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Lab Number: L1957339

Client: Anchor QEA, LLC

ATTN: Delaney Peterson

Project Name: GASCO PDI

Project Number: 000029-02.59

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Sample Delivery Group Information



Sample Delivery Group Summary

Alpha Job Number : L1957339

Received : 27-NOV-2019

Reviewer : Alana Riggs

Account Name : Anchor QEA, LLC

Project Number : 000029-02.59

Project Name : GASCO PDI

Delivery Information

Samples Delivered By : Express Ship
FedEx (7770 7713 9151, 7770 7713 9140)

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	3.4	
B	Absent/	Ice	0.8	

Condition Information

- 1) All samples on COC received? **YES**
- 2) Extra samples received? **NO**
- 3) Are there any sample container discrepancies? **NO**
- 4) Are there any discrepancies between sample labels & COC? **NO**
- 5) Are samples in appropriate containers for requested analysis? **YES**
- 6) Are samples properly preserved for requested analysis? **YES**
- 7) Are samples within holding time for requested analysis? **YES**
- 8) All sampling equipment returned? **NA**

Volatile Organics/VPH

- 1) Reagent Water Vials Frozen by Client? **NA**

LIMS Chain of Custody

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Dec 17 2019, 01:52 pm

Login Number: L1957339

Account: ANCHOR Anchor QEA, LLCProject: 000029-02.59

Received: 27NOV19 Due Date: 13DEC19

Sample #	Client ID	Mat PR	Collected
L1957339-01	PDI-FB-1911191346	1	S0 19NOV19 13:46
Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery Report to the MDL; Full Narration needed OK to proceed OOH for HERB per Client DPKG-FULL Package Due Date: 12/13/19			
DPKG-FULL,HERB-8151			
L1957339-02	PDI-RB-1911191254	1	S0 19NOV19 12:54
Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery Report to the MDL; Full Narration needed OK to proceed OOH for HERB per Client Package Due Date: 12/13/19			
HERB-8151			
L1957339-03	PDI-1138RAB-00-10-191118	3	S0 18NOV19 00:00
Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery Report to the MDL; Full Narration needed Package Due Date: 12/13/19			
HERB-8151,PERC-6860,TS			
L1957339-04	PDI-138RAB-00-10-191118	3	S0 18NOV19 11:40
Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery Report to the MDL; Full Narration needed Package Due Date: 12/13/19			
HERB-8151,PERC-6860,TS			
L1957339-05	PDI-138RAB-10-19.1-191118	3	S0 18NOV19 12:40
Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery Report to the MDL; Full Narration needed Package Due Date: 12/13/19			
HERB-8151,PERC-6860,TS			

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Dec 17 2019, 01:52 pm

Login Number: L1957339

Account: ANCHOR Anchor QEA, LLCProject: 000029-02.59

Received: 27NOV19 Due Date: 13DEC19

Sample #	Client ID	Mat PR Collected
L1957339-06	PDI-138RAB-C-00-19.1-191118	3 S0 18NOV19 13:15
Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery Report to the MDL; Full Narration needed PREPC: TCLP for Herb Package Due Date: 12/13/19		
HERB-TCLP*, IGNIT-1030, PH-9045, PREPC, TS		
L1957339-07	PDI-139RAB-00-10-191115	3 S0 15NOV19 12:40
Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery Report to the MDL; Full Narration needed Package Due Date: 12/13/19		
HERB-8151, PERC-6860, TS		
L1957339-08	PDI-139RAB-10-20-191115	3 S0 15NOV19 14:40
Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery Report to the MDL; Full Narration needed Package Due Date: 12/13/19		
HERB-8151, PERC-6860, TS		
L1957339-09	PDI-139RAB-20-25.5-191118	3 S0 18NOV19 08:30
Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery Report to the MDL; Full Narration needed Package Due Date: 12/13/19		
HERB-8151, PERC-6860, TS		
L1957339-10	PDI-144RAB-C-00-29-191114	3 S0 14NOV19 16:00
Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery Report to the MDL; Full Narration needed PREPC: TCLP for Herb Package Due Date: 12/13/19		
HERB-TCLP*, IGNIT-1030, PH-9045, PREPC, TS		
L1957339-11	PDI-145RAB-00-10-191114	3 S0 14NOV19 09:15
Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery Report to the MDL; Full Narration needed L1957339-11 MS L1957339-11 MSD Package Due Date: 12/13/19		

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Dec 17 2019, 01:52 pm

Login Number: L1957339

Account: ANCHOR Anchor QEA, LLCProject: 000029-02.59

Received: 27NOV19 Due Date: 13DEC19

Sample #	Client ID	Mat PR Collected
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HERB-8151,MS/MSD,PERC-6860,TS

L1957339-12 PDI-145RAB-10-20-191114 3 S0 14NOV19 10:30
Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery
Report to the MDL; Full Narration needed Package Due Date: 12/13/19

HERB-8151,PERC-6860,TS

L1957339-13 PDI-145RAB-20-24.7-191114 3 S0 14NOV19 11:05
Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery
Report to the MDL; Full Narration needed Package Due Date: 12/13/19

HERB-8151,PERC-6860,TS

L1957339-14 PDI-134RAB-00-10-191120 3 S0 20NOV19 14:45
Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery
Report to the MDL; Full Narration needed Package Due Date: 12/13/19

HERB-8151,PERC-6860,TS

L1957339-15 PDI-134RAB-10-20-191120 3 S0 20NOV19 15:30
Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery
Report to the MDL; Full Narration needed Package Due Date: 12/13/19

HERB-8151,PERC-6860,TS

L1957339-16 PDI-134RAB-20-25.5-191120 3 S0 20NOV19 15:55
Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery
Report to the MDL; Full Narration needed Package Due Date: 12/13/19

HERB-8151,PERC-6860,TS

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Dec 17 2019, 01:52 pm

Login Number: L1957339

Account: ANCHOR Anchor QEA, LLCProject: 000029-02.59

Received: 27NOV19 Due Date: 13DEC19

Sample #	Client ID	Mat PR Collected
L1957339-17	PDI-134RAB-C-00-25.5-191120	3 S0 20NOV19 16:15
Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery Report to the MDL; Full Narration needed PREPC: TCLP for Herb Package Due Date: 12/13/19		
HERB-TCLP*, IGNIT-1030, PH-9045, PREPC, TS		
L1957339-18	PDI-135RAB-00-10-191120	3 S0 20NOV19 09:20
Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery Report to the MDL; Full Narration needed Package Due Date: 12/13/19		
HERB-8151, PERC-6860, TS		
L1957339-19	PDI-135RAB-10-20-191120	3 S0 20NOV19 09:55
Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery Report to the MDL; Full Narration needed L1957339-19 MS L1957339-19 MSD Package Due Date: 12/13/19		
HERB-8151, MS/MSD, PERC-6860, TS		
L1957339-20	PDI-135RAB-20-26.2-191120	3 S0 20NOV19 11:00
Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery Report to the MDL; Full Narration needed Package Due Date: 12/13/19		
HERB-8151, PERC-6860, TS		
L1957339-21	PDI-136RAB-00-10-191119	3 S0 19NOV19 09:20
Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery Report to the MDL; Full Narration needed Package Due Date: 12/13/19		
HERB-8151, PERC-6860, TS		
L1957339-22	PDI-136RAB-10-13.4-191119	3 S0 19NOV19 10:00
Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery Report to the MDL; Full Narration needed Package Due Date: 12/13/19		

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Dec 17 2019, 01:52 pm

Login Number: L1957339

Account: ANCHOR Anchor QEA, LLCProject: 000029-02.59

Received: 27NOV19 Due Date: 13DEC19

Sample #	Client ID	Mat PR Collected
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HERB-8151,PERC-6860,TS

L1957339-23 PDI-136RAB-C-00-13.4-191119 3 S0 19NOV19 10:30
Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery
Report to the MDL; Full Narration needed PREPC: TCLP for Herb Package Due Date: 12/13/19

HERB-TCLP*,IGNIT-1030,PH-9045,PREPC,TS

L1957339-24 PDI-137RAB-00-10-191119 3 S0 19NOV19 12:15
Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery
Report to the MDL; Full Narration needed Package Due Date: 12/13/19

HERB-8151,PERC-6860,TS

L1957339-25 PDI-137RAB-10-17.7-191119 3 S0 19NOV19 12:50
Surrogates are to be reported for all Dilutions, if the surrogates are diluted out, report 0% recovery
Report to the MDL; Full Narration needed Package Due Date: 12/13/19

HERB-8151,PERC-6860,TS

Container Tracking

ALPHA ANALYTICAL LABORATORIES
Container Tracking Report

Container ID Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1957339-01A Amber-A1	EMPTY	28-NOV-19		ORGPREP	Armia Rashed	CUSTODY	CUSTODY	Armia Rashed
L1957339-01A Amber-A1	INTACT	28-NOV-19		R66-06 CUSTODY	Armia Rashed	ORGPREP	ORGPREP	Armia Rashed
L1957339-01A Amber-A1	INTACT	28-NOV-19		ORGPREP	Samy Dakkash	R66-06 CUSTODY	R66-06 CUSTODY	Samy Dakkash
L1957339-01A Amber-A1	INTACT	28-NOV-19	CUSTODY	CUSTODY	Tarcisio Nascimento	ORGPREP	ORGPREP	Tarcisio Nascimento
L1957339-01A Amber-A1	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs
L1957339-01B Amber-A1	INTACT	13-DEC-19	CUSTODY	R51-05 CUSTODY	Phillip Renaud	R51-10 CUSTODY	R51-10 CUSTODY	Phillip Renaud
L1957339-01B Amber-A1	INTACT	11-DEC-19	CUSTODY	R51-04 CUSTODY	Geoffry Grace	R51-05 CUSTODY	R51-05 CUSTODY	Geoffry Grace
L1957339-01B Amber-A1	INTACT	28-NOV-19		ORGPREP	George Nantwi	R51-04 CUSTODY	R51-04 CUSTODY	George Nantwi
L1957339-01B Amber-A1	INTACT	28-NOV-19		R66-06 CUSTODY	George Nantwi	ORGPREP	ORGPREP	George Nantwi
L1957339-01B Amber-A1	INTACT	28-NOV-19		ORGPREP	Samy Dakkash	R66-06 CUSTODY	R66-06 CUSTODY	Samy Dakkash
L1957339-01B Amber-A1	INTACT	28-NOV-19	CUSTODY	CUSTODY	Tarcisio Nascimento	ORGPREP	ORGPREP	Tarcisio Nascimento
L1957339-01B Amber-A1	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs
L1957339-02A Amber-A1	INTACT	28-NOV-19		ORGPREP	Armia Rashed	CUSTODY	CUSTODY	Armia Rashed
L1957339-02A Amber-A1	INTACT	28-NOV-19		R66-06 CUSTODY	Armia Rashed	ORGPREP	ORGPREP	Armia Rashed
L1957339-02A Amber-A1	INTACT	28-NOV-19		ORGPREP	Samy Dakkash	R66-06 CUSTODY	R66-06 CUSTODY	Samy Dakkash
L1957339-02A Amber-A1	INTACT	28-NOV-19	CUSTODY	CUSTODY	Tarcisio Nascimento	ORGPREP	ORGPREP	Tarcisio Nascimento
L1957339-02A Amber-A1	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs
L1957339-02B Amber-A1	INTACT	28-NOV-19		ORGPREP	George Nantwi	R51-04 CUSTODY	R51-04 CUSTODY	George Nantwi
L1957339-02B Amber-A1	INTACT	28-NOV-19		R66-06 CUSTODY	George Nantwi	ORGPREP	ORGPREP	George Nantwi
L1957339-02B Amber-A1	INTACT	28-NOV-19		ORGPREP	Samy Dakkash	R66-06 CUSTODY	R66-06 CUSTODY	Samy Dakkash
L1957339-02B Amber-A1	INTACT	28-NOV-19	CUSTODY	CUSTODY	Tarcisio Nascimento	ORGPREP	ORGPREP	Tarcisio Nascimento
L1957339-02B Amber-A1	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs
L1957339-03A Glass-A.25	INTACT	13-DEC-19	CUSTODY	W10-S5-B CUSTODY	Anthony Moriondo	R-46 CUSTODY	R-46 CUSTODY	Anthony Moriondo
L1957339-03A Glass-A.25	INTACT	29-NOV-19	CUSTODY	RETURN WALK-IN CUSTODY	Vincent Y Balestrier	W10-S5-B CUSTODY	W10-S5-B CUSTODY	Vincent Y Balestrier
L1957339-03A Glass-A.25	INTACT	29-NOV-19	CUSTODY	ORGPREP	Shadrack Quayson	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Shadrack Quayson

Container ID	Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1957339-03A	Glass-A.25	INTACT	28-NOV-19		RETURN WALK-IN	CUSTODY Samy Dakkash	ORGPREP	ORGPREP	Samy Dakkash
L1957339-03A	Glass-A.25	INTACT	28-NOV-19		LOGIN	Yaw Attobrah	RETURN WALK-IN	CUSTODY RETURN WALK-IN	CUSTODY Yaw Attobrah
L1957339-03A	Glass-A.25	INTACT	28-NOV-19		CUSTODY	Wendy Morency	LOGIN	LOGIN	Wendy Morency
L1957339-03A	Glass-A.25	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs
L1957339-04A	Glass-A.25	INTACT	13-DEC-19	CUSTODY	W9-S2-C	CUSTODY Anthony Moriondo	R-46 CUSTODY	R-46 CUSTODY	Anthony Moriondo
L1957339-04A	Glass-A.25	INTACT	29-NOV-19	CUSTODY	RETURN WALK-IN	CUSTODY Vincent Y Balestrier	W9-S2-C	CUSTODY W9-S2-C	CUSTODY Vincent Y Balestrier
L1957339-04A	Glass-A.25	INTACT	29-NOV-19	CUSTODY	ORGPREP	Shadrack Quayson	RETURN WALK-IN	CUSTODY RETURN WALK-IN	CUSTODY Shadrack Quayson
L1957339-04A	Glass-A.25	INTACT	28-NOV-19		RETURN WALK-IN	CUSTODY Samy Dakkash	ORGPREP	ORGPREP	Samy Dakkash
L1957339-04A	Glass-A.25	INTACT	28-NOV-19		LOGIN	Yaw Attobrah	RETURN WALK-IN	CUSTODY RETURN WALK-IN	CUSTODY Yaw Attobrah
L1957339-04A	Glass-A.25	INTACT	28-NOV-19		CUSTODY	Wendy Morency	LOGIN	LOGIN	Wendy Morency
L1957339-04A	Glass-A.25	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs
L1957339-05A	Glass-A.25	INTACT	13-DEC-19	CUSTODY	W10-S5-B	CUSTODY Anthony Moriondo	R-46 CUSTODY	R-46 CUSTODY	Anthony Moriondo
L1957339-05A	Glass-A.25	INTACT	29-NOV-19	CUSTODY	RETURN WALK-IN	CUSTODY Vincent Y Balestrier	W10-S5-B	CUSTODY W10-S5-B	CUSTODY Vincent Y Balestrier
L1957339-05A	Glass-A.25	INTACT	29-NOV-19	CUSTODY	ORGPREP	Shadrack Quayson	RETURN WALK-IN	CUSTODY RETURN WALK-IN	CUSTODY Shadrack Quayson
L1957339-05A	Glass-A.25	INTACT	28-NOV-19		RETURN WALK-IN	CUSTODY Samy Dakkash	ORGPREP	ORGPREP	Samy Dakkash
L1957339-05A	Glass-A.25	INTACT	28-NOV-19		LOGIN	Yaw Attobrah	RETURN WALK-IN	CUSTODY RETURN WALK-IN	CUSTODY Yaw Attobrah
L1957339-05A	Glass-A.25	INTACT	28-NOV-19		CUSTODY	Wendy Morency	LOGIN	LOGIN	Wendy Morency
L1957339-05A	Glass-A.25	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs
L1957339-06A	Glass-A.5	INTACT	05-DEC-19	CUSTODY	W21-S2-D	CUSTODY Geoffrey Grace	W21-S4-D	CUSTODY W21-S4-D	CUSTODY Geoffrey Grace
L1957339-06A	Glass-A.5	INTACT	02-DEC-19	CUSTODY	RETURN WALK-IN	CUSTODY Vincent Y Balestrier	W21-S2-D	CUSTODY W21-S2-D	CUSTODY Vincent Y Balestrier
L1957339-06A	Glass-A.5	INTACT	02-DEC-19	CUSTODY	RETURN WALK-IN	CUSTODY Mitchell Vonachen	RETURN WALK-IN	CUSTODY RETURN WALK-IN	CUSTODY Mitchell Vonachen
L1957339-06A	Glass-A.5	INTACT	30-NOV-19		ORGPREP	Lily Frimpong	RETURN WALK-IN	CUSTODY RETURN WALK-IN	CUSTODY Lily Frimpong
L1957339-06A	Glass-A.5	INTACT	30-NOV-19		W20-S4-C	CUSTODY Lily Frimpong	ORGPREP	ORGPREP	Lily Frimpong
L1957339-06A	Glass-A.5	INTACT	29-NOV-19	CUSTODY	RETURN WALK-IN	CUSTODY Vincent Y Balestrier	W20-S4-C	CUSTODY W20-S4-C	CUSTODY Vincent Y Balestrier
L1957339-06A	Glass-A.5	INTACT	28-NOV-19	CUSTODY	WETCHEM	Julia Maynard	RETURN WALK-IN	CUSTODY RETURN WALK-IN	CUSTODY Julia Maynard

Container ID	Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1957339-06A	Glass-A.5	INTACT	28-NOV-19	CUSTODY	RETURN WALK-IN	CUSTODY Julia Maynard	WETCHEM	WETCHEM	Julia Maynard
L1957339-06A	Glass-A.5	INTACT	28-NOV-19		LOGIN	Yaw Attobrah	RETURN WALK-IN	CUSTODY	RETURN WALK-IN CUSTODY Yaw Attobrah
L1957339-06A	Glass-A.5	INTACT	28-NOV-19		CUSTODY	Wendy Morency	LOGIN	LOGIN	Wendy Morency
L1957339-06A	Glass-A.5	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs
L1957339-06W	EAmber-A1	INTACT	04-DEC-19		ORGPREP	Jessica Westover	R66-01 CUSTODY	R66-01 CUSTODY	Jessica Westover
L1957339-06W	EAmber-A1	INTACT	04-DEC-19		R66-06 CUSTODY	Samy Dakkash	ORGPREP	ORGPREP	Samy Dakkash
L1957339-06W	EAmber-A1	INTACT	02-DEC-19		ORGPREP	John Pierce	R66-06 CUSTODY	R66-06 CUSTODY	John Pierce
L1957339-06W	EAmber-A1	INTACT	02-DEC-19		CUSTODY	John Pierce	ORGPREP	ORGPREP	John Pierce
L1957339-06W	EAmber-A1	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs
L1957339-07A	Glass-A.25	INTACT	13-DEC-19	CUSTODY	W10-S5-B CUSTODY	Anthony Moriondo	R-46 CUSTODY	R-46 CUSTODY	Anthony Moriondo
L1957339-07A	Glass-A.25	INTACT	29-NOV-19	CUSTODY	RETURN WALK-IN	CUSTODY Vincent Y Balestrier	W10-S5-B CUSTODY	W10-S5-B CUSTODY	Vincent Y Balestrier
L1957339-07A	Glass-A.25	INTACT	29-NOV-19	CUSTODY	ORGPREP	Shadrack Quayson	RETURN WALK-IN	CUSTODY	RETURN WALK-IN CUSTODY Shadrack Quayson
L1957339-07A	Glass-A.25	INTACT	28-NOV-19	CUSTODY	RETURN WALK-IN	CUSTODY George Nantwi	ORGPREP	ORGPREP	George Nantwi
L1957339-07A	Glass-A.25	INTACT	28-NOV-19	CUSTODY	RETURN WALK-IN	CUSTODY George Nantwi	RETURN WALK-IN	CUSTODY	RETURN WALK-IN CUSTODY George Nantwi
L1957339-07A	Glass-A.25	INTACT	28-NOV-19		LOGIN	Yaw Attobrah	RETURN WALK-IN	CUSTODY	RETURN WALK-IN CUSTODY Yaw Attobrah
L1957339-07A	Glass-A.25	INTACT	28-NOV-19		CUSTODY	Wendy Morency	LOGIN	LOGIN	Wendy Morency
L1957339-07A	Glass-A.25	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs
L1957339-08A	Glass-A.25	INTACT	13-DEC-19	CUSTODY	W10-S5-B CUSTODY	Anthony Moriondo	R-46 CUSTODY	R-46 CUSTODY	Anthony Moriondo
L1957339-08A	Glass-A.25	INTACT	29-NOV-19	CUSTODY	RETURN WALK-IN	CUSTODY Vincent Y Balestrier	W10-S5-B CUSTODY	W10-S5-B CUSTODY	Vincent Y Balestrier
L1957339-08A	Glass-A.25	INTACT	29-NOV-19	CUSTODY	ORGPREP	Shadrack Quayson	RETURN WALK-IN	CUSTODY	RETURN WALK-IN CUSTODY Shadrack Quayson
L1957339-08A	Glass-A.25	INTACT	28-NOV-19	CUSTODY	RETURN WALK-IN	CUSTODY George Nantwi	ORGPREP	ORGPREP	George Nantwi
L1957339-08A	Glass-A.25	INTACT	28-NOV-19	CUSTODY	RETURN WALK-IN	CUSTODY George Nantwi	RETURN WALK-IN	CUSTODY	RETURN WALK-IN CUSTODY George Nantwi
L1957339-08A	Glass-A.25	INTACT	28-NOV-19		LOGIN	Yaw Attobrah	RETURN WALK-IN	CUSTODY	RETURN WALK-IN CUSTODY Yaw Attobrah
L1957339-08A	Glass-A.25	INTACT	28-NOV-19		CUSTODY	Wendy Morency	LOGIN	LOGIN	Wendy Morency
L1957339-08A	Glass-A.25	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs

Container ID	Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1957339-09A	Glass-A.25	INTACT	13-DEC-19	CUSTODY	W10-S2-B CUSTODY	Anthony Moriondo	R-46 CUSTODY	R-46 CUSTODY	Anthony Moriondo
L1957339-09A	Glass-A.25	INTACT	02-DEC-19	CUSTODY	RETURN WALK-IN CUSTODY	Vincent Y Balestrier	W10-S2-B CUSTODY	W10-S2-B CUSTODY	Vincent Y Balestrier
L1957339-09A	Glass-A.25	INTACT	01-DEC-19		ORGPREP	Armia Rashed	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Armia Rashed
L1957339-09A	Glass-A.25	INTACT	01-DEC-19		W8-S5-D CUSTODY	Armia Rashed	ORGPREP	ORGPREP	Armia Rashed
L1957339-09A	Glass-A.25	INTACT	29-NOV-19	CUSTODY	RETURN WALK-IN CUSTODY	Vincent Y Balestrier	W8-S5-D CUSTODY	W8-S5-D CUSTODY	Vincent Y Balestrier
L1957339-09A	Glass-A.25	INTACT	28-NOV-19		LOGIN	Yaw Attobrah	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Yaw Attobrah
L1957339-09A	Glass-A.25	INTACT	28-NOV-19		CUSTODY	Wendy Morency	LOGIN	LOGIN	Wendy Morency
L1957339-09A	Glass-A.25	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs
L1957339-10A	Glass-A.5	INTACT	05-DEC-19	CUSTODY	W21-S2-D CUSTODY	Geoffry Grace	W21-S4-D CUSTODY	W21-S4-D CUSTODY	Geoffry Grace
L1957339-10A	Glass-A.5	INTACT	02-DEC-19	CUSTODY	RETURN WALK-IN CUSTODY	Vincent Y Balestrier	W21-S2-D CUSTODY	W21-S2-D CUSTODY	Vincent Y Balestrier
L1957339-10A	Glass-A.5	INTACT	02-DEC-19	CUSTODY	RETURN WALK-IN CUSTODY	Mitchell Vonachen	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Mitchell Vonachen
L1957339-10A	Glass-A.5	INTACT	30-NOV-19		ORGPREP	Lily Frimpong	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Lily Frimpong
L1957339-10A	Glass-A.5	INTACT	30-NOV-19		WALK-IN CUSTODY	Lily Frimpong	ORGPREP	ORGPREP	Lily Frimpong
L1957339-10A	Glass-A.5	INTACT	29-NOV-19	CUSTODY	RETURN WALK-IN CUSTODY	Vincent Y Balestrier	WALK-IN CUSTODY	WALK-IN CUSTODY	Vincent Y Balestrier
L1957339-10A	Glass-A.5	INTACT	28-NOV-19	CUSTODY	WETCHEM	Julia Maynard	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Julia Maynard
L1957339-10A	Glass-A.5	INTACT	28-NOV-19	CUSTODY	RETURN WALK-IN CUSTODY	Julia Maynard	WETCHEM	WETCHEM	Julia Maynard
L1957339-10A	Glass-A.5	INTACT	28-NOV-19		LOGIN	Yaw Attobrah	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Yaw Attobrah
L1957339-10A	Glass-A.5	INTACT	28-NOV-19		CUSTODY	Wendy Morency	LOGIN	LOGIN	Wendy Morency
L1957339-10A	Glass-A.5	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs
L1957339-10W	EAmber-A1	INTACT	04-DEC-19		ORGPREP	Jessica Westover	R66-01 CUSTODY	R66-01 CUSTODY	Jessica Westover
L1957339-10W	EAmber-A1	INTACT	04-DEC-19		R66-06 CUSTODY	Samy Dakkash	ORGPREP	ORGPREP	Samy Dakkash
L1957339-10W	EAmber-A1	INTACT	02-DEC-19		ORGPREP	John Pierce	R66-06 CUSTODY	R66-06 CUSTODY	John Pierce
L1957339-10W	EAmber-A1	INTACT	02-DEC-19		CUSTODY	John Pierce	ORGPREP	ORGPREP	John Pierce
L1957339-10W	EAmber-A1	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs
L1957339-11A	Glass-A.25	INTACT	02-DEC-19	CUSTODY	W12-S3-A CUSTODY	Vincent Y Balestrier	W12-S2-A CUSTODY	W12-S2-A CUSTODY	Vincent Y Balestrier

Container ID	Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1957339-11A	Glass-A.25	INTACT	28-NOV-19	CUSTODY	CUSTODY	Yvan Contreras	W12-S3-A CUSTODY	W12-S3-A CUSTODY	Yvan Contreras
L1957339-11A	Glass-A.25	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs
L1957339-11B	Glass-A.25	INTACT	13-DEC-19	CUSTODY	W10-S5-B CUSTODY	Anthony Moriondo	R-46 CUSTODY	R-46 CUSTODY	Anthony Moriondo
L1957339-11B	Glass-A.25	INTACT	29-NOV-19	CUSTODY	RETURN WALK-IN CUSTODY	Vincent Y Balestrier	W10-S5-B CUSTODY	W10-S5-B CUSTODY	Vincent Y Balestrier
L1957339-11B	Glass-A.25	INTACT	29-NOV-19	CUSTODY	ORGPREP	Shadrack Quayson	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Shadrack Quayson
L1957339-11B	Glass-A.25	INTACT	28-NOV-19	RETURN WALK-IN CUSTODY	Samy Dakkash	ORGPREP	ORGPREP	ORGPREP	Samy Dakkash
L1957339-11B	Glass-A.25	INTACT	28-NOV-19	LOGIN	LOGIN	Yaw Attobrah	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Yaw Attobrah
L1957339-11B	Glass-A.25	INTACT	28-NOV-19	CUSTODY	Wendy Morency	LOGIN	LOGIN	LOGIN	Wendy Morency
L1957339-11B	Glass-A.25	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs
L1957339-12A	Glass-A.25	INTACT	13-DEC-19	CUSTODY	W9-S2-C CUSTODY	Anthony Moriondo	R-46 CUSTODY	R-46 CUSTODY	Anthony Moriondo
L1957339-12A	Glass-A.25	INTACT	29-NOV-19	CUSTODY	RETURN WALK-IN CUSTODY	Vincent Y Balestrier	W9-S2-C CUSTODY	W9-S2-C CUSTODY	Vincent Y Balestrier
L1957339-12A	Glass-A.25	INTACT	29-NOV-19	CUSTODY	ORGPREP	Shadrack Quayson	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Shadrack Quayson
L1957339-12A	Glass-A.25	INTACT	28-NOV-19	RETURN WALK-IN CUSTODY	Samy Dakkash	ORGPREP	ORGPREP	ORGPREP	Samy Dakkash
L1957339-12A	Glass-A.25	INTACT	28-NOV-19	LOGIN	LOGIN	Yaw Attobrah	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Yaw Attobrah
L1957339-12A	Glass-A.25	INTACT	28-NOV-19	CUSTODY	Wendy Morency	LOGIN	LOGIN	LOGIN	Wendy Morency
L1957339-12A	Glass-A.25	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs
L1957339-13A	Glass-A.25	INTACT	13-DEC-19	CUSTODY	W9-S2-C CUSTODY	Anthony Moriondo	R-46 CUSTODY	R-46 CUSTODY	Anthony Moriondo
L1957339-13A	Glass-A.25	INTACT	29-NOV-19	CUSTODY	RETURN WALK-IN CUSTODY	Vincent Y Balestrier	W9-S2-C CUSTODY	W9-S2-C CUSTODY	Vincent Y Balestrier
L1957339-13A	Glass-A.25	INTACT	29-NOV-19	CUSTODY	ORGPREP	Shadrack Quayson	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Shadrack Quayson
L1957339-13A	Glass-A.25	INTACT	28-NOV-19	RETURN WALK-IN CUSTODY	Samy Dakkash	ORGPREP	ORGPREP	ORGPREP	Samy Dakkash
L1957339-13A	Glass-A.25	INTACT	28-NOV-19	LOGIN	LOGIN	Yaw Attobrah	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Yaw Attobrah
L1957339-13A	Glass-A.25	INTACT	28-NOV-19	CUSTODY	Wendy Morency	LOGIN	LOGIN	LOGIN	Wendy Morency
L1957339-13A	Glass-A.25	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs
L1957339-14A	Glass-A.25	INTACT	13-DEC-19	CUSTODY	W9-S5-A CUSTODY	Anthony Moriondo	R-46 CUSTODY	R-46 CUSTODY	Anthony Moriondo
L1957339-14A	Glass-A.25	INTACT	04-DEC-19	CUSTODY	RETURN WALK-IN CUSTODY	Vincent Y Balestrier	W9-S5-A CUSTODY	W9-S5-A CUSTODY	Vincent Y Balestrier

Container ID	Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1957339-14A	Glass-A.25	INTACT	03-DEC-19		ORGPREP	George Nantwi	RETURN WALK-IN	CUSTODY	RETURN WALK-IN CUSTODY George Nantwi
L1957339-14A	Glass-A.25	INTACT	03-DEC-19		W8-S5-D CUSTODY	George Nantwi	ORGPREP	ORGPREP	George Nantwi
L1957339-14A	Glass-A.25	INTACT	29-NOV-19	CUSTODY	RETURN WALK-IN	CUSTODY Vincent Y Balestrier	W8-S5-D CUSTODY	W8-S5-D CUSTODY	Vincent Y Balestrier
L1957339-14A	Glass-A.25	INTACT	28-NOV-19		LOGIN	Yaw Attobrah	RETURN WALK-IN	CUSTODY	RETURN WALK-IN CUSTODY Yaw Attobrah
L1957339-14A	Glass-A.25	INTACT	28-NOV-19		CUSTODY	Wendy Morency	LOGIN	LOGIN	Wendy Morency
L1957339-14A	Glass-A.25	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs
L1957339-15A	Glass-A.25	INTACT	13-DEC-19	CUSTODY	W9-S5-A CUSTODY	Anthony Moriondo	R-46 CUSTODY	R-46 CUSTODY	Anthony Moriondo
L1957339-15A	Glass-A.25	INTACT	04-DEC-19	CUSTODY	RETURN WALK-IN	CUSTODY Vincent Y Balestrier	W9-S5-A CUSTODY	W9-S5-A CUSTODY	Vincent Y Balestrier
L1957339-15A	Glass-A.25	INTACT	03-DEC-19		ORGPREP	George Nantwi	RETURN WALK-IN	CUSTODY	RETURN WALK-IN CUSTODY George Nantwi
L1957339-15A	Glass-A.25	INTACT	03-DEC-19		W8-S5-D CUSTODY	George Nantwi	ORGPREP	ORGPREP	George Nantwi
L1957339-15A	Glass-A.25	INTACT	29-NOV-19	CUSTODY	RETURN WALK-IN	CUSTODY Vincent Y Balestrier	W8-S5-D CUSTODY	W8-S5-D CUSTODY	Vincent Y Balestrier
L1957339-15A	Glass-A.25	INTACT	28-NOV-19		LOGIN	Yaw Attobrah	RETURN WALK-IN	CUSTODY	RETURN WALK-IN CUSTODY Yaw Attobrah
L1957339-15A	Glass-A.25	INTACT	28-NOV-19		CUSTODY	Wendy Morency	LOGIN	LOGIN	Wendy Morency
L1957339-15A	Glass-A.25	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs
L1957339-16A	Glass-A.25	INTACT	13-DEC-19	CUSTODY	W9-S5-A CUSTODY	Anthony Moriondo	R-46 CUSTODY	R-46 CUSTODY	Anthony Moriondo
L1957339-16A	Glass-A.25	INTACT	04-DEC-19	CUSTODY	RETURN WALK-IN	CUSTODY Vincent Y Balestrier	W9-S5-A CUSTODY	W9-S5-A CUSTODY	Vincent Y Balestrier
L1957339-16A	Glass-A.25	INTACT	03-DEC-19		ORGPREP	George Nantwi	RETURN WALK-IN	CUSTODY	RETURN WALK-IN CUSTODY George Nantwi
L1957339-16A	Glass-A.25	INTACT	03-DEC-19		W8-S5-C CUSTODY	George Nantwi	ORGPREP	ORGPREP	George Nantwi
L1957339-16A	Glass-A.25	INTACT	29-NOV-19	CUSTODY	RETURN WALK-IN	CUSTODY Vincent Y Balestrier	W8-S5-C CUSTODY	W8-S5-C CUSTODY	Vincent Y Balestrier
L1957339-16A	Glass-A.25	INTACT	28-NOV-19		LOGIN	Yaw Attobrah	RETURN WALK-IN	CUSTODY	RETURN WALK-IN CUSTODY Yaw Attobrah
L1957339-16A	Glass-A.25	INTACT	28-NOV-19		CUSTODY	Wendy Morency	LOGIN	LOGIN	Wendy Morency
L1957339-16A	Glass-A.25	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs
L1957339-17A	Glass-A.5	INTACT	05-DEC-19	CUSTODY	W21-S2-D CUSTODY	Geoffry Grace	W21-S4-D CUSTODY	W21-S4-D CUSTODY	Geoffry Grace
L1957339-17A	Glass-A.5	INTACT	02-DEC-19	CUSTODY	RETURN WALK-IN	CUSTODY Vincent Y Balestrier	W21-S2-D CUSTODY	W21-S2-D CUSTODY	Vincent Y Balestrier
L1957339-17A	Glass-A.5	INTACT	02-DEC-19	CUSTODY	RETURN WALK-IN	CUSTODY Mitchell Vonachen	RETURN WALK-IN	CUSTODY	RETURN WALK-IN CUSTODY Mitchell Vonachen

Container ID	Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1957339-17A	Glass-A.5	INTACT	30-NOV-19		ORGPREP	Lily Frimpong	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Lily Frimpong
L1957339-17A	Glass-A.5	INTACT	30-NOV-19		W20-S4-C CUSTODY	Lily Frimpong	ORGPREP	ORGPREP	Lily Frimpong
L1957339-17A	Glass-A.5	INTACT	29-NOV-19	CUSTODY	RETURN WALK-IN CUSTODY	Vincent Y Balestrier	W20-S4-C CUSTODY	W20-S4-C CUSTODY	Vincent Y Balestrier
L1957339-17A	Glass-A.5	INTACT	28-NOV-19	CUSTODY	WETCHEM	Julia Maynard	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Julia Maynard
L1957339-17A	Glass-A.5	INTACT	28-NOV-19	CUSTODY	RETURN WALK-IN CUSTODY	Julia Maynard	WETCHEM	WETCHEM	Julia Maynard
L1957339-17A	Glass-A.5	INTACT	28-NOV-19		LOGIN	Yaw Attobrah	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Yaw Attobrah
L1957339-17A	Glass-A.5	INTACT	28-NOV-19		CUSTODY	Wendy Morency	LOGIN	LOGIN	Wendy Morency
L1957339-17A	Glass-A.5	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs
L1957339-17W	EAmber-A1	INTACT	04-DEC-19		ORGPREP	Jessica Westover	R66-01 CUSTODY	R66-01 CUSTODY	Jessica Westover
L1957339-17W	EAmber-A1	INTACT	04-DEC-19		R66-06 CUSTODY	Samy Dakkash	ORGPREP	ORGPREP	Samy Dakkash
L1957339-17W	EAmber-A1	INTACT	02-DEC-19		ORGPREP	John Pierce	R66-06 CUSTODY	R66-06 CUSTODY	John Pierce
L1957339-17W	EAmber-A1	INTACT	02-DEC-19		CUSTODY	John Pierce	ORGPREP	ORGPREP	John Pierce
L1957339-17W	EAmber-A1	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs
L1957339-18A	Glass-A.25	INTACT	13-DEC-19	CUSTODY	W10-S2-B CUSTODY	Anthony Moriondo	R-46 CUSTODY	R-46 CUSTODY	Anthony Moriondo
L1957339-18A	Glass-A.25	INTACT	02-DEC-19	CUSTODY	RETURN WALK-IN CUSTODY	Vincent Y Balestrier	W10-S2-B CUSTODY	W10-S2-B CUSTODY	Vincent Y Balestrier
L1957339-18A	Glass-A.25	INTACT	01-DEC-19		ORGPREP	Armia Rashed	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Armia Rashed
L1957339-18A	Glass-A.25	INTACT	01-DEC-19		W8-S5-D CUSTODY	Armia Rashed	ORGPREP	ORGPREP	Armia Rashed
L1957339-18A	Glass-A.25	INTACT	29-NOV-19	CUSTODY	RETURN WALK-IN CUSTODY	Vincent Y Balestrier	W8-S5-D CUSTODY	W8-S5-D CUSTODY	Vincent Y Balestrier
L1957339-18A	Glass-A.25	INTACT	28-NOV-19		LOGIN	Yaw Attobrah	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Yaw Attobrah
L1957339-18A	Glass-A.25	INTACT	28-NOV-19		CUSTODY	Wendy Morency	LOGIN	LOGIN	Wendy Morency
L1957339-18A	Glass-A.25	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs
L1957339-19A	Glass-A.25	INTACT	02-DEC-19	CUSTODY	W12-S3-A CUSTODY	Vincent Y Balestrier	W12-S2-A CUSTODY	W12-S2-A CUSTODY	Vincent Y Balestrier
L1957339-19A	Glass-A.25	INTACT	28-NOV-19	CUSTODY	CUSTODY	Yvan Contreras	W12-S3-A CUSTODY	W12-S3-A CUSTODY	Yvan Contreras
L1957339-19A	Glass-A.25	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs
L1957339-19B	Glass-A.25	INTACT	13-DEC-19	CUSTODY	W10-S2-B CUSTODY	Anthony Moriondo	R-46 CUSTODY	R-46 CUSTODY	Anthony Moriondo

Container ID	Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1957339-19B	Glass-A.25	INTACT	02-DEC-19	CUSTODY	RETURN WALK-IN	CUSTODY Vincent Y Balestrier	W10-S2-B	CUSTODY W10-S2-B	CUSTODY Vincent Y Balestrier
L1957339-19B	Glass-A.25	INTACT	01-DEC-19		ORGPREP	Armia Rashed	RETURN WALK-IN	CUSTODY RETURN WALK-IN	CUSTODY Armia Rashed
L1957339-19B	Glass-A.25	INTACT	01-DEC-19		W8-S5-D	CUSTODY Armia Rashed	ORGPREP	ORGPREP	Armia Rashed
L1957339-19B	Glass-A.25	INTACT	29-NOV-19	CUSTODY	RETURN WALK-IN	CUSTODY Vincent Y Balestrier	W8-S5-D	CUSTODY W8-S5-D	CUSTODY Vincent Y Balestrier
L1957339-19B	Glass-A.25	INTACT	28-NOV-19		LOGIN	Yaw Attobrah	RETURN WALK-IN	CUSTODY RETURN WALK-IN	CUSTODY Yaw Attobrah
L1957339-19B	Glass-A.25	INTACT	28-NOV-19		CUSTODY	Wendy Morency	LOGIN	LOGIN	Wendy Morency
L1957339-19B	Glass-A.25	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs
L1957339-20A	Glass-A.25	INTACT	13-DEC-19	CUSTODY	W9-S5-A	CUSTODY Anthony Moriondo	R-46	CUSTODY R-46	CUSTODY Anthony Moriondo
L1957339-20A	Glass-A.25	INTACT	04-DEC-19	CUSTODY	RETURN WALK-IN	CUSTODY Vincent Y Balestrier	W9-S5-A	CUSTODY W9-S5-A	CUSTODY Vincent Y Balestrier
L1957339-20A	Glass-A.25	INTACT	03-DEC-19		ORGPREP	George Nantwi	RETURN WALK-IN	CUSTODY RETURN WALK-IN	CUSTODY George Nantwi
L1957339-20A	Glass-A.25	INTACT	03-DEC-19		W8-S5-C	CUSTODY George Nantwi	ORGPREP	ORGPREP	George Nantwi
L1957339-20A	Glass-A.25	INTACT	29-NOV-19	CUSTODY	RETURN WALK-IN	CUSTODY Vincent Y Balestrier	W8-S5-C	CUSTODY W8-S5-C	CUSTODY Vincent Y Balestrier
L1957339-20A	Glass-A.25	INTACT	28-NOV-19		LOGIN	Yaw Attobrah	RETURN WALK-IN	CUSTODY RETURN WALK-IN	CUSTODY Yaw Attobrah
L1957339-20A	Glass-A.25	INTACT	28-NOV-19		CUSTODY	Wendy Morency	LOGIN	LOGIN	Wendy Morency
L1957339-20A	Glass-A.25	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs
L1957339-21A	Glass-A.25	INTACT	13-DEC-19	CUSTODY	W10-S2-B	CUSTODY Anthony Moriondo	R-46	CUSTODY R-46	CUSTODY Anthony Moriondo
L1957339-21A	Glass-A.25	INTACT	02-DEC-19	CUSTODY	RETURN WALK-IN	CUSTODY Vincent Y Balestrier	W10-S2-B	CUSTODY W10-S2-B	CUSTODY Vincent Y Balestrier
L1957339-21A	Glass-A.25	INTACT	01-DEC-19		ORGPREP	Armia Rashed	RETURN WALK-IN	CUSTODY RETURN WALK-IN	CUSTODY Armia Rashed
L1957339-21A	Glass-A.25	INTACT	01-DEC-19		W8-S5-C	CUSTODY Armia Rashed	ORGPREP	ORGPREP	Armia Rashed
L1957339-21A	Glass-A.25	INTACT	29-NOV-19	CUSTODY	RETURN WALK-IN	CUSTODY Vincent Y Balestrier	W8-S5-C	CUSTODY W8-S5-C	CUSTODY Vincent Y Balestrier
L1957339-21A	Glass-A.25	INTACT	28-NOV-19		LOGIN	Yaw Attobrah	RETURN WALK-IN	CUSTODY RETURN WALK-IN	CUSTODY Yaw Attobrah
L1957339-21A	Glass-A.25	INTACT	28-NOV-19		CUSTODY	Wendy Morency	LOGIN	LOGIN	Wendy Morency
L1957339-21A	Glass-A.25	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs
L1957339-22A	Glass-A.25	INTACT	13-DEC-19	CUSTODY	W7-S2-D	CUSTODY Anthony Moriondo	R-46	CUSTODY R-46	CUSTODY Anthony Moriondo
L1957339-22A	Glass-A.25	INTACT	02-DEC-19	CUSTODY	RETURN WALK-IN	CUSTODY Vincent Y Balestrier	W7-S2-D	CUSTODY W7-S2-D	CUSTODY Vincent Y Balestrier

Container ID	Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1957339-22A	Glass-A.25	INTACT	01-DEC-19		ORGPREP	Armia Rashed	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Armia Rashed
L1957339-22A	Glass-A.25	INTACT	01-DEC-19		W8-S5-C CUSTODY	Armia Rashed	ORGPREP	ORGPREP	Armia Rashed
L1957339-22A	Glass-A.25	INTACT	29-NOV-19	CUSTODY	RETURN WALK-IN CUSTODY	Vincent Y Balestrier	W8-S5-C CUSTODY	W8-S5-C CUSTODY	Vincent Y Balestrier
L1957339-22A	Glass-A.25	INTACT	28-NOV-19		LOGIN	Yaw Attobrah	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Yaw Attobrah
L1957339-22A	Glass-A.25	INTACT	28-NOV-19		CUSTODY	Wendy Morency	LOGIN	LOGIN	Wendy Morency
L1957339-22A	Glass-A.25	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs
L1957339-23A	Glass-A.5	INTACT	05-DEC-19	CUSTODY	W21-S2-D CUSTODY	Geoffry Grace	W21-S4-D CUSTODY	W21-S4-D CUSTODY	Geoffry Grace
L1957339-23A	Glass-A.5	INTACT	02-DEC-19	CUSTODY	RETURN WALK-IN CUSTODY	Vincent Y Balestrier	W21-S2-D CUSTODY	W21-S2-D CUSTODY	Vincent Y Balestrier
L1957339-23A	Glass-A.5	INTACT	02-DEC-19	CUSTODY	RETURN WALK-IN CUSTODY	Mitchell Vonachen	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Mitchell Vonachen
L1957339-23A	Glass-A.5	INTACT	30-NOV-19		ORGPREP	Lily Frimpong	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Lily Frimpong
L1957339-23A	Glass-A.5	INTACT	30-NOV-19		W20-S4-C CUSTODY	Lily Frimpong	ORGPREP	ORGPREP	Lily Frimpong
L1957339-23A	Glass-A.5	INTACT	29-NOV-19	CUSTODY	RETURN WALK-IN CUSTODY	Vincent Y Balestrier	W20-S4-C CUSTODY	W20-S4-C CUSTODY	Vincent Y Balestrier
L1957339-23A	Glass-A.5	INTACT	28-NOV-19	CUSTODY	WETCHEM	Julia Maynard	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Julia Maynard
L1957339-23A	Glass-A.5	INTACT	28-NOV-19	CUSTODY	RETURN WALK-IN CUSTODY	Julia Maynard	WETCHEM	WETCHEM	Julia Maynard
L1957339-23A	Glass-A.5	INTACT	28-NOV-19		LOGIN	Yaw Attobrah	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Yaw Attobrah
L1957339-23A	Glass-A.5	INTACT	28-NOV-19		CUSTODY	Wendy Morency	LOGIN	LOGIN	Wendy Morency
L1957339-23A	Glass-A.5	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs
L1957339-23W	EAmber-A1	INTACT	04-DEC-19		ORGPREP	Jessica Westover	R66-01 CUSTODY	R66-01 CUSTODY	Jessica Westover
L1957339-23W	EAmber-A1	INTACT	04-DEC-19		R66-06 CUSTODY	Samy Dakkash	ORGPREP	ORGPREP	Samy Dakkash
L1957339-23W	EAmber-A1	INTACT	02-DEC-19		ORGPREP	John Pierce	R66-06 CUSTODY	R66-06 CUSTODY	John Pierce
L1957339-23W	EAmber-A1	INTACT	02-DEC-19		CUSTODY	John Pierce	ORGPREP	ORGPREP	John Pierce
L1957339-23W	EAmber-A1	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs
L1957339-24A	Glass-A.25	INTACT	13-DEC-19	CUSTODY	W10-S2-B CUSTODY	Anthony Moriondo	R-46 CUSTODY	R-46 CUSTODY	Anthony Moriondo
L1957339-24A	Glass-A.25	INTACT	02-DEC-19	CUSTODY	RETURN WALK-IN CUSTODY	Vincent Y Balestrier	W10-S2-B CUSTODY	W10-S2-B CUSTODY	Vincent Y Balestrier
L1957339-24A	Glass-A.25	INTACT	01-DEC-19		ORGPREP	Armia Rashed	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Armia Rashed

Container ID Type	Status	Transaction Date	From Response	Location	To Operator	Response	Location	Operator
L1957339-24A Glass-A.25	INTACT	01-DEC-19		W8-S5-C CUSTODY	Armia Rashed	ORGPREP	ORGPREP	Armia Rashed
L1957339-24A Glass-A.25	INTACT	29-NOV-19	CUSTODY	RETURN WALK-IN CUSTODY	Vincent Y Balestrier	W8-S5-C CUSTODY	W8-S5-C CUSTODY	Vincent Y Balestrier
L1957339-24A Glass-A.25	INTACT	28-NOV-19		LOGIN	Yaw Attobrah	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Yaw Attobrah
L1957339-24A Glass-A.25	INTACT	28-NOV-19		CUSTODY	Wendy Morency	LOGIN	LOGIN	Wendy Morency
L1957339-24A Glass-A.25	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs
L1957339-25A Glass-A.25	INTACT	13-DEC-19	CUSTODY	W10-S2-B CUSTODY	Anthony Moriondo	R-46 CUSTODY	R-46 CUSTODY	Anthony Moriondo
L1957339-25A Glass-A.25	INTACT	02-DEC-19	CUSTODY	RETURN WALK-IN CUSTODY	Vincent Y Balestrier	W10-S2-B CUSTODY	W10-S2-B CUSTODY	Vincent Y Balestrier
L1957339-25A Glass-A.25	INTACT	01-DEC-19		ORGPREP	Armia Rashed	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Armia Rashed
L1957339-25A Glass-A.25	INTACT	01-DEC-19		W8-S5-C CUSTODY	Armia Rashed	ORGPREP	ORGPREP	Armia Rashed
L1957339-25A Glass-A.25	INTACT	29-NOV-19	CUSTODY	RETURN WALK-IN CUSTODY	Vincent Y Balestrier	W8-S5-C CUSTODY	W8-S5-C CUSTODY	Vincent Y Balestrier
L1957339-25A Glass-A.25	INTACT	28-NOV-19		LOGIN	Yaw Attobrah	RETURN WALK-IN CUSTODY	RETURN WALK-IN CUSTODY	Yaw Attobrah
L1957339-25A Glass-A.25	INTACT	28-NOV-19		CUSTODY	Wendy Morency	LOGIN	LOGIN	Wendy Morency
L1957339-25A Glass-A.25	INTACT	27-NOV-19	LOGIN	LOGIN	Alana Riggs	CUSTODY	CUSTODY	Alana Riggs

Chain of Custody

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

L1957339

POC: Delaney Peterson (360-715-2707)
1605 Cornwall Avenue, Bellingham, WA 98225

Project: Gasco PDI
Client: NW Natural

COC ID: AWHL-20191119-144349
Sample Custodian: SN
Lab: Alpha Analytical

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected		Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
				Date	Time						
001	PDI-FB-1911191346	FB	WQ	11/19/2019	13:46	2	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
002	PDI-RB-1911191254	RB	WQ	11/19/2019	12:54	2	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
003	PDI-1138RAB-00-10-191118	FD	SO	11/18/2019		1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Perchlorate	SW6860	30	4°C
004	PDI-138RAB-00-10-191118	N	SO	11/18/2019	11:40	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Perchlorate	SW6860	30	4°C
005	PDI-138RAB-10-19.1-191118	N	SO	11/18/2019	12:40	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Perchlorate	SW6860	30	4°C
006	PDI-138RAB-C-00-19.1-191118	N	SE	11/18/2019	13:15	1	<input type="checkbox"/>	Ignitability	SW1030	30	4°C
								pH	SW9045D	30	4°C
								TCLP Herbicides	SW8151A	30	4°C
								Total solids (ALPHA)	SM2540G	30	4°C
007	PDI-139RAB-00-10-191115	N	SO	11/15/2019	12:40	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Perchlorate	SW6860	30	4°C
008	PDI-139RAB-10-20-191115	N	SO	11/15/2019	14:40	1	<input type="checkbox"/>				

So
SE
SN 19 Nov 19

Comment:					
Relinquished By: Signature: <i>[Signature]</i>	Received By: Signature: <i>[Signature]</i>	Relinquished By: Signature: <i>[Signature]</i>	Received By: Signature: <i>[Signature]</i>	Relinquished By: Signature: <i>[Signature]</i>	Received By: Signature: <i>[Signature]</i>
Print Name: <i>Sasha Norwood</i>	Print Name: <i>[Blank]</i>	Print Name: <i>[Blank]</i>	Print Name: <i>Dylan Shoak</i>	Print Name: <i>Bethany Bader</i>	Print Name: <i>[Signature]</i>
Company: <i>Anchor OEA</i>	Company: <i>FedEx</i>	Company: <i>FedEx</i>	Company: <i>AAL</i>	Company: <i>AAL</i>	Company: <i>AAL</i>
Date/Time: <i>11/21/19 @ 14:00</i>	Date/Time: <i>[Blank]</i>	Date/Time: <i>[Blank]</i>	Date/Time: <i>11/27/19 10:37</i>	Date/Time: <i>11/27/19</i>	Date/Time: <i>11/27/19 20:59</i>

[Handwritten notes and signatures]
11/27/19
2230

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

L1957339

POC: Delaney Peterson (360-715-2707)
1605 Cornwall Avenue, Bellingham, WA 98225

Project: Gasco PDI
Client: NW Natural

COC ID: AWHL-20191119-144349
Sample Custodian: SN
Lab: Alpha Analytical

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
008	PDI-139RAB-10-20-191115	N	SO	11/15/2019	14:40	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Perchlorate	SW6860	30	4°C
009	PDI-139RAB-20-25.5-191118	N	SO	11/18/2019	8:30	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Perchlorate	SW6860	30	4°C
010	PDI-144RAB-C-00-29-191114	N	SE SN is Nov 19	11/14/2019	16:00	1	<input type="checkbox"/>	Ignitability	SW1030	30	4°C
								pH	SW9045D	30	4°C
								TCLP Herbicides	SW8151A	30	4°C
								Total solids (ALPHA)	SM2540G	30	4°C
011	PDI-145RAB-00-10-191114	N	SO	11/14/2019	9:15	2	<input checked="" type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Perchlorate	SW6860	30	4°C
012	PDI-145RAB-10-20-191114	N	SO	11/14/2019	10:30	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Perchlorate	SW6860	30	4°C
013	PDI-145RAB-20-24.7-191114	N	SO	11/14/2019	11:05	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Perchlorate	SW6860	30	4°C

Comment:					
Relinquished By: Signature: <i>[Signature]</i>	Received By: Signature: <i>[Signature]</i>	Relinquished By: Signature: <i>[Signature]</i>	Received By: Signature: <i>[Signature]</i>	Relinquished By: Signature: <i>[Signature]</i>	Received By: Signature: <i>[Signature]</i>
Print Name: <i>Sasha Norwood</i>	Print Name: <i>[Blank]</i>	Print Name: <i>[Blank]</i>	Print Name: <i>Dylan Snook</i>	Print Name: <i>Beth...</i>	Print Name: <i>Joe Bozio</i>
Company: <i>Anchor OEA</i>	Company: <i>FedEx</i>	Company: <i>FedEx</i>	Company: <i>Adi</i>	Company: <i>AAL</i>	Company: <i>AAL</i>
Date/Time: <i>11/21/19 @ 1400</i>	Date/Time: <i>[Blank]</i>	Date/Time: <i>[Blank]</i>	Date/Time: <i>11/27/19 10:37</i>	Date/Time: <i>11/27/19</i>	Date/Time: <i>11/27/19 2019</i>

* Lab QC Requested for sample when box is checked ** TAT = Turn Around Time in DAYS # POC = Project Point of Contact

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

L1957339

POC: Delaney Peterson (360-715-2707)
1605 Cornwall Avenue, Bellingham, WA 98225

Project: Gasco PDI
Client: NW Natural

COC ID: AWHL-20191121-114219
Sample Custodian: SN
Lab: Alpha Analytical

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected		Containers	Lab QC*	Test Request	Method	TAT**	Preservative
				Date	Time						
001	PDI-134RAB-00-10-191120	N	SO	11/20/2019	14:45	1	<input type="checkbox"/>	Herbicides Perchlorate	SW8151A SW6860	30 30	4°C 4°C
002	PDI-134RAB-10-20-191120	N	SO	11/20/2019	15:30	1	<input type="checkbox"/>	Herbicides Perchlorate	SW8151A SW6860	30 30	4°C 4°C
003	PDI-134RAB-20-25.5-191120	N	SO	11/20/2019	15:55	1	<input type="checkbox"/>	Herbicides Perchlorate	SW8151A SW6860	30 30	4°C 4°C
004	PDI-134RAB-C-00-25.5-191120	N	SO	11/20/2019	16:15	1	<input type="checkbox"/>	Ignitability pH TCLP Herbicides Total solids (ALPHA)	SW1030 SW9045D SW8151A SM2540G	30 30 30 30	
005	PDI-135RAB-00-10-191120	N	SO	11/20/2019	9:20	1	<input type="checkbox"/>	Herbicides Perchlorate	SW8151A SW6860	30 30	4°C 4°C
006	PDI-135RAB-10-20-191120	N	SO	11/20/2019	9:55	2	<input checked="" type="checkbox"/>	Herbicides Perchlorate	SW8151A SW6860	30 30	4°C 4°C
007	PDI-135RAB-20-26.2-191120	N	SO	11/20/2019	11:00	1	<input type="checkbox"/>				

Comment:

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>
Print Name: <i>Sasha Norwood</i>	Print Name: <i>[Name]</i>	Print Name: <i>[Name]</i>	Print Name: <i>Dylan Snook</i>	Print Name: <i>Bethany R...</i>	Print Name: <i>[Name]</i>
Company: <i>Anchor QEA</i>	Company: <i>FedEx</i>	Company: <i>FedEx</i>	Company: <i>AAL</i>	Company: <i>AAL</i>	Company: <i>AAL</i>
Date/Time: <i>11/21/19 14:05</i>	Date/Time: <i>[Date/Time]</i>	Date/Time: <i>[Date/Time]</i>	Date/Time: <i>11/27/19 10:37</i>	Date/Time: <i>11/27/19 10:00</i>	Date/Time: <i>11/27/19 20:54</i>

Date Printed: 11/21/2019

[Handwritten notes]
JWB
412
11/27/19
2230

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

L1957339

POC: Delaney Peterson (360-715-2707)
1605 Cornwall Avenue, Bellingham, WA 98225

Project: Gasco PDI
Client: NW Natural

COC ID: AWHL-20191121-114219
Sample Custodian: SN
Lab: Alpha Analytical

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected		Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
				Date	Time						
007	PDI-135RAB-20-26.2-191120	N	SO	11/20/2019	11:00	1	<input type="checkbox"/>	Herbicides Perchlorate	SW8151A SW6860	30 30	4°C 4°C
008	PDI-136RAB-00-10-191119	N	SO	11/19/2019	9:20	1	<input type="checkbox"/>	Herbicides Perchlorate	SW8151A SW6860	30 30	4°C 4°C
009	PDI-136RAB-10-13.4-191119	N	SO	11/19/2019	10:00	1	<input type="checkbox"/>	Herbicides Perchlorate	SW8151A SW6860	30 30	4°C 4°C
010	PDI-136RAB-C-00-13.4-191119	N	SO	11/19/2019	10:30	1	<input type="checkbox"/>	Herbicides Perchlorate Ignitability pH TCLP Herbicides Total solids (ALPHA)	SW8151A SW6860 SW1030 SW9045D SW8151A SM2540G	30 30 30 30 30	4°C 4°C
011	PDI-137RAB-00-10-191119	N	SO	11/19/2019	12:15	1	<input type="checkbox"/>	Herbicides Perchlorate	SW8151A SW6860	30 30	4°C 4°C
012	PDI-137RAB-10-17.7-191119	N	SO	11/19/2019	12:50	1	<input type="checkbox"/>	Herbicides Perchlorate	SW8151A SW6860	30 30	4°C 4°C

Comment:

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>
Print Name: <i>Sasha Harwood</i>	Print Name: <i>[Name]</i>	Print Name: <i>[Name]</i>	Print Name: <i>Dylan Snook</i>	Print Name: <i>[Name]</i>	Print Name: <i>Jon DeLo</i>
Company: <i>Anchor OEA</i>	Company: <i>FedEx</i>	Company: <i>FedEx</i>	Company: <i>AAI</i>	Company: <i>AAI</i>	Company: <i>AAI</i>
Date/Time: <i>11/21/19 14:00</i>	Date/Time: <i>[Date/Time]</i>	Date/Time: <i>[Date/Time]</i>	Date/Time: <i>11/27/19 10:37</i>	Date/Time: <i>11/27/19</i>	Date/Time: <i>11/27/19 20:30</i>

Date Printed: 11/21/2019

* Lab QC Requested for sample when box is checked ** TAT = Turn Around Time in DAYS # POC = Project Point of Contact

ORIGIN ID: BNOA (503) 718-2323
APEX LABS
APEX LABORATORIES
12232 SW GARDEN PL

SHIP DATE: 25NOV19
ACTWGT: 52.00 LB
CAD: 4716258/INET4160

TIGARD, OR 97223
UNITED STATES US

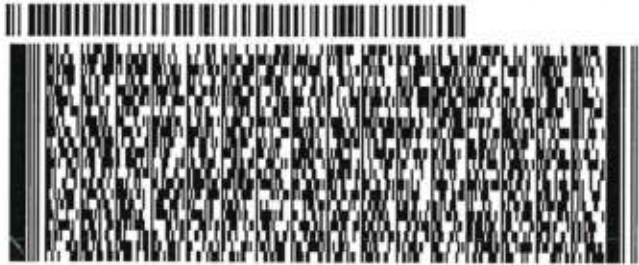
BILL THIRD PARTY

TO **SAMPLE RECEIVING
ALPHA ANALYTICAL
320 FORBES BLVD.**

MANSFIELD MA 02048

567J1F33005A2

(508) 822-9300 REF: 000029-02:59
INV. PO. DEPT.



2 of 2

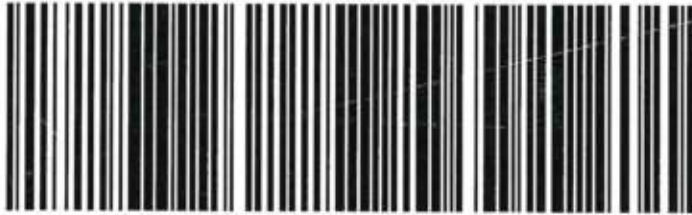
**TUE - 26 NOV 10:30A
PRIORITY OVERNIGHT**

MPS# 7770 7713 9151
0263
Mstr# 7770 7713 9140

0201

XE PYMA

02048
MA-US BOS



*A= 3.4
9829
cool arrived
11/26/19*

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

ORIGIN ID: BNOA (503) 718-2323
APEX LABS
APEX LABORATORIES
12232 SW GARDEN PL

SHIP DATE: 25NOV19
ACTWGT: 52.00 LB
CAD: 4716258/NET4160

TIGARD, OR 97223
UNITED STATES US

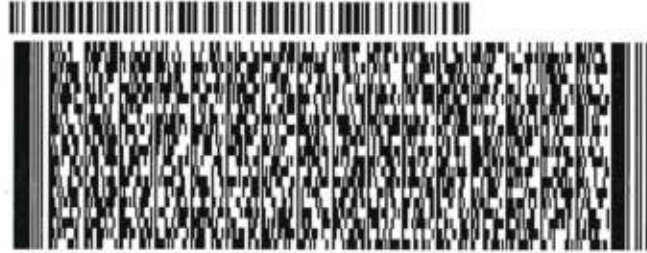
BILL THIRD PARTY

TO **SAMPLE RECEIVING**
ALPHA ANALYTICAL
320 FORBES BLVD.

MANSFIELD MA 02048

567.11.F33005A2

(508) 822-9300 REF: 000029-02-59
INV: PO: DEPT:

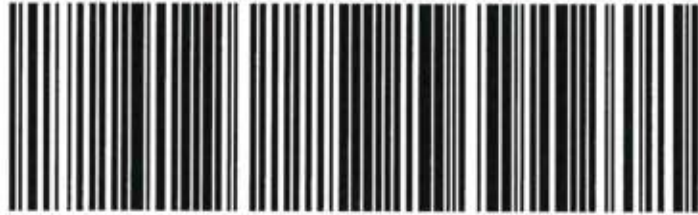


TUE - 26 NOV 10:30A
PRIORITY OVERNIGHT

1 of 2
TRK# 7770 7713 9140
0201
MASTER

XE PYMA

02048
MA-US BOS



B = 0.8°C
5623

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Organics

GC Extractable Analysis Herbicides

Initial Calibration

Response Factor Report Pest 17

Method Path : I:\Pest17\190903ICAL\
 Method File : Herb17_07_31_ICAL.m
 Title : herb
 Last Update : Thu Sep 05 09:06:24 2019
 Response Via : Initial Calibration

Calibration Files

1 =17190903i-02.d 2 =17190903i-03.d 3 =17190903i-04.d 4 =17190903i-05.d 5 =17190903i-06.d
 6 =17190903i-07.d

Compound	1	2	3	4	5	6	Avg	%RSD
1) i 4,4'-DBOB	-----ISTD-----							
2) t Dalapon	0.164	0.149	0.140	0.145	0.124	0.120	0.140	11.83
3) s DCAA (surrogate)	0.195	0.173	0.172	0.159	0.145	0.131	0.162	14.04
4) t Dicamba	0.541	0.495	0.481	0.536	0.470	0.439	0.494	7.97
5) t MCPP	0.001	0.001	0.001	0.001	0.001	0.001	0.001	16.81
6) t MCPA		0.001	0.001	0.001	0.001	0.001	*L	0.9954
7) t Dichloroprop		0.155	0.146	0.152	0.129	0.118	*L	0.9949
8) t 2,4-D	0.213	0.191	0.181	0.195	0.170	0.158	0.185	10.58
9) t 2,4,5-TP (Sil...	0.743	0.682	0.681	0.756	0.665		0.706	5.81
10) t 2,4,5-T	0.760	0.728	0.740	0.830	0.724	0.679	0.743	6.72
11) t 2,4-DB	0.131	0.125	0.120	0.129	0.115	0.112	0.122	6.14
12) t Dinoseb	0.229	0.227	0.234	0.294	0.279	0.287	*L	0.9983

Signal #2 Calibration Files

1 =17190903i-02.d 2 =17190903i-03.d 3 =17190903i-04.d 4 =17190903i-05.d 5 =17190903i-06.d
 6 =17190903i-07.d

Compound	1	2	3	4	5	6	Avg	%RSD
1) i 4,4'-DBOB	-----ISTD-----							
2) t Dalapon	0.206	0.166	0.148	0.150	0.133	0.141	0.157	16.77
3) s DCAA (surrogate)	0.236	0.208	0.206	0.193	0.181	0.178	0.200	10.78
4) t Dicamba	0.621	0.563	0.542	0.595	0.531	0.533	0.564	6.51
5) t MCPP	0.001	0.001	0.001	0.001	0.001	0.001	0.001	7.61
6) t MCPA		0.001	0.001	0.001	0.001	0.001	0.001	10.35
7) t Dichloroprop		0.167	0.159	0.170	0.151	0.149	*L	0.9988
8) t 2,4-D	0.248	0.219	0.211	0.232	0.209	0.212	0.222	6.81
9) t 2,4,5-TP (Sil...	0.727	0.682	0.677	0.760	0.691		*L	0.9968
10) t 2,4,5-T	0.771	0.677	0.659	0.753	0.709	0.735	0.717	6.10
11) t 2,4-DB	0.137	0.126	0.121	0.135	0.123	0.123	0.128	5.43

Response Factor Report Pest 17

Method Path : I:\Pest17\190903ICAL\
 Method File : Herb17_07_31_ICAL.m
 Title : herb
 Last Update : Thu Sep 05 09:06:24 2019
 Response Via : Initial Calibration

Calibration Files

1 =17190903i-02.d 2 =17190903i-03.d 3 =17190903i-04.d 4 =17190903i-05.d 5 =17190903i-06.d
 6 =17190903i-07.d

Compound	1	2	3	4	5	6	Avg	%RSD
12) t Dinoseb	0.260	0.237	0.235	0.270	0.249	0.257	*L	0.9987

 (#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\190903ICAL\
 Data File : 17190903i-02.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 3 Sep 2019 11:08 am
 Operator : PEST17:dgm
 Sample : illherb,42e,,9270
 Misc : wgl280590,
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Sep 05 09:08:01 2019
 Quant Method : I:\Pest17\190903ICAL\Herb17_07_31_ICAL.m
 Quant Title : herb
 QLast Update : Thu Sep 05 09:07:58 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Internal Standards							
1) i	4,4'-DFOB	8.658	8.682	639.3E6	638.7E6	0.250	0.250
System Monitoring Compounds							
3) s	DCAA (surrog	7.124	7.618	23454807	28353303	0.056M4	0.055
	Spiked Amount	0.500	Range 30 - 150	Recovery =		11.20%#	11.00%#
Target Compounds							
2) t	Dalapon	2.107f	2.175f	19120504	23961701	0.053M2	0.060M2
4) t	Dicamba	7.309	7.802	65062288	74615191	0.052M4	0.052
5) t	MCP P	7.510	7.911	9842637	10690593	5.895M4	5.297M4
6) t	MCP A	7.656	8.137	18600356	19356787	N.D. M4	6.222M4
7) t	Dichloroprop	8.011	8.453	21155888	22754731	N.D.	0.029M4
8) t	2,4-D	8.219	8.723	25587346	29734997	0.054	0.052
9) t	2,4,5-TP (Si	8.929	9.379	90257016	88236631	0.050	0.044
10) t	2,4,5-T	9.143	9.664	92365114	93539493	0.049M4	0.051
11) t	2,4-DB	9.550	10.026	16031980	16849924	0.051M4	0.052M4
12) t	Dinoseb	10.290	10.248	27780943	31594009	0.053	0.051

SemiQuant Compounds - Not Calibrated on this Instrument

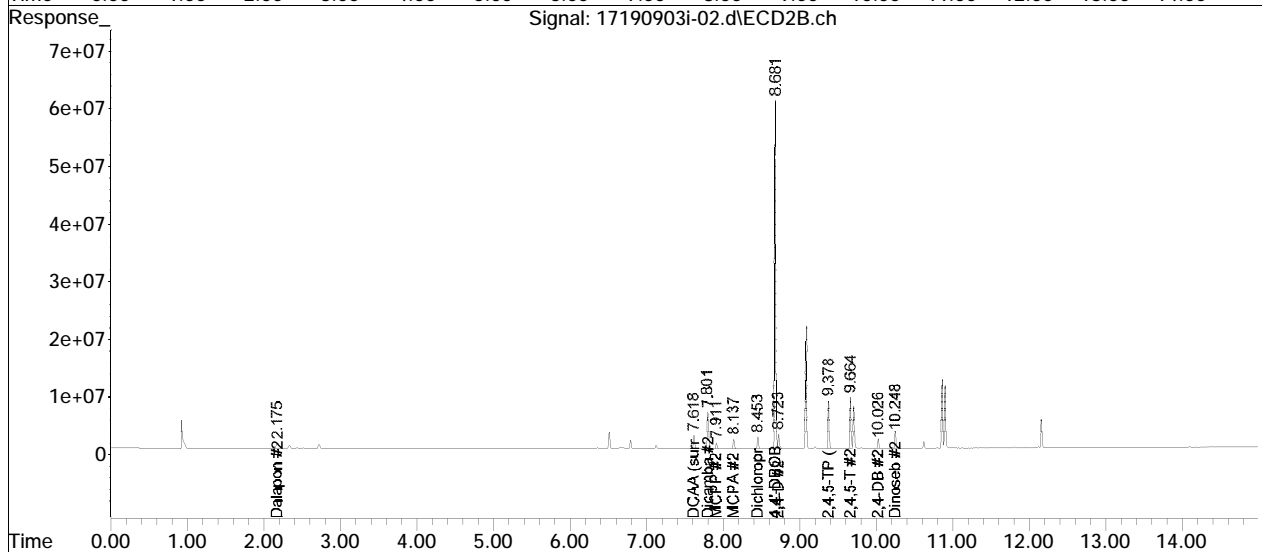
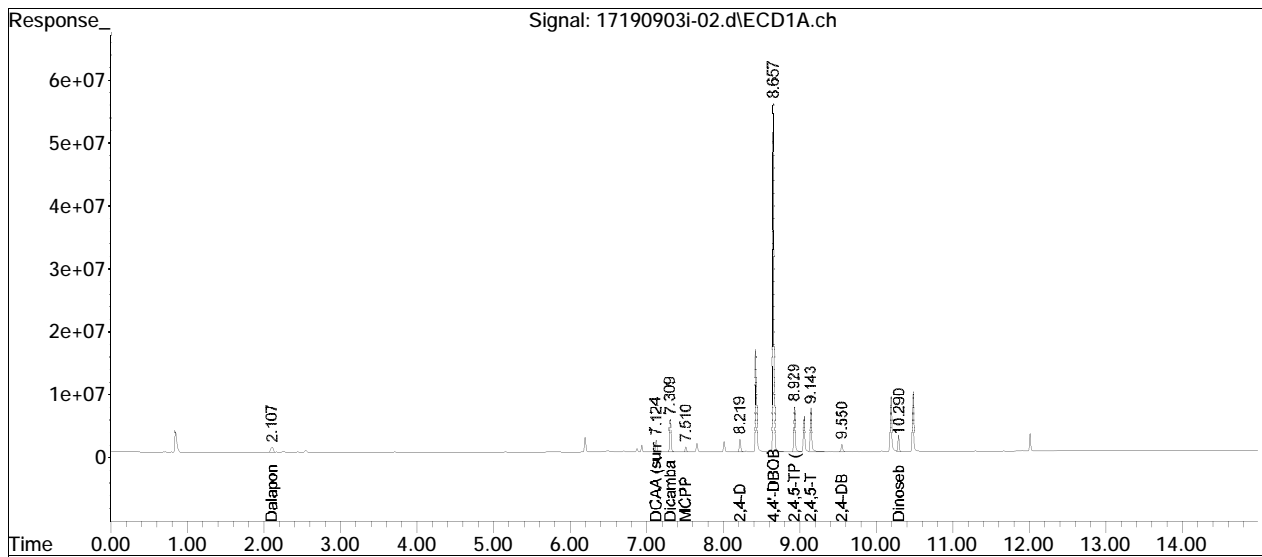
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coeluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Sep 2019 11:08 am
Operator : PEST17:dgm
Sample : illherb,42e,,9270
Misc : wg1280590,
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 05 09:08:01 2019
Quant Method : I:\Pest17\190903ICAL\Herb17_07_31_ICAL.m
Quant Title : herb
QLast Update : Thu Sep 05 09:07:58 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

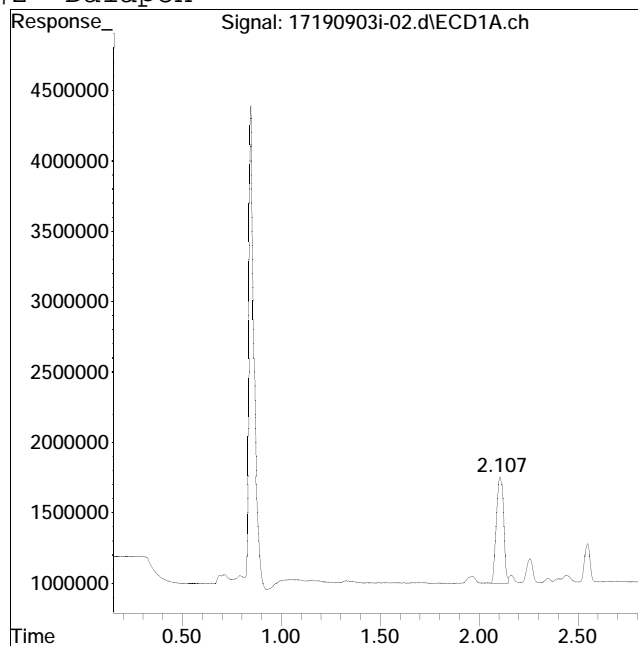
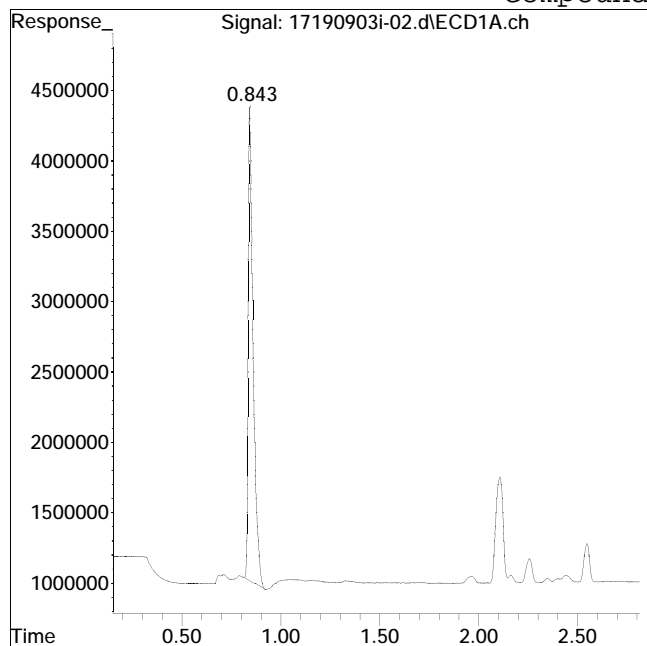


Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-02.d
Date Inj'd : 9/3/2019 11:08 am
Sample : illherb,42e,,9270

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/5/2019 9:07 am

Compound #2: Dalapon



Original Peak Response = 58257319

Manual Peak Response = 19120504 M2

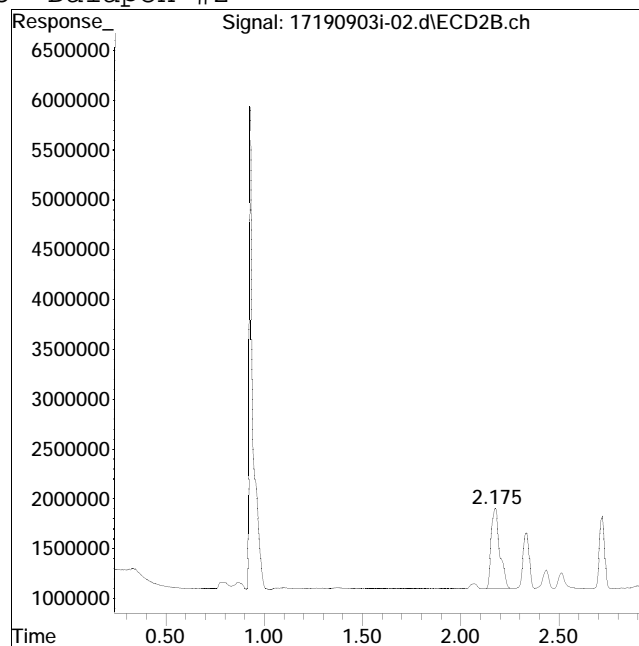
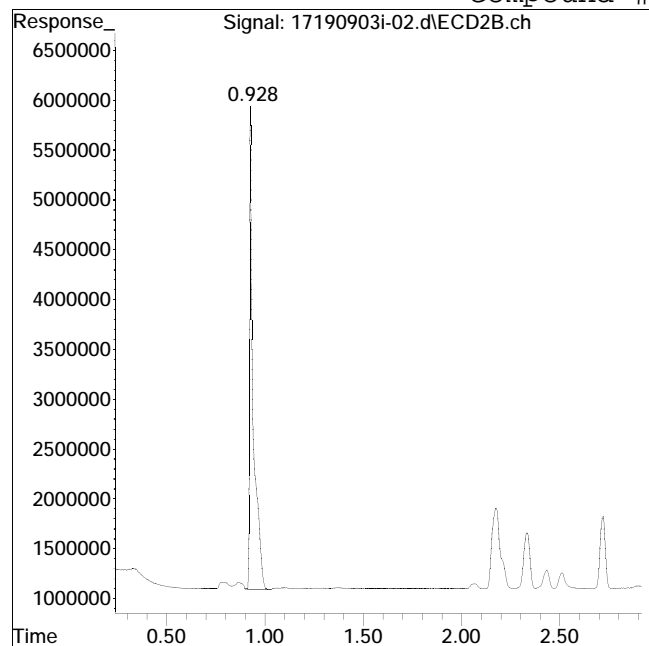
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-02.d
Date Inj'd : 9/3/2019 11:08 am
Sample : illherb,42e,,9270

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/5/2019 9:07 am

Compound #15: Dalapon #2



Original Peak Response = 60827594

Manual Peak Response = 23961701 M2

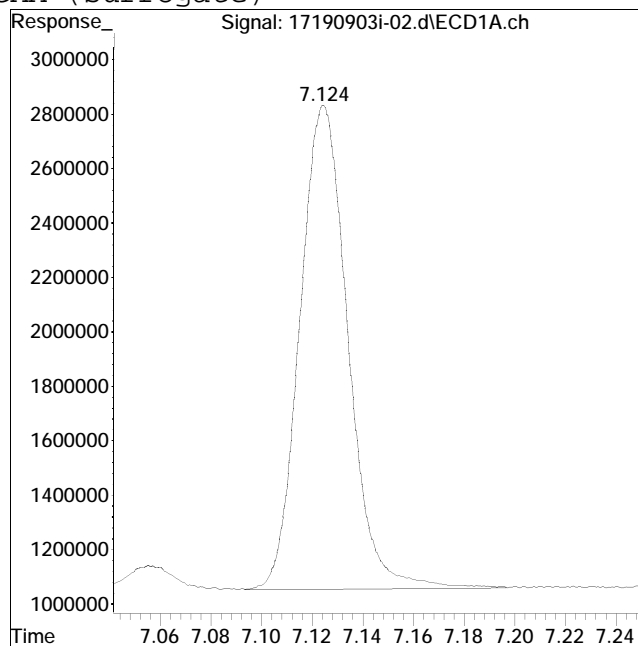
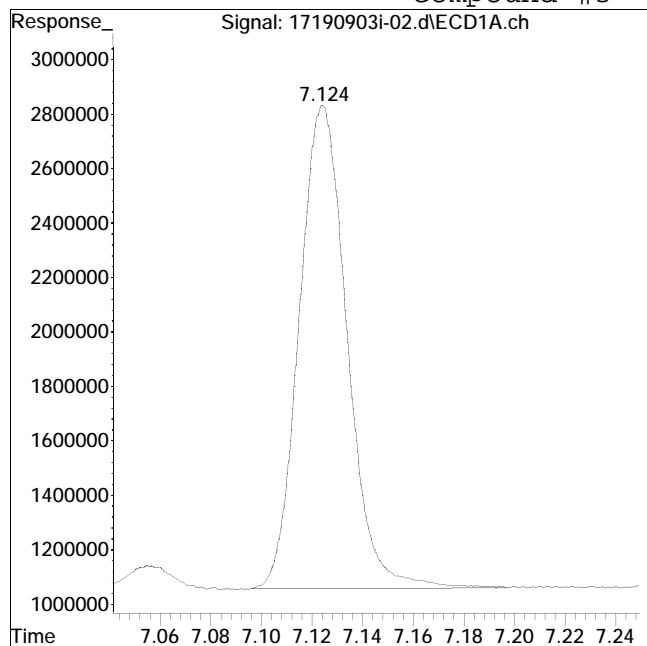
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-02.d
Date Inj'd : 9/3/2019 11:08 am
Sample : illherb,42e,,9270

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/5/2019 9:07 am

Compound #3: DCAA (surrogate)



Original Peak Response = 23320638

Manual Peak Response = 23454807 M4

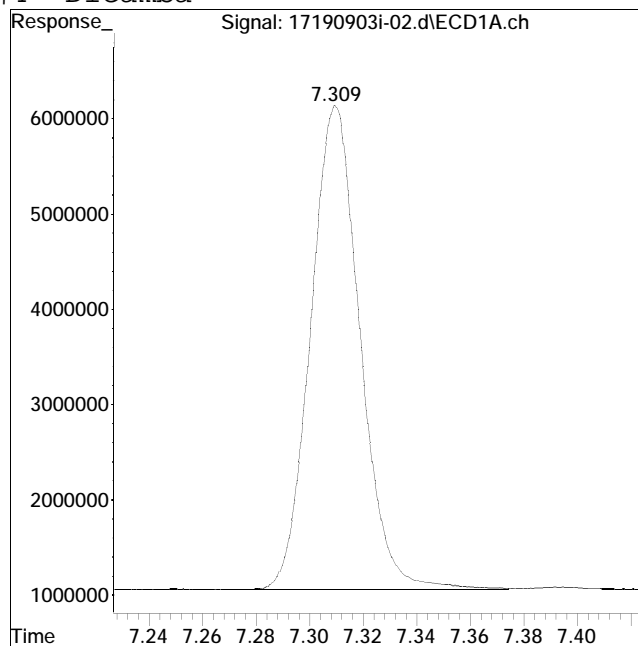
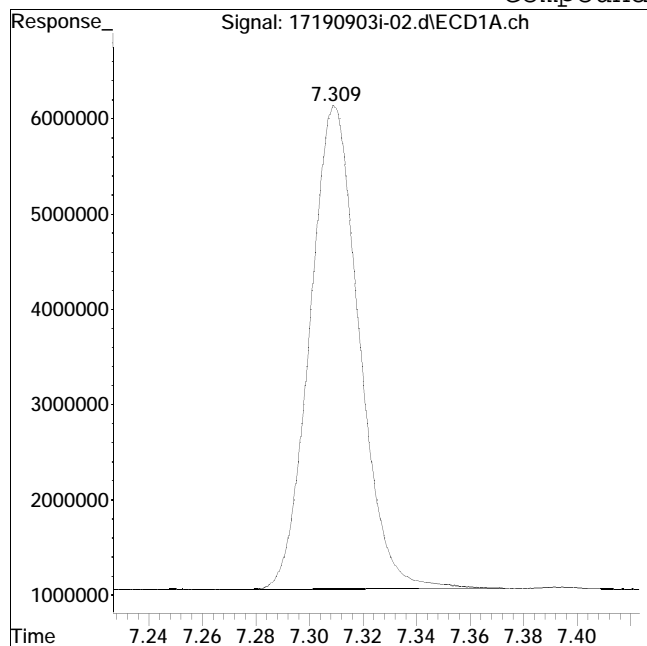
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-02.d
Date Inj'd : 9/3/2019 11:08 am
Sample : illherb,42e,,9270

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/5/2019 9:07 am

Compound #4: Dicamba



Original Peak Response = 64627027

Manual Peak Response = 65062288 M4

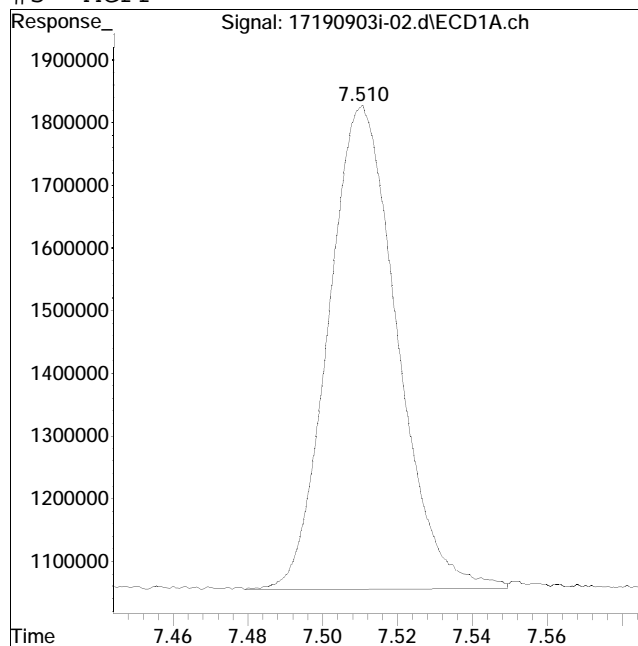
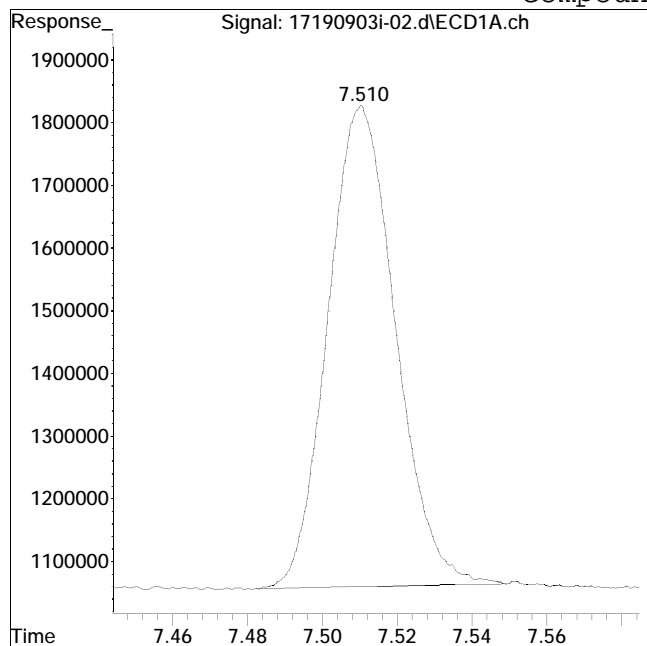
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-02.d
Date Inj'd : 9/3/2019 11:08 am
Sample : illherb,42e,,9270

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/5/2019 9:07 am

Compound #5: MCPP



Original Peak Response = 9631384

Manual Peak Response = 9842637 M4

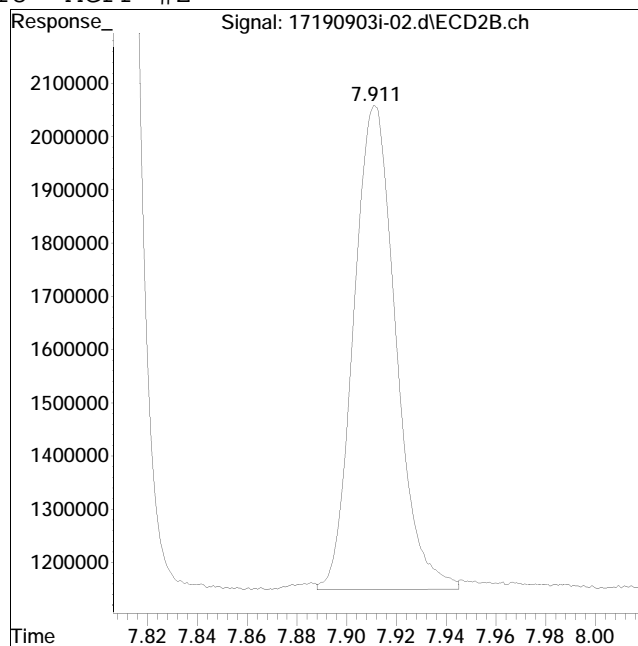
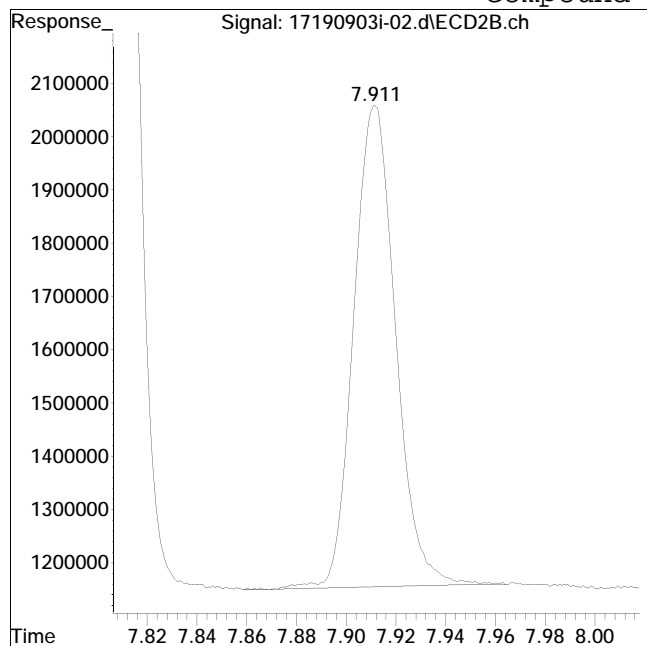
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-02.d
Date Inj'd : 9/3/2019 11:08 am
Sample : illherb,42e,,9270

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/5/2019 9:07 am

Compound #18: MCPP #2



Original Peak Response = 10629911

Manual Peak Response = 10690593 M4

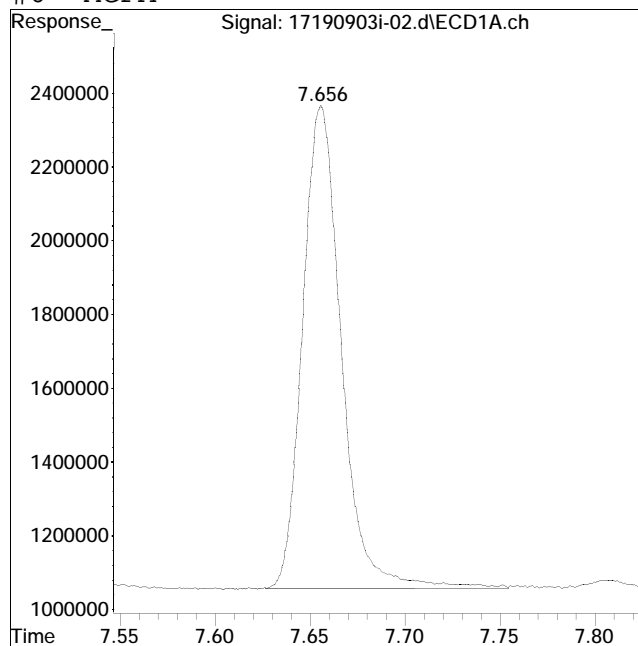
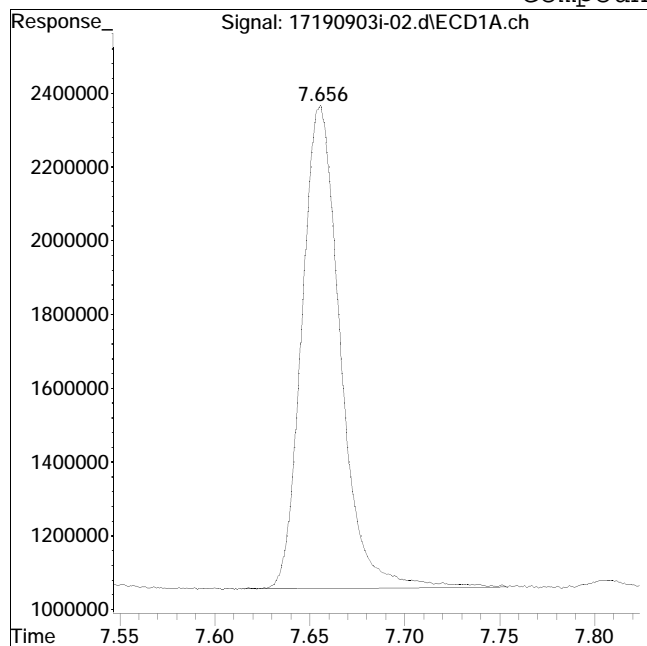
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-02.d
Date Inj'd : 9/3/2019 11:08 am
Sample : illherb,42e,,9270

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/5/2019 9:07 am

Compound #6: MCPA



Original Peak Response = 18456152

Manual Peak Response = 18600356 M4

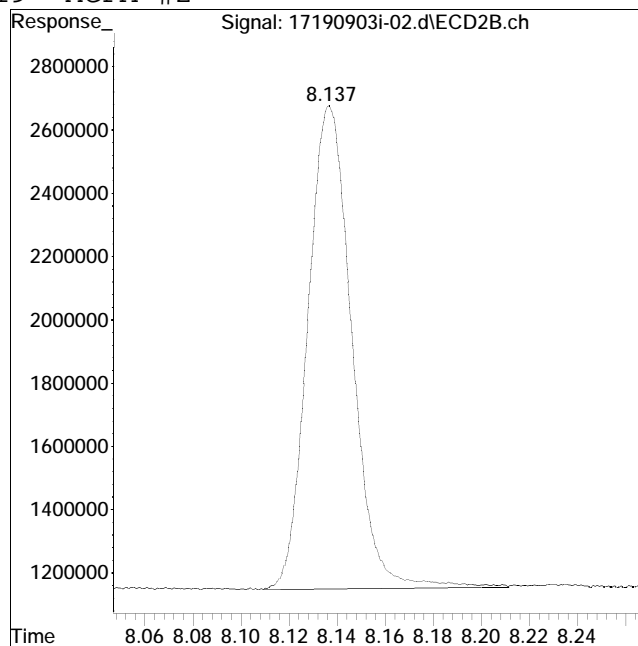
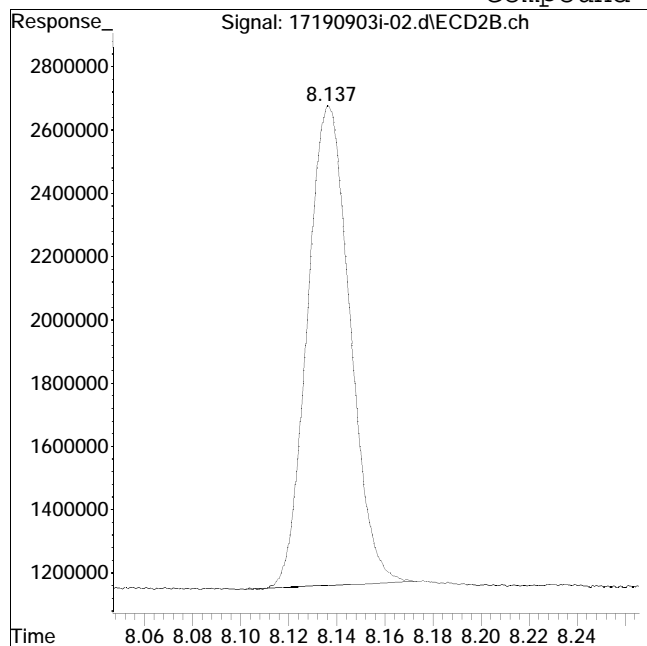
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-02.d
Date Inj'd : 9/3/2019 11:08 am
Sample : illherb,42e,,9270

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/5/2019 9:07 am

Compound #19: MCPA #2



Original Peak Response = 18655391

Manual Peak Response = 19356787 M4

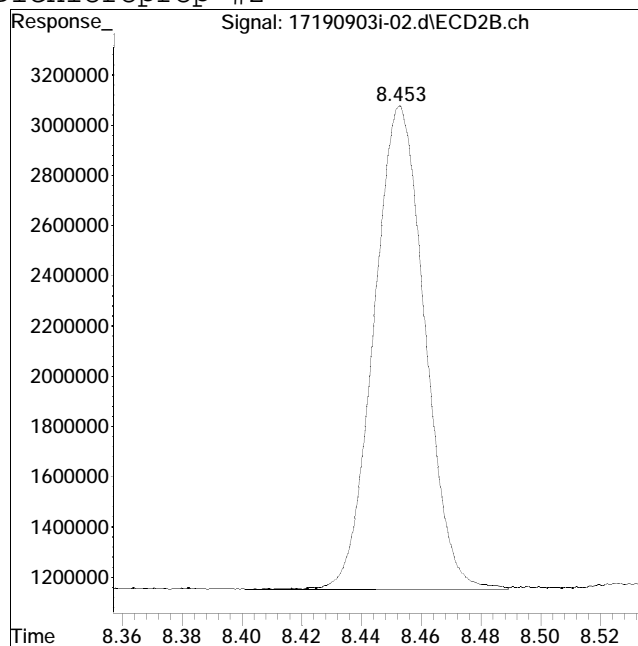
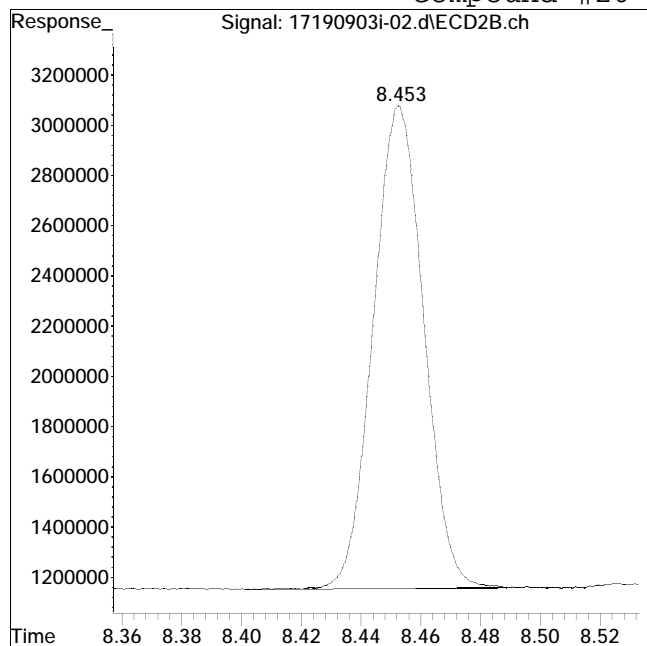
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-02.d
Date Inj'd : 9/3/2019 11:08 am
Sample : illherb,42e,,9270

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/5/2019 9:07 am

Compound #20: Dichloroprop #2



Original Peak Response = 22534241

Manual Peak Response = 22754731 M4

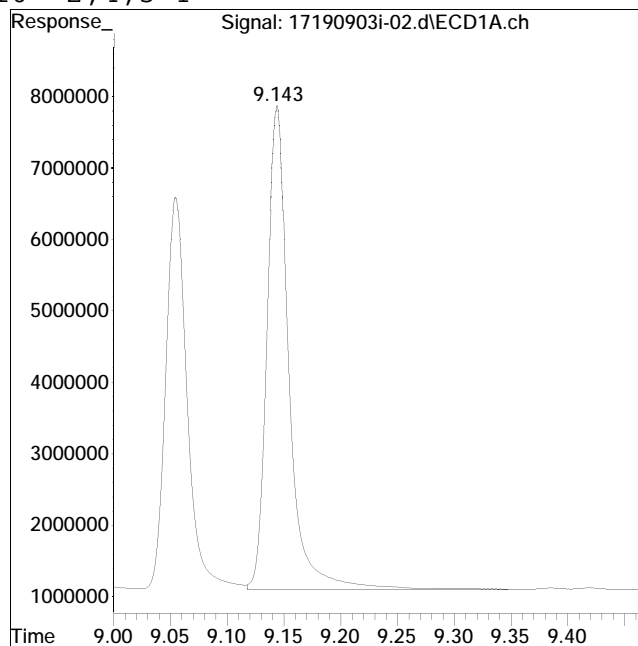
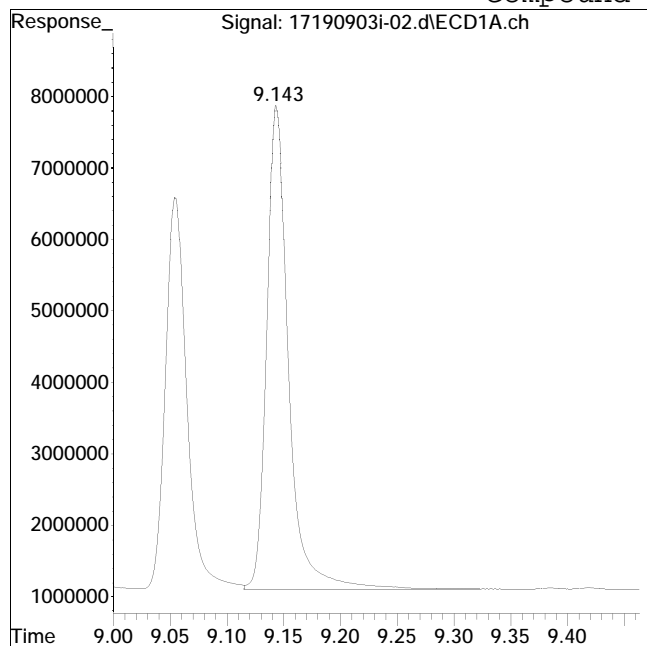
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-02.d
Date Inj'd : 9/3/2019 11:08 am
Sample : illherb,42e,,9270

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/5/2019 9:07 am

Compound #10: 2,4,5-T



Original Peak Response = 92203672

Manual Peak Response = 92365114 M4

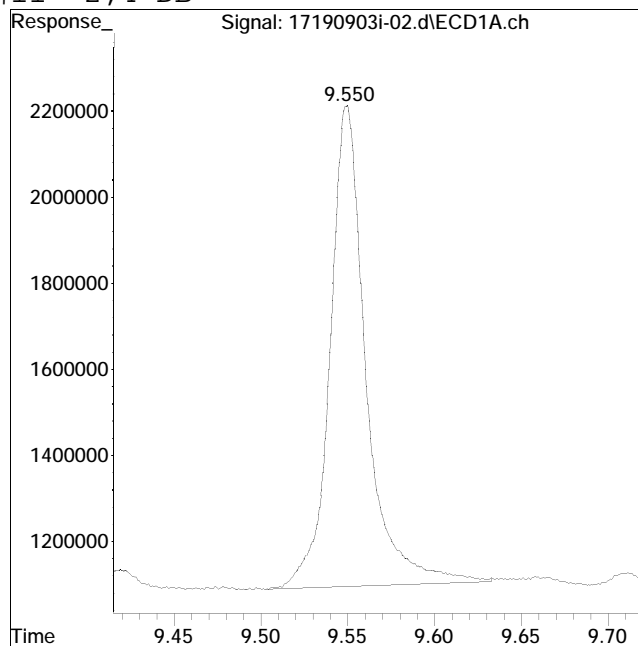
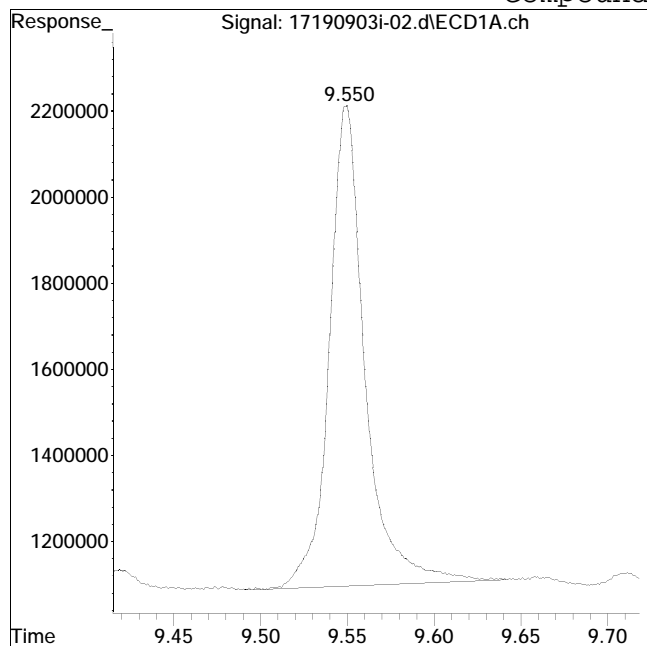
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-02.d
Date Inj'd : 9/3/2019 11:08 am
Sample : illherb,42e,,9270

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/5/2019 9:07 am

Compound #11: 2,4-DB



Original Peak Response = 15956276

Manual Peak Response = 16031980 M4

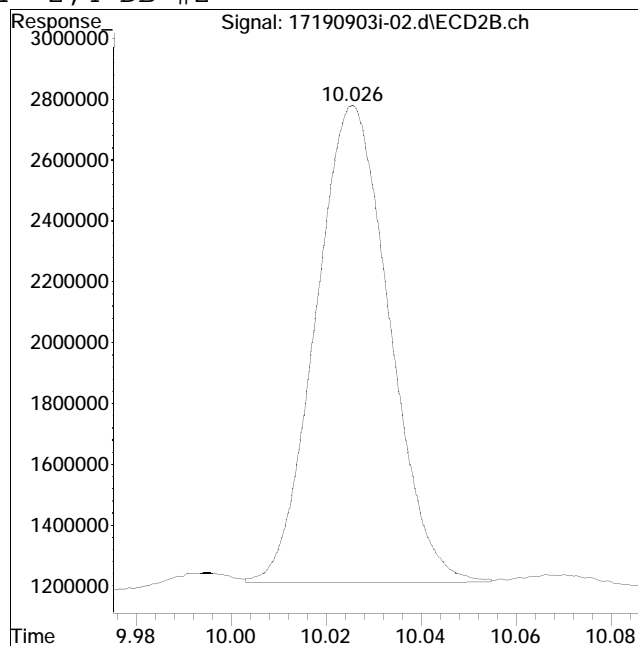
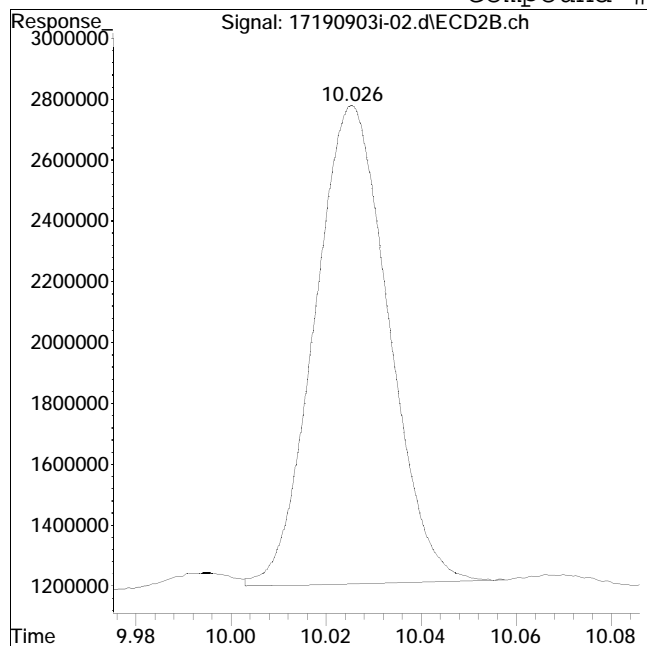
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-02.d
Date Inj'd : 9/3/2019 11:08 am
Sample : illherb,42e,,9270

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/5/2019 9:07 am

Compound #24: 2,4-DB #2



Original Peak Response = 16980628

Manual Peak Response = 16849924 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\190903ICAL\
 Data File : 17190903i-03.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 3 Sep 2019 11:26 am
 Operator : PEST17:dgm
 Sample : il2herb,42e,,9271
 Misc : wgl280590, (Sig #1); ical (Sig #2)
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Sep 05 09:12:06 2019
 Quant Method : I:\Pest17\190903ICAL\Herb17_07_31_ICAL.m
 Quant Title : herb
 QLast Update : Thu Sep 05 09:12:03 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Internal Standards							
1) i	4,4'-DFOB	8.656	8.682	659.5E6	650.6E6	0.250M4	0.250
System Monitoring Compounds							
3) s	DCAA (surrog	7.123	7.619	42983234	50999722	0.100M4	0.098
	Spiked Amount	0.500	Range 30 - 150	Recovery =		20.00%#	19.60%#
Target Compounds							
2) t	Dalapon	2.106f	2.173f	35883166	39425221	0.097M2	0.096M2
4) t	Dicamba	7.308	7.801	122.8E6	137.8E6	0.094M4	0.094M4
5) t	MCPP	7.509	7.911	17732301	19687484	10.296	9.576M4
6) t	MCPA	7.654	8.137	31513925	33492810	4.539M4	10.569M4
D							
7) t	Dichloroprop	8.010	8.452	38466913	40750478	0.046M4	0.075M4
D							
8) t	2,4-D	8.217	8.723	47390809	53658662	0.097	0.093
9) t	2,4,5-TP (Si	8.927	9.378	170.9E6	168.6E6	0.092	0.088M4
10) t	2,4,5-T	9.142	9.664	182.5E6	167.3E6	0.093M4	0.090
11) t	2,4-DB	9.547	10.024	31629623	31438129	0.098M4	0.095M4
12) t	Dinoseb	10.288	10.248	56844454	58599510	0.090	0.091

SemiQuant Compounds - Not Calibrated on this Instrument

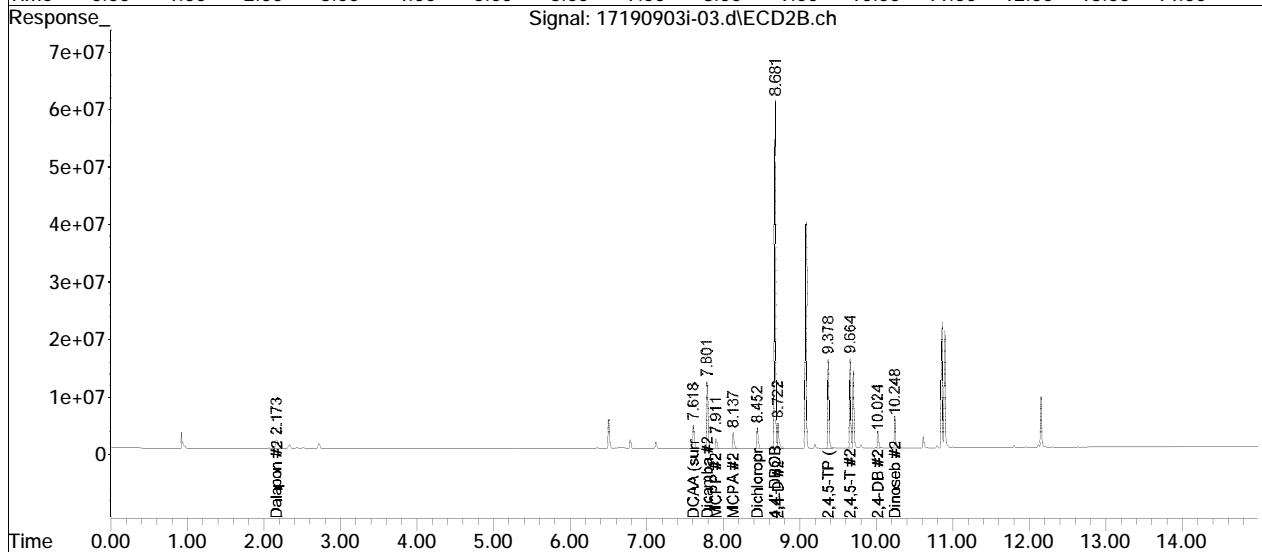
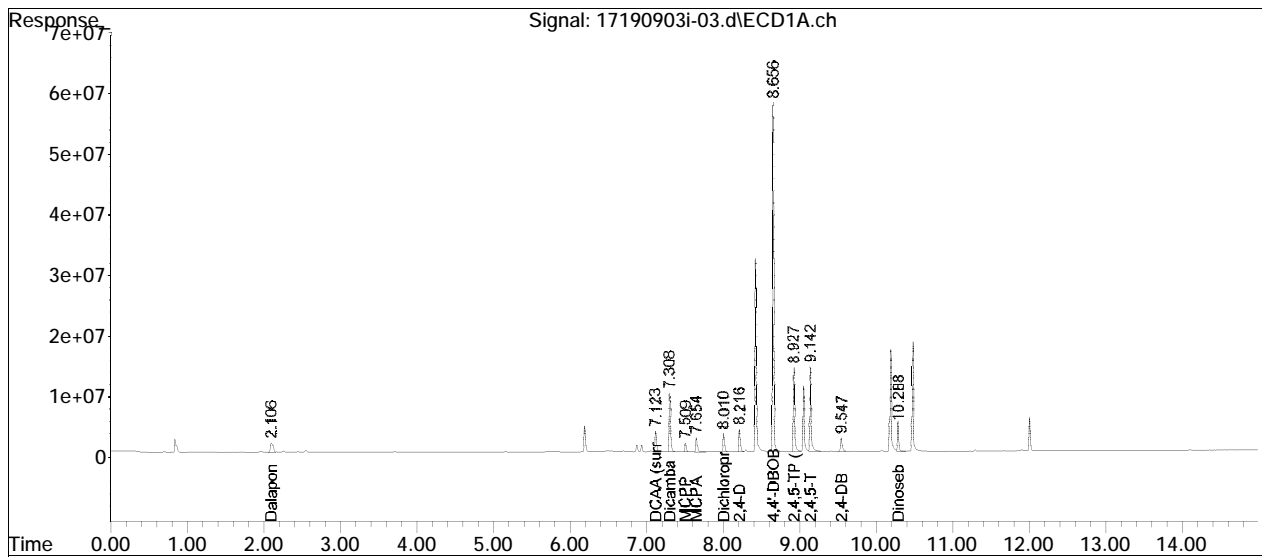
 (f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coeluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Sep 2019 11:26 am
Operator : PEST17:dgm
Sample : il2herb,42e,,9271
Misc : wg1280590, (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 05 09:12:06 2019
Quant Method : I:\Pest17\190903ICAL\Herb17_07_31_ICAL.m
Quant Title : herb
QLast Update : Thu Sep 05 09:12:03 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

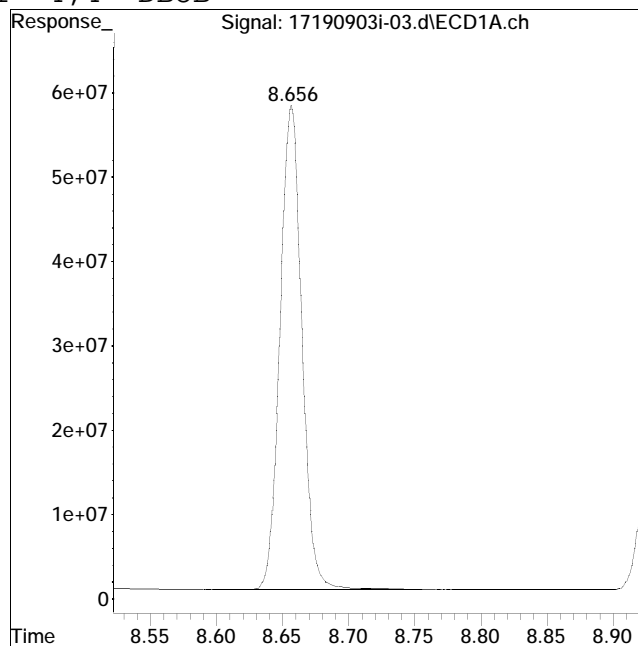
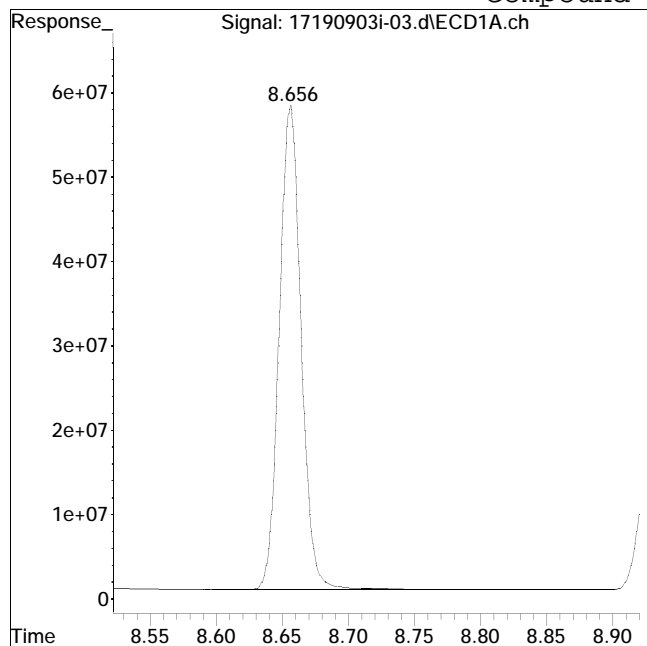


Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-03.d
Date Inj'd : 9/3/2019 11:26 am
Sample : il2herb,42e,,9271

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/5/2019 9:12 am

Compound #1: 4,4'-DBOB



Original Peak Response = 660573876

Manual Peak Response = 659494178 M4

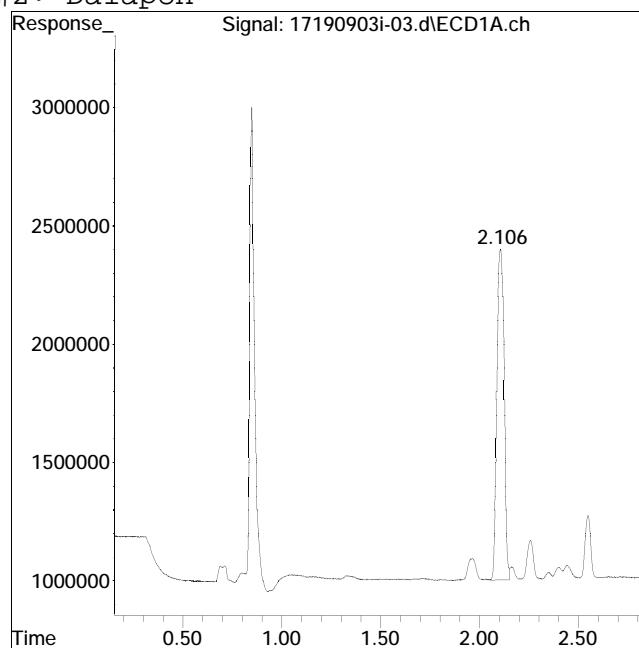
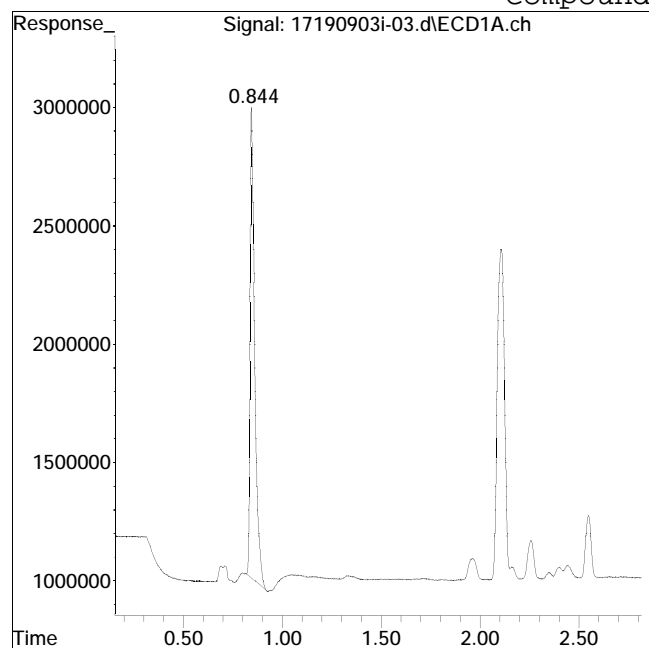
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-03.d
Date Inj'd : 9/3/2019 11:26 am
Sample : il2herb,42e,,9271

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/5/2019 9:12 am

Compound #2: Dalapon



Original Peak Response = 32589477

Manual Peak Response = 35883166 M2

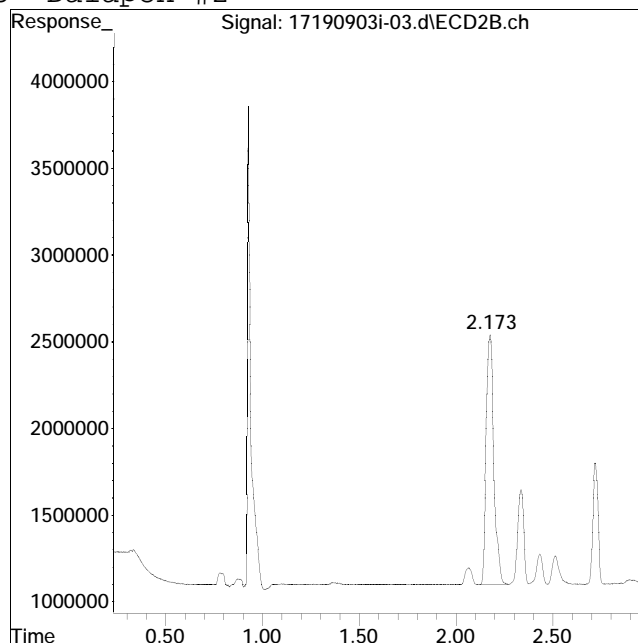
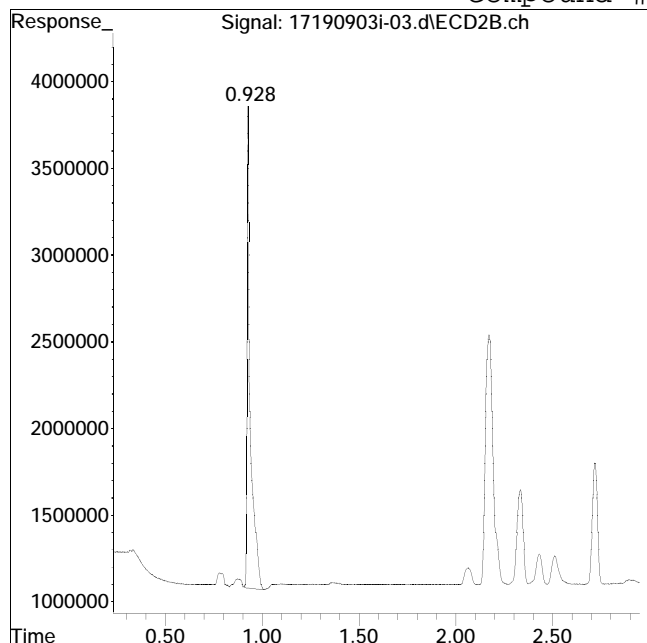
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-03.d
Date Inj'd : 9/3/2019 11:26 am
Sample : il2herb,42e,,9271

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/5/2019 9:12 am

Compound #15: Dalapon #2



Original Peak Response = 32280548

Manual Peak Response = 39425221 M2

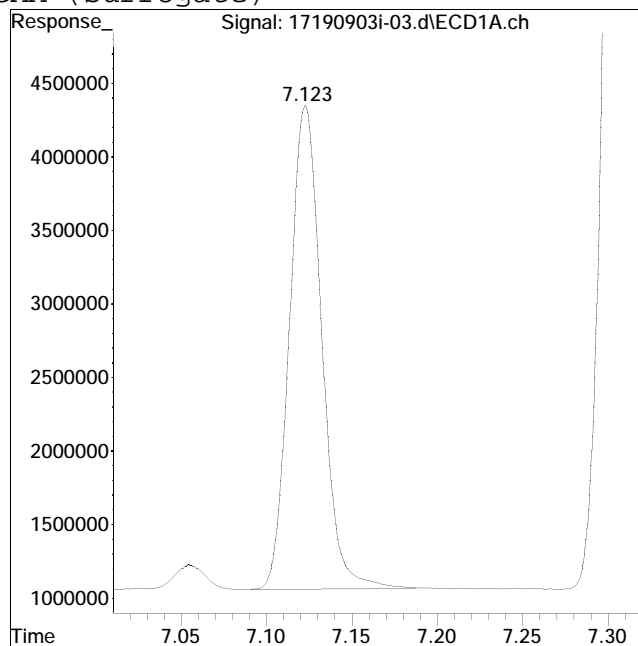
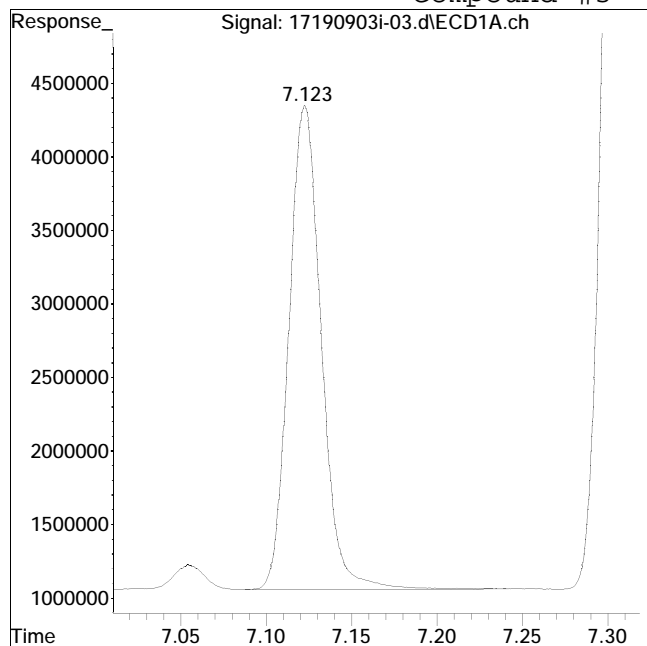
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-03.d
Date Inj'd : 9/3/2019 11:26 am
Sample : il2herb,42e,,9271

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/5/2019 9:12 am

Compound #3: DCAA (surrogate)



Original Peak Response = 43337022

Manual Peak Response = 42983234 M4

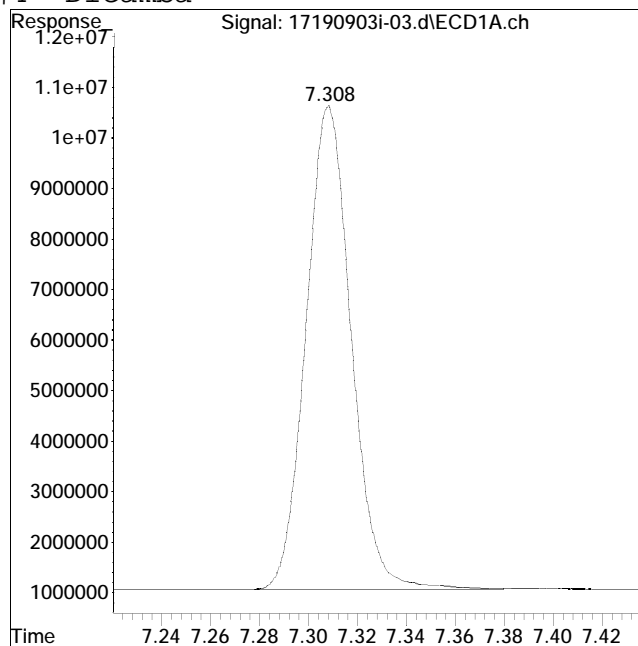
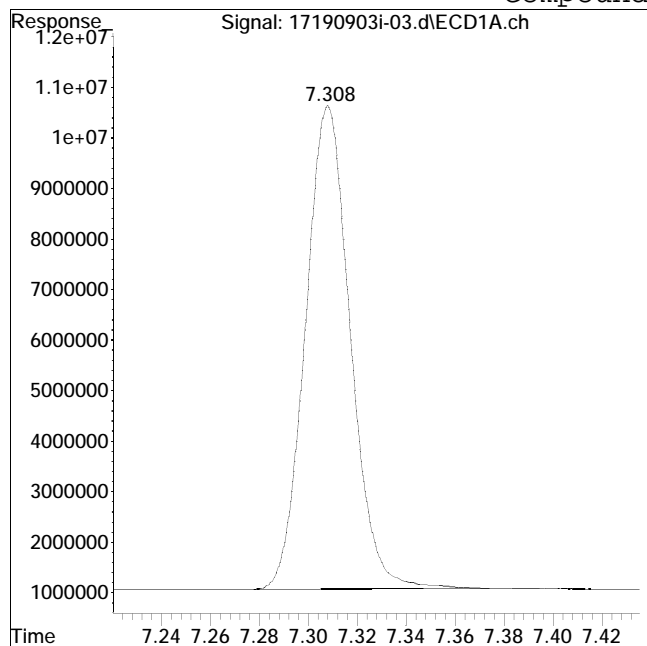
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-03.d
Date Inj'd : 9/3/2019 11:26 am
Sample : il2herb,42e,,9271

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/5/2019 9:12 am

Compound #4: Dicamba



Original Peak Response = 121887525

Manual Peak Response = 122759712 M4

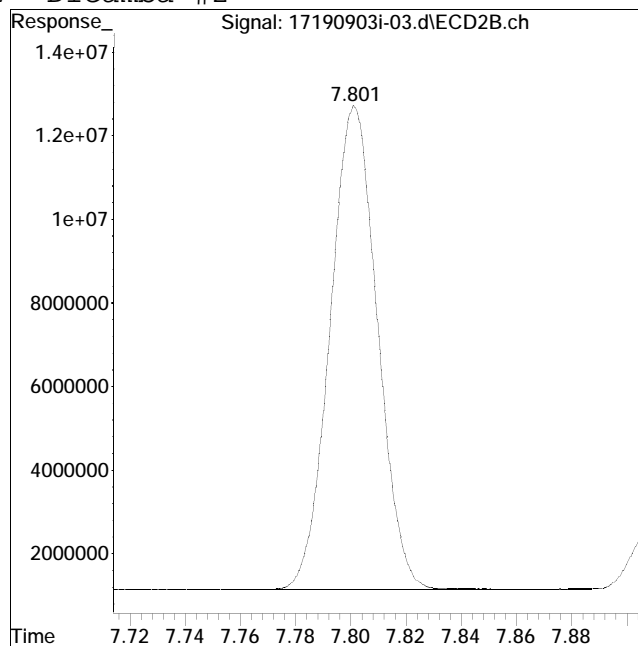
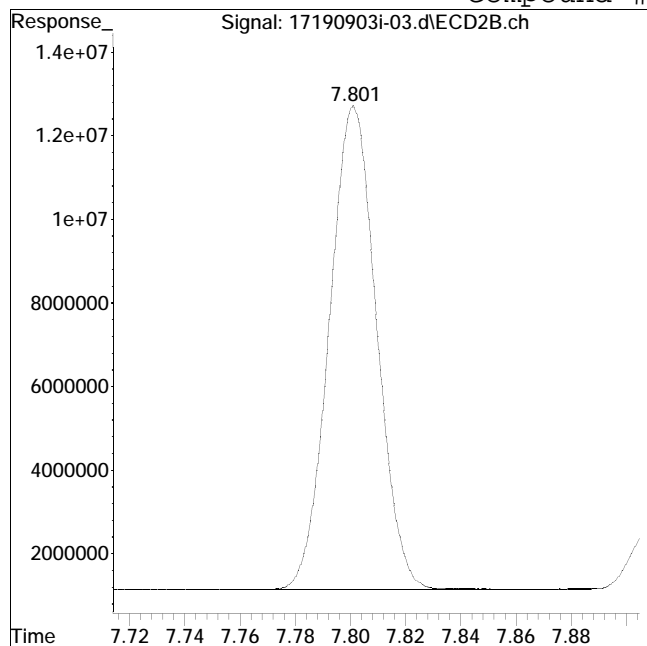
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-03.d
Date Inj'd : 9/3/2019 11:26 am
Sample : il2herb,42e,,9271

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/5/2019 9:12 am

Compound #17: Dicamba #2



Original Peak Response = 137576333

Manual Peak Response = 137760072 M4

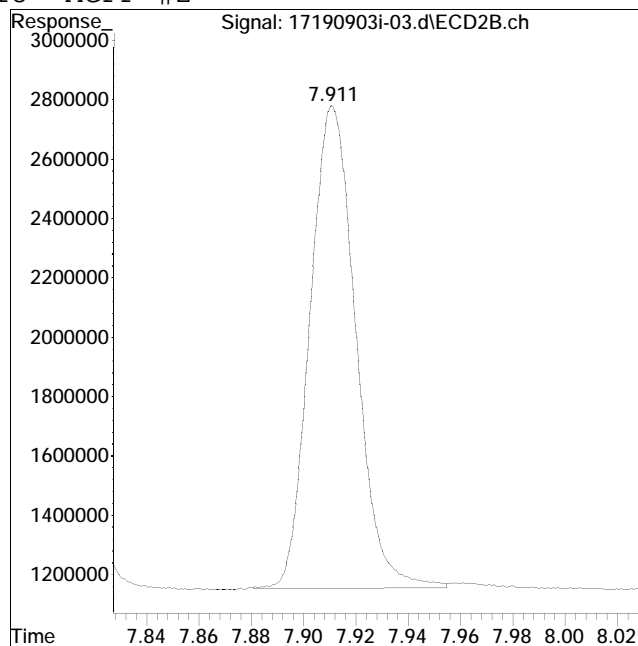
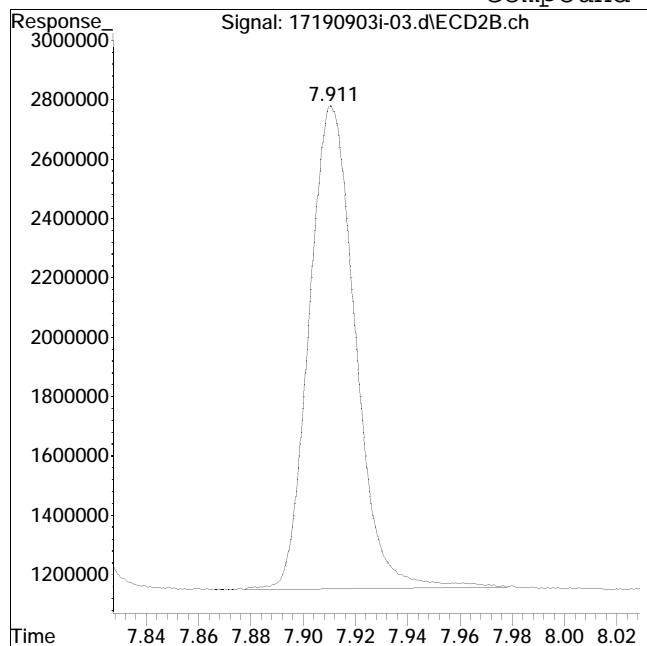
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-03.d
Date Inj'd : 9/3/2019 11:26 am
Sample : il2herb,42e,,9271

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/5/2019 9:12 am

Compound #18: MCPP #2



Original Peak Response = 19906580

Manual Peak Response = 19687484 M4

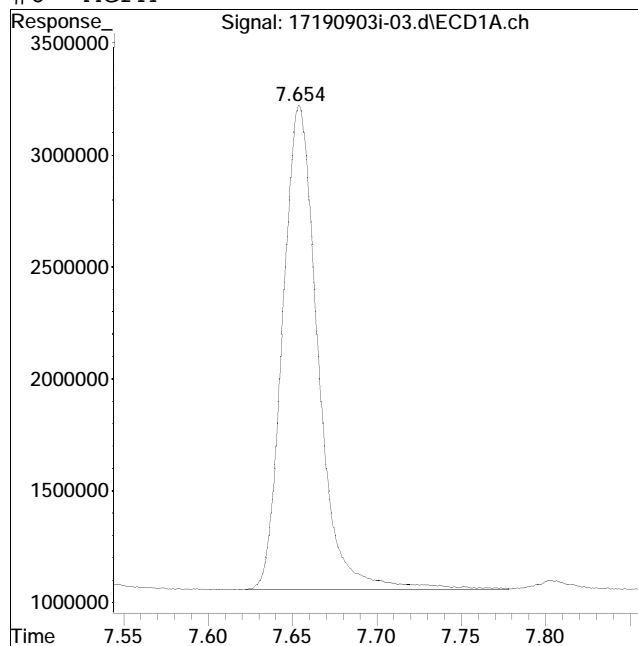
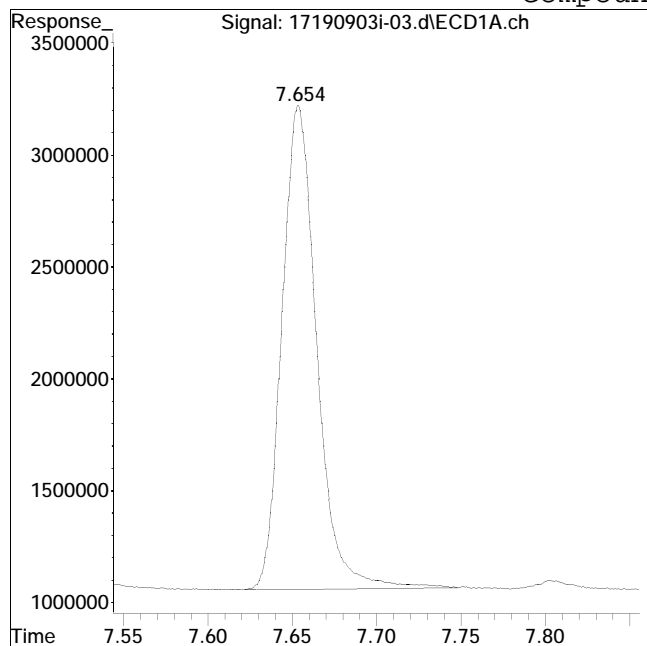
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-03.d
Date Inj'd : 9/3/2019 11:26 am
Sample : il2herb,42e,,9271

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/5/2019 9:12 am

Compound #6: MCPA



Original Peak Response = 30945242

Manual Peak Response = 31513925 M4

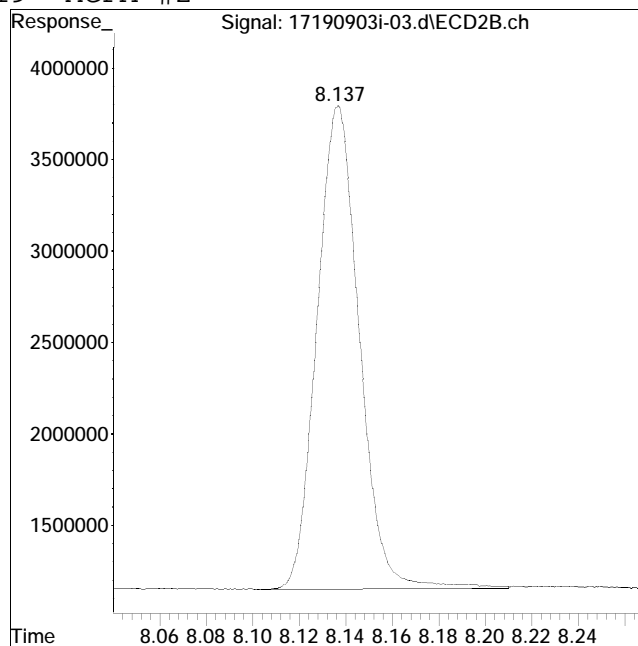
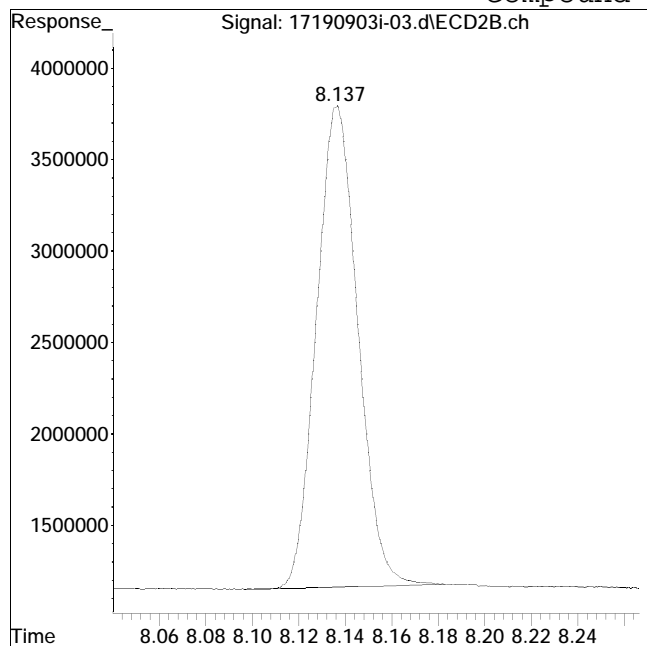
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-03.d
Date Inj'd : 9/3/2019 11:26 am
Sample : il2herb,42e,,9271

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/5/2019 9:12 am

Compound #19: MCPA #2



Original Peak Response = 32590205

Manual Peak Response = 33492810 M4

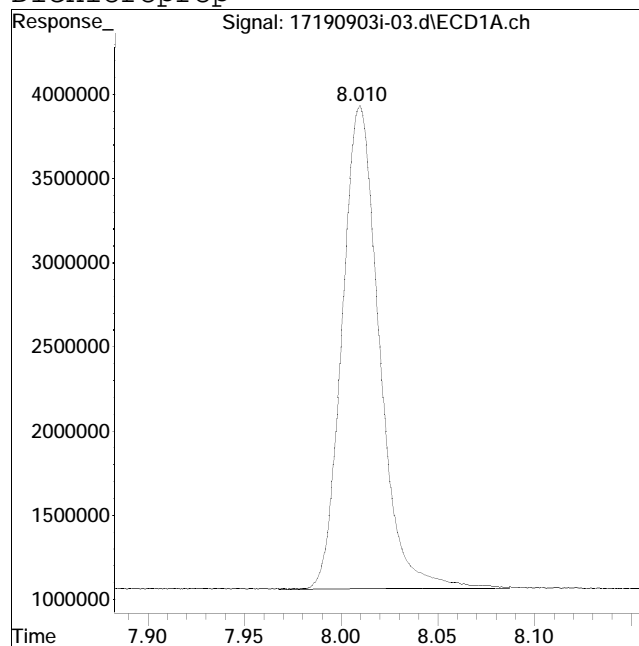
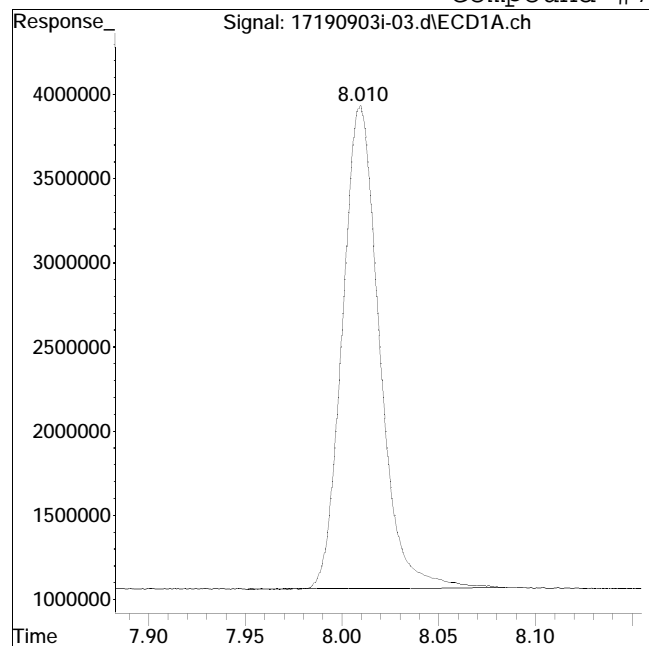
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-03.d
Date Inj'd : 9/3/2019 11:26 am
Sample : il2herb,42e,,9271

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/5/2019 9:12 am

Compound #7: Dichloroprop



Original Peak Response = 38093117

Manual Peak Response = 38466913 M4

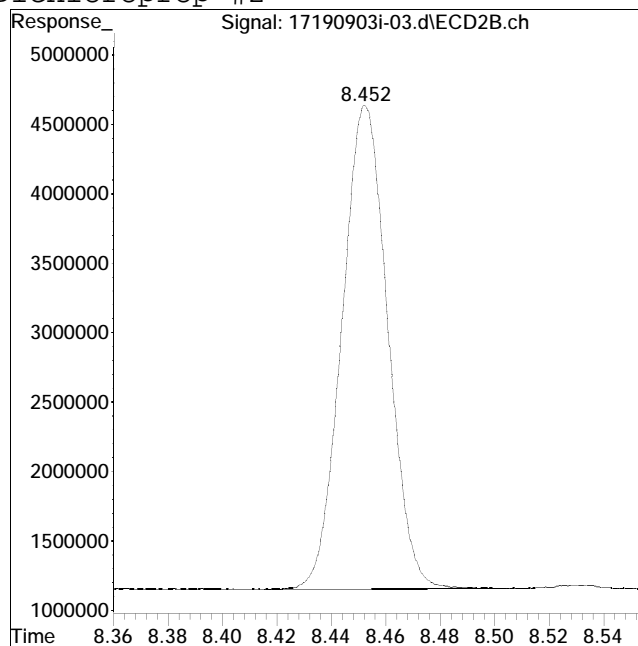
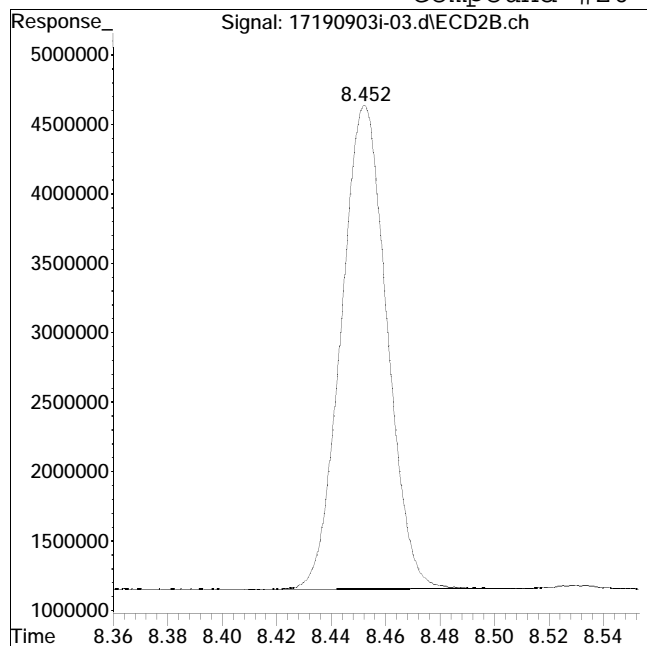
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-03.d
Date Inj'd : 9/3/2019 11:26 am
Sample : il2herb,42e,,9271

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/5/2019 9:12 am

Compound #20: Dichloroprop #2



Original Peak Response = 40639894

Manual Peak Response = 40750478 M4

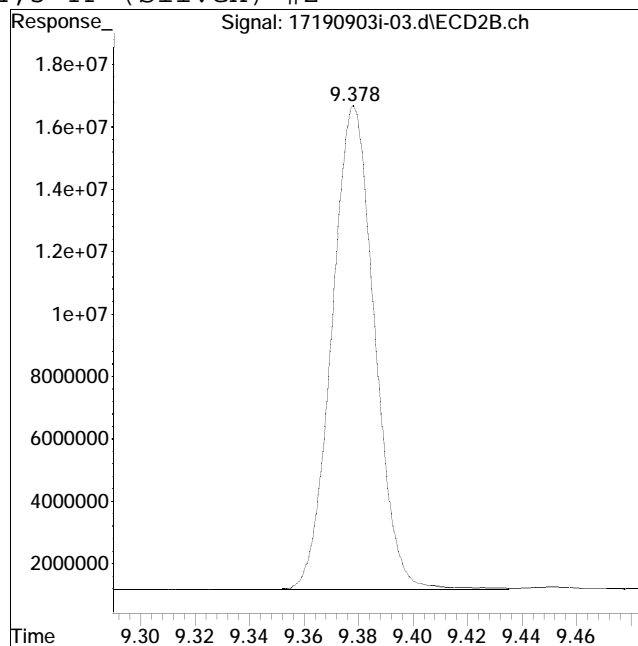
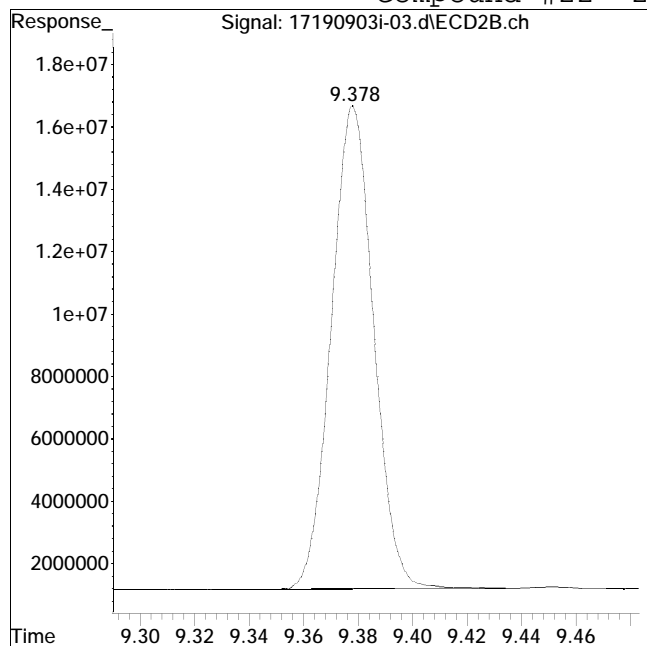
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-03.d
Date Inj'd : 9/3/2019 11:26 am
Sample : il2herb,42e,,9271

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/5/2019 9:12 am

Compound #22: 2,4,5-TP (Silvex) #2



Original Peak Response = 167005006

Manual Peak Response = 168628560 M4

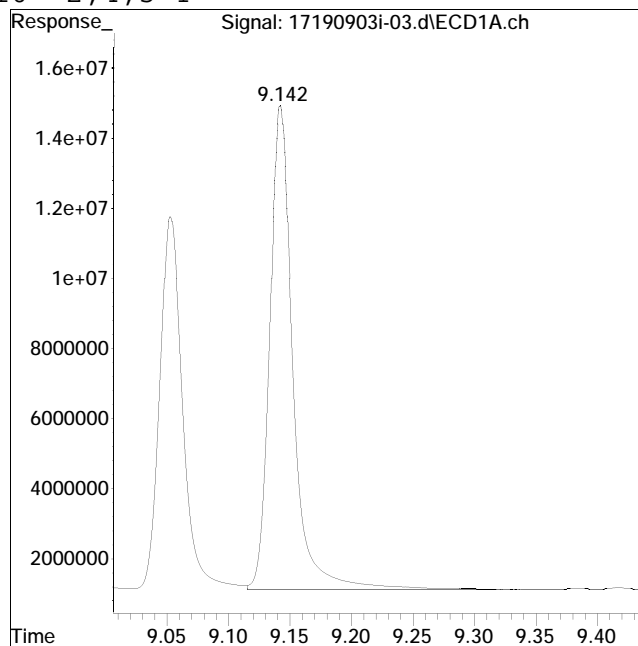
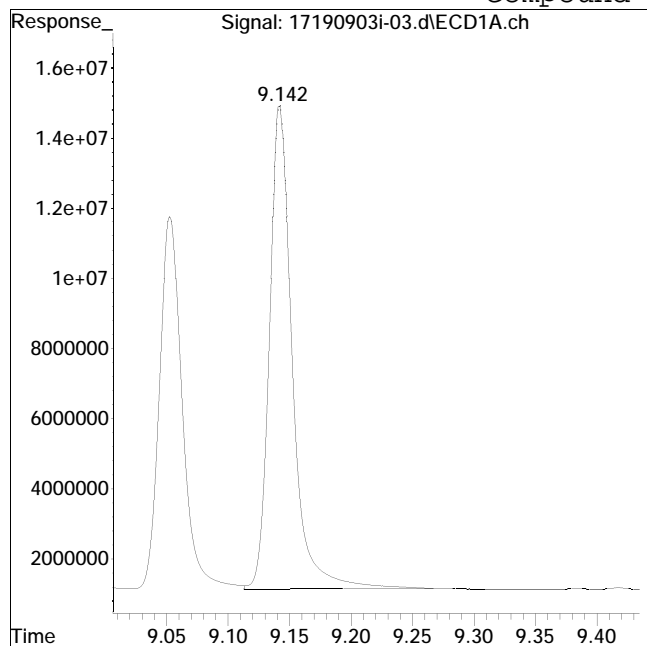
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-03.d
Date Inj'd : 9/3/2019 11:26 am
Sample : il2herb,42e,,9271

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/5/2019 9:12 am

Compound #10: 2,4,5-T



Original Peak Response = 179056422

Manual Peak Response = 182454801 M4

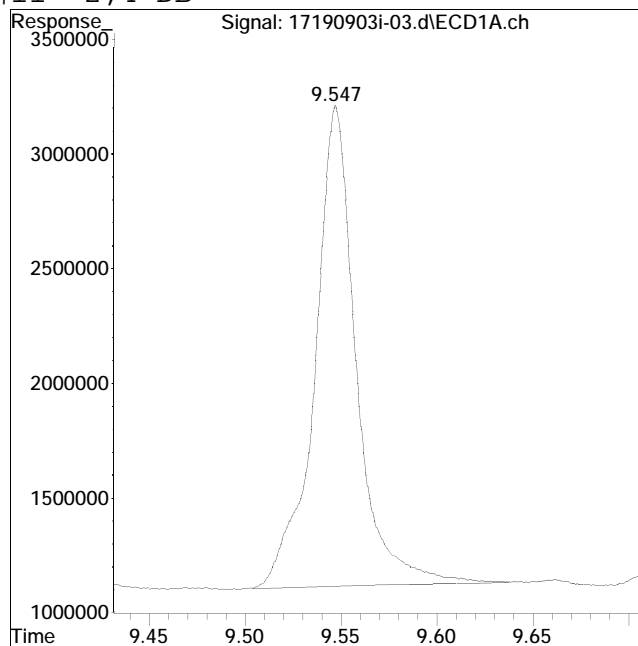
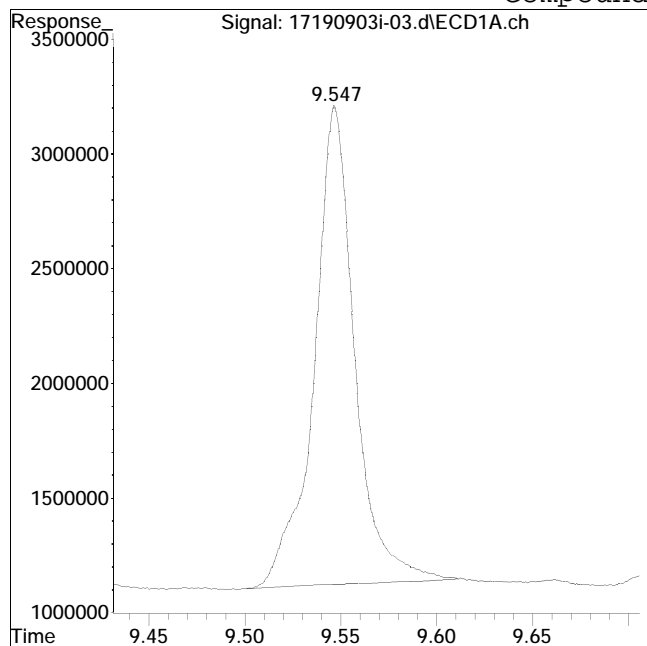
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-03.d
Date Inj'd : 9/3/2019 11:26 am
Sample : il2herb,42e,,9271

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/5/2019 9:12 am

Compound #11: 2,4-DB



Original Peak Response = 30763697

Manual Peak Response = 31629623 M4

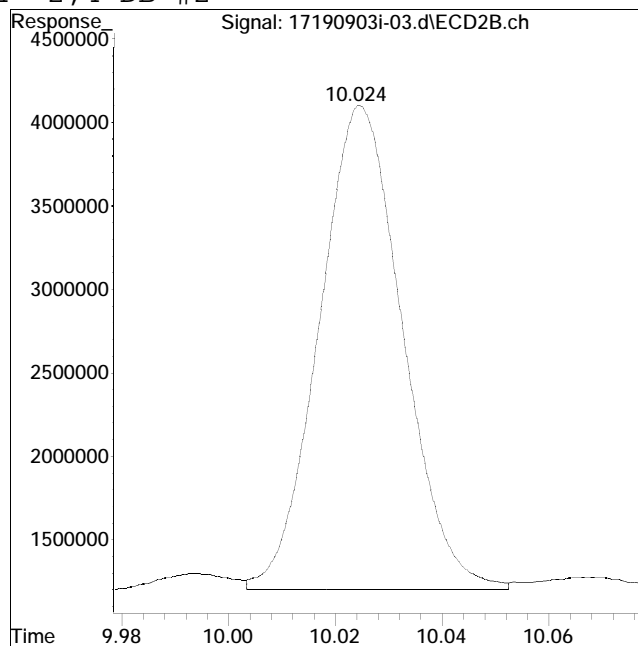
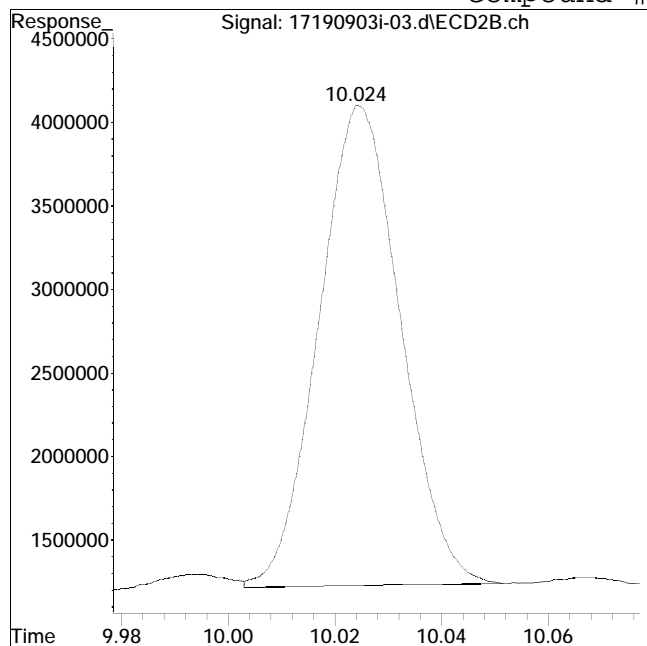
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-03.d
Date Inj'd : 9/3/2019 11:26 am
Sample : il2herb,42e,,9271

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/5/2019 9:12 am

Compound #24: 2,4-DB #2



Original Peak Response = 30579207

Manual Peak Response = 31438129 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\190903ICAL\
 Data File : 17190903i-04.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 3 Sep 2019 11:45 am
 Operator : PEST17:dgm
 Sample : il3herb,42e,,9272
 Misc : wgl280590, (Sig #1); ical (Sig #2)
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Sep 04 15:55:53 2019
 Quant Method : I:\Pest17\190903ICAL\Herb17_07_31_ICAL.m
 Quant Title : herb
 QLast Update : Wed Sep 04 13:50:27 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Internal Standards							
1) i	4,4'-DFOB	8.656	8.682	672.4E6	657.3E6	0.250	0.250
System Monitoring Compounds							
3) s	DCAA (surrog	7.122	7.618	86890283	101.8E6	0.206	0.201M4
	Spiked Amount	0.500	Range 30 - 150	Recovery =		41.20%	40.20%
Target Compounds							
2) t	Dalapon	2.102f	2.169f	68617729	70695643	0.438M2	0.422M2
4) t	Dicamba	7.307	7.801	243.2E6	268.1E6	0.170M4	0.172
5) t	MCP P	7.508	7.911	33044233	37891826	18.676M4	17.930M4
6) t	MCP A	7.653	8.136	55301096	61235557	19.774M4	18.408M4
7) t	Dichloroprop	8.009	8.452	73748698	78343038	0.182	0.176M4
8) t	2,4-D	8.216	8.723	91763674	104.4E6	0.176	0.171
9) t	2,4,5-TP (Si	8.927	9.379	348.1E6	338.0E6	0.173	0.169
10) t	2,4,5-T	9.140	9.664	378.0E6	329.3E6	0.172M4	0.166
11) t	2,4-DB	9.545	10.025	61776513	61215994	0.177M4	0.172
12) t	Dinoseb	10.287	10.248	119.7E6	117.2E6	0.153	0.165

SemiQuant Compounds - Not Calibrated on this Instrument

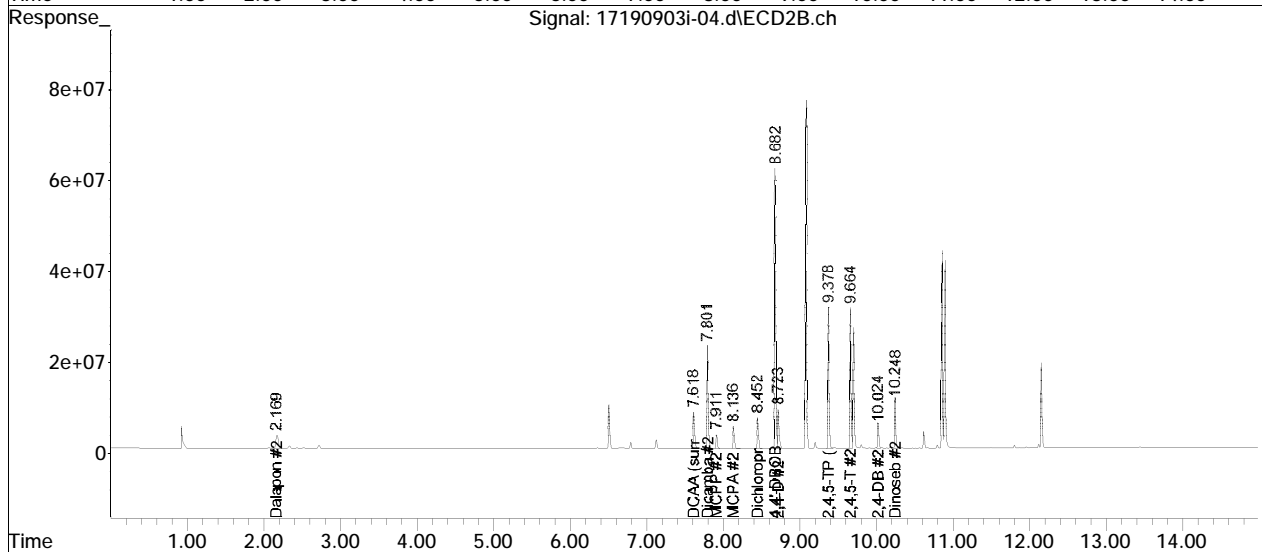
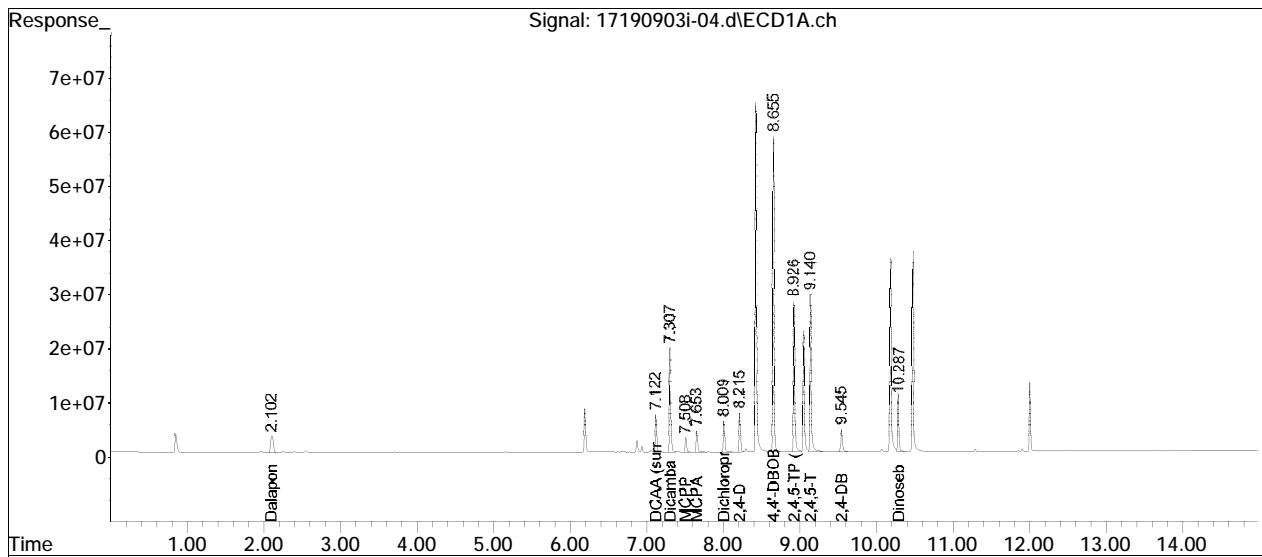
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coeluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Sep 2019 11:45 am
Operator : PEST17:dgm
Sample : il3herb,42e,,9272
Misc : wg1280590, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 04 15:55:53 2019
Quant Method : I:\Pest17\190903ICAL\Herb17_07_31_ICAL.m
Quant Title : herb
QLast Update : Wed Sep 04 13:50:27 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

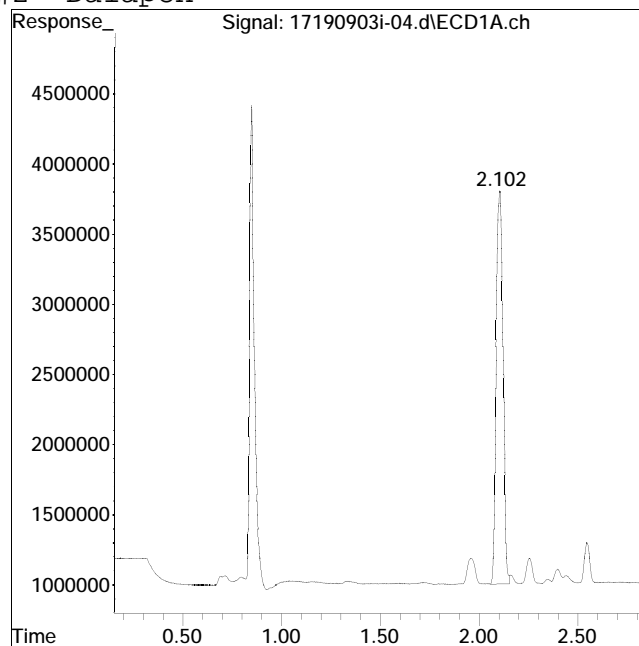
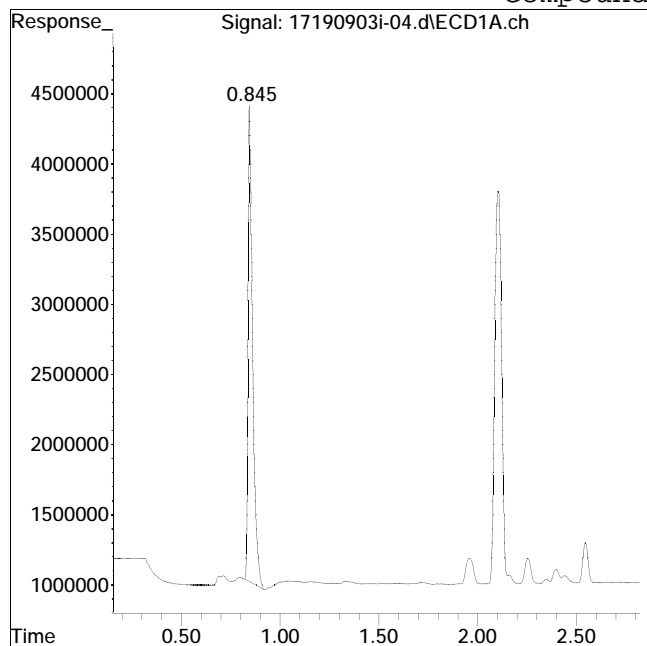


Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-04.d
Date Inj'd : 9/3/2019 11:45 am
Sample : il3herb,42e,,9272

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 1:52 pm

Compound #2: Dalapon



Original Peak Response = 55273212

Manual Peak Response = 68617729 M2

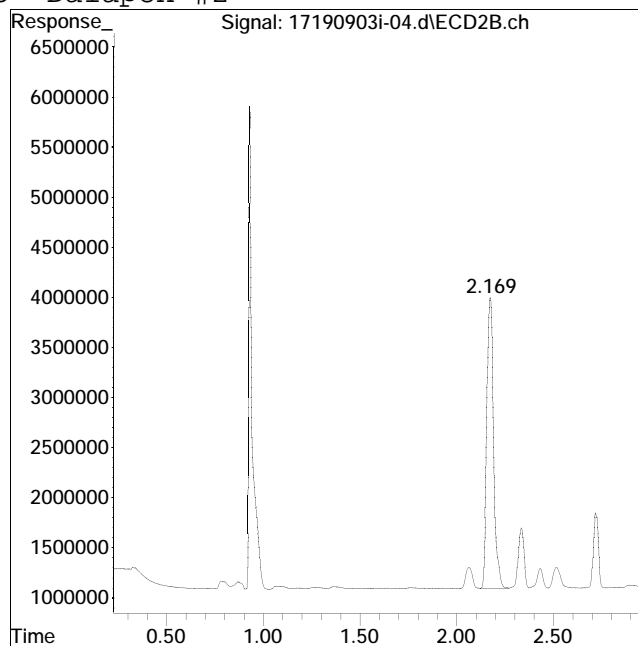
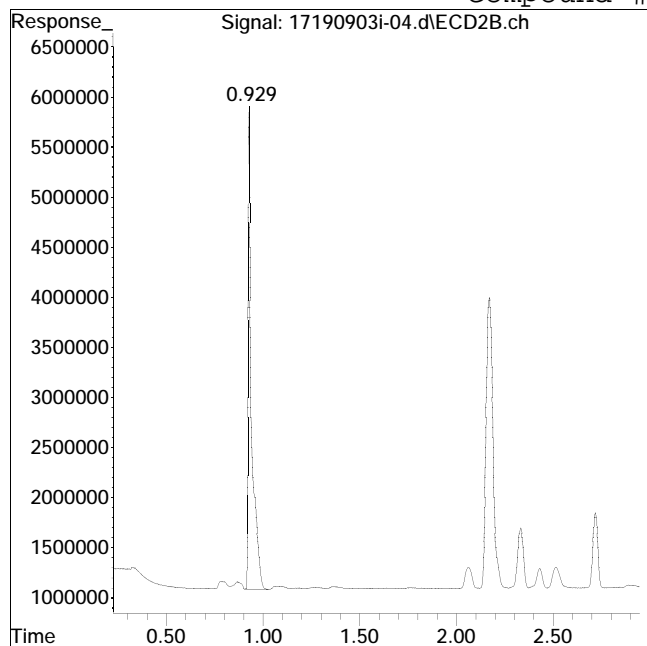
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-04.d
Date Inj'd : 9/3/2019 11:45 am
Sample : il3herb,42e,,9272

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 1:52 pm

Compound #15: Dalapon #2



Original Peak Response = 56954003

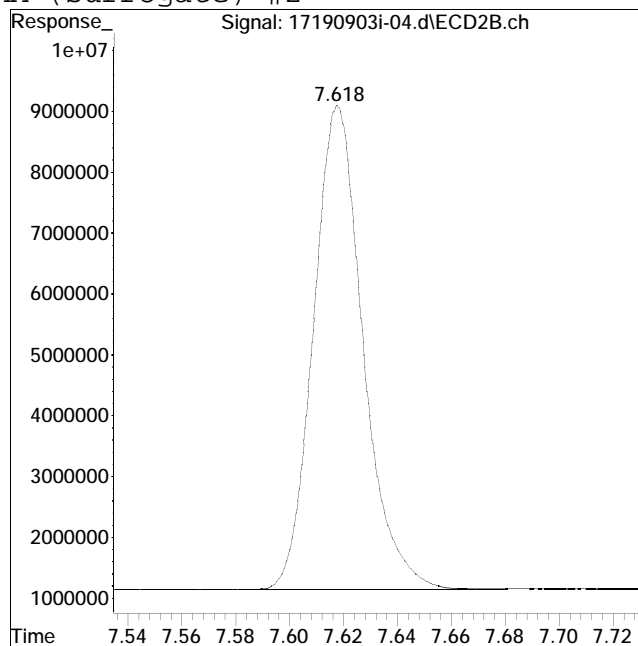
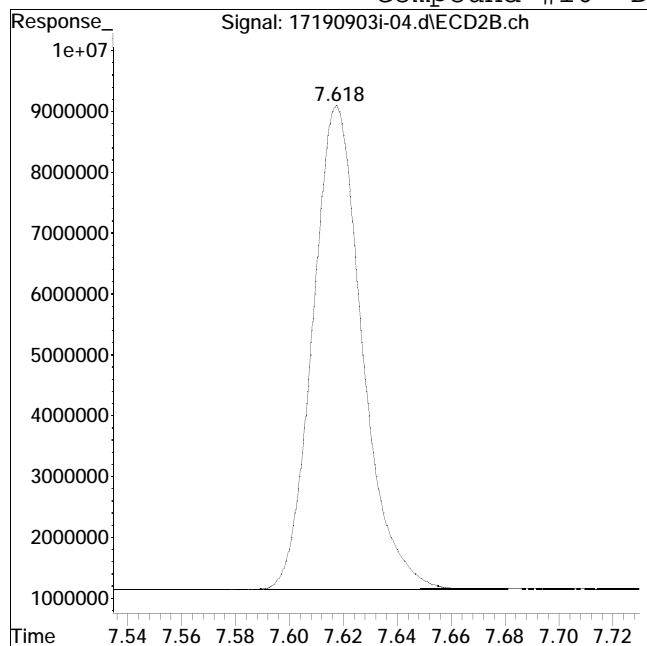
Manual Peak Response = 70695643 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\ QMethod : Herb17_07_31_ICAL.m
Data File : 17190903i-04.d Operator : PEST17:dgm
Date Inj'd : 9/3/2019 11:45 am Instrument : Pest 17
Sample : il3herb,42e,,9272 Quant Date : 9/4/2019 1:52 pm

Compound #16: DCAA (surrogate) #2



Original Peak Response = 101393077

Manual Peak Response = 101751888 M4

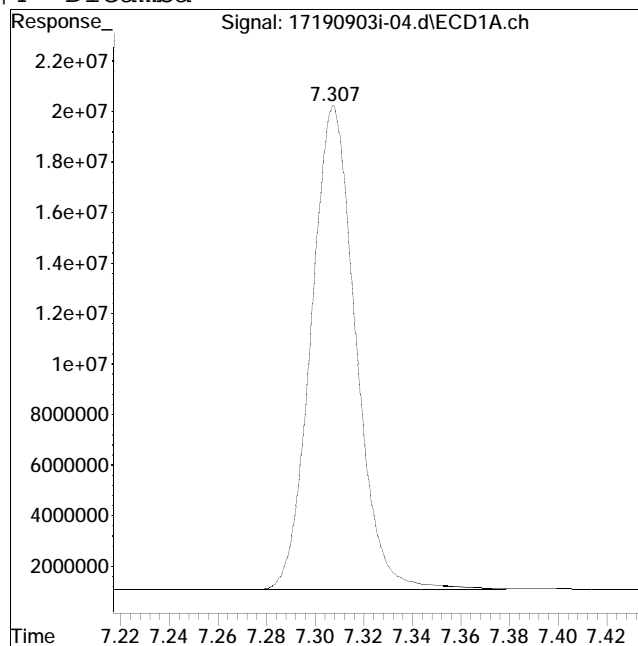
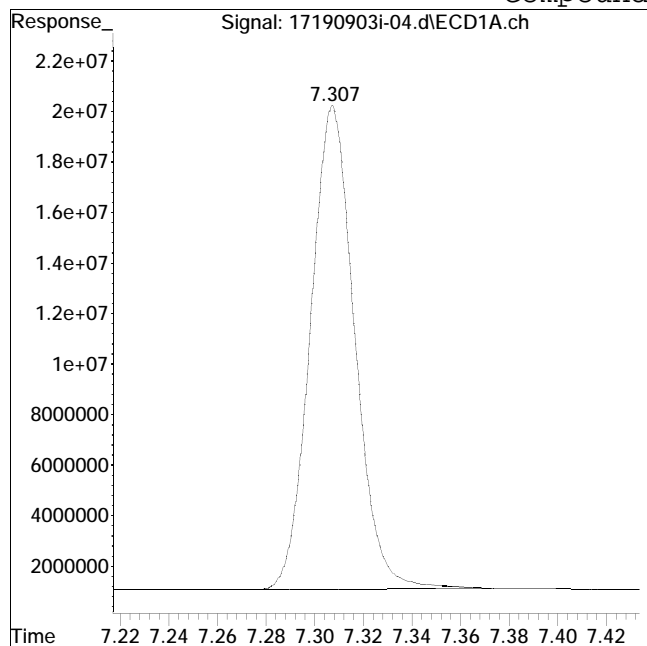
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-04.d
Date Inj'd : 9/3/2019 11:45 am
Sample : il3herb,42e,,9272

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 1:52 pm

Compound #4: Dicamba



Original Peak Response = 241722601

Manual Peak Response = 243218537 M4

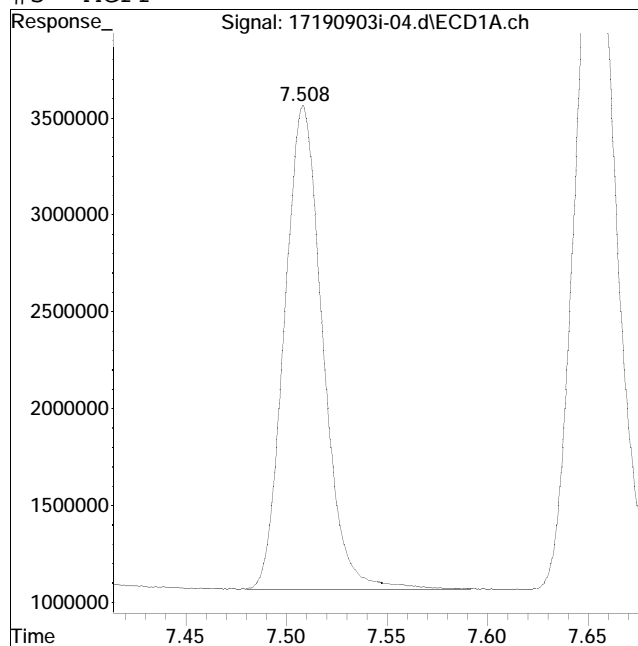
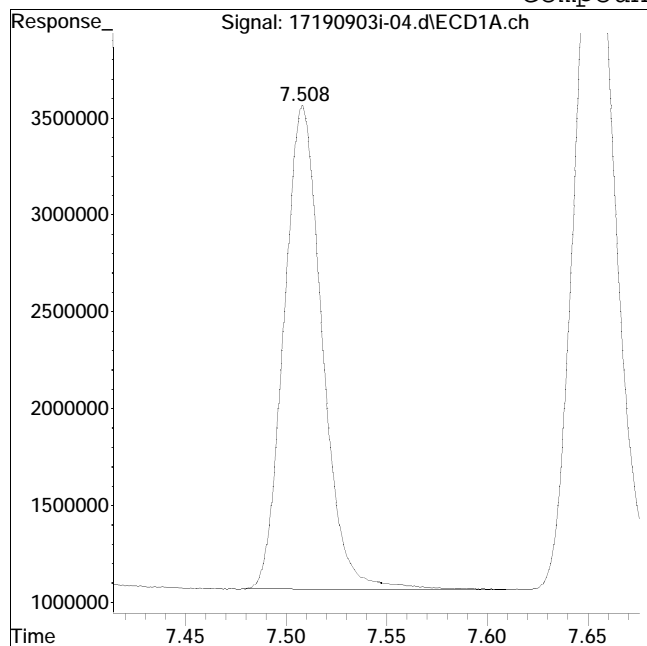
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-04.d
Date Inj'd : 9/3/2019 11:45 am
Sample : il3herb,42e,,9272

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 1:52 pm

Compound #5: MCPP



Original Peak Response = 33042507

Manual Peak Response = 33044233 M4

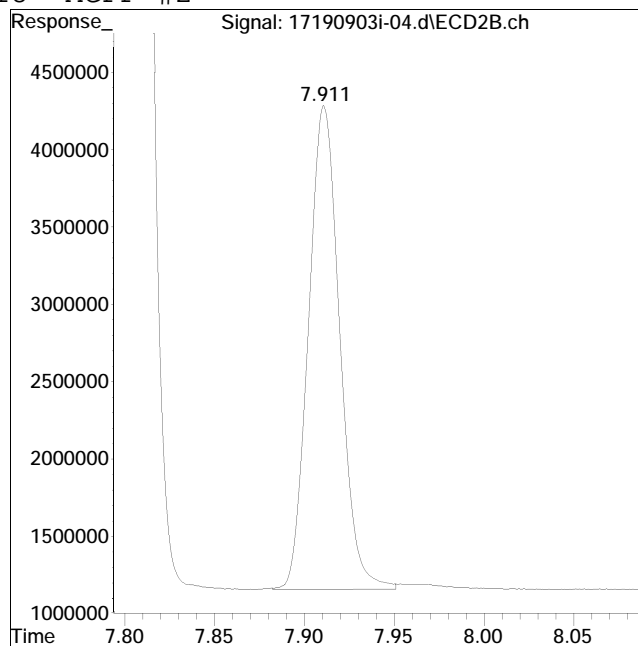
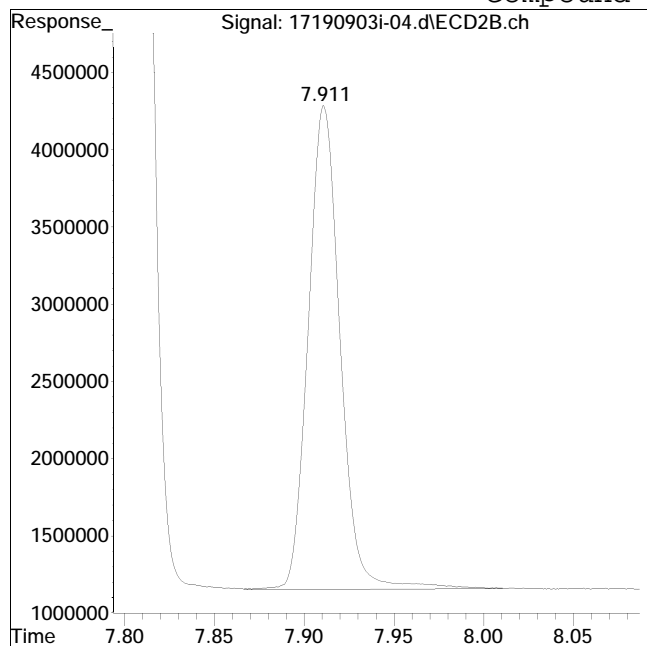
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-04.d
Date Inj'd : 9/3/2019 11:45 am
Sample : il3herb,42e,,9272

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 1:52 pm

Compound #18: MCPP #2



Original Peak Response = 38818784

Manual Peak Response = 37891826 M4

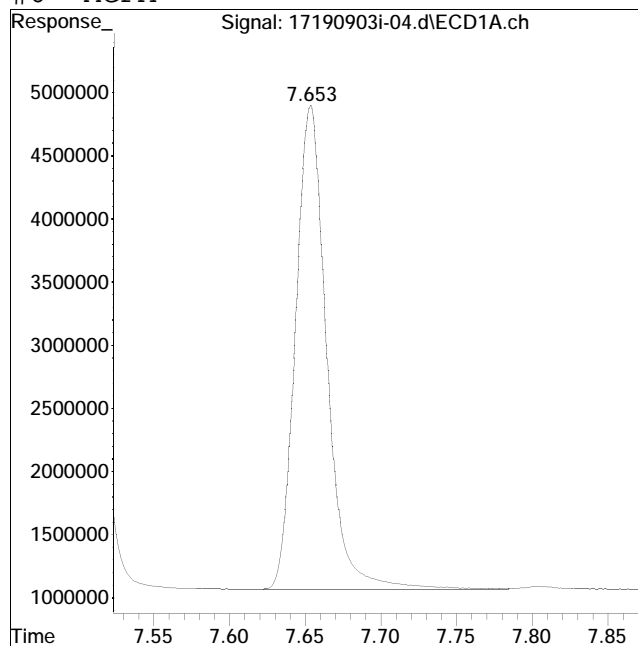
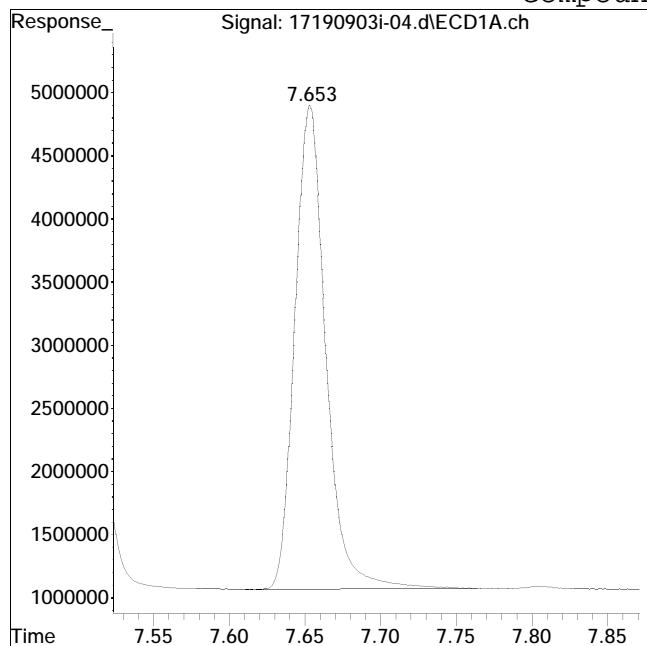
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-04.d
Date Inj'd : 9/3/2019 11:45 am
Sample : il3herb,42e,,9272

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 1:52 pm

Compound #6: MCPA



Original Peak Response = 54820450

Manual Peak Response = 55301096 M4

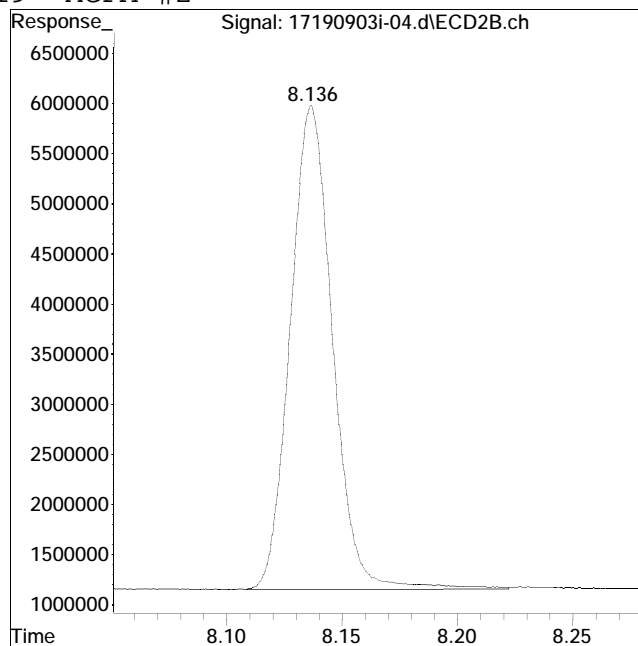
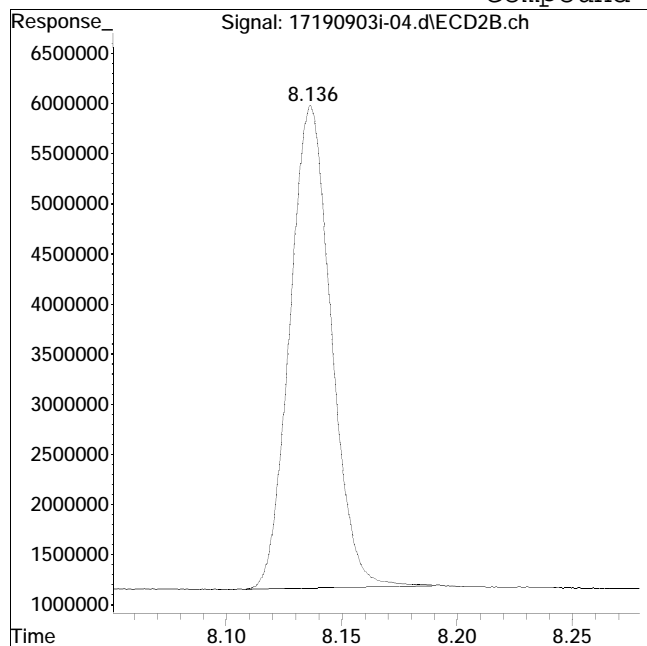
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-04.d
Date Inj'd : 9/3/2019 11:45 am
Sample : il3herb,42e,,9272

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 1:52 pm

Compound #19: MCPA #2



Original Peak Response = 59868477

Manual Peak Response = 61235557 M4

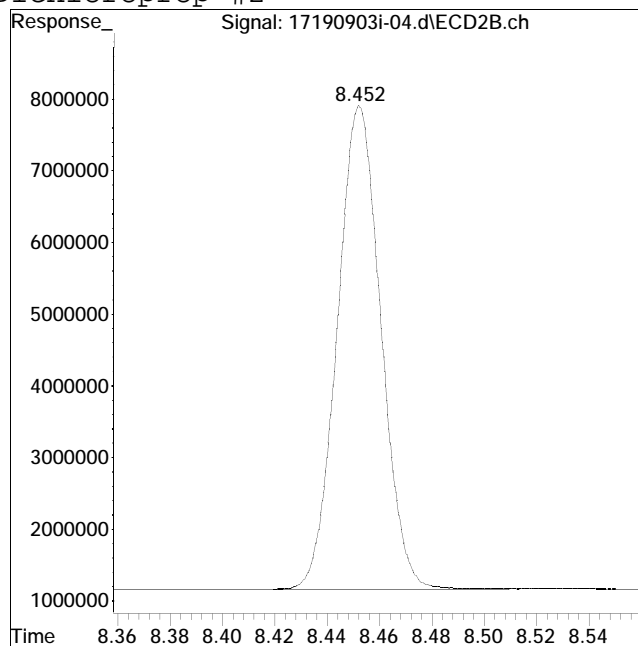
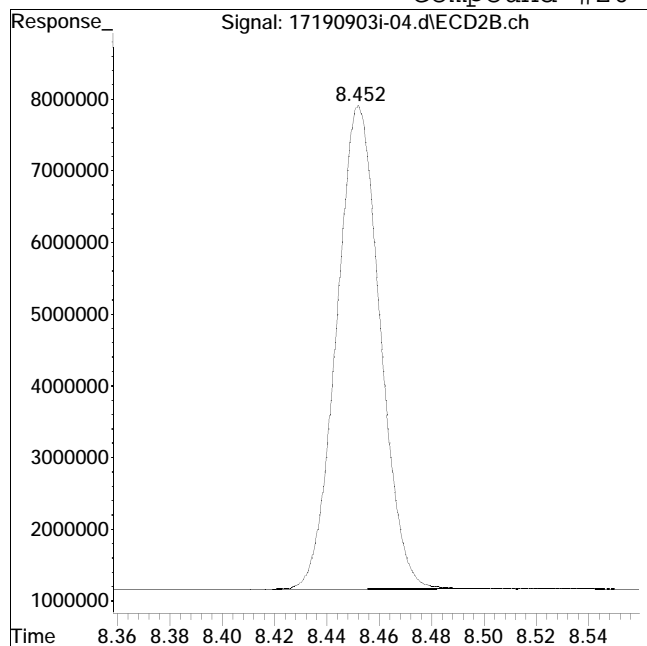
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-04.d
Date Inj'd : 9/3/2019 11:45 am
Sample : il3herb,42e,,9272

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 1:52 pm

Compound #20: Dichloroprop #2



Original Peak Response = 77950963

Manual Peak Response = 78343038 M4

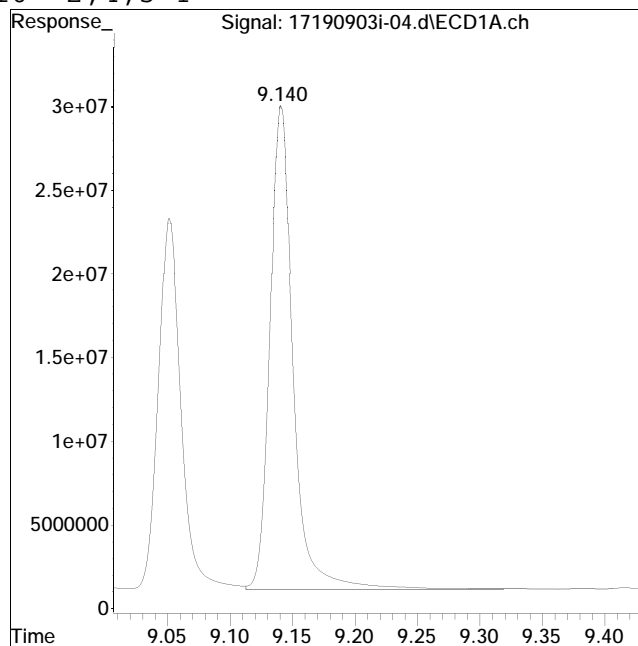
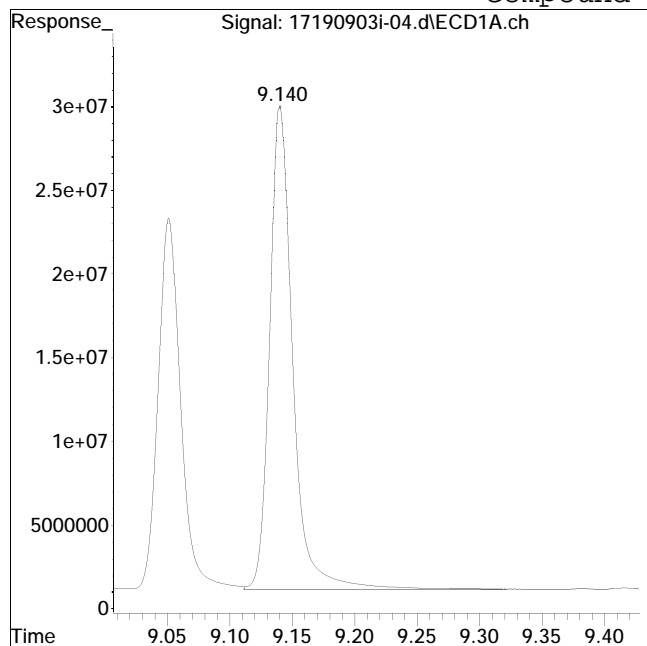
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-04.d
Date Inj'd : 9/3/2019 11:45 am
Sample : il3herb,42e,,9272

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 1:52 pm

Compound #10: 2,4,5-T



Original Peak Response = 375426630

Manual Peak Response = 377976881 M4

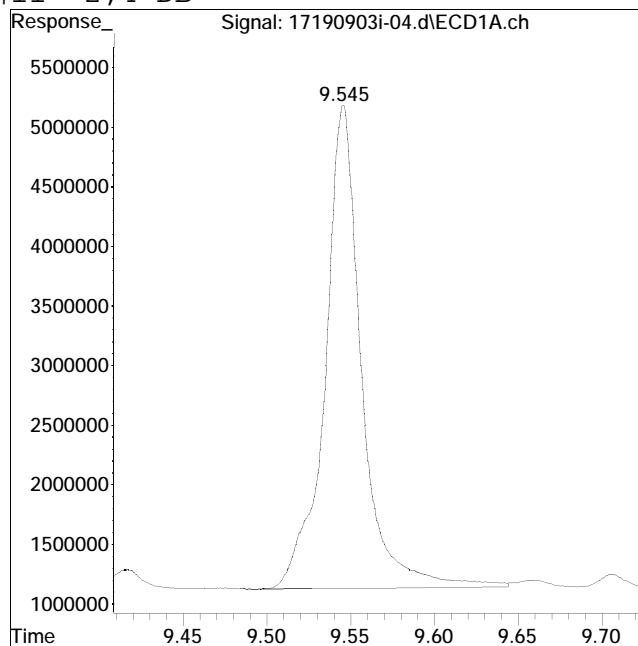
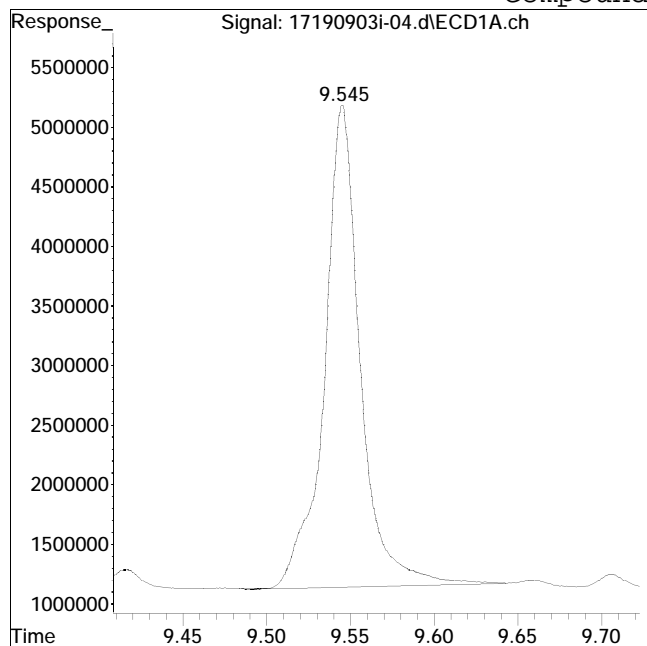
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-04.d
Date Inj'd : 9/3/2019 11:45 am
Sample : il3herb,42e,,9272

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 1:52 pm

Compound #11: 2,4-DB



Original Peak Response = 60354331

Manual Peak Response = 61776513 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\190903ICAL\
 Data File : 17190903i-05.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 3 Sep 2019 12:04 pm
 Operator : PEST17:dgm
 Sample : il4herb,42e,,9273
 Misc : wgl280590, (Sig #1); ical (Sig #2)
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Sep 04 15:38:50 2019
 Quant Method : I:\Pest17\190903ICAL\Herb17_07_31_ICAL.m
 Quant Title : herb
 QLast Update : Wed Sep 04 14:46:52 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Internal Standards							
1) i	4,4'-DFOB	8.653	8.682	678.0E6	644.6E6	0.250M4	0.250M4
System Monitoring Compounds							
3) s	DCAA (surrog	7.119	7.618	202.0E6	234.0E6	0.462	0.453M4
	Spiked Amount	0.500	Range 30 - 150	Recovery =		92.40%	90.60%
Target Compounds							
2) t	Dalapon	2.095f	2.164f	178.6E6	175.9E6	0.457M2	0.464M2
4) t	Dicamba	7.304	7.801	683.1E6	720.7E6	0.519M4	0.495
5) t	MCP P	7.506	7.912	84015838	98643361	48.003M4	48.199M4
6) t	MCPA	7.651	8.137	132.2E6	152.3E6	44.569M4	45.957M4
7) t	Dichloroprop	8.006	8.452	193.6E6	206.1E6	0.495	0.489M4
8) t	2,4-D	8.212	8.723	248.9E6	281.3E6	0.504	0.492
9) t	2,4,5-TP (Si	8.924	9.379	973.9E6	931.2E6	0.528	0.512
10) t	2,4,5-T	9.138	9.664	1068.5E6	922.6E6	0.543M4	0.499
11) t	2,4-DB	9.543	10.025	168.1E6	167.4E6	0.539M4	0.508
12) t	Dinoseb	10.285	10.249	379.1E6	330.1E6	0.550M4	0.509

SemiQuant Compounds - Not Calibrated on this Instrument

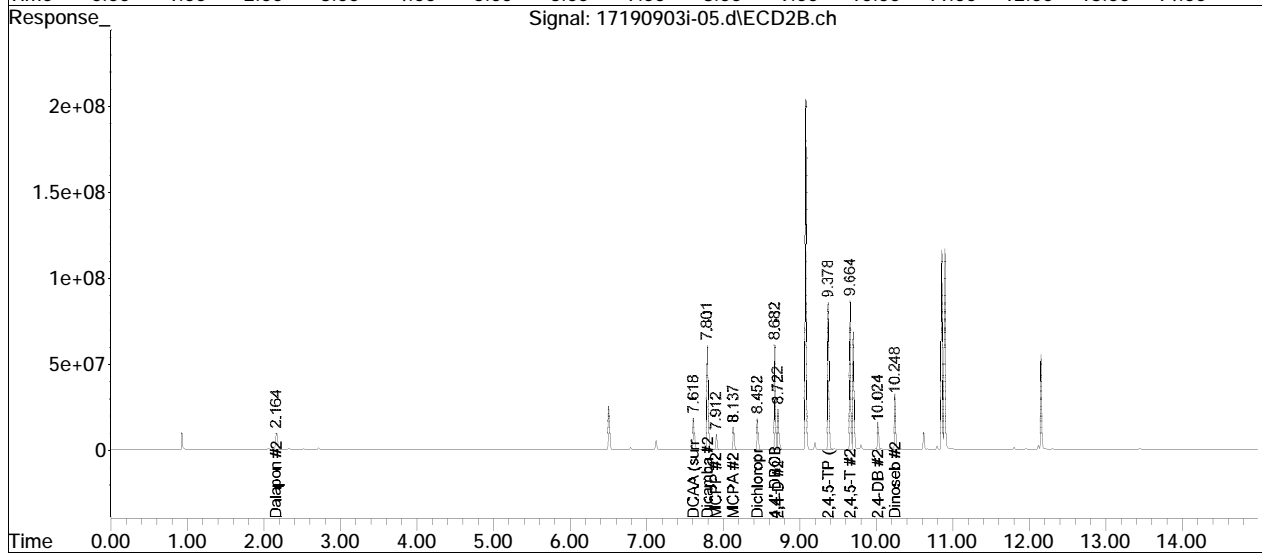
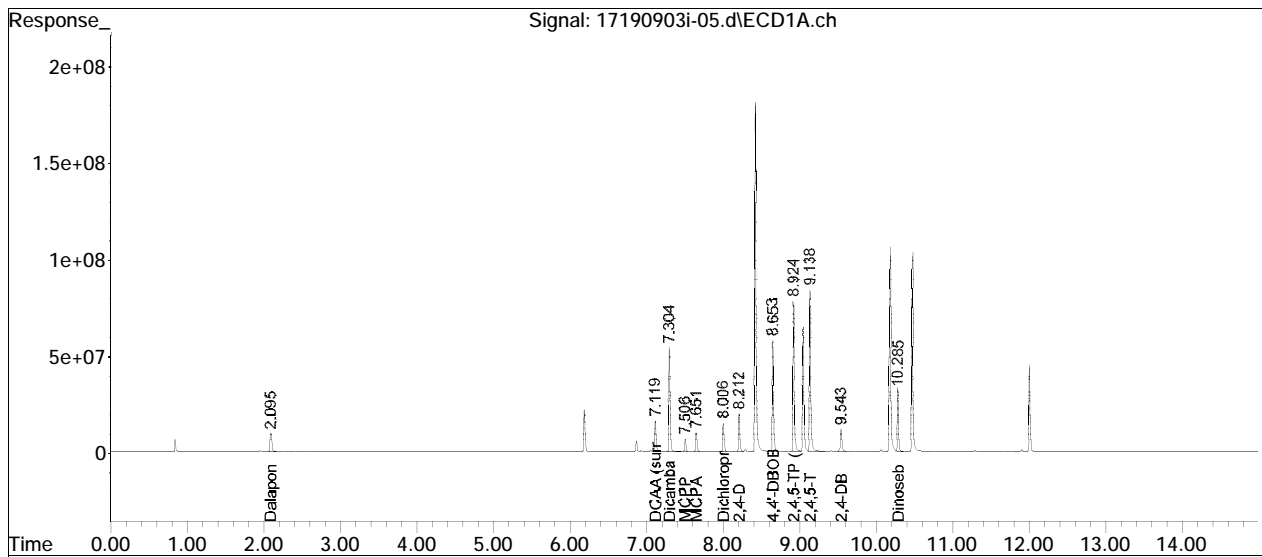
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coeluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Sep 2019 12:04 pm
Operator : PEST17:dgm
Sample : il4herb,42e,,9273
Misc : wg1280590, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 04 15:38:50 2019
Quant Method : I:\Pest17\190903ICAL\Herb17_07_31_ICAL.m
Quant Title : herb
QLast Update : Wed Sep 04 14:46:52 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

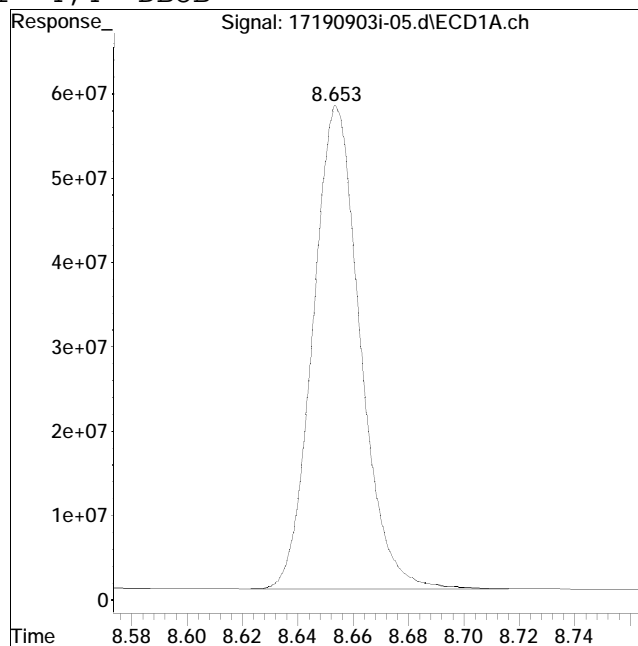
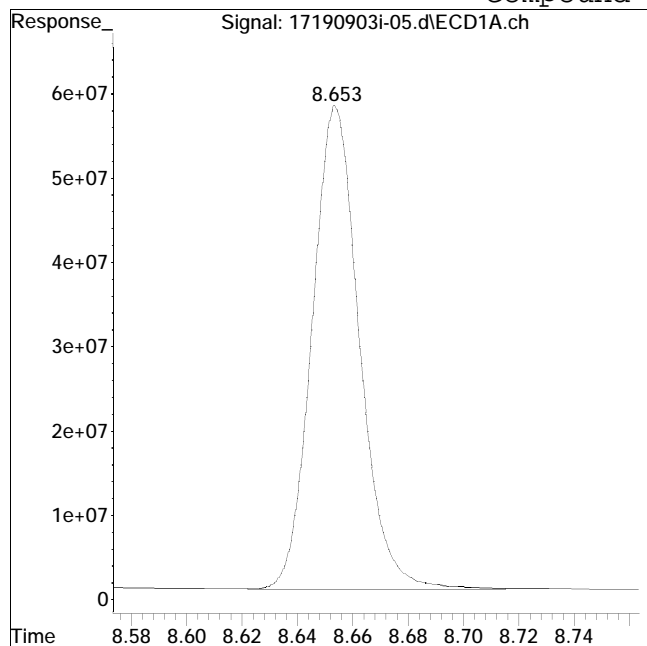


Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-05.d
Date Inj'd : 9/3/2019 12:04 pm
Sample : il4herb,42e,,9273

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:46 pm

Compound #1: 4,4'-DBOB



Original Peak Response = 683941196

Manual Peak Response = 677953459 M4

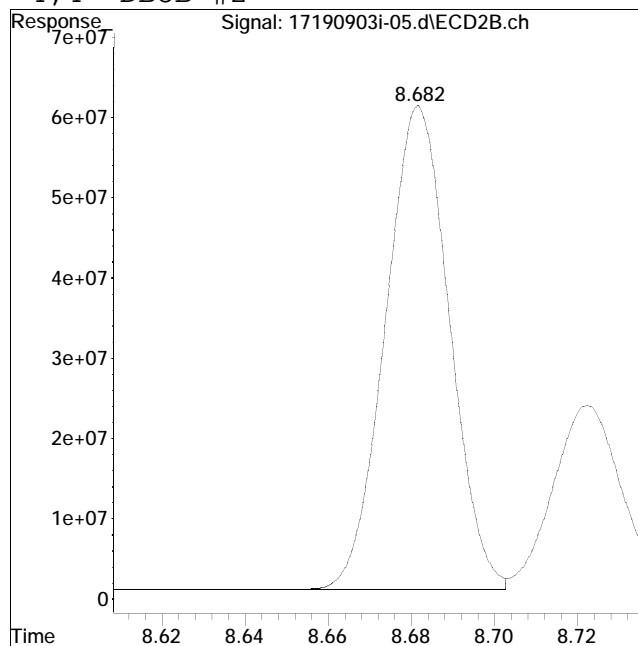
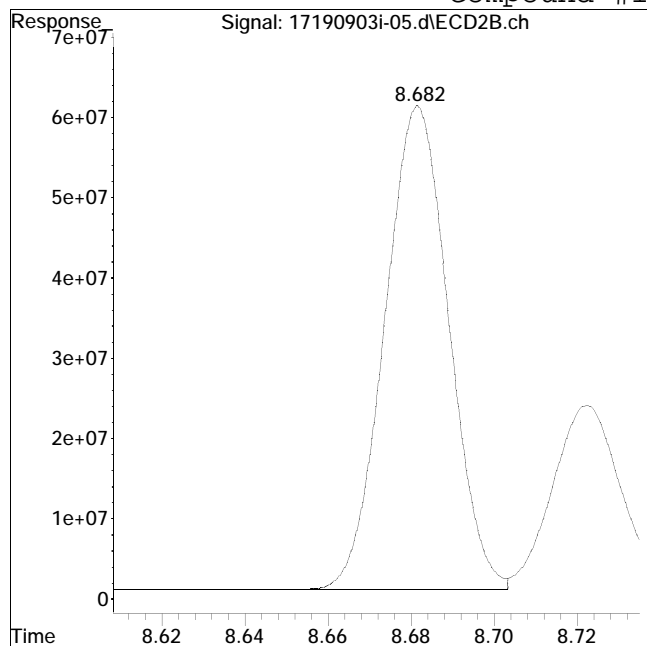
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-05.d
Date Inj'd : 9/3/2019 12:04 pm
Sample : il4herb,42e,,9273

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:46 pm

Compound #14: 4,4'-DBOB #2



Original Peak Response = 644667888

Manual Peak Response = 644609758 M4

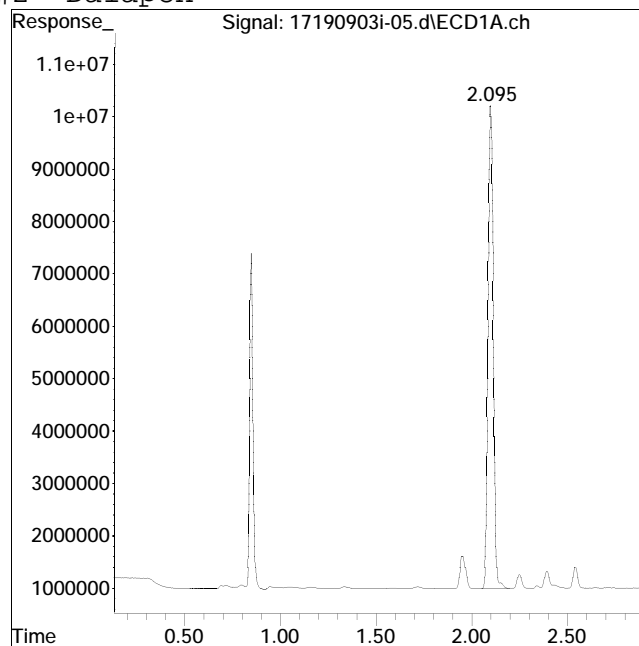
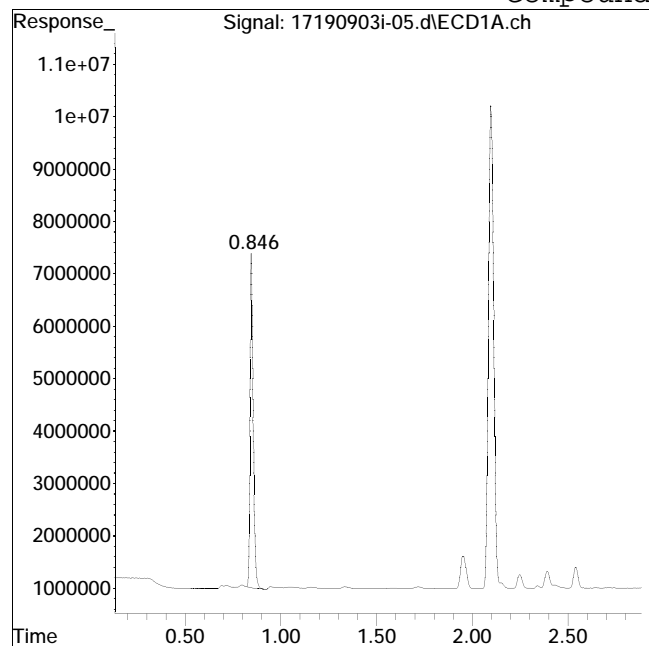
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-05.d
Date Inj'd : 9/3/2019 12:04 pm
Sample : il4herb,42e,,9273

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:46 pm

Compound #2: Dalapon



Original Peak Response = 72470944

Manual Peak Response = 178563050 M2

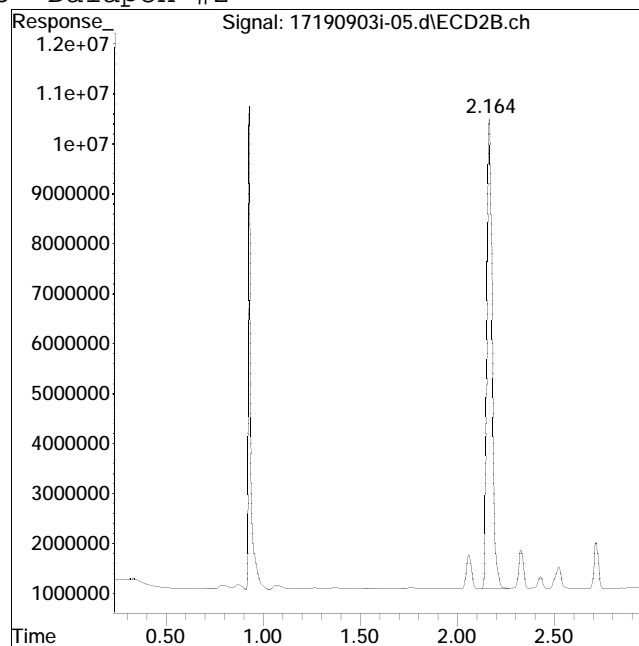
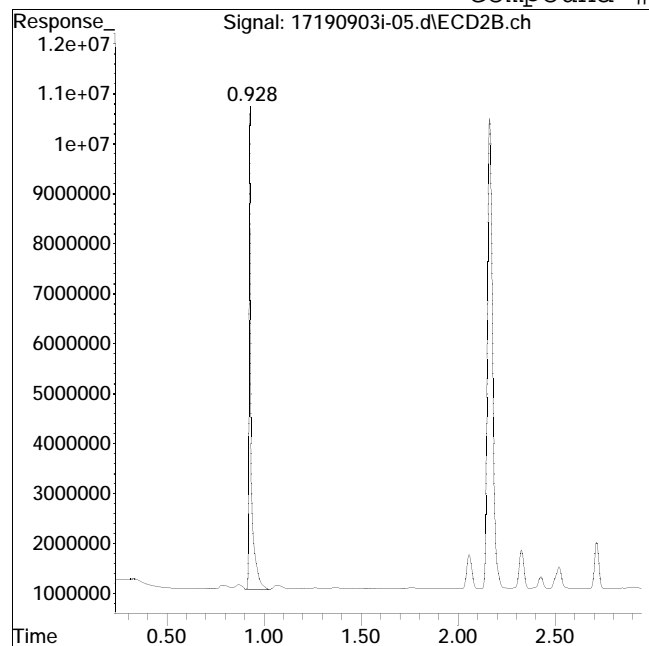
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-05.d
Date Inj'd : 9/3/2019 12:04 pm
Sample : il4herb,42e,,9273

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:46 pm

Compound #15: Dalapon #2



Original Peak Response = 74706417

Manual Peak Response = 175897309 M2

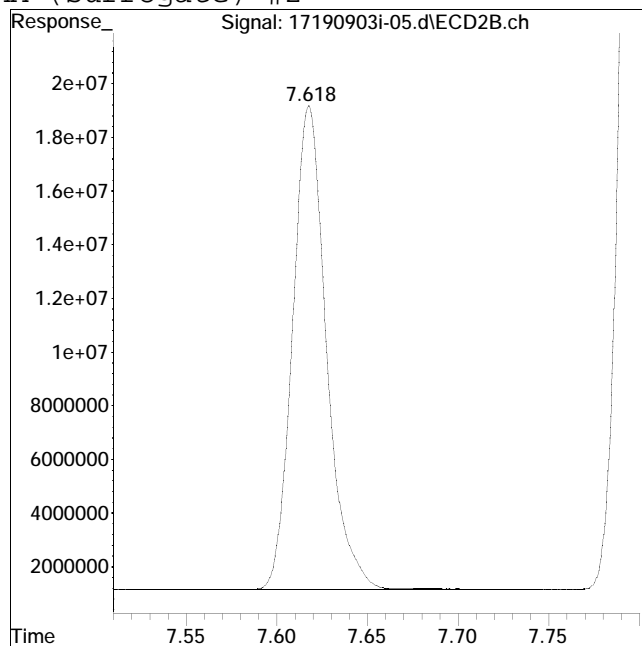
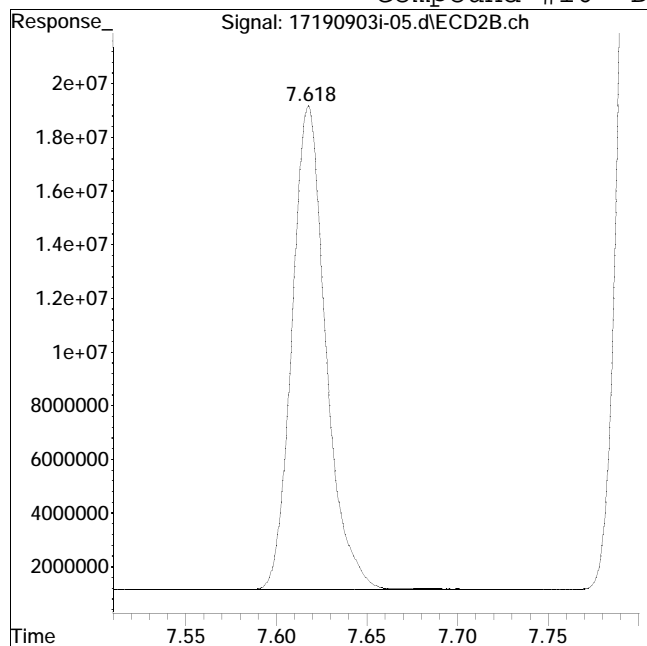
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-05.d
Date Inj'd : 9/3/2019 12:04 pm
Sample : il4herb,42e,,9273

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:46 pm

Compound #16: DCAA (surrogate) #2



Original Peak Response = 233686416

Manual Peak Response = 234031674 M4

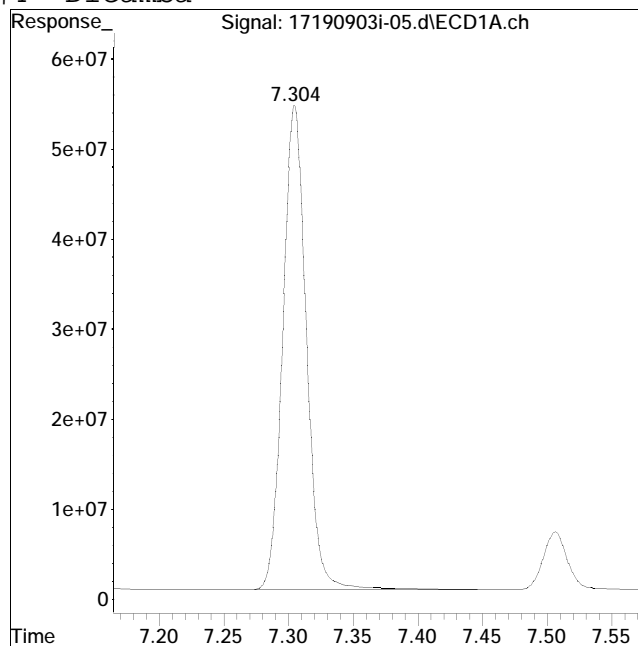
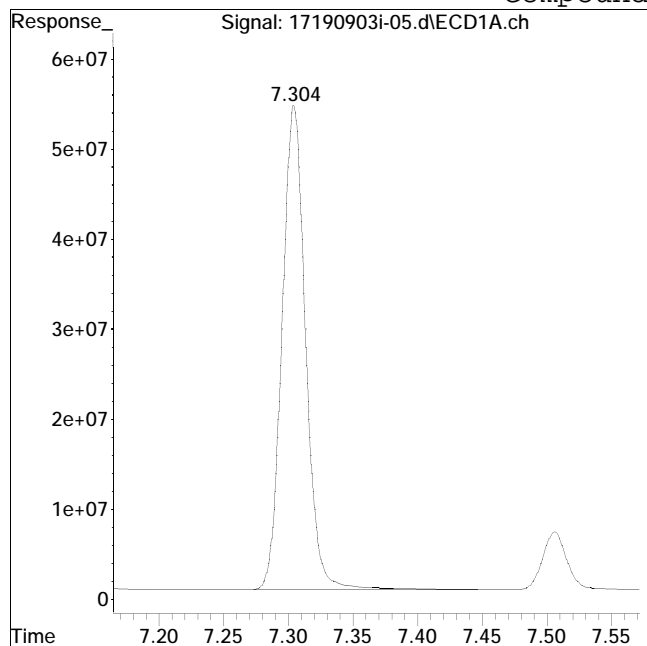
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-05.d
Date Inj'd : 9/3/2019 12:04 pm
Sample : il4herb,42e,,9273

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:46 pm

Compound #4: Dicamba



Original Peak Response = 682985472

Manual Peak Response = 683134786 M4

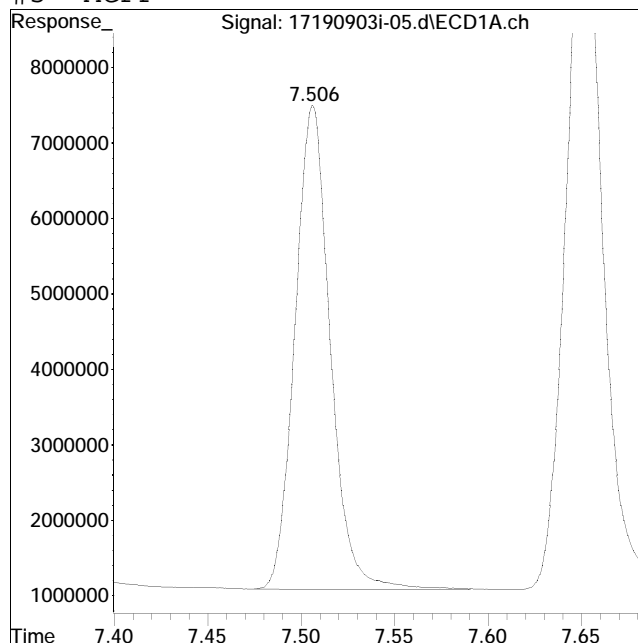
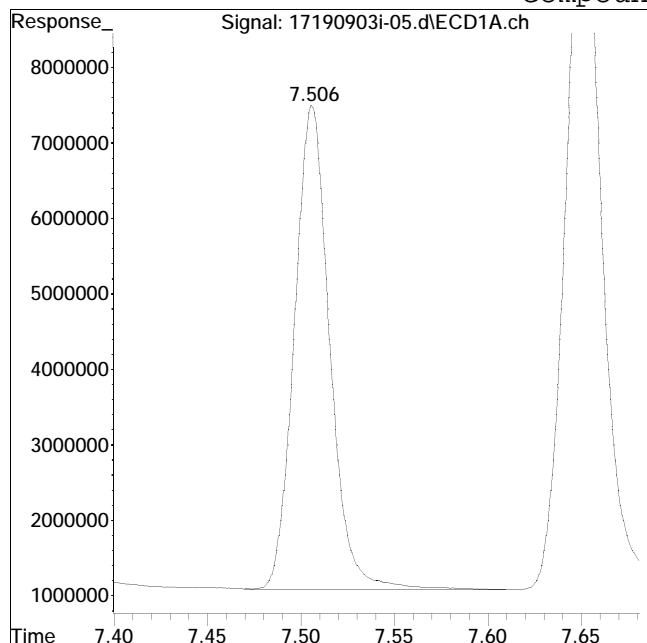
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-05.d
Date Inj'd : 9/3/2019 12:04 pm
Sample : il4herb,42e,,9273

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:46 pm

Compound #5: MCPP



Original Peak Response = 84589646

Manual Peak Response = 84015838 M4

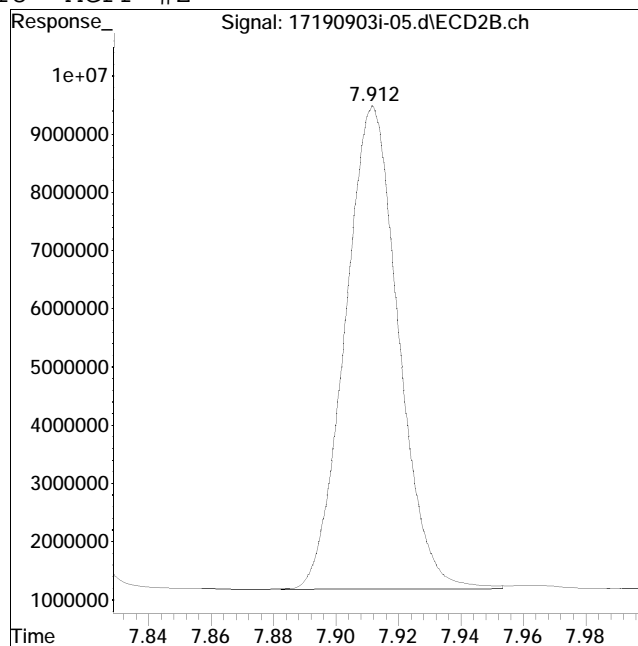
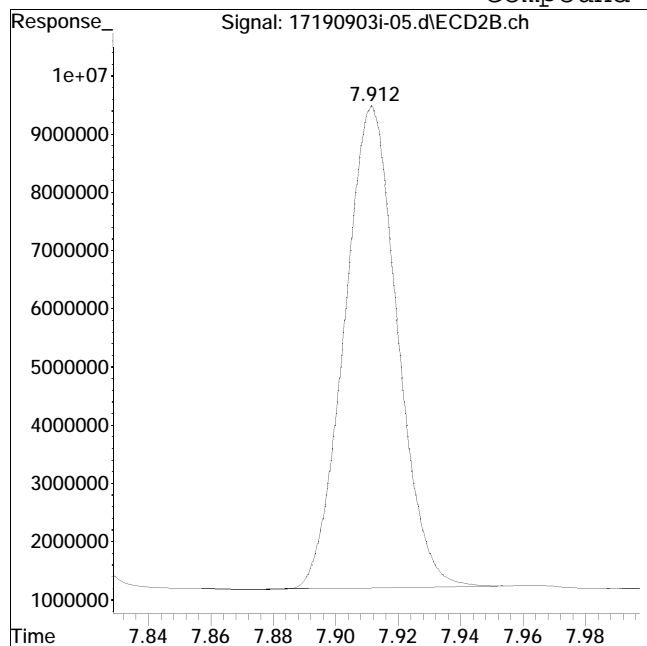
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-05.d
Date Inj'd : 9/3/2019 12:04 pm
Sample : il4herb,42e,,9273

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:46 pm

Compound #18: MCPP #2



Original Peak Response = 97419073

Manual Peak Response = 98643361 M4

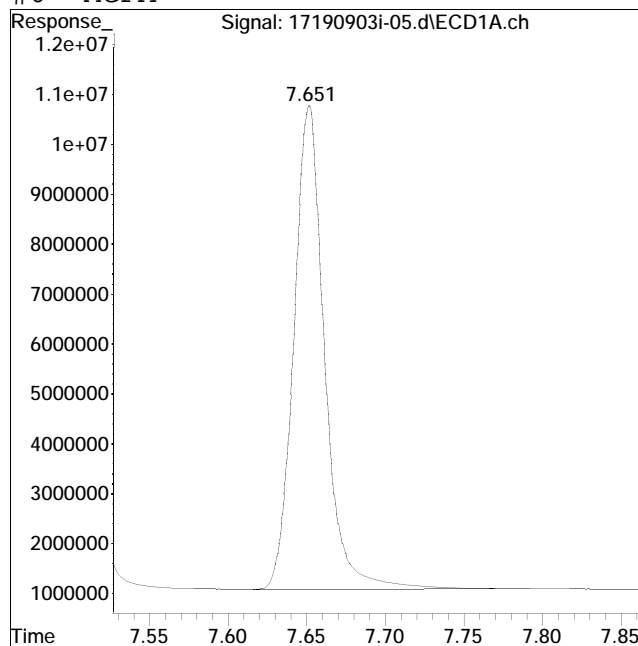
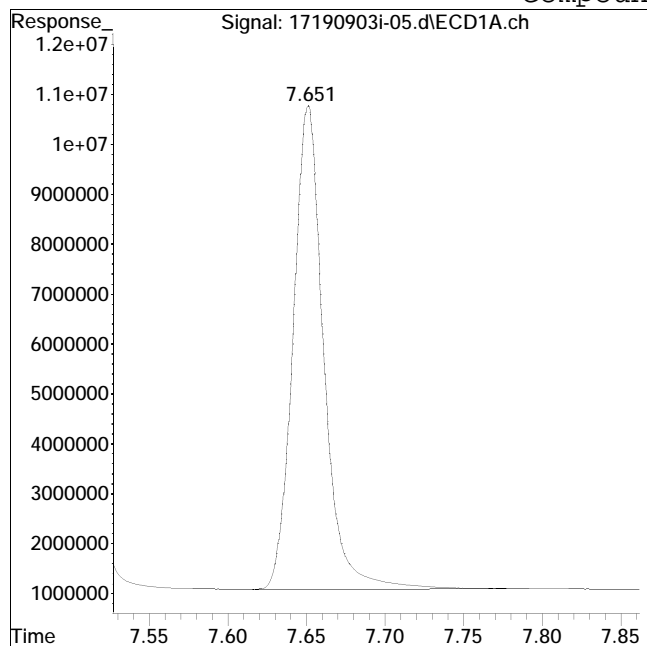
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-05.d
Date Inj'd : 9/3/2019 12:04 pm
Sample : il4herb,42e,,9273

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:46 pm

Compound #6: MCPA



Original Peak Response = 132283402

Manual Peak Response = 132234916 M4

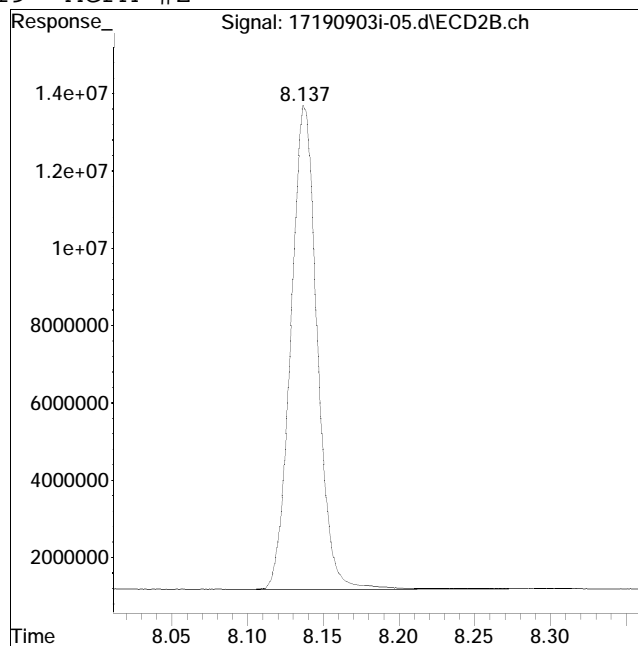
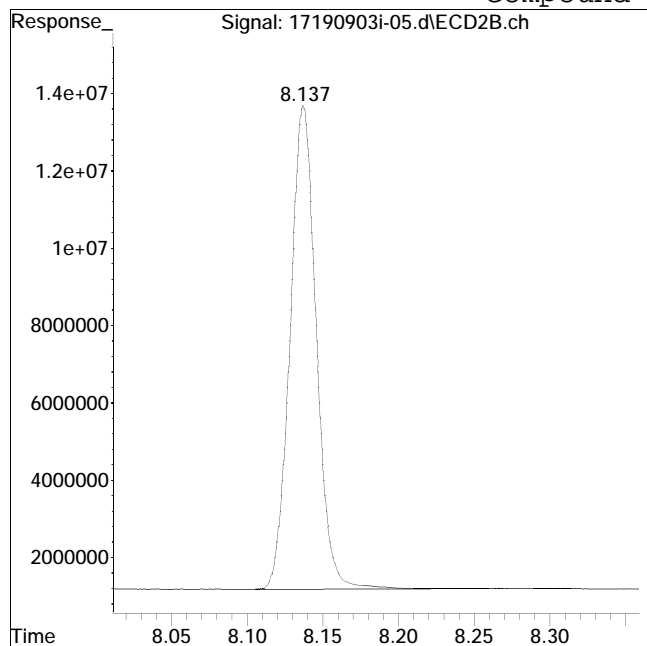
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-05.d
Date Inj'd : 9/3/2019 12:04 pm
Sample : il4herb,42e,,9273

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:46 pm

Compound #19: MCPA #2



Original Peak Response = 151719198

Manual Peak Response = 152282872 M4

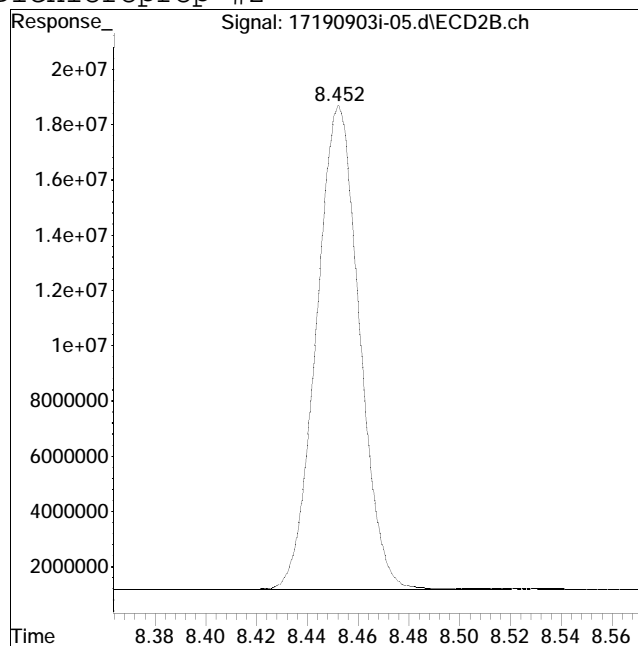
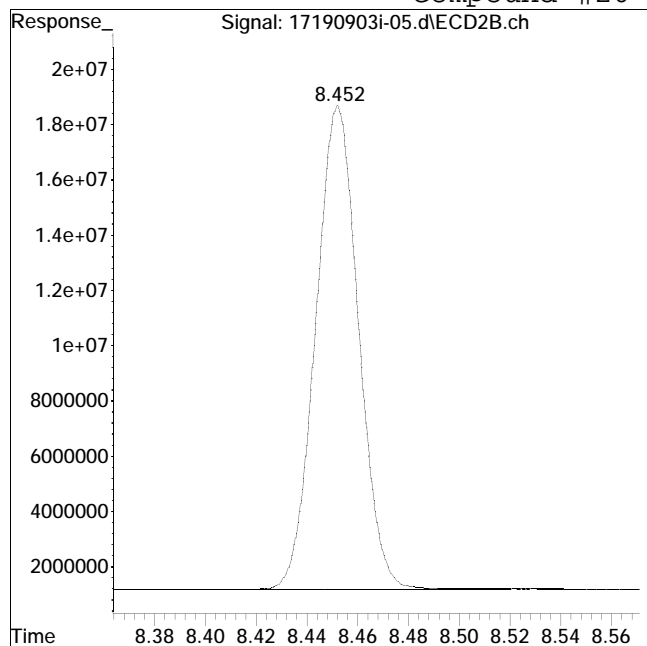
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-05.d
Date Inj'd : 9/3/2019 12:04 pm
Sample : il4herb,42e,,9273

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:46 pm

Compound #20: Dichloroprop #2



Original Peak Response = 205420603

Manual Peak Response = 206135650 M4

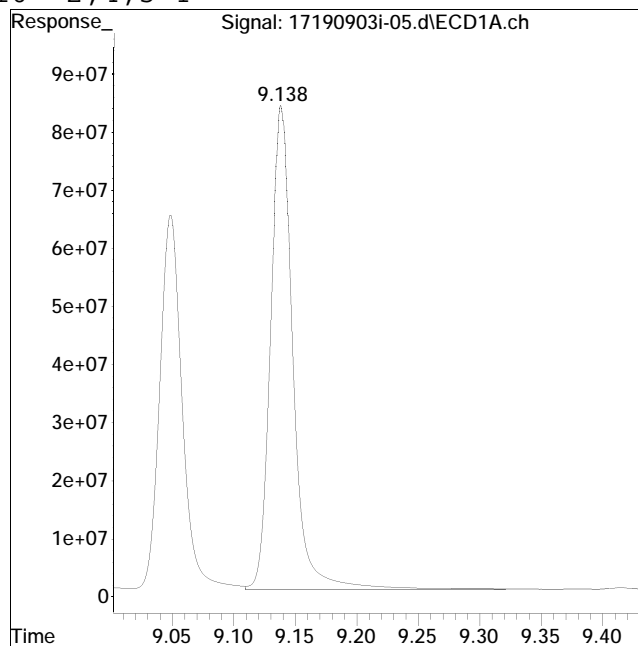
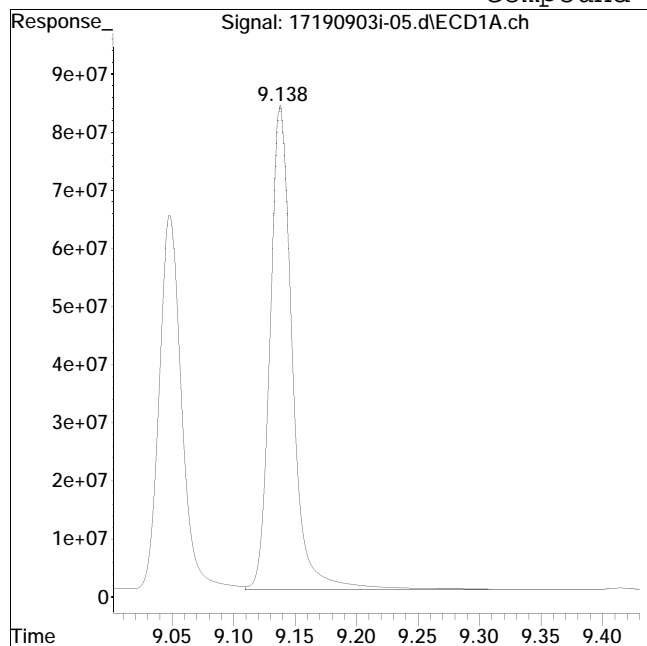
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-05.d
Date Inj'd : 9/3/2019 12:04 pm
Sample : il4herb,42e,,9273

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:46 pm

Compound #10: 2,4,5-T



Original Peak Response = 1061264773

Manual Peak Response = 1068529255 M4

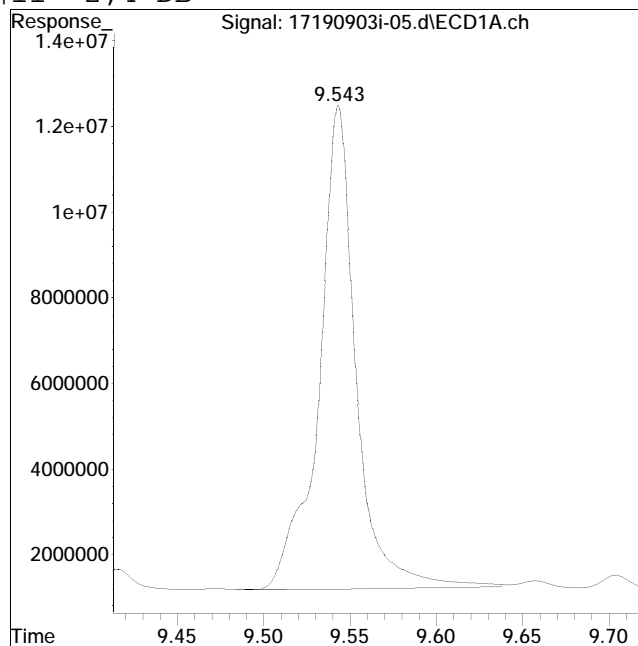
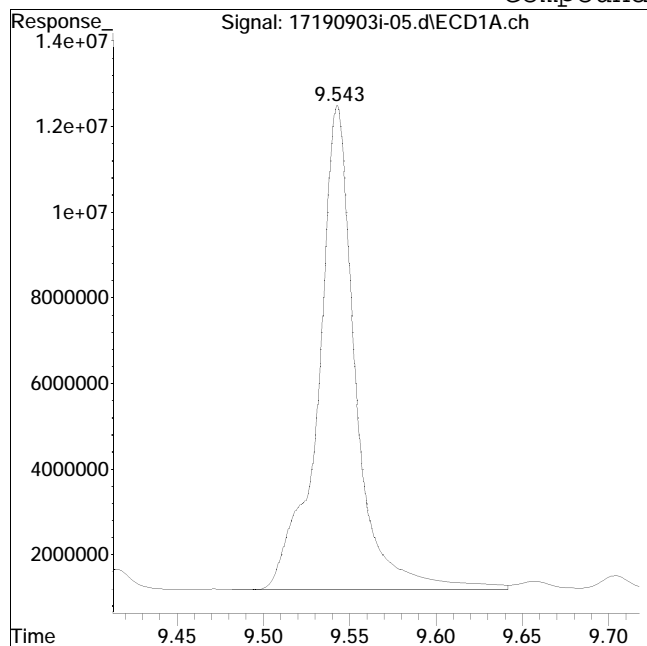
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-05.d
Date Inj'd : 9/3/2019 12:04 pm
Sample : il4herb,42e,,9273

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:46 pm

Compound #11: 2,4-DB



Original Peak Response = 170735850

Manual Peak Response = 168059993 M4

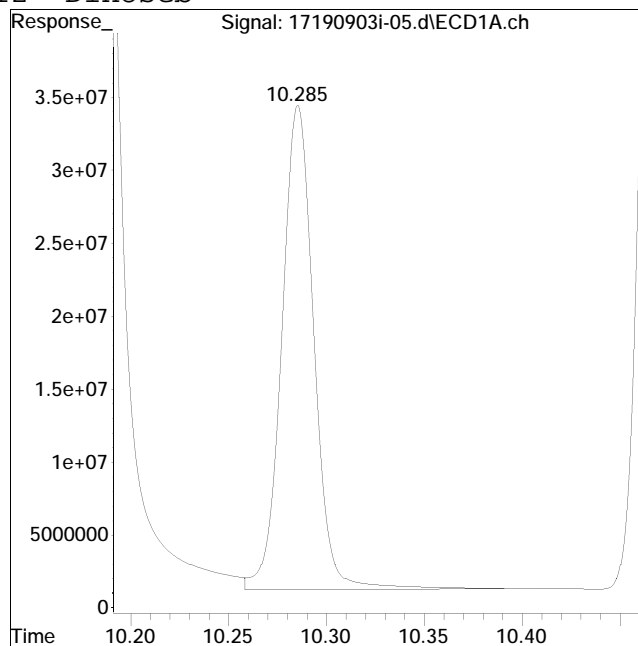
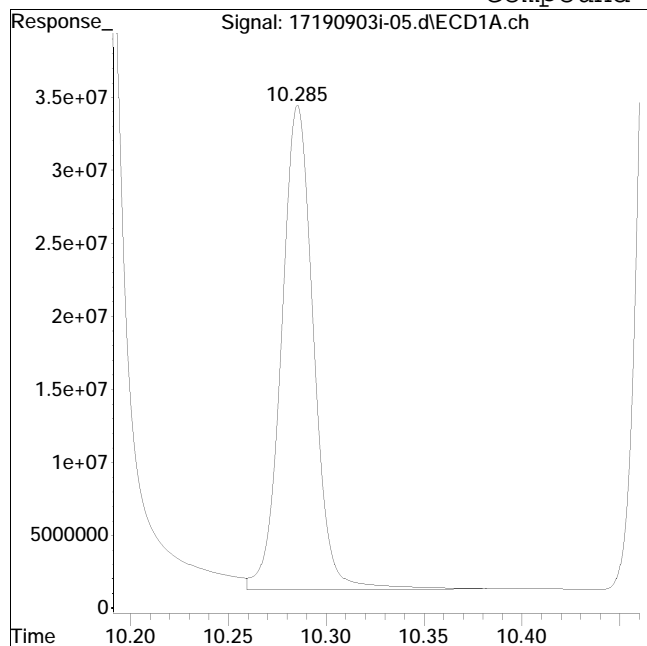
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-05.d
Date Inj'd : 9/3/2019 12:04 pm
Sample : il4herb,42e,,9273

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:46 pm

Compound #12: Dinoseb



Original Peak Response = 377121424

Manual Peak Response = 379124619 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\190903ICAL\
 Data File : 17190903i-06.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 3 Sep 2019 12:23 pm
 Operator : PEST17:dgm
 Sample : il5herb,42e,,9274
 Misc : wgl280590, (Sig #1); ical (Sig #2)
 ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Sep 04 15:49:07 2019
 Quant Method : I:\Pest17\190903ICAL\Herb17_07_31_ICAL.m
 Quant Title : herb
 QLast Update : Wed Sep 04 14:48:35 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Internal Standards							
1) i	4,4'-DFOB	8.653	8.682	731.6E6	663.3E6	0.250M4	0.250
System Monitoring Compounds							
3) s	DCAA (surrog	7.118	7.618	398.2E6	450.7E6	0.844	0.848
	Spiked Amount	0.500	Range 30 - 150	Recovery =		168.80%#	169.60%#
Target Compounds							
2) t	Dalapon	2.088f	2.158f	330.1E6	321.5E6	0.782M2	0.823M2
4) t	Dicamba	7.303	7.801	1292.0E6	1323.7E6	0.910M4	0.884
5) t	MCPD	7.506	7.913	153.8E6	182.6E6	81.343M4	86.713
6) t	MCPA	7.652	8.139	236.8E6	270.5E6	73.911M4	79.278
7) t	Dichloroprop	8.004	8.452	354.9E6	377.7E6	0.841M4	0.870M4
8) t	2,4-D	8.211	8.723	467.3E6	521.7E6	0.877	0.886
9) t	2,4,5-TP (Si	8.923	9.379	1849.7E6	1740.7E6	0.929	0.930
10) t	2,4,5-T	9.137	9.664	2013.0E6	1786.4E6	0.949M4	0.939
11) t	2,4-DB	9.541	10.024	324.5E6	313.6E6	0.967M4	0.925
12) t	Dinoseb	10.285	10.249	774.6E6	626.4E6	1.044M4	0.939

SemiQuant Compounds - Not Calibrated on this Instrument

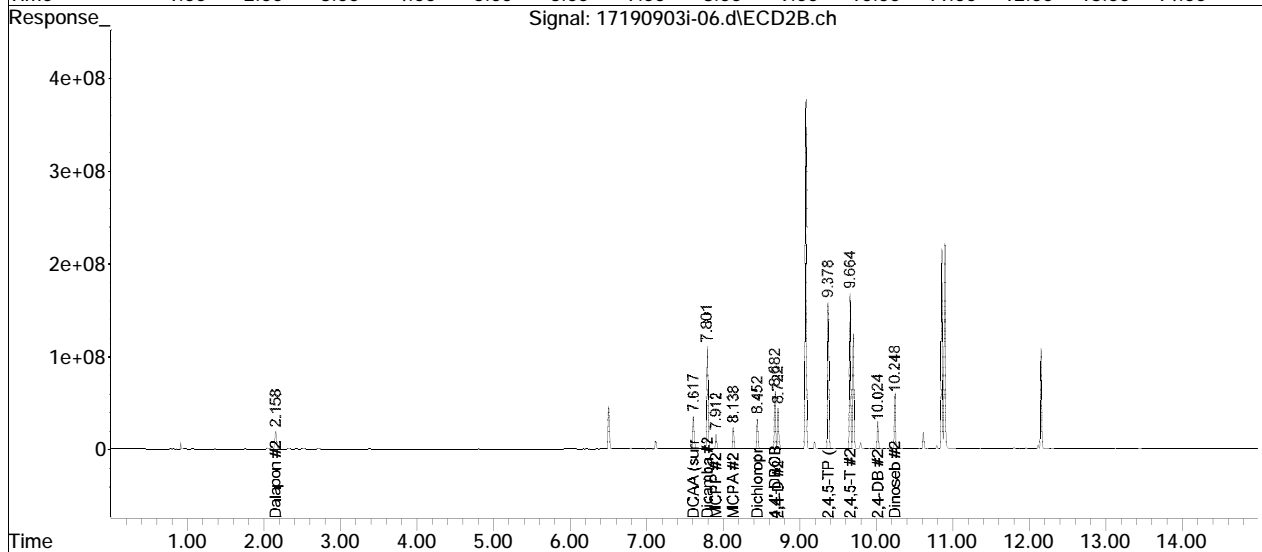
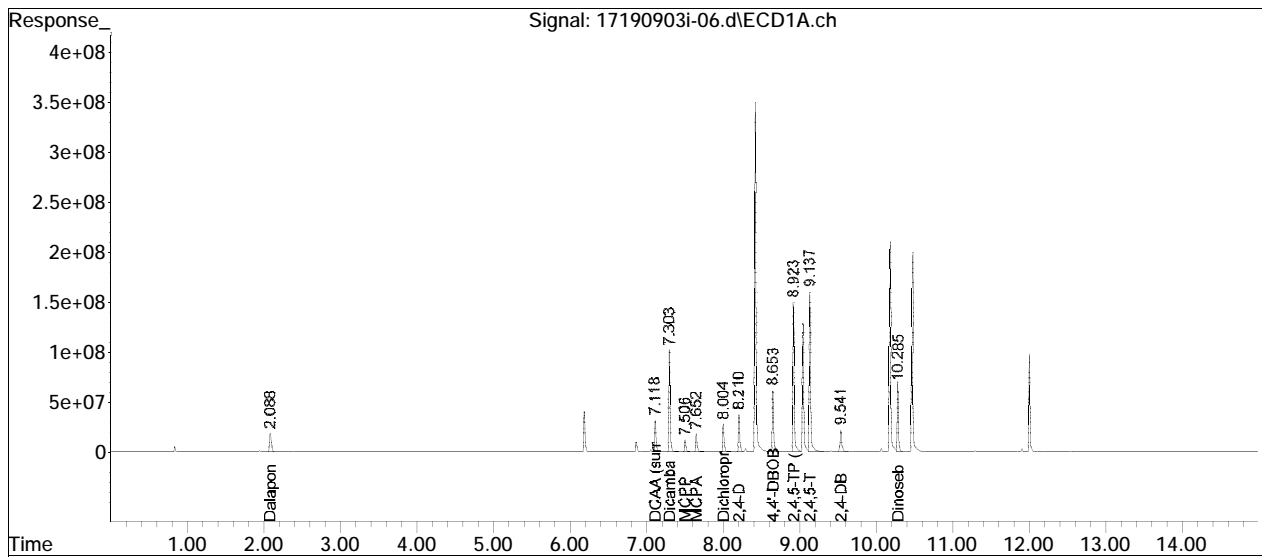
 (f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coeluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Sep 2019 12:23 pm
Operator : PEST17:dgm
Sample : il5herb,42e,,9274
Misc : wg1280590, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 04 15:49:07 2019
Quant Method : I:\Pest17\190903ICAL\Herb17_07_31_ICAL.m
Quant Title : herb
QLast Update : Wed Sep 04 14:48:35 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

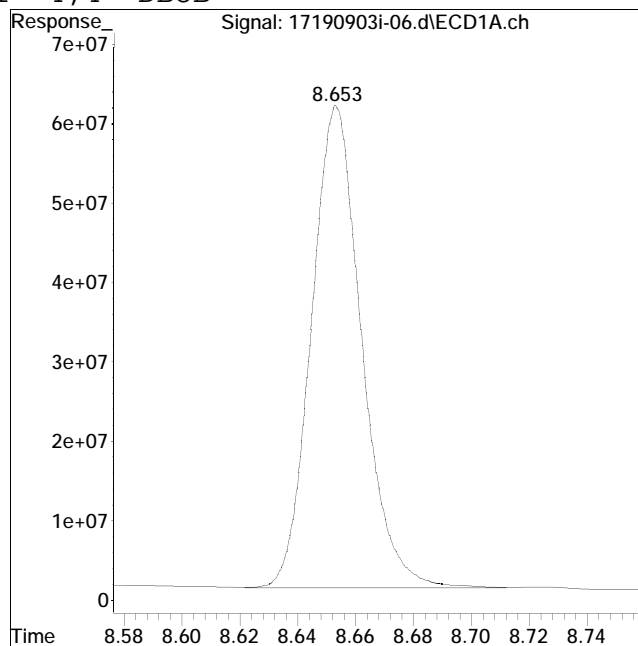
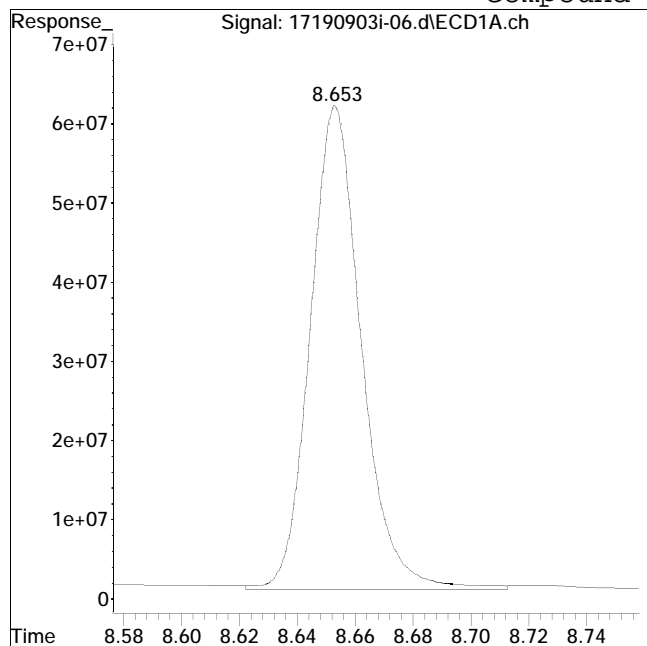


Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-06.d
Date Inj'd : 9/3/2019 12:23 pm
Sample : il5herb,42e,,9274

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:48 pm

Compound #1: 4,4'-DBOB



Original Peak Response = 752457500

Manual Peak Response = 731578843 M4

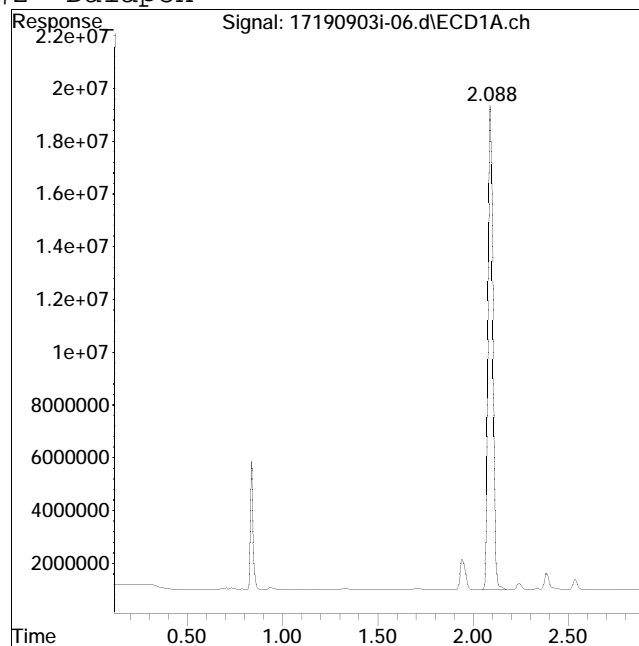
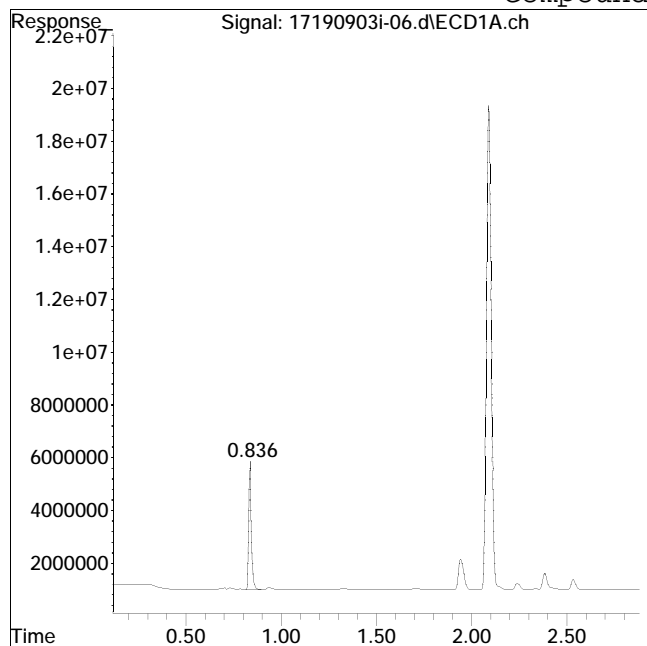
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-06.d
Date Inj'd : 9/3/2019 12:23 pm
Sample : il5herb,42e,,9274

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:48 pm

Compound #2: Dalapon



Original Peak Response = 45904061

Manual Peak Response = 330094874 M2

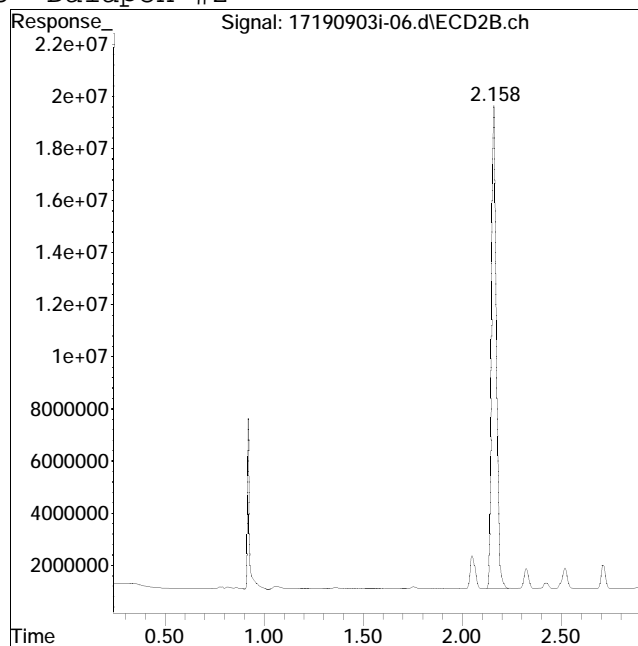
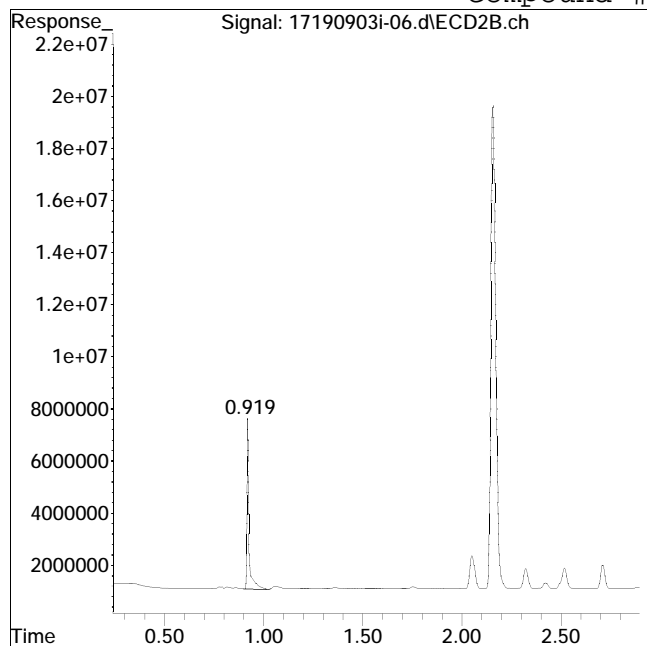
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-06.d
Date Inj'd : 9/3/2019 12:23 pm
Sample : il5herb,42e,,9274

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:48 pm

Compound #15: Dalapon #2



Original Peak Response = 46276111

Manual Peak Response = 321493238 M2

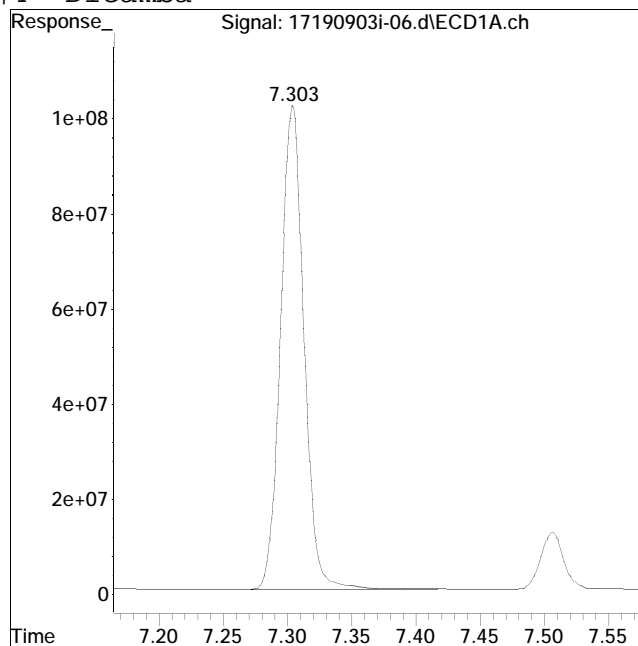
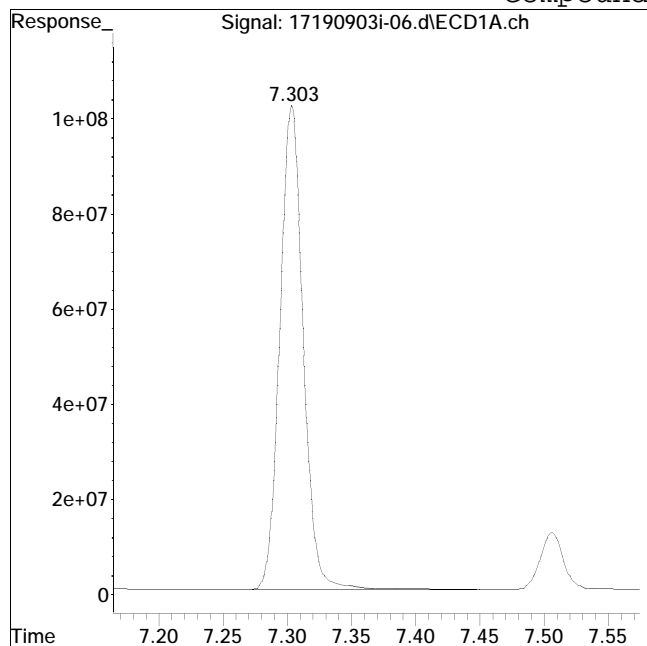
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-06.d
Date Inj'd : 9/3/2019 12:23 pm
Sample : il5herb,42e,,9274

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:48 pm

Compound #4: Dicamba



Original Peak Response = 1291645031

Manual Peak Response = 1291963283 M4

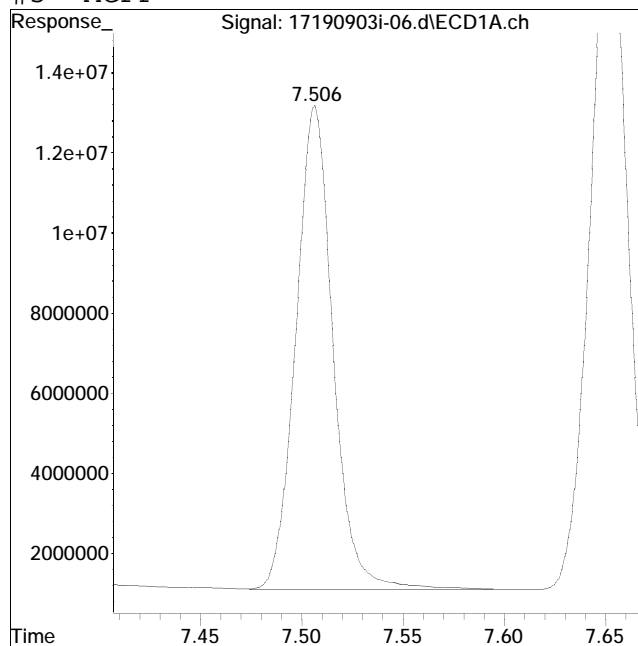
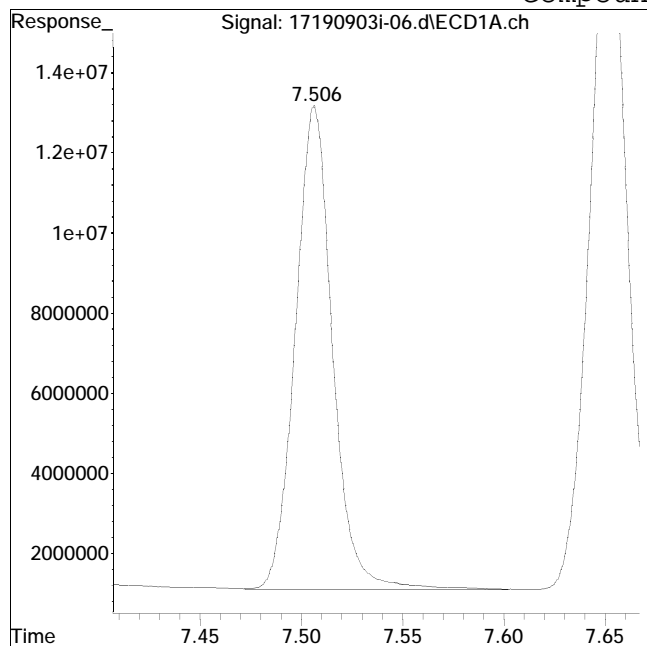
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-06.d
Date Inj'd : 9/3/2019 12:23 pm
Sample : il5herb,42e,,9274

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:48 pm

Compound #5: MCPP



Original Peak Response = 154742020

Manual Peak Response = 153773664 M4

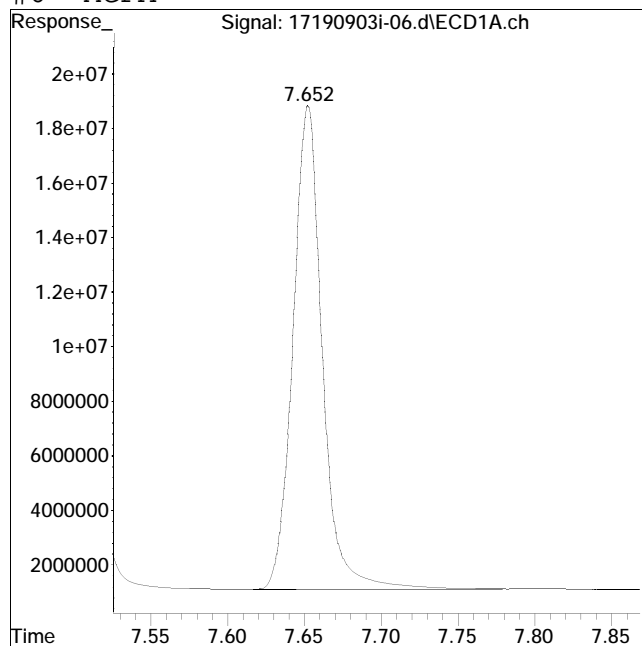
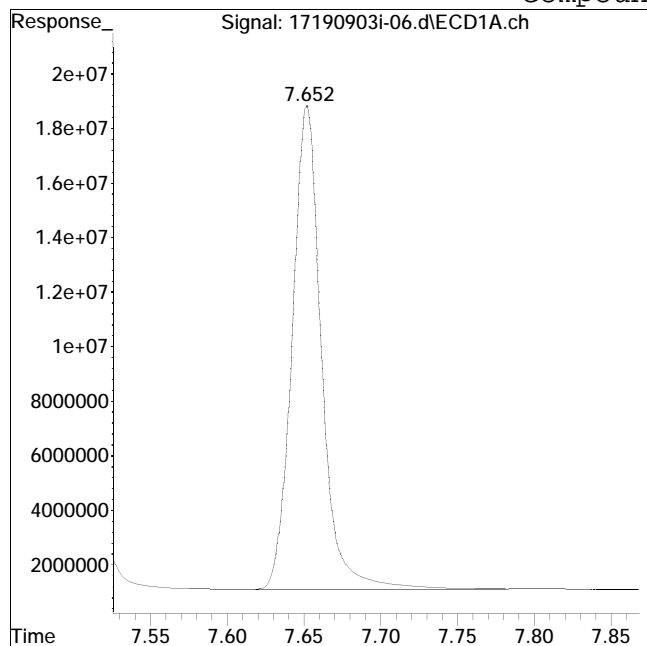
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-06.d
Date Inj'd : 9/3/2019 12:23 pm
Sample : il5herb,42e,,9274

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:48 pm

Compound #6: MCPA



Original Peak Response = 236228054

Manual Peak Response = 236759188 M4

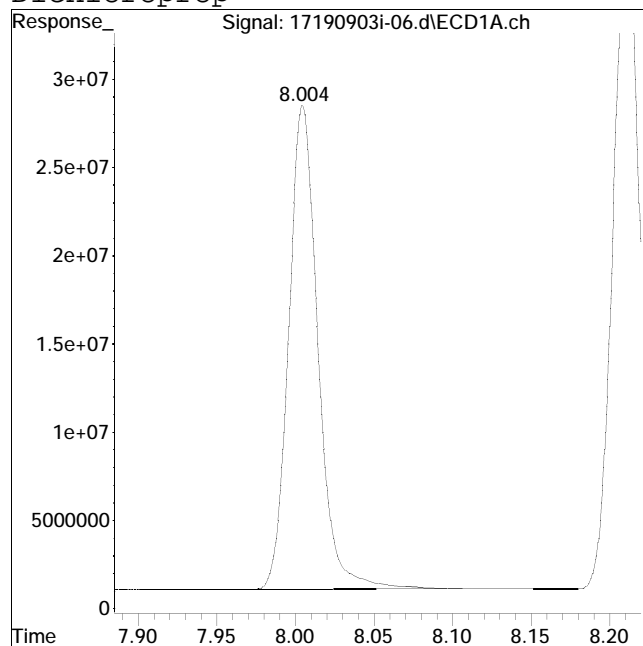
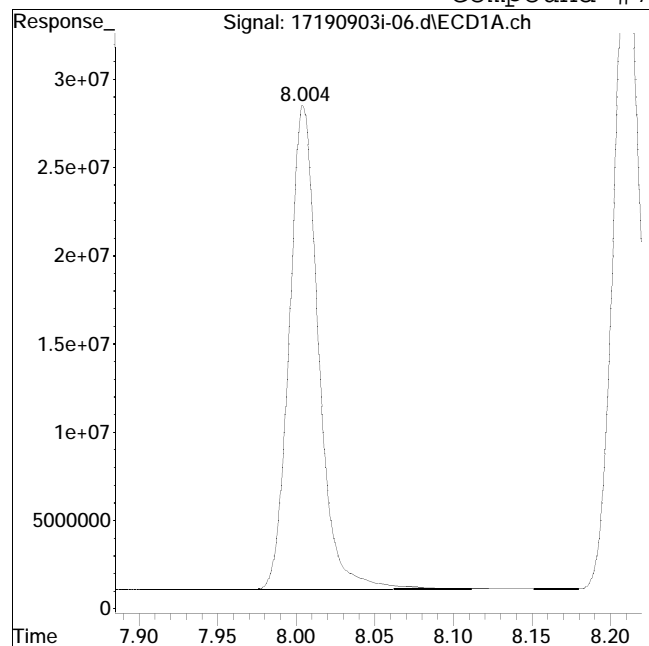
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-06.d
Date Inj'd : 9/3/2019 12:23 pm
Sample : il5herb,42e,,9274

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:48 pm

Compound #7: Dichloroprop



Original Peak Response = 356532577

Manual Peak Response = 354854608 M4

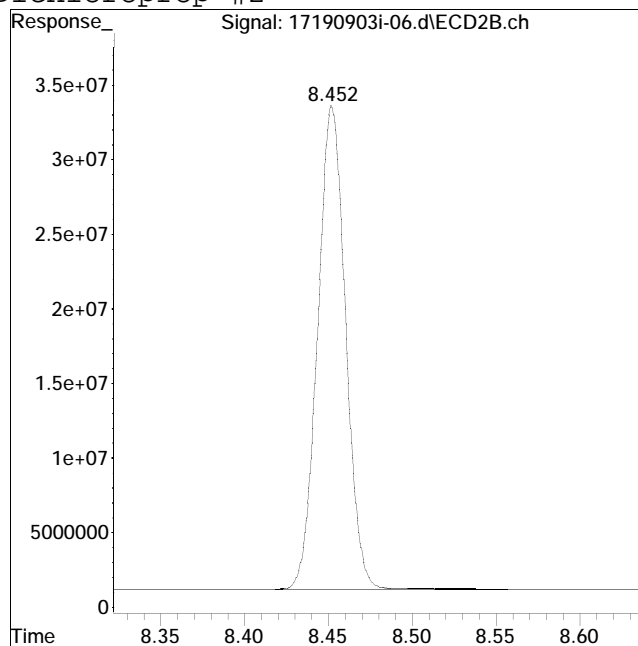
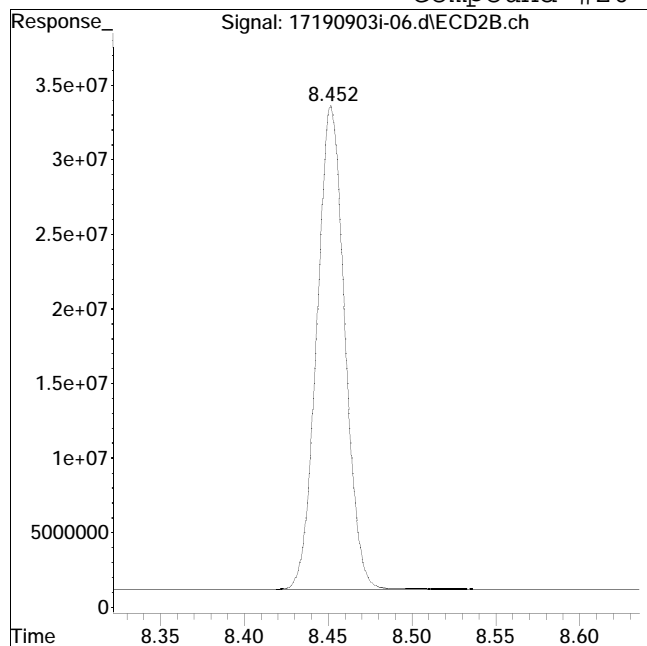
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-06.d
Date Inj'd : 9/3/2019 12:23 pm
Sample : il5herb,42e,,9274

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:48 pm

Compound #20: Dichloroprop #2



Original Peak Response = 375584330

Manual Peak Response = 377738216 M4

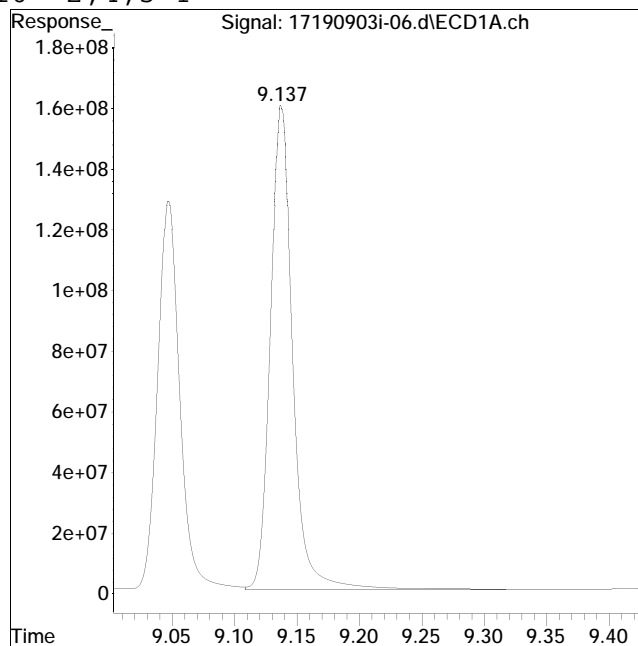
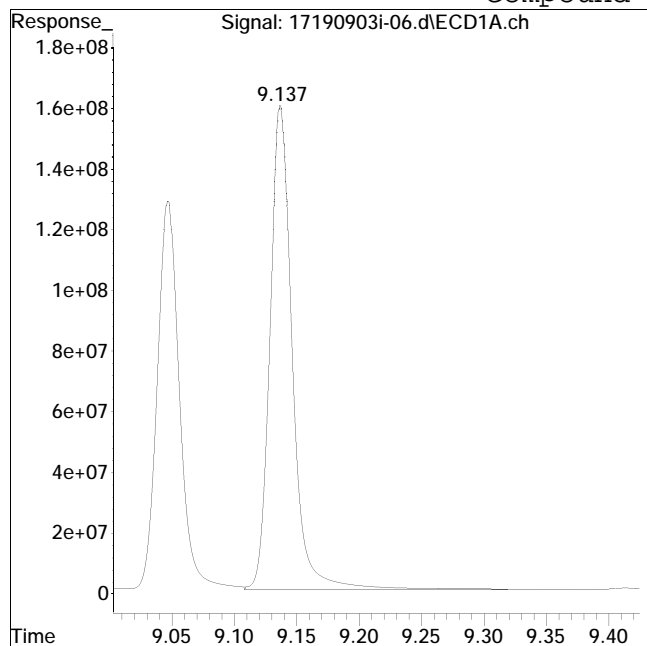
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-06.d
Date Inj'd : 9/3/2019 12:23 pm
Sample : il5herb,42e,,9274

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:48 pm

Compound #10: 2,4,5-T



Original Peak Response = 2027093579

Manual Peak Response = 2013023063 M4

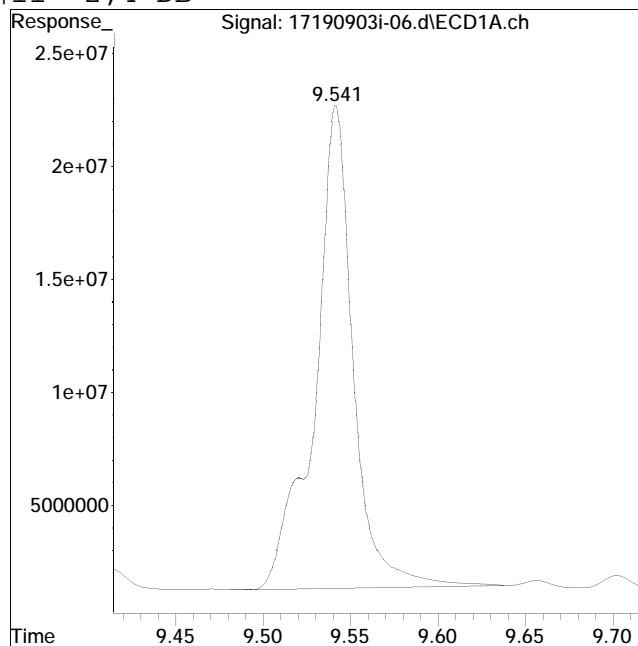
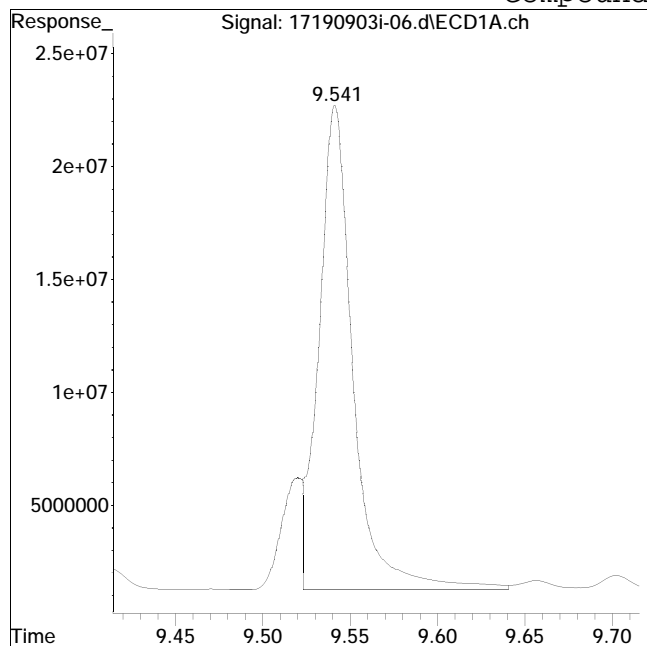
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-06.d
Date Inj'd : 9/3/2019 12:23 pm
Sample : il5herb,42e,,9274

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:48 pm

Compound #11: 2,4-DB



Original Peak Response = 295270920

Manual Peak Response = 324459087 M4

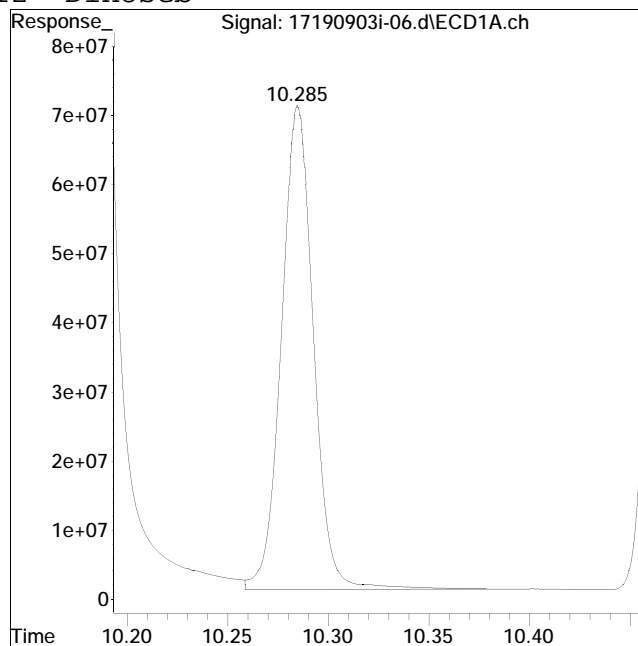
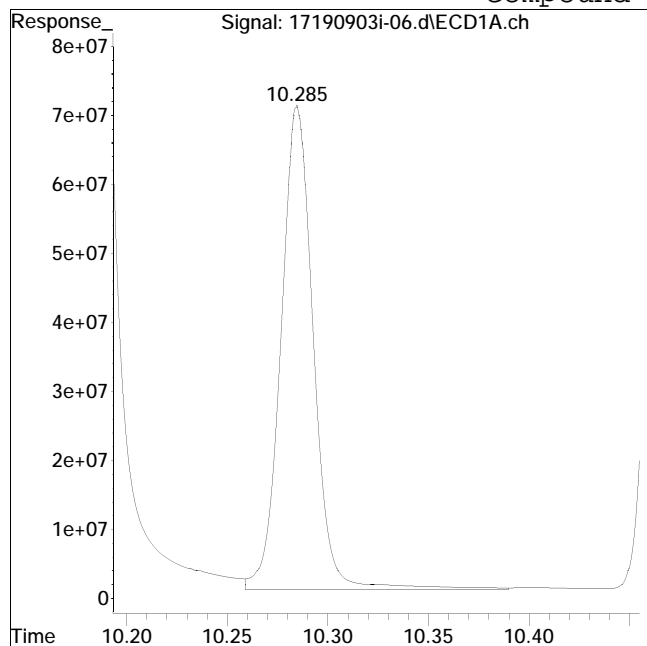
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-06.d
Date Inj'd : 9/3/2019 12:23 pm
Sample : il5herb,42e,,9274

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:48 pm

Compound #12: Dinoseb



Original Peak Response = 790747931

Manual Peak Response = 774619159 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\190903ICAL\
 Data File : 17190903i-07.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 3 Sep 2019 12:42 pm
 Operator : PEST17:dgm
 Sample : il6herb,42e,,9275
 Misc : wgl280590, (Sig #1); ical (Sig #2)
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Sep 04 15:52:48 2019
 Quant Method : I:\Pest17\190903ICAL\Herb17_07_31_ICAL.m
 Quant Title : herb
 QLast Update : Wed Sep 04 14:12:12 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Internal Standards							
1) i	4,4'-DFOB	8.654	8.682	762.7E6	627.7E6	0.250M4	0.250
System Monitoring Compounds							
3) s	DCAA (surrog	7.118	7.618	750.7E6	838.6E6	1.457M4	1.632
	Spiked Amount	0.500	Range 30 - 150	Recovery =		291.40%#	326.40%#
Target Compounds							
2) t	Dalapon	2.090f	2.159f	663.6E6	642.0E6	1.319M2	1.484M2
4) t	Dicamba	7.305	7.802	2520.6E6	2517.3E6	1.655M4	1.757
5) t	MCPD	7.510	7.914	293.5E6	345.7E6	142.706M4	171.227M4
6) t	MCPA	7.655	8.141	446.2E6	507.4E6	126.100M4	153.459M4
7) t	Dichloroprop	8.006	8.452	674.1E6	701.0E6	1.469M4	1.678M4
8) t	2,4-D	8.212	8.722	904.2E6	1001.6E6	1.570	1.782M4
9) t	2,4,5-TP (Si	8.923	9.379	3560.9E6	3329.4E6	1.666M4	1.875
10) t	2,4,5-T	9.137	9.665	3934.8E6	3507.7E6	1.734M4	1.957
11) t	2,4-DB	9.541	10.024	656.1E6	592.6E6	1.790M4	1.842
12) t	Dinoseb	10.285	10.249	1664.9E6	1227.1E6	2.171M4	1.955M4

SemiQuant Compounds - Not Calibrated on this Instrument

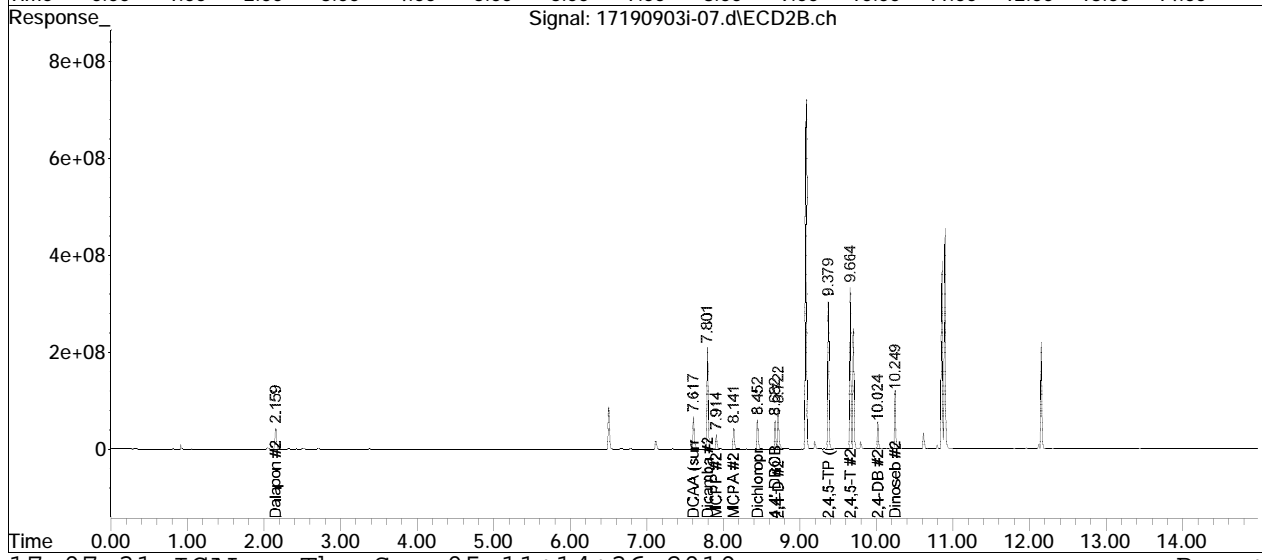
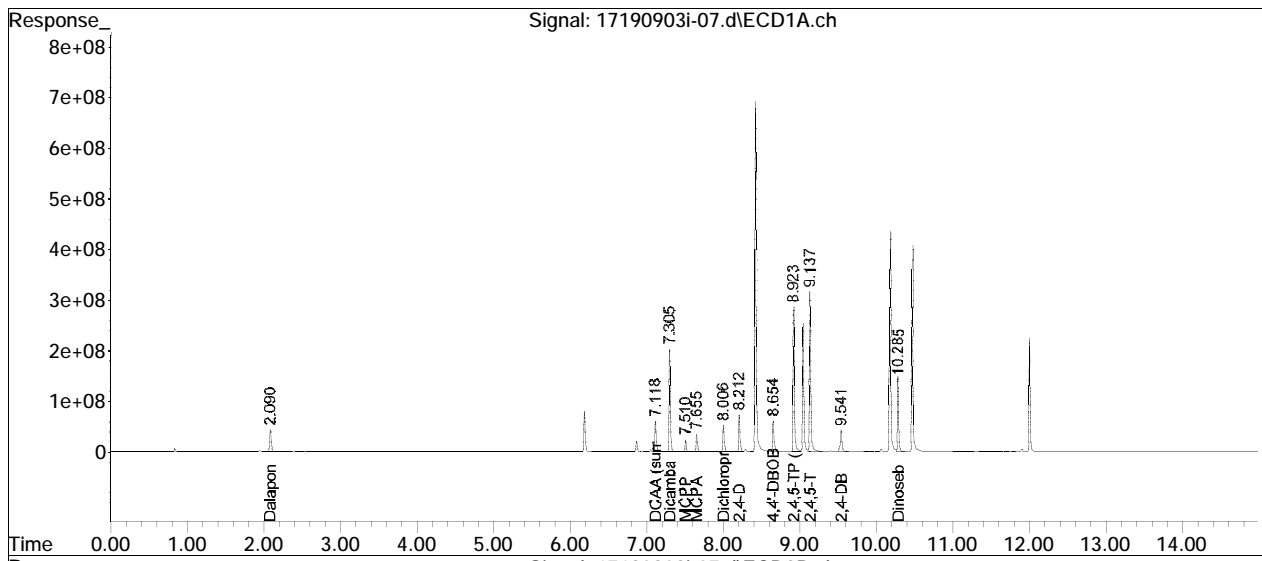
 (f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coeluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-07.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Sep 2019 12:42 pm
Operator : PEST17:dgm
Sample : il6herb,42e,,9275
Misc : wg1280590, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 04 15:52:48 2019
Quant Method : I:\Pest17\190903ICAL\Herb17_07_31_ICAL.m
Quant Title : herb
QLast Update : Wed Sep 04 14:12:12 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

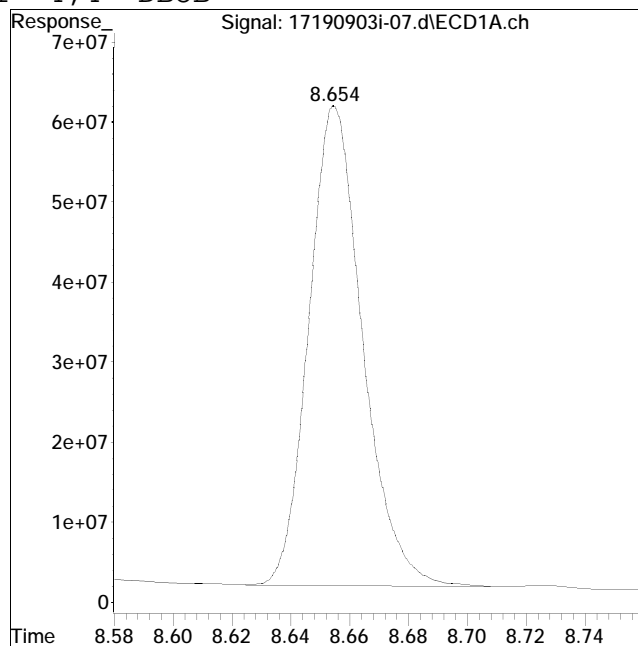
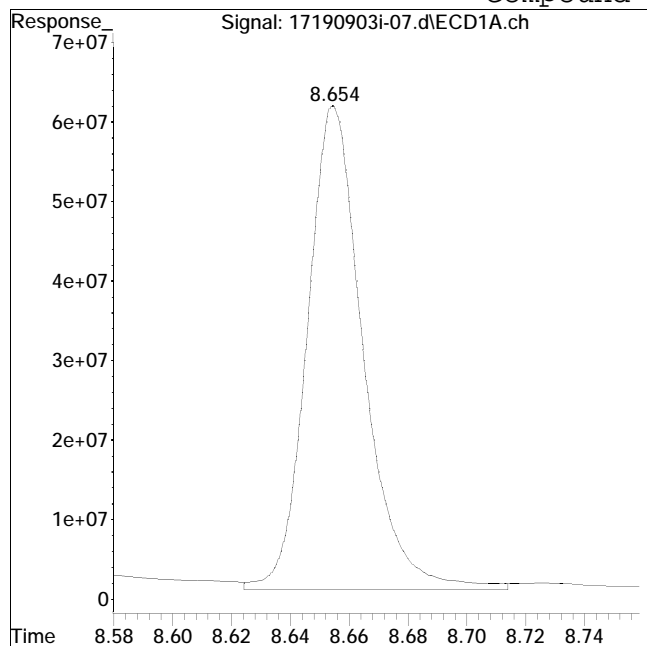


Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-07.d
Date Inj'd : 9/3/2019 12:42 pm
Sample : il6herb,42e,,9275

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:12 pm

Compound #1: 4,4'-DBOB



Original Peak Response = 809703447

Manual Peak Response = 762696186 M4

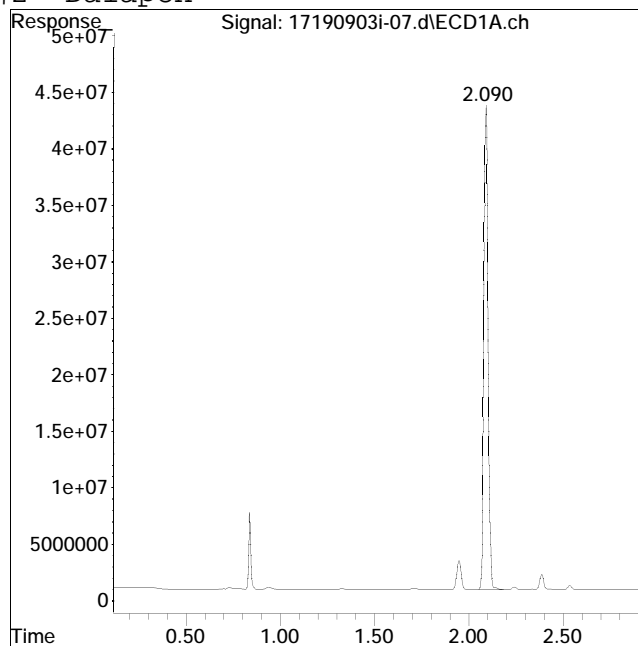
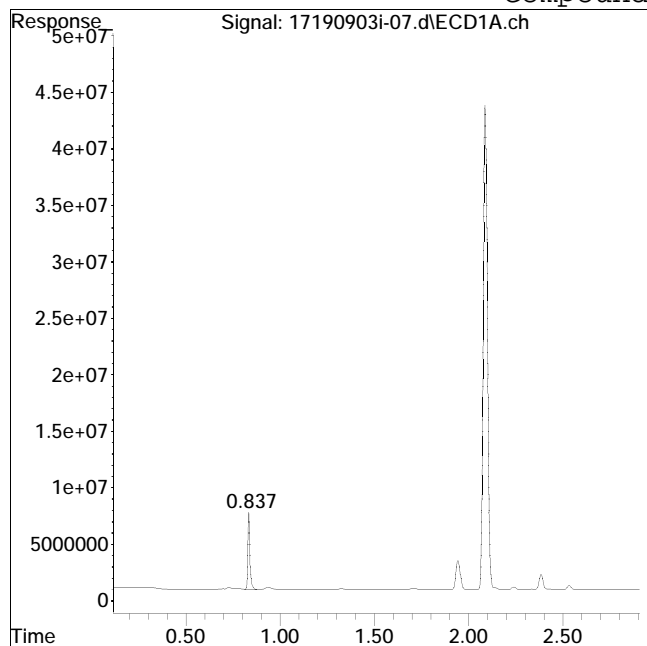
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-07.d
Date Inj'd : 9/3/2019 12:42 pm
Sample : il6herb,42e,,9275

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:12 pm

Compound #2: Dalapon



Original Peak Response = 52051142

Manual Peak Response = 663625209 M2

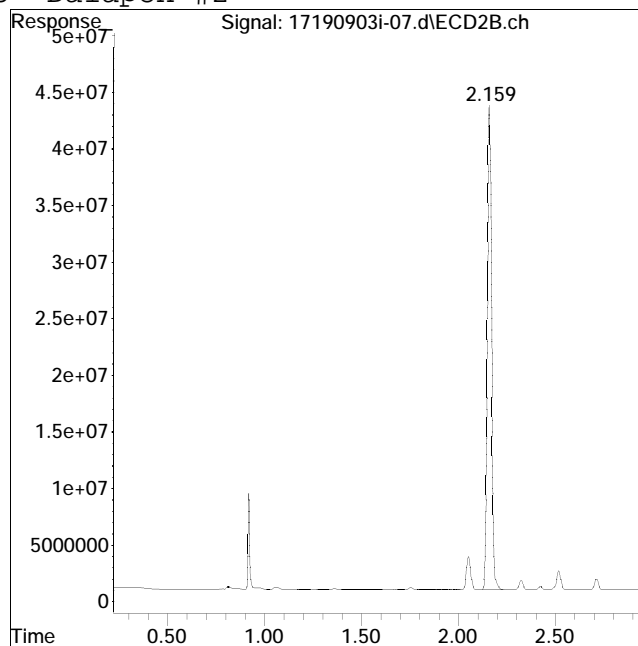
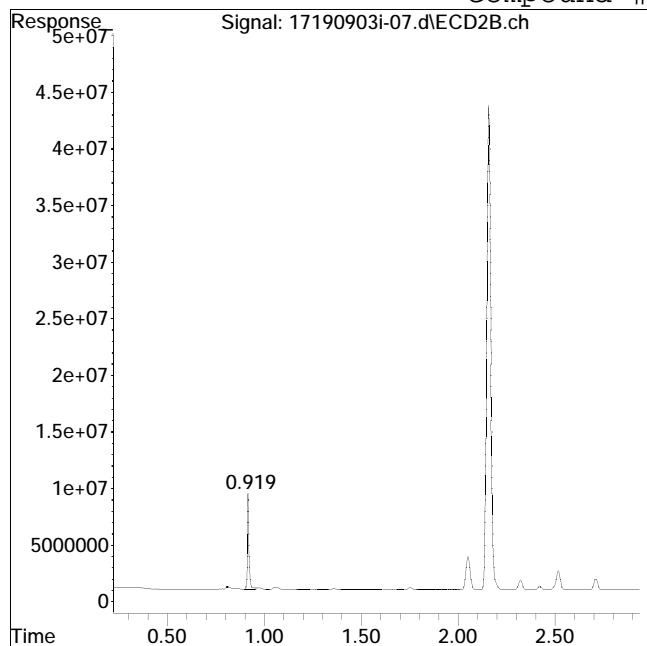
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-07.d
Date Inj'd : 9/3/2019 12:42 pm
Sample : il6herb,42e,,9275

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:12 pm

Compound #15: Dalapon #2



Original Peak Response = 48992736

Manual Peak Response = 642018337 M2

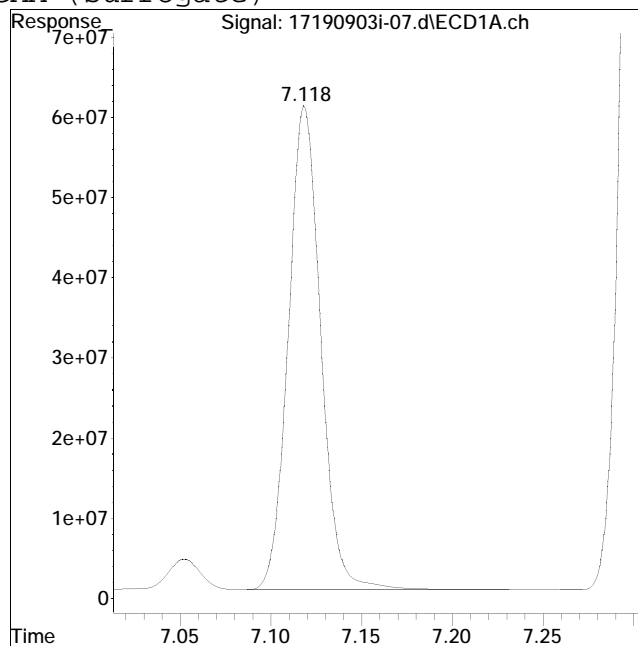
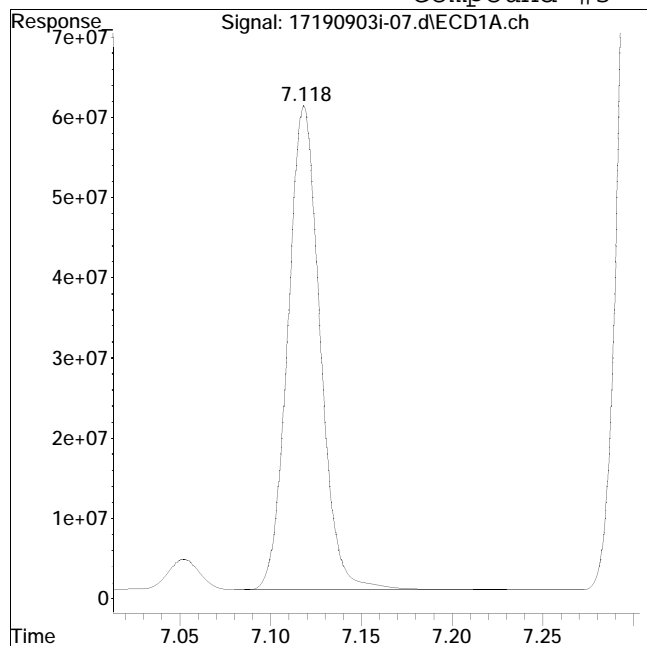
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-07.d
Date Inj'd : 9/3/2019 12:42 pm
Sample : il6herb,42e,,9275

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:12 pm

Compound #3: DCAA (surrogate)



Original Peak Response = 749541073

Manual Peak Response = 750681020 M4

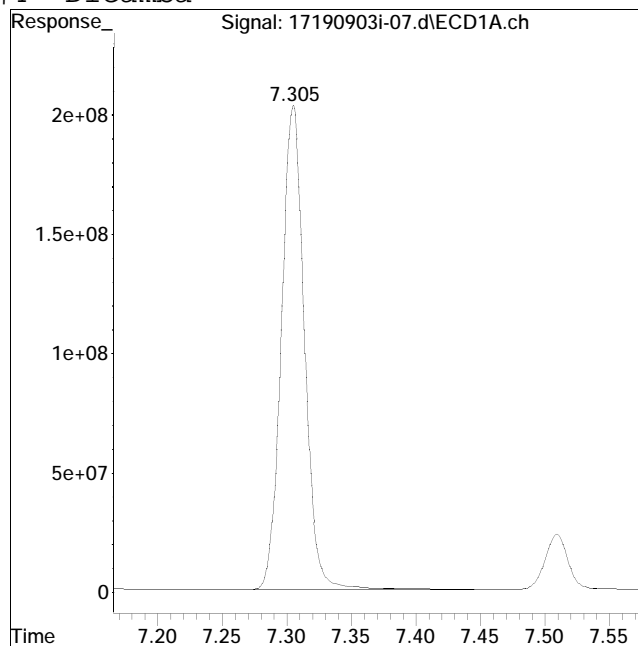
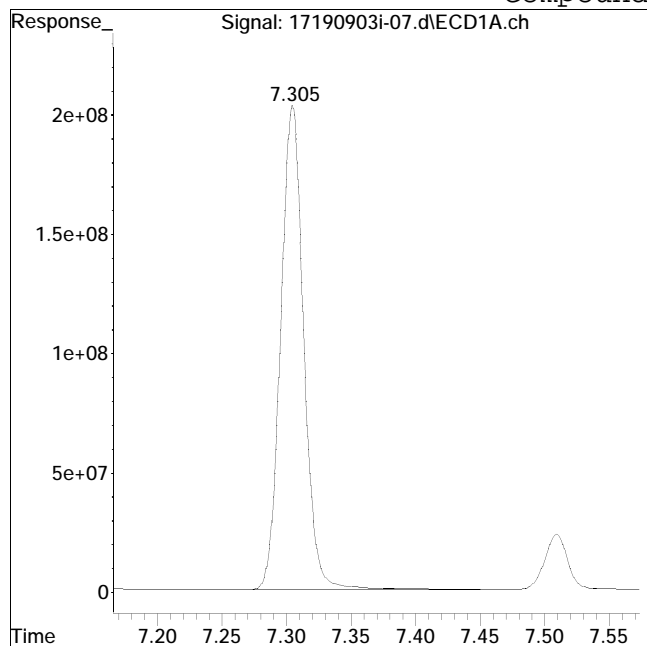
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-07.d
Date Inj'd : 9/3/2019 12:42 pm
Sample : il6herb,42e,,9275

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:12 pm

Compound #4: Dicamba



Original Peak Response = 2527053986

Manual Peak Response = 2520582104 M4

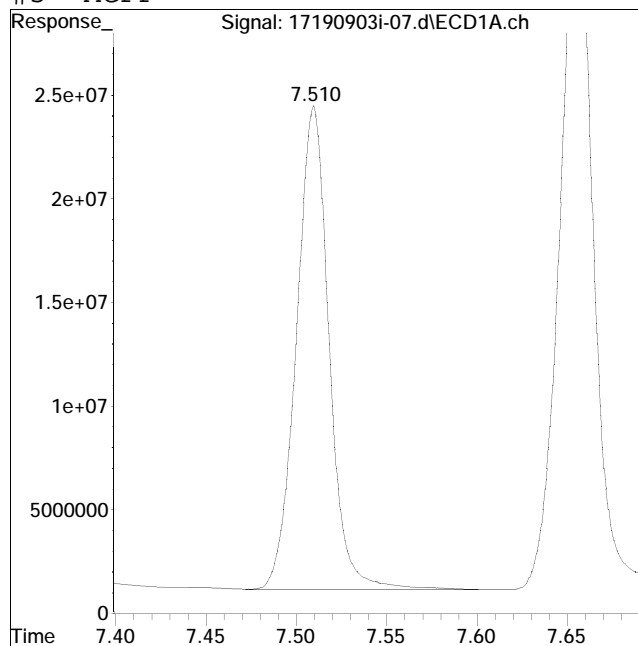
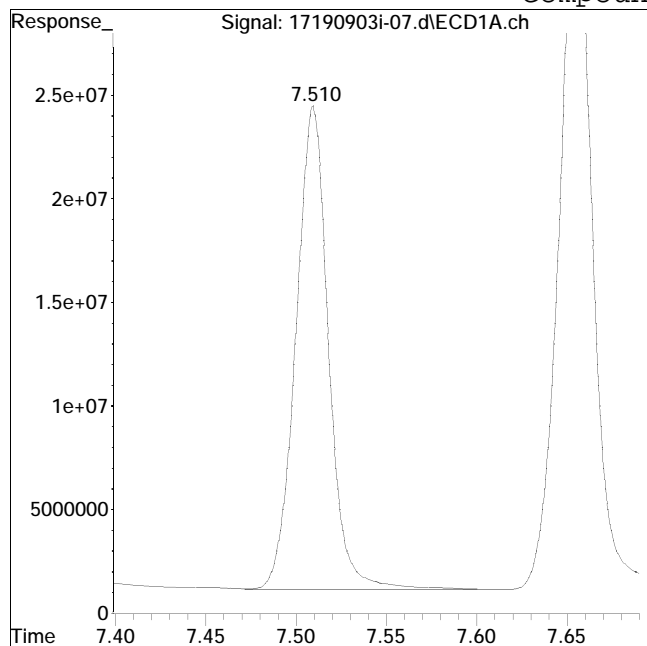
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-07.d
Date Inj'd : 9/3/2019 12:42 pm
Sample : il6herb,42e,,9275

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:12 pm

Compound #5: MCPP



Original Peak Response = 294142620

Manual Peak Response = 293456606 M4

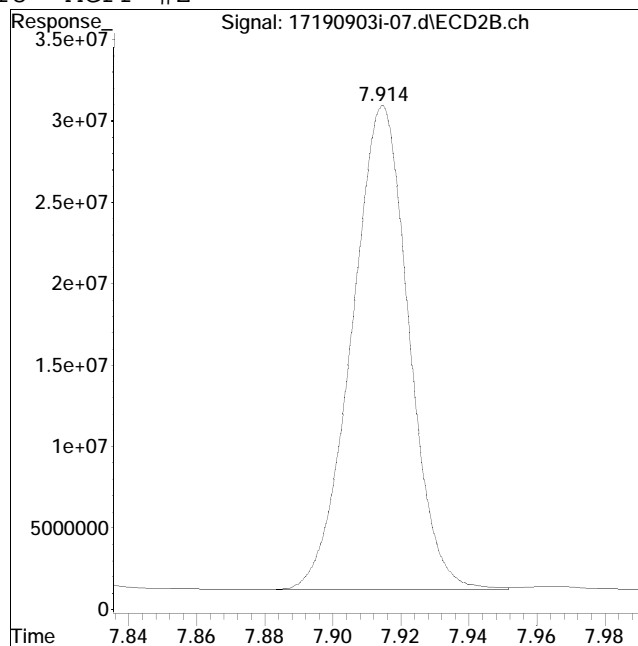
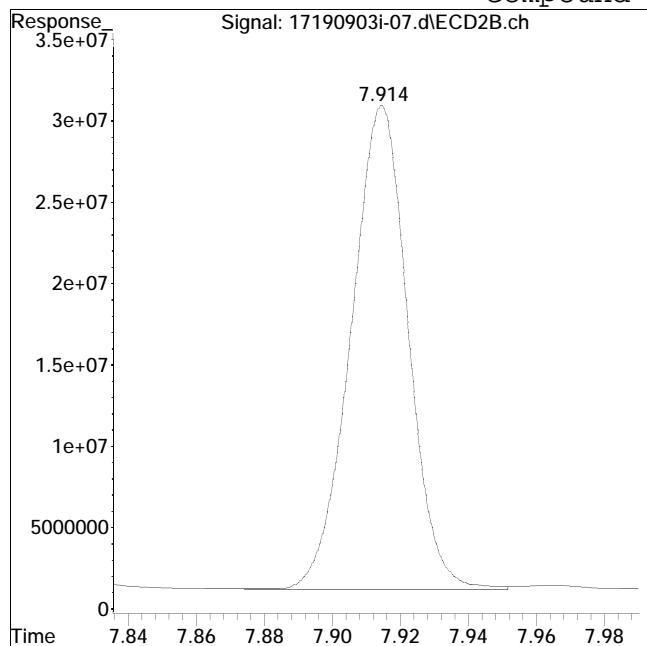
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-07.d
Date Inj'd : 9/3/2019 12:42 pm
Sample : il6herb,42e,,9275

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:12 pm

Compound #18: MCPP #2



Original Peak Response = 347652487

Manual Peak Response = 345674747 M4

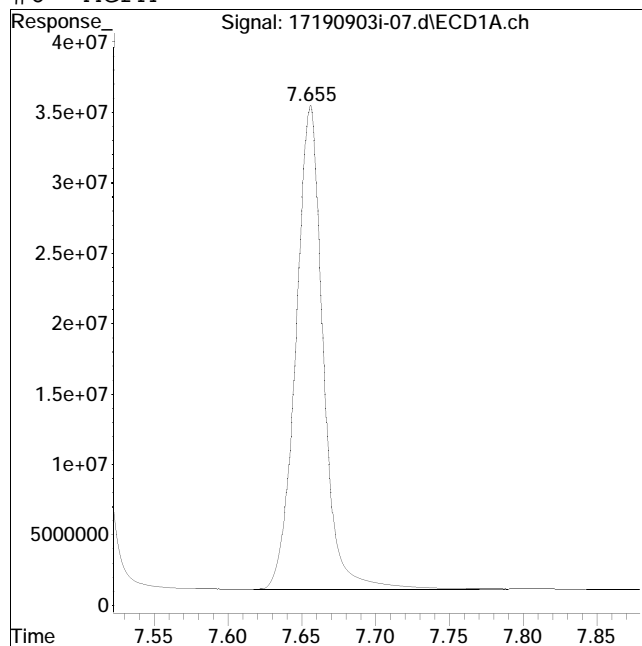
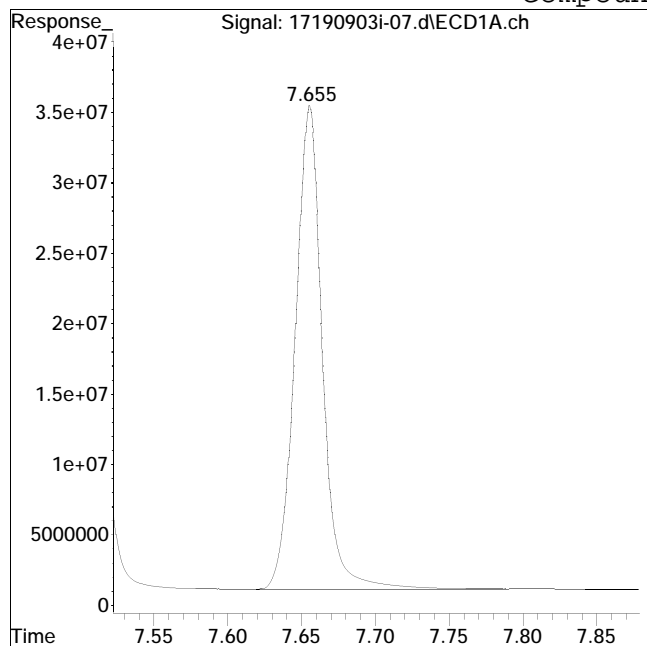
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-07.d
Date Inj'd : 9/3/2019 12:42 pm
Sample : il6herb,42e,,9275

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:12 pm

Compound #6: MCPA



Original Peak Response = 442698998

Manual Peak Response = 446180253 M4

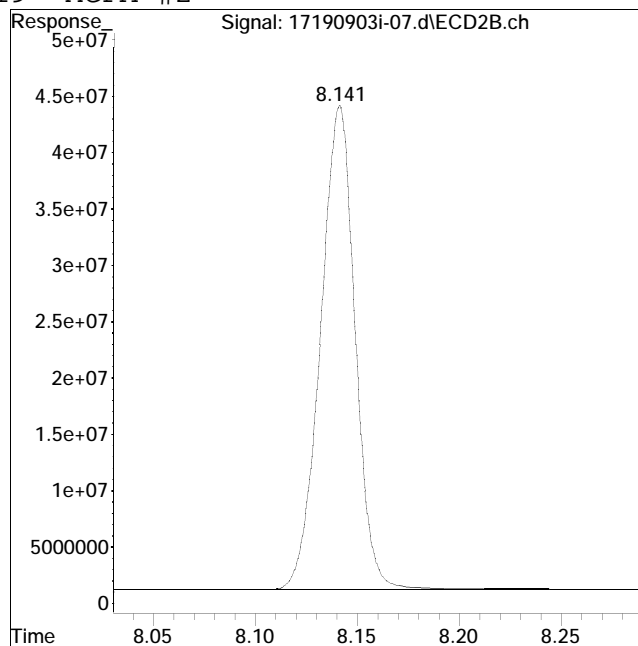
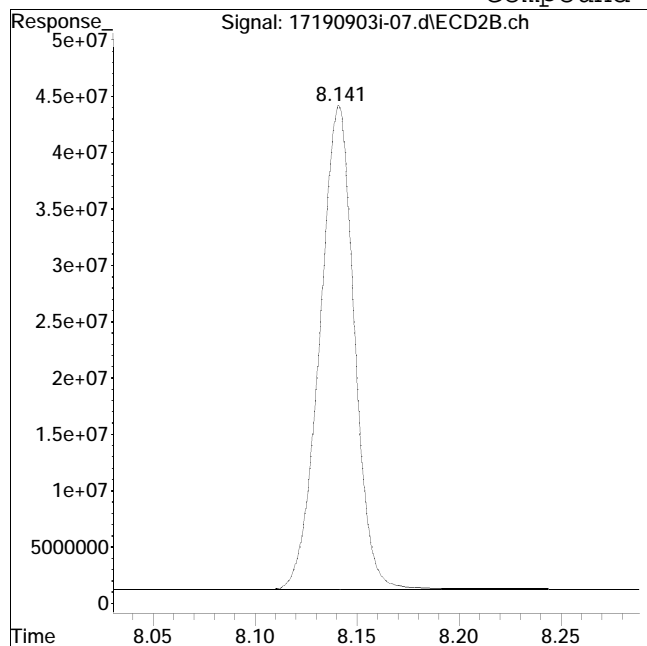
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-07.d
Date Inj'd : 9/3/2019 12:42 pm
Sample : il6herb,42e,,9275

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:12 pm

Compound #19: MCPA #2



Original Peak Response = 505176349

Manual Peak Response = 507418423 M4

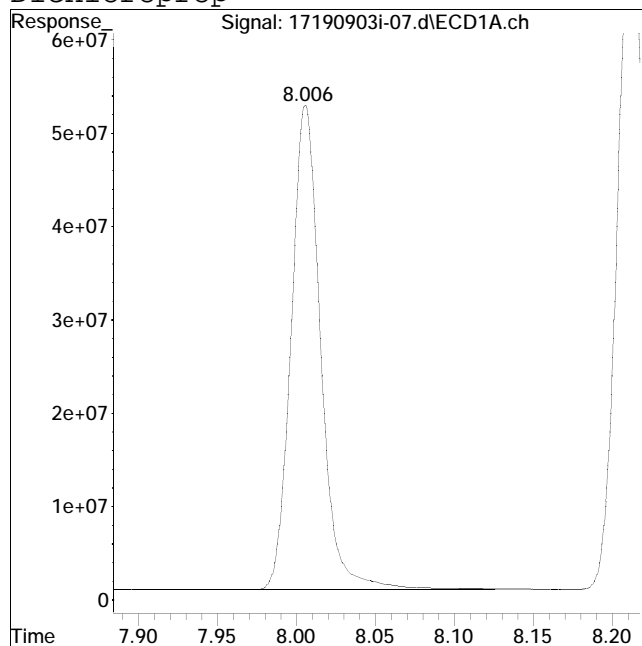
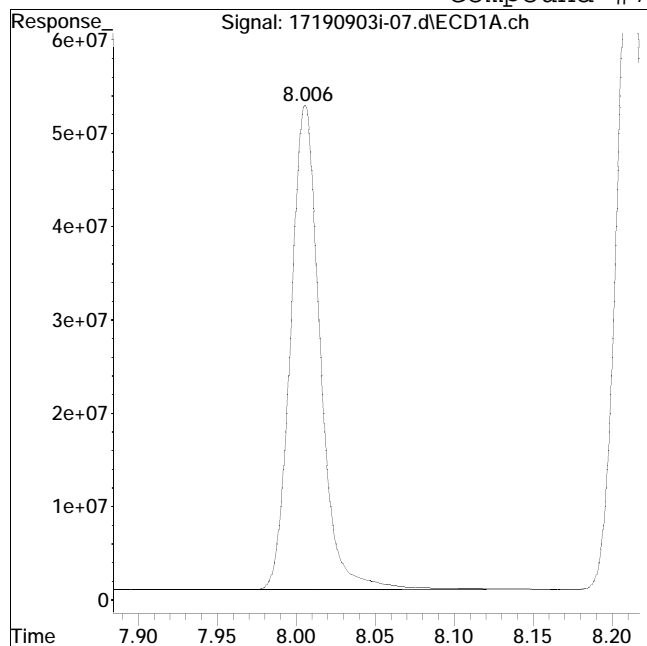
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-07.d
Date Inj'd : 9/3/2019 12:42 pm
Sample : il6herb,42e,,9275

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:12 pm

Compound #7: Dichloroprop



Original Peak Response = 672240468

Manual Peak Response = 674147763 M4

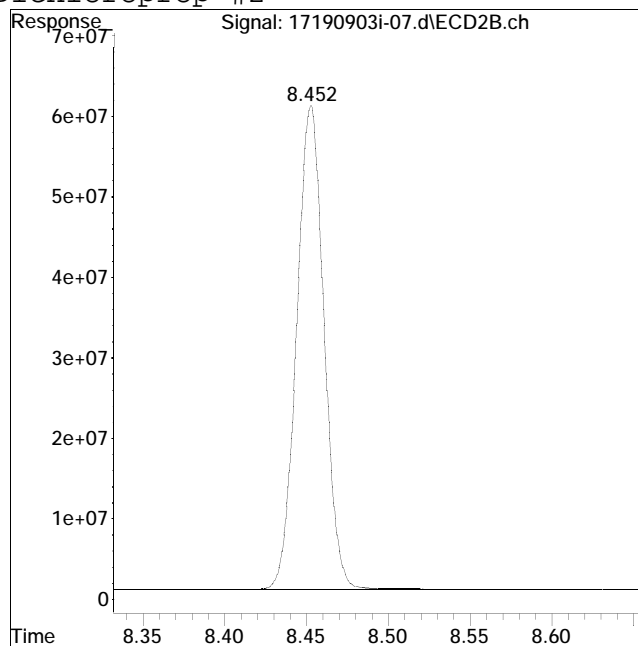
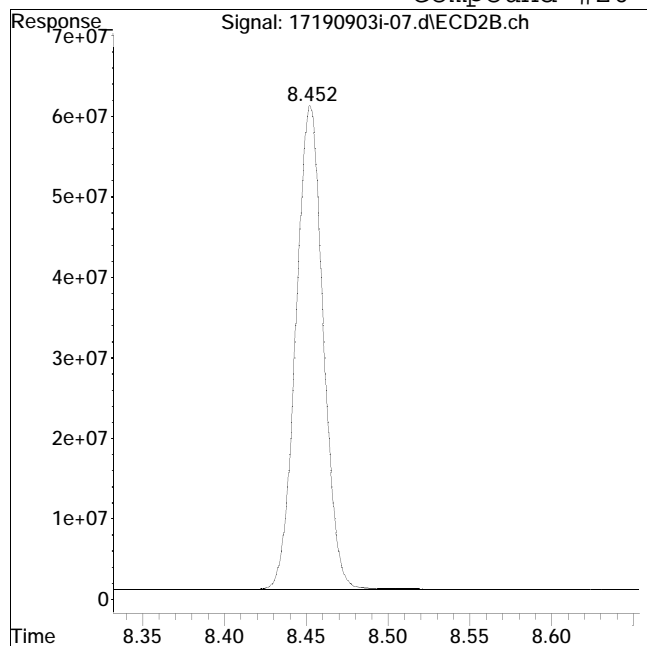
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-07.d
Date Inj'd : 9/3/2019 12:42 pm
Sample : il6herb,42e,,9275

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:12 pm

Compound #20: Dichloroprop #2



Original Peak Response = 700583914

Manual Peak Response = 701035481 M4

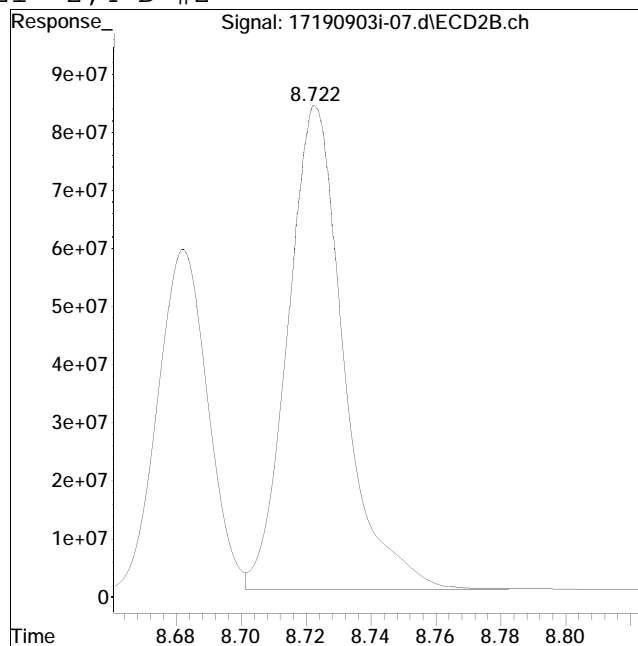
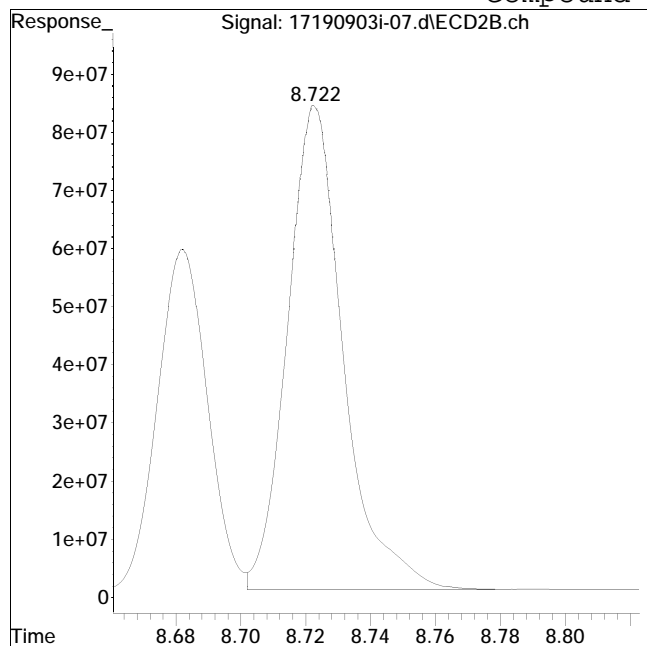
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-07.d
Date Inj'd : 9/3/2019 12:42 pm
Sample : il6herb,42e,,9275

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:12 pm

Compound #21: 2,4-D #2



Original Peak Response = 997635081

Manual Peak Response = 1001642231 M4

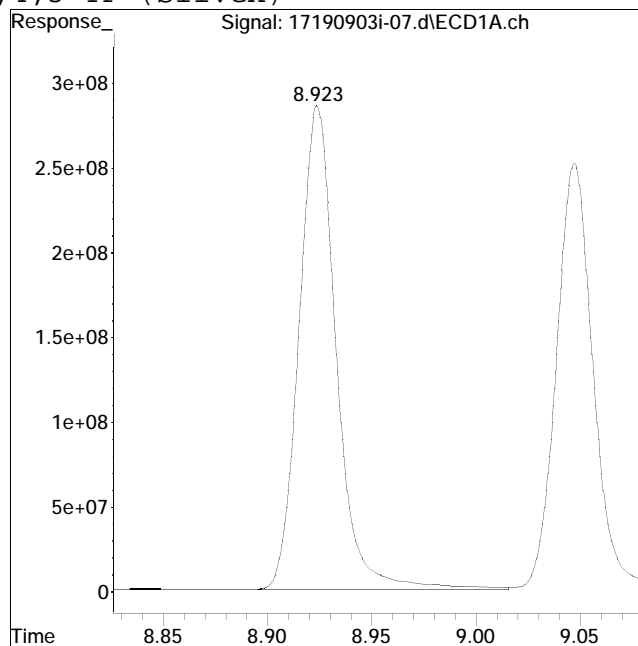
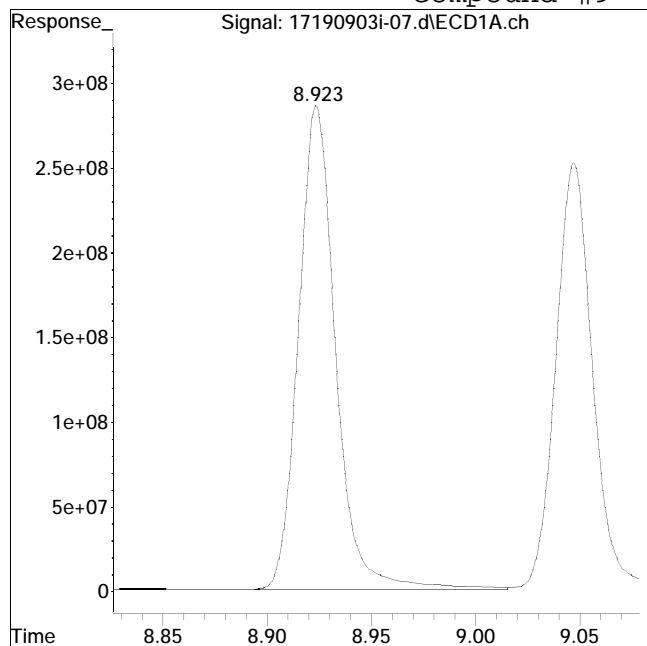
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-07.d
Date Inj'd : 9/3/2019 12:42 pm
Sample : il6herb,42e,,9275

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:12 pm

Compound #9: 2,4,5-TP (Silvex)



Original Peak Response = 3568265273

Manual Peak Response = 3560882979 M4

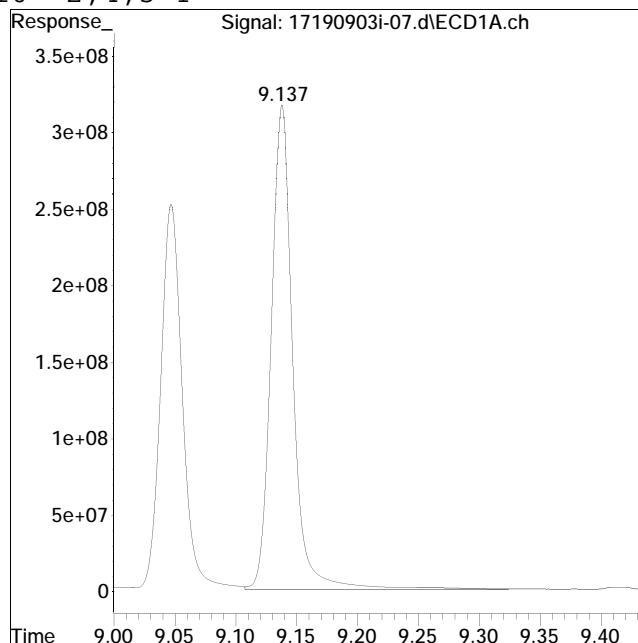
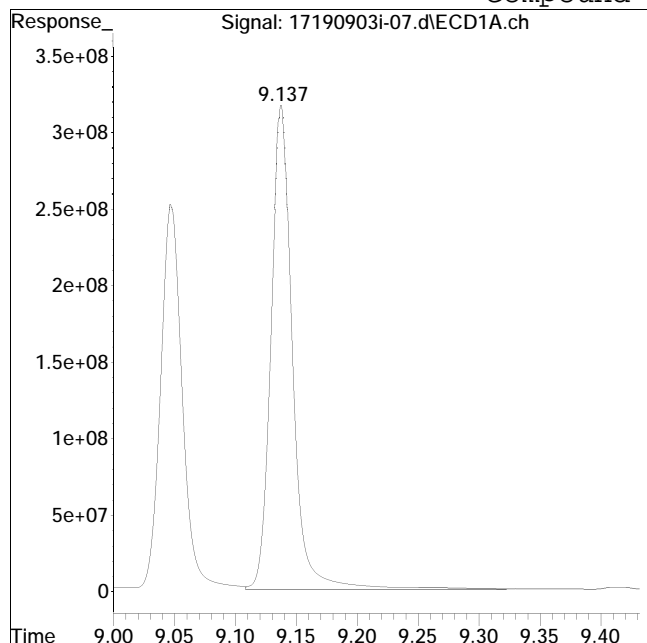
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-07.d
Date Inj'd : 9/3/2019 12:42 pm
Sample : il6herb,42e,,9275

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:12 pm

Compound #10: 2,4,5-T



Original Peak Response = 3958432716

Manual Peak Response = 3934837492 M4

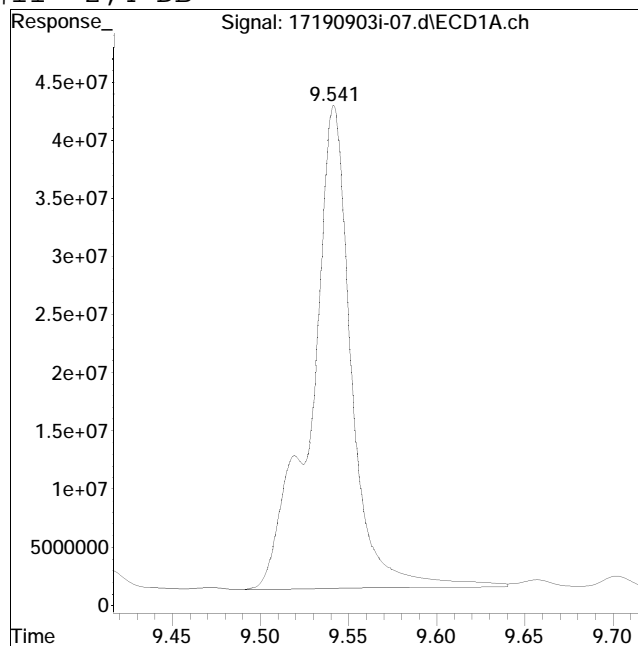
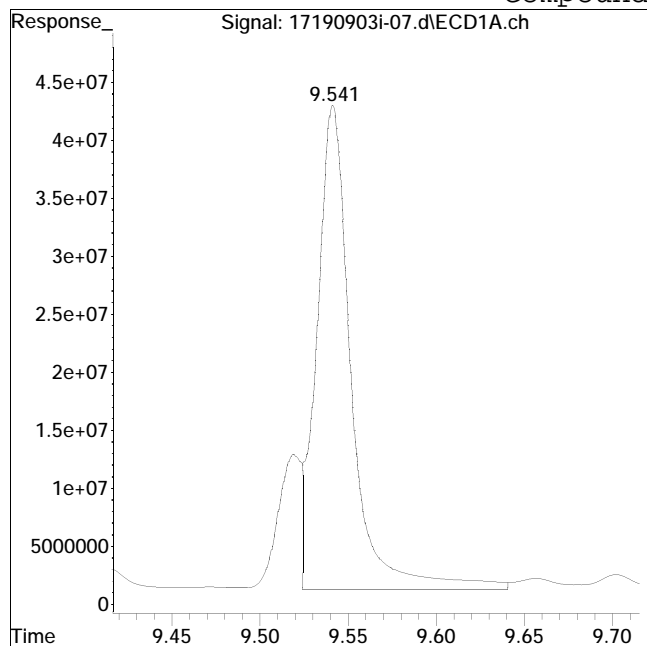
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-07.d
Date Inj'd : 9/3/2019 12:42 pm
Sample : il6herb,42e,,9275

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:12 pm

Compound #11: 2,4-DB



Original Peak Response = 574161351

Manual Peak Response = 656085495 M4

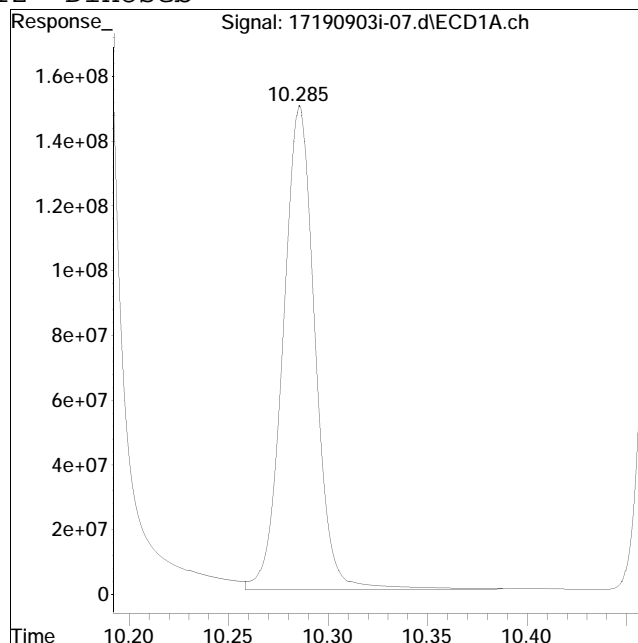
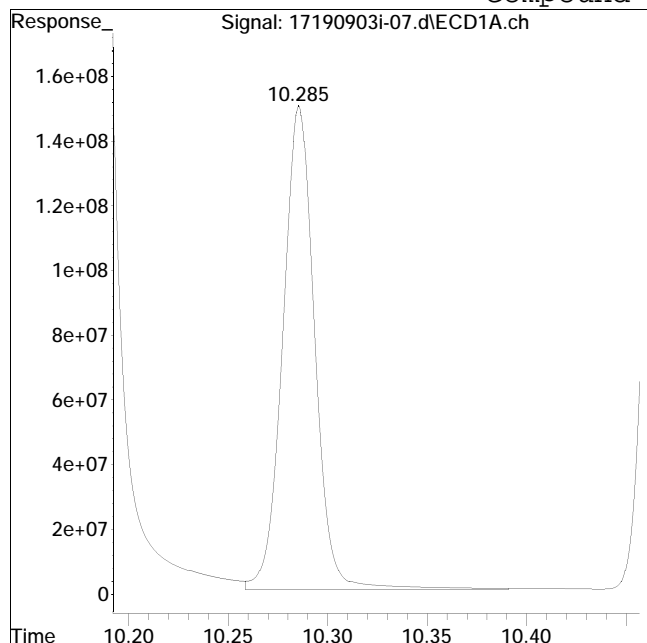
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-07.d
Date Inj'd : 9/3/2019 12:42 pm
Sample : il6herb,42e,,9275

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:12 pm

Compound #12: Dinoseb



Original Peak Response = 1682183312

Manual Peak Response = 1664889686 M4

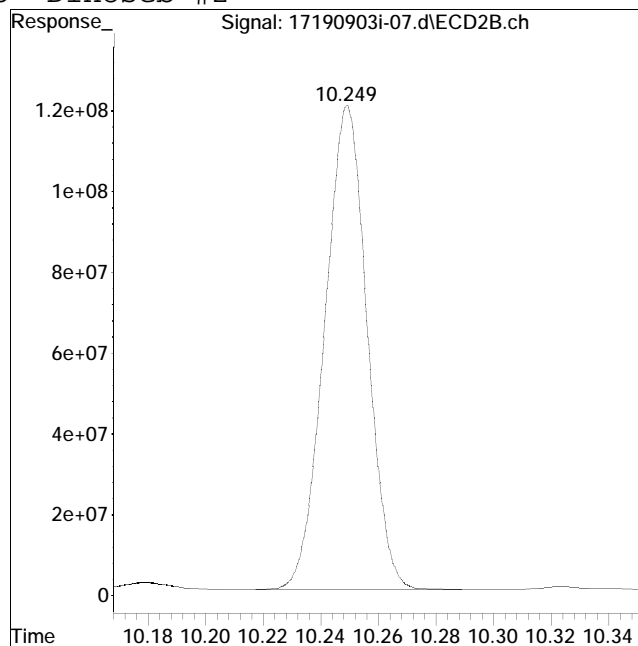
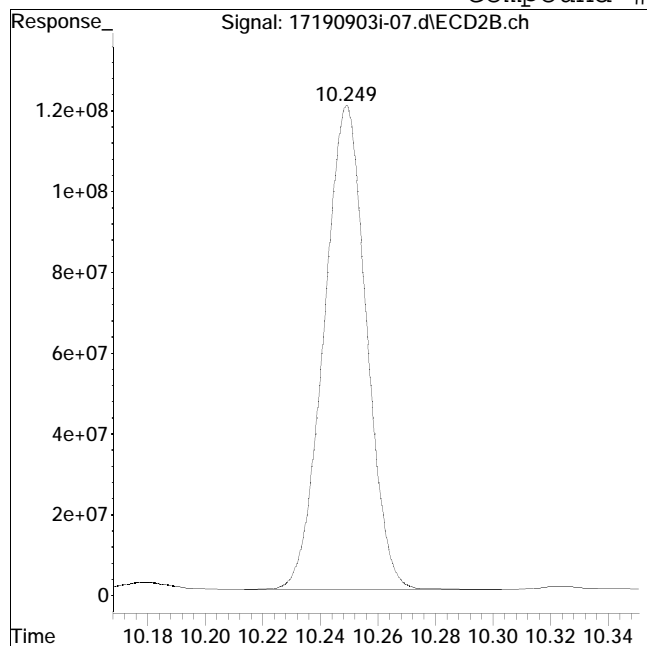
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-07.d
Date Inj'd : 9/3/2019 12:42 pm
Sample : il6herb,42e,,9275

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/4/2019 2:12 pm

Compound #25: Dinoseb #2



Original Peak Response = 1230446596

Manual Peak Response = 1227103713 M4

M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\Pest17\190903ICAL\
 Data File : 17190903i-08.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 3 Sep 2019 1:01 pm
 Operator : PEST17:dgm
 Sample : cicv,42e,,9404
 Misc : wgl280590, (Sig #1); ical (Sig #2)
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Sep 05 09:06:37 2019
 Quant Method : I:\Pest17\190903ICAL\Herb17_07_31_ICAL.m
 Quant Title : herb
 QLast Update : Thu Sep 05 09:06:35 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 i	4,4'-DBOB	0.250	0.250	0.0	93	0.00
2 t	Dalapon	0.182	0.189	-3.8	96	1.25#
3 s	DCAA (surrogate)	0.188	0.205	-9.0	95	0.00
4 t	Dicamba	0.188	0.201	-6.9	102	0.00
5 t	MCP	18.800	20.813	-10.7	103	0.00
6 t	MCPA	18.600	19.202	-3.2	104	0.00
7 t	Dichloroprop	0.188	0.207	-10.1	112	0.00
8 t	2,4-D	0.188	0.214	-13.8	108	0.00
9 t	2,4,5-TP (Silvex)	0.190	0.217	-14.2	110	0.00
10 t	2,4,5-T	0.190	0.213	-12.1	104	0.00
11 t	2,4-DB	0.192	0.191	0.5	94	0.00
12 t	Dinoseb	0.190	0.217	-14.2	121	0.00

Signal #2

1 i	4,4'-DBOB	0.250	0.250	0.0	95	0.00
2 t	Dalapon	0.182	0.190	-4.4	105	1.23#
3 s	DCAA (surrogate)	0.188	0.193	-2.7	95	0.00
4 t	Dicamba	0.188	0.199	-5.9	104	0.00
5 t	MCP	18.800	19.767	-5.1	103	0.00
6 t	MCPA	18.600	20.627	-10.9	102	0.00
7 t	Dichloroprop	0.188	0.214	-13.8	115	0.00
8 t	2,4-D	0.188	0.197	-4.8	104	0.00
9 t	2,4,5-TP (Silvex)	0.190	0.218	-14.7	115	0.00
10 t	2,4,5-T	0.190	0.201	-5.8	109	0.00
11 t	2,4-DB	0.192	0.211	-9.9	109	0.00
12 t	Dinoseb	0.190	0.218	-14.7	117	0.00

Evaluate Continuing Calibration Report - Not Found

Evaluate Continuing Calibration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-08.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Sep 2019 1:01 pm
Operator : PEST17:dgm
Sample : cicv,42e,,9404
Misc : wgl280590, (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 05 09:06:37 2019
Quant Method : I:\Pest17\190903ICAL\Herb17_07_31_ICAL.m
Quant Title : herb
QLast Update : Thu Sep 05 09:06:35 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

Signal #2					

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\190903ICAL\
 Data File : 17190903i-08.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 3 Sep 2019 1:01 pm
 Operator : PEST17:dgm
 Sample : cicv,42e,,9404
 Misc : wgl280590, (Sig #1); ical (Sig #2)
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Sep 05 09:06:37 2019
 Quant Method : I:\Pest17\190903ICAL\Herb17_07_31_ICAL.m
 Quant Title : herb
 QLast Update : Thu Sep 05 09:06:35 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Internal Standards							
1) i	4,4'-DFOB	8.654	8.682	624.4E6	623.0E6	0.250M4	0.250
System Monitoring Compounds							
3) s	DCAA (surrog	7.119	7.617	82965430	96482410	0.205	0.193
	Spiked Amount	0.500	Range 30 - 150	Recovery =		41.00%	38.60%
Target Compounds							
2) t	Dalapon	2.092	2.159	66184389	74424426	0.189	0.190M4
4) t	Dicamba	7.305	7.801	248.4E6	279.7E6	0.201	0.199
5) t	MCPD	7.506	7.911	33940933	38918255	20.813	19.767
6) t	MCPA	7.651	8.136	57378377	62599959	19.202	20.627M4
7) t	Dichloroprop	8.007	8.452	82607016	89878469	0.207	0.214
8) t	2,4-D	8.213	8.723	98862955	109.1E6	0.214	0.197
9) t	2,4,5-TP (Si	8.925	9.379	382.6E6	387.5E6	0.217	0.218
10) t	2,4,5-T	9.139	9.664	394.9E6	358.9E6	0.213	0.201
11) t	2,4-DB	9.544	10.025	58059346	66978235	0.191	0.211
12) t	Dinoseb	10.286	10.249	145.3E6	137.5E6	0.217	0.218

SemiQuant Compounds - Not Calibrated on this Instrument

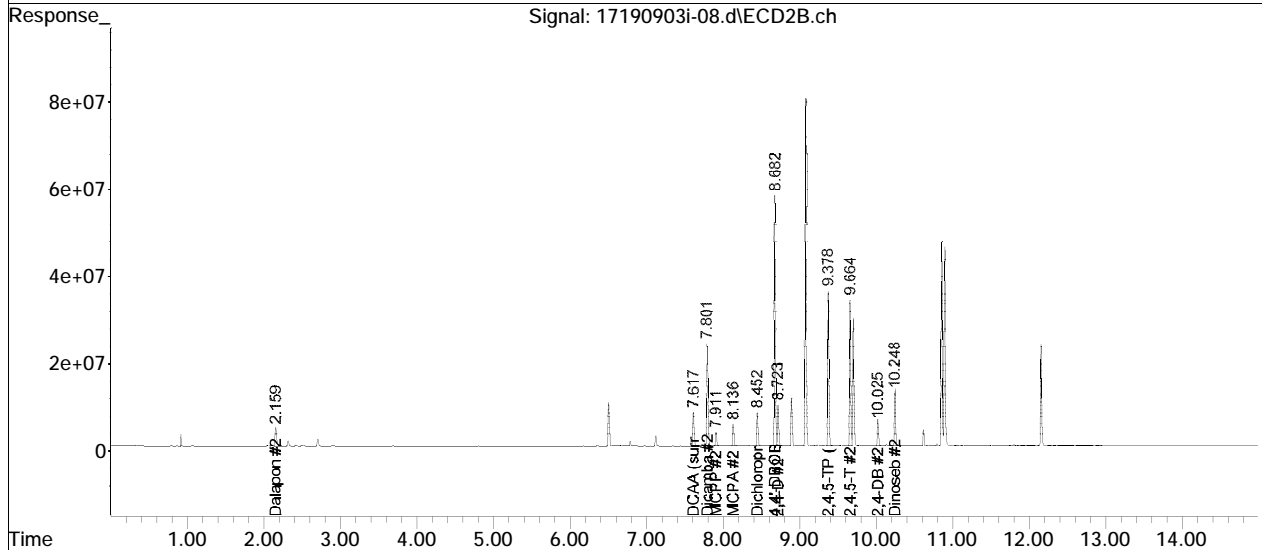
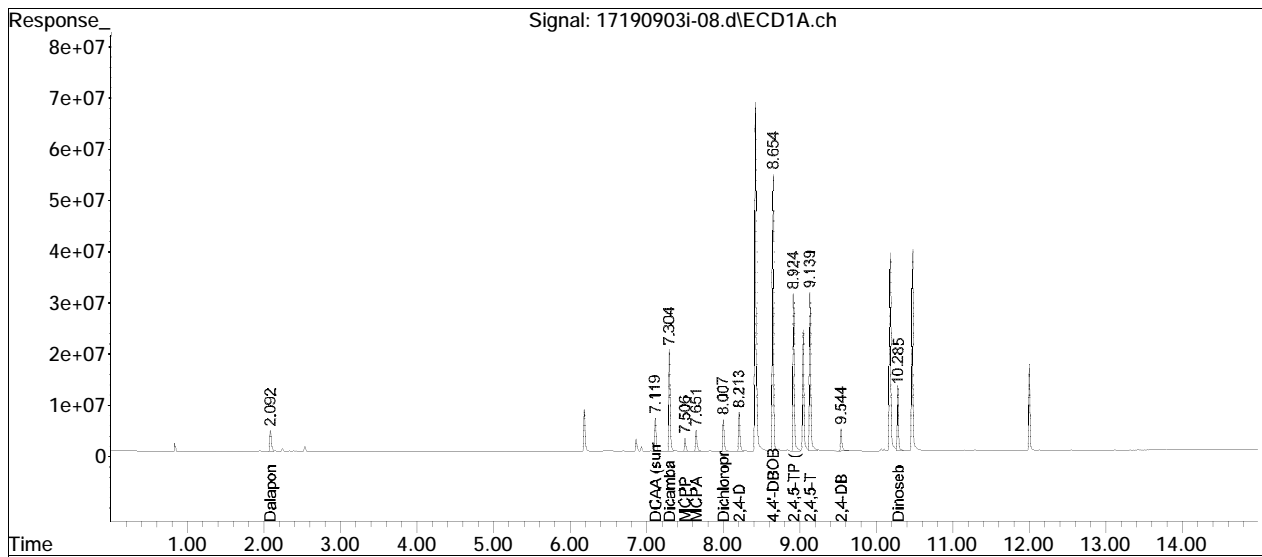
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coeluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-08.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Sep 2019 1:01 pm
Operator : PEST17:dgm
Sample : cicv,42e,,9404
Misc : wgl280590, (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 05 09:06:37 2019
Quant Method : I:\Pest17\190903ICAL\Herb17_07_31_ICAL.m
Quant Title : herb
QLast Update : Thu Sep 05 09:06:35 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

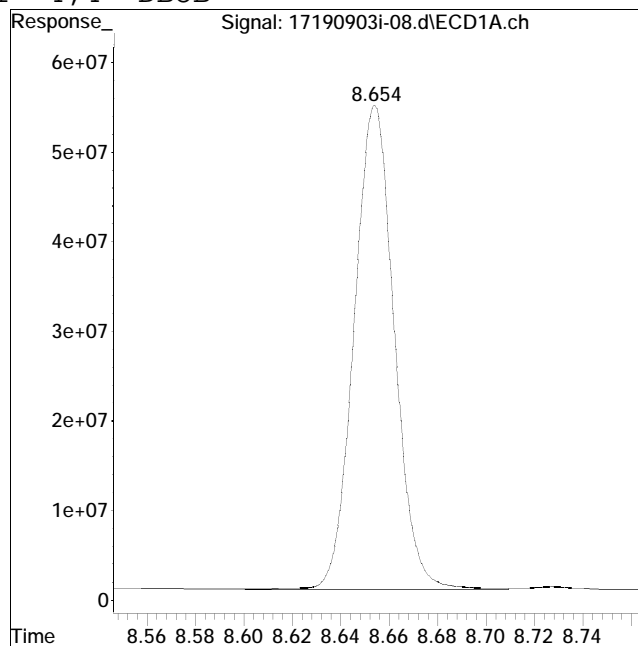
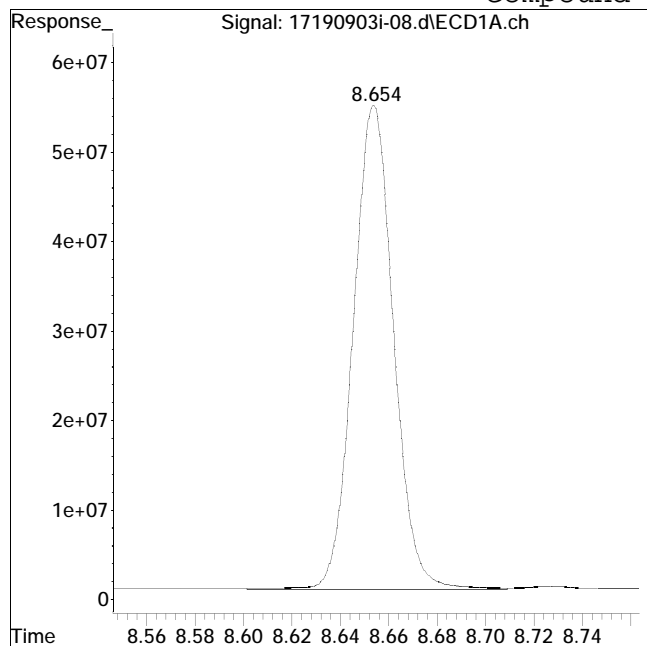


Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-08.d
Date Inj'd : 9/3/2019 1:01 pm
Sample : cicv,42e,,9404

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/5/2019 9:06 am

Compound #1: 4,4'-DBOB



Original Peak Response = 629524379

Manual Peak Response = 624422066 M4

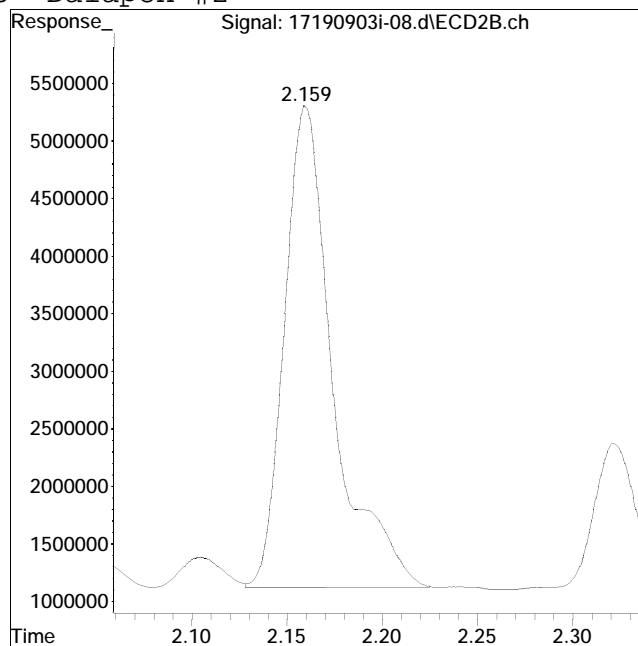
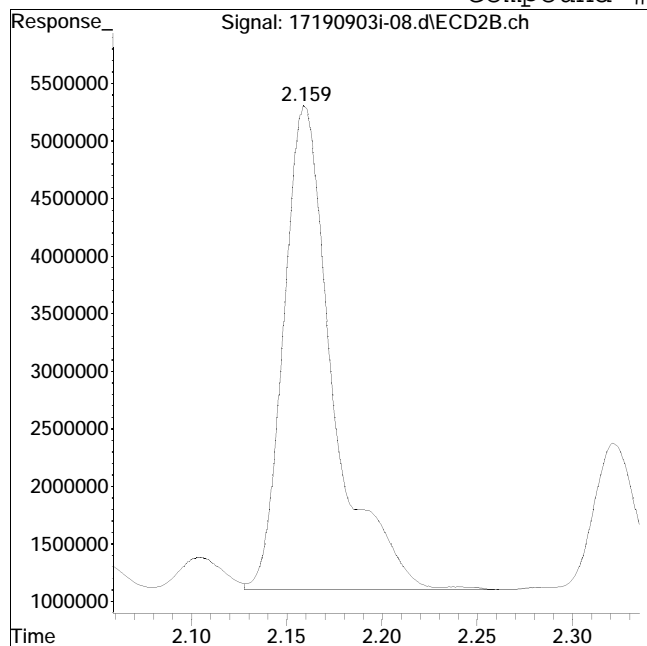
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-08.d
Date Inj'd : 9/3/2019 1:01 pm
Sample : cicv,42e,,9404

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/5/2019 9:06 am

Compound #15: Dalapon #2



Original Peak Response = 75927921

Manual Peak Response = 74424426 M4

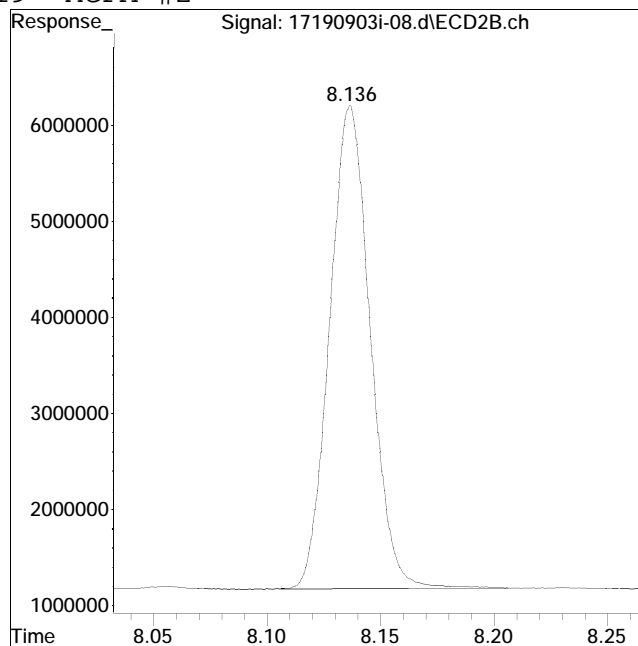
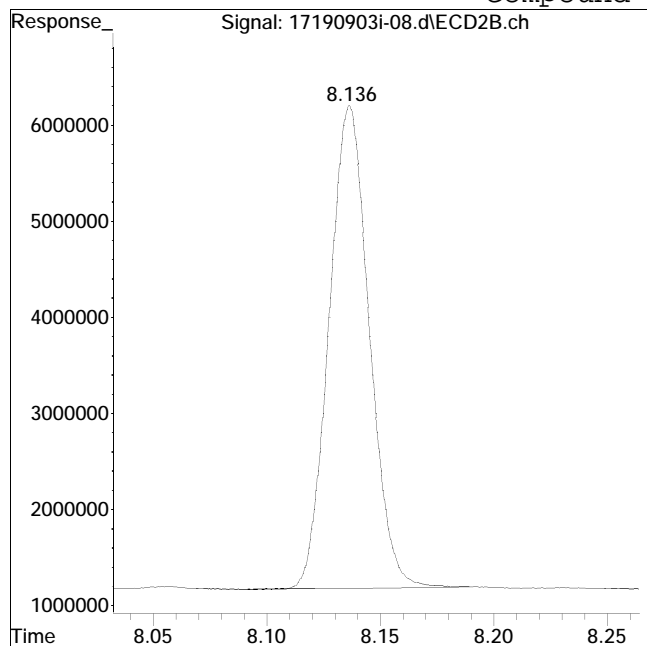
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\190903ICAL\
Data File : 17190903i-08.d
Date Inj'd : 9/3/2019 1:01 pm
Sample : cicv,42e,,9404

QMethod : Herb17_07_31_ICAL.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 9/5/2019 9:06 am

Compound #19: MCPA #2



Original Peak Response = 62076317

Manual Peak Response = 62599959 M4

M4 = Poor automated baseline construction.

Response Factor Report Pest22

Method Path : I:\Pest22\data\2019\191208ical\
 Method File : Herb22_19_12_08_mgL_ICAL.m
 Title : herb
 Last Update : Mon Dec 09 12:05:05 2019
 Response Via : Initial Calibration

Calibration Files

1 =22191208i-02.D 2 =22191208i-03.D 3 =22191208i-04.D 4 =22191208i-05.D 5 =22191208i-06.D
 6 =22191208i-07.D

Compound	1	2	3	4	5	6	Avg	%RSD
-----ISTD-----								
1) i 4,4'-DBOB								
2) t Dalapon	0.199	0.180	0.175	0.153	0.156	0.134	0.166	13.93
3) s DCAA (surrogate)	0.196	0.179	0.168	0.154	0.144	0.131	0.162	14.65
4) t Dicamba	0.542	0.515	0.502	0.480	0.500	0.447	0.498	6.44
5) t MCPP	0.001	0.001	0.001	0.001	0.001	0.001	0.001	5.29
6) t MCPA	0.001	0.001	0.001	0.001	0.001	0.001	0.001	17.73
7) t Dichloroprop	0.176	0.162	0.152	0.138	0.137		0.153	10.93
8) t 2,4-D	0.213	0.201	0.185	0.177	0.175		0.190	8.52
9) t 2,4,5-TP (Sil...)	0.722	0.707	0.672	0.650	0.663	0.594	0.668	6.75
10) t 2,4,5-T	0.748	0.741	0.698	0.687	0.702	0.633	0.701	5.94
11) t 2,4-DB	0.160	0.153	0.145	0.118	0.119	0.106	0.133	16.49
12) t Dinoseb	0.579	0.533	0.492	0.459	0.469	0.420	0.492	11.50

Signal #2 Calibration Files

1 =22191208i-02.D 2 =22191208i-03.D 3 =22191208i-04.D 4 =22191208i-05.D 5 =22191208i-06.D
 6 =22191208i-07.D

Compound	1	2	3	4	5	6	Avg	%RSD
-----ISTD-----								
1) i 4,4'-DBOB								
2) t Dalapon	0.218	0.198	0.194	0.171	0.176	0.166	0.187	10.57
3) s DCAA (surrogate)	0.213	0.198	0.189	0.179	0.174	0.173	0.188	8.39
4) t Dicamba	0.577	0.555	0.541	0.527	0.559	0.545	0.551	3.11
5) t MCPP	0.001	0.001	0.001	0.001	0.001	0.001	0.001	5.46
6) t MCPA	0.001	0.001	0.001	0.001	0.001	0.001	0.001	12.98
7) t Dichloroprop	0.178	0.168	0.158	0.146	0.150		0.160	8.13
8) t 2,4-D	0.287	0.272	0.224	0.210	0.209		0.240	15.25
9) t 2,4,5-TP (Sil...)	0.753	0.733	0.700	0.694	0.722	0.705	0.718	3.15
10) t 2,4,5-T	0.768	0.746	0.711	0.704	0.740	0.727	0.733	3.24
11) t 2,4-DB	0.131	0.122	0.112	0.109	0.113	0.113	0.117	7.14

Response Factor Report Pest22

Method Path : I:\Pest22\data\2019\191208ical\
 Method File : Herb22_19_12_08_mgL_ICAL.m
 Title : herb
 Last Update : Mon Dec 09 12:05:05 2019
 Response Via : Initial Calibration

Calibration Files

1 =22191208i-02.D 2 =22191208i-03.D 3 =22191208i-04.D 4 =22191208i-05.D 5 =22191208i-06.D
 6 =22191208i-07.D

Compound	1	2	3	4	5	6	Avg	%RSD
12) t Dinoseb	0.570	0.517	0.486	0.473	0.481	0.465	0.499	7.85

 (#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : I:\Pest22\data\2019\191208ical\
 Data File : 22191208i-02.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Dec 2019 06:48 pm
 Operator : pest22:dgm
 Sample : iLlherb9499,42e,,
 Misc : wgl318475,ical
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 09 12:02:25 2019
 Quant Method : I:\Pest22\data\2019\191208ical\Herb22_19_12_08_mgL_ICAL.m
 Quant Title : herb
 QLast Update : Mon Dec 09 11:06:46 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Internal Standards							
1) i	4,4'-DBOB	8.079	8.208	472.7E6	418.3E6	0.250M4	0.250M4
System Monitoring Compounds							
3) s	DCAA (surrog	6.539	7.135	17433738	16724758	0.059M4	0.055M4
Spiked Amount		0.500	Range	30 - 150	Recovery	=	11.80%# 11.00%#
Target Compounds							
2) t	Dalapon	2.083	2.167	17150696	16621100	0.057M4	0.054M4
4) t	Dicamba	6.712	7.311	48137083	45397001	0.052M4	0.050M4
5) t	MCPPP	6.918	7.427	5004423	4709371	4.314M4	4.132M4
6) t	MCPA	7.065	7.654	12066477	11432679	6.151M4	5.725M4
7) t	Dichloroprop	7.416	7.971	15678132	13971507	0.057M4	0.054M4
8) t	2,4-D	7.632	8.256	18916870	22604879	0.056M4	0.061M4
9) t	2,4,5-TP (Si	8.357	8.919	64802805	59873978	0.052M4	0.050M4
10) t	2,4,5-T	8.585	9.215	67142833	61032555	0.051	0.050M4
11) t	2,4-DB	8.999	9.580	14478349	10538188	0.060M4	0.055M4
12) t	Dinoseb	9.745	9.804	52037358	45288080	0.058M4	0.056M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\Pest22\data\2019\191208ical\
 Data File : 22191208i-02.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Dec 2019 06:48 pm
 Operator : pest22:dgm
 Sample : iLlherb9499,42e,,
 Misc : wgl318475,ical
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 09 12:02:25 2019
 Quant Method : I:\Pest22\data\2019\191208ical\Herb22_19_12_08_mgL_ICAL.m
 Quant Title : herb
 QLast Update : Mon Dec 09 11:06:46 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

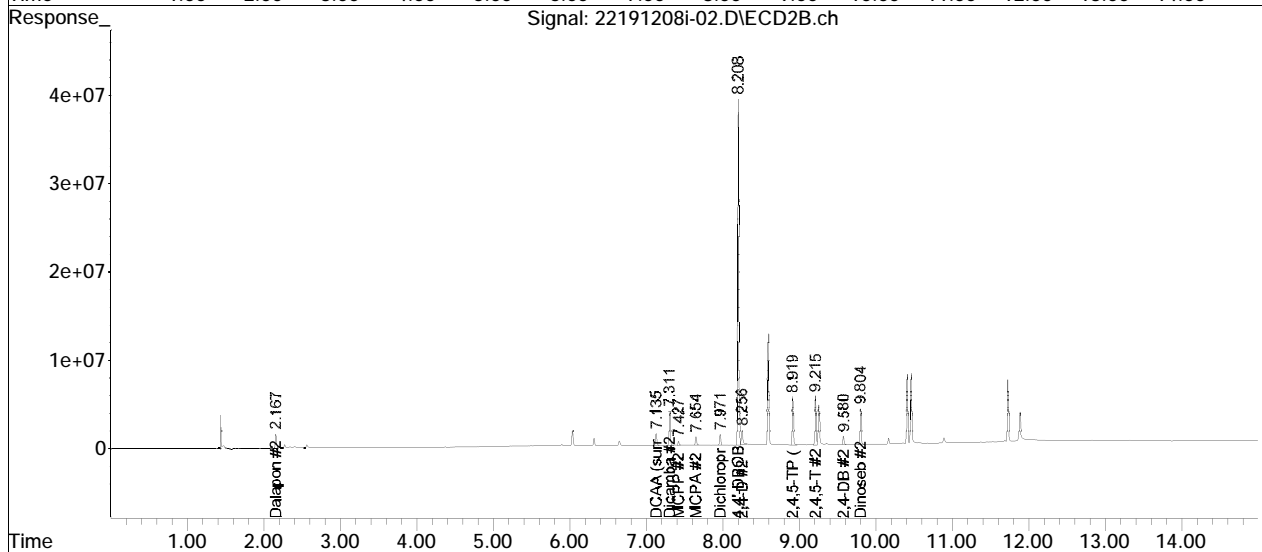
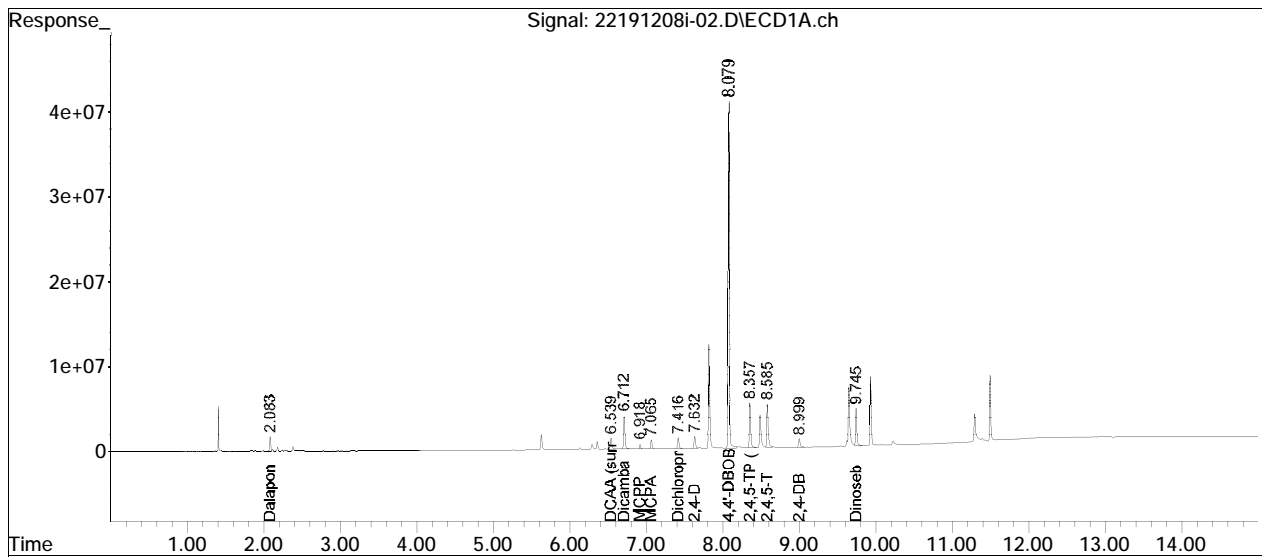
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.						
(#)=Recovery Exceeds Compound Acceptance Limits.						
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.						

