



ALS Environmental
ALS Group USA, Corp
1317 South 13th Avenue
Kelso, WA 98626
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www.alsglobal.com

April 06, 2021

Analytical Report for Service Request No: K2102809

Delaney Peterson
Anchor QEA, LLC
720 Olive Way, Suite 1900
Seattle, WA 98101

RE: GascoSiltronic: US Moorings

Dear Delaney,

Enclosed are the results of the sample(s) submitted to our laboratory March 19, 2021
For your reference, these analyses have been assigned our service request number **K2102809**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at Mark.Harris@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mark Harris
Project Manager



ALS Environmental
ALS Group USA, Corp
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 Total Solids

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Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
 - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjllabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.



Case Narrative

ALS Environmental—Kelso Laboratory
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Chain of Custody

ALS Environmental—Kelso Laboratory
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ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

K2102809

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

COC ID: ALS-20210315-093333
Sample Custodian: SN
Lab: ALS Environmental, Kelso, V

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	USMPDI-058RAB-00-10-210317	N	SO	03/17/2021	13:35	1	<input type="checkbox"/>	Herbicides Total Solids (ALS)	SW8151A SM2540G	30 30	4°C 4°C
002	USMPDI-058RAB-10-20-210317	N	SO	03/17/2021	14:25	1	<input type="checkbox"/>	Herbicides Total Solids (ALS)	SW8151A SM2540G	30 30	4°C 4°C
003	USMPDI-058RAB-20-26.2-210317	N	SO	03/17/2021	15:10	1	<input type="checkbox"/>	Herbicides Total Solids (ALS)	SW8151A SM2540G	30 30	4°C 4°C
004	USMPDI-059RAB-00-10-210318	N	SO	03/18/2021	8:40	1	<input type="checkbox"/>	Herbicides Total Solids (ALS)	SW8151A SM2540G	30 30	4°C 4°C
005	USMPDI-059RAB-10-20-210318	N	SO	03/18/2021	9:35	1	<input type="checkbox"/>	Herbicides Total Solids (ALS)	SW8151A SM2540G	30 30	4°C 4°C
006	USMPDI-059RAB-20-25.5-210318	N	SO	03/18/2021	10:30	1	<input type="checkbox"/>	Herbicides Total Solids (ALS)	SW8151A SM2540G	30 30	4°C 4°C
007	USMPDI-060RAB-00-10-210317	N	SO	03/17/2021	9:50	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C

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
3/18/21 @ 1:45	3/19/21 11:30				

* 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

K2102809

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

COC ID: ALS-20210315-093333
Sample Custodian: SN
Lab: ALS Environmental, Kelso, V

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
007	USMPDI-060RAB-00-10-210317	N	SO	03/17/2021	9:50	1	<input type="checkbox"/>	Total Solids (ALS)	SM2540G	30	4°C
008	USMPDI-060RAB-10-20-210317	N	SO	03/17/2021	11:00	2	<input checked="" type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
009	USMPDI-060RAB-20-28.1-210317	N	SO	03/17/2021	11:40	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
010	USMPDI-1060RAB-00-10-210317	FD	SO	03/17/2021		1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
011	USMPDI-064RAB-00-10-210310	N	SO	03/10/2021	13:35	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
012	USMPDI-064RAB-10-20-210311	N	SO	03/11/2021	8:45	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
013	USMPDI-064RAB-20-23.4-210311	N	SO	03/11/2021	10:00	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C

Comment:					
Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature:	Signature:	Signature:	Signature:
Print Name: <i>Steph Norwood</i>	Print Name: <i>[Signature]</i>	Print Name:	Print Name:	Print Name:	Print Name:
Company: <i>Anchor OEA</i>	Company: <i>ALS</i>	Company:	Company:	Company:	Company:
Date/Time: <i>3/18/21 @ 1435</i>	Date/Time: <i>3/19/21 1130</i>	Date/Time:	Date/Time:	Date/Time:	Date/Time:

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

K2102809

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

COC ID: ALS-20210315-093333
Sample Custodian: SN
Lab: ALS Environmental, Kelso, V

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
014	USMPDI-1064RAB-10-20-210311	FD	SO	03/11/2021		1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
015	USMPDI-066RAB-00-10-210315	N	SO	03/15/2021	10:45	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
016	USMPDI-066RAB-10-20-210315	N	SO	03/15/2021	11:40	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
017	USMPDI-066RAB-20-22.5-210315	N	SO	03/15/2021	13:05	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
018	USMPDI-067RAB-00-10-210316	N	SO	03/16/2021	10:05	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
019	USMPDI-067RAB-10-20-210316	N	SO	03/16/2021	11:15	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
020	USMPDI-067RAB-20-21.9-210316	N	SO	03/16/2021	11:45	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C

Comment:					
Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature	Signature	Signature	Signature	Signature	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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

V2102809

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

COC ID: ALS-20210315-093333
Sample Custodian: SN
Lab: ALS Environmental, Kelso, V

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
020	USMPDI-067RAB-20-21.9-210316	N	SO	03/16/2021	11:45	1	<input type="checkbox"/>				
								Total Solids (ALS)	SM2540G	30	4°C
021	USMPDI-068RAB-00-10-210311	N	SO	03/11/2021	13:55	4	<input type="checkbox"/>				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
022	USMPDI-068RAB-10-20-210311	N	SO	03/11/2021	14:40	2	<input checked="" type="checkbox"/>				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
023	USMPDI-068RAB-20-32.1-210312	N	SO	03/12/2021	8:20	1	<input type="checkbox"/>				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
024	USMPDI-069RAB-00-10-210312	N	SO	03/12/2021	10:25	1	<input type="checkbox"/>				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
025	USMPDI-069RAB-10-20-210312	N	SO	03/12/2021	11:25	1	<input type="checkbox"/>				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
026	USMPDI-069RAB-20-36.3-210312	N	SO	03/12/2021	13:20	1	<input type="checkbox"/>				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C

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

Cooler Receipt and Preservation Form

PM MH
02809

Client Anchor QEA Service Request K21
Received: 3/19/21 Opened: 3/19/21 By: [Signature] Unloaded: 3/19/21 By: [Signature]

- Samples were received via? **USPS** Fed Ex **UPS** **DHL** **PDX** **Courier** **Hand Delivered**
 - Samples were received in: (circle) Cooler **Box** **Envelope** **Other** **NA**
 - Were custody seals on coolers? **NA** Y **N** If yes, how many and where? Front
If present, were custody seals intact? Y **N** If present, were they signed and dated? Y **N**
 - Was a Temperature Blank present in cooler? **NA** Y **N** If yes, note the temperature in the appropriate column below:
If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
 - Were samples received within the method specified temperature ranges? **NA** Y **N**
If no, were they received on ice and same day as collected? If not, notate the cooler # below and notify the PM. NA **Y** **N**
- If applicable, tissue samples were received: **Frozen** **Partially Thawed** **Thawed**

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp Indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
<u>3.0</u>		<u>TR01</u>	<u>ALS-20210315-093333</u>			<u>773204385849</u>	

- Packing material: **Inserts** **Baggies** **Bubble Wrap** **Gel Packs** Wet Ice **Dry Ice** **Sleeves**
- Were custody papers properly filled out (ink, signed, etc.)? **NA** Y **N**
- Were samples received in good condition (unbroken) **NA** Y **N**
- Were all sample labels complete (ie, analysis, preservation, etc.)? **NA** **Y** N
- Did all sample labels and tags agree with custody papers? **NA** **Y** N
- Were appropriate bottles/containers and volumes received for the tests indicated? **NA** Y **N**
- Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA **Y** **N**
- Were VOA vials received without headspace? Indicate in the table below. NA **Y** **N**
- Was C12/Res negative? NA **Y** **N**

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: Did not receive USM PDI-1060KAB-00-10-210317(FB) km
or km that's on the COC B2 (FD)



Total Solids

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil
Analysis Method: SM 2540 G
Prep Method: None

Service Request: K2102809
Date Collected: 03/10/21 - 03/18/21
Date Received: 03/19/21
Units: Percent
Basis: As Received

Solids, Total

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Q
USMPDI-058RAB-00-10-210317	K2102809-001	89.9	-	-	1	03/23/21 14:15	
USMPDI-058RAB-10-20-210317	K2102809-002	84.2	-	-	1	03/23/21 14:15	
USMPDI-058RAB-20-26.2-210317	K2102809-003	69.6	-	-	1	03/23/21 14:15	
USMPDI-059RAB-00-10-210318	K2102809-004	88.8	-	-	1	03/23/21 14:15	
USMPDI-059RAB-10-20-210318	K2102809-005	81.0	-	-	1	03/23/21 14:15	
USMPDI-059RAB-20-25.5-210318	K2102809-006	81.3	-	-	1	03/23/21 14:15	
USMPDI-060RAB-00-10-210317	K2102809-007	88.0	-	-	1	03/23/21 14:15	
USMPDI-060RAB-10-20-210317	K2102809-008	82.6	-	-	1	03/23/21 14:15	
USMPDI-060RAB-20-28.1-210317	K2102809-009	79.9	-	-	1	03/23/21 14:15	
USMPDI-1060RAB-00-10-210317	K2102809-010	88.9	-	-	1	03/23/21 14:15	
USMPDI-064RAB-00-10-210310	K2102809-011	84.9	-	-	1	03/23/21 14:15	
USMPDI-064RAB-10-20-210311	K2102809-012	72.0	-	-	1	03/23/21 14:15	
USMPDI-064RAB-20-23.4-210311	K2102809-013	72.4	-	-	1	03/23/21 14:15	
USMPDI-1064-RAB-10-20-210311	K2102809-014	71.4	-	-	1	03/23/21 14:15	
USMPDI-066RAB-00-10-210315	K2102809-015	89.8	-	-	1	03/23/21 14:15	
USMPDI-066RAB-10-20-210315	K2102809-016	88.3	-	-	1	03/23/21 14:15	
USMPDI-066RAB-20-22.5-210315	K2102809-017	71.4	-	-	1	03/23/21 14:15	
USMPDI-067RAB-00-10-210316	K2102809-018	88.9	-	-	1	03/23/21 14:15	
USMPDI-067RAB-10-20-210316	K2102809-019	74.7	-	-	1	03/23/21 14:15	
USMPDI-067RAB-20-21.9-210316	K2102809-020	63.4	-	-	1	03/23/21 14:15	
Method Blank	K2102809-MB	ND U	-	-	1	03/23/21 14:15	

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil
Analysis Method: SM 2540 G
Prep Method: None

Service Request: K2102809
Date Collected: 03/17/21
Date Received: 03/19/21

Units: Percent
Basis: As Received

Replicate Sample Summary

Solids, Total

Sample Name:	Lab Code:	MRL	MDL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
USMPDI-058RAB-00-10-210317	K2102809-001DUP	-	-	89.9	90.1	90.0	<1	20	03/23/21
USMPDI-060RAB-10-20-210317	K2102809-008DUP	-	-	82.6	83.6	83.1	1	20	03/23/21

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



Chlorinated Herbicides by GC

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

Service Request: K2102809
Date Collected: 03/17/21 13:35
Date Received: 03/19/21 11:30

Sample Name: USMPDI-058RAB-00-10-210317
Lab Code: K2102809-001

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP (Silvex)	ND U	55	2.7	1	04/01/21 00:08	3/24/21	
2,4-D	ND U	55	8.5	1	04/01/21 00:08	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	68	26 - 127	04/01/21 00:08	

ALS Group USA, Corp.
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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

Service Request: K2102809
Date Collected: 03/17/21 14:25
Date Received: 03/19/21 11:30

Sample Name: USMPDI-058RAB-10-20-210317
Lab Code: K2102809-002

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP (Silvex)	ND U	59	2.9	1	04/01/21 00:32	3/24/21	
2,4-D	ND U	59	9.1	1	04/01/21 00:32	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	73	26 - 127	04/01/21 00:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

Service Request: K2102809
Date Collected: 03/17/21 15:10
Date Received: 03/19/21 11:30

Sample Name: USMPDI-058RAB-20-26.2-210317
Lab Code: K2102809-003

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP (Silvex)	ND U	71	3.5	1	04/01/21 00:56	3/24/21	
2,4-D	ND U	71	11	1	04/01/21 00:56	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	71	26 - 127	04/01/21 00:56	

ALS Group USA, Corp.
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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

Service Request: K2102809
Date Collected: 03/18/21 08:40
Date Received: 03/19/21 11:30

Sample Name: USMPDI-059RAB-00-10-210318
Lab Code: K2102809-004

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP (Silvex)	ND U	56	2.7	1	04/01/21 01:21	3/24/21	
2,4-D	ND U	56	8.7	1	04/01/21 01:21	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	69	26 - 127	04/01/21 01:21	

ALS Group USA, Corp.
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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

Service Request: K2102809
Date Collected: 03/18/21 09:35
Date Received: 03/19/21 11:30

Sample Name: USMPDI-059RAB-10-20-210318
Lab Code: K2102809-005

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP (Silvex)	ND U	61	3.0	1	04/01/21 01:45	3/24/21	
2,4-D	ND U	61	9.5	1	04/01/21 01:45	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	69	26 - 127	04/01/21 01:45	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

Service Request: K2102809
Date Collected: 03/18/21 10:30
Date Received: 03/19/21 11:30

Sample Name: USMPDI-059RAB-20-25.5-210318
Lab Code: K2102809-006

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP (Silvex)	ND U	61	3.0	1	04/01/21 02:09	3/24/21	
2,4-D	ND U	61	9.4	1	04/01/21 02:09	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	78	26 - 127	04/01/21 02:09	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

Service Request: K2102809
Date Collected: 03/17/21 09:50
Date Received: 03/19/21 11:30

Sample Name: USMPDI-060RAB-00-10-210317
Lab Code: K2102809-007

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP (Silvex)	ND U	56	2.8	1	04/01/21 02:34	3/24/21	
2,4-D	ND U	56	8.7	1	04/01/21 02:34	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	68	26 - 127	04/01/21 02:34	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

Service Request: K2102809
Date Collected: 03/17/21 11:00
Date Received: 03/19/21 11:30

Sample Name: USMPDI-060RAB-10-20-210317
Lab Code: K2102809-008

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP (Silvex)	ND U	59	2.9	1	04/01/21 02:58	3/24/21	
2,4-D	ND U	59	9.2	1	04/01/21 02:58	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	68	26 - 127	04/01/21 02:58	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

Service Request: K2102809
Date Collected: 03/17/21 11:40
Date Received: 03/19/21 11:30

Sample Name: USMPDI-060RAB-20-28.1-210317
Lab Code: K2102809-009

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP (Silvex)	ND U	57	2.8	1	04/01/21 04:10	3/24/21	
2,4-D	ND U	57	8.8	1	04/01/21 04:10	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	71	26 - 127	04/01/21 04:10	

ALS Group USA, Corp.
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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

Service Request: K2102809
Date Collected: 03/17/21
Date Received: 03/19/21 11:30

Sample Name: USMPDI-1060RAB-00-10-210317
Lab Code: K2102809-010

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP (Silvex)	ND U	54	2.6	1	04/01/21 04:34	3/24/21	
2,4-D	ND U	54	8.3	1	04/01/21 04:34	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	70	26 - 127	04/01/21 04:34	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

Service Request: K2102809
Date Collected: 03/10/21 13:35
Date Received: 03/19/21 11:30

Sample Name: USMPDI-064RAB-00-10-210310
Lab Code: K2102809-011

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP (Silvex)	ND U	56	2.8	1	03/31/21 12:48	3/24/21	
2,4-D	ND Ui	56	11	1	03/31/21 12:48	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	70	26 - 127	03/31/21 12:48	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

Service Request: K2102809
Date Collected: 03/11/21 08:45
Date Received: 03/19/21 11:30

Sample Name: USMPDI-064RAB-10-20-210311
Lab Code: K2102809-012

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP (Silvex)	ND U	68	3.3	1	03/31/21 13:13	3/24/21	
2,4-D	ND U	68	11	1	03/31/21 13:13	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	47	26 - 127	03/31/21 13:13	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

Service Request: K2102809
Date Collected: 03/11/21 10:00
Date Received: 03/19/21 11:30

Sample Name: USMPDI-064RAB-20-23.4-210311
Lab Code: K2102809-013

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP (Silvex)	ND U	65	3.2	1	03/31/21 13:37	3/24/21	
2,4-D	ND U	65	11	1	03/31/21 13:37	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	59	26 - 127	03/31/21 13:37	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

Service Request: K2102809
Date Collected: 03/11/21
Date Received: 03/19/21 11:30

Sample Name: USMPDI-1064-RAB-10-20-210311
Lab Code: K2102809-014

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP (Silvex)	ND U	68	3.3	1	03/31/21 14:01	3/24/21	
2,4-D	ND U	68	11	1	03/31/21 14:01	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	50	26 - 127	03/31/21 14:01	

ALS Group USA, Corp.
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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

Service Request: K2102809
Date Collected: 03/15/21 10:45
Date Received: 03/19/21 11:30

Sample Name: USMPDI-066RAB-00-10-210315
Lab Code: K2102809-015

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP (Silvex)	ND U	55	2.7	1	04/01/21 04:58	3/24/21	
2,4-D	ND U	55	8.5	1	04/01/21 04:58	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	73	26 - 127	04/01/21 04:58	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

Service Request: K2102809
Date Collected: 03/15/21 11:40
Date Received: 03/19/21 11:30

Sample Name: USMPDI-066RAB-10-20-210315
Lab Code: K2102809-016

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP (Silvex)	ND U	56	2.7	1	04/01/21 05:23	3/24/21	
2,4-D	ND U	56	8.7	1	04/01/21 05:23	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	76	26 - 127	04/01/21 05:23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

Service Request: K2102809
Date Collected: 03/15/21 13:05
Date Received: 03/19/21 11:30

Sample Name: USMPDI-066RAB-20-22.5-210315
Lab Code: K2102809-017

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP (Silvex)	ND U	69	3.3	1	04/01/21 05:47	3/24/21	
2,4-D	ND U	69	11	1	04/01/21 05:47	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	70	26 - 127	04/01/21 05:47	

ALS Group USA, Corp.
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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

Service Request: K2102809
Date Collected: 03/16/21 10:05
Date Received: 03/19/21 11:30

Sample Name: USMPDI-067RAB-00-10-210316
Lab Code: K2102809-018

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP (Silvex)	ND U	55	2.7	1	04/01/21 06:11	3/24/21	
2,4-D	ND U	55	8.6	1	04/01/21 06:11	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	73	26 - 127	04/01/21 06:11	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

Service Request: K2102809
Date Collected: 03/16/21 11:15
Date Received: 03/19/21 11:30

Sample Name: USMPDI-067RAB-10-20-210316
Lab Code: K2102809-019

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP (Silvex)	ND U	63	3.1	1	04/01/21 06:36	3/24/21	
2,4-D	ND U	63	9.7	1	04/01/21 06:36	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	77	26 - 127	04/01/21 06:36	

ALS Group USA, Corp.
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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

Service Request: K2102809
Date Collected: 03/16/21 11:45
Date Received: 03/19/21 11:30

Sample Name: USMPDI-067RAB-20-21.9-210316
Lab Code: K2102809-020

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP (Silvex)	ND U	79	3.8	1	04/01/21 07:00	3/24/21	
2,4-D	ND U	79	13	1	04/01/21 07:00	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	48	26 - 127	04/01/21 07:00	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

Service Request: K2102809
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: KQ2104449-04

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP (Silvex)	ND U	47	2.4	1	03/31/21 11:11	3/24/21	
2,4-D	ND U	47	7.7	1	03/31/21 11:11	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	60	26 - 127	03/31/21 11:11	

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dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

Service Request: K2102809
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: KQ2104773-04

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP (Silvex)	ND U	46	2.4	1	03/31/21 22:30	3/24/21	
2,4-D	ND U	46	7.7	1	03/31/21 22:30	3/24/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	65	26 - 127	03/31/21 22:30	

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Confirmation Results

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
SRM Matrix: Soil
Sample Name: Lab Control Sample
Lab Code: KQ2104449-03

Service Request: K2102809
Date Collected: NA
Date Received:

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-TP (Silvex)	2.4	111	115	4		1	03/31/21 11:36
2,4-D	7.7	104	113	8		1	03/31/21 11:36

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Confirmation Results

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
SRM Matrix: Soil
Sample Name: USMPDI-060RAB-10-20-210317
Lab Code: KQ2104773-01

Service Request: K2102809
Date Collected: 03/17/21 11:00
Date Received: 3/19/21

Units: ug/Kg
Basis: Dry
Percent Solids: 82.6

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-TP (Silvex)	2.9	93.7	100	7		1	03/31/21 23:19
2,4-D	9.2	91.4	91.9	<1		1	03/31/21 23:19

ALS Group USA, Corp.
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Confirmation Results

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
SRM Matrix: Soil
Sample Name: USMPDI-060RAB-10-20-210317
Lab Code: KQ2104773-02

Service Request: K2102809
Date Collected: 03/17/21 11:00
Date Received: 3/19/21

Units: ug/Kg
Basis: Dry
Percent Solids: 82.6

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-TP (Silvex)	2.8	174	184	6		1	03/31/21 23:43
2,4-D	9.0	165	173	5		1	03/31/21 23:43

ALS Group USA, Corp.
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Confirmation Results

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
SRM Matrix: Soil
Sample Name: Lab Control Sample
Lab Code: KQ2104773-03

Service Request: K2102809
Date Collected: NA
Date Received:

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-TP (Silvex)	2.4	124	141	13		1	03/31/21 22:55
2,4-D	7.7	125	126	<1		1	03/31/21 22:55

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

Service Request: K2102809

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A
Extraction Method: Method

Sample Name	Lab Code	2,4-Dichlorophenylacetic Acid 26-127
USMPDI-058RAB-00-10-210317	K2102809-001	68
USMPDI-058RAB-10-20-210317	K2102809-002	73
USMPDI-058RAB-20-26.2-210317	K2102809-003	71
USMPDI-059RAB-00-10-210318	K2102809-004	69
USMPDI-059RAB-10-20-210318	K2102809-005	69
USMPDI-059RAB-20-25.5-210318	K2102809-006	78
USMPDI-060RAB-00-10-210317	K2102809-007	68
USMPDI-060RAB-10-20-210317	K2102809-008	68
USMPDI-060RAB-20-28.1-210317	K2102809-009	71
USMPDI-1060RAB-00-10-210317	K2102809-010	70
USMPDI-064RAB-00-10-210310	K2102809-011	70
USMPDI-064RAB-10-20-210311	K2102809-012	47
USMPDI-064RAB-20-23.4-210311	K2102809-013	59
USMPDI-1064-RAB-10-20-210311	K2102809-014	50
USMPDI-066RAB-00-10-210315	K2102809-015	73
USMPDI-066RAB-10-20-210315	K2102809-016	76
USMPDI-066RAB-20-22.5-210315	K2102809-017	70
USMPDI-067RAB-00-10-210316	K2102809-018	73
USMPDI-067RAB-10-20-210316	K2102809-019	77
USMPDI-067RAB-20-21.9-210316	K2102809-020	48
Method Blank	KQ2104449-04	60
Method Blank	KQ2104773-04	65
Lab Control Sample	KQ2104449-03	64
Lab Control Sample	KQ2104773-03	74
USMPDI-060RAB-10-20-210317	KQ2104773-01	42
USMPDI-060RAB-10-20-210317	KQ2104773-02	81

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

Service Request: K2102809
Date Collected: 03/17/21
Date Received: 03/19/21
Date Analyzed: 03/31/21
Date Extracted: 03/24/21

Duplicate Matrix Spike Summary
Chlorinated Herbicides by GC

Sample Name: USMPDI-060RAB-10-20-210317
Lab Code: K2102809-008
Analysis Method: 8151A
Prep Method: Method

Units: ug/Kg
Basis: Dry

Analyte Name	Sample Result	Matrix Spike KQ2104773-01			Duplicate Matrix Spike KQ2104773-02			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
2,4,5-TP (Silvex)	ND U	93.7	198	47	174	193	90	34-129	60*	40
2,4-D	ND U	91.4	198	46	165	193	85	35-129	57*	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

Service Request: K2102809
Date Analyzed: 03/31/21
Date Extracted: 03/24/21

Lab Control Sample Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Units: ug/Kg
Basis: Dry
Analysis Lot: 718306

Lab Control Sample
KQ2104449-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
2,4,5-TP (Silvex)	111	167	66	46-125
2,4-D	104	167	62	46-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

Service Request: K2102809
Date Analyzed: 03/31/21
Date Extracted: 03/24/21

Lab Control Sample Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Units: ug/Kg
Basis: Dry
Analysis Lot: 718558

Lab Control Sample
KQ2104773-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
2,4,5-TP (Silvex)	124	167	74	46-125
2,4-D	125	167	75	46-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

Service Request: K2102809
Date Analyzed: 03/31/21 11:36
Date Extracted: 03/24/21

Lab Control Sample Summary
Chlorinated Herbicides by GC

Sample Name: Lab Control Sample **Instrument ID:** K-GC-34
Lab Code: KQ2104449-03 **File ID:** J:\GC34\DATA\033121\0331000009.D\
Analysis Method: 8151A **Analysis Lot:** 718306,718558
Prep Method: Method **Extraction Lot:** 376223

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ2104449-04	J:\GC34\DATA\033121\0331000008.D\	03/31/21 11:11
USMPDI-064RAB-00-10-210310	K2102809-011	J:\GC34\DATA\033121\0331000012.D\	03/31/21 12:48
USMPDI-064RAB-10-20-210311	K2102809-012	J:\GC34\DATA\033121\0331000013.D\	03/31/21 13:13
USMPDI-064RAB-20-23.4-210311	K2102809-013	J:\GC34\DATA\033121\0331000014.D\	03/31/21 13:37
USMPDI-1064-RAB-10-20-210311	K2102809-014	J:\GC34\DATA\033121\0331000015.D\	03/31/21 14:01

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings

Service Request: K2102809
Calibration Date: 3/17/2021

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100138
Instrument ID: K-GC-34

Signal ID: Rtx-CLPesticides

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC2100138-01	PENTA02-25D-10PPB	J:\GC34\DATA\031721\03170000005.D	03/17/2021 11:54
02	KC2100138-02	PENTA02-25E-25PPB	J:\GC34\DATA\031721\03170000006.D	03/17/2021 12:18
03	KC2100138-03	PENTA02-24K-75PPB	J:\GC34\DATA\031721\03170000007.D	03/17/2021 12:42
04	KC2100138-04	PENTA02-24L-100PPB	J:\GC34\DATA\031721\03170000008.D	03/17/2021 13:06
05	KC2100138-05	PENTA02-24M-125PPB	J:\GC34\DATA\031721\03170000009.D	03/17/2021 13:30
06	KC2100138-06	PENTA02-24N-150PPB	J:\GC34\DATA\031721\03170000010.D	03/17/2021 13:54
07	KC2100138-07	PENTA02-25A-175PPB	J:\GC34\DATA\031721\03170000011.D	03/17/2021 14:18
08	KC2100138-08	PENTA02-25B-200PPB	J:\GC34\DATA\031721\03170000012.D	03/17/2021 14:42

Analyte

2,4,5-TP (Silvex)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.510	3.591E6	02	23.760	4.001E6	03	71.300	3.986E6	04	95.100	4.403E6
05	118.820	4.542E6	06	142.580	4.515E6	07	166.340	4.582E6	08	190.100	4.703E6

2,4-D

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	8.438E5	02	23.510	9.23E5	03	70.500	8.966E5	04	94.000	9.974E5
05	117.540	1.026E6	06	141.050	1.022E6	07	164.560	1.041E6	08	188.060	1.073E6

2,4-Dichlorophenylacetic Acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.020	1.047E6	02	22.550	1.062E6	03	67.600	9.596E5	04	90.200	1.027E6
05	112.730	1.048E6	06	135.280	1.027E6	07	157.830	1.024E6	08	180.370	1.048E6

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings

Service Request: K2102809
Calibration Date: 3/17/2021

**Initial Calibration Summary
Chlorinated Herbicides by GC**

Calibration ID: KC2100138
Instrument ID: K-GC-34

Signal ID: Rtx-CLPesticides

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
2,4,5-TP (Silvex)	TRG	Average RF	% RSD	9.0	20	4.29E6	
2,4-D	TRG	Average RF	% RSD	8.2	20	9.78E5	
2,4-Dichlorophenylacetic Acid	SURR	Average RF	% RSD	3.1	20	1.03E6	

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings

Service Request: K2102809
Calibration Date: 3/17/2021

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100138
Instrument ID: K-GC-34

Signal ID: Rtx-CLPesticides2

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC2100138-01	PENTA02-25D-10PPB	J:\GC34\DATA\031721\03170000005.D	03/17/2021 11:54
02	KC2100138-02	PENTA02-25E-25PPB	J:\GC34\DATA\031721\03170000006.D	03/17/2021 12:18
03	KC2100138-03	PENTA02-24K-75PPB	J:\GC34\DATA\031721\03170000007.D	03/17/2021 12:42
04	KC2100138-04	PENTA02-24L-100PPB	J:\GC34\DATA\031721\03170000008.D	03/17/2021 13:06
05	KC2100138-05	PENTA02-24M-125PPB	J:\GC34\DATA\031721\03170000009.D	03/17/2021 13:30
06	KC2100138-06	PENTA02-24N-150PPB	J:\GC34\DATA\031721\03170000010.D	03/17/2021 13:54
07	KC2100138-07	PENTA02-25A-175PPB	J:\GC34\DATA\031721\03170000011.D	03/17/2021 14:18
08	KC2100138-08	PENTA02-25B-200PPB	J:\GC34\DATA\031721\03170000012.D	03/17/2021 14:42

Analyte

2,4,5-TP (Silvex)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.510	1.389E6	02	23.760	1.421E6	03	71.300	1.361E6	04	95.100	1.481E6
05	118.820	1.512E6	06	142.580	1.487E6	07	166.340	1.508E6	08	190.100	1.543E6

2,4-D

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	8.004E5	02	23.510	7.559E5	03	70.500	6.794E5	04	94.000	7.304E5
05	117.540	7.395E5	06	141.050	7.257E5	07	164.560	7.331E5	08	188.060	7.497E5

2,4-Dichlorophenylacetic Acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.020	4.449E5	02	22.550	4.044E5	03	67.600	3.439E5	04	90.200	3.622E5
05	112.730	3.63E5	06	135.280	3.556E5	07	157.830	3.582E5	08	180.370	3.638E5

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings

Service Request: K2102809
Calibration Date: 3/17/2021

**Initial Calibration Summary
Chlorinated Herbicides by GC**

Calibration ID: KC2100138
Instrument ID: K-GC-34

Signal ID: Rtx-CLPesticides2

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
2,4,5-TP (Silvex)	TRG	Average RF	% RSD	4.4	20	1.463E6	
2,4-D	TRG	Average RF	% RSD	4.6	20	7.393E5	
2,4-Dichlorophenylacetic Acid	SURR	Average RF	% RSD	8.9	20	3.745E5	

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings

Service Request: K2102809
Calibration Date: 3/17/2021

Initial Calibration Verification Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100138
Instrument ID: K-GC-34

Signal ID: Rtx-CLPesticides

#	Lab Code	Sample Name	File Location	Acquisition Date
10	KC2100138-10	PENTA02-25C-100PPB ICV	J:\GC34\DATA\031721\03170000013.D	03/17/2021 15:06

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	94.2	4.29E6	4.249E6	-0.974	±20	Average RF
2,4-D	94.0	86.2	9.78E5	8.971E5	-8.268	±20	Average RF

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings

Service Request: K2102809
Calibration Date: 3/17/2021

Initial Calibration Verification Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100138
Instrument ID: K-GC-34

Signal ID: Rtx-CLPesticides2

#	Lab Code	Sample Name	File Location	Acquisition Date
10	KC2100138-10	PENTA02-25C-100PPB ICV	J:\GC34\DATA\031721\03170000013.D	03/17/2021 15:06

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	91.8	1.463E6	1.412E6	-3.476	±20	Average RF

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings

Service Request: K2102809
Date Analyzed: 03/31/21 10:23

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\GC34\DATA\033121\03310000006.D\
Signal ID: Rtx-CLPesticides

Calibration Date: 3/17/2021
Calibration ID: KC2100138
Analysis Lot: 718306
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	87.9	4.29E6	3.966E6	-7.5	NA	±20	Average RF
2,4-D	94.0	84.7	9.78E5	8.812E5	-9.9	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	84.9	1.03E6	8.748E5	-15.1	NA	±20	Average RF

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings

Service Request: K2102809
Date Analyzed: 03/31/21 10:23

**Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC**

Analysis Method: 8151A
File ID: J:\GC34\DATA\033121\03310000006.D\
Signal ID: Rtx-CLPesticides2

Calibration Date: 3/17/2021
Calibration ID: KC2100138
Analysis Lot: 718306
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	91.6	1.463E6	1.409E6	-3.7	NA	±20	Average RF
2,4-D	94.0	88.3	7.393E5	6.946E5	-6.0	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	83.3	3.745E5	3.118E5	-16.7	NA	±20	Average RF

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings

Service Request: K2102809
Date Analyzed: 03/31/21 14:50

**Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC**

Analysis Method: 8151A
File ID: J:\GC34\DATA\033121\03310000017.D\
Signal ID: Rtx-CLPesticides

Calibration Date: 3/17/2021
Calibration ID: KC2100138
Analysis Lot: 718306
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	89.1	4.29E6	4.019E6	-6.3	NA	±20	Average RF
2,4-D	94.0	84.0	9.78E5	8.744E5	-10.6	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	82.9	1.03E6	8.544E5	-17.1	NA	±20	Average RF

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings

Service Request: K2102809
Date Analyzed: 03/31/21 14:50

**Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC**

Analysis Method: 8151A
File ID: J:\GC34\DATA\033121\03310000017.D\
Signal ID: Rtx-CLPesticides2

Calibration Date: 3/17/2021
Calibration ID: KC2100138
Analysis Lot: 718306
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	98.4	1.463E6	1.514E6	3.5	NA	±20	Average RF
2,4-D	94.0	93.5	7.393E5	7.353E5	-0.5	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	86.1	3.745E5	3.224E5	-13.9	NA	±20	Average RF

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings

Service Request: K2102809
Date Analyzed: 03/31/21 18:05

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\GC34\DATA\033121\03310000025.D\
Signal ID: Rtx-CLPesticides

Calibration Date: 3/17/2021
Calibration ID: KC2100138
Analysis Lot: 718306
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	97.6	4.29E6	4.405E6	2.7	NA	±20	Average RF
2,4-D	94.0	91.1	9.78E5	9.48E5	-3.1	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	86.7	1.03E6	8.931E5	-13.3	NA	±20	Average RF

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings

Service Request: K2102809
Date Analyzed: 03/31/21 18:05

**Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC**

Analysis Method: 8151A
File ID: J:\GC34\DATA\033121\03310000025.D\
Signal ID: Rtx-CLPesticides2

Calibration Date: 3/17/2021
Calibration ID: KC2100138
Analysis Lot: 718306
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	100	1.463E6	1.538E6	5.2	NA	±20	Average RF
2,4-D	94.0	96.3	7.393E5	7.576E5	2.5	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	88.1	3.745E5	3.298E5	-12.0	NA	±20	Average RF

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings

Service Request: K2102809
Date Analyzed: 03/31/21 10:23

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\GC34\DATA\033121\03310000006.D\
Signal ID: Rtx-CLPesticides

Calibration Date: 3/17/2021
Calibration ID: KC2100138
Analysis Lot: 718558
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	87.9	4.29E6	3.966E6	-7.5	NA	±20	Average RF
2,4-D	94.0	84.7	9.78E5	8.812E5	-9.9	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	84.9	1.03E6	8.748E5	-15.1	NA	±20	Average RF

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings

Service Request: K2102809
Date Analyzed: 03/31/21 10:23

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\GC34\DATA\033121\03310000006.D\
Signal ID: Rtx-CLPesticides2