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest22\data\2019\191208ical\
Data File : 22191208i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Dec 2019 06:48 pm
Operator : pest22:dgm
Sample : iLlherb9499,42e,,
Misc : wg1318475,ical
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 09 12:02:25 2019
Quant Method : I:\Pest22\data\2019\191208ical\Herb22_19_12_08_mgL_ICAL.m
Quant Title : herb
QLast Update : Mon Dec 09 11:06:46 2019
Response via : Initial Calibration
Integrator: ChemStation

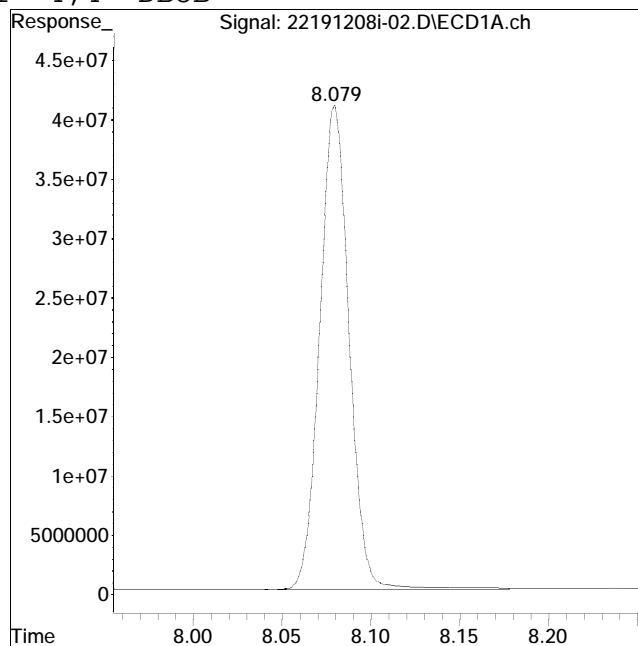
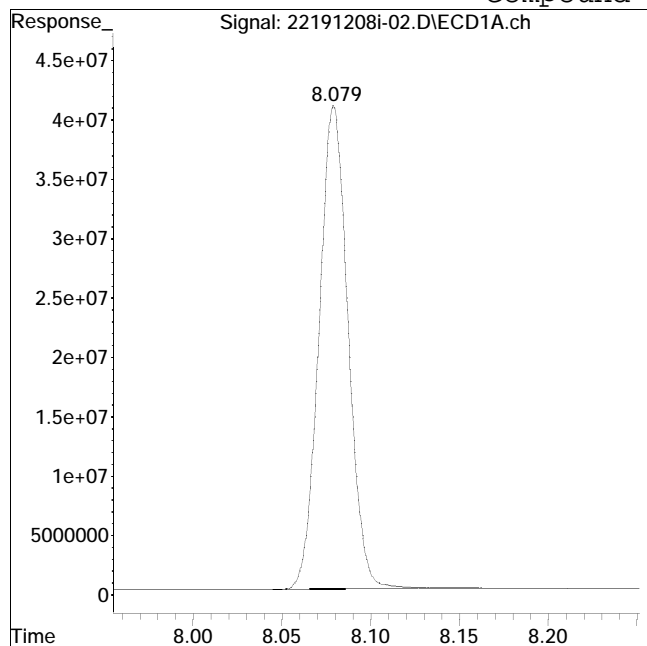
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-02.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 6:48 pm Instrument : Pest22
Sample : iL1herb9499,42e,, Quant Date : 12/9/2019 11:07 am

Compound #1: 4,4'-DBOB



Original Peak Response = 462608785

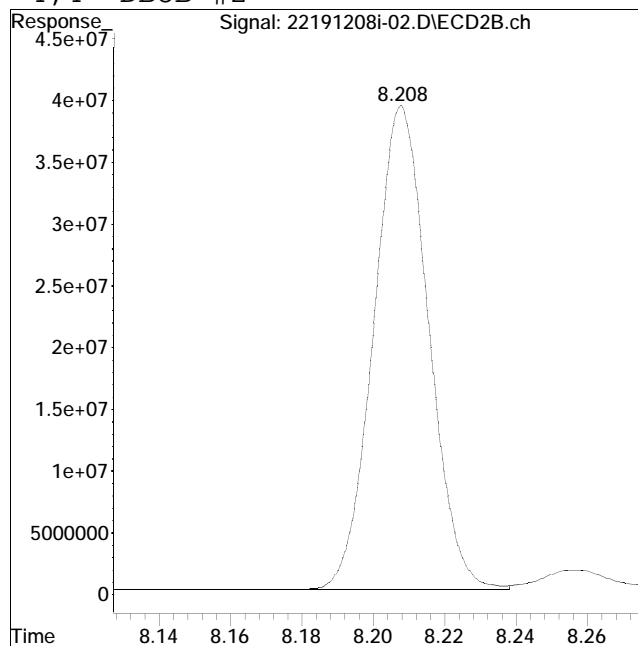
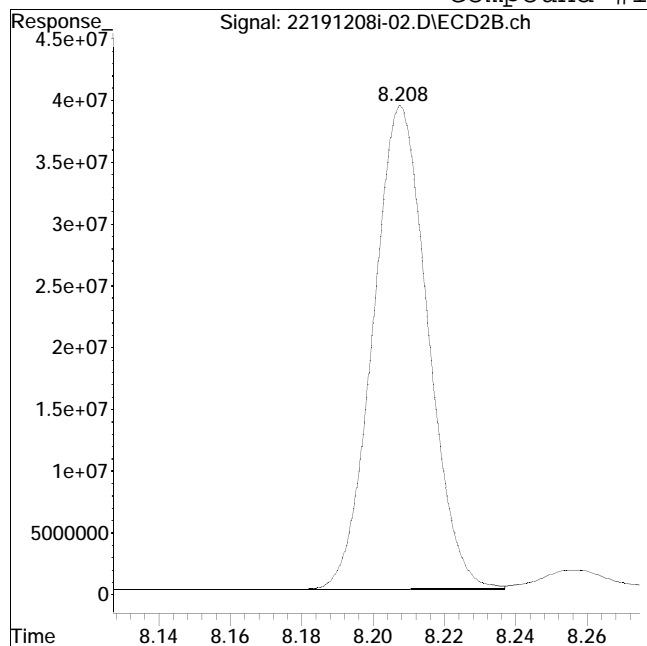
Manual Peak Response = 472692306 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-02.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 6:48 pm Instrument : Pest22
Sample : iL1herb9499,42e,, Quant Date : 12/9/2019 11:07 am

Compound #14: 4,4'-DBOB #2



Original Peak Response = 416571773

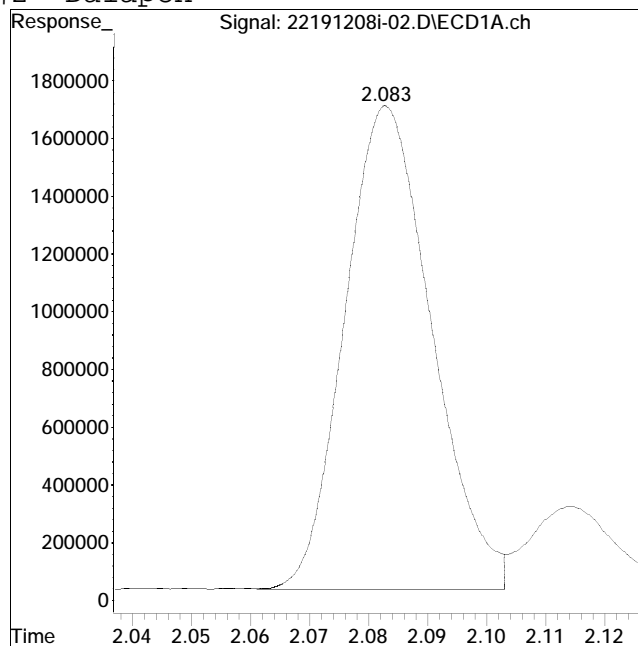
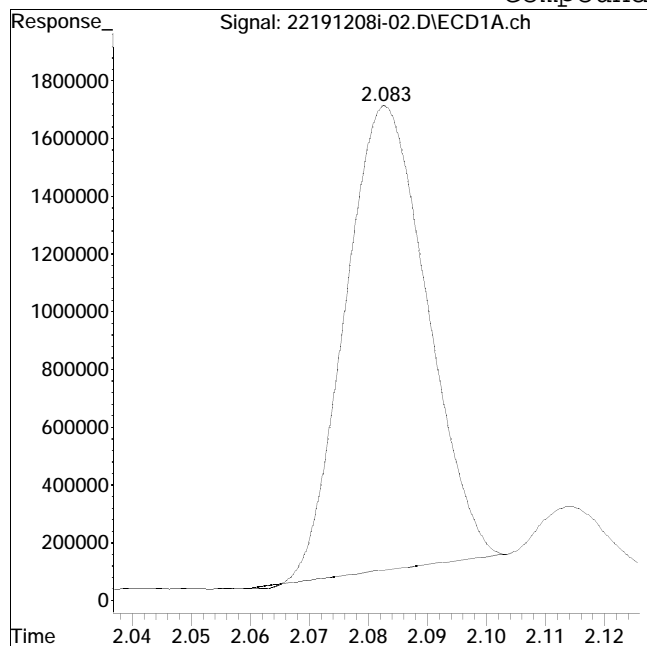
Manual Peak Response = 418330798 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-02.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 6:48 pm Instrument : Pest22
Sample : iL1herb9499,42e,, Quant Date : 12/9/2019 11:07 am

Compound #2: Dalapon



Original Peak Response = 15473340

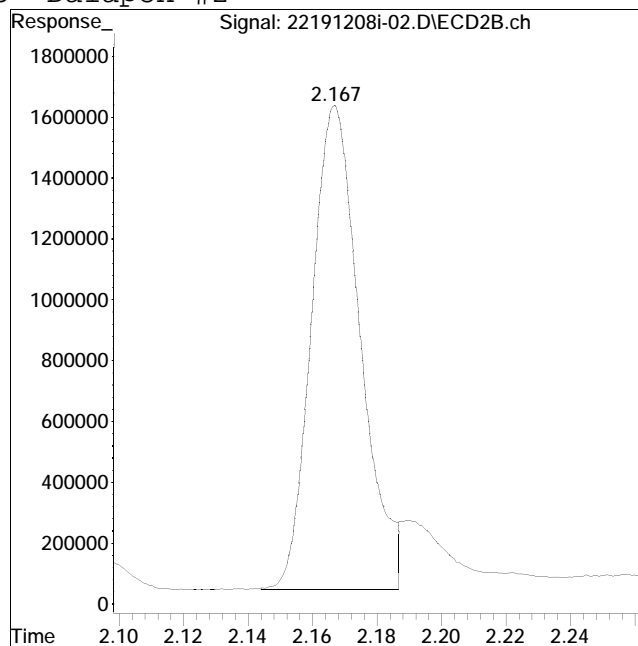
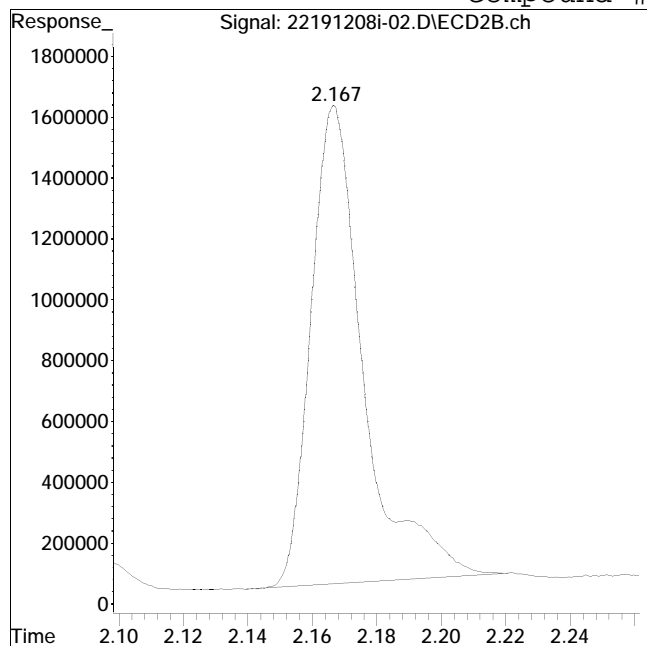
Manual Peak Response = 17150696 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-02.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 6:48 pm Instrument : Pest22
Sample : iL1herb9499,42e,, Quant Date : 12/9/2019 11:07 am

Compound #15: Dalapon #2



Original Peak Response = 17804834

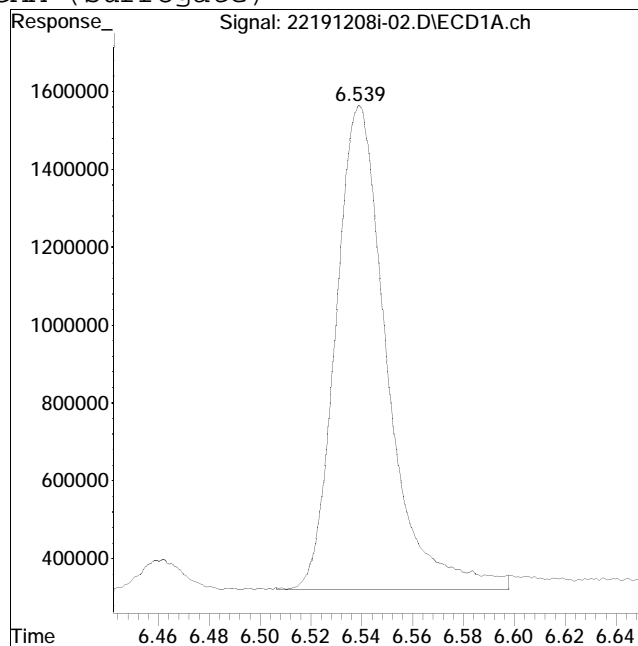
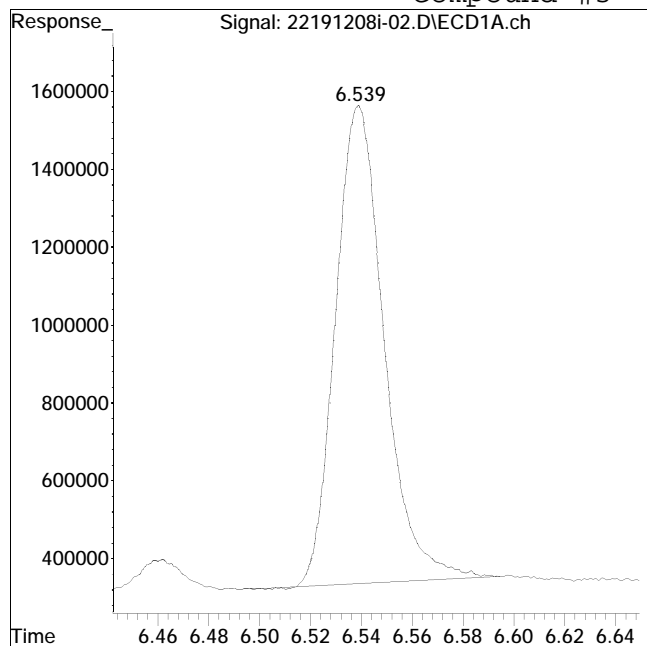
Manual Peak Response = 16621100 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-02.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 6:48 pm Instrument : Pest22
Sample : iL1herb9499,42e,, Quant Date : 12/9/2019 11:07 am

Compound #3: DCAA (surrogate)



Original Peak Response = 16269176

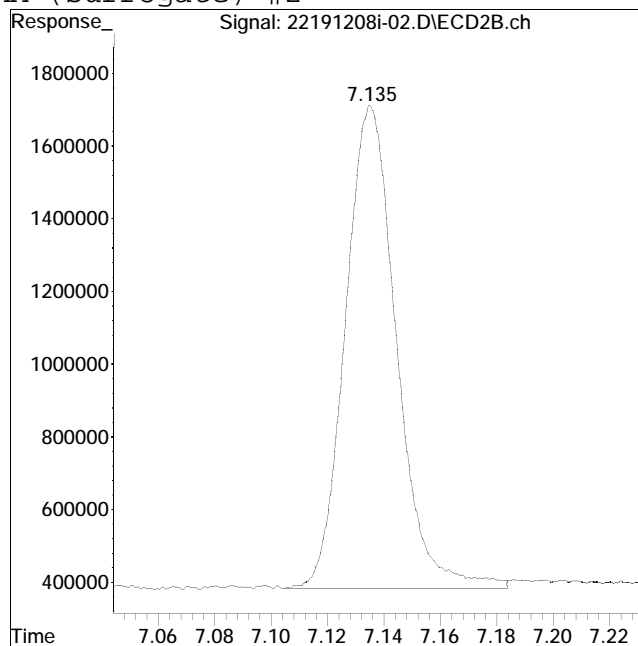
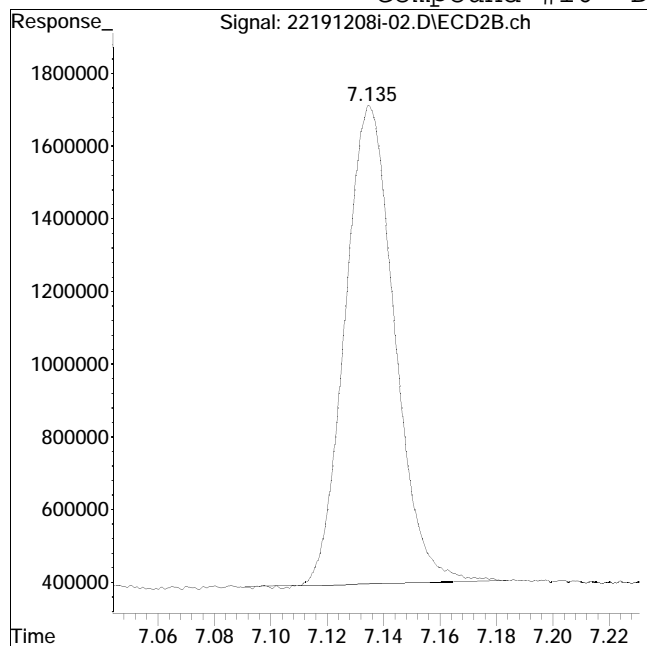
Manual Peak Response = 17433738 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-02.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 6:48 pm Instrument : Pest22
Sample : iL1herb9499,42e,, Quant Date : 12/9/2019 11:07 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 16033080

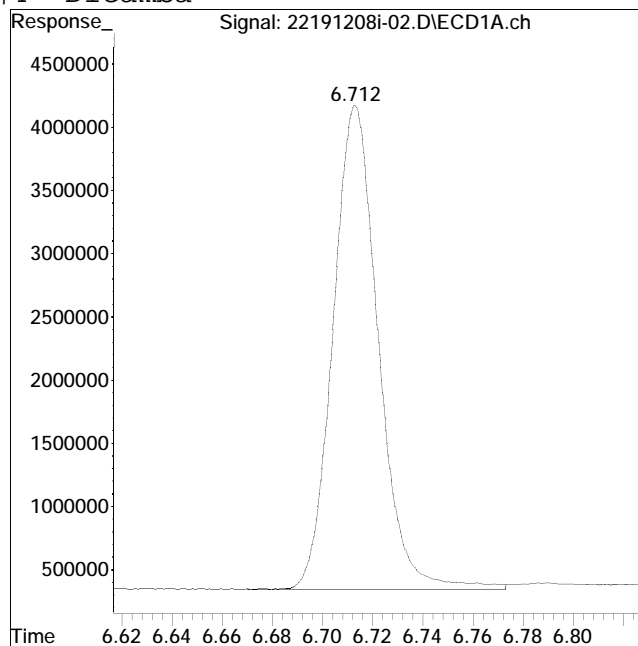
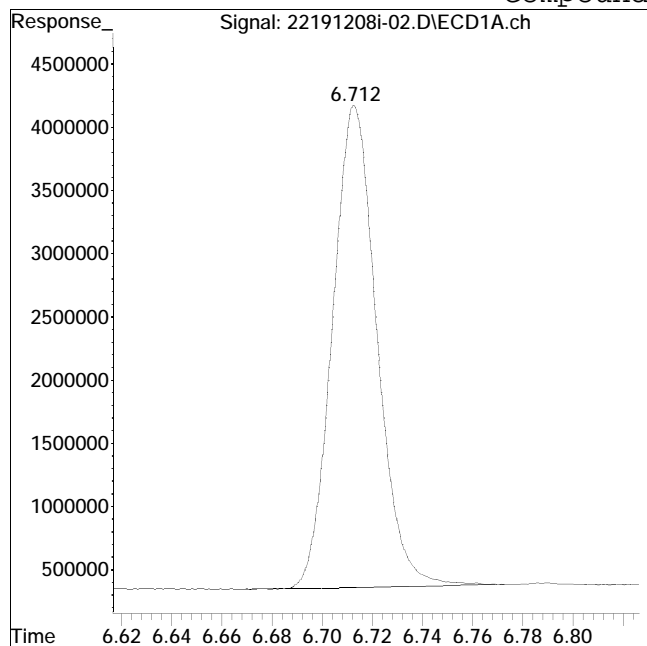
Manual Peak Response = 16724758 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-02.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 6:48 pm Instrument : Pest22
Sample : iL1herb9499,42e,, Quant Date : 12/9/2019 11:07 am

Compound #4: Dicamba



Original Peak Response = 46858555

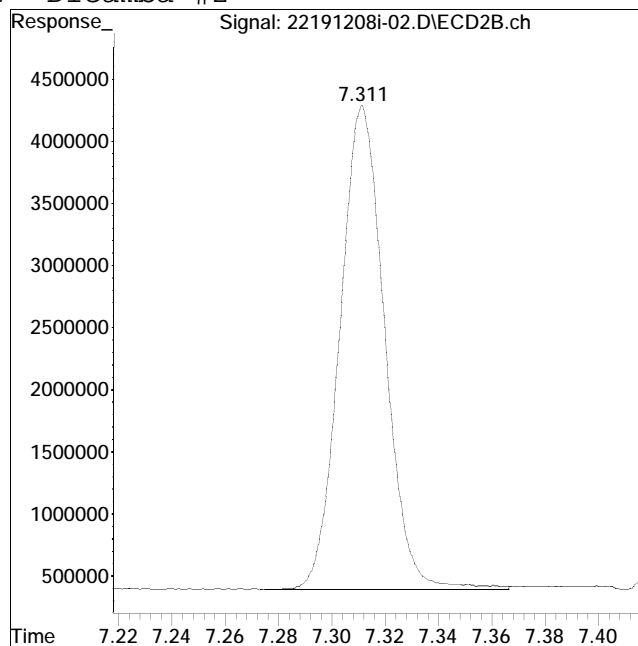
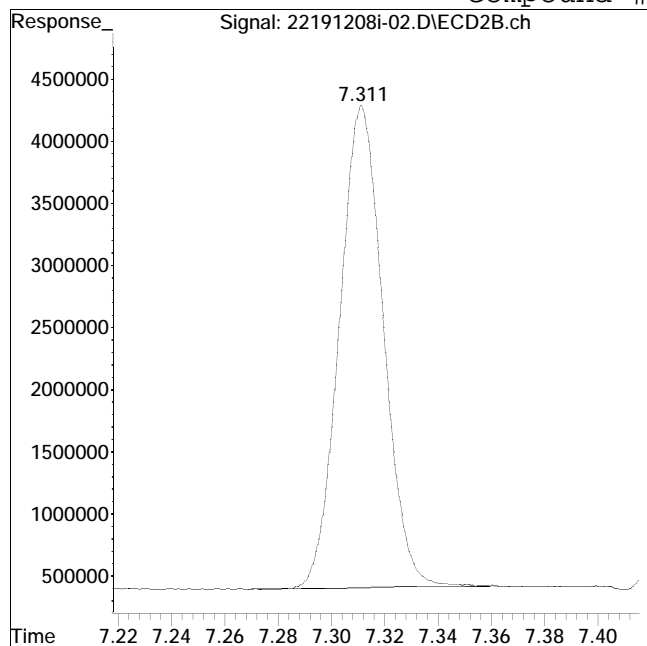
Manual Peak Response = 48137083 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-02.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 6:48 pm Instrument : Pest22
Sample : iL1herb9499,42e,, Quant Date : 12/9/2019 11:07 am

Compound #17: Dicamba #2



Original Peak Response = 44322114

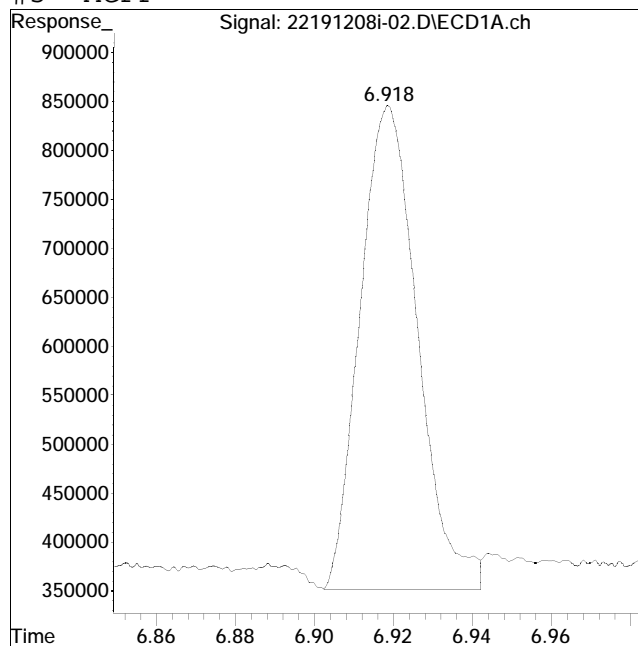
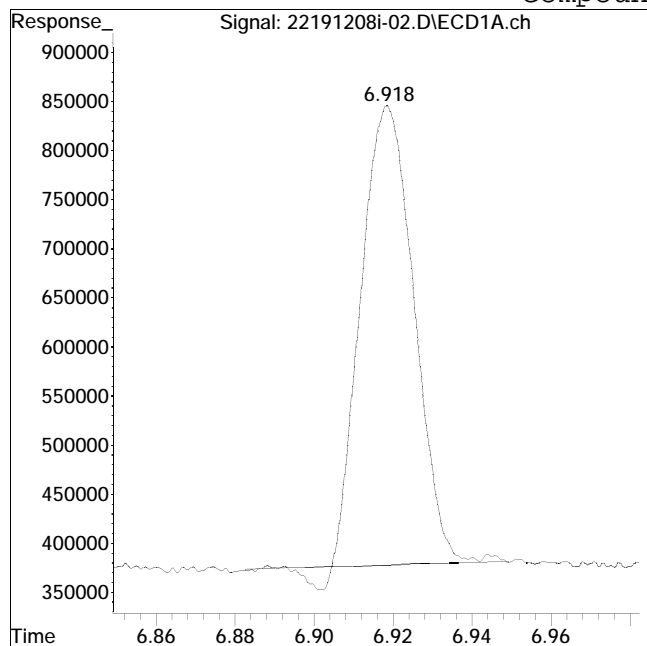
Manual Peak Response = 45397001 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-02.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 6:48 pm Instrument : Pest22
Sample : iL1herb9499,42e,, Quant Date : 12/9/2019 11:07 am

Compound #5: MCP



Original Peak Response = 4307622

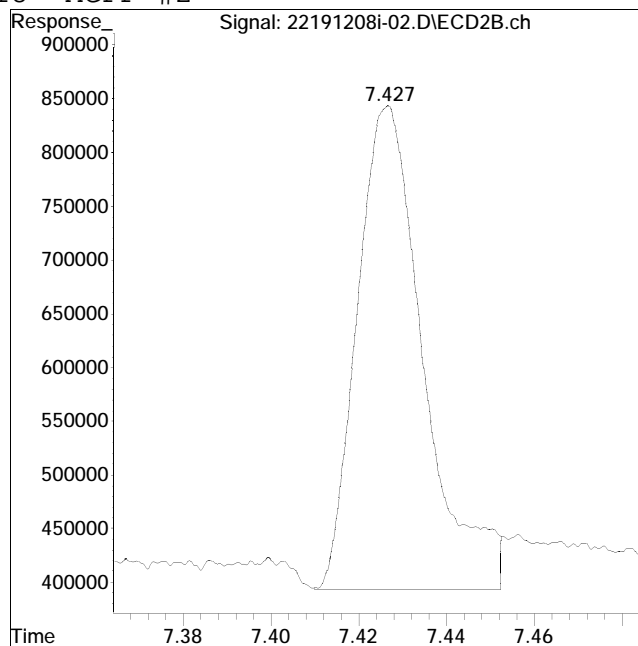
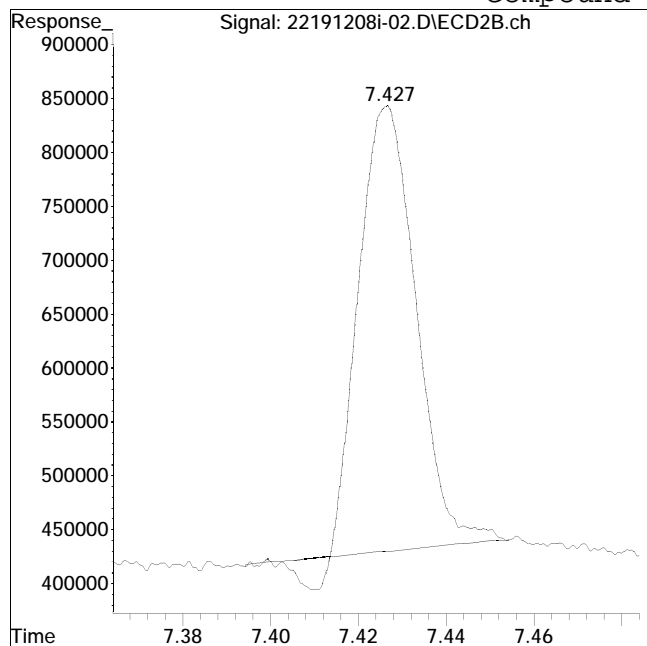
Manual Peak Response = 5004423 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-02.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 6:48 pm Instrument : Pest22
Sample : iL1herb9499,42e,, Quant Date : 12/9/2019 11:07 am

Compound #18: MCPP #2



Original Peak Response = 3633343

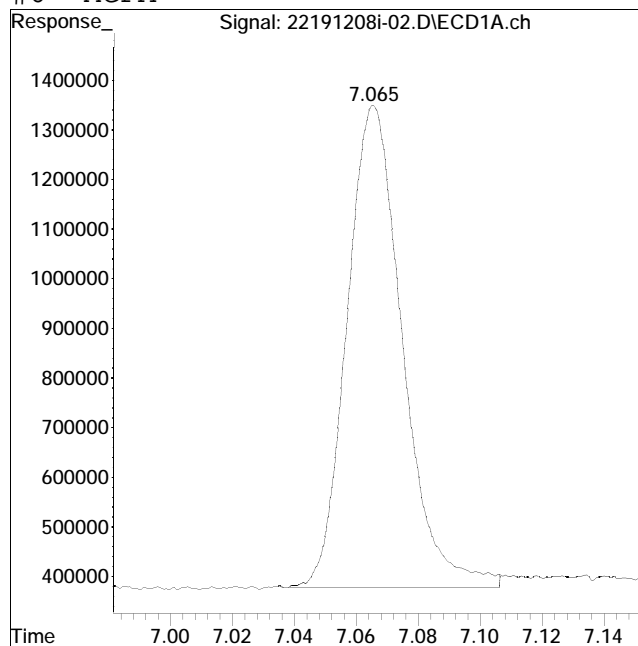
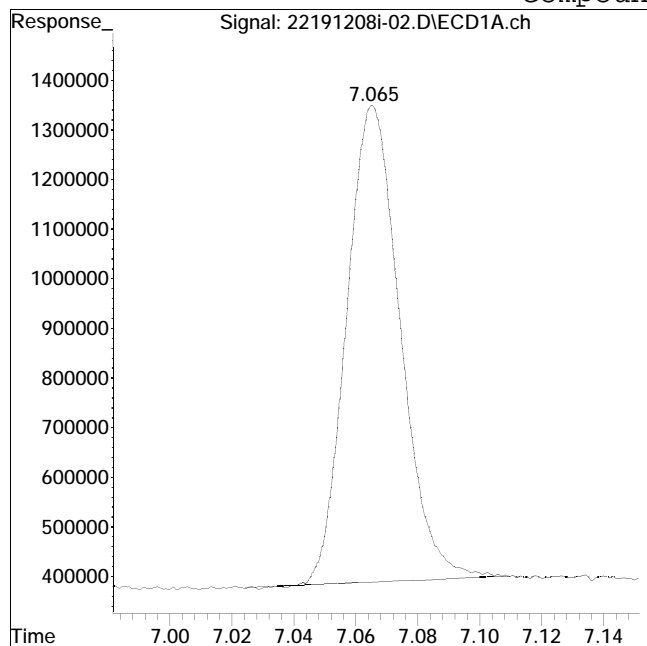
Manual Peak Response = 4709371 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-02.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 6:48 pm Instrument : Pest22
Sample : iL1herb9499,42e,, Quant Date : 12/9/2019 11:07 am

Compound #6: MCPA



Original Peak Response = 11510995

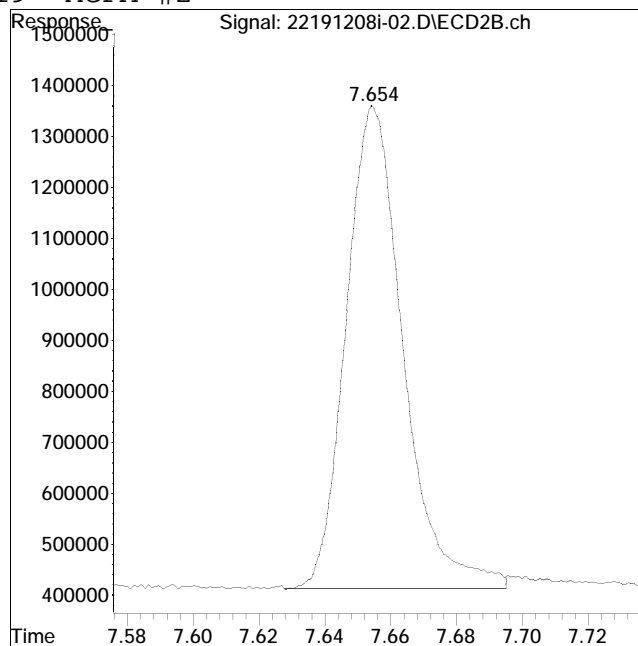
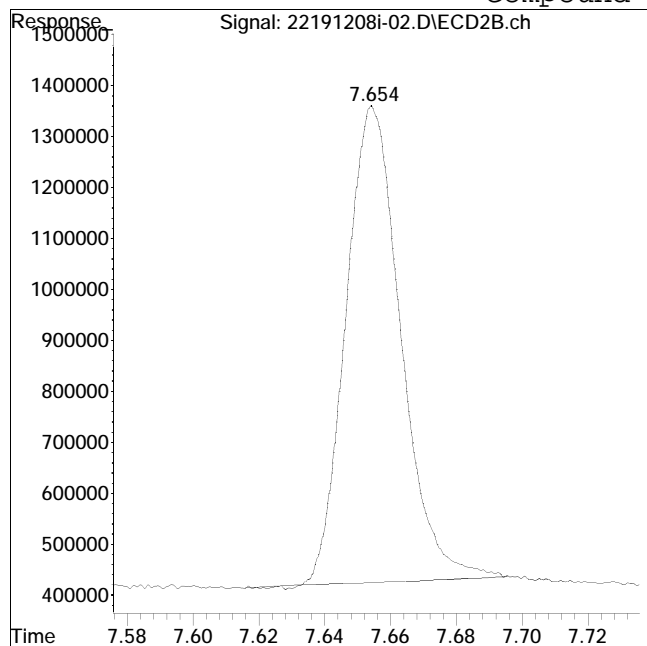
Manual Peak Response = 12066477 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-02.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 6:48 pm Instrument : Pest22
Sample : iL1herb9499,42e,, Quant Date : 12/9/2019 11:07 am

Compound #19: MCPA #2



Original Peak Response = 10822349

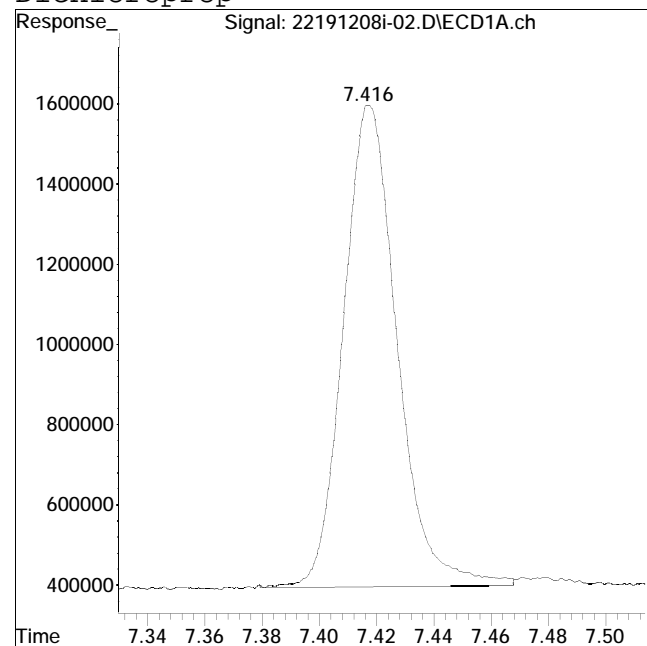
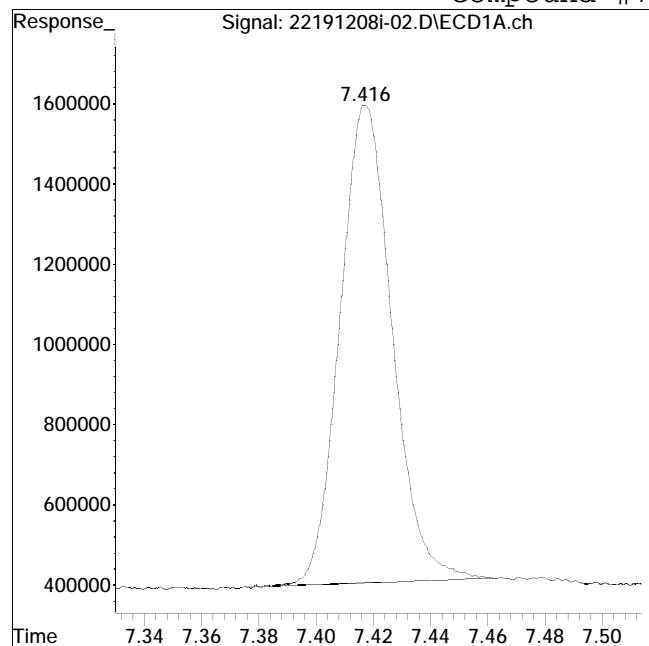
Manual Peak Response = 11432679 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-02.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 6:48 pm Instrument : Pest22
Sample : iL1herb9499,42e,, Quant Date : 12/9/2019 11:07 am

Compound #7: Dichloroprop



Original Peak Response = 15067815

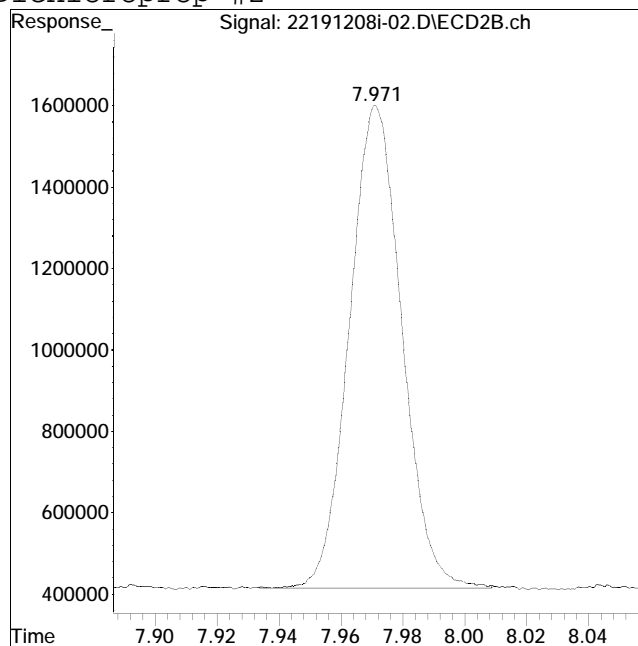
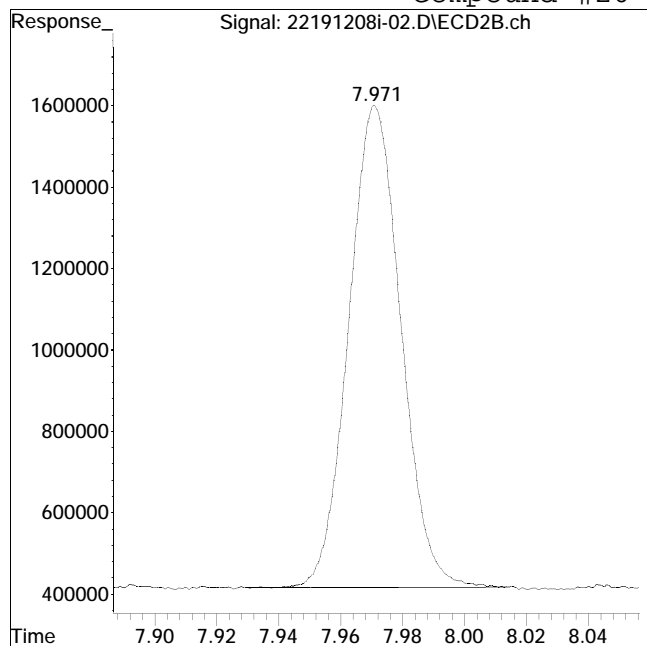
Manual Peak Response = 15678132 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-02.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 6:48 pm Instrument : Pest22
Sample : iL1herb9499,42e,, Quant Date : 12/9/2019 11:07 am

Compound #20: Dichloroprop #2



Original Peak Response = 13829789

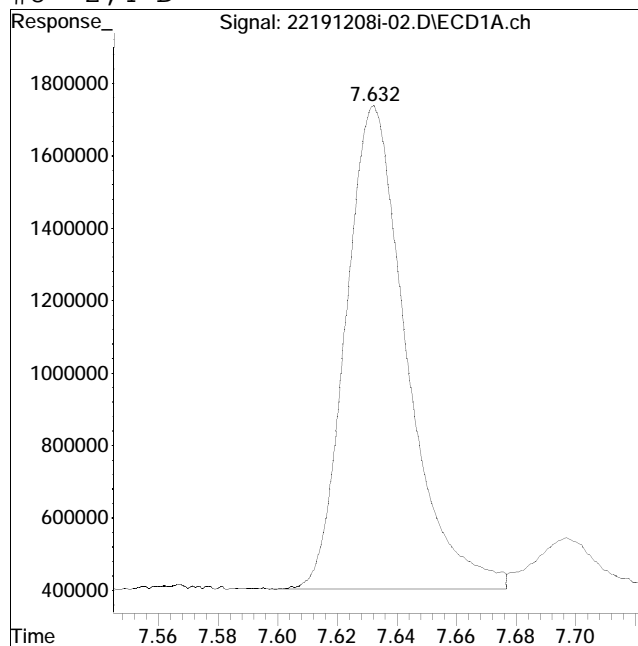
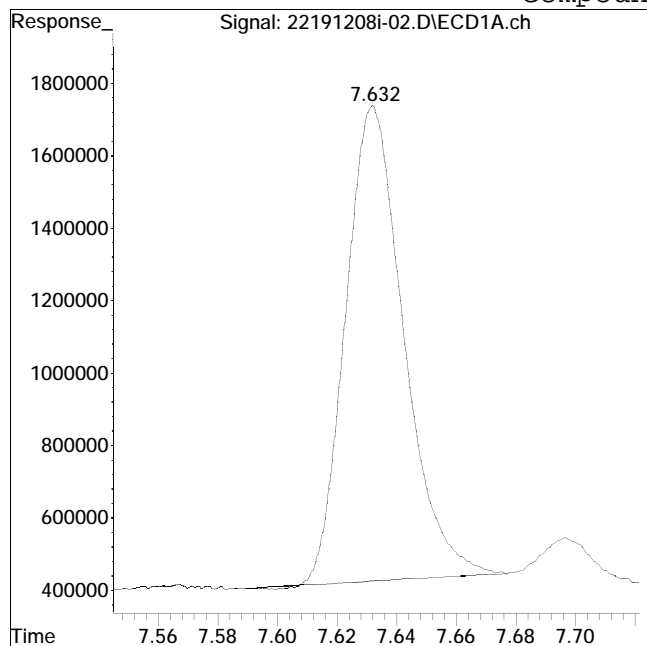
Manual Peak Response = 13971507 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-02.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 6:48 pm Instrument : Pest22
Sample : iL1herb9499,42e,, Quant Date : 12/9/2019 11:07 am

Compound #8: 2,4-D



Original Peak Response = 17726647

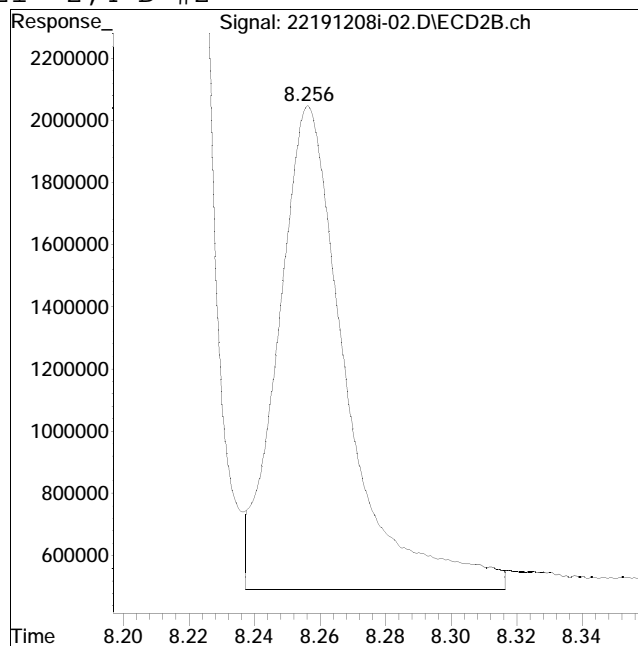
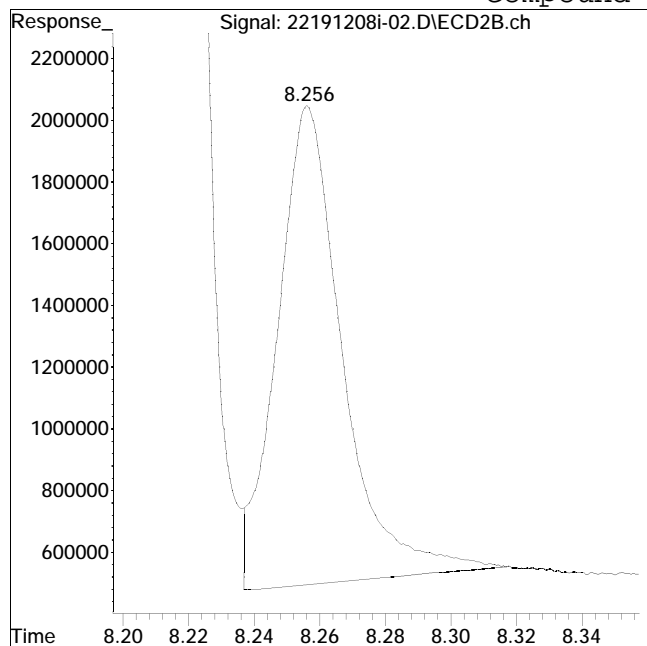
Manual Peak Response = 18916870 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-02.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 6:48 pm Instrument : Pest22
Sample : iL1herb9499,42e,, Quant Date : 12/9/2019 11:07 am

Compound #21: 2,4-D #2



Original Peak Response = 21532997

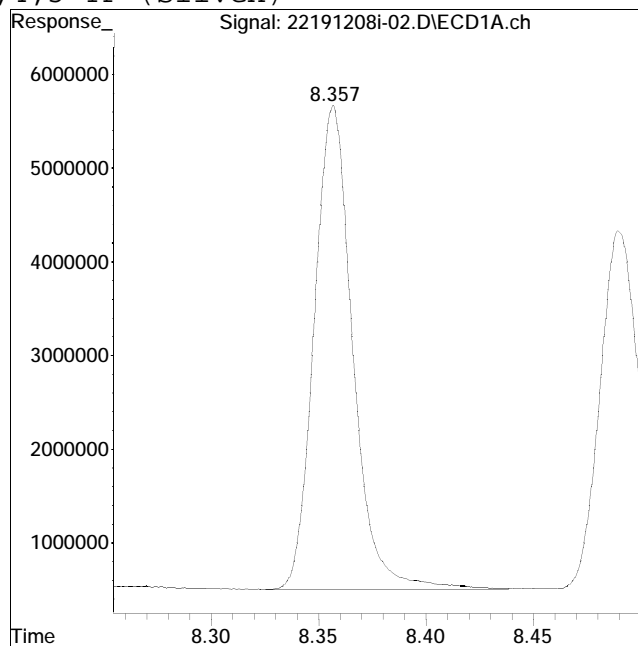
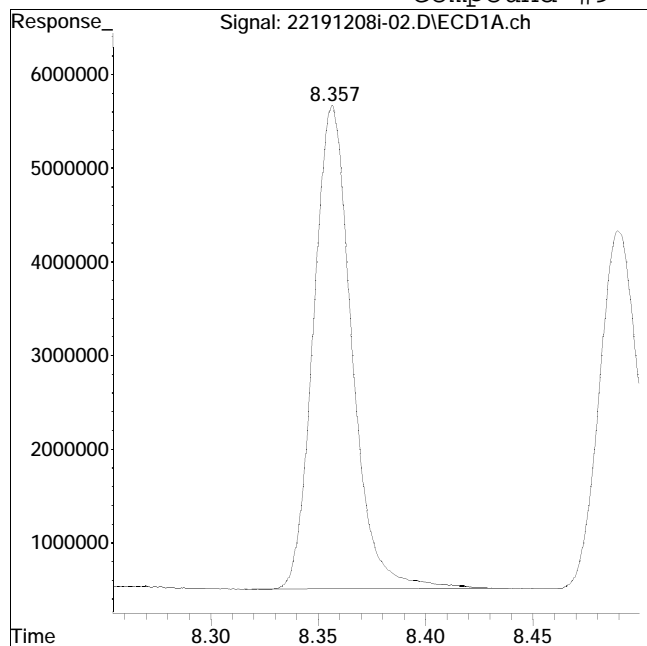
Manual Peak Response = 22604879 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-02.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 6:48 pm Instrument : Pest22
Sample : iL1herb9499,42e,, Quant Date : 12/9/2019 11:07 am

Compound #9: 2,4,5-TP (Silvex)



Original Peak Response = 63887113

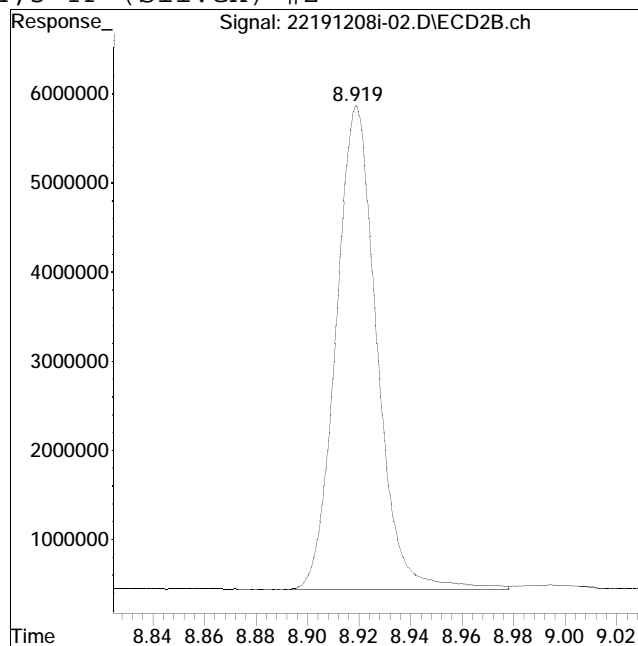
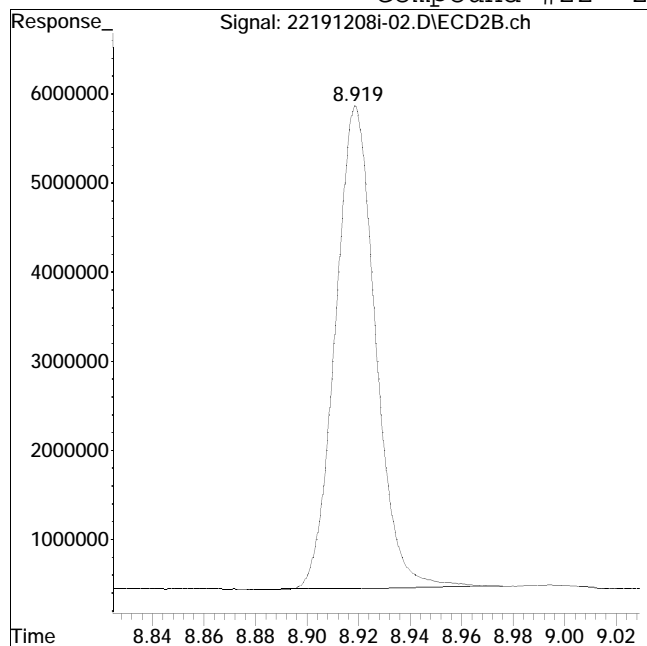
Manual Peak Response = 64802805 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-02.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 6:48 pm Instrument : Pest22
Sample : iL1herb9499,42e,, Quant Date : 12/9/2019 11:07 am

Compound #22: 2,4,5-TP (Silvex) #2



Original Peak Response = 58545931

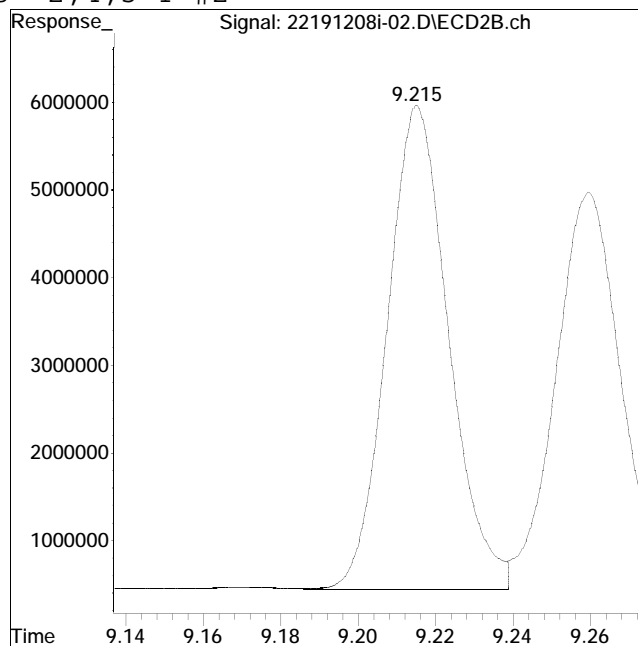
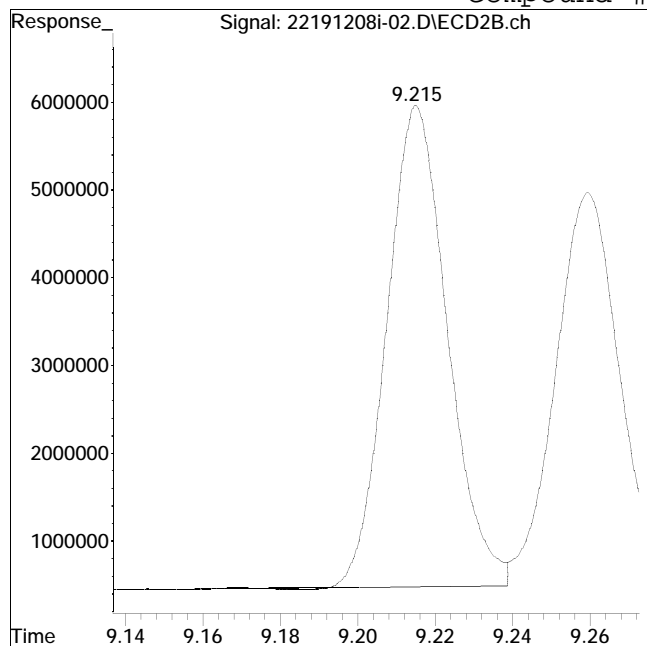
Manual Peak Response = 59873978 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-02.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 6:48 pm Instrument : Pest22
Sample : iL1herb9499,42e,, Quant Date : 12/9/2019 11:07 am

Compound #23: 2,4,5-T #2



Original Peak Response = 59362237

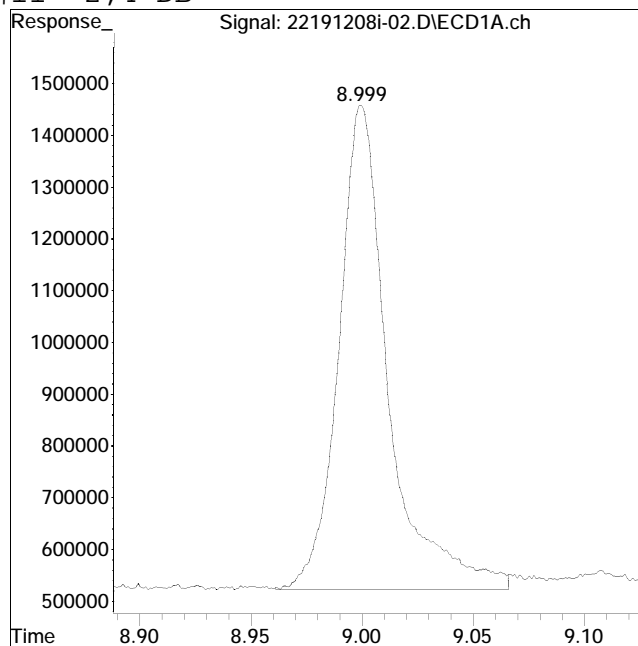
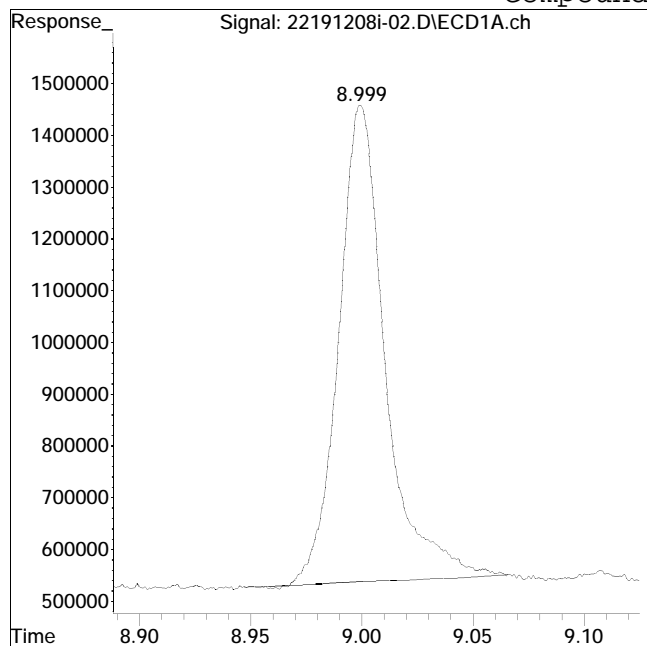
Manual Peak Response = 61032555 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-02.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 6:48 pm Instrument : Pest22
Sample : iL1herb9499,42e,, Quant Date : 12/9/2019 11:07 am

Compound #11: 2,4-DB



Original Peak Response = 13443340

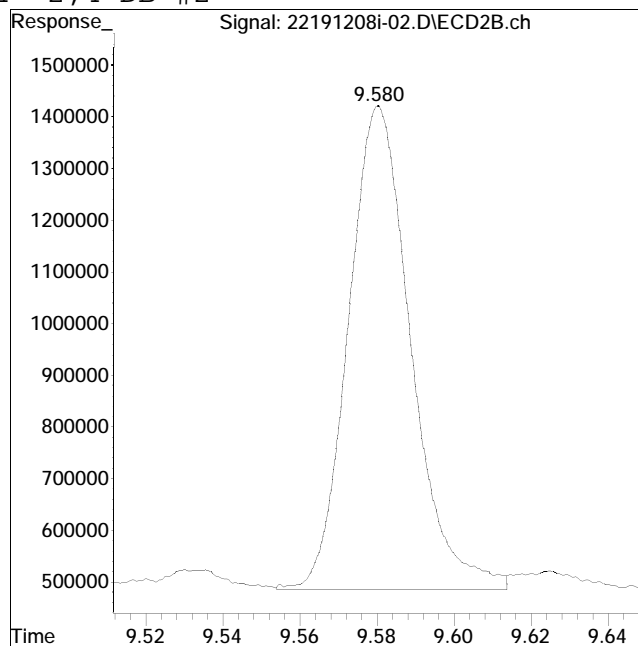
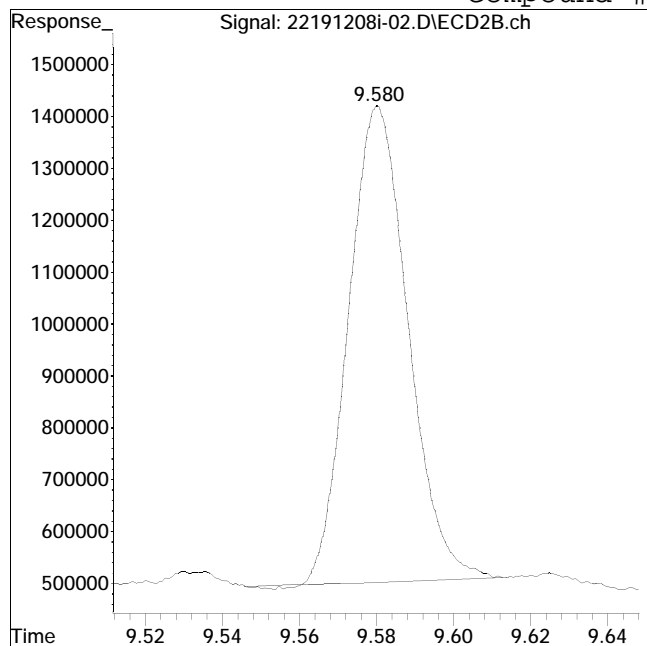
Manual Peak Response = 14478349 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-02.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 6:48 pm Instrument : Pest22
Sample : iL1herb9499,42e,, Quant Date : 12/9/2019 11:07 am

Compound #24: 2,4-DB #2



Original Peak Response = 9827496

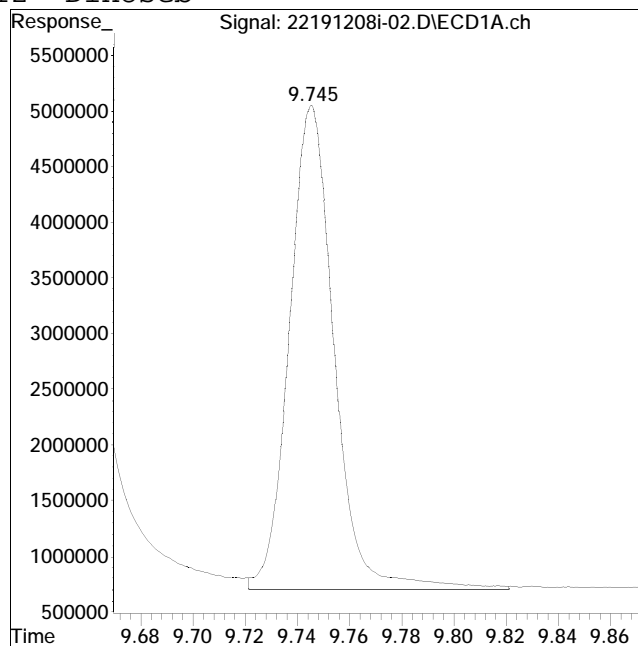
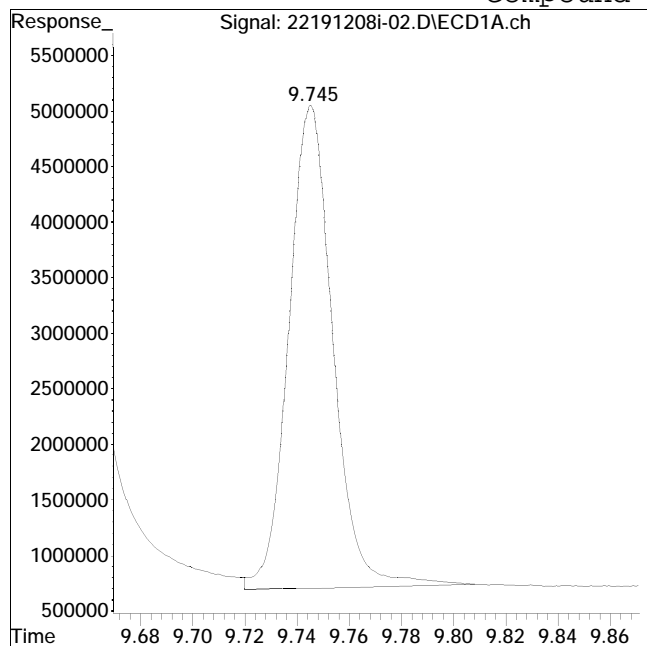
Manual Peak Response = 10538188 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-02.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 6:48 pm Instrument : Pest22
Sample : iL1herb9499,42e,, Quant Date : 12/9/2019 11:07 am

Compound #12: Dinoseb



Original Peak Response = 51150265

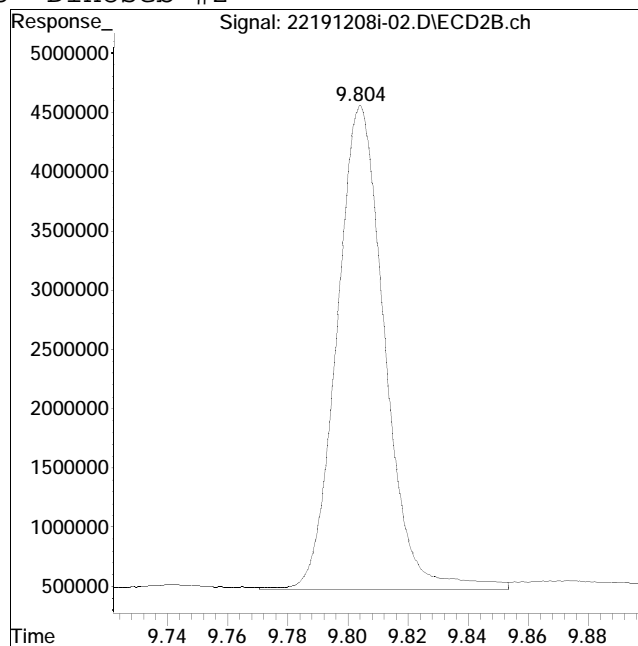
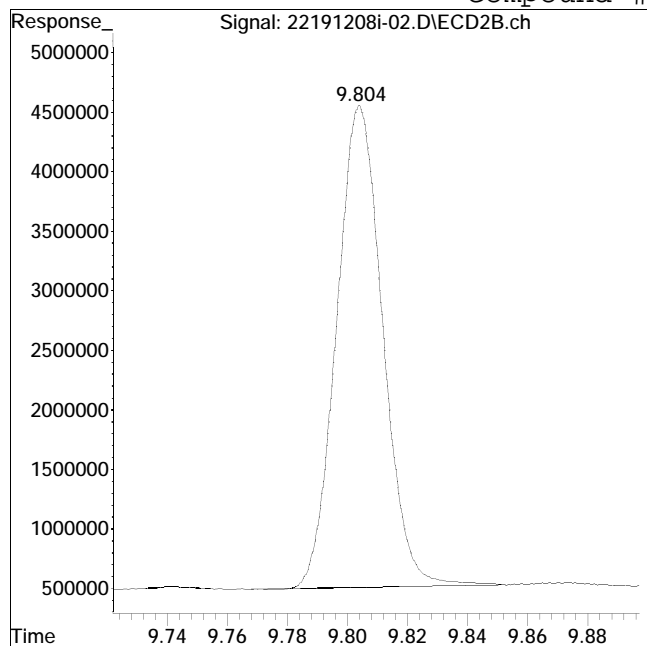
Manual Peak Response = 52037358 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-02.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 6:48 pm Instrument : Pest22
Sample : iL1herb9499,42e,, Quant Date : 12/9/2019 11:07 am

Compound #25: Dinoseb #2



Original Peak Response = 43072413

Manual Peak Response = 45288080 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest22\data\2019\191208ical\
 Data File : 22191208i-03.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Dec 2019 07:07 pm
 Operator : pest22:dgm
 Sample : iL2herb9500,42e,,
 Misc : wgl318475,ical (Sig #1); ical (Sig #2)
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 09 12:02:48 2019
 Quant Method : I:\Pest22\data\2019\191208ical\Herb22_19_12_08_mgL_ICAL.m
 Quant Title : herb
 QLast Update : Mon Dec 09 11:02:08 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Internal Standards							
1) i	4,4'-DFOB	8.079	8.208	506.4E6	448.4E6	0.250M4	0.250M4
System Monitoring Compounds							
3) s	DCAA (surrog	6.537	7.135	34046205	33457519	0.112M4	0.104M4
Spiked Amount		0.500	Range	30 - 150	Recovery	=	22.40%# 20.80%#
Target Compounds							
2) t	Dalapon	2.084	2.168	33254690	32309203	0.106M4	0.102M4
4) t	Dicamba	6.712	7.312	98123459	93586526	0.100M4	0.096M4
5) t	MCPPP	6.918	7.426	11948244	11393808	9.669M4	9.310M4
6) t	MCPA	7.064	7.654	23434474	23049998	11.735M4	11.211M4
7) t	Dichloroprop	7.416	7.971	30889599	28298776	0.110M4	0.105M4
8) t	2,4-D	7.630	8.256	38281450	45779610	0.109M4	0.121M4
9) t	2,4,5-TP (Si	8.355	8.918	136.0E6	124.9E6	0.104M4	0.099M4
10) t	2,4,5-T	8.583	9.214	142.6E6	127.2E6	0.104M4	0.098m
11) t	2,4-DB	8.998	9.579	29666525	21075538	0.120	0.105M4
12) t	Dinoseb	9.745	9.803	102.5E6	88147539	0.110M4	0.103M4

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest22\data\2019\191208ical\
 Data File : 22191208i-03.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Dec 2019 07:07 pm
 Operator : pest22:dgm
 Sample : iL2herb9500,42e,,
 Misc : wgl318475,ical (Sig #1); ical (Sig #2)
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 09 12:02:48 2019
 Quant Method : I:\Pest22\data\2019\191208ical\Herb22_19_12_08_mgL_ICAL.m
 Quant Title : herb
 QLast Update : Mon Dec 09 11:02:08 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

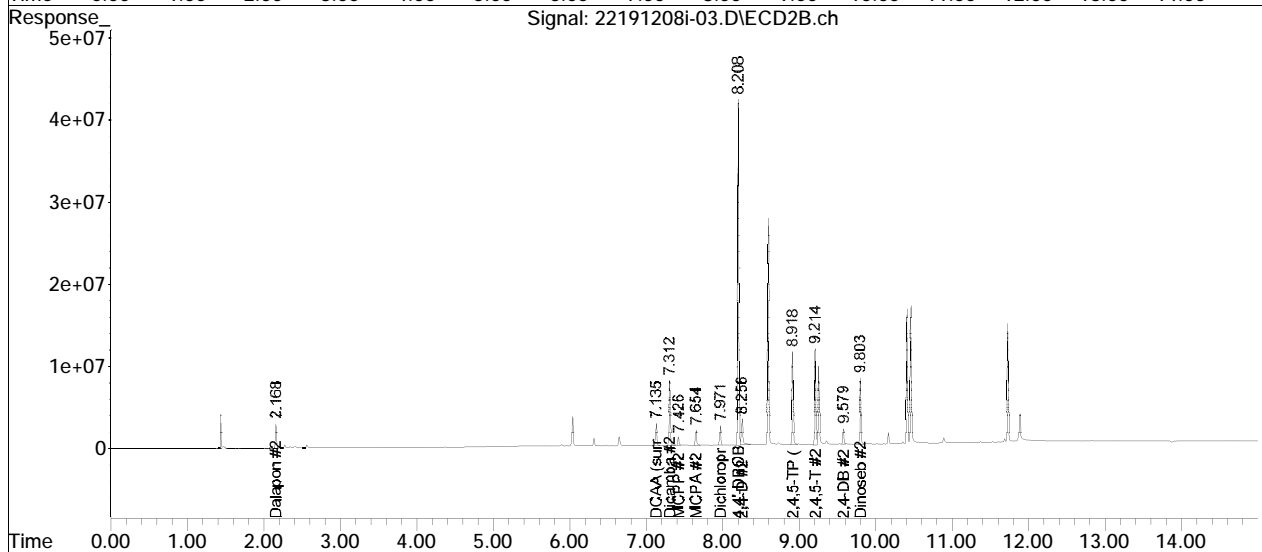
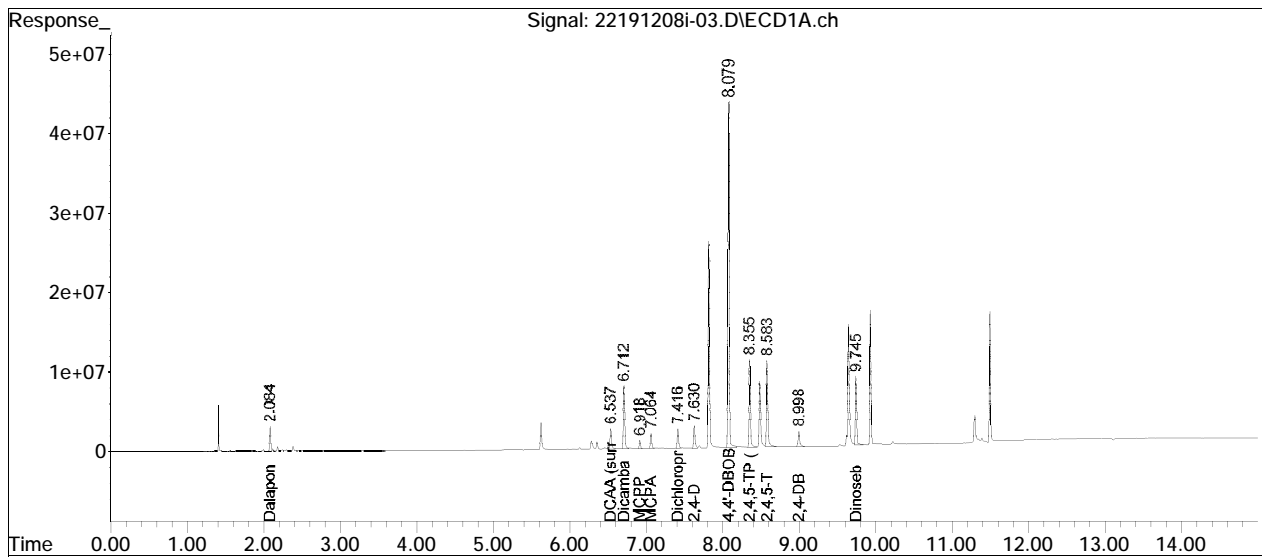
(#)=Recovery Exceeds Compound Acceptance Limits.						
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.						

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest22\data\2019\191208ical\
Data File : 22191208i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Dec 2019 07:07 pm
Operator : pest22:dgm
Sample : iL2herb9500,42e,,
Misc : wg1318475,ical (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 09 12:02:48 2019
Quant Method : I:\Pest22\data\2019\191208ical\Herb22_19_12_08_mgL_ICAL.m
Quant Title : herb
QLast Update : Mon Dec 09 11:02:08 2019
Response via : Initial Calibration
Integrator: ChemStation

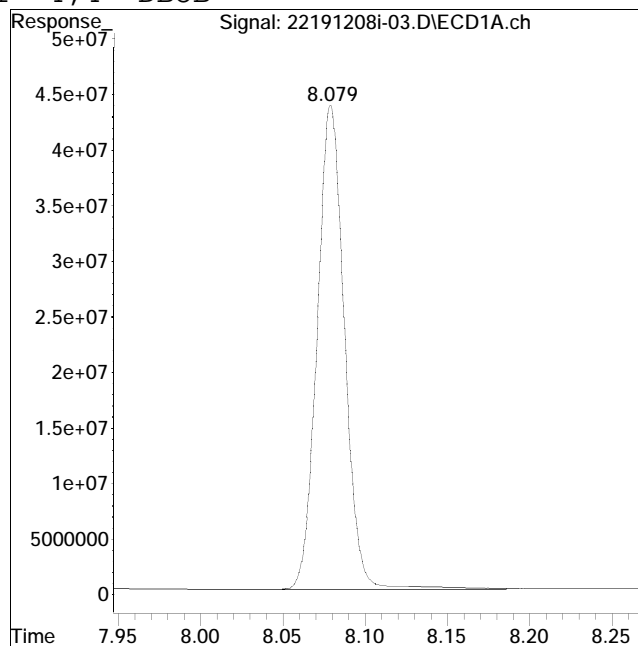
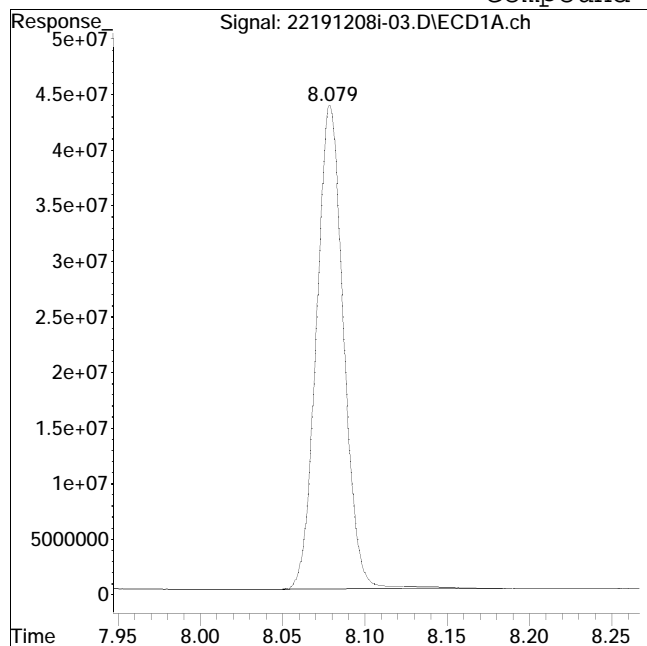
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-03.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:07 pm Instrument : Pest22
Sample : iL2herb9500,42e,, Quant Date : 12/9/2019 11:02 am

Compound #1: 4,4'-DBOB



Original Peak Response = 499150110

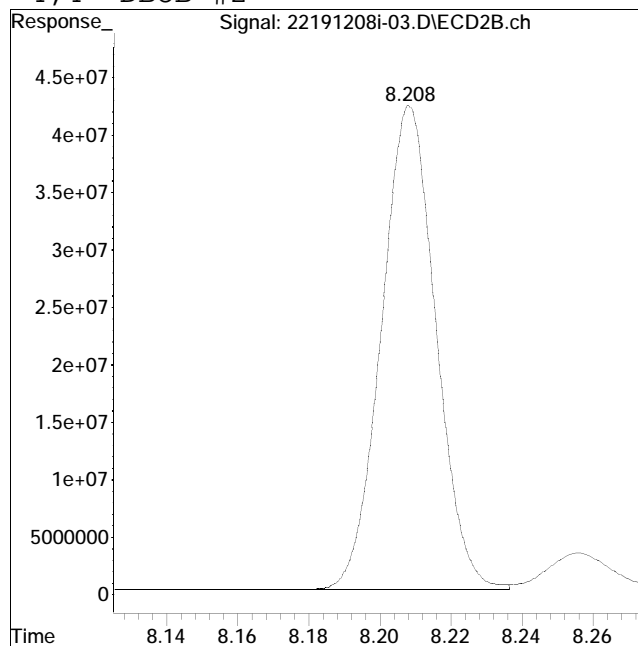
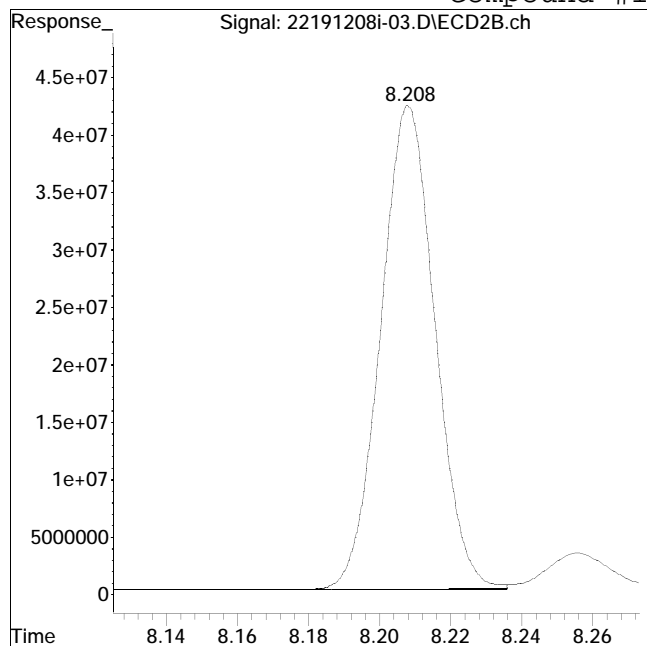
Manual Peak Response = 506392639 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-03.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:07 pm Instrument : Pest22
Sample : iL2herb9500,42e,, Quant Date : 12/9/2019 11:02 am

Compound #14: 4,4'-DBOB #2



Original Peak Response = 446599720

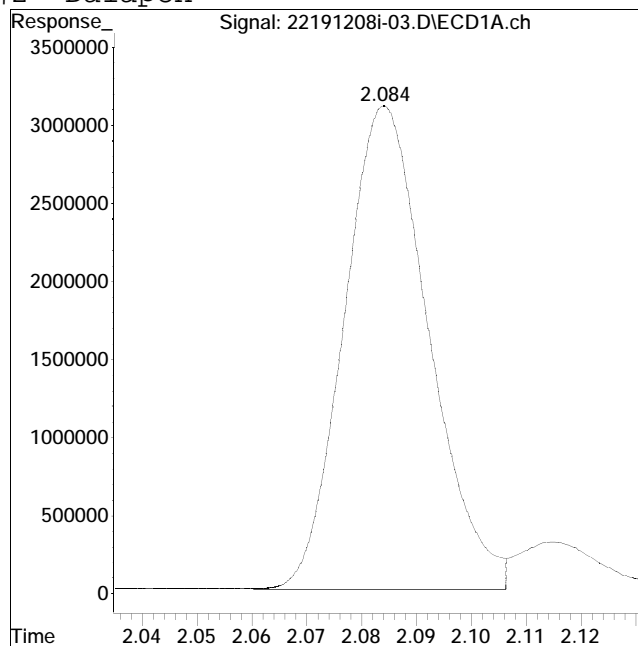
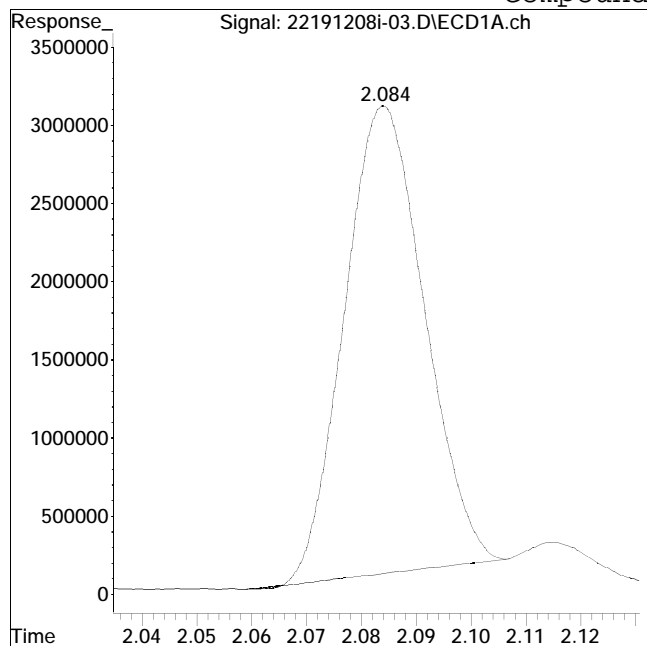
Manual Peak Response = 448384686 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-03.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:07 pm Instrument : Pest22
Sample : iL2herb9500,42e,, Quant Date : 12/9/2019 11:02 am

Compound #2: Dalapon



Original Peak Response = 30284690

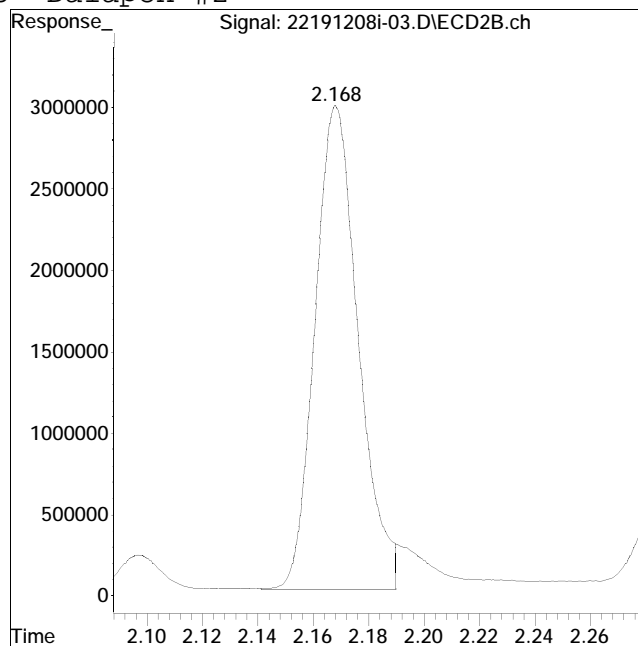
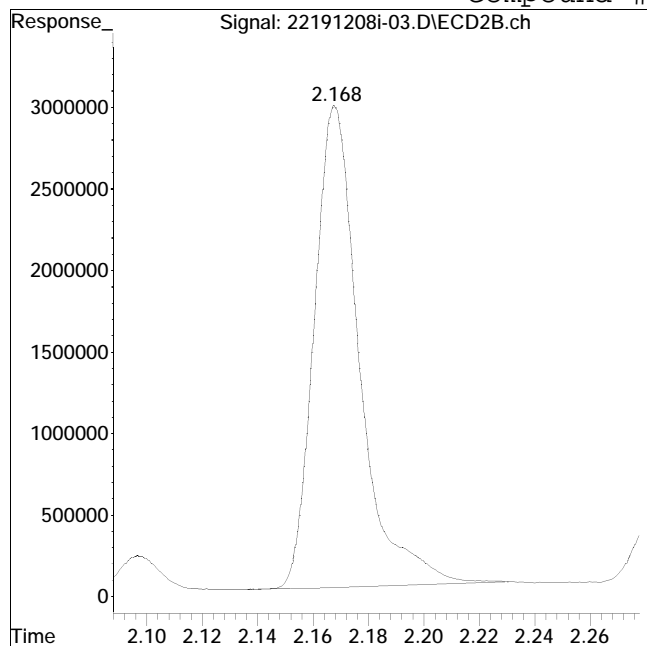
Manual Peak Response = 33254690 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-03.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:07 pm Instrument : Pest22
Sample : iL2herb9500,42e,, Quant Date : 12/9/2019 11:02 am

Compound #15: Dalapon #2



Original Peak Response = 33441775

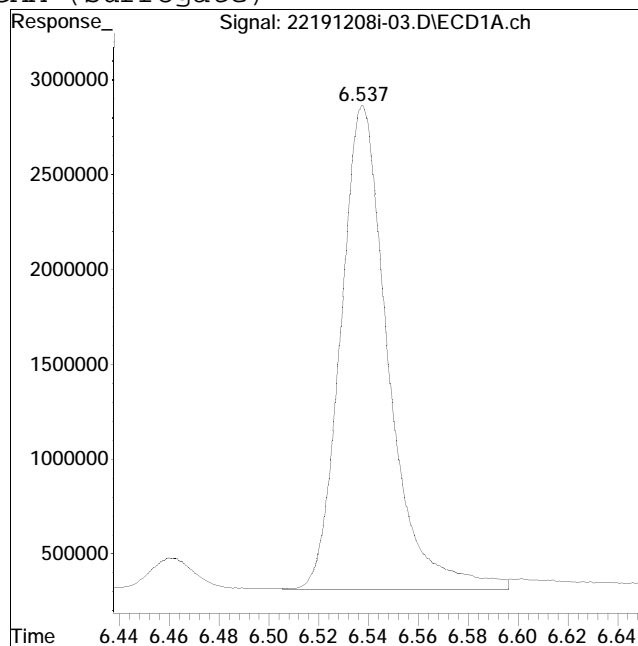
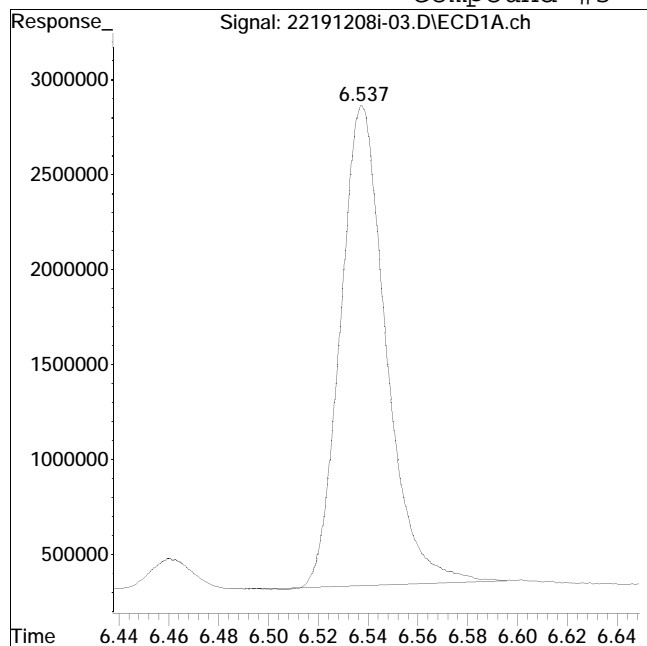
Manual Peak Response = 32309203 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-03.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:07 pm Instrument : Pest22
Sample : iL2herb9500,42e,, Quant Date : 12/9/2019 11:02 am

Compound #3: DCAA (surrogate)



Original Peak Response = 32067395

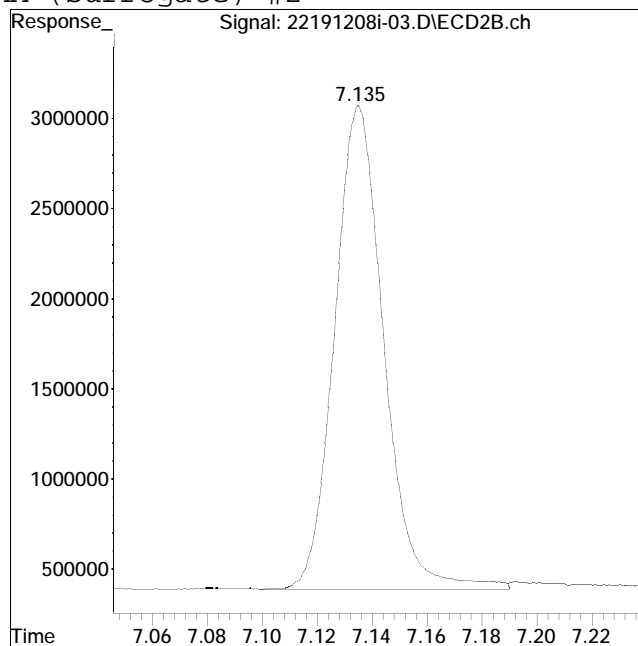
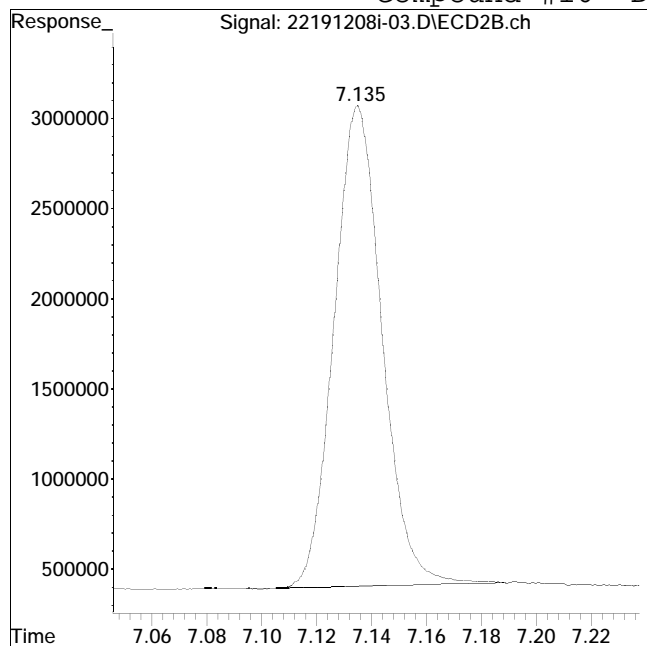
Manual Peak Response = 34046205 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-03.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:07 pm Instrument : Pest22
Sample : iL2herb9500,42e,, Quant Date : 12/9/2019 11:02 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 32296122

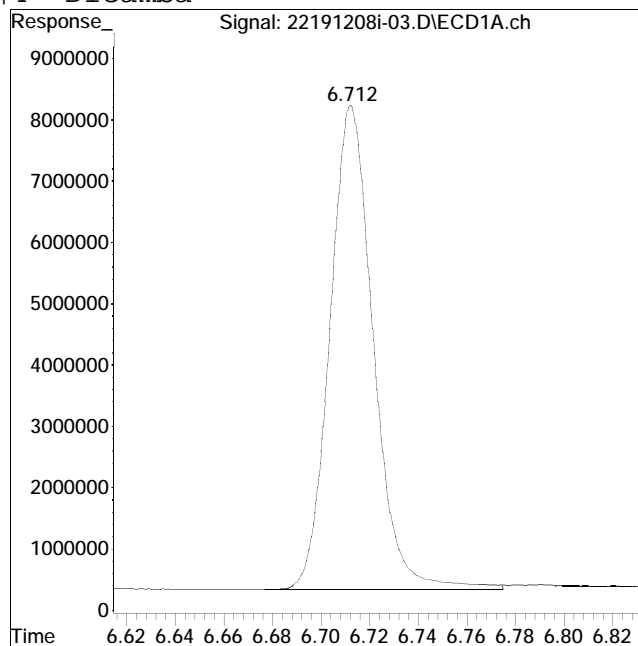
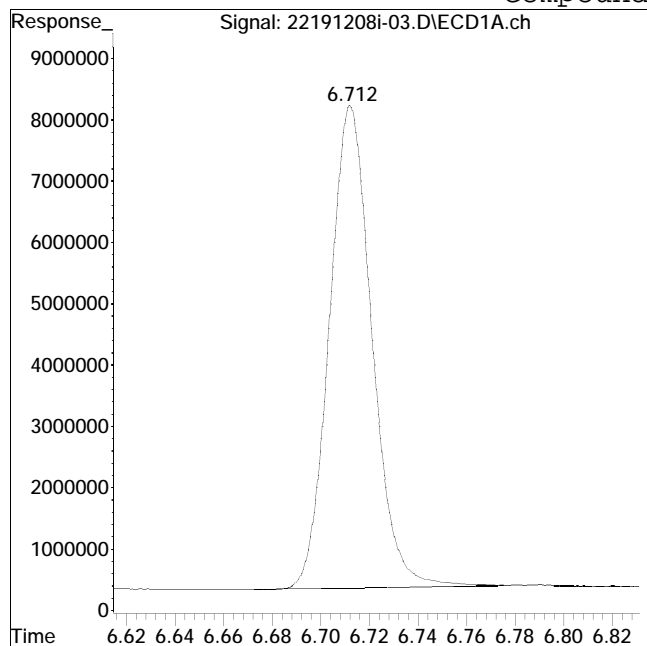
Manual Peak Response = 33457519 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-03.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:07 pm Instrument : Pest22
Sample : iL2herb9500,42e,, Quant Date : 12/9/2019 11:02 am

Compound #4: Dicamba



Original Peak Response = 95736270

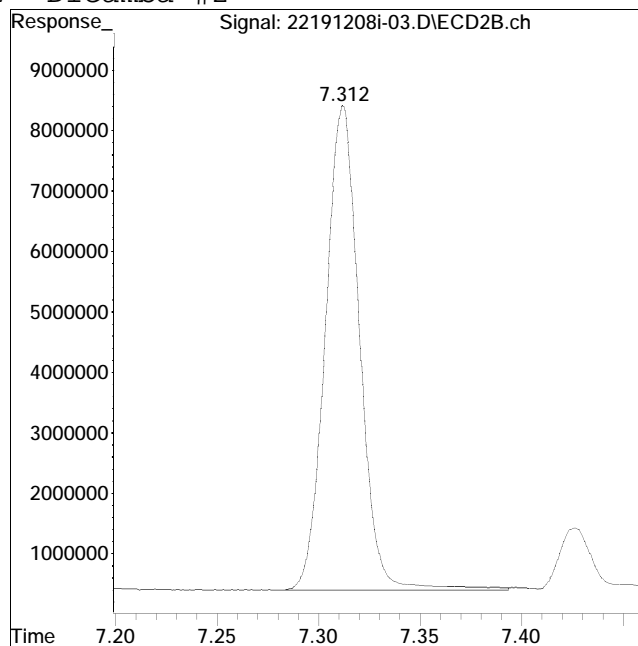
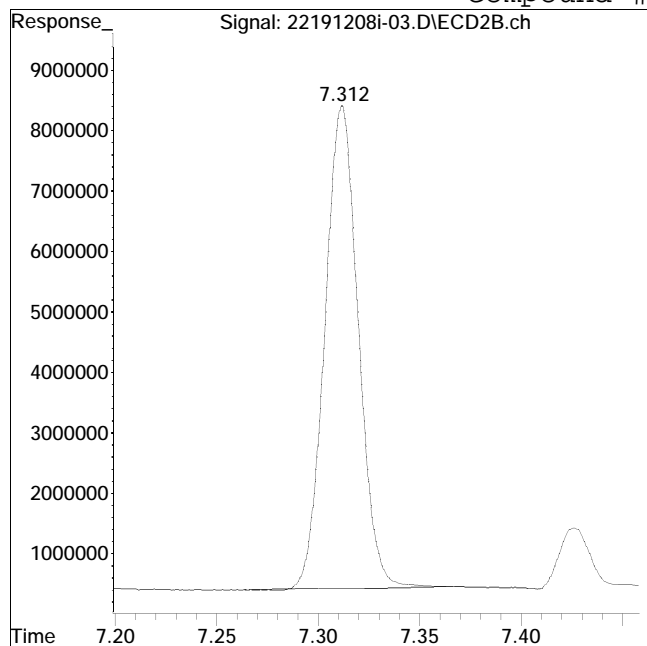
Manual Peak Response = 98123459 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-03.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:07 pm Instrument : Pest22
Sample : iL2herb9500,42e,, Quant Date : 12/9/2019 11:02 am

Compound #17: Dicamba #2



Original Peak Response = 91336080

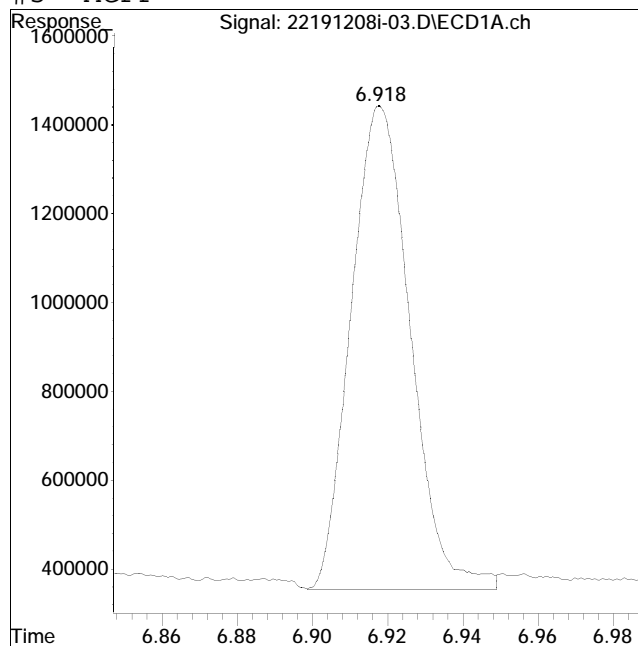
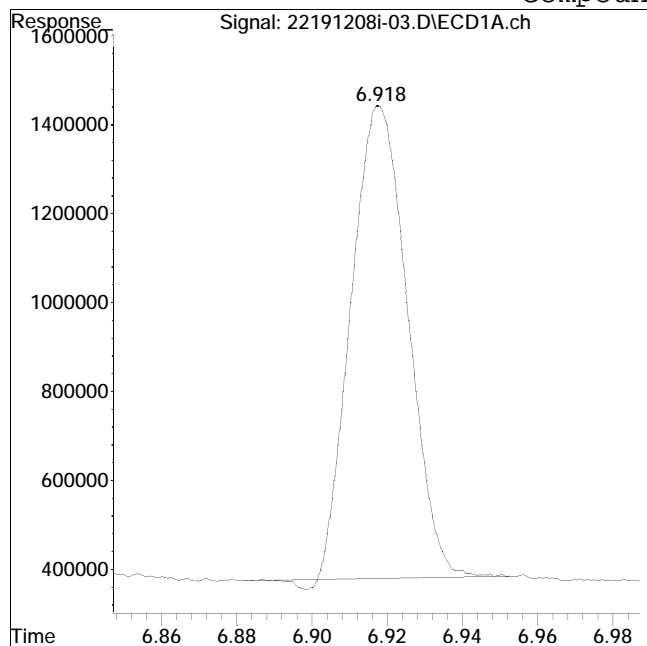
Manual Peak Response = 93586526 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-03.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:07 pm Instrument : Pest22
Sample : iL2herb9500,42e,, Quant Date : 12/9/2019 11:02 am

Compound #5: MCP



Original Peak Response = 11002448

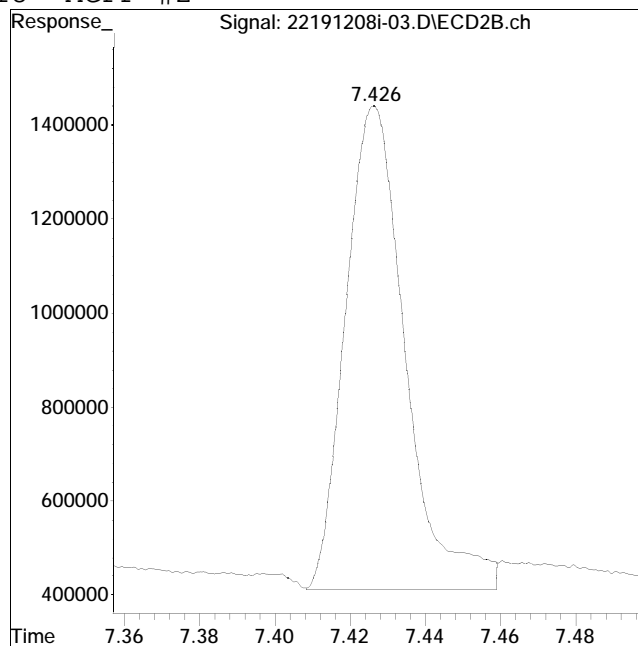
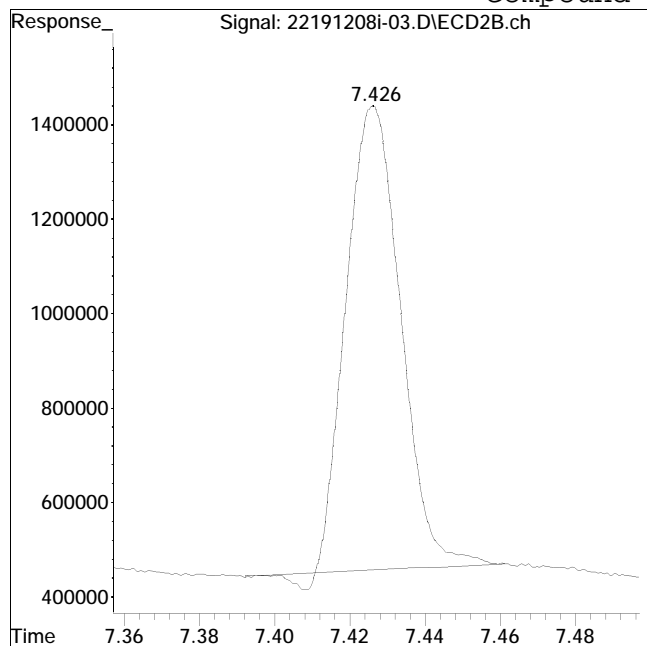
Manual Peak Response = 11948244 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-03.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:07 pm Instrument : Pest22
Sample : iL2herb9500,42e,, Quant Date : 12/9/2019 11:02 am

Compound #18: MCPP #2



Original Peak Response = 9807896

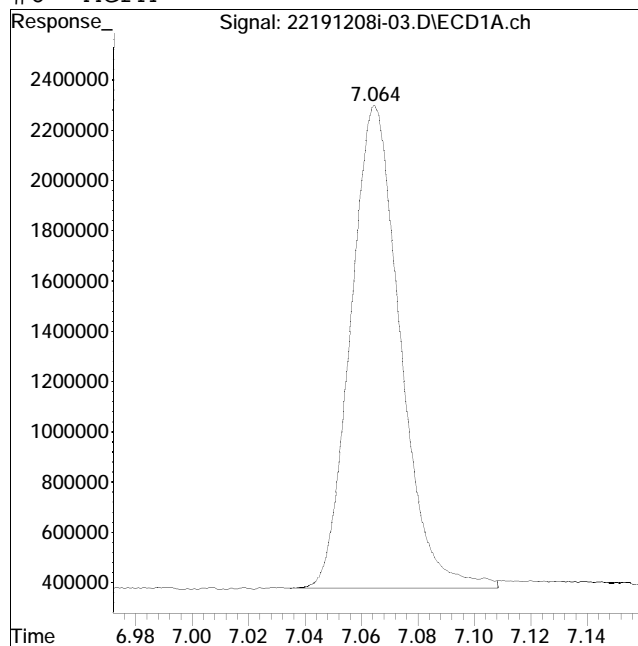
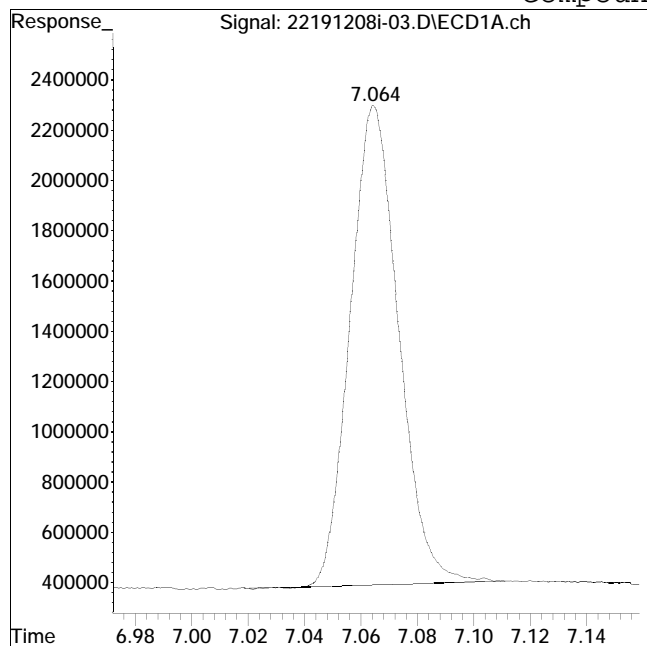
Manual Peak Response = 11393808 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-03.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:07 pm Instrument : Pest22
Sample : iL2herb9500,42e,, Quant Date : 12/9/2019 11:02 am

Compound #6: MCPA



Original Peak Response = 22687933

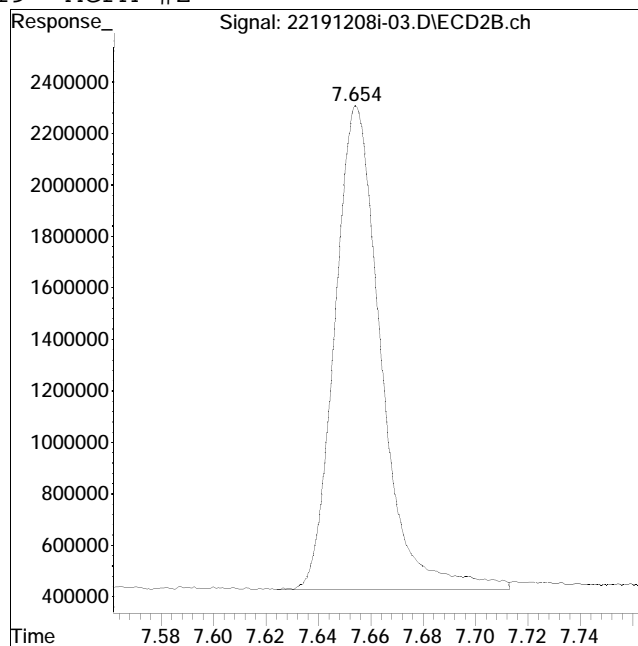
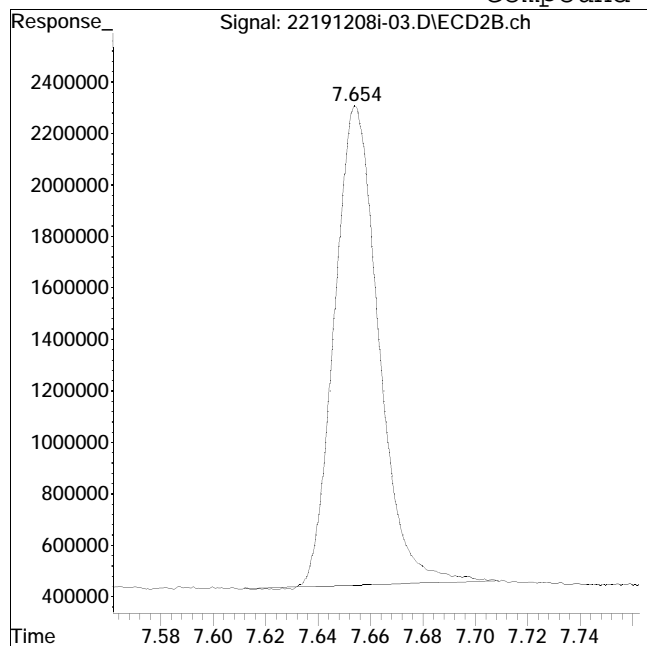
Manual Peak Response = 23434474 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-03.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:07 pm Instrument : Pest22
Sample : iL2herb9500,42e,, Quant Date : 12/9/2019 11:02 am

Compound #19: MCPA #2



Original Peak Response = 21831694

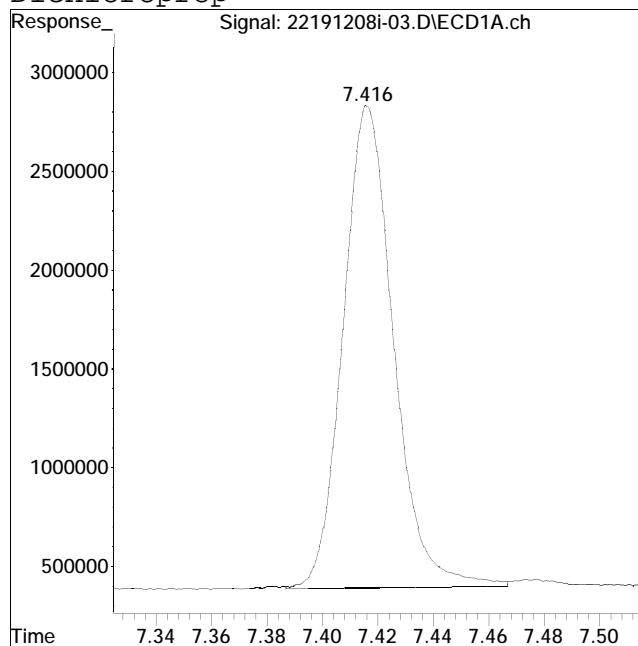
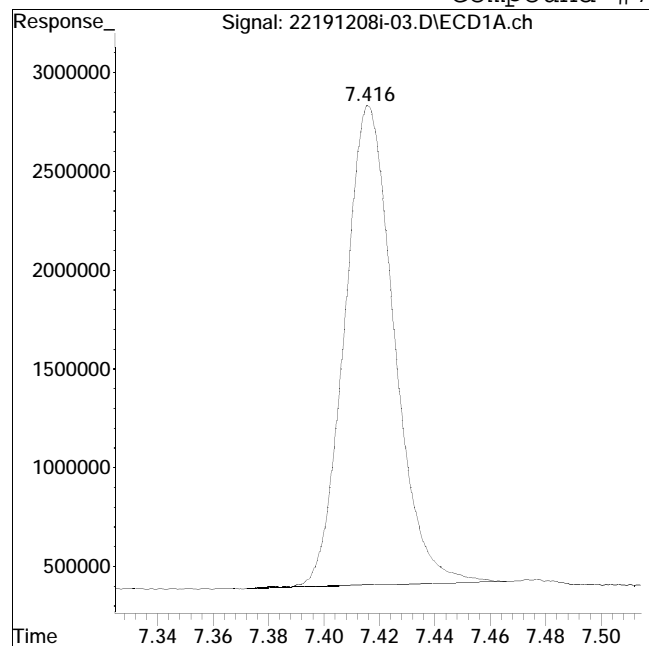
Manual Peak Response = 23049998 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-03.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:07 pm Instrument : Pest22
Sample : iL2herb9500,42e,, Quant Date : 12/9/2019 11:02 am

Compound #7: Dichloroprop



Original Peak Response = 30092657

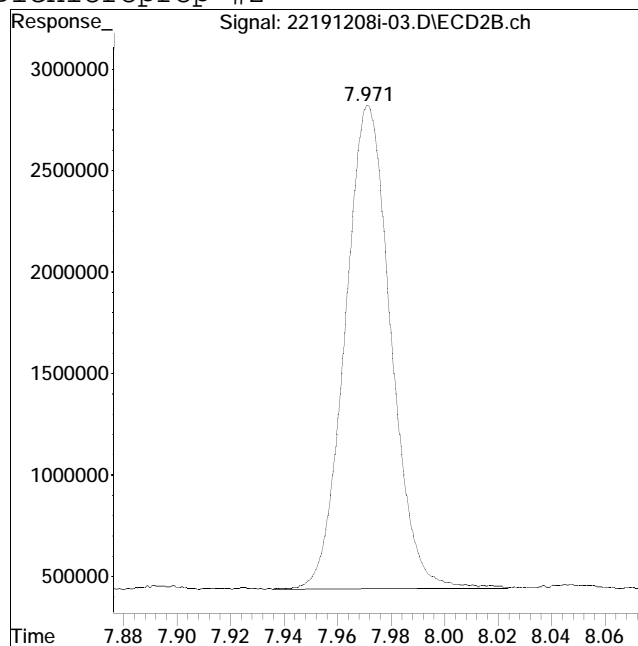
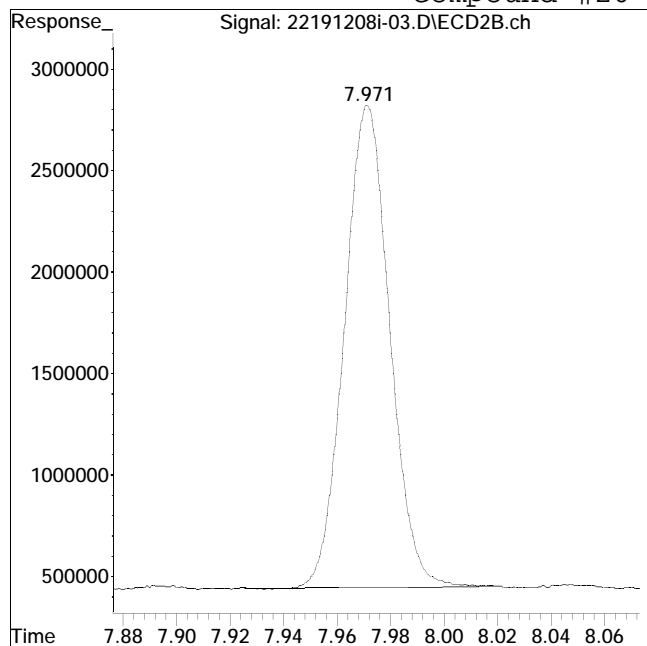
Manual Peak Response = 30889599 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-03.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:07 pm Instrument : Pest22
Sample : iL2herb9500,42e,, Quant Date : 12/9/2019 11:02 am

Compound #20: Dichloroprop #2



Original Peak Response = 27907796

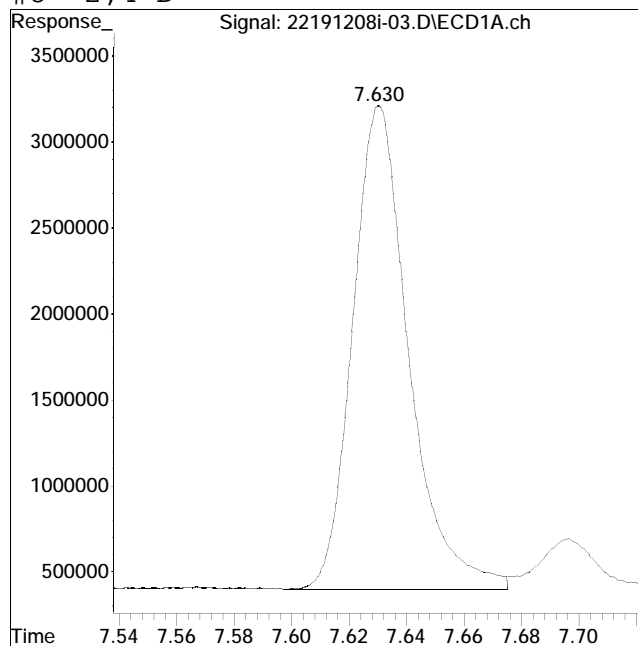
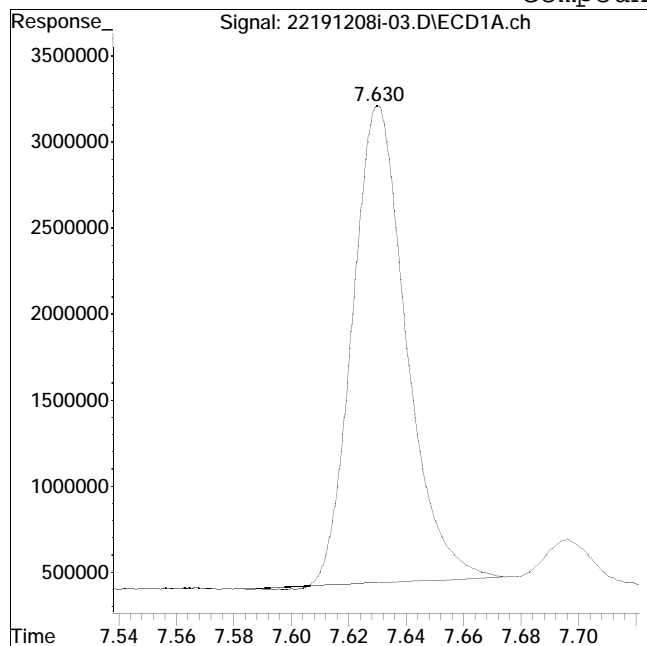
Manual Peak Response = 28298776 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-03.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:07 pm Instrument : Pest22
Sample : iL2herb9500,42e,, Quant Date : 12/9/2019 11:02 am

Compound #8: 2,4-D



Original Peak Response = 35976952

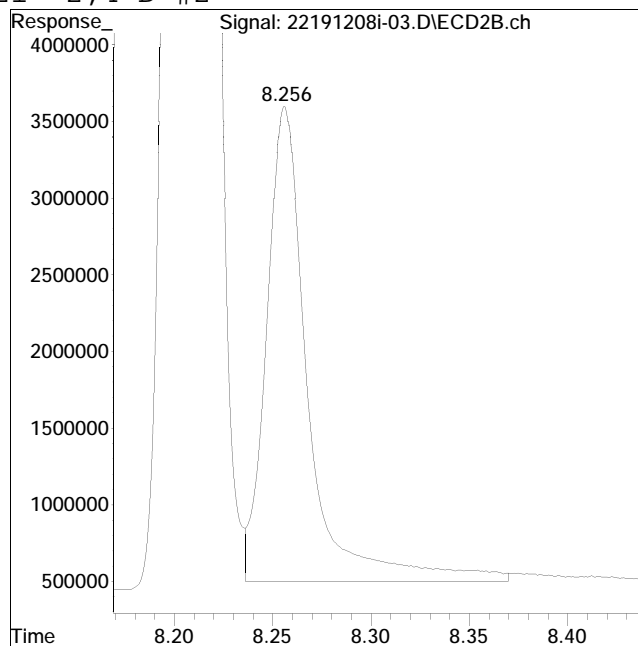
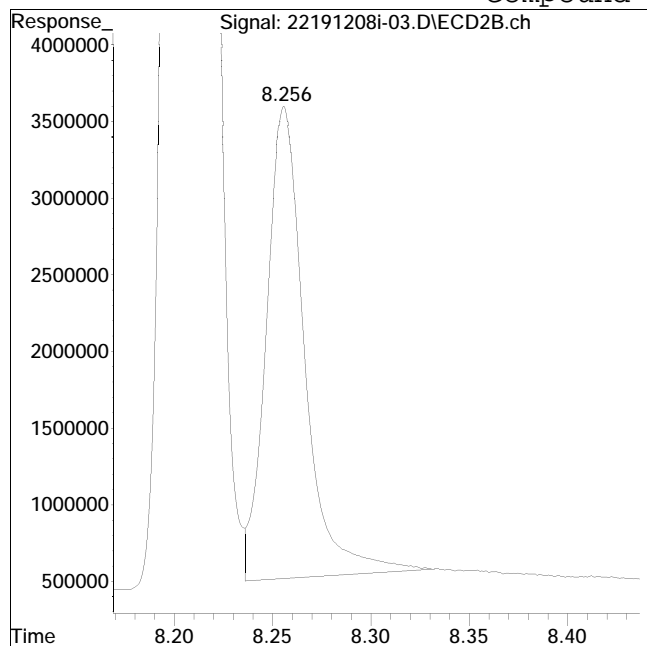
Manual Peak Response = 38281450 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-03.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:07 pm Instrument : Pest22
Sample : iL2herb9500,42e,, Quant Date : 12/9/2019 11:02 am

Compound #21: 2,4-D #2



Original Peak Response = 41914619

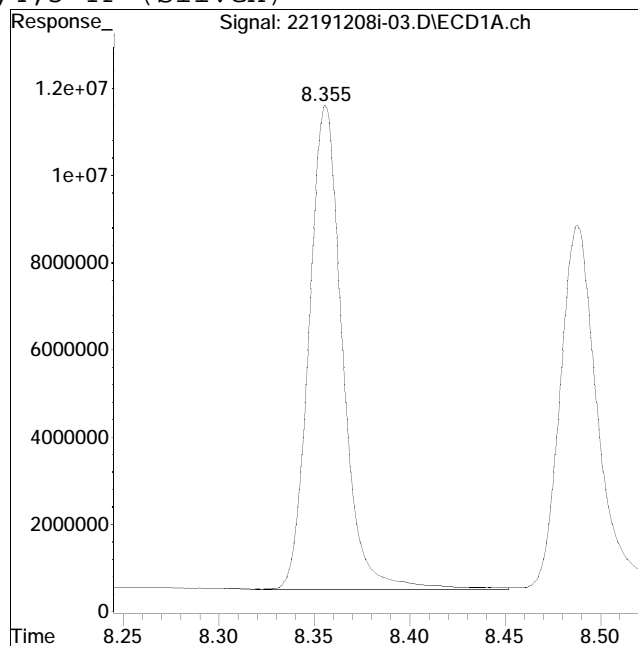
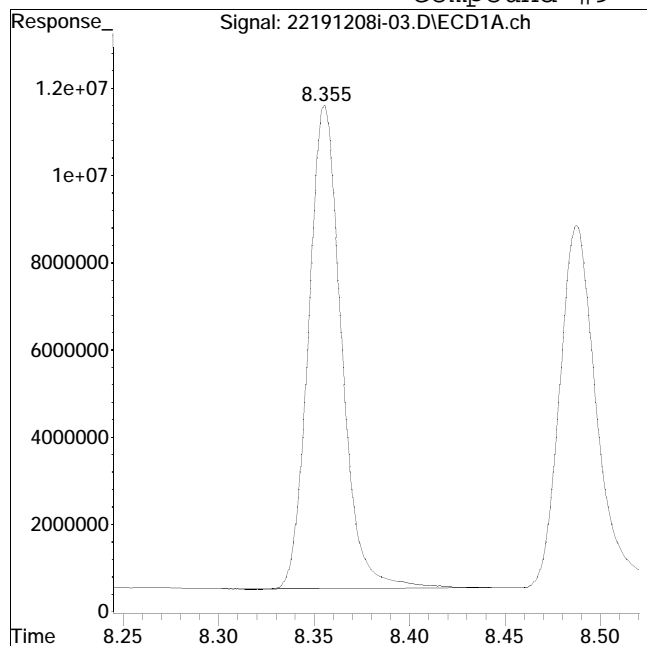
Manual Peak Response = 45779610 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-03.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:07 pm Instrument : Pest22
Sample : iL2herb9500,42e,, Quant Date : 12/9/2019 11:02 am

Compound #9: 2,4,5-TP (Silvex)



Original Peak Response = 133482039

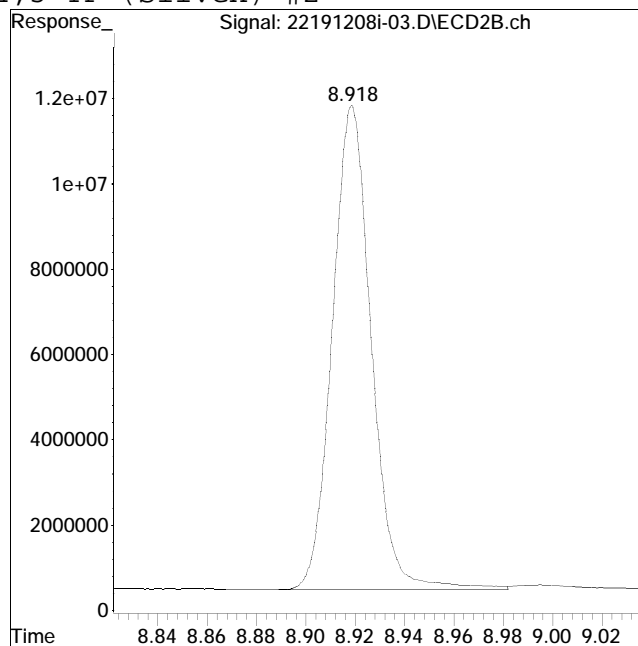
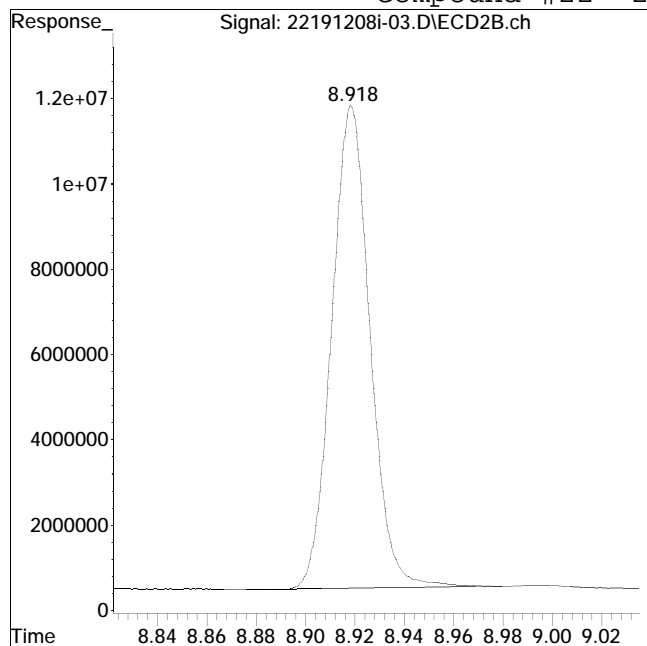
Manual Peak Response = 136047763 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-03.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:07 pm Instrument : Pest22
Sample : iL2herb9500,42e,, Quant Date : 12/9/2019 11:02 am

Compound #22: 2,4,5-TP (Silvex) #2



Original Peak Response = 122139280

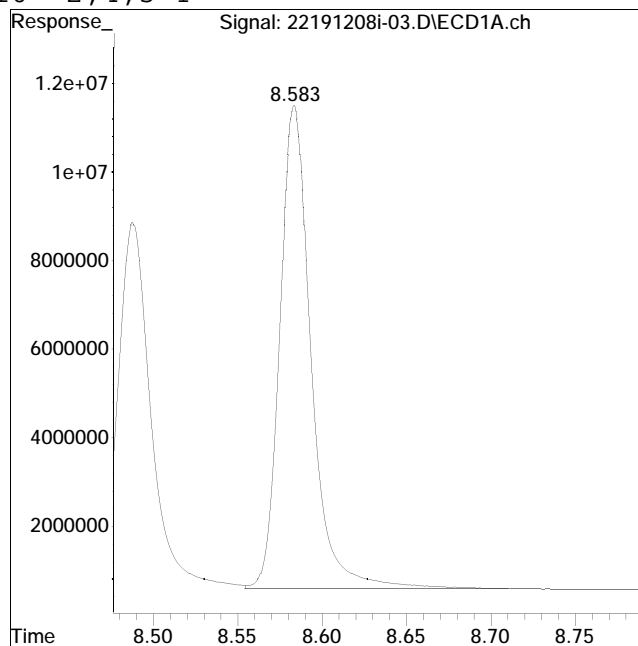
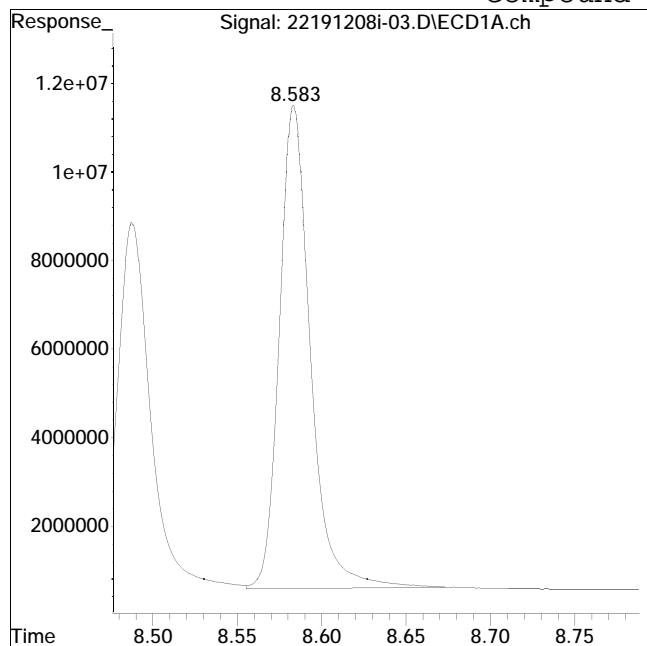
Manual Peak Response = 124938015 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-03.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:07 pm Instrument : Pest22
Sample : iL2herb9500,42e,, Quant Date : 12/9/2019 11:02 am

Compound #10: 2,4,5-T



Original Peak Response = 139636703

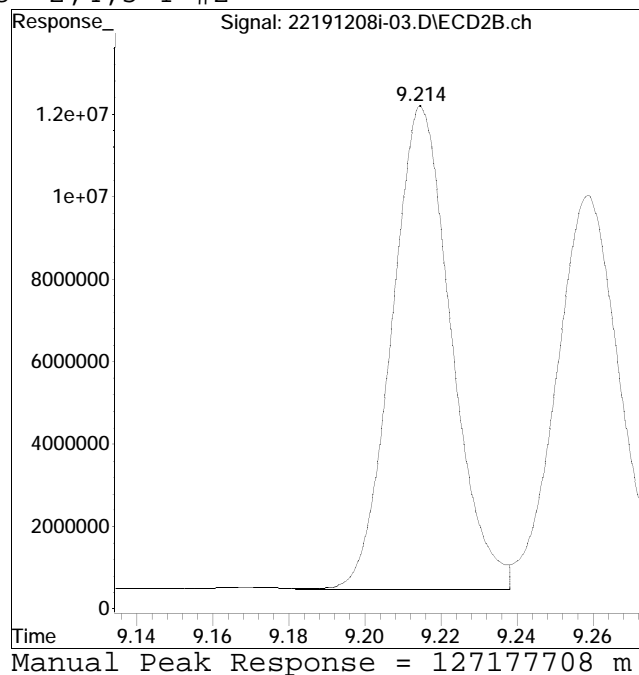
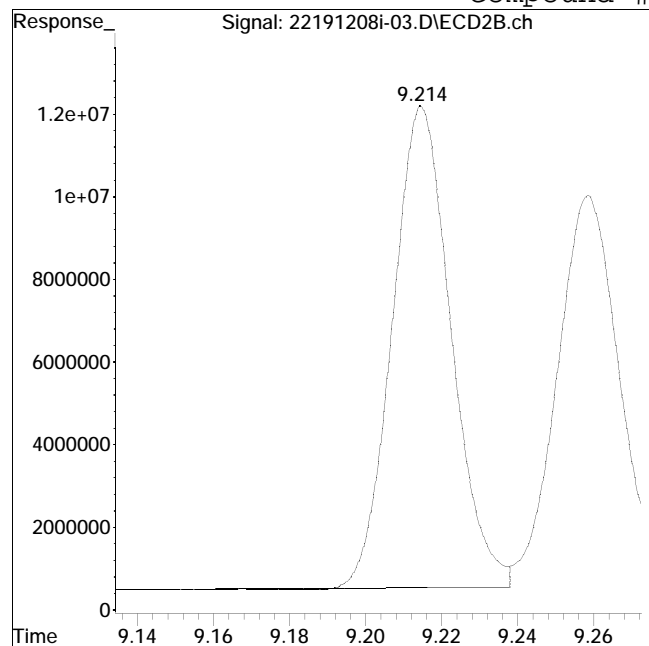
Manual Peak Response = 142607446 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-03.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:07 pm Instrument : Pest22
Sample : iL2herb9500,42e,, Quant Date : 12/9/2019 11:02 am

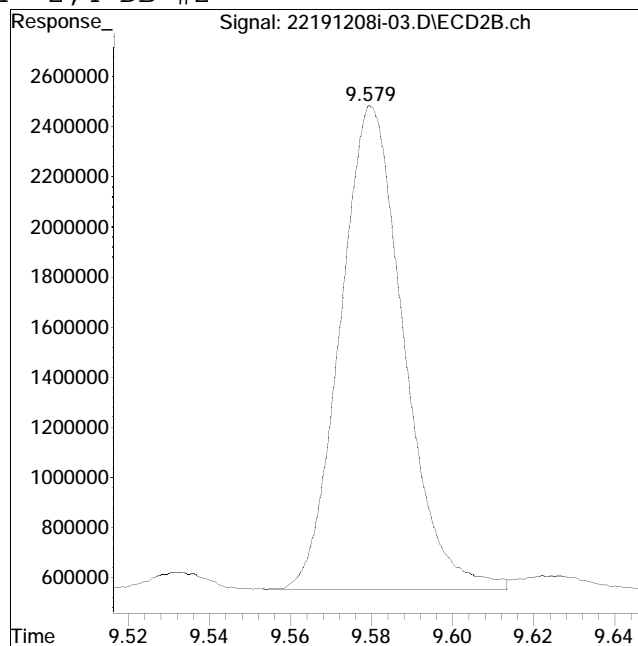
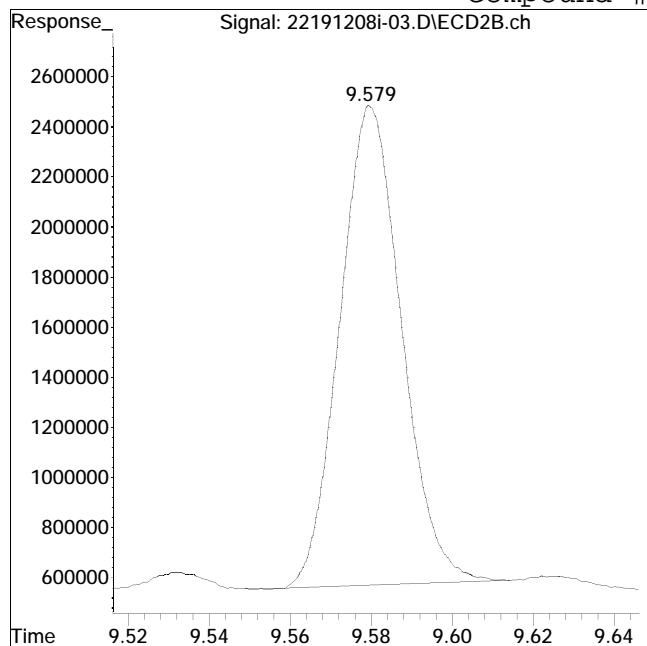
Compound #23: 2,4,5-T #2



Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-03.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:07 pm Instrument : Pest22
Sample : iL2herb9500,42e,, Quant Date : 12/9/2019 11:02 am

Compound #24: 2,4-DB #2



Original Peak Response = 20171587

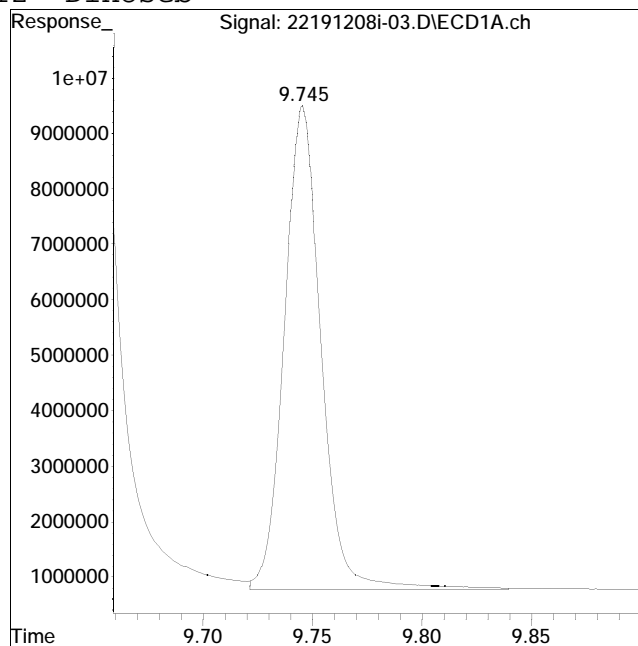
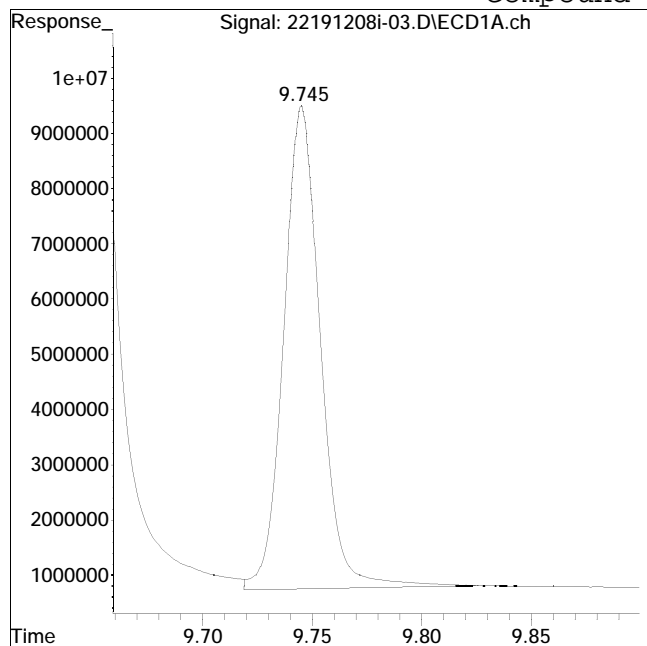
Manual Peak Response = 21075538 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-03.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:07 pm Instrument : Pest22
Sample : iL2herb9500,42e,, Quant Date : 12/9/2019 11:02 am

Compound #12: Dinoseb



Original Peak Response = 102478197

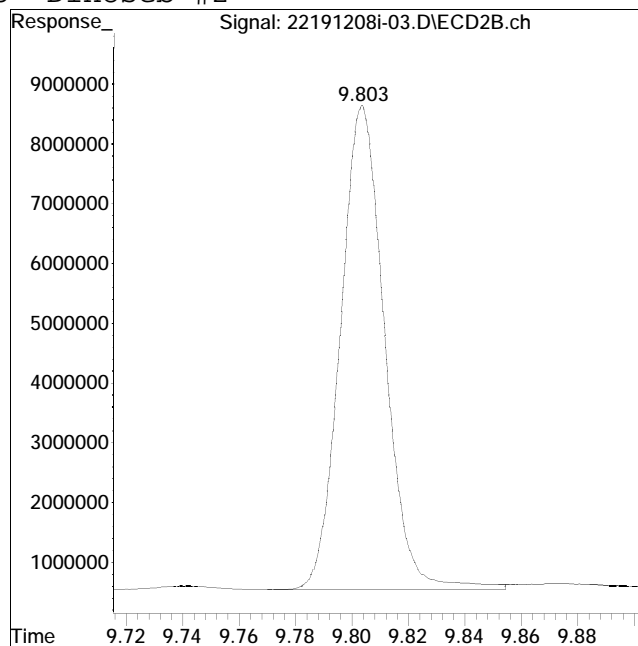
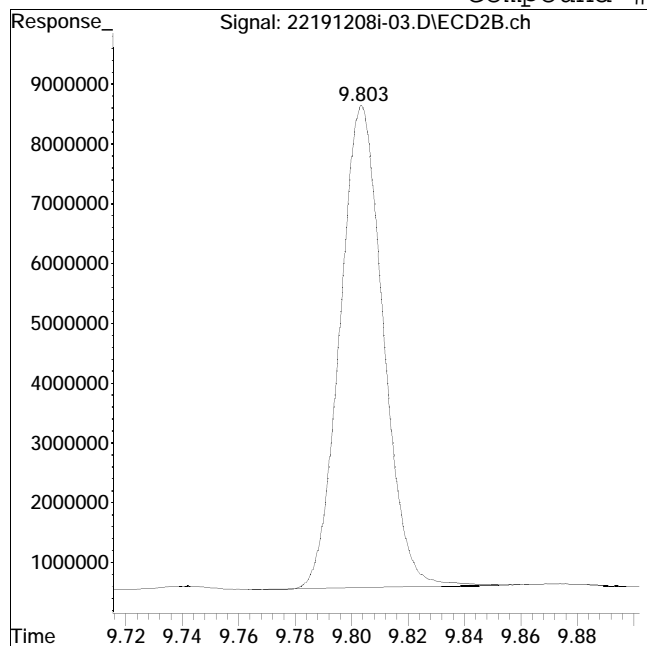
Manual Peak Response = 102503796 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-03.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:07 pm Instrument : Pest22
Sample : iL2herb9500,42e,, Quant Date : 12/9/2019 11:02 am

Compound #25: Dinoseb #2



Original Peak Response = 85803174

Manual Peak Response = 88147539 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest22\data\2019\191208ical\
 Data File : 22191208i-04.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Dec 2019 07:25 pm
 Operator : pest22:dgm
 Sample : iL3herb9501,42e,,
 Misc : wgl318475,ical (Sig #1); ical (Sig #2)
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 09 12:01:57 2019
 Quant Method : I:\Pest22\data\2019\191208ical\Herb22_19_12_08_mgL_ICAL.m
 Quant Title : herb
 QLast Update : Mon Dec 09 10:46:33 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Internal Standards							
1) i	4,4'-DFOB	8.079	8.208	507.3E6	445.5E6	0.250M4	0.250M4
System Monitoring Compounds							
3) s	DCAA (surrog	6.536	7.134	64251127	63208395	0.205M4	0.198M4
Spiked Amount		0.500	Range	30 - 150	Recovery	=	41.00% 39.60%
Target Compounds							
2) t	Dalapon	2.084	2.168	64719983	62805546	0.209M4	0.206M4
4) t	Dicamba	6.712	7.311	191.5E6	181.3E6	0.197M4	0.193M4
5) t	MCPPP	6.917	7.425	23942386	22748271	18.916M4	19.391M4
6) t	MCPA	7.063	7.654	42857804	41910517	21.470M4	20.779M4
7) t	Dichloroprop	7.415	7.971	58121074	52898448	0.195M4	0.202M4
8) t	2,4-D	7.628	8.256	70663454	74872201	0.197M4	0.200
9) t	2,4,5-TP (Si	8.355	8.918	259.1E6	236.8E6	0.196M4	0.191M4
10) t	2,4,5-T	8.582	9.214f	269.0E6	240.7E6	0.193	0.216M3
11) t	2,4-DB	8.997	9.579	56620277	38404172	0.237M4	0.198M4
12) t	Dinoseb	9.745	9.804	189.8E6	164.7E6	0.203	0.196M4

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest22\data\2019\191208ical\
Data File : 22191208i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Dec 2019 07:25 pm
Operator : pest22:dgm
Sample : iL3herb9501,42e,,
Misc : wgl318475,ical (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 09 12:01:57 2019
Quant Method : I:\Pest22\data\2019\191208ical\Herb22_19_12_08_mgL_ICAL.m
Quant Title : herb
QLast Update : Mon Dec 09 10:46:33 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

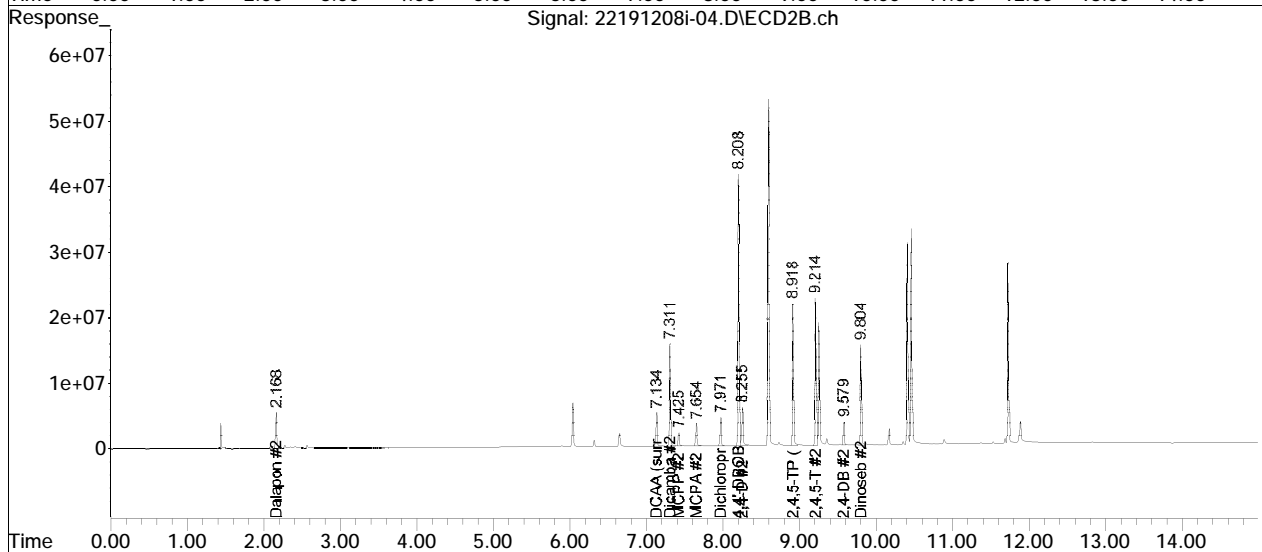
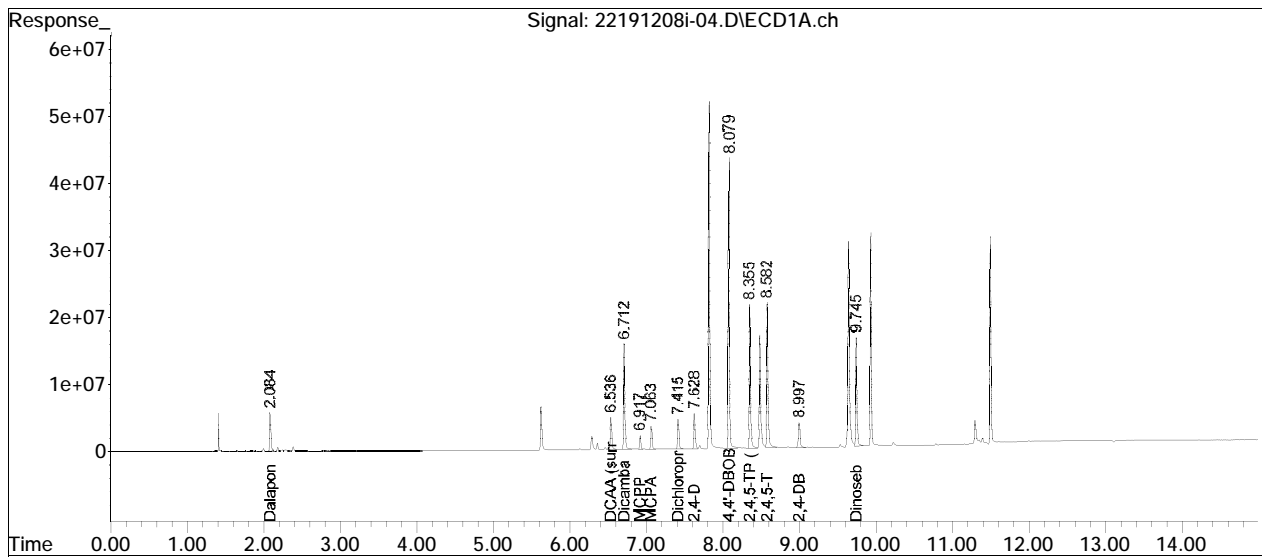
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.						

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest22\data\2019\191208ical\
Data File : 22191208i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Dec 2019 07:25 pm
Operator : pest22:dgm
Sample : iL3herb9501,42e,,
Misc : wg1318475,ical (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 09 12:01:57 2019
Quant Method : I:\Pest22\data\2019\191208ical\Herb22_19_12_08_mgL_ICAL.m
Quant Title : herb
QLast Update : Mon Dec 09 10:46:33 2019
Response via : Initial Calibration
Integrator: ChemStation

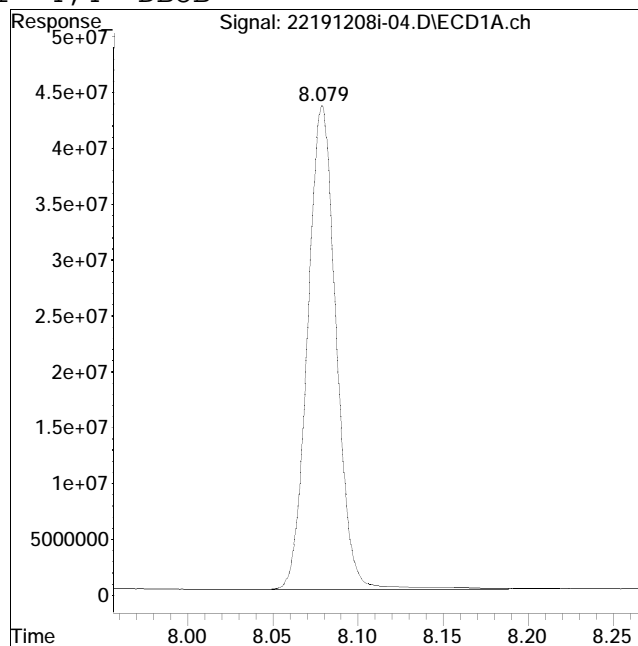
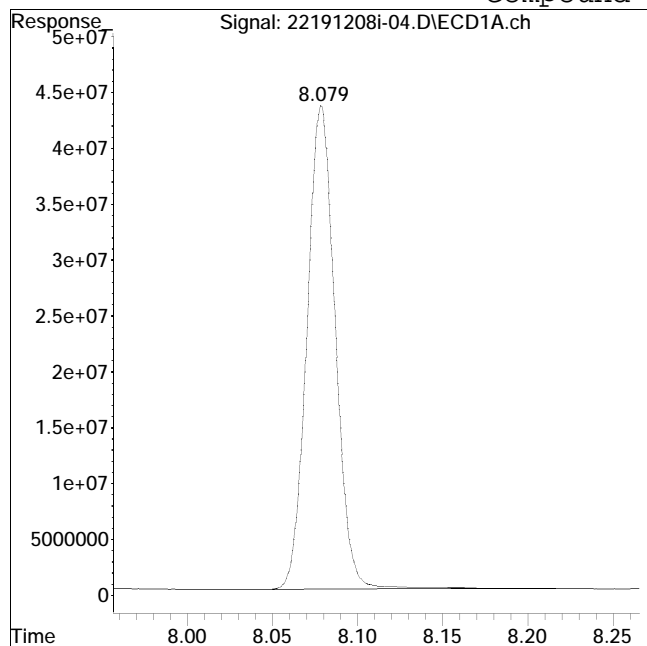
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-04.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:25 pm Instrument : Pest22
Sample : iL3herb9501,42e,, Quant Date : 12/9/2019 10:47 am

Compound #1: 4,4'-DBOB



Original Peak Response = 501673499

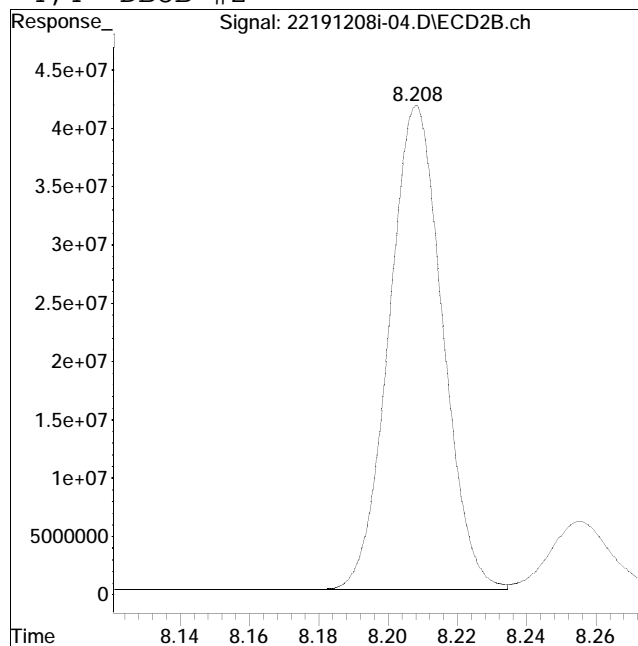
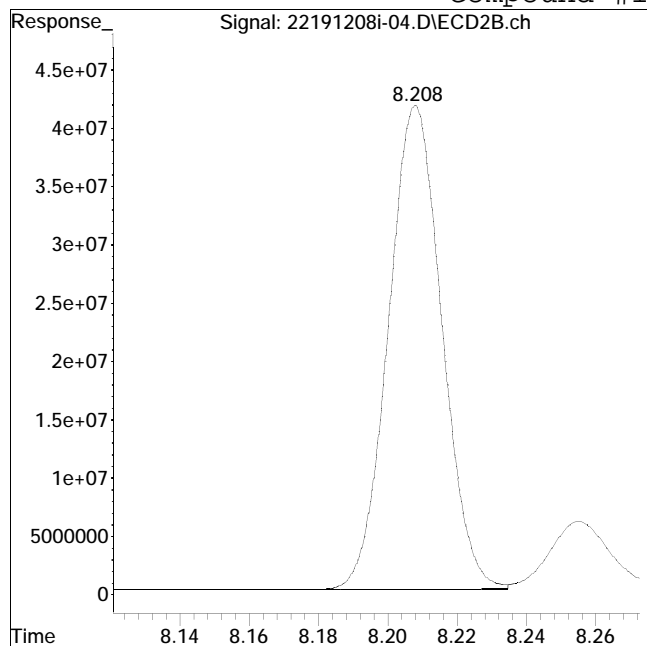
Manual Peak Response = 507284268 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-04.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:25 pm Instrument : Pest22
Sample : iL3herb9501,42e,, Quant Date : 12/9/2019 10:47 am

Compound #14: 4,4'-DBOB #2



Original Peak Response = 444061503

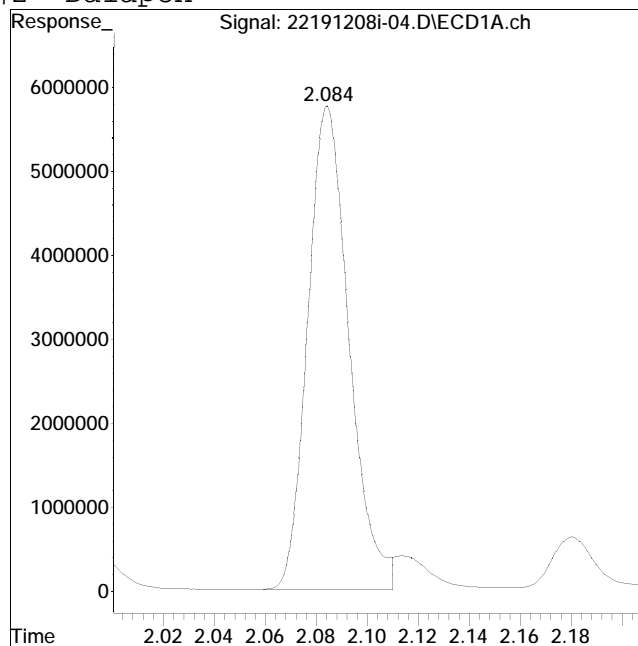
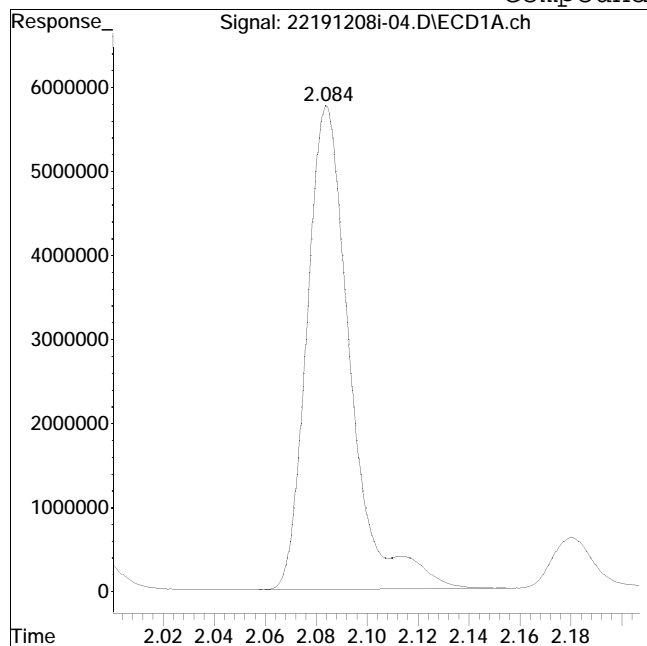
Manual Peak Response = 445471238 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-04.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:25 pm Instrument : Pest22
Sample : iL3herb9501,42e,, Quant Date : 12/9/2019 10:47 am

Compound #2: Dalapon



Original Peak Response = 67931606

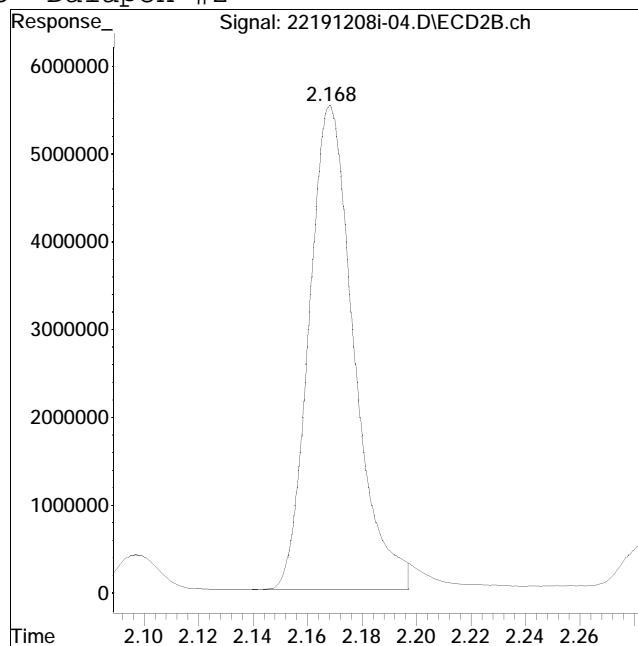
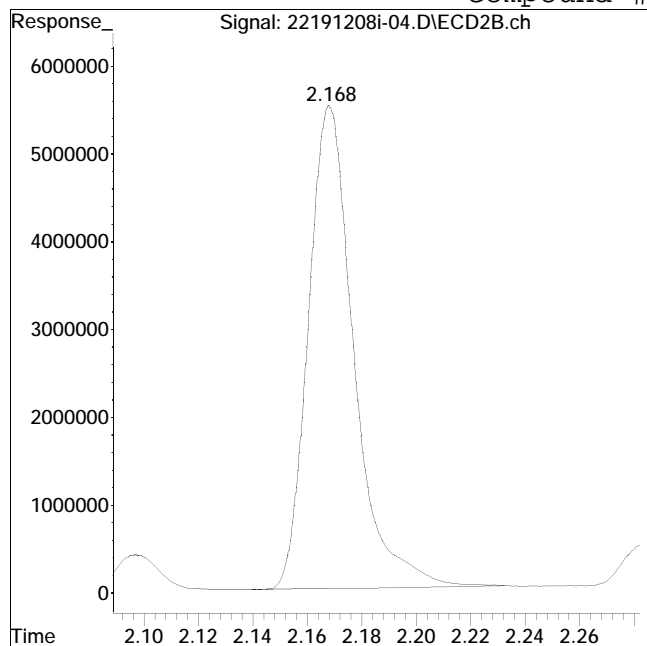
Manual Peak Response = 64719983 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-04.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:25 pm Instrument : Pest22
Sample : iL3herb9501,42e,, Quant Date : 12/9/2019 10:47 am

Compound #15: Dalapon #2



Original Peak Response = 63694923

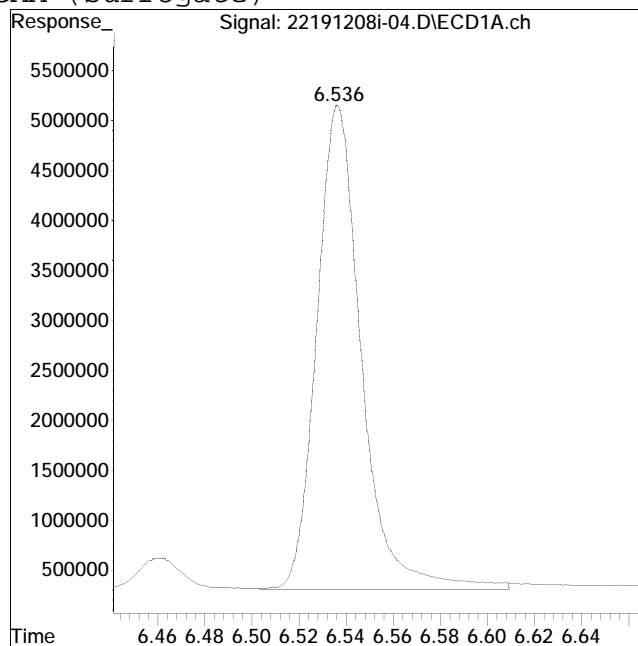
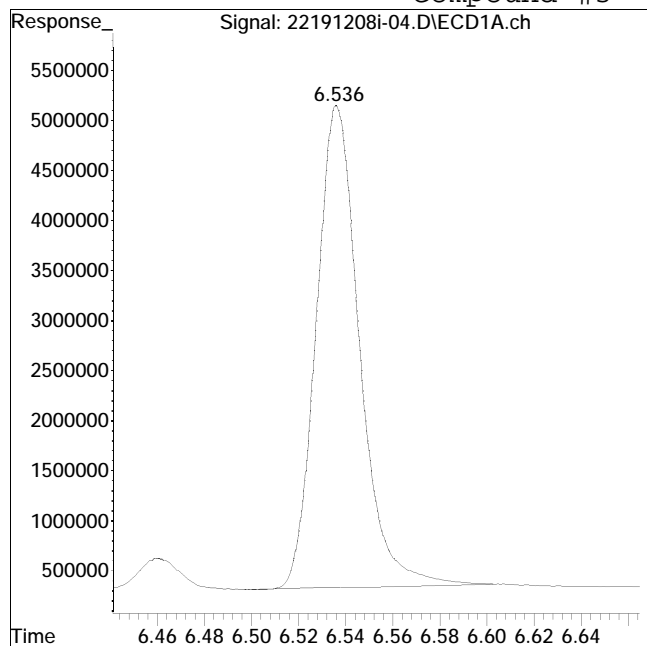
Manual Peak Response = 62805546 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-04.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:25 pm Instrument : Pest22
Sample : iL3herb9501,42e,, Quant Date : 12/9/2019 10:47 am

Compound #3: DCAA (surrogate)



Original Peak Response = 61400559

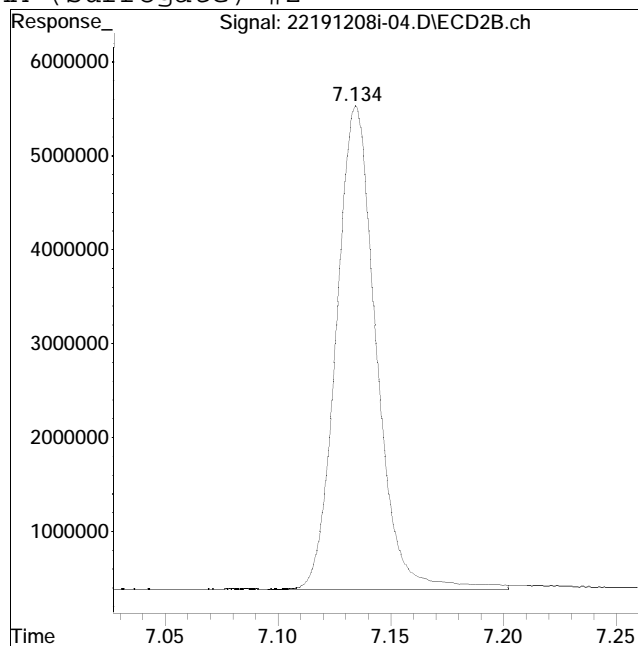
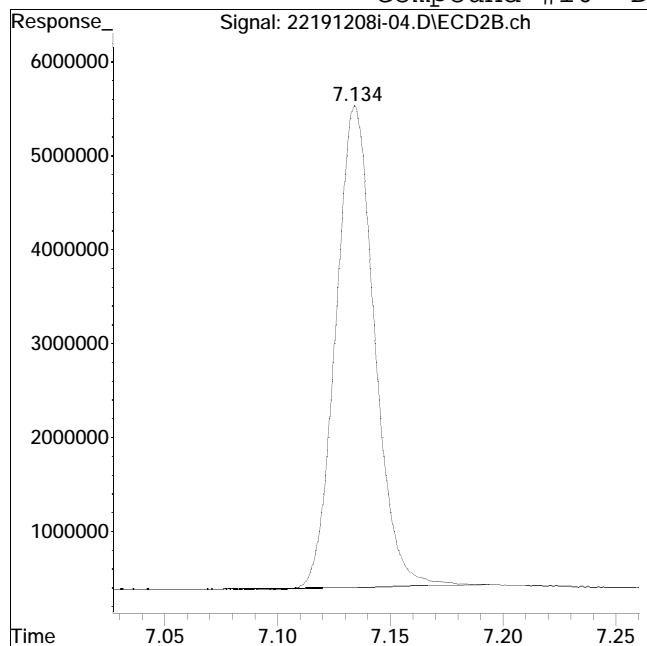
Manual Peak Response = 64251127 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-04.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:25 pm Instrument : Pest22
Sample : iL3herb9501,42e,, Quant Date : 12/9/2019 10:47 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 61078069

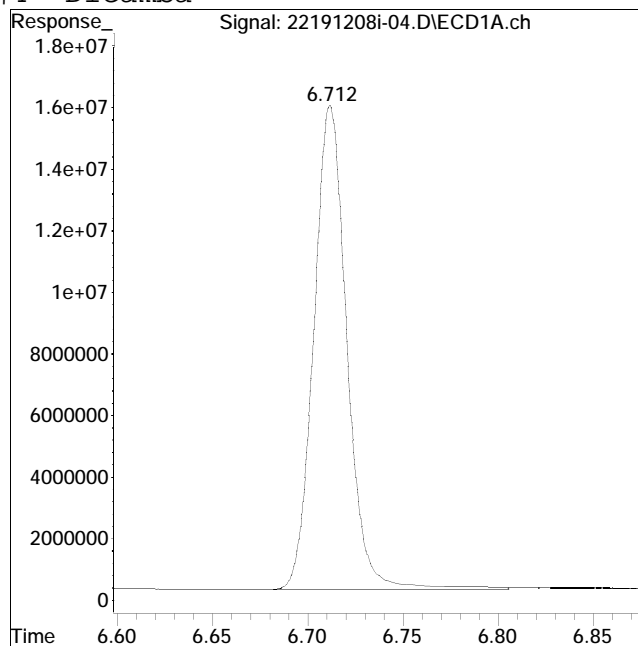
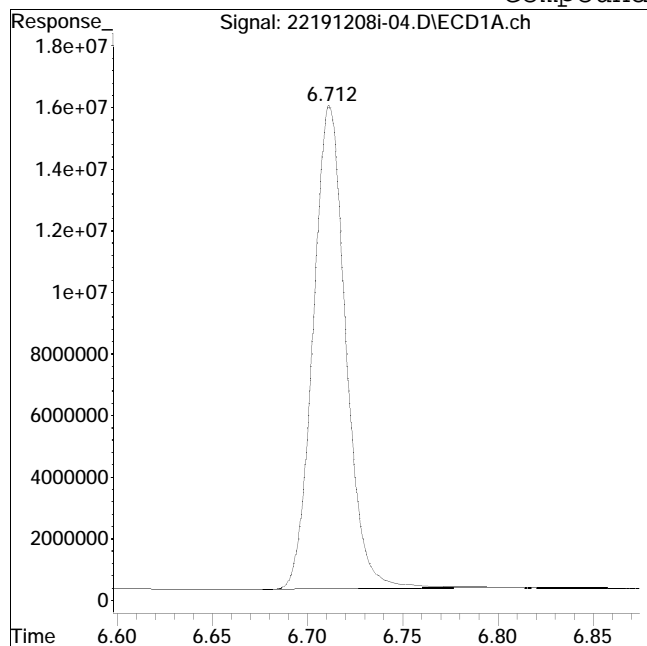
Manual Peak Response = 63208395 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-04.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:25 pm Instrument : Pest22
Sample : iL3herb9501,42e,, Quant Date : 12/9/2019 10:47 am

Compound #4: Dicamba



Original Peak Response = 187515982

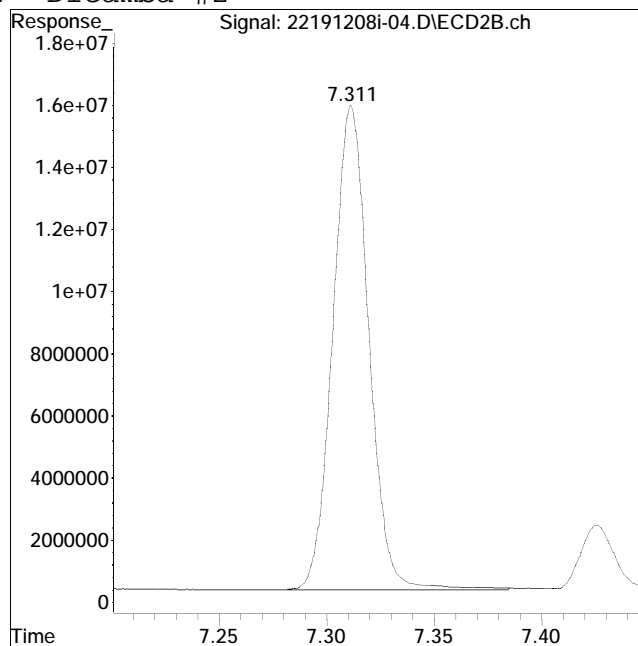
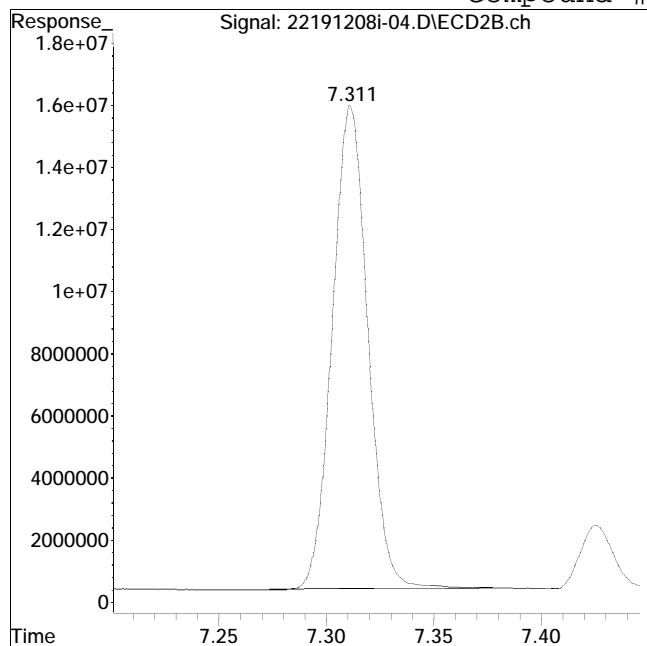
Manual Peak Response = 191472199 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-04.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:25 pm Instrument : Pest22
Sample : iL3herb9501,42e,, Quant Date : 12/9/2019 10:47 am

Compound #17: Dicamba #2



Original Peak Response = 178436904

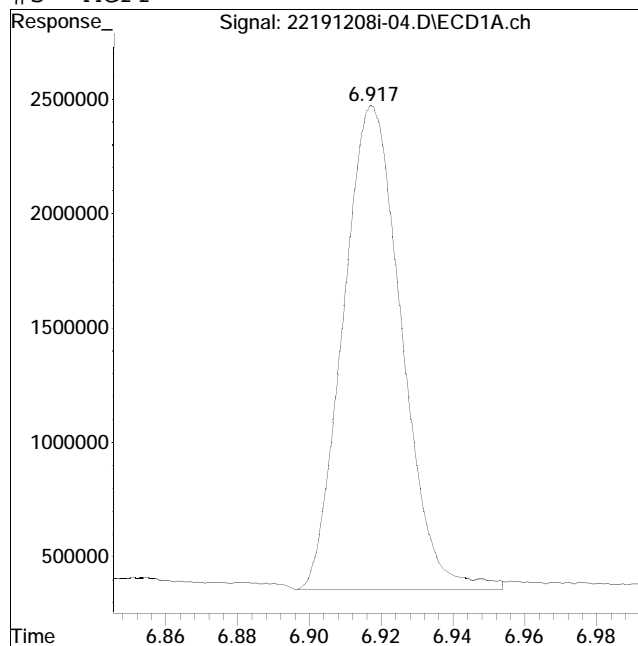
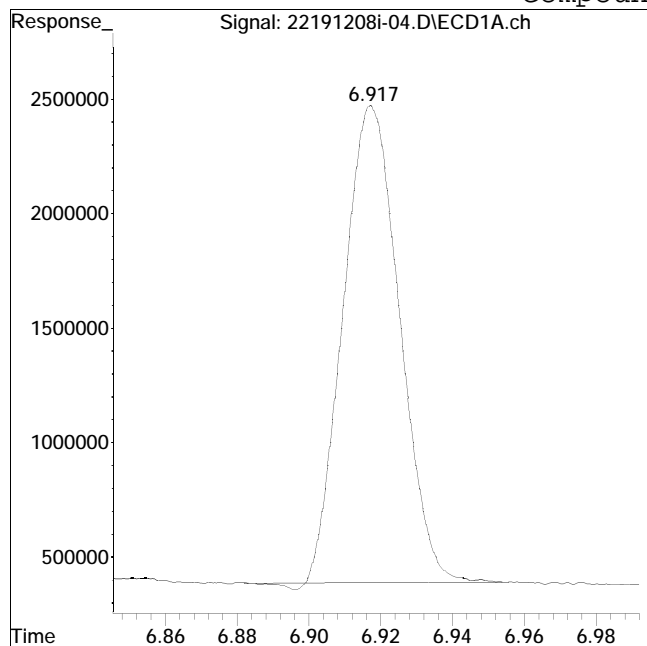
Manual Peak Response = 181261039 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-04.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:25 pm Instrument : Pest22
Sample : iL3herb9501,42e,, Quant Date : 12/9/2019 10:47 am

Compound #5: MCPP



Original Peak Response = 22709811

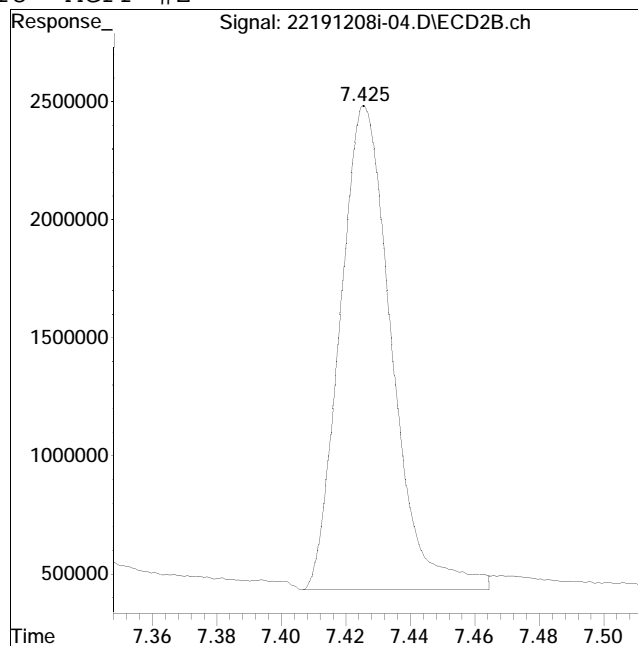
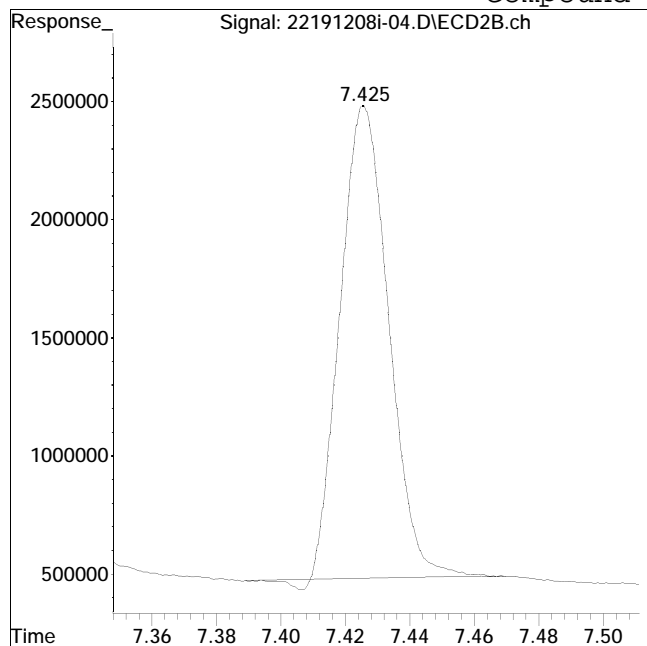
Manual Peak Response = 23942386 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-04.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:25 pm Instrument : Pest22
Sample : iL3herb9501,42e,, Quant Date : 12/9/2019 10:47 am

Compound #18: MCPP #2



Original Peak Response = 20845422

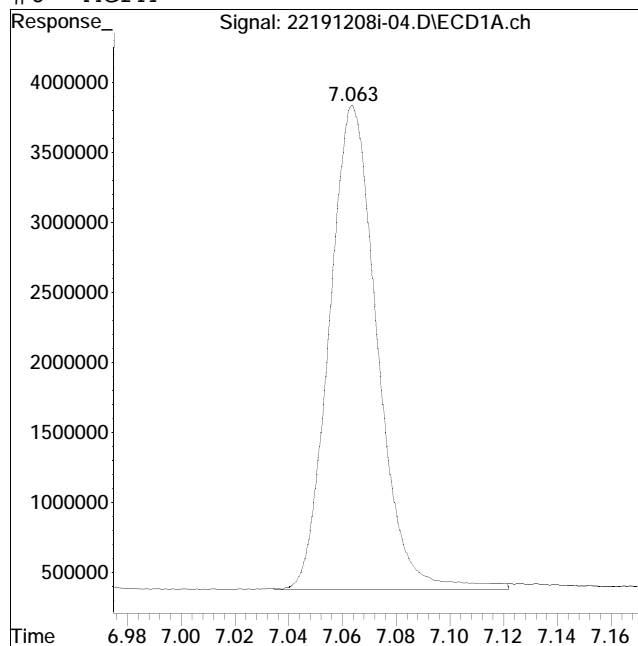
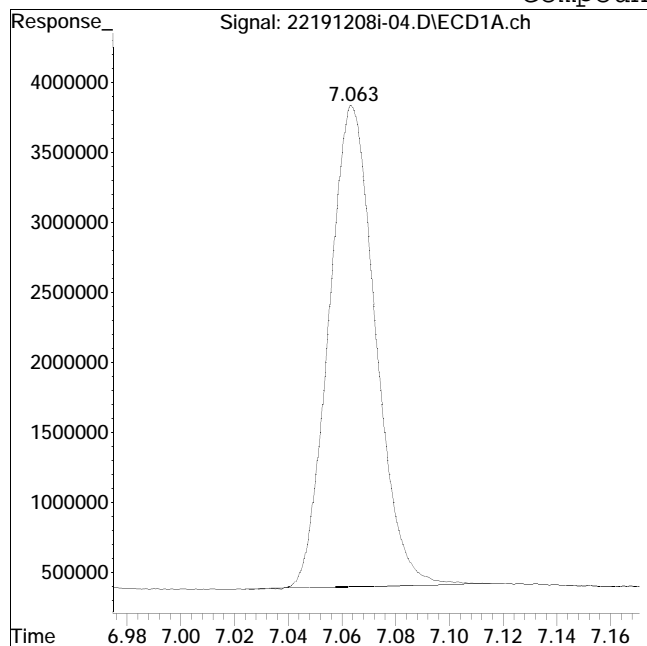
Manual Peak Response = 22748271 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-04.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:25 pm Instrument : Pest22
Sample : iL3herb9501,42e,, Quant Date : 12/9/2019 10:47 am

Compound #6: MCPA



Original Peak Response = 41416993

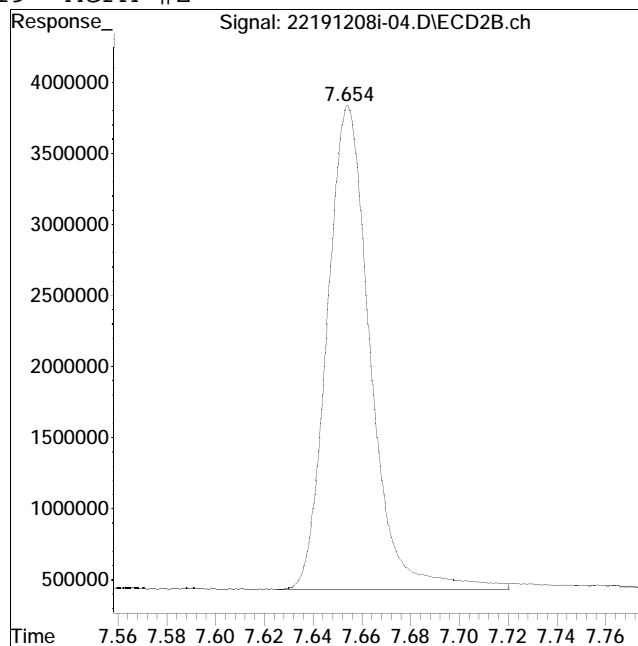
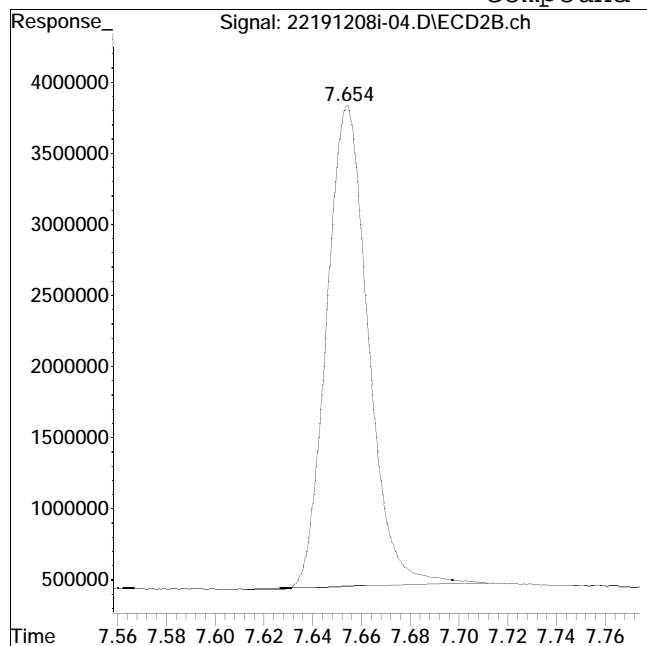
Manual Peak Response = 42857804 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-04.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:25 pm Instrument : Pest22
Sample : iL3herb9501,42e,, Quant Date : 12/9/2019 10:47 am

Compound #19: MCPA #2



Original Peak Response = 39991239

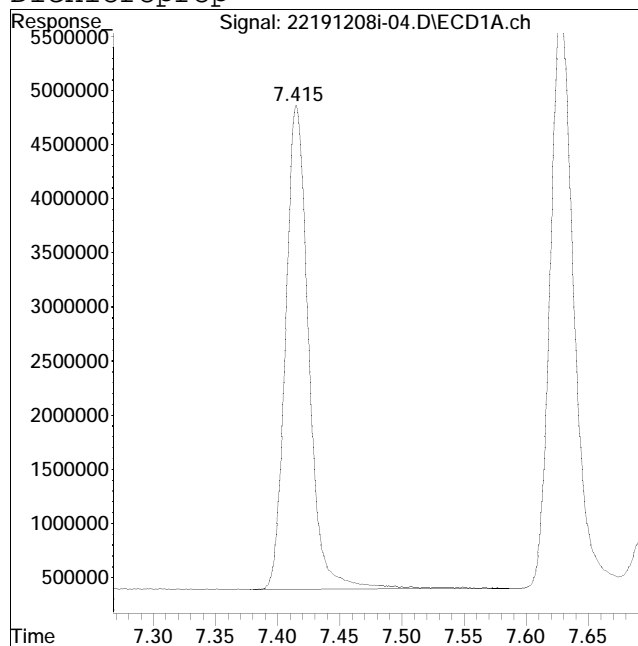
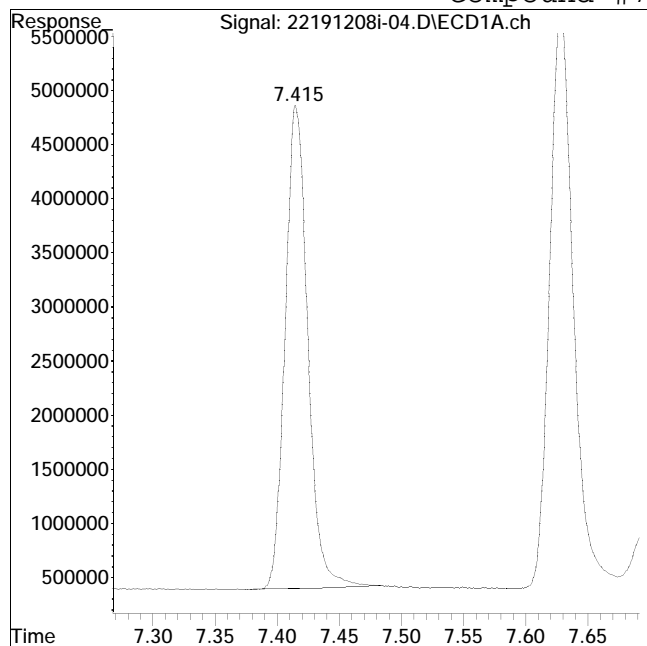
Manual Peak Response = 41910517 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-04.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:25 pm Instrument : Pest22
Sample : iL3herb9501,42e,, Quant Date : 12/9/2019 10:47 am

Compound #7: Dichloroprop



Original Peak Response = 56346748

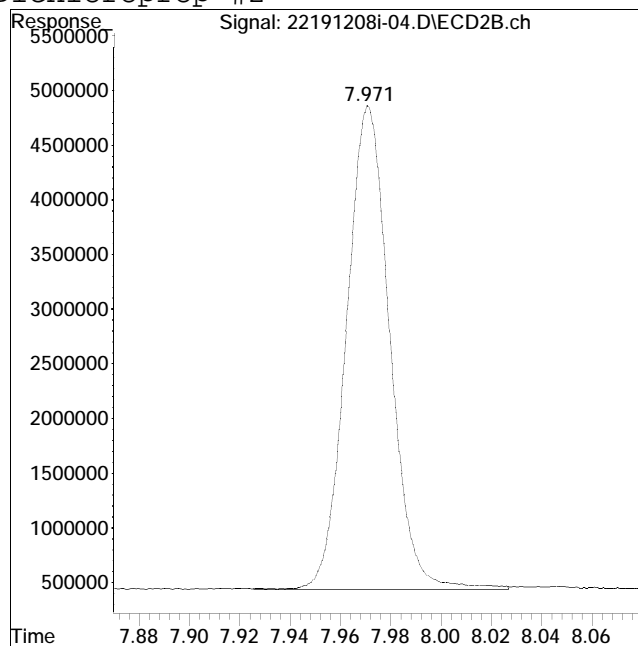
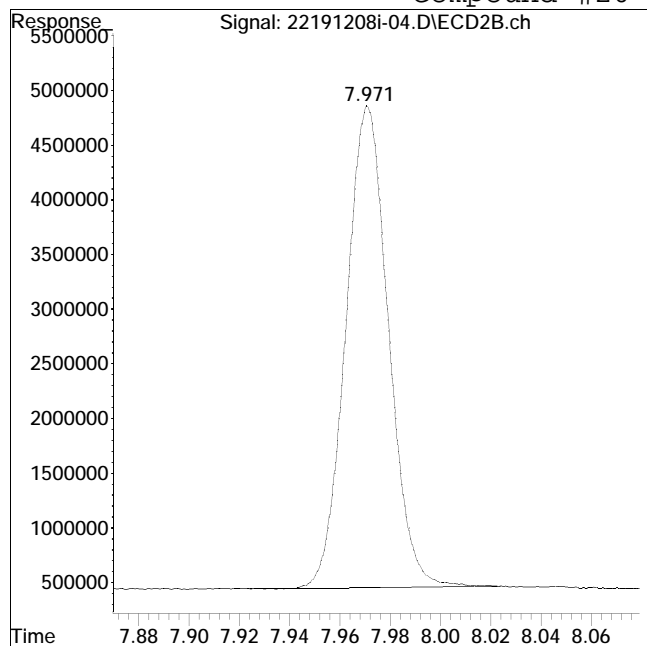
Manual Peak Response = 58121074 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-04.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:25 pm Instrument : Pest22
Sample : iL3herb9501,42e,, Quant Date : 12/9/2019 10:47 am

Compound #20: Dichloroprop #2



Original Peak Response = 51853554

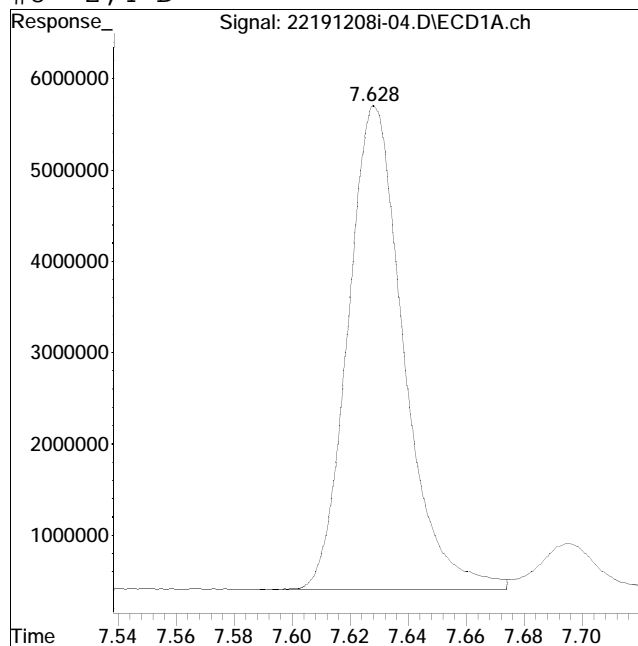
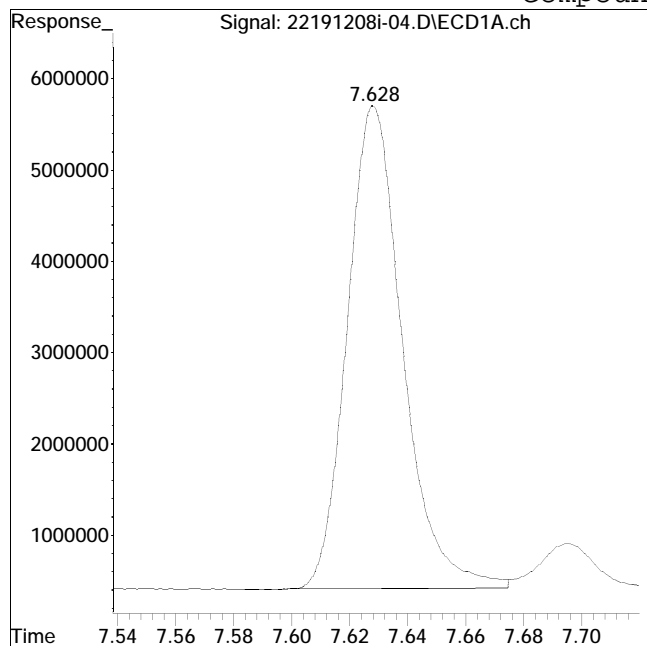
Manual Peak Response = 52898448 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-04.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:25 pm Instrument : Pest22
Sample : iL3herb9501,42e,, Quant Date : 12/9/2019 10:47 am

Compound #8: 2,4-D



Original Peak Response = 70037093

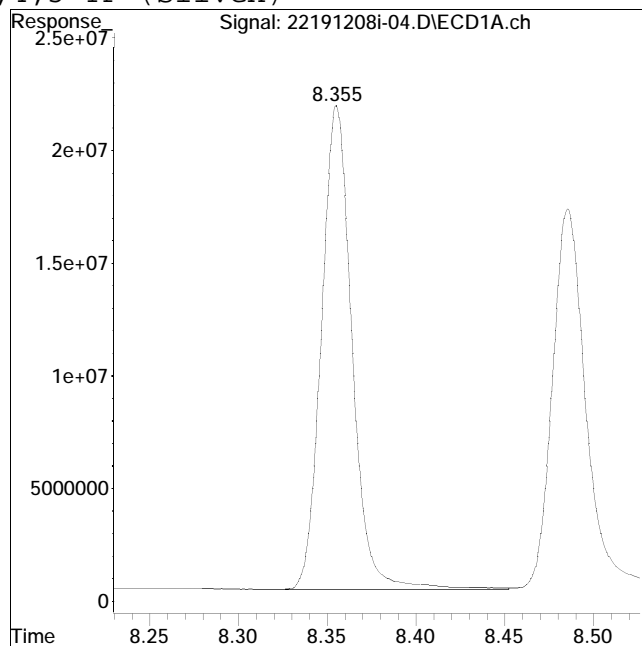
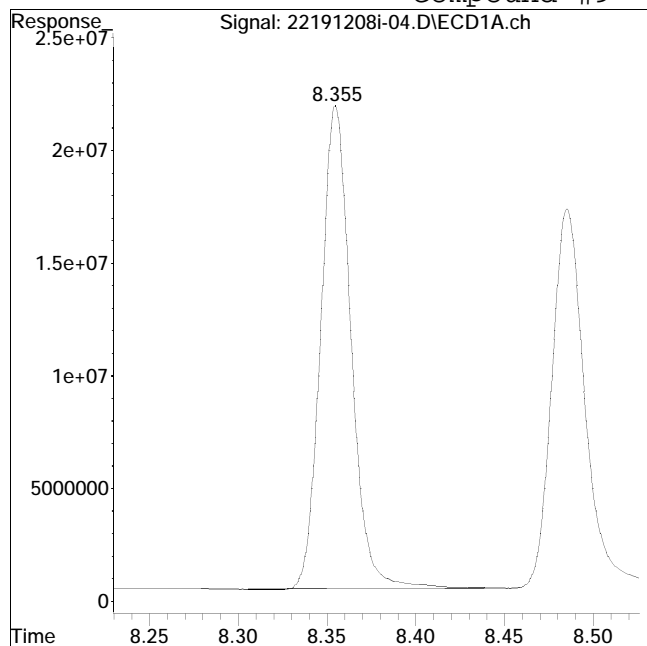
Manual Peak Response = 70663454 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-04.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:25 pm Instrument : Pest22
Sample : iL3herb9501,42e,, Quant Date : 12/9/2019 10:47 am

Compound #9: 2,4,5-TP (Silvex)



Original Peak Response = 253997101

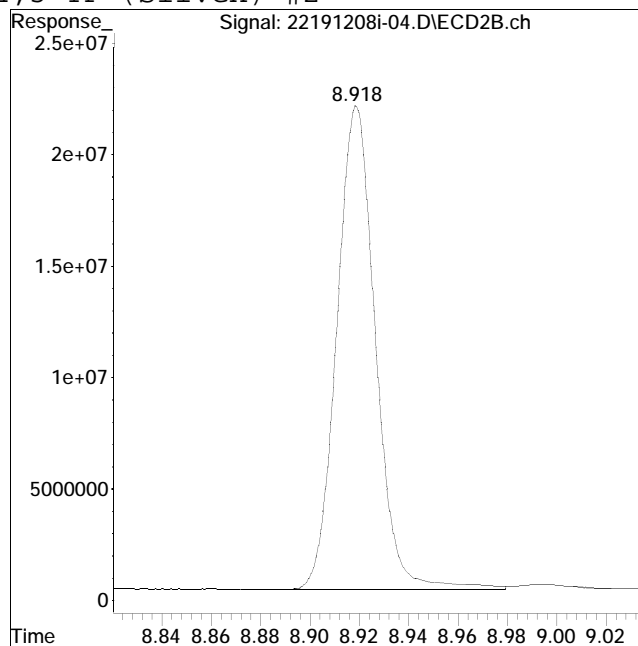
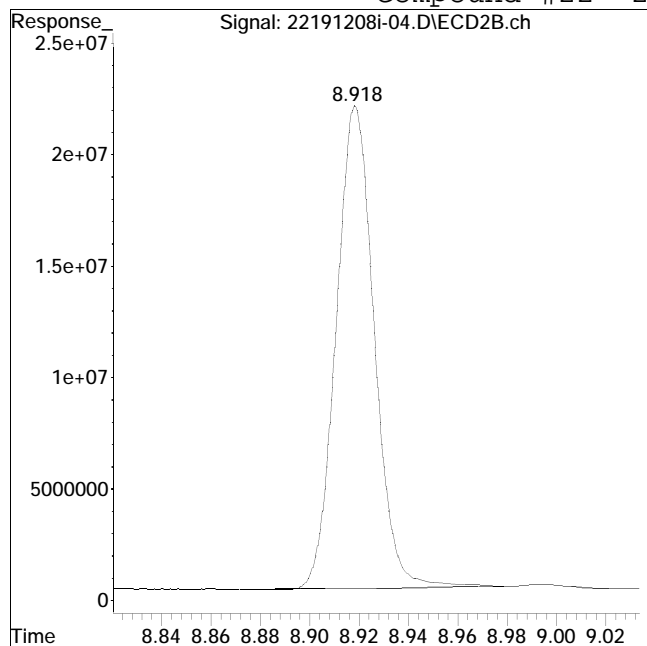
Manual Peak Response = 259137637 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-04.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:25 pm Instrument : Pest22
Sample : iL3herb9501,42e,, Quant Date : 12/9/2019 10:47 am

Compound #22: 2,4,5-TP (Silvex) #2



Original Peak Response = 231707170

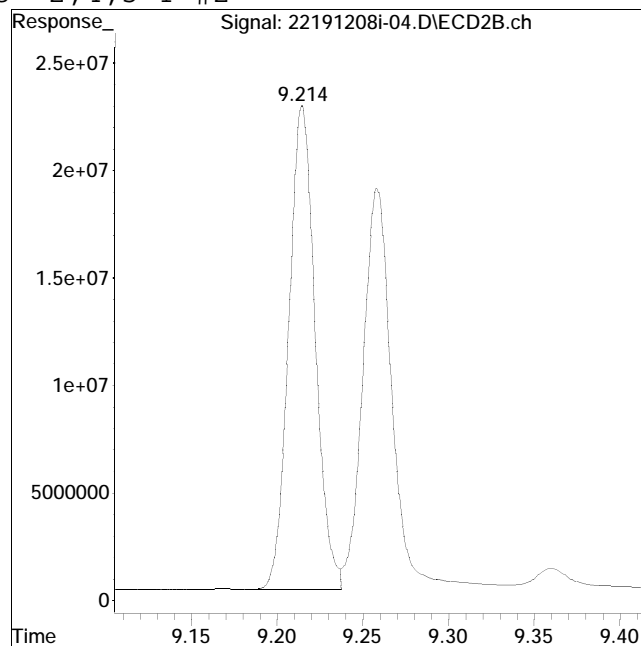
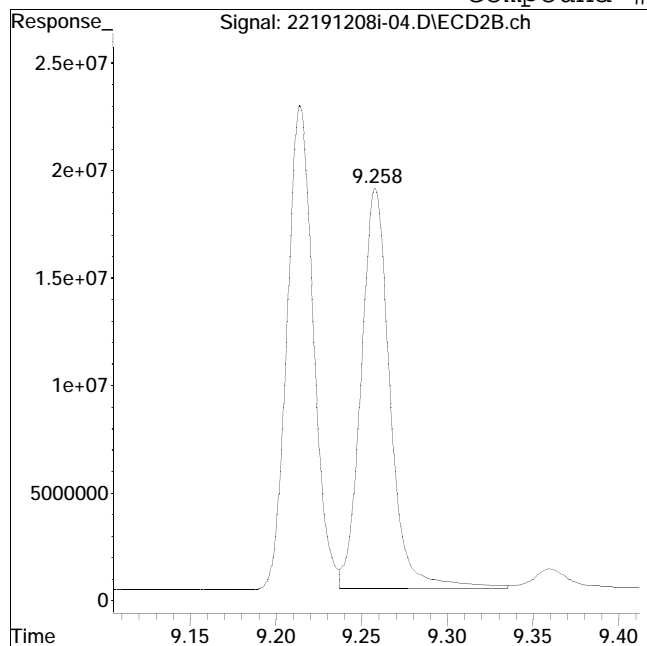
Manual Peak Response = 236849299 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-04.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:25 pm Instrument : Pest22
Sample : iL3herb9501,42e,, Quant Date : 12/9/2019 10:47 am

Compound #23: 2,4,5-T #2



Original Peak Response = 219108776

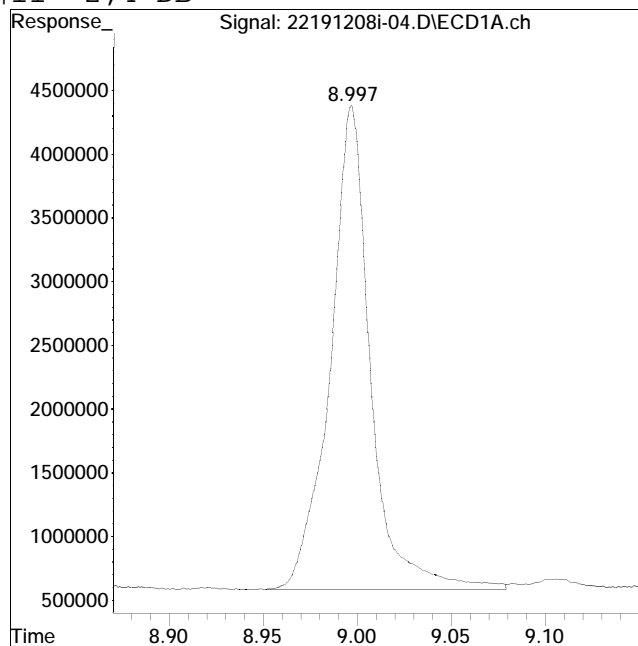
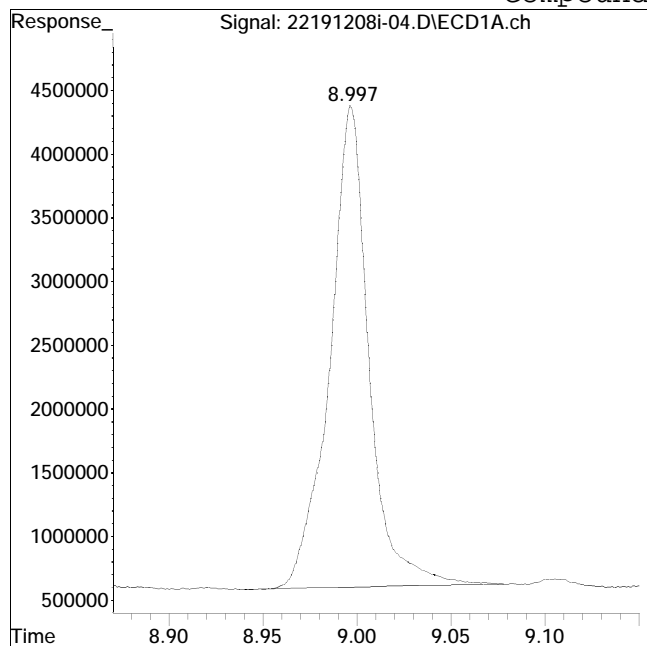
Manual Peak Response = 240694691 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-04.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:25 pm Instrument : Pest22
Sample : iL3herb9501,42e,, Quant Date : 12/9/2019 10:47 am

Compound #11: 2,4-DB



Original Peak Response = 54920859

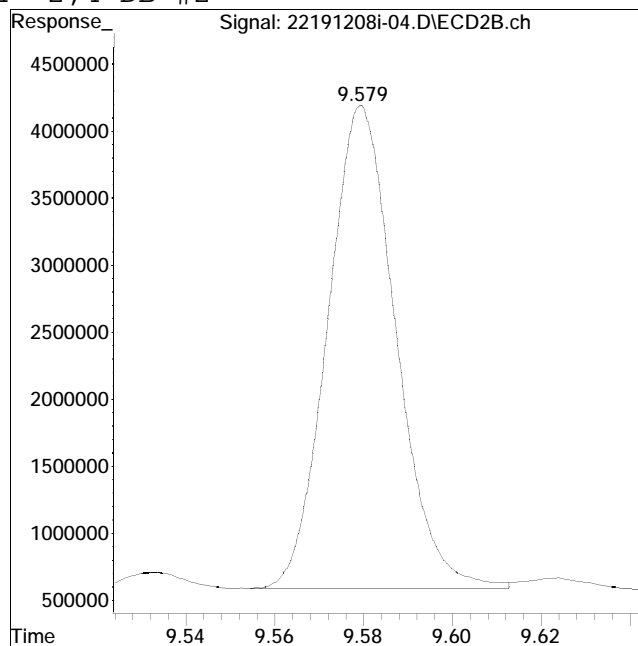
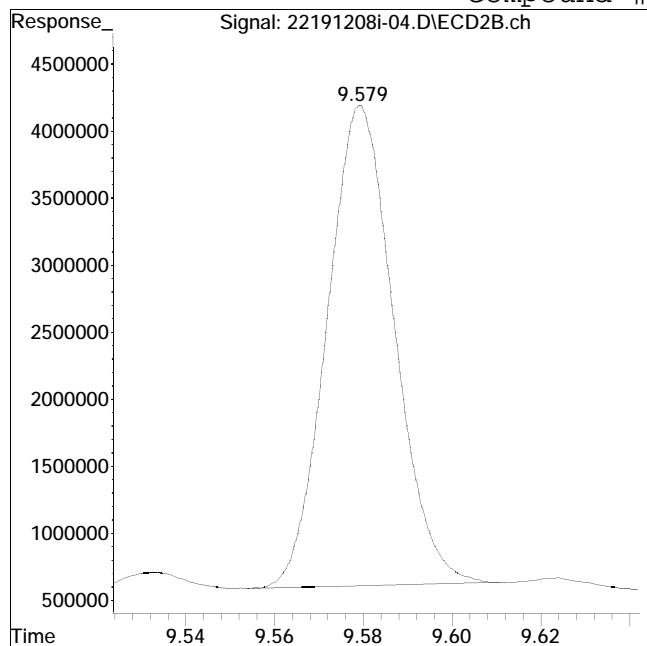
Manual Peak Response = 56620277 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-04.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:25 pm Instrument : Pest22
Sample : iL3herb9501,42e,, Quant Date : 12/9/2019 10:47 am

Compound #24: 2,4-DB #2



Original Peak Response = 37575402

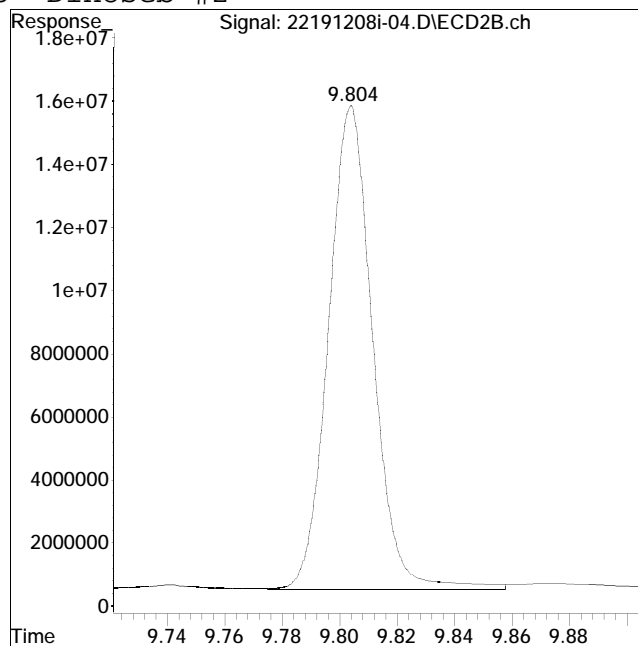
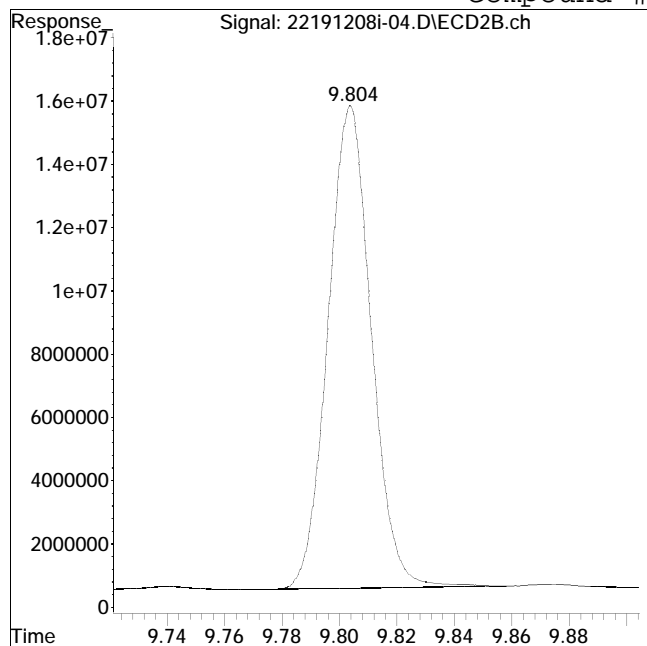
Manual Peak Response = 38404172 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-04.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:25 pm Instrument : Pest22
Sample : iL3herb9501,42e,, Quant Date : 12/9/2019 10:47 am

Compound #25: Dinoseb #2



Original Peak Response = 159050518

Manual Peak Response = 164706025 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest22\data\2019\191208ical\
 Data File : 22191208i-05.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Dec 2019 07:43 pm
 Operator : pest22:dgm
 Sample : iL4herb9502,42e,,
 Misc : wgl318475,ical (Sig #1); ical (Sig #2)
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 09 12:03:13 2019
 Quant Method : I:\Pest22\data\2019\191208ical\Herb22_19_12_08_mgL_ICAL.m
 Quant Title : herb
 QLast Update : Thu Dec 05 22:55:18 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Internal Standards							
1) i	4,4'-DFOB	8.079f	8.208f	554.1E6	481.2E6	0.250M2	0.250M2
System Monitoring Compounds							
3) s	DCAA (surrog	6.535f	7.134f	160.7E6	162.3E6	NoCal M2	NoCal M2
Spiked Amount		0.500	Range	30 - 150	Recovery	=	0.00%# 0.00%#
Target Compounds							
2) t	Dalapon	2.086f	2.170f	154.3E6	150.1E6	NoCal M2	NoCal M2
4) t	Dicamba	6.711f	7.311f	500.2E6	477.2E6	NoCal M2	NoCal M2
5) t	MCPP	6.917f	7.426f	64980177	59562016	NoCal M2	NoCal M2
6) t	MCPA	7.064f	7.654f	101.4E6	101.3E6	NoCal M2	NoCal M2
7) t	Dichloroprop	7.414f	7.970f	143.4E6	131.8E6	NoCal M4	NoCal M2
8) t	2,4-D	7.626f	8.255f	184.2E6	190.0E6	NoCal M2	NoCal M2
9) t	2,4,5-TP (Si	8.354f	8.918f	684.7E6	635.0E6	NoCal M2	NoCal M2
10) t	2,4,5-T	8.581f	9.214f	722.8E6	643.7E6	NoCal M2	NoCal M2
11) t	2,4-DB	8.995f	9.579f	125.1E6	100.7E6	NoCal M2	NoCal M2
12) t	Dinoseb	9.744f	9.804f	483.3E6	432.1E6	NoCal M4	NoCal M2

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\Pest22\data\2019\191208ical\
Data File : 22191208i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Dec 2019 07:43 pm
Operator : pest22:dgm
Sample : iL4herb9502,42e,,
Misc : wgl318475,ical (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 09 12:03:13 2019
Quant Method : I:\Pest22\data\2019\191208ical\Herb22_19_12_08_mgL_ICAL.m
Quant Title : herb
QLast Update : Thu Dec 05 22:55:18 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
----------	------	------	--------	--------	------	------

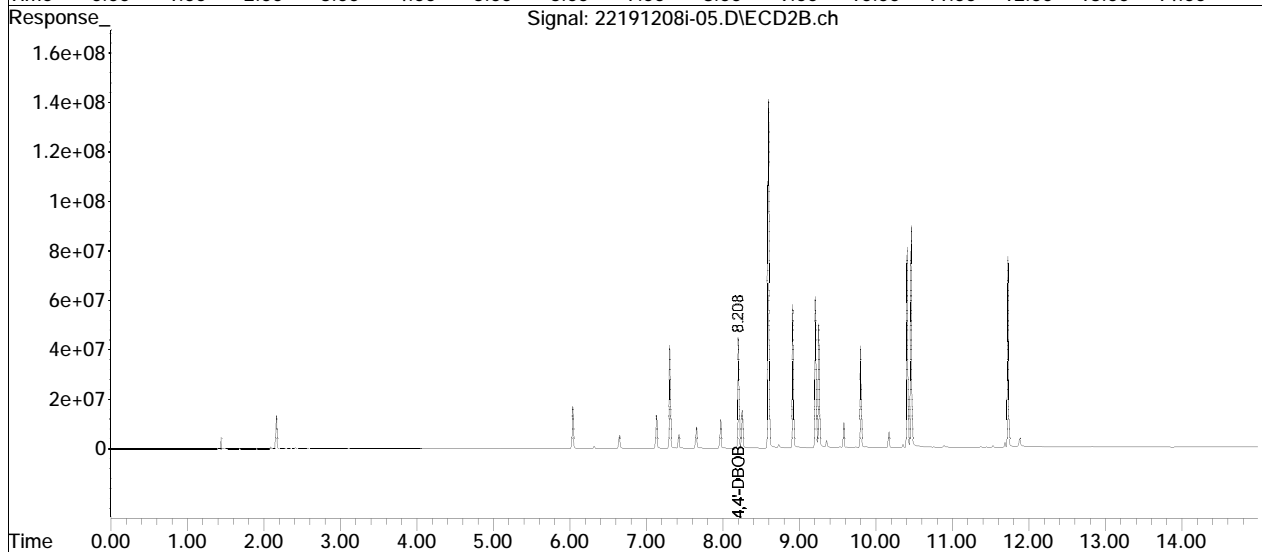
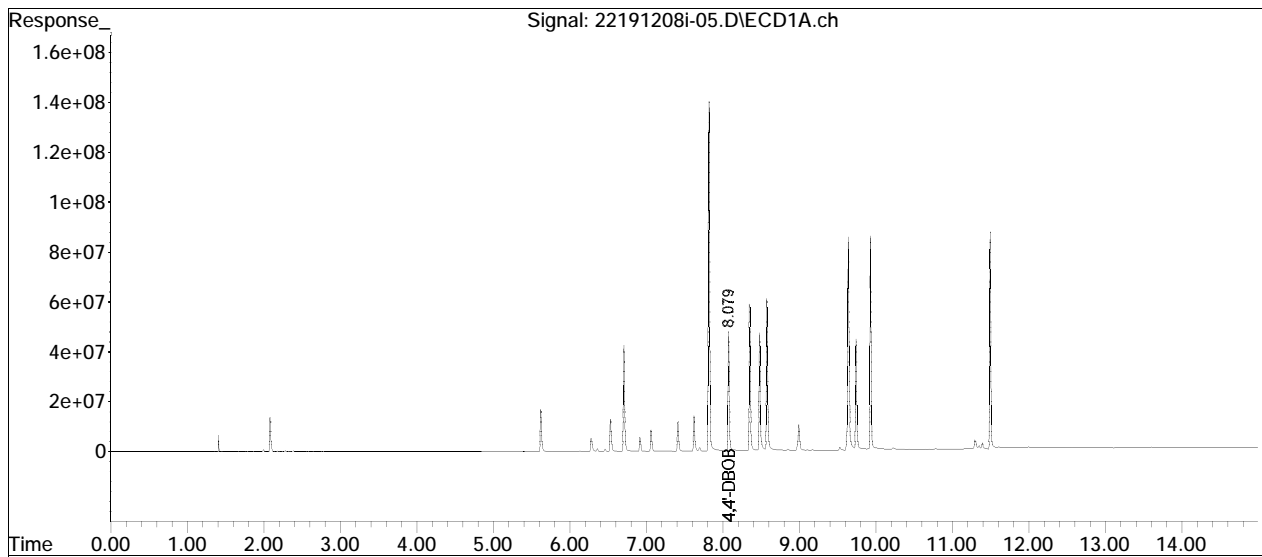
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest22\data\2019\191208ical\
Data File : 22191208i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Dec 2019 07:43 pm
Operator : pest22:dgm
Sample : iL4herb9502,42e,,
Misc : wg1318475,ical (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 09 12:03:13 2019
Quant Method : I:\Pest22\data\2019\191208ical\Herb22_19_12_08_mgL_ICAL.m
Quant Title : herb
QLast Update : Thu Dec 05 22:55:18 2019
Response via : Initial Calibration
Integrator: ChemStation

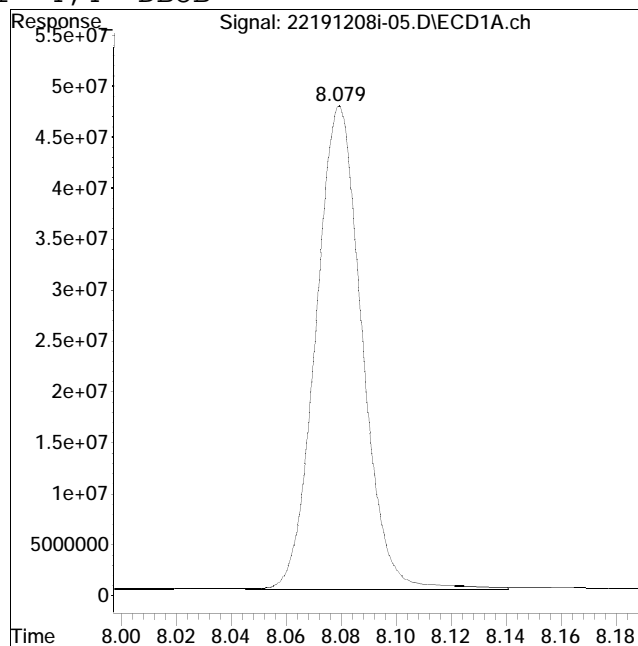
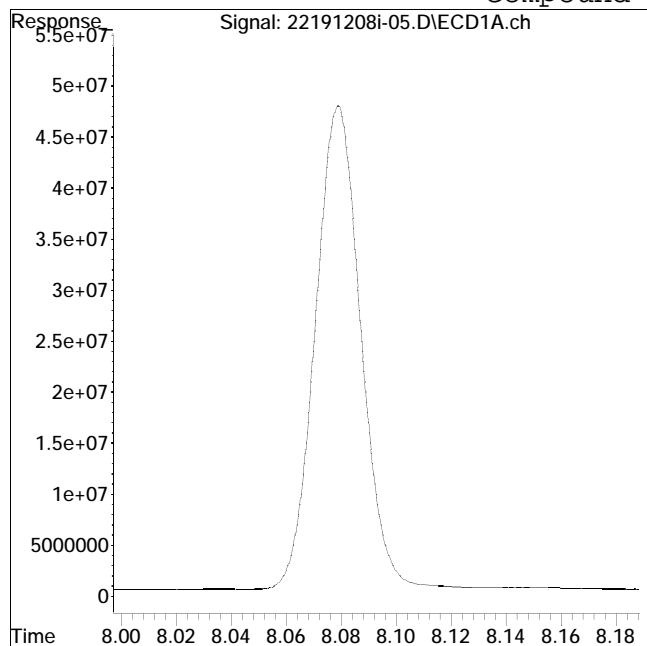
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-05.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:43 pm Instrument : Pest22
Sample : iL4herb9502,42e,, Quant Date : 12/9/2019 10:30 am

Compound #1: 4,4'-DBOB



Original Peak Response = 0

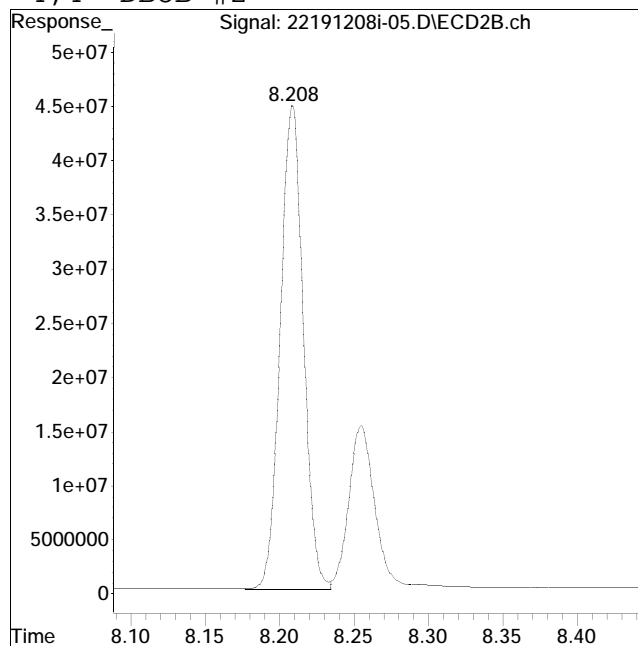
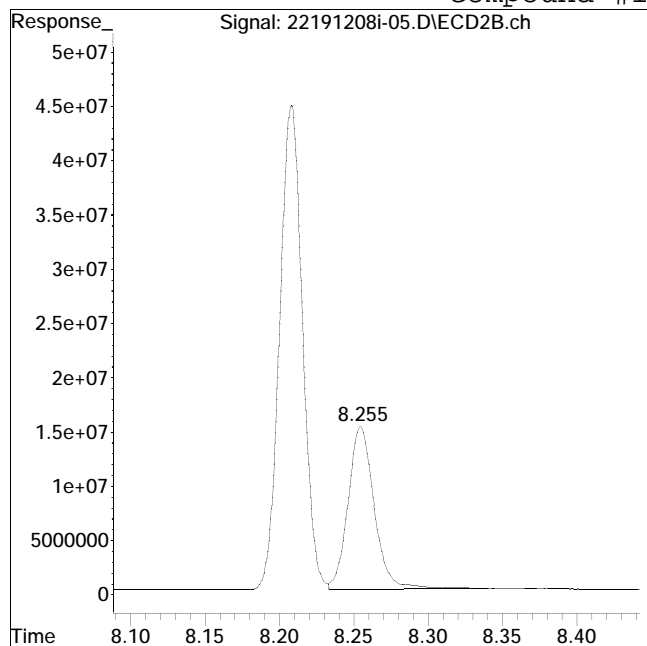
Manual Peak Response = 554101006 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-05.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:43 pm Instrument : Pest22
Sample : iL4herb9502,42e,, Quant Date : 12/9/2019 10:30 am

Compound #14: 4,4'-DBOB #2



Original Peak Response = 183977995

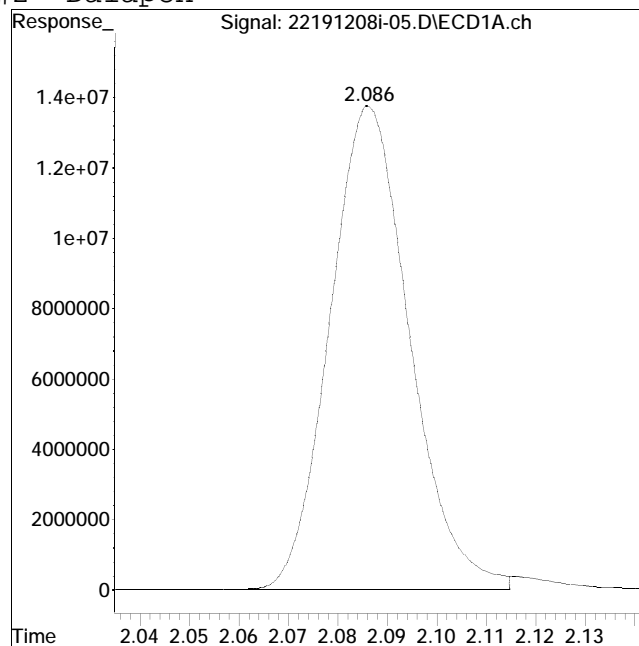
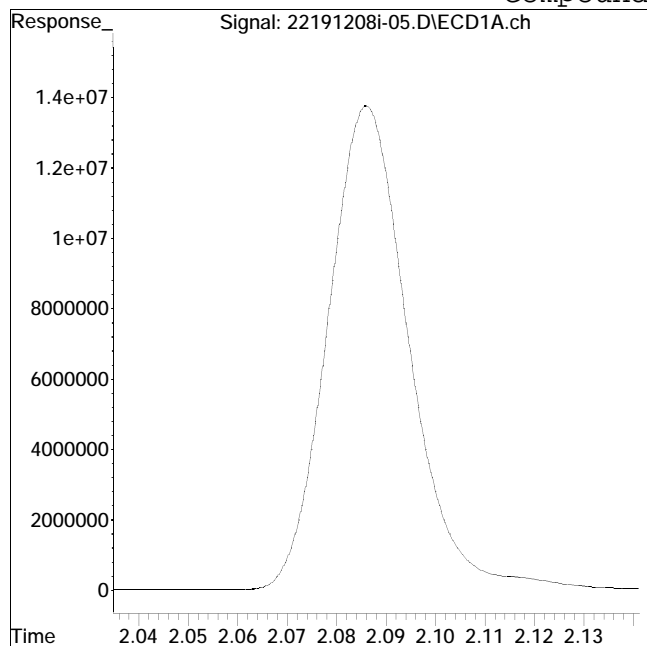
Manual Peak Response = 481230742 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-05.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:43 pm Instrument : Pest22
Sample : iL4herb9502,42e,, Quant Date : 12/9/2019 10:30 am

Compound #2: Dalapon



Original Peak Response = 0

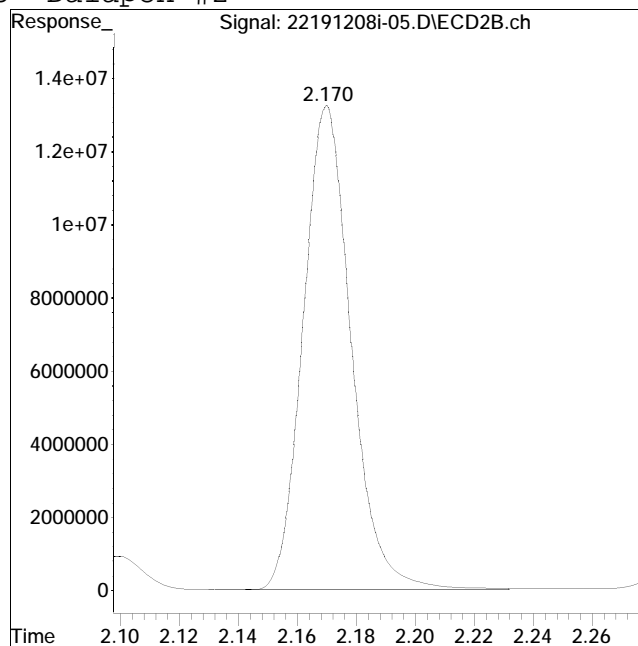
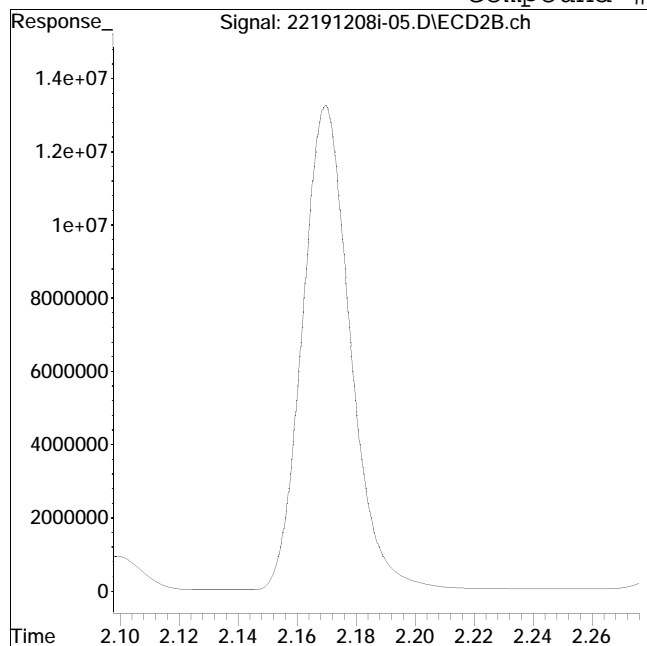
Manual Peak Response = 154265057 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-05.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:43 pm Instrument : Pest22
Sample : iL4herb9502,42e,, Quant Date : 12/9/2019 10:30 am

Compound #15: Dalapon #2



Original Peak Response = 0

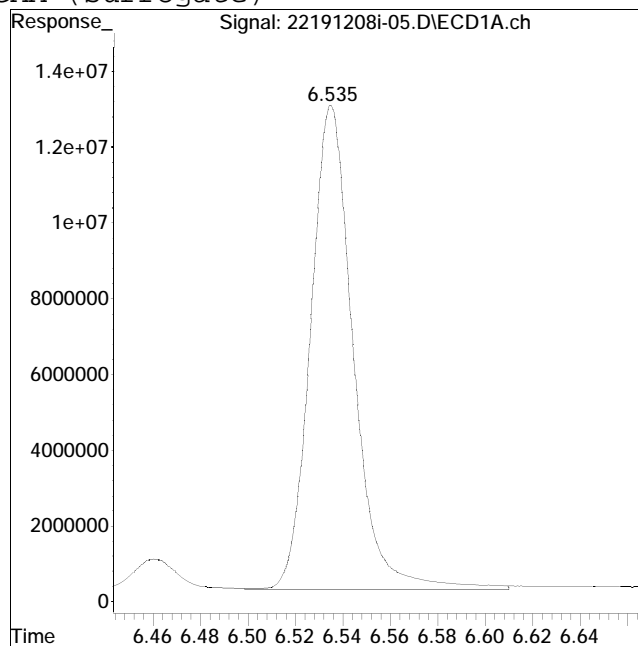
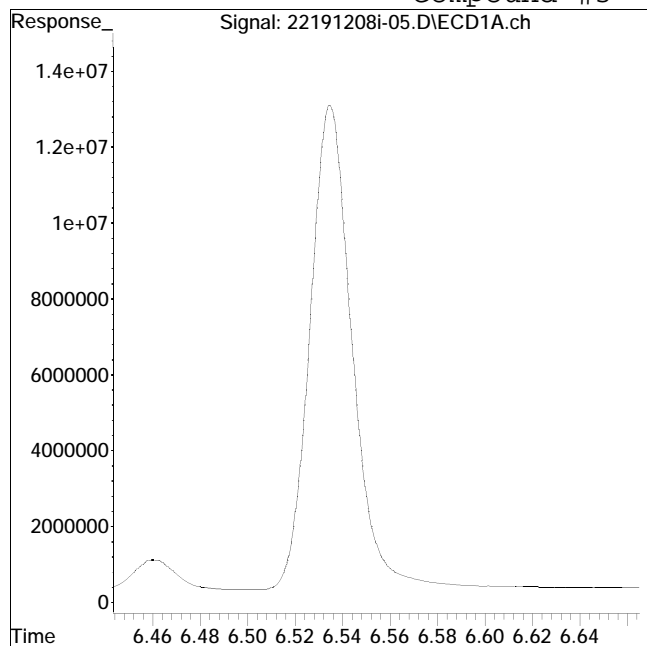
Manual Peak Response = 150135299 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-05.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:43 pm Instrument : Pest22
Sample : iL4herb9502,42e,, Quant Date : 12/9/2019 10:30 am

Compound #3: DCAA (surrogate)



Original Peak Response = 0

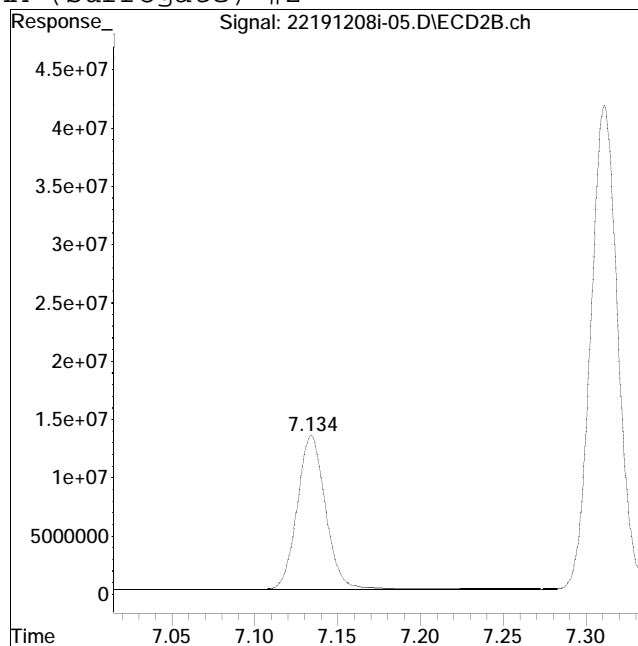
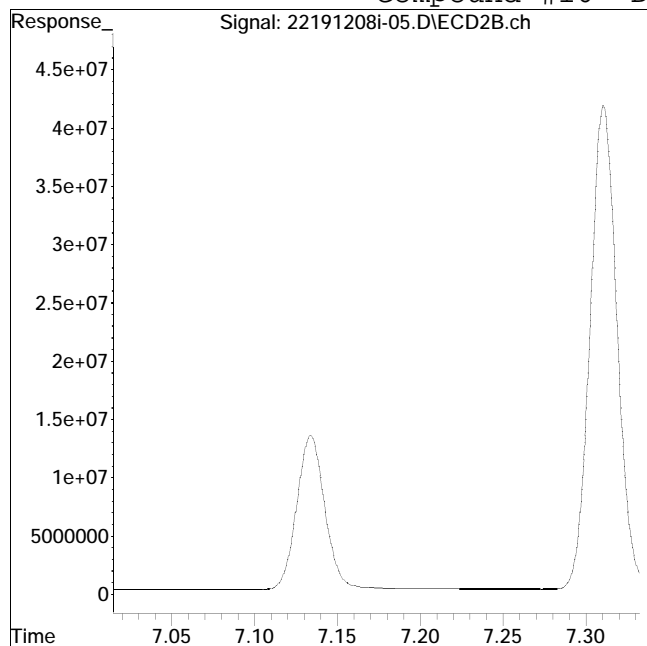
Manual Peak Response = 160712874 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-05.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:43 pm Instrument : Pest22
Sample : iL4herb9502,42e,, Quant Date : 12/9/2019 10:30 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 0

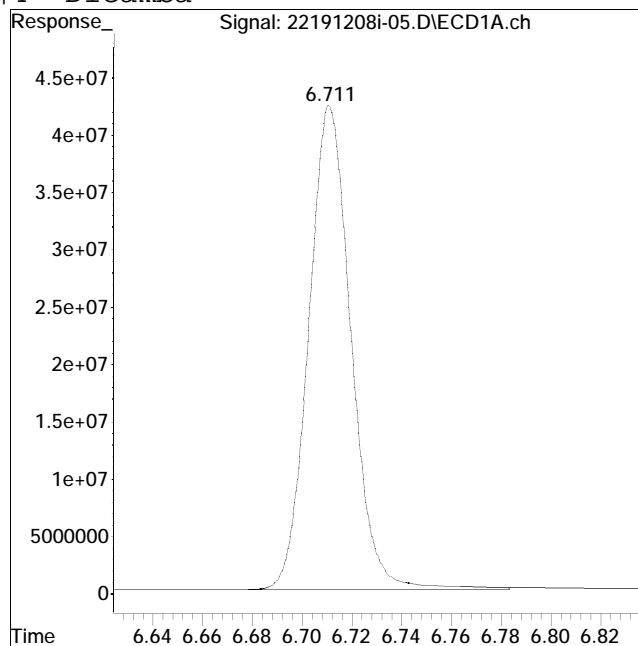
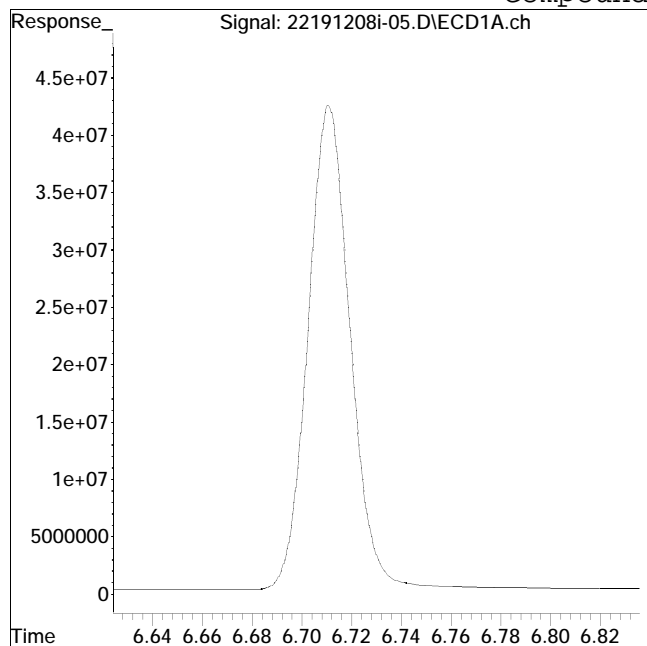
Manual Peak Response = 162305616 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-05.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:43 pm Instrument : Pest22
Sample : iL4herb9502,42e,, Quant Date : 12/9/2019 10:30 am

Compound #4: Dicamba



Original Peak Response = 0

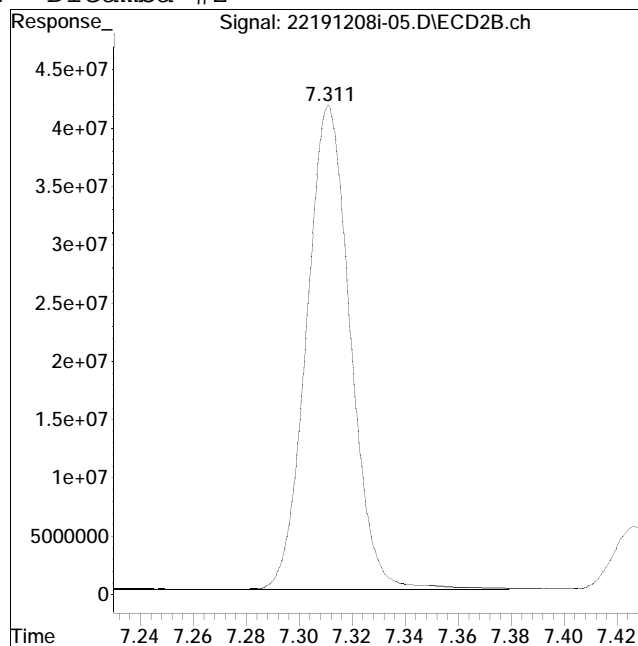
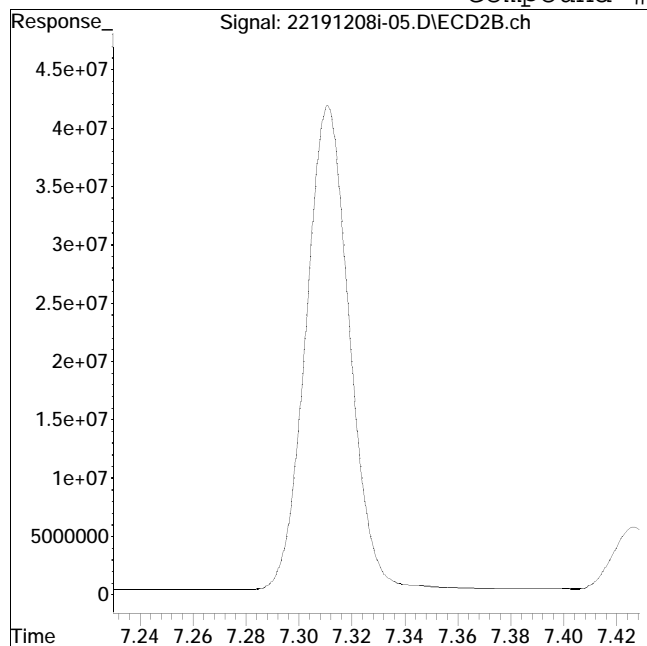
Manual Peak Response = 500201650 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-05.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:43 pm Instrument : Pest22
Sample : iL4herb9502,42e,, Quant Date : 12/9/2019 10:30 am

Compound #17: Dicamba #2



Original Peak Response = 0

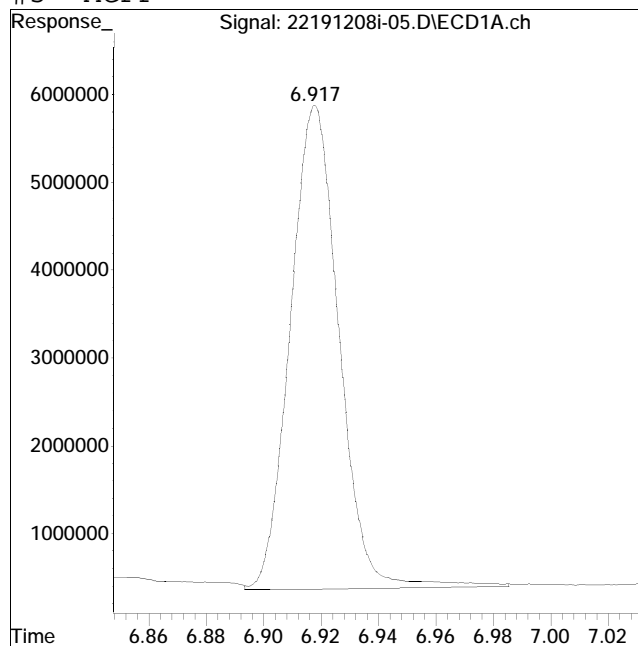
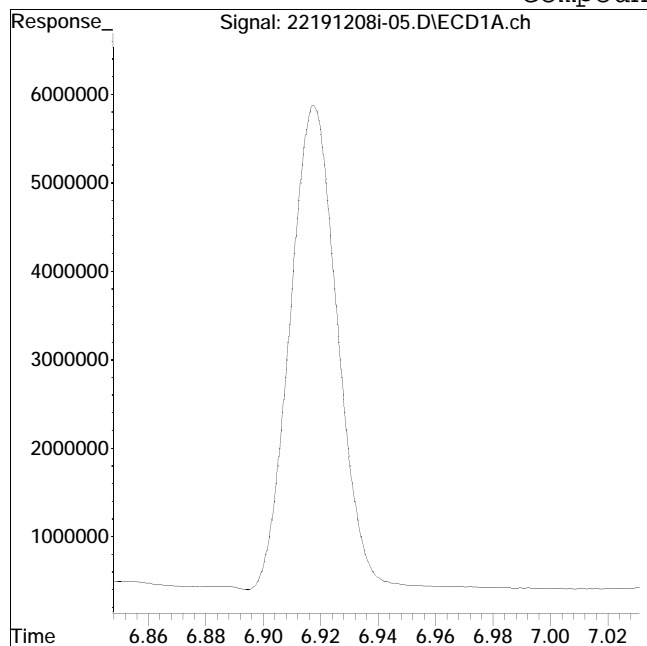
Manual Peak Response = 477178675 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-05.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:43 pm Instrument : Pest22
Sample : iL4herb9502,42e,, Quant Date : 12/9/2019 10:30 am

Compound #5: MCPP



Original Peak Response = 0

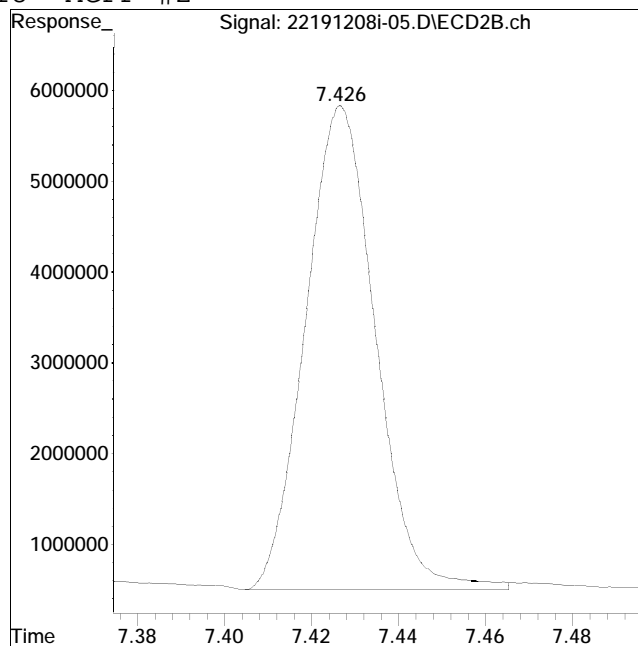
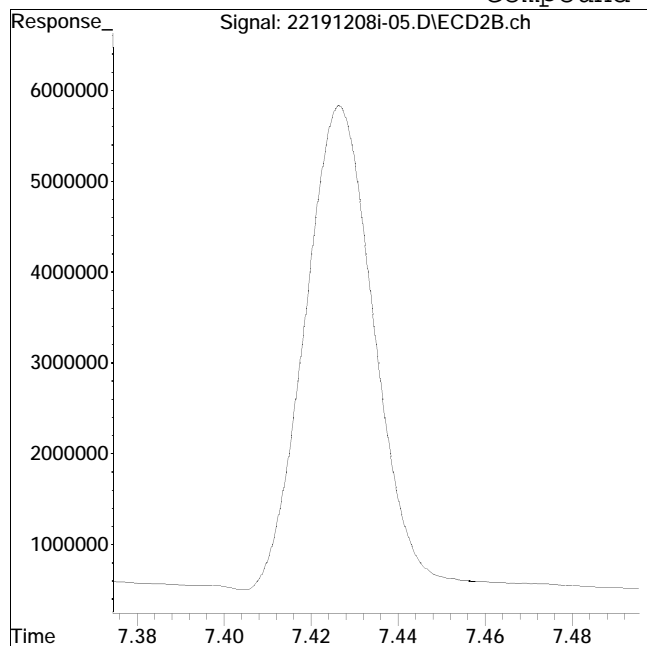
Manual Peak Response = 64980177 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-05.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:43 pm Instrument : Pest22
Sample : iL4herb9502,42e,, Quant Date : 12/9/2019 10:30 am

Compound #18: MCPP #2



Original Peak Response = 0

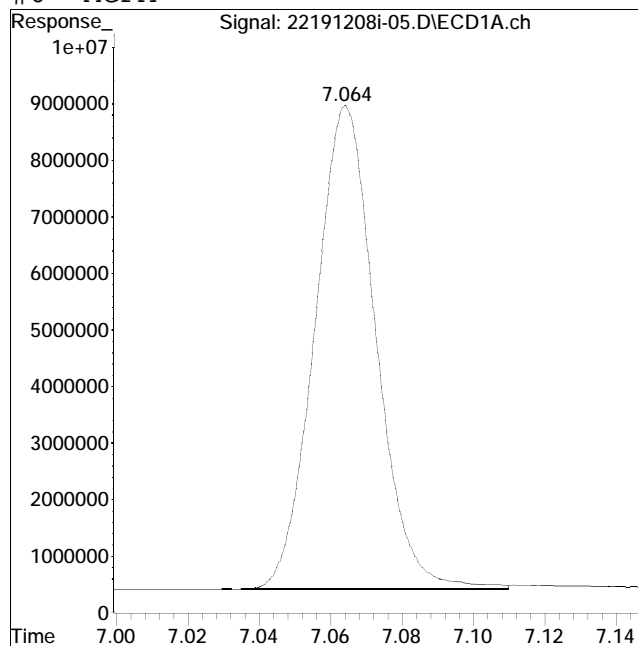
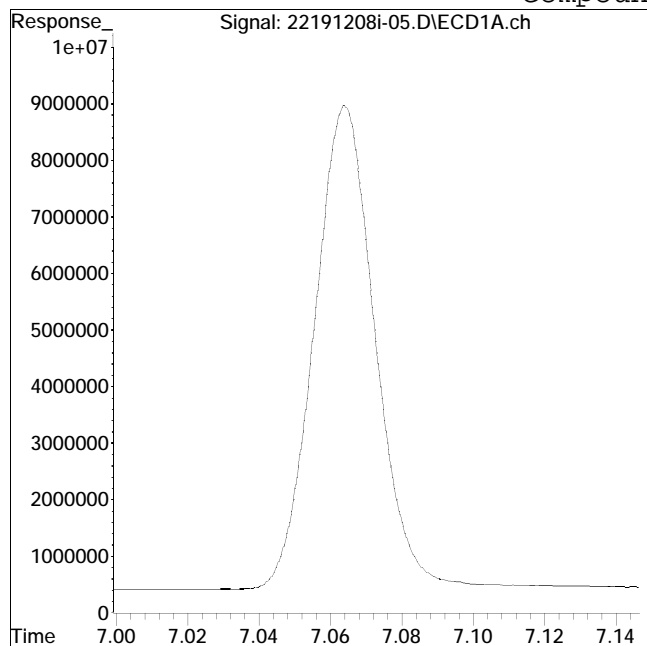
Manual Peak Response = 59562016 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-05.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:43 pm Instrument : Pest22
Sample : iL4herb9502,42e,, Quant Date : 12/9/2019 10:30 am

Compound #6: MCPA



Original Peak Response = 0

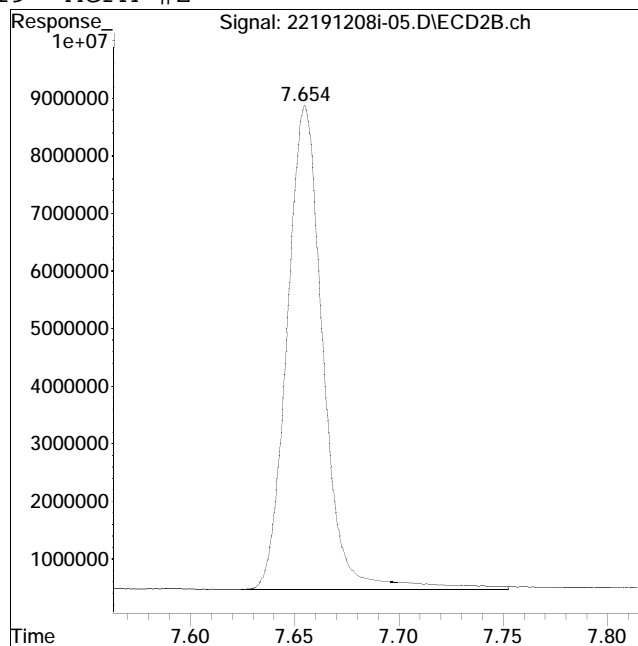
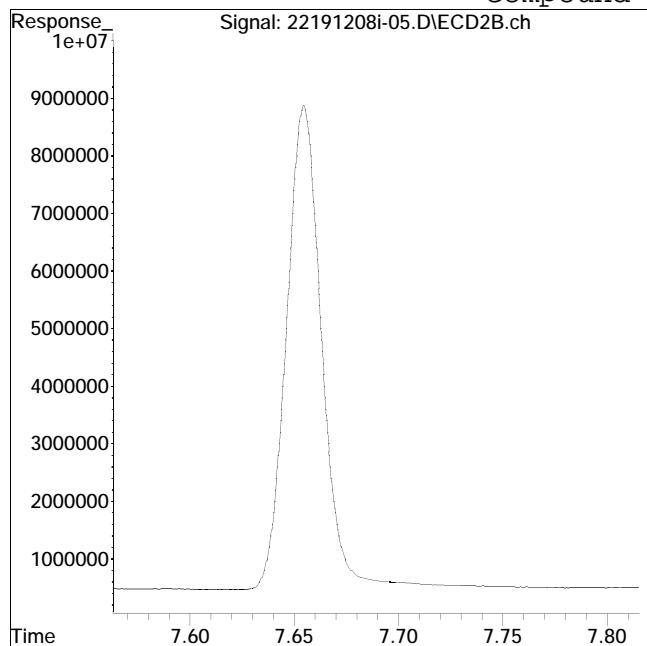
Manual Peak Response = 101386448 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-05.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:43 pm Instrument : Pest22
Sample : iL4herb9502,42e,, Quant Date : 12/9/2019 10:30 am

Compound #19: MCPA #2



Original Peak Response = 0

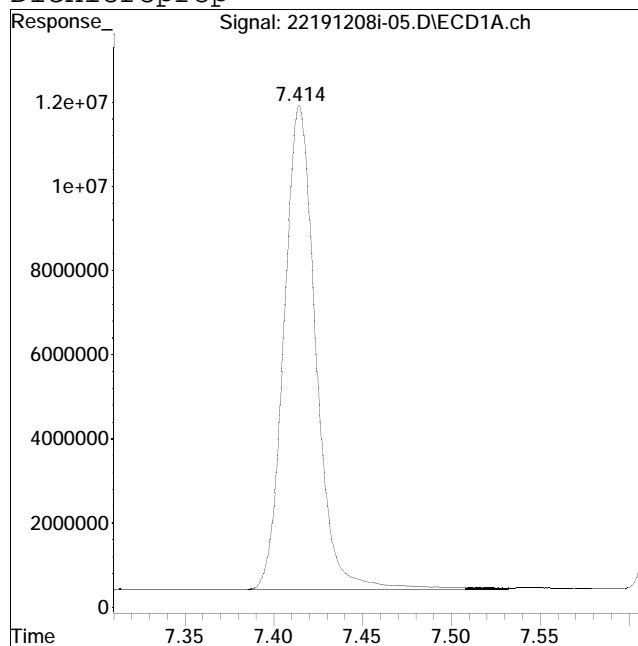
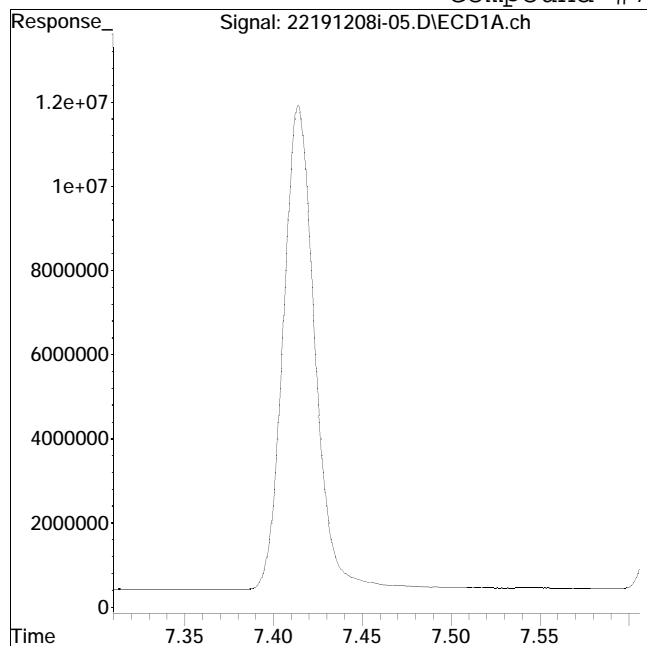
Manual Peak Response = 101317795 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-05.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:43 pm Instrument : Pest22
Sample : iL4herb9502,42e,, Quant Date : 12/9/2019 10:30 am

Compound #7: Dichloroprop



Original Peak Response = 0

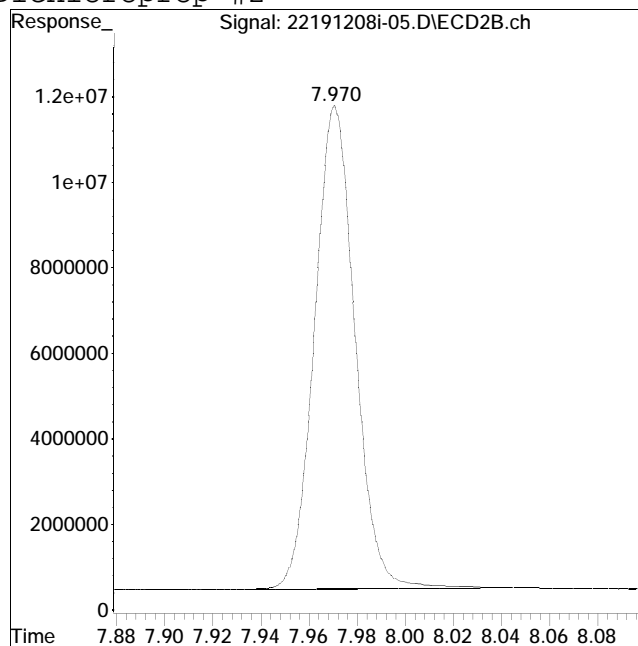
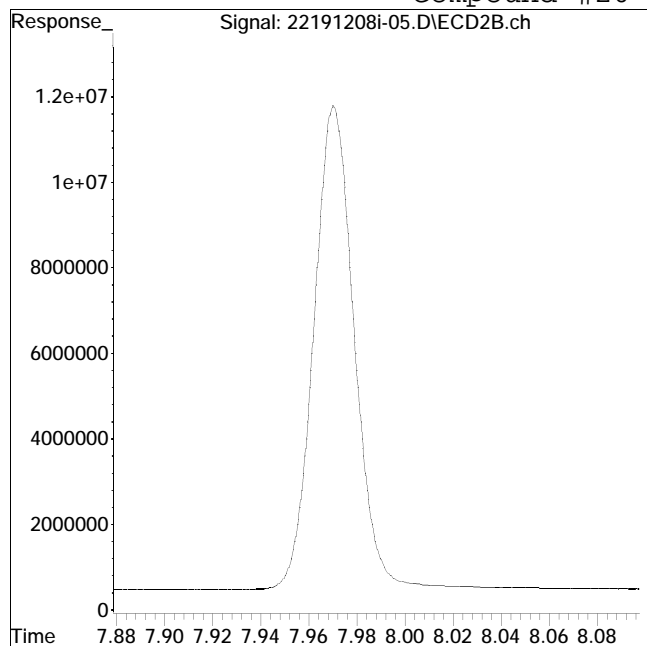
Manual Peak Response = 143445635 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-05.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:43 pm Instrument : Pest22
Sample : iL4herb9502,42e,, Quant Date : 12/9/2019 10:30 am

Compound #20: Dichloroprop #2



Original Peak Response = 0

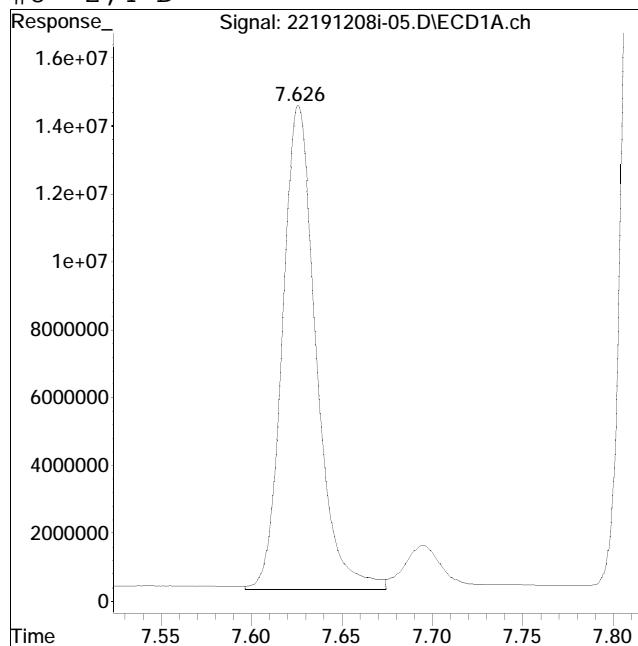
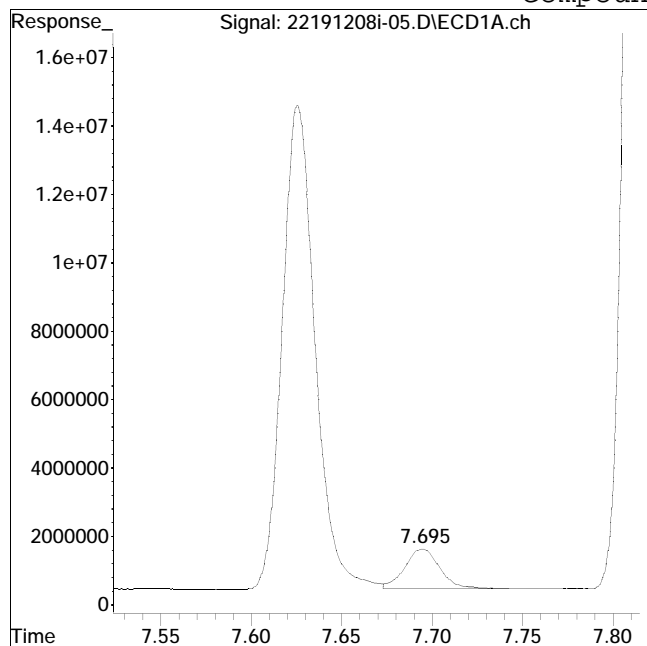
Manual Peak Response = 131818513 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-05.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:43 pm Instrument : Pest22
Sample : iL4herb9502,42e,, Quant Date : 12/9/2019 10:30 am

Compound #8: 2,4-D



Original Peak Response = 15425496

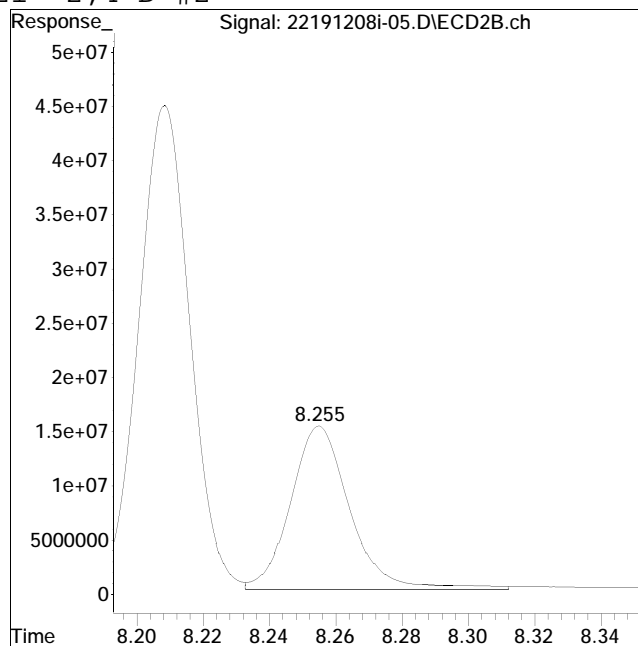
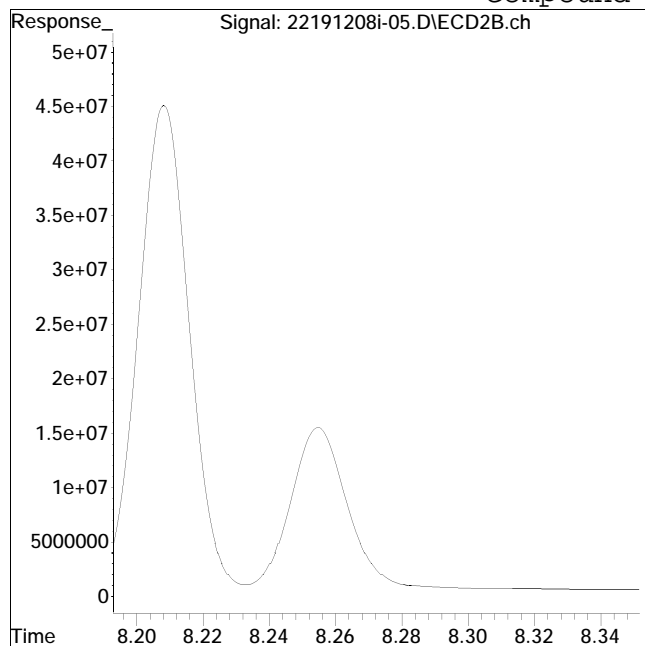
Manual Peak Response = 184238869 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-05.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:43 pm Instrument : Pest22
Sample : iL4herb9502,42e,, Quant Date : 12/9/2019 10:30 am

Compound #21: 2,4-D #2



Original Peak Response = 0

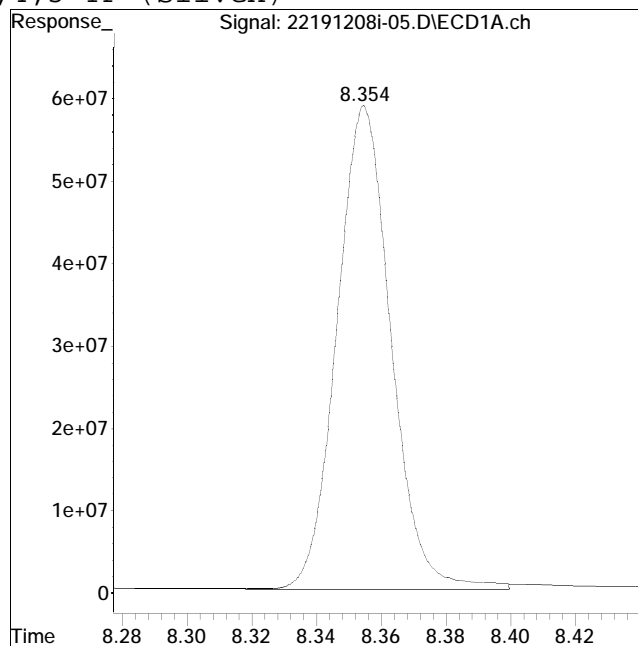
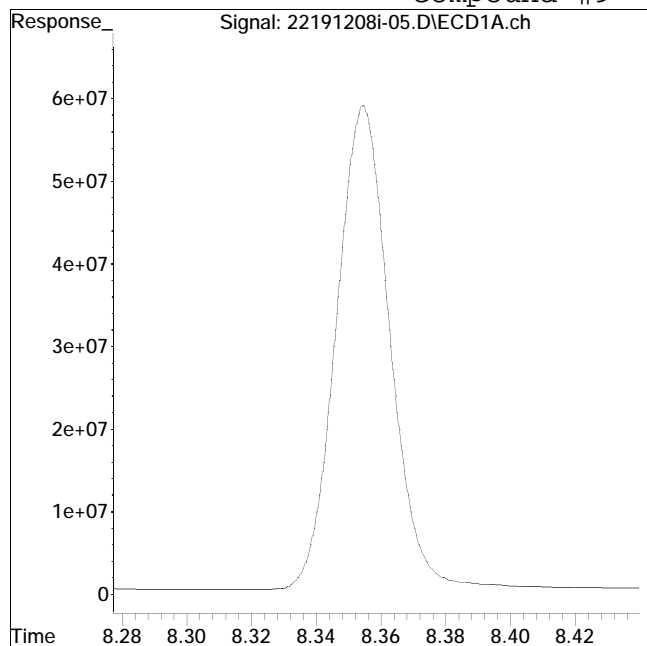
Manual Peak Response = 190039566 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-05.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:43 pm Instrument : Pest22
Sample : iL4herb9502,42e,, Quant Date : 12/9/2019 10:30 am

Compound #9: 2,4,5-TP (Silvex)



Original Peak Response = 0

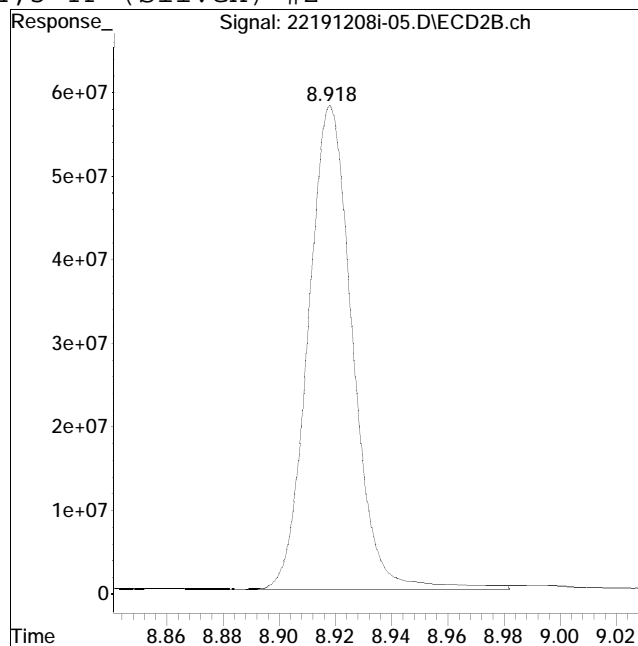
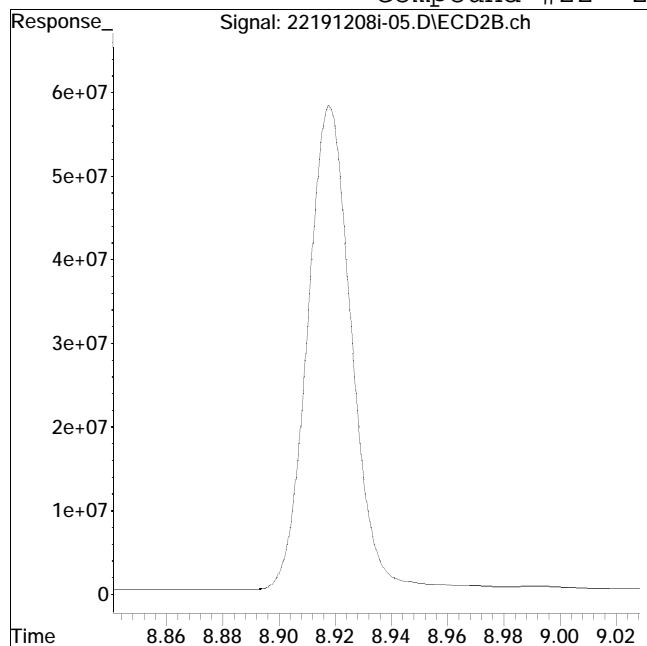
Manual Peak Response = 684699474 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-05.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:43 pm Instrument : Pest22
Sample : iL4herb9502,42e,, Quant Date : 12/9/2019 10:30 am

Compound #22: 2,4,5-TP (Silvex) #2



Original Peak Response = 0

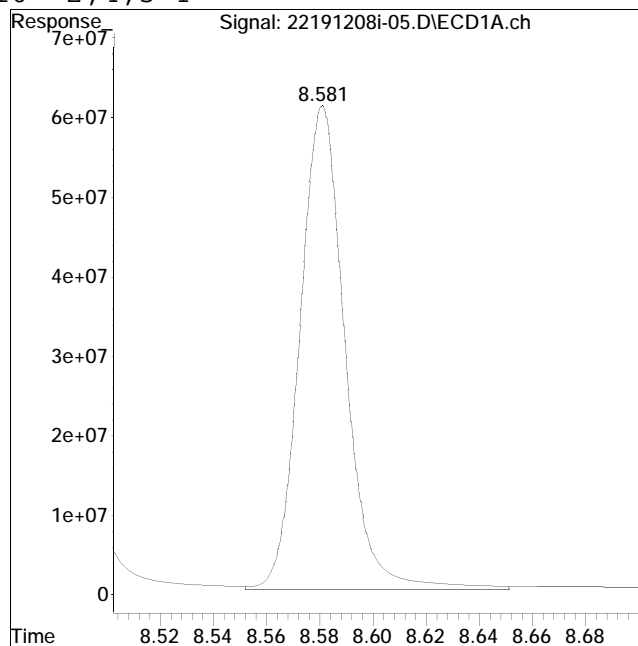
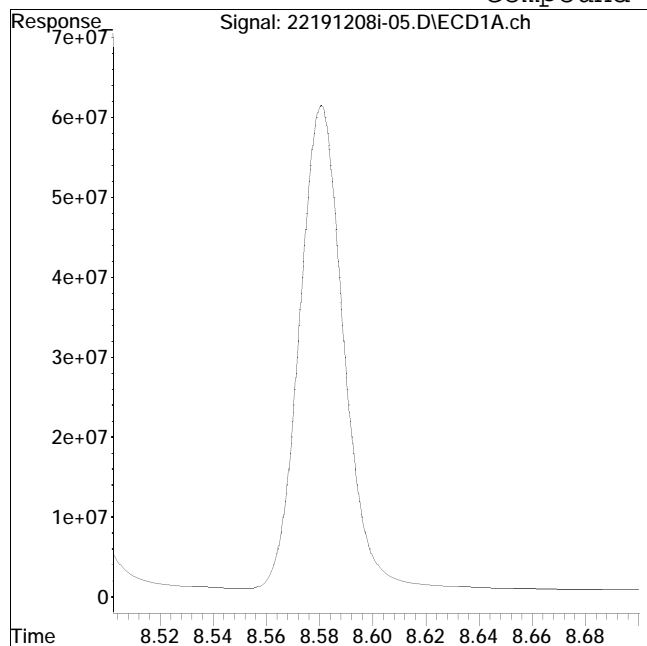
Manual Peak Response = 634972464 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-05.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:43 pm Instrument : Pest22
Sample : iL4herb9502,42e,, Quant Date : 12/9/2019 10:30 am

Compound #10: 2,4,5-T



Original Peak Response = 0

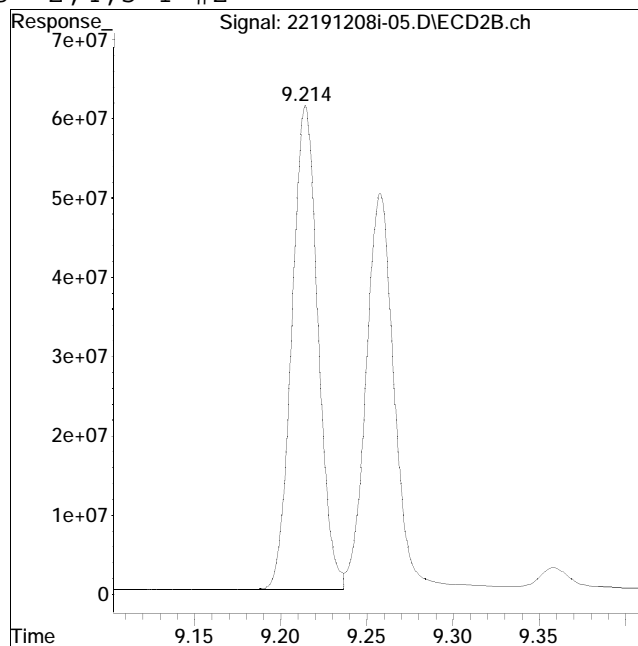
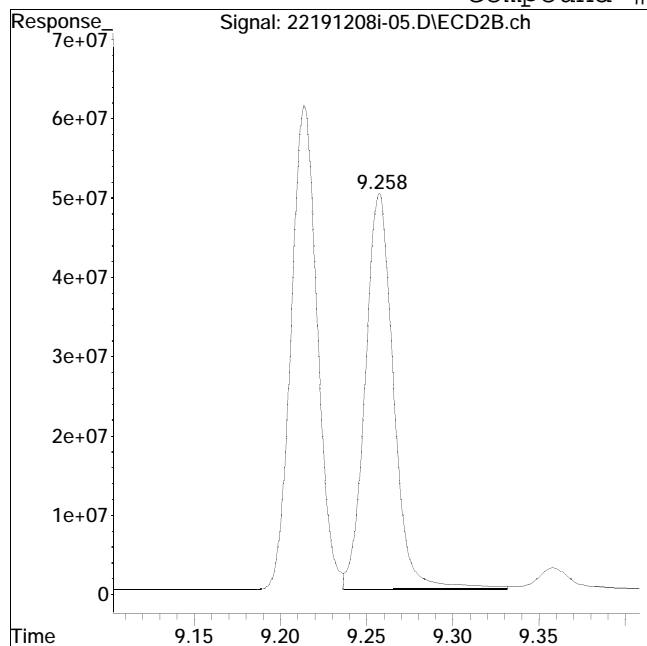
Manual Peak Response = 722843891 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-05.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:43 pm Instrument : Pest22
Sample : iL4herb9502,42e,, Quant Date : 12/9/2019 10:30 am

Compound #23: 2,4,5-T #2



Original Peak Response = 571180736

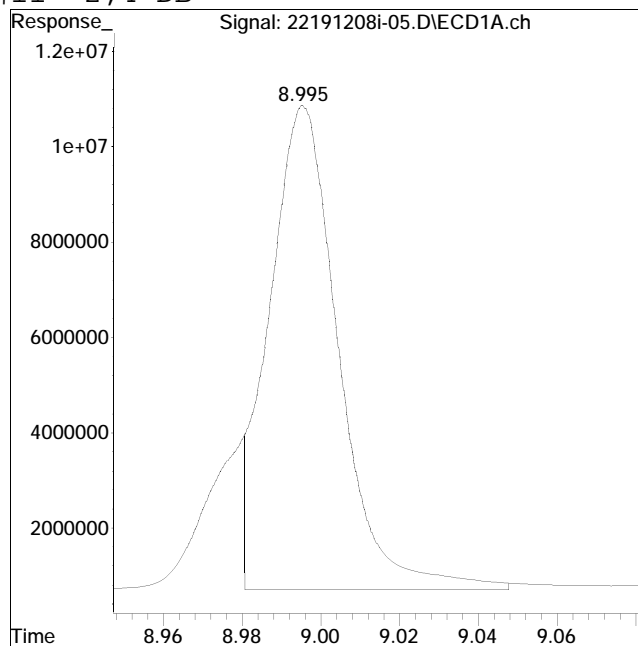
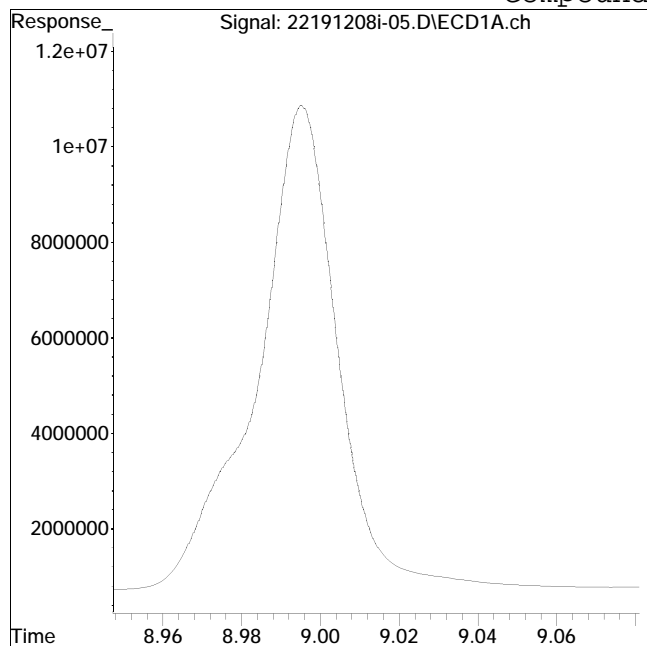
Manual Peak Response = 643659437 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-05.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:43 pm Instrument : Pest22
Sample : iL4herb9502,42e,, Quant Date : 12/9/2019 10:30 am

Compound #11: 2,4-DB



Original Peak Response = 0

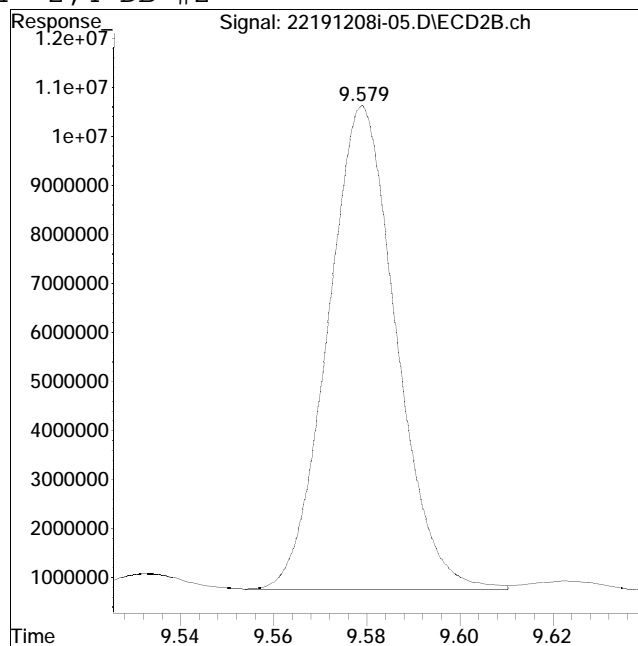
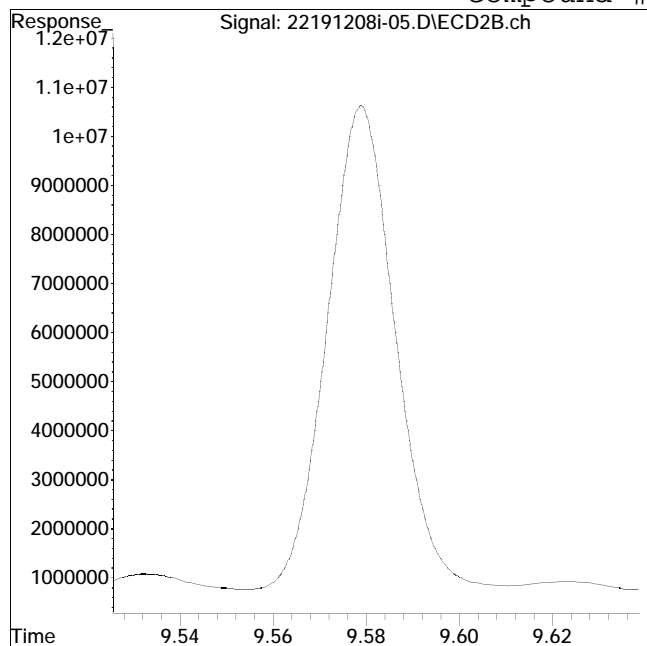
Manual Peak Response = 125081797 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-05.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:43 pm Instrument : Pest22
Sample : iL4herb9502,42e,, Quant Date : 12/9/2019 10:30 am

Compound #24: 2,4-DB #2



Original Peak Response = 0

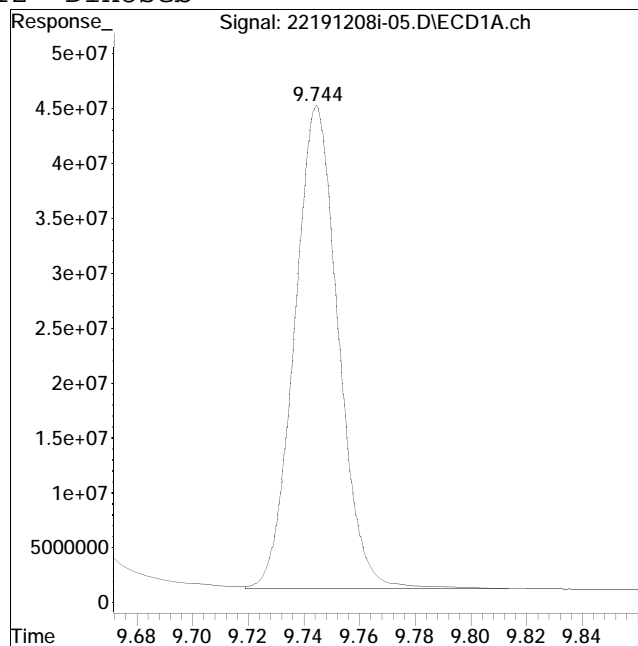
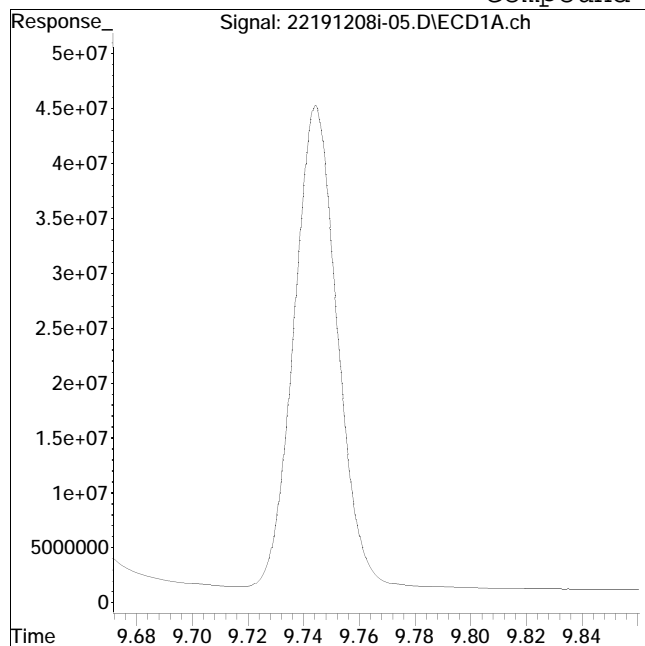
Manual Peak Response = 100744588 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-05.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:43 pm Instrument : Pest22
Sample : iL4herb9502,42e,, Quant Date : 12/9/2019 10:30 am

Compound #12: Dinoseb



Original Peak Response = 0

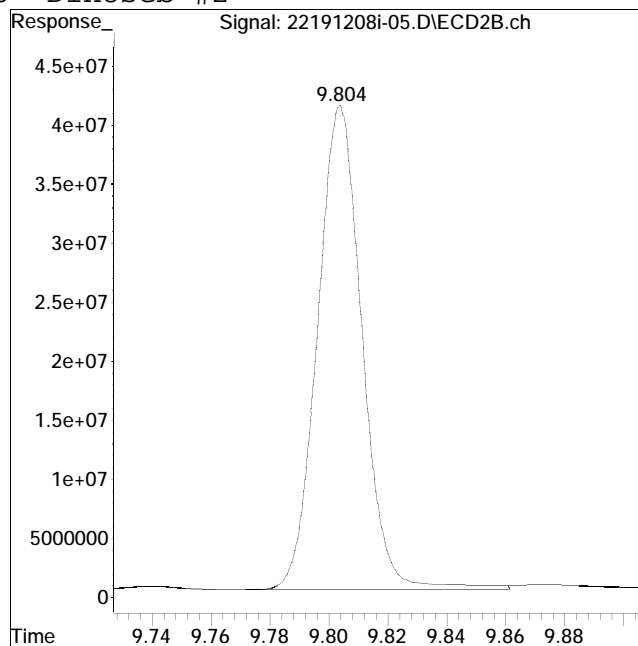
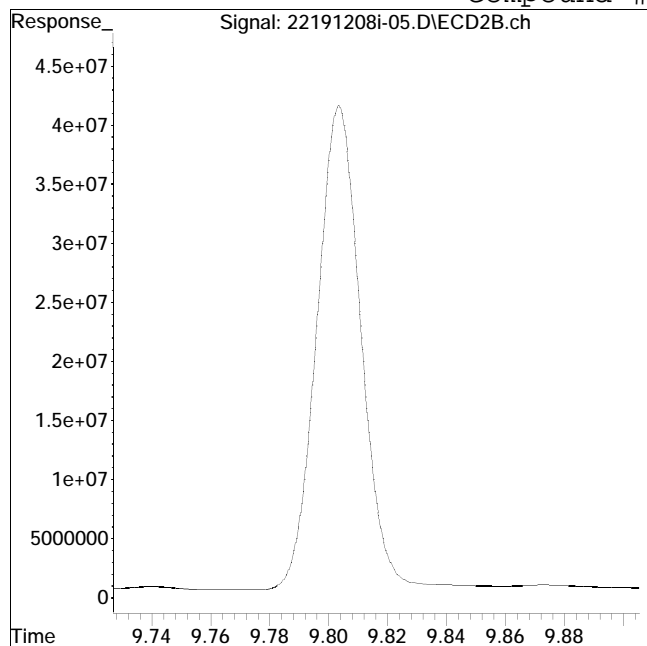
Manual Peak Response = 483306031 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-05.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 7:43 pm Instrument : Pest22
Sample : iL4herb9502,42e,, Quant Date : 12/9/2019 10:30 am

Compound #25: Dinoseb #2



Original Peak Response = 0

Manual Peak Response = 432097215 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest22\data\2019\191208ical\
 Data File : 22191208i-06.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Dec 2019 08:02 pm
 Operator : pest22:dgm
 Sample : iL5herb9503,42e,,
 Misc : wgl318475,ical (Sig #1); ical (Sig #2)
 ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 09 12:03:38 2019
 Quant Method : I:\Pest22\data\2019\191208ical\Herb22_19_12_08_mgL_ICAL.m
 Quant Title : herb
 QLast Update : Mon Dec 09 10:52:03 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Internal Standards							
1) i	4,4'-DFOB	8.079	8.208	558.2E6	473.3E6	0.250	0.250
System Monitoring Compounds							
3) s	DCAA (surrog	6.534	7.133	303.1E6	308.8E6	0.880	0.909M4
	Spiked Amount	0.500	Range 30 - 150	Recovery	=	176.00%#	181.80%#
Target Compounds							
2) t	Dalapon	2.085	2.169	317.1E6	303.4E6	0.928M4	0.935
4) t	Dicamba	6.710	7.311	1049.9E6	995.0E6	0.979M4	0.996M4
5) t	MCPPP	6.918	7.427	131.0E6	124.2E6	94.062M4	99.652M4
6) t	MCPA	7.065	7.656	202.5E6	198.4E6	92.183M4	92.570M4
7) t	Dichloroprop	7.414	7.970	287.8E6	267.5E6	0.875M4	0.960M4
8) t	2,4-D	7.624	8.254	368.2E6	371.9E6	0.932M4	0.935
9) t	2,4,5-TP (Si	8.354	8.918	1405.9E6	1298.6E6	0.968M4	0.988M4
10) t	2,4,5-T	8.579	9.214	1489.7E6	1331.1E6	0.972M4	0.999
11) t	2,4-DB	8.994	9.579	254.6E6	205.6E6	0.970M4	0.996M4
12) t	Dinoseb	9.743	9.804	994.7E6	864.8E6	0.969M4	0.967

SemiQuant Compounds - Not Calibrated on this Instrument

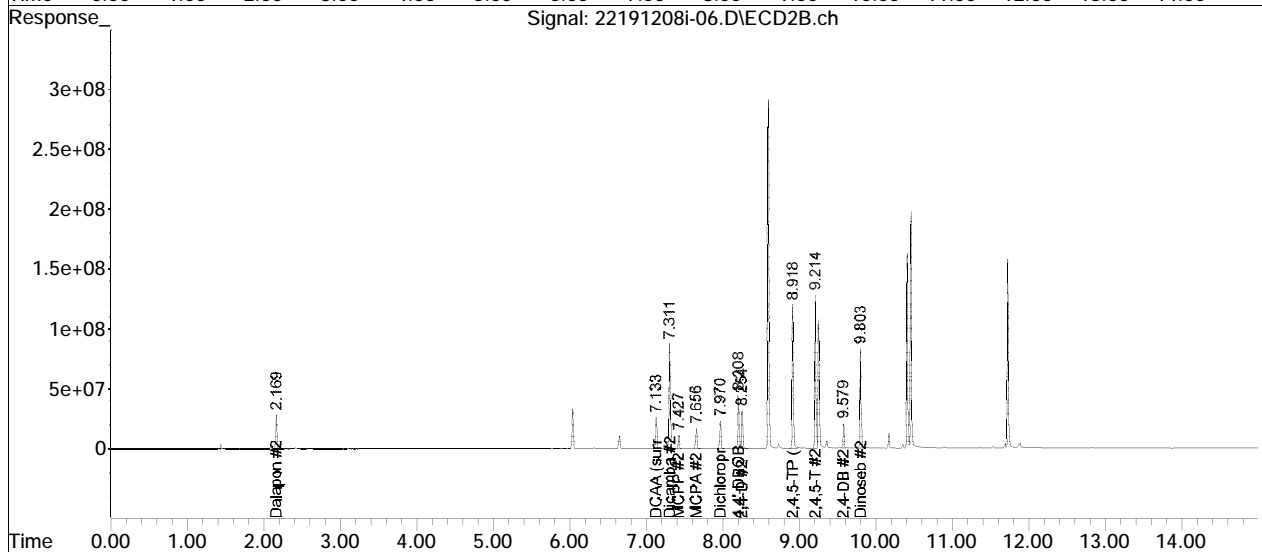
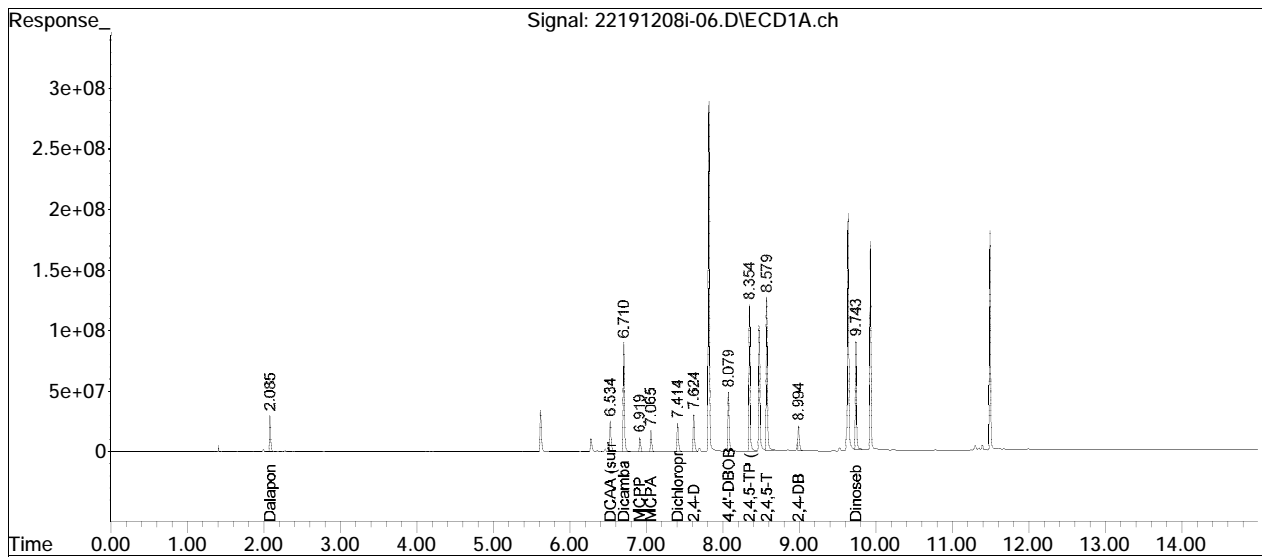
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coeluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest22\data\2019\191208ical\
Data File : 22191208i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Dec 2019 08:02 pm
Operator : pest22:dgm
Sample : iL5herb9503,42e,,
Misc : wg1318475,ical (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 09 12:03:38 2019
Quant Method : I:\Pest22\data\2019\191208ical\Herb22_19_12_08_mgL_ICAL.m
Quant Title : herb
QLast Update : Mon Dec 09 10:52:03 2019
Response via : Initial Calibration
Integrator: ChemStation

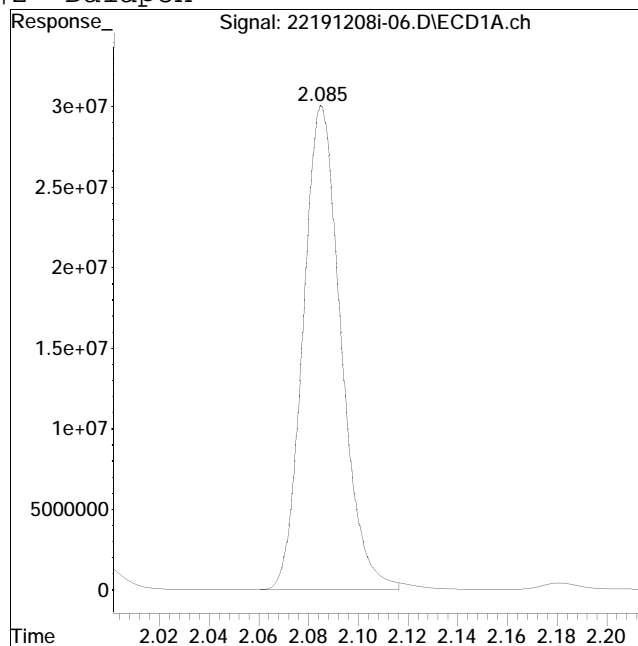
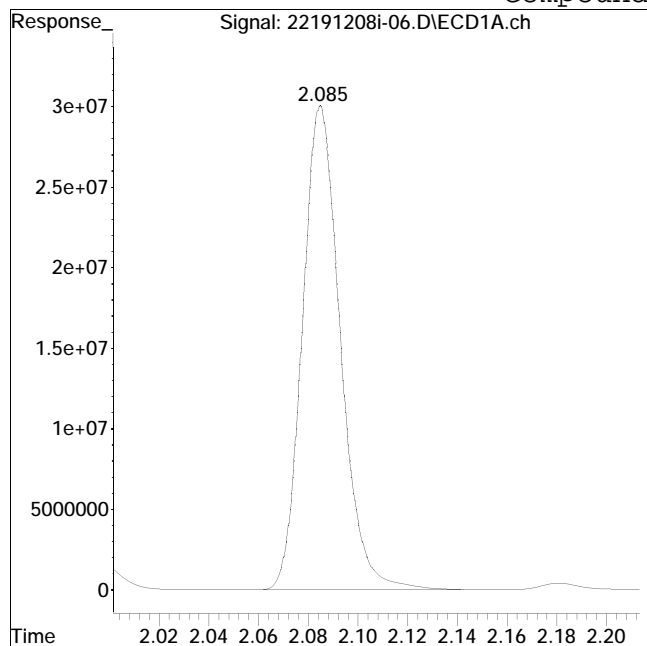
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-06.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:02 pm Instrument : Pest22
Sample : iL5herb9503,42e,, Quant Date : 12/9/2019 10:52 am

Compound #2: Dalapon



Original Peak Response = 318551077

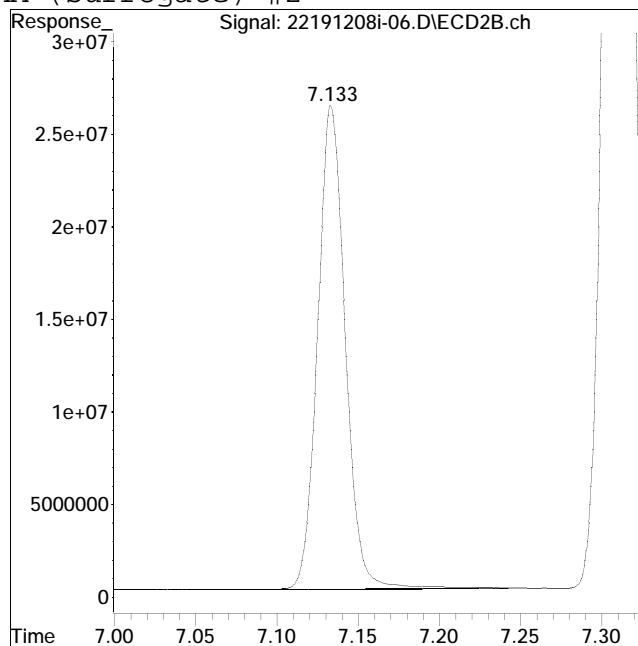
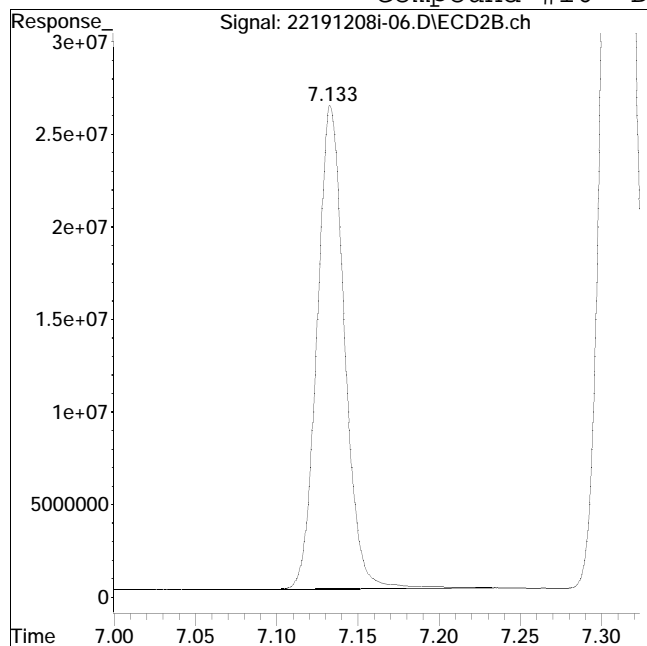
Manual Peak Response = 317069897 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-06.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:02 pm Instrument : Pest22
Sample : iL5herb9503,42e,, Quant Date : 12/9/2019 10:52 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 307068901

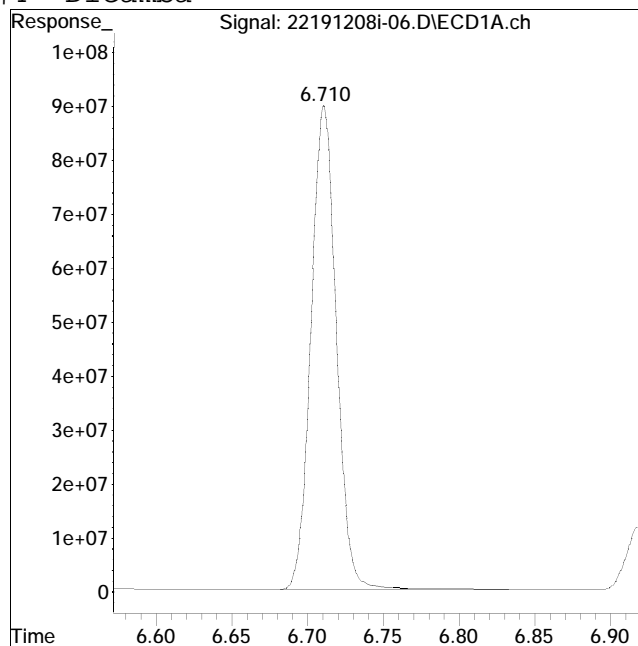
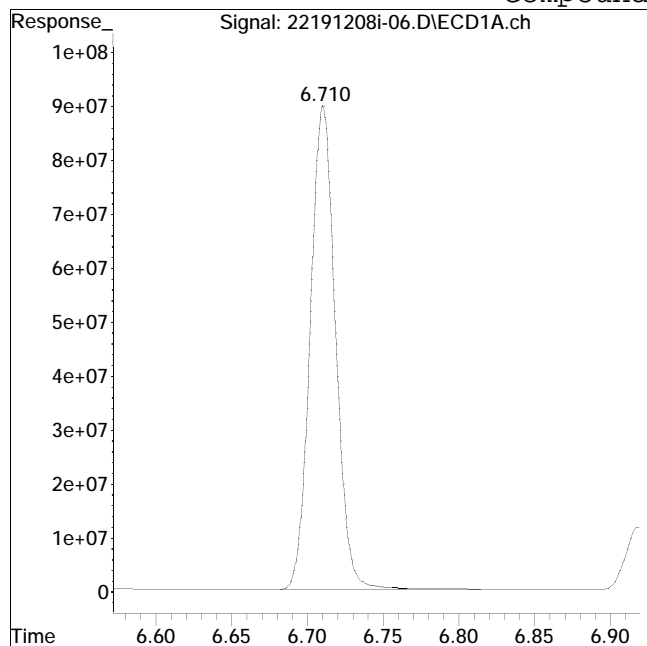
Manual Peak Response = 308848828 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-06.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:02 pm Instrument : Pest22
Sample : iL5herb9503,42e,, Quant Date : 12/9/2019 10:52 am

Compound #4: Dicamba



Original Peak Response = 1042328056

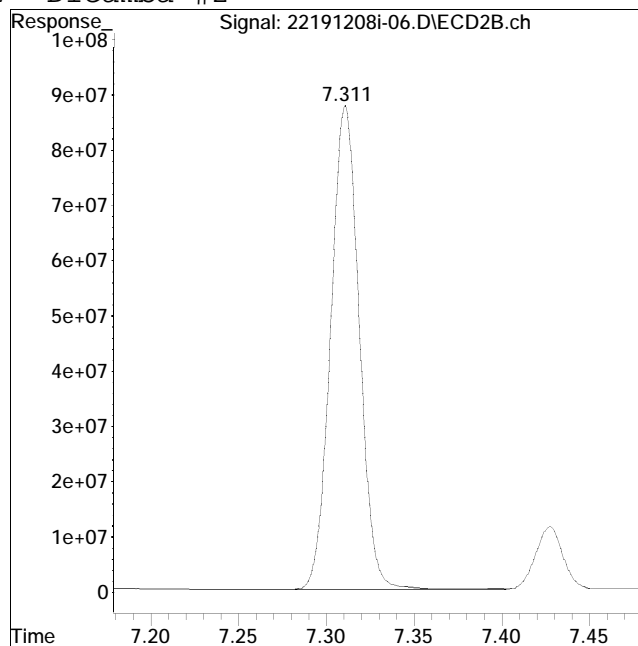
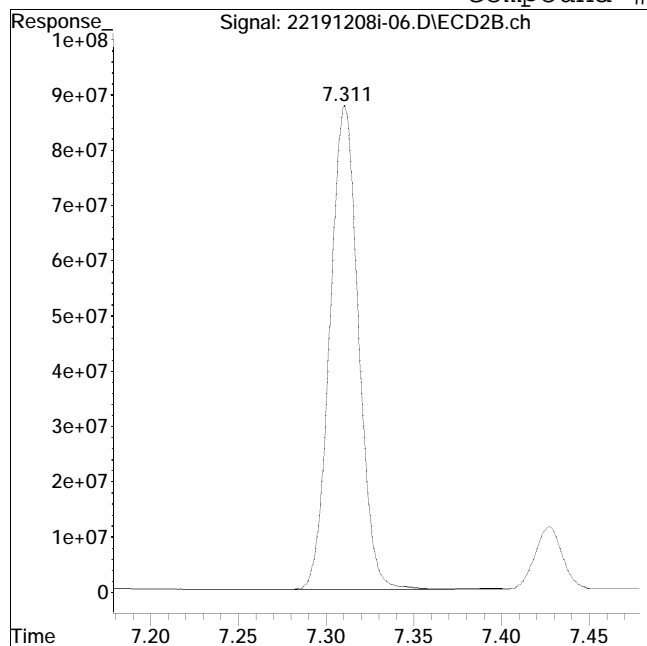
Manual Peak Response = 1049933411 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-06.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:02 pm Instrument : Pest22
Sample : iL5herb9503,42e,, Quant Date : 12/9/2019 10:52 am

Compound #17: Dicamba #2



Original Peak Response = 991328452

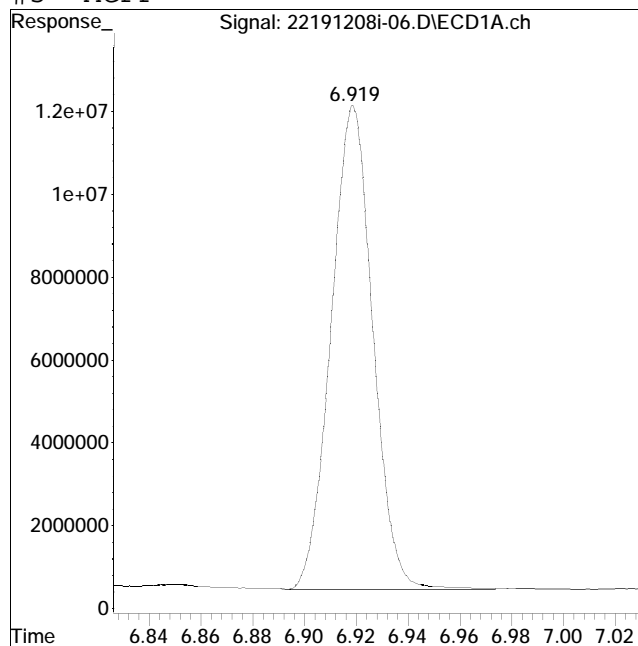
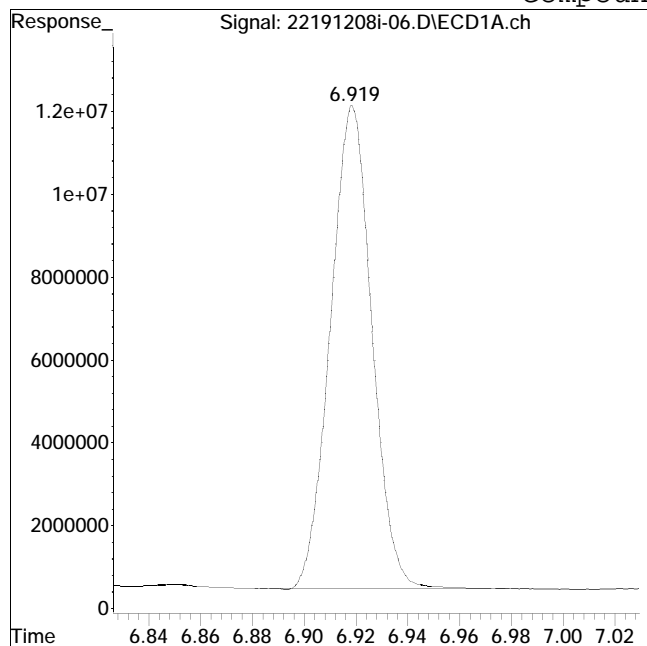
Manual Peak Response = 994988432 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-06.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:02 pm Instrument : Pest22
Sample : iL5herb9503,42e,, Quant Date : 12/9/2019 10:52 am

Compound #5: MCP



Original Peak Response = 129499397

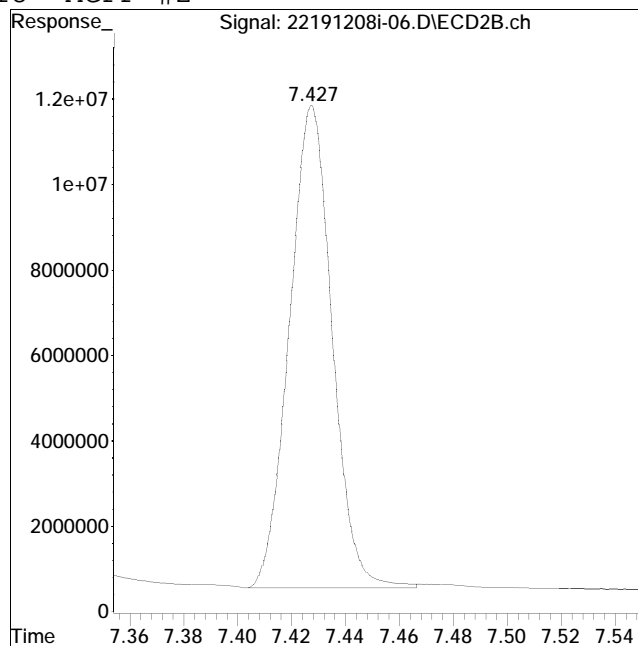
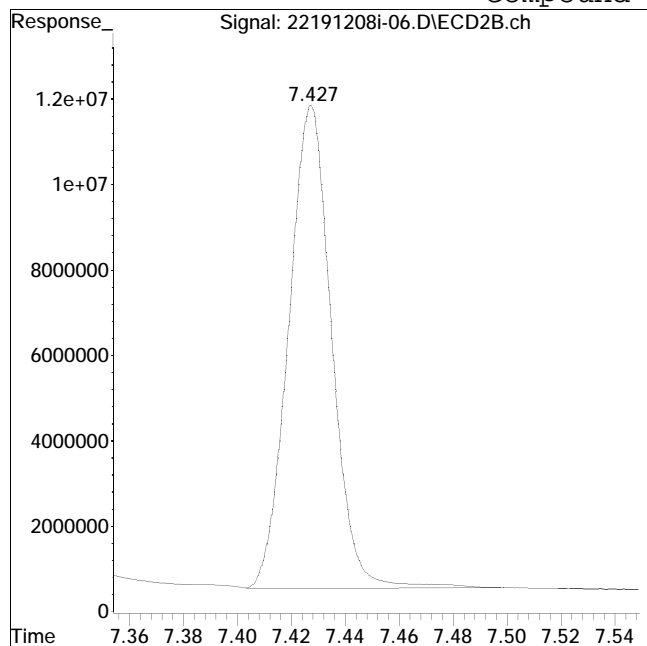
Manual Peak Response = 131004954 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-06.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:02 pm Instrument : Pest22
Sample : iL5herb9503,42e,, Quant Date : 12/9/2019 10:52 am

Compound #18: MCPP #2



Original Peak Response = 125670566

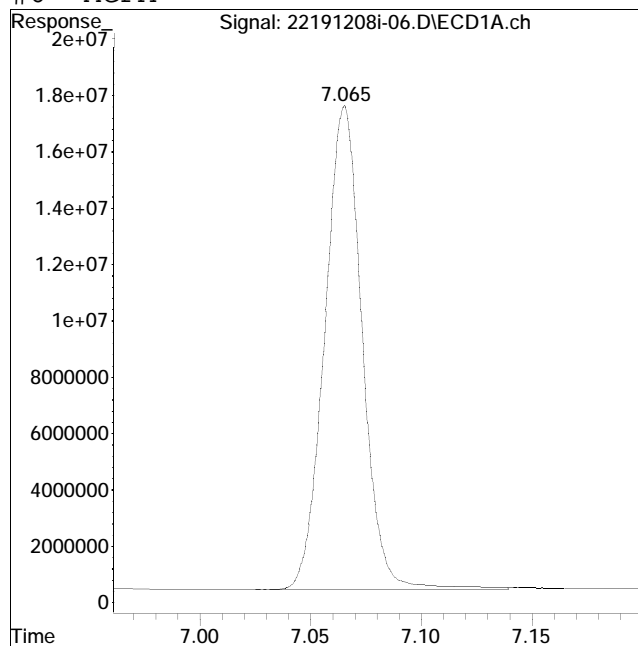
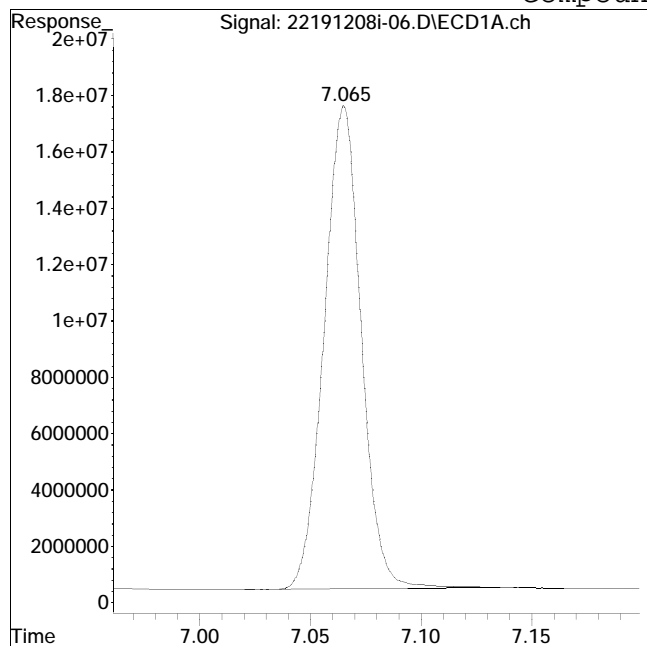
Manual Peak Response = 124199222 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-06.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:02 pm Instrument : Pest22
Sample : iL5herb9503,42e,, Quant Date : 12/9/2019 10:52 am

Compound #6: MCPA



Original Peak Response = 199749190

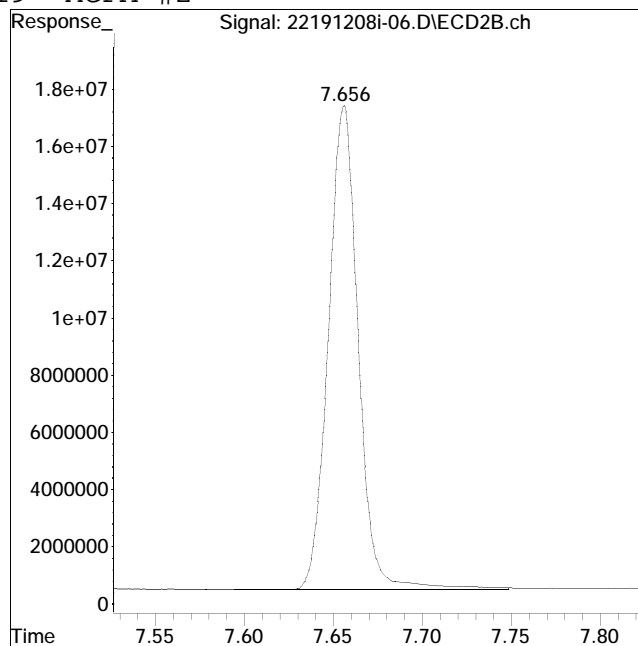
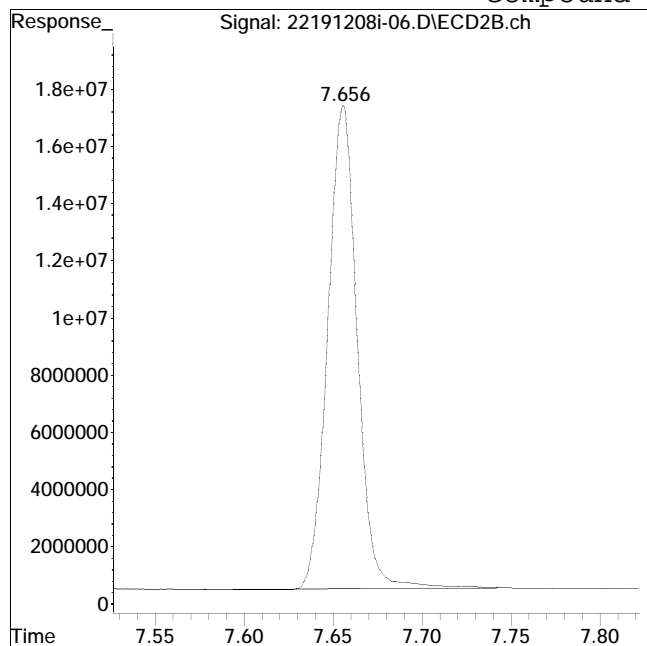
Manual Peak Response = 202473208 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-06.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:02 pm Instrument : Pest22
Sample : iL5herb9503,42e,, Quant Date : 12/9/2019 10:52 am

Compound #19: MCPA #2



Original Peak Response = 194416684

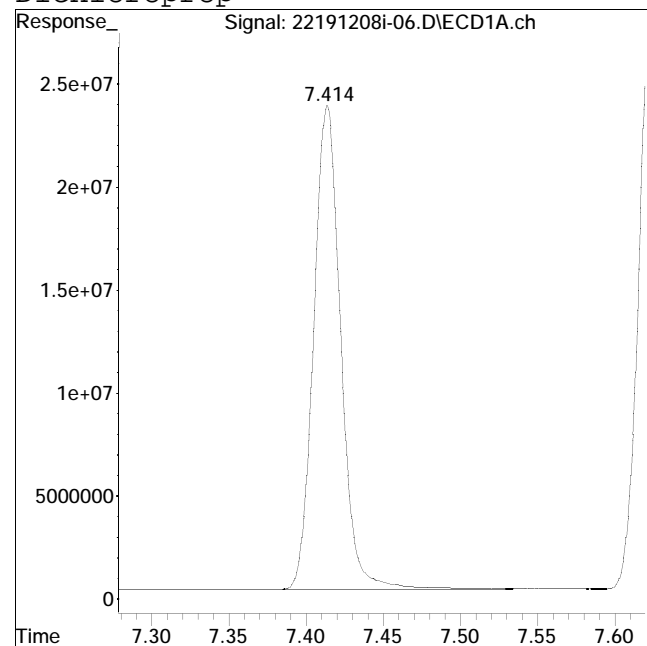
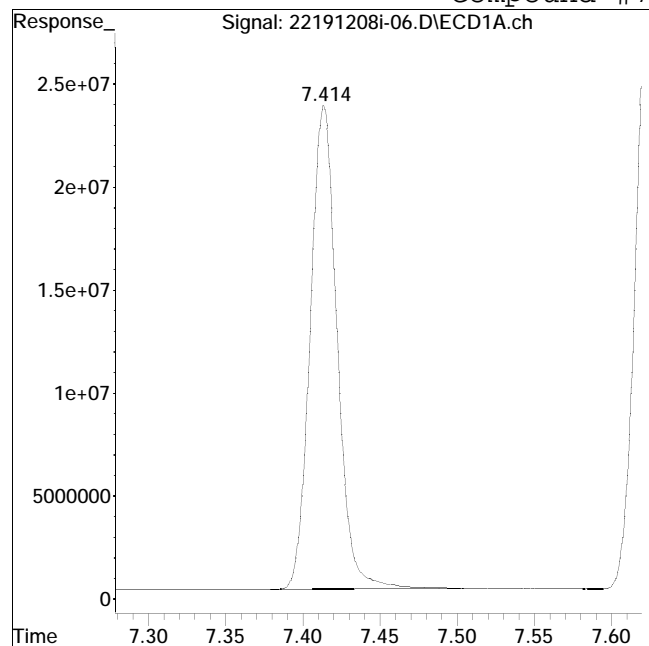
Manual Peak Response = 198365468 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-06.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:02 pm Instrument : Pest22
Sample : iL5herb9503,42e,, Quant Date : 12/9/2019 10:52 am

Compound #7: Dichloroprop



Original Peak Response = 284303574

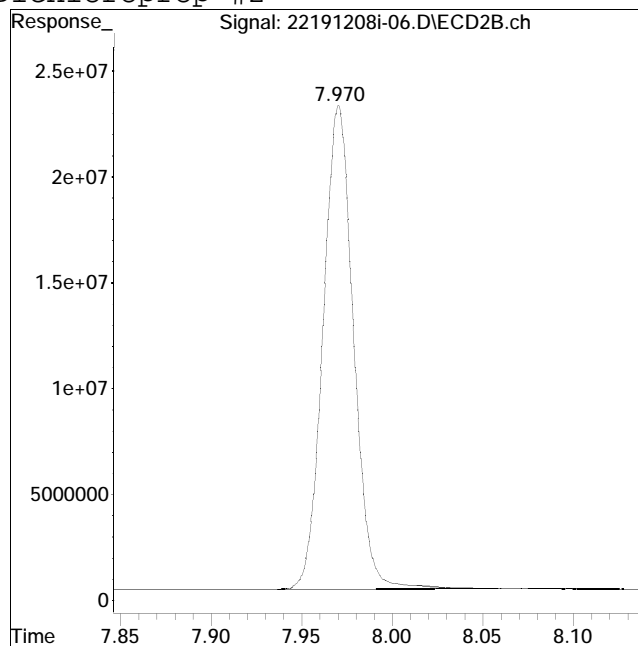
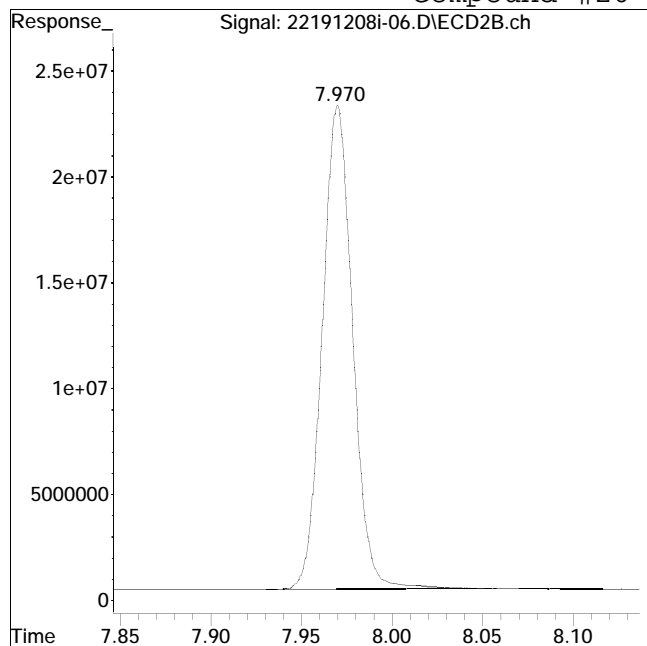
Manual Peak Response = 287800979 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-06.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:02 pm Instrument : Pest22
Sample : iL5herb9503,42e,, Quant Date : 12/9/2019 10:52 am

Compound #20: Dichloroprop #2



Original Peak Response = 266546167

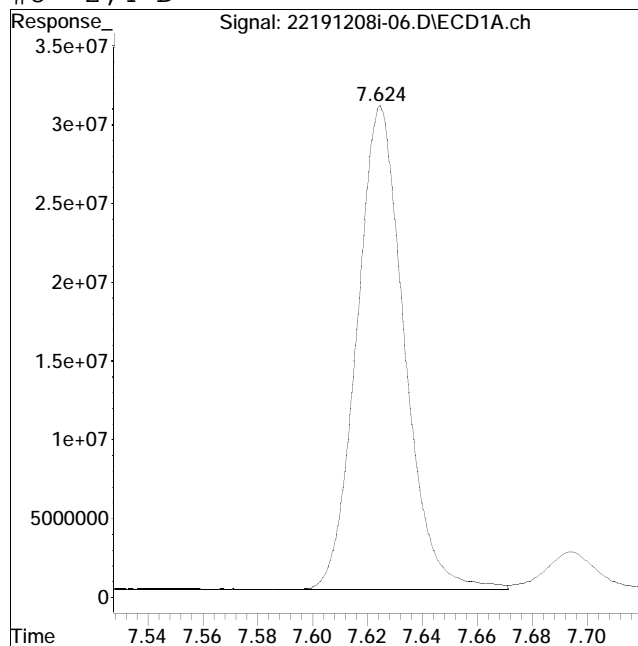
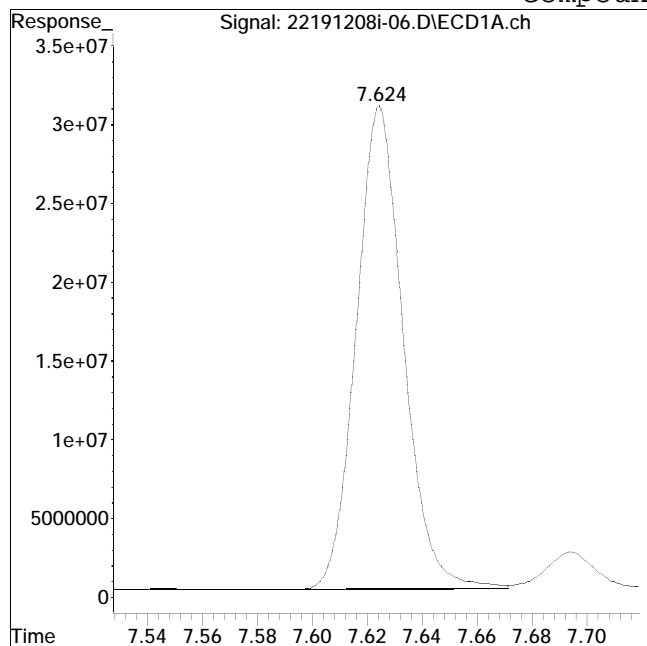
Manual Peak Response = 267460653 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-06.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:02 pm Instrument : Pest22
Sample : iL5herb9503,42e,, Quant Date : 12/9/2019 10:52 am

Compound #8: 2,4-D



Original Peak Response = 365325850

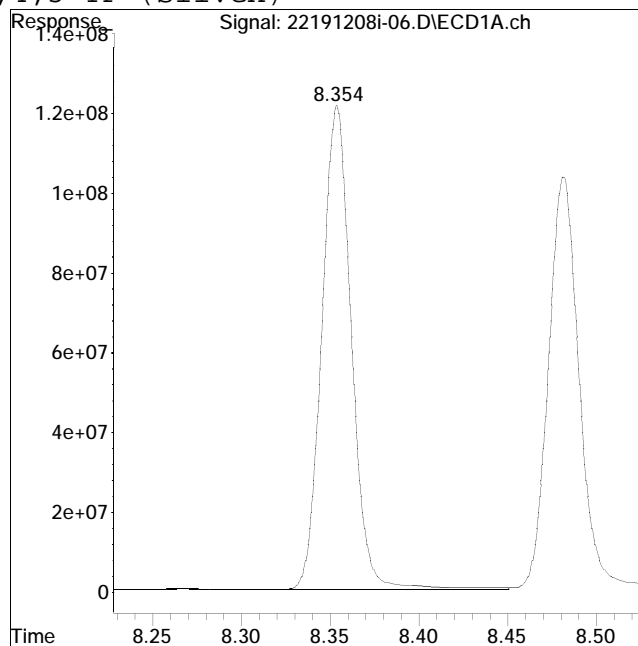
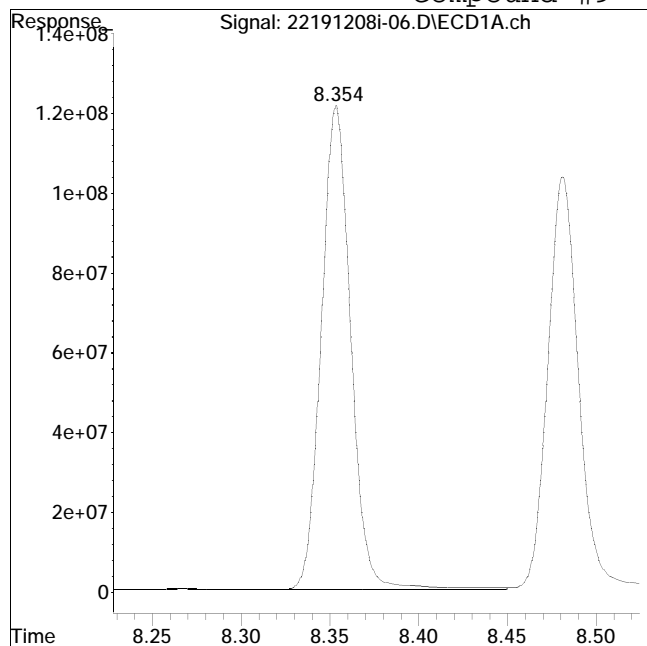
Manual Peak Response = 368207296 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-06.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:02 pm Instrument : Pest22
Sample : iL5herb9503,42e,, Quant Date : 12/9/2019 10:52 am

Compound #9: 2,4,5-TP (Silvex)



Original Peak Response = 1397423733

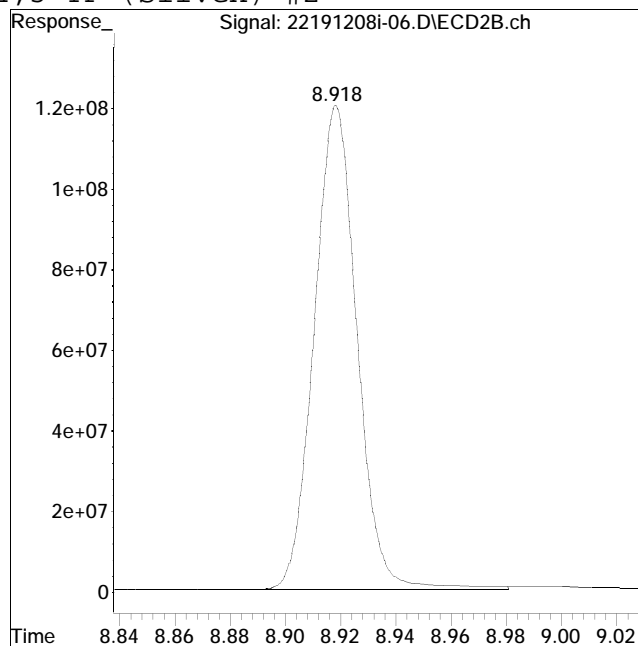
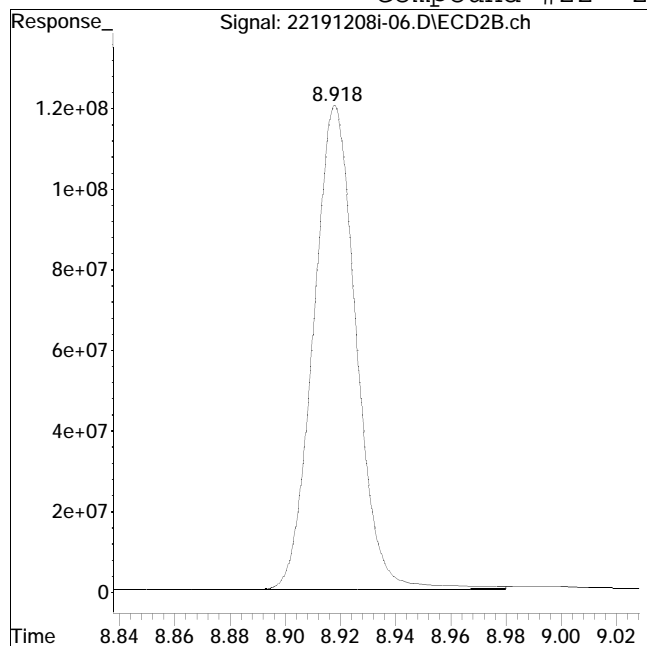
Manual Peak Response = 1405850394 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-06.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:02 pm Instrument : Pest22
Sample : iL5herb9503,42e,, Quant Date : 12/9/2019 10:52 am

Compound #22: 2,4,5-TP (Silvex) #2



Original Peak Response = 1292564581

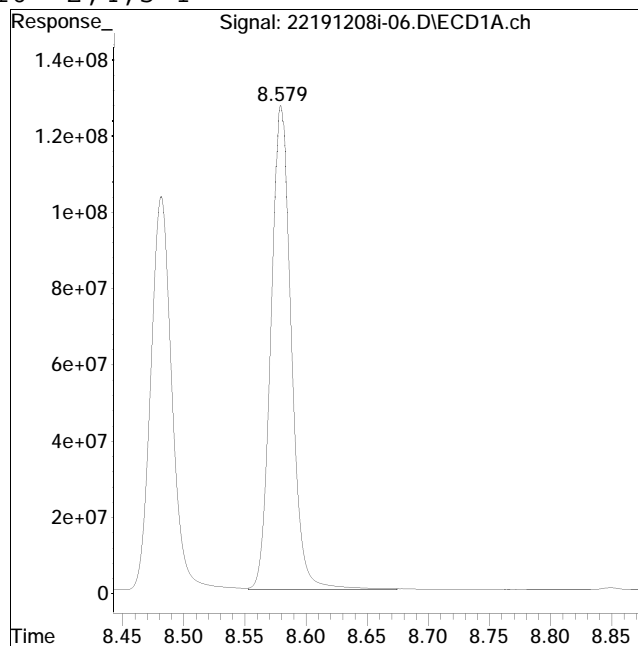
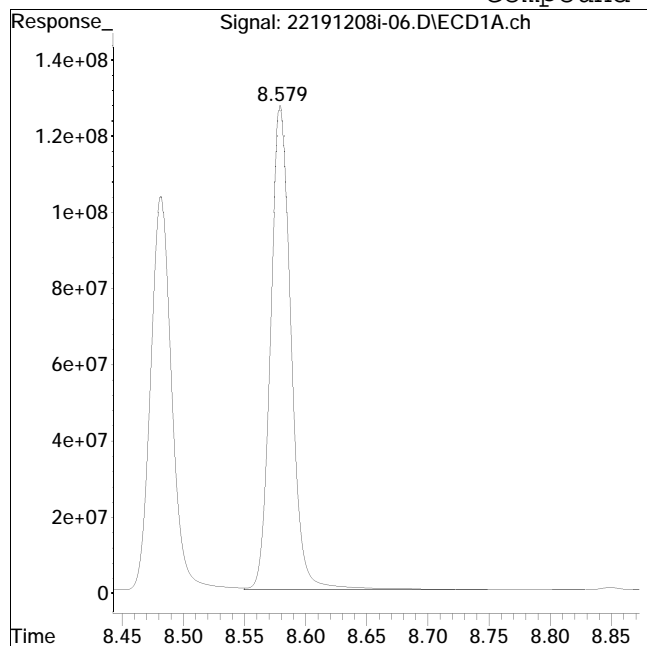
Manual Peak Response = 1298612781 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-06.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:02 pm Instrument : Pest22
Sample : iL5herb9503,42e,, Quant Date : 12/9/2019 10:52 am

Compound #10: 2,4,5-T



Original Peak Response = 1499447252

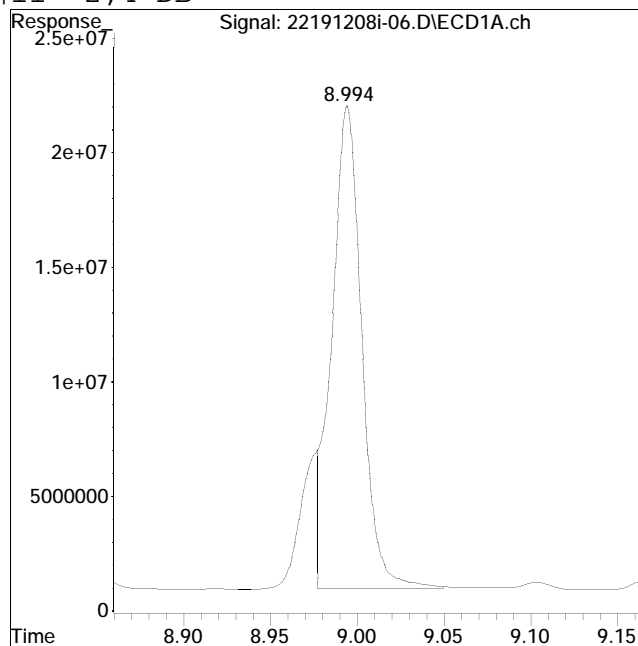
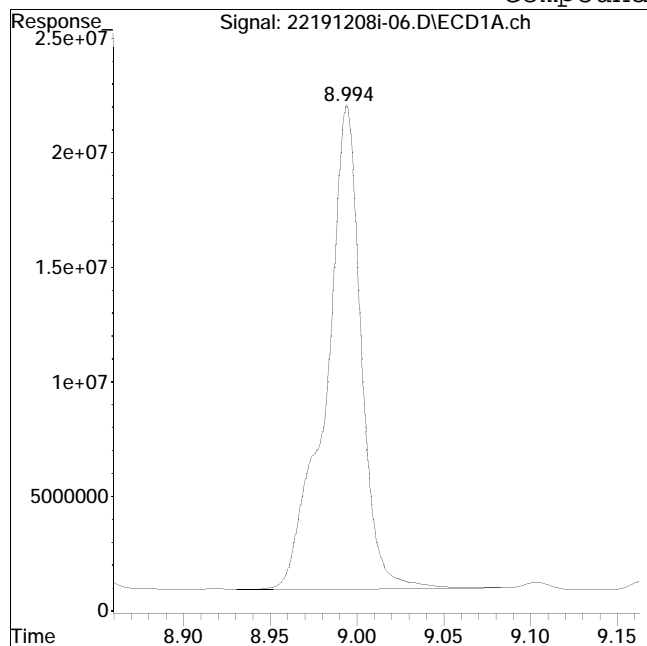
Manual Peak Response = 1489702847 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-06.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:02 pm Instrument : Pest22
Sample : iL5herb9503,42e,, Quant Date : 12/9/2019 10:52 am

Compound #11: 2,4-DB



Original Peak Response = 296729372

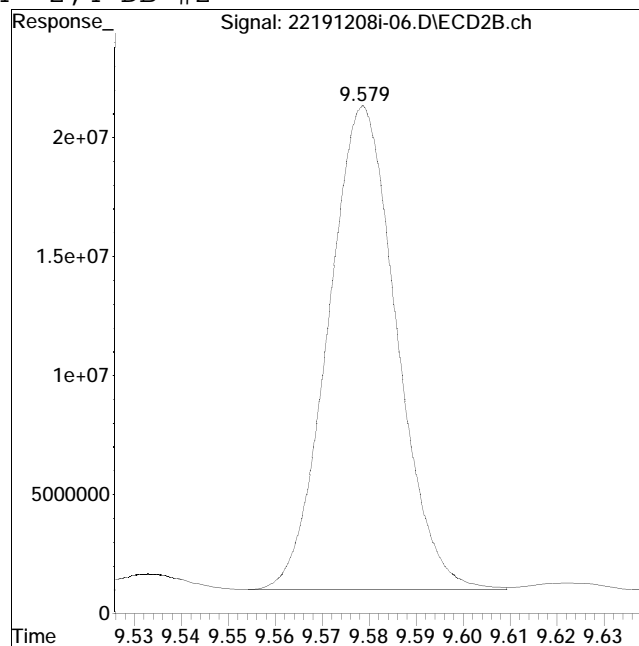
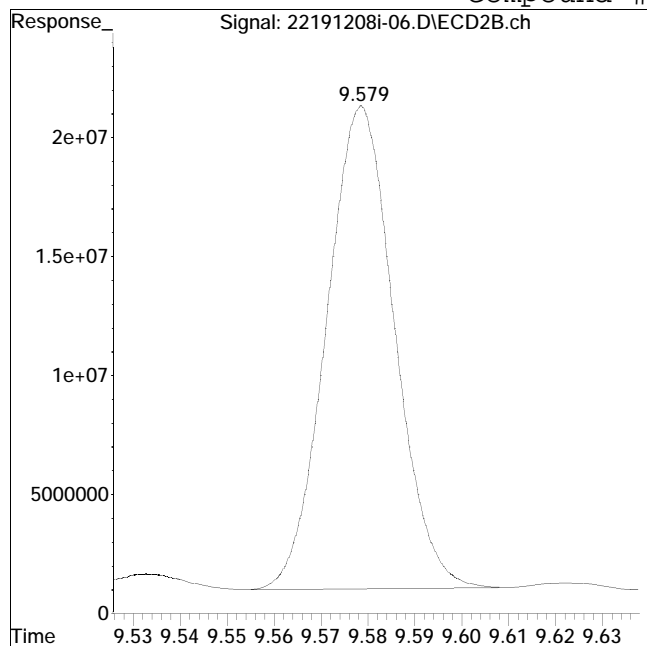
Manual Peak Response = 254590659 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-06.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:02 pm Instrument : Pest22
Sample : iL5herb9503,42e,, Quant Date : 12/9/2019 10:52 am

Compound #24: 2,4-DB #2



Original Peak Response = 203440876

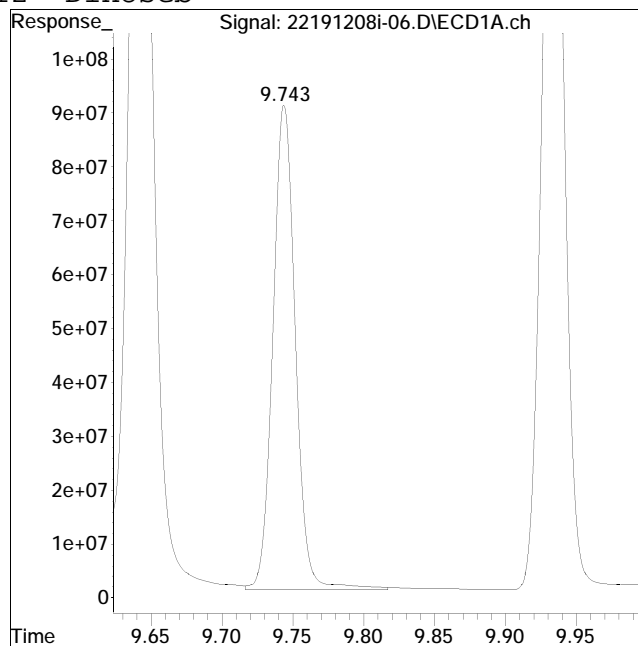
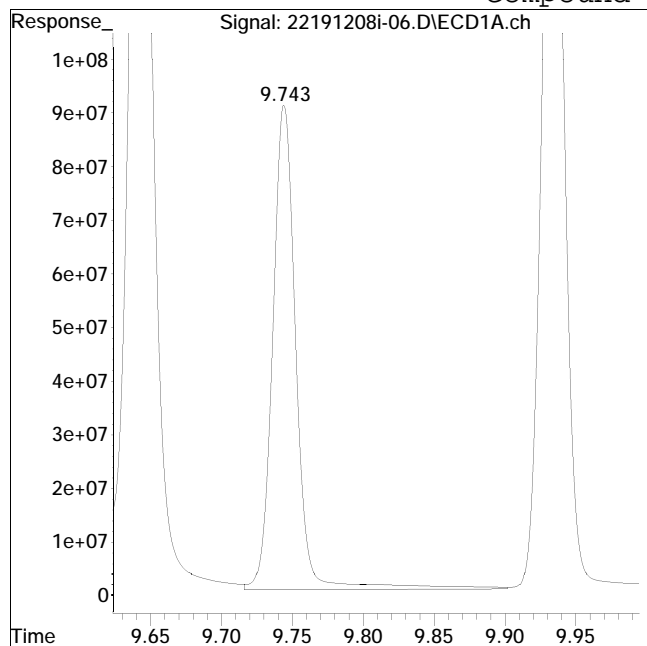
Manual Peak Response = 205636121 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-06.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:02 pm Instrument : Pest22
Sample : iL5herb9503,42e,, Quant Date : 12/9/2019 10:52 am

Compound #12: Dinoseb



Original Peak Response = 1041357760

Manual Peak Response = 994749428 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest22\data\2019\191208ical\
 Data File : 22191208i-07.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Dec 2019 08:20 pm
 Operator : pest22:dgm
 Sample : iL6herb9504,42e,,
 Misc : wgl318475,ical (Sig #1); ical (Sig #2)
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 09 12:04:05 2019
 Quant Method : I:\Pest22\data\2019\191208ical\Herb22_19_12_08_mgL_ICAL.m
 Quant Title : herb
 QLast Update : Mon Dec 09 10:58:36 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Internal Standards							
1) i	4,4'-DFOB	8.079	8.208	601.5E6	468.0E6	0.250	0.250
System Monitoring Compounds							
3) s	DCAA (surrog	6.533	7.133	592.5E6	607.3E6	1.582M4	1.797M4
Spiked Amount		0.500	Range	30 - 150	Recovery	=	316.40%# 359.40%#
Target Compounds							
2) t	Dalapon	2.084	2.168	587.6E6	564.6E6	1.511M4	1.663
4) t	Dicamba	6.711	7.311	2022.2E6	1917.2E6	1.701M4	1.888M4
5) t	MCPD	6.921	7.429	255.4E6	244.2E6	169.814M4	192.321M4
6) t	MCPA	7.068	7.658	380.0E6	369.9E6	153.149M4	168.257M4
7) t	Dichloroprop	7.413	7.970	543.6E6	510.0E6	1.553M4	1.790M4
8) t	2,4-D	7.623	8.254	697.6E6	700.7E6	1.618M4	1.748
9) t	2,4,5-TP (Si	8.353	8.918	2716.7E6	2507.2E6	1.706M4	1.899M4
10) t	2,4,5-T	8.579	9.214	2891.5E6	2583.9E6	1.728M4	1.922
11) t	2,4-DB	8.993	9.578	489.1E6	406.2E6	1.598M4	1.946M4
12) t	Dinoseb	9.744	9.803	1922.0E6	1654.8E6	1.687M4	1.842M4

SemiQuant Compounds - Not Calibrated on this Instrument

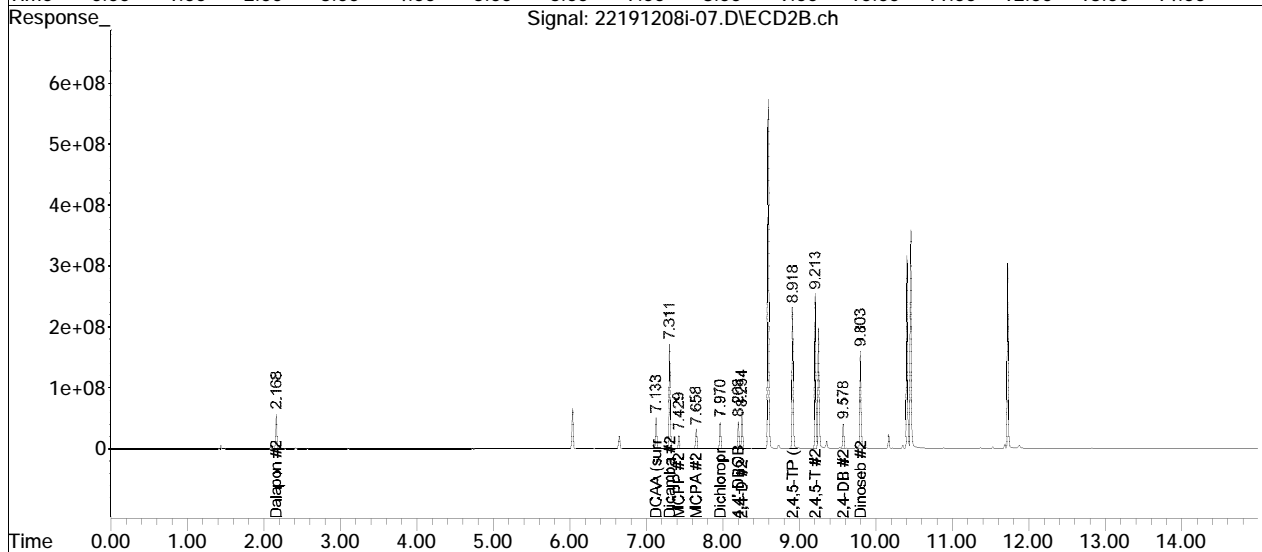
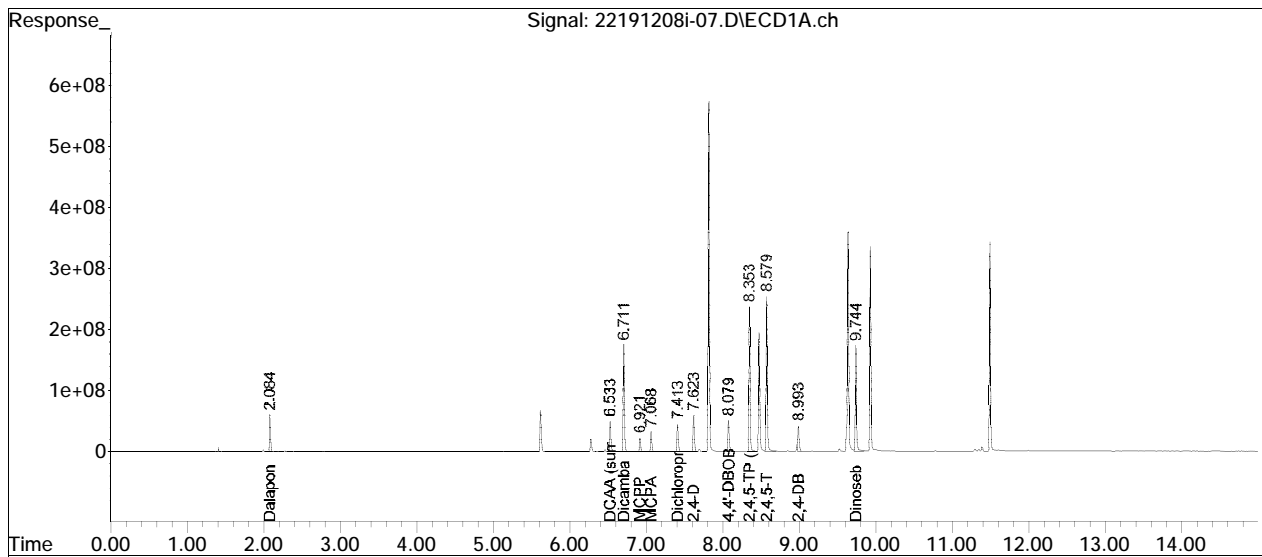
 (f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coeluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest22\data\2019\191208ical\
Data File : 22191208i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Dec 2019 08:20 pm
Operator : pest22:dgm
Sample : iL6herb9504,42e,,
Misc : wg1318475,ical (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 09 12:04:05 2019
Quant Method : I:\Pest22\data\2019\191208ical\Herb22_19_12_08_mgL_ICAL.m
Quant Title : herb
QLast Update : Mon Dec 09 10:58:36 2019
Response via : Initial Calibration
Integrator: ChemStation

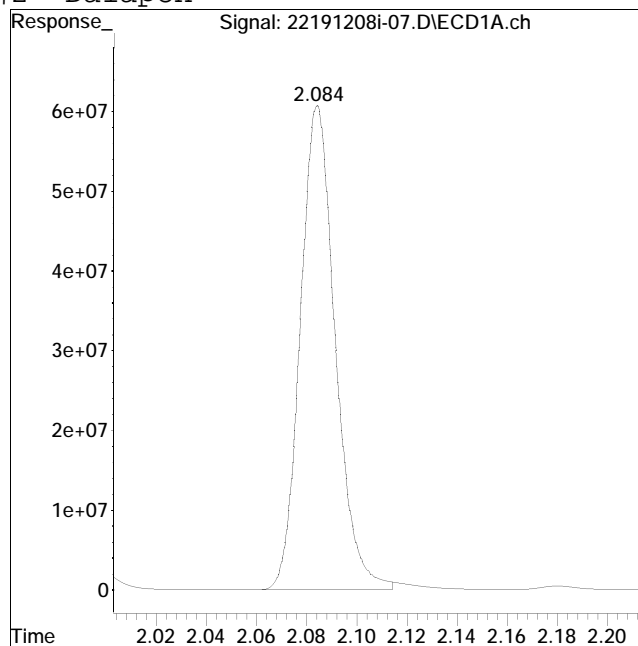
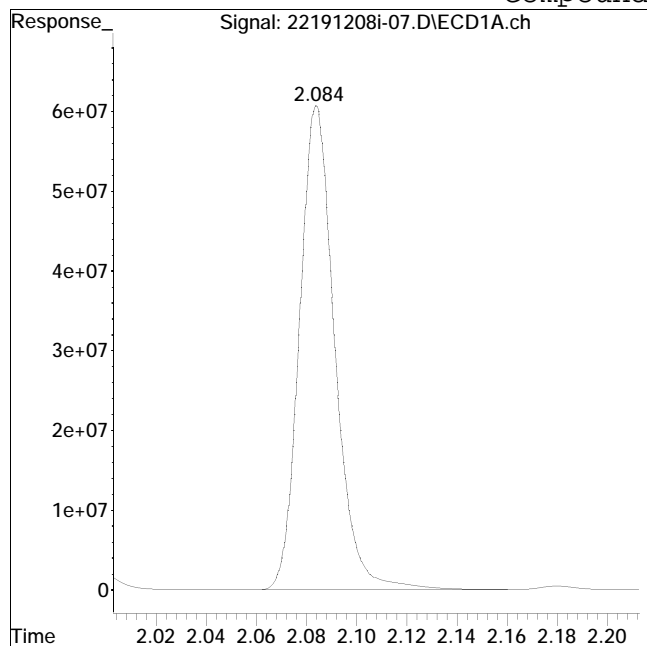
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-07.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:20 pm Instrument : Pest22
Sample : iL6herb9504,42e,, Quant Date : 12/9/2019 10:58 am

Compound #2: Dalapon



Original Peak Response = 594749696

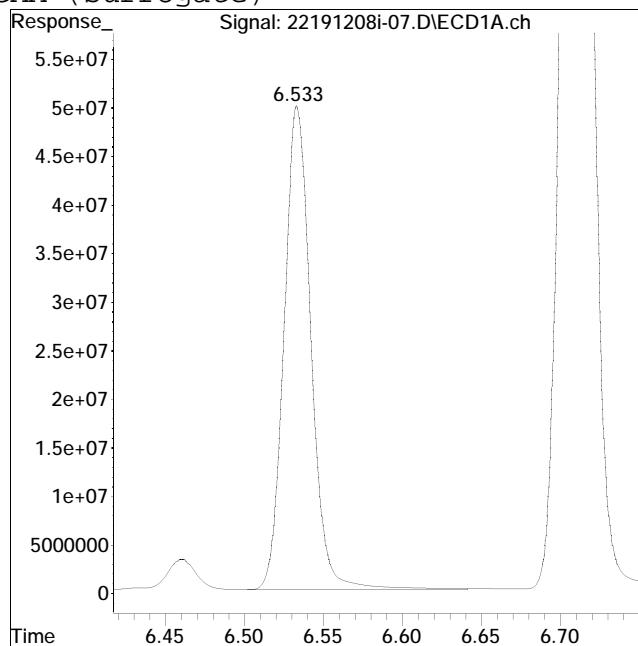
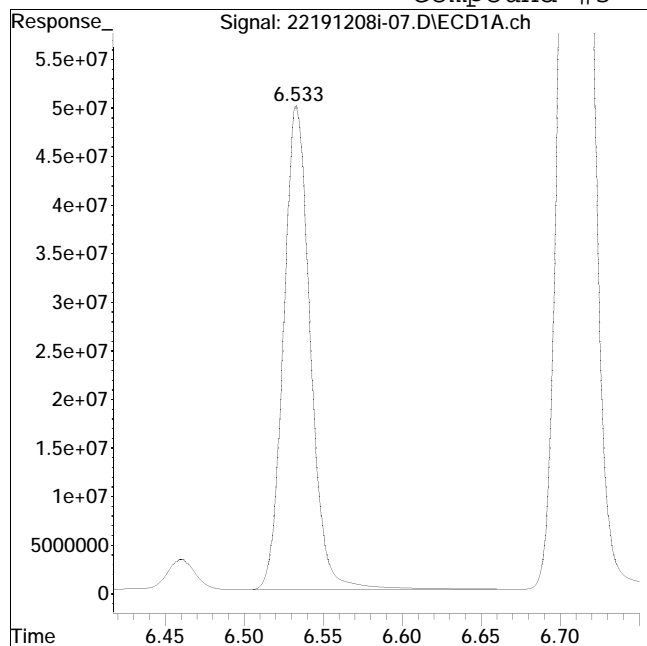
Manual Peak Response = 587570448 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-07.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:20 pm Instrument : Pest22
Sample : iL6herb9504,42e,, Quant Date : 12/9/2019 10:58 am

Compound #3: DCAA (surrogate)



Original Peak Response = 587981430

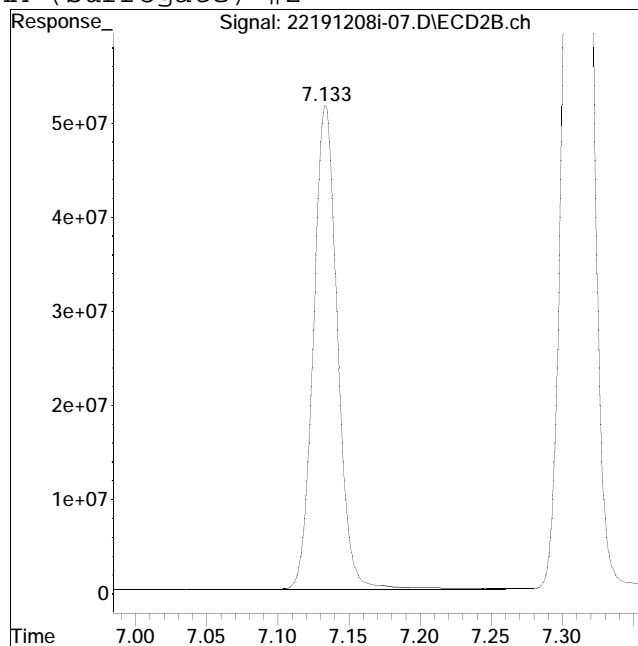
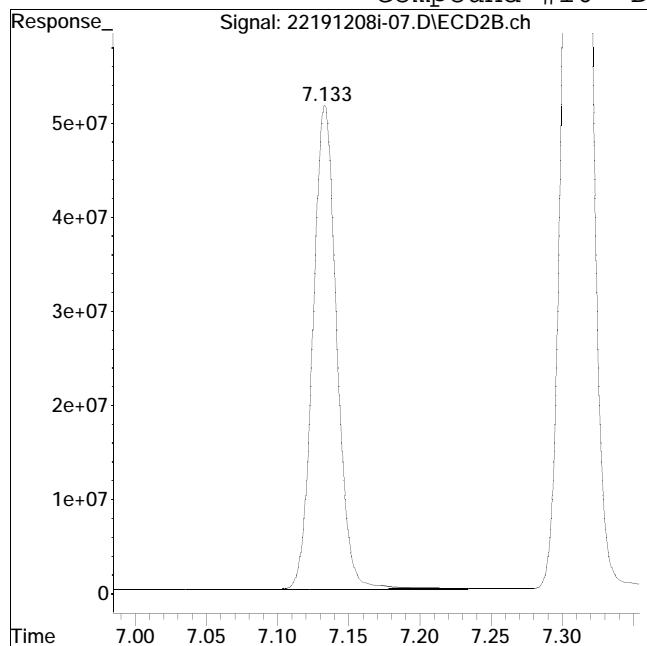
Manual Peak Response = 592488682 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-07.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:20 pm Instrument : Pest22
Sample : iL6herb9504,42e,, Quant Date : 12/9/2019 10:58 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 600658194

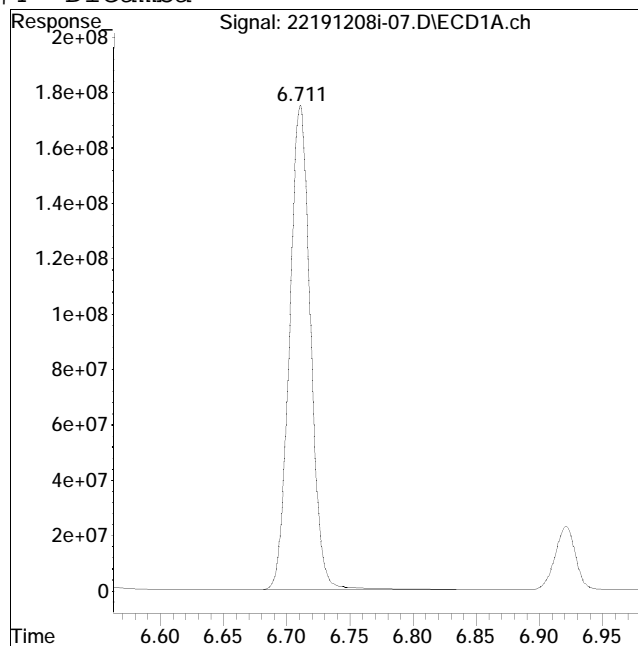
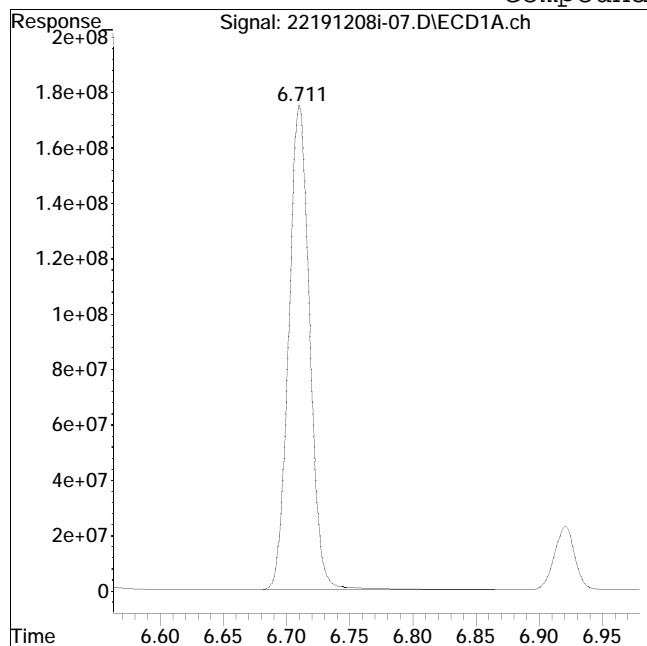
Manual Peak Response = 607276418 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-07.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:20 pm Instrument : Pest22
Sample : iL6herb9504,42e,, Quant Date : 12/9/2019 10:58 am

Compound #4: Dicamba



Original Peak Response = 2018370822

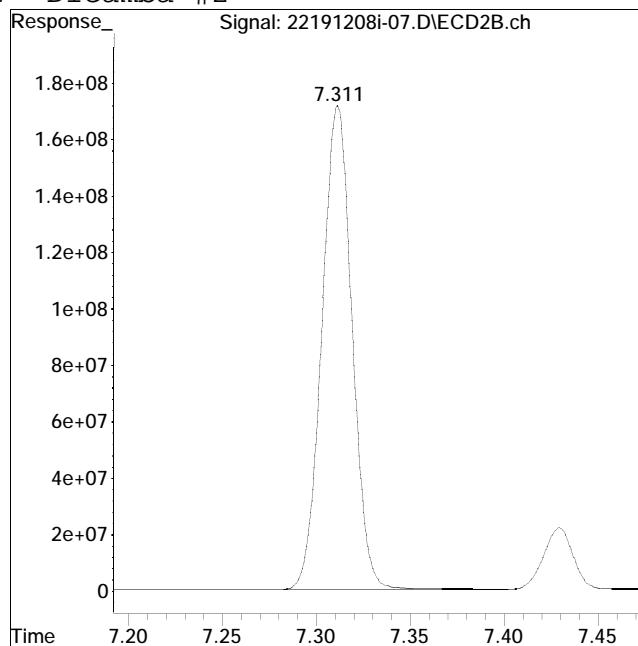
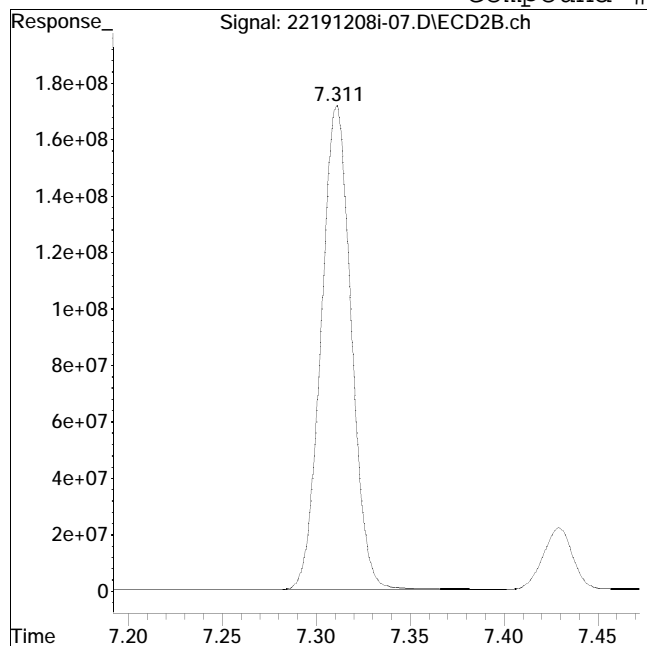
Manual Peak Response = 2022164860 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-07.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:20 pm Instrument : Pest22
Sample : iL6herb9504,42e,, Quant Date : 12/9/2019 10:58 am

Compound #17: Dicamba #2



Original Peak Response = 1914972703

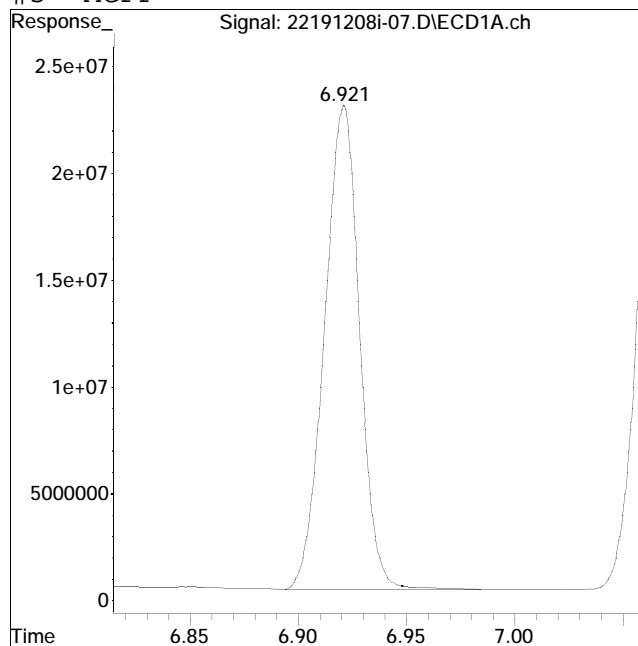
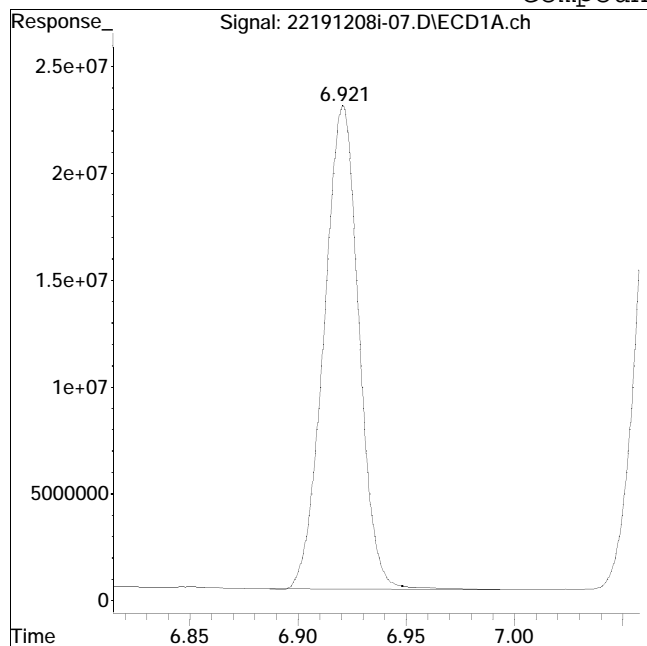
Manual Peak Response = 1917234369 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-07.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:20 pm Instrument : Pest22
Sample : iL6herb9504,42e,, Quant Date : 12/9/2019 10:58 am

Compound #5: MCPP



Original Peak Response = 253937061

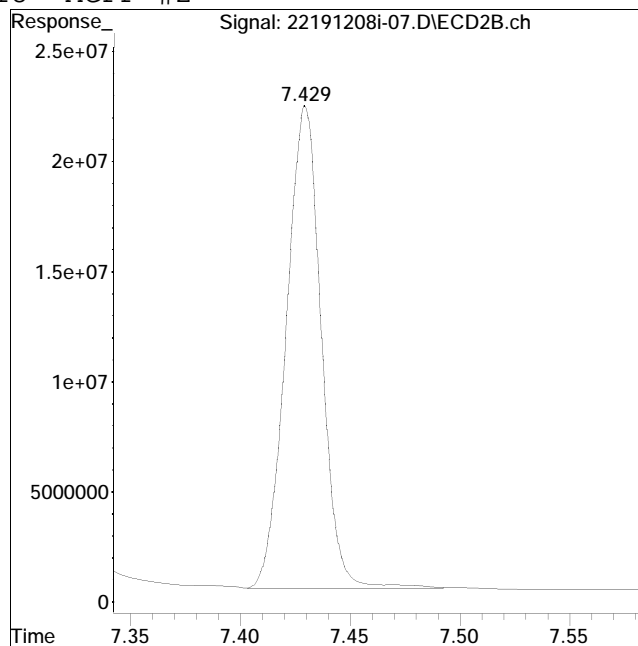
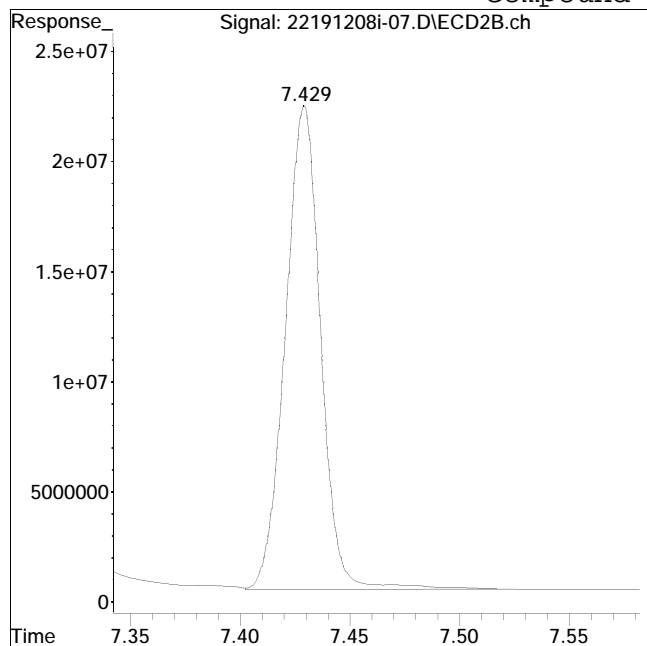
Manual Peak Response = 255424543 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-07.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:20 pm Instrument : Pest22
Sample : iL6herb9504,42e,, Quant Date : 12/9/2019 10:58 am

Compound #18: MCPP #2



Original Peak Response = 246520856

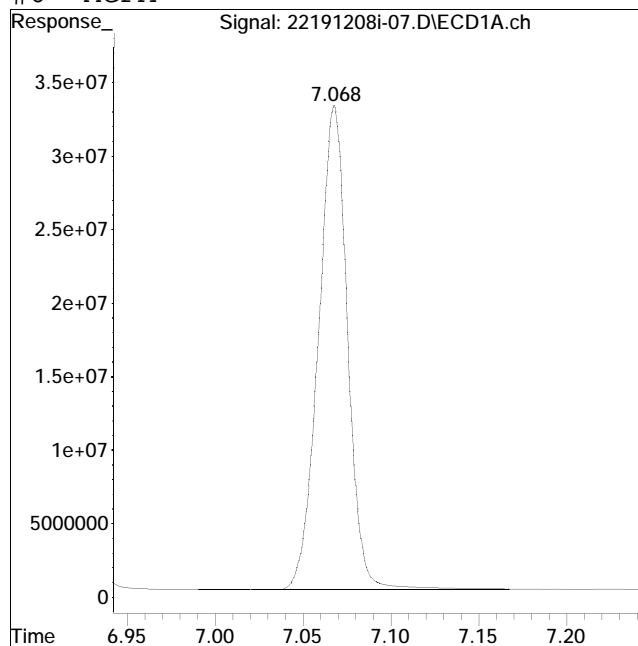
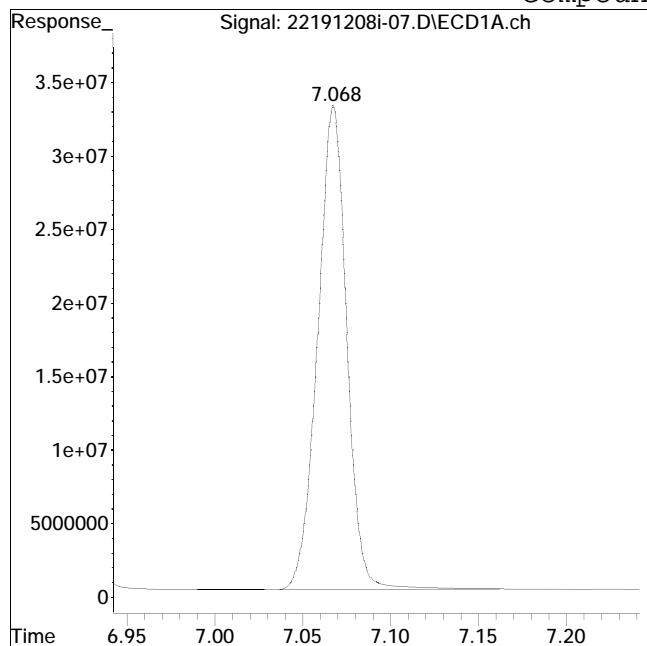
Manual Peak Response = 244249501 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-07.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:20 pm Instrument : Pest22
Sample : iL6herb9504,42e,, Quant Date : 12/9/2019 10:58 am

Compound #6: MCPA



Original Peak Response = 376976582

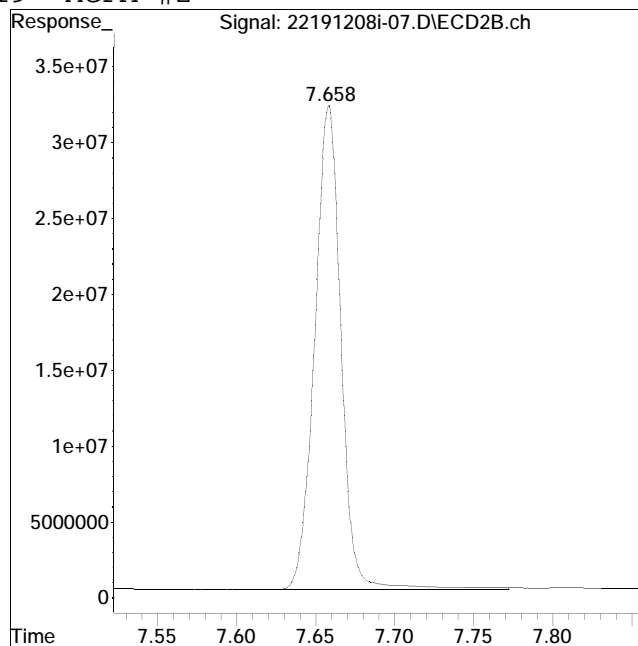
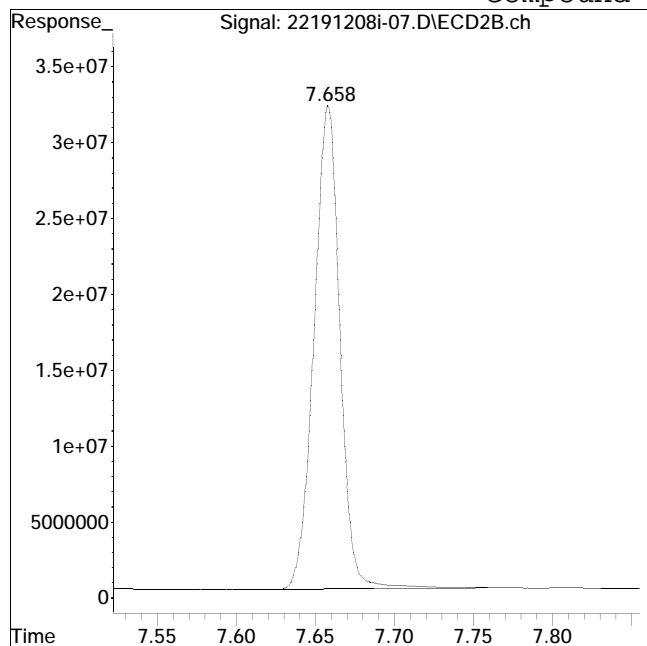
Manual Peak Response = 380045427 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-07.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:20 pm Instrument : Pest22
Sample : iL6herb9504,42e,, Quant Date : 12/9/2019 10:58 am

Compound #19: MCPA #2



Original Peak Response = 363956938

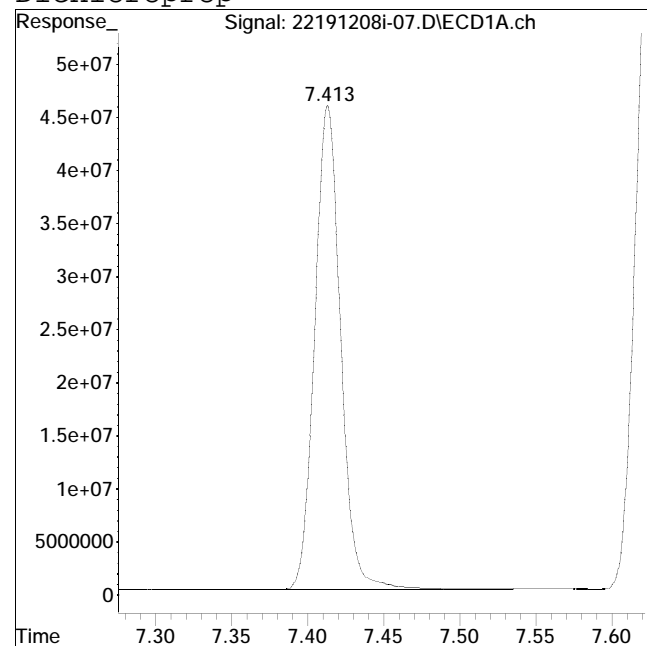
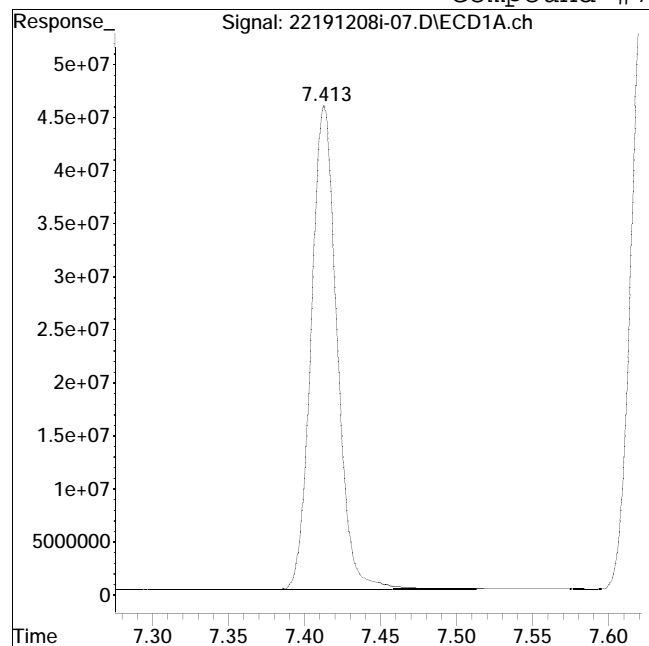
Manual Peak Response = 369891105 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-07.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:20 pm Instrument : Pest22
Sample : iL6herb9504,42e,, Quant Date : 12/9/2019 10:58 am

Compound #7: Dichloroprop



Original Peak Response = 540254952

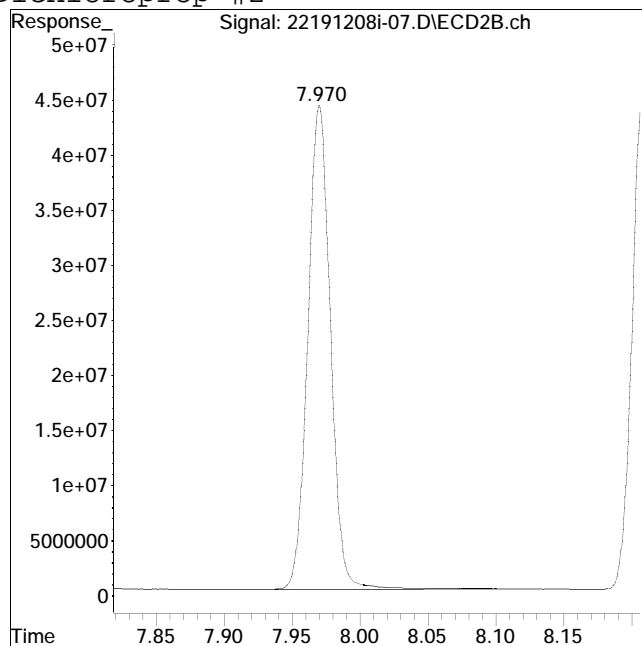
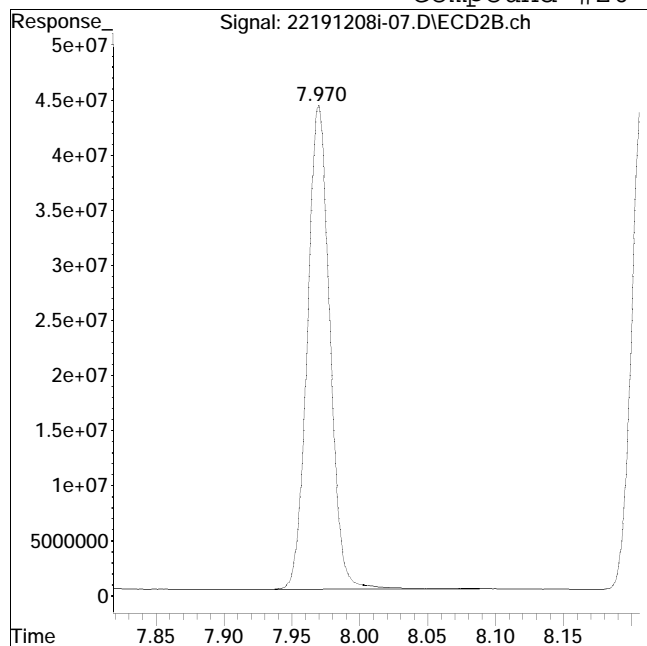
Manual Peak Response = 543602260 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-07.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:20 pm Instrument : Pest22
Sample : iL6herb9504,42e,, Quant Date : 12/9/2019 10:58 am

Compound #20: Dichloroprop #2



Original Peak Response = 507958948

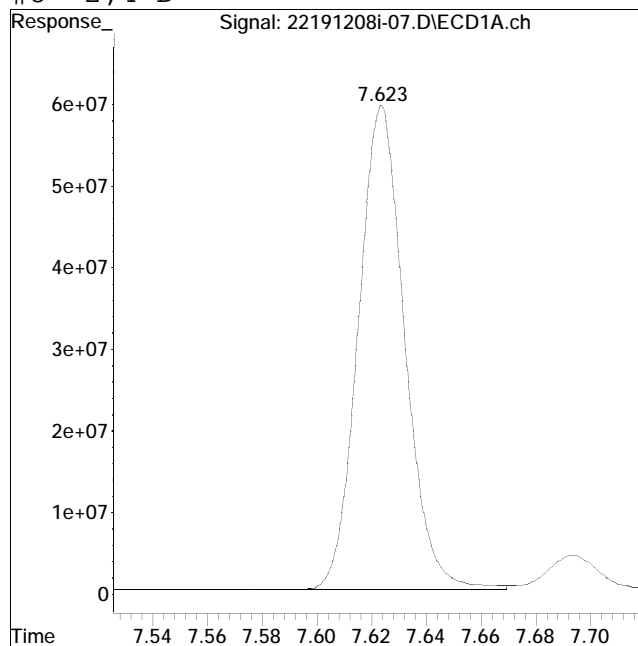
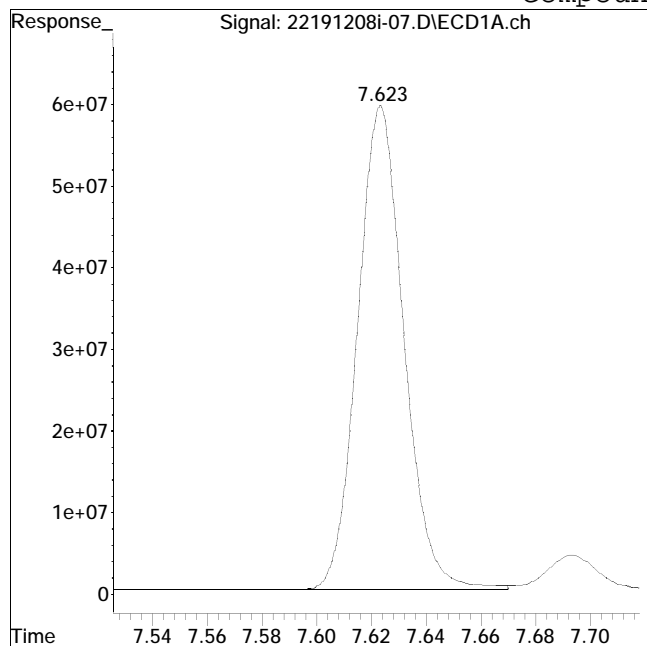
Manual Peak Response = 509985932 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-07.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:20 pm Instrument : Pest22
Sample : iL6herb9504,42e,, Quant Date : 12/9/2019 10:58 am

Compound #8: 2,4-D



Original Peak Response = 695002861

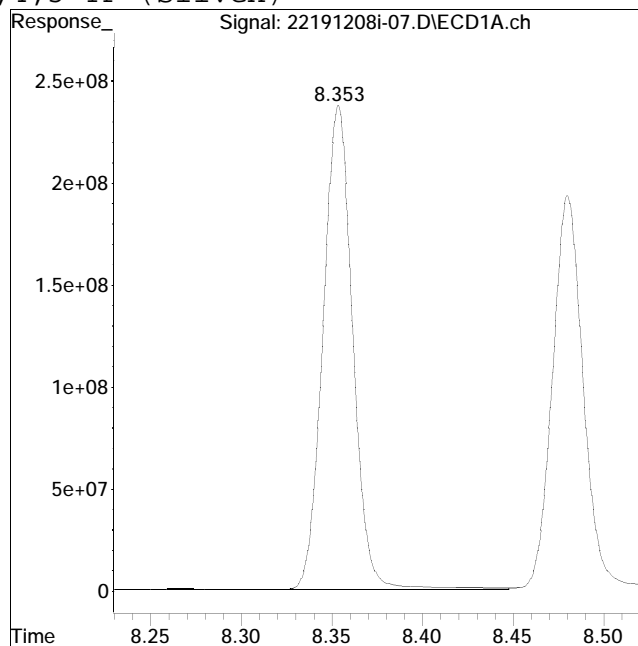
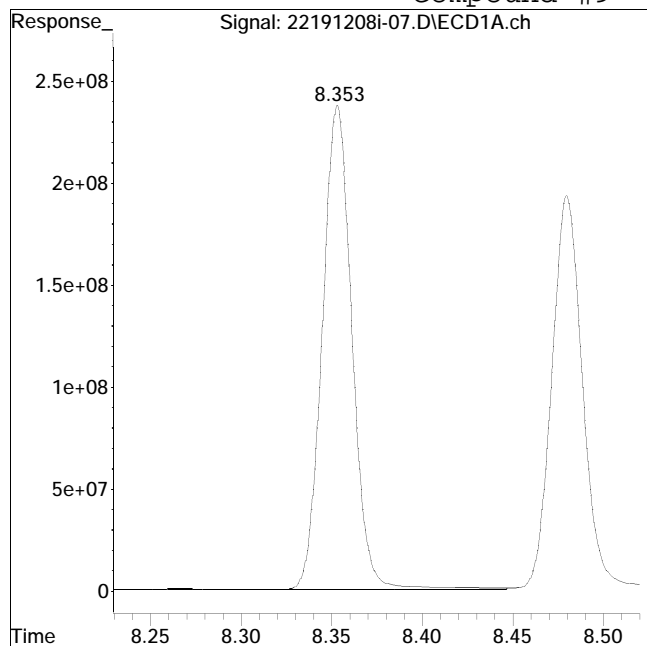
Manual Peak Response = 697596313 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-07.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:20 pm Instrument : Pest22
Sample : iL6herb9504,42e,, Quant Date : 12/9/2019 10:58 am

Compound #9: 2,4,5-TP (Silvex)



Original Peak Response = 2704888889

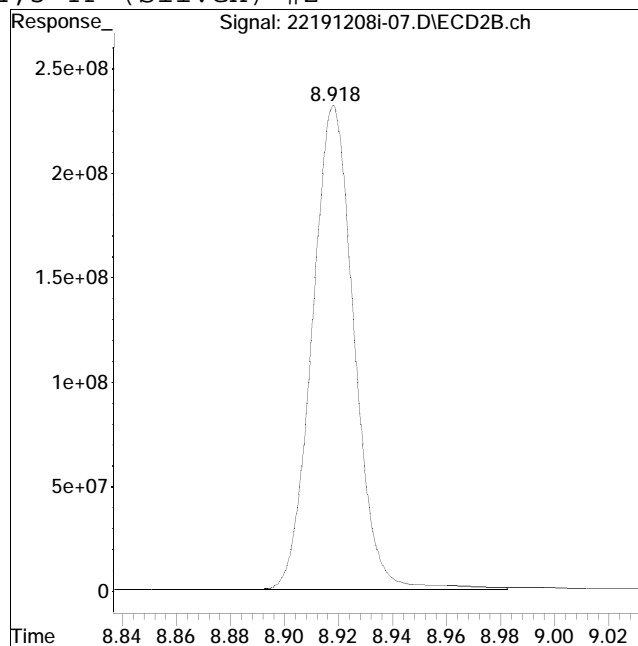
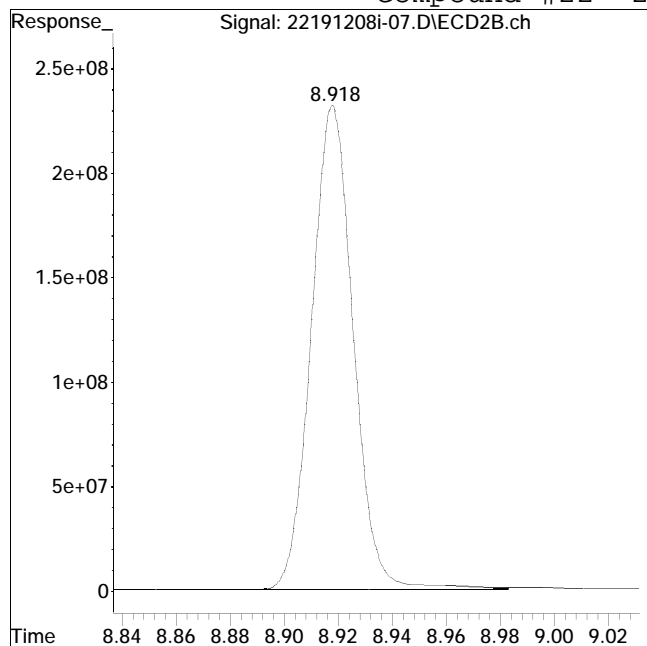
Manual Peak Response = 2716658478 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-07.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:20 pm Instrument : Pest22
Sample : iL6herb9504,42e,, Quant Date : 12/9/2019 10:58 am

Compound #22: 2,4,5-TP (Silvex) #2



Original Peak Response = 2497021535

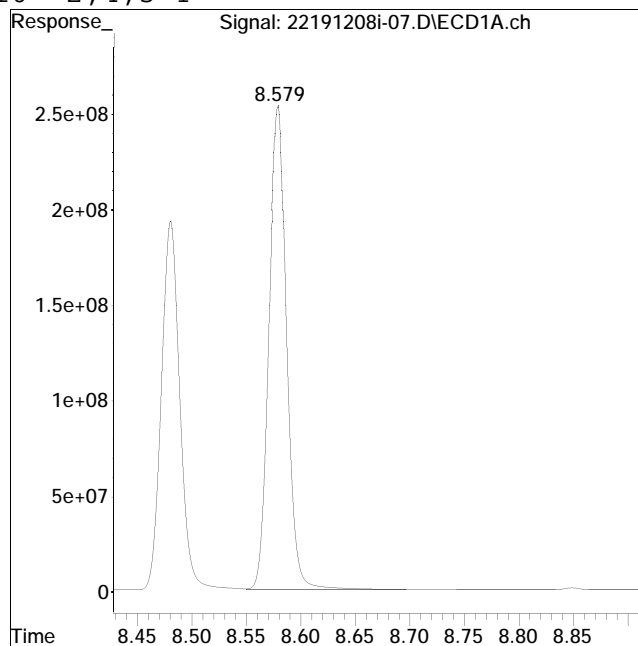
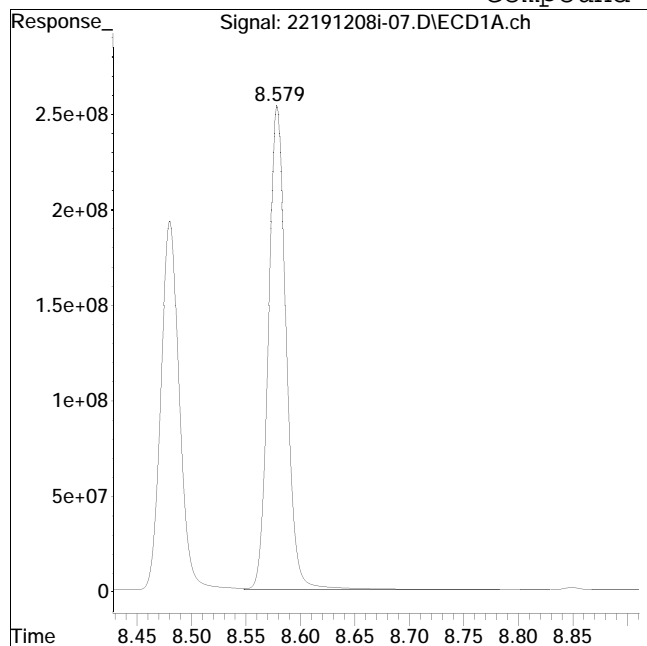
Manual Peak Response = 2507190210 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-07.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:20 pm Instrument : Pest22
Sample : iL6herb9504,42e,, Quant Date : 12/9/2019 10:58 am

Compound #10: 2,4,5-T



Original Peak Response = 2907607882

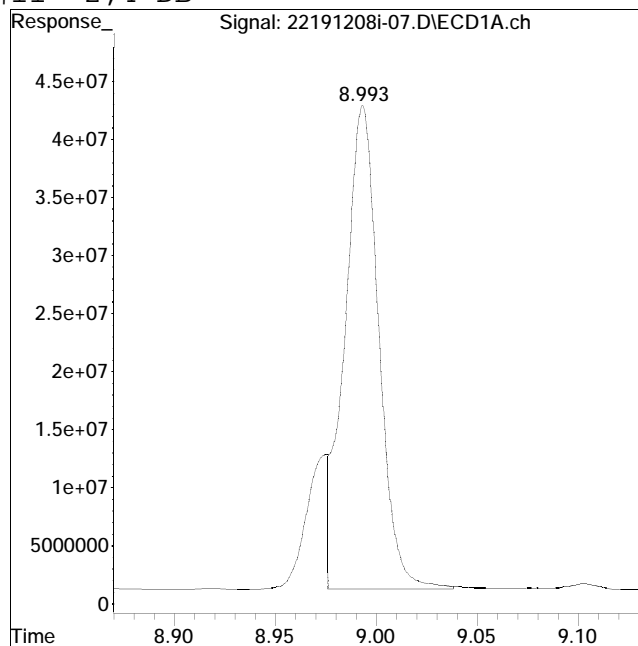
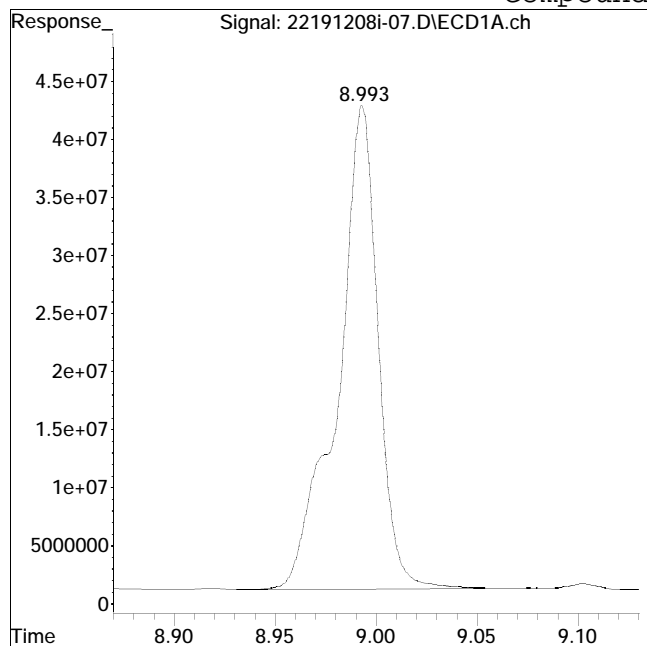
Manual Peak Response = 2891525555 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-07.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:20 pm Instrument : Pest22
Sample : iL6herb9504,42e,, Quant Date : 12/9/2019 10:58 am

Compound #11: 2,4-DB



Original Peak Response = 574882327

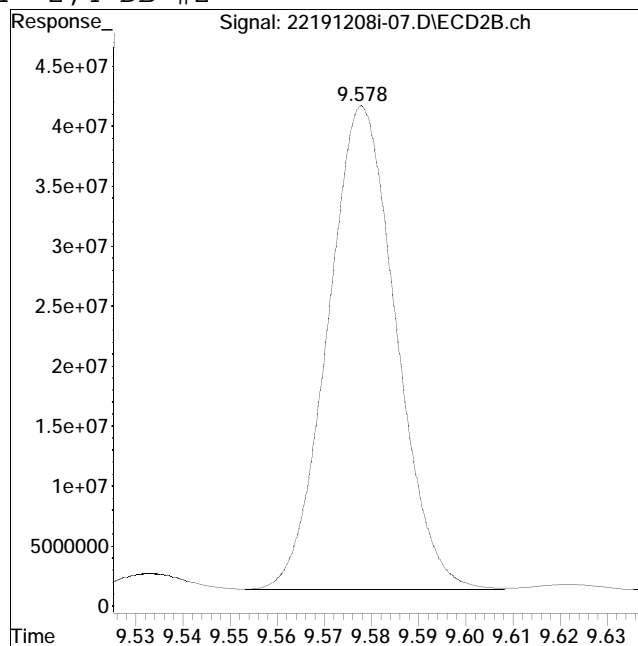
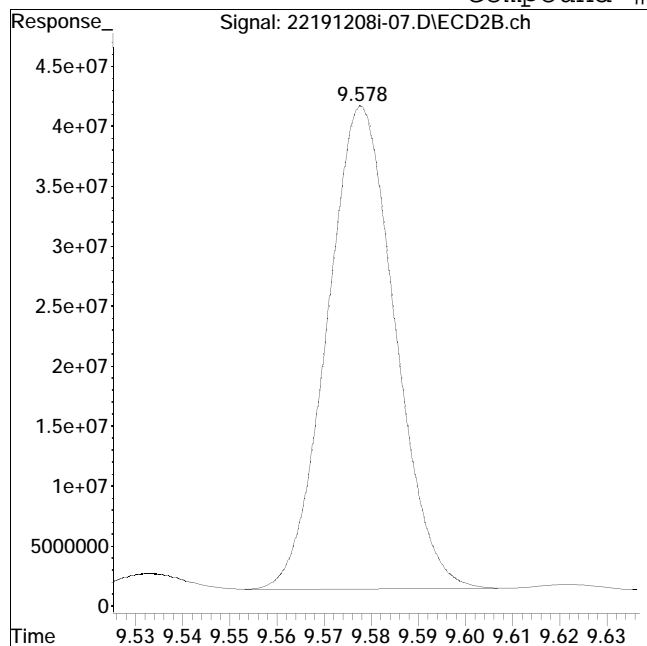
Manual Peak Response = 489093348 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-07.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:20 pm Instrument : Pest22
Sample : iL6herb9504,42e,, Quant Date : 12/9/2019 10:58 am

Compound #24: 2,4-DB #2



Original Peak Response = 402884913

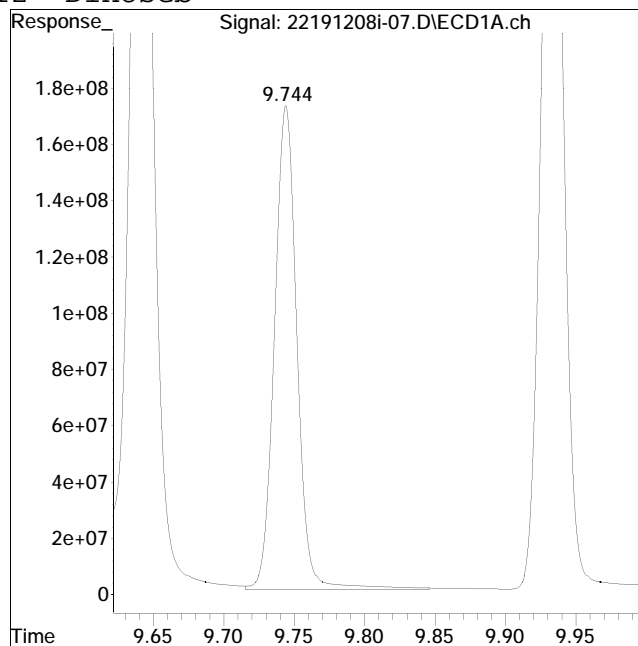
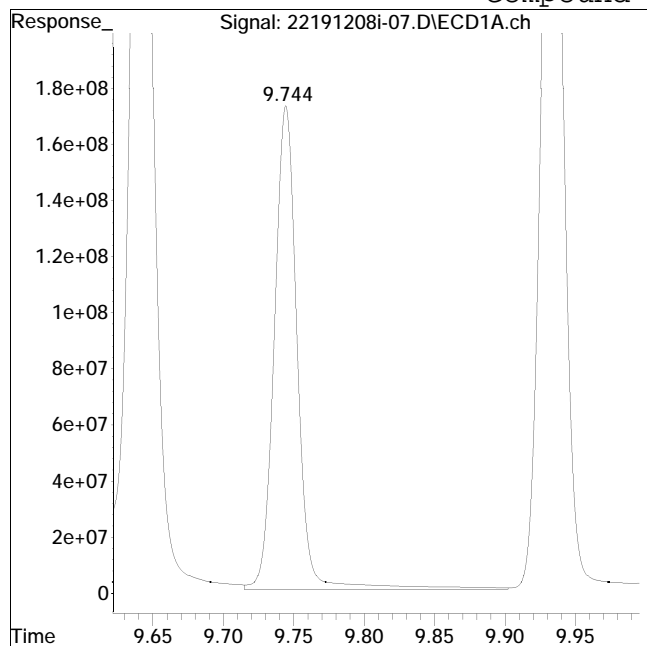
Manual Peak Response = 406152464 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-07.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:20 pm Instrument : Pest22
Sample : iL6herb9504,42e,, Quant Date : 12/9/2019 10:58 am

Compound #12: Dinoseb



Original Peak Response = 1974050927

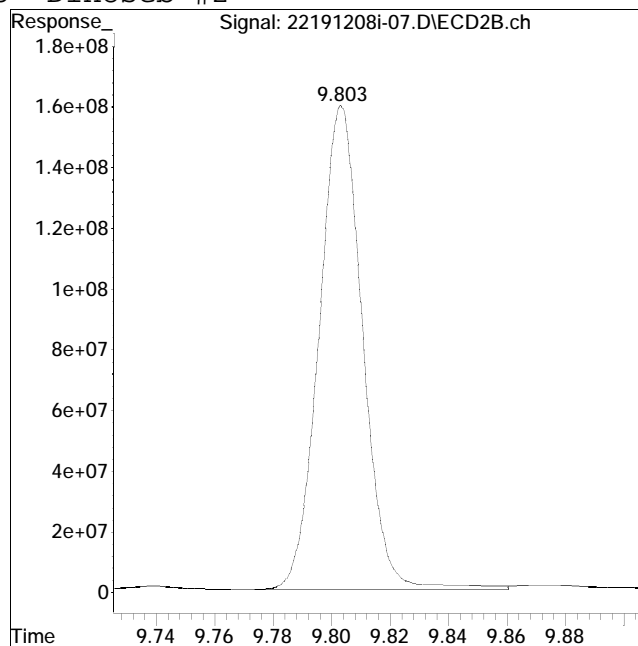
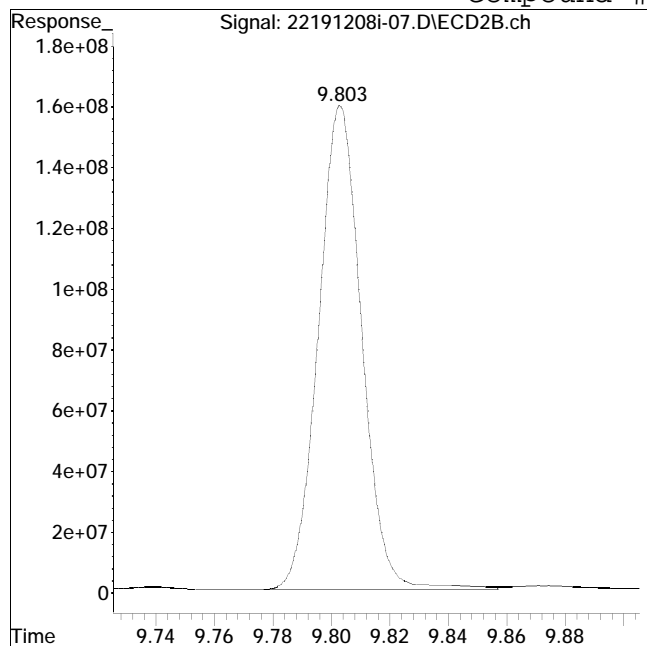
Manual Peak Response = 1921976644 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-07.D Operator : pest22:dgm
Date Inj'd : 12/8/2019 8:20 pm Instrument : Pest22
Sample : iL6herb9504,42e,, Quant Date : 12/9/2019 10:58 am

Compound #25: Dinoseb #2



Original Peak Response = 1641576878

Manual Peak Response = 1654794117 M4

M4 = Poor automated baseline construction.