Calibration Date: 3/17/2021
Calibration ID: KC2100138
Analysis Lot: 718558
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	91.6	1.463E6	1.409E6	-3.7	NA	±20	Average RF
2,4-D	94.0	88.3	7.393E5	6.946E5	-6.0	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	83.3	3.745E5	3.118E5	-16.7	NA	±20	Average RF

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings

Service Request: K2102809
Date Analyzed: 03/31/21 14:50

**Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC**

Analysis Method: 8151A
File ID: J:\GC34\DATA\033121\03310000017.D\
Signal ID: Rtx-CLPesticides

Calibration Date: 3/17/2021
Calibration ID: KC2100138
Analysis Lot: 718558
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	89.1	4.29E6	4.019E6	-6.3	NA	±20	Average RF
2,4-D	94.0	84.0	9.78E5	8.744E5	-10.6	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	82.9	1.03E6	8.544E5	-17.1	NA	±20	Average RF

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings

Service Request: K2102809
Date Analyzed: 03/31/21 14:50

**Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC**

Analysis Method: 8151A
File ID: J:\GC34\DATA\033121\03310000017.D\
Signal ID: Rtx-CLPesticides2

Calibration Date: 3/17/2021
Calibration ID: KC2100138
Analysis Lot: 718558
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	98.4	1.463E6	1.514E6	3.5	NA	±20	Average RF
2,4-D	94.0	93.5	7.393E5	7.353E5	-0.5	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	86.1	3.745E5	3.224E5	-13.9	NA	±20	Average RF

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings

Service Request: K2102809
Date Analyzed: 03/31/21 21:42

**Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC**

Analysis Method: 8151A
File ID: J:\GC34\DATA\033121\03310000034.D\
Signal ID: Rtx-CLPesticides

Calibration Date: 3/17/2021
Calibration ID: KC2100138
Analysis Lot: 718558
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	90.7	4.29E6	4.09E6	-4.7	NA	±20	Average RF
2,4-D	94.0	87.9	9.78E5	9.14E5	-6.5	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	88.0	1.03E6	9.07E5	-12.0	NA	±20	Average RF

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings

Service Request: K2102809
Date Analyzed: 03/31/21 21:42

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\GC34\DATA\033121\03310000034.D\
Signal ID: Rtx-CLPesticides2

Calibration Date: 3/17/2021
Calibration ID: KC2100138
Analysis Lot: 718558
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	99.4	1.463E6	1.529E6	4.5	NA	±20	Average RF
2,4-D	94.0	95.6	7.393E5	7.52E5	1.7	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	89.2	3.745E5	3.341E5	-10.8	NA	±20	Average RF

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings

Service Request: K2102809
Date Analyzed: 04/01/21 03:22

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\GC34\DATA\033121\03310000048.D\
Signal ID: Rtx-CLPesticides

Calibration Date: 3/17/2021
Calibration ID: KC2100138
Analysis Lot: 718558
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	94.8	4.29E6	4.277E6	-0.3	NA	±20	Average RF
2,4-D	94.0	92.0	9.78E5	9.571E5	-2.1	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	88.7	1.03E6	9.14E5	-11.3	NA	±20	Average RF

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings

Service Request: K2102809
Date Analyzed: 04/01/21 03:22

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\GC34\DATA\033121\03310000048.D\
Signal ID: Rtx-CLPesticides2

Calibration Date: 3/17/2021
Calibration ID: KC2100138
Analysis Lot: 718558
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	103	1.463E6	1.592E6	8.8	NA	±20	Average RF
2,4-D	94.0	99.0	7.393E5	7.788E5	5.3	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	90.7	3.745E5	3.396E5	-9.3	NA	±20	Average RF

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings

Service Request: K2102809
Date Analyzed: 04/01/21 07:24

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\GC34\DATA\033121\03310000058.D\
Signal ID: Rtx-CLPesticides

Calibration Date: 3/17/2021
Calibration ID: KC2100138
Analysis Lot: 718558
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	94.3	4.29E6	4.255E6	-0.8	NA	±20	Average RF
2,4-D	94.0	92.0	9.78E5	9.577E5	-2.1	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	89.5	1.03E6	9.222E5	-10.5	NA	±20	Average RF

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings

Service Request: K2102809
Date Analyzed: 04/01/21 07:24

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\GC34\DATA\033121\03310000058.D\
Signal ID: Rtx-CLPesticides2

Calibration Date: 3/17/2021
Calibration ID: KC2100138
Analysis Lot: 718558
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	103	1.463E6	1.589E6	8.6	NA	±20	Average RF
2,4-D	94.0	98.9	7.393E5	7.777E5	5.2	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	90.7	3.745E5	3.395E5	-9.3	NA	±20	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings

Service Request:K2102809

Analysis Run Log
Chlorinated Herbicides by GC

Analysis Method: 8151A

Analysis Lot:718306
Instrument ID:K-GC-34

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\GC34\DATA\033121\0331000006.D\	Continuing Calibration Verification	KQ2105113-01	3/31/2021	10:23:14	
J:\GC34\DATA\033121\0331000007.D\	Continuing Calibration Blank	KQ2105113-02	3/31/2021	10:47:41	
J:\GC34\DATA\033121\0331000008.D\	Method Blank	KQ2104449-04	3/31/2021	11:11:46	
J:\GC34\DATA\033121\0331000009.D\	Lab Control Sample	KQ2104449-03	3/31/2021	11:36:20	
J:\GC34\DATA\033121\0331000010.D\	ZZZZZZZ	ZZZZZZZ	3/31/2021	12:00:24	
J:\GC34\DATA\033121\0331000011.D\	ZZZZZZZ	ZZZZZZZ	3/31/2021	12:24:26	
J:\GC34\DATA\033121\0331000016.D\	ZZZZZZZ	ZZZZZZZ	3/31/2021	14:26:14	
J:\GC34\DATA\033121\0331000017.D\	Continuing Calibration Verification	KQ2105113-03	3/31/2021	14:50:28	
J:\GC34\DATA\033121\0331000018.D\	Continuing Calibration Blank	KQ2105113-04	3/31/2021	15:14:57	
J:\GC34\DATA\033121\0331000019.D\	ZZZZZZZ	ZZZZZZZ	3/31/2021	15:39:19	
J:\GC34\DATA\033121\0331000020.D\	ZZZZZZZ	ZZZZZZZ	3/31/2021	16:03:18	
J:\GC34\DATA\033121\0331000021.D\	ZZZZZZZ	ZZZZZZZ	3/31/2021	16:27:41	
J:\GC34\DATA\033121\0331000022.D\	ZZZZZZZ	ZZZZZZZ	3/31/2021	16:52:03	
J:\GC34\DATA\033121\0331000023.D\	ZZZZZZZ	ZZZZZZZ	3/31/2021	17:16:24	
J:\GC34\DATA\033121\0331000024.D\	ZZZZZZZ	ZZZZZZZ	3/31/2021	17:40:41	
J:\GC34\DATA\033121\0331000025.D\	Continuing Calibration Verification	KQ2105113-05	3/31/2021	18:05:04	
J:\GC34\DATA\033121\0331000026.D\	Continuing Calibration Blank	KQ2105113-06	3/31/2021	18:29:21	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings

Service Request:K2102809

Analysis Run Log
Chlorinated Herbicides by GC

Analysis Method: 8151A

Analysis Lot:718558
Instrument ID:K-GC-34

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\GC34\DATA\033121\0331000006.D\	Continuing Calibration Verification	KQ2105296-01	3/31/2021	10:23:14	
J:\GC34\DATA\033121\0331000007.D\	Continuing Calibration Blank	KQ2105296-02	3/31/2021	10:47:41	
J:\GC34\DATA\033121\0331000012.D\	USMPDI-064RAB-00-10-210310	K2102809-011	3/31/2021	12:48:58	
J:\GC34\DATA\033121\0331000013.D\	USMPDI-064RAB-10-20-210311	K2102809-012	3/31/2021	13:13:05	
J:\GC34\DATA\033121\0331000014.D\	USMPDI-064RAB-20-23.4-210311	K2102809-013	3/31/2021	13:37:14	
J:\GC34\DATA\033121\0331000015.D\	USMPDI-1064-RAB-10-20-210311	K2102809-014	3/31/2021	14:01:43	
J:\GC34\DATA\033121\0331000017.D\	Continuing Calibration Verification	KQ2105296-03	3/31/2021	14:50:28	
J:\GC34\DATA\033121\0331000018.D\	Continuing Calibration Blank	KQ2105296-04	3/31/2021	15:14:57	
J:\GC34\DATA\033121\0331000034.D\	Continuing Calibration Verification	KQ2105296-05	3/31/2021	21:42:28	
J:\GC34\DATA\033121\0331000035.D\	Continuing Calibration Blank	KQ2105296-06	3/31/2021	22:06:52	
J:\GC34\DATA\033121\0331000036.D\	Method Blank	KQ2104773-04	3/31/2021	22:30:57	
J:\GC34\DATA\033121\0331000037.D\	Lab Control Sample	KQ2104773-03	3/31/2021	22:55:09	
J:\GC34\DATA\033121\0331000038.D\	USMPDI-060RAB-10-20-210317 MS	KQ2104773-01	3/31/2021	23:19:32	
J:\GC34\DATA\033121\0331000039.D\	USMPDI-060RAB-10-20-210317 DMS	KQ2104773-02	3/31/2021	23:43:52	
J:\GC34\DATA\033121\0331000040.D\	USMPDI-058RAB-00-10-210317	K2102809-001	4/1/2021	00:08:11	
J:\GC34\DATA\033121\0331000041.D\	USMPDI-058RAB-10-20-210317	K2102809-002	4/1/2021	00:32:29	
J:\GC34\DATA\033121\0331000042.D\	USMPDI-058RAB-20-26.2-210317	K2102809-003	4/1/2021	00:56:58	
J:\GC34\DATA\033121\0331000043.D\	USMPDI-059RAB-00-10-210318	K2102809-004	4/1/2021	01:21:13	
J:\GC34\DATA\033121\0331000044.D\	USMPDI-059RAB-10-20-210318	K2102809-005	4/1/2021	01:45:37	
J:\GC34\DATA\033121\0331000045.D\	USMPDI-059RAB-20-25.5-210318	K2102809-006	4/1/2021	02:09:52	
J:\GC34\DATA\033121\0331000046.D\	USMPDI-060RAB-00-10-210317	K2102809-007	4/1/2021	02:34:13	
J:\GC34\DATA\033121\0331000047.D\	USMPDI-060RAB-10-20-210317	K2102809-008	4/1/2021	02:58:08	
J:\GC34\DATA\033121\0331000048.D\	Continuing Calibration Verification	KQ2105296-07	4/1/2021	03:22:31	
J:\GC34\DATA\033121\0331000049.D\	Continuing Calibration Blank	KQ2105296-08	4/1/2021	03:46:54	
J:\GC34\DATA\033121\0331000050.D\	USMPDI-060RAB-20-28.1-210317	K2102809-009	4/1/2021	04:10:52	
J:\GC34\DATA\033121\0331000051.D\	USMPDI-1060RAB-00-10-210317	K2102809-010	4/1/2021	04:34:47	
J:\GC34\DATA\033121\0331000052.D\	USMPDI-066RAB-00-10-210315	K2102809-015	4/1/2021	04:58:44	
J:\GC34\DATA\033121\0331000053.D\	USMPDI-066RAB-10-20-210315	K2102809-016	4/1/2021	05:23:09	
J:\GC34\DATA\033121\0331000054.D\	USMPDI-066RAB-20-22.5-210315	K2102809-017	4/1/2021	05:47:35	
J:\GC34\DATA\033121\0331000055.D\	USMPDI-067RAB-00-10-210316	K2102809-018	4/1/2021	06:11:59	
J:\GC34\DATA\033121\0331000056.D\	USMPDI-067RAB-10-20-210316	K2102809-019	4/1/2021	06:36:00	
J:\GC34\DATA\033121\0331000057.D\	USMPDI-067RAB-20-21.9-210316	K2102809-020	4/1/2021	07:00:02	
J:\GC34\DATA\033121\0331000058.D\	Continuing Calibration Verification	KQ2105296-09	4/1/2021	07:24:03	
J:\GC34\DATA\033121\0331000059.D\	Continuing Calibration Blank	KQ2105296-10	4/1/2021	07:48:30	

ALS Group USA, Corp.
dba ALS Environmental

Prep Summary Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

Service Request: K2102809

Chlorinated Herbicides by GC

Prep Method: Method
Analytical Method: 8151A

Extraction Lot: 376465
Extraction Date: 03/24/21 16:30

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
USMPDI-058RAB-00-10-210317	K2102809-001	3/17/21	3/19/21	30.376 g	50 mL	89.9
USMPDI-058RAB-10-20-210317	K2102809-002	3/17/21	3/19/21	30.279 g	50 mL	84.2
USMPDI-058RAB-20-26.2-210317	K2102809-003	3/17/21	3/19/21	30.232 g	50 mL	69.6
USMPDI-059RAB-00-10-210318	K2102809-004	3/18/21	3/19/21	30.212 g	50 mL	88.8
USMPDI-059RAB-10-20-210318	K2102809-005	3/18/21	3/19/21	30.242 g	50 mL	81.0
USMPDI-059RAB-20-25.5-210318	K2102809-006	3/18/21	3/19/21	30.368 g	50 mL	81.3
USMPDI-060RAB-00-10-210317	K2102809-007	3/17/21	3/19/21	30.276 g	50 mL	88.0
USMPDI-060RAB-10-20-210317	K2102809-008	3/17/21	3/19/21	30.528 g	50 mL	82.6
USMPDI-060RAB-20-28.1-210317	K2102809-009	3/17/21	3/19/21	32.946 g	50 mL	79.9
USMPDI-1060RAB-00-10-210317	K2102809-010	3/17/21	3/19/21	31.402 g	50 mL	88.9
USMPDI-066RAB-00-10-210315	K2102809-015	3/15/21	3/19/21	30.523 g	50 mL	89.8
USMPDI-066RAB-10-20-210315	K2102809-016	3/15/21	3/19/21	30.250 g	50 mL	88.3
USMPDI-066RAB-20-22.5-210315	K2102809-017	3/15/21	3/19/21	30.564 g	50 mL	71.4
USMPDI-067RAB-00-10-210316	K2102809-018	3/16/21	3/19/21	30.428 g	50 mL	88.9
USMPDI-067RAB-10-20-210316	K2102809-019	3/16/21	3/19/21	31.939 g	50 mL	74.7
USMPDI-067RAB-20-21.9-210316	K2102809-020	3/16/21	3/19/21	30.111 g	50 mL	63.4
Matrix Spike	KQ2104773-01MS	3/17/21	3/19/21	30.520 g	50 mL	82.6
Duplicate Matrix Spike	KQ2104773-02DMS	3/17/21	3/19/21	31.341 g	50 mL	82.6
Lab Control Sample	KQ2104773-03LCS	NA	NA	30.00 g	50 mL	
Method Blank	KQ2104773-04MB	NA	NA	32.9460 g	50 mL	

ALS Group USA, Corp.
dba ALS Environmental

Prep Summary Report

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Soil

Service Request: K2102809

Chlorinated Herbicides by GC

Prep Method: Method
Analytical Method: 8151A

Extraction Lot: 376223
Extraction Date: 03/24/21 21:30

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
USMPDI-064RAB-00-10-210310	K2102809-011	3/10/21	3/19/21	31.369 g	50 mL	84.9
USMPDI-064RAB-10-20-210311	K2102809-012	3/11/21	3/19/21	30.740 g	50 mL	72.0
USMPDI-064RAB-20-23.4-210311	K2102809-013	3/11/21	3/19/21	31.752 g	50 mL	72.4
USMPDI-1064-RAB-10-20-210311	K2102809-014	3/11/21	3/19/21	31.055 g	50 mL	71.4
Lab Control Sample	KQ2104449-03LCS	NA	NA	30.00 g	50 mL	
Method Blank	KQ2104449-04MB	NA	NA	32.1880 g	50 mL	



Raw Data

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com



Total Solids

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Work Request # K2102809
 Tier: IV
 Date Analyzed: 3/23/21
 Analyst: BN Run # 717180
 Analysis: Total Solids / SM 25406

**DATA QUALITY REPORT
INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

- | | | |
|-----|---|-----------|
| 1. | Is the method name and number correct and appropriate? | yes/no/NA |
| 2. | Holding times met for all analyses and for all samples? | yes/no/NA |
| 3. | Are calculations correct? | yes/no/NA |
| 4. | Is the reporting basis correct? (Dry Weight) | yes/no/NA |
| 5. | All quality control criteria met? | yes/no |
| 6. | Is the calibration curve correlation coefficient ≥ 0.995 ? | yes/no/NA |
| 7. | MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency? | yes/no/NA |
| 8. | Are ICVs, CCVs, and CCBs all within acceptance limits? | yes/no/NA |
| 9. | Are results for methods blanks all ND? | yes/no/NA |
| 10. | Are all QC samples within acceptance criteria?
(LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.) | yes/no/NA |
| 11. | Are all exceptions explained? | yes/no/NA |
| 12. | Have all applicable service requests been reviewed? | yes/no/NA |
| 13. | Are all samples labeled correctly? | yes/no/NA |
| 14. | Have all instructions on the service request been followed?
(e.g. Special MRLs, QC on a specific sample, Form V) | yes/no/NA |
| 15. | Are detection limits and units reported correctly? | yes/no/NA |
| 16. | Is the unused space on the benchsheet crossed out? | yes/no/NA |
| 17. | Was analysis turned in by the data due date? (If not record SR#) | yes/no/NA |

COMMENTS:

Final Approved by: DAB Date: 3/24/21
 DQREPORT

Analytical Results Summary

Instrument Name: K-Balance-41

Analyst: BNETLING

Analysis Lot: 717180

Method/Testcode: SM 2540 G/TS

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC? Tier
K2102809-001	Solids, Total	N/A		Soil	89.90 Percent	25.5015 g	89.9 Percent	1					3/23/21 14:15:00	N IV
K2102809-002	Solids, Total	N/A		Soil	84.20 Percent	27.4843 g	84.2 Percent	1					3/23/21 14:15:00	N IV
K2102809-003	Solids, Total	N/A		Soil	69.60 Percent	25.5481 g	69.6 Percent	1					3/23/21 14:15:00	N IV
K2102809-004	Solids, Total	N/A		Soil	88.80 Percent	29.2429 g	88.8 Percent	1					3/23/21 14:15:00	N IV
K2102809-005	Solids, Total	N/A		Soil	81.00 Percent	27.1773 g	81.0 Percent	1					3/23/21 14:15:00	N IV
K2102809-006	Solids, Total	N/A		Soil	81.30 Percent	28.0849 g	81.3 Percent	1					3/23/21 14:15:00	N IV
K2102809-007	Solids, Total	N/A		Soil	88.00 Percent	32.5473 g	88.0 Percent	1					3/23/21 14:15:00	N IV
K2102809-008	Solids, Total	N/A		Soil	82.60 Percent	26.6620 g	82.6 Percent	1					3/23/21 14:15:00	Y IV
K2102809-009	Solids, Total	N/A		Soil	79.90 Percent	30.4189 g	79.9 Percent	1					3/23/21 14:15:00	N IV
K2102809-010	Solids, Total	N/A		Soil	88.90 Percent	35.5652 g	88.9 Percent	1					3/23/21 14:15:00	N IV
K2102809-011	Solids, Total	N/A		Soil	84.90 Percent	30.5166 g	84.9 Percent	1					3/23/21 14:15:00	N IV
K2102809-012	Solids, Total	N/A		Soil	72.00 Percent	27.8410 g	72.0 Percent	1					3/23/21 14:15:00	N IV
K2102809-013	Solids, Total	N/A		Soil	72.40 Percent	25.4160 g	72.4 Percent	1					3/23/21 14:15:00	N IV
K2102809-014	Solids, Total	N/A		Soil	71.40 Percent	27.6936 g	71.4 Percent	1					3/23/21 14:15:00	N IV
K2102809-015	Solids, Total	N/A		Soil	89.80 Percent	28.9099 g	89.8 Percent	1					3/23/21 14:15:00	N IV
K2102809-016	Solids, Total	N/A		Soil	88.30 Percent	29.0984 g	88.3 Percent	1					3/23/21 14:15:00	N IV
K2102809-017	Solids, Total	N/A		Soil	71.40 Percent	43.7589 g	71.4 Percent	1					3/23/21 14:15:00	N IV
K2102809-018	Solids, Total	N/A		Soil	88.90 Percent	31.7385 g	88.9 Percent	1					3/23/21 14:15:00	N IV
K2102809-019	Solids, Total	N/A		Soil	74.70 Percent	30.9535 g	74.7 Percent	1					3/23/21 14:15:00	N IV
K2102809-020	Solids, Total	N/A		Soil	63.40 Percent	25.7764 g	63.4 Percent	1					3/23/21 14:15:00	N IV
KQ2104550-01	Solids, Total	MB		Soil	0.00 Percent	50.2115 g	0.0 Percent	1					3/23/21 14:15:00	N IV
KQ2104550-02	Solids, Total	DUP	K2102809-001	Soil	90.10 Percent	26.6995 g	90.1 Percent	1				<1	3/23/21 14:15:00	N IV
KQ2104550-03	Solids, Total	DUP	K2102809-008	Soil	83.60 Percent	26.3963 g	83.6 Percent	1				1	3/23/21 14:15:00	N IV

DAB 3/24/21

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.



Chlorinated Herbicides by GC

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 376465
Team: Semivoa GC/GTRIGG
Number of Copies to make: 1

Prep Workflow: OrgHerbs(14)
Prep Method: Method

Status: Prepped
Prep Date/Time: 3/23/21 17:24
 3-23-21 1630

#	Lab Code	Client ID	B#	Method / Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	K2102809-001	USMPDI-058RAB-00-10-210317	.01	8151A/HERB		Soil	30.376g	50.00mL	JGRIMES k-balance-50
2	K2102809-002	USMPDI-058RAB-10-20-210317	.01	8151A/HERB		Soil	30.279g	50.00mL	JGRIMES k-balance-50
3	K2102809-003	USMPDI-058RAB-20-26-210317	.01	8151A/HERB		Soil	30.232g	50.00mL	JGRIMES k-balance-50
4	K2102809-004	USMPDI-059RAB-00-10-210318	.01	8151A/HERB		Soil	30.212g	50.00mL	JGRIMES k-balance-50
5	K2102809-005	USMPDI-059RAB-10-20-210318	.01	8151A/HERB		Soil	30.242g	50.00mL	JGRIMES k-balance-50
6	K2102809-006	USMPDI-059RAB-20-25-210318	.01	8151A/HERB		Soil	30.368g	50.00mL	JGRIMES k-balance-50
7	K2102809-007	USMPDI-060RAB-00-10-210317	.01	8151A/HERB		Soil	30.276g	50.00mL	JGRIMES k-balance-50
8	K2102809-008	USMPDI-060RAB-10-20-210317	.01	8151A/HERB		Soil	30.528g	50.00mL	JGRIMES k-balance-50
9	KQ2104773-01	K2102809-008 MS	.01	8151A/HERB		Solid	30.520g	50.00mL	JGRIMES k-balance-50
10	KQ2104773-02	K2102809-008 DMS	.01	8151A/HERB		Solid	31.341g	50.00mL	JGRIMES k-balance-50
11	K2102809-009	USMPDI-060RAB-20-28-1-210317	.01	8151A/HERB		Soil	32.946g	50.00mL	JGRIMES k-balance-50
12	K2102809-010	USMPDI-1060RAB-00-10-210317	.01	8151A/HERB		Soil	31.402g	50.00mL	JGRIMES k-balance-50
13	K2102809-015	USMPDI-066RAB-00-10-210315	.01	8151A/HERB		Soil	30.523g	50.00mL	JGRIMES k-balance-50
14	K2102809-016	USMPDI-066RAB-10-20-210315	.01	8151A/HERB		Soil	30.250g	50.00mL	JGRIMES k-balance-50
15	K2102809-017	USMPDI-066RAB-20-22-5-210315	.01	8151A/HERB		Soil	30.564g	50.00mL	JGRIMES k-balance-50
16	K2102809-018	USMPDI-067RAB-00-10-210316	.01	8151A/HERB		Soil	30.428g	50.00mL	JGRIMES k-balance-50
17	K2102809-019	USMPDI-067RAB-10-20-210316	.01	8151A/HERB		Soil	31.939g	50.00mL	JGRIMES k-balance-50
18	K2102809-020	USMPDI-067RAB-20-21-9-210316	.01	8151A/HERB		Soil	30.111g	50.00mL	JGRIMES k-balance-50
19	KQ2104773-03	LCS		8151A/HERB		Solid	30.00g	50.00mL	
20	KQ2104773-04	MB		8151A/HERB		Solid	32.9460g	50.00mL	

Spiking Solutions

Name: 8151A 5ppm Herbicide surrogate		Inventory ID	215465	Logbook Ref:	Penta02-16IK	Expires On:	05/24/2021
K2102809-001	1,000.00µL	K2102809-002	1,000.00µL	K2102809-003	1,000.00µL	K2102809-004	1,000.00µL
K2102809-007	1,000.00µL	K2102809-008	1,000.00µL	K2102809-009	1,000.00µL	K2102809-010	1,000.00µL
K2102809-017	1,000.00µL	K2102809-018	1,000.00µL	K2102809-019	1,000.00µL	K2102809-020	1,000.00µL
KQ2104773-03	1,000.00µL	KQ2104773-04	1,000.00µL			KQ2104773-01	1,000.00µL
Name: 8151A 5-500ppm Herbicides matrix spike		Inventory ID	216037	Logbook Ref:	Penta02-24H	Expires On:	09/04/2021
KQ2104773-01	1,000.00µL	KQ2104773-02	1,000.00µL	KQ2104773-03	1,000.00µL		

Preparation Information Benchsheet

Prep Run#: 376465
 Team: Semivoa GC/GTRIGG

Prep Workflow: OrigHerbs(14)
 Prep Method: Method

Status: Prepped
 Prep Date/Time: 3/23/21 12:24

Preparation Steps

Step:	Weight	Step:	Extraction	Step:	Derivatization	Step:	Final Volume
Started:	3/23/21 12:24	Started:	3/26/21 16:15	Started:	3/29/21 16:15	Started:	3/29/21 17:56
Finished:	3/25/21 16:30	Finished:	3/26/21 18:00	Finished:	3/29/21 16:45	Finished:	3/29/21 17:56
By:	GTRIGG	By:	GTRIGG	By:	GTRIGG	By:	GTRIGG
Comments:		Comments:		Comments:		Comments:	

03.30.21

Comments: StyHwin CI-DIC

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: 	Date: <u>3/29/21</u>
Received By: 	Date: <u>3.31.21</u>
Extracts Examined <input checked="" type="radio"/> Yes <input type="radio"/> No	

Preparation Information Benchsheet

Prep Run#: 376465 **Status:** Draft
Team: Semivoa GC/GTRIGG **Prep Workflow:** OrgHerbS(14)
Number of Copies to make: 1 **Prep Method:** Method
Prep Date/Time: 3/26/21 06:58 PM

#	Lab Code	Client ID	B#	Method / Test	Matrix	Amt. Ext.	pH	Int. Vol	Final Vol	Surr. Amt	Spike Amt
1	K2102809-001	USMPDI-058RAB-00-10-210317	.01	8151A/HERB	Soil	30.376	—	10	1	1000	—
2	K2102809-002	USMPDI-058RAB-10-20-210317	.01	8151A/HERB	Soil	30.278	—	10	1	—	—
3	K2102809-003	USMPDI-058RAB-20-26.2-210317	.01	8151A/HERB	Soil	30.252	—	10	1	—	—
4	K2102809-004	USMPDI-059RAB-00-10-210318	.01	8151A/HERB	Soil	30.212	—	10	1	—	—
5	K2102809-005	USMPDI-059RAB-10-20-210318	.01	8151A/HERB	Soil	30.242	—	10	1	—	—
6	K2102809-006	USMPDI-059RAB-20-25.5-210318	.01	8151A/HERB	Soil	30.362	—	10	1	—	—
7	K2102809-007	USMPDI-060RAB-00-10-210317	.01	8151A/HERB	Soil	30.276	—	10	1	—	—
8	K2102809-008	USMPDI-060RAB-10-20-210317	.01	8151A/HERB	Soil	30.528	—	10	1	—	—
9	KQ2104773-01	K2102809-008 MS	.01	8151A/HERB	Solid	30.520	—	10	1	1000	1000
10	KQ2104773-02	K2102809-008 DMS	.01	8151A/HERB	Solid	31.341	—	10	1	1000	1000
11	K2102809-009	USMPDI-060RAB-20-28.1-210317	.01	8151A/HERB	Soil	32.946	—	10	1	—	—
12	K2102809-010	USMPDI-1060RAB-00-10-210317	.01	8151A/HERB	Soil	31.402	—	10	1	—	—
13	K2102809-015	USMPDI-066RAB-00-10-210315	.01	8151A/HERB	Soil	30.523	—	10	1	—	—
14	K2102809-016	USMPDI-066RAB-10-20-210315	.01	8151A/HERB	Soil	30.250	—	10	1	—	—
15	K2102809-017	USMPDI-066RAB-20-22.5-210315	.01	8151A/HERB	Soil	30.564	—	10	1	—	—
16	K2102809-018	USMPDI-067RAB-00-10-210316	.01	8151A/HERB	Soil	30.428	—	10	1	—	—
17	K2102809-019	USMPDI-067RAB-10-20-210316	.01	8151A/HERB	Soil	31.939	—	10	1	—	—
18	K2102809-020	USMPDI-067RAB-20-21.9-210316	.01	8151A/HERB	Soil	30.111	—	10	1	—	—
19	KQ2104773-03	LCS		8151A/HERB	Solid	30.000	—	10	1	1000	1000
20	KQ2104773-04	MB		8151A/HERB	Solid	32.946	—	10	1	—	—

3/26/21 : U.G. 3871 related to current U.G. 4773 AH

Comments:

Surrogate ID: Removal 16k Active 5mms used XP 5/24/21 Spike ID: Removal 24H Active 5-500ppm used XP 9/4/21

Witnessed By: _____ Assisted By: _____
 Analyst: [Signature]

Preparation Information Benchsheet

Prep Run#: 376223
Team: Semivoa GC/GTRIGG
Number of Copies to make: 3

Prep Workflow: OrgHerbs(14)
Prep Method: Method

Status: Prepped
Prep Date/Time: 3/23/21 11:44
 3.24.21 2130

#	Lab Code	Client ID	E#	Method / Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	K2102809-011	USMPDI-064RAB-00-10-210310	.01	8151A/HERB		Soil	31.369g	50.00mL	JGRIMES k-balance-50
2	K2102809-012	USMPDI-064RAB-10-20-210311	.01	8151A/HERB		Soil	30.740g	50.00mL	JGRIMES k-balance-50
3	K2102809-013	USMPDI-064RAB-20-23-4-210311	.01	8151A/HERB		Soil	31.752g	50.00mL	JGRIMES k-balance-50
4	K2102809-014	USMPDI-1064-RAB-10-20-210311	.01	8151A/HERB		Soil	31.055g	50.00mL	JGRIMES k-balance-50
5	K2102868-001	EV21030151-01	.01	8151A/HERB		Soil	30.802g	50.00mL	SCHAPPELLE K-BALANCE-47
6	K2102811-001	USMPDI-068RAB-00-10-210311	.01	8151A/HERB		Soil	32.188g	50.00mL	JGRIMES k-balance-50
7	K2102811-002	USMPDI-068RAB-10-20-210311	.01	8151A/HERB		Soil	30.129g	50.00mL	JGRIMES k-balance-50
8	KQ2104449-01	K2102811-002 MS	.01	8151A/HERB		Solid	30.250g	50.00mL	JGRIMES k-balance-50
9	KQ2104449-02	K2102811-002 DMS	.01	8151A/HERB		Solid	30.511g	50.00mL	JGRIMES k-balance-50
10	K2102811-003	USMPDI-068RAB-20-32.1-210312	.01	8151A/HERB		Soil	30.690g	50.00mL	JGRIMES k-balance-50
11	K2102811-004	USMPDI-069RAB-00-10-210312	.01	8151A/HERB		Soil	30.699g	50.00mL	JGRIMES k-balance-50
12	K2102811-005	USMPDI-069RAB-10-20-210312	.01	8151A/HERB		Soil	30.841g	50.00mL	JGRIMES k-balance-50
13	K2102811-006	USMPDI-069RAB-20-36.3-210312	.01	8151A/HERB		Soil	30.437g	50.00mL	JGRIMES k-balance-50
14	KQ2104449-03	LCS		8151A/HERB		Solid	30.00g	50.00mL	JGRIMES k-balance-50
15	KQ2104449-04	MB		8151A/HERB		Solid	32.1880g	50.00mL	

Spiking Solutions

Name:	8151A 5ppm Herbicide surrogate	Inventory ID	215465	Logbook Ref:	Penta02-16IK	Expires On:	05/24/2021
K2102809-011	1,000.00µL	K2102809-012	1,000.00µL	K2102809-014	1,000.00µL	K2102811-001	1,000.00µL
K2102811-003	1,000.00µL	K2102811-004	1,000.00µL	K2102811-006	1,000.00µL	K2102868-001	1,000.00µL
KQ2104449-02	1,000.00µL	KQ2104449-03	1,000.00µL	KQ2104449-04	1,000.00µL	KQ2104449-01	1,000.00µL
Name:	8151A 5-500ppm Herbicides matrix spike	Inventory ID	216037	Logbook Ref:	Penta02-24H	Expires On:	09/04/2021
KQ2104449-01	1,000.00µL	KQ2104449-02	1,000.00µL	KQ2104449-03	1,000.00µL		

Preparation Steps

Step:	Weight	Started:	3/23/21 11:44	Step:	Extraction	Started:	3/26/21 16:15	Step:	Derivatization	Started:	3/29/21 16:25	Step:	Final Volume	Started:	3/29/21 18:13
Finished:	3/23/21 23:55	By:	GTRIGG	Finished:	3/26/21 18:05	By:	GTRIGG	Finished:	3/29/21 16:55	By:	GTRIGG	Finished:	3/29/21 18:13	By:	GTRIGG
Comments:	JGRIMES	Comments:		Comments:		Comments:		Comments:		Comments:		Comments:		Comments:	


 03.30.21

Preparation Information Benchsheet

Prep Run#: 376223
Team: Semiyoa GC/GTRIGG

Prep WorkFlow: OrgHerbs(14)
Prep Method: Method

Status: Prepped
Prep Date/Time: 3/23/21 11:44

Comments: Skytrain A1-B5

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

[Handwritten Signature]

Date: 3/29/21

Date: 3.31.21

Extracts Examined
 Yes
 No

Preparation Information Benchsheet

Prep Run#: 376223
 Team: SemiVoia GC/GTRIGG
 Number of Copies to make: 3

Prep Workflow: OrgHerbs(14)
 Prep Method: Method

Status: Draft
 Prep Date/Time: 3/23/21 11:44 AM

#	Lab Code	Client ID	B#	Method / Test	Matrix	Amt. Ext.	pH	Int. Vol	Final Vol	Surr Amt	Spike Amt
1	K2102809-011	USMPDI-064RAB-00-10-210310	.01	8151A/HERB	Soil	31.369	✓	10	1	1000	—
2	K2102809-012	USMPDI-064RAB-10-20-210311	.01	8151A/HERB	Soil	30.740	✓	10	1	1000	—
3	K2102809-013	USMPDI-064RAB-20-23-4-210311	.01	8151A/HERB	Soil	31.752	✓	10	1	1000	—
4	K2102809-014	USMPDI-1064-RAB-10-20-210311	.01	8151A/HERB	Soil	31.055	✓	10	1	1000	—
5	K2102868-001	EV21030151-01	.01	8151A/HERB	Soil	30.802	✓	10	1	1000	—
6	K2102811-001	USMPDI-068RAB-00-10-210311	.01	8151A/HERB	Soil	32.188	✓	10	1	1000	—
7	K2104449-01	K2102811-002 MS	.01	8151A/HERB	Solid	30.511	✓	10	1	1000	—
8	K2104449-02	K2102811-002 DMS	.01	8151A/HERB	Solid	30.690	✓	10	1	1000	—
9	K2102811-003	USMPDI-068RAB-20-32.1-210312	.01	8151A/HERB	Soil	30.699	✓	10	1	1000	—
10	K2102811-004	USMPDI-069RAB-00-10-210312	.01	8151A/HERB	Soil	30.431	✓	10	1	1000	—
11	K2102811-005	USMPDI-069RAB-10-20-210312	.01	8151A/HERB	Soil	30.431	✓	10	1	1000	—
12	K2102811-006	USMPDI-069RAB-20-36.3-210312	.01	8151A/HERB	Soil	30.431	✓	10	1	1000	—
13	K2102811-002	USMPDI-068RAB-10-20-210311	.01	8151A/HERB	Soil	30.000	✓	10	1	1000	—
14	K2104449-03	LCS		8151A/HERB	Solid	32.188	✓	10	1	1000	—
15	K2104449-04	MB		8151A/HERB	Solid		✓	10	1	1000	—