Initial Calibration Verification

Quantitation Report (QT Reviewed)

Data Path : I:\Pest22\data\2019\191208ical\
 Data File : 22191208i-09.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09 Dec 2019 12:28 pm
 Operator : pest22:dgm
 Sample : cicv9495,42e,, (Sig #1); herb cicv9495,42e,, (Sig #2)
 Misc : wgl318475,ical
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 09 13:32:25 2019
 Quant Method : I:\Pest22\data\2019\191208ical\Herb22_19_12_08_mgL_ICAL.m
 Quant Title : herb
 QLast Update : Mon Dec 09 12:05:05 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Internal Standards							
1) i	4,4'-DFOB	8.079	8.206	534.2E6	482.9E6	0.250	0.250
System Monitoring Compounds							
3) s	DCAA (surrog	6.537	7.132	64954786	62904480	0.187	0.174
	Spiked Amount	0.500	Range 30 - 150	Recovery =		37.40%	34.80%
Target Compounds							
2) t	Dalapon	2.084	2.167	64559277	61703710	0.182M4	0.171
4) t	Dicamba	6.712	7.309	204.2E6	196.4E6	0.192M4	0.185M4
5) t	MCPD	6.917	7.424	24179625	22481747	18.699M4	17.441
6) t	MCPA	7.064	7.652	44729296	42656912	19.146	17.817
7) t	Dichloroprop	7.415	7.969	66621634	62313903	0.204	0.202
8) t	2,4-D	7.628	8.253	80319488	81710484	0.198M4	0.176
9) t	2,4,5-TP (Si	8.355	8.917	304.5E6	283.7E6	0.213M4	0.205
10) t	2,4,5-T	8.582	9.213	303.3E6	270.7E6	0.202	0.191
11) t	2,4-DB	8.996	9.577	49536339	45079945	0.174M4	0.200M4
12) t	Dinoseb	9.744	9.802	213.9E6	181.4E6	0.203	0.188

SemiQuant Compounds - Not Calibrated on this Instrument

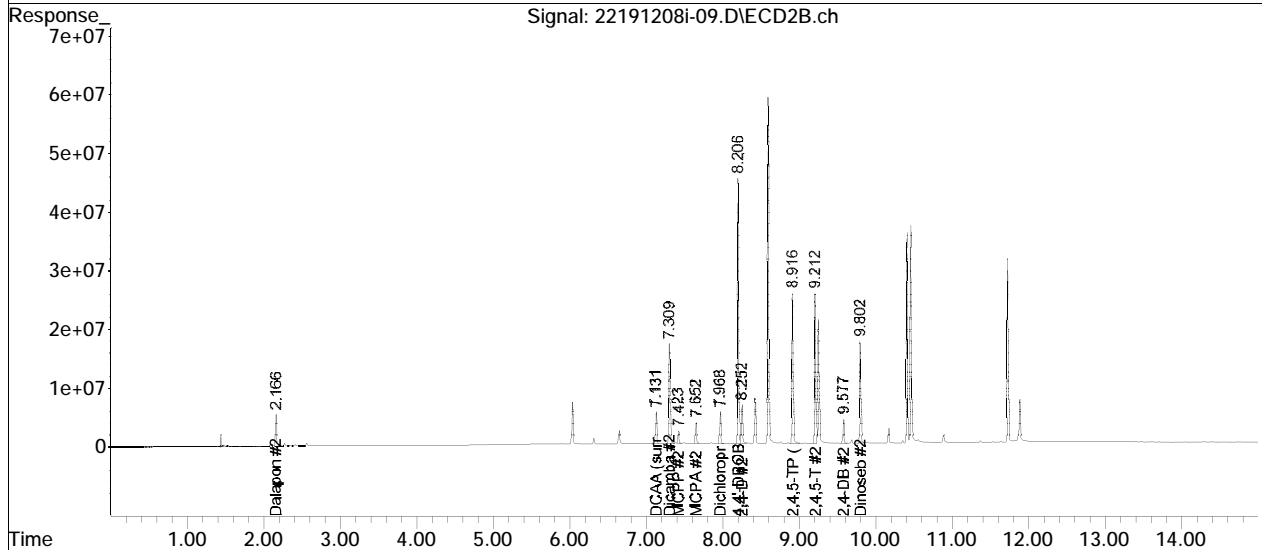
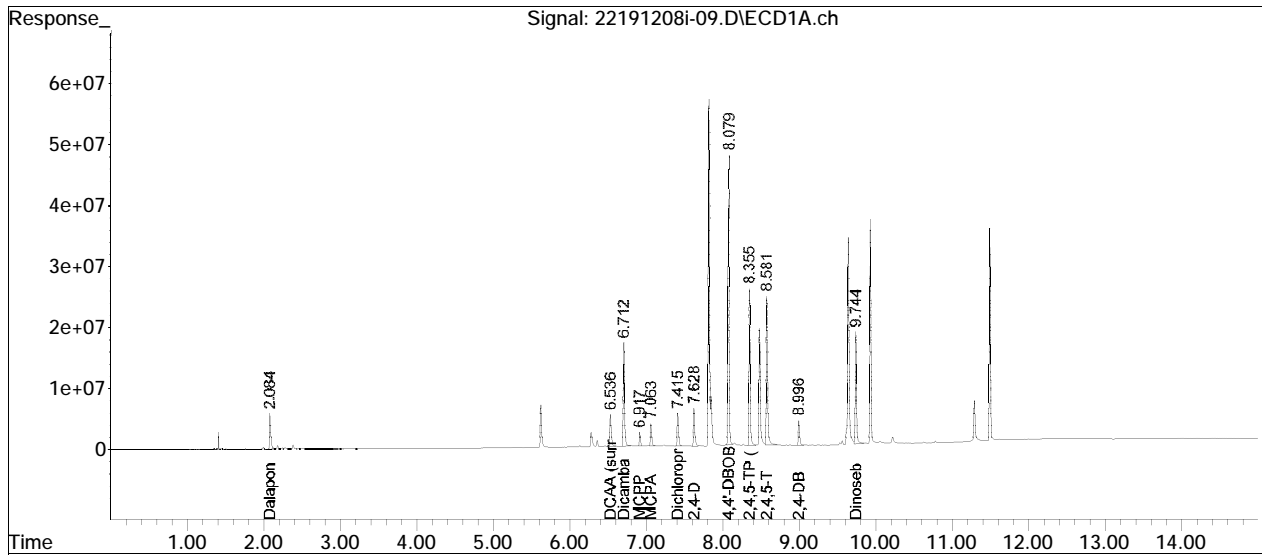
 (f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest22\data\2019\191208ical\
Data File : 22191208i-09.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Dec 2019 12:28 pm
Operator : pest22:dgm
Sample : cicv9495,42e,, (Sig #1); herb cicv9495,42e,, (Sig #2)
Misc : wg1318475,ical
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 09 13:32:25 2019
Quant Method : I:\Pest22\data\2019\191208ical\Herb22_19_12_08_mgL_ICAL.m
Quant Title : herb
QLast Update : Mon Dec 09 12:05:05 2019
Response via : Initial Calibration
Integrator: ChemStation

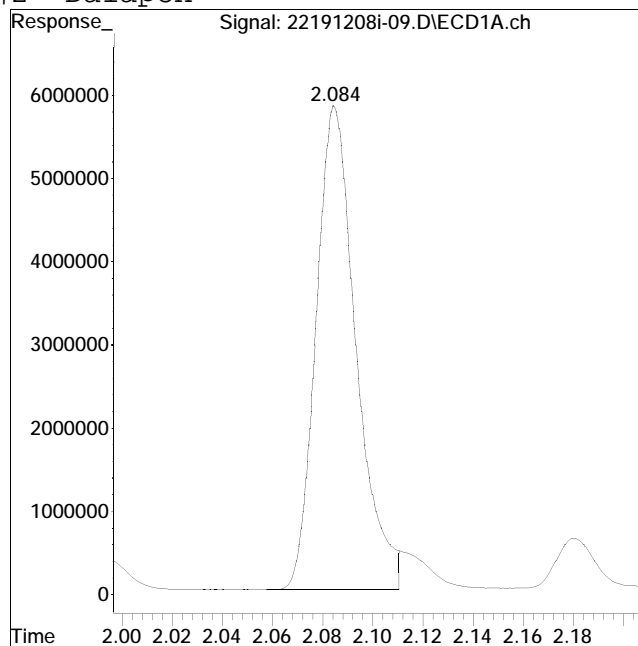
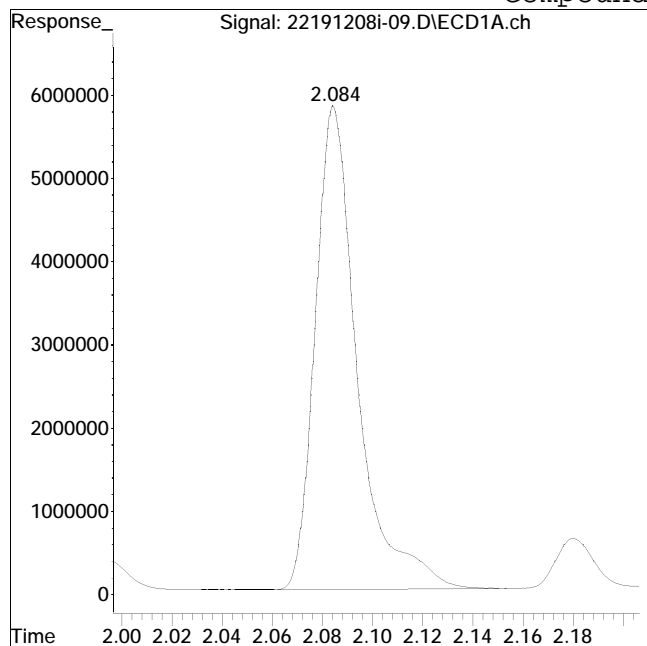
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-09.D Operator : pest22:dgm
Date Inj'd : 12/9/2019 12:28 pm Instrument : Pest22
Sample : cicv9495,42e,, Quant Date : 12/9/2019 1:29 pm

Compound #2: Dalapon



Original Peak Response = 67776851

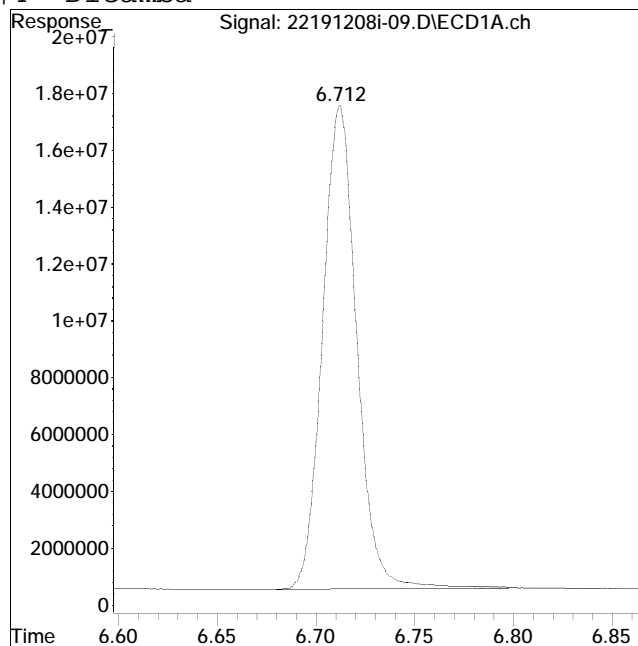
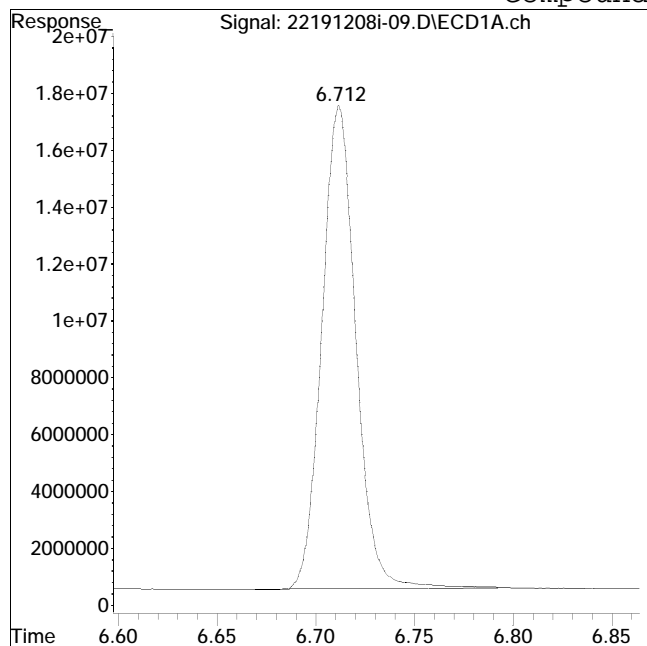
Manual Peak Response = 64559277 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-09.D Operator : pest22:dgm
Date Inj'd : 12/9/2019 12:28 pm Instrument : Pest22
Sample : cicv9495,42e,, Quant Date : 12/9/2019 1:29 pm

Compound #4: Dicamba



Original Peak Response = 202866629

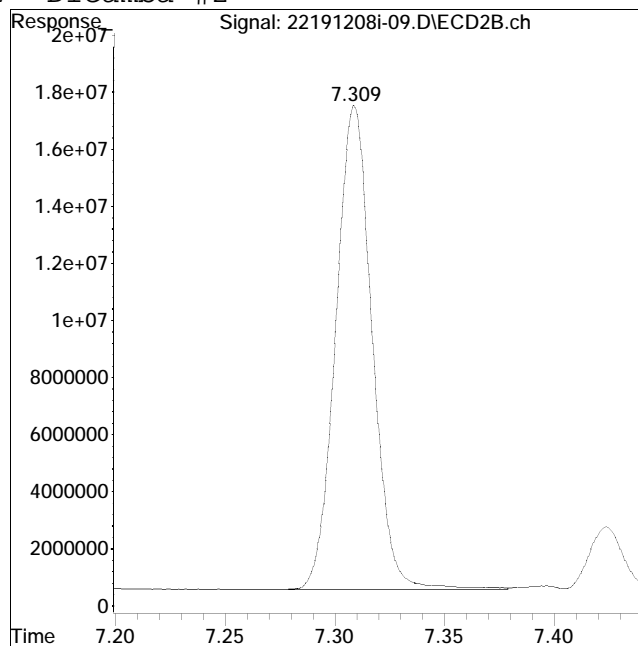
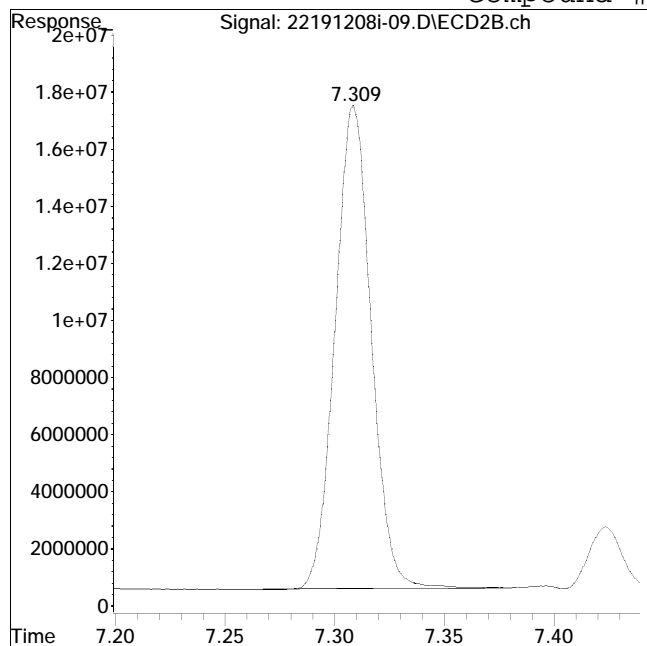
Manual Peak Response = 204205512 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-09.D Operator : pest22:dgm
Date Inj'd : 12/9/2019 12:28 pm Instrument : Pest22
Sample : cicv9495,42e,, Quant Date : 12/9/2019 1:29 pm

Compound #17: Dicamba #2



Original Peak Response = 193317094

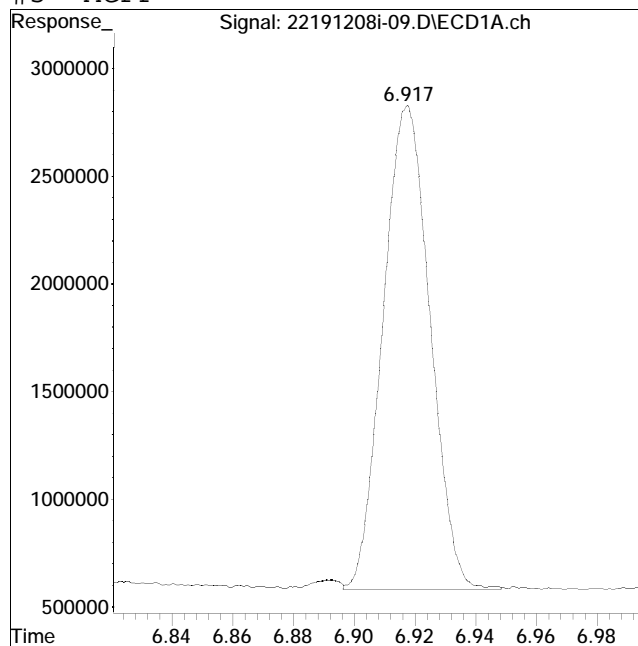
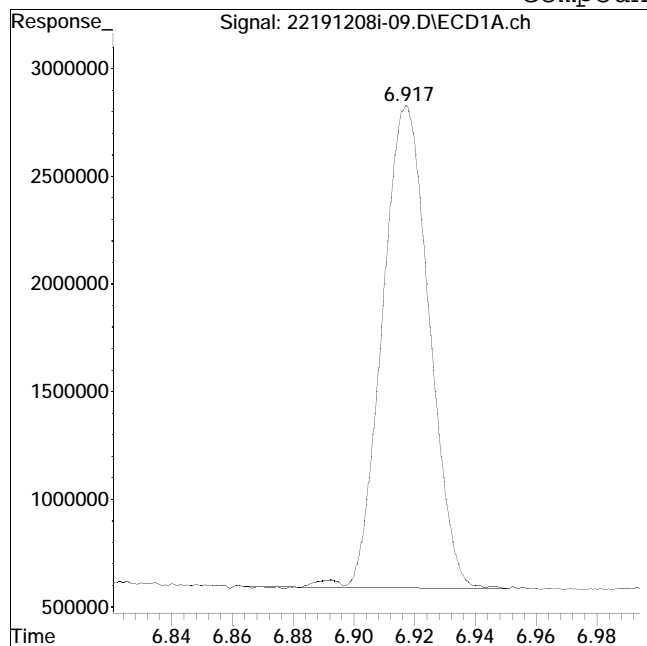
Manual Peak Response = 196352342 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-09.D Operator : pest22:dgm
Date Inj'd : 12/9/2019 12:28 pm Instrument : Pest22
Sample : cicv9495,42e,, Quant Date : 12/9/2019 1:29 pm

Compound #5: MCPP



Original Peak Response = 23976409

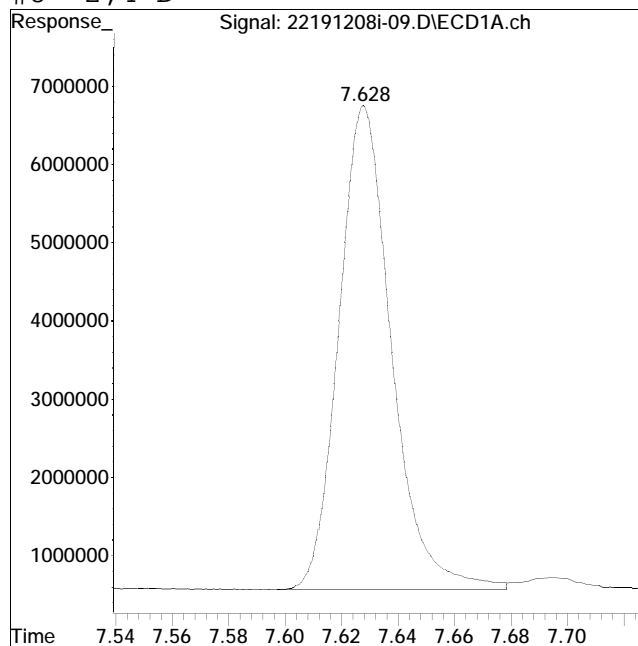
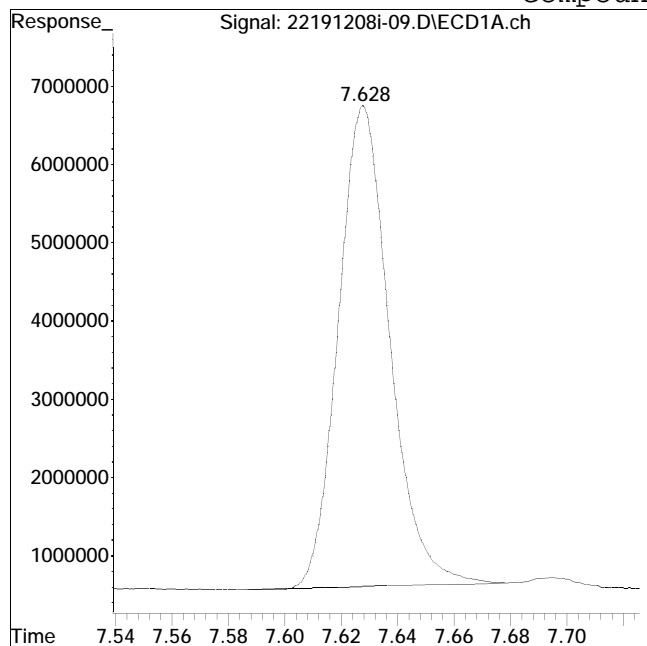
Manual Peak Response = 24179625 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-09.D Operator : pest22:dgm
Date Inj'd : 12/9/2019 12:28 pm Instrument : Pest22
Sample : cicv9495,42e,, Quant Date : 12/9/2019 1:29 pm

Compound #8: 2,4-D



Original Peak Response = 77620977

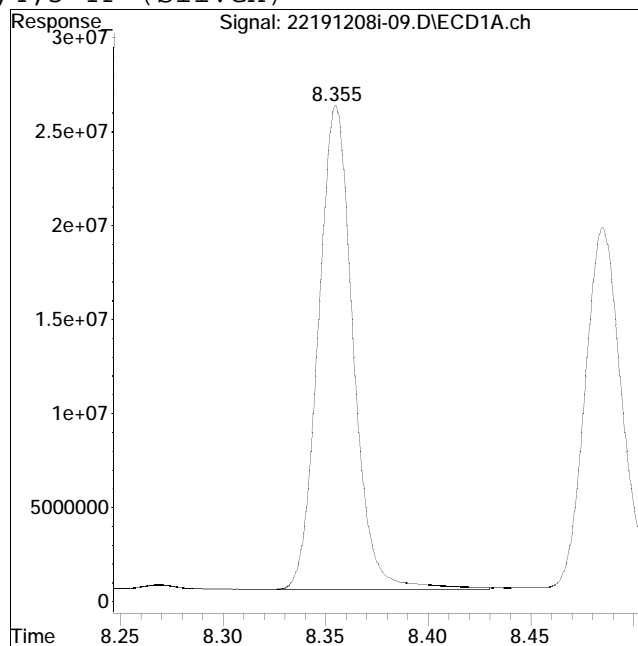
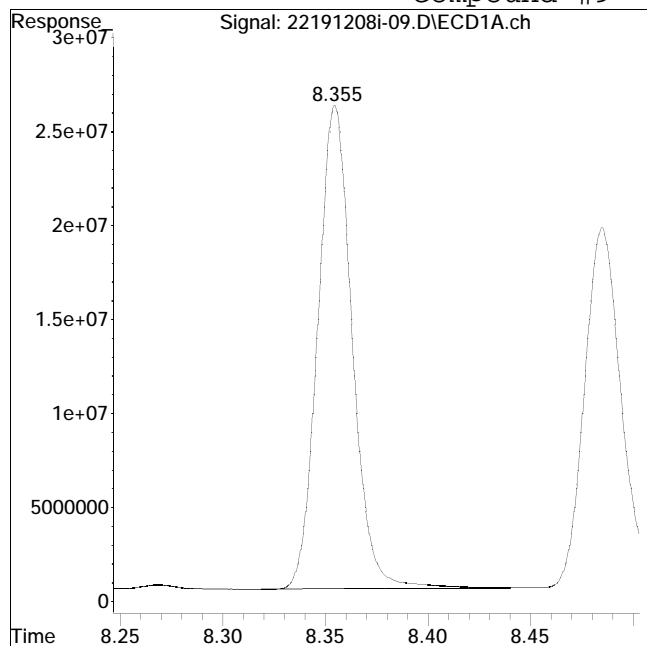
Manual Peak Response = 80319488 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-09.D Operator : pest22:dgm
Date Inj'd : 12/9/2019 12:28 pm Instrument : Pest22
Sample : cicv9495,42e,, Quant Date : 12/9/2019 1:29 pm

Compound #9: 2,4,5-TP (Silvex)



Original Peak Response = 300479250

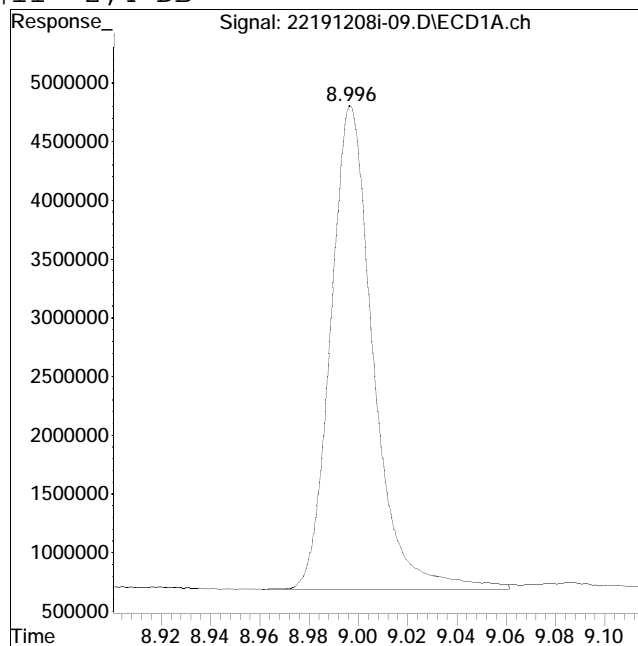
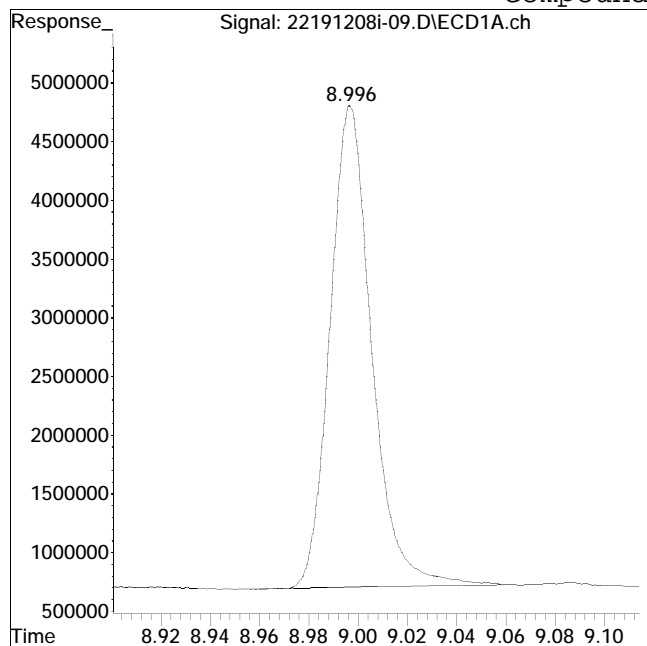
Manual Peak Response = 304493355 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-09.D Operator : pest22:dgm
Date Inj'd : 12/9/2019 12:28 pm Instrument : Pest22
Sample : cicv9495,42e,, Quant Date : 12/9/2019 1:29 pm

Compound #11: 2,4-DB



Original Peak Response = 48134884

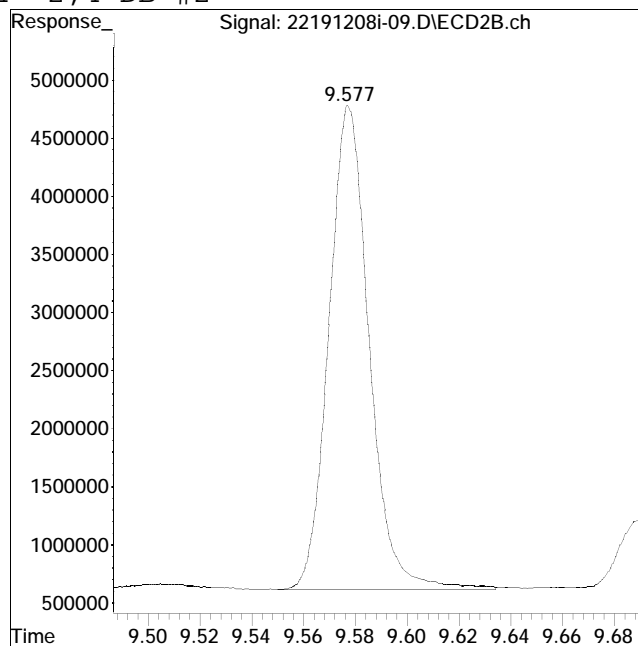
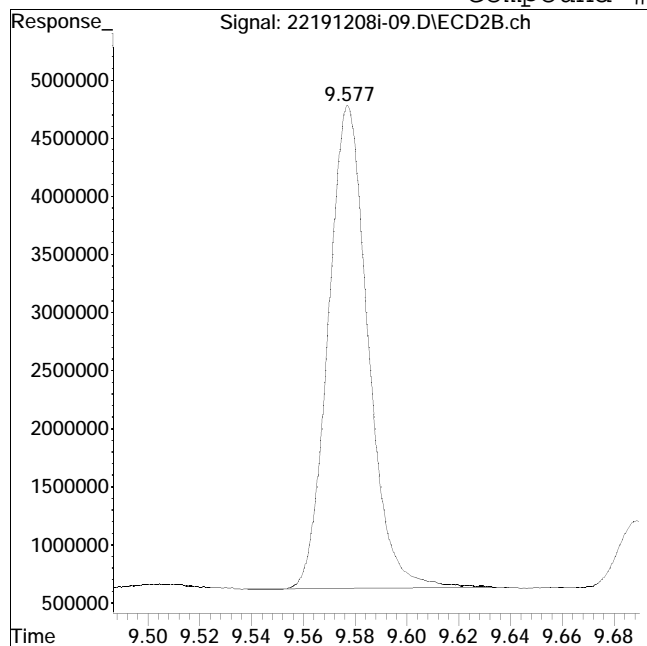
Manual Peak Response = 49536339 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191208QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191208i-09.D Operator : pest22:dgm
Date Inj'd : 12/9/2019 12:28 pm Instrument : Pest22
Sample : cicv9495,42e,, Quant Date : 12/9/2019 1:29 pm

Compound #24: 2,4-DB #2



Original Peak Response = 44449163

Manual Peak Response = 45079945 M4

M4 = Poor automated baseline construction.

Work Group

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Dec 13 2019, 10:42 am

Work Group: WG1314990 for Department: 2 Organic Preparation

Created: 28-NOV-19 Due: Operator: GN

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1956104-01	TP-05	S HERB-8151	SOIL	DONE	U	1205	1202	S0	Glass-A.25
L1956104-02	TP-06	S HERB-8151	SOIL	DONE	U	1205	1202	S0	Glass-A.25
L1956104-03	TP-07	S HERB-8151	SOIL	DONE	U	1205	1202	S0	Glass-A.25
L1956104-04	TP-08	S HERB-8151	SOIL	DONE	U	1205	1202	S0	Glass-A.25
L1956104-05	TP-09	S HERB-8151	SOIL	DONE	U	1205	1202	S0	Glass-A.25
L1956104-06	TP-10	S HERB-8151	SOIL	DONE	U	1205	1202	S0	Glass-A.25
L1956104-07	TP-11	S HERB-8151	SOIL	DONE	U	1205	1202	S0	Glass-A.25
L1956104-08	TP-12	S HERB-8151	SOIL	DONE	U	1205	1202	S0	Glass-A.25
L1957320-01	19330-4	S HERB-8151	SOIL	DONE	U	1210	1203	1B	Glass-A.25
L1957321-01	19331-1	S HERB-8151	SOIL	DONE	U	1211	1203	1B	Glass-A.25
L1957339-03	PDI-1138RAB-00-10-191118	S HERB-8151	SOIL	DONE	U	1202	1213	S0	Glass-A.25
L1957339-04	PDI-138RAB-00-10-191118	S HERB-8151	SOIL	DONE	U	1202	1213	S0	Glass-A.25
L1957339-05	PDI-138RAB-10-19.1-191118	S HERB-8151	SOIL	DONE	U	1202	1213	S0	Glass-A.25
L1957339-07	PDI-139RAB-00-10-191115	S HERB-8151	SOIL	DONE	U	1129	1213	S0	Glass-A.25
L1957339-08	PDI-139RAB-10-20-191115	S HERB-8151	SOIL	DONE	U	1129	1213	S0	Glass-A.25
L1957339-11	PDI-145RAB-00-10-191114	S HERB-8151	SOIL	DONE	U	1128	1213	S0	Glass-A.25
L1957339-12	PDI-145RAB-10-20-191114	S HERB-8151	SOIL	DONE	U	1128	1213	S0	Glass-A.25
L1957339-13	PDI-145RAB-20-24.7-191114	S HERB-8151	SOIL	DONE	U	1128	1213	S0	Glass-A.25
WG1314990-1	Laboratory Method B1	S HERB-8151	SOIL	DONE	U				
WG1314990-2	Laboratory Control S	S HERB-8151	SOIL	DONE	U				
WG1314990-3	LCS Duplicate	S HERB-8151	SOIL	DONE	U				
WG1314990-4	Matrix Spike	S HERB-8151	SOIL	DONE	U				
WG1314990-5	Matrix Spike Duplica	S HERB-8151	SOIL	DONE	U				

Comments:

WG1314990-3 WG1314990-2
 WG1314990-4 L1957339-11
 WG1314990-5 L1957339-11

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Dec 13 2019, 10:42 am

Work Group: WG1315021 for Department: 2 Organic Preparation

Created: 28-NOV-19 Due: Operator: AR

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1957339-01	PDI-FB-1911191346	S HERB-8151	WATER	DONE	U	1126	1213	S0	Amber-A1
L1957339-02	PDI-RB-1911191254	S HERB-8151	WATER	DONE	U	1126	1213	S0	Amber-A1
WG1315021-1	Laboratory Method Bl	S HERB-8151	WATER	DONE	U				
WG1315021-2	Laboratory Control S	S HERB-8151	WATER	DONE	U				
WG1315021-3	LCS Duplicate	S HERB-8151	WATER	DONE	U				
Comments:									
WG1315021-3	WG1315021-2								

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Dec 13 2019, 10:42 am

Work Group: WG1315317 for Department: 2 Organic Preparation

Created: 01-DEC-19 Due: Operator: AR

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1957339-09	PDI-139RAB-20-25.5-191118	S HERB-8151	SOIL	DONE	U	1202	1213	S0	Glass-A.25
L1957339-18	PDI-135RAB-00-10-191120	S HERB-8151	SOIL	DONE	U	1204	1213	S0	Glass-A.25
L1957339-19	PDI-135RAB-10-20-191120	S HERB-8151	SOIL	DONE	U	1204	1213	S0	Glass-A.25
L1957339-21	PDI-136RAB-00-10-191119	S HERB-8151	SOIL	DONE	U	1203	1213	S0	Glass-A.25
L1957339-22	PDI-136RAB-10-13.4-191119	S HERB-8151	SOIL	DONE	U	1203	1213	S0	Glass-A.25
L1957339-24	PDI-137RAB-00-10-191119	S HERB-8151	SOIL	DONE	U	1203	1213	S0	Glass-A.25
L1957339-25	PDI-137RAB-10-17.7-191119	S HERB-8151	SOIL	DONE	U	1203	1213	S0	Glass-A.25
WG1315317-1	Laboratory Method Bl	S HERB-8151	SOIL	DONE	U				
WG1315317-2	Laboratory Control S	S HERB-8151	SOIL	DONE	U				
WG1315317-3	LCS Duplicate	S HERB-8151	SOIL	DONE	U				
WG1315317-4	Matrix Spike	S HERB-8151	SOIL	DONE	U				
WG1315317-5	Matrix Spike Duplica	S HERB-8151	SOIL	DONE	U				

Comments:

WG1315317-3 WG1315317-2
 WG1315317-4 L1957339-19
 WG1315317-5 L1957339-19

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Dec 13 2019, 10:42 am

Work Group: WG1316102 for Department: 2 Organic Preparation

Created: 03-DEC-19 Due: Operator: GN

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1956678-01	SBL-COMP	S HERB-8151	SOIL	DONE	U	1206	1204	S0	Glass-A.25
L1956692-01	BIN #2 SAMPLE #1	S HERB-8151	SOIL	DONE	U	1209	1204	S0	Glass-A.25
L1956692-02	BIN #2 SAMPLE #2	S HERB-8151	SOIL	DONE	U	1209	1204	S0	Glass-A.25
L1956692-03	BIN #3	S HERB-8151	SOIL	DONE	U	1209	1204	S0	Glass-A.25
L1956854-01	SB-108 (0-1)	S HERB-8151	SOIL	DONE	U	1209	1205	S0	Glass-A.25
L1956854-03	SB-107 (0-1)	S HERB-8151	SOIL	DONE	U	1209	1205	S0	Glass-A.25
L1956854-05	SB-102 (0-1)	S HERB-8151	SOIL	DONE	U	1209	1205	S0	Glass-A.25
L1956854-07	SB-103 (0-1)	S HERB-8151	SOIL	DONE	U	1209	1205	S0	Glass-A.25
L1956854-09	SB-106 (0-1)	S HERB-8151	SOIL	DONE	U	1209	1205	S0	Glass-A.25
L1956854-11	DUP-01-SOIL	S HERB-8151	SOIL	DONE	U	1209	1205	S0	Glass-A.25
L1957244-01	SB-101 (0-1)	S HERB-8151	SOIL	DONE	U	1210	1206	S0	Glass-A.25
L1957339-14	PDI-134RAB-00-10-191120	S HERB-8151	SOIL	DONE	U	1204	1213	S0	Glass-A.25
L1957339-15	PDI-134RAB-10-20-191120	S HERB-8151	SOIL	DONE	U	1204	1213	S0	Glass-A.25
L1957339-16	PDI-134RAB-20-25.5-191120	S HERB-8151	SOIL	DONE	U	1204	1213	S0	Glass-A.25
L1957339-20	PDI-135RAB-20-26.2-191120	S HERB-8151	SOIL	DONE	U	1204	1213	S0	Glass-A.25
WG1316102-1	Laboratory Method B1	S HERB-8151	SOIL	DONE	U				
WG1316102-2	Laboratory Control S	S HERB-8151	SOIL	DONE	U				
WG1316102-3	LCS Duplicate	S HERB-8151	SOIL	DONE	U				

Comments:

WG1316102-3 WG1316102-2

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Dec 13 2019, 10:42 am

Work Group: WG1316266 for Department: 2 Organic Preparation

Created: 04-DEC-19 Due: Operator: SD

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1957339-06	PDI-138RAB-C-00-19.1-191118	S HERB-TCLP*	SOIL	DONE	U	1202	1213	S0	EAmber-A1
L1957339-10	PDI-144RAB-C-00-29-191114	S HERB-TCLP*	SOIL	DONE	U	1128	1213	S0	EAmber-A1
L1957339-17	PDI-134RAB-C-00-25.5-191120	S HERB-TCLP*	SOIL	DONE	U	1204	1213	S0	EAmber-A1
L1957339-23	PDI-136RAB-C-00-13.4-191119	S HERB-TCLP*	SOIL	DONE	U	1203	1213	S0	EAmber-A1
WG1316266-1	Laboratory Method Bl	S HERB-TCLP*	SOIL	DONE	U				
WG1316266-2	Laboratory Control S	S HERB-TCLP*	SOIL	DONE	U				
WG1316266-3	LCS Duplicate	S HERB-TCLP*	SOIL	DONE	U				

Comments:

WG1316266-3 WG1316266-2

Sequence Logs

Dep.: Pest
Inst: Pest_17
Date: 09/03/19
Run: ical

Method: 8151
GC:



Seq: W61280590
Ical # 16100

Vial	Data File	Sample	CCAL	notes	initials
1	17190903i-01	blk			
2	17190903i-02	il1herb,42e,,9270			
3	17190903i-03	il2herb,42e,,9271			
4	17190903i-04	il3herb,42e,,9272			
5	17190903i-05	il4herb,42e,,9273			
6	17190903i-06	il5herb,42e,,9274			
7	17190903i-07	il6herb,42e,,9275			
8	17190903i-08	cicv,42e,,9404	may ↑	ARB	down ↓ ARB

Ica → Dichloroproc A, B ↑
MCPA A ↑
Silvex B ↑

191208ICAL

2019

Pest_22

Dep.: Pest
Inst: Pest_22
Date: **12/08/19**
Run: **ICAL**

Method: 8151
GC:
Seq: _____ ICAL



Vial	Data File	Sample	CCAL	notes	initials
1	22191208i-01	herb blank			
2	22191208i-02	iL1herb9499,42e,,			
3	22191208i-03	iL2herb9500,42e,,			
4	22191208i-04	iL3herb9501,42e,,			
5	22191208i-05	iL4herb9502,42e,,			
6	22191208i-06	iL5herb9503,42e,,			
7	22191208i-07	iL6herb9504,42e,,			
8	22191208i-08	herb cicv9495,42e,,			

Dep.: Pest
 Inst: Pest_17
 Date: 12/02/19
 Run: a

Method: 8151
 GC:



Seq: wg1315531

Vial	Data File	Sample	CCAL	notes	initials
1	17191202a-01	herb cc 9495			
2	17191202a-02	herb IB			
3	17191202a-03	l1955616-01,42e,,			
4	17191202a-04	wg1314828-1,42e,,			
5	17191202a-05	wg1314828-2,42e,,			
6	17191202a-06	wg1314828-3,42e,,			
7	17191202a-07	wg1315531-2,42e,, herb cc 9495			
8	17191202a-08	herb IB			
9	17191202a-09	wg1315154-1,42e,, apa 55 mcp 56mcp			
10	17191202a-10	wg1315154-2,42e,, apa 55 mcp 56mcp			
11	17191202a-11	wg1315154-3,42e,, apa 55 mcp 56mcp			
12	17191202a-12	l1956529-01,42e,, apa			
13	17191202a-13	l1956529-02,42e,, apa			
14	17191202a-14	l1956529-03,42e,, apa			
15	17191202a-15	l1956529-05,42e,, apa			
16	17191202a-16	l1956257-01,42e,, mcp			
17	17191202a-17	l1956195-08,42e,, apa			
18	17191202a-18	l1956494-03,42e,, apa			
19	17191202a-19	wg1315531-3,42e,, herb cc 9495			
20	17191202a-20	l1956494-05,42e,, apa			
21	17191202a-21	l1956494-06,42e,, apa			
22	17191202a-22	l1956494-07,42e,, apa			
23	17191202a-23	l1956494-08,42e,, apa			
24	17191202a-24	l1956108-01,42e,, rv apa			
25	17191202a-25	wg1315531-4,42e,, herb cc 9495			
26	17191202a-26	wg1314990-1,42e,,8151 5001 apa			
27	17191202a-27	wg1314990-2,42e,,8151 5001 apa			
28	17191202a-28	wg1314990-3,42e,,8151 5001 apa			
29	17191202a-29	l1957339-03,42e,, 8151			
30	17191202a-30	l1957339-04,42e,, 8151			
31	17191202a-31	l1957339-05,42e,, 8151			
32	17191202a-32	l1957321-01,42e,, 8151			
33	17191202a-33	l1957320-01,42e,, 8151			
34	17191202a-34	l1956104-01,42e,, 8151			
35	17191202a-35	l1956104-02,42e,, 8151			
36	17191202a-36	wg1315531-5,42e,, herb cc 9495			

Dep.: Pest
 Inst: Pest_17
 Date: 12/02/19
 Run: a

Method: 8151
 GC:



Seq: wg1315531

Vial	Data File	Sample	CCAL	notes	initials
37	17191202a-37	I1956104-03,42e,,	8151		
38	17191202a-38	I1956104-04,42e,,	8151		
39	17191202a-39	I1956104-05,42e,,	8151		
40	17191202a-40	I1956104-06,42e,,	8151		
41	17191202a-41	I1956104-07,42e,,	8151		
42	17191202a-42	I1956104-08,42e,,	8151		
43	17191202a-43	I1956108-03d,42e,20,	silvex		
44	17191202a-44	I1956108-04d,42e,20,	silvex		
45	17191202a-45	I1956108-05d,42e,20,	silvex		
46	17191202a-46	I1957144-02,42e,,	apa		
47	17191202a-47	wg1315531-6,42e,,	herb cc 9495		
48	17191202a-48	I1956550-01,42e,,	apa		
49	17191202a-49	I1956550-02,42e,,	apa		
50	17191202a-50	I1956550-03,42e,,	apa		
51	17191202a-51	I1956550-04,42e,,	apa		
52	17191202a-52	wg1314391-1,42e,,	4411 rr		
53	17191202a-53	wg1314391-2,42e,,	4411 rr		
54	17191202a-54	wg1314391-3,42e,,	4411 rr		
55	17191202a-55	I1956550-05,42e,,	apa		
56	17191202a-56	I1954985-08,42e,,	8151		
57	17191202a-57	I1954767-02,42e,,	t		
58	17191202a-58	wg1315531-7,42e,,	herb cc 9495		
59	17191202a-59	I1954767-04,42e,,	t		
60	17191202a-60	I1954141-05,42e,,	t		
61	17191202a-61	I1954141-03,42e,,	t		
62	17191202a-62	I1956416-01,42e,,	apa		
63	17191202a-63	I1956416-02,42e,,	apa		
64	17191202a-64	I1956416-03,42e,,	apa		
65	17191202a-65	I1956529-06,42e,,	apa		
66	17191202a-66	I1956550-06,42e,,	apa		
67	17191202a-67	I1956550-07,42e,,	apa		
68	17191202a-68	I1956550-08,42e,,	apa		
69	17191202a-69	wg1315531-8,42e,,	herb cc 9495		
70	17191202a-70	wg1314678-1,42e,,	apa		
71	17191202a-71	wg1314678-2,42e,,	apa		
72	17191202a-72	wg1314678-3,42e,,	apa		

Dep.: Pest
 Inst: Pest_17
 Date: 12/02/19
 Run: a

Method: 8151
 GC:



Seq: wg1315531

Vial	Data File	Sample	CCAL	notes	initials
73	17191202a-73	I1956550-09,42e,, apa			
74	17191202a-74	I1956550-10,42e,, apa			
75	17191202a-75	I1956550-12,42e,, apa			
76	17191202a-76	I1956555-01,42e,, apa			
77	17191202a-77	I1956555-02,42e,, apa			
78	17191202a-78	I1956555-03,42e,, apa			
79	17191202a-79	wg1315531-9,42e,, herb cc 9495			
80	17191202a-80	wg1315021-1,42e,, 20			
81	17191202a-81	wg1315021-2,42e,, 20			
82	17191202a-82	wg1315021-3,42e,, 20			
83	17191202a-83	I1956726-07,42e,, apa			
84	17191202a-84	I1956581-01,42e,, apa			
85	17191202a-85	I1956581-02,42e,, apa			
86	17191202a-86	I1956581-03,42e,, apa			
87	17191202a-87	I1956726-01,42e,, apa			
88	17191202a-88	I1956726-02,42e,, apa			
89	17191202a-89	I1956726-03,42e,, apa			
90	17191202a-90	wg1315531-10,42e,, herb cc 9495			
91	17191202a-91	I1956726-04,42e,, apa			
92	17191202a-92	I1956726-05,42e,, apa			
93	17191202a-93	I1956726-06,42e,, apa			
94	17191202a-94	I1956726-08,42e,, apa			
95	17191202a-95	I1956726-10,42e,, apa			
96	17191202a-96	I1956792-01,42e,, apa			
97	17191202a-97	I1954849-01,42e,, t			
98	17191202a-98	I1954849-02,42e,, t			
99	17191202a-99	wg1315531-11,42e,, herb cc 9495			
100	17191202a-100	wg1315026-1,42e,, t 27			
101	17191202a-101	wg1315026-2,42e,, t 27			
102	17191202a-102	wg1315026-3,42e,, t 27			
103	17191202a-103	I1954478-01,42e,, t			
104	17191202a-104	I1954478-03,42e,, t			
105	17191202a-105	I1954478-05,42e,, t			
106	17191202a-106	I1953897-02,42e,, t			
107	17191202a-107	wg1314962-1,42e,, t			
108	17191202a-108	wg1314962-2,42e,, t			

191202a

2019

Pest_17

Dep.: Pest
Inst: Pest_17
Date: 12/02/19
Run: a

Method: 8151
GC:
Seq: wg1315531



Vial	Data File	Sample	CCAL	notes	initials
109	17191202a-109	wg1314962-3,42e,, t			
110	17191202a-110	wg1315531-12,42e,, herb cc 9495			

Dep.: Pest
 Inst: Pest_17
 Date: 12/03/19
 Run: a

Method: 8151
 GC:



Seq: wg1316251

Vial	Data File	Sample	CCAL	notes	initials
1	17191203a-01	herb cc 9495			
2	17191203a-02	herb blank			
3	17191203a-03	wg1315261-1,42e,,317			
4	17191203a-04	wg1315261-2,42e,,317			
5	17191203a-05	wg1315261-3,42e,,317			
6	17191203a-06	l1956942-01,42e,,mcp			
7	17191203a-07	l1957339-19,42e,,p,8151			
8	17191203a-08	wg1315317-4,42e,,ms,8151			
9	17191203a-09	wg1315317-5,42e,,ms,8151			
10	17191203a-10	l1957339-02,42e,,8151			
11	17191203a-11	l1957339-01,42e,,8151			
12	17191203a-12	l1956726-08,42e,,apa,rv			
13	17191203a-13	herb cc 9495			
14	17191203a-14	l1956520-01,42e,,apa			
15	17191203a-15	l1956520-03,42e,,apa			
16	17191203a-16	l1956520-04,42e,,apa			
17	17191203a-17	l1956520-06,42e,,apa			
18	17191203a-18	l1956520-07,42e,,apa			
19	17191203a-19	l1956520-08,42e,,apa			
20	17191203a-20	l1956520-09,42e,,apa			
21	17191203a-21	l1956520-10,42e,,apa			
22	17191203a-22	l1956520-11,42e,,apa			
23	17191203a-23	l1956520-12,42e,,apa			
24	17191203a-24	herb cc 9495			
25	17191203a-25	l1956971-13,42e,,apa			
26	17191203a-26	l1956520-13,42e,,apa			
27	17191203a-27	l1956520-15,42e,,apa			
28	17191203a-28	wg1315432-1,42e,,t			
29	17191203a-29	wg1315432-2,42e,,t			
30	17191203a-30	wg1315432-3,42e,,t			
31	17191203a-31	l1957071-01,42e,,t			
32	17191203a-32	l1956621-32,42e,,t			
33	17191203a-33	l1956621-33,42e,,t			
34	17191203a-34	l1956621-39,42e,,t			
35	17191203a-35	herb cc 9495			
36	17191203a-36	wg1315151-1,42e,,t			

Dep.: Pest
 Inst: Pest_17
 Date: 12/03/19
 Run: a

Method: 8151
 GC:



Seq: wg1316251

Vial	Data File	Sample	CCAL	notes	initials
37	17191203a-37	wg1315151-2,42e,,t			
38	17191203a-38	wg1315151-3,42e,,t			
39	17191203a-39	l1955086-02,42e,,t			
40	17191203a-40	l1955086-04,42e,,t			
41	17191203a-41	l1955086-06,42e,,t			
87	17191203a-42	herb cc 9495			
88	17191203a-43	wg1316110-1,42e,, apa 02 8151			
89	17191203a-44	wg1316110-2,42e,, apa 02 8151			
90	17191203a-45	wg1316110-3,42e,, apa 02 8151			
91	17191203a-46	l1957476-01,42e,, apa			
92	17191203a-47	l1957476-02,42e,, apa			
93	17191203a-48	l1957522-01,42e,, apa			
94	17191203a-49	l1957522-02,42e,, apa			
95	17191203a-50	l1956678-01,42e,, 8151			
96	17191203a-51	herb cc 9495			
51	17191203a-52	l1956520-02,42e,,apa			
52	17191203a-53	l1956520-05,42e,,apa			
53	17191203a-54	l1956520-14,42e,,apa			
54	17191203a-55	l1956586-01,42e,,apa			
55	17191203a-56	l1956586-02,42e,,apa			
56	17191203a-57	l1956548-02,42e,,apa			
58	17191203a-58	l1956586-03,42e,,apa			
59	17191203a-59	l1956586-04,42e,,apa			
66	17191203a-60	l1956548-01,42e,,apa			
46	17191203a-61	herb cc 9495			
47	17191203a-62	wg1315152-1,42e,,t			
48	17191203a-63	wg1315152-2,42e,,t			
49	17191203a-64	wg1315152-3,42e,,t			
50	17191203a-65	l1956582-01,42e,,t			
57	17191203a-66	herb cc 9495			
60	17191203a-67	l1957047-01,42e,,apa			
61	17191203a-68	l1957047-02,42e,,apa			
62	17191203a-69	l1957376-01,42e,,apa			
63	17191203a-70	l1957376-02,42e,,apa			
64	17191203a-71	l1957376-03,42e,,apa			
65	17191203a-72	l1957376-04,42e,,apa			

Dep.: Pest
 Inst: Pest_17
 Date: 12/03/19
 Run: a

Method: 8151
 GC:



Seq: wg1316251

Vial	Data File	Sample	CCAL	notes	initials
67	17191203a-73	herb cc 9495			
68	17191203a-74	wg1315585-1,42e,,t			
69	17191203a-75	wg1315585-2,42e,,t			
70	17191203a-76	wg1315585-3,42e,,t			
71	17191203a-77	l1956720-02,42e,,t			
72	17191203a-78	l1956720-03,42e,,t			
73	17191203a-79	l1956720-04,42e,,t			
74	17191203a-80	l1956720-05,42e,,t			
75	17191203a-81	l1956720-06,42e,,t			
76	17191203a-82	l1956720-07,42e,,t			
77	17191203a-83	l1956720-08,42e,,t			
78	17191203a-84	herb cc 9495			
79	17191203a-85	wg1315584-1,42e,,t			
80	17191203a-86	wg1315584-2,42e,,t			
81	17191203a-87	wg1315584-3,42e,,t			
82	17191203a-88	l1955676-04,42e,,t			
83	17191203a-89	l1956720-01,42e,,t			
84	17191203a-90	l1957042-01,42e,,t			
85	17191203a-91	l1957043-01,42e,,t			
86	17191203a-92	herb cc 9495			
97	17191203a-93	l1956692-01,42e,, 8151			
98	17191203a-94	l1956692-02,42e,, 8151			
99	17191203a-95	l1956692-03,42e,, 8151			
100	17191203a-96	l1957339-07,42e,, 8151			
101	17191203a-97	l1957339-08,42e,, 8151			
102	17191203a-98	l1957339-13,42e,, 8151			
103	17191203a-99	l1957339-11,42e,, 8151			
104	17191203a-100	wg1314990-4,42e,, 8151			
105	17191203a-101	wg1314990-5,42e,, 8151			
106	17191203a-102	l1957339-12,42e,, 8151			
107	17191203a-103	herb cc 9495			

Dep.: Pest
 Inst: Pest_17
 Date: 12/06/19
 Run: A

Method: 8151
 GC:



Seq: wg1317631

Vial	Data File	Sample	CCAL	notes	initials
1	17191206a-01	herb 9495			
2	17191206a-02	OPREP IS test			
3	17191206a-03	l1956621-04,42e,, t			
4	17191206a-04	l1956621-10,42e,, t			
5	17191206a-05	l1956621-20,42e,, t			
6	17191206a-06	l1956621-26,42e,, t			
7	17191206a-07	l1956621-32,42e,, t			
8	17191206a-08	l1956621-33,42e,, t			
9	17191206a-09	l1956621-39,42e,, t			
10	17191206a-10	wg1317261-1,42e,, t			
11	17191206a-11	wg1317261-2,42e,, t			
12	17191206a-12	wg1317261-3,42e,, t			
13	17191206a-13	wg1317631-2,42e,,herb cc 9495			
14	17191206a-14	l1957227-01,42e,, t re			
15	17191206a-15	wg1316637-1,42e,, t 13			
16	17191206a-16	wg1316637-2,42e,, t 13			
17	17191206a-17	wg1316637-3,42e,, t 13			
18	17191206a-18	l1957687-01,42e,, t			
19	17191206a-19	wg1317631-3,42e,,herb cc 9495			
20	17191206a-20	l1957376-03,42e,, t			
21	17191206a-21	l1956548-01,42e,, apa			
22	17191206a-22	l1956692-01,42e,, 8151 rv			
23	17191206a-23	l1956692-02,42e,, 8151 rv			
24	17191206a-24	l1956692-03,42e,, 8151 rv			
25	17191206a-25	l1956854-01,42e,, 8151 rv			
26	17191206a-26	l1956854-03,42e,, 8151 rv			
27	17191206a-27	l1956854-05,42e,, 8151 rv			
28	17191206a-28	l1956854-07,42e,, 8151 rv			
29	17191206a-29	l1956854-09,42e,, 8151 rv			
30	17191206a-30	wg1317631-4,42e,, herb cc 9495			
31	17191206a-31	l1956854-11,42e,, 8151 rv			
32	17191206a-32	l1957244-01,42e,, 8151 rv			
33	17191206a-33	l1957244-07,42e,, mcp			
34	17191206a-34	l1958136-02,42e,, mcp			
35	17191206a-35	wg1317128-1,42e,, mcp 30 apa			
36	17191206a-36	wg1317128-2,42e,, mcp 30 apa			

Dep.: Pest
 Inst: Pest_17
 Date: 12/06/19
 Run: A

Method: 8151
 GC:



Seq: wg1317631

Vial	Data File	Sample	CCAL	notes	initials
37	17191206a-37	wg1317128-3,42e,, mcp 30 apa			
38	17191206a-38	l1957151-01,42e,, NJ apa			
39	17191206a-39	wg1317631-5,42e,, herb cc 9495			
40	17191206a-40	l1957151-02,42e,, NJ apa P			
41	17191206a-41	wg1316548-4,42e,, NJ apa MS			
42	17191206a-42	wg1316548-5,42e,, NJ apa Dup			
43	17191206a-43	l1957151-03,42e,, NJ apa			
44	17191206a-44	l1957151-04,42e,, NJ apa			
45	17191206a-45	l1957151-05,42e,, NJ apa			
46	17191206a-46	l1957151-06,42e,, NJ apa			
47	17191206a-47	l1957151-07,42e,, NJ apa			
48	17191206a-48	l1957151-08,42e,, NJ apa			
49	17191206a-49	l1957151-09,42e,, NJ apa			
50	17191206a-50	wg1317631-6,42e,, herb cc9495			
51	17191206a-51	l1957151-10,42e,, NJ apa			
52	17191206a-52	l1957151-11,42e,, NJ apa			
53	17191206a-53	l1956858-01,42e,, apa			
54	17191206a-54	wg1316818-1,42e,, NJ apa 19 8151 20 apa			
55	17191206a-55	wg1316818-2,42e,, NJ apa 19 8151 20 apa			
56	17191206a-56	wg1316818-3,42e,, NJ apa 19 8151 20 apa			
57	17191206a-57	l1957244-03,42e,, 8151			
58	17191206a-58	l1957244-05,42e,, 8151			
59	17191206a-59	l1957191-01,42e,, 8151			
60	17191206a-60	wg1317631-7,42e,, herb cc 9495			
61	17191206a-61	l1955195-01,42e,, NJ apa P			
62	17191206a-62	wg1316818-4,42e,, NJ apa MS			
63	17191206a-63	wg1316818-5,42e,, NJ apa MSD			
64	17191206a-64	l1955194-06,42e,, NJ apa			
65	17191206a-65	wg1316818-6,42e,, NJ apa MS			
66	17191206a-66	wg1316818-7,42e,, NJ apa MSD			
67	17191206a-67	l1957492-01,42e,, apa			
68	17191206a-68	l1957733-01,42e,, apa			
69	17191206a-69	l1957733-02,42e,, apa			
70	17191206a-70	l1957733-03,42e,, apa			
71	17191206a-71	wg1317631-8,42e,, herb cc 9495			
72	17191206a-72	l1957733-04,42e,, apa			

Dep.: Pest
 Inst: Pest_17
 Date: 12/06/19
 Run: A

Method: 8151
 GC:



Seq: wg1317631

Vial	Data File	Sample	CCAL	notes	initials
73	17191206a-73	I1957733-05,42e,, apa			
74	17191206a-74	I1957733-06,42e,, apa			
75	17191206a-75	I1957733-07,42e,, apa			
76	17191206a-76	I1957733-08,42e,, apa			
77	17191206a-77	I1957733-09,42e,, apa			
78	17191206a-78	I1957733-10,42e,, apa			
79	17191206a-79	I1957968-01,42e,, apa			
80	17191206a-80	I1957968-02,42e,, apa			
81	17191206a-81	I1957968-03,42e,, apa			
82	17191206a-82	wg1317631-9,42e,, herb cc 9495			
83	17191206a-83	I1957968-07,42e,, apa			
84	17191206a-84	I1957968-08,42e,, apa			
85	17191206a-85	I1957968-09,42e,, apa			
86	17191206a-86	I1957339-07,42e,, 8151			
87	17191206a-87	I1957339-08,42e,, 8151			
88	17191206a-88	I1957339-09,42e,, 8151			
89	17191206a-89	I1957339-11,42e,, 8151 P			
90	17191206a-90	wg1314990-4,42e,, 8151 MS			
91	17191206a-91	wg1314990-5,42e,, 8151 MSD			
92	17191206a-92	I1957339-12,42e,, 8151			
93	17191206a-93	wg1317631-10,42e,, herb cc 9495			
94	17191206a-94	I1957339-13,42e,, 8151			
95	17191206a-95	I1957339-14,42e,, 8151 rv			
96	17191206a-96	I1957339-15,42e,, 8151 rv			
97	17191206a-97	I1957339-16,42e,, 8151 rv			
98	17191206a-98	I1957339-18,42e,, 8151			
99	17191206a-99	I1957339-20,42e,, 8151			
100	17191206a-100	I1957339-21,42e,, 8151			
101	17191206a-101	I1957339-22,42e,, 8151			
102	17191206a-102	I1957339-24,42e,, 8151			
103	17191206a-103	I1957339-25,42e,, 8151			
104	17191206a-104	wg1317631-11,42e,, herb cc 9495			

Dep.: Pest
 Inst: Pest_22
 Date: 12/10/19
 Run: a

Method: 8151
 GC:



Seq: wg1318866 _____

Vial	Data File	Sample	CCAL	notes	initials
1	22191210a-01	herb cc 9495			
2	22191210a-02	l1958350-01,42e,, t			
3	22191210a-03	wg1318188-1,42e,, t			
4	22191210a-04	wg1318188-2,42e,, t			
5	22191210a-05	wg1318188-3,42e,, t			
6	22191210a-06	wg1318866-2,42e,, herb cc 9495			
7	22191210a-07	wg1318643-1,42e,, t			
8	22191210a-08	wg1318643-2,42e,, t			
9	22191210a-09	wg1318643-3,42e,, t			
10	22191210a-10	l1956720-01,42e,, t			
11	22191210a-11	l1957774-01,42e,, t			
12	22191210a-12	l1958187-01,42e,, t			
13	22191210a-13	wg1318029-1,42e,, t 25			
14	22191210a-14	wg1318029-2,42e,, t 25			
15	22191210a-15	wg1318029-3,42e,, t 25			
16	22191210a-16	wg1318866-3,42e,, herb cc 9495			
17	22191210a-17	wg1318345-1,42e,, t			
18	22191210a-18	wg1318345-2,42e,, t			
19	22191210a-19	wg1318345-3,42e,, t			
20	22191210a-20	l1958616-07,42e,, t			
21	22191210a-21	l1958616-08,42e,, t			
22	22191210a-22	l1958635-01,42e,, t			
23	22191210a-23	l1958635-02,42e,, t			
24	22191210a-24	l1958638-01,42e,, t			
25	22191210a-25	l1958638-02,42e,, t			
26	22191210a-26	wg1318866-4,42e,, herb cc 9495			
27	22191210a-27	wg1316266-1,42e,, t			
28	22191210a-28	wg1316266-2,42e,, t			
29	22191210a-29	wg1316266-3,42e,, t			
30	22191210a-30	l1957339-17,42e,, t			
31	22191210a-31	l1957339-23,42e,, t			
32	22191210a-32	l1957339-06,42e,, t			
33	22191210a-33	l1957339-10,42e,, t			
34	22191210a-34	wg1318866-5,42e,, herb cc 9495			
35	22191210a-35	wg1315025-1,42e,, splp			
36	22191210a-36	wg1315025-2,42e,, splp			

191210a

2019

Pest_22

Dep.: Pest
Inst: Pest_22
Date: 12/10/19
Run: a

Method: 8151
GC:



Seq: wg1318866 _____

Vial	Data File	Sample	CCAL	notes	initials
37	22191210a-37	wg1315025-3,42e,, splp			
38	22191210a-38	l1955196-01,42e,, splp			
39	22191210a-39	wg1315025-4,42e,, splp			
40	22191210a-40	wg1315025-5,42e,, splp			
41	22191210a-41	wg1318866-6,42e,, herb cc 9495			

Analytical Event

Continuing Calibration

Evaluate Continuing Calibration Report

Data Path : I:\Pest17\191202A\
 Data File : 17191202a-25.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Dec 2019 8:12 pm
 Operator : PEST17:dgm
 Sample : wg1315531-4,42e,, herb cc 9495
 Misc : wg1315531,wg1314714,ical16100
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 03 11:24:55 2019
 Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Sat Nov 16 15:53:00 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 i	4,4'-DBOB	0.250	0.250	0.0	86	-0.02
2 t	Dalapon	0.182	0.227	-24.7#	108	-0.02
3 s	DCAA (surrogate)	0.188	0.190	-1.1	83	-0.03
4 t	Dicamba	0.188	0.197	-4.8	93	-0.03
5 t	MCPP	18.800	20.757	-10.4	95	-0.03
6 t	MCPA	18.600	19.634	-5.6	98	-0.03
7 t	Dichloroprop	0.188	0.191	-1.6	98	-0.02
8 t	2,4-D	0.188	0.193	-2.7	91	-0.02
9 t	2,4,5-TP (Silvex)	0.190	0.190	0.0	90	-0.02
10 t	2,4,5-T	0.190	0.184	3.2	84	-0.02
11 t	2,4-DB	0.192	0.162	15.6#	74	-0.02
12 t	Dinoseb	0.190	0.310	-63.2#	165	-0.02

Signal #2

1 i	4,4'-DBOB	0.250	0.250	0.0	94	-0.02
2 t	Dalapon	0.182	0.216	-18.7#	119	-0.01
3 s	DCAA (surrogate)	0.188	0.176	6.4	86	-0.02
4 t	Dicamba	0.188	0.187	0.5	97	-0.03
5 t	MCPP	18.800	17.993	4.3	93	-0.02
6 t	MCPA	18.600	19.762	-6.2	97	-0.02
7 t	Dichloroprop	0.188	0.200	-6.4	107	-0.02
8 t	2,4-D	0.188	0.192	-2.1	101	-0.02
9 t	2,4,5-TP (Silvex)	0.190	0.213	-12.1	111	-0.02
10 t	2,4,5-T	0.190	0.201	-5.8	108	-0.02
11 t	2,4-DB	0.192	0.190	1.0	98	-0.02
12 t	Dinoseb	0.190	0.332	-74.7#	178	-0.02

Evaluate Continuing Calibration Report - Not Found

Evaluate Continuing Calibration Report

Data Path : I:\Pest17\191202A\
 Data File : 17191202a-25.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Dec 2019 8:12 pm
 Operator : PEST17:dgm
 Sample : wg1315531-4,42e,, herb cc 9495
 Misc : wg1315531,wg1314714,ical16100
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 03 11:24:55 2019
 Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Sat Nov 16 15:53:00 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

Signal #2					

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191202A\
 Data File : 17191202a-25.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Dec 2019 8:12 pm
 Operator : PEST17:dgm
 Sample : wg1315531-4,42e,, herb cc 9495
 Misc : wg1315531,wg1314714,ical16100
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 03 11:24:55 2019
 Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Sat Nov 16 15:53:00 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Internal Standards							
1) i	4,4'-DFOB	8.625f	8.635f	581.4E6	617.7E6	0.250	0.250
System Monitoring Compounds							
3) s	DCAA (surrog	7.087f	7.567f	71727914	87172614	0.190	0.176
	Spiked Amount	0.500	Range	30 - 150	Recovery =	38.00%	35.20%
Target Compounds							
2) t	Dalapon	2.064f	2.129	73978043	83879266	0.227	0.216
4) t	Dicamba	7.272f	7.750f	226.3E6	261.3E6	0.197	0.187
5) t	MCPP	7.472f	7.860f	31515237	35126808	20.757M4	17.993
6) t	MCPA	7.620f	8.087f	54179062	59466072	19.634	19.762M4
7) t	Dichloroprop	7.977f	8.405f	72544078	83859304	0.191	0.200
8) t	2,4-D	8.198f	8.685f	83075915	105.1E6	0.193	0.192
9) t	2,4,5-TP (Si	8.905f	9.339f	311.7E6	376.0E6	0.190	0.213
10) t	2,4,5-T	9.126f	9.628f	318.6E6	356.6E6	0.184	0.201
11) t	2,4-DB	9.531f	9.990f	45871809	59802395	0.162	0.190
12) t	Dinoseb	10.262f	10.209f	197.3E6	208.2E6	0.310	0.332

SemiQuant Compounds - Not Calibrated on this Instrument

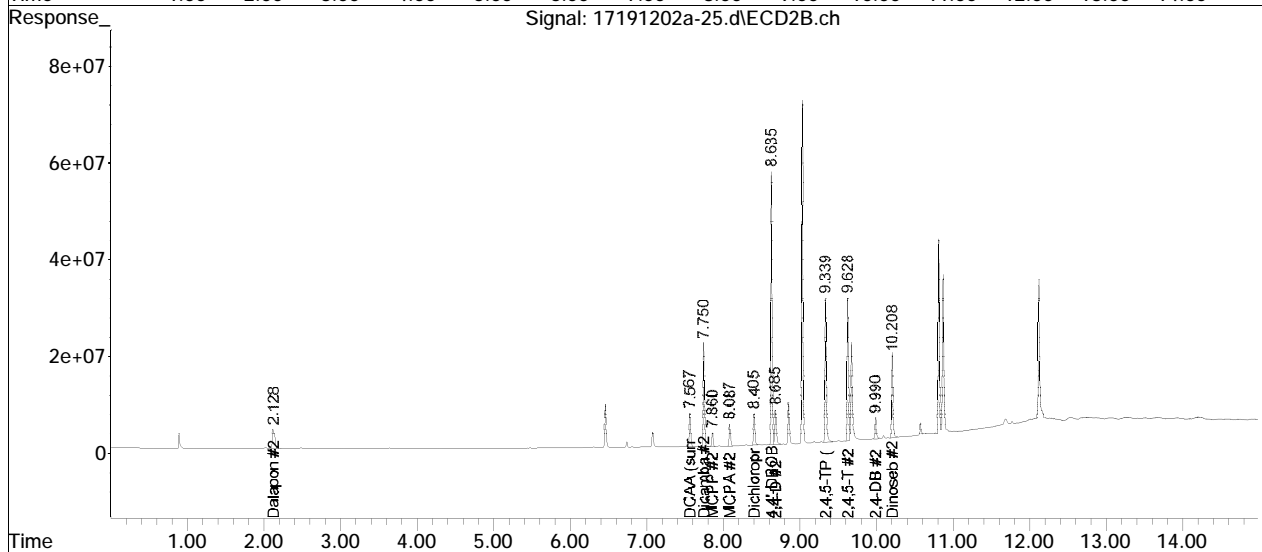
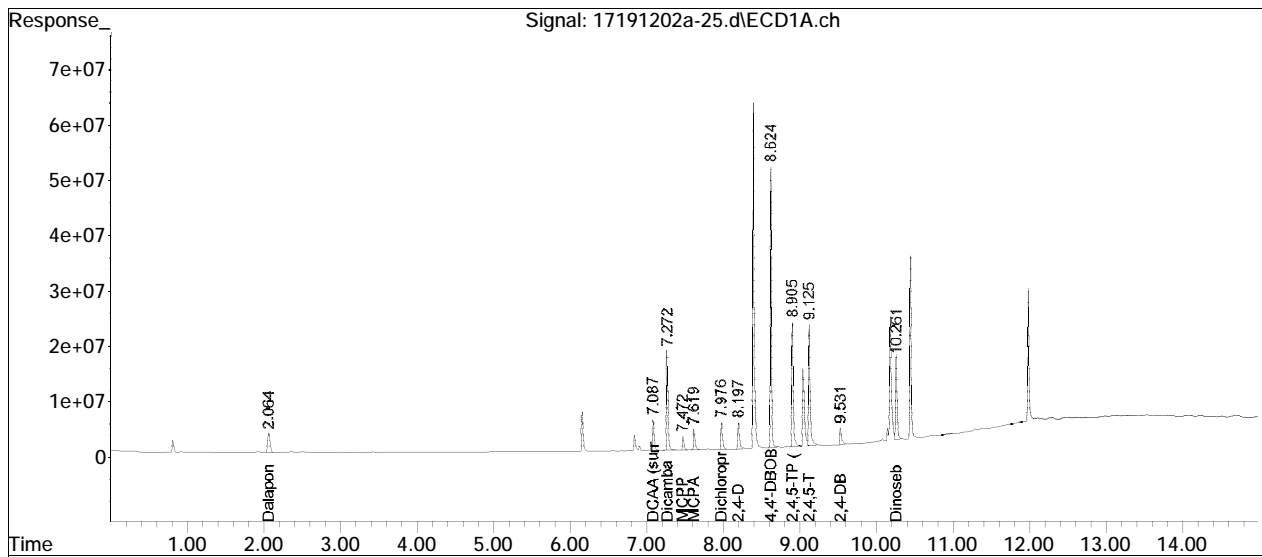
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest17\191202A\
Data File : 17191202a-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Dec 2019 8:12 pm
Operator : PEST17:dgm
Sample : wg1315531-4,42e,, herb cc 9495
Misc : wg1315531,wg1314714,ical16100
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 11:24:55 2019
Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Sat Nov 16 15:53:00 2019
Response via : Initial Calibration
Integrator: ChemStation

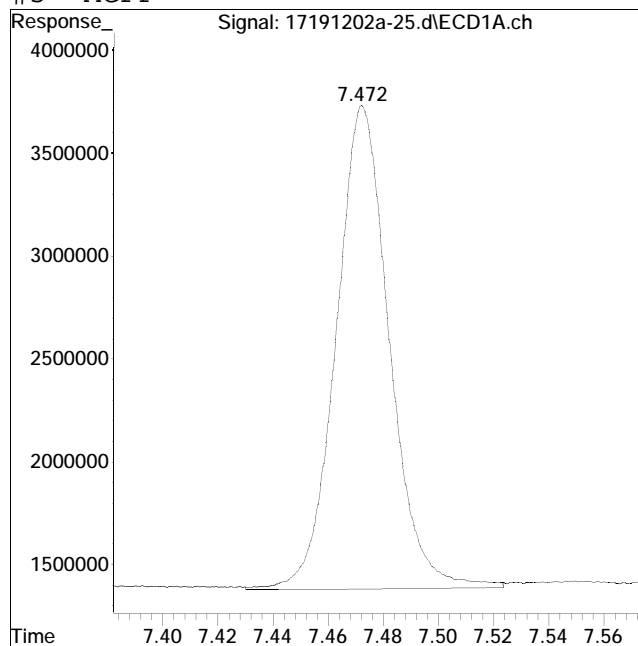
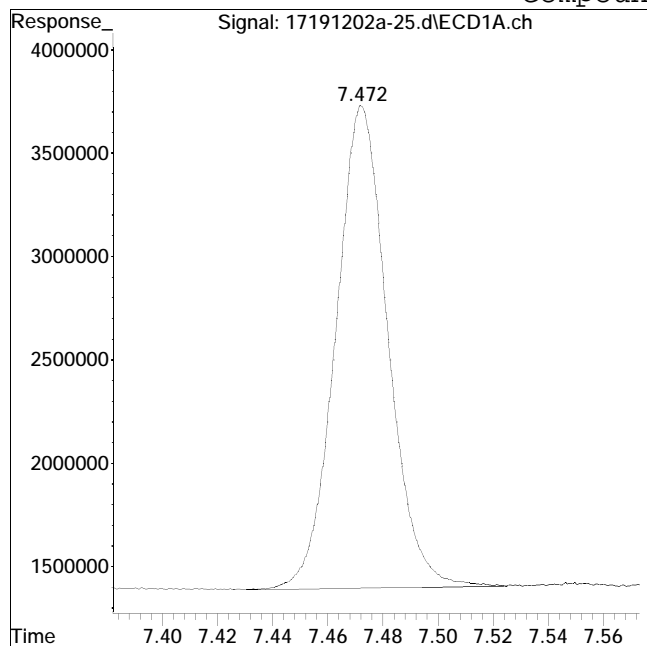
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest17\191202A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191202a-25.d Operator : PEST17:dgm
Date Inj'd : 12/2/2019 8:12 pm Instrument : Pest 17
Sample : wg1315531-4,42e,, herb cc Quant Date : 12/3/2019 11:23 am

Compound #5: MCPP



Original Peak Response = 30650267

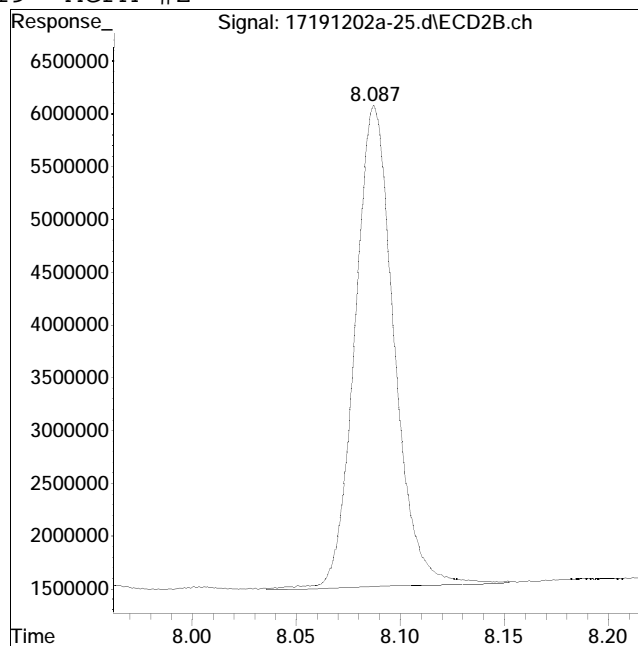
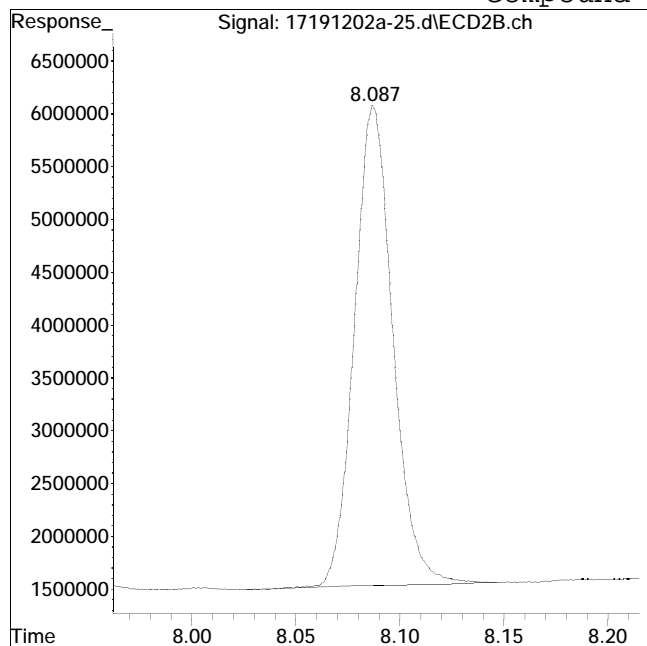
Manual Peak Response = 31515237 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191202A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191202a-25.d Operator : PEST17:dgm
Date Inj'd : 12/2/2019 8:12 pm Instrument : Pest 17
Sample : wg1315531-4,42e,, herb cc Quant Date : 12/3/2019 11:23 am

Compound #19: MCPA #2



Original Peak Response = 58341622

Manual Peak Response = 59466072 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\Pest17\191202A\
 Data File : 17191202a-36.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Dec 2019 11:35 pm
 Operator : PEST17:dgm
 Sample : wg1315531-5,42e,, herb cc 9495
 Misc : wg1315531,wg1314714,ical16100
 ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 03 11:46:45 2019
 Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 i	4,4'-DBOB	0.250	0.250	0.0	87	0.00
2 t	Dalapon	0.182	0.234	-28.6#	112	0.00
3 s	DCAA (surrogate)	0.188	0.189	-0.5	83	0.00
4 t	Dicamba	0.188	0.195	-3.7	93	0.00
5 t	MCPD	18.800	20.368	-8.3	94	0.00
6 t	MCPA	18.600	19.434	-4.5	98	0.00
7 t	Dichloroprop	0.188	0.190	-1.1	99	0.00
8 t	2,4-D	0.188	0.193	-2.7	91	0.00
9 t	2,4,5-TP (Silvex)	0.190	0.189	0.5	90	0.00
10 t	2,4,5-T	0.190	0.186	2.1	86	0.00
11 t	2,4-DB	0.192	0.155	19.3#	72	0.00
12 t	Dinoseb	0.190	0.338	-77.9#	182	0.00

Signal #2

1 i	4,4'-DBOB	0.250	0.250	0.0	95	0.00
2 t	Dalapon	0.182	0.213	-17.0#	119	0.00
3 s	DCAA (surrogate)	0.188	0.175	6.9	87	0.00
4 t	Dicamba	0.188	0.186	1.1	98	0.00
5 t	MCPD	18.800	17.957	4.5	94	0.00
6 t	MCPA	18.600	19.369	-4.1	97	0.00
7 t	Dichloroprop	0.188	0.196	-4.3	107	0.00
8 t	2,4-D	0.188	0.192	-2.1	102	0.00
9 t	2,4,5-TP (Silvex)	0.190	0.211	-11.1	112	0.00
10 t	2,4,5-T	0.190	0.201	-5.8	110	0.00
11 t	2,4-DB	0.192	0.188	2.1	98	0.00
12 t	Dinoseb	0.190	0.375	-97.4#	204	0.00

Evaluate Continuing Calibration Report - Not Found

Evaluate Continuing Calibration Report

Data Path : I:\Pest17\191202A\
Data File : 17191202a-36.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Dec 2019 11:35 pm
Operator : PEST17:dgm
Sample : wg1315531-5,42e,, herb cc 9495
Misc : wg1315531,wg1314714,ical16100
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 11:46:45 2019
Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

Signal #2					

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191202A\
 Data File : 17191202a-36.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Dec 2019 11:35 pm
 Operator : PEST17:dgm
 Sample : wg1315531-5,42e,, herb cc 9495
 Misc : wg1315531,wg1314714,ical16100
 ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 03 11:46:45 2019
 Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Internal Standards							
1) i	4,4'-DFOB	8.624	8.634	585.6E6	627.0E6	0.250	0.250
System Monitoring Compounds							
3) s	DCAA (surrog	7.087	7.567	71805534	88048012	0.189	0.175
	Spiked Amount	0.500	Range 30 - 150	Recovery =		37.80%	35.00%
Target Compounds							
2) t	Dalapon	2.060	2.124	76796981	84108332	0.234	0.213
4) t	Dicamba	7.271	7.749	225.3E6	263.9E6	0.195	0.186
5) t	MCPD	7.472	7.860	31150939	35579099	20.368	17.957
6) t	MCPA	7.619	8.087	54223439	59155654	19.434	19.369
7) t	Dichloroprop	7.976	8.404	72781548	83591349	0.190	0.196
8) t	2,4-D	8.196	8.684	83468009	106.9E6	0.193	0.192
9) t	2,4,5-TP (Si	8.904	9.338	312.9E6	378.6E6	0.189	0.211
10) t	2,4,5-T	9.124	9.627	323.4E6	362.4E6	0.186	0.201
11) t	2,4-DB	9.529	9.989	44186237	60190121	0.155	0.188
12) t	Dinoseb	10.260	10.208	218.1E6	238.9E6	0.338M4	0.375

SemiQuant Compounds - Not Calibrated on this Instrument

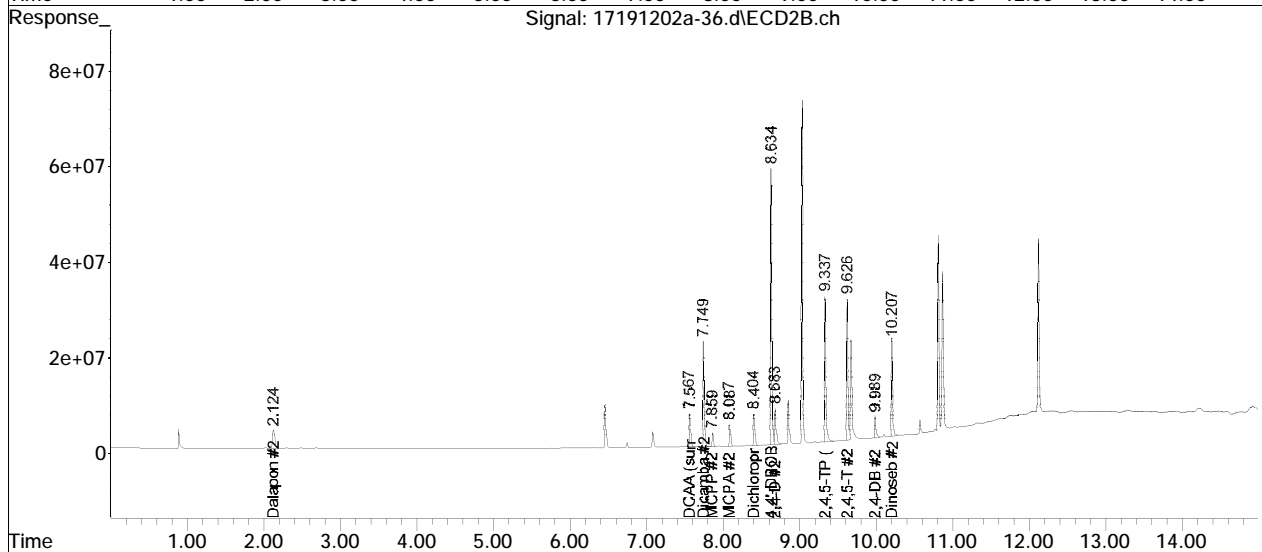
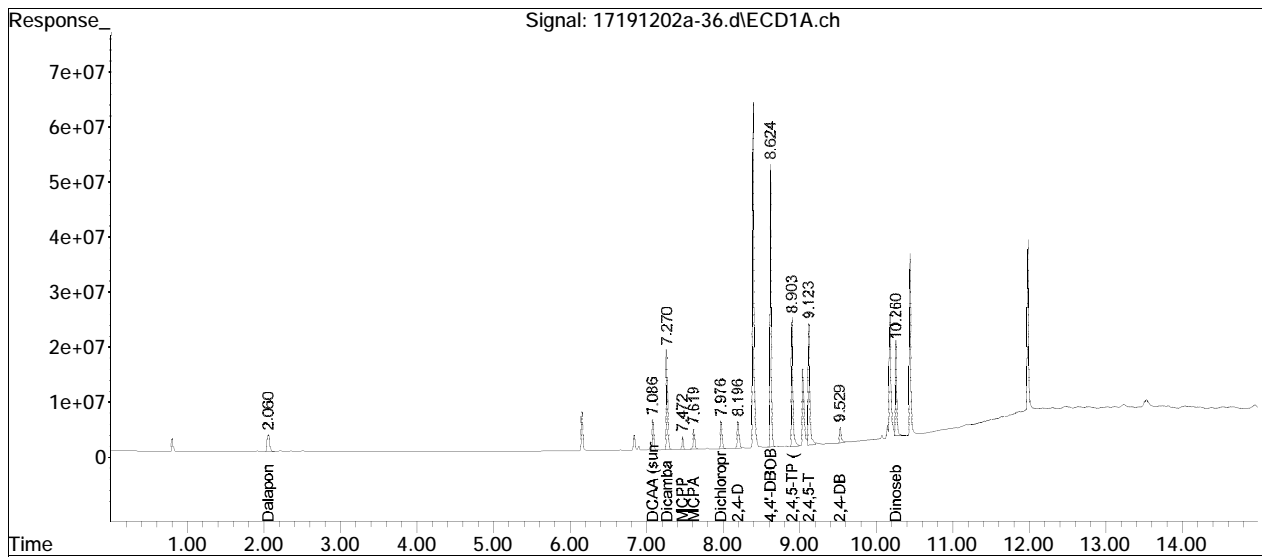
 (f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coeluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest17\191202A\
Data File : 17191202a-36.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Dec 2019 11:35 pm
Operator : PEST17:dgm
Sample : wg1315531-5,42e,, herb cc 9495
Misc : wg1315531,wg1314714,ical16100
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 11:46:45 2019
Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

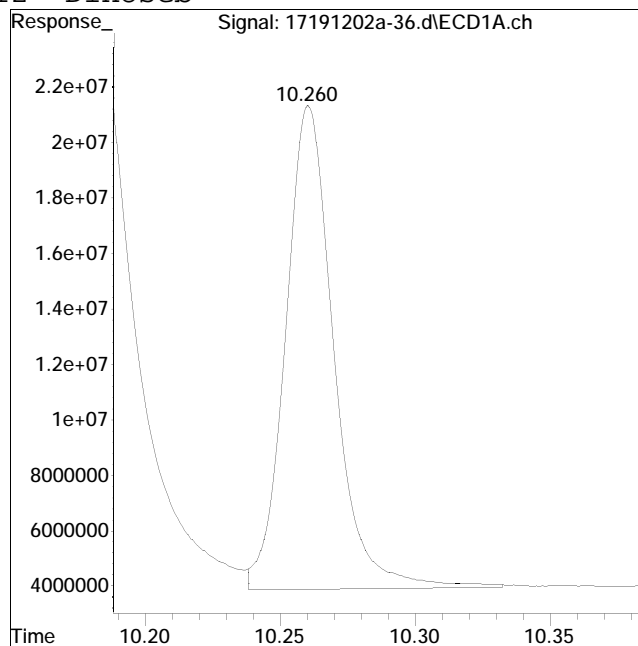
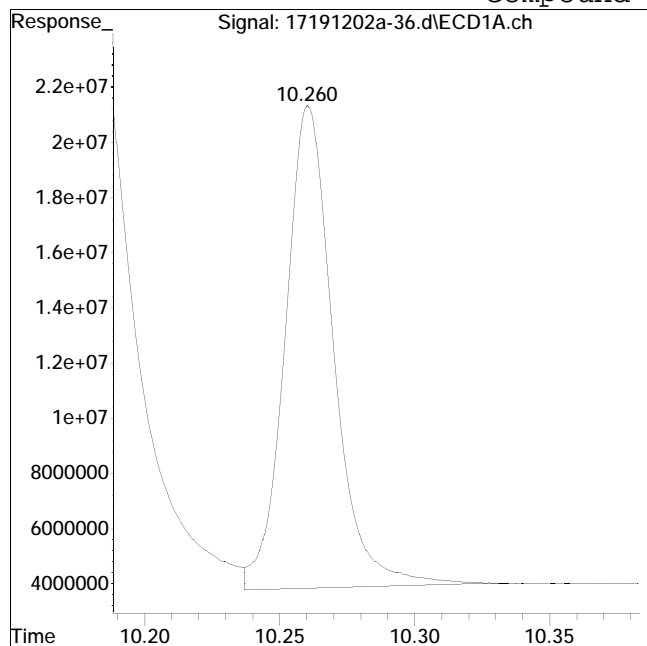
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest17\191202A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191202a-36.d Operator : PEST17:dgm
Date Inj'd : 12/2/2019 11:35 pm Instrument : Pest 17
Sample : wg1315531-5,42e,, herb cc Quant Date : 12/3/2019 11:45 am

Compound #12: Dinoseb



Original Peak Response = 219779699

Manual Peak Response = 218089613 M4

M4 = Poor automated baseline construction.

Sample Raw Data

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191202A\
 Data File : 17191202a-29.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Dec 2019 9:26 pm
 Operator : PEST17:dgm
 Sample : 11957339-03,42e,, 8151
 Misc : wgl1315531,wgl1314990,ical16100
 ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 03 17:32:14 2019
 Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191202A\17191202a-25.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.624	8.635	950.7E6	1009.0E6	0.250	0.250
Standard Area 1 : #1 = 581370477					Recovery =	163.53%
Standard Area 1 : #2 = 617736738					Recovery =	163.34%
System Monitoring Compounds						
3) s DCAA (surrog	7.086	7.567	198.9E6	232.1E6	0.322	0.287
Spiked Amount	0.500	Range 30 - 150			Recovery =	64.40%
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D.	N.D. d
4) t Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t MCPP	0.000	0.000	0	0	N.D.	N.D. d
6) t MCPA	0.000	0.000	0	0	N.D.	N.D. d
7) t Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D.	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

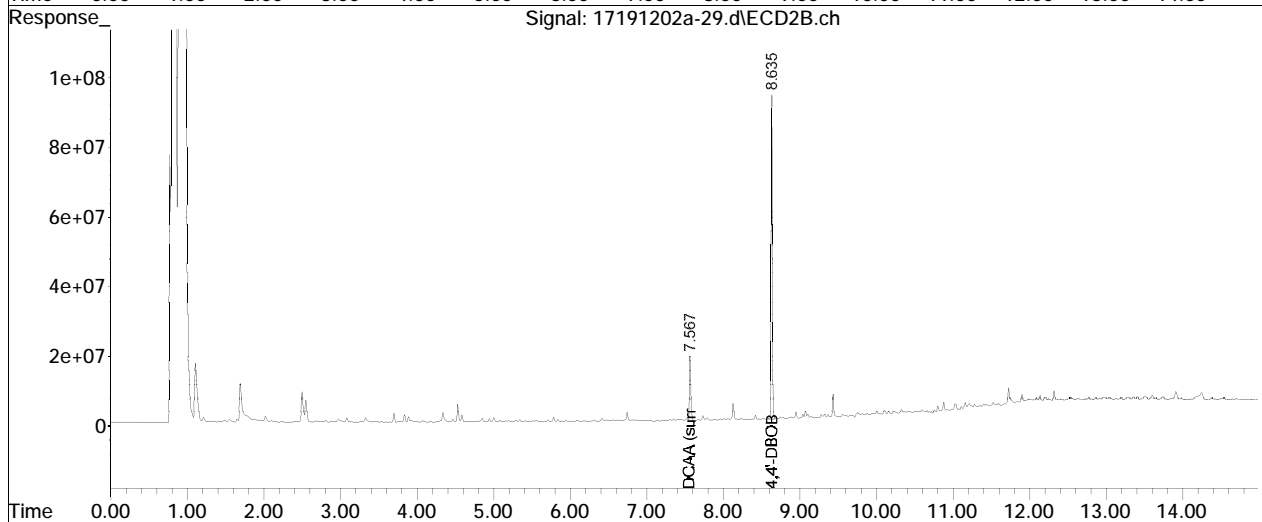
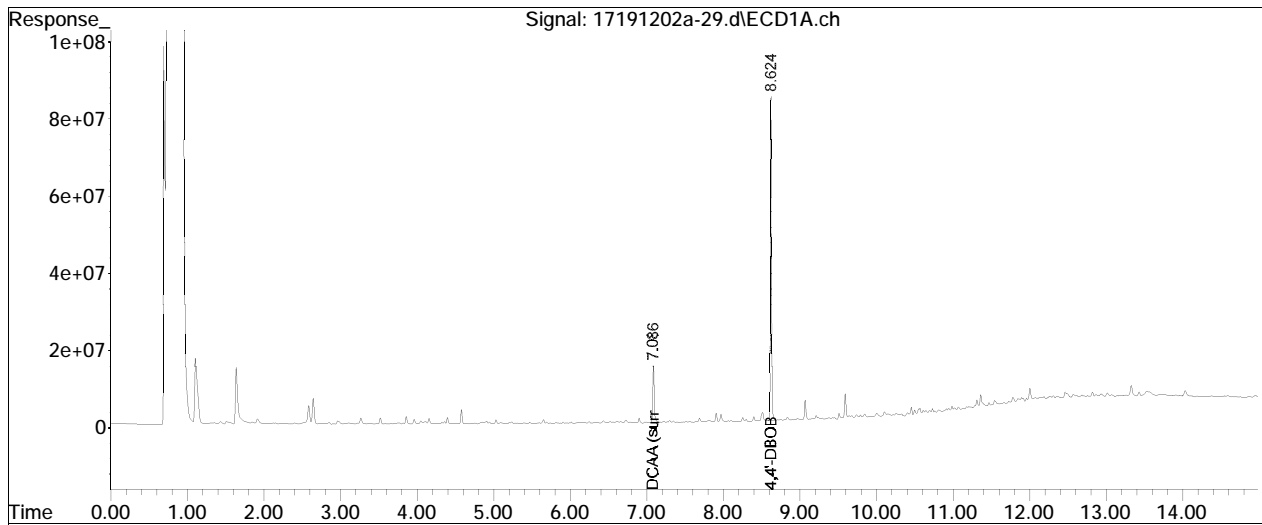
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed a-25.d••d)

Data Path : I:\Pest17\191202A\
Data File : 17191202a-29.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Dec 2019 9:26 pm
Operator : PEST17:dgm
Sample : 11957339-03,42e,, 8151
Misc : wg1315531,wg1314990,ical16100
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 17:32:14 2019
Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest17\191202A\	QMethod	: Herb17_09_03_ICAL16100.m
Data File	: 17191202a-29.d	Operator	: PEST17:dgm
Date Inj'd	: 12/2/2019 9:26 pm	Instrument	: Pest 17
Sample	: 11957339-03,42e,, 8151	Quant Date	: 12/3/2019 5:31 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191202A\
 Data File : 17191202a-30.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Dec 2019 9:44 pm
 Operator : PEST17:dgm
 Sample : 11957339-04,42e,, 8151
 Misc : wgl1315531,wgl1314990,ical16100
 ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 03 17:34:24 2019
 Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191202A\17191202a-25.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.624	8.634	938.0E6	1004.5E6	0.250	0.250
Standard Area 1 : #1 = 581370477					Recovery =	161.34%
Standard Area 1 : #2 = 617736738					Recovery =	162.60%
System Monitoring Compounds						
3) s DCAA (surrog	7.086	7.567	192.7E6	222.0E6	0.316	0.276
Spiked Amount	0.500	Range 30 - 150			Recovery =	63.20% 55.20%
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D.	N.D. d
4) t Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t MCPA	0.000	0.000	0	0	N.D.	N.D.
7) t Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D.	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

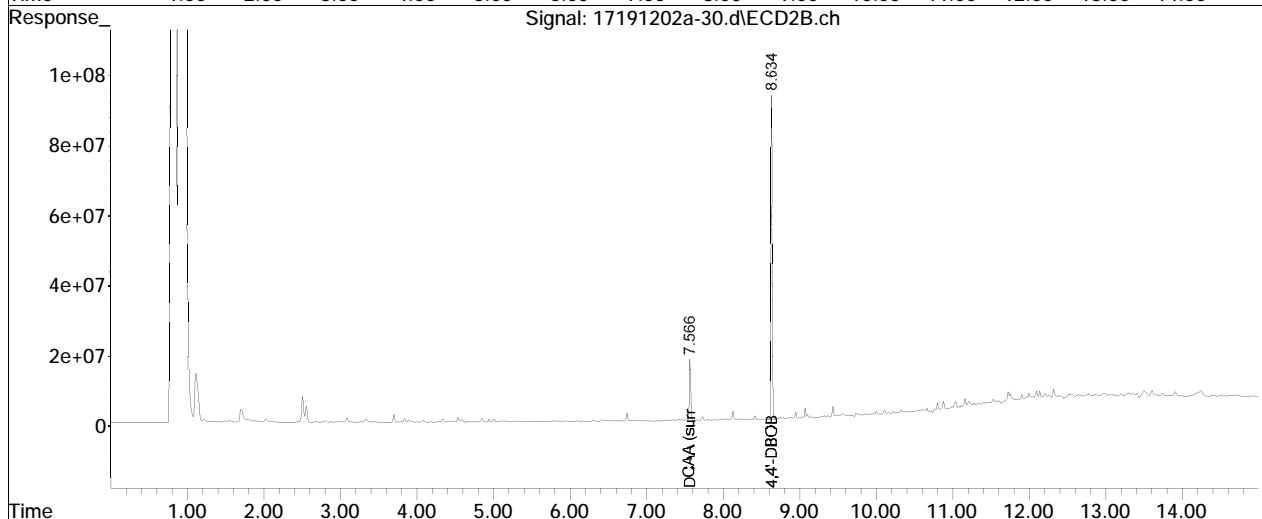
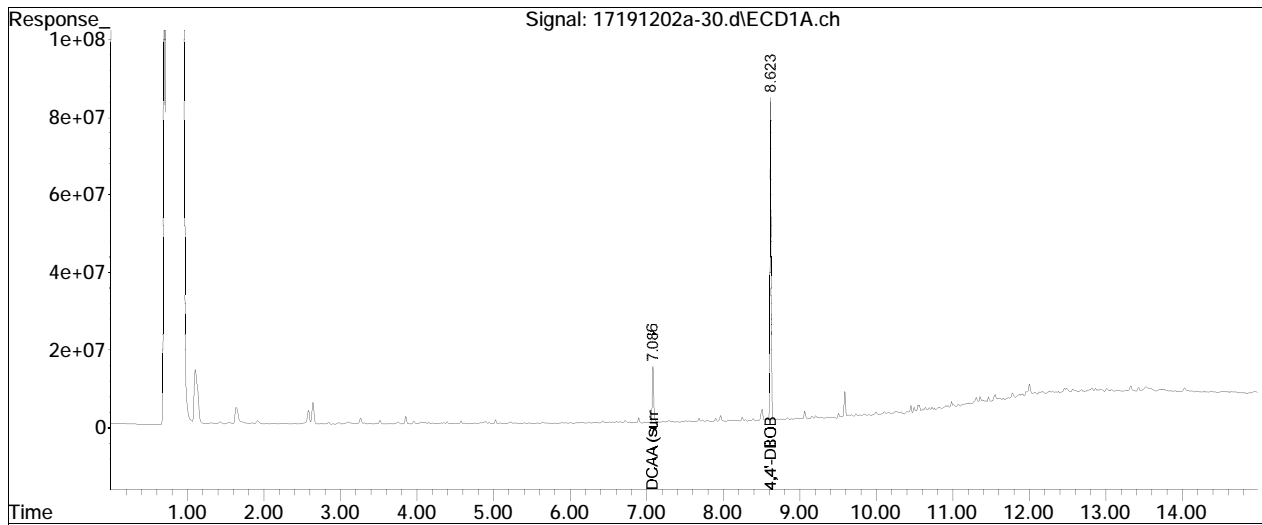
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed a-25.d••d)

Data Path : I:\Pest17\191202A\
Data File : 17191202a-30.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Dec 2019 9:44 pm
Operator : PEST17:dgm
Sample : 11957339-04,42e,, 8151
Misc : wg1315531,wg1314990,ical16100
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 17:34:24 2019
Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest17\191202A\	QMethod	: Herb17_09_03_ICAL16100.m
Data File	: 17191202a-30.d	Operator	: PEST17:dgm
Date Inj'd	: 12/2/2019 9:44 pm	Instrument	: Pest 17
Sample	: 11957339-04,42e,, 8151	Quant Date	: 12/3/2019 5:33 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191202A\
 Data File : 17191202a-31.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Dec 2019 10:03 pm
 Operator : PEST17:dgm
 Sample : 11957339-05,42e,, 8151
 Misc : wgl1315531,wgl1314990,ical16100
 ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 03 17:35:29 2019
 Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191202A\17191202a-25.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.624	8.635	967.1E6	1018.3E6	0.250	0.250
Standard Area 1 : #1 = 581370477					Recovery =	166.35%
Standard Area 1 : #2 = 617736738					Recovery =	164.84%
System Monitoring Compounds						
3) s DCAA (surrog	7.086	7.568	174.3E6	223.0E6	0.277	0.273
Spiked Amount	0.500	Range 30 - 150			Recovery =	55.40% 54.60%
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D.	N.D. d
4) t Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t MCPP	0.000	0.000	0	0	N.D.	N.D. d
6) t MCPA	0.000	0.000	0	0	N.D.	N.D.
7) t Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

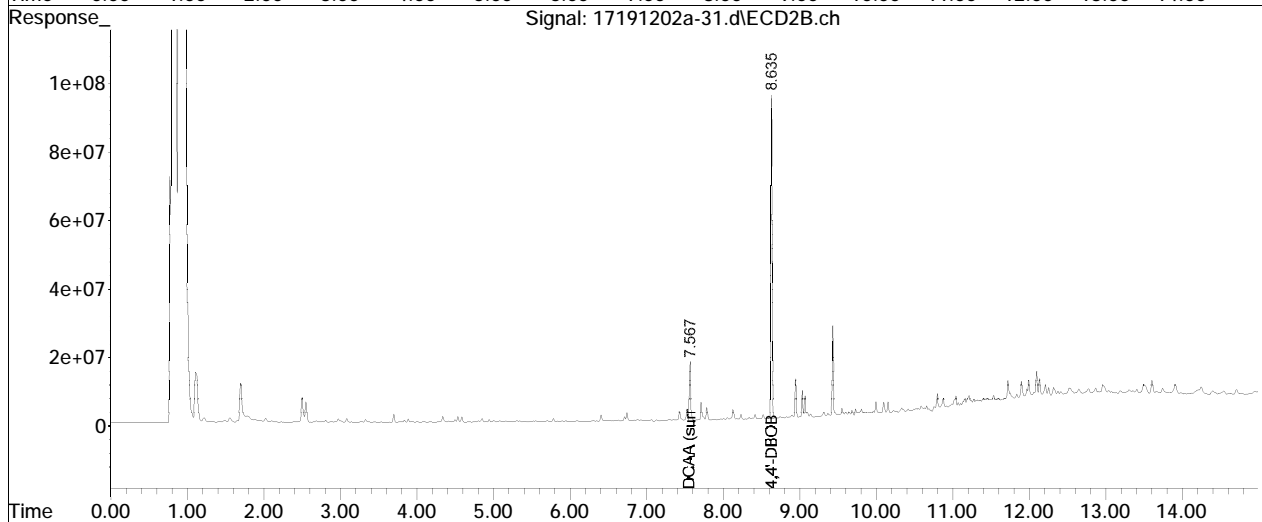
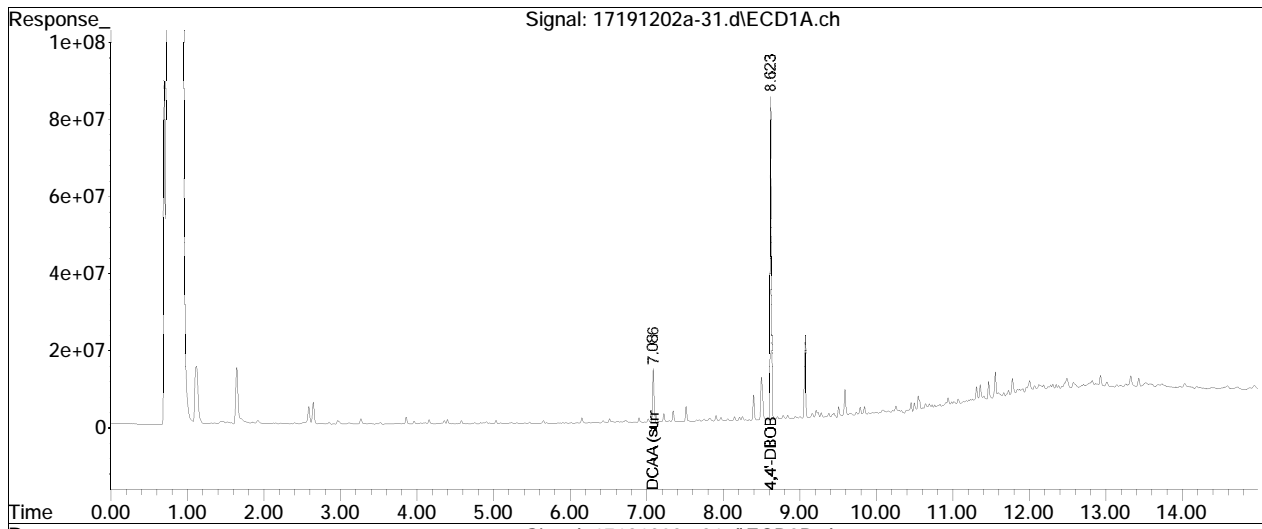
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed a-25.d••d)

Data Path : I:\Pest17\191202A\
Data File : 17191202a-31.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Dec 2019 10:03 pm
Operator : PEST17:dgm
Sample : 11957339-05,42e,, 8151
Misc : wg1315531,wg1314990,ical16100
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 17:35:29 2019
Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest17\191202A\	QMethod	: Herb17_09_03_ICAL16100.m
Data File	: 17191202a-31.d	Operator	: PEST17:dgm
Date Inj'd	: 12/2/2019 10:03 pm	Instrument	: Pest 17
Sample	: 11957339-05,42e,, 8151	Quant Date	: 12/3/2019 5:34 pm

There are no manual integrations or false positives in this file.

Analytical Event

Continuing Calibration

Evaluate Continuing Calibration Report

Data Path : I:\Pest17\191202A\
 Data File : 17191202a-79.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 3 Dec 2019 12:45 pm
 Operator : PEST17:jmc
 Sample : wg1315531-9,42e,, herb cc 9495
 Misc : wg1315531,wg1314714,ical16100
 ALS Vial : 79 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 03 16:10:58 2019
 Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 i	4,4'-DBOB	0.250	0.250	0.0	60	0.00
2 t	Dalapon	0.182	0.216	-18.7#	71	-0.01
3 s	DCAA (surrogate)	0.188	0.200	-6.4	60	0.00
4 t	Dicamba	0.188	0.193	-2.7	63	0.00
5 t	MCPP	18.800	20.739	-10.3	66	0.00
6 t	MCPA	18.600	23.289	-25.2#	76	0.00
7 t	Dichloroprop	0.188	0.192	-2.1	68	0.00
8 t	2,4-D	0.188	0.202	-7.4	65	0.00
9 t	2,4,5-TP (Silvex)	0.190	0.189	0.5	62	0.00
10 t	2,4,5-T	0.190	0.190	0.0	60	0.00
11 t	2,4-DB	0.192	0.161	16.1#	51	0.00
12 t	Dinoseb	0.190	0.340	-78.9#	126	0.00

Signal #2

1 i	4,4'-DBOB	0.250	0.250	0.0	66	0.00
2 t	Dalapon	0.182	0.204	-12.1	79	-0.01
3 s	DCAA (surrogate)	0.188	0.183	2.7	63	0.00
4 t	Dicamba	0.188	0.186	1.1	68	0.00
5 t	MCPP	18.800	16.965	9.8	62	0.00
6 t	MCPA	18.600	20.672	-11.1	72	0.00
7 t	Dichloroprop	0.188	0.206	-9.6	78	0.00
8 t	2,4-D	0.188	0.205	-9.0	76	0.00
9 t	2,4,5-TP (Silvex)	0.190	0.210	-10.5	78	0.00
10 t	2,4,5-T	0.190	0.202	-6.3	77	0.00
11 t	2,4-DB	0.192	0.191	0.5	70	0.00
12 t	Dinoseb	0.190	0.369	-94.2#	140	0.00

Evaluate Continuing Calibration Report - Not Found

Evaluate Continuing Calibration Report

Data Path : I:\Pest17\191202A\
Data File : 17191202a-79.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Dec 2019 12:45 pm
Operator : PEST17:jmc
Sample : wg1315531-9,42e,, herb cc 9495
Misc : wg1315531,wg1314714,ical16100
ALS Vial : 79 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 16:10:58 2019
Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

Signal #2					

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191202A\
 Data File : 17191202a-79.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 3 Dec 2019 12:45 pm
 Operator : PEST17:jmc
 Sample : wg1315531-9,42e,, herb cc 9495
 Misc : wg1315531,wg1314714,ical16100
 ALS Vial : 79 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 03 16:10:58 2019
 Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Internal Standards							
1) i	4,4'-DFOB	8.624	8.634	401.4E6	436.5E6	0.250	0.250
System Monitoring Compounds							
3) s	DCAA (surrog	7.087	7.567	52130655	63837669	0.200	0.183
	Spiked Amount	0.500	Range 30 - 150	Recovery =		40.00%	36.60%
Target Compounds							
2) t	Dalapon	2.052	2.118	48590377	55914100	0.216M4	0.204
4) t	Dicamba	7.272	7.750	152.8E6	183.0E6	0.193	0.186
5) t	MCPD	7.472	7.859	21740559	23402228	20.739	16.965
6) t	MCPA	7.619	8.087	41820151	43955569	23.289M4	20.672
7) t	Dichloroprop	7.977	8.406	50293893	60756000	0.192	0.206
8) t	2,4-D	8.200	8.686	59974498	79296639	0.202	0.205
9) t	2,4,5-TP (Si	8.906	9.339	214.1E6	262.5E6	0.189	0.210
10) t	2,4,5-T	9.127	9.629	227.0E6	253.6E6	0.190	0.202
11) t	2,4-DB	9.533	9.992	31457391	42612547	0.161	0.191
12) t	Dinoseb	10.262	10.209	150.3E6	163.5E6	0.340	0.369

SemiQuant Compounds - Not Calibrated on this Instrument

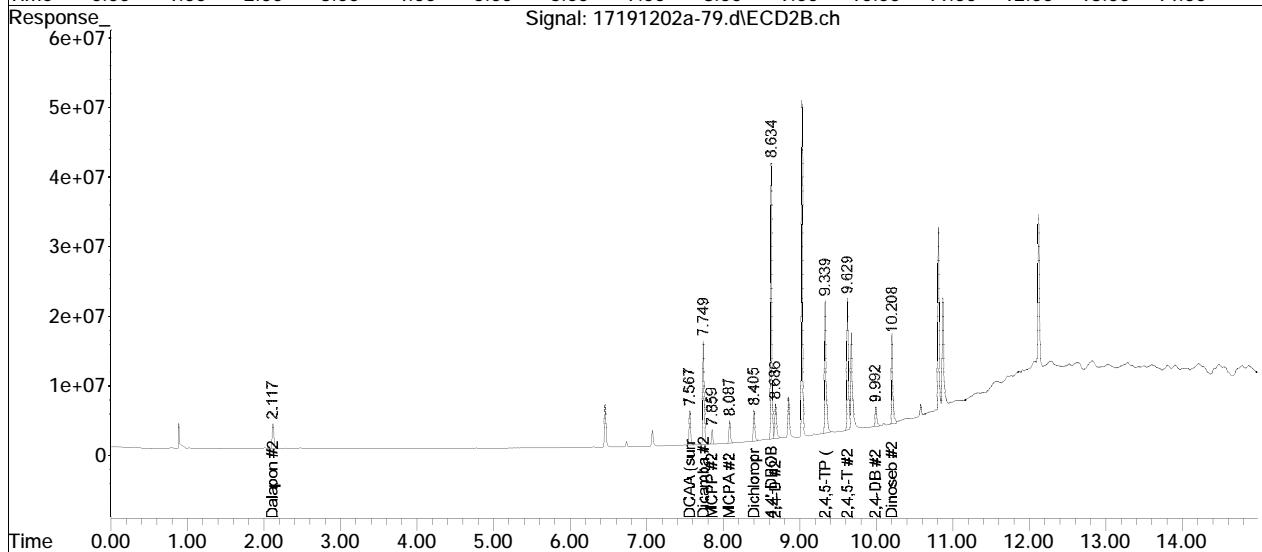
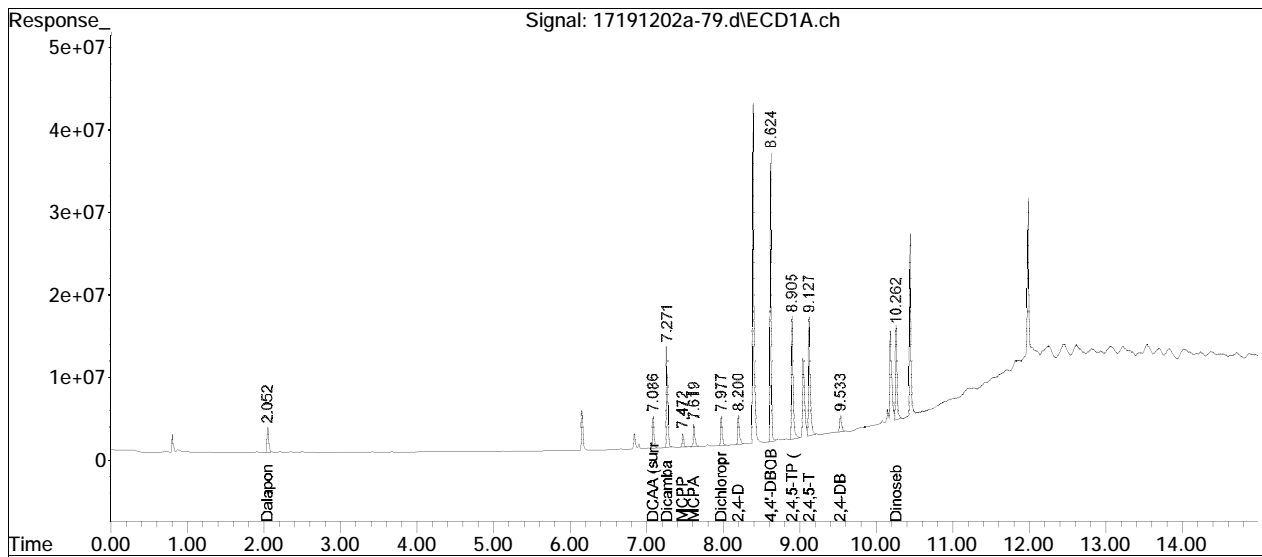
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coeluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest17\191202A\
Data File : 17191202a-79.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Dec 2019 12:45 pm
Operator : PEST17:jmc
Sample : wg1315531-9,42e,, herb cc 9495
Misc : wg1315531,wg1314714,ical16100
ALS Vial : 79 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 16:10:58 2019
Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

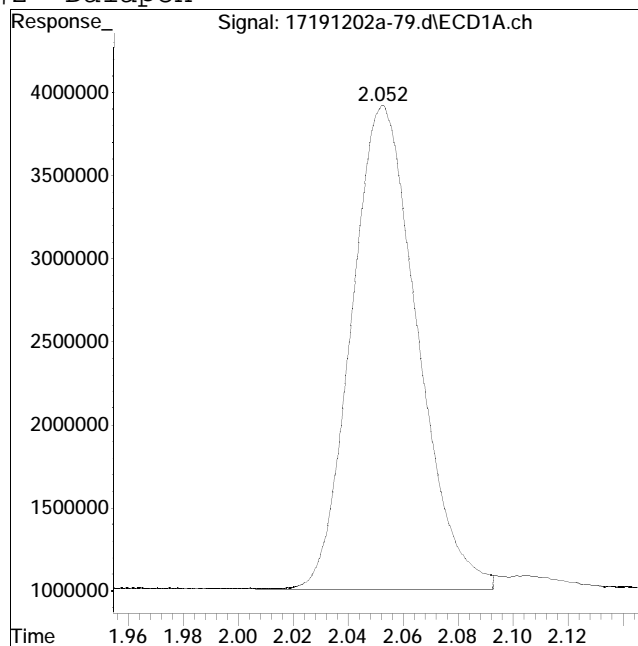
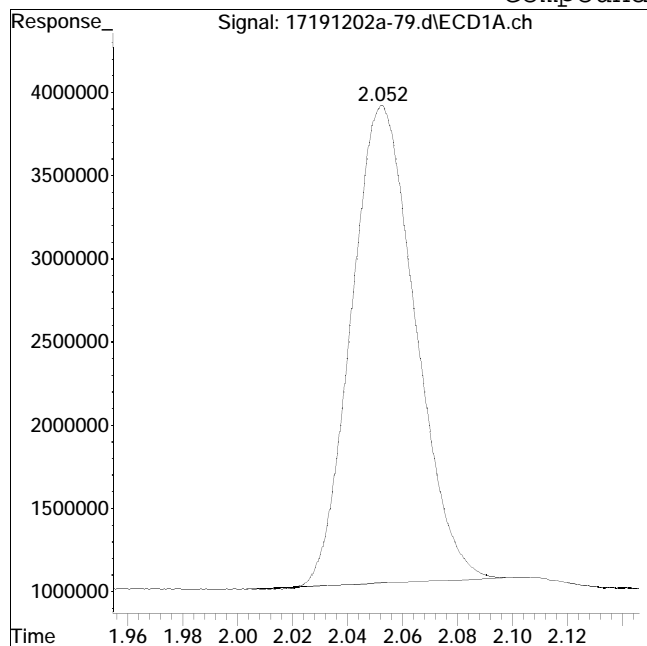
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest17\191202A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191202a-79.d Operator : PEST17:jmc
Date Inj'd : 12/3/2019 12:45 pm Instrument : Pest 17
Sample : wg1315531-9,42e,, herb cc Quant Date : 12/3/2019 4:09 pm

Compound #2: Dalapon



Original Peak Response = 46301308

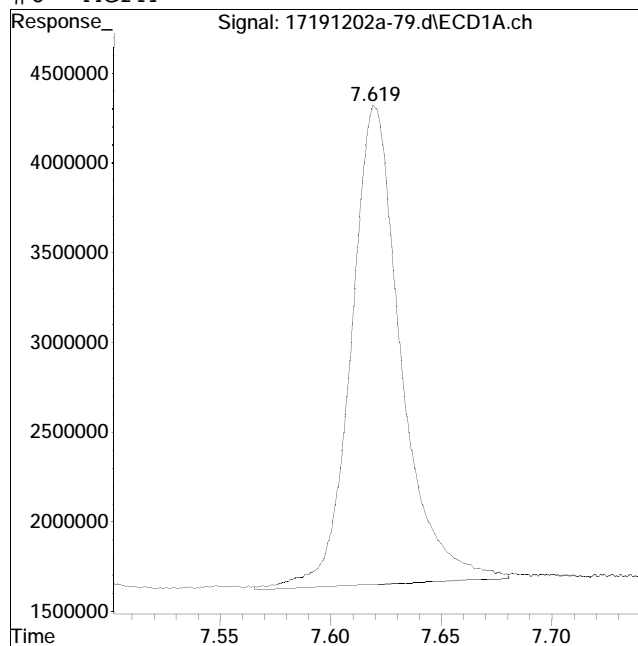
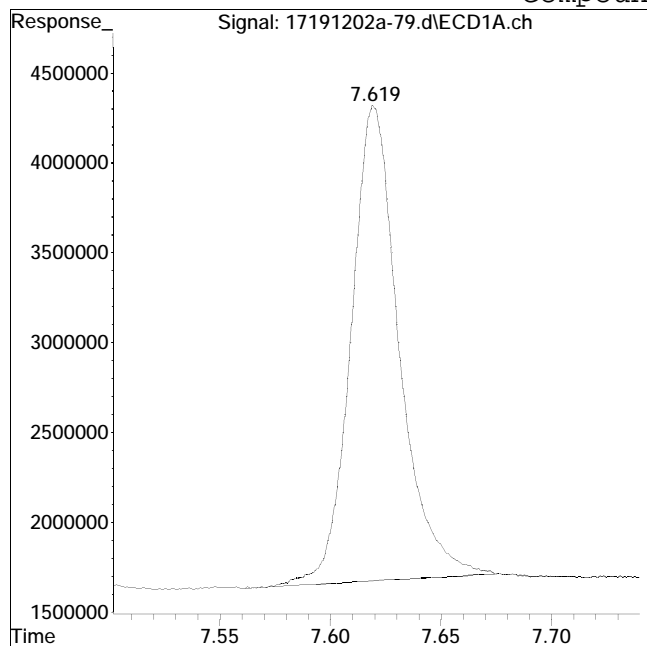
Manual Peak Response = 48590377 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191202A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191202a-79.d Operator : PEST17:jmc
Date Inj'd : 12/3/2019 12:45 pm Instrument : Pest 17
Sample : wg1315531-9,42e,, herb cc Quant Date : 12/3/2019 4:09 pm

Compound #6: MCPA



Original Peak Response = 40099217

Manual Peak Response = 41820151 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\Pest17\191202A\
 Data File : 17191202a-90.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 3 Dec 2019 4:08 pm
 Operator : PEST17:jmc
 Sample : wg1315531-10,42e,, herb cc 9495
 Misc : wg1315531,wg1314714,ical16100
 ALS Vial : 90 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 03 18:48:44 2019
 Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 i	4,4'-DBOB	0.250	0.250	0.0	68	0.00
2 t	Dalapon	0.182	0.216	-18.7#	80	0.00
3 s	DCAA (surrogate)	0.188	0.192	-2.1	66	0.00
4 t	Dicamba	0.188	0.191	-1.6	71	0.00
5 t	MCP	18.800	20.214	-7.5	73	0.00
6 t	MCPA	18.600	21.315	-14.6	81	0.00
7 t	Dichloroprop	0.188	0.194	-3.2	78	0.00
8 t	2,4-D	0.188	0.205	-9.0	75	0.00
9 t	2,4,5-TP (Silvex)	0.190	0.186	2.1	69	0.00
10 t	2,4,5-T	0.190	0.182	4.2	65	0.00
11 t	2,4-DB	0.192	0.169	12.0	61	0.00
12 t	Dinoseb	0.190	0.338	-77.9#	142	0.00

Signal #2

1 i	4,4'-DBOB	0.250	0.250	0.0	75	0.00
2 t	Dalapon	0.182	0.202	-11.0	89	0.00
3 s	DCAA (surrogate)	0.188	0.178	5.3	69	0.00
4 t	Dicamba	0.188	0.183	2.7	77	0.00
5 t	MCP	18.800	17.993	4.3	74	0.00
6 t	MCPA	18.600	20.449	-9.9	81	0.00
7 t	Dichloroprop	0.188	0.204	-8.5	87	0.00
8 t	2,4-D	0.188	0.203	-8.0	85	0.00
9 t	2,4,5-TP (Silvex)	0.190	0.210	-10.5	88	0.00
10 t	2,4,5-T	0.190	0.200	-5.3	86	0.00
11 t	2,4-DB	0.192	0.187	2.6	77	0.00
12 t	Dinoseb	0.190	0.355	-86.8#	153	0.00

Evaluate Continuing Calibration Report - Not Found

Evaluate Continuing Calibration Report

Data Path : I:\Pest17\191202A\
Data File : 17191202a-90.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Dec 2019 4:08 pm
Operator : PEST17:jmc
Sample : wg1315531-10,42e,, herb cc 9495
Misc : wg1315531,wg1314714,ical16100
ALS Vial : 90 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 18:48:44 2019
Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

Signal #2					

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191202A\
 Data File : 17191202a-90.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 3 Dec 2019 4:08 pm
 Operator : PEST17:jmc
 Sample : wg1315531-10,42e,, herb cc 9495
 Misc : wg1315531,wg1314714,ical16100
 ALS Vial : 90 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 03 18:48:44 2019
 Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Internal Standards							
1) i	4,4'-DFOB	8.624	8.635	456.1E6	495.6E6	0.250	0.250
System Monitoring Compounds							
3) s	DCAA (surrog	7.087	7.568	56918731	70712857	0.192	0.178
	Spiked Amount	0.500	Range 30 - 150	Recovery =		38.40%	35.60%
Target Compounds							
2) t	Dalapon	2.059	2.124	55215429	62861642	0.216M4	0.202
4) t	Dicamba	7.272	7.750	172.3E6	205.2E6	0.191	0.183
5) t	MCPD	7.472	7.860	24078281	28182092	20.214	17.993
6) t	MCPA	7.620	8.088	44811641	49369120	21.315	20.449
7) t	Dichloroprop	7.976	8.406	57490270	68471541	0.194M4	0.204
8) t	2,4-D	8.200	8.688	69169653	89171988	0.205	0.203
9) t	2,4,5-TP (Si	8.906	9.340	238.8E6	298.4E6	0.186	0.210
10) t	2,4,5-T	9.128	9.631	246.9E6	284.7E6	0.182	0.200
11) t	2,4-DB	9.533	9.992	37707674	47277412	0.169M4	0.187
12) t	Dinoseb	10.261	10.209	169.7E6	178.8E6	0.338	0.355

SemiQuant Compounds - Not Calibrated on this Instrument

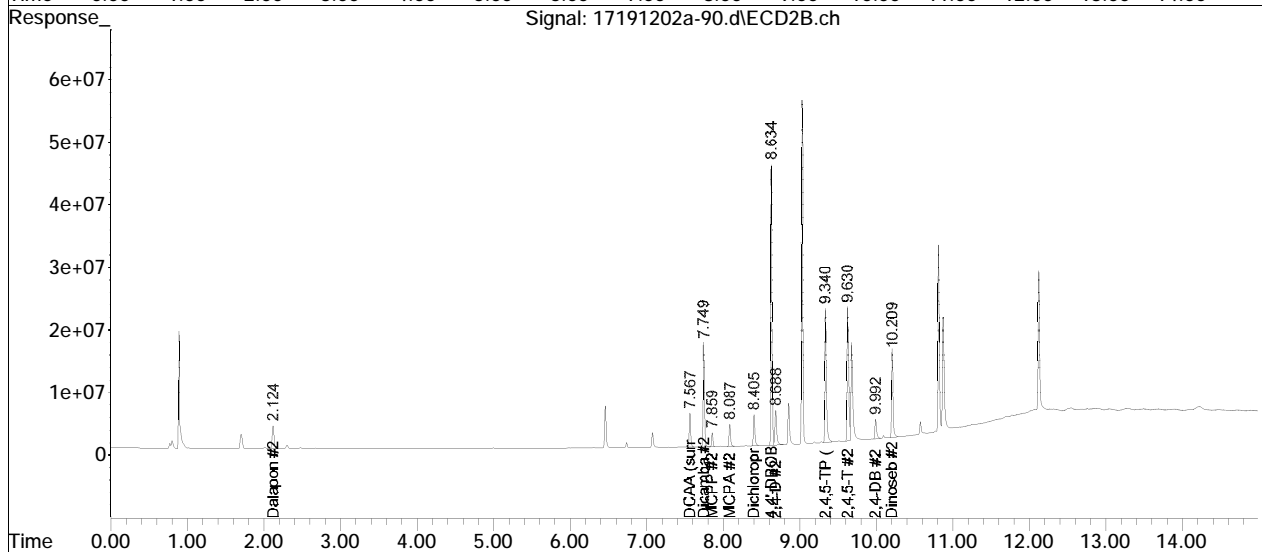
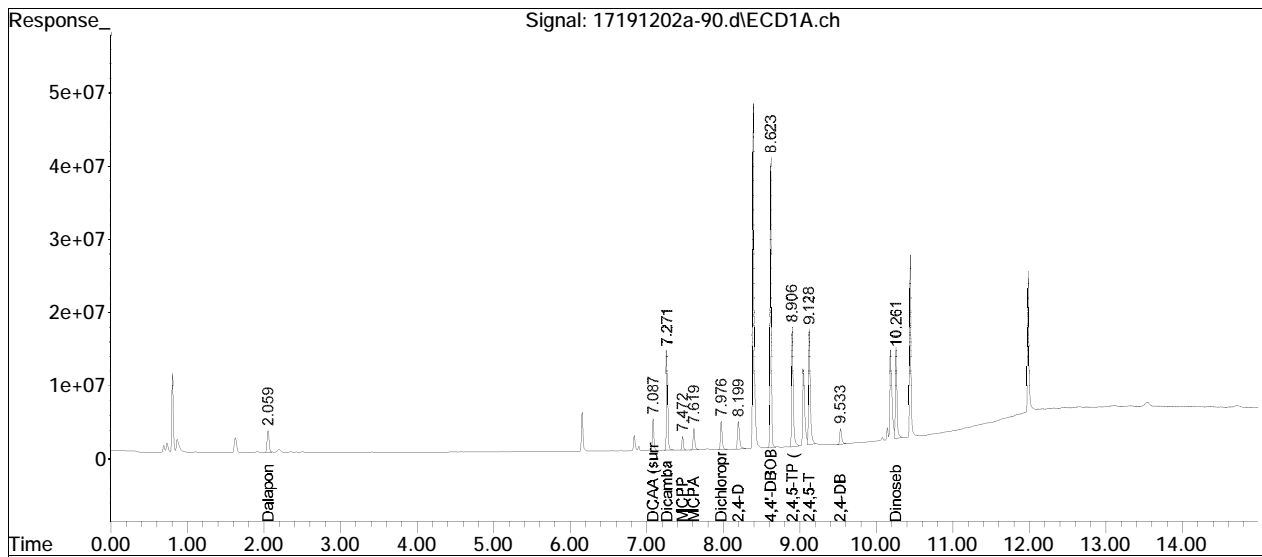
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest17\191202A\
Data File : 17191202a-90.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Dec 2019 4:08 pm
Operator : PEST17:jmc
Sample : wg1315531-10,42e,, herb cc 9495
Misc : wg1315531,wg1314714,ical16100
ALS Vial : 90 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 18:48:44 2019
Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

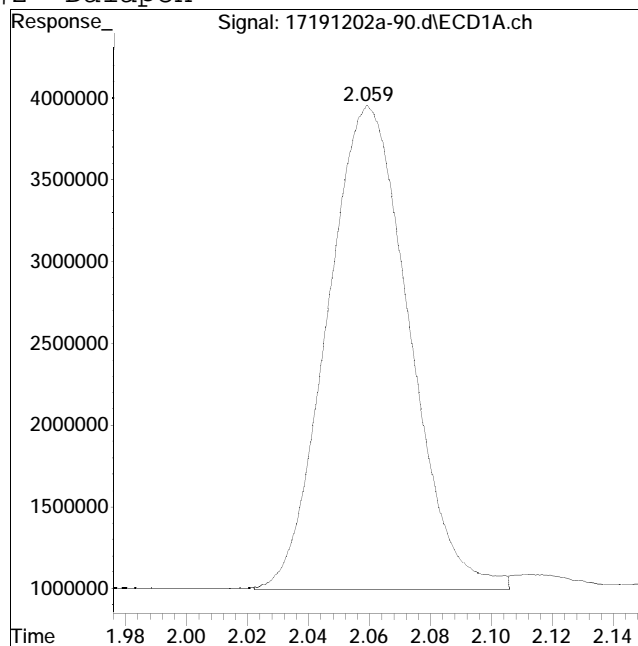
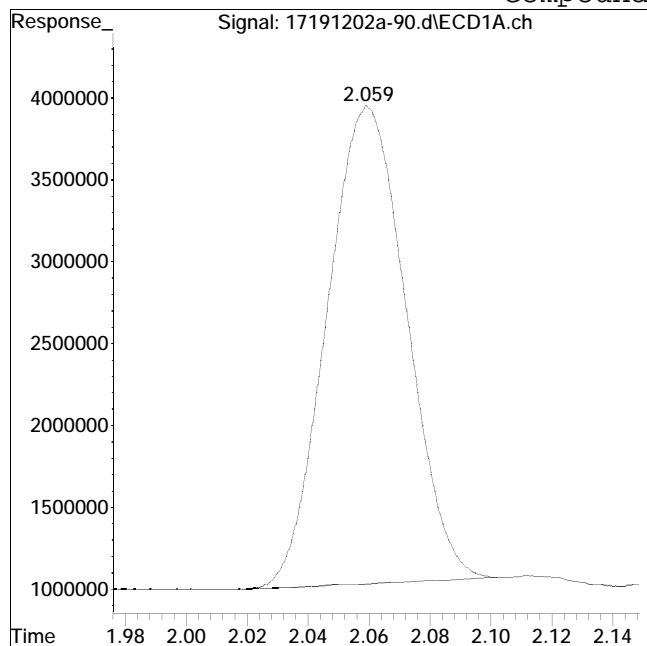
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest17\191202A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191202a-90.d Operator : PEST17:jmc
Date Inj'd : 12/3/2019 4:08 pm Instrument : Pest 17
Sample : wg1315531-10,42e,, herb ccQuant Date : 12/3/2019 6:47 pm

Compound #2: Dalapon



Original Peak Response = 52774207

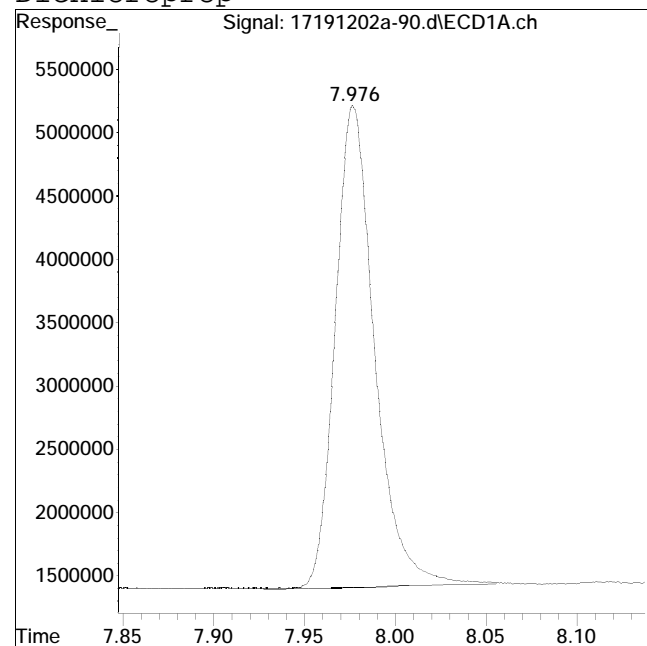
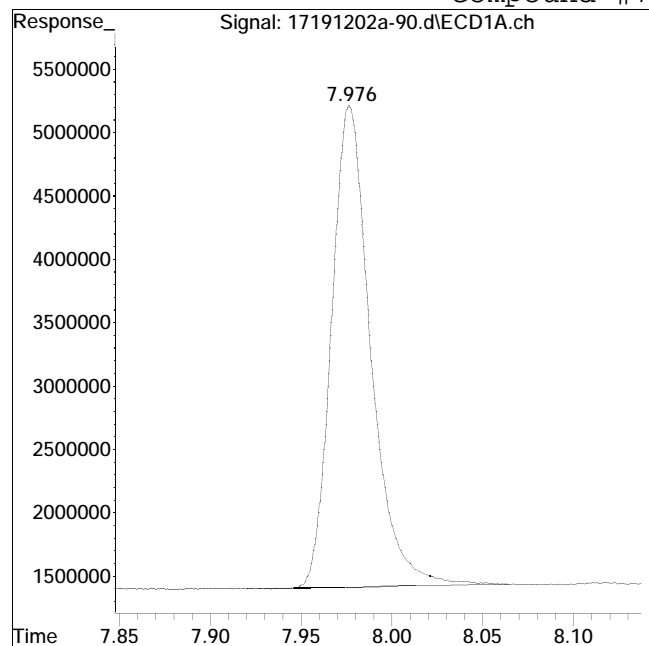
Manual Peak Response = 55215429 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191202A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191202a-90.d Operator : PEST17:jmc
Date Inj'd : 12/3/2019 4:08 pm Instrument : Pest 17
Sample : wg1315531-10,42e,, herb ccQuant Date : 12/3/2019 6:47 pm

Compound #7: Dichloroprop



Original Peak Response = 57034353

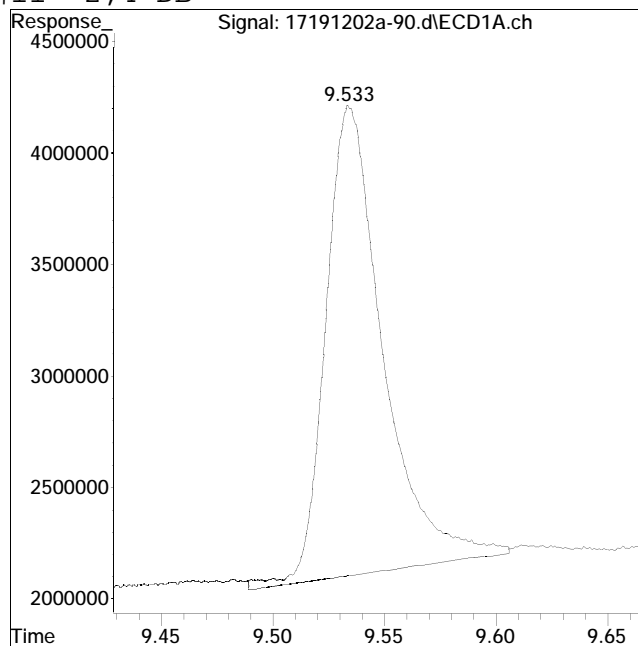
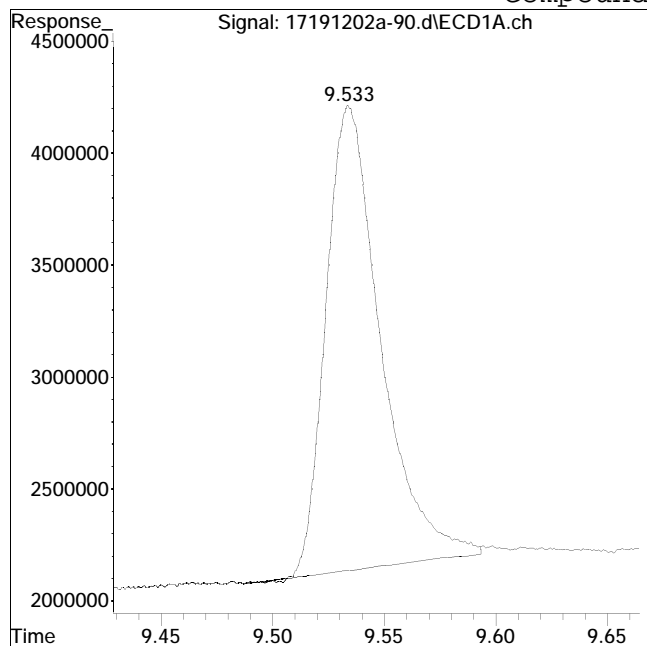
Manual Peak Response = 57490270 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191202A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191202a-90.d Operator : PEST17:jmc
Date Inj'd : 12/3/2019 4:08 pm Instrument : Pest 17
Sample : wg1315531-10,42e,, herb ccQuant Date : 12/3/2019 6:47 pm

Compound #11: 2,4-DB



Original Peak Response = 35430417

Manual Peak Response = 37707674 M4

M4 = Poor automated baseline construction.

Analytical Event

Continuing Calibration

Evaluate Continuing Calibration Report

Data Path : I:\Pest17\191203A\
 Data File : 17191203a-01.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 3 Dec 2019 10:52 pm
 Operator : PEST17:dgm
 Sample : wg1316251-1,42e,,herb cc 9495 (Sig #1); herb cc 9495 (Sig #2)
 Misc : wg1316251,ical16100
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 03 23:18:15 2019
 Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 i	4,4'-DBOB	0.250	0.250	0.0	70	0.00
2 t	Dalapon	0.182	0.214	-17.6#	82	0.00
3 s	DCAA (surrogate)	0.188	0.193	-2.7	68	0.00
4 t	Dicamba	0.188	0.189	-0.5	72	0.00
5 t	MCPD	18.800	20.635	-9.8	76	0.00
6 t	MCPA	18.600	21.450	-15.3#	84	0.00
7 t	Dichloroprop	0.188	0.191	-1.6	79	0.00
8 t	2,4-D	0.188	0.204	-8.5	77	0.00
9 t	2,4,5-TP (Silvex)	0.190	0.189	0.5	72	0.00
10 t	2,4,5-T	0.190	0.200	-5.3	74	0.00
11 t	2,4-DB	0.192	0.174	9.4	64	0.00
12 t	Dinoseb	0.190	0.355	-86.8#	153	0.00

Signal #2

1 i	4,4'-DBOB	0.250	0.250	0.0	77	0.00
2 t	Dalapon	0.182	0.203	-11.5	91	-0.01
3 s	DCAA (surrogate)	0.188	0.179	4.8	71	0.00
4 t	Dicamba	0.188	0.183	2.7	78	0.00
5 t	MCPD	18.800	18.447	1.9	78	0.00
6 t	MCPA	18.600	20.666	-11.1	83	0.00
7 t	Dichloroprop	0.188	0.206	-9.6	90	0.00
8 t	2,4-D	0.188	0.207	-10.1	89	0.00
9 t	2,4,5-TP (Silvex)	0.190	0.215	-13.2	92	0.00
10 t	2,4,5-T	0.190	0.209	-10.0	92	0.00
11 t	2,4-DB	0.192	0.204	-6.2	86	0.00
12 t	Dinoseb	0.190	0.346	-82.1#	152	0.00

Evaluate Continuing Calibration Report - Not Found

Evaluate Continuing Calibration Report

Data Path : I:\Pest17\191203A\
 Data File : 17191203a-01.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 3 Dec 2019 10:52 pm
 Operator : PEST17:dgm
 Sample : wg1316251-1,42e,,herb cc 9495 (Sig #1); herb cc 9495 (Sig #2)
 Misc : wg1316251,ical16100
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 03 23:18:15 2019
 Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

Signal #2					

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191203A\
 Data File : 17191203a-01.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 3 Dec 2019 10:52 pm
 Operator : PEST17:dgm
 Sample : wg1316251-1,42e,,herb cc 9495 (Sig #1); herb cc 9495 (Sig #2)
 Misc : wg1316251,ical16100
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 03 23:18:15 2019
 Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Internal Standards							
1) i	4,4'-DFOB	8.631	8.634	468.3E6	505.8E6	0.250	0.250
System Monitoring Compounds							
3) s	DCAA (surrog	7.094	7.566	58686493	72483597	0.193	0.179
	Spiked Amount	0.500	Range 30 - 150	Recovery =		38.60%	35.80%
Target Compounds							
2) t	Dalapon	2.058	2.117	56401833	64584620	0.214	0.203
4) t	Dicamba	7.278	7.748	174.6E6	209.2E6	0.189	0.183
5) t	MCPPP	7.479	7.858	25238619	29488445	20.635	18.447
6) t	MCPA	7.626	8.086	46202797	50922172	21.450	20.666
7) t	Dichloroprop	7.983	8.405	58504238	70599160	0.191	0.206
8) t	2,4-D	8.205	8.686	70666002	93064462	0.204	0.207
9) t	2,4,5-TP (Si	8.911	9.339	250.3E6	311.4E6	0.189	0.215
10) t	2,4,5-T	9.132	9.630	278.4E6	303.8E6	0.200	0.209
11) t	2,4-DB	9.537	9.991	39690186	52725748	0.174	0.204
12) t	Dinoseb	10.267	10.210	183.5E6	177.8E6	0.355	0.346

SemiQuant Compounds - Not Calibrated on this Instrument

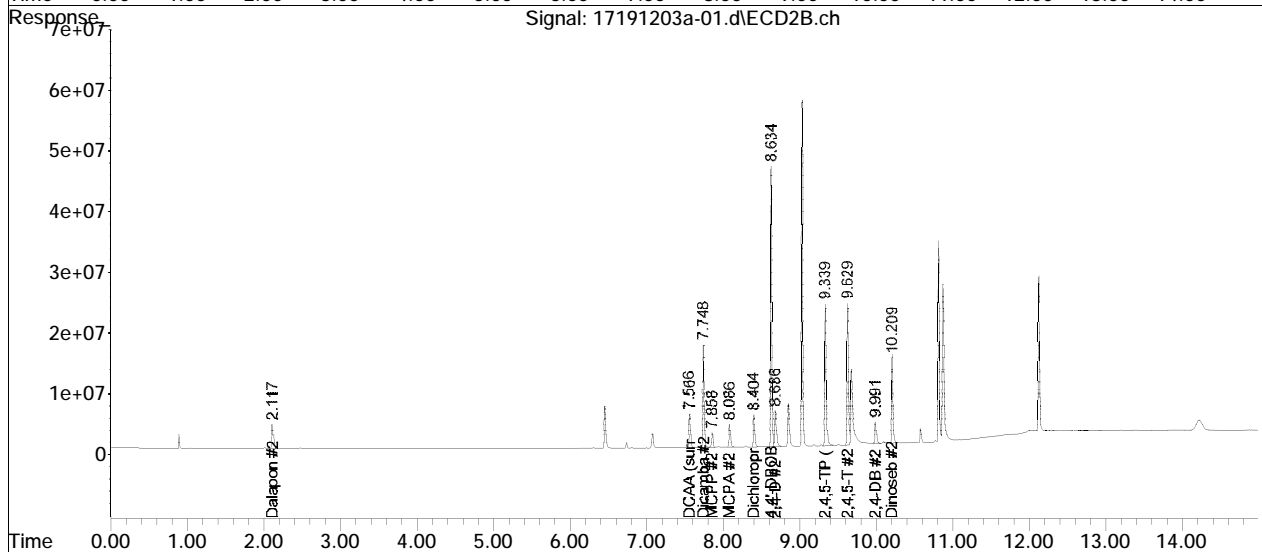
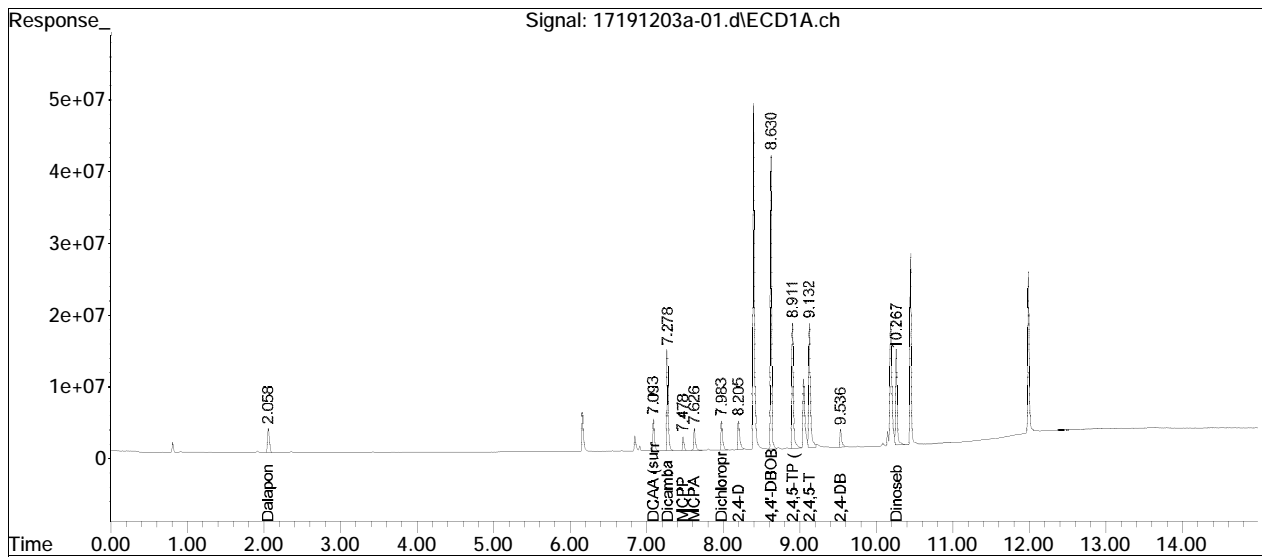
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest17\191203A\
Data File : 17191203a-01.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Dec 2019 10:52 pm
Operator : PEST17:dgm
Sample : wg1316251-1,42e,,herb cc 9495 (Sig #1); herb cc 9495 (Sig #2)
Misc : wg1316251,ical16100
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 23:18:15 2019
Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest17\191203A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191203a-01.d Operator : PEST17:dgm
Date Inj'd : 12/3/2019 10:52 pm Instrument : Pest 17
Sample : wg1316251-1,42e,,herb cc 9Quant Date : 12/3/2019 11:18 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\Pest17\191203A\
 Data File : 17191203a-13.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 4 Dec 2019 3:11 am
 Operator : PEST17:dgm
 Sample : wg1316251-2,42e,,herb cc 9495 (Sig #1); herb cc 9495 (Sig #2)
 Misc : wg1316251,ical16100
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 04 11:24:03 2019
 Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 i	4,4'-DBOB	0.250	0.250	0.0	71	0.00
2 t	Dalapon	0.182	0.215	-18.1#	84	0.00
3 s	DCAA (surrogate)	0.188	0.194	-3.2	70	0.00
4 t	Dicamba	0.188	0.190	-1.1	74	0.00
5 t	MCP	18.800	20.637	-9.8	78	0.00
6 t	MCPA	18.600	21.238	-14.2	85	0.00
7 t	Dichloroprop	0.188	0.196	-4.3	82	0.00
8 t	2,4-D	0.188	0.206	-9.6	80	0.00
9 t	2,4,5-TP (Silvex)	0.190	0.188	1.1	73	0.00
10 t	2,4,5-T	0.190	0.194	-2.1	73	0.00
11 t	2,4-DB	0.192	0.169	12.0	64	0.00
12 t	Dinoseb	0.190	0.334	-75.8#	147	0.00

Signal #2

1 i	4,4'-DBOB	0.250	0.250	0.0	79	0.00
2 t	Dalapon	0.182	0.201	-10.4	93	0.00
3 s	DCAA (surrogate)	0.188	0.179	4.8	73	0.00
4 t	Dicamba	0.188	0.184	2.1	80	0.00
5 t	MCP	18.800	18.323	2.5	79	0.00
6 t	MCPA	18.600	20.471	-10.1	84	0.00
7 t	Dichloroprop	0.188	0.205	-9.0	92	0.00
8 t	2,4-D	0.188	0.207	-10.1	91	0.00
9 t	2,4,5-TP (Silvex)	0.190	0.213	-12.1	93	0.00
10 t	2,4,5-T	0.190	0.207	-8.9	94	0.00
11 t	2,4-DB	0.192	0.193	-0.5	83	0.00
12 t	Dinoseb	0.190	0.338	-77.9#	152	0.00

Evaluate Continuing Calibration Report - Not Found

Evaluate Continuing Calibration Report

Data Path : I:\Pest17\191203A\
Data File : 17191203a-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2019 3:11 am
Operator : PEST17:dgm
Sample : wg1316251-2,42e,,herb cc 9495 (Sig #1); herb cc 9495 (Sig #2)
Misc : wg1316251,ical16100
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 11:24:03 2019
Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

Signal #2					

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191203A\
 Data File : 17191203a-13.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 4 Dec 2019 3:11 am
 Operator : PEST17:dgm
 Sample : wg1316251-2,42e,,herb cc 9495 (Sig #1); herb cc 9495 (Sig #2)
 Misc : wg1316251,ical16100
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 04 11:24:03 2019
 Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Internal Standards							
1) i	4,4'-DFOB	8.624	8.635	479.1E6	518.3E6	0.250	0.250
System Monitoring Compounds							
3) s	DCAA (surrog	7.086	7.568	60442389	74242215	0.194	0.179
	Spiked Amount	0.500	Range 30 - 150	Recovery =		38.80%	35.80%
Target Compounds							
2) t	Dalapon	2.056	2.122	57815041	65490911	0.215	0.201
4) t	Dicamba	7.271	7.750	179.6E6	215.5E6	0.190	0.184
5) t	MCPD	7.472	7.860	25822350	30015359	20.637	18.323
6) t	MCPA	7.619	8.088	46960898	51690021	21.238	20.471
7) t	Dichloroprop	7.976	8.405	60797618	71980804	0.196	0.205
8) t	2,4-D	8.198	8.686	72957985	95489416	0.206	0.207
9) t	2,4,5-TP (Si	8.904	9.339	254.7E6	316.0E6	0.188	0.213
10) t	2,4,5-T	9.125	9.629	276.4E6	308.3E6	0.194	0.207
11) t	2,4-DB	9.531	9.991	39575402	51096253	0.169	0.193
12) t	Dinoseb	10.261	10.209	176.1E6	178.2E6	0.334	0.338

SemiQuant Compounds - Not Calibrated on this Instrument

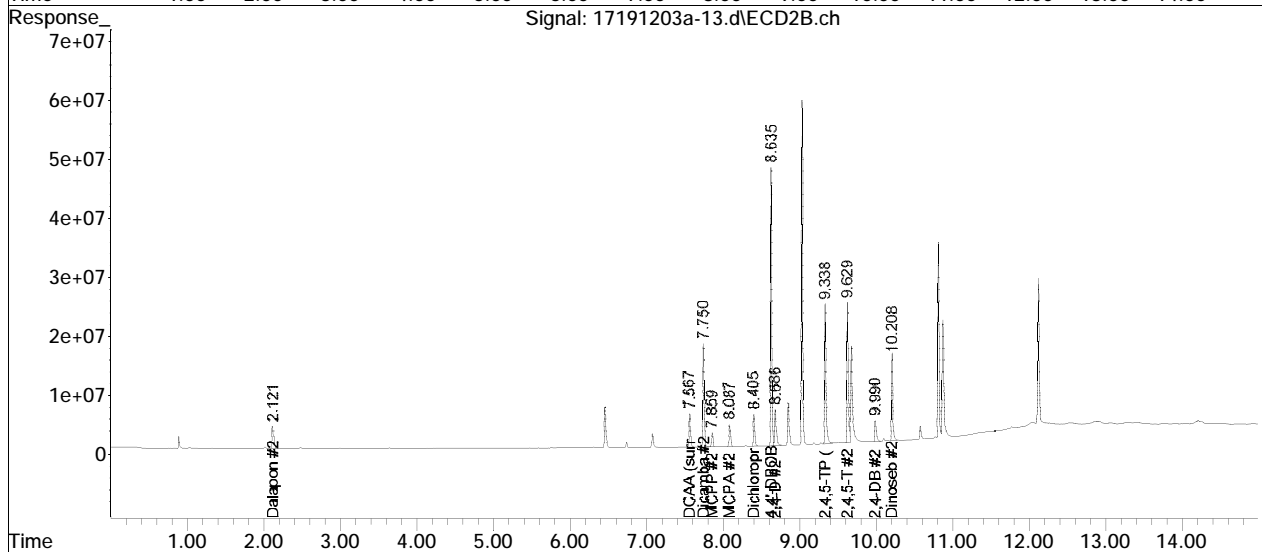
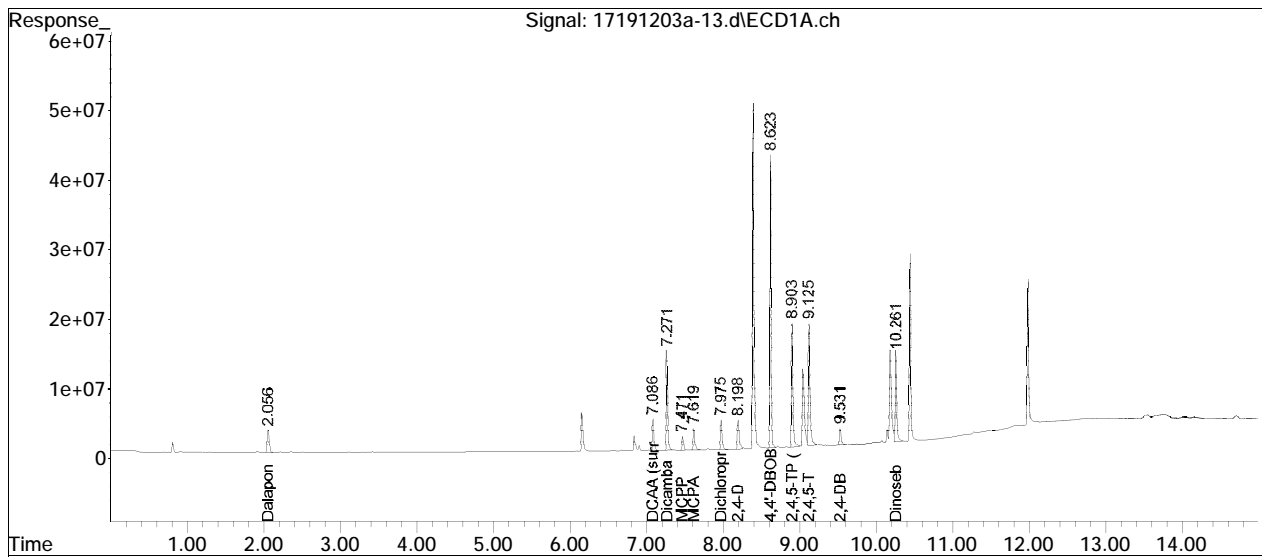
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest17\191203A\
Data File : 17191203a-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2019 3:11 am
Operator : PEST17:dgm
Sample : wg1316251-2,42e,,herb cc 9495 (Sig #1); herb cc 9495 (Sig #2)
Misc : wg1316251,ical16100
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 11:24:03 2019
Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest17\191203A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191203a-13.d Operator : PEST17:dgm
Date Inj'd : 12/4/2019 3:11 am Instrument : Pest 17
Sample : wg1316251-2,42e,,herb cc 9Quant Date : 12/4/2019 11:24 am

There are no manual integrations or false positives in this file.

Sample Raw Data

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191203A\
 Data File : 17191203a-07.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 4 Dec 2019 1:20 am
 Operator : PEST17:dgm
 Sample : 11957339-19,42e,,p,8151
 Misc : wg1316251,wg1315317,ical16100
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 04 11:16:08 2019
 Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191203A\17191203a-01.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.623	8.633	289.8E6	324.9E6	0.250	0.250
Standard Area 1 : #1 = 468332196					Recovery =	61.89%
Standard Area 1 : #2 = 505837689					Recovery =	64.23%
System Monitoring Compounds						
3) s DCAA (surrog	7.085	7.566	83676350	111.6E6	0.444	0.429
Spiked Amount	0.500	Range 30 - 150			Recovery =	88.80% 85.80%
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D.	N.D. d
4) t Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t MCPA	0.000	0.000	0	0	N.D.	N.D. d
7) t Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D.
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D.	N.D. d
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

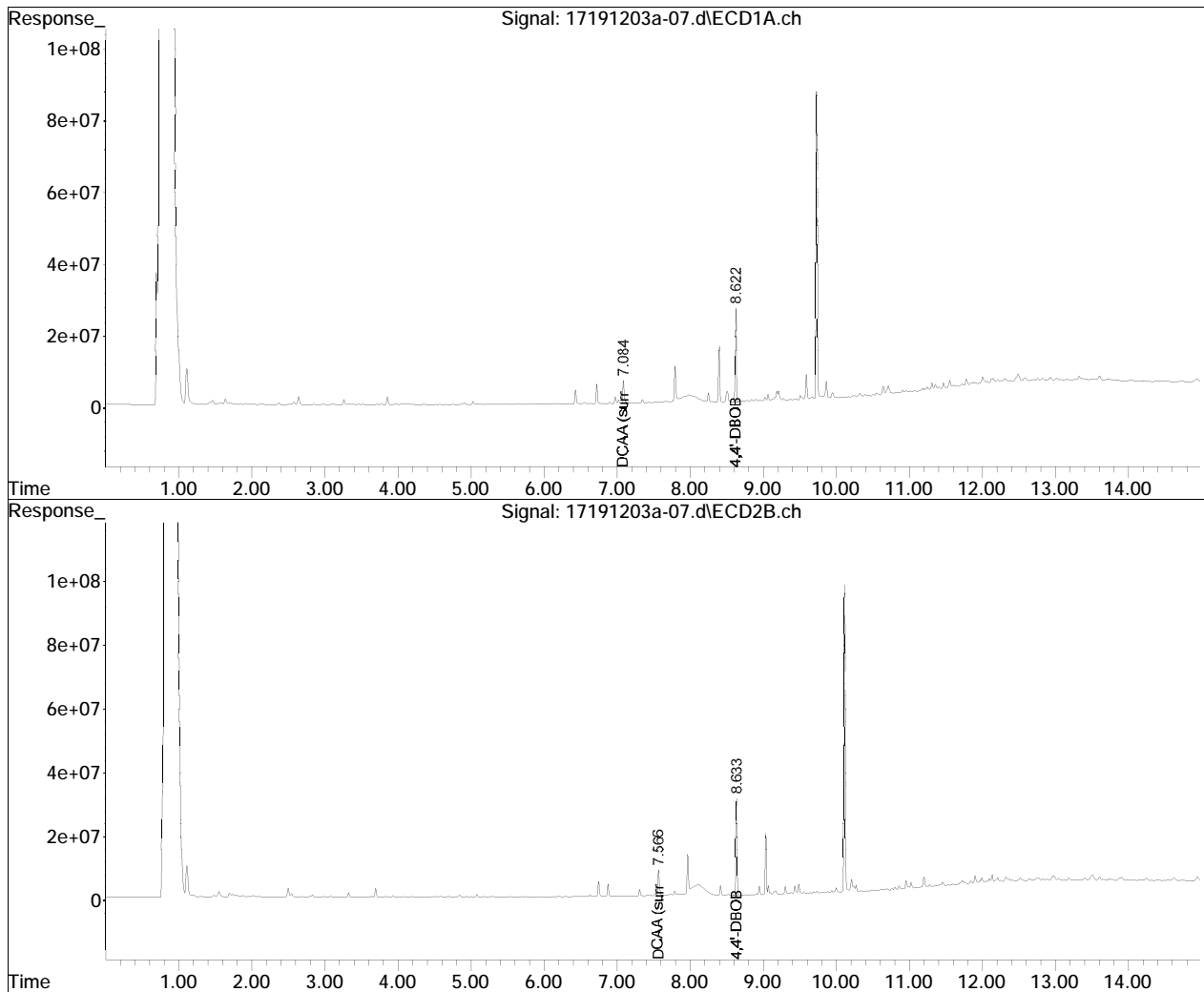
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda-01.d••d)

Data Path : I:\Pest17\191203A\
Data File : 17191203a-07.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2019 1:20 am
Operator : PEST17:dgm
Sample : 11957339-19,42e,,p,8151
Misc : wg1316251,wg1315317,ical16100
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 11:16:08 2019
Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest17\191203A\	QMethod	: Herb17_09_03_ICAL16100.m
Data File	: 17191203a-07.d	Operator	: PEST17:dgm
Date Inj'd	: 12/4/2019 1:20 am	Instrument	: Pest 17
Sample	: 11957339-19,42e,,p,8151	Quant Date	: 12/4/2019 11:15 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191203A\
 Data File : 17191203a-10.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 4 Dec 2019 2:15 am
 Operator : PEST17:dgm
 Sample : 11957339-02,42e,,8151
 Misc : wgl1316251,wgl1315021,ical16100
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 04 11:18:41 2019
 Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191203A\17191203a-01.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.623	8.634	340.2E6	380.9E6	0.250M4	0.250
Standard Area 1 : #1 = 468332196					Recovery =	72.63%
Standard Area 1 : #2 = 505837689					Recovery =	75.30%
System Monitoring Compounds						
3) s DCAA (surrog	7.085	7.566	99497420	114.8E6	0.450M4	0.376
Spiked Amount	0.500	Range 30 - 150		Recovery =	90.00%	75.20%
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D.	N.D. d
4) t Dicamba	0.000	0.000	0	0	N.D.	N.D. d
5) t MCPP	0.000	0.000	0	0	N.D.	N.D. d
6) t MCPA	0.000	0.000	0	0	N.D.	N.D. d
7) t Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D.	N.D.
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

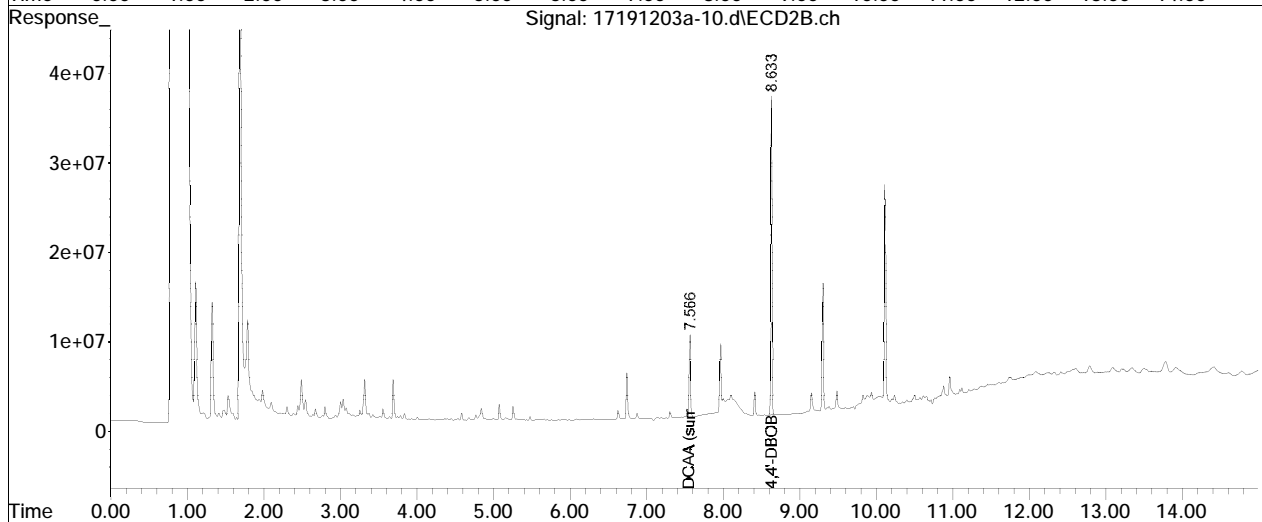
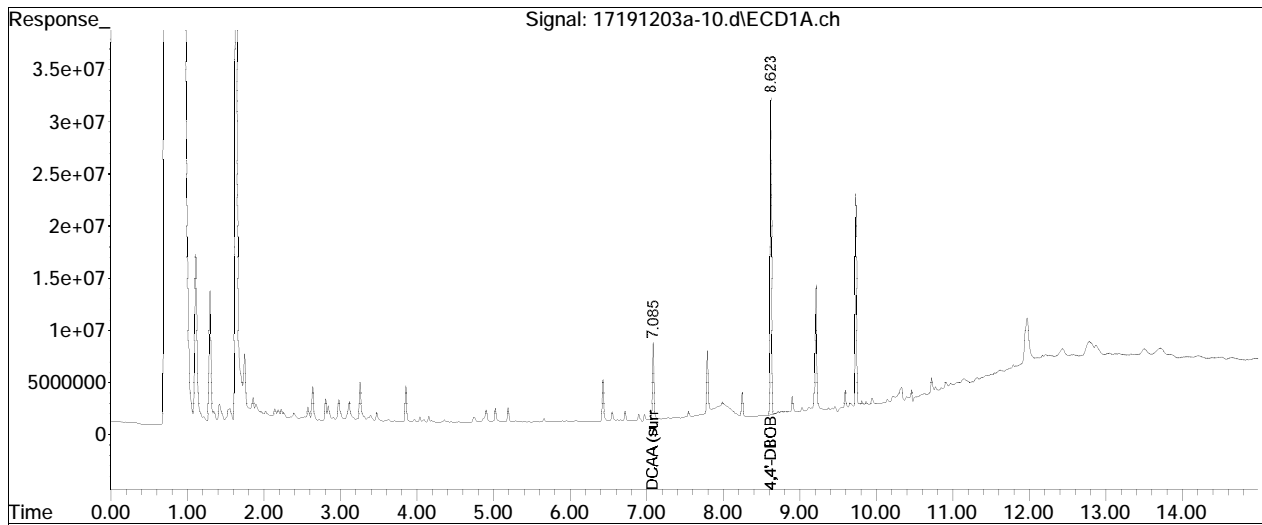
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda-01.d••d)

Data Path : I:\Pest17\191203A\
Data File : 17191203a-10.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2019 2:15 am
Operator : PEST17:dgm
Sample : 11957339-02,42e,,8151
Misc : wg1316251,wg1315021,ical16100
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 11:18:41 2019
Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

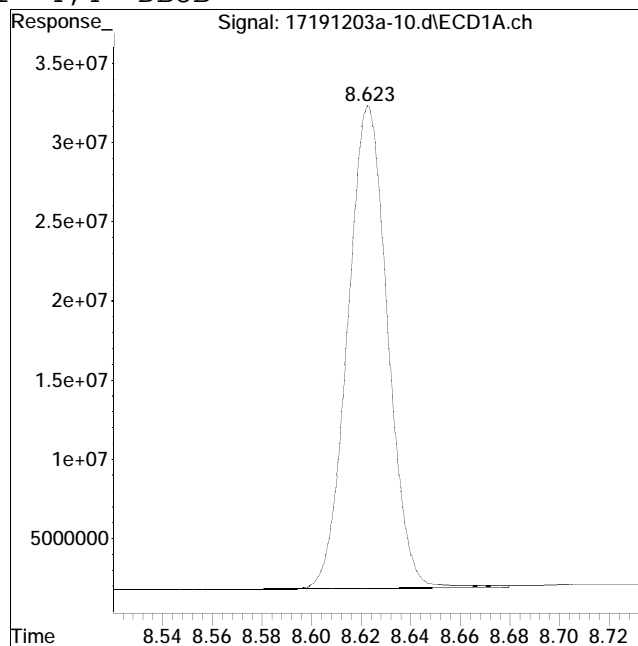
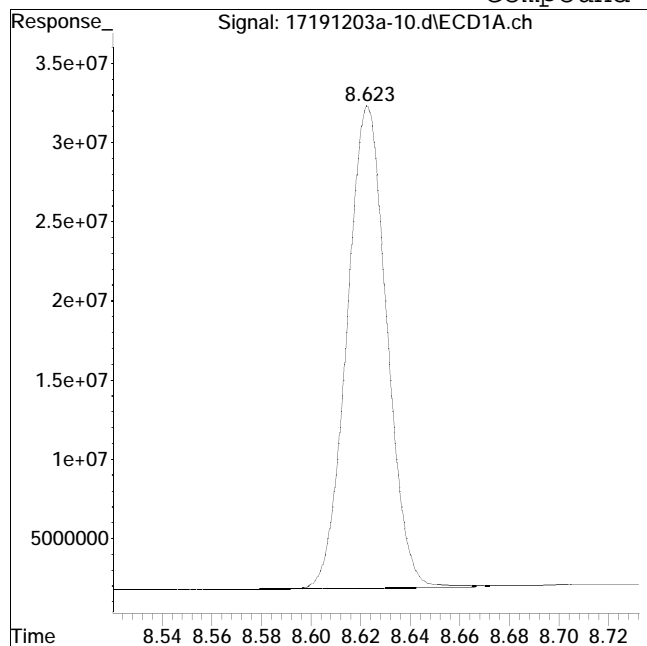


Manual Integration Report

Data Path : I:\Pest17\191203A\
Data File : 17191203a-10.d
Date Inj'd : 12/4/2019 2:15 am
Sample : 11957339-02,42e,,8151

QMethod : Herb17_09_03_ICAL16100.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 12/4/2019 11:18 am

Compound #1: 4,4'-DBOB



Original Peak Response = 339061923

Manual Peak Response = 340171789 M4

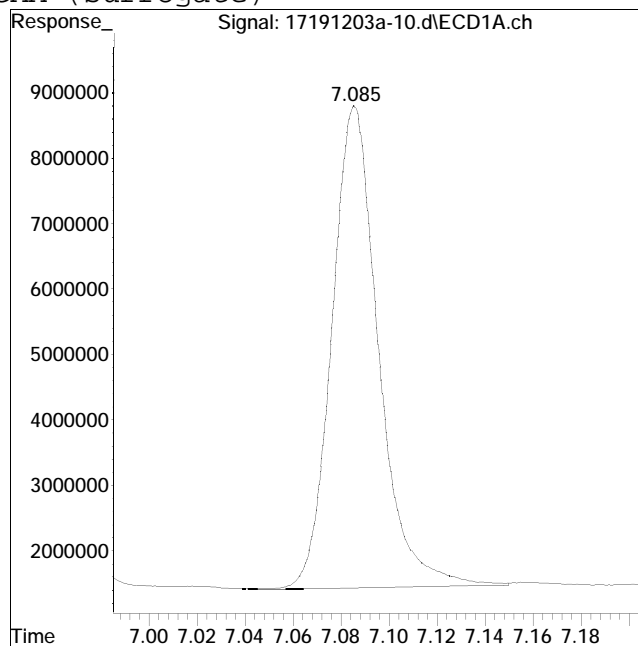
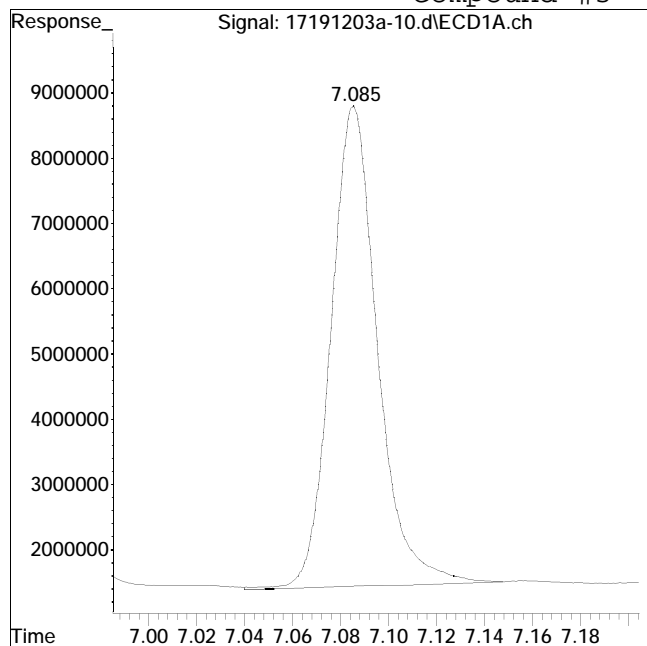
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191203A\
Data File : 17191203a-10.d
Date Inj'd : 12/4/2019 2:15 am
Sample : 11957339-02,42e,,8151

QMethod : Herb17_09_03_ICAL16100.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 12/4/2019 11:18 am

Compound #3: DCAA (surrogate)



Original Peak Response = 99079483

Manual Peak Response = 99497420 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191203A\
 Data File : 17191203a-11.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 4 Dec 2019 2:34 am
 Operator : PEST17:dgm
 Sample : 11957339-01,42e,,8151
 Misc : wgl1316251,wgl1315021,ical16100
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 04 11:19:22 2019
 Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191203A\17191203a-01.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.622	8.633	389.6E6	436.6E6	0.250	0.250
Standard Area 1 : #1 = 468332196					Recovery =	83.20%
Standard Area 1 : #2 = 505837689					Recovery =	86.32%
System Monitoring Compounds						
3) s DCAA (surrog	7.084	7.565	123.3E6	140.5E6	0.487M4	0.401M4
Spiked Amount	0.500	Range 30 - 150			Recovery =	97.40% 80.20%
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D.	N.D. d
4) t Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D.	N.D.
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

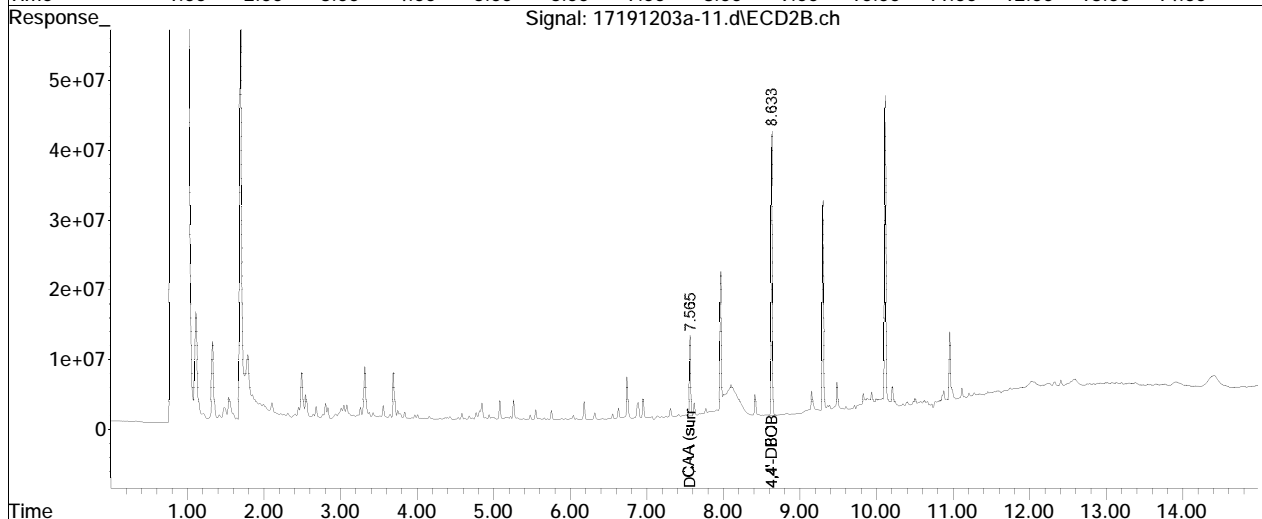
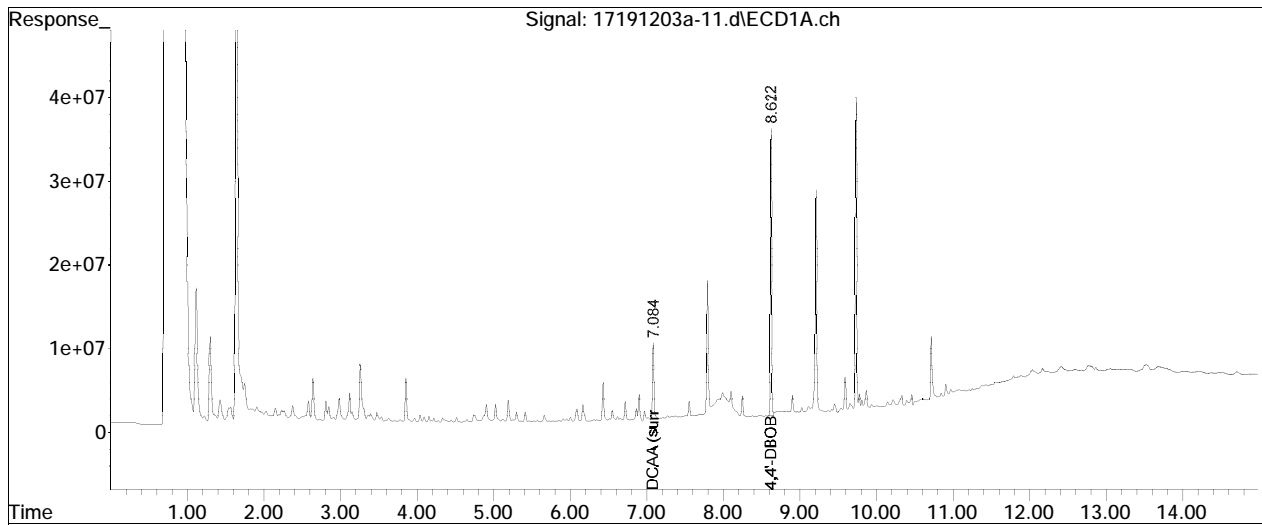
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coeluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda-01.d••d)

Data Path : I:\Pest17\191203A\
Data File : 17191203a-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2019 2:34 am
Operator : PEST17:dgm
Sample : 11957339-01,42e,,8151
Misc : wg1316251,wg1315021,ical16100
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 11:19:22 2019
Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

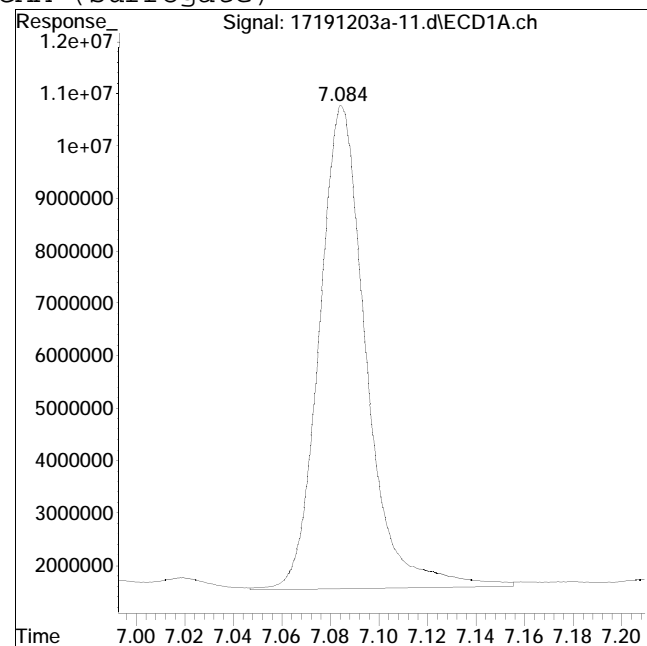
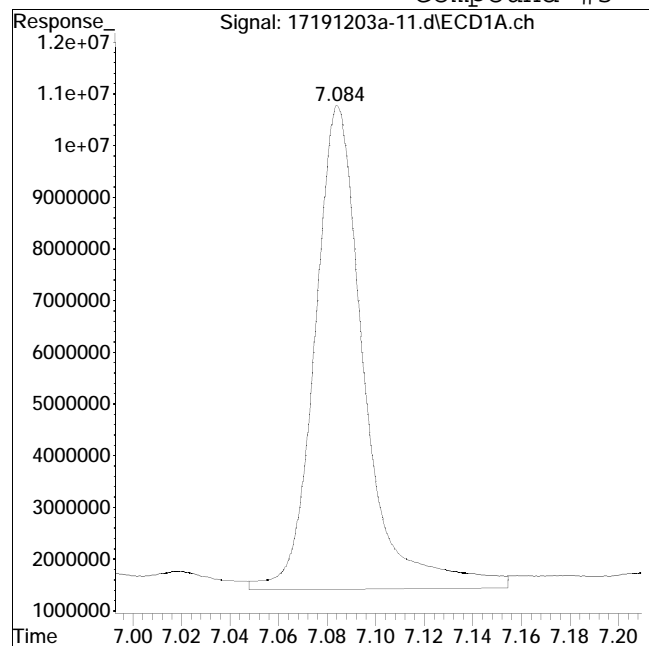


Manual Integration Report

Data Path : I:\Pest17\191203A\
Data File : 17191203a-11.d
Date Inj'd : 12/4/2019 2:34 am
Sample : 11957339-01,42e,,8151

QMethod : Herb17_09_03_ICAL16100.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 12/4/2019 11:18 am

Compound #3: DCAA (surrogate)



Original Peak Response = 132175165

Manual Peak Response = 123299586 M4

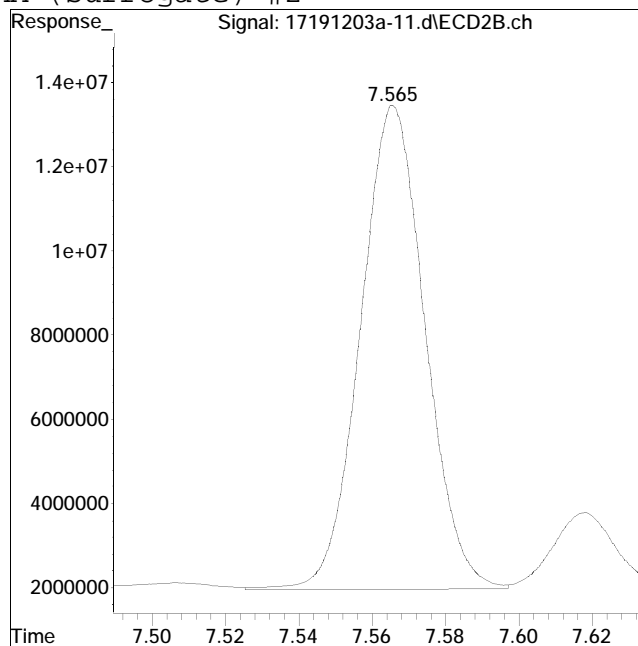
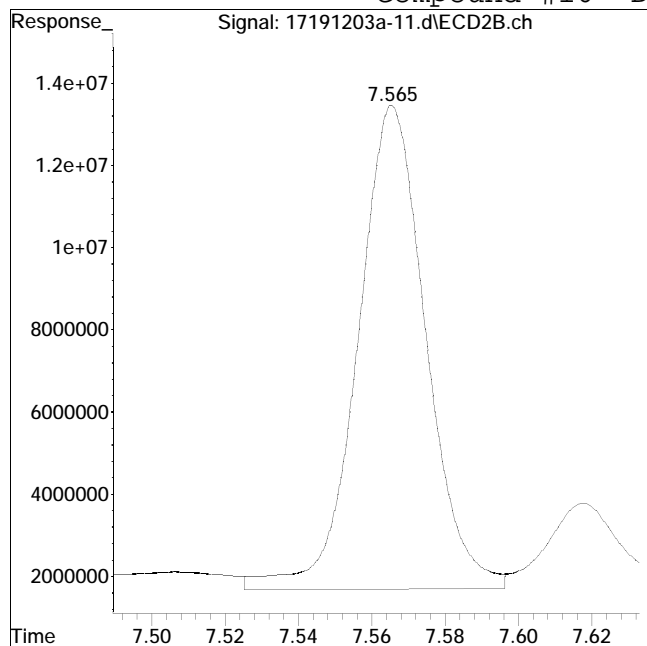
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191203A\
Data File : 17191203a-11.d
Date Inj'd : 12/4/2019 2:34 am
Sample : 11957339-01,42e,,8151

QMethod : Herb17_09_03_ICAL16100.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 12/4/2019 11:18 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 151955947

Manual Peak Response = 140472853 M4

M4 = Poor automated baseline construction.

Analytical Event

Continuing Calibration

Evaluate Continuing Calibration Report

Data Path : I:\Pest17\191203A\
 Data File : 17191203a-42.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 4 Dec 2019 12:03 pm
 Operator : PEST17:dgm
 Sample : wg1316251-5,42e,,herb cc 9495 (Sig #1); herb cc 9495 (Sig #2)
 Misc : wg1316251,ical16100
 ALS Vial : 87 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 04 12:58:32 2019
 Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 i	4,4'-DBOB	0.250	0.250	0.0	50	0.00
2 t	Dalapon	0.182	0.214	-17.6#	59	-0.01
3 s	DCAA (surrogate)	0.188	0.200	-6.4	51	0.00
4 t	Dicamba	0.188	0.191	-1.6	53	0.00
5 t	MCPD	18.800	22.042	-17.2#	59	0.00
6 t	MCPA	18.600	24.748	-33.1#	66	0.00
7 t	Dichloroprop	0.188	0.197	-4.8	58	0.00
8 t	2,4-D	0.188	0.213	-13.3	58	0.00
9 t	2,4,5-TP (Silvex)	0.190	0.191	-0.5	52	0.00
10 t	2,4,5-T	0.190	0.200	-5.3	53	0.00
11 t	2,4-DB	0.192	0.181	5.7	48	0.00
12 t	Dinoseb	0.190	0.356	-87.4#	111	0.00

Signal #2

1 i	4,4'-DBOB	0.250	0.250	0.0	56	0.00
2 t	Dalapon	0.182	0.200	-9.9	65	-0.01
3 s	DCAA (surrogate)	0.188	0.182	3.2	53	0.00
4 t	Dicamba	0.188	0.185	1.6	57	0.00
5 t	MCPD	18.800	19.143	-1.8	59	0.00
6 t	MCPA	18.600	21.939	-18.0#	64	0.00
7 t	Dichloroprop	0.188	0.211	-12.2	67	0.00
8 t	2,4-D	0.188	0.218	-16.0#	68	0.00
9 t	2,4,5-TP (Silvex)	0.190	0.218	-14.7	68	0.00
10 t	2,4,5-T	0.190	0.212	-11.6	68	0.00
11 t	2,4-DB	0.192	0.209	-8.9	64	0.00
12 t	Dinoseb	0.190	0.357	-87.9#	114	0.00

Evaluate Continuing Calibration Report - Not Found

Evaluate Continuing Calibration Report

Data Path : I:\Pest17\191203A\
Data File : 17191203a-42.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2019 12:03 pm
Operator : PEST17:dgm
Sample : wg1316251-5,42e,,herb cc 9495 (Sig #1); herb cc 9495 (Sig #2)
Misc : wg1316251,ical16100
ALS Vial : 87 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 12:58:32 2019
Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

Signal #2					

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191203A\
 Data File : 17191203a-42.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 4 Dec 2019 12:03 pm
 Operator : PEST17:dgm
 Sample : wg1316251-5,42e,,herb cc 9495 (Sig #1); herb cc 9495 (Sig #2)
 Misc : wg1316251,ical16100
 ALS Vial : 87 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 04 12:58:32 2019
 Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Internal Standards							
1) i	4,4'-DFOB	8.624	8.634	338.5E6	367.7E6	0.250M4	0.250
System Monitoring Compounds							
3) s	DCAA (surrog	7.087	7.567	43924702	53516631	0.200	0.182
	Spiked Amount	0.500	Range 30 - 150	Recovery =		40.00%	36.40%
Target Compounds							
2) t	Dalapon	2.050	2.116	40686921	46284812	0.214	0.200
4) t	Dicamba	7.272	7.749	128.0E6	153.6E6	0.191	0.185
5) t	MCPD	7.473	7.859	19485705	22245751	22.042	19.143
6) t	MCPA	7.620	8.087	36753034	39298361	24.748	21.939
7) t	Dichloroprop	7.978	8.405	43109054	52379844	0.197	0.211
8) t	2,4-D	8.203	8.688	53304159	71181125	0.213	0.218
9) t	2,4,5-TP (Si	8.907	9.340	182.2E6	229.4E6	0.191	0.218
10) t	2,4,5-T	9.130	9.631	201.6E6	223.4E6	0.200	0.212
11) t	2,4-DB	9.536	9.993	29855875	39294037	0.181	0.209
12) t	Dinoseb	10.262	10.209	133.0E6	133.4E6	0.356	0.357

SemiQuant Compounds - Not Calibrated on this Instrument

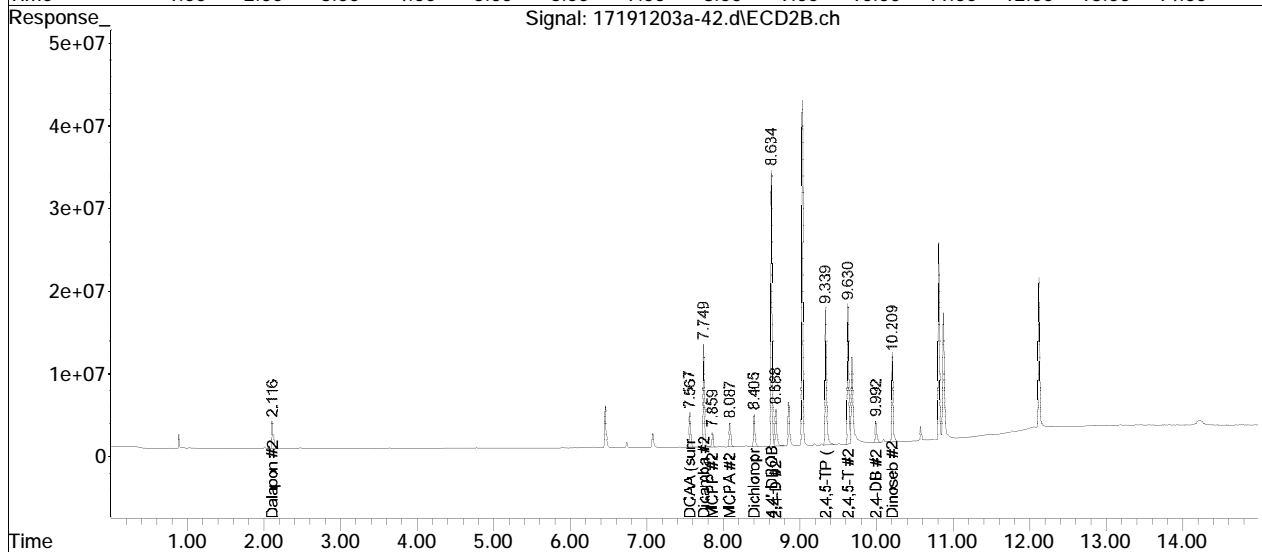
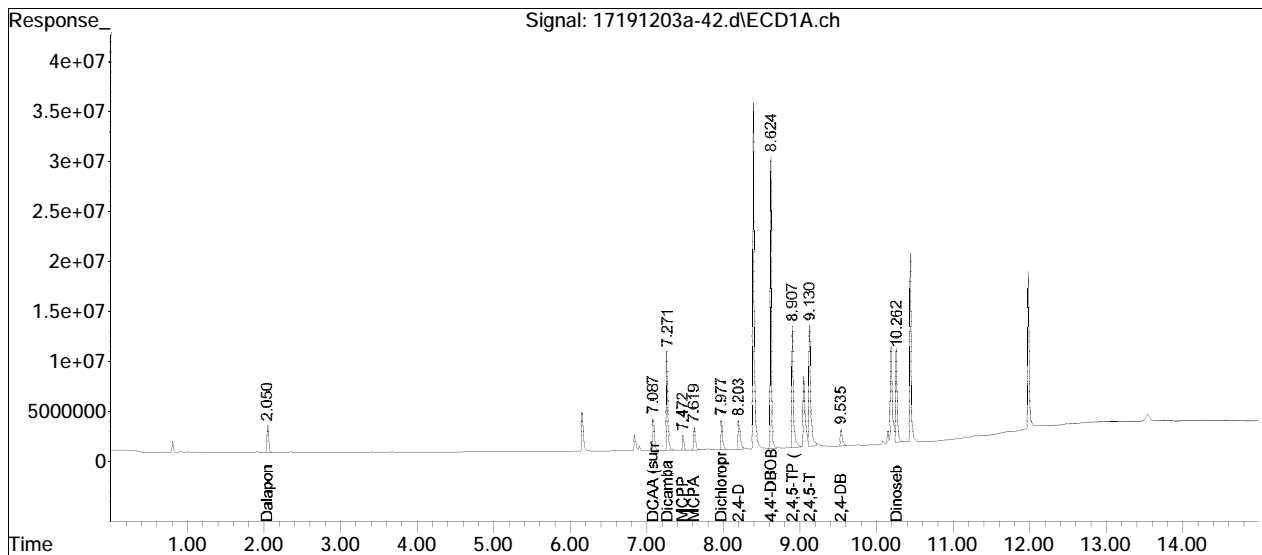
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coeluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest17\191203A\
Data File : 17191203a-42.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2019 12:03 pm
Operator : PEST17:dgm
Sample : wg1316251-5,42e,,herb cc 9495 (Sig #1); herb cc 9495 (Sig #2)
Misc : wg1316251,ical16100
ALS Vial : 87 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 12:58:32 2019
Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

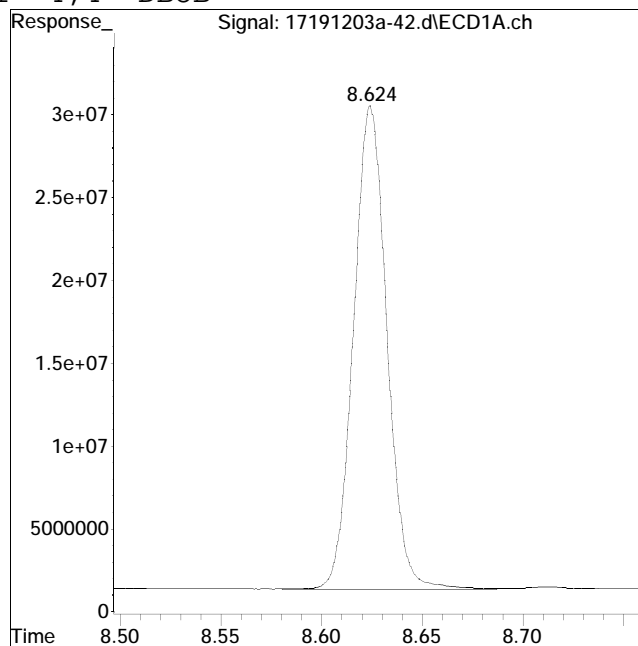
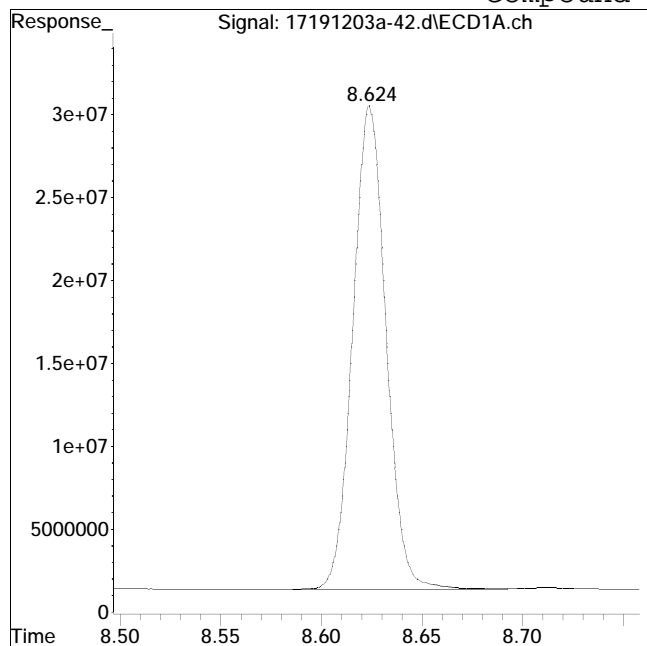
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest17\191203A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191203a-42.d Operator : PEST17:dgm
Date Inj'd : 12/4/2019 12:03 pm Instrument : Pest 17
Sample : wg1316251-5,42e,,herb cc 9Quant Date : 12/4/2019 12:52 pm

Compound #1: 4,4'-DBOB



Original Peak Response = 336053554

Manual Peak Response = 338506131 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\Pest17\191203A\
 Data File : 17191203a-51.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 4 Dec 2019 2:49 pm
 Operator : PEST17:dgm
 Sample : wg1316251-6,42e,,herb cc 9495 (Sig #1); herb cc 9495 (Sig #2)
 Misc : wg1316251,wg1316110,ical16100
 ALS Vial : 96 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 04 15:05:29 2019
 Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 i	4,4'-DBOB	0.250	0.250	0.0	55	0.00
2 t	Dalapon	0.182	0.202	-11.0	61	-0.01
3 s	DCAA (surrogate)	0.188	0.185	1.6	51	0.00
4 t	Dicamba	0.188	0.178	5.3	54	0.00
5 t	MCPD	18.800	20.094	-6.9	59	0.00
6 t	MCPA	18.600	21.719	-16.8#	67	0.00
7 t	Dichloroprop	0.188	0.184	2.1	61	0.00
8 t	2,4-D	0.188	0.200	-6.4	60	0.00
9 t	2,4,5-TP (Silvex)	0.190	0.177	6.8	53	0.00
10 t	2,4,5-T	0.190	0.188	1.1	55	0.00
11 t	2,4-DB	0.192	0.181	5.7	53	0.00
12 t	Dinoseb	0.190	0.320	-68.4#	109	0.00

Signal #2

1 i	4,4'-DBOB	0.250	0.250	0.0	61	0.00
2 t	Dalapon	0.182	0.185	-1.6	66	-0.01
3 s	DCAA (surrogate)	0.188	0.170	9.6	54	0.00
4 t	Dicamba	0.188	0.171	9.0	58	0.00
5 t	MCPD	18.800	17.483	7.0	59	0.00
6 t	MCPA	18.600	20.155	-8.4	65	0.00
7 t	Dichloroprop	0.188	0.196	-4.3	69	0.00
8 t	2,4-D	0.188	0.199	-5.9	68	0.00
9 t	2,4,5-TP (Silvex)	0.190	0.200	-5.3	68	0.00
10 t	2,4,5-T	0.190	0.196	-3.2	69	0.00
11 t	2,4-DB	0.192	0.184	4.2	62	0.00
12 t	Dinoseb	0.190	0.319	-67.9#	111	0.00

Evaluate Continuing Calibration Report - Not Found

Evaluate Continuing Calibration Report

Data Path : I:\Pest17\191203A\
 Data File : 17191203a-51.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 4 Dec 2019 2:49 pm
 Operator : PEST17:dgm
 Sample : wg1316251-6,42e,,herb cc 9495 (Sig #1); herb cc 9495 (Sig #2)
 Misc : wg1316251,wg1316110,ical16100
 ALS Vial : 96 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 04 15:05:29 2019
 Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

Signal #2					

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191203A\
 Data File : 17191203a-51.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 4 Dec 2019 2:49 pm
 Operator : PEST17:dgm
 Sample : wg1316251-6,42e,,herb cc 9495 (Sig #1); herb cc 9495 (Sig #2)
 Misc : wg1316251,wg1316110,ical16100
 ALS Vial : 96 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 04 15:05:29 2019
 Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Internal Standards							
1) i	4,4'-DFOB	8.624	8.634	371.2E6	403.2E6	0.250	0.250
System Monitoring Compounds							
3) s	DCAA (surrog	7.086	7.567	44580445	54984110	0.185	0.170
	Spiked Amount	0.500	Range 30 - 150	Recovery =		37.00%	34.00%
Target Compounds							
2) t	Dalapon	2.051	2.117	42043542	46957591	0.202M4	0.185
4) t	Dicamba	7.271	7.749	130.4E6	155.8E6	0.178	0.171
5) t	MCPD	7.471	7.859	19477191	22275611	20.094	17.483
6) t	MCPA	7.620	8.087	36916260	39584527	21.719	20.155
7) t	Dichloroprop	7.977	8.405	45157222	53819786	0.184	0.196
8) t	2,4-D	8.202	8.688	54882588	71279027	0.200	0.199
9) t	2,4,5-TP (Si	8.907	9.339	185.0E6	231.2E6	0.177	0.200
10) t	2,4,5-T	9.130	9.631	207.9E6	226.7E6	0.188	0.196
11) t	2,4-DB	9.535	9.993	32689270	37920799	0.181M4	0.184
12) t	Dinoseb	10.263	10.209	130.1E6	130.4E6	0.320	0.319

SemiQuant Compounds - Not Calibrated on this Instrument

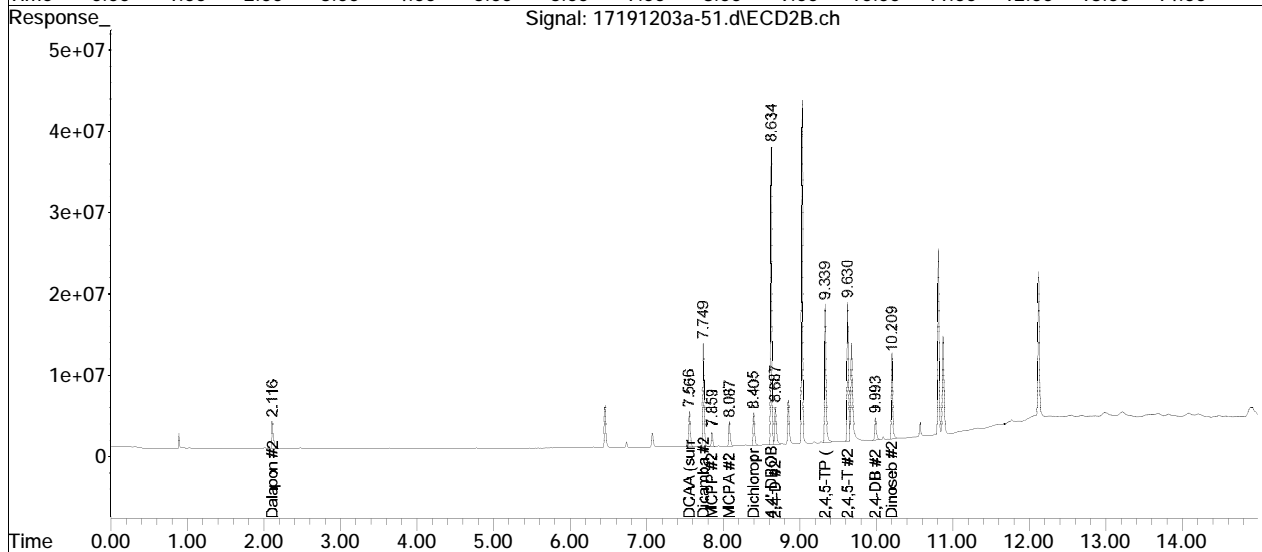
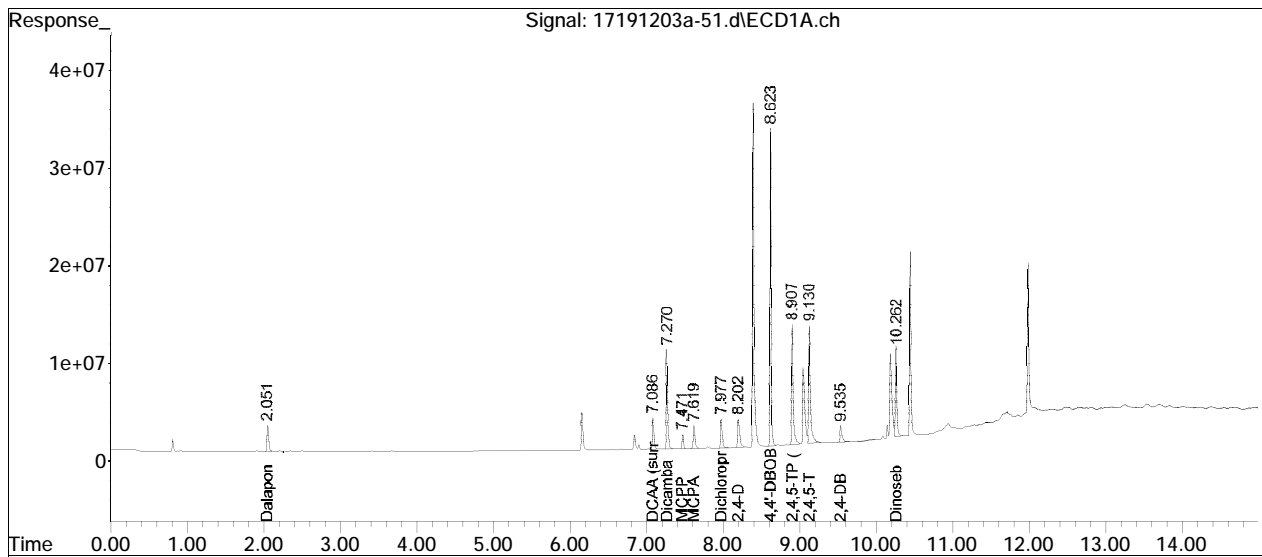
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coeluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest17\191203A\
Data File : 17191203a-51.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2019 2:49 pm
Operator : PEST17:dgm
Sample : wg1316251-6,42e,,herb cc 9495 (Sig #1); herb cc 9495 (Sig #2)
Misc : wg1316251,wg1316110,ical16100
ALS Vial : 96 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 15:05:29 2019
Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

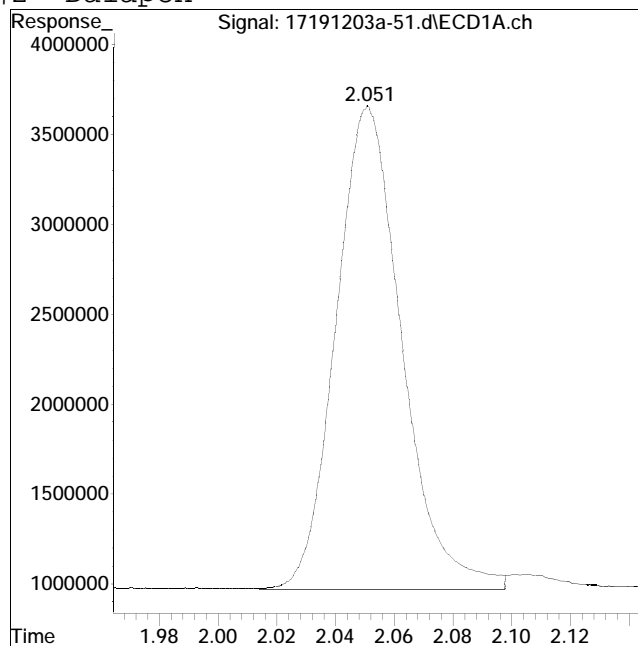
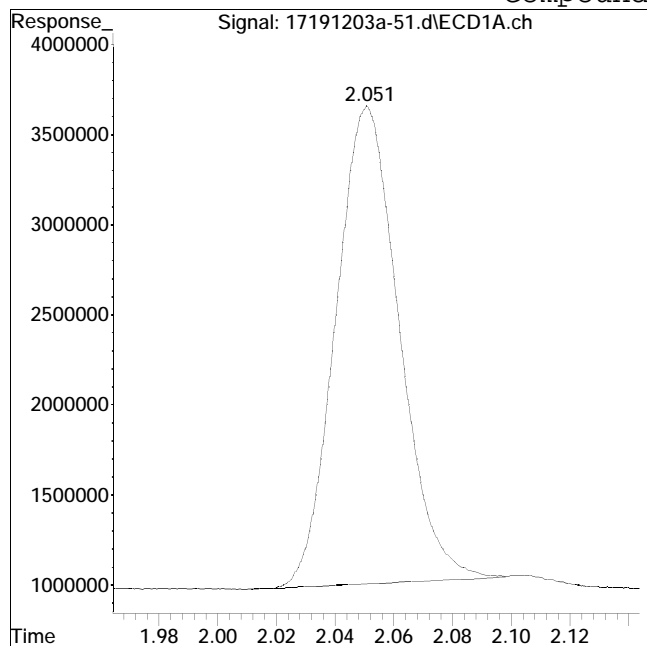
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest17\191203A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191203a-51.d Operator : PEST17:dgm
Date Inj'd : 12/4/2019 2:49 pm Instrument : Pest 17
Sample : wg1316251-6,42e,,herb cc 9Quant Date : 12/4/2019 3:04 pm

Compound #2: Dalapon



Original Peak Response = 39804858

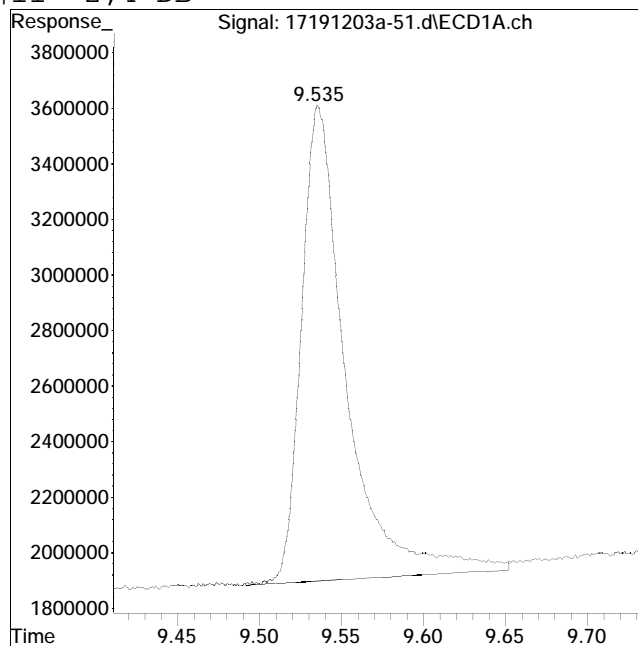
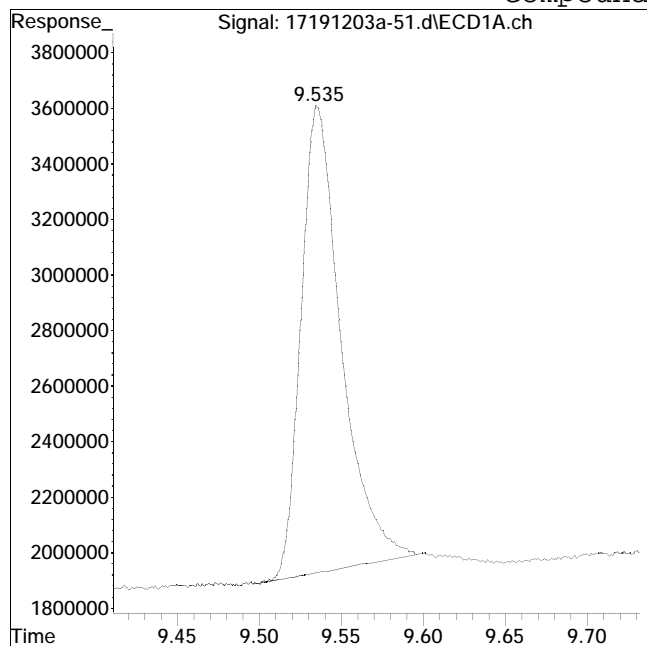
Manual Peak Response = 42043542 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191203A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191203a-51.d Operator : PEST17:dgm
Date Inj'd : 12/4/2019 2:49 pm Instrument : Pest 17
Sample : wg1316251-6,42e,,herb cc 9Quant Date : 12/4/2019 3:04 pm

Compound #11: 2,4-DB



Original Peak Response = 28649032

Manual Peak Response = 32689270 M4

M4 = Poor automated baseline construction.

Analytical Event

Continuing Calibration

Evaluate Continuing Calibration Report

Data Path : I:\Pest17\191206A\
 Data File : 17191206a-82.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Dec 2019 12:55 pm
 Operator : PEST17:dgm
 Sample : wg1317631-9,42e,, herb cc 9495
 Misc : wg1317631,wg1317130,ical16100
 ALS Vial : 82 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 08 12:10:56 2019
 Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Fri Dec 06 11:41:45 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 i	4,4'-DBOB	0.250	0.250	0.0	60	0.00
2 t	Dalapon	0.182	0.276	-51.6#	91	-0.01
3 s	DCAA (surrogate)	0.188	0.229	-21.8#	69	0.00
4 t	Dicamba	0.188	0.226	-20.2#	74	0.00
5 t	MCPD	18.800	24.125	-28.3#	77	0.00
6 t	MCPA	18.600	25.609	-37.7#	81	0.00
7 t	Dichloroprop	0.188	0.231	-22.9#	78	0.00
8 t	2,4-D	0.188	0.240	-27.7#	78	0.00
9 t	2,4,5-TP (Silvex)	0.190	0.208	-9.5	68	0.00
10 t	2,4,5-T	0.190	0.204	-7.4	65	0.00
11 t	2,4-DB	0.192	0.172	10.4	55	0.00
12 t	Dinoseb	0.190	0.310	-63.2#	114	0.00

Signal #2

1 i	4,4'-DBOB	0.250	0.250	0.0	77	0.00
2 t	Dalapon	0.182	0.184	-1.1	82	-0.01
3 s	DCAA (surrogate)	0.188	0.172	8.5	68	0.00
4 t	Dicamba	0.188	0.176	6.4	74	0.00
5 t	MCPD	18.800	17.595	6.4	74	0.00
6 t	MCPA	18.600	19.371	-4.1	78	0.00
7 t	Dichloroprop	0.188	0.192	-2.1	84	0.00
8 t	2,4-D	0.188	0.183	2.7	78	0.00
9 t	2,4,5-TP (Silvex)	0.190	0.193	-1.6	83	0.00
10 t	2,4,5-T	0.190	0.190	0.0	83	0.00
11 t	2,4-DB	0.192	0.164	14.6	69	0.00
12 t	Dinoseb	0.190	0.308	-62.1#	134	0.00

Evaluate Continuing Calibration Report - Not Found

Evaluate Continuing Calibration Report

Data Path : I:\Pest17\191206A\
 Data File : 17191206a-82.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Dec 2019 12:55 pm
 Operator : PEST17:dgm
 Sample : wg1317631-9,42e,, herb cc 9495
 Misc : wg1317631,wg1317130,ical16100
 ALS Vial : 82 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 08 12:10:56 2019
 Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Fri Dec 06 11:41:45 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

Signal #2					

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191206A\
 Data File : 17191206a-82.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Dec 2019 12:55 pm
 Operator : PEST17:dgm
 Sample : wg1317631-9,42e,, herb cc 9495
 Misc : wg1317631,wg1317130,ical16100
 ALS Vial : 82 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 08 12:10:56 2019
 Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Fri Dec 06 11:41:45 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Internal Standards							
1) i	4,4'-DFOB	8.562	8.602	402.8E6	503.3E6	0.250	0.250
System Monitoring Compounds							
3) s	DCAA (surrog	7.015	7.534	60025304	69266067	0.229	0.172
	Spiked Amount	0.500	Range 30 - 150	Recovery =		45.80%	34.40%
Target Compounds							
2) t	Dalapon	2.009	2.096	62510317	58245639	0.276	0.184 D
4) t	Dicamba	7.200	7.717	179.6E6	199.7E6	0.226M4	0.176
5) t	MCPD	7.403	7.827	25380884	27988231	24.125	17.595
6) t	MCPA	7.550	8.053	44781169	47496563	25.609M4	19.371
7) t	Dichloroprop	7.906	8.370	57728210	66073534	0.231M4	0.192M4
8) t	2,4-D	8.116	8.643	71294266	81801524	0.240	0.183
9) t	2,4,5-TP (Si	8.833	9.300	236.7E6	279.1E6	0.208	0.193
10) t	2,4,5-T	9.051	9.587	243.9E6	273.9E6	0.204	0.190
11) t	2,4-DB	9.457	9.947	33875032	42220363	0.172M4	0.164M4
12) t	Dinoseb	10.203	10.173	136.9E6	157.3E6	0.310M4	0.308

SemiQuant Compounds - Not Calibrated on this Instrument

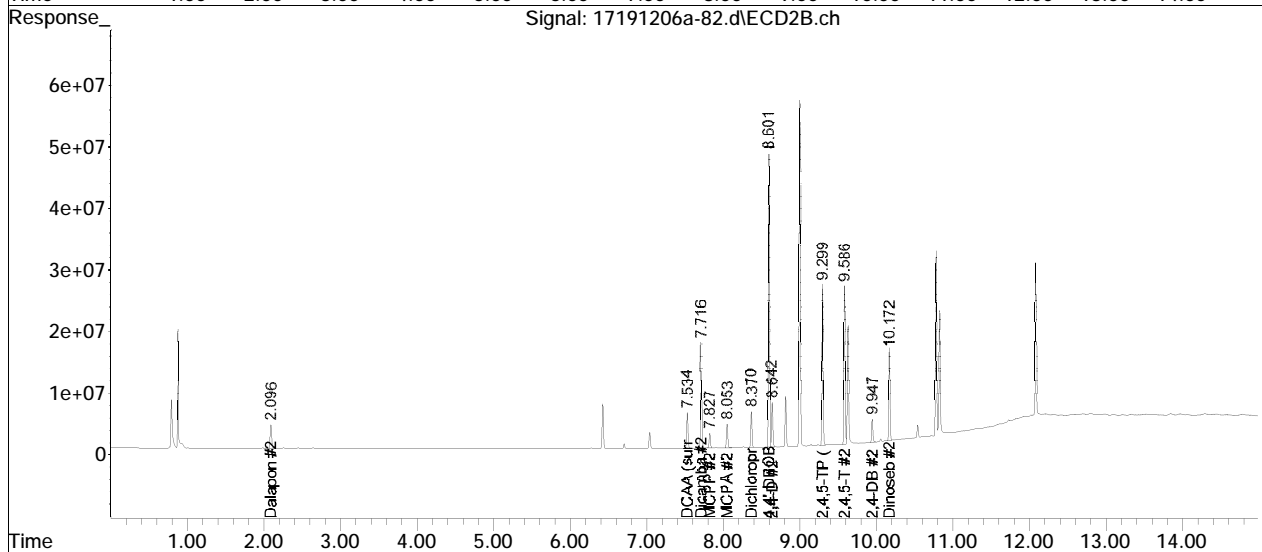
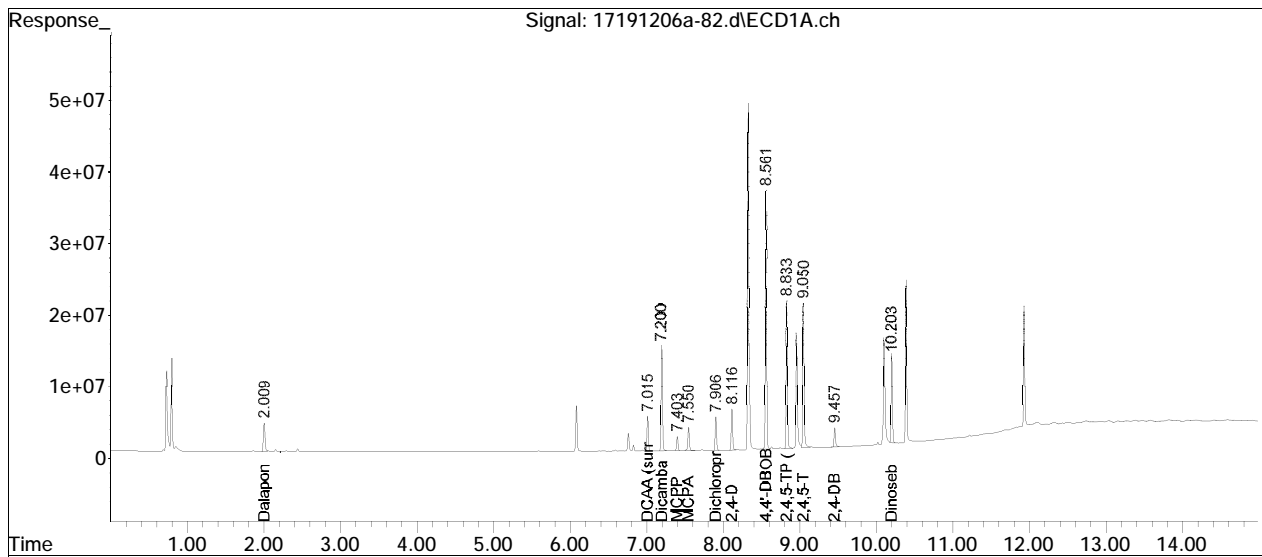
 (f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coeluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest17\191206A\
Data File : 17191206a-82.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Dec 2019 12:55 pm
Operator : PEST17:dgm
Sample : wg1317631-9,42e,, herb cc 9495
Misc : wg1317631,wg1317130,ical16100
ALS Vial : 82 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 08 12:10:56 2019
Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Fri Dec 06 11:41:45 2019
Response via : Initial Calibration
Integrator: ChemStation

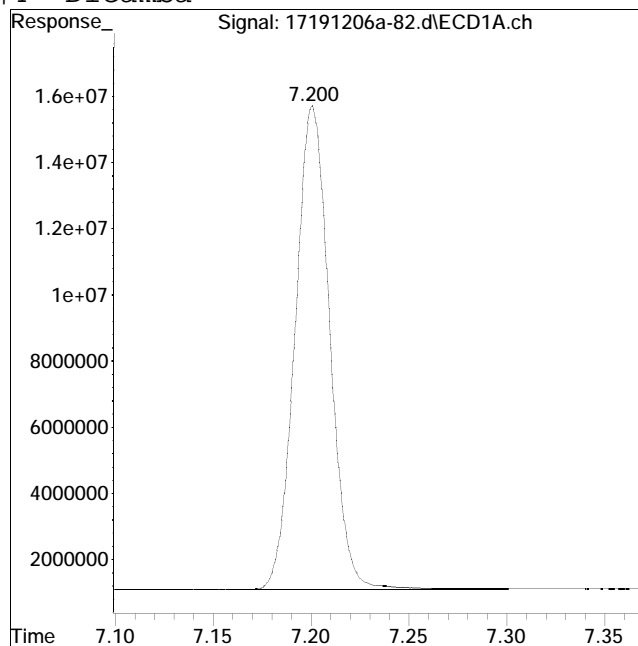
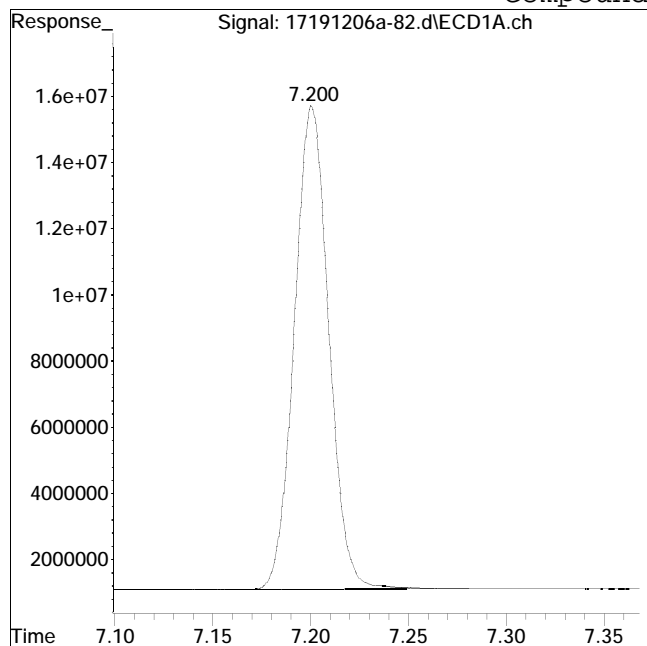
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-82.d Operator : PEST17:dgm
Date Inj'd : 12/7/2019 12:55 pm Instrument : Pest 17
Sample : wg1317631-9,42e,, herb cc Quant Date : 12/8/2019 12:09 pm

Compound #4: Dicamba



Original Peak Response = 178787286

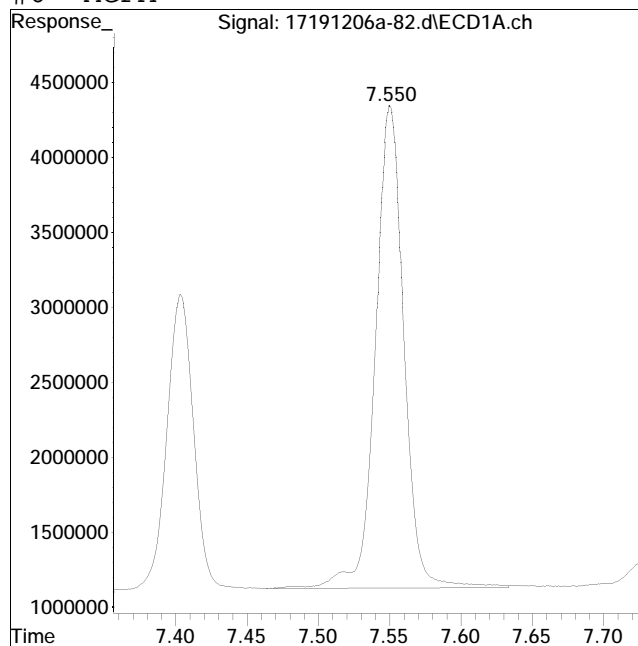
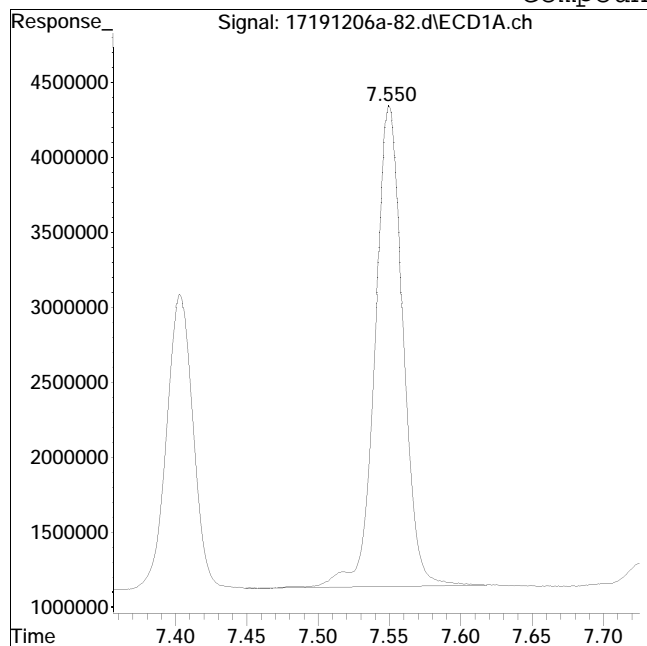
Manual Peak Response = 179579766 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-82.d Operator : PEST17:dgm
Date Inj'd : 12/7/2019 12:55 pm Instrument : Pest 17
Sample : wg1317631-9,42e,, herb cc Quant Date : 12/8/2019 12:09 pm

Compound #6: MCPA



Original Peak Response = 43724638

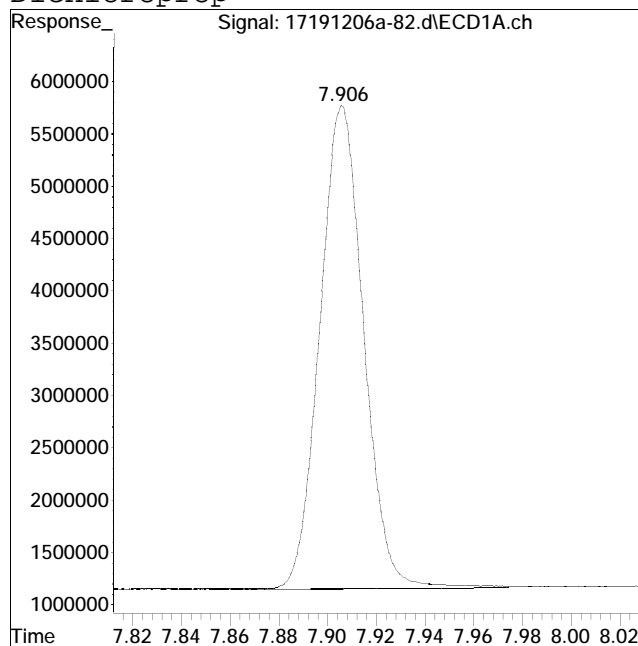
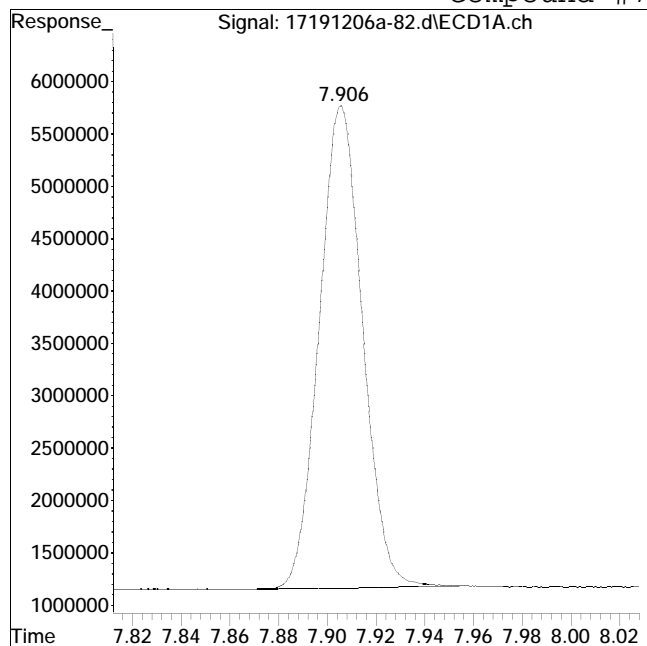
Manual Peak Response = 44781169 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-82.d Operator : PEST17:dgm
Date Inj'd : 12/7/2019 12:55 pm Instrument : Pest 17
Sample : wg1317631-9,42e,, herb cc Quant Date : 12/8/2019 12:09 pm

Compound #7: Dichloroprop



Original Peak Response = 56814732

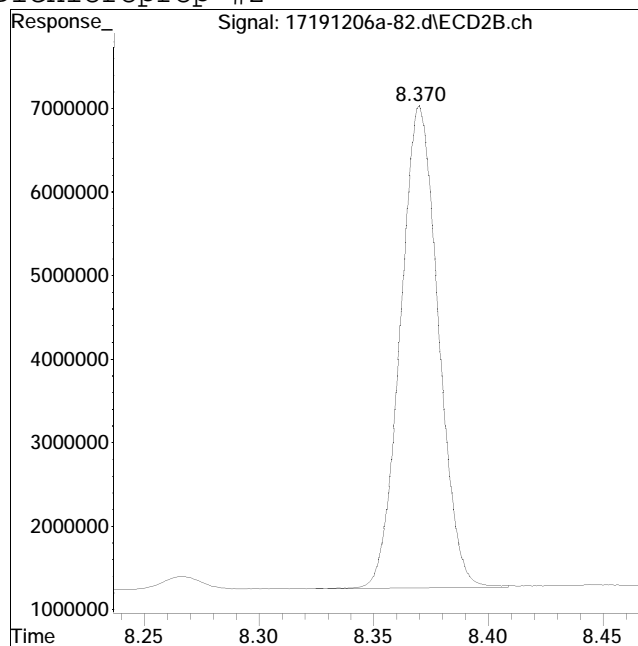
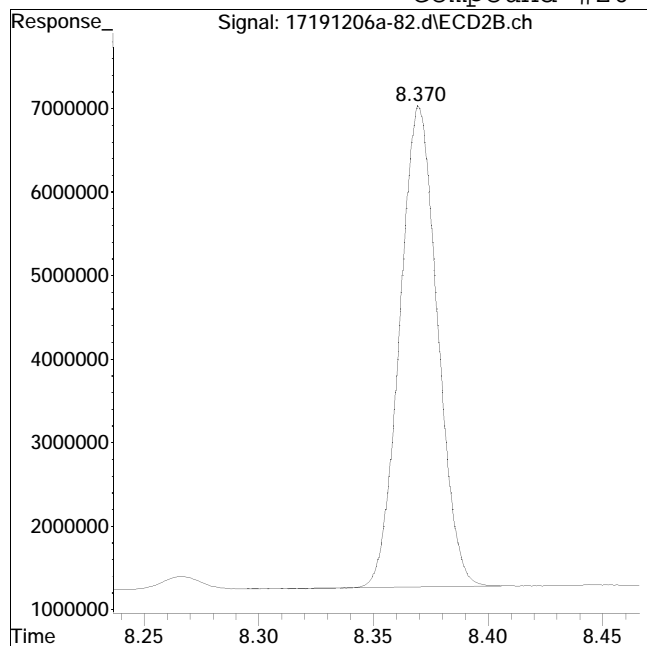
Manual Peak Response = 57728210 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-82.d Operator : PEST17:dgm
Date Inj'd : 12/7/2019 12:55 pm Instrument : Pest 17
Sample : wg1317631-9,42e,, herb cc Quant Date : 12/8/2019 12:09 pm

Compound #20: Dichloroprop #2



Original Peak Response = 65474151

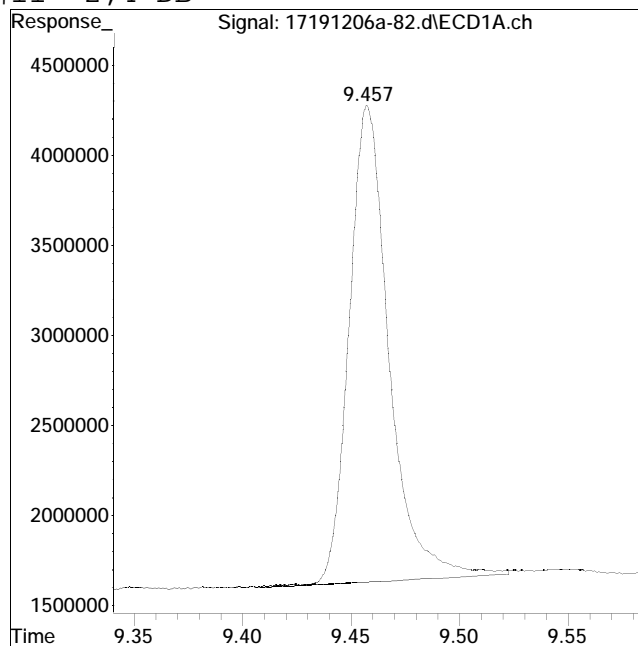
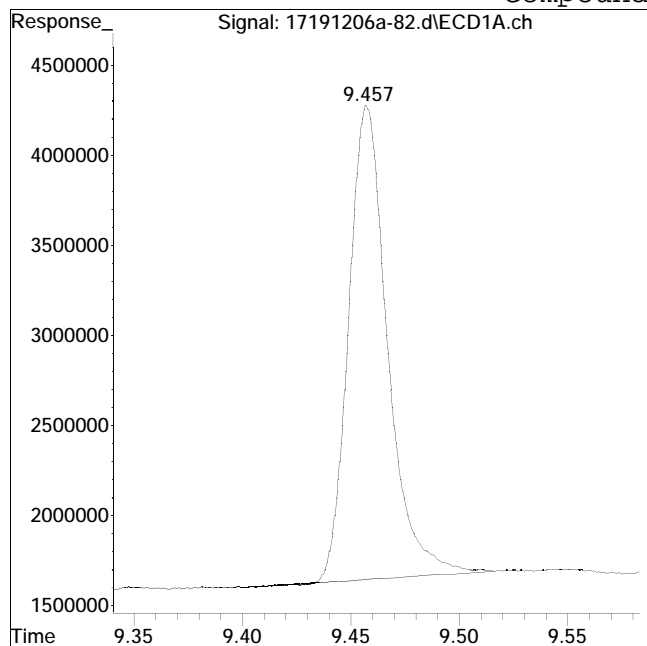
Manual Peak Response = 66073534 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-82.d Operator : PEST17:dgm
Date Inj'd : 12/7/2019 12:55 pm Instrument : Pest 17
Sample : wg1317631-9,42e,, herb cc Quant Date : 12/8/2019 12:09 pm

Compound #11: 2,4-DB



Original Peak Response = 32813172

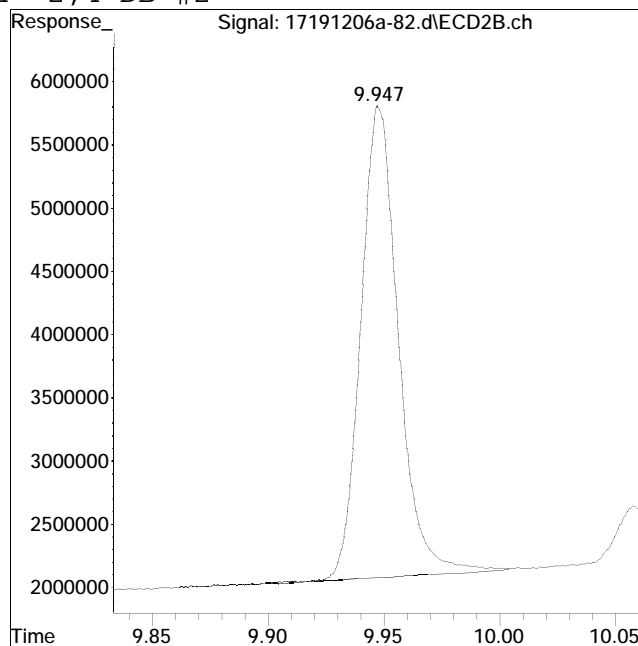
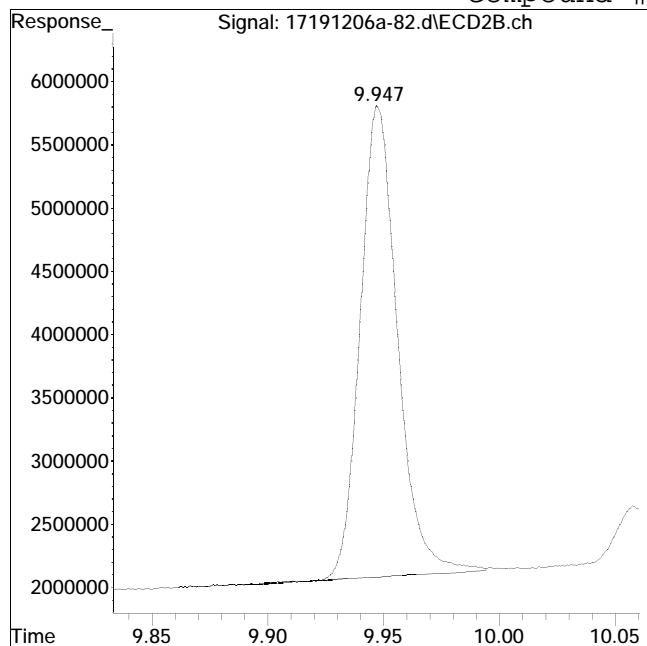
Manual Peak Response = 33875032 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-82.d Operator : PEST17:dgm
Date Inj'd : 12/7/2019 12:55 pm Instrument : Pest 17
Sample : wg1317631-9,42e,, herb cc Quant Date : 12/8/2019 12:09 pm

Compound #24: 2,4-DB #2



Original Peak Response = 41849068

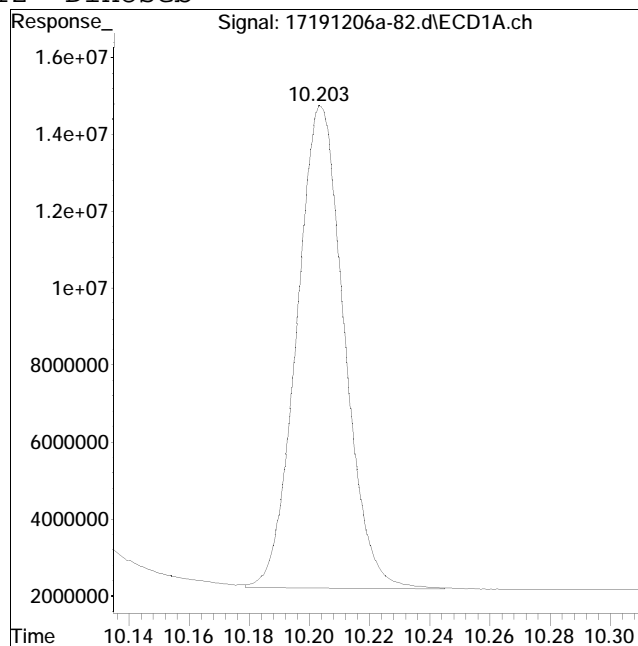
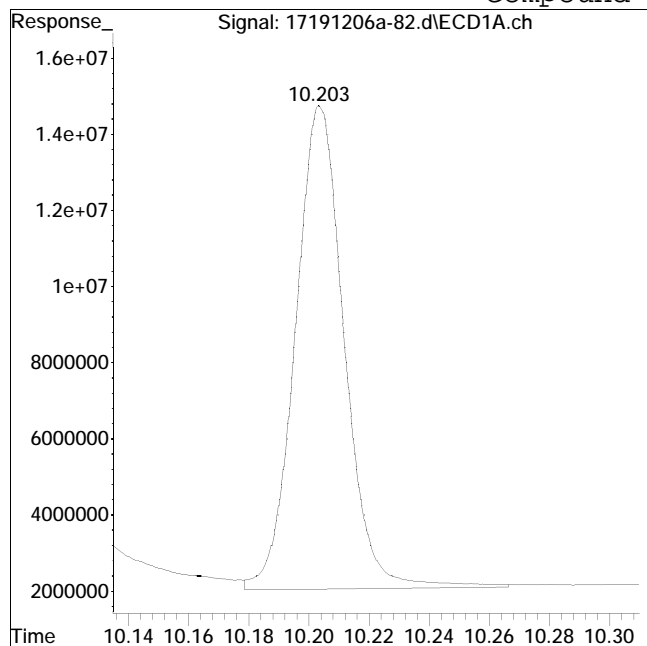
Manual Peak Response = 42220363 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-82.d Operator : PEST17:dgm
Date Inj'd : 12/7/2019 12:55 pm Instrument : Pest 17
Sample : wg1317631-9,42e,, herb cc Quant Date : 12/8/2019 12:09 pm

Compound #12: Dinoseb



Original Peak Response = 143746703

Manual Peak Response = 136927241 M4

M4 = Poor automated baseline construction.

Sample Raw Data

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191206A\
 Data File : 17191206a-86.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Dec 2019 2:08 pm
 Operator : PEST17:jmc
 Sample : 11957339-07,42e,, 8151
 Misc : wgl1317631,wgl1314990,ical16100
 ALS Vial : 86 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 09 17:29:38 2019
 Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Fri Dec 06 11:41:45 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191206A\17191206a-82.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.559	8.602	426.1E6	525.1E6	0.250	0.250
Standard Area 1 : #1 = 402835568					Recovery = 105.77%	
Standard Area 1 : #2 = 503337357					Recovery = 104.33%	
System Monitoring Compounds						
3) s DCAA (surrog	7.013	7.533	101.2E6	203.1E6	0.366	0.483
Spiked Amount	0.500	Range 30 - 150			Recovery = 73.20%	96.60%
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t Dicamba	0.000	0.000	0	0	N.D. d	N.D.
5) t MCPP	0.000	0.000	0	0	N.D.	N.D.
6) t MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D.	N.D. d
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

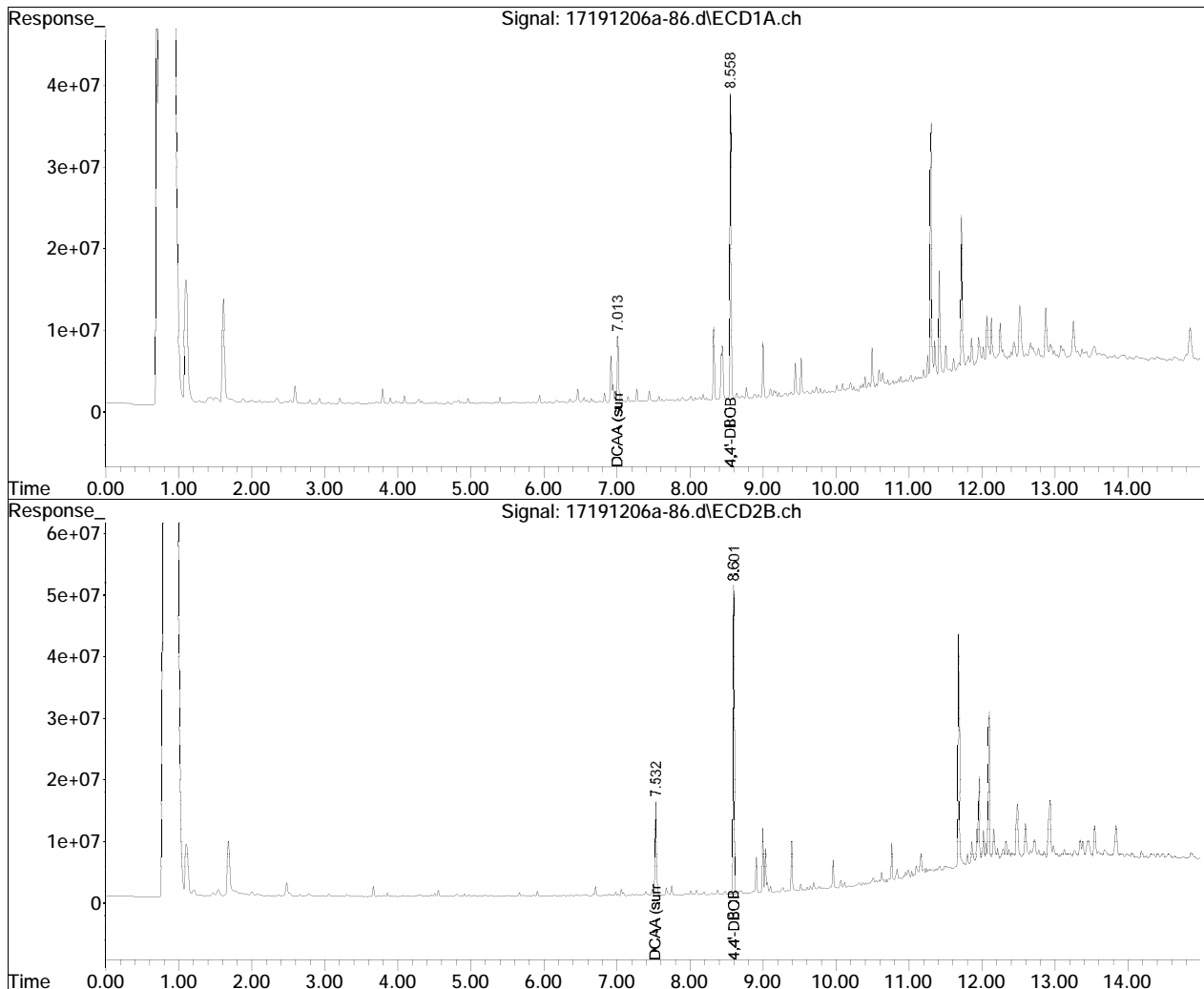
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed a-82.d••d)

Data Path : I:\Pest17\191206A\
Data File : 17191206a-86.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Dec 2019 2:08 pm
Operator : PEST17:jmc
Sample : 11957339-07,42e,, 8151
Misc : wg1317631,wg1314990,ical16100
ALS Vial : 86 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 09 17:29:38 2019
Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Fri Dec 06 11:41:45 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest17\191206A\	QMethod	: Herb17_09_03_ICAL16100.m
Data File	: 17191206a-86.d	Operator	: PEST17:jmc
Date Inj'd	: 12/7/2019 2:08 pm	Instrument	: Pest 17
Sample	: 11957339-07,42e,, 8151	Quant Date	: 12/9/2019 5:28 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191206A\
 Data File : 17191206a-87.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Dec 2019 2:26 pm
 Operator : PEST17:jmc
 Sample : 11957339-08,42e,, 8151
 Misc : wgl1317631,wgl1314990,ical16100
 ALS Vial : 87 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 09 17:30:52 2019
 Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Fri Dec 06 11:41:45 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191206A\17191206a-82.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.559	8.602	533.6E6	668.0E6	0.250	0.250
Standard Area 1 : #1 = 402835568					Recovery =	132.47%
Standard Area 1 : #2 = 503337357					Recovery =	132.70%
System Monitoring Compounds						
3) s DCAA (surrog	7.013	7.534	127.9E6	143.1E6	0.369	0.267
Spiked Amount	0.500	Range 30 - 150			Recovery =	73.80% 53.40%
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t MCPP	0.000	0.000	0	0	N.D.	N.D. d
6) t MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D.	N.D.
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D.	N.D.
10) t 2,4,5-T	0.000	0.000	0	0	N.D.	N.D. d
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

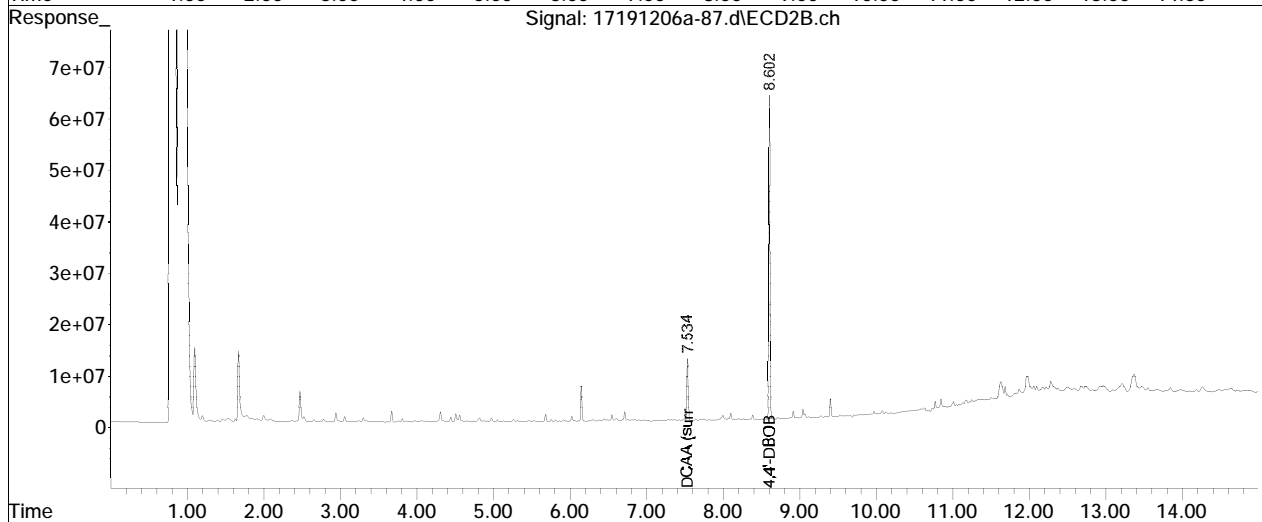
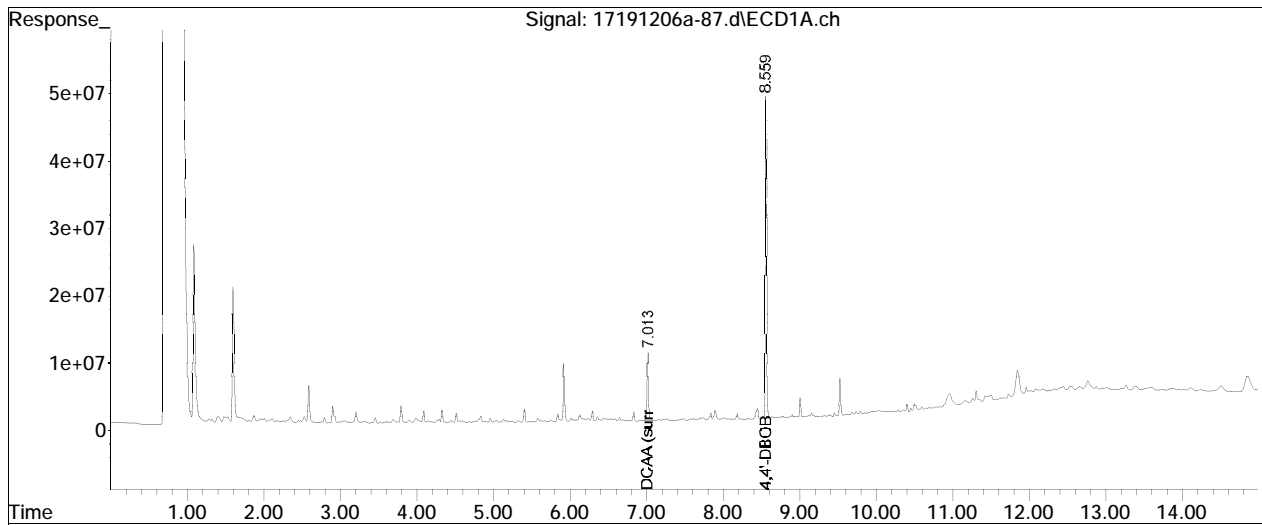
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed a-82.d••d)

Data Path : I:\Pest17\191206A\
Data File : 17191206a-87.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Dec 2019 2:26 pm
Operator : PEST17:jmc
Sample : 11957339-08,42e,, 8151
Misc : wg1317631,wg1314990,ical16100
ALS Vial : 87 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 09 17:30:52 2019
Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Fri Dec 06 11:41:45 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest17\191206A\	QMethod	: Herb17_09_03_ICAL16100.m
Data File	: 17191206a-87.d	Operator	: PEST17:jmc
Date Inj'd	: 12/7/2019 2:26 pm	Instrument	: Pest 17
Sample	: 11957339-08,42e,, 8151	Quant Date	: 12/9/2019 5:29 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191206A\
 Data File : 17191206a-88.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Dec 2019 2:45 pm
 Operator : PEST17:jmc
 Sample : 11957339-09,42e,, 8151
 Misc : wgl1317631,WG1315317,ical16100
 ALS Vial : 88 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 09 17:31:35 2019
 Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Fri Dec 06 11:41:45 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191206A\17191206a-82.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.559	8.602	304.0E6	384.2E6	0.250	0.250
Standard Area 1 : #1 = 402835568					Recovery =	75.48%
Standard Area 1 : #2 = 503337357					Recovery =	76.34%
System Monitoring Compounds						
3) s DCAA (surrog	7.014	7.534	94877996	115.2E6	0.480	0.374
Spiked Amount	0.500	Range 30 - 150		Recovery =	96.00%	74.80%
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D.	N.D.
4) t Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t MCPA	0.000	0.000	0	0	N.D.	N.D. d
7) t Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D.	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D.	N.D.
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D.

SemiQuant Compounds - Not Calibrated on this Instrument

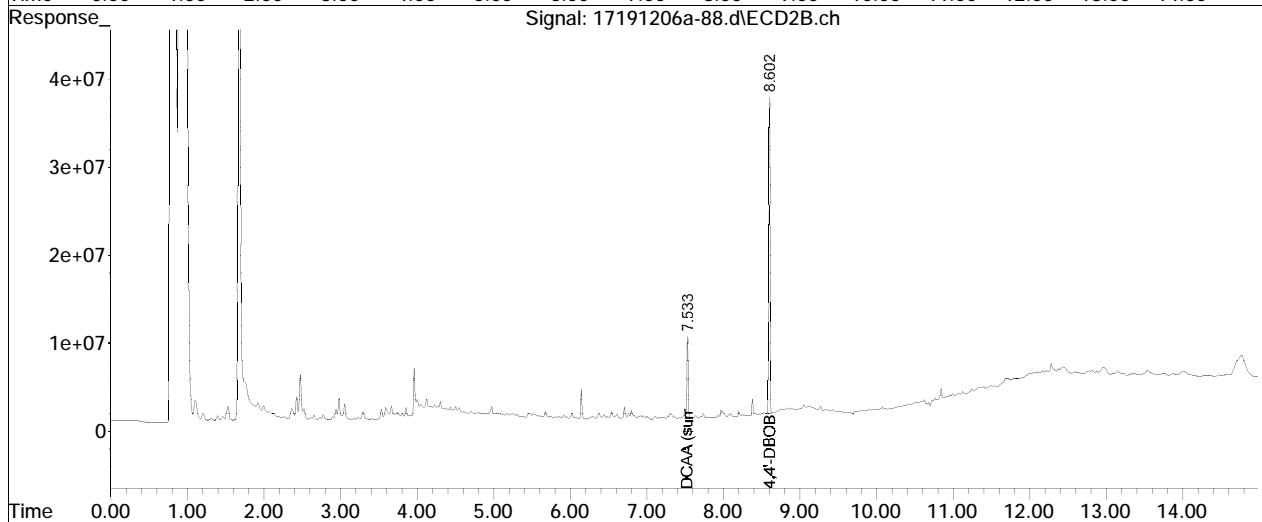
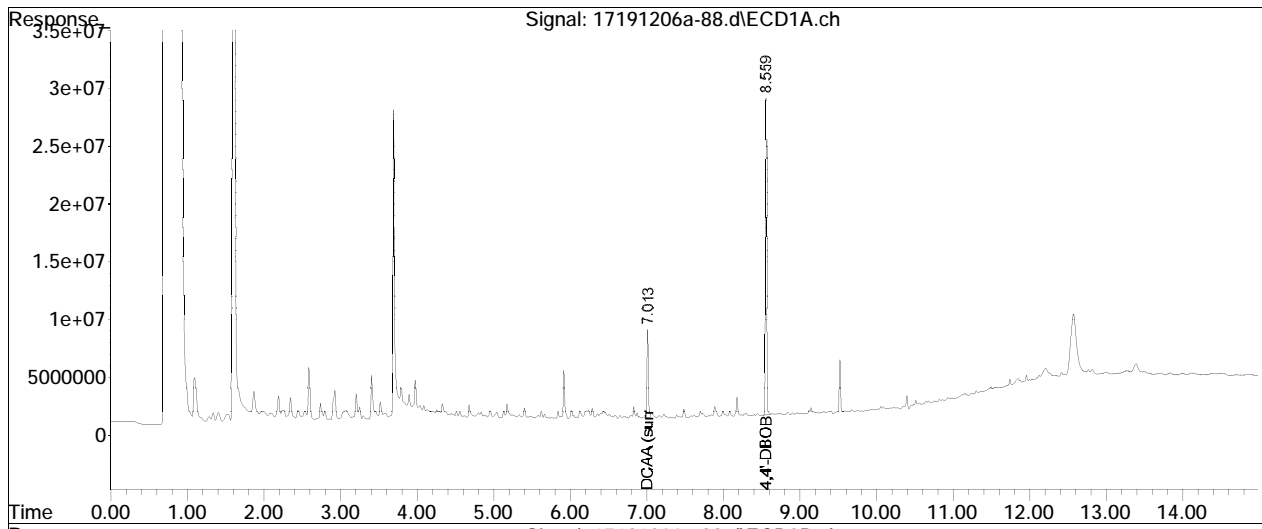
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed a-82.d••d)

Data Path : I:\Pest17\191206A\
Data File : 17191206a-88.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Dec 2019 2:45 pm
Operator : PEST17:jmc
Sample : 11957339-09,42e,, 8151
Misc : wg1317631,WG1315317,ical16100
ALS Vial : 88 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 09 17:31:35 2019
Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Fri Dec 06 11:41:45 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest17\191206A\	QMethod	: Herb17_09_03_ICAL16100.m
Data File	: 17191206a-88.d	Operator	: PEST17:jmc
Date Inj'd	: 12/7/2019 2:45 pm	Instrument	: Pest 17
Sample	: 11957339-09,42e,, 8151	Quant Date	: 12/9/2019 5:30 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191206A\
 Data File : 17191206a-89.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Dec 2019 3:03 pm
 Operator : PEST17:jmc
 Sample : 11957339-11,42e,, 8151 P
 Misc : wgl1317631,wgl1314990,ical16100
 ALS Vial : 89 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 09 17:32:15 2019
 Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Fri Dec 06 11:41:45 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191206A\17191206a-82.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.559	8.603	557.0E6	705.0E6	0.250	0.250
Standard Area 1 : #1 = 402835568					Recovery = 138.27%	
Standard Area 1 : #2 = 503337357					Recovery = 140.06%	
System Monitoring Compounds						
3) s DCAA (surrog	7.013	7.534	130.9E6	147.6E6	0.362	0.261
Spiked Amount	0.500	Range 30 - 150			Recovery = 72.40%	52.20%
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t MCPP	0.000	0.000	0	0	N.D.	N.D. d
6) t MCPA	0.000	0.000	0	0	N.D.	N.D. d
7) t Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D.	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D.	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D.	N.D. d
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

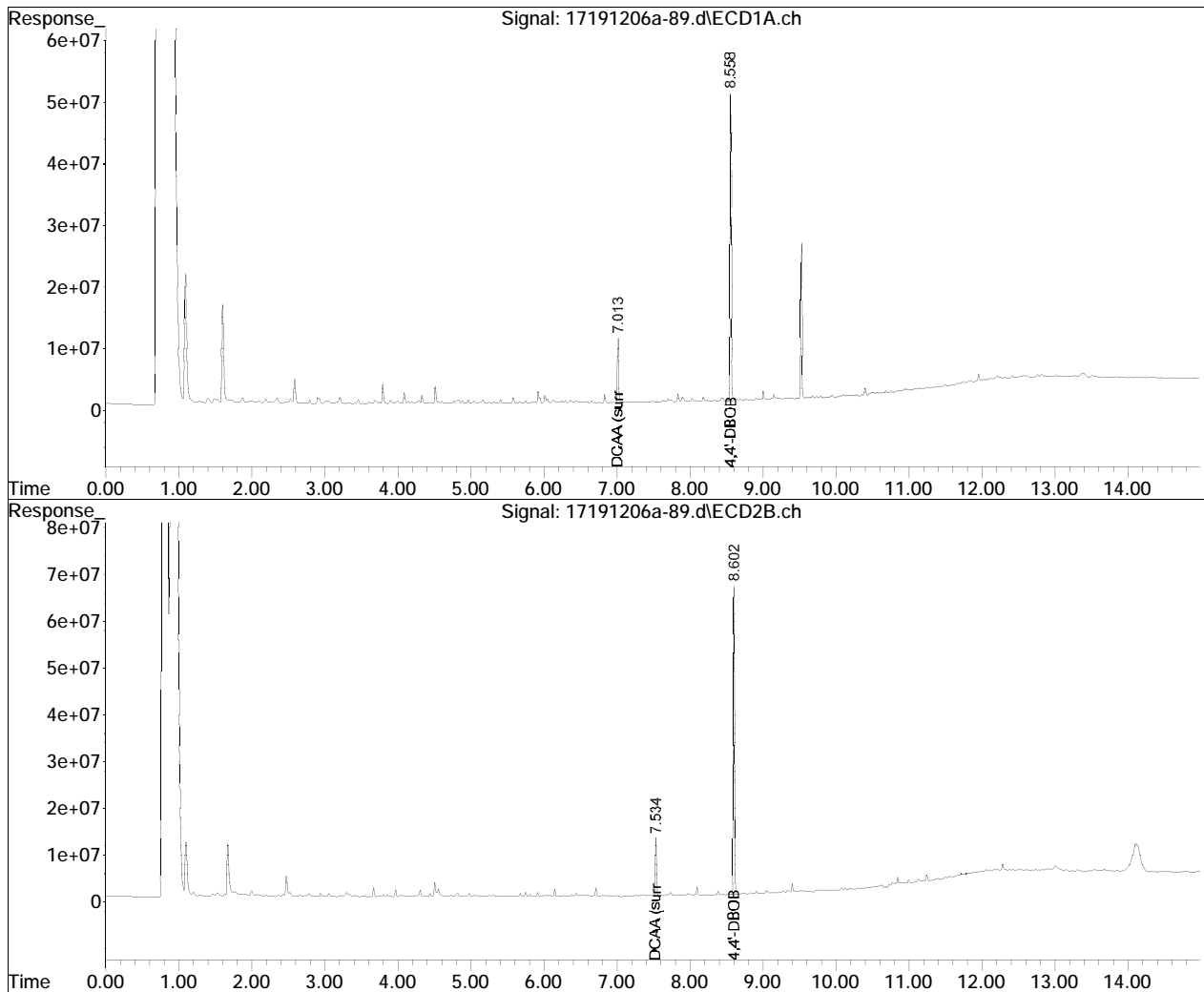
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed a-82.d••d)

Data Path : I:\Pest17\191206A\
Data File : 17191206a-89.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Dec 2019 3:03 pm
Operator : PEST17:jmc
Sample : 11957339-11,42e,, 8151 P
Misc : wg1317631,wg1314990,ical16100
ALS Vial : 89 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 09 17:32:15 2019
Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Fri Dec 06 11:41:45 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-89.d Operator : PEST17:jmc
Date Inj'd : 12/7/2019 3:03 pm Instrument : Pest 17
Sample : 11957339-11,42e,, 8151 P Quant Date : 12/9/2019 5:31 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191206A\
 Data File : 17191206a-92.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Dec 2019 3:58 pm
 Operator : PEST17:jmc
 Sample : 11957339-12,42e,, 8151
 Misc : wgl1317631,wgl1314990,ical16100
 ALS Vial : 92 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 09 17:36:42 2019
 Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Fri Dec 06 11:41:45 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191206A\17191206a-82.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.561	8.602	571.0E6	719.3E6	0.250	0.250
Standard Area 1 : #1 = 402835568					Recovery = 141.75%	
Standard Area 1 : #2 = 503337357					Recovery = 142.90%	
System Monitoring Compounds						
3) s DCAA (surrog	7.014	7.534	133.0E6	149.9E6	0.359M4	0.260
Spiked Amount	0.500	Range 30 - 150		Recovery = 71.80%		52.00%
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

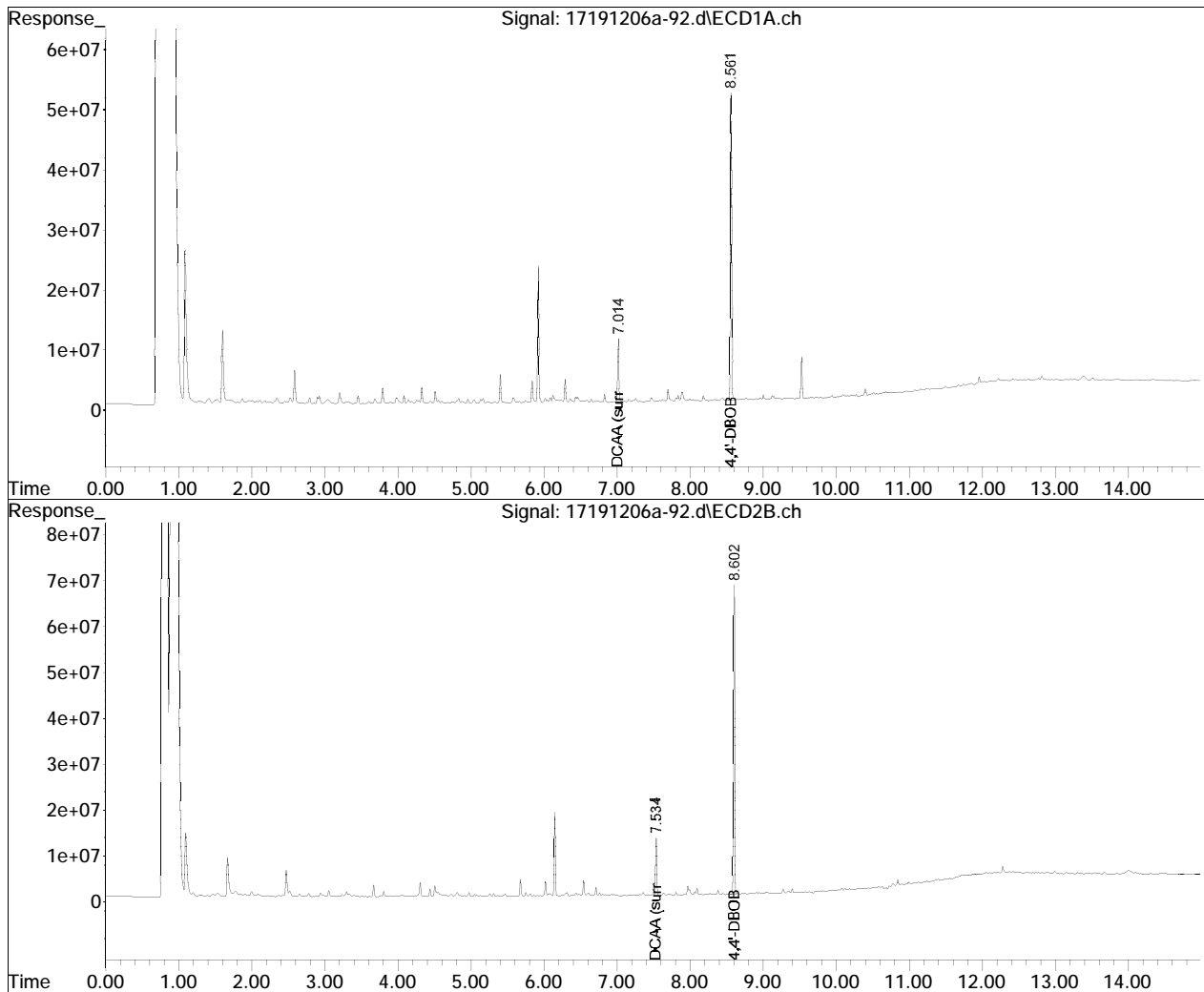
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda-82.d••d)

Data Path : I:\Pest17\191206A\
Data File : 17191206a-92.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Dec 2019 3:58 pm
Operator : PEST17:jmc
Sample : 11957339-12,42e,, 8151
Misc : wg1317631,wg1314990,ical16100
ALS Vial : 92 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 09 17:36:42 2019
Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Fri Dec 06 11:41:45 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

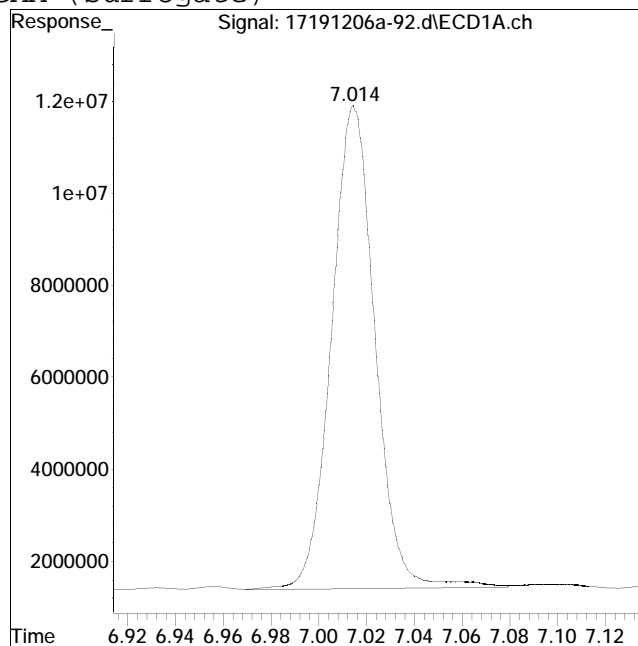
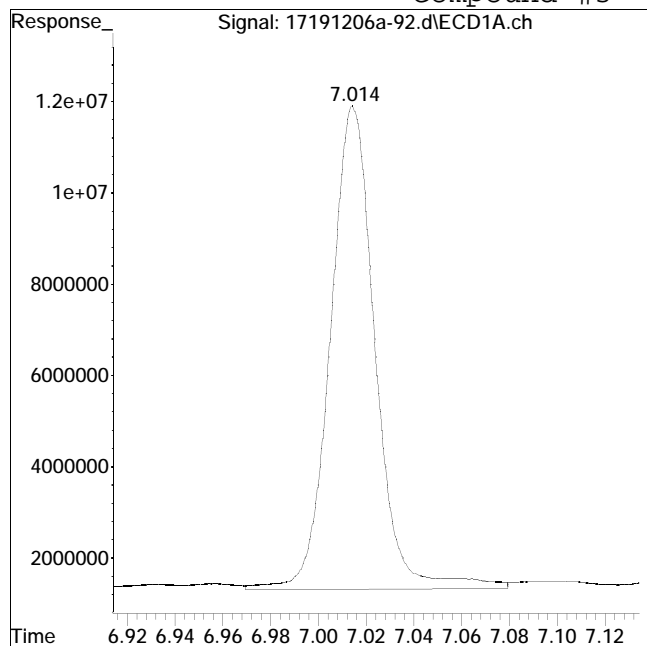


Manual Integration Report

Data Path : I:\Pest17\191206A\
Data File : 17191206a-92.d
Date Inj'd : 12/7/2019 3:58 pm
Sample : 11957339-12,42e,, 8151

QMethod : Herb17_09_03_ICAL16100.m
Operator : PEST17:jmc
Instrument : Pest 17
Quant Date : 12/9/2019 5:36 pm

Compound #3: DCAA (surrogate)



Original Peak Response = 138788112

Manual Peak Response = 133002125 M4

M4 = Poor automated baseline construction.

Analytical Event

Continuing Calibration

Evaluate Continuing Calibration Report

Data Path : I:\Pest17\191206A\
 Data File : 17191206a-93.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Dec 2019 4:16 pm
 Operator : PEST17:dgm
 Sample : wg1317631-10,42e,, herb cc 9495
 Misc : wg1317631,wg1314990,ical16100
 ALS Vial : 93 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 08 12:14:34 2019
 Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Fri Dec 06 11:41:45 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 i	4,4'-DBOB	0.250	0.250	0.0	50	0.00
2 t	Dalapon	0.182	0.333	-83.0#	92	0.00
3 s	DCAA (surrogate)	0.188	0.245	-30.3#	62	0.00
4 t	Dicamba	0.188	0.238	-26.6#	65	0.00
5 t	MCP	18.800	25.279	-34.5#	67	0.00
6 t	MCPA	18.600	27.398	-47.3#	71	0.00
7 t	Dichloroprop	0.188	0.239	-27.1#	67	0.00
8 t	2,4-D	0.188	0.253	-34.6#	69	0.00
9 t	2,4,5-TP (Silvex)	0.190	0.211	-11.1	58	0.00
10 t	2,4,5-T	0.190	0.206	-8.4	54	0.00
11 t	2,4-DB	0.192	0.168	12.5	45	0.00
12 t	Dinoseb	0.190	0.338	-77.9#	105	0.00

Signal #2

1 i	4,4'-DBOB	0.250	0.250	0.0	64	0.00
2 t	Dalapon	0.182	0.212	-16.5#	80	0.00
3 s	DCAA (surrogate)	0.188	0.180	4.3	60	0.00
4 t	Dicamba	0.188	0.183	2.7	65	0.00
5 t	MCP	18.800	18.278	2.8	65	0.00
6 t	MCPA	18.600	20.293	-9.1	68	0.00
7 t	Dichloroprop	0.188	0.196	-4.3	72	0.00
8 t	2,4-D	0.188	0.191	-1.6	69	0.00
9 t	2,4,5-TP (Silvex)	0.190	0.198	-4.2	71	0.00
10 t	2,4,5-T	0.190	0.197	-3.7	73	0.00
11 t	2,4-DB	0.192	0.172	10.4	61	0.00
12 t	Dinoseb	0.190	0.321	-68.9#	118	0.00

Evaluate Continuing Calibration Report - Not Found

Evaluate Continuing Calibration Report

Data Path : I:\Pest17\191206A\
 Data File : 17191206a-93.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Dec 2019 4:16 pm
 Operator : PEST17:dgm
 Sample : wg1317631-10,42e,, herb cc 9495
 Misc : wg1317631,wg1314990,ical16100
 ALS Vial : 93 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 08 12:14:34 2019
 Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Fri Dec 06 11:41:45 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

Signal #2					

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191206A\
 Data File : 17191206a-93.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Dec 2019 4:16 pm
 Operator : PEST17:dgm
 Sample : wg1317631-10,42e,, herb cc 9495
 Misc : wg1317631,wg1314990,ical16100
 ALS Vial : 93 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 08 12:14:34 2019
 Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Fri Dec 06 11:41:45 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l	

Internal Standards								
1) i	4,4'-DFOB	8.561	8.602	336.3E6	423.2E6	0.250	0.250	
System Monitoring Compounds								
3) s	DCAA (surrog	7.016	7.534	53632713	60963108	0.245	0.180	
	Spiked Amount	0.500	Range 30 - 150	Recovery =		49.00%	36.00%	
Target Compounds								
2) t	Dalapon	2.016	2.104	62888409	56563157	0.333M4	0.212	D
4) t	Dicamba	7.201	7.716	157.8E6	174.8E6	0.238	0.183	
5) t	MCPD	7.404	7.826	22203211	24443490	25.279	18.278	
6) t	MCPA	7.551	8.053	39196875	41830788	27.398	20.293	
7) t	Dichloroprop	7.906	8.370	49371164	56518680	0.239	0.196	
8) t	2,4-D	8.115	8.643	62894460	71593306	0.253M4	0.191	
9) t	2,4,5-TP (Si	8.833	9.299	200.5E6	240.7E6	0.211M4	0.198	
10) t	2,4,5-T	9.050	9.587	205.6E6	238.8E6	0.206	0.197	
11) t	2,4-DB	9.457	9.948	27518770	37265400	0.168	0.172	
12) t	Dinoseb	10.203	10.172	125.1E6	138.1E6	0.338	0.321	

SemiQuant Compounds - Not Calibrated on this Instrument

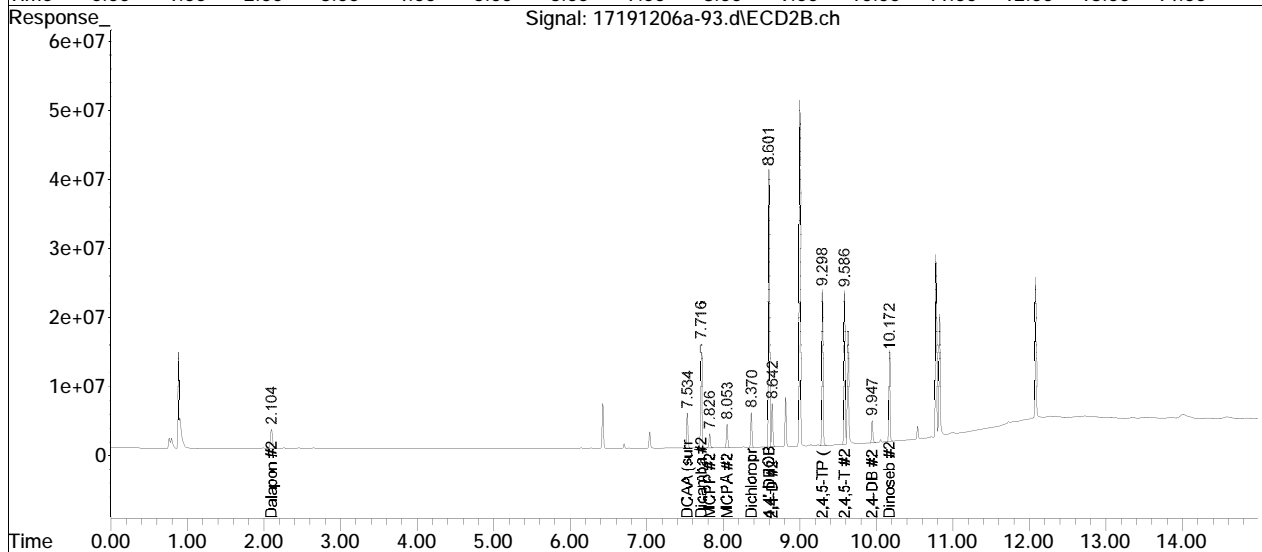
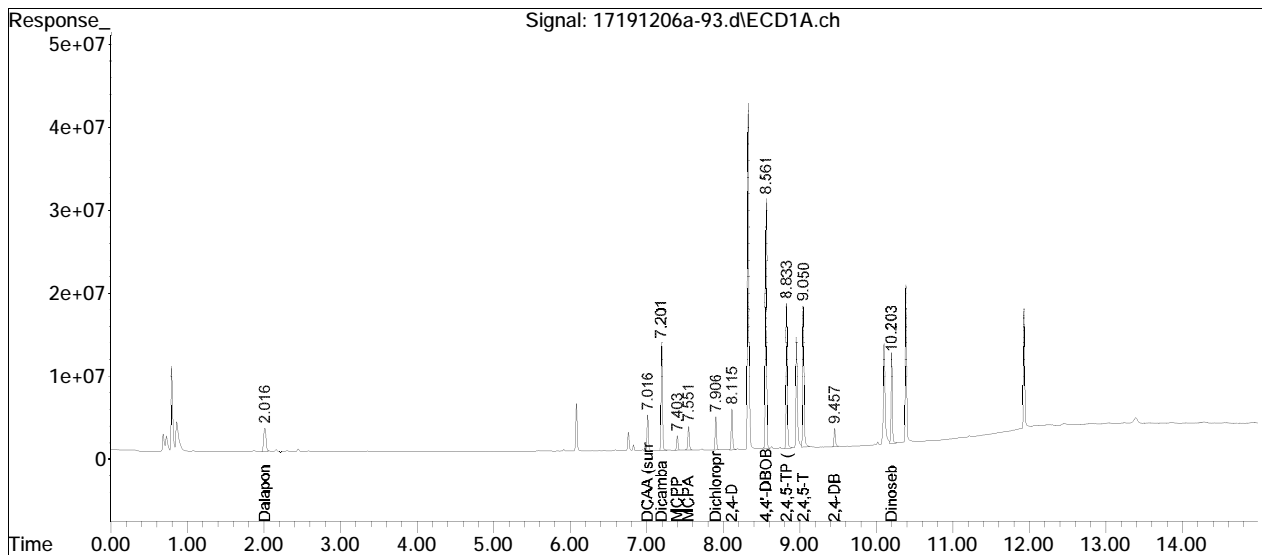
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coeluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest17\191206A\
Data File : 17191206a-93.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Dec 2019 4:16 pm
Operator : PEST17:dgm
Sample : wg1317631-10,42e,, herb cc 9495
Misc : wg1317631,wg1314990,ical16100
ALS Vial : 93 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 08 12:14:34 2019
Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Fri Dec 06 11:41:45 2019
Response via : Initial Calibration
Integrator: ChemStation

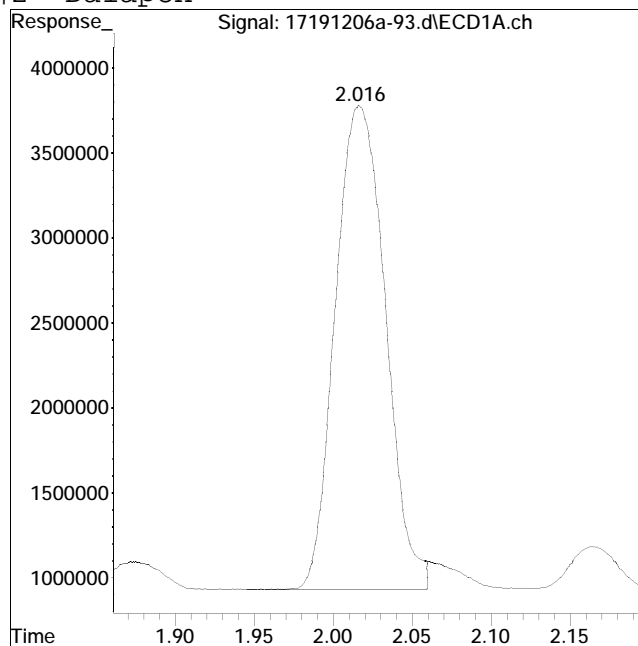
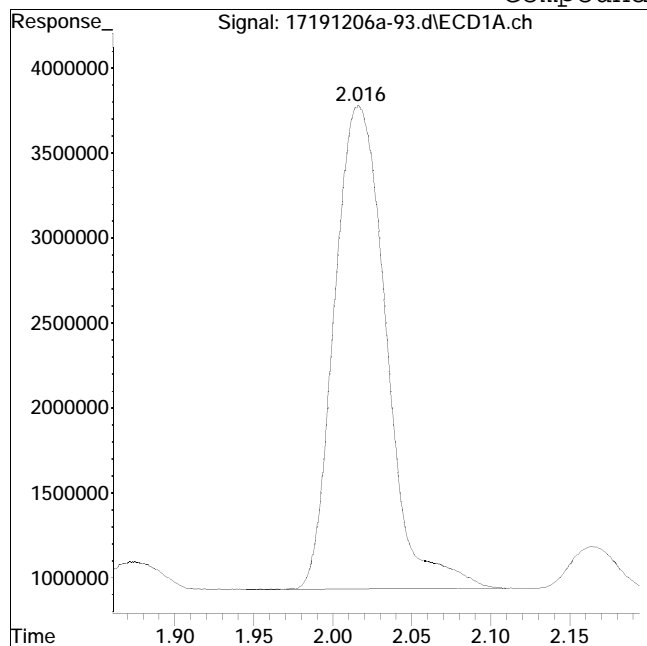
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-93.d Operator : PEST17:dgm
Date Inj'd : 12/7/2019 4:16 pm Instrument : Pest 17
Sample : wg1317631-10,42e,, herb ccQuant Date : 12/8/2019 12:13 pm

Compound #2: Dalapon



Original Peak Response = 64850562

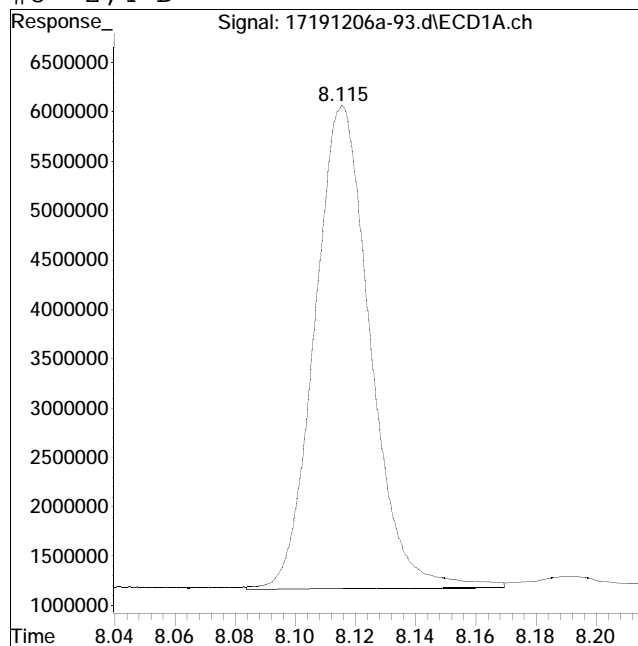
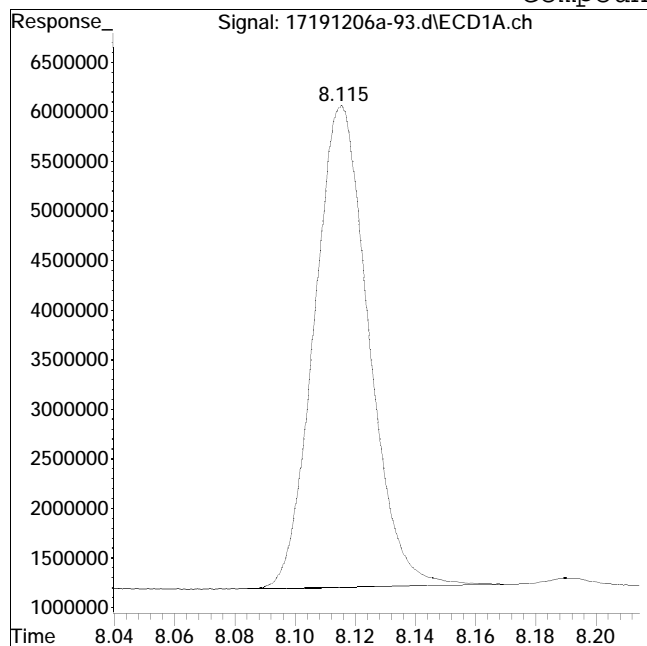
Manual Peak Response = 62888409 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-93.d Operator : PEST17:dgm
Date Inj'd : 12/7/2019 4:16 pm Instrument : Pest 17
Sample : wg1317631-10,42e,, herb ccQuant Date : 12/8/2019 12:13 pm

Compound #8: 2,4-D



Original Peak Response = 60930926

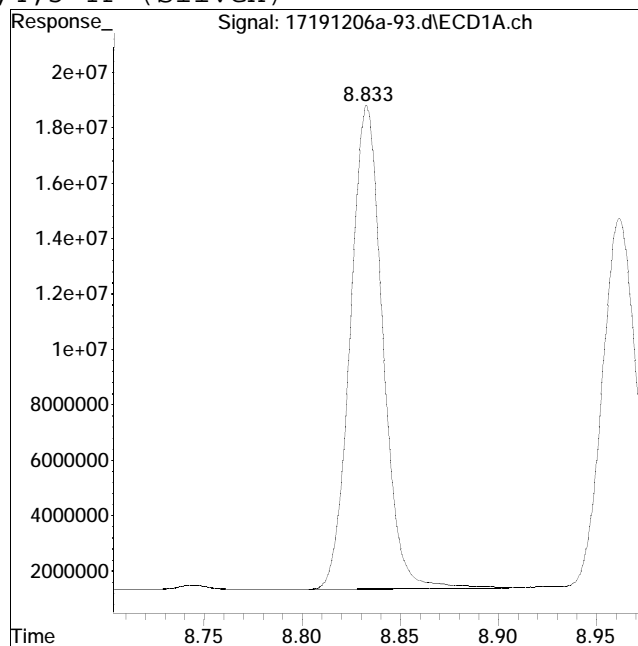
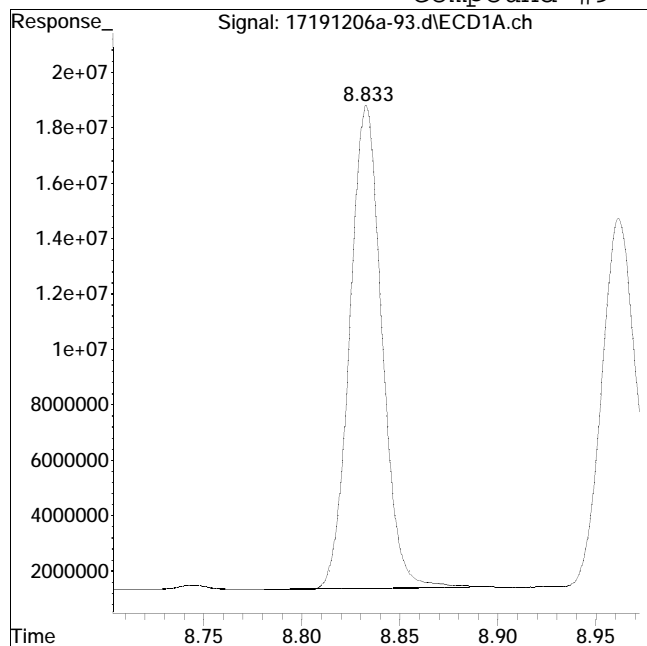
Manual Peak Response = 62894460 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-93.d Operator : PEST17:dgm
Date Inj'd : 12/7/2019 4:16 pm Instrument : Pest 17
Sample : wg1317631-10,42e,, herb ccQuant Date : 12/8/2019 12:13 pm

Compound #9: 2,4,5-TP (Silvex)



Original Peak Response = 198254243

Manual Peak Response = 200514477 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\Pest17\191206A\
 Data File : 17191206a-104.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Dec 2019 7:38 pm
 Operator : PEST17:dgm
 Sample : wg1317631-11,42e,, herb cc 9495 (Sig #1); wg1317631-10,42e,, herb
 cc 9495 (Sig #2)
 Misc : wg1317631,wg1315317,ical16100
 ALS Vial : 104 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 08 12:16:49 2019
 Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Fri Dec 06 11:41:45 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 i	4,4'-DBOB	0.250	0.250	0.0	57	0.00
2 t	Dalapon	0.182	0.278	-52.7#	87	-0.02
3 s	DCAA (surrogate)	0.188	0.224	-19.1#	64	0.00
4 t	Dicamba	0.188	0.223	-18.6#	69	0.00
5 t	MCP	18.800	23.406	-24.5#	71	0.00
6 t	MCPA	18.600	25.977	-39.7#	78	0.00
7 t	Dichloroprop	0.188	0.220	-17.0#	72	0.00
8 t	2,4-D	0.188	0.233	-23.9#	72	0.00
9 t	2,4,5-TP (Silvex)	0.190	0.205	-7.9	64	0.00
10 t	2,4,5-T	0.190	0.197	-3.7	59	0.00
11 t	2,4-DB	0.192	0.166	13.5	50	0.00
12 t	Dinoseb	0.190	0.311	-63.7#	109	0.00

Signal #2

1 i	4,4'-DBOB	0.250	0.250	0.0	73	0.00
2 t	Dalapon	0.182	0.178	2.2	76	-0.01
3 s	DCAA (surrogate)	0.188	0.168	10.6	64	0.00
4 t	Dicamba	0.188	0.173	8.0	70	0.00
5 t	MCP	18.800	17.090	9.1	68	0.00
6 t	MCPA	18.600	18.778	-1.0	72	0.00
7 t	Dichloroprop	0.188	0.185	1.6	78	0.00
8 t	2,4-D	0.188	0.178	5.3	73	0.00
9 t	2,4,5-TP (Silvex)	0.190	0.194	-2.1	79	0.00
10 t	2,4,5-T	0.190	0.190	0.0	79	0.00
11 t	2,4-DB	0.192	0.165	14.1	66	0.00
12 t	Dinoseb	0.190	0.316	-66.3#	131	0.00

Evaluate Continuing Calibration Report - Not Found

Evaluate Continuing Calibration Report

Data Path : I:\Pest17\191206A\
Data File : 17191206a-104.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Dec 2019 7:38 pm
Operator : PEST17:dgm
Sample : wg1317631-11,42e,, herb cc 9495 (Sig #1); wg1317631-10,42e,, herb
cc 9495 (Sig #2)
Misc : wg1317631,wg1315317,ical16100
ALS Vial : 104 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 08 12:16:49 2019
Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Fri Dec 06 11:41:45 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
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Signal #2

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191206A\
 Data File : 17191206a-104.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Dec 2019 7:38 pm
 Operator : PEST17:dgm
 Sample : wg1317631-11,42e,, herb cc 9495 (Sig #1); wg1317631-10,42e,, herb
 cc 9495 (Sig #2)
 Misc : wg1317631,wg1315317,ical16100
 ALS Vial : 104 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 08 12:16:49 2019
 Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Fri Dec 06 11:41:45 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Internal Standards							
1) i	4,4'-DBOB	8.560	8.602	382.5E6	479.1E6	0.250	0.250
System Monitoring Compounds							
3) s	DCAA (surrog	7.014	7.535	55773595	64683643	0.224	0.168
	Spiked Amount	0.500	Range	30 - 150	Recovery =	44.80%	33.60%
Target Compounds							
2) t	Dalapon	2.005f	2.093	59736529	53525438	0.278M4	0.178 D
4) t	Dicamba	7.199	7.717	168.5E6	187.5E6	0.223	0.173
5) t	MCPD	7.402	7.827	23382544	25874602	23.406	17.090
6) t	MCPA	7.548	8.054	42946671	43823186	25.977M4	18.778
7) t	Dichloroprop	7.904	8.371	52847996	60815846	0.220	0.185
8) t	2,4-D	8.114	8.643	65987367	75784161	0.233	0.178
9) t	2,4,5-TP (Si	8.832	9.300	221.6E6	266.5E6	0.205	0.194
10) t	2,4,5-T	9.049	9.587	224.4E6	261.7E6	0.197	0.190
11) t	2,4-DB	9.457	9.948	31027287	40481584	0.166M4	0.165
12) t	Dinoseb	10.203	10.172	130.5E6	153.7E6	0.311M4	0.316M4

SemiQuant Compounds - Not Calibrated on this Instrument

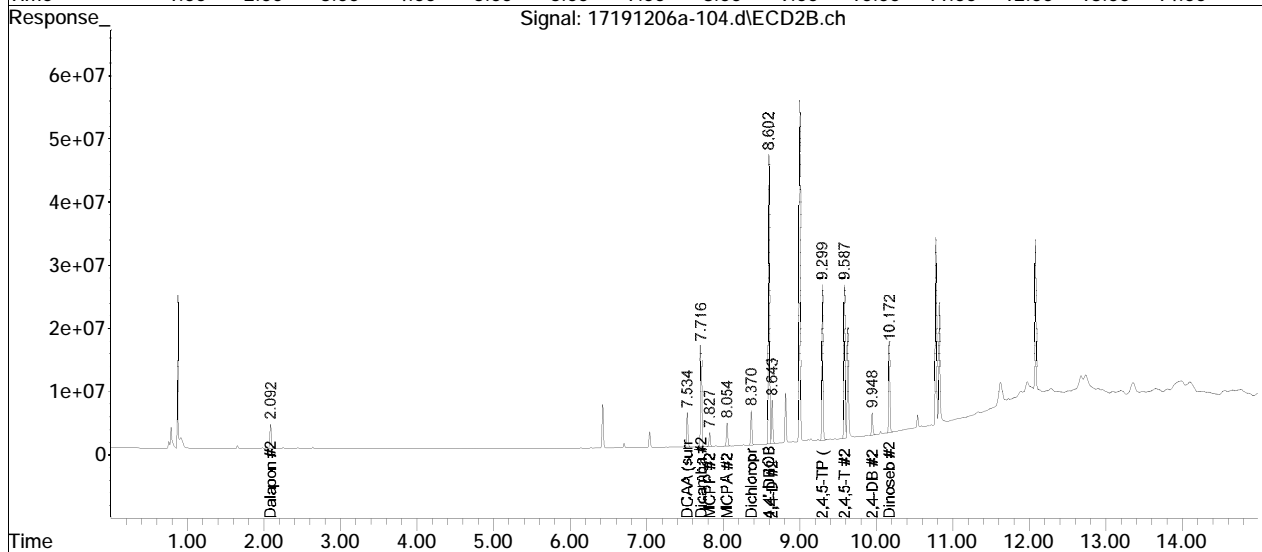
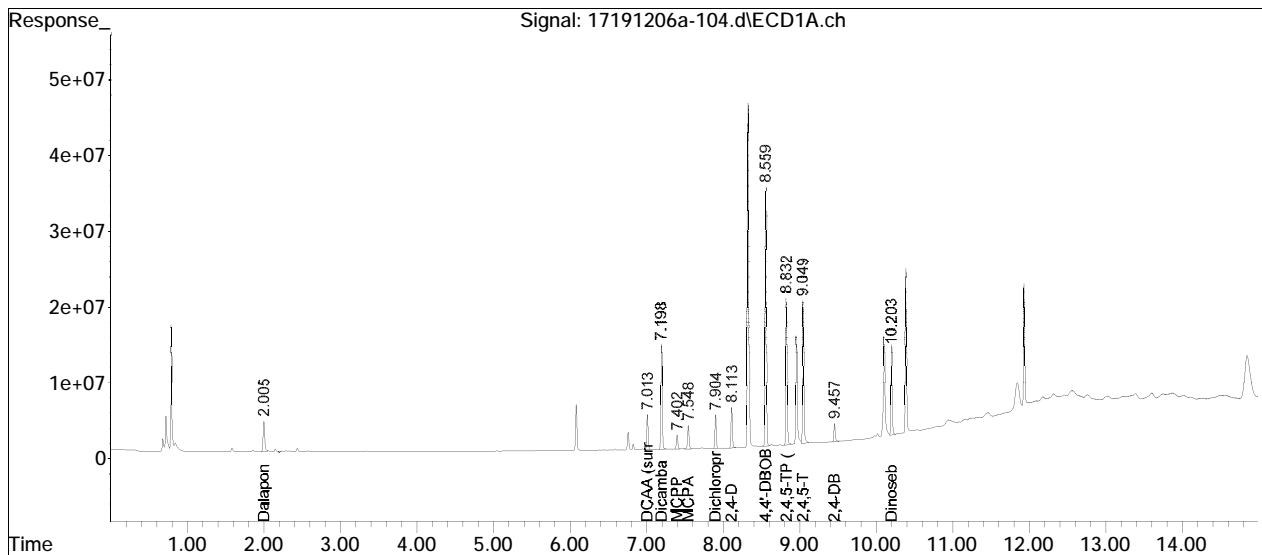
 (f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coeluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest17\191206A\
Data File : 17191206a-104.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Dec 2019 7:38 pm
Operator : PEST17:dgm
Sample : wg1317631-11,42e,, herb cc 9495 (Sig #1); wg1317631-10,42e,, herb
Misc : wg1317631,wg1315317,ical16100
ALS Vial : 104 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 08 12:16:49 2019
Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Fri Dec 06 11:41:45 2019
Response via : Initial Calibration
Integrator: ChemStation

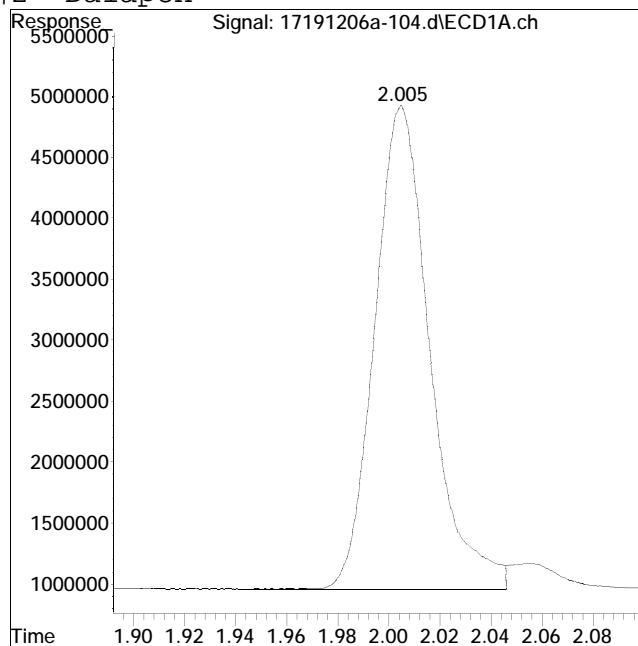
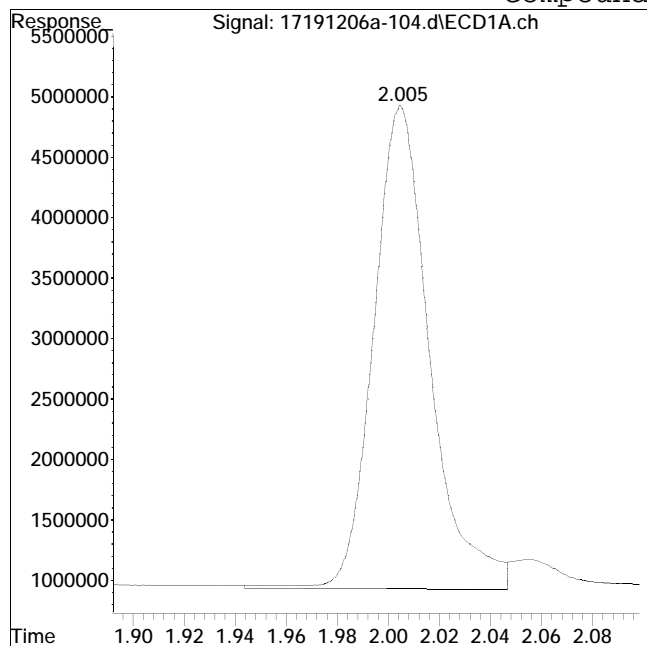
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-104.d Operator : PEST17:dgm
Date Inj'd : 12/7/2019 7:38 pm Instrument : Pest 17
Sample : wg1317631-11,42e,, herb ccQuant Date : 12/8/2019 12:15 pm

Compound #2: Dalapon



Original Peak Response = 61205110

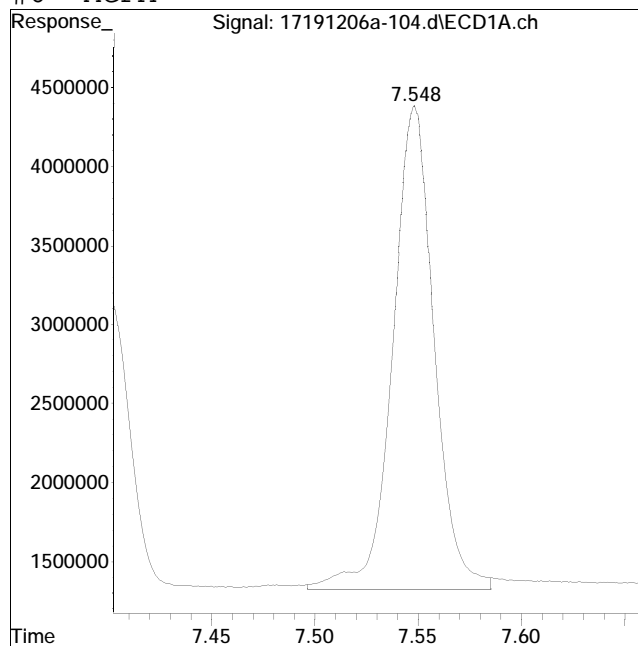
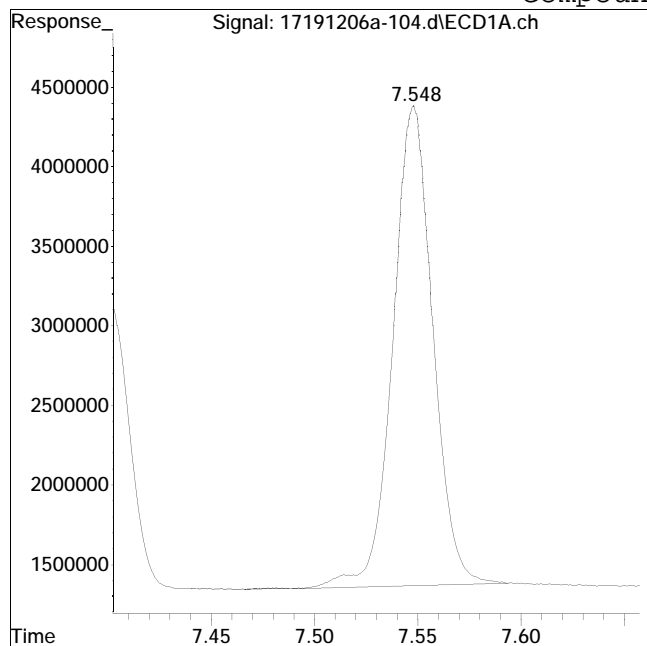
Manual Peak Response = 59736529 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-104.d Operator : PEST17:dgm
Date Inj'd : 12/7/2019 7:38 pm Instrument : Pest 17
Sample : wg1317631-11,42e,, herb ccQuant Date : 12/8/2019 12:15 pm

Compound #6: MCPA



Original Peak Response = 40547355

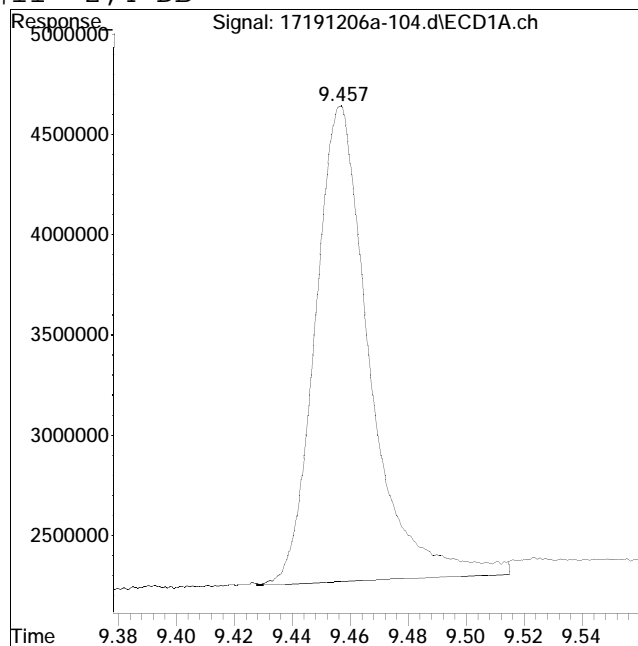
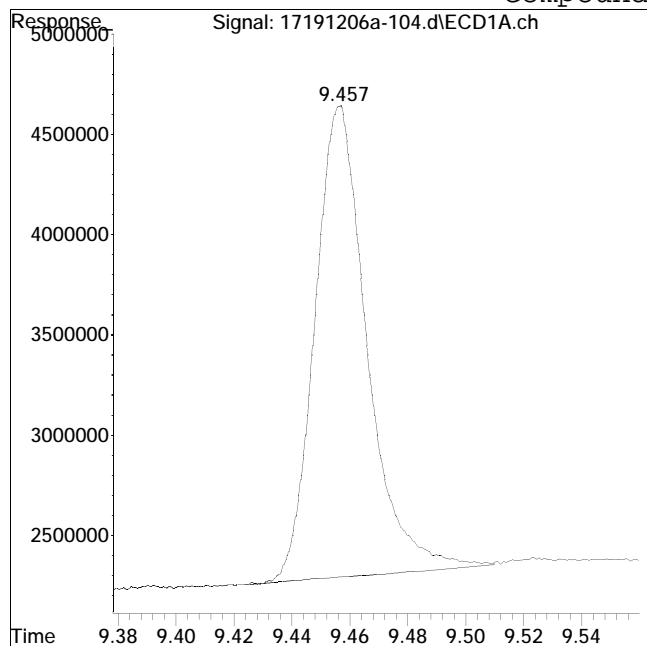
Manual Peak Response = 42946671 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-104.d Operator : PEST17:dgm
Date Inj'd : 12/7/2019 7:38 pm Instrument : Pest 17
Sample : wg1317631-11,42e,, herb ccQuant Date : 12/8/2019 12:15 pm

Compound #11: 2,4-DB



Original Peak Response = 29456954

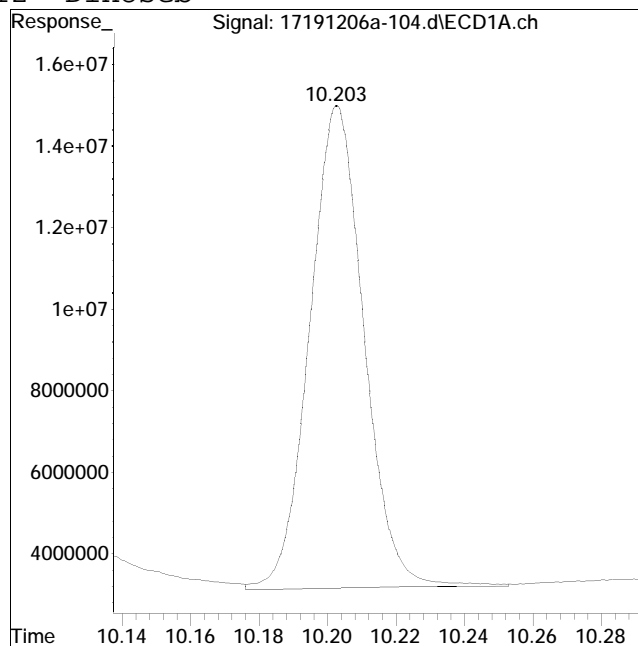
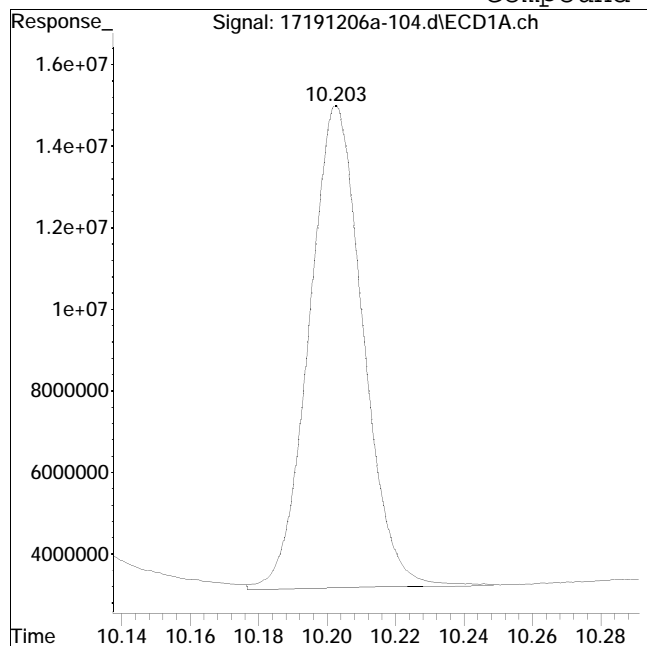
Manual Peak Response = 31027287 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-104.d Operator : PEST17:dgm
Date Inj'd : 12/7/2019 7:38 pm Instrument : Pest 17
Sample : wg1317631-11,42e,, herb ccQuant Date : 12/8/2019 12:15 pm

Compound #12: Dinoseb



Original Peak Response = 129505798

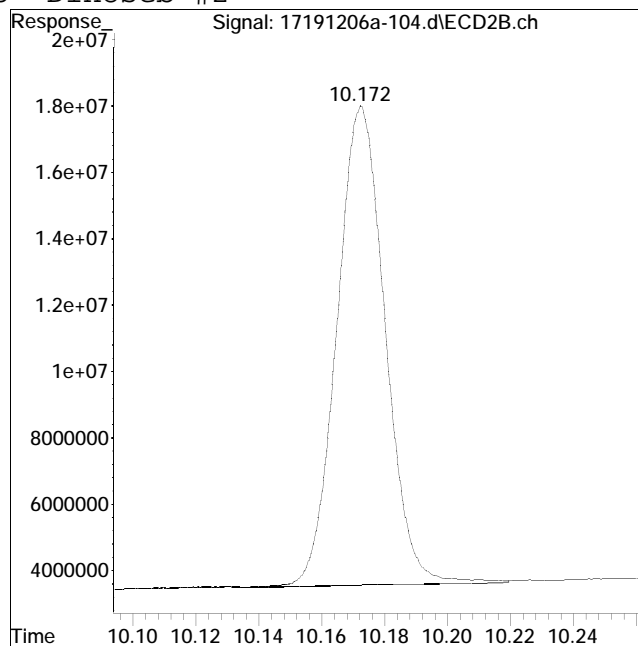
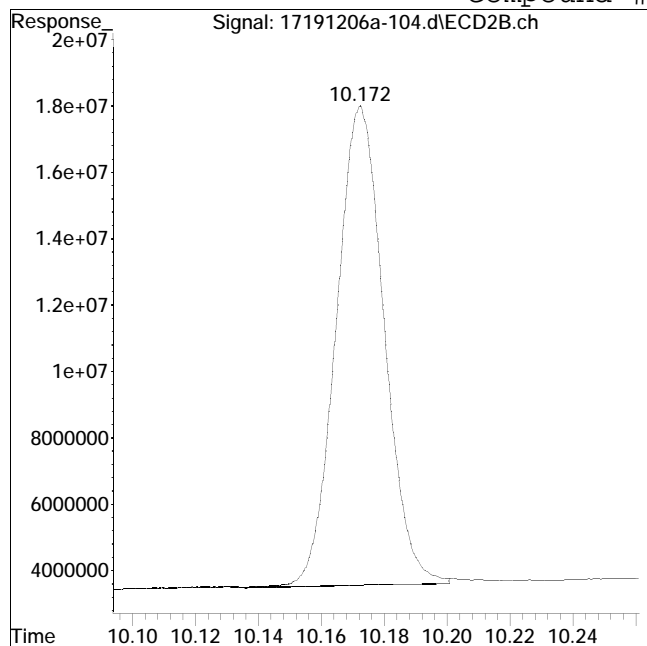
Manual Peak Response = 130493613 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-104.d Operator : PEST17:dgm
Date Inj'd : 12/7/2019 7:38 pm Instrument : Pest 17
Sample : wg1317631-11,42e,, herb ccQuant Date : 12/8/2019 12:15 pm

Compound #25: Dinoseb #2



Original Peak Response = 152610029

Manual Peak Response = 153679453 M4

M4 = Poor automated baseline construction.