* Instructed not to correct mistakes this way. - Jesse 03.30.21

Comments:

Surrogate ID: Pentao-2-16K Acetone 500µl 85/24/21
 Spike ID: Pentao-2-24H 5-500ppm 1000µL XP 09/04/21

Witnessed By: [Signature]
 Analyst: [Signature]
 Assisted By: [Signature]

Pre-Prep Information Benchsheet

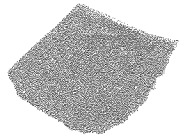
Prep Run #: 376223

Container Lot No: 890598

Prep Due Date: Mar-25-2021

#	Lab Code	Bottle	Test Name	Weight	Sample Comments	Test Comments
1	K2102811-001	.01	HERB : 8151A/	32.188g		JGRIMES k-balance-50
2	K2102811-002	.01	HERB : 8151A/	30.129g		JGRIMES k-balance-50
3	K2102811-002 MS KQ2104449-01	.01	HERB : 8151A/	30.250g		JGRIMES k-balance-50
4	K2102811-002 DMS KQ2104449-02	.01	HERB : 8151A/	30.511g		JGRIMES k-balance-50
5	K2102811-003	.01	HERB : 8151A/	30.690g		JGRIMES k-balance-50
6	K2102811-004	.01	HERB : 8151A/	30.699g		JGRIMES k-balance-50
7	K2102811-005	.01	HERB : 8151A/	30.841g		JGRIMES k-balance-50
8	K2102811-006	.01	HERB : 8151A/	30.437g		JGRIMES k-balance-50

Relinquished By: <i>GD</i>	Date/Time: 3/23/2021 11:44	Received By: <i>[Signature]</i>	Date/Time: 3/23/21 11:53 AM
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Additional Prep Information for EPA Method 8151A
Herbicides in Soil

Service Request # K2102809, 2811, 2868 Work Group # K2104449

Acidified Sulfate Lot # D20387P Matrix Sand Lot # 012418

Ethyl Ether Lot # D2804-US Hydrochloric Acid Lot # 20420a

Wrist Action Shaker Start (time/date/initial): 2130 3/24/21 CA

Wrist Action Shaker Stop (time/date/initial): 2200 3/24/21 CA

N-Evap (time/date/initial): 1145 3/26/21 CA N-Evap Thermometer ID: X Sym 004

Temp as measured: 20 °C Correction factor: 0.0 °C Adjusted temp: 20 °C

Saponification Start (time/date/initial): 1447 3/26/21 CA 37% KOH Lot # D203-80R

Saponification Stop (time/date/initial): 1547 3/26/21 CA

Extraction Start (time/date/initial): 1615 3/26/21 CA Sulfuric Acid Lot # D203-97I

Extraction Stop (time/date/initial): 1805 3/26/21 CA

Derivatization Start (time/date/initial): 1615 1625 3/29/21 CA Diazomethane Lot # D203-44A

Derivatization Stop (time/date/initial): 1655 3/29/21 CA

Pipette (5 mL) Lot # 08420647

Solvent Exchange to Iso-Octane (time/date/initial): 1650 3/29/21 CA

Iso-Octane Lot # D2155-US N-Evap Thermometer ID: X Sym 004

Temp as measured: 20 °C Correction factor: 0.0 °C Adjusted temp: 20 °C

Pipette (1 mL) Lot # HH136

Vial: Red Vial Storage: Slytherin A1-B5

Archive Storage: BUG LUNA

Additional Comments: _____

Bench Sheet Review Check List	
<input checked="" type="checkbox"/>	Hold times met (if no, reason: _____)
<input checked="" type="checkbox"/>	Prep date, time, method, department, product code correct in stealth
<input checked="" type="checkbox"/>	Spike information and Q.C. correct (insufficient volume or mass recorded if no Q.C.)
<input checked="" type="checkbox"/>	Weights/Volumes and units correct on raw and final bench sheets
<input checked="" type="checkbox"/>	Sample IDs have been checked - bottle numbers appended if required
<input checked="" type="checkbox"/>	Names present for: started by, completed by, relinquished by, and witnessed by. Training circled.
<input checked="" type="checkbox"/>	Extract storage recorded
<input checked="" type="checkbox"/>	Additional prep sheet completely filled out (NA or line out blanks)
<input checked="" type="checkbox"/>	All clean-ups have been noted on additional prep sheet
<input checked="" type="checkbox"/>	Signed service request with Form V, if applicable, has been attached

Validation Report

1st JTC 04/05/21
2nd SW 04/05/21

Data File: J:\GC34\DATA\033121\03310000040.D\
Lab ID: K2102809-001
RunType: N/A
Matrix: Soil

Date Acquired: 4/1/21 00:08:11
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/05/21
2nd *AW* 04/05/21

Data File: J:\GC34\DATA\033121\03310000040.D\	Instrument: K-GC-34
Acqu Date: 4/1/21 00:08:11	Vial: 15
Run Type: N/A	Dilution: 1
Lab ID: K2102809-001	Raw Units: ppb

Bottle ID: K2102809-001.01	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/17/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot: 376465	Report Group: K2102809
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 3/24/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	11.02	9.49 ^{+0.01}	69984549	26753580	67.927	71.437	68	71	68	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	13.33 ^{-0.02}	0.00	1278507	0	0.298	0.000	0.55U	0U	2.7 U	Y
2,4-D	12.31 ^{+0.03}	10.91 ^{-0.03}	2941871	1091584	3.008	1.477	5.5U	2.7U	8.5 U	Y

Prep Amount: 30.376 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 89.90

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 4/5/21 11:38

\\alprews001\starlims\LIMSReps\QuantValidation.rpt

Data File : J:\GC34\DATA\033121\03310000040.D Vial: 37
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01-Apr-2021, 00:08:11 Operator: JTC
 Sample : K2102809-001 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 11:23:33 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.020	9.487	69984549	26753580	67.927	71.437
Target Compounds						
1) m Dalapon	5.657f	0.000	1290313	0	1.319	N.D. #
3) m Dicamba	0.000	9.640f	0	1522834	N.D.	1.268 #
4) m MCPP	11.317	10.033	70103	364884	15.406	424861.963 #
5) m MCPA	11.567	10.337	5367468	424190	786.110	120.446 #
6) m Dichloroprop	11.957f	10.737	8050122	230819	8.461	0.663 #
7) m 2,4-D	12.313	10.907f	2941871	1091584	3.008	1.477 #
8) m 2,4,5-TP ...	13.330	0.000	1278507	0	0.298	N.D. #
9) m 2,4,5-T	0.000	12.020f	0	1943500	N.D.	1.688 #
10) m 2,4-DB	14.303	12.563	2099814	611942	4.811	4.095 #
11) m Dinoseb	14.510	12.433	3786487	164967	1.463	0.179 #

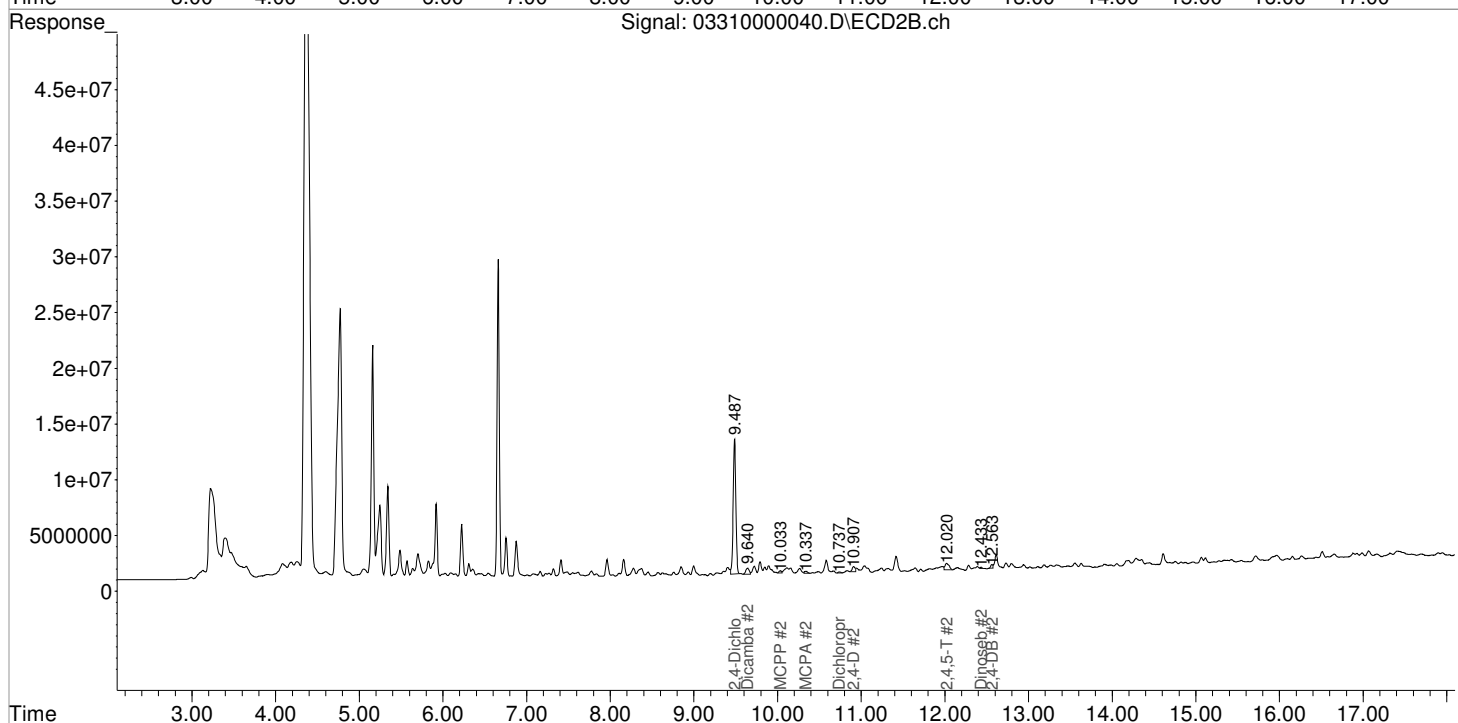
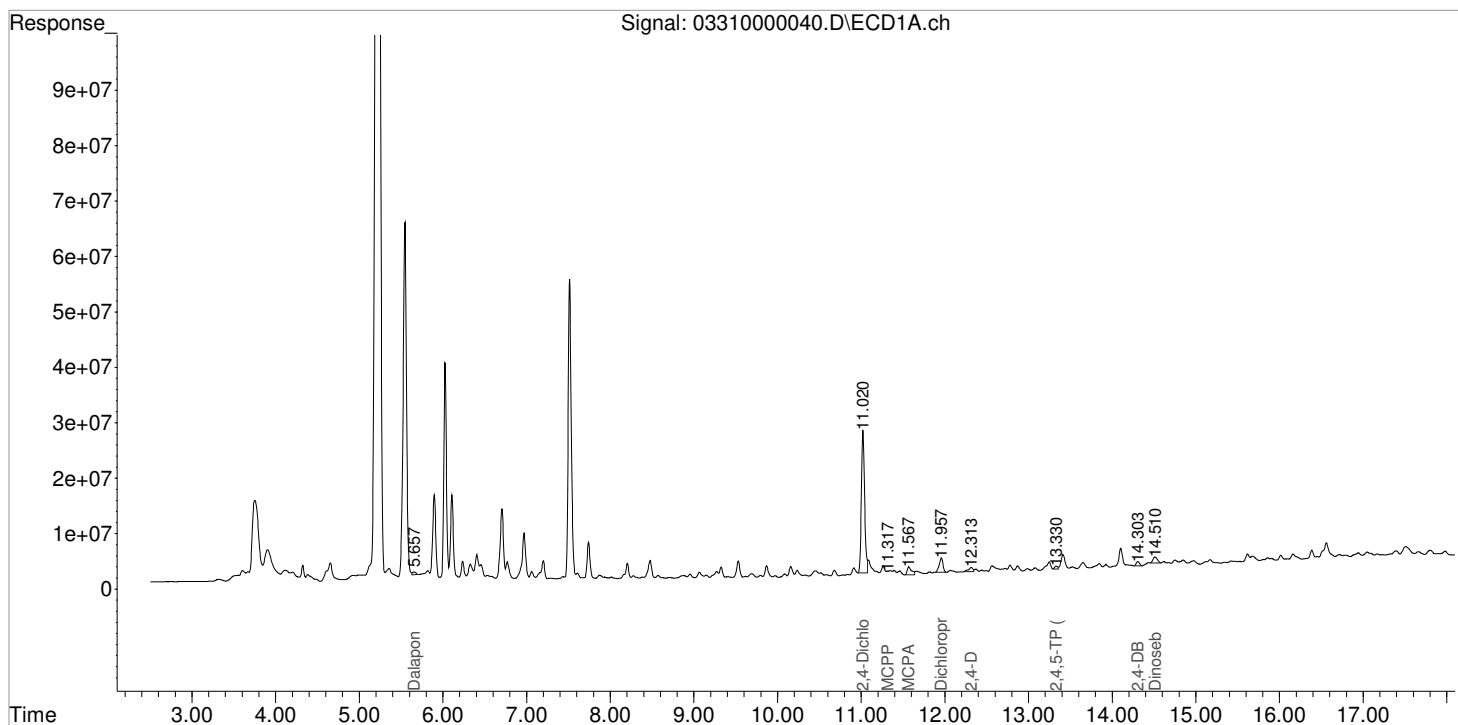
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\03310000040.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01-Apr-2021, 00:08:11
 Sample : K2102809-001
 Misc :
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 11:23:33 2021
 Quant Results File: 031721_8151.RES

Vial: 37
 Operator: JTC
 Inst : GCI
 Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/05/21
2nd SW 04/05/21

Data File: J:\GC34\DATA\033121\03310000041.D\
Lab ID: K2102809-002
RunType: N/A
Matrix: Soil

Date Acquired: 4/1/21 00:32:29
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/05/21
2nd *SW* 04/05/21

Data File: J:\GC34\DATA\033121\03310000041.D\	Instrument: K-GC-34
Acqu Date: 4/1/21 00:32:29	Vial: 16
Run Type: N/A	Dilution: 1
Lab ID: K2102809-002	Raw Units: ppb

Bottle ID: K2102809-002.01	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/17/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot: 376465	Report Group: K2102809
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 3/24/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	11.02	9.48	78637208	27207431	76.325	72.649	76	73	73	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	13.34 ^{-0.01}	0.00	1739786	0	0.406	0.000	0.80U	0U	2.9 U	Y
2,4-D	12.27 ^{-0.01}	10.92 ^{-0.02}	1353036	1827722	1.384	2.472	2.7U	4.8U	9.1 U	Y

Prep Amount: 30.279 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 84.20

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 4/5/21 11:38

\\alprews001\starlims\LIMSReps\QuantValidation.rpt

Data File : J:\GC34\DATA\033121\03310000041.D Vial: 38
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01-Apr-2021, 00:32:29 Operator: JTC
 Sample : K2102809-002 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 11:23:36 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.020	9.483	78637208	27207431	76.325	72.649
Target Compounds						
1) m Dalapon	5.653f	0.000	2742645	0	2.804	N.D. #
3) m Dicamba	0.000	9.633f	0	897073	N.D.	0.747 #
4) m MCPP	11.267f	0.000	2135002	0	469.185	N.D. #
5) m MCPA	11.567	10.263f	4394240	779234	643.573	221.258 #
6) m Dichloroprop	11.950f	10.820f	1552369	366827	1.632	1.054 #
7) m 2,4-D	12.270	10.920	1353036	1827722	1.384	2.472 #
8) m 2,4,5-TP ...	13.337	0.000	1739786	0	0.406	N.D. #
9) m 2,4,5-T	0.000	12.040	0	598966	N.D.	0.520 #
10) m 2,4-DB	0.000	12.563	0	634201	N.D.	4.243 #
11) m Dinoseb	14.493	12.390f	3571893	704296	1.380	0.763 #

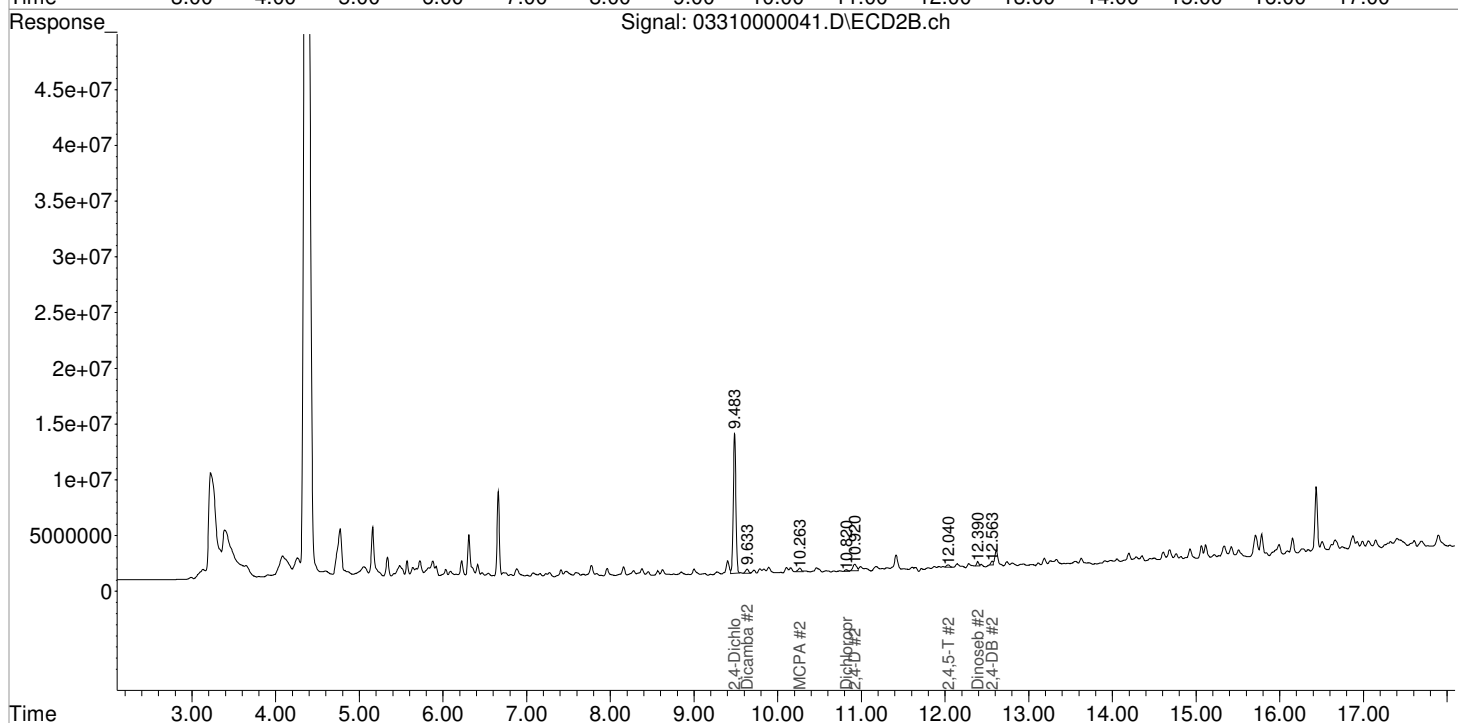
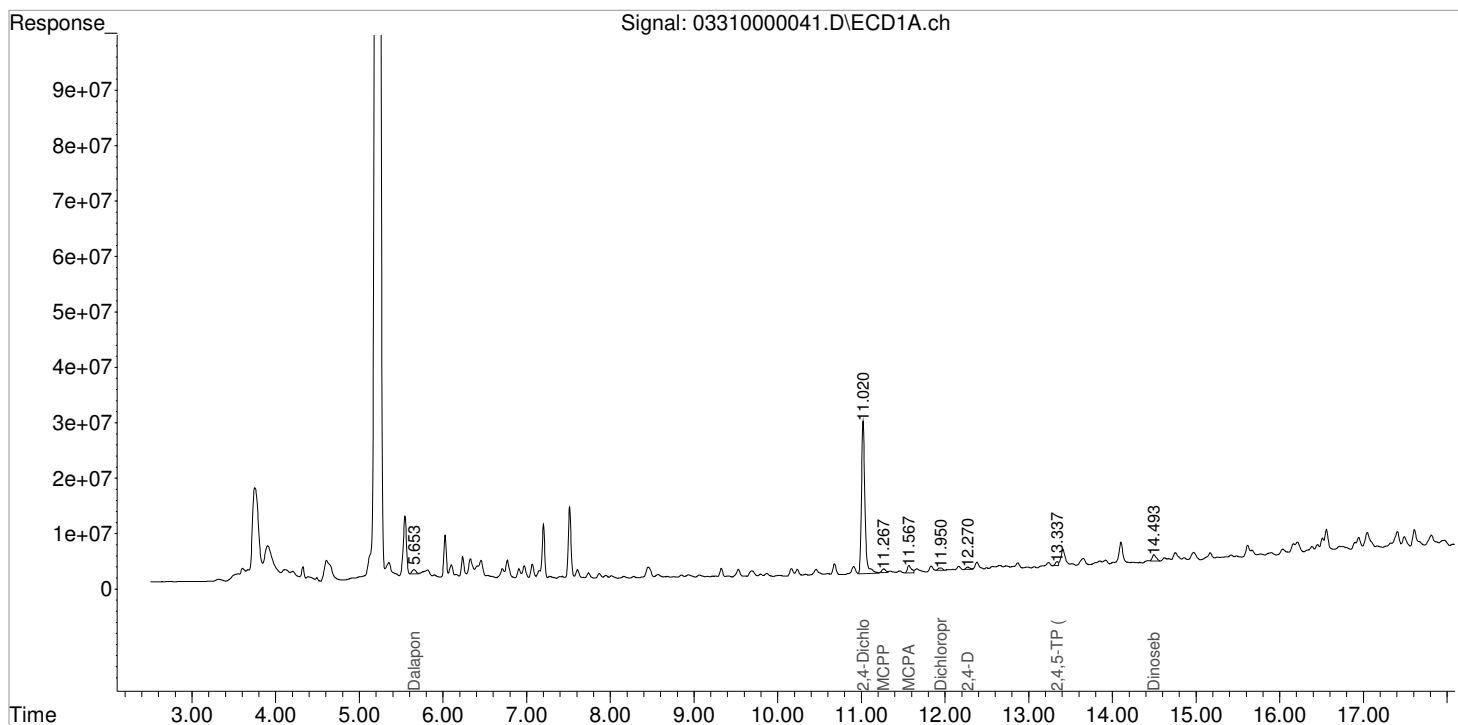
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\0331000041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01-Apr-2021, 00:32:29
Sample : K2102809-002
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 11:23:36 2021
Quant Results File: 031721_8151.RES

Vial: 38
Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/05/21
2nd SW 04/05/21

Data File: J:\GC34\DATA\033121\03310000042.D\
Lab ID: K2102809-003
RunType: N/A
Matrix: Soil

Date Acquired: 4/1/21 00:56:58
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/05/21
2nd *SW* 04/05/21

Data File: J:\GC34\DATA\033121\03310000042.D\	Instrument: K-GC-34
Acqu Date: 4/1/21 00:56:58	Vial: 17
Run Type: N/A	Dilution: 1
Lab ID: K2102809-003	Raw Units: ppb

Bottle ID: K2102809-003.01	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/17/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot: 376465	Report Group: K2102809
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 3/24/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	11.02	9.48	74581650	26752280	72.389	71.433	72	71	71	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	13.33 ^{-0.02}	0.00	1134006	0	0.264	0.000	0.63U	0U	3.5 U	Y
2,4-D	12.27 ^{-0.01}	10.93 ^{-0.01}	358763	1818313	0.367	2.460	0.87U	5.8U	11 U	Y

Prep Amount: 30.232 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 69.60

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File : J:\GC34\DATA\033121\03310000042.D Vial: 39
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01-Apr-2021, 00:56:58 Operator: JTC
 Sample : K2102809-003 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 11:23:39 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.020	9.483	74581650	26752280	72.389	71.433
Target Compounds						
1) m Dalapon	5.680	4.830	2566738	1850563	2.624	3.899 #
3) m Dicamba	0.000	9.637f	0	633357	N.D.	0.527 #
4) m MCPP	11.267f	0.000	2623308	0	576.494	N.D. #
5) m MCPA	11.567	10.263f	2741919	1012583	401.577	287.516 #
6) m Dichloroprop	0.000	10.727f	0	389517	N.D.	1.119 #
7) m 2,4-D	12.270	10.933	358763	1818313	0.367	2.460 #
8) m 2,4,5-TP ...	13.333	0.000	1134006	0	0.264	N.D. #
9) m 2,4,5-T	0.000	12.047	0	717372	N.D.	0.623 #
10) m 2,4-DB	0.000	12.527f	0	183249	N.D.	1.226 #
11) m Dinoseb	14.493	12.433	6716264	490975	2.595	0.532 #

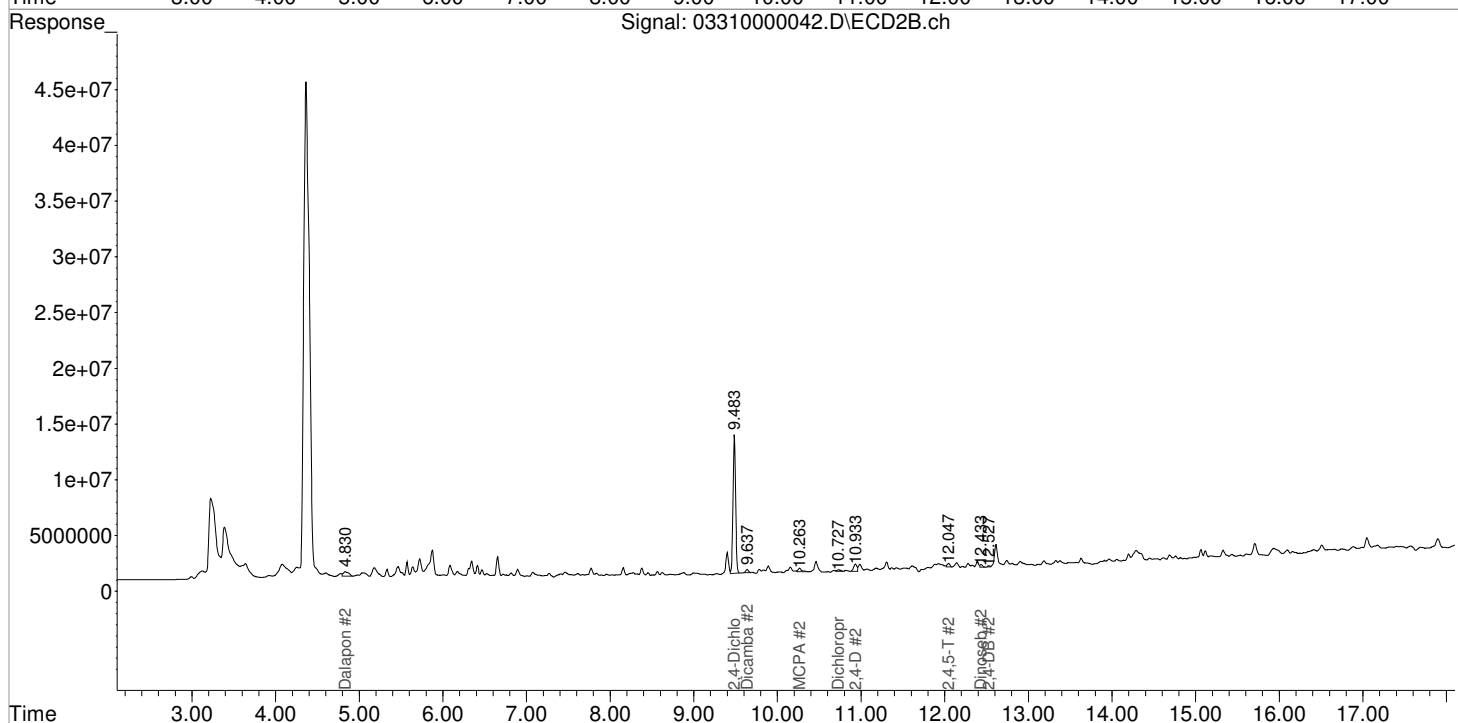
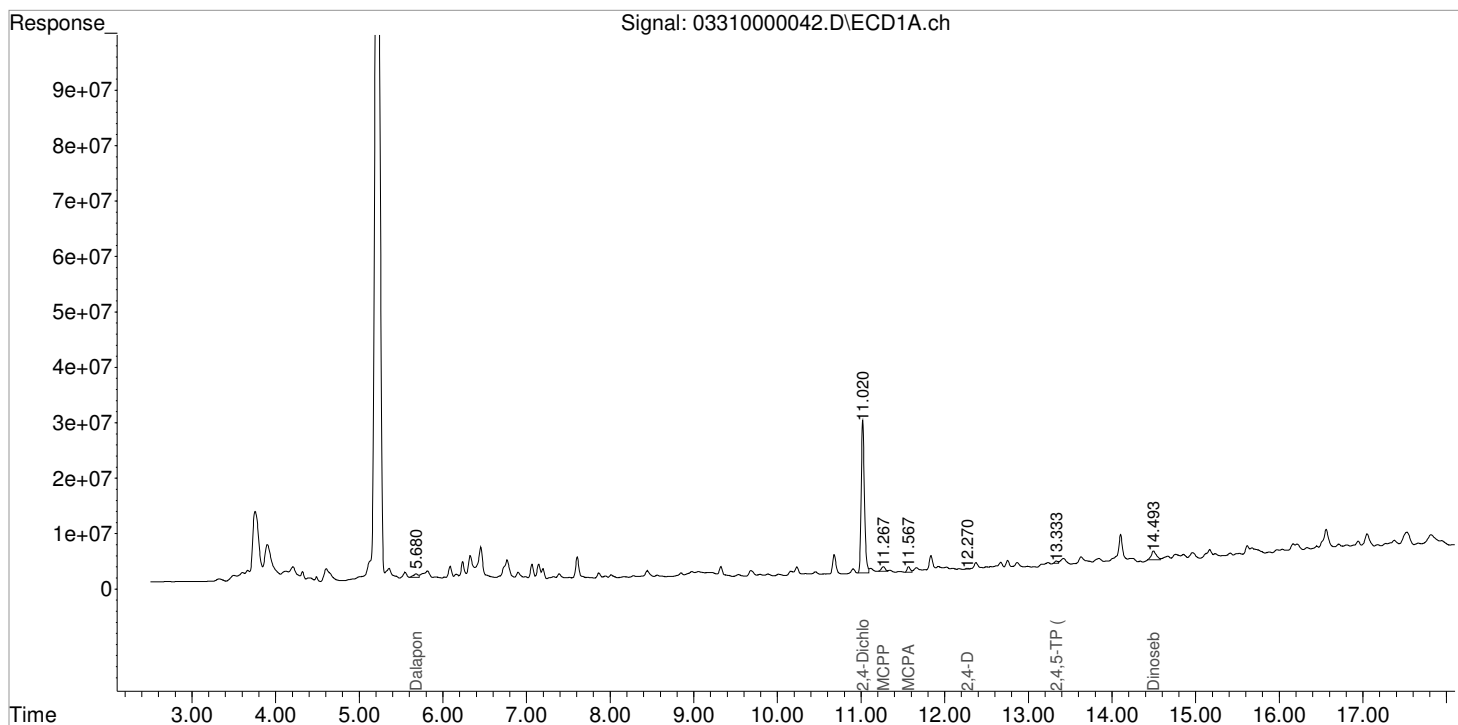
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\03310000042.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01-Apr-2021, 00:56:58
 Sample : K2102809-003
 Misc :
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 11:23:39 2021
 Quant Results File: 031721_8151.RES

Vial: 39
 Operator: JTC
 Inst : GCI
 Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/05/21
2nd SW 04/05/21

Data File: J:\GC34\DATA\033121\03310000043.D\
Lab ID: K2102809-004
RunType: N/A
Matrix: Soil

Date Acquired: 4/1/21 01:21:13
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/05/21
2nd *SW* 04/05/21

Data File: J:\GC34\DATA\033121\03310000043.D\	Instrument: K-GC-34
Acqu Date: 4/1/21 01:21:13	Vial: 18
Run Type: N/A	Dilution: 1
Lab ID: K2102809-004	Raw Units: ppb

Bottle ID: K2102809-004.01	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/18/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot: 376465	Report Group: K2102809
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 3/24/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	11.02	9.48	74225197	26026186	72.043	69.495	72	69	69	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	13.34 ^{-0.01}	0.00	1332598	0	0.311	0.000	0.58U	0U	2.7 U	Y
2,4-D	12.27 ^{-0.01}	10.92 ^{-0.02}	1722941	1035982	1.762	1.401	3.3U	2.6U	8.7 U	Y

Prep Amount: 30.212 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 88.80

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File : J:\GC34\DATA\033121\03310000043.D Vial: 40
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01-Apr-2021, 01:21:13 Operator: JTC
 Sample : K2102809-004 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 11:23:42 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.020	9.483	74225197	26026186	72.043	69.495
Target Compounds						
1) m Dalapon	5.673	0.000	881730	0	0.902	N.D. #
3) m Dicamba	0.000	9.630f	0	1186744	N.D.	0.988 #
4) m MCPP	11.260f	0.000	1358577	0	298.559	N.D. #
5) m MCPA	11.567	10.263f	4692095	711544	687.196	202.038 #
6) m Dichloroprop	11.933f	0.000	2632102	0	2.766	N.D. #
7) m 2,4-D	12.267	10.920	1722941	1035982	1.762	1.401
8) m 2,4,5-TP ...	13.337	0.000	1332598	0	0.311	N.D. #
9) m 2,4,5-T	0.000	0.000	0	0	N.D.	N.D.
10) m 2,4-DB	14.303	12.563	861802	300541	1.975	2.011
11) m Dinoseb	14.503	12.387f	5051724	432503	1.952	0.469 #