Sample Raw Data

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191206A\
 Data File : 17191206a-94.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Dec 2019 4:35 pm
 Operator : PEST17:jmc
 Sample : 11957339-13,42e,, 8151
 Misc : wgl1317631,WG1314990,ical16100
 ALS Vial : 94 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 09 17:37:41 2019
 Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Fri Dec 06 11:41:45 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191206A\17191206a-93.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.561	8.602	538.8E6	673.7E6	0.250	0.250
Standard Area 1 : #1 = 336318866					Recovery = 160.21%	
Standard Area 1 : #2 = 423157847					Recovery = 159.22%	
System Monitoring Compounds						
3) s DCAA (surrog	7.015	7.534	130.4E6	147.8E6	0.373M4	0.274
Spiked Amount	0.500	Range 30 - 150		Recovery = 74.60%		54.80%
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t MCPP	0.000	0.000	0	0	N.D.	N.D. d
6) t MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D.	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D.	N.D. d
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

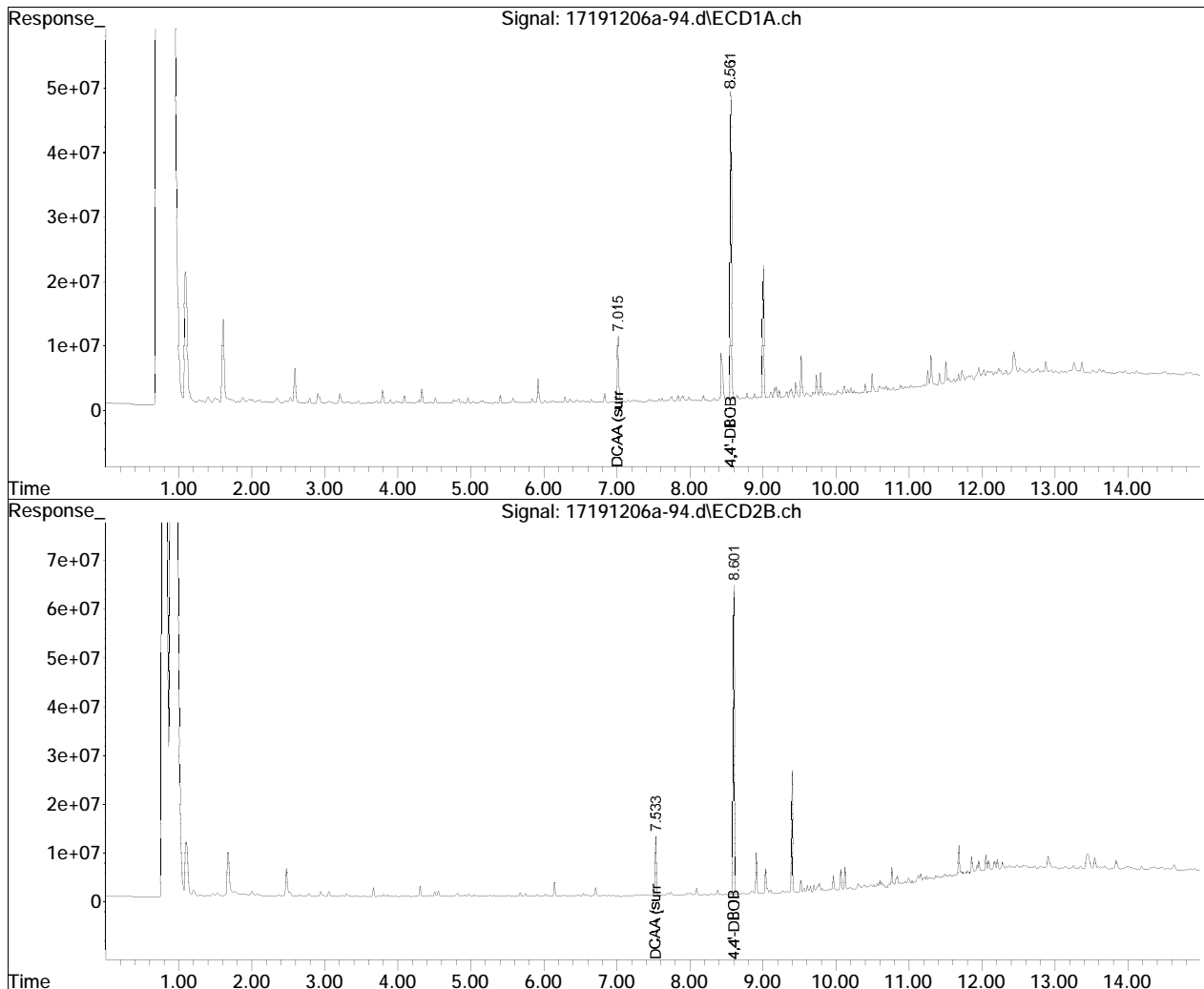
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coeluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed a-93.d••d)

Data Path : I:\Pest17\191206A\
Data File : 17191206a-94.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Dec 2019 4:35 pm
Operator : PEST17:jmc
Sample : 11957339-13,42e,, 8151
Misc : wg1317631,WG1314990,ical16100
ALS Vial : 94 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 09 17:37:41 2019
Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Fri Dec 06 11:41:45 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

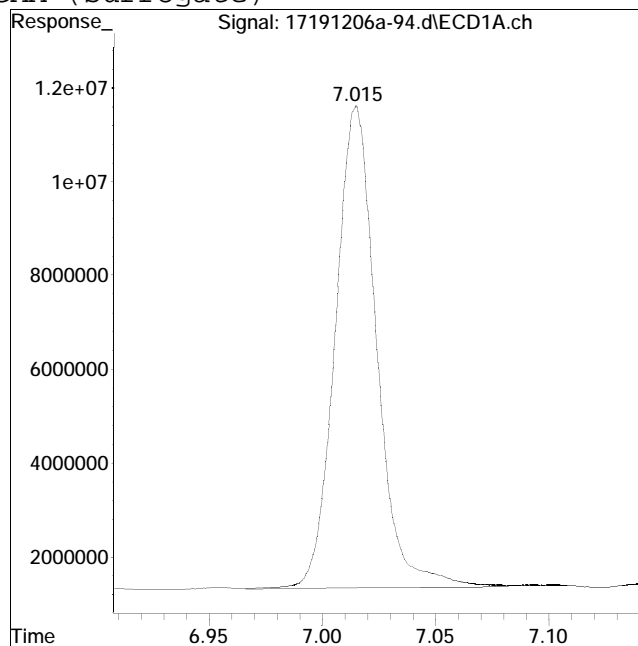
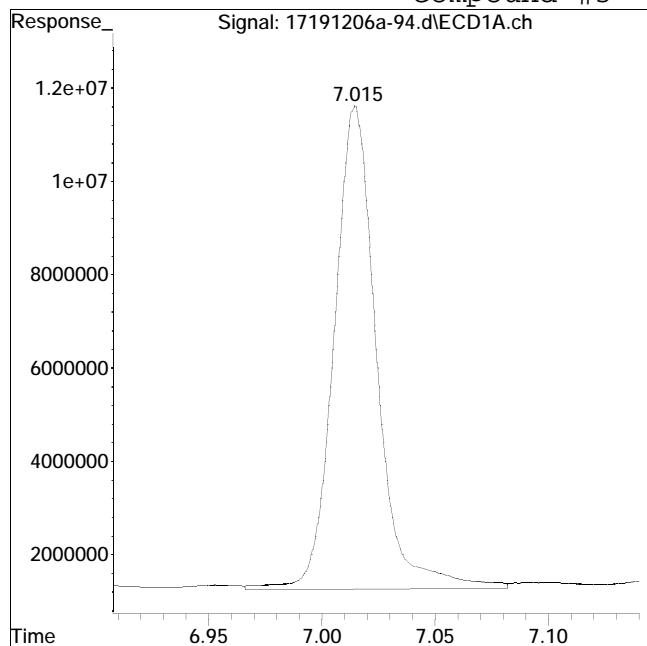


Manual Integration Report

Data Path : I:\Pest17\191206A\
Data File : 17191206a-94.d
Date Inj'd : 12/7/2019 4:35 pm
Sample : 11957339-13,42e,, 8151

QMethod : Herb17_09_03_ICAL16100.m
Operator : PEST17:jmc
Instrument : Pest 17
Quant Date : 12/9/2019 5:36 pm

Compound #3: DCAA (surrogate)



Original Peak Response = 136130003

Manual Peak Response = 130439259 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191206A\
 Data File : 17191206a-95.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Dec 2019 4:53 pm
 Operator : PEST17:jmc
 Sample : 11957339-14,42e,, 8151 rv
 Misc : wgl1317631,wgl1316102,ical16100
 ALS Vial : 95 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 09 17:44:45 2019
 Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Fri Dec 06 11:41:45 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191206A\17191206a-93.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.561	8.601	342.5E6	366.3E6	0.250M4	0.250M4
Standard Area 1 : #1 = 336318866					Recovery	= 101.83%
Standard Area 1 : #2 = 423157847					Recovery	= 86.57%
System Monitoring Compounds						
3) s DCAA (surrog	7.014	7.533	97657264	130.6E6	0.439M3	0.445M4
Spiked Amount		0.500	Range 30 - 150	Recovery	= 87.80%	89.00%
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D.	N.D.
4) t Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t MCPPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t Dichloroprop	0.000	0.000	0	0	N.D.	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

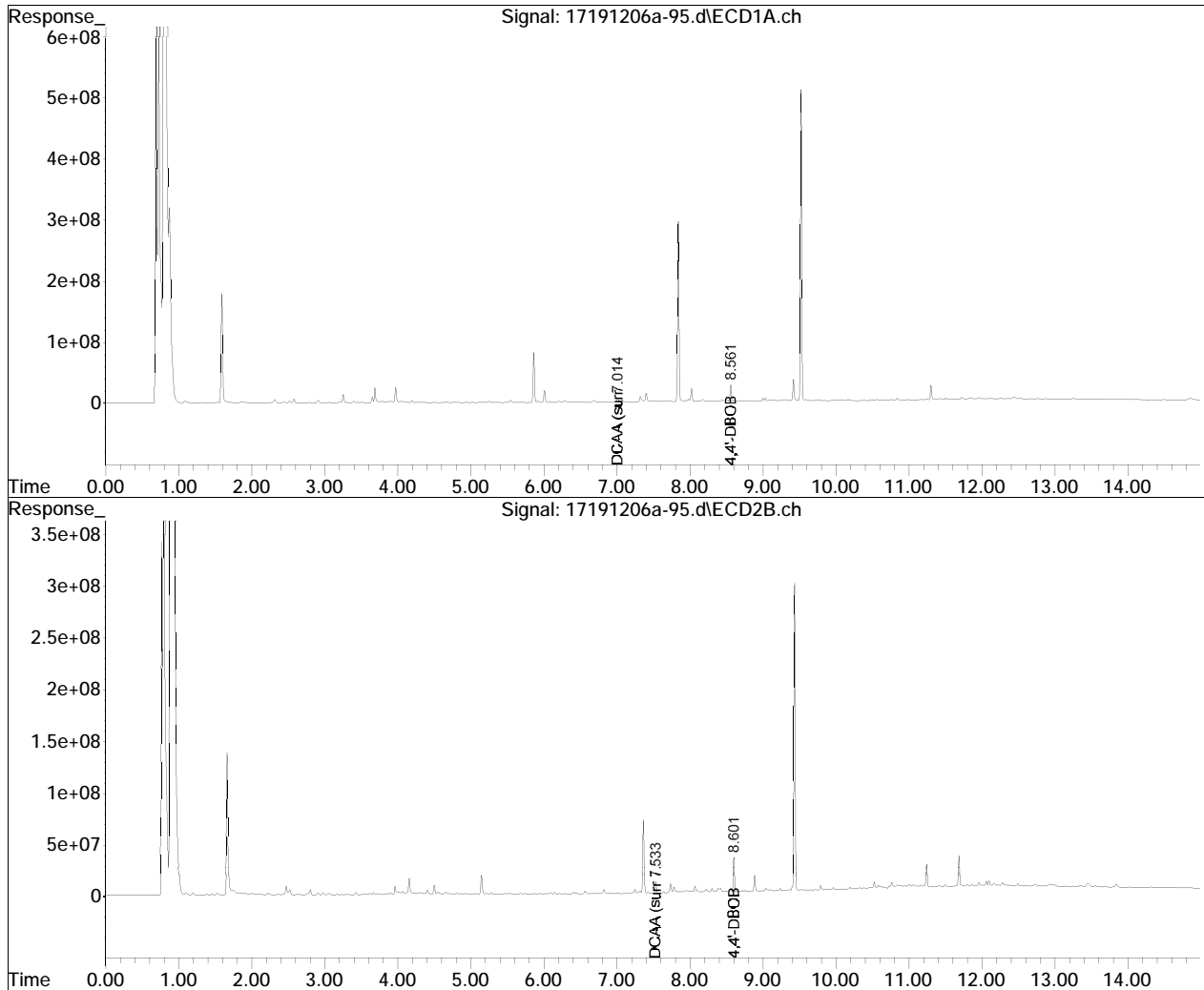
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coeluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed a-93.d••d)

Data Path : I:\Pest17\191206A\
Data File : 17191206a-95.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Dec 2019 4:53 pm
Operator : PEST17:jmc
Sample : 11957339-14,42e,, 8151 rv
Misc : wg1317631,wg1316102,ical16100
ALS Vial : 95 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 09 17:44:45 2019
Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Fri Dec 06 11:41:45 2019
Response via : Initial Calibration
Integrator: ChemStation

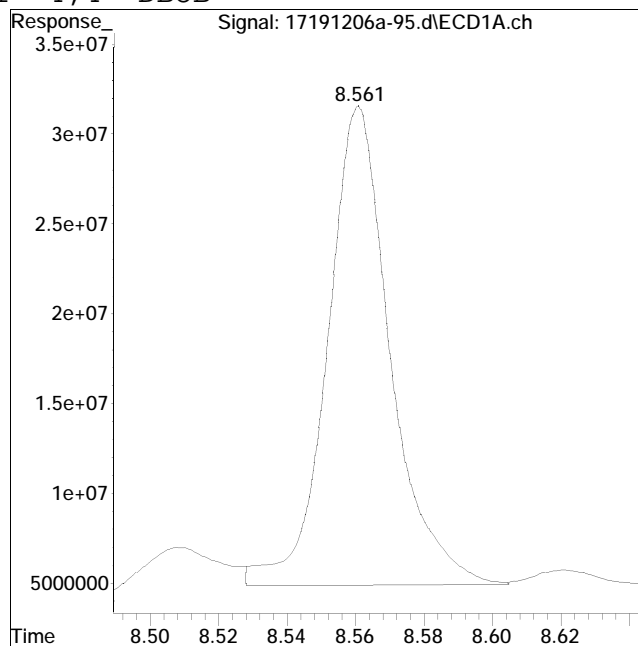
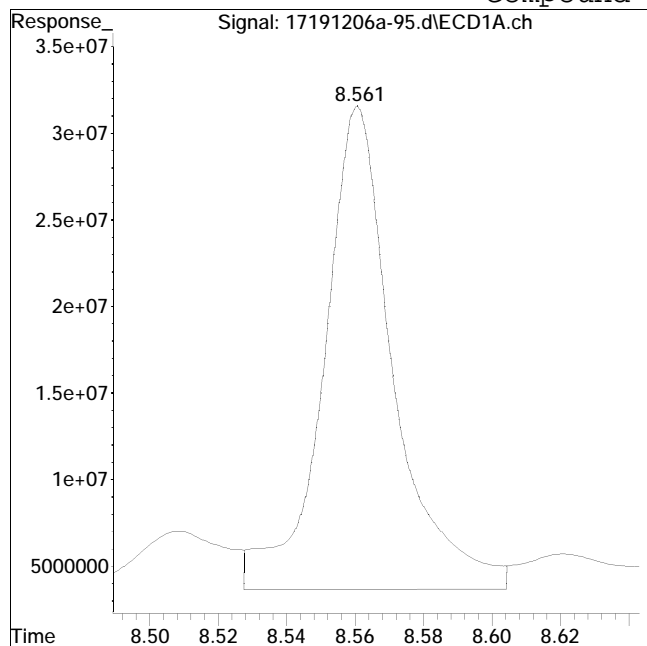
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-95.d Operator : PEST17:jmc
Date Inj'd : 12/7/2019 4:53 pm Instrument : Pest 17
Sample : 11957339-14,42e,, 8151 rv Quant Date : 12/9/2019 5:42 pm

Compound #1: 4,4'-DBOB



Original Peak Response = 398127002

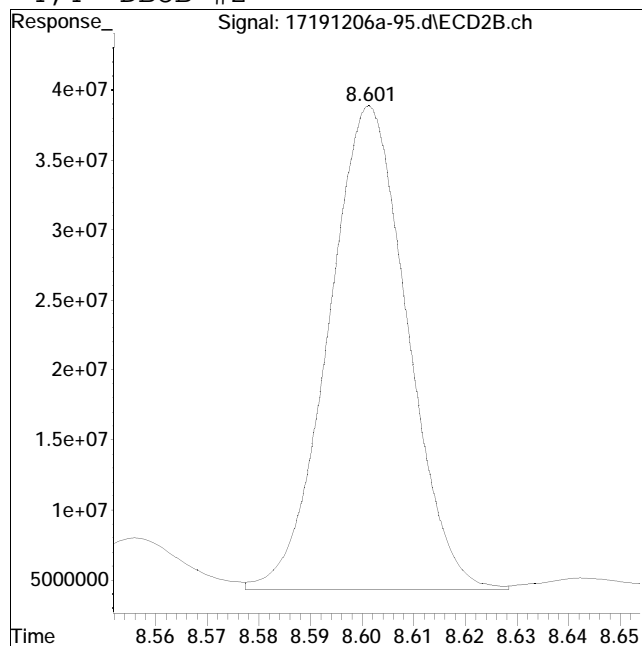
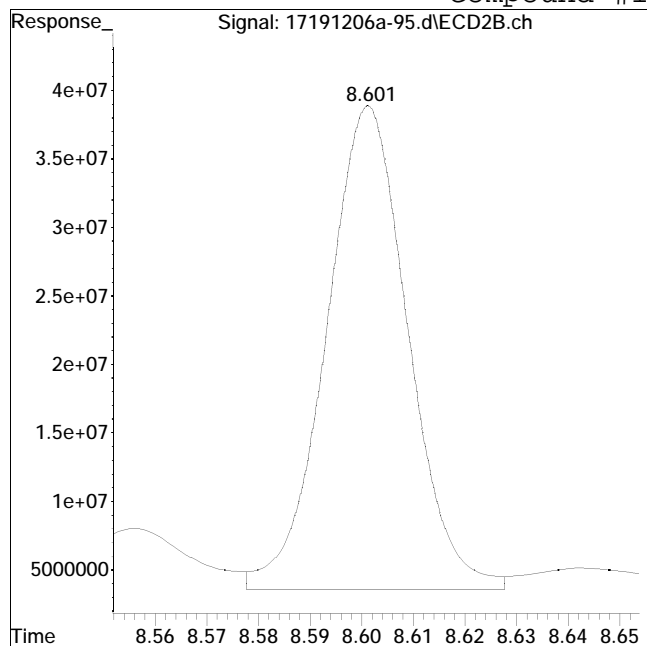
Manual Peak Response = 342475706 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-95.d Operator : PEST17:jmc
Date Inj'd : 12/7/2019 4:53 pm Instrument : Pest 17
Sample : 11957339-14,42e,, 8151 rv Quant Date : 12/9/2019 5:42 pm

Compound #14: 4,4'-DBOB #2



Original Peak Response = 388343669

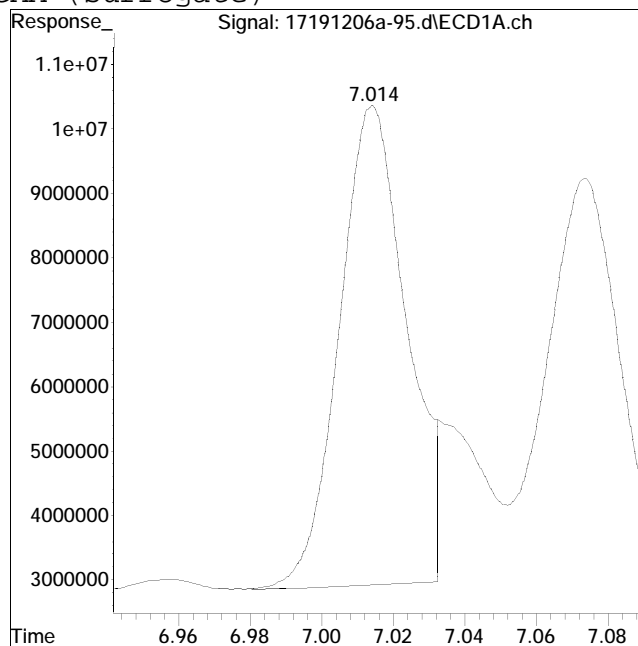
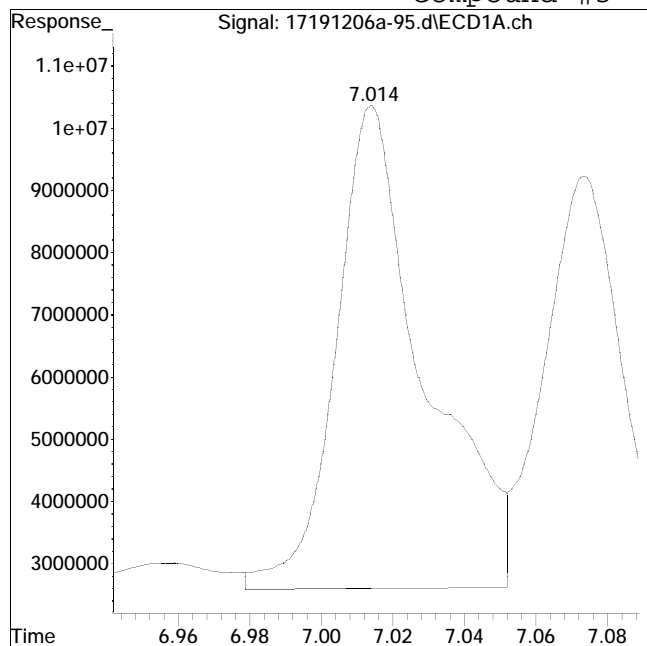
Manual Peak Response = 366332843 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-95.d Operator : PEST17:jmc
Date Inj'd : 12/7/2019 4:53 pm Instrument : Pest 17
Sample : 11957339-14,42e,, 8151 rv Quant Date : 12/9/2019 5:42 pm

Compound #3: DCAA (surrogate)



Original Peak Response = 133760396

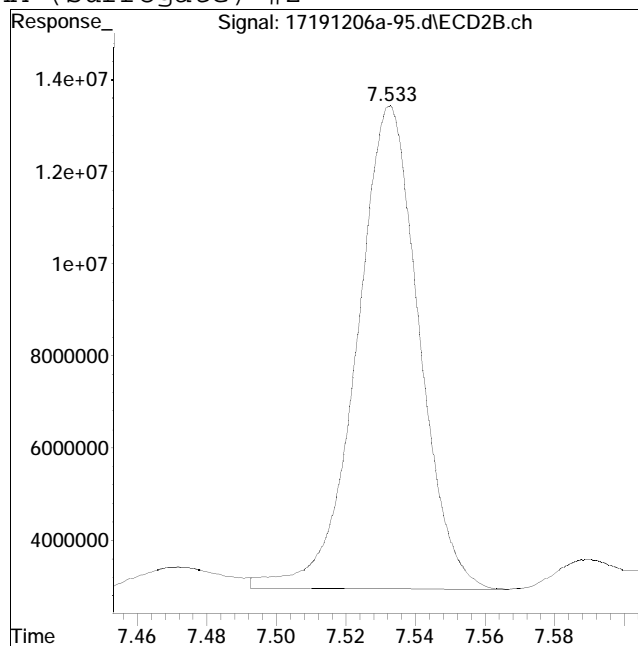
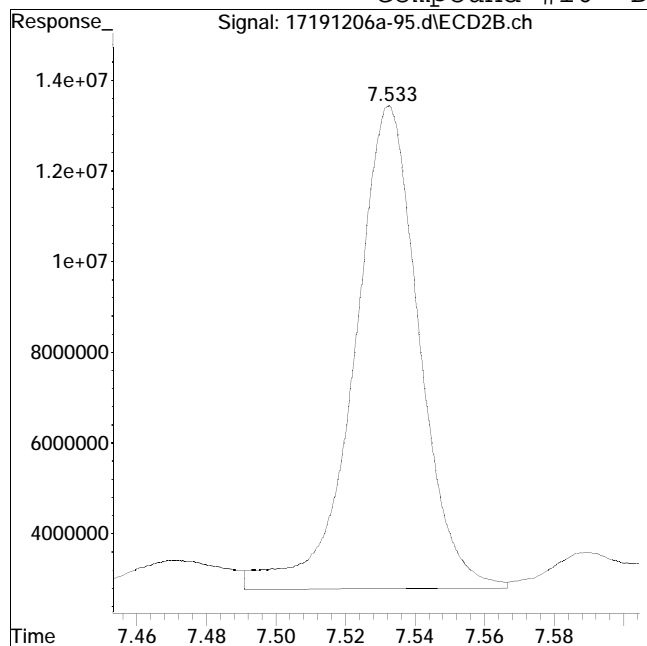
Manual Peak Response = 97657264 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-95.d Operator : PEST17:jmc
Date Inj'd : 12/7/2019 4:53 pm Instrument : Pest 17
Sample : 11957339-14,42e,, 8151 rv Quant Date : 12/9/2019 5:42 pm

Compound #16: DCAA (surrogate) #2



Original Peak Response = 137997369

Manual Peak Response = 130596377 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191206A\
 Data File : 17191206a-96.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Dec 2019 5:11 pm
 Operator : PEST17:jmc
 Sample : 11957339-15,42e,, 8151 rv
 Misc : wgl1317631,wgl1316102,ical16100
 ALS Vial : 96 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 09 17:46:44 2019
 Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Fri Dec 06 11:41:45 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191206A\17191206a-93.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.560	8.601	369.9E6	380.7E6	0.250M4	0.250M4
Standard Area 1 : #1 = 336318866					Recovery	= 109.98%
Standard Area 1 : #2 = 423157847					Recovery	= 89.96%
System Monitoring Compounds						
3) s DCAA (surrog	7.013	7.533	104.3E6	165.5E6	0.434M3	0.543
Spiked Amount	0.500	Range 30 - 150	Recovery	=	86.80%	108.60%
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

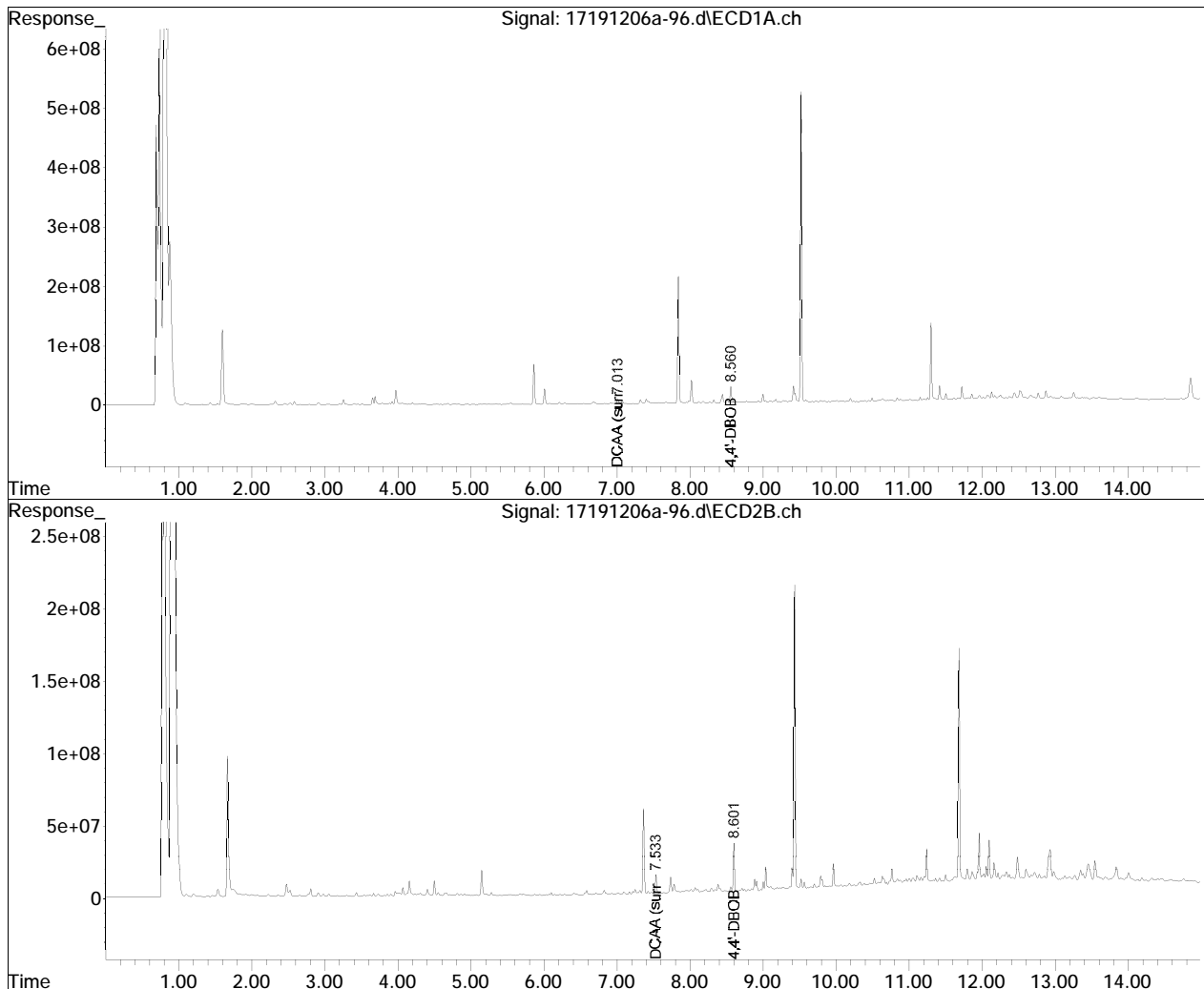
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed a-93.d••d)

Data Path : I:\Pest17\191206A\
Data File : 17191206a-96.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Dec 2019 5:11 pm
Operator : PEST17:jmc
Sample : 11957339-15,42e,, 8151 rv
Misc : wg1317631,wg1316102,ical16100
ALS Vial : 96 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 09 17:46:44 2019
Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Fri Dec 06 11:41:45 2019
Response via : Initial Calibration
Integrator: ChemStation

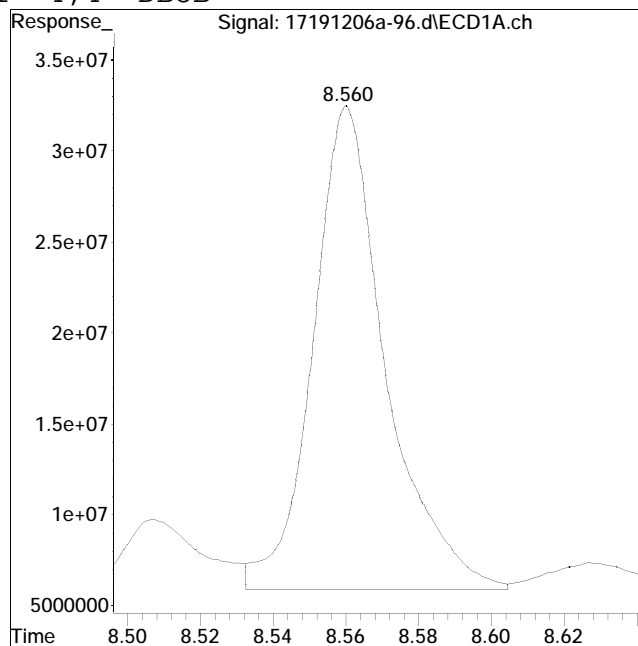
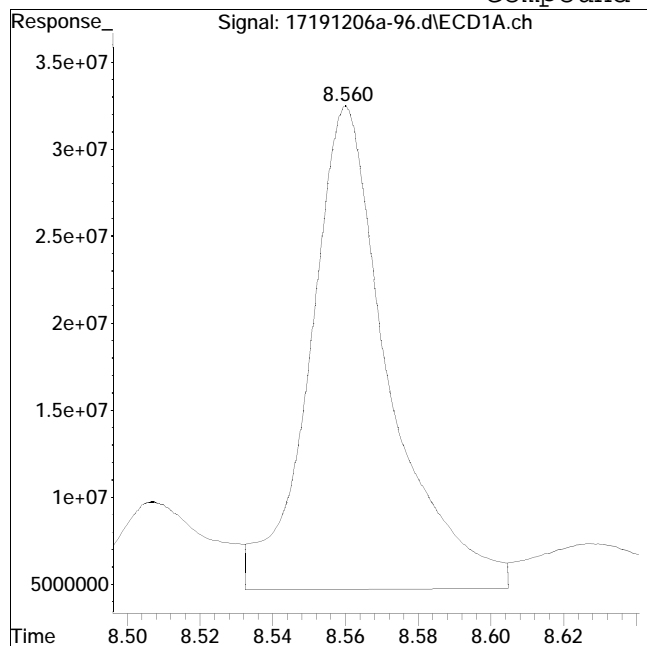
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-96.d Operator : PEST17:jmc
Date Inj'd : 12/7/2019 5:11 pm Instrument : Pest 17
Sample : 11957339-15,42e,, 8151 rv Quant Date : 12/9/2019 5:45 pm

Compound #1: 4,4'-DBOB



Original Peak Response = 420695278

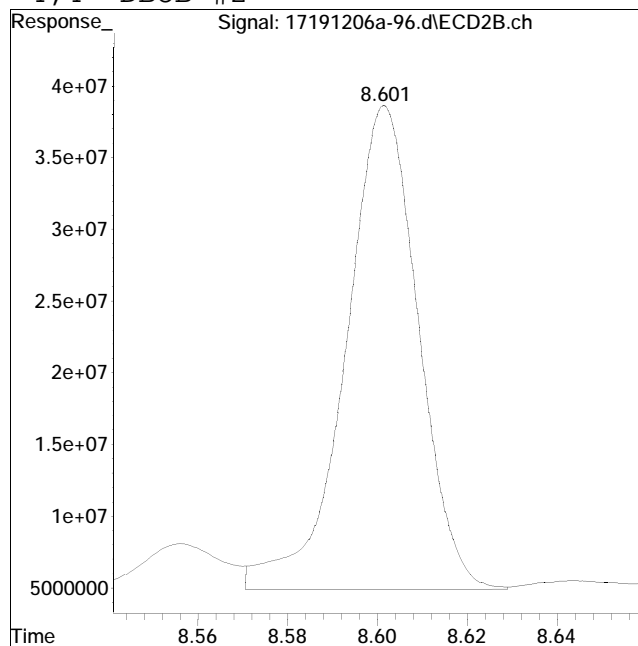
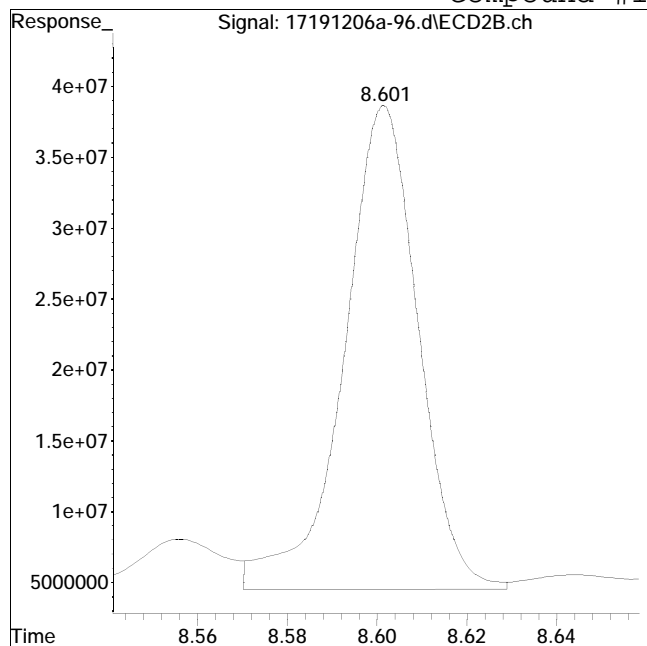
Manual Peak Response = 369896225 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-96.d Operator : PEST17:jmc
Date Inj'd : 12/7/2019 5:11 pm Instrument : Pest 17
Sample : 11957339-15,42e,, 8151 rv Quant Date : 12/9/2019 5:45 pm

Compound #14: 4,4'-DBOB #2



Original Peak Response = 394259797

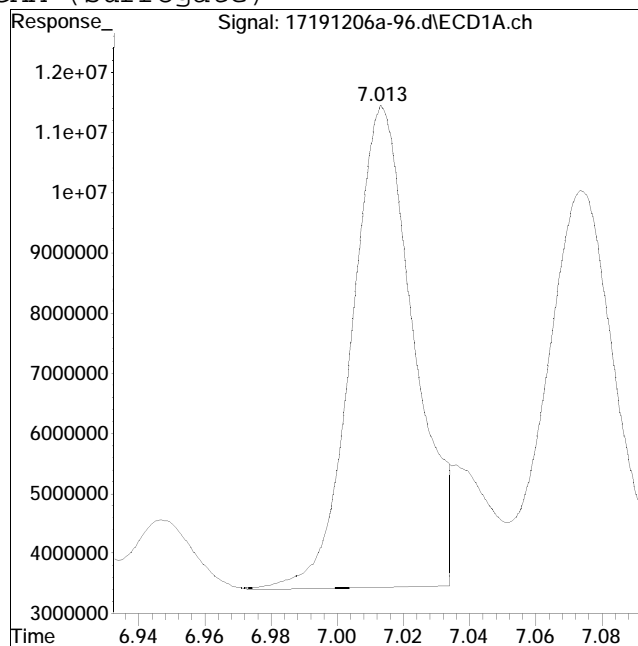
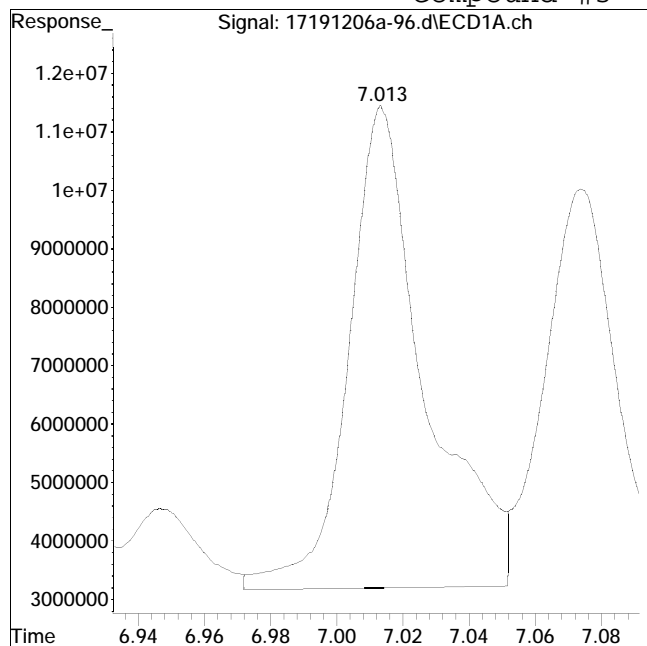
Manual Peak Response = 380654949 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-96.d Operator : PEST17:jmc
Date Inj'd : 12/7/2019 5:11 pm Instrument : Pest 17
Sample : 11957339-15,42e,, 8151 rv Quant Date : 12/9/2019 5:45 pm

Compound #3: DCAA (surrogate)



Original Peak Response = 132428691

Manual Peak Response = 104255394 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191206A\
 Data File : 17191206a-97.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Dec 2019 5:30 pm
 Operator : PEST17:jmc
 Sample : 11957339-16,42e,, 8151 rv
 Misc : wg1317631,wg1316102,ical16100
 ALS Vial : 97 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 09 17:48:12 2019
 Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Fri Dec 06 11:41:45 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191206A\17191206a-93.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l	
Internal Standards							
1) i 4,4'-DBOB	8.560	8.601	447.6E6	378.4E6	0.250M3	0.250M3	
Standard Area 1 : #1 = 336318866					Recovery	= 133.10%	
Standard Area 1 : #2 = 423157847					Recovery	= 89.42%	
System Monitoring Compounds							
3) s DCAA (surrog	7.013	7.533	124.8E6	143.8E6	0.429M4	0.474M4	
Spiked Amount					0.500 Range	30 - 150 Recovery = 85.80%	94.80%
Target Compounds							
2) t Dalapon	0.000	0.000	0	0	N.D.	N.D.	
4) t Dicamba	0.000	0.000	0	0	N.D. d	N.D. d	
5) t MCPPP	0.000	0.000	0	0	N.D. d	N.D. d	
6) t MCPA	0.000	0.000	0	0	N.D. d	N.D. d	
7) t Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d	
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d	
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d	
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d	
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d	

SemiQuant Compounds - Not Calibrated on this Instrument

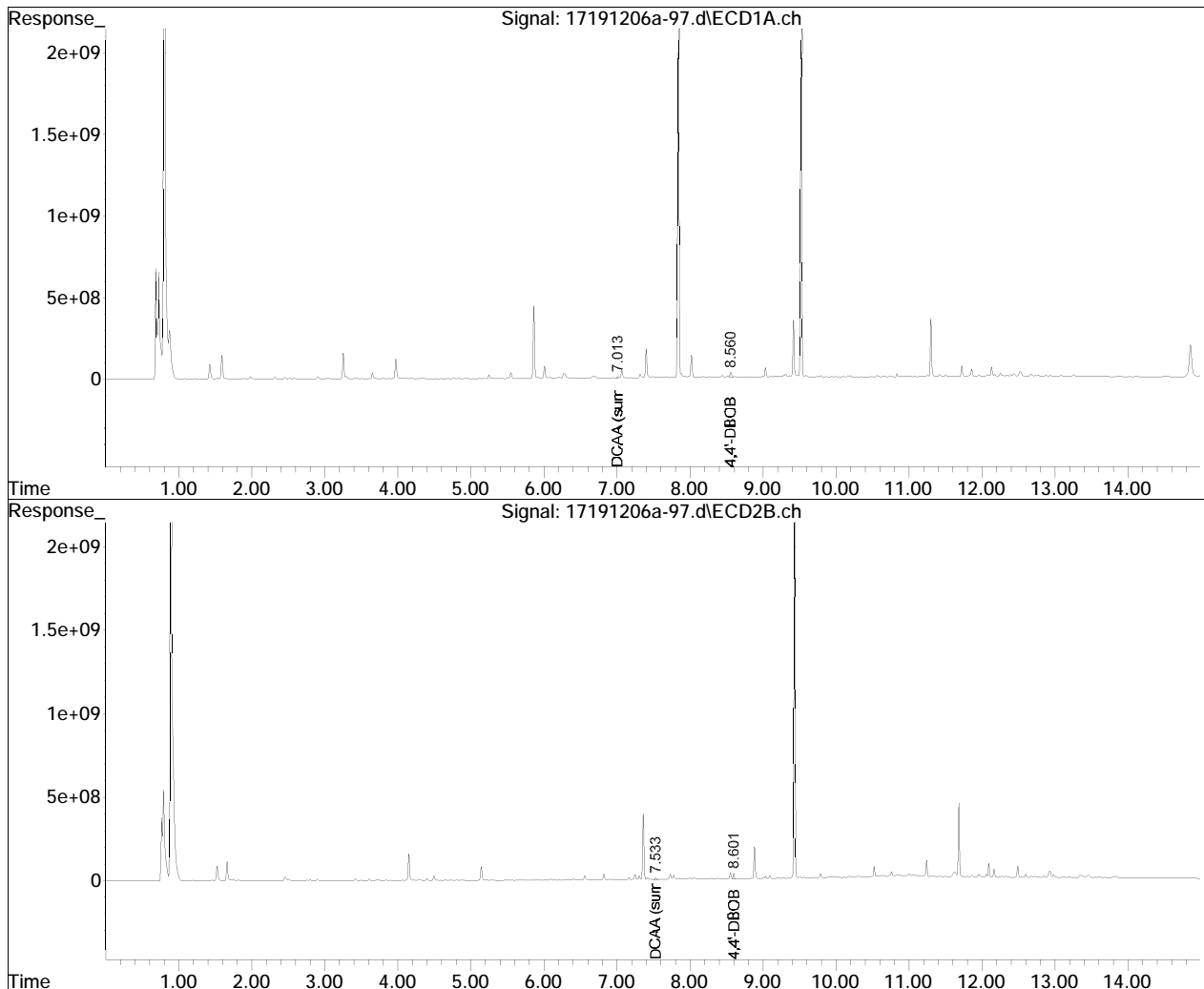
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed (a-93.d••d)

Data Path : I:\Pest17\191206A\
Data File : 17191206a-97.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Dec 2019 5:30 pm
Operator : PEST17:jmc
Sample : 11957339-16,42e,, 8151 rv
Misc : wg1317631,wg1316102,ical16100
ALS Vial : 97 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 09 17:48:12 2019
Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Fri Dec 06 11:41:45 2019
Response via : Initial Calibration
Integrator: ChemStation

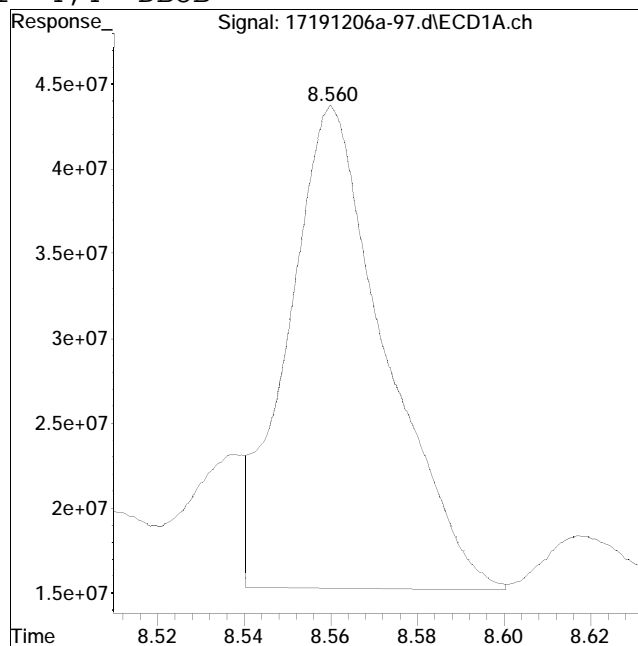
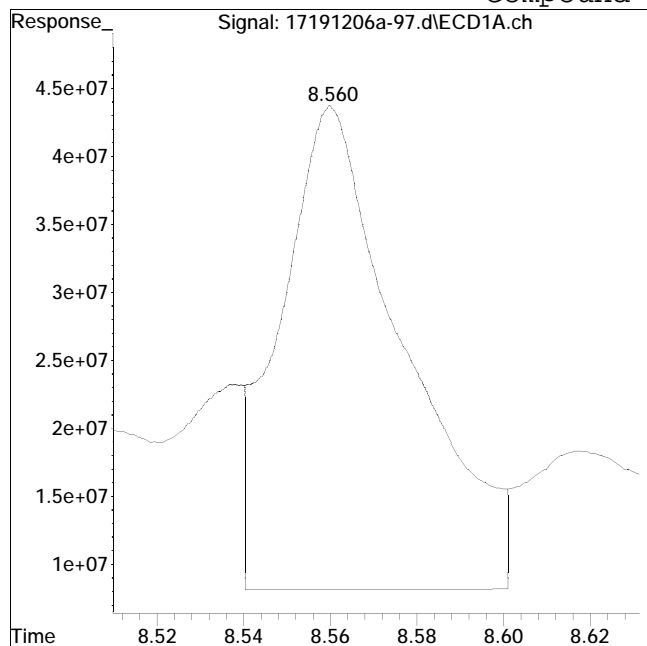
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-97.d Operator : PEST17:jmc
Date Inj'd : 12/7/2019 5:30 pm Instrument : Pest 17
Sample : 11957339-16,42e,, 8151 rv Quant Date : 12/9/2019 5:46 pm

Compound #1: 4,4'-DBOB



Original Peak Response = 709383392

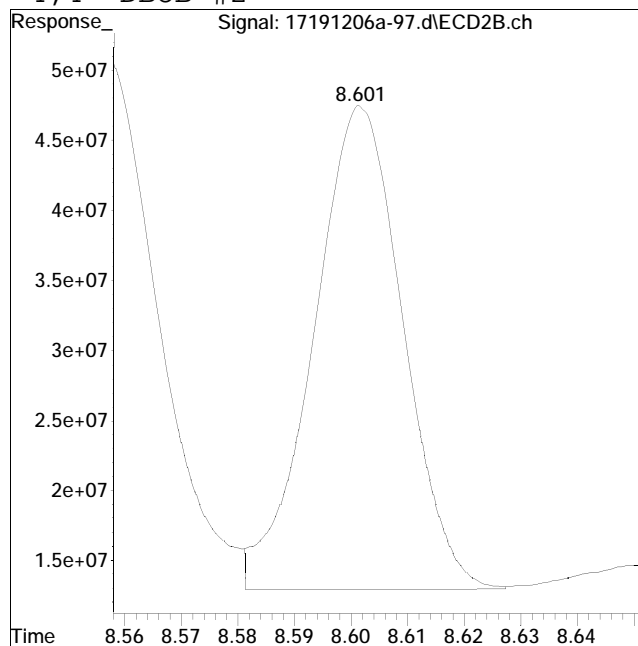
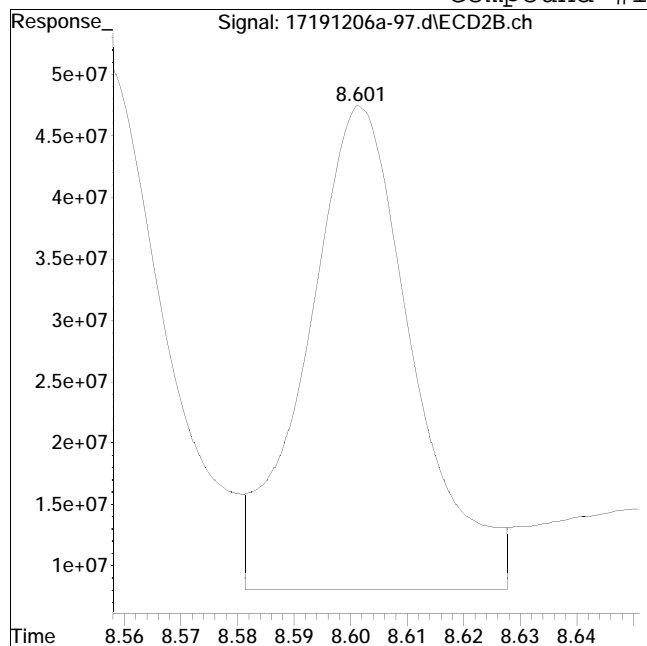
Manual Peak Response = 447630055 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-97.d Operator : PEST17:jmc
Date Inj'd : 12/7/2019 5:30 pm Instrument : Pest 17
Sample : 11957339-16,42e,, 8151 rv Quant Date : 12/9/2019 5:46 pm

Compound #14: 4,4'-DBOB #2



Original Peak Response = 514662920

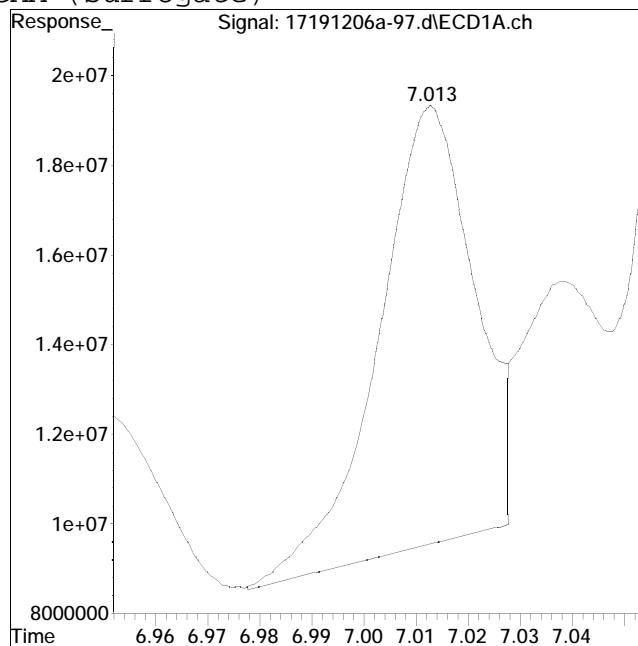
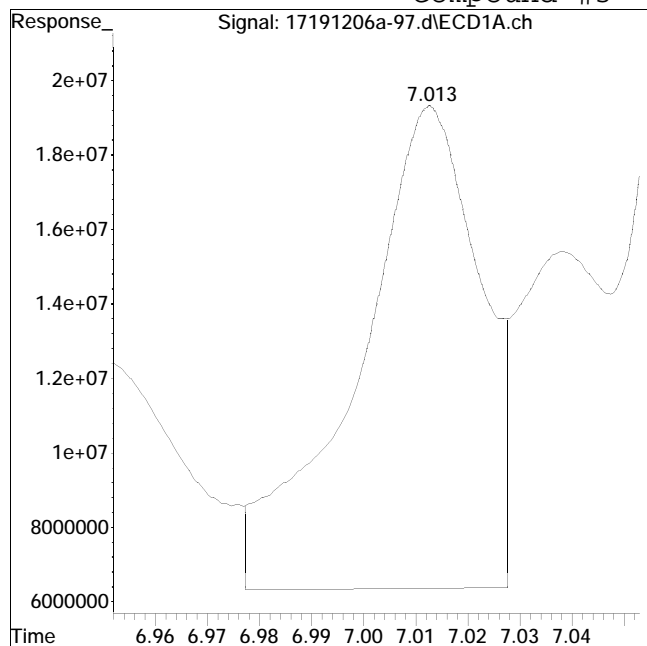
Manual Peak Response = 378393109 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-97.d Operator : PEST17:jmc
Date Inj'd : 12/7/2019 5:30 pm Instrument : Pest 17
Sample : 11957339-16,42e,, 8151 rv Quant Date : 12/9/2019 5:46 pm

Compound #3: DCAA (surrogate)



Original Peak Response = 210332456

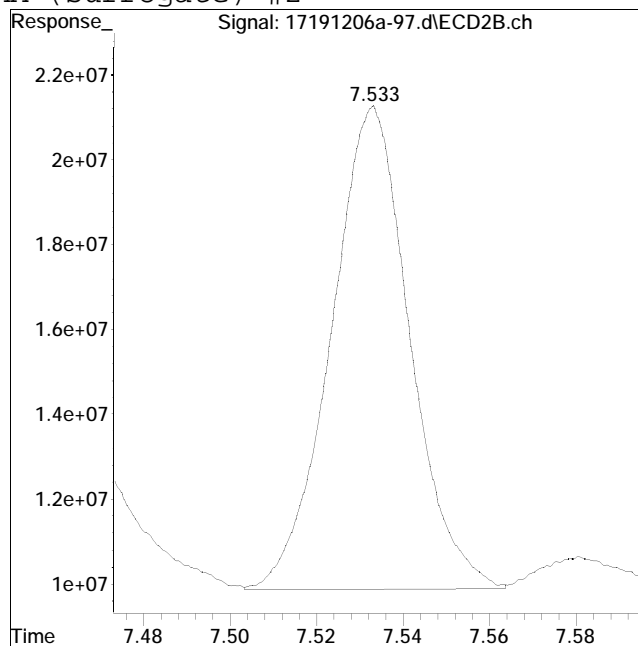
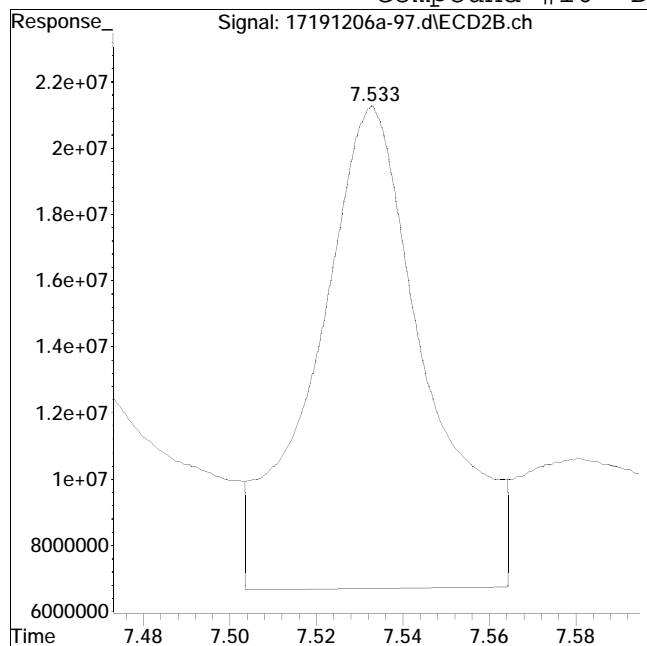
Manual Peak Response = 124788428 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-97.d Operator : PEST17:jmc
Date Inj'd : 12/7/2019 5:30 pm Instrument : Pest 17
Sample : 11957339-16,42e,, 8151 rv Quant Date : 12/9/2019 5:46 pm

Compound #16: DCAA (surrogate) #2



Original Peak Response = 259224328

Manual Peak Response = 143824496 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191206A\
 Data File : 17191206a-98.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Dec 2019 5:48 pm
 Operator : PEST17:jmc
 Sample : 11957339-18,42e,, 8151
 Misc : wgl1317631,wgl1315317,ical16100
 ALS Vial : 98 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 09 17:48:57 2019
 Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Fri Dec 06 11:41:45 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191206A\17191206a-93.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.561	8.602	290.0E6	364.1E6	0.250	0.250
Standard Area 1 : #1 = 336318866					Recovery =	86.22%
Standard Area 1 : #2 = 423157847					Recovery =	86.04%
System Monitoring Compounds						
3) s DCAA (surrog	7.014	7.534	91785233	111.2E6	0.487	0.381
Spiked Amount	0.500	Range 30 - 150		Recovery =	97.40%	76.20%
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D. d	N.D.
4) t Dicamba	0.000	0.000	0	0	N.D. d	N.D.
5) t MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t MCPA	0.000	0.000	0	0	N.D. d	N.D.
7) t Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D.	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

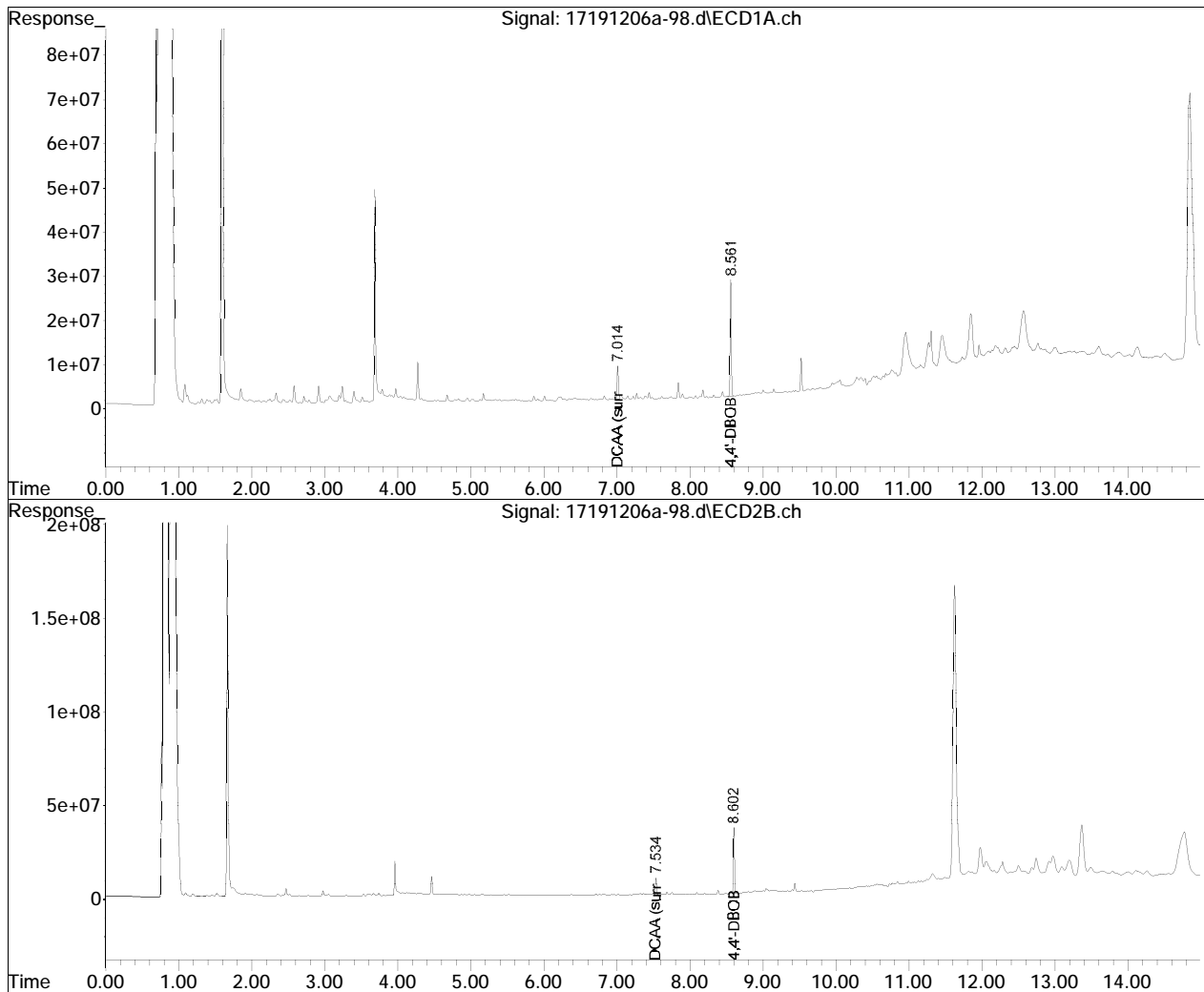
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed a-93.d••d)

Data Path : I:\Pest17\191206A\
Data File : 17191206a-98.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Dec 2019 5:48 pm
Operator : PEST17:jmc
Sample : 11957339-18,42e,, 8151
Misc : wg1317631,wg1315317,ical16100
ALS Vial : 98 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 09 17:48:57 2019
Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Fri Dec 06 11:41:45 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest17\191206A\	QMethod	: Herb17_09_03_ICAL16100.m
Data File	: 17191206a-98.d	Operator	: PEST17:jmc
Date Inj'd	: 12/7/2019 5:48 pm	Instrument	: Pest 17
Sample	: 11957339-18,42e,, 8151	Quant Date	: 12/9/2019 5:48 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191206A\
 Data File : 17191206a-99.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Dec 2019 6:07 pm
 Operator : PEST17:jmc
 Sample : 11957339-20,42e,, 8151
 Misc : wgl1317631,wgl1316102,ical16100
 ALS Vial : 99 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 09 17:49:51 2019
 Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Fri Dec 06 11:41:45 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191206A\17191206a-93.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.560	8.602	349.5E6	389.0E6	0.250	0.250
Standard Area 1 : #1 = 336318866					Recovery =	103.92%
Standard Area 1 : #2 = 423157847					Recovery =	91.93%
System Monitoring Compounds						
3) s DCAA (surrog	7.014	7.534	109.4E6	137.2E6	0.482	0.440
Spiked Amount	0.500	Range 30 - 150			Recovery =	96.40%
88.00%						
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D.	N.D.
4) t Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D.	N.D. d
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

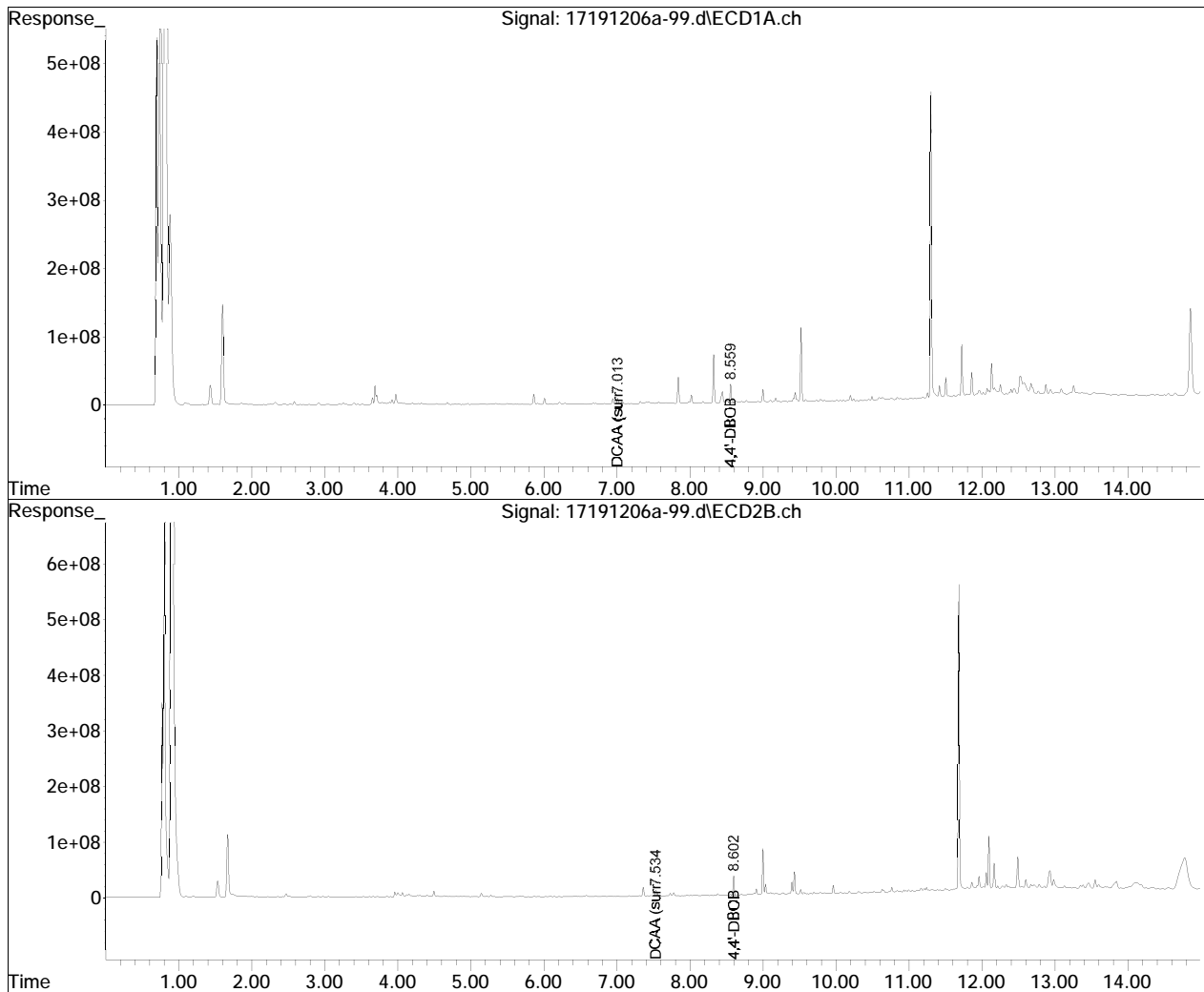
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed a-93.d••d)

Data Path : I:\Pest17\191206A\
Data File : 17191206a-99.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Dec 2019 6:07 pm
Operator : PEST17:jmc
Sample : 11957339-20,42e,, 8151
Misc : wg1317631,wg1316102,ical16100
ALS Vial : 99 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 09 17:49:51 2019
Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Fri Dec 06 11:41:45 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest17\191206A\	QMethod	: Herb17_09_03_ICAL16100.m
Data File	: 17191206a-99.d	Operator	: PEST17:jmc
Date Inj'd	: 12/7/2019 6:07 pm	Instrument	: Pest 17
Sample	: 11957339-20,42e,, 8151	Quant Date	: 12/9/2019 5:49 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191206A\
 Data File : 17191206a-100.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Dec 2019 6:25 pm
 Operator : PEST17:jmc
 Sample : 11957339-21,42e,, 8151
 Misc : wgl1317631,wgl1315317,ical16100
 ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 09 17:50:37 2019
 Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Fri Dec 06 11:41:45 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191206A\17191206a-93.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.561	8.602	290.3E6	367.2E6	0.250	0.250
Standard Area 1 : #1 = 336318866					Recovery =	86.30%
Standard Area 1 : #2 = 423157847					Recovery =	86.77%
System Monitoring Compounds						
3) s DCAA (surrog	7.015	7.534	101.8E6	120.0E6	0.540	0.408
Spiked Amount	0.500	Range 30 - 150			Recovery =	108.00%
81.60%						
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D.	N.D.
4) t Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D.
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D.	N.D. d
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

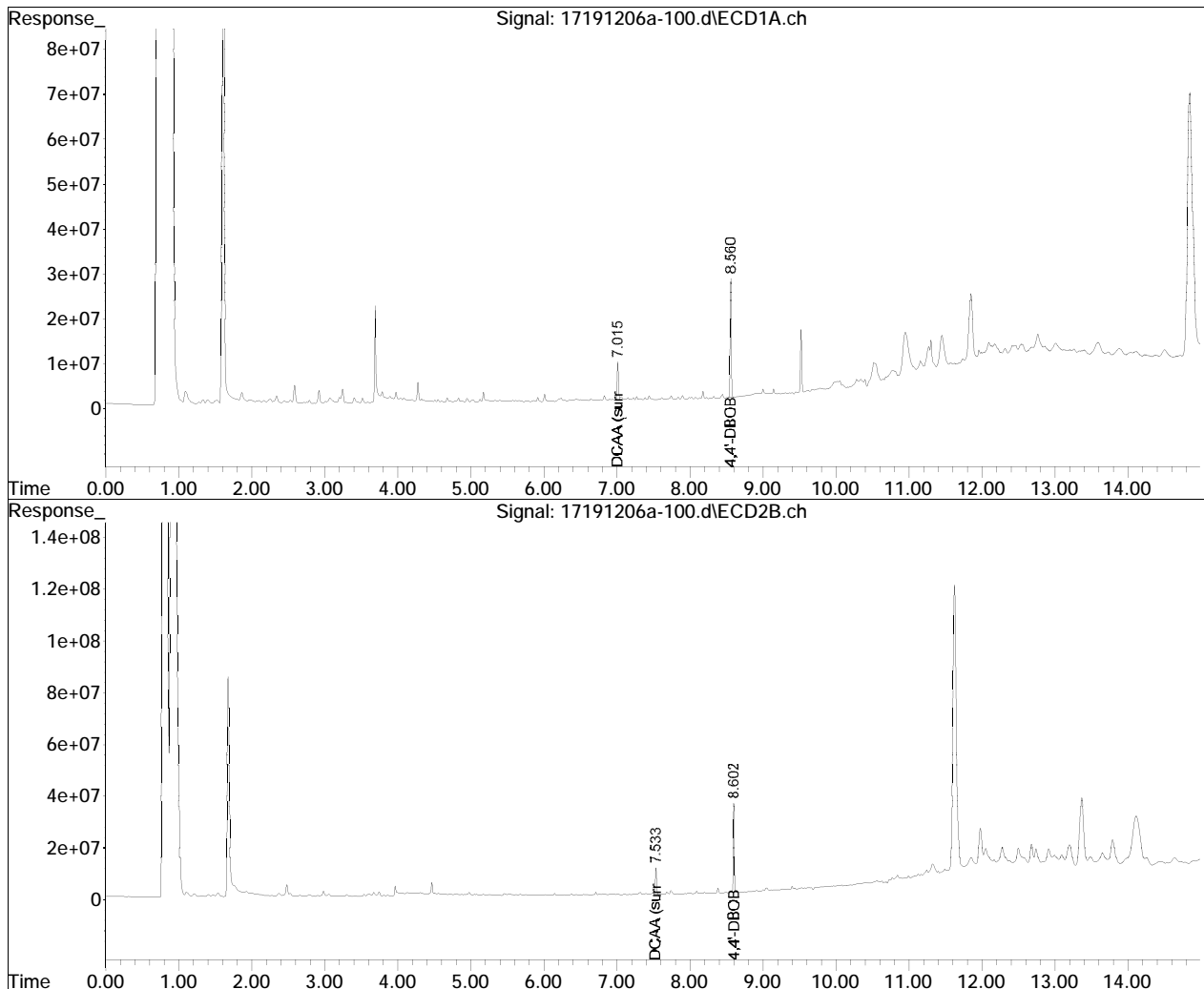
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coeluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed a-93.d••d)

Data Path : I:\Pest17\191206A\
Data File : 17191206a-100.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Dec 2019 6:25 pm
Operator : PEST17:jmc
Sample : 11957339-21,42e,, 8151
Misc : wg1317631,wg1315317,ical16100
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 09 17:50:37 2019
Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Fri Dec 06 11:41:45 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest17\191206A\	QMethod	: Herb17_09_03_ICAL16100.m
Data File	: 17191206a-100.d	Operator	: PEST17:jmc
Date Inj'd	: 12/7/2019 6:25 pm	Instrument	: Pest 17
Sample	: 11957339-21,42e,, 8151	Quant Date	: 12/9/2019 5:50 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191206A\
 Data File : 17191206a-101.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Dec 2019 6:43 pm
 Operator : PEST17:jmc
 Sample : 11957339-22,42e,, 8151
 Misc : wg1317631,wg1315317,ical16100 (Sig #1); wg1317631,wg1316102,ical16100 (Sig #2)
 ALS Vial : 101 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 09 17:51:49 2019
 Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Fri Dec 06 11:41:45 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191206A\17191206a-93.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.561	8.602	305.9E6	383.7E6	0.250	0.250
Standard Area 1 : #1 = 336318866					Recovery =	90.94%
Standard Area 1 : #2 = 423157847					Recovery =	90.67%
System Monitoring Compounds						
3) s DCAA (surrog	7.014	7.534	106.6E6	124.7E6	0.537	0.406
Spiked Amount	0.500	Range 30 - 150		Recovery =	107.40%	81.20%
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D. d	N.D.
4) t Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t MCPA	0.000	0.000	0	0	N.D. d	N.D.
7) t Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D.
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coeluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed a-93.d••d)

Data Path : I:\Pest17\191206A\
Data File : 17191206a-101.d

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 7 Dec 2019 6:43 pm

Operator : PEST17:jmc

Sample : 11957339-22,42e,, 8151

Misc : wg1317631,wg1315317,ical16100 (Sig #1); wg1317631,wg1316102,ical16

ALS Vial : 101 Sample Multiplier: 1

Integration File signal 1: events.e

Integration File signal 2: events2.e

Quant Time: Dec 09 17:51:49 2019

Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m

Quant Title : herb

QLast Update : Fri Dec 06 11:41:45 2019

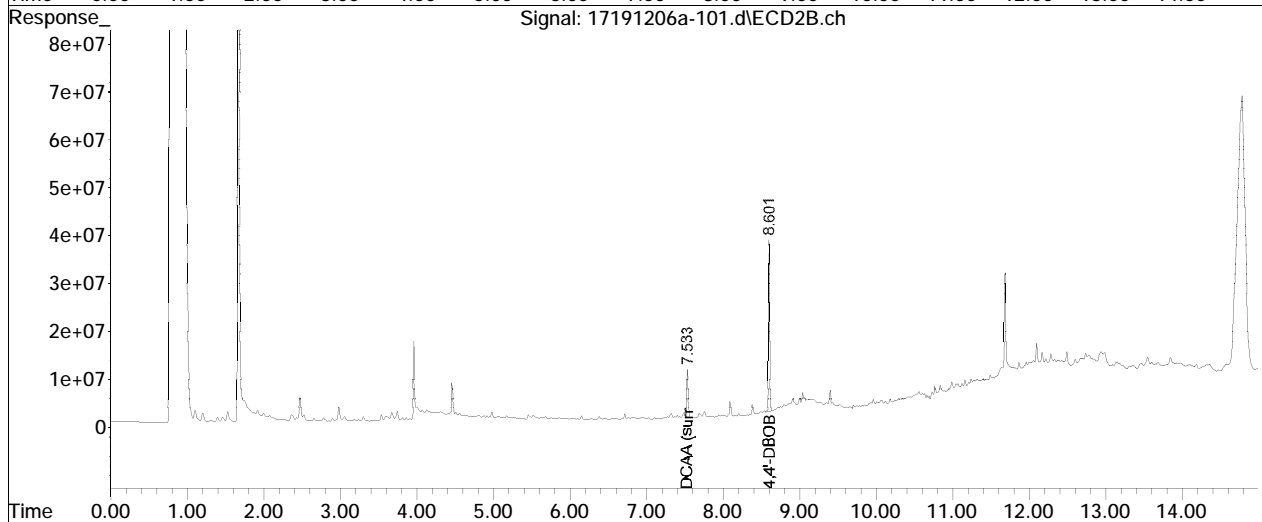
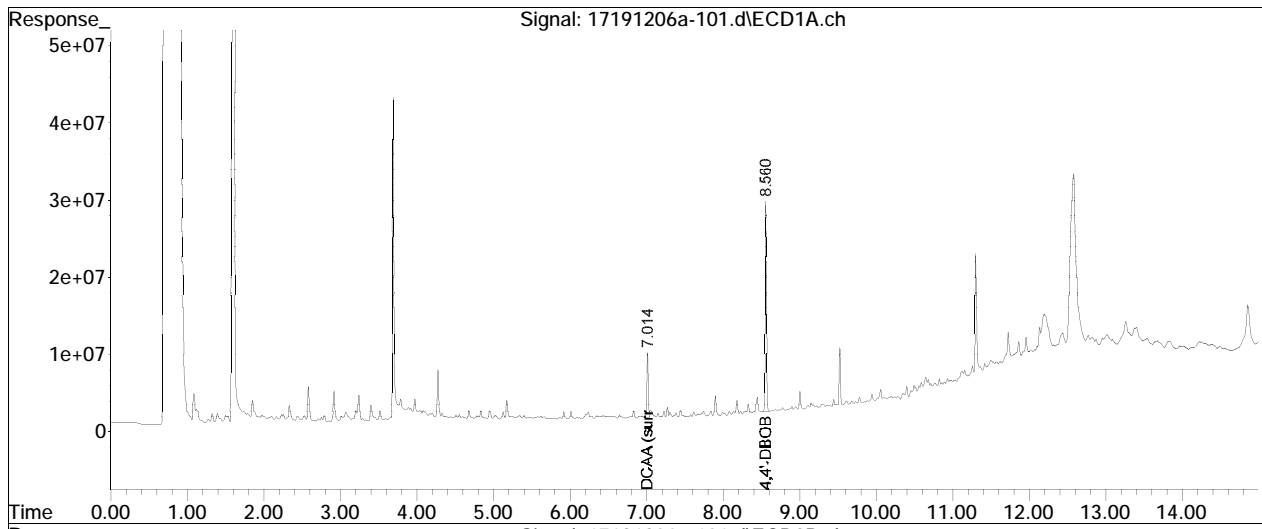
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. :

Signal #1 Phase : Signal #2 Phase:

Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest17\191206A\	QMethod	: Herb17_09_03_ICAL16100.m
Data File	: 17191206a-101.d	Operator	: PEST17:jmc
Date Inj'd	: 12/7/2019 6:43 pm	Instrument	: Pest 17
Sample	: 11957339-22,42e,, 8151	Quant Date	: 12/9/2019 5:50 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191206A\
 Data File : 17191206a-102.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Dec 2019 7:02 pm
 Operator : PEST17:jmc
 Sample : 11957339-24,42e,, 8151
 Misc : wgl1317631,wgl1315317,ical16100
 ALS Vial : 102 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 09 17:52:37 2019
 Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Fri Dec 06 11:41:45 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191206A\17191206a-93.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.561	8.601	292.1E6	369.6E6	0.250	0.250
Standard Area 1 : #1 = 336318866					Recovery =	86.84%
Standard Area 1 : #2 = 423157847					Recovery =	87.34%
System Monitoring Compounds						
3) s DCAA (surrog	7.014	7.533	92628165	106.7E6	0.488	0.360
Spiked Amount	0.500	Range 30 - 150		Recovery =	97.60%	72.00%
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D. d	N.D.
4) t Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D.	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D.	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D.	N.D. d
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

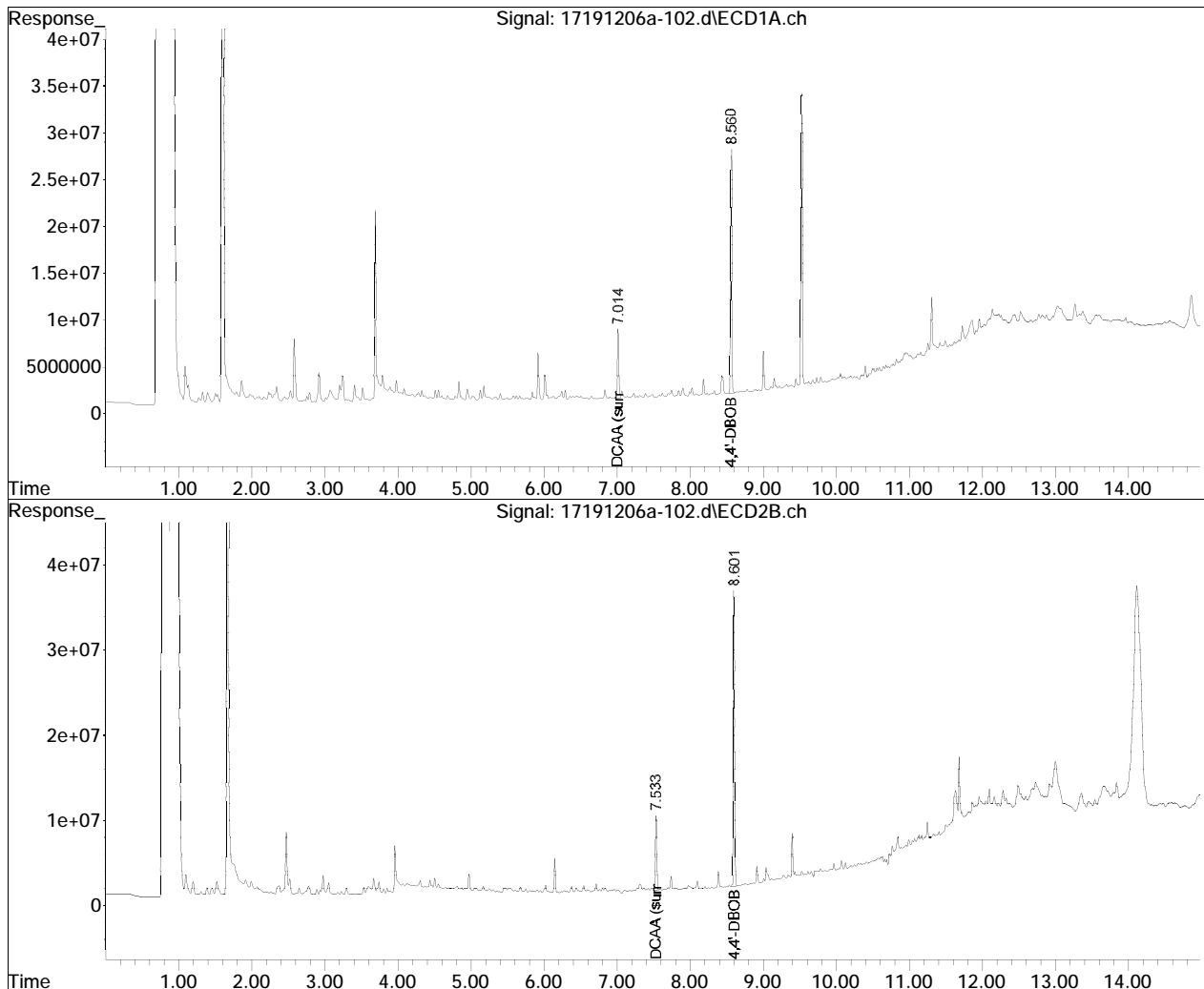
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed a-93.d••d)

Data Path : I:\Pest17\191206A\
Data File : 17191206a-102.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Dec 2019 7:02 pm
Operator : PEST17:jmc
Sample : 11957339-24,42e,, 8151
Misc : wg1317631,wg1315317,ical16100
ALS Vial : 102 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 09 17:52:37 2019
Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Fri Dec 06 11:41:45 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest17\191206A\	QMethod	: Herb17_09_03_ICAL16100.m
Data File	: 17191206a-102.d	Operator	: PEST17:jmc
Date Inj'd	: 12/7/2019 7:02 pm	Instrument	: Pest 17
Sample	: 11957339-24,42e,, 8151	Quant Date	: 12/9/2019 5:51 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191206A\
 Data File : 17191206a-103.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Dec 2019 7:20 pm
 Operator : PEST17:jmc
 Sample : 11957339-25,42e,, 8151
 Misc : wg1317631,wg1315317,ical16100
 ALS Vial : 103 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 09 18:01:00 2019
 Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Fri Dec 06 11:41:45 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191206A\17191206a-93.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.560	8.602	305.4E6	389.4E6	0.250	0.250
Standard Area 1 : #1 = 336318866					Recovery =	90.81%
Standard Area 1 : #2 = 423157847					Recovery =	92.02%
System Monitoring Compounds						
3) s DCAA (surrog	7.013	7.534	102.5E6	125.3E6	0.516	0.402
Spiked Amount	0.500	Range 30 - 150		Recovery =	103.20%	80.40%
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D.	N.D.
4) t Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D.	N.D. d
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

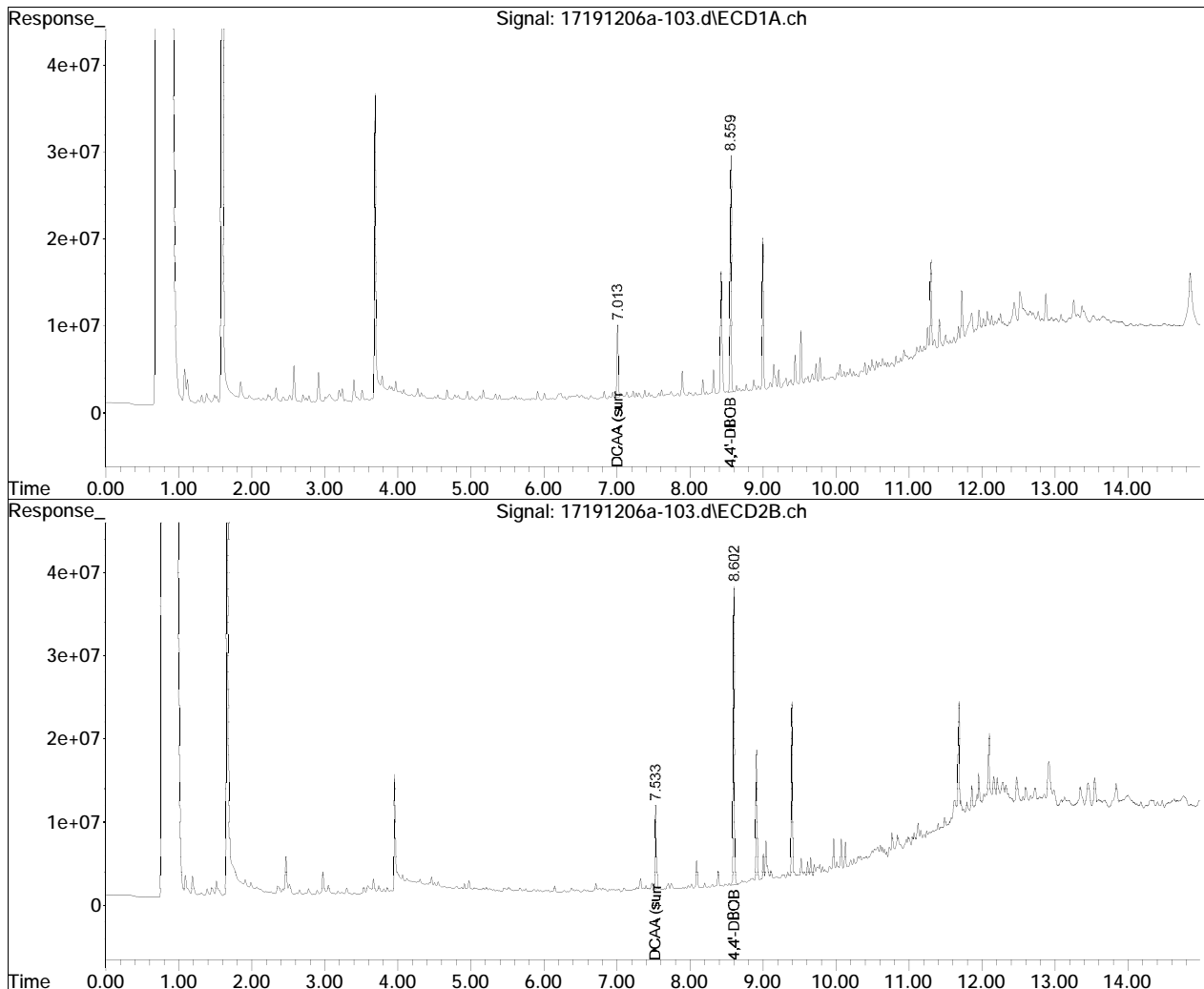
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coeluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda-93.d••d)

Data Path : I:\Pest17\191206A\
Data File : 17191206a-103.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Dec 2019 7:20 pm
Operator : PEST17:jmc
Sample : 11957339-25,42e,, 8151
Misc : wg1317631,wg1315317,ical16100
ALS Vial : 103 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 09 18:01:00 2019
Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Fri Dec 06 11:41:45 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest17\191206A\	QMethod	: Herb17_09_03_ICAL16100.m
Data File	: 17191206a-103.d	Operator	: PEST17:jmc
Date Inj'd	: 12/7/2019 7:20 pm	Instrument	: Pest 17
Sample	: 11957339-25,42e,, 8151	Quant Date	: 12/9/2019 6:00 pm

There are no manual integrations or false positives in this file.

Analytical Event

Continuing Calibration

Evaluate Continuing Calibration Report

Data Path : I:\Pest22\data\2019\191210a\
 Data File : 22191210a-26.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 10 Dec 2019 07:30 pm
 Operator : pest22:bm
 Sample : wgl318866-4,42e,, herb cc 9495
 Misc : wgl318866,ical16347
 ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 11 09:07:44 2019
 Quant Method : I:\Pest22\data\2019\191210a\Herb22_19_12_08_mgL_ICAL16347.m
 Quant Title : herb
 QLast Update : Mon Dec 09 12:05:05 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 i	4,4'-DBOB	0.250	0.250	0.0	112	0.00
2 t	Dalapon	0.182	0.163	10.4	95	0.00
3 s	DCAA (surrogate)	0.188	0.188	0.0	108	0.00
4 t	Dicamba	0.188	0.189	-0.5	112	0.00
5 t	MCP	18.800	18.513	1.5	106	0.00
6 t	MCPA	18.600	18.764	-0.9	109	0.00
7 t	Dichloroprop	0.188	0.202	-7.4	121	0.00
8 t	2,4-D	0.188	0.195	-3.7	119	0.00
9 t	2,4,5-TP (Silvex)	0.190	0.210	-10.5	123	0.00
10 t	2,4,5-T	0.190	0.203	-6.8	120	0.00
11 t	2,4-DB	0.192	0.171	10.9	92	0.00
12 t	Dinoseb	0.190	0.200	-5.3	118	0.00

Signal #2

1 i	4,4'-DBOB	0.250	0.250	0.0	115	0.00
2 t	Dalapon	0.182	0.152	16.5#	93	0.00
3 s	DCAA (surrogate)	0.188	0.172	8.5	105	0.00
4 t	Dicamba	0.188	0.178	5.3	111	0.00
5 t	MCP	18.800	16.537	12.0	99	0.00
6 t	MCPA	18.600	17.075	8.2	103	0.00
7 t	Dichloroprop	0.188	0.199	-5.9	123	0.00
8 t	2,4-D	0.188	0.175	6.9	115	0.00
9 t	2,4,5-TP (Silvex)	0.190	0.200	-5.3	124	0.00
10 t	2,4,5-T	0.190	0.193	-1.6	120	0.00
11 t	2,4-DB	0.192	0.194	-1.0	121	0.00
12 t	Dinoseb	0.190	0.188	1.1	116	0.00

Evaluate Continuing Calibration Report - Not Found

Evaluate Continuing Calibration Report

Data Path : I:\Pest22\data\2019\191210a\
Data File : 22191210a-26.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Dec 2019 07:30 pm
Operator : pest22:bm
Sample : wg1318866-4,42e,, herb cc 9495
Misc : wg1318866,ical16347
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 11 09:07:44 2019
Quant Method : I:\Pest22\data\2019\191210a\Herb22_19_12_08_mgL_ICAL16347.m
Quant Title : herb
QLast Update : Mon Dec 09 12:05:05 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

Signal #2					

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest22\data\2019\191210a\
 Data File : 22191210a-26.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 10 Dec 2019 07:30 pm
 Operator : pest22:bm
 Sample : wg1318866-4,42e,, herb cc 9495
 Misc : wg1318866,ical16347
 ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 11 09:07:44 2019
 Quant Method : I:\Pest22\data\2019\191210a\Herb22_19_12_08_mgL_ICAL16347.m
 Quant Title : herb
 QLast Update : Mon Dec 09 12:05:05 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Internal Standards							
1) i	4,4'-DFOB	8.076	8.206	568.8E6	511.5E6	0.250	0.250
System Monitoring Compounds							
3) s	DCAA (surrog	6.532	7.131	69192428	66175821	0.188	0.172
	Spiked Amount	0.500	Range 30 - 150	Recovery =		37.60%	34.40%
Target Compounds							
2) t	Dalapon	2.083	2.166	61651902	58400386	0.163	0.152M4
4) t	Dicamba	6.709	7.309	213.7E6	201.1E6	0.189	0.178
5) t	MCPD	6.915	7.423	25490895	22580273	18.513	16.537
6) t	MCPA	7.061	7.651	46677131	43304058	18.764	17.075
7) t	Dichloroprop	7.412	7.968	70558805	64951562	0.202	0.199
8) t	2,4-D	7.623	8.251	84355651	86140987	0.195	0.175
9) t	2,4,5-TP (Si	8.351	8.915	319.4E6	293.7E6	0.210	0.200
10) t	2,4,5-T	8.577	9.211	323.7E6	290.0E6	0.203	0.193
11) t	2,4-DB	8.992	9.575	52002814	46486888	0.171	0.194
12) t	Dinoseb	9.742	9.801	224.4E6	191.3E6	0.200	0.188

SemiQuant Compounds - Not Calibrated on this Instrument

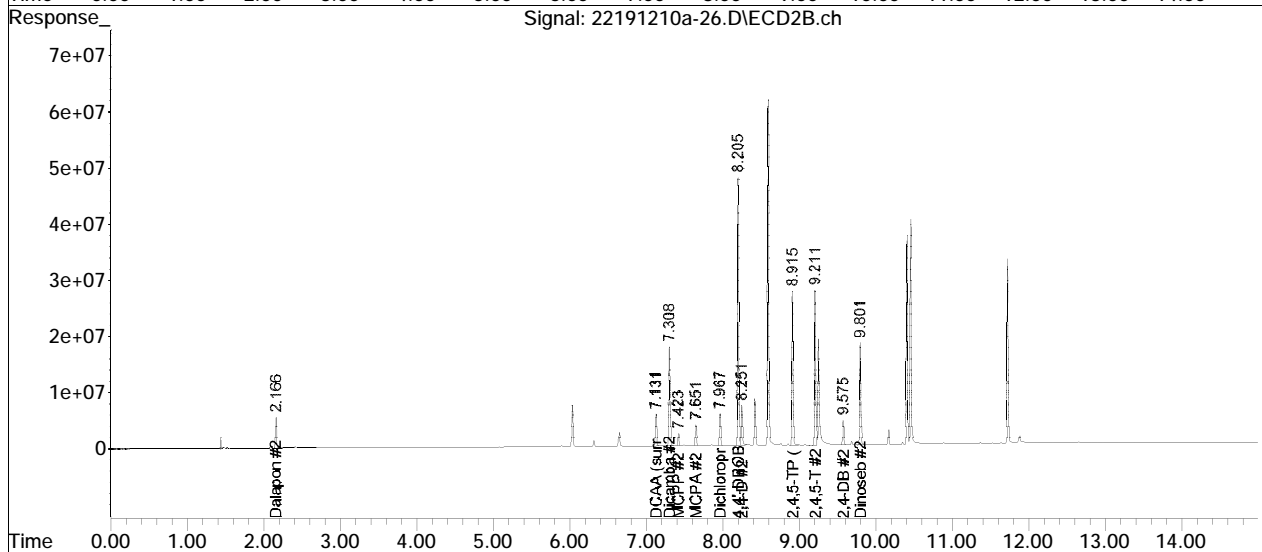
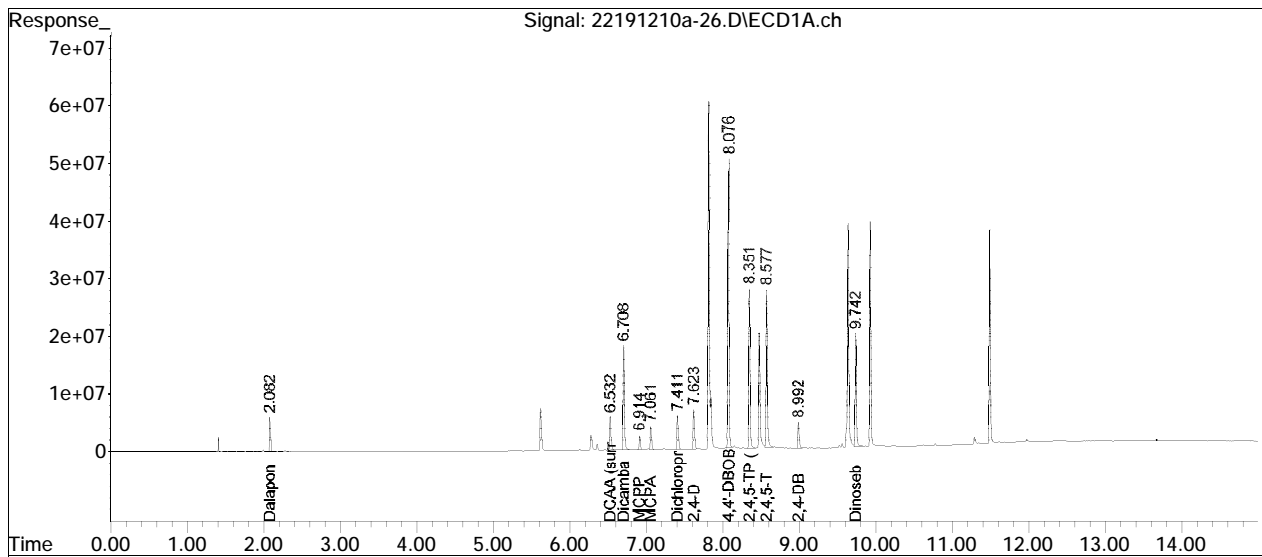
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest22\data\2019\191210a\
Data File : 22191210a-26.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Dec 2019 07:30 pm
Operator : pest22:bm
Sample : wg1318866-4,42e,, herb cc 9495
Misc : wg1318866,ical16347
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 11 09:07:44 2019
Quant Method : I:\Pest22\data\2019\191210a\Herb22_19_12_08_mgL_ICAL16347.m
Quant Title : herb
QLast Update : Mon Dec 09 12:05:05 2019
Response via : Initial Calibration
Integrator: ChemStation

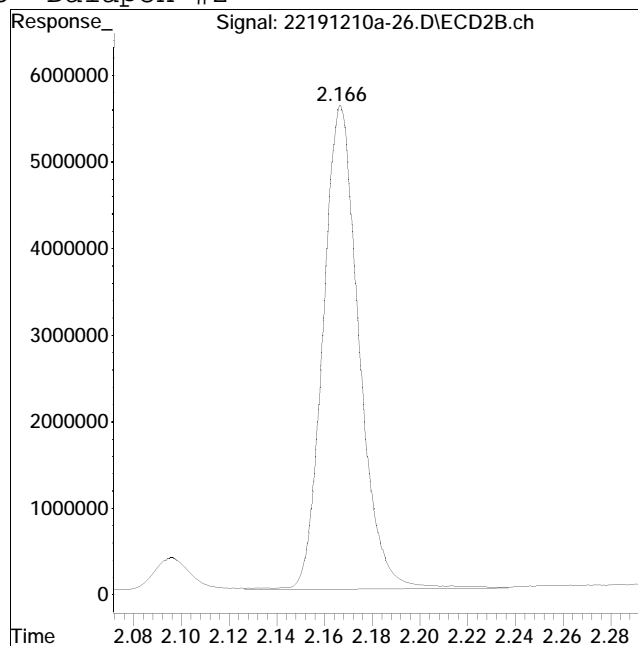
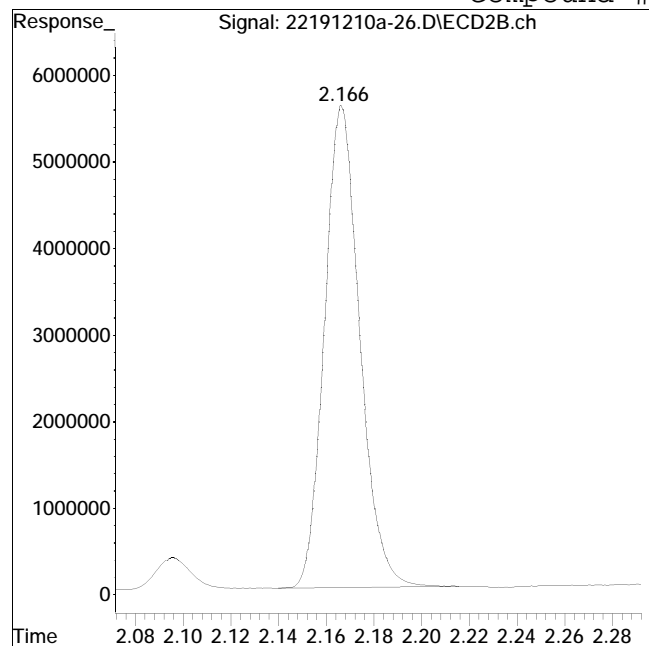
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest22\data\2019\191210QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191210a-26.D Operator : pest22:bm
Date Inj'd : 12/10/2019 7:30 pm Instrument : Pest22
Sample : wg1318866-4,42e,, herb cc Quant Date : 12/11/2019 9:06 am

Compound #15: Dalapon #2



Original Peak Response = 57129746

Manual Peak Response = 58400386 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\Pest22\data\2019\191210a\
 Data File : 22191210a-34.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 10 Dec 2019 09:56 pm
 Operator : pest22:jmc
 Sample : wg1318866-5,42e,, herb cc 9495
 Misc : wg1318866,ical16347
 ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 11 09:17:34 2019
 Quant Method : I:\Pest22\data\2019\191210a\Herb22_19_12_08_mgL_ICAL16347.m
 Quant Title : herb
 QLast Update : Mon Dec 09 12:05:05 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 i	4,4'-DBOB	0.250	0.250	0.0	115	0.00
2 t	Dalapon	0.182	0.162	11.0	98	0.00
3 s	DCAA (surrogate)	0.188	0.189	-0.5	112	0.00
4 t	Dicamba	0.188	0.190	-1.1	115	0.00
5 t	MCPD	18.800	18.778	0.1	111	0.00
6 t	MCPA	18.600	18.817	-1.2	112	0.00
7 t	Dichloroprop	0.188	0.203	-8.0	125	0.00
8 t	2,4-D	0.188	0.195	-3.7	123	0.00
9 t	2,4,5-TP (Silvex)	0.190	0.210	-10.5	126	0.00
10 t	2,4,5-T	0.190	0.204	-7.4	125	0.00
11 t	2,4-DB	0.192	0.171	10.9	94	0.00
12 t	Dinoseb	0.190	0.200	-5.3	121	0.00

Signal #2

1 i	4,4'-DBOB	0.250	0.250	0.0	119	0.00
2 t	Dalapon	0.182	0.154	15.4#	97	0.00
3 s	DCAA (surrogate)	0.188	0.173	8.0	109	0.00
4 t	Dicamba	0.188	0.182	3.2	117	0.00
5 t	MCPD	18.800	17.005	9.5	106	0.00
6 t	MCPA	18.600	17.290	7.0	108	0.00
7 t	Dichloroprop	0.188	0.199	-5.9	128	0.00
8 t	2,4-D	0.188	0.175	6.9	119	0.00
9 t	2,4,5-TP (Silvex)	0.190	0.200	-5.3	128	0.00
10 t	2,4,5-T	0.190	0.195	-2.6	126	0.00
11 t	2,4-DB	0.192	0.194	-1.0	125	0.00
12 t	Dinoseb	0.190	0.194	-2.1	124	0.00

Evaluate Continuing Calibration Report - Not Found

Evaluate Continuing Calibration Report

Data Path : I:\Pest22\data\2019\191210a\
 Data File : 22191210a-34.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 10 Dec 2019 09:56 pm
 Operator : pest22:jmc
 Sample : wg1318866-5,42e,, herb cc 9495
 Misc : wg1318866,ical16347
 ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 11 09:17:34 2019
 Quant Method : I:\Pest22\data\2019\191210a\Herb22_19_12_08_mgL_ICAL16347.m
 Quant Title : herb
 QLast Update : Mon Dec 09 12:05:05 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

Signal #2					

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest22\data\2019\191210a\
 Data File : 22191210a-34.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 10 Dec 2019 09:56 pm
 Operator : pest22:jmc
 Sample : wg1318866-5,42e,, herb cc 9495
 Misc : wg1318866,ical16347
 ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 11 09:17:34 2019
 Quant Method : I:\Pest22\data\2019\191210a\Herb22_19_12_08_mgL_ICAL16347.m
 Quant Title : herb
 QLast Update : Mon Dec 09 12:05:05 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

Internal Standards							
1) i	4,4'-DFOB	8.077	8.206	584.9E6	529.8E6	0.250	0.250
System Monitoring Compounds							
3) s	DCAA (surrog	6.532	7.131	71840719	68743719	0.189	0.173
	Spiked Amount	0.500	Range 30 - 150	Recovery =		37.80%	34.60%
Target Compounds							
2) t	Dalapon	2.084	2.168	63123559	60947466	0.162	0.154M4
4) t	Dicamba	6.708	7.308	220.9E6	212.1E6	0.190	0.182M4
5) t	MCPD	6.914	7.424	26587725	24046807	18.778	17.005M4
6) t	MCPA	7.061	7.651	48136145	45411626	18.817	17.290M4
7) t	Dichloroprop	7.412	7.968	72764349	67445612	0.203	0.199
8) t	2,4-D	7.623	8.252	86920608	88917943	0.195	0.175
9) t	2,4,5-TP (Si	8.351	8.916	327.8E6	303.7E6	0.210	0.200
10) t	2,4,5-T	8.577	9.211	335.2E6	302.9E6	0.204	0.195
11) t	2,4-DB	8.992	9.576	53392106	48075199	0.171	0.194
12) t	Dinoseb	9.742	9.801	230.5E6	204.8E6	0.200	0.194M4

SemiQuant Compounds - Not Calibrated on this Instrument

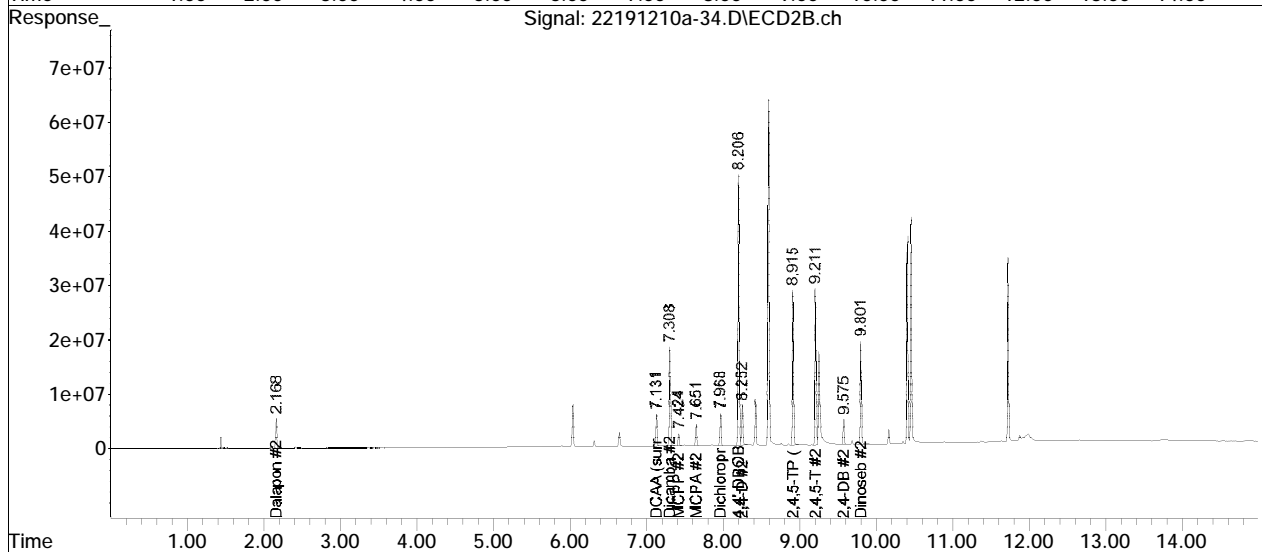
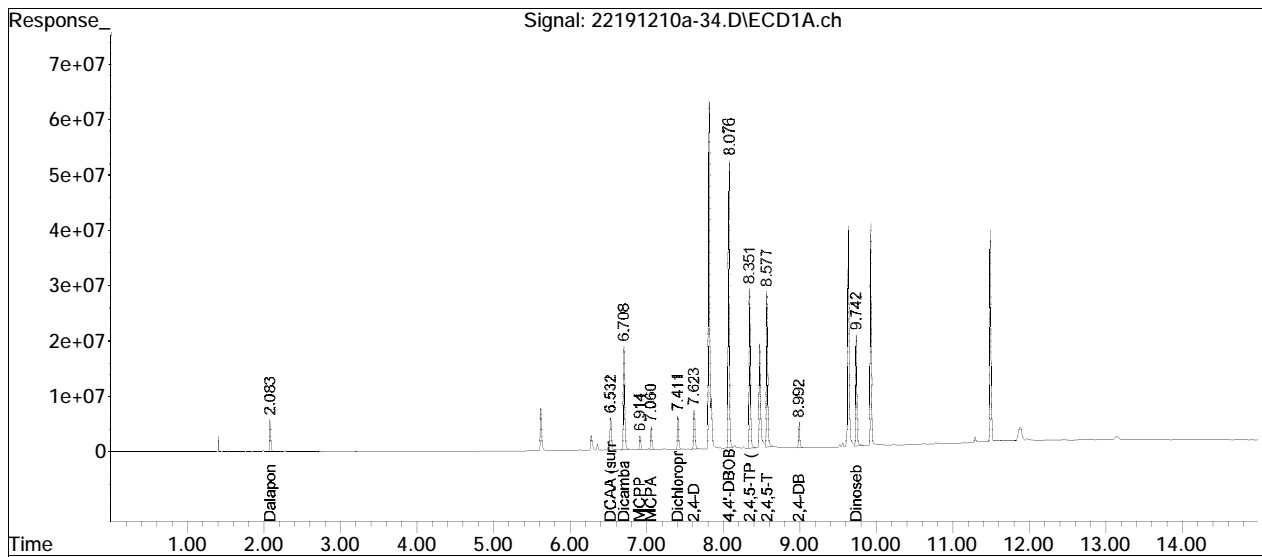
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coeluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest22\data\2019\191210a\
Data File : 22191210a-34.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Dec 2019 09:56 pm
Operator : pest22:jmc
Sample : wg1318866-5,42e,, herb cc 9495
Misc : wg1318866,ical16347
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 11 09:17:34 2019
Quant Method : I:\Pest22\data\2019\191210a\Herb22_19_12_08_mgL_ICAL16347.m
Quant Title : herb
QLast Update : Mon Dec 09 12:05:05 2019
Response via : Initial Calibration
Integrator: ChemStation

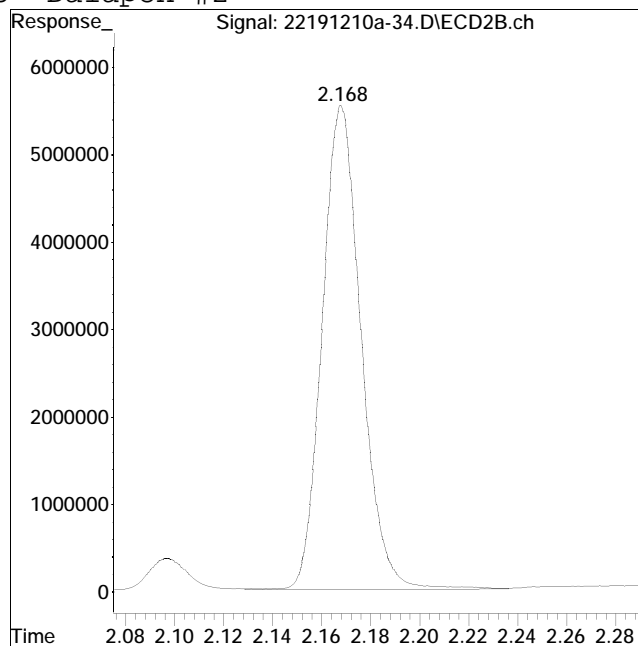
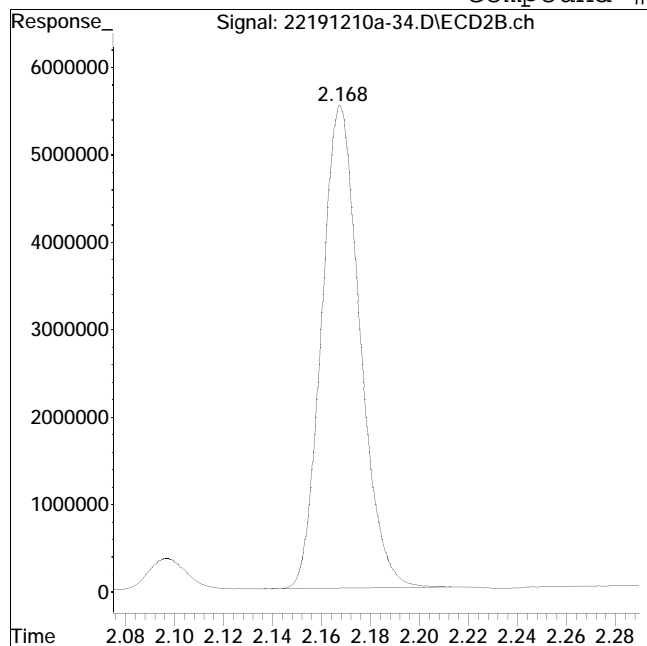
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest22\data\2019\191210QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191210a-34.D Operator : pest22:jmc
Date Inj'd : 12/10/2019 9:56 pm Instrument : Pest22
Sample : wg1318866-5,42e,, herb cc Quant Date : 12/11/2019 9:16 am

Compound #15: Dalapon #2



Original Peak Response = 59903425

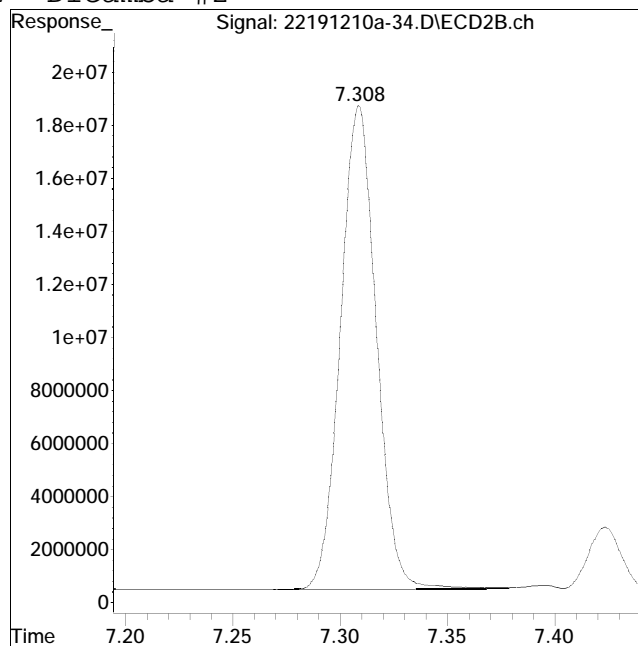
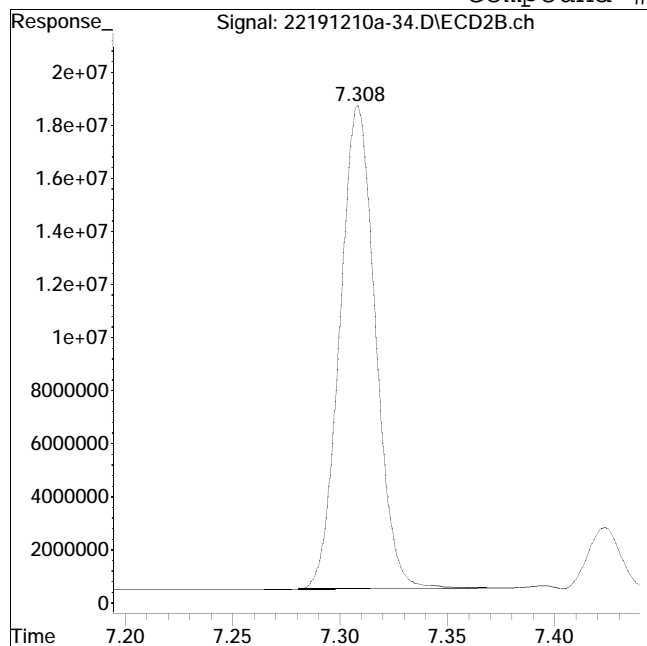
Manual Peak Response = 60947466 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191210QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191210a-34.D Operator : pest22:jmc
Date Inj'd : 12/10/2019 9:56 pm Instrument : Pest22
Sample : wg1318866-5,42e,, herb cc Quant Date : 12/11/2019 9:16 am

Compound #17: Dicamba #2



Original Peak Response = 209349902

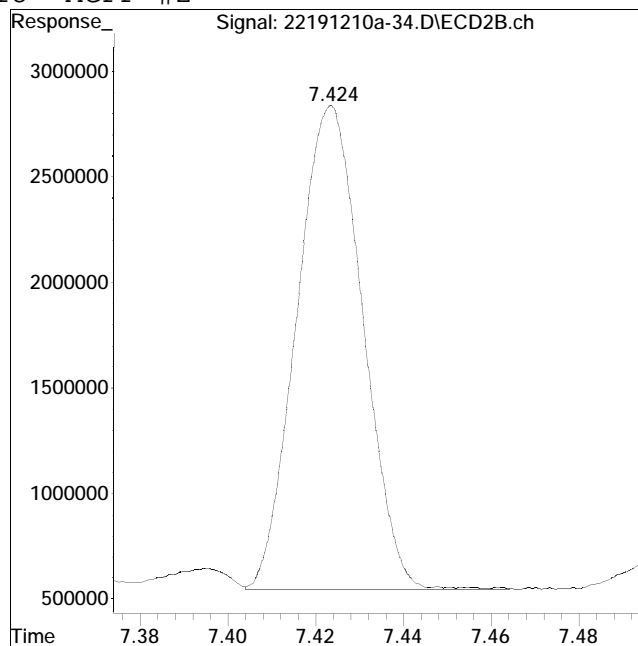
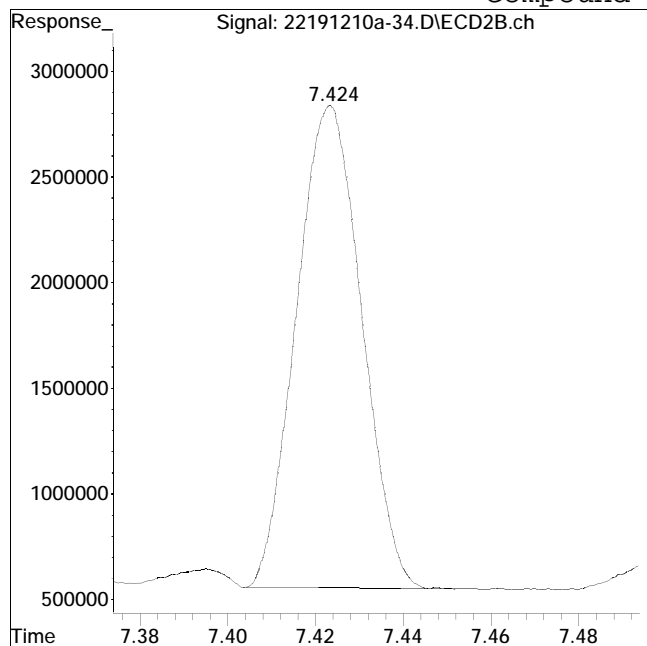
Manual Peak Response = 212147201 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191210QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191210a-34.D Operator : pest22:jmc
Date Inj'd : 12/10/2019 9:56 pm Instrument : Pest22
Sample : wg1318866-5,42e,, herb cc Quant Date : 12/11/2019 9:16 am

Compound #18: MCPP #2



Original Peak Response = 23566886

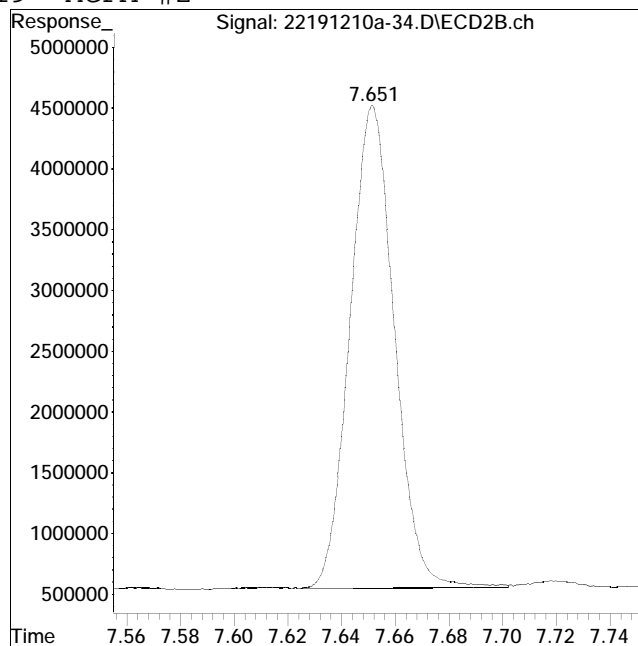
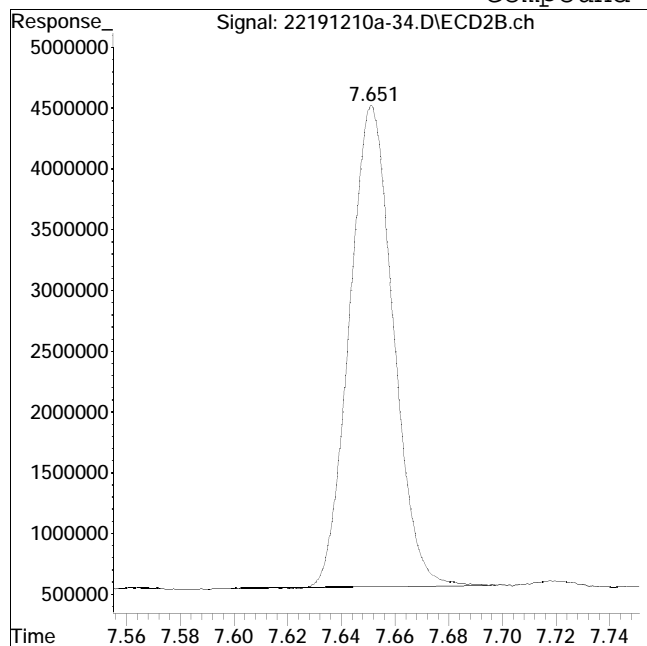
Manual Peak Response = 24046807 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191210QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191210a-34.D Operator : pest22:jmc
Date Inj'd : 12/10/2019 9:56 pm Instrument : Pest22
Sample : wg1318866-5,42e,, herb cc Quant Date : 12/11/2019 9:16 am

Compound #19: MCPA #2



Original Peak Response = 44732990

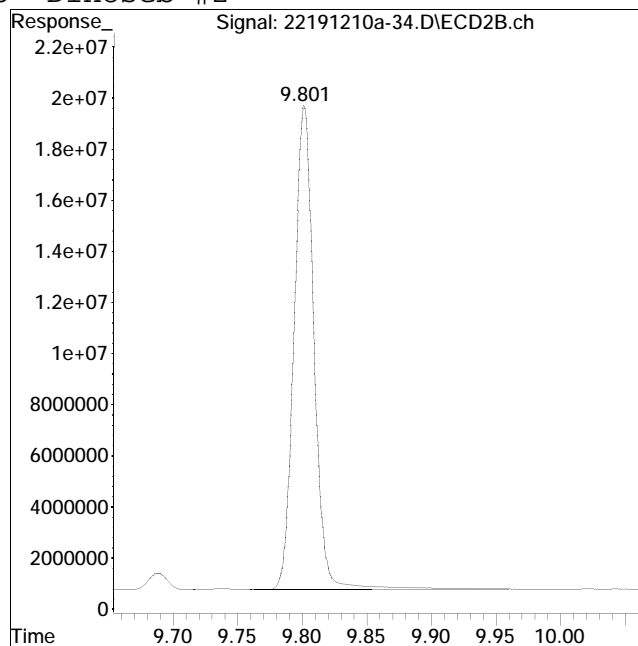
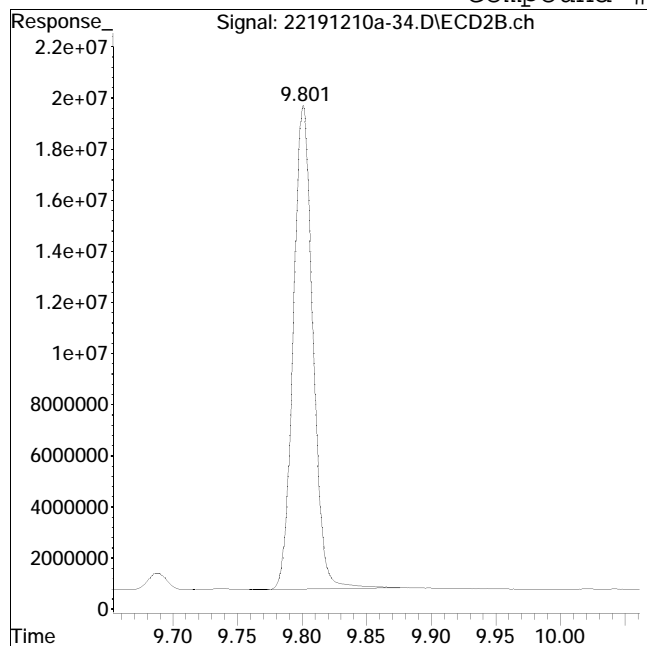
Manual Peak Response = 45411626 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191210QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191210a-34.D Operator : pest22:jmc
Date Inj'd : 12/10/2019 9:56 pm Instrument : Pest22
Sample : wg1318866-5,42e,, herb cc Quant Date : 12/11/2019 9:16 am

Compound #25: Dinoseb #2



Original Peak Response = 198809964

Manual Peak Response = 204786348 M4

M4 = Poor automated baseline construction.

Sample Raw Data

Quantitation Report (QT Reviewed)

Data Path : I:\Pest22\data\2019\191210a\
 Data File : 22191210a-30.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 10 Dec 2019 08:43 pm
 Operator : pest22:jmc
 Sample : 11957339-17,42e,, t
 Misc : wgl1318866,wgl1316266,ical16347
 ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 11 10:33:30 2019
 Quant Method : I:\Pest22\data\2019\191210a\Herb22_19_12_08_mgL_ICAL16347.m
 Quant Title : herb
 QLast Update : Mon Dec 09 12:05:05 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest22\data\2019\191210a\22191210a-26.D
 Sub List : HERB-TCLP - TCLP

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.077	8.206	605.6E6	679.3E6	0.250M4	0.250M4
Standard Area 1 : #1 = 568807420					Recovery	= 106.47%
Standard Area 1 : #2 = 511525609					Recovery	= 132.79%
System Monitoring Compounds						
3) s DCAA (surrog	6.532	7.131	119.3E6	119.4E6	0.304M4	0.234M4
Spiked Amount		0.500	Range 30 - 150	Recovery	= 60.80%	46.80%
Target Compounds						
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument						

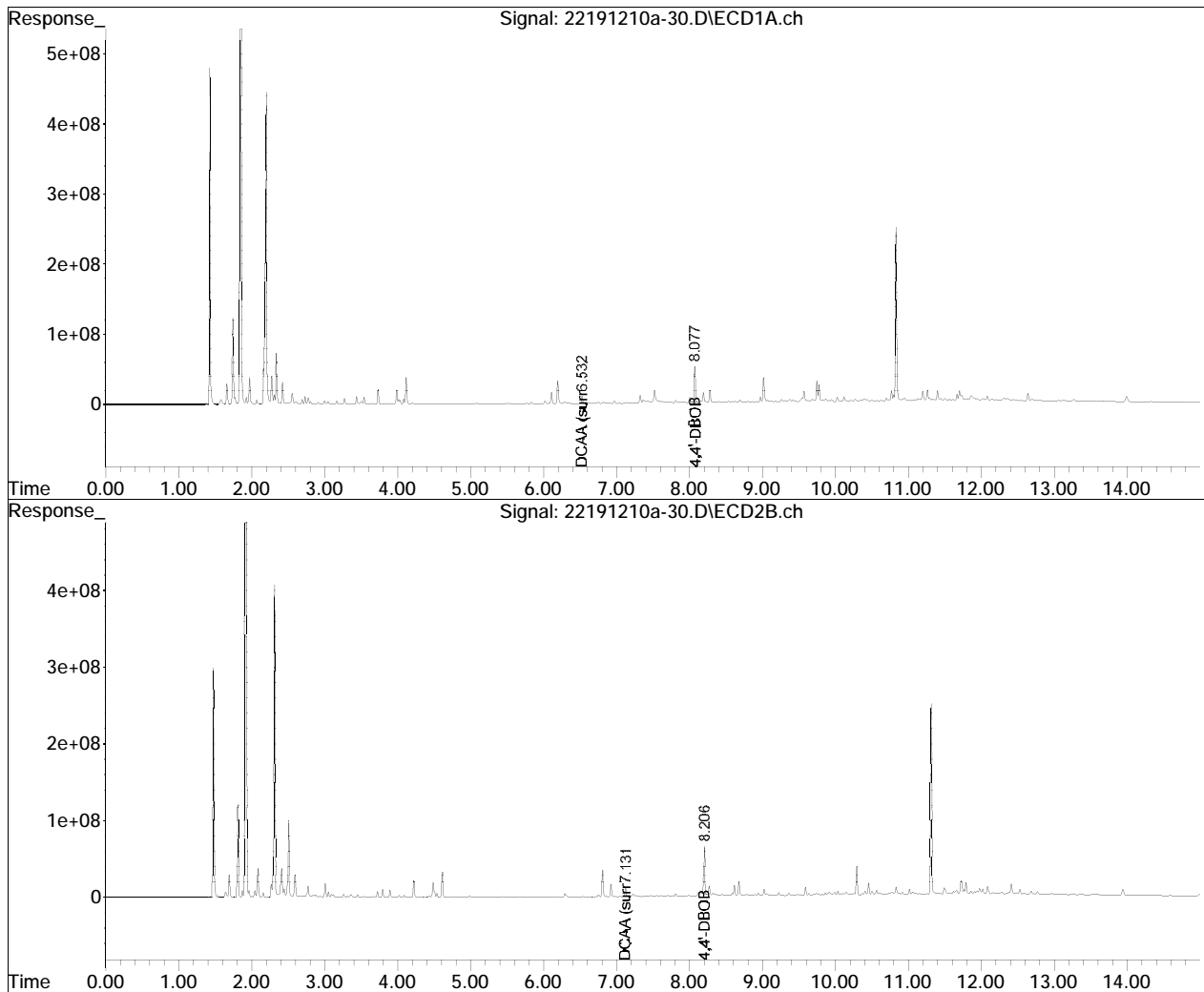
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : HERB-TCLP - TCLPta\2019\191210a\22191210a-26.D••

Data Path : I:\Pest22\data\2019\191210a\
Data File : 22191210a-30.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Dec 2019 08:43 pm
Operator : pest22:jmc
Sample : l1957339-17,42e,, t
Misc : wg1318866,wg1316266,ical16347
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 11 10:33:30 2019
Quant Method : I:\Pest22\data\2019\191210a\Herb22_19_12_08_mgL_ICAL16347.m
Quant Title : herb
QLast Update : Mon Dec 09 12:05:05 2019
Response via : Initial Calibration
Integrator: ChemStation

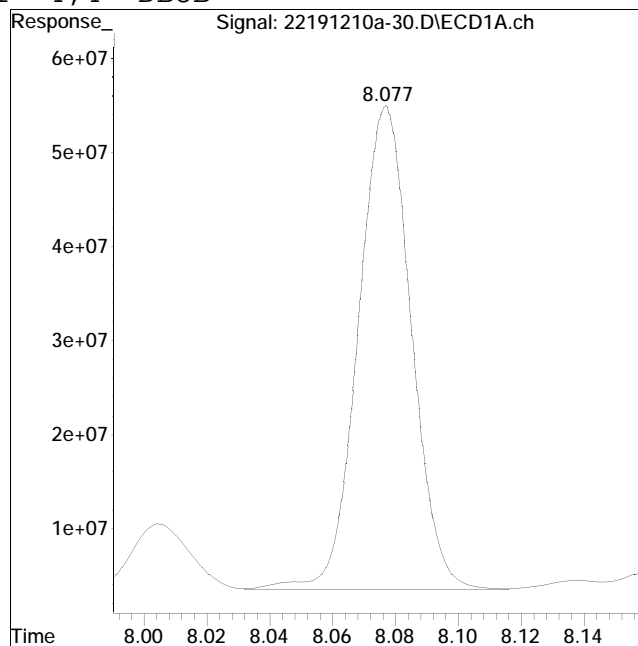
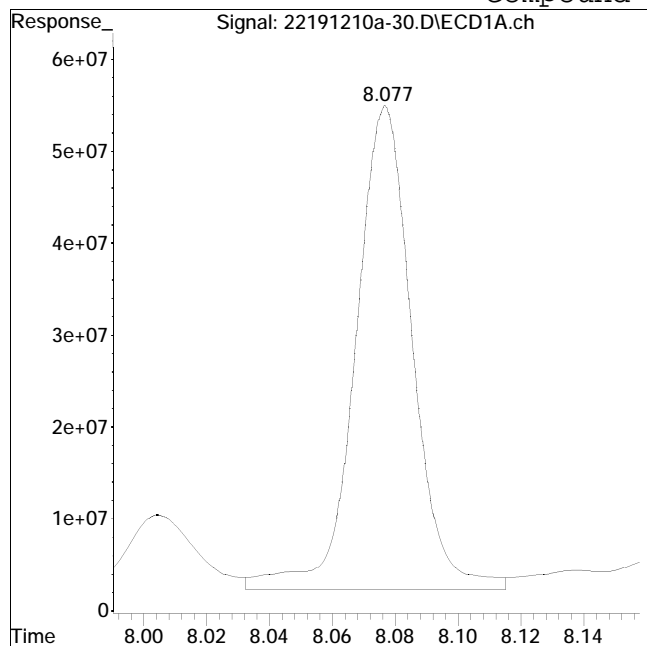
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest22\data\2019\191210QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191210a-30.D Operator : pest22:jmc
Date Inj'd : 12/10/2019 8:43 pm Instrument : Pest22
Sample : 11957339-17,42e,, t Quant Date : 12/11/2019 10:32 am

Compound #1: 4,4'-DBOB



Original Peak Response = 664199486

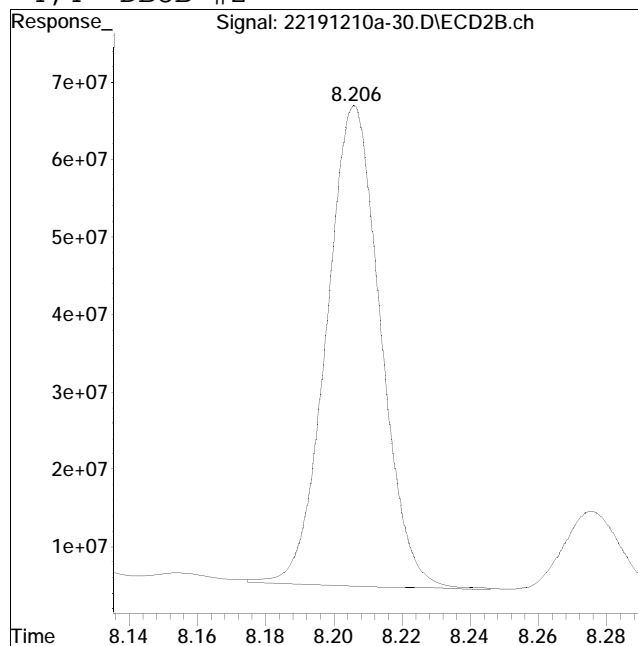
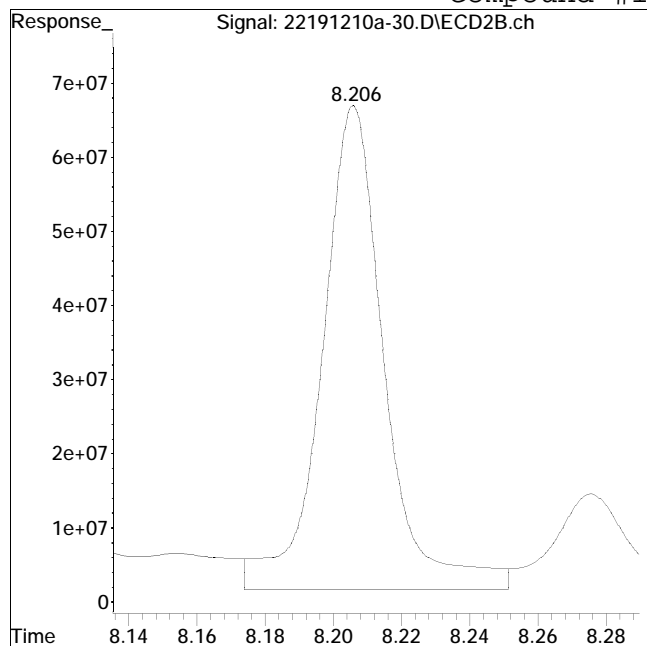
Manual Peak Response = 605590310 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191210QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191210a-30.D Operator : pest22:jmc
Date Inj'd : 12/10/2019 8:43 pm Instrument : Pest22
Sample : 11957339-17,42e,, t Quant Date : 12/11/2019 10:32 am

Compound #14: 4,4'-DBOB #2



Original Peak Response = 829819269

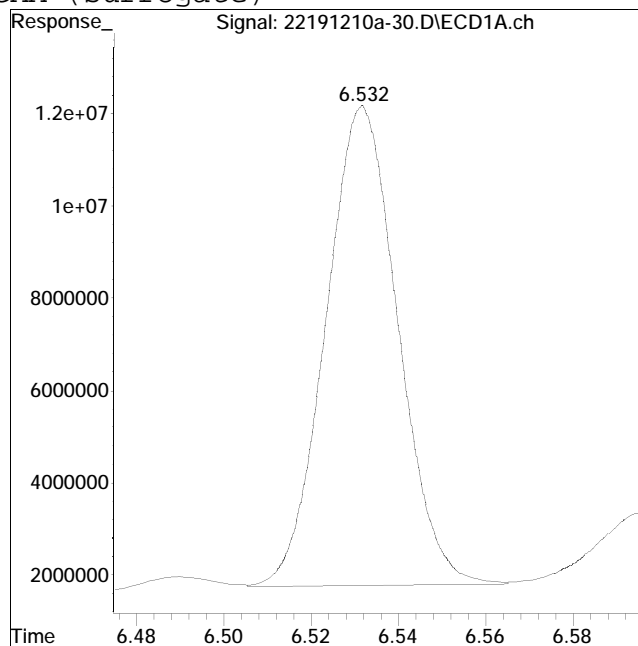
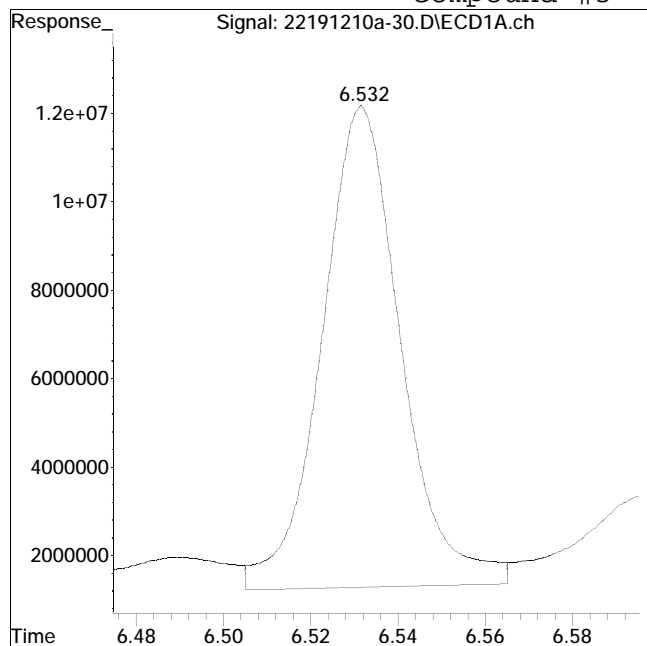
Manual Peak Response = 679266774 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191210QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191210a-30.D Operator : pest22:jmc
Date Inj'd : 12/10/2019 8:43 pm Instrument : Pest22
Sample : 11957339-17,42e,, t Quant Date : 12/11/2019 10:32 am

Compound #3: DCAA (surrogate)



Original Peak Response = 136628243

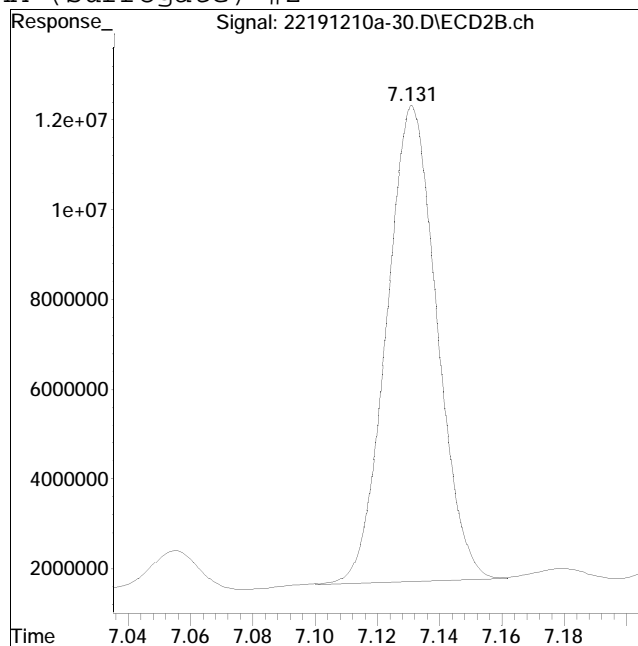
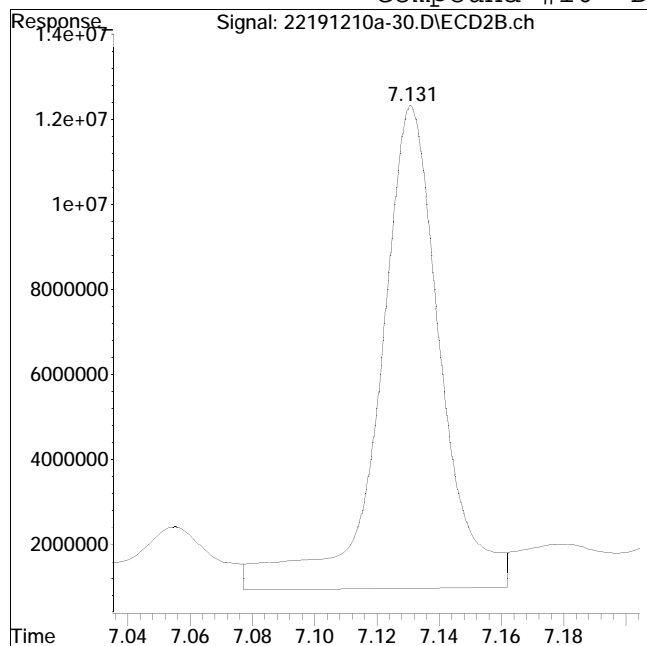
Manual Peak Response = 119252646 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191210QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191210a-30.D Operator : pest22:jmc
Date Inj'd : 12/10/2019 8:43 pm Instrument : Pest22
Sample : 11957339-17,42e,, t Quant Date : 12/11/2019 10:32 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 155897739

Manual Peak Response = 119370449 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest22\data\2019\191210a\
 Data File : 22191210a-31.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 10 Dec 2019 09:01 pm
 Operator : pest22:jmc
 Sample : 11957339-23,42e,, t
 Misc : wgl1318866,wgl1316266,ical16347
 ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 11 10:34:02 2019
 Quant Method : I:\Pest22\data\2019\191210a\Herb22_19_12_08_mgL_ICAL16347.m
 Quant Title : herb
 QLast Update : Mon Dec 09 12:05:05 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest22\data\2019\191210a\22191210a-26.D
 Sub List : HERB-TCLP - TCLP

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.077	8.206	611.2E6	601.4E6	0.250	0.250M3
Standard Area 1 : #1 = 568807420					Recovery = 107.46%	
Standard Area 1 : #2 = 511525609					Recovery = 117.57%	
System Monitoring Compounds						
3) s DCAA (surrog	6.532	7.131	149.1E6	151.2E6	0.376	0.335
Spiked Amount	0.500	Range 30 - 150		Recovery = 75.20%		67.00%
Target Compounds						
8) t 2,4-D	0.000	0.000	0	0	N.D.	N.D.
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D.	N.D.
SemiQuant Compounds - Not Calibrated on this Instrument						

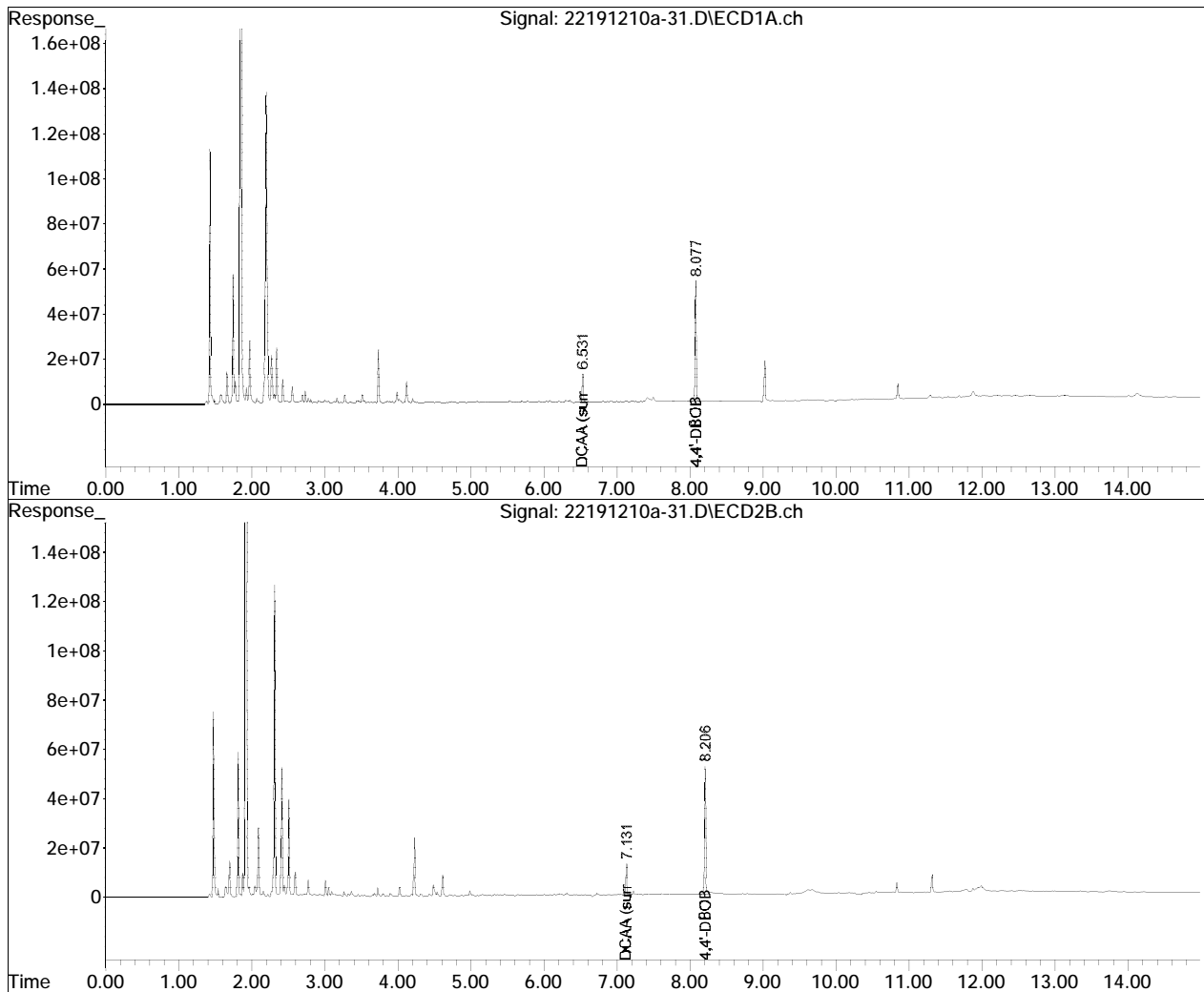
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coeluting Calibration Peak, F=Fails CC Criteria.

Sub List : HERB-TCLP - TCLPta\2019\191210a\22191210a-26.D••

Data Path : I:\Pest22\data\2019\191210a\
Data File : 22191210a-31.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Dec 2019 09:01 pm
Operator : pest22:jmc
Sample : 11957339-23,42e,, t
Misc : wg1318866,wg1316266,ical16347
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 11 10:34:02 2019
Quant Method : I:\Pest22\data\2019\191210a\Herb22_19_12_08_mgL_ICAL16347.m
Quant Title : herb
QLast Update : Mon Dec 09 12:05:05 2019
Response via : Initial Calibration
Integrator: ChemStation

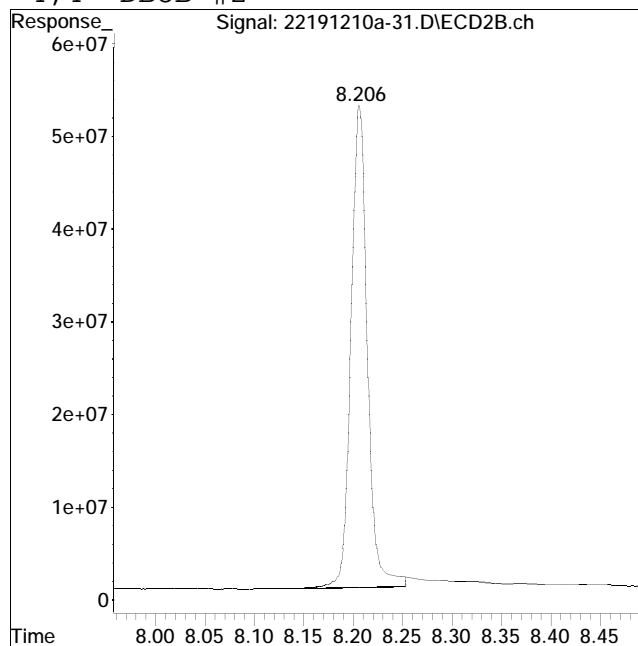
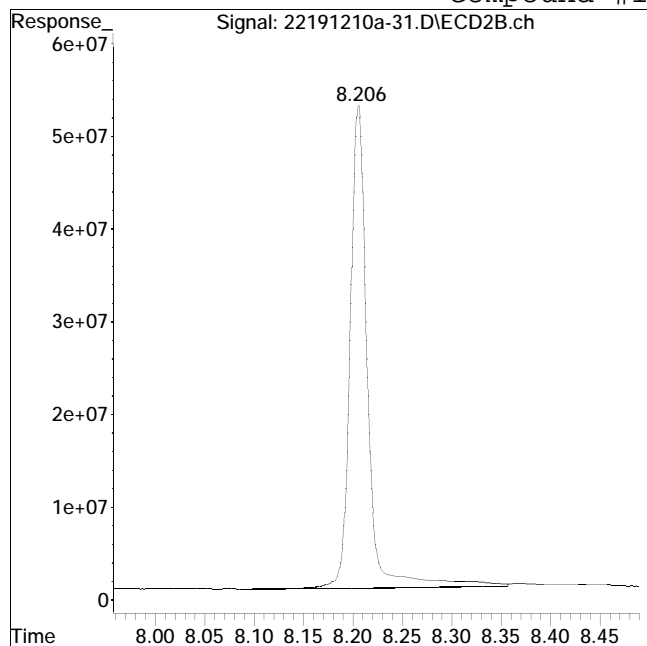
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest22\data\2019\191210QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191210a-31.D Operator : pest22:jmc
Date Inj'd : 12/10/2019 9:01 pm Instrument : Pest22
Sample : 11957339-23,42e,, t Quant Date : 12/11/2019 10:33 am

Compound #14: 4,4'-DBOB #2



Original Peak Response = 648571025

Manual Peak Response = 601396105 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest22\data\2019\191210a\
 Data File : 22191210a-32.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 10 Dec 2019 09:20 pm
 Operator : pest22:jmc
 Sample : l1957339-06,42e,, t
 Misc : wgl1318866,wgl1316266,ical16347
 ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 11 10:34:37 2019
 Quant Method : I:\Pest22\data\2019\191210a\Herb22_19_12_08_mgL_ICAL16347.m
 Quant Title : herb
 QLast Update : Mon Dec 09 12:05:05 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest22\data\2019\191210a\22191210a-26.D
 Sub List : HERB-TCLP - TCLP

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.077	8.206	571.4E6	532.5E6	0.250	0.250M4
Standard Area 1 : #1 = 568807420					Recovery = 100.46%	
Standard Area 1 : #2 = 511525609					Recovery = 104.09%	
System Monitoring Compounds						
3) s DCAA (surrog	6.531	7.132	134.0E6	128.5E6	0.361M4	0.322
Spiked Amount	0.500	Range 30 - 150		Recovery = 72.20%		64.40%
Target Compounds						
8) t 2,4-D	0.000	0.000	0	0	N.D.	N.D.
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D.	N.D.
SemiQuant Compounds - Not Calibrated on this Instrument						

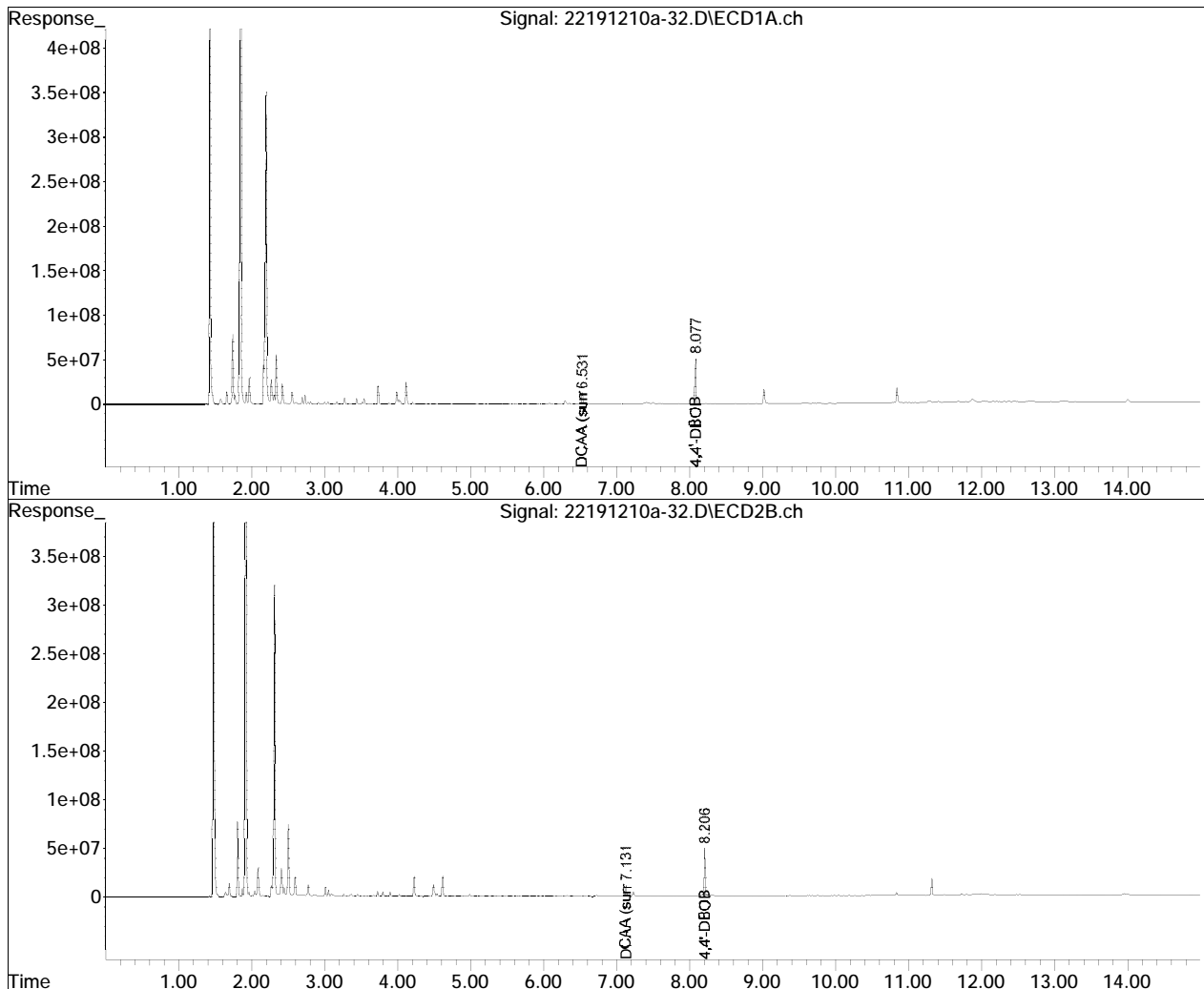
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coeluting Calibration Peak, F=Fails CC Criteria.

Sub List : HERB-TCLP - TCLPta\2019\191210a\22191210a-26.D••

Data Path : I:\Pest22\data\2019\191210a\
Data File : 22191210a-32.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Dec 2019 09:20 pm
Operator : pest22:jmc
Sample : 11957339-06,42e,, t
Misc : wg1318866,wg1316266,ical16347
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 11 10:34:37 2019
Quant Method : I:\Pest22\data\2019\191210a\Herb22_19_12_08_mgL_ICAL16347.m
Quant Title : herb
QLast Update : Mon Dec 09 12:05:05 2019
Response via : Initial Calibration
Integrator: ChemStation

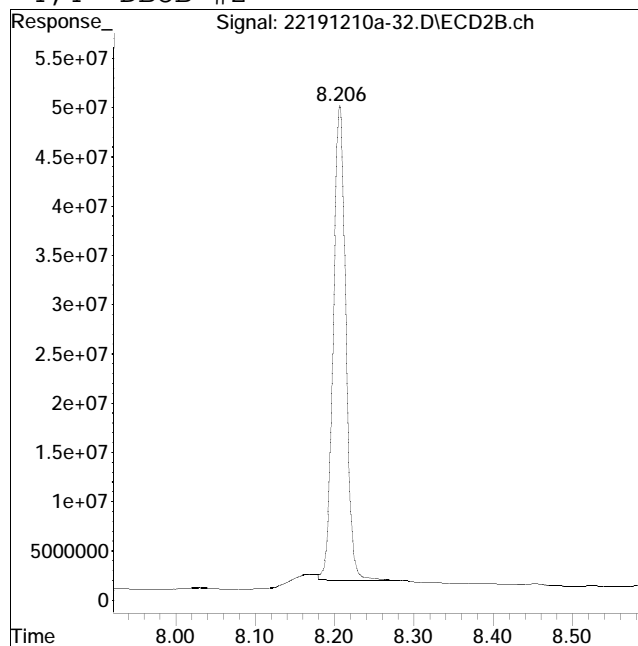
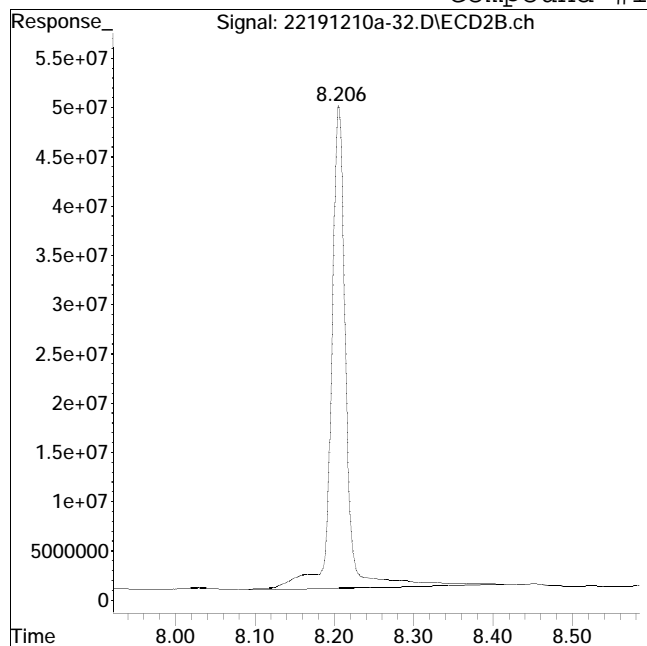
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest22\data\2019\191210QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191210a-32.D Operator : pest22:jmc
Date Inj'd : 12/10/2019 9:20 pm Instrument : Pest22
Sample : 11957339-06,42e,, t Quant Date : 12/11/2019 10:34 am

Compound #14: 4,4'-DBOB #2



Original Peak Response = 633017917

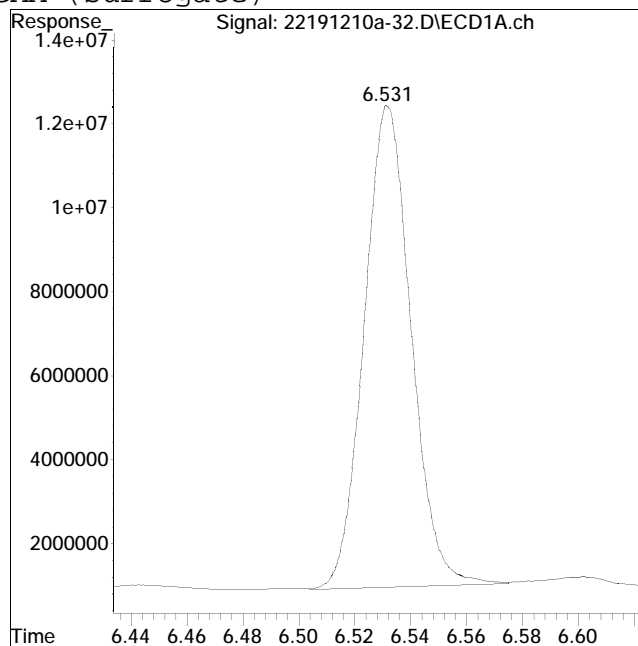
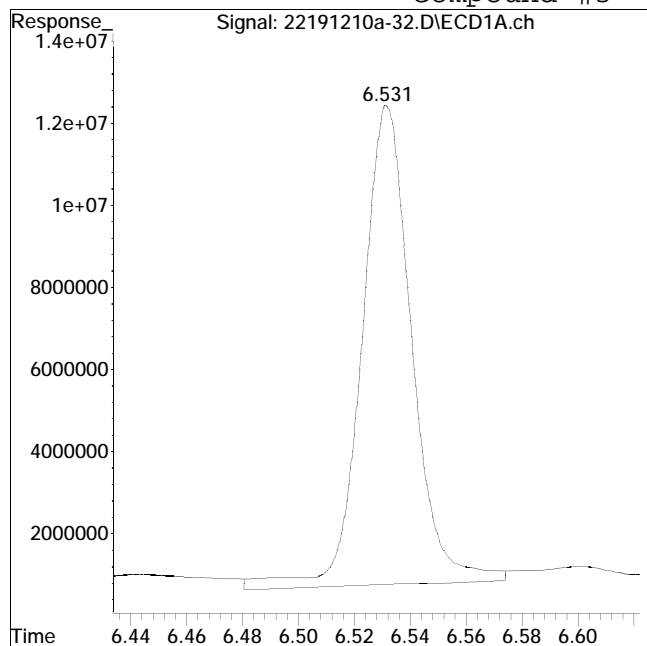
Manual Peak Response = 532465449 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191210QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191210a-32.D Operator : pest22:jmc
Date Inj'd : 12/10/2019 9:20 pm Instrument : Pest22
Sample : 11957339-06,42e,, t Quant Date : 12/11/2019 10:34 am

Compound #3: DCAA (surrogate)



Original Peak Response = 145507499

Manual Peak Response = 133987402 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest22\data\2019\191210a\
 Data File : 22191210a-33.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 10 Dec 2019 09:38 pm
 Operator : pest22:jmc
 Sample : 11957339-10,42e,, t
 Misc : wgl1318866,wgl1316266,ical16347
 ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 11 10:35:15 2019
 Quant Method : I:\Pest22\data\2019\191210a\Herb22_19_12_08_mgL_ICAL16347.m
 Quant Title : herb
 QLast Update : Mon Dec 09 12:05:05 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest22\data\2019\191210a\22191210a-26.D
 Sub List : HERB-TCLP - TCLP

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.077	8.206	629.9E6	604.3E6	0.250	0.250M3
Standard Area 1 : #1 = 568807420					Recovery = 110.74%	
Standard Area 1 : #2 = 511525609					Recovery = 118.14%	
System Monitoring Compounds						
3) s DCAA (surrog	6.532	7.131	146.5E6	137.5E6	0.358M4	0.303
Spiked Amount	0.500	Range 30 - 150		Recovery = 71.60%		60.60%
Target Compounds						
8) t 2,4-D	0.000	0.000	0	0	N.D.	N.D.
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D.	N.D.
SemiQuant Compounds - Not Calibrated on this Instrument						

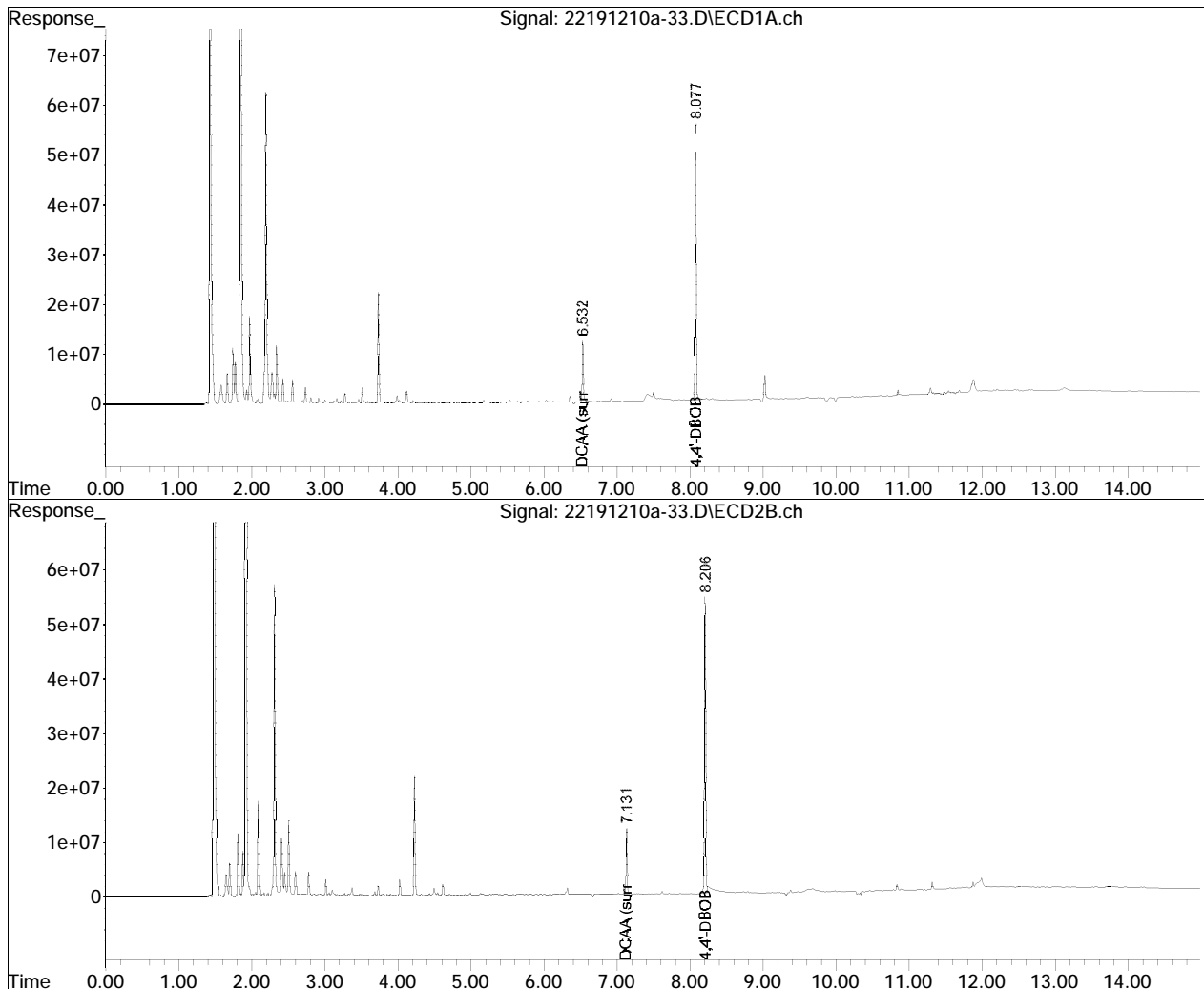
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coeluting Calibration Peak, F=Fails CC Criteria.

Sub List : HERB-TCLP - TCLPta\2019\191210a\22191210a-26.D••

Data Path : I:\Pest22\data\2019\191210a\
Data File : 22191210a-33.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Dec 2019 09:38 pm
Operator : pest22:jmc
Sample : 11957339-10,42e,, t
Misc : wg1318866,wg1316266,ical16347
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 11 10:35:15 2019
Quant Method : I:\Pest22\data\2019\191210a\Herb22_19_12_08_mgL_ICAL16347.m
Quant Title : herb
QLast Update : Mon Dec 09 12:05:05 2019
Response via : Initial Calibration
Integrator: ChemStation

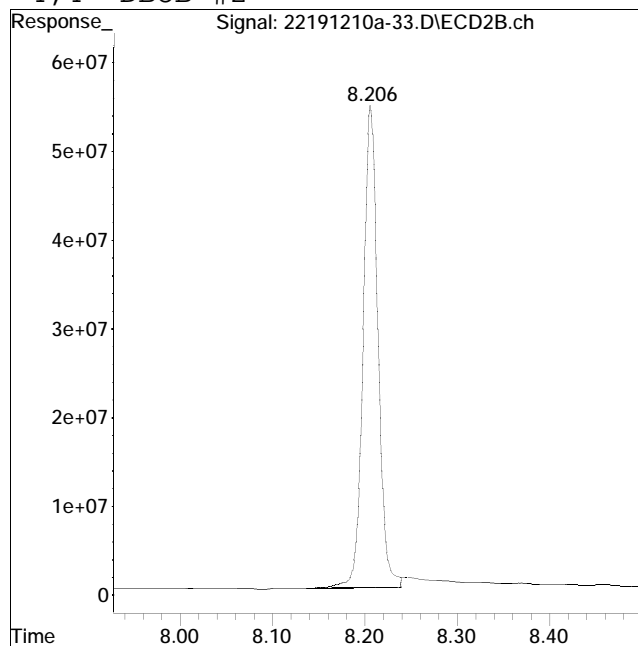
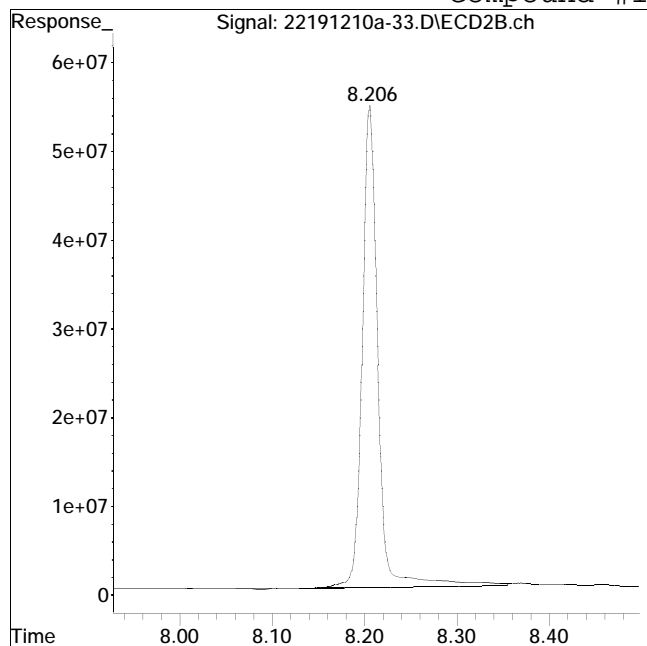
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest22\data\2019\191210QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191210a-33.D Operator : pest22:jmc
Date Inj'd : 12/10/2019 9:38 pm Instrument : Pest22
Sample : 11957339-10,42e,, t Quant Date : 12/11/2019 10:34 am

Compound #14: 4,4'-DBOB #2



Original Peak Response = 641562557

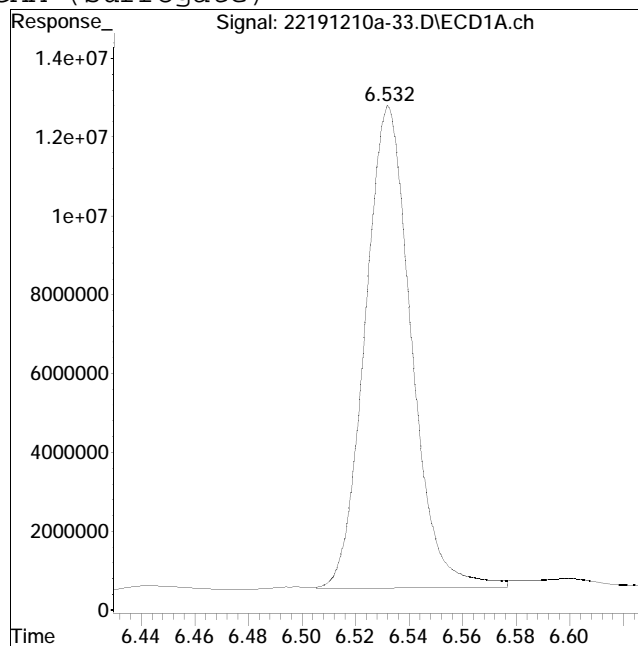
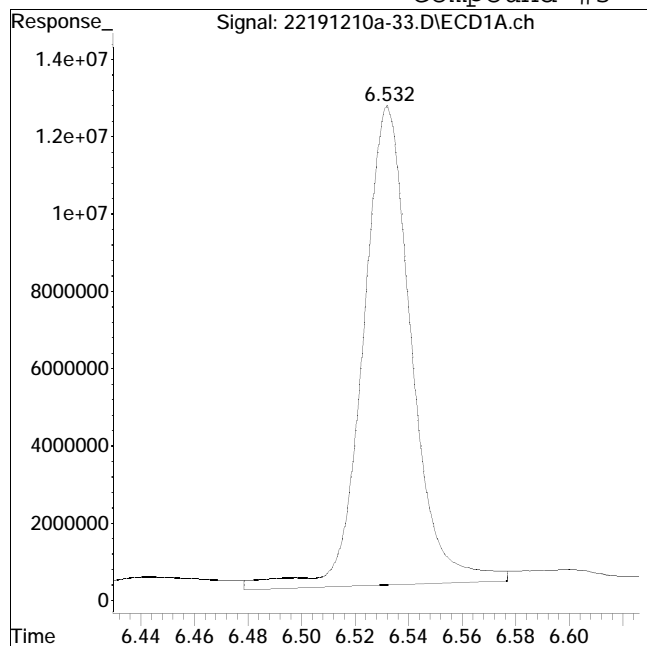
Manual Peak Response = 604297467 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191210QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191210a-33.D Operator : pest22:jmc
Date Inj'd : 12/10/2019 9:38 pm Instrument : Pest22
Sample : 11957339-10,42e,, t Quant Date : 12/11/2019 10:34 am

Compound #3: DCAA (surrogate)



Original Peak Response = 156365386

Manual Peak Response = 146483451 M4

M4 = Poor automated baseline construction.

Batch Quality Control

Method Blank Raw Data

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191202A\
 Data File : 17191202a-26.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Dec 2019 8:31 pm
 Operator : PEST17:dgm
 Sample : wg1314990-1,42e,,8151 5001 apa
 Misc : wg1315531,wg1314990,ical16100
 ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 03 11:29:09 2019
 Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191202A\17191202a-25.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.624	8.634	847.2E6	908.1E6	0.250	0.250
Standard Area 1 : #1 = 581370477					Recovery =	145.73%
Standard Area 1 : #2 = 617736738					Recovery =	147.01%
System Monitoring Compounds						
3) s DCAA (surrog	7.086	7.567	176.8E6	210.6E6	0.321	0.289
Spiked Amount	0.500	Range 30 - 150			Recovery =	64.20%
57.80%						
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t MCPA	0.000	0.000	0	0	N.D.	N.D.
7) t Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D. d	N.D.
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D.
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

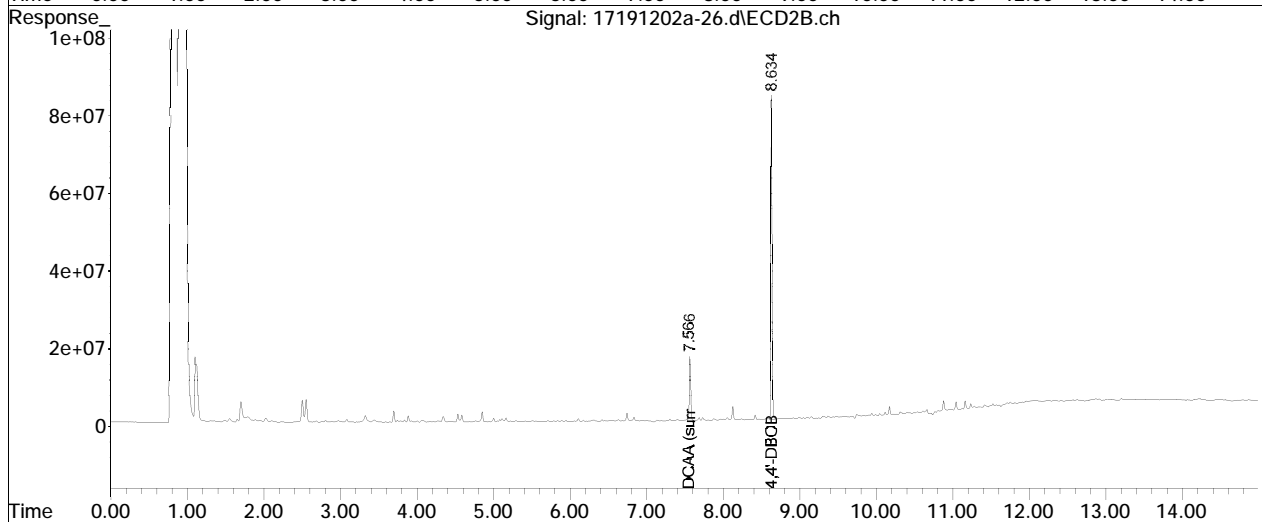
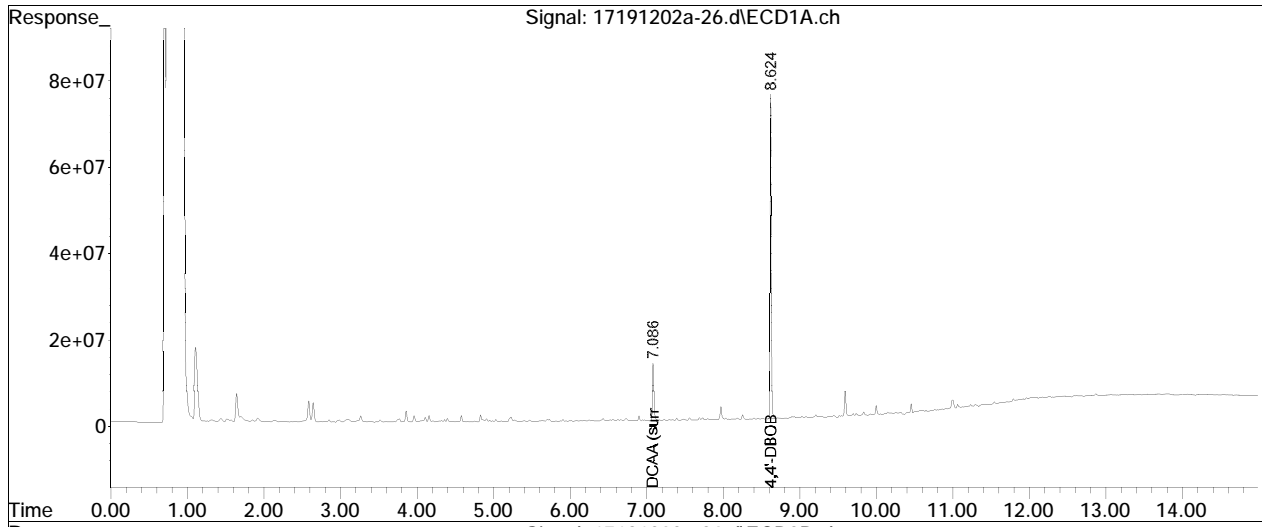
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed a-25.d••d)

Data Path : I:\Pest17\191202A\
Data File : 17191202a-26.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Dec 2019 8:31 pm
Operator : PEST17:dgm
Sample : wg1314990-1,42e,,8151 5001 apa
Misc : wg1315531,wg1314990,ical16100
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 11:29:09 2019
Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest17\191202A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191202a-26.d Operator : PEST17:dgm
Date Inj'd : 12/2/2019 8:31 pm Instrument : Pest 17
Sample : wg1314990-1,42e,,8151 5001 Quant Date : 12/3/2019 11:28 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191202A\
 Data File : 17191202a-80.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 3 Dec 2019 1:04 pm
 Operator : PEST17:jmc
 Sample : wg1315021-1,42e,, 20
 Misc : wg1315531,wg1315021,ical16100
 ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 03 20:08:39 2019
 Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191202A\17191202a-79.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.624	8.634	365.2E6	408.5E6	0.250	0.250
Standard Area 1 : #1 = 401397678					Recovery =	90.98%
Standard Area 1 : #2 = 436503268					Recovery =	93.59%
System Monitoring Compounds						
3) s DCAA (surrog	7.087	7.567	112.8E6	129.8E6	0.475	0.396
Spiked Amount	0.500	Range 30 - 150			Recovery =	95.00%
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D.	N.D. d
4) t Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t MCPP	0.000	0.000	0	0	N.D.	N.D. d
6) t MCPA	0.000	0.000	0	0	N.D.	N.D. d
7) t Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D.	N.D.
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

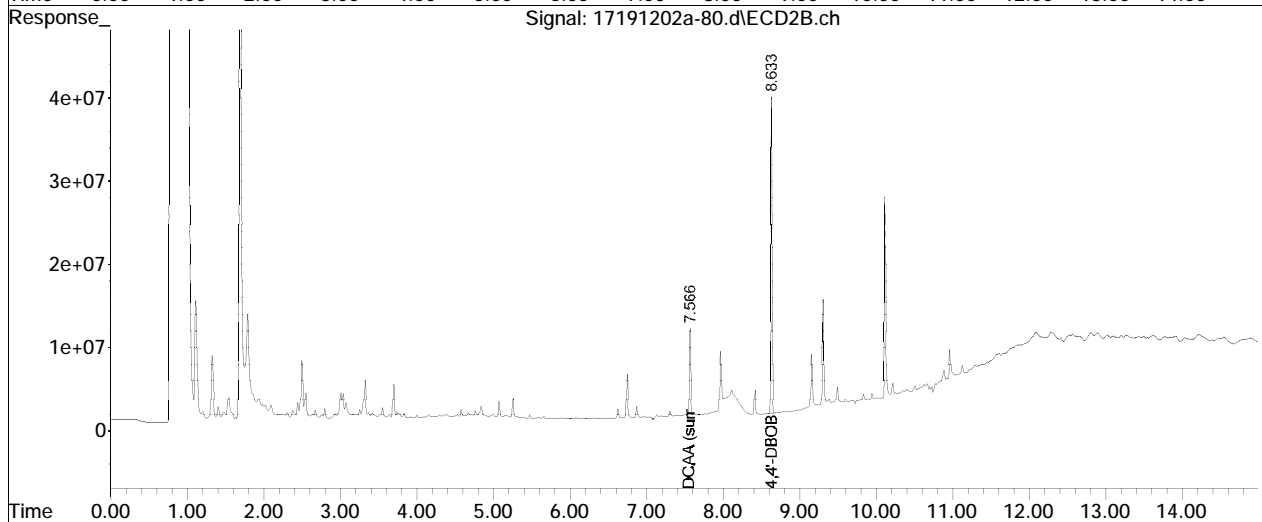
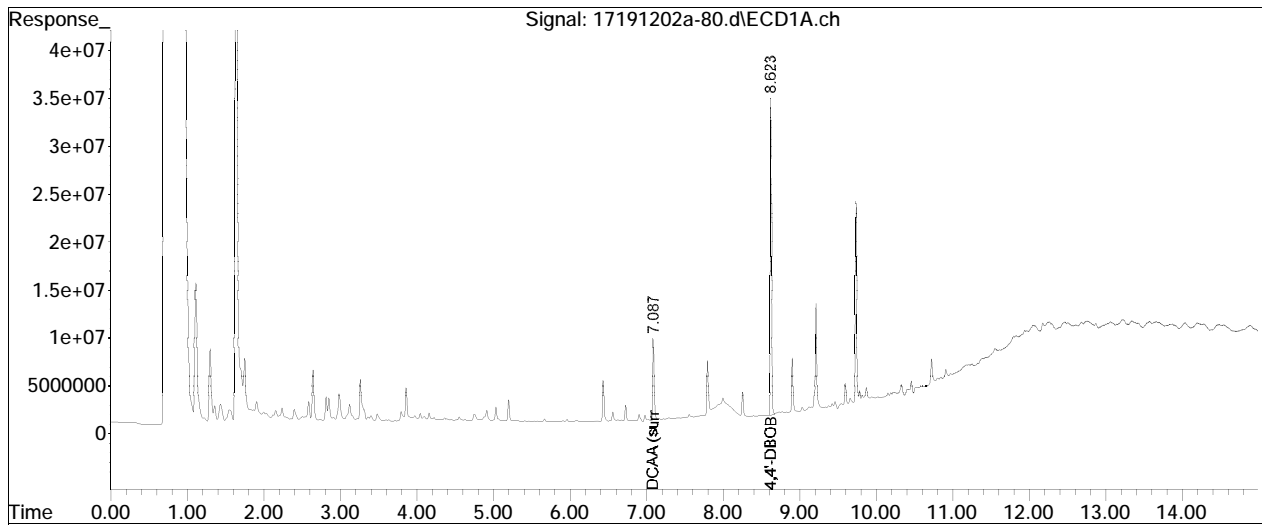
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coeluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed a-79.d••d)

Data Path : I:\Pest17\191202A\
Data File : 17191202a-80.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Dec 2019 1:04 pm
Operator : PEST17:jmc
Sample : wg1315021-1,42e,, 20
Misc : wg1315531,wg1315021,ical16100
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 20:08:39 2019
Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest17\191202A\ Data File	: 17191202a-80.d	QMethod	: Herb17_09_03_ICAL16100.m
Date Inj'd	: 12/3/2019 1:04 pm		Operator	: PEST17:jmc
Sample	: wg1315021-1,42e,, 20		Instrument	: Pest 17
			Quant Date	: 12/3/2019 8:07 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191203A\
 Data File : 17191203a-03.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 4 Dec 2019 12:07 am
 Operator : PEST17:dgm
 Sample : wg1315317-1,42e,,317 (Sig #1); wg1315261-1,42e,,317 (Sig #2)
 Misc : wg1316251,wg1315317,ical16100
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 04 11:11:58 2019
 Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191203A\17191203a-01.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.624	8.633	319.6E6	360.7E6	0.250M4	0.250
Standard Area 1 : #1 = 468332196					Recovery =	68.25%
Standard Area 1 : #2 = 505837689					Recovery =	71.30%
System Monitoring Compounds						
3) s DCAA (surrog	7.087	7.566	85489699	103.6E6	0.412M4	0.358
Spiked Amount	0.500	Range 30 - 150		Recovery =	82.40%	71.60%
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D.	N.D. d
4) t Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D.	N.D.
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D.
10) t 2,4,5-T	0.000	0.000	0	0	N.D. d	N.D.
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

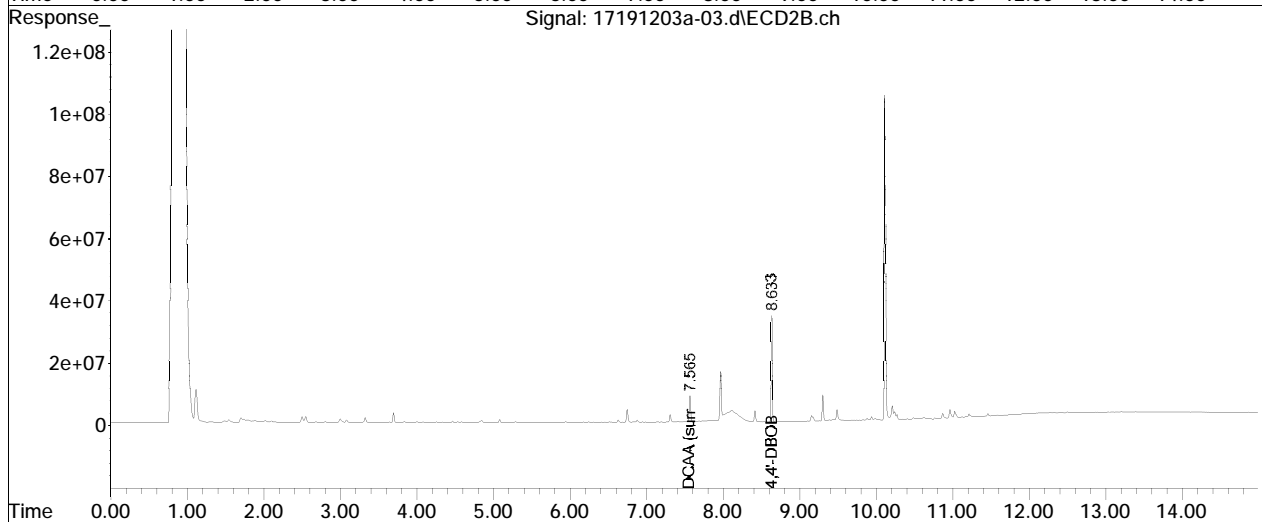
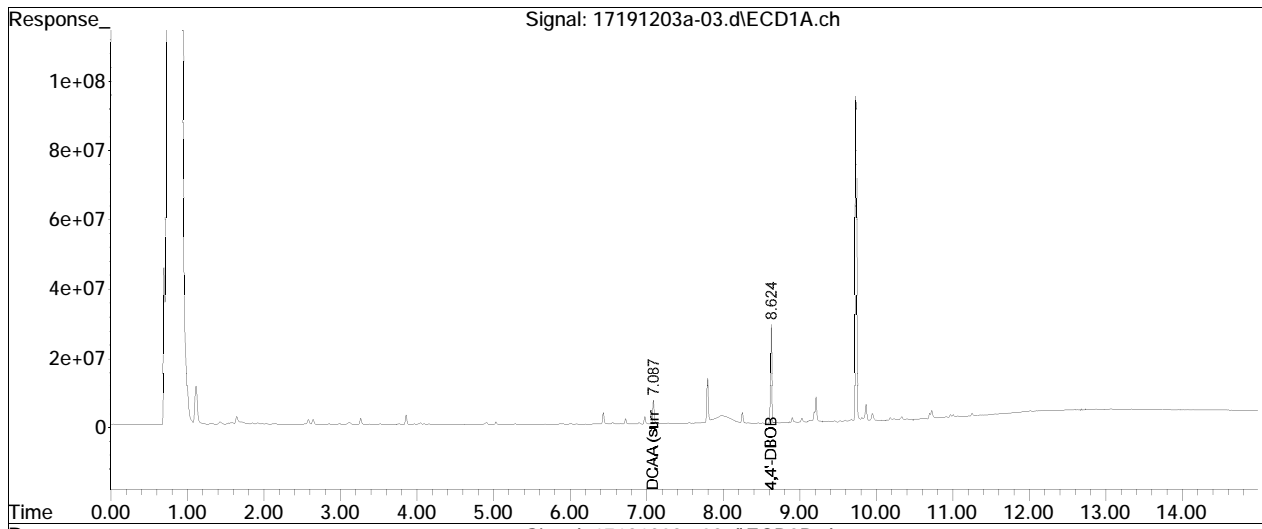
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda-01.d••d)

Data Path : I:\Pest17\191203A\
Data File : 17191203a-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2019 12:07 am
Operator : PEST17:dgm
Sample : wg1315317-1,42e,,317 (Sig #1); wg1315261-1,42e,,317 (Sig #2)
Misc : wg1316251,wg1315317,ical16100
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 11:11:58 2019
Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

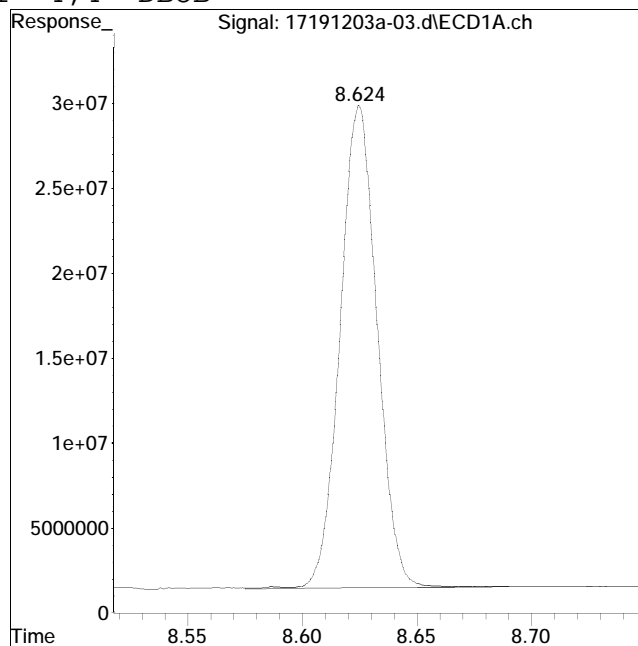
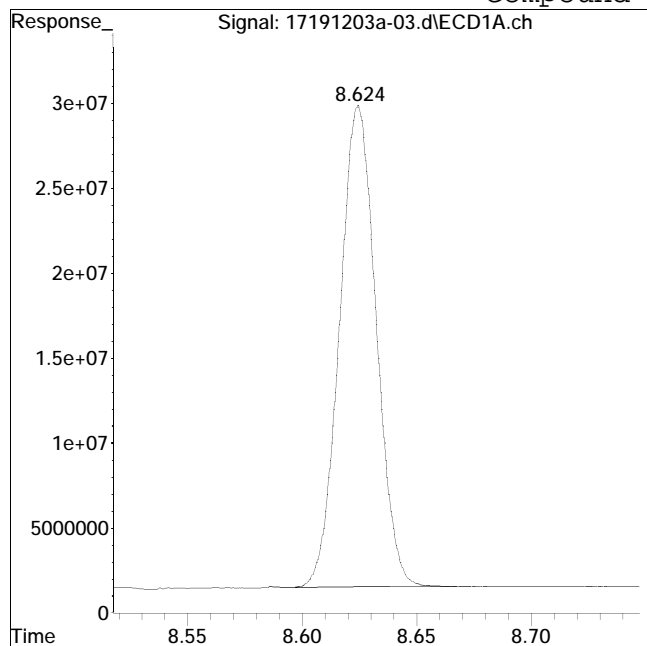


Manual Integration Report

Data Path : I:\Pest17\191203A\
Data File : 17191203a-03.d
Date Inj'd : 12/4/2019 12:07 am
Sample : wg1315317-1,42e,,317

QMethod : Herb17_09_03_ICAL16100.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 12/4/2019 11:10 am

Compound #1: 4,4'-DBOB



Original Peak Response = 315244388

Manual Peak Response = 319640026 M4

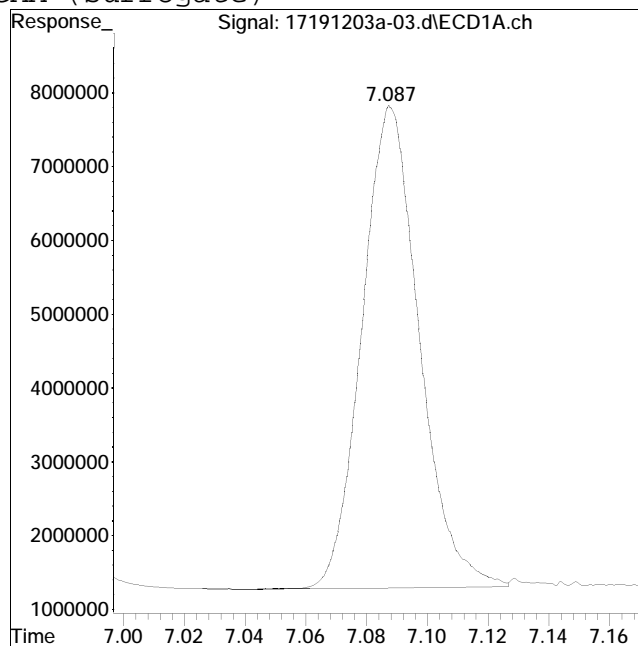
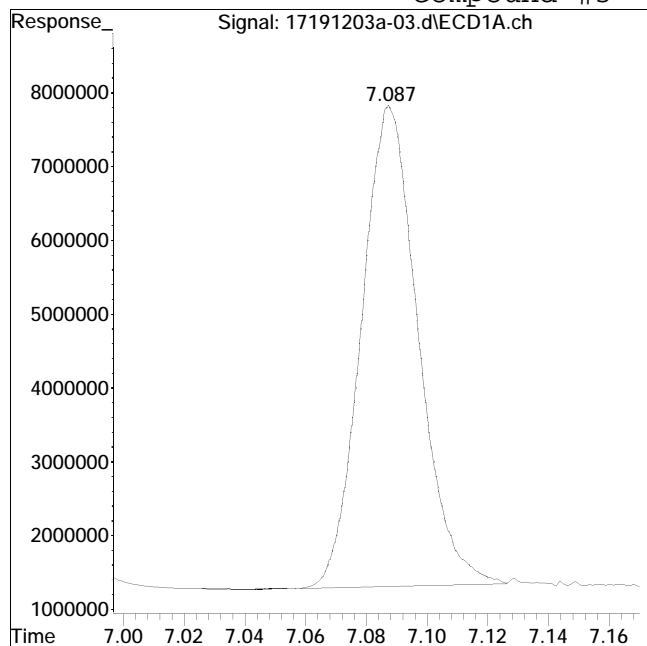
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191203A\
Data File : 17191203a-03.d
Date Inj'd : 12/4/2019 12:07 am
Sample : wg1315317-1,42e,,317

QMethod : Herb17_09_03_ICAL16100.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 12/4/2019 11:10 am

Compound #3: DCAA (surrogate)



Original Peak Response = 84471596

Manual Peak Response = 85489699 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191203A\
 Data File : 17191203a-43.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 4 Dec 2019 12:22 pm
 Operator : PEST17:tq
 Sample : wg1316102-1,42e,, apa 02 8151 (Sig #1); wg1316110-1,42e,, apa 02 8
 151 (Sig #2)
 Misc : wg1316251,wg1316102,ical16100
 ALS Vial : 88 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 04 14:04:54 2019
 Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191203A\17191203a-42.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.624	8.634	281.1E6	314.4E6	0.250	0.250
Standard Area 1 : #1 = 338543417					Recovery =	83.03%
Standard Area 1 : #2 = 367722415					Recovery =	85.50%
System Monitoring Compounds						
3) s DCAA (surrog	7.088	7.568	69131115	84463084	0.379	0.335
Spiked Amount	0.500	Range 30 - 150		Recovery =	75.80%	67.00%
Target Compounds						
2) t Dalapon	0.000	0.000	0	0	N.D.	N.D.
4) t Dicamba	0.000	0.000	0	0	N.D.	N.D.
5) t MCPP	0.000	0.000	0	0	N.D.	N.D.
6) t MCPA	0.000	0.000	0	0	N.D.	N.D.
7) t Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t 2,4-D	0.000	0.000	0	0	N.D.	N.D.
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D.
10) t 2,4,5-T	0.000	0.000	0	0	N.D.	N.D.
11) t 2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

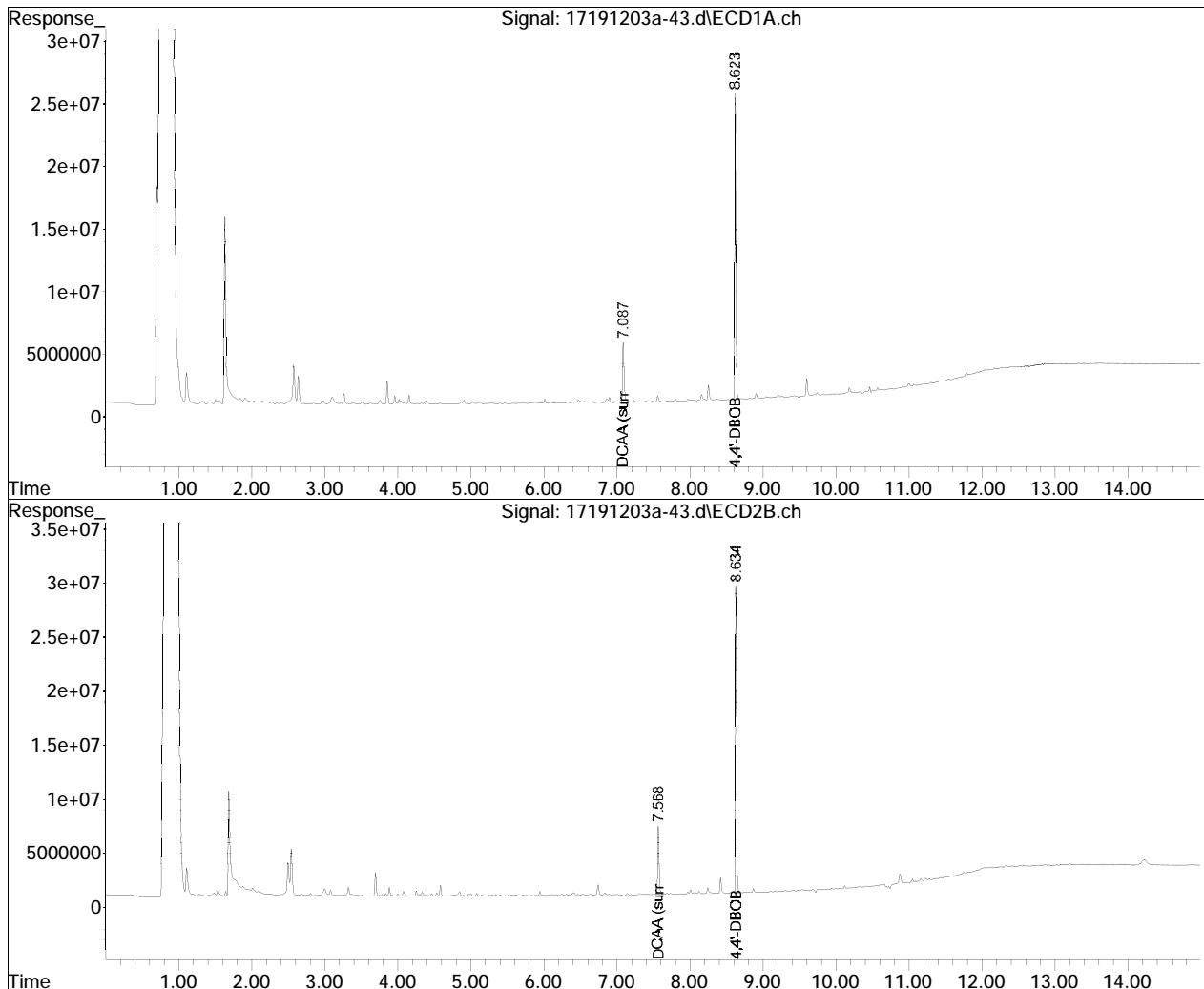
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed a-42.d••d)

Data Path : I:\Pest17\191203A\
Data File : 17191203a-43.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2019 12:22 pm
Operator : PEST17:tq
Sample : wg1316102-1,42e,, apa 02 8151 (Sig #1); wg1316110-1,42e,, apa 02 8
Misc : wg1316251,wg1316102,ical16100
ALS Vial : 88 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 14:04:54 2019
Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest17\191203A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191203a-43.d Operator : PEST17:tq
Date Inj'd : 12/4/2019 12:22 pm Instrument : Pest 17
Sample : wg1316102-1,42e,, apa 02 8Quant Date : 12/4/2019 12:54 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest22\data\2019\191210a\
 Data File : 22191210a-27.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 10 Dec 2019 07:48 pm
 Operator : pest22:jmc
 Sample : wg1316266-1,42e,, t
 Misc : wg1318866,wg1316266,ical16347
 ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 11 10:29:17 2019
 Quant Method : I:\Pest22\data\2019\191210a\Herb22_19_12_08_mgL_ICAL16347.m
 Quant Title : herb
 QLast Update : Mon Dec 09 12:05:05 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest22\data\2019\191210a\22191210a-26.D
 Sub List : HERB-TCLP - TCLP

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.077	8.206	602.6E6	535.7E6	0.250	0.250
Standard Area 1 : #1 = 568807420					Recovery = 105.93%	
Standard Area 1 : #2 = 511525609					Recovery = 104.73%	
System Monitoring Compounds						
3) s DCAA (surrog	6.532	7.132	137.5E6	130.0E6	0.352M4	0.323
Spiked Amount	0.500	Range 30 - 150			Recovery = 70.40%	64.60%
Target Compounds						
8) t 2,4-D	0.000	0.000	0	0	N.D.	N.D.
9) t 2,4,5-TP (Si	0.000	0.000	0	0	N.D.	N.D.
SemiQuant Compounds - Not Calibrated on this Instrument						

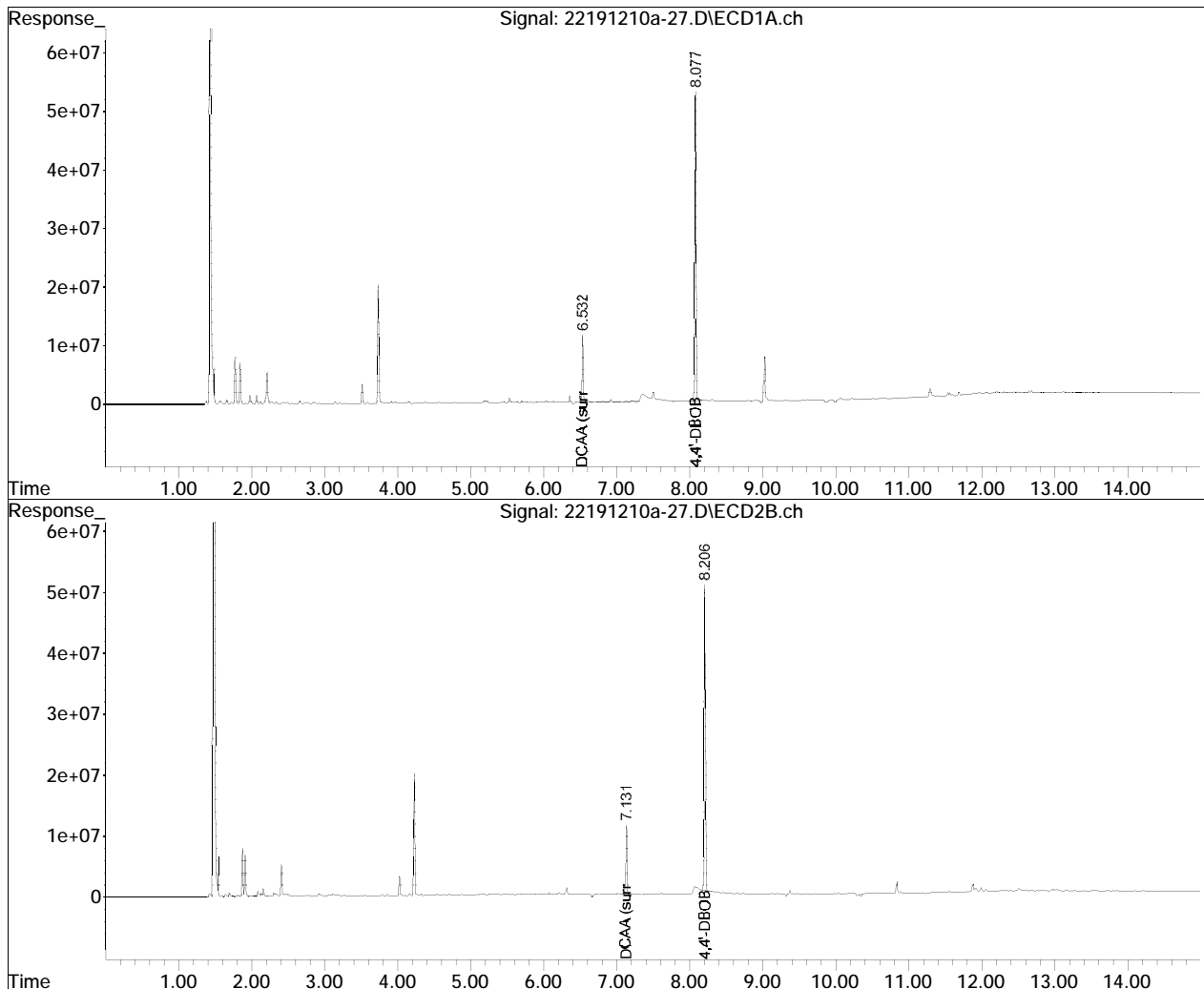
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coeluting Calibration Peak, F=Fails CC Criteria.

Sub List : HERB-TCLP - TCLPta\2019\191210a\22191210a-26.D••

Data Path : I:\Pest22\data\2019\191210a\
Data File : 22191210a-27.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Dec 2019 07:48 pm
Operator : pest22:jmc
Sample : wg1316266-1,42e,, t
Misc : wg1318866,wg1316266,ical16347
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 11 10:29:17 2019
Quant Method : I:\Pest22\data\2019\191210a\Herb22_19_12_08_mgL_ICAL16347.m
Quant Title : herb
QLast Update : Mon Dec 09 12:05:05 2019
Response via : Initial Calibration
Integrator: ChemStation

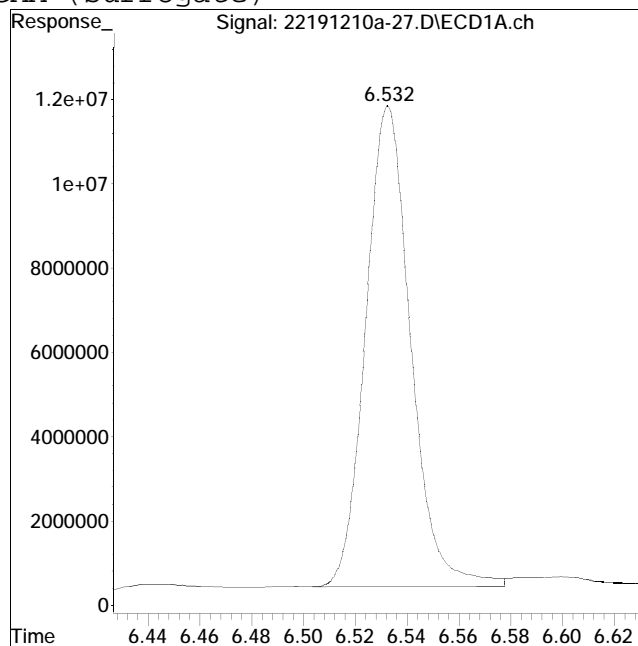
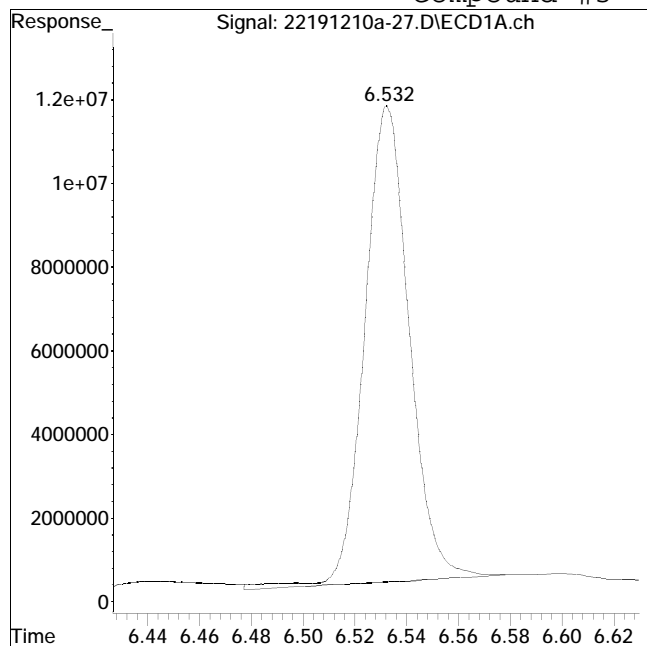
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest22\data\2019\191210QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191210a-27.D Operator : pest22:jmc
Date Inj'd : 12/10/2019 7:48 pm Instrument : Pest22
Sample : wg1316266-1,42e,, t Quant Date : 12/11/2019 10:29 am

Compound #3: DCAA (surrogate)



Original Peak Response = 136415082

Manual Peak Response = 137520855 M4

M4 = Poor automated baseline construction.

LCS Raw Data

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191202A\
 Data File : 17191202a-27.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Dec 2019 8:49 pm
 Operator : PEST17:dgm
 Sample : wg1314990-2,42e,,8151 5001 apa
 Misc : wg1315531,wg1314990,ical16100
 ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 03 11:30:34 2019
 Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191202A\17191202a-25.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.624	8.634	897.5E6	940.5E6	0.250	0.250
Standard Area 1 : #1 = 581370477					Recovery =	154.37%
Standard Area 1 : #2 = 617736738					Recovery =	152.26%
System Monitoring Compounds						
3) s DCAA (surrog	7.085	7.566	178.7E6	225.1E6	0.307	0.299
Spiked Amount	0.500	Range 30 - 150			Recovery =	61.40%
59.80%						
Target Compounds						
2) t Dalapon	2.059	2.124	172.1E6	199.1E6	0.341	0.336
4) t Dicamba	7.270	7.749	561.0E6	639.4E6	0.317	0.301
5) t MCPPP	7.471	7.859	87806212	94725540	37.462	31.869
6) t MCPA	7.619	8.087	110.1E6	134.2E6	29.442	29.300
7) t Dichloroprop	7.973	8.404	209.6E6	211.6E6	0.428	0.352
8) t 2,4-D	8.186	8.678	219.7E6	252.6E6	0.331	0.302
9) t 2,4,5-TP (Si	8.897	9.334	799.5E6	918.8E6	0.316	0.345
10) t 2,4,5-T	9.113	9.621	818.0E6	944.3E6	0.307M4	0.350
11) t 2,4-DB	9.516f	9.981	131.2E6	158.3E6	0.300	0.330

SemiQuant Compounds - Not Calibrated on this Instrument

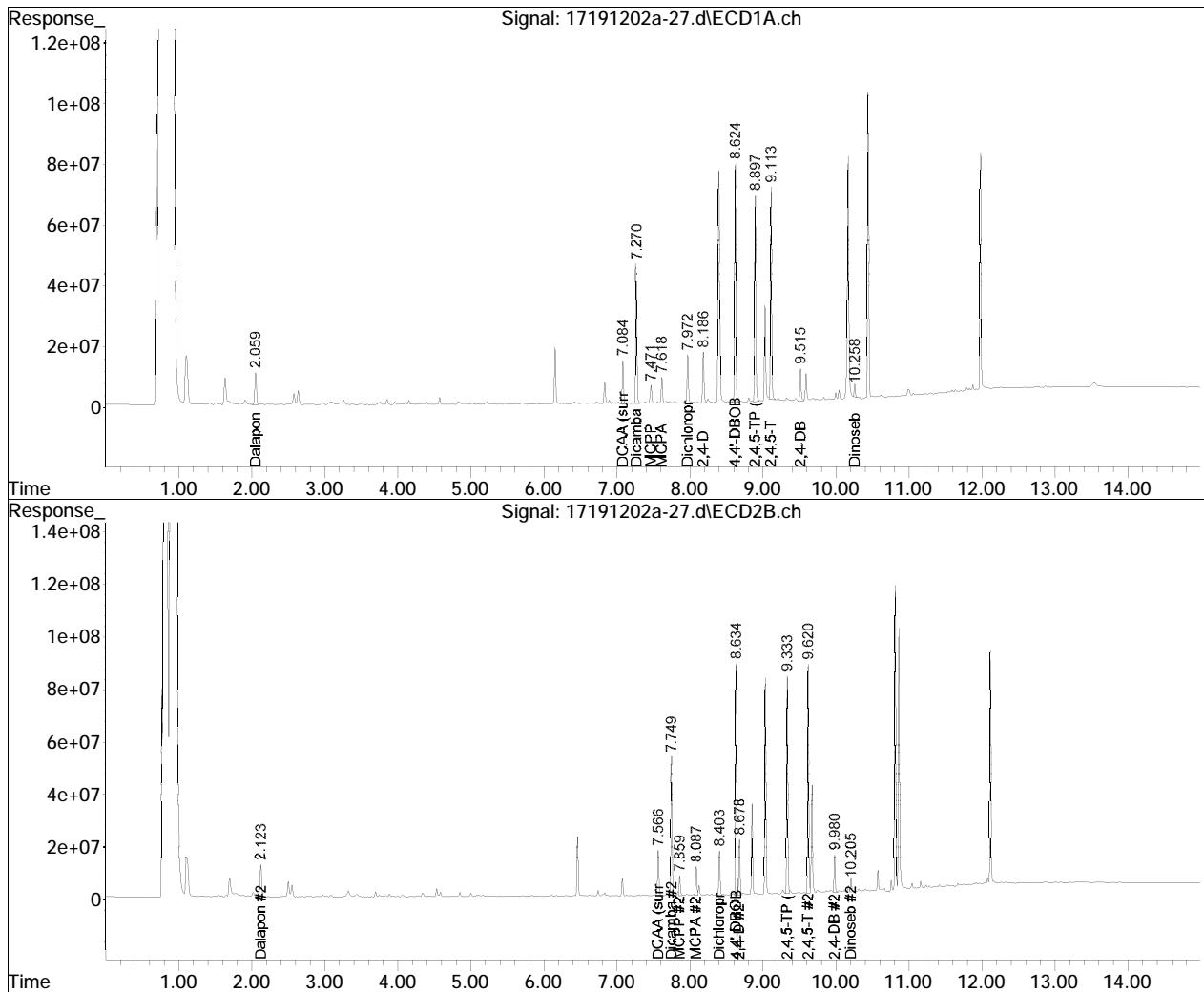
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed a-25.d••d)

Data Path : I:\Pest17\191202A\
Data File : 17191202a-27.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Dec 2019 8:49 pm
Operator : PEST17:dgm
Sample : wg1314990-2,42e,,8151 5001 apa
Misc : wg1315531,wg1314990,ical16100
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 11:30:34 2019
Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

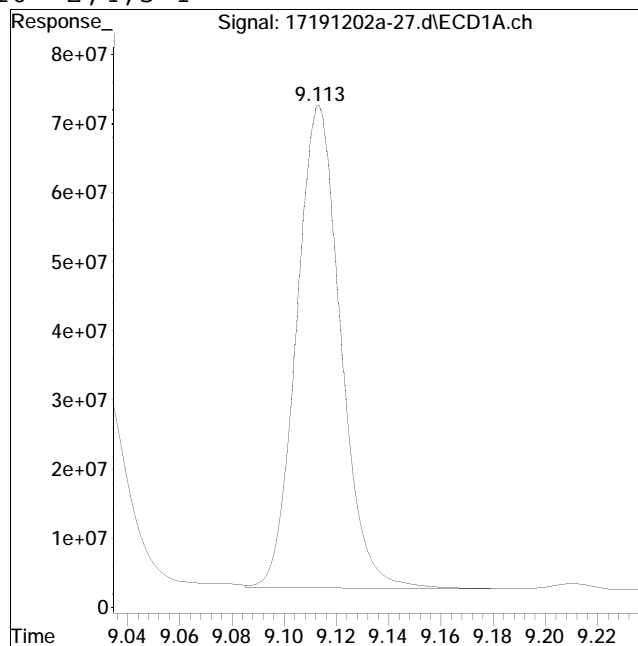
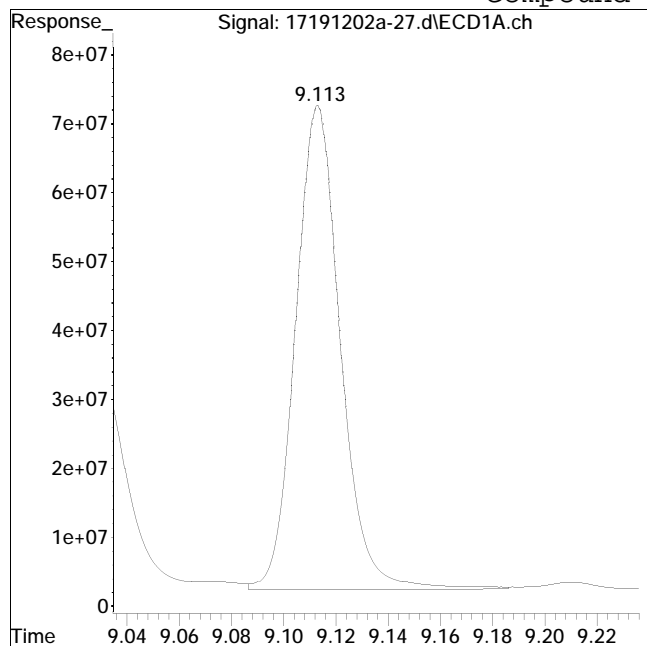
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest17\191202A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191202a-27.d Operator : PEST17:dgm
Date Inj'd : 12/2/2019 8:49 pm Instrument : Pest 17
Sample : wg1314990-2,42e,,8151 5001 Quant Date : 12/3/2019 11:29 am

Compound #10: 2,4,5-T



Original Peak Response = 839910114

Manual Peak Response = 818020851 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191202A\
 Data File : 17191202a-81.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 3 Dec 2019 1:22 pm
 Operator : PEST17:jmc
 Sample : wg1315021-2,42e,, 20
 Misc : wg1315531,wg1315021,ical16100
 ALS Vial : 81 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 03 20:10:04 2019
 Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191202A\17191202a-79.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.623	8.633	320.4E6	353.3E6	0.250	0.250
Standard Area 1 : #1 = 401397678					Recovery =	79.81%
Standard Area 1 : #2 = 436503268					Recovery =	80.94%
System Monitoring Compounds						
3) s DCAA (surrog	7.085	7.566	100.8E6	128.5E6	0.484	0.454
Spiked Amount	0.500	Range 30 - 150			Recovery =	96.80%
Target Compounds						
2) t Dalapon	2.052	2.118	91665620	114.1E6	0.510M4	0.513M4
4) t Dicamba	7.270	7.749	306.8E6	358.2E6	0.485	0.449
5) t MCPP	7.471	7.859	47194819	54389234	56.410	48.710
6) t MCPA	7.618	8.086	68801541	92808586	60.050	53.923M4
7) t Dichloroprop	7.973	8.403	98449451	137.9E6	0.589M4	0.634
8) t 2,4-D	8.186	8.678	124.7E6	144.0E6	0.527	0.459
9) t 2,4,5-TP (Si	8.897	9.333	458.4E6	524.1E6	0.507	0.526
10) t 2,4,5-T	9.113	9.621	440.8E6	539.9E6	0.463	0.533
11) t 2,4-DB	9.517	9.981	72723607	84127685	0.465	0.466
12) t Dinoseb	10.258	10.205	228.8E6	257.6E6	0.635	0.715

SemiQuant Compounds - Not Calibrated on this Instrument

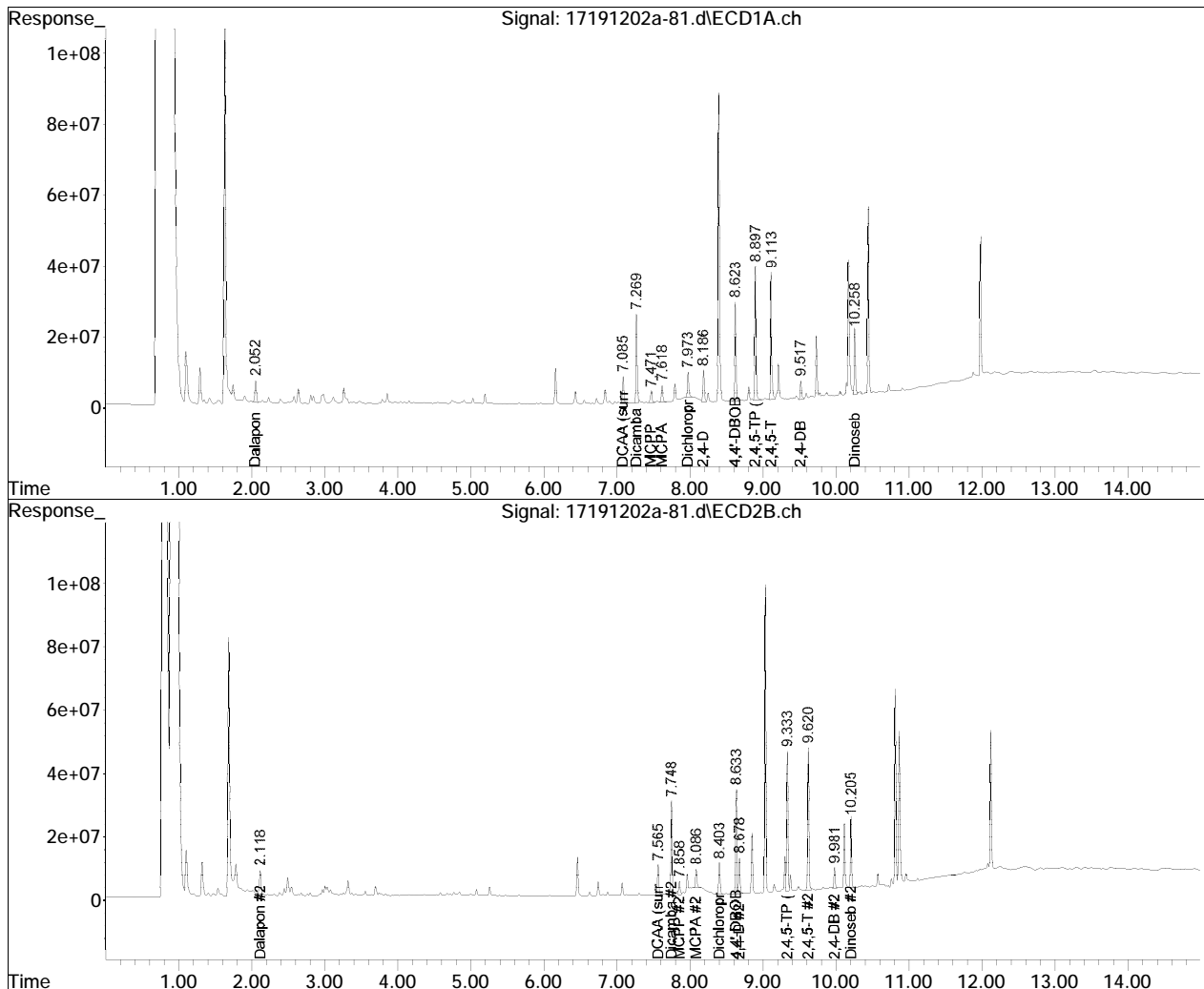
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed a-79.d••d)

Data Path : I:\Pest17\191202A\
Data File : 17191202a-81.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Dec 2019 1:22 pm
Operator : PEST17:jmc
Sample : wg1315021-2,42e,, 20
Misc : wg1315531,wg1315021,ical16100
ALS Vial : 81 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 20:10:04 2019
Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

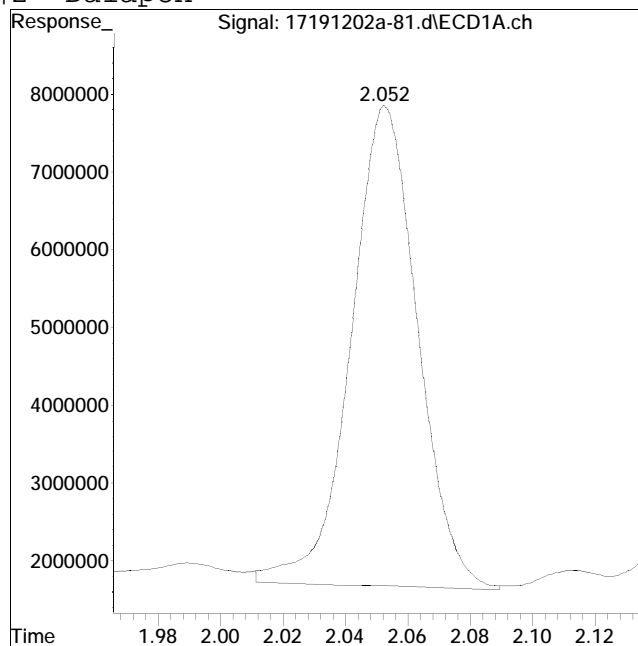
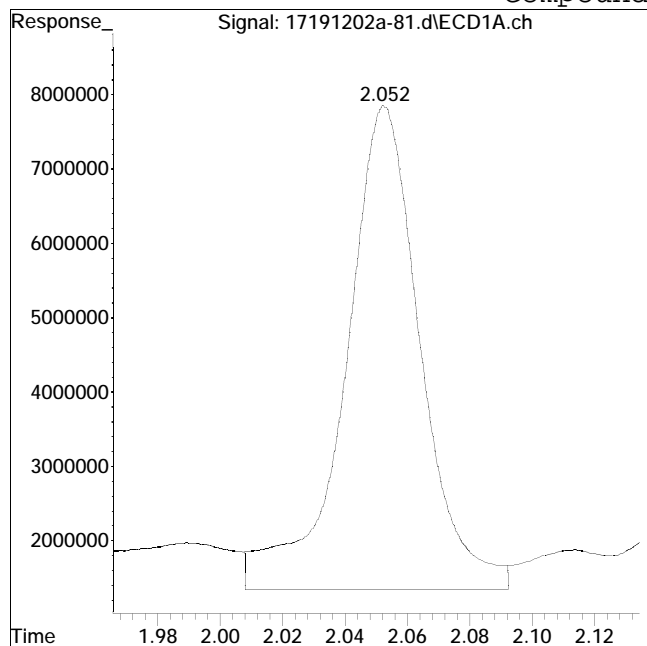


Manual Integration Report

Data Path : I:\Pest17\191202A\
Data File : 17191202a-81.d
Date Inj'd : 12/3/2019 1:22 pm
Sample : wg1315021-2,42e,, 20

QMethod : Herb17_09_03_ICAL16100.m
Operator : PEST17:jmc
Instrument : Pest 17
Quant Date : 12/3/2019 8:08 pm

Compound #2: Dalapon



Original Peak Response = 109101891

Manual Peak Response = 91665620 M4

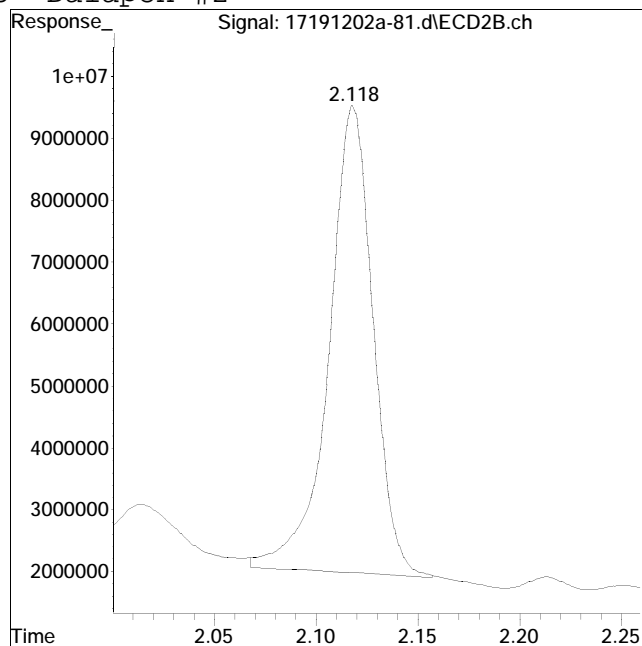
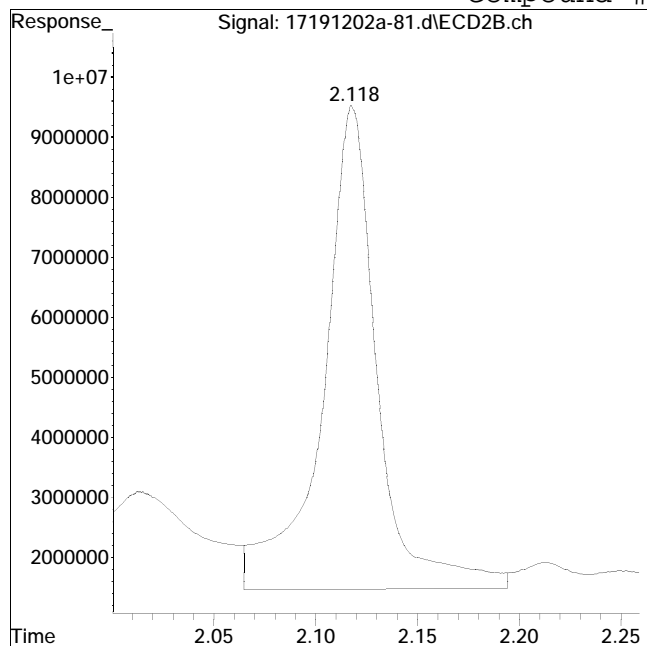
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191202A\
Data File : 17191202a-81.d
Date Inj'd : 12/3/2019 1:22 pm
Sample : wg1315021-2,42e,, 20

QMethod : Herb17_09_03_ICAL16100.m
Operator : PEST17:jmc
Instrument : Pest 17
Quant Date : 12/3/2019 8:08 pm

Compound #15: Dalapon #2



Original Peak Response = 150636351

Manual Peak Response = 114109916 M4

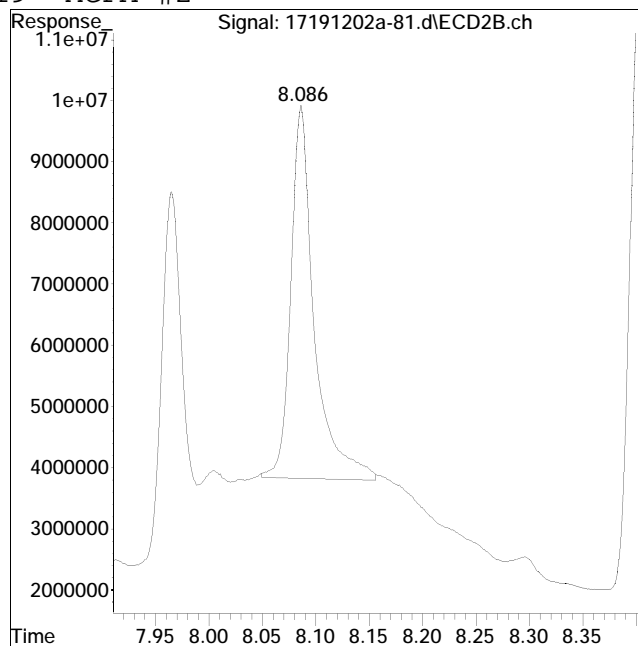
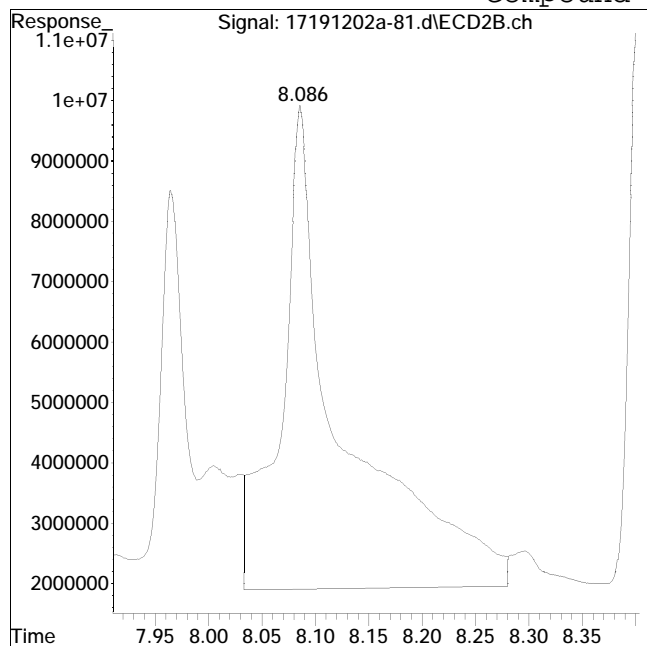
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191202A\
Data File : 17191202a-81.d
Date Inj'd : 12/3/2019 1:22 pm
Sample : wg1315021-2,42e,, 20

QMethod : Herb17_09_03_ICAL16100.m
Operator : PEST17:jmc
Instrument : Pest 17
Quant Date : 12/3/2019 8:08 pm

Compound #19: MCPA #2



Original Peak Response = 322892830

Manual Peak Response = 92808586 M4

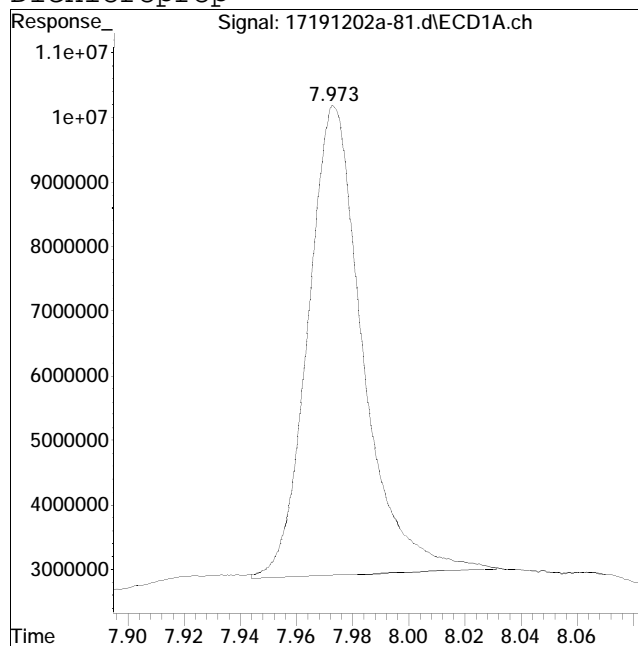
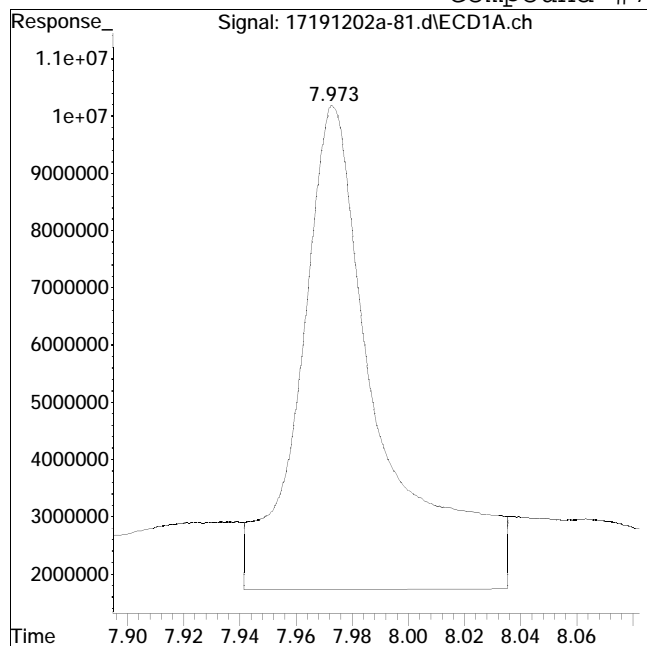
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191202A\
Data File : 17191202a-81.d
Date Inj'd : 12/3/2019 1:22 pm
Sample : wg1315021-2,42e,, 20

QMethod : Herb17_09_03_ICAL16100.m
Operator : PEST17:jmc
Instrument : Pest 17
Quant Date : 12/3/2019 8:08 pm

Compound #7: Dichloroprop



Original Peak Response = 166191909

Manual Peak Response = 98449451 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191203A\
 Data File : 17191203a-04.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 4 Dec 2019 12:25 am
 Operator : PEST17:dgm
 Sample : wg1315317-2,42e,,317 (Sig #1); wg1315261-2,42e,,317 (Sig #2)
 Misc : wg1316251,wg1315317,icall16100
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 04 11:13:55 2019
 Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191203A\17191203a-01.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.624	8.633	254.0E6	280.8E6	0.250	0.250
Standard Area 1 : #1 = 468332196					Recovery =	54.25%
Standard Area 1 : #2 = 505837689					Recovery =	55.51%
System Monitoring Compounds						
3) s DCAA (surrog	7.086	7.566	67215128	86084143	0.407	0.383
Spiked Amount	0.500	Range 30	- 150	Recovery =	81.40%	76.60%
Target Compounds						
2) t Dalapon	2.056	2.120	61967002	80008470	0.434	0.453
4) t Dicamba	7.271	7.749	200.1E6	232.2E6	0.399	0.366
5) t MCPP	7.472	7.858	33401344	31613210	50.343	35.623
6) t MCPA	7.619	8.086	45247745	56940708	47.863	41.626M4
7) t Dichloroprop	7.975	8.403	65055683	90086441	0.478M4	0.515
8) t 2,4-D	8.190	8.680	74777495	96645859	0.398	0.388
9) t 2,4,5-TP (Si	8.899	9.334	276.0E6	337.9E6	0.385	0.426
10) t 2,4,5-T	9.116	9.622	293.3E6	337.6E6	0.388	0.419
11) t 2,4-DB	9.520	9.983	47574667	57552838	0.384	0.401

SemiQuant Compounds - Not Calibrated on this Instrument

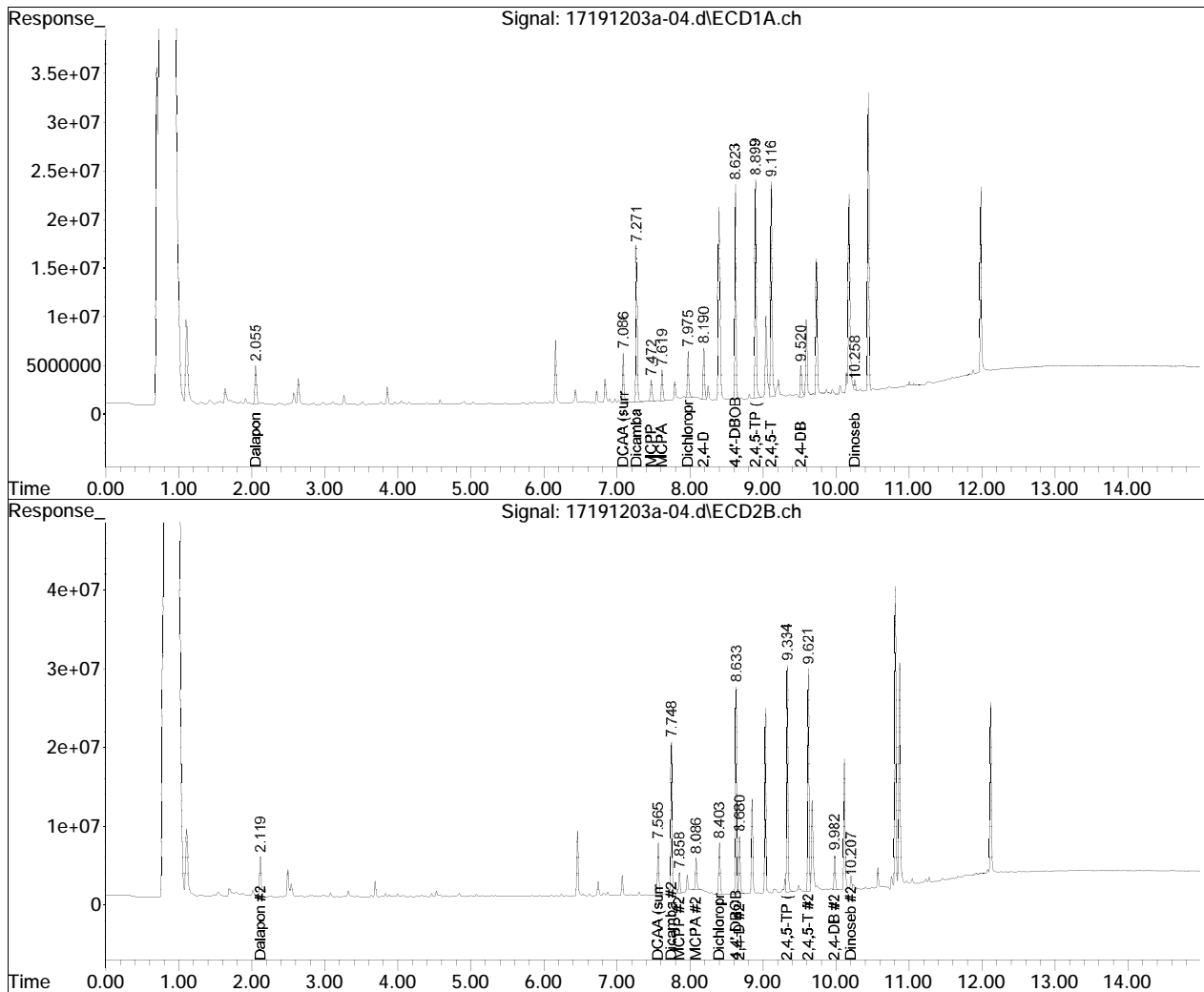
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed a-01.d••d)

Data Path : I:\Pest17\191203A\
Data File : 17191203a-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2019 12:25 am
Operator : PEST17:dgm
Sample : wg1315317-2,42e,,317 (Sig #1); wg1315261-2,42e,,317 (Sig #2)
Misc : wg1316251,wg1315317,ical16100
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 11:13:55 2019
Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

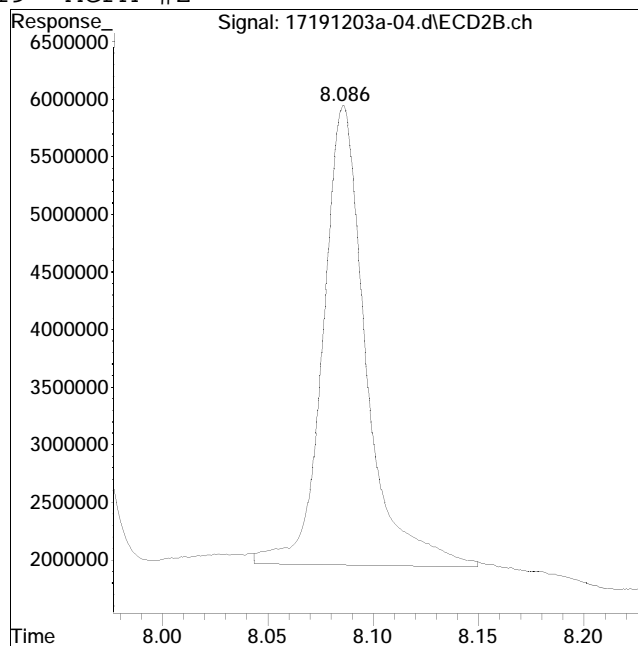
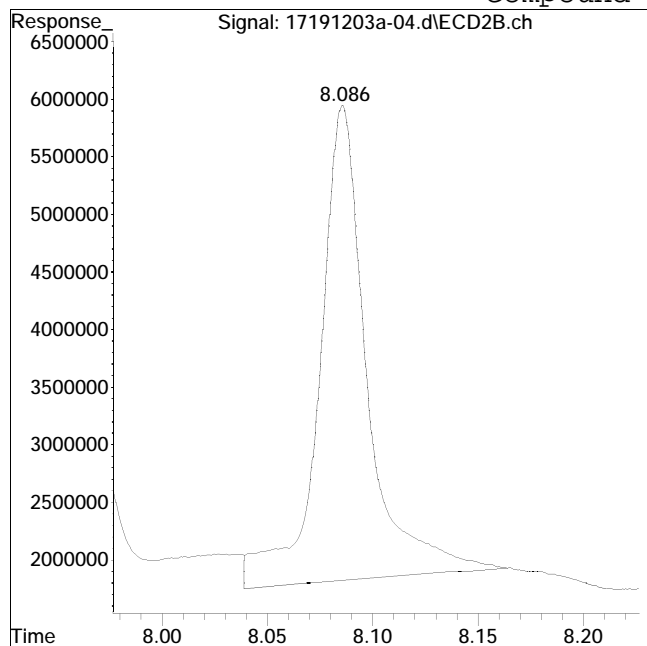


Manual Integration Report

Data Path : I:\Pest17\191203A\
Data File : 17191203a-04.d
Date Inj'd : 12/4/2019 12:25 am
Sample : wg1315317-2,42e,,317

QMethod : Herb17_09_03_ICAL16100.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 12/4/2019 11:12 am

Compound #19: MCPA #2



Original Peak Response = 65442024

Manual Peak Response = 56940708 M4

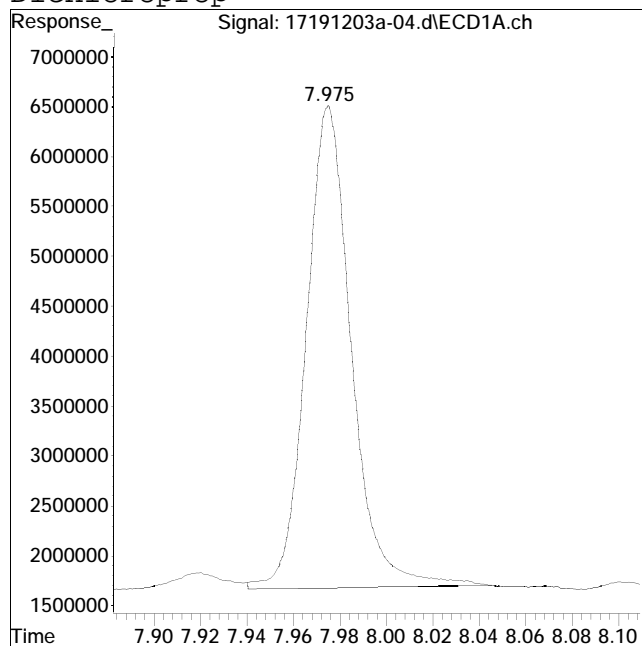
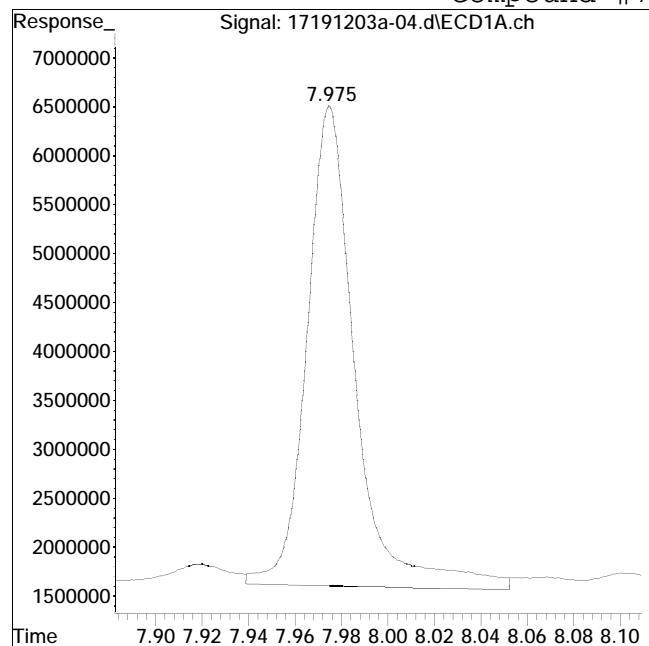
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191203A\
Data File : 17191203a-04.d
Date Inj'd : 12/4/2019 12:25 am
Sample : wg1315317-2,42e,,317

QMethod : Herb17_09_03_ICAL16100.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 12/4/2019 11:12 am

Compound #7: Dichloroprop



Original Peak Response = 71237729

Manual Peak Response = 65055683 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191203A\
 Data File : 17191203a-44.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 4 Dec 2019 12:40 pm
 Operator : PEST17:tq
 Sample : wg1316102-2,42e,, apa 02 8151 (Sig #1); wg1316110-2,42e,, apa 02 8
 151 (Sig #2)
 Misc : wg1316251,wg1316102,ical16100
 ALS Vial : 89 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 04 14:06:35 2019
 Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191203A\17191203a-42.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.623	8.634	278.1E6	303.9E6	0.250	0.250
Standard Area 1 : #1 = 338506131					Recovery =	82.15%
Standard Area 1 : #2 = 367722415					Recovery =	82.64%
System Monitoring Compounds						
3) s DCAA (surrog	7.086	7.566	68378386	89866716	0.379	0.369
Spiked Amount	0.500	Range 30	- 150	Recovery =	75.80%	73.80%
Target Compounds						
2) t Dalapon	2.050	2.116	61530507	71553662	0.394	0.374
4) t Dicamba	7.271	7.749	212.8E6	254.5E6	0.387	0.371
5) t MCPP	7.471	7.859	36619448	36887287	50.426	38.411
6) t MCPA	7.618	8.087	49834830	57388340	48.232	38.769
7) t Dichloroprop	7.975	8.405	71034679	97505371	0.476	0.515
8) t 2,4-D	8.192	8.682	83689643	107.6E6	0.407	0.399
9) t 2,4,5-TP (Si	8.900	9.335	294.6E6	357.0E6	0.375	0.416
10) t 2,4,5-T	9.118	9.624	314.0E6	362.9E6	0.380	0.416
11) t 2,4-DB	9.520	9.983	50055386	57776231	0.369	0.372
SemiQuant Compounds - Not Calibrated on this Instrument						

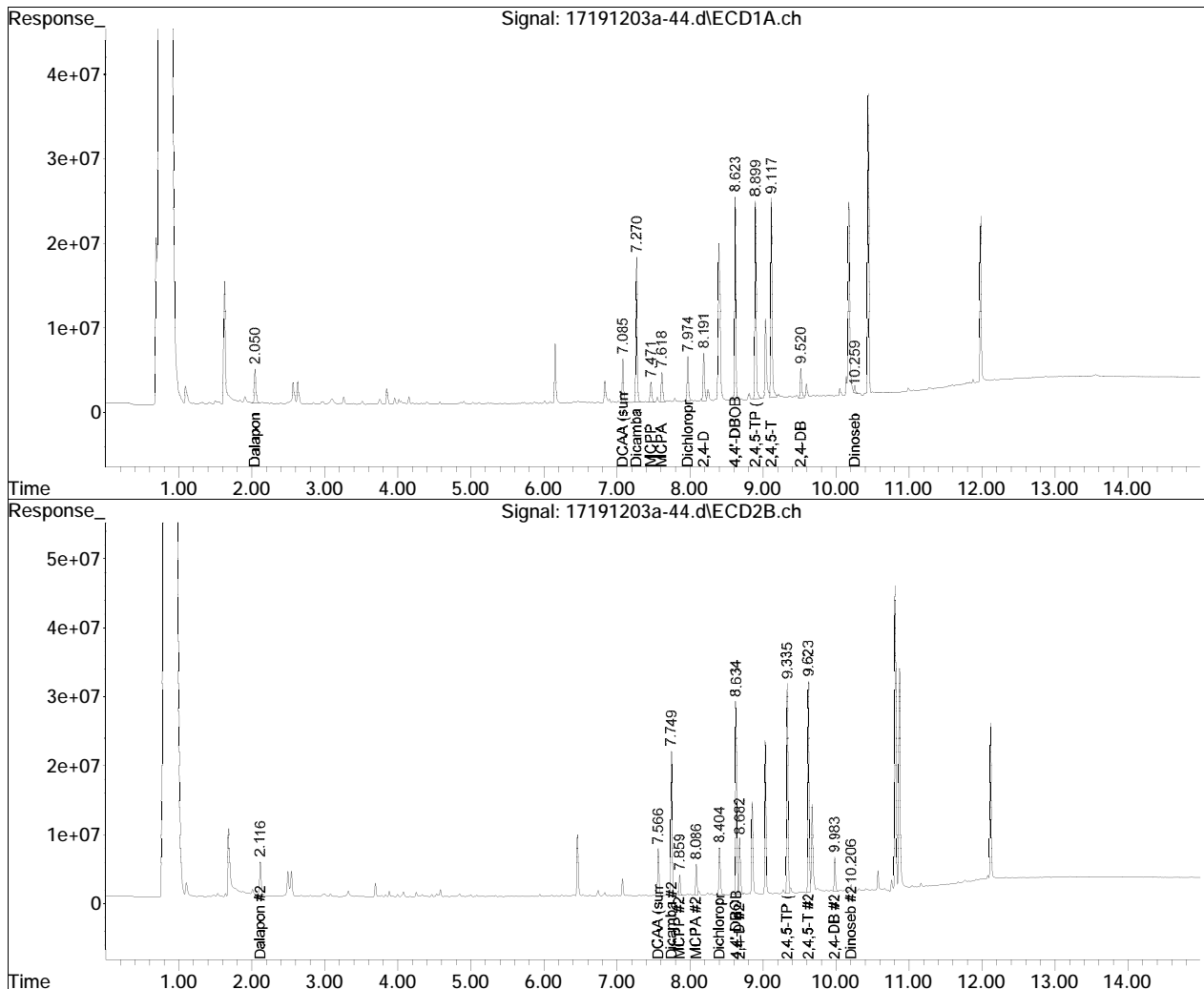
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed a-42.d••d)

Data Path : I:\Pest17\191203A\
Data File : 17191203a-44.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2019 12:40 pm
Operator : PEST17:tq
Sample : wg1316102-2,42e,, apa 02 8151 (Sig #1); wg1316110-2,42e,, apa 02 8
Misc : wg1316251,wg1316102,ical16100
ALS Vial : 89 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 14:06:35 2019
Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (QT Reviewed)

Data Path : I:\Pest22\data\2019\191210a\
 Data File : 22191210a-28.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 10 Dec 2019 08:06 pm
 Operator : pest22:jmc
 Sample : wg1316266-2,42e,, t
 Misc : wg1318866,wg1316266,ical16347
 ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 11 10:31:13 2019
 Quant Method : I:\Pest22\data\2019\191210a\Herb22_19_12_08_mgL_ICAL16347.m
 Quant Title : herb
 QLast Update : Mon Dec 09 12:05:05 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest22\data\2019\191210a\22191210a-26.D
 Sub List : HERB-TCLP - TCLP

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.076	8.206	646.8E6	614.6E6	0.250M4	0.250
Standard Area 1 : #1 = 568807420					Recovery =	113.70%
Standard Area 1 : #2 = 511525609					Recovery =	120.14%
System Monitoring Compounds						
3) s DCAA (surrog	6.531	7.132	172.2E6	253.5E6	0.410M4	0.550M3
Spiked Amount	0.500	Range 30 - 150			Recovery =	82.00% 110.00%
Target Compounds						
8) t 2,4-D	7.621	8.251	299.5E6	325.6E6	0.608	0.551
9) t 2,4,5-TP (Si	8.350	8.915	750.5E6	674.5E6	0.434	0.382M4
SemiQuant Compounds - Not Calibrated on this Instrument						

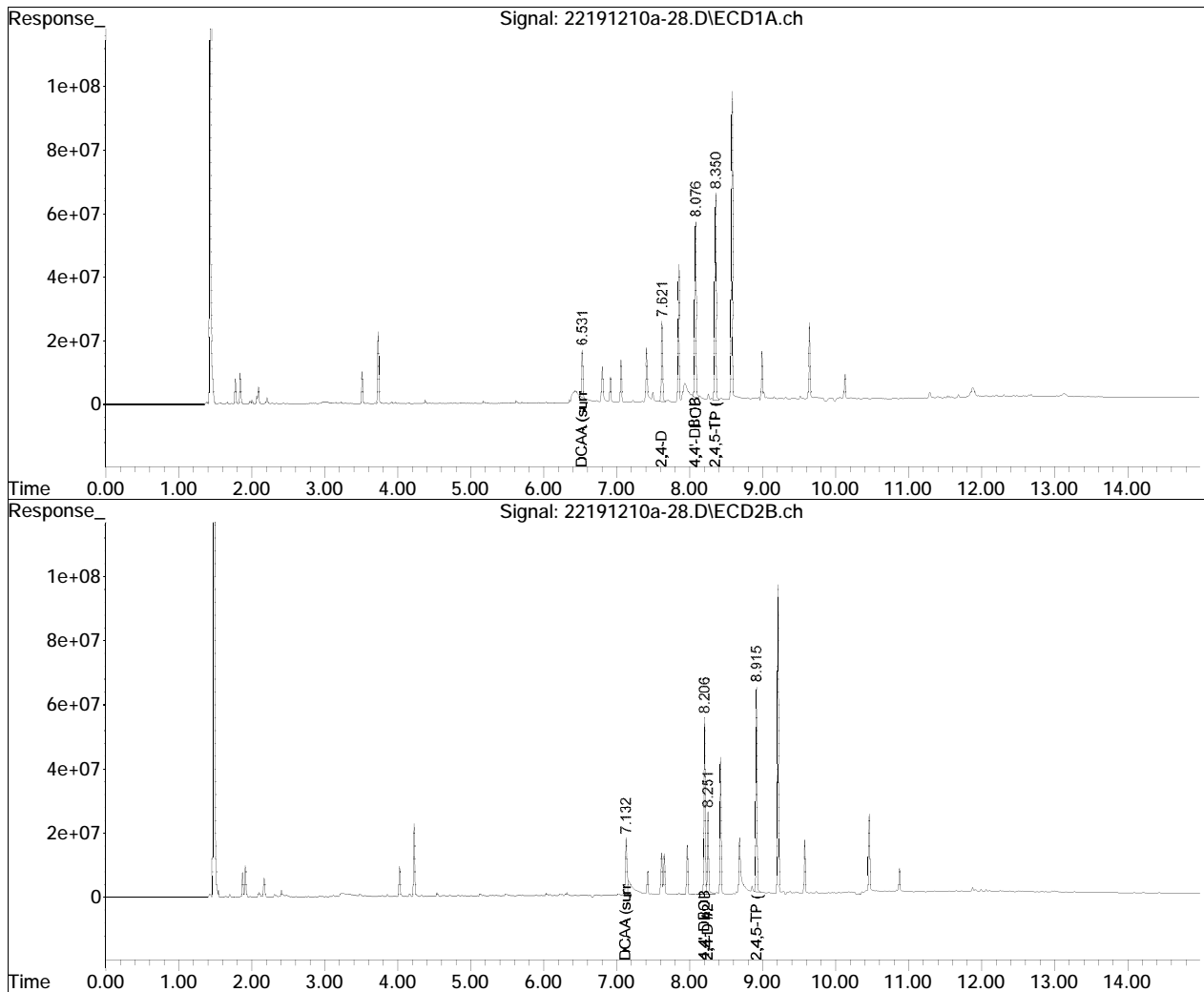
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : HERB-TCLP - TCLPta\2019\191210a\22191210a-26.D••

Data Path : I:\Pest22\data\2019\191210a\
Data File : 22191210a-28.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Dec 2019 08:06 pm
Operator : pest22:jmc
Sample : wg1316266-2,42e,, t
Misc : wg1318866,wg1316266,ical16347
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 11 10:31:13 2019
Quant Method : I:\Pest22\data\2019\191210a\Herb22_19_12_08_mgL_ICAL16347.m
Quant Title : herb
QLast Update : Mon Dec 09 12:05:05 2019
Response via : Initial Calibration
Integrator: ChemStation

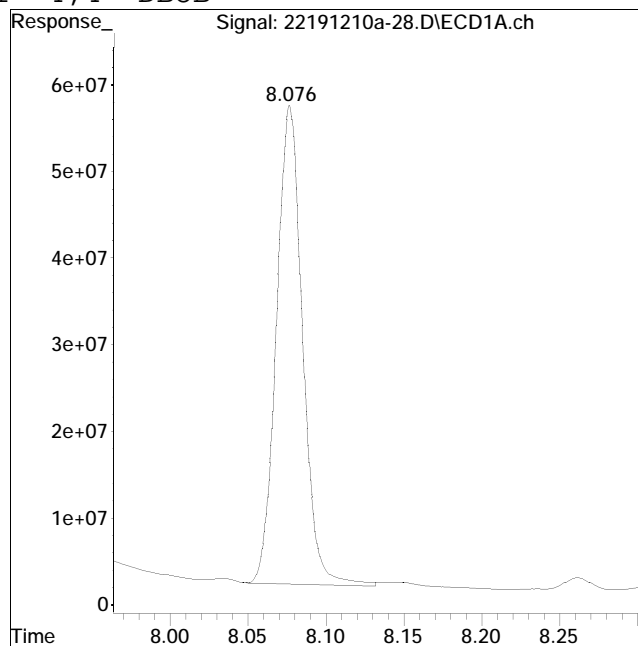
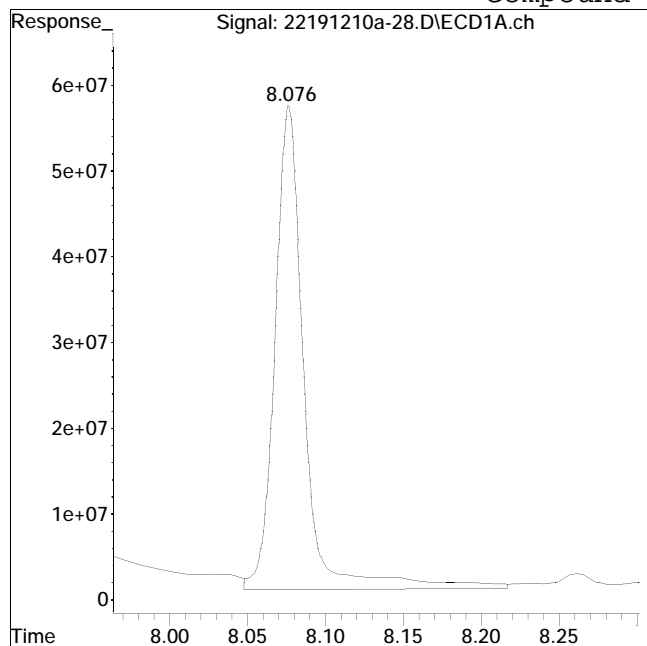
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest22\data\2019\191210QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191210a-28.D Operator : pest22:jmc
Date Inj'd : 12/10/2019 8:06 pm Instrument : Pest22
Sample : wg1316266-2,42e,, t Quant Date : 12/11/2019 10:30 am

Compound #1: 4,4'-DBOB



Original Peak Response = 743126682

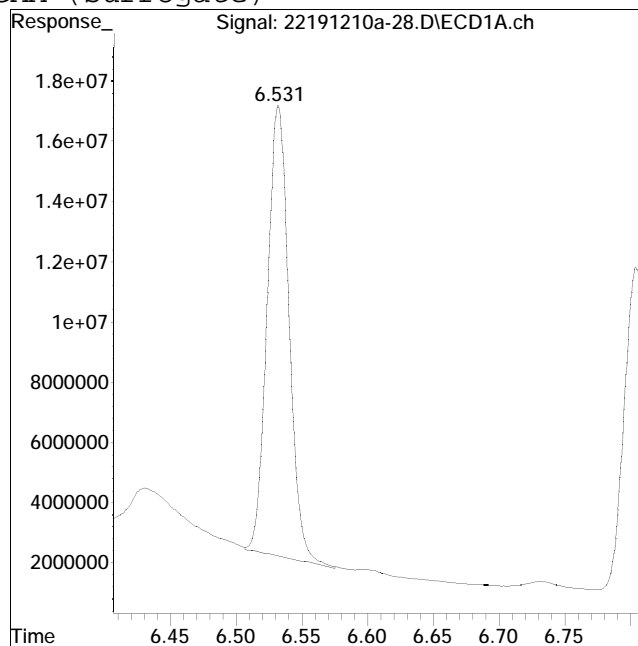
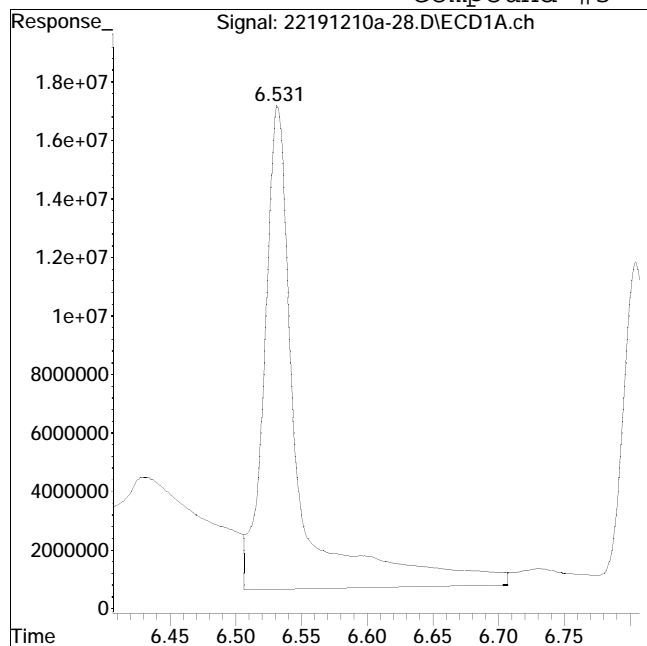
Manual Peak Response = 646760354 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191210QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191210a-28.D Operator : pest22:jmc
Date Inj'd : 12/10/2019 8:06 pm Instrument : Pest22
Sample : wg1316266-2,42e,, t Quant Date : 12/11/2019 10:30 am

Compound #3: DCAA (surrogate)



Original Peak Response = 291858302

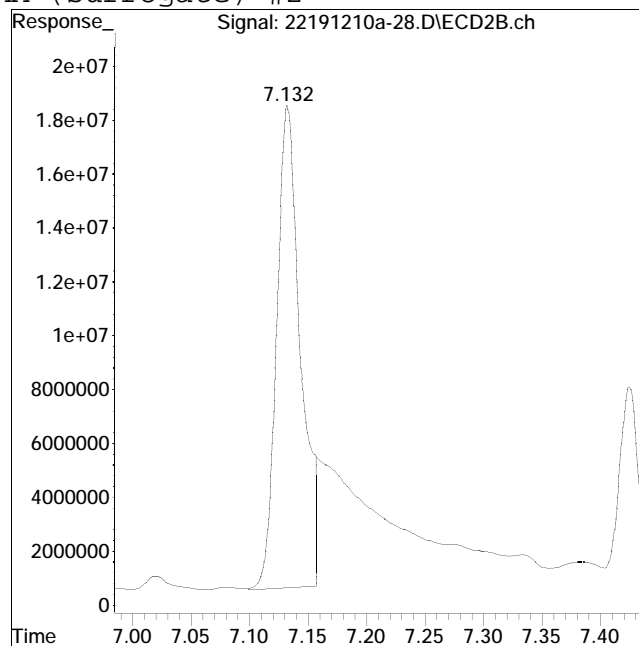
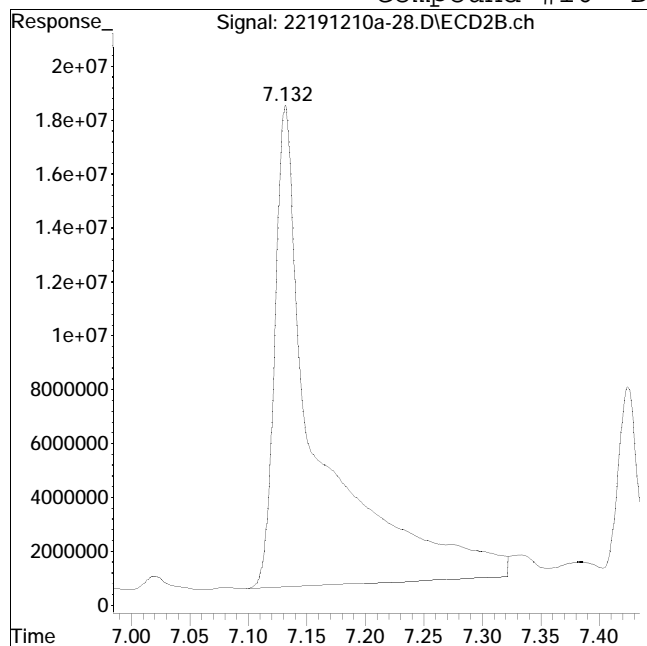
Manual Peak Response = 172232110 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191210QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191210a-28.D Operator : pest22:jmc
Date Inj'd : 12/10/2019 8:06 pm Instrument : Pest22
Sample : wg1316266-2,42e,, t Quant Date : 12/11/2019 10:30 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 462976432

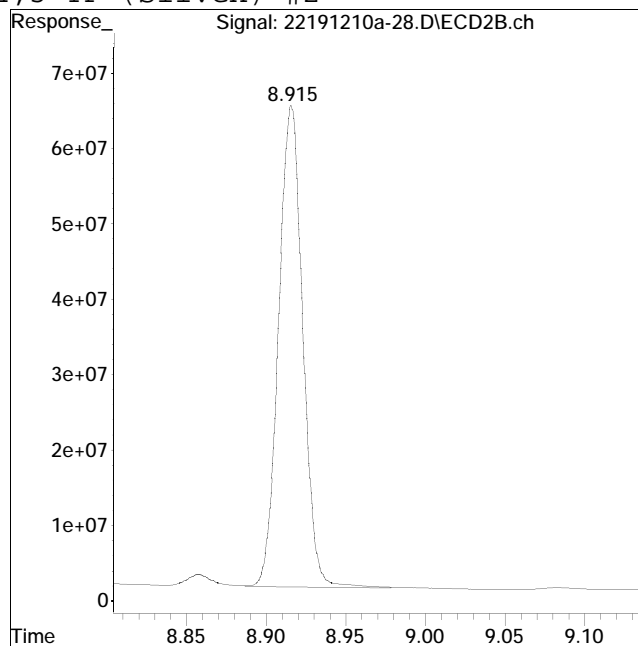
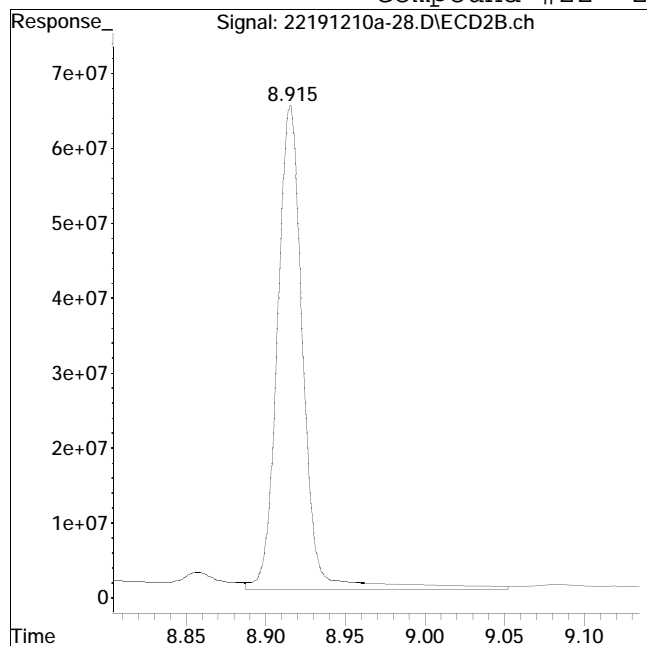
Manual Peak Response = 253496362 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191210QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191210a-28.D Operator : pest22:jmc
Date Inj'd : 12/10/2019 8:06 pm Instrument : Pest22
Sample : wg1316266-2,42e,, t Quant Date : 12/11/2019 10:30 am

Compound #22: 2,4,5-TP (Silvex) #2



Original Peak Response = 740437389

Manual Peak Response = 674534765 M4

M4 = Poor automated baseline construction.

LCS Duplicate Raw Data

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191202A\
 Data File : 17191202a-28.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Dec 2019 9:08 pm
 Operator : PEST17:dgm
 Sample : wg1314990-3,42e,,8151 5001 apa
 Misc : wg1315531,wg1314990,ical16100
 ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 03 11:32:15 2019
 Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191202A\17191202a-25.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.624	8.634	884.1E6	926.3E6	0.250	0.250
Standard Area 1 : #1 = 581370477					Recovery =	152.08%
Standard Area 1 : #2 = 617736738					Recovery =	149.94%
System Monitoring Compounds						
3) s DCAA (surrog	7.085	7.566	175.0E6	233.4E6	0.305	0.314
Spiked Amount	0.500	Range 30 - 150			Recovery =	61.00% 62.80%
Target Compounds						
2) t Dalapon	2.059	2.123	160.7E6	186.5E6	0.324	0.320
4) t Dicamba	7.271	7.749	555.6E6	640.5E6	0.318	0.306
5) t MCPP	7.472	7.859	87440261	90568054	37.870	30.940M4
6) t MCPA	7.619	8.087	110.0E6	131.7E6	30.028	29.194
7) t Dichloroprop	7.973	8.404	211.4E6	208.1E6	0.441	0.352
8) t 2,4-D	8.186	8.678	214.0E6	248.0E6	0.328	0.302
9) t 2,4,5-TP (Si	8.897	9.334	786.5E6	906.6E6	0.315	0.345
10) t 2,4,5-T	9.113	9.621	797.2E6	930.5E6	0.303M4	0.350
11) t 2,4-DB	9.516f	9.980	129.2E6	167.0E6	0.300	0.353

SemiQuant Compounds - Not Calibrated on this Instrument

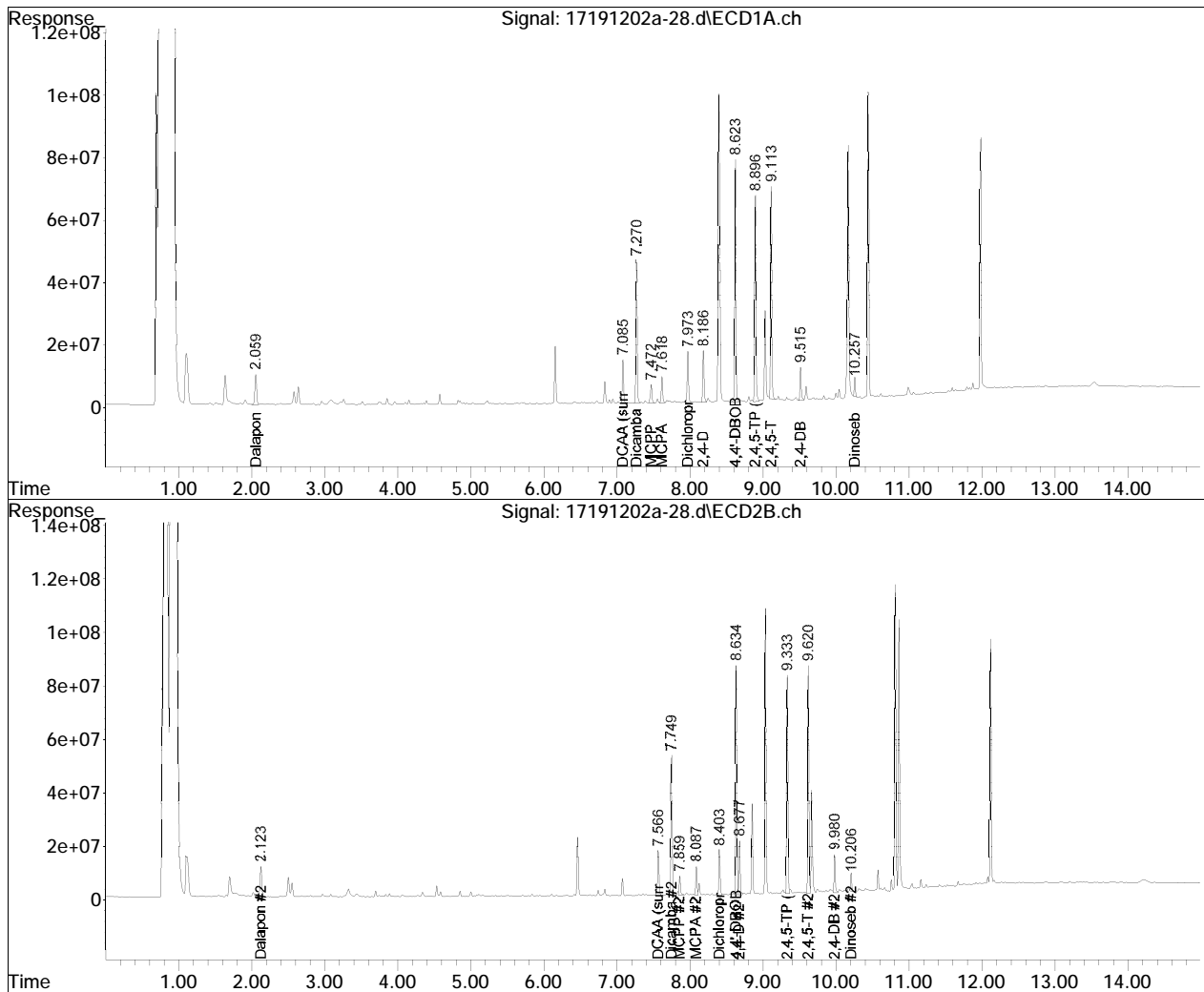
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda-25.d••d)

Data Path : I:\Pest17\191202A\
Data File : 17191202a-28.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Dec 2019 9:08 pm
Operator : PEST17:dgm
Sample : wg1314990-3,42e,,8151 5001 apa
Misc : wg1315531,wg1314990,ical16100
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 11:32:15 2019
Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

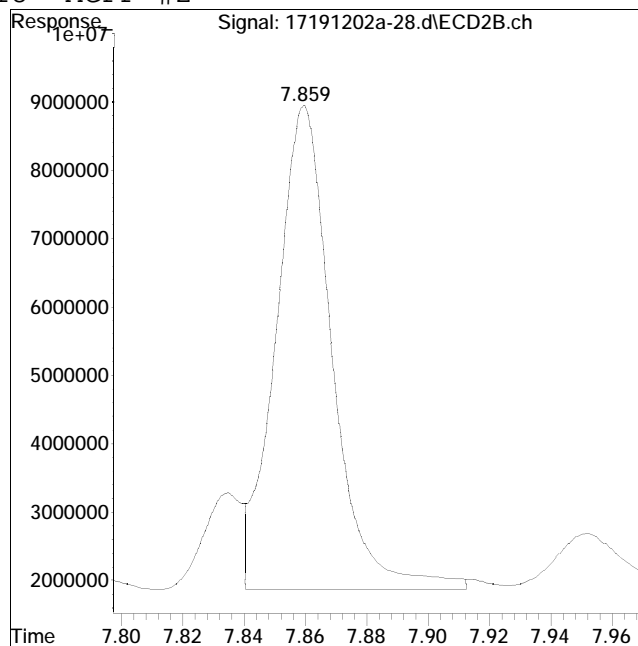
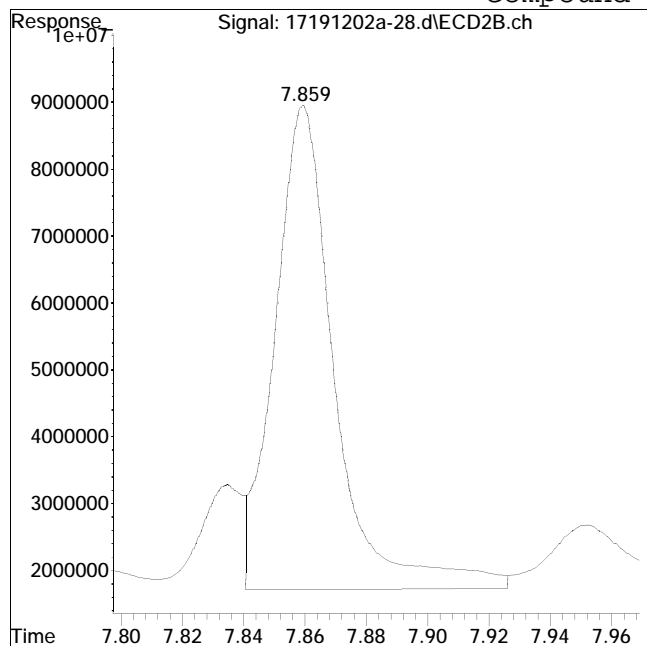
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest17\191202A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191202a-28.d Operator : PEST17:dgm
Date Inj'd : 12/2/2019 9:08 pm Instrument : Pest 17
Sample : wg1314990-3,42e,,8151 5001 Quant Date : 12/3/2019 11:31 am

Compound #18: MCPP #2



Original Peak Response = 99238485

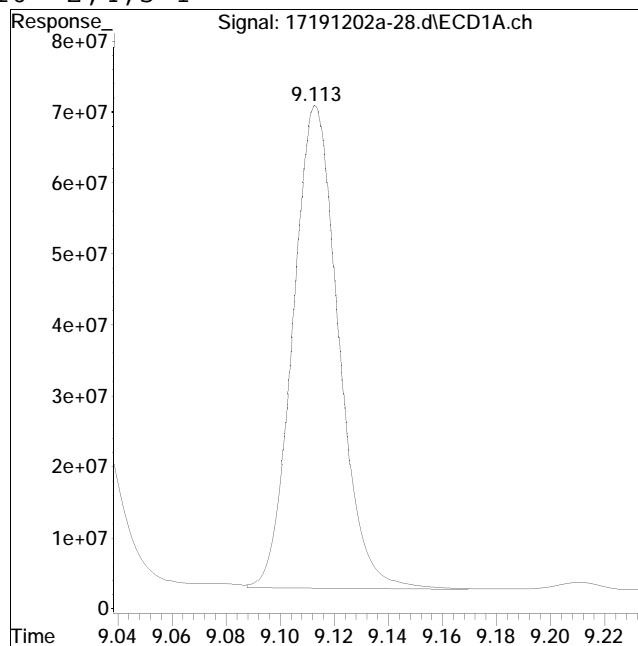
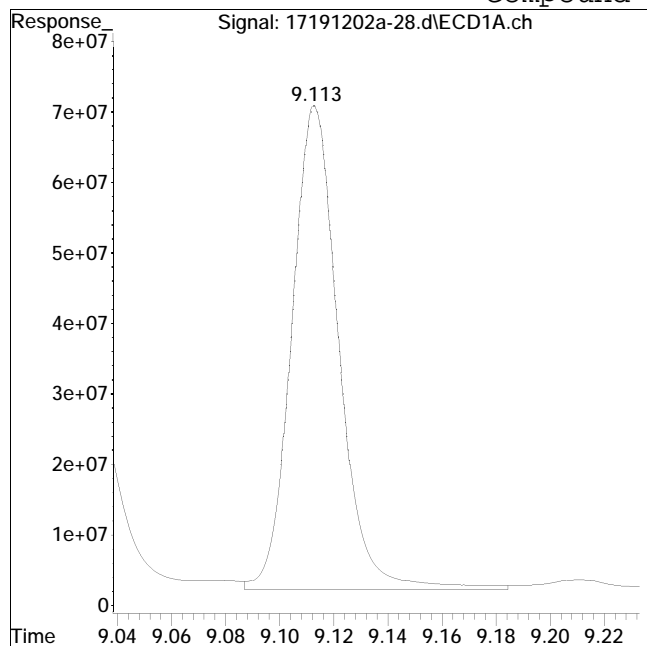
Manual Peak Response = 90568054 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191202A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191202a-28.d Operator : PEST17:dgm
Date Inj'd : 12/2/2019 9:08 pm Instrument : Pest 17
Sample : wg1314990-3,42e,,8151 5001 Quant Date : 12/3/2019 11:31 am

Compound #10: 2,4,5-T



Original Peak Response = 836701699

Manual Peak Response = 797237485 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191202A\
 Data File : 17191202a-82.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 3 Dec 2019 1:41 pm
 Operator : PEST17:jmc
 Sample : wg1315021-3,42e,, 20
 Misc : wg1315531,wg1315021,ical16100
 ALS Vial : 82 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 03 20:10:57 2019
 Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191202A\17191202a-79.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.622	8.633	364.2E6	400.4E6	0.250	0.250
Standard Area 1 : #1 = 401397678					Recovery =	90.74%
Standard Area 1 : #2 = 436503268					Recovery =	91.72%
System Monitoring Compounds						
3) s DCAA (surrog	7.085	7.565	104.2E6	132.1E6	0.440	0.412
Spiked Amount	0.500	Range 30 - 150		Recovery =	88.00%	82.40%
Target Compounds						
2) t Dalapon	2.055	2.119	97293669	130.7E6	0.476M4	0.519M4
4) t Dicamba	7.270	7.748	322.9E6	371.5E6	0.449	0.411
5) t MCPP	7.471	7.859	49556364	51526885	52.098	40.726
6) t MCPA	7.618	8.085	71499561	103.3E6	53.912	52.957M4
7) t Dichloroprop	7.972	8.403	112.4E6	146.4E6	0.593M4	0.592
8) t 2,4-D	8.186	8.678	131.6E6	152.5E6	0.489	0.429
9) t 2,4,5-TP (Si	8.897	9.333	482.5E6	557.7E6	0.469	0.494
10) t 2,4,5-T	9.112	9.620	466.6E6	575.2E6	0.431	0.501
11) t 2,4-DB	9.516f	9.980	74738992	97295688	0.421	0.476
12) t Dinoseb	10.258	10.205	258.4E6	286.9E6	0.631	0.702

SemiQuant Compounds - Not Calibrated on this Instrument

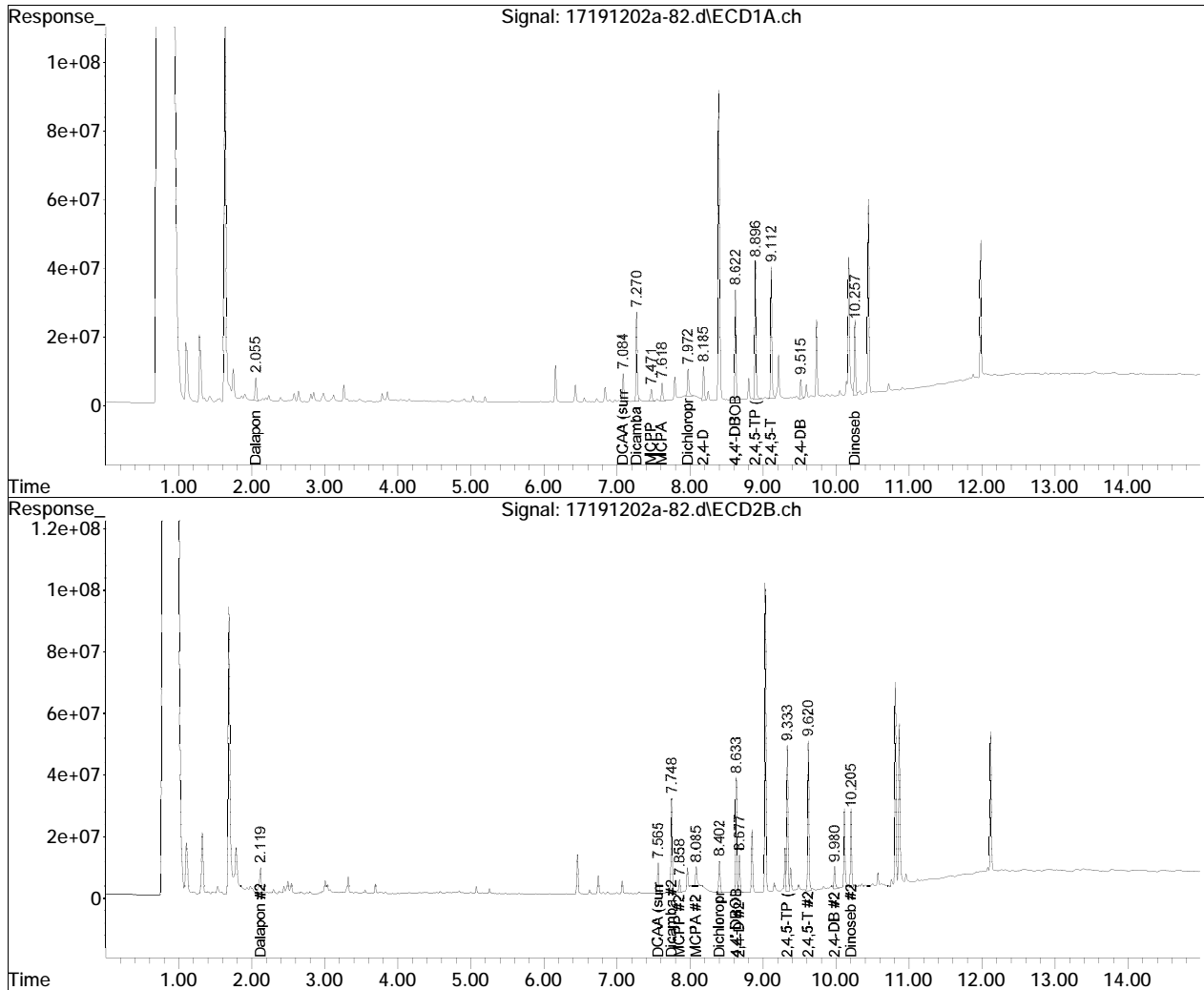
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed a-79.d••d)

Data Path : I:\Pest17\191202A\
Data File : 17191202a-82.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Dec 2019 1:41 pm
Operator : PEST17:jmc
Sample : wg1315021-3,42e,, 20
Misc : wg1315531,wg1315021,ical16100
ALS Vial : 82 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 20:10:57 2019
Quant Method : I:\Pest17\191202A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

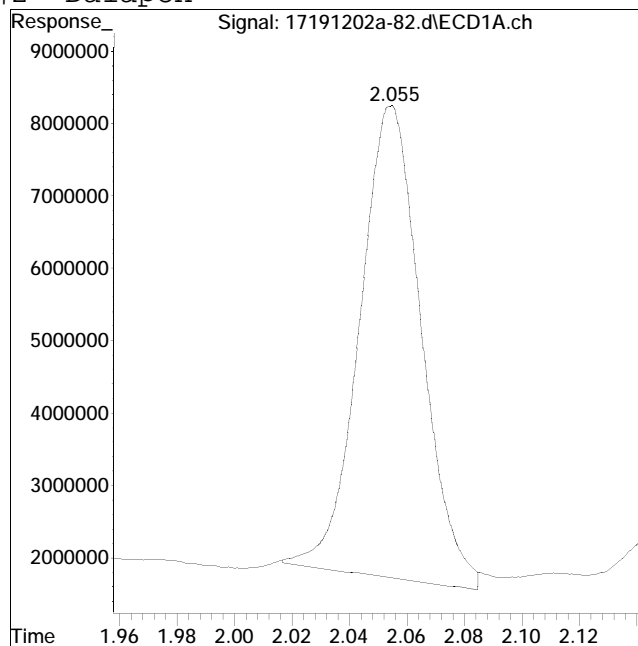
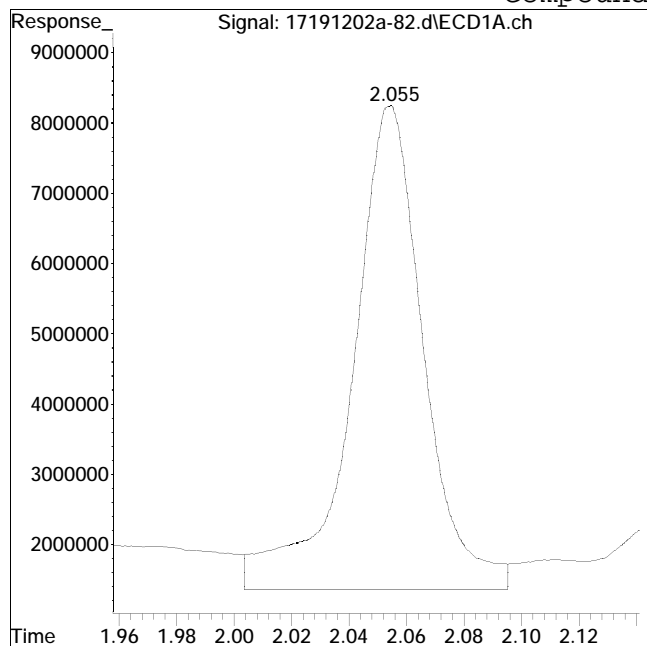


Manual Integration Report

Data Path : I:\Pest17\191202A\
Data File : 17191202a-82.d
Date Inj'd : 12/3/2019 1:41 pm
Sample : wg1315021-3,42e,, 20

QMethod : Herb17_09_03_ICAL16100.m
Operator : PEST17:jmc
Instrument : Pest 17
Quant Date : 12/3/2019 8:10 pm

Compound #2: Dalapon



Original Peak Response = 119642517

Manual Peak Response = 97293669 M4

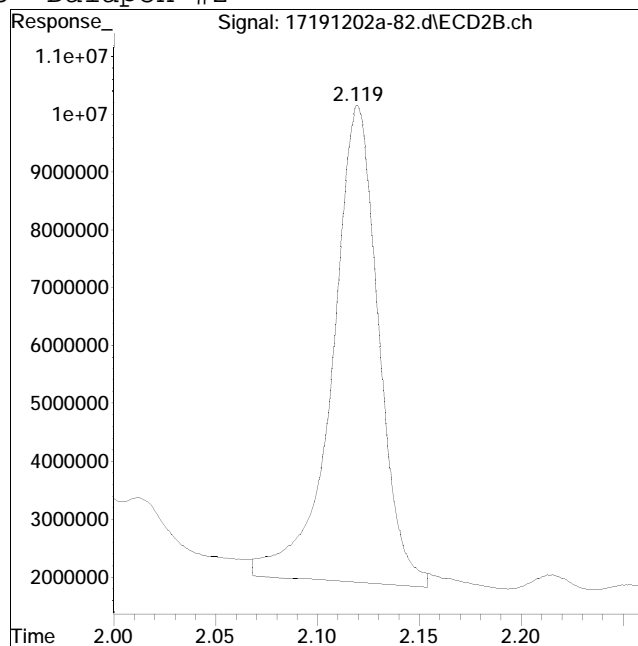
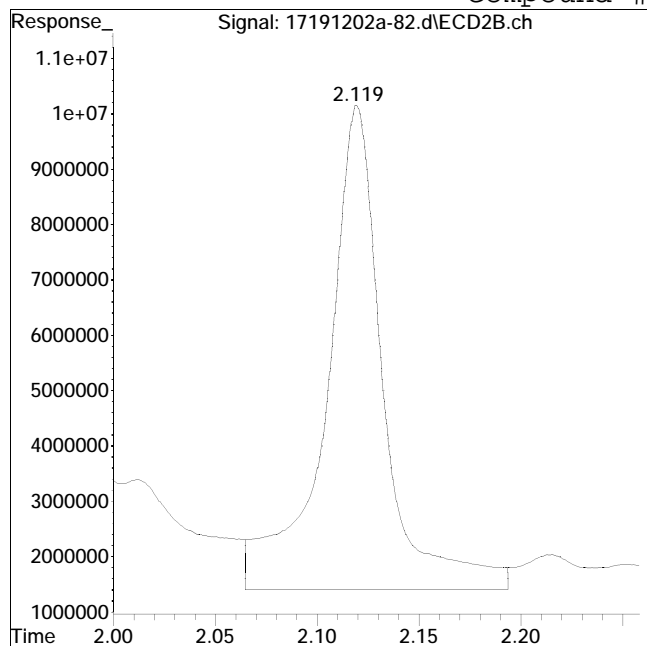
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191202A\
Data File : 17191202a-82.d
Date Inj'd : 12/3/2019 1:41 pm
Sample : wg1315021-3,42e,, 20

QMethod : Herb17_09_03_ICAL16100.m
Operator : PEST17:jmc
Instrument : Pest 17
Quant Date : 12/3/2019 8:10 pm

Compound #15: Dalapon #2



Original Peak Response = 171390225

Manual Peak Response = 130676856 M4

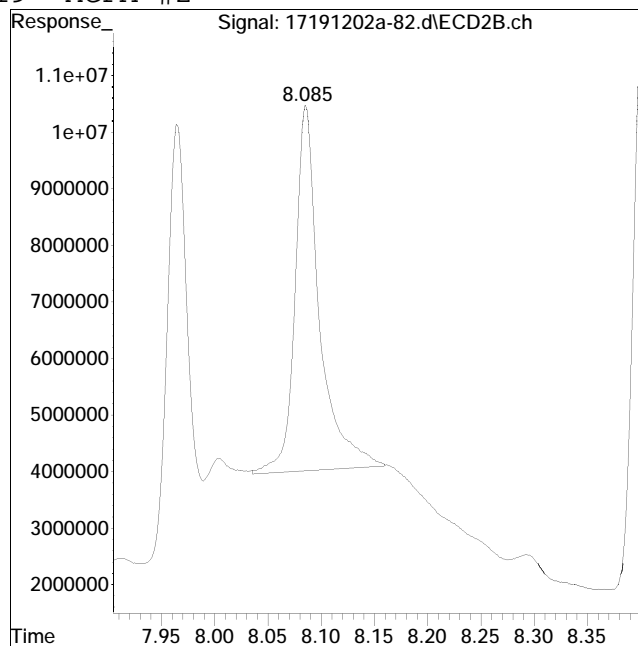
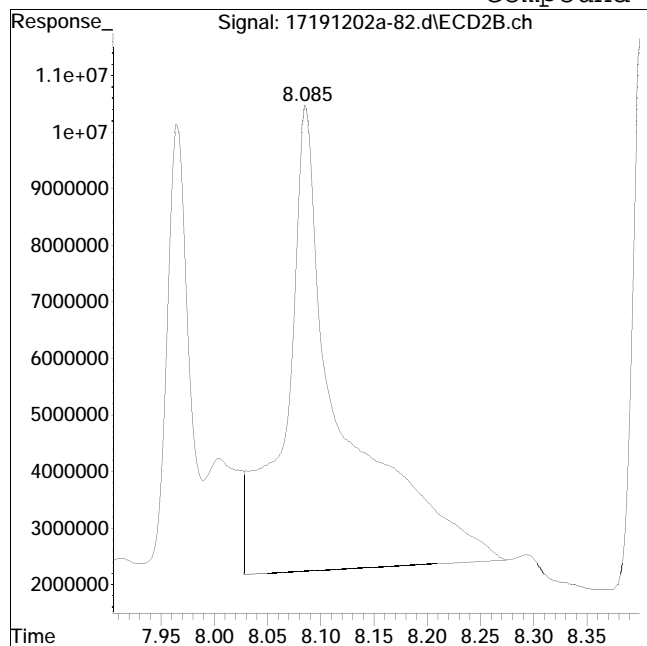
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191202A\
Data File : 17191202a-82.d
Date Inj'd : 12/3/2019 1:41 pm
Sample : wg1315021-3,42e,, 20

QMethod : Herb17_09_03_ICAL16100.m
Operator : PEST17:jmc
Instrument : Pest 17
Quant Date : 12/3/2019 8:10 pm

Compound #19: MCPA #2



Original Peak Response = 303959669

Manual Peak Response = 103277042 M4

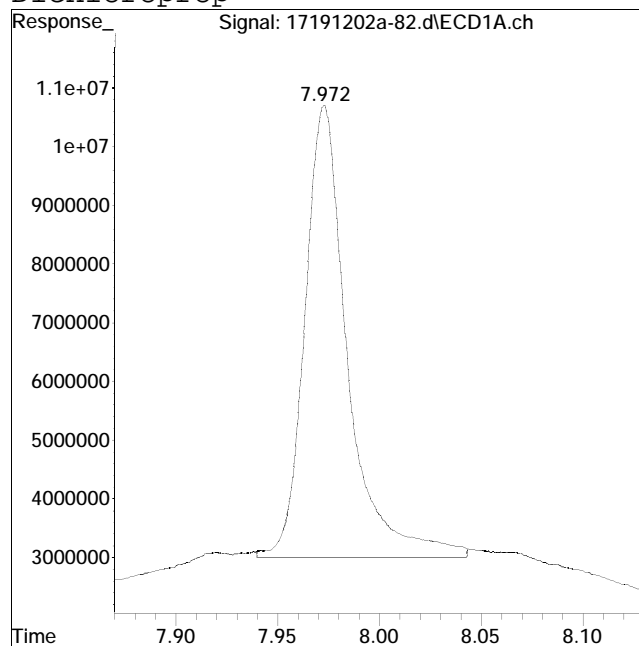
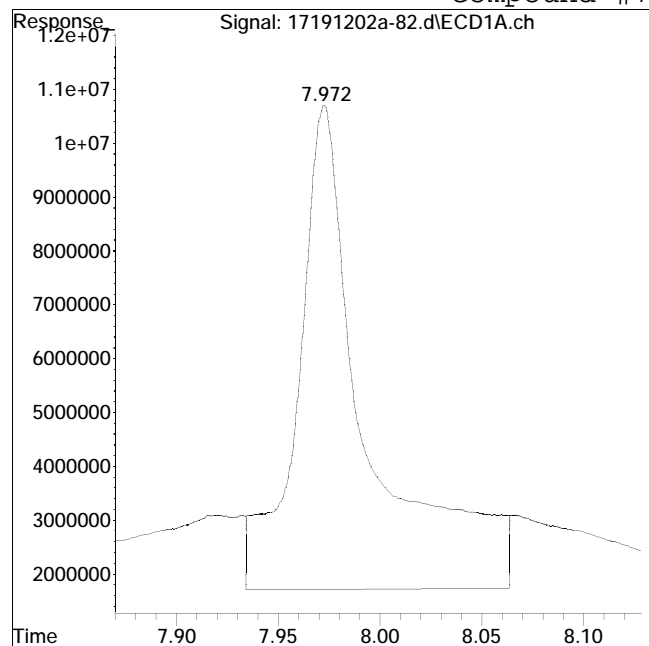
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191202A\
Data File : 17191202a-82.d
Date Inj'd : 12/3/2019 1:41 pm
Sample : wg1315021-3,42e,, 20

QMethod : Herb17_09_03_ICAL16100.m
Operator : PEST17:jmc
Instrument : Pest 17
Quant Date : 12/3/2019 8:10 pm

Compound #7: Dichloroprop



Original Peak Response = 214140451

Manual Peak Response = 112445915 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191203A\
 Data File : 17191203a-05.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 4 Dec 2019 12:44 am
 Operator : PEST17:dgm
 Sample : wg1315317-3,42e,,317 (Sig #1); wg1315261-3,42e,,317 (Sig #2)
 Misc : wg1316251,wg1315317,icall16100
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 04 11:14:49 2019
 Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191203A\17191203a-01.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.623	8.633	326.3E6	356.8E6	0.250	0.250
Standard Area 1 : #1 = 468332196					Recovery =	69.67%
Standard Area 1 : #2 = 505837689					Recovery =	70.53%
System Monitoring Compounds						
3) s DCAA (surrog	7.085	7.566	83766372	108.9E6	0.395	0.381
Spiked Amount	0.500	Range 30 - 150		Recovery =	79.00%	76.20%
Target Compounds						
2) t Dalapon	2.055	2.120	73375018	87730350	0.401	0.391
4) t Dicamba	7.271	7.748	253.2E6	297.7E6	0.393	0.370
5) t MCPP	7.471	7.858	41763658	40113895	49.010	35.576M4
6) t MCPA	7.618	8.086	56399557	66054481	46.115M4	38.006M4
7) t Dichloroprop	7.973	8.403	80130833	113.3E6	0.455M4	0.510
8) t 2,4-D	8.188	8.679	94684550	119.4E6	0.393	0.377
9) t 2,4,5-TP (Si	8.898	9.334	355.7E6	423.8E6	0.386	0.420
10) t 2,4,5-T	9.114	9.621	371.3E6	431.6E6	0.383	0.422
11) t 2,4-DB	9.519	9.982	58724769	72426803	0.369	0.398

SemiQuant Compounds - Not Calibrated on this Instrument

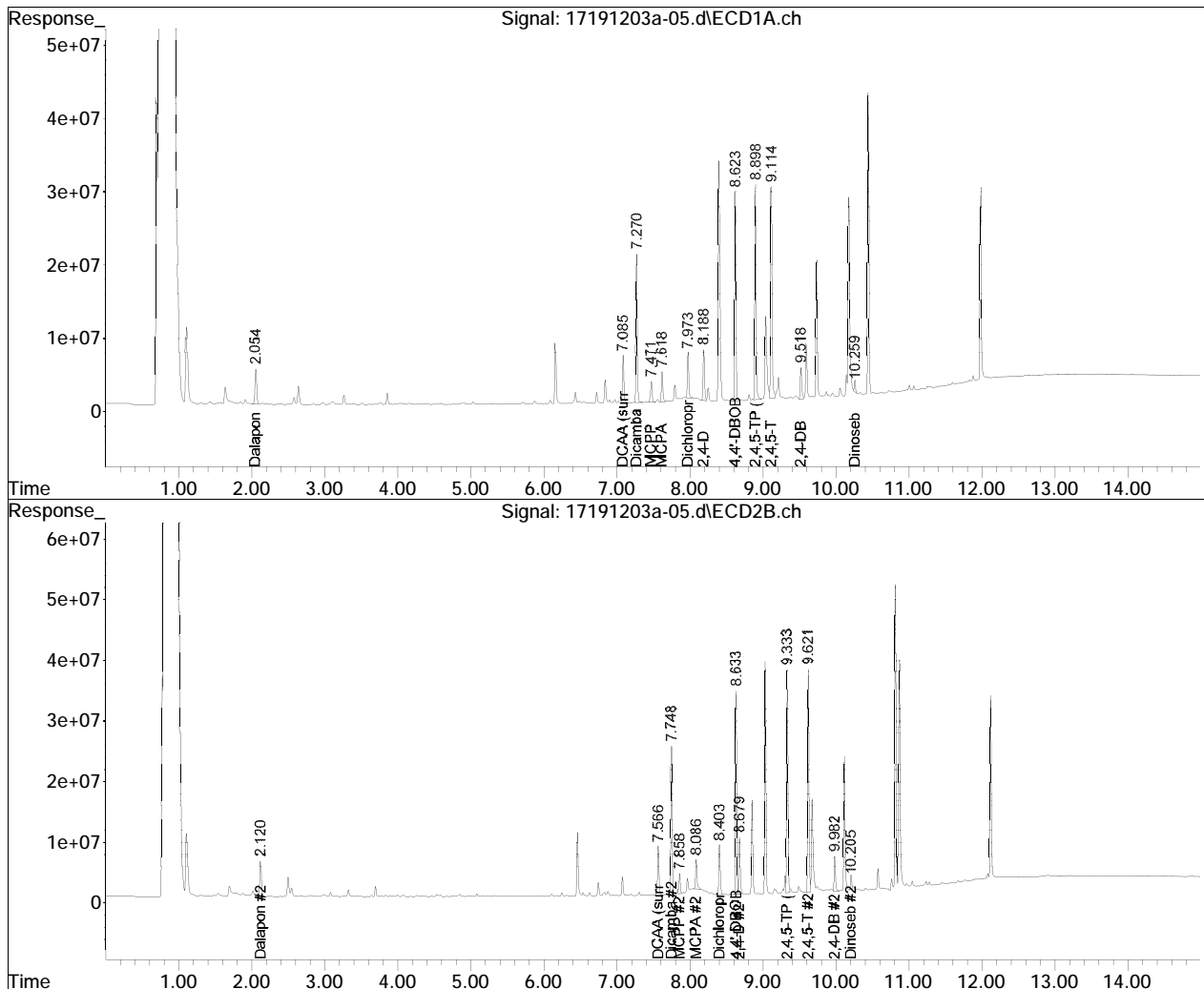
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed a-01.d••d)

Data Path : I:\Pest17\191203A\
Data File : 17191203a-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2019 12:44 am
Operator : PEST17:dgm
Sample : wg1315317-3,42e,,317 (Sig #1); wg1315261-3,42e,,317 (Sig #2)
Misc : wg1316251,wg1315317,ical16100
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 11:14:49 2019
Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

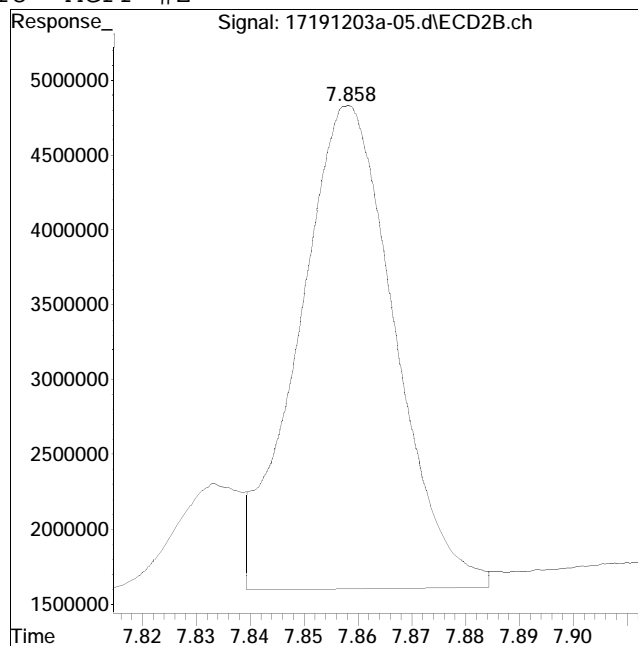
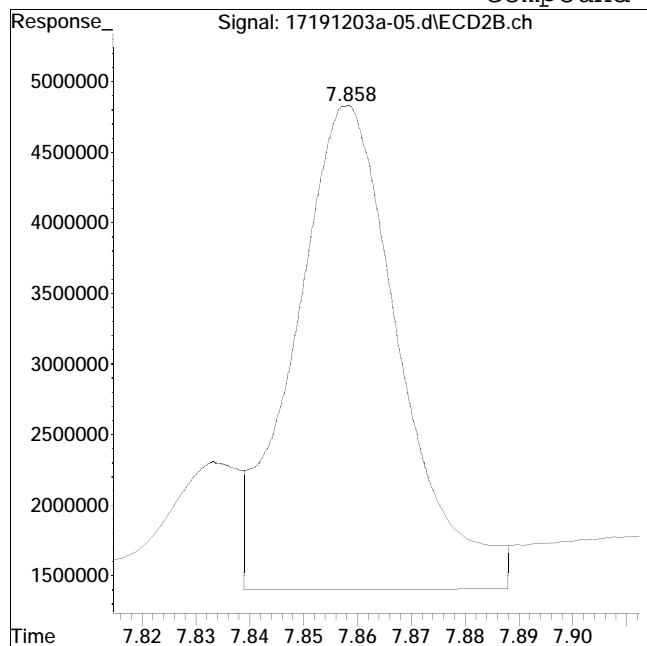


Manual Integration Report

Data Path : I:\Pest17\191203A\
Data File : 17191203a-05.d
Date Inj'd : 12/4/2019 12:44 am
Sample : wg1315317-3,42e,,317

QMethod : Herb17_09_03_ICAL16100.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 12/4/2019 11:14 am

Compound #18: MCPP #2



Original Peak Response = 46457330

Manual Peak Response = 40113895 M4

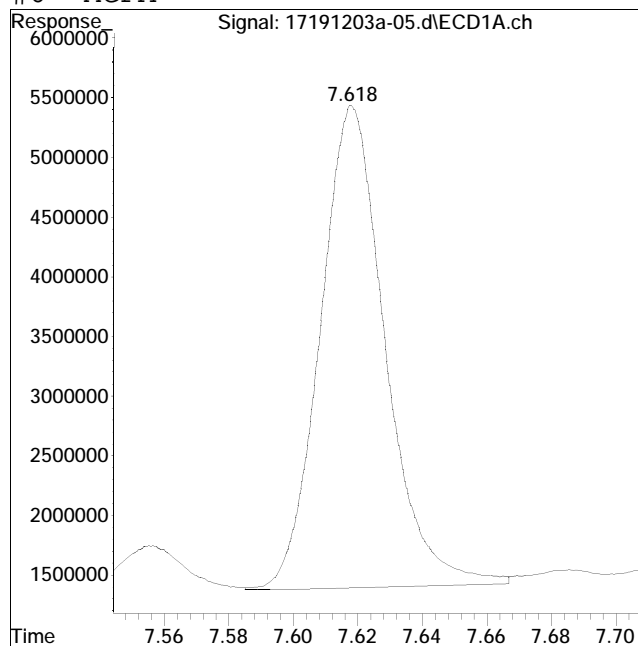
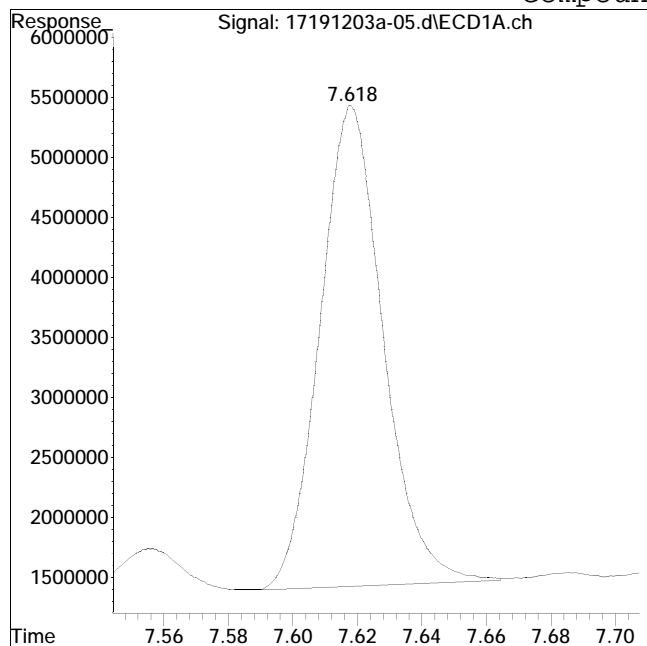
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191203A\
Data File : 17191203a-05.d
Date Inj'd : 12/4/2019 12:44 am
Sample : wg1315317-3,42e,,317

QMethod : Herb17_09_03_ICAL16100.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 12/4/2019 11:14 am

Compound #6: MCPA



Original Peak Response = 54606837

Manual Peak Response = 56399557 M4

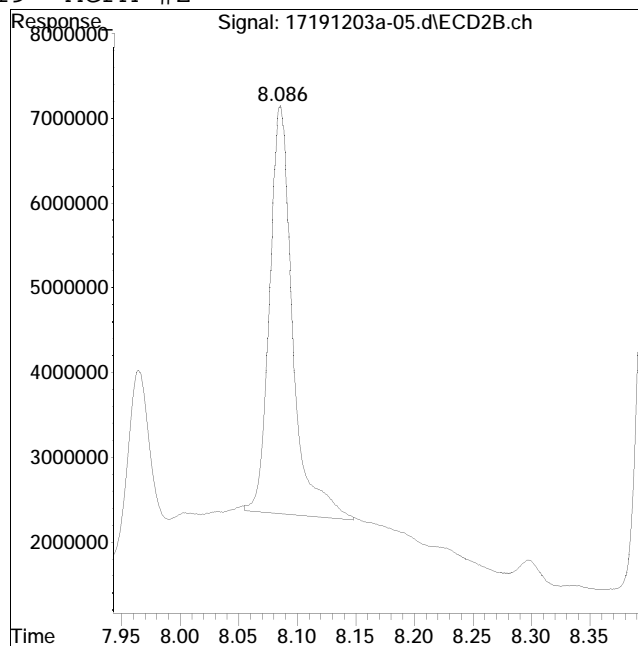
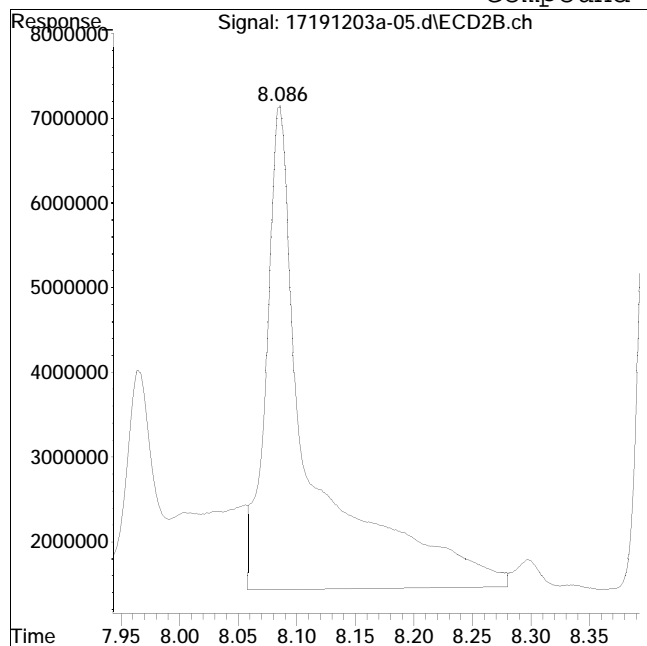
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191203A\
Data File : 17191203a-05.d
Date Inj'd : 12/4/2019 12:44 am
Sample : wg1315317-3,42e,,317

QMethod : Herb17_09_03_ICAL16100.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 12/4/2019 11:14 am

Compound #19: MCPA #2



Original Peak Response = 153445058

Manual Peak Response = 66054481 M4

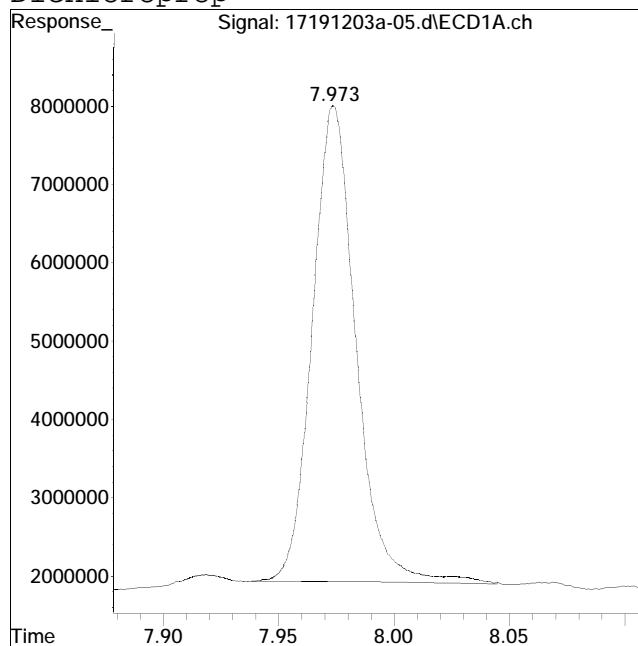
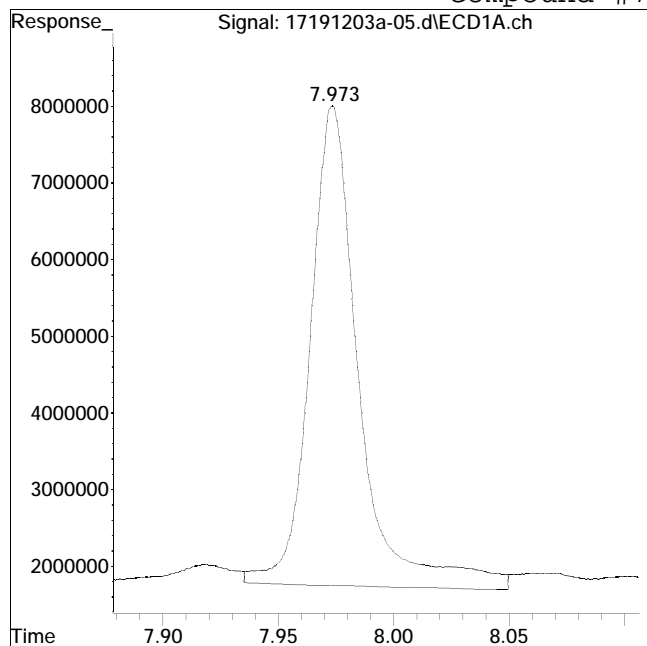
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191203A\
Data File : 17191203a-05.d
Date Inj'd : 12/4/2019 12:44 am
Sample : wg1315317-3,42e,,317

QMethod : Herb17_09_03_ICAL16100.m
Operator : PEST17:dgm
Instrument : Pest 17
Quant Date : 12/4/2019 11:14 am

Compound #7: Dichloroprop



Original Peak Response = 92463335

Manual Peak Response = 80130833 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191203A\
 Data File : 17191203a-45.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 4 Dec 2019 12:59 pm
 Operator : PEST17:tq
 Sample : wgl1316102-3,42e,, apa 02 8151 (Sig #1); wgl1316110-3,42e,, apa 02 8
 151 (Sig #2)
 Misc : wgl1316251,wgl1316102,ical16100
 ALS Vial : 90 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 04 14:07:14 2019
 Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191203A\17191203a-42.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.623	8.634	272.7E6	293.6E6	0.250	0.250
Standard Area 1 : #1 = 338506131					Recovery =	80.57%
Standard Area 1 : #2 = 367722415					Recovery =	79.85%
System Monitoring Compounds						
3) s DCAA (surrog	7.085	7.566	67832340	93200359	0.383	0.396
Spiked Amount	0.500	Range 30 - 150			Recovery =	76.60%
Target Compounds						
2) t Dalapon	2.052	2.117	58673633	68839225	0.383	0.373
4) t Dicamba	7.270	7.749	218.7E6	258.3E6	0.406	0.390
5) t MCPP	7.471	7.859	36586129	36870201	51.364	39.733
6) t MCPA	7.619	8.086	49735851	56812388	49.275	39.719
7) t Dichloroprop	7.975	8.405	72879628	98063813	0.502	0.538
8) t 2,4-D	8.191	8.682	85073350	132.8E6	0.422	0.509
9) t 2,4,5-TP (Si	8.900	9.335	305.3E6	381.1E6	0.397	0.460
10) t 2,4,5-T	9.118	9.623	319.6E6	370.1E6	0.394	0.439
11) t 2,4-DB	9.520	9.983	54730448	66463765	0.411	0.443

SemiQuant Compounds - Not Calibrated on this Instrument

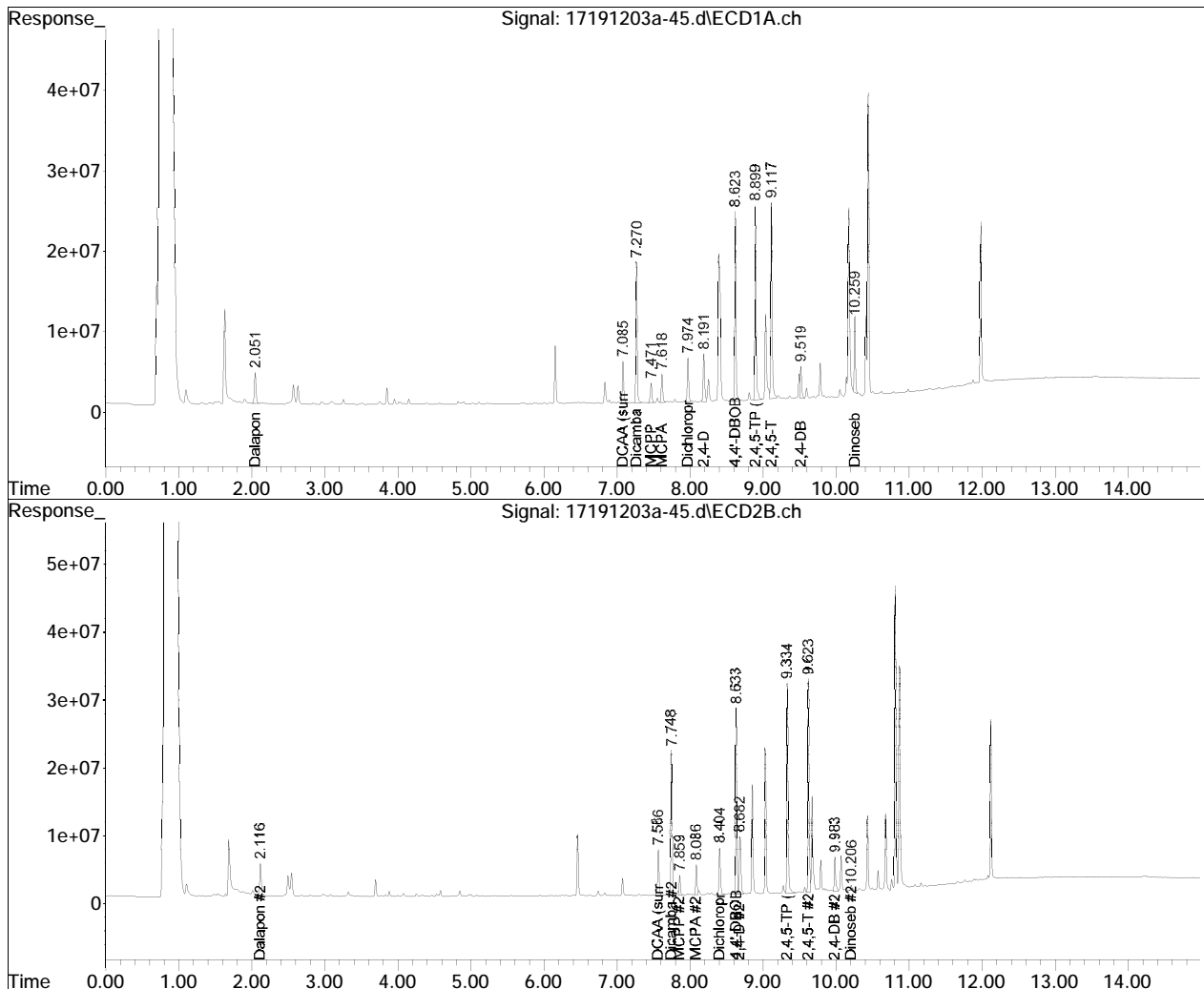
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coeluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed a-42.d••d)

Data Path : I:\Pest17\191203A\
Data File : 17191203a-45.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2019 12:59 pm
Operator : PEST17:tq
Sample : wg1316102-3,42e,, apa 02 8151 (Sig #1); wg1316110-3,42e,, apa 02 8
Misc : wg1316251,wg1316102,ical16100
ALS Vial : 90 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 14:07:14 2019
Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (QT Reviewed)

Data Path : I:\Pest22\data\2019\191210a\
 Data File : 22191210a-29.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 10 Dec 2019 08:25 pm
 Operator : pest22:jmc
 Sample : wgl1316266-3,42e,, t
 Misc : wgl1318866,wgl1316266,ical16347
 ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 11 10:32:32 2019
 Quant Method : I:\Pest22\data\2019\191210a\Herb22_19_12_08_mgL_ICAL16347.m
 Quant Title : herb
 QLast Update : Mon Dec 09 12:05:05 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest22\data\2019\191210a\22191210a-26.D
 Sub List : HERB-TCLP - TCLP

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.077	8.206	634.3E6	618.3E6	0.250	0.250
Standard Area 1 : #1 = 568807420					Recovery = 111.52%	
Standard Area 1 : #2 = 511525609					Recovery = 120.86%	
System Monitoring Compounds						
3) s DCAA (surrog	6.531	7.131	149.0E6	282.6E6	0.362M4	0.609M3
Spiked Amount	0.500	Range 30 - 150			Recovery = 72.40%	121.80%
Target Compounds						
8) t 2,4-D	7.621	8.251	277.3E6	310.3E6	0.574M4	0.522
9) t 2,4,5-TP (Si	8.351	8.915	624.1E6	572.5E6	0.368	0.322M4
SemiQuant Compounds - Not Calibrated on this Instrument						

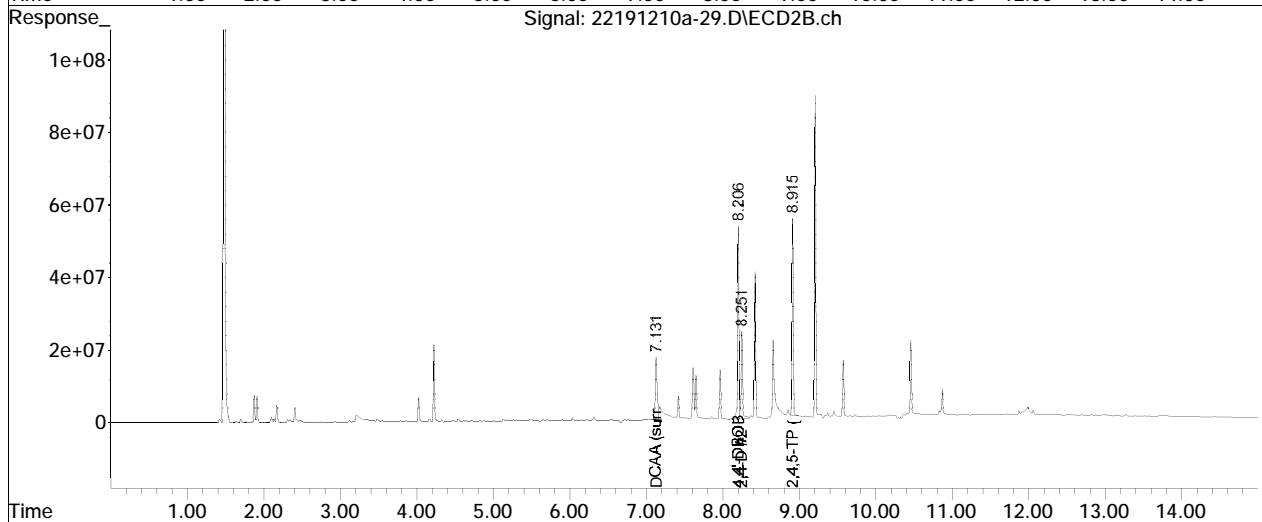
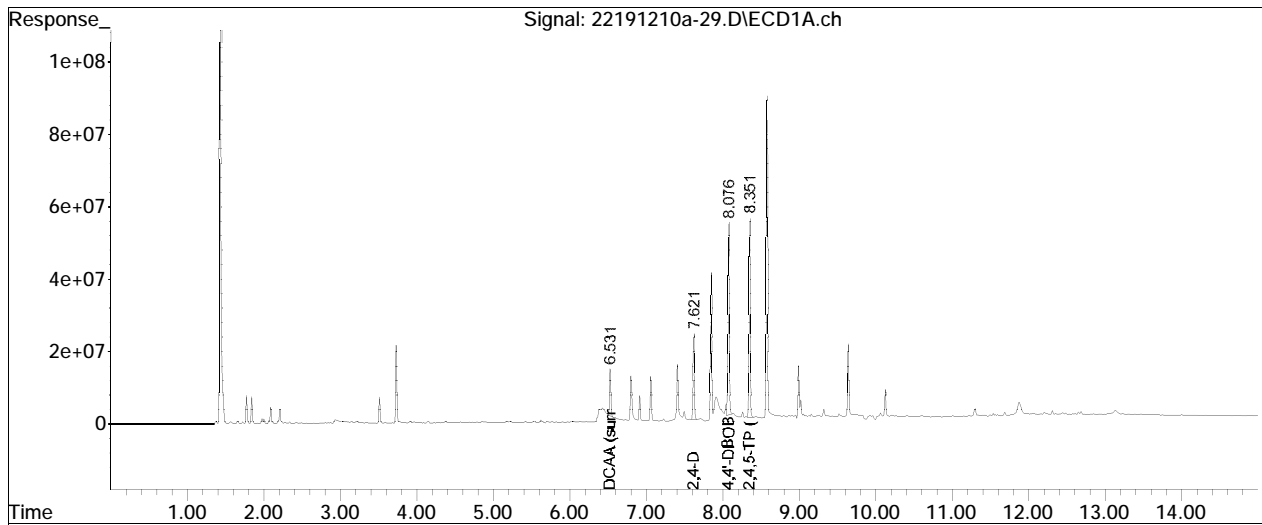
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : HERB-TCLP - TCLPta\2019\191210a\22191210a-26.D••

Data Path : I:\Pest22\data\2019\191210a\
Data File : 22191210a-29.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Dec 2019 08:25 pm
Operator : pest22:jmc
Sample : wg1316266-3,42e,, t
Misc : wg1318866,wg1316266,ical16347
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 11 10:32:32 2019
Quant Method : I:\Pest22\data\2019\191210a\Herb22_19_12_08_mgL_ICAL16347.m
Quant Title : herb
QLast Update : Mon Dec 09 12:05:05 2019
Response via : Initial Calibration
Integrator: ChemStation

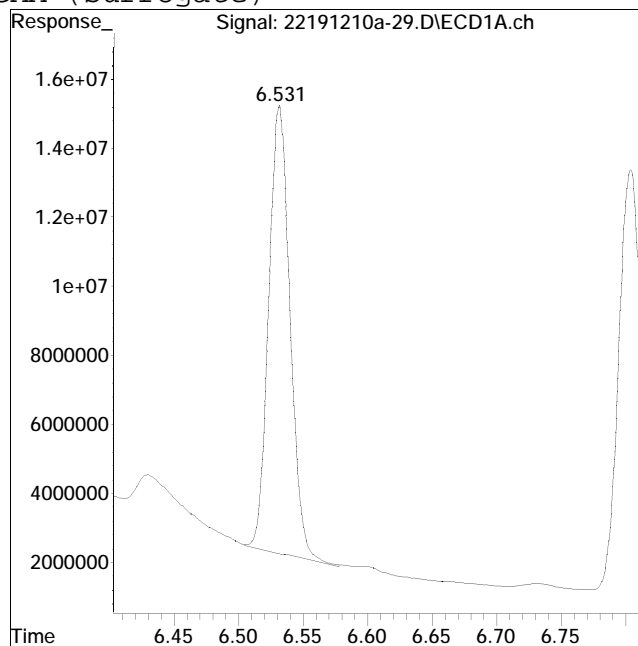
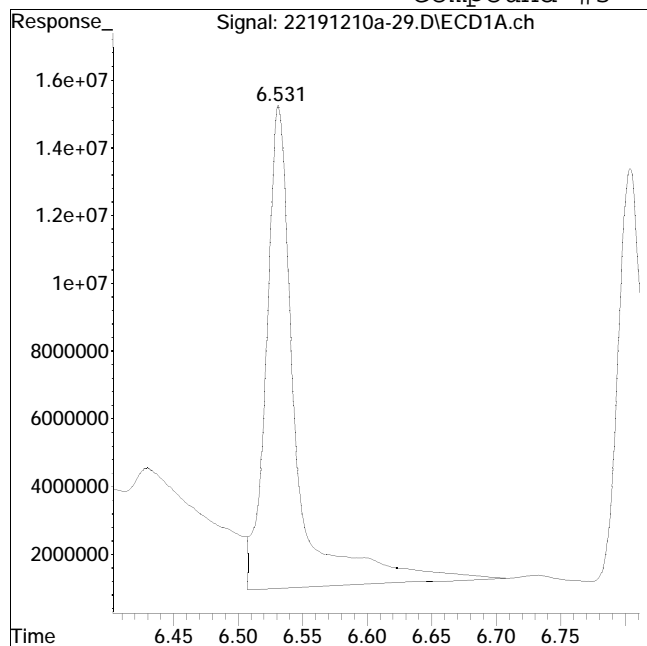
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest22\data\2019\191210QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191210a-29.D Operator : pest22:jmc
Date Inj'd : 12/10/2019 8:25 pm Instrument : Pest22
Sample : wg1316266-3,42e,, t Quant Date : 12/11/2019 10:31 am

Compound #3: DCAA (surrogate)



Original Peak Response = 227991699

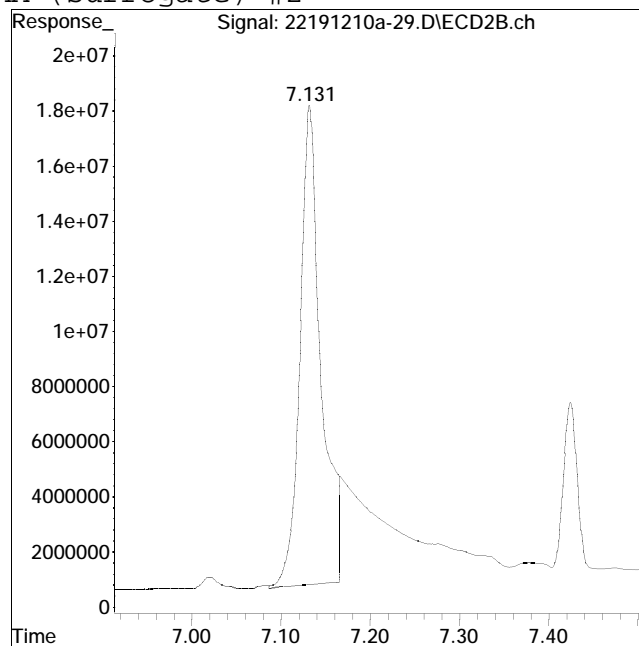
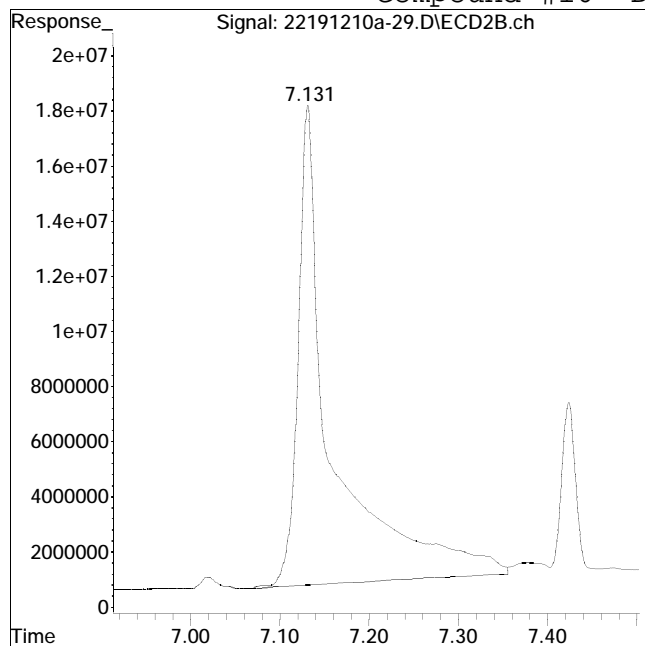
Manual Peak Response = 148976662 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191210QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191210a-29.D Operator : pest22:jmc
Date Inj'd : 12/10/2019 8:25 pm Instrument : Pest22
Sample : wg1316266-3,42e,, t Quant Date : 12/11/2019 10:31 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 465079140

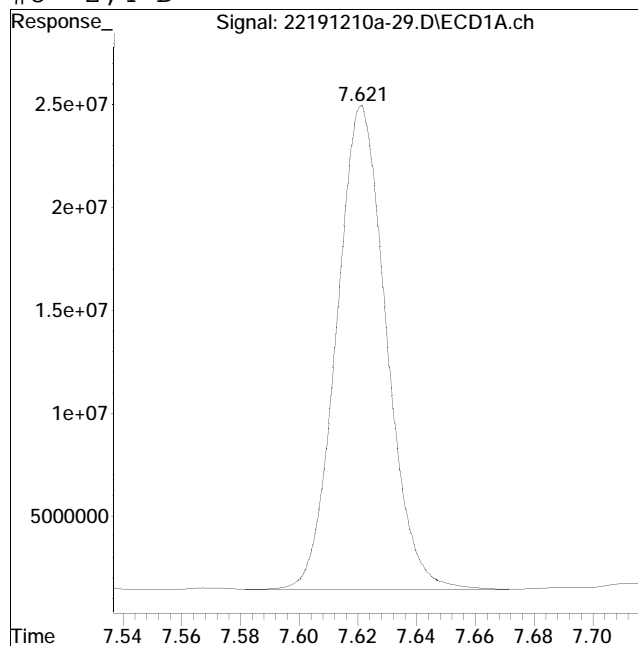
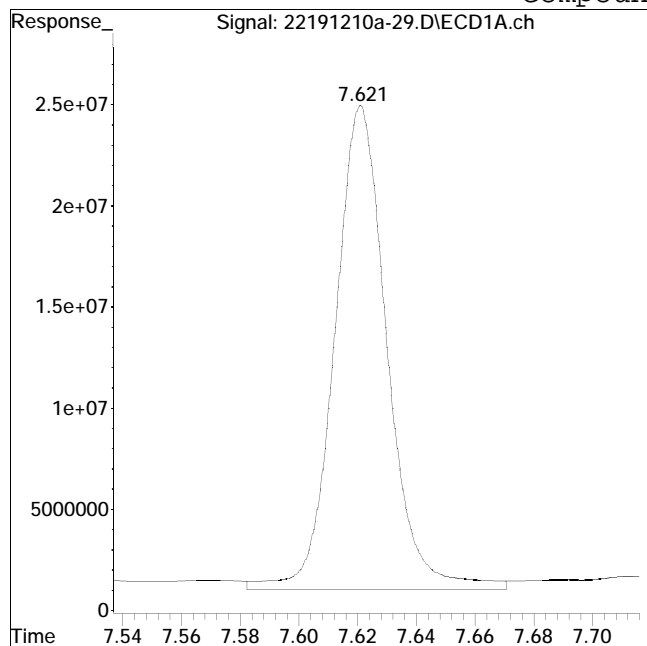
Manual Peak Response = 282640549 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191210QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191210a-29.D Operator : pest22:jmc
Date Inj'd : 12/10/2019 8:25 pm Instrument : Pest22
Sample : wg1316266-3,42e,, t Quant Date : 12/11/2019 10:31 am

Compound #8: 2,4-D



Original Peak Response = 297816649

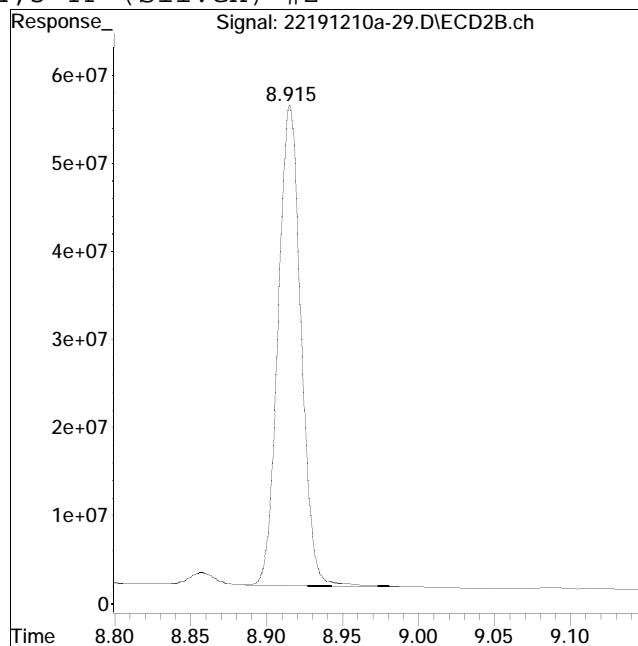
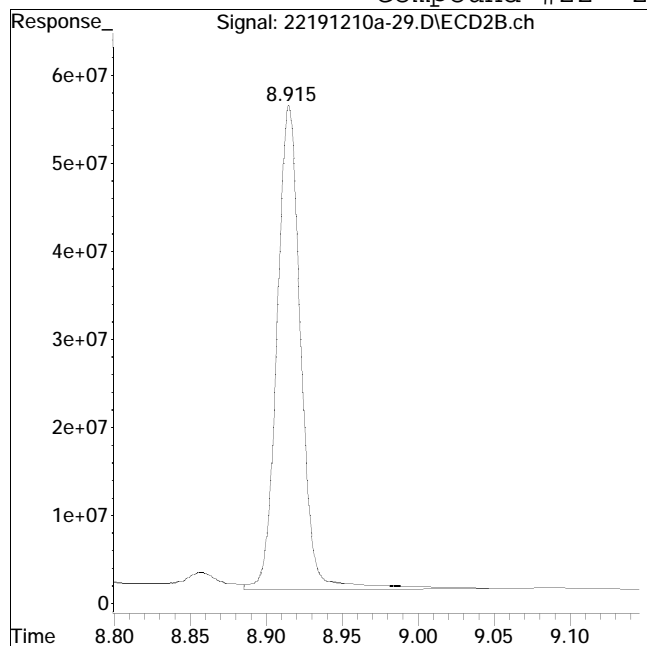
Manual Peak Response = 277318271 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest22\data\2019\191210QMethod : Herb22_19_12_08_mgL_ICAL
Data File : 22191210a-29.D Operator : pest22:jmc
Date Inj'd : 12/10/2019 8:25 pm Instrument : Pest22
Sample : wg1316266-3,42e,, t Quant Date : 12/11/2019 10:31 am

Compound #22: 2,4,5-TP (Silvex) #2



Original Peak Response = 604208713

Manual Peak Response = 572474047 M4

M4 = Poor automated baseline construction.

**Matrix Spike / Matrix Spike Duplicate
Raw Data**

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191203A\
 Data File : 17191203a-08.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 4 Dec 2019 1:39 am
 Operator : PEST17:dgm
 Sample : wg1315317-4,42e,,ms,8151
 Misc : wg1316251,wg1315317,ical16100
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 04 11:16:59 2019
 Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191203A\17191203a-01.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.623	8.634	335.3E6	366.8E6	0.250	0.250
Standard Area 1 : #1 = 468332196					Recovery =	71.59%
Standard Area 1 : #2 = 505837689					Recovery =	72.50%
System Monitoring Compounds						
3) s DCAA (surrog	7.085	7.566	83974797	120.9E6	0.386	0.411
Spiked Amount	0.500	Range 30 - 150		Recovery =	77.20%	82.20%
Target Compounds						
2) t Dalapon	2.054	2.119	74183491	88945736	0.394M4	0.385
4) t Dicamba	7.270	7.749	258.8E6	302.2E6	0.391	0.365
5) t MCPP	7.471	7.859	42703874	47056320	48.767	40.600
6) t MCPA	7.618	8.086	63642641	61877735	51.753	34.636M4
7) t Dichloroprop	7.973	8.403	78061034	117.4E6	0.427M4	0.514
8) t 2,4-D	8.184	8.677	107.5E6	117.4E6	0.434	0.361
9) t 2,4,5-TP (Si	8.895	9.332	350.1E6	421.9E6	0.370	0.407
10) t 2,4,5-T	9.112	9.620	367.0E6	431.7E6	0.368	0.410
11) t 2,4-DB	9.513f	9.979	71588331	88364706	0.438	0.472

SemiQuant Compounds - Not Calibrated on this Instrument

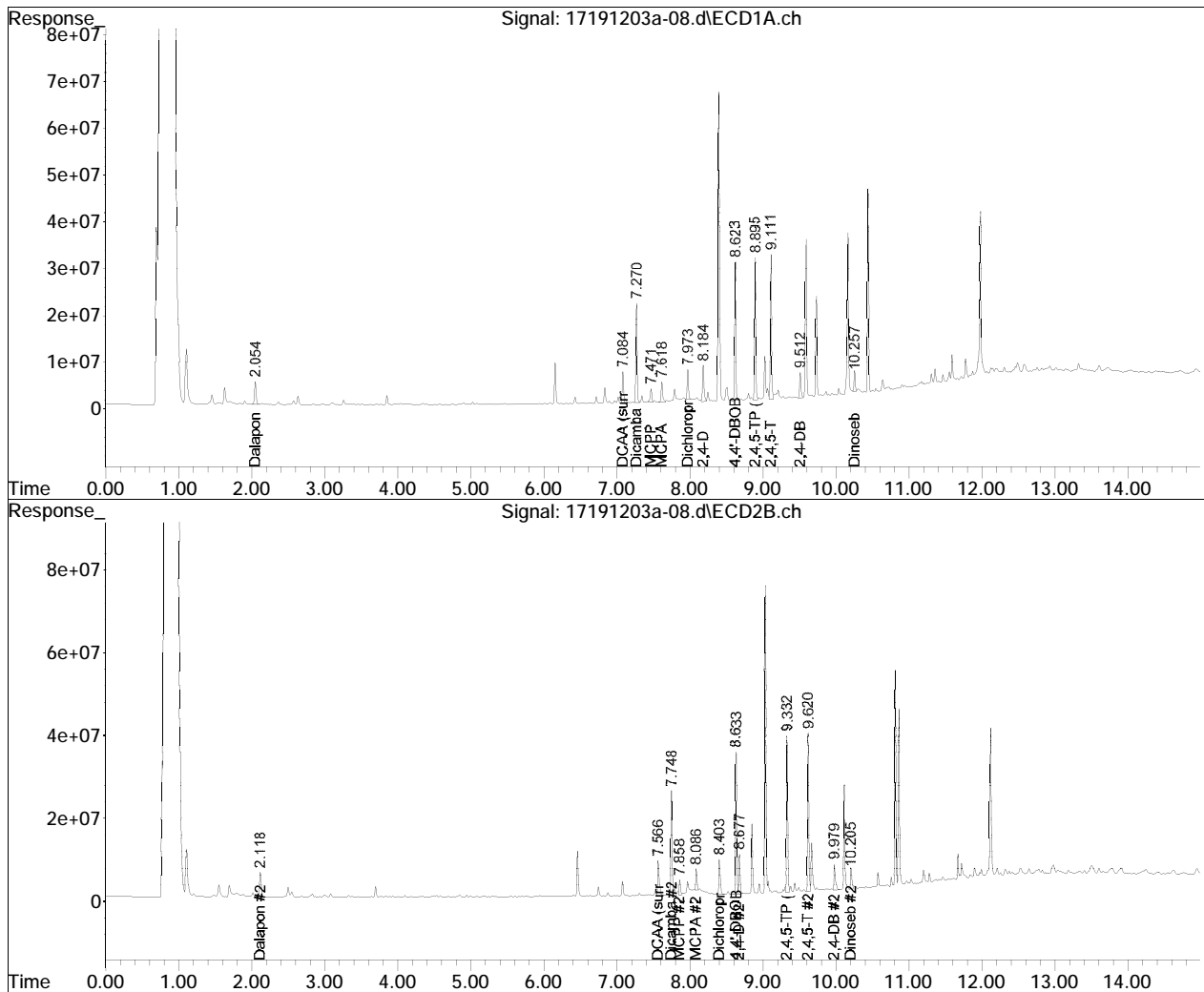
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed a-01.d••d)

Data Path : I:\Pest17\191203A\
Data File : 17191203a-08.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2019 1:39 am
Operator : PEST17:dgm
Sample : wg1315317-4,42e,,ms,8151
Misc : wg1316251,wg1315317,ical16100
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 11:16:59 2019
Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

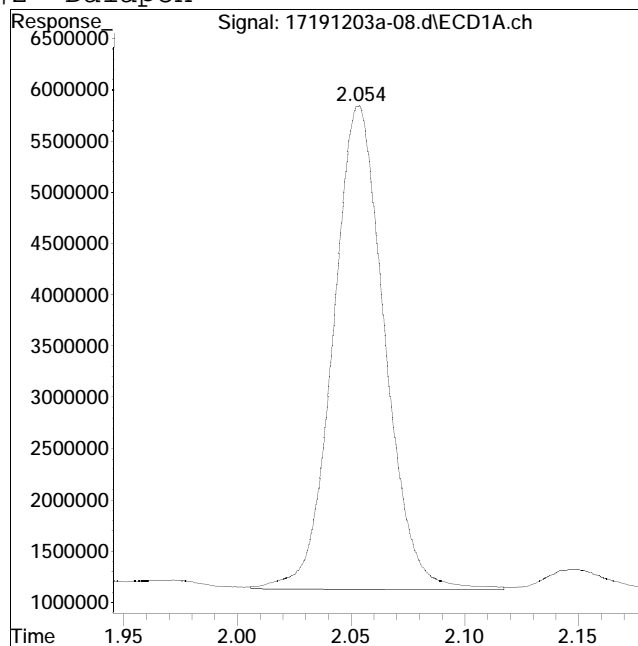
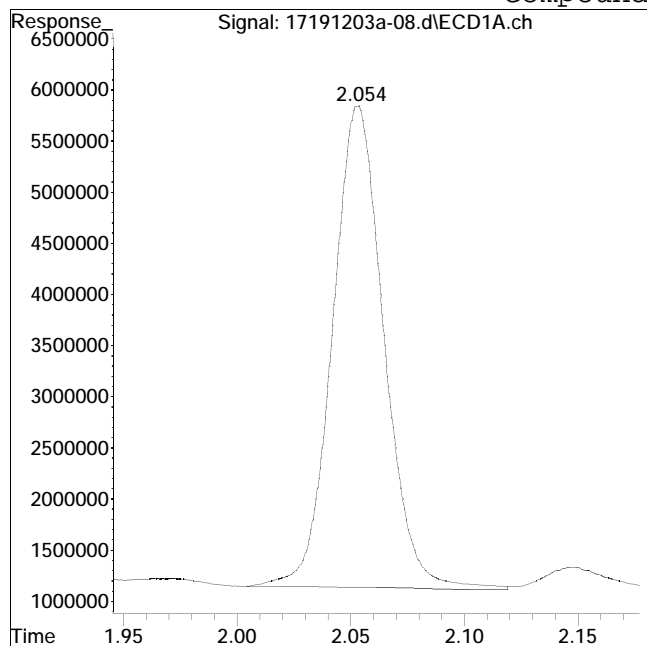
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest17\191203A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191203a-08.d Operator : PEST17:dgm
Date Inj'd : 12/4/2019 1:39 am Instrument : Pest 17
Sample : wg1315317-4,42e,,ms,8151 Quant Date : 12/4/2019 11:16 am

Compound #2: Dalapon



Original Peak Response = 74237126

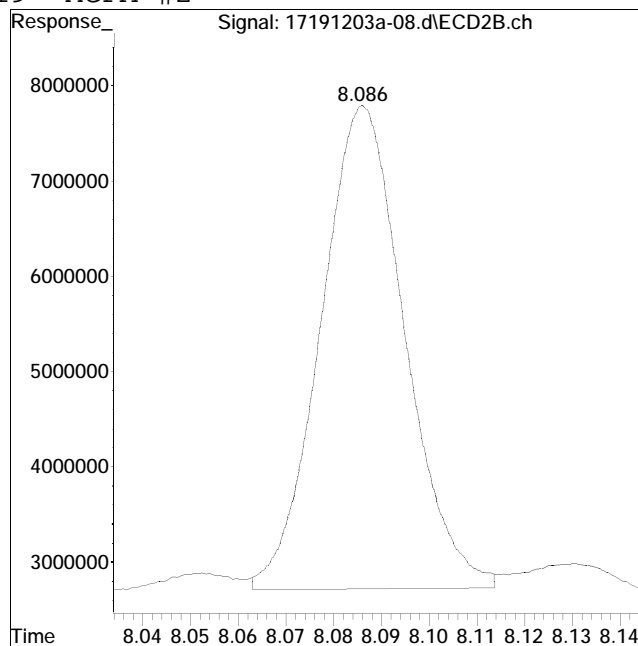
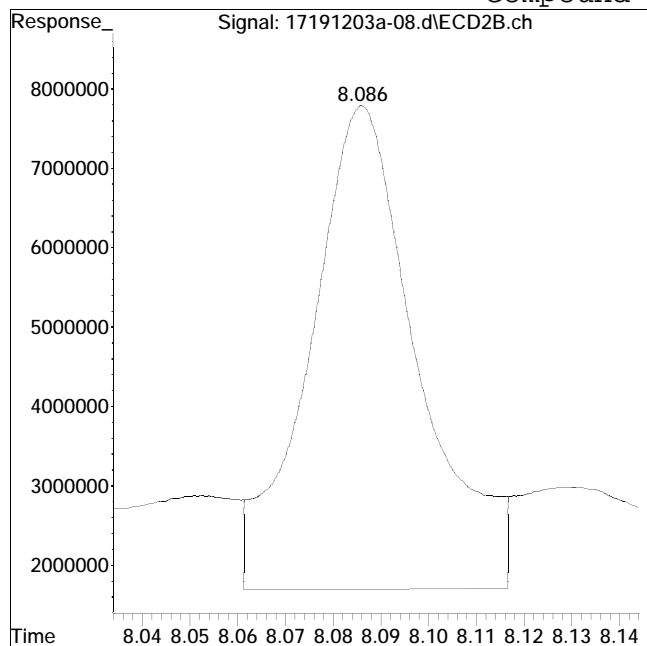
Manual Peak Response = 74183491 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191203A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191203a-08.d Operator : PEST17:dgm
Date Inj'd : 12/4/2019 1:39 am Instrument : Pest 17
Sample : wg1315317-4,42e,,ms,8151 Quant Date : 12/4/2019 11:16 am

Compound #19: MCPA #2



Original Peak Response = 96015755

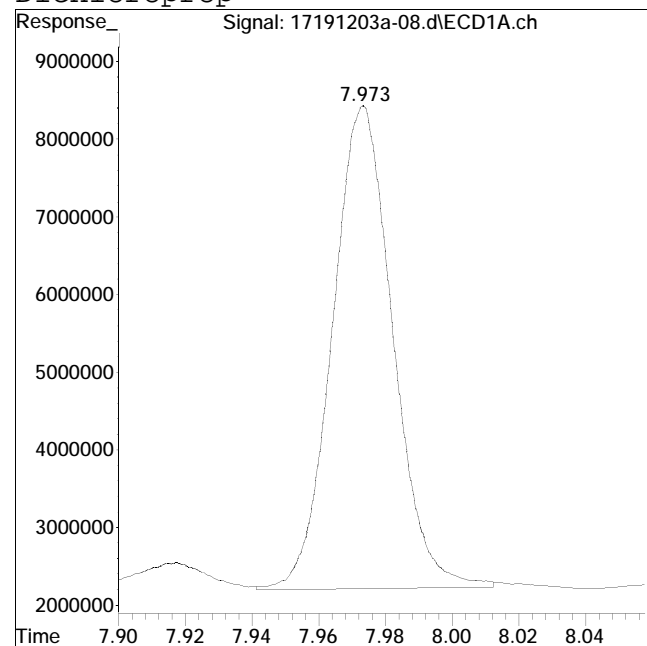
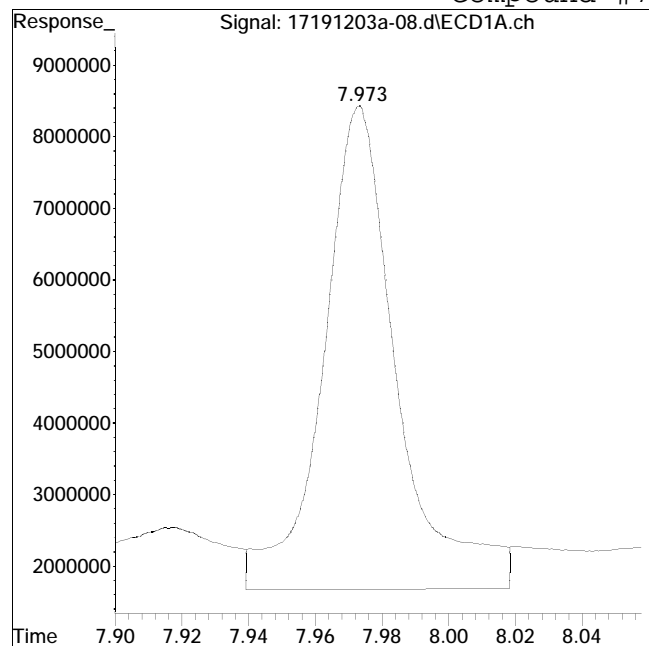
Manual Peak Response = 61877735 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191203A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191203a-08.d Operator : PEST17:dgm
Date Inj'd : 12/4/2019 1:39 am Instrument : Pest 17
Sample : wg1315317-4,42e,,ms,8151 Quant Date : 12/4/2019 11:16 am

Compound #7: Dichloroprop



Original Peak Response = 103642124

Manual Peak Response = 78061034 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191206A\
 Data File : 17191206a-90.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Dec 2019 3:21 pm
 Operator : PEST17:jmc
 Sample : wg1314990-4,42e,, 8151 MS
 Misc : wg1317631,wg1314990,ical16100
 ALS Vial : 90 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 09 17:33:50 2019
 Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Fri Dec 06 11:41:45 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191206A\17191206a-82.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.560	8.602	487.0E6	607.6E6	0.250	0.250
Standard Area 1 : #1 = 402835568					Recovery =	120.89%
Standard Area 1 : #2 = 503337357					Recovery =	120.71%
System Monitoring Compounds						
3) s DCAA (surrog	7.012	7.533	127.2E6	146.5E6	0.402	0.301
Spiked Amount	0.500	Range 30 - 150			Recovery =	80.40%
						60.20%
Target Compounds						
2) t Dalapon	2.013	2.101	134.5E6	130.1E6	0.492M4	0.340
4) t Dicamba	7.198	7.716	392.2E6	443.6E6	0.408	0.323
5) t MCPP	7.401	7.826	49526011	58521178	38.941M3	30.479M4
6) t MCPA	7.548	8.053	78569445	93553929	42.288	31.610
7) t Dichloroprop	7.903	8.370	130.4E6	144.4E6	0.503	0.374
8) t 2,4-D	8.113	8.642	145.7E6	174.2E6	0.405	0.323
9) t 2,4,5-TP (Si	8.831	9.299	492.3E6	601.4E6	0.358	0.349
10) t 2,4,5-T	9.048	9.586	507.2E6	612.8E6	0.350M4	0.351M4
11) t 2,4-DB	9.454	9.946	73645911	93934752	0.310M4	0.303

SemiQuant Compounds - Not Calibrated on this Instrument

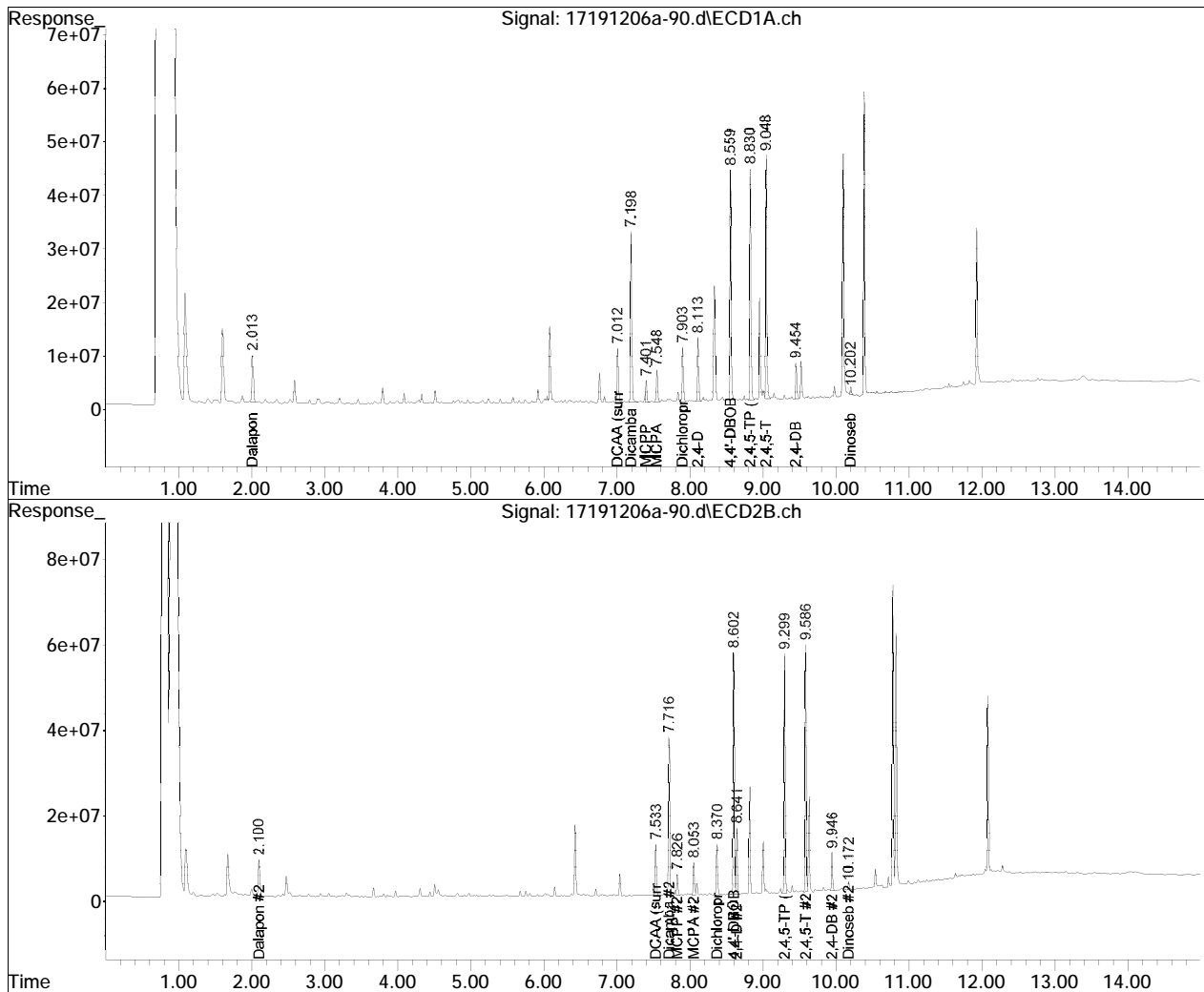
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed a-82.d••d)

Data Path : I:\Pest17\191206A\
Data File : 17191206a-90.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Dec 2019 3:21 pm
Operator : PEST17:jmc
Sample : wg1314990-4,42e,, 8151 MS
Misc : wg1317631,wg1314990,ical16100
ALS Vial : 90 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 09 17:33:50 2019
Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Fri Dec 06 11:41:45 2019
Response via : Initial Calibration
Integrator: ChemStation

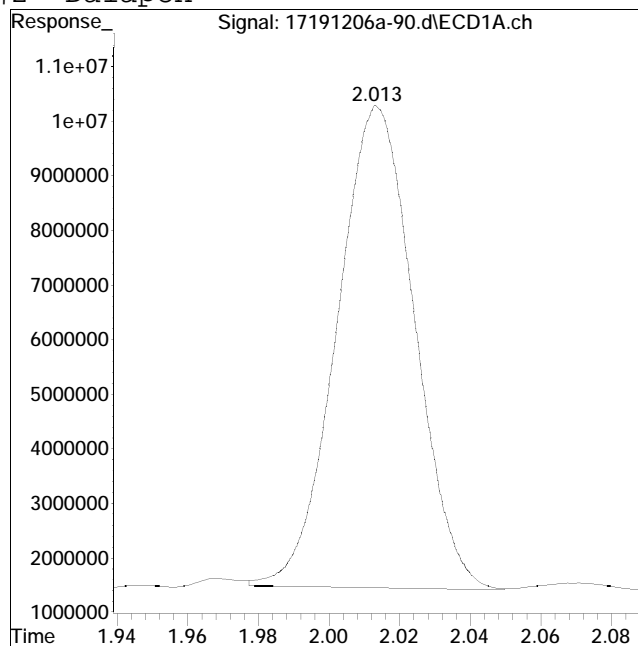
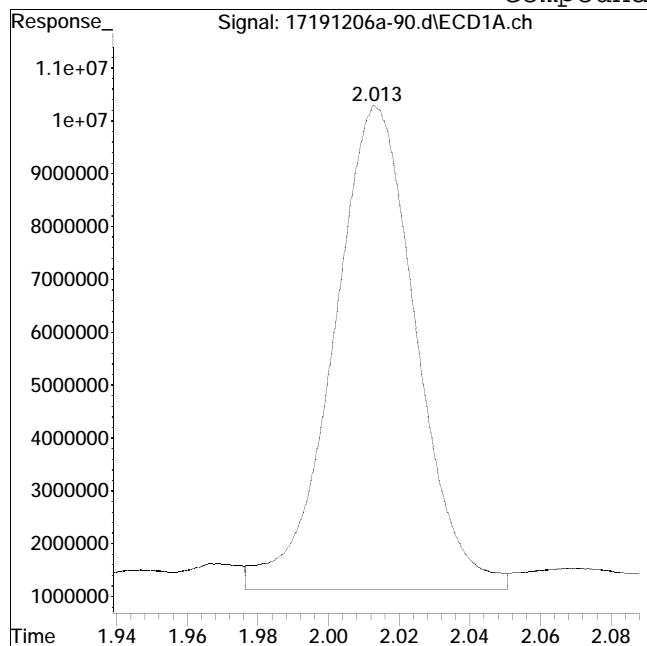
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-90.d Operator : PEST17:jmc
Date Inj'd : 12/7/2019 3:21 pm Instrument : Pest 17
Sample : wg1314990-4,42e,, 8151 MS Quant Date : 12/9/2019 5:32 pm

Compound #2: Dalapon



Original Peak Response = 148852092

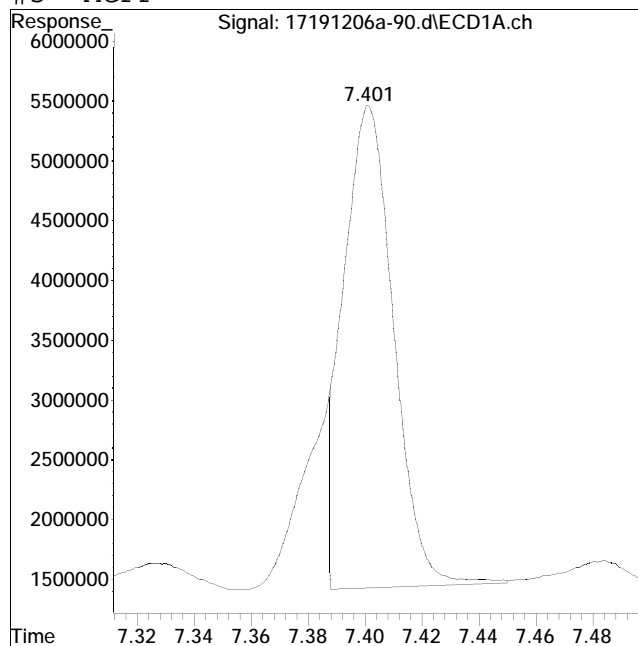
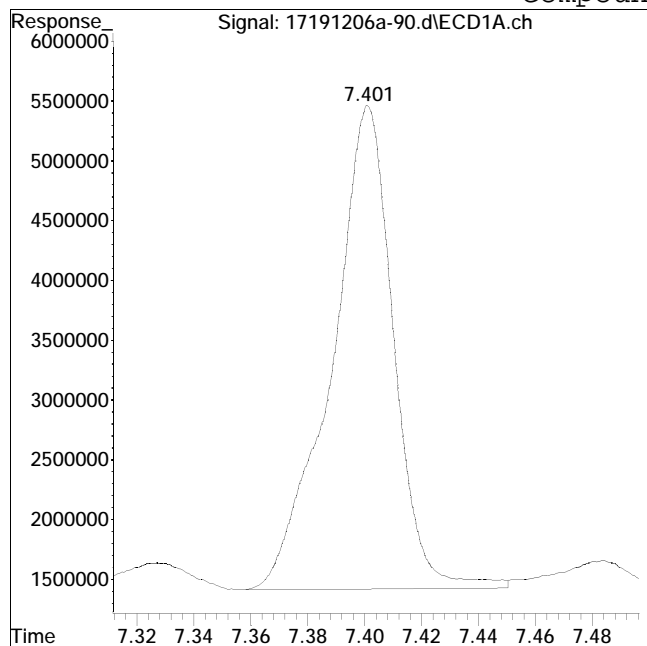
Manual Peak Response = 134512027 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-90.d Operator : PEST17:jmc
Date Inj'd : 12/7/2019 3:21 pm Instrument : Pest 17
Sample : wg1314990-4,42e,, 8151 MS Quant Date : 12/9/2019 5:32 pm

Compound #5: MCP



Original Peak Response = 61175071

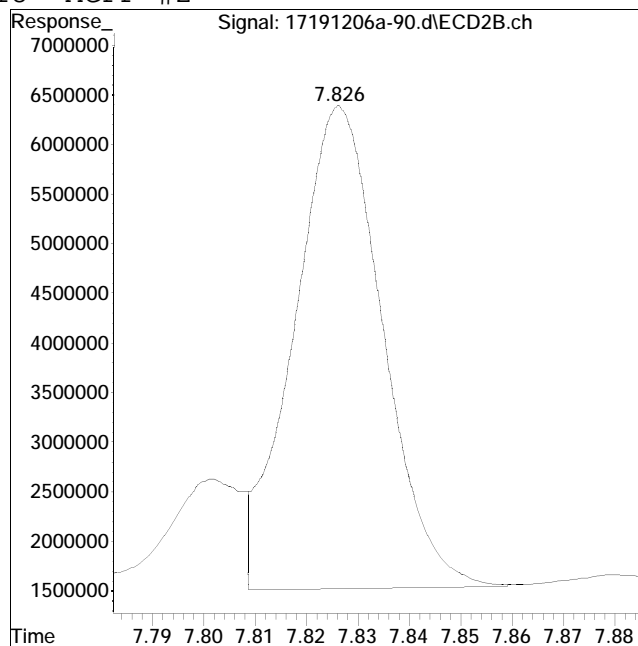
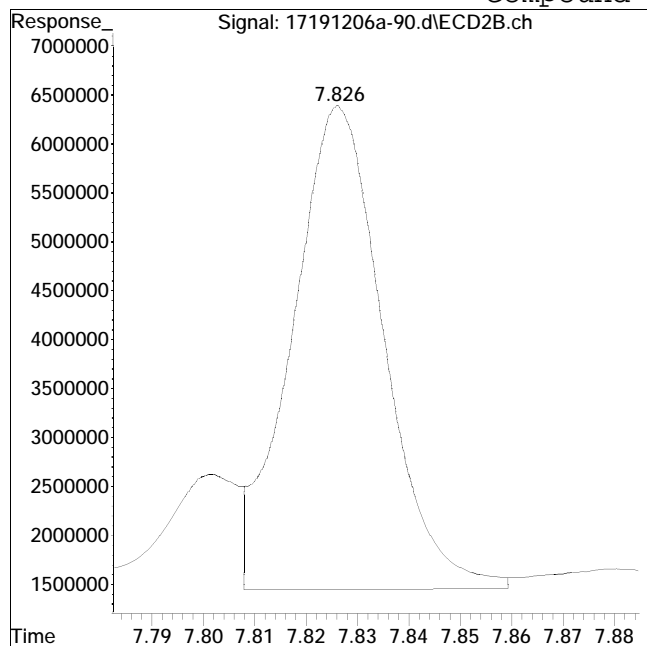
Manual Peak Response = 49526011 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-90.d Operator : PEST17:jmc
Date Inj'd : 12/7/2019 3:21 pm Instrument : Pest 17
Sample : wg1314990-4,42e,, 8151 MS Quant Date : 12/9/2019 5:32 pm

Compound #18: MCPP #2



Original Peak Response = 61449589

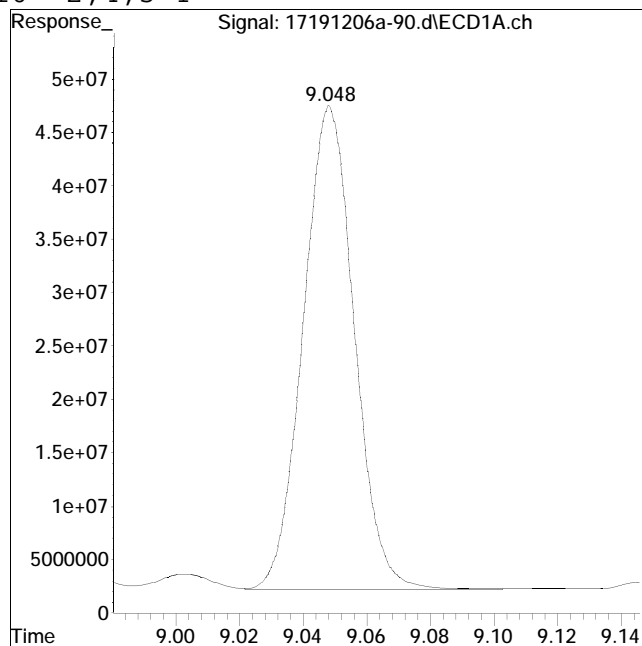
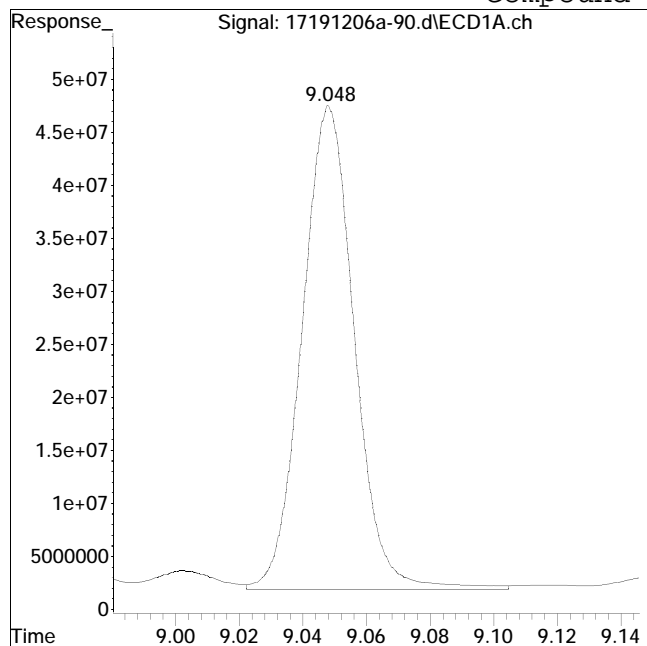
Manual Peak Response = 58521178 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-90.d Operator : PEST17:jmc
Date Inj'd : 12/7/2019 3:21 pm Instrument : Pest 17
Sample : wg1314990-4,42e,, 8151 MS Quant Date : 12/9/2019 5:32 pm

Compound #10: 2,4,5-T



Original Peak Response = 522654372

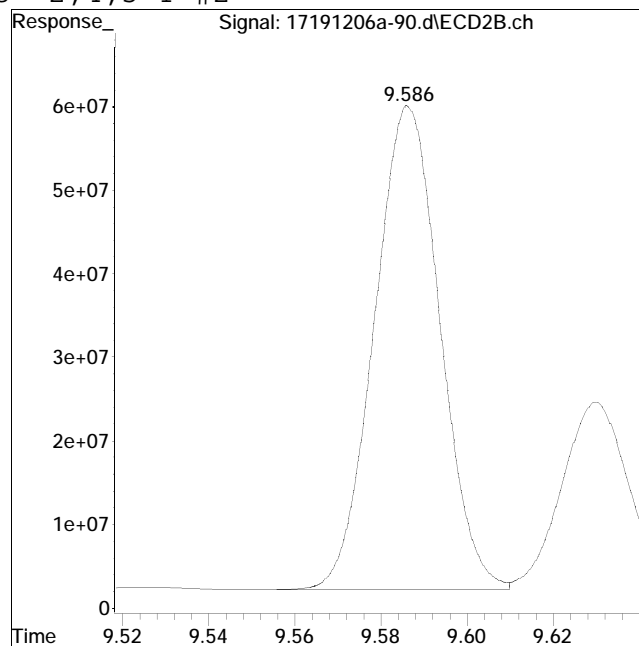
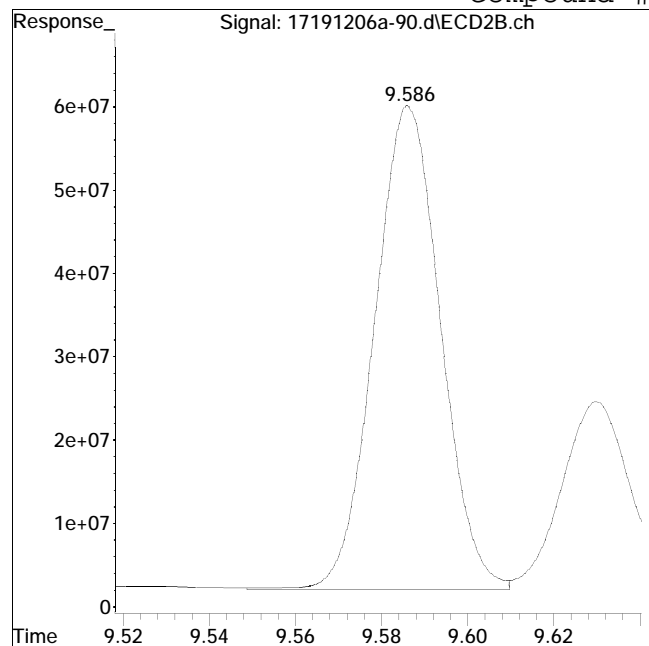
Manual Peak Response = 507231080 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-90.d Operator : PEST17:jmc
Date Inj'd : 12/7/2019 3:21 pm Instrument : Pest 17
Sample : wg1314990-4,42e,, 8151 MS Quant Date : 12/9/2019 5:32 pm

Compound #23: 2,4,5-T #2



Original Peak Response = 618926516

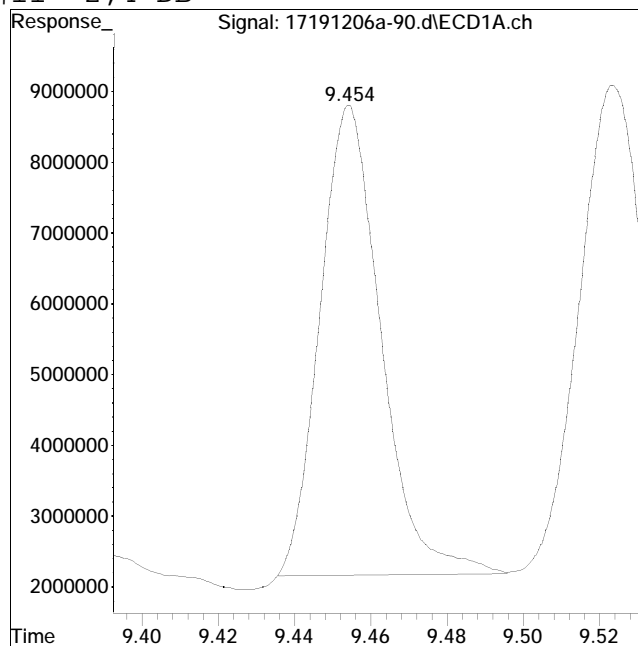
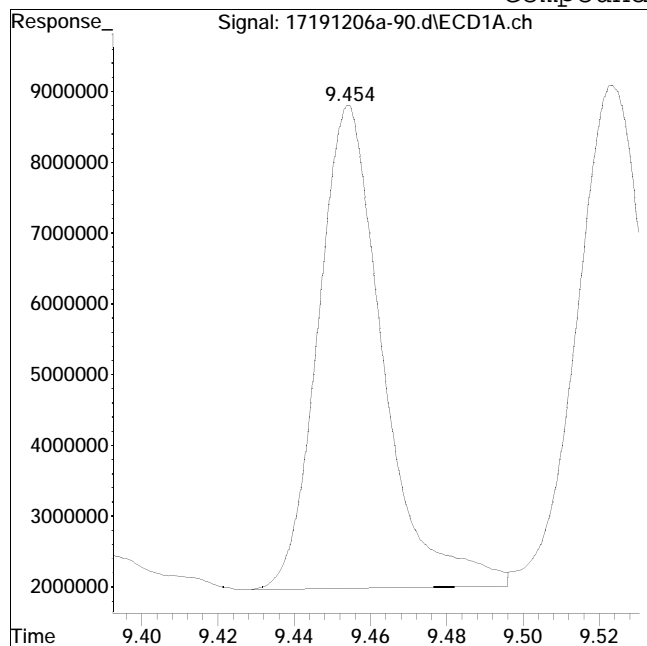
Manual Peak Response = 612764752 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-90.d Operator : PEST17:jmc
Date Inj'd : 12/7/2019 3:21 pm Instrument : Pest 17
Sample : wg1314990-4,42e,, 8151 MS Quant Date : 12/9/2019 5:32 pm

Compound #11: 2,4-DB



Original Peak Response = 80550615

Manual Peak Response = 73645911 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191203A\
 Data File : 17191203a-09.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 4 Dec 2019 1:57 am
 Operator : PEST17:dgm
 Sample : wg1315317-5,42e,,ms,8151
 Misc : wg1316251,wg1315317,ical16100
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 04 11:17:56 2019
 Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Tue Dec 03 11:27:57 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191203A\17191203a-01.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.624	8.634	344.7E6	374.5E6	0.250	0.250
Standard Area 1 : #1 = 468332196					Recovery =	73.61%
Standard Area 1 : #2 = 505837689					Recovery =	74.04%
System Monitoring Compounds						
3) s DCAA (surrog	7.085	7.566	102.1E6	141.4E6	0.456	0.471
Spiked Amount	0.500	Range 30 - 150			Recovery =	91.20%
94.20%						
Target Compounds						
2) t Dalapon	2.057	2.122	87581349	106.1E6	0.452	0.450
4) t Dicamba	7.270	7.749	314.1E6	366.1E6	0.461	0.433
5) t MCPP	7.471	7.859	47987187	53974209	53.301	45.603
6) t MCPA	7.618	8.086	68914521	73879247	55.110	40.496M4
7) t Dichloroprop	7.973	8.404	96172302	133.7E6	0.528M4	0.577
8) t 2,4-D	8.184	8.677	119.9E6	141.5E6	0.471	0.426
9) t 2,4,5-TP (Si	8.896	9.333	426.5E6	505.5E6	0.438	0.478
10) t 2,4,5-T	9.112	9.620	441.4E6	513.9E6	0.431	0.478
11) t 2,4-DB	9.513f	9.979	81713778	90775847	0.486	0.475M4
SemiQuant Compounds - Not Calibrated on this Instrument						

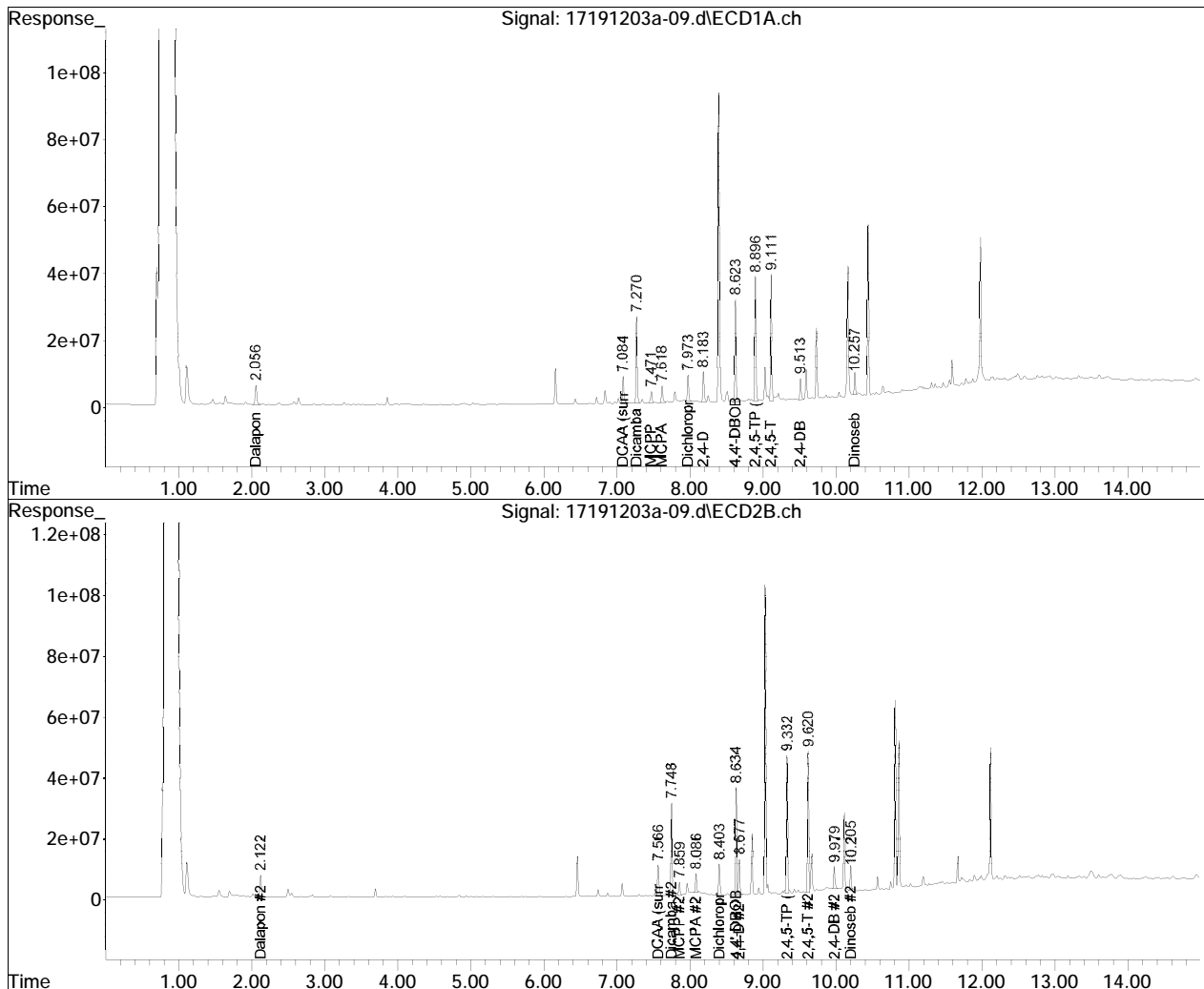
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed a-01.d••d)

Data Path : I:\Pest17\191203A\
Data File : 17191203a-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2019 1:57 am
Operator : PEST17:dgm
Sample : wg1315317-5,42e,,ms,8151
Misc : wg1316251,wg1315317,ical16100
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 11:17:56 2019
Quant Method : I:\Pest17\191203A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Tue Dec 03 11:27:57 2019
Response via : Initial Calibration
Integrator: ChemStation

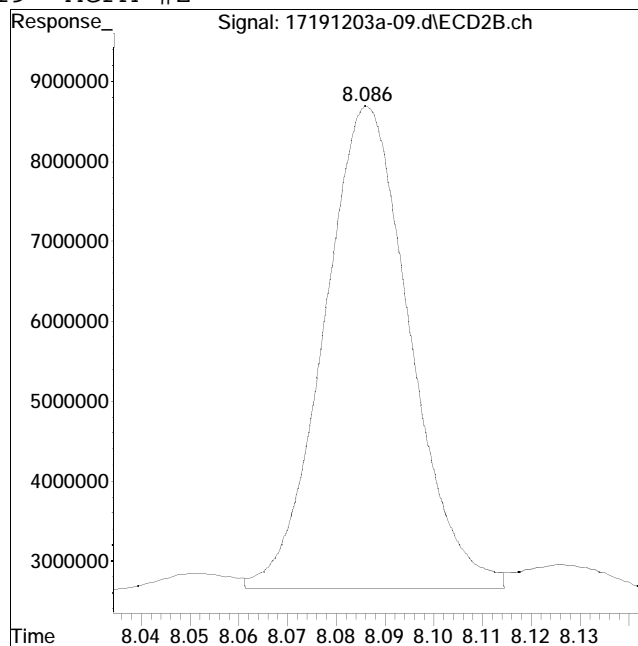
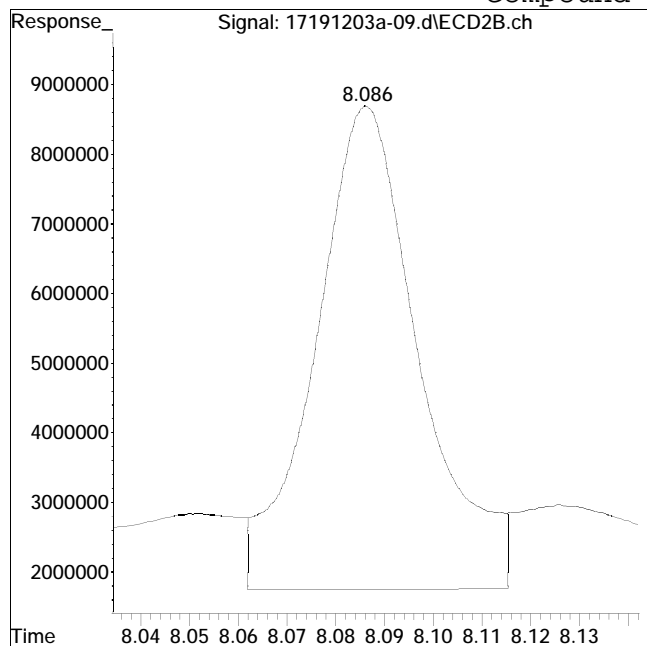
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest17\191203A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191203a-09.d Operator : PEST17:dgm
Date Inj'd : 12/4/2019 1:57 am Instrument : Pest 17
Sample : wg1315317-5,42e,,ms,8151 Quant Date : 12/4/2019 11:17 am

Compound #19: MCPA #2



Original Peak Response = 102791137

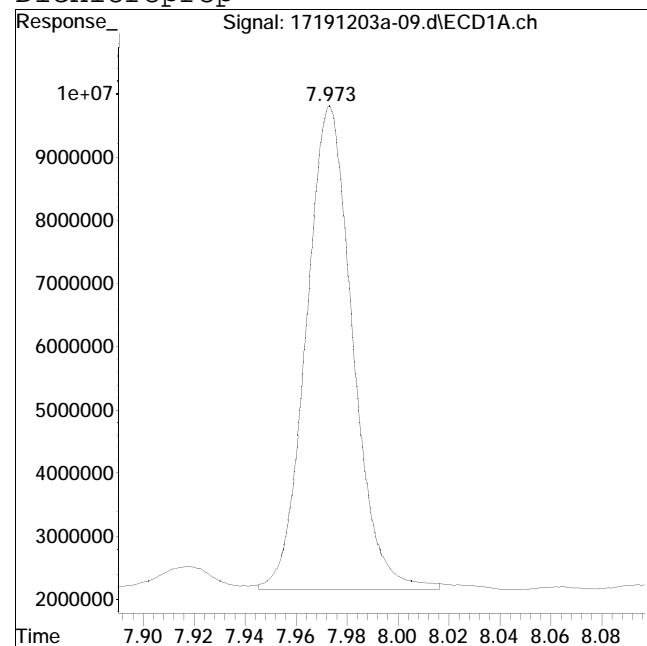
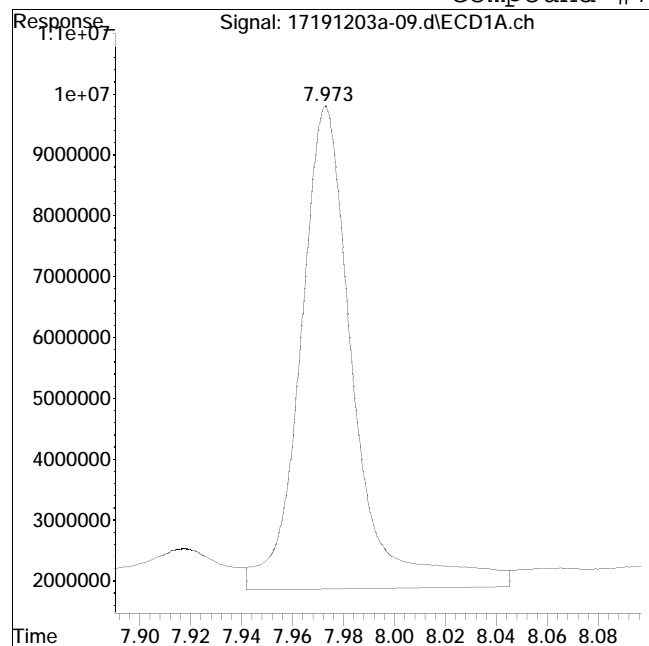
Manual Peak Response = 73879247 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191203A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191203a-09.d Operator : PEST17:dgm
Date Inj'd : 12/4/2019 1:57 am Instrument : Pest 17
Sample : wg1315317-5,42e,,ms,8151 Quant Date : 12/4/2019 11:17 am

Compound #7: Dichloroprop



Original Peak Response = 115142861

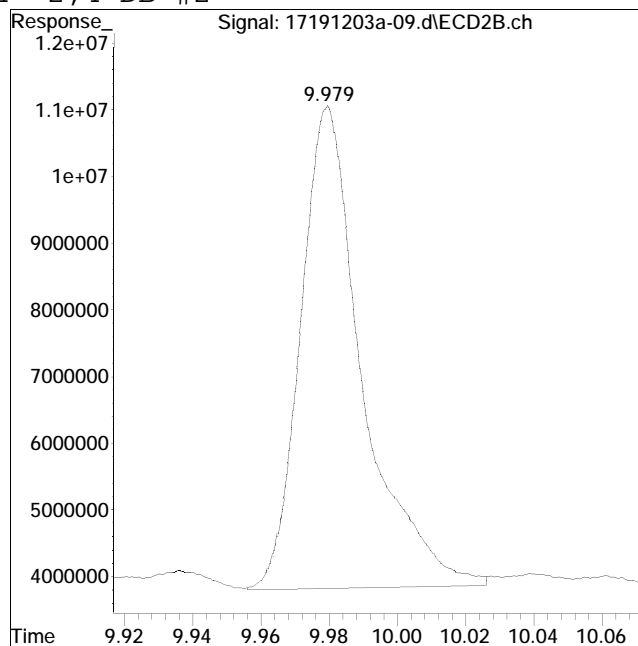
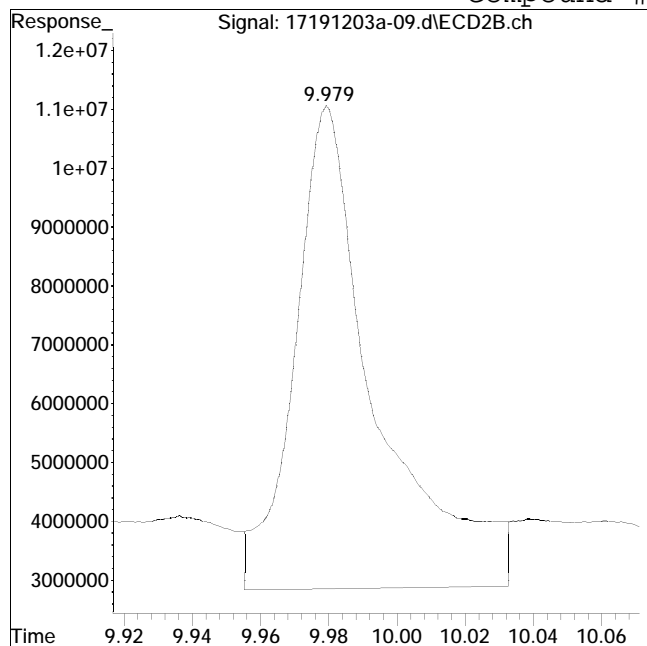
Manual Peak Response = 96172302 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191203A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191203a-09.d Operator : PEST17:dgm
Date Inj'd : 12/4/2019 1:57 am Instrument : Pest 17
Sample : wg1315317-5,42e,,ms,8151 Quant Date : 12/4/2019 11:17 am

Compound #24: 2,4-DB #2



Original Peak Response = 136203237

Manual Peak Response = 90775847 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest17\191206A\
 Data File : 17191206a-91.d
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 7 Dec 2019 3:40 pm
 Operator : PEST17:jmc
 Sample : wg1314990-5,42e,, 8151 MSD
 Misc : wg1317631,wg1314990,ical16100
 ALS Vial : 91 Sample Multiplier: 1

Integration File signal 1: events.e
 Integration File signal 2: events2.e
 Quant Time: Dec 09 17:35:50 2019
 Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
 Quant Title : herb
 QLast Update : Fri Dec 06 11:41:45 2019
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest17\191206A\17191206a-82.d
 Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.561	8.602	465.5E6	582.2E6	0.250	0.250
Standard Area 1 : #1 = 402835568					Recovery =	115.56%
Standard Area 1 : #2 = 503337357					Recovery =	115.66%
System Monitoring Compounds						
3) s DCAA (surrog	7.014	7.534	129.9E6	145.8E6	0.429M4	0.313
Spiked Amount	0.500	Range 30 - 150			Recovery =	85.80% 62.60%
Target Compounds						
2) t Dalapon	2.019	2.105	150.3E6	142.9E6	0.575M4	0.390
4) t Dicamba	7.201	7.716	407.5E6	454.3E6	0.443	0.346
5) t MCPP	7.403	7.827	51370536	63384140	42.254M3	34.453
6) t MCPA	7.550	8.054	81063088	96590529	46.543	34.061
7) t Dichloroprop	7.905	8.370	131.9E6	147.4E6	0.537	0.400
8) t 2,4-D	8.115	8.642	150.9E6	178.8E6	0.439	0.346
9) t 2,4,5-TP (Si	8.832	9.299	503.7E6	610.3E6	0.383	0.370
10) t 2,4,5-T	9.049	9.586	521.7E6	629.3E6	0.377M4	0.377M4
11) t 2,4-DB	9.455	9.947	80852929	94536047	0.356	0.318M4

SemiQuant Compounds - Not Calibrated on this Instrument

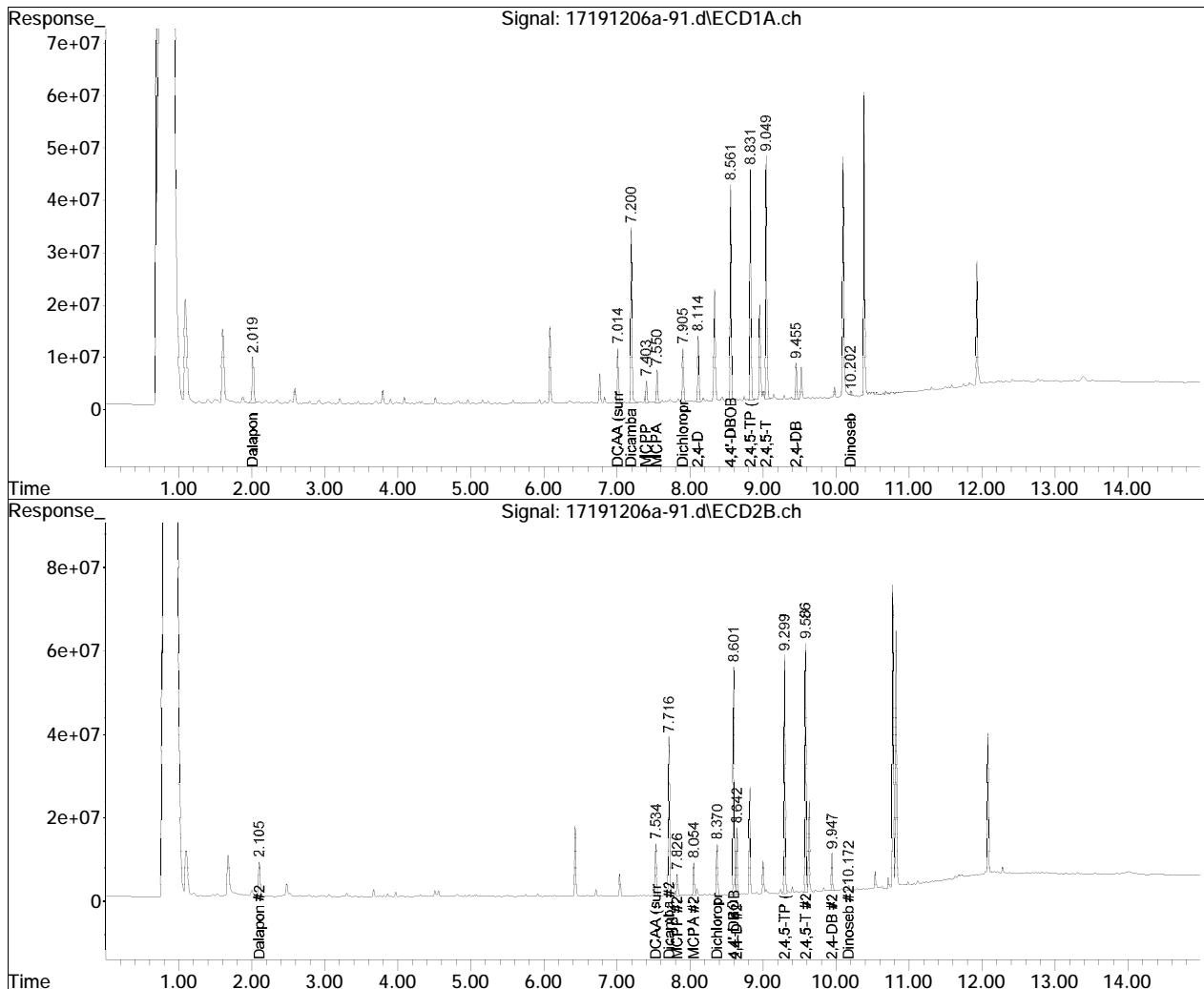
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
 (#)=Recovery Exceeds Compound Acceptance Limits.
 (I,C,F) I=Interference, C=Coeluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed a-82.d••d)

Data Path : I:\Pest17\191206A\
Data File : 17191206a-91.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Dec 2019 3:40 pm
Operator : PEST17:jmc
Sample : wg1314990-5,42e,, 8151 MSD
Misc : wg1317631,wg1314990,ical16100
ALS Vial : 91 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 09 17:35:50 2019
Quant Method : I:\Pest17\191206A\Herb17_09_03_ICAL16100.m
Quant Title : herb
QLast Update : Fri Dec 06 11:41:45 2019
Response via : Initial Calibration
Integrator: ChemStation

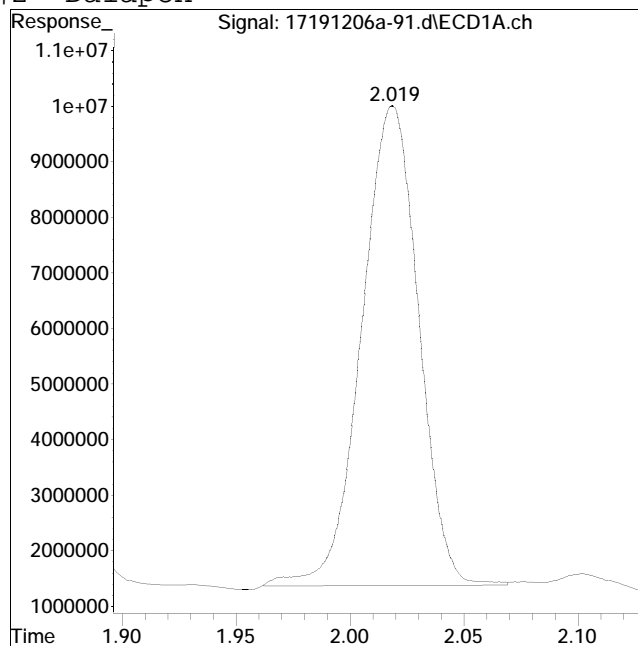
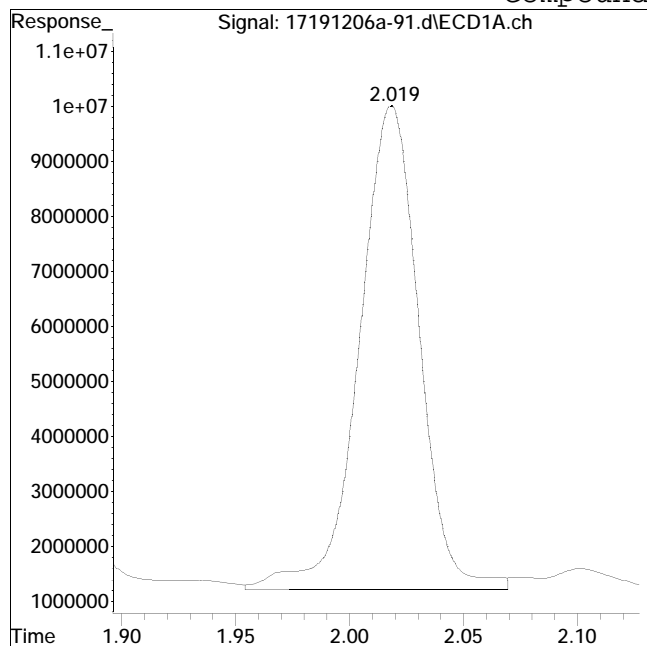
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-91.d Operator : PEST17:jmc
Date Inj'd : 12/7/2019 3:40 pm Instrument : Pest 17
Sample : wg1314990-5,42e,, 8151 MSDQuant Date : 12/9/2019 5:34 pm

Compound #2: Dalapon



Original Peak Response = 161693958

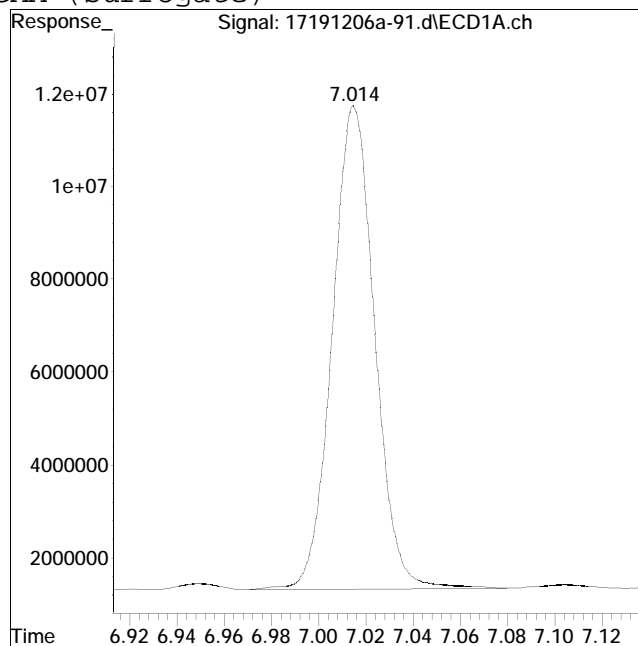
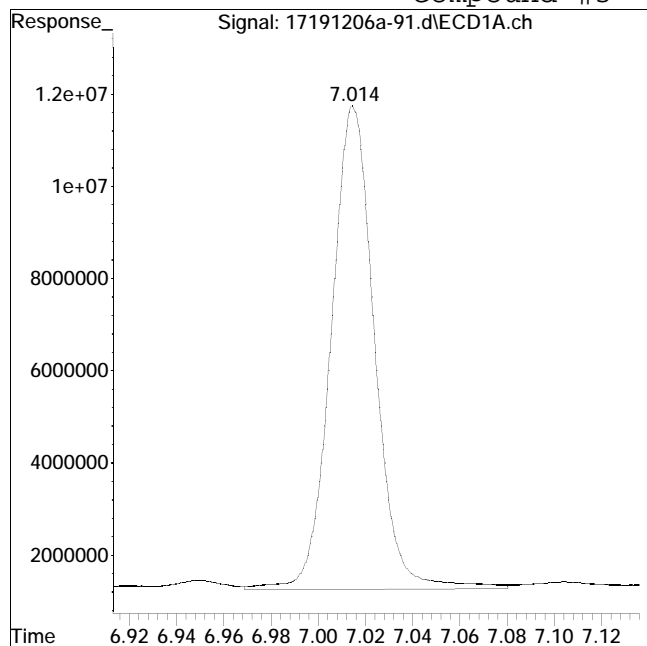
Manual Peak Response = 150279381 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-91.d Operator : PEST17:jmc
Date Inj'd : 12/7/2019 3:40 pm Instrument : Pest 17
Sample : wg1314990-5,42e,, 8151 MSDQuant Date : 12/9/2019 5:34 pm

Compound #3: DCAA (surrogate)



Original Peak Response = 134556430

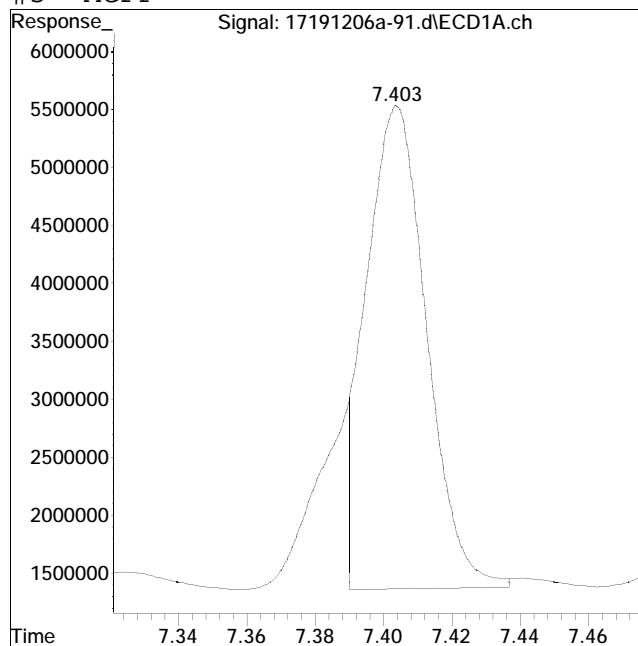
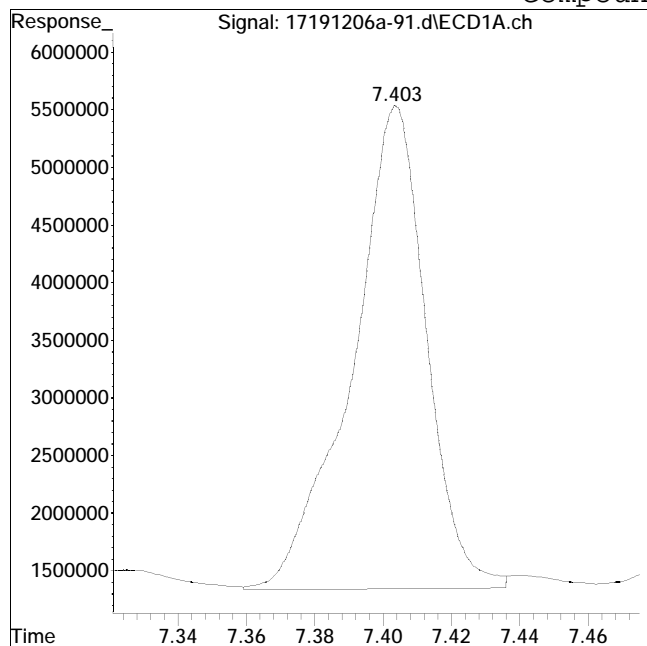
Manual Peak Response = 129876707 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-91.d Operator : PEST17:jmc
Date Inj'd : 12/7/2019 3:40 pm Instrument : Pest 17
Sample : wg1314990-5,42e,, 8151 MSDQuant Date : 12/9/2019 5:34 pm

Compound #5: MCP



Original Peak Response = 63133413

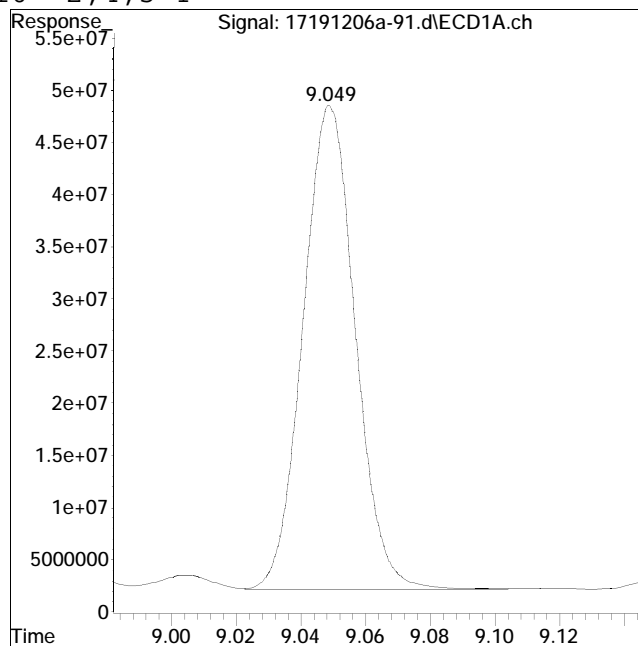
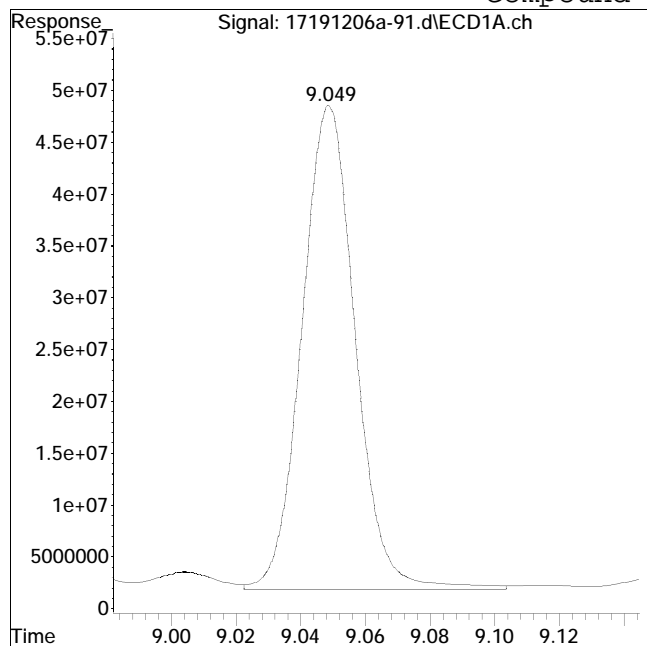
Manual Peak Response = 51370536 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-91.d Operator : PEST17:jmc
Date Inj'd : 12/7/2019 3:40 pm Instrument : Pest 17
Sample : wg1314990-5,42e,, 8151 MSDQuant Date : 12/9/2019 5:34 pm

Compound #10: 2,4,5-T



Original Peak Response = 537559370

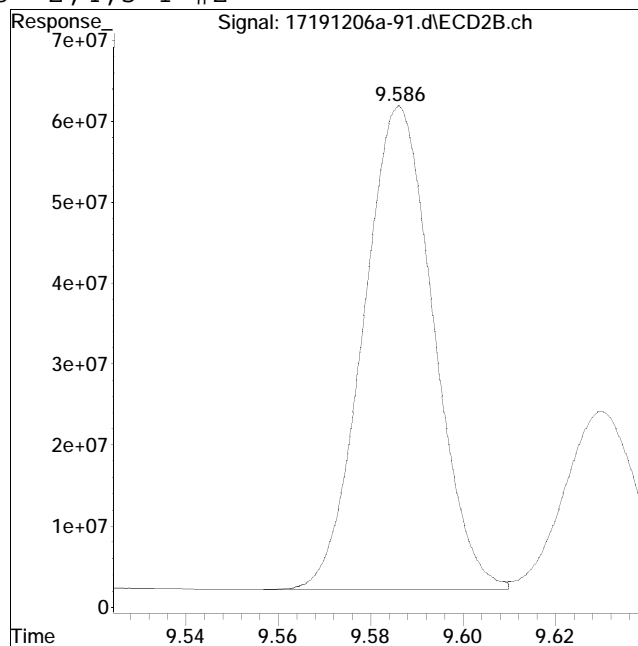
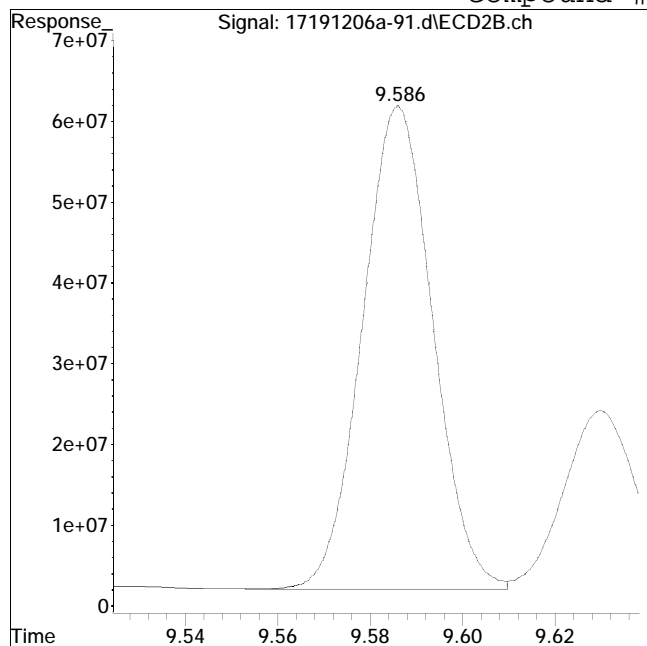
Manual Peak Response = 521725169 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-91.d Operator : PEST17:jmc
Date Inj'd : 12/7/2019 3:40 pm Instrument : Pest 17
Sample : wg1314990-5,42e,, 8151 MSDQuant Date : 12/9/2019 5:34 pm

Compound #23: 2,4,5-T #2



Original Peak Response = 634200426

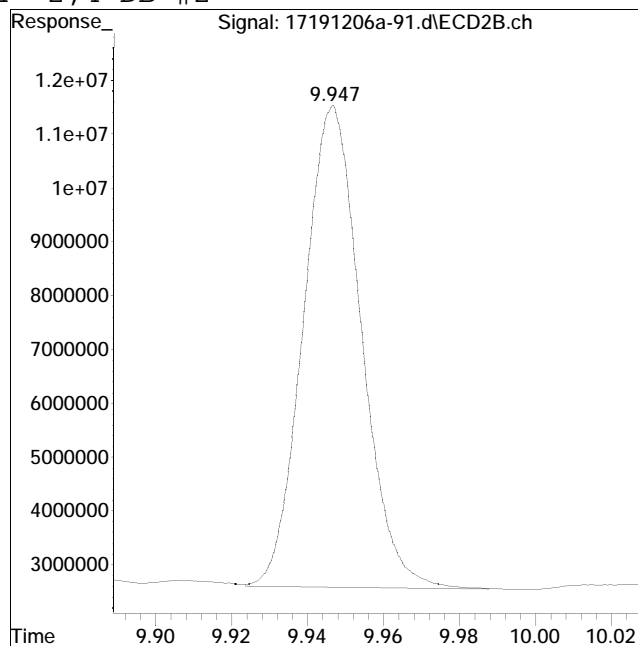
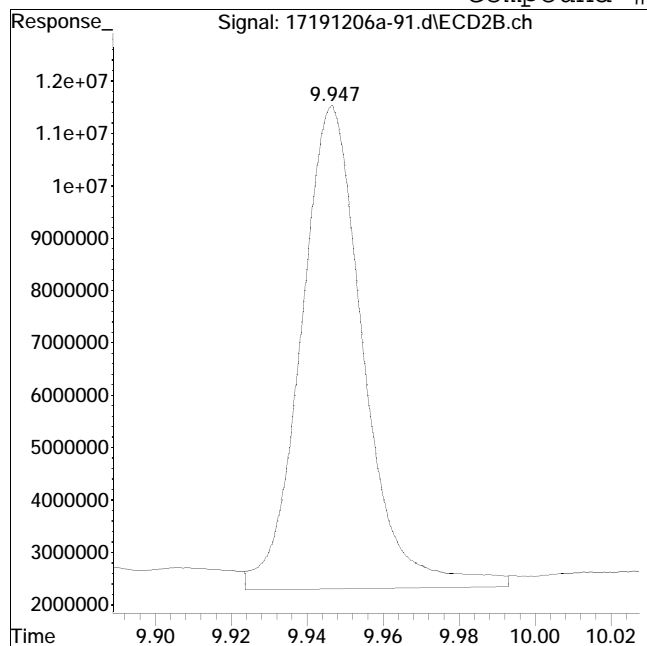
Manual Peak Response = 629257712 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest17\191206A\ QMethod : Herb17_09_03_ICAL16100.m
Data File : 17191206a-91.d Operator : PEST17:jmc
Date Inj'd : 12/7/2019 3:40 pm Instrument : Pest 17
Sample : wg1314990-5,42e,, 8151 MSDQuant Date : 12/9/2019 5:34 pm

Compound #24: 2,4-DB #2



Original Peak Response = 105377898

Manual Peak Response = 94536047 M4

M4 = Poor automated baseline construction.

Sample Preparation

Workgroup: WG1314990

<p>Prep Method: EPA 8151A Solvent Type: DCM/Acetone Lot #: AD112419 Surrogate Type: Herbicide Lot #: PP9529 Spike Type: Herbicides Lot #: PP9530 Spike Verify by: SD Lims Spikelot: HERB8151</p> <p>Additional Reagents/Std</p> <table border="1"> <tr><td>Acidified Na2SO4</td><td>AS112719</td></tr> <tr><td>DCM</td><td>DX536</td></tr> <tr><td>H2SO4</td><td>2019081325</td></tr> </table>	Acidified Na2SO4	AS112719	DCM	DX536	H2SO4	2019081325	<p>Conc.Method: S-EVAP/N-EVAP Solvent Type: Diethyl ether Lot #: 19080331</p> <p>Additional Reagents/Std</p> <table border="1"> <tr><td>12N H2SO4</td><td>12N112419</td></tr> <tr><td>37% KOH</td><td>K102119</td></tr> <tr><td>Acidified Na2SO4</td><td>AS112719</td></tr> <tr><td>DCM</td><td>DX536</td></tr> <tr><td>Diazomethane</td><td>D112719</td></tr> <tr><td>Hexane</td><td>DX463</td></tr> <tr><td>Isooctane</td><td>STBH3075</td></tr> <tr><td>Methanol</td><td>59164</td></tr> <tr><td>Silicic Acid</td><td>MKCD7973</td></tr> </table>	12N H2SO4	12N112419	37% KOH	K102119	Acidified Na2SO4	AS112719	DCM	DX536	Diazomethane	D112719	Hexane	DX463	Isooctane	STBH3075	Methanol	59164	Silicic Acid	MKCD7973	<p>Cleanup 1</p> <p>Cleanup Method 1: Cleanup Method 2: Solvent Type: Lot #:</p> <p>Additional Reagents/Std</p>
Acidified Na2SO4	AS112719																									
DCM	DX536																									
H2SO4	2019081325																									
12N H2SO4	12N112419																									
37% KOH	K102119																									
Acidified Na2SO4	AS112719																									
DCM	DX536																									
Diazomethane	D112719																									
Hexane	DX463																									
Isooctane	STBH3075																									
Methanol	59164																									
Silicic Acid	MKCD7973																									

Extraction

Concentration

Sample/Type	Extraction							Concentration						
	Extract Date	Analyst	Sample Weight g	Balance Id	Ph	Surr Amt ml	Spike Amt ml	Extract Unit Id	Conc Date	Analyst	Ph	Conc Volume	Hydrolysis Stop	
L1956104-01 SOIL	11/28/19 08:29	Samy Dakkash	30.27	#39	<2	.5		3	11/29/19 20:04	Armia Rashed	<2,>12	0.5	11/28/19 11:40	11/28/19 13:10
L1956104-02 SOIL	11/28/19 08:29	Samy Dakkash	30.20	#39	<2	.5		4	11/29/19 12:45	Sam Boateng	<2,>12	0.5	11/28/19 11:40	11/28/19 13:10
L1956104-03 SOIL	11/28/19 08:29	Samy Dakkash	30.75	#39	<2	.5		4	11/29/19 12:45	Sam Boateng	<2,>12	0.5	11/28/19 11:40	11/28/19 13:10
L1956104-04 SOIL	11/28/19 08:29	Samy Dakkash	30.98	#39	<2	.5		3	11/29/19 12:45	Sam Boateng	<2,>12	0.5	11/28/19 11:40	11/28/19 13:10
L1956104-05 SOIL	11/28/19 08:29	Samy Dakkash	30.76	#39	<2	.5		3	11/29/19 12:45	Sam Boateng	<2,>12	0.5	11/28/19 11:40	11/28/19 13:10

Workgroup: WG1314990

Sample/ Type	Extraction							Concentration						
	Extract Date	Analyst	Sample Weight g	Balanc e Id	Ph	Surr Amt ml	Spike Amt ml	Extract Unit Id	Conc Date	Analyst	Ph	Conc Volume	Hydro lysis Stop	
L1956104-06 SOIL	11/28/19 08:29	Samy Dakkash	30.17	#39	<2	.5		4	11/29/19 12:45	Sam Boateng	<2,>12	0.5	11/28/1 9 11:40	11/28/1 9 13:10
L1956104-07 SOIL	11/28/19 08:29	Samy Dakkash	30.52	#39	<2	.5		4	11/29/19 12:45	Sam Boateng	<2,>12	0.5	11/28/1 9 11:40	11/28/1 9 13:10
L1956104-08 SOIL	11/28/19 08:29	Samy Dakkash	30.95	#39	<2	.5		3	11/29/19 12:45	Sam Boateng	<2,>12	0.5	11/28/1 9 11:40	11/28/1 9 13:10
L1957320-01 SOIL	11/28/19 08:29	Samy Dakkash	30.62	#39	<2	.5		3	11/29/19 12:45	Sam Boateng	<2,>12	0.5	11/28/1 9 11:40	11/28/1 9 13:10
L1957321-01 SOIL	11/28/19 08:29	Samy Dakkash	30.81	#39	<2	.5		4	11/29/19 12:45	Sam Boateng	<2,>12	0.5	11/28/1 9 11:40	11/28/1 9 13:10
L1957339-03 SAMP	11/28/19 08:29	Samy Dakkash	30.40	#39	<2	.5		4	11/29/19 12:45	Sam Boateng	<2,>12	0.5	11/28/1 9 11:40	11/28/1 9 13:10
L1957339-04 SAMP	11/28/19 08:29	Samy Dakkash	30.51	#39	<2	.5		3	11/29/19 12:45	Sam Boateng	<2,>12	0.5	11/28/1 9 11:40	11/28/1 9 13:10
L1957339-05 SAMP	11/28/19 08:29	Samy Dakkash	30.54	#39	<2	.5		3	11/29/19 12:45	Sam Boateng	<2,>12	0.5	11/28/1 9 11:40	11/28/1 9 13:10
L1957339-07 SAMP	11/28/19 07:36	Samy Dakkash	30.35	#39	<2	.5		3	11/29/19 12:45	Sam Boateng	<2,>12	0.5	11/28/1 9 11:40	11/28/1 9 13:10
L1957339-08 SAMP	11/28/19 07:36	Samy Dakkash	30.40	#39	<2	.5		4	11/29/19 12:45	Sam Boateng	<2,>12	0.5	11/28/1 9 11:40	11/28/1 9 13:10

Workgroup: WG1314990

Sample/ Type	Extraction								Concentration					
	Extract Date	Analyst	Sample Weight g	Balanc e Id	Ph	Surr Amt ml	Spike Amt ml	Extract Unit Id	Conc Date	Analyst	Ph	Conc Volume	Hydroly sis Stop	
L1957339-11 SAMP	11/28/19 07:36	Samy Dakkash	30.29	#39	<2	.5		4	11/29/19 12:45	Sam Boateng	<2,>12	0.5	11/28/19 11:40	11/28/19 13:10
L1957339-12 SAMP	11/28/19 07:36	Samy Dakkash	30.68	#39	<2	.5		3	11/29/19 12:45	Sam Boateng	<2,>12	0.5	11/28/19 11:40	11/28/19 13:10
L1957339-13 SAMP	11/28/19 07:36	Samy Dakkash	30.49	#39	<2	.5		3	11/29/19 12:45	Sam Boateng	<2,>12	0.5	11/28/19 11:40	11/28/19 13:10
WG1314990-1 BLANK	11/28/19 07:36	Samy Dakkash	30.82	#39	<2	.5		3	11/29/19 12:45	Sam Boateng	<2,>12	0.5	11/28/19 11:40	11/28/19 13:10
WG1314990-2 LCS	11/28/19 07:36	Samy Dakkash	30.47	#39	<2	.5	.5	3	11/29/19 12:45	Sam Boateng	<2,>12	0.5	11/28/19 11:40	11/28/19 13:10
WG1314990-3 LCSD	11/28/19 07:36	Samy Dakkash	30.89	#39	<2	.5	.5	4	11/29/19 12:45	Sam Boateng	<2,>12	0.5	11/28/19 11:40	11/28/19 13:10
WG1314990-4 MS	11/28/19 07:36	Samy Dakkash	30.39	#39	<2	.5	.5	4	11/29/19 12:45	Sam Boateng	<2,>12	0.5	11/28/19 11:40	11/28/19 13:10
WG1314990-5 MSD	11/28/19 07:36	Samy Dakkash	30.69	#39	<2	.5	.5	3	11/29/19 12:45	Sam Boateng	<2,>12	0.5	11/28/19 11:40	11/28/19 13:10

Workgroup: WG1315021

<p>Prep Method: EPA 8151A Solvent Type: Diethyl ether Lot #: 19080331 Surrogate Type: Herbicide Lot #: 9529 Spike Type: Herbicides Lot #: 9530 Spike Verify by: AR Lims Spikelot: HERB8151</p> <p>Additional Reagents/Std's</p> <table border="1"> <tr><td>12N H2SO4</td><td>12A112419</td></tr> <tr><td>25% NaOH</td><td>NA112119</td></tr> <tr><td>Acidified Na2SO4</td><td>AS112819</td></tr> <tr><td>DCM</td><td>DX536</td></tr> <tr><td>Diethyl ether</td><td>19080331</td></tr> <tr><td>Na2S2O3</td><td>NA</td></tr> <tr><td>NaCl</td><td>0000232882</td></tr> </table>	12N H2SO4	12A112419	25% NaOH	NA112119	Acidified Na2SO4	AS112819	DCM	DX536	Diethyl ether	19080331	Na2S2O3	NA	NaCl	0000232882	<p>Conc.Method: S-EVAP/N-EVAP Solvent Type: Diethyl ether Lot #: 19080331</p> <p>Additional Reagents/Std's</p> <table border="1"> <tr><td>Acidified Na2SO4</td><td>AS113019</td></tr> <tr><td>Diazomethane</td><td>D113019</td></tr> <tr><td>Hexane</td><td>DX463</td></tr> <tr><td>Isooctane</td><td>STBH3075</td></tr> <tr><td>Methanol</td><td>59164</td></tr> <tr><td>Silicic Acid</td><td>MKCD7973</td></tr> </table>	Acidified Na2SO4	AS113019	Diazomethane	D113019	Hexane	DX463	Isooctane	STBH3075	Methanol	59164	Silicic Acid	MKCD7973	<p>Cleanup 1</p> <p>Cleanup Method 1: Cleanup Method 2: Solvent Type: Lot #:</p> <p>Additional Reagents/Std's</p>
12N H2SO4	12A112419																											
25% NaOH	NA112119																											
Acidified Na2SO4	AS112819																											
DCM	DX536																											
Diethyl ether	19080331																											
Na2S2O3	NA																											
NaCl	0000232882																											
Acidified Na2SO4	AS113019																											
Diazomethane	D113019																											
Hexane	DX463																											
Isooctane	STBH3075																											
Methanol	59164																											
Silicic Acid	MKCD7973																											

Extraction

Concentration

Sample Type	Extract Date	Analyst	Sample Vol ml	Ph	Trc	Surr Amt ml	Spike Amt ml	Hydroly sis Start	Hydroly sis Stop	Conc Date	Analyst	Conc Volume ml	Methyl ation Date	ml ml	Conc Unit
L1957339-01 SAMP	11/28/19 14:48	Armia Rashed	1000	<12,>12	-	.5		11/28/19 9 15:30	11/28/19 9 17:00	11/30/19 05:03	Samy Dakkash	0.5	11/30/19 9 05:03	10	I&D,N# 3
OK to proceed OOH for HERB															
L1957339-02 SAMP	11/28/19 14:48	Armia Rashed	1000	<12,>12	-	.5		11/28/19 9 15:30	11/28/19 9 17:00	11/30/19 05:03	Samy Dakkash	0.5	11/30/19 9 05:03	10	I&D,N# 3
OK to proceed OOH for HERB															
WG1315021-1 BLANK	11/28/19 14:48	Armia Rashed	1000	<12,>12	-	.5		11/28/19 9 15:30	11/28/19 9 17:00	11/30/19 05:03	Samy Dakkash	0.5	11/30/19 9 05:03	10	I&D,N# 3
WG1315020															
WG1315021-2 LCS	11/28/19 14:48	Armia Rashed	1000	<12,>12	-	.5	.5	11/28/19 9 15:30	11/28/19 9 17:00	11/30/19 05:03	Samy Dakkash	0.5	11/30/19 9 05:03	10	I&D,N# 3
WG1315021-3 LCSD	11/28/19 14:48	Armia Rashed	1000	<12,>12	-	.5	.5	11/28/19 9 15:30	11/28/19 9 17:00	11/30/19 05:03	Samy Dakkash	0.5	11/30/19 9 05:03	10	I&D,N# 3

Workgroup: WG1316266

<p>Prep Method: EPA 8151A Solvent Type: Diethyl ether Lot #: 19080331 Surrogate Type: Herbicide Lot #: PP9623 Spike Type: Herbicides Lot #: PP9530 Spike Verify by: SD Lims Spikelot: HERB8151 Additional Reagents/Std's TCLP Extraction Date 11/30/19 13:36</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>12N H2SO4</td><td>12A120219</td></tr> <tr><td>25% NaOH</td><td>NA112119</td></tr> <tr><td>Acidified Na2SO4</td><td>AS120319</td></tr> <tr><td>DCM</td><td>DX553</td></tr> <tr><td>Diethyl ether</td><td>19080331</td></tr> <tr><td>Na2S2O3</td><td>NA</td></tr> <tr><td>NaCl</td><td>0000232882</td></tr> </table>	12N H2SO4	12A120219	25% NaOH	NA112119	Acidified Na2SO4	AS120319	DCM	DX553	Diethyl ether	19080331	Na2S2O3	NA	NaCl	0000232882	<p>Conc.Method: S-EVAP/N-EVAP Solvent Type: Benzene Lot #: SHBK7357</p> <p>Additional Reagents/Std's</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>Acidified Na2SO4</td><td>AS120419</td></tr> <tr><td>BF3 Methanol</td><td>BCCB0936</td></tr> </table>	Acidified Na2SO4	AS120419	BF3 Methanol	BCCB0936	<p>Cleanup 1 Cleanup Method 1: Cleanup Method 2: Solvent Type: Lot #:</p> <p>Additional Reagents/Std's</p>
12N H2SO4	12A120219																			
25% NaOH	NA112119																			
Acidified Na2SO4	AS120319																			
DCM	DX553																			
Diethyl ether	19080331																			
Na2S2O3	NA																			
NaCl	0000232882																			
Acidified Na2SO4	AS120419																			
BF3 Methanol	BCCB0936																			

Extraction

Concentration

Sample/Type	Extract Date	Analyst	Sample Vol ml	Ph	Trc Check	Surr Amt ml	Spike Amt ml	Hydroly sis Start	Hydroly sis Stop	Conc	Analyst	Conc	Methyl ation Date	ml	Final Vol ml
										Date		Volume ml			
L1957339-06 SAMP	12/04/19 00:31	Samy Dakkash	200	<2,>12	NA	.25		12/04/19 01:05	12/04/19 02:35	12/04/19 08:30	Samy Dakkash	5	12/04/19 09:28	2/5	5
L1957339-10 SAMP	12/04/19 00:31	Samy Dakkash	200	<2,>12	NA	.25		12/04/19 01:05	12/04/19 02:35	12/04/19 08:30	Samy Dakkash	5	12/04/19 09:28	2/5	5
L1957339-17 SAMP	12/04/19 00:31	Samy Dakkash	200	<2,>12	NA	.25		12/04/19 01:05	12/04/19 02:35	12/04/19 08:30	Samy Dakkash	5	12/04/19 09:28	2/5	5
L1957339-23 SAMP	12/04/19 00:31	Samy Dakkash	200	<2,>12	NA	.25		12/04/19 01:05	12/04/19 02:35	12/04/19 08:30	Samy Dakkash	5	12/04/19 09:28	2/5	5
WG1316266-1 BLANK	12/04/19 00:31	Samy Dakkash	200	<2,>12	NA	.25		12/04/19 01:05	12/04/19 02:35	12/04/19 08:30	Samy Dakkash	5	12/04/19 09:28	2/5	5

Workgroup: WG1316266

Sample/ Type	Extraction									Concentration					
	Extract Date	Analyst	Sample Vol ml	Ph	Trc Check	Surr Amt ml	Spike Amt ml	Hydroly sis Start	Hydroly sis Stop	Conc Date	Analyst	Conc Volume ml	Methyl ation Date	ml	Final Vol ml
WG1316266- 2 LCS	12/04/19 00:31	Samy Dakkash	200	<2,>12	NA	.25	.25	12/04/1 9 01:05	12/04/1 9 02:35	12/04/19 08:30	Samy Dakkash	5	12/04/1 9 09:28	2/5	5
WG1316266- 3 LCSD	12/04/19 00:31	Samy Dakkash	200	<2,>12	NA	.25	.25	12/04/1 9 01:05	12/04/1 9 02:35	12/04/19 08:30	Samy Dakkash	5	12/04/1 9 09:28	2/5	5

Workgroup: WG1316102

<p>Prep Method: EPA 8151A Solvent Type: DCM/Acetone Lot #: AD120319 Surrogate Type: Herbicide Lot #: PP9623 Spike Type: Herbicides Lot #: PP9530 Spike Verify by: GN Lims Spikelot: HERB8151</p> <p>Additional Reagents/Std</p> <table border="1"> <tr><td>Acidified Na2SO4</td><td>AS120319</td></tr> <tr><td>DCM</td><td>DX553</td></tr> <tr><td>H2SO4</td><td>2019081352</td></tr> </table>	Acidified Na2SO4	AS120319	DCM	DX553	H2SO4	2019081352	<p>Conc.Method: S-EVAP/N-EVAP Solvent Type: Diethyl ether Lot #: 19100007</p> <p>Additional Reagents/Std</p> <table border="1"> <tr><td>12N H2SO4</td><td>12A120219</td></tr> <tr><td>37% KOH</td><td>K111919</td></tr> <tr><td>Acidified Na2SO4</td><td>AS120319</td></tr> <tr><td>DCM</td><td>DX553</td></tr> <tr><td>Diazomethane</td><td>D120419</td></tr> <tr><td>Hexane</td><td>DX463</td></tr> <tr><td>Isooctane</td><td>STBH3075</td></tr> <tr><td>Methanol</td><td>59164</td></tr> <tr><td>Silicic Acid</td><td>MKCD7973</td></tr> </table>	12N H2SO4	12A120219	37% KOH	K111919	Acidified Na2SO4	AS120319	DCM	DX553	Diazomethane	D120419	Hexane	DX463	Isooctane	STBH3075	Methanol	59164	Silicic Acid	MKCD7973	<p>Cleanup 1</p> <p>Cleanup Method 1: Cleanup Method 2: Solvent Type: Lot #:</p> <p>Additional Reagents/Std</p>
Acidified Na2SO4	AS120319																									
DCM	DX553																									
H2SO4	2019081352																									
12N H2SO4	12A120219																									
37% KOH	K111919																									
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Hexane	DX463																									
Isooctane	STBH3075																									
Methanol	59164																									
Silicic Acid	MKCD7973																									

Extraction

Concentration

Sample/Type	Extraction								Concentration					
	Extract Date	Analyst	Sample Weight g	Balance Id	Ph	Surr Amt ml	Spike Amt ml	Extract Unit Id	Conc Date	Analyst	Ph	Conc Volume	Hydrolysis Stop	
L1956678-01 SOIL	12/03/19 15:30	George Nantwi	30.58	39	<2	.5		4	12/04/19 09:31	Sam Boateng	PH>12/<2	0.5	12/03/19 23:10	12/04/19 00:40
L1956692-01 SOIL	12/03/19 15:30	George Nantwi	30.87	39	<2	.5		3	12/04/19 09:31	Sam Boateng	PH>12/<2	0.5	12/03/19 23:10	12/04/19 00:40
L1956692-02 SOIL	12/03/19 15:30	George Nantwi	30.24	39	<2	.5		3	12/04/19 09:32	Sam Boateng	PH>12/<2	0.5	12/03/19 23:10	12/04/19 00:40
L1956692-03 SOIL	12/03/19 15:30	George Nantwi	30.44	39	<2	.5		4	12/04/19 09:32	Sam Boateng	PH>12/<2	0.5	12/03/19 23:10	12/04/19 00:40
L1956854-01 SOIL	12/03/19 17:34	George Nantwi	30.55	39	<2	.5		4	12/04/19 15:15	Jessica Westover	PH>12/<2	0.5	12/03/19 23:10	12/04/19 00:40

Workgroup: WG1316102

Sample/ Type	Extraction								Concentration					
	Extract Date	Analyst	Sample Weight g	Balanc e Id	Ph	Surr Amt ml	Spike Amt ml	Extract Unit Id	Conc Date	Analyst	Ph	Conc Volume	Hydro lysis Stop	
L1956854-03 SOIL	12/03/19 17:34	George Nantwi	30.51	39	<2	.5		3	12/04/19 15:15	Jessica Westover	PH>12/ <2	0.5	12/03/19 23:10	12/04/19 00:40
L1956854-05 SOIL	12/03/19 17:34	George Nantwi	30.78	39	<2	.5		3	12/04/19 15:15	Jessica Westover	PH>12/ <2	0.5	12/03/19 23:10	12/04/19 00:40
L1956854-07 SOIL	12/03/19 17:34	George Nantwi	30.28	39	<2	.5		4	12/04/19 15:15	Jessica Westover	PH>12/ <2	0.5	12/03/19 23:10	12/04/19 00:40
L1956854-09 SOIL	12/03/19 17:34	George Nantwi	30.40	39	<2	.5		4	12/04/19 15:15	Jessica Westover	PH>12/ <2	0.5	12/03/19 23:10	12/04/19 00:40
L1956854-11 SOIL	12/03/19 17:34	George Nantwi	30.32	39	<2	.5		3	12/04/19 15:15	Jessica Westover	PH>12/ <2	0.5	12/03/19 23:10	12/04/19 00:40
L1957244-01 SOIL	12/03/19 15:30	George Nantwi	30.28	39	<2	.5		4	12/04/19 15:15	Jessica Westover	PH>12/ <2	0.5	12/03/19 23:10	12/04/19 00:40
L1957339-14 SAMP	12/03/19 15:30	George Nantwi	30.87	39	<2	.5		3	12/04/19 15:15	Jessica Westover	PH>12/ <2	0.5	12/03/19 23:10	12/04/19 00:40
L1957339-15 SAMP	12/03/19 15:30	George Nantwi	15.15	39	<2	.5		3	12/04/19 15:15	Jessica Westover	PH>12/ <2	0.5	12/03/19 23:10	12/04/19 00:40
			VERY DARK SAMPLE											
L1957339-16 SAMP	12/03/19 15:30	George Nantwi	15.97	39	<2	.5		4	12/04/19 15:15	Jessica Westover	PH>12/ <2	0.5	12/03/19 23:10	12/04/19 00:40
			VERY DARK SAMPLE											
L1957339-20 SAMP	12/03/19 15:30	George Nantwi	16.12	39	<2	.5		4	12/04/19 15:15	Jessica Westover	PH>12/ <2	0.5	12/03/19 23:10	12/04/19 00:40
			VERY DARK SAMPLE											

Workgroup: WG1316102

Sample/ Type	Extraction								Concentration					
	Extract Date	Analyst	Sample Weight g	Balanc e Id	Ph	Surr Amt ml	Spike Amt ml	Extract Unit Id	Conc Date	Analyst	Ph	Conc Volume	Hydroly sis Stop	
WG1316102- 1 BLANK	12/03/19 15:30	George Nantwi	30.52	39	<2	.5		3	12/04/19 09:30	Sam Boateng	PH>12/ <2	0.5	12/03/19 23:10	12/04/19 00:40
	WG1316110													
WG1316102- 2 LCS	12/03/19 15:30	George Nantwi	30.69	39	<2	.5	.5	3	12/04/19 09:30	Sam Boateng	PH>12/ <2	0.5	12/03/19 23:10	12/04/19 00:40
WG1316102- 3 LCSD	12/03/19 15:30	George Nantwi	30.22	39	<2	.5	.5	4	12/04/19 09:30	Sam Boateng	PH>12/ <2	0.5	12/03/19 23:10	12/04/19 00:40

Workgroup: WG1315317

<p>Prep Method: EPA 8151A Solvent Type: DCM/Acetone Lot #: AD112919 Surrogate Type: Herbicide Lot #: PP9529 Spike Type: Herbicides Lot #: PP9530 Spike Verify by: SD/AR Lims Spikelot: HERB8151</p> <p>Additional Reagents/Std</p> <table border="1"> <tr><td>Acidified Na2SO4</td><td>AS113019</td></tr> <tr><td>DCM</td><td>DX553</td></tr> <tr><td>H2SO4</td><td>2019081325</td></tr> </table>	Acidified Na2SO4	AS113019	DCM	DX553	H2SO4	2019081325	<p>Conc.Method: S-EVAP/N-EVAP Solvent Type: Diethyl ether Lot #: 19100007</p> <p>Additional Reagents/Std</p> <table border="1"> <tr><td>12N H2SO4</td><td>12A120219</td></tr> <tr><td>37% KOH</td><td>K111919</td></tr> <tr><td>Acidified Na2SO4</td><td>AS120219</td></tr> <tr><td>DCM</td><td>DX553</td></tr> <tr><td>Diazomethane</td><td>D113019</td></tr> <tr><td>Hexane</td><td>DX463</td></tr> <tr><td>Isooctane</td><td>STBH3075</td></tr> <tr><td>Methanol</td><td>59164</td></tr> <tr><td>Silicic Acid</td><td>MKCD7973</td></tr> </table>	12N H2SO4	12A120219	37% KOH	K111919	Acidified Na2SO4	AS120219	DCM	DX553	Diazomethane	D113019	Hexane	DX463	Isooctane	STBH3075	Methanol	59164	Silicic Acid	MKCD7973	<p>Cleanup 1</p> <p>Cleanup Method 1: Cleanup Method 2: Solvent Type: Lot #:</p> <p>Additional Reagents/Std</p>
Acidified Na2SO4	AS113019																									
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Methanol	59164																									
Silicic Acid	MKCD7973																									

Extraction

Concentration

Sample/Type	Extraction								Concentration					
	Extract Date	Analyst	Sample Weight g	Balance Id	Ph	Surr Amt ml	Spike Amt ml	Extract Unit Id	Conc Date	Analyst	Ph	Conc Volume	Hydrolysis Stop	
L1957339-09 SAMP	12/01/19 13:45	Armia Rashed	30.17	39	<2	.5		4	12/04/19 15:15	Jessica Westover	PH>12/<2	0.5	12/02/19 10:10	12/02/19 11:40
L1957339-18 SAMP	12/01/19 13:45	Armia Rashed	30.92	39	<2	.5		3	12/04/19 15:15	Jessica Westover	PH>12/<2	0.5	12/02/19 10:10	12/02/19 11:40
L1957339-19 SAMP	12/01/19 13:45	Armia Rashed	30.40	39	<2	.5		3	12/02/19 20:12	Frederick Opoku	PH>12/<2	0.5	12/02/19 10:10	12/02/19 11:40
L1957339-21 SAMP	12/01/19 13:45	Armia Rashed	30.48	39	<2	.5		4	12/04/19 15:15	Jessica Westover	PH>12/<2	0.5	12/02/19 10:10	12/02/19 11:40
L1957339-22 SAMP	12/01/19 13:45	Armia Rashed	30.82	39	<2	.5		4	12/04/19 15:15	Jessica Westover	PH>12/<2	0.5	12/02/19 10:10	12/02/19 11:40

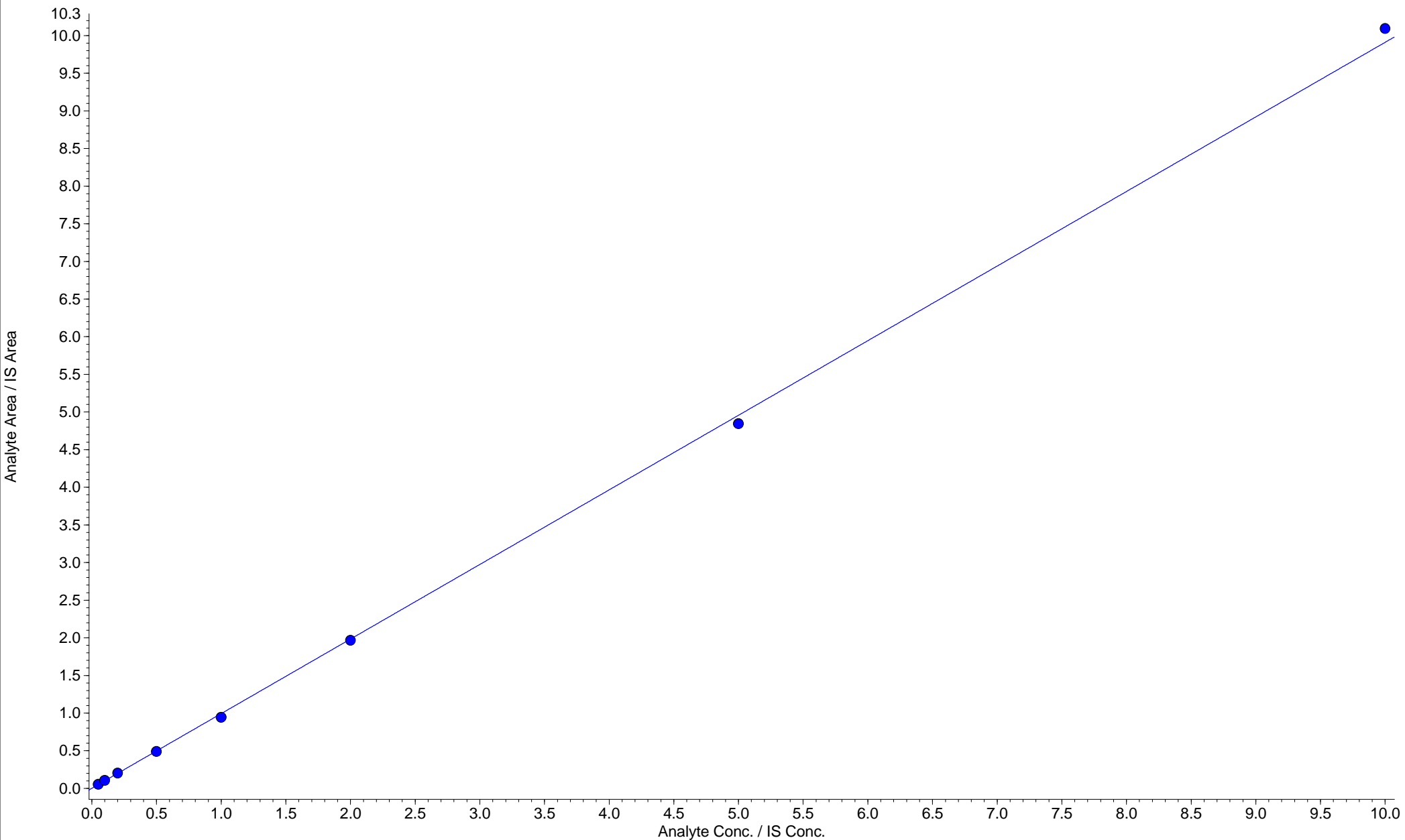
Workgroup: WG1315317

Sample/ Type	Extraction								Concentration					
	Extract Date	Analyst	Sample Weight g	Balanc e Id	Ph	Surr Amt ml	Spike Amt ml	Extract Unit Id	Conc Date	Analyst	Ph	Conc Volume	Hydroly sis Stop	
L1957339-24 SAMP	12/01/19 13:45	Armia Rashed	30.35	39	<2	.5		3	12/04/19 15:15	Jessica Westover	PH>12/ <2	0.5	12/02/1 9 10:10	12/02/1 9 11:40
L1957339-25 SAMP	12/01/19 13:45	Armia Rashed	30.73	39	<2	.5		3	12/04/19 15:15	Jessica Westover	PH>12/ <2	0.5	12/02/1 9 10:10	12/02/1 9 11:40
WG1315317- 1 BLANK	12/01/19 06:37	Samy Dakkash	30.10	39	<2	.5		3	12/02/19 20:12	Frederick Opoku	PH>12/ <2	0.5	12/02/1 9 10:10	12/02/1 9 11:40
WG1315317- 2 LCS	12/01/19 06:37	Samy Dakkash	30.35	39	<2	.5	.5	3	12/02/19 20:12	Frederick Opoku	PH>12/ <2	0.5	12/02/1 9 10:10	12/02/1 9 11:40
WG1315317- 3 LCSD	12/01/19 06:37	Samy Dakkash	30.61	39	<2	.5	.5	4	12/02/19 20:12	Frederick Opoku	PH>12/ <2	0.5	12/02/1 9 10:10	12/02/1 9 11:40
WG1315317- 4 MS	12/01/19 13:45	Armia Rashed	30.73	39	<2	.5	.5	3	12/02/19 20:12	Frederick Opoku	PH>12/ <2	0.5	12/02/1 9 10:10	12/02/1 9 11:40
WG1315317- 5 MSD	12/01/19 13:45	Armia Rashed	30.83	39	<2	.5	.5	4	12/02/19 20:12	Frederick Opoku	PH>12/ <2	0.5	12/02/1 9 10:10	12/02/1 9 11:40

Perchlorate Analysis Method 6860

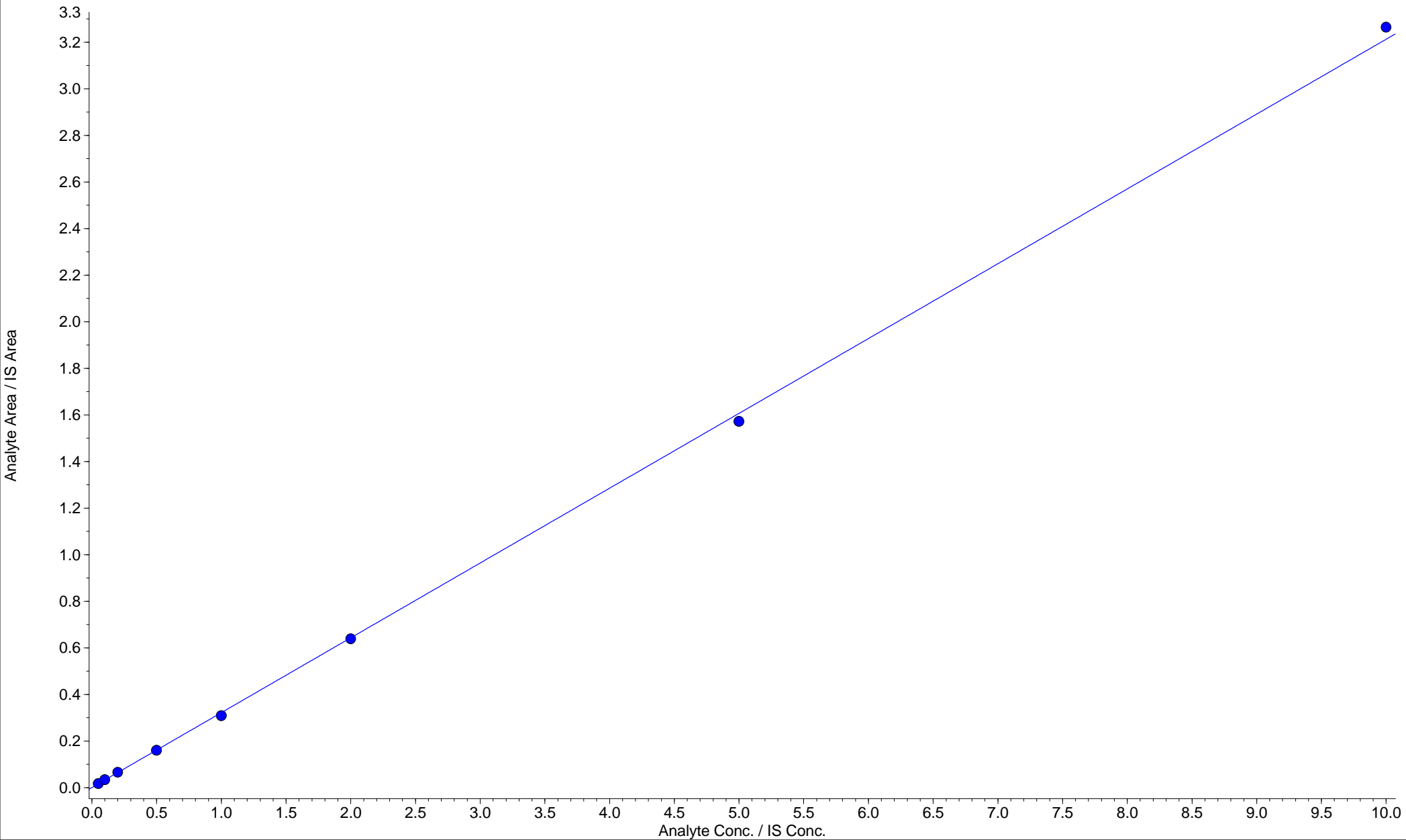
Calibration & Method Information

■ 191213a.rdb (Perchlorate): "Linear" Regression ("1 / x" weighting): $y = 0.991x + 0.00207$ ($r = 0.9997$)



Collected by: N/A
Electronic Signature: no
Operator: Administrator

■ 191213a.rdb (Perchlorate-37): "Linear" Regression ("1 / x" weighting): $y = 0.321 x + 0.000508$ ($r = 0.9998$)



Collected by: N/A
Electronic Signature: no
Operator: Administrator

Relative Retention Time & Transition Ratio

Sample Name	Acquisition Date	Analyte		Analyte Retention Time (A_{RT}) [min]	IS Peak Area [counts]	IS Retention Time (IS_{RT}) [min]	Calculated Concentration [ug/L]	Transition Ratio ($99/101$) (2.31-3.85)	Relative Retention Time (A_{RT}/IS_{RT}) (0.98-1.02)	IS Area Window (Low; 50% AvgICAL)	IS Area Window (High; 150% AvgICAL)
		Peak Area ($99/83$)	Peak Area ($101/85$)								
				Avg (ICAL):	231000						
ICAL: 191205ical											
Blank01	12/5/2019 11:38	0	0	0	0	0	No Peak			115500	346500
Blank01IS	12/5/2019 12:00	0	0	0	235000	7.52	No Peak			115500	346500
cal 0.05ppb (RL)	12/5/2019 12:12	12600	4030	7.7	239000	7.69	0.0513	3.13	1.00	115500	346500
cal 0.1ppb	12/5/2019 12:24	25300	8070	7.65	240000	7.63	0.1040	3.14	1.00	115500	346500
cal 0.2ppb	12/5/2019 12:36	48100	15600	7.56	237000	7.55	0.2020	3.08	1.00	115500	346500
cal 0.5ppb	12/5/2019 12:48	116000	37800	7.67	237000	7.62	0.4910	3.07	1.01	115500	346500
cal 1.0ppb	12/5/2019 13:00	227000	74300	7.55	241000	7.53	0.9500	3.06	1.00	115500	346500
cal 2.0ppb	12/5/2019 13:12	463000	150000	7.52	236000	7.52	1.9800	3.09	1.00	115500	346500
cal 5.0ppb	12/5/2019 13:24	1070000	346000	7.6	220000	7.58	4.8900	3.09	1.00	115500	346500
cal 10.0ppb	12/5/2019 13:36	2000000	645000	7.63	198000	7.62	10.2000	3.10	1.00	115500	346500
blank02 is	12/5/2019 13:48	0	0	0	249000	7.81	No Peak			115500	346500
qcs 1.0ppb	12/5/2019 14:00	259000	82900	7.51	241000	7.51	1.0800	3.12	1.00	115500	346500
Blank02	12/11/2019 16:33	0	0	0	0	0	No Peak			115500	346500
Blank03 is	12/11/2019 17:10	0	0	0	216000	7.61	No Peak			115500	346500
ICV 0.1 ppb	12/11/2019 17:22	26200	8450	7.55	230000	7.51	0.1130	3.10	1.01	115000	345000
RL Check 0.05 ppb	12/11/2019 17:34	13600	4420	7.58	226000	7.55	0.0588	3.08	1.00	115000	345000
wg1321406-1	12/11/2019 17:46	0	0	0	325000	7.59	No Peak			115000	345000
wg1321406-2	12/11/2019 17:58	272000	88200	7.61	262000	7.6	1.0500	3.08	1.00	115000	345000
ms 1ppb	12/11/2019 18:10	267000	86700	7.58	255000	7.56	1.0500	3.08	1.00	115000	345000
msd 1ppb	12/11/2019 18:22	270000	88800	7.53	261000	7.54	1.0400	3.04	1.00	115000	345000
L1957339-03	12/11/2019 18:34	3620	1360	7.62	261000	7.58	0.0119	2.66	1.01	115000	345000
L1957339-04	12/11/2019 18:46	2260	890	7.51	266000	7.51	0.0065	2.54	1.00	115000	345000
L1957339-05	12/11/2019 18:58	3140	988	7.59	265000	7.58	0.0099	3.18	1.00	115000	345000
L1957339-07	12/11/2019 19:10	0	0	0	255000	7.51	No Peak			115000	345000
L1957339-08	12/11/2019 19:22	0	0	0	263000	7.53	No Peak			115000	345000

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L1957339-09	12/11/2019 19:34	0	0	0	263000	7.56	No Peak			115000	345000
L1957339-11	12/11/2019 19:46	0	0	0	272000	7.51	No Peak			115000	345000
L1957339-12	12/11/2019 19:58	0	0	0	279000	7.83	No Peak			115000	345000
L1957339-13	12/11/2019 20:10	0	0	0	273000	7.49	No Peak			115000	345000
cccs 0.20ppb	12/11/2019 20:22	57600	18600	7.58	253000	7.56	0.2280	3.10	1.00	115000	345000
blank04 is	12/11/2019 20:33	0	0	0	254000	7.53	No Peak			115000	345000

Sample Name	Acquisition Date	Analyte		Analyte	IS	Calculated	Transition	Relative		IS Area	IS Area
		Peak Area (99/83)	Peak Area (101/85)	Retention Time (A _{RT}) [min]	IS Peak Area (IS _{RT}) [counts]			Retention Time (IS _{RT}) [min]	Concentration [ug/L]		
				Avg (ICAL):	231000						
ICAL: 191205ical											
Blank01	12/5/2019 11:38	0	0	0	0	0	No Peak			115500	346500
Blank01IS	12/5/2019 12:00	0	0	0	235000	7.52	No Peak			115500	346500
cal 0.05ppb (RL)	12/5/2019 12:12	12600	4030	7.7	239000	7.69	0.0513	3.13	1.00	115500	346500
cal 0.1ppb	12/5/2019 12:24	25300	8070	7.65	240000	7.63	0.1040	3.14	1.00	115500	346500
cal 0.2ppb	12/5/2019 12:36	48100	15600	7.56	237000	7.55	0.2020	3.08	1.00	115500	346500
cal 0.5ppb	12/5/2019 12:48	116000	37800	7.67	237000	7.62	0.4910	3.07	1.01	115500	346500
cal 1.0ppb	12/5/2019 13:00	227000	74300	7.55	241000	7.53	0.9500	3.06	1.00	115500	346500
cal 2.0ppb	12/5/2019 13:12	463000	150000	7.52	236000	7.52	1.9800	3.09	1.00	115500	346500
cal 5.0ppb	12/5/2019 13:24	1070000	346000	7.6	220000	7.58	4.8900	3.09	1.00	115500	346500
cal 10.0ppb	12/5/2019 13:36	2000000	645000	7.63	198000	7.62	10.2000	3.10	1.00	115500	346500
blank02 is	12/5/2019 13:48	0	0	0	249000	7.81	No Peak			115500	346500
qcs 1.0ppb	12/5/2019 14:00	259000	82900	7.51	241000	7.51	1.0800	3.12	1.00	115500	346500
Blank02	12/12/2019 17:07	0	0	0	0	0	No Peak			115500	346500
Blank03 is	12/12/2019 17:56	0	0	0	256000	7.54	No Peak			115500	346500
ICV 0.1 ppb	12/12/2019 18:08	29200	9580	7.57	265000	7.54	0.1090	3.05	1.00	132500	397500
RL Check 0.05 ppb	12/12/2019 18:20	16100	5470	7.66	277000	7.65	0.0568	2.94	1.00	132500	397500
wg1321415-1	12/12/2019 18:32	0	0	0	283000	7.6	No Peak			132500	397500
wg1321415-2	12/12/2019 18:44	281000	91400	7.6	279000	7.57	1.0200	3.07	1.00	132500	397500
ms 1ppb	12/12/2019 18:56	273000	90500	7.59	268000	7.55	1.0300	3.02	1.01	132500	397500
msd 1ppb	12/12/2019 19:08	278000	89500	7.61	267000	7.58	1.0500	3.11	1.00	132500	397500
L1957339-14	12/12/2019 19:20	0	0	0	276000	7.62	No Peak			132500	397500
L1957339-15	12/12/2019 19:32	0	0	0	266000	7.58	No Peak			132500	397500
L1957339-16	12/12/2019 19:44	39100	13400	7.59	237000	7.58	0.1640	2.92	1.00	132500	397500
L1957339-18	12/12/2019 19:56	1480	490	7.56	276000	7.58	0.0033	3.02	1.00	132500	397500
L1957339-19	12/12/2019 20:08	2050	686	7.6	282000	7.56	0.0053	2.99	1.01	132500	397500

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L1957339-20	12/12/2019 20:20	6650	2370	7.58	182000	7.57	0.0347	2.81	1.00	132500	397500
L1957339-21	12/12/2019 20:32	0	0	0	81200	7.54	No Peak			132500	397500
L1957339-22	12/12/2019 20:44	3580	1170	7.56	216000	7.55	0.0146	3.06	1.00	132500	397500
L1957339-24	12/12/2019 20:56	3300	1000	7.58	251000	7.56	0.0112	3.30	1.00	132500	397500
L1957339-25	12/12/2019 21:08	3340	1070	7.65	246000	7.64	0.0116	3.12	1.00	132500	397500
cccs 0.20ppb	12/12/2019 21:20	59500	19200	7.57	268000	7.54	0.2220	3.10	1.00	132500	397500
blank04 is	12/12/2019 21:32	0	0	0	273000	7.5	No Peak			132500	397500

Sample Name	Acquisition Date	Analyte		Analyte Retention Time (A_{RT}) [min]	IS Peak Area [counts]	IS Retention Time (IS_{RT}) [min]	Calculated Concentration [ug/L]	Transition Ratio ($99/101$) (2.31-3.85)	Relative Retention Time (A_{RT}/IS_{RT}) (0.98-1.02)	IS Area Window (Low; 50% AvgICAL)	IS Area Window (High; 150% AvgICAL)
		Peak Area ($99/83$)	Peak Area ($101/85$)								
				Avg (ICAL):	231000						
ICAL: 191205ical											
Blank01	12/5/2019 11:38	0	0	0	0	0	No Peak			115500	346500
Blank01IS	12/5/2019 12:00	0	0	0	235000	7.52	No Peak			115500	346500
cal 0.05ppb (RL)	12/5/2019 12:12	12600	4030	7.7	239000	7.69	0.0513	3.13	1.00	115500	346500
cal 0.1ppb	12/5/2019 12:24	25300	8070	7.65	240000	7.63	0.1040	3.14	1.00	115500	346500
cal 0.2ppb	12/5/2019 12:36	48100	15600	7.56	237000	7.55	0.2020	3.08	1.00	115500	346500
cal 0.5ppb	12/5/2019 12:48	116000	37800	7.67	237000	7.62	0.4910	3.07	1.01	115500	346500
cal 1.0ppb	12/5/2019 13:00	227000	74300	7.55	241000	7.53	0.9500	3.06	1.00	115500	346500
cal 2.0ppb	12/5/2019 13:12	463000	150000	7.52	236000	7.52	1.9800	3.09	1.00	115500	346500
cal 5.0ppb	12/5/2019 13:24	1070000	346000	7.6	220000	7.58	4.8900	3.09	1.00	115500	346500
cal 10.0ppb	12/5/2019 13:36	2000000	645000	7.63	198000	7.62	10.2000	3.10	1.00	115500	346500
blank02 is	12/5/2019 13:48	0	0	0	249000	7.81	No Peak			115500	346500
qcs 1.0ppb	12/5/2019 14:00	259000	82900	7.51	241000	7.51	1.0800	3.12	1.00	115500	346500
Blank02	12/13/2019 10:18	0	0	0	0	0	No Peak			115500	346500
Blank03 is	12/13/2019 11:01	0	0	0	259000	7.6	No Peak			115500	346500
ICV 0.1 ppb	12/13/2019 11:12	28500	9310	7.6	251000	7.59	0.1130	3.06	1.00	125500	376500
RL Check 0.05 ppb	12/13/2019 11:24	14500	5230	7.56	258000	7.55	0.0545	2.77	1.00	125500	376500
wg1321406-3	12/13/2019 11:36	13200	4420	7.56	220000	7.53	0.0583	2.99	1.00	125500	376500
wg1321406-4	12/13/2019 11:48	12100	3800	7.52	200000	7.49	0.0589	3.18	1.00	125500	376500
wg1321415-3	12/13/2019 12:00	14400	4670	7.69	216000	7.66	0.0651	3.08	1.00	125500	376500
wg1321415-4	12/13/2019 12:12	13900	4790	7.63	230000	7.61	0.0589	2.90	1.00	125500	376500
cccs 0.20ppb	12/13/2019 12:24	61000	20100	7.67	265000	7.65	0.2300	3.03	1.00	125500	376500
blank04 is	12/13/2019 12:36	0	0	0	290000	7.58	No Peak			125500	376500
L1957339-21	12/13/2019 15:03	2060	647	7.62	153000	7.6	0.0114	3.18	1.00	125500	376500
cccs 0.50ppb	12/13/2019 15:30	128000	41300	7.56	236000	7.55	0.5440	3.10	1.00	125500	376500
blank05 is	12/13/2019 15:42	0	0	0	250000	7.49	No Peak			125500	376500

Sequence Summary

Project: D:\Analyst Data\Projects\Perchlorate Training\2005_02_14 Batch:191211a Tab:Sample Set:SET1 AcqMethod:PA_180110_fast_short.dam

Sample

	Sample Name	Data File	Comments	Workgroup	Analyst ID
1	Blank01	191205ical	ical: 191205ical		ss
2	Blank01IS	191205ical	IS lot#:190924isw s		ss
3	cal 0.05ppb (RL)	191205ical	1911060.05ppb		ss
4	cal 0.1ppb	191205ical	1911060.1ppb		ss
5	cal 0.2ppb	191205ical	1911060.2ppb		ss
6	cal 0.5ppb	191205ical	1911060.5ppb		ss
7	cal 1.0ppb	191205ical	1912021.00ppb		ss
8	cal 2.0ppb	191205ical	1911062.0ppb		ss
9	cal 5.0ppb	191205ical	1911065.0ppb		ss
10	cal 10.0ppb	191205ical	19110610.0ppb		ss
11	blank02 is	191205ical	IS lot#:190924isw s		ss
12	qcs 1.0ppb	191205ical	1911071.0qcs		ss
13	Blank02	191211a			amm
14	Blank03 is	191211a	IS lot#:191211isw s		amm
15	ICV 0.1 ppb	191211a	1912090.10PPB		amm
16	RL Check 0.05 ppb	191211a	1912090.05PPB		amm
17	w g1321406-1	191211a	blank, soil lot# 0000182952	w g1319583	amm
18	w g1321406-2	191211a	lcs, 100 ul of 191211isw s	w g1319583	amm
19	ms 1ppb	191211a	ms, L1957339-11, 100ul of 190213QCSSTOCK#2	w g1319583	amm
20	msd 1ppb	191211a	msd, L1957339-11, 100ul of 190213QCSSTOCK#2	w g1319583	amm
21	L1957339-03	191211a		w g1319583	amm
22	L1957339-04	191211a		w g1319583	amm
23	L1957339-05	191211a		w g1319583	amm
24	L1957339-07	191211a		w g1319583	amm
25	L1957339-08	191211a		w g1319583	amm
26	L1957339-09	191211a		w g1319583	amm
27	L1957339-11	191211a		w g1319583	amm
28	L1957339-12	191211a		w g1319583	amm
29	L1957339-13	191211a		w g1319583	amm
30	cccs 0.20ppb	191211a	1912090.20ppb		amm
31	blank04 is	191211a			amm

Collected by: n/a
 Electronic Signature: no
 Operator: Administrator

Project: D:\Analyst Data\Projects\Perchlorate Training\2005_02_14 Batch:191212a Tab:Sample Set:SET1 AcqMethod:PA_180110_fast_short.dam

Sample

	Sample Name	Data File	Comments	Workgroup	Analyst ID
1	Blank01	191205ical	ical: 191205ical		ss
2	Blank01IS	191205ical	IS lot#:190924isw s		ss
3	cal 0.05ppb (RL)	191205ical	1911060.05ppb		ss
4	cal 0.1ppb	191205ical	1911060.1ppb		ss
5	cal 0.2ppb	191205ical	1911060.2ppb		ss
6	cal 0.5ppb	191205ical	1911060.5ppb		ss
7	cal 1.0ppb	191205ical	1910291.00ppb		ss
8	cal 2.0ppb	191205ical	1911062.0ppb		ss
9	cal 5.0ppb	191205ical	1911065.0ppb		ss
10	cal 10.0ppb	191205ical	19110610.0ppb		ss
11	blank02 is	191205ical	IS lot#:190924isw s		ss
12	qcs 1.0ppb	191205ical	1911071.0qcs		ss
13	Blank02	191212a			amm
14	Blank03 is	191212a	IS lot#:191211isw s		amm
15	ICV 0.1 ppb	191212a	1912090.10PPB		amm
16	RL Check 0.05 ppb	191212a	1912090.05PPB		amm
17	w g1321415-1	191212a	blank, soil lot# 0000182952	w g1321424	amm
18	w g1321415-2	191212a	lcs, 100 ul of 191211isw s	w g1321424	amm
19	ms 1ppb	191212a	ms, L1957339-19, 100ul of 190213QCSSTOCK#2	w g1321424	amm
20	msd 1ppb	191212a	msd, L1957339-19, 100ul of 190213QCSSTOCK#2	w g1321424	amm
21	L1957339-14	191212a		w g1321424	amm
22	L1957339-15	191212a		w g1321424	amm
23	L1957339-16	191212a		w g1321424	amm
24	L1957339-18	191212a		w g1321424	amm
25	L1957339-19	191212a		w g1321424	amm
26	L1957339-20	191212a		w g1321424	amm
27	L1957339-21	191212a	rr - low IS response	w g1321424	amm
28	L1957339-22	191212a		w g1321424	amm
29	L1957339-24	191212a		w g1321424	amm
30	L1957339-25	191212a		w g1321424	amm
31	cccs 0.20ppb	191212a	1912090.20ppb		amm
32	blank04 is	191212a			amm

Collected by: n/a
 Electronic Signature: no
 Operator: Administrator

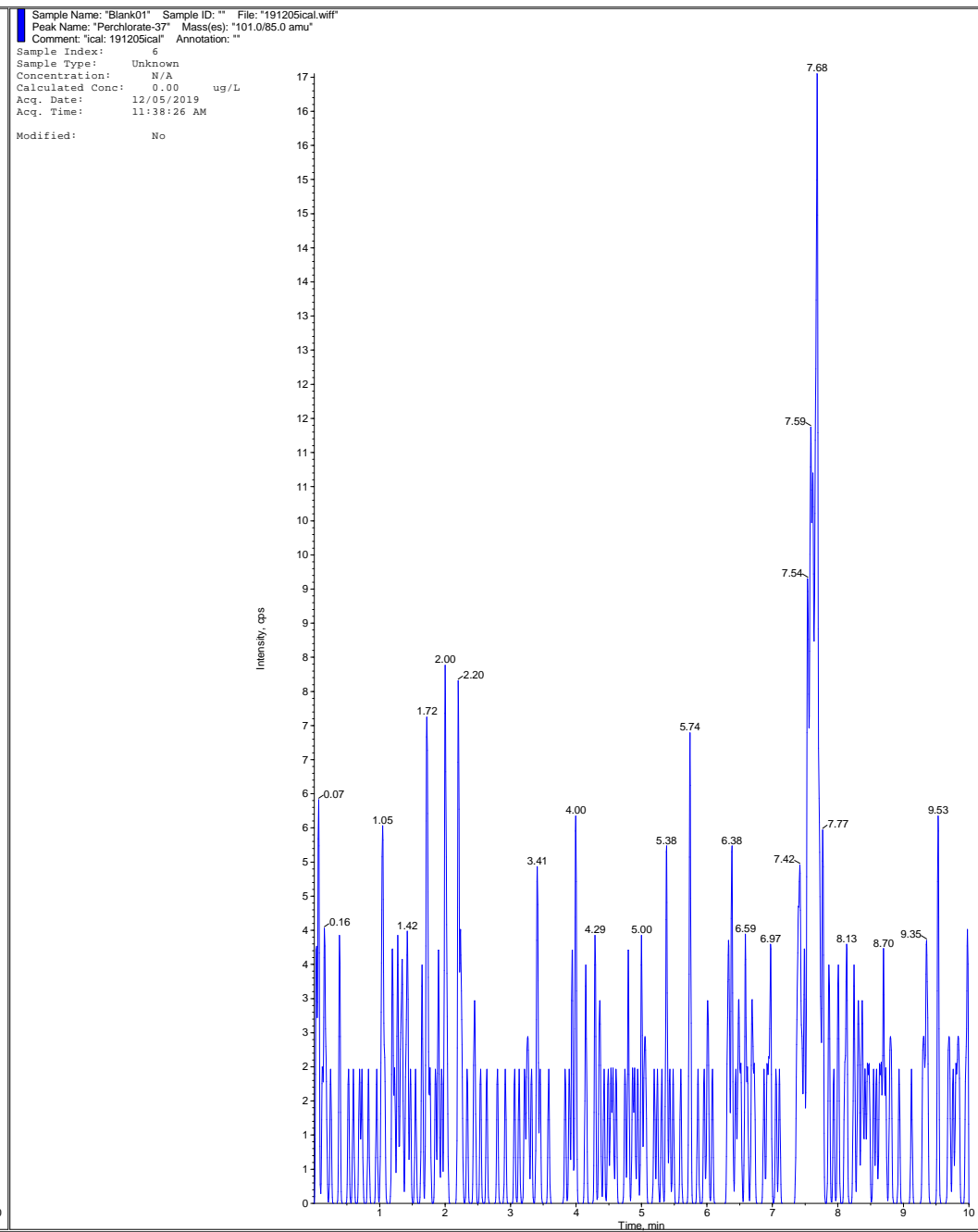
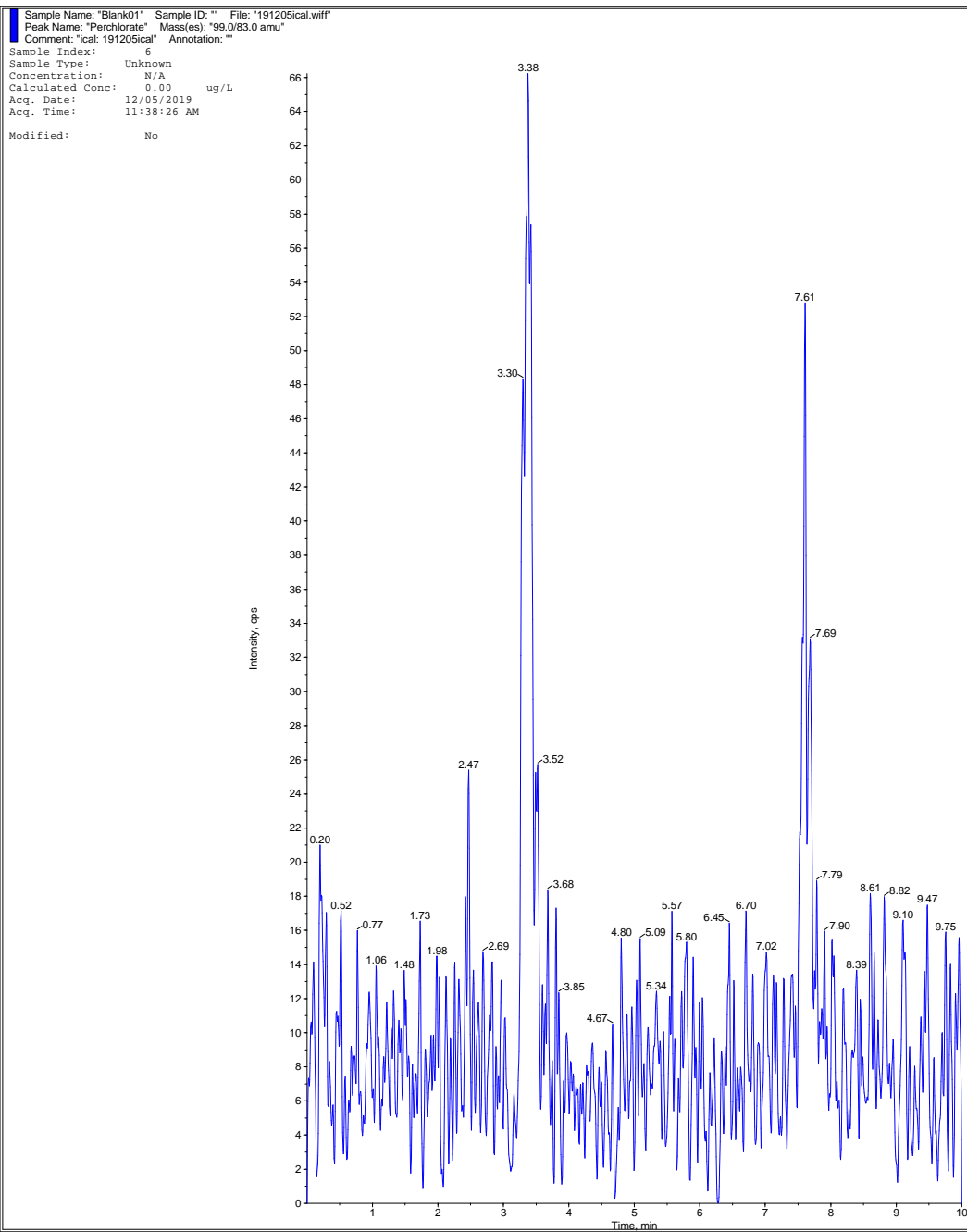
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Sample

	Sample Name	Data File	Comments	Workgroup	Analyst ID
1	Blank01	191205ical	ical: 191205ical		ss
2	Blank01IS	191205ical	IS lot#:190924isw s		ss
3	cal 0.05ppb (RL)	191205ical	1911060.05ppb		ss
4	cal 0.1ppb	191205ical	1911060.1ppb		ss
5	cal 0.2ppb	191205ical	1911060.2ppb		ss
6	cal 0.5ppb	191205ical	1911060.5ppb		ss
7	cal 1.0ppb	191205ical	1912021.00ppb		ss
8	cal 2.0ppb	191205ical	1911062.0ppb		ss
9	cal 5.0ppb	191205ical	1911065.0ppb		ss
10	cal 10.0ppb	191205ical	19110610.0ppb		ss
11	blank02 is	191205ical	IS lot#:190924isw s		ss
12	qcs 1.0ppb	191205ical	1911071.0qcs		ss
13	Blank02	191213a			amm
14	Blank03 is	191213a	IS lot#:191211isw s		amm
15	ICV 0.1 ppb	191213a	1912090.10PPB		amm
16	RL Check 0.05 ppb	191213a	1912090.05PPB		amm
17	w g1321406-3	191213a	ms, L1957339-11, 100ul of 1912095.00ppb	w g1321408	amm
18	w g1321406-4	191213a	msd, L1957339-11, 100ul of 1912095.00ppb	w g1321408	amm
19	w g1321415-3	191213a	ms, L1957339-19, 100ul of 1912095.00ppb	w g1321424	amm
20	w g1321415-4	191213a	msd, L1957339-19, 100ul of 1912095.00ppb	w g1321424	amm
21	cccs 0.20ppb	191213a	1912090.20ppb		amm
22	L1957339-21	191213a	rerun due to low is	w g1321424	amm
23	cccs 0.50ppb	191213a	1912090.50ppb		amm
24	blank05 is	191213a			amm

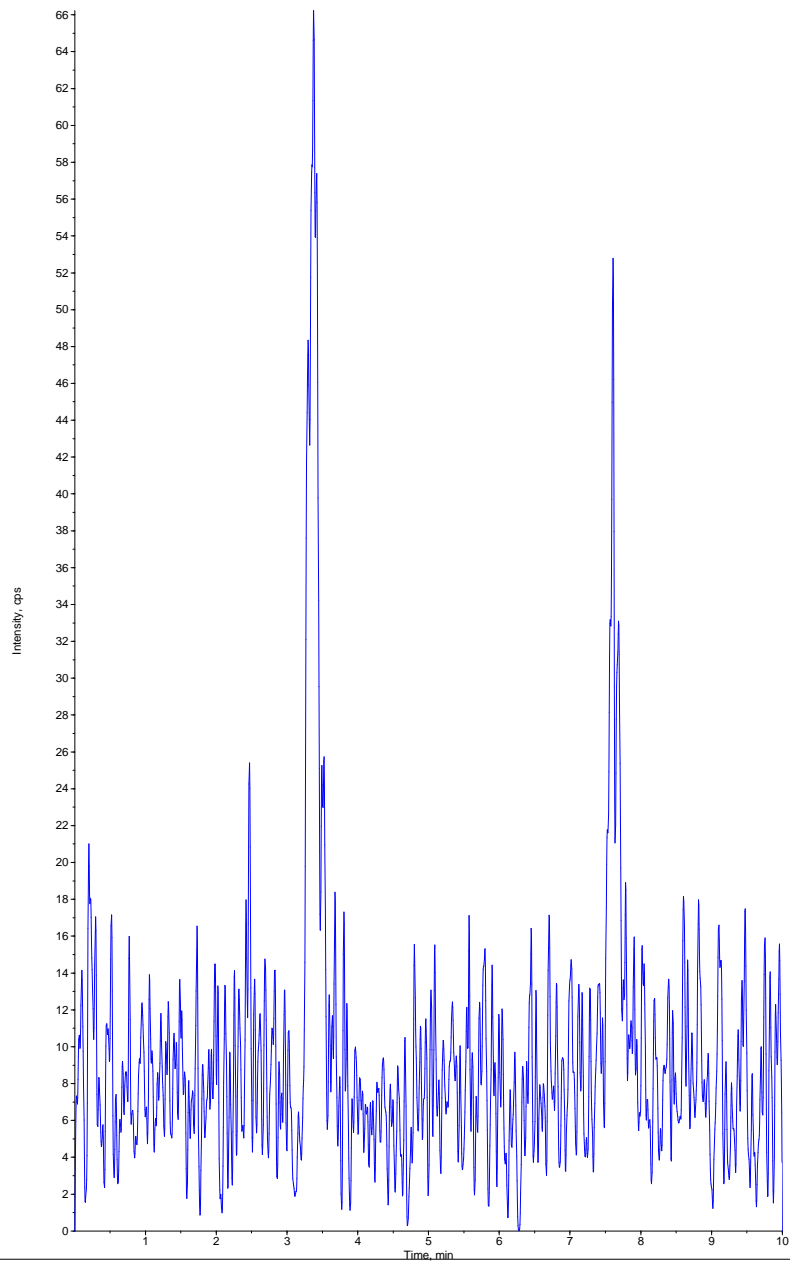
Collected by: n/a
 Electronic Signature: no
 Operator: Administrator

Sample & QC Chromatograms

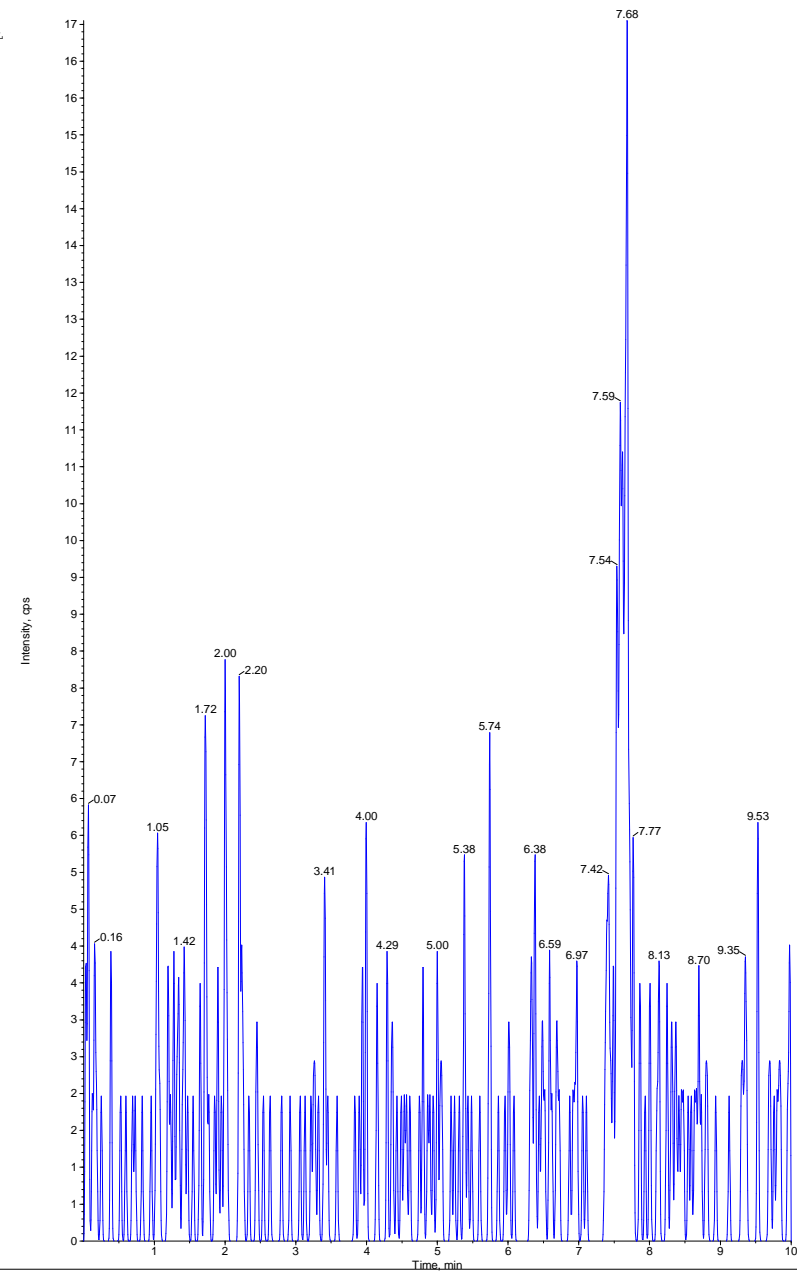


Collected by: N/A
Electronic Signature: no
Operator: Administrator

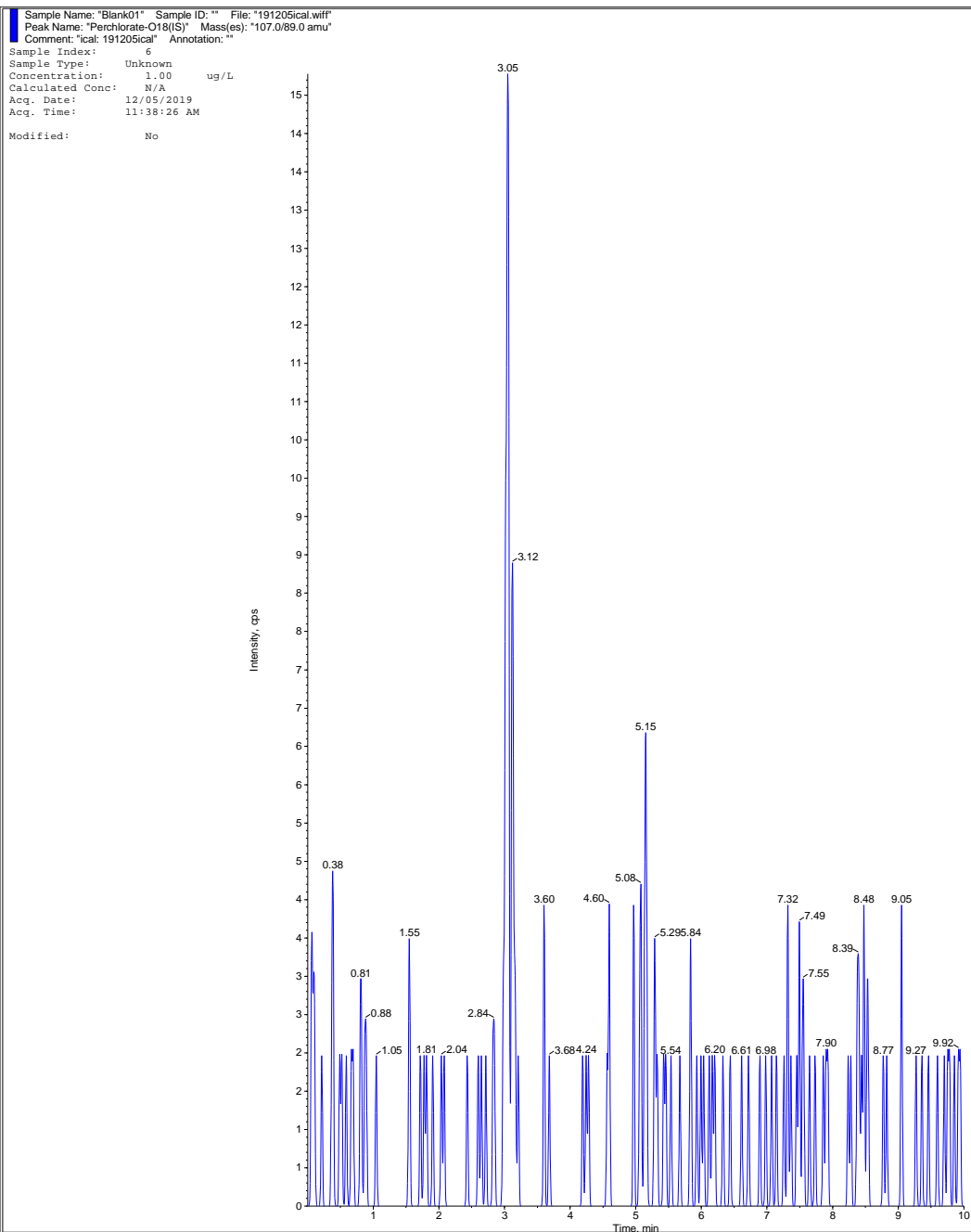
Sample Name: "Blank01" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "ical: 191205cal" Annotation: ""
Sample Index: 6
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/05/2019
Acq. Time: 11:38:26 AM
Modified: No



Sample Name: "Blank01" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "ical: 191205cal" Annotation: ""
Sample Index: 6
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/05/2019
Acq. Time: 11:38:26 AM
Modified: No

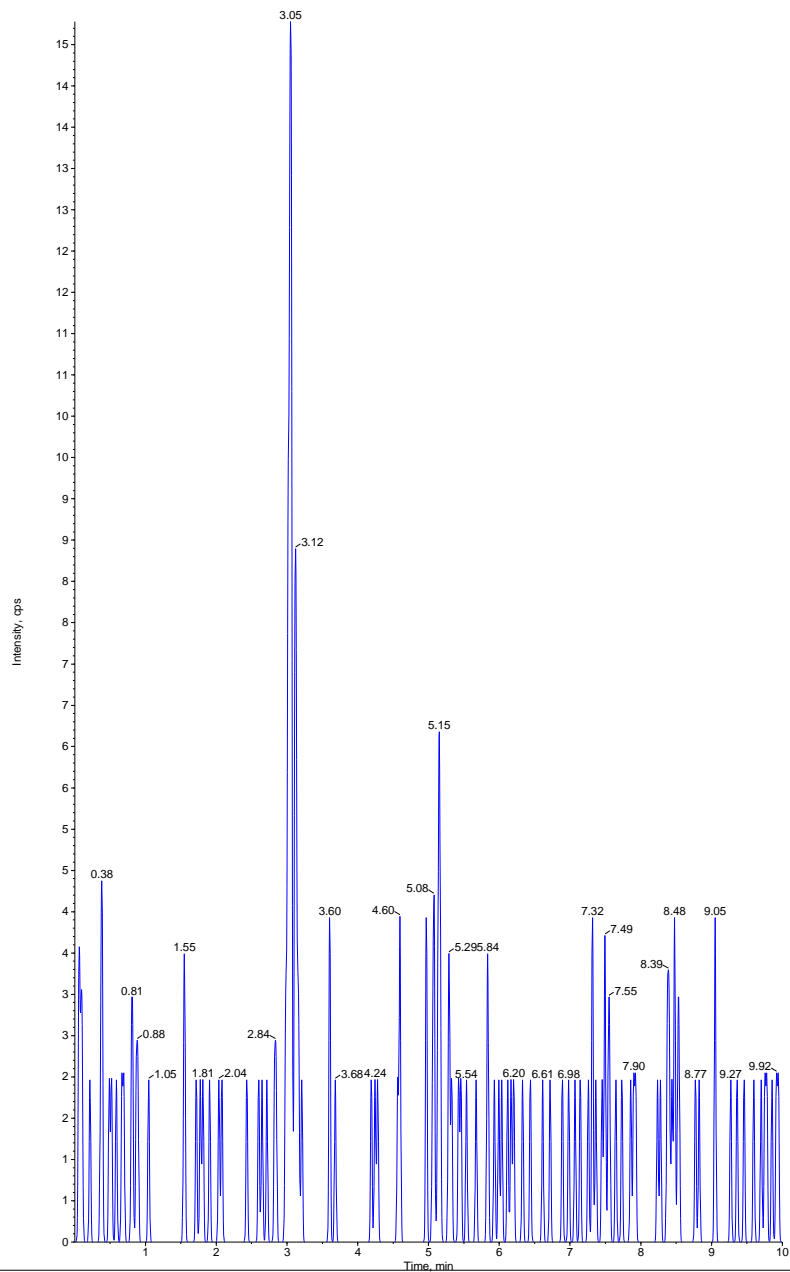


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Electronic Signature: no
Operator: Administrator



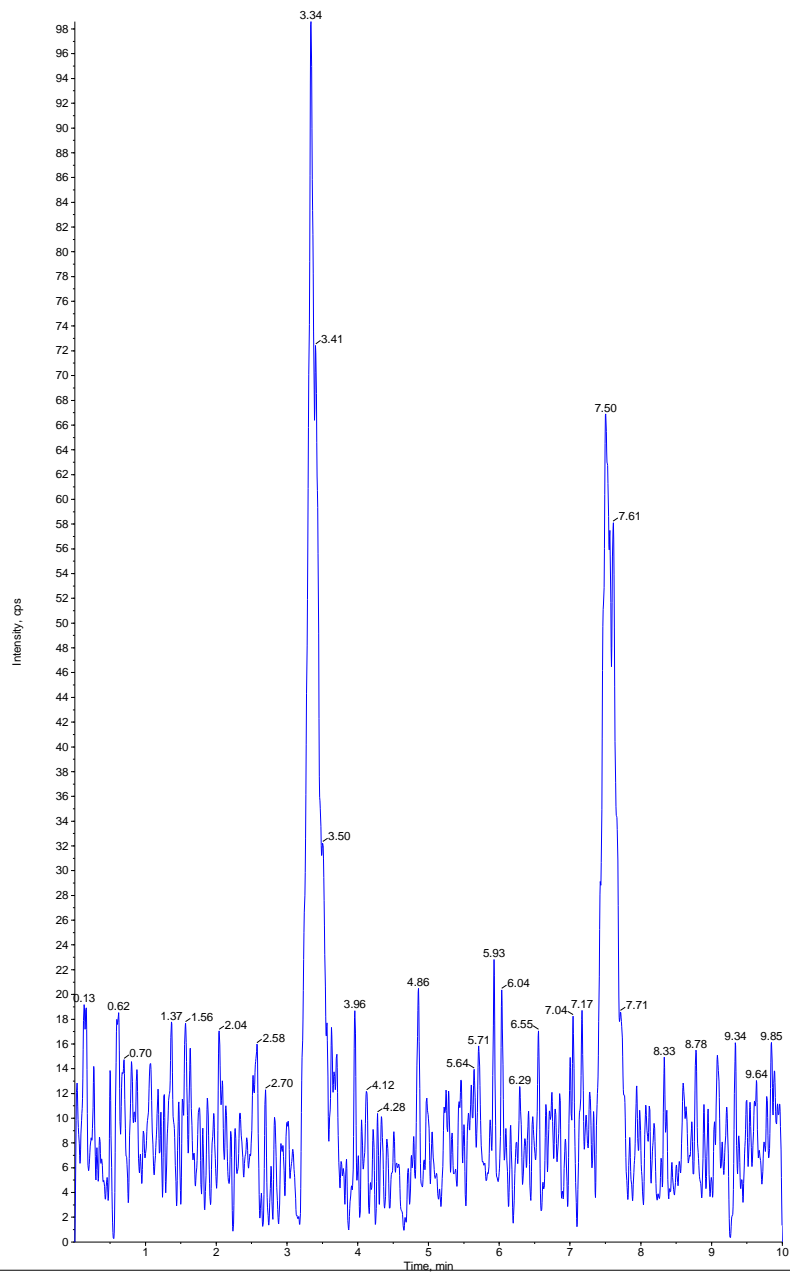
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "Blank01" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate-O18(O)" Mass(es): "107.089.0 amu"
Comment: "cal: 191205cal" Annotation: ""
Sample Index: 6
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/05/2019
Acq. Time: 11:38:26 AM
Modified: No



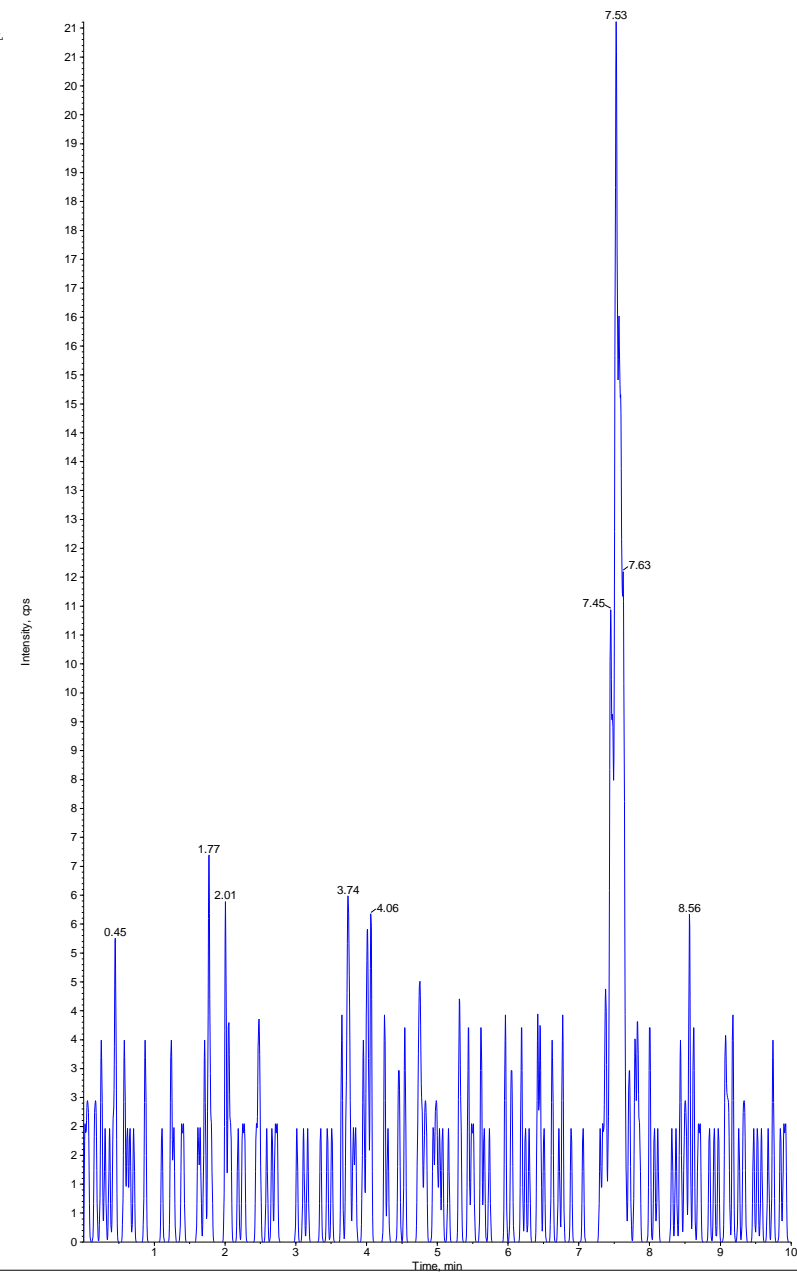
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Electronic Signature: no
Operator: Administrator

Sample Name: "Blank01S" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "IS lot#:190924isws" Annotation: ""
Sample Index: 7
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/05/2019
Acq. Time: 12:00:24 PM
Modified: No

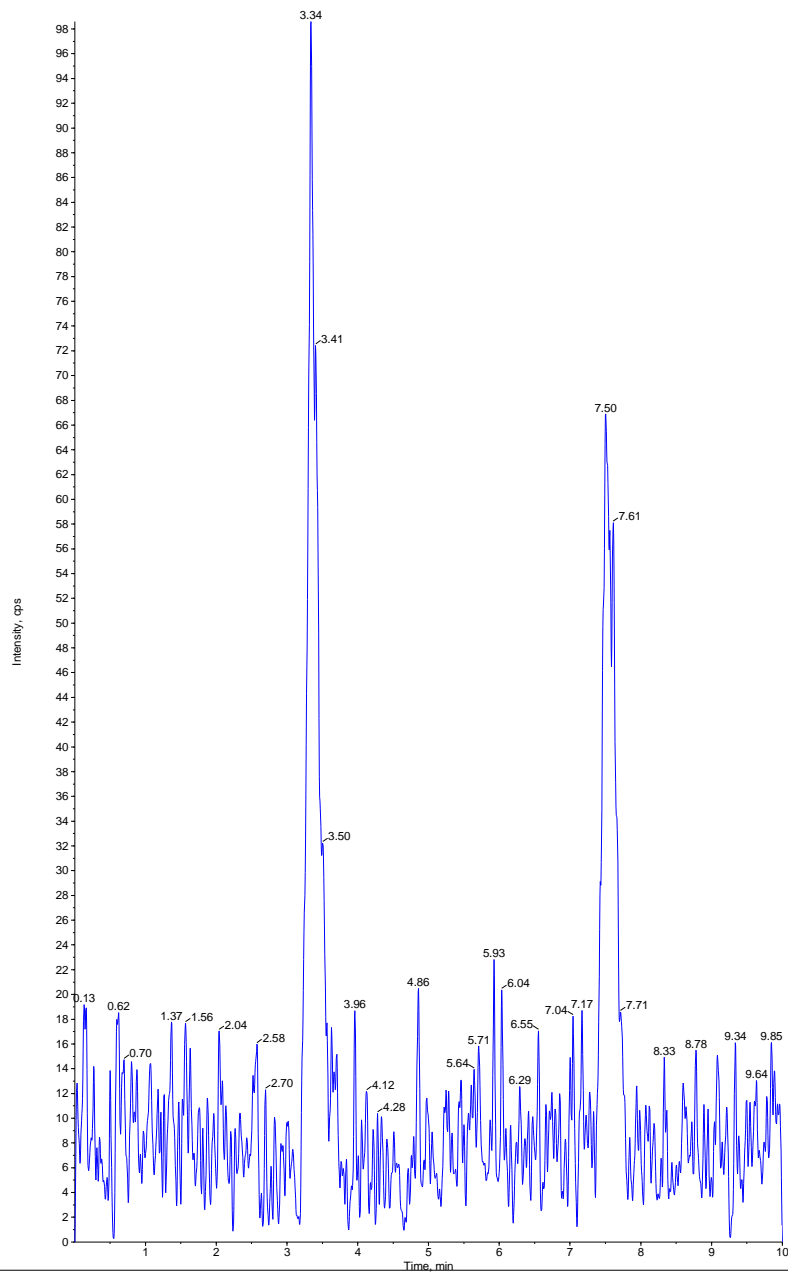


Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "Blank01S" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "IS lot#:190924isws" Annotation: ""
Sample Index: 7
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/05/2019
Acq. Time: 12:00:24 PM
Modified: No

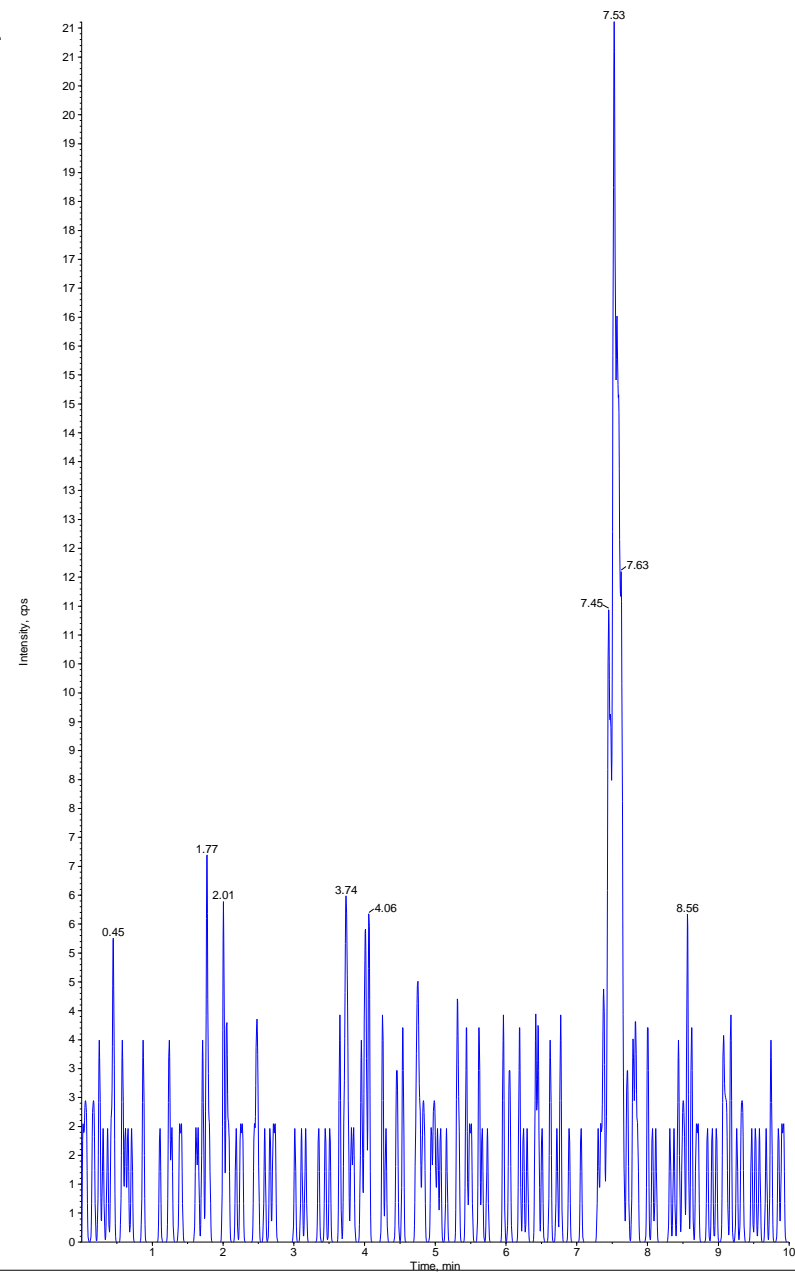


Sample Name: "Blank01S" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "IS lot#:190924isws" Annotation: ""
Sample Index: 7
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/05/2019
Acq. Time: 12:00:24 PM
Modified: No



Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "Blank01S" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "IS lot#:190924isws" Annotation: ""
Sample Index: 7
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/05/2019
Acq. Time: 12:00:24 PM
Modified: No

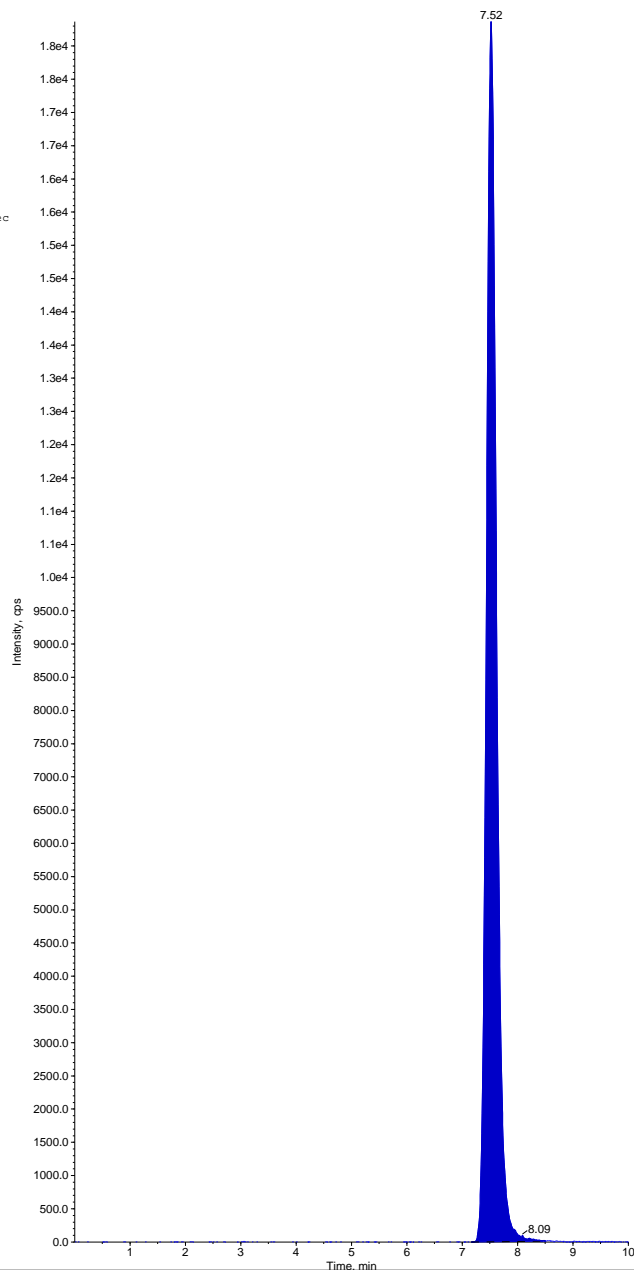


Sample Name: "Blank011S" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate-012(S)" Mass(es): "107.089.0 amu"
Comment: "IS lot#:190824sww" Annotation: ""

Sample Index: 7
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/05/2019
Acq. Time: 12:00:24 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smooths: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.52 min
Area: 235000 counts
Height: 18400 cps
Start Time: 7.16 min
End Time: 8.51 min



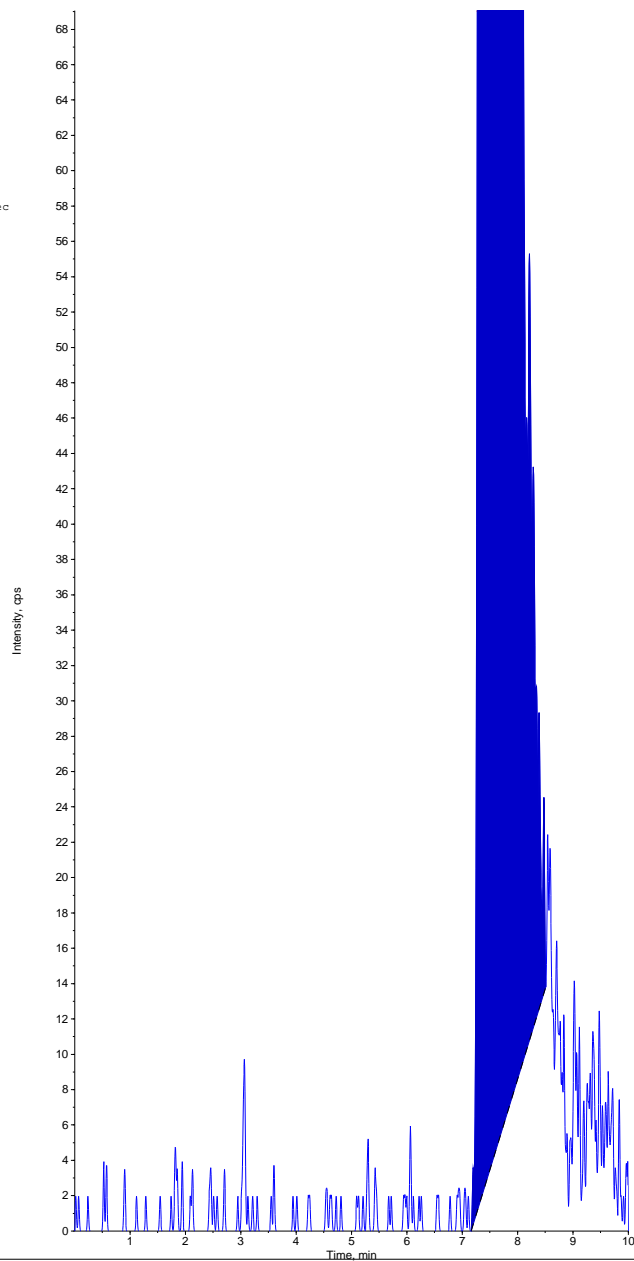
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "Blank011S" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate-018(S)" Mass(es): "107.0/89.0 amu"
Comment: "IS lot#:190824sww" Annotation: ""

Sample Index: 7
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/05/2019
Acq. Time: 12:00:24 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
,Num. Smooths: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.52 min
Area: 235000 counts
Height: 18400 cps
Start Time: 7.16 min
End Time: 8.51 min



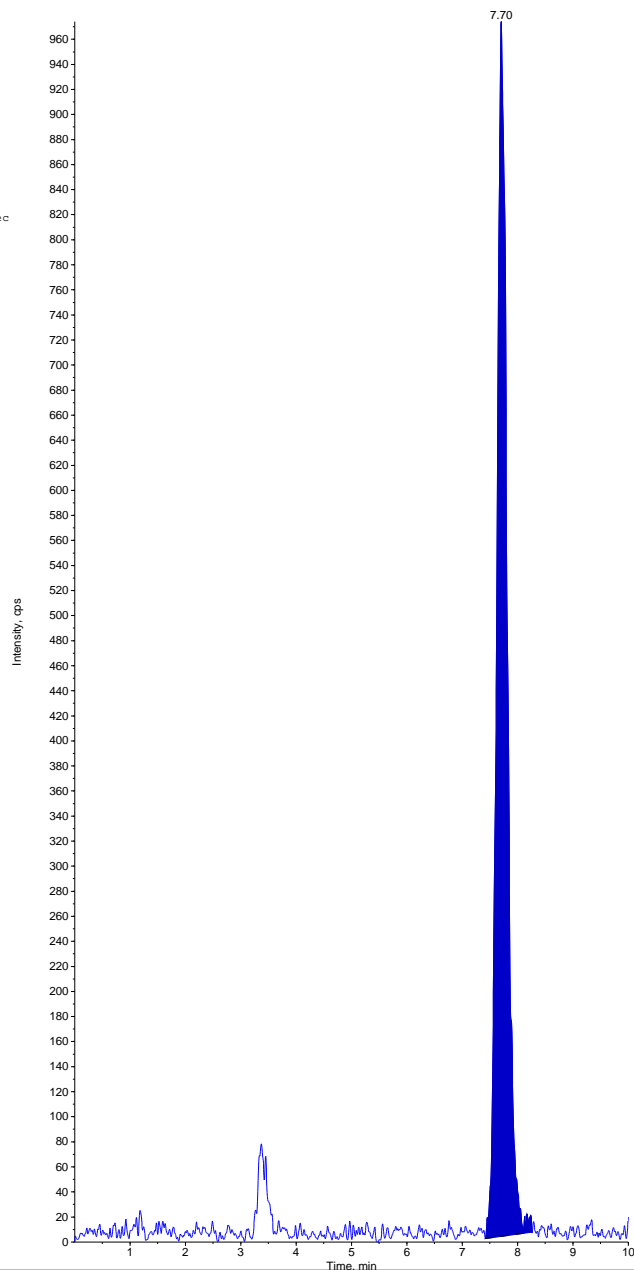
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "cal 0.05ppb (RL)" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "1911060.05ppb" Annotation: ""

Sample Index: 8
Sample Type: Standard
Concentration: 0.0500 ug/L
Calculated Conc: 0.0513 ug/L
Acq. Date: 12/05/2019
Acq. Time: 12:12:22 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 22
Noise Threshold: 20.00 cps
Area Threshold: 100.00 cps
,Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.70 min
Area: 12600 counts
Height: 971 cps
Start Time: 7.42 min
End Time: 8.26 min

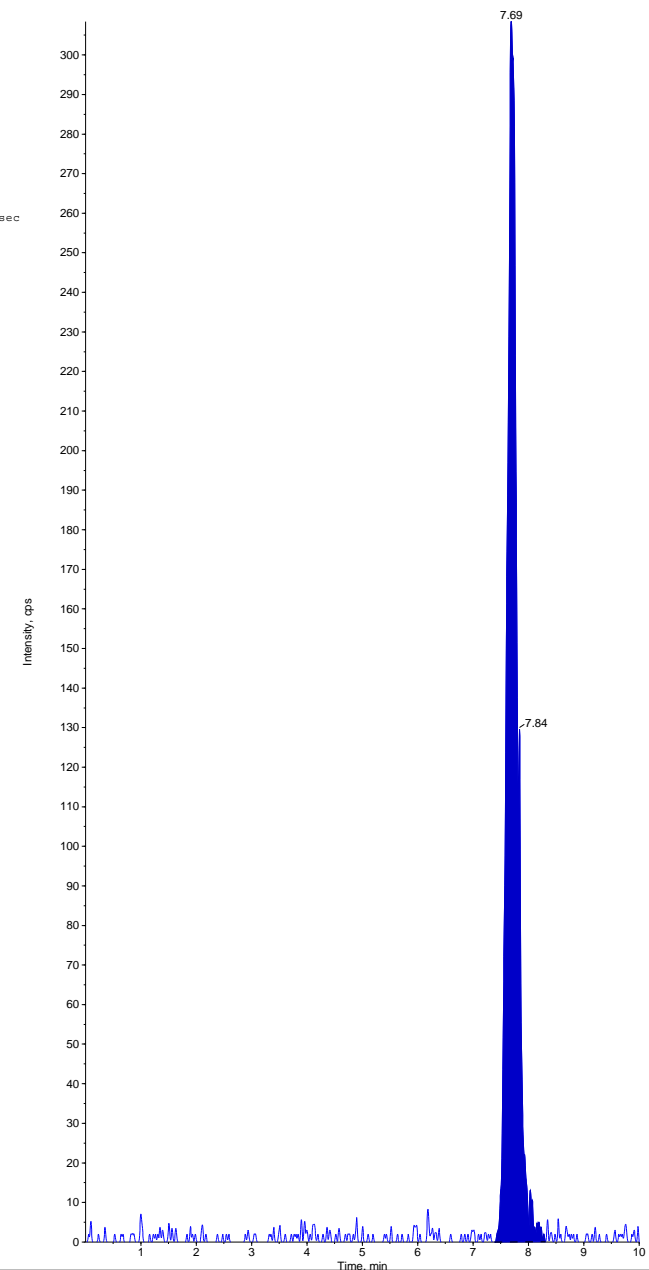


Sample Name: "cal 0.05ppb (RL)" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "1911060.05ppb" Annotation: ""

Sample Index: 8
Sample Type: Standard
Concentration: 0.0500 ug/L
Calculated Conc: 0.0509 ug/L
Acq. Date: 12/05/2019
Acq. Time: 12:12:22 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 22
Noise Threshold: 20.00 cps
Area Threshold: 100.00 cps
,Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.69 min
Area: 4030 counts
Height: 308 cps
Start Time: 7.39 min
End Time: 8.31 min



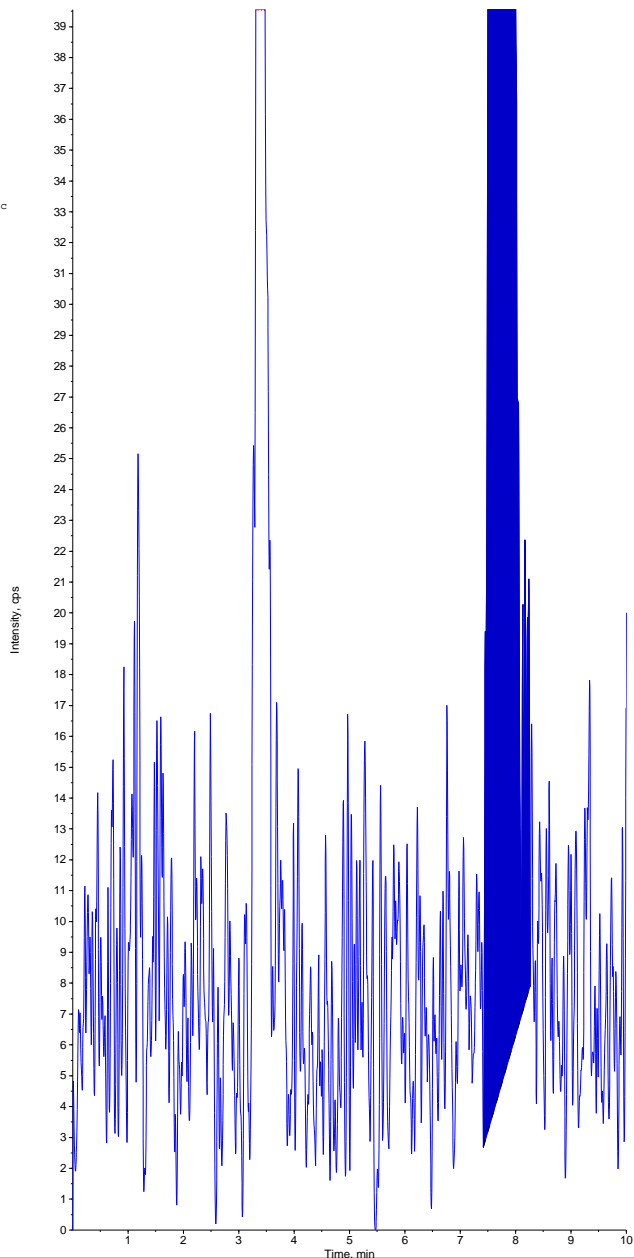
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "cal 0.05ppb (RL)" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "1911060.05ppb" Annotation: ""

Sample Index: 8
Sample Type: Standard
Concentration: 0.0500 ug/L
Calculated Conc: 0.0513 ug/L
Acq. Date: 12/05/2019
Acq. Time: 12:12:22 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 22
Noise Threshold: 20.00 cps
Area Threshold: 100.00 cps
,Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.70 min
Area: 12600 counts
Height: 971 cps
Start Time: 7.42 min
End Time: 8.26 min

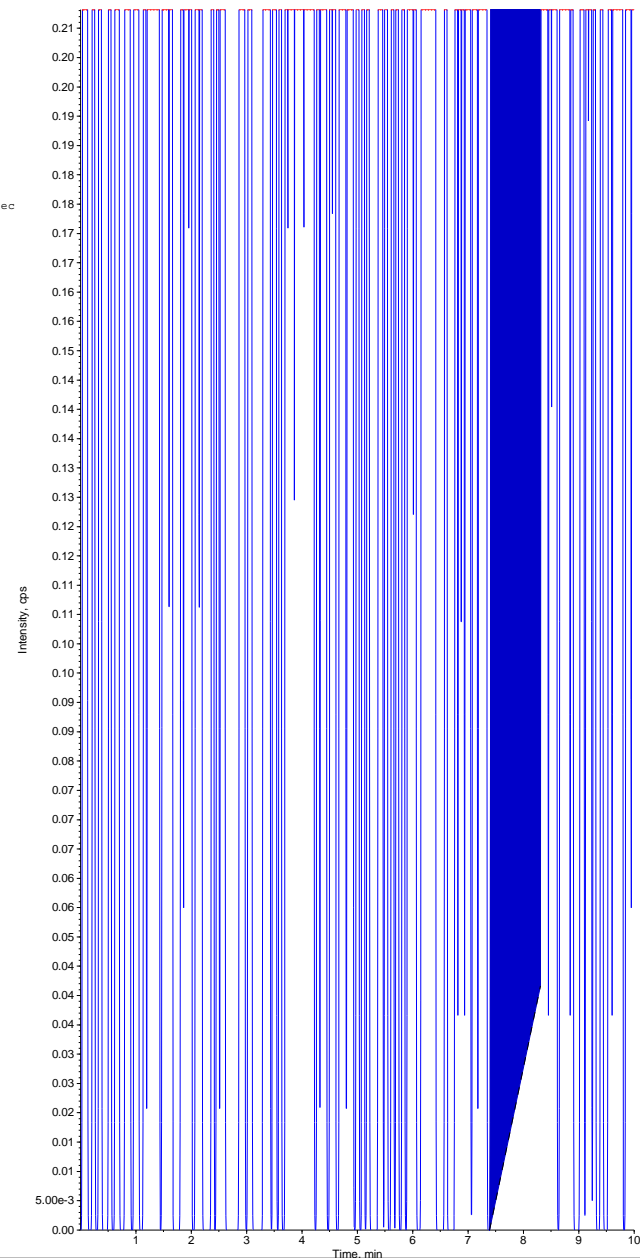


Sample Name: "cal 0.05ppb (RL)" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "1911060.05ppb" Annotation: ""

Sample Index: 8
Sample Type: Standard
Concentration: 0.0500 ug/L
Calculated Conc: 0.0509 ug/L
Acq. Date: 12/05/2019
Acq. Time: 12:12:22 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 22
Noise Threshold: 20.00 cps
Area Threshold: 100.00 cps
,Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.69 min
Area: 4030 counts
Height: 308 cps
Start Time: 7.39 min
End Time: 8.31 min



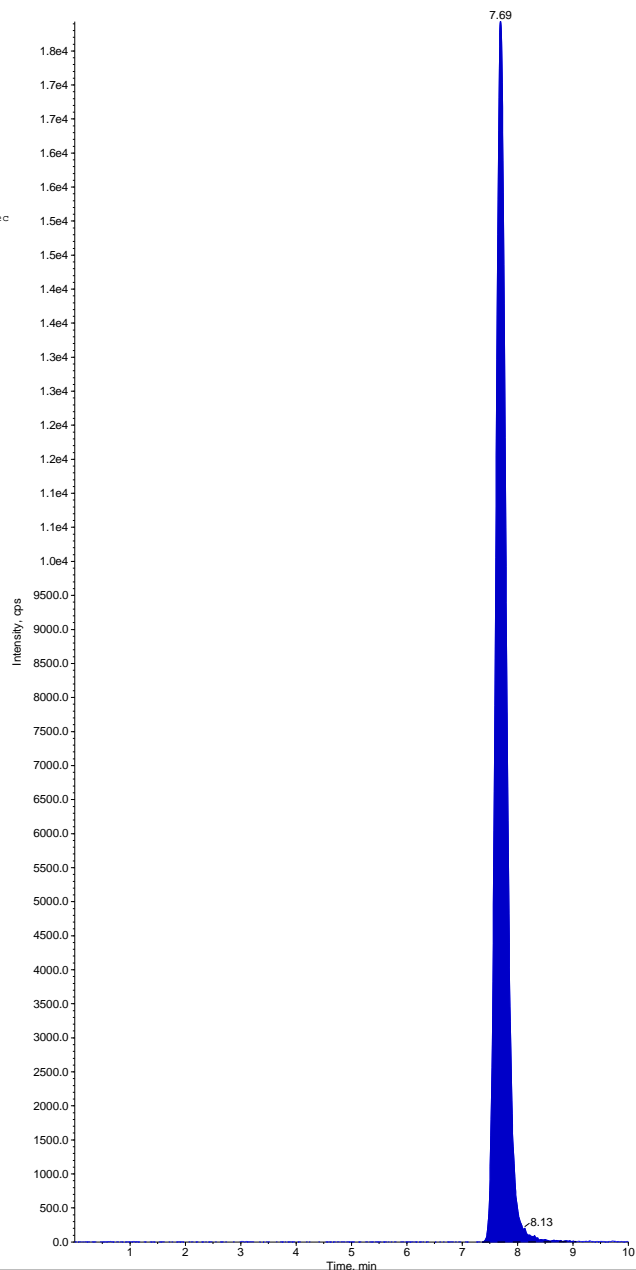
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'cal 0.05ppb (RL)' Sample ID: '' File: '191205cal.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: '1911060.05ppb' Annotation: ''

Sample Index: 8
Sample Type: Standard
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/05/2019
Acq. Time: 12:12:22 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.69 min
Area: 239000 counts
Height: 17900 cps
Start Time: 7.36 min
End Time: 9.06 min



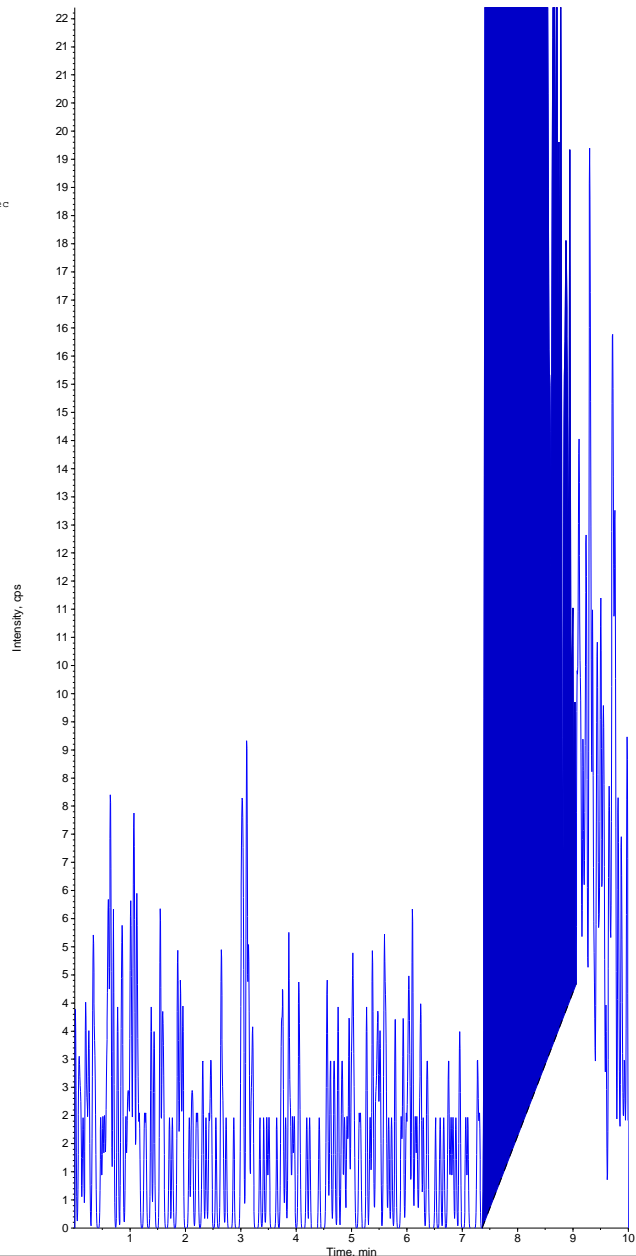
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "cal 0.05ppb (RL)" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate-Cl(35)" Mass(es): "107.089.0 amu"
Comment: "1911060.05ppb" Annotation: ""

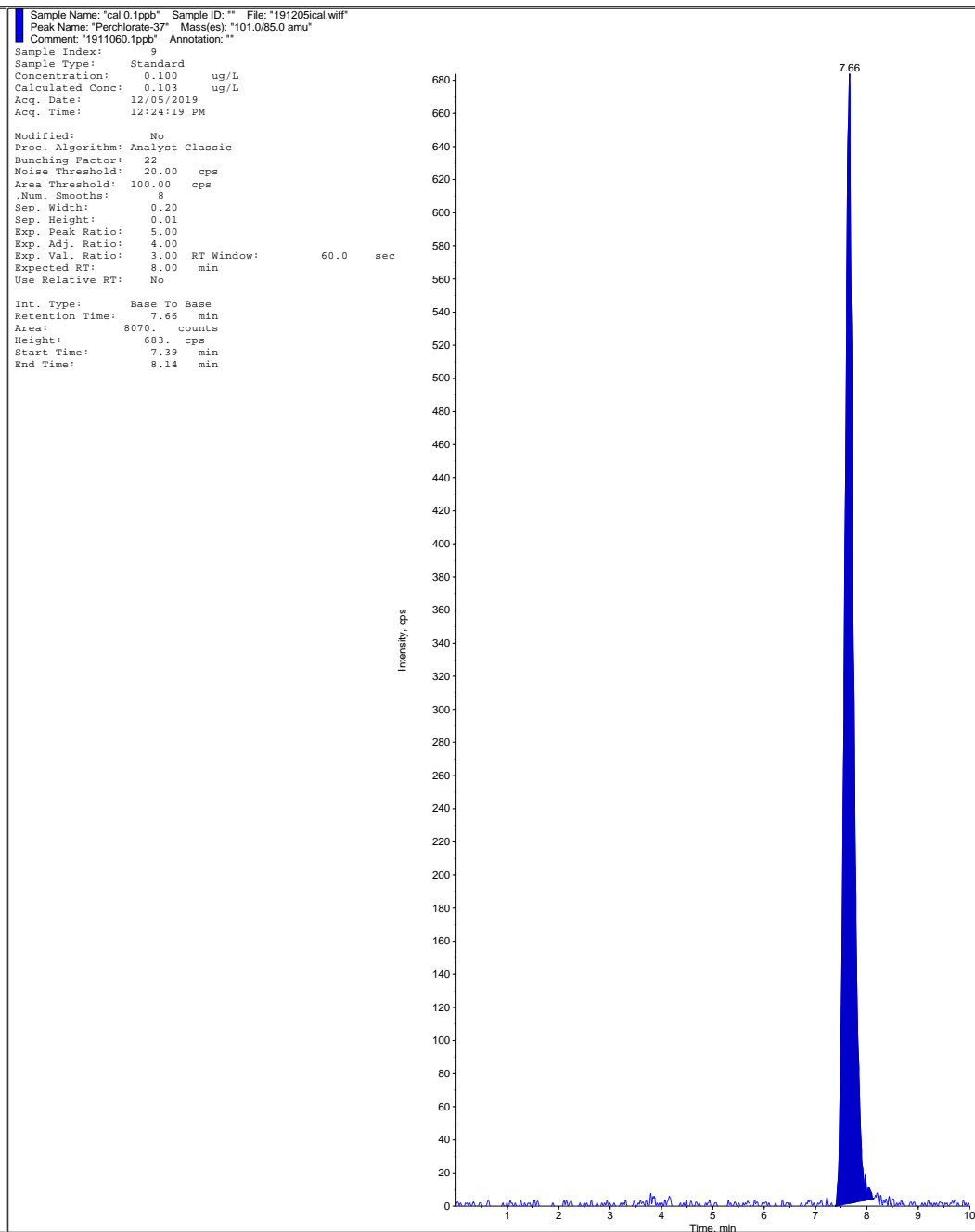
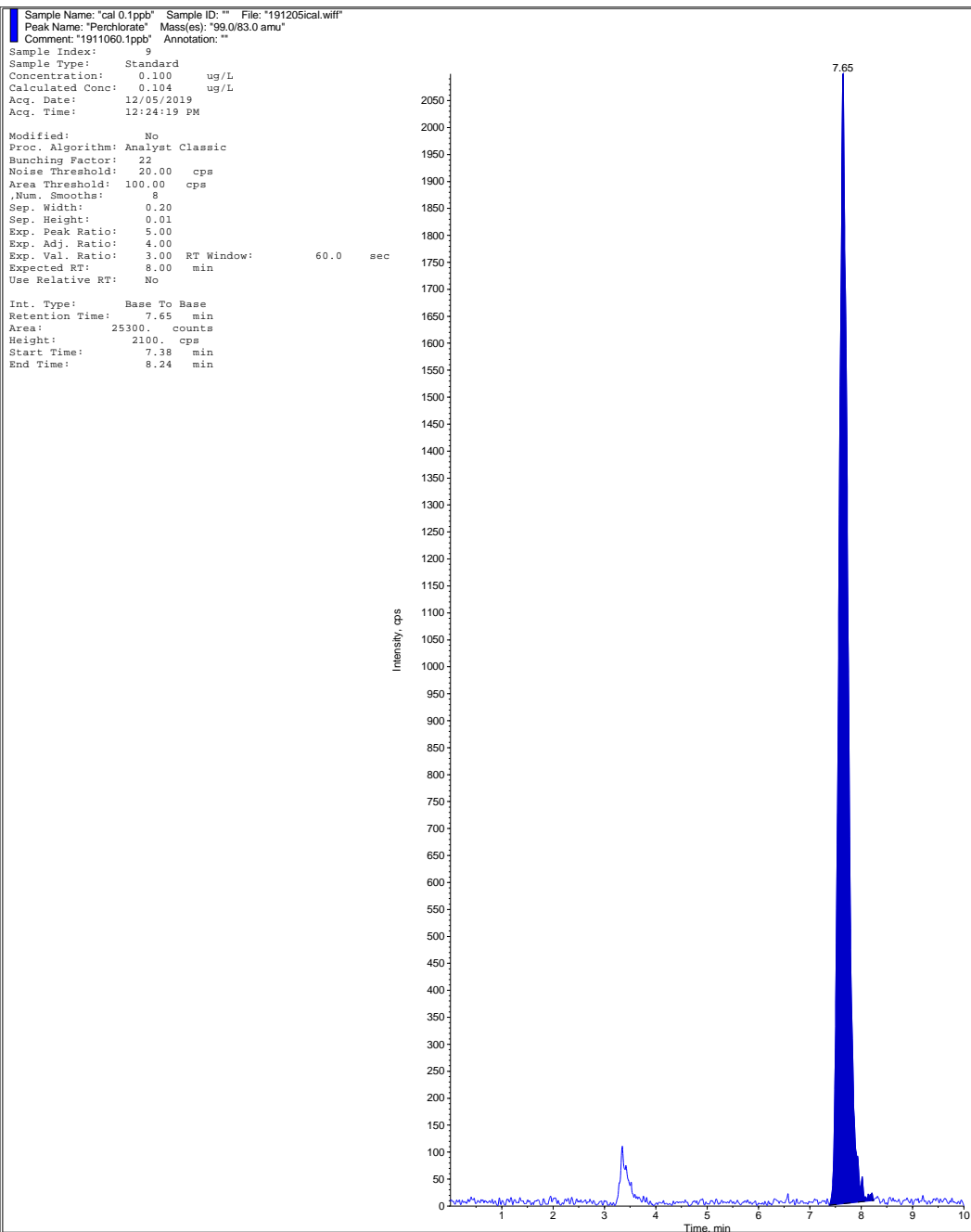
Sample Index: 8
Sample Type: Standard
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/05/2019
Acq. Time: 12:12:22 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
,Num. Smooths: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

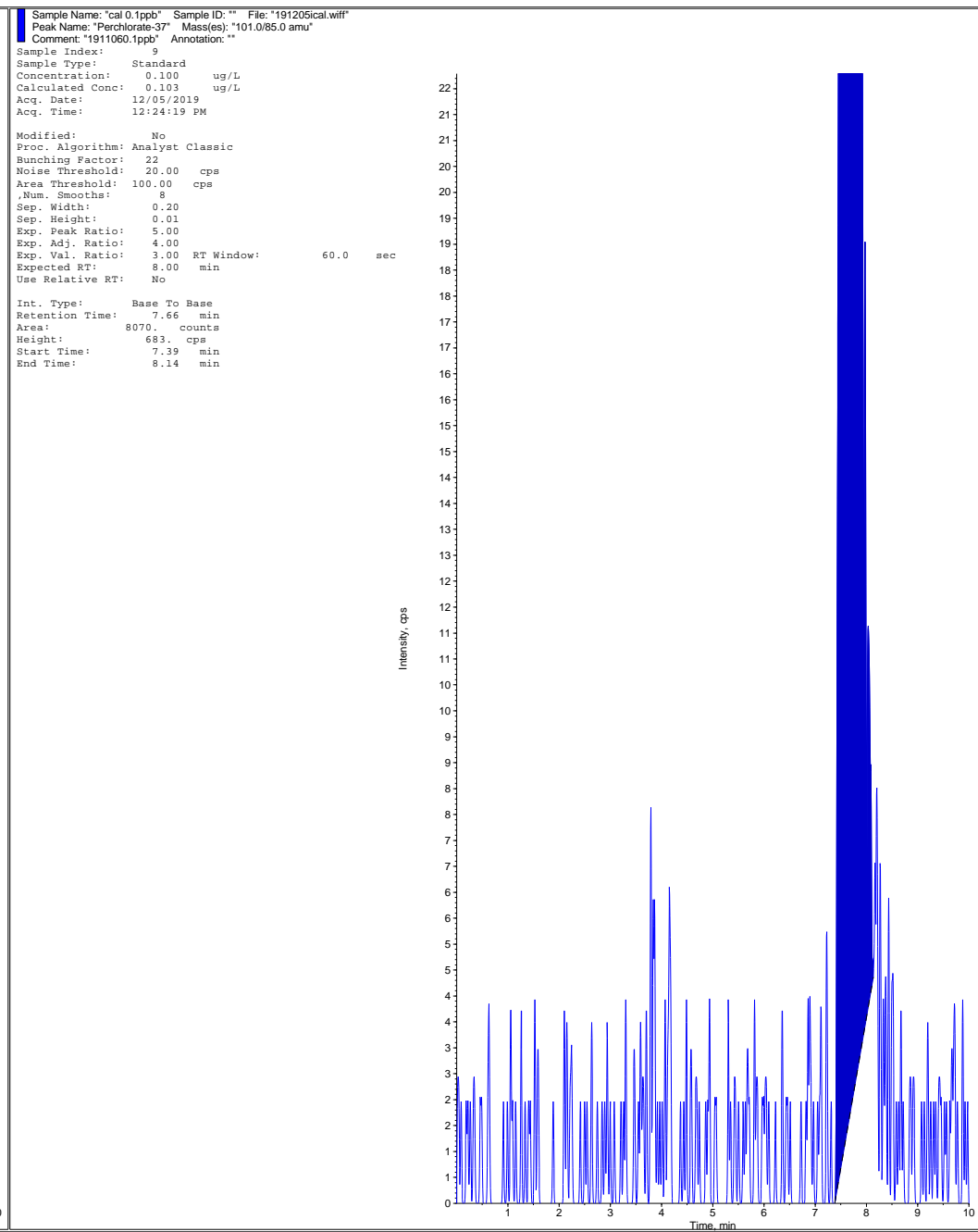
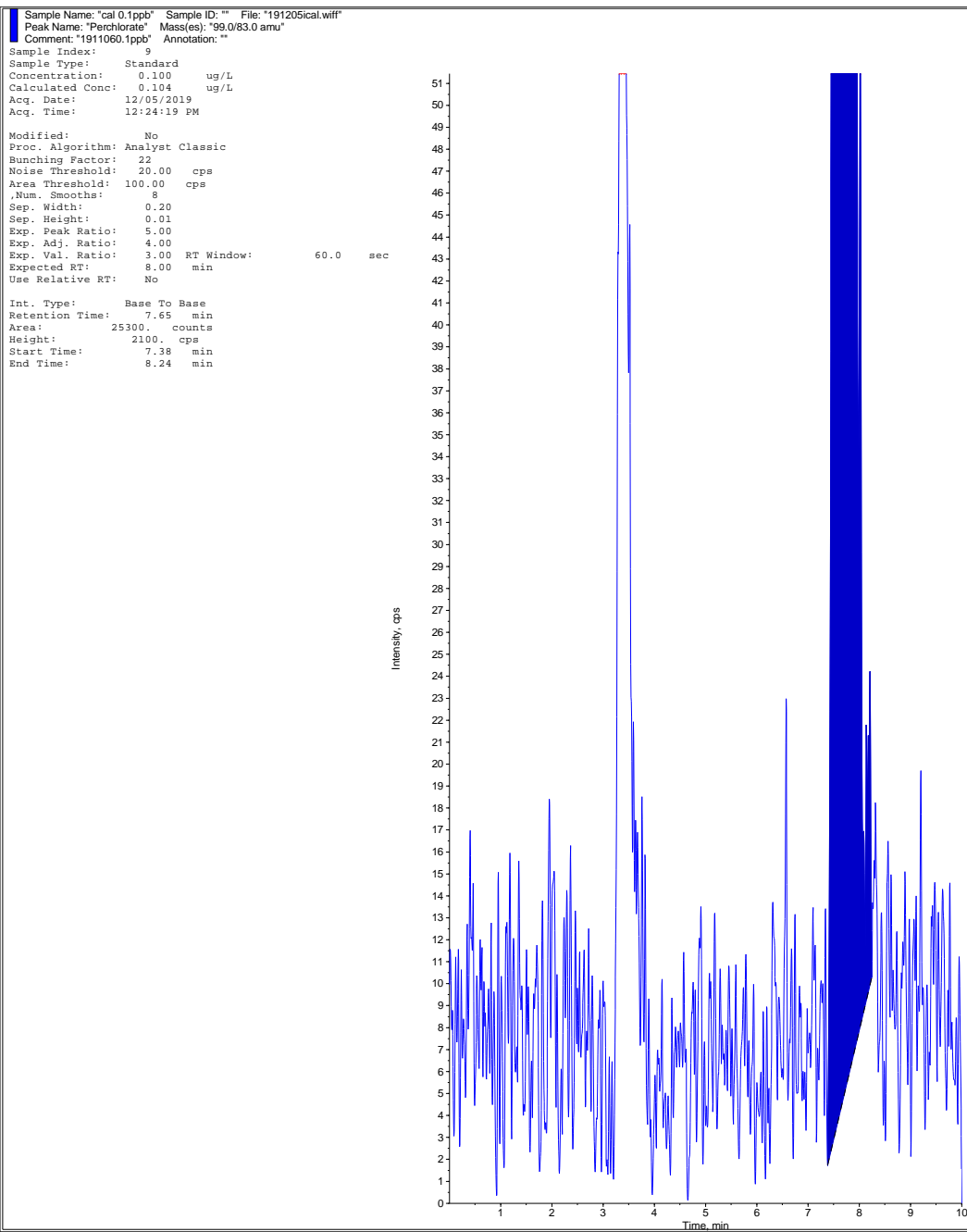
Int. Type: Base To Base
Retention Time: 7.69 min
Area: 239000 counts
Height: 17900 cps
Start Time: 7.36 min
End Time: 9.06 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator



Collected by: N/A
Electronic Signature: no
Operator: Administrator



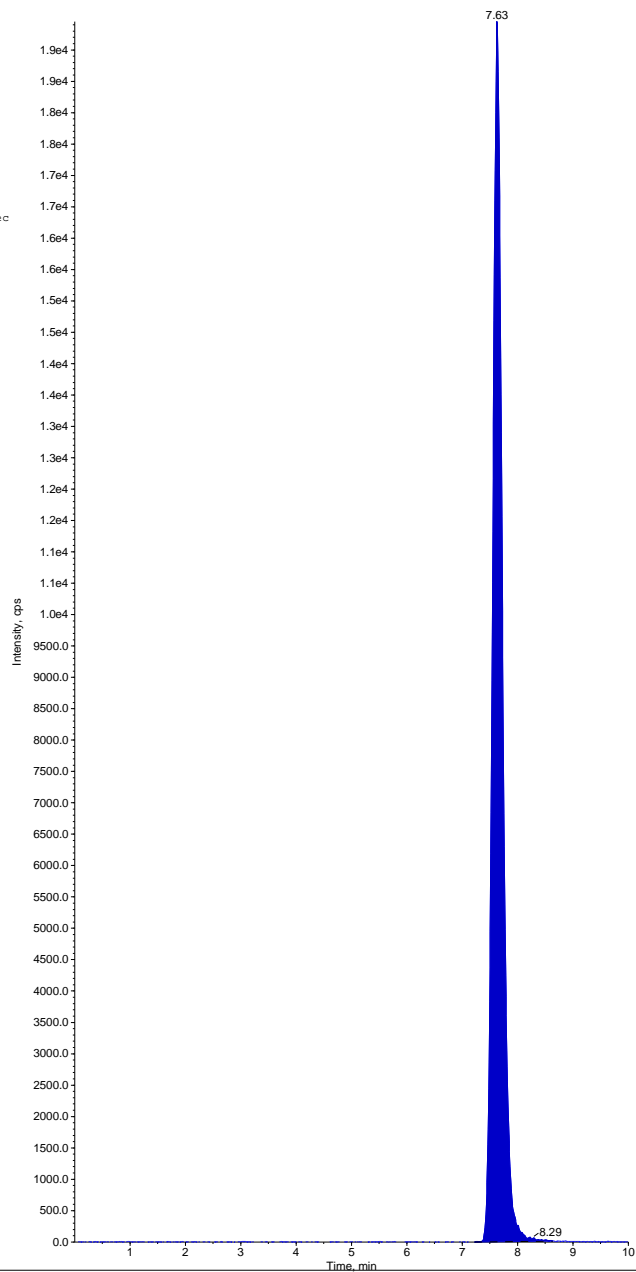
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "cal 0.1ppb" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate-O18(3)" Mass(es): "107.089.0 amu"
Comment: "1911060.1ppb" Annotation: ""

Sample Index: 9
Sample Type: Standard
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/05/2019
Acq. Time: 12:24:19 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smooths: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.63 min
Area: 240000 counts
Height: 19500. cps
Start Time: 7.22 min
End Time: 8.64 min



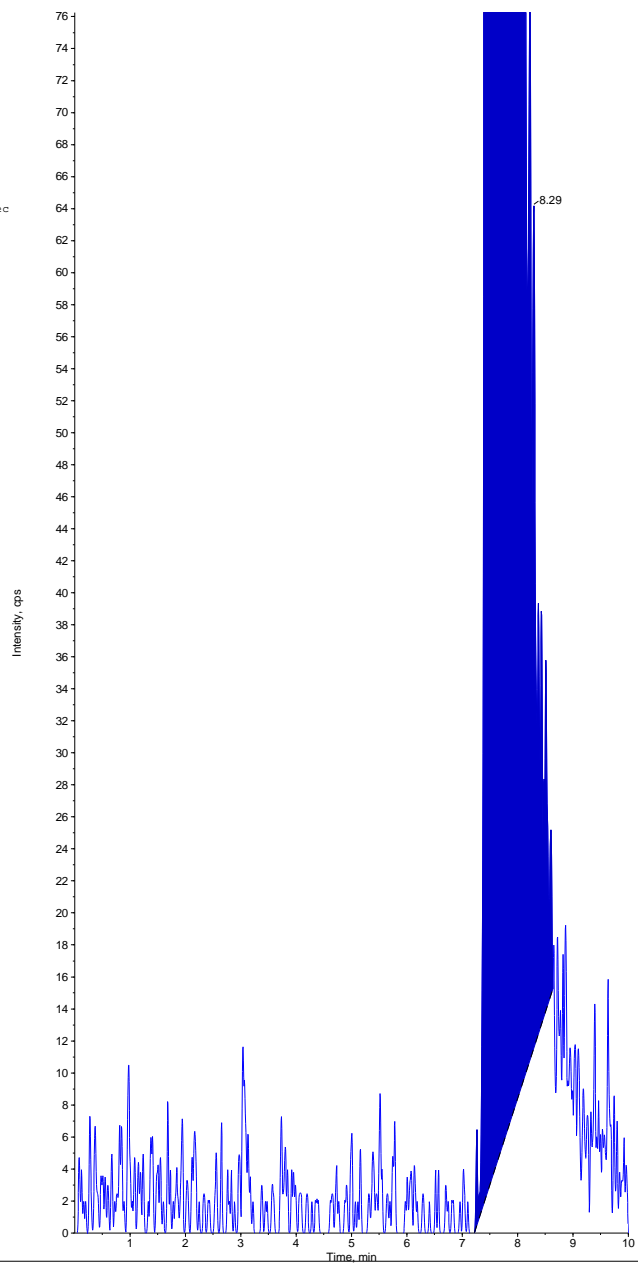
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'cal 0.1ppb' Sample ID: '' File: '191205cal.wiff'
Peak Name: 'Perchlorate-O18(3)' Mass(es): '107.089.0 amu'
Comment: '1911060.1ppb' Annotation: ''

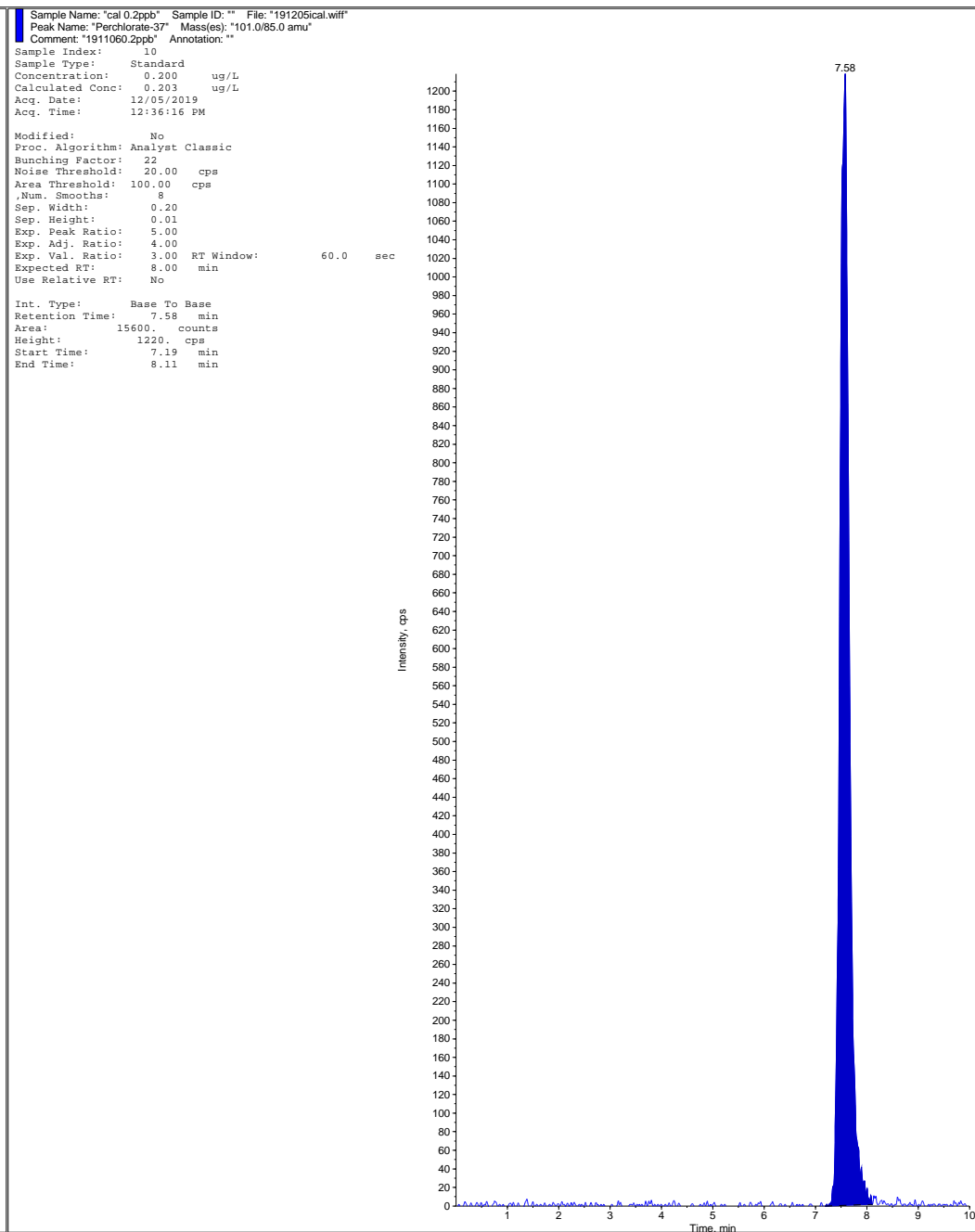
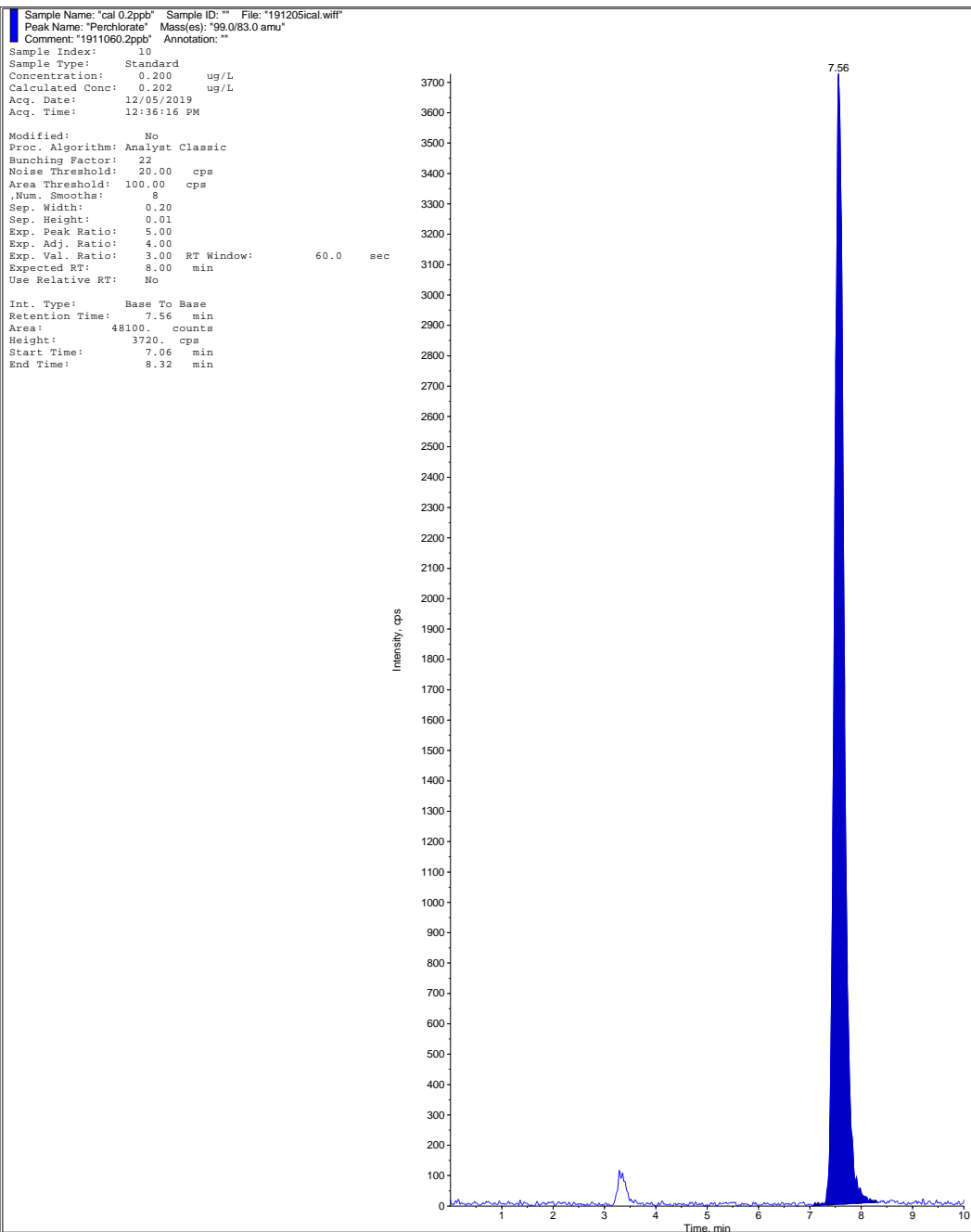
Sample Index: 9
Sample Type: Standard
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/05/2019
Acq. Time: 12:24:19 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
,Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.63 min
Area: 240000 counts
Height: 19500 cps
Start Time: 7.22 min
End Time: 8.64 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator



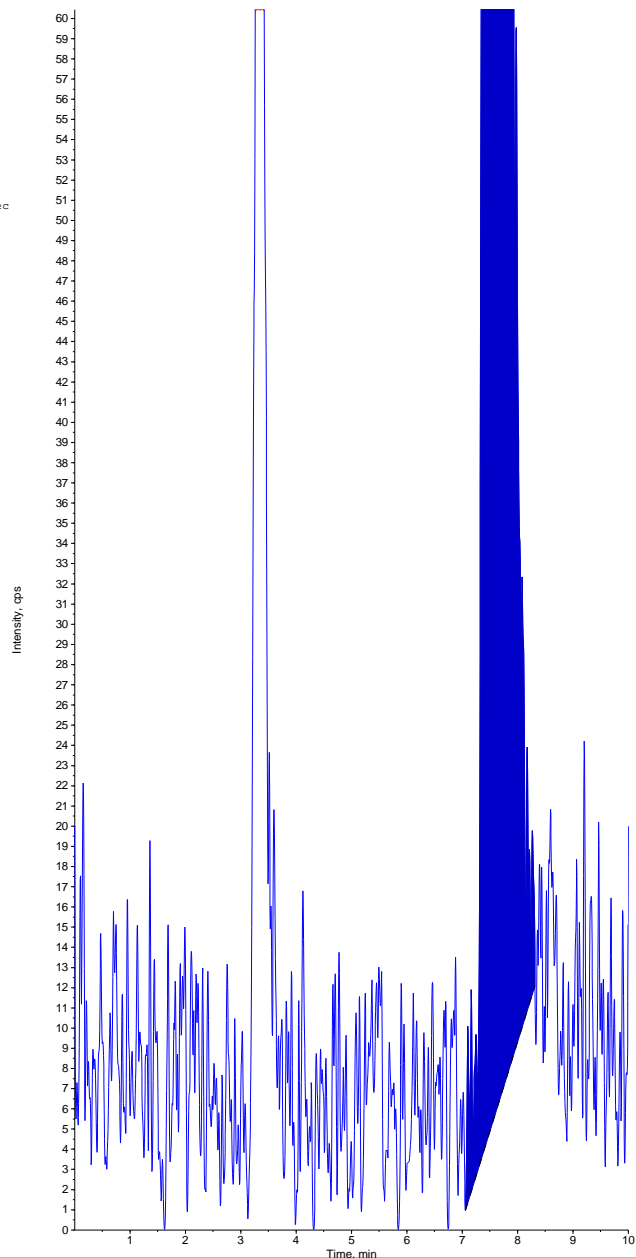
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "cal 0.2ppb" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "1911060.2ppb" Annotation: ""

Sample Index: 10
Sample Type: Standard
Concentration: 0.200 ug/L
Calculated Conc: 0.202 ug/L
Acq. Date: 12/05/2019
Acq. Time: 12:36:16 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 22
Noise Threshold: 20.00 cps
Area Threshold: 100.00 cps
,Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.56 min
Area: 48100. counts
Height: 3720. cps
Start Time: 7.06 min
End Time: 8.32 min

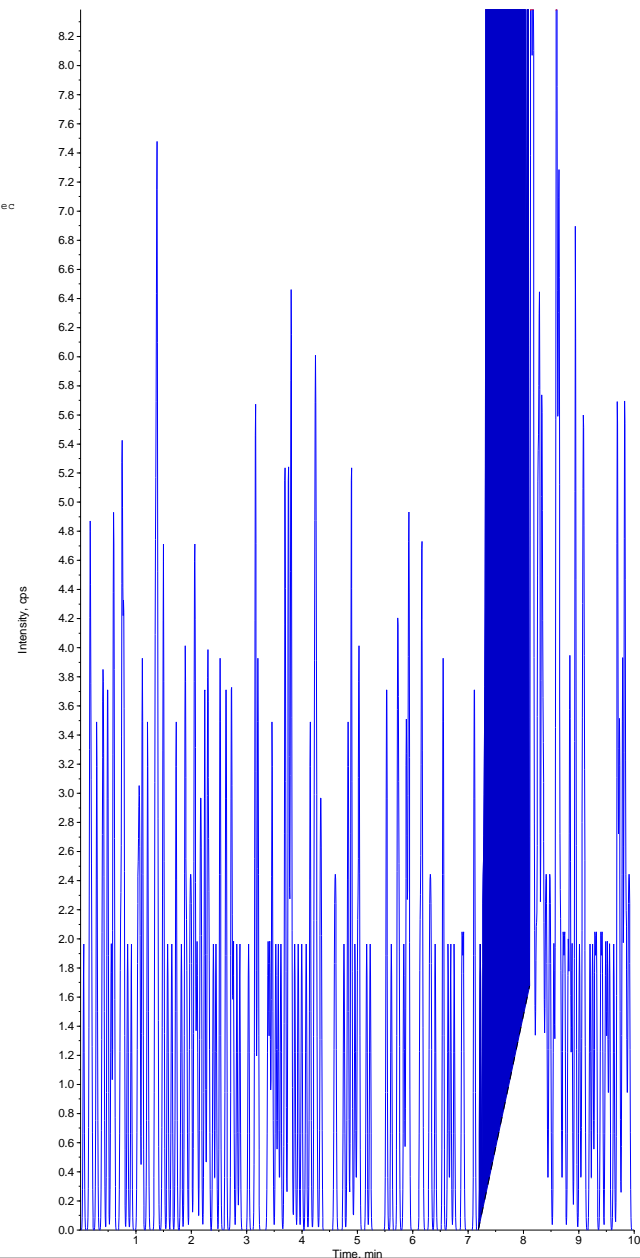


Sample Name: "cal 0.2ppb" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "1911060.2ppb" Annotation: ""

Sample Index: 10
Sample Type: Standard
Concentration: 0.200 ug/L
Calculated Conc: 0.203 ug/L
Acq. Date: 12/05/2019
Acq. Time: 12:36:16 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 22
Noise Threshold: 20.00 cps
Area Threshold: 100.00 cps
,Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.58 min
Area: 15600. counts
Height: 1220. cps
Start Time: 7.19 min
End Time: 8.11 min



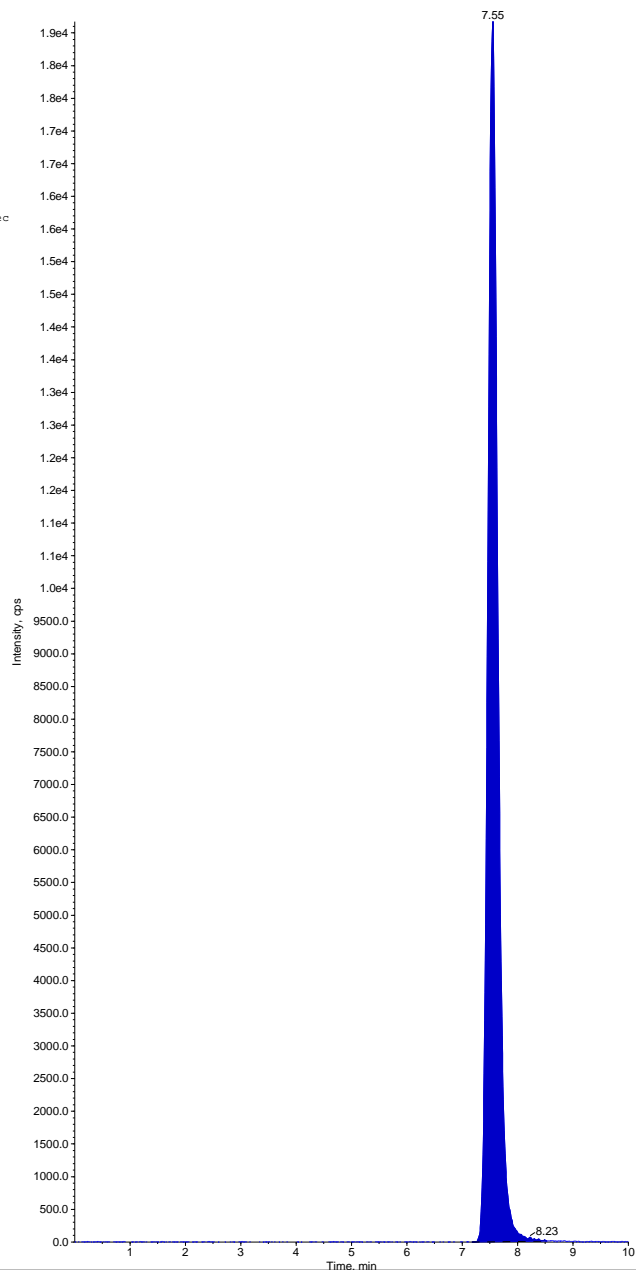
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "cal 0.2ppb" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate-O18(3)" Mass(es): "107.089.0 amu"
Comment: "1911060.2ppb" Annotation: ""

Sample Index: 10
Sample Type: Standard
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/05/2019
Acq. Time: 12:36:16 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.55 min
Area: 237000 counts
Height: 18700 cps
Start Time: 7.18 min
End Time: 8.53 min



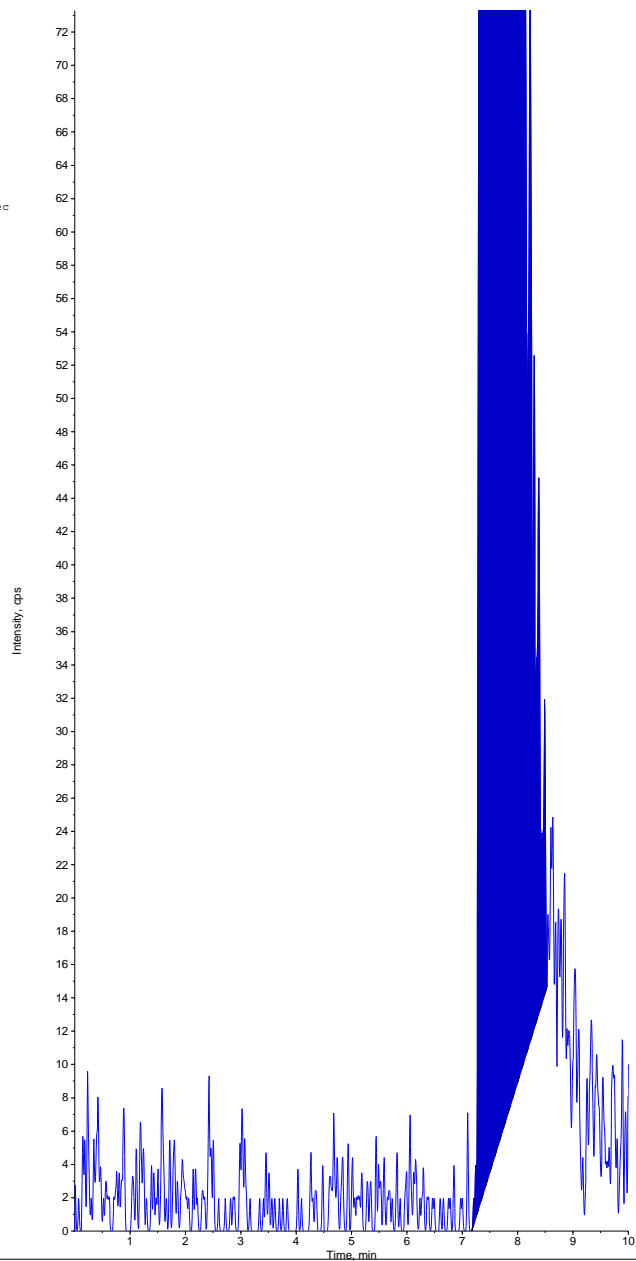
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'cal 0.2ppb' Sample ID: '' File: '191205cal.wiff'
Peak Name: 'Perchlorate-O18(3)' Mass(es): '107.089.0 amu'
Comment: '1911060.2ppb' Annotation: ''

Sample Index: 10
Sample Type: Standard
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/05/2019
Acq. Time: 12:36:16 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
,Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.55 min
Area: 237000 counts
Height: 18700 cps
Start Time: 7.18 min
End Time: 8.53 min



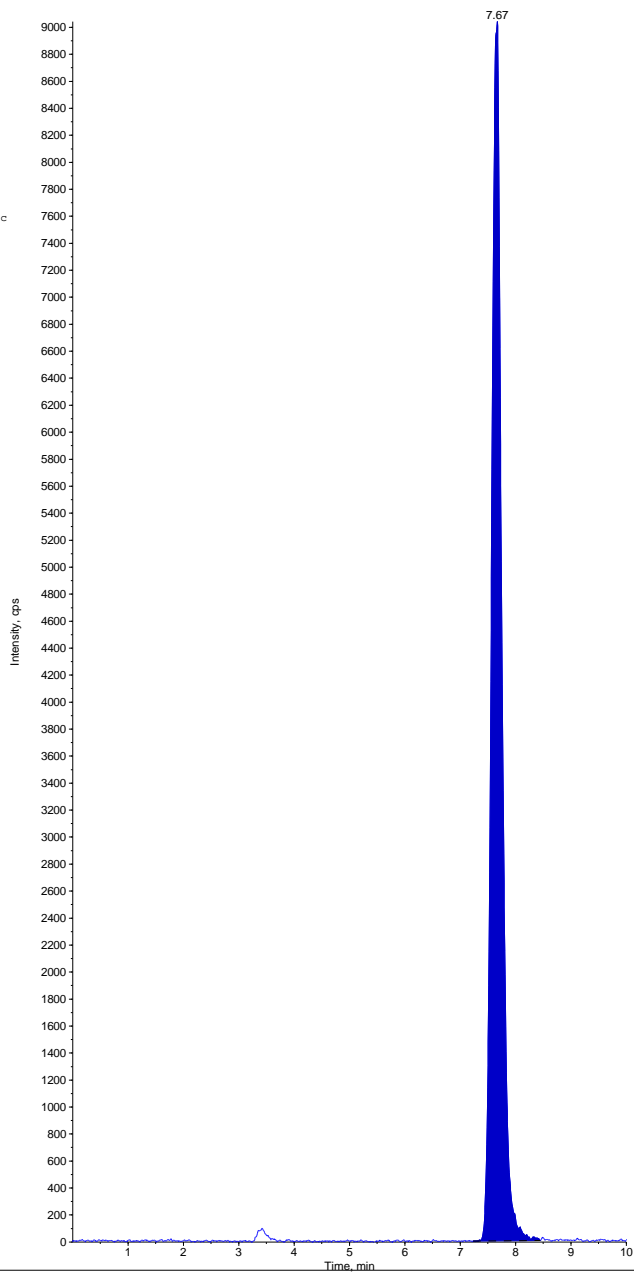
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "cal 0.5ppb" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "1911060.5ppb" Annotation: ""

Sample Index: 11
Sample Type: Standard
Concentration: 0.500 ug/L
Calculated Conc: 0.491 ug/L
Acq. Date: 12/05/2019
Acq. Time: 12:48:14 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 22
Noise Threshold: 20.00 cps
Area Threshold: 100.00 cps
,Num. Smooths: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.67 min
Area: 116000 counts
Height: 9040 cps
Start Time: 7.23 min
End Time: 8.45 min

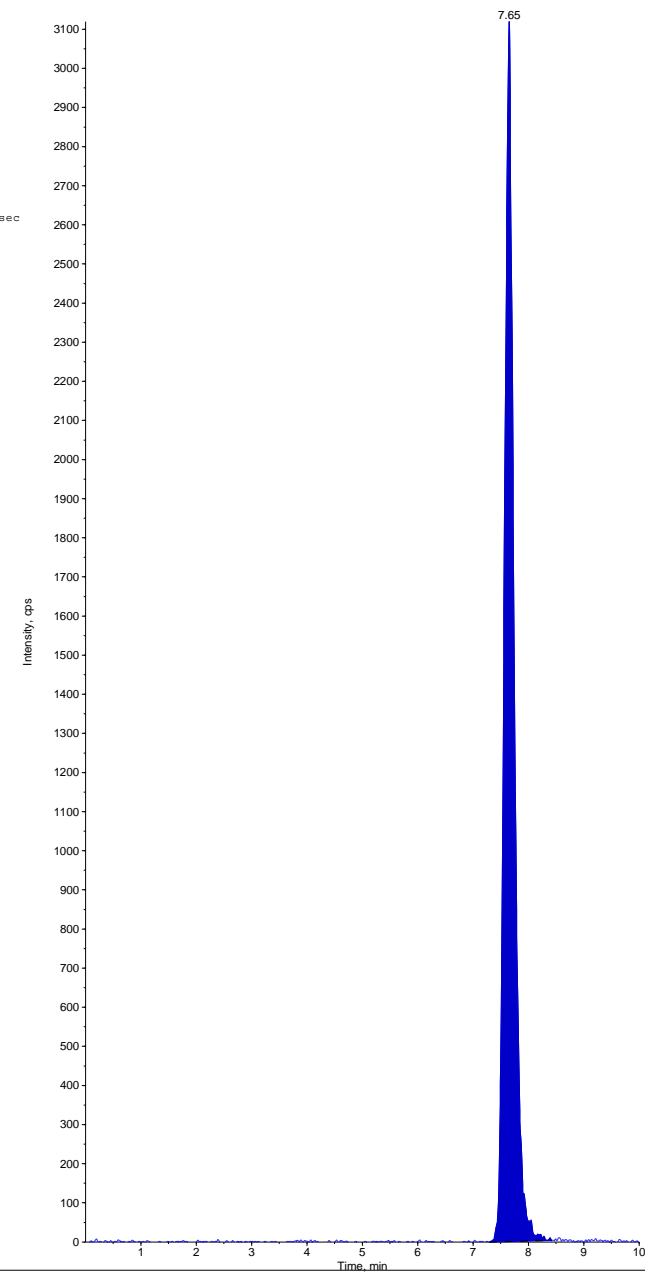


Sample Name: "cal 0.5ppb" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "1911060.5ppb" Annotation: ""

Sample Index: 11
Sample Type: Standard
Concentration: 0.500 ug/L
Calculated Conc: 0.496 ug/L
Acq. Date: 12/05/2019
Acq. Time: 12:48:14 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 22
Noise Threshold: 20.00 cps
Area Threshold: 100.00 cps
,Num. Smooths: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.65 min
Area: 37800 counts
Height: 3120 cps
Start Time: 7.30 min
End Time: 8.42 min



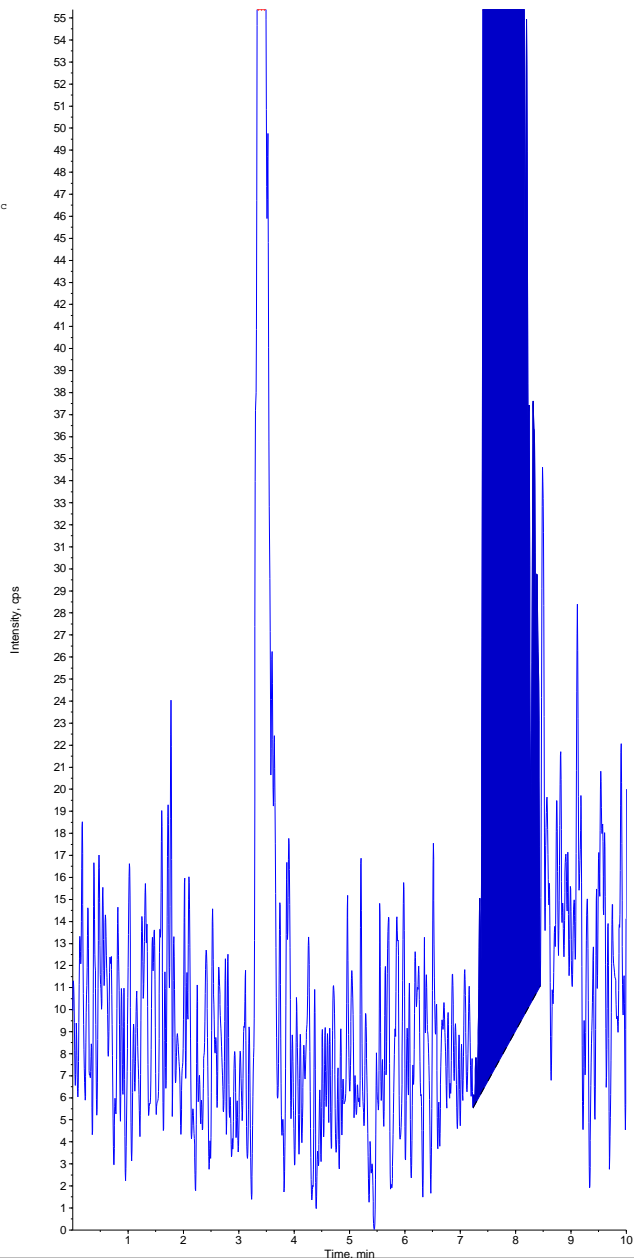
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "cal 0.5ppb" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "1911060.5ppb" Annotation: ""

Sample Index: 11
Sample Type: Standard
Concentration: 0.500 ug/L
Calculated Conc: 0.491 ug/L
Acq. Date: 12/05/2019
Acq. Time: 12:48:14 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 22
Noise Threshold: 20.00 cps
Area Threshold: 100.00 cps
,Num. Smooths: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.67 min
Area: 116000 counts
Height: 9040 cps
Start Time: 7.23 min
End Time: 8.45 min

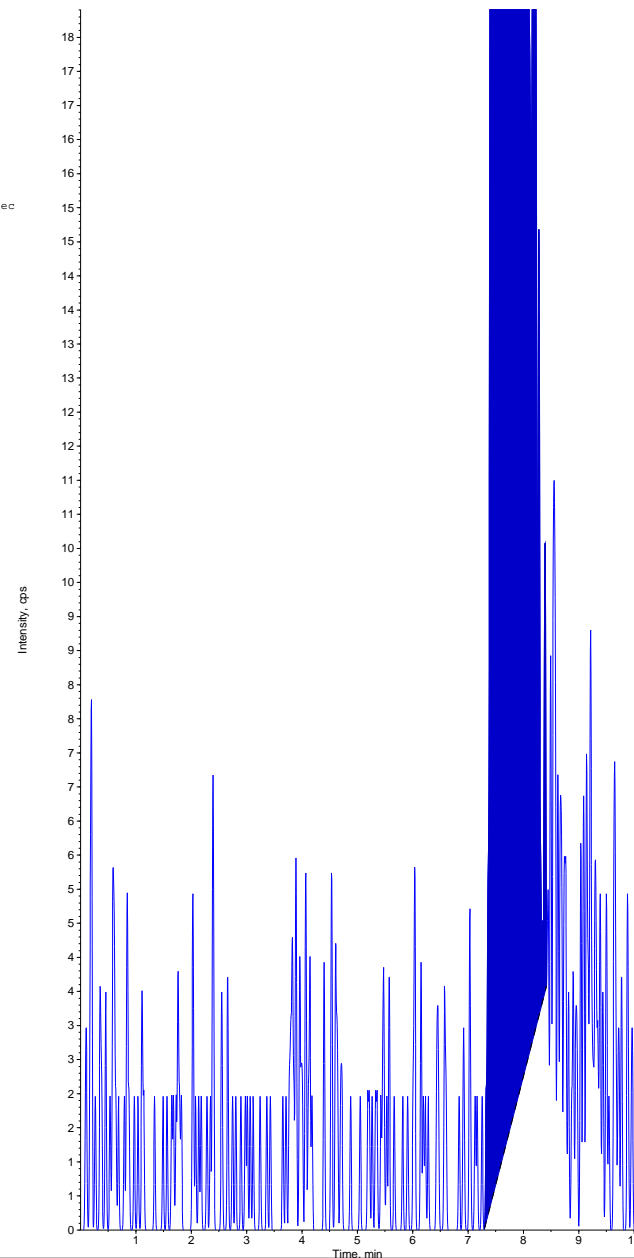


Sample Name: "cal 0.5ppb" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "1911060.5ppb" Annotation: ""

Sample Index: 11
Sample Type: Standard
Concentration: 0.500 ug/L
Calculated Conc: 0.496 ug/L
Acq. Date: 12/05/2019
Acq. Time: 12:48:14 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 22
Noise Threshold: 20.00 cps
Area Threshold: 100.00 cps
,Num. Smooths: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.65 min
Area: 37800 counts
Height: 3120 cps
Start Time: 7.30 min
End Time: 8.42 min



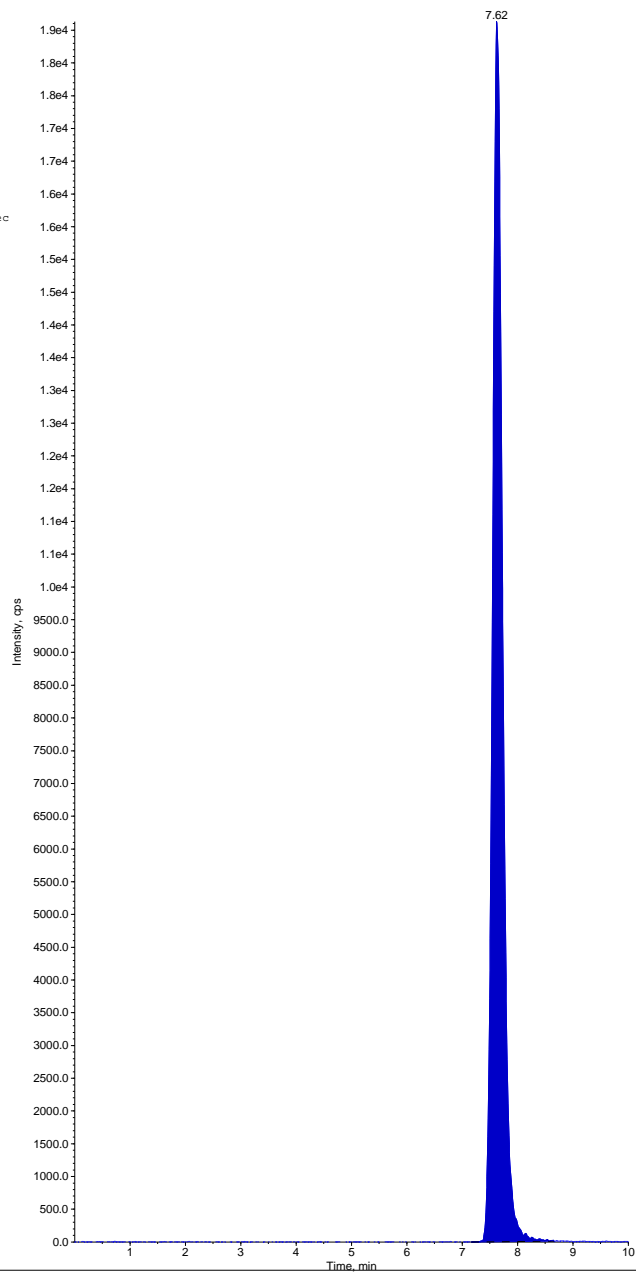
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'cal 0.5ppb' Sample ID: '' File: '191205cal.wiff'
Peak Name: 'Perchlorate-O18(3)' Mass(es): '107.089.0 amu'
Comment: '1911060.5ppb' Annotation: ''

Sample Index: 11
Sample Type: Standard
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/05/2019
Acq. Time: 12:48:14 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.62 min
Area: 237000 counts
Height: 18600 cps
Start Time: 7.16 min
End Time: 8.66 min



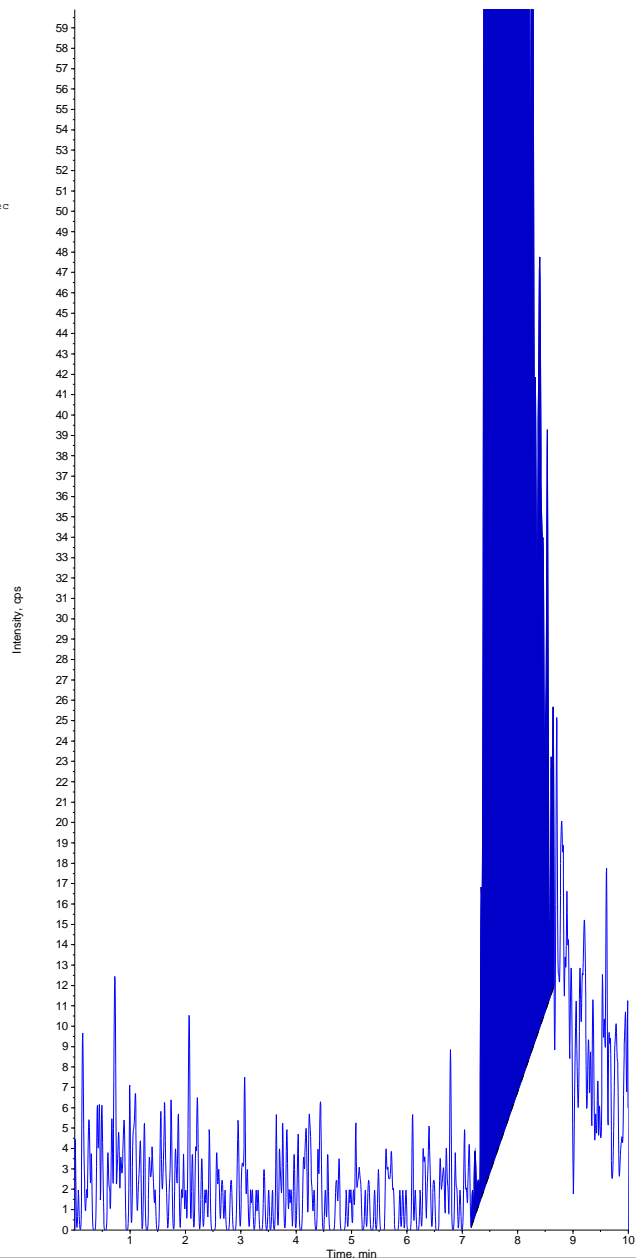
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "cal 0.5ppb" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate-O18(3)" Mass(es): "107.089.0 amu"
Comment: "1911060.5ppb" Annotation: ""

Sample Index: 11
Sample Type: Standard
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/05/2019
Acq. Time: 12:48:14 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
,Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.62 min
Area: 237000 counts
Height: 18600 cps
Start Time: 7.16 min
End Time: 8.66 min



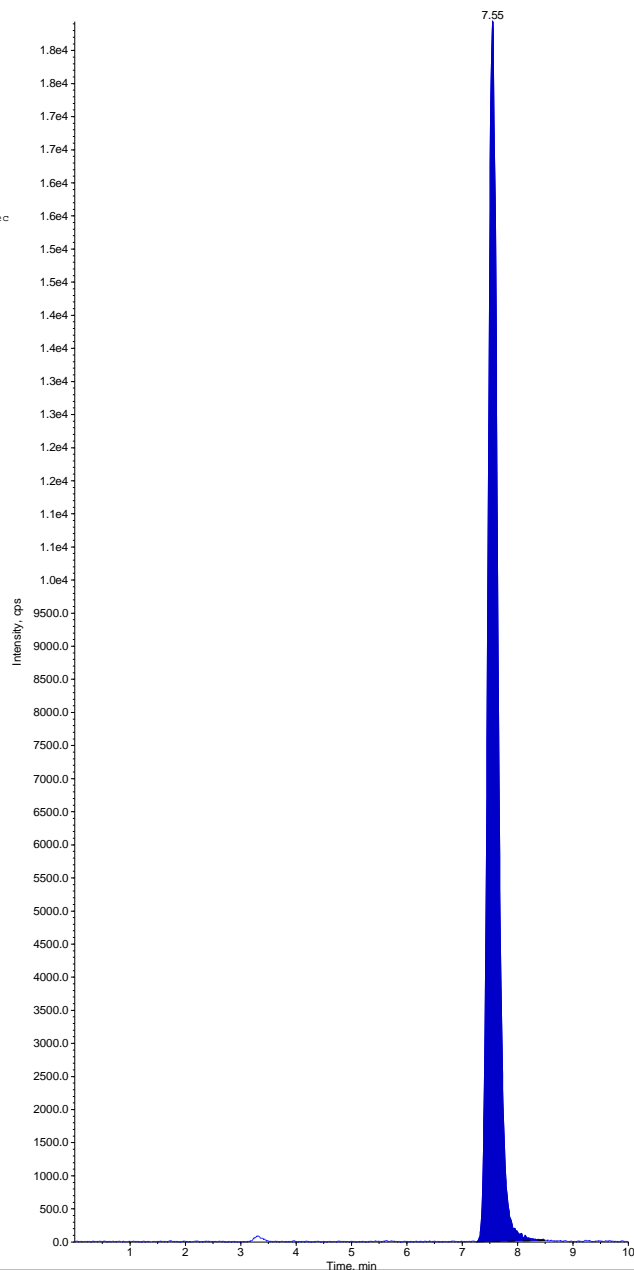
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'cal 1.0ppb' Sample ID: '' File: '191205cal.wiff'
Peak Name: 'Perchlorate' Mass(es): '99.0/83.0 amu'

Comment: '1910291.00ppb' Annotation: ''
Sample Index: 12
Sample Type: Standard
Concentration: 1.00 ug/L
Calculated Conc: 0.950 ug/L
Acq. Date: 12/05/2019
Acq. Time: 01:00:12 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 22
Noise Threshold: 20.00 cps
Area Threshold: 100.00 cps
,Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.55 min
Area: 227000 counts
Height: 18400 cps
Start Time: 7.26 min
End Time: 8.49 min

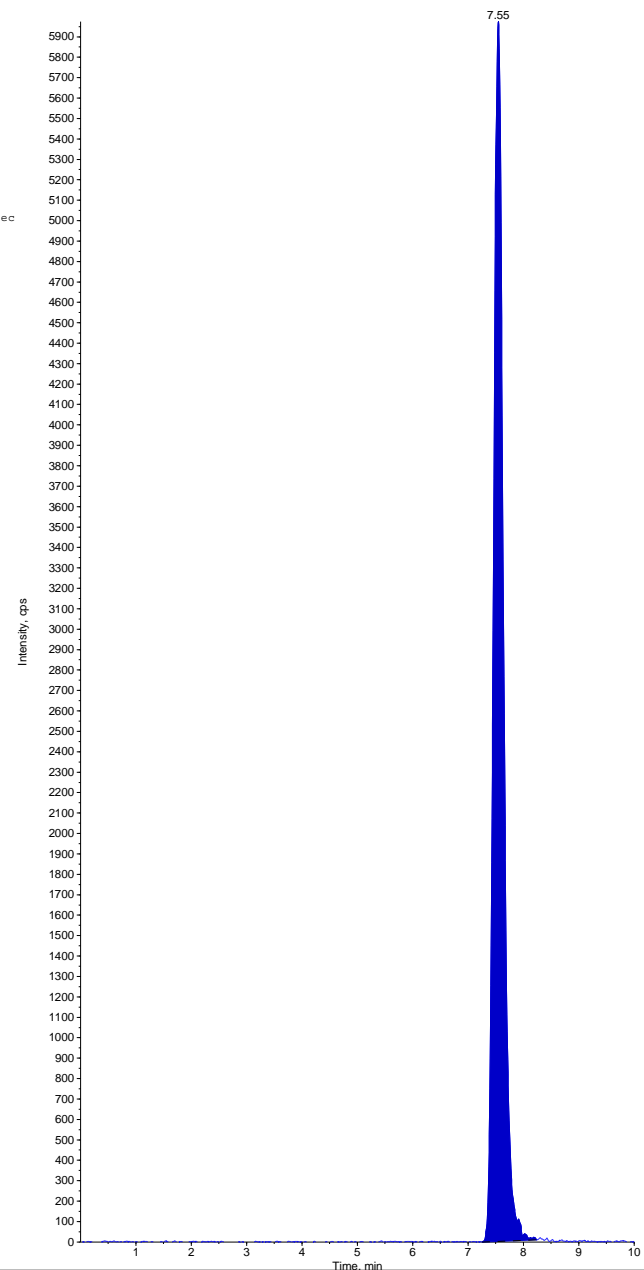


Sample Name: 'cal 1.0ppb' Sample ID: '' File: '191205cal.wiff'
Peak Name: 'Perchlorate-37' Mass(es): '101.0/85.0 amu'

Comment: '1910291.00ppb' Annotation: ''
Sample Index: 12
Sample Type: Standard
Concentration: 1.00 ug/L
Calculated Conc: 0.960 ug/L
Acq. Date: 12/05/2019
Acq. Time: 01:00:12 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 22
Noise Threshold: 20.00 cps
Area Threshold: 100.00 cps
,Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.55 min
Area: 74300 counts
Height: 5970 cps
Start Time: 7.25 min
End Time: 8.24 min



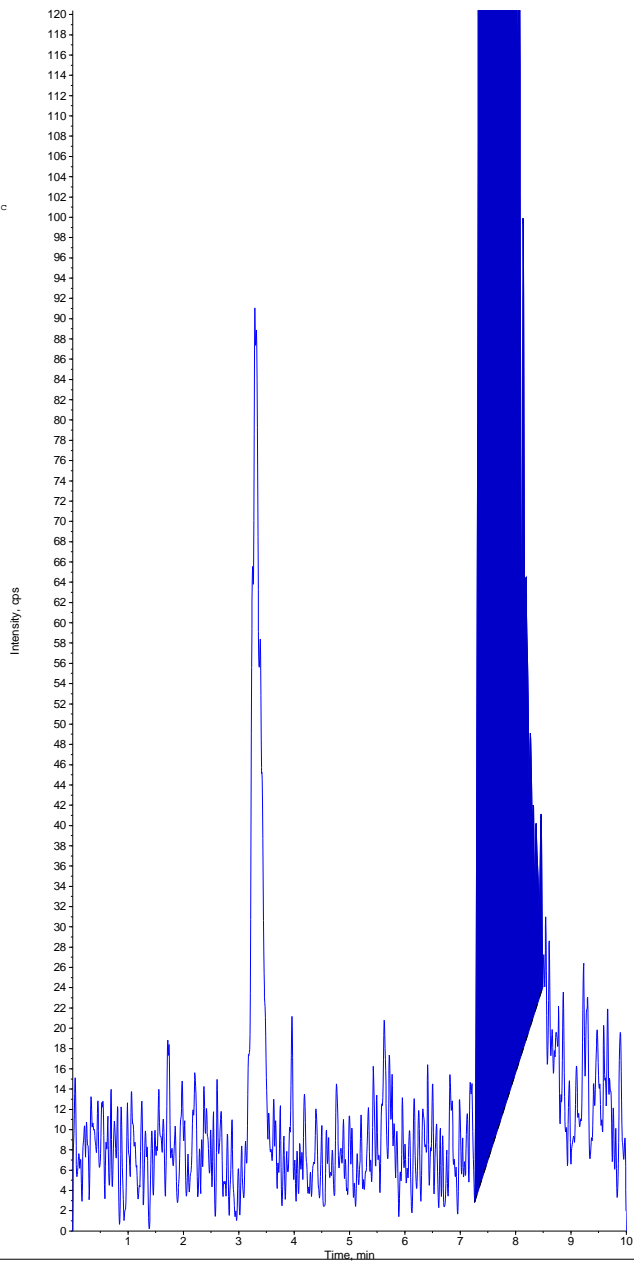
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "cal 1.0ppb" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "1910291.00ppb" Annotation: ""

Sample Index: 12
Sample Type: Standard
Concentration: 1.00 ug/L
Calculated Conc: 0.950 ug/L
Acq. Date: 12/05/2019
Acq. Time: 01:00:12 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 22
Noise Threshold: 20.00 cps
Area Threshold: 100.00 cps
,Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.55 min
Area: 227000 counts
Height: 18400 cps
Start Time: 7.26 min
End Time: 8.49 min

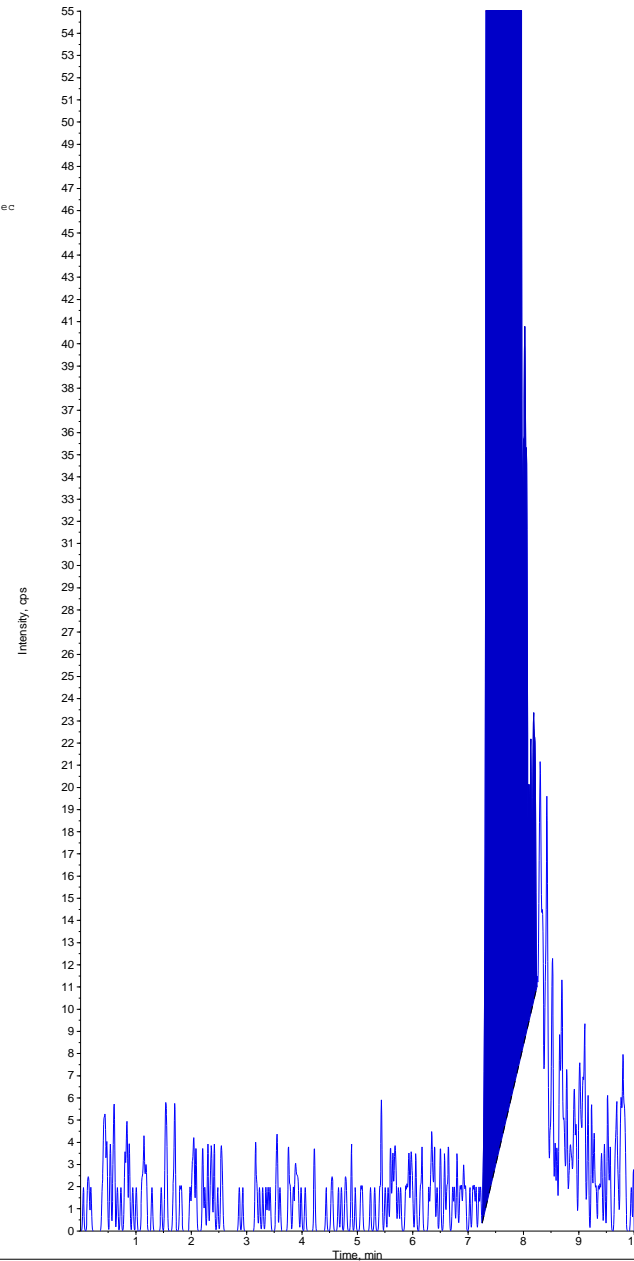


Sample Name: "cal 1.0ppb" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "1910291.00ppb" Annotation: ""

Sample Index: 12
Sample Type: Standard
Concentration: 1.00 ug/L
Calculated Conc: 0.960 ug/L
Acq. Date: 12/05/2019
Acq. Time: 01:00:12 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 22
Noise Threshold: 20.00 cps
Area Threshold: 100.00 cps
,Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.55 min
Area: 74300 counts
Height: 5970 cps
Start Time: 7.25 min
End Time: 8.24 min



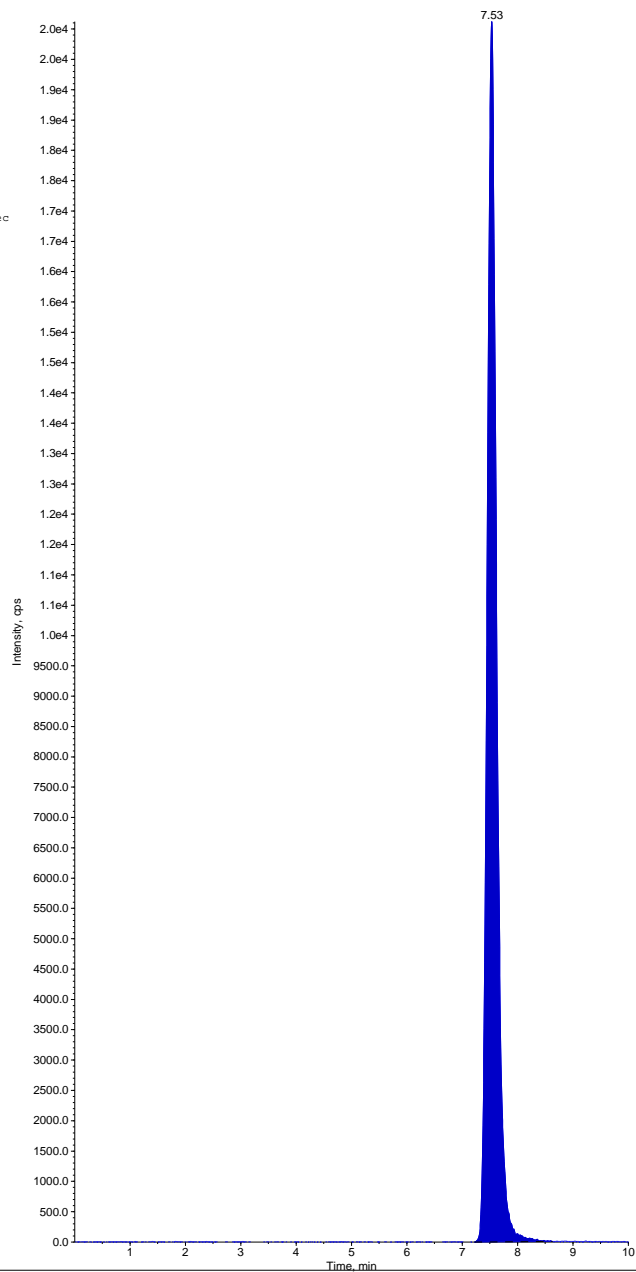
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'cal 1.0ppb' Sample ID: '' File: '191205cal.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: '1910291.00ppb' Annotation: ''

Sample Index: 12
Sample Type: Standard
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/05/2019
Acq. Time: 01:00:12 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.53 min
Area: 241000 counts
Height: 20100 cps
Start Time: 7.22 min
End Time: 8.63 min



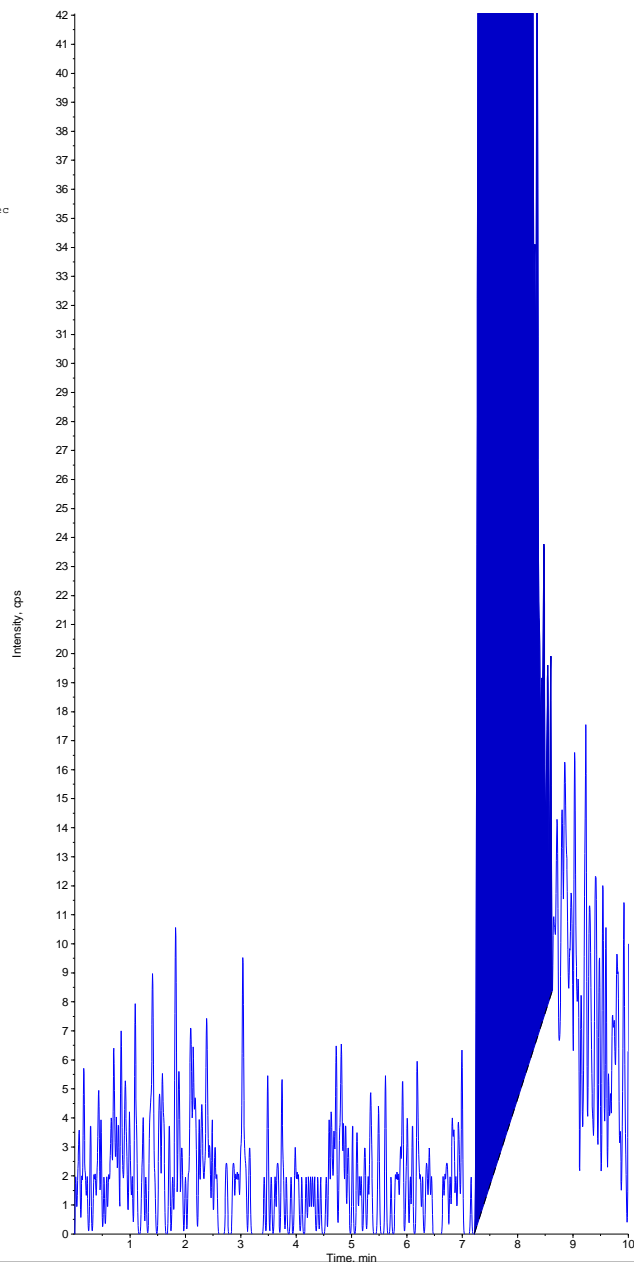
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'cal 1.0ppb' Sample ID: '' File: '191205cal.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: '1910291.00ppb' Annotation: ''

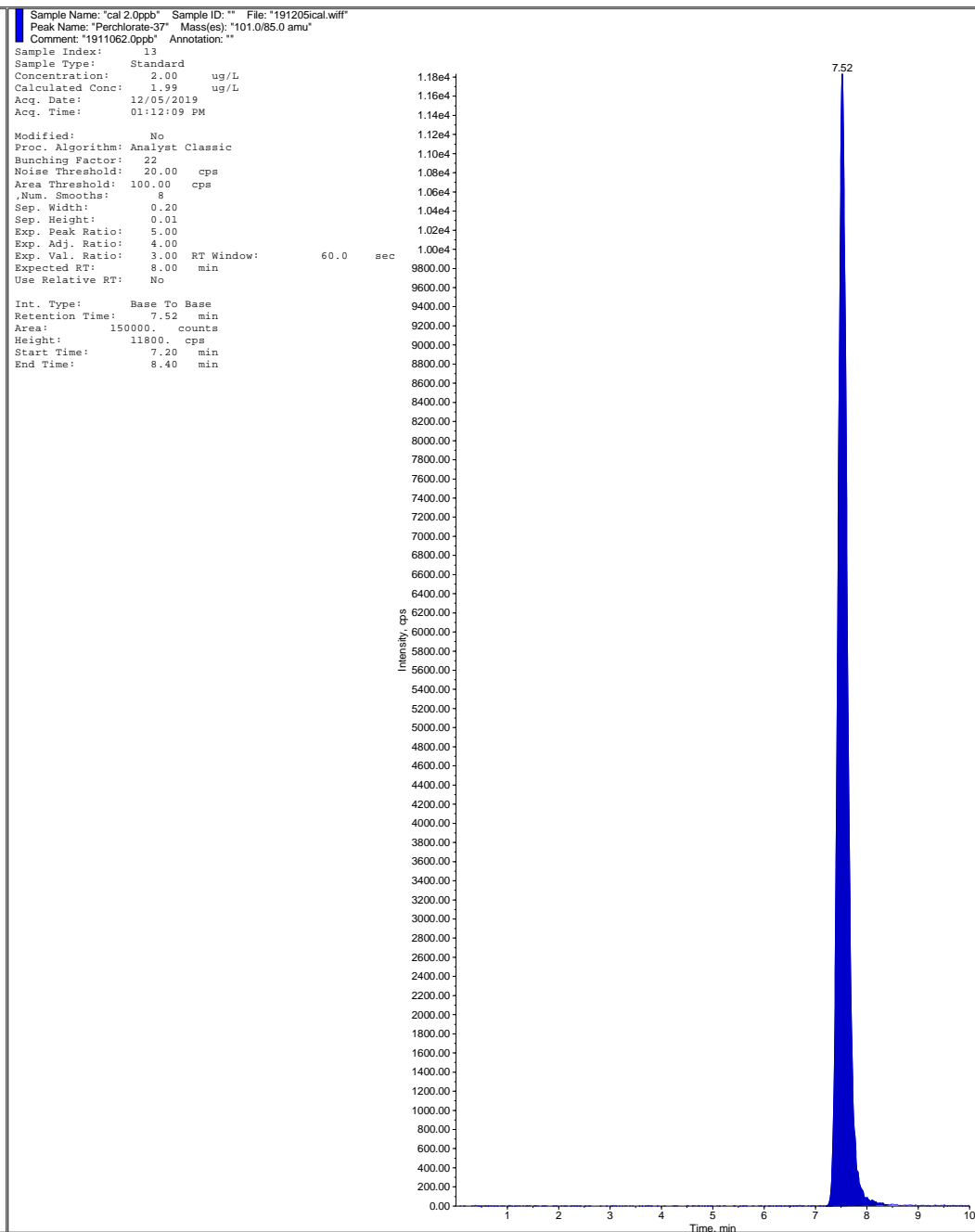
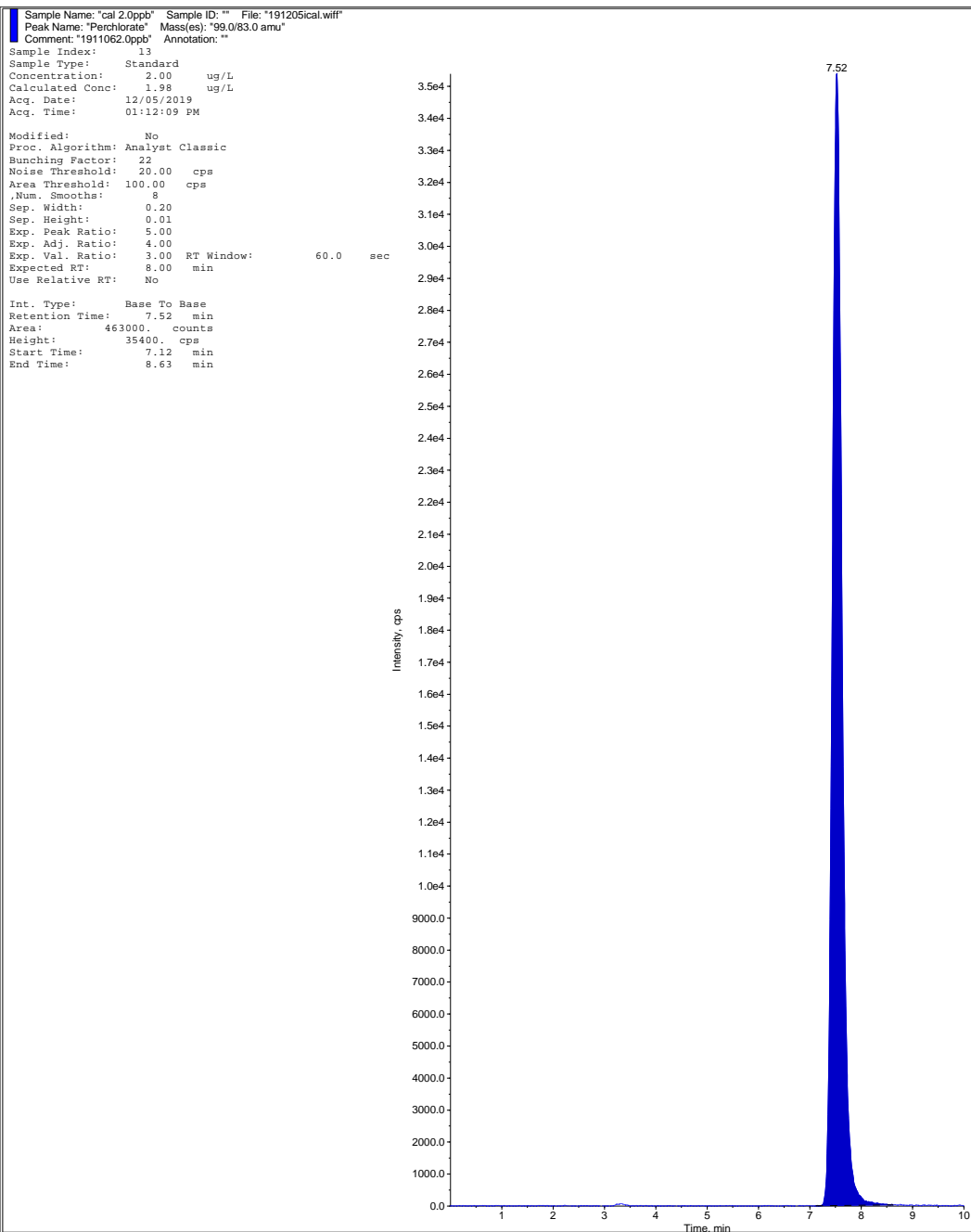
Sample Index: 12
Sample Type: Standard
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/05/2019
Acq. Time: 01:00:12 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
,Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.53 min
Area: 241000 counts
Height: 20100 cps
Start Time: 7.22 min
End Time: 8.63 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator



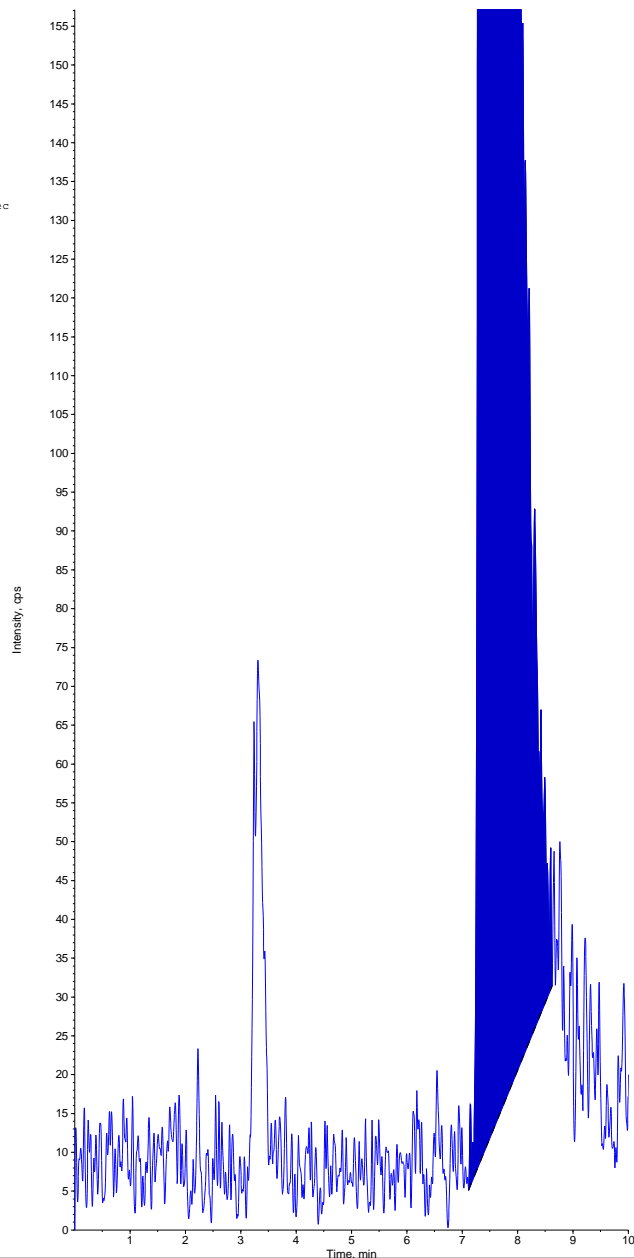
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "cal 2.0ppb" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "1911062.0ppb" Annotation: ""

Sample Index: 13
Sample Type: Standard
Concentration: 2.00 ug/L
Calculated Conc: 1.98 ug/L
Acq. Date: 12/05/2019
Acq. Time: 01:12:09 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 22
Noise Threshold: 20.00 cps
Area Threshold: 100.00 cps
,Num. Smooths: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.52 min
Area: 463000 counts
Height: 35400 cps
Start Time: 7.12 min
End Time: 8.63 min

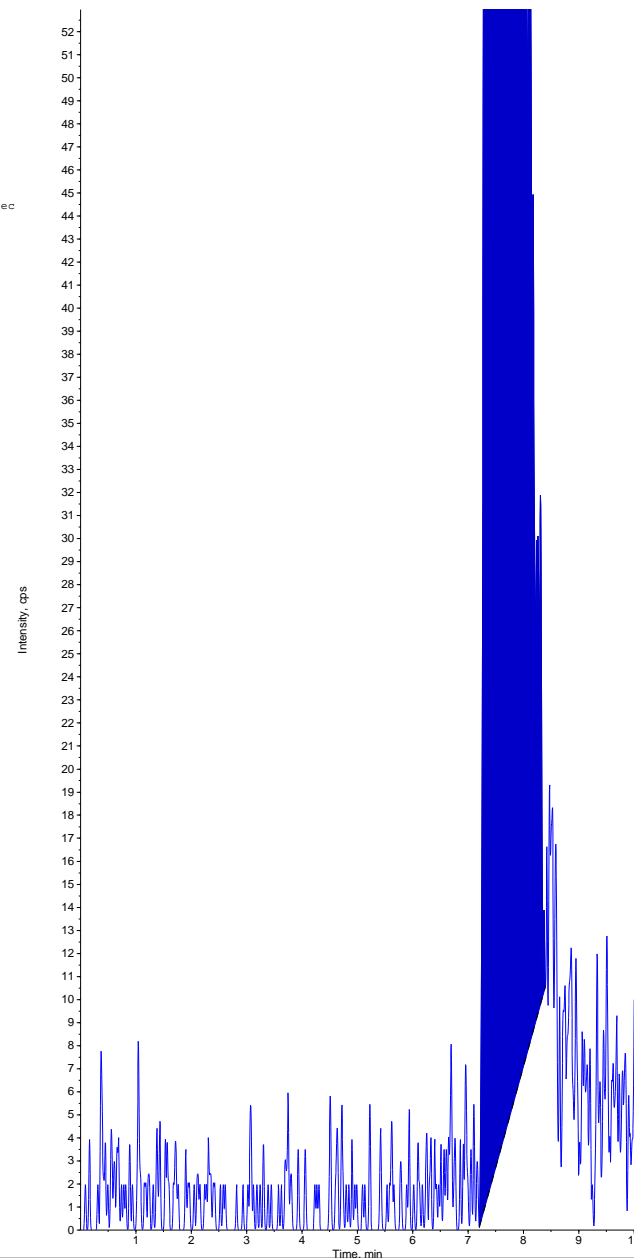


Sample Name: "cal 2.0ppb" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "1911062.0ppb" Annotation: ""

Sample Index: 13
Sample Type: Standard
Concentration: 2.00 ug/L
Calculated Conc: 1.99 ug/L
Acq. Date: 12/05/2019
Acq. Time: 01:12:09 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 22
Noise Threshold: 20.00 cps
Area Threshold: 100.00 cps
,Num. Smooths: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.52 min
Area: 150000 counts
Height: 11800 cps
Start Time: 7.20 min
End Time: 8.40 min



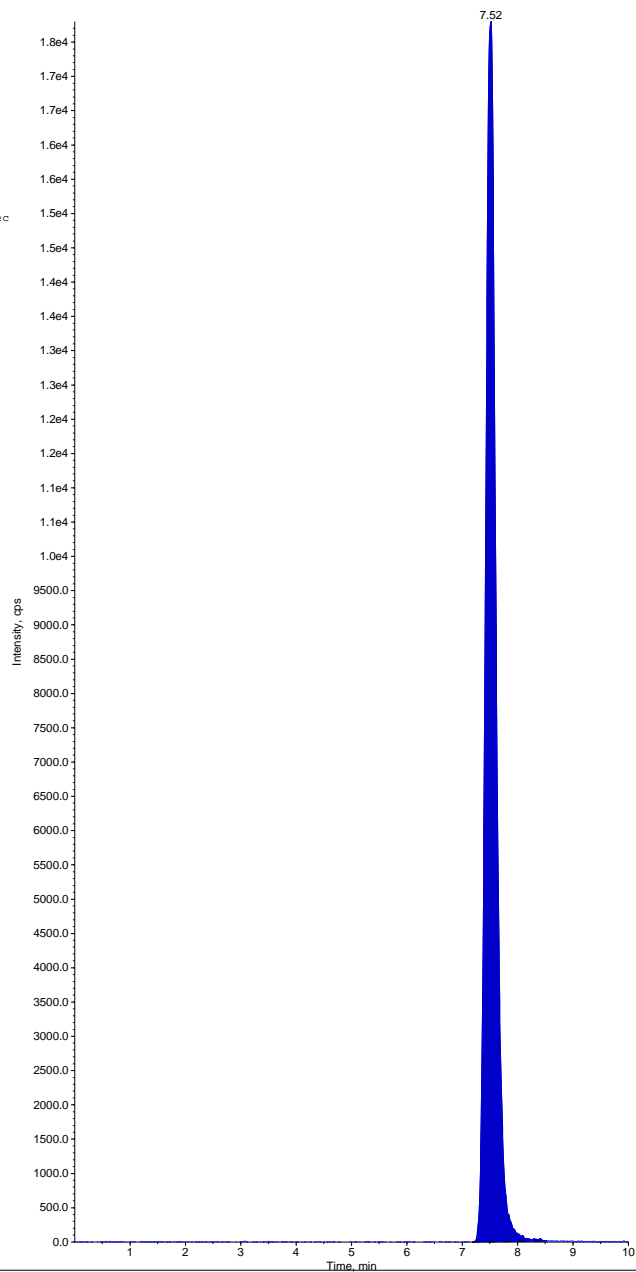
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'cal 2.0ppb' Sample ID: '' File: '191205cal.wiff'
Peak Name: 'Perchlorate-O18(3)' Mass(es): '107.089.0 amu'
Comment: '1911062.0ppb' Annotation: ''

Sample Index: 13
Sample Type: Standard
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/05/2019
Acq. Time: 01:12:09 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smooths: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.52 min
Area: 236000 counts
Height: 17800 cps
Start Time: 7.18 min
End Time: 8.53 min



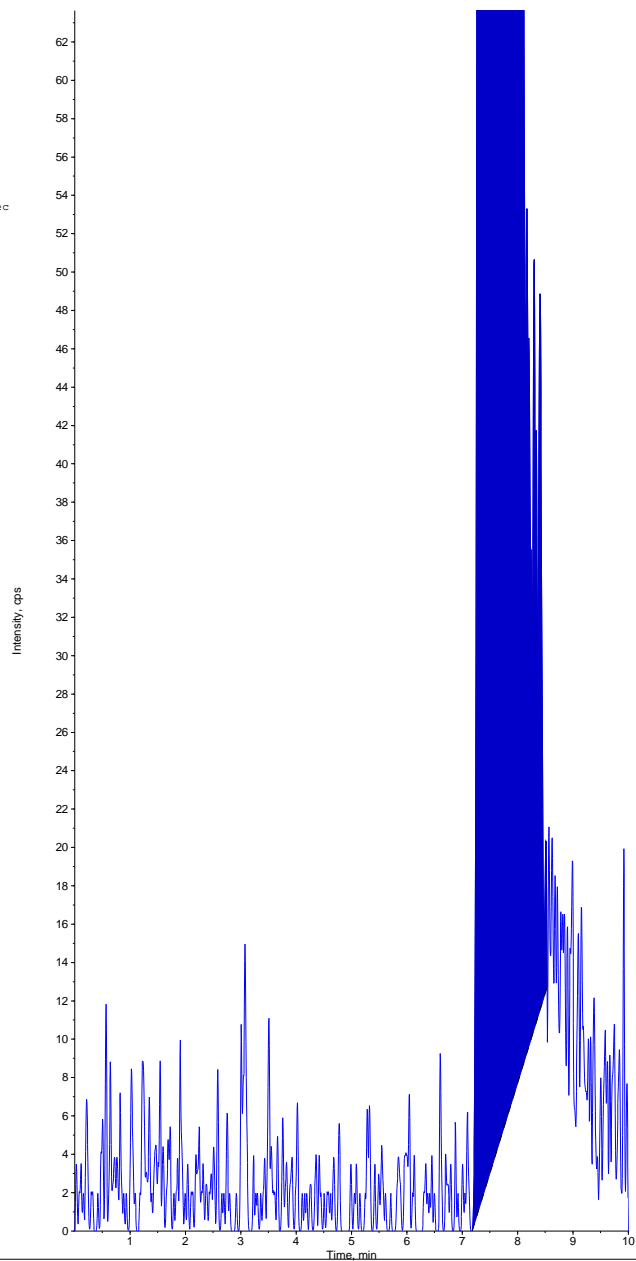
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'cal 2.0ppb' Sample ID: '' File: '191205cal.wiff'
Peak Name: 'Perchlorate-O18(3)' Mass(es): '107.089.0 amu'
Comment: '1911062.0ppb' Annotation: ''

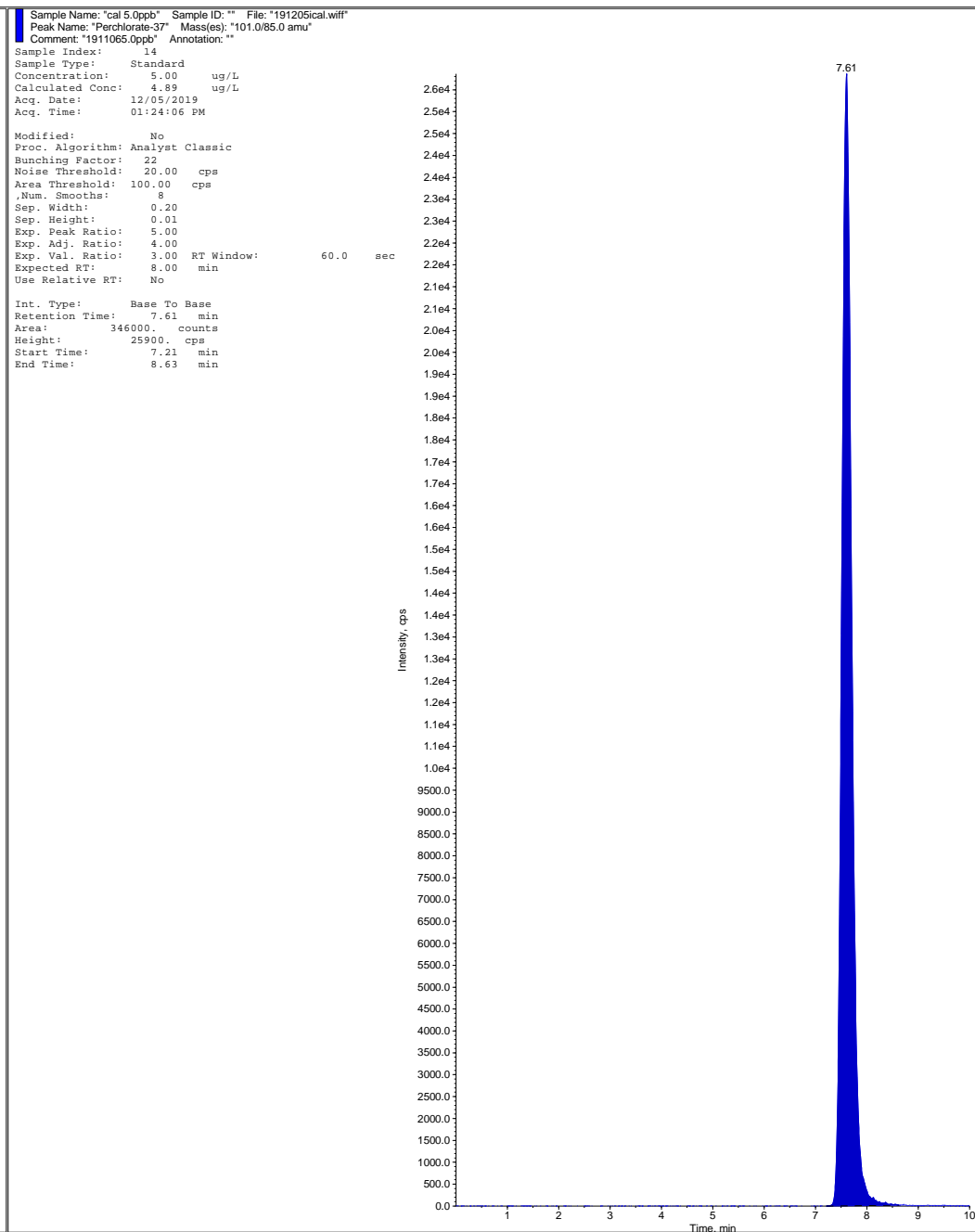
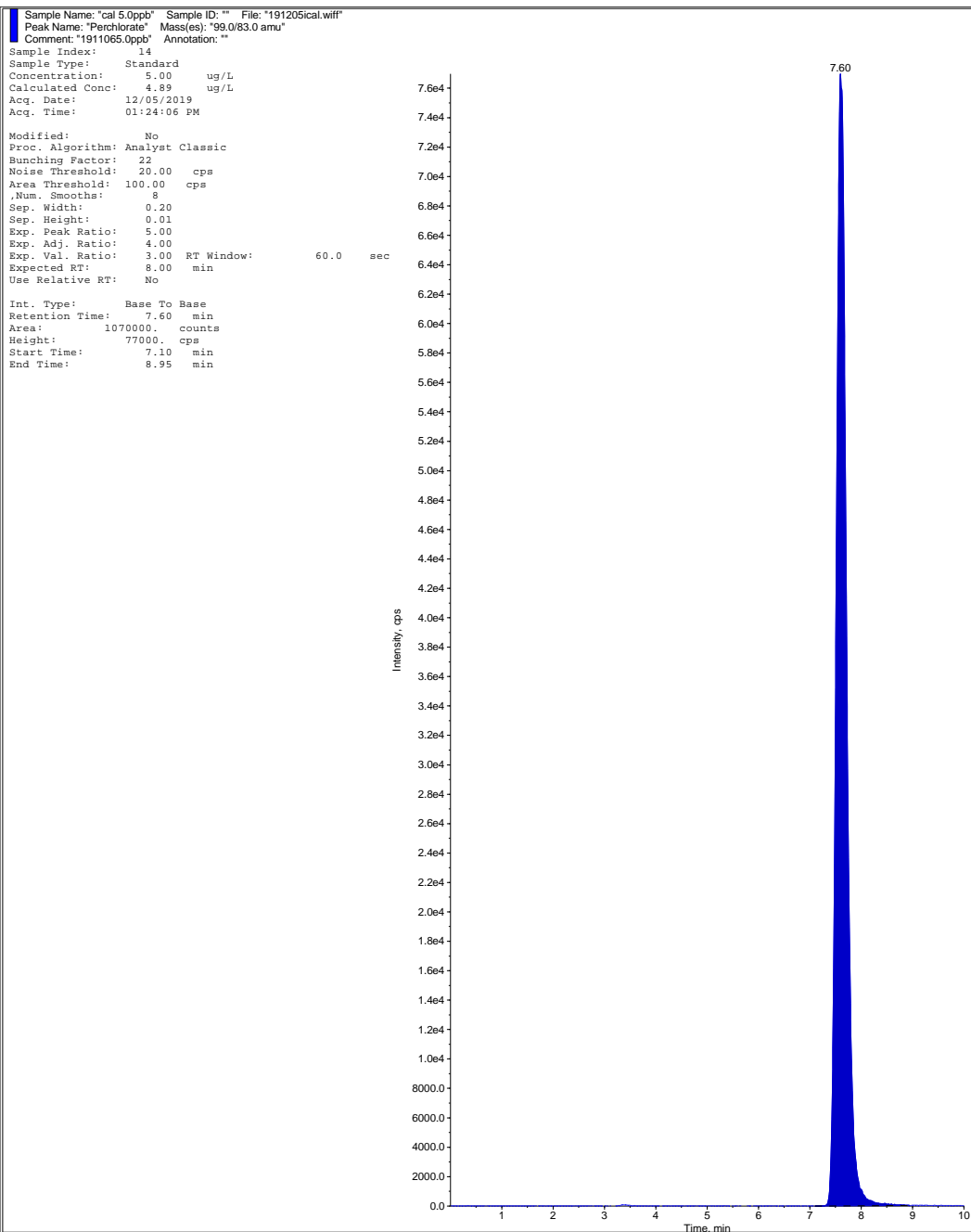
Sample Index: 13
Sample Type: Standard
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/05/2019
Acq. Time: 01:12:09 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
,Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.52 min
Area: 236000 counts
Height: 17800 cps
Start Time: 7.18 min
End Time: 8.53 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator



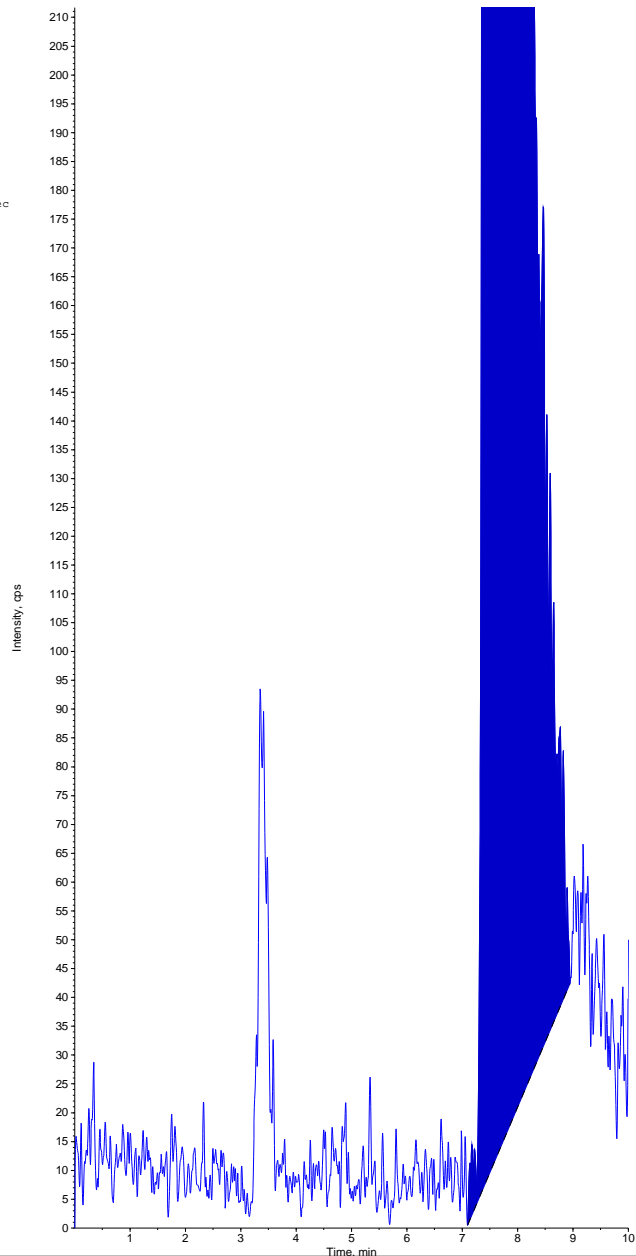
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "cal 5.0ppb" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "1911065.0ppb" Annotation: ""

Sample Index: 14
Sample Type: Standard
Concentration: 5.00 ug/L
Calculated Conc: 4.89 ug/L
Acq. Date: 12/05/2019
Acq. Time: 01:24:06 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 22
Noise Threshold: 20.00 cps
Area Threshold: 100.00 cps
,Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.60 min
Area: 1070000. counts
Height: 77000. cps
Start Time: 7.10 min
End Time: 8.95 min

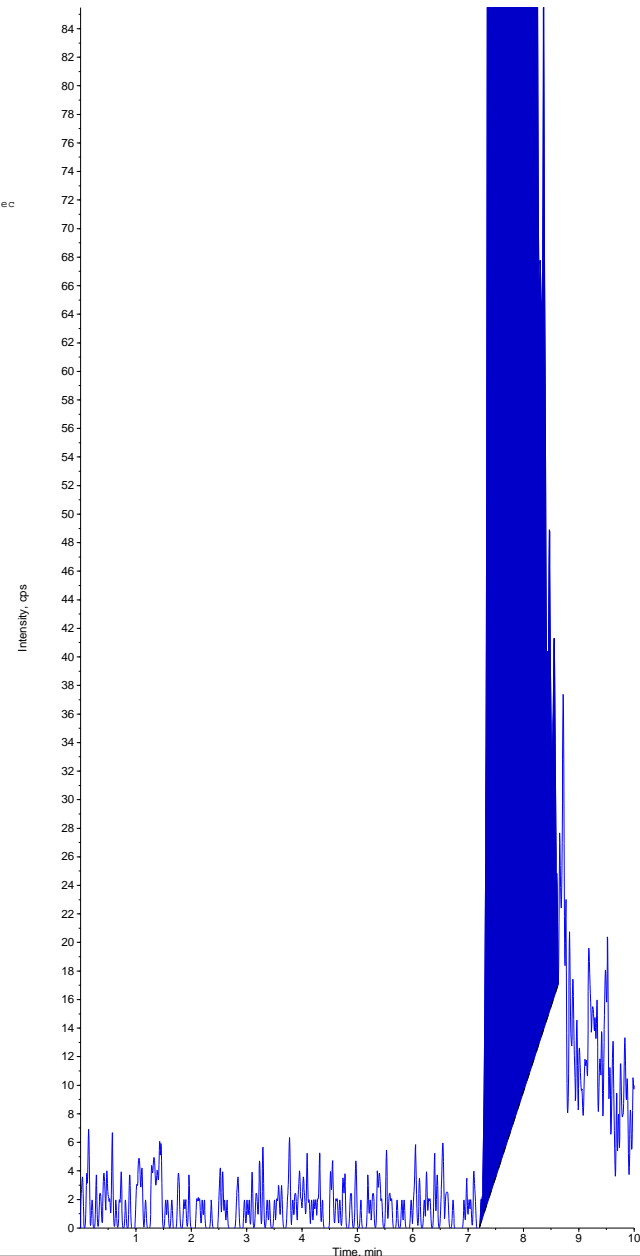


Sample Name: "cal 5.0ppb" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "1911065.0ppb" Annotation: ""

Sample Index: 14
Sample Type: Standard
Concentration: 5.00 ug/L
Calculated Conc: 4.89 ug/L
Acq. Date: 12/05/2019
Acq. Time: 01:24:06 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 22
Noise Threshold: 20.00 cps
Area Threshold: 100.00 cps
,Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.61 min
Area: 346000. counts
Height: 25900. cps
Start Time: 7.21 min
End Time: 8.63 min



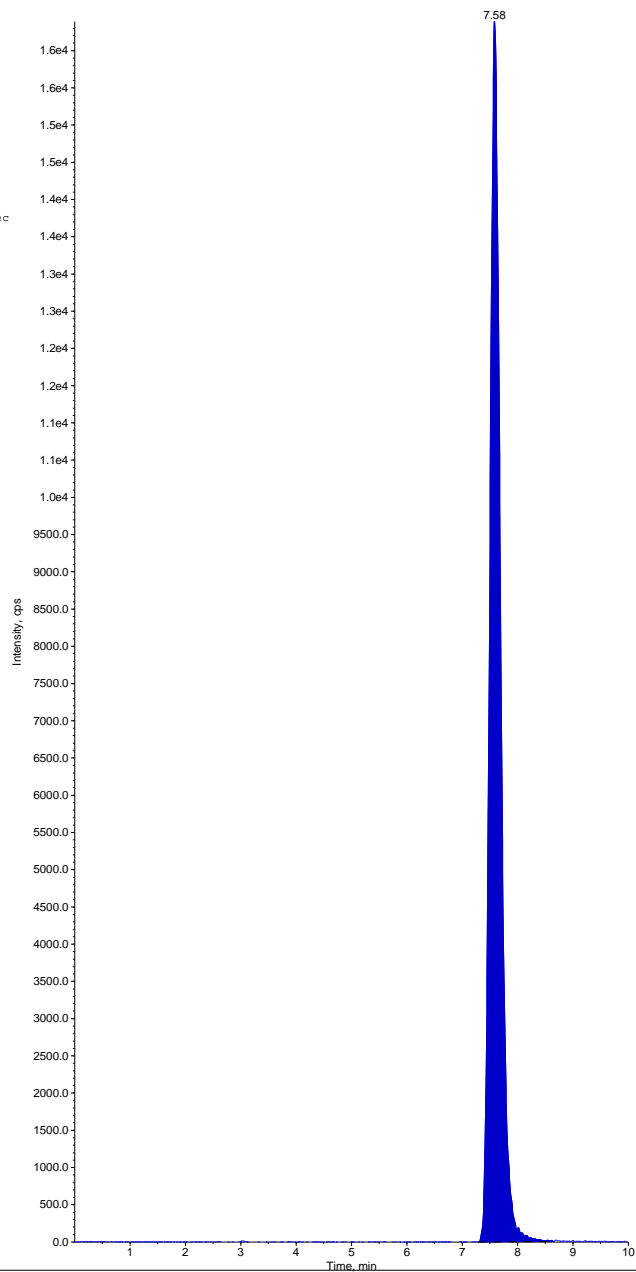
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'cal 5.0ppb' Sample ID: '' File: '191205cal.wiff'
Peak Name: 'Perchlorate-O18(3)' Mass(es): '107.089.0 amu'
Comment: '1911065.0ppb' Annotation: ''

Sample Index: 14
Sample Type: Standard
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/05/2019
Acq. Time: 01:24:06 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.58 min
Area: 220000 counts
Height: 16400 cps
Start Time: 7.29 min
End Time: 8.65 min



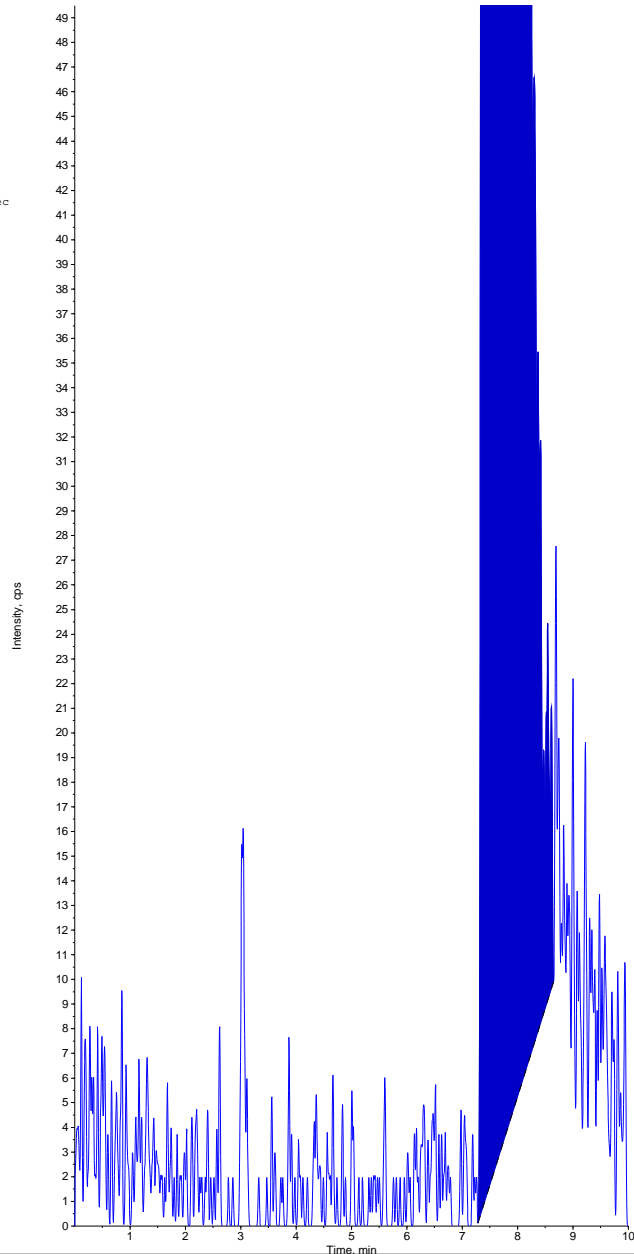
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'cal 5.0ppb' Sample ID: '' File: '191205cal.wiff'
Peak Name: 'Perchlorate-O18(3)' Mass(es): '107.0/89.0 amu'
Comment: '1911065.0ppb' Annotation: ''

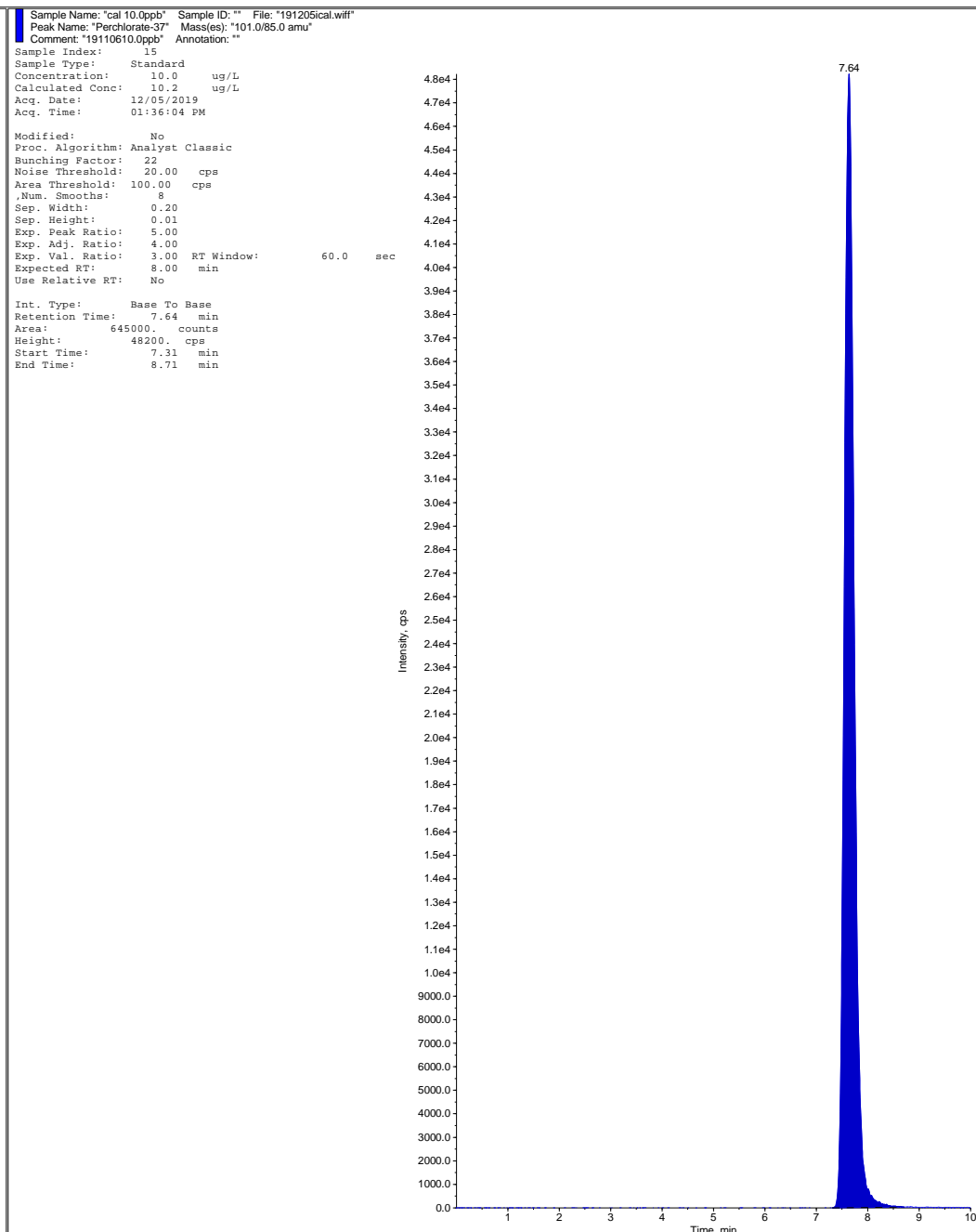
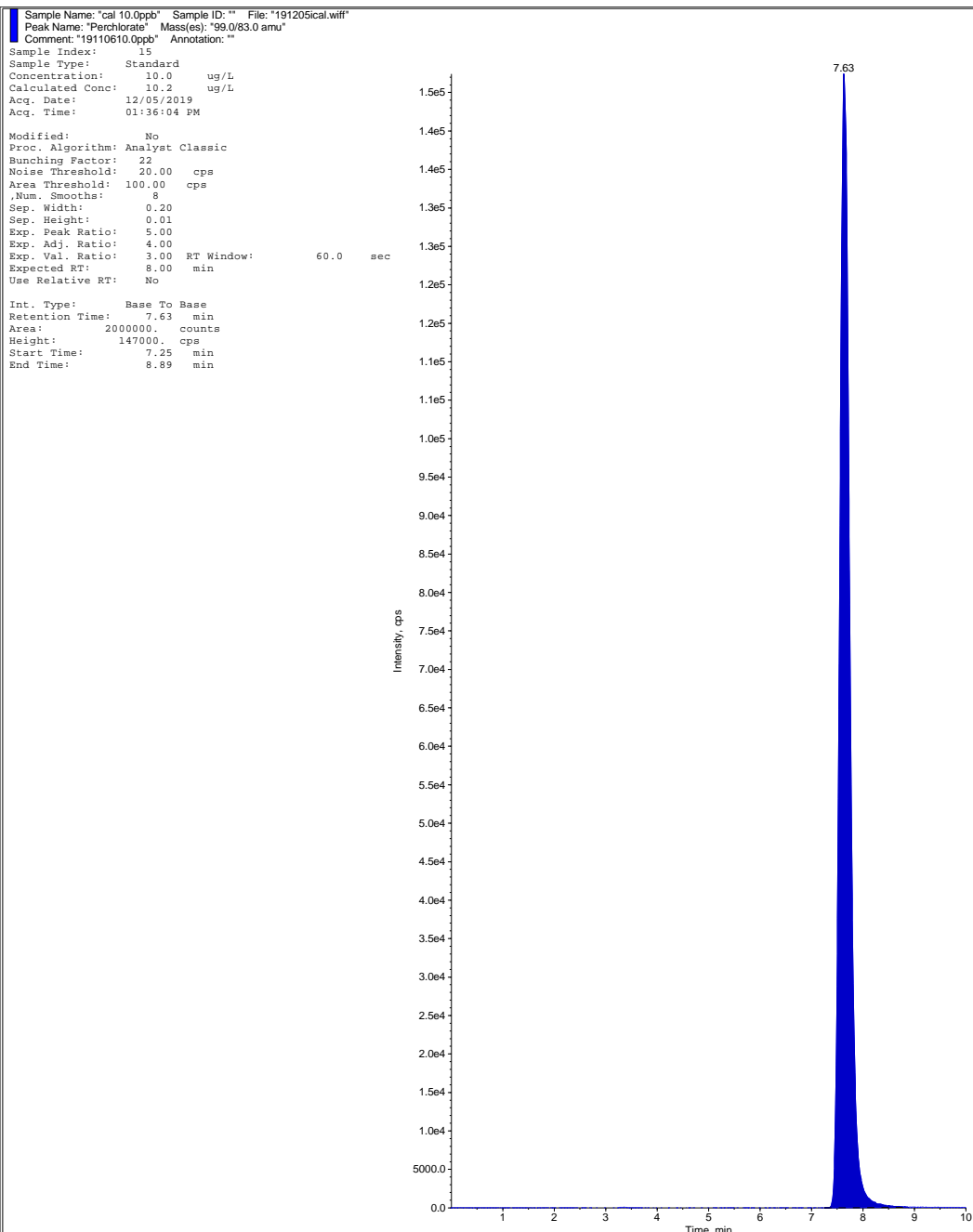
Sample Index: 14
Sample Type: Standard
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/05/2019
Acq. Time: 01:24:06 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
,Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

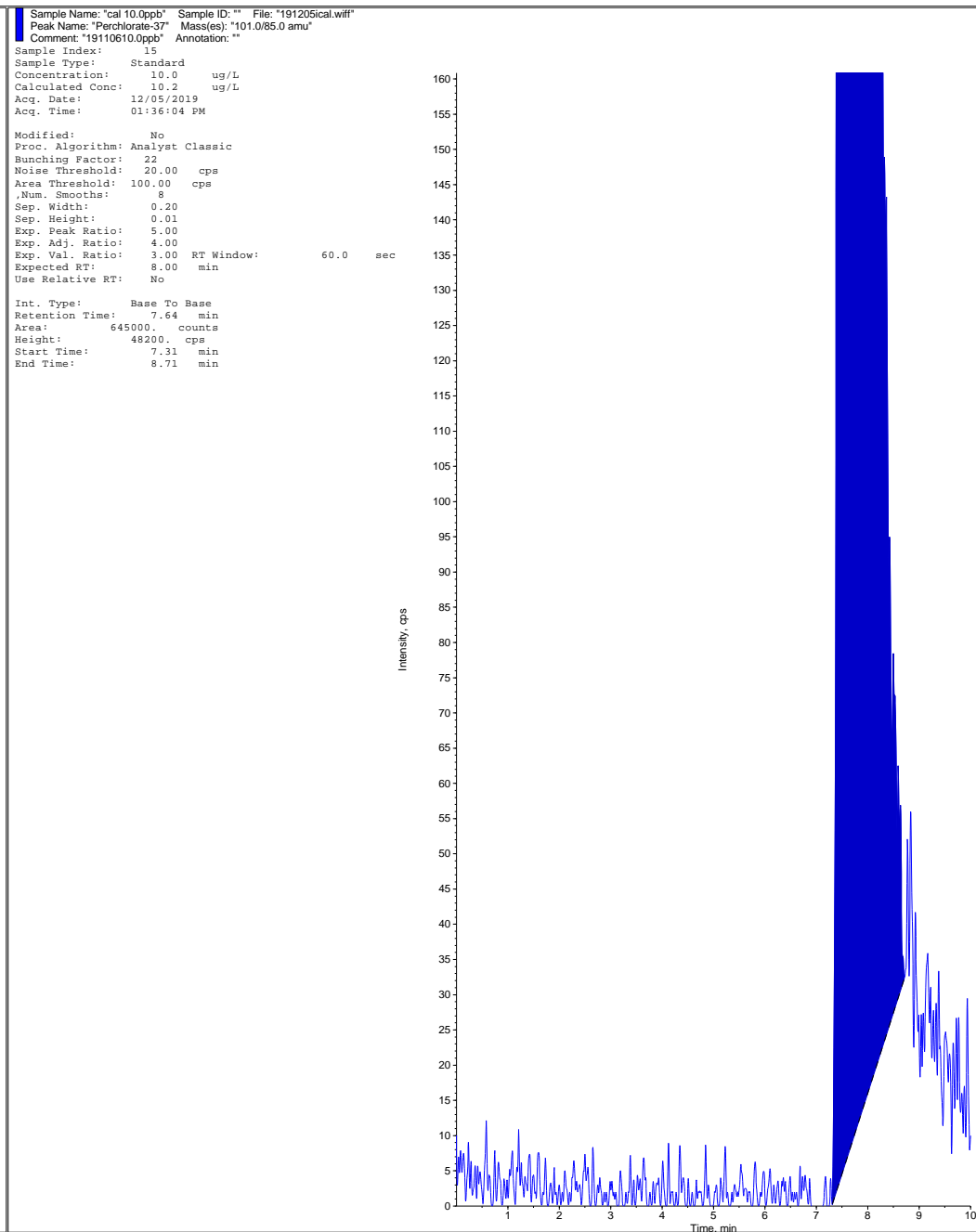
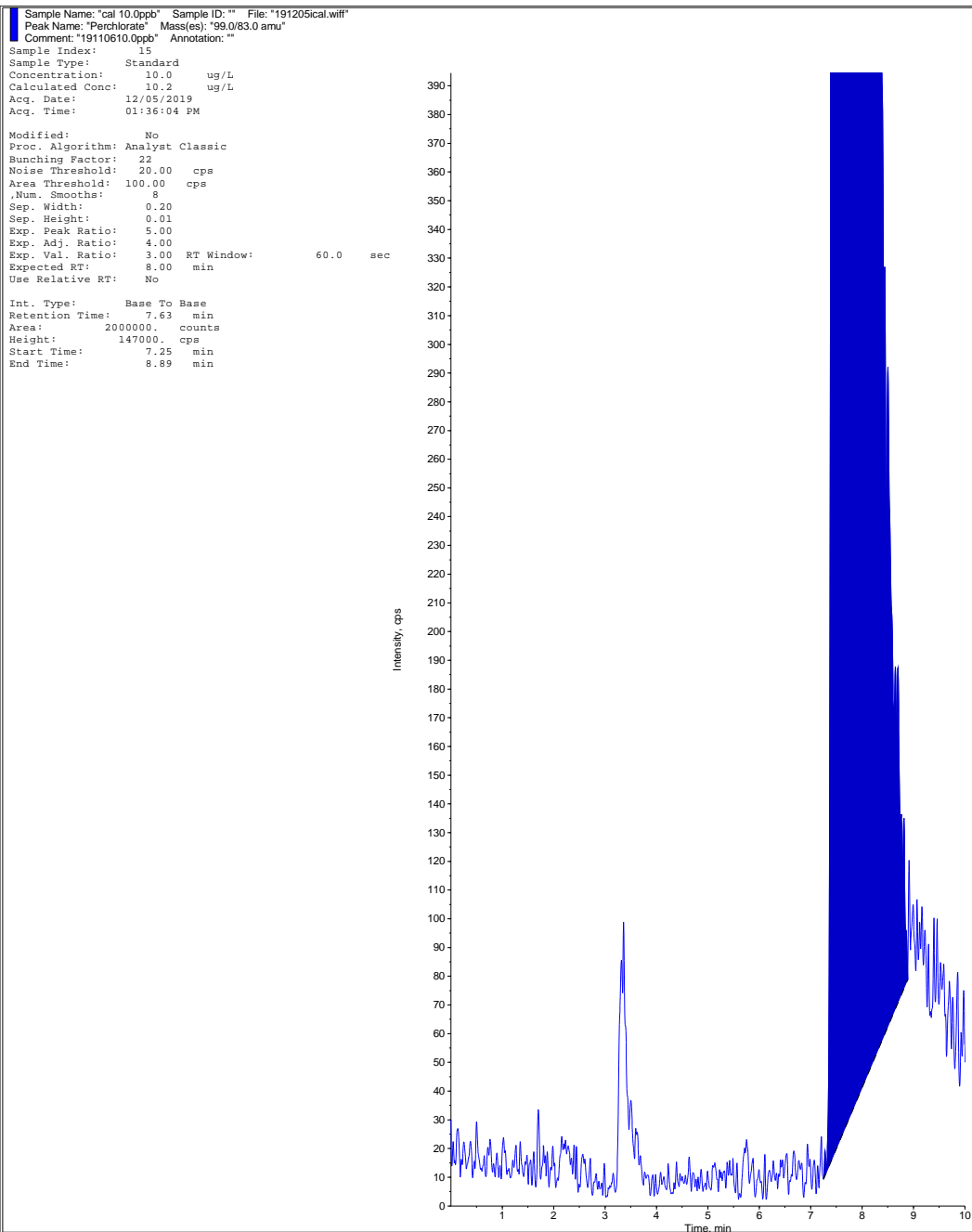
Int. Type: Base To Base
Retention Time: 7.58 min
Area: 220000 counts
Height: 16400 cps
Start Time: 7.29 min
End Time: 8.65 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator



Collected by: N/A
Electronic Signature: no
Operator: Administrator



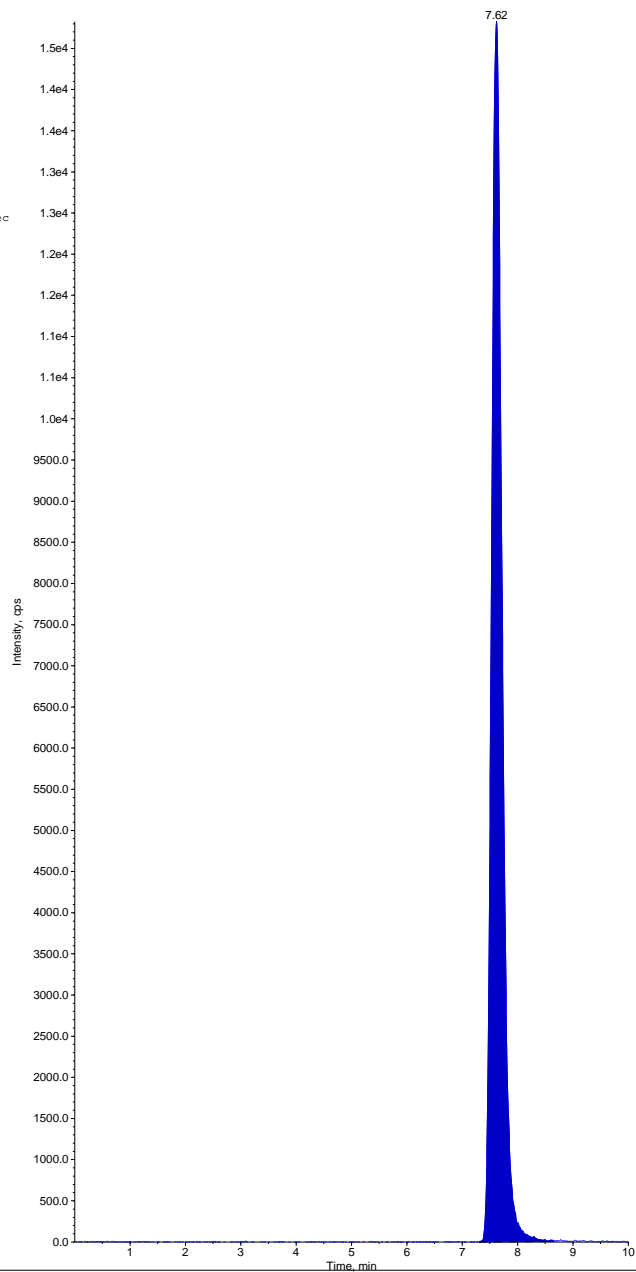
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'cal 10.0ppb' Sample ID: '' File: '191205cal.wiff'
Peak Name: 'Perchlorate-O18(O)' Mass(es): '107.089.0 amu'
Comment: '19110610.0ppb' Annotation: ''

Sample Index: 15
Sample Type: Standard
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/05/2019
Acq. Time: 01:36:04 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.62 min
Area: 198000 counts
Height: 14800 cps
Start Time: 7.30 min
End Time: 8.66 min



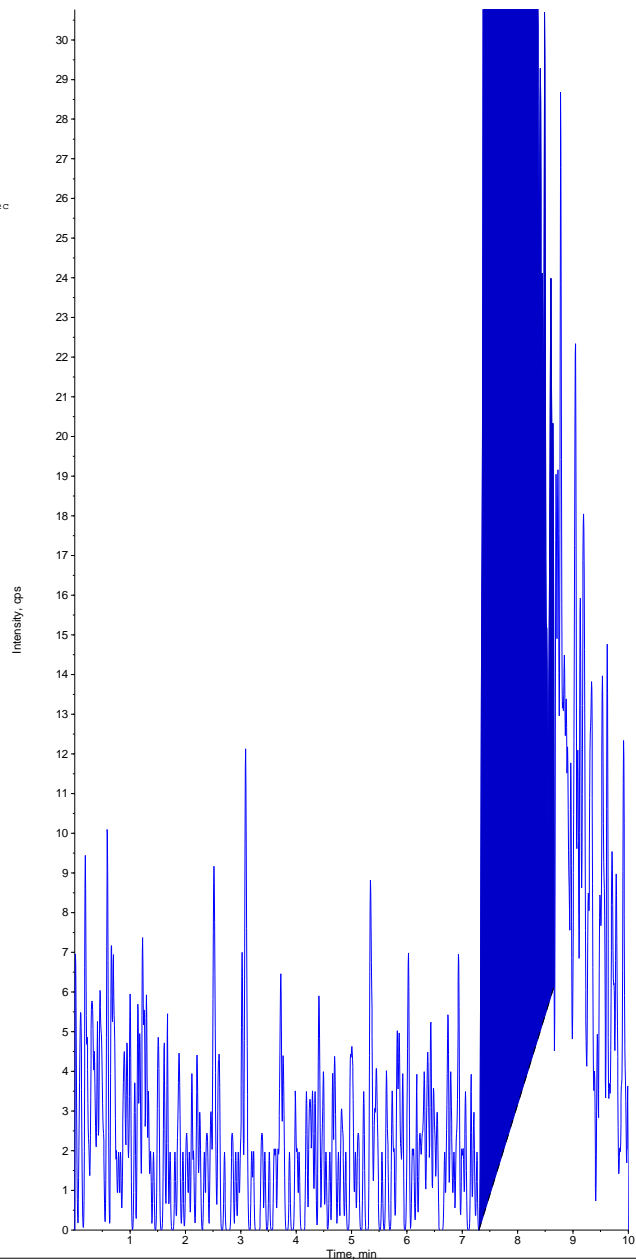
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'cal 10.0ppb' Sample ID: '' File: '191205cal.wiff'
Peak Name: 'Perchlorate-O18(C)' Mass(es): '107.089.0 amu'
Comment: '19110610.0ppb' Annotation: ''

Sample Index: 15
Sample Type: Standard
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/05/2019
Acq. Time: 01:36:04 PM

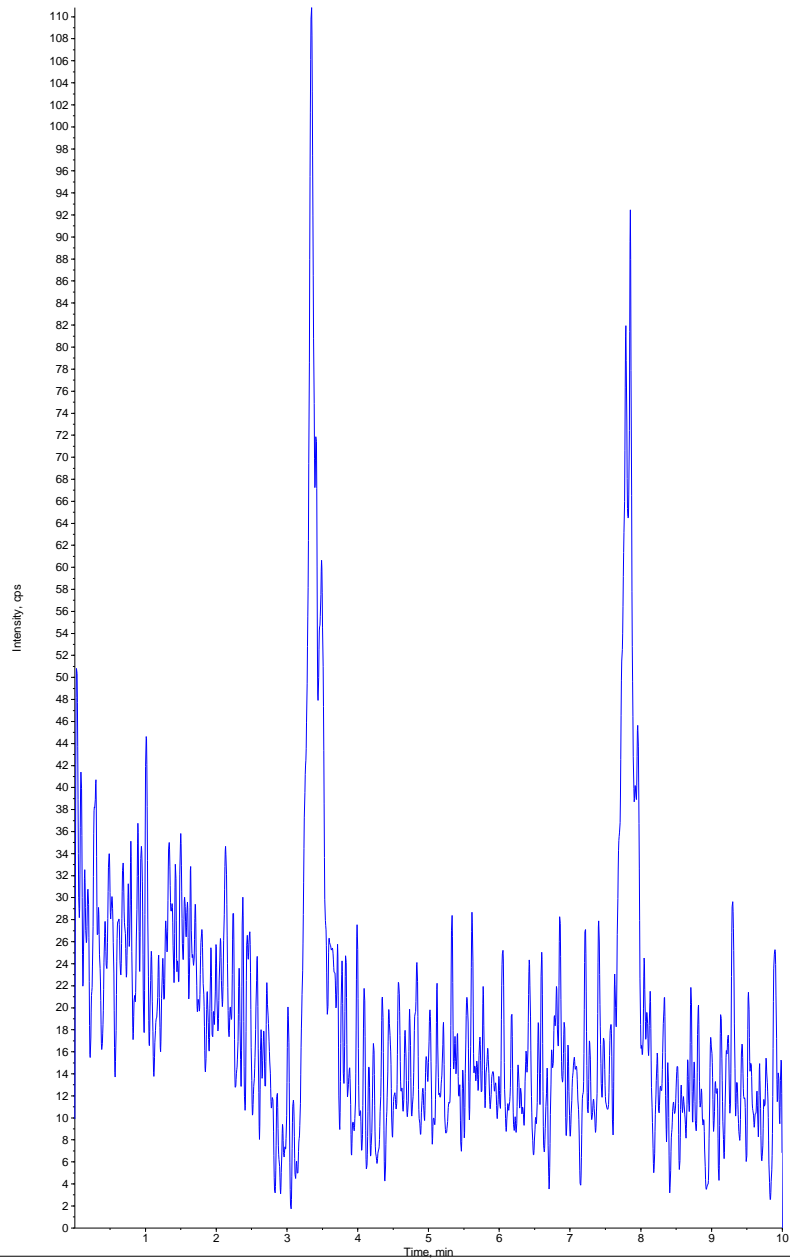
Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
,Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.62 min
Area: 198000 counts
Height: 14800 cps
Start Time: 7.30 min
End Time: 8.66 min

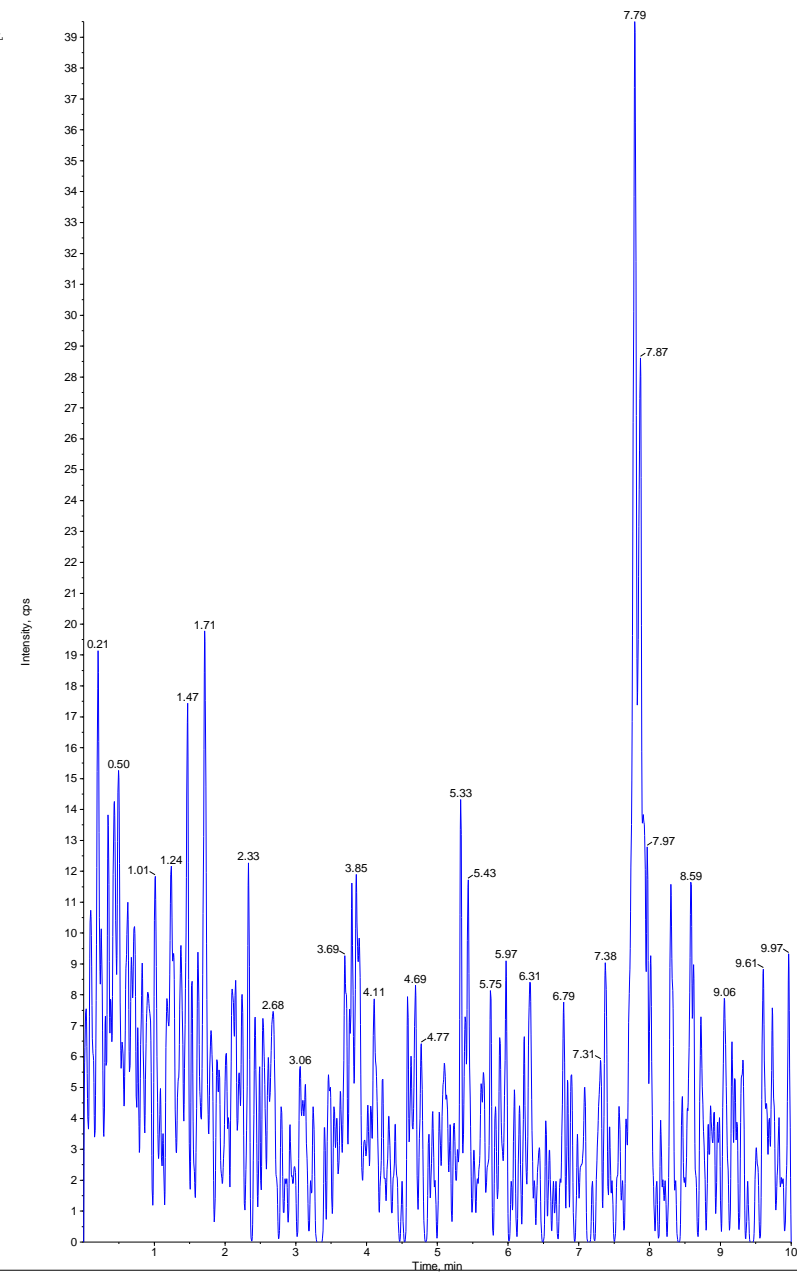


Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "blank02 is" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "IS lot#:190924isws" Annotation: ""
Sample Index: 16
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/05/2019
Acq. Time: 01:48:02 PM
Modified: No

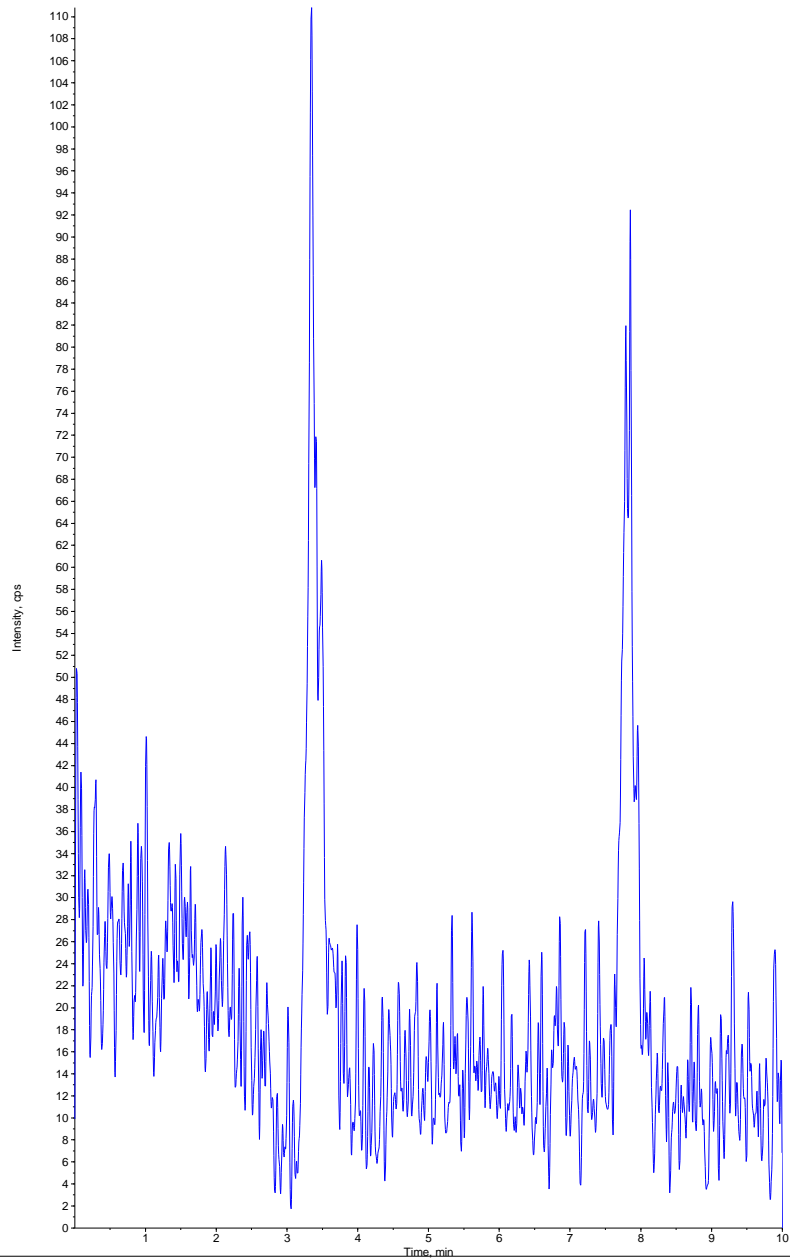


Sample Name: "blank02 is" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "IS lot#:190924isws" Annotation: ""
Sample Index: 16
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/05/2019
Acq. Time: 01:48:02 PM
Modified: No



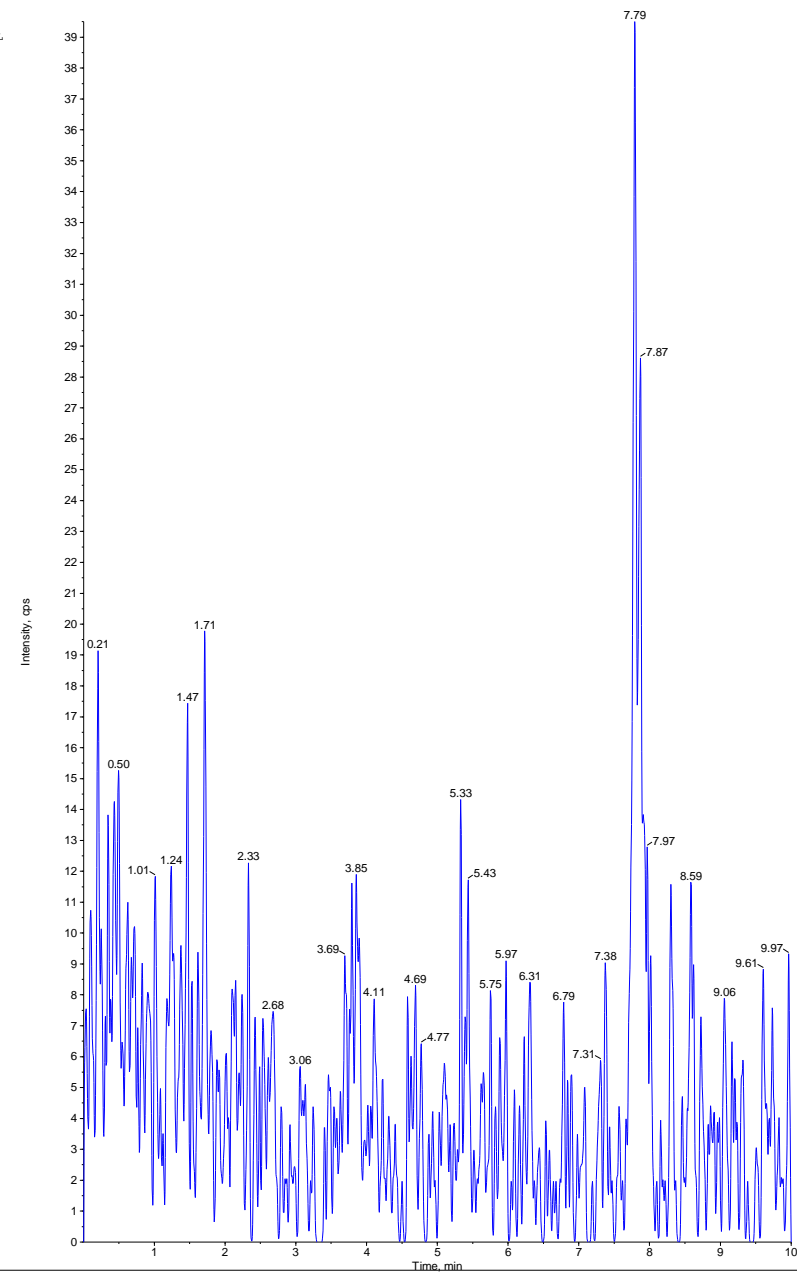
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "blank02.is" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "IS lot#:190924isws" Annotation: ""
Sample Index: 16
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/05/2019
Acq. Time: 01:48:02 PM
Modified: No



Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "blank02.is" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "IS lot#:190924isws" Annotation: ""
Sample Index: 16
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/05/2019
Acq. Time: 01:48:02 PM
Modified: No



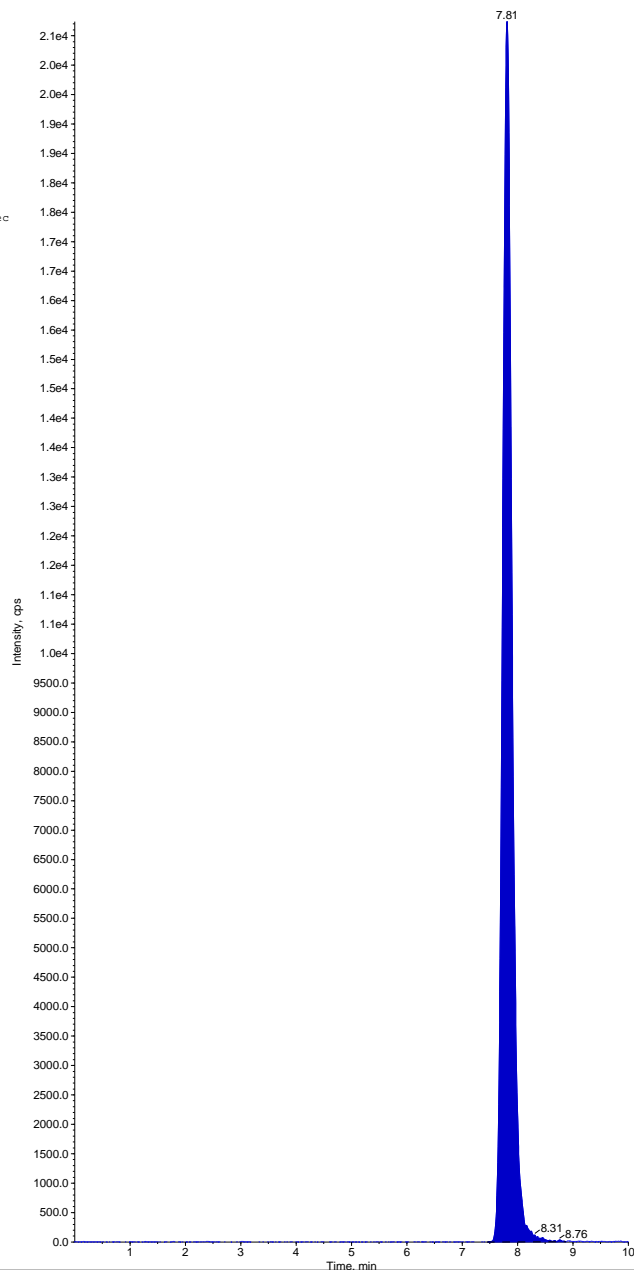
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "blank02 Is" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate-O18(O)" Mass(es): "107.089.0 amu"
Comment: "IS lot#:190824sws" Annotation: ""

Sample Index: 16
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/05/2019
Acq. Time: 01:48:02 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.81 min
Area: 249000 counts
Height: 20700 cps
Start Time: 7.45 min
End Time: 8.87 min



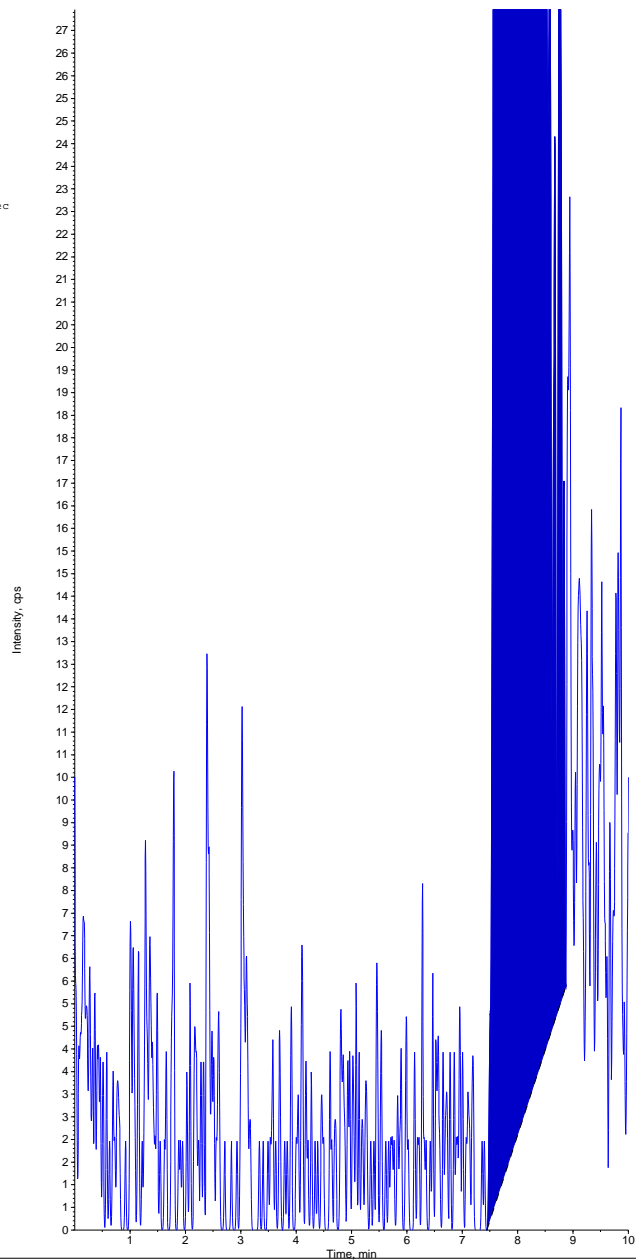
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "blank02 Is" Sample ID: "" File: "191205cal.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "IS lot#:190824sww" Annotation: ""

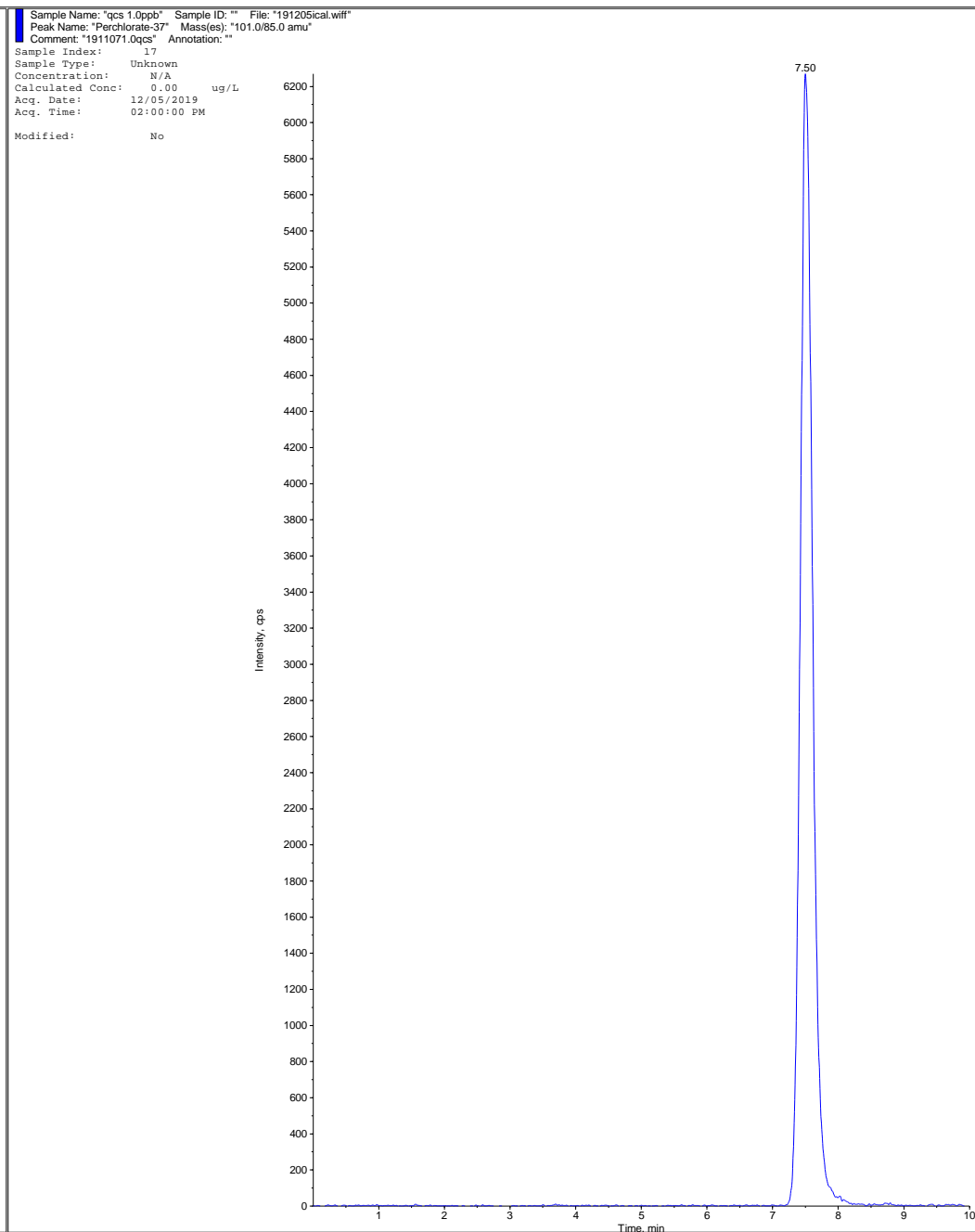
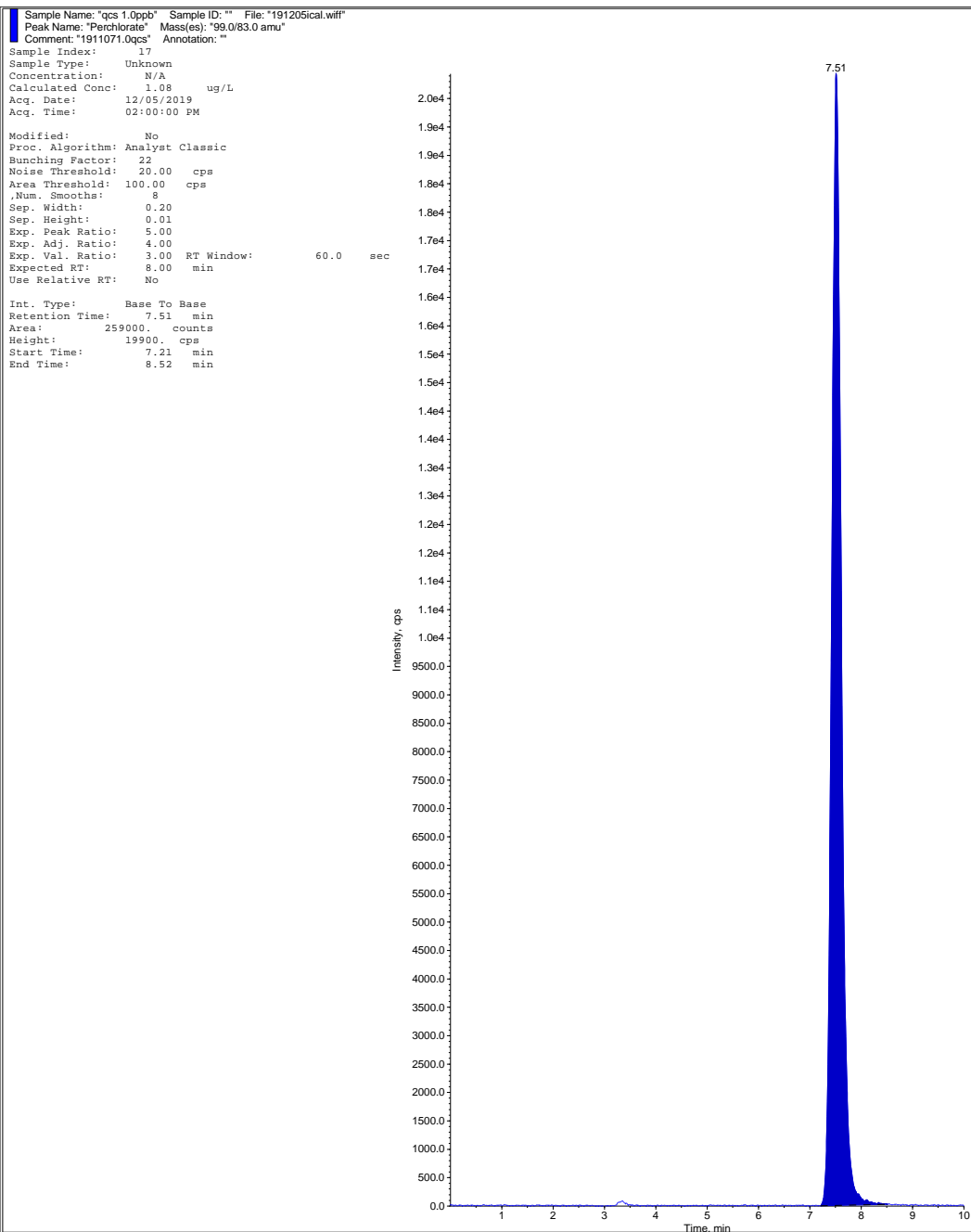
Sample Index: 16
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/05/2019
Acq. Time: 01:48:02 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

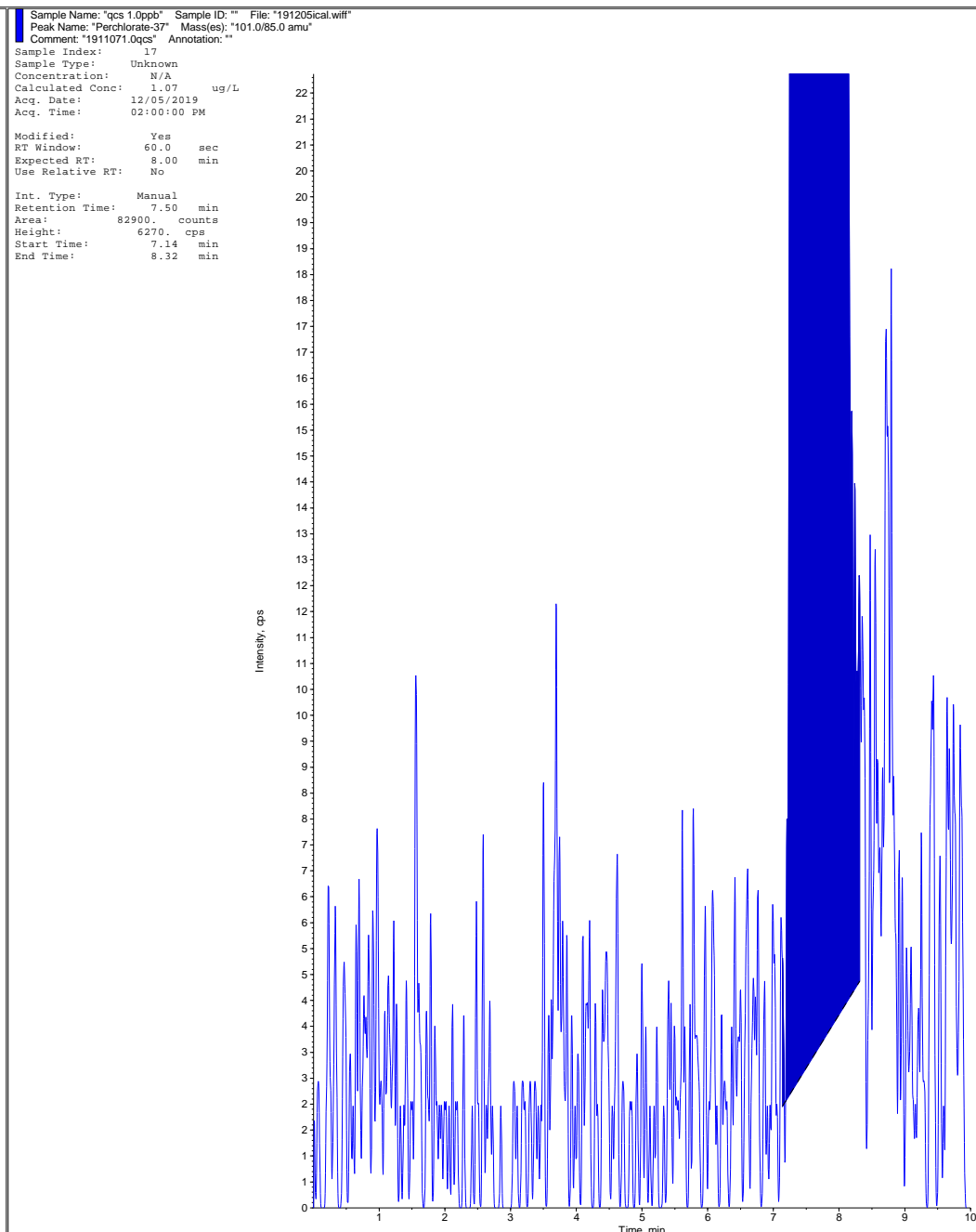
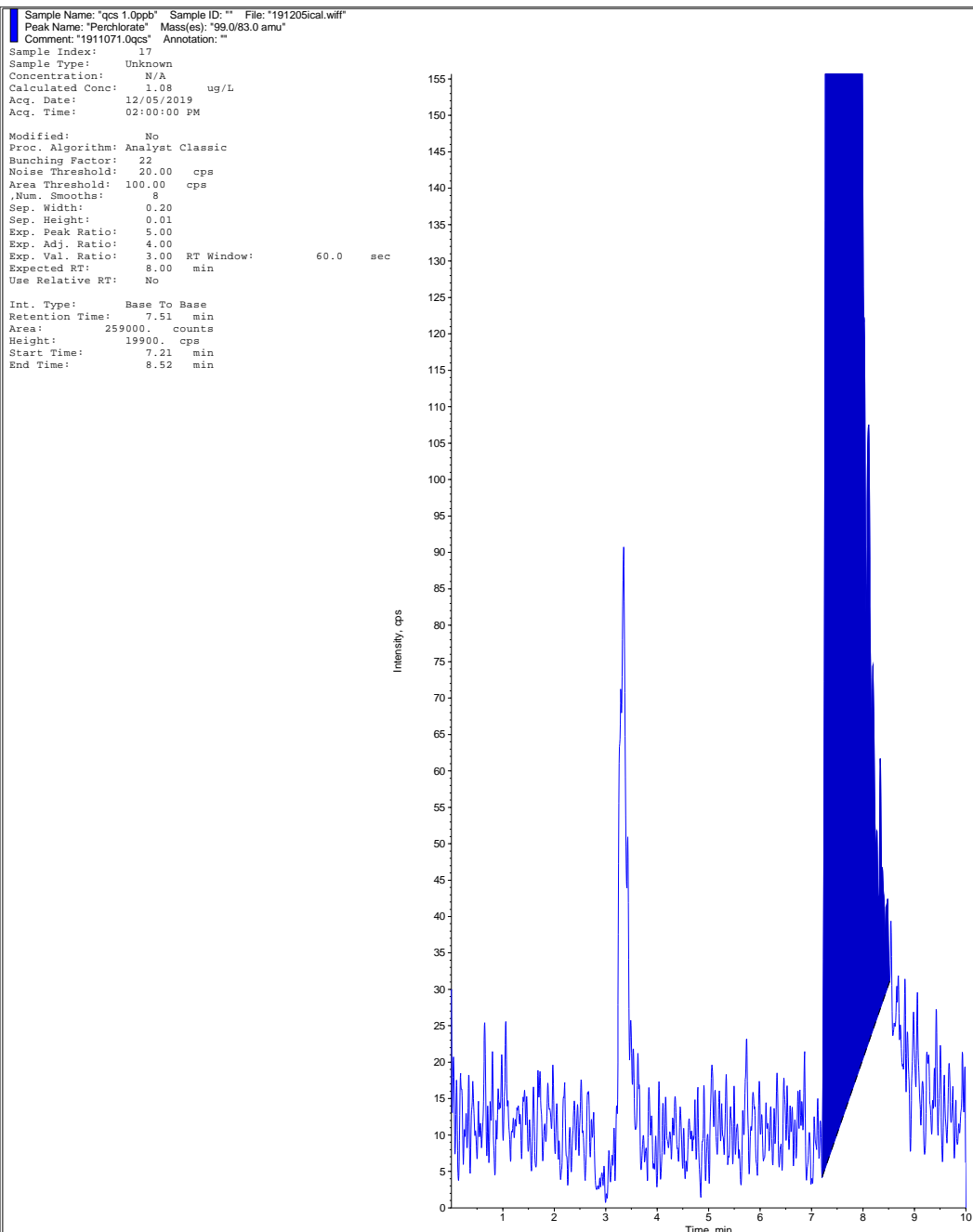
Int. Type: Base To Base
Retention Time: 7.81 min
Area: 249000 counts
Height: 20700 cps
Start Time: 7.45 min
End Time: 8.87 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator



Collected by: N/A
Electronic Signature: no
Operator: Administrator



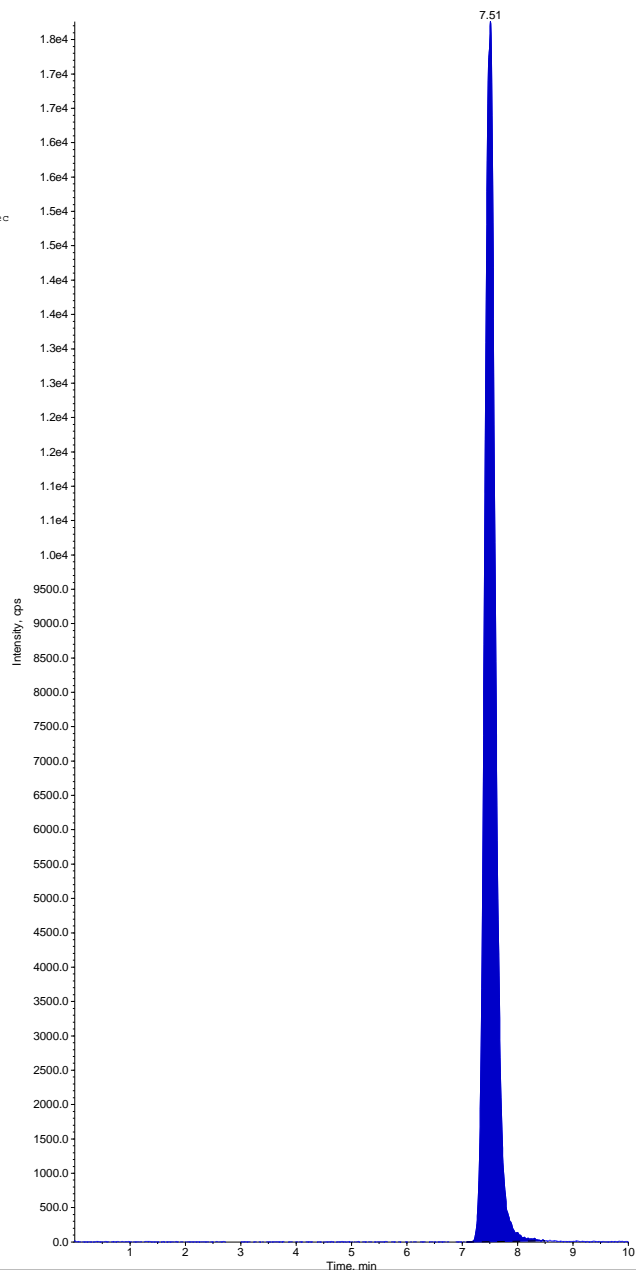
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'qcs 1.0ppb' Sample ID: '' File: '191205cal.wiff'
Peak Name: 'Perchlorate-O18(3)' Mass(es): '107.089.0 amu'
Comment: '1911071.0qcs' Annotation: ''

Sample Index: 17
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/05/2019
Acq. Time: 02:00:00 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.51 min
Area: 241000 counts
Height: 17800 cps
Start Time: 7.08 min
End Time: 8.49 min



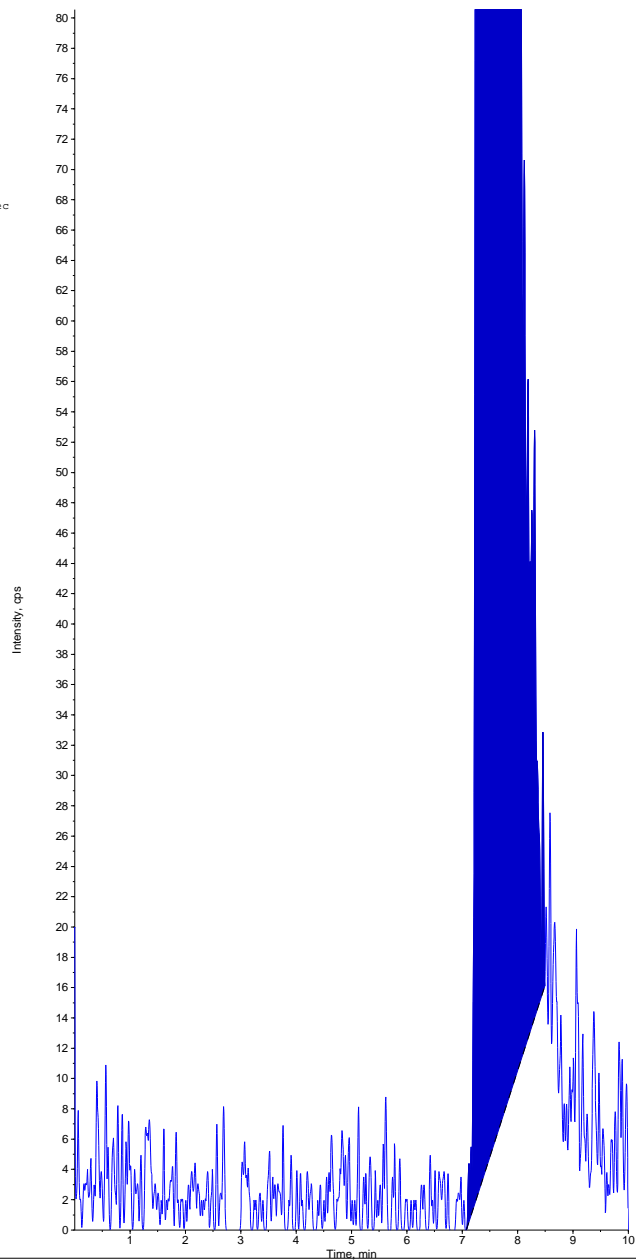
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'qcs 1.0ppb' Sample ID: '' File: '191205cal.wiff'
Peak Name: 'Perchlorate-O18(3)' Mass(es): '107.089.0 amu'
Comment: '1911071.0qcs' Annotation: ''

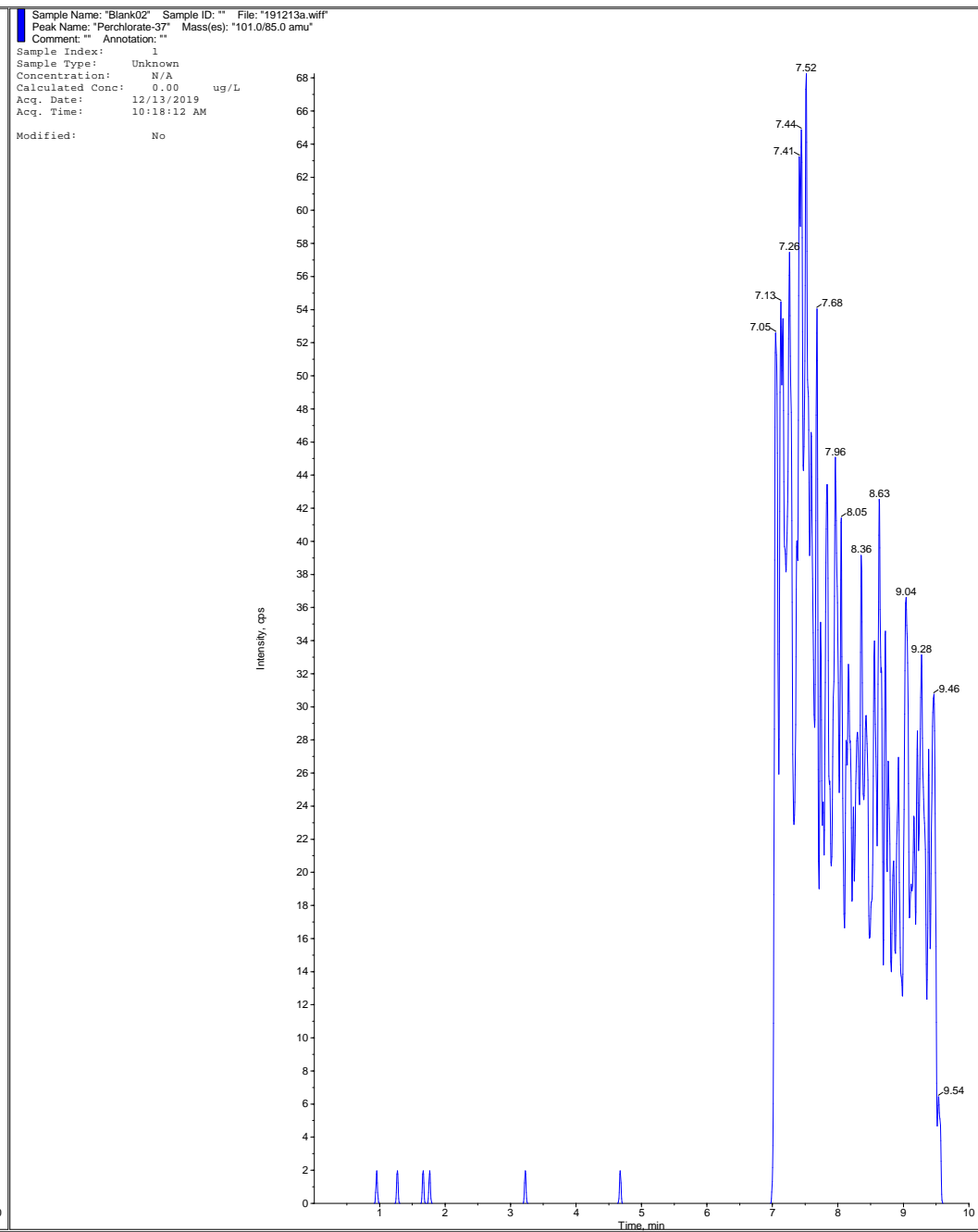
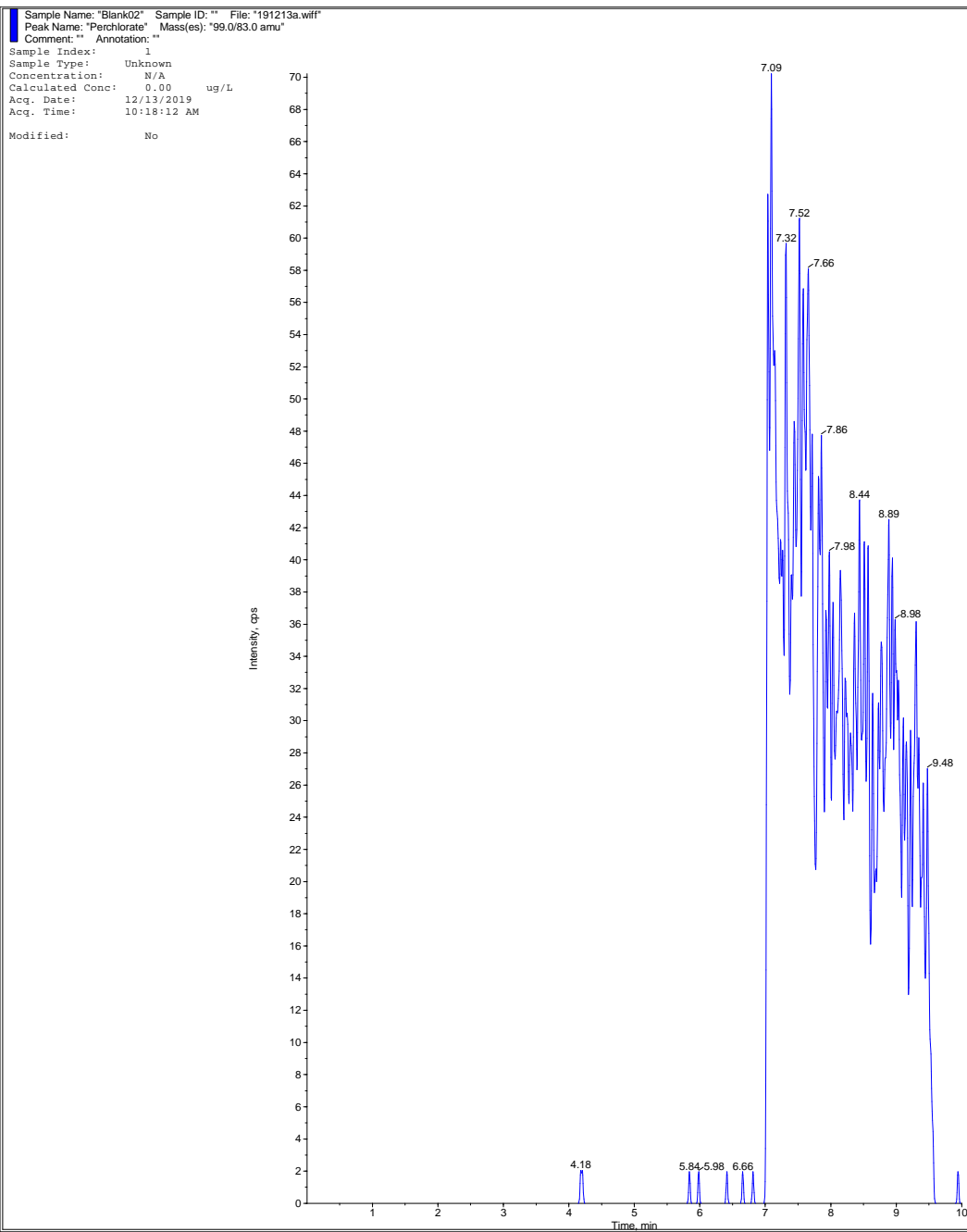
Sample Index: 17
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/05/2019
Acq. Time: 02:00:00 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
,Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

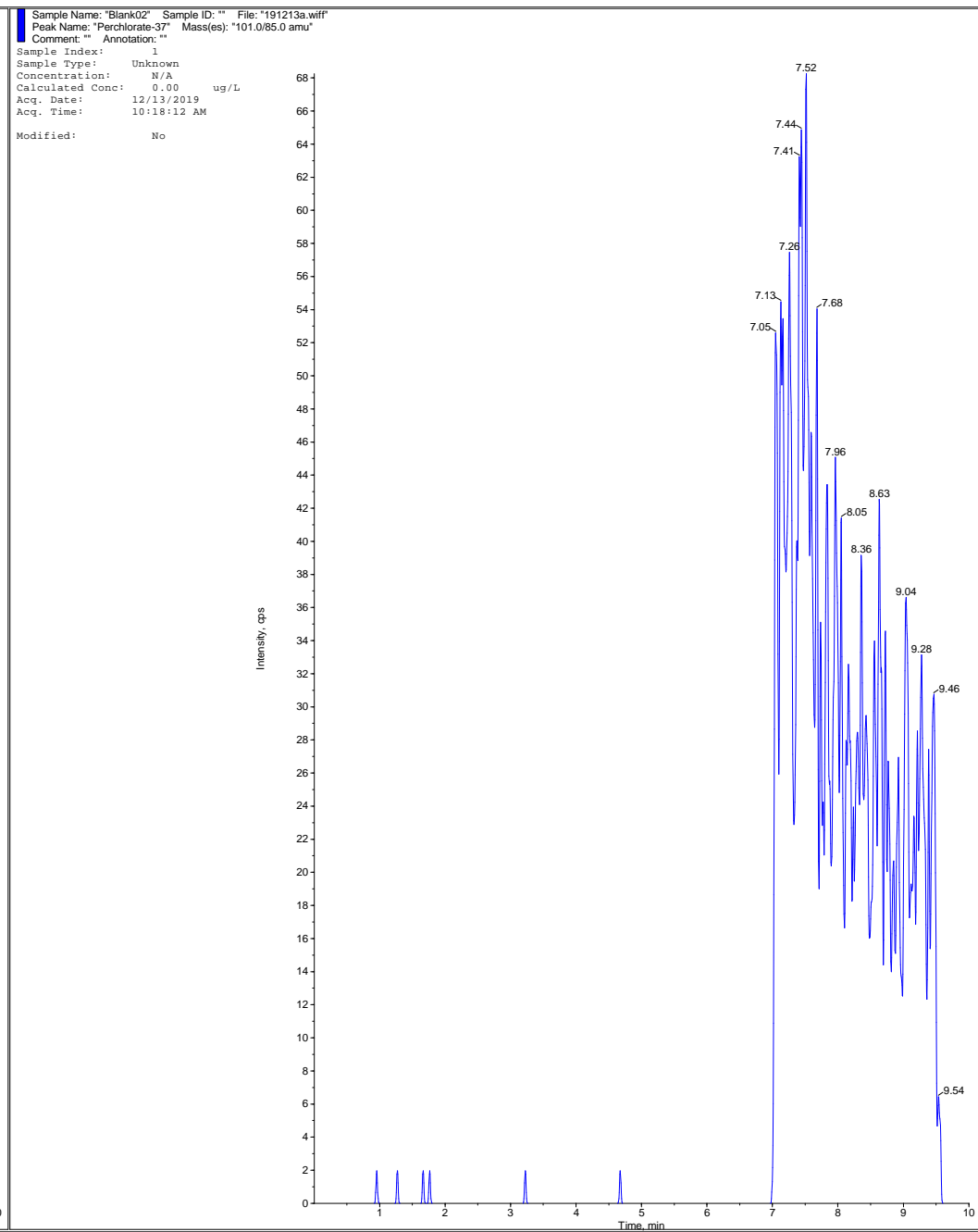
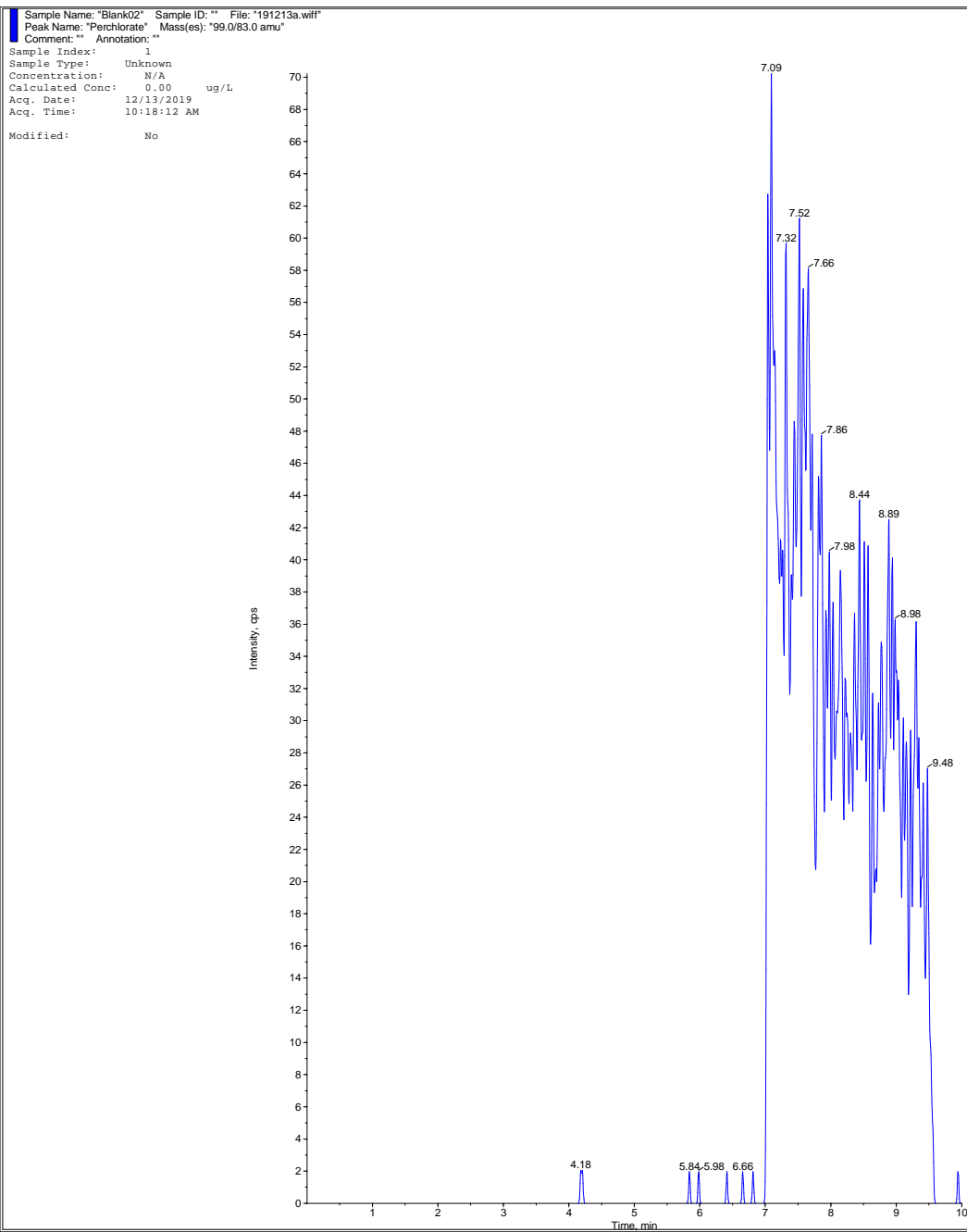
Int. Type: Base To Base
Retention Time: 7.51 min
Area: 241000 counts
Height: 17800 cps
Start Time: 7.08 min
End Time: 8.49 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator

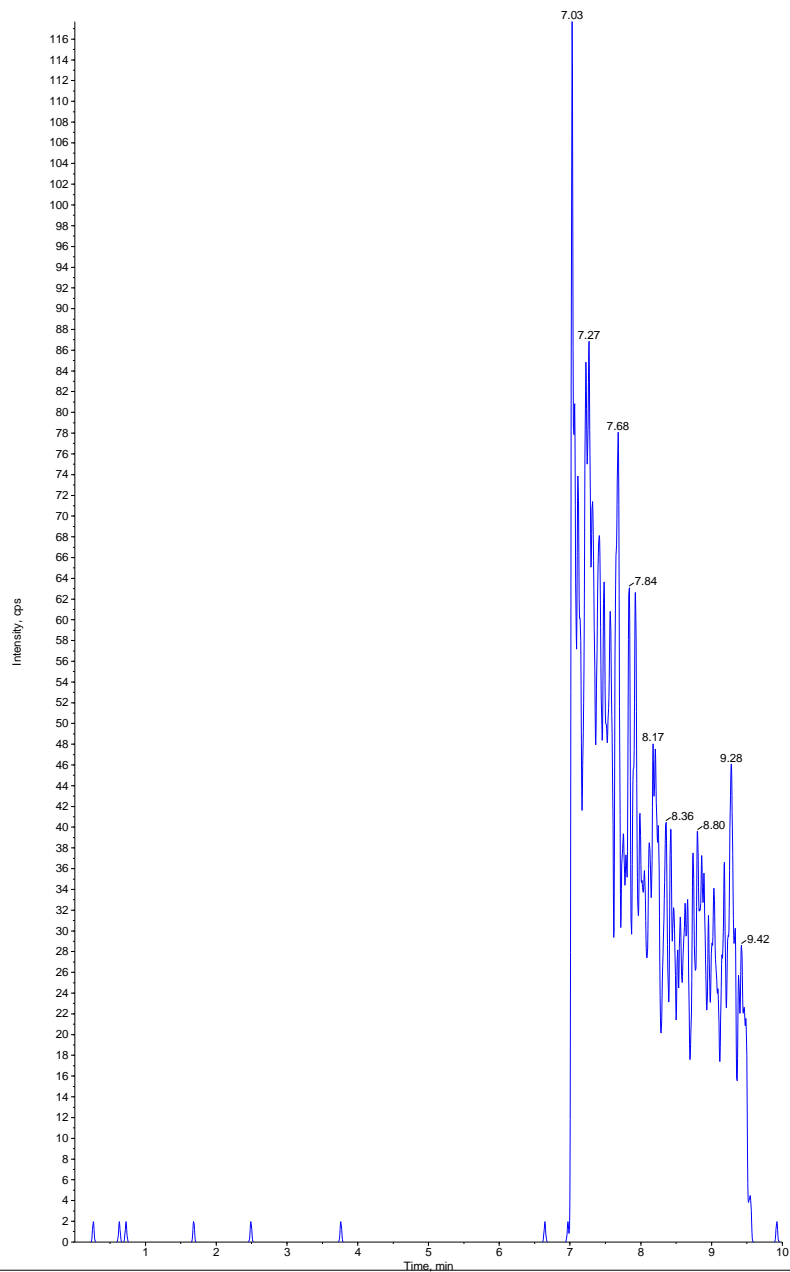


Collected by: N/A
Electronic Signature: no
Operator: Administrator



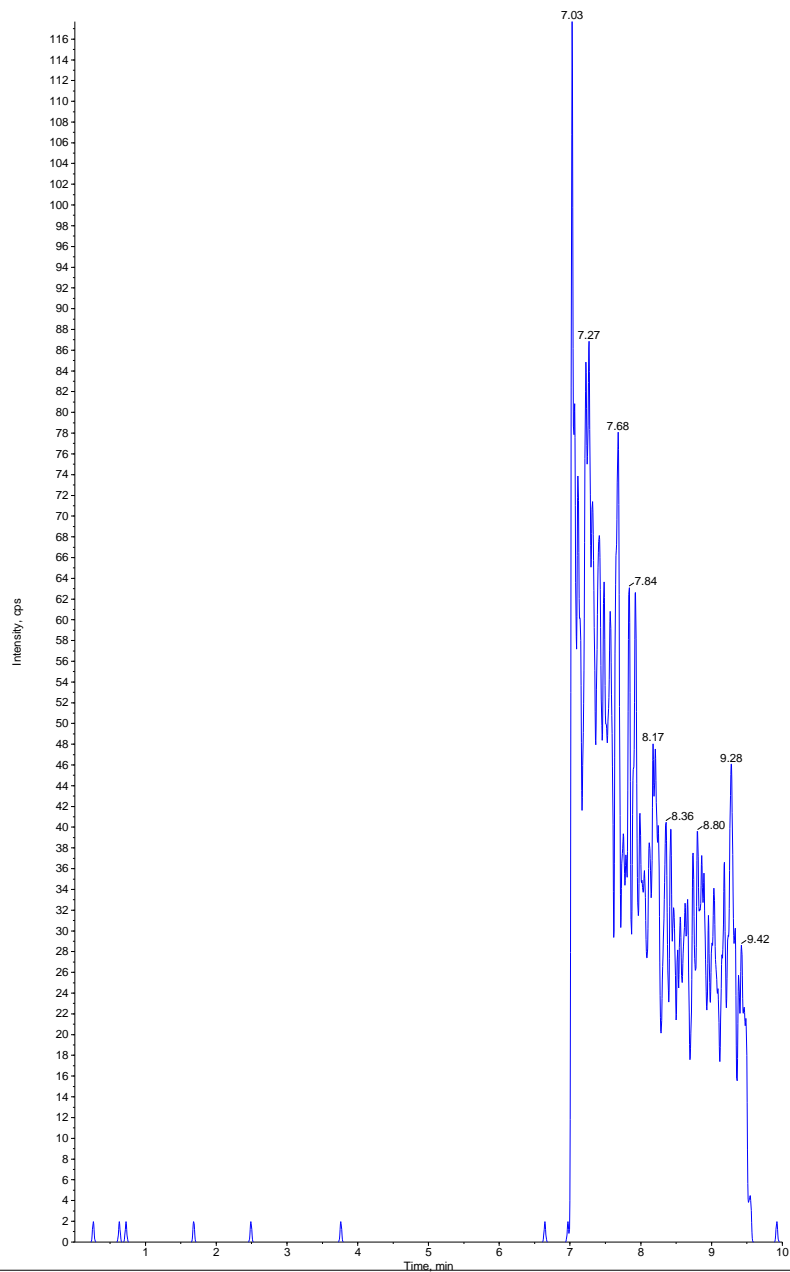
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "Blank02" Sample ID: "" File: "191213a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/13/2019
Acq. Time: 10:18:12 AM
Modified: No



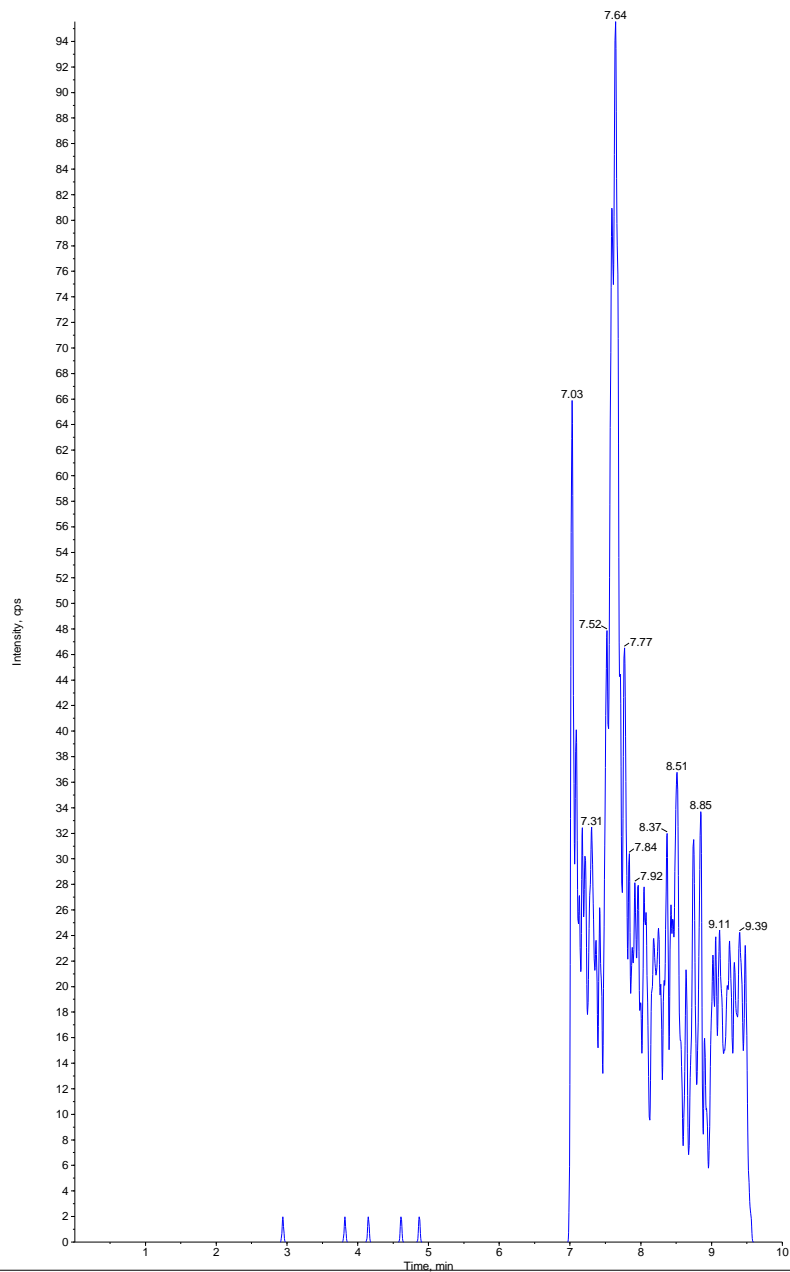
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "Blank02" Sample ID: "" File: "191213a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/13/2019
Acq. Time: 10:18:12 AM
Modified: No

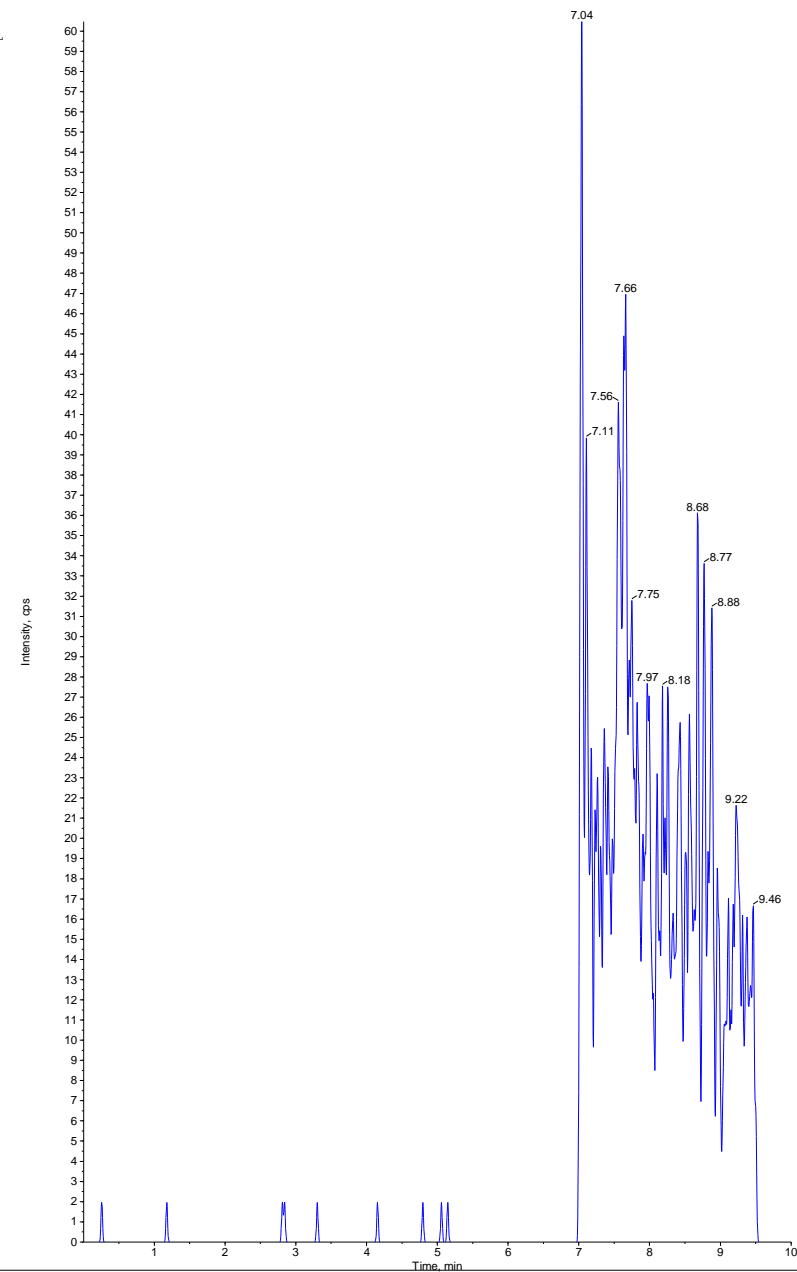


Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "Blank03 is" Sample ID: "" File: "191213a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "IS lot#:191211isws" Annotation: ""
Sample Index: 2
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/13/2019
Acq. Time: 11:01:01 AM
Modified: No

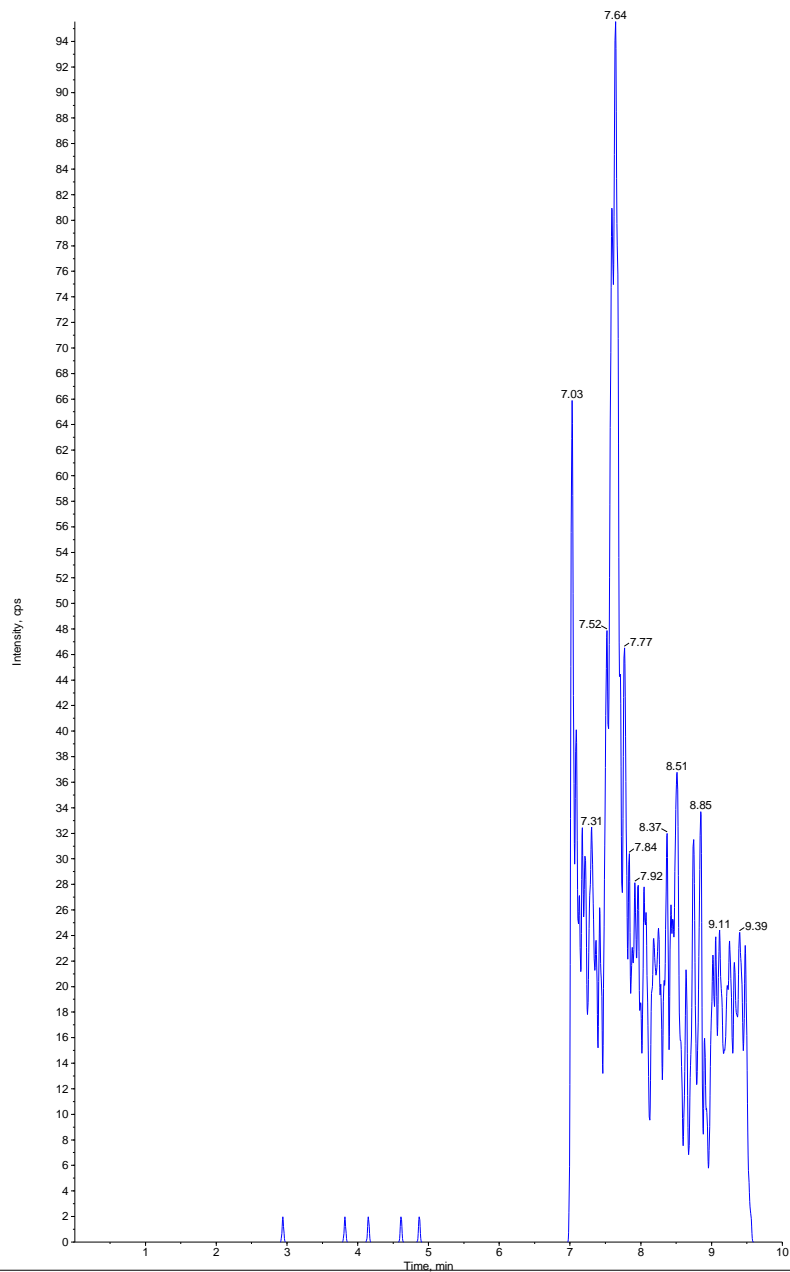


Sample Name: "Blank03 is" Sample ID: "" File: "191213a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "IS lot#:191211isws" Annotation: ""
Sample Index: 2
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/13/2019
Acq. Time: 11:01:01 AM
Modified: No

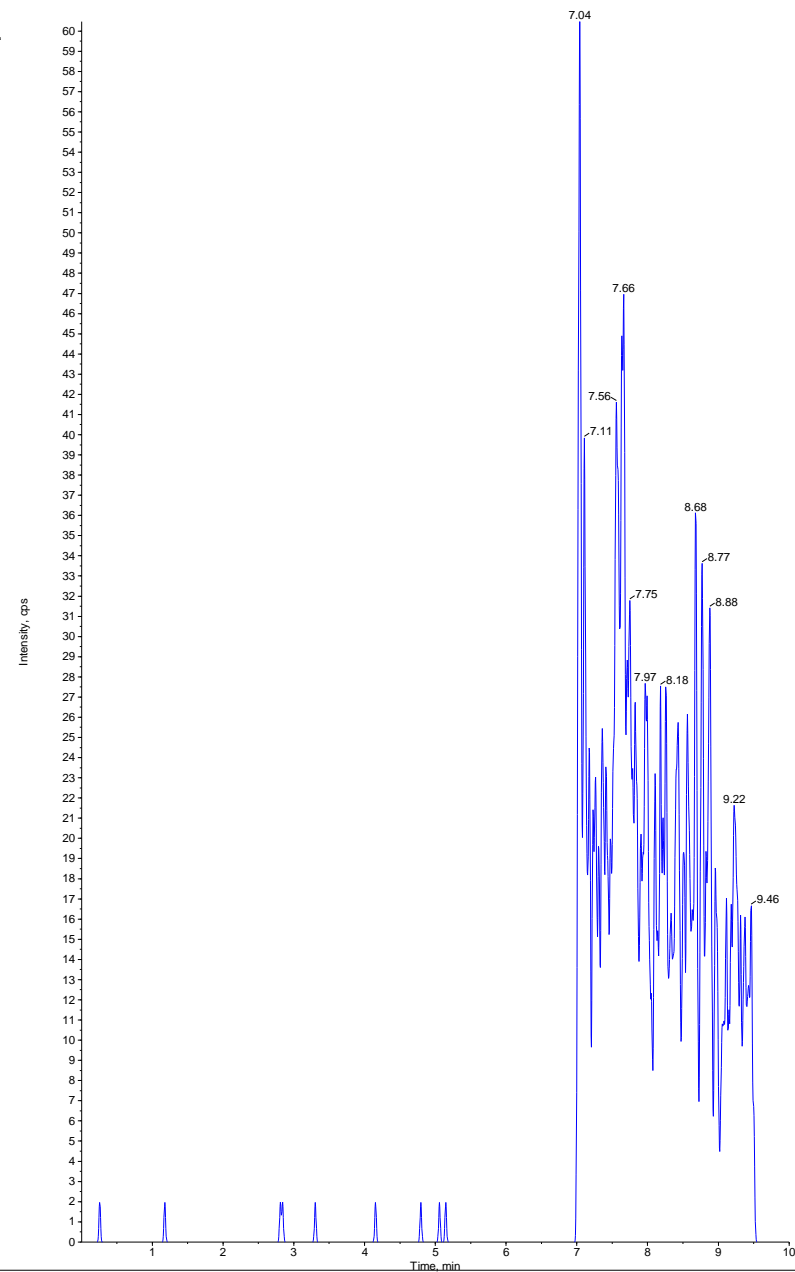


Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "Blank03 is" Sample ID: "" File: "191213a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "IS lot#:191211isws" Annotation: ""
Sample Index: 2
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/13/2019
Acq. Time: 11:01:01 AM
Modified: No



Sample Name: "Blank03 is" Sample ID: "" File: "191213a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "IS lot#:191211isws" Annotation: ""
Sample Index: 2
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/13/2019
Acq. Time: 11:01:01 AM
Modified: No



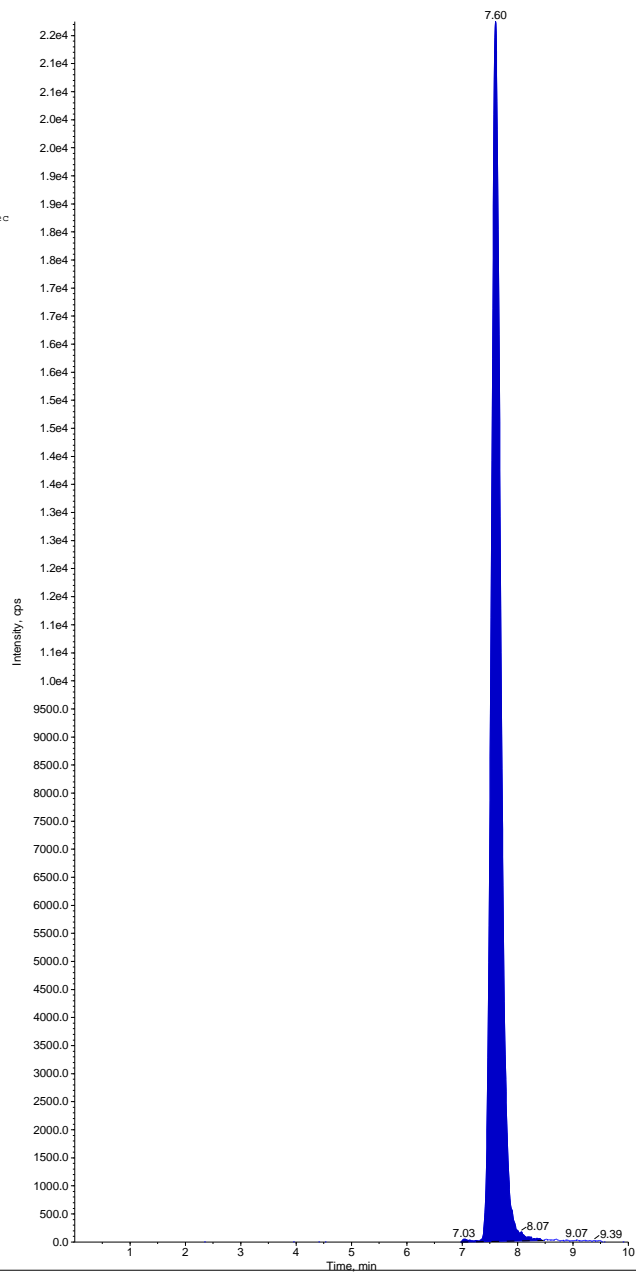
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'Blank03.is' Sample ID: '' File: '191213a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: 'IS lot#191211isws' Annotation: ''

Sample Index: 2
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/13/2019
Acq. Time: 11:01:01 AM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.60 min
Area: 259000 counts
Height: 21700 cps
Start Time: 6.97 min
End Time: 8.46 min



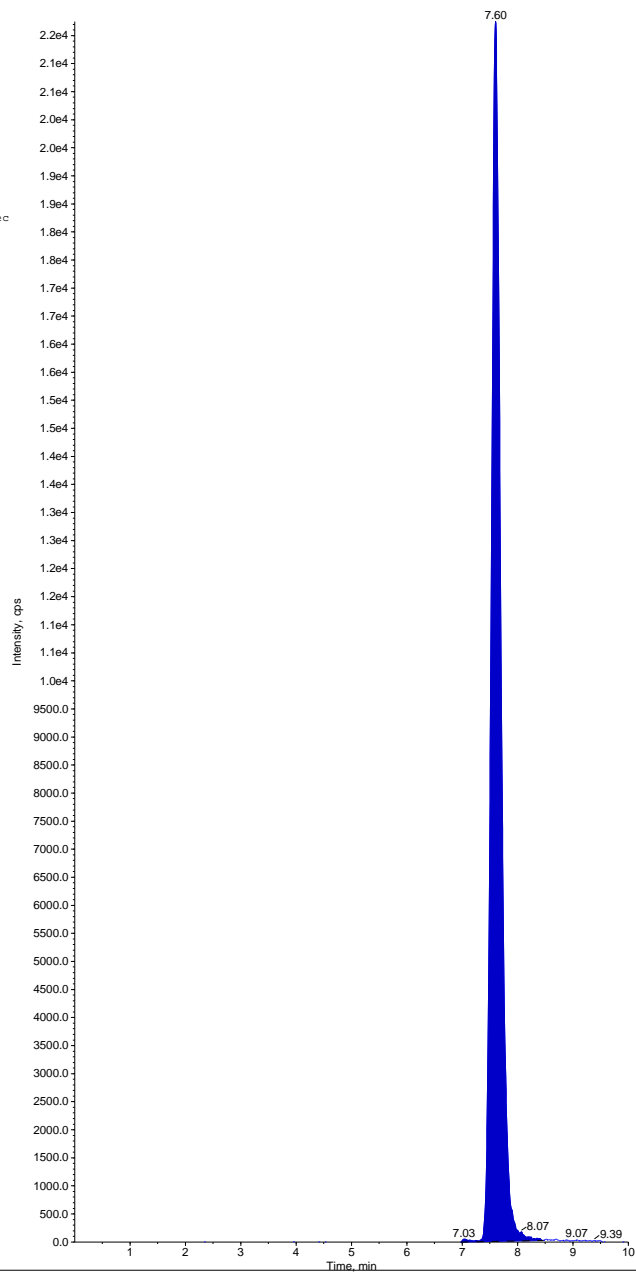
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'Blank03.is' Sample ID: '' File: '191213a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: 'IS lot#:191211isws' Annotation: ''

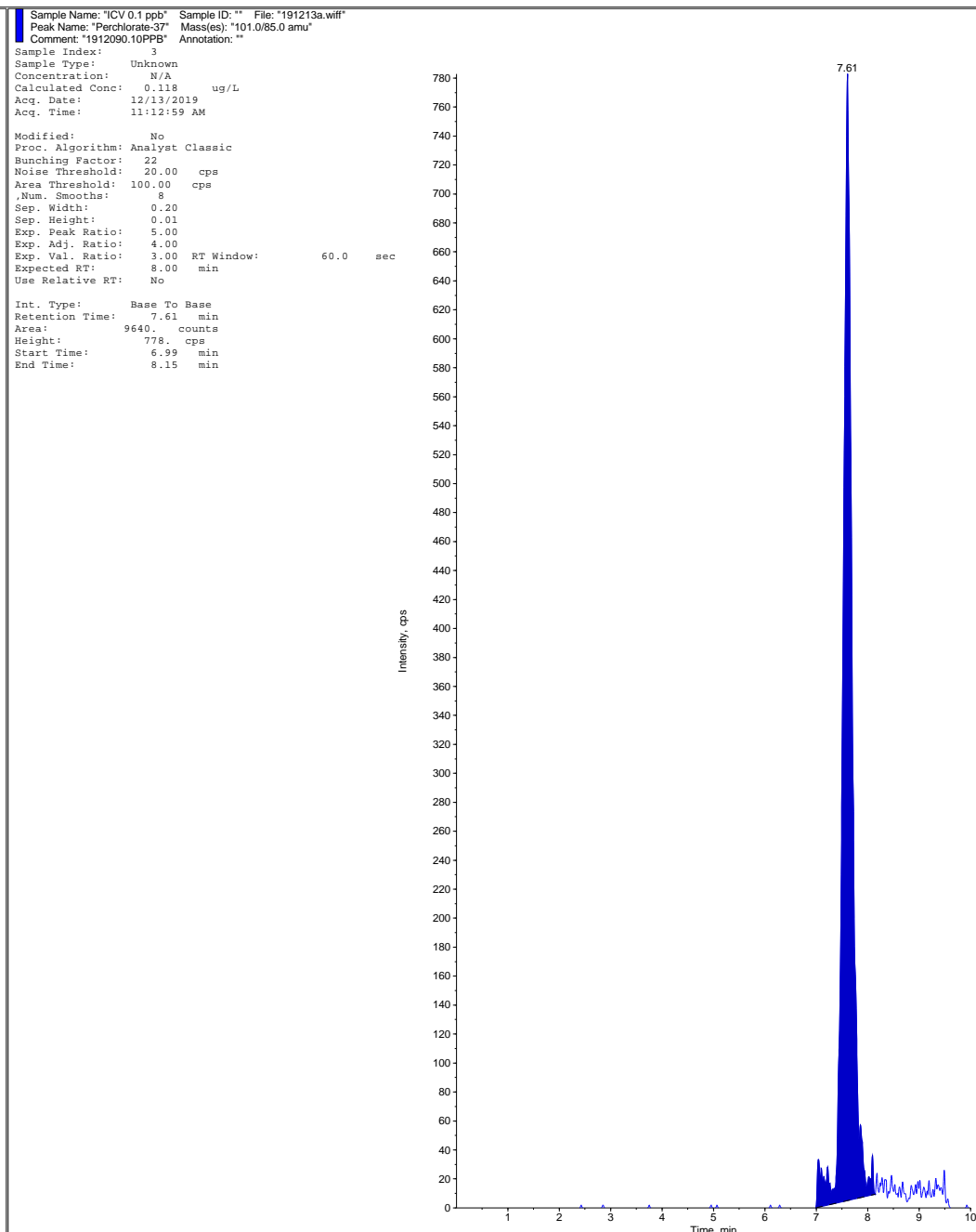
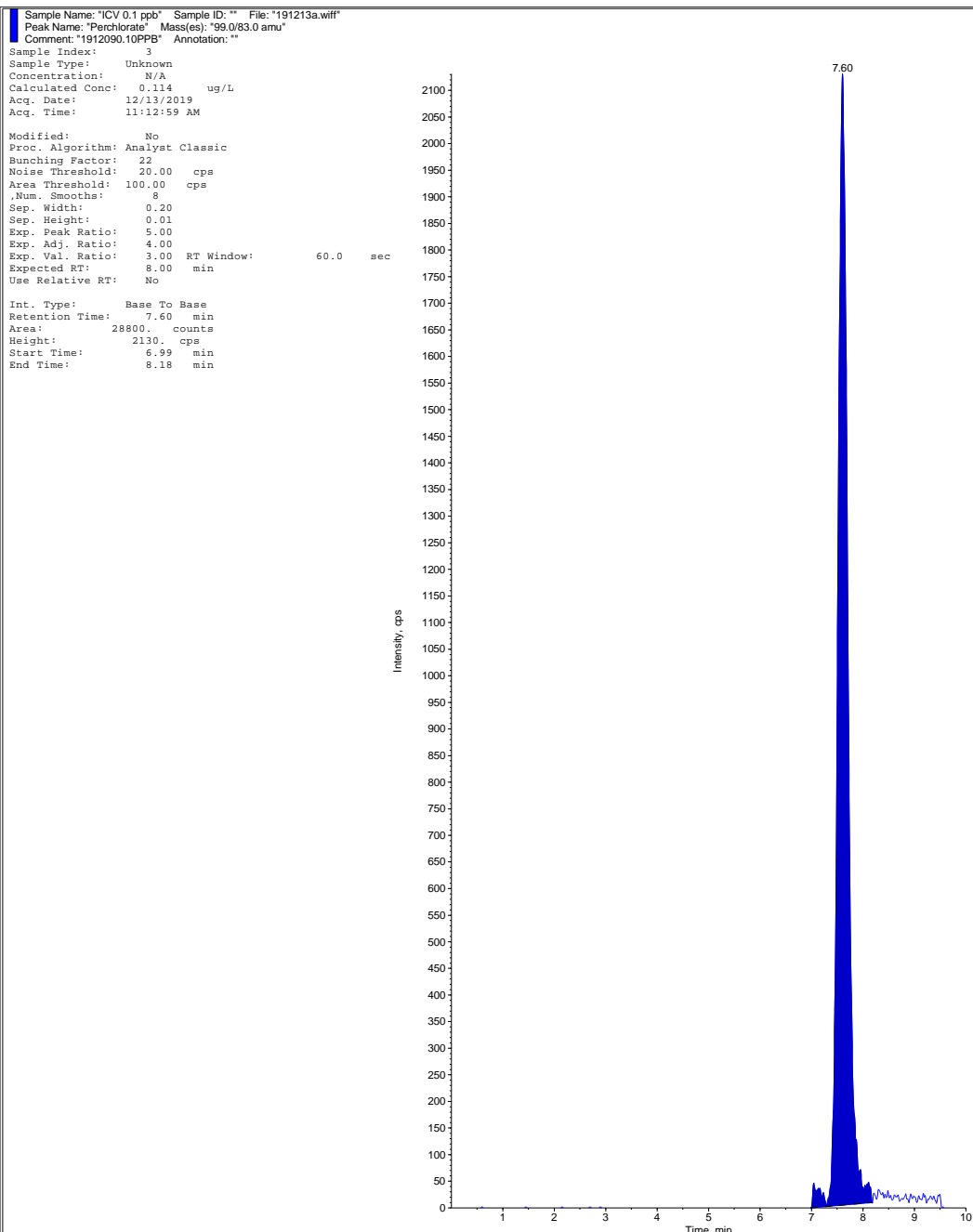
Sample Index: 2
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/13/2019
Acq. Time: 11:01:01 AM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

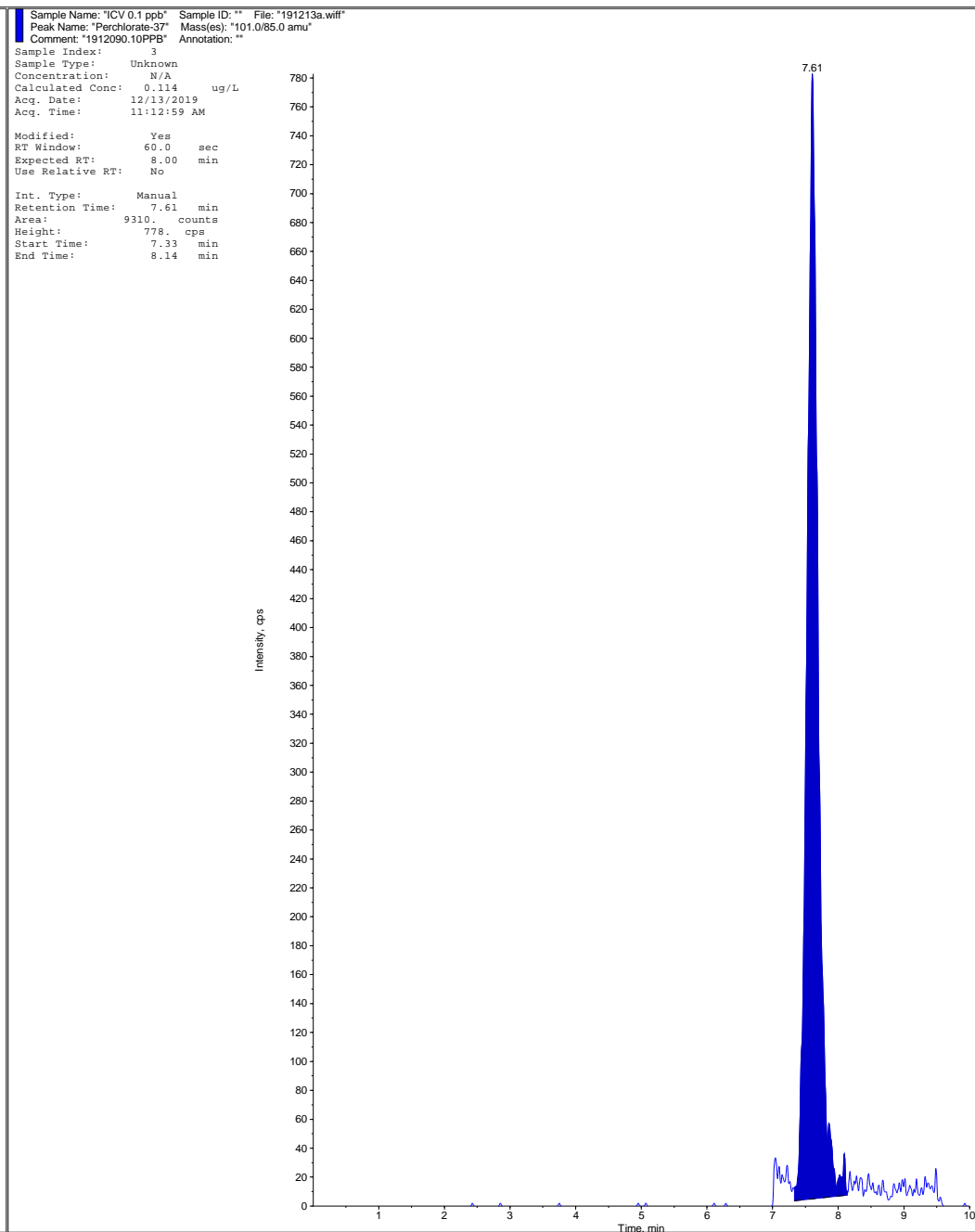
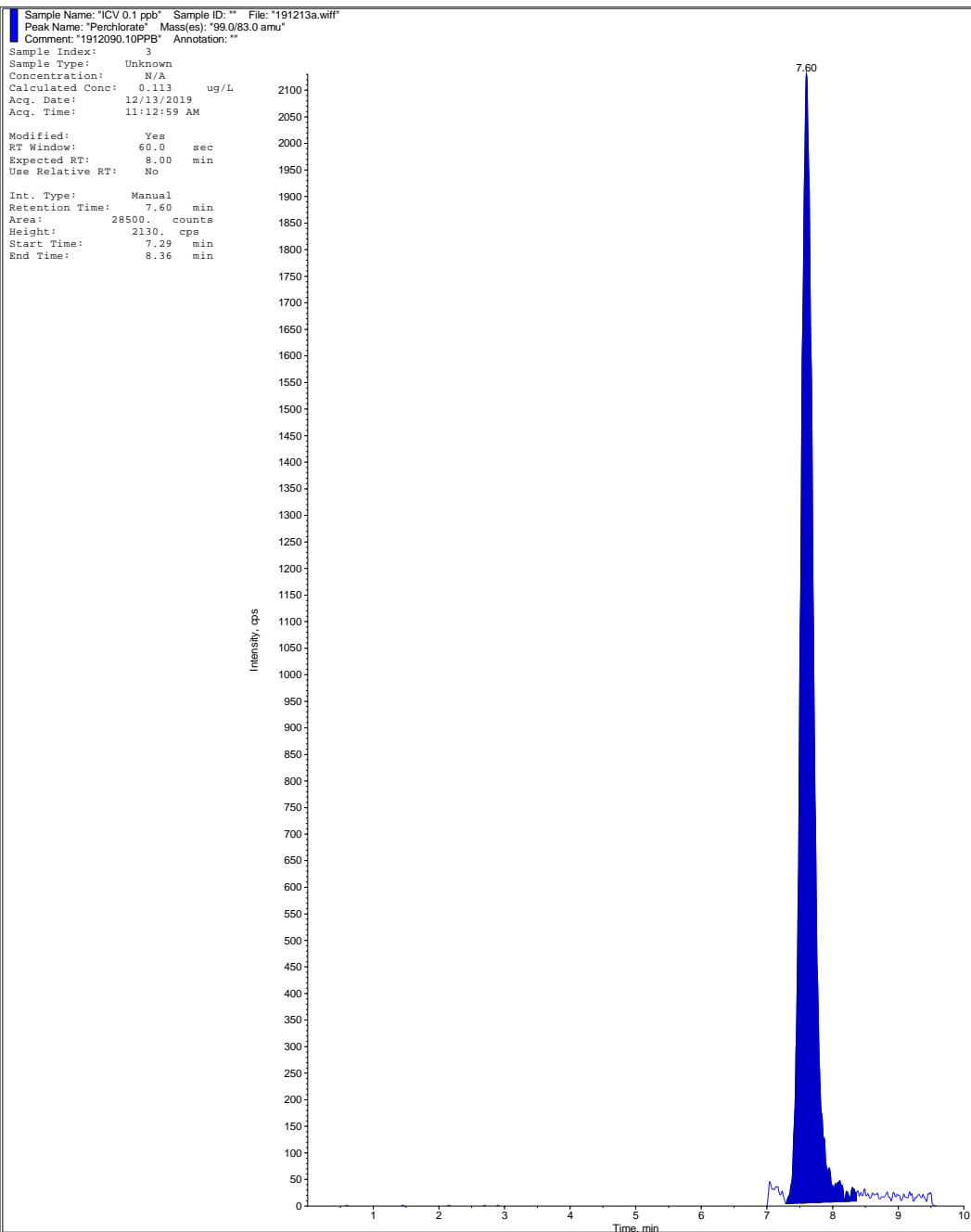
Int. Type: Base To Base
Retention Time: 7.60 min
Area: 259000 counts
Height: 21700 cps
Start Time: 6.97 min
End Time: 8.46 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator



Collected by: N/A
Electronic Signature: no
Operator: Administrator



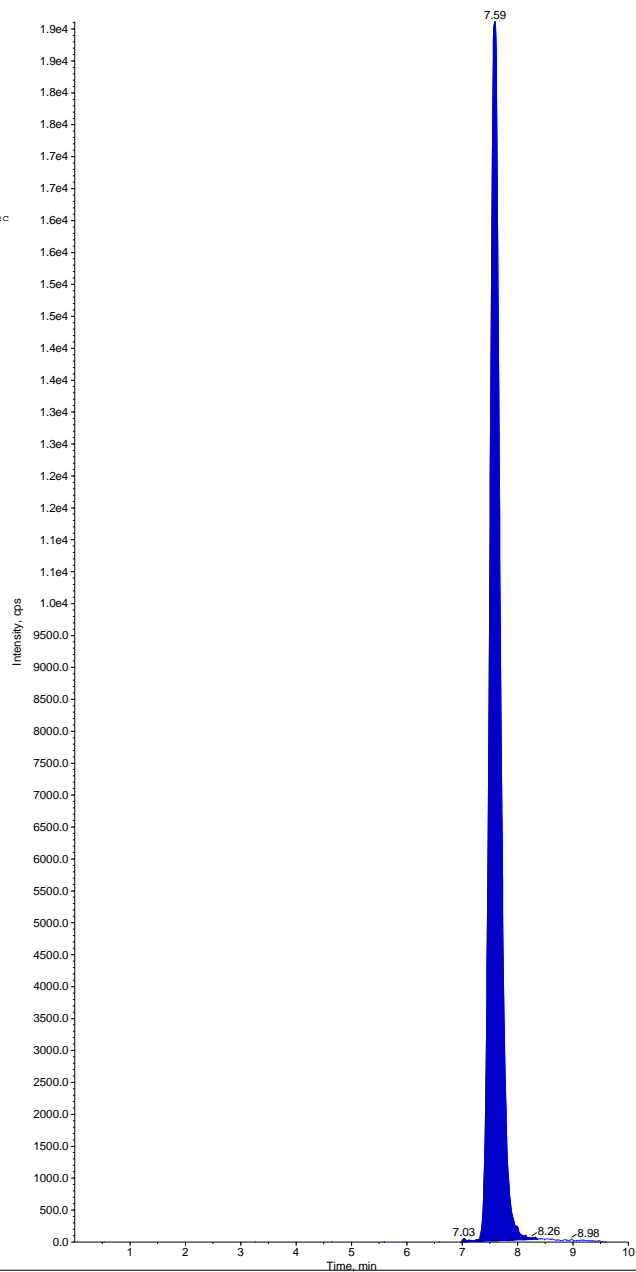
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'ICV 0.1 ppb' Sample ID: '' File: '191213a.wiff'
Peak Name: 'Perchlorate-O18(3)' Mass(es): '107.0/89.0 amu'
Comment: '1912090.10PPB' Annotation: ''

Sample Index: 3
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/13/2019
Acq. Time: 11:12:59 AM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.59 min
Area: 251000 counts
Height: 19100 cps
Start Time: 6.97 min
End Time: 8.37 min



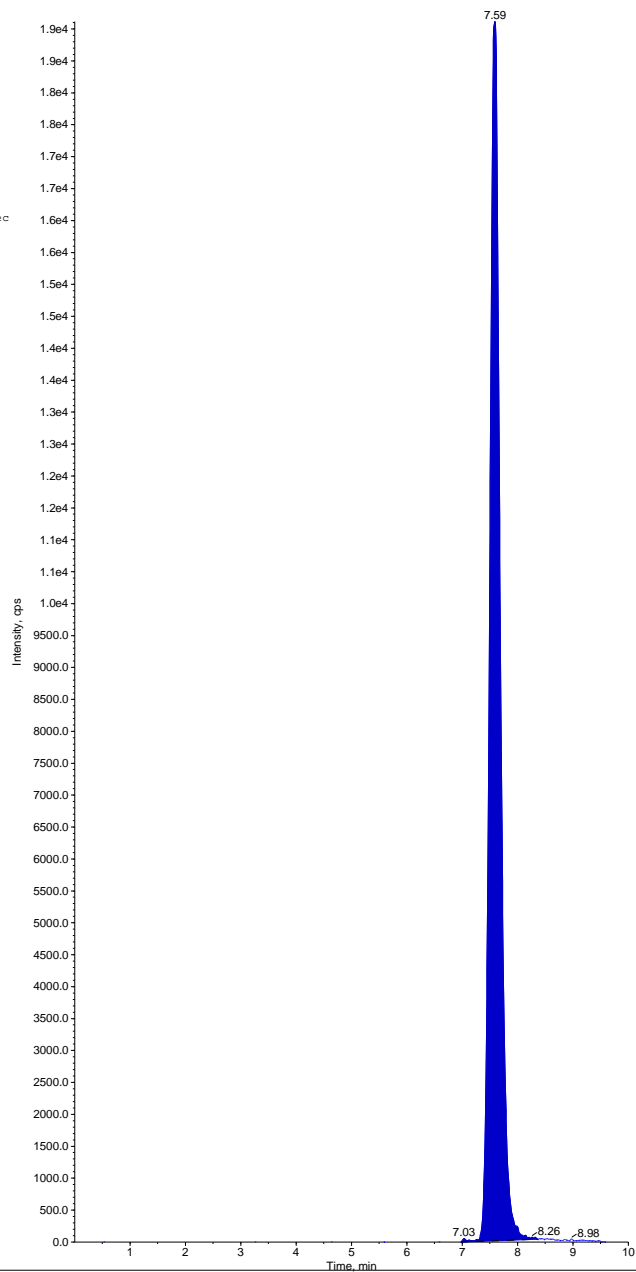
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'ICV 0.1 ppb' Sample ID: '' File: '191213a.wiff'
Peak Name: 'Perchlorate-O18(3)' Mass(es): '107.0/89.0 amu'
Comment: '1912090.10PPB' Annotation: ''

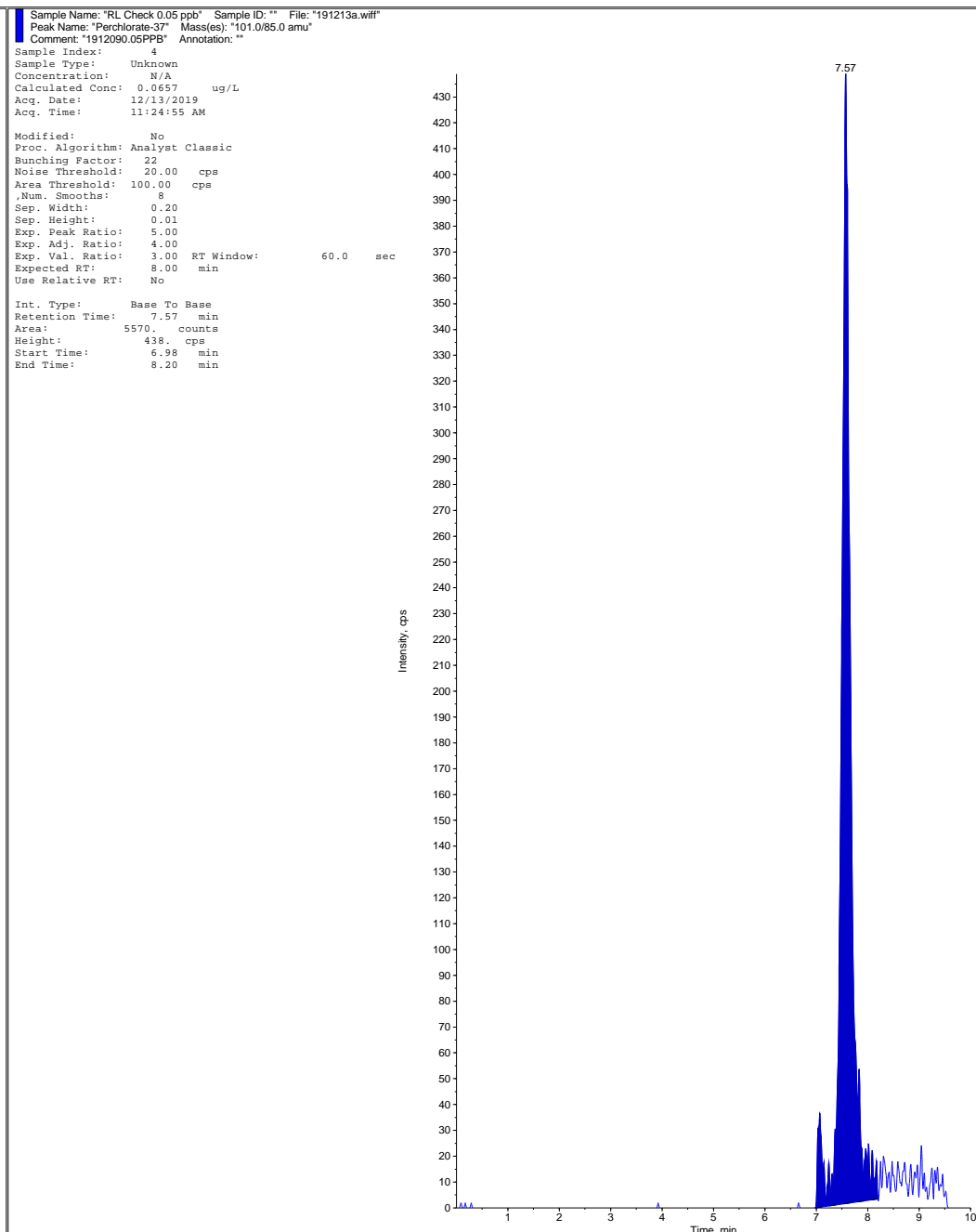
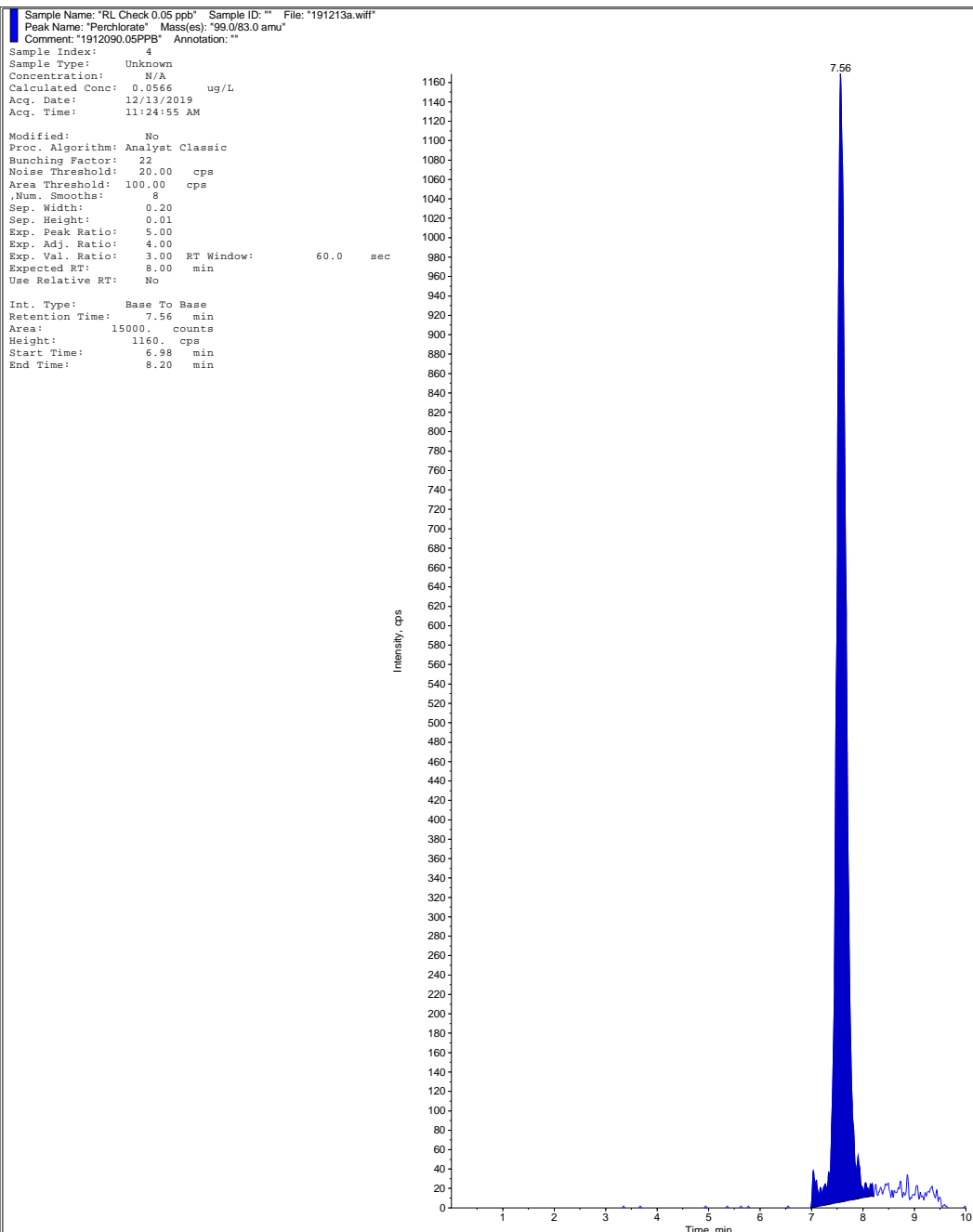
Sample Index: 3
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/13/2019
Acq. Time: 11:12:59 AM

Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

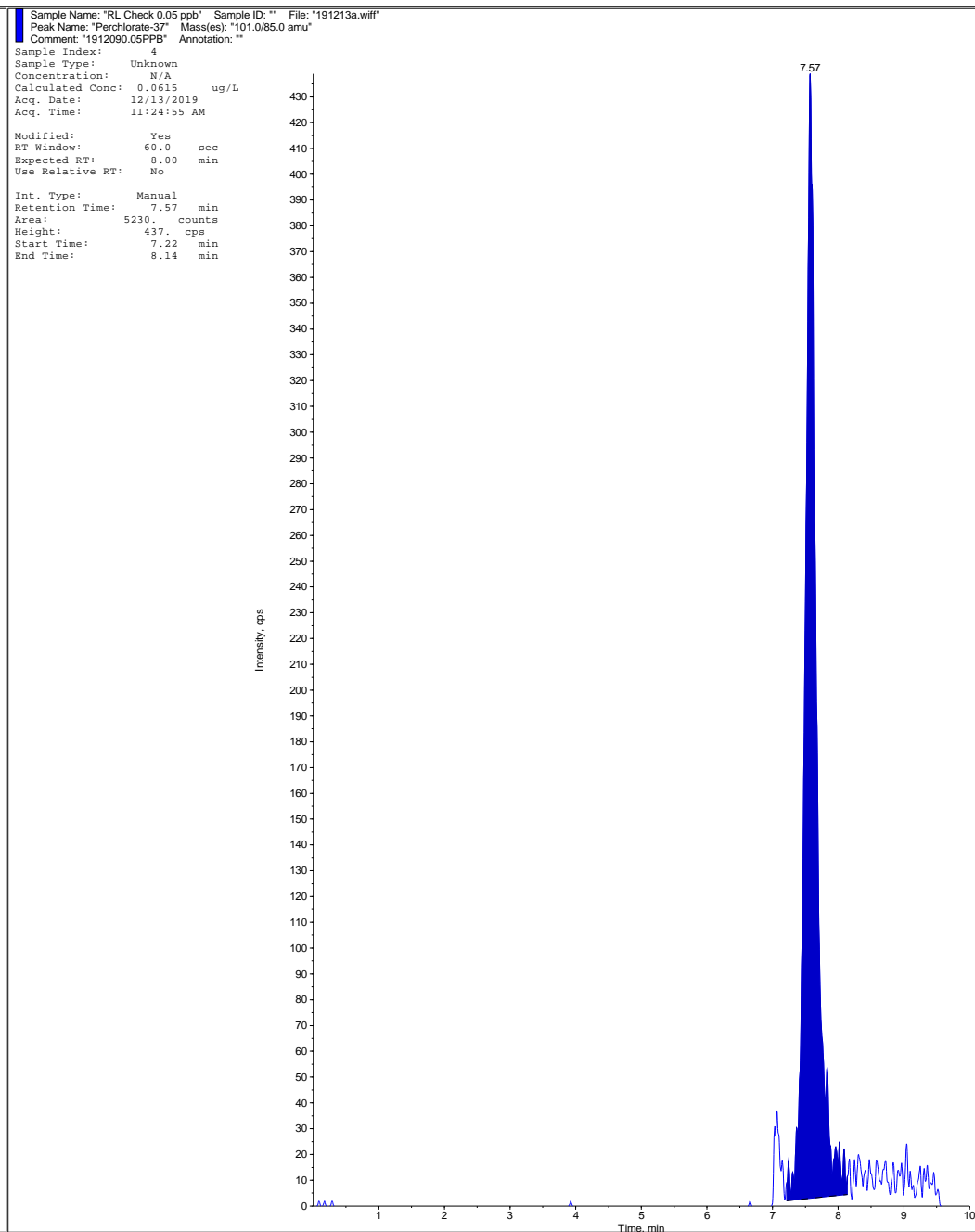
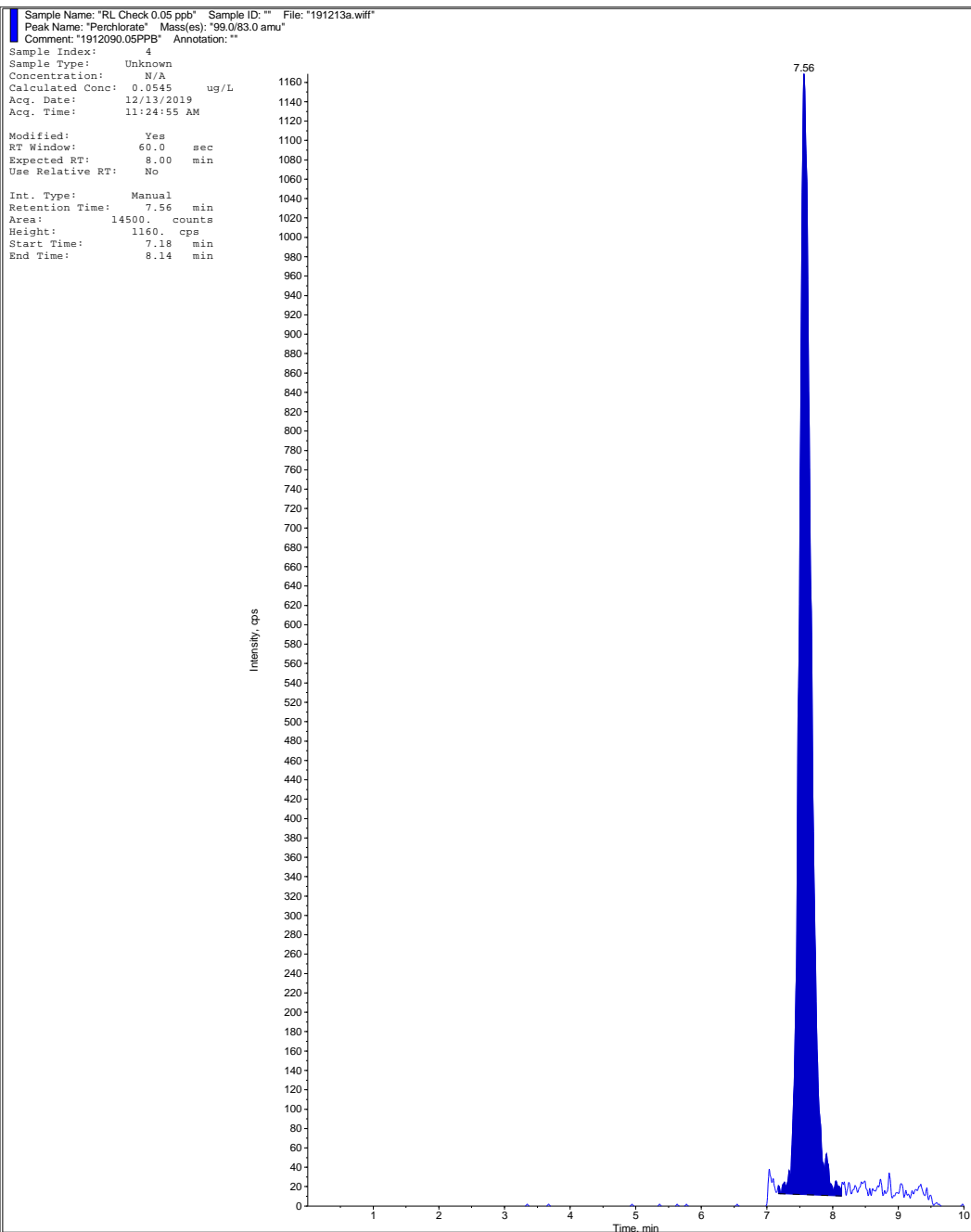
Int. Type: Base To Base
Retention Time: 7.59 min
Area: 251000 counts
Height: 19100 cps
Start Time: 6.97 min
End Time: 8.37 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator



Collected by: N/A
Electronic Signature: no
Operator: Administrator



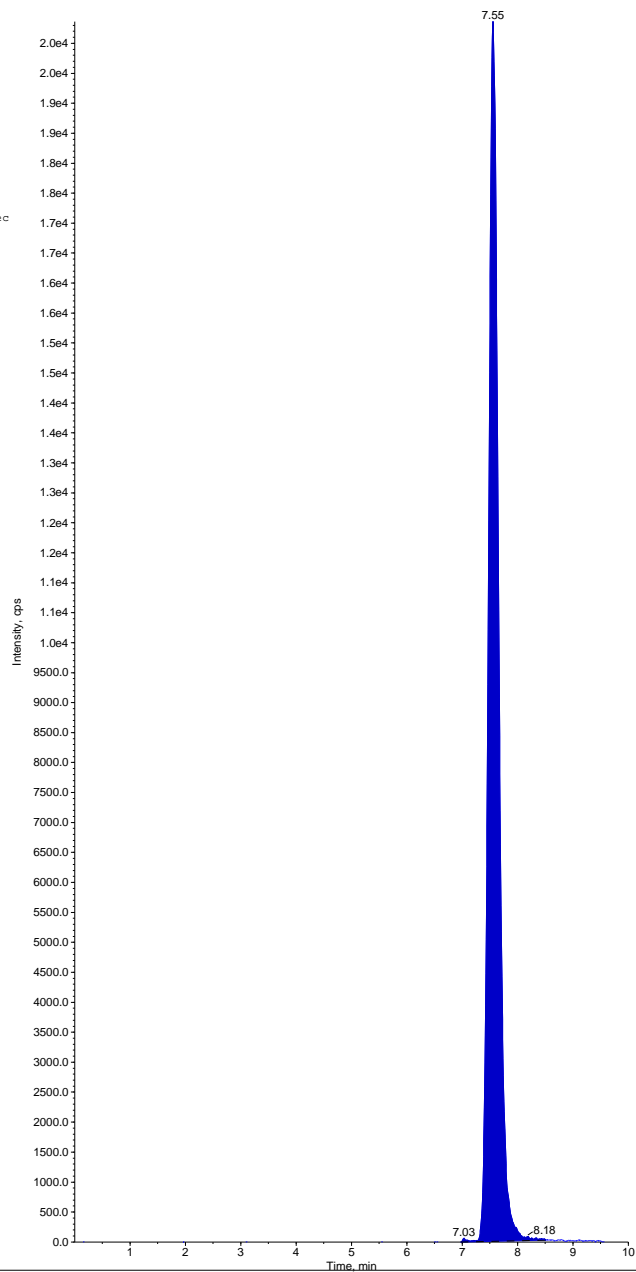
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'RL Check 0.05 ppb' Sample ID: '' File: '191213a.wiff'
Peak Name: 'Perchlorate-019(C)' Mass(es): '107.089.0 amu'
Comment: '1912090.05PPB' Annotation: ''

Sample Index: 4
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/13/2019
Acq. Time: 11:24:55 AM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.55 min
Area: 258000 counts
Height: 20400 cps
Start Time: 6.97 min
End Time: 8.51 min



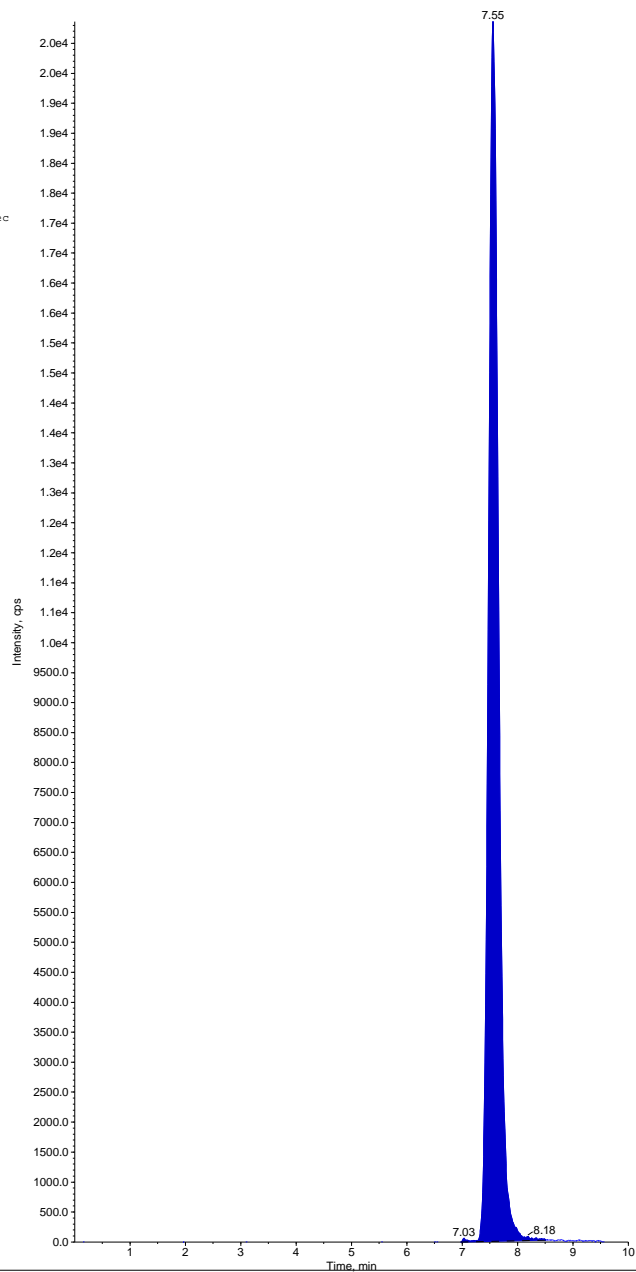
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'RL Check 0.05 ppb' Sample ID: '' File: '191213a.wiff'
Peak Name: 'Perchlorate-019(S)' Mass(es): '107.0/89.0 amu'
Comment: '1912090.05PPB' Annotation: ''

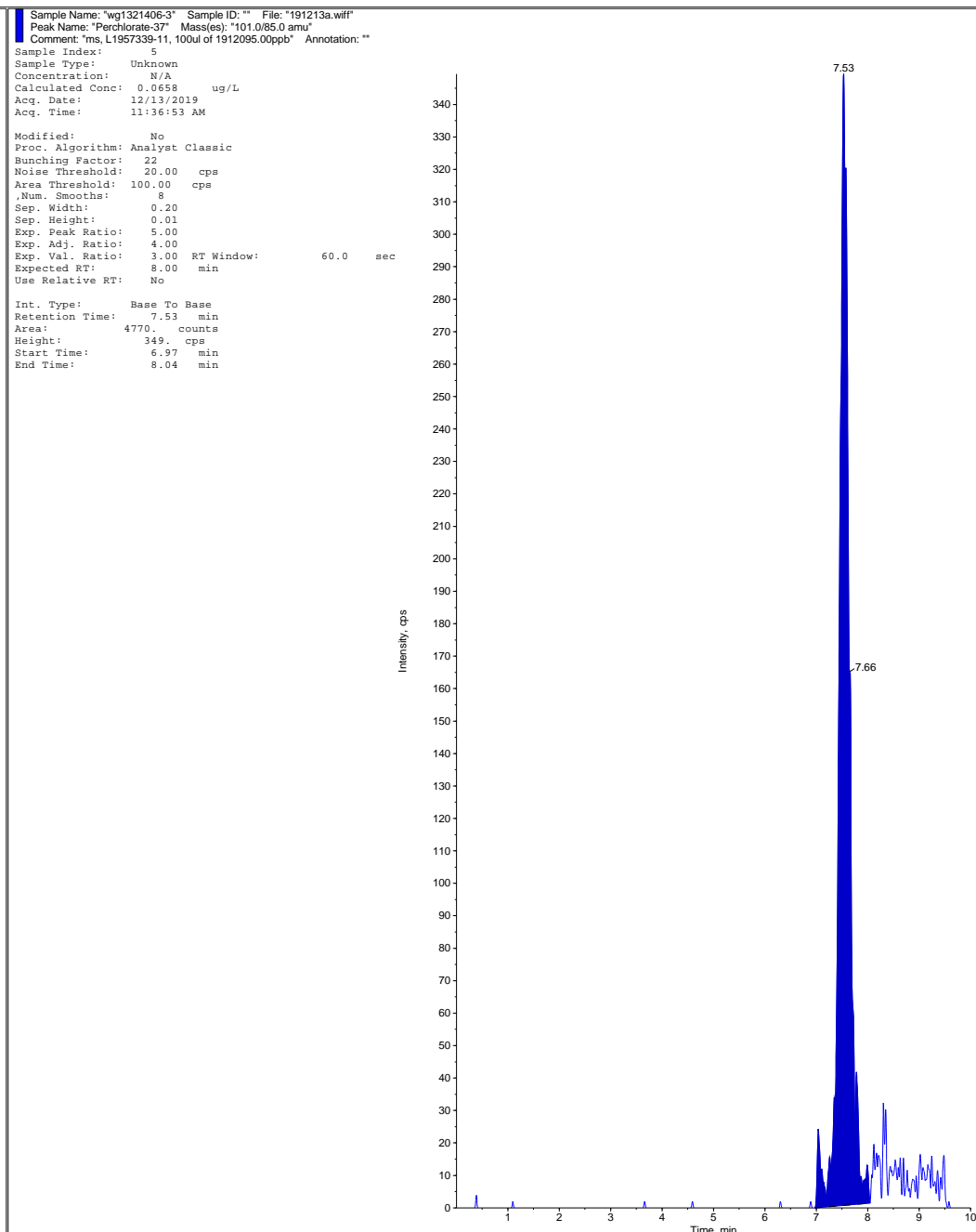
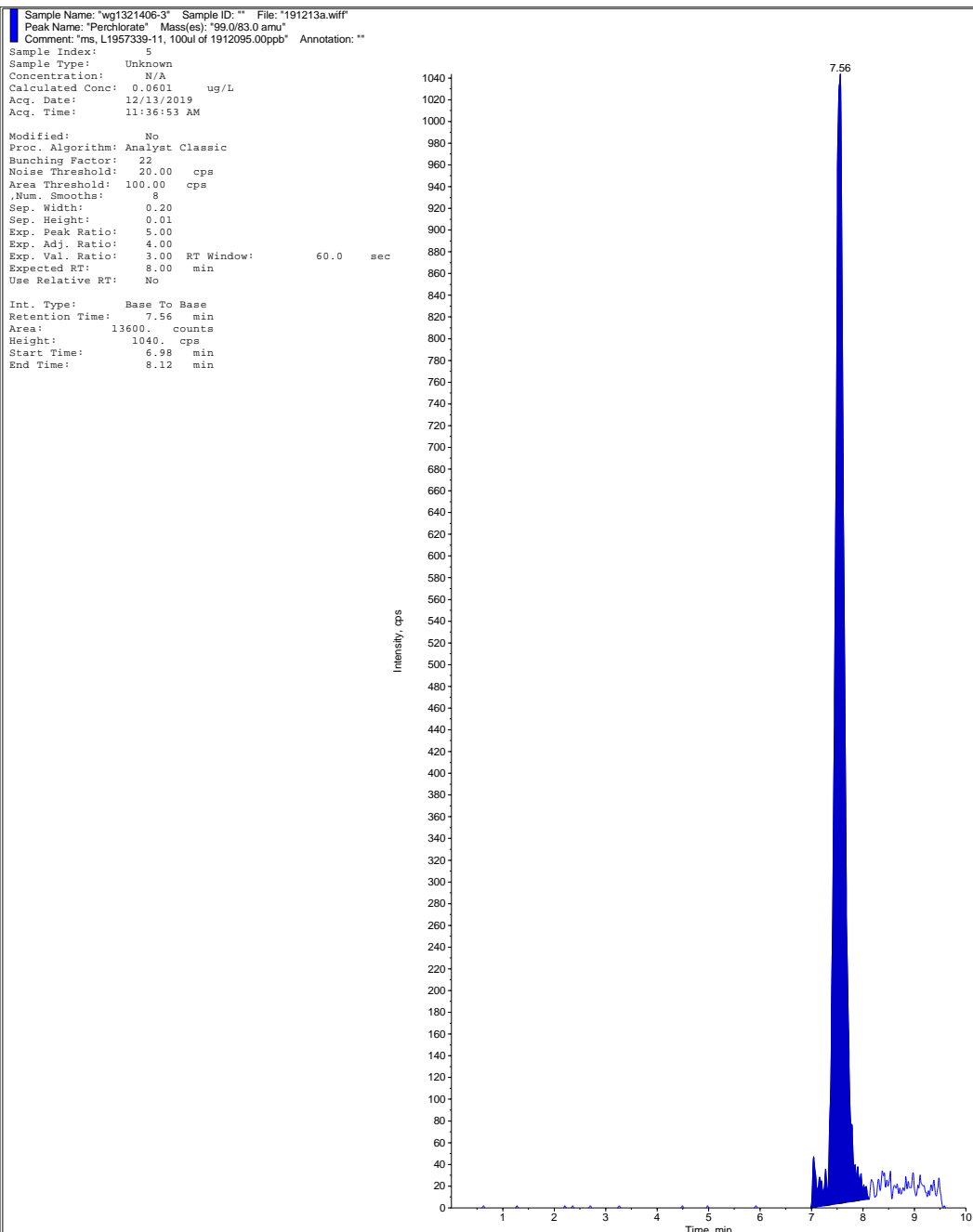
Sample Index: 4
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/13/2019
Acq. Time: 11:24:55 AM

Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
,Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

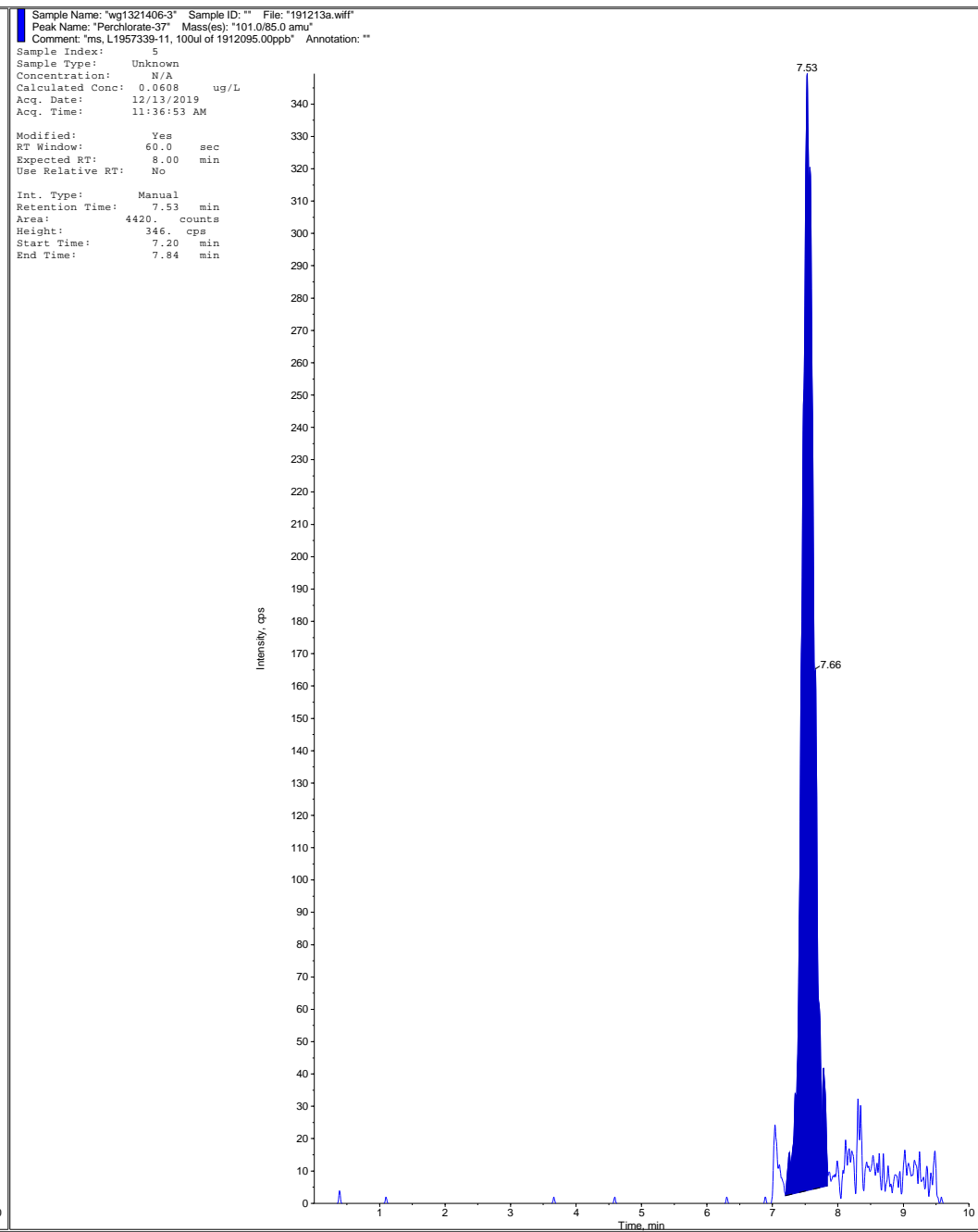
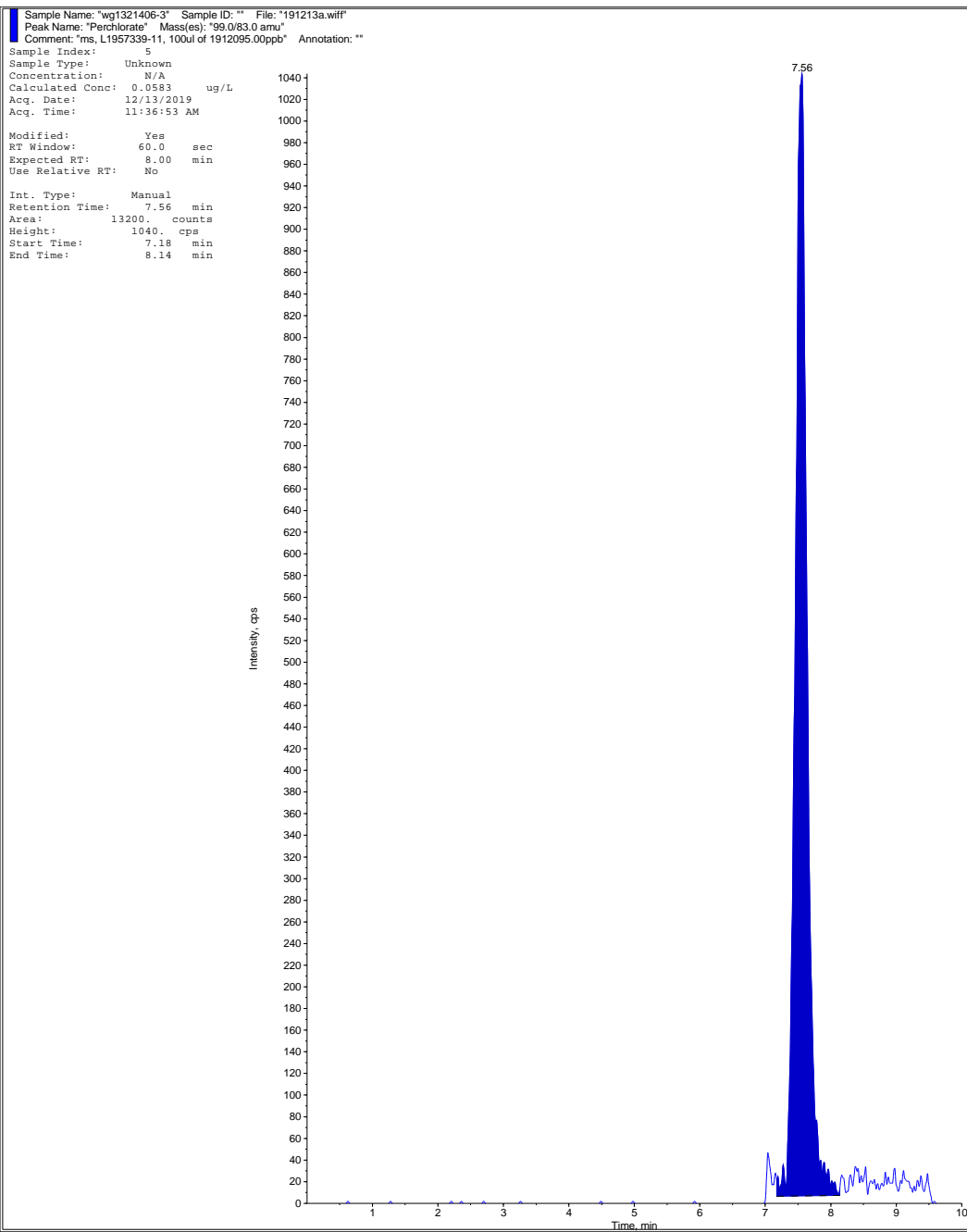
Int. Type: Base To Base
Retention Time: 7.55 min
Area: 258000 counts
Height: 20400 cps
Start Time: 6.97 min
End Time: 8.51 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator



Collected by: N/A
Electronic Signature: no
Operator: Administrator



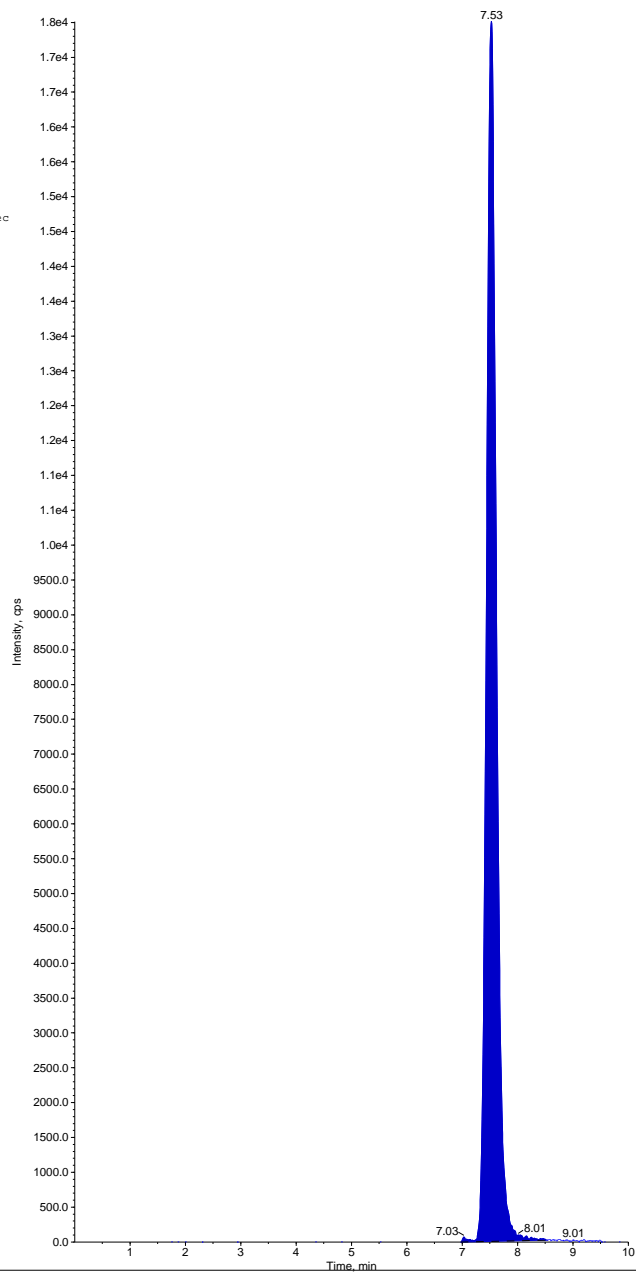
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'wg1321406-3' Sample ID: '' File: '191213a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: 'ms, L1957339-11, 100ul of 1912095.00ppb' Annotation: ''

Sample Index: 5
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/13/2019
Acq. Time: 11:36:53 AM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.53 min
Area: 220000 counts
Height: 17500 cps
Start Time: 6.97 min
End Time: 8.52 min



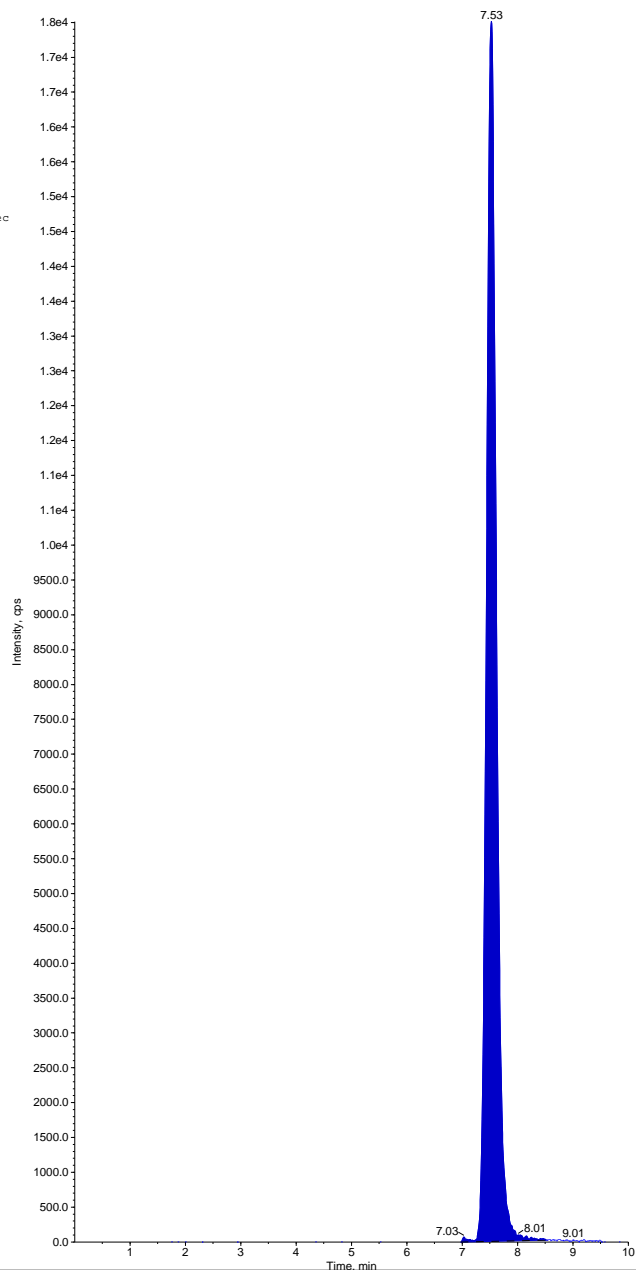
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'wg1321406-3' Sample ID: '' File: '191213a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: 'ms, L1957339-11, 100ul of 1912095.00ppb' Annotation: ''

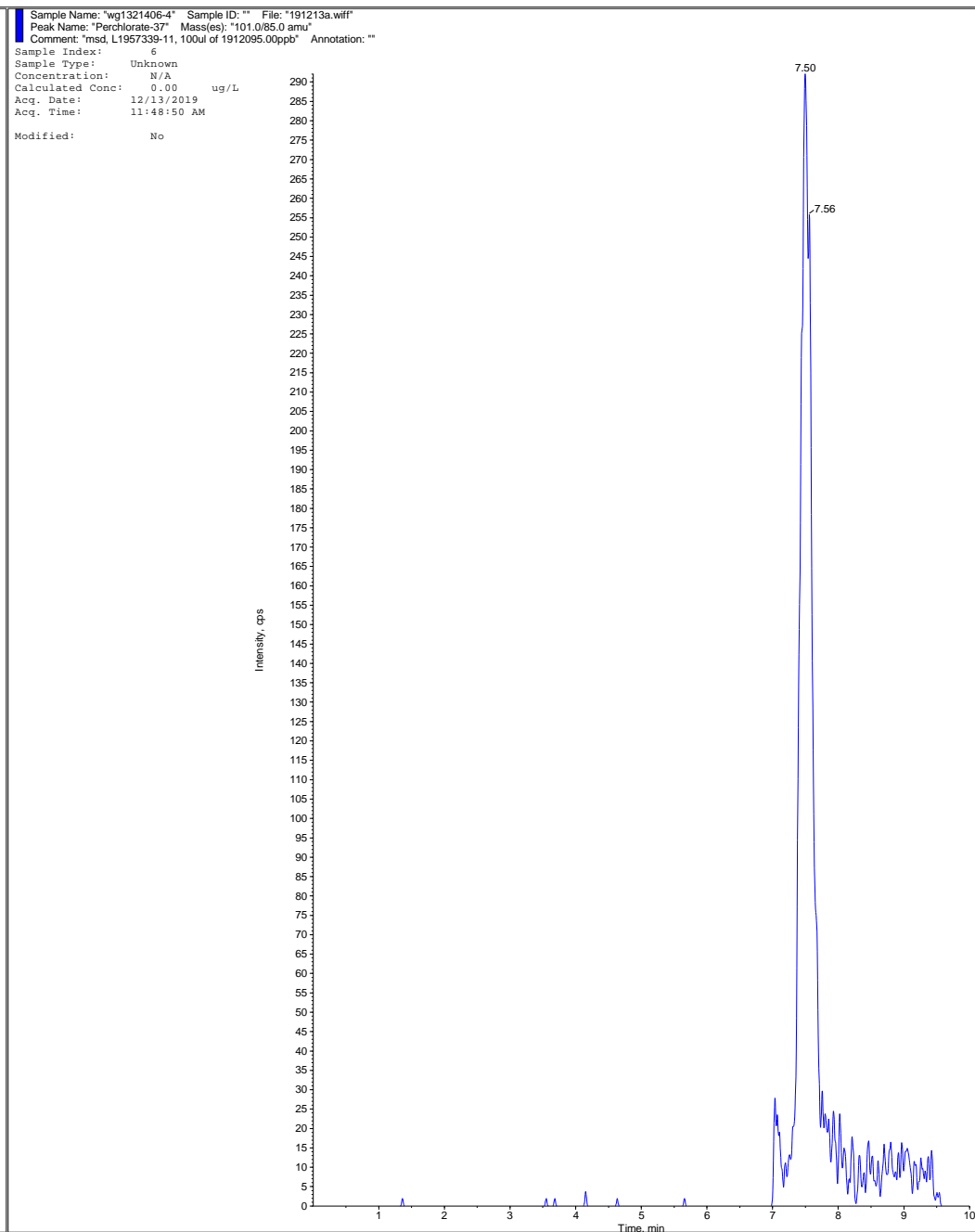
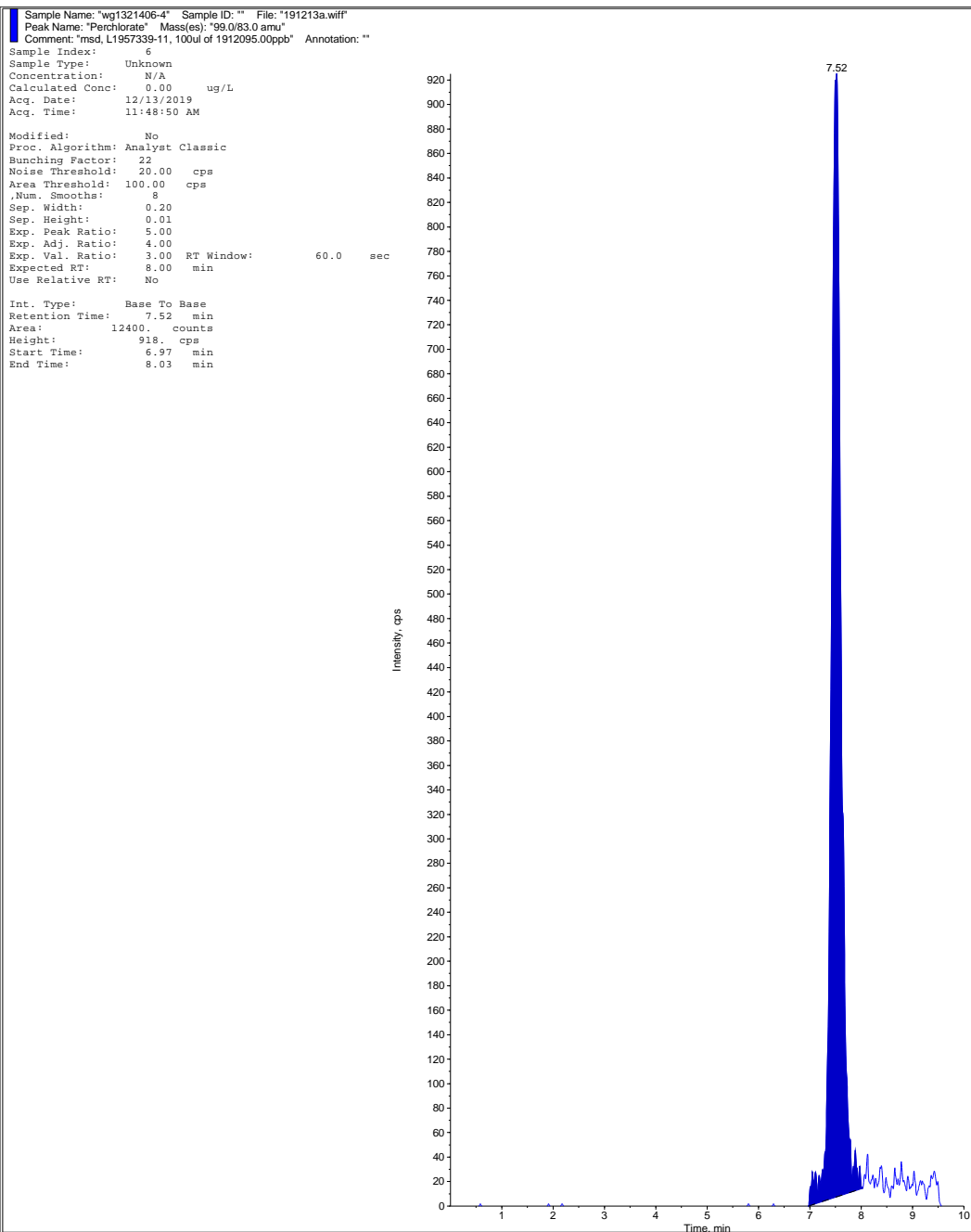
Sample Index: 5
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/13/2019
Acq. Time: 11:36:53 AM

Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

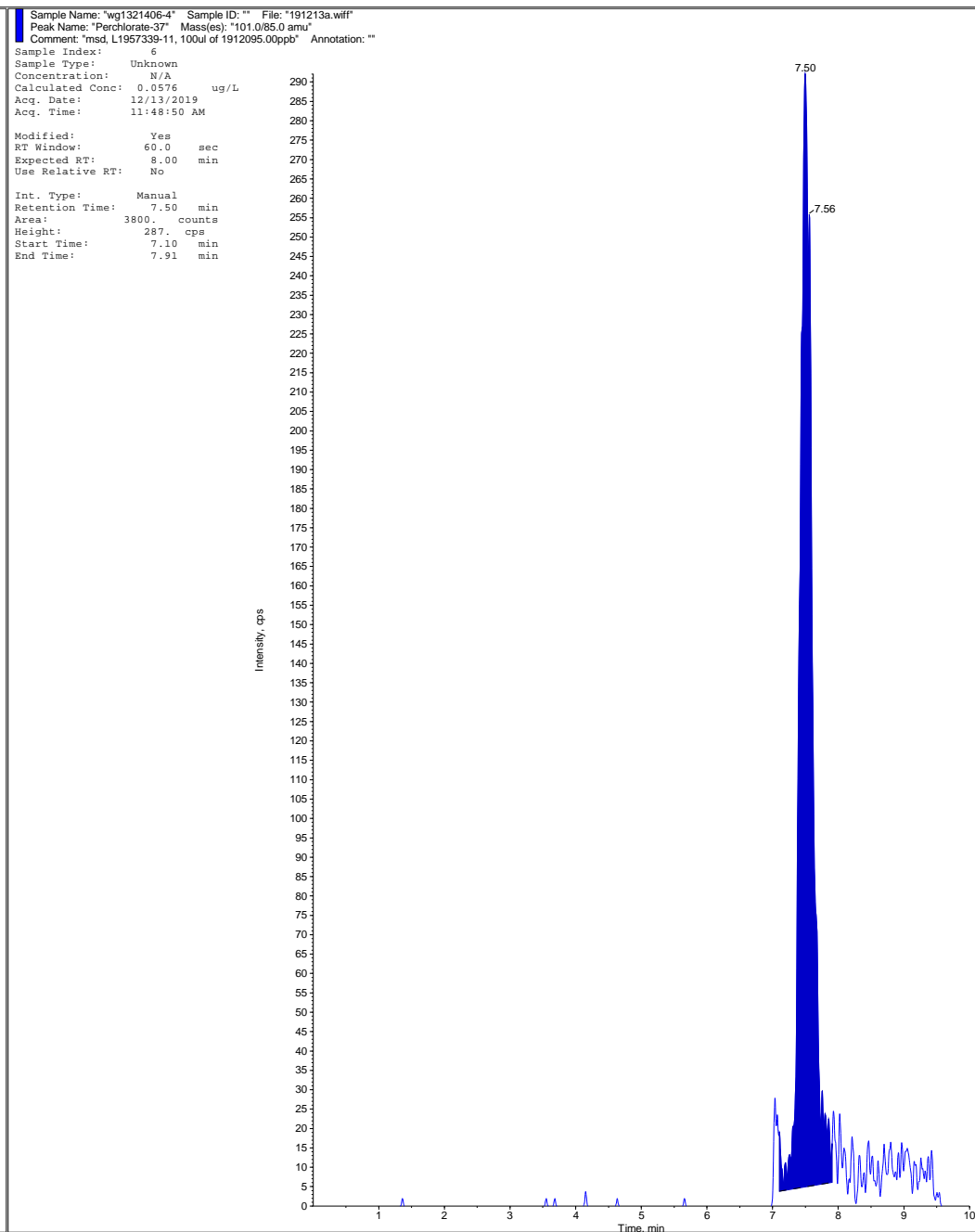
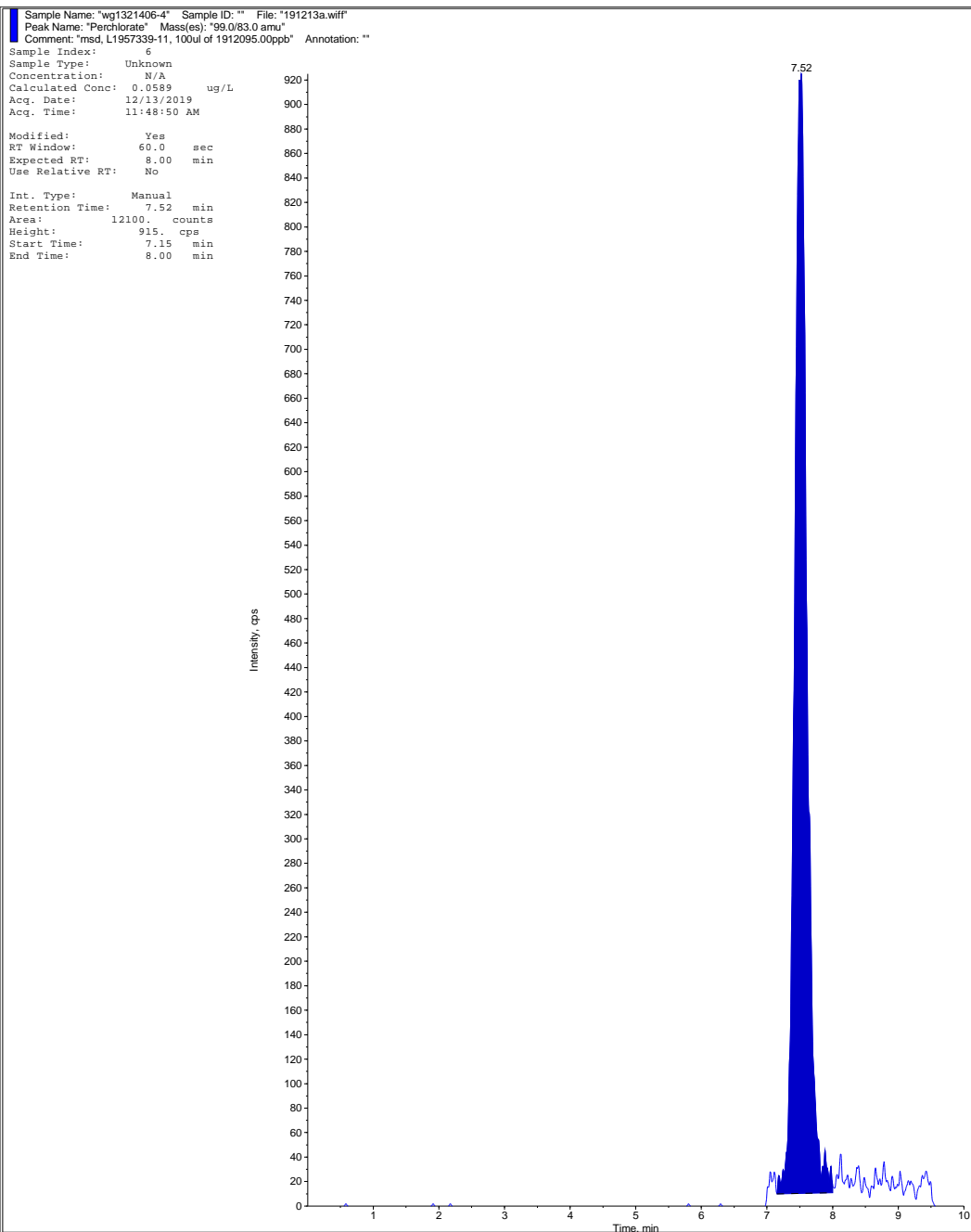
Int. Type: Base To Base
Retention Time: 7.53 min
Area: 220000 counts
Height: 17500 cps
Start Time: 6.97 min
End Time: 8.52 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator

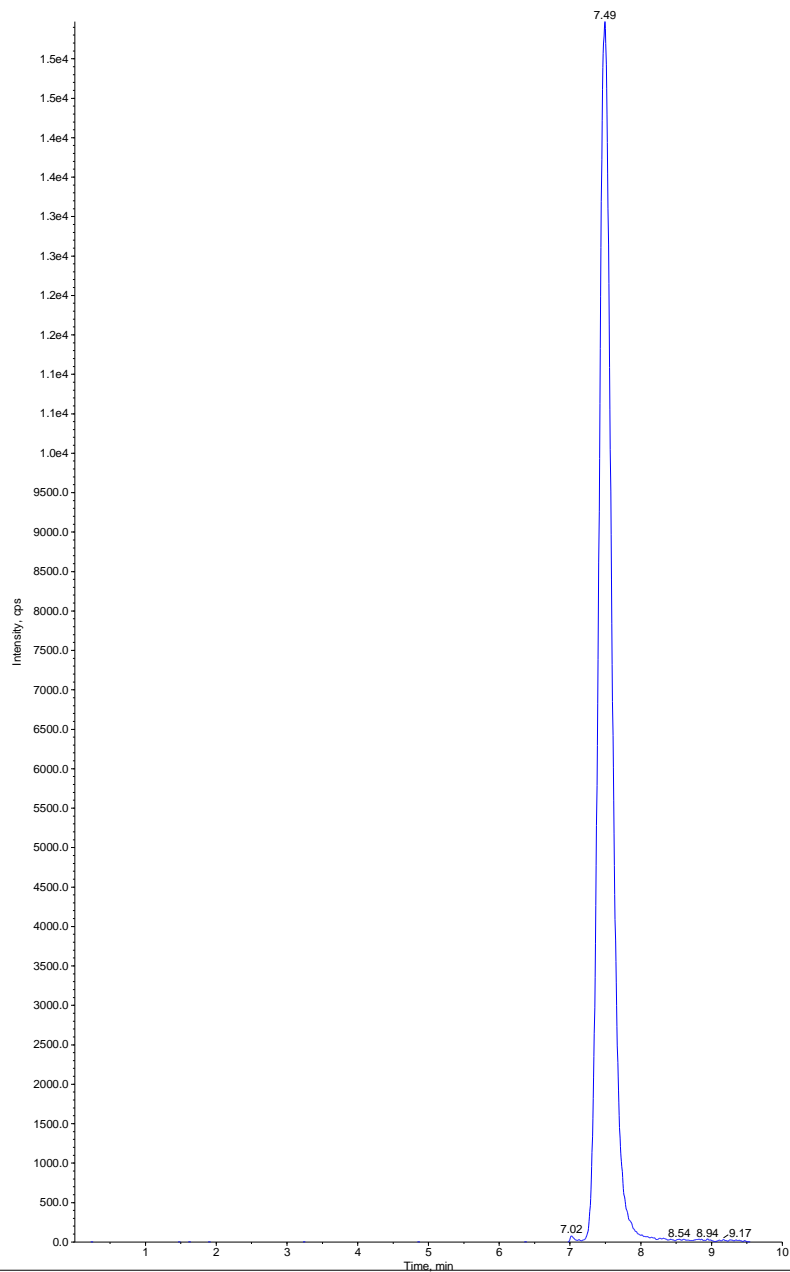


Collected by: N/A
Electronic Signature: no
Operator: Administrator



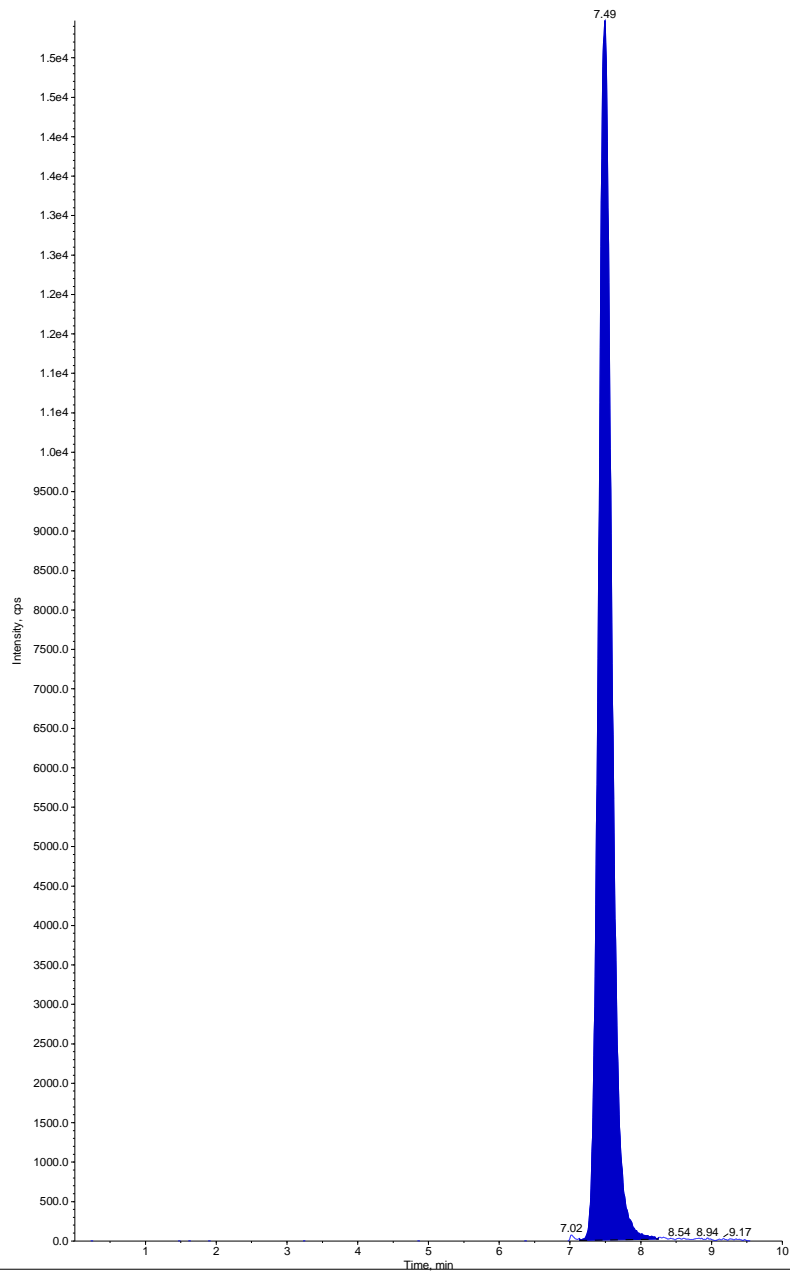
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'wg1321406-4' Sample ID: '' File: '191213a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: 'msd.L1957339-11, 100ul of 1912095.00ppb' Annotation: ''
Sample Index: 6
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/13/2019
Acq. Time: 11:48:50 AM
Modified: No



Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'wg1321406-4' Sample ID: '' File: '191213a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: 'msd.L1957339-11, 100ul of 1912095.00ppb' Annotation: ''
Sample Index: 6
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/13/2019
Acq. Time: 11:48:50 AM
Modified: Yes
RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No
Int. Type: Manual
Retention Time: 7.49 min
Area: 200000 counts
Height: 15500 cps
Start Time: 7.13 min
End Time: 8.25 min



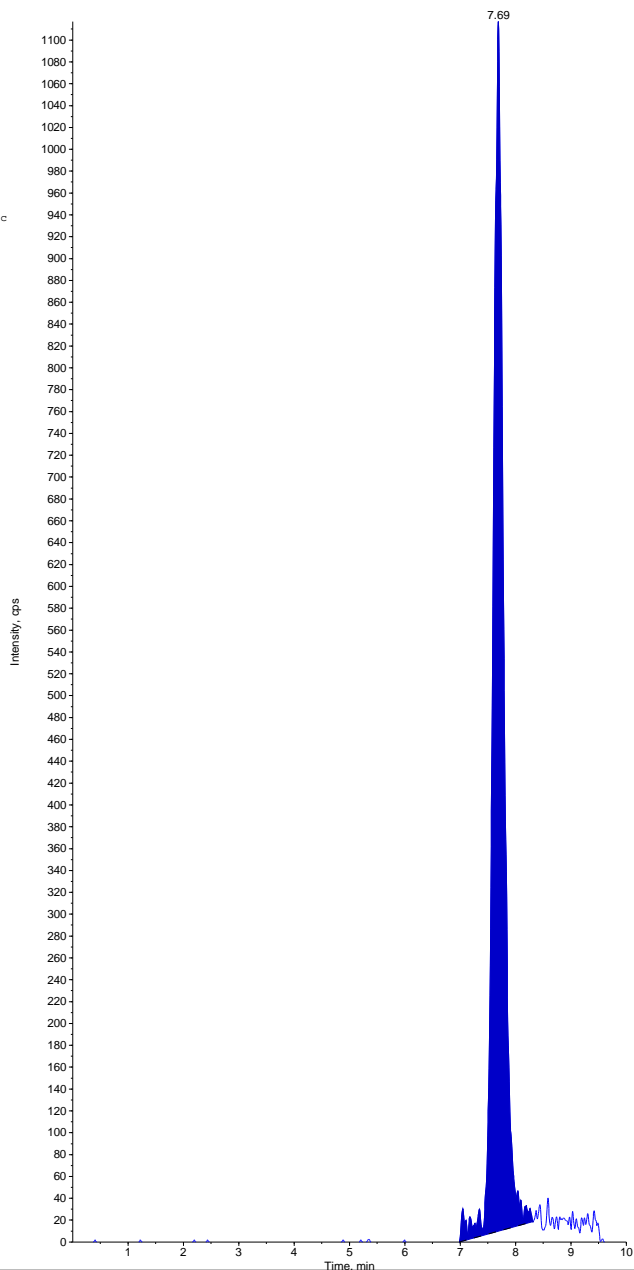
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'wg1321415-3' Sample ID: '' File: '191213a.wiff'
Peak Name: 'Perchlorate' Mass(es): '99.0/83.0 amu'
Comment: 'ms, L1957339-19, 100ul of 190213QCSSTOCK#2' Annotation: ''

Sample Index: 7
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.0679 ug/L
Acq. Date: 12/13/2019
Acq. Time: 12:00:48 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 22
Noise Threshold: 20.00 cps
Area Threshold: 100.00 cps
,Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.69 min
Area: 15000 counts
Height: 1110 cps
Start Time: 6.98 min
End Time: 8.31 min

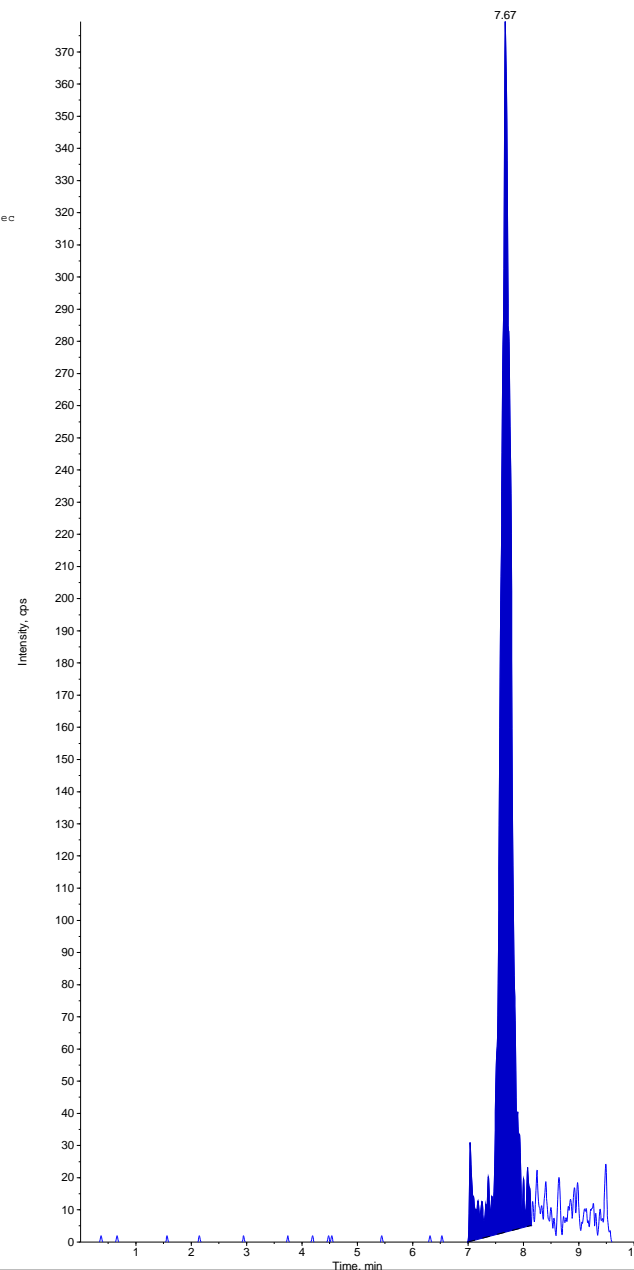


Sample Name: 'wg1321415-3' Sample ID: '' File: '191213a.wiff'
Peak Name: 'Perchlorate-37' Mass(es): '101.0/85.0 amu'
Comment: 'ms, L1957339-19, 100ul of 190213QCSSTOCK#2' Annotation: ''

Sample Index: 7
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.0704 ug/L
Acq. Date: 12/13/2019
Acq. Time: 12:00:48 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 22
Noise Threshold: 20.00 cps
Area Threshold: 100.00 cps
,Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

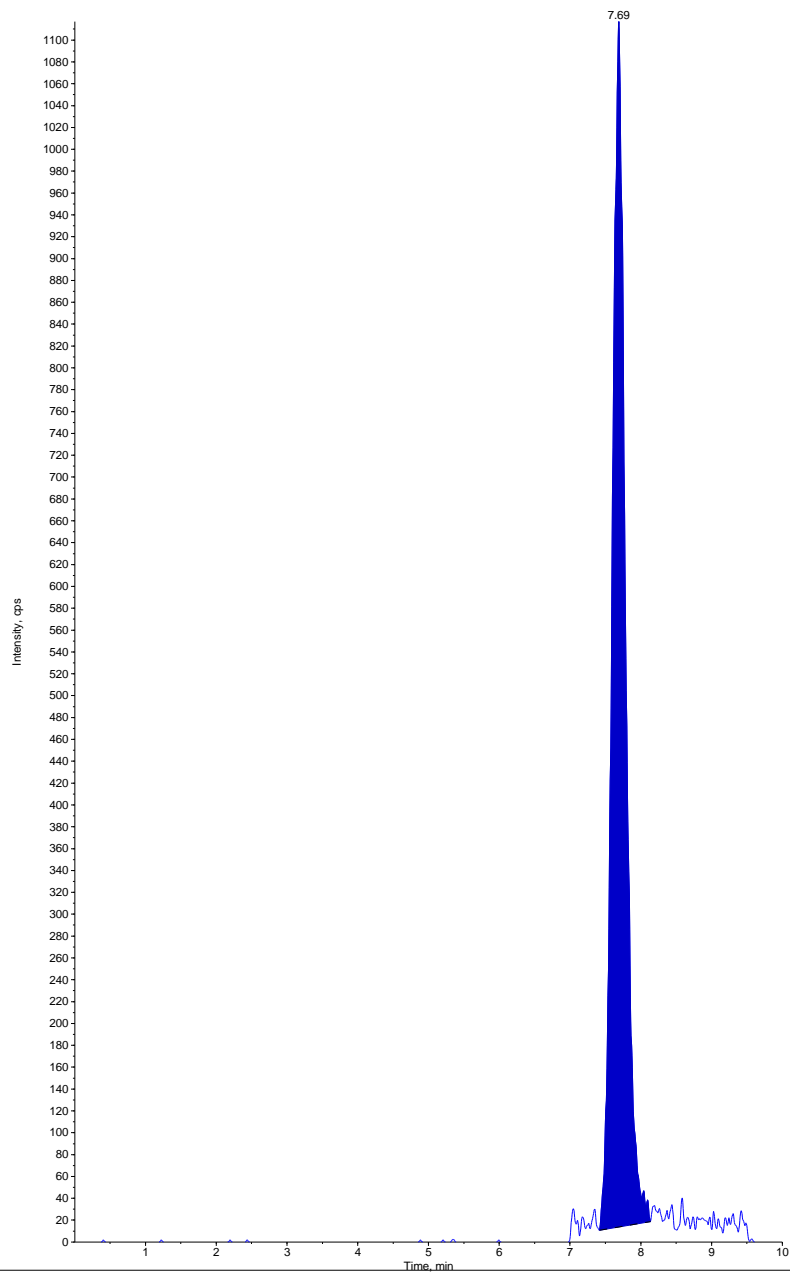
Int. Type: Base To Base
Retention Time: 7.67 min
Area: 5010 counts
Height: 377 cps
Start Time: 6.99 min
End Time: 8.14 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator

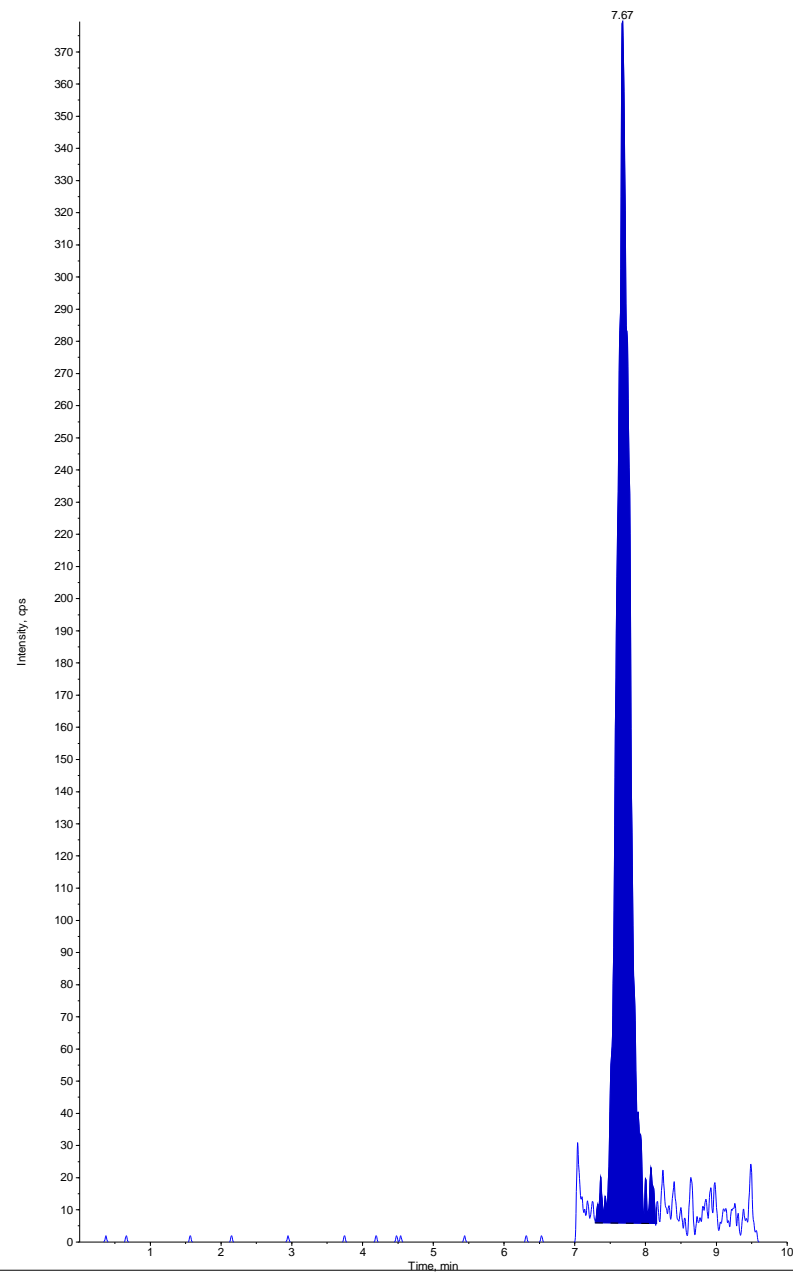
Sample Name: 'wg1321415-3' Sample ID: '' File: '191213a.wiff'
Peak Name: 'Perchlorate' Mass(es): '99.083.0 amu'
Comment: 'ms, L1957339-19, 100ul of 190213QCSSTOCK#2' Annotation: ''

Sample Index: 7
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.0651 ug/L
Acq. Date: 12/13/2019
Acq. Time: 12:00:48 PM
Modified: Yes
RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No
Int. Type: Manual
Retention Time: 7.69 min
Area: 14400 counts
Height: 1100 cps
Start Time: 7.42 min
End Time: 8.14 min



Sample Name: 'wg1321415-3' Sample ID: '' File: '191213a.wiff'
Peak Name: 'Perchlorate-37' Mass(es): '101.085.0 amu'
Comment: 'ms, L1957339-19, 100ul of 190213QCSSTOCK#2' Annotation: ''

Sample Index: 7
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.0656 ug/L
Acq. Date: 12/13/2019
Acq. Time: 12:00:48 PM
Modified: Yes
RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No
Int. Type: Manual
Retention Time: 7.67 min
Area: 4670 counts
Height: 374 cps
Start Time: 7.29 min
End Time: 8.16 min



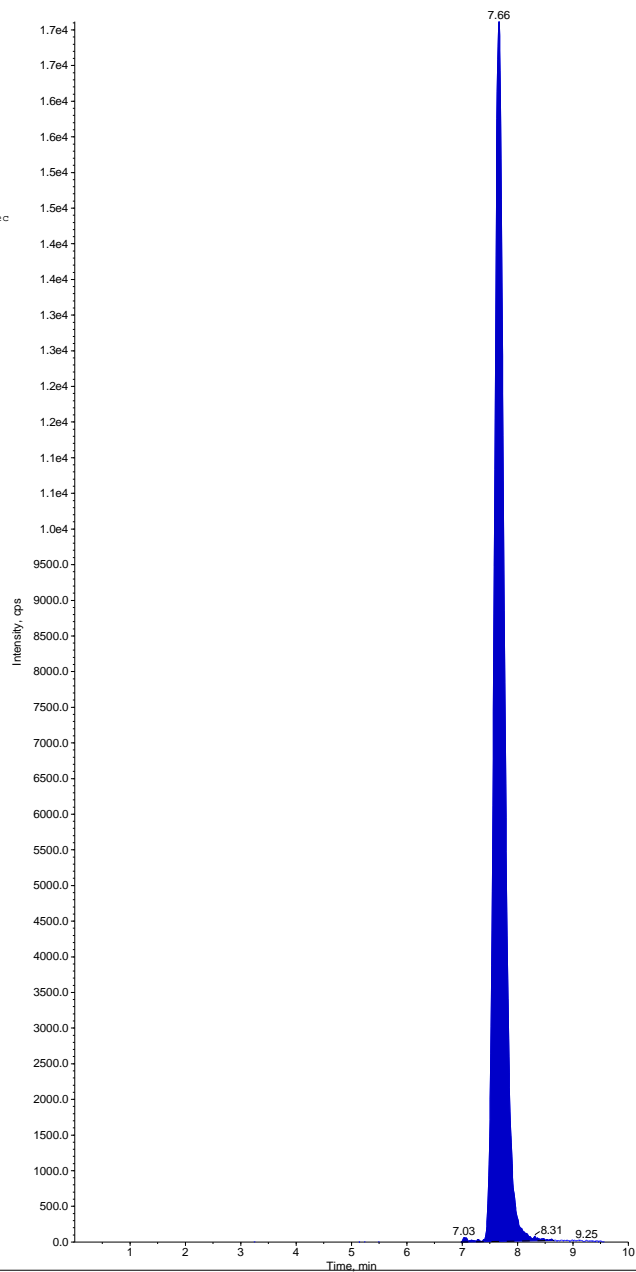
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'wg1321415-3' Sample ID: '' File: '191213a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: 'ms, L1957339-19, 100ul of 190213QCSSTOCK#2' Annotation: ''

Sample Index: 7
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/13/2019
Acq. Time: 12:00:48 PM

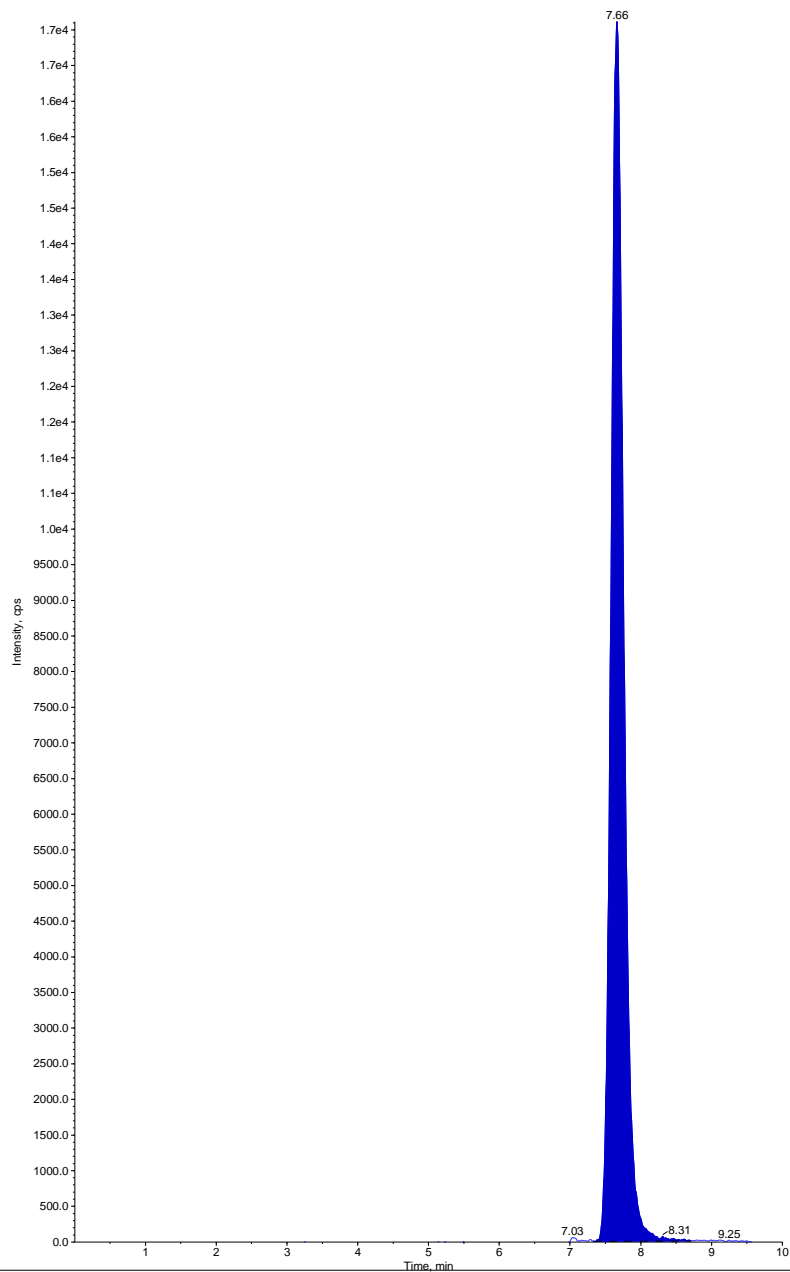
Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.66 min
Area: 217000 counts
Height: 17100 cps
Start Time: 6.97 min
End Time: 8.65 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'wg1321415-3' Sample ID: '' File: '191213a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: 'ms, L1957339-19, 100ul of 190213QCSSTOCK#2' Annotation: ''
Sample Index: 7
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/13/2019
Acq. Time: 12:00:48 PM
Modified: Yes
RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No
Int. Type: Manual
Retention Time: 7.66 min
Area: 216000 counts
Height: 17100 cps
Start Time: 7.34 min
End Time: 8.71 min

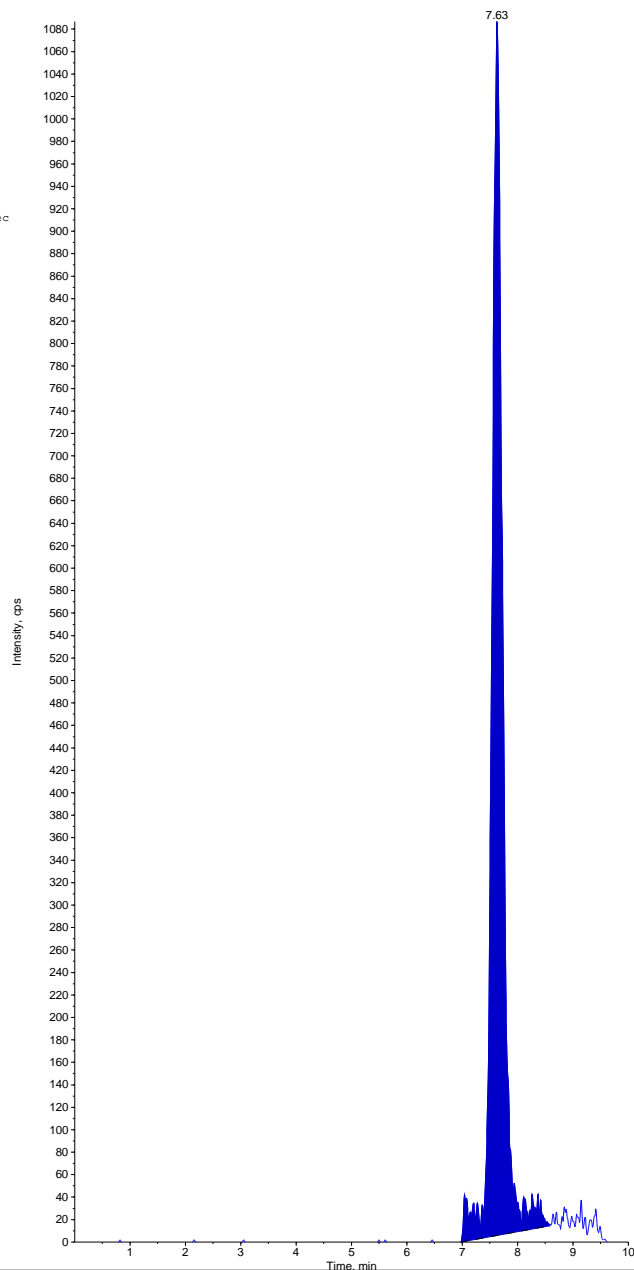


Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "wg1321415-4" Sample ID: "" File: "191213a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.083.0 amu"
Comment: "msd.L1957339-19, 100ul of 190213QCSSTOCK#2" Annotation: ""
Sample Index: 8
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.0648 ug/L
Acq. Date: 12/13/2019
Acq. Time: 12:12:45 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 22
Noise Threshold: 20.00 cps
Area Threshold: 100.00 cps
,Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

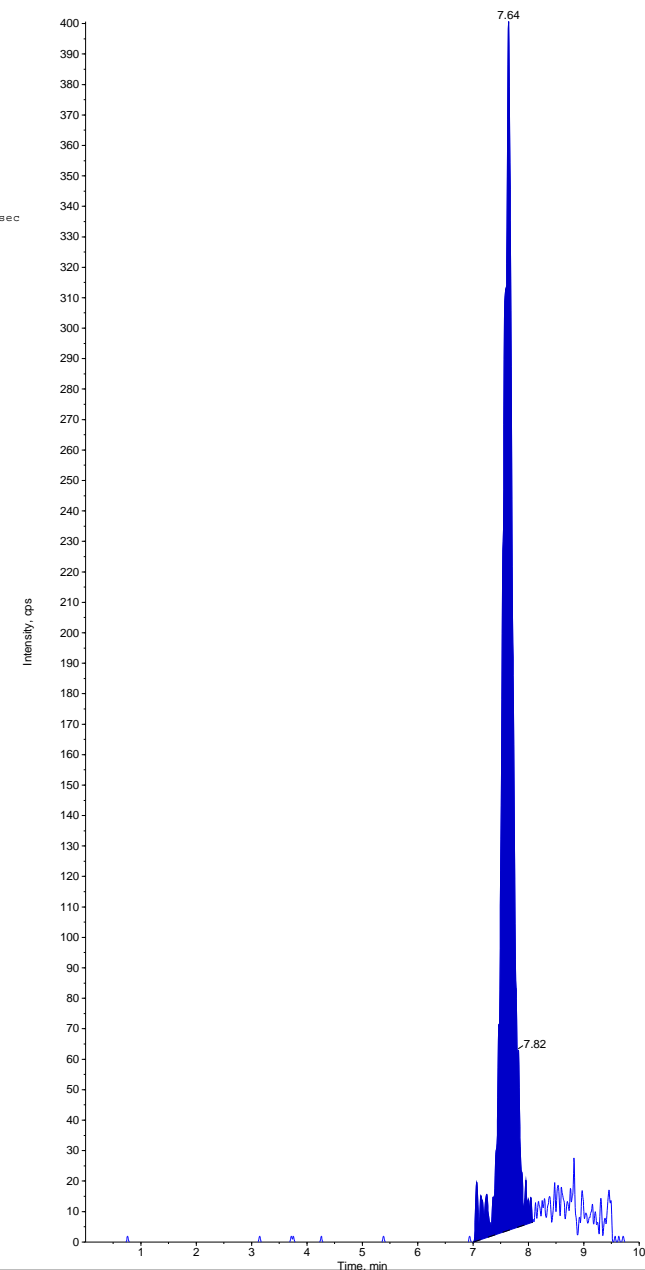
Int. Type: Base To Base
Retention Time: 7.63 min
Area: 15200 counts
Height: 1080 cps
Start Time: 6.97 min
End Time: 8.58 min



Sample Name: "wg1321415-4" Sample ID: "" File: "191213a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.085.0 amu"
Comment: "msd.L1957339-19, 100ul of 190213QCSSTOCK#2" Annotation: ""
Sample Index: 8
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.0668 ug/L
Acq. Date: 12/13/2019
Acq. Time: 12:12:45 PM

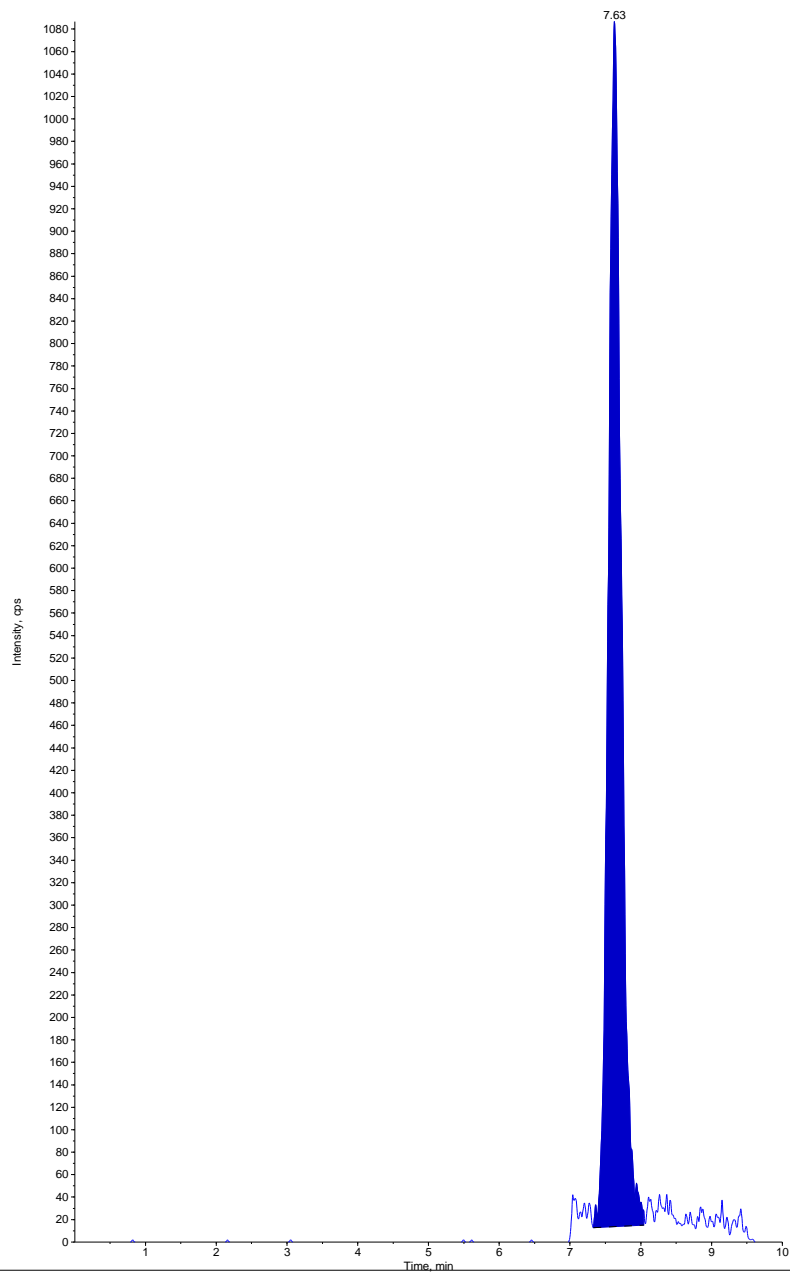
Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 22
Noise Threshold: 20.00 cps
Area Threshold: 100.00 cps
,Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.64 min
Area: 5050 counts
Height: 397 cps
Start Time: 7.01 min
End Time: 8.07 min

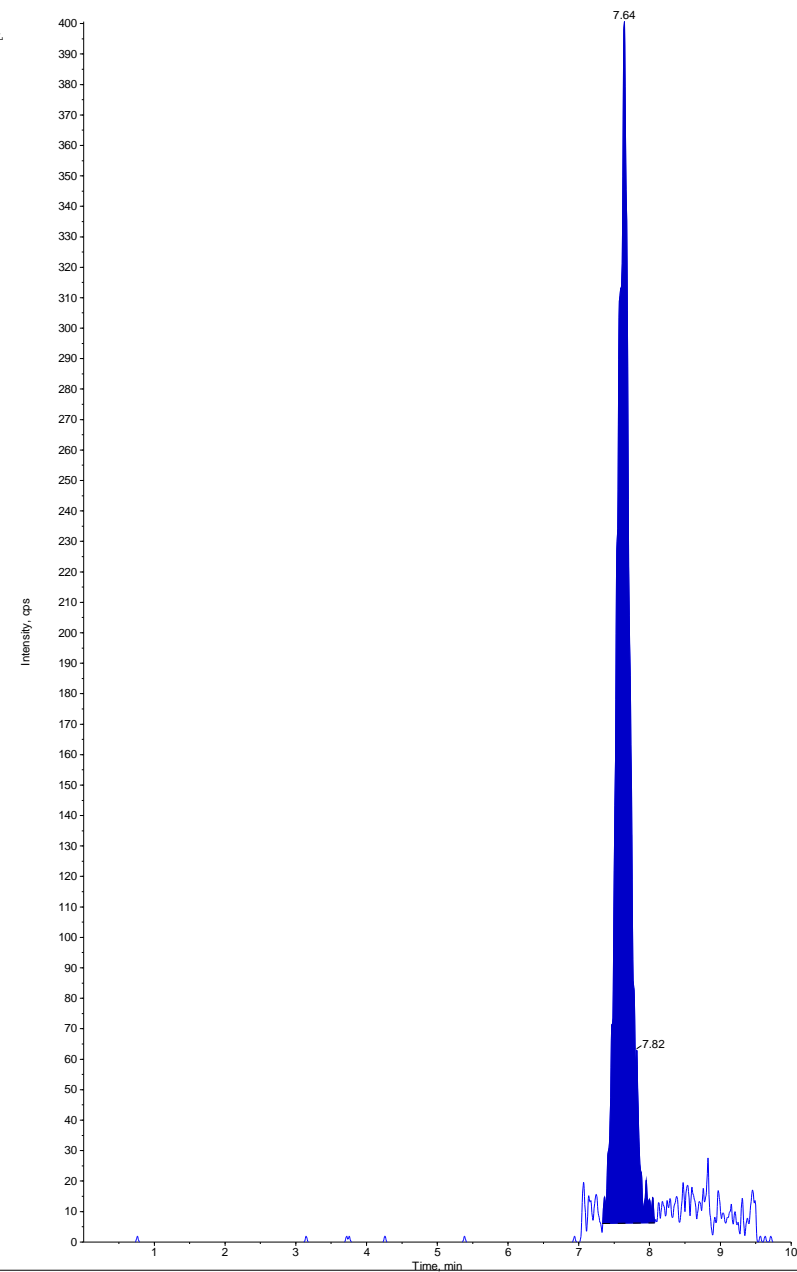


Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "wg1321415-4" Sample ID: "" File: "191213a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.083.0 amu"
Comment: "msd.L1957339-19, 100ul of 190213QCSSTOCK#2" Annotation: ""
Sample Index: 8
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.0589 ug/L
Acq. Date: 12/13/2019
Acq. Time: 12:12:45 PM
Modified: Yes
RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No
Int. Type: Manual
Retention Time: 7.63 min
Area: 13900. counts
Height: 1070. cps
Start Time: 7.33 min
End Time: 8.04 min



Sample Name: "wg1321415-4" Sample ID: "" File: "191213a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.085.0 amu"
Comment: "msd.L1957339-19, 100ul of 190213QCSSTOCK#2" Annotation: ""
Sample Index: 8
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.0633 ug/L
Acq. Date: 12/13/2019
Acq. Time: 12:12:45 PM
Modified: Yes
RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No
Int. Type: Manual
Retention Time: 7.64 min
Area: 4790. counts
Height: 395. cps
Start Time: 7.33 min
End Time: 8.07 min



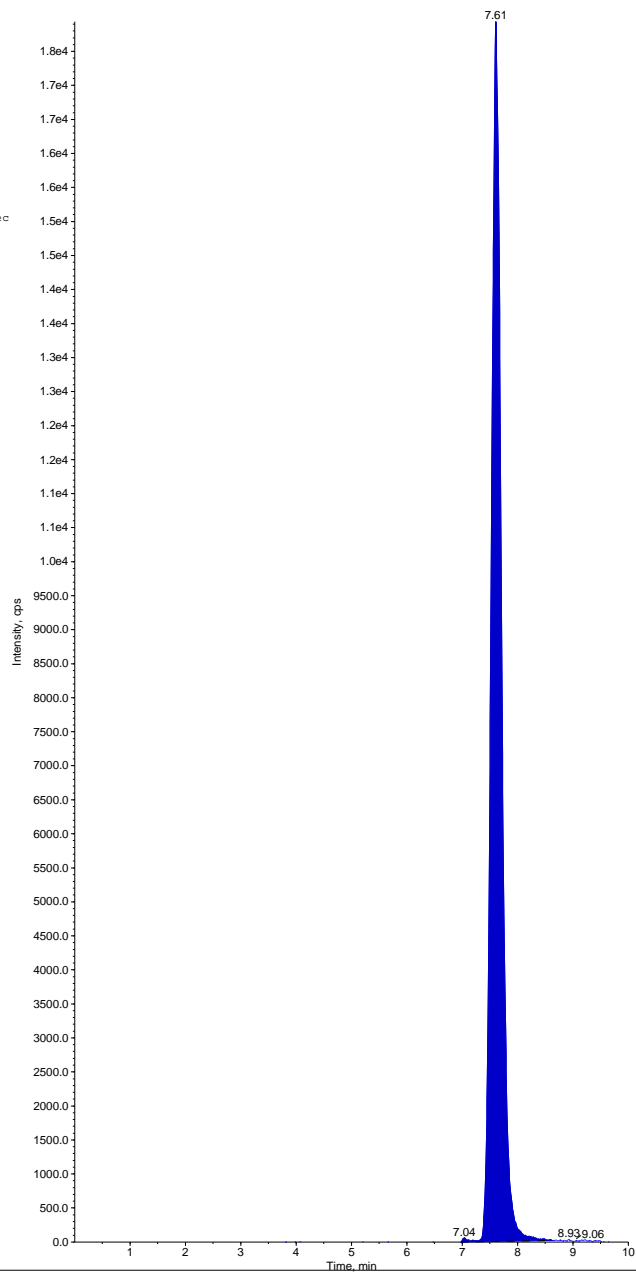
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'wg1321415-4' Sample ID: '' File: '191213a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.088.0 amu'
Comment: 'msd.L1957339-19, 100ul of 190213QCSSTOCK#2' Annotation: ''

Sample Index: 8
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/13/2019
Acq. Time: 12:12:45 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.61 min
Area: 230000 counts
Height: 17900 cps
Start Time: 6.97 min
End Time: 8.64 min



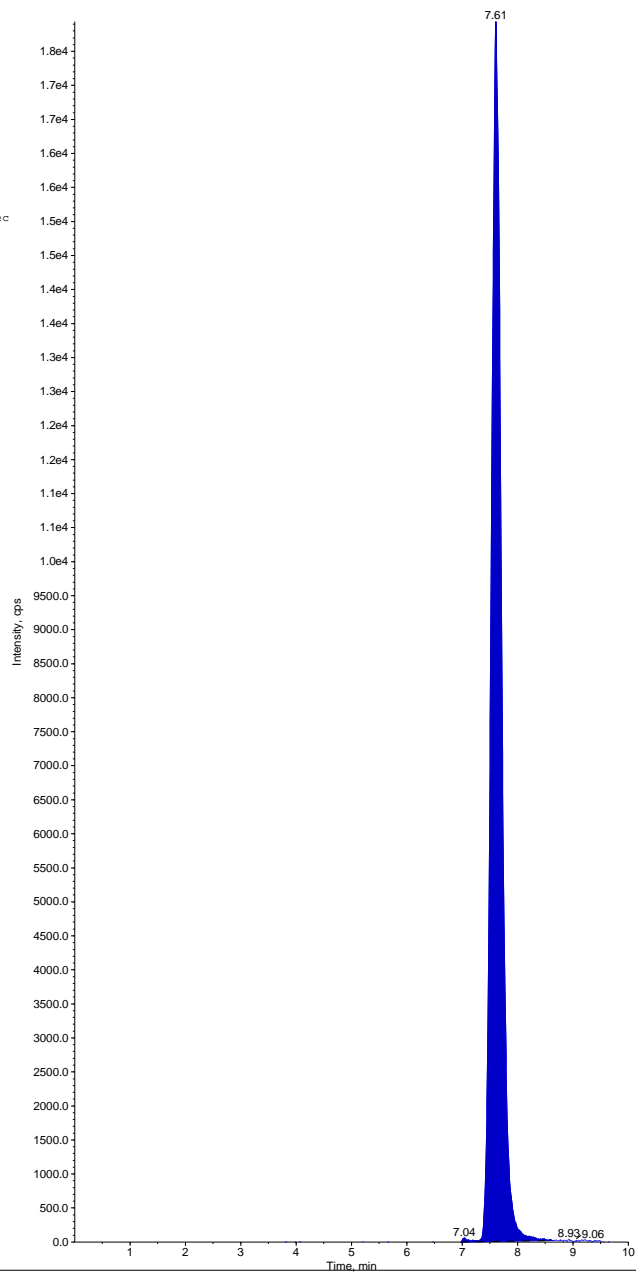
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'wg1321415-4' Sample ID: '' File: '191213a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.088.0 amu'
Comment: 'msd.L1957339-19, 100ul of 190213QCSSTOCK#2' Annotation: ''

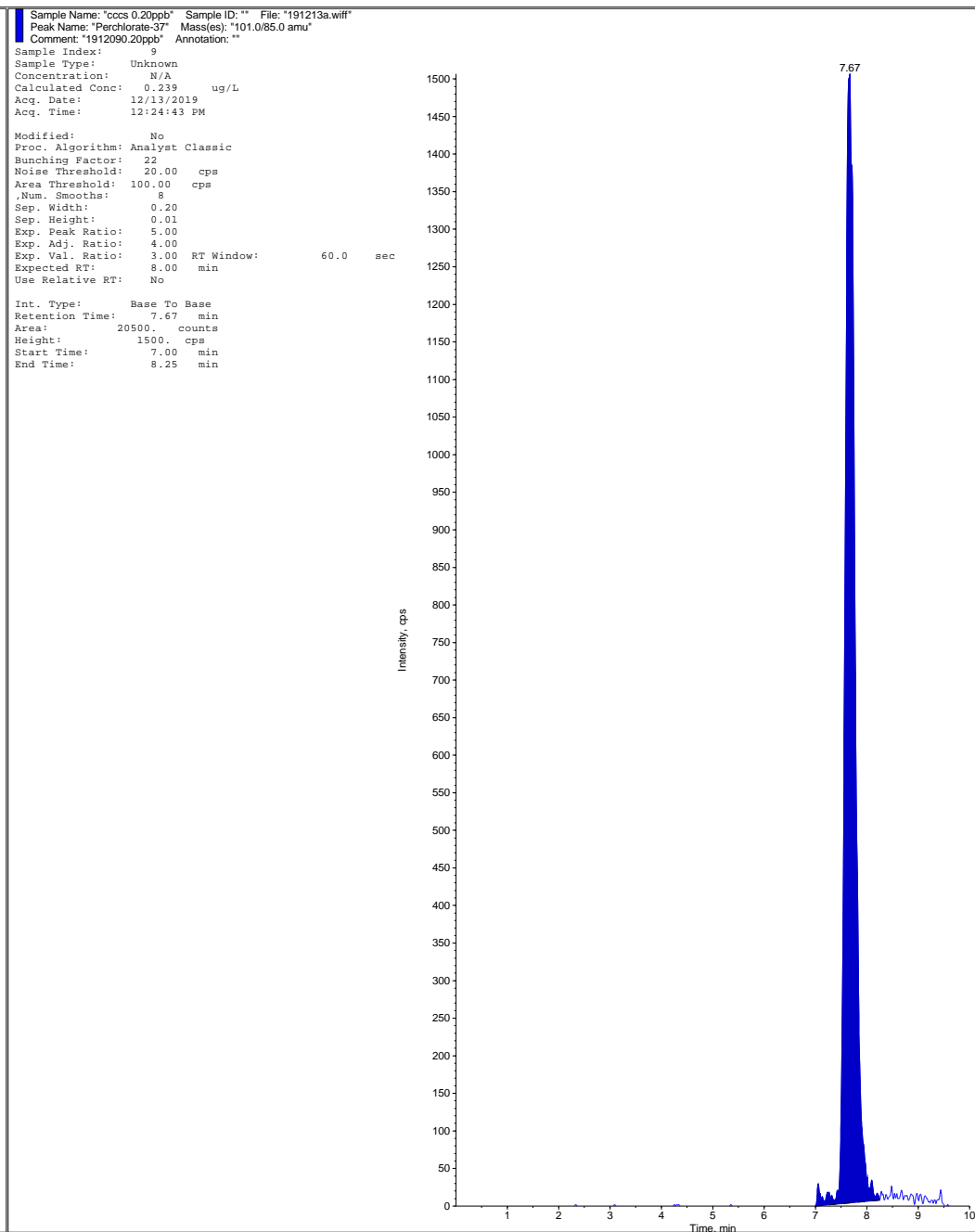
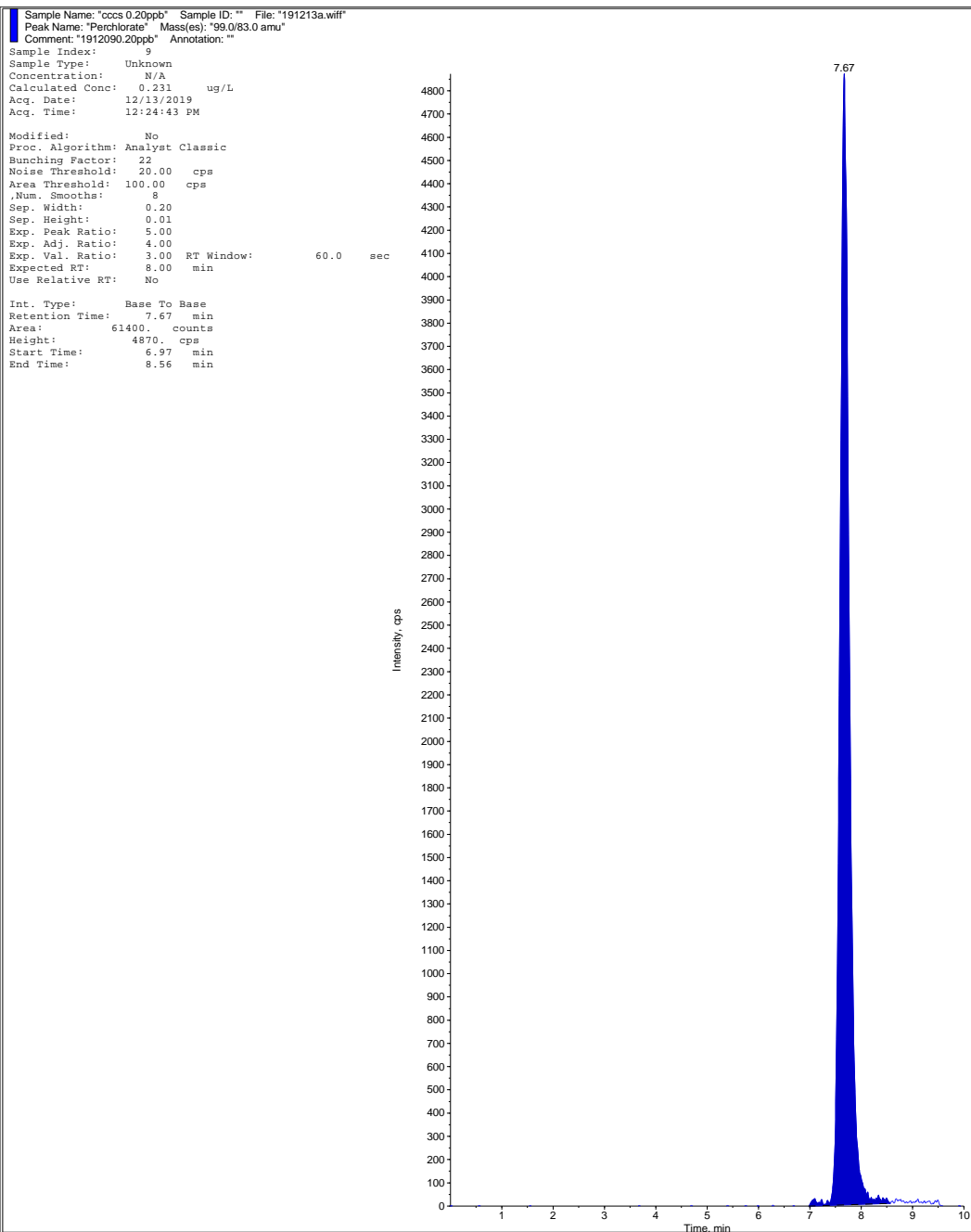
Sample Index: 8
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/13/2019
Acq. Time: 12:12:45 PM

Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

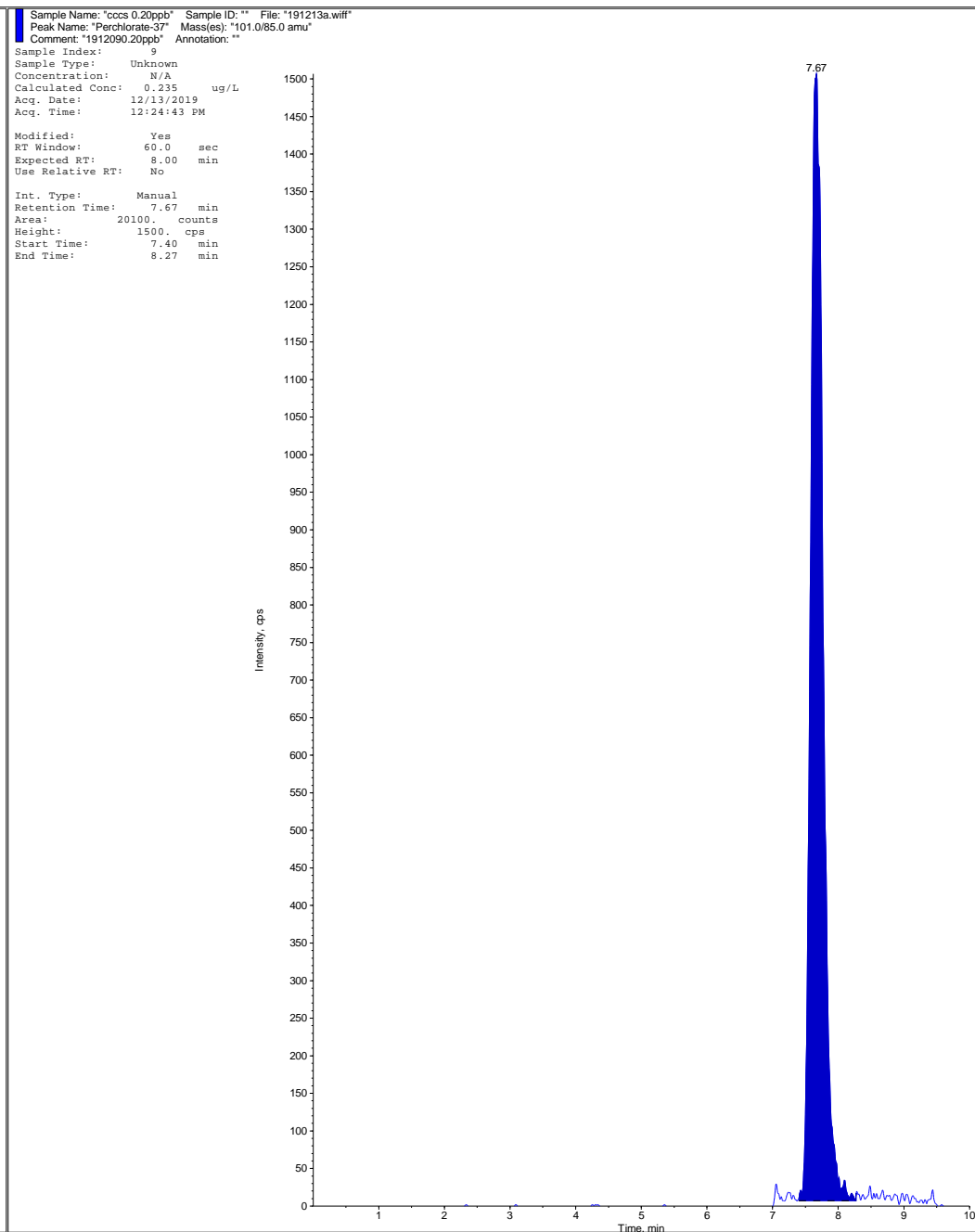
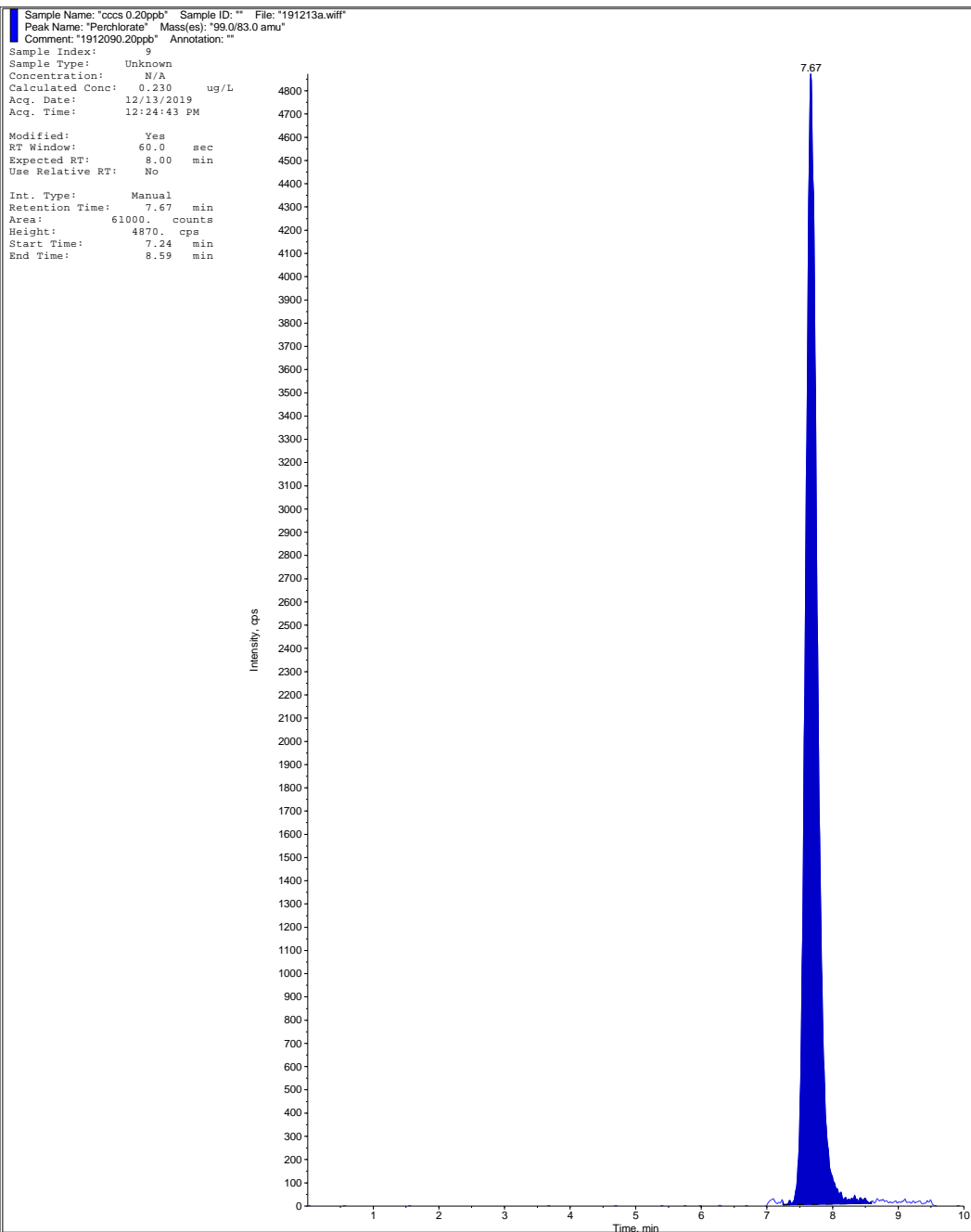
Int. Type: Base To Base
Retention Time: 7.61 min
Area: 230000 counts
Height: 17900 cps
Start Time: 6.97 min
End Time: 8.64 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator



Collected by: N/A
Electronic Signature: no
Operator: Administrator



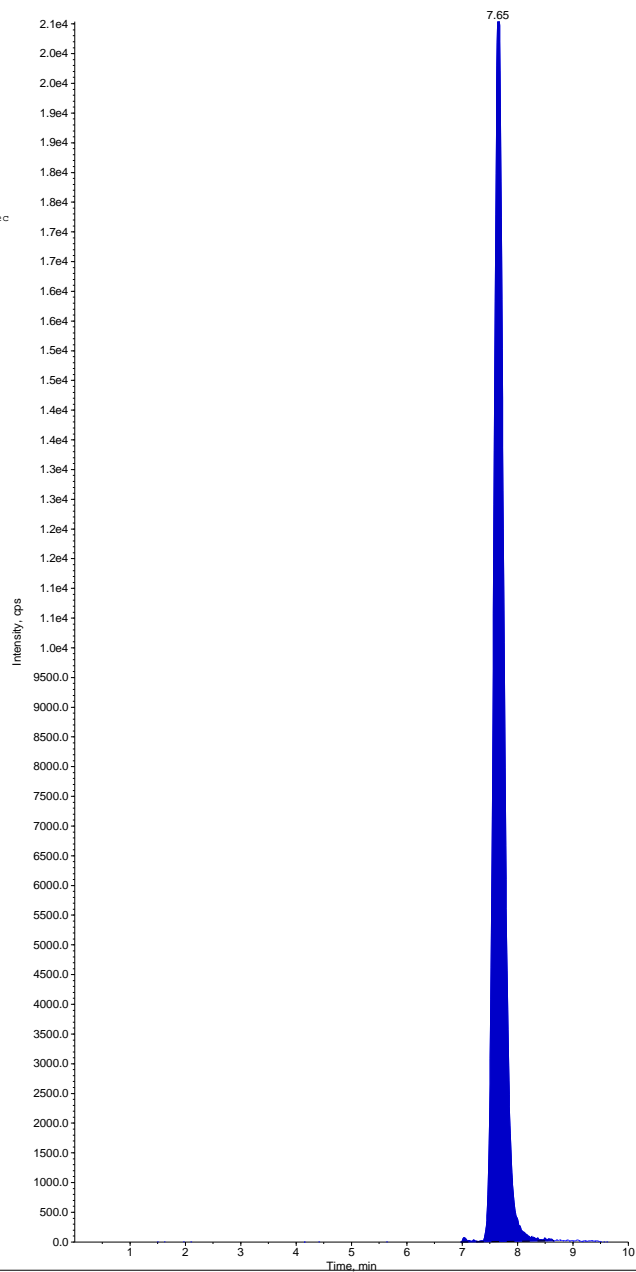
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'cccc 0.20ppb' Sample ID: '' File: '191213a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: '1912090.20ppb' Annotation: ''

Sample Index: 9
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/13/2019
Acq. Time: 12:24:43 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.65 min
Area: 265000 counts
Height: 20500 cps
Start Time: 6.97 min
End Time: 8.65 min



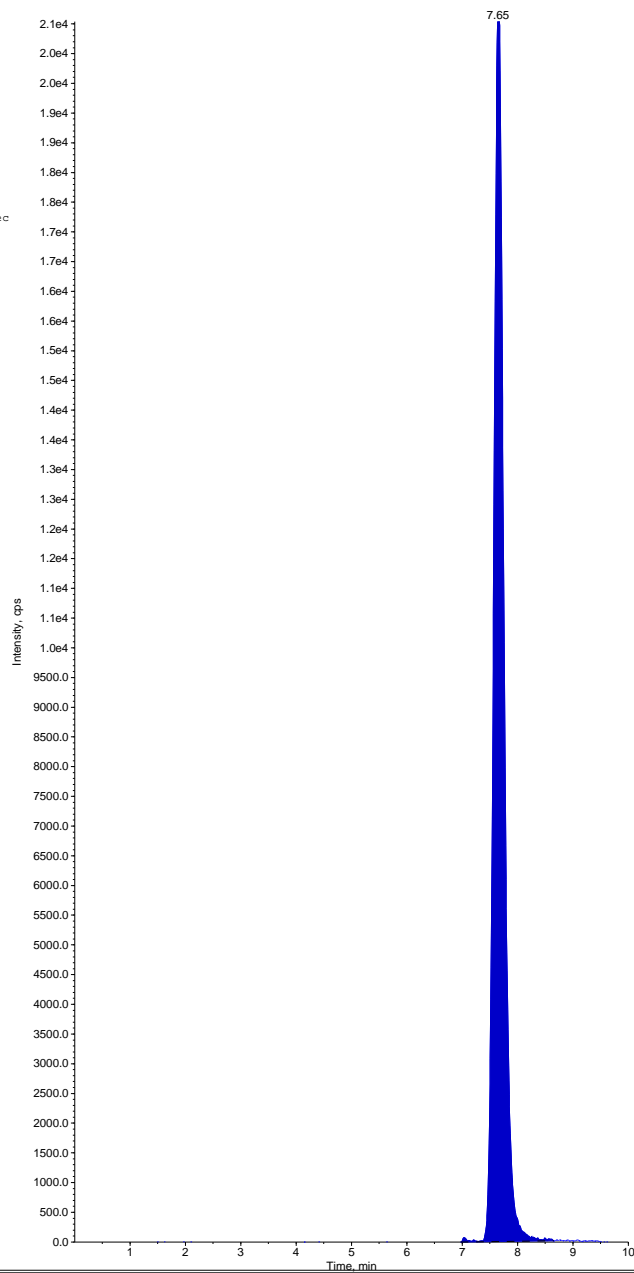
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'cccs 0.20ppb' Sample ID: '' File: '191213a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: '1912090.20ppb' Annotation: ''

Sample Index: 9
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/13/2019
Acq. Time: 12:24:43 PM

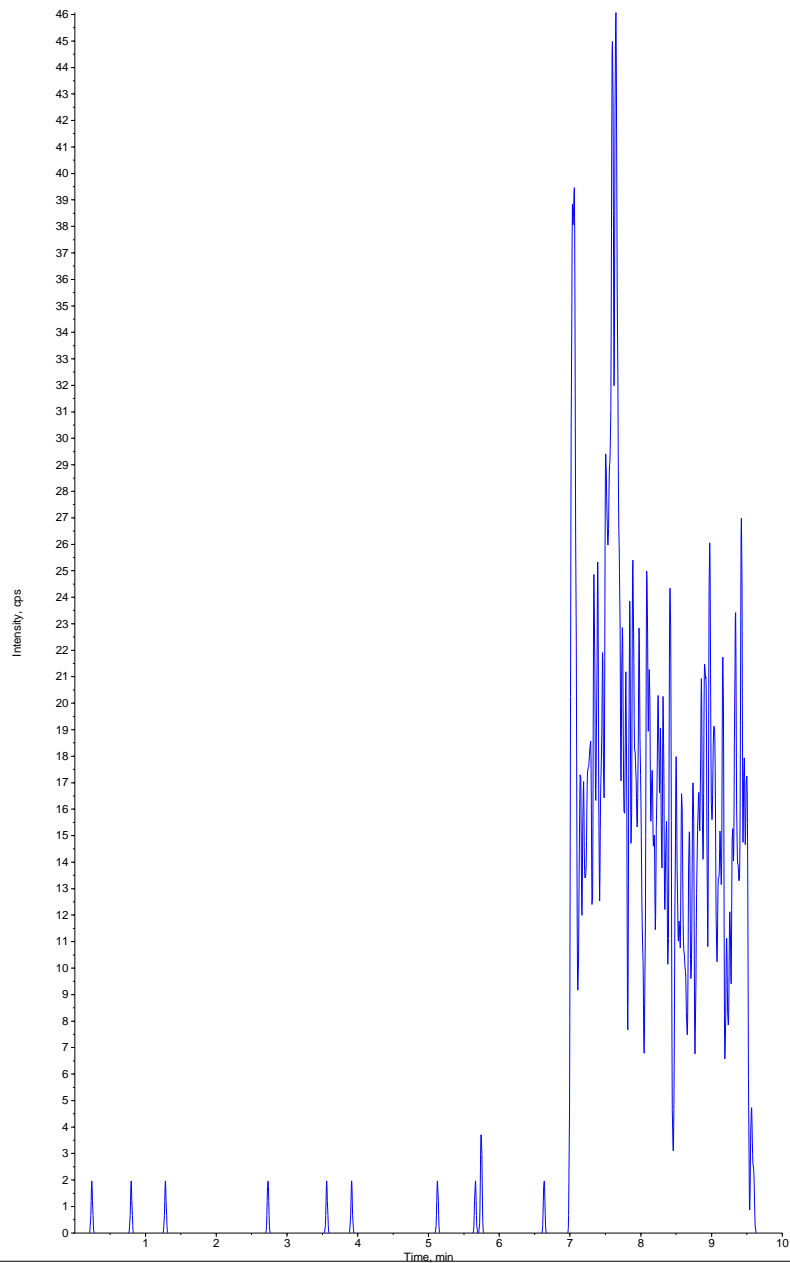
Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.65 min
Area: 265000 counts
Height: 20500 cps
Start Time: 6.97 min
End Time: 8.65 min

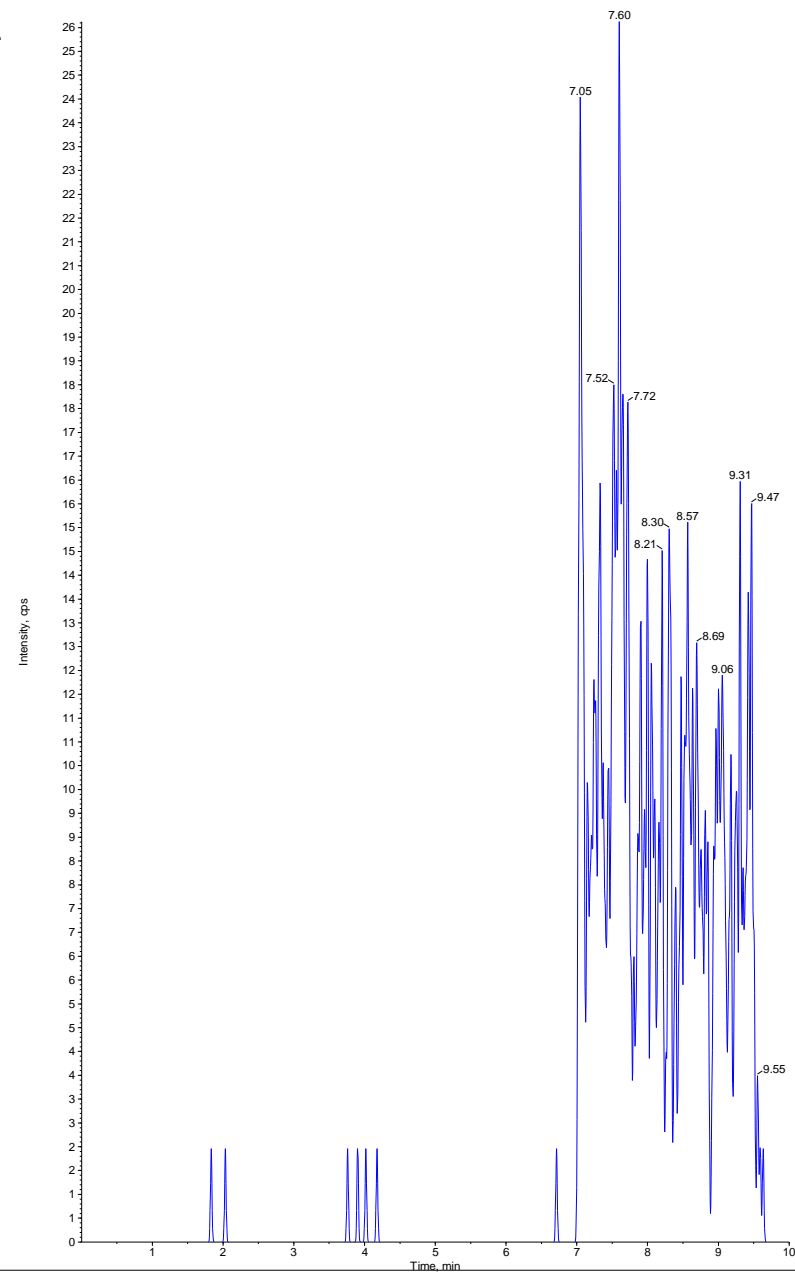


Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "blank04 is" Sample ID: "" File: "191213a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "" Annotation: ""
Sample Index: 10
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/13/2019
Acq. Time: 12:36:41 PM
Modified: No

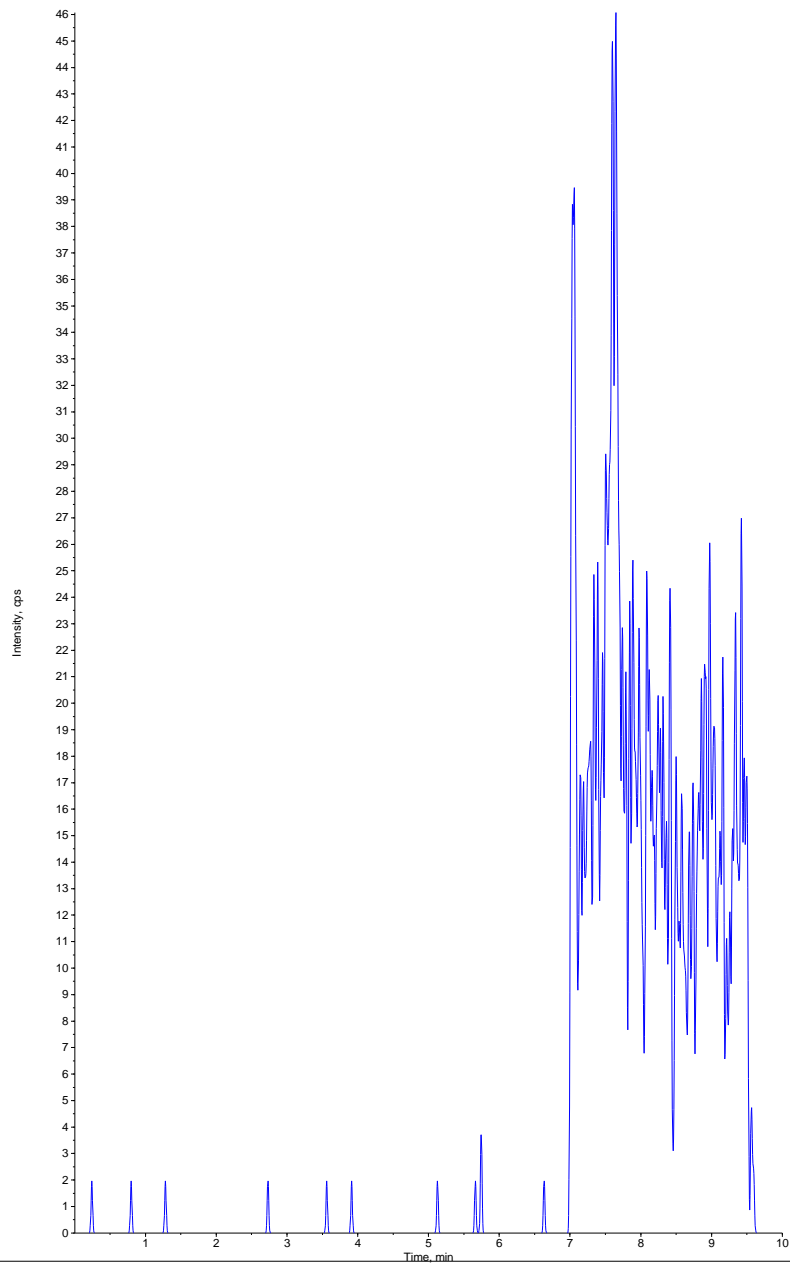


Sample Name: "blank04 is" Sample ID: "" File: "191213a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "" Annotation: ""
Sample Index: 10
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/13/2019
Acq. Time: 12:36:41 PM
Modified: No

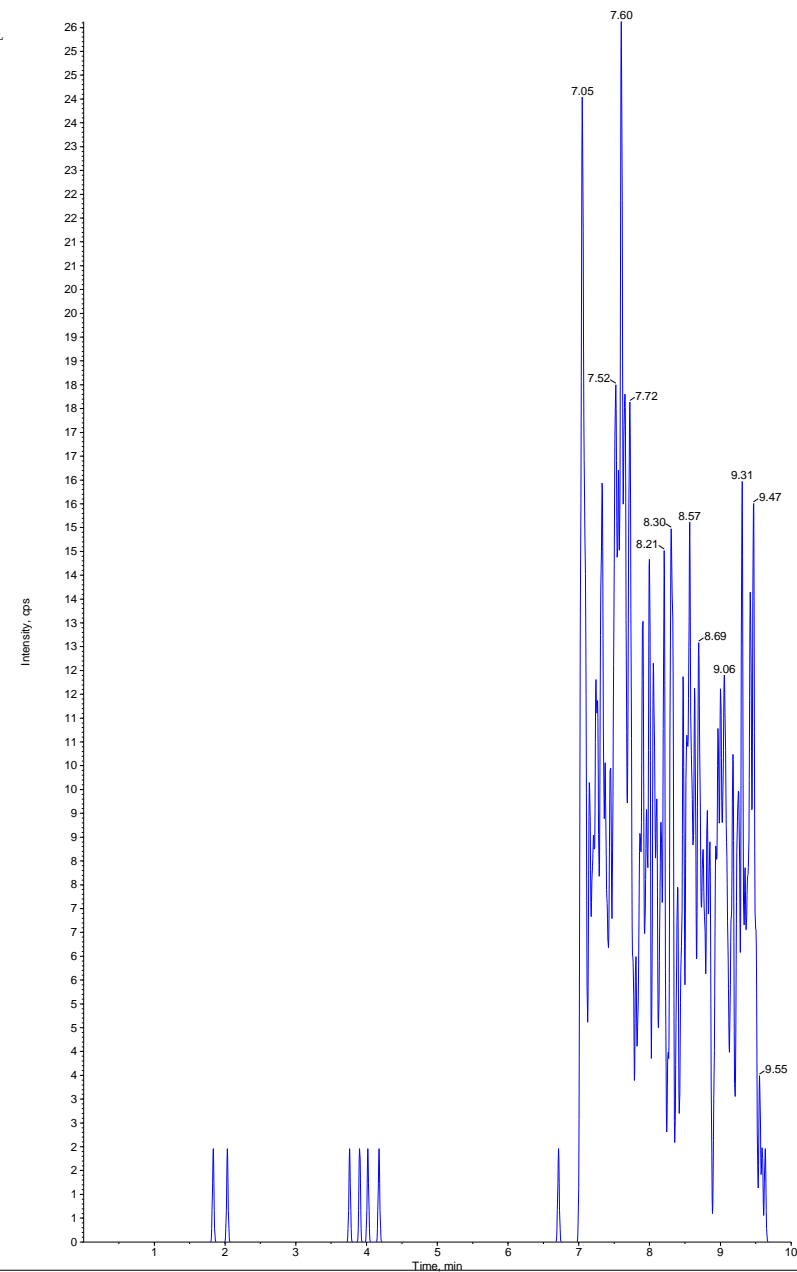


Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "blank04 is" Sample ID: "" File: "191213a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "" Annotation: ""
Sample Index: 10
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/13/2019
Acq. Time: 12:36:41 PM
Modified: No



Sample Name: "blank04 is" Sample ID: "" File: "191213a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "" Annotation: ""
Sample Index: 10
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/13/2019
Acq. Time: 12:36:41 PM
Modified: No



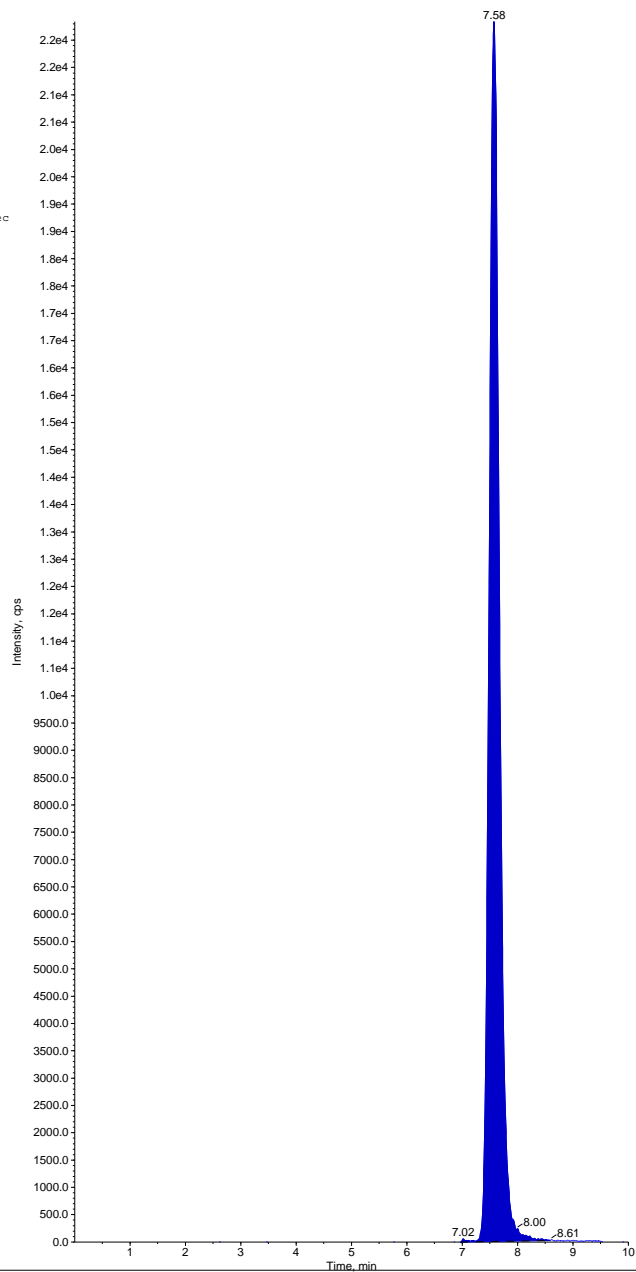
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "blank04 is" Sample ID: "" File: "191213a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

Sample Index: 10
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/13/2019
Acq. Time: 12:36:41 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.58 min
Area: 290000 counts
Height: 22300 cps
Start Time: 6.97 min
End Time: 8.59 min



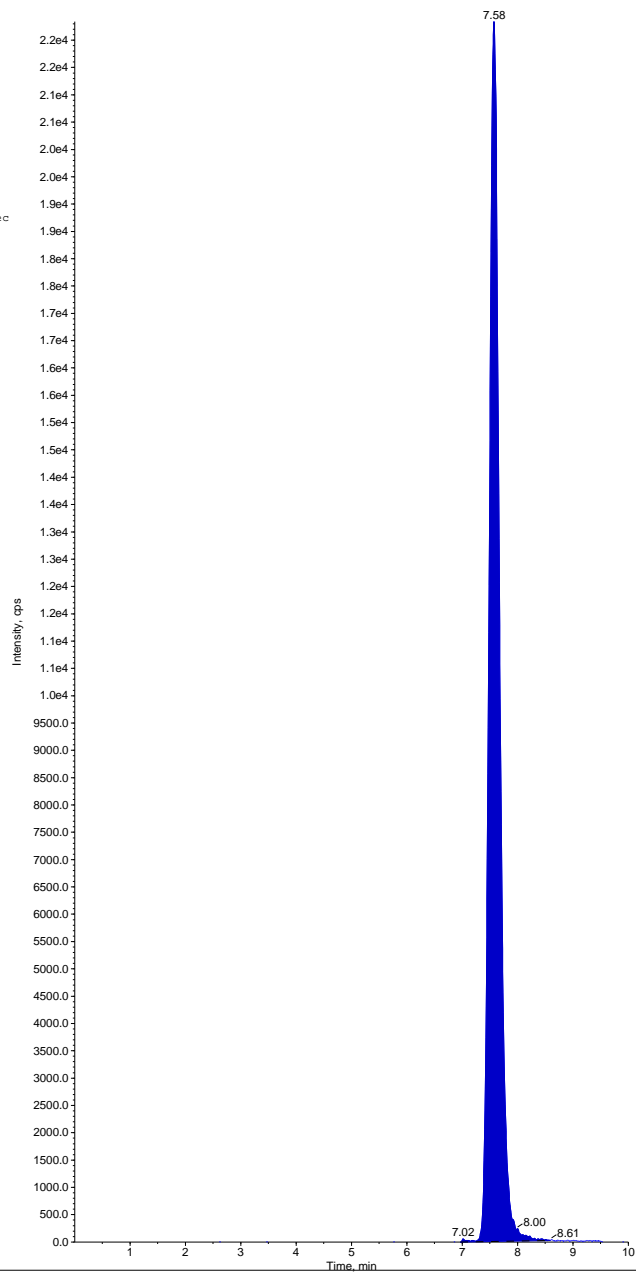
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "blank04 is" Sample ID: "" File: "191213a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

Sample Index: 10
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/13/2019
Acq. Time: 12:36:41 PM

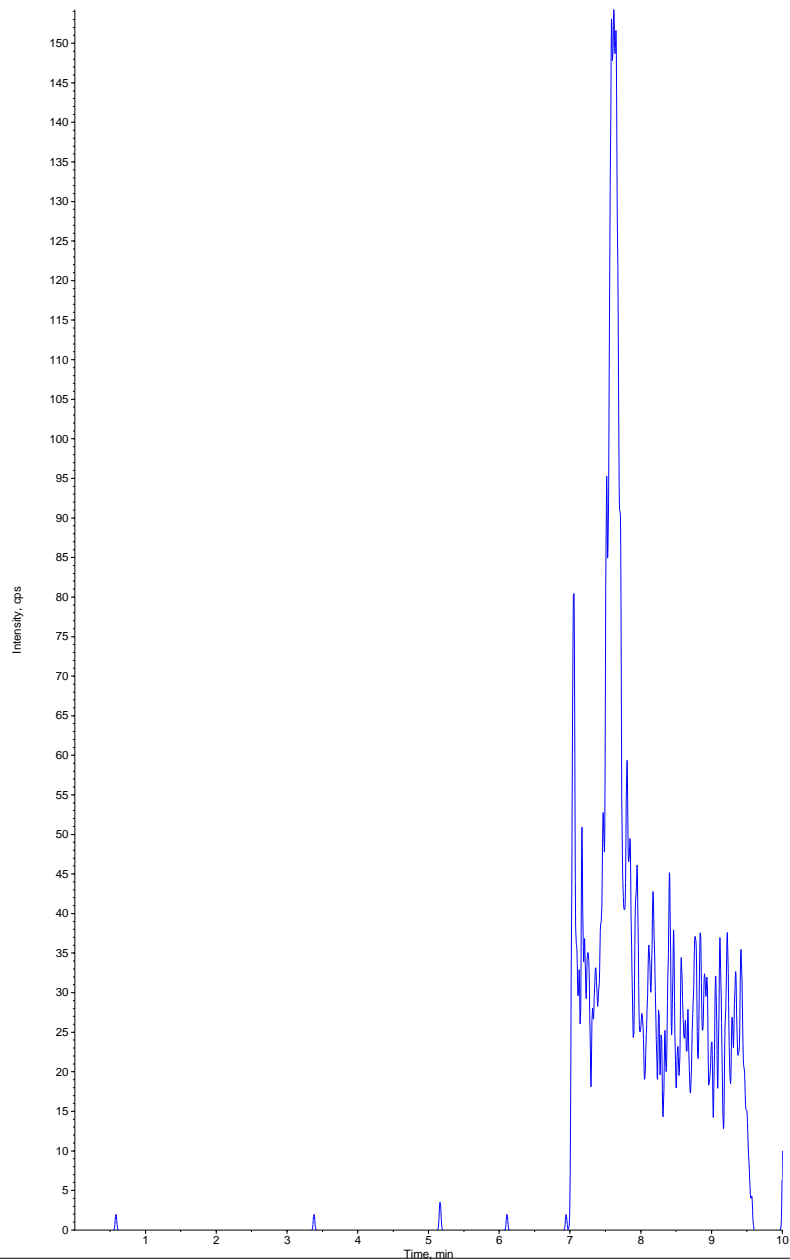
Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.58 min
Area: 290000 counts
Height: 22300 cps
Start Time: 6.97 min
End Time: 8.59 min

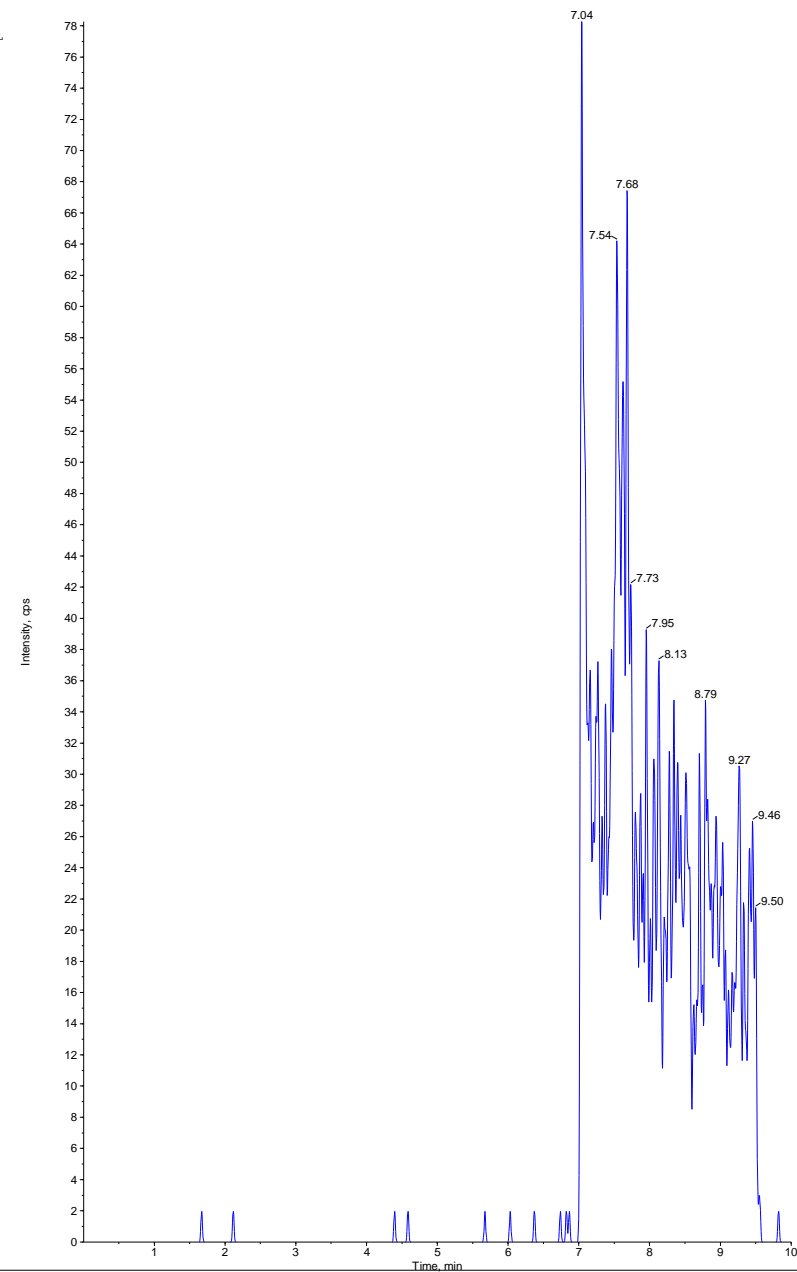


Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-21" Sample ID: "" File: "191213a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "rerun due to low is" Annotation: ""
Sample Index: 11
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/13/2019
Acq. Time: 03:03:27 PM
Modified: No



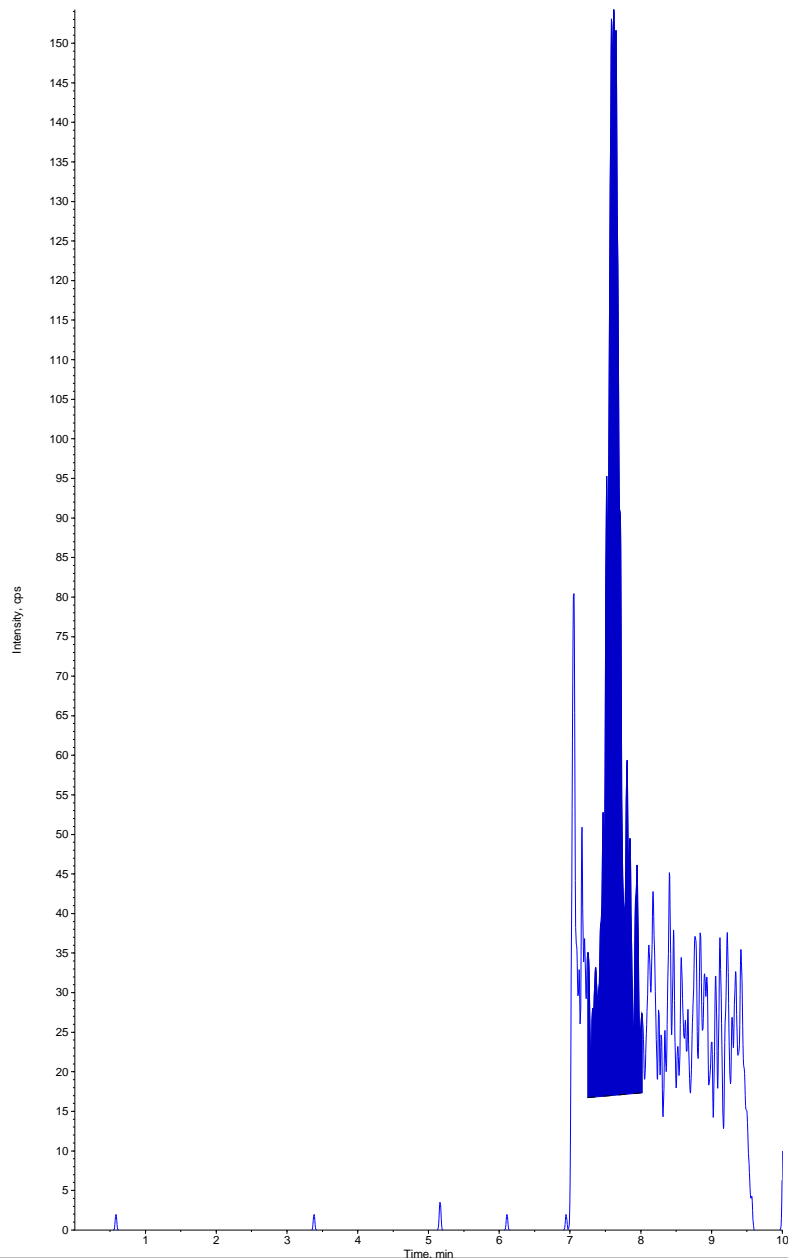
Sample Name: "L1957339-21" Sample ID: "" File: "191213a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "rerun due to low is" Annotation: ""
Sample Index: 11
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/13/2019
Acq. Time: 03:03:27 PM
Modified: No



Collected by: N/A
Electronic Signature: no
Operator: Administrator

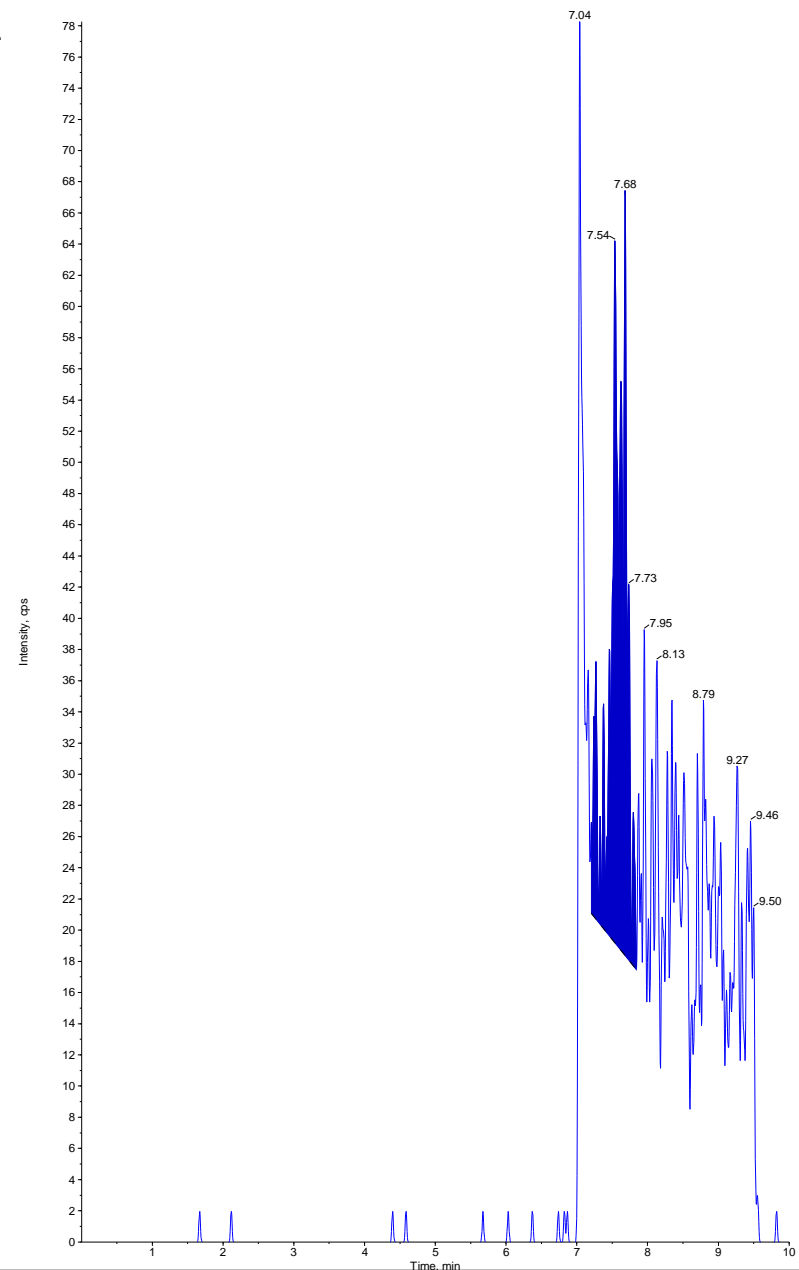
Sample Name: 'L1957339-21' Sample ID: '' File: '191213a.wiff'
Peak Name: 'Perchlorate' Mass(es): '99.0/83.0 amu'
Comment: 'rerun due to low is' Annotation: ''

Sample Index: 11
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.0114 ug/L
Acq. Date: 12/13/2019
Acq. Time: 03:03:27 PM
Modified: Yes
RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No
Int. Type: Manual
Retention Time: 7.62 min
Area: 2060 counts
Height: 137. cps
Start Time: 7.25 min
End Time: 8.02 min



Sample Name: 'L1957339-21' Sample ID: '' File: '191213a.wiff'
Peak Name: 'Perchlorate-37' Mass(es): '101.0/85.0 amu'
Comment: 'rerun due to low is' Annotation: ''

Sample Index: 11
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.0115 ug/L
Acq. Date: 12/13/2019
Acq. Time: 03:03:27 PM
Modified: Yes
RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No
Int. Type: Manual
Retention Time: 7.68 min
Area: 647 counts
Height: 49.6 cps
Start Time: 7.21 min
End Time: 7.84 min



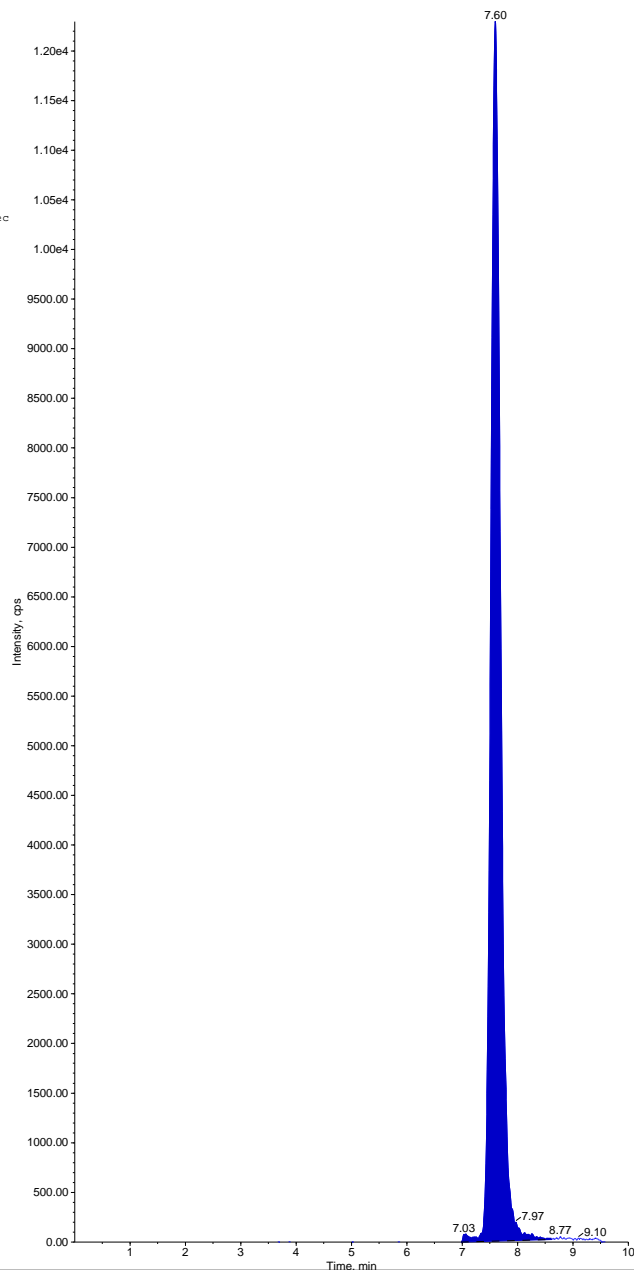
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'L1957339-21' Sample ID: '' File: '191213a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: 'rerun due to low is' Annotation: ''

Sample Index: 11
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/13/2019
Acq. Time: 03:03:27 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.60 min
Area: 153000 counts
Height: 12300 cps
Start Time: 6.98 min
End Time: 8.62 min



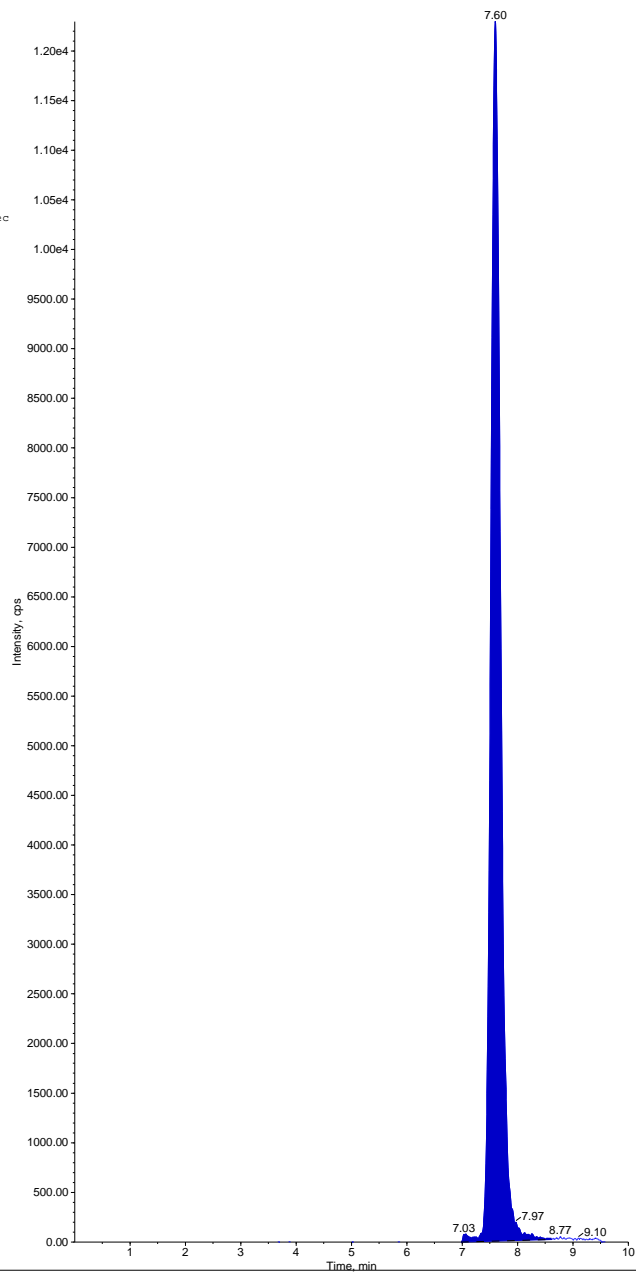
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'L1957339-21' Sample ID: '' File: '191213a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: 'rerun due to low is' Annotation: ''

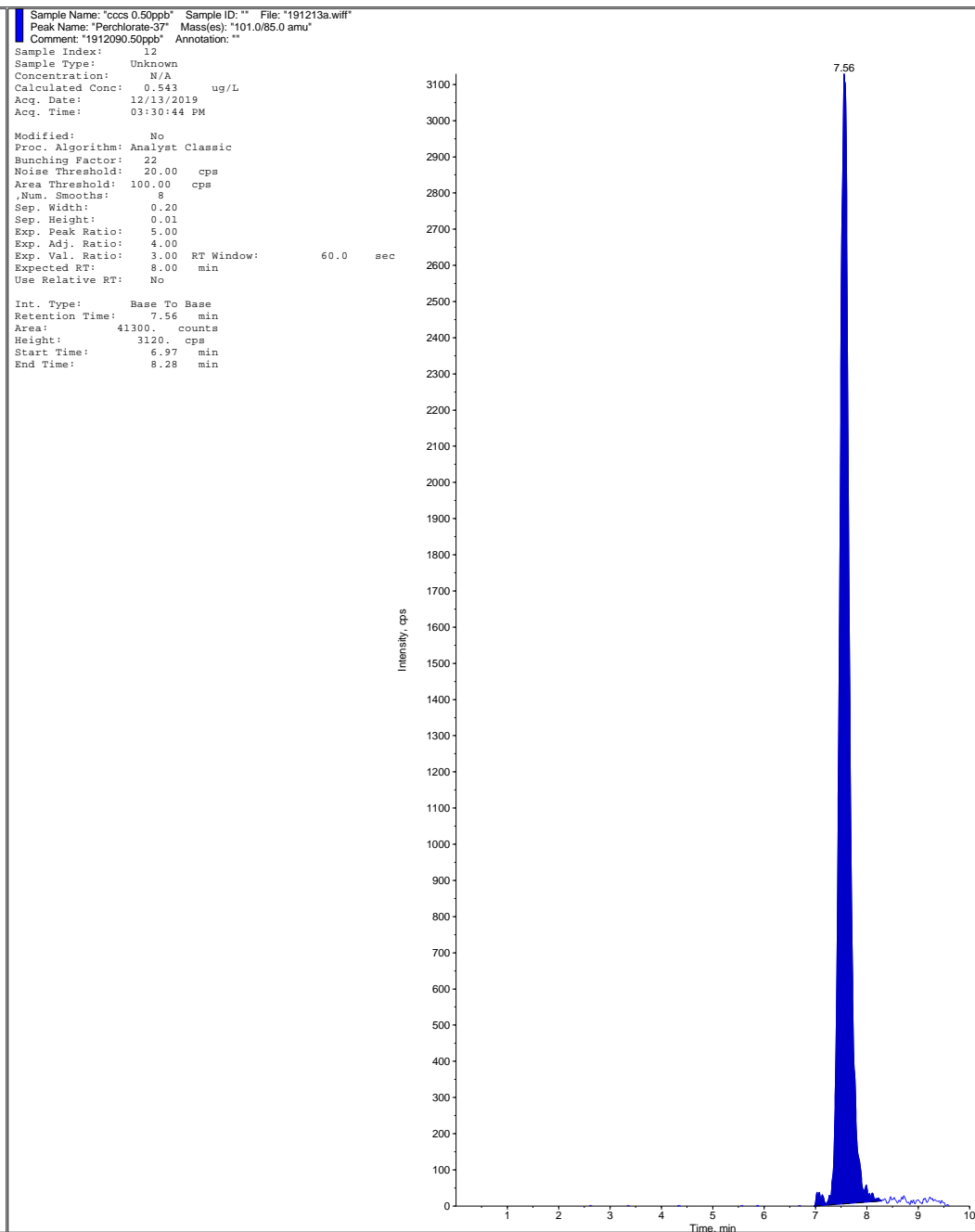
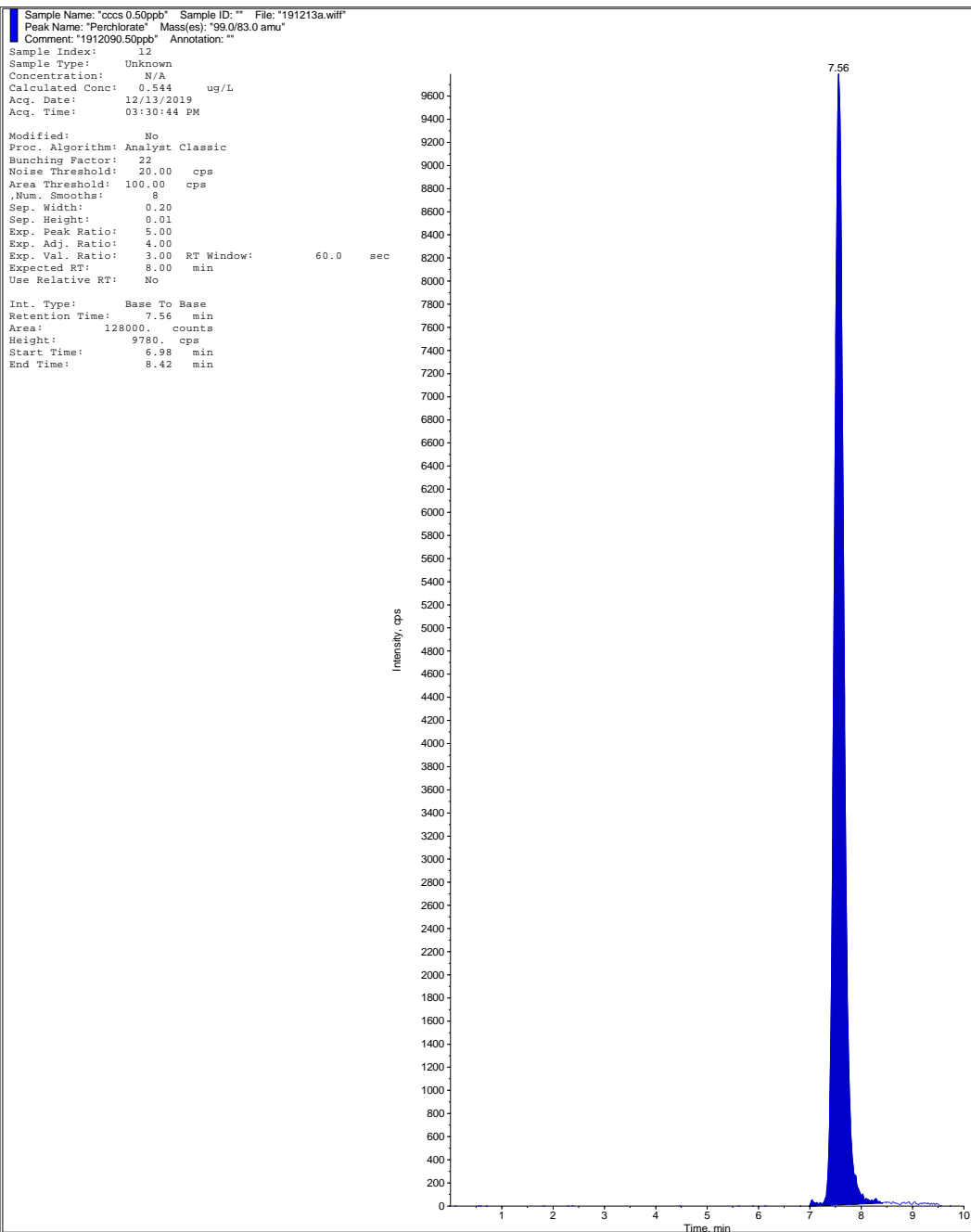
Sample Index: 11
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/13/2019
Acq. Time: 03:03:27 PM

Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

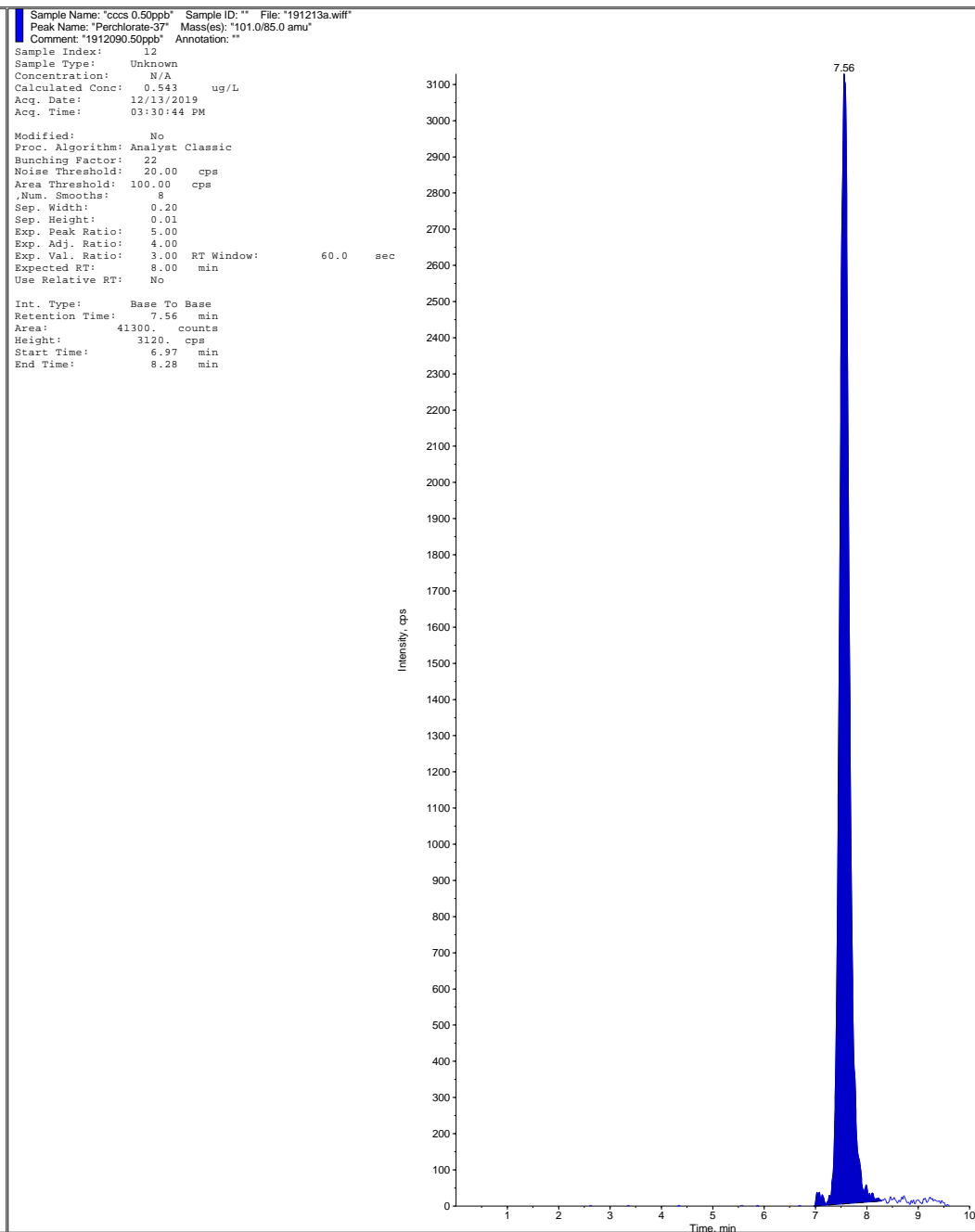
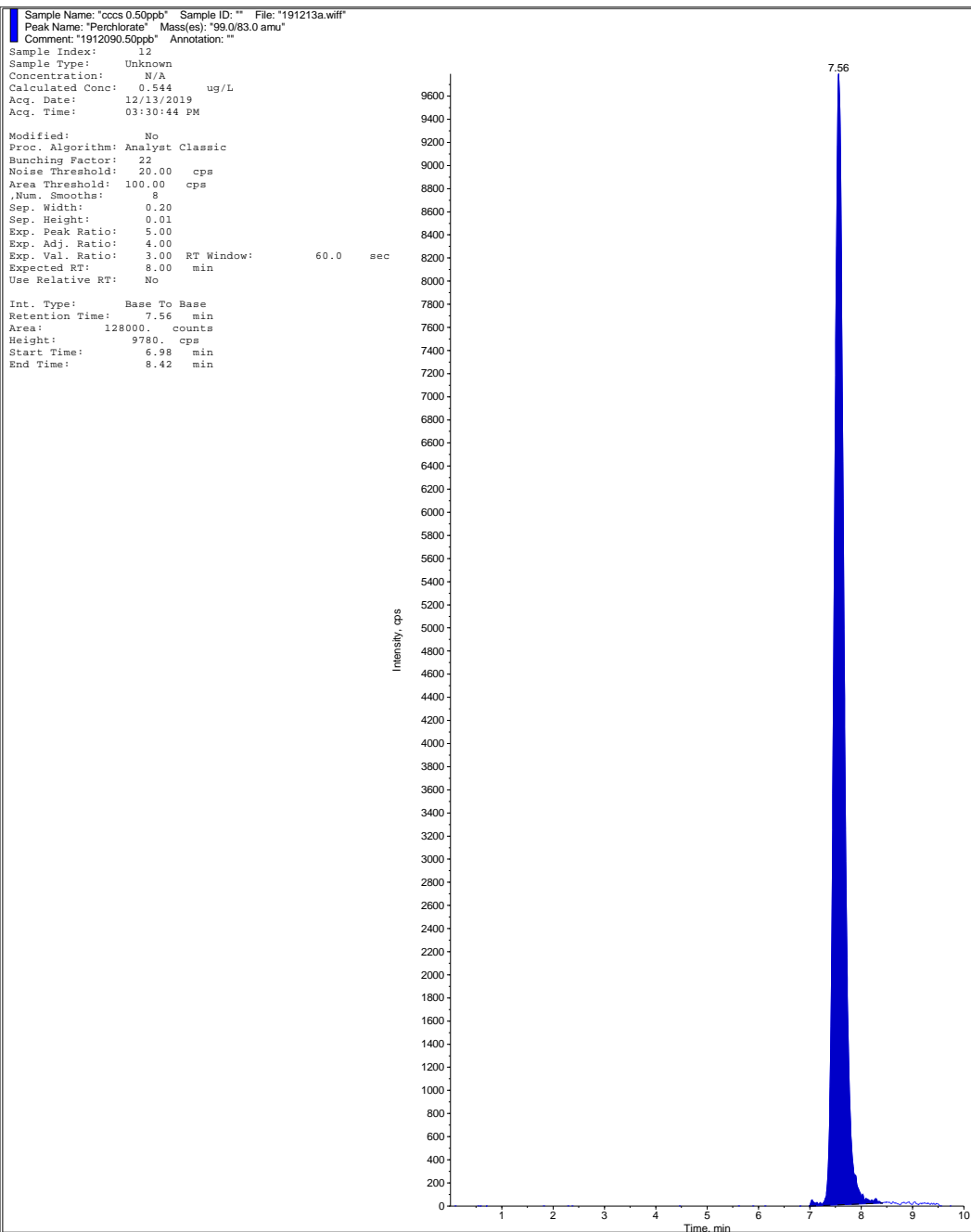
Int. Type: Base To Base
Retention Time: 7.60 min
Area: 153000 counts
Height: 12300 cps
Start Time: 6.98 min
End Time: 8.62 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator



Collected by: N/A
Electronic Signature: no
Operator: Administrator



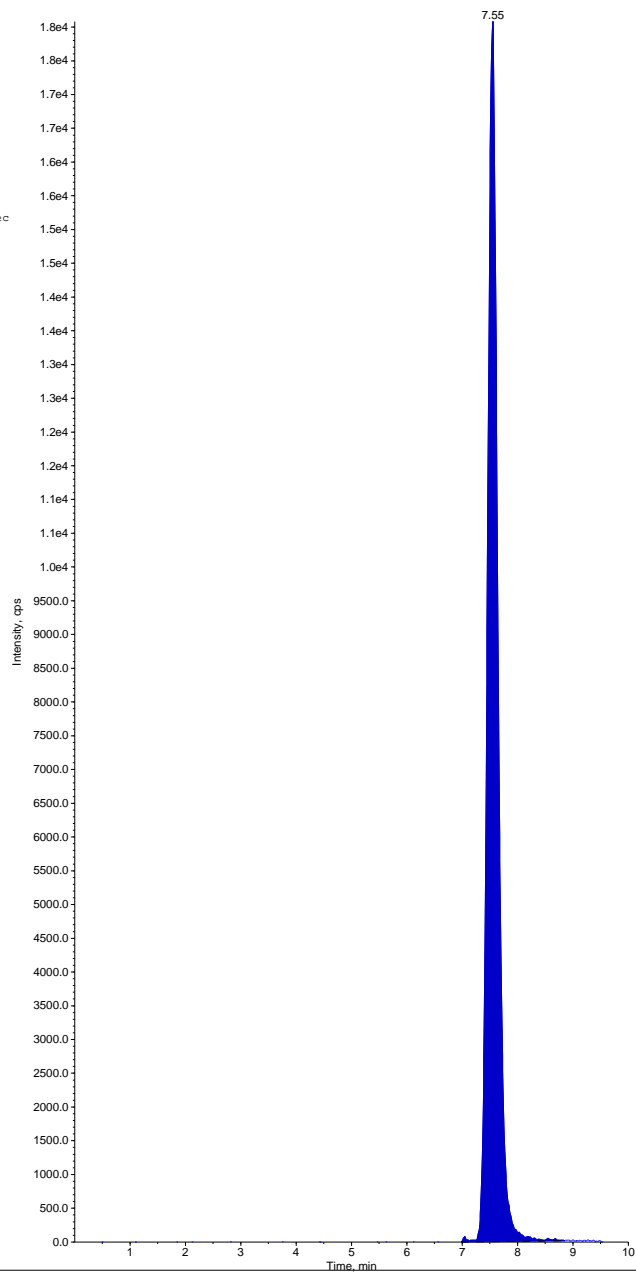
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'cccc 0.50ppb' Sample ID: '' File: '191213a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: '1912090.50ppb' Annotation: ''

Sample Index: 12
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/13/2019
Acq. Time: 03:30:44 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.55 min
Area: 236000 counts
Height: 18100 cps
Start Time: 6.98 min
End Time: 8.85 min



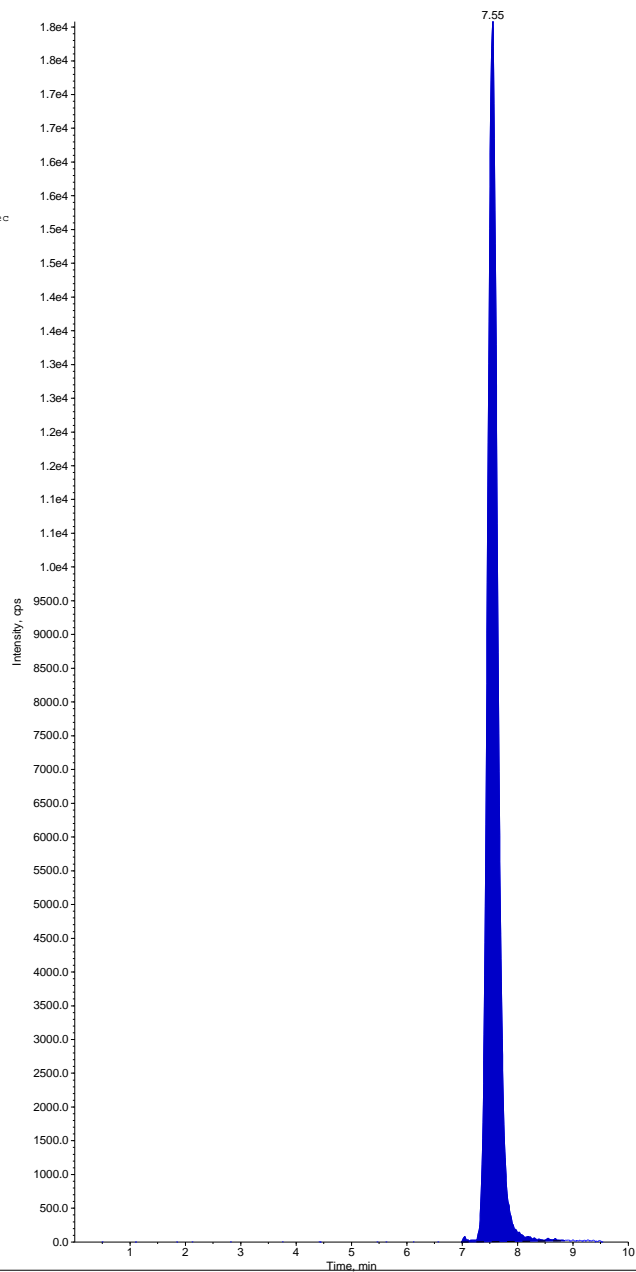
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'cccs 0.50ppb' Sample ID: '' File: '191213a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: '1912090.50ppb' Annotation: ''

Sample Index: 12
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/13/2019
Acq. Time: 03:30:44 PM

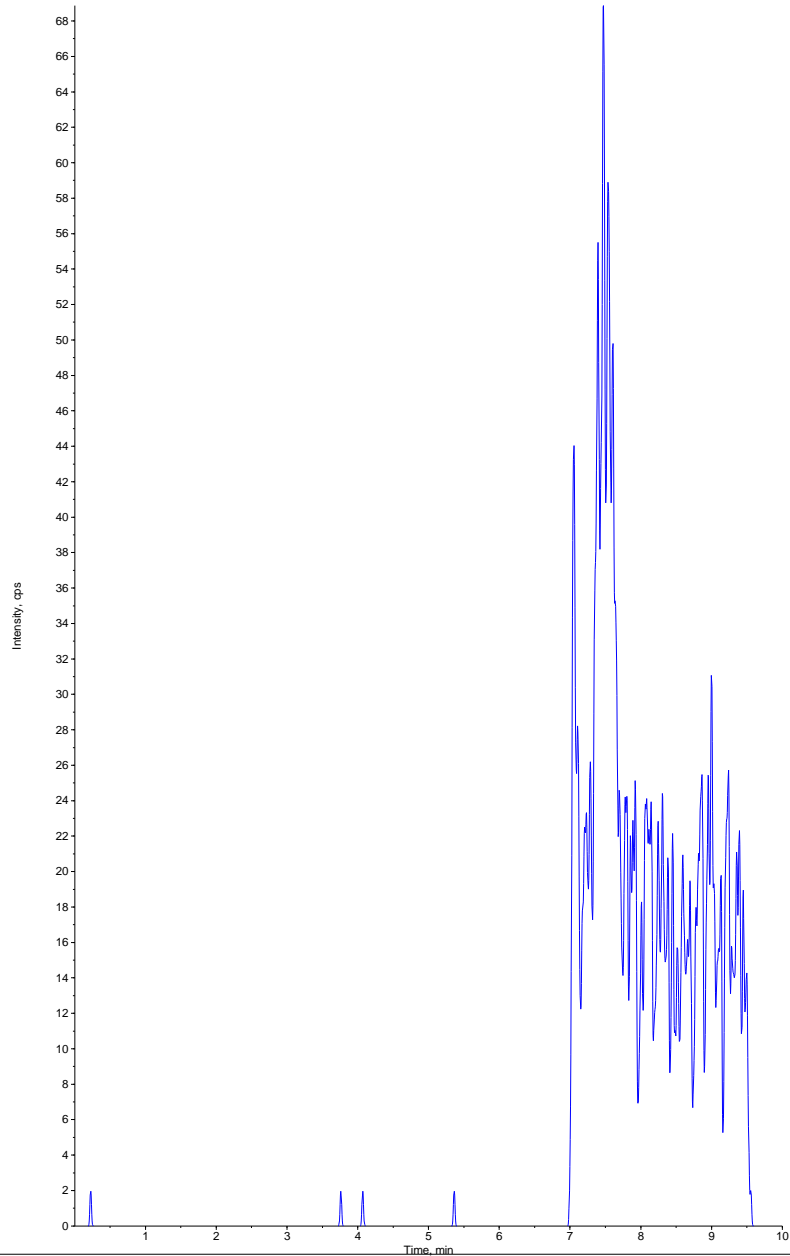
Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.55 min
Area: 236000 counts
Height: 18100 cps
Start Time: 6.98 min
End Time: 8.85 min

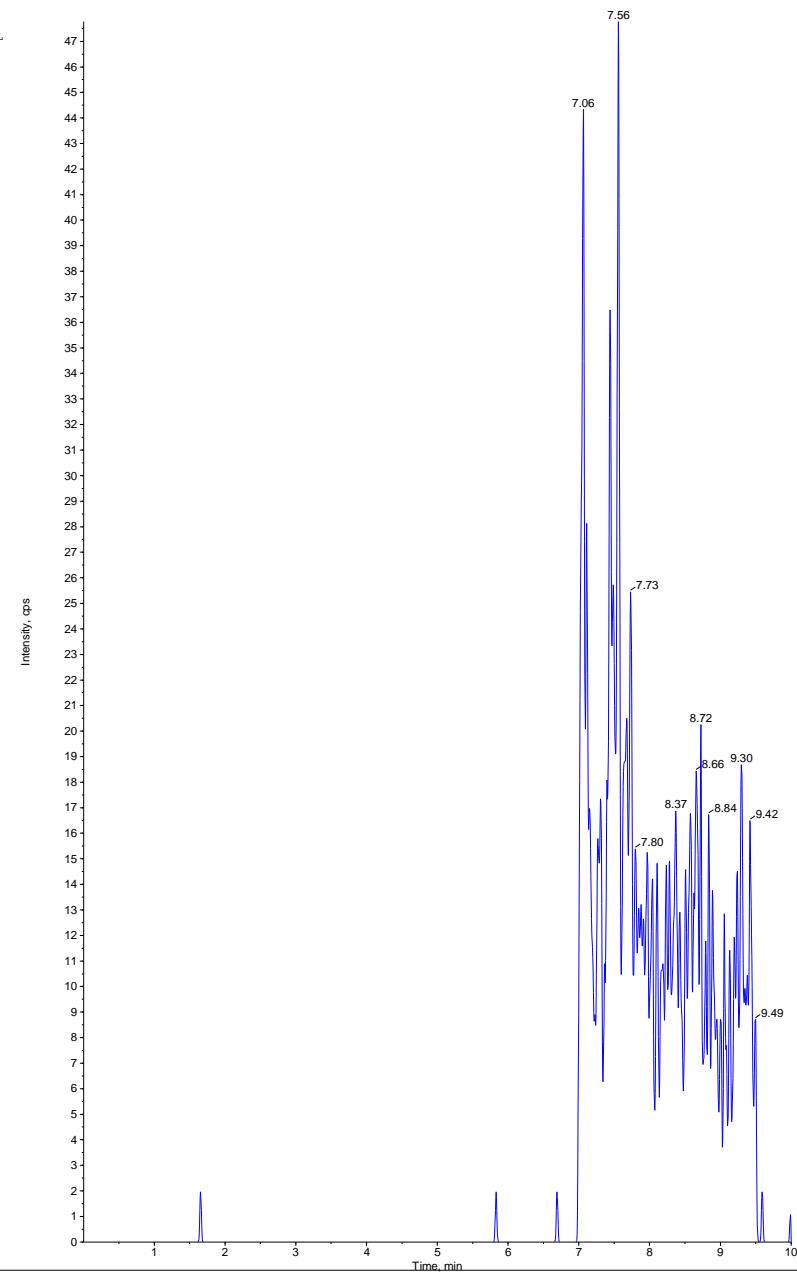


Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "blank05 is" Sample ID: "" File: "191213a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "" Annotation: ""
Sample Index: 13
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/13/2019
Acq. Time: 03:42:42 PM
Modified: No

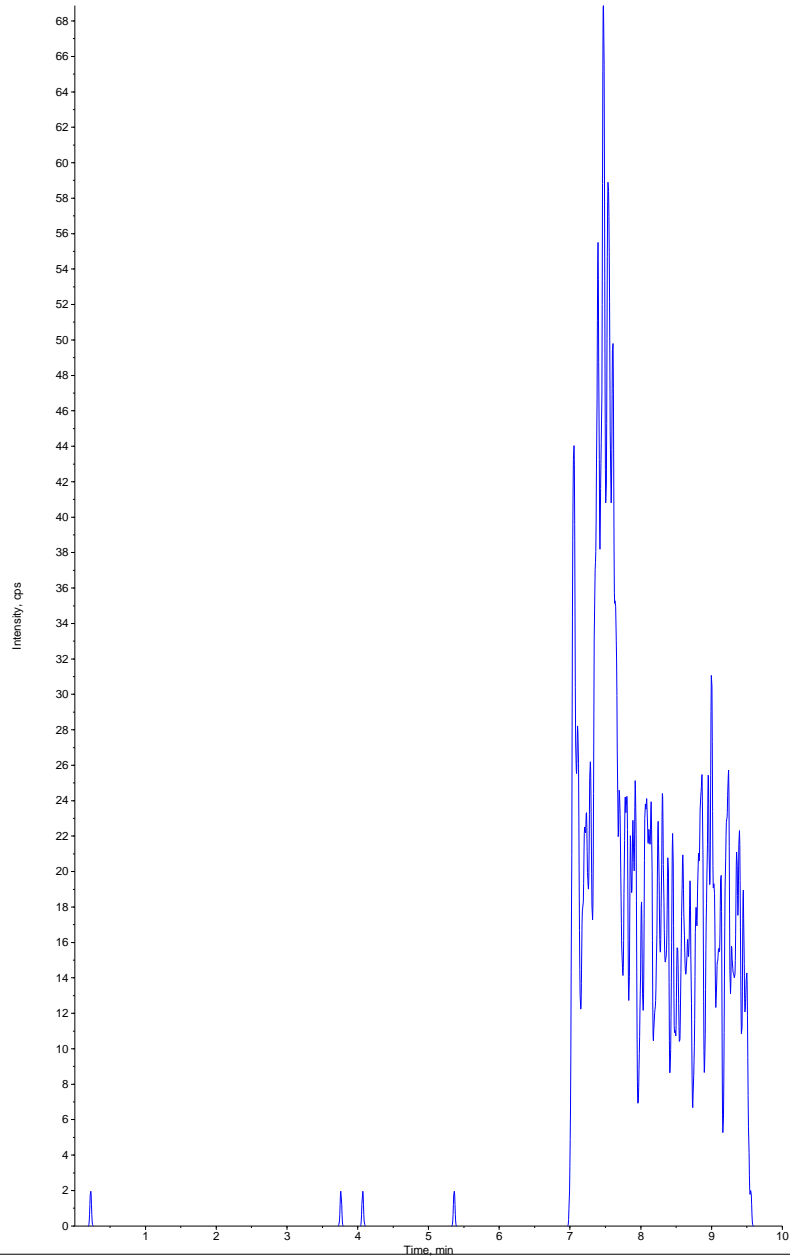


Sample Name: "blank05 is" Sample ID: "" File: "191213a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "" Annotation: ""
Sample Index: 13
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/13/2019
Acq. Time: 03:42:42 PM
Modified: No

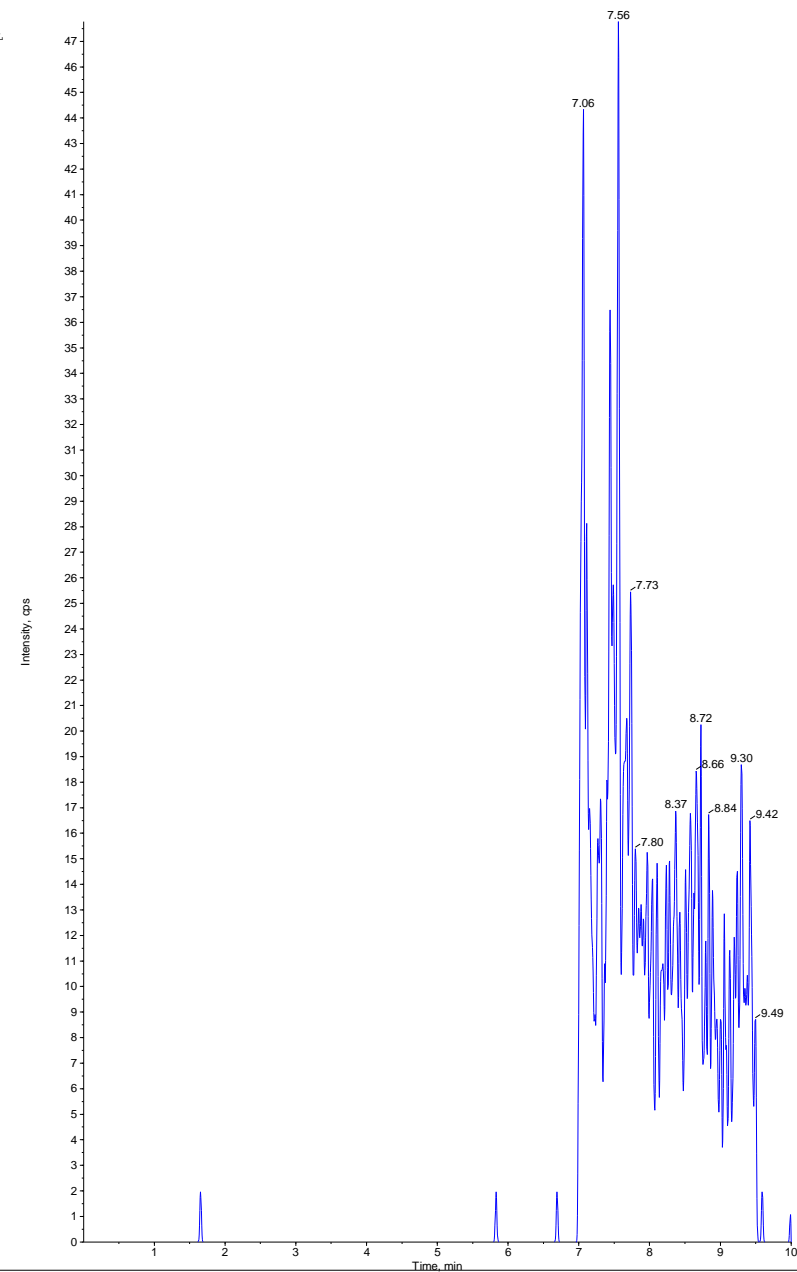


Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "blank05 is" Sample ID: "" File: "191213a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "" Annotation: ""
Sample Index: 13
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/13/2019
Acq. Time: 03:42:42 PM
Modified: Yes

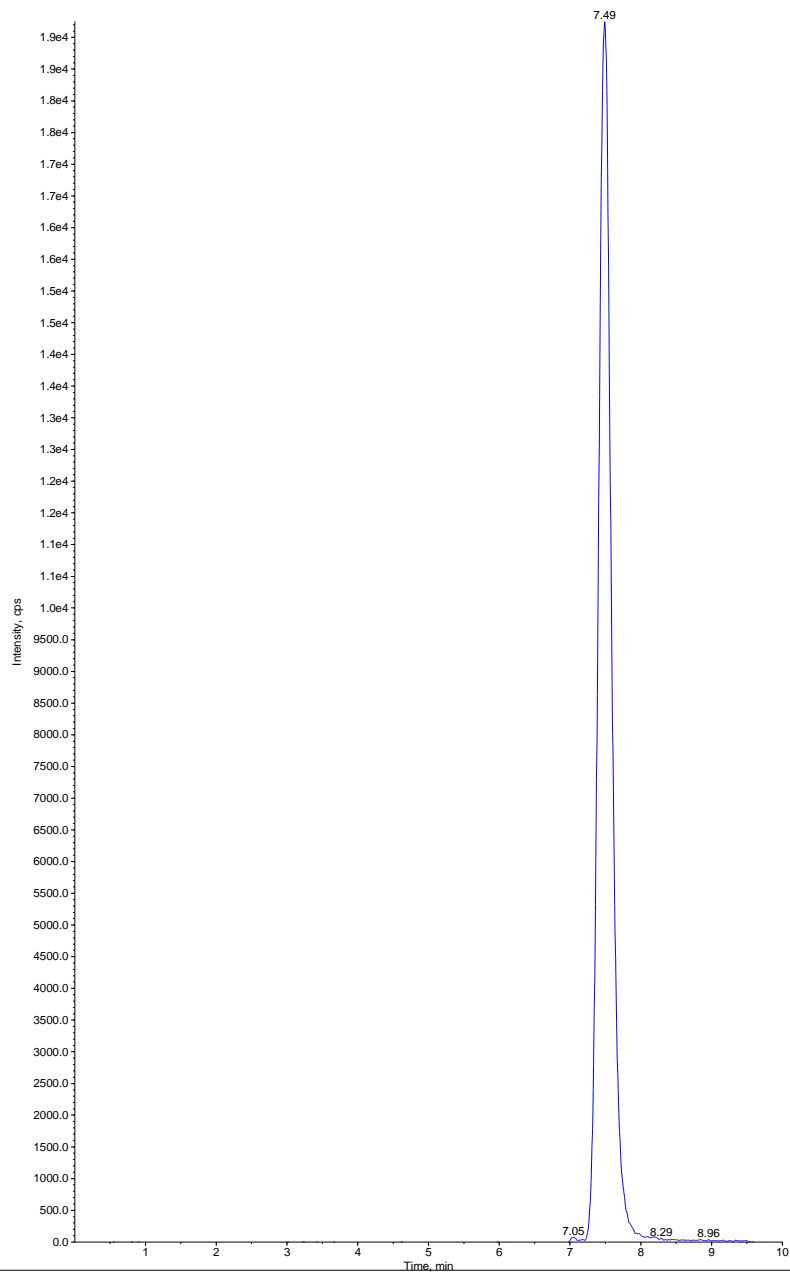


Sample Name: "blank05 is" Sample ID: "" File: "191213a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "" Annotation: ""
Sample Index: 13
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/13/2019
Acq. Time: 03:42:42 PM
Modified: Yes



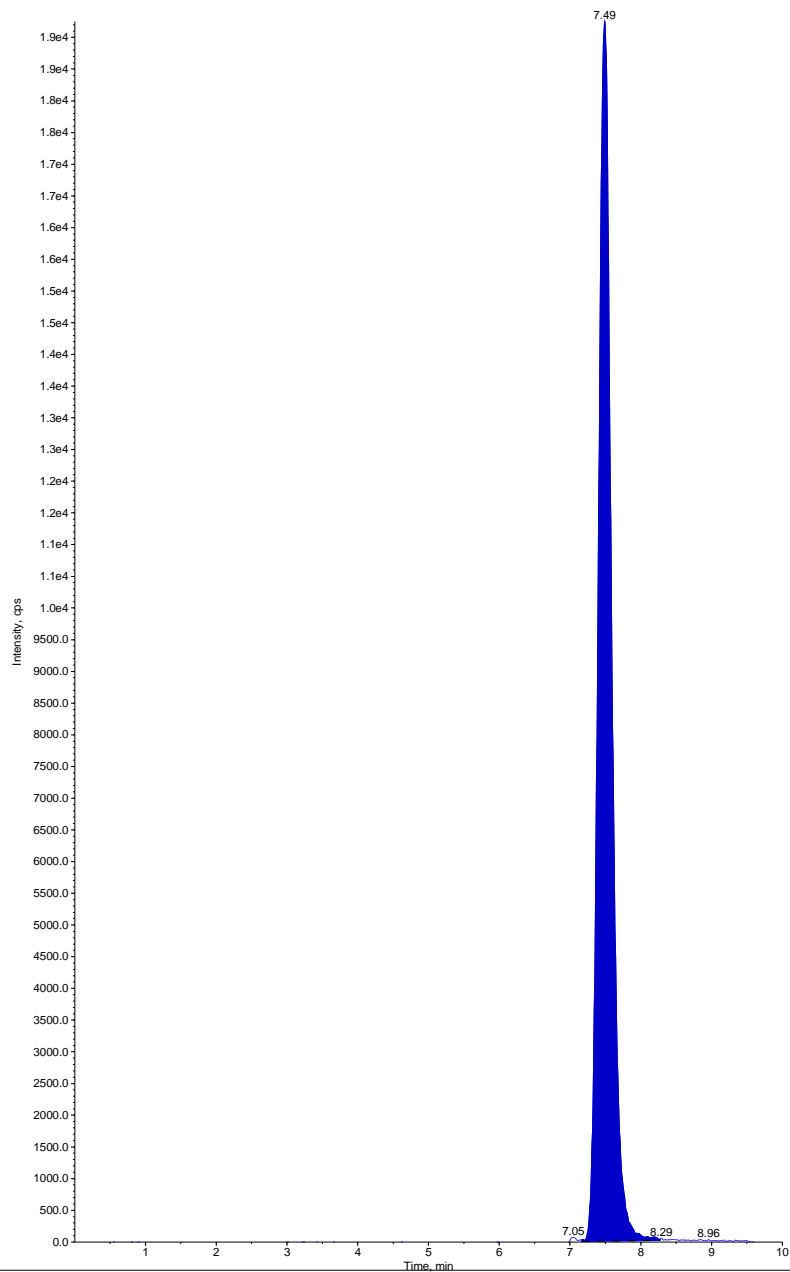
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "blank05.is" Sample ID: "" File: "191213a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""
Sample Index: 13
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/13/2019
Acq. Time: 03:42:42 PM
Modified: No

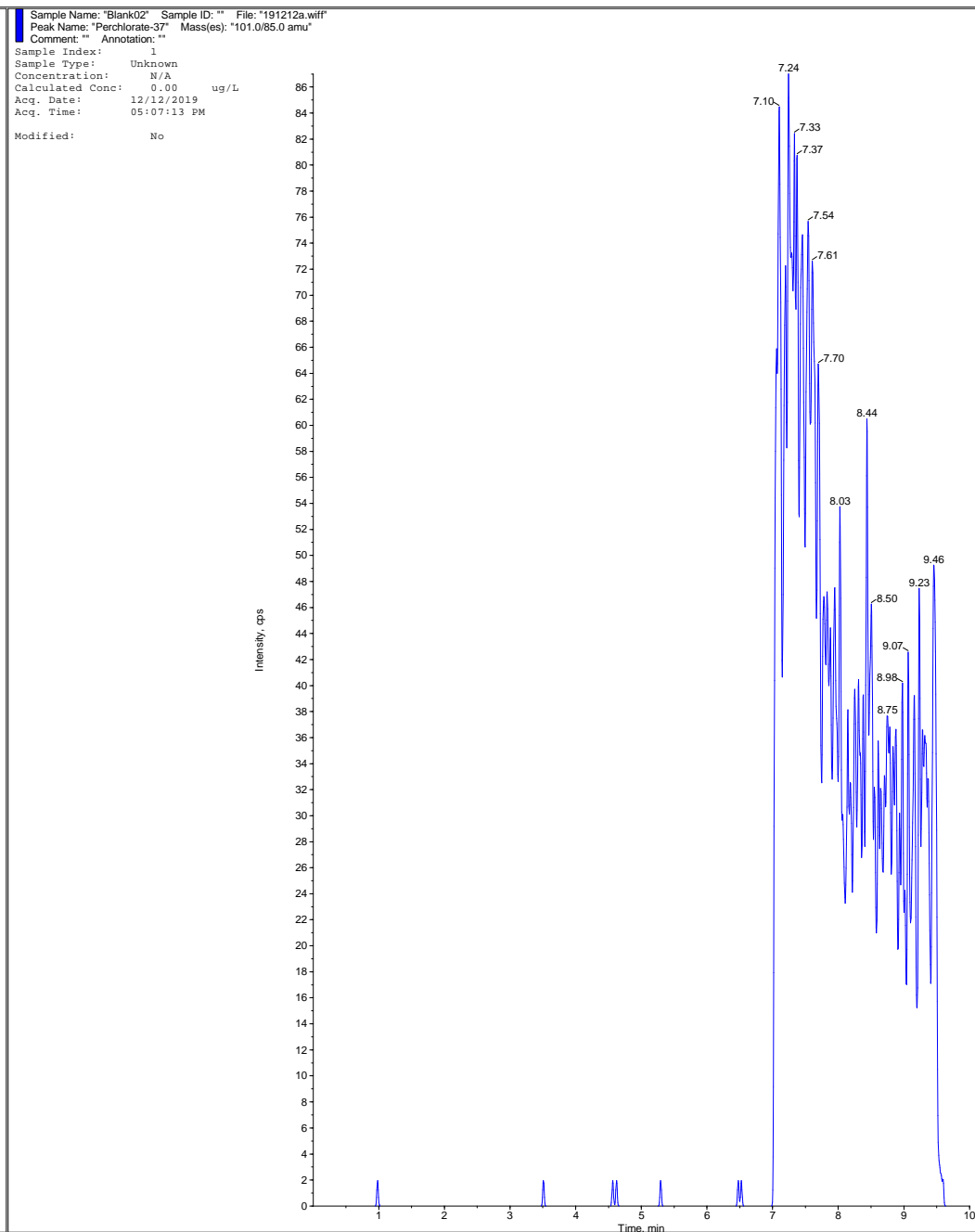
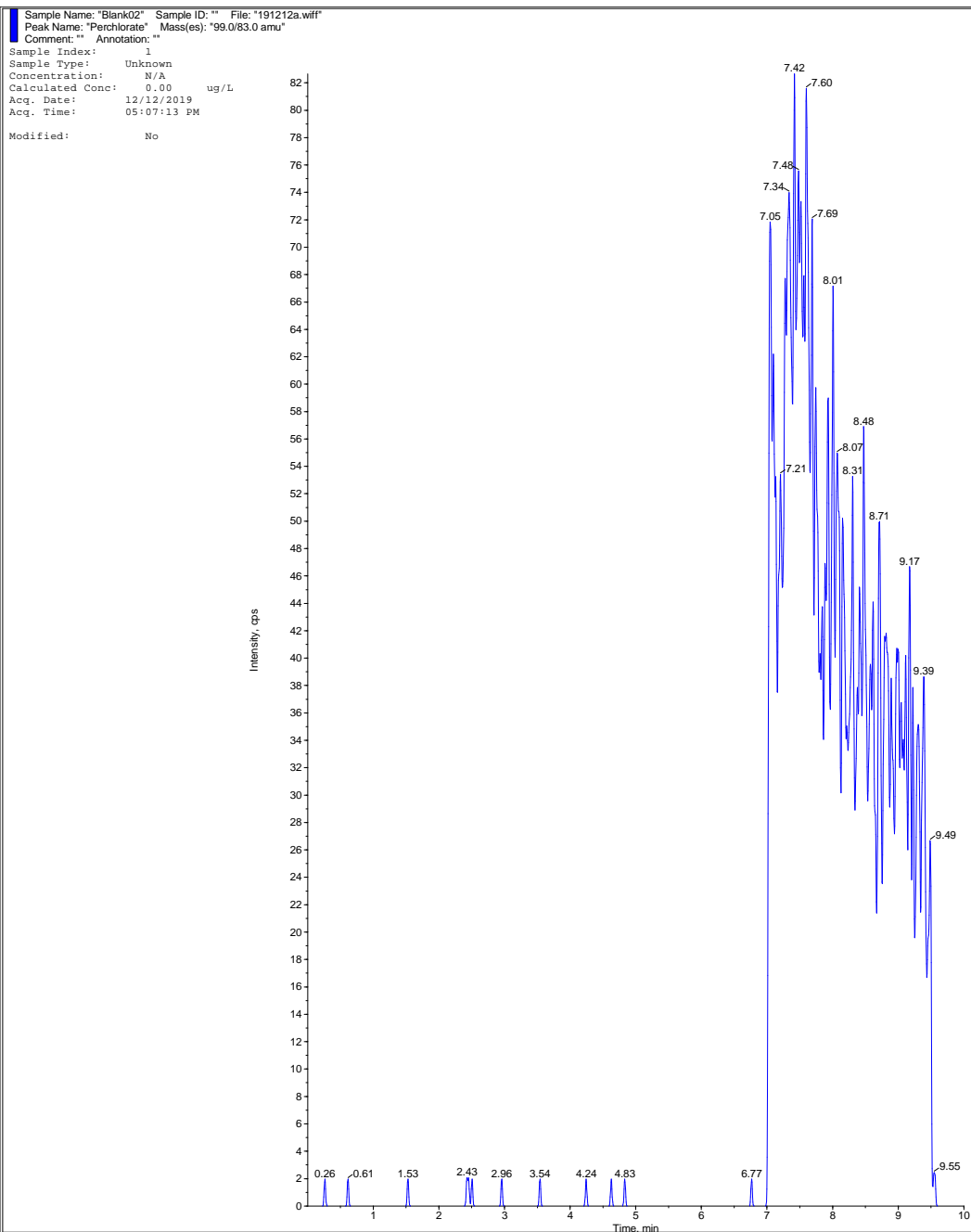


Collected by: N/A
Electronic Signature: no
Operator: Administrator

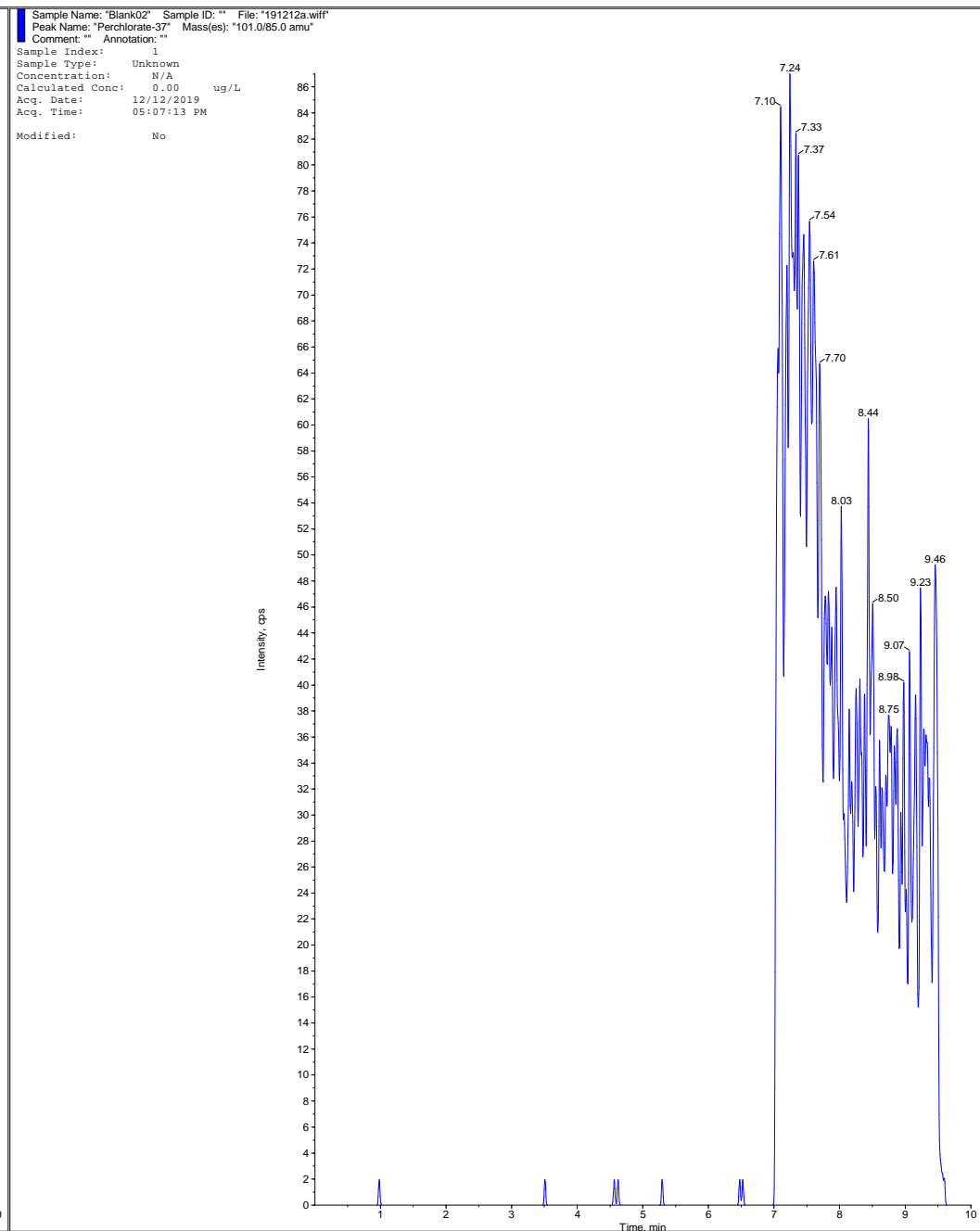
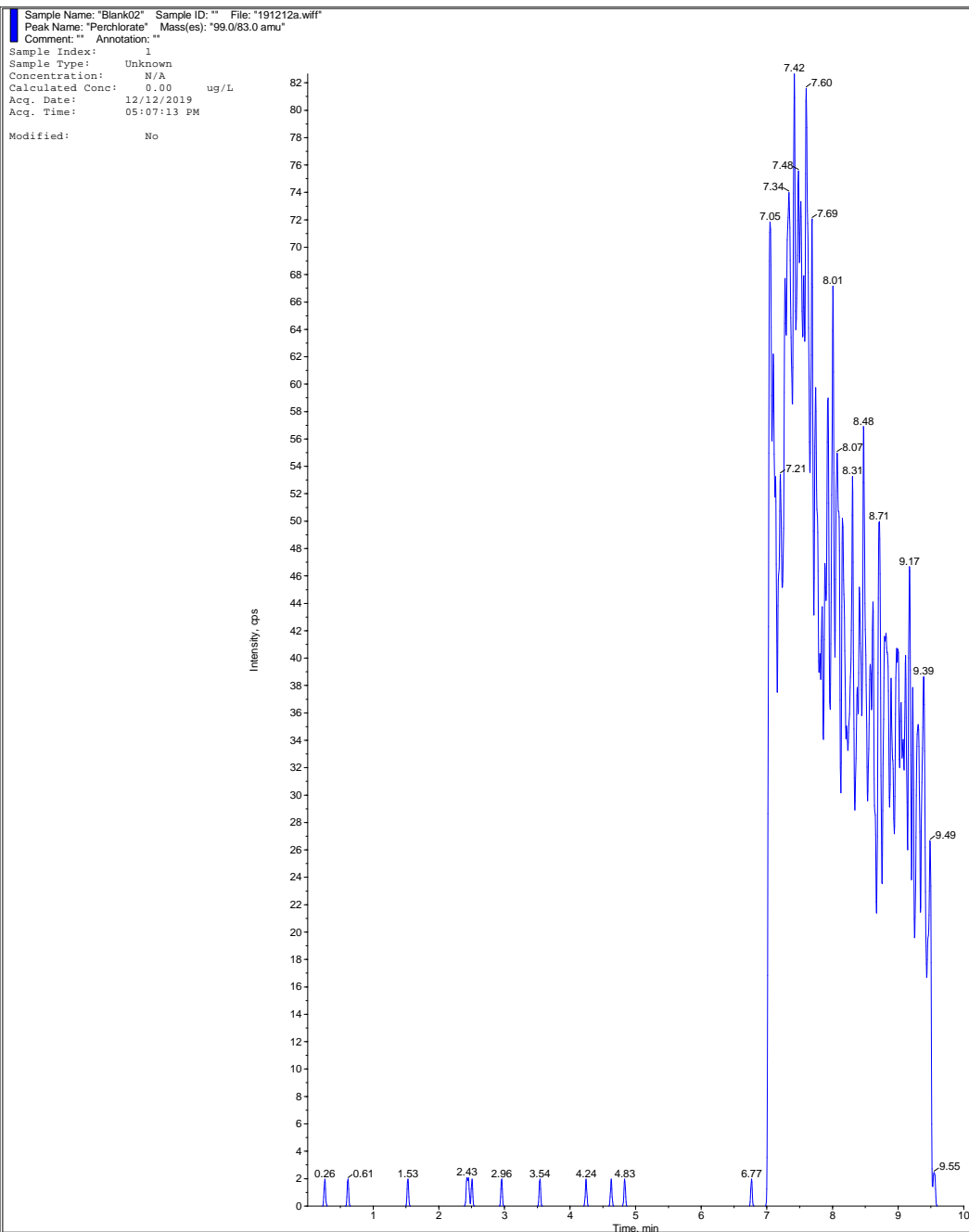
Sample Name: "blank05 is" Sample ID: "" File: "191213a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""
Sample Index: 13
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/13/2019
Acq. Time: 03:42:42 PM
Modified: Yes
RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No
Int. Type: Manual
Retention Time: 7.49 min
Area: 250000 counts
Height: 19200 cps
Start Time: 7.16 min
End Time: 8.27 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator

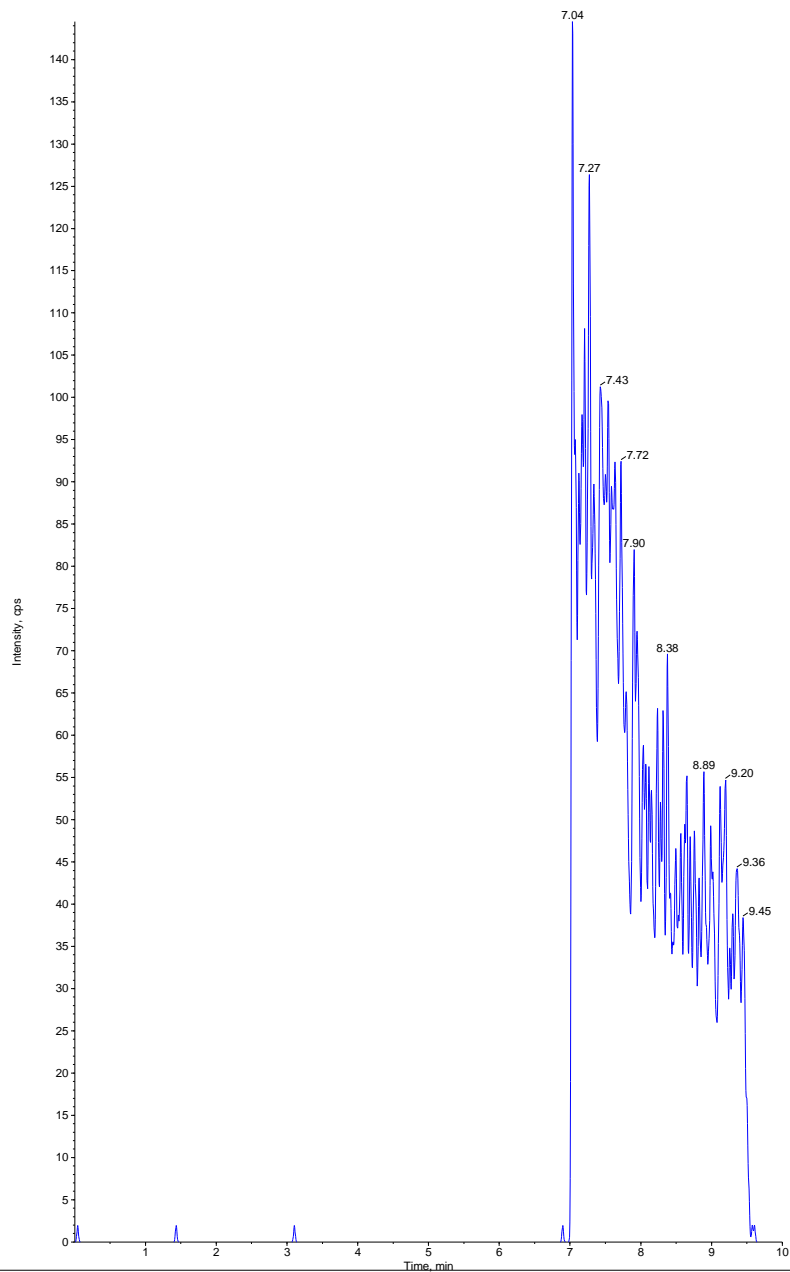


Collected by: N/A
Electronic Signature: no
Operator: Administrator



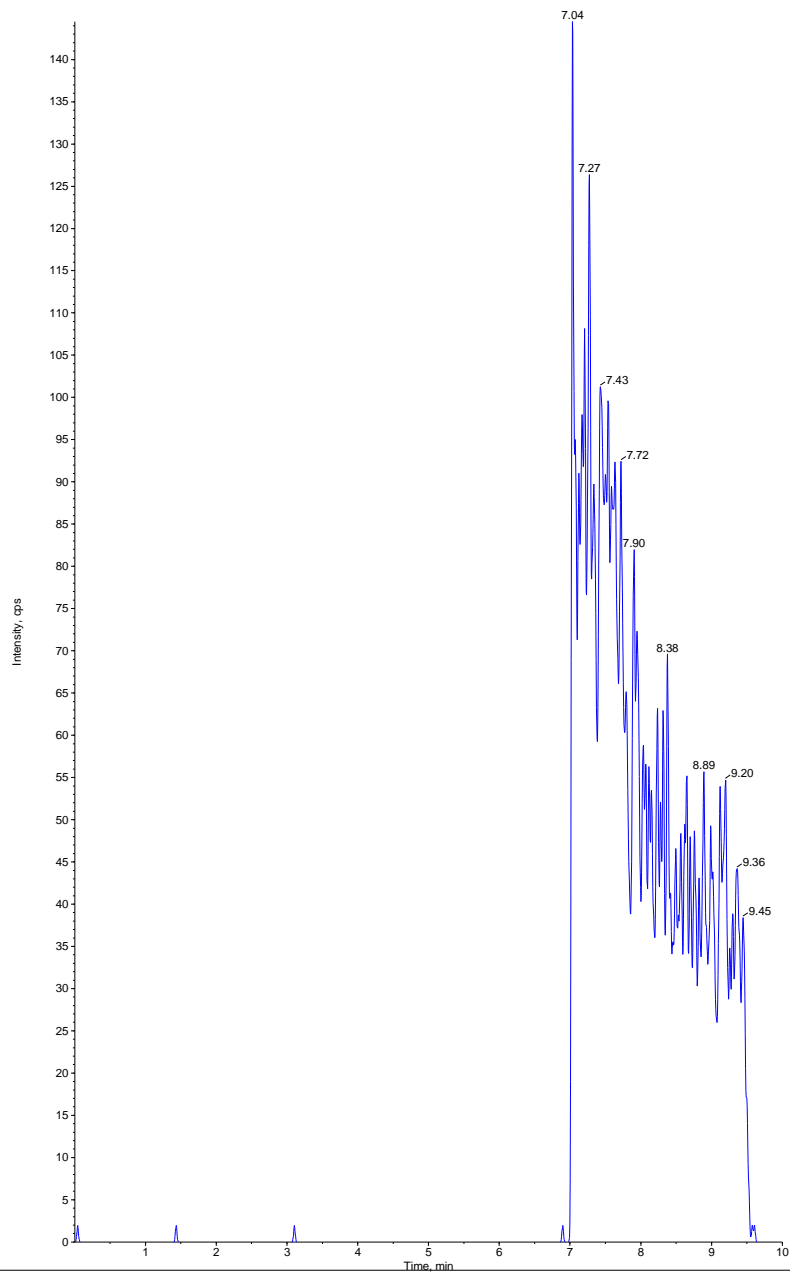
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "Blank02" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 05:07:13 PM
Modified: No



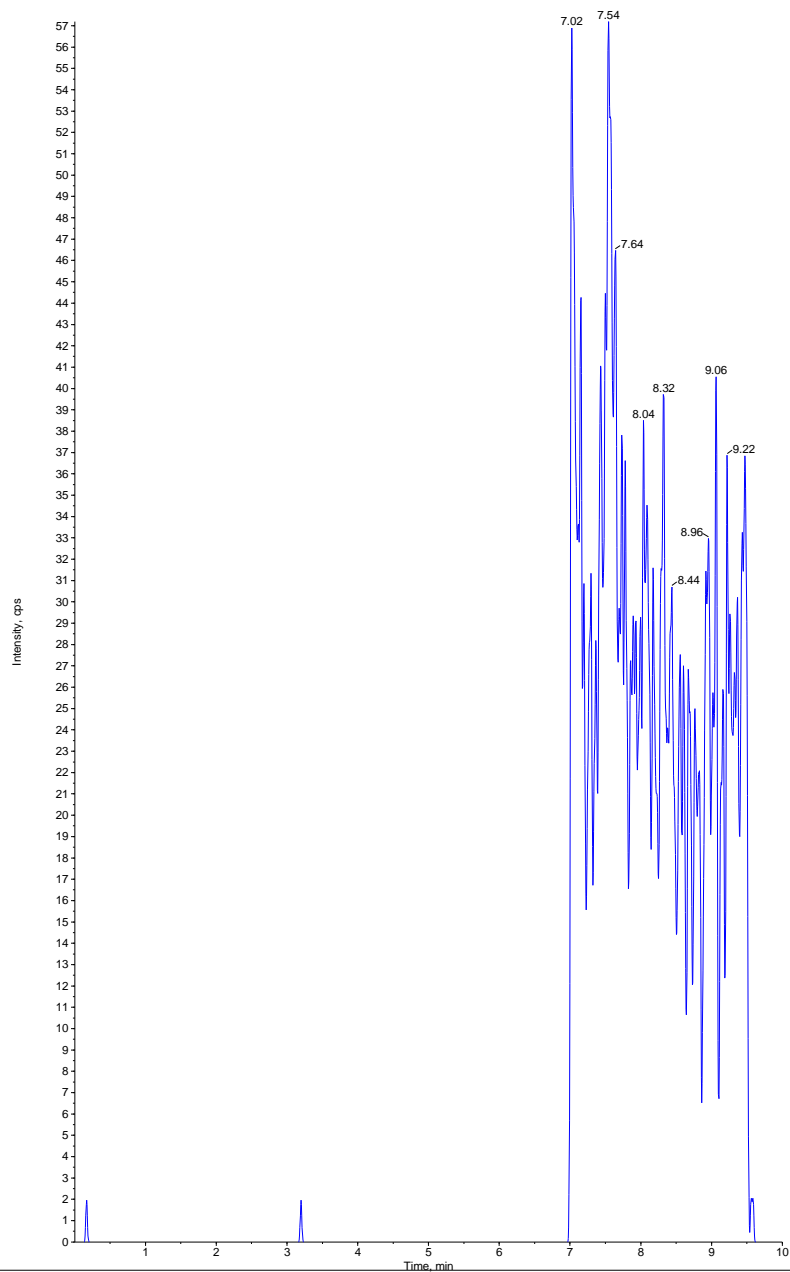
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "Blank02" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 05:07:13 PM
Modified: No

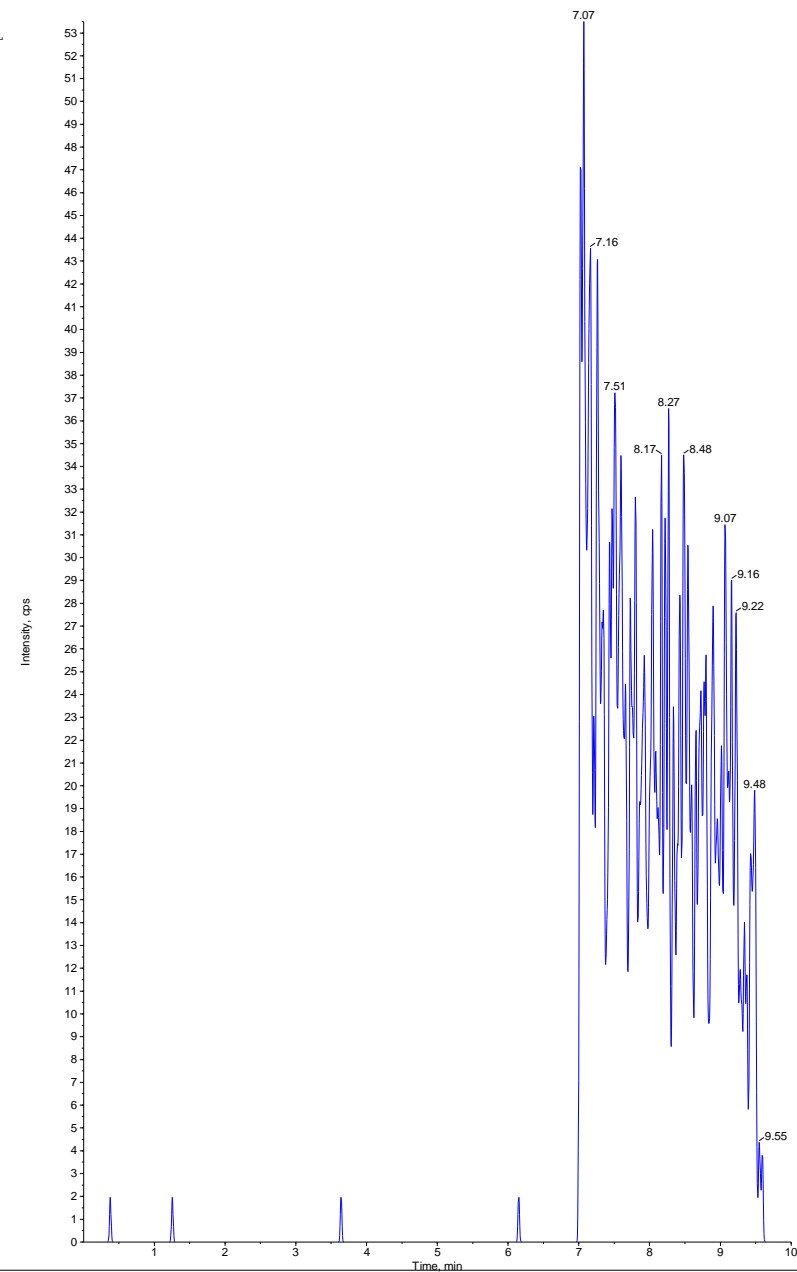


Collected by: N/A
Electronic Signature: no
Operator: Administrator

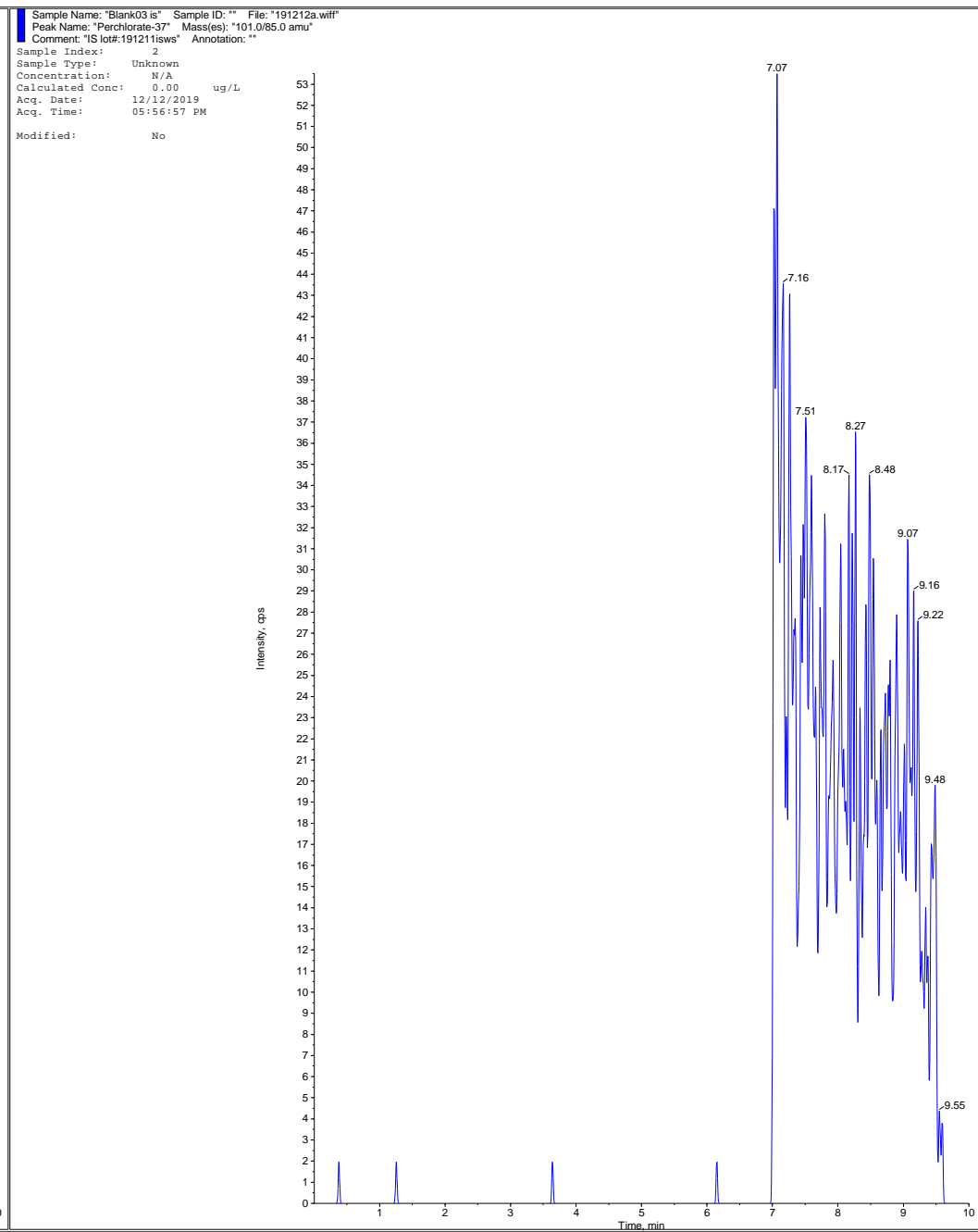
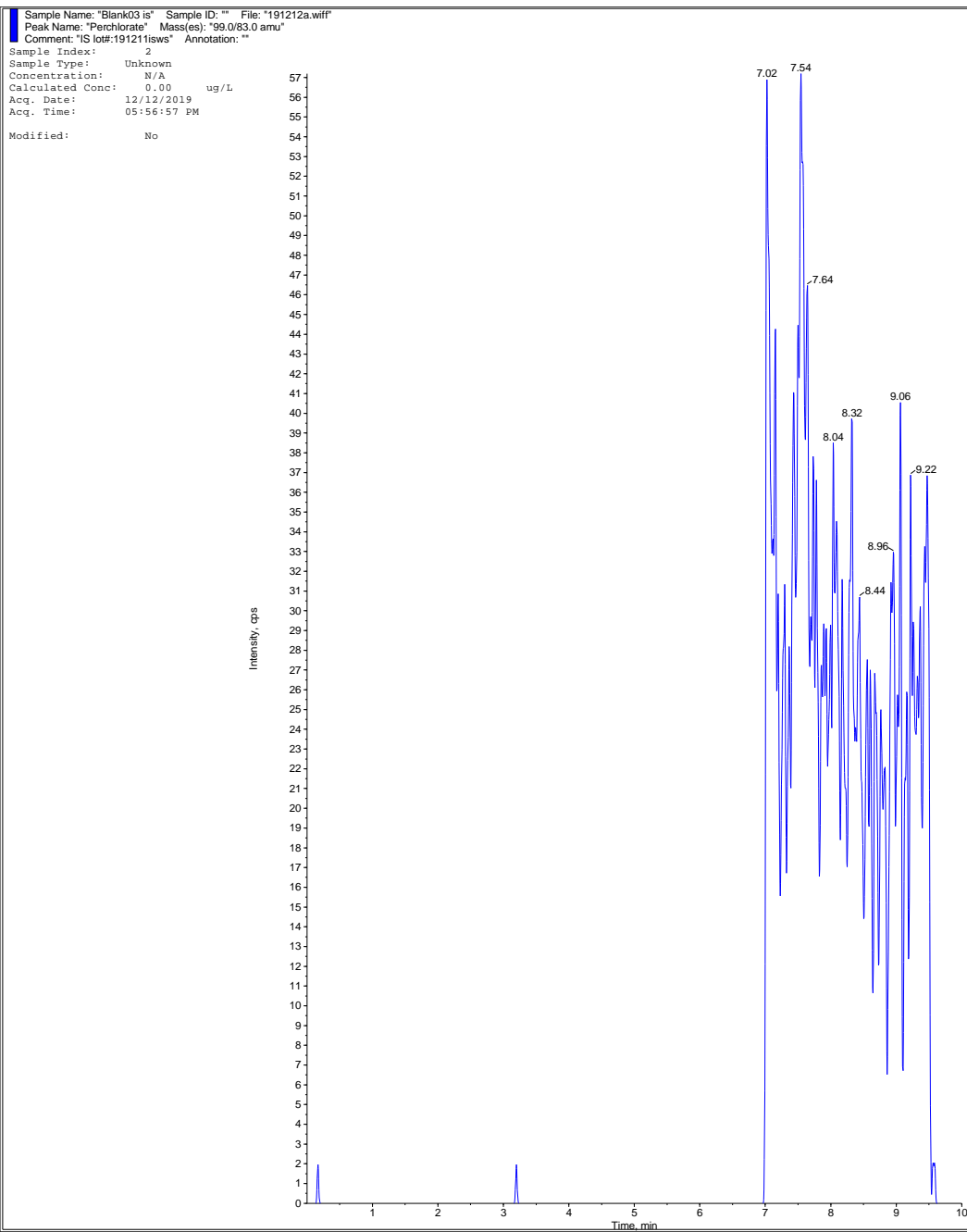
Sample Name: "Blank03 is" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "IS lot#:191211isws" Annotation: ""
Sample Index: 2
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/12/2019
Acq. Time: 05:56:57 PM
Modified: No



Sample Name: "Blank03 is" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "IS lot#:191211isws" Annotation: ""
Sample Index: 2
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/12/2019
Acq. Time: 05:56:57 PM
Modified: No



Collected by: N/A
Electronic Signature: no
Operator: Administrator



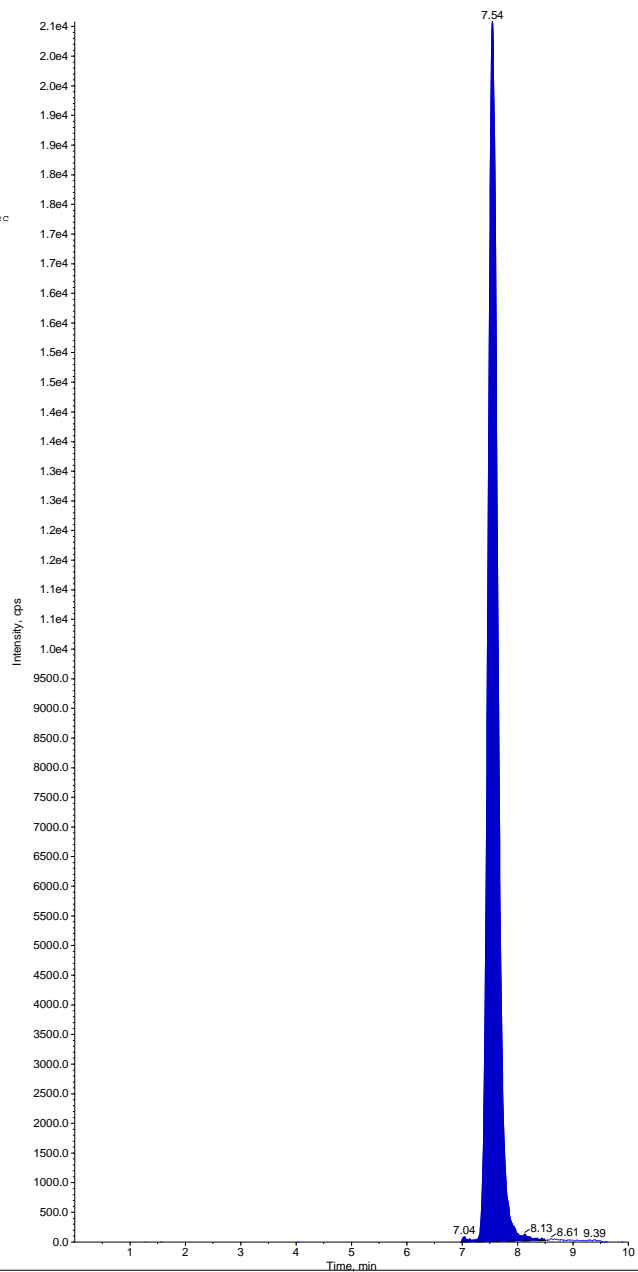
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'Blank03.is' Sample ID: '' File: '191212a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: 'IS lot#:191211isws' Annotation: ''

Sample Index: 2
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 05:56:57 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.54 min
Area: 256000 counts
Height: 20600 cps
Start Time: 6.97 min
End Time: 8.51 min



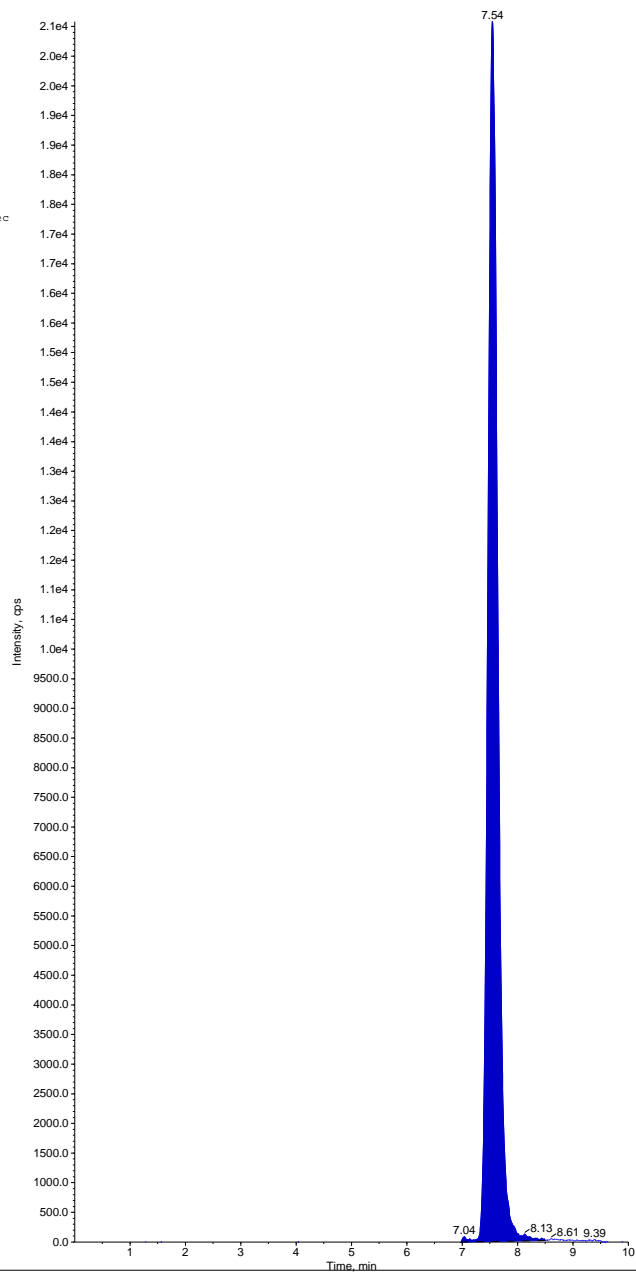
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'Blank03.is' Sample ID: '' File: '191212a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: 'IS lot#:191211isws' Annotation: ''

Sample Index: 2
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 05:56:57 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.54 min
Area: 256000 counts
Height: 20600 cps
Start Time: 6.97 min
End Time: 8.51 min



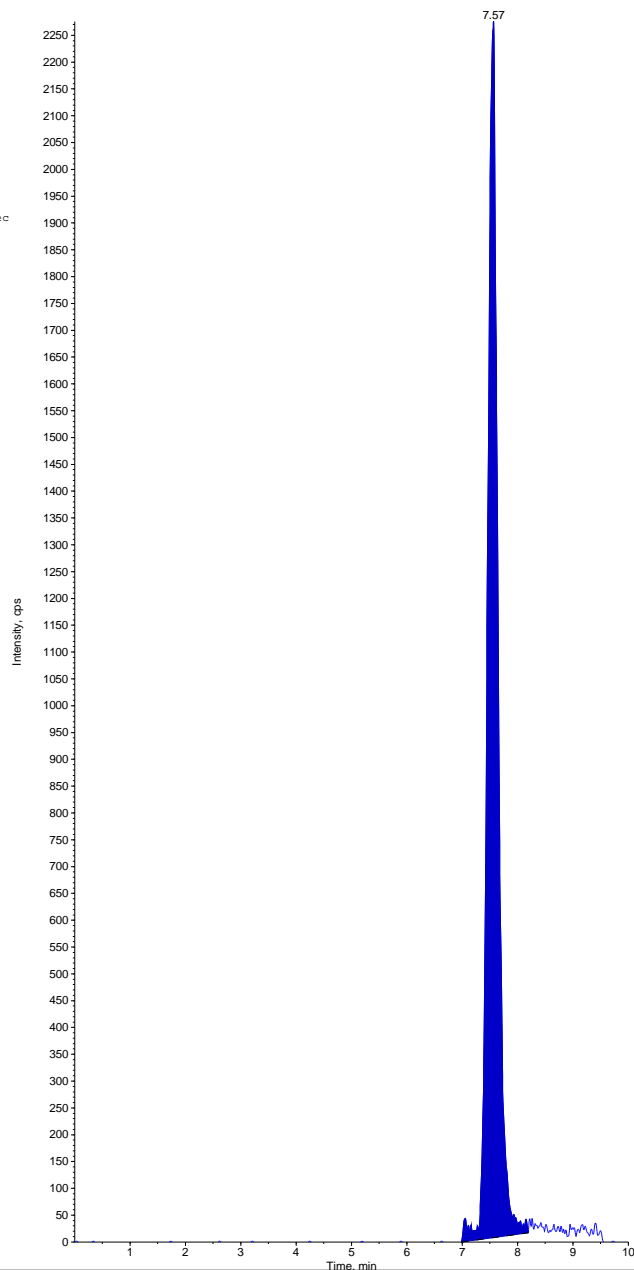
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'ICV 0.1 ppb' Sample ID: '' File: '191212a.wiff'
Peak Name: 'Perchlorate' Mass(es): '99.0/83.0 amu'
Comment: '1912090.10PPB' Annotation: ''

Sample Index: 3
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.112 ug/L
Acq. Date: 12/12/2019
Acq. Time: 06:08:54 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 22
Noise Threshold: 20.00 cps
Area Threshold: 100.00 cps
,Num. Smooths: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.57 min
Area: 30000 counts
Height: 2270 cps
Start Time: 6.98 min
End Time: 8.19 min

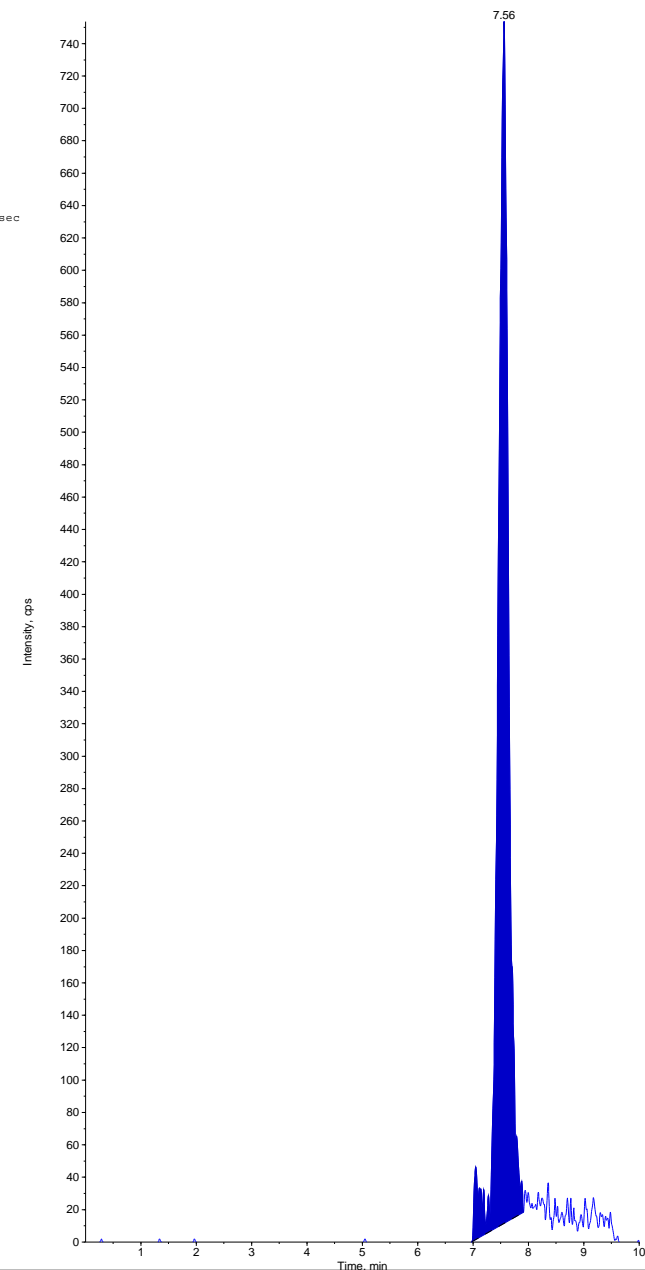


Sample Name: 'ICV 0.1 ppb' Sample ID: '' File: '191212a.wiff'
Peak Name: 'Perchlorate-37' Mass(es): '101.0/85.0 amu'
Comment: '1912090.10PPB' Annotation: ''

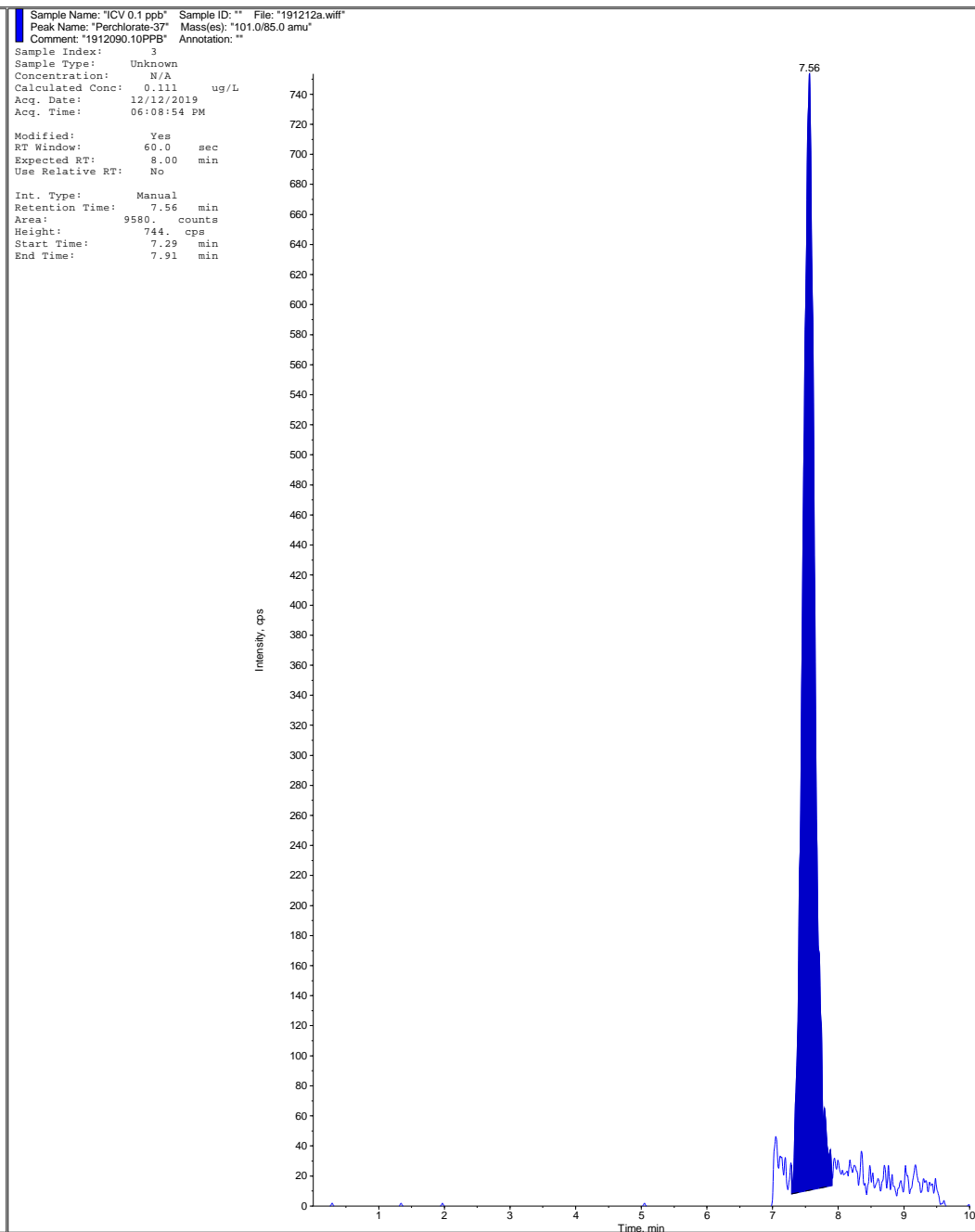
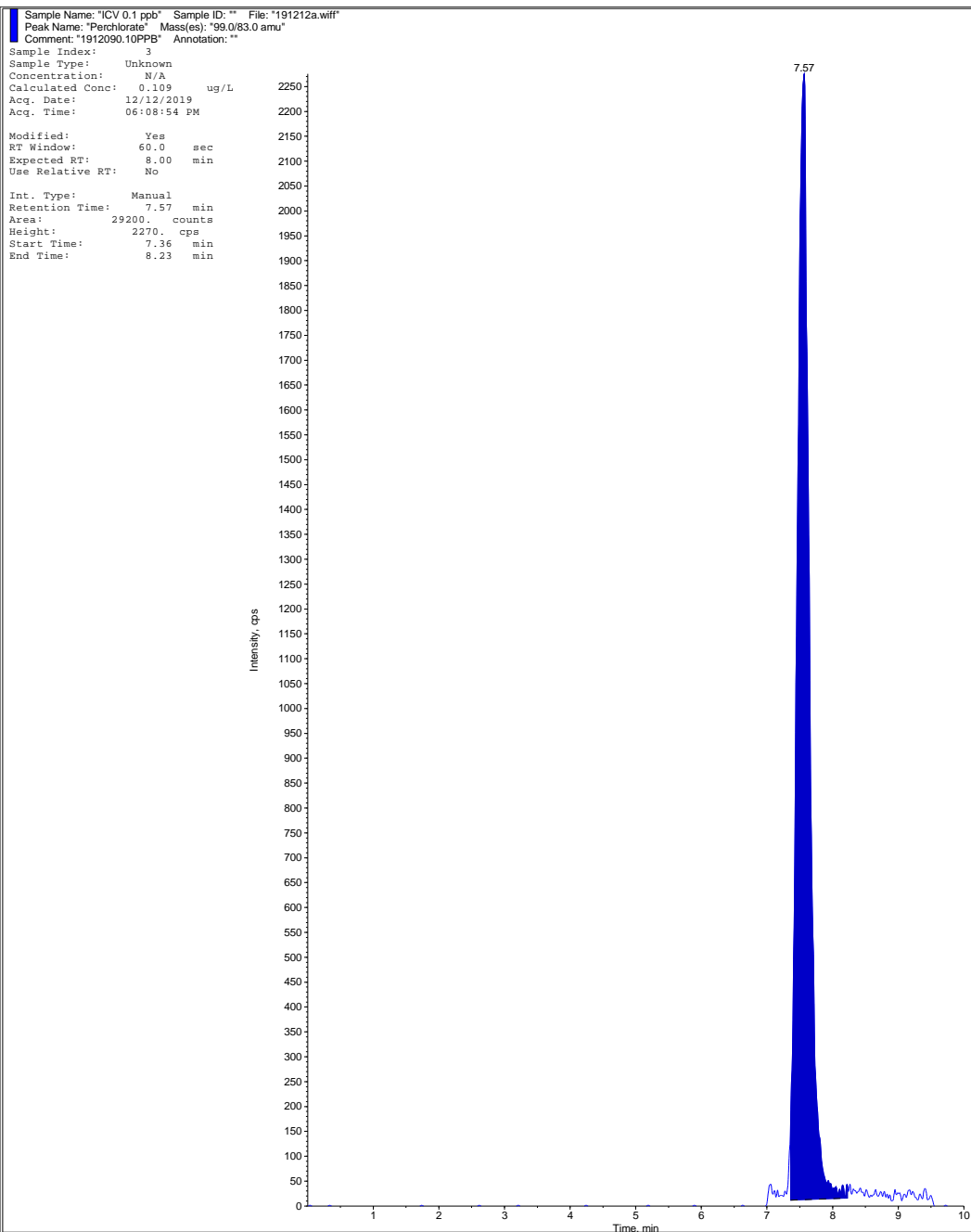
Sample Index: 3
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.115 ug/L
Acq. Date: 12/12/2019
Acq. Time: 06:08:54 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 22
Noise Threshold: 20.00 cps
Area Threshold: 100.00 cps
,Num. Smooths: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.56 min
Area: 9950 counts
Height: 743 cps
Start Time: 6.98 min
End Time: 7.91 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator



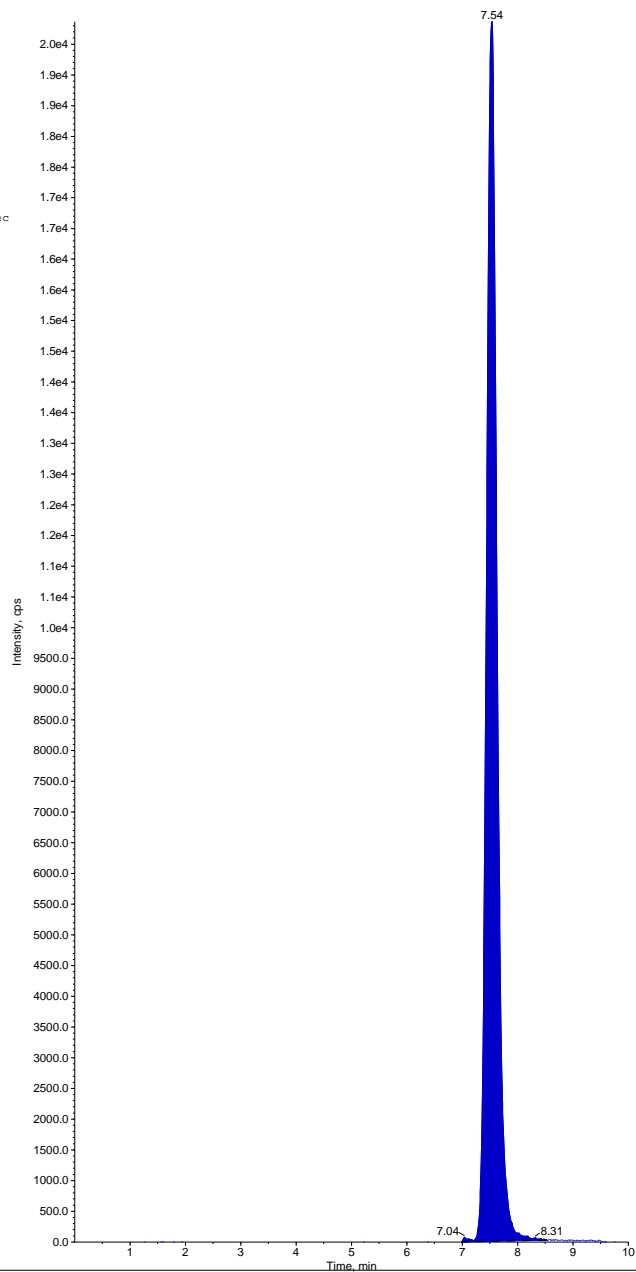
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'ICV 0.1 ppb' Sample ID: '' File: '191212a.wiff'
Peak Name: 'Perchlorate-O18(3)' Mass(es): '107.089.0 amu'
Comment: '1912090.10PPB' Annotation: ''

Sample Index: 3
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 06:08:54 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.54 min
Area: 265000 counts
Height: 19900 cps
Start Time: 6.98 min
End Time: 8.53 min



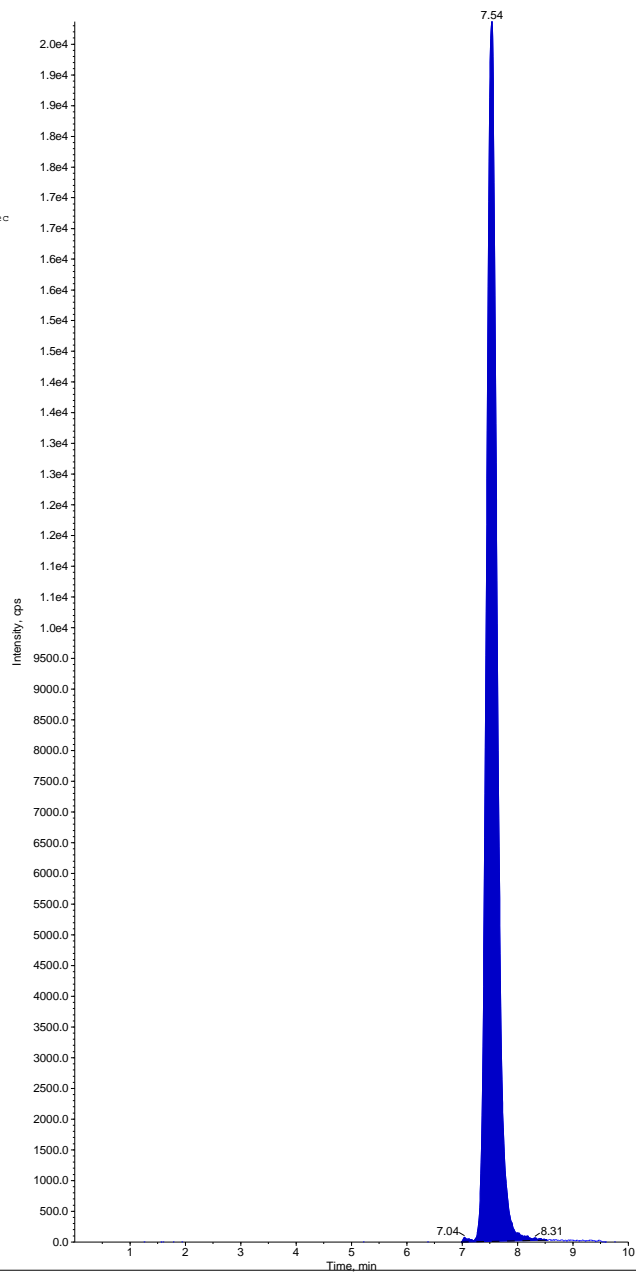
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'ICV 0.1 ppb' Sample ID: '' File: '191212a.wiff'
Peak Name: 'Perchlorate-O18(3)' Mass(es): '107.089.0 amu'
Comment: '1912090.10PPB' Annotation: ''

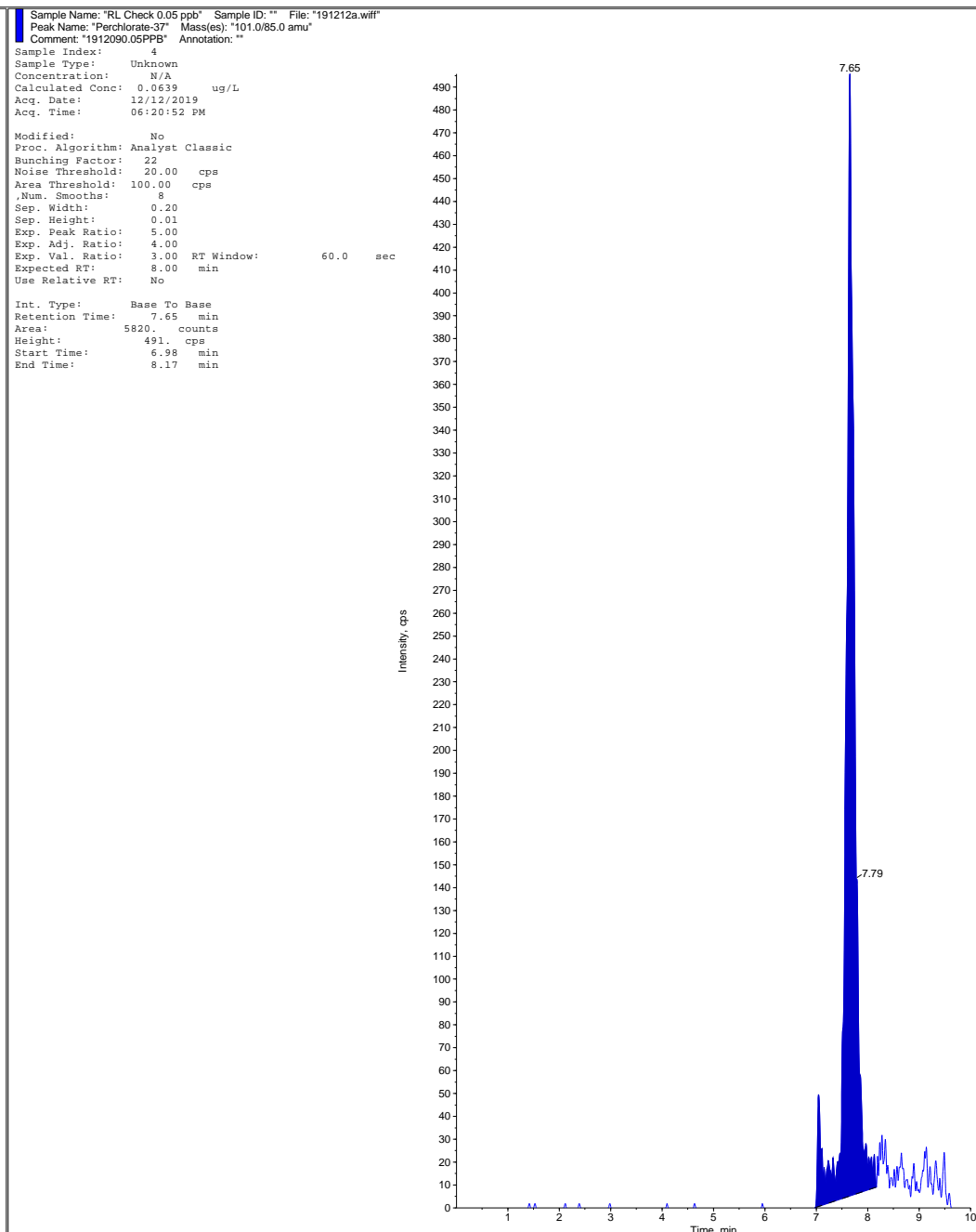
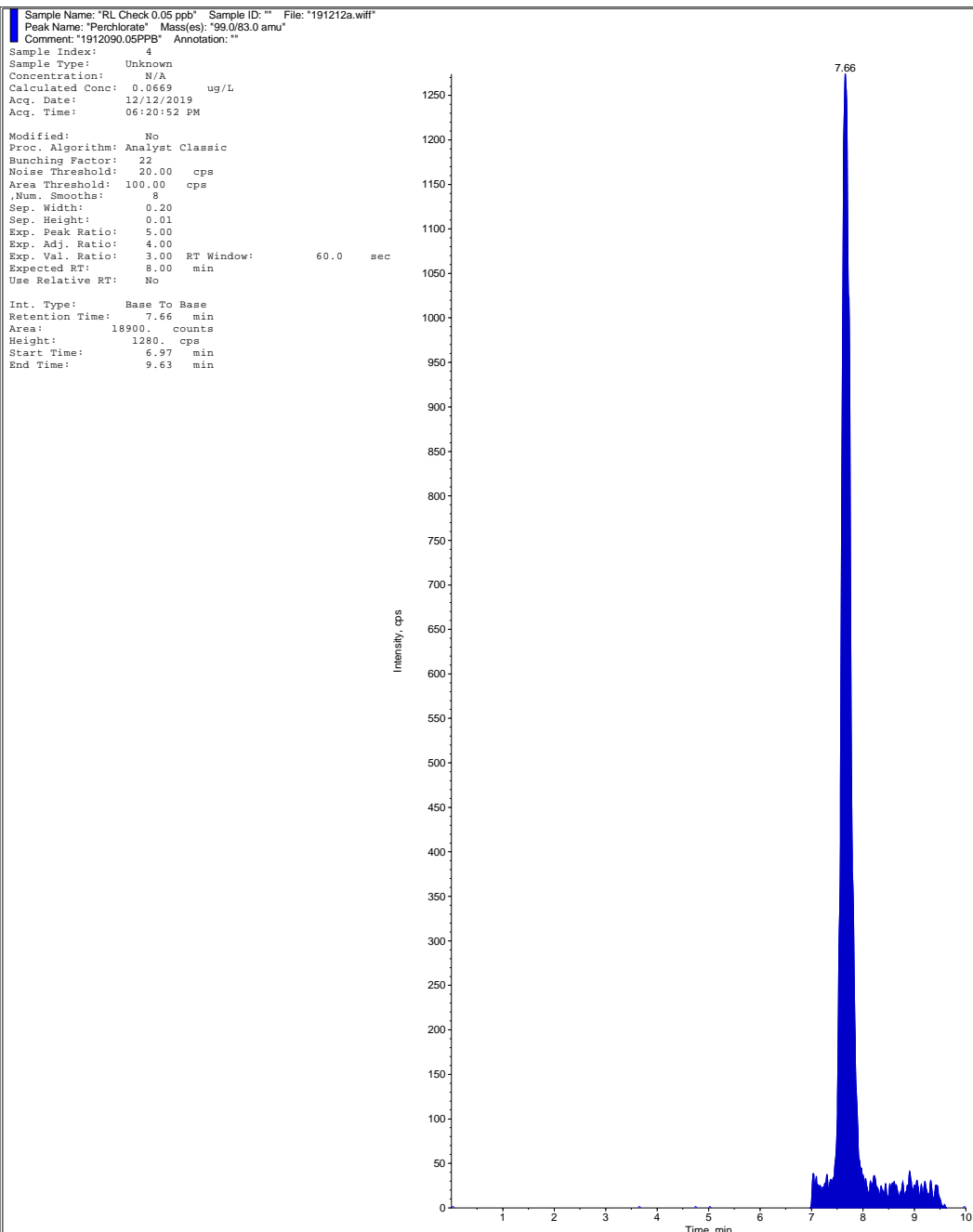
Sample Index: 3
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 06:08:54 PM

Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

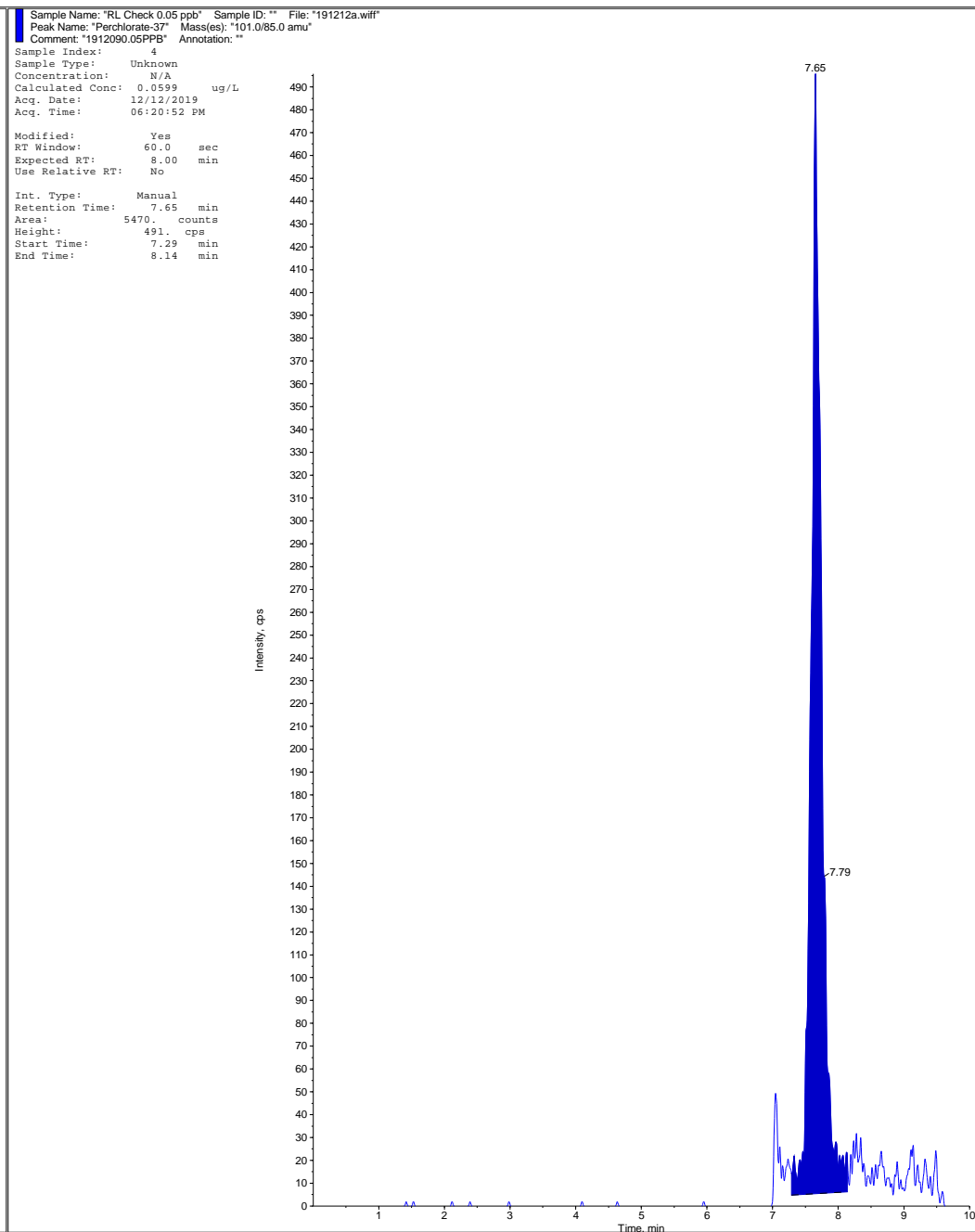
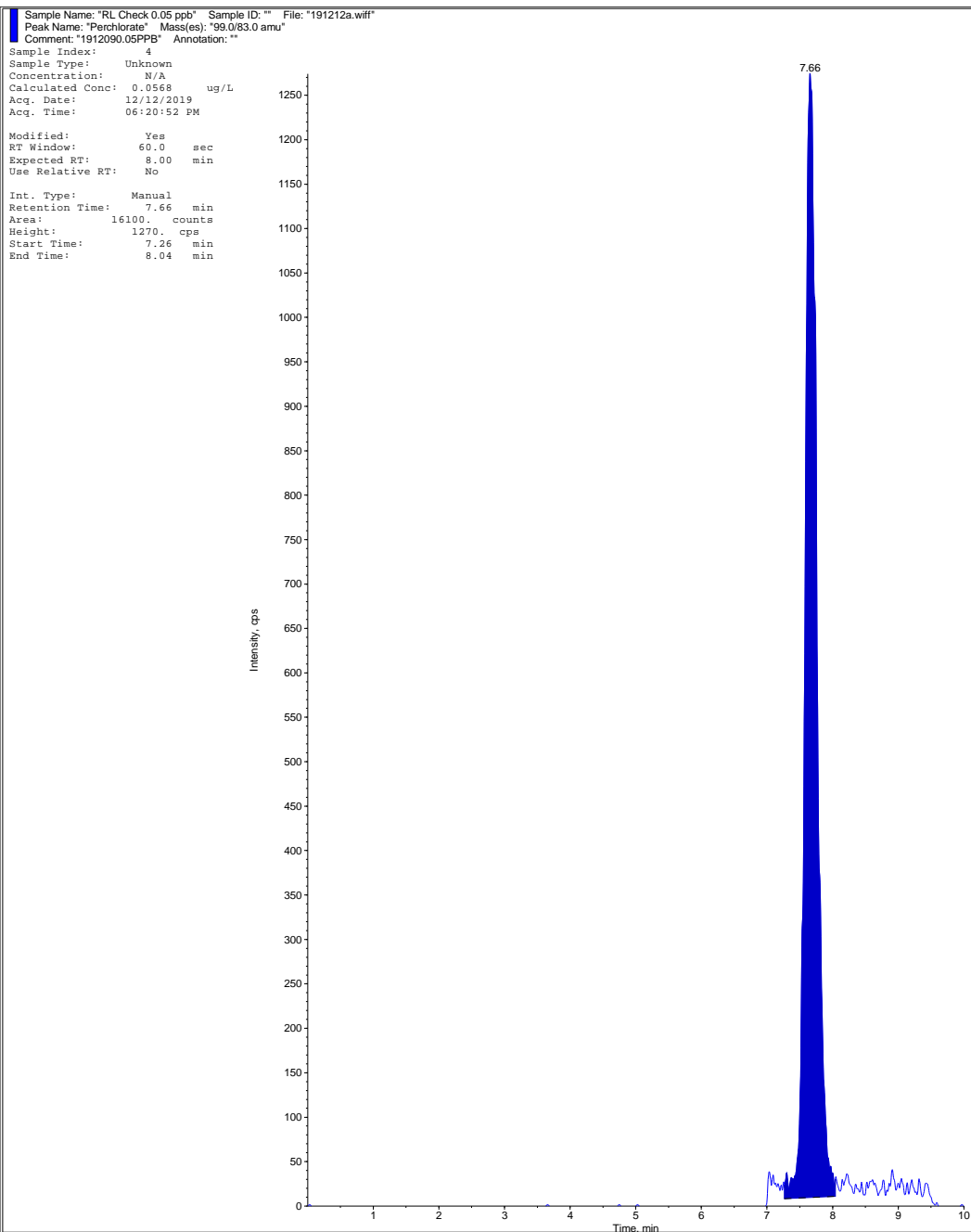
Int. Type: Base To Base
Retention Time: 7.54 min
Area: 265000 counts
Height: 19900 cps
Start Time: 6.98 min
End Time: 8.53 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator



Collected by: N/A
Electronic Signature: no
Operator: Administrator



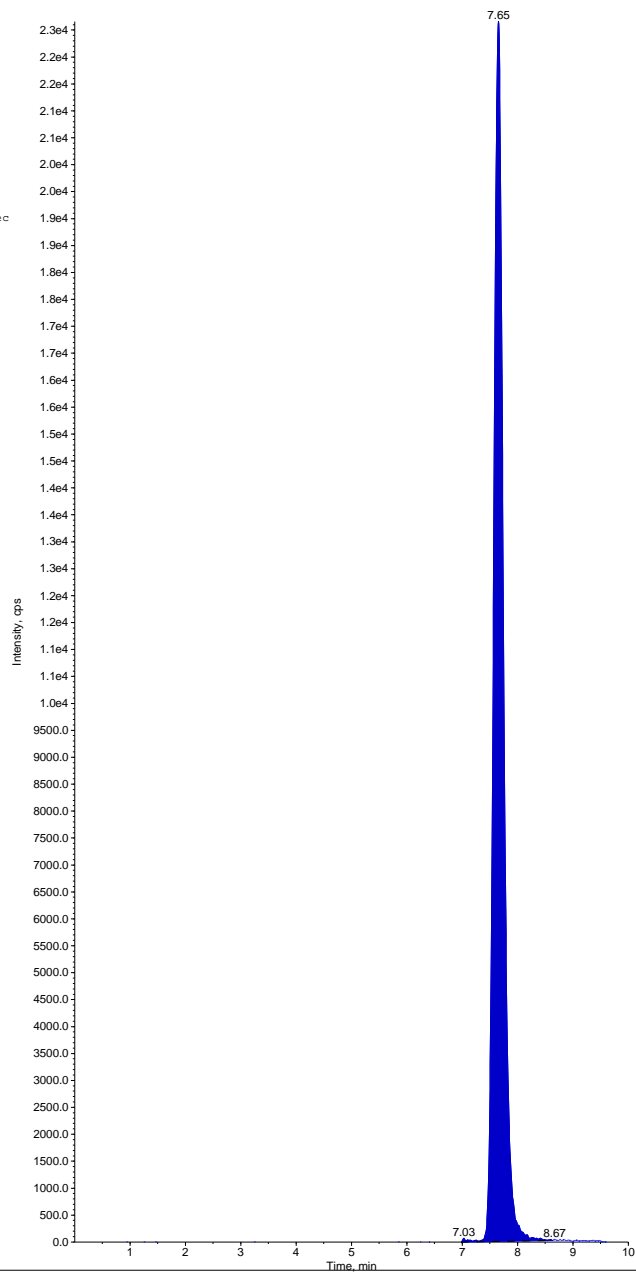
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'RL Check 0.05 ppb' Sample ID: '' File: '191212a.wiff'
Peak Name: 'Perchlorate-019(C)' Mass(es): '107.0/89.0 amu'
Comment: '1912090.05PPB' Annotation: ''

Sample Index: 4
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 06:20:52 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smooths: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.65 min
Area: 277000 counts
Height: 22600 cps
Start Time: 6.98 min
End Time: 8.63 min



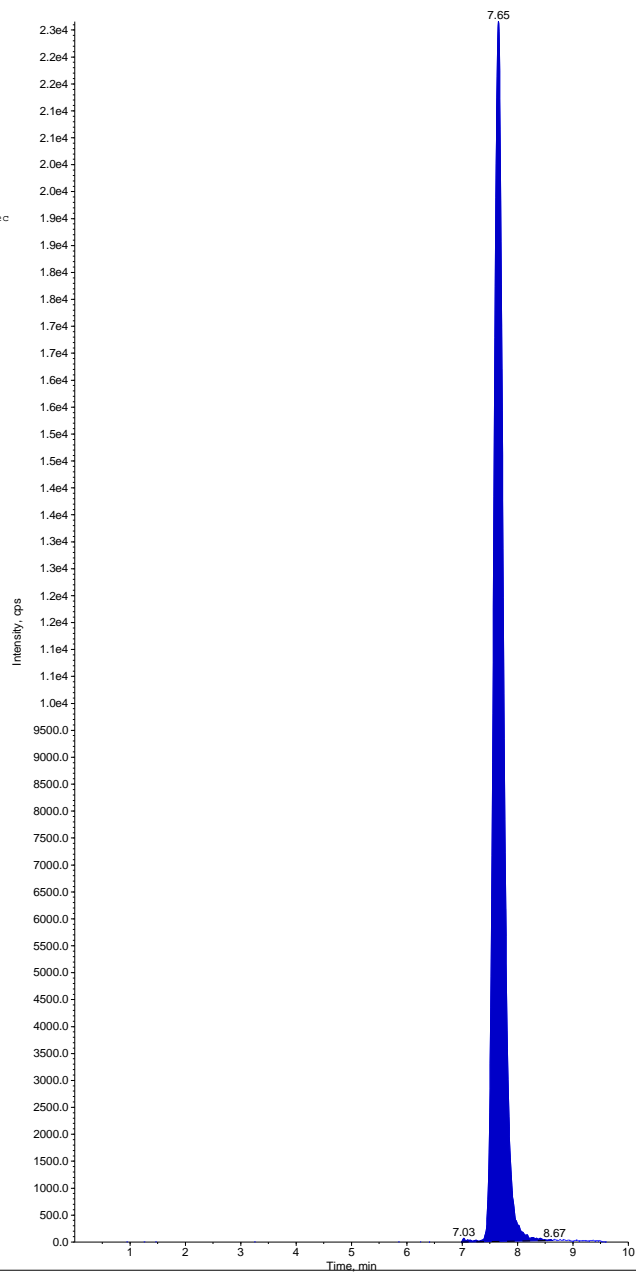
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'RL Check 0.05 ppb' Sample ID: '' File: '191212a.wiff'
Peak Name: 'Perchlorate-019(C)' Mass(es): '107.0/89.0 amu'
Comment: '1912090.05PPB' Annotation: ''

Sample Index: 4
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 06:20:52 PM

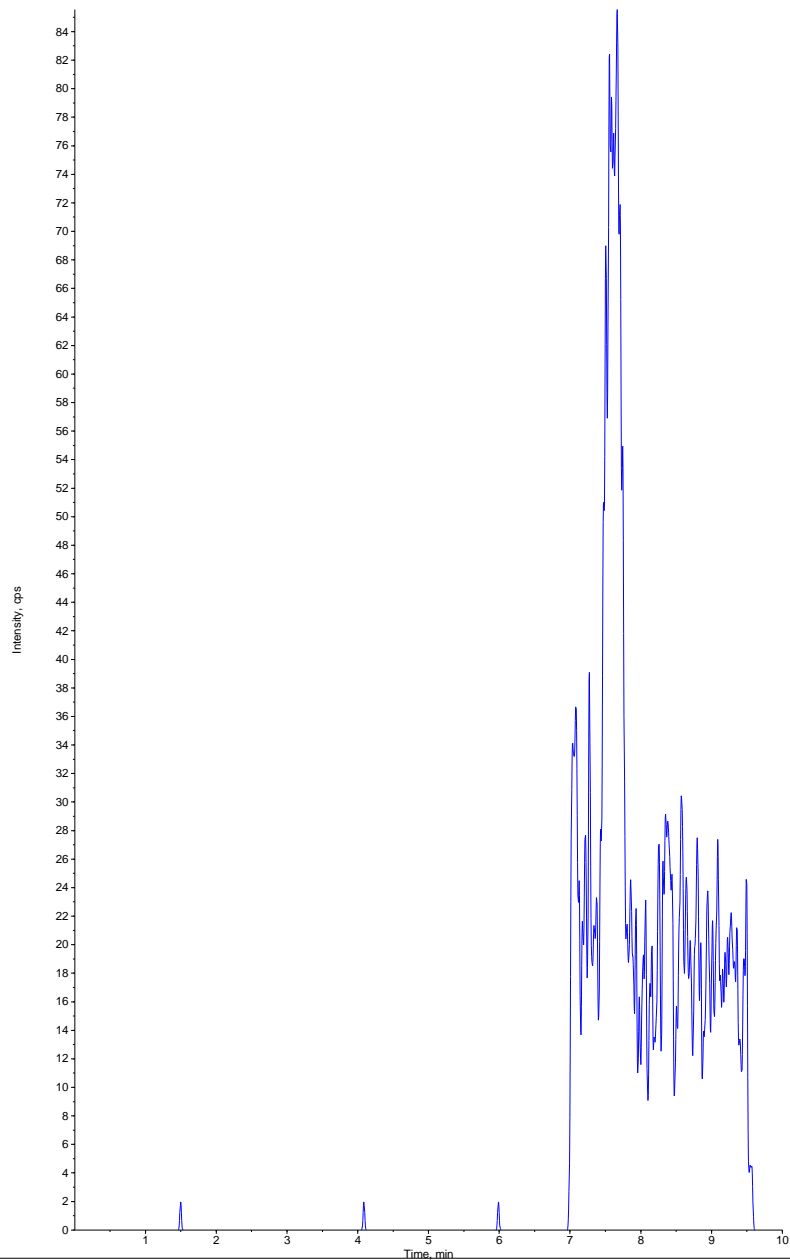
Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.65 min
Area: 277000 counts
Height: 22600 cps
Start Time: 6.98 min
End Time: 8.63 min

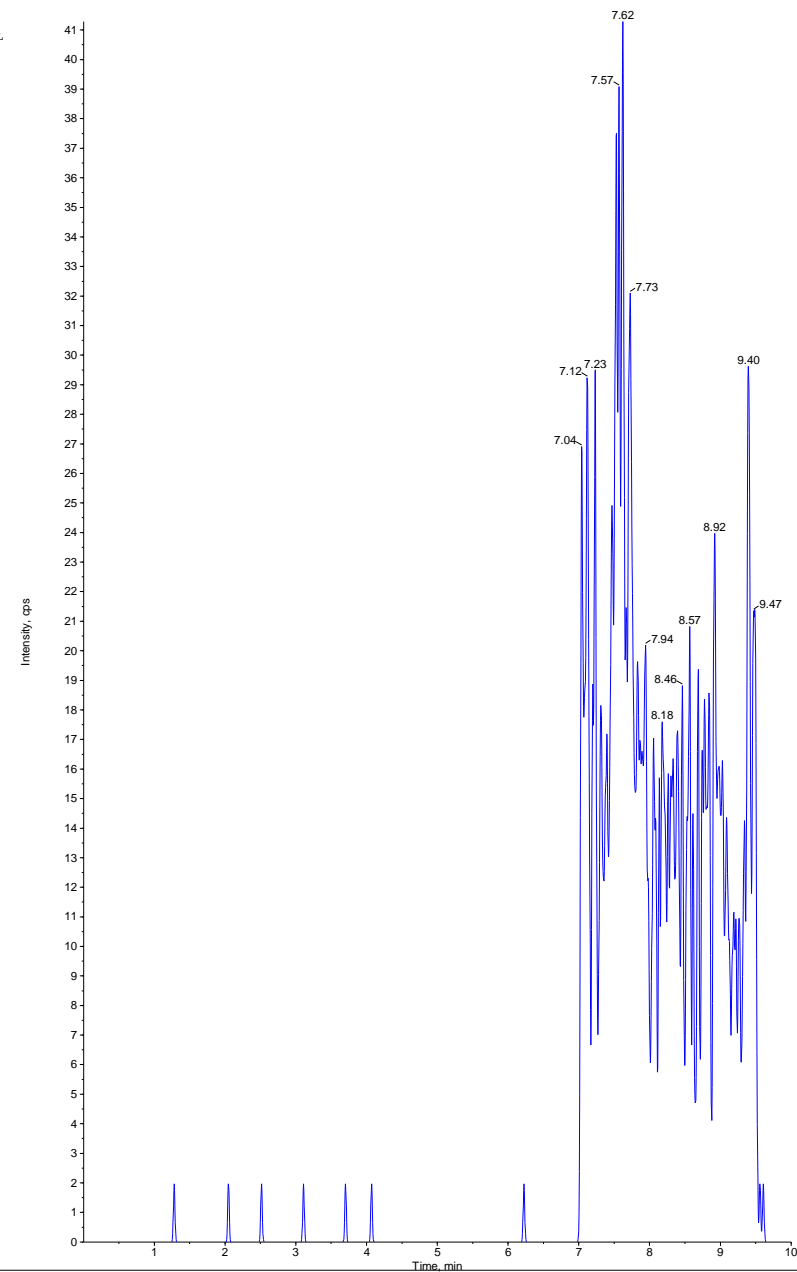


Collected by: N/A
Electronic Signature: no
Operator: Administrator

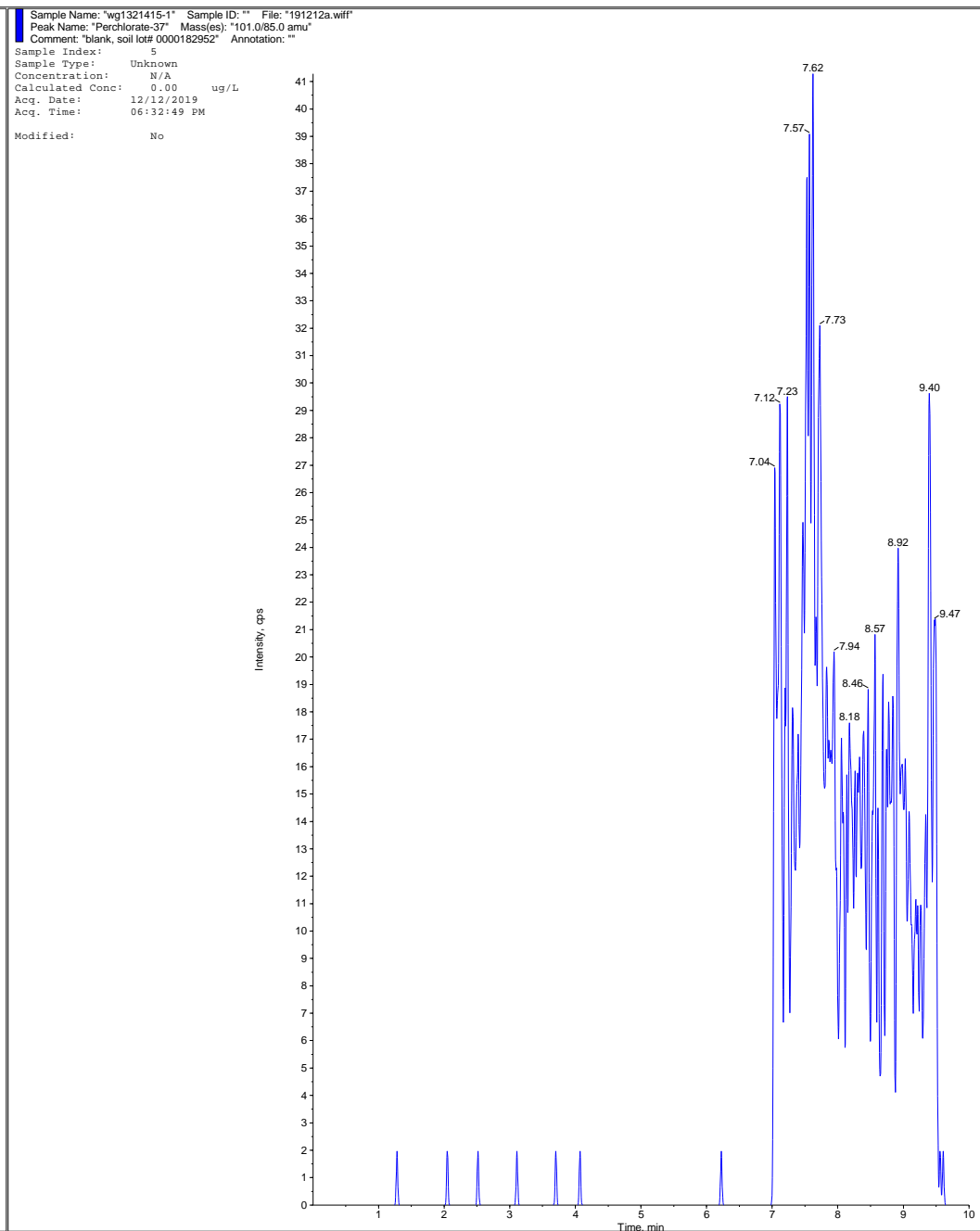
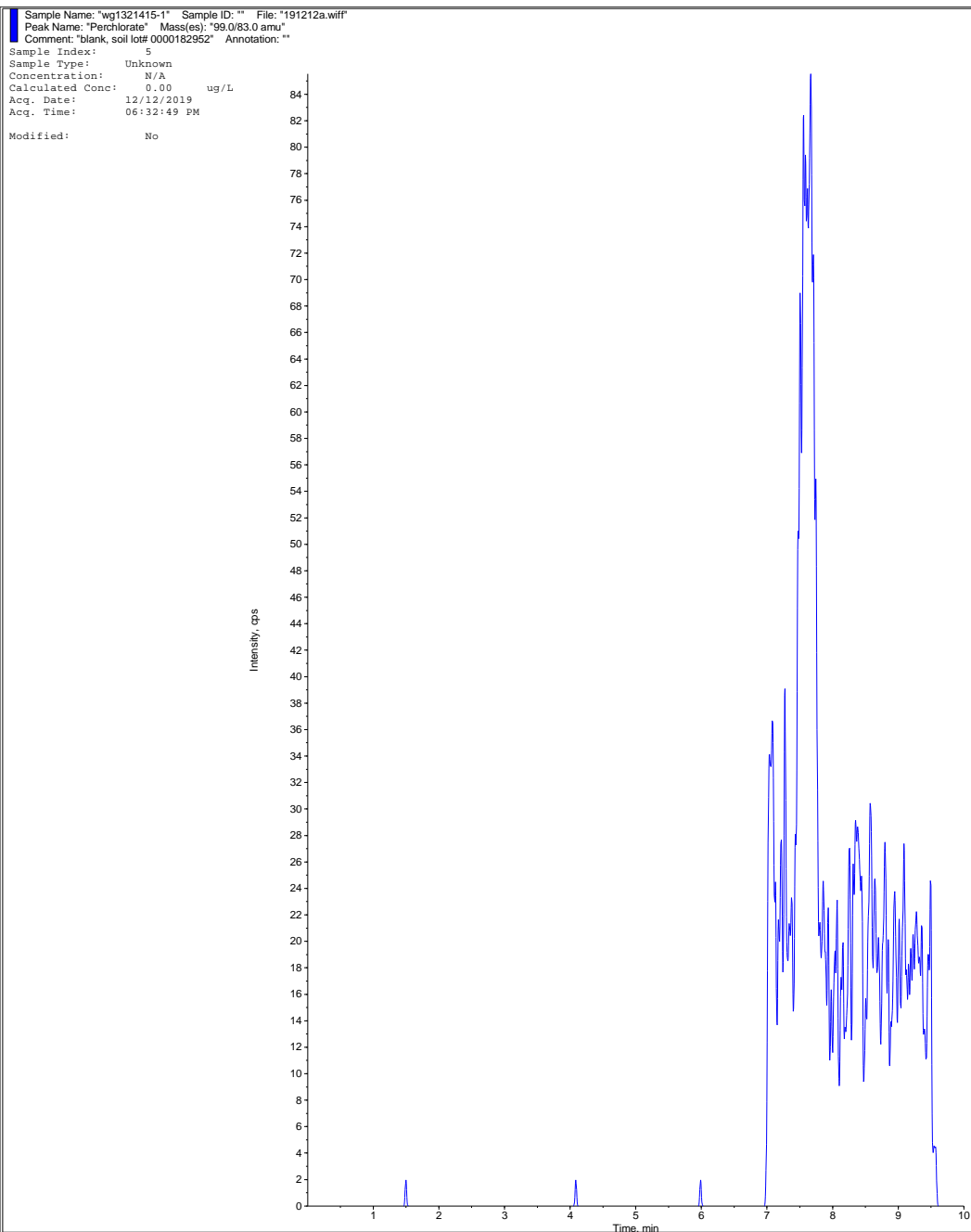
Sample Name: "wg1321415-1" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "blank, soil lot# 0000182952" Annotation: ""
Sample Index: 5
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/12/2019
Acq. Time: 06:32:49 PM
Modified: No



Sample Name: "wg1321415-1" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "blank, soil lot# 0000182952" Annotation: ""
Sample Index: 5
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/12/2019
Acq. Time: 06:32:49 PM
Modified: No



Collected by: N/A
Electronic Signature: no
Operator: Administrator



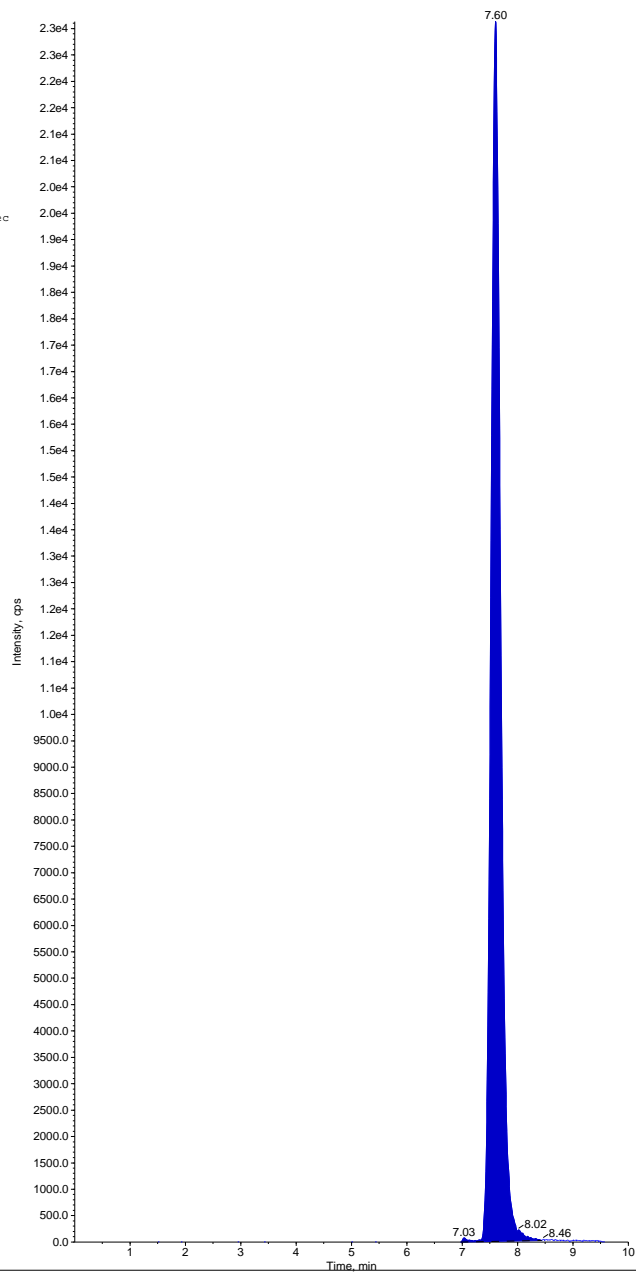
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'wg1321415-1' Sample ID: '' File: '191212a.wiff'
Peak Name: 'Perchlorate-O18(3)' Mass(es): '107.089.0 amu'
Comment: 'blank, soil lot# 0000182952' Annotation: ''

Sample Index: 5
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 06:32:49 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smooths: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.60 min
Area: 283000 counts
Height: 23100 cps
Start Time: 6.97 min
End Time: 8.44 min



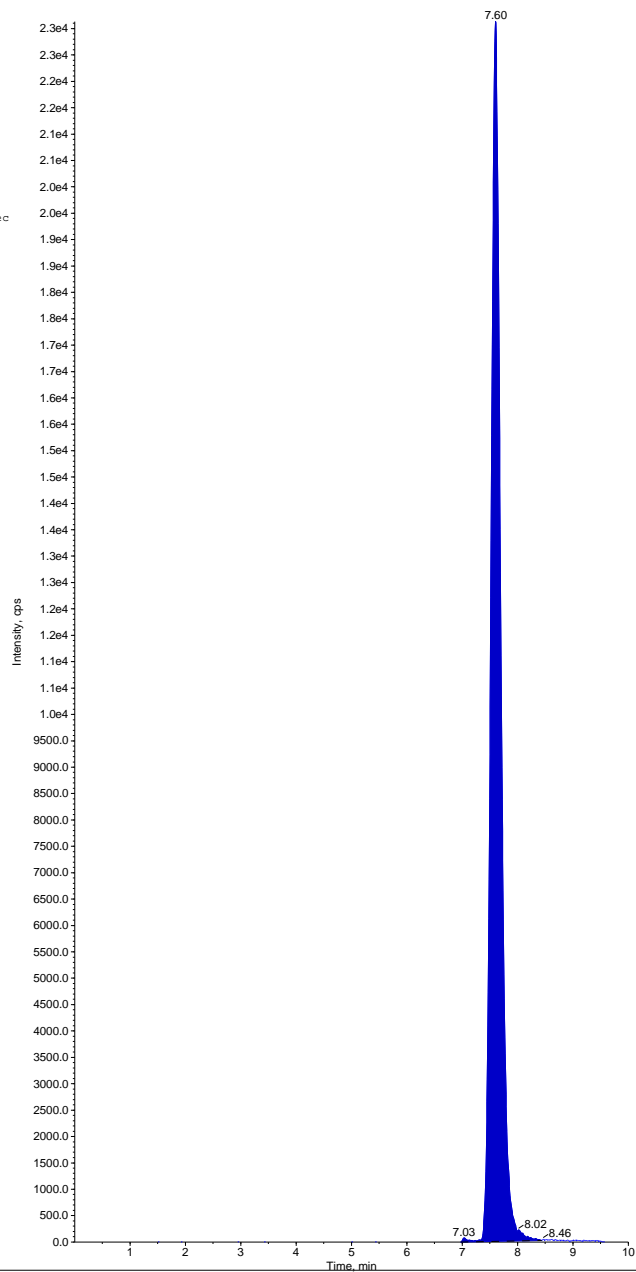
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'wg1321415-1' Sample ID: '' File: '191212a.wiff'
Peak Name: 'Perchlorate-O18(3)' Mass(es): '107.089.0 amu'
Comment: 'blank, soil lot# 0000182952' Annotation: ''

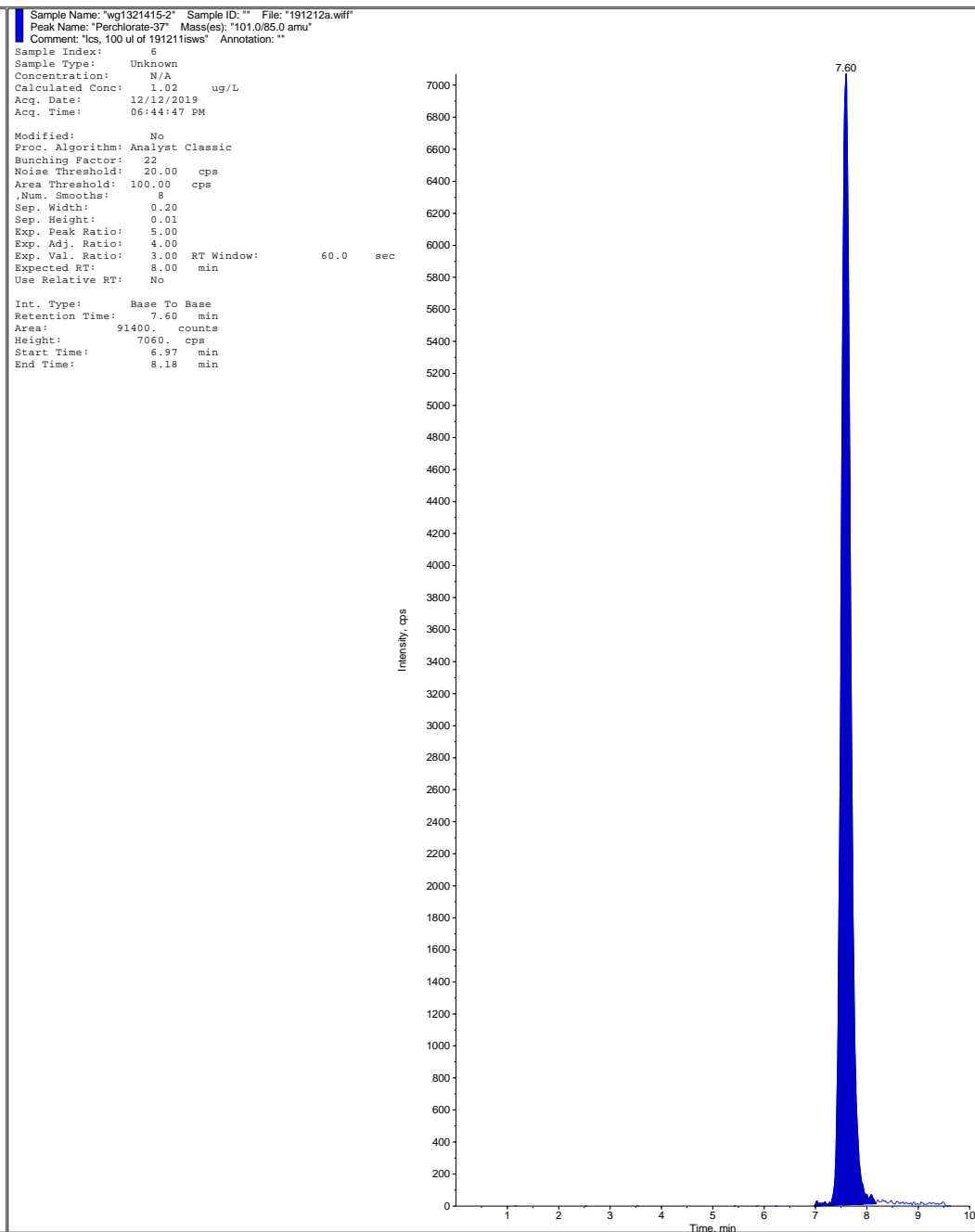
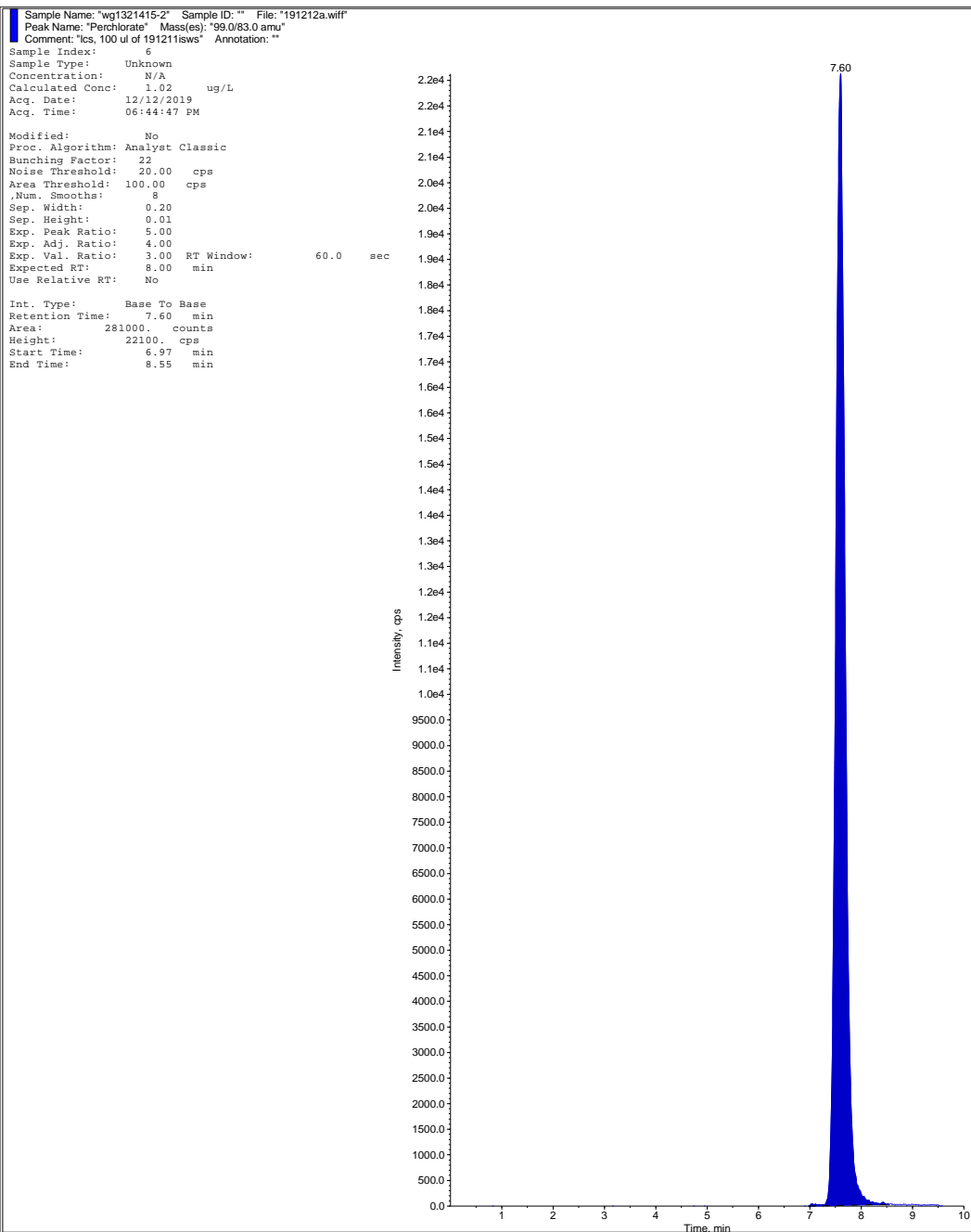
Sample Index: 5
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 06:32:49 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
,Num. Smooths: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

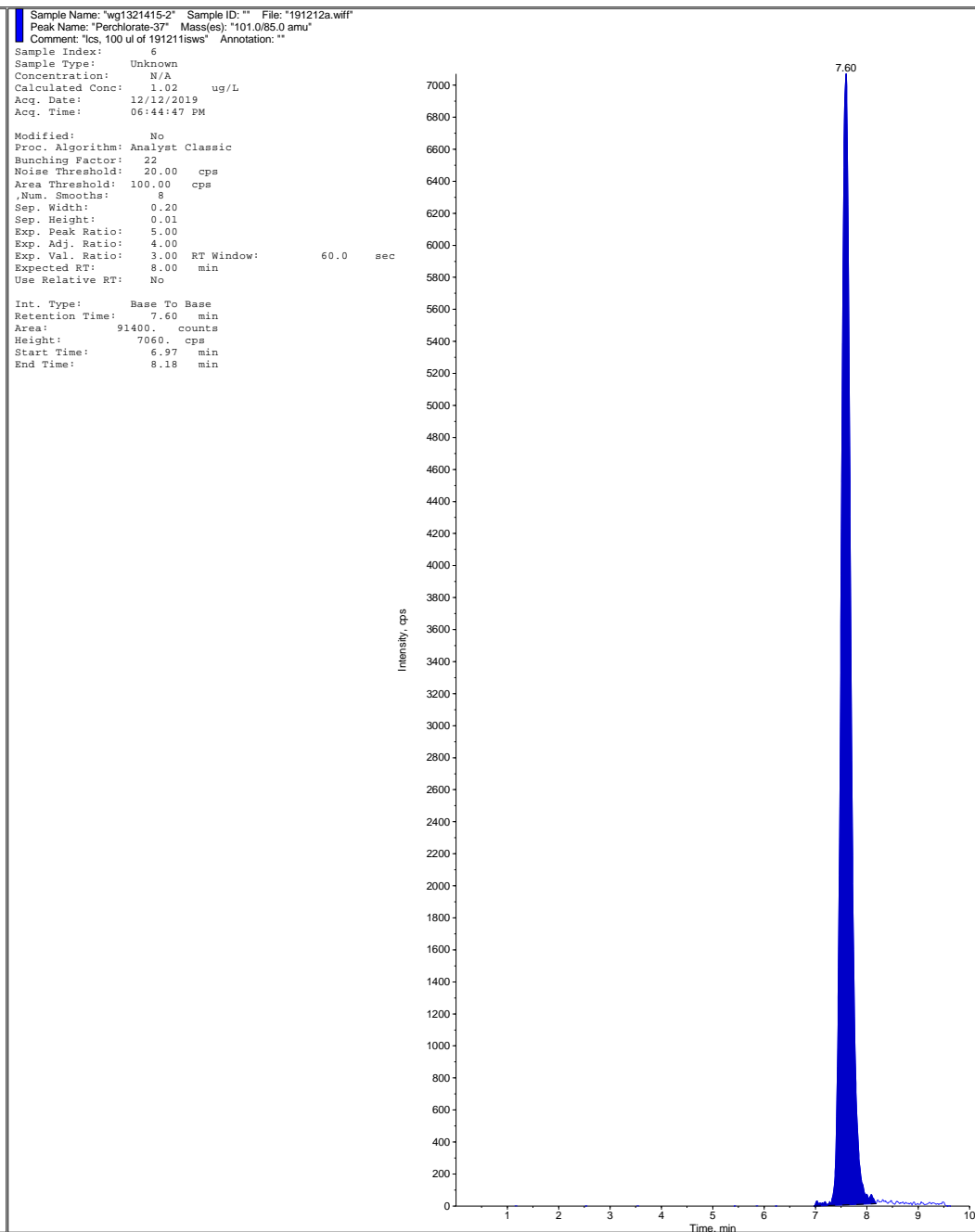
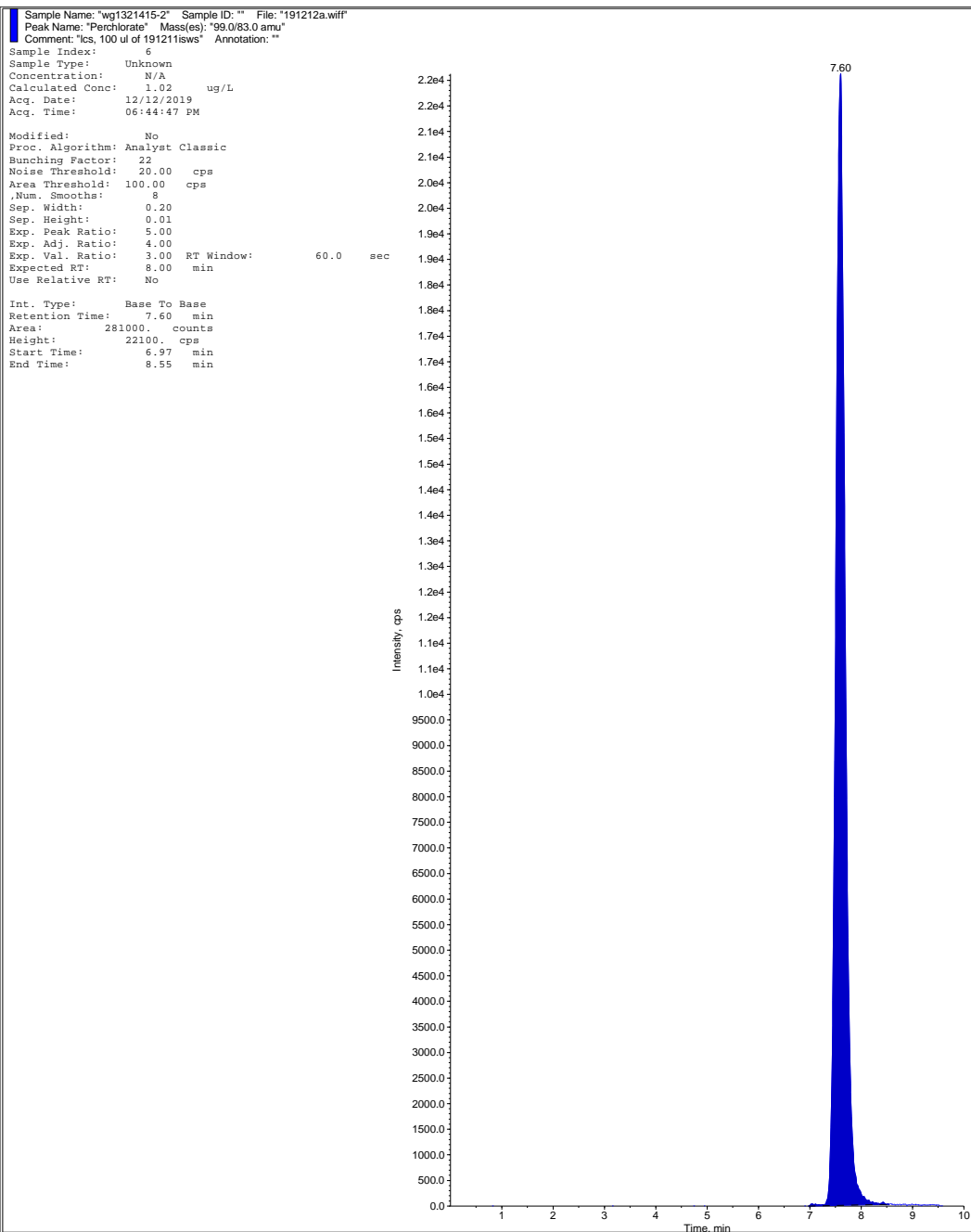
Int. Type: Base To Base
Retention Time: 7.60 min
Area: 283000 counts
Height: 23100 cps
Start Time: 6.97 min
End Time: 8.44 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator



Collected by: N/A
Electronic Signature: no
Operator: Administrator



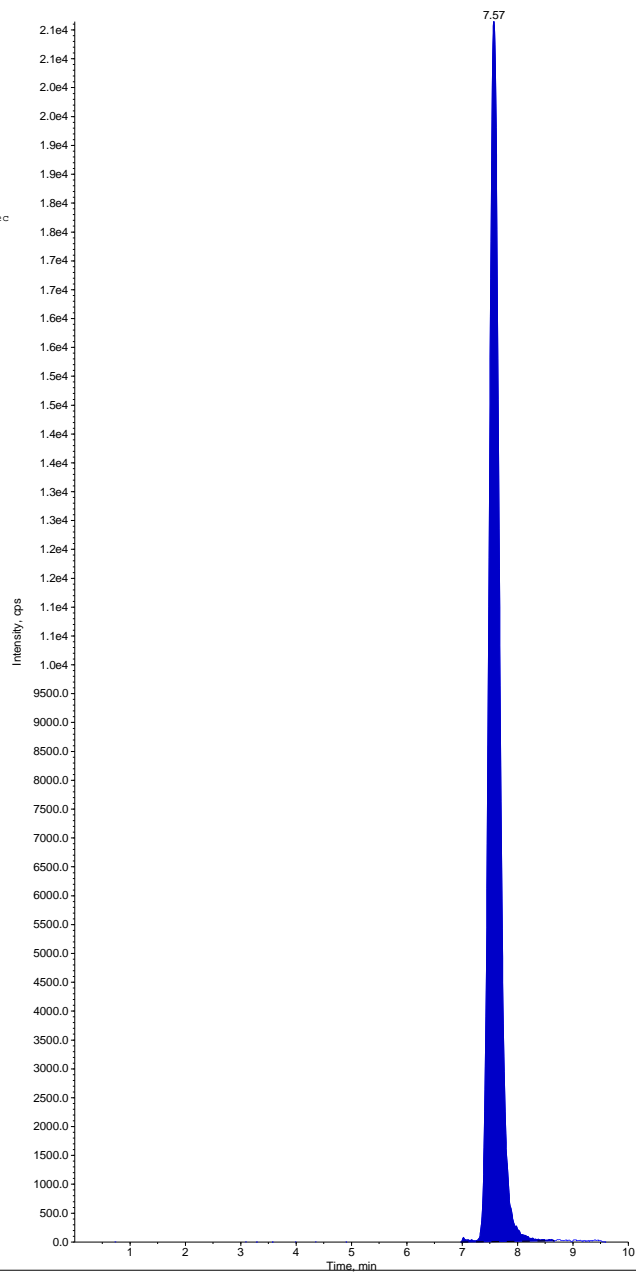
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'wg1321415-2' Sample ID: '' File: '191212a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.0/89.0 amu'
Comment: '1cs, 100 ul of 191211isws' Annotation: ''

Sample Index: 6
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 06:44:47 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.57 min
Area: 279000 counts
Height: 21100 cps
Start Time: 6.97 min
End Time: 8.66 min



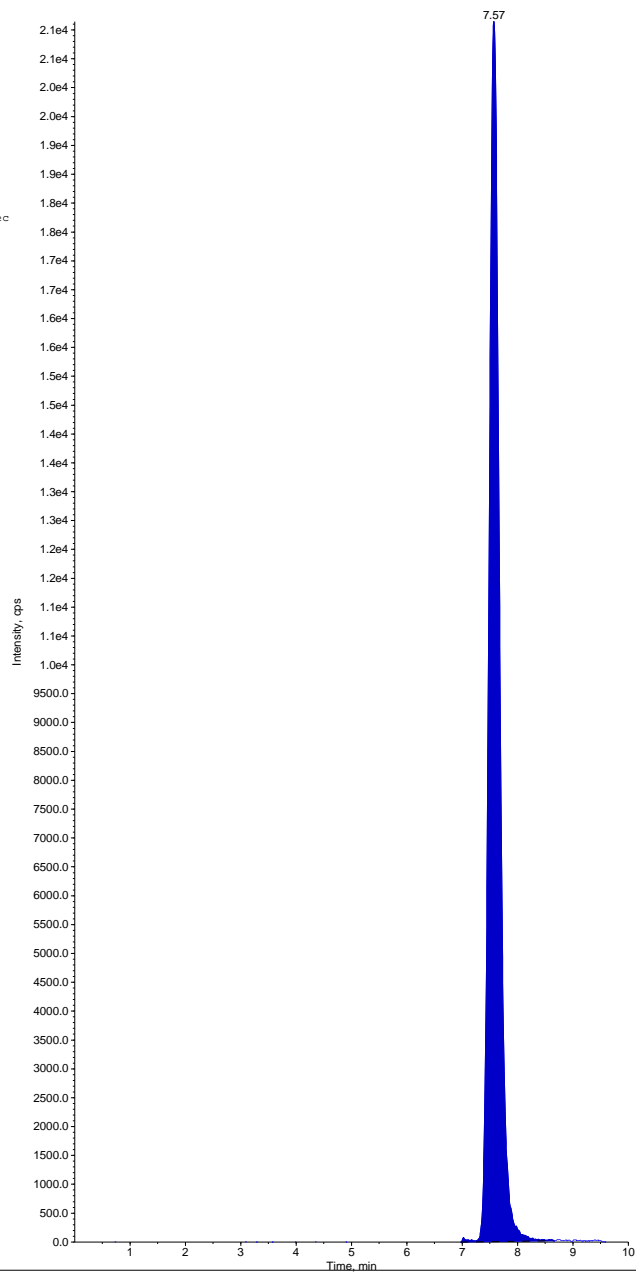
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'wg1321415-2' Sample ID: '' File: '191212a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.0/89.0 amu'
Comment: 'lcs, 100 ul of 191211isws' Annotation: ''

Sample Index: 6
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 06:44:47 PM

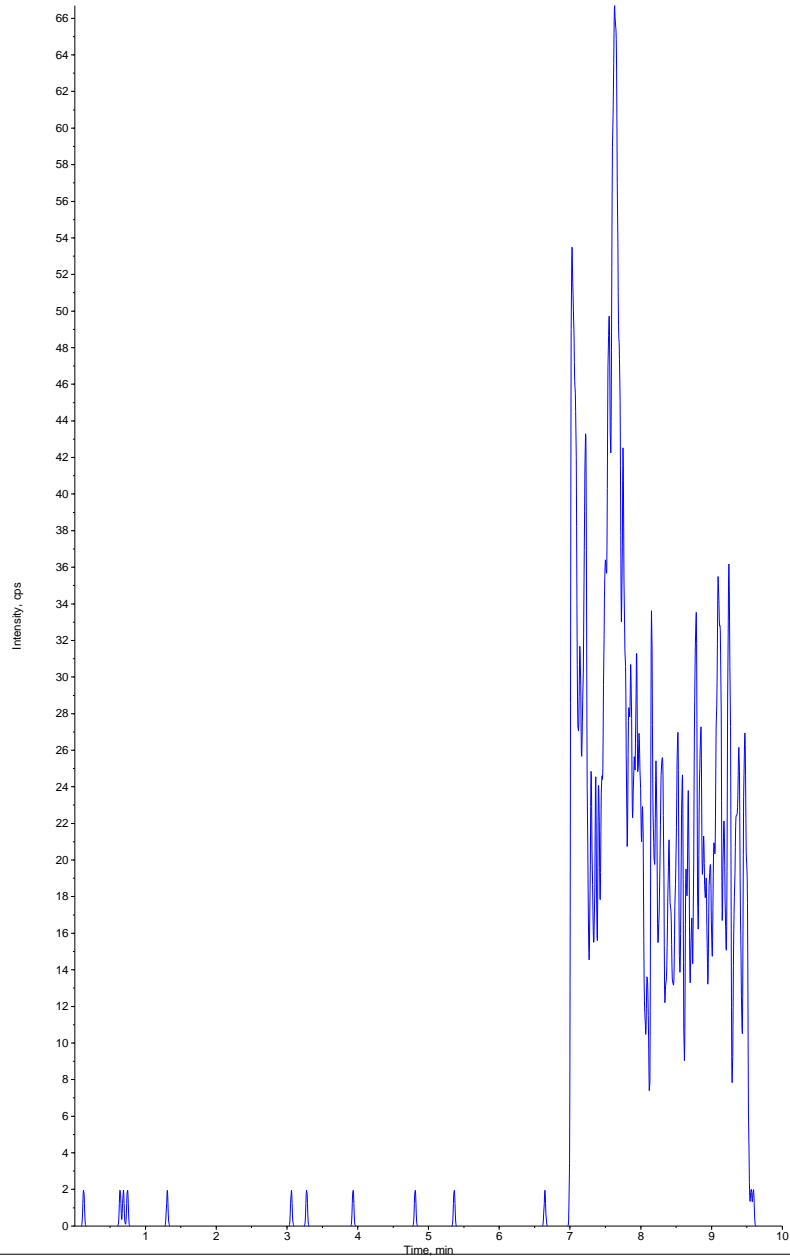
Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smooths: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.57 min
Area: 279000 counts
Height: 21100 cps
Start Time: 6.97 min
End Time: 8.66 min

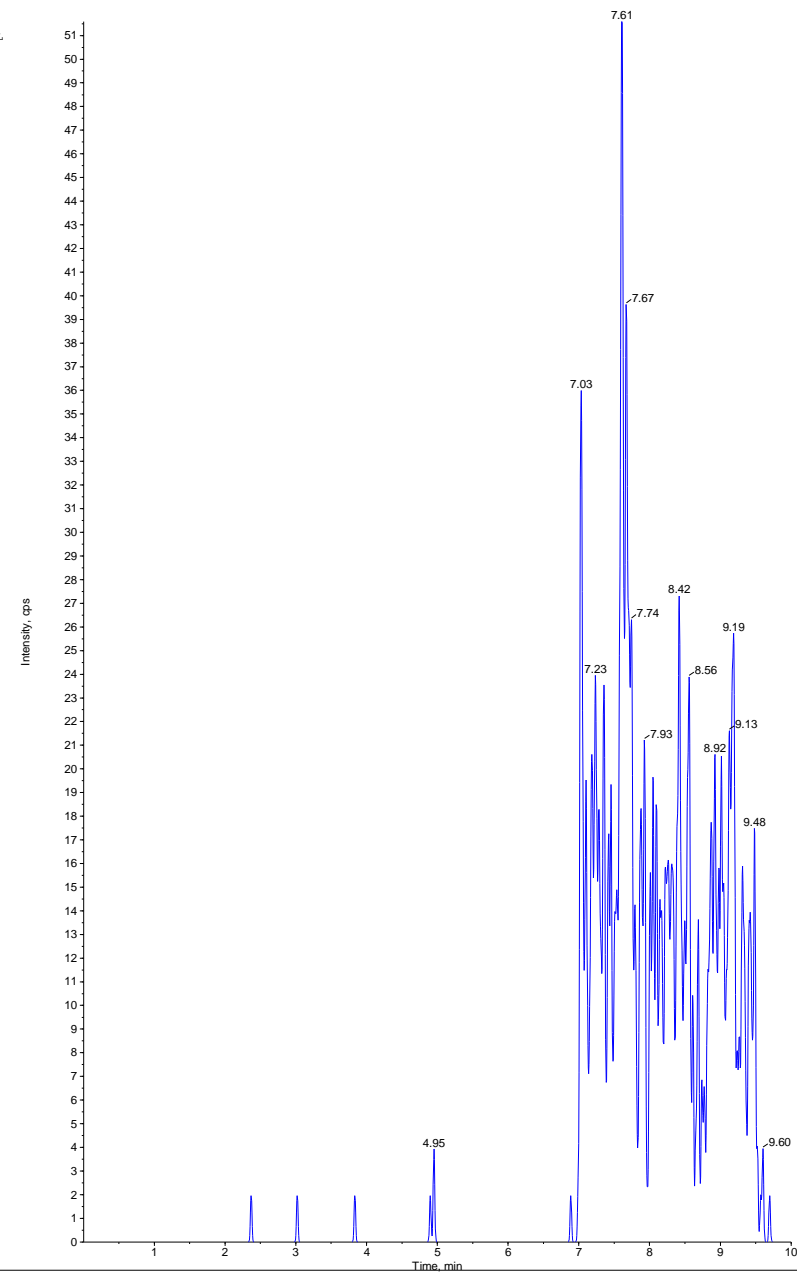


Collected by: N/A
Electronic Signature: no
Operator: Administrator

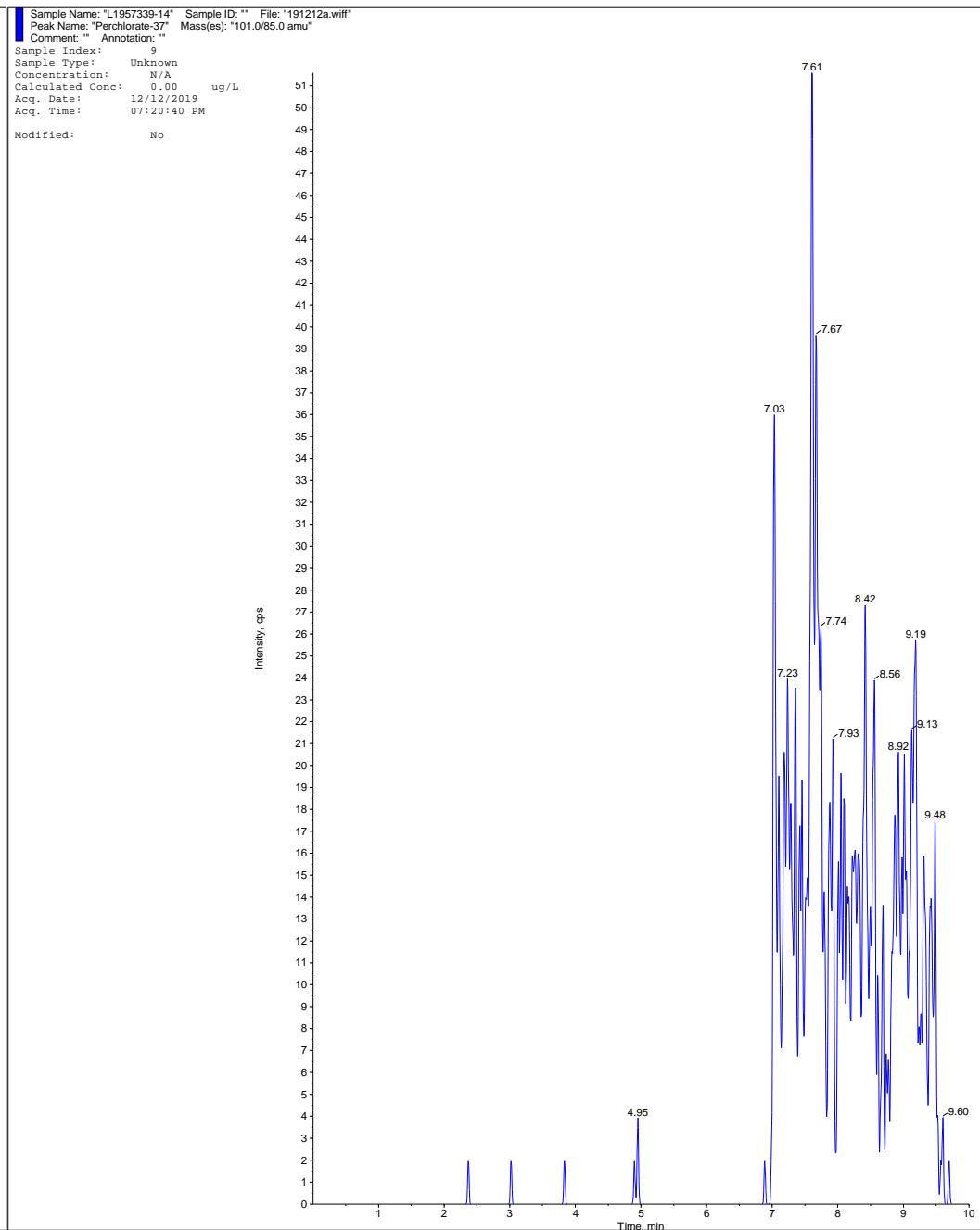
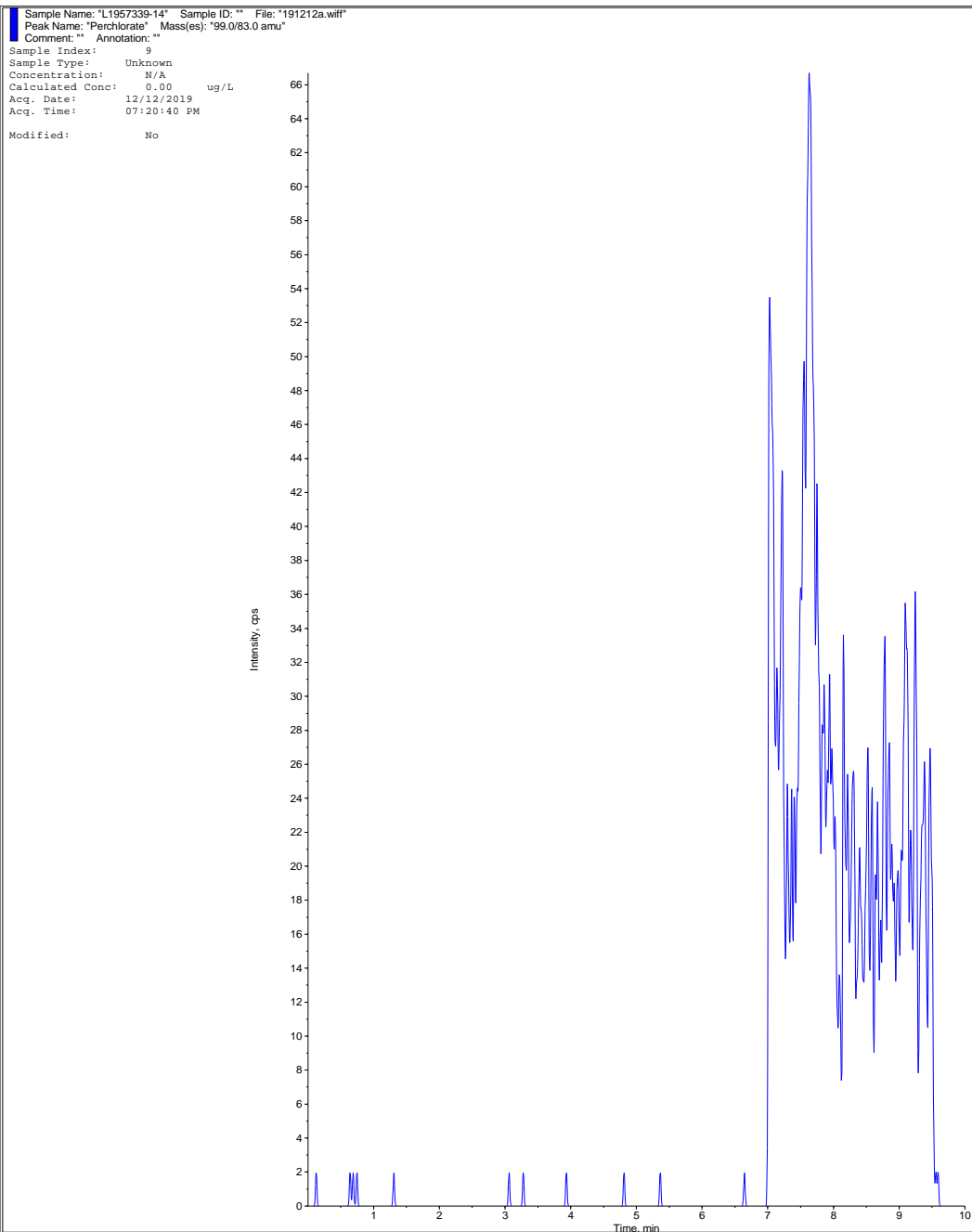
Sample Name: "L1957339-14" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "" Annotation: ""
Sample Index: 9
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/12/2019
Acq. Time: 07:20:40 PM
Modified: No



Sample Name: "L1957339-14" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "" Annotation: ""
Sample Index: 9
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/12/2019
Acq. Time: 07:20:40 PM
Modified: No



Collected by: N/A
Electronic Signature: no
Operator: Administrator



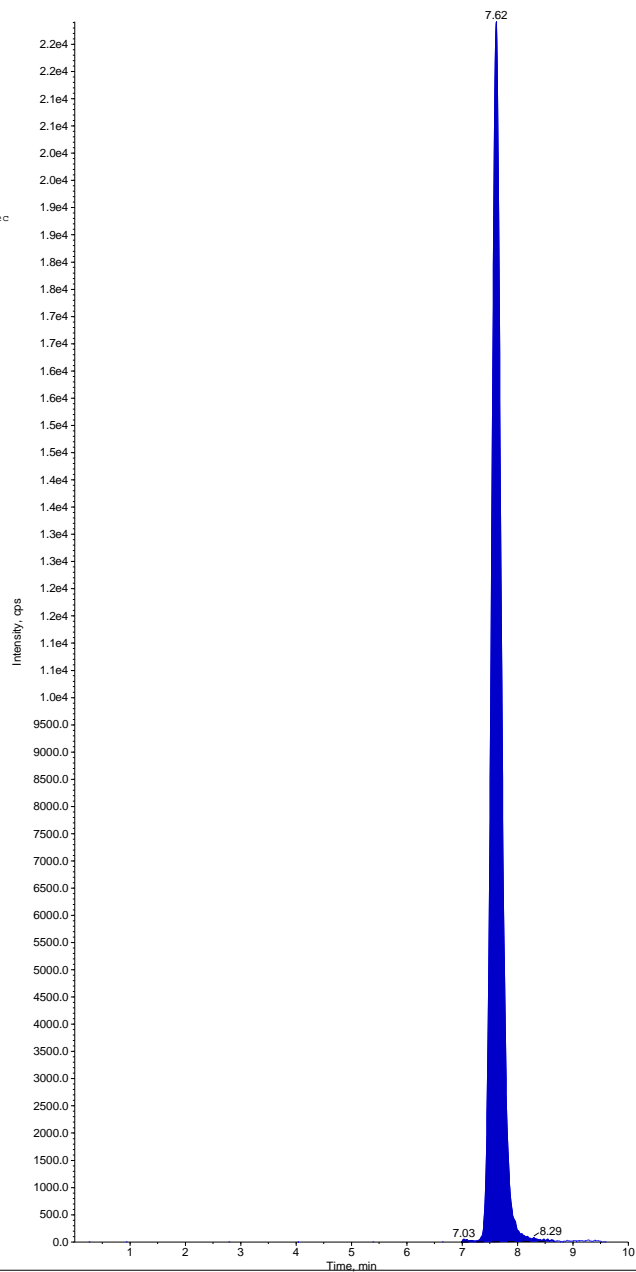
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-14" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

Sample Index: 9
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 07:20:40 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.62 min
Area: 276000 counts
Height: 22400 cps
Start Time: 6.98 min
End Time: 8.66 min



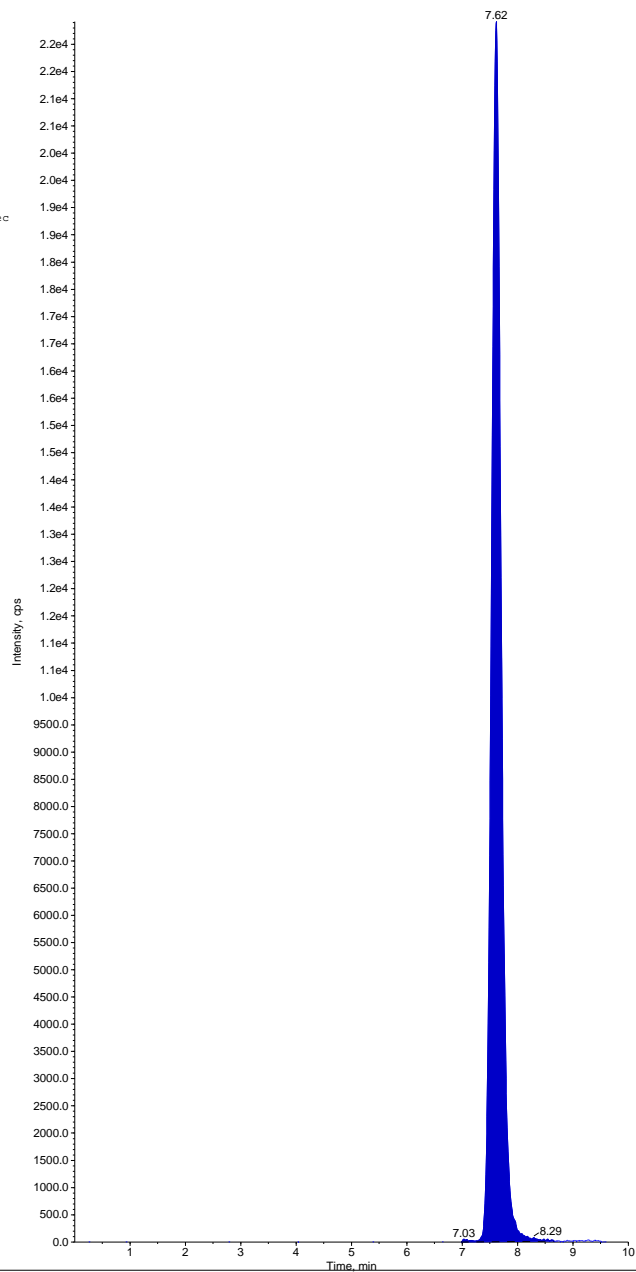
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-14" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

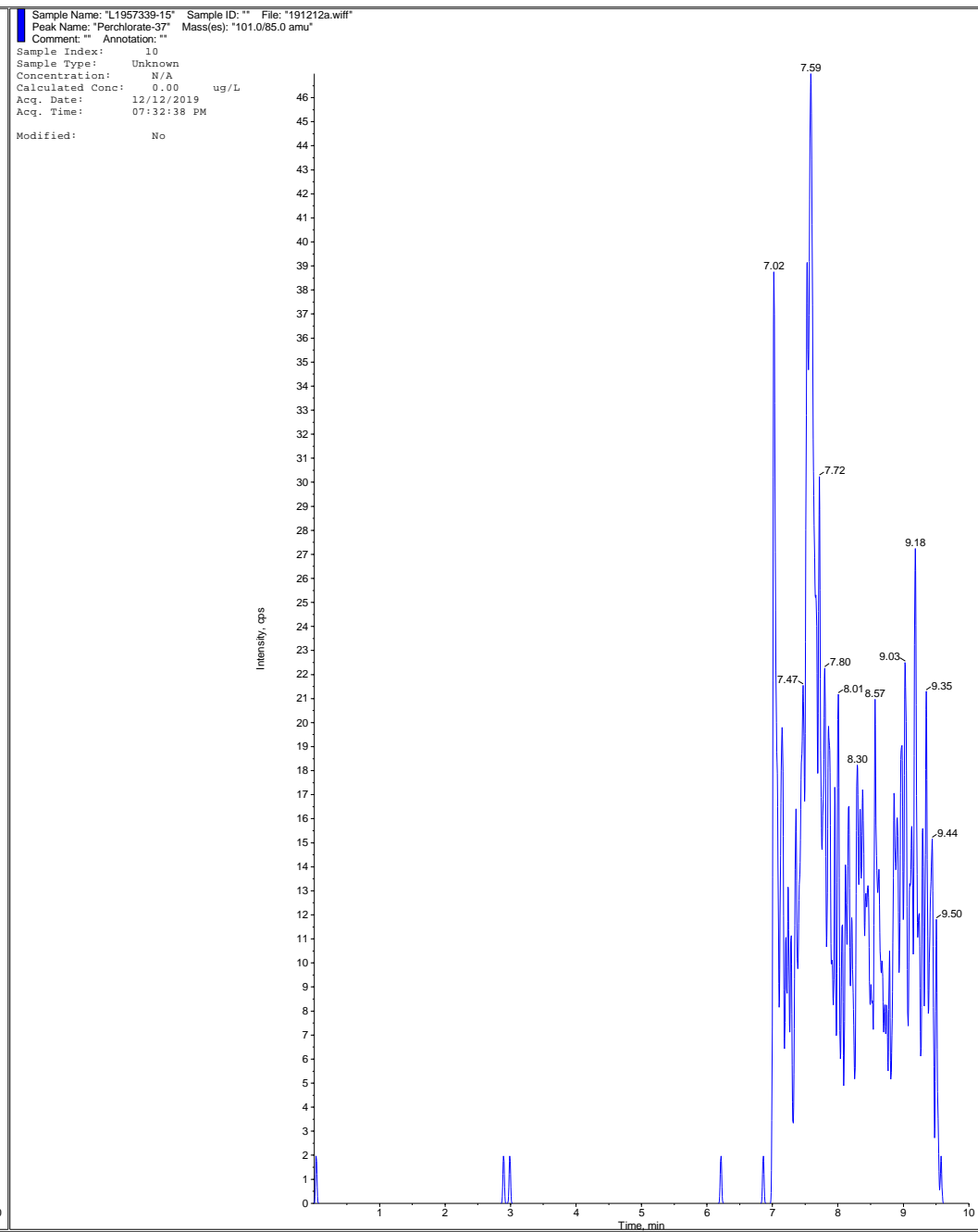
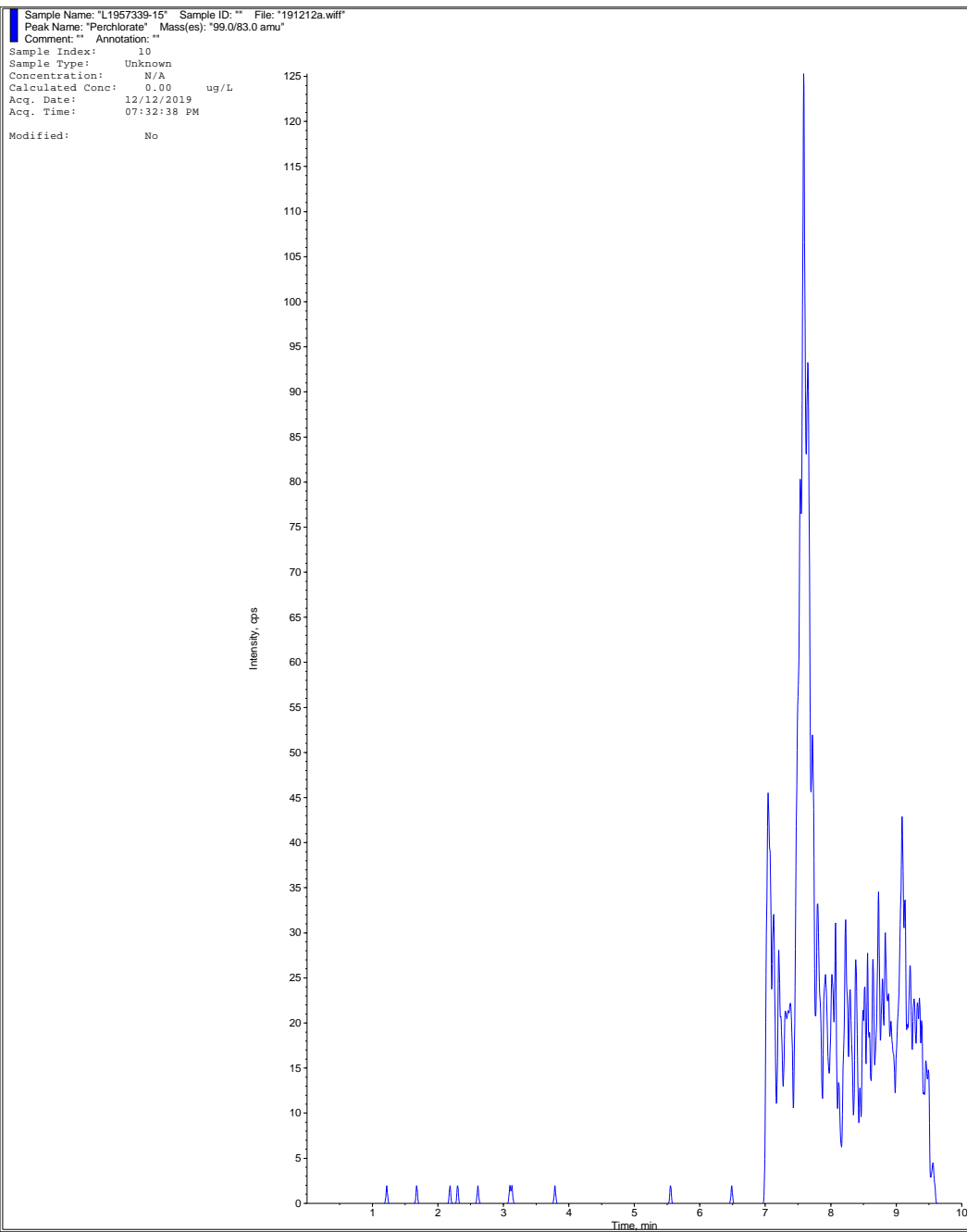
Sample Index: 9
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 07:20:40 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smooths: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.62 min
Area: 276000 counts
Height: 22400 cps
Start Time: 6.98 min
End Time: 8.66 min

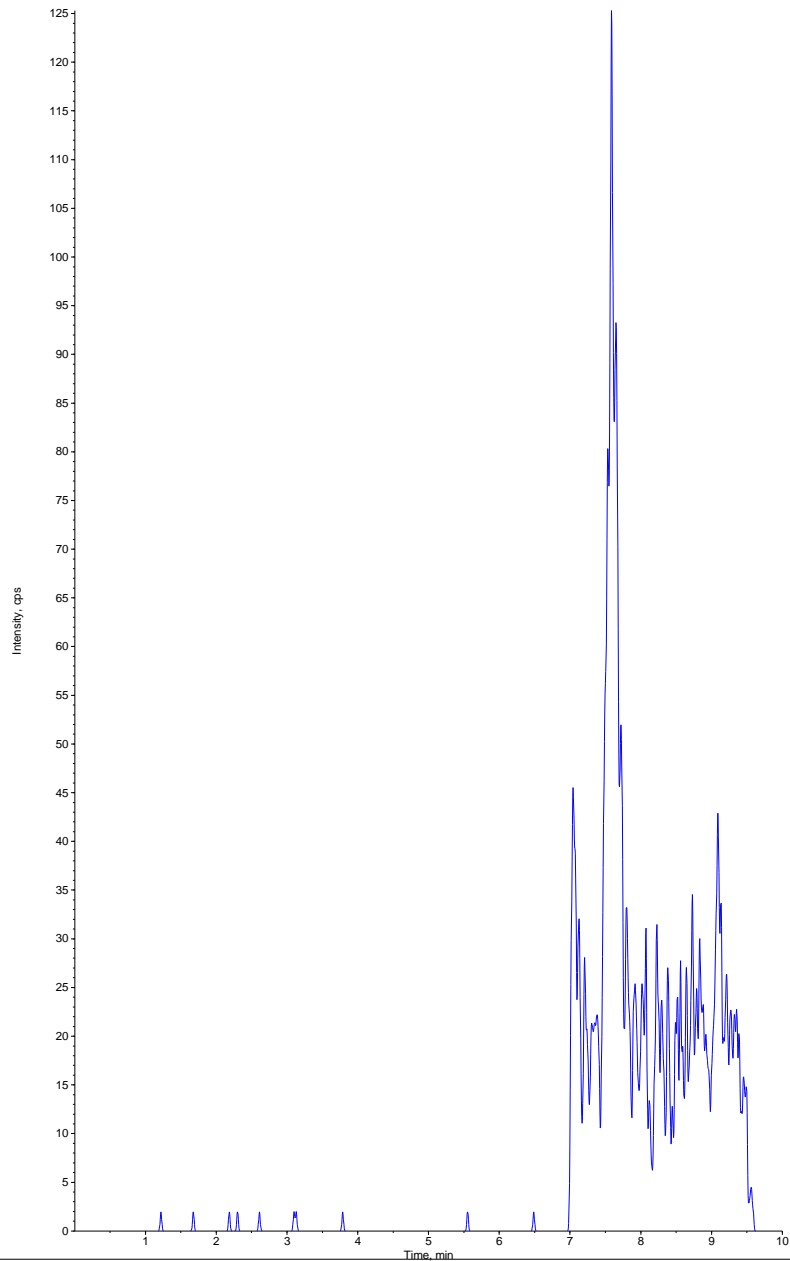


Collected by: N/A
Electronic Signature: no
Operator: Administrator

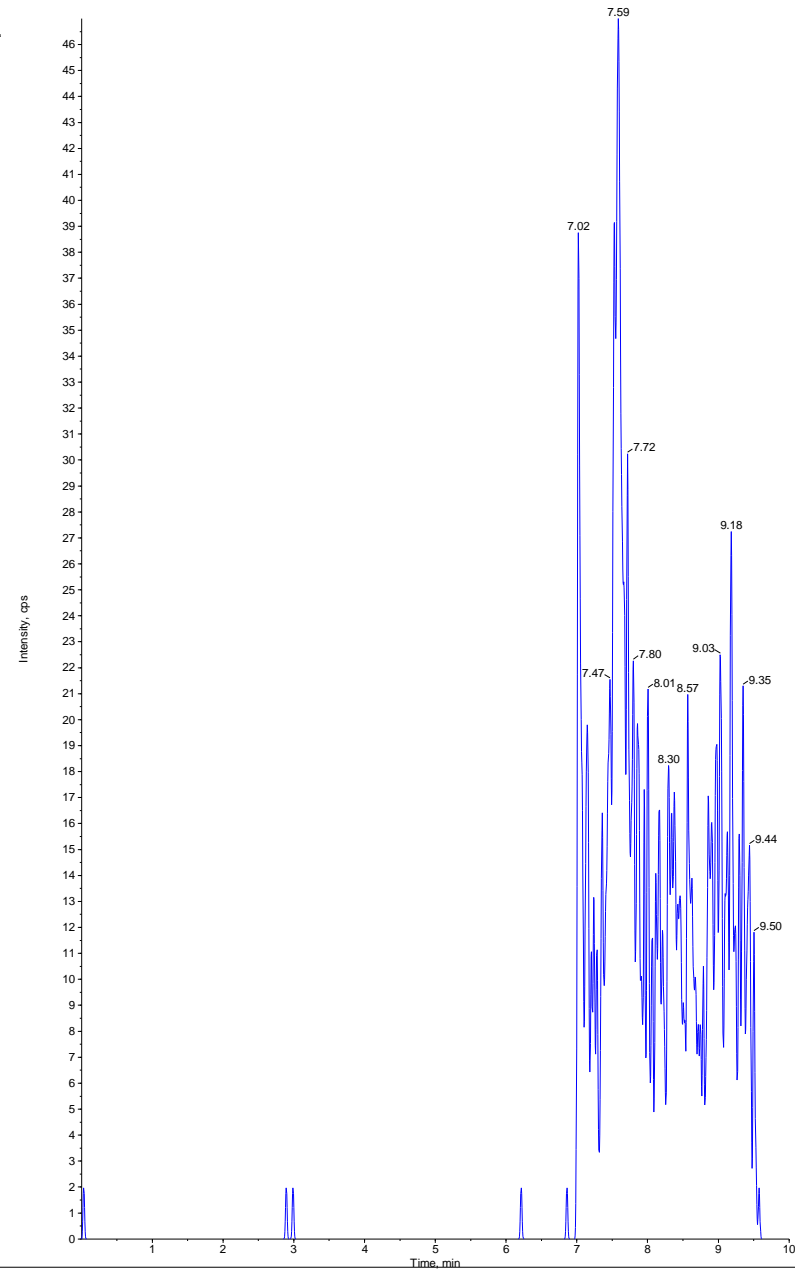


Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-15" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "" Annotation: ""
Sample Index: 10
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/12/2019
Acq. Time: 07:32:38 PM
Modified: Yes



Sample Name: "L1957339-15" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "" Annotation: ""
Sample Index: 10
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/12/2019
Acq. Time: 07:32:38 PM
Modified: Yes



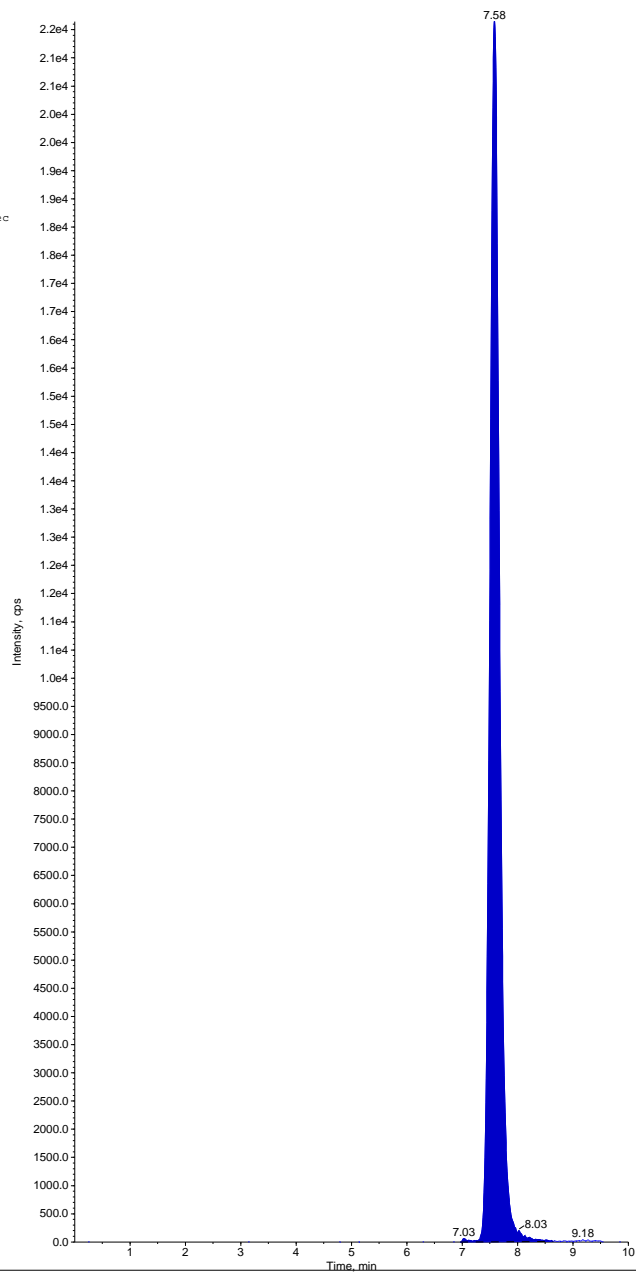
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'L1957339-15' Sample ID: '' File: '191212a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: '' Annotation: ''

Sample Index: 10
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 07:32:38 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smooths: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.58 min
Area: 266000 counts
Height: 21700 cps
Start Time: 6.97 min
End Time: 8.64 min



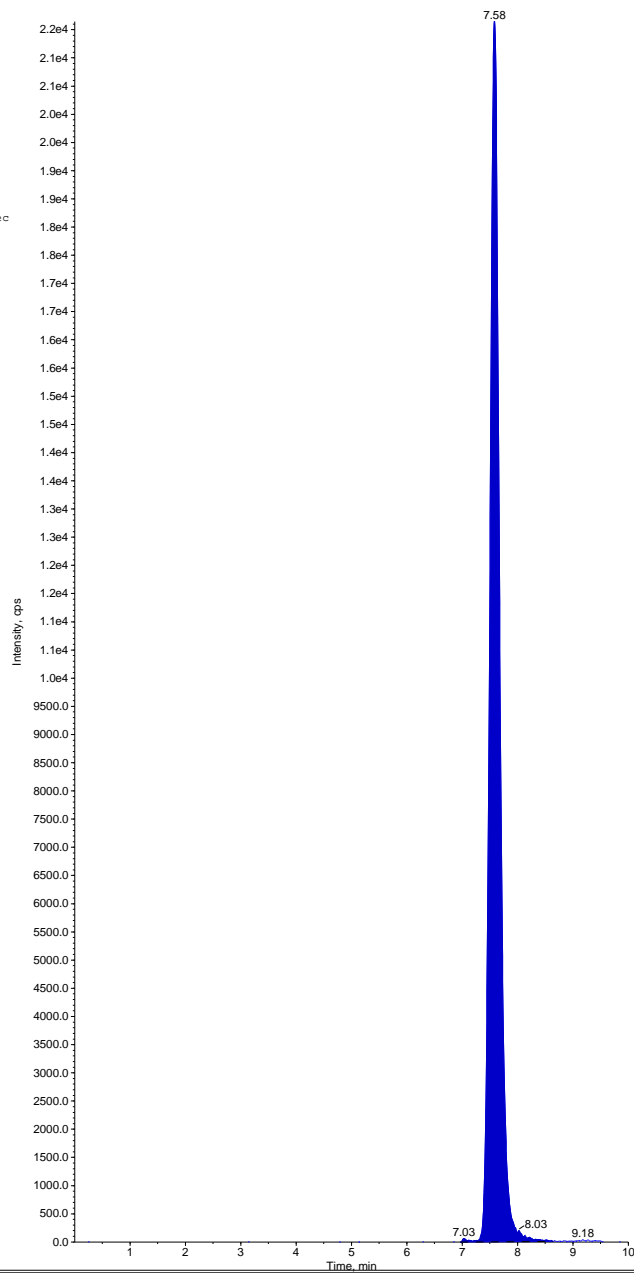
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'L1957339-15' Sample ID: '' File: '191212a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: '' Annotation: ''

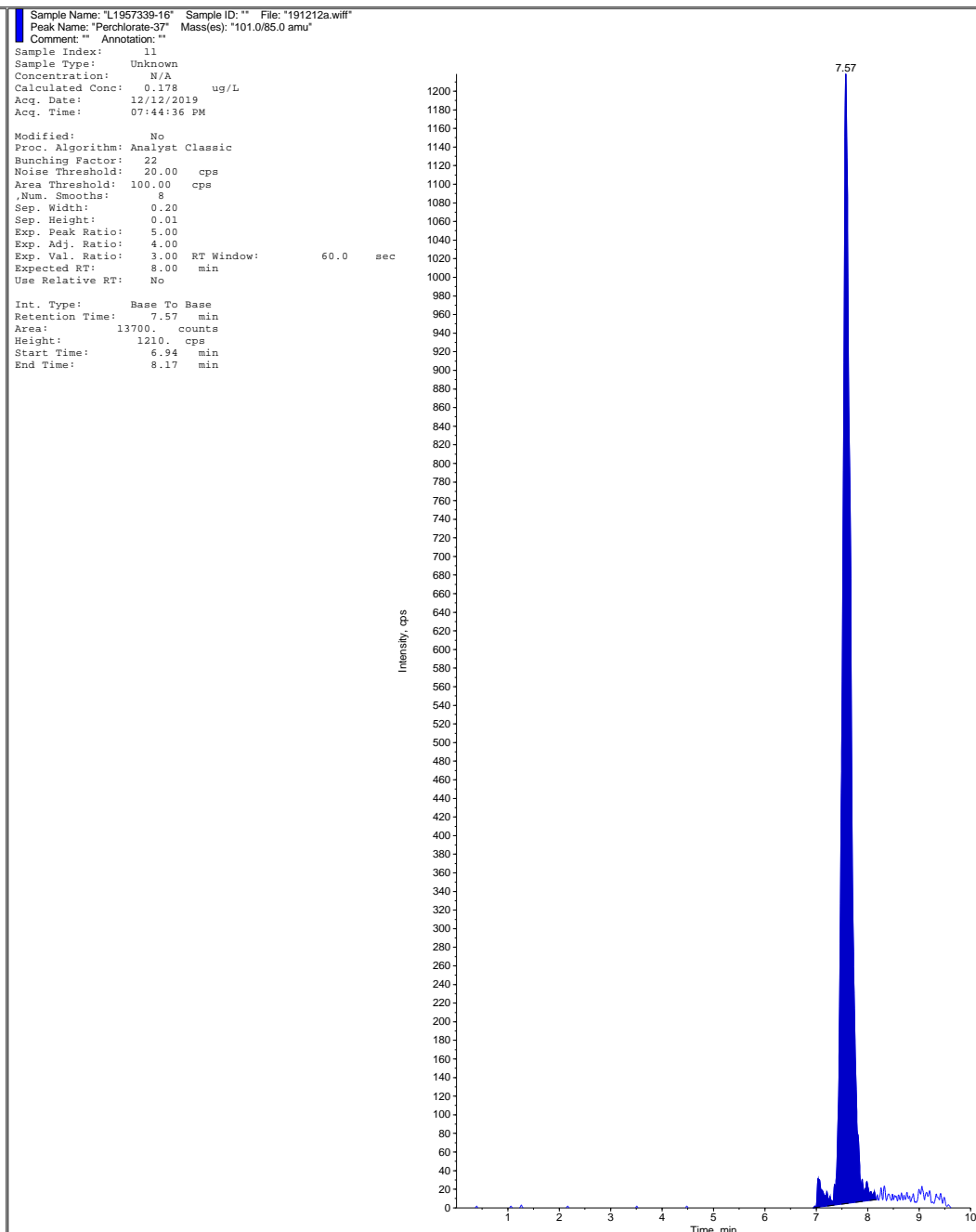
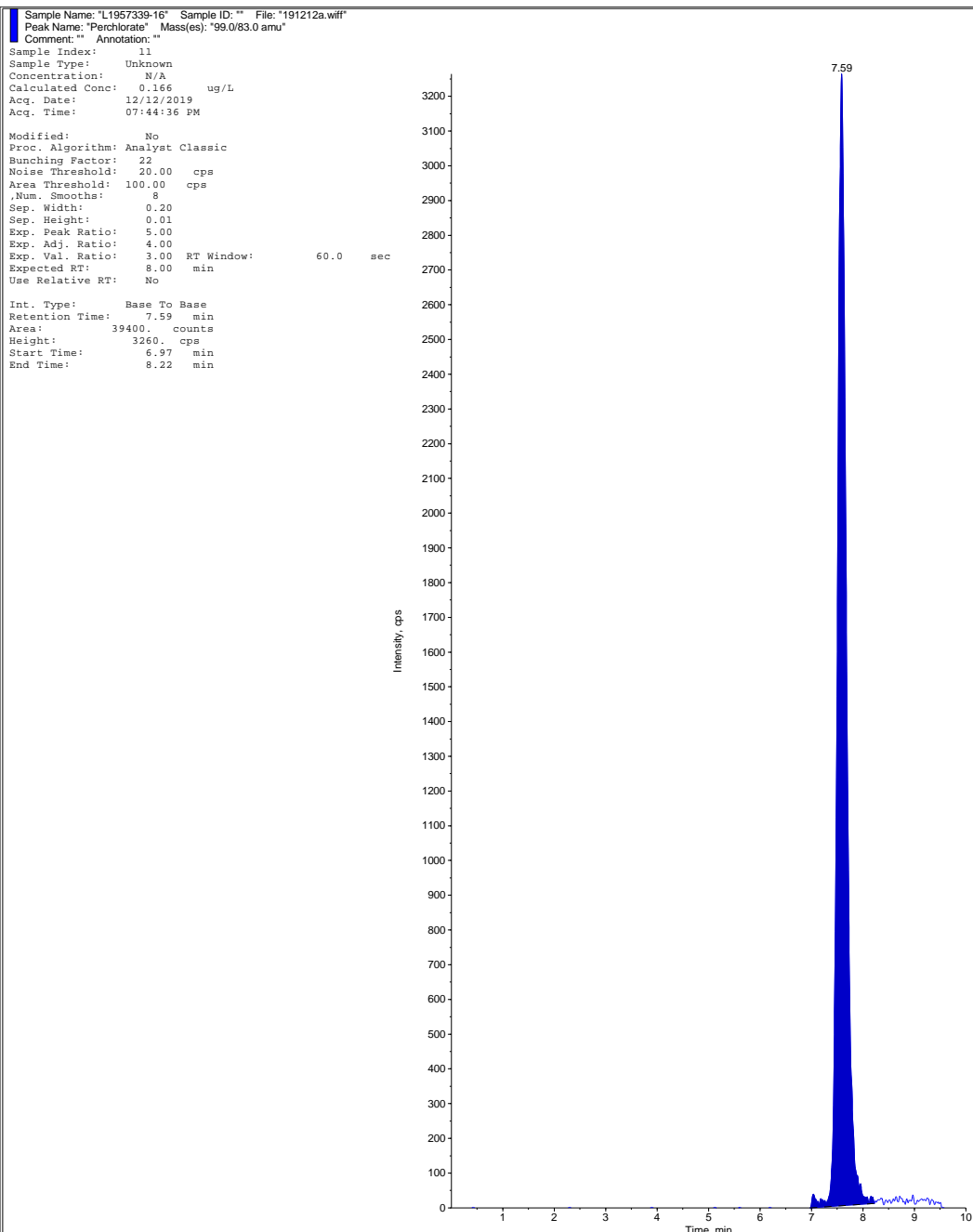
Sample Index: 10
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 07:32:38 PM

Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smooths: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

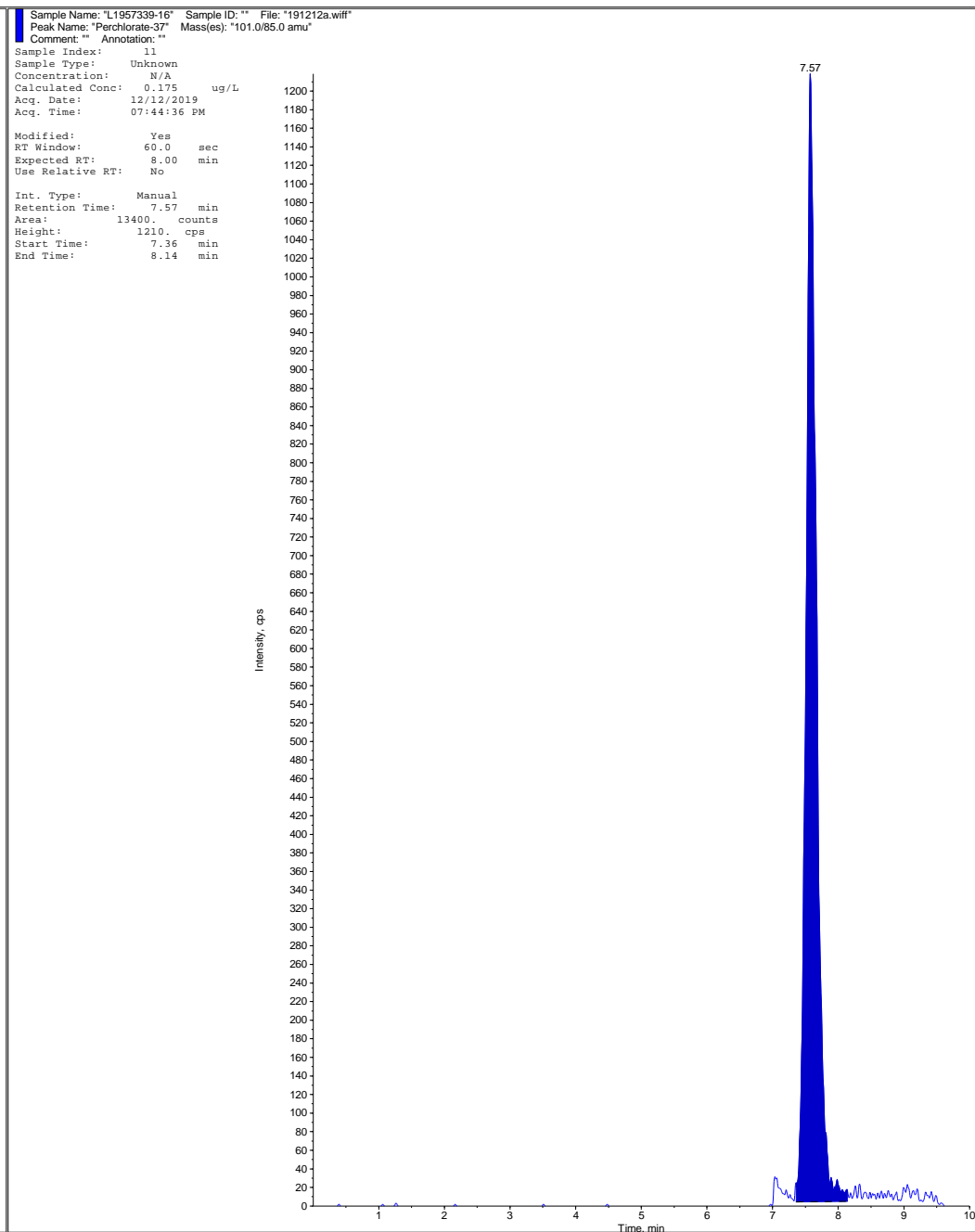
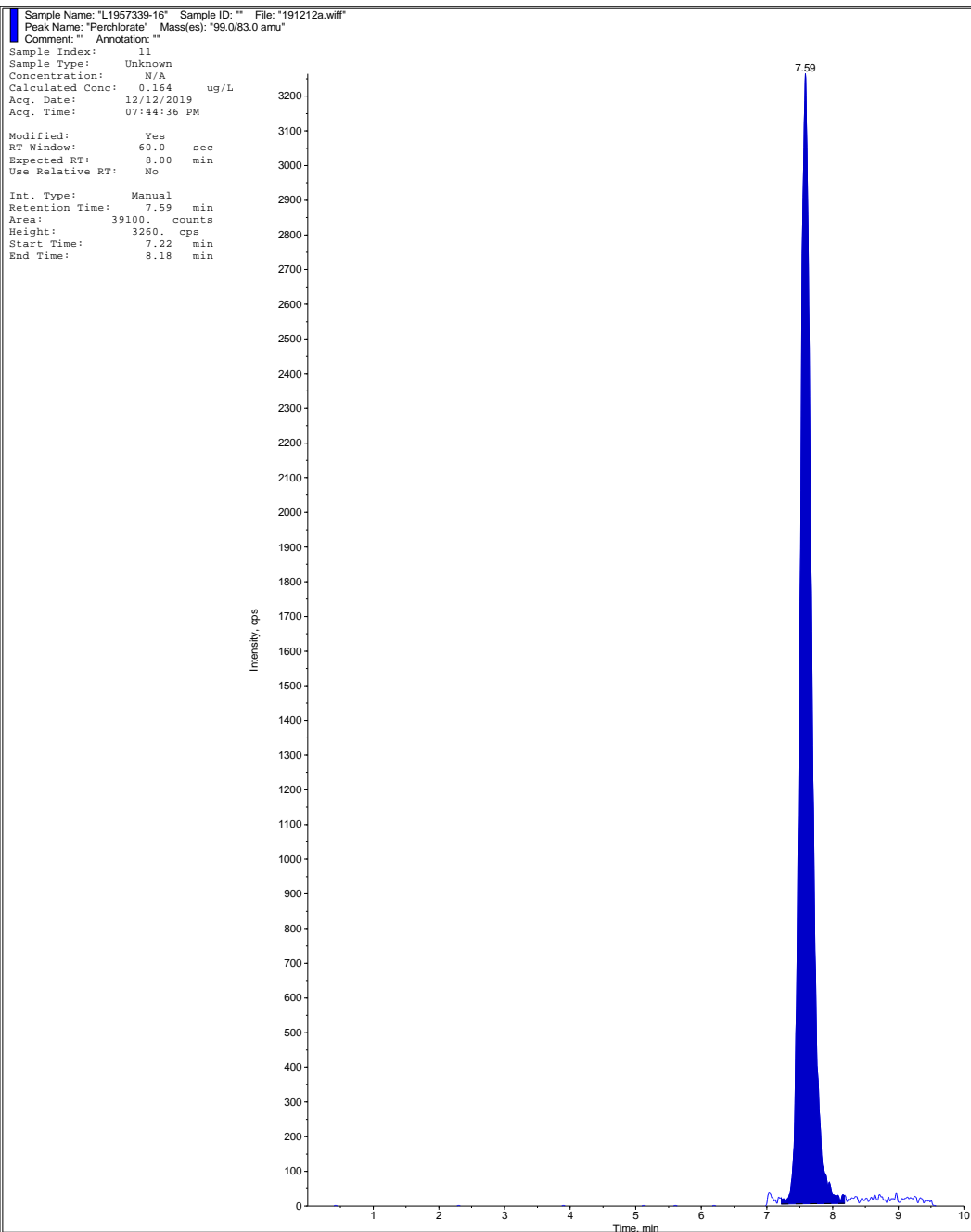
Int. Type: Base To Base
Retention Time: 7.58 min
Area: 266000 counts
Height: 21700 cps
Start Time: 6.97 min
End Time: 8.64 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator



Collected by: N/A
Electronic Signature: no
Operator: Administrator



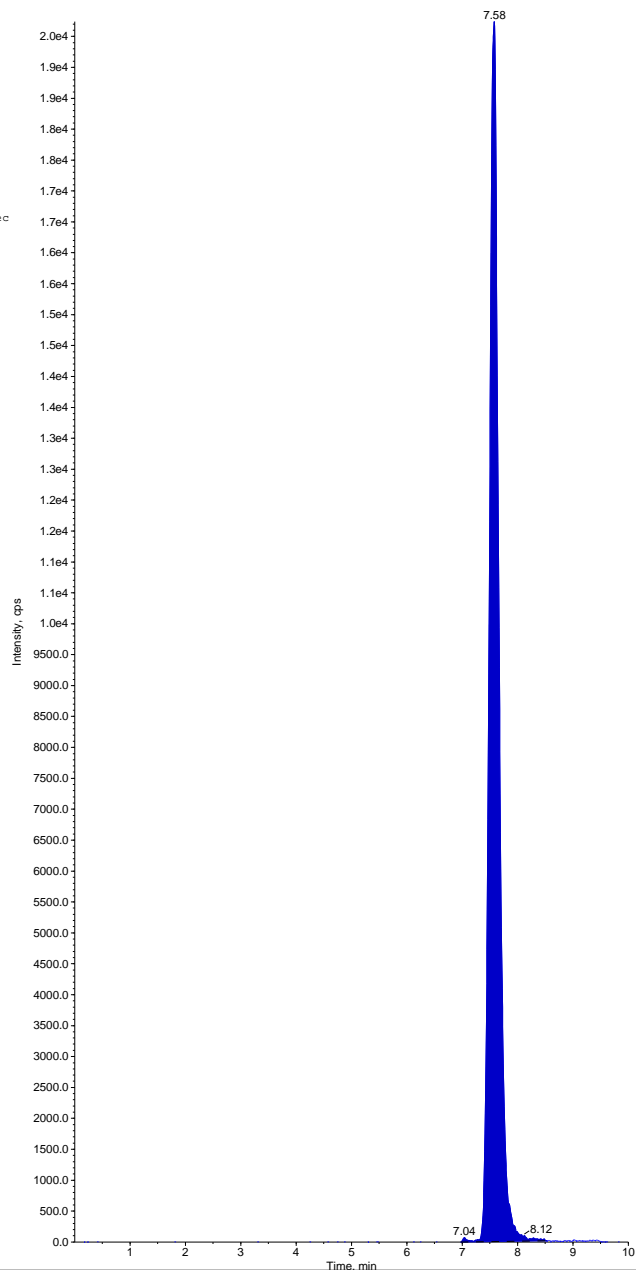
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-16" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

Sample Index: 11
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 07:44:36 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smooths: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.58 min
Area: 237000 counts
Height: 19700 cps
Start Time: 6.97 min
End Time: 8.53 min



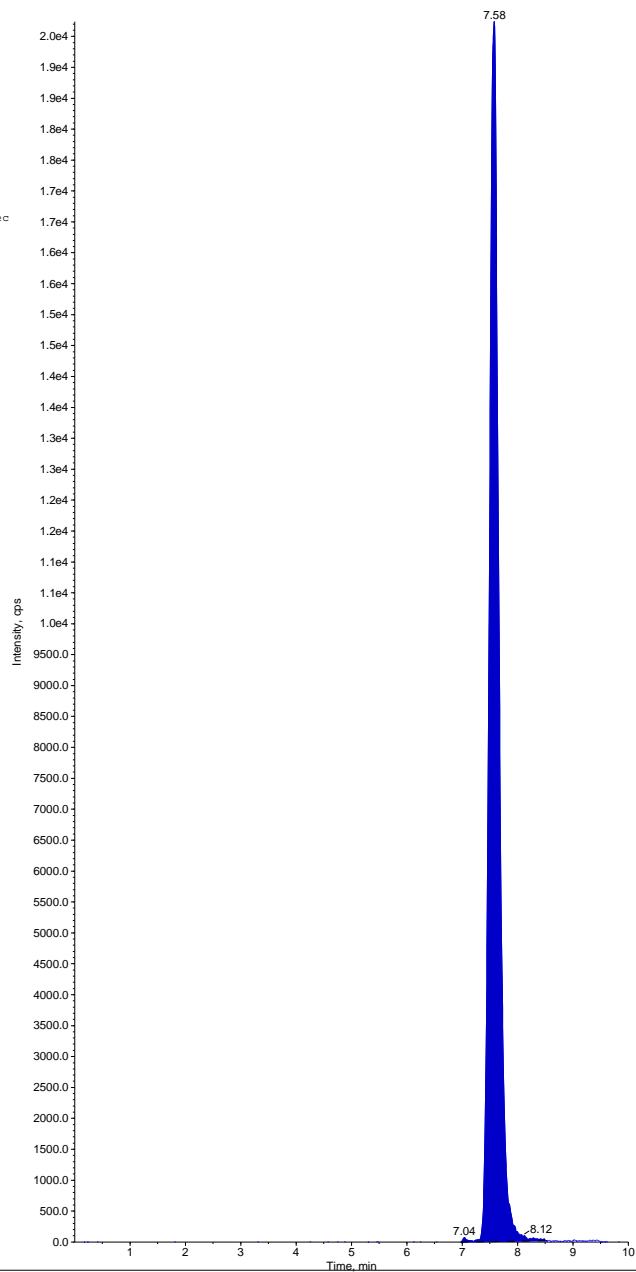
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-16" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

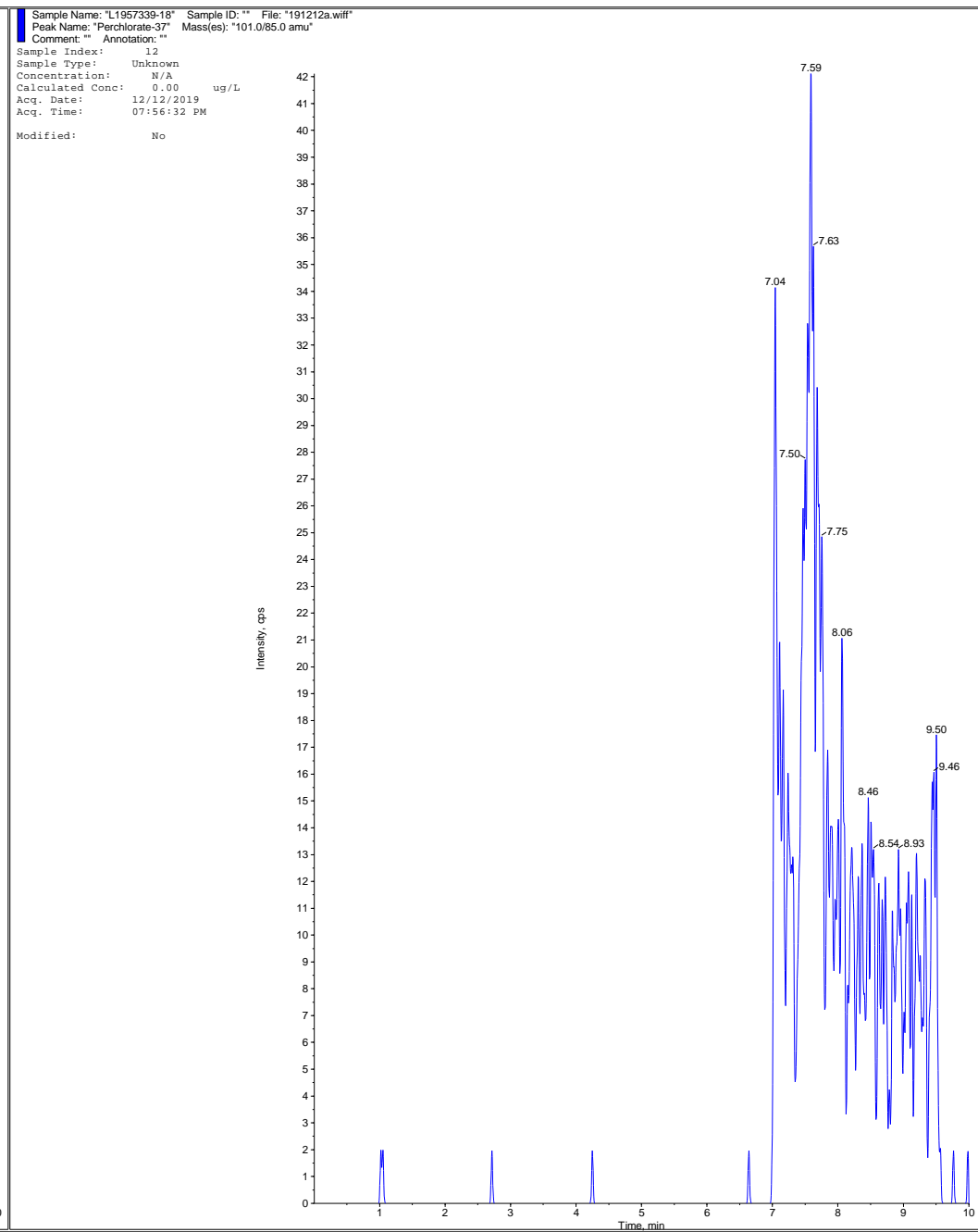
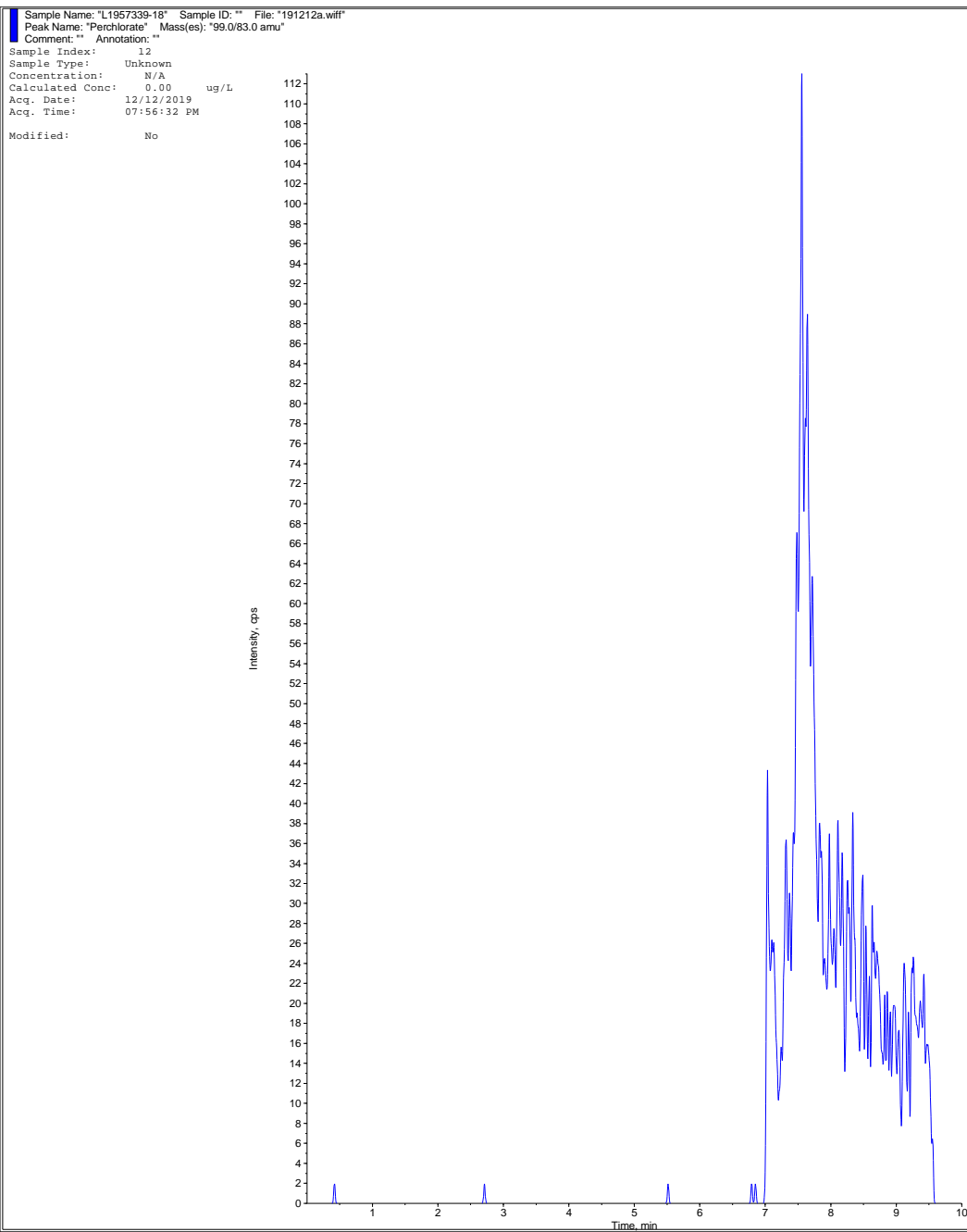
Sample Index: 11
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 07:44:36 PM

Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
,Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

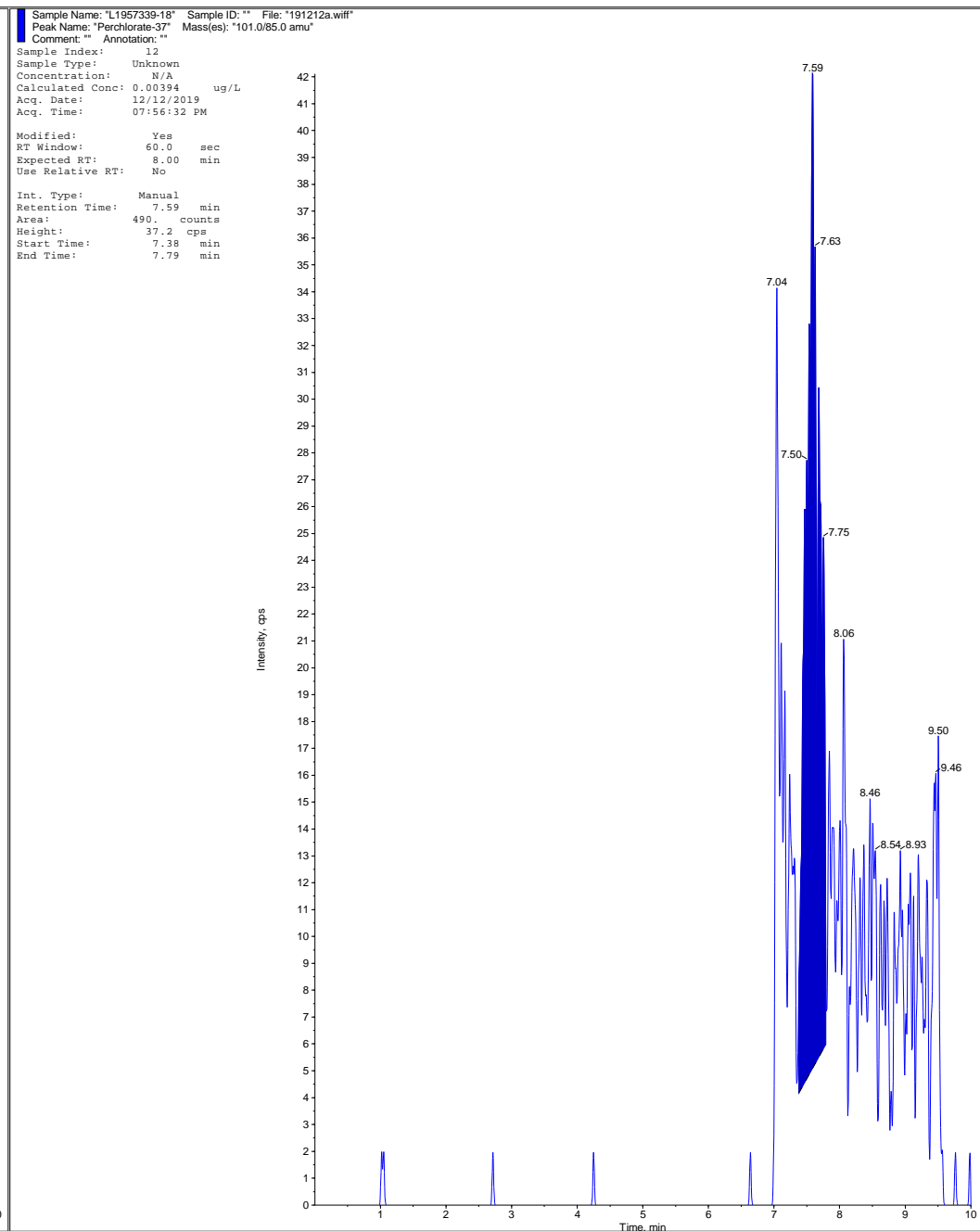
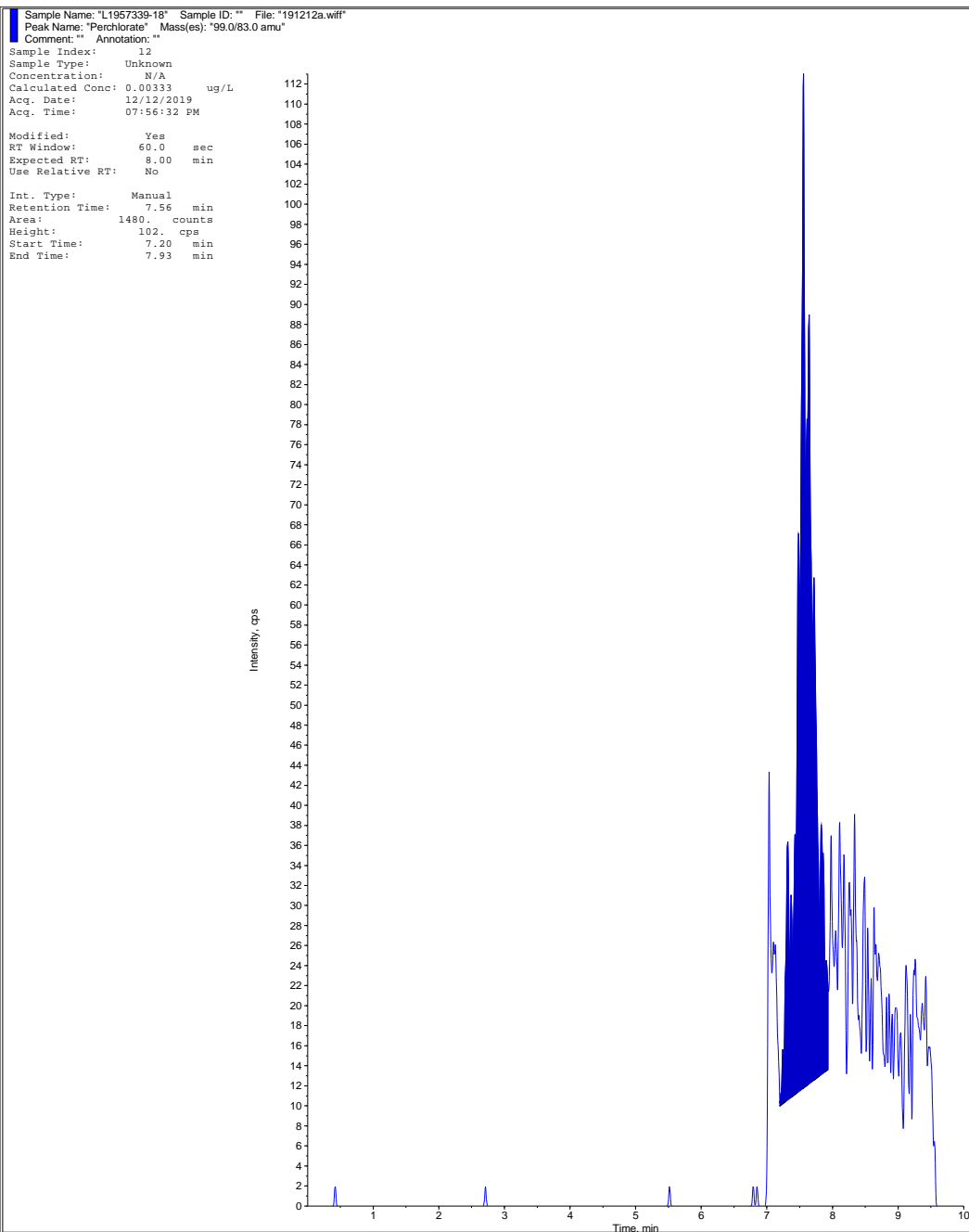
Int. Type: Base To Base
Retention Time: 7.58 min
Area: 237000 counts
Height: 19700 cps
Start Time: 6.97 min
End Time: 8.53 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator



Collected by: N/A
Electronic Signature: no
Operator: Administrator



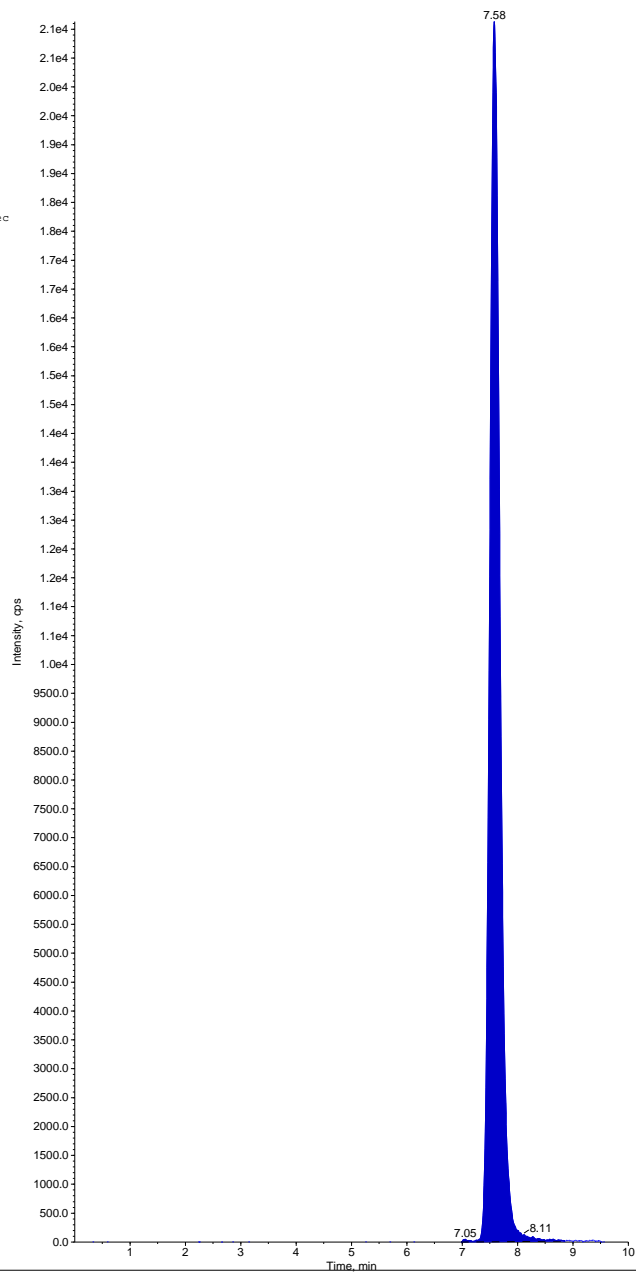
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-18" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

Sample Index: 12
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 07:56:32 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.58 min
Area: 276000 counts
Height: 21100 cps
Start Time: 6.98 min
End Time: 8.86 min



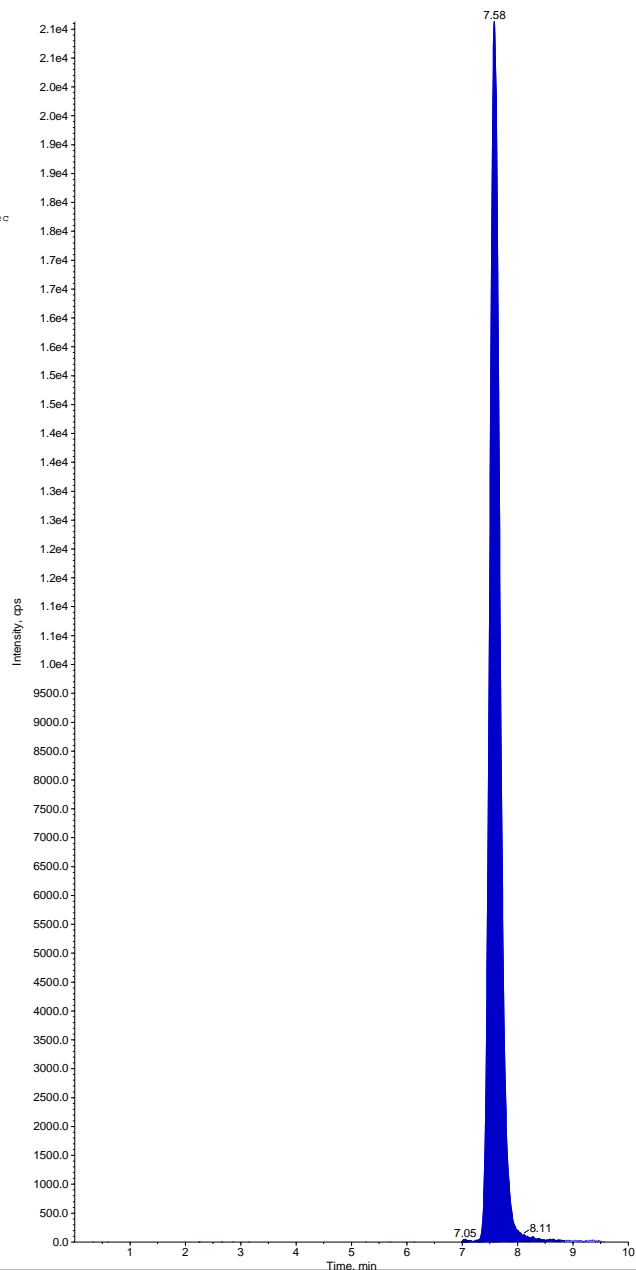
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-18" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

Sample Index: 12
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 07:56:32 PM

Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.58 min
Area: 276000 counts
Height: 21100 cps
Start Time: 6.98 min
End Time: 8.86 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-19" Sample ID: "" File: "191212a.wiff"

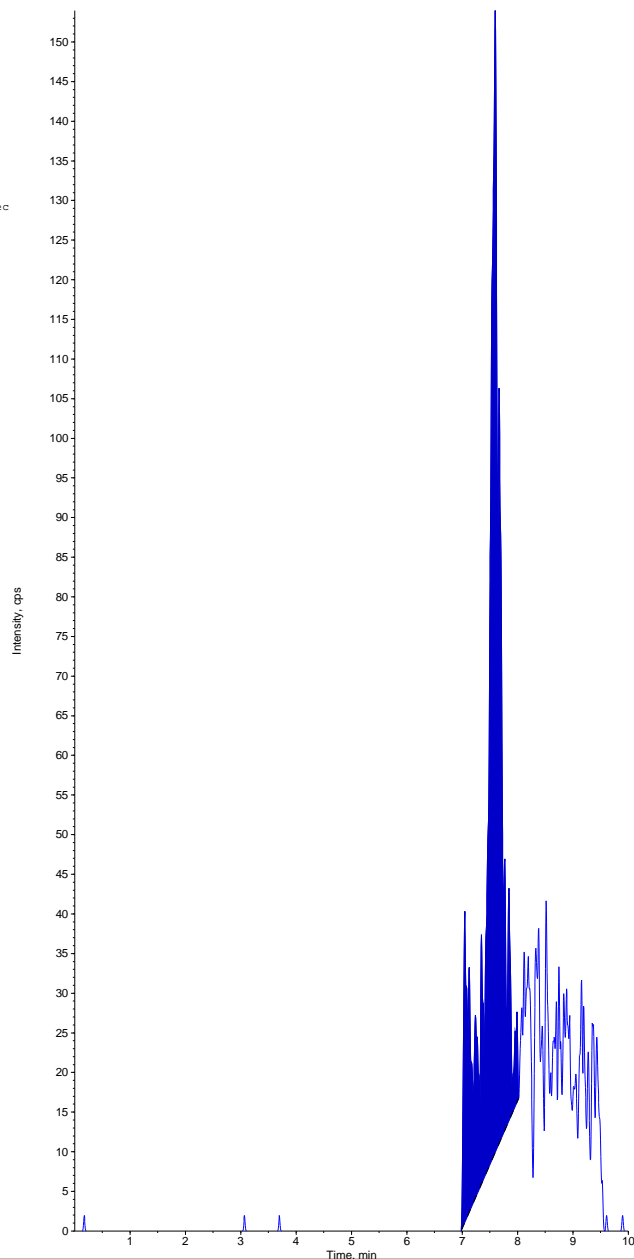
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"

Comment: "" Annotation: ""

Sample Index: 13
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00633 ug/L
Acq. Date: 12/12/2019
Acq. Time: 08:08:30 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 22
Noise Threshold: 20.00 cps
Area Threshold: 100.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.60 min
Area: 2350 counts
Height: 144 cps
Start Time: 6.98 min
End Time: 8.02 min



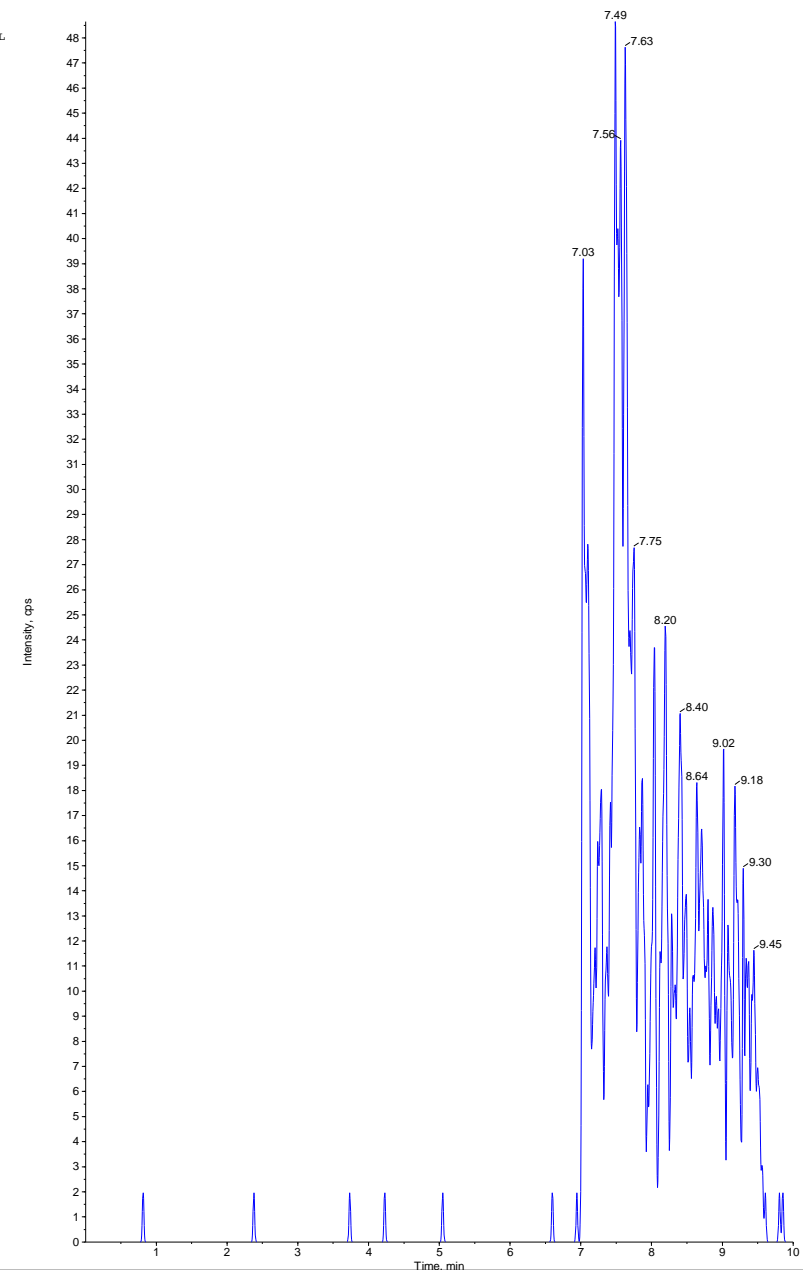
Sample Name: "L1957339-19" Sample ID: "" File: "191212a.wiff"

Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"

Comment: "" Annotation: ""

Sample Index: 13
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/12/2019
Acq. Time: 08:08:30 PM

Modified: No



Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-19" Sample ID: "" File: "191212a.wiff"

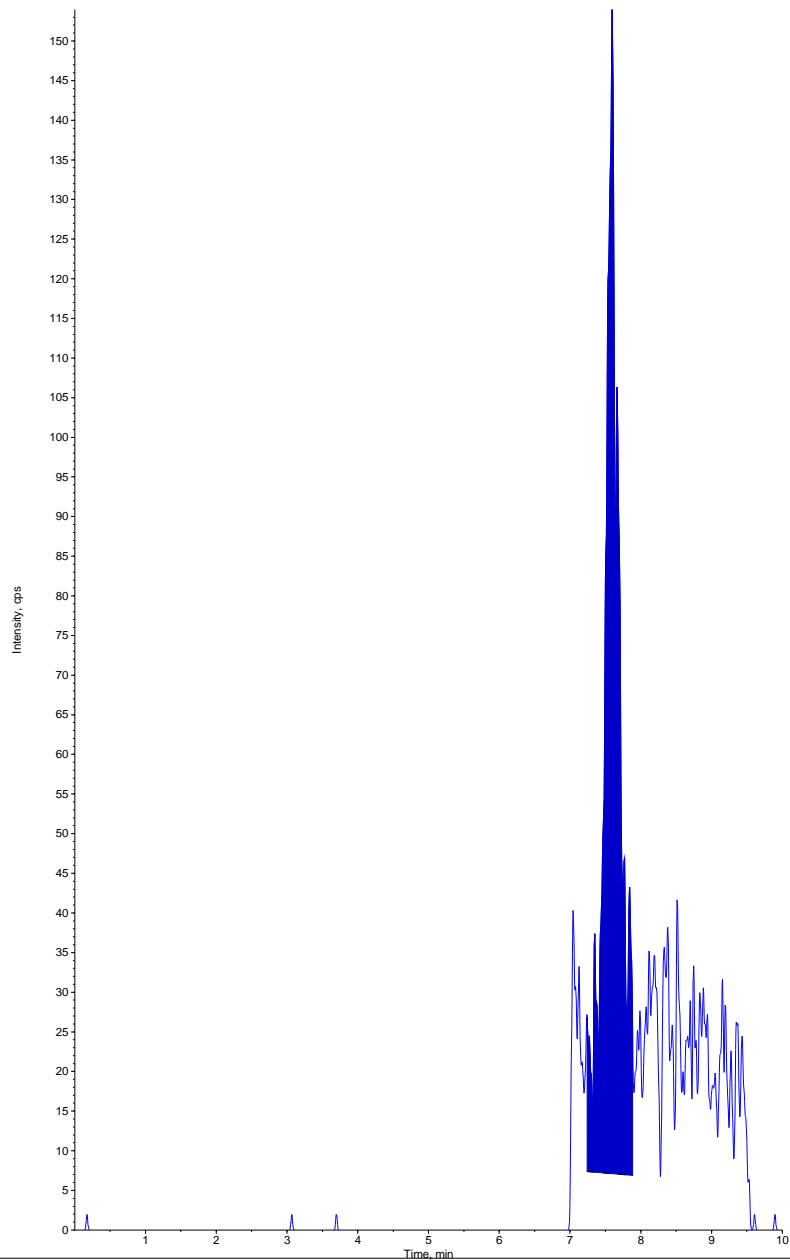
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"

Comment: "" Annotation: ""

Sample Index: 13
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00525 ug/L
Acq. Date: 12/12/2019
Acq. Time: 08:08:30 PM

Modified: Yes
RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Manual
Retention Time: 7.60 min
Area: 2050 counts
Height: 147. cps
Start Time: 7.24 min
End Time: 7.88 min



Sample Name: "L1957339-19" Sample ID: "" File: "191212a.wiff"

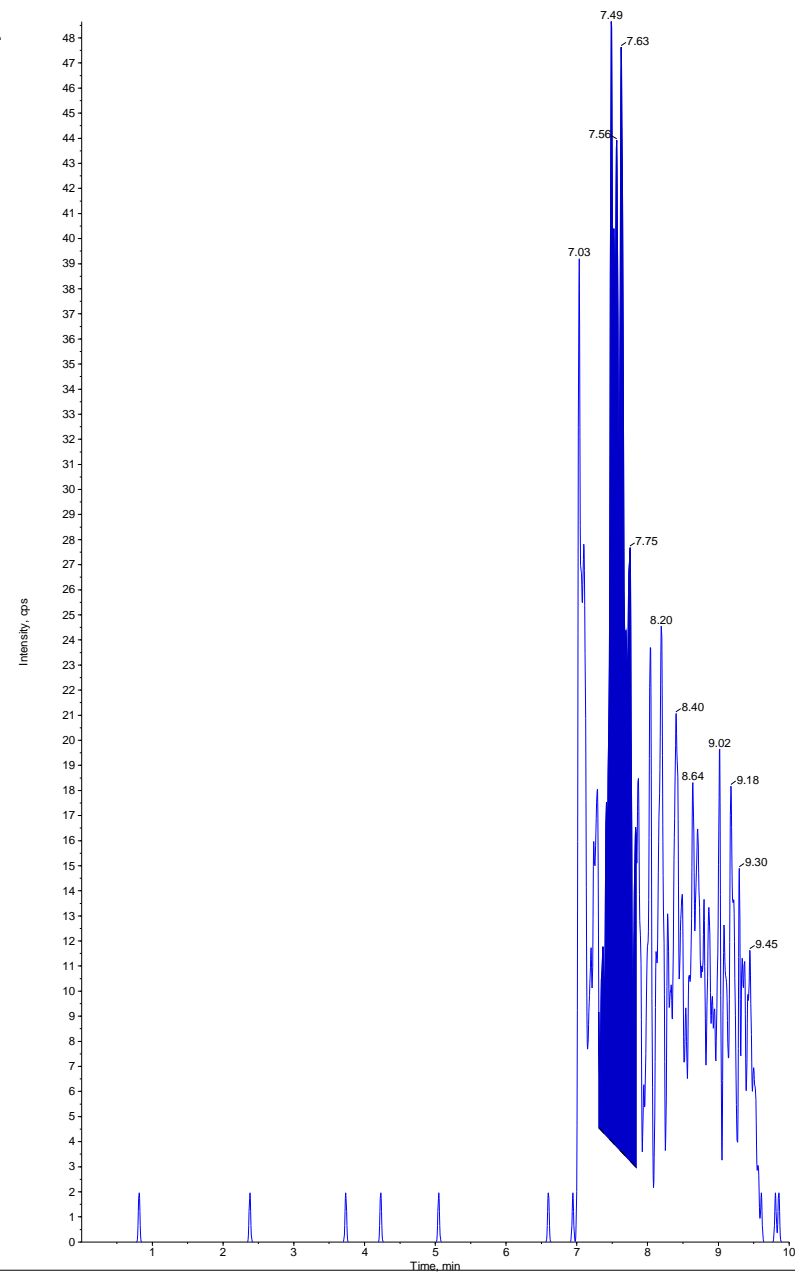
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"

Comment: "" Annotation: ""

Sample Index: 13
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00600 ug/L
Acq. Date: 12/12/2019
Acq. Time: 08:08:30 PM

Modified: Yes
RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Manual
Retention Time: 7.49 min
Area: 686 counts
Height: 45.0 cps
Start Time: 7.31 min
End Time: 7.84 min



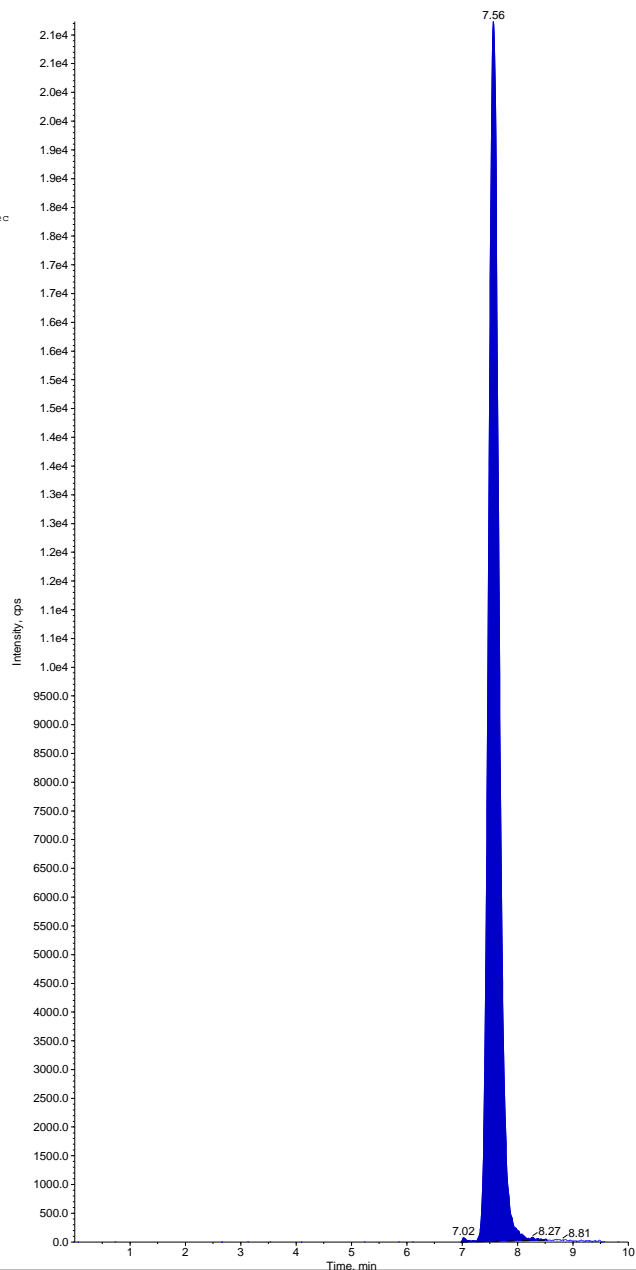
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-19" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

Sample Index: 13
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 08:08:30 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.56 min
Area: 282000 counts
Height: 21200 cps
Start Time: 6.97 min
End Time: 8.53 min



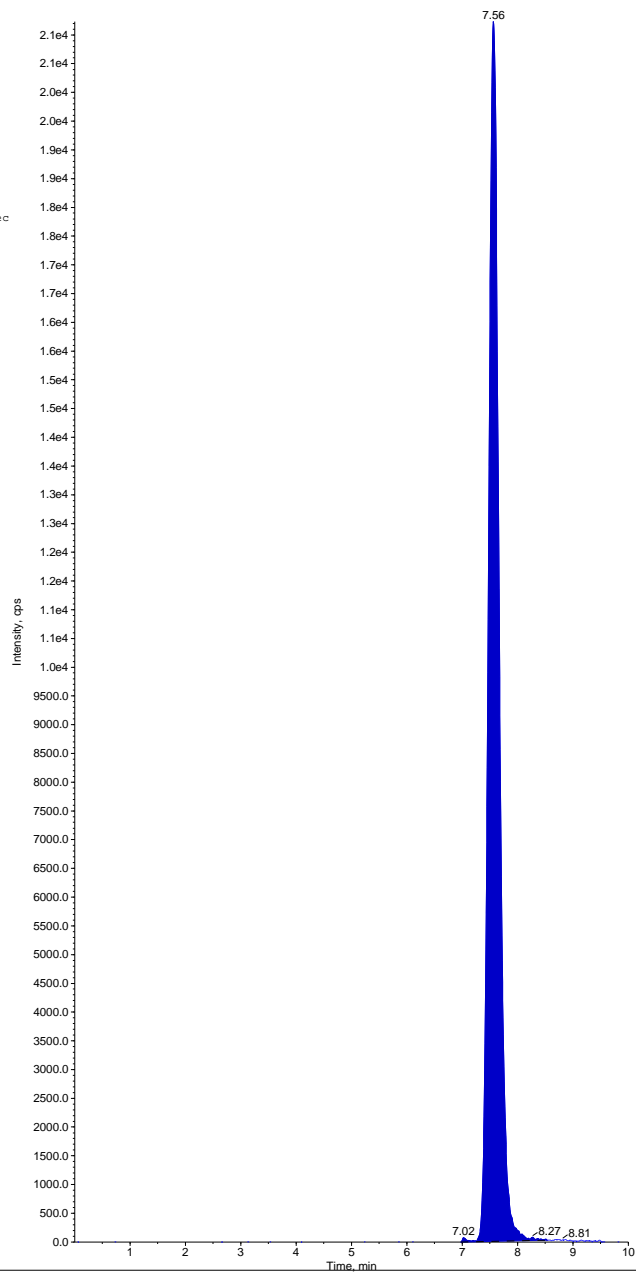
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-19" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

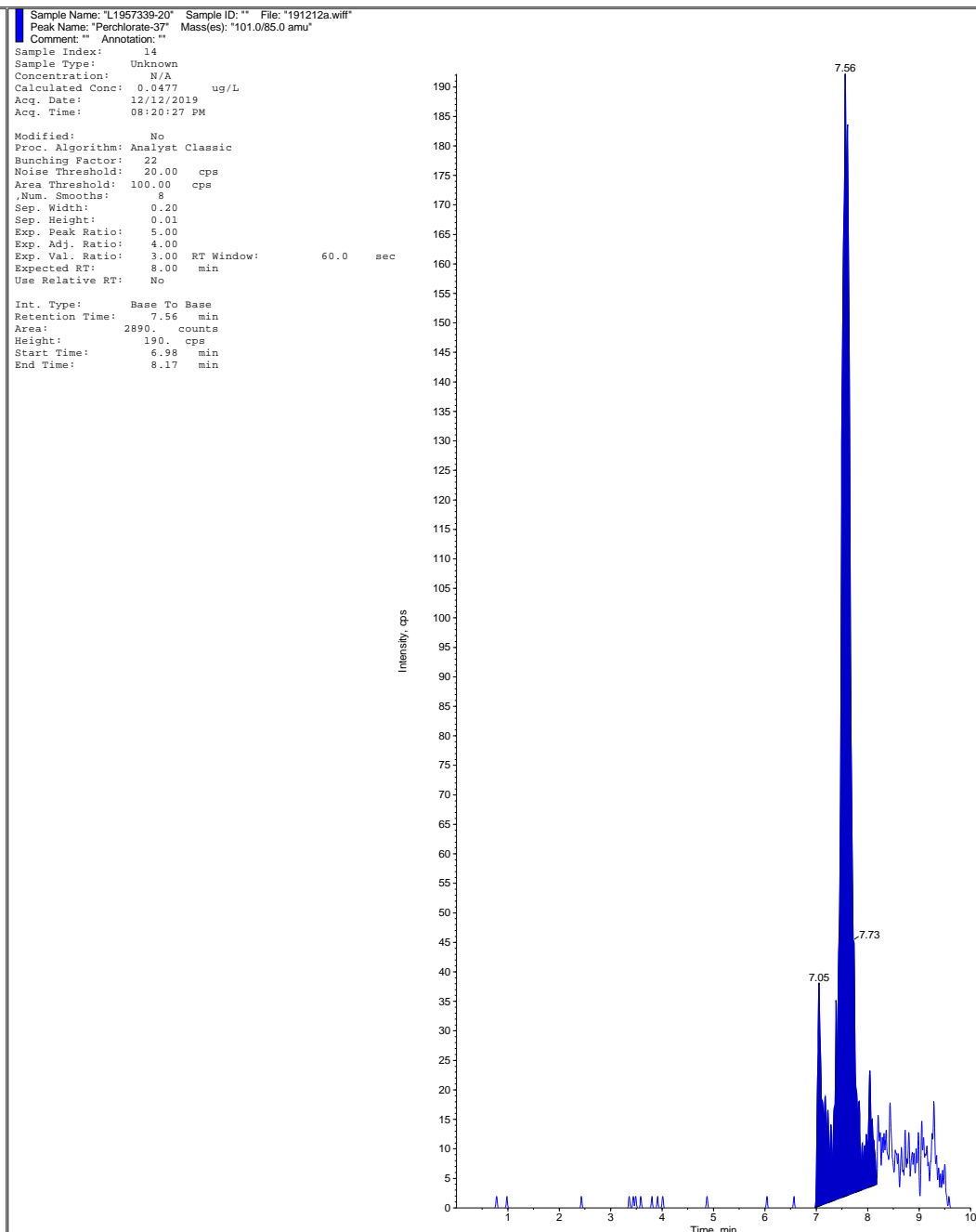
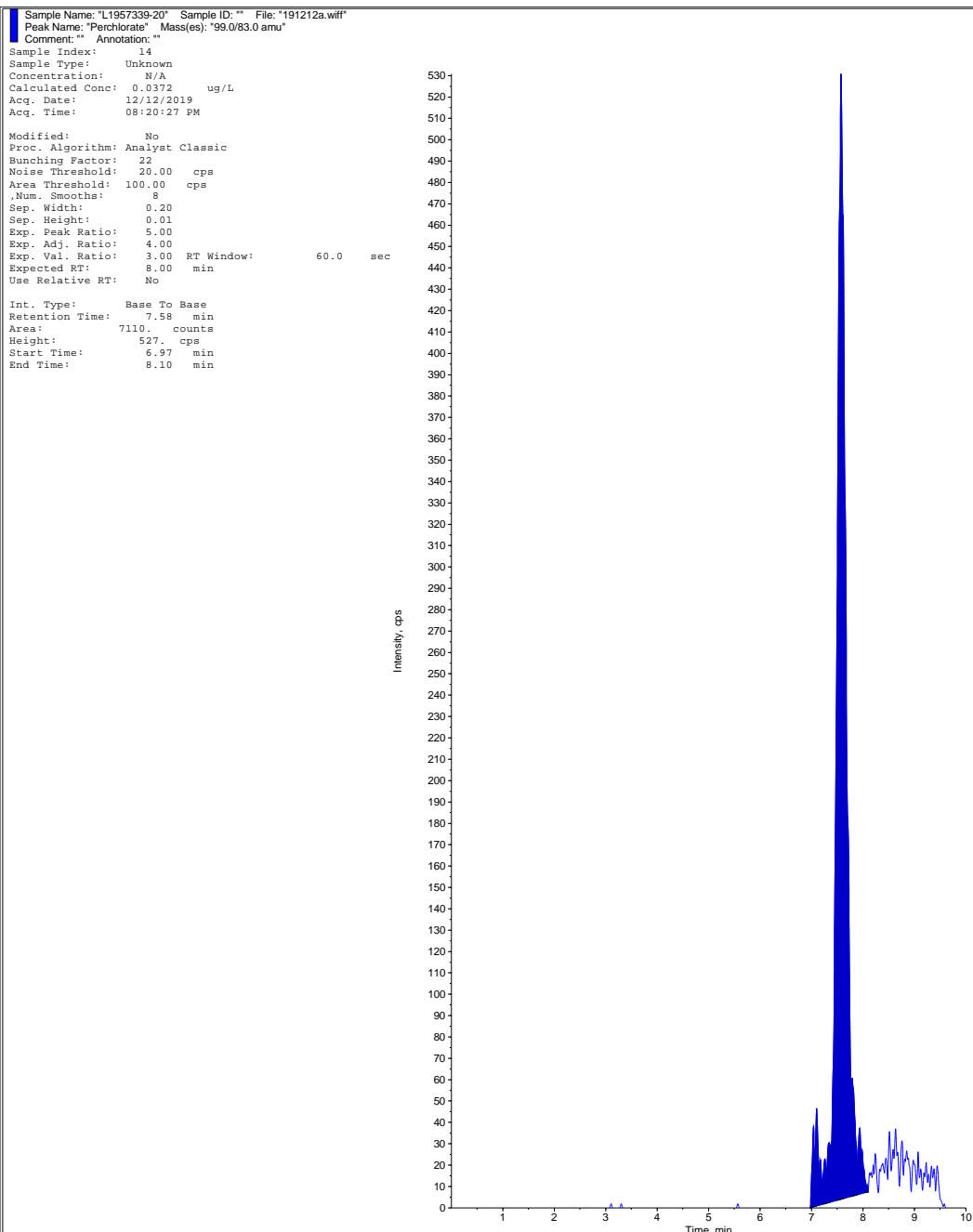
Sample Index: 13
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 08:08:30 PM

Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smooths: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

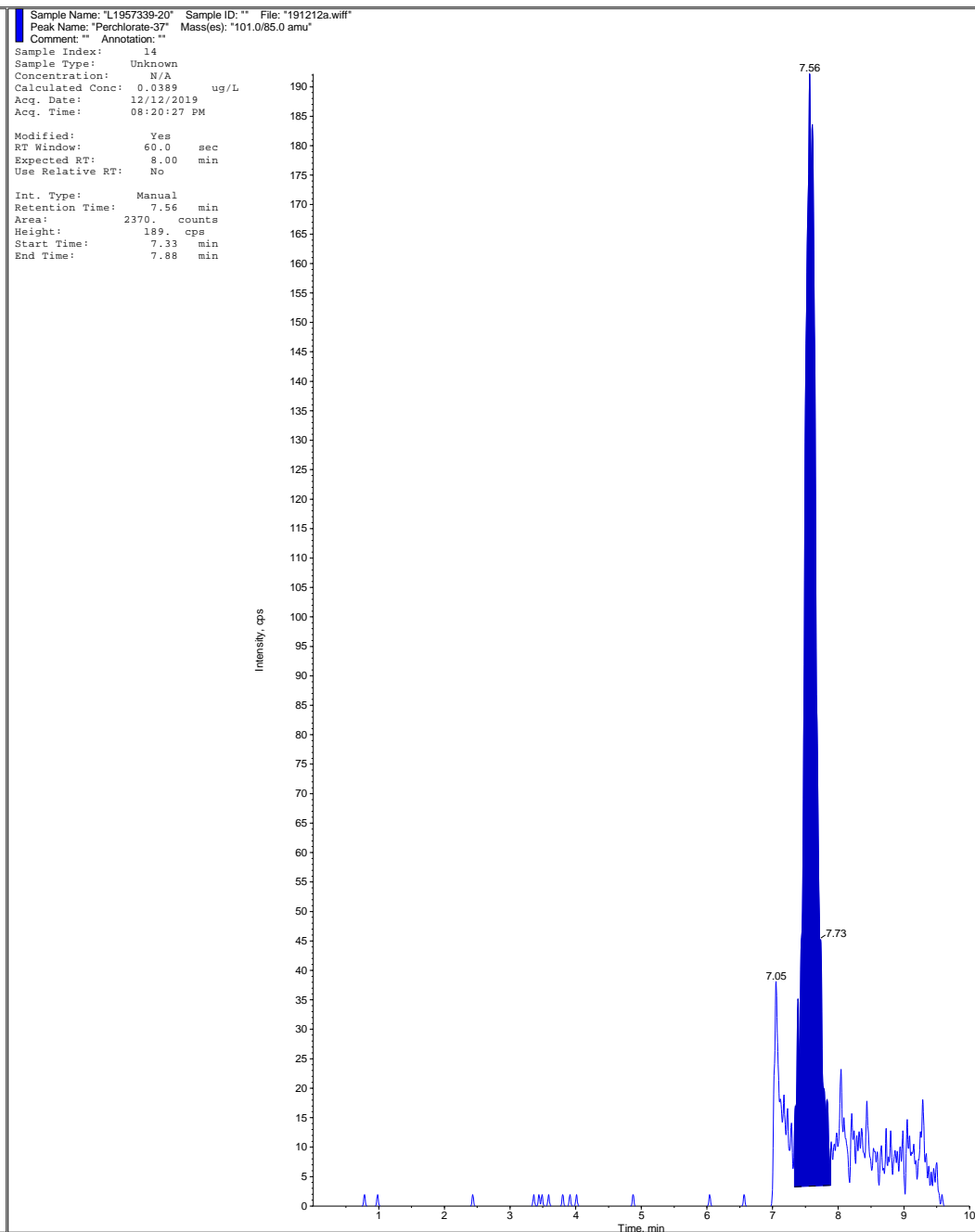
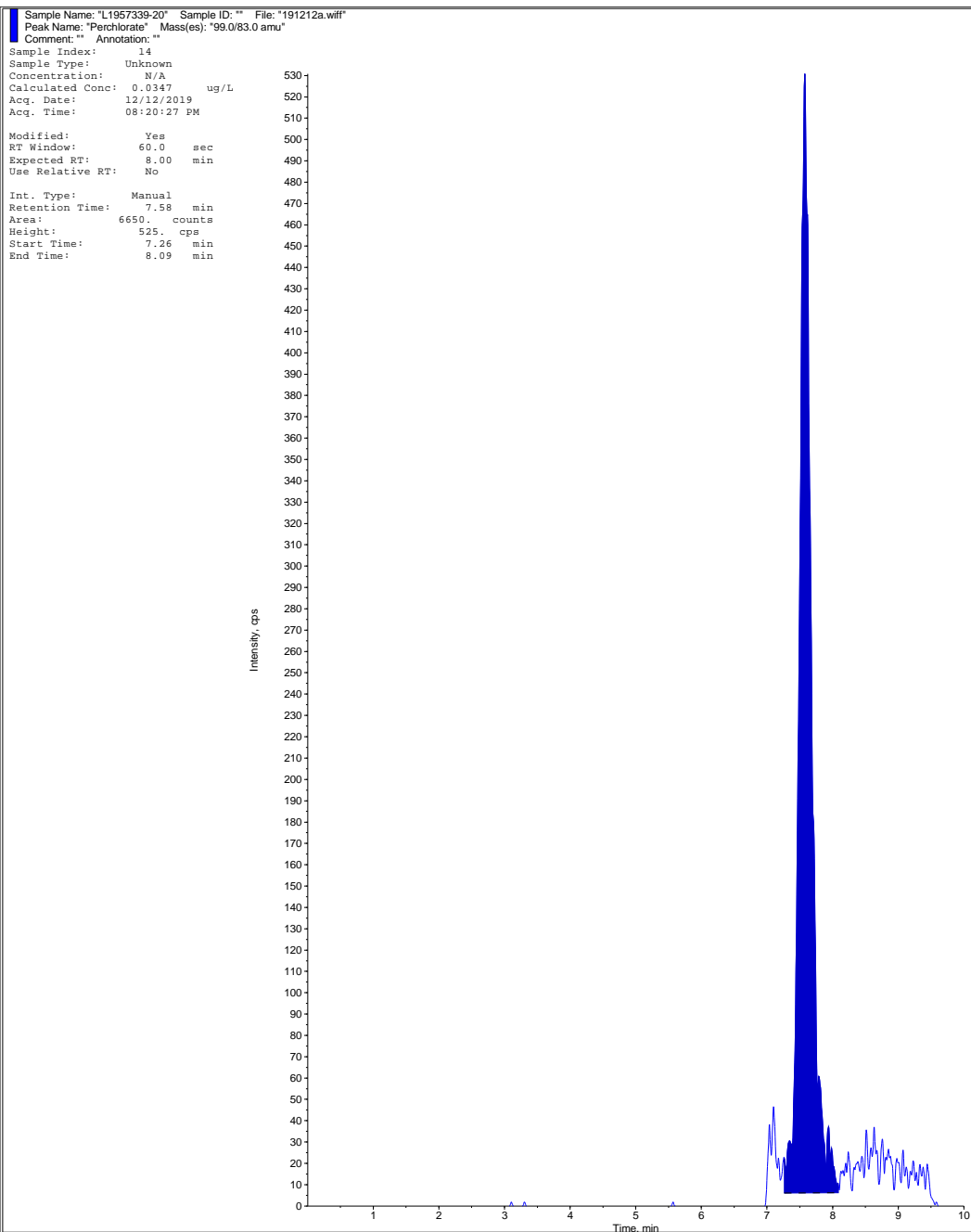
Int. Type: Base To Base
Retention Time: 7.56 min
Area: 282000 counts
Height: 21200 cps
Start Time: 6.97 min
End Time: 8.53 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator



Collected by: N/A
Electronic Signature: no
Operator: Administrator



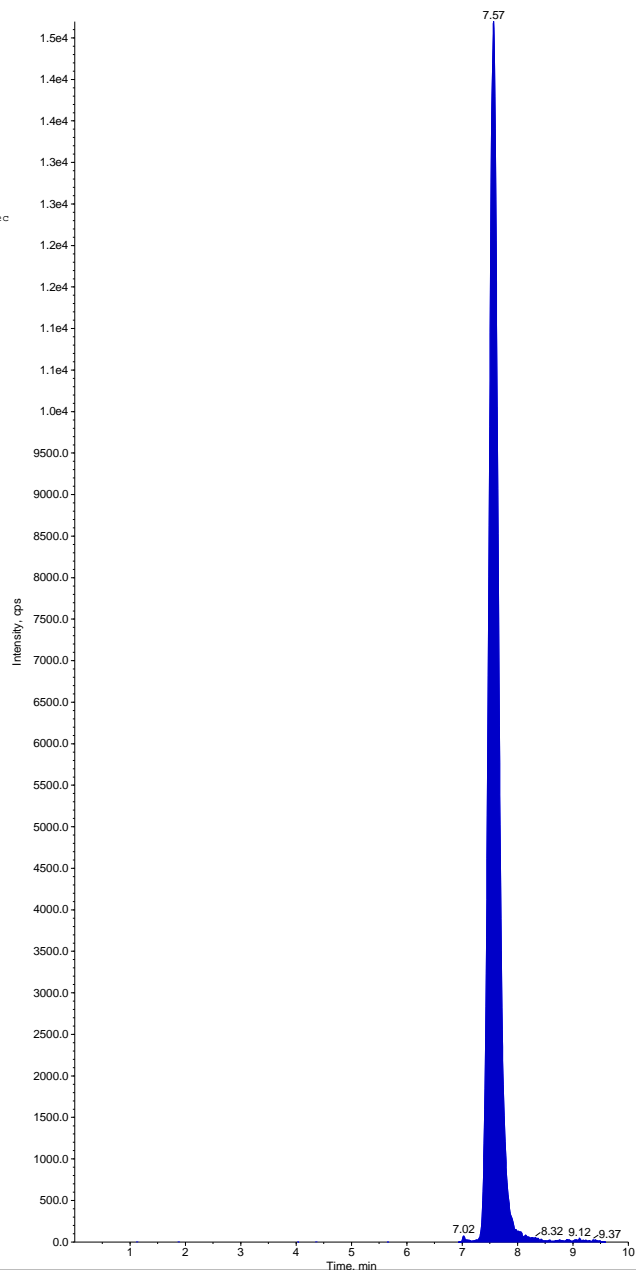
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-20" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

Sample Index: 14
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 08:20:27 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.57 min
Area: 182000 counts
Height: 14700 cps
Start Time: 6.92 min
End Time: 9.60 min



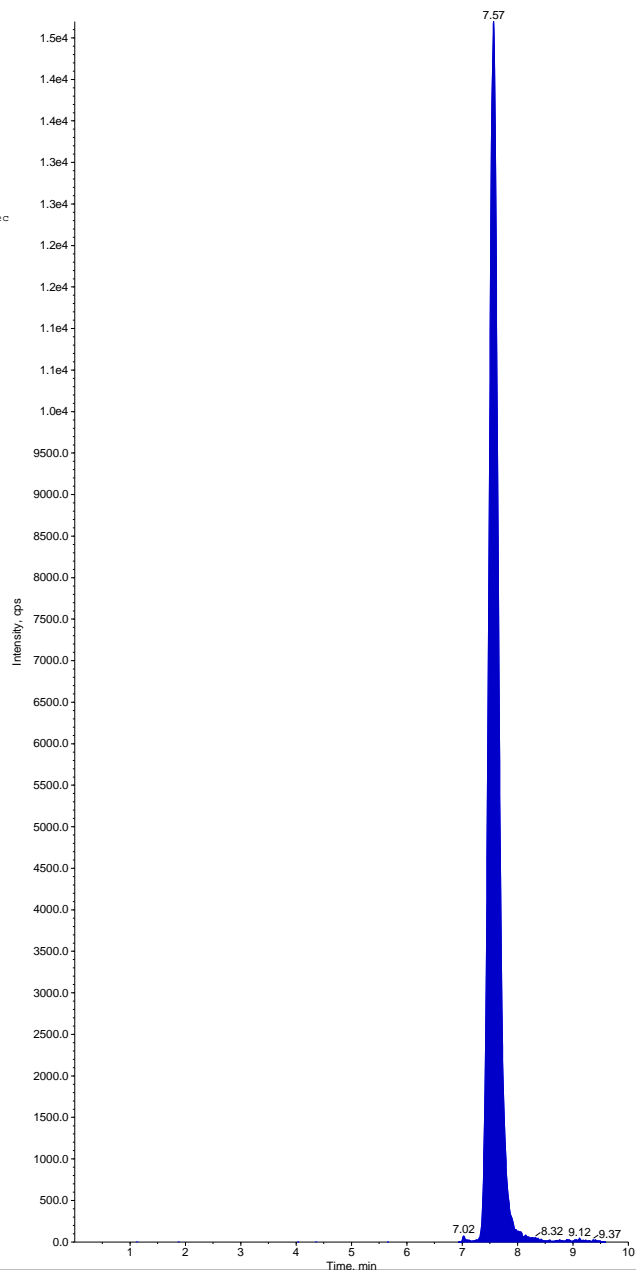
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-20" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

Sample Index: 14
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 08:20:27 PM

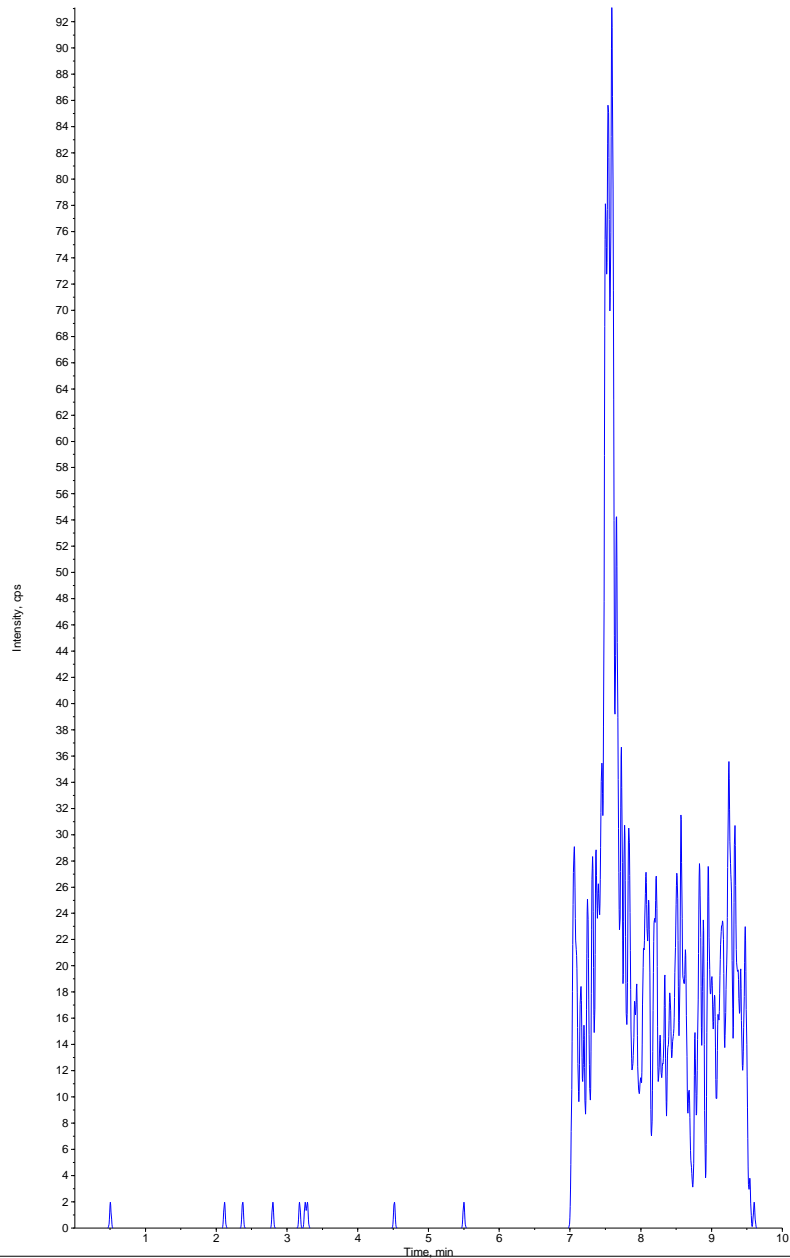
Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.57 min
Area: 182000 counts
Height: 14700 cps
Start Time: 6.92 min
End Time: 9.60 min

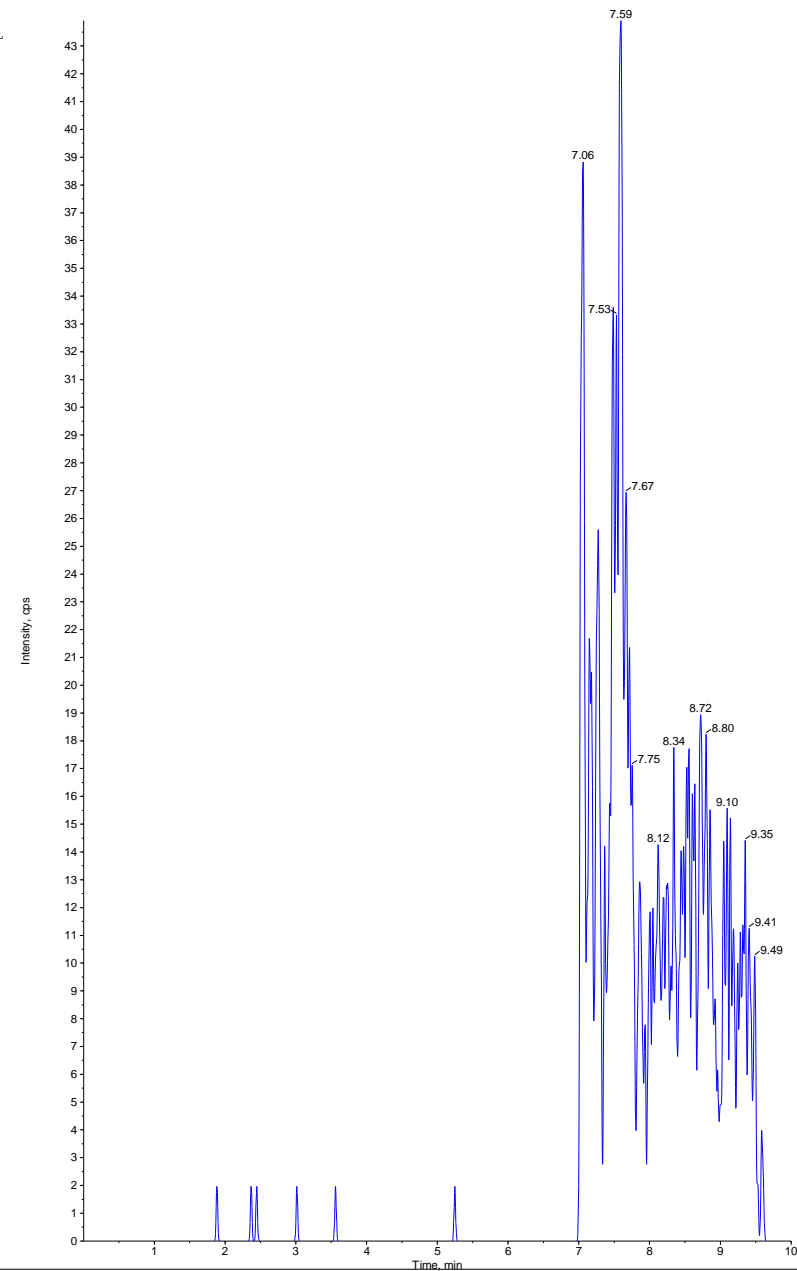


Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-21" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "" Annotation: ""
Sample Index: 15
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/12/2019
Acq. Time: 08:32:25 PM
Modified: No

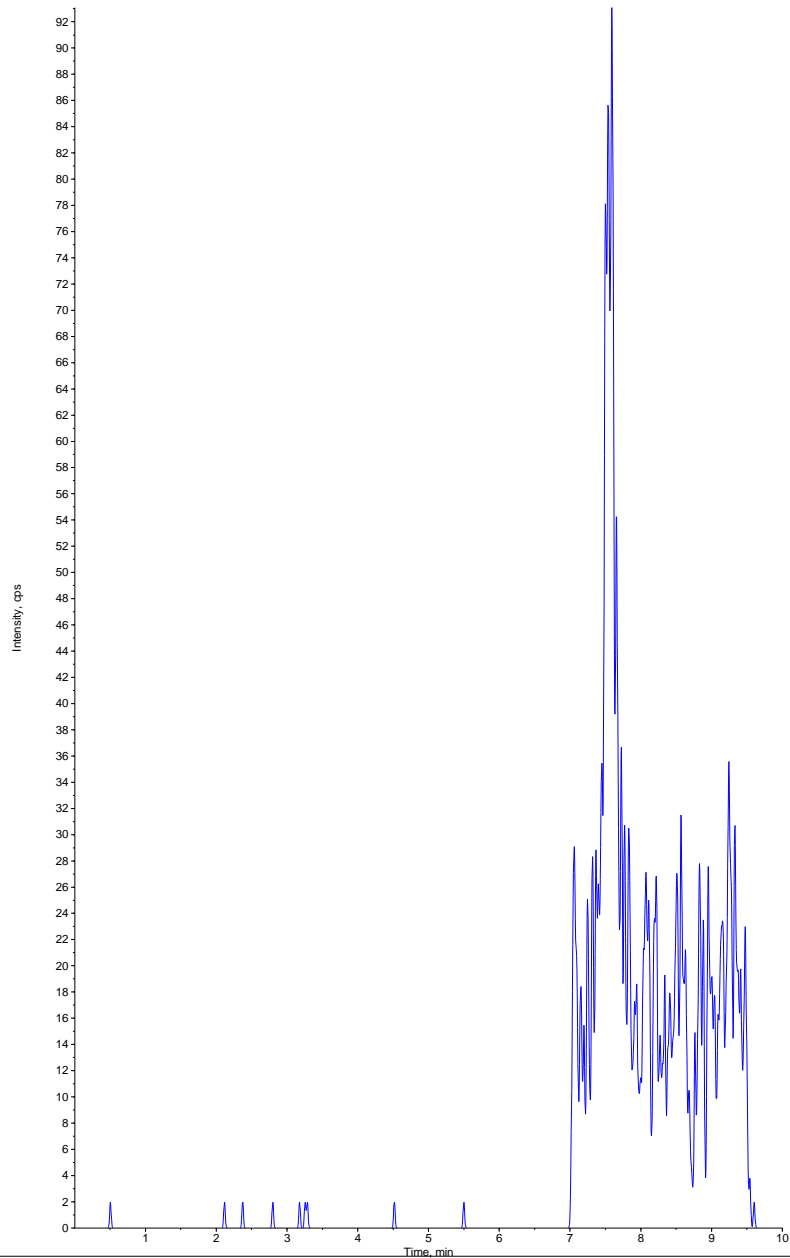


Sample Name: "L1957339-21" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "" Annotation: ""
Sample Index: 15
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/12/2019
Acq. Time: 08:32:25 PM
Modified: No

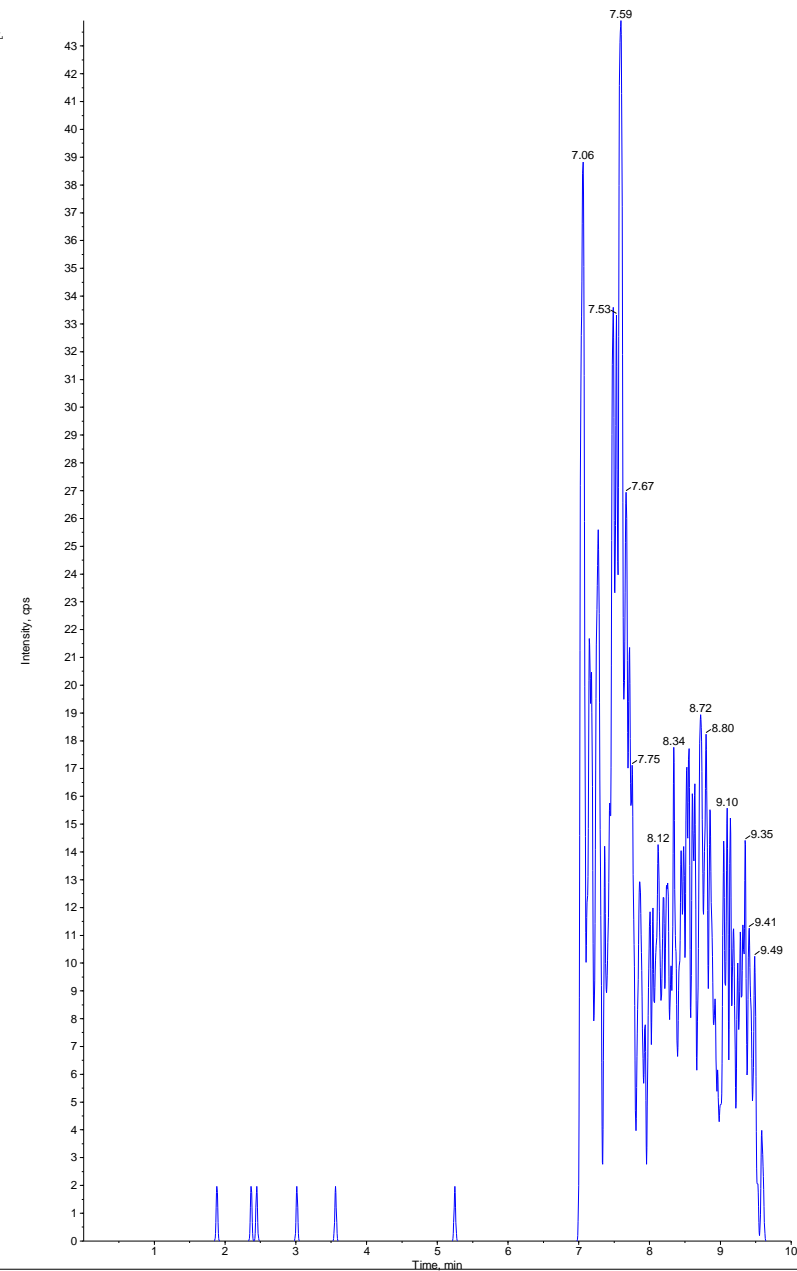


Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-21" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "" Annotation: ""
Sample Index: 15
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/12/2019
Acq. Time: 08:32:25 PM
Modified: Yes



Sample Name: "L1957339-21" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "" Annotation: ""
Sample Index: 15
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/12/2019
Acq. Time: 08:32:25 PM
Modified: Yes



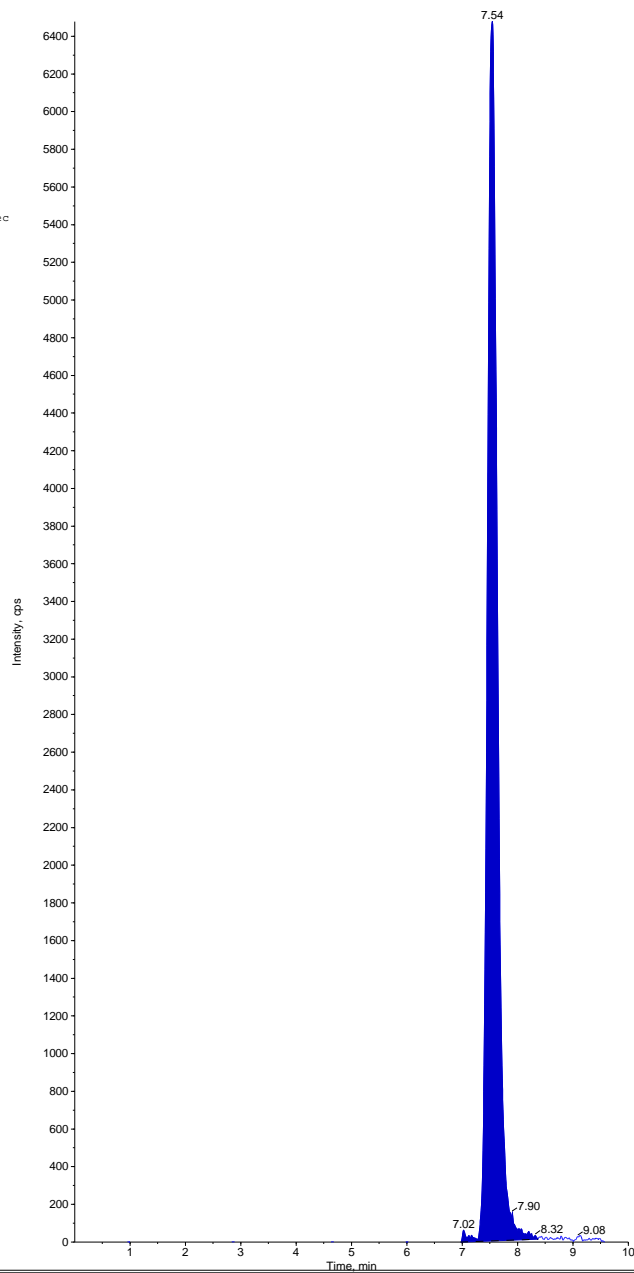
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-21" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

Sample Index: 15
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 08:32:25 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

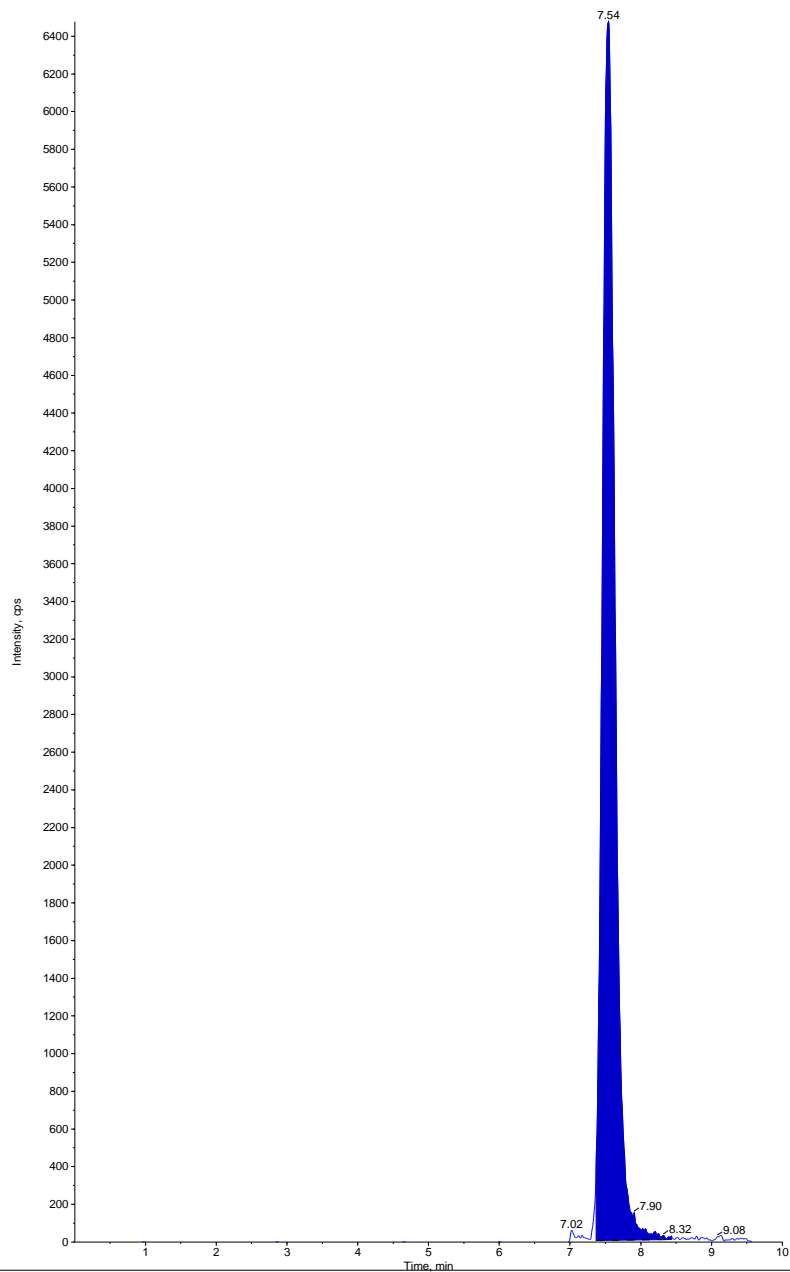
Int. Type: Base To Base
Retention Time: 7.54 min
Area: 82300 counts
Height: 6470 cps
Start Time: 6.97 min
End Time: 8.37 min



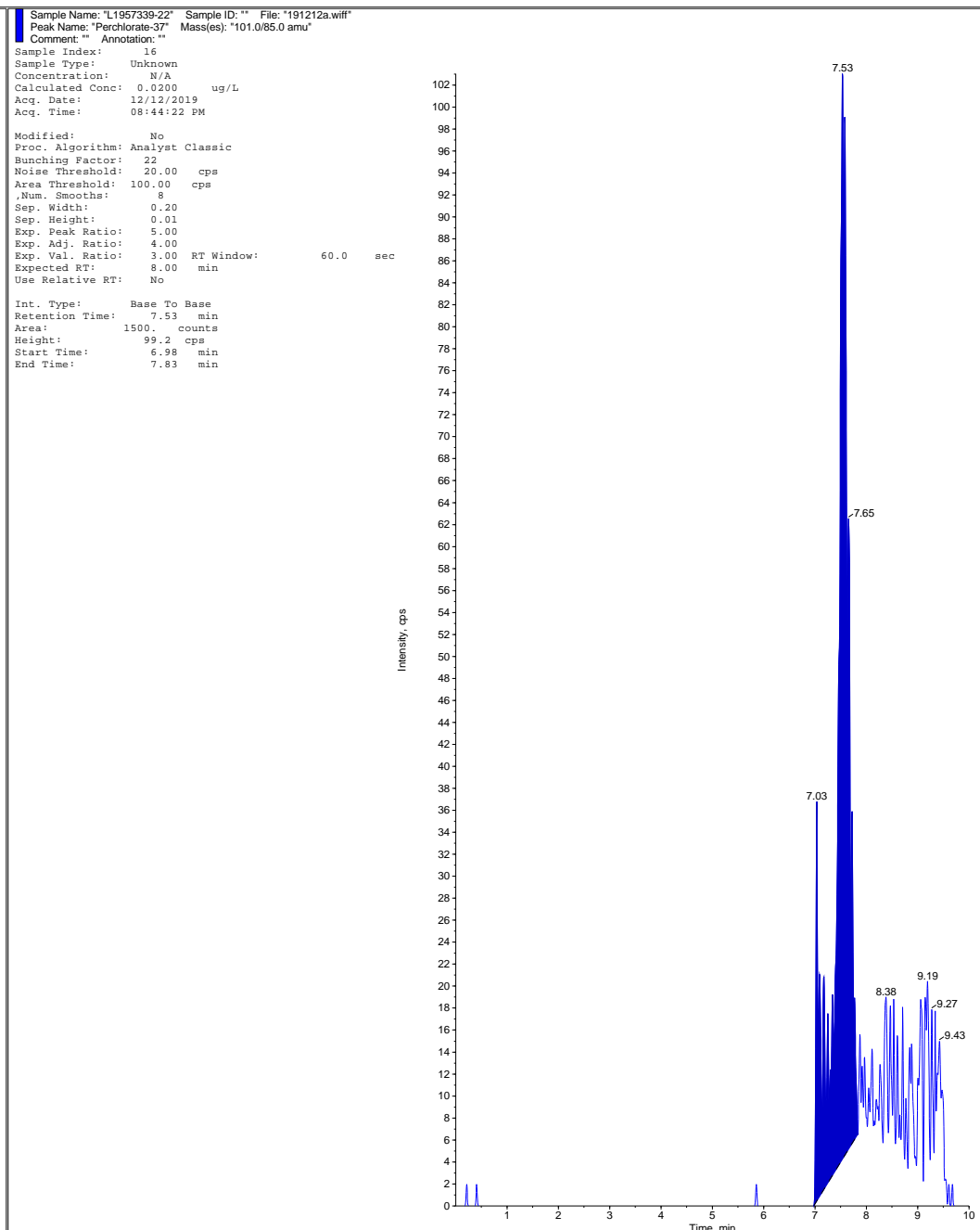
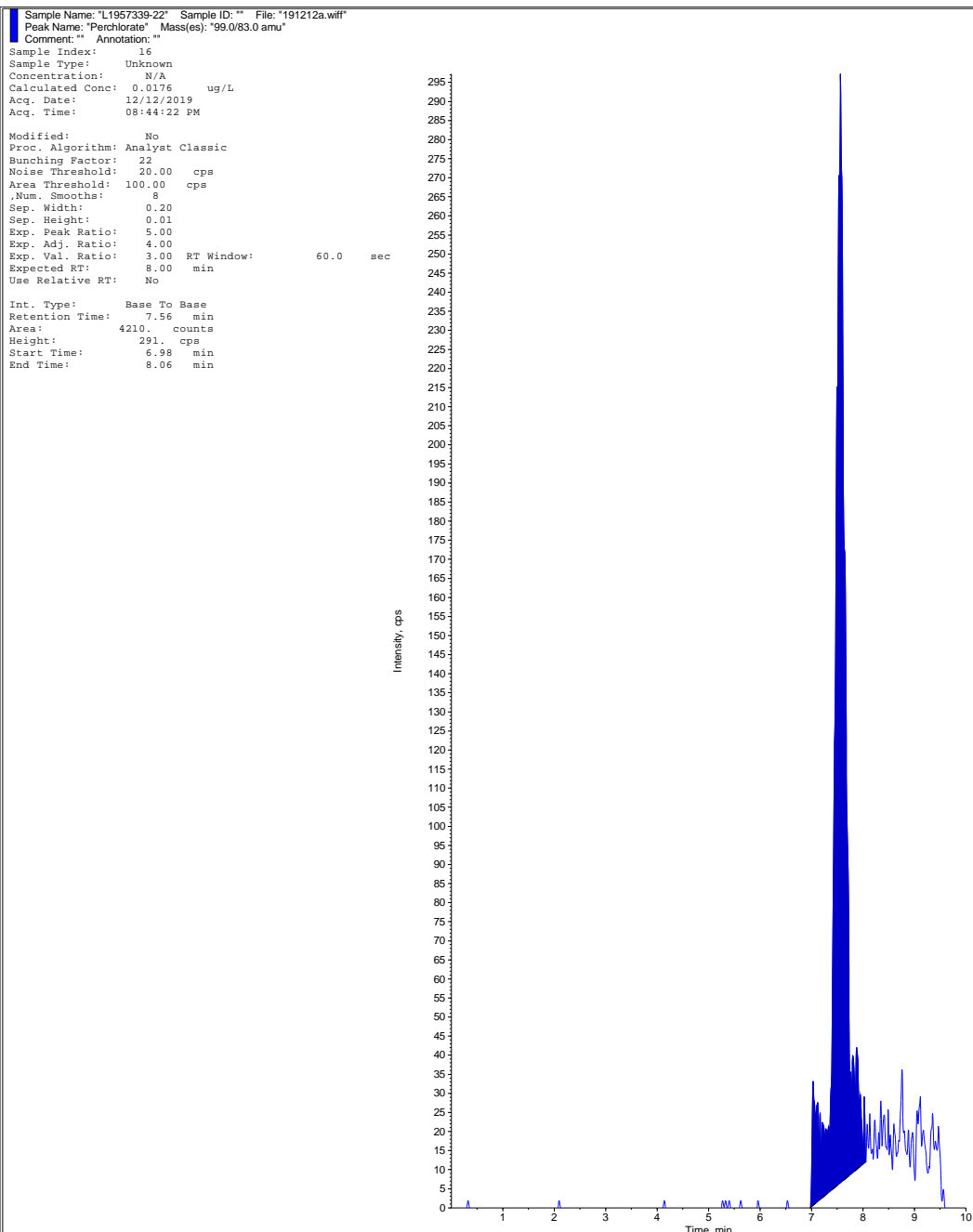
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "11957339-21" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

Sample Index: 15
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 08:32:25 PM
Modified: Yes
RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No
Int. Type: Manual
Retention Time: 7.54 min
Area: 81200 counts
Height: 6470. cps
Start Time: 7.37 min
End Time: 8.43 min



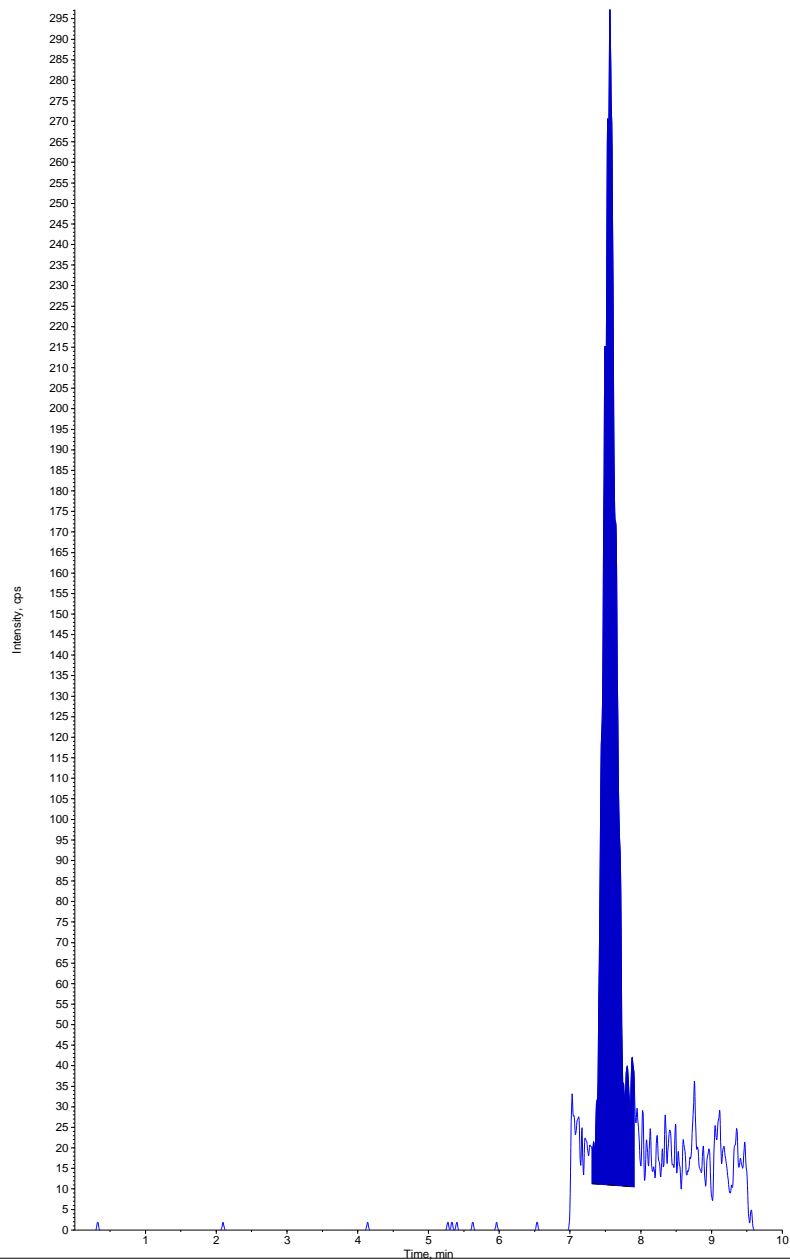
Collected by: N/A
Electronic Signature: no
Operator: Administrator



Collected by: N/A
Electronic Signature: no
Operator: Administrator

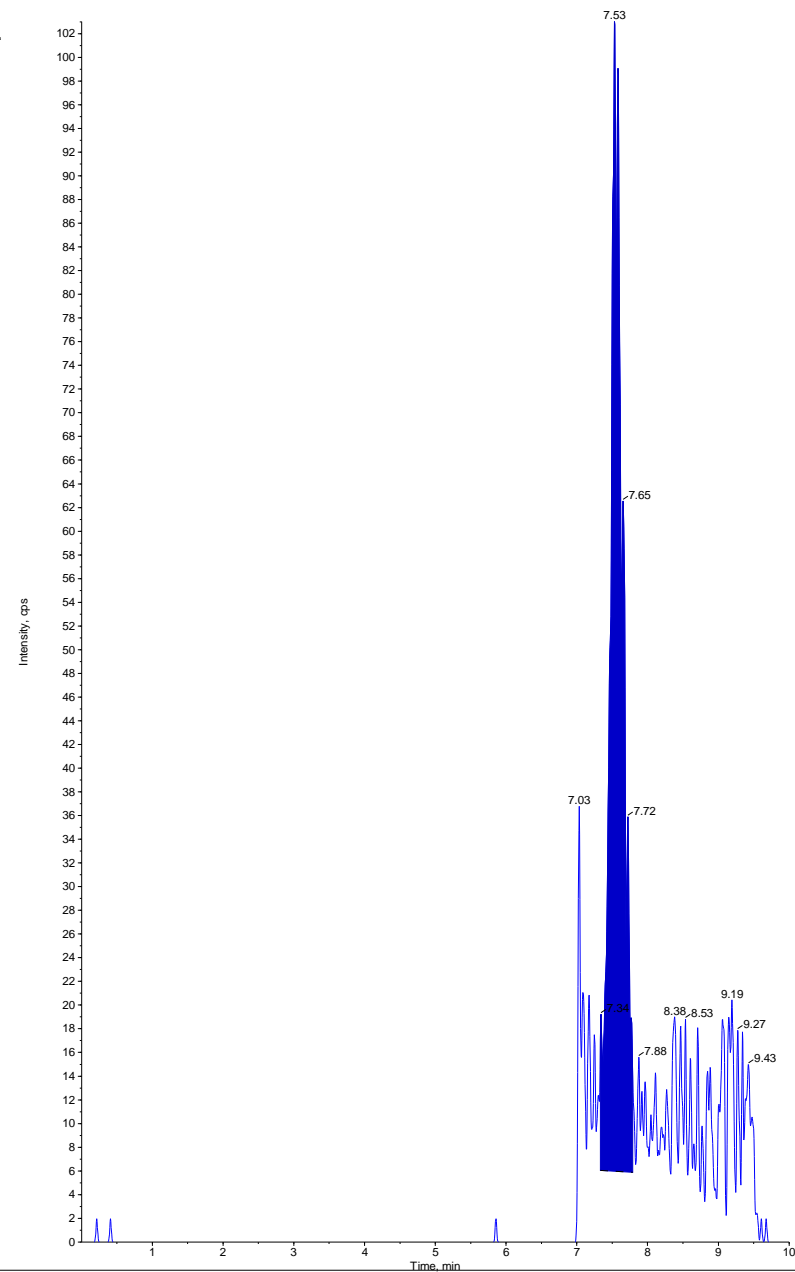
Sample Name: "L1957339-22" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"

Comment: "" Annotation: ""
Sample Index: 16
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.0146 ug/L
Acq. Date: 12/12/2019
Acq. Time: 08:44:22 PM
Modified: Yes
RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No
Int. Type: Manual
Retention Time: 7.56 min
Area: 3580 counts
Height: 286. cps
Start Time: 7.31 min
End Time: 7.91 min



Sample Name: "L1957339-22" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"

Comment: "" Annotation: ""
Sample Index: 16
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.0152 ug/L
Acq. Date: 12/12/2019
Acq. Time: 08:44:22 PM
Modified: Yes
RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No
Int. Type: Manual
Retention Time: 7.53 min
Area: 1170. counts
Height: 97.4 cps
Start Time: 7.33 min
End Time: 7.79 min



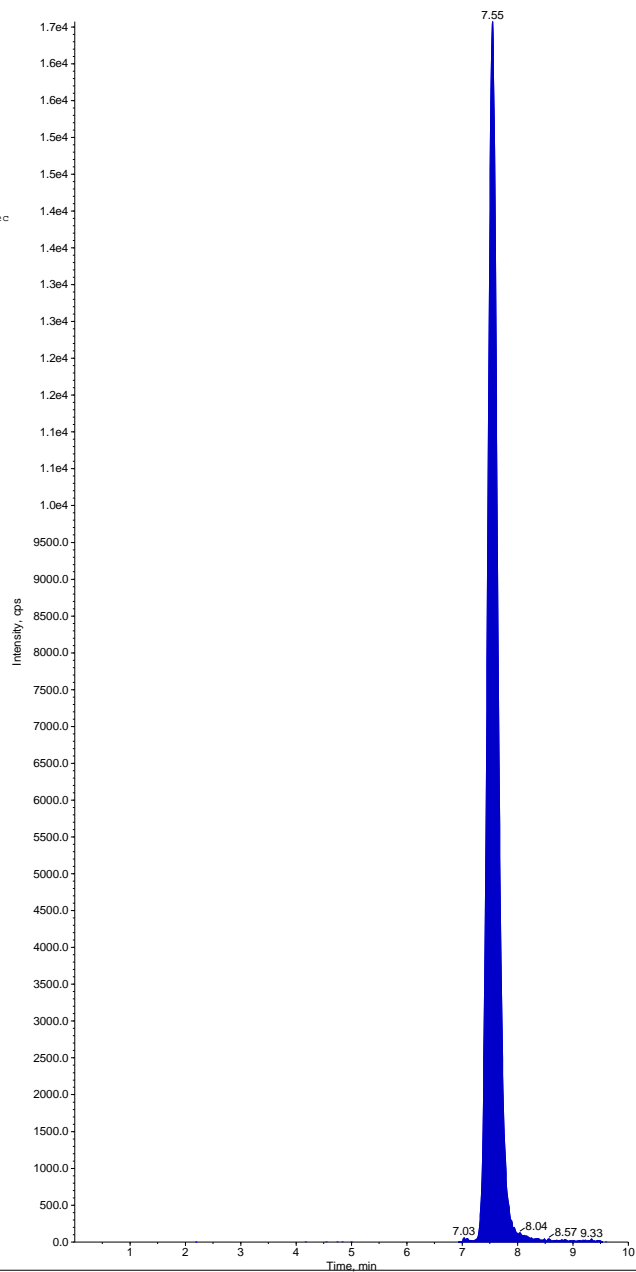
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-22" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

Sample Index: 16
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 08:44:22 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.55 min
Area: 216000 counts
Height: 16600 cps
Start Time: 6.93 min
End Time: 9.54 min



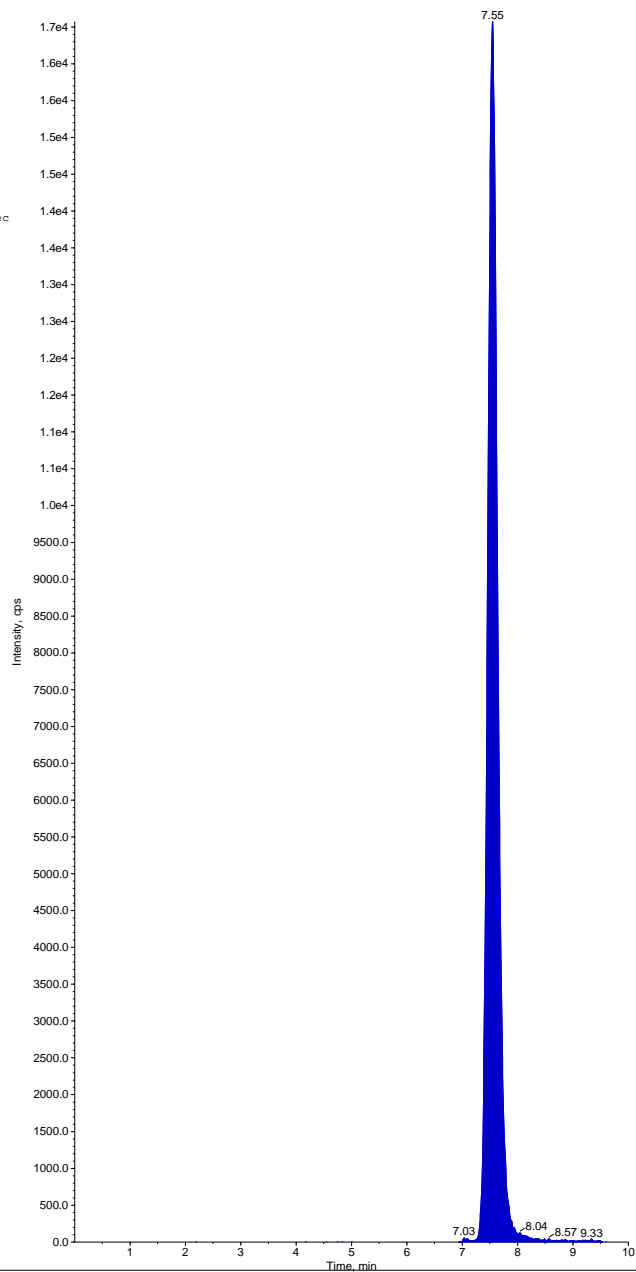
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-22" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

Sample Index: 16
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 08:44:22 PM

Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.55 min
Area: 216000 counts
Height: 16600 cps
Start Time: 6.93 min
End Time: 9.54 min



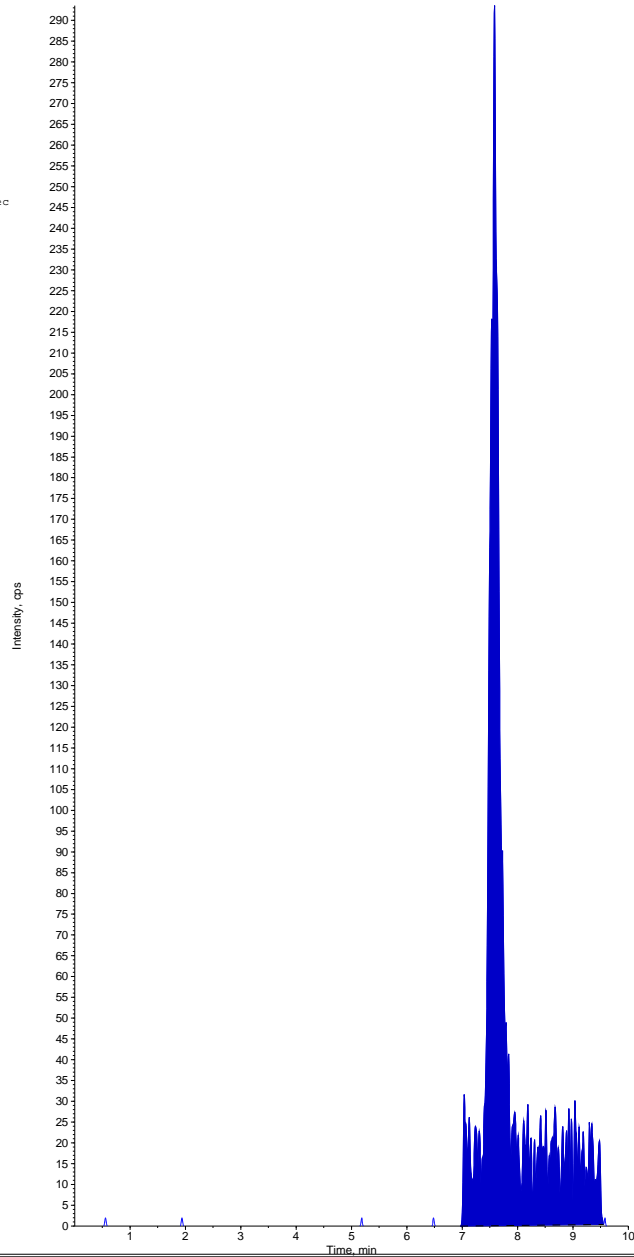
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-24" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-" Mass(es): "99.0/83.0 amu"

Comment: "" Annotation: ""
Sample Index: 17
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.0208 ug/L
Acq. Date: 12/12/2019
Acq. Time: 08:56:20 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 22
Noise Threshold: 20.00 cps
Area Threshold: 100.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

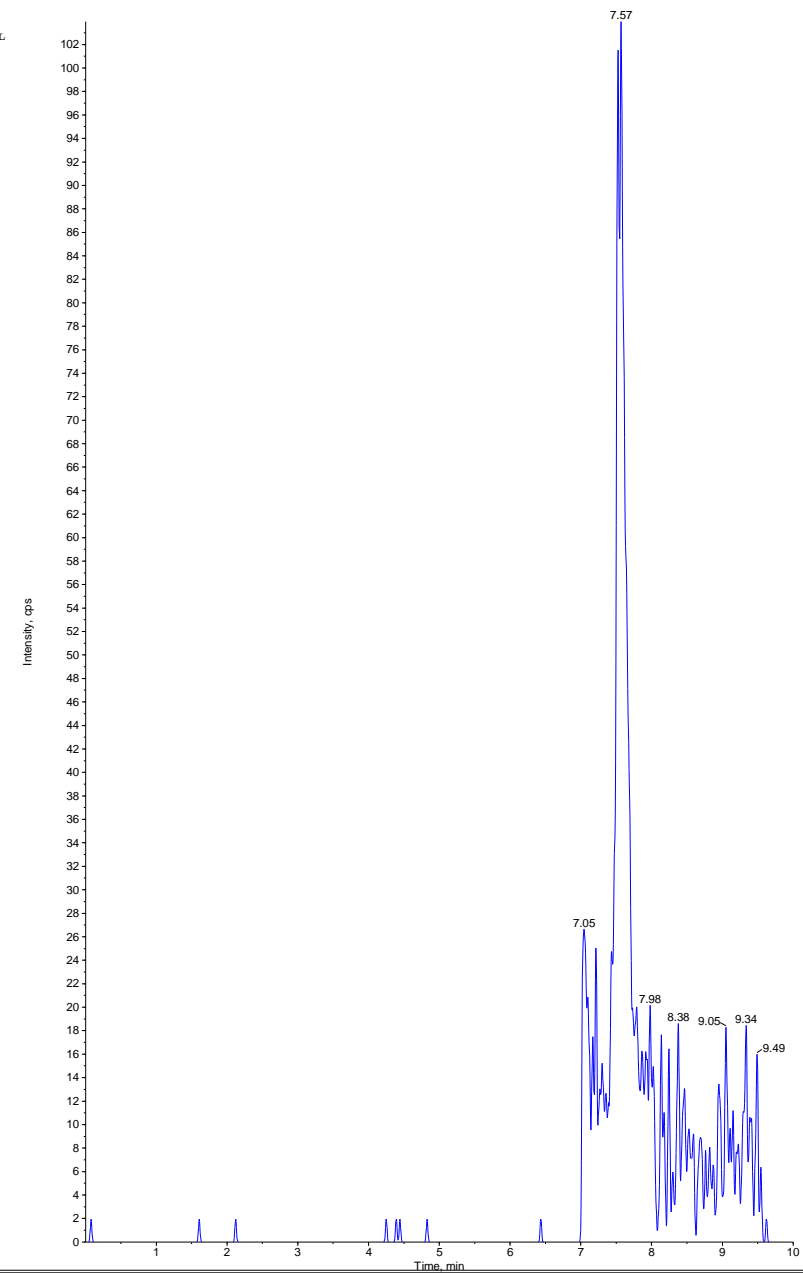
Int. Type: Base To Base
Retention Time: 7.58 min
Area: 5690 counts
Height: 294 cps
Start Time: 6.97 min
End Time: 9.55 min



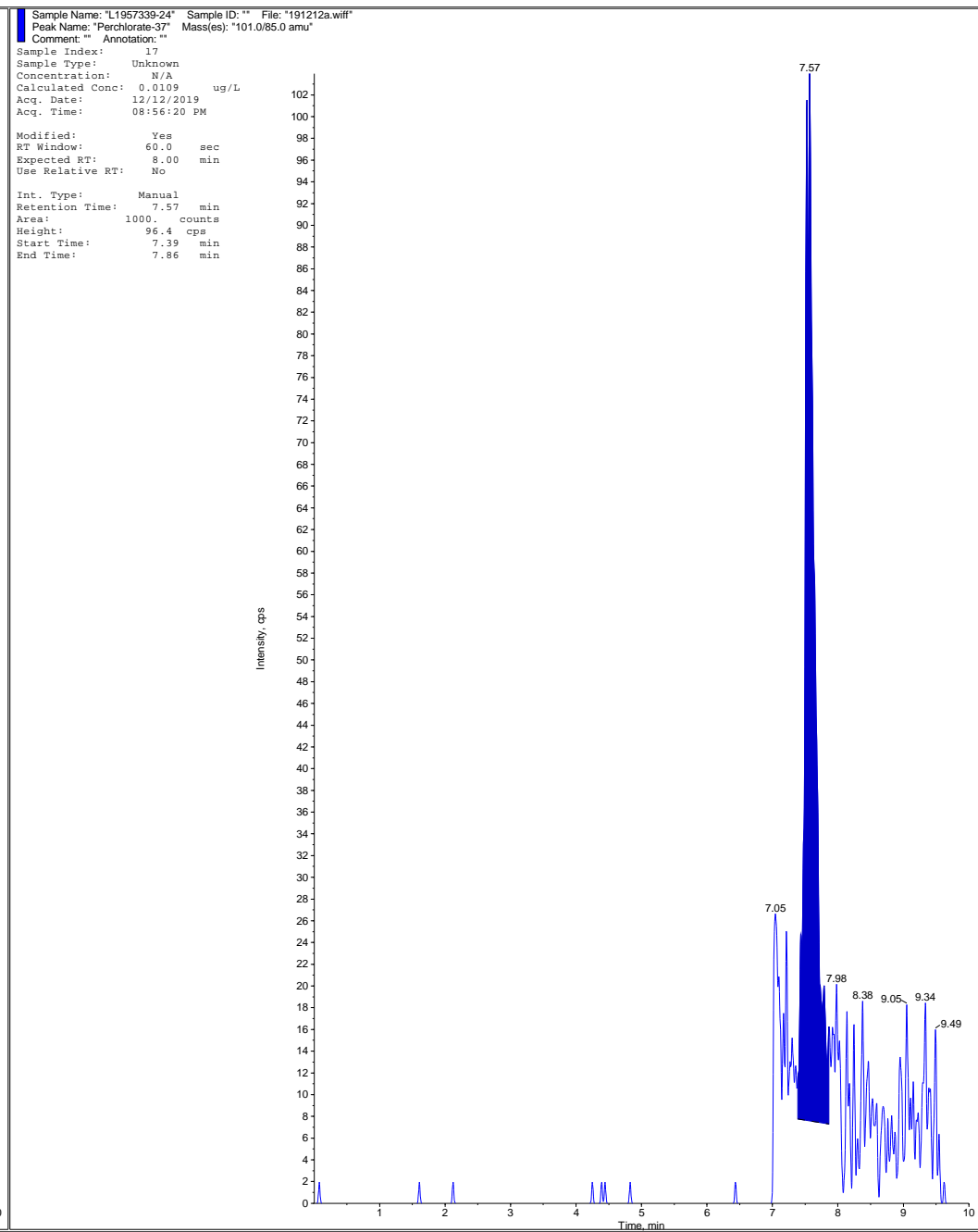
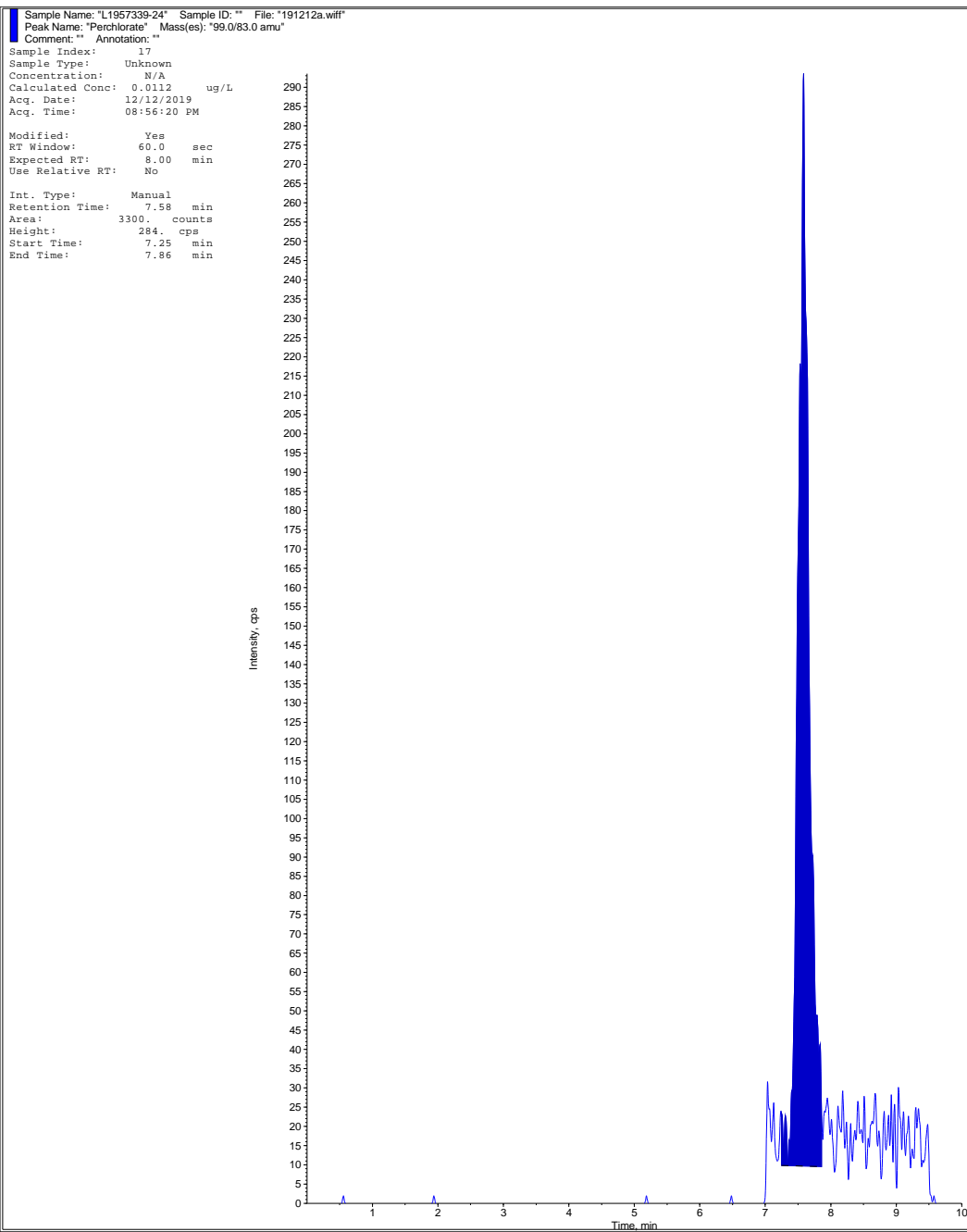
Sample Name: "L1957339-24" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"

Comment: "" Annotation: ""
Sample Index: 17
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/12/2019
Acq. Time: 08:56:20 PM

Modified: No



Collected by: N/A
Electronic Signature: no
Operator: Administrator



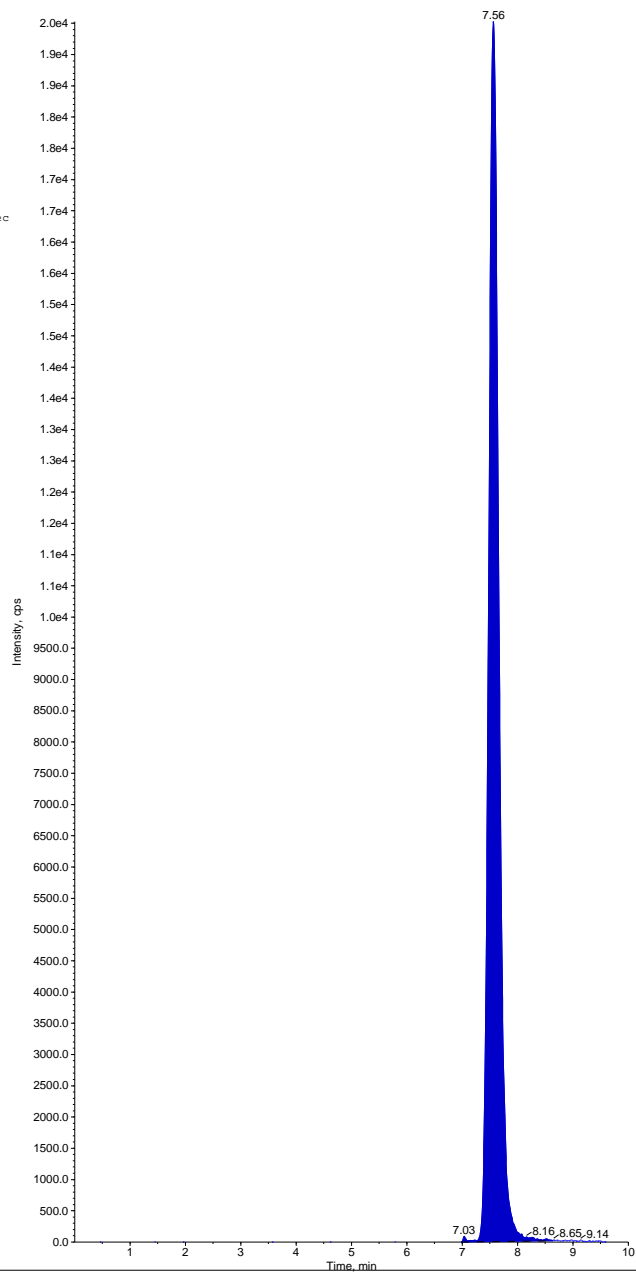
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-24" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

Sample Index: 17
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 08:56:20 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.56 min
Area: 251000 counts
Height: 19500 cps
Start Time: 6.98 min
End Time: 8.63 min



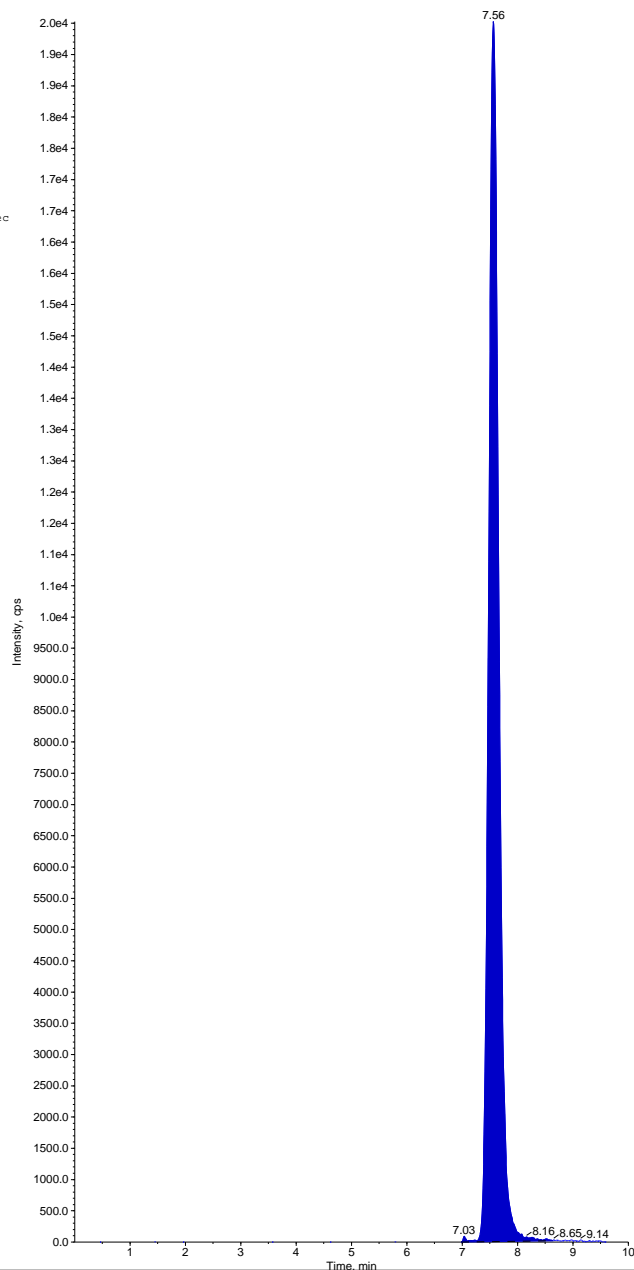
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-24" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

Sample Index: 17
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 08:56:20 PM

Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.56 min
Area: 251000 counts
Height: 19500 cps
Start Time: 6.98 min
End Time: 8.63 min



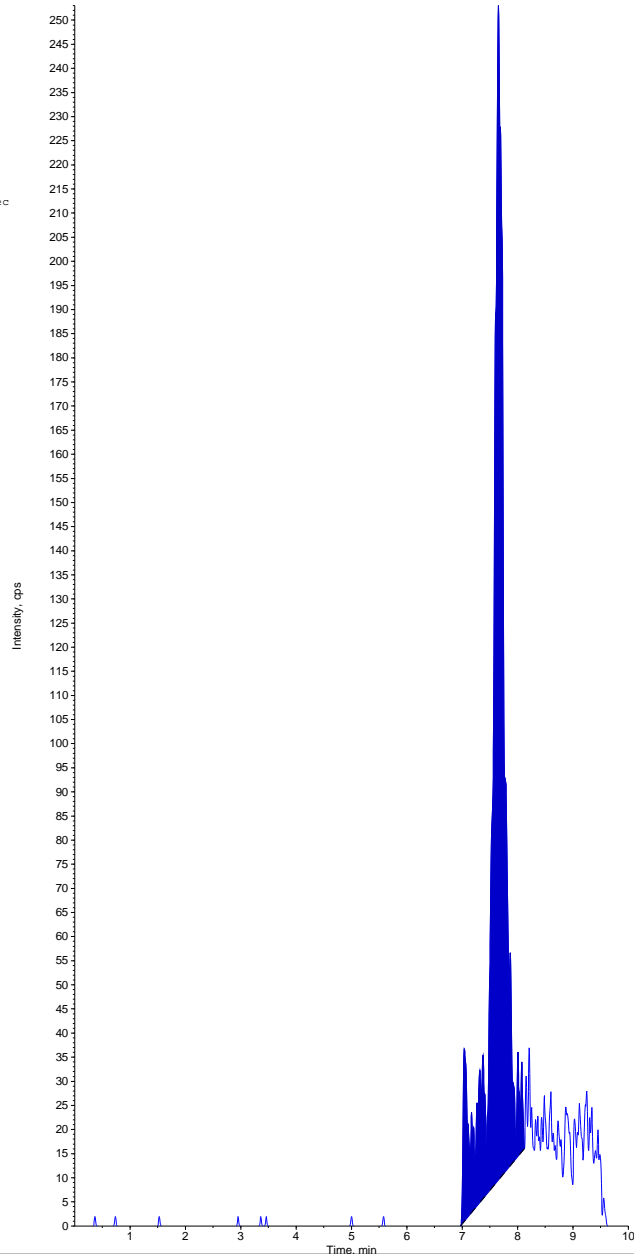
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-25" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-" Mass(es): "99.0/83.0 amu"

Comment: "" Annotation: ""
Sample Index: 18
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.0130 ug/L
Acq. Date: 12/12/2019
Acq. Time: 09:08:17 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 22
Noise Threshold: 20.00 cps
Area Threshold: 100.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

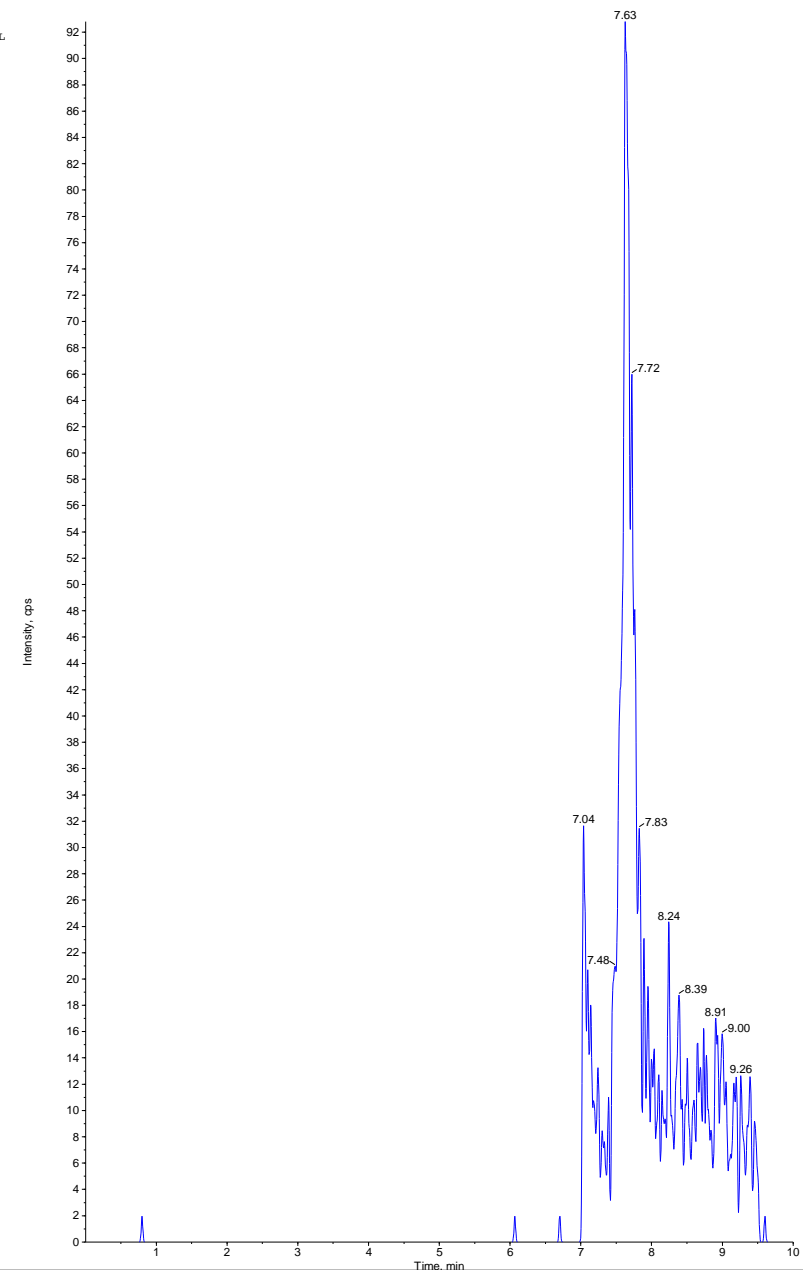
Int. Type: Base To Base
Retention Time: 7.65 min
Area: 3680 counts
Height: 244 cps
Start Time: 6.97 min
End Time: 8.12 min



Sample Name: "L1957339-25" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"

Comment: "" Annotation: ""
Sample Index: 18
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/12/2019
Acq. Time: 09:08:17 PM

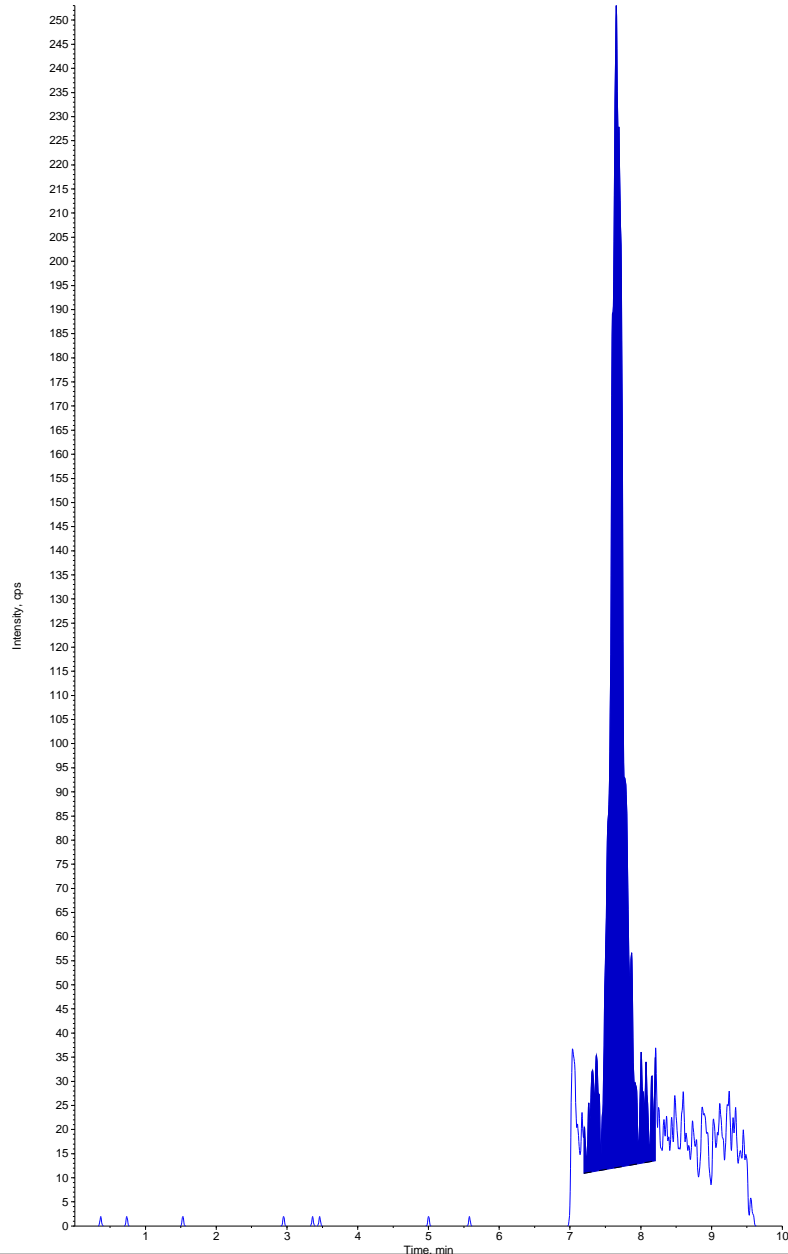
Modified: No



Collected by: N/A
Electronic Signature: no
Operator: Administrator

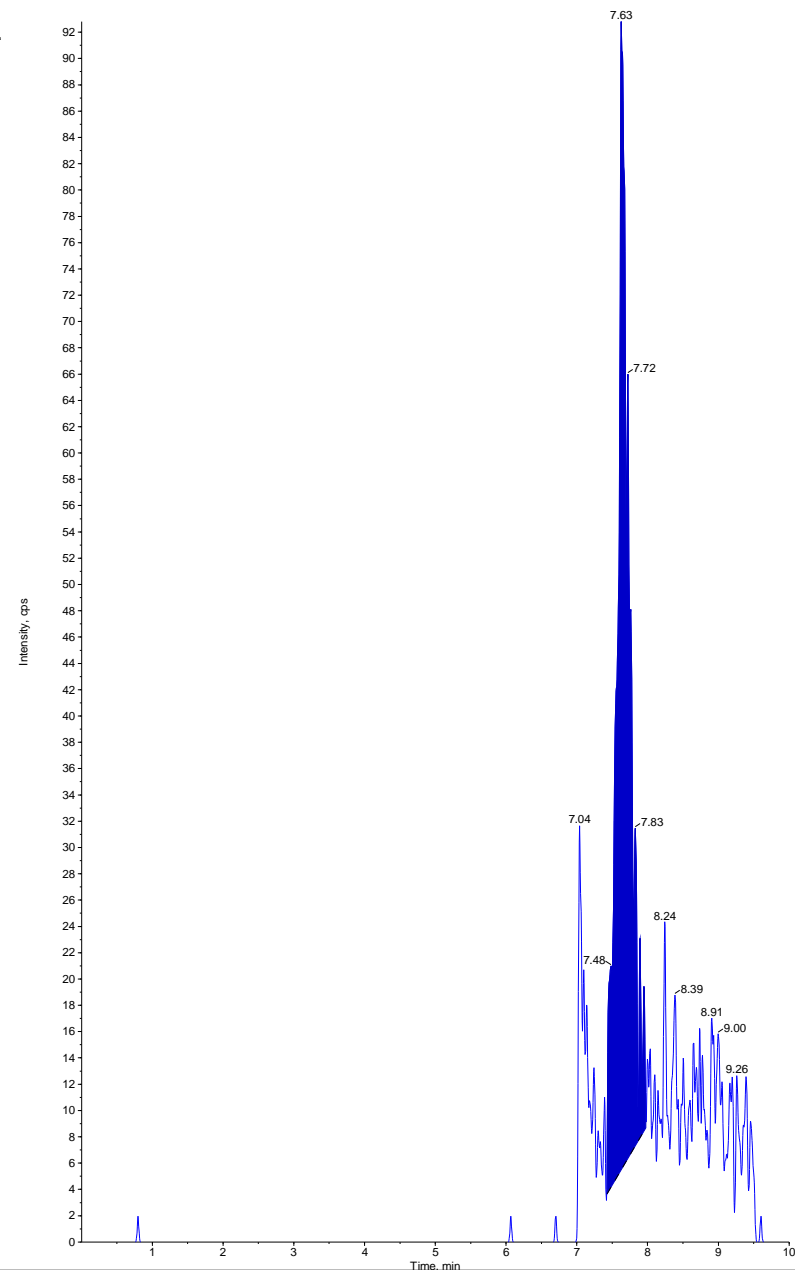
Sample Name: "L1957339-25" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"

Comment: "" Annotation: ""
Sample Index: 18
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.0116 ug/L
Acq. Date: 12/12/2019
Acq. Time: 09:08:17 PM
Modified: Yes
RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No
Int. Type: Manual
Retention Time: 7.65 min
Area: 3340 counts
Height: 241. cps
Start Time: 7.20 min
End Time: 8.20 min



Sample Name: "L1957339-25" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"

Comment: "" Annotation: ""
Sample Index: 18
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.0119 ug/L
Acq. Date: 12/12/2019
Acq. Time: 09:08:17 PM
Modified: Yes
RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No
Int. Type: Manual
Retention Time: 7.63 min
Area: 1070 counts
Height: 87.3 cps
Start Time: 7.43 min
End Time: 7.97 min



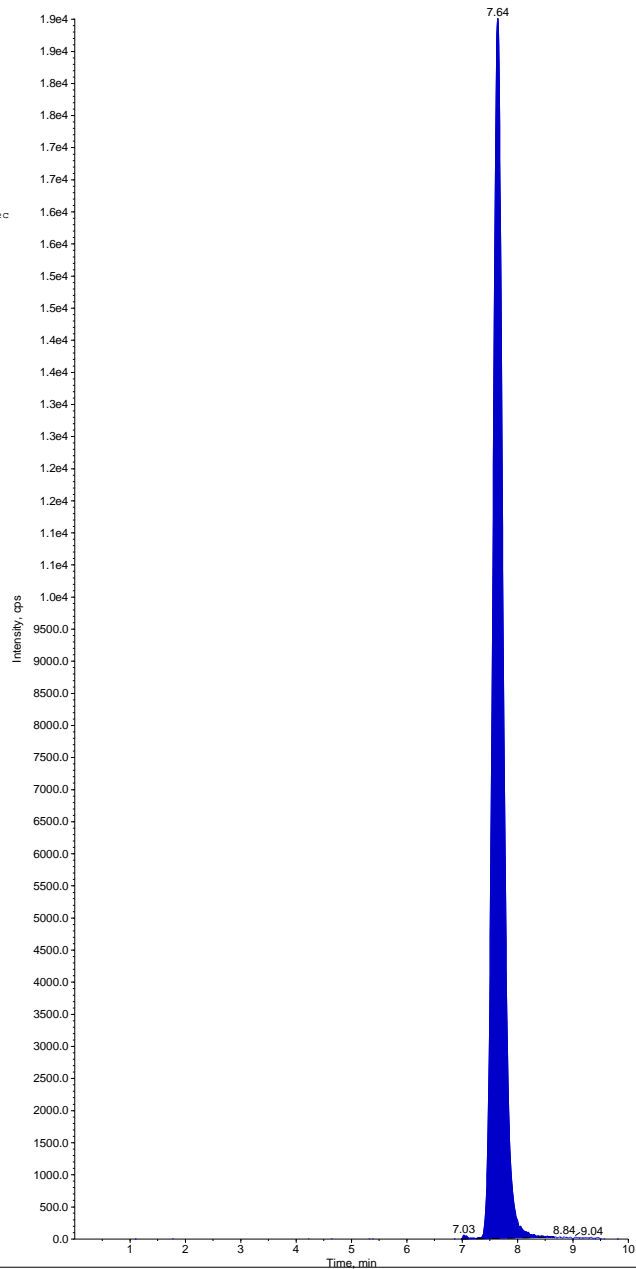
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'L1957339-25' Sample ID: '' File: '191212a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: '' Annotation: ''

Sample Index: 18
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 09:08:17 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.64 min
Area: 246000 counts
Height: 19000 cps
Start Time: 6.98 min
End Time: 8.66 min



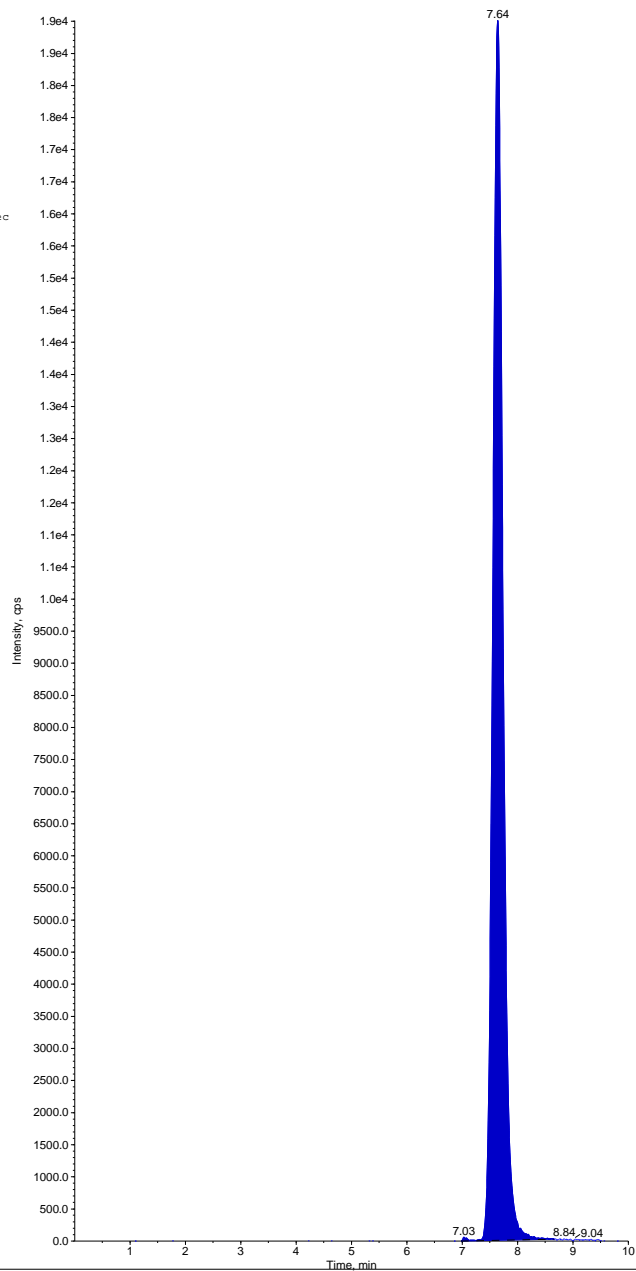
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'L1957339-25' Sample ID: '' File: '191212a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: '' Annotation: ''

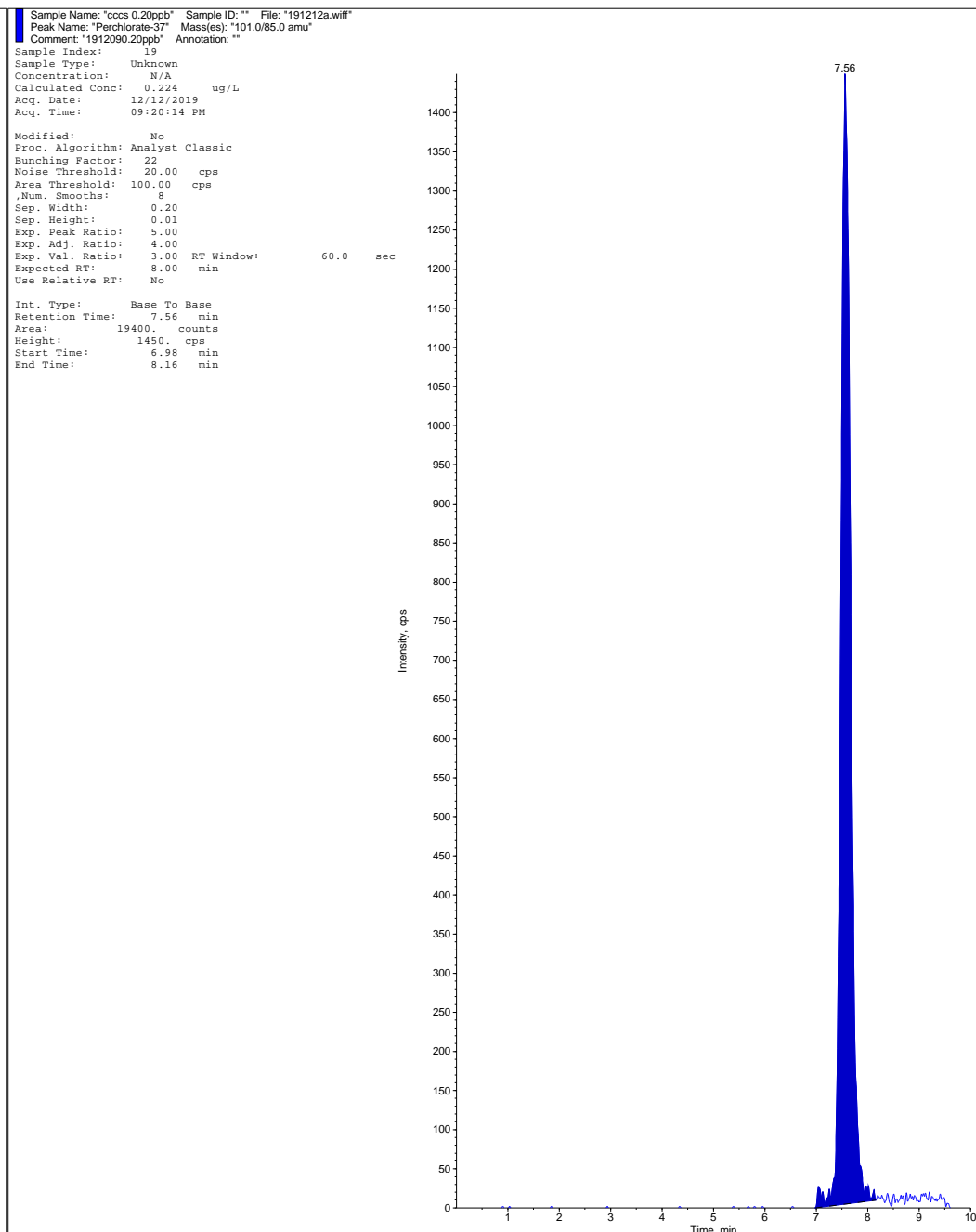
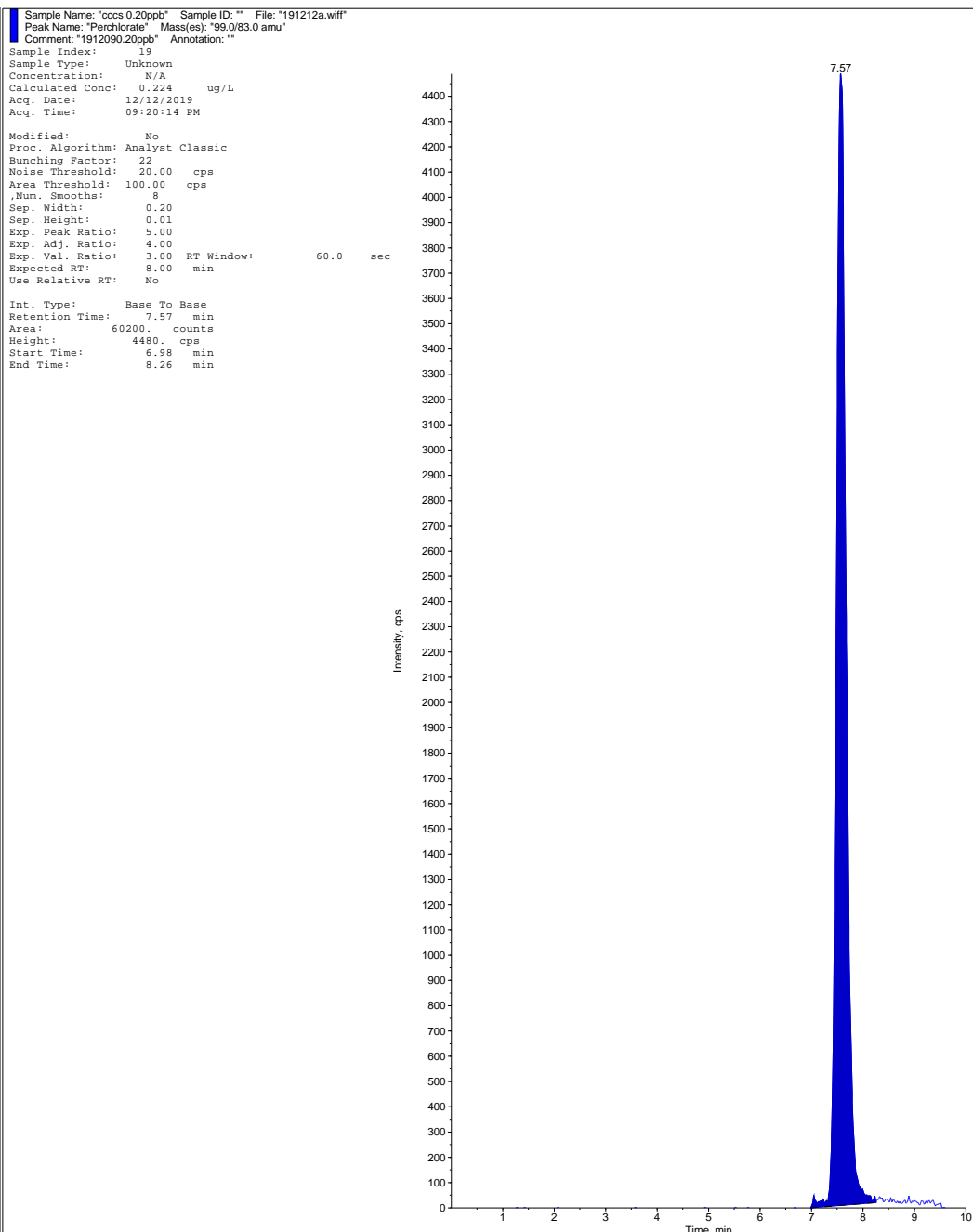
Sample Index: 18
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 09:08:17 PM

Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

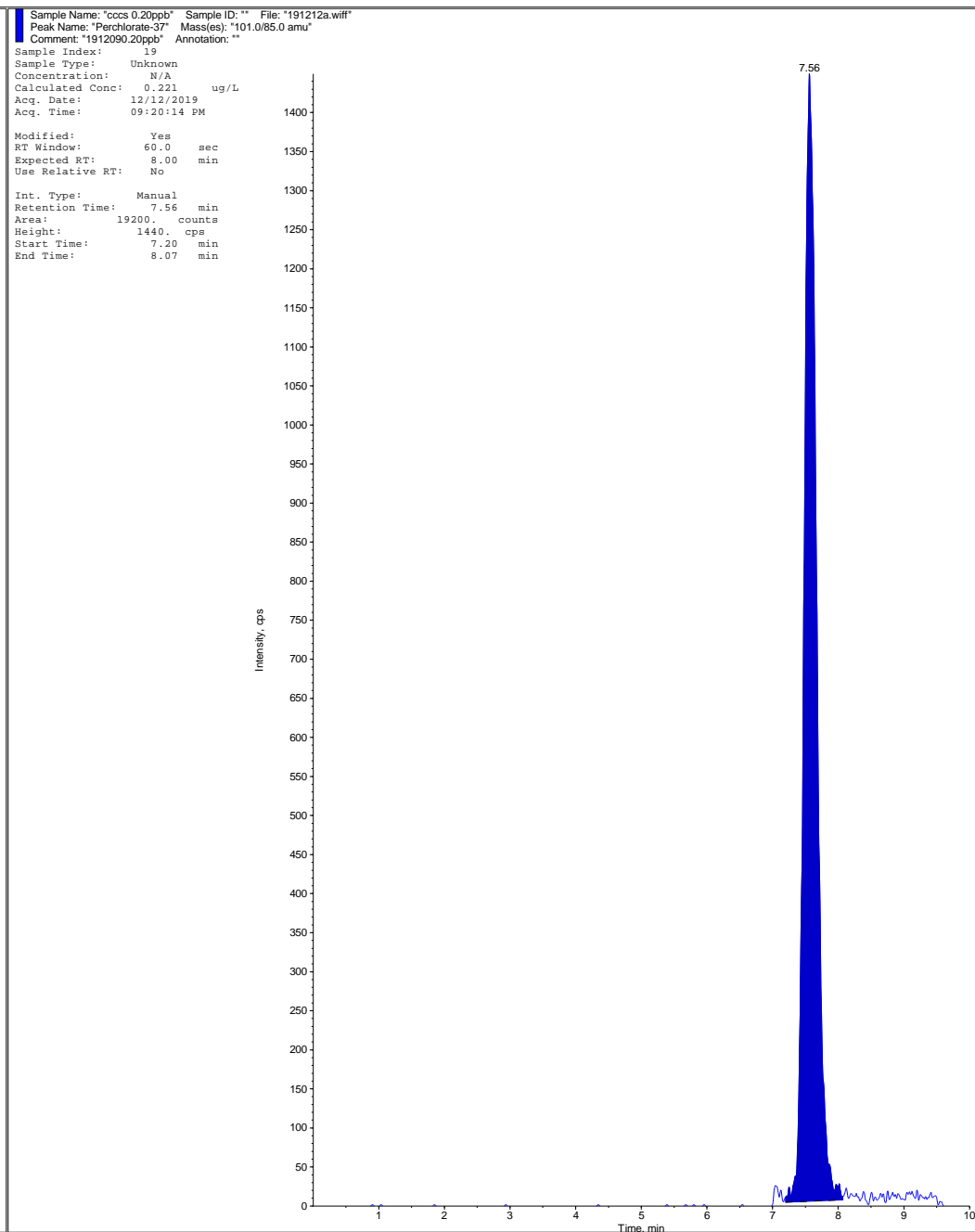
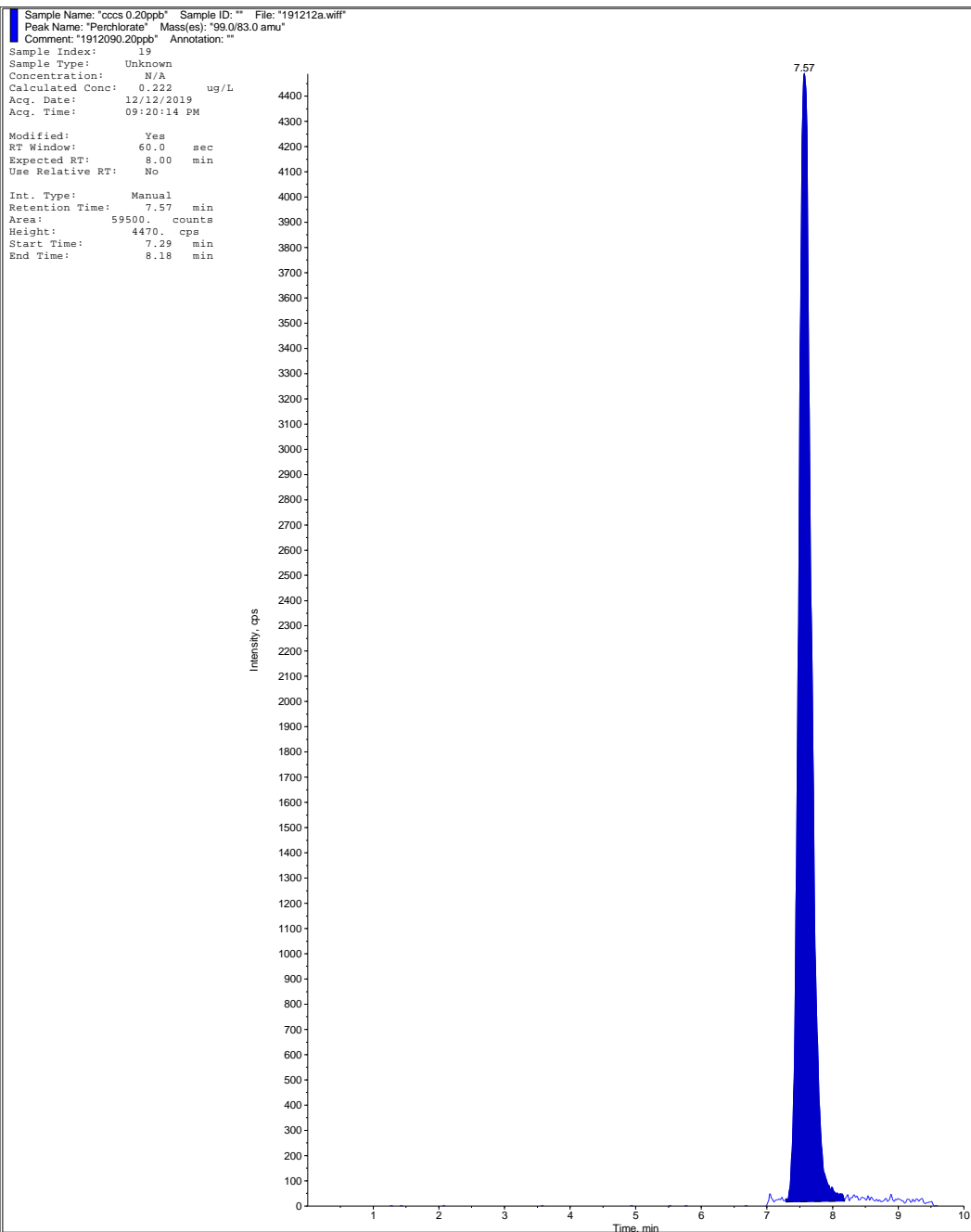
Int. Type: Base To Base
Retention Time: 7.64 min
Area: 246000 counts
Height: 19000 cps
Start Time: 6.98 min
End Time: 8.66 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator



Collected by: N/A
Electronic Signature: no
Operator: Administrator



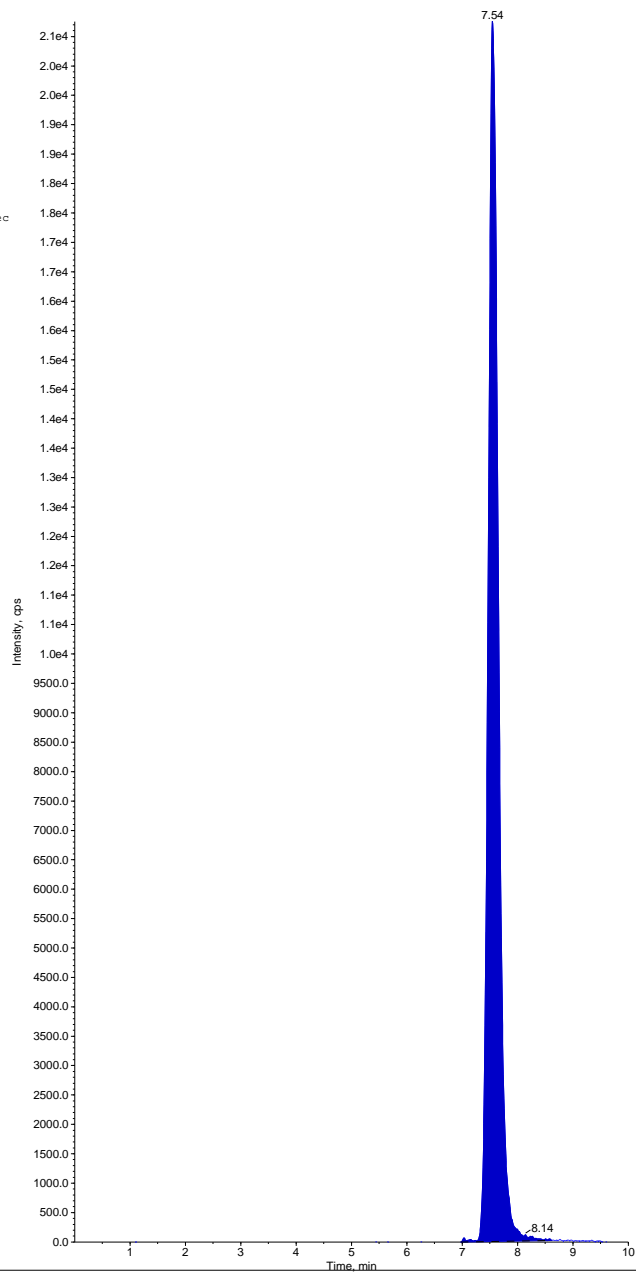
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'cccs 0.20ppb' Sample ID: '' File: '191212a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: '1912090.20ppb' Annotation: ''

Sample Index: 19
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 09:20:14 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.54 min
Area: 268000 counts
Height: 20800 cps
Start Time: 6.97 min
End Time: 8.61 min



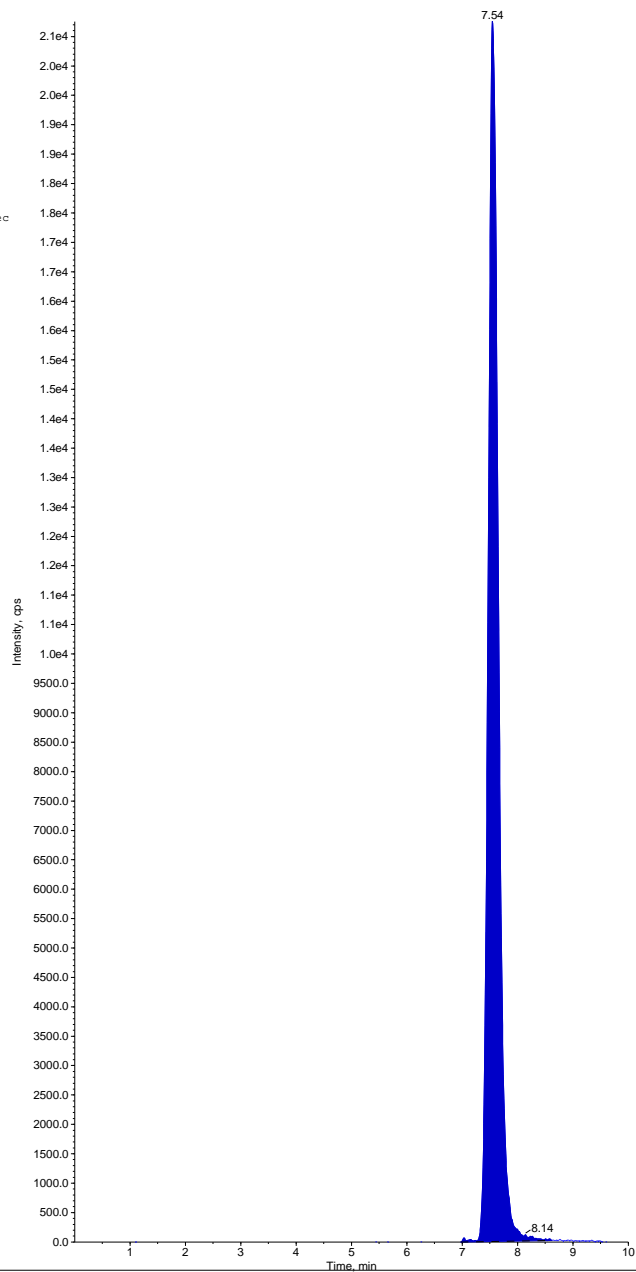
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'cccc 0.20ppb' Sample ID: '' File: '191212a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: '1912090.20ppb' Annotation: ''

Sample Index: 19
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 09:20:14 PM

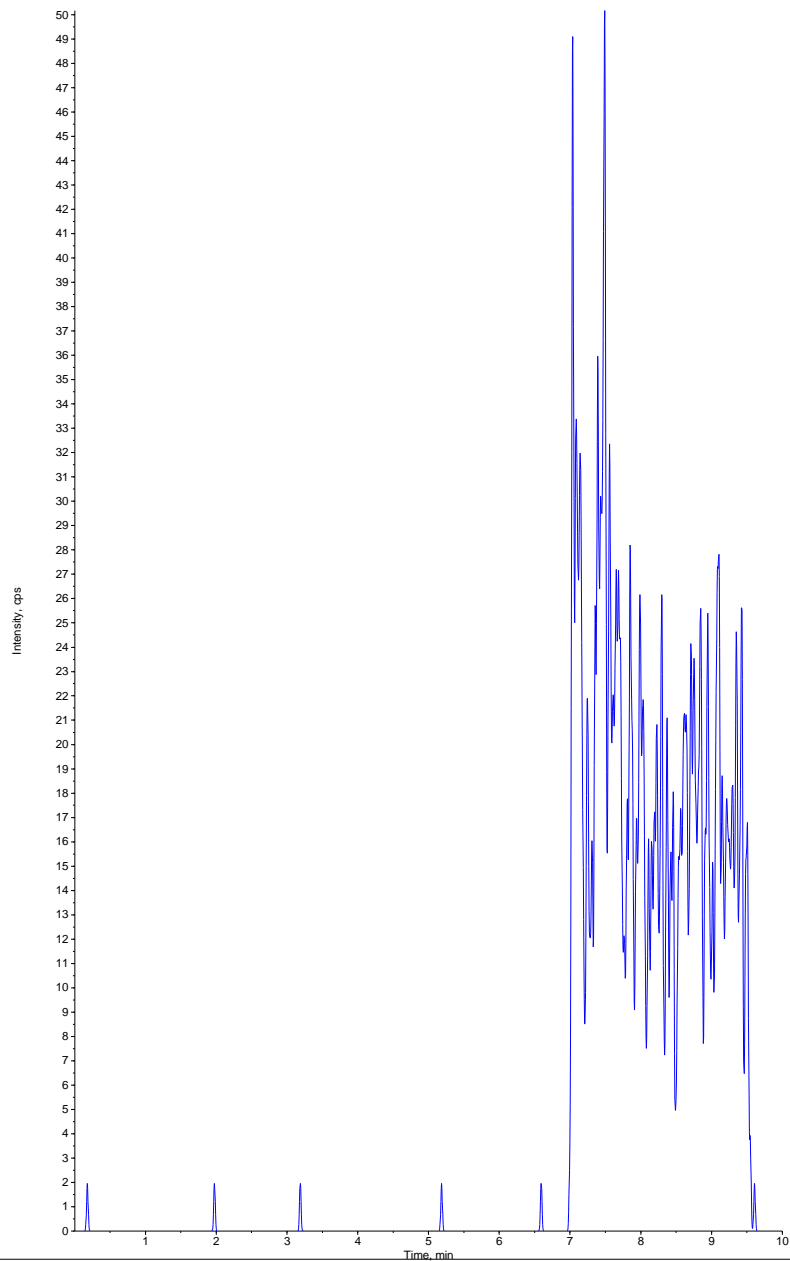
Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
,Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.54 min
Area: 268000 counts
Height: 20800 cps
Start Time: 6.97 min
End Time: 8.61 min

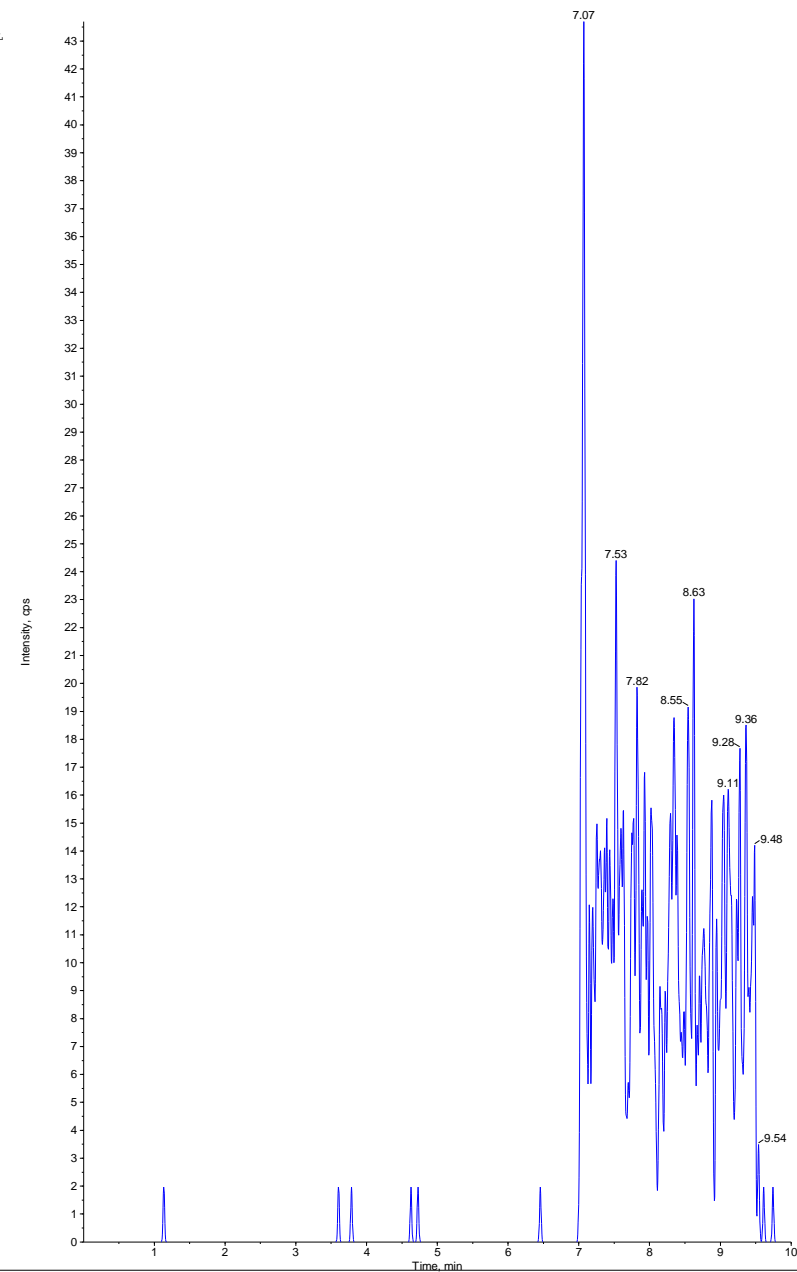


Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "blank04 is" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "" Annotation: ""
Sample Index: 20
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/12/2019
Acq. Time: 09:32:12 PM
Modified: No

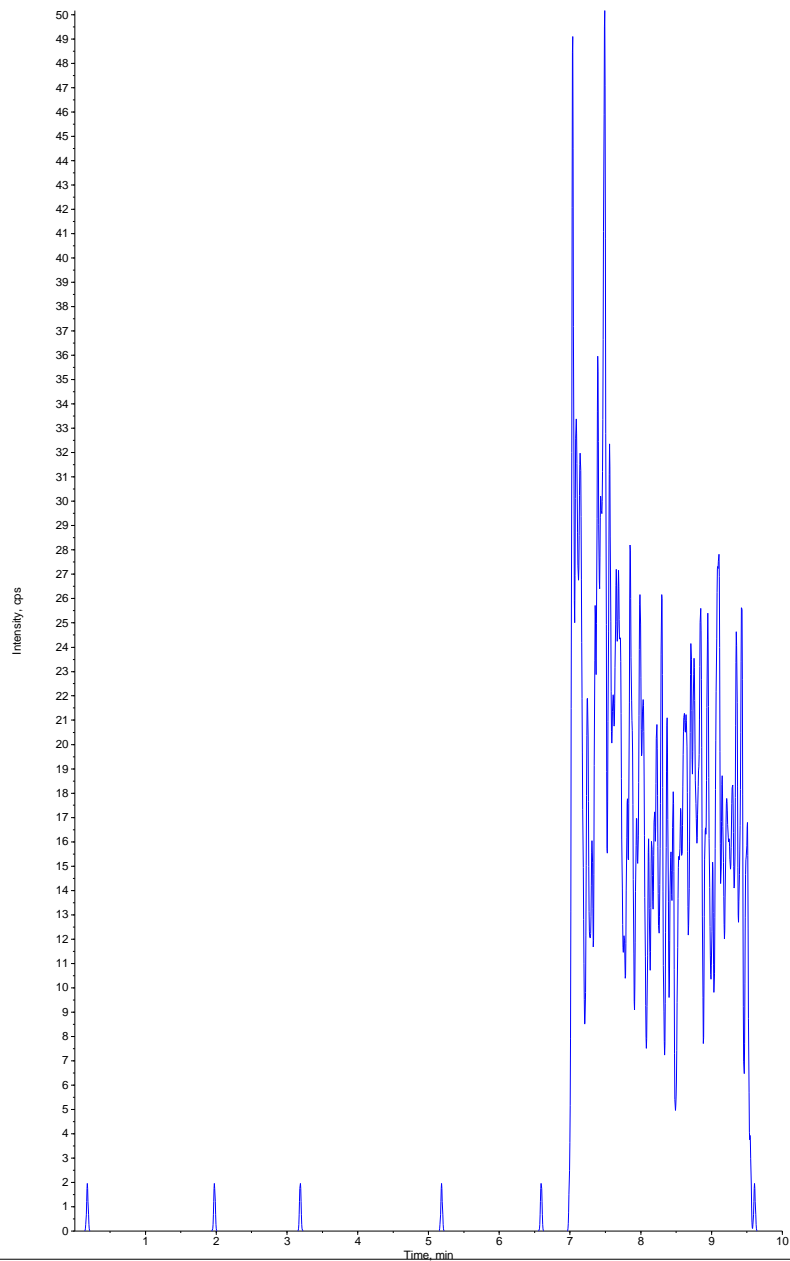


Sample Name: "blank04 is" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "" Annotation: ""
Sample Index: 20
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/12/2019
Acq. Time: 09:32:12 PM
Modified: No

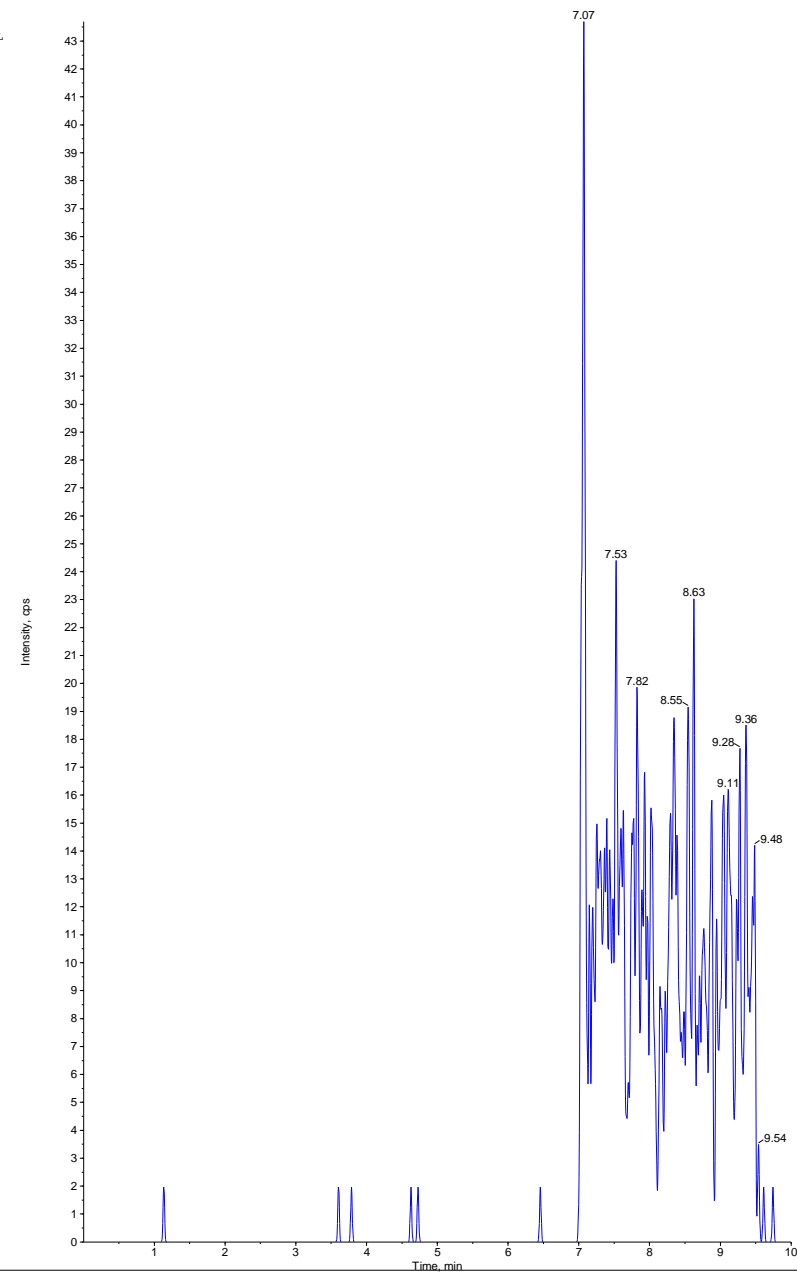


Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "blank04 is" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "" Annotation: ""
Sample Index: 20
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/12/2019
Acq. Time: 09:32:12 PM
Modified: Yes

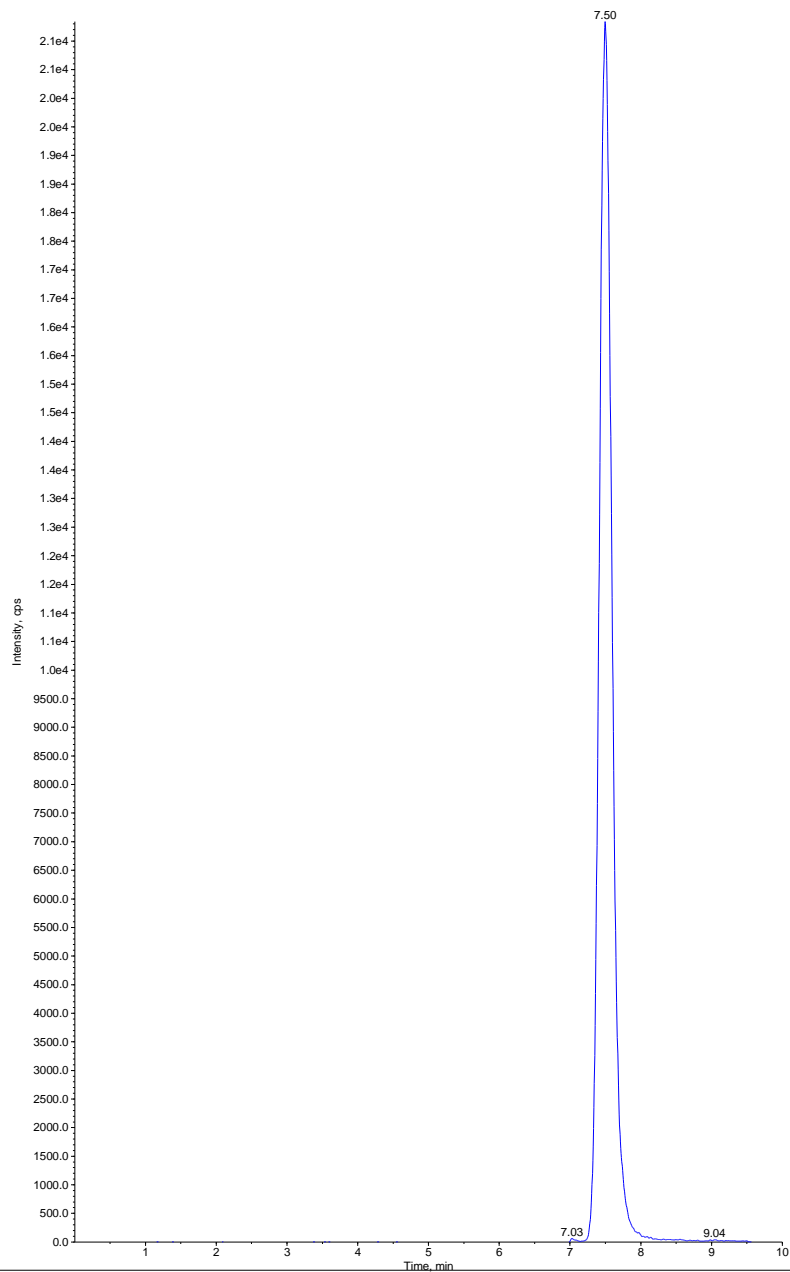


Sample Name: "blank04 is" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "" Annotation: ""
Sample Index: 20
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/12/2019
Acq. Time: 09:32:12 PM
Modified: Yes



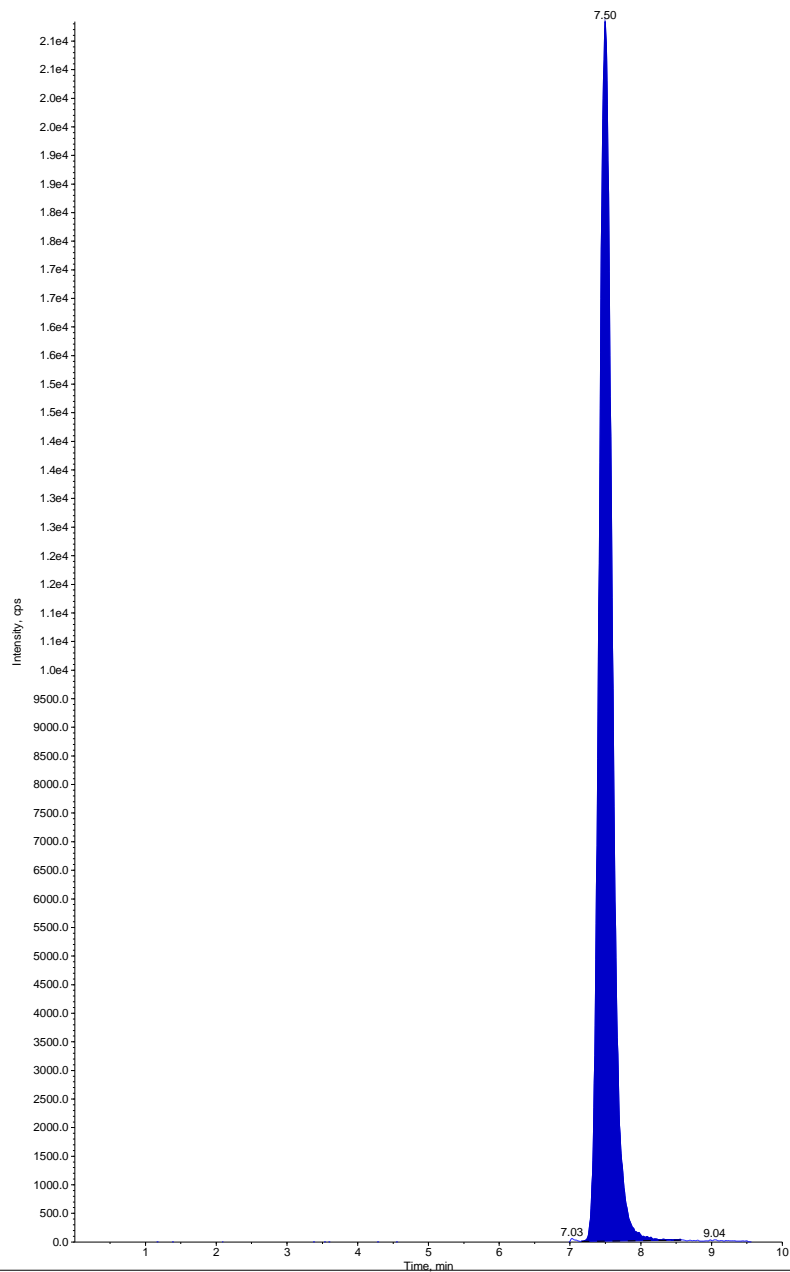
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "blank04 is" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""
Sample Index: 20
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 09:32:12 PM
Modified: No

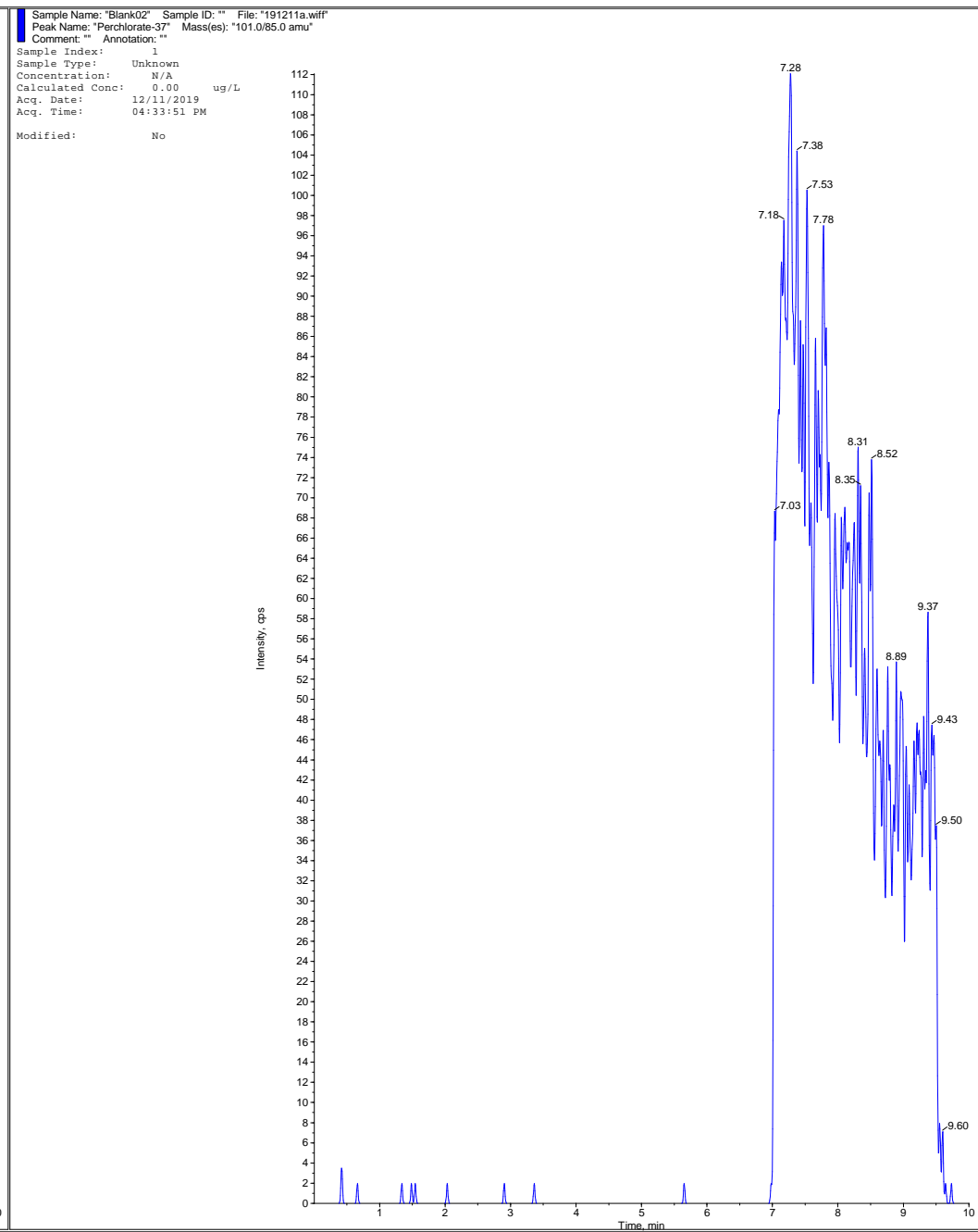
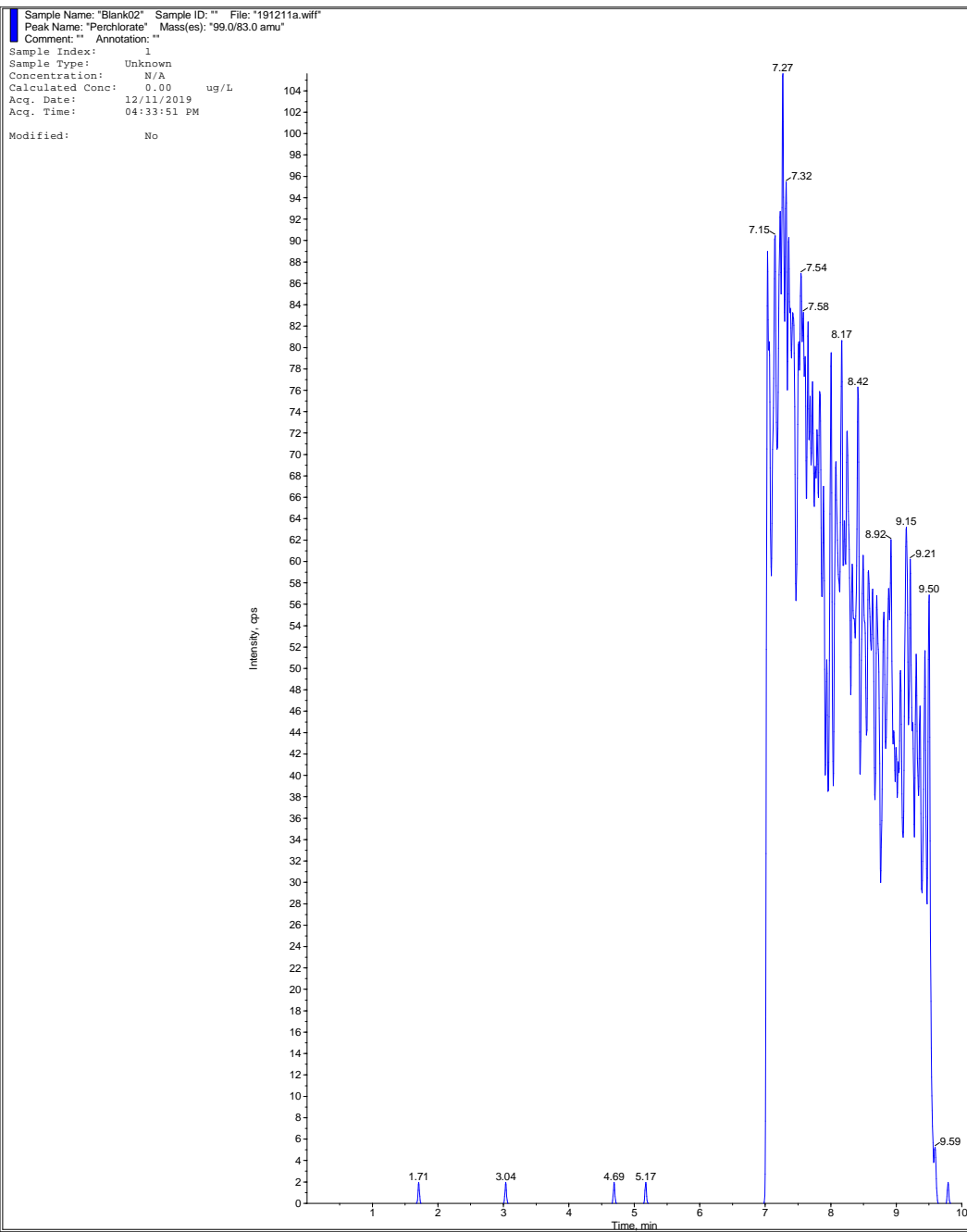


Collected by: N/A
Electronic Signature: no
Operator: Administrator

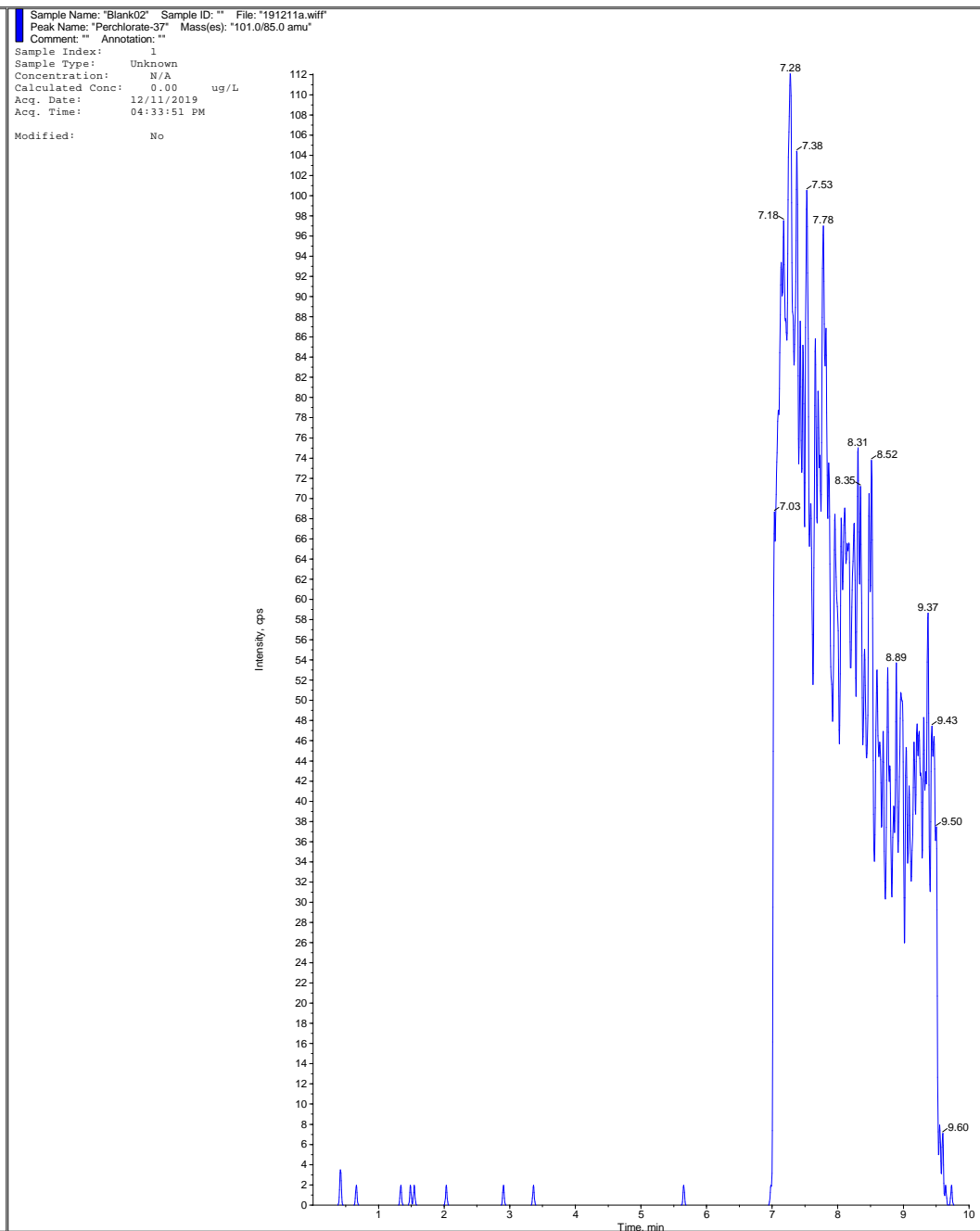
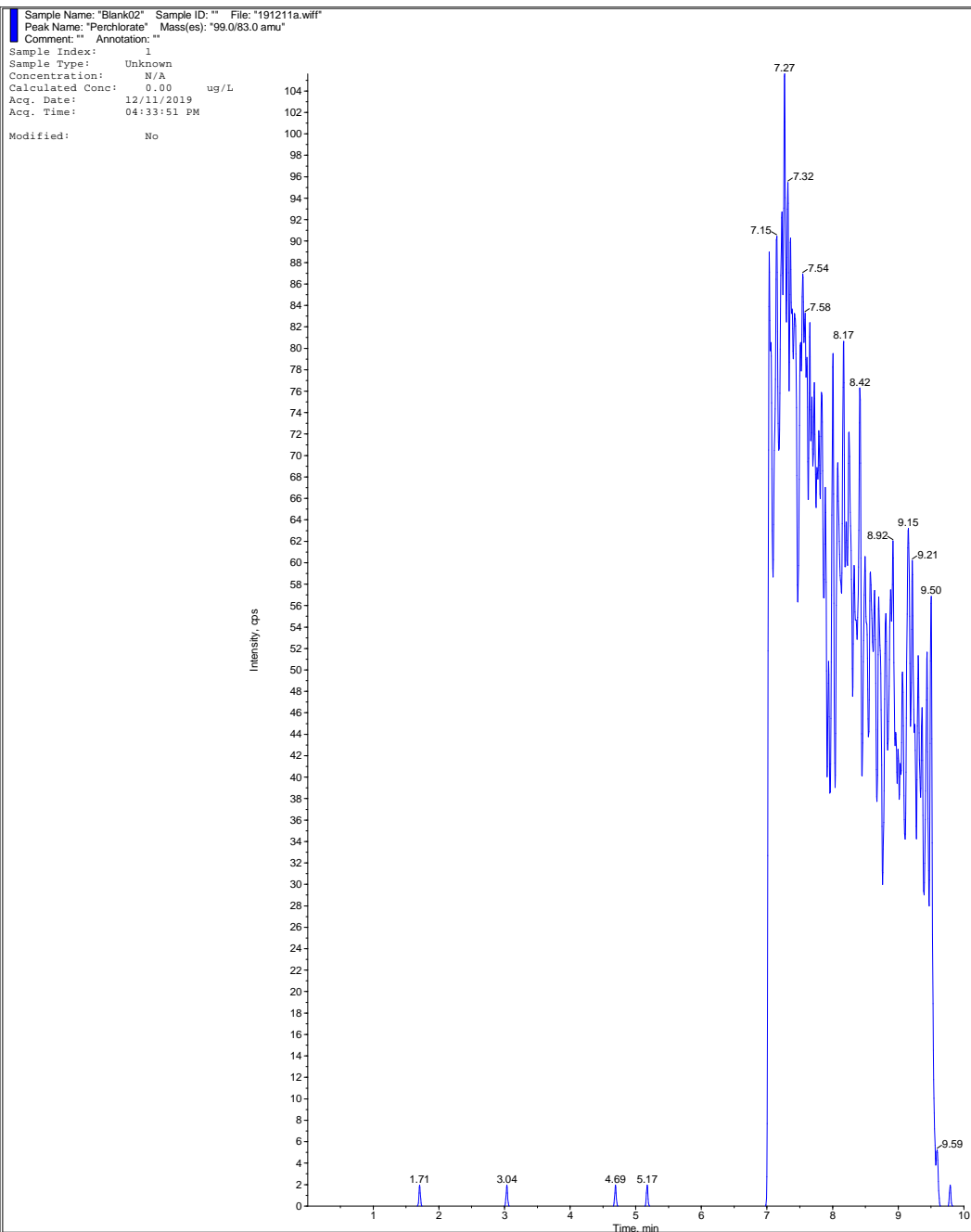
Sample Name: "blank04 is" Sample ID: "" File: "191212a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""
Sample Index: 20
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/12/2019
Acq. Time: 09:32:12 PM
Modified: Yes
RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No
Int. Type: Manual
Retention Time: 7.50 min
Area: 273000 counts
Height: 21300 cps
Start Time: 7.16 min
End Time: 8.57 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator

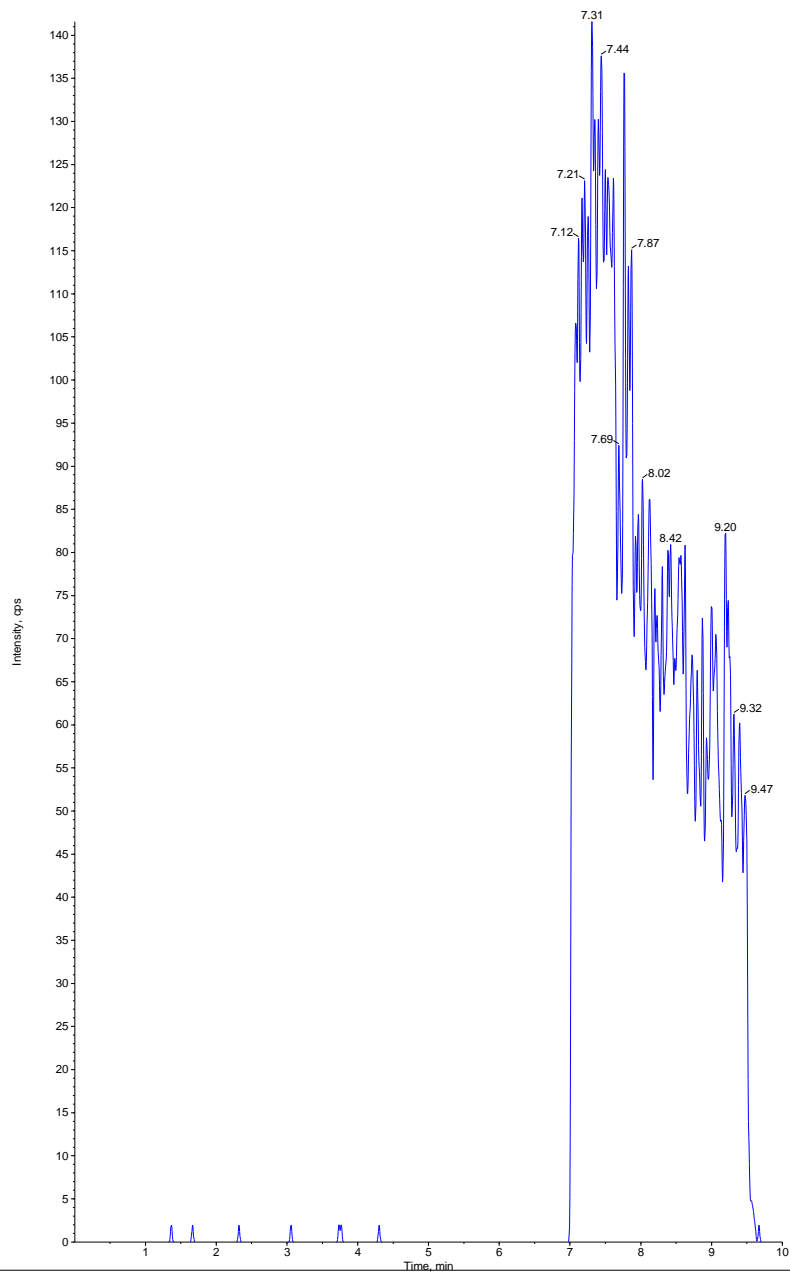


Collected by: N/A
Electronic Signature: no
Operator: Administrator



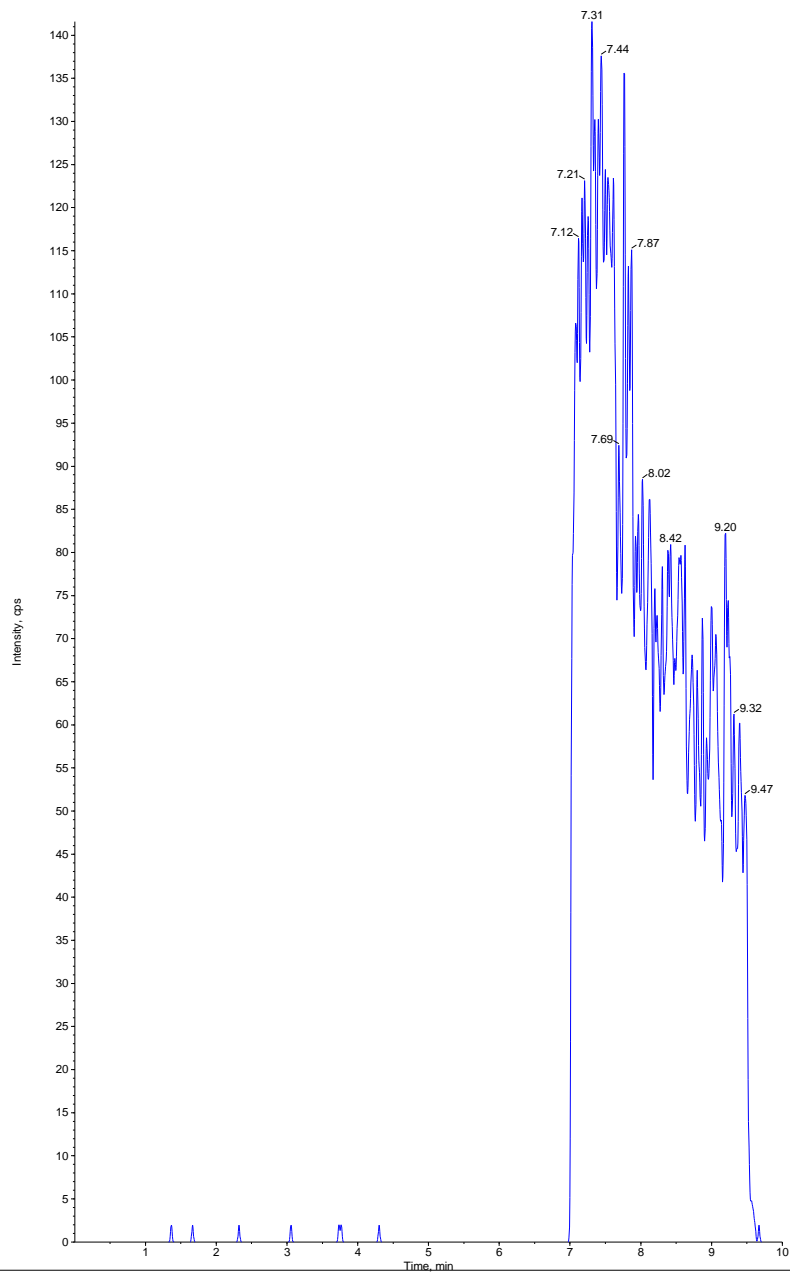
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "Blank02" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 04:33:51 PM
Modified: No



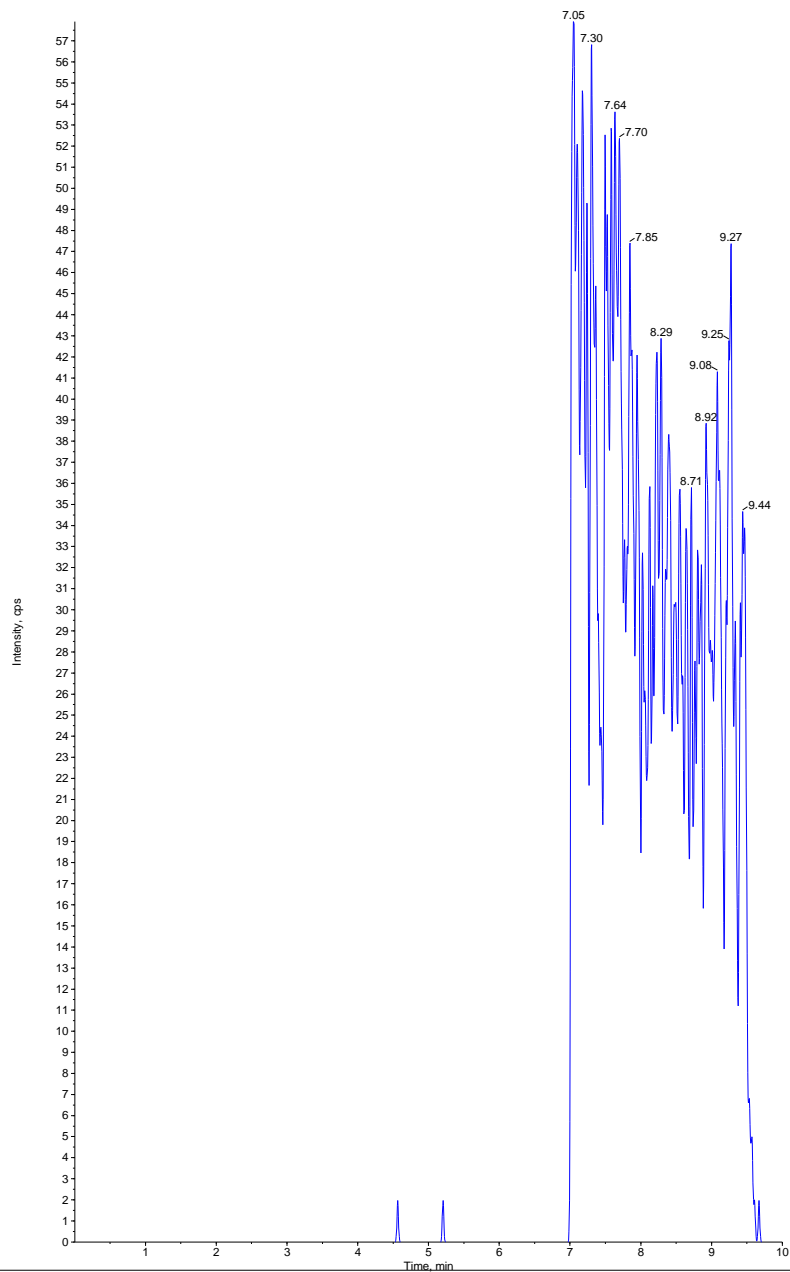
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "Blank02" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""
Sample Index: 1
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 04:33:51 PM
Modified: No



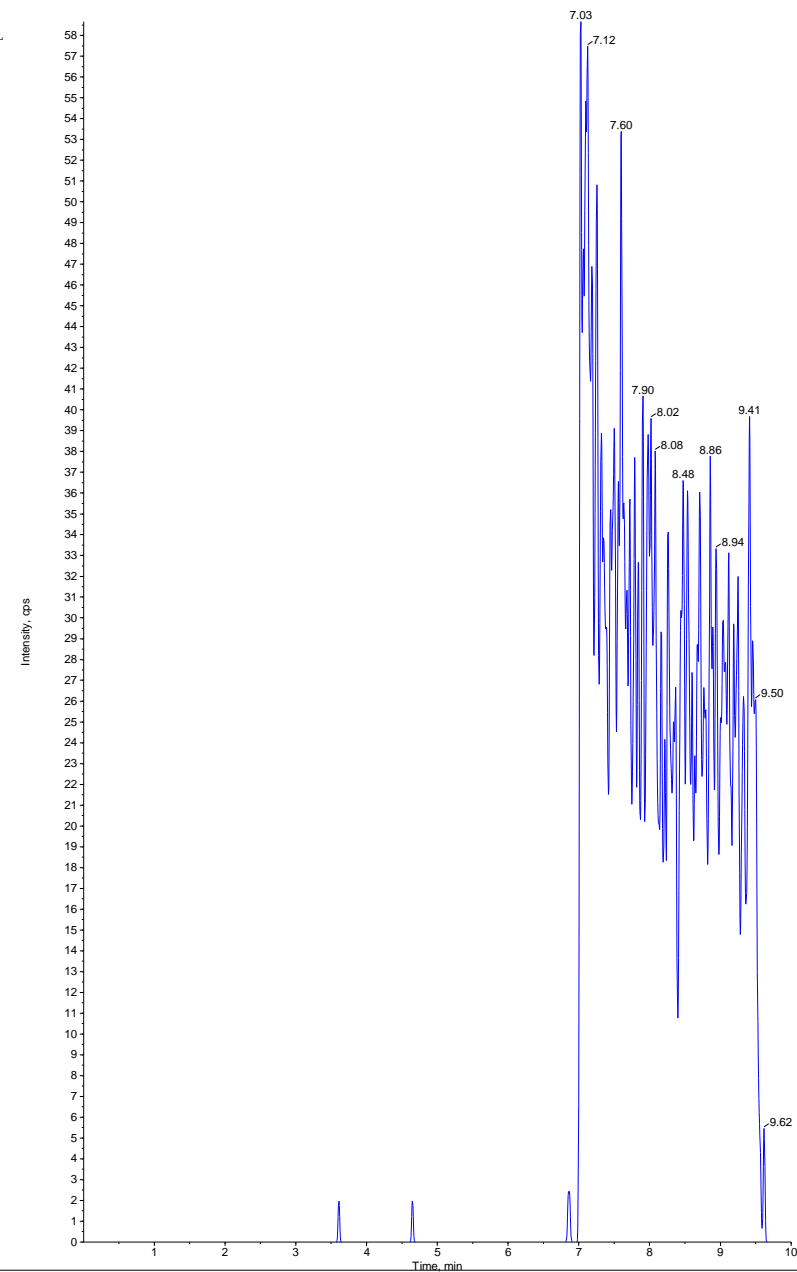
Collected by: N/A
Electronic Signature: no
Operator: Administrator

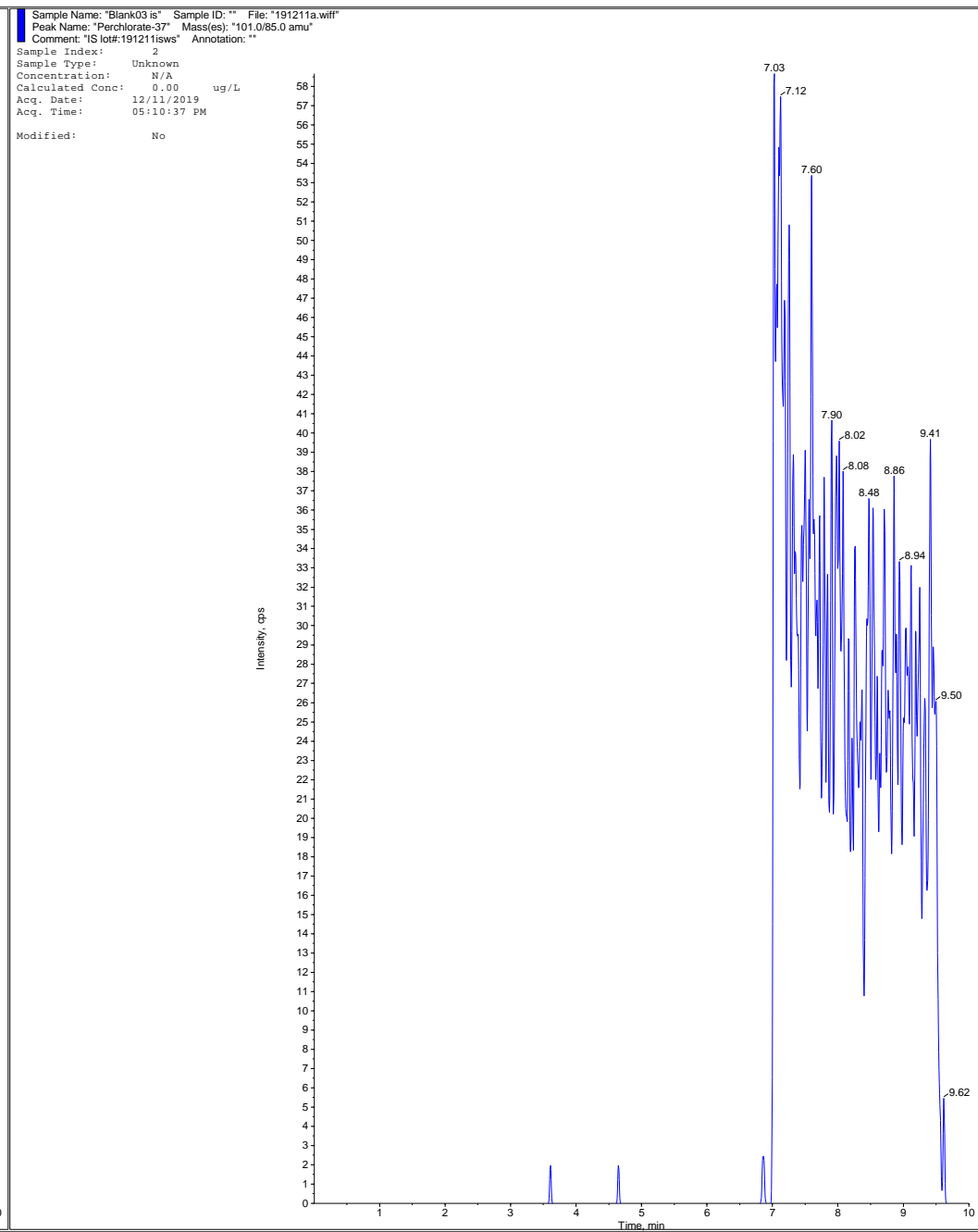
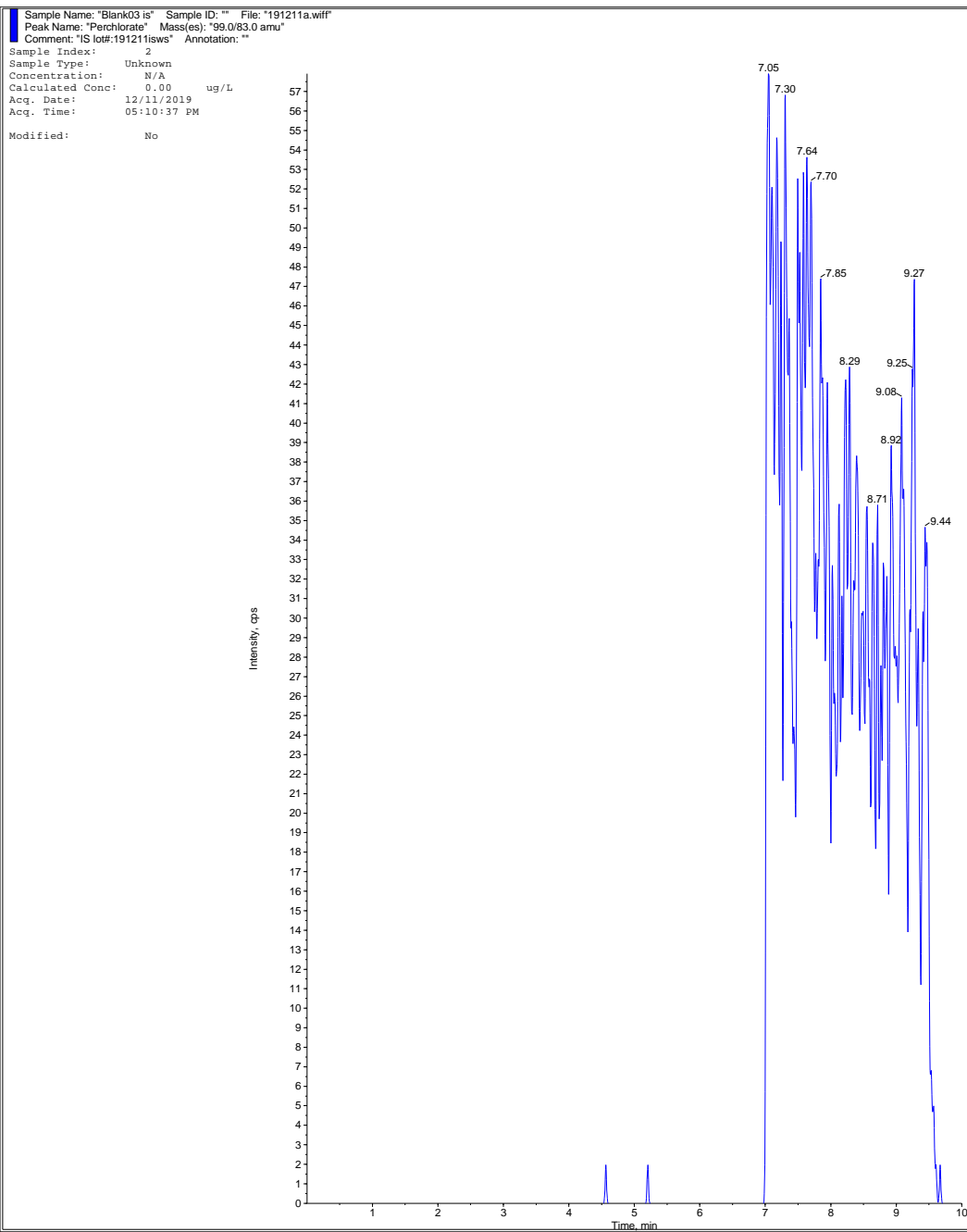
Sample Name: "Blank03 is" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "IS lot#:191211isws" Annotation: ""
Sample Index: 2
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/11/2019
Acq. Time: 05:10:37 PM
Modified: No



Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "Blank03 is" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "IS lot#:191211isws" Annotation: ""
Sample Index: 2
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/11/2019
Acq. Time: 05:10:37 PM
Modified: No





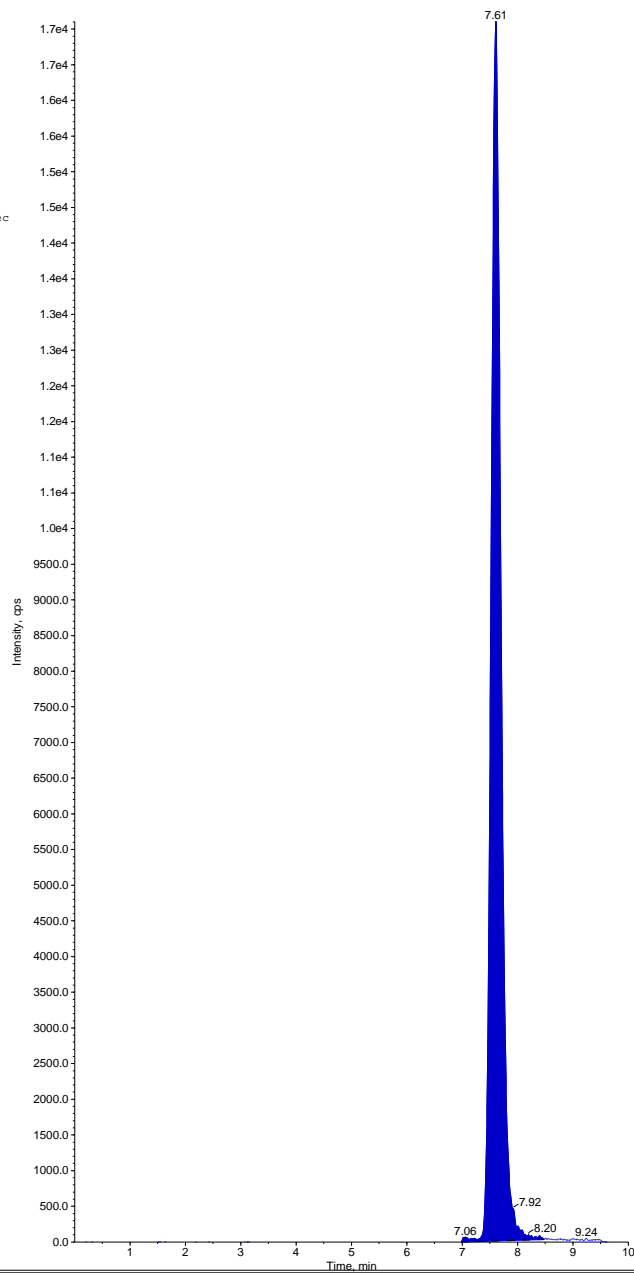
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'Blank03 Is' Sample ID: '' File: '191211a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: 'IS lot#:191211isws' Annotation: ''

Sample Index: 2
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 05:10:37 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.61 min
Area: 216000 counts
Height: 17100 cps
Start Time: 6.98 min
End Time: 8.48 min



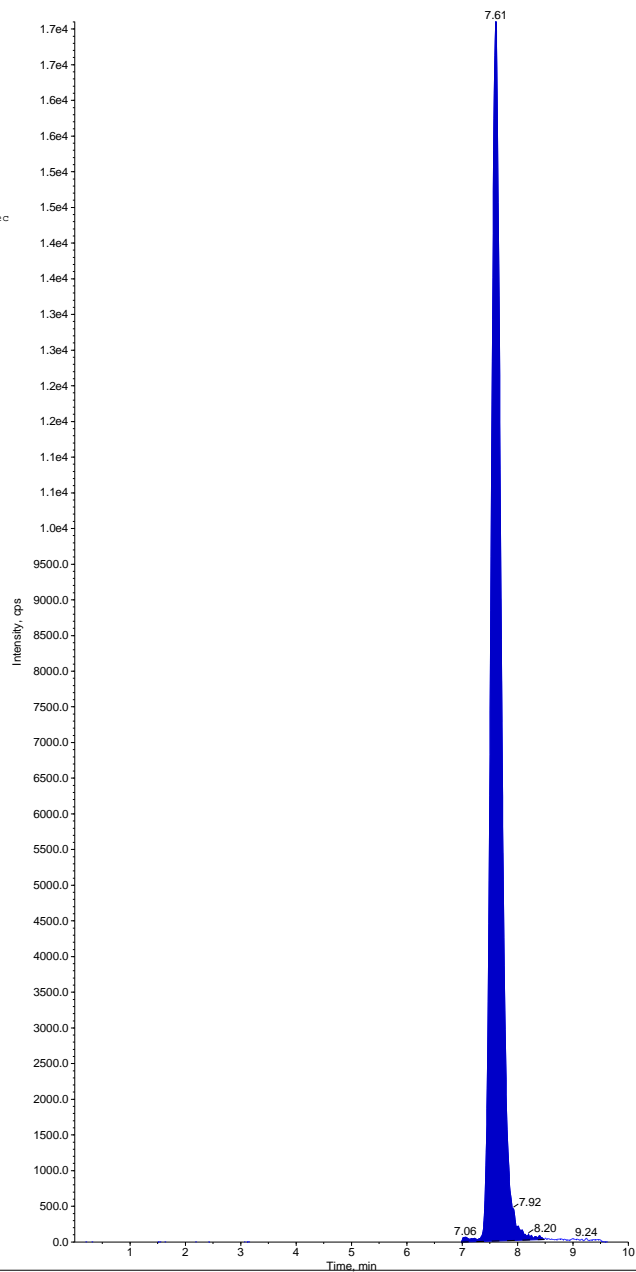
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'Blank03.is' Sample ID: '' File: '191211a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: 'IS lot#:191211isws' Annotation: ''

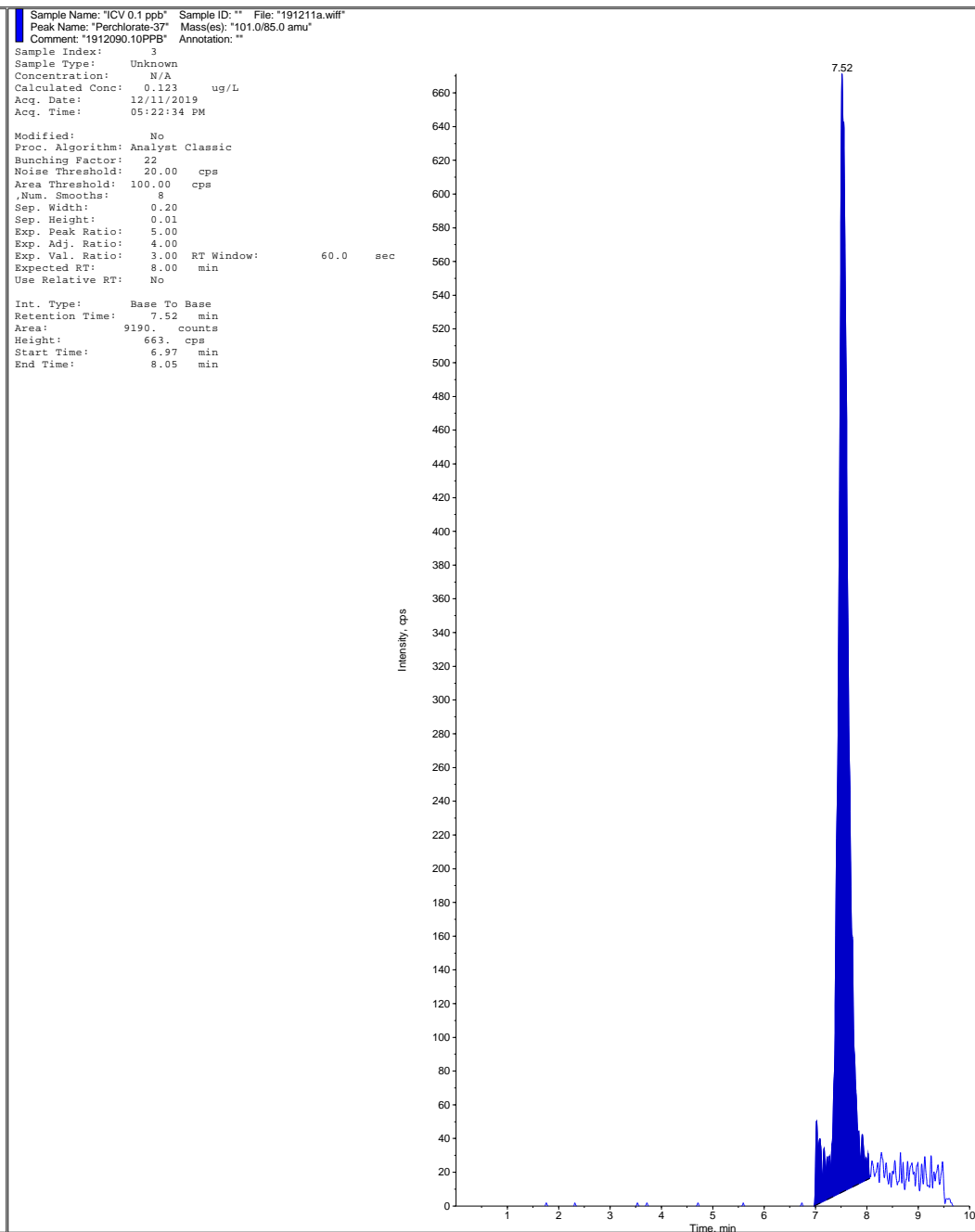
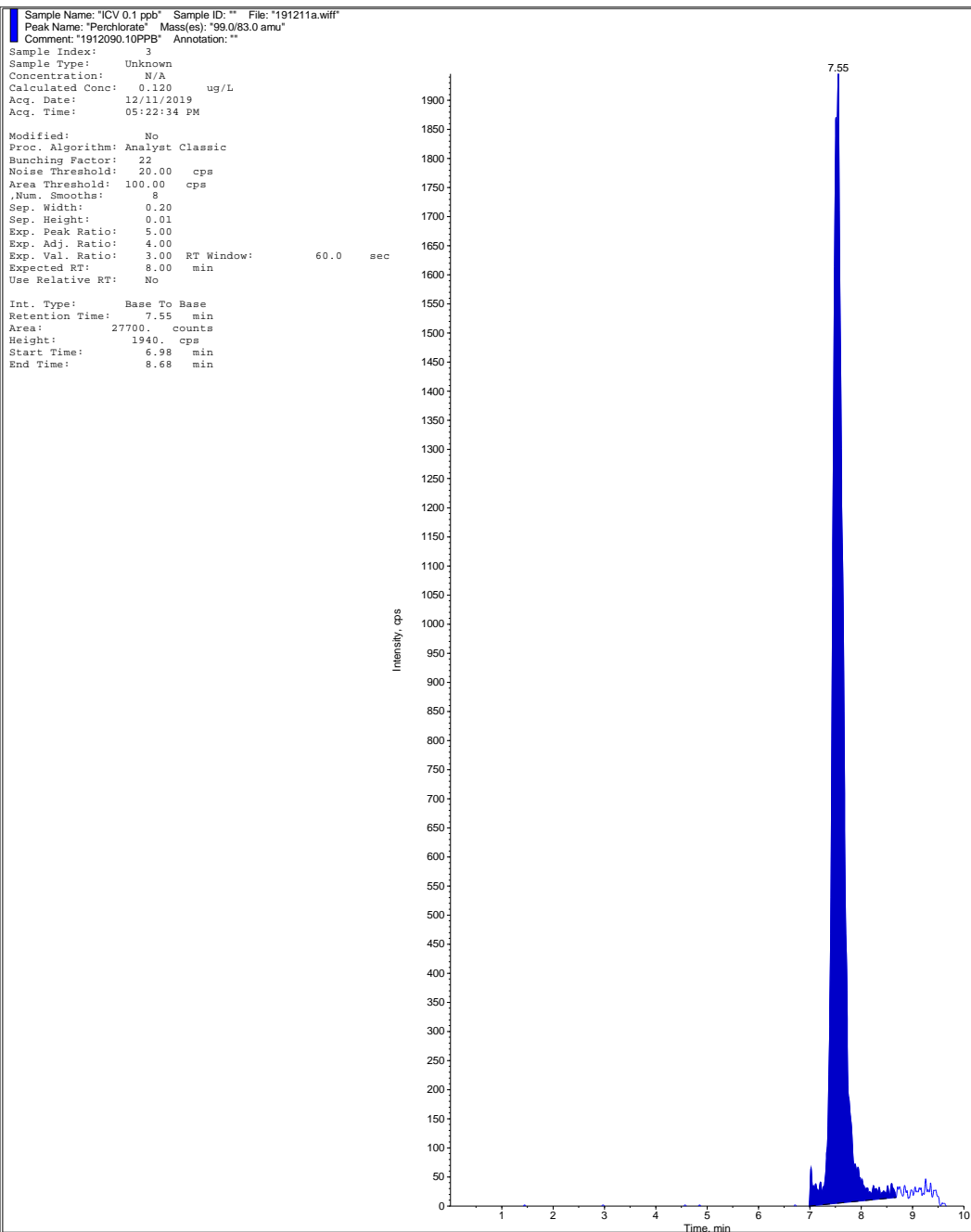
Sample Index: 2
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 05:10:37 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

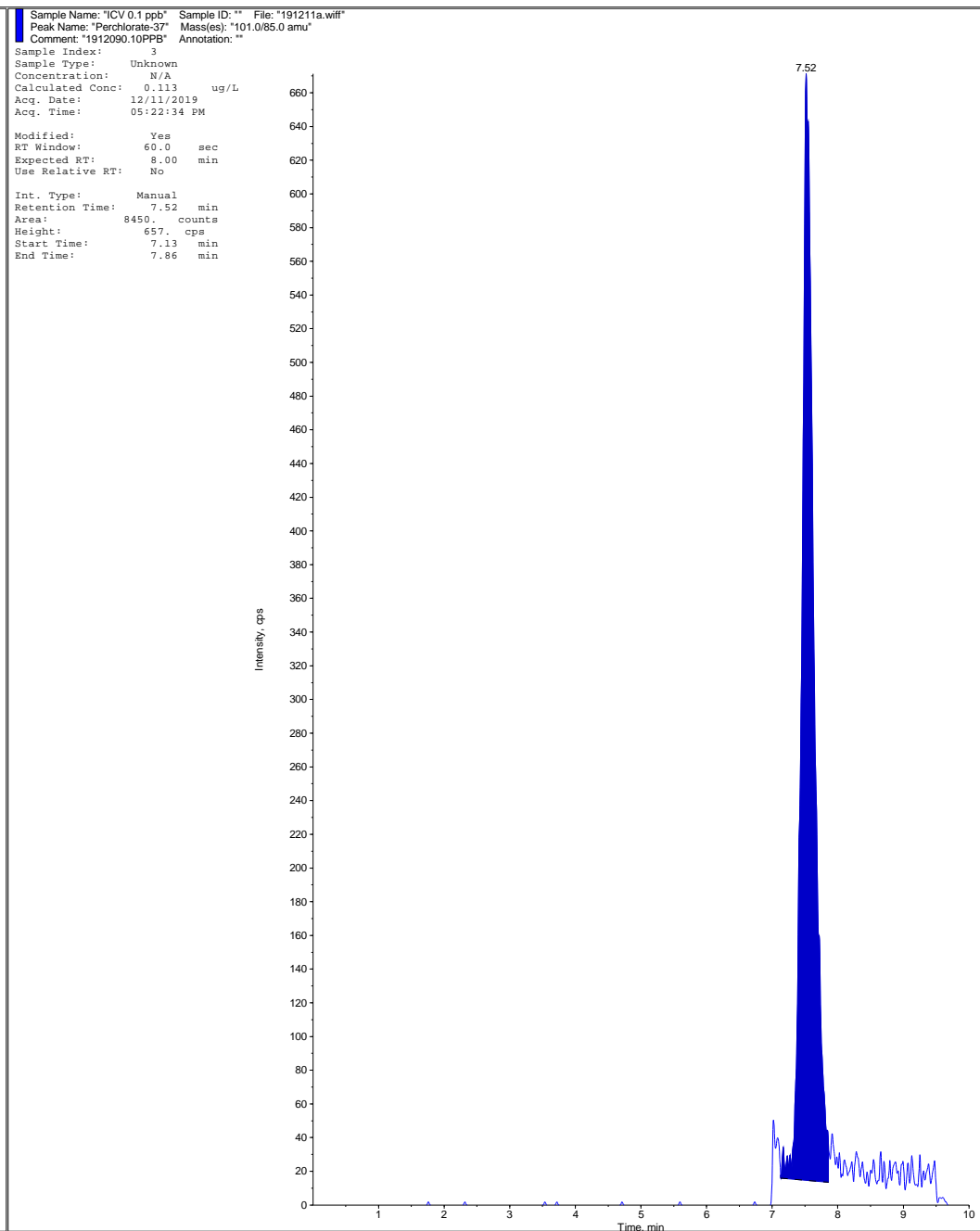
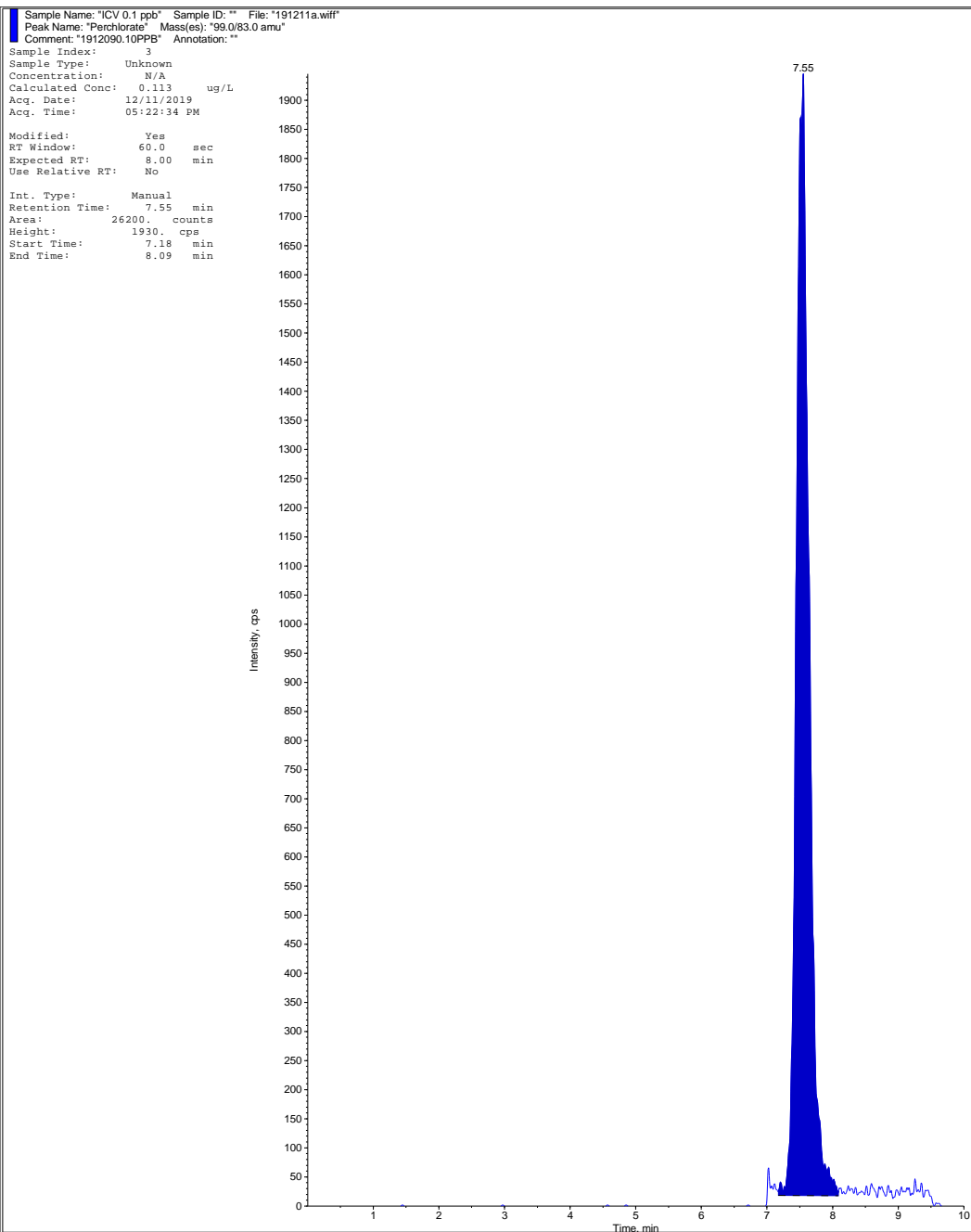
Int. Type: Base To Base
Retention Time: 7.61 min
Area: 216000 counts
Height: 17100 cps
Start Time: 6.98 min
End Time: 8.48 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator



Collected by: N/A
Electronic Signature: no
Operator: Administrator



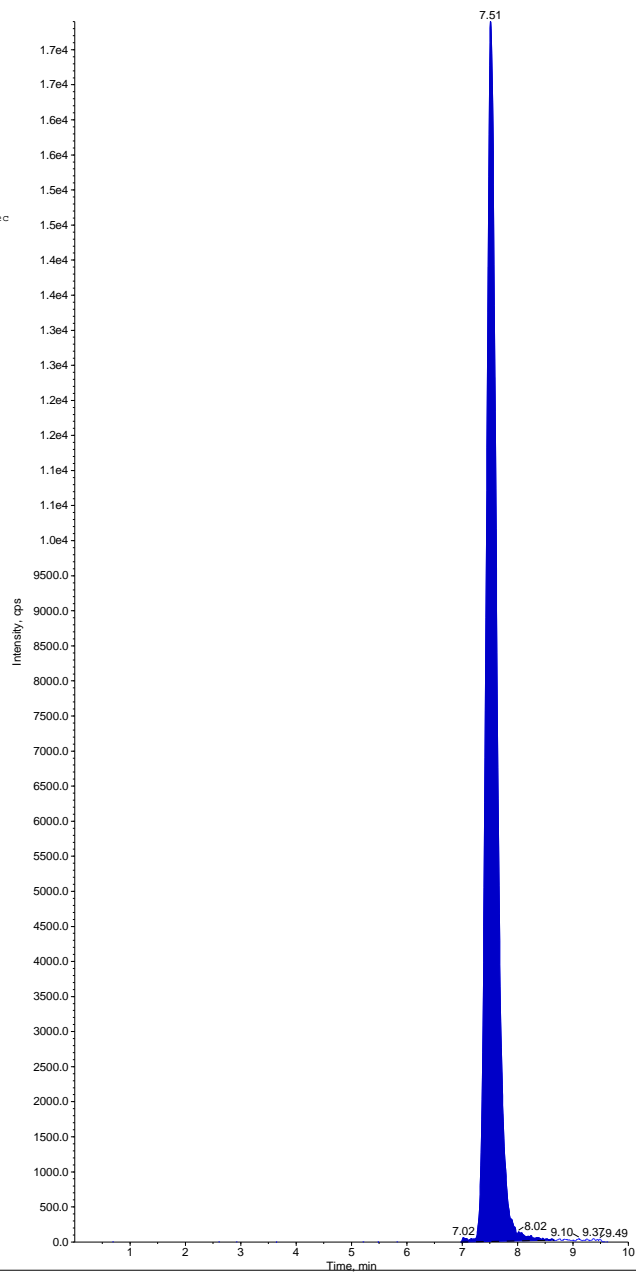
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'ICV 0.1 ppb' Sample ID: '' File: '191211a.wiff'
Peak Name: 'Perchlorate-O18(O)' Mass(es): '107.0/89.0 amu'
Comment: '1912090.10PPB' Annotation: ''

Sample Index: 3
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 05:22:34 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.51 min
Area: 230000 counts
Height: 17400 cps
Start Time: 6.97 min
End Time: 8.66 min



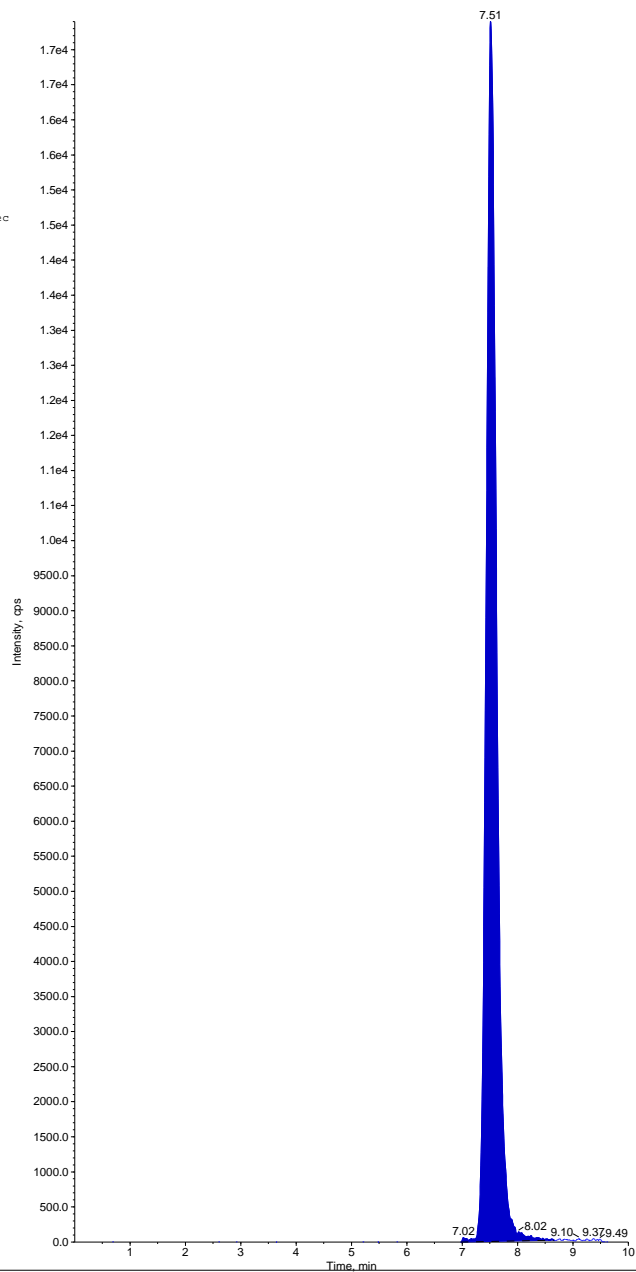
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'ICV 0.1 ppb' Sample ID: '' File: '191211a.wiff'
Peak Name: 'Perchlorate-O18(O)' Mass(es): '107.0/89.0 amu'
Comment: '1912090.10PPB' Annotation: ''

Sample Index: 3
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 05:22:34 PM

Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

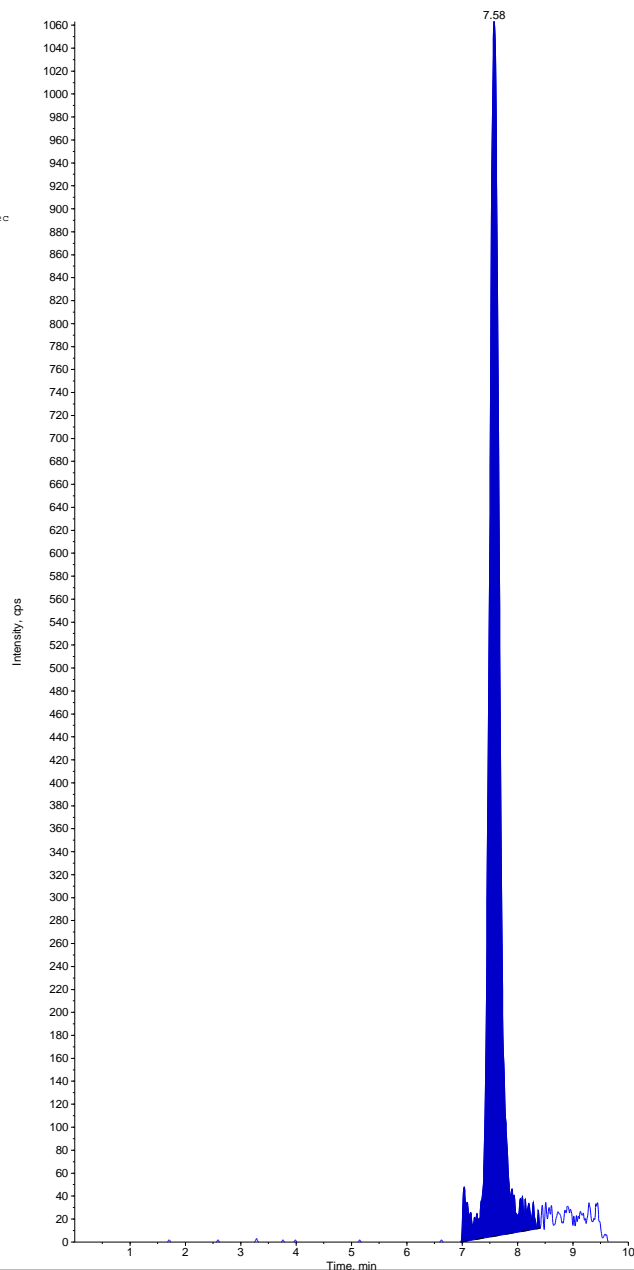
Int. Type: Base To Base
Retention Time: 7.51 min
Area: 230000 counts
Height: 17400 cps
Start Time: 6.97 min
End Time: 8.66 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator

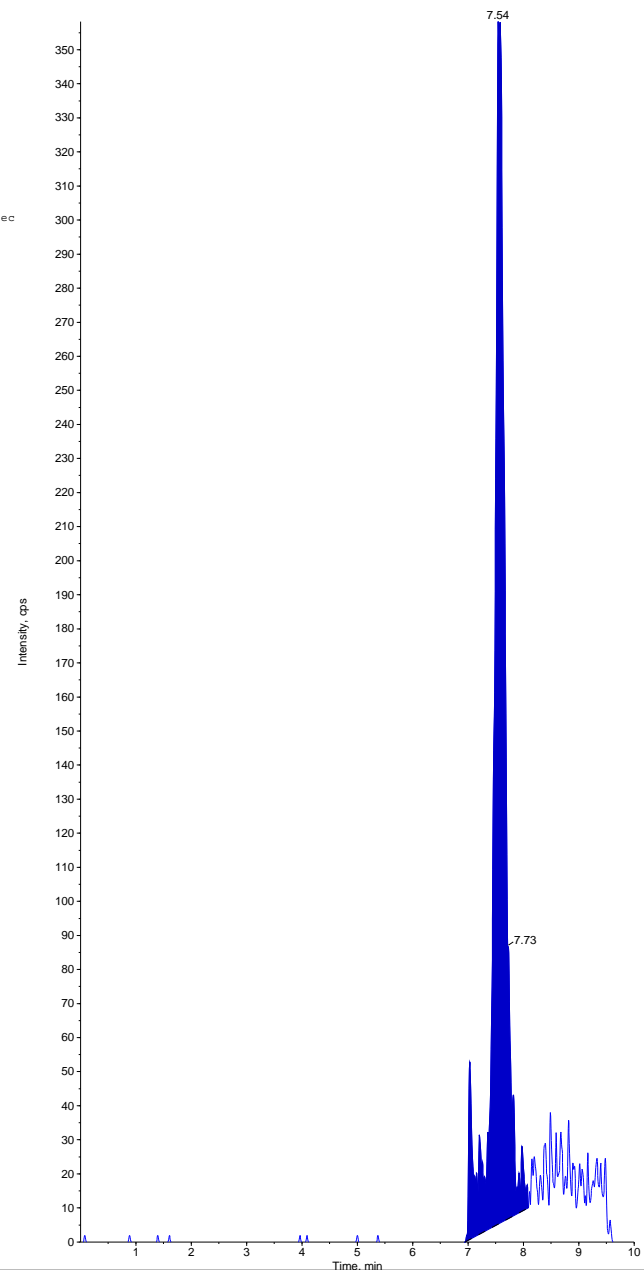
Sample Name: 'RL Check 0.05 ppb' Sample ID: '' File: '191211a.wiff'
Peak Name: 'Perchlorate' Mass(es): '99.0/83.0 amu'
Comment: '1912090.05PPB' Annotation: ''

Sample Index: 4
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.0622 ug/L
Acq. Date: 12/11/2019
Acq. Time: 05:34:32 PM
Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 22
Noise Threshold: 20.00 cps
Area Threshold: 100.00 cps
,Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No
Int. Type: Base To Base
Retention Time: 7.58 min
Area: 14400 counts
Height: 1060 cps
Start Time: 6.97 min
End Time: 8.40 min

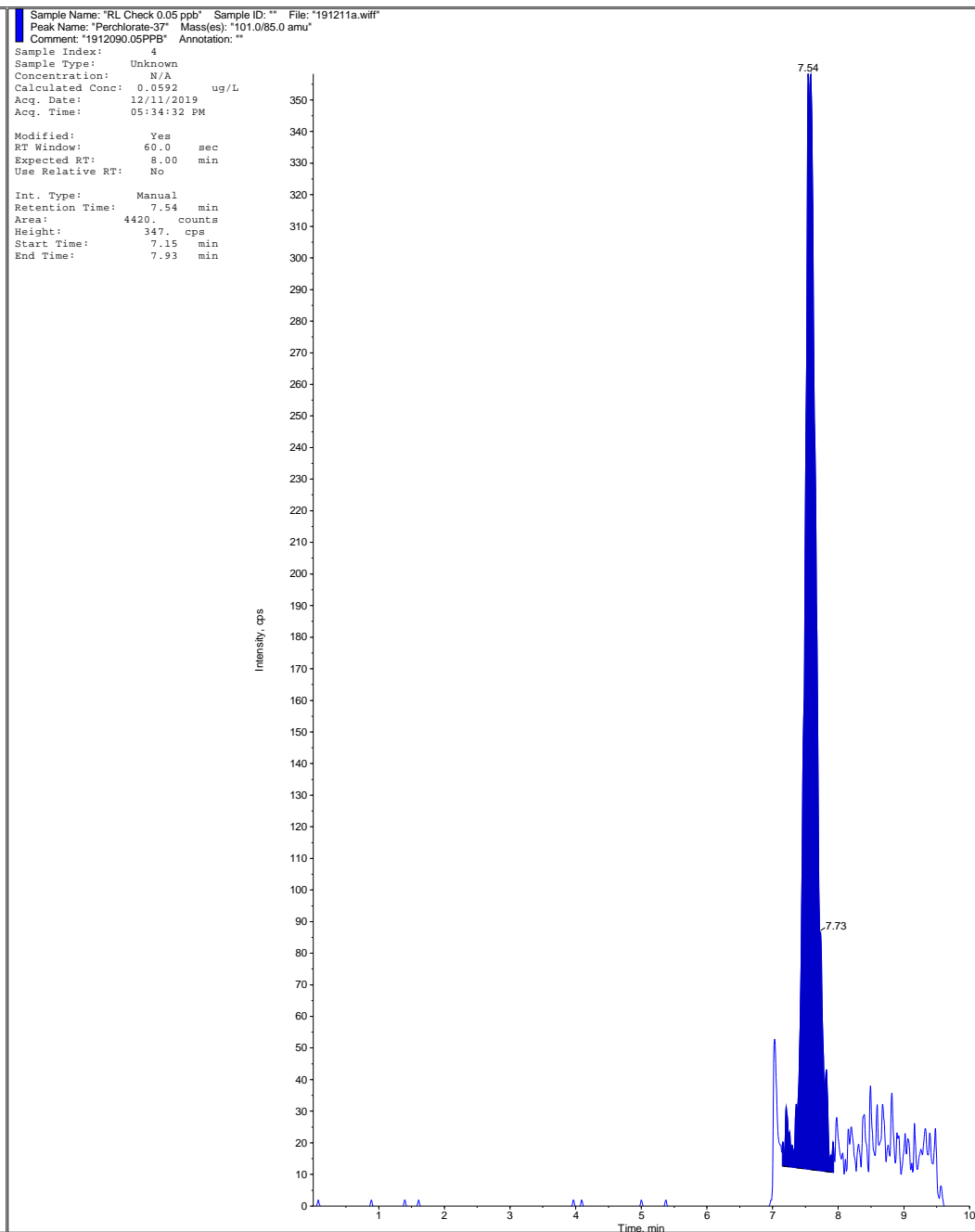
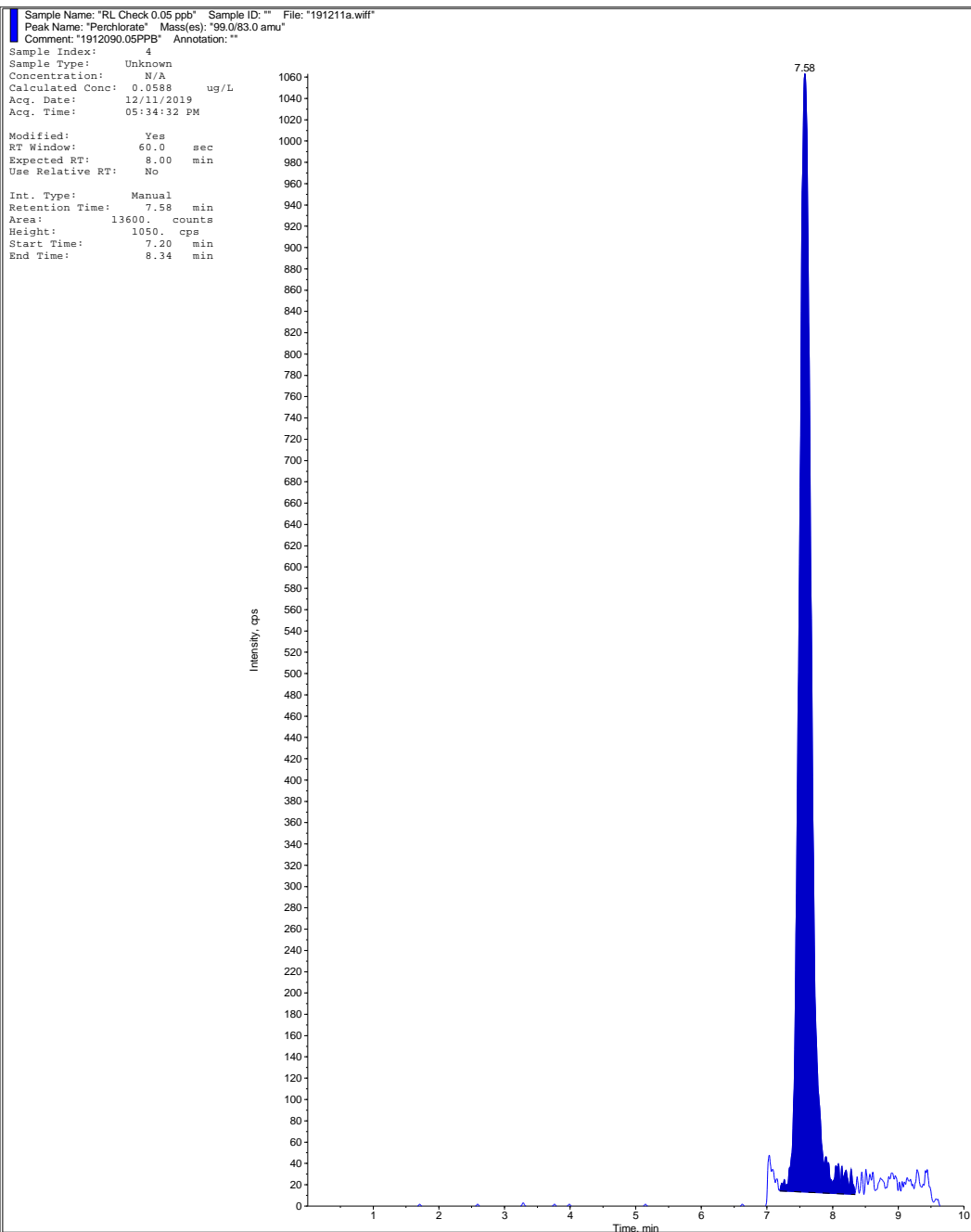


Sample Name: 'RL Check 0.05 ppb' Sample ID: '' File: '191211a.wiff'
Peak Name: 'Perchlorate-37' Mass(es): '101.0/85.0 amu'
Comment: '1912090.05PPB' Annotation: ''

Sample Index: 4
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.0681 ug/L
Acq. Date: 12/11/2019
Acq. Time: 05:34:32 PM
Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 22
Noise Threshold: 20.00 cps
Area Threshold: 100.00 cps
,Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No
Int. Type: Base To Base
Retention Time: 7.54 min
Area: 5060 counts
Height: 353 cps
Start Time: 6.94 min
End Time: 8.09 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator



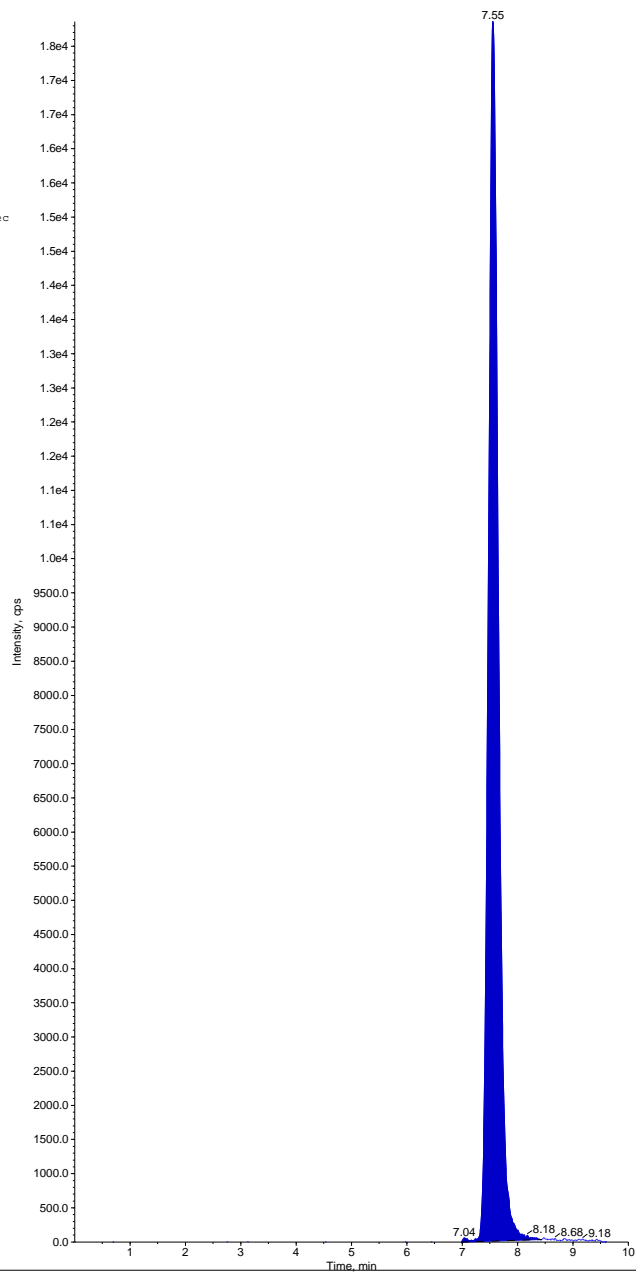
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'RL Check 0.05 ppb' Sample ID: '' File: '191211a.wiff'
Peak Name: 'Perchlorate-019(C)' Mass(es): '107.089.0 amu'
Comment: '1912090.05PPB' Annotation: ''

Sample Index: 4
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 05:34:32 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smooths: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.55 min
Area: 226000 counts
Height: 17900 cps
Start Time: 6.98 min
End Time: 8.44 min



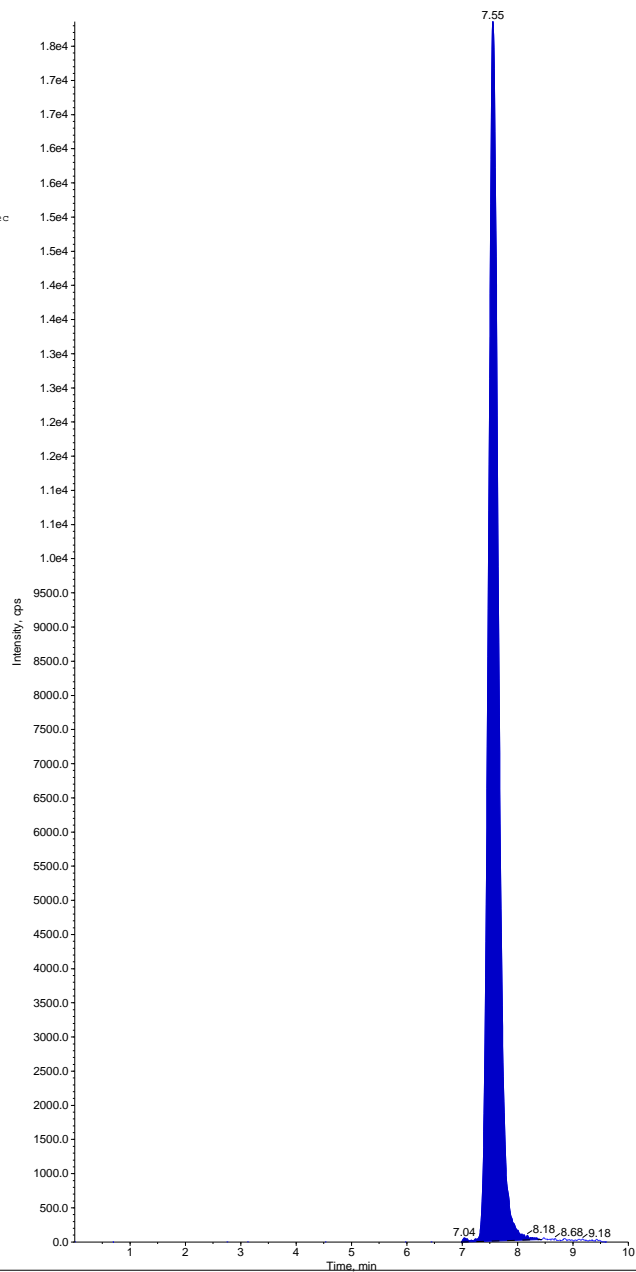
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'RL Check 0.05 ppb' Sample ID: '' File: '191211a.wiff'
Peak Name: 'Perchlorate-019(C)' Mass(es): '107.089.0 amu'
Comment: '1912090.05PPB' Annotation: ''

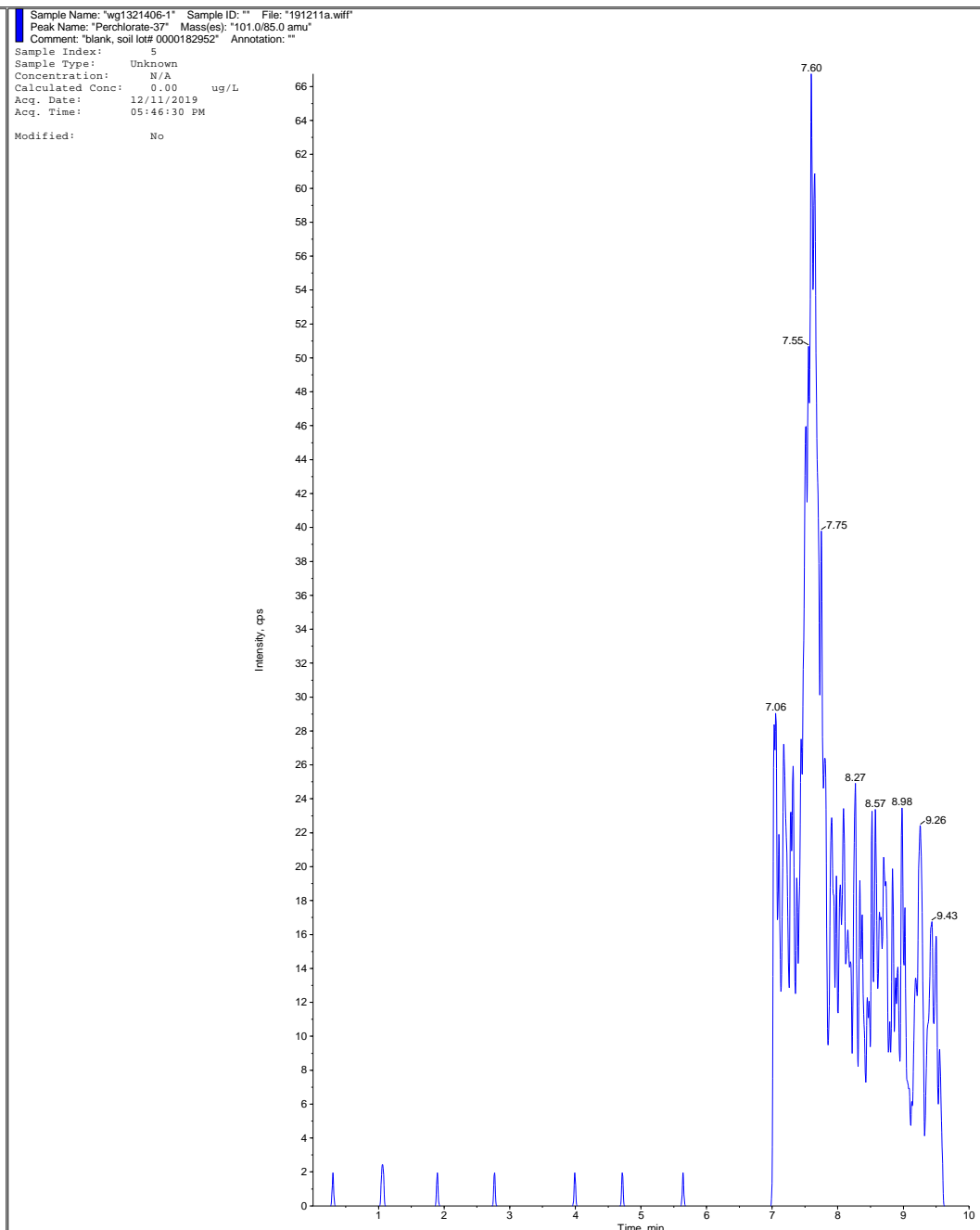
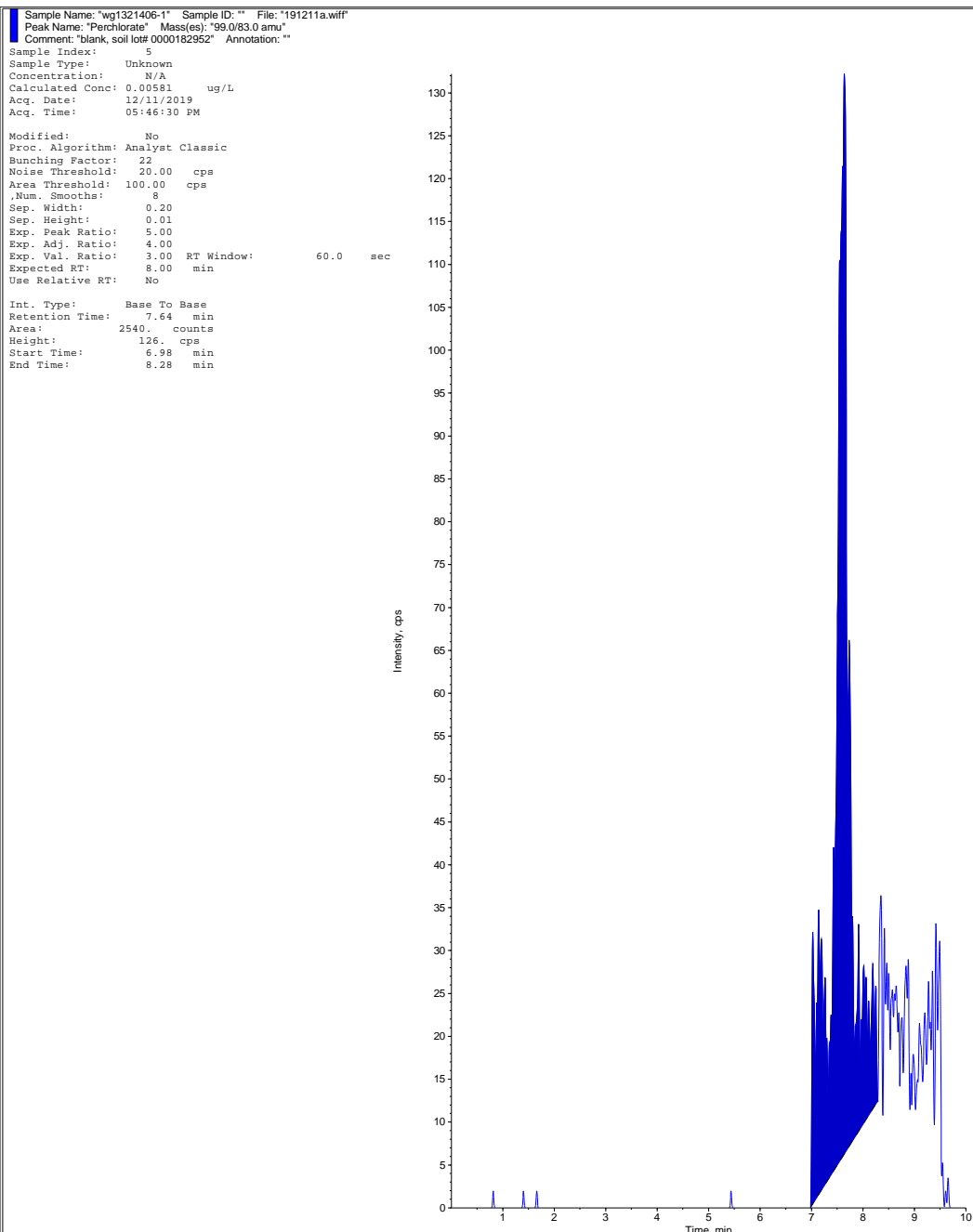
Sample Index: 4
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 05:34:32 PM

Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.55 min
Area: 226000 counts
Height: 17900 cps
Start Time: 6.98 min
End Time: 8.44 min

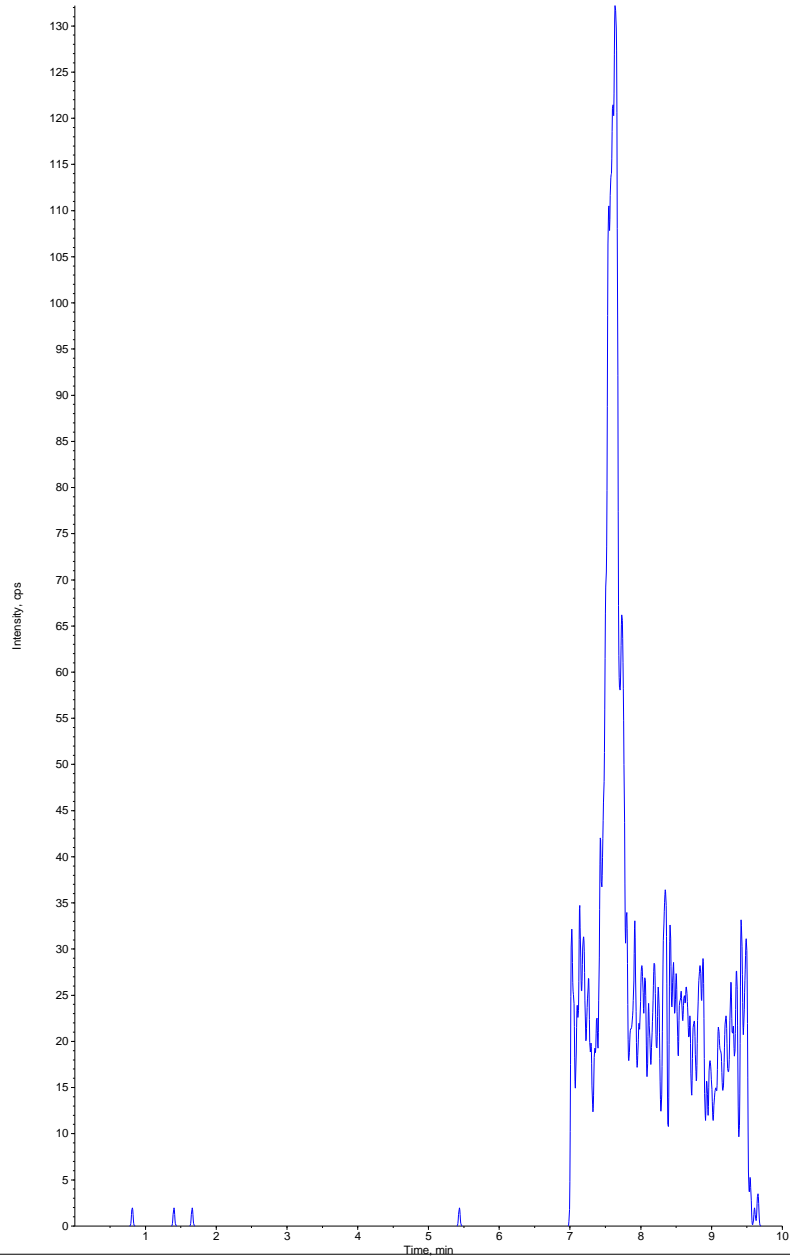


Collected by: N/A
Electronic Signature: no
Operator: Administrator

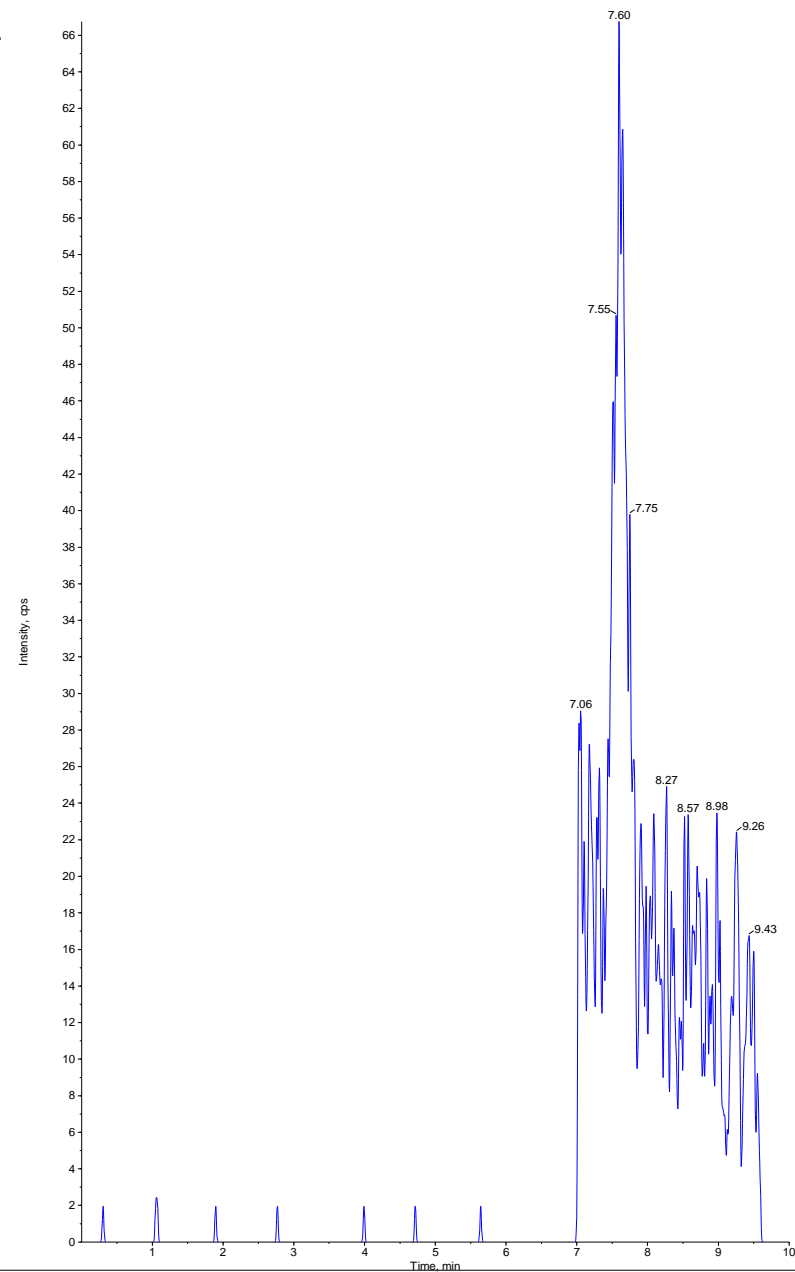


Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "wg1321406-1" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "blank, soil lot# 0000182952" Annotation: ""
Sample Index: 5
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/11/2019
Acq. Time: 05:46:30 PM
Modified: Yes



Sample Name: "wg1321406-1" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "blank, soil lot# 0000182952" Annotation: ""
Sample Index: 5
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/11/2019
Acq. Time: 05:46:30 PM
Modified: Yes



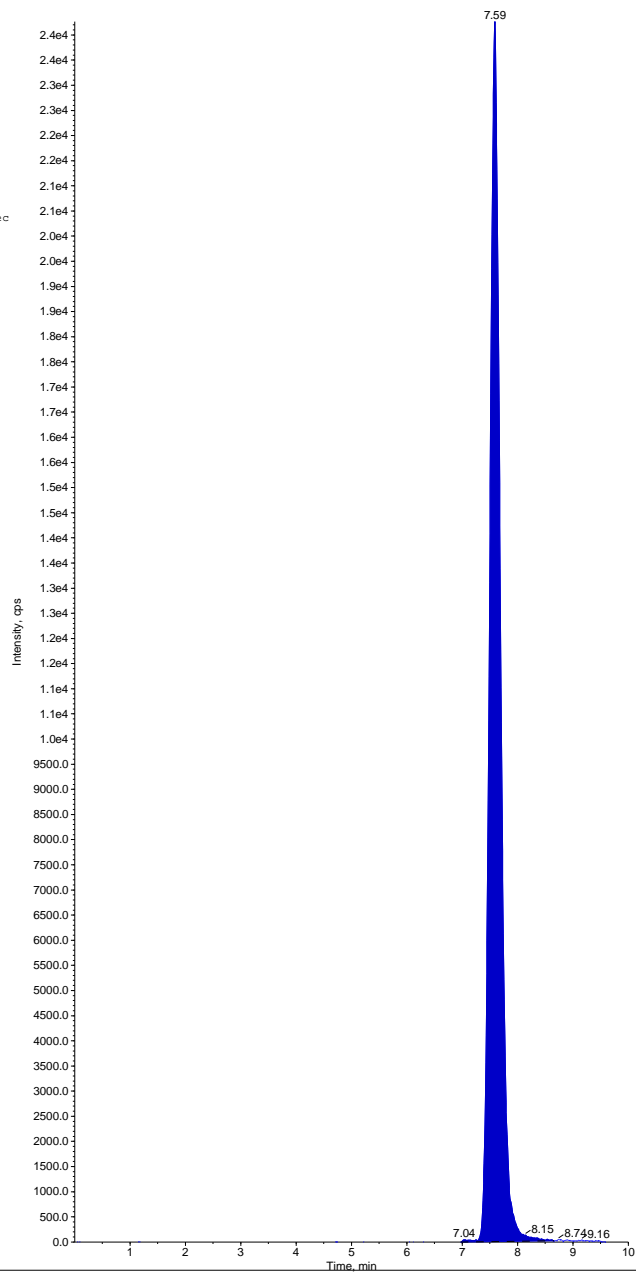
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'wg1321406-1' Sample ID: '' File: '191211a.wiff'
Peak Name: 'Perchlorate-O18(9)' Mass(es): '107.089.0 amu'
Comment: 'blank, soil lot# 0000182952' Annotation: ''

Sample Index: 5
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 05:46:30 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smooths: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.59 min
Area: 325000 counts
Height: 24300 cps
Start Time: 6.97 min
End Time: 8.66 min



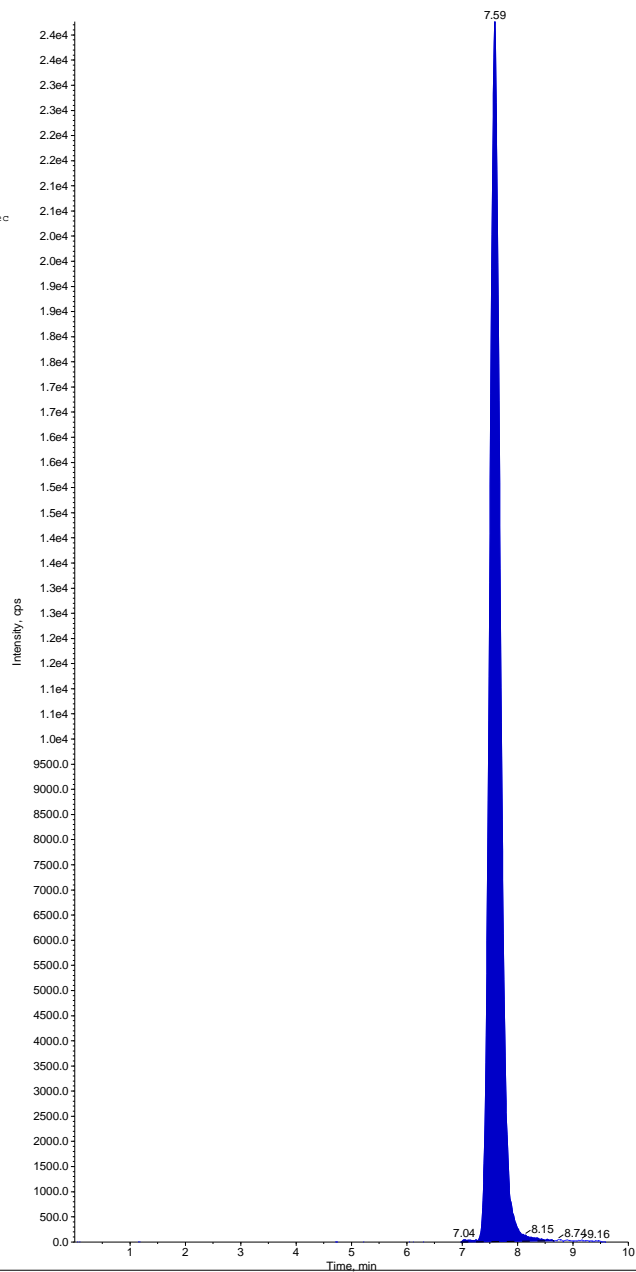
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'wg1321406-1' Sample ID: '' File: '191211a.wiff'
Peak Name: 'Perchlorate-O18(3)' Mass(es): '107.089.0 amu'
Comment: 'blank, soil lot# 0000182952' Annotation: ''

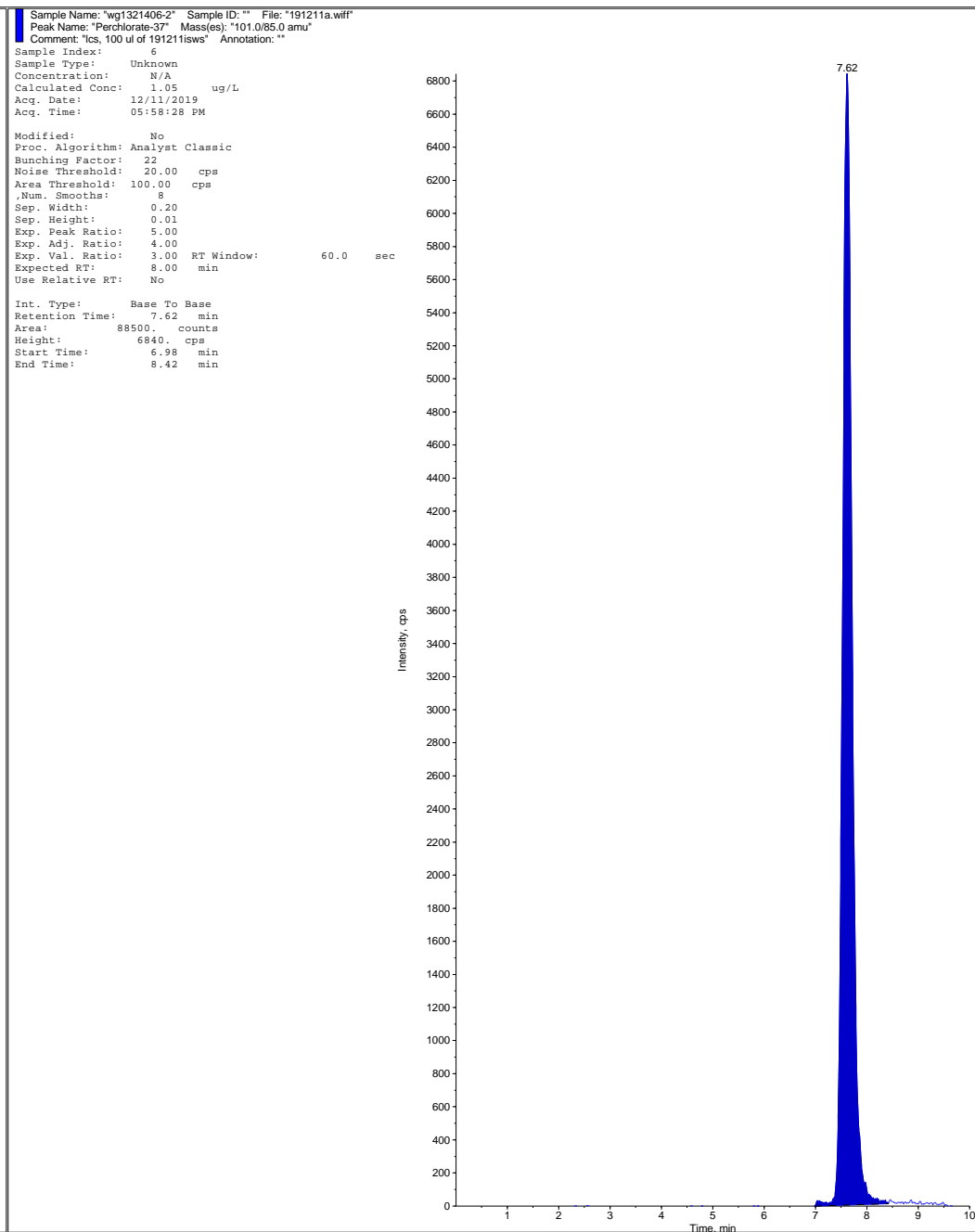
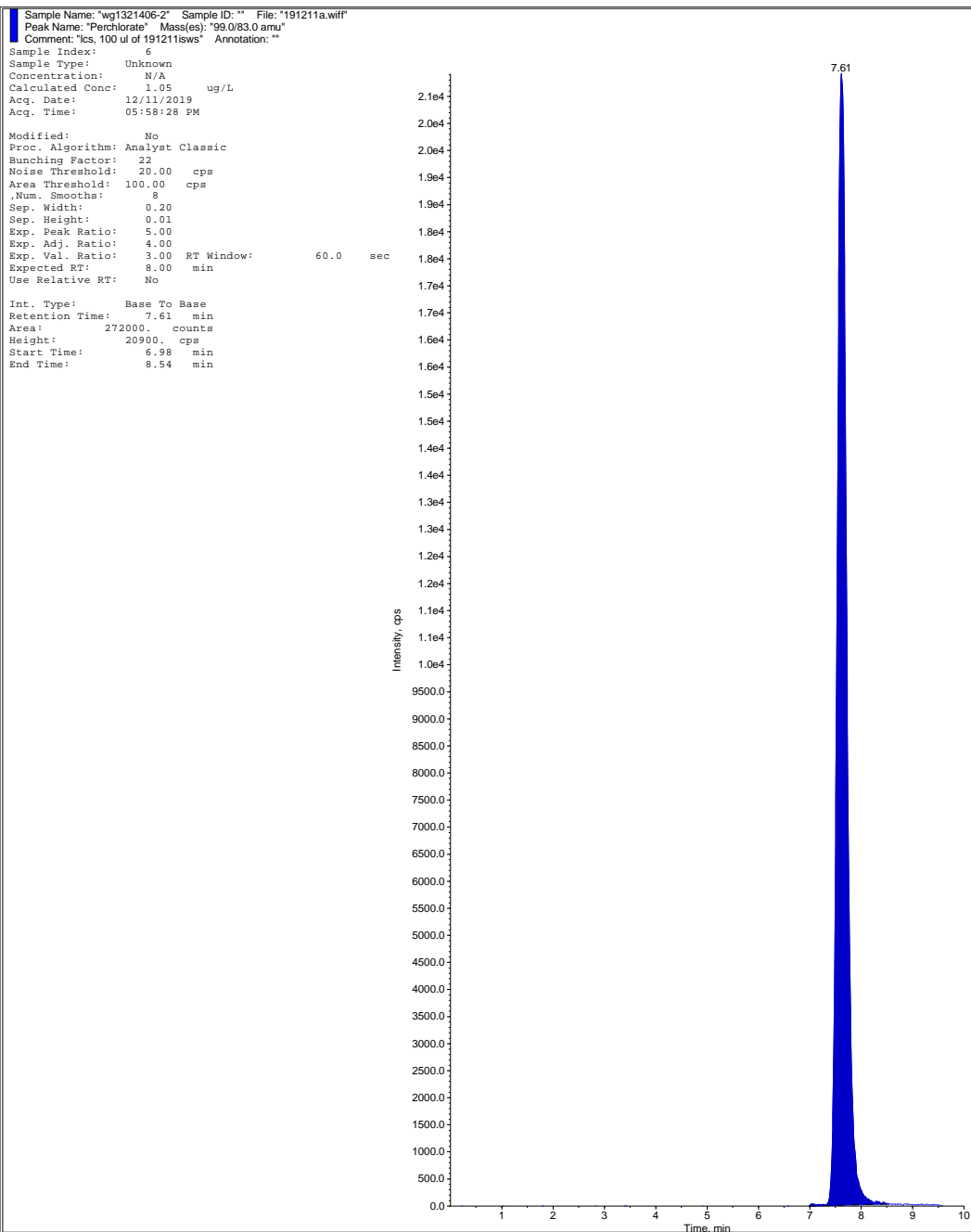
Sample Index: 5
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 05:46:30 PM

Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smooths: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

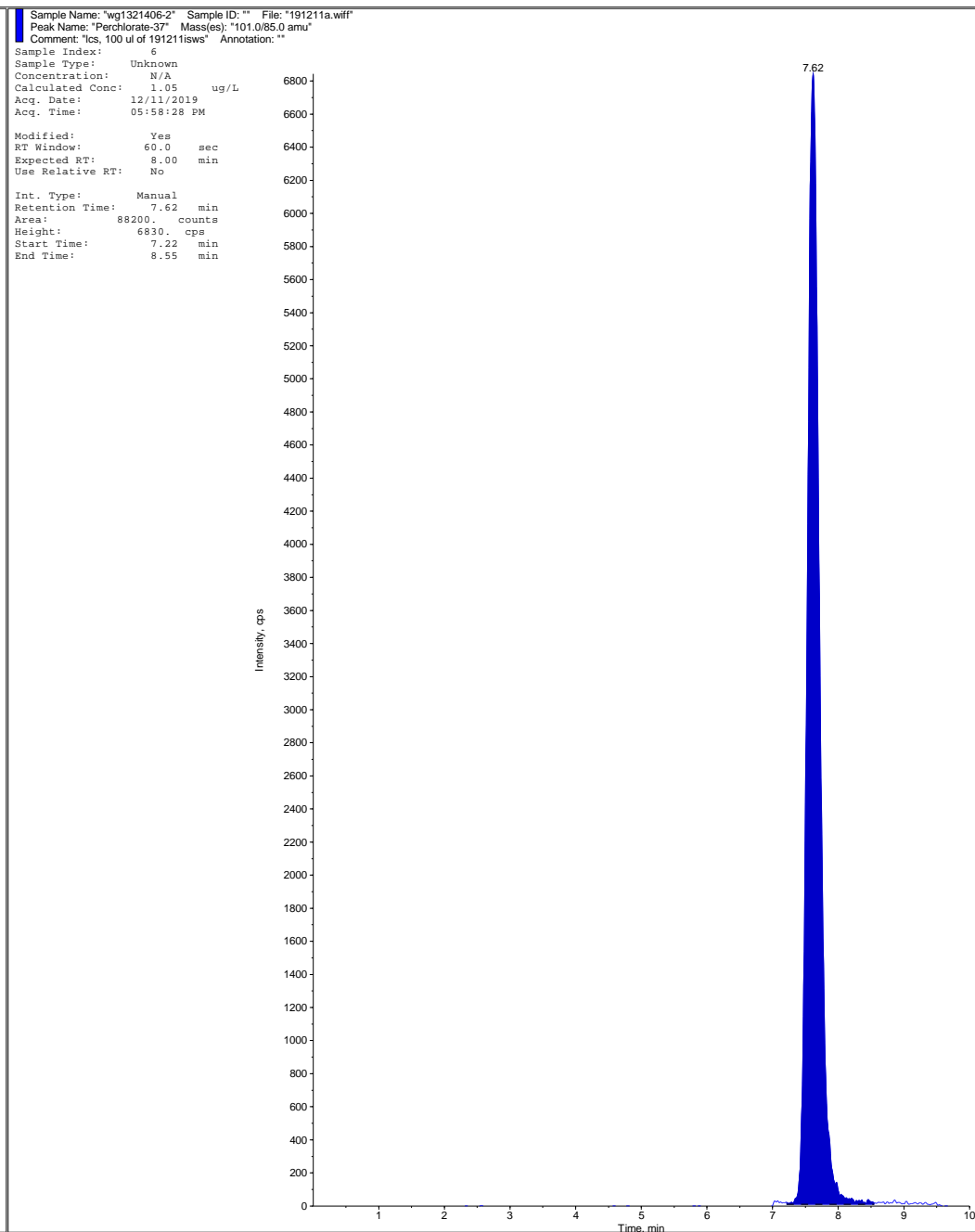
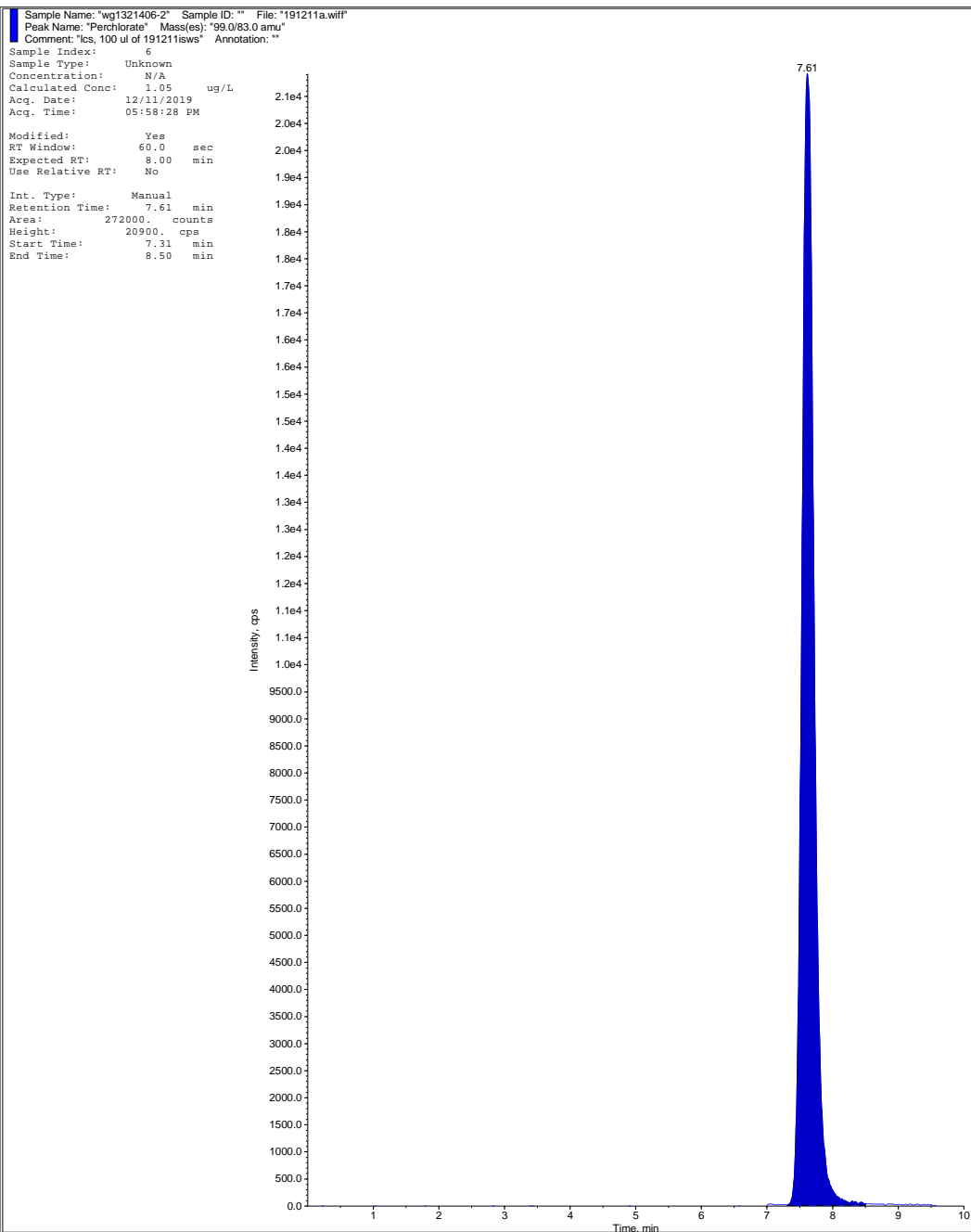
Int. Type: Base To Base
Retention Time: 7.59 min
Area: 325000 counts
Height: 24300 cps
Start Time: 6.97 min
End Time: 8.66 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator



Collected by: N/A
Electronic Signature: no
Operator: Administrator



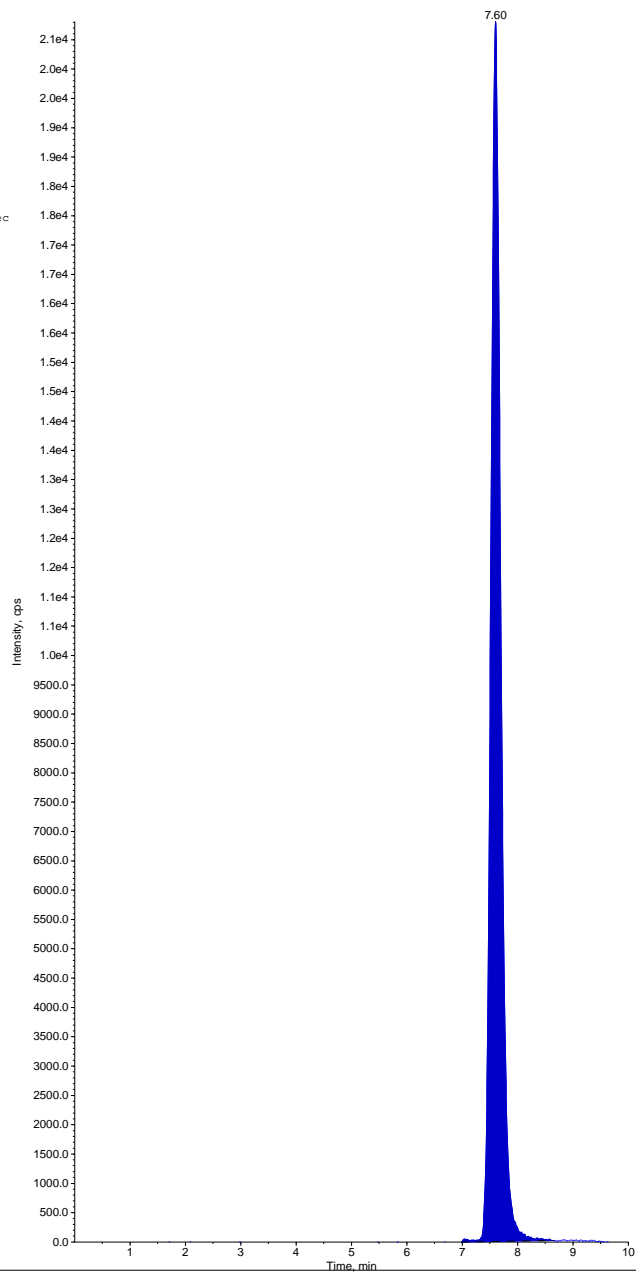
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'wg1321406-2' Sample ID: '' File: '191211a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: 'lcs, 100 ul of 191211isws' Annotation: ''

Sample Index: 6
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 05:58:28 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.60 min
Area: 262000 counts
Height: 20800 cps
Start Time: 6.98 min
End Time: 8.66 min



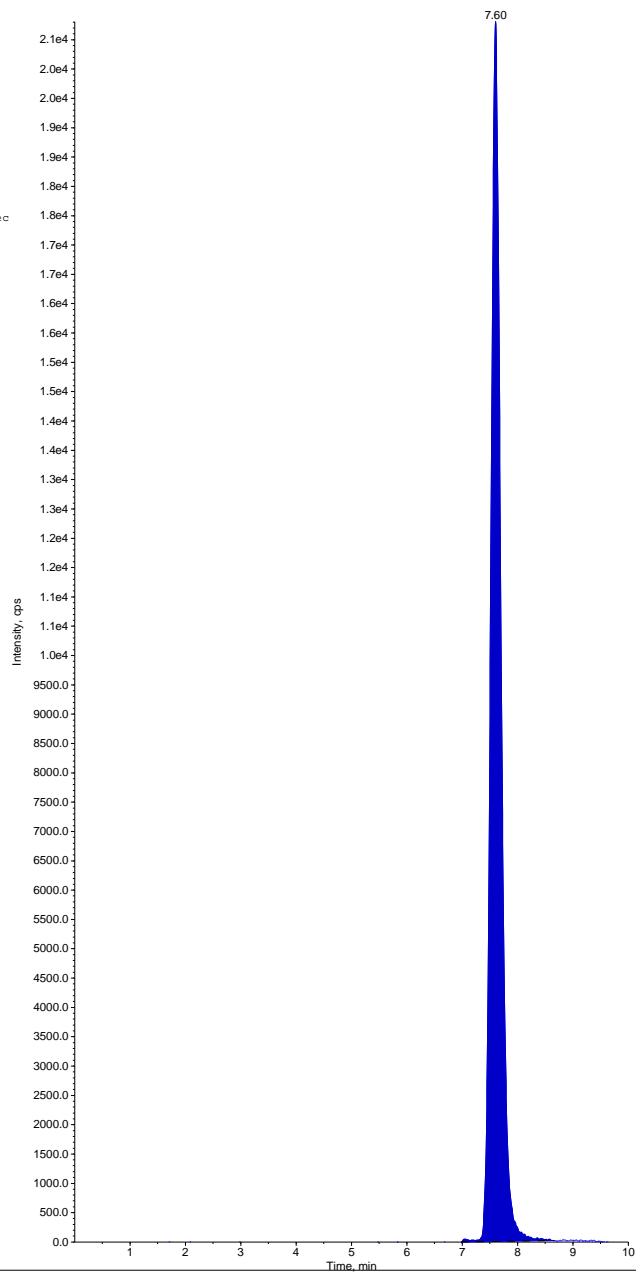
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'wg1321406-2' Sample ID: '' File: '191211a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.0/89.0 amu'
Comment: 'lcs, 100 ul of 191211isws' Annotation: ''

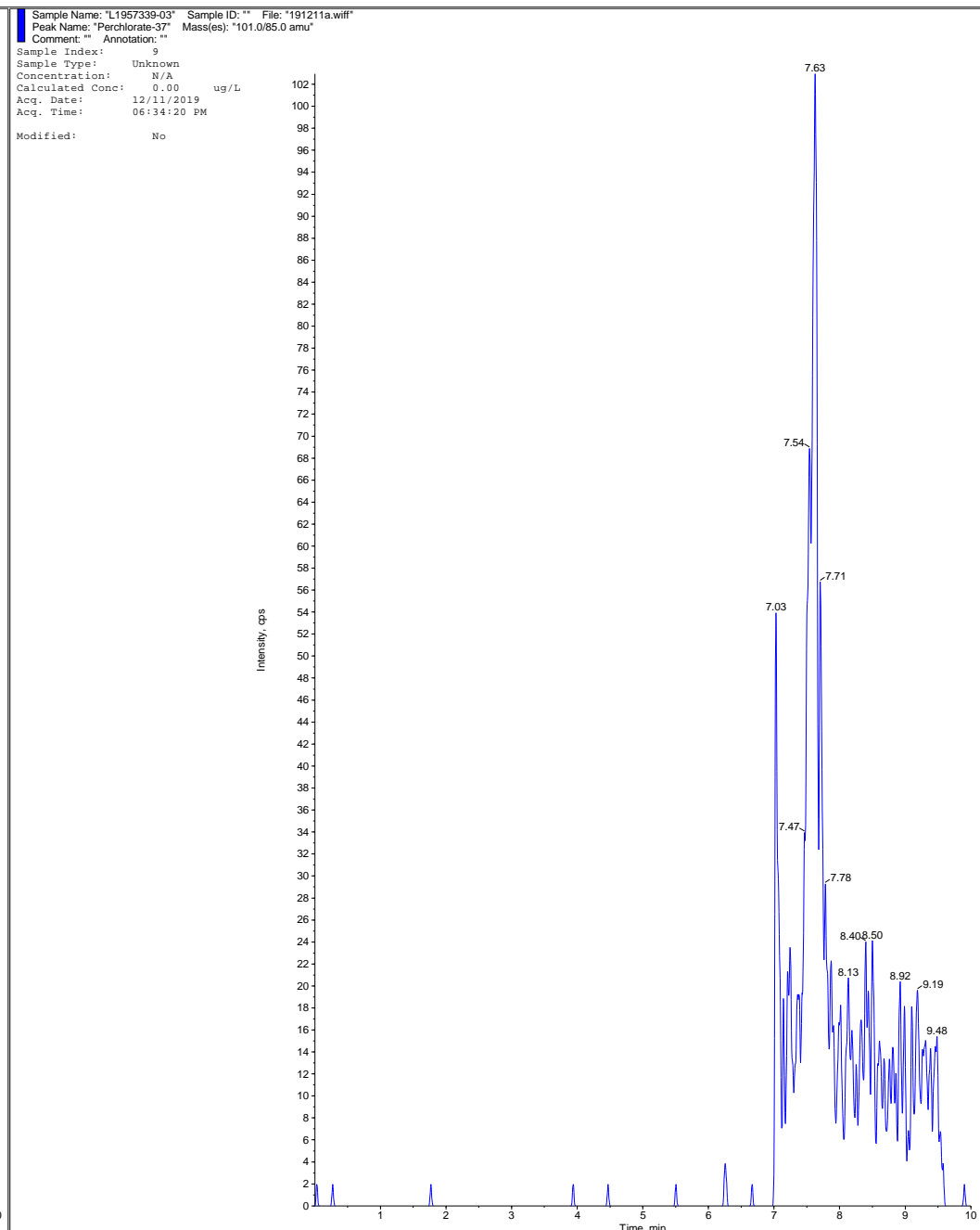
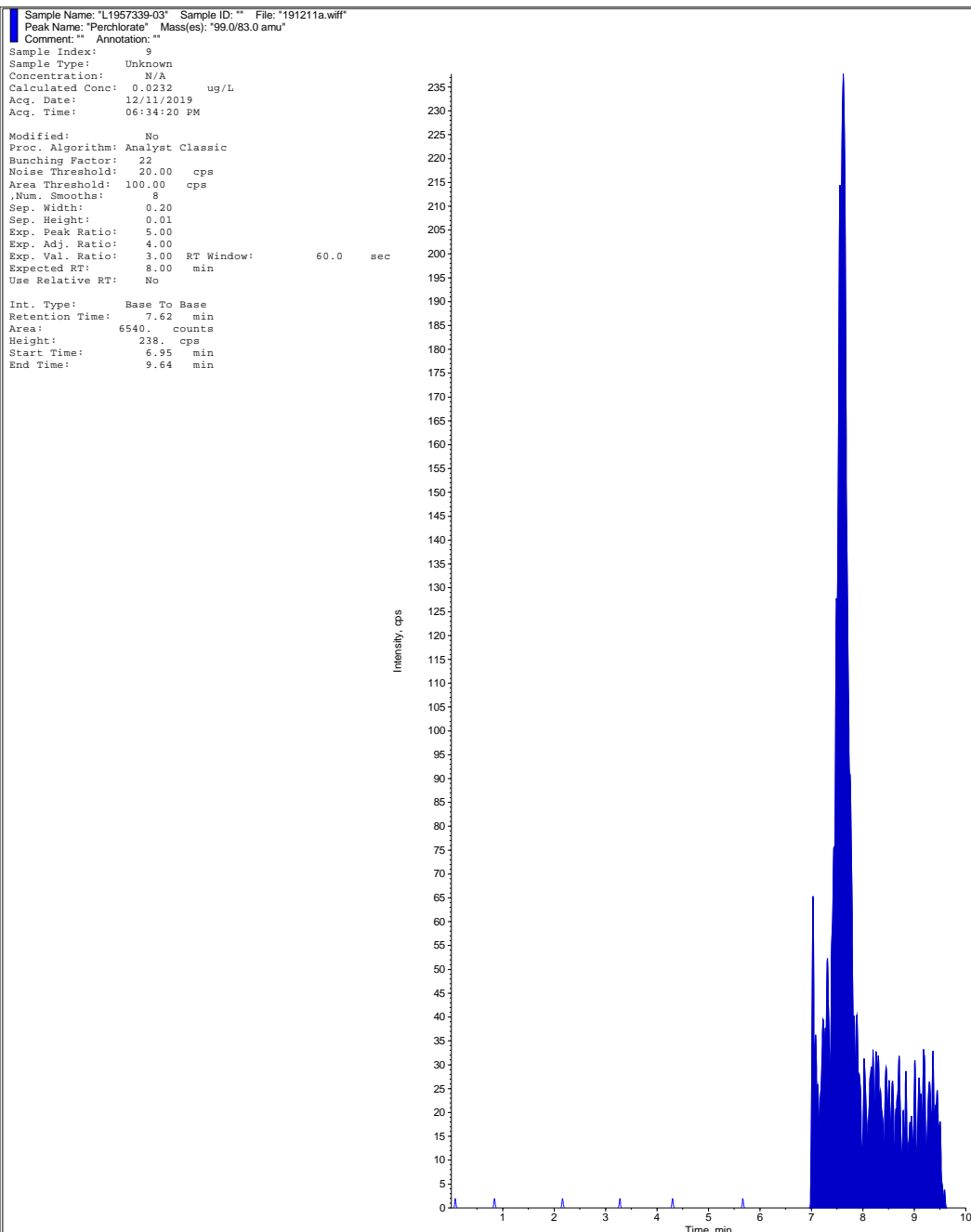
Sample Index: 6
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 05:58:28 PM

Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

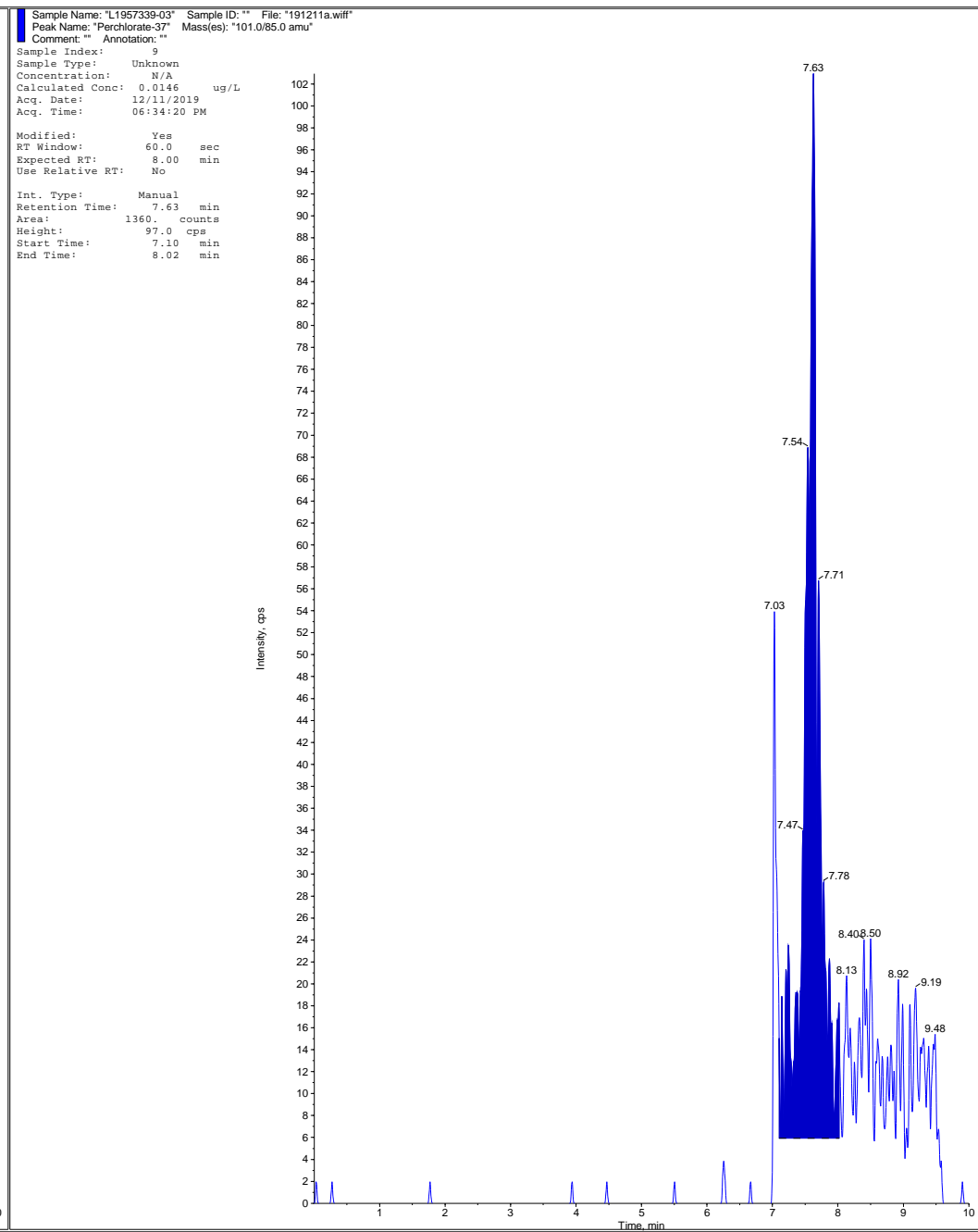
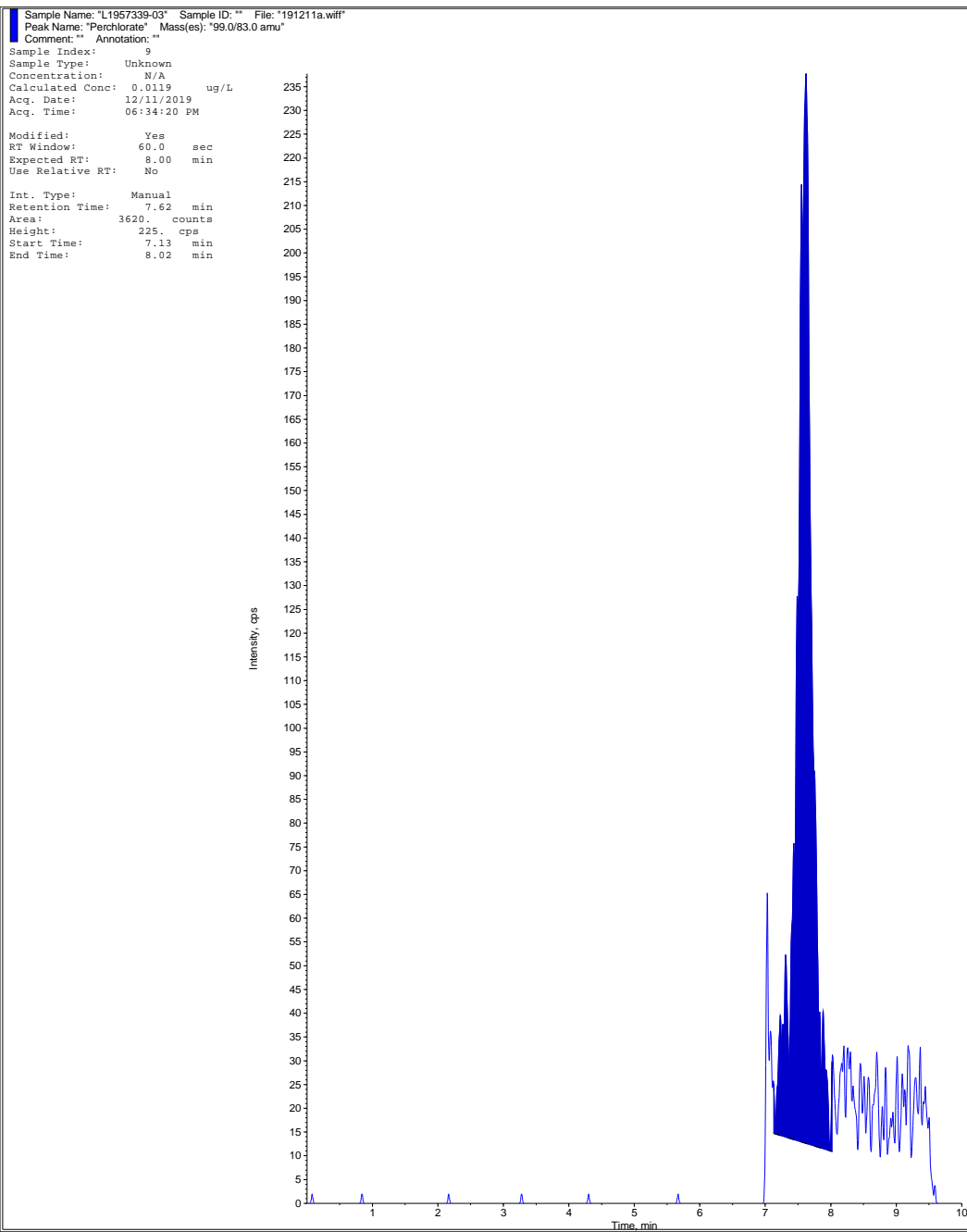
Int. Type: Base To Base
Retention Time: 7.60 min
Area: 262000 counts
Height: 20800 cps
Start Time: 6.98 min
End Time: 8.66 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator



Collected by: N/A
Electronic Signature: no
Operator: Administrator



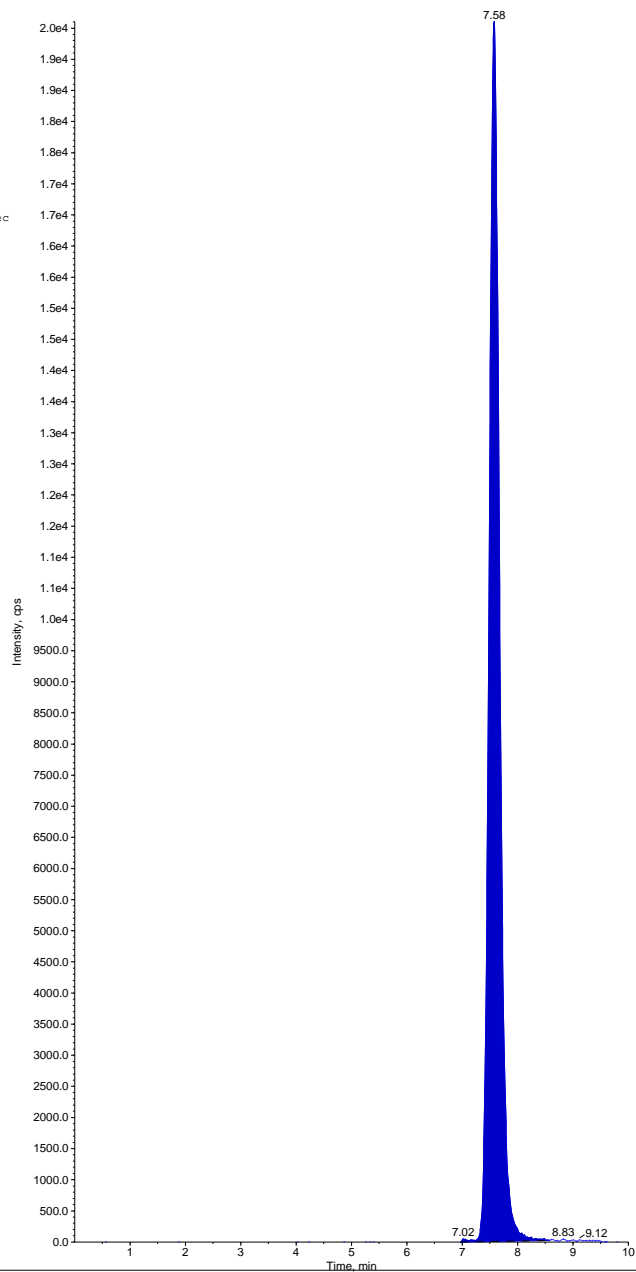
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'L1957339-03' Sample ID: '' File: '191211a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: '' Annotation: ''

Sample Index: 9
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 06:34:20 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.58 min
Area: 261000 counts
Height: 19600 cps
Start Time: 6.97 min
End Time: 8.57 min



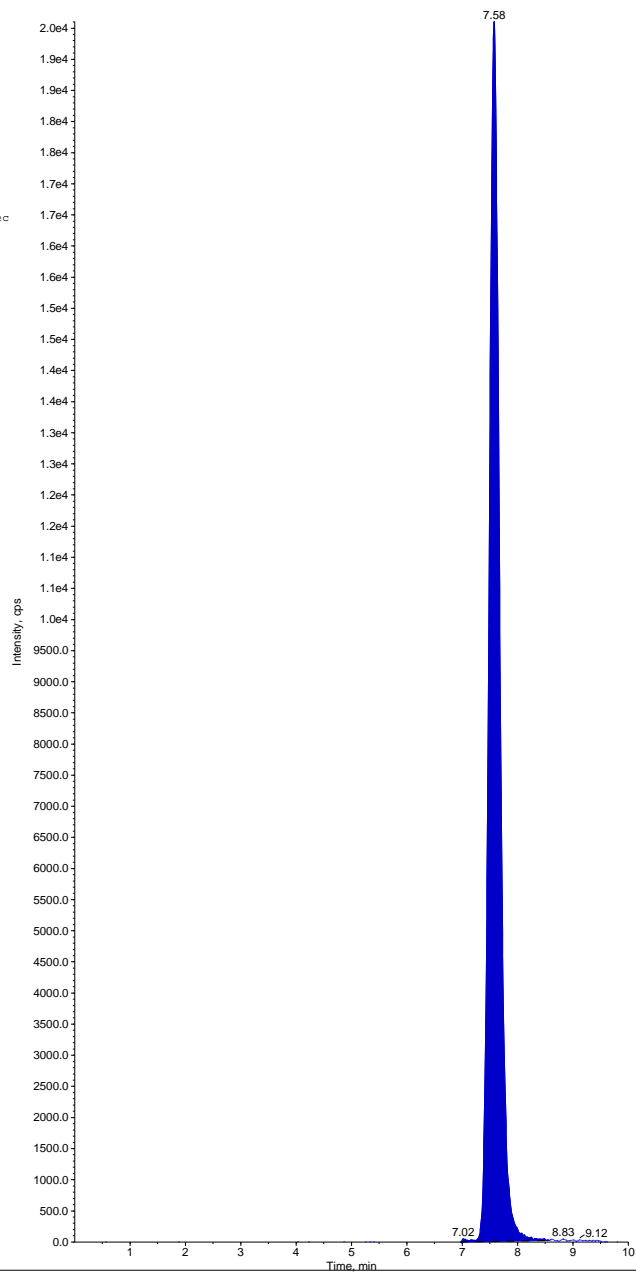
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-03" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

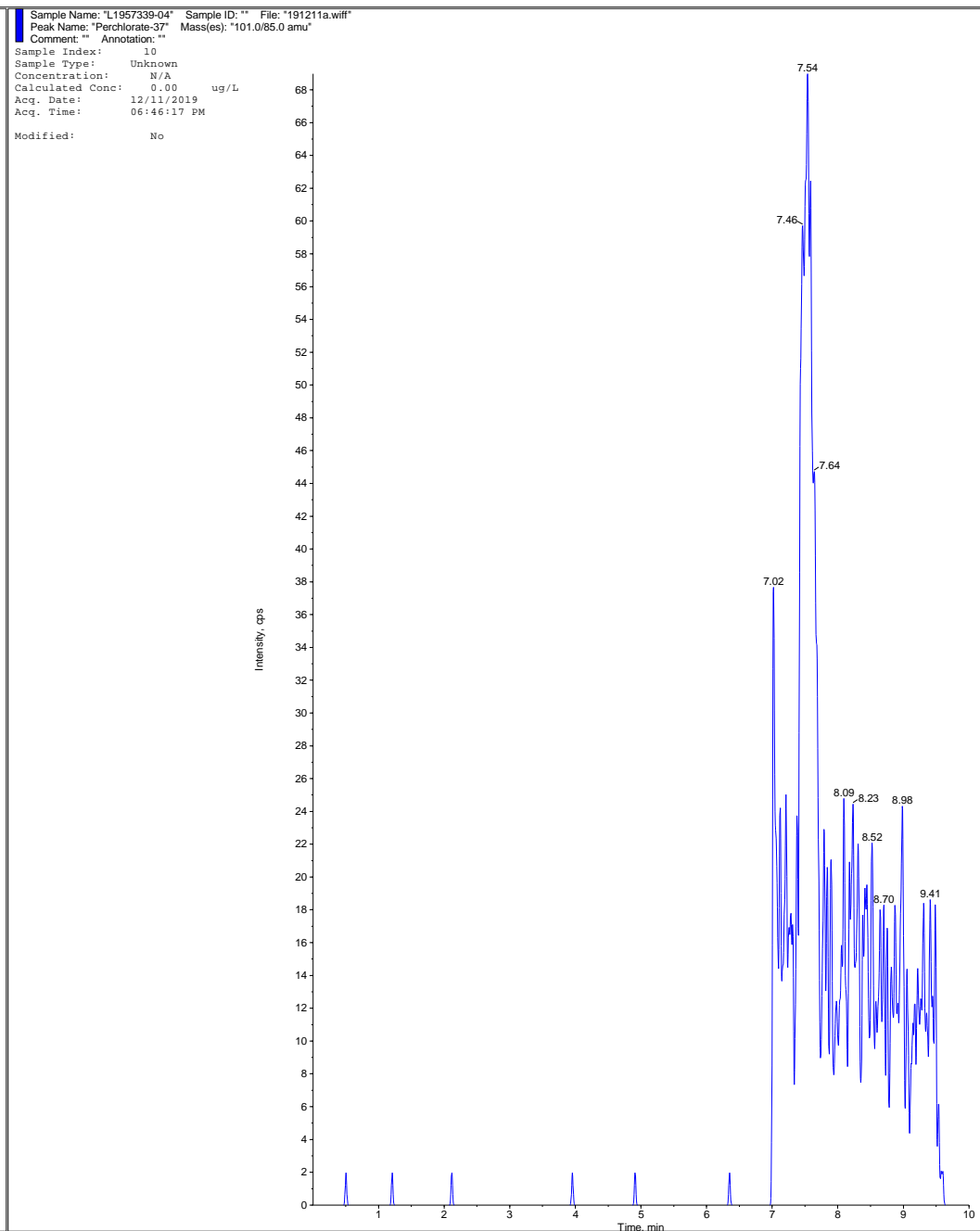
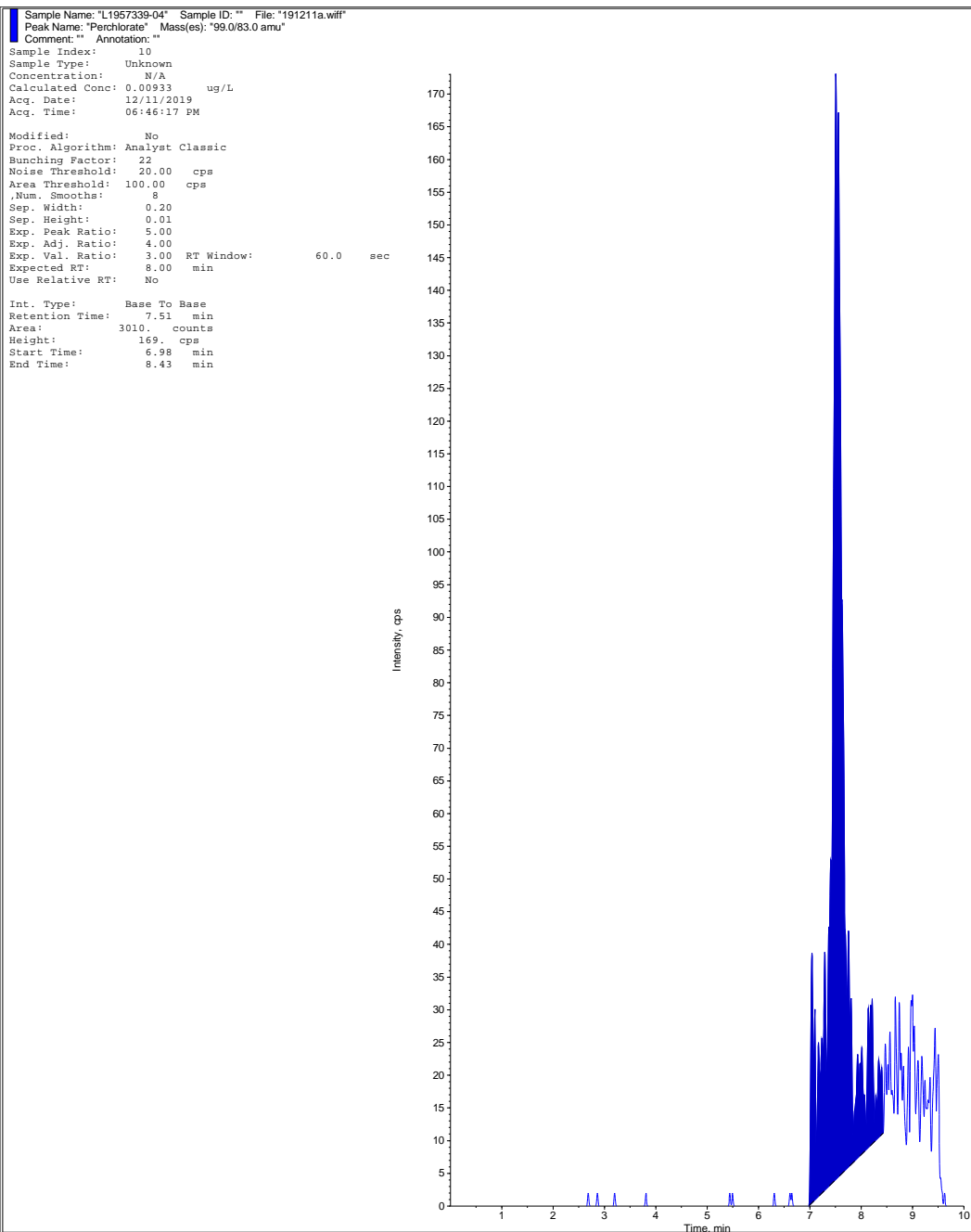
Sample Index: 9
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 06:34:20 PM

Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.58 min
Area: 261000 counts
Height: 19600 cps
Start Time: 6.97 min
End Time: 8.57 min

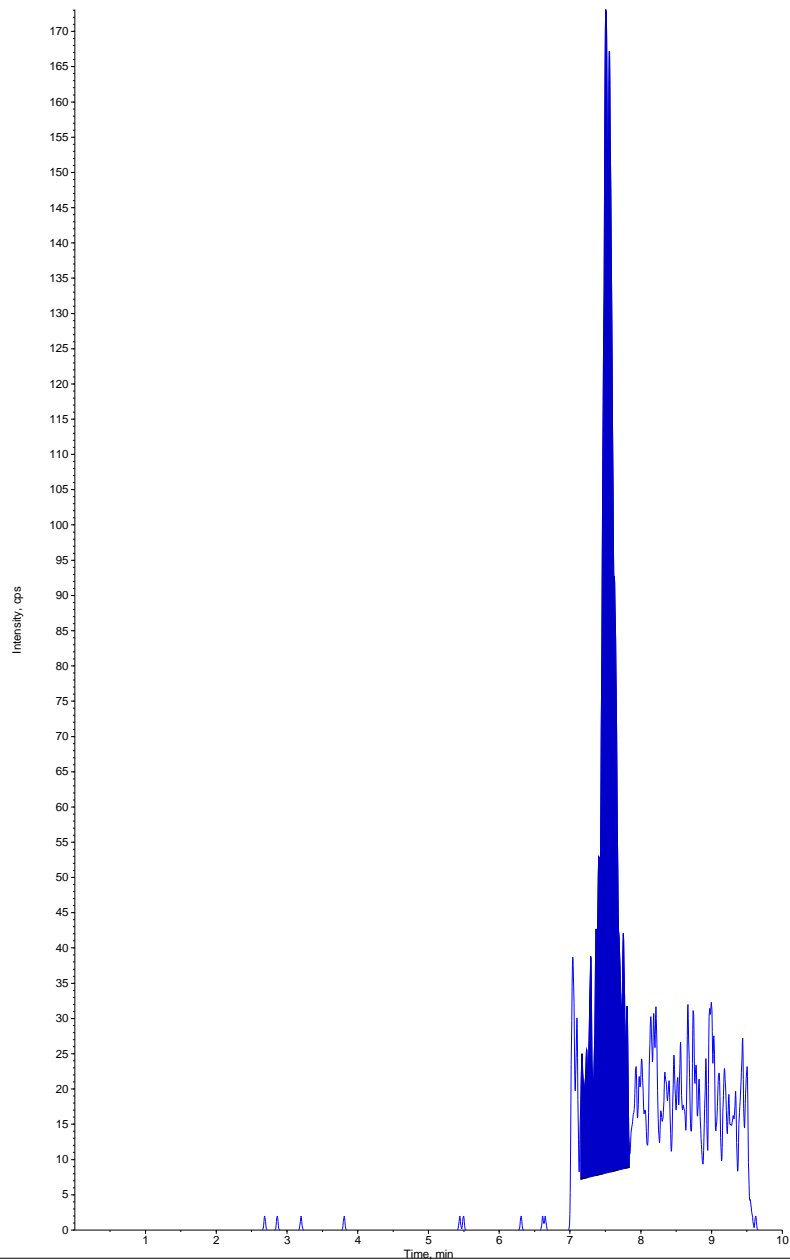


Collected by: N/A
Electronic Signature: no
Operator: Administrator

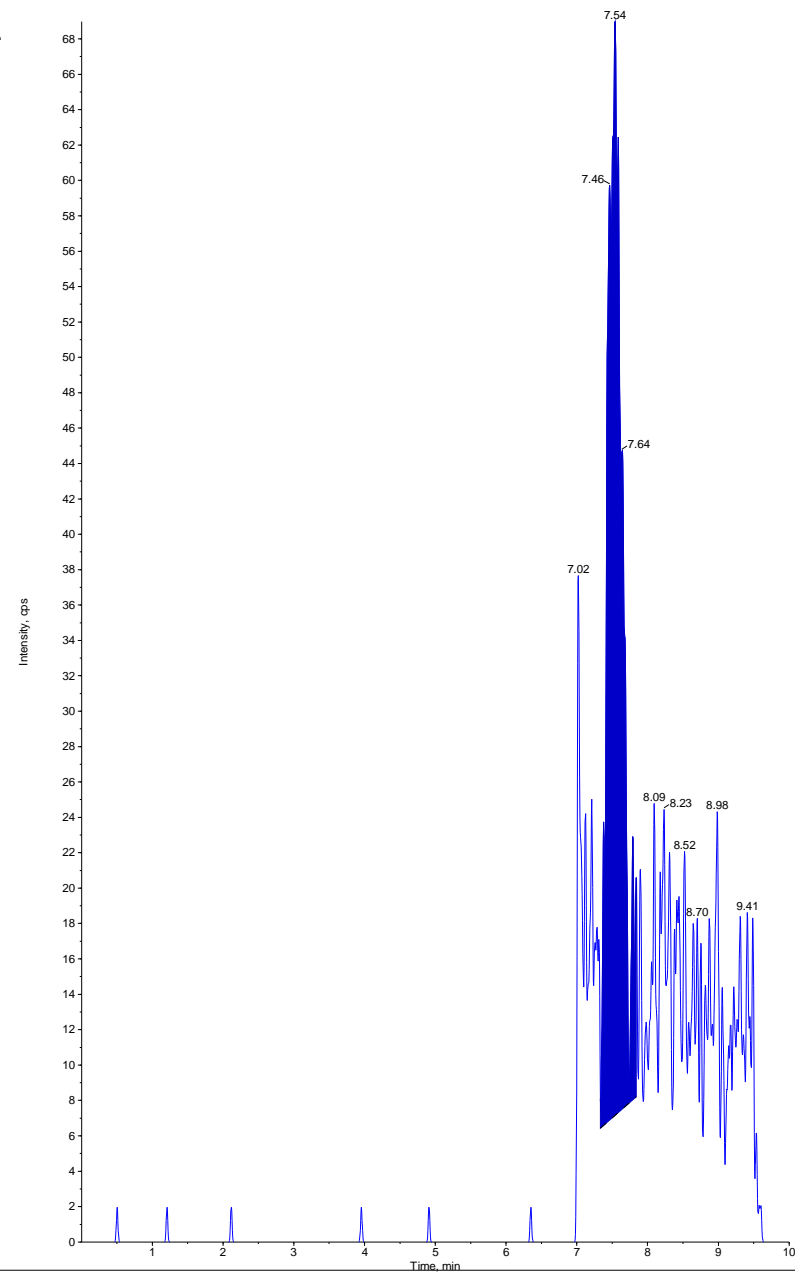


Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-04" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "" Annotation: ""
Sample Index: 10
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00650 ug/L
Acq. Date: 12/11/2019
Acq. Time: 06:46:17 PM
Modified: Yes
RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No
Int. Type: Manual
Retention Time: 7.51 min
Area: 2260 counts
Height: 165 cps
Start Time: 7.15 min
End Time: 7.84 min



Sample Name: "L1957339-04" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "" Annotation: ""
Sample Index: 10
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00886 ug/L
Acq. Date: 12/11/2019
Acq. Time: 06:46:17 PM
Modified: Yes
RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No
Int. Type: Manual
Retention Time: 7.54 min
Area: 890 counts
Height: 62.0 cps
Start Time: 7.33 min
End Time: 7.84 min



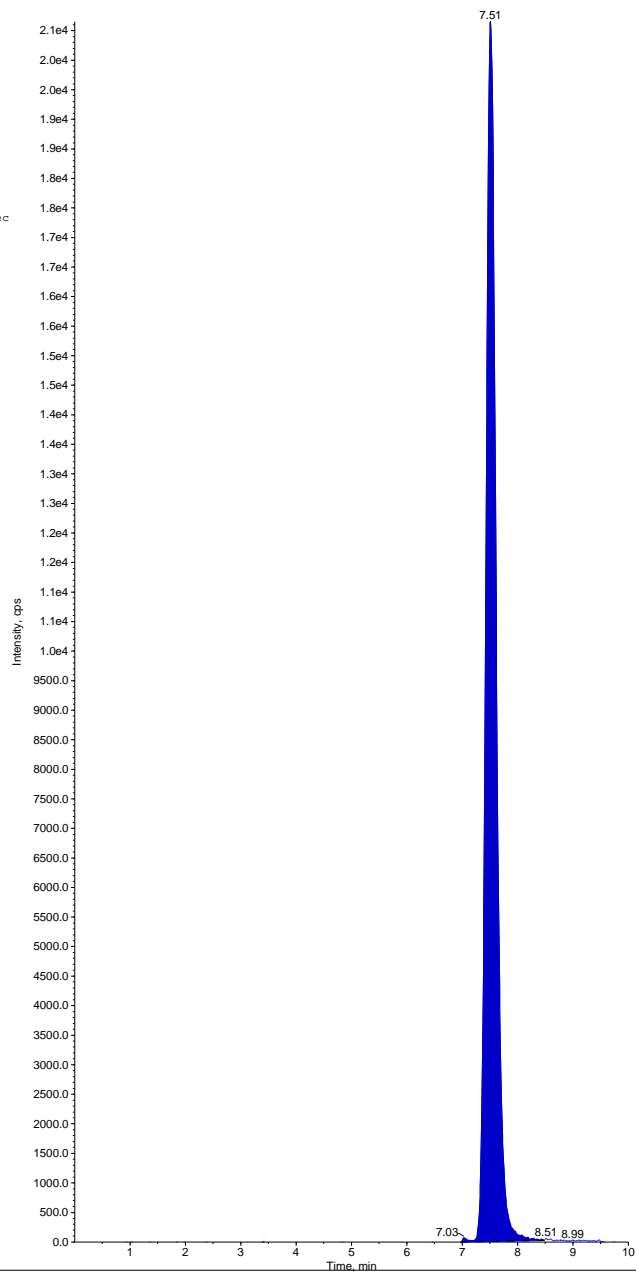
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-04" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

Sample Index: 10
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 06:46:17 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.51 min
Area: 266000 counts
Height: 20600 cps
Start Time: 6.97 min
End Time: 8.48 min



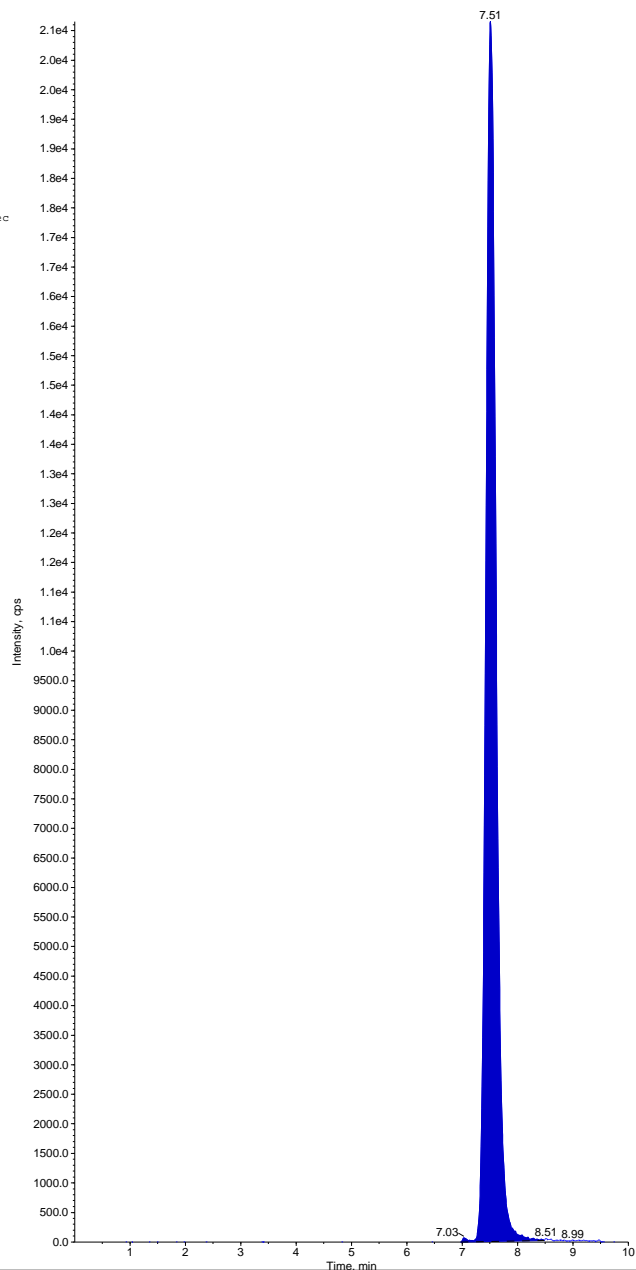
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-04" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

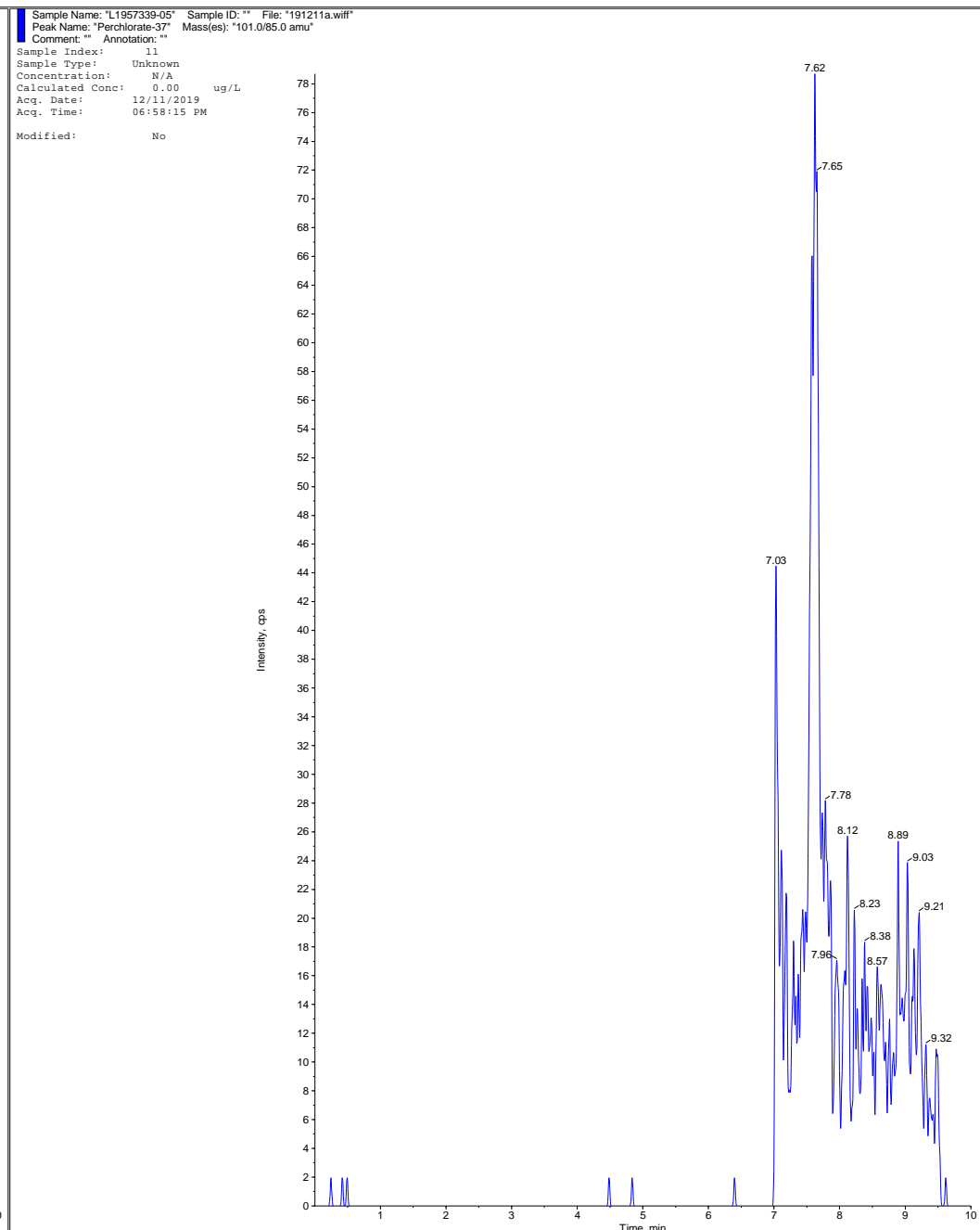
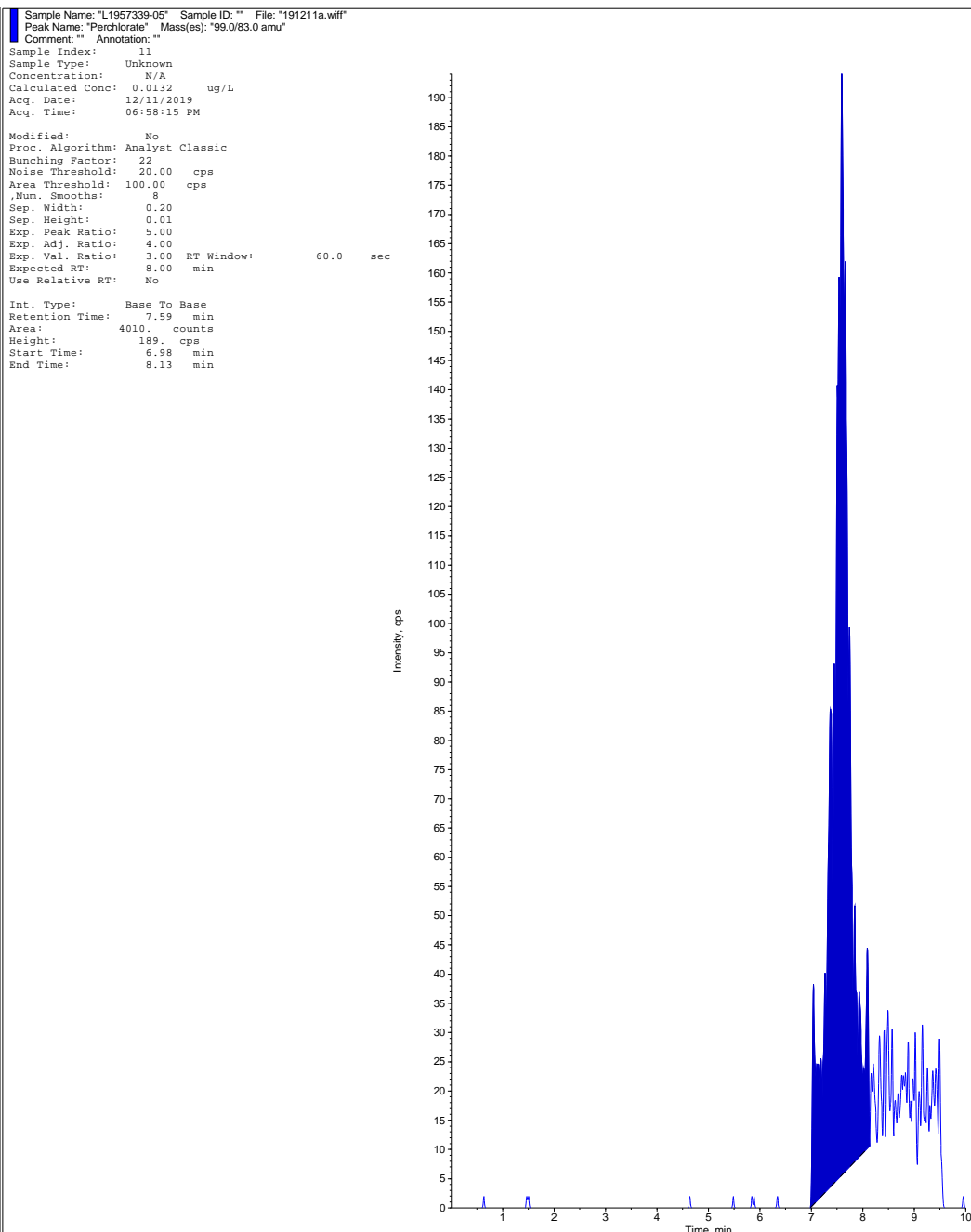
Sample Index: 10
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 06:46:17 PM

Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.51 min
Area: 266000 counts
Height: 20600 cps
Start Time: 6.97 min
End Time: 8.48 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator



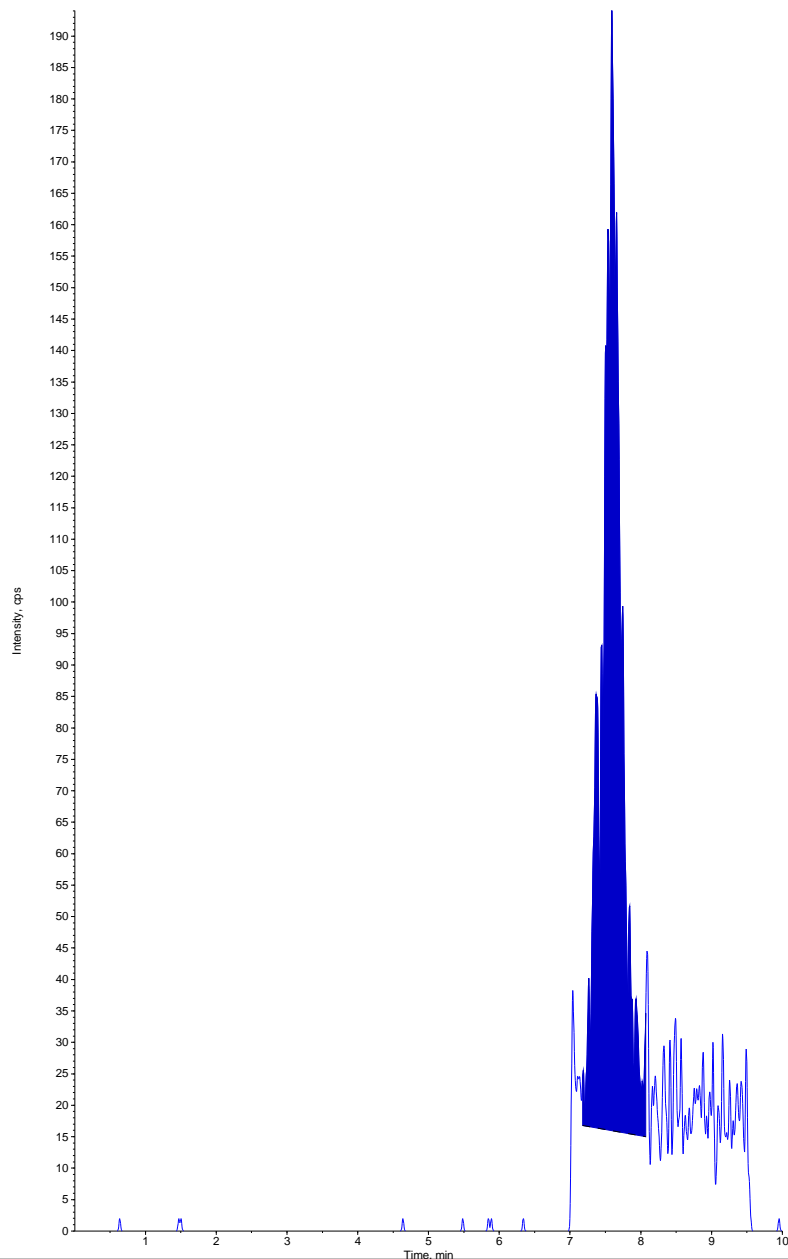
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-05" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"

Comment: "" Annotation: ""
Sample Index: 11
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00989 ug/L
Acq. Date: 12/11/2019
Acq. Time: 06:58:15 PM

Modified: Yes
RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Manual
Retention Time: 7.59 min
Area: 3140 counts
Height: 178 cps
Start Time: 7.18 min
End Time: 8.07 min

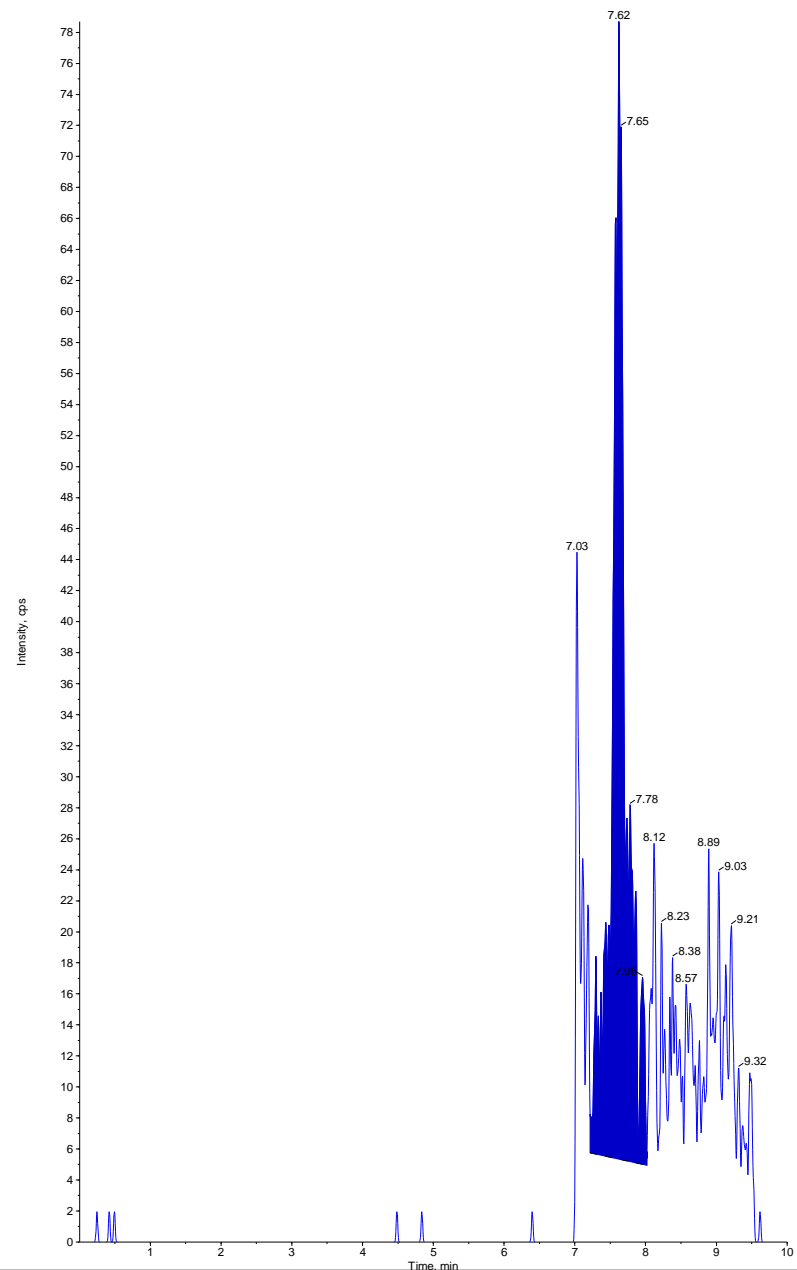


Sample Name: "L1957339-05" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"

Comment: "" Annotation: ""
Sample Index: 11
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.0100 ug/L
Acq. Date: 12/11/2019
Acq. Time: 06:58:15 PM

Modified: Yes
RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Manual
Retention Time: 7.62 min
Area: 988 counts
Height: 73.4 cps
Start Time: 7.22 min
End Time: 8.02 min



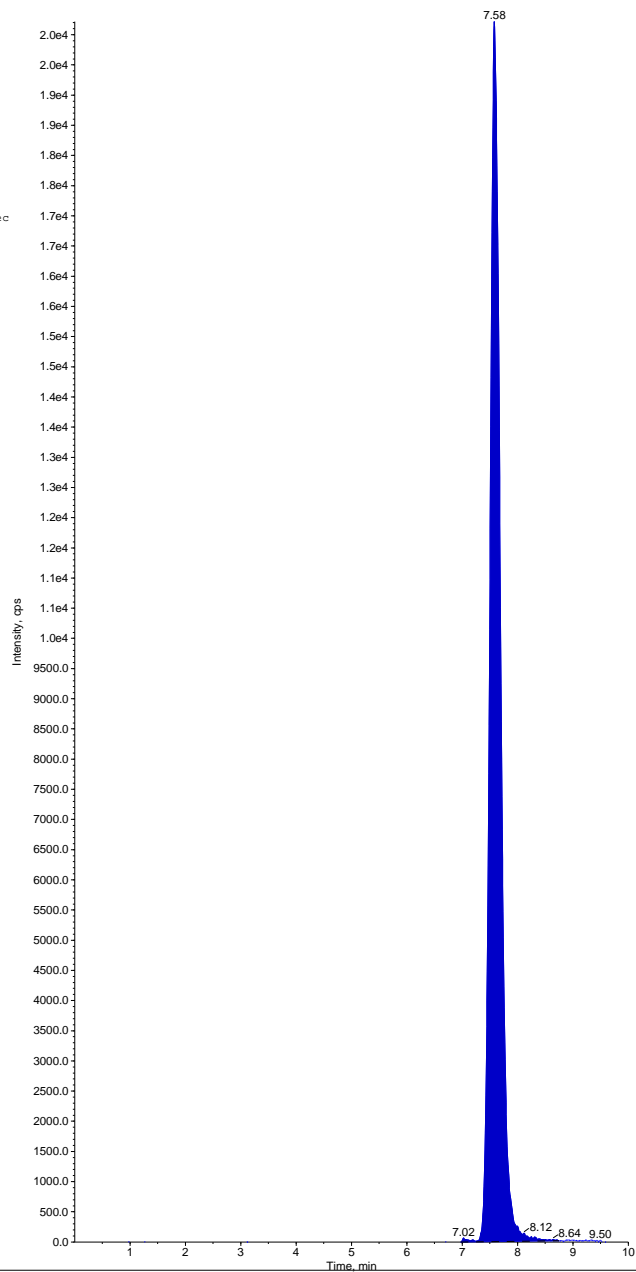
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'L1957339-05' Sample ID: '' File: '191211a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: '' Annotation: ''

Sample Index: 11
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 06:58:15 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.58 min
Area: 265000 counts
Height: 20200 cps
Start Time: 6.97 min
End Time: 8.75 min



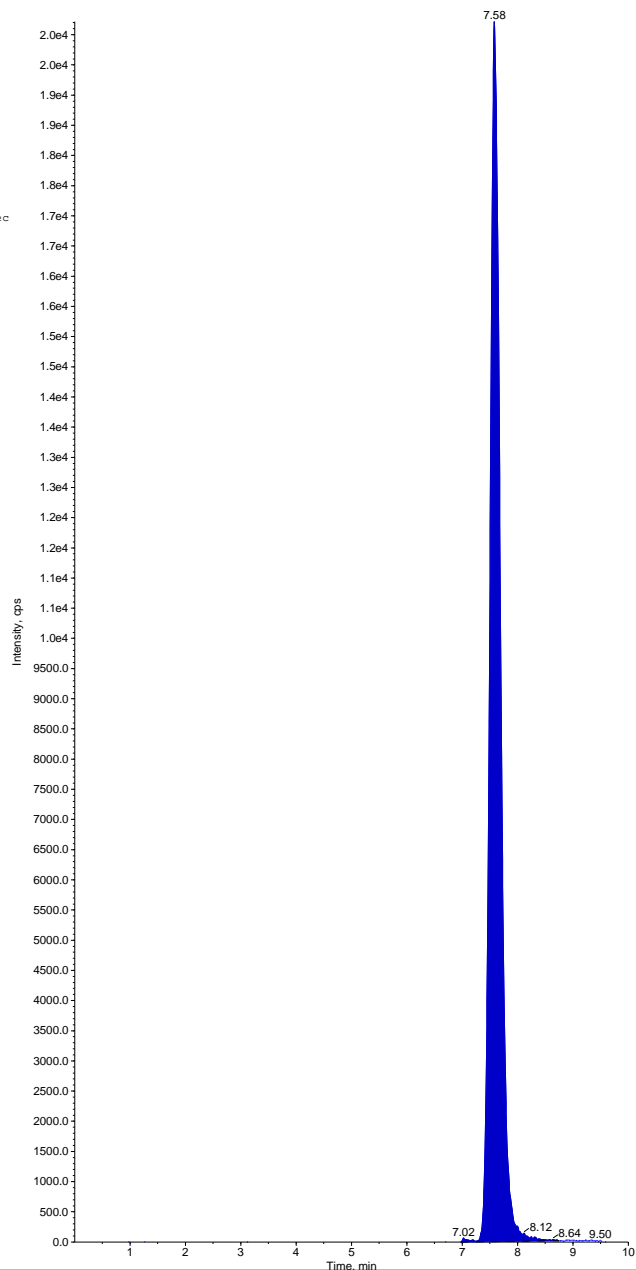
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'L1957339-05' Sample ID: '' File: '191211a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: '' Annotation: ''