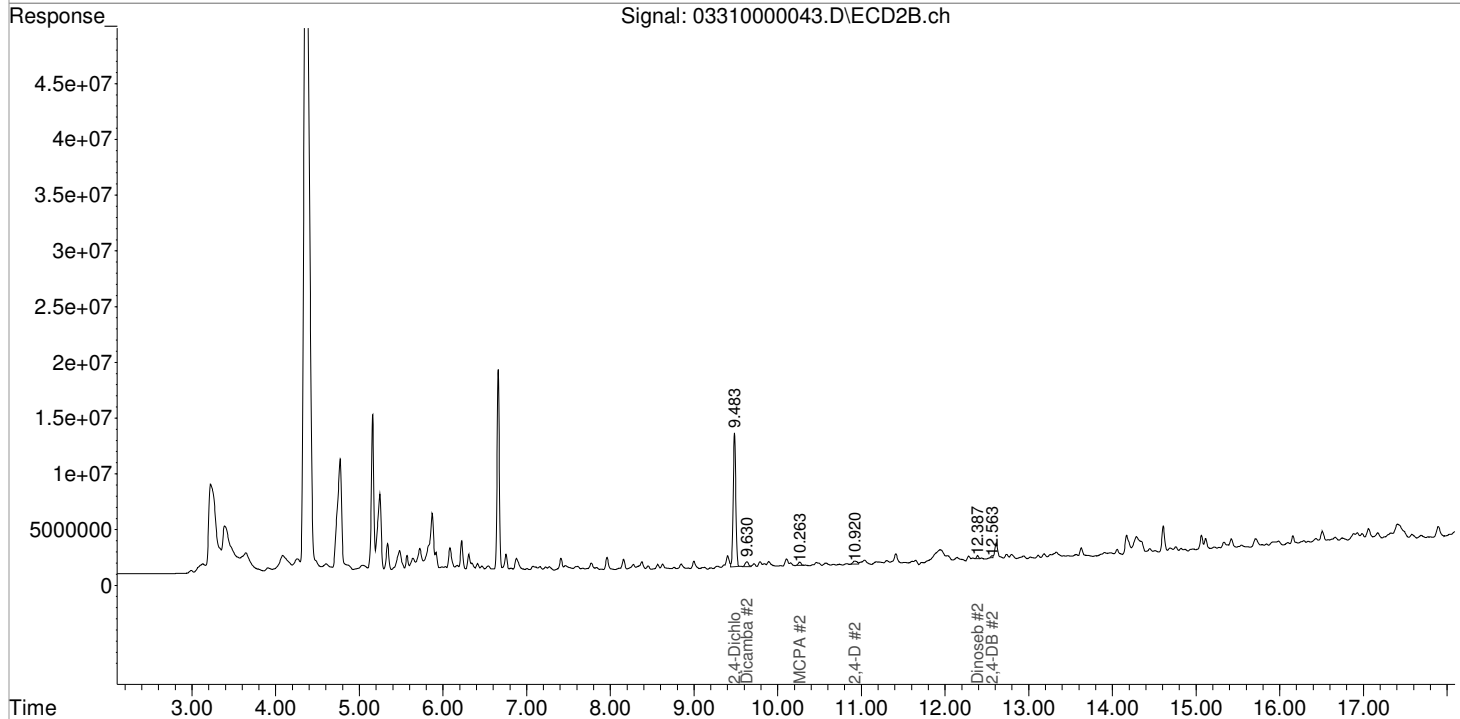
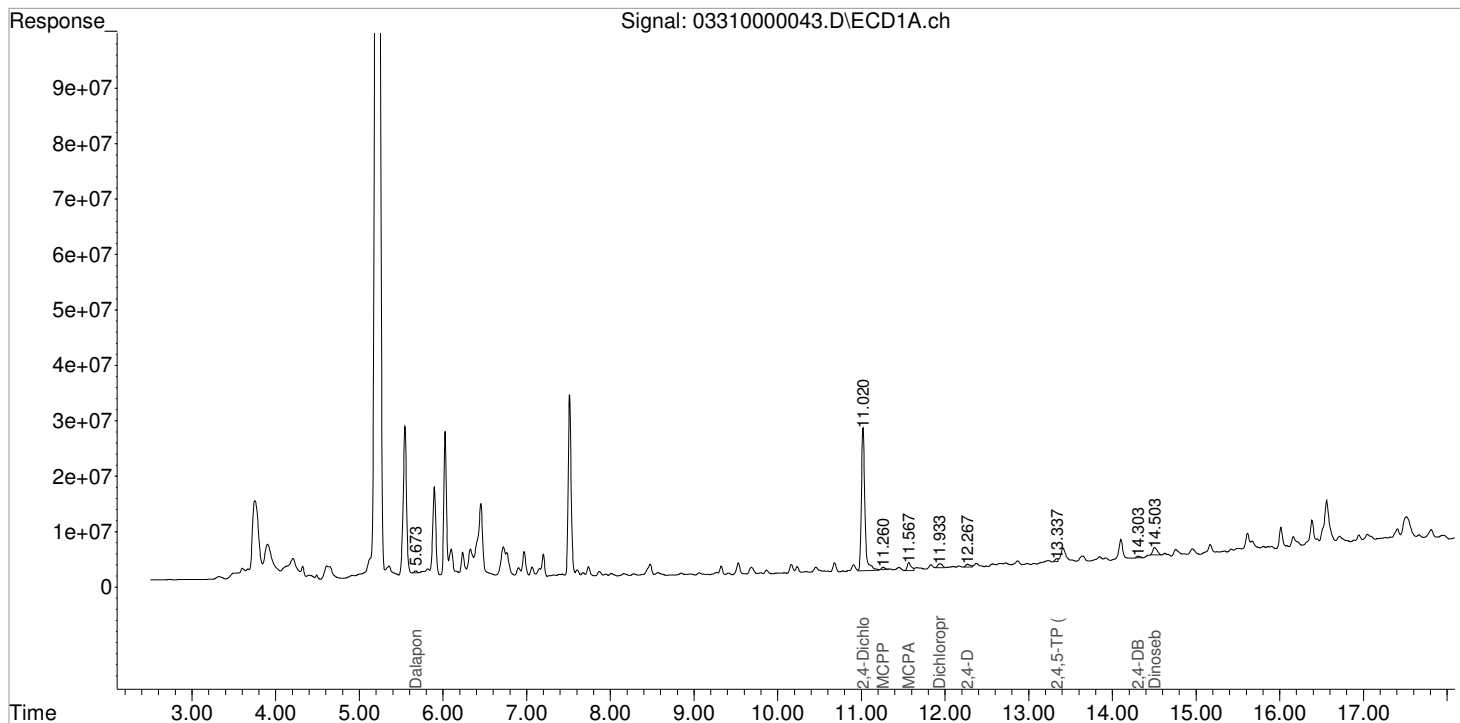
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\03310000043.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01-Apr-2021, 01:21:13
Sample : K2102809-004
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 11:23:42 2021
Quant Results File: 031721_8151.RES

Vial: 40
Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/05/21
2nd SW 04/05/21

Data File: J:\GC34\DATA\033121\03310000044.D\
Lab ID: K2102809-005
RunType: N/A
Matrix: Soil

Date Acquired: 4/1/21 01:45:37
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/05/21
2nd *SW* 04/05/21

Data File: J:\GC34\DATA\033121\03310000044.D\	Instrument: K-GC-34
Acqu Date: 4/1/21 01:45:37	Vial: 19
Run Type: N/A	Dilution: 1
Lab ID: K2102809-005	Raw Units: ppb

Bottle ID: K2102809-005.01	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/18/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot: 376465	Report Group: K2102809
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 3/24/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	11.02	9.48	71330347	26013910	69.233	69.462	69	69	69	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	13.33 ^{-0.02}	11.51	1647063	305185	0.384	0.209	0.78U	0.43U	3.0 U	Y
2,4-D	12.26 ^{-0.02}	0.00	1315479	0	1.345	0.000	2.7U	0U	9.5 U	Y

Prep Amount: 30.242 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 81.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File : J:\GC34\DATA\033121\03310000044.D Vial: 41
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01-Apr-2021, 01:45:37 Operator: JTC
 Sample : K2102809-005 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 11:23:45 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.020	9.483	71330347	26013910	69.233	69.462
Target Compounds						
1) m Dalapon	5.687	0.000	1006280	0	1.029	N.D. #
3) m Dicamba	11.183	9.637f	2206851	2081472	0.671	1.733 #
4) m MCPP	11.260f	10.030	5470437	141012	1202.174	424967.324 #
5) m MCPA	11.567	10.263f	8164510	1096798	1195.760	311.428 #
6) m Dichloroprop	11.953f	10.737	8460348	157628	8.892	0.453 #
7) m 2,4-D	12.257f	0.000	1315479	0	1.345	N.D. #
8) m 2,4,5-TP ...	13.327	11.513	1647063	305185	0.384	0.209 #
9) m 2,4,5-T	0.000	12.017f	0	1800009	N.D.	1.563 #
10) m 2,4-DB	14.307	12.563	2976947	883836	6.821	5.914 #
11) m Dinoseb	14.500	0.000	7584446	0	2.931	N.D. #

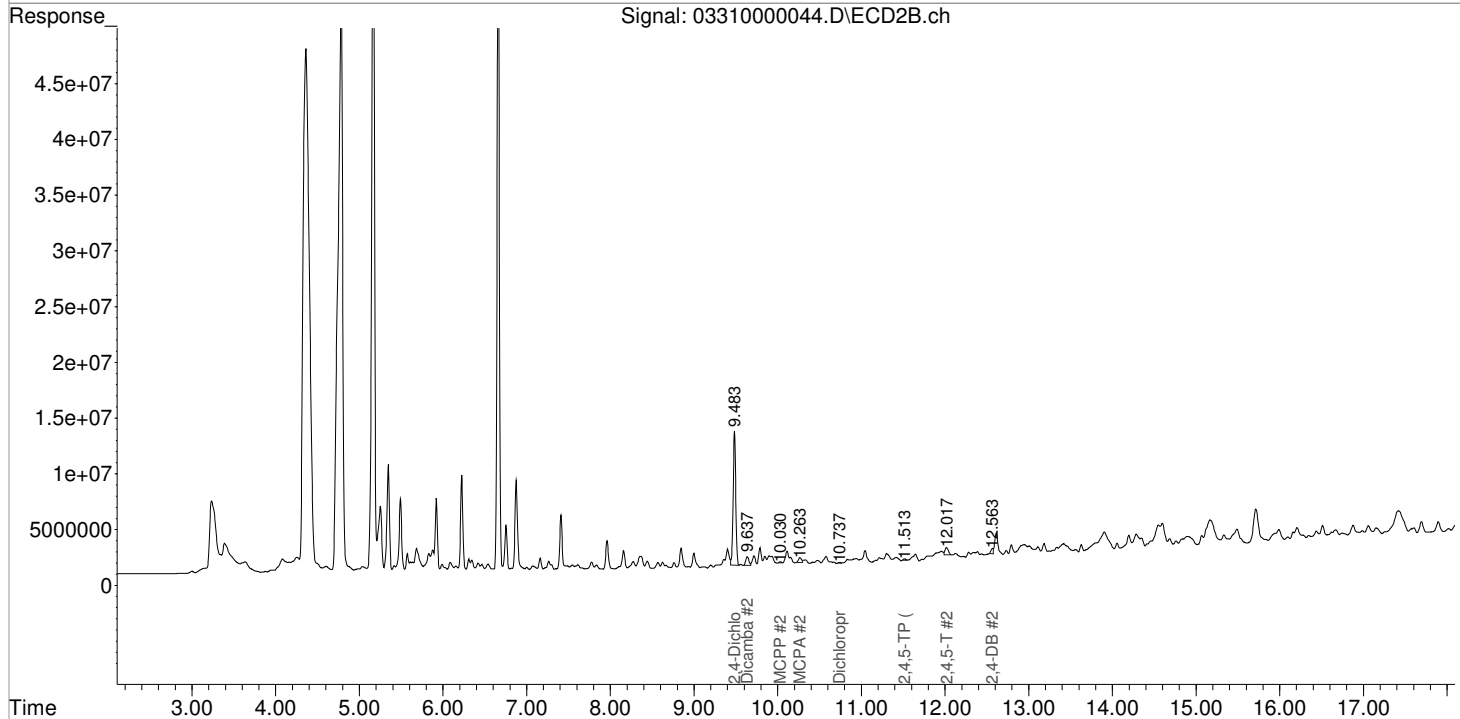
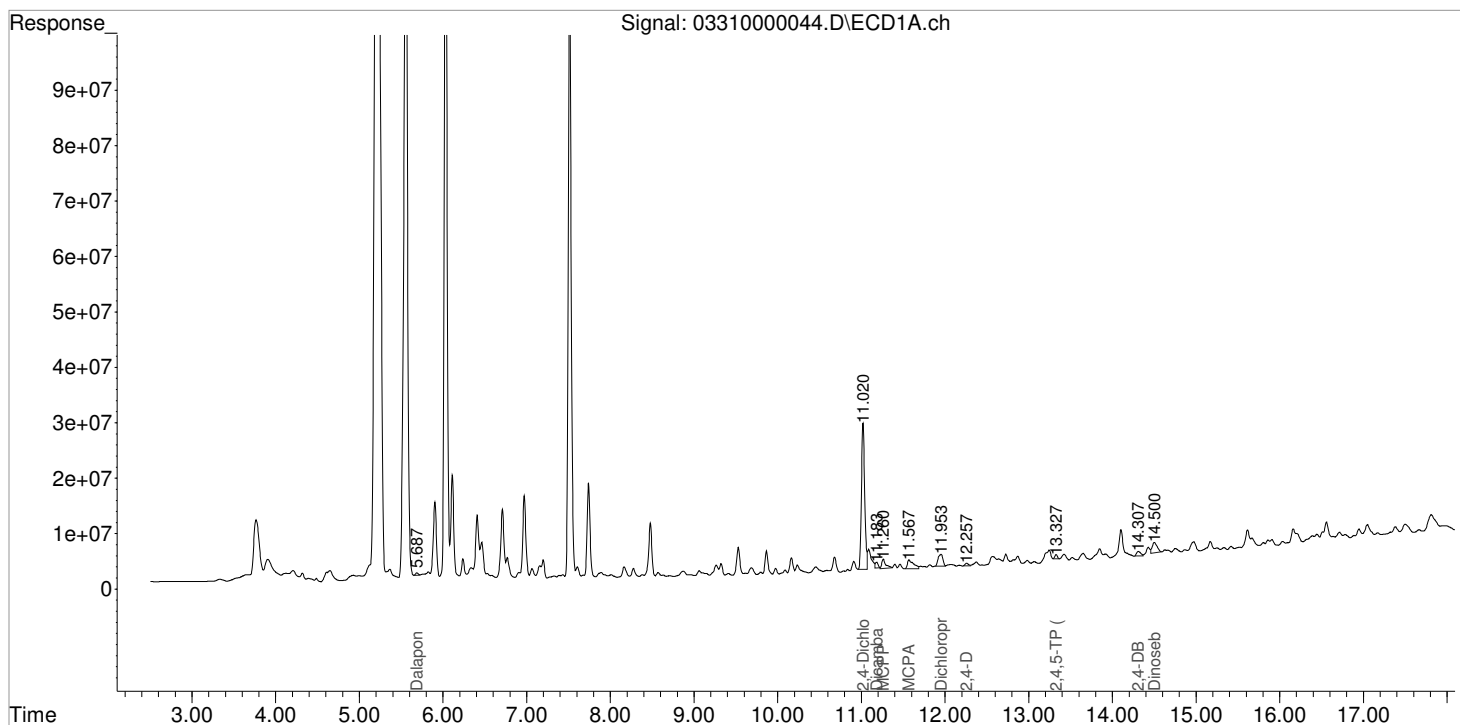
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\03310000044.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01-Apr-2021, 01:45:37
Sample : K2102809-005
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 11:23:45 2021
Quant Results File: 031721_8151.RES

Vial: 41
Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/05/21
2nd SW 04/05/21

Data File: J:\GC34\DATA\033121\03310000045.D\
Lab ID: K2102809-006
RunType: N/A
Matrix: Soil

Date Acquired: 4/1/21 02:09:52
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/05/21
2nd *SW* 04/05/21

Data File: J:\GC34\DATA\033121\03310000045.D\	Instrument: K-GC-34
Acqu Date: 4/1/21 02:09:52	Vial: 20
Run Type: N/A	Dilution: 1
Lab ID: K2102809-006	Raw Units: ppb

Bottle ID: K2102809-006.01	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/18/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot: 376465	Report Group: K2102809
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 3/24/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	11.02	9.48	85791460	29348067	83.269	78.365	83	78	78	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	13.33 ^{-0.02}	11.51	1562084	197064	0.364	0.135	0.74U	0.27U	3.0 U	Y
2,4-D	0.00	10.92 ^{-0.02}	0	2234521	0.000	3.023	0U	6.1U	9.4 U	Y

Prep Amount: 30.368 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 81.30

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\GC34\DATA\033121\03310000045.D Vial: 42
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01-Apr-2021, 02:09:52 Operator: JTC
 Sample : K2102809-006 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 11:23:48 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.020	9.483	85791460	29348067	83.269	78.365
Target Compounds						
1) m Dalapon	5.670	0.000	2073426	0	2.120	N.D. #
3) m Dicamba	11.183	9.637f	1256688	1328836	0.382	1.107 #
4) m MCPP	11.350f	0.000	3132656	0	688.427	N.D. #
5) m MCPA	11.567	10.263f	3341653	562429	489.413	159.698 #
6) m Dichloroprop	12.000	10.817f	3758453	209017	3.950	0.600 #
7) m 2,4-D	0.000	10.917f	0	2234521	N.D.	3.023 #
8) m 2,4,5-TP ...	13.333	11.513	1562084	197064	0.364	0.135 #
9) m 2,4,5-T	0.000	0.000	0	0	N.D.	N.D.
10) m 2,4-DB	14.330	12.610f	7005507	9140898	16.052	61.162 #
11) m Dinoseb	14.520f	12.433	9538415	998727	3.686	1.082 #

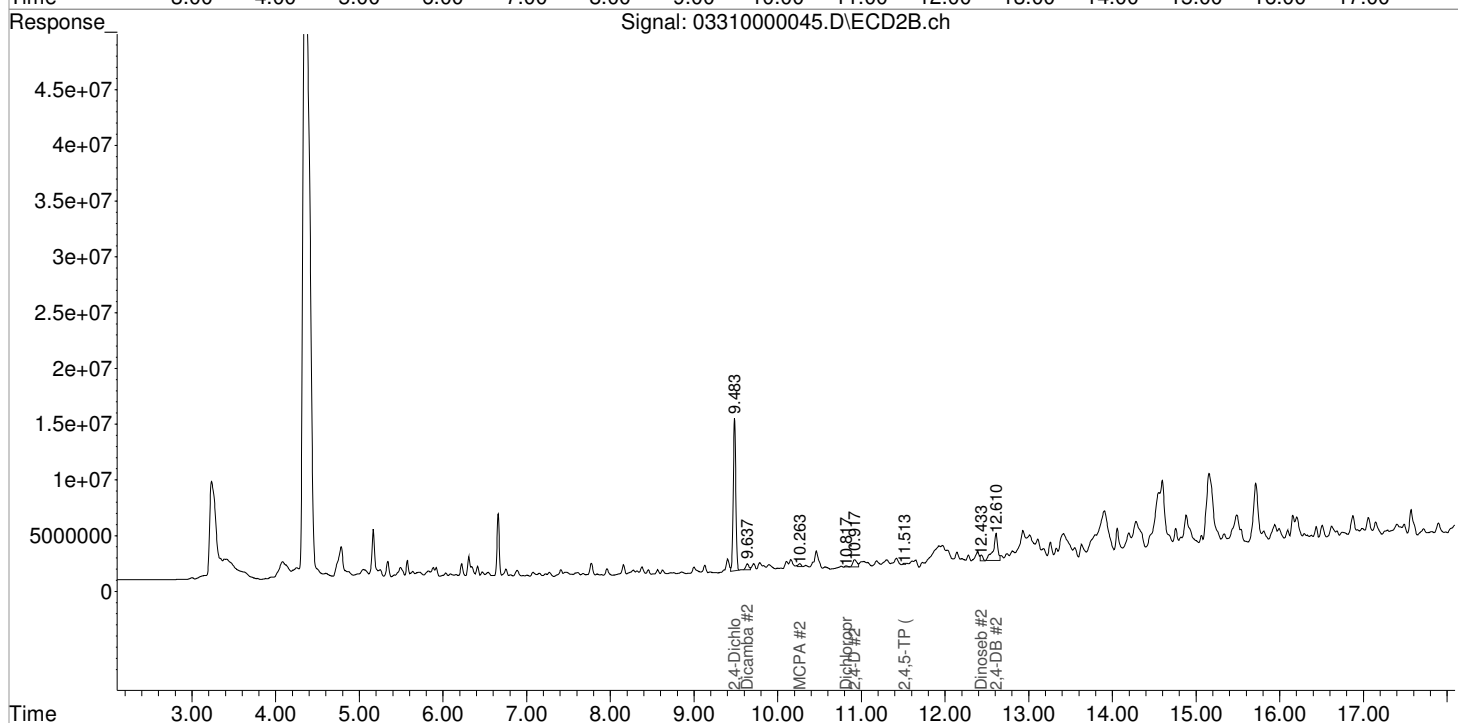
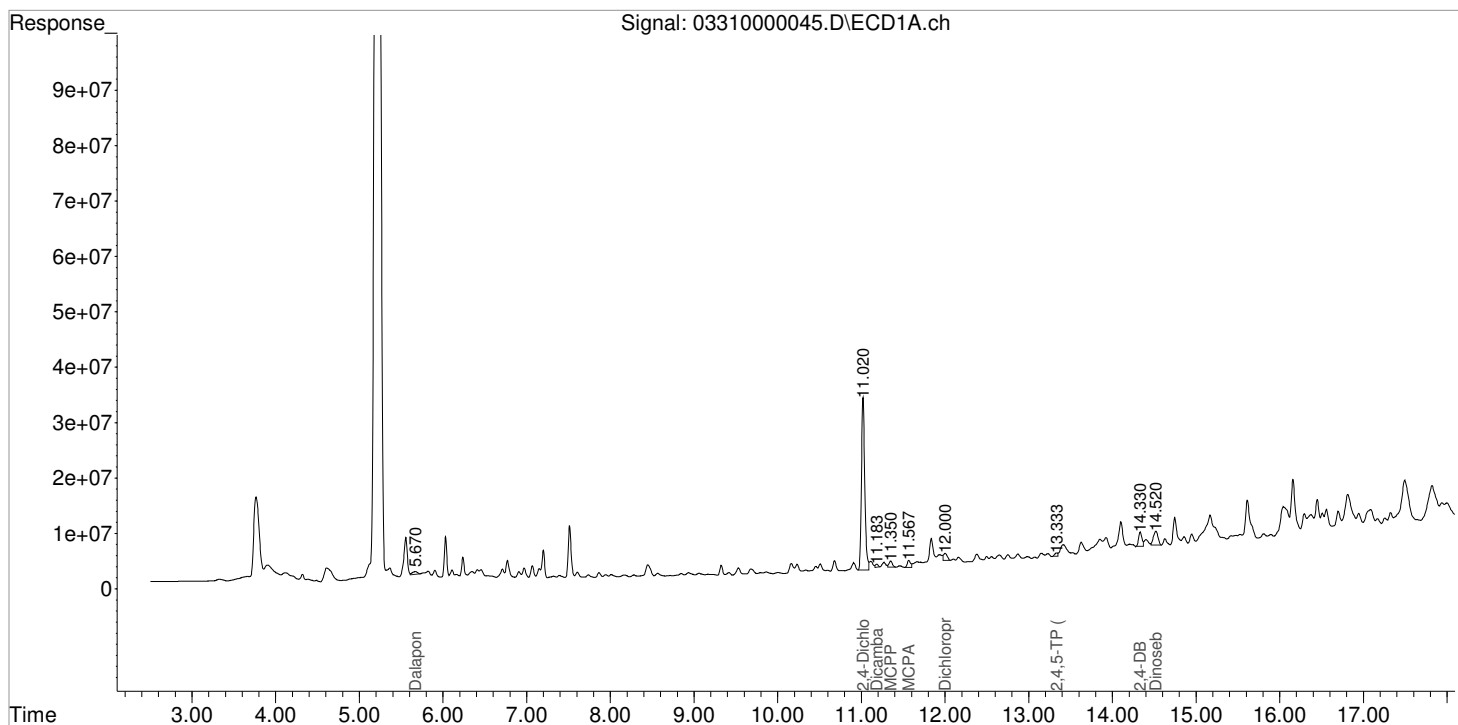
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\03310000045.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01-Apr-2021, 02:09:52
 Sample : K2102809-006
 Misc :
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 11:23:48 2021
 Quant Results File: 031721_8151.RES

Vial: 42
 Operator: JTC
 Inst : GCI
 Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/05/21
2nd SW 04/05/21

Data File: J:\GC34\DATA\033121\03310000046.D\
Lab ID: K2102809-007
RunType: N/A
Matrix: Soil

Date Acquired: 4/1/21 02:34:13
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/05/21
2nd *SW* 04/05/21

Data File: J:\GC34\DATA\033121\03310000046.D\	Instrument: K-GC-34
Acqu Date: 4/1/21 02:34:13	Vial: 21
Run Type: N/A	Dilution: 1
Lab ID: K2102809-007	Raw Units: ppb

Bottle ID: K2102809-007.01	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/17/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot: 376465	Report Group: K2102809
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 3/24/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	11.02	9.48	70079086	25655488	68.018	68.505	68	69	68	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	13.33 ^{-0.02}	0.00	1539746	0	0.359	0.000	0.67U	0U	2.8 U	Y
2,4-D	0.00	10.94	0	996913	0.000	1.349	0U	2.5U	8.7 U	Y

Prep Amount: 30.276 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 88.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\GC34\DATA\033121\03310000046.D Vial: 43
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01-Apr-2021, 02:34:13 Operator: JTC
 Sample : K2102809-007 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 11:23:51 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.020	9.483	70079086	25655488	68.018	68.505
Target Compounds						
1) m Dalapon	5.687	0.000	875768	0	0.895	N.D. #
3) m Dicamba	0.000	9.637f	0	1728606	N.D.	1.440 #
4) m MCPP	11.260f	10.030	3408411	876995	749.027	424620.753 #
5) m MCPA	11.567	10.333	7776648	399924	1138.954	113.556 #
6) m Dichloroprop	11.950f	0.000	34938736	0	36.722	N.D. #
7) m 2,4-D	0.000	10.940	0	996913	N.D.	1.349 #
8) m 2,4,5-TP ...	13.327	0.000	1539746	0	0.359	N.D. #
9) m 2,4,5-T	0.000	12.017f	0	1516344	N.D.	1.317 #
10) m 2,4-DB	0.000	12.567	0	612204	N.D.	4.096 #
11) m Dinoseb	14.500	12.390f	9994459	410850	3.862	0.445 #

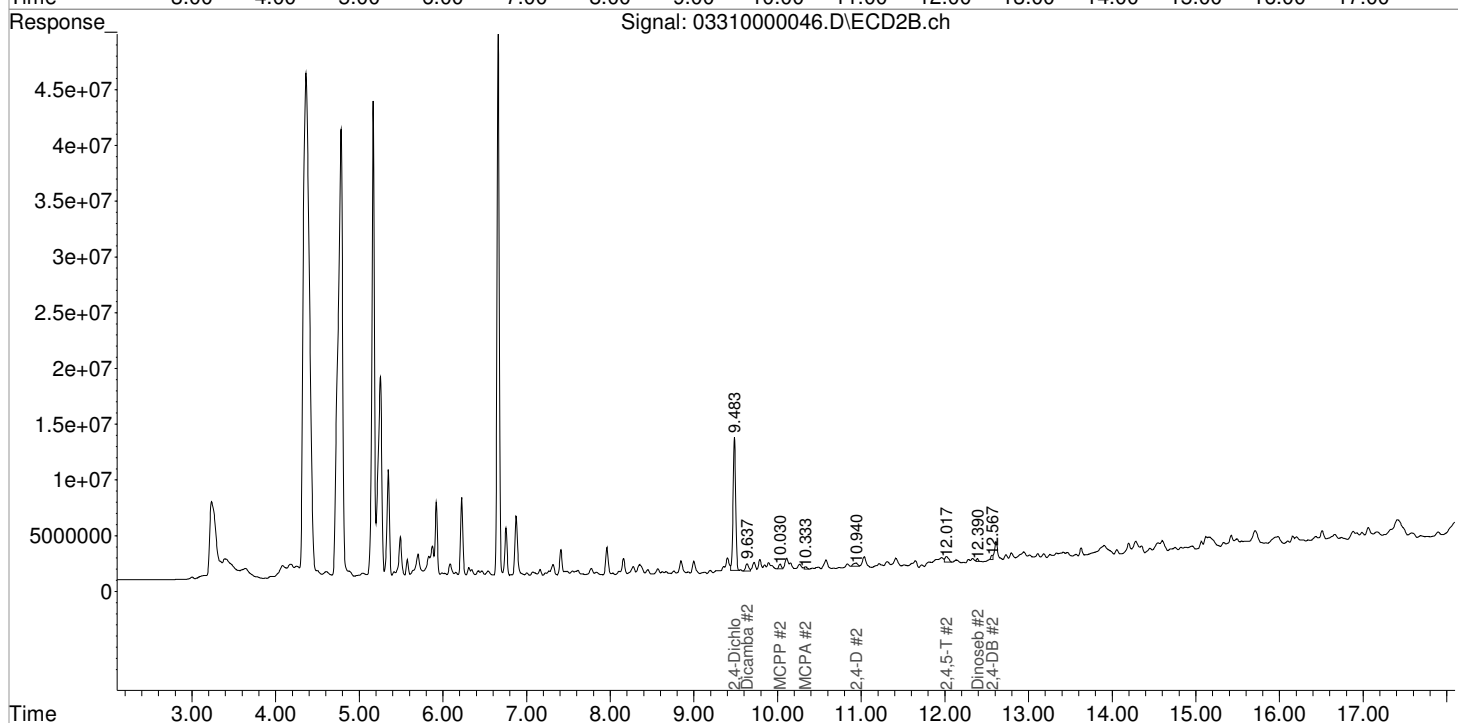
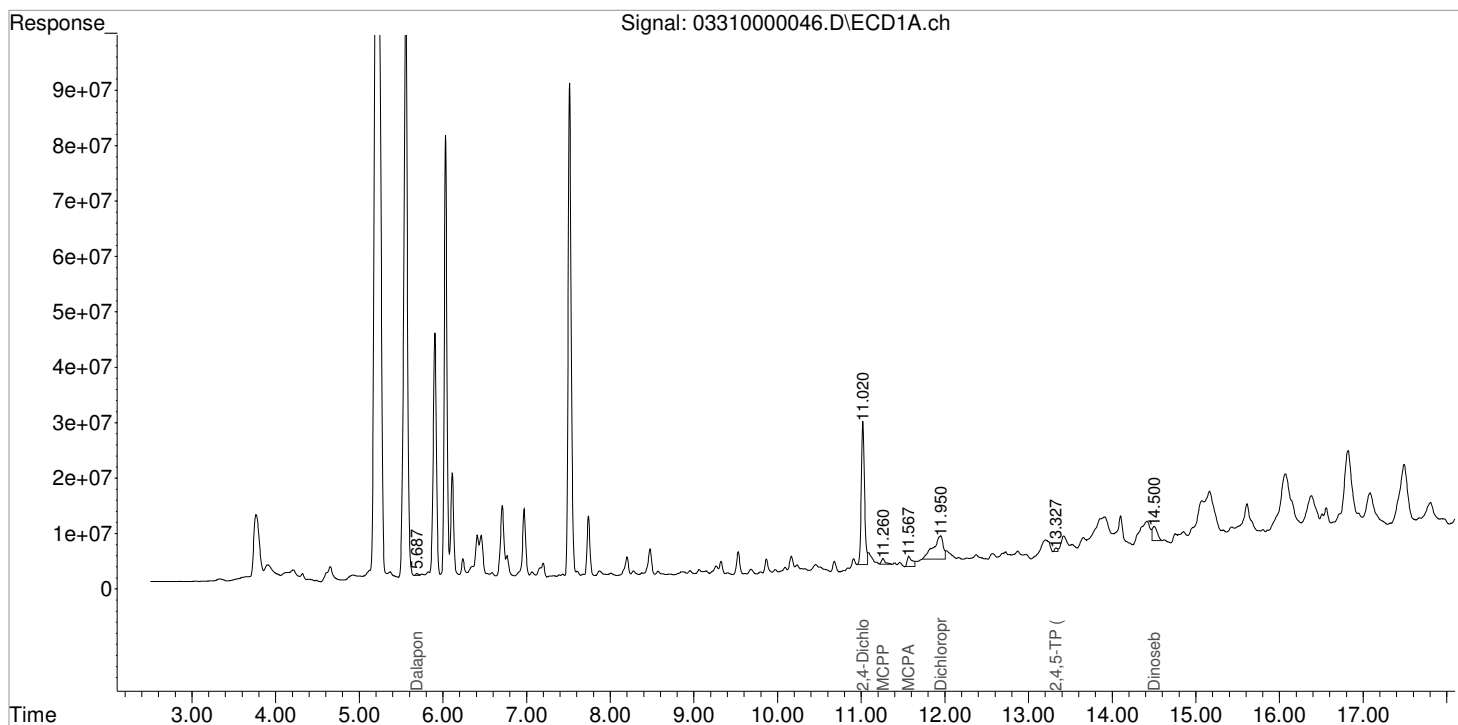
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\03310000046.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01-Apr-2021, 02:34:13
Sample : K2102809-007
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 11:23:51 2021
Quant Results File: 031721_8151.RES

Vial: 43
Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/05/21
2nd SW 04/05/21

Data File: J:\GC34\DATA\033121\03310000047.D\
Lab ID: K2102809-008
RunType: N/A
Matrix: Soil

Date Acquired: 4/1/21 02:58:08
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/05/21
2nd *SW* 04/05/21

Data File: J:\GC34\DATA\033121\03310000047.D\	Instrument: K-GC-34
Acqu Date: 4/1/21 02:58:08	Vial: 22
Run Type: N/A	Dilution: 1
Lab ID: K2102809-008	Raw Units: ppb

Bottle ID: K2102809-008.01	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/17/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot: 376465	Report Group: K2102809
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 3/24/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	11.02	9.48	71619253	25565304	69.513	68.264	70	68	68	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	0.00	0.00	0	0	0.000	0.000	0U	0U	2.9 U	Y
2,4-D	0.00	10.92 ^{-0.02}	0	813262	0.000	1.100	0U	2.2U	9.2 U	Y

Prep Amount: 30.528 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 82.60

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 4/5/21 11:38

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Data File : J:\GC34\DATA\033121\03310000047.D Vial: 44
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01-Apr-2021, 02:58:08 Operator: JTC
 Sample : K2102809-008 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 11:23:54 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.020	9.483	71619253	25565304	69.513	68.264
Target Compounds						
1) m Dalapon	5.680	0.000	2802869	0	2.866	N.D. #
3) m Dicamba	0.000	9.637f	0	423591	N.D.	0.353 #
4) m MCPP	11.260f	0.000	661477	0	145.365	N.D. #
5) m MCPA	11.567	10.263f	4123809	723401	603.966	205.405 #
6) m Dichloroprop	0.000	0.000	0	0	N.D.	N.D.
7) m 2,4-D	0.000	10.923	0	813262	N.D.	1.100 #
8) m 2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.
9) m 2,4,5-T	0.000	12.047	0	343766	N.D.	0.299 #
10) m 2,4-DB	14.340	12.610f	2280336	3537069	5.225	23.667 #
11) m Dinoseb	14.497	12.390f	2819941	624093	1.090	0.676 #

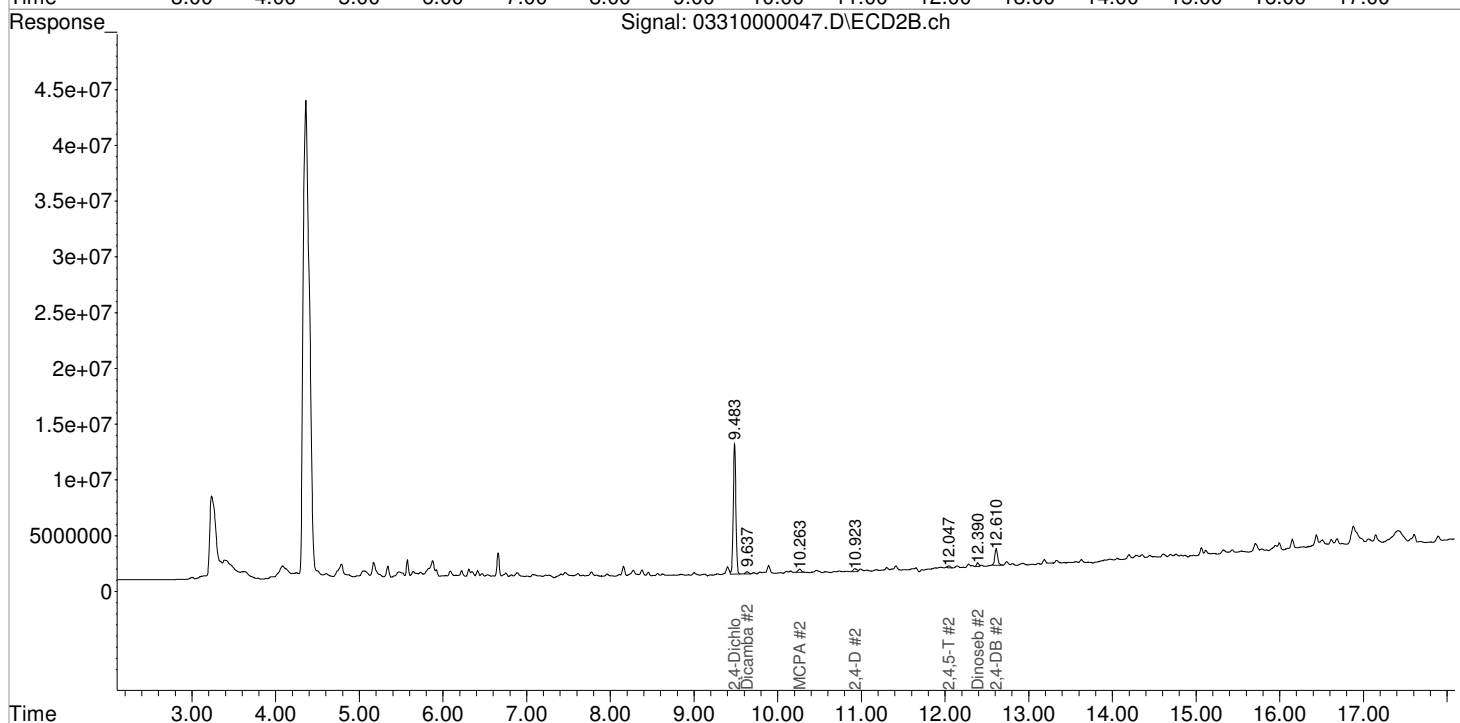
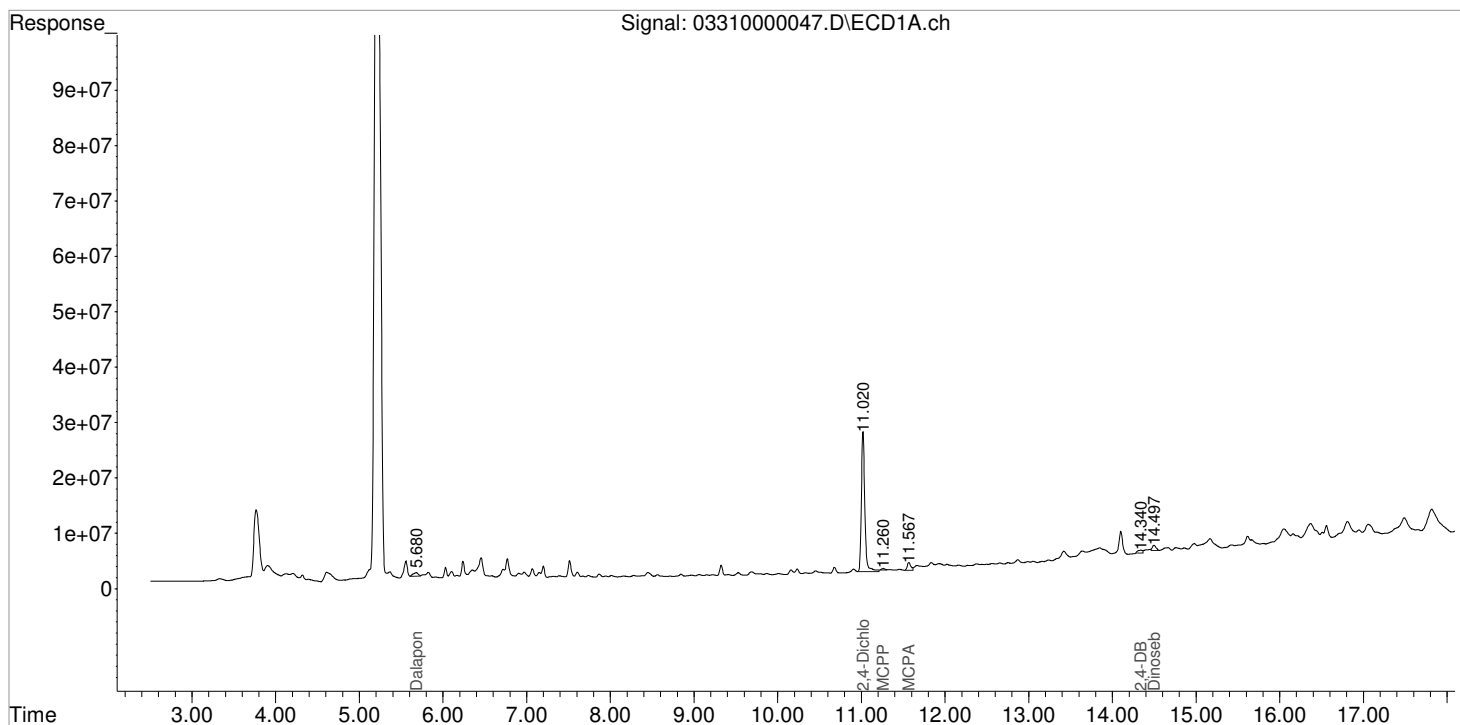
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\03310000047.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01-Apr-2021, 02:58:08
Sample : K2102809-008
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 11:23:54 2021
Quant Results File: 031721_8151.RES

Vial: 44
Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/05/21
2nd SW 04/05/21

Data File: J:\GC34\DATA\033121\03310000050.D\
Lab ID: K2102809-009
RunType: N/A
Matrix: Soil

Date Acquired: 4/1/21 04:10:52
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/05/21
2nd *AW* 04/05/21

Data File: J:\GC34\DATA\033121\03310000050.D\	Instrument: K-GC-34
Acqu Date: 4/1/21 04:10:52	Vial: 25
Run Type: N/A	Dilution: 1
Lab ID: K2102809-009	Raw Units: ppb

Bottle ID: K2102809-009.01	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/17/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot: 376465	Report Group: K2102809
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 3/24/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	11.02	9.48	72844583	26688864	70.703	71.264	71	71	71	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	13.41 ^{+0.06}	11.51	5496332	432578	1.281	0.296	2.4U	0.56U	2.8 U	Y
2,4-D	12.28	10.93 ^{-0.01}	737833	1081011	0.754	1.462	1.4U	2.8U	8.8 U	Y

Prep Amount: 32.946 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 79.90

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\GC34\DATA\033121\03310000050.D Vial: 45
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01-Apr-2021, 04:10:52 Operator: JTC
 Sample : K2102809-009 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 11:23:56 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.017	9.483	72844583	26688864	70.703	71.264
Target Compounds						
1) m Dalapon	5.687	4.840	2364441	2399294	2.418	5.055 #
3) m Dicamba	0.000	9.650	0	980175	N.D.	0.816 #
4) m MCPP	11.267f	10.013	915544	247478	201.198	424917.225 #
5) m MCPA	11.567	10.263f	2263672	866697	331.533	246.093 #
6) m Dichloroprop	0.000	0.000	0	0	N.D.	N.D.
7) m 2,4-D	12.277	10.933	737833	1081011	0.754	1.462 #
8) m 2,4,5-TP ...	13.410f	11.507	5496332	432578	1.281	0.296 #
9) m 2,4,5-T	13.727	12.047	404730	676636	0.120	0.588 #
10) m 2,4-DB	0.000	12.610f	0	3227762	N.D.	21.597 #
11) m Dinoseb	14.493	12.437	3546782	384741	1.371	0.417 #

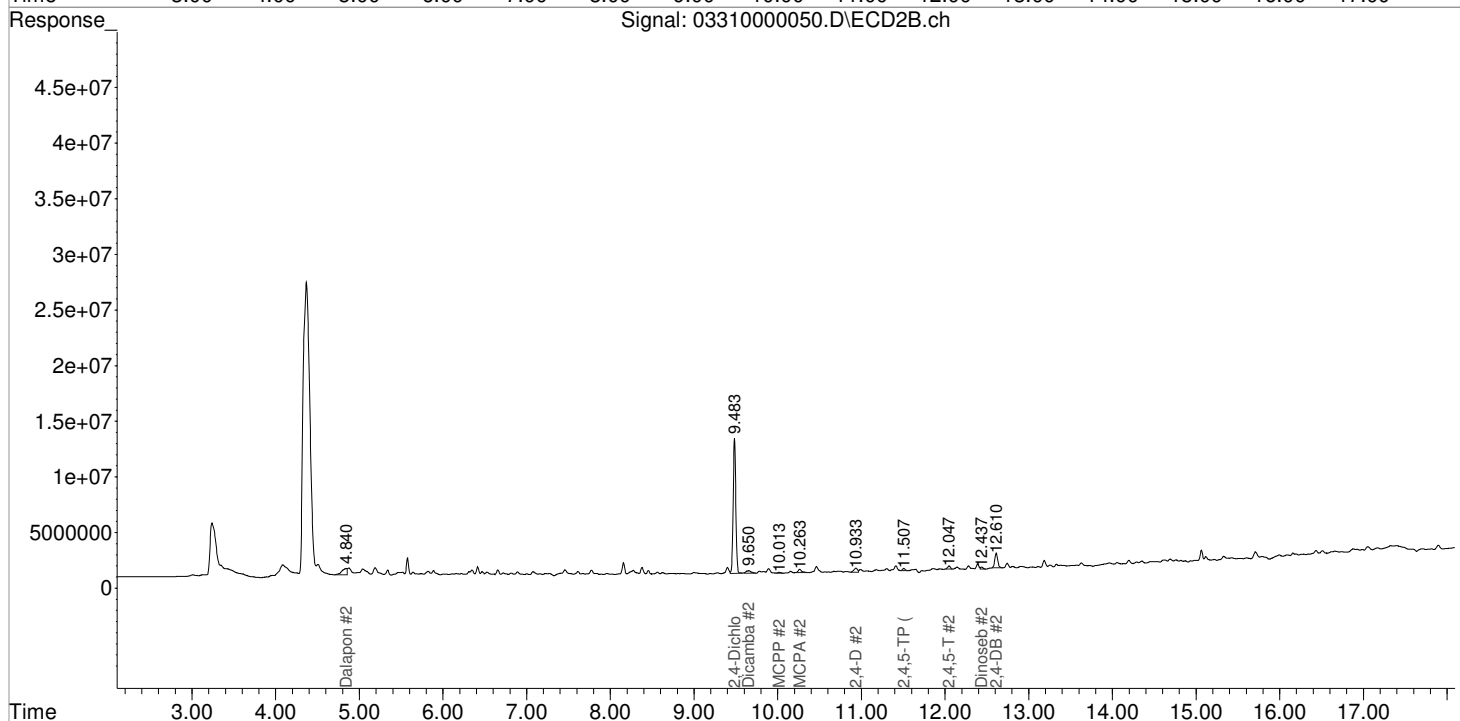
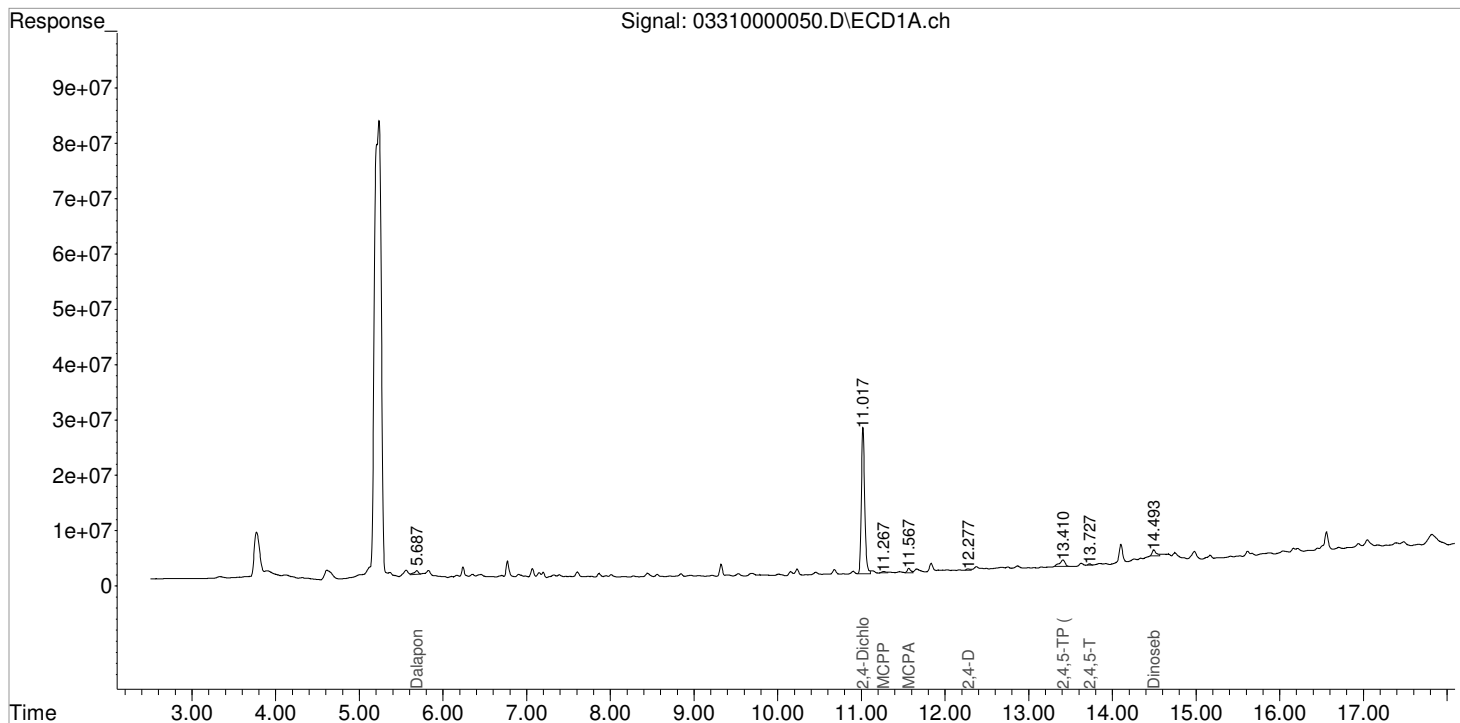
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\03310000050.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01-Apr-2021, 04:10:52
Sample : K2102809-009
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 11:23:56 2021
Quant Results File: 031721_8151.RES

Vial: 45
Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/05/21
2nd SW 04/05/21

Data File: J:\GC34\DATA\033121\03310000051.D\
Lab ID: K2102809-010
RunType: N/A
Matrix: Soil

Date Acquired: 4/1/21 04:34:47
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/05/21
2nd *SW* 04/05/21

Data File: J:\GC34\DATA\033121\03310000051.D\	Instrument: K-GC-34
Acqu Date: 4/1/21 04:34:47	Vial: 26
Run Type: N/A	Dilution: 1
Lab ID: K2102809-010	Raw Units: ppb

Bottle ID: K2102809-010.01	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/17/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot: 376465	Report Group: K2102809
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 3/24/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	11.02	9.48	78686241	26157356	76.373	69.845	76	70	70	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	13.32 ^{-0.03}	0.00	804450	0	0.188	0.000	0.34U	0U	2.6 U	Y
2,4-D	12.26 ^{-0.02}	10.93 ^{-0.01}	317036	803231	0.324	1.087	0.58U	1.9U	8.3 U	Y

Prep Amount: 31.402 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 88.90

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\GC34\DATA\033121\03310000051.D Vial: 46
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01-Apr-2021, 04:34:47 Operator: JTC
 Sample : K2102809-010 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 11:23:59 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.020	9.483	78686241	26157356	76.373	69.845
Target Compounds						
1) m Dalapon	5.690	4.880f	1653974	787256	1.691	1.659
3) m Dicamba	0.000	9.637f	0	1196595	N.D.	0.996 #
4) m MCPP	11.260f	10.030	1608902	396805	353.570	424846.936 #
5) m MCPA	11.567	10.337	4942338	303038	723.846	86.046 #
6) m Dichloroprop	11.953f	10.733	5140223	140418	5.403	0.403 #
7) m 2,4-D	12.260	10.933	317036	803231	0.324	1.087 #
8) m 2,4,5-TP ...	13.323	0.000	804450	0	0.188	N.D. #
9) m 2,4,5-T	0.000	12.040	0	759772	N.D.	0.660 #
10) m 2,4-DB	14.303	12.613f	2572648	4208496	5.895	28.159 #
11) m Dinoseb	14.507	12.430	4348412	476487	1.680	0.516 #

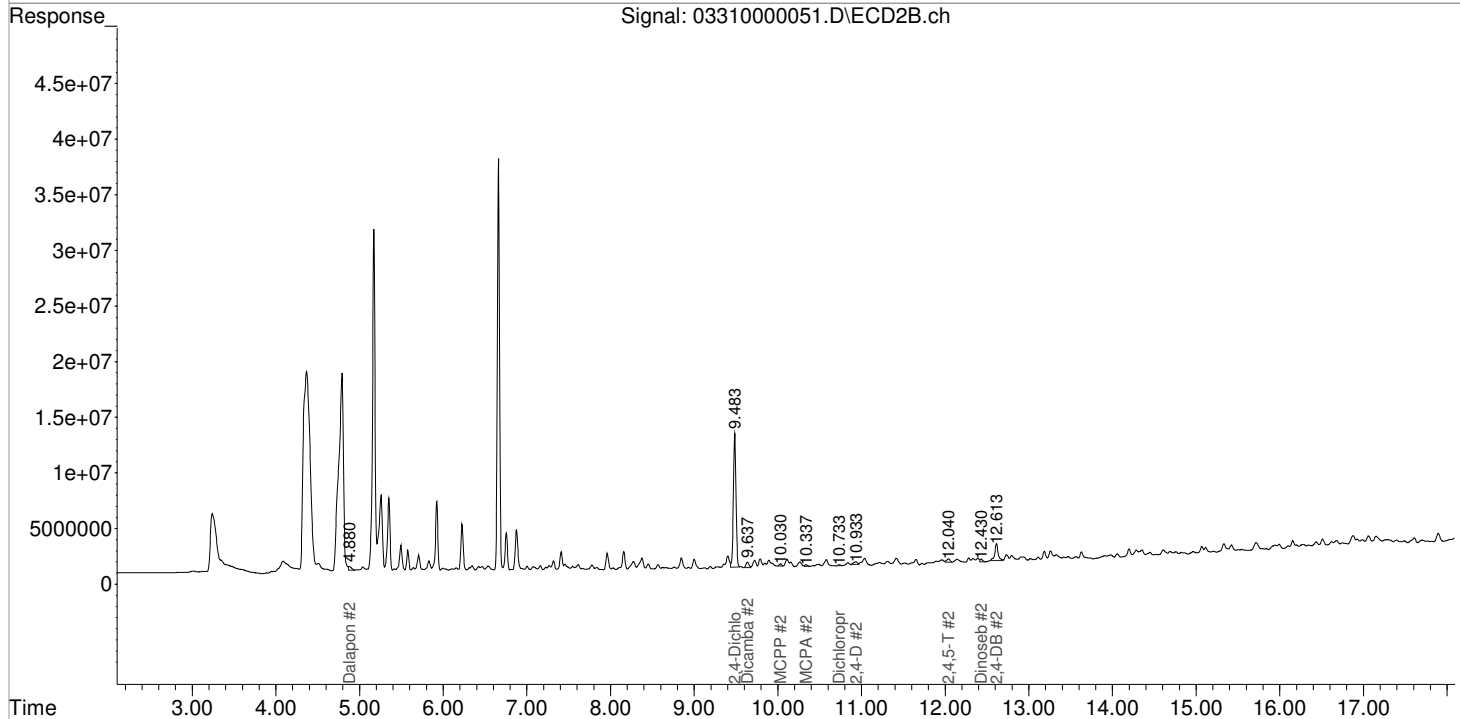
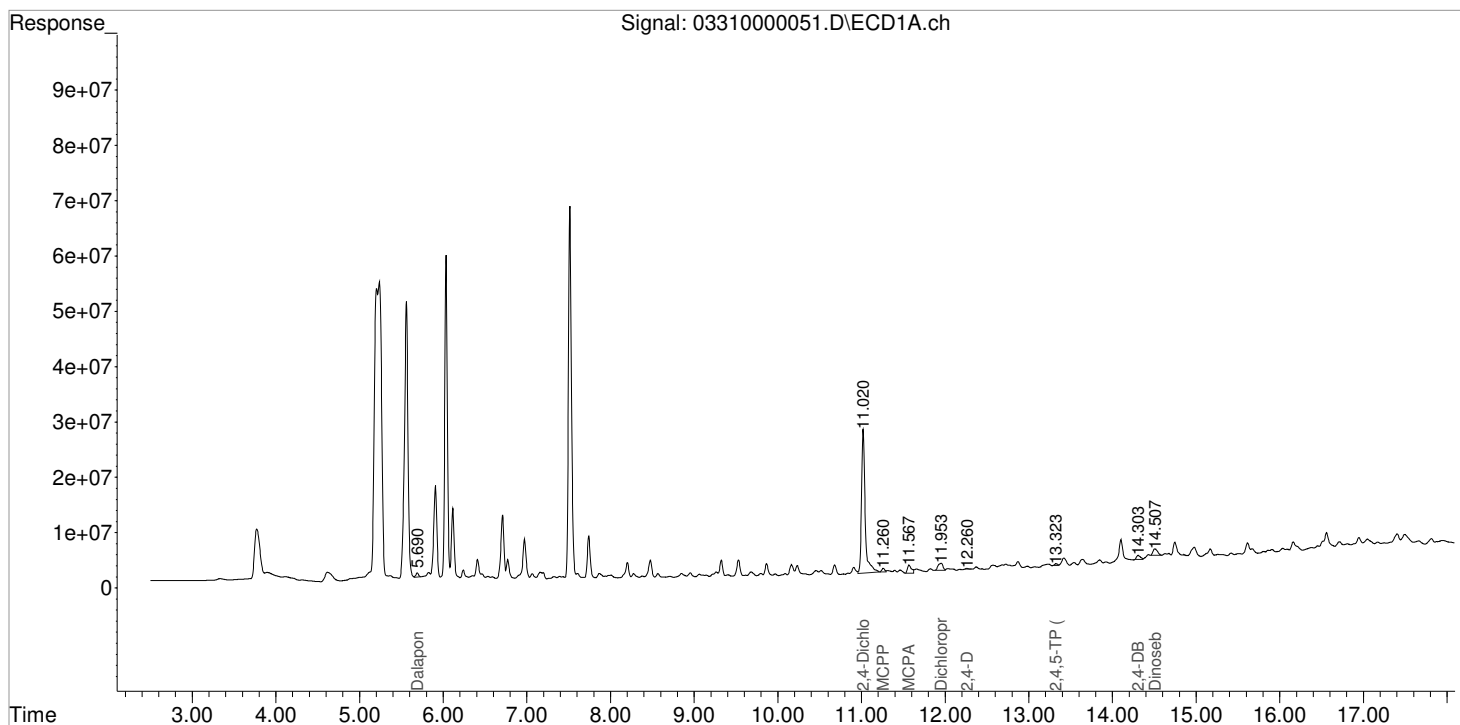
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\03310000051.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01-Apr-2021, 04:34:47
Sample : K2102809-010
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 11:23:59 2021
Quant Results File: 031721_8151.RES

Vial: 46
Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/05/21
2nd SW 04/05/21

Data File: J:\GC34\DATA\033121\03310000012.D\
Lab ID: K2102809-011
RunType: N/A
Matrix: Soil

Date Acquired: 3/31/21 12:48:58
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/05/21
2nd *AW* 04/05/21

Data File: J:\GC34\DATA\033121\03310000012.D\	Instrument: K-GC-34
Acqu Date: 3/31/21 12:48:58	Vial: 5
Run Type: N/A	Dilution: 1
Lab ID: K2102809-011	Raw Units: ppb

Bottle ID: K2102809-011.01	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/10/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot: 376223	Report Group: K2102809
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 3/24/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	11.02	9.49	81119558	26164268	78.734	69.863	79	70	70	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	13.35	0.00	2305383	0	0.537	0.000	1.0U	0U	2.8 U	Y
2,4-D	12.28	10.94 ^{-0.01}	5465296	50527133	5.588	68.347	10Ui	130Ui	12 Ui	Y

int

Prep Amount: 31.369 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 84.90

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\GC34\DATA\033121\03310000012.D Vial: 13
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31-Mar-2021, 12:48:58 Operator: JTC
 Sample : K2102809-011 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 10:46:55 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.023	9.490	81119558	26164268	78.734	69.863
Target Compounds						
1) m Dalapon	5.667	4.890f	2972646	83834	3.039	0.177 #
3) m Dicamba	0.000	9.647	0	1611853	N.D.	1.342 #
4) m MCPP	0.000	10.030	0	3043896	N.D.	683.613 #
5) m MCPA	11.610f	10.320	6802311	1850805	996.255	525.524 #
6) m Dichloroprop	11.973	10.713f	379733	1082901	0.399	3.111 #
7) m 2,4-D	12.277	10.937	5465296	50527133	5.588	68.347 #
8) m 2,4,5-TP ...	13.347	0.000	2305383	0	0.537	N.D. #
9) m 2,4,5-T	0.000	12.053	0	1065323	N.D.	0.925 #
10) m 2,4-DB	0.000	12.533	0	565507	N.D.	3.784 #
11) m Dinoseb	14.523f	12.400f	5420795	876117	2.095	0.949 #

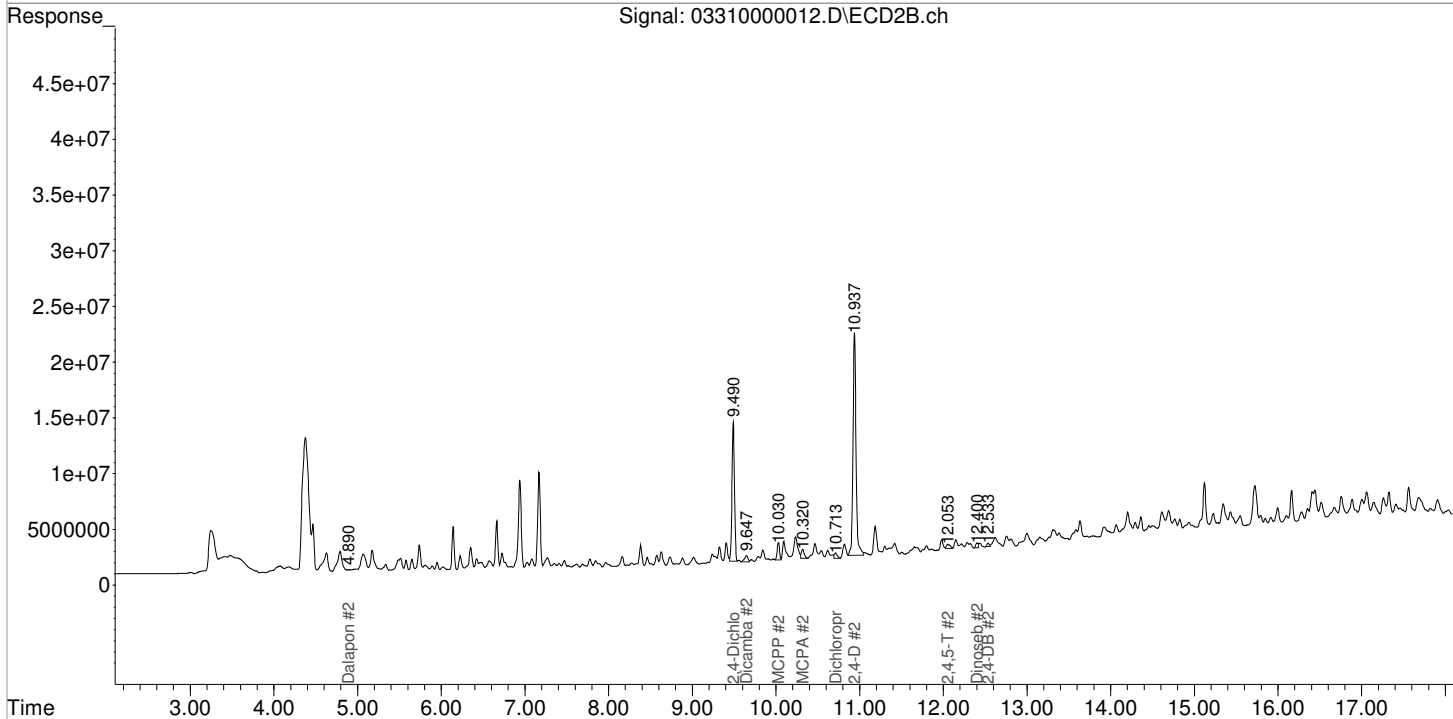
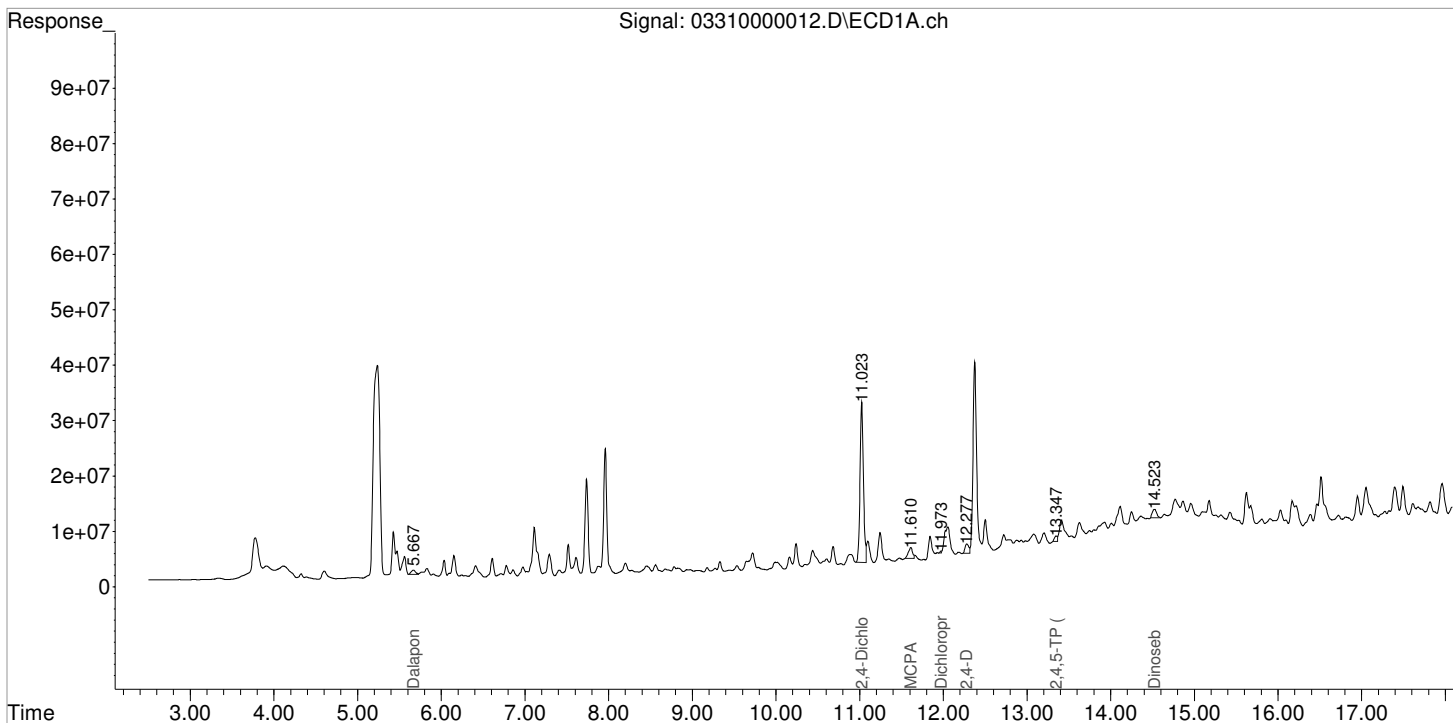
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\0331000012.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31-Mar-2021, 12:48:58
 Sample : K2102809-011
 Misc :
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 10:46:55 2021
 Quant Results File: 031721_8151.RES

Vial: 13
 Operator: JTC
 Inst : GCI
 Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/05/21
2nd SW 04/05/21

Data File: J:\GC34\DATA\033121\03310000013.D\
Lab ID: K2102809-012
RunType: N/A
Matrix: Soil

Date Acquired: 3/31/21 13:13:05
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/05/21
2nd *SW* 04/05/21

Data File: J:\GC34\DATA\033121\03310000013.D\	Instrument: K-GC-34
Acqu Date: 3/31/21 13:13:05	Vial: 6
Run Type: N/A	Dilution: 1
Lab ID: K2102809-012	Raw Units: ppb

Bottle ID: K2102809-012.01	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/11/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot: 376223	Report Group: K2102809
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 3/24/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	11.02	9.49	52067876	17626447	50.537	47.066	51	47	47	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	0.00	0.00	0	0	0.000	0.000	0U	0U	3.3 U	Y
2,4-D	0.00	10.94 ^{-0.01}	0	1785944	0.000	2.416	0U	5.5U	11 U	Y

Prep Amount: 30.740 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 72.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\GC34\DATA\033121\03310000013.D Vial: 14
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31-Mar-2021, 13:13:05 Operator: JTC
 Sample : K2102809-012 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 10:46:58 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.023	9.490	52067876	17626447	50.537	47.066
Target Compounds						
1) m Dalapon	5.677	4.887f	3153876	106808	3.225	0.225 #
3) m Dicamba	0.000	9.643	0	320534	N.D.	0.267 #
4) m MCPP	0.000	10.030	0	320277	N.D.	424882.961 #
5) m MCPA	11.573	10.270f	1475981	735395	216.170	208.810
6) m Dichloroprop	0.000	0.000	0	0	N.D.	N.D.
7) m 2,4-D	0.000	10.937	0	1785944	N.D.	2.416 #
8) m 2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.
9) m 2,4,5-T	0.000	0.000	0	0	N.D.	N.D.
10) m 2,4-DB	0.000	12.617f	0	2182228	N.D.	14.601 #
11) m Dinoseb	14.497	12.393f	10825180	312238	4.183	0.338 #