Sample Index: 11
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 06:58:15 PM

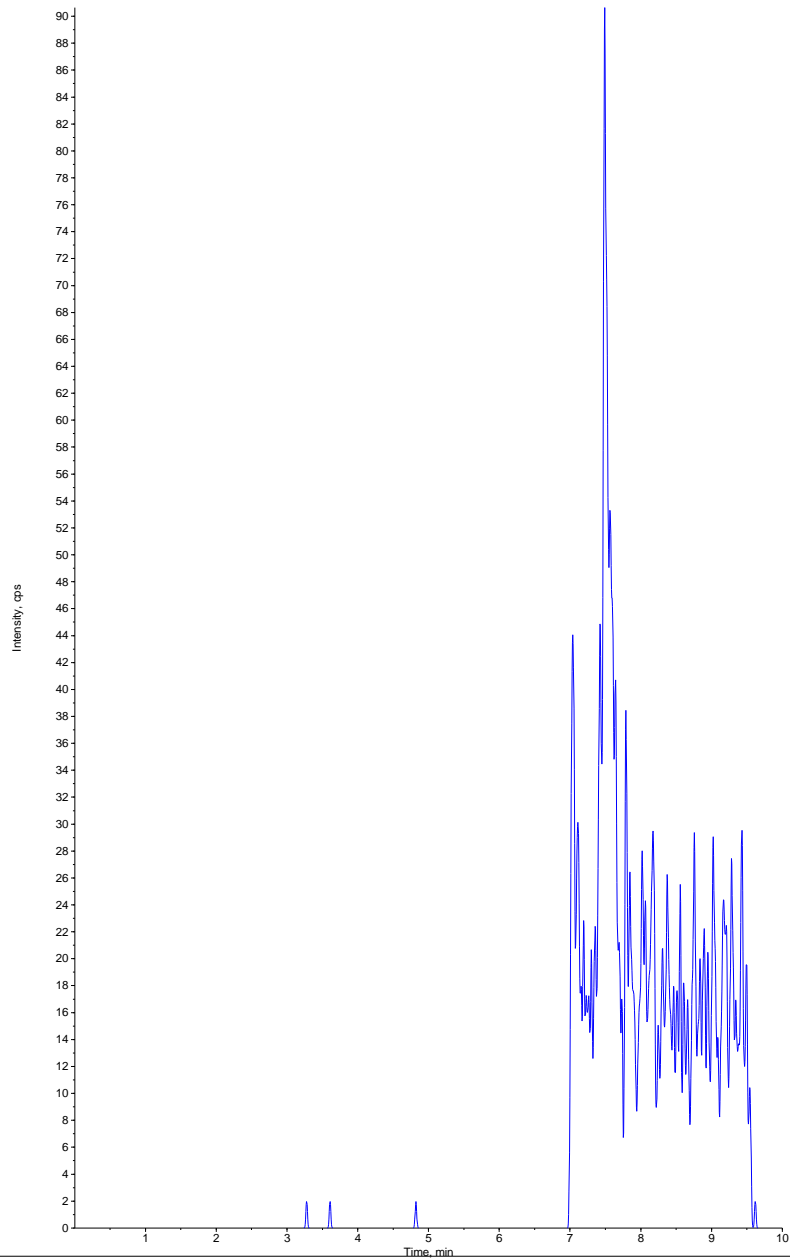
Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.58 min
Area: 265000 counts
Height: 20200 cps
Start Time: 6.97 min
End Time: 8.75 min

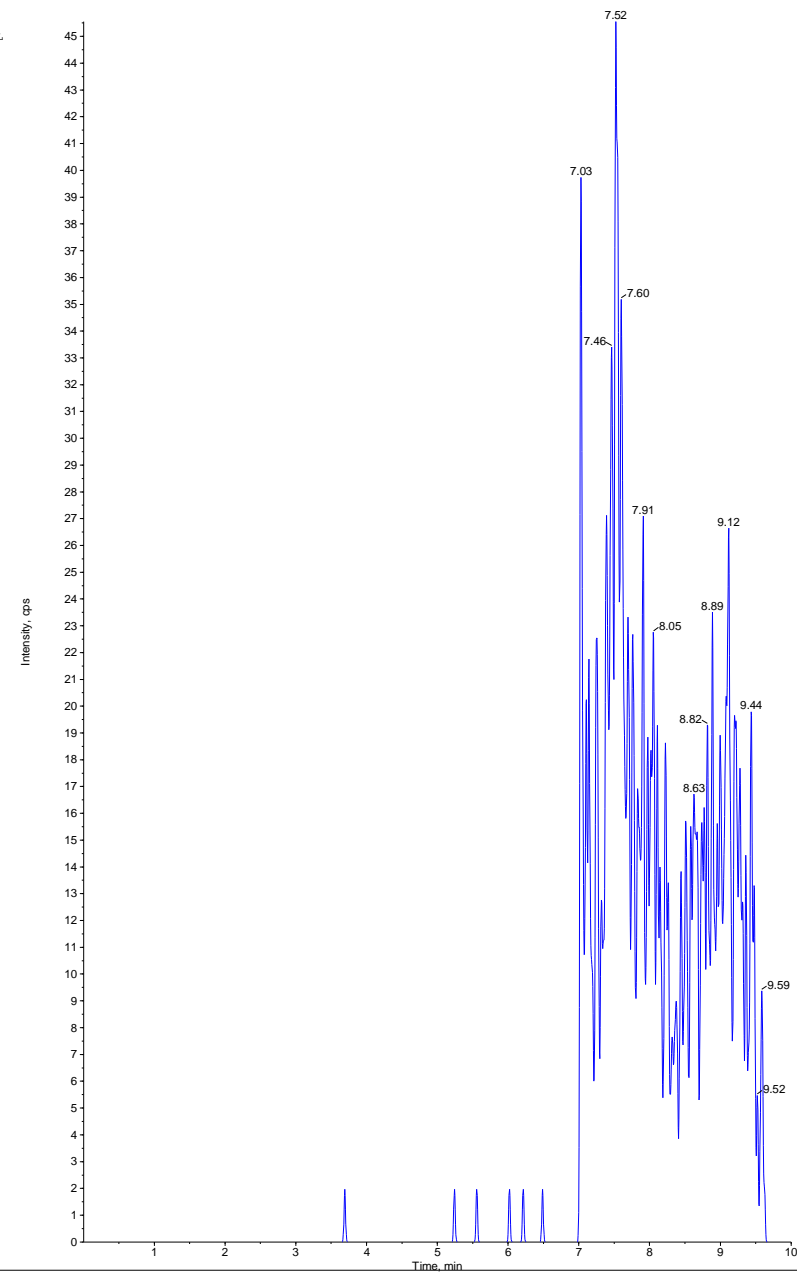


Collected by: N/A
Electronic Signature: no
Operator: Administrator

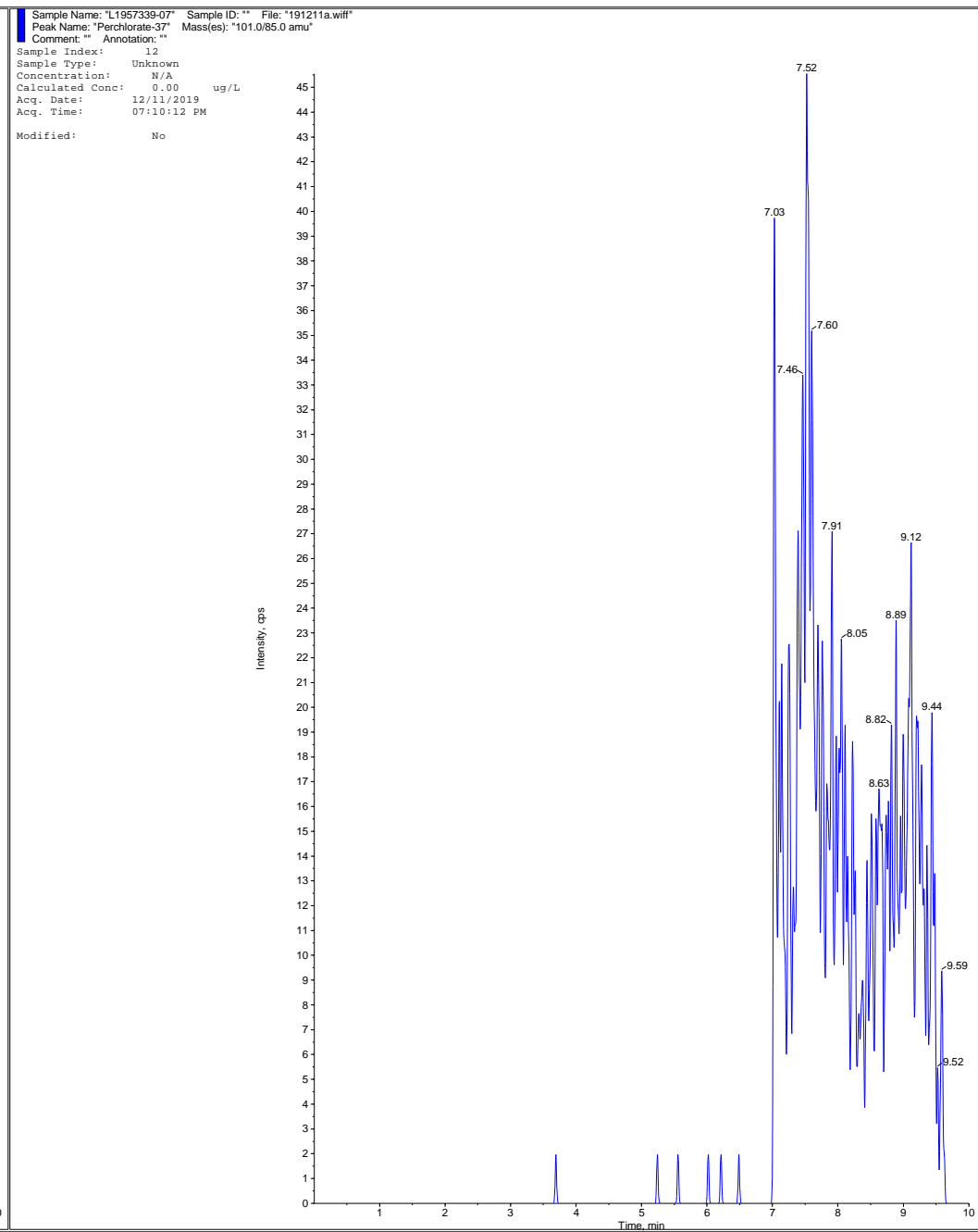
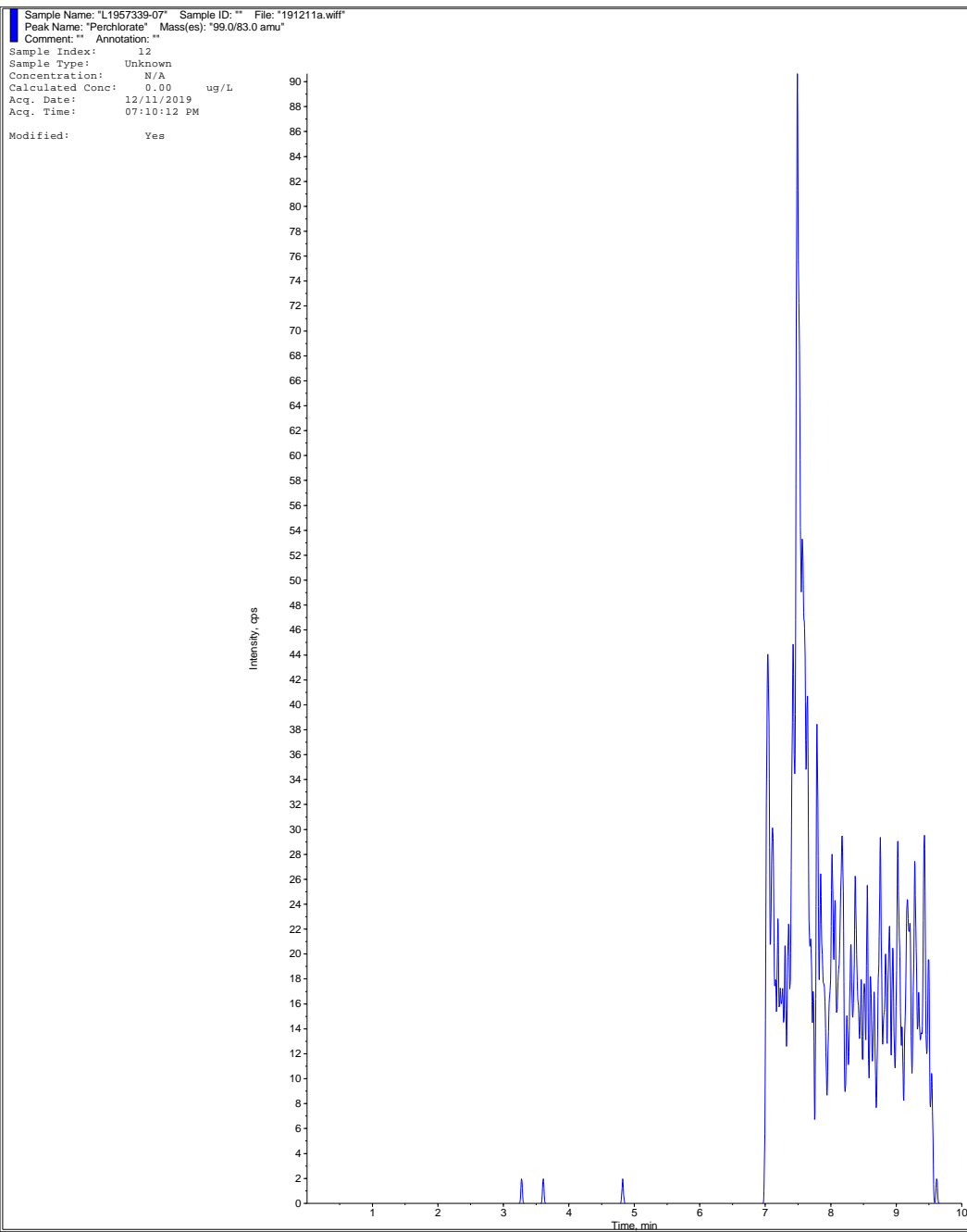
Sample Name: "L1957339-07" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "" Annotation: ""
Sample Index: 12
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/11/2019
Acq. Time: 07:10:12 PM
Modified: No



Sample Name: "L1957339-07" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "" Annotation: ""
Sample Index: 12
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/11/2019
Acq. Time: 07:10:12 PM
Modified: No



Collected by: N/A
Electronic Signature: no
Operator: Administrator



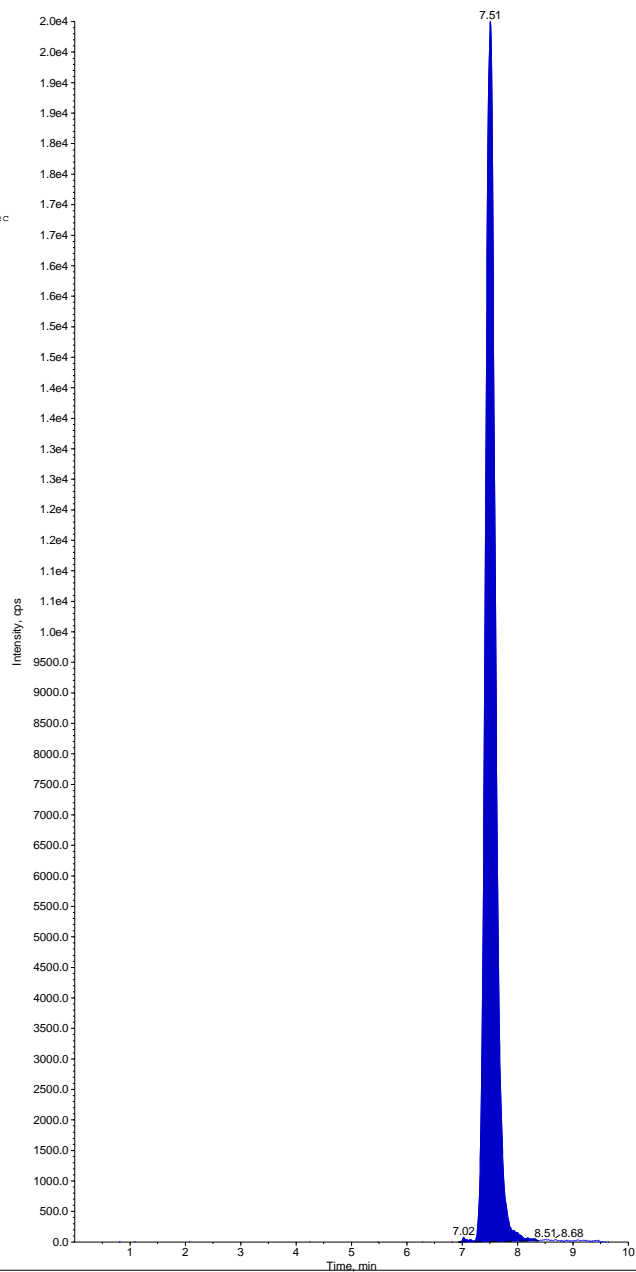
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-07" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

Sample Index: 12
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 07:10:12 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.51 min
Area: 255000 counts
Height: 20000 cps
Start Time: 6.93 min
End Time: 8.38 min



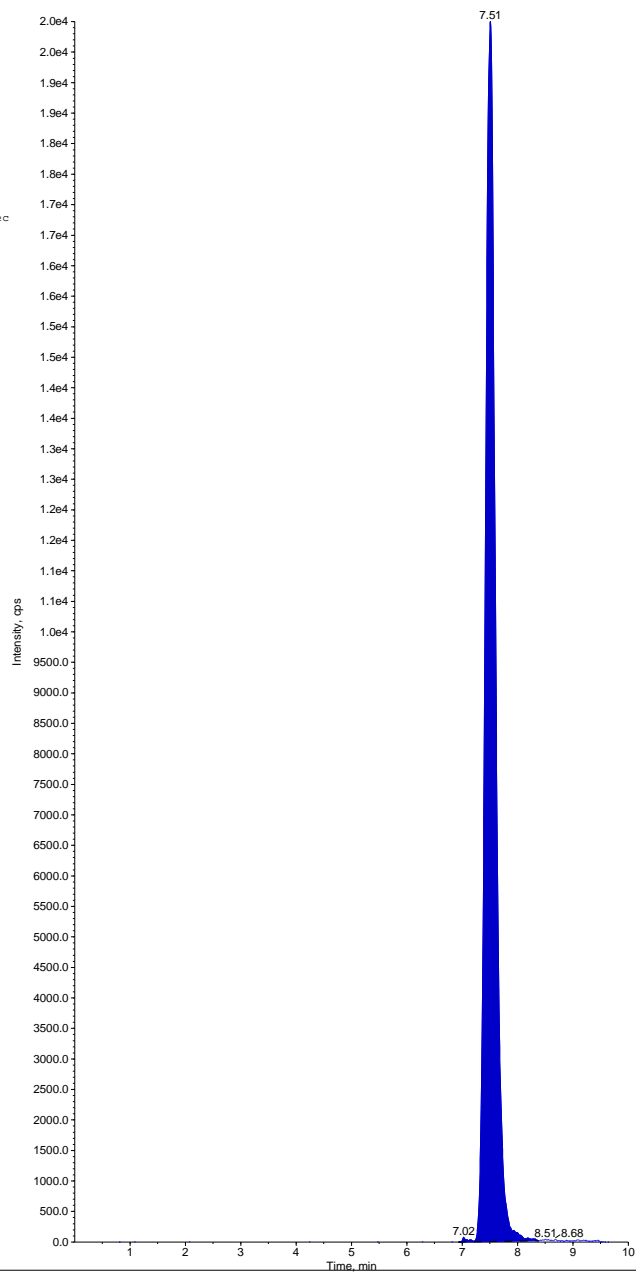
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-07" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

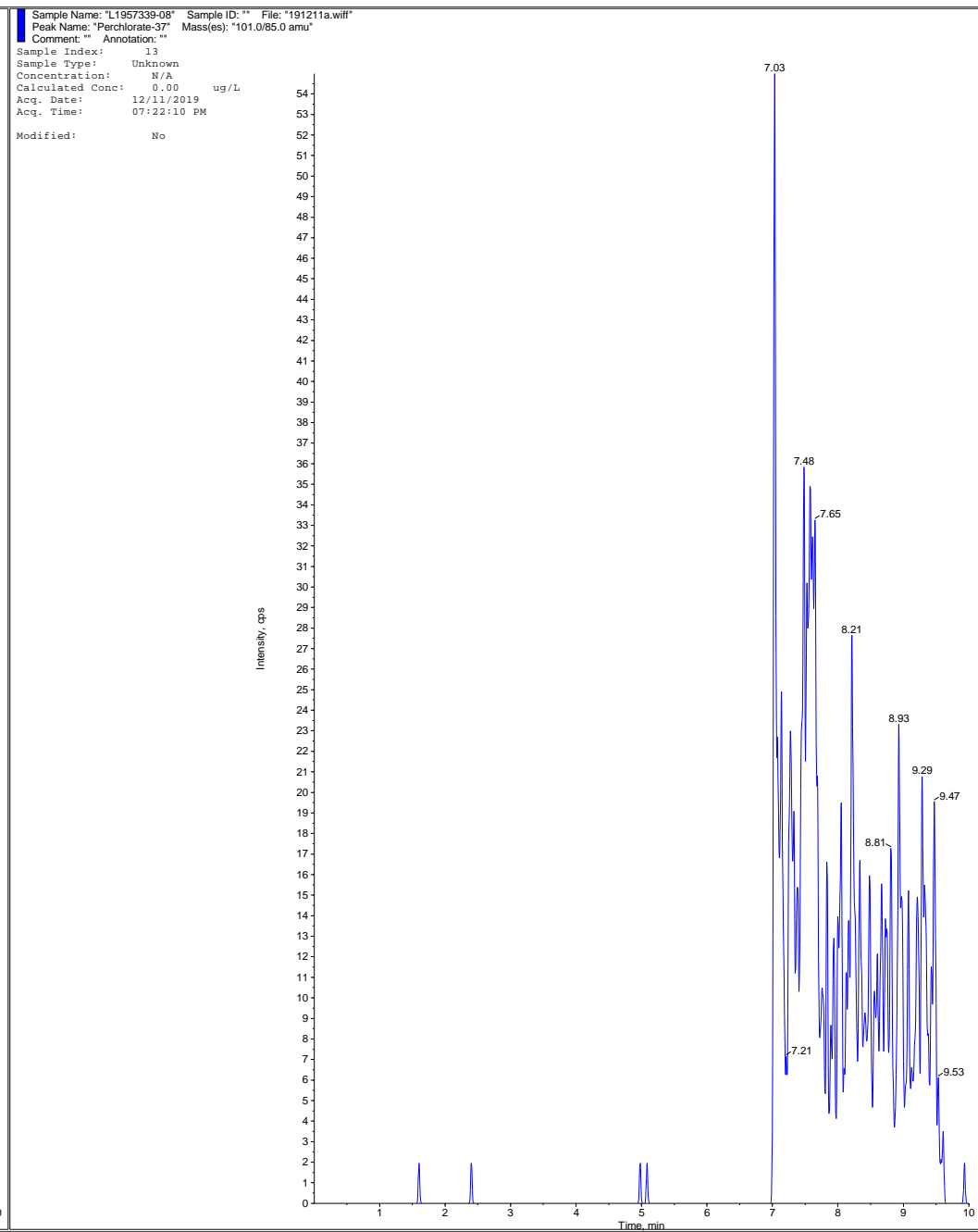
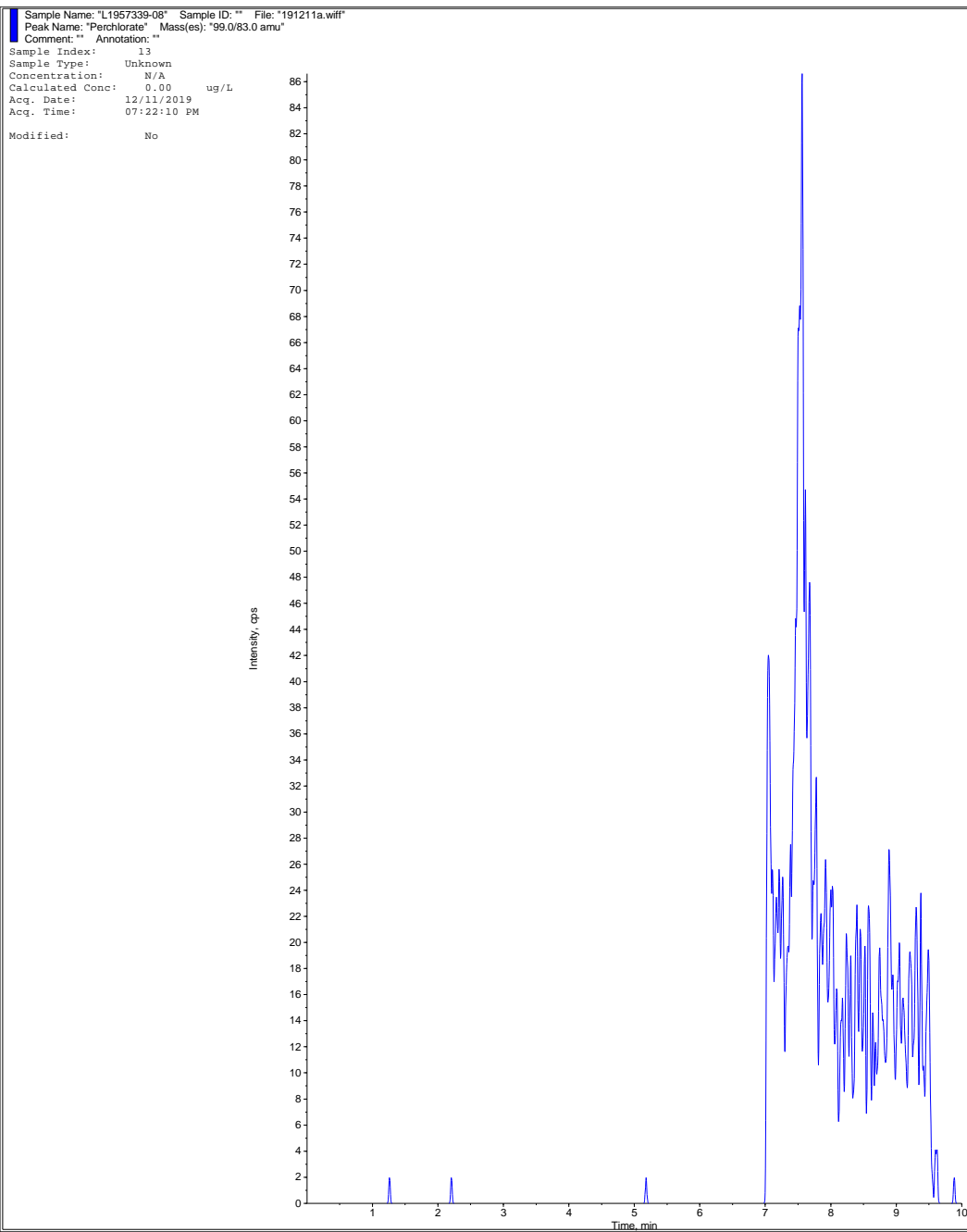
Sample Index: 12
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 07:10:12 PM

Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

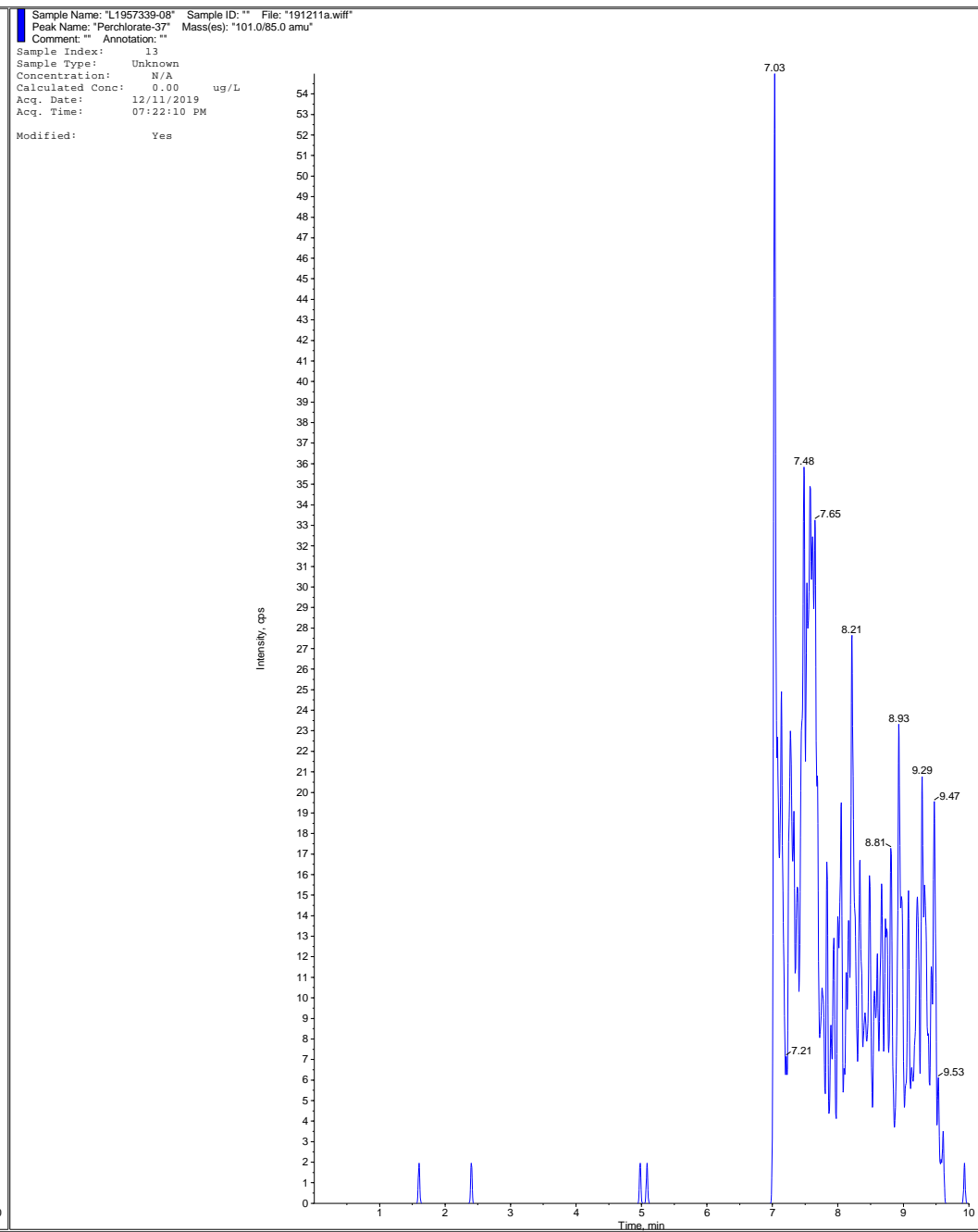
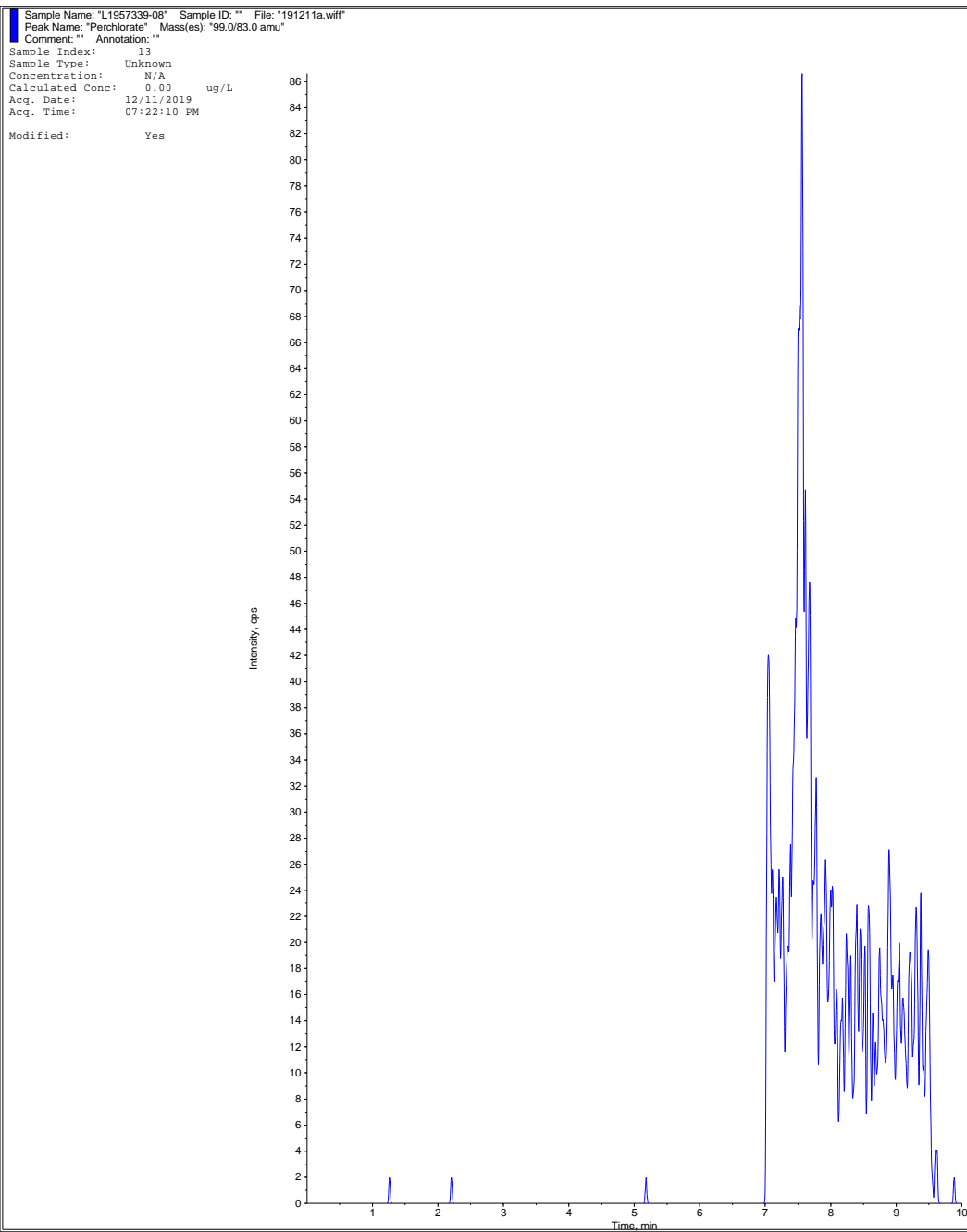
Int. Type: Base To Base
Retention Time: 7.51 min
Area: 255000 counts
Height: 20000 cps
Start Time: 6.93 min
End Time: 8.38 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator



Collected by: N/A
Electronic Signature: no
Operator: Administrator



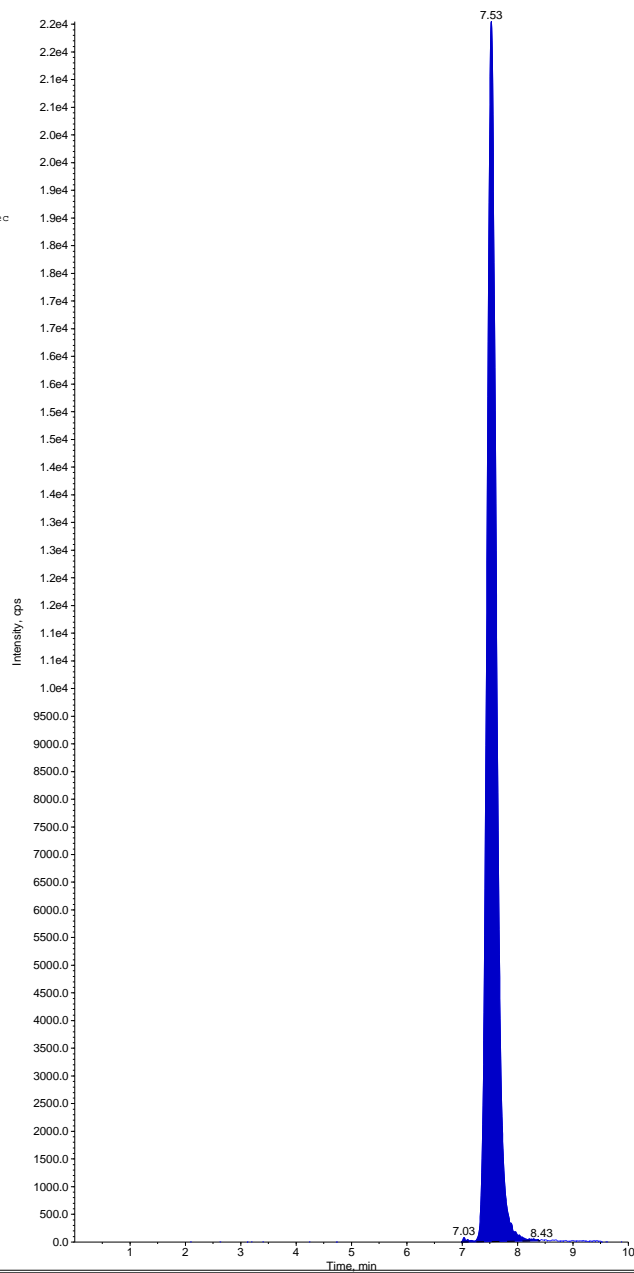
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'L1957339-08' Sample ID: '' File: '191211a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: '' Annotation: ''

Sample Index: 13
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 07:22:10 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.53 min
Area: 263000 counts
Height: 22000 cps
Start Time: 6.98 min
End Time: 8.40 min



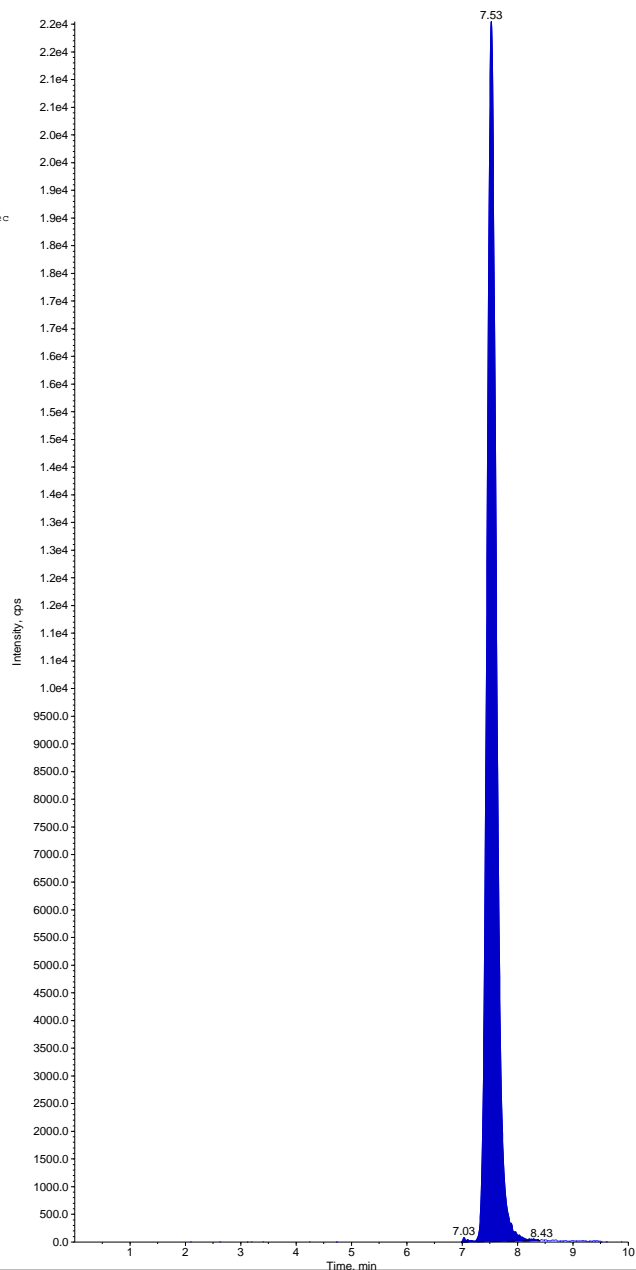
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-08" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

Sample Index: 13
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 07:22:10 PM

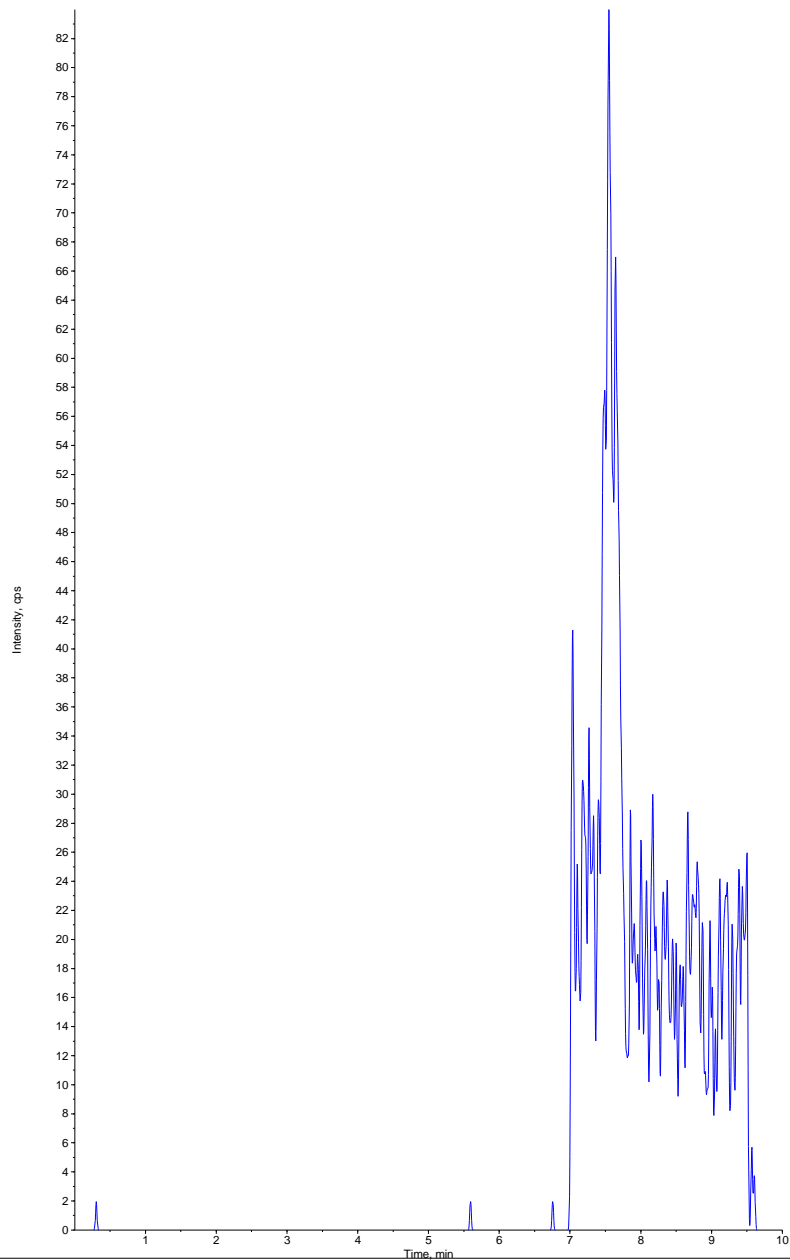
Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.53 min
Area: 263000 counts
Height: 22000 cps
Start Time: 6.98 min
End Time: 8.40 min

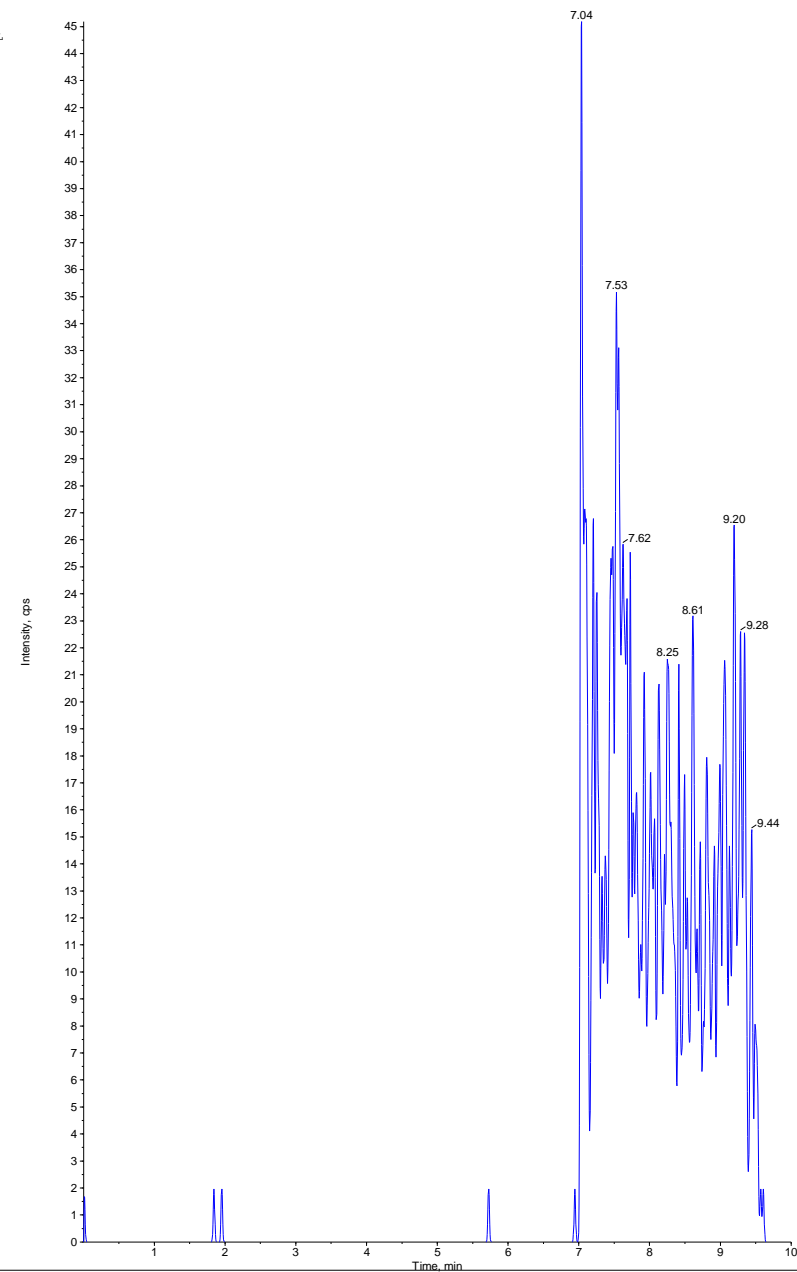


Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-09" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "" Annotation: ""
Sample Index: 14
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/11/2019
Acq. Time: 07:34:08 PM
Modified: No

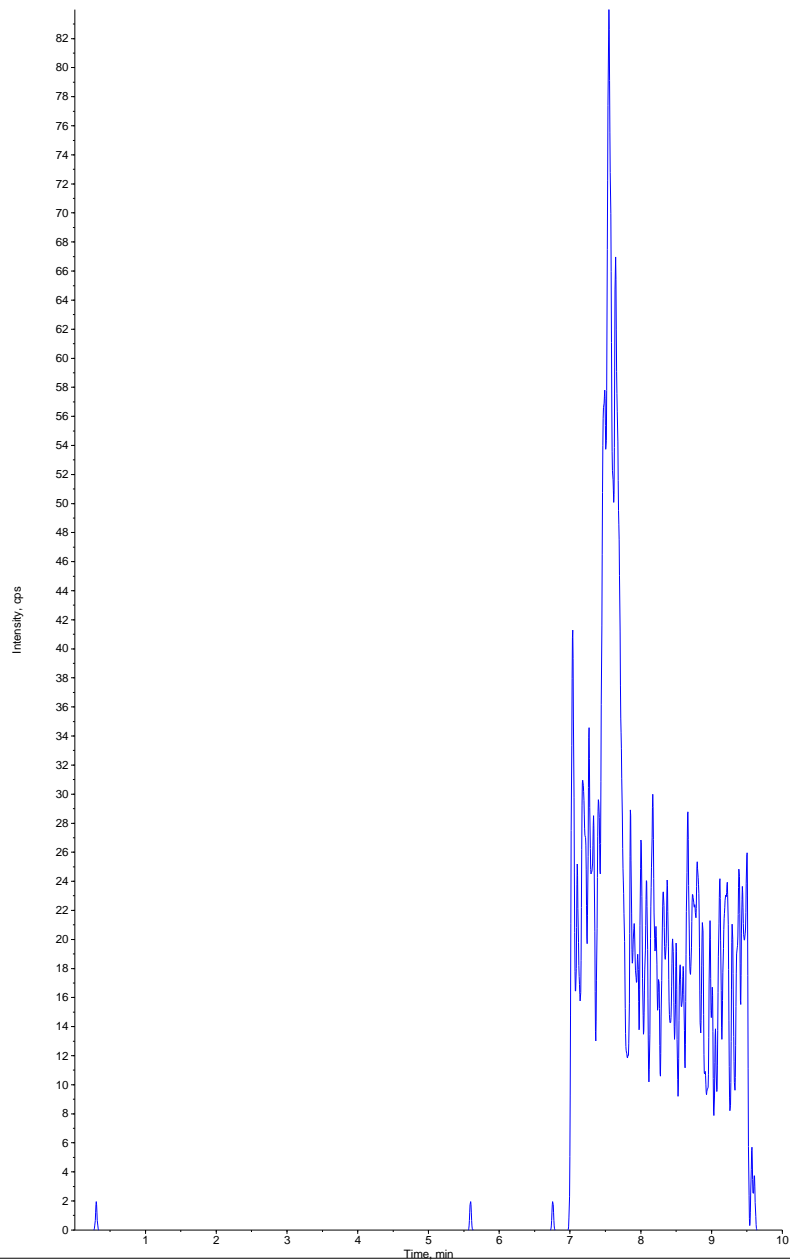


Sample Name: "L1957339-09" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "" Annotation: ""
Sample Index: 14
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/11/2019
Acq. Time: 07:34:08 PM
Modified: No



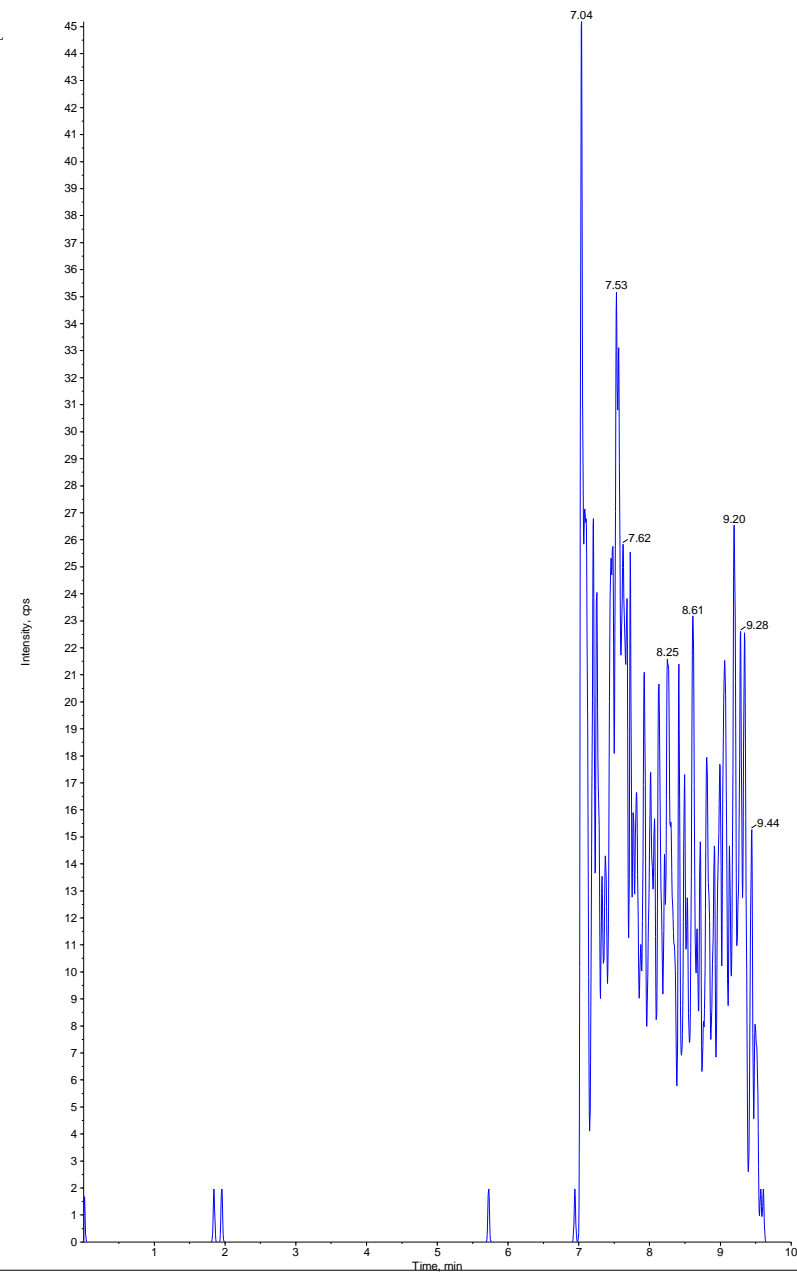
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-09" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "" Annotation: ""
Sample Index: 14
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/11/2019
Acq. Time: 07:34:08 PM
Modified: Yes



Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-09" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "" Annotation: ""
Sample Index: 14
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/11/2019
Acq. Time: 07:34:08 PM
Modified: No

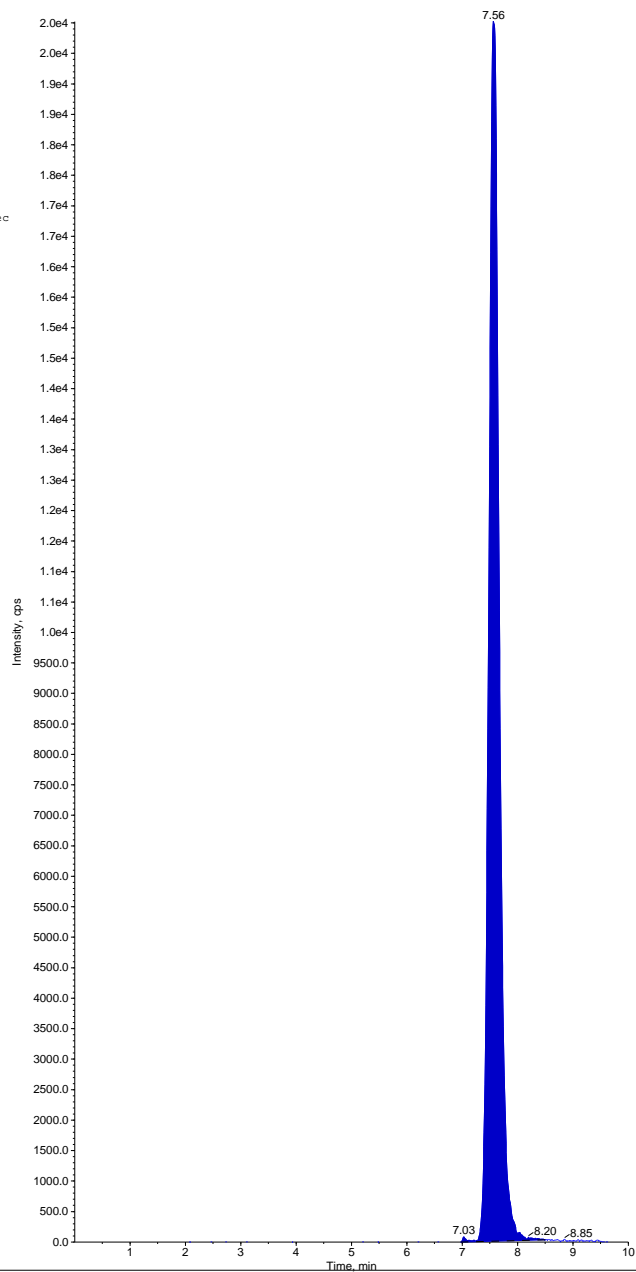


Sample Name: "L1957339-09" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

Sample Index: 14
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 07:34:08 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.56 min
Area: 263000 counts
Height: 20000 cps
Start Time: 6.97 min
End Time: 8.50 min



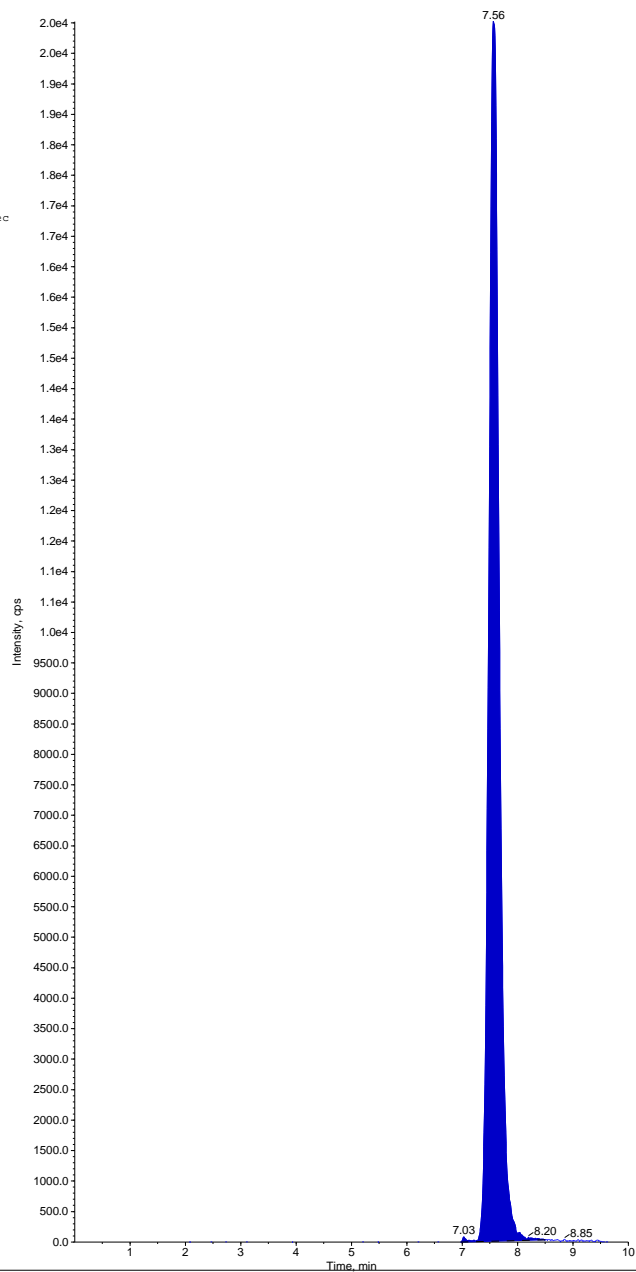
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-09" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

Sample Index: 14
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 07:34:08 PM

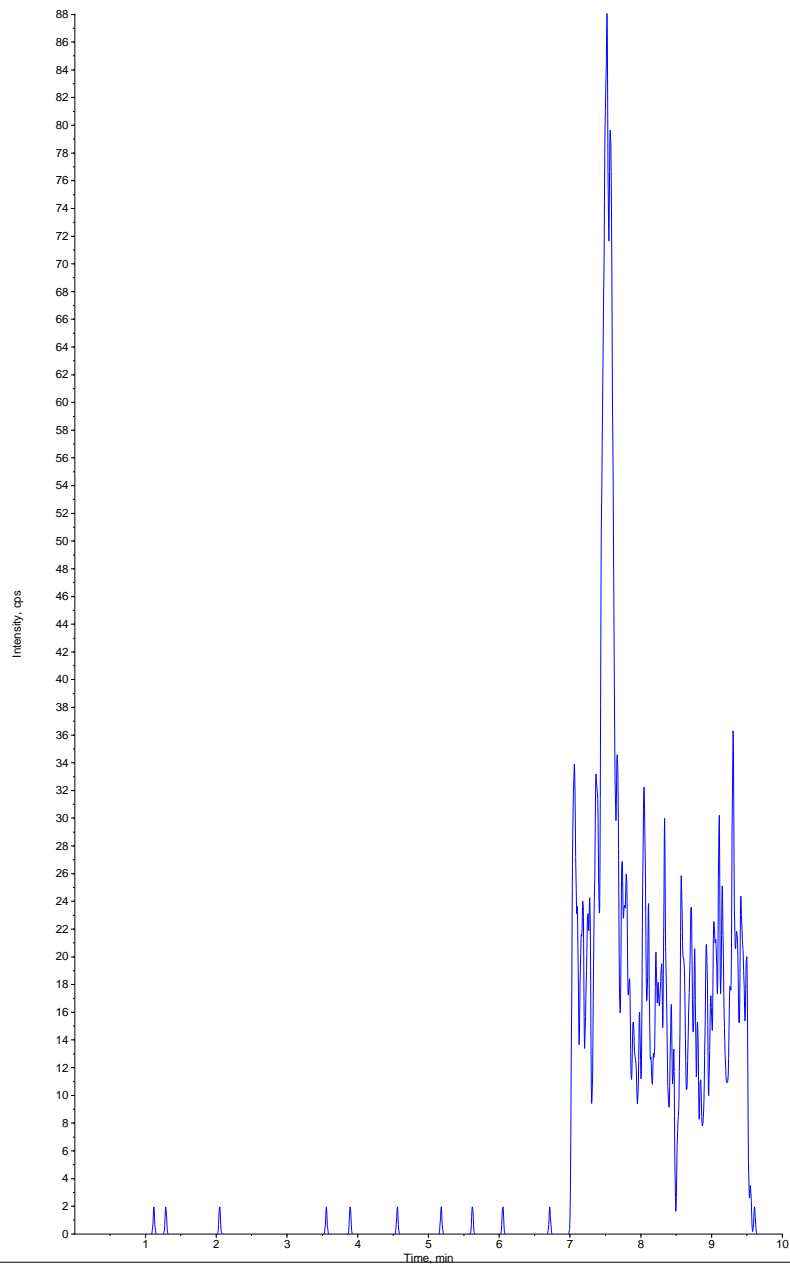
Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.56 min
Area: 263000 counts
Height: 20000 cps
Start Time: 6.97 min
End Time: 8.50 min

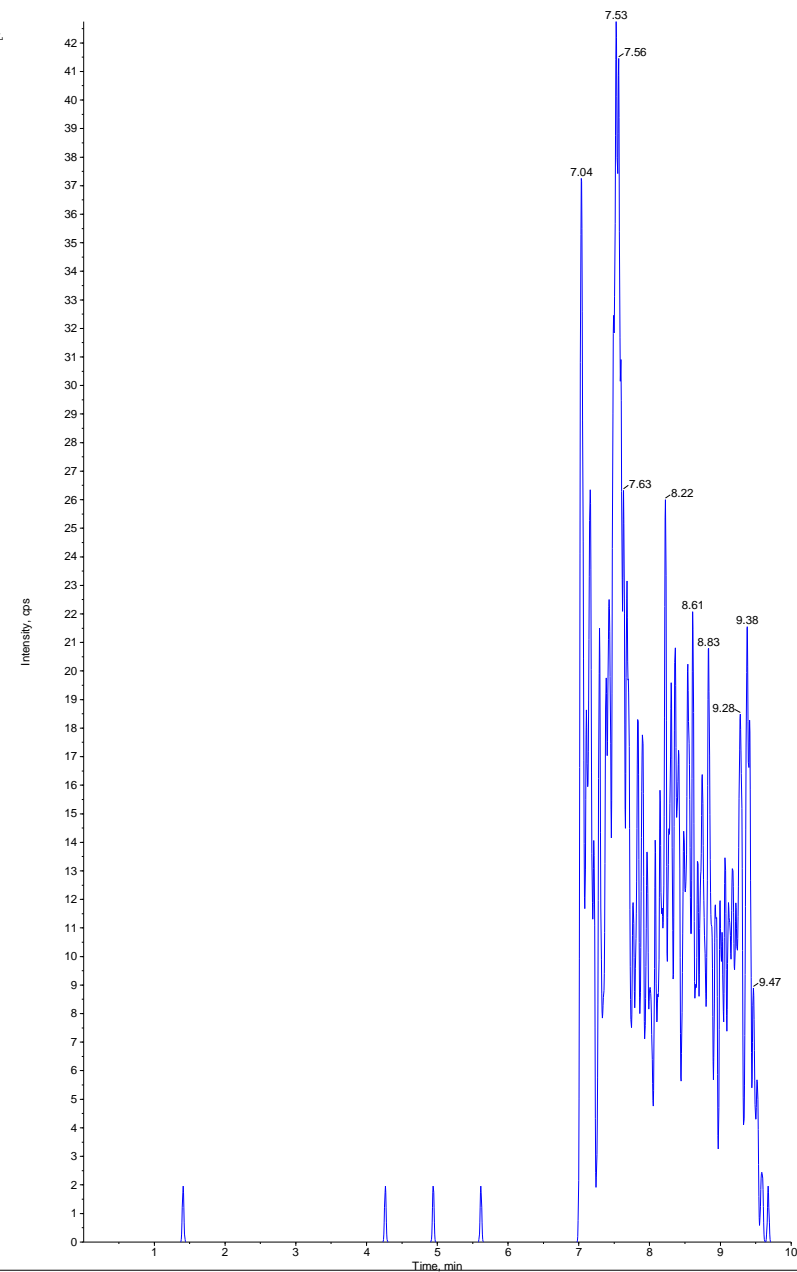


Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-11" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "" Annotation: ""
Sample Index: 15
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/11/2019
Acq. Time: 07:46:06 PM
Modified: No

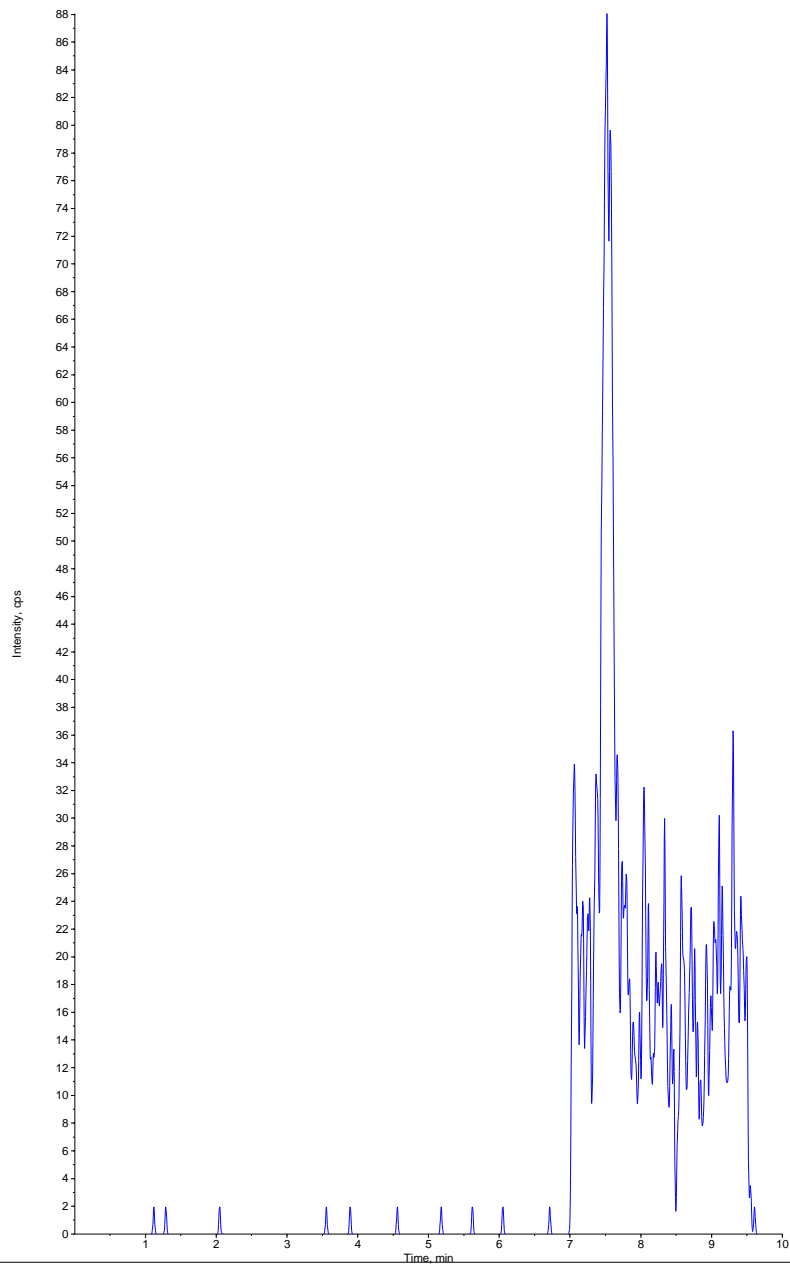


Sample Name: "L1957339-11" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "" Annotation: ""
Sample Index: 15
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/11/2019
Acq. Time: 07:46:06 PM
Modified: No

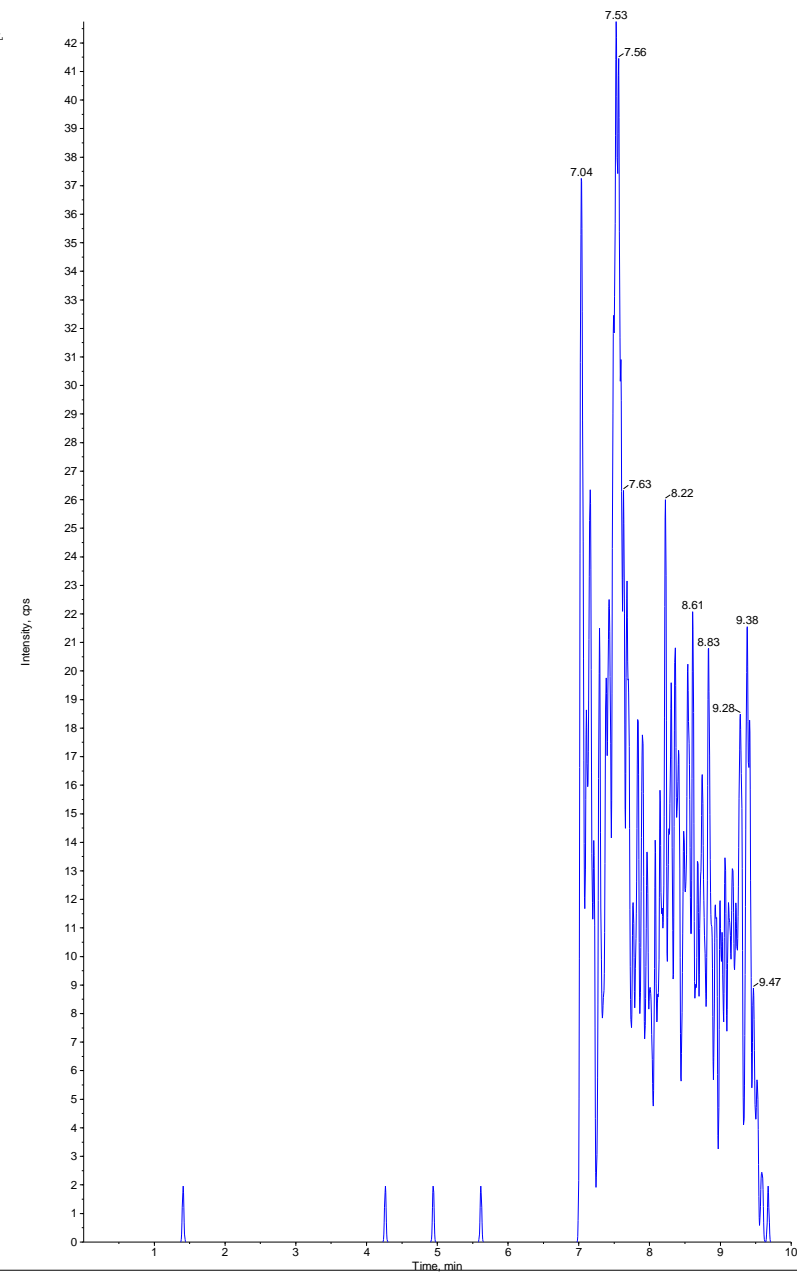


Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-11" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "" Annotation: ""
Sample Index: 15
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/11/2019
Acq. Time: 07:46:06 PM
Modified: Yes



Sample Name: "L1957339-11" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "" Annotation: ""
Sample Index: 15
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/11/2019
Acq. Time: 07:46:06 PM
Modified: No



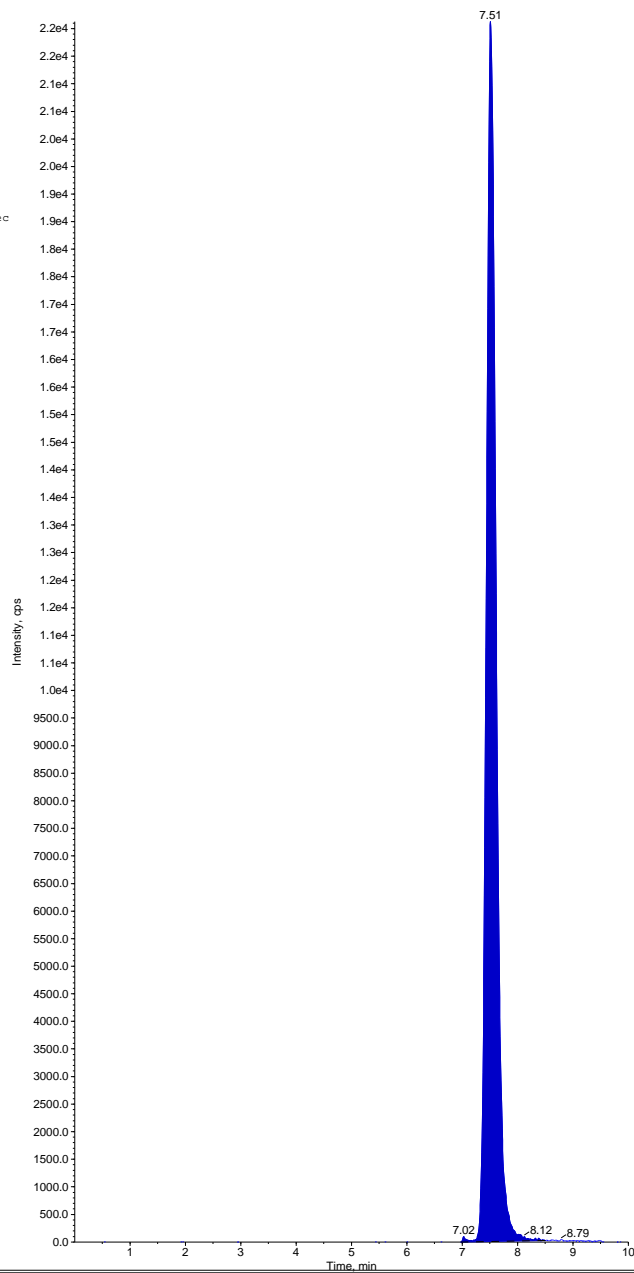
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-11" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

Sample Index: 15
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 07:46:06 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.51 min
Area: 272000 counts
Height: 22100 cps
Start Time: 6.97 min
End Time: 8.50 min



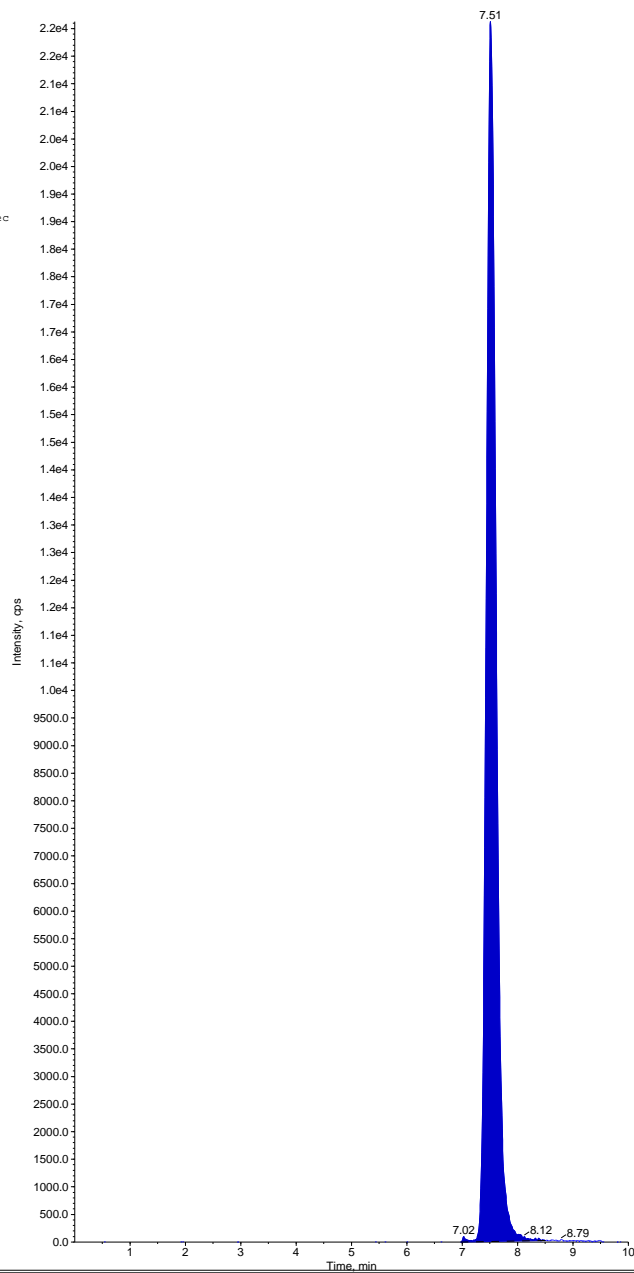
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-11" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

Sample Index: 15
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 07:46:06 PM

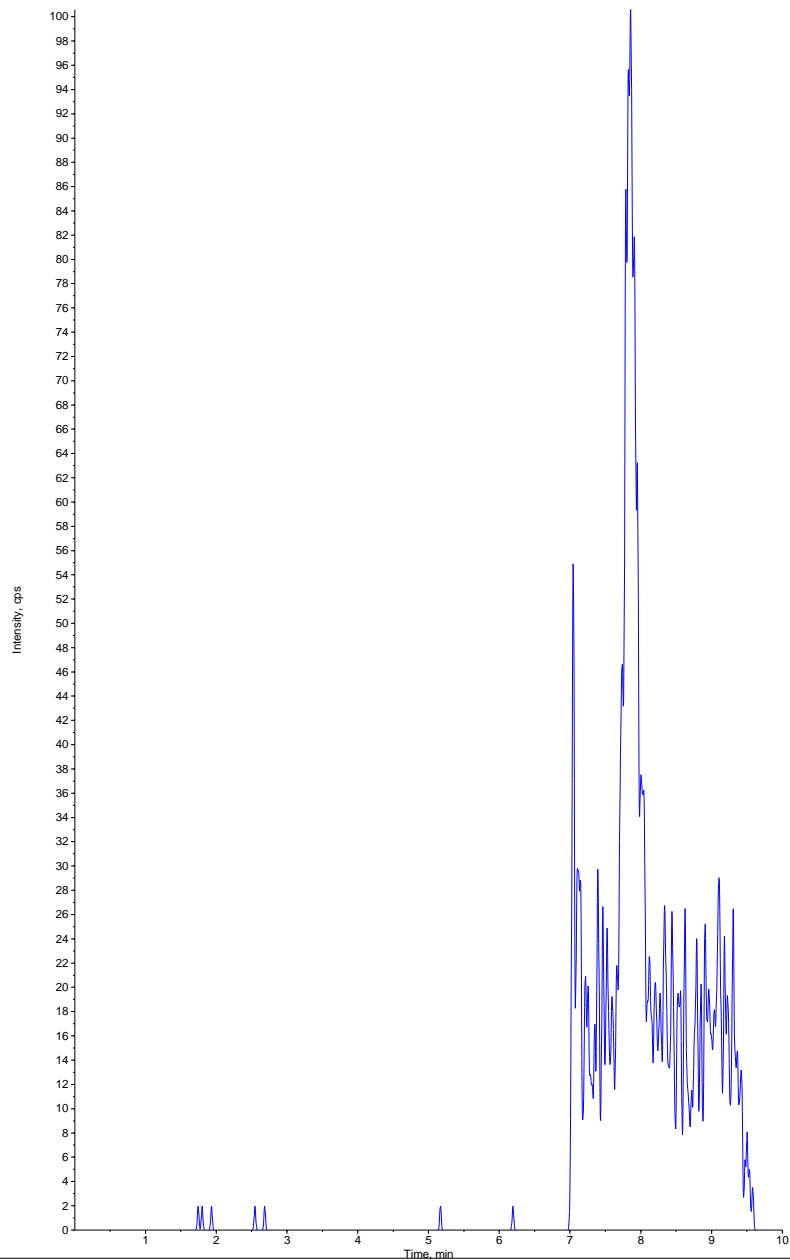
Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.51 min
Area: 272000 counts
Height: 22100 cps
Start Time: 6.97 min
End Time: 8.50 min

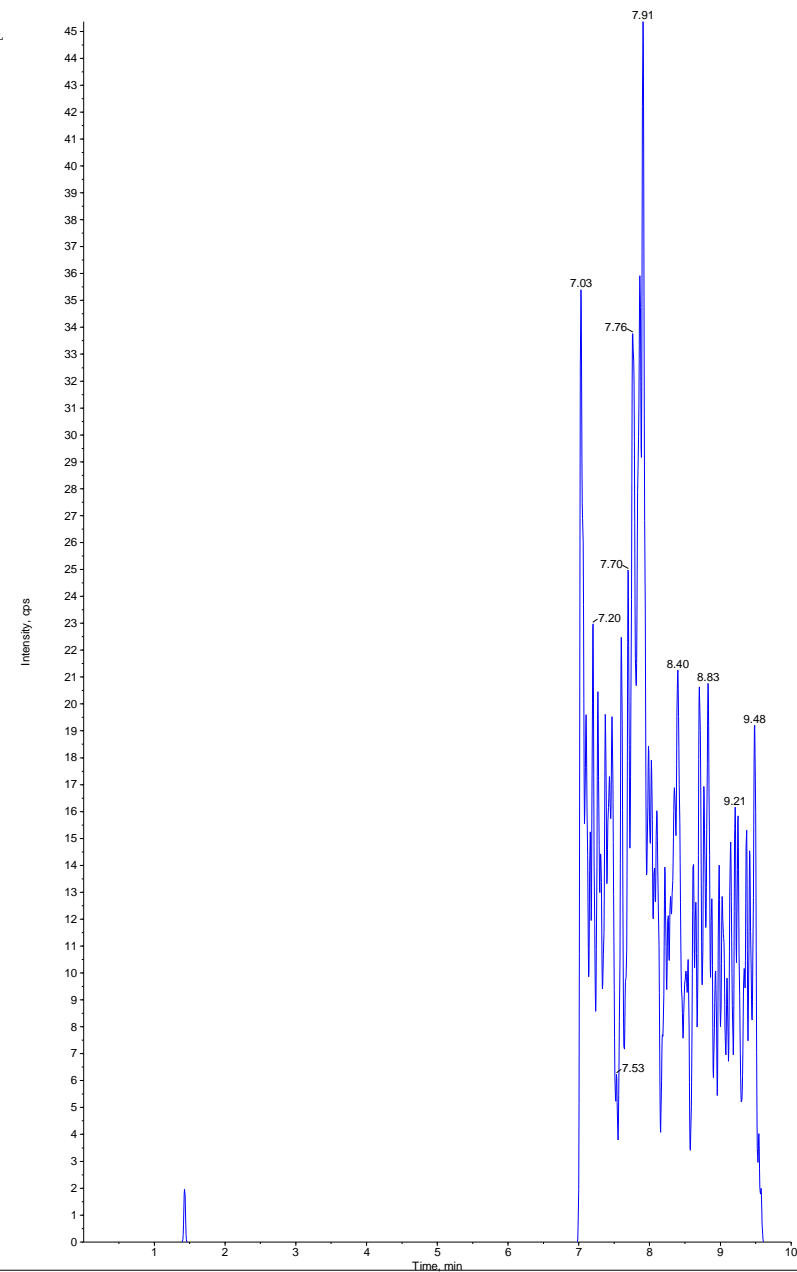


Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-12" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "" Annotation: ""
Sample Index: 16
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/11/2019
Acq. Time: 07:58:04 PM
Modified: No

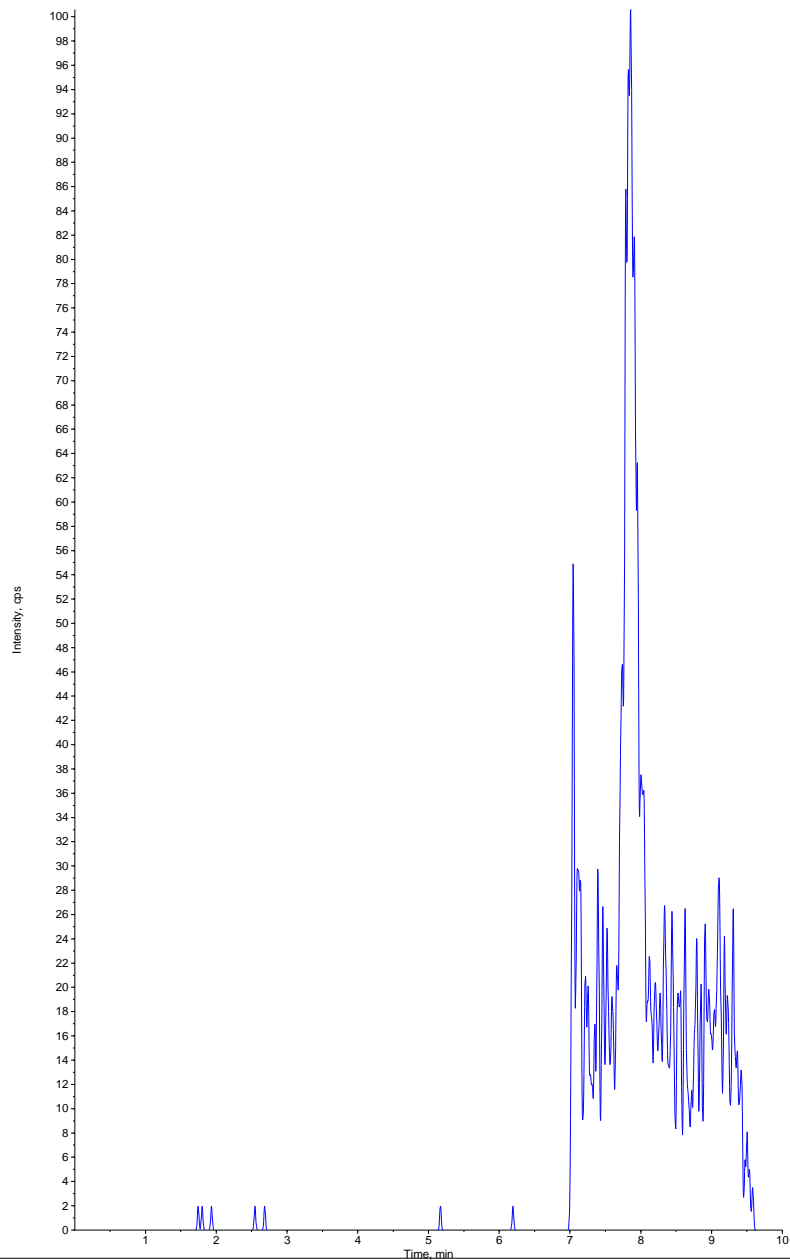


Sample Name: "L1957339-12" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "" Annotation: ""
Sample Index: 16
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/11/2019
Acq. Time: 07:58:04 PM
Modified: No

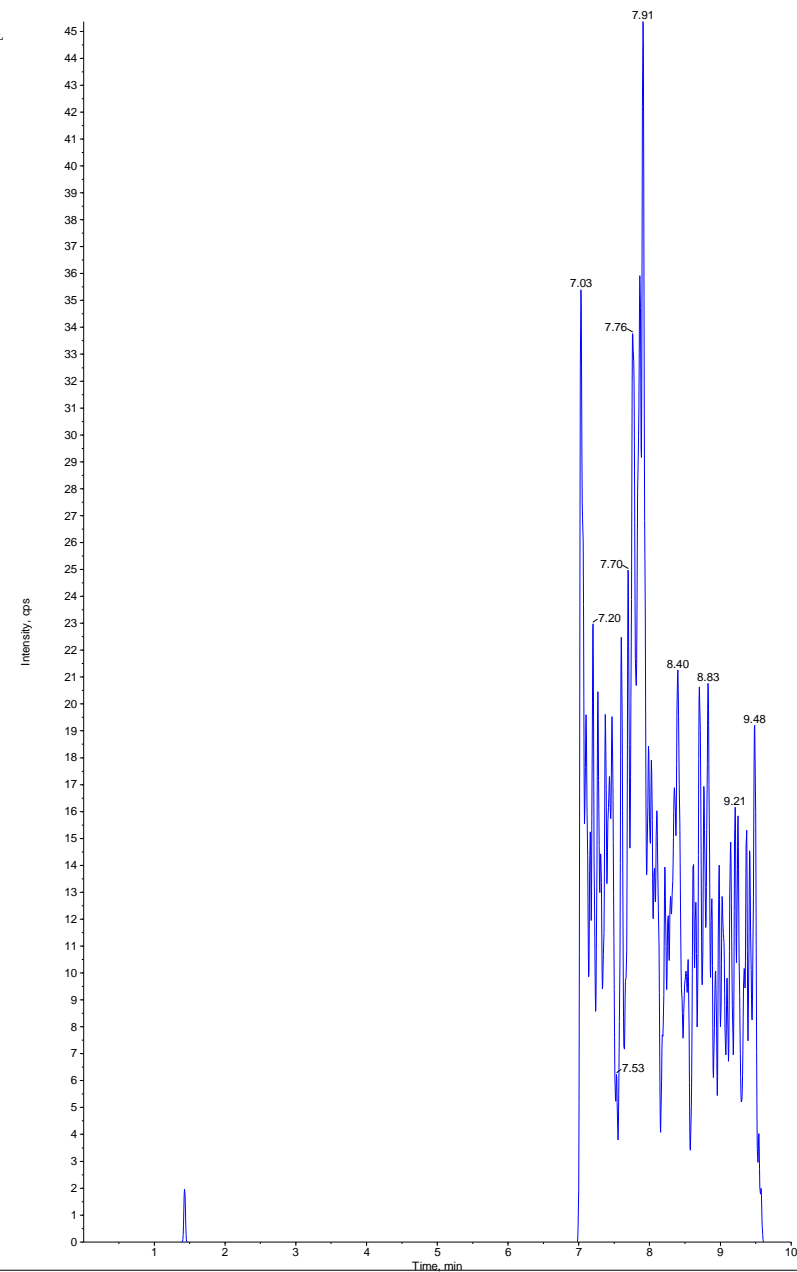


Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-12" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "" Annotation: ""
Sample Index: 16
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/11/2019
Acq. Time: 07:58:04 PM
Modified: Yes



Sample Name: "L1957339-12" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "" Annotation: ""
Sample Index: 16
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/11/2019
Acq. Time: 07:58:04 PM
Modified: No



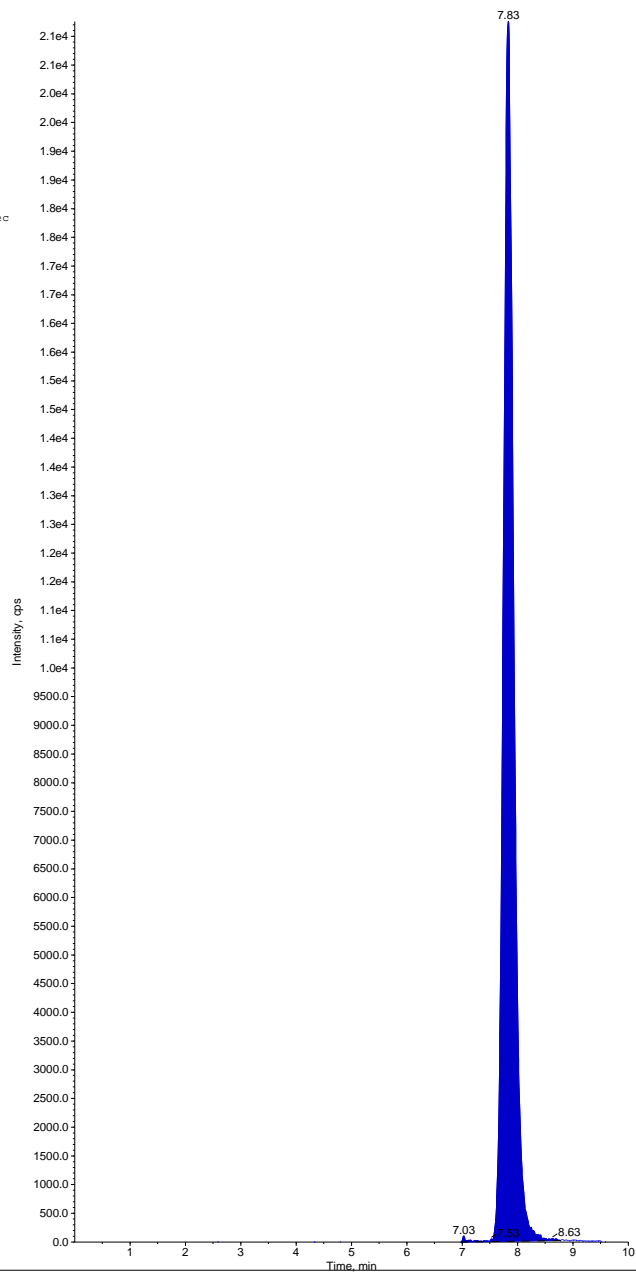
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-12" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

Sample Index: 16
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 07:58:04 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.83 min
Area: 279000 counts
Height: 21200 cps
Start Time: 6.97 min
End Time: 8.77 min



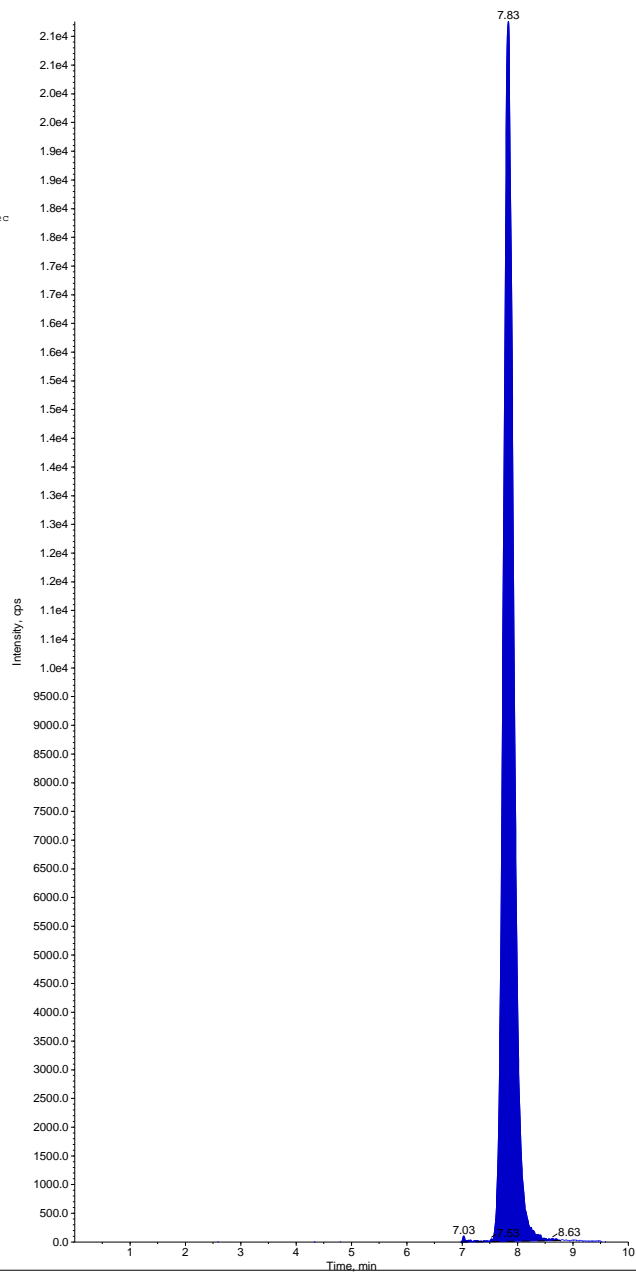
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-12" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

Sample Index: 16
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 07:58:04 PM

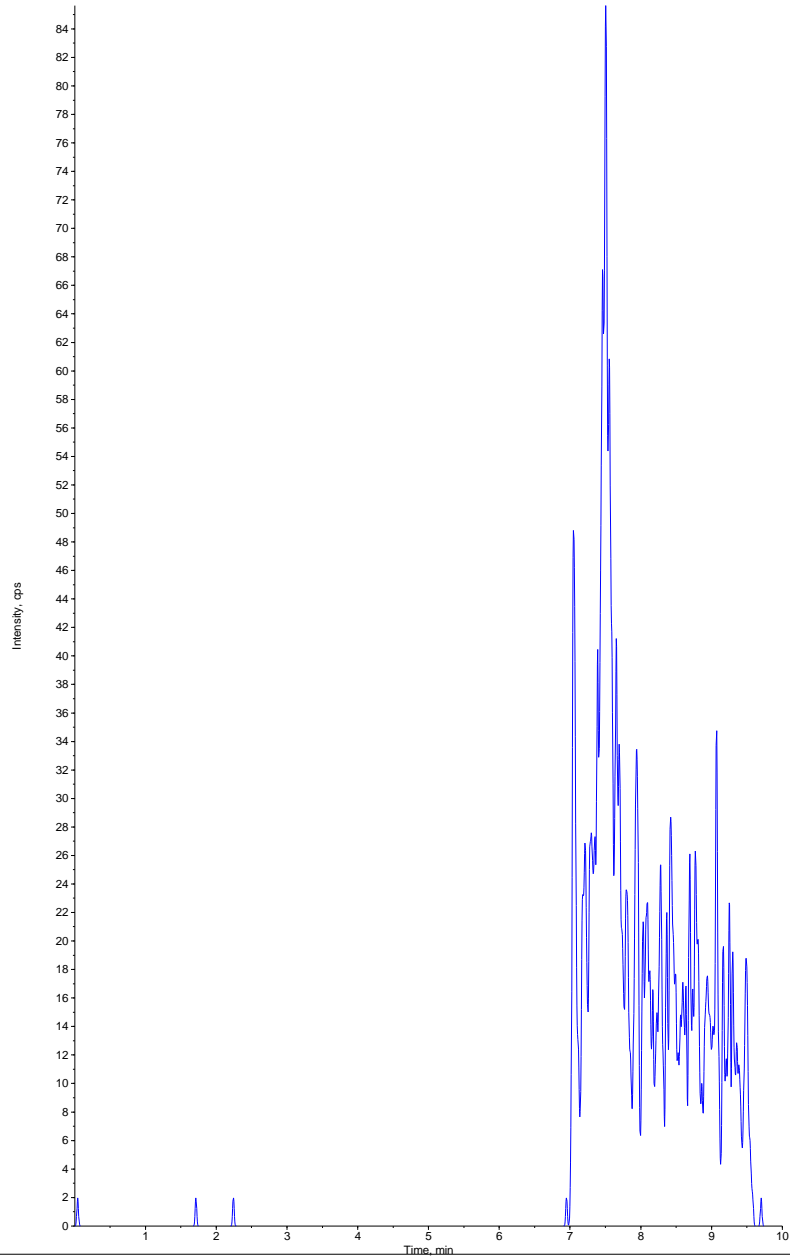
Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.83 min
Area: 279000 counts
Height: 21200 cps
Start Time: 6.97 min
End Time: 8.77 min



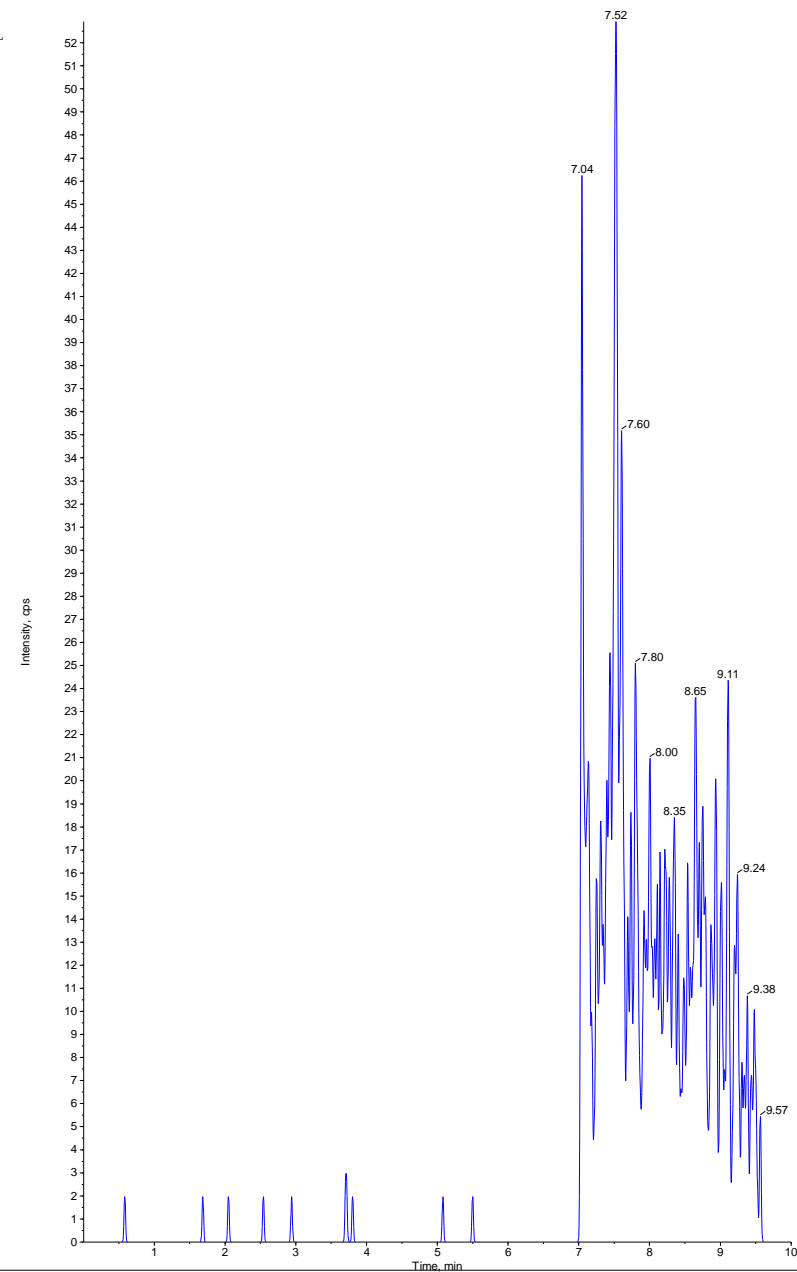
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-13" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "" Annotation: ""
Sample Index: 17
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/11/2019
Acq. Time: 08:10:02 PM
Modified: No

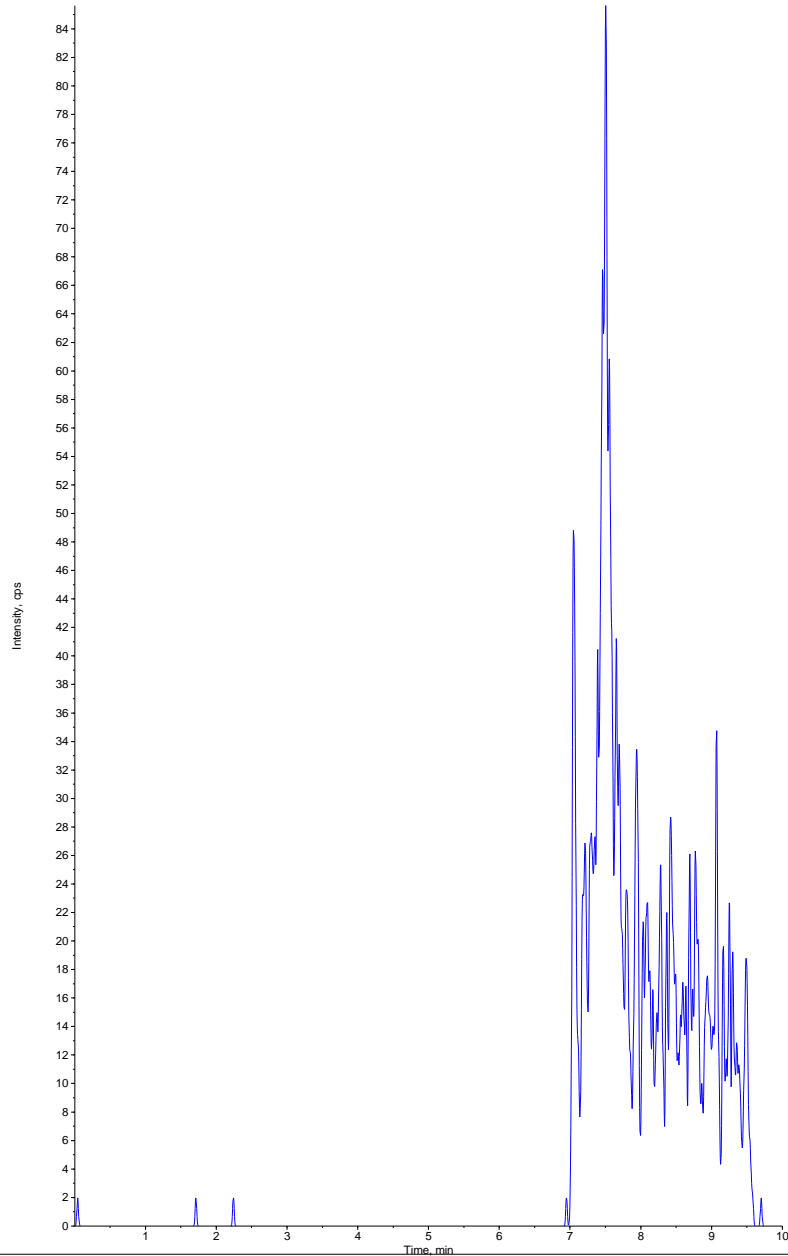


Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-13" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "" Annotation: ""
Sample Index: 17
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/11/2019
Acq. Time: 08:10:02 PM
Modified: No

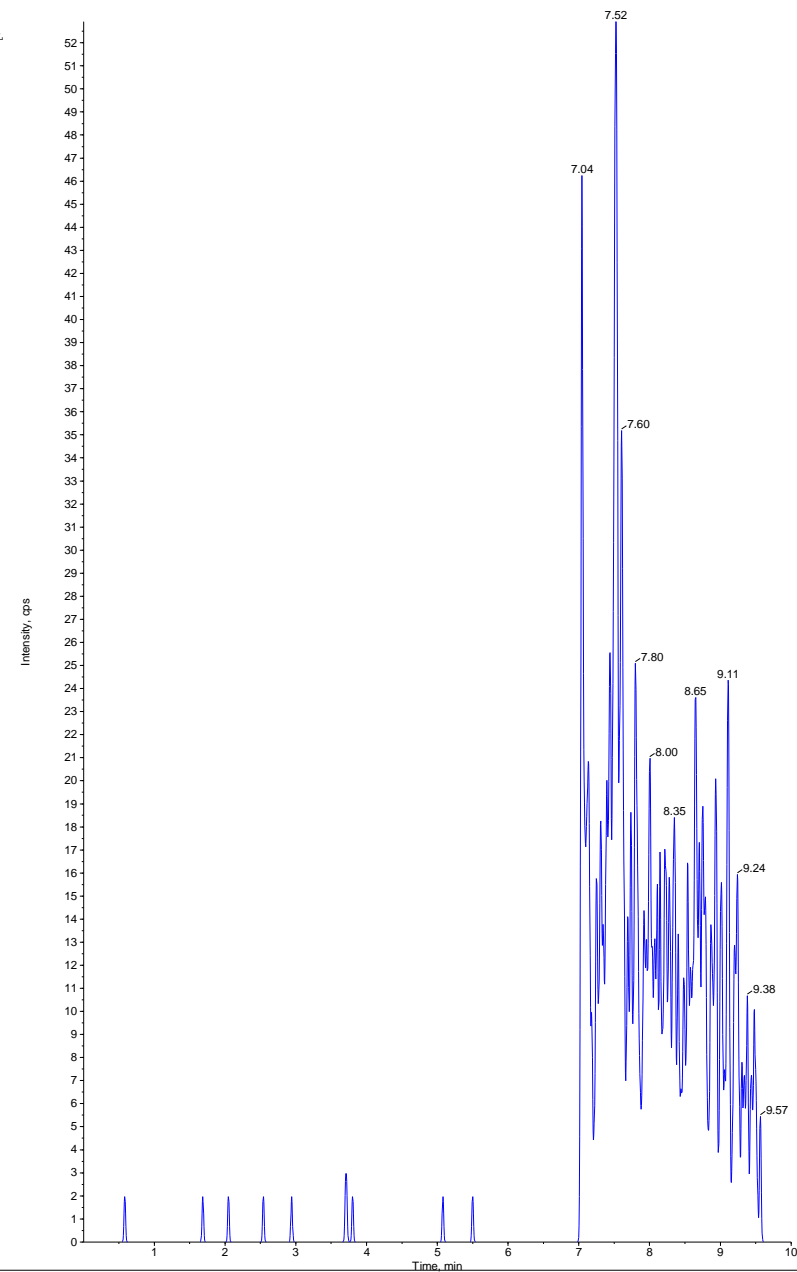


Sample Name: "L1957339-13" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "" Annotation: ""
Sample Index: 17
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/11/2019
Acq. Time: 08:10:02 PM
Modified: Yes

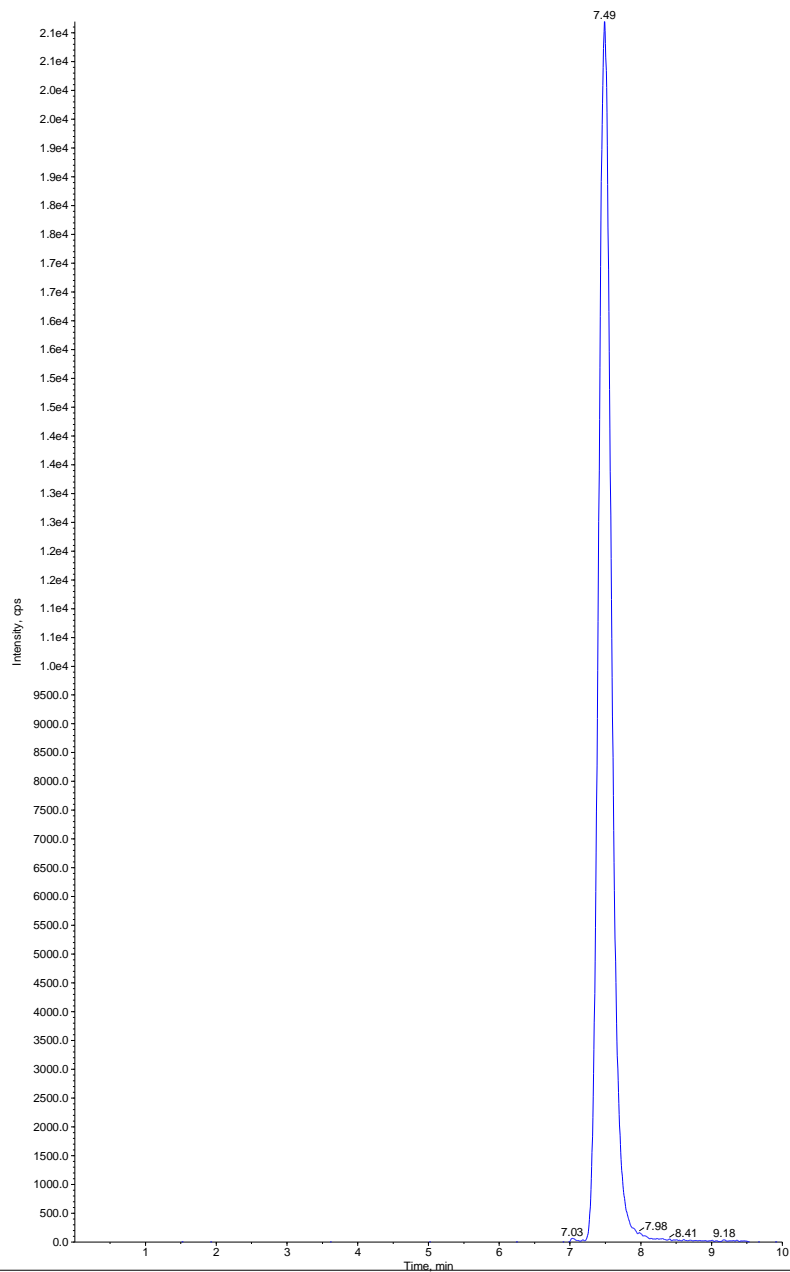


Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "L1957339-13" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "" Annotation: ""
Sample Index: 17
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/11/2019
Acq. Time: 08:10:02 PM
Modified: Yes

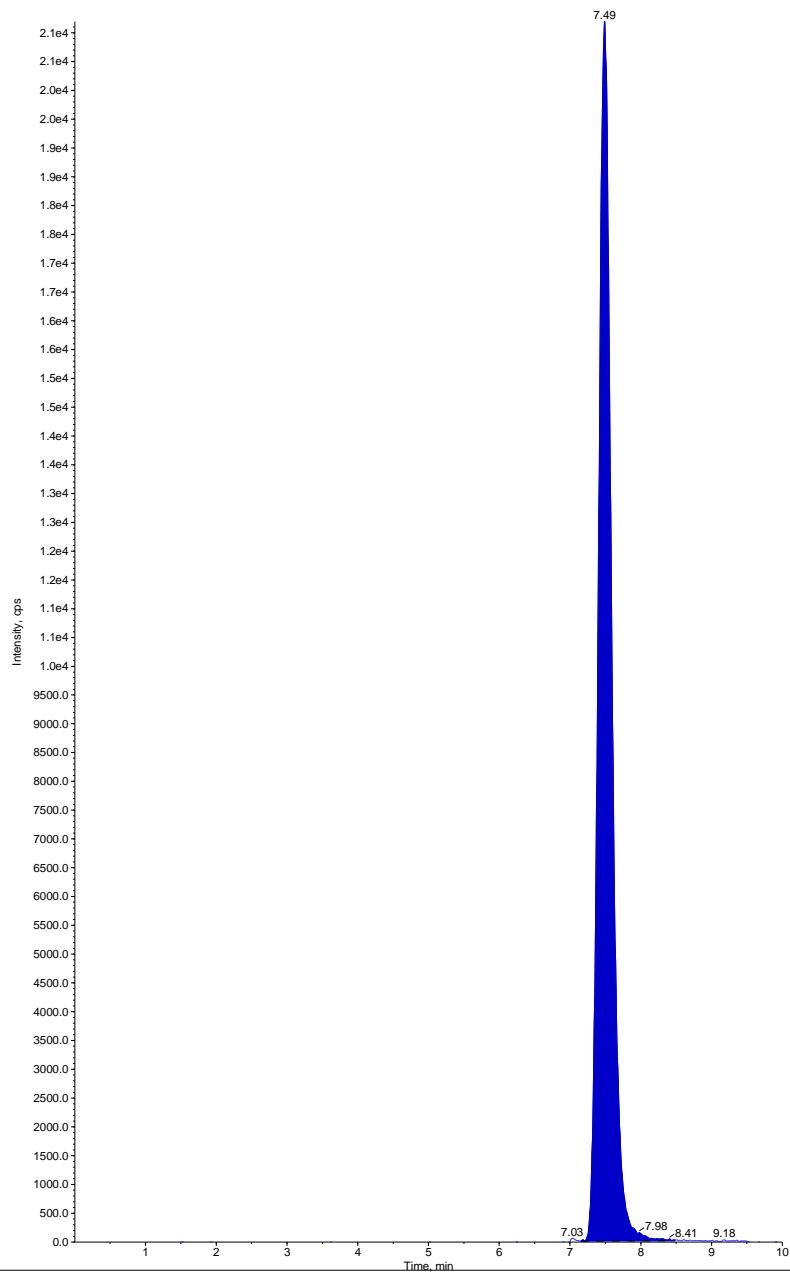


Sample Name: "11957339-13" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""
Sample Index: 17
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 08:10:02 PM
Modified: No

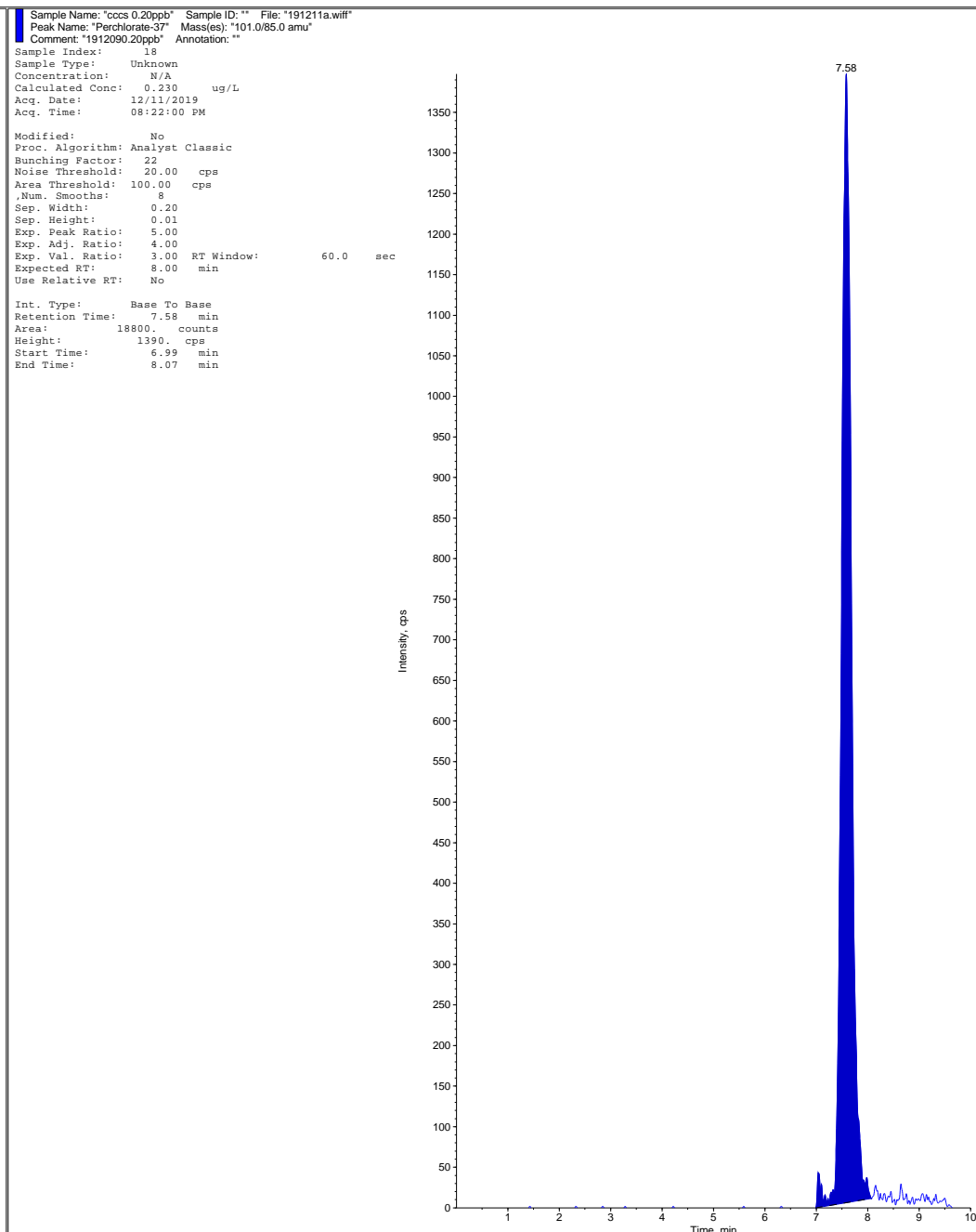
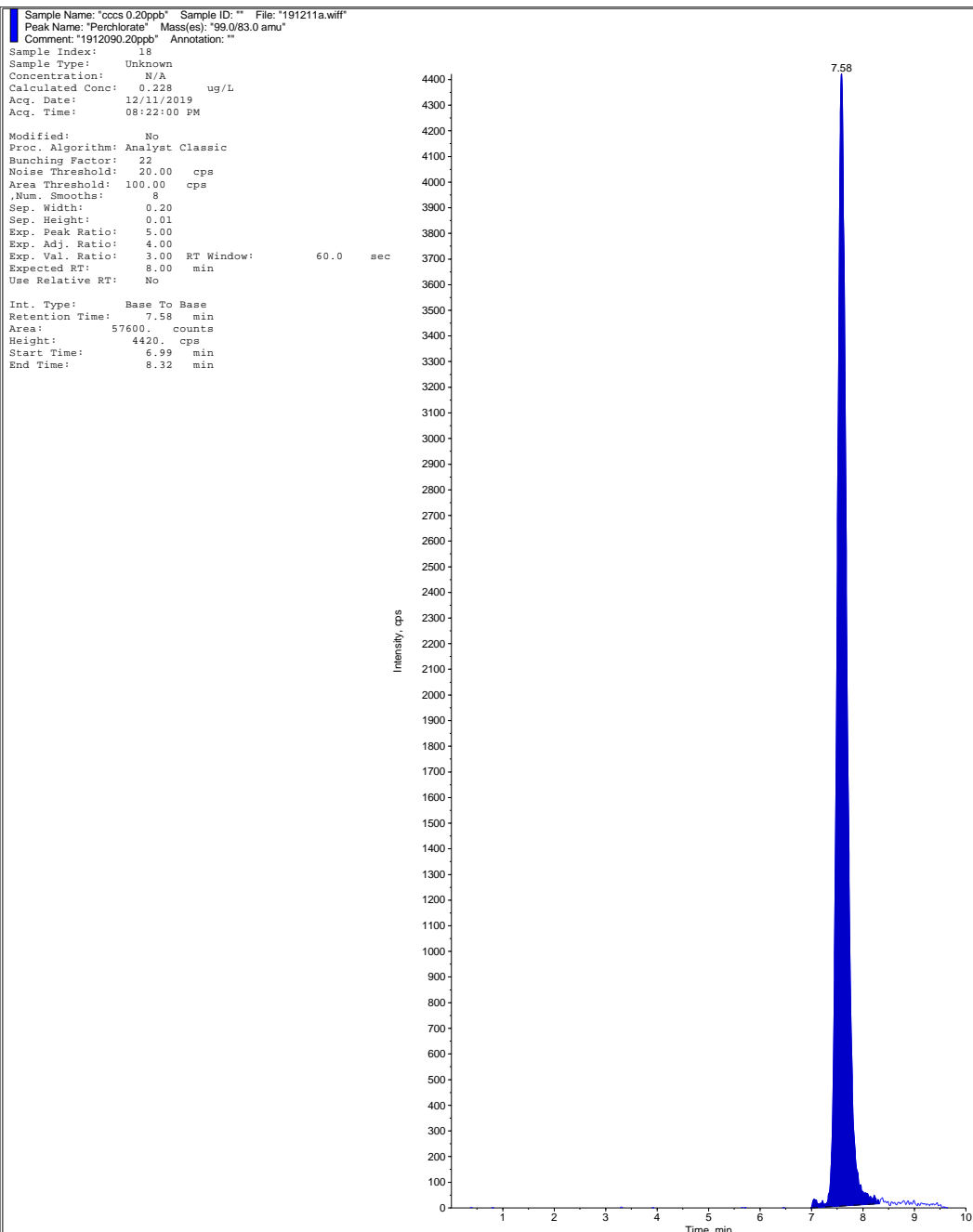


Collected by: N/A
Electronic Signature: no
Operator: Administrator

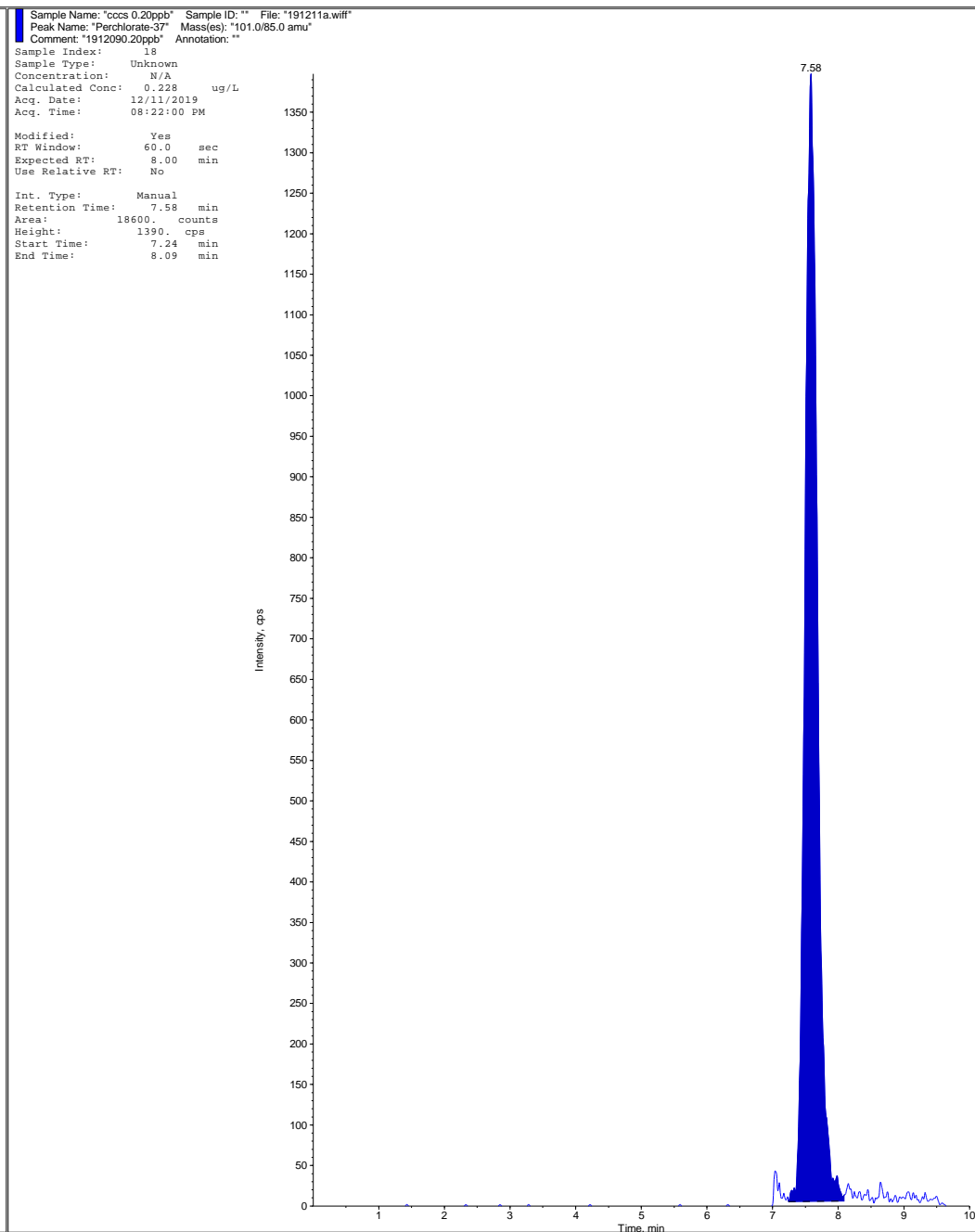
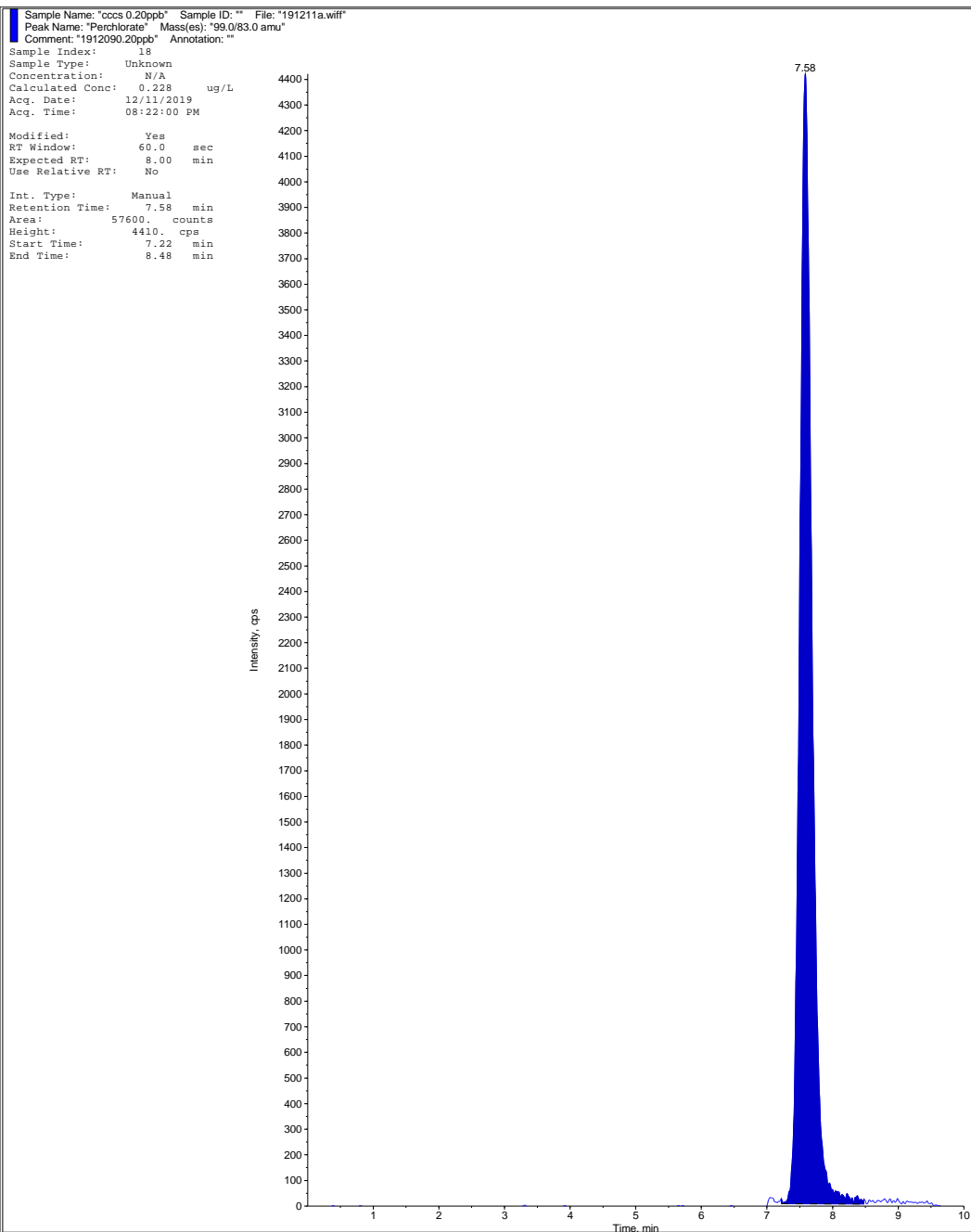
Sample Name: "11957339-13" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.069.0 amu"
Comment: "" Annotation: ""
Sample Index: 17
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 08:10:02 PM
Modified: Yes
RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No
Int. Type: Manual
Retention Time: 7.49 min
Area: 273000 counts
Height: 21200 cps
Start Time: 7.15 min
End Time: 8.48 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator



Collected by: N/A
Electronic Signature: no
Operator: Administrator



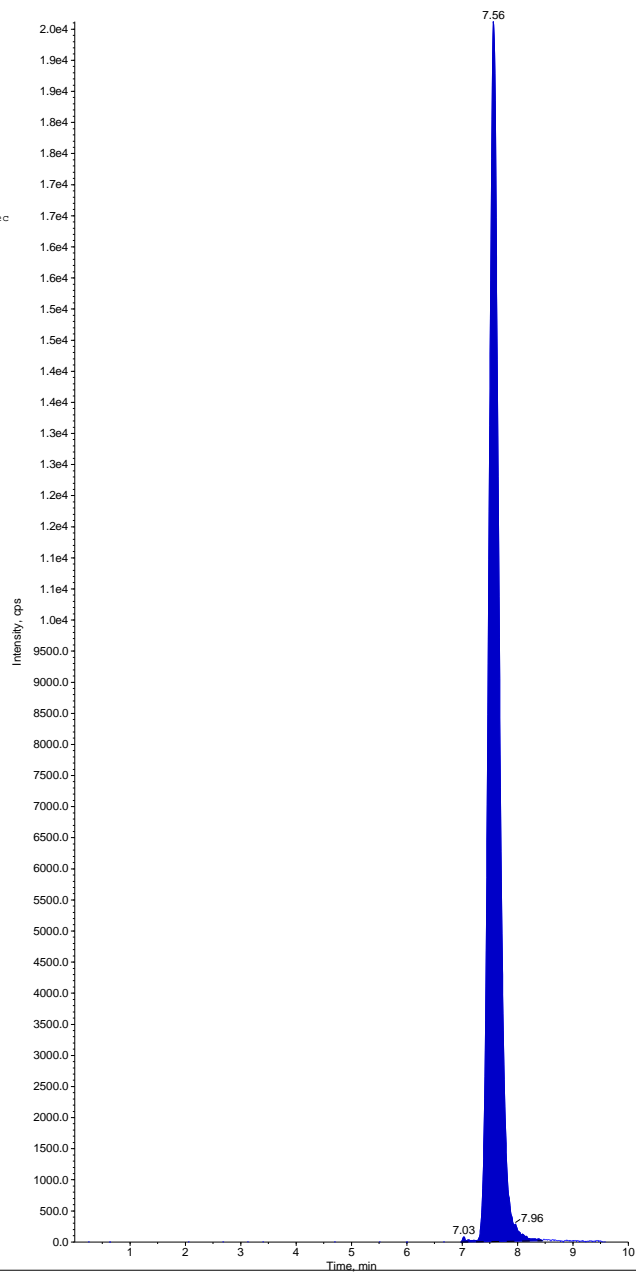
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'cccs 0.20ppb' Sample ID: '' File: '191211a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: '1912090.20ppb' Annotation: ''

Sample Index: 18
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 08:22:00 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.56 min
Area: 253000 counts
Height: 19600 cps
Start Time: 6.97 min
End Time: 8.45 min



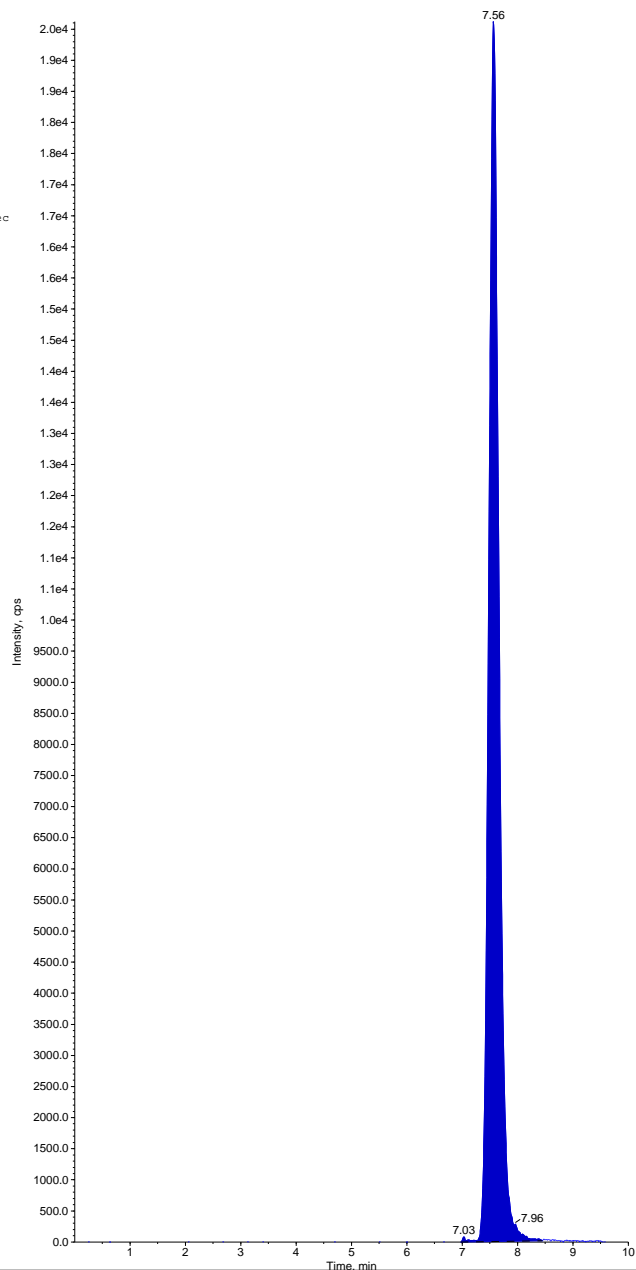
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: 'cccc 0.20ppb' Sample ID: '' File: '191211a.wiff'
Peak Name: 'Perchlorate-O18(S)' Mass(es): '107.089.0 amu'
Comment: '1912090.20ppb' Annotation: ''

Sample Index: 18
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 08:22:00 PM

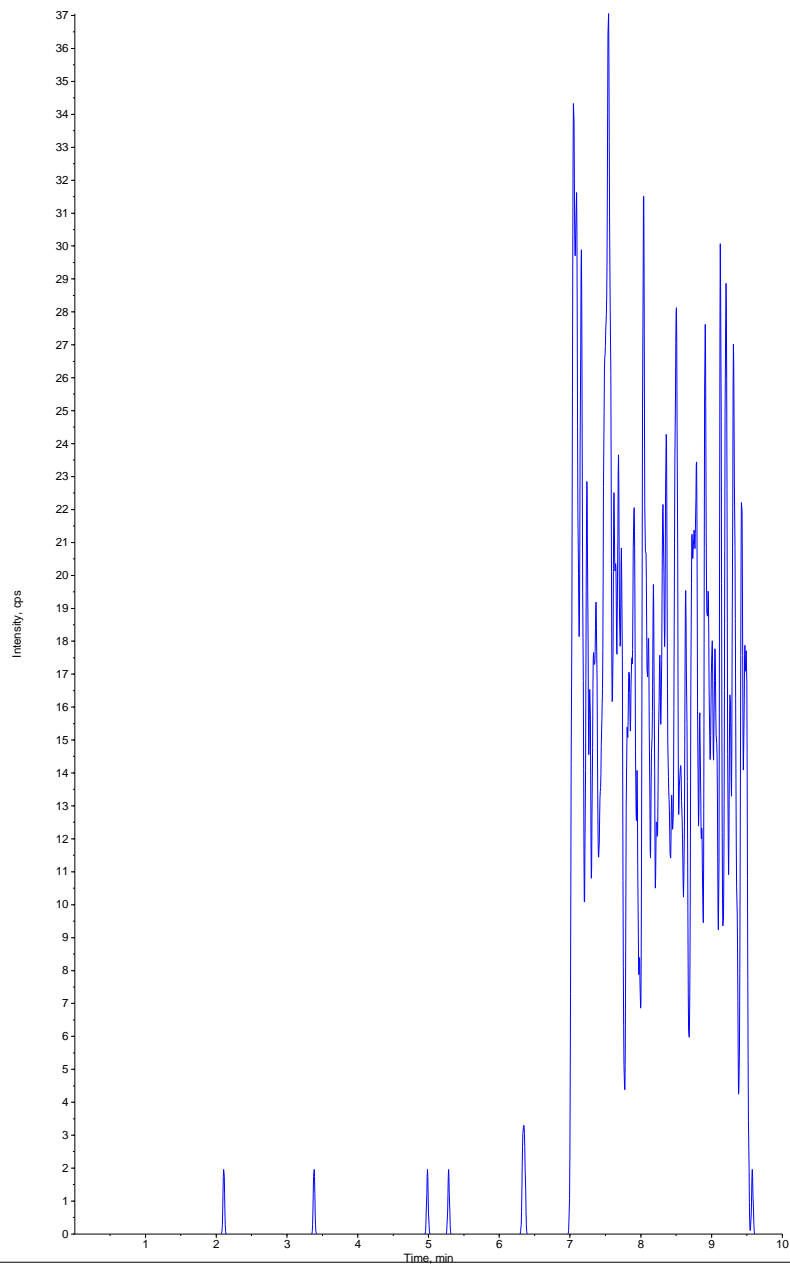
Modified: Yes
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.56 min
Area: 253000 counts
Height: 19600 cps
Start Time: 6.97 min
End Time: 8.45 min

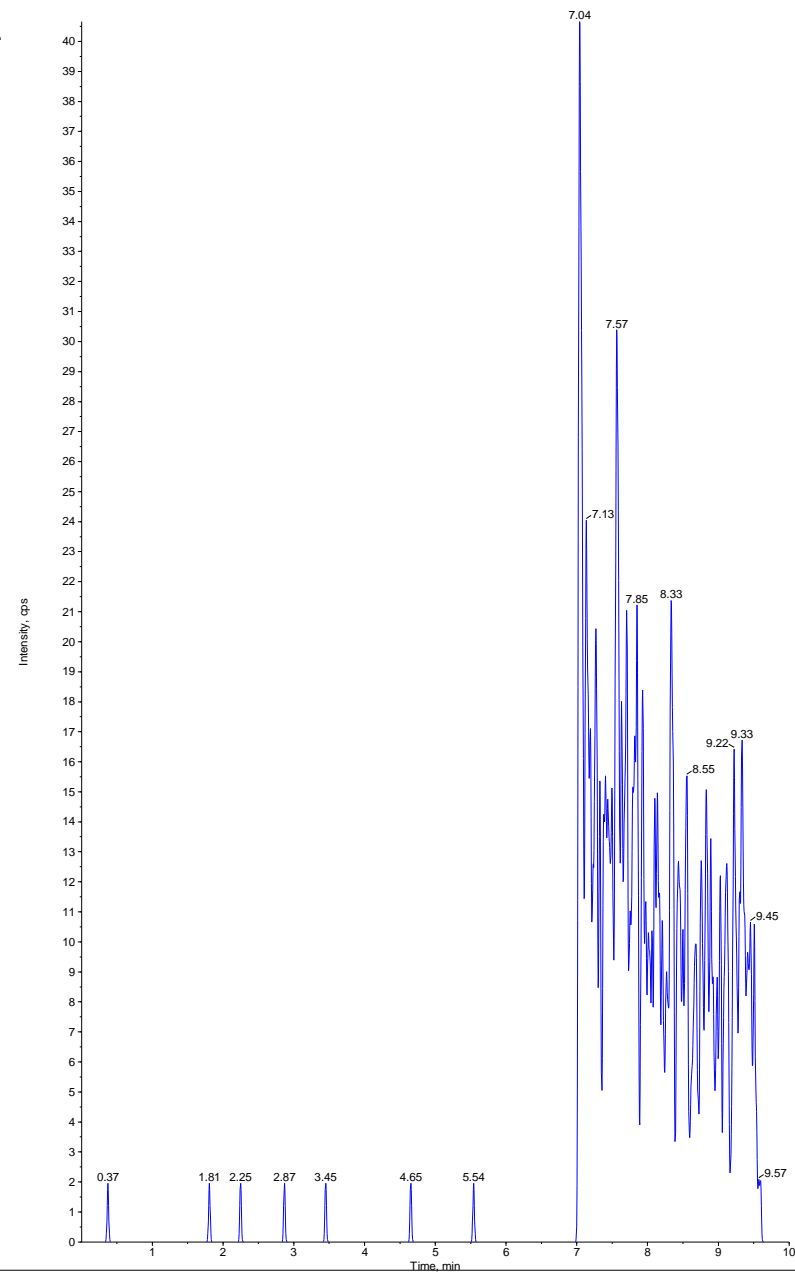


Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "blank04 is" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "" Annotation: ""
Sample Index: 19
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/11/2019
Acq. Time: 08:33:57 PM
Modified: No

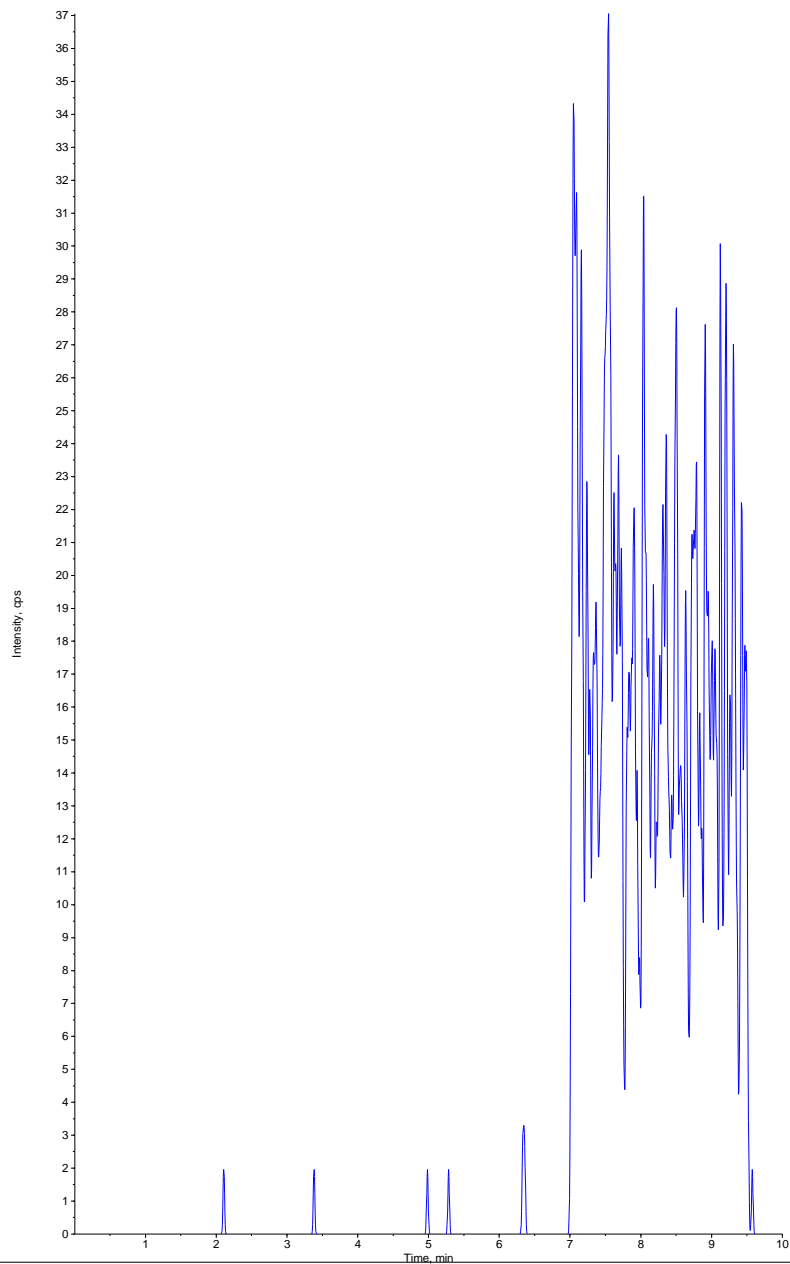


Sample Name: "blank04 is" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "" Annotation: ""
Sample Index: 19
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/11/2019
Acq. Time: 08:33:57 PM
Modified: No

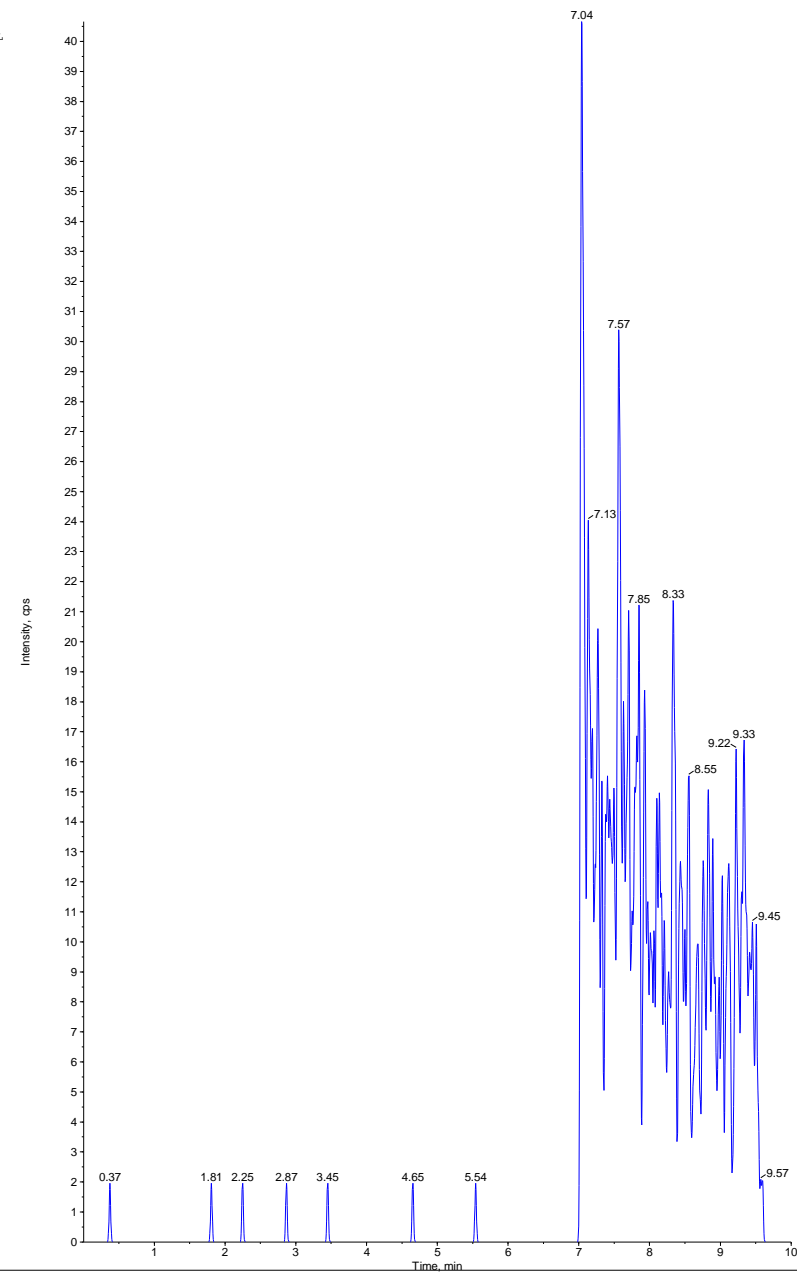


Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "blank04 is" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate" Mass(es): "99.0/83.0 amu"
Comment: "" Annotation: ""
Sample Index: 19
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/11/2019
Acq. Time: 08:33:57 PM
Modified: No



Sample Name: "blank04 is" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-37" Mass(es): "101.0/85.0 amu"
Comment: "" Annotation: ""
Sample Index: 19
Sample Type: Unknown
Concentration: N/A
Calculated Conc: 0.00 ug/L
Acq. Date: 12/11/2019
Acq. Time: 08:33:57 PM
Modified: No



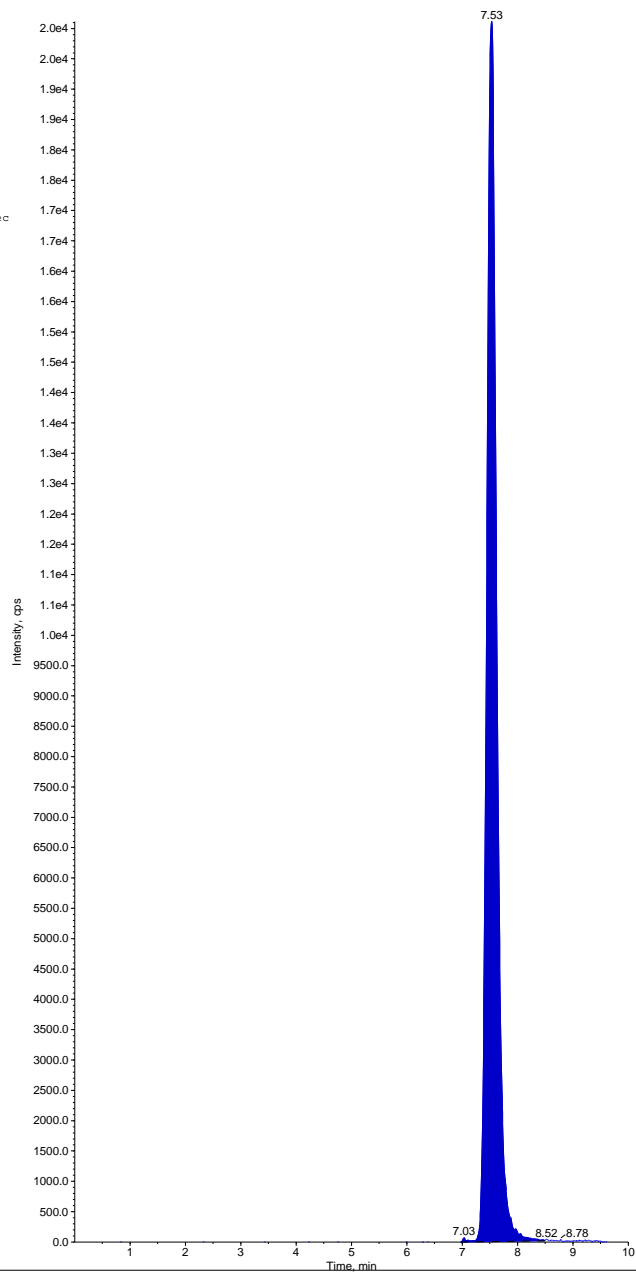
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "blank04 is" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-019(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

Sample Index: 19
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 08:33:57 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.53 min
Area: 254000 counts
Height: 20100 cps
Start Time: 6.97 min
End Time: 8.49 min



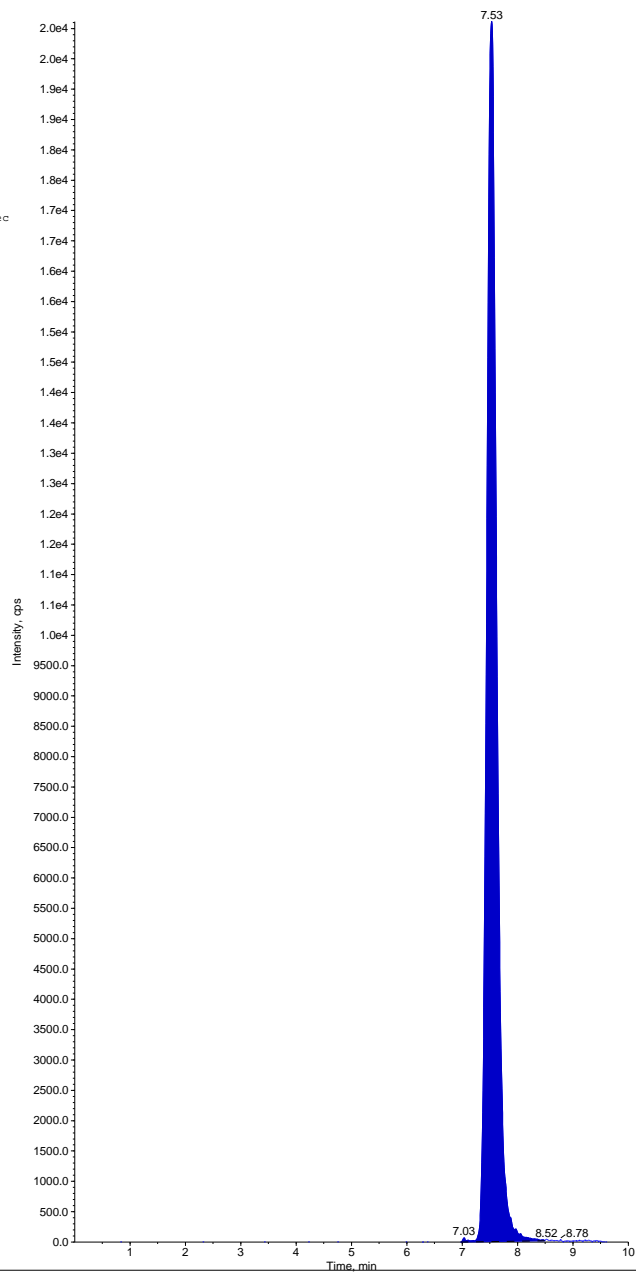
Collected by: N/A
Electronic Signature: no
Operator: Administrator

Sample Name: "blank04 is" Sample ID: "" File: "191211a.wiff"
Peak Name: "Perchlorate-O18(S)" Mass(es): "107.089.0 amu"
Comment: "" Annotation: ""

Sample Index: 19
Sample Type: Unknown
Concentration: 1.00 ug/L
Calculated Conc: N/A
Acq. Date: 12/11/2019
Acq. Time: 08:33:57 PM

Modified: No
Proc. Algorithm: Analyst Classic
Bunching Factor: 25
Noise Threshold: 20.00 cps
Area Threshold: 500.00 cps
, Num. Smoother: 8
Sep. Width: 0.20
Sep. Height: 0.01
Exp. Peak Ratio: 5.00
Exp. Adj. Ratio: 4.00
Exp. Val. Ratio: 3.00 RT Window: 60.0 sec
Expected RT: 8.00 min
Use Relative RT: No

Int. Type: Base To Base
Retention Time: 7.53 min
Area: 254000 counts
Height: 20100 cps
Start Time: 6.97 min
End Time: 8.49 min



Collected by: N/A
Electronic Signature: no
Operator: Administrator

QC Batch Sheet

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Dec 17 2019, 12:47 pm

Work Group: WG1321408 for Department: 32 GC/MS - Semivolatiles

Created: 16-DEC-19 Due: Operator: ss

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1957339-03	PDI-1138RAB-00-10-191118	S PERC-6860	SOIL	DONE	U	1216	1213	S0	Glass-A.25
L1957339-04	PDI-138RAB-00-10-191118	S PERC-6860	SOIL	DONE	U	1216	1213	S0	Glass-A.25
L1957339-05	PDI-138RAB-10-19.1-191118	S PERC-6860	SOIL	DONE	U	1216	1213	S0	Glass-A.25
L1957339-07	PDI-139RAB-00-10-191115	S PERC-6860	SOIL	DONE	U	1213	1213	S0	Glass-A.25
L1957339-08	PDI-139RAB-10-20-191115	S PERC-6860	SOIL	DONE	U	1213	1213	S0	Glass-A.25
L1957339-09	PDI-139RAB-20-25.5-191118	S PERC-6860	SOIL	DONE	U	1216	1213	S0	Glass-A.25
L1957339-11	PDI-145RAB-00-10-191114	S PERC-6860	SOIL	DONE	U	1212	1213	S0	Glass-A.25
L1957339-12	PDI-145RAB-10-20-191114	S PERC-6860	SOIL	DONE	U	1212	1213	S0	Glass-A.25
L1957339-13	PDI-145RAB-20-24.7-191114	S PERC-6860	SOIL	DONE	U	1212	1213	S0	Glass-A.25
WG1321406-1	Laboratory Method Bl	S PERC-6860	SOIL	DONE	U				
WG1321406-2	Laboratory Control S	S PERC-6860	SOIL	DONE	U				
WG1321406-3	Matrix Spike	S PERC-6860	SOIL	DONE	U				
WG1321406-4	Matrix Spike Duplica	S PERC-6860	SOIL	DONE	U				

Comments:

WG1321406-3 L1957339-11
 WG1321406-4 L1957339-11

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Dec 17 2019, 12:47 pm

Work Group: WG1321424 for Department: 32 GC/MS - Semivolatiles

Created: 16-DEC-19 Due: Operator: ss

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1957339-14	PDI-134RAB-00-10-191120	S PERC-6860	SOIL	DONE	U	1218	1213	S0	Glass-A.25
L1957339-15	PDI-134RAB-10-20-191120	S PERC-6860	SOIL	DONE	U	1218	1213	S0	Glass-A.25
L1957339-16	PDI-134RAB-20-25.5-191120	S PERC-6860	SOIL	DONE	U	1218	1213	S0	Glass-A.25
L1957339-18	PDI-135RAB-00-10-191120	S PERC-6860	SOIL	DONE	U	1218	1213	S0	Glass-A.25
L1957339-19	PDI-135RAB-10-20-191120	S PERC-6860	SOIL	DONE	U	1218	1213	S0	Glass-A.25
L1957339-20	PDI-135RAB-20-26.2-191120	S PERC-6860	SOIL	DONE	U	1218	1213	S0	Glass-A.25
L1957339-21	PDI-136RAB-00-10-191119	S PERC-6860	SOIL	DONE	U	1217	1213	S0	Glass-A.25
L1957339-22	PDI-136RAB-10-13.4-191119	S PERC-6860	SOIL	DONE	U	1217	1213	S0	Glass-A.25
L1957339-24	PDI-137RAB-00-10-191119	S PERC-6860	SOIL	DONE	U	1217	1213	S0	Glass-A.25
L1957339-25	PDI-137RAB-10-17.7-191119	S PERC-6860	SOIL	DONE	U	1217	1213	S0	Glass-A.25
WG1321415-1	Laboratory Method Bl	S PERC-6860	SOIL	DONE	U				
WG1321415-2	Laboratory Control S	S PERC-6860	SOIL	DONE	U				
WG1321415-3	Matrix Spike	S PERC-6860	SOIL	DONE	U				
WG1321415-4	Matrix Spike Duplica	S PERC-6860	SOIL	DONE	U				

Comments:

WG1321415-3 L1957339-19
 WG1321415-4 L1957339-19

Wet Chemistry

Total Solids / Percent Moisture Analysis

Sample Raw Data

WorkGroup WG1314901	Temp In (C) 105	Temp In (C)	Temp In (C)	Temp In (C)
Title Solids, Total	Temp Out (C) 105	Temp Out (C)	Temp Out (C)	Temp Out (C)
Method SM2540G	Time In 28-NOV-19 01:14	Time In	Time In	Time In
Instrument BALANCE#47	Time Out 29-NOV-19 20:04	Time Out	Time Out	Time Out

Sample #	Analysis Date	Analyst	Tare Weight (gm)	Gross Weight (gm)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Result %	Comment
L1957339-03	28-NOV-19 00:59	YAW ATTOBRAH	1.15	10.18	8.86				85.38	
L1957339-04	28-NOV-19 00:59	YAW ATTOBRAH	1.16	9.7	8.46				85.48	
L1957339-05	28-NOV-19 00:59	YAW ATTOBRAH	1.16	9.66	7.91				79.41	
L1957339-06	28-NOV-19 00:59	YAW ATTOBRAH	1.14	9.75	8.18				81.77	
L1957339-07	28-NOV-19 00:59	YAW ATTOBRAH	1.13	8.35	6.78				78.25	
L1957339-08	28-NOV-19 00:59	YAW ATTOBRAH	1.15	10.69	8.77				79.87	
L1957339-09	28-NOV-19 00:59	YAW ATTOBRAH	1.14	8.64	6.72				74.40	
L1957339-10	28-NOV-19 00:59	YAW ATTOBRAH	1.17	9.98	9.23				91.49	
L1957339-11	28-NOV-19 00:59	YAW ATTOBRAH	1.15	8.85	8.08				90.00	
L1957339-12	28-NOV-19 00:59	YAW ATTOBRAH	1.18	10.63	9.79				91.11	
L1957339-13	28-NOV-19 00:59	YAW ATTOBRAH	1.15	10.21	9.46				91.72	
L1957339-14	28-NOV-19 00:59	YAW ATTOBRAH	1.15	8.7	7.3				81.46	
L1957339-15	28-NOV-19 00:59	YAW ATTOBRAH	1.13	9.71	7.52				74.48	
L1957339-16	28-NOV-19 00:59	YAW ATTOBRAH	1.16	8.52	7.12				80.98	
L1957339-17	28-NOV-19 00:59	YAW ATTOBRAH	1.15	10.45	8.34				77.31	
L1957339-18	28-NOV-19 00:59	YAW ATTOBRAH	1.14	9.64	8.2				83.06	
L1957339-19	28-NOV-19 00:59	YAW ATTOBRAH	1.17	9.52	8.12				83.23	
L1957339-20	28-NOV-19 00:59	YAW ATTOBRAH	1.15	10.38	8.69				81.69	
L1957339-21	28-NOV-19 00:59	YAW ATTOBRAH	1.16	10.69	8.84				80.59	
L1957339-22	28-NOV-19 00:59	YAW ATTOBRAH	1.14	9.71	8.36				84.25	
WG1314901-1	28-NOV-19 00:59	YAW ATTOBRAH	1.15	8.93	8.03				88.43	

WorkGroup WG1314903	Temp In (C) 105	Temp In (C)	Temp In (C)	Temp In (C)
Title Solids, Total	Temp Out (C) 105	Temp Out (C)	Temp Out (C)	Temp Out (C)
Method SM2540G	Time In 28-NOV-19 01:26	Time In	Time In	Time In
Instrument BALANCE#47	Time Out 29-NOV-19 20:04	Time Out	Time Out	Time Out

Sample #	Analysis Date	Analyst	Tare Weight (gm)	Gross Weight (gm)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Result %	Comment
L1956777-01	28-NOV-19 01:15	YAW ATTOBRAH	1.14	8.48	7.76				90.19	
L1957020-01	28-NOV-19 01:15	YAW ATTOBRAH	1.16	9.89	6.75				64.03	
L1957020-02	28-NOV-19 01:15	YAW ATTOBRAH	1.15	11.01	7.91				68.56	
L1957020-03	28-NOV-19 01:15	YAW ATTOBRAH	1.15	9.58	6.71				65.95	
L1957020-04	28-NOV-19 01:15	YAW ATTOBRAH	1.1	9.82	8				79.13	
L1957020-05	28-NOV-19 01:15	YAW ATTOBRAH	1.15	9.83	7.39				71.89	
L1957020-06	28-NOV-19 01:15	YAW ATTOBRAH	1.17	9.89	7.4				71.44	
L1957020-07	28-NOV-19 01:15	YAW ATTOBRAH	1.14	8.5	6.4				71.47	
L1957020-08	28-NOV-19 01:15	YAW ATTOBRAH	1.15	9.58	6.93				68.56	
L1957052-01	28-NOV-19 01:15	YAW ATTOBRAH	1.17	10.33	8.84				83.73	
L1957052-02	28-NOV-19 01:15	YAW ATTOBRAH	1.17	10	8.29				80.63	
L1957052-03	28-NOV-19 01:15	YAW ATTOBRAH	1.15	9.88	8.51				84.31	
L1957172-07	28-NOV-19 01:15	YAW ATTOBRAH	1.16	8.53	6.73				75.58	
L1957339-23	28-NOV-19 01:15	YAW ATTOBRAH	1.16	10.56	8.93				82.66	
L1957339-24	28-NOV-19 01:15	YAW ATTOBRAH	1.16	10.98	9.17				81.57	
L1957339-25	28-NOV-19 01:15	YAW ATTOBRAH	1.16	9.07	7.43				79.27	
L1957365-01	28-NOV-19 01:15	YAW ATTOBRAH	1.15	11.01	10.33				93.10	
L1957365-02	28-NOV-19 01:15	YAW ATTOBRAH	1.15	8.76	8.37				94.88	
L1957366-02	28-NOV-19 01:15	YAW ATTOBRAH	1.16	8.38	7.25				84.35	
L1957367-01	28-NOV-19 01:15	YAW ATTOBRAH	1.16	9.93	9.08				90.31	
WG1314903-1	28-NOV-19 01:15	YAW ATTOBRAH	1.16	10.34	8.93				84.64	

Work Group

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Dec 03 2019, 08:48 pm

Work Group: WG1314901 for Department: 7 Wet Chemistry

Created: 28-NOV-19 Due: Operator: YA

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1957339-03	PDI-1138RAB-00-10-191118	S TS	SOIL	DONE	U	1125	1213	S0	Glass-A.25
L1957339-04	PDI-138RAB-00-10-191118	S TS	SOIL	DONE	U	1125	1213	S0	Glass-A.25
L1957339-05	PDI-138RAB-10-19.1-191118	S TS	SOIL	DONE	U	1125	1213	S0	Glass-A.25
L1957339-06	PDI-138RAB-C-00-19.1-191118	S TS	SOIL	DONE	U	1125	1213	S0	Plastic-A-TS
L1957339-07	PDI-139RAB-00-10-191115	S TS	SOIL	DONE	U	1122	1213	S0	Glass-A.25
L1957339-08	PDI-139RAB-10-20-191115	S TS	SOIL	DONE	U	1122	1213	S0	Glass-A.25
L1957339-09	PDI-139RAB-20-25.5-191118	S TS	SOIL	DONE	U	1125	1213	S0	Glass-A.25
L1957339-10	PDI-144RAB-C-00-29-191114	S TS	SOIL	DONE	U	1121	1213	S0	Plastic-A-TS
L1957339-11	PDI-145RAB-00-10-191114	S TS	SOIL	DONE	U	1121	1213	S0	Glass-A.25
L1957339-12	PDI-145RAB-10-20-191114	S TS	SOIL	DONE	U	1121	1213	S0	Glass-A.25
L1957339-13	PDI-145RAB-20-24.7-191114	S TS	SOIL	DONE	U	1121	1213	S0	Glass-A.25
L1957339-14	PDI-134RAB-00-10-191120	S TS	SOIL	DONE	U	1127	1213	S0	Glass-A.25
L1957339-15	PDI-134RAB-10-20-191120	S TS	SOIL	DONE	U	1127	1213	S0	Glass-A.25
L1957339-16	PDI-134RAB-20-25.5-191120	S TS	SOIL	DONE	U	1127	1213	S0	Glass-A.25
L1957339-17	PDI-134RAB-C-00-25.5-191120	S TS	SOIL	DONE	U	1127	1213	S0	Plastic-A-TS
L1957339-18	PDI-135RAB-00-10-191120	S TS	SOIL	DONE	U	1127	1213	S0	Glass-A.25
L1957339-19	PDI-135RAB-10-20-191120	S TS	SOIL	DONE	U	1127	1213	S0	Glass-A.25
L1957339-20	PDI-135RAB-20-26.2-191120	S TS	SOIL	DONE	U	1127	1213	S0	Glass-A.25
L1957339-21	PDI-136RAB-00-10-191119	S TS	SOIL	DONE	U	1126	1213	S0	Glass-A.25
L1957339-22	PDI-136RAB-10-13.4-191119	S TS	SOIL	DONE	U	1126	1213	S0	Glass-A.25
WG1314901-1	Duplicate Sample	S TS	SOIL	DONE	U				

Comments:

WG1314901-1 L1957339-11

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Dec 03 2019, 08:48 pm

Work Group: WG1314903 for Department: 7 Wet Chemistry

Created: 28-NOV-19 Due: Operator: YA

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1956777-01	DRUM WASTE CHARACTERIZATION	S TS	SOIL	DONE	U	1202	1204	S0	Plastic-A-TS
L1957020-01	SB101-S1-112519	S TS	SOIL	DONE	U	1202	1205	S0	Plastic-A-TS
L1957020-02	SB102-S1-112519	S TS	SOIL	DONE	U	1202	1205	S0	Plastic-A-TS
L1957020-03	SB102-S2-112519	S TS	SOIL	DONE	U	1202	1205	S0	Plastic-A-TS
L1957020-04	SB103-S3-112519	S TS	SOIL	DONE	U	1202	1205	S0	Plastic-A-TS
L1957020-05	SB104-S4-112519	S TS	SOIL	DONE	U	1202	1205	S0	Plastic-A-TS
L1957020-06	SB104-S5-112519	S TS	SOIL	DONE	U	1202	1205	S0	Plastic-A-TS
L1957020-07	SB105-S4-112519	S TS	SOIL	DONE	U	1202	1205	S0	Plastic-A-TS
L1957020-08	SB105-S5-112519	S TS	SOIL	DONE	U	1202	1205	S0	Plastic-A-TS
L1957052-01	B2 2'-4'	C TS	SOIL	DONE	U	1129	1212	S0	Plastic-A-TS
L1957052-01	B2 2'-4'	C MOISTURE	SOIL	DONE	U	1129	1212	S0	SGlass-A.06
L1957052-02	B2 8'-10'	C TS	SOIL	DONE	U	1129	1212	S0	Plastic-A-TS
L1957052-02	B2 8'-10'	C MOISTURE	SOIL	DONE	U	1129	1212	S0	Glass-A.25
L1957052-03	B5 4'-6'	C TS	SOIL	DONE	U	1119	1212	S0	Plastic-A-TS
L1957052-03	B5 4'-6'	C MOISTURE	SOIL	DONE	U	1119	1212	S0	Glass-A.25
L1957172-07	SB-024-191125-SO-A10	S TS	SOIL	DONE	U	1203	1205	S0	Plastic-A-TS
L1957339-23	PDI-136RAB-C-00-13.4-191119	S TS	SOIL	DONE	U	1126	1213	S0	Plastic-A-TS
L1957339-24	PDI-137RAB-00-10-191119	S TS	SOIL	DONE	U	1126	1213	S0	Glass-A.25
L1957339-25	PDI-137RAB-10-17.7-191119	S TS	SOIL	DONE	U	1126	1213	S0	Glass-A.25
L1957365-01	EP12_15	S TS	SOIL	DONE	U	1204	1206	S0	Plastic-A-TS
L1957365-02	DUP01_EP_15	S TS	SOIL	DONE	U	1204	1206	S0	Plastic-A-TS
L1957366-02	UE_A_SW02_2	S TS	SOIL	DONE	U	1204	1202	1A	Plastic-A-TS
L1957367-01	B-1	S TS	SOIL	DONE	U	1204	1206	S0	Plastic-A-TS
WG1314903-1	Duplicate Sample	S MOISTURE	SOIL	DONE	U				
WG1314903-1	Duplicate Sample	S TS	SOIL	DONE	U				

Comments:

WG1314903-1 L1957052-01

pH Analysis

Sample Raw Data

ALPHA ANALYTICAL LABS
 WET CHEMISTRY DEPARTMENT
 pH

Last Change 01/03/11 File pH.xlt

Sample Number: _____

Client: _____

Analysis: pH

Method: EPA 9045C

Product: pH-9045
 Analyte: pH,
 Analysis Date: 11/28/2019 7:21
 Technician: JAM
 Work group: WG1314988
 RL: None

	Sample Number	Meter	Matrix	Comments	RESULT pH, SU
DUP	WG1314988-2	White 3	Soil/Solid		9.17
SAMP	L1957339-06	White 3	Soil/Solid		9.23
SAMP	L1957339-10	White 3	Soil/Solid		8.02
SAMP	L1957339-17	White 3	Soil/Solid		7.83
SAMP	L1957339-23	White 3	Soil/Solid		7.02
				1	
				1	
				1	
				1	
				1	
				1	
				1	
				1	
				1	
				1	
				1	
				1	
				1	
				1	
				1	
				1	
				1	
				1	
				1	
				1	

L1957339-06

	Sample Number	Meter	True Value of Lcs	Result	%
LCS	WG1314988-1	White 3	7	7.02	100

Work Group

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Dec 13 2019, 02:20 pm

Work Group: WG1314988 for Department: 7 Wet Chemistry

Created: 28-NOV-19 Due: Operator: JAM

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1957339-06	PDI-138RAB-C-00-19.1-191118	S PH-9045	SOIL	DONE	U	1119	1213	S0	Glass-A.25
L1957339-10	PDI-144RAB-C-00-29-191114	S PH-9045	SOIL	DONE	U	1115	1213	S0	Glass-A.25
L1957339-17	PDI-134RAB-C-00-25.5-191120	S PH-9045	SOIL	DONE	U	1121	1213	S0	Glass-A.25
L1957339-23	PDI-136RAB-C-00-13.4-191119	S PH-9045	SOIL	DONE	U	1120	1213	S0	Glass-A.25
WG1314988-1	Laboratory Control	S	PH-9045	SOIL	DONE	U			
WG1314988-2	Duplicate Sample	S	PH-9045	SOIL	DONE	U			

Comments:

WG1314988-2 L1957339-06

Sample Preparation

TITLE pH

Book No. _____

Confidential

Sample	Temp (°C)	Weight (g)	Meter	Method	Reading			
LCS(wc2689)	-	-	White 3	9040	7.02	11/28/19		
S7169-01D	19.2	↓	↓	↓	7.08	0:03 JW		
-01	19.1				7.11			
259-02	19.2				6.99			
S7251-01	16.3				7.18			
5128-02	15.8				7.09			
-03	16.1	7.25						
LCS(wc2689)	-	-	↓	↓	7.04			
S7244-07D	19.7	20.2	↓	↓	7.57			
-07	19.6	20.0			7.67			
S7244-01	19.4	20.1			4.85			
S7320-01	19.8	20.4			7.91			
S7321-01	19.8	20.0			7.90			
S7328-01	19.9	20.4			12.55			
-02	19.8	20.7			12.60			
LCS(wc2689)	-	-			↓	↓	6.97	
LCS(wc2689)	-	-			White 3	4045D	7.02	11/28/19
S7248-01D	20.1	20.1			↓	↓	7.08	1:35 JW
-01	20.3	20.5	7.25					
-02	20.1	20.5	7.46					
-03	20.2	20.2	7.23					
LCS(wc2689)	-	-	↓	↓	6.98			
LCS(wc2689)	-	-	White 3	4500	7.02	11/28/19		
S7188-01D	20.3	↓	↓	↓	5.40 5.26	7:21 SAM		
-01	20.2				5.28			
-02	20.3				6.83			
-03	20.3				7.19			
S7339-06D	19.6				20.0		9.17	
-06	19.4	20.3	9.23					
-10	19.4	20.0	8.02					
-17	19.5	21.1	7.83					
-23	19.6	20.6	7.02					
LCS(wc2689)	-	-	↓	↓	6.95			

To Page No. _____

Witnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

Ignitability Analysis

Sample Raw Data

ALPHA ANALYTICAL LABS
WET CHEMISTRY DEPARTMENT

DO NOT CHANGE SYSTEM OFF
the ignitability at

Sample #1
Analytical: IGNITABILITY
Method: 3030
Sample Weight: 1.0g

Product: IGNITE TEST
Analysis: Ignitability
Analysis Date: 12/20/18 6:55
Technician: MEY
Work center: W51313377

NOTE: Columns 8 through 9 need only be populated if sample is ignitable
If Sample is Ignitable, leave Ignitability blank

Sample Number	Source of Material	Description of Material	Particle Size	Predominant/Burner Time (sec)	Ignitability	Date of Test/Burn Test	Temperature of Test Material (°C)	Air Velocity Through Flame Hood (m/s)	Time Between Flame and Ignition (sec)	Burning Time Over 100mm (sec)	Burner Rate (Rev/s)	Time Between Flame and Ignition (sec)	Burning Time Over 100mm (sec)	Burner Rate (Rev/s)	Time Between Flame and Ignition (sec)	Burning Time Over 100mm (sec)	Burner Rate (Rev/s)
Sample 1	1.957324-01	Unknown	Non-Metallic - Damp Soil	Medium	120	NI											
Sample 2	1.957325-01	Unknown	Non-Metallic - Damp Soil	Medium	120	NI											
Sample 3	1.957326-01	Unknown	Non-Metallic - Damp Soil	Medium	120	NI											
Sample 4	1.957327-01	Unknown	Non-Metallic - Damp Soil	Medium	120	NI											
Sample 5	1.957328-06	Unknown	Non-Metallic - Damp Soil	Medium	120	NI											
Sample 6	1.957329-10	Unknown	Non-Metallic - Damp Soil	Medium	120	NI											
Sample 7	1.957330-17	Unknown	Non-Metallic - Damp Soil	Medium	120	NI											
Sample 8	1.957330-23	Unknown	Non-Metallic - Damp Soil	Medium	120	NI											
Sample 9																	
Sample 10																	
Sample 11																	
Sample 12																	
Sample 13																	
Sample 14																	
Sample 15																	
Sample 16																	
Sample 17																	
Sample 18																	
Sample 19																	
Sample 20																	
Sample 21																	
Sample 22																	
Sample 23																	
Sample 24																	
Sample 25																	

Work Group

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Dec 13 2019, 02:26 pm

Work Group: WG1315377 for Department: 7 Wet Chemistry

Created: 02-DEC-19 Due: Operator: MV

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1957071-01	WC 30/57	C IGNIT-1030	SOIL	DONE	U	1210	1203	1C	Glass-A.25
L1957315-01	GLC-C4(C)-112719-DC-COMP (0-8)	S IGNIT-1030	SOIL	DONE	U	1211	1203	1B	Glass-A.25
L1957320-01	19330-4	C IGNIT-1030	SOIL	DONE	U	1210	1203	1B	Glass-A.25
L1957321-01	19331-1	C IGNIT-1030	SOIL	DONE	U	1211	1203	1B	Glass-A.25
L1957339-06	PDI-138RAB-C-00-19.1-191118	S IGNIT-1030	SOIL	DONE	U	1202	1213	S0	Glass-A.25
L1957339-10	PDI-144RAB-C-00-29-191114	S IGNIT-1030	SOIL	DONE	U	1128	1213	S0	Glass-A.25
L1957339-17	PDI-134RAB-C-00-25.5-191120	S IGNIT-1030	SOIL	DONE	U	1204	1213	S0	Glass-A.25
L1957339-23	PDI-136RAB-C-00-13.4-191119	S IGNIT-1030	SOIL	DONE	U	1203	1213	S0	Glass-A.25

Sample Preparation

Alpha Analytical, Inc.
 Facility: Westborough, MA
 Department: Wet Chemistry
 Title: Ignitability Logbook

ID: 18059
 Revision: 1
 Published Date: 6/5/2015 2:36:19 PM
 Page 3 of 51

Sample	Description	Ambient Temp (°C)	Flame Temp (°C)	Air Flow (m/sec)	Analyst	Date (Month/Day/Year)	Start Time	Results (No Ignition-NI or Ignition-I)
57071-01	Damp soil med	21.7	71000	1.04	MV	12/02/19	6:55	NI
57315-01	"	↓	↓	↓	↓	↓	↓	↓
57320-01	"	↓	↓	↓	↓	↓	↓	↓
57321-01	"	↓	↓	↓	↓	↓	↓	↓
57339-06	"	↓	↓	↓	↓	↓	↓	↓
-10	"	↓	↓	↓	↓	↓	↓	↓
-17	"	↓	↓	↓	↓	↓	↓	↓
-23	"	↓	↓	↓	↓	↓	↓	↓

Alpha Report



ANALYTICAL REPORT

Lab Number:	L1957339
Client:	Anchor QEA, LLC 1605 Cornwall Avenue Bellingham, WA 98225
ATTN:	Delaney Peterson
Phone:	(360) 715-2707
Project Name:	GASCO PDI
Project Number:	000029-02.59
Report Date:	12/16/19

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1957339-01	PDI-FB-1911191346	WATER	SEATTLE, WA	11/19/19 13:46	11/27/19
L1957339-02	PDI-RB-1911191254	WATER	SEATTLE, WA	11/19/19 12:54	11/27/19
L1957339-03	PDI-1138RAB-00-10-191118	SOIL	SEATTLE, WA	11/18/19 00:00	11/27/19
L1957339-04	PDI-138RAB-00-10-191118	SOIL	SEATTLE, WA	11/18/19 11:40	11/27/19
L1957339-05	PDI-138RAB-10-19.1-191118	SOIL	SEATTLE, WA	11/18/19 12:40	11/27/19
L1957339-06	PDI-138RAB-C-00-19.1-191118	SOIL	SEATTLE, WA	11/18/19 13:15	11/27/19
L1957339-07	PDI-139RAB-00-10-191115	SOIL	SEATTLE, WA	11/15/19 12:40	11/27/19
L1957339-08	PDI-139RAB-10-20-191115	SOIL	SEATTLE, WA	11/15/19 14:40	11/27/19
L1957339-09	PDI-139RAB-20-25.5-191118	SOIL	SEATTLE, WA	11/18/19 08:30	11/27/19
L1957339-10	PDI-144RAB-C-00-29-191114	SOIL	SEATTLE, WA	11/14/19 16:00	11/27/19
L1957339-11	PDI-145RAB-00-10-191114	SOIL	SEATTLE, WA	11/14/19 09:15	11/27/19
L1957339-12	PDI-145RAB-10-20-191114	SOIL	SEATTLE, WA	11/14/19 10:30	11/27/19
L1957339-13	PDI-145RAB-20-24.7-191114	SOIL	SEATTLE, WA	11/14/19 11:05	11/27/19
L1957339-14	PDI-134RAB-00-10-191120	SOIL	SEATTLE, WA	11/20/19 14:45	11/27/19
L1957339-15	PDI-134RAB-10-20-191120	SOIL	SEATTLE, WA	11/20/19 15:30	11/27/19
L1957339-16	PDI-134RAB-20-25.5-191120	SOIL	SEATTLE, WA	11/20/19 15:55	11/27/19
L1957339-17	PDI-134RAB-C-00-25.5-191120	SOIL	SEATTLE, WA	11/20/19 16:15	11/27/19
L1957339-18	PDI-135RAB-00-10-191120	SOIL	SEATTLE, WA	11/20/19 09:20	11/27/19
L1957339-19	PDI-135RAB-10-20-191120	SOIL	SEATTLE, WA	11/20/19 09:55	11/27/19
L1957339-20	PDI-135RAB-20-26.2-191120	SOIL	SEATTLE, WA	11/20/19 11:00	11/27/19
L1957339-21	PDI-136RAB-00-10-191119	SOIL	SEATTLE, WA	11/19/19 09:20	11/27/19
L1957339-22	PDI-136RAB-10-13.4-191119	SOIL	SEATTLE, WA	11/19/19 10:00	11/27/19
L1957339-23	PDI-136RAB-C-00-13.4-	SOIL	SEATTLE, WA	11/19/19 10:30	11/27/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
	191119				
L1957339-24	PDI-137RAB-00-10-191119	SOIL	SEATTLE, WA	11/19/19 12:15	11/27/19
L1957339-25	PDI-137RAB-10-17.7-191119	SOIL	SEATTLE, WA	11/19/19 12:50	11/27/19

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Herbicides

L1957339-01 and -02 were received and extracted with the method required holding time exceeded.

TCLP Herbicides


L1957339-10 was received and leached with the method required holding time exceeded.

Ignitability

L1957339-10 was received and analyzed with the method required holding time exceeded.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Elizabeth Porta

Title: Technical Director/Representative

Date: 12/16/19

ORGANICS

PESTICIDES

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-01
 Client ID: PDI-FB-1911191346
 Sample Location: SEATTLE, WA

Date Collected: 11/19/19 13:46
 Date Received: 11/27/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8151A
 Analytical Date: 12/04/19 02:34
 Analyst: DGM

Extraction Method: EPA 8151A
 Extraction Date: 11/28/19 14:48

Methylation Date: 11/30/19 05:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/l	500	58.5	1	A
MCPA	ND		ug/l	500	63.2	1	B
Dalapon	ND		ug/l	20.0	0.810	1	A
Dicamba	ND		ug/l	1.00	0.243	1	A
Dichloroprop	ND		ug/l	10.0	0.564	1	B
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4-DB	ND		ug/l	10.0	0.729	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A
Dinoseb	ND		ug/l	5.00	0.573	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	97		30-150	A
DCAA	80		30-150	B

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-02
Client ID: PDI-RB-1911191254
Sample Location: SEATTLE, WA

Date Collected: 11/19/19 12:54
Date Received: 11/27/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 12/04/19 02:15
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 11/28/19 14:48

Methylation Date: 11/30/19 05:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/l	500	58.5	1	A
MCPA	ND		ug/l	500	63.2	1	B
Dalapon	ND		ug/l	20.0	0.810	1	A
Dicamba	ND		ug/l	1.00	0.243	1	A
Dichloroprop	ND		ug/l	10.0	0.564	1	B
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4-DB	ND		ug/l	10.0	0.729	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A
Dinoseb	ND		ug/l	5.00	0.573	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	90		30-150	A
DCAA	75		30-150	B

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-03
 Client ID: PDI-1138RAB-00-10-191118
 Sample Location: SEATTLE, WA

Date Collected: 11/18/19 00:00
 Date Received: 11/27/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/02/19 21:26
 Analyst: DGM
 Percent Solids: 85%
 Methylation Date: 11/29/19 13:53

Extraction Method: EPA 8151A
 Extraction Date: 11/28/19 08:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3850	1210	1	A
MCPA	ND		ug/kg	3850	1090	1	B
Dalapon	ND		ug/kg	38.5	12.6	1	A
Dicamba	ND		ug/kg	38.5	6.47	1	A
Dichloroprop	ND		ug/kg	38.5	11.0	1	B
2,4-D	ND		ug/kg	192	12.1	1	A
2,4-DB	ND		ug/kg	192	9.90	1	A
2,4,5-T	ND		ug/kg	192	5.97	1	A
2,4,5-TP (Silvex)	ND		ug/kg	192	5.12	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	64		30-150	A
DCAA	57		30-150	B

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-04
 Client ID: PDI-138RAB-00-10-191118
 Sample Location: SEATTLE, WA

Date Collected: 11/18/19 11:40
 Date Received: 11/27/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/02/19 21:44
 Analyst: DGM
 Percent Solids: 86%
 Methylation Date: 11/29/19 13:53

Extraction Method: EPA 8151A
 Extraction Date: 11/28/19 08:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3830	1210	1	A
MCPA	ND		ug/kg	3830	1080	1	B
Dalapon	ND		ug/kg	38.3	12.5	1	A
Dicamba	ND		ug/kg	38.3	6.44	1	A
Dichloroprop	ND		ug/kg	38.3	11.0	1	B
2,4-D	ND		ug/kg	192	12.1	1	A
2,4-DB	ND		ug/kg	192	9.85	1	A
2,4,5-T	ND		ug/kg	192	5.94	1	A
2,4,5-TP (Silvex)	ND		ug/kg	192	5.10	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	63		30-150	A
DCAA	55		30-150	B

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-05
 Client ID: PDI-138RAB-10-19.1-191118
 Sample Location: SEATTLE, WA

Date Collected: 11/18/19 12:40
 Date Received: 11/27/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/02/19 22:03
 Analyst: DGM
 Percent Solids: 79%
 Methylation Date: 11/29/19 13:53

Extraction Method: EPA 8151A
 Extraction Date: 11/28/19 08:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	4120	1300	1	A
MCPA	ND		ug/kg	4120	1170	1	B
Dalapon	ND		ug/kg	41.2	13.5	1	A
Dicamba	ND		ug/kg	41.2	6.93	1	A
Dichloroprop	ND		ug/kg	41.2	11.8	1	B
2,4-D	ND		ug/kg	206	13.0	1	A
2,4-DB	ND		ug/kg	206	10.6	1	A
2,4,5-T	ND		ug/kg	206	6.39	1	A
2,4,5-TP (Silvex)	ND		ug/kg	206	5.48	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	55		30-150	A
DCAA	55		30-150	B

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-06
 Client ID: PDI-138RAB-C-00-19.1-191118
 Sample Location: SEATTLE, WA

Date Collected: 11/18/19 13:15
 Date Received: 11/27/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/10/19 21:20
 Analyst: JMC
 Percent Solids: 82%
 TCLP/SPLP Ext. Date: 11/30/19 13:36
 Methylation Date: 12/04/19 09:28

Extraction Method: EPA 8151A
 Extraction Date: 12/04/19 00:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Herbicides by EPA 1311 - Westborough Lab							
2,4-D	ND		mg/l	0.025	0.001	1	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	72		30-150	A
DCAA	64		30-150	B

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-07
 Client ID: PDI-139RAB-00-10-191115
 Sample Location: SEATTLE, WA

Date Collected: 11/15/19 12:40
 Date Received: 11/27/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/07/19 14:08
 Analyst: JMC
 Percent Solids: 78%
 Methylation Date: 11/29/19 13:53

Extraction Method: EPA 8151A
 Extraction Date: 11/28/19 07:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	4210	1330	1	B
MCPA	ND		ug/kg	4210	1190	1	B
Dalapon	ND		ug/kg	42.1	13.8	1	B
Dicamba	ND		ug/kg	42.1	7.08	1	B
Dichloroprop	ND		ug/kg	42.1	12.1	1	B
2,4-D	ND		ug/kg	211	13.3	1	B
2,4-DB	ND		ug/kg	211	10.8	1	B
2,4,5-T	ND		ug/kg	211	6.53	1	B
2,4,5-TP (Silvex)	ND		ug/kg	211	5.60	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	73		30-150	A
DCAA	97		30-150	B

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-08
 Client ID: PDI-139RAB-10-20-191115
 Sample Location: SEATTLE, WA

Date Collected: 11/15/19 14:40
 Date Received: 11/27/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/07/19 14:26
 Analyst: JMC
 Percent Solids: 80%
 Methylation Date: 11/29/19 13:53

Extraction Method: EPA 8151A
 Extraction Date: 11/28/19 07:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	4120	1300	1	B
MCPA	ND		ug/kg	4120	1160	1	B
Dalapon	ND		ug/kg	41.2	13.5	1	B
Dicamba	ND		ug/kg	41.2	6.92	1	B
Dichloroprop	ND		ug/kg	41.2	11.8	1	B
2,4-D	ND		ug/kg	206	13.0	1	B
2,4-DB	ND		ug/kg	206	10.6	1	B
2,4,5-T	ND		ug/kg	206	6.38	1	B
2,4,5-TP (Silvex)	ND		ug/kg	206	5.48	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	74		30-150	A
DCAA	53		30-150	B

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-09
 Client ID: PDI-139RAB-20-25.5-191118
 Sample Location: SEATTLE, WA

Date Collected: 11/18/19 08:30
 Date Received: 11/27/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/07/19 14:45
 Analyst: JMC
 Percent Solids: 74%
 Methylation Date: 12/04/19 15:45

Extraction Method: EPA 8151A
 Extraction Date: 12/01/19 13:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	4460	1400	1	B
MCPA	ND		ug/kg	4460	1260	1	B
Dalapon	ND		ug/kg	44.6	14.6	1	B
Dicamba	ND		ug/kg	44.6	7.48	1	B
Dichloroprop	ND		ug/kg	44.6	12.8	1	B
2,4-D	ND		ug/kg	223	14.0	1	B
2,4-DB	ND		ug/kg	223	11.4	1	B
2,4,5-T	ND		ug/kg	223	6.90	1	B
2,4,5-TP (Silvex)	ND		ug/kg	223	5.92	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	96		30-150	A
DCAA	75		30-150	B

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-10
 Client ID: PDI-144RAB-C-00-29-191114
 Sample Location: SEATTLE, WA

Date Collected: 11/14/19 16:00
 Date Received: 11/27/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/10/19 21:38
 Analyst: JMC
 Percent Solids: 92%
 TCLP/SPLP Ext. Date: 11/30/19 13:36
 Methylation Date: 12/04/19 09:28

Extraction Method: EPA 8151A
 Extraction Date: 12/04/19 00:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Herbicides by EPA 1311 - Westborough Lab							
2,4-D	ND		mg/l	0.025	0.001	1	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	72		30-150	A
DCAA	61		30-150	B

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-11
 Client ID: PDI-145RAB-00-10-191114
 Sample Location: SEATTLE, WA

Date Collected: 11/14/19 09:15
 Date Received: 11/27/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/07/19 15:03
 Analyst: JMC
 Percent Solids: 90%
 Methylation Date: 11/29/19 13:53

Extraction Method: EPA 8151A
 Extraction Date: 11/28/19 07:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3670	1160	1	B
MCPA	ND		ug/kg	3670	1040	1	B
Dalapon	ND		ug/kg	36.7	12.0	1	B
Dicamba	ND		ug/kg	36.7	6.16	1	B
Dichloroprop	ND		ug/kg	36.7	10.5	1	B
2,4-D	ND		ug/kg	183	11.6	1	B
2,4-DB	ND		ug/kg	183	9.43	1	B
2,4,5-T	ND		ug/kg	183	5.68	1	B
2,4,5-TP (Silvex)	ND		ug/kg	183	4.88	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	72		30-150	A
DCAA	52		30-150	B

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-12
 Client ID: PDI-145RAB-10-20-191114
 Sample Location: SEATTLE, WA

Date Collected: 11/14/19 10:30
 Date Received: 11/27/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/07/19 15:58
 Analyst: JMC
 Percent Solids: 91%
 Methylation Date: 11/29/19 13:53

Extraction Method: EPA 8151A
 Extraction Date: 11/28/19 07:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3580	1130	1	B
MCPA	ND		ug/kg	3580	1010	1	B
Dalapon	ND		ug/kg	35.8	11.7	1	B
Dicamba	ND		ug/kg	35.8	6.01	1	B
Dichloroprop	ND		ug/kg	35.8	10.3	1	B
2,4-D	ND		ug/kg	179	11.3	1	B
2,4-DB	ND		ug/kg	179	9.20	1	B
2,4,5-T	ND		ug/kg	179	5.54	1	B
2,4,5-TP (Silvex)	ND		ug/kg	179	4.76	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	72		30-150	A
DCAA	52		30-150	B

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-13
 Client ID: PDI-145RAB-20-24.7-191114
 Sample Location: SEATTLE, WA

Date Collected: 11/14/19 11:05
 Date Received: 11/27/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/07/19 16:35
 Analyst: JMC
 Percent Solids: 92%
 Methylation Date: 11/29/19 13:53

Extraction Method: EPA 8151A
 Extraction Date: 11/28/19 07:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3580	1130	1	B
MCPA	ND		ug/kg	3580	1010	1	B
Dalapon	ND		ug/kg	35.8	11.7	1	B
Dicamba	ND		ug/kg	35.8	6.01	1	B
Dichloroprop	ND		ug/kg	35.8	10.3	1	B
2,4-D	ND		ug/kg	179	11.3	1	B
2,4-DB	ND		ug/kg	179	9.19	1	B
2,4,5-T	ND		ug/kg	179	5.54	1	B
2,4,5-TP (Silvex)	ND		ug/kg	179	4.76	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	75		30-150	A
DCAA	55		30-150	B

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-14
 Client ID: PDI-134RAB-00-10-191120
 Sample Location: SEATTLE, WA

Date Collected: 11/20/19 14:45
 Date Received: 11/27/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/07/19 16:53
 Analyst: JMC
 Percent Solids: 82%
 Methylation Date: 12/04/19 15:45

Extraction Method: EPA 8151A
 Extraction Date: 12/03/19 15:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3970	1250	1	B
MCPA	ND		ug/kg	3970	1120	1	B
Dalapon	ND		ug/kg	39.7	13.0	1	B
Dicamba	ND		ug/kg	39.7	6.68	1	B
Dichloroprop	ND		ug/kg	39.7	11.4	1	B
2,4-D	ND		ug/kg	199	12.5	1	B
2,4-DB	ND		ug/kg	199	10.2	1	B
2,4,5-T	ND		ug/kg	199	6.16	1	B
2,4,5-TP (Silvex)	ND		ug/kg	199	5.29	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	88		30-150	A
DCAA	89		30-150	B

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-15
 Client ID: PDI-134RAB-10-20-191120
 Sample Location: SEATTLE, WA

Date Collected: 11/20/19 15:30
 Date Received: 11/27/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/07/19 17:11
 Analyst: JMC
 Percent Solids: 75%
 Methylation Date: 12/04/19 15:45

Extraction Method: EPA 8151A
 Extraction Date: 12/03/19 15:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	8860	2790	1	B
MCPA	ND		ug/kg	8860	2510	1	B
Dalapon	ND		ug/kg	88.6	29.0	1	B
Dicamba	ND		ug/kg	88.6	14.9	1	B
Dichloroprop	ND		ug/kg	88.6	25.4	1	B
2,4-D	ND		ug/kg	443	27.9	1	B
2,4-DB	ND		ug/kg	443	22.8	1	B
2,4,5-T	ND		ug/kg	443	13.7	1	B
2,4,5-TP (Silvex)	ND		ug/kg	443	11.8	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	87		30-150	A
DCAA	109		30-150	B

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-16
 Client ID: PDI-134RAB-20-25.5-191120
 Sample Location: SEATTLE, WA

Date Collected: 11/20/19 15:55
 Date Received: 11/27/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/07/19 17:30
 Analyst: JMC
 Percent Solids: 81%
 Methylation Date: 12/04/19 15:45

Extraction Method: EPA 8151A
 Extraction Date: 12/03/19 15:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	7730	2440	1	B
MCPA	ND		ug/kg	7730	2190	1	B
Dalapon	ND		ug/kg	77.3	25.3	1	B
Dicamba	ND		ug/kg	77.3	13.0	1	B
Dichloroprop	ND		ug/kg	77.3	22.2	1	B
2,4-D	ND		ug/kg	386	24.4	1	B
2,4-DB	ND		ug/kg	386	19.9	1	B
2,4,5-T	ND		ug/kg	386	12.0	1	B
2,4,5-TP (Silvex)	ND		ug/kg	386	10.3	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	86		30-150	A
DCAA	95		30-150	B

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-17
 Client ID: PDI-134RAB-C-00-25.5-191120
 Sample Location: SEATTLE, WA

Date Collected: 11/20/19 16:15
 Date Received: 11/27/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/10/19 20:43
 Analyst: JMC
 Percent Solids: 77%
 TCLP/SPLP Ext. Date: 11/30/19 13:36
 Methylation Date: 12/04/19 09:28

Extraction Method: EPA 8151A
 Extraction Date: 12/04/19 00:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Herbicides by EPA 1311 - Westborough Lab							
2,4-D	ND		mg/l	0.025	0.001	1	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	61		30-150	A
DCAA	47		30-150	B

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-18
 Client ID: PDI-135RAB-00-10-191120
 Sample Location: SEATTLE, WA

Date Collected: 11/20/19 09:20
 Date Received: 11/27/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/07/19 17:48
 Analyst: JMC
 Percent Solids: 83%
 Methylation Date: 12/04/19 15:45

Extraction Method: EPA 8151A
 Extraction Date: 12/01/19 13:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3890	1220	1	B
MCPA	ND		ug/kg	3890	1100	1	B
Dalapon	ND		ug/kg	38.9	12.7	1	B
Dicamba	ND		ug/kg	38.9	6.54	1	B
Dichloroprop	ND		ug/kg	38.9	11.2	1	B
2,4-D	ND		ug/kg	194	12.2	1	B
2,4-DB	ND		ug/kg	194	10.0	1	B
2,4,5-T	ND		ug/kg	194	6.03	1	B
2,4,5-TP (Silvex)	ND		ug/kg	194	5.18	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	97		30-150	A
DCAA	76		30-150	B

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-19
 Client ID: PDI-135RAB-10-20-191120
 Sample Location: SEATTLE, WA

Date Collected: 11/20/19 09:55
 Date Received: 11/27/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/04/19 01:20
 Analyst: DGM
 Percent Solids: 83%
 Methylation Date: 12/02/19 21:50

Extraction Method: EPA 8151A
 Extraction Date: 12/01/19 13:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3950	1240	1	A
MCPA	ND		ug/kg	3950	1120	1	B
Dalapon	ND		ug/kg	39.5	12.9	1	A
Dicamba	ND		ug/kg	39.5	6.64	1	A
Dichloroprop	ND		ug/kg	39.5	11.3	1	B
2,4-D	ND		ug/kg	198	12.4	1	A
2,4-DB	ND		ug/kg	198	10.2	1	A
2,4,5-T	ND		ug/kg	198	6.13	1	A
2,4,5-TP (Silvex)	ND		ug/kg	198	5.26	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	89		30-150	A
DCAA	86		30-150	B

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-20
 Client ID: PDI-135RAB-20-26.2-191120
 Sample Location: SEATTLE, WA

Date Collected: 11/20/19 11:00
 Date Received: 11/27/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/07/19 18:07
 Analyst: JMC
 Percent Solids: 82%
 Methylation Date: 12/04/19 15:45

Extraction Method: EPA 8151A
 Extraction Date: 12/03/19 15:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	7590	2390	1	B
MCPA	ND		ug/kg	7590	2150	1	B
Dalapon	ND		ug/kg	75.9	24.8	1	B
Dicamba	ND		ug/kg	75.9	12.8	1	B
Dichloroprop	ND		ug/kg	75.9	21.8	1	B
2,4-D	ND		ug/kg	380	23.9	1	B
2,4-DB	ND		ug/kg	380	19.5	1	B
2,4,5-T	ND		ug/kg	380	11.8	1	B
2,4,5-TP (Silvex)	ND		ug/kg	380	10.1	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	96		30-150	A
DCAA	88		30-150	B

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-21
 Client ID: PDI-136RAB-00-10-191119
 Sample Location: SEATTLE, WA

Date Collected: 11/19/19 09:20
 Date Received: 11/27/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/07/19 18:25
 Analyst: JMC
 Percent Solids: 81%
 Methylation Date: 12/04/19 15:45

Extraction Method: EPA 8151A
 Extraction Date: 12/01/19 13:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	4070	1280	1	B
MCPA	ND		ug/kg	4070	1150	1	B
Dalapon	ND		ug/kg	40.7	13.3	1	B
Dicamba	ND		ug/kg	40.7	6.84	1	B
Dichloroprop	ND		ug/kg	40.7	11.7	1	B
2,4-D	ND		ug/kg	204	12.8	1	B
2,4-DB	ND		ug/kg	204	10.5	1	B
2,4,5-T	ND		ug/kg	204	6.31	1	B
2,4,5-TP (Silvex)	ND		ug/kg	204	5.41	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	108		30-150	A
DCAA	82		30-150	B

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-22
Client ID: PDI-136RAB-10-13.4-191119
Sample Location: SEATTLE, WA

Date Collected: 11/19/19 10:00
Date Received: 11/27/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 12/07/19 18:43
Analyst: JMC
Percent Solids: 84%
Methylation Date: 12/04/19 15:45

Extraction Method: EPA 8151A
Extraction Date: 12/01/19 13:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	3850	1210	1	B
MCPA	ND		ug/kg	3850	1090	1	B
Dalapon	ND		ug/kg	38.5	12.6	1	B
Dicamba	ND		ug/kg	38.5	6.47	1	B
Dichloroprop	ND		ug/kg	38.5	11.0	1	B
2,4-D	ND		ug/kg	193	12.1	1	B
2,4-DB	ND		ug/kg	193	9.90	1	B
2,4,5-T	ND		ug/kg	193	5.97	1	B
2,4,5-TP (Silvex)	ND		ug/kg	193	5.12	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	107		30-150	A
DCAA	81		30-150	B

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-23
 Client ID: PDI-136RAB-C-00-13.4-191119
 Sample Location: SEATTLE, WA

Date Collected: 11/19/19 10:30
 Date Received: 11/27/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/10/19 21:01
 Analyst: JMC
 Percent Solids: 83%
 TCLP/SPLP Ext. Date: 11/30/19 13:36
 Methylation Date: 12/04/19 09:28

Extraction Method: EPA 8151A
 Extraction Date: 12/04/19 00:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Herbicides by EPA 1311 - Westborough Lab							
2,4-D	ND		mg/l	0.025	0.001	1	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	75		30-150	A
DCAA	67		30-150	B

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-24
 Client ID: PDI-137RAB-00-10-191119
 Sample Location: SEATTLE, WA

Date Collected: 11/19/19 12:15
 Date Received: 11/27/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/07/19 19:02
 Analyst: JMC
 Percent Solids: 82%
 Methylation Date: 12/04/19 15:45

Extraction Method: EPA 8151A
 Extraction Date: 12/01/19 13:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	4040	1270	1	B
MCPA	ND		ug/kg	4040	1140	1	B
Dalapon	ND		ug/kg	40.4	13.2	1	B
Dicamba	ND		ug/kg	40.4	6.78	1	B
Dichloroprop	ND		ug/kg	40.4	11.6	1	B
2,4-D	ND		ug/kg	202	12.7	1	B
2,4-DB	ND		ug/kg	202	10.4	1	B
2,4,5-T	ND		ug/kg	202	6.26	1	B
2,4,5-TP (Silvex)	ND		ug/kg	202	5.37	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	98		30-150	A
DCAA	72		30-150	B

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-25
 Client ID: PDI-137RAB-10-17.7-191119
 Sample Location: SEATTLE, WA

Date Collected: 11/19/19 12:50
 Date Received: 11/27/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 12/07/19 19:20
 Analyst: JMC
 Percent Solids: 79%
 Methylation Date: 12/04/19 15:45

Extraction Method: EPA 8151A
 Extraction Date: 12/01/19 13:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
MCPP	ND		ug/kg	4100	1290	1	B
MCPA	ND		ug/kg	4100	1160	1	B
Dalapon	ND		ug/kg	41.0	13.4	1	B
Dicamba	ND		ug/kg	41.0	6.89	1	B
Dichloroprop	ND		ug/kg	41.0	11.8	1	B
2,4-D	ND		ug/kg	205	12.9	1	B
2,4-DB	ND		ug/kg	205	10.5	1	B
2,4,5-T	ND		ug/kg	205	6.36	1	B
2,4,5-TP (Silvex)	ND		ug/kg	205	5.46	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	103		30-150	A
DCAA	80		30-150	B

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8151A
Analytical Date: 12/02/19 20:31
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 11/28/19 07:36

Methylation Date: 11/29/19 13:53

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 03-05,07-08,11-13 Batch: WG1314990-1						
MCPP	ND		ug/kg	3240	1020	A
Dalapon	ND		ug/kg	32.4	10.6	A
Dicamba	ND		ug/kg	32.4	5.45	A
2,4-D	ND		ug/kg	162	10.2	A
2,4-DB	ND		ug/kg	162	8.34	A
2,4,5-T	ND		ug/kg	162	5.03	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.32	A
MCPA	ND		ug/kg	3240	918.	B
Dichloroprop	ND		ug/kg	32.4	9.31	B

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	64		30-150	A
DCAA	58		30-150	B

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 12/03/19 13:04
Analyst: JMC

Extraction Method: EPA 8151A
Extraction Date: 11/28/19 14:48

Methylation Date: 11/30/19 05:03

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1315021-1						
MCPP	ND		ug/l	500	58.5	A
Dalapon	ND		ug/l	20.0	0.810	A
Dicamba	ND		ug/l	1.00	0.243	A
2,4-D	ND		ug/l	10.0	0.498	A
2,4-DB	ND		ug/l	10.0	0.729	A
2,4,5-T	ND		ug/l	2.00	0.531	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	A
Dinoseb	ND		ug/l	5.00	0.573	A
MCPA	ND		ug/l	500	63.2	B
Dichloroprop	ND		ug/l	10.0	0.564	B

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	95		30-150	A
DCAA	79		30-150	B

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8151A
Analytical Date: 12/04/19 00:07
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 12/01/19 06:37

Methylation Date: 12/02/19 21:50

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 09,18-19,21-22,24-25 Batch: WG1315317-1						
MCPP	ND		ug/kg	3320	1050	A
Dalapon	ND		ug/kg	33.2	10.9	A
Dicamba	ND		ug/kg	33.2	5.58	A
2,4-D	ND		ug/kg	166	10.5	A
2,4-DB	ND		ug/kg	166	8.54	A
2,4,5-T	ND		ug/kg	166	5.15	A
2,4,5-TP (Silvex)	ND		ug/kg	166	4.42	A
MCPA	ND		ug/kg	3320	940.	B
Dichloroprop	ND		ug/kg	33.2	9.53	B

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	82		30-150	A
DCAA	72		30-150	B

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 12/04/19 12:22
Analyst: TQ

Extraction Method: EPA 8151A
Extraction Date: 12/03/19 15:30

Methylation Date: 12/04/19 11:12

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 14-16,20 Batch: WG1316102-1						
MCPP	ND		ug/kg	3280	1030	B
MCPA	ND		ug/kg	3280	927.	B
Dalapon	ND		ug/kg	32.8	10.7	B
Dicamba	ND		ug/kg	32.8	5.50	B
Dichloroprop	ND		ug/kg	32.8	9.40	B
2,4-D	ND		ug/kg	164	10.3	B
2,4-DB	ND		ug/kg	164	8.42	B
2,4,5-T	ND		ug/kg	164	5.08	B
2,4,5-TP (Silvex)	ND		ug/kg	164	4.36	B

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	76		30-150	A
DCAA	67		30-150	B

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8151A
Analytical Date: 12/10/19 19:48
Analyst: JMC
TCLP/SPLP Extraction Date: 11/30/19 13:36
Methylation Date: 12/04/19 09:28

Extraction Method: EPA 8151A
Extraction Date: 12/04/19 00:31

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP Herbicides by EPA 1311 - Westborough Lab for sample(s): 06,10,17,23 Batch: WG1316266-1						
2,4-D	ND		mg/l	0.025	0.001	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	70		30-150	A
DCAA	65		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 03-05,07-08,11-13 Batch: WG1314990-2 WG1314990-3									
MCP	75		76		30-150	1		30	A
Dalapon	68		65		30-150	5		30	A
Dicamba	63		64		30-150	2		30	A
2,4-D	66		66		30-150	0		30	A
2,4-DB	60		60		30-150	0		30	A
2,4,5-T	61		61		30-150	0		30	A
2,4,5-TP (Silvex)	63		63		30-150	0		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	61		61		30-150	A
DCAA	60		63		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 03-05,07-08,11-13 Batch: WG1314990-2 WG1314990-3									
MCPA	59		58		30-150	2		30	B
Dichloroprop	70		70		30-150	0		30	B

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	61		61		30-150	A
DCAA	60		63		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1315021-2 WG1315021-3									
MCP	113		104		30-150	8		25	A
Dalapon	102		95		30-150	7		25	A
Dicamba	97		90		30-150	7		25	A
2,4-D	105		98		30-150	7		25	A
2,4-DB	93		84		30-150	10		25	A
2,4,5-T	93		86		30-150	8		25	A
2,4,5-TP (Silvex)	101		94		30-150	7		25	A
Dinoseb	127		126		30-150	1		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	97		88		30-150	A
DCAA	91		82		30-150	B



Lab Control Sample Analysis Batch Quality Control

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1315021-2 WG1315021-3									
MCPA	108		106		30-150	2		25	B
Dichloroprop	127		118		30-150	7		25	B

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	97		88		30-150	A
DCAA	91		82		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 09,18-19,21-22,24-25 Batch: WG1315317-2 WG1315317-3									
MCPP	101		98		30-150	3		30	A
Dalapon	87		80		30-150	8		30	A
Dicamba	80		79		30-150	1		30	A
2,4-D	80		79		30-150	1		30	A
2,4-DB	77		74		30-150	4		30	A
2,4,5-T	78		77		30-150	1		30	A
2,4,5-TP (Silvex)	77		77		30-150	0		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	81		79		30-150	A
DCAA	77		76		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 09,18-19,21-22,24-25 Batch: WG1315317-2 WG1315317-3									
MCPA	83		76		30-150	9		30	B
Dichloroprop	103		102		30-150	1		30	B

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	81		79		30-150	A
DCAA	77		76		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 14-16,20 Batch: WG1316102-2 WG1316102-3									
MCP P	77		79		30-150	3		30	B
MCPA	78		79		30-150	1		30	B
Dalapon	75		75		30-150	0		30	B
Dicamba	74		78		30-150	5		30	B
Dichloroprop	103		108		30-150	5		30	B
2,4-D	80		102		30-150	24		30	B
2,4-DB	74		89		30-150	18		30	B
2,4,5-T	83		88		30-150	6		30	B
2,4,5-TP (Silvex)	83		92		30-150	10		30	B

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	76		77		30-150	A
DCAA	74		79		30-150	B



Lab Control Sample Analysis Batch Quality Control

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP Herbicides by EPA 1311 - Westborough Lab Associated sample(s): 06,10,17,23 Batch: WG1316266-2 WG1316266-3									
2,4-D	122		115		30-150	6		25	A
2,4,5-TP (Silvex)	87		74		30-150	16		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	82		72		30-150	A
DCAA	110		122		30-150	B

Matrix Spike Analysis Batch Quality Control

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 03-05,07-08,11-13 QC Batch ID: WG1314990-4 WG1314990-5 QC Sample: L1957339-11 Client ID: PDI-145RAB-00-10-191114													
MCPP	ND	18300	11100	61		12500	69		30-150	12		30	B
MCPA	ND	18300	11600	64		12300	68		30-150	6		30	B
Dalapon	ND	183	124	68		141	78		30-150	13		30	B
Dicamba	ND	183	118	65		125	69		30-150	6		30	B
Dichloroprop	ND	183	137	75		145	80		30-150	6		30	B
2,4-D	ND	183	118J	65		125J	69		30-150	6		30	B
2,4-DB	ND	183	111J	61		115J	64		30-150	4		30	B
2,4,5-T	ND	183	128J	70		136J	75		30-150	6		30	B
2,4,5-TP (Silvex)	ND	183	128J	70		134J	74		30-150	5		30	B

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
DCAA	80		86		30-150	A
DCAA	60		63		30-150	B



Matrix Spike Analysis Batch Quality Control

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 09,18-19,21-22,24-25 QC Batch ID: WG1315317-4 WG1315317-5 QC Sample: L1957339-19 Client ID: PDI-135RAB-10-20-191120													
MCPP	ND	19600	19100	98		20800	107		30-150	9		30	A
MCPA	ND	19600	13500	69		15800	81		30-150	16		30	B
Dalapon	ND	196	154	79		176	90		30-150	13		30	A
Dicamba	ND	196	153	78		180	92		30-150	16		30	A
Dichloroprop	ND	196	201	103		225	115		30-150	11		30	B
2,4-D	ND	196	170J	87		184J	94		30-150	8		30	A
2,4-DB	ND	196	171J	87		189J	97		30-150	10		30	A
2,4,5-T	ND	196	144J	74		168J	86		30-150	15		30	A
2,4,5-TP (Silvex)	ND	196	145J	74		171J	88		30-150	16		30	A

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
DCAA	77		91		30-150	A
DCAA	82		94		30-150	B



INORGANICS & MISCELLANEOUS

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-06
Client ID: PDI-138RAB-C-00-19.1-191118
Sample Location: SEATTLE, WA

Date Collected: 11/18/19 13:15
Date Received: 11/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material: Unknown
Description of Material: Non-Metallic - Damp Soil
Particle Size: Medium
Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	12/02/19 06:55	1,1030	MV



Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-10
Client ID: PDI-144RAB-C-00-29-191114
Sample Location: SEATTLE, WA

Date Collected: 11/14/19 16:00
Date Received: 11/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material: Unknown
Description of Material: Non-Metallic - Damp Soil
Particle Size: Medium
Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	12/02/19 06:55	1,1030	MV



Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-17
Client ID: PDI-134RAB-C-00-25.5-191120
Sample Location: SEATTLE, WA

Date Collected: 11/20/19 16:15
Date Received: 11/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material: Unknown
Description of Material: Non-Metallic - Damp Soil
Particle Size: Medium
Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	12/02/19 06:55	1,1030	MV



Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-23
Client ID: PDI-136RAB-C-00-13.4-191119
Sample Location: SEATTLE, WA

Date Collected: 11/19/19 10:30
Date Received: 11/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material: Unknown
Description of Material: Non-Metallic - Damp Soil
Particle Size: Medium
Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	12/02/19 06:55	1,1030	MV



Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-03
Client ID: PDI-1138RAB-00-10-191118
Sample Location: SEATTLE, WA

Date Collected: 11/18/19 00:00
Date Received: 11/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Perchlorate by IC/MS/MS - Westborough Lab										
Perchlorate	0.135	J	ug/kg	0.567	0.024	1	12/11/19 15:41	12/11/19 18:34	72,6860	AM
General Chemistry - Westborough Lab										
Solids, Total	85.4		%	0.100	NA	1	-	11/28/19 00:59	121,2540G	YA



Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-04
Client ID: PDI-138RAB-00-10-191118
Sample Location: SEATTLE, WA

Date Collected: 11/18/19 11:40
Date Received: 11/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Perchlorate by IC/MS/MS - Westborough Lab										
Perchlorate	0.075	J	ug/kg	0.576	0.025	1	12/11/19 15:41	12/11/19 18:46	72,6860	AM
General Chemistry - Westborough Lab										
Solids, Total	85.5		%	0.100	NA	1	-	11/28/19 00:59	121,2540G	YA



Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-05
Client ID: PDI-138RAB-10-19.1-191118
Sample Location: SEATTLE, WA

Date Collected: 11/18/19 12:40
Date Received: 11/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Perchlorate by IC/MS/MS - Westborough Lab										
Perchlorate	0.132	J	ug/kg	0.668	0.029	1	12/11/19 15:41	12/11/19 18:58	72,6860	AM
General Chemistry - Westborough Lab										
Solids, Total	79.4		%	0.100	NA	1	-	11/28/19 00:59	121,2540G	YA



Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-06
Client ID: PDI-138RAB-C-00-19.1-191118
Sample Location: SEATTLE, WA

Date Collected: 11/18/19 13:15
Date Received: 11/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.8		%	0.100	NA	1	-	11/28/19 00:59	121,2540G	YA
pH (H)	9.2		SU	-	NA	1	-	11/28/19 07:21	1,9045D	JA



Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-07
Client ID: PDI-139RAB-00-10-191115
Sample Location: SEATTLE, WA

Date Collected: 11/15/19 12:40
Date Received: 11/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Perchlorate by IC/MS/MS - Westborough Lab										
Perchlorate	ND		ug/kg	0.662	0.028	1	12/11/19 15:41	12/11/19 19:10	72,6860	AM
General Chemistry - Westborough Lab										
Solids, Total	78.2		%	0.100	NA	1	-	11/28/19 00:59	121,2540G	YA



Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-08
Client ID: PDI-139RAB-10-20-191115
Sample Location: SEATTLE, WA

Date Collected: 11/15/19 14:40
Date Received: 11/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Perchlorate by IC/MS/MS - Westborough Lab										
Perchlorate	ND		ug/kg	0.590	0.025	1	12/11/19 15:41	12/11/19 19:22	72,6860	AM
General Chemistry - Westborough Lab										
Solids, Total	79.9		%	0.100	NA	1	-	11/28/19 00:59	121,2540G	YA



Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-09
Client ID: PDI-139RAB-20-25.5-191118
Sample Location: SEATTLE, WA

Date Collected: 11/18/19 08:30
Date Received: 11/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Perchlorate by IC/MS/MS - Westborough Lab										
Perchlorate	ND		ug/kg	0.646	0.028	1	12/11/19 15:41	12/11/19 19:34	72,6860	AM
General Chemistry - Westborough Lab										
Solids, Total	74.4		%	0.100	NA	1	-	11/28/19 00:59	121,2540G	YA



Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-10
Client ID: PDI-144RAB-C-00-29-191114
Sample Location: SEATTLE, WA

Date Collected: 11/14/19 16:00
Date Received: 11/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.5		%	0.100	NA	1	-	11/28/19 00:59	121,2540G	YA
pH (H)	8.0		SU	-	NA	1	-	11/28/19 07:21	1,9045D	JA



Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-11
Client ID: PDI-145RAB-00-10-191114
Sample Location: SEATTLE, WA

Date Collected: 11/14/19 09:15
Date Received: 11/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Perchlorate by IC/MS/MS - Westborough Lab										
Perchlorate	ND		ug/kg	0.547	0.023	1	12/11/19 15:41	12/11/19 19:46	72,6860	AM
General Chemistry - Westborough Lab										
Solids, Total	90.0		%	0.100	NA	1	-	11/28/19 00:59	121,2540G	YA



Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-12
Client ID: PDI-145RAB-10-20-191114
Sample Location: SEATTLE, WA

Date Collected: 11/14/19 10:30
Date Received: 11/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Perchlorate by IC/MS/MS - Westborough Lab										
Perchlorate	ND		ug/kg	0.504	0.022	1	12/11/19 15:41	12/11/19 19:58	72,6860	AM
General Chemistry - Westborough Lab										
Solids, Total	91.1		%	0.100	NA	1	-	11/28/19 00:59	121,2540G	YA



Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-13
Client ID: PDI-145RAB-20-24.7-191114
Sample Location: SEATTLE, WA

Date Collected: 11/14/19 11:05
Date Received: 11/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Perchlorate by IC/MS/MS - Westborough Lab										
Perchlorate	ND		ug/kg	0.521	0.022	1	12/11/19 15:41	12/11/19 20:10	72,6860	AM
General Chemistry - Westborough Lab										
Solids, Total	91.7		%	0.100	NA	1	-	11/28/19 00:59	121,2540G	YA



Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-14
Client ID: PDI-134RAB-00-10-191120
Sample Location: SEATTLE, WA

Date Collected: 11/20/19 14:45
Date Received: 11/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Perchlorate by IC/MS/MS - Westborough Lab										
Perchlorate	ND		ug/kg	0.598	0.026	1	12/12/19 16:30	12/12/19 19:20	72,6860	AM
General Chemistry - Westborough Lab										
Solids, Total	81.5		%	0.100	NA	1	-	11/28/19 00:59	121,2540G	YA



Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-15
Client ID: PDI-134RAB-10-20-191120
Sample Location: SEATTLE, WA

Date Collected: 11/20/19 15:30
Date Received: 11/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Perchlorate by IC/MS/MS - Westborough Lab										
Perchlorate	ND		ug/kg	0.653	0.028	1	12/12/19 16:30	12/12/19 19:32	72,6860	AM
General Chemistry - Westborough Lab										
Solids, Total	74.5		%	0.100	NA	1	-	11/28/19 00:59	121,2540G	YA



Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-16
Client ID: PDI-134RAB-20-25.5-191120
Sample Location: SEATTLE, WA

Date Collected: 11/20/19 15:55
Date Received: 11/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Perchlorate by IC/MS/MS - Westborough Lab										
Perchlorate	1.92		ug/kg	0.584	0.025	1	12/12/19 16:30	12/12/19 19:44	72,6860	AM
General Chemistry - Westborough Lab										
Solids, Total	81.0		%	0.100	NA	1	-	11/28/19 00:59	121,2540G	YA



Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-17
Client ID: PDI-134RAB-C-00-25.5-191120
Sample Location: SEATTLE, WA

Date Collected: 11/20/19 16:15
Date Received: 11/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.3		%	0.100	NA	1	-	11/28/19 00:59	121,2540G	YA
pH (H)	7.8		SU	-	NA	1	-	11/28/19 07:21	1,9045D	JA



Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-18
Client ID: PDI-135RAB-00-10-191120
Sample Location: SEATTLE, WA

Date Collected: 11/20/19 09:20
Date Received: 11/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Perchlorate by IC/MS/MS - Westborough Lab										
Perchlorate	0.037	J	ug/kg	0.547	0.023	1	12/12/19 16:30	12/12/19 19:56	72,6860	AM
General Chemistry - Westborough Lab										
Solids, Total	83.1		%	0.100	NA	1	-	11/28/19 00:59	121,2540G	YA



Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-19
Client ID: PDI-135RAB-10-20-191120
Sample Location: SEATTLE, WA

Date Collected: 11/20/19 09:55
Date Received: 11/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Perchlorate by IC/MS/MS - Westborough Lab										
Perchlorate	0.058	J	ug/kg	0.550	0.024	1	12/12/19 16:30	12/12/19 20:08	72,6860	AM
General Chemistry - Westborough Lab										
Solids, Total	83.2		%	0.100	NA	1	-	11/28/19 00:59	121,2540G	YA



Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-20
Client ID: PDI-135RAB-20-26.2-191120
Sample Location: SEATTLE, WA

Date Collected: 11/20/19 11:00
Date Received: 11/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Perchlorate by IC/MS/MS - Westborough Lab										
Perchlorate	0.380	J	ug/kg	0.548	0.023	1	12/12/19 16:30	12/12/19 20:20	72,6860	AM
General Chemistry - Westborough Lab										
Solids, Total	81.7		%	0.100	NA	1	-	11/28/19 00:59	121,2540G	YA



Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-21
Client ID: PDI-136RAB-00-10-191119
Sample Location: SEATTLE, WA

Date Collected: 11/19/19 09:20
Date Received: 11/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Perchlorate by IC/MS/MS - Westborough Lab										
Perchlorate	0.136	J	ug/kg	0.597	0.026	1	12/12/19 16:30	12/13/19 15:03	72,6860	AM
General Chemistry - Westborough Lab										
Solids, Total	80.6		%	0.100	NA	1	-	11/28/19 00:59	121,2540G	YA



Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-22
Client ID: PDI-136RAB-10-13.4-191119
Sample Location: SEATTLE, WA

Date Collected: 11/19/19 10:00
Date Received: 11/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Perchlorate by IC/MS/MS - Westborough Lab										
Perchlorate	0.160	J	ug/kg	0.550	0.024	1	12/12/19 16:30	12/12/19 20:44	72,6860	AM
General Chemistry - Westborough Lab										
Solids, Total	84.2		%	0.100	NA	1	-	11/28/19 00:59	121,2540G	YA



Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-23
Client ID: PDI-136RAB-C-00-13.4-191119
Sample Location: SEATTLE, WA

Date Collected: 11/19/19 10:30
Date Received: 11/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.7		%	0.100	NA	1	-	11/28/19 01:15	121,2540G	YA
pH (H)	7.0		SU	-	NA	1	-	11/28/19 07:21	1,9045D	JA



Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-24
Client ID: PDI-137RAB-00-10-191119
Sample Location: SEATTLE, WA

Date Collected: 11/19/19 12:15
Date Received: 11/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Perchlorate by IC/MS/MS - Westborough Lab										
Perchlorate	0.142	J	ug/kg	0.635	0.027	1	12/12/19 16:30	12/12/19 20:56	72,6860	AM
General Chemistry - Westborough Lab										
Solids, Total	81.6		%	0.100	NA	1	-	11/28/19 01:15	121,2540G	YA



Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

SAMPLE RESULTS

Lab ID: L1957339-25
Client ID: PDI-137RAB-10-17.7-191119
Sample Location: SEATTLE, WA

Date Collected: 11/19/19 12:50
Date Received: 11/27/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Perchlorate by IC/MS/MS - Westborough Lab										
Perchlorate	0.134	J	ug/kg	0.577	0.025	1	12/12/19 16:30	12/12/19 21:08	72,6860	AM
General Chemistry - Westborough Lab										
Solids, Total	79.3		%	0.100	NA	1	-	11/28/19 01:15	121,2540G	YA



Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

Method Blank Analysis
Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Perchlorate by IC/MS/MS - Westborough Lab for sample(s): 03-05,07-09,11-13 Batch: WG1321406-1									
Perchlorate	ND	ug/kg	0.489	0.021	1	12/11/19 15:41	12/11/19 17:46	72,6860	AM
Perchlorate by IC/MS/MS - Westborough Lab for sample(s): 14-16,18-22,24-25 Batch: WG1321415-1									
Perchlorate	ND	ug/kg	0.516	0.022	1	12/12/19 16:30	12/12/19 18:32	72,6860	AM



Lab Control Sample Analysis

Batch Quality Control

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 06,10,17,23 Batch: WG1314988-1								
pH	100		-		99-101	-		
Perchlorate by IC/MS/MS - Westborough Lab Associated sample(s): 03-05,07-09,11-13 Batch: WG1321406-2								
Perchlorate	105		-		80-120	-		20
Perchlorate by IC/MS/MS - Westborough Lab Associated sample(s): 14-16,18-22,24-25 Batch: WG1321415-2								
Perchlorate	102		-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perchlorate by IC/MS/MS - Westborough Lab Associated sample(s): 03-05,07-09,11-13 QC Batch ID: WG1321406-3 WG1321406-4 QC Sample: L1957339-11 Client ID: PDI-145RAB-00-10-191114												
Perchlorate	ND	0.58	0.677	117		0.682	118		70-130	1		30
Perchlorate by IC/MS/MS - Westborough Lab Associated sample(s): 14-16,18-22,24-25 QC Batch ID: WG1321415-3 WG1321415-4 QC Sample: L1957339-19 Client ID: PDI-135RAB-10-20-191120												
Perchlorate	0.058J	0.618	0.804	130		0.738	118		70-130	9		30

Lab Duplicate Analysis

Batch Quality Control

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03-22 QC Batch ID: WG1314901-1 QC Sample: L1957339-11 Client ID: PDI-145RAB-00-10-191114						
Solids, Total	90.0	88.4	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 23-25 QC Batch ID: WG1314903-1 QC Sample: L1957052-01 Client ID: DUP Sample						
Solids, Total	83.7	84.6	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 06,10,17,23 QC Batch ID: WG1314988-2 QC Sample: L1957339-06 Client ID: PDI-138RAB-C-00-19.1-191118						
pH (H)	9.2	9.2	SU	0		5

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1957339-01A	Amber 1000ml unpreserved	A	7	7	3.4	Y	Absent		HERB-8151(7)
L1957339-01B	Amber 1000ml unpreserved	A	7	7	3.4	Y	Absent		HERB-8151(7)
L1957339-02A	Amber 1000ml unpreserved	B	7	7	0.8	Y	Absent		HERB-8151(7)
L1957339-02B	Amber 1000ml unpreserved	B	7	7	0.8	Y	Absent		HERB-8151(7)
L1957339-03A	Glass 250ml/8oz unpreserved	B	NA		0.8	Y	Absent		PERC-6860(28),TS(7),HERB-8151(14)
L1957339-04A	Glass 250ml/8oz unpreserved	B	NA		0.8	Y	Absent		PERC-6860(28),TS(7),HERB-8151(14)
L1957339-05A	Glass 250ml/8oz unpreserved	B	NA		0.8	Y	Absent		PERC-6860(28),TS(7),HERB-8151(14)
L1957339-06A	Glass 500ml/16oz unpreserved	B	NA		0.8	Y	Absent		IGNIT-1030(14),TS(7),PH-9045(1)
L1957339-06W	Amber 1000ml unpreserved Extracts	B	NA		0.8	Y	Absent		HERB-TCLP*(14)
L1957339-06X9	Tumble Vessel	B	NA		0.8	Y	Absent		-
L1957339-07A	Glass 250ml/8oz unpreserved	B	NA		0.8	Y	Absent		PERC-6860(28),TS(7),HERB-8151(14)
L1957339-08A	Glass 250ml/8oz unpreserved	B	NA		0.8	Y	Absent		PERC-6860(28),TS(7),HERB-8151(14)
L1957339-09A	Glass 250ml/8oz unpreserved	B	NA		0.8	Y	Absent		PERC-6860(28),TS(7),HERB-8151(14)
L1957339-10A	Glass 500ml/16oz unpreserved	B	NA		0.8	Y	Absent		IGNIT-1030(14),TS(7),PH-9045(1)
L1957339-10W	Amber 1000ml unpreserved Extracts	B	NA		0.8	Y	Absent		HERB-TCLP*(14)
L1957339-10X9	Tumble Vessel	B	NA		0.8	Y	Absent		-
L1957339-11A	Glass 250ml/8oz unpreserved	B	NA		0.8	Y	Absent		PERC-6860(28),TS(7),HERB-8151(14)
L1957339-11B	Glass 250ml/8oz unpreserved	B	NA		0.8	Y	Absent		PERC-6860(28),TS(7),HERB-8151(14)
L1957339-12A	Glass 250ml/8oz unpreserved	B	NA		0.8	Y	Absent		PERC-6860(28),TS(7),HERB-8151(14)
L1957339-13A	Glass 250ml/8oz unpreserved	B	NA		0.8	Y	Absent		PERC-6860(28),TS(7),HERB-8151(14)
L1957339-14A	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		PERC-6860(28),TS(7),HERB-8151(14)
L1957339-15A	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		PERC-6860(28),TS(7),HERB-8151(14)

Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1957339-16A	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		PERC-6860(28),TS(7),HERB-8151(14)
L1957339-17A	Glass 500ml/16oz unpreserved	A	NA		3.4	Y	Absent		IGNIT-1030(14),TS(7),PH-9045(1)
L1957339-17W	Amber 1000ml unpreserved Extracts	A	NA		3.4	Y	Absent		HERB-TCLP*(14)
L1957339-17X9	Tumble Vessel	A	NA		3.4	Y	Absent		-
L1957339-18A	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		PERC-6860(28),TS(7),HERB-8151(14)
L1957339-19A	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		PERC-6860(28),TS(7),HERB-8151(14)
L1957339-19B	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		PERC-6860(28),TS(7),HERB-8151(14)
L1957339-20A	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		PERC-6860(28),TS(7),HERB-8151(14)
L1957339-21A	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		PERC-6860(28),TS(7),HERB-8151(14)
L1957339-22A	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		PERC-6860(28),TS(7),HERB-8151(14)
L1957339-23A	Glass 500ml/16oz unpreserved	A	NA		3.4	Y	Absent		IGNIT-1030(14),TS(7),PH-9045(1)
L1957339-23W	Amber 1000ml unpreserved Extracts	A	NA		3.4	Y	Absent		HERB-TCLP*(14)
L1957339-23X9	Tumble Vessel	A	NA		3.4	Y	Absent		-
L1957339-24A	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		PERC-6860(28),TS(7),HERB-8151(14)
L1957339-25A	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		PERC-6860(28),TS(7),HERB-8151(14)

Project Name: GASCO PDI
Project Number: 000029-02.59

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GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
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- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)-(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedances are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

Report Format: DU Report with 'J' Qualifiers



Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

Data Qualifiers

- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name: GASCO PDI
Project Number: 000029-02.59

Lab Number: L1957339
Report Date: 12/16/19

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 72 Perchlorate in Water, Soils and Solid Wastes using Ion Chromatography/Electrospray/Mass Spectrometry - (IC/MS or IC/MS/MS). EPA 6860, 2005.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

Serial_No:12161922:57
L1957339

POC: Delaney Peterson (360-715-2707)
1605 Cornwall Avenue, Bellingham, WA 98225

Project: Gasco PDI
Client: NW Natural

COC ID: AWHL-20191119-144349
Sample Custodian: SN
Lab: Alpha Analytical

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected		Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
				Date	Time						
001	PDI-FB-1911191346	FB	WQ	11/19/2019	13:46	2	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
002	PDI-RB-1911191254	RB	WQ	11/19/2019	12:54	2	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
003	PDI-1138RAB-00-10-191118	FD	SO	11/18/2019		1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Perchlorate	SW6860	30	4°C
004	PDI-138RAB-00-10-191118	N	SO	11/18/2019	11:40	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Perchlorate	SW6860	30	4°C
005	PDI-138RAB-10-19.1-191118	N	SO	11/18/2019	12:40	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Perchlorate	SW6860	30	4°C
006	PDI-138RAB-C-00-19.1-191118	N	SE	11/18/2019	13:15	1	<input type="checkbox"/>	Ignitability	SW1030	30	4°C
								pH	SW9045D	30	4°C
								TCLP Herbicides	SW8151A	30	4°C
								Total solids (ALPHA)	SM2540G	30	4°C
007	PDI-139RAB-00-10-191115	N	SO	11/15/2019	12:40	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Perchlorate	SW6860	30	4°C
008	PDI-139RAB-10-20-191115	N	SO	11/15/2019	14:40	1	<input type="checkbox"/>				

So SE 11/19/2019

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>
Print Name: <i>Sasha Norwood</i>	Print Name: <i>[Name]</i>	Print Name: <i>[Name]</i>	Print Name: <i>Oylan Snook</i>	Print Name: <i>Bethany Bader</i>	Print Name: <i>[Name]</i>
Company: <i>Anchor OEA</i>	Company: <i>FedEx</i>	Company: <i>FedEx</i>	Company: <i>AAL</i>	Company: <i>AAL</i>	Company: <i>AAL</i>
Date/Time: <i>11/21/19 @ 14:00</i>	Date/Time: <i>[Date]</i>	Date/Time: <i>[Date]</i>	Date/Time: <i>11/27/19 10:37</i>	Date/Time: <i>11/27/19</i>	Date/Time: <i>11/27/19 20:59</i>

[Handwritten notes and signatures]

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

L1957339

POC: Delaney Peterson (360-715-2707)
1605 Cornwall Avenue, Bellingham, WA 98225

Project: Gasco PDI
Client: NW Natural

COC ID: AWHL-20191119-144349
Sample Custodian: SN
Lab: Alpha Analytical

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
008	PDI-139RAB-10-20-191115	N	SO	11/15/2019	14:40	1	<input type="checkbox"/>	Herbicides Perchlorate	SW8151A SW6860	30 30	4°C 4°C
009	PDI-139RAB-20-25.5-191118	N	SO	11/18/2019	8:30	1	<input type="checkbox"/>	Herbicides Perchlorate	SW8151A SW6860	30 30	4°C 4°C
010	PDI-144RAB-C-00-29-191114	N	SE SN is Nov 19	11/14/2019	16:00	1	<input type="checkbox"/>	Ignitability pH TCLP Herbicides Total solids (ALPHA)	SW1030 SW9045D SW8151A SM2540G	30 30 30 30	4°C 4°C 4°C 4°C
011	PDI-145RAB-00-10-191114	N	SO	11/14/2019	9:15	2	<input checked="" type="checkbox"/>	Herbicides Perchlorate	SW8151A SW6860	30 30	4°C 4°C
012	PDI-145RAB-10-20-191114	N	SO	11/14/2019	10:30	1	<input type="checkbox"/>	Herbicides Perchlorate	SW8151A SW6860	30 30	4°C 4°C
013	PDI-145RAB-20-24.7-191114	N	SO	11/14/2019	11:05	1	<input type="checkbox"/>	Herbicides Perchlorate	SW8151A SW6860	30 30	4°C 4°C

Comment:

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>
Print Name: <i>Sasha Norwood</i>	Print Name: <i>[Name]</i>	Print Name: <i>[Name]</i>	Print Name: <i>Dylan Snook</i>	Print Name: <i>Beth...</i>	Print Name: <i>Joe Bozio</i>
Company: <i>Anchor OEA</i>	Company: <i>FedEx</i>	Company: <i>FedEx</i>	Company: <i>Adi</i>	Company: <i>AAL</i>	Company: <i>AAL</i>
Date/Time: <i>11/21/19 @ 1400</i>	Date/Time: <i>11/21/19 2019</i>	Date/Time: <i>11/21/19 2019</i>	Date/Time: <i>11/27/19 10:37</i>	Date/Time: <i>11/27/19</i>	Date/Time: <i>11/27/19 2019</i>

* Lab QC Requested for sample when box is checked ** TAT = Turn Around Time in DAYS # POC = Project Point of Contact

L1957339



ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

POC: * Delaney Peterson (360-715-2707)

Project: Gasco PDI

1605 Cornwall Avenue, Bellingham, WA 98225

Client: NW Natural

COC ID: AWHL-20191121-114219

Sample Custodian: SN

Lab: Alpha Analytical

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected		Containers	Lab QC*	Test Request	Method	TAT**	Preservative
				Date	Time						
001	PDI-134RAB-00-10-191120	N	SO	11/20/2019	14:45	1	<input type="checkbox"/>	Herbicides Perchlorate	SW8151A SW6860	30 30	4°C 4°C
002	PDI-134RAB-10-20-191120	N	SO	11/20/2019	15:30	1	<input type="checkbox"/>	Herbicides Perchlorate	SW8151A SW6860	30 30	4°C 4°C
003	PDI-134RAB-20-25.5-191120	N	SO	11/20/2019	15:55	1	<input type="checkbox"/>	Herbicides Perchlorate	SW8151A SW6860	30 30	4°C 4°C
004	PDI-134RAB-C-00-25.5-191120	N	SO	11/20/2019	16:15	1	<input type="checkbox"/>	Ignitability pH TCLP Herbicides Total solids (ALPHA)	SW1030 SW9045D SW8151A SM2540G	30 30 30 30	
005	PDI-135RAB-00-10-191120	N	SO	11/20/2019	9:20	1	<input type="checkbox"/>	Herbicides Perchlorate	SW8151A SW6860	30 30	4°C 4°C
006	PDI-135RAB-10-20-191120	N	SO	11/20/2019	9:55	2	<input checked="" type="checkbox"/>	Herbicides Perchlorate	SW8151A SW6860	30 30	4°C 4°C
007	PDI-135RAB-20-26.2-191120	N	SO	11/20/2019	11:00	1	<input type="checkbox"/>				

Comment:					
Relinquished By Signature	Received By Signature	Relinquished By Signature	Received By Signature	Relinquished By Signature	Received By Signature
Print Name	Print Name	Print Name	Print Name	Print Name	Print Name
Company	Company	Company	Company	Company	Company
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
Sasha Norwood			Dylan Snook	Bethany R...	Jessica...
Anchor QEA	FedEx	FedEx	AAL	AAL	AAL
11/21/19 14:05			11/27/19 10:37	11/27/19 10:00	11/27/19 20:54

Rec'd By: *[Signature]* Lab QC Requested for sample when box is checked TAT = Turn Around Time in DAYS # POC = Project Point of Contact

[Handwritten notes]
JWB
412
11/27/19
2230



ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

L1957339

POC: Delaney Peterson (360-715-2707)
1605 Cornwall Avenue, Bellingham, WA 98225

Project: Gasco PDI
Client: NW Natural

COC ID: AWHL-20191121-114219
Sample Custodian: SN
Lab: Alpha Analytical

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected		Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
				Date	Time						
007	PDI-135RAB-20-26.2-191120	N	SO	11/20/2019	11:00	1	<input type="checkbox"/>	Herbicides Perchlorate	SW8151A SW6860	30 30	4°C 4°C
008	PDI-136RAB-00-10-191119	N	SO	11/19/2019	9:20	1	<input type="checkbox"/>	Herbicides Perchlorate	SW8151A SW6860	30 30	4°C 4°C
009	PDI-136RAB-10-13.4-191119	N	SO	11/19/2019	10:00	1	<input type="checkbox"/>	Herbicides Perchlorate	SW8151A SW6860	30 30	4°C 4°C
010	PDI-136RAB-C-00-13.4-191119	N	SO	11/19/2019	10:30	1	<input type="checkbox"/>	Herbicides Perchlorate Ignitability pH TCLP Herbicides Total solids (ALPHA)	SW8151A SW6860 SW1030 SW9045D SW8151A SM2540G	30 30 30 30 30	4°C 4°C
011	PDI-137RAB-00-10-191119	N	SO	11/19/2019	12:15	1	<input type="checkbox"/>	Herbicides Perchlorate	SW8151A SW6860	30 30	4°C 4°C
012	PDI-137RAB-10-17.7-191119	N	SO	11/19/2019	12:50	1	<input type="checkbox"/>	Herbicides Perchlorate	SW8151A SW6860	30 30	4°C 4°C

Comment:

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>
Print Name: <i>Sasha Harwood</i>	Print Name: <i>[Name]</i>	Print Name: <i>[Name]</i>	Print Name: <i>Dylan Snook</i>	Print Name: <i>[Name]</i>	Print Name: <i>Jon DeLo</i>
Company: <i>Anchor OEA</i>	Company: <i>FedEx</i>	Company: <i>FedEx</i>	Company: <i>AAI</i>	Company: <i>AAI</i>	Company: <i>AAI</i>
Date/Time: <i>11/21/19 14:00</i>	Date/Time: <i>[Date/Time]</i>	Date/Time: <i>[Date/Time]</i>	Date/Time: <i>11/27/19 10:37</i>	Date/Time: <i>11/27/19</i>	Date/Time: <i>11/27/19 20:30</i>

Date Printed: 11/21/2019
* Lab QC Requested for sample when box is checked ** TAT = Turn Around Time in DAYS # POC = Project Point of Contact

ORIGIN ID: BNOA (503) 718-2323
APEX LABS
APEX LABORATORIES
12232 SW GARDEN PL

SHIP DATE: 25NOV19
ACTWGT: 52.00 LB
CAD: 4716258/INET4160

TIGARD, OR 97223
UNITED STATES US

BILL THIRD PARTY

TO **SAMPLE RECEIVING
ALPHA ANALYTICAL
320 FORBES BLVD.**

MANSFIELD MA 02048

(508) 822-9300
INV.
PO.

REF: 000029-02:59
DEPT.

567,11F33005A2



FedEx Ship Manager - Print Your Label(s)

2 of 2

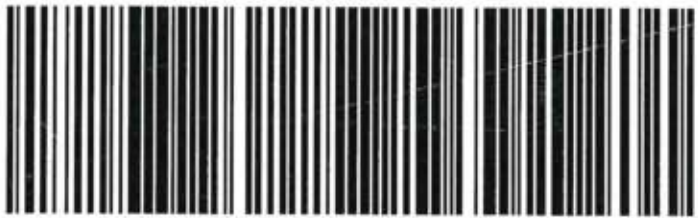
**TUE - 26 NOV 10:30A
PRIORITY OVERNIGHT**

MPS# 7770 7713 9151
0263
Mstr# 7770 7713 9140

0201

XE PYMA

02048
MA-US BOS



*A= 3.4
9829
cool arrived
11/26/19*

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ORIGIN ID: BNOA (503) 718-2323
APEX LABS
APEX LABORATORIES
12232 SW GARDEN PL

SHIP DATE: 25NOV19
ACTWGT: 52.00 LB
CAD: 4716258/NET4160

TIGARD, OR 97223
UNITED STATES US

BILL THIRD PARTY

TO **SAMPLE RECEIVING**
ALPHA ANALYTICAL
320 FORBES BLVD.

MANSFIELD MA 02048

567.11.F33005A2

(508) 822-9300 REF: 000029-02:59
INV:
PO: DEPT:



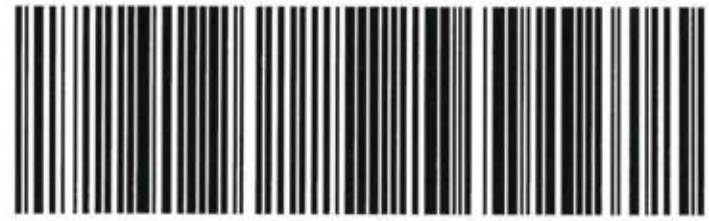
FedEx Ship Manager - Print Your Label(s)

TUE - 26 NOV 10:30A
PRIORITY OVERNIGHT

1 of 2
TRK# 7770 7713 9140
0201
MASTER

XE PYMA

02048
MA-US BOS



B = 0.8°C
5623

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Alpha Summary Forms

Organic Summary Forms

Results Summary
Form 1
Perchlorate by IC/MS/MS

Client	: Anchor QEA, LLC	Lab Number	: L1957339
Project Name	: GASCO PDI	Project Number	: 000029-02.59
Lab ID	: L1957339-03	Date Collected	: 11/18/19 00:00
Client ID	: PDI-1138RAB-00-10-191118	Date Received	: 11/27/19
Sample Location	: SEATTLE, WA	Date Analyzed	: 12/11/19 18:34
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 72,6860	Analyst	: AMM
Lab File ID	: --	Instrument ID	: IC/MS/MS
Sample Amount	:	%Solids	: 85

CAS NO.	Parameter	Results	ug/Kg		MDL	Qualifier
			RL			
14797-73-0	Perchlorate	0.135	0.567		0.024	J



Results Summary
Form 1
Perchlorate by IC/MS/MS

Client : Anchor QEA, LLC Project Name : GASCO PDI Lab ID : L1957339-04 Client ID : PDI-138RAB-00-10-191118 Sample Location : SEATTLE, WA Sample Matrix : SOIL Analytical Method : 72,6860 Lab File ID : -- Sample Amount :	Lab Number : L1957339 Project Number : 000029-02.59 Date Collected : 11/18/19 11:40 Date Received : 11/27/19 Date Analyzed : 12/11/19 18:46 Dilution Factor : 1 Analyst : AMM Instrument ID : IC/MS/MS %Solids : 86
---	--

CAS NO.	Parameter	Results	ug/Kg RL	MDL	Qualifier
14797-73-0	Perchlorate	0.075	0.576	0.025	J



Results Summary
Form 1
Perchlorate by IC/MS/MS

Client	: Anchor QEA, LLC	Lab Number	: L1957339
Project Name	: GASCO PDI	Project Number	: 000029-02.59
Lab ID	: L1957339-05	Date Collected	: 11/18/19 12:40
Client ID	: PDI-138RAB-10-19.1-191118	Date Received	: 11/27/19
Sample Location	: SEATTLE, WA	Date Analyzed	: 12/11/19 18:58
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 72,6860	Analyst	: AMM
Lab File ID	: --	Instrument ID	: IC/MS/MS
Sample Amount	:	%Solids	: 79

CAS NO.	Parameter	Results	ug/Kg		MDL	Qualifier
			RL			
14797-73-0	Perchlorate	0.132	0.668		0.029	J



Results Summary
Form 1
Perchlorate by IC/MS/MS

Client	: Anchor QEA, LLC	Lab Number	: L1957339
Project Name	: GASCO PDI	Project Number	: 000029-02.59
Lab ID	: L1957339-07	Date Collected	: 11/15/19 12:40
Client ID	: PDI-139RAB-00-10-191115	Date Received	: 11/27/19
Sample Location	: SEATTLE, WA	Date Analyzed	: 12/11/19 19:10
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 72,6860	Analyst	: AMM
Lab File ID	: --	Instrument ID	: IC/MS/MS
Sample Amount	:	%Solids	: 78

CAS NO.	Parameter	Results	ug/Kg		Qualifier
			RL	MDL	
14797-73-0	Perchlorate	ND	0.662	0.028	U



Results Summary
Form 1
Perchlorate by IC/MS/MS

Client : Anchor QEA, LLC Project Name : GASCO PDI Lab ID : L1957339-08 Client ID : PDI-139RAB-10-20-191115 Sample Location : SEATTLE, WA Sample Matrix : SOIL Analytical Method : 72,6860 Lab File ID : -- Sample Amount :	Lab Number : L1957339 Project Number : 000029-02.59 Date Collected : 11/15/19 14:40 Date Received : 11/27/19 Date Analyzed : 12/11/19 19:22 Dilution Factor : 1 Analyst : AMM Instrument ID : IC/MS/MS %Solids : 80
---	--

CAS NO.	Parameter	Results	ug/Kg RL	MDL	Qualifier
14797-73-0	Perchlorate	ND	0.590	0.025	U



Results Summary
Form 1
Perchlorate by IC/MS/MS

Client : Anchor QEA, LLC	Lab Number : L1957339
Project Name : GASCO PDI	Project Number : 000029-02.59
Lab ID : L1957339-09	Date Collected : 11/18/19 08:30
Client ID : PDI-139RAB-20-25.5-191118	Date Received : 11/27/19
Sample Location : SEATTLE, WA	Date Analyzed : 12/11/19 19:34
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 72,6860	Analyst : AMM
Lab File ID : --	Instrument ID : IC/MS/MS
Sample Amount :	%Solids : 74

CAS NO.	Parameter	Results	ug/Kg RL	MDL	Qualifier
14797-73-0	Perchlorate	ND	0.646	0.028	U



Results Summary
Form 1
Perchlorate by IC/MS/MS

Client : Anchor QEA, LLC Project Name : GASCO PDI Lab ID : L1957339-11 Client ID : PDI-145RAB-00-10-191114 Sample Location : SEATTLE, WA Sample Matrix : SOIL Analytical Method : 72,6860 Lab File ID : -- Sample Amount :	Lab Number : L1957339 Project Number : 000029-02.59 Date Collected : 11/14/19 09:15 Date Received : 11/27/19 Date Analyzed : 12/11/19 19:46 Dilution Factor : 1 Analyst : AMM Instrument ID : IC/MS/MS %Solids : 90
---	--

CAS NO.	Parameter	Results	ug/Kg RL	MDL	Qualifier
14797-73-0	Perchlorate	ND	0.547	0.023	U



Results Summary
Form 1
Perchlorate by IC/MS/MS

Client : Anchor QEA, LLC Project Name : GASCO PDI Lab ID : L1957339-12 Client ID : PDI-145RAB-10-20-191114 Sample Location : SEATTLE, WA Sample Matrix : SOIL Analytical Method : 72,6860 Lab File ID : -- Sample Amount :	Lab Number : L1957339 Project Number : 000029-02.59 Date Collected : 11/14/19 10:30 Date Received : 11/27/19 Date Analyzed : 12/11/19 19:58 Dilution Factor : 1 Analyst : AMM Instrument ID : IC/MS/MS %Solids : 91
---	--

CAS NO.	Parameter	Results	ug/Kg RL	MDL	Qualifier
14797-73-0	Perchlorate	ND	0.504	0.022	U



Results Summary
Form 1
Perchlorate by IC/MS/MS

Client : Anchor QEA, LLC	Lab Number : L1957339
Project Name : GASCO PDI	Project Number : 000029-02.59
Lab ID : L1957339-13	Date Collected : 11/14/19 11:05
Client ID : PDI-145RAB-20-24.7-191114	Date Received : 11/27/19
Sample Location : SEATTLE, WA	Date Analyzed : 12/11/19 20:10
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 72,6860	Analyst : AMM
Lab File ID : --	Instrument ID : IC/MS/MS
Sample Amount :	%Solids : 92

CAS NO.	Parameter	Results	ug/Kg RL	MDL	Qualifier
14797-73-0	Perchlorate	ND	0.521	0.022	U



Results Summary
Form 1
Perchlorate by IC/MS/MS

Client : Anchor QEA, LLC Project Name : GASCO PDI Lab ID : L1957339-14 Client ID : PDI-134RAB-00-10-191120 Sample Location : SEATTLE, WA Sample Matrix : SOIL Analytical Method : 72,6860 Lab File ID : -- Sample Amount :	Lab Number : L1957339 Project Number : 000029-02.59 Date Collected : 11/20/19 14:45 Date Received : 11/27/19 Date Analyzed : 12/12/19 19:20 Dilution Factor : 1 Analyst : AMM Instrument ID : IC/MS/MS %Solids : 82
---	--

CAS NO.	Parameter	Results	ug/Kg RL	MDL	Qualifier
14797-73-0	Perchlorate	ND	0.598	0.026	U



Results Summary
Form 1
Perchlorate by IC/MS/MS

Client	: Anchor QEA, LLC	Lab Number	: L1957339
Project Name	: GASCO PDI	Project Number	: 000029-02.59
Lab ID	: L1957339-15	Date Collected	: 11/20/19 15:30
Client ID	: PDI-134RAB-10-20-191120	Date Received	: 11/27/19
Sample Location	: SEATTLE, WA	Date Analyzed	: 12/12/19 19:32
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 72,6860	Analyst	: AMM
Lab File ID	: --	Instrument ID	: IC/MS/MS
Sample Amount	:	%Solids	: 75

CAS NO.	Parameter	Results	ug/Kg		MDL	Qualifier
			RL			
14797-73-0	Perchlorate	ND	0.653		0.028	U



Results Summary
Form 1
Perchlorate by IC/MS/MS

Client	: Anchor QEA, LLC	Lab Number	: L1957339
Project Name	: GASCO PDI	Project Number	: 000029-02.59
Lab ID	: L1957339-16	Date Collected	: 11/20/19 15:55
Client ID	: PDI-134RAB-20-25.5-191120	Date Received	: 11/27/19
Sample Location	: SEATTLE, WA	Date Analyzed	: 12/12/19 19:44
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 72,6860	Analyst	: AMM
Lab File ID	: --	Instrument ID	: IC/MS/MS
Sample Amount	:	%Solids	: 81

CAS NO.	Parameter	Results	ug/Kg		MDL	Qualifier
			RL			
14797-73-0	Perchlorate	1.92	0.584		0.025	



Results Summary
Form 1
Perchlorate by IC/MS/MS

Client : Anchor QEA, LLC Project Name : GASCO PDI Lab ID : L1957339-18 Client ID : PDI-135RAB-00-10-191120 Sample Location : SEATTLE, WA Sample Matrix : SOIL Analytical Method : 72,6860 Lab File ID : -- Sample Amount :	Lab Number : L1957339 Project Number : 000029-02.59 Date Collected : 11/20/19 09:20 Date Received : 11/27/19 Date Analyzed : 12/12/19 19:56 Dilution Factor : 1 Analyst : AMM Instrument ID : IC/MS/MS %Solids : 83
---	--

CAS NO.	Parameter	Results	ug/Kg RL	MDL	Qualifier
14797-73-0	Perchlorate	0.037	0.547	0.023	J



Results Summary
Form 1
Perchlorate by IC/MS/MS

Client : Anchor QEA, LLC Project Name : GASCO PDI Lab ID : L1957339-19 Client ID : PDI-135RAB-10-20-191120 Sample Location : SEATTLE, WA Sample Matrix : SOIL Analytical Method : 72,6860 Lab File ID : -- Sample Amount :	Lab Number : L1957339 Project Number : 000029-02.59 Date Collected : 11/20/19 09:55 Date Received : 11/27/19 Date Analyzed : 12/12/19 20:08 Dilution Factor : 1 Analyst : AMM Instrument ID : IC/MS/MS %Solids : 83
---	--

CAS NO.	Parameter	Results	ug/Kg RL	MDL	Qualifier
14797-73-0	Perchlorate	0.058	0.550	0.024	J



Results Summary
Form 1
Perchlorate by IC/MS/MS

Client : Anchor QEA, LLC Project Name : GASCO PDI Lab ID : L1957339-20 Client ID : PDI-135RAB-20-26.2-191120 Sample Location : SEATTLE, WA Sample Matrix : SOIL Analytical Method : 72,6860 Lab File ID : -- Sample Amount :	Lab Number : L1957339 Project Number : 000029-02.59 Date Collected : 11/20/19 11:00 Date Received : 11/27/19 Date Analyzed : 12/12/19 20:20 Dilution Factor : 1 Analyst : AMM Instrument ID : IC/MS/MS %Solids : 82
---	--

CAS NO.	Parameter	Results	ug/Kg RL	MDL	Qualifier
14797-73-0	Perchlorate	0.380	0.548	0.023	J



Results Summary
Form 1
Perchlorate by IC/MS/MS

Client : Anchor QEA, LLC Project Name : GASCO PDI Lab ID : L1957339-21 Client ID : PDI-136RAB-00-10-191119 Sample Location : SEATTLE, WA Sample Matrix : SOIL Analytical Method : 72,6860 Lab File ID : -- Sample Amount :	Lab Number : L1957339 Project Number : 000029-02.59 Date Collected : 11/19/19 09:20 Date Received : 11/27/19 Date Analyzed : 12/13/19 15:03 Dilution Factor : 1 Analyst : AMM Instrument ID : IC/MS/MS %Solids : 81
---	--

CAS NO.	Parameter	Results	ug/Kg RL	MDL	Qualifier
14797-73-0	Perchlorate	0.136	0.597	0.026	J



Results Summary
Form 1
Perchlorate by IC/MS/MS

Client : Anchor QEA, LLC Project Name : GASCO PDI Lab ID : L1957339-22 Client ID : PDI-136RAB-10-13.4-191119 Sample Location : SEATTLE, WA Sample Matrix : SOIL Analytical Method : 72,6860 Lab File ID : -- Sample Amount :	Lab Number : L1957339 Project Number : 000029-02.59 Date Collected : 11/19/19 10:00 Date Received : 11/27/19 Date Analyzed : 12/12/19 20:44 Dilution Factor : 1 Analyst : AMM Instrument ID : IC/MS/MS %Solids : 84
---	--

CAS NO.	Parameter	Results	ug/Kg RL	MDL	Qualifier
14797-73-0	Perchlorate	0.160	0.550	0.024	J



Results Summary
Form 1
Perchlorate by IC/MS/MS

Client : Anchor QEA, LLC	Lab Number : L1957339
Project Name : GASCO PDI	Project Number : 000029-02.59
Lab ID : L1957339-24	Date Collected : 11/19/19 12:15
Client ID : PDI-137RAB-00-10-191119	Date Received : 11/27/19
Sample Location : SEATTLE, WA	Date Analyzed : 12/12/19 20:56
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 72,6860	Analyst : AMM
Lab File ID : --	Instrument ID : IC/MS/MS
Sample Amount :	%Solids : 82

CAS NO.	Parameter	Results	ug/Kg RL	MDL	Qualifier
14797-73-0	Perchlorate	0.142	0.635	0.027	J



Results Summary
Form 1
Perchlorate by IC/MS/MS

Client : Anchor QEA, LLC Project Name : GASCO PDI Lab ID : L1957339-25 Client ID : PDI-137RAB-10-17.7-191119 Sample Location : SEATTLE, WA Sample Matrix : SOIL Analytical Method : 72,6860 Lab File ID : -- Sample Amount :	Lab Number : L1957339 Project Number : 000029-02.59 Date Collected : 11/19/19 12:50 Date Received : 11/27/19 Date Analyzed : 12/12/19 21:08 Dilution Factor : 1 Analyst : AMM Instrument ID : IC/MS/MS %Solids : 79
---	--

CAS NO.	Parameter	Results	ug/Kg RL	MDL	Qualifier
14797-73-0	Perchlorate	0.134	0.577	0.025	J



Results Summary
Form 1
Perchlorate by IC/MS/MS

Client : Anchor QEA, LLC	Lab Number : L1957339
Project Name : GASCO PDI	Project Number : 000029-02.59
Lab ID : WG1321406-1	Date Collected : NA
Client ID : WG1321406-1BLANK	Date Received : NA
Sample Location :	Date Analyzed : 12/11/19 17:46
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 72,6860	Analyst : AMM
Lab File ID : --	Instrument ID : IC/MS/MS
Sample Amount :	%Solids : NA

CAS NO.	Parameter	Results	ug/Kg RL	MDL	Qualifier
14797-73-0	Perchlorate	ND	0.489	0.021	U



Results Summary
Form 1
Perchlorate by IC/MS/MS

Client : Anchor QEA, LLC	Lab Number : L1957339
Project Name : GASCO PDI	Project Number : 000029-02.59
Lab ID : WG1321415-1	Date Collected : NA
Client ID : WG1321415-1BLANK	Date Received : NA
Sample Location :	Date Analyzed : 12/12/19 18:32
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 72,6860	Analyst : AMM
Lab File ID : --	Instrument ID : IC/MS/MS
Sample Amount :	%Solids : NA

CAS NO.	Parameter	Results	ug/Kg RL	MDL	Qualifier
14797-73-0	Perchlorate	ND	0.516	0.022	U



**Laboratory Control Sample Summary
Form 3
Wetchem**

Client	: Anchor QEA, LLC	Lab Number	: L1957339
Project Name	: GASCO PDI	Project Number	: 000029-02.59
Matrix	: SOIL		
LCS Sample ID	: WG1321406-2	Analysis Date	: 12/11/19 17:58
LCSD Sample ID	:	File ID	:

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R			
Perchlorate	9.42	9.89	105				-	80-120	20



**Laboratory Control Sample Summary
Form 3
Wetchem**

Client	: Anchor QEA, LLC	Lab Number	: L1957339
Project Name	: GASCO PDI	Project Number	: 000029-02.59
Matrix	: SOIL		
LCS Sample ID	: WG1321415-2	Analysis Date	: 12/12/19 18:44
LCSD Sample ID	:	File ID	:

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R			
Perchlorate	9.37	9.56	102				-	80-120	20



Matrix Spike Sample Summary

Form 3

Wetchem

Client : Anchor QEA, LLC	Lab Number : L1957339
Project Name : GASCO PDI	Project Number : 000029-02.59
Client Sample ID : PDI-145RAB-00-10-191114	Matrix : SOIL
Lab Sample ID : L1957339-11	Analysis Date : 12/11/19 19:46
Matrix Spike : WG1321406-3	MS Analysis Date : 12/13/19 11:36
Matrix Spike Dup : WG1321406-4	MSD Analysis Date : 12/13/19 11:48

Parameter	Sample Conc. (ug/kg)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R			
Perchlorate	ND	0.58	0.677	117	0.579	0.682	118	1	70-130	30



Matrix Spike Sample Summary

Form 3

Wetchem

Client : Anchor QEA, LLC	Lab Number : L1957339
Project Name : GASCO PDI	Project Number : 000029-02.59
Client Sample ID : PDI-135RAB-10-20-191120	Matrix : SOIL
Lab Sample ID : L1957339-19	Analysis Date : 12/12/19 20:08
Matrix Spike : WG1321415-3	MS Analysis Date : 12/13/19 12:00
Matrix Spike Dup : WG1321415-4	MSD Analysis Date : 12/13/19 12:12

Parameter	Sample Conc. (ug/kg)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R			
Perchlorate	0.058J	0.618	0.804	130	0.627	0.738	118	9	70-130	30



Method Blank Summary
Form 4
Wetchem

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Lab Sample ID : WG1321406-1
Instrument ID : IC/MS/MS
Matrix : SOIL
Level : LOW

Lab Number : L1957339
Project Number : 000029-02.59
Lab File ID :
Extraction Date : 12/11/19
Analysis Date : 12/11/19 17:46

Client Sample No.

Lab Sample ID

Analysis Date



**Method Blank Summary
Form 4
Wetchem**

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Lab Sample ID : WG1321415-1
Instrument ID : IC/MS/MS
Matrix : SOIL
Level : LOW

Lab Number : L1957339
Project Number : 000029-02.59
Lab File ID :
Extraction Date : 12/12/19
Analysis Date : 12/12/19 18:32

Client Sample No.

Lab Sample ID

Analysis Date



**Results Summary
Form 1
Chlorinated Herbicides by GC**

Client : Anchor QEA, LLC
 Project Name : GASCO PDI
 Lab ID : L1957339-01
 Client ID : PDI-FB-1911191346
 Sample Location : SEATTLE, WA
 Sample Matrix : WATER
 Analytical Method : 1,8151A
 Lab File ID : 17191203a-11
 Sample Amount : 1000 ml
 Extraction Method : EPA 8151A
 Extract Volume : 10000 uL
 GPC Cleanup : N
 Sulfur Cleanup : N

Lab Number : L1957339
 Project Number : 000029-02.59
 Date Collected : 11/19/19 13:46
 Date Received : 11/27/19
 Date Analyzed : 12/04/19 02:34
 Date Extracted : 11/28/19
 Dilution Factor : 1
 Analyst : DGM
 Instrument ID : PEST17
 GC Column : STX-CLP1
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
93-65-2	MCPP	ND	500	58.5	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U



Results Summary
Form 1
Chlorinated Herbicides by GC

Client : Anchor QEA, LLC
 Project Name : GASCO PDI
 Lab ID : L1957339-01
 Client ID : PDI-FB-1911191346
 Sample Location : SEATTLE, WA
 Sample Matrix : WATER
 Analytical Method : 1,8151A
 Lab File ID : 17191203a-11
 Sample Amount : 1000 ml
 Extraction Method : EPA 8151A
 Extract Volume : 10000 uL
 GPC Cleanup : N
 Sulfur Cleanup : N

Lab Number : L1957339
 Project Number : 000029-02.59
 Date Collected : 11/19/19 13:46
 Date Received : 11/27/19
 Date Analyzed : 12/04/19 02:34
 Date Extracted : 11/28/19
 Dilution Factor : 1
 Analyst : DGM
 Instrument ID : PEST17
 GC Column : STX-CLP2
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
94-74-6	MCPA	ND	500	63.2	U
120-36-5	Dichloroprop	ND	10.0	0.564	U



Results Summary
Form 1
Chlorinated Herbicides by GC

Client : Anchor QEA, LLC
 Project Name : GASCO PDI
 Lab ID : L1957339-02
 Client ID : PDI-RB-1911191254
 Sample Location : SEATTLE, WA
 Sample Matrix : WATER
 Analytical Method : 1,8151A
 Lab File ID : 17191203a-10
 Sample Amount : 1000 ml
 Extraction Method : EPA 8151A
 Extract Volume : 10000 uL
 GPC Cleanup : N
 Sulfur Cleanup : N

Lab Number : L1957339
 Project Number : 000029-02.59
 Date Collected : 11/19/19 12:54
 Date Received : 11/27/19
 Date Analyzed : 12/04/19 02:15
 Date Extracted : 11/28/19
 Dilution Factor : 1
 Analyst : DGM
 Instrument ID : PEST17
 GC Column : STX-CLP1
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
93-65-2	MCPP	ND	500	58.5	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U



**Results Summary
Form 1
Chlorinated Herbicides by GC**

Client : Anchor QEA, LLC
 Project Name : GASCO PDI
 Lab ID : L1957339-02
 Client ID : PDI-RB-1911191254
 Sample Location : SEATTLE, WA
 Sample Matrix : WATER
 Analytical Method : 1,8151A
 Lab File ID : 17191203a-10
 Sample Amount : 1000 ml
 Extraction Method : EPA 8151A
 Extract Volume : 10000 uL
 GPC Cleanup : N
 Sulfur Cleanup : N

Lab Number : L1957339
 Project Number : 000029-02.59
 Date Collected : 11/19/19 12:54
 Date Received : 11/27/19
 Date Analyzed : 12/04/19 02:15
 Date Extracted : 11/28/19
 Dilution Factor : 1
 Analyst : DGM
 Instrument ID : PEST17
 GC Column : STX-CLP2
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
94-74-6	MCPA	ND	500	63.2	U
120-36-5	Dichloroprop	ND	10.0	0.564	U



Results Summary
Form 1
Chlorinated Herbicides by GC

Client : Anchor QEA, LLC Project Name : GASCO PDI Lab ID : L1957339-03 Client ID : PDI-1138RAB-00-10-191118 Sample Location : SEATTLE, WA Sample Matrix : SOIL Analytical Method : 1,8151A Lab File ID : 17191202a-29 Sample Amount : 30.4 g Extraction Method : EPA 8151A Extract Volume : 10000 uL GPC Cleanup : N Sulfur Cleanup : N	Lab Number : L1957339 Project Number : 000029-02.59 Date Collected : 11/18/19 00:00 Date Received : 11/27/19 Date Analyzed : 12/02/19 21:26 Date Extracted : 11/28/19 Dilution Factor : 1 Analyst : DGM Instrument ID : PEST17 GC Column : STX-CLP1 %Solids : 85 Injection Volume : 1 uL
--	---

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
93-65-2	MCPPP	ND	3850	1210	U
75-99-0	Dalapon	ND	38.5	12.6	U
1918-00-9	Dicamba	ND	38.5	6.47	U
94-75-7	2,4-D	ND	192	12.1	U
94-82-6	2,4-DB	ND	192	9.90	U
93-76-5	2,4,5-T	ND	192	5.97	U
93-72-1	2,4,5-TP (Silvex)	ND	192	5.12	U



Results Summary
Form 1
Chlorinated Herbicides by GC

<p>Client : Anchor QEA, LLC Project Name : GASCO PDI Lab ID : L1957339-03 Client ID : PDI-1138RAB-00-10-191118 Sample Location : SEATTLE, WA Sample Matrix : SOIL Analytical Method : 1,8151A Lab File ID : 17191202a-29 Sample Amount : 30.4 g Extraction Method : EPA 8151A Extract Volume : 10000 uL GPC Cleanup : N Sulfur Cleanup : N</p>	<p>Lab Number : L1957339 Project Number : 000029-02.59 Date Collected : 11/18/19 00:00 Date Received : 11/27/19 Date Analyzed : 12/02/19 21:26 Date Extracted : 11/28/19 Dilution Factor : 1 Analyst : DGM Instrument ID : PEST17 GC Column : STX-CLP2 %Solids : 85 Injection Volume : 1 uL</p>
--	--

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
94-74-6	MCPA	ND	3850	1090	U
120-36-5	Dichloroprop	ND	38.5	11.0	U



Results Summary

Form 1

Chlorinated Herbicides by GC

Client : Anchor QEA, LLC	Lab Number : L1957339
Project Name : GASCO PDI	Project Number : 000029-02.59
Lab ID : L1957339-04	Date Collected : 11/18/19 11:40
Client ID : PDI-138RAB-00-10-191118	Date Received : 11/27/19
Sample Location : SEATTLE, WA	Date Analyzed : 12/02/19 21:44
Sample Matrix : SOIL	Date Extracted : 11/28/19
Analytical Method : 1,8151A	Dilution Factor : 1
Lab File ID : 17191202a-30	Analyst : DGM
Sample Amount : 30.51 g	Instrument ID : PEST17
Extraction Method : EPA 8151A	GC Column : STX-CLP1
Extract Volume : 10000 uL	%Solids : 86
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
93-65-2	MCPPP	ND	3830	1210	U
75-99-0	Dalapon	ND	38.3	12.5	U
1918-00-9	Dicamba	ND	38.3	6.44	U
94-75-7	2,4-D	ND	192	12.1	U
94-82-6	2,4-DB	ND	192	9.85	U
93-76-5	2,4,5-T	ND	192	5.94	U
93-72-1	2,4,5-TP (Silvex)	ND	192	5.10	U



Results Summary
Form 1
Chlorinated Herbicides by GC

Client : Anchor QEA, LLC Project Name : GASCO PDI Lab ID : L1957339-04 Client ID : PDI-138RAB-00-10-191118 Sample Location : SEATTLE, WA Sample Matrix : SOIL Analytical Method : 1,8151A Lab File ID : 17191202a-30 Sample Amount : 30.51 g Extraction Method : EPA 8151A Extract Volume : 10000 uL GPC Cleanup : N Sulfur Cleanup : N	Lab Number : L1957339 Project Number : 000029-02.59 Date Collected : 11/18/19 11:40 Date Received : 11/27/19 Date Analyzed : 12/02/19 21:44 Date Extracted : 11/28/19 Dilution Factor : 1 Analyst : DGM Instrument ID : PEST17 GC Column : STX-CLP2 %Solids : 86 Injection Volume : 1 uL
--	---

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
94-74-6	MCPA	ND	3830	1080	U
120-36-5	Dichloroprop	ND	38.3	11.0	U



**Results Summary
Form 1
Chlorinated Herbicides by GC**

Client	: Anchor QEA, LLC	Lab Number	: L1957339
Project Name	: GASCO PDI	Project Number	: 000029-02.59
Lab ID	: L1957339-05	Date Collected	: 11/18/19 12:40
Client ID	: PDI-138RAB-10-19.1-191118	Date Received	: 11/27/19
Sample Location	: SEATTLE, WA	Date Analyzed	: 12/02/19 22:03
Sample Matrix	: SOIL	Date Extracted	: 11/28/19
Analytical Method	: 1,8151A	Dilution Factor	: 1
Lab File ID	: 17191202a-31	Analyst	: DGM
Sample Amount	: 30.54 g	Instrument ID	: PEST17
Extraction Method	: EPA 8151A	GC Column	: STX-CLP1
Extract Volume	: 10000 uL	%Solids	: 79
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
93-65-2	MCPPP	ND	4120	1300	U
75-99-0	Dalapon	ND	41.2	13.5	U
1918-00-9	Dicamba	ND	41.2	6.93	U
94-75-7	2,4-D	ND	206	13.0	U
94-82-6	2,4-DB	ND	206	10.6	U
93-76-5	2,4,5-T	ND	206	6.39	U
93-72-1	2,4,5-TP (Silvex)	ND	206	5.48	U



Results Summary
Form 1
Chlorinated Herbicides by GC

Client : Anchor QEA, LLC Project Name : GASCO PDI Lab ID : L1957339-05 Client ID : PDI-138RAB-10-19.1-191118 Sample Location : SEATTLE, WA Sample Matrix : SOIL Analytical Method : 1,8151A Lab File ID : 17191202a-31 Sample Amount : 30.54 g Extraction Method : EPA 8151A Extract Volume : 10000 uL GPC Cleanup : N Sulfur Cleanup : N	Lab Number : L1957339 Project Number : 000029-02.59 Date Collected : 11/18/19 12:40 Date Received : 11/27/19 Date Analyzed : 12/02/19 22:03 Date Extracted : 11/28/19 Dilution Factor : 1 Analyst : DGM Instrument ID : PEST17 GC Column : STX-CLP2 %Solids : 79 Injection Volume : 1 uL
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CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
94-74-6	MCPA	ND	4120	1170	U
120-36-5	Dichloroprop	ND	41.2	11.8	U



Results Summary
Form 1
TCLP Herbicides by EPA 1311

Client : Anchor QEA, LLC Project Name : GASCO PDI Lab ID : L1957339-06 Client ID : PDI-138RAB-C-00-19.1-191118 Sample Location : SEATTLE, WA Sample Matrix : SOIL Analytical Method : 1,8151A Lab File ID : 22191210a-32 Sample Amount : 200 ml Extraction Method : EPA 8151A Extract Volume : 5000 uL GPC Cleanup : N Sulfur Cleanup : N	Lab Number : L1957339 Project Number : 000029-02.59 Date Collected : 11/18/19 13:15 Date Received : 11/27/19 Date Analyzed : 12/10/19 21:20 Date Extracted : 12/04/19 Dilution Factor : 1 Analyst : JMC Instrument ID : PEST22 GC Column : STX-CLP1 %Solids : 82 Injection Volume : 1 uL
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CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
94-75-7	2,4-D	ND	0.025	0.001	U
93-72-1	2,4,5-TP (Silvex)	ND	0.005	0.001	U



Results Summary
Form 1
Chlorinated Herbicides by GC

Client : Anchor QEA, LLC	Lab Number : L1957339
Project Name : GASCO PDI	Project Number : 000029-02.59
Lab ID : L1957339-07	Date Collected : 11/15/19 12:40
Client ID : PDI-139RAB-00-10-191115	Date Received : 11/27/19
Sample Location : SEATTLE, WA	Date Analyzed : 12/07/19 14:08
Sample Matrix : SOIL	Date Extracted : 11/28/19
Analytical Method : 1,8151A	Dilution Factor : 1
Lab File ID : 17191206a-86	Analyst : JMC
Sample Amount : 30.35 g	Instrument ID : PEST17
Extraction Method : EPA 8151A	GC Column : STX-CLP2
Extract Volume : 10000 uL	%Solids : 78
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
93-65-2	MCPPP	ND	4210	1330	U
94-74-6	MCPA	ND	4210	1190	U
75-99-0	Dalapon	ND	42.1	13.8	U
1918-00-9	Dicamba	ND	42.1	7.08	U
120-36-5	Dichloroprop	ND	42.1	12.1	U
94-75-7	2,4-D	ND	211	13.3	U
94-82-6	2,4-DB	ND	211	10.8	U
93-76-5	2,4,5-T	ND	211	6.53	U
93-72-1	2,4,5-TP (Silvex)	ND	211	5.60	U



Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Anchor QEA, LLC	Lab Number	: L1957339
Project Name	: GASCO PDI	Project Number	: 000029-02.59
Lab ID	: L1957339-08	Date Collected	: 11/15/19 14:40
Client ID	: PDI-139RAB-10-20-191115	Date Received	: 11/27/19
Sample Location	: SEATTLE, WA	Date Analyzed	: 12/07/19 14:26
Sample Matrix	: SOIL	Date Extracted	: 11/28/19
Analytical Method	: 1,8151A	Dilution Factor	: 1
Lab File ID	: 17191206a-87	Analyst	: JMC
Sample Amount	: 30.4 g	Instrument ID	: PEST17
Extraction Method	: EPA 8151A	GC Column	: STX-CLP2
Extract Volume	: 10000 uL	%Solids	: 80
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
93-65-2	MCPPP	ND	4120	1300	U
94-74-6	MCPA	ND	4120	1160	U
75-99-0	Dalapon	ND	41.2	13.5	U
1918-00-9	Dicamba	ND	41.2	6.92	U
120-36-5	Dichloroprop	ND	41.2	11.8	U
94-75-7	2,4-D	ND	206	13.0	U
94-82-6	2,4-DB	ND	206	10.6	U
93-76-5	2,4,5-T	ND	206	6.38	U
93-72-1	2,4,5-TP (Silvex)	ND	206	5.48	U



**Results Summary
Form 1
Chlorinated Herbicides by GC**

Client : Anchor QEA, LLC	Lab Number : L1957339
Project Name : GASCO PDI	Project Number : 000029-02.59
Lab ID : L1957339-09	Date Collected : 11/18/19 08:30
Client ID : PDI-139RAB-20-25.5-191118	Date Received : 11/27/19
Sample Location : SEATTLE, WA	Date Analyzed : 12/07/19 14:45
Sample Matrix : SOIL	Date Extracted : 12/01/19
Analytical Method : 1,8151A	Dilution Factor : 1
Lab File ID : 17191206a-88	Analyst : JMC
Sample Amount : 30.17 g	Instrument ID : PEST17
Extraction Method : EPA 8151A	GC Column : STX-CLP2
Extract Volume : 10000 uL	%Solids : 74
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
93-65-2	MCPPP	ND	4460	1400	U
94-74-6	MCPA	ND	4460	1260	U
75-99-0	Dalapon	ND	44.6	14.6	U
1918-00-9	Dicamba	ND	44.6	7.48	U
120-36-5	Dichloroprop	ND	44.6	12.8	U
94-75-7	2,4-D	ND	223	14.0	U
94-82-6	2,4-DB	ND	223	11.4	U
93-76-5	2,4,5-T	ND	223	6.90	U
93-72-1	2,4,5-TP (Silvex)	ND	223	5.92	U



Results Summary
Form 1
TCLP Herbicides by EPA 1311

Client : Anchor QEA, LLC Project Name : GASCO PDI Lab ID : L1957339-10 Client ID : PDI-144RAB-C-00-29-191114 Sample Location : SEATTLE, WA Sample Matrix : SOIL Analytical Method : 1,8151A Lab File ID : 22191210a-33 Sample Amount : 200 ml Extraction Method : EPA 8151A Extract Volume : 5000 uL GPC Cleanup : N Sulfur Cleanup : N	Lab Number : L1957339 Project Number : 000029-02.59 Date Collected : 11/14/19 16:00 Date Received : 11/27/19 Date Analyzed : 12/10/19 21:38 Date Extracted : 12/04/19 Dilution Factor : 1 Analyst : JMC Instrument ID : PEST22 GC Column : STX-CLP1 %Solids : 92 Injection Volume : 1 uL
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CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
94-75-7	2,4-D	ND	0.025	0.001	U
93-72-1	2,4,5-TP (Silvex)	ND	0.005	0.001	U



Results Summary
Form 1
Chlorinated Herbicides by GC

Client : Anchor QEA, LLC
 Project Name : GASCO PDI
 Lab ID : L1957339-11
 Client ID : PDI-145RAB-00-10-191114
 Sample Location : SEATTLE, WA
 Sample Matrix : SOIL
 Analytical Method : 1,8151A
 Lab File ID : 17191206a-89
 Sample Amount : 30.29 g
 Extraction Method : EPA 8151A
 Extract Volume : 10000 uL
 GPC Cleanup : N
 Sulfur Cleanup : N

Lab Number : L1957339
 Project Number : 000029-02.59
 Date Collected : 11/14/19 09:15
 Date Received : 11/27/19
 Date Analyzed : 12/07/19 15:03
 Date Extracted : 11/28/19
 Dilution Factor : 1
 Analyst : JMC
 Instrument ID : PEST17
 GC Column : STX-CLP2
 %Solids : 90
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
93-65-2	MCPPP	ND	3670	1160	U
94-74-6	MCPA	ND	3670	1040	U
75-99-0	Dalapon	ND	36.7	12.0	U
1918-00-9	Dicamba	ND	36.7	6.16	U
120-36-5	Dichloroprop	ND	36.7	10.5	U
94-75-7	2,4-D	ND	183	11.6	U
94-82-6	2,4-DB	ND	183	9.43	U
93-76-5	2,4,5-T	ND	183	5.68	U
93-72-1	2,4,5-TP (Silvex)	ND	183	4.88	U



Results Summary
Form 1
Chlorinated Herbicides by GC

Client : Anchor QEA, LLC	Lab Number : L1957339
Project Name : GASCO PDI	Project Number : 000029-02.59
Lab ID : L1957339-12	Date Collected : 11/14/19 10:30
Client ID : PDI-145RAB-10-20-191114	Date Received : 11/27/19
Sample Location : SEATTLE, WA	Date Analyzed : 12/07/19 15:58
Sample Matrix : SOIL	Date Extracted : 11/28/19
Analytical Method : 1,8151A	Dilution Factor : 1
Lab File ID : 17191206a-92	Analyst : JMC
Sample Amount : 30.68 g	Instrument ID : PEST17
Extraction Method : EPA 8151A	GC Column : STX-CLP2
Extract Volume : 10000 uL	%Solids : 91
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
93-65-2	MCPPP	ND	3580	1130	U
94-74-6	MCPA	ND	3580	1010	U
75-99-0	Dalapon	ND	35.8	11.7	U
1918-00-9	Dicamba	ND	35.8	6.01	U
120-36-5	Dichloroprop	ND	35.8	10.3	U
94-75-7	2,4-D	ND	179	11.3	U
94-82-6	2,4-DB	ND	179	9.20	U
93-76-5	2,4,5-T	ND	179	5.54	U
93-72-1	2,4,5-TP (Silvex)	ND	179	4.76	U



Results Summary
Form 1
Chlorinated Herbicides by GC

Client : Anchor QEA, LLC
 Project Name : GASCO PDI
 Lab ID : L1957339-13
 Client ID : PDI-145RAB-20-24.7-191114
 Sample Location : SEATTLE, WA
 Sample Matrix : SOIL
 Analytical Method : 1,8151A
 Lab File ID : 17191206a-94
 Sample Amount : 30.49 g
 Extraction Method : EPA 8151A
 Extract Volume : 10000 uL
 GPC Cleanup : N
 Sulfur Cleanup : N

Lab Number : L1957339
 Project Number : 000029-02.59
 Date Collected : 11/14/19 11:05
 Date Received : 11/27/19
 Date Analyzed : 12/07/19 16:35
 Date Extracted : 11/28/19
 Dilution Factor : 1
 Analyst : JMC
 Instrument ID : PEST17
 GC Column : STX-CLP2
 %Solids : 92
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
93-65-2	MCPPP	ND	3580	1130	U
94-74-6	MCPA	ND	3580	1010	U
75-99-0	Dalapon	ND	35.8	11.7	U
1918-00-9	Dicamba	ND	35.8	6.01	U
120-36-5	Dichloroprop	ND	35.8	10.3	U
94-75-7	2,4-D	ND	179	11.3	U
94-82-6	2,4-DB	ND	179	9.19	U
93-76-5	2,4,5-T	ND	179	5.54	U
93-72-1	2,4,5-TP (Silvex)	ND	179	4.76	U



**Results Summary
Form 1
Chlorinated Herbicides by GC**

Client : Anchor QEA, LLC	Lab Number : L1957339
Project Name : GASCO PDI	Project Number : 000029-02.59
Lab ID : L1957339-14	Date Collected : 11/20/19 14:45
Client ID : PDI-134RAB-00-10-191120	Date Received : 11/27/19
Sample Location : SEATTLE, WA	Date Analyzed : 12/07/19 16:53
Sample Matrix : SOIL	Date Extracted : 12/03/19
Analytical Method : 1,8151A	Dilution Factor : 1
Lab File ID : 17191206a-95	Analyst : JMC
Sample Amount : 30.87 g	Instrument ID : PEST17
Extraction Method : EPA 8151A	GC Column : STX-CLP2
Extract Volume : 10000 uL	%Solids : 82
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
93-65-2	MCPPP	ND	3970	1250	U
94-74-6	MCPA	ND	3970	1120	U
75-99-0	Dalapon	ND	39.7	13.0	U
1918-00-9	Dicamba	ND	39.7	6.68	U
120-36-5	Dichloroprop	ND	39.7	11.4	U
94-75-7	2,4-D	ND	199	12.5	U
94-82-6	2,4-DB	ND	199	10.2	U
93-76-5	2,4,5-T	ND	199	6.16	U
93-72-1	2,4,5-TP (Silvex)	ND	199	5.29	U



**Results Summary
Form 1
Chlorinated Herbicides by GC**

Client : Anchor QEA, LLC	Lab Number : L1957339
Project Name : GASCO PDI	Project Number : 000029-02.59
Lab ID : L1957339-15	Date Collected : 11/20/19 15:30
Client ID : PDI-134RAB-10-20-191120	Date Received : 11/27/19
Sample Location : SEATTLE, WA	Date Analyzed : 12/07/19 17:11
Sample Matrix : SOIL	Date Extracted : 12/03/19
Analytical Method : 1,8151A	Dilution Factor : 1
Lab File ID : 17191206a-96	Analyst : JMC
Sample Amount : 15.15 g	Instrument ID : PEST17
Extraction Method : EPA 8151A	GC Column : STX-CLP2
Extract Volume : 10000 uL	%Solids : 75
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
93-65-2	MCPP	ND	8860	2790	U
94-74-6	MCPA	ND	8860	2510	U
75-99-0	Dalapon	ND	88.6	29.0	U
1918-00-9	Dicamba	ND	88.6	14.9	U
120-36-5	Dichloroprop	ND	88.6	25.4	U
94-75-7	2,4-D	ND	443	27.9	U
94-82-6	2,4-DB	ND	443	22.8	U
93-76-5	2,4,5-T	ND	443	13.7	U
93-72-1	2,4,5-TP (Silvex)	ND	443	11.8	U



Results Summary
Form 1
Chlorinated Herbicides by GC

Client : Anchor QEA, LLC	Lab Number : L1957339
Project Name : GASCO PDI	Project Number : 000029-02.59
Lab ID : L1957339-16	Date Collected : 11/20/19 15:55
Client ID : PDI-134RAB-20-25.5-191120	Date Received : 11/27/19
Sample Location : SEATTLE, WA	Date Analyzed : 12/07/19 17:30
Sample Matrix : SOIL	Date Extracted : 12/03/19
Analytical Method : 1,8151A	Dilution Factor : 1
Lab File ID : 17191206a-97	Analyst : JMC
Sample Amount : 15.97 g	Instrument ID : PEST17
Extraction Method : EPA 8151A	GC Column : STX-CLP2
Extract Volume : 10000 uL	%Solids : 81
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
93-65-2	MCPPP	ND	7730	2440	U
94-74-6	MCPA	ND	7730	2190	U
75-99-0	Dalapon	ND	77.3	25.3	U
1918-00-9	Dicamba	ND	77.3	13.0	U
120-36-5	Dichloroprop	ND	77.3	22.2	U
94-75-7	2,4-D	ND	386	24.4	U
94-82-6	2,4-DB	ND	386	19.9	U
93-76-5	2,4,5-T	ND	386	12.0	U
93-72-1	2,4,5-TP (Silvex)	ND	386	10.3	U



Results Summary
Form 1
TCLP Herbicides by EPA 1311

<p>Client : Anchor QEA, LLC Project Name : GASCO PDI Lab ID : L1957339-17 Client ID : PDI-134RAB-C-00-25.5-191120 Sample Location : SEATTLE, WA Sample Matrix : SOIL Analytical Method : 1,8151A Lab File ID : 22191210a-30 Sample Amount : 200 ml Extraction Method : EPA 8151A Extract Volume : 5000 uL GPC Cleanup : N Sulfur Cleanup : N</p>	<p>Lab Number : L1957339 Project Number : 000029-02.59 Date Collected : 11/20/19 16:15 Date Received : 11/27/19 Date Analyzed : 12/10/19 20:43 Date Extracted : 12/04/19 Dilution Factor : 1 Analyst : JMC Instrument ID : PEST22 GC Column : STX-CLP1 %Solids : 77 Injection Volume : 1 uL</p>
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CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
94-75-7	2,4-D	ND	0.025	0.001	U
93-72-1	2,4,5-TP (Silvex)	ND	0.005	0.001	U



Results Summary
Form 1
Chlorinated Herbicides by GC

Client : Anchor QEA, LLC	Lab Number : L1957339
Project Name : GASCO PDI	Project Number : 000029-02.59
Lab ID : L1957339-18	Date Collected : 11/20/19 09:20
Client ID : PDI-135RAB-00-10-191120	Date Received : 11/27/19
Sample Location : SEATTLE, WA	Date Analyzed : 12/07/19 17:48
Sample Matrix : SOIL	Date Extracted : 12/01/19
Analytical Method : 1,8151A	Dilution Factor : 1
Lab File ID : 17191206a-98	Analyst : JMC
Sample Amount : 30.92 g	Instrument ID : PEST17
Extraction Method : EPA 8151A	GC Column : STX-CLP2
Extract Volume : 10000 uL	%Solids : 83
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
93-65-2	MCPPP	ND	3890	1220	U
94-74-6	MCPA	ND	3890	1100	U
75-99-0	Dalapon	ND	38.9	12.7	U
1918-00-9	Dicamba	ND	38.9	6.54	U
120-36-5	Dichloroprop	ND	38.9	11.2	U
94-75-7	2,4-D	ND	194	12.2	U
94-82-6	2,4-DB	ND	194	10.0	U
93-76-5	2,4,5-T	ND	194	6.03	U
93-72-1	2,4,5-TP (Silvex)	ND	194	5.18	U



Results Summary
Form 1
Chlorinated Herbicides by GC

Client : Anchor QEA, LLC
 Project Name : GASCO PDI
 Lab ID : L1957339-19
 Client ID : PDI-135RAB-10-20-191120
 Sample Location : SEATTLE, WA
 Sample Matrix : SOIL
 Analytical Method : 1,8151A
 Lab File ID : 17191203a-07
 Sample Amount : 30.4 g
 Extraction Method : EPA 8151A
 Extract Volume : 10000 uL
 GPC Cleanup : N
 Sulfur Cleanup : N

Lab Number : L1957339
 Project Number : 000029-02.59
 Date Collected : 11/20/19 09:55
 Date Received : 11/27/19
 Date Analyzed : 12/04/19 01:20
 Date Extracted : 12/01/19
 Dilution Factor : 1
 Analyst : DGM
 Instrument ID : PEST17
 GC Column : STX-CLP1
 %Solids : 83
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
93-65-2	MCPP	ND	3950	1240	U
75-99-0	Dalapon	ND	39.5	12.9	U
1918-00-9	Dicamba	ND	39.5	6.64	U
94-75-7	2,4-D	ND	198	12.4	U
94-82-6	2,4-DB	ND	198	10.2	U
93-76-5	2,4,5-T	ND	198	6.13	U
93-72-1	2,4,5-TP (Silvex)	ND	198	5.26	U



Results Summary
Form 1
Chlorinated Herbicides by GC

Client : Anchor QEA, LLC Project Name : GASCO PDI Lab ID : L1957339-19 Client ID : PDI-135RAB-10-20-191120 Sample Location : SEATTLE, WA Sample Matrix : SOIL Analytical Method : 1,8151A Lab File ID : 17191203a-07 Sample Amount : 30.4 g Extraction Method : EPA 8151A Extract Volume : 10000 uL GPC Cleanup : N Sulfur Cleanup : N	Lab Number : L1957339 Project Number : 000029-02.59 Date Collected : 11/20/19 09:55 Date Received : 11/27/19 Date Analyzed : 12/04/19 01:20 Date Extracted : 12/01/19 Dilution Factor : 1 Analyst : DGM Instrument ID : PEST17 GC Column : STX-CLP2 %Solids : 83 Injection Volume : 1 uL
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CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
94-74-6	MCPA	ND	3950	1120	U
120-36-5	Dichloroprop	ND	39.5	11.3	U



Results Summary
Form 1
Chlorinated Herbicides by GC

Client : Anchor QEA, LLC	Lab Number : L1957339
Project Name : GASCO PDI	Project Number : 000029-02.59
Lab ID : L1957339-20	Date Collected : 11/20/19 11:00
Client ID : PDI-135RAB-20-26.2-191120	Date Received : 11/27/19
Sample Location : SEATTLE, WA	Date Analyzed : 12/07/19 18:07
Sample Matrix : SOIL	Date Extracted : 12/03/19
Analytical Method : 1,8151A	Dilution Factor : 1
Lab File ID : 17191206a-99	Analyst : JMC
Sample Amount : 16.12 g	Instrument ID : PEST17
Extraction Method : EPA 8151A	GC Column : STX-CLP2
Extract Volume : 10000 uL	%Solids : 82
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
93-65-2	MCPPP	ND	7590	2390	U
94-74-6	MCPA	ND	7590	2150	U
75-99-0	Dalapon	ND	75.9	24.8	U
1918-00-9	Dicamba	ND	75.9	12.8	U
120-36-5	Dichloroprop	ND	75.9	21.8	U
94-75-7	2,4-D	ND	380	23.9	U
94-82-6	2,4-DB	ND	380	19.5	U
93-76-5	2,4,5-T	ND	380	11.8	U
93-72-1	2,4,5-TP (Silvex)	ND	380	10.1	U



Results Summary
Form 1
Chlorinated Herbicides by GC

Client : Anchor QEA, LLC	Lab Number : L1957339
Project Name : GASCO PDI	Project Number : 000029-02.59
Lab ID : L1957339-21	Date Collected : 11/19/19 09:20
Client ID : PDI-136RAB-00-10-191119	Date Received : 11/27/19
Sample Location : SEATTLE, WA	Date Analyzed : 12/07/19 18:25
Sample Matrix : SOIL	Date Extracted : 12/01/19
Analytical Method : 1,8151A	Dilution Factor : 1
Lab File ID : 17191206a-100	Analyst : JMC
Sample Amount : 30.48 g	Instrument ID : PEST17
Extraction Method : EPA 8151A	GC Column : STX-CLP2
Extract Volume : 10000 uL	%Solids : 81
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
93-65-2	MCPPP	ND	4070	1280	U
94-74-6	MCPA	ND	4070	1150	U
75-99-0	Dalapon	ND	40.7	13.3	U
1918-00-9	Dicamba	ND	40.7	6.84	U
120-36-5	Dichloroprop	ND	40.7	11.7	U
94-75-7	2,4-D	ND	204	12.8	U
94-82-6	2,4-DB	ND	204	10.5	U
93-76-5	2,4,5-T	ND	204	6.31	U
93-72-1	2,4,5-TP (Silvex)	ND	204	5.41	U



Results Summary
Form 1
Chlorinated Herbicides by GC

Client : Anchor QEA, LLC	Lab Number : L1957339
Project Name : GASCO PDI	Project Number : 000029-02.59
Lab ID : L1957339-22	Date Collected : 11/19/19 10:00
Client ID : PDI-136RAB-10-13.4-191119	Date Received : 11/27/19
Sample Location : SEATTLE, WA	Date Analyzed : 12/07/19 18:43
Sample Matrix : SOIL	Date Extracted : 12/01/19
Analytical Method : 1,8151A	Dilution Factor : 1
Lab File ID : 17191206a-101	Analyst : JMC
Sample Amount : 30.82 g	Instrument ID : PEST17
Extraction Method : EPA 8151A	GC Column : STX-CLP2
Extract Volume : 10000 uL	%Solids : 84
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
93-65-2	MCPP	ND	3850	1210	U
94-74-6	MCPA	ND	3850	1090	U
75-99-0	Dalapon	ND	38.5	12.6	U
1918-00-9	Dicamba	ND	38.5	6.47	U
120-36-5	Dichloroprop	ND	38.5	11.0	U
94-75-7	2,4-D	ND	193	12.1	U
94-82-6	2,4-DB	ND	193	9.90	U
93-76-5	2,4,5-T	ND	193	5.97	U
93-72-1	2,4,5-TP (Silvex)	ND	193	5.12	U



Results Summary
Form 1
TCLP Herbicides by EPA 1311

Client : Anchor QEA, LLC Project Name : GASCO PDI Lab ID : L1957339-23 Client ID : PDI-136RAB-C-00-13.4-191119 Sample Location : SEATTLE, WA Sample Matrix : SOIL Analytical Method : 1,8151A Lab File ID : 22191210a-31 Sample Amount : 200 ml Extraction Method : EPA 8151A Extract Volume : 5000 uL GPC Cleanup : N Sulfur Cleanup : N	Lab Number : L1957339 Project Number : 000029-02.59 Date Collected : 11/19/19 10:30 Date Received : 11/27/19 Date Analyzed : 12/10/19 21:01 Date Extracted : 12/04/19 Dilution Factor : 1 Analyst : JMC Instrument ID : PEST22 GC Column : STX-CLP1 %Solids : 83 Injection Volume : 1 uL
--	---

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
94-75-7	2,4-D	ND	0.025	0.001	U
93-72-1	2,4,5-TP (Silvex)	ND	0.005	0.001	U



**Results Summary
Form 1
Chlorinated Herbicides by GC**

Client : Anchor QEA, LLC	Lab Number : L1957339
Project Name : GASCO PDI	Project Number : 000029-02.59
Lab ID : L1957339-24	Date Collected : 11/19/19 12:15
Client ID : PDI-137RAB-00-10-191119	Date Received : 11/27/19
Sample Location : SEATTLE, WA	Date Analyzed : 12/07/19 19:02
Sample Matrix : SOIL	Date Extracted : 12/01/19
Analytical Method : 1,8151A	Dilution Factor : 1
Lab File ID : 17191206a-102	Analyst : JMC
Sample Amount : 30.35 g	Instrument ID : PEST17
Extraction Method : EPA 8151A	GC Column : STX-CLP2
Extract Volume : 10000 uL	%Solids : 82
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
93-65-2	MCPPP	ND	4040	1270	U
94-74-6	MCPA	ND	4040	1140	U
75-99-0	Dalapon	ND	40.4	13.2	U
1918-00-9	Dicamba	ND	40.4	6.78	U
120-36-5	Dichloroprop	ND	40.4	11.6	U
94-75-7	2,4-D	ND	202	12.7	U
94-82-6	2,4-DB	ND	202	10.4	U
93-76-5	2,4,5-T	ND	202	6.26	U
93-72-1	2,4,5-TP (Silvex)	ND	202	5.37	U



**Results Summary
Form 1
Chlorinated Herbicides by GC**

Client : Anchor QEA, LLC
 Project Name : GASCO PDI
 Lab ID : L1957339-25
 Client ID : PDI-137RAB-10-17.7-191119
 Sample Location : SEATTLE, WA
 Sample Matrix : SOIL
 Analytical Method : 1,8151A
 Lab File ID : 17191206a-103
 Sample Amount : 30.73 g
 Extraction Method : EPA 8151A
 Extract Volume : 10000 uL
 GPC Cleanup : N
 Sulfur Cleanup : N

Lab Number : L1957339
 Project Number : 000029-02.59
 Date Collected : 11/19/19 12:50
 Date Received : 11/27/19
 Date Analyzed : 12/07/19 19:20
 Date Extracted : 12/01/19
 Dilution Factor : 1
 Analyst : JMC
 Instrument ID : PEST17
 GC Column : STX-CLP2
 %Solids : 79
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
93-65-2	MCPPP	ND	4100	1290	U
94-74-6	MCPA	ND	4100	1160	U
75-99-0	Dalapon	ND	41.0	13.4	U
1918-00-9	Dicamba	ND	41.0	6.89	U
120-36-5	Dichloroprop	ND	41.0	11.8	U
94-75-7	2,4-D	ND	205	12.9	U
94-82-6	2,4-DB	ND	205	10.5	U
93-76-5	2,4,5-T	ND	205	6.36	U
93-72-1	2,4,5-TP (Silvex)	ND	205	5.46	U



Results Summary
Form 1
Chlorinated Herbicides by GC

Client : Anchor QEA, LLC Project Name : GASCO PDI Lab ID : WG1314990-1 Client ID : WG1314990-1BLANK Sample Location : Sample Matrix : SOIL Analytical Method : 1,8151A Lab File ID : 17191202a-26 Sample Amount : 30.82 g Extraction Method : EPA 8151A Extract Volume : 10000 uL GPC Cleanup : N Sulfur Cleanup : N	Lab Number : L1957339 Project Number : 000029-02.59 Date Collected : NA Date Received : NA Date Analyzed : 12/02/19 20:31 Date Extracted : 11/28/19 Dilution Factor : 1 Analyst : DGM Instrument ID : PEST17 GC Column : STX-CLP1 %Solids : NA Injection Volume : 1 uL
---	---

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
93-65-2	MCPP	ND	3240	1020	U
75-99-0	Dalapon	ND	32.4	10.6	U
1918-00-9	Dicamba	ND	32.4	5.45	U
94-75-7	2,4-D	ND	162	10.2	U
94-82-6	2,4-DB	ND	162	8.34	U
93-76-5	2,4,5-T	ND	162	5.03	U
93-72-1	2,4,5-TP (Silvex)	ND	162	4.32	U



**Results Summary
Form 1
Chlorinated Herbicides by GC**

Client : Anchor QEA, LLC	Lab Number : L1957339
Project Name : GASCO PDI	Project Number : 000029-02.59
Lab ID : WG1314990-1	Date Collected : NA
Client ID : WG1314990-1BLANK	Date Received : NA
Sample Location :	Date Analyzed : 12/02/19 20:31
Sample Matrix : SOIL	Date Extracted : 11/28/19
Analytical Method : 1,8151A	Dilution Factor : 1
Lab File ID : 17191202a-26	Analyst : DGM
Sample Amount : 30.82 g	Instrument ID : PEST17
Extraction Method : EPA 8151A	GC Column : STX-CLP2
Extract Volume : 10000 uL	%Solids : NA
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
94-74-6	MCPA	ND	3240	918.	U
120-36-5	Dichloroprop	ND	32.4	9.31	U



Results Summary
Form 1
Chlorinated Herbicides by GC

Client : Anchor QEA, LLC	Lab Number : L1957339
Project Name : GASCO PDI	Project Number : 000029-02.59
Lab ID : WG1315021-1	Date Collected : NA
Client ID : WG1315021-1BLANK	Date Received : NA
Sample Location :	Date Analyzed : 12/03/19 13:04
Sample Matrix : WATER	Date Extracted : 11/28/19
Analytical Method : 1,8151A	Dilution Factor : 1
Lab File ID : 17191202a-80	Analyst : JMC
Sample Amount : 1000 ml	Instrument ID : PEST17
Extraction Method : EPA 8151A	GC Column : STX-CLP1
Extract Volume : 10000 uL	%Solids : N/A
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
93-65-2	MCPP	ND	500	58.5	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U



Results Summary
Form 1
Chlorinated Herbicides by GC

Client : Anchor QEA, LLC Project Name : GASCO PDI Lab ID : WG1315021-1 Client ID : WG1315021-1BLANK Sample Location : Sample Matrix : WATER Analytical Method : 1,8151A Lab File ID : 17191202a-80 Sample Amount : 1000 ml Extraction Method : EPA 8151A Extract Volume : 10000 uL GPC Cleanup : N Sulfur Cleanup : N	Lab Number : L1957339 Project Number : 000029-02.59 Date Collected : NA Date Received : NA Date Analyzed : 12/03/19 13:04 Date Extracted : 11/28/19 Dilution Factor : 1 Analyst : JMC Instrument ID : PEST17 GC Column : STX-CLP2 %Solids : N/A Injection Volume : 1 uL
--	--

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
94-74-6	MCPA	ND	500	63.2	U
120-36-5	Dichloroprop	ND	10.0	0.564	U



Results Summary
Form 1
Chlorinated Herbicides by GC

<p>Client : Anchor QEA, LLC Project Name : GASCO PDI Lab ID : WG1315317-1 Client ID : WG1315317-1BLANK Sample Location : Sample Matrix : SOIL Analytical Method : 1,8151A Lab File ID : 17191203a-03 Sample Amount : 30.1 g Extraction Method : EPA 8151A Extract Volume : 10000 uL GPC Cleanup : N Sulfur Cleanup : N</p>	<p>Lab Number : L1957339 Project Number : 000029-02.59 Date Collected : NA Date Received : NA Date Analyzed : 12/04/19 00:07 Date Extracted : 12/01/19 Dilution Factor : 1 Analyst : DGM Instrument ID : PEST17 GC Column : STX-CLP1 %Solids : NA Injection Volume : 1 uL</p>
--	--

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
93-65-2	MCPPP	ND	3320	1050	U
75-99-0	Dalapon	ND	33.2	10.9	U
1918-00-9	Dicamba	ND	33.2	5.58	U
94-75-7	2,4-D	ND	166	10.5	U
94-82-6	2,4-DB	ND	166	8.54	U
93-76-5	2,4,5-T	ND	166	5.15	U
93-72-1	2,4,5-TP (Silvex)	ND	166	4.42	U



Results Summary
Form 1
Chlorinated Herbicides by GC

Client : Anchor QEA, LLC Project Name : GASCO PDI Lab ID : WG1315317-1 Client ID : WG1315317-1BLANK Sample Location : Sample Matrix : SOIL Analytical Method : 1,8151A Lab File ID : 17191203a-03 Sample Amount : 30.1 g Extraction Method : EPA 8151A Extract Volume : 10000 uL GPC Cleanup : N Sulfur Cleanup : N	Lab Number : L1957339 Project Number : 000029-02.59 Date Collected : NA Date Received : NA Date Analyzed : 12/04/19 00:07 Date Extracted : 12/01/19 Dilution Factor : 1 Analyst : DGM Instrument ID : PEST17 GC Column : STX-CLP2 %Solids : NA Injection Volume : 1 uL
--	---

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
94-74-6	MCPA	ND	3320	940.	U
120-36-5	Dichloroprop	ND	33.2	9.53	U



Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Anchor QEA, LLC	Lab Number	: L1957339
Project Name	: GASCO PDI	Project Number	: 000029-02.59
Lab ID	: WG1316102-1	Date Collected	: NA
Client ID	: WG1316102-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 12/04/19 12:22
Sample Matrix	: SOIL	Date Extracted	: 12/03/19
Analytical Method	: 1,8151A	Dilution Factor	: 1
Lab File ID	: 17191203a-43	Analyst	: TQ
Sample Amount	: 30.52 g	Instrument ID	: PEST17
Extraction Method	: EPA 8151A	GC Column	: STX-CLP2
Extract Volume	: 10000 uL	%Solids	: NA
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
93-65-2	MCPPP	ND	3280	1030	U
94-74-6	MCPA	ND	3280	927.	U
75-99-0	Dalapon	ND	32.8	10.7	U
1918-00-9	Dicamba	ND	32.8	5.50	U
120-36-5	Dichloroprop	ND	32.8	9.40	U
94-75-7	2,4-D	ND	164	10.3	U
94-82-6	2,4-DB	ND	164	8.42	U
93-76-5	2,4,5-T	ND	164	5.08	U
93-72-1	2,4,5-TP (Silvex)	ND	164	4.36	U



Results Summary
Form 1
TCLP Herbicides by EPA 1311

Client : Anchor QEA, LLC	Lab Number : L1957339
Project Name : GASCO PDI	Project Number : 000029-02.59
Lab ID : WG1316266-1	Date Collected : NA
Client ID : WG1316266-1BLANK	Date Received : NA
Sample Location :	Date Analyzed : 12/10/19 19:48
Sample Matrix : SOIL	Date Extracted : 12/04/19
Analytical Method : 1,8151A	Dilution Factor : 1
Lab File ID : 22191210a-27	Analyst : JMC
Sample Amount : 200 ml	Instrument ID : PEST22
Extraction Method : EPA 8151A	GC Column : STX-CLP1
Extract Volume : 5000 uL	%Solids : NA
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
94-75-7	2,4-D	ND	0.025	0.001	U
93-72-1	2,4,5-TP (Silvex)	ND	0.005	0.001	U



Surrogate Recovery Summary

Form 2

Pesticides

Client: Anchor QEA, LLC
 Project Name: GASCO PDI

Lab Number: L1957339
 Project Number: 000029-02.59
 Matrix: Water/Soil

GC Column 1: STX-CLP1
 GC Column 2: STX-CLP2

CLIENT ID (LAB SAMPLE NO.)	1 %REC	2 %REC	1 %REC	2 %REC	OTHER (1)	OTHER (2)	TOT OUT
PDI-FB-1911191346 (L1957339-01)	97	80	--	--			0
PDI-RB-1911191254 (L1957339-02)	90	75	--	--			0
PDI-138RAB-C-00-19.1-191118 (L1957339-06)	72	64	--	--			0
PDI-144RAB-C-00-29-191114 (L1957339-10)	72	61	--	--			0
PDI-134RAB-C-00-25.5-191120 (L1957339-17)	61	47	--	--			0
PDI-136RAB-C-00-13.4-191119 (L1957339-23)	75	67	--	--			0
WG1315021-1BLANK	95	79	--	--			0
WG1315021-2LCS	97	91	--	--			0
WG1315021-3LCSD	88	82	--	--			0
WG1316266-1BLANK	70	65	--	--			0
WG1316266-2LCS	82	110	--	--			0
WG1316266-3LCSD	72	122	--	--			0

QC LIMITS
 (30-150) S1 = DCAA

* Values outside of QC limits

FORM II HERB-8151



Surrogate Recovery Summary

Form 2

Pesticides

Client: Anchor QEA, LLC
Project Name: GASCO PDI

Lab Number: L1957339
Project Number: 000029-02.59
Matrix: Soil

GC Column 1: STX-CLP1
GC Column 2: STX-CLP2

CLIENT ID (LAB SAMPLE NO.)	1 %REC	2 %REC	1 %REC	2 %REC	OTHER (1)	OTHER (2)	TOT OUT
PDI-1138RAB-00-10-191118 (L1957339-03)	64	57	--	--			0
PDI-138RAB-00-10-191118 (L1957339-04)	63	55	--	--			0
PDI-138RAB-10-19.1-191118 (L1957339-05)	55	55	--	--			0
PDI-139RAB-00-10-191115 (L1957339-07)	73	97	--	--			0
PDI-139RAB-10-20-191115 (L1957339-08)	74	53	--	--			0
PDI-139RAB-20-25.5-191118 (L1957339-09)	96	75	--	--			0
PDI-145RAB-00-10-191114 (L1957339-11)	72	52	--	--			0
PDI-145RAB-10-20-191114 (L1957339-12)	72	52	--	--			0
PDI-145RAB-20-24.7-191114 (L1957339-13)	75	55	--	--			0
PDI-134RAB-00-10-191120 (L1957339-14)	88	89	--	--			0
PDI-134RAB-10-20-191120 (L1957339-15)	87	109	--	--			0
PDI-134RAB-20-25.5-191120 (L1957339-16)	86	95	--	--			0
PDI-135RAB-00-10-191120 (L1957339-18)	97	76	--	--			0
PDI-135RAB-10-20-191120 (L1957339-19)	89	86	--	--			0

QC LIMITS
(30-150) S1 = DCAA

* Values outside of QC limits

FORM II HERB-8151



Surrogate Recovery Summary

Form 2

Pesticides

Client: Anchor QEA, LLC
Project Name: GASCO PDI

Lab Number: L1957339
Project Number: 000029-02.59
Matrix: Soil

GC Column 1: STX-CLP1
GC Column 2: STX-CLP2

CLIENT ID (LAB SAMPLE NO.)	1 %REC	2 %REC	1 %REC	2 %REC	OTHER (1)	OTHER (2)	TOT OUT
PDI-135RAB-20-26.2-191120 (L1957339-20)	96	88	--	--			0
PDI-136RAB-00-10-191119 (L1957339-21)	108	82	--	--			0
PDI-136RAB-10-13.4-191119 (L1957339-22)	107	81	--	--			0
PDI-137RAB-00-10-191119 (L1957339-24)	98	72	--	--			0
PDI-137RAB-10-17.7-191119 (L1957339-25)	103	80	--	--			0
WG1314990-1BLANK	64	58	--	--			0
WG1314990-2LCS	61	60	--	--			0
WG1314990-3LCSD	61	63	--	--			0
PDI-145RAB-00-10-191114MS	80	60	--	--			0
PDI-145RAB-00-10-191114MSD	86	63	--	--			0
WG1315317-1BLANK	82	72	--	--			0
WG1315317-2LCS	81	77	--	--			0
WG1315317-3LCSD	79	76	--	--			0
PDI-135RAB-10-20-191120MS	77	82	--	--			0
PDI-135RAB-10-20-191120MSD	91	94	--	--			0
WG1316102-1BLANK	76	67	--	--			0
WG1316102-2LCS	76	74	--	--			0
WG1316102-3LCSD	77	79	--	--			0

QC LIMITS
(30-150) S1 = DCAA

* Values outside of QC limits

FORM II HERB-8151



Laboratory Control Sample Summary

Form 3

Pesticides

Client : Anchor QEA, LLC **Lab Number** : L1957339
Project Name : GASCO PDI **Project Number** : 000029-02.59
Matrix : SOIL
LCS Sample ID : WG1314990-2 **Analysis Date** : 12/02/19 20:49 **File ID** : 17191202a-27
LCSD Sample ID : WG1314990-3 **Analysis Date** : 12/02/19 21:08 **File ID** : 17191202a-28

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R			
MCPP	16400	12300	75	16200	12200	76	1	30-150	30
MCPA	16400	9620	59	16200	9450	58	2	30-150	30
Dalapon	164	112	68	162	105	65	5	30-150	30
Dicamba	164	104	63	162	103	64	2	30-150	30
Dichloroprop	164	116	70	162	114	70	0	30-150	30
2,4-D	164	109	66	162	106	66	0	30-150	30
2,4-DB	164	98.4	60	162	97.1	60	0	30-150	30
2,4,5-T	164	101	61	162	98.1	61	0	30-150	30
2,4,5-TP (Silvex)	164	104	63	162	102	63	0	30-150	30



Laboratory Control Sample Summary

Form 3

Pesticides

Client : Anchor QEA, LLC **Lab Number** : L1957339
Project Name : GASCO PDI **Project Number** : 000029-02.59
Matrix : WATER
LCS Sample ID : WG1315021-2 **Analysis Date** : 12/03/19 13:22 **File ID** : 17191202a-81
LCSD Sample ID : WG1315021-3 **Analysis Date** : 12/03/19 13:41 **File ID** : 17191202a-82

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
MCPP	500	564	113	500	521	104	8	30-150	25
MCPA	500	539	108	500	530	106	2	30-150	25
Dalapon	5	5.10	102	5	4.76	95	7	30-150	25
Dicamba	5	4.85	97	5	4.49	90	7	30-150	25
Dichloroprop	5	6.34	127	5	5.93	119	1	30-150	25
2,4-D	5	5.27	105	5	4.89	98	7	30-150	25
2,4-DB	5	4.65	93	5	4.21	84	10	30-150	25
2,4,5-T	5	4.63	93	5	4.31	86	8	30-150	25
2,4,5-TP (Silvex)	5	5.07	101	5	4.69	94	7	30-150	25
Dinoseb	5	6.35	127	5	6.31	126	1	30-150	25



Laboratory Control Sample Summary

Form 3

Pesticides

Client : Anchor QEA, LLC **Lab Number** : L1957339
Project Name : GASCO PDI **Project Number** : 000029-02.59
Matrix : SOIL
LCS Sample ID : WG1315317-2 **Analysis Date** : 12/04/19 00:25 **File ID** : 17191203a-04
LCSD Sample ID : WG1315317-3 **Analysis Date** : 12/04/19 00:44 **File ID** : 17191203a-05

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R			
MCPP	16500	16600	101	16300	16000	98	3	30-150	30
MCPA	16500	13700	83	16300	12400	76	9	30-150	30
Dalapon	165	143	87	163	131	80	8	30-150	30
Dicamba	165	131	80	163	128	79	1	30-150	30
Dichloroprop	165	170	103	163	167	102	1	30-150	30
2,4-D	165	131	80	163	128	79	1	30-150	30
2,4-DB	165	126	77	163	120	74	4	30-150	30
2,4,5-T	165	128	78	163	125	77	1	30-150	30
2,4,5-TP (Silvex)	165	127	77	163	126	77	0	30-150	30



Laboratory Control Sample Summary

Form 3

Pesticides

Client : Anchor QEA, LLC **Lab Number** : L1957339
Project Name : GASCO PDI **Project Number** : 000029-02.59
Matrix : SOIL
LCS Sample ID : WG1316102-2 **Analysis Date** : 12/04/19 12:40 **File ID** : 17191203a-44
LCSD Sample ID : WG1316102-3 **Analysis Date** : 12/04/19 12:59 **File ID** : 17191203a-45

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R			
MCPP	16300	12500	77	16500	13100	79	3	30-150	30
MCPA	16300	12600	78	16500	13100	79	1	30-150	30
Dalapon	163	122	75	165	123	75	0	30-150	30
Dicamba	163	121	74	165	129	78	5	30-150	30
Dichloroprop	163	168	103	165	178	108	5	30-150	30
2,4-D	163	130	80	165	168	102	24	30-150	30
2,4-DB	163	121	74	165	146	89	18	30-150	30
2,4,5-T	163	136	83	165	145	88	6	30-150	30
2,4,5-TP (Silvex)	163	136	83	165	152	92	10	30-150	30



Laboratory Control Sample Summary Form 3 Pesticides

Client	: Anchor QEA, LLC	Lab Number	: L1957339
Project Name	: GASCO PDI	Project Number	: 000029-02.59
Matrix	: SOIL		
LCS Sample ID	: WG1316266-2	Analysis Date	: 12/10/19 20:06
LCSD Sample ID	: WG1316266-3	Analysis Date	: 12/10/19 20:25
		File ID	: 22191210a-28
		File ID	: 22191210a-29

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
2,4-D	0.0125	0.015	122	0.0125	0.014	115	6	30-150	25
2,4,5-TP (Silvex)	0.0125	0.011	87	0.0125	0.009	74	16	30-150	25



Matrix Spike Sample Summary

Form 3

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Client Sample ID : PDI-145RAB-00-10-191114
Lab Sample ID : L1957339-11
Matrix Spike : WG1314990-4
Matrix Spike Dup : WG1314990-5

Lab Number : L1957339
Project Number : 000029-02.59
Matrix : SOIL
Analysis Date : 12/07/19 15:03
MS Analysis Date : 12/07/19 15:21
MSD Analysis Date : 12/07/19 15:40

Parameter	Sample Conc. (ug/kg)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R			
MCPP	ND	18300	11100	61	18100	12500	69	12	30-150	30
MCPA	ND	18300	11600	64	18100	12300	68	6	30-150	30
Dalapon	ND	183	124	68	181	141	78	13	30-150	30
Dicamba	ND	183	118	65	181	125	69	6	30-150	30
Dichloroprop	ND	183	137	75	181	145	80	6	30-150	30
2,4-D	ND	183	118J	65	181	125J	69	6	30-150	30
2,4-DB	ND	183	111J	61	181	115J	64	4	30-150	30
2,4,5-T	ND	183	128J	70	181	136J	75	6	30-150	30
2,4,5-TP (Silvex)	ND	183	128J	70	181	134J	74	5	30-150	30



Matrix Spike Sample Summary

Form 3

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Client Sample ID : PDI-135RAB-10-20-191120
Lab Sample ID : L1957339-19
Matrix Spike : WG1315317-4
Matrix Spike Dup : WG1315317-5

Lab Number : L1957339
Project Number : 000029-02.59
Matrix : SOIL
Analysis Date : 12/04/19 01:20
MS Analysis Date : 12/04/19 01:39
MSD Analysis Date : 12/04/19 01:57

Parameter	Sample Conc. (ug/kg)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R			
MCPP	ND	19600	19100	98	19500	20800	107	9	30-150	30
Dalapon	ND	196	154	79	195	176	90	13	30-150	30
Dicamba	ND	196	153	78	195	180	92	16	30-150	30
2,4-D	ND	196	170J	87	195	184J	94	8	30-150	30
2,4-DB	ND	196	171J	87	195	189J	97	10	30-150	30
2,4,5-T	ND	196	144J	74	195	168J	86	15	30-150	30
2,4,5-TP (Silvex)	ND	196	145J	74	195	171J	88	16	30-150	30



Matrix Spike Sample Summary

Form 3

Pesticides

Client : Anchor QEA, LLC	Lab Number : L1957339
Project Name : GASCO PDI	Project Number : 000029-02.59
Client Sample ID : PDI-135RAB-10-20-191120	Matrix : SOIL
Lab Sample ID : L1957339-19	Analysis Date : 12/04/19 01:20
Matrix Spike : WG1315317-4	MS Analysis Date : 12/04/19 01:39
Matrix Spike Dup : WG1315317-5	MSD Analysis Date : 12/04/19 01:57

Parameter	Sample Conc. (ug/kg)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R			
MCPA	ND	19600	13500	69	19500	15800	81	16	30-150	30
Dichloroprop	ND	196	201	103	195	225	115	11	30-150	30



Method Blank Summary

Form 4

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Lab Sample ID : WG1314990-1
Matrix : SOIL
Analysis Date (1) : 12/02/19 20:31
Instrument ID (1) : PEST17

Lab Number : L1957339
Project Number : 000029-02.59
Lab File ID : 17191202a-26
Extraction Date : 11/28/19
Analysis Date (2) : 12/02/19 20:31
Instrument ID (2) : PEST17

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1314990-2LCS	WG1314990-2	12/02/19 20:49	12/02/19 20:49
WG1314990-3LCSD	WG1314990-3	12/02/19 21:08	12/02/19 21:08
PDI-1138RAB-00-10-191118	L1957339-03	12/02/19 21:26	12/02/19 21:26
PDI-138RAB-00-10-191118	L1957339-04	12/02/19 21:44	12/02/19 21:44
PDI-138RAB-10-19.1-191118	L1957339-05	12/02/19 22:03	12/02/19 22:03
PDI-139RAB-00-10-191115	L1957339-07	12/07/19 14:08	12/07/19 14:08
PDI-139RAB-10-20-191115	L1957339-08	12/07/19 14:26	12/07/19 14:26
PDI-145RAB-00-10-191114	L1957339-11	12/07/19 15:03	12/07/19 15:03
PDI-145RAB-00-10-191114MS	WG1314990-4	12/07/19 15:21	12/07/19 15:21
PDI-145RAB-00-10-191114MSD	WG1314990-5	12/07/19 15:40	12/07/19 15:40
PDI-145RAB-10-20-191114	L1957339-12	12/07/19 15:58	12/07/19 15:58
PDI-145RAB-20-24.7-191114	L1957339-13	12/07/19 16:35	12/07/19 16:35



**Method Blank Summary
Form 4
Pesticides**

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Lab Sample ID : WG1315021-1
Matrix : WATER
Analysis Date (1) : 12/03/19 13:04
Instrument ID (1) : PEST17

Lab Number : L1957339
Project Number : 000029-02.59
Lab File ID : 17191202a-80
Extraction Date : 11/28/19
Analysis Date (2) : 12/03/19 13:04
Instrument ID (2) : PEST17

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1315021-2LCS	WG1315021-2	12/03/19 13:22	12/03/19 13:22
WG1315021-3LCS	WG1315021-3	12/03/19 13:41	12/03/19 13:41
PDI-RB-1911191254	L1957339-02	12/04/19 02:15	12/04/19 02:15
PDI-FB-1911191346	L1957339-01	12/04/19 02:34	12/04/19 02:34



Method Blank Summary

Form 4

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Lab Sample ID : WG1315317-1
Matrix : SOIL
Analysis Date (1) : 12/04/19 00:07
Instrument ID (1) : PEST17

Lab Number : L1957339
Project Number : 000029-02.59
Lab File ID : 17191203a-03
Extraction Date : 12/01/19
Analysis Date (2) : 12/04/19 00:07
Instrument ID (2) : PEST17

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1315317-2LCS	WG1315317-2	12/04/19 00:25	12/04/19 00:25
WG1315317-3LCSD	WG1315317-3	12/04/19 00:44	12/04/19 00:44
PDI-135RAB-10-20-191120	L1957339-19	12/04/19 01:20	12/04/19 01:20
PDI-135RAB-10-20-191120MS	WG1315317-4	12/04/19 01:39	12/04/19 01:39
PDI-135RAB-10-20-191120MSD	WG1315317-5	12/04/19 01:57	12/04/19 01:57
PDI-139RAB-20-25.5-191118	L1957339-09	12/07/19 14:45	12/07/19 14:45
PDI-135RAB-00-10-191120	L1957339-18	12/07/19 17:48	12/07/19 17:48
PDI-136RAB-00-10-191119	L1957339-21	12/07/19 18:25	12/07/19 18:25
PDI-136RAB-10-13.4-191119	L1957339-22	12/07/19 18:43	12/07/19 18:43
PDI-137RAB-00-10-191119	L1957339-24	12/07/19 19:02	12/07/19 19:02
PDI-137RAB-10-17.7-191119	L1957339-25	12/07/19 19:20	12/07/19 19:20



Method Blank Summary

Form 4

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Lab Sample ID : WG1316102-1
Matrix : SOIL
Analysis Date (1) : 12/04/19 12:22
Instrument ID (1) : PEST17

Lab Number : L1957339
Project Number : 000029-02.59
Lab File ID : 17191203a-43
Extraction Date : 12/03/19
Analysis Date (2) : 12/04/19 12:22
Instrument ID (2) : PEST17

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1316102-2LCS	WG1316102-2	12/04/19 12:40	12/04/19 12:40
WG1316102-3LCSD	WG1316102-3	12/04/19 12:59	12/04/19 12:59
PDI-134RAB-00-10-191120	L1957339-14	12/07/19 16:53	12/07/19 16:53
PDI-134RAB-10-20-191120	L1957339-15	12/07/19 17:11	12/07/19 17:11
PDI-134RAB-20-25.5-191120	L1957339-16	12/07/19 17:30	12/07/19 17:30
PDI-135RAB-20-26.2-191120	L1957339-20	12/07/19 18:07	12/07/19 18:07



Method Blank Summary

Form 4

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Lab Sample ID : WG1316266-1
Matrix : SOIL
Analysis Date (1) : 12/10/19 19:48
Instrument ID (1) : PEST22

Lab Number : L1957339
Project Number : 000029-02.59
Lab File ID : 22191210a-27
Extraction Date : 12/04/19
Analysis Date (2) : 12/10/19 19:48
Instrument ID (2) : PEST22

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1316266-2LCS	WG1316266-2	12/10/19 20:06	12/10/19 20:06
WG1316266-3LCSD	WG1316266-3	12/10/19 20:25	12/10/19 20:25
PDI-134RAB-C-00-25.5-191120	L1957339-17	12/10/19 20:43	12/10/19 20:43
PDI-136RAB-C-00-13.4-191119	L1957339-23	12/10/19 21:01	12/10/19 21:01
PDI-138RAB-C-00-19.1-191118	L1957339-06	12/10/19 21:20	12/10/19 21:20
PDI-144RAB-C-00-29-191114	L1957339-10	12/10/19 21:38	12/10/19 21:38



Initial Calibration Summary

Form 6

Pesticides

Client : Anchor QEA, LLC	Lab Number : L1957339
Project Name : GASCO PDI	Project Number : 000029-02.59
Instrument ID : PEST17	Ical Ref : ICAL16100
Calibration dates : 09/03/19 11:08 09/03/19 12:42	

Calibration Files

1 =17190903i-02.d 2 =17190903i-03.d 3 =17190903i-04.d 4 =17190903i-05.d 5 =17190903i-06.d
 6 =17190903i-07.d

Compound	1	2	3	4	5	6	Avg	%RSD
1) i 4,4'-DBOB	-----ISTD-----							
2) t Dalapon	0.164	0.149	0.140	0.145	0.124	0.120	0.140	11.83
3) s DCAA (surrogate)	0.195	0.173	0.172	0.159	0.145	0.131	0.162	14.04
4) t Dicamba	0.541	0.495	0.481	0.536	0.470	0.439	0.494	7.97
5) t MCPP	0.001	0.001	0.001	0.001	0.001	0.001	0.001	16.81
6) t MCPA		0.001	0.001	0.001	0.001	0.001	*L	0.9954
7) t Dichloroprop		0.155	0.146	0.152	0.129	0.118	*L	0.9949
8) t 2,4-D	0.213	0.191	0.181	0.195	0.170	0.158	0.185	10.58
9) t 2,4,5-TP (Silvex)	0.743	0.682	0.681	0.756	0.665		0.706	5.81
10) t 2,4,5-T	0.760	0.728	0.740	0.830	0.724	0.679	0.743	6.72
11) t 2,4-DB	0.131	0.125	0.120	0.129	0.115	0.112	0.122	6.14
12) t Dinoseb	0.229	0.227	0.234	0.294	0.279	0.287	*L	0.9983



Initial Calibration Summary

Form 6

Pesticides

Client : Anchor QEA, LLC	Lab Number : L1957339
Project Name : GASCO PDI	Project Number : 000029-02.59
Instrument ID : PEST17	Ical Ref : ICAL16100
Calibration dates : 09/03/19 11:08 09/03/19 12:42	

Signal #2 Calibration Files

1 =17190903i-02.d 2 =17190903i-03.d 3 =17190903i-04.d 4 =17190903i-05.d 5 =17190903i-06.d
 6 =17190903i-07.d

Compound	1	2	3	4	5	6	Avg	%RSD
1) i 4,4'-DBOB	-----ISTD-----							
2) t Dalapon	0.206	0.166	0.148	0.150	0.133	0.141	0.157	16.77
3) s DCAA (surrogate)	0.236	0.208	0.206	0.193	0.181	0.178	0.200	10.78
4) t Dicamba	0.621	0.563	0.542	0.595	0.531	0.533	0.564	6.51
5) t MCPP	0.001	0.001	0.001	0.001	0.001	0.001	0.001	7.61
6) t MCPA		0.001	0.001	0.001	0.001	0.001	0.001	10.35
7) t Dichloroprop		0.167	0.159	0.170	0.151	0.149	*L	0.9988
8) t 2,4-D	0.248	0.219	0.211	0.232	0.209	0.212	0.222	6.81
9) t 2,4,5-TP (Sil	0.727	0.682	0.677	0.760	0.691		*L	0.9968
10) t 2,4,5-T	0.771	0.677	0.659	0.753	0.709	0.735	0.717	6.10
11) t 2,4-DB	0.137	0.126	0.121	0.135	0.123	0.123	0.128	5.43
12) t Dinoseb	0.260	0.237	0.235	0.270	0.249	0.257	*L	0.9987



Initial Calibration Summary

Form 6

Pesticides

Client : Anchor QEA, LLC	Lab Number : L1957339
Project Name : GASCO PDI	Project Number : 000029-02.59
Instrument ID : PEST22	Ical Ref : ICAL16347
Calibration dates : 12/08/19 18:48 12/08/19 20:20	

Calibration Files

1 =22191208i-02.D 2 =22191208i-03.D 3 =22191208i-04.D 4 =22191208i-05.D 5 =22191208i-06.D
 6 =22191208i-07.D

Compound	1	2	3	4	5	6	Avg	%RSD
1) i 4,4'-DBOB	-----ISTD-----							
2) t Dalapon	0.199	0.180	0.175	0.153	0.156	0.134	0.166	13.93
3) s DCAA (surrogate)	0.196	0.179	0.168	0.154	0.144	0.131	0.162	14.65
4) t Dicamba	0.542	0.515	0.502	0.480	0.500	0.447	0.498	6.44
5) t MCPP	0.001	0.001	0.001	0.001	0.001	0.001	0.001	5.29
6) t MCPA	0.001	0.001	0.001	0.001	0.001	0.001	0.001	17.73
7) t Dichloroprop	0.176	0.162	0.152	0.138	0.137		0.153	10.93
8) t 2,4-D	0.213	0.201	0.185	0.177	0.175		0.190	8.52
9) t 2,4,5-TP (Silvex)	0.722	0.707	0.672	0.650	0.663	0.594	0.668	6.75
10) t 2,4,5-T	0.748	0.741	0.698	0.687	0.702	0.633	0.701	5.94
11) t 2,4-DB	0.160	0.153	0.145	0.118	0.119	0.106	0.133	16.49
12) t Dinoseb	0.579	0.533	0.492	0.459	0.469	0.420	0.492	11.50



Initial Calibration Summary

Form 6

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Instrument ID : PEST22
Calibration dates : 12/08/19 18:48 12/08/19 20:20

Lab Number : L1957339
Project Number : 000029-02.59
Ical Ref : ICAL16347

Signal #2 Calibration Files

1 =22191208i-02.D 2 =22191208i-03.D 3 =22191208i-04.D 4 =22191208i-05.D 5 =22191208i-06.D
 6 =22191208i-07.D

Compound	1	2	3	4	5	6	Avg	%RSD
1) i 4,4'-DBOB	-----ISTD-----							
2) t Dalapon	0.218	0.198	0.194	0.171	0.176	0.166	0.187	10.57
3) s DCAA (surrogate)	0.213	0.198	0.189	0.179	0.174	0.173	0.188	8.39
4) t Dicamba	0.577	0.555	0.541	0.527	0.559	0.545	0.551	3.11
5) t MCPP	0.001	0.001	0.001	0.001	0.001	0.001	0.001	5.46
6) t MCPA	0.001	0.001	0.001	0.001	0.001	0.001	0.001	12.98
7) t Dichloroprop	0.178	0.168	0.158	0.146	0.150		0.160	8.13
8) t 2,4-D	0.287	0.272	0.224	0.210	0.209		0.240	15.25
9) t 2,4,5-TP (Sil	0.753	0.733	0.700	0.694	0.722	0.705	0.718	3.15
10) t 2,4,5-T	0.768	0.746	0.711	0.704	0.740	0.727	0.733	3.24
11) t 2,4-DB	0.131	0.122	0.112	0.109	0.113	0.113	0.117	7.14
12) t Dinoseb	0.570	0.517	0.486	0.473	0.481	0.465	0.499	7.85



Calibration Verification Summary

Form 7

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Instrument ID : PEST17
Lab File ID : 17191202a-25
Sample No : WG1315531-4
Channel : A

Lab Number : L1957339
Project Number : 000029-02.59
Calibration Date : 12/02/19 20:12
Init. Calib. Date(s) : 09/03/19 09/03/19
Init. Calib. Times : 11:08 12:42

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	0.25	0.25	-	0	15	86	-.02
Dalapon	0.182	0.227	-	-24.7*	15	108	-.02
DCAA (surrogate)	0.188	0.19	-	-1.1	15	83	-.03
Dicamba	0.188	0.197	-	-4.8	15	93	-.03
MCPP	18.8	20.757	-	-10.4	15	95	-.03
MCPA	18.6	19.634	-	-5.6	15	98	-.03
Dichloroprop	0.188	0.191	-	-1.6	15	98	-.02
2,4-D	0.188	0.193	-	-2.7	15	91	-.02
2,4,5-TP (Silvex)	0.19	0.19	-	0	15	90	-.02
2,4,5-T	0.19	0.184	-	3.2	15	84	-.02
2,4-DB	0.192	0.162	-	15.6*	15	74	-.02
Dinoseb	0.19	0.31	-	-63.2*	15	165	-.02

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Instrument ID : PEST17
Lab File ID : 17191202a-25
Sample No : WG1315531-4
Channel : B

Lab Number : L1957339
Project Number : 000029-02.59
Calibration Date : 12/02/19 20:12
Init. Calib. Date(s) : 09/03/19 09/03/19
Init. Calib. Times : 11:08 12:42

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	0.25	0.25	-	0	15	94	-.02
Dalapon	0.182	0.216	-	-18.7*	15	119	-.01
DCAA (surrogate)	0.188	0.176	-	6.4	15	86	-.02
Dicamba	0.188	0.187	-	0.5	15	97	-.03
MCPP	18.8	17.993	-	4.3	15	93	-.02
MCPA	18.6	19.762	-	-6.2	15	97	-.02
Dichloroprop	0.188	0.2	-	-6.4	15	107	-.02
2,4-D	0.188	0.192	-	-2.1	15	101	-.02
2,4,5-TP (Silvex)	0.19	0.213	-	-12.1	15	111	-.02
2,4,5-T	0.19	0.201	-	-5.8	15	108	-.02
2,4-DB	0.192	0.19	-	1	15	98	-.02
Dinoseb	0.19	0.332	-	-74.7*	15	178	-.02

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Instrument ID : PEST17
Lab File ID : 17191202a-36
Sample No : WG1315531-5
Channel : A

Lab Number : L1957339
Project Number : 000029-02.59
Calibration Date : 12/02/19 23:35
Init. Calib. Date(s) : 09/03/19 09/03/19
Init. Calib. Times : 11:08 12:42

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	0.25	0.25	-	0	15	87	0
Dalapon	0.182	0.234	-	-28.6*	15	112	0
DCAA (surrogate)	0.188	0.189	-	-0.5	15	83	0
Dicamba	0.188	0.195	-	-3.7	15	93	0
MCPPP	18.8	20.368	-	-8.3	15	94	0
MCPA	18.6	19.434	-	-4.5	15	98	0
Dichloroprop	0.188	0.19	-	-1.1	15	99	0
2,4-D	0.188	0.193	-	-2.7	15	91	0
2,4,5-TP (Silvex)	0.19	0.189	-	0.5	15	90	0
2,4,5-T	0.19	0.186	-	2.1	15	86	0
2,4-DB	0.192	0.155	-	19.3*	15	72	0
Dinoseb	0.19	0.338	-	-77.9*	15	182	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Instrument ID : PEST17
Lab File ID : 17191202a-36
Sample No : WG1315531-5
Channel : B

Lab Number : L1957339
Project Number : 000029-02.59
Calibration Date : 12/02/19 23:35
Init. Calib. Date(s) : 09/03/19 09/03/19
Init. Calib. Times : 11:08 12:42

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	0.25	0.25	-	0	15	95	0
Dalapon	0.182	0.213	-	-17*	15	119	0
DCAA (surrogate)	0.188	0.175	-	6.9	15	87	0
Dicamba	0.188	0.186	-	1.1	15	98	0
MCPP	18.8	17.957	-	4.5	15	94	0
MCPA	18.6	19.369	-	-4.1	15	97	0
Dichloroprop	0.188	0.196	-	-4.3	15	107	0
2,4-D	0.188	0.192	-	-2.1	15	102	0
2,4,5-TP (Silvex)	0.19	0.211	-	-11.1	15	112	0
2,4,5-T	0.19	0.201	-	-5.8	15	110	0
2,4-DB	0.192	0.188	-	2.1	15	98	0
Dinoseb	0.19	0.375	-	-97.4*	15	204	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Instrument ID : PEST17
Lab File ID : 17191202a-79
Sample No : WG1315531-9
Channel : A

Lab Number : L1957339
Project Number : 000029-02.59
Calibration Date : 12/03/19 12:45
Init. Calib. Date(s) : 09/03/19 09/03/19
Init. Calib. Times : 11:08 12:42

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	0.25	0.25	-	0	15	60	0
Dalapon	0.182	0.216	-	-18.7*	15	71	-.01
DCAA (surrogate)	0.188	0.2	-	-6.4	15	60	0
Dicamba	0.188	0.193	-	-2.7	15	63	0
MCPPP	18.8	20.739	-	-10.3	15	66	0
MCPA	18.6	23.289	-	-25.2*	15	76	0
Dichloroprop	0.188	0.192	-	-2.1	15	68	0
2,4-D	0.188	0.202	-	-7.4	15	65	0
2,4,5-TP (Silvex)	0.19	0.189	-	0.5	15	62	0
2,4,5-T	0.19	0.19	-	0	15	60	0
2,4-DB	0.192	0.161	-	16.1*	15	51	0
Dinoseb	0.19	0.34	-	-78.9*	15	126	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Instrument ID : PEST17
Lab File ID : 17191202a-79
Sample No : WG1315531-9
Channel : B

Lab Number : L1957339
Project Number : 000029-02.59
Calibration Date : 12/03/19 12:45
Init. Calib. Date(s) : 09/03/19 09/03/19
Init. Calib. Times : 11:08 12:42

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	0.25	0.25	-	0	15	66	0
Dalapon	0.182	0.204	-	-12.1	15	79	-.01
DCAA (surrogate)	0.188	0.183	-	2.7	15	63	0
Dicamba	0.188	0.186	-	1.1	15	68	0
MCPPP	18.8	16.965	-	9.8	15	62	0
MCPA	18.6	20.672	-	-11.1	15	72	0
Dichloroprop	0.188	0.206	-	-9.6	15	78	0
2,4-D	0.188	0.205	-	-9	15	76	0
2,4,5-TP (Silvex)	0.19	0.21	-	-10.5	15	78	0
2,4,5-T	0.19	0.202	-	-6.3	15	77	0
2,4-DB	0.192	0.191	-	0.5	15	70	0
Dinoseb	0.19	0.369	-	-94.2*	15	140	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Instrument ID : PEST17
Lab File ID : 17191202a-90
Sample No : WG1315531-10
Channel : A

Lab Number : L1957339
Project Number : 000029-02.59
Calibration Date : 12/03/19 16:08
Init. Calib. Date(s) : 09/03/19 09/03/19
Init. Calib. Times : 11:08 12:42

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	0.25	0.25	-	0	15	68	0
Dalapon	0.182	0.216	-	-18.7*	15	80	0
DCAA (surrogate)	0.188	0.192	-	-2.1	15	66	0
Dicamba	0.188	0.191	-	-1.6	15	71	0
MCPPP	18.8	20.214	-	-7.5	15	73	0
MCPA	18.6	21.315	-	-14.6	15	81	0
Dichloroprop	0.188	0.194	-	-3.2	15	78	0
2,4-D	0.188	0.205	-	-9	15	75	0
2,4,5-TP (Silvex)	0.19	0.186	-	2.1	15	69	0
2,4,5-T	0.19	0.182	-	4.2	15	65	0
2,4-DB	0.192	0.169	-	12	15	61	0
Dinoseb	0.19	0.338	-	-77.9*	15	142	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Instrument ID : PEST17
Lab File ID : 17191202a-90
Sample No : WG1315531-10
Channel : B

Lab Number : L1957339
Project Number : 000029-02.59
Calibration Date : 12/03/19 16:08
Init. Calib. Date(s) : 09/03/19 09/03/19
Init. Calib. Times : 11:08 12:42

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	0.25	0.25	-	0	15	75	0
Dalapon	0.182	0.202	-	-11	15	89	0
DCAA (surrogate)	0.188	0.178	-	5.3	15	69	0
Dicamba	0.188	0.183	-	2.7	15	77	0
MCPP	18.8	17.993	-	4.3	15	74	0
MCPA	18.6	20.449	-	-9.9	15	81	0
Dichloroprop	0.188	0.204	-	-8.5	15	87	0
2,4-D	0.188	0.203	-	-8	15	85	0
2,4,5-TP (Silvex)	0.19	0.21	-	-10.5	15	88	0
2,4,5-T	0.19	0.2	-	-5.3	15	86	0
2,4-DB	0.192	0.187	-	2.6	15	77	0
Dinoseb	0.19	0.355	-	-86.8*	15	153	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Instrument ID : PEST17
Lab File ID : 17191203a-01
Sample No : WG1316251-1
Channel : A

Lab Number : L1957339
Project Number : 000029-02.59
Calibration Date : 12/03/19 22:52
Init. Calib. Date(s) : 09/03/19 09/03/19
Init. Calib. Times : 11:08 12:42

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	0.25	0.25	-	0	15	70	0
Dalapon	0.182	0.214	-	-17.6*	15	82	0
DCAA (surrogate)	0.188	0.193	-	-2.7	15	68	0
Dicamba	0.188	0.189	-	-0.5	15	72	0
MCPP	18.8	20.635	-	-9.8	15	76	0
MCPA	18.6	21.45	-	-15.3*	15	84	0
Dichloroprop	0.188	0.191	-	-1.6	15	79	0
2,4-D	0.188	0.204	-	-8.5	15	77	0
2,4,5-TP (Silvex)	0.19	0.189	-	0.5	15	72	0
2,4,5-T	0.19	0.2	-	-5.3	15	74	0
2,4-DB	0.192	0.174	-	9.4	15	64	0
Dinoseb	0.19	0.355	-	-86.8*	15	153	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Instrument ID : PEST17
Lab File ID : 17191203a-01
Sample No : WG1316251-1
Channel : B

Lab Number : L1957339
Project Number : 000029-02.59
Calibration Date : 12/03/19 22:52
Init. Calib. Date(s) : 09/03/19 09/03/19
Init. Calib. Times : 11:08 12:42

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	0.25	0.25	-	0	15	77	0
Dalapon	0.182	0.203	-	-11.5	15	91	-.01
DCAA (surrogate)	0.188	0.179	-	4.8	15	71	0
Dicamba	0.188	0.183	-	2.7	15	78	0
MCPP	18.8	18.447	-	1.9	15	78	0
MCPA	18.6	20.666	-	-11.1	15	83	0
Dichloroprop	0.188	0.206	-	-9.6	15	90	0
2,4-D	0.188	0.207	-	-10.1	15	89	0
2,4,5-TP (Silvex)	0.19	0.215	-	-13.2	15	92	0
2,4,5-T	0.19	0.209	-	-10	15	92	0
2,4-DB	0.192	0.204	-	-6.2	15	86	0
Dinoseb	0.19	0.346	-	-82.1*	15	152	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Instrument ID : PEST17
Lab File ID : 17191203a-13
Sample No : WG1316251-2
Channel : A

Lab Number : L1957339
Project Number : 000029-02.59
Calibration Date : 12/04/19 03:11
Init. Calib. Date(s) : 09/03/19 09/03/19
Init. Calib. Times : 11:08 12:42

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	0.25	0.25	-	0	15	71	0
Dalapon	0.182	0.215	-	-18.1*	15	84	0
DCAA (surrogate)	0.188	0.194	-	-3.2	15	70	0
Dicamba	0.188	0.19	-	-1.1	15	74	0
MCPPP	18.8	20.637	-	-9.8	15	78	0
MCPA	18.6	21.238	-	-14.2	15	85	0
Dichloroprop	0.188	0.196	-	-4.3	15	82	0
2,4-D	0.188	0.206	-	-9.6	15	80	0
2,4,5-TP (Silvex)	0.19	0.188	-	1.1	15	73	0
2,4,5-T	0.19	0.194	-	-2.1	15	73	0
2,4-DB	0.192	0.169	-	12	15	64	0
Dinoseb	0.19	0.334	-	-75.8*	15	147	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Instrument ID : PEST17
Lab File ID : 17191203a-13
Sample No : WG1316251-2
Channel : B

Lab Number : L1957339
Project Number : 000029-02.59
Calibration Date : 12/04/19 03:11
Init. Calib. Date(s) : 09/03/19 09/03/19
Init. Calib. Times : 11:08 12:42

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	0.25	0.25	-	0	15	79	0
Dalapon	0.182	0.201	-	-10.4	15	93	0
DCAA (surrogate)	0.188	0.179	-	4.8	15	73	0
Dicamba	0.188	0.184	-	2.1	15	80	0
MCPPP	18.8	18.323	-	2.5	15	79	0
MCPA	18.6	20.471	-	-10.1	15	84	0
Dichloroprop	0.188	0.205	-	-9	15	92	0
2,4-D	0.188	0.207	-	-10.1	15	91	0
2,4,5-TP (Silvex)	0.19	0.213	-	-12.1	15	93	0
2,4,5-T	0.19	0.207	-	-8.9	15	94	0
2,4-DB	0.192	0.193	-	-0.5	15	83	0
Dinoseb	0.19	0.338	-	-77.9*	15	152	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Instrument ID : PEST17
Lab File ID : 17191203a-42
Sample No : WG1316251-5
Channel : A

Lab Number : L1957339
Project Number : 000029-02.59
Calibration Date : 12/04/19 12:03
Init. Calib. Date(s) : 09/03/19 09/03/19
Init. Calib. Times : 11:08 12:42

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	0.25	0.25	-	0	15	50	0
Dalapon	0.182	0.214	-	-17.6*	15	59	-.01
DCAA (surrogate)	0.188	0.2	-	-6.4	15	51	0
Dicamba	0.188	0.191	-	-1.6	15	53	0
MCPPP	18.8	22.042	-	-17.2*	15	59	0
MCPA	18.6	24.748	-	-33.1*	15	66	0
Dichloroprop	0.188	0.197	-	-4.8	15	58	0
2,4-D	0.188	0.213	-	-13.3	15	58	0
2,4,5-TP (Silvex)	0.19	0.191	-	-0.5	15	52	0
2,4,5-T	0.19	0.2	-	-5.3	15	53	0
2,4-DB	0.192	0.181	-	5.7	15	48	0
Dinoseb	0.19	0.356	-	-87.4*	15	111	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Instrument ID : PEST17
Lab File ID : 17191203a-42
Sample No : WG1316251-5
Channel : B

Lab Number : L1957339
Project Number : 000029-02.59
Calibration Date : 12/04/19 12:03
Init. Calib. Date(s) : 09/03/19 09/03/19
Init. Calib. Times : 11:08 12:42

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	0.25	0.25	-	0	15	56	0
Dalapon	0.182	0.2	-	-9.9	15	65	-.01
DCAA (surrogate)	0.188	0.182	-	3.2	15	53	0
Dicamba	0.188	0.185	-	1.6	15	57	0
MCPP	18.8	19.143	-	-1.8	15	59	0
MCPA	18.6	21.939	-	-18*	15	64	0
Dichloroprop	0.188	0.211	-	-12.2	15	67	0
2,4-D	0.188	0.218	-	-16*	15	68	0
2,4,5-TP (Silvex)	0.19	0.218	-	-14.7	15	68	0
2,4,5-T	0.19	0.212	-	-11.6	15	68	0
2,4-DB	0.192	0.209	-	-8.9	15	64	0
Dinoseb	0.19	0.357	-	-87.9*	15	114	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Instrument ID : PEST17
Lab File ID : 17191203a-51
Sample No : WG1316251-6
Channel : A

Lab Number : L1957339
Project Number : 000029-02.59
Calibration Date : 12/04/19 14:49
Init. Calib. Date(s) : 09/03/19 09/03/19
Init. Calib. Times : 11:08 12:42

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	0.25	0.25	-	0	15	55	0
Dalapon	0.182	0.202	-	-11	15	61	-.01
DCAA (surrogate)	0.188	0.185	-	1.6	15	51	0
Dicamba	0.188	0.178	-	5.3	15	54	0
MCPPP	18.8	20.094	-	-6.9	15	59	0
MCPA	18.6	21.719	-	-16.8*	15	67	0
Dichloroprop	0.188	0.184	-	2.1	15	61	0
2,4-D	0.188	0.2	-	-6.4	15	60	0
2,4,5-TP (Silvex)	0.19	0.177	-	6.8	15	53	0
2,4,5-T	0.19	0.188	-	1.1	15	55	0
2,4-DB	0.192	0.181	-	5.7	15	53	0
Dinoseb	0.19	0.32	-	-68.4*	15	109	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Instrument ID : PEST17
Lab File ID : 17191203a-51
Sample No : WG1316251-6
Channel : B

Lab Number : L1957339
Project Number : 000029-02.59
Calibration Date : 12/04/19 14:49
Init. Calib. Date(s) : 09/03/19 09/03/19
Init. Calib. Times : 11:08 12:42

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	0.25	0.25	-	0	15	61	0
Dalapon	0.182	0.185	-	-1.6	15	66	-.01
DCAA (surrogate)	0.188	0.17	-	9.6	15	54	0
Dicamba	0.188	0.171	-	9	15	58	0
MCPP	18.8	17.483	-	7	15	59	0
MCPA	18.6	20.155	-	-8.4	15	65	0
Dichloroprop	0.188	0.196	-	-4.3	15	69	0
2,4-D	0.188	0.199	-	-5.9	15	68	0
2,4,5-TP (Silvex)	0.19	0.2	-	-5.3	15	68	0
2,4,5-T	0.19	0.196	-	-3.2	15	69	0
2,4-DB	0.192	0.184	-	4.2	15	62	0
Dinoseb	0.19	0.319	-	-67.9*	15	111	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Instrument ID : PEST17
Lab File ID : 17191206a-82
Sample No : WG1317631-9
Channel : A

Lab Number : L1957339
Project Number : 000029-02.59
Calibration Date : 12/07/19 12:55
Init. Calib. Date(s) : 09/03/19 09/03/19
Init. Calib. Times : 11:08 12:42

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	0.25	0.25	-	0	15	60	0
Dalapon	0.182	0.276	-	-51.6*	15	91	-.01
DCAA (surrogate)	0.188	0.229	-	-21.8*	15	69	0
Dicamba	0.188	0.226	-	-20.2*	15	74	0
MCPPP	18.8	24.125	-	-28.3*	15	77	0
MCPA	18.6	25.609	-	-37.7*	15	81	0
Dichloroprop	0.188	0.231	-	-22.9*	15	78	0
2,4-D	0.188	0.24	-	-27.7*	15	78	0
2,4,5-TP (Silvex)	0.19	0.208	-	-9.5	15	68	0
2,4,5-T	0.19	0.204	-	-7.4	15	65	0
2,4-DB	0.192	0.172	-	10.4	15	55	0
Dinoseb	0.19	0.31	-	-63.2*	15	114	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Instrument ID : PEST17
Lab File ID : 17191206a-82
Sample No : WG1317631-9
Channel : B

Lab Number : L1957339
Project Number : 000029-02.59
Calibration Date : 12/07/19 12:55
Init. Calib. Date(s) : 09/03/19 09/03/19
Init. Calib. Times : 11:08 12:42

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	0.25	0.25	-	0	15	77	0
Dalapon	0.182	0.184	-	-1.1	15	82	-.01
DCAA (surrogate)	0.188	0.172	-	8.5	15	68	0
Dicamba	0.188	0.176	-	6.4	15	74	0
MCPP	18.8	17.595	-	6.4	15	74	0
MCPA	18.6	19.371	-	-4.1	15	78	0
Dichloroprop	0.188	0.192	-	-2.1	15	84	0
2,4-D	0.188	0.183	-	2.7	15	78	0
2,4,5-TP (Silvex)	0.19	0.193	-	-1.6	15	83	0
2,4,5-T	0.19	0.19	-	0	15	83	0
2,4-DB	0.192	0.164	-	14.6	15	69	0
Dinoseb	0.19	0.308	-	-62.1*	15	134	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Instrument ID : PEST17
Lab File ID : 17191206a-93
Sample No : WG1317631-10
Channel : A

Lab Number : L1957339
Project Number : 000029-02.59
Calibration Date : 12/07/19 16:16
Init. Calib. Date(s) : 09/03/19 09/03/19
Init. Calib. Times : 11:08 12:42

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	0.25	0.25	-	0	15	50	0
Dalapon	0.182	0.333	-	-83*	15	92	0
DCAA (surrogate)	0.188	0.245	-	-30.3*	15	62	0
Dicamba	0.188	0.238	-	-26.6*	15	65	0
MCPPP	18.8	25.279	-	-34.5*	15	67	0
MCPA	18.6	27.398	-	-47.3*	15	71	0
Dichloroprop	0.188	0.239	-	-27.1*	15	67	0
2,4-D	0.188	0.253	-	-34.6*	15	69	0
2,4,5-TP (Silvex)	0.19	0.211	-	-11.1	15	58	0
2,4,5-T	0.19	0.206	-	-8.4	15	54	0
2,4-DB	0.192	0.168	-	12.5	15	45	0
Dinoseb	0.19	0.338	-	-77.9*	15	105	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Instrument ID : PEST17
Lab File ID : 17191206a-93
Sample No : WG1317631-10
Channel : B

Lab Number : L1957339
Project Number : 000029-02.59
Calibration Date : 12/07/19 16:16
Init. Calib. Date(s) : 09/03/19 09/03/19
Init. Calib. Times : 11:08 12:42

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	0.25	0.25	-	0	15	64	0
Dalapon	0.182	0.212	-	-16.5*	15	80	0
DCAA (surrogate)	0.188	0.18	-	4.3	15	60	0
Dicamba	0.188	0.183	-	2.7	15	65	0
MCPPP	18.8	18.278	-	2.8	15	65	0
MCPA	18.6	20.293	-	-9.1	15	68	0
Dichloroprop	0.188	0.196	-	-4.3	15	72	0
2,4-D	0.188	0.191	-	-1.6	15	69	0
2,4,5-TP (Silvex)	0.19	0.198	-	-4.2	15	71	0
2,4,5-T	0.19	0.197	-	-3.7	15	73	0
2,4-DB	0.192	0.172	-	10.4	15	61	0
Dinoseb	0.19	0.321	-	-68.9*	15	118	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Instrument ID : PEST17
Lab File ID : 17191206a-104
Sample No : WG1317631-11
Channel : A

Lab Number : L1957339
Project Number : 000029-02.59
Calibration Date : 12/07/19 19:38
Init. Calib. Date(s) : 09/03/19 09/03/19
Init. Calib. Times : 11:08 12:42

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	0.25	0.25	-	0	15	57	0
Dalapon	0.182	0.278	-	-52.7*	15	87	-.02
DCAA (surrogate)	0.188	0.224	-	-19.1*	15	64	0
Dicamba	0.188	0.223	-	-18.6*	15	69	0
MCPPP	18.8	23.406	-	-24.5*	15	71	0
MCPA	18.6	25.977	-	-39.7*	15	78	0
Dichloroprop	0.188	0.22	-	-17*	15	72	0
2,4-D	0.188	0.233	-	-23.9*	15	72	0
2,4,5-TP (Silvex)	0.19	0.205	-	-7.9	15	64	0
2,4,5-T	0.19	0.197	-	-3.7	15	59	0
2,4-DB	0.192	0.166	-	13.5	15	50	0
Dinoseb	0.19	0.311	-	-63.7*	15	109	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Instrument ID : PEST17
Lab File ID : 17191206a-104
Sample No : WG1317631-11
Channel : B

Lab Number : L1957339
Project Number : 000029-02.59
Calibration Date : 12/07/19 19:38
Init. Calib. Date(s) : 09/03/19 09/03/19
Init. Calib. Times : 11:08 12:42

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	0.25	0.25	-	0	15	73	0
Dalapon	0.182	0.178	-	2.2	15	76	-.01
DCAA (surrogate)	0.188	0.168	-	10.6	15	64	0
Dicamba	0.188	0.173	-	8	15	70	0
MCPP	18.8	17.09	-	9.1	15	68	0
MCPA	18.6	18.778	-	-1	15	72	0
Dichloroprop	0.188	0.185	-	1.6	15	78	0
2,4-D	0.188	0.178	-	5.3	15	73	0
2,4,5-TP (Silvex)	0.19	0.194	-	-2.1	15	79	0
2,4,5-T	0.19	0.19	-	0	15	79	0
2,4-DB	0.192	0.165	-	14.1	15	66	0
Dinoseb	0.19	0.316	-	-66.3*	15	131	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Instrument ID : PEST22
Lab File ID : 22191210a-26
Sample No : WG1318866-4
Channel : A

Lab Number : L1957339
Project Number : 000029-02.59
Calibration Date : 12/10/19 19:30
Init. Calib. Date(s) : 12/08/19 12/08/19
Init. Calib. Times : 18:48 20:20

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	0.25	0.25	-	0	15	112	0
Dalapon	0.182	0.163	-	10.4	15	95	0
DCAA (surrogate)	0.188	0.188	-	0	15	108	0
Dicamba	0.188	0.189	-	-0.5	15	112	0
MCPPP	18.8	18.513	-	1.5	15	106	0
MCPA	18.6	18.764	-	-0.9	15	109	0
Dichloroprop	0.188	0.202	-	-7.4	15	121	0
2,4-D	0.188	0.195	-	-3.7	15	119	0
2,4,5-TP (Silvex)	0.19	0.21	-	-10.5	15	123	0
2,4,5-T	0.19	0.203	-	-6.8	15	120	0
2,4-DB	0.192	0.171	-	10.9	15	92	0
Dinoseb	0.19	0.2	-	-5.3	15	118	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Instrument ID : PEST22
Lab File ID : 22191210a-26
Sample No : WG1318866-4
Channel : B

Lab Number : L1957339
Project Number : 000029-02.59
Calibration Date : 12/10/19 19:30
Init. Calib. Date(s) : 12/08/19 12/08/19
Init. Calib. Times : 18:48 20:20

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	0.25	0.25	-	0	15	115	0
Dalapon	0.182	0.152	-	16.5*	15	93	0
DCAA (surrogate)	0.188	0.172	-	8.5	15	105	0
Dicamba	0.188	0.178	-	5.3	15	111	0
MCPP	18.8	16.537	-	12	15	99	0
MCPA	18.6	17.075	-	8.2	15	103	0
Dichloroprop	0.188	0.199	-	-5.9	15	123	0
2,4-D	0.188	0.175	-	6.9	15	115	0
2,4,5-TP (Silvex)	0.19	0.2	-	-5.3	15	124	0
2,4,5-T	0.19	0.193	-	-1.6	15	120	0
2,4-DB	0.192	0.194	-	-1	15	121	0
Dinoseb	0.19	0.188	-	1.1	15	116	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Instrument ID : PEST22
Lab File ID : 22191210a-34
Sample No : WG1318866-5
Channel : A

Lab Number : L1957339
Project Number : 000029-02.59
Calibration Date : 12/10/19 21:56
Init. Calib. Date(s) : 12/08/19 12/08/19
Init. Calib. Times : 18:48 20:20

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	0.25	0.25	-	0	15	115	0
Dalapon	0.182	0.162	-	11	15	98	0
DCAA (surrogate)	0.188	0.189	-	-0.5	15	112	0
Dicamba	0.188	0.19	-	-1.1	15	115	0
MCPPP	18.8	18.778	-	0.1	15	111	0
MCPA	18.6	18.817	-	-1.2	15	112	0
Dichloroprop	0.188	0.203	-	-8	15	125	0
2,4-D	0.188	0.195	-	-3.7	15	123	0
2,4,5-TP (Silvex)	0.19	0.21	-	-10.5	15	126	0
2,4,5-T	0.19	0.204	-	-7.4	15	125	0
2,4-DB	0.192	0.171	-	10.9	15	94	0
Dinoseb	0.19	0.2	-	-5.3	15	121	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Pesticides

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Instrument ID : PEST22
Lab File ID : 22191210a-34
Sample No : WG1318866-5
Channel : B

Lab Number : L1957339
Project Number : 000029-02.59
Calibration Date : 12/10/19 21:56
Init. Calib. Date(s) : 12/08/19 12/08/19
Init. Calib. Times : 18:48 20:20

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	0.25	0.25	-	0	15	119	0
Dalapon	0.182	0.154	-	15.4*	15	97	0
DCAA (surrogate)	0.188	0.173	-	8	15	109	0
Dicamba	0.188	0.182	-	3.2	15	117	0
MCPP	18.8	17.005	-	9.5	15	106	0
MCPA	18.6	17.29	-	7	15	108	0
Dichloroprop	0.188	0.199	-	-5.9	15	128	0
2,4-D	0.188	0.175	-	6.9	15	119	0
2,4,5-TP (Silvex)	0.19	0.2	-	-5.3	15	128	0
2,4,5-T	0.19	0.195	-	-2.6	15	126	0
2,4-DB	0.192	0.194	-	-1	15	125	0
Dinoseb	0.19	0.194	-	-2.1	15	124	0

* Value outside of QC limits.



Analytical Sequence Form 8b Pesticides

Client : Anchor QEA, LLC
 Project Name : GASCO PDI
 Instrument ID : PEST22

Lab Number : L1957339
 Project Number : 000029-02.59
 Initial Calib. Date(s) : 12/08/19 12/08/19

Client ID	Lab ID	Date/Time Analyzed
Herbicides L1	R1263425-2	12/08/19 18:48
Herbicides L2	R1263425-1	12/08/19 19:07
Herbicides L3	R1263425-3	12/08/19 19:25
Herbicides L4	R1263425-4	12/08/19 19:43
Herbicides L5	R1263425-5	12/08/19 20:02
Herbicides L6	R1263425-6	12/08/19 20:20
R1263425-7 ICV	R1263425-7	12/09/19 12:28
WG1318866-4 CCAL	WG1318866-4	12/10/19 19:30
WG1316266-1 BLANK	WG1316266-1	12/10/19 19:48
WG1316266-2 LCS	WG1316266-2	12/10/19 20:06
WG1316266-3 LCSD	WG1316266-3	12/10/19 20:25
PDI-134RAB-C-00-25.5-191120	L1957339-17	12/10/19 20:43
PDI-136RAB-C-00-13.4-191119	L1957339-23	12/10/19 21:01
PDI-138RAB-C-00-19.1-191118	L1957339-06	12/10/19 21:20
PDI-144RAB-C-00-29-191114	L1957339-10	12/10/19 21:38
WG1318866-5 CCAL	WG1318866-5	12/10/19 21:56



Analytical Sequence Form 8b Pesticides

Client : Anchor QEA, LLC
 Project Name : GASCO PDI
 Instrument ID : PEST17

Lab Number : L1957339
 Project Number : 000029-02.59
 Initial Calib. Date(s) : 09/03/19 09/03/19

Client ID	Lab ID	Date/Time Analyzed
Herbicides Level 1	R1227491-1	09/03/19 11:08
Herbicides Level 2	R1227491-2	09/03/19 11:26
Herbicides Level 3	R1227491-3	09/03/19 11:45
Herbicides Level 4	R1227491-4	09/03/19 12:04
Herbicides Level 5	R1227491-5	09/03/19 12:23
Herbicides Level 6	R1227491-6	09/03/19 12:42
R1227491-7 ICV	R1227491-7	09/03/19 13:01
WG1315531-4 CCAL	WG1315531-4	12/02/19 20:12
WG1314990-1 BLANK	WG1314990-1	12/02/19 20:31
WG1314990-2 LCS	WG1314990-2	12/02/19 20:49
WG1314990-3 LCSD	WG1314990-3	12/02/19 21:08
PDI-1138RAB-00-10-191118	L1957339-03	12/02/19 21:26
PDI-138RAB-00-10-191118	L1957339-04	12/02/19 21:44
PDI-138RAB-10-19.1-191118	L1957339-05	12/02/19 22:03
WG1315531-5 CCAL	WG1315531-5	12/02/19 23:35
WG1315531-9 CCAL	WG1315531-9	12/03/19 12:45
WG1315021-1 BLANK	WG1315021-1	12/03/19 13:04
WG1315021-2 LCS	WG1315021-2	12/03/19 13:22
WG1315021-3 LCSD	WG1315021-3	12/03/19 13:41
WG1315531-10 CCAL	WG1315531-10	12/03/19 16:08
WG1316251-1 CCAL	WG1316251-1	12/03/19 22:52
WG1315317-1 BLANK	WG1315317-1	12/04/19 00:07
WG1315317-2 LCS	WG1315317-2	12/04/19 00:25
WG1315317-3 LCSD	WG1315317-3	12/04/19 00:44
PDI-135RAB-10-20-191120	L1957339-19	12/04/19 01:20
PDI-135RAB-10-20-191120 MS	WG1315317-4	12/04/19 01:39
PDI-135RAB-10-20-191120 MSD	WG1315317-5	12/04/19 01:57
PDI-RB-1911191254	L1957339-02	12/04/19 02:15
PDI-FB-1911191346	L1957339-01	12/04/19 02:34
WG1316251-2 CCAL	WG1316251-2	12/04/19 03:11
WG1316251-5 CCAL	WG1316251-5	12/04/19 12:03
WG1316102-1 BLANK	WG1316102-1	12/04/19 12:22
WG1316102-2 LCS	WG1316102-2	12/04/19 12:40
WG1316102-3 LCSD	WG1316102-3	12/04/19 12:59
WG1316251-6 CCAL	WG1316251-6	12/04/19 14:49
WG1317631-9 CCAL	WG1317631-9	12/07/19 12:55
PDI-139RAB-00-10-191115	L1957339-07	12/07/19 14:08
PDI-139RAB-10-20-191115	L1957339-08	12/07/19 14:26
PDI-139RAB-20-25.5-191118	L1957339-09	12/07/19 14:45
PDI-145RAB-00-10-191114	L1957339-11	12/07/19 15:03
PDI-145RAB-00-10-191114 MS	WG1314990-4	12/07/19 15:21
PDI-145RAB-00-10-191114 MSD	WG1314990-5	12/07/19 15:40



**Analytical Sequence
Form 8b
Pesticides**

Client : Anchor QEA, LLC
Project Name : GASCO PDI
Instrument ID : PEST17

Lab Number : L1957339
Project Number : 000029-02.59
Initial Calib. Date(s) : 09/03/19 09/03/19

Client ID	Lab ID	Date/Time Analyzed
PDI-145RAB-10-20-191114	L1957339-12	12/07/19 15:58
WG1317631-10 CCAL	WG1317631-10	12/07/19 16:16
PDI-145RAB-20-24.7-191114	L1957339-13	12/07/19 16:35
PDI-134RAB-00-10-191120	L1957339-14	12/07/19 16:53
PDI-134RAB-10-20-191120	L1957339-15	12/07/19 17:11
PDI-134RAB-20-25.5-191120	L1957339-16	12/07/19 17:30
PDI-135RAB-00-10-191120	L1957339-18	12/07/19 17:48
PDI-135RAB-20-26.2-191120	L1957339-20	12/07/19 18:07
PDI-136RAB-00-10-191119	L1957339-21	12/07/19 18:25
PDI-136RAB-10-13.4-191119	L1957339-22	12/07/19 18:43
PDI-137RAB-00-10-191119	L1957339-24	12/07/19 19:02
PDI-137RAB-10-17.7-191119	L1957339-25	12/07/19 19:20
WG1317631-11 CCAL	WG1317631-11	12/07/19 19:38



**Identification Summary
Form 10
Pesticides**

Client : Anchor QEA, LLC
Project Name : GASCO PDI

Lab Number : L1957339
Project Number : 000029-02.59

No Detections Found