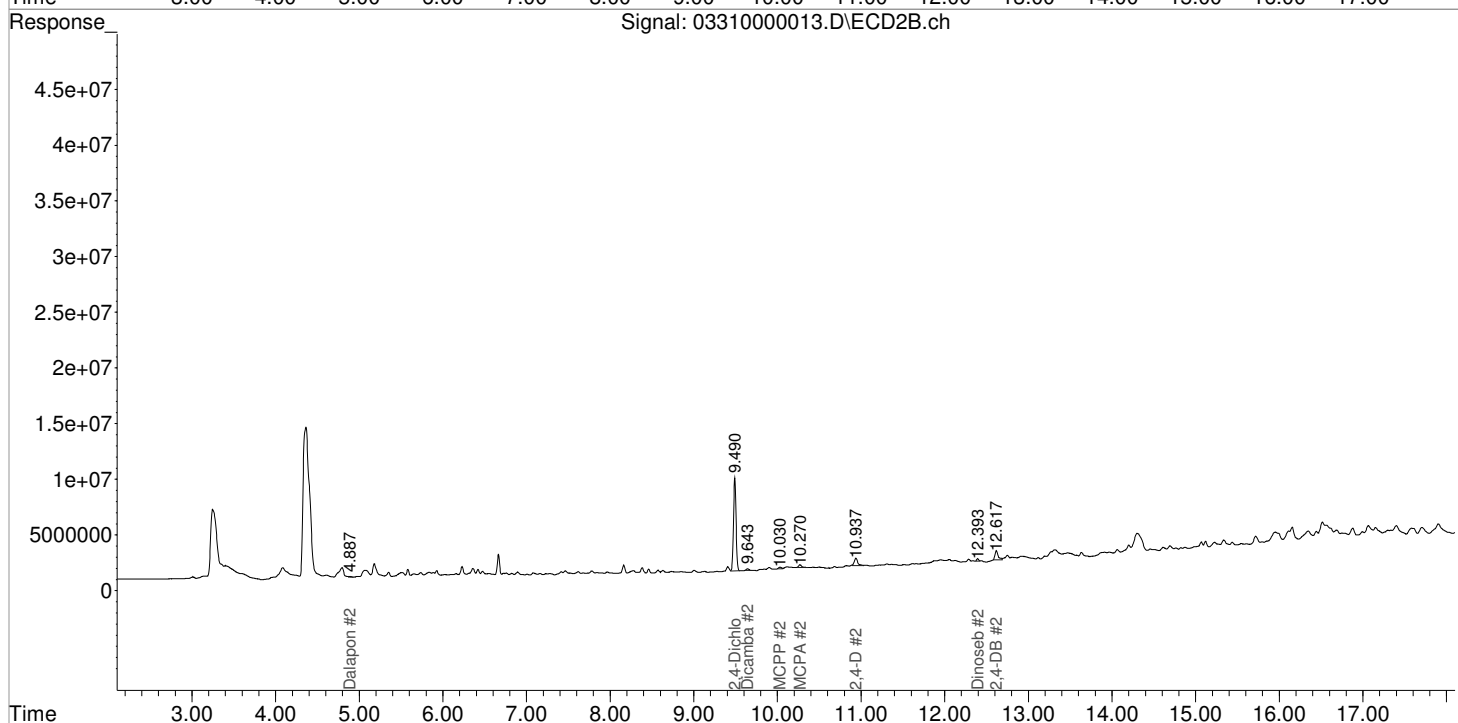
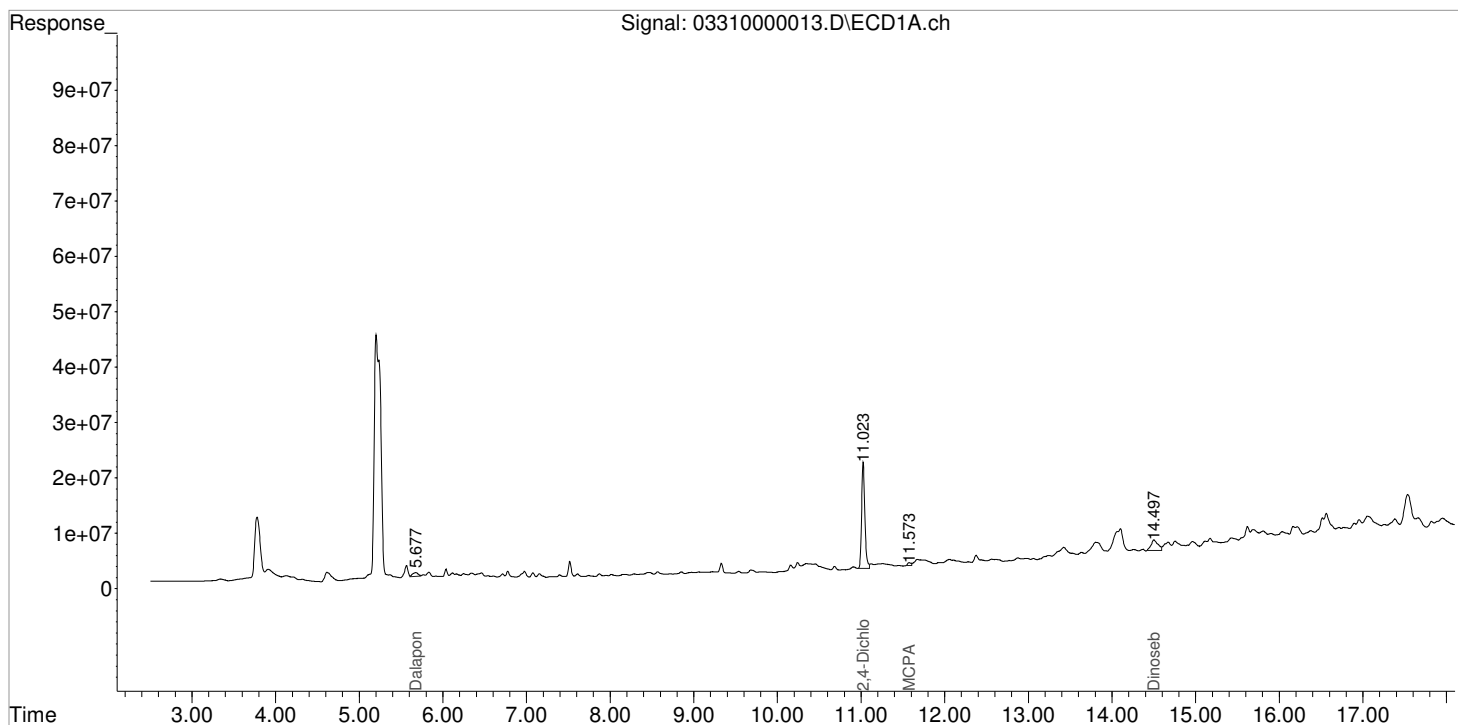
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\03310000013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 13:13:05
Sample : K2102809-012
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 10:46:58 2021
Quant Results File: 031721_8151.RES

Vial: 14
Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/05/21
2nd SW 04/05/21

Data File: J:\GC34\DATA\033121\03310000014.D\
Lab ID: K2102809-013
RunType: N/A
Matrix: Soil

Date Acquired: 3/31/21 13:37:14
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/05/21
2nd *AW* 04/05/21

Data File: J:\GC34\DATA\033121\03310000014.D\	Instrument: K-GC-34
Acqu Date: 3/31/21 13:37:14	Vial: 7
Run Type: N/A	Dilution: 1
Lab ID: K2102809-013	Raw Units: ppb

Bottle ID: K2102809-013.01	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/11/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot: 376223	Report Group: K2102809
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 3/24/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	11.02	9.49	60489855	22376167	58.711	59.748	59	60	59	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	0.00	0.00	0	0	0.000	0.000	0U	0U	3.2 U	Y
2,4-D	0.00	10.94 ^{-0.01}	0	888583	0.000	1.202	0U	2.6U	11 U	Y

Prep Amount: 31.752 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 72.40

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File : J:\GC34\DATA\033121\03310000014.D Vial: 15
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31-Mar-2021, 13:37:14 Operator: JTC
 Sample : K2102809-013 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 10:47:01 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.023	9.490	60489855	22376167	58.711	59.748
Target Compounds						
1) m Dalapon	5.687	4.883f	1610633	176220	1.647	0.371 #
3) m Dicamba	0.000	9.650	0	389970	N.D.	0.325 #
4) m MCPP	0.000	0.000	0	0	N.D.	N.D.
5) m MCPA	11.573	10.270f	1379951	875418	202.105	248.569
6) m Dichloroprop	0.000	0.000	0	0	N.D.	N.D.
7) m 2,4-D	0.000	10.937	0	888583	N.D.	1.202 #
8) m 2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.
9) m 2,4,5-T	0.000	12.053	0	367573	N.D.	0.319 #
10) m 2,4-DB	0.000	12.617f	0	2054202	N.D.	13.745 #
11) m Dinoseb	14.500	12.393f	2585494	751575	0.999	0.814

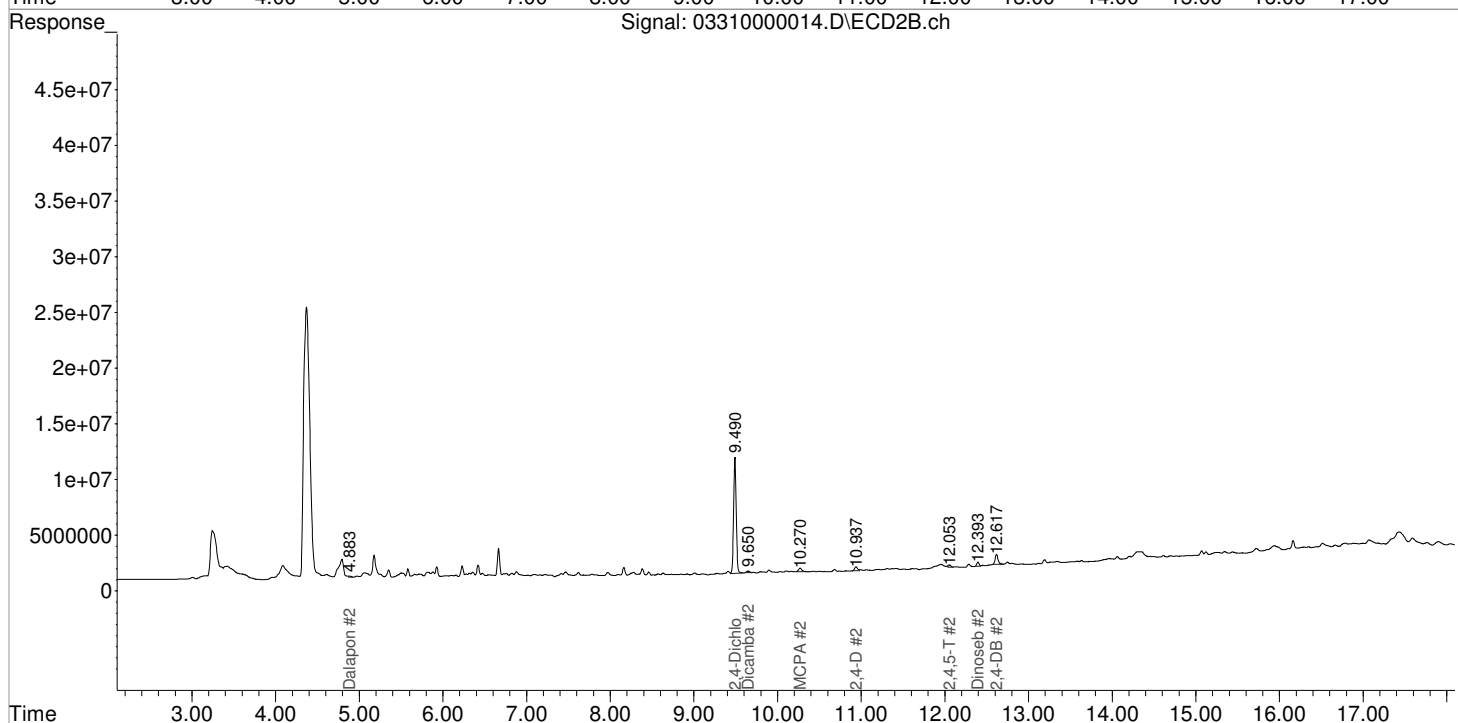
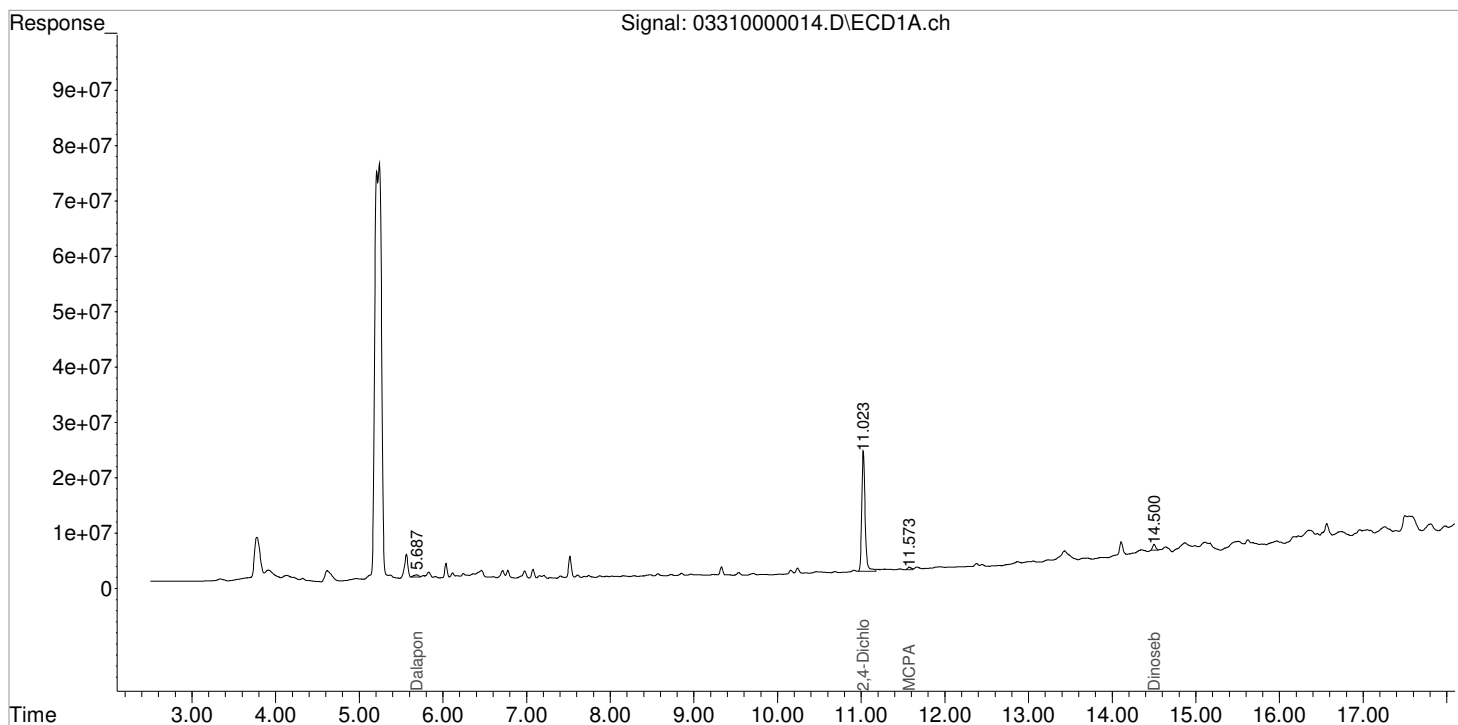
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\0331000014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 13:37:14
Sample : K2102809-013
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 10:47:01 2021
Quant Results File: 031721_8151.RES

Vial: 15
Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/05/21
2nd SW 04/05/21

Data File: J:\GC34\DATA\033121\03310000015.D\
Lab ID: K2102809-014
RunType: N/A
Matrix: Soil

Date Acquired: 3/31/21 14:01:43
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/05/21
2nd *AW* 04/05/21

Data File: J:\GC34\DATA\033121\03310000015.D\	Instrument: K-GC-34
Acqu Date: 3/31/21 14:01:43	Vial: 8
Run Type: N/A	Dilution: 1
Lab ID: K2102809-014	Raw Units: ppb

Bottle ID: K2102809-014.01	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/11/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot: 376223	Report Group: K2102809
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 3/24/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	11.02	9.49	52819910	18771396	51.267	50.123	51	50	50	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	13.35	0.00	555345	0	0.129	0.000	0.29U	0U	3.3 U	Y
2,4-D	0.00	10.94 ^{-0.01}	0	676614	0.000	0.915	0U	2.1U	11 U	Y

Prep Amount: 31.055 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 71.40

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
r: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\GC34\DATA\033121\03310000015.D Vial: 16
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31-Mar-2021, 14:01:43 Operator: JTC
 Sample : K2102809-014 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 10:47:04 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.023	9.490	52819910	18771396	51.267	50.123
Target Compounds						
1) m Dalapon	5.683	4.887f	1672841	83266	1.710	0.175 #
3) m Dicamba	0.000	9.643	0	590745	N.D.	0.492 #
4) m MCPP	0.000	10.030	0	677814	N.D.	424714.602 #
5) m MCPA	11.573	10.270f	1868704	994995	273.687	282.522
6) m Dichloroprop	11.930f	10.820f	401836	207632	0.422	0.596 #
7) m 2,4-D	0.000	10.937	0	676614	N.D.	0.915 #
8) m 2,4,5-TP ...	13.350	0.000	555345	0	0.129	N.D. #
9) m 2,4,5-T	0.000	12.053	0	369880	N.D.	0.321 #
10) m 2,4-DB	0.000	12.617f	0	2659594	N.D.	17.795 #
11) m Dinoseb	14.500	12.393f	2050450	575836	0.792	0.624

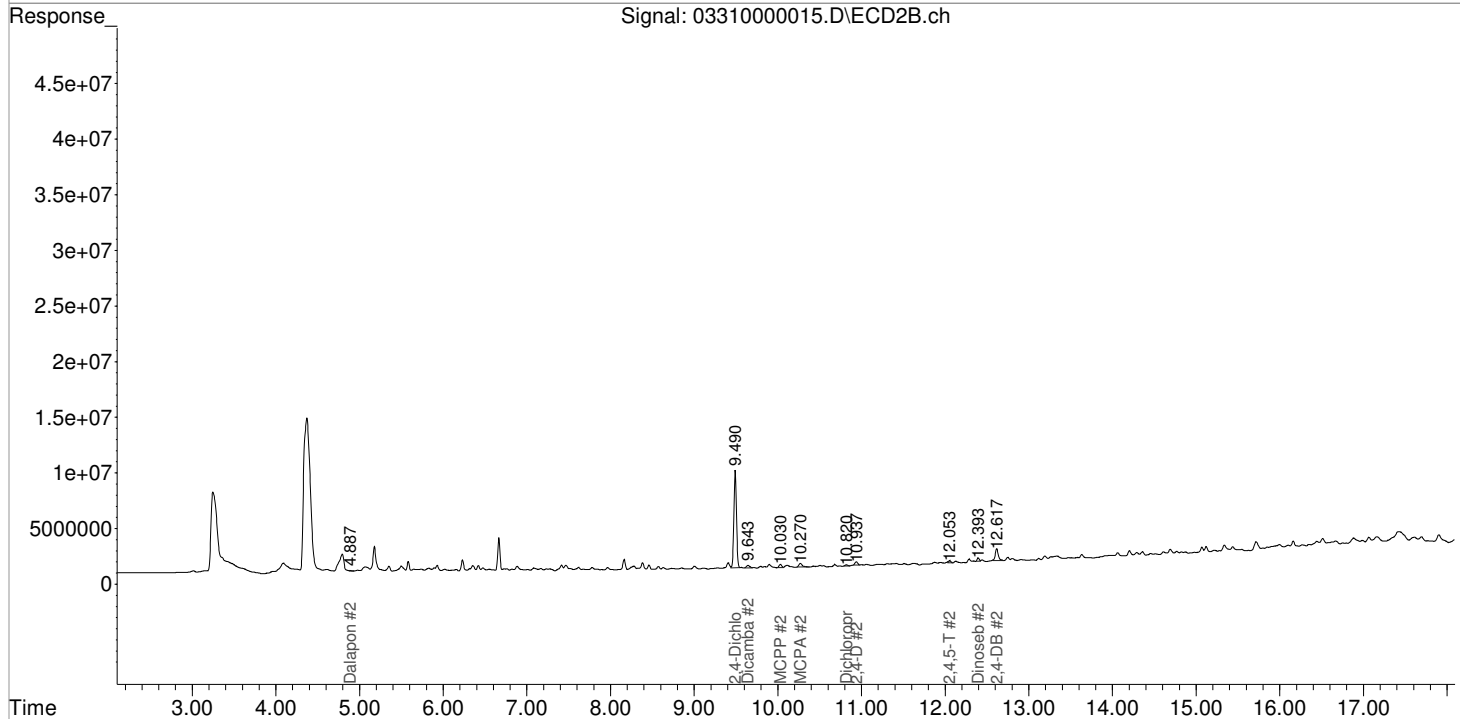
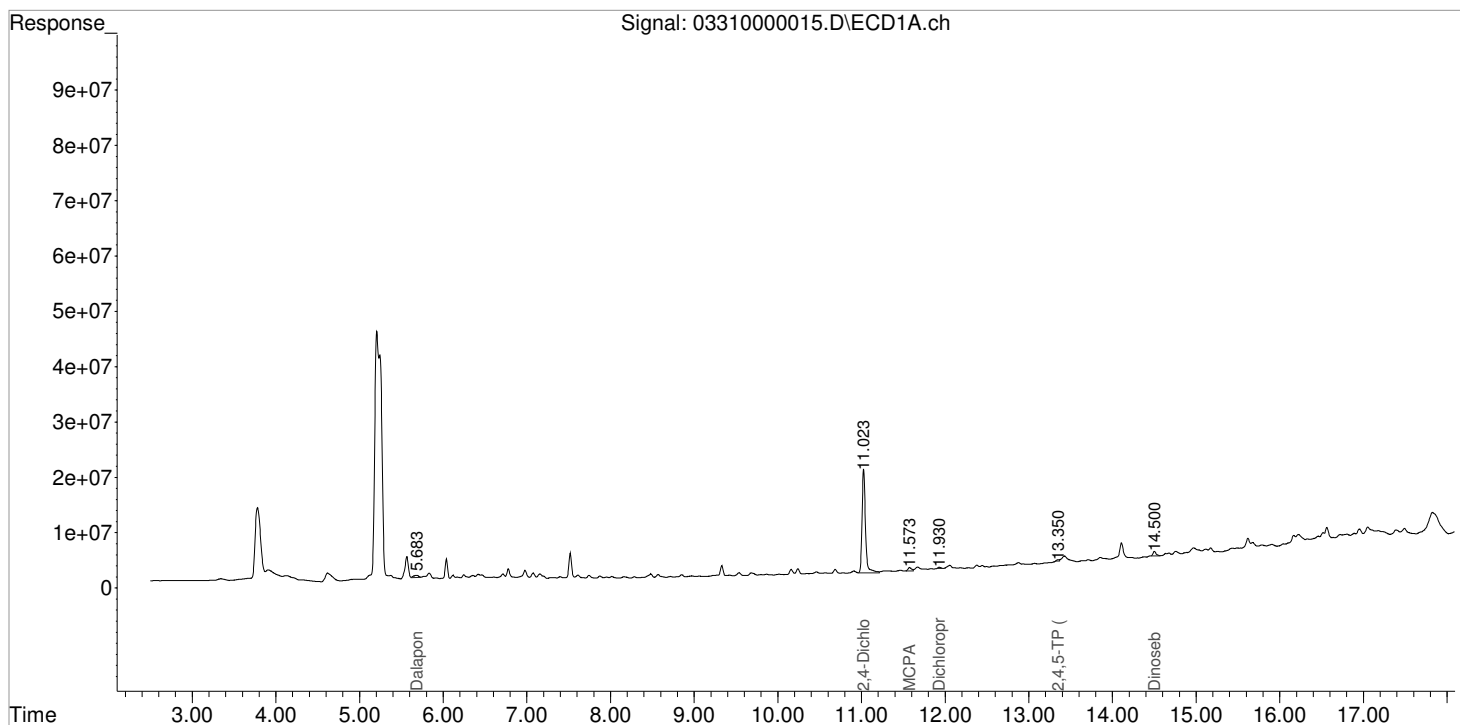
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\0331000015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 14:01:43
Sample : K2102809-014
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 10:47:04 2021
Quant Results File: 031721_8151.RES

Vial: 16
Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/05/21
2nd SW 04/05/21

Data File: J:\GC34\DATA\033121\03310000052.D\
Lab ID: K2102809-015
RunType: N/A
Matrix: Soil

Date Acquired: 4/1/21 04:58:44
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/05/21
2nd *AW* 04/05/21

Data File: J:\GC34\DATA\033121\03310000052.D\	Instrument: K-GC-34
Acqu Date: 4/1/21 04:58:44	Vial: 27
Run Type: N/A	Dilution: 1
Lab ID: K2102809-015	Raw Units: ppb

Bottle ID: K2102809-015.01	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/15/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot: 376465	Report Group: K2102809
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 3/24/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	11.02	9.48	79265267	27330327	76.935	72.977	77	73	73	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	13.34 ^{-0.01}	0.00	1055252	0	0.246	0.000	0.45U	0U	2.7 U	Y
2,4-D	12.28	10.93 ^{-0.01}	251075	1560689	0.257	2.111	0.47U	3.9U	8.5 U	Y

Prep Amount: 30.523 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 89.80

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\GC34\DATA\033121\03310000052.D Vial: 47
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01-Apr-2021, 04:58:44 Operator: JTC
 Sample : K2102809-015 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 11:24:02 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.020	9.483	79265267	27330327	76.935	72.977
Target Compounds						
1) m Dalapon	0.000	4.790f	0	59399987	N.D.	125.156 #
3) m Dicamba	0.000	9.643	0	879191	N.D.	0.732 #
4) m MCPP	11.260f	10.030	1605953	614052	352.922	424744.636 #
5) m MCPA	11.567	10.260f	4715848	986185	690.675	280.021 #
6) m Dichloroprop	11.957f	10.737	4330951	252536	4.552	0.725 #
7) m 2,4-D	12.277	10.930	251075	1560689	0.257	2.111 #
8) m 2,4,5-TP ...	13.337	0.000	1055252	0	0.246	N.D. #
9) m 2,4,5-T	0.000	12.037	0	933525	N.D.	0.811 #
10) m 2,4-DB	14.303	12.567	1566075	319084	3.588	2.135 #
11) m Dinoseb	14.497	12.430	5269397	420502	2.036	0.456 #

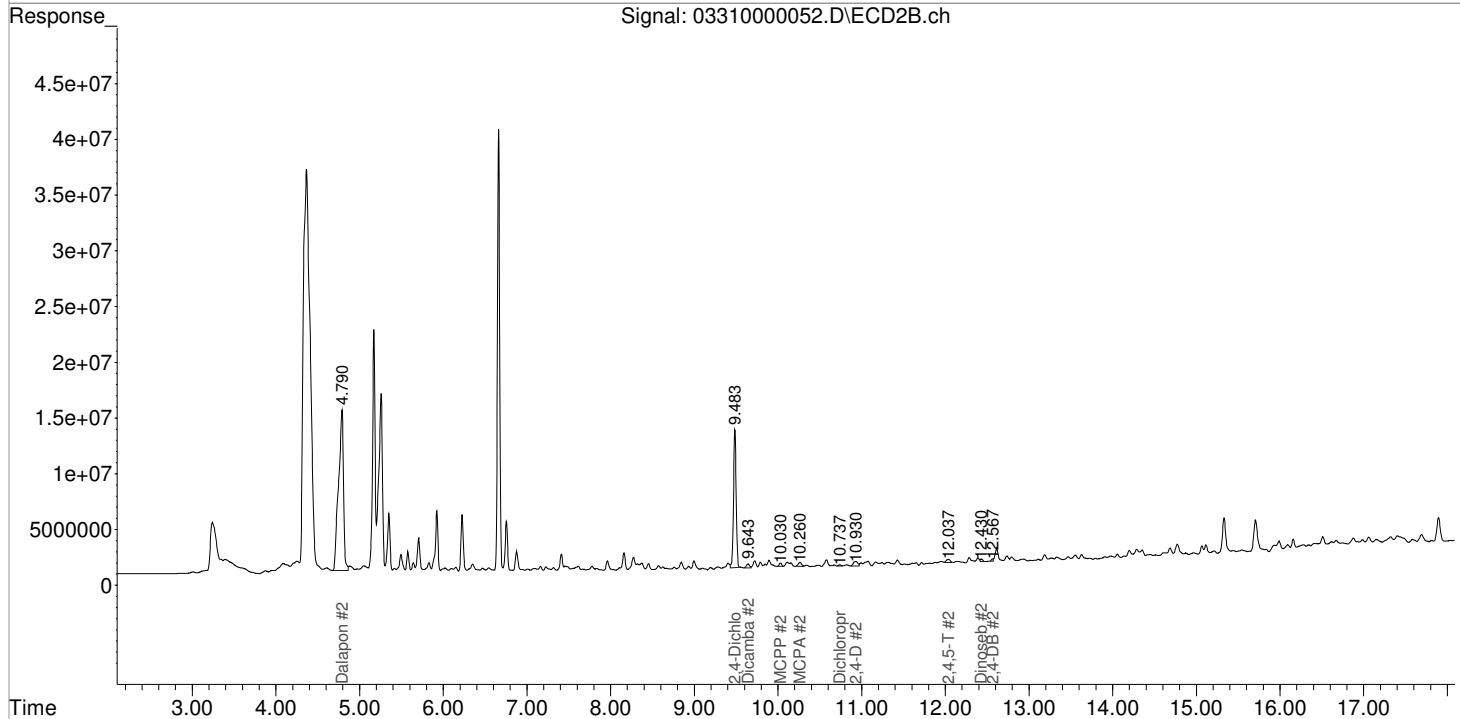
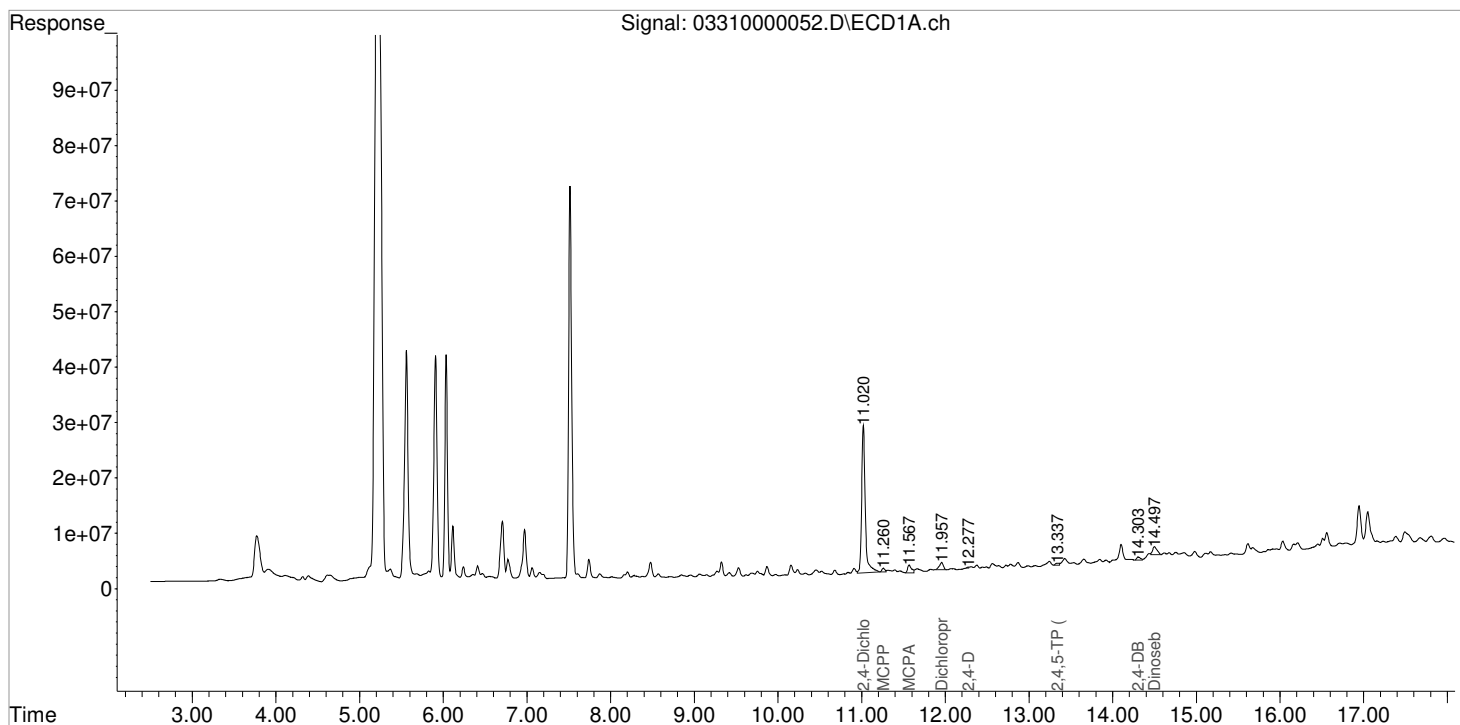
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\0331000052.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01-Apr-2021, 04:58:44
Sample : K2102809-015
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 11:24:02 2021
Quant Results File: 031721_8151.RES

Vial: 47
Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/05/21
2nd SW 04/05/21

Data File: J:\GC34\DATA\033121\03310000053.D\
Lab ID: K2102809-016
RunType: N/A
Matrix: Soil

Date Acquired: 4/1/21 05:23:09
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/05/21
2nd *AW* 04/05/21

Data File: J:\GC34\DATA\033121\03310000053.D\	Instrument: K-GC-34
Acqu Date: 4/1/21 05:23:09	Vial: 28
Run Type: N/A	Dilution: 1
Lab ID: K2102809-016	Raw Units: ppb

Bottle ID: K2102809-016.01	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/15/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot: 376465	Report Group: K2102809
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 3/24/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	11.02	9.48	92033628	28384691	89.327	75.792	89	76	76	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	13.33 ^{-0.02}	0.00	1901707	0	0.443	0.000	0.83U	0U	2.7 U	Y
2,4-D	0.00	10.91 ^{-0.03}	0	890487	0.000	1.205	0U	2.3U	8.7 U	Y

Prep Amount: 30.250 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 88.30

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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\\alprews001\starlims\LIMSReps\QuantValidation.rpt

Data File : J:\GC34\DATA\033121\03310000053.D Vial: 48
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01-Apr-2021, 05:23:09 Operator: JTC
 Sample : K2102809-016 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 11:24:05 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.020	9.483	92033628	28384691	89.327	75.792
Target Compounds						
1) m Dalapon	5.687	4.893f	514515	3631964	0.526	7.653 #
3) m Dicamba	0.000	9.637f	0	1097938	N.D.	0.914 #
4) m MCPP	11.260f	10.030	2229522	3156661	489.956	737.021 #
5) m MCPA	11.573	10.337	2231425	651172	326.811	184.896 #
6) m Dichloroprop	11.930f	10.740	3158153	630918	3.319	1.812 #
7) m 2,4-D	0.000	10.913f	0	890487	N.D.	1.205 #
8) m 2,4,5-TP ...	13.333	0.000	1901707	0	0.443	N.D. #
9) m 2,4,5-T	0.000	12.037	0	1427180	N.D.	1.240 #
10) m 2,4-DB	14.307	12.567	1822654	265752	4.176	1.778 #
11) m Dinoseb	14.497	12.390f	25720493	404444	9.939	0.438 #

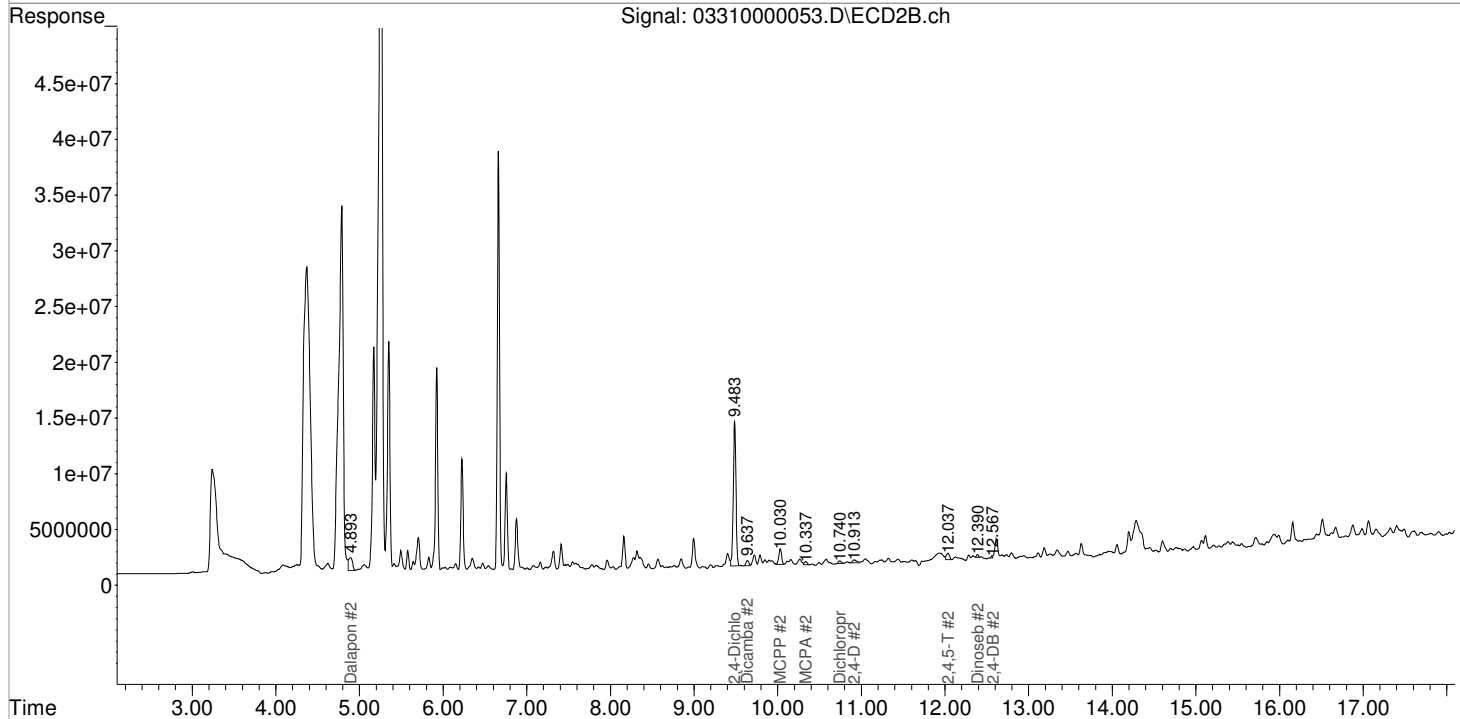
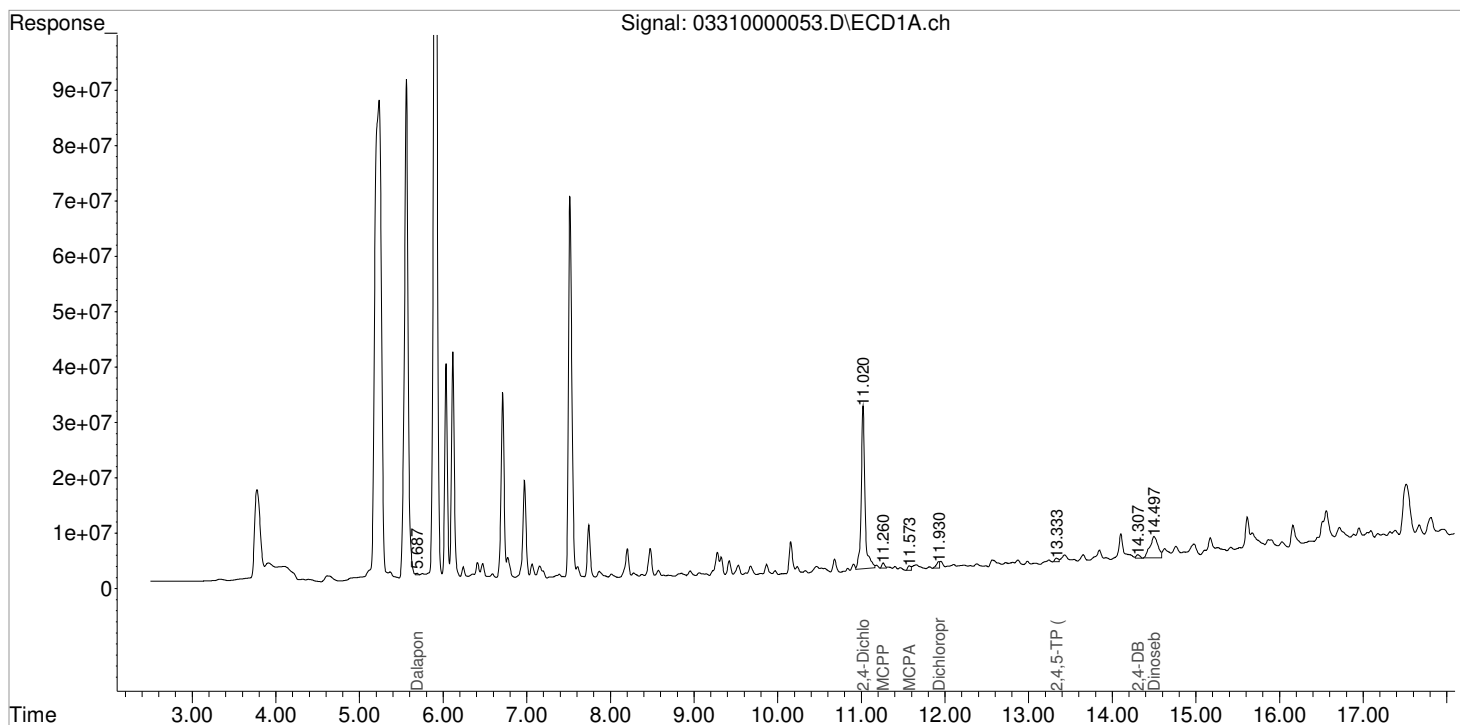
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\03310000053.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01-Apr-2021, 05:23:09
Sample : K2102809-016
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 11:24:05 2021
Quant Results File: 031721_8151.RES

Vial: 48
Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/05/21
2nd SW 04/05/21

Data File: J:\GC34\DATA\033121\03310000054.D\
Lab ID: K2102809-017
RunType: N/A
Matrix: Soil

Date Acquired: 4/1/21 05:47:35
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/05/21
2nd *SW* 04/05/21

Data File: J:\GC34\DATA\033121\03310000054.D\	Instrument: K-GC-34
Acqu Date: 4/1/21 05:47:35	Vial: 29
Run Type: N/A	Dilution: 1
Lab ID: K2102809-017	Raw Units: ppb

Bottle ID: K2102809-017.01	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/15/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot: 376465	Report Group: K2102809
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 3/24/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	11.02	9.49 ^{+0.01}	72349659	26191329	70.222	69.936	70	70	70	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	13.29 ^{-0.06}	0.00	223515	0	0.052	0.000	0.12U	0U	3.3 U	Y
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	11 U	Y

Prep Amount: 30.564 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 71.40

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\GC34\DATA\033121\03310000054.D Vial: 49
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01-Apr-2021, 05:47:35 Operator: JTC
 Sample : K2102809-017 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 11:24:09 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.023	9.487	72349659	26191329	70.222	69.936
Target Compounds						
1) m Dalapon	5.680	0.000	952203	0	0.974	N.D. #
3) m Dicamba	0.000	9.650	0	519597	N.D.	0.433 #
4) m MCPP	11.330	10.033	591251	384998	129.932	424852.495 #
5) m MCPA	11.570	10.340	2621487	333146	383.938	94.595 #
6) m Dichloroprop	0.000	10.767	0	326120	N.D.	0.937 #
7) m 2,4-D	0.000	0.000	0	0	N.D.	N.D.
8) m 2,4,5-TP ...	13.293f	0.000	223515	0	0.052	N.D. #
9) m 2,4,5-T	0.000	12.040	0	1283360	N.D.	1.115 #
10) m 2,4-DB	14.297f	12.613f	831619	2485216	1.905	16.629 #
11) m Dinoseb	14.507	12.390f	3007326	336794	1.162	0.365 #

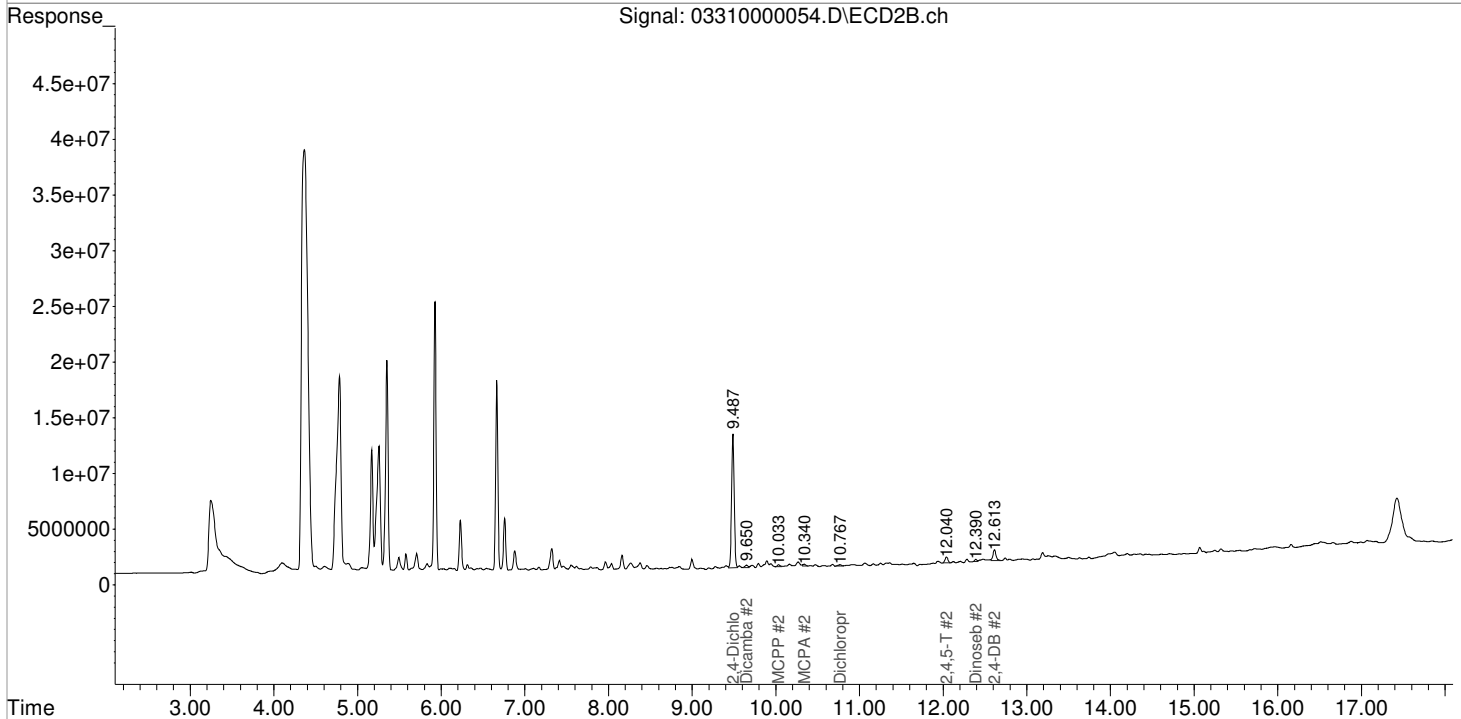
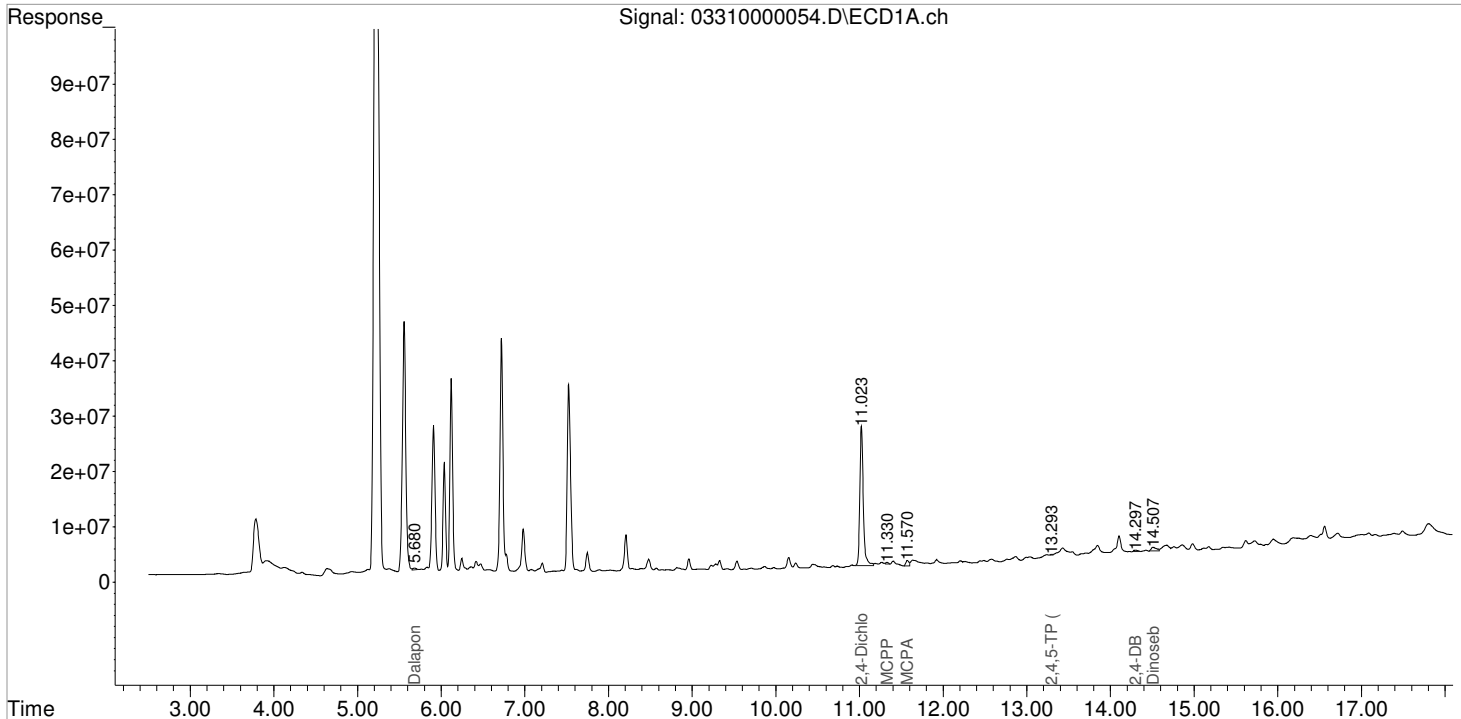
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\03310000054.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01-Apr-2021, 05:47:35
Sample : K2102809-017
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 11:24:09 2021
Quant Results File: 031721_8151.RES

Vial: 49
Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/05/21
2nd SW 04/05/21

Data File: J:\GC34\DATA\033121\03310000055.D\
Lab ID: K2102809-018
RunType: N/A
Matrix: Soil

Date Acquired: 4/1/21 06:11:59
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/05/21
2nd *SW* 04/05/21

Data File: J:\GC34\DATA\033121\03310000055.D\	Instrument: K-GC-34
Acqu Date: 4/1/21 06:11:59	Vial: 30
Run Type: N/A	Dilution: 1
Lab ID: K2102809-018	Raw Units: ppb

Bottle ID: K2102809-018.01	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/16/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot: 376465	Report Group: K2102809
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 3/24/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	11.02	9.49 ^{+0.01}	82575455	27486213	80.147	73.393	80	73	73	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	13.34 ^{-0.01}	0.00	1678078	0	0.391	0.000	0.72U	0U	2.7 U	Y
2,4-D	12.29 ^{+0.01}	10.92 ^{-0.02}	1850188	1036238	1.892	1.402	3.5U	2.6U	8.6 U	Y

Prep Amount: 30.428 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 88.90

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\GC34\DATA\033121\03310000055.D Vial: 50
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01-Apr-2021, 06:11:59 Operator: JTC
 Sample : K2102809-018 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 11:24:12 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.020	9.487	82575455	27486213	80.147	73.393
Target Compounds						
1) m Dalapon	0.000	4.790f	0	99368611	N.D.	209.370 #
3) m Dicamba	0.000	9.640f	0	1010653	N.D.	0.842 #
4) m MCPP	11.260f	10.030	3377490	196817	742.232	424941.066 #
5) m MCPA	11.570	10.263f	3151003	1021409	461.490	290.022 #
6) m Dichloroprop	11.933f	10.740	1491301	163265	1.567	0.469 #
7) m 2,4-D	12.287	10.923	1850188	1036238	1.892	1.402 #
8) m 2,4,5-TP ...	13.337	0.000	1678078	0	0.391	N.D. #
9) m 2,4,5-T	13.783f	12.040	739866	855222	0.219	0.743 #
10) m 2,4-DB	14.307	12.567	1662549	320083	3.809	2.142 #
11) m Dinoseb	14.500	12.390f	2450855	411062	0.947	0.445 #

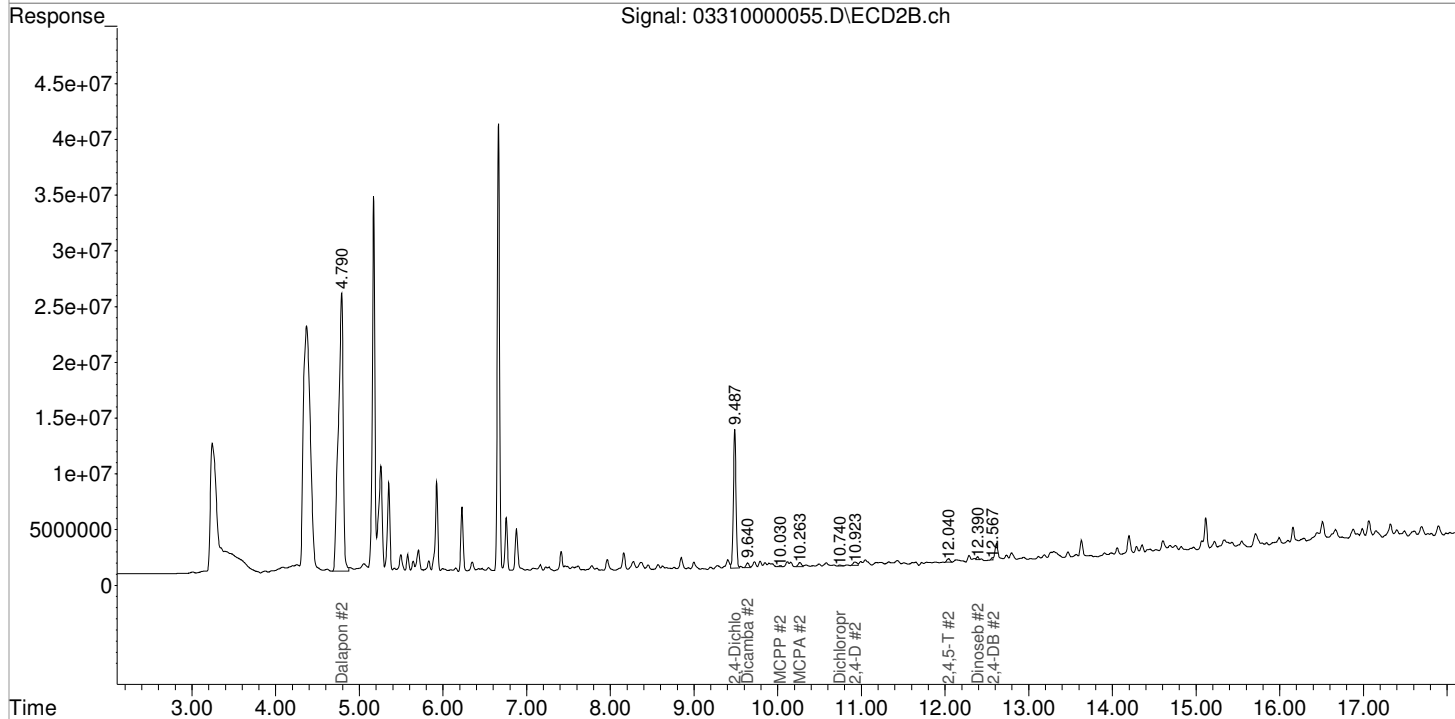
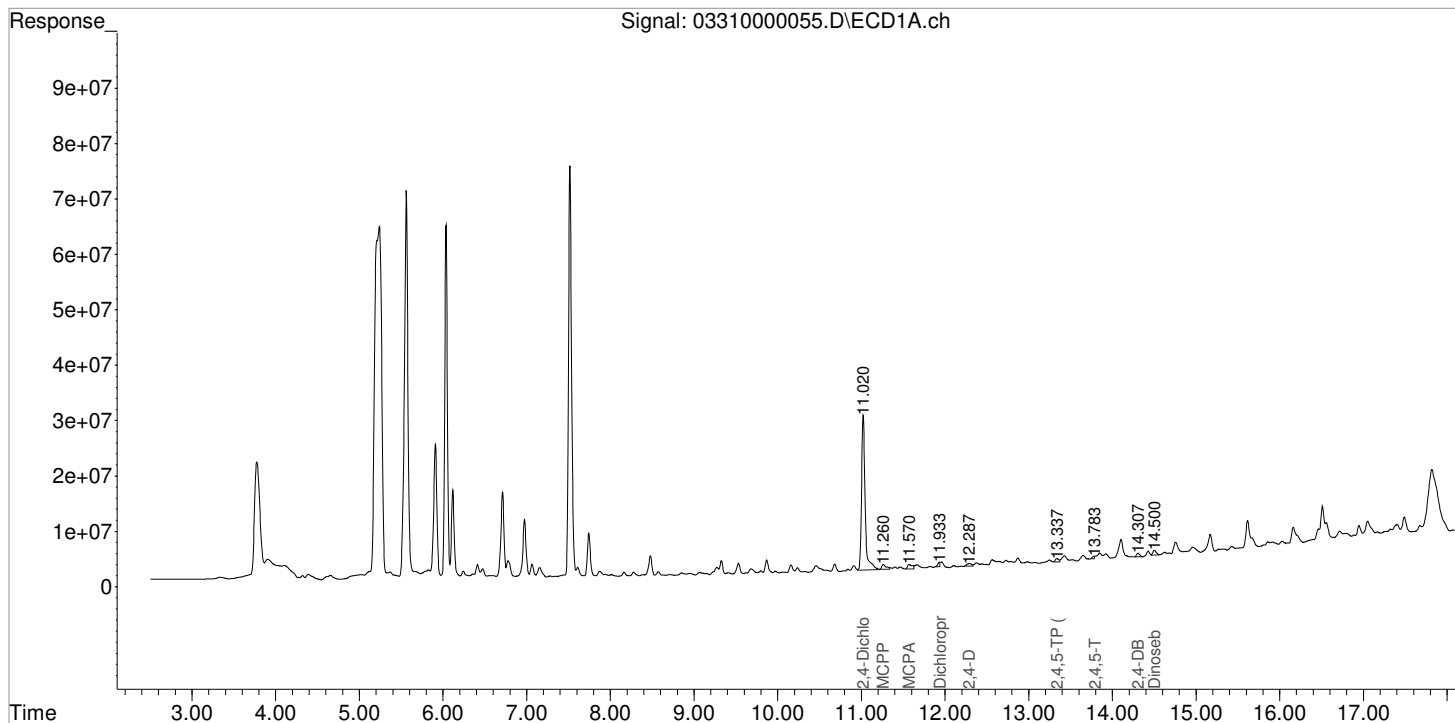
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\03310000055.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01-Apr-2021, 06:11:59
 Sample : K2102809-018
 Misc :
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 11:24:12 2021
 Quant Results File: 031721_8151.RES

Vial: 50
 Operator: JTC
 Inst : GCI
 Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/05/21
2nd SW 04/05/21

Data File: J:\GC34\DATA\033121\03310000056.D\
Lab ID: K2102809-019
RunType: N/A
Matrix: Soil

Date Acquired: 4/1/21 06:36:00
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/05/21
2nd *AW* 04/05/21

Data File: J:\GC34\DATA\033121\03310000056.D\	Instrument: K-GC-34
Acqu Date: 4/1/21 06:36:00	Vial: 31
Run Type: N/A	Dilution: 1
Lab ID: K2102809-019	Raw Units: ppb

Bottle ID: K2102809-019.01	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/16/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot: 376465	Report Group: K2102809
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 3/24/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	11.02	9.49 ^{+0.01}	80768855	28747612	78.394	76.761	78	77	77	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	0.00	0.00	0	0	0.000	0.000	0U	0U	3.1 U	Y
2,4-D	0.00	10.93 ^{-0.01}	0	1557865	0.000	2.107	0U	4.4U	9.7 U	Y

Prep Amount: 31.939 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 74.70

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\GC34\DATA\033121\03310000056.D Vial: 51
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01-Apr-2021, 06:36:00 Operator: JTC
 Sample : K2102809-019 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 11:24:15 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.020	9.487	80768855	28747612	78.394	76.761
Target Compounds						
1) m Dalapon	5.680	4.833	2622076	89453	2.681	0.188 #
3) m Dicamba	0.000	9.640f	0	251216	N.D.	0.209 #
4) m MCPP	0.000	0.000	0	0	N.D.	N.D.
5) m MCPA	11.570	10.267f	2669796	940509	391.014	267.051 #
6) m Dichloroprop	0.000	0.000	0	0	N.D.	N.D.
7) m 2,4-D	0.000	10.933	0	1557865	N.D.	2.107 #
8) m 2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.
9) m 2,4,5-T	0.000	12.050	0	345810	N.D.	0.300 #
10) m 2,4-DB	0.000	12.613f	0	3202374	N.D.	21.427 #
11) m Dinoseb	14.497	12.390f	5062152	488173	1.956	0.529 #

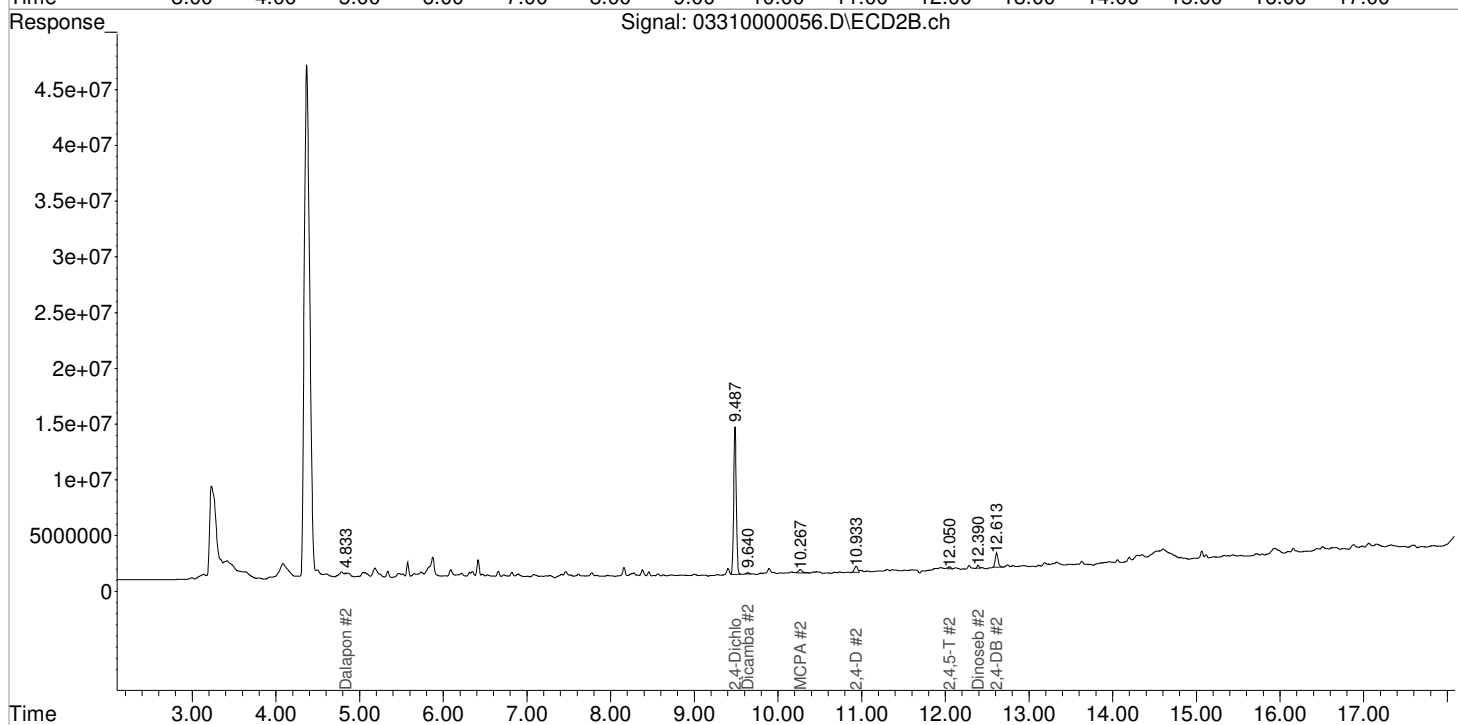
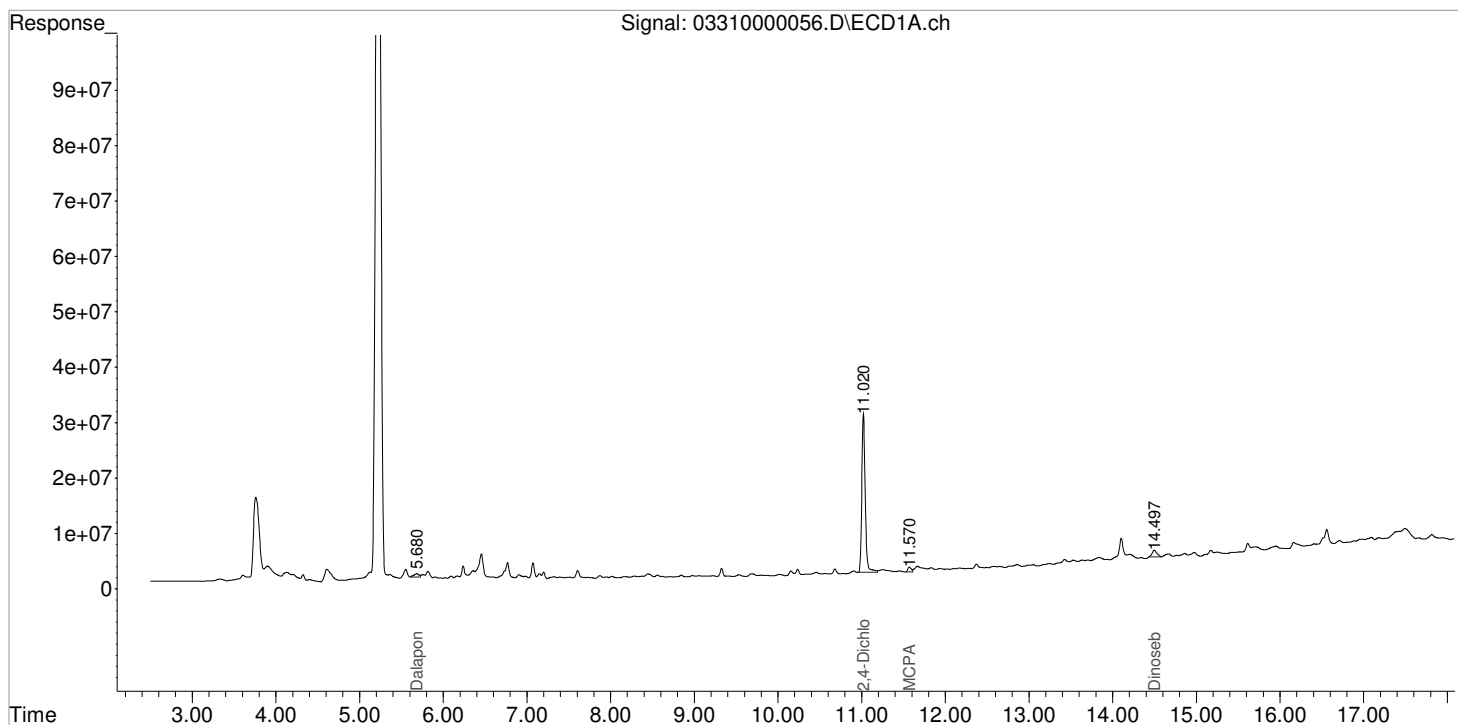
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\03310000056.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01-Apr-2021, 06:36:00
Sample : K2102809-019
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 11:24:15 2021
Quant Results File: 031721_8151.RES

Vial: 51
Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/05/21
2nd SW 04/05/21

Data File: J:\GC34\DATA\033121\03310000057.D\
Lab ID: K2102809-020
RunType: N/A
Matrix: Soil

Date Acquired: 4/1/21 07:00:02
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/05/21
2nd *AW* 04/05/21

Data File: J:\GC34\DATA\033121\03310000057.D\	Instrument: K-GC-34
Acqu Date: 4/1/21 07:00:02	Vial: 32
Run Type: N/A	Dilution: 1
Lab ID: K2102809-020	Raw Units: ppb

Bottle ID: K2102809-020.01	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/16/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot: 376465	Report Group: K2102809
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 3/24/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	11.02	9.49 ^{+0.01}	49453285	17925852	47.999	47.865	48	48	48	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	0.00	0.00	0	0	0.000	0.000	0U	0U	3.8 U	Y
2,4-D	0.00	10.93 ^{-0.01}	0	818824	0.000	1.108	0U	2.9U	13 U	Y

Prep Amount: 30.111 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 63.40

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\GC34\DATA\033121\03310000057.D Vial: 52
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01-Apr-2021, 07:00:02 Operator: JTC
 Sample : K2102809-020 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 11:24:18 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.020	9.487	49453285	17925852	47.999	47.865
Target Compounds						
1) m Dalapon	5.693	4.843	2146437	17508	2.195	0.037 #
3) m Dicamba	0.000	9.640f	0	227035	N.D.	0.189 #
4) m MCPP	11.270f	0.000	632877	0	139.080	N.D. #
5) m MCPA	11.570	10.267f	1814260	661898	265.713	187.941 #
6) m Dichloroprop	0.000	0.000	0	0	N.D.	N.D.
7) m 2,4-D	0.000	10.933	0	818824	N.D.	1.108 #
8) m 2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.
9) m 2,4,5-T	0.000	12.047	0	230169	N.D.	0.200 #
10) m 2,4-DB	0.000	12.613f	0	1812049	N.D.	12.124 #
11) m Dinoseb	14.497	12.390f	1086173	545516	0.420	0.591 #

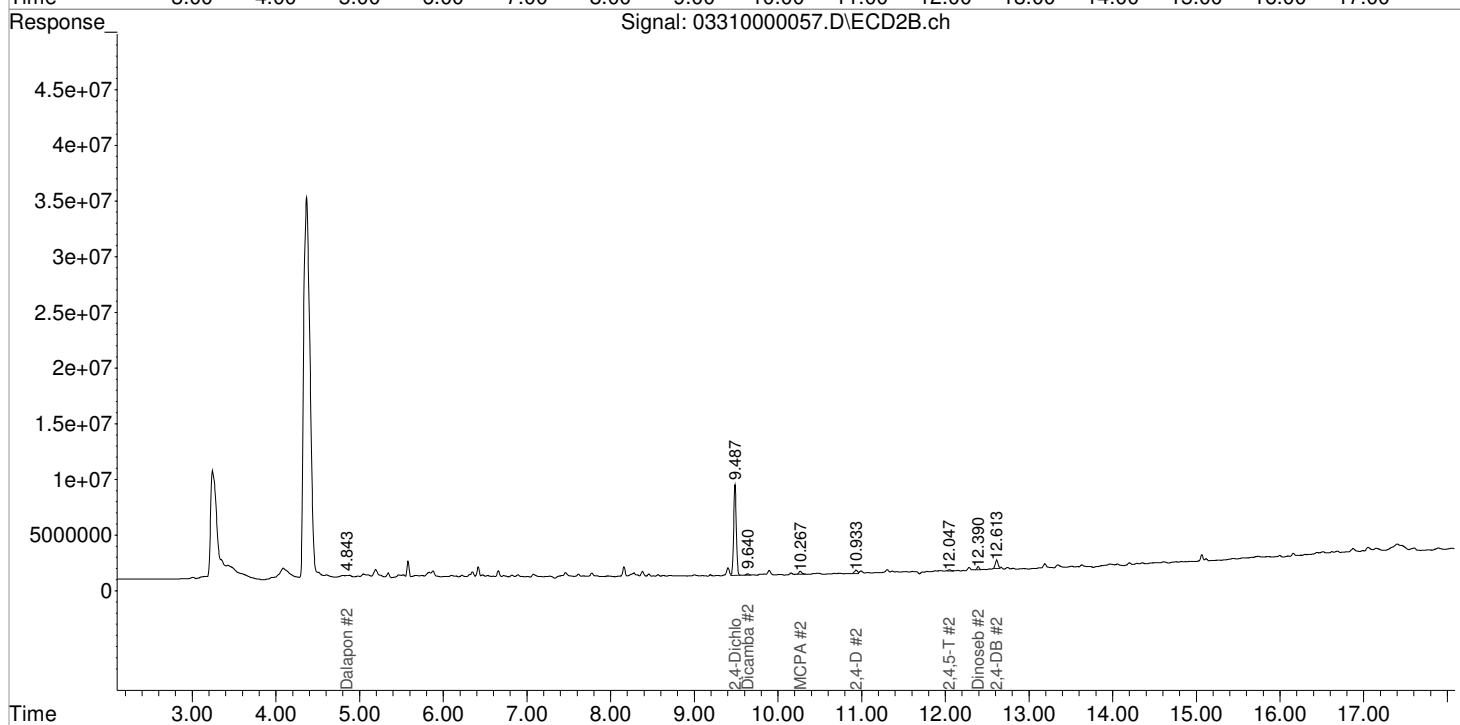
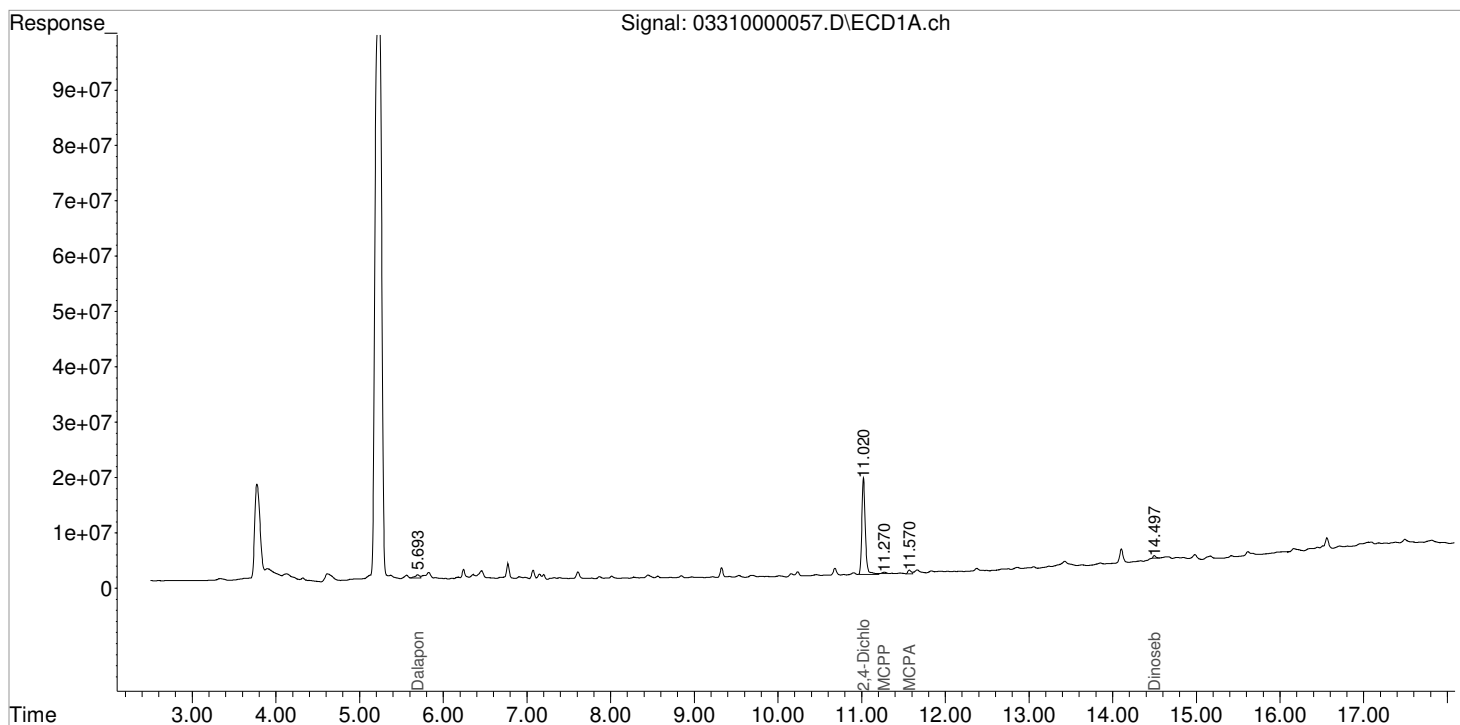
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\03310000057.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01-Apr-2021, 07:00:02
Sample : K2102809-020
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 11:24:18 2021
Quant Results File: 031721_8151.RES

Vial: 52
Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/01/21
2nd SW 04/01/21

Data File: J:\GC34\DATA\033121\03310000008.D\
Lab ID: KQ2104449-04
RunType: MB
Matrix: Soil

Date Acquired: 3/31/21 11:11:46
Batch ID: 718306
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/01/21
2nd *SW* 04/01/21

Data File: J:\GC34\DATA\033121\0331000008.D\	Instrument: K-GC-34
Acqu Date: 3/31/21 11:11:46	Vial: 17
Run Type: MB	Dilution: 1
Lab ID: KQ2104449-04	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/11/21	Receive Date: 3/19/21

Analysis Lot: 718306	Prep Lot: 376223	Report Group: KQ2104449
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 3/24/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	11.02	9.49	62274271	22464067	60.443	59.983	60	60	60	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-T	0.00	12.05 ^{-0.01}	0	203290	0.000	0.177	0U	0.27U	4.0 U	Y
2,4,5-TP (Silvex)	0.00	0.00	0	0	0.000	0.000	0U	0U	2.4 U	Y
2,4-D	0.00	10.94 ^{-0.01}	0	285390	0.000	0.386	0U	0.60U	7.7 U	Y
2,4-DB	0.00	12.62 ^{+0.07}	0	993619	0.000	6.648	0U	10J	5.4 U	Y
Dalapon	5.67 ^{-0.02}	4.88 ^{+0.04}	3789679	177669	3.875	0.374	6.0J	0.58U	5.5 U	Y
Dicamba	0.00	9.63 ^{-0.04}	0	168053	0.000	0.140	0U	0.22U	4.3 U	Y
Dichlorprop	0.00	10.74 ^{-0.02}	0	71998	0.000	0.207	0U	0.32U	3.4 U	Y
Dinoseb	14.49 ^{+0.01}	12.39 ^{-0.05}	676524	202583	0.261	0.220	0.41U	0.34U	2.7 U	Y
MCPA	11.57 ^{+0.01}	10.27 ^{-0.04}	2566334	670767	375.861	190.460	580J	300U	320 U	Y
MCPP	0.00	0.00	0	0	0.000	0.000	0U	0U	460 U	Y

Prep Amount: 32.1880 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\GC34\DATA\033121\03310000008.D Vial: 9
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31-Mar-2021, 11:11:46 Operator: JTC
 Sample : KQ2104449-04 MB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 10:46:43 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.023	9.487	62274271	22464067	60.443	59.983
Target Compounds						
1) m Dalapon	5.670	4.883f	3789679	177669	3.875	0.374 #
3) m Dicamba	0.000	9.633f	0	168053	N.D.	0.140 #
4) m MCPP	0.000	0.000	0	0	N.D.	N.D.
5) m MCPA	11.570	10.267f	2566334	670767	375.861	190.460 #
6) m Dichloroprop	0.000	10.740	0	71998	N.D.	0.207 #
7) m 2,4-D	0.000	10.937	0	285390	N.D.	0.386 #
8) m 2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.
9) m 2,4,5-T	0.000	12.053	0	203290	N.D.	0.177 #
10) m 2,4-DB	0.000	12.617f	0	993619	N.D.	6.648 #
11) m Dinoseb	14.493	12.390f	676524	202583	0.261	0.220

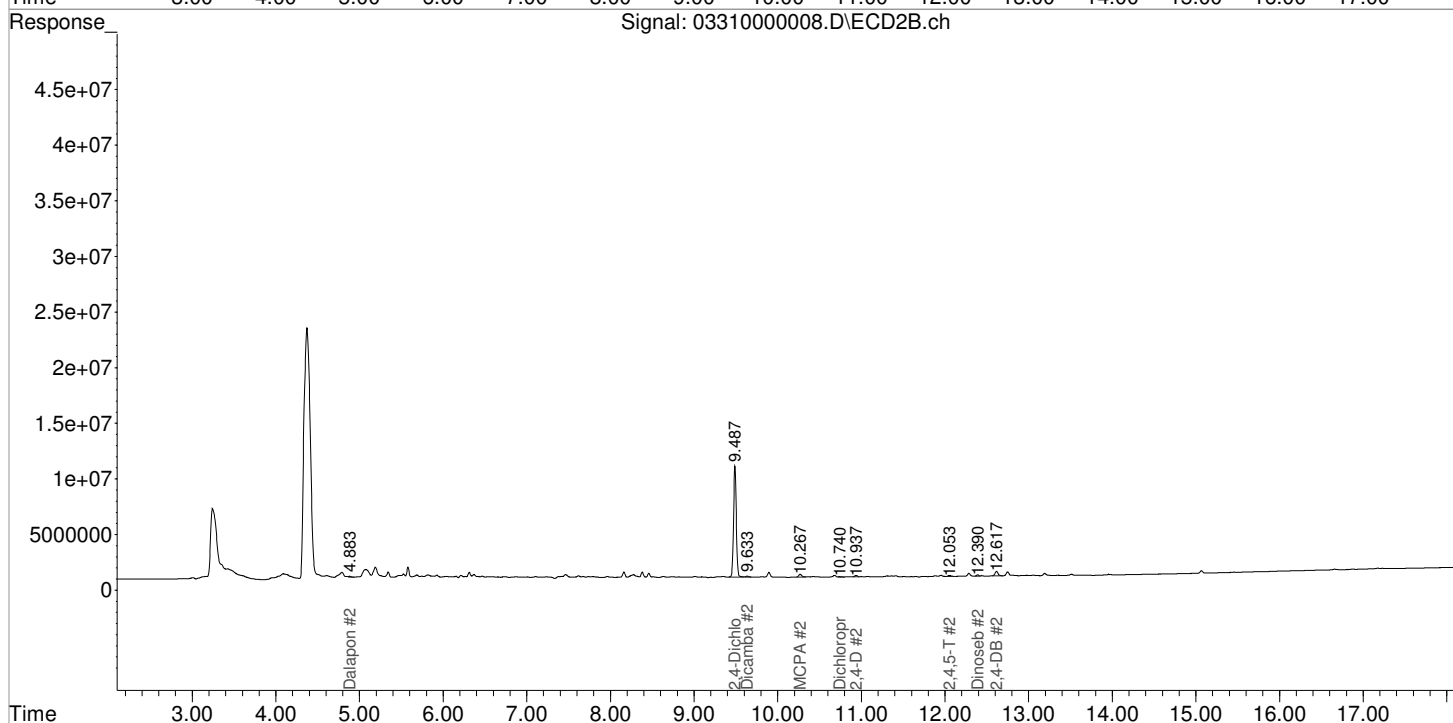
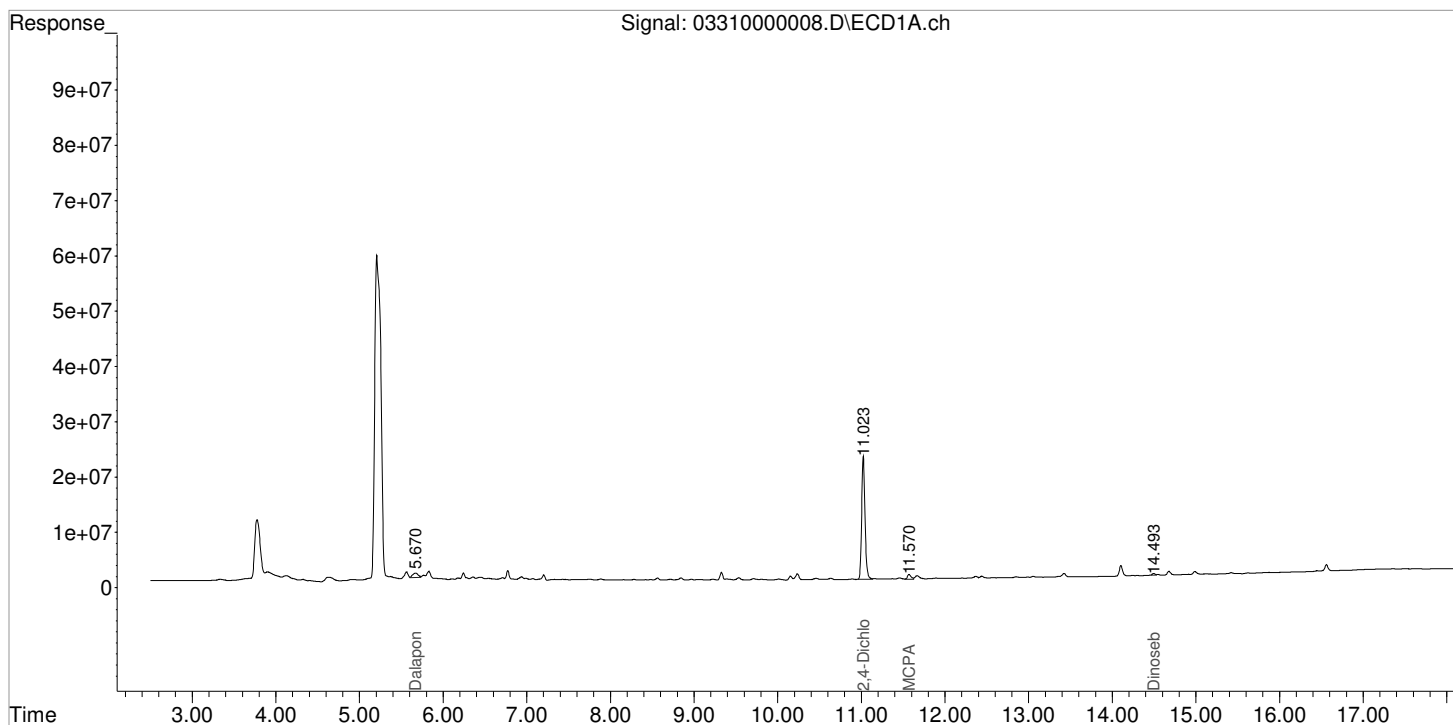
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\0331000008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 11:11:46
Sample : KQ2104449-04 MB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 10:46:43 2021
Quant Results File: 031721_8151.RES

Vial: 9
Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/05/21
2nd SW 04/05/21

Data File: J:\GC34\DATA\033121\03310000036.D\
Lab ID: KQ2104773-04
RunType: MB
Matrix: Soil

Date Acquired: 3/31/21 22:30:57
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st JTC 04/05/21
2nd SW 04/05/21

Data File: J:\GC34\DATA\033121\03310000036.D\	Instrument: K-GC-34
Acqu Date: 3/31/21 22:30:57	Vial: 34
Run Type: MB	Dilution: 1
Lab ID: KQ2104773-04	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/16/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot: 376465	Report Group: KQ2104773
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 3/24/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	11.02	9.49 ^{+0.01}	66776456	28533109	64.813	76.188	65	76	65	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	0.00	0.00	0	0	0.000	0.000	0U	0U	2.4 U	Y
2,4-D	0.00	10.93 ^{-0.01}	0	327448	0.000	0.443	0U	0.67U	7.7 U	Y

Prep Amount: 32.9460 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 4/5/21 11:38

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Data File : J:\GC34\DATA\033121\03310000036.D Vial: 33
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31-Mar-2021, 22:30:57 Operator: JTC
 Sample : KQ2104773-04 MB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 11:23:21 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	11.023	9.487	66776456	28533109	64.813	76.188
Target Compounds						
1) m Dalapon	5.693	4.840	1838023	65262	1.879	0.138 #
3) m Dicamba	0.000	9.637f	0	194549	N.D.	0.162 #
4) m MCPP	0.000	0.000	0	0	N.D.	N.D.
5) m MCPA	11.570	10.267f	3984761	680577	583.601	193.245 #
6) m Dichloroprop	0.000	10.737	0	152193	N.D.	0.437 #
7) m 2,4-D	0.000	10.933	0	327448	N.D.	0.443 #
8) m 2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.
9) m 2,4,5-T	0.000	12.053	0	291646	N.D.	0.253 #
10) m 2,4-DB	0.000	12.613f	0	2454988	N.D.	16.426 #
11) m Dinoseb	14.493	12.440	634974	142698	0.245	0.155 #

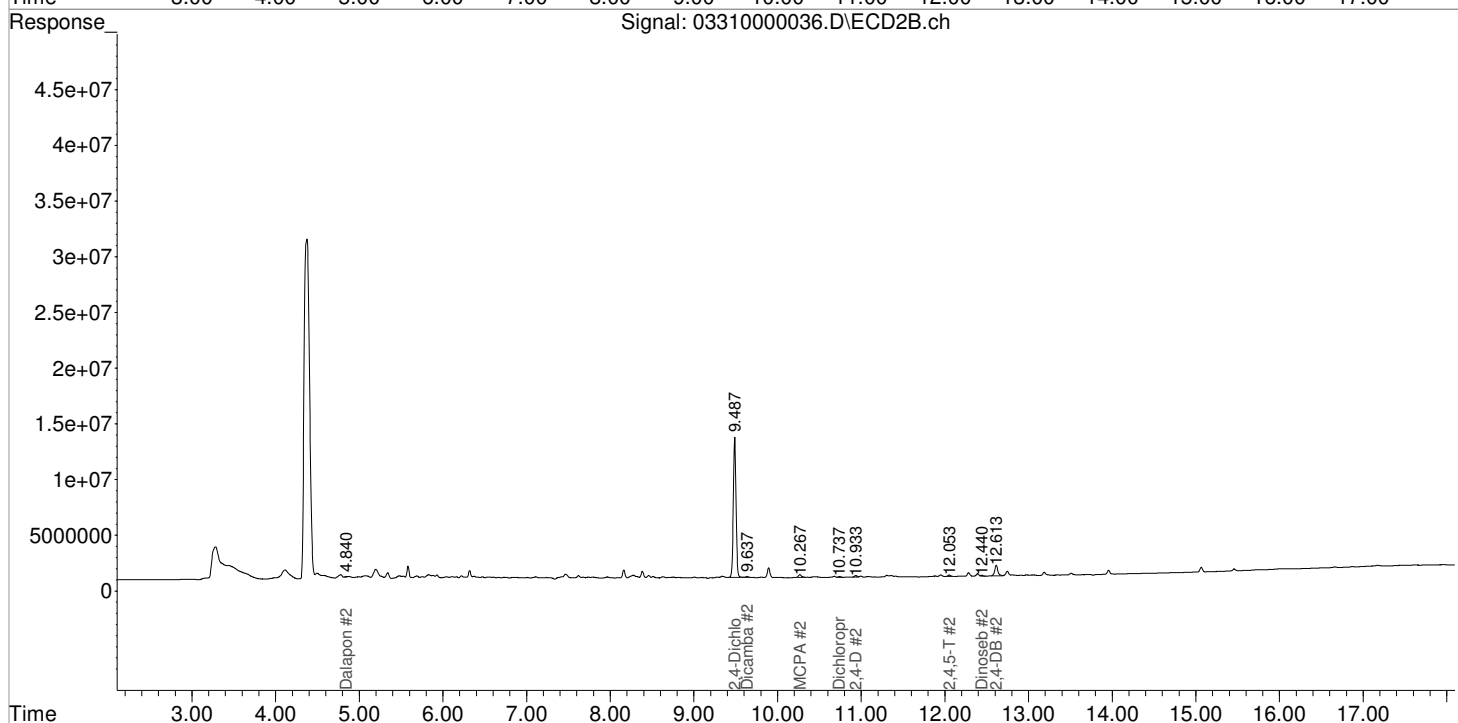
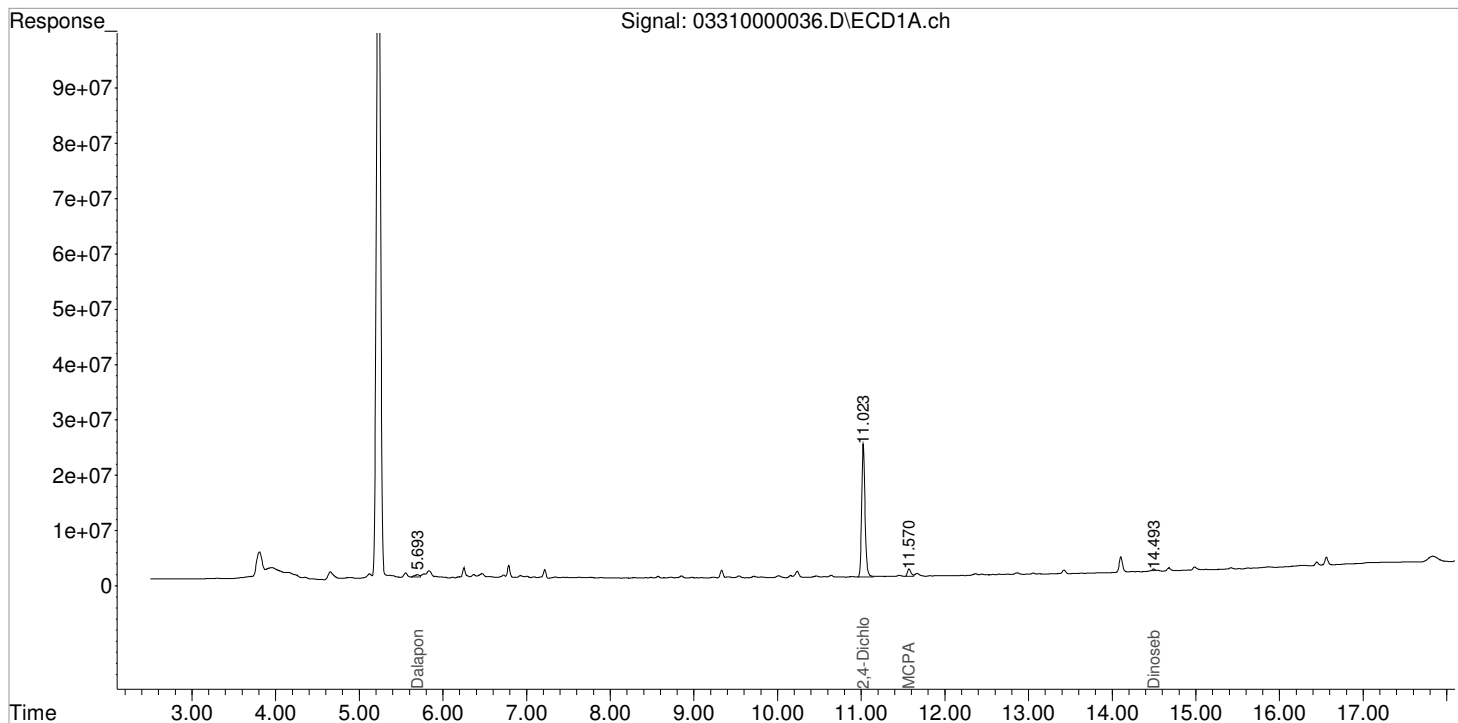
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\03310000036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 22:30:57
Sample : KQ2104773-04 MB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 11:23:21 2021
Quant Results File: 031721_8151.RES

Vial: 33
Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/01/21
2nd SW 04/01/21

Data File: J:\GC34\DATA\033121\0331000009.D\
Lab ID: KQ2104449-03
RunType: LCS
Matrix: Soil

Date Acquired: 3/31/21 11:36:20
Batch ID: 718306
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/01/21
2nd *SW* 04/01/21

Data File: J:\GC34\DATA\033121\0331000009.D\	Instrument: K-GC-34
Acqu Date: 3/31/21 11:36:20	Vial: 16
Run Type: LCS	Dilution: 1
Lab ID: KQ2104449-03	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/11/21	Receive Date: 3/19/21

Analysis Lot: 718306	Prep Lot: 376223	Report Group: KQ2104449
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 3/24/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	11.02	9.49	65999694	26365973	64.059	70.402	64	70	64	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-T	13.73	12.06	228790534	86179482	67.850	74.853	113	125	113	Y
2,4,5-TP (Silvex)	13.35	11.51	284865628	101065324	66.398	69.089	111	115	111	Y
2,4-D	12.28	10.95	66559445	46147767	68.059	62.424	113	104	104	Y
2,4-DB	14.33	12.55	28306377	15302740	64.858	102.391	108	171	108	P Y
Dalapon	5.69	4.84	63705341	32784556	65.136	69.077	109	115	109	Y
Dicamba	11.15	9.67	229124325	84526901	69.696	70.391	116	117	116	Y
Dichlorprop	11.98	10.76	60794182	22860311	63.897	65.671	106	109	106	Y
Dinoseb	14.48	12.44	109015564	44643561	42.126	48.375	70.2	80.6	70.2	Y
MCPA	11.56	10.31	55556318	23482169	8136.681	6667.604	13600	11100	11100	Y
MCPP	11.31	10.02	30653262	16273745	6736.312	7044.433	11200	11700	11200	Y

Prep Amount: 30.00 g	Dilution: 1
Prep Final Amount: 50.00 mL	Basis Factor: 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\GC34\DATA\033121\0331000009.D Vial: 10
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31-Mar-2021, 11:36:20 Operator: JTC
 Sample : KQ2104449-03 LCS Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 10:46:46 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.023	9.487	65999694	26365973	64.059	70.402
Target Compounds						
1) m Dalapon	5.693	4.843	63705341	32784556	65.136	69.077
3) m Dicamba	11.153	9.670	229.1E6	84526901	69.696	70.391
4) m MCPP	11.307	10.020	30653262	16273745	6736.312	7044.433
5) m MCPA	11.560	10.313	55556318	23482169	8136.681	6667.604
6) m Dichloroprop	11.983	10.757	60794182	22860311	63.897	65.671
7) m 2,4-D	12.283	10.950	66559445	46147767	68.059	62.424
8) m 2,4,5-TP ...	13.350	11.513	284.9E6	101.1E6	66.398	69.089
9) m 2,4,5-T	13.730	12.057	228.8E6	86179482	67.850	74.853
10) m 2,4-DB	14.330	12.550	28306377	15302740	64.858	102.391 #
11) m Dinoseb	14.480	12.443	109.0E6	44643561	42.126	48.375

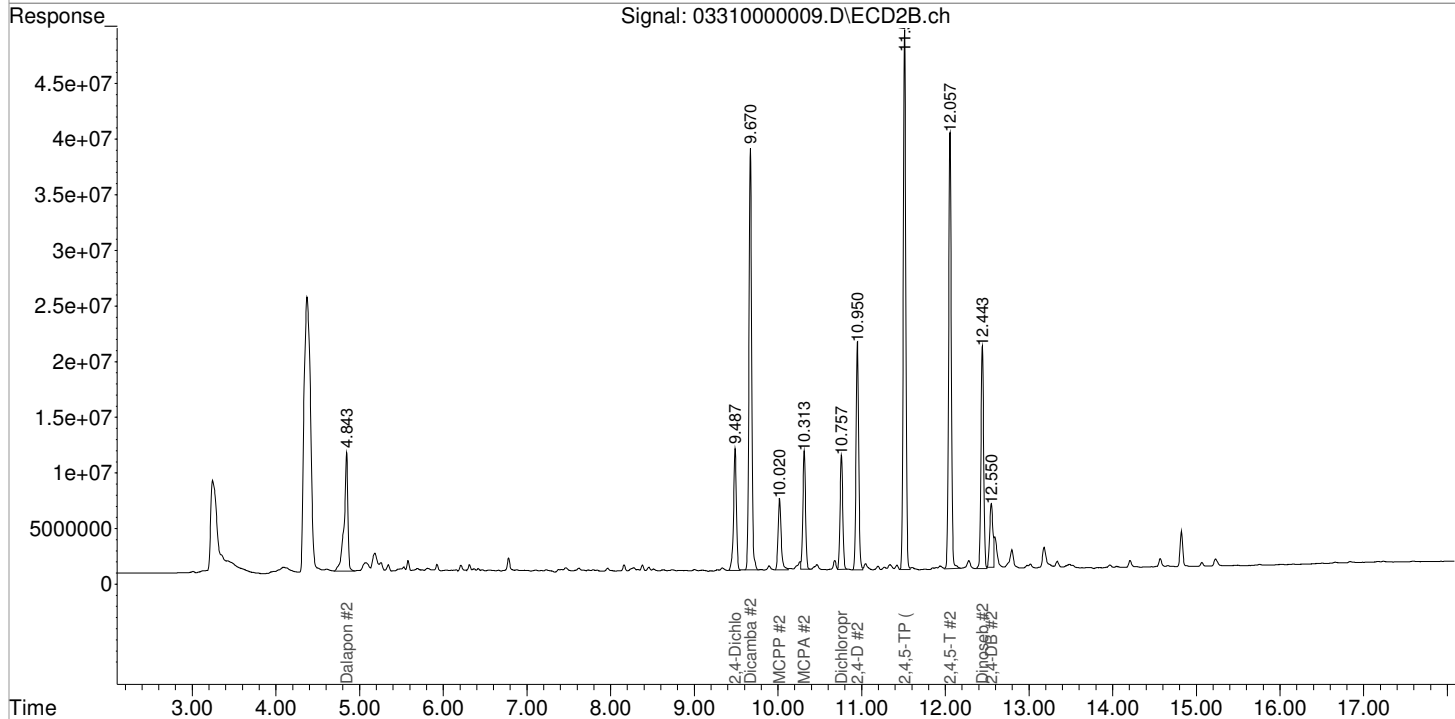
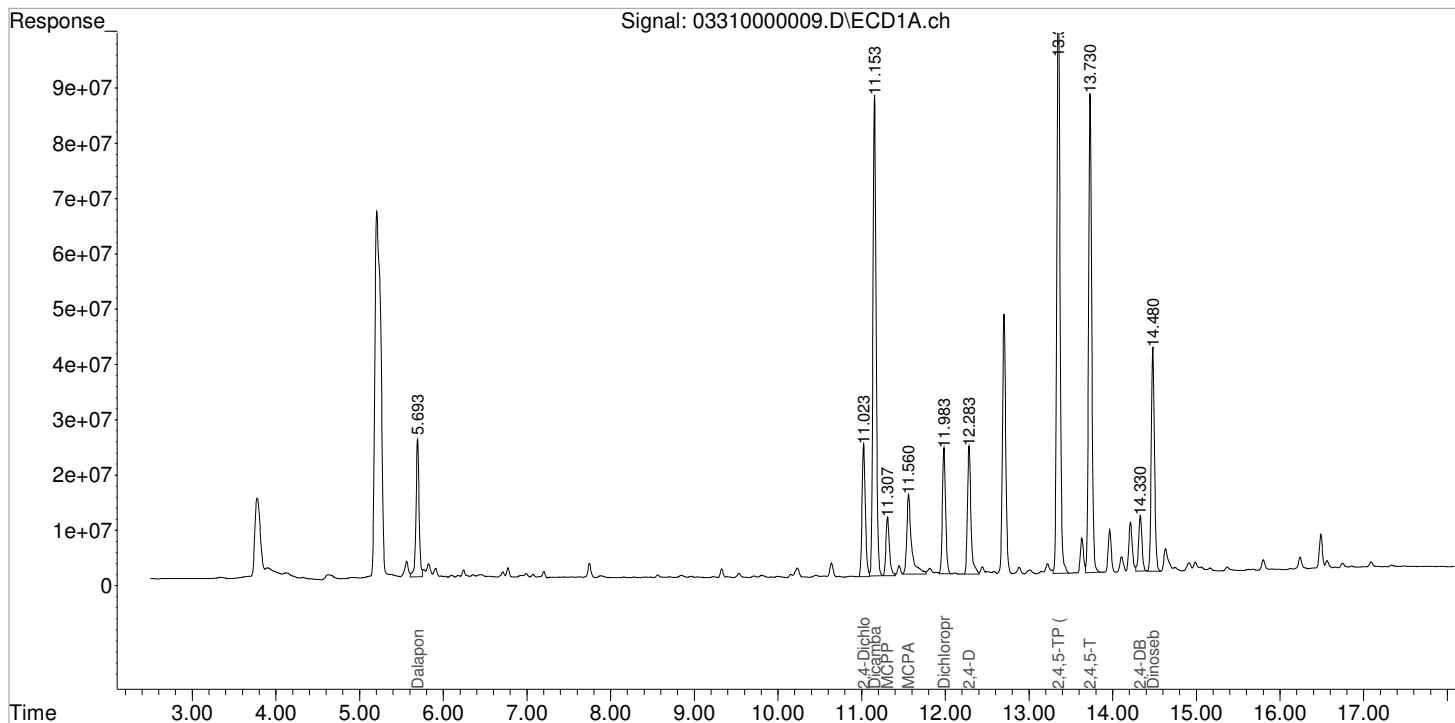
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\0331000009.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31-Mar-2021, 11:36:20
 Sample : KQ2104449-03 LCS
 Misc :
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 10:46:46 2021
 Quant Results File: 031721_8151.RES

Vial: 10
 Operator: JTC
 Inst : GCI
 Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/05/21
2nd SW 04/05/21

Data File: J:\GC34\DATA\033121\03310000037.D\
Lab ID: KQ2104773-03
RunType: LCS
Matrix: Soil

Date Acquired: 3/31/21 22:55:09
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/05/21
2nd *SW* 04/05/21

Data File: J:\GC34\DATA\033121\03310000037.D\	Instrument: K-GC-34
Acqu Date: 3/31/21 22:55:09	Vial: 33
Run Type: LCS	Dilution: 1
Lab ID: KQ2104773-03	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/16/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot: 376465	Report Group: KQ2104773
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 3/24/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	11.02	9.49 ^{+0.01}	76211252	29456400	73.970	78.654	74	79	74	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	13.35	11.51	319599993	123926598	74.494	84.717	124	141	124	Y
2,4-D	12.28	10.95 ^{+0.01}	73108600	55813163	74.756	75.498	125	126	125	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 4/5/21 11:38

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Data File : J:\GC34\DATA\033121\03310000037.D Vial: 34
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31-Mar-2021, 22:55:09 Operator: JTC
 Sample : KQ2104773-03 LCS Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 11:23:24 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.020	9.487	76211252	29456400	73.970	78.654
Target Compounds						
1) m Dalapon	5.680	4.830	81104849	42871588	82.927	90.331
3) m Dicamba	11.150	9.667	265.9E6	99909421	80.886	83.201
4) m MCPP	11.307	10.017	34246429	18225482	7525.940	7999.591
5) m MCPA	11.557	10.310	55639595	27642998	8148.877	7849.044
6) m Dichloroprop	11.980	10.757	68714277	27862247	72.221	80.040
7) m 2,4-D	12.280	10.947	73108600	55813163	74.756	75.498
8) m 2,4,5-TP ...	13.347	11.510	319.6E6	123.9E6	74.494	84.717
9) m 2,4,5-T	13.727	12.053	258.4E6	109.5E6	76.631	95.115
10) m 2,4-DB	14.327	12.543	32148529	21860237	73.661	146.267 #
11) m Dinoseb	14.477	12.440	110.3E6	49588806	42.638	53.733 #

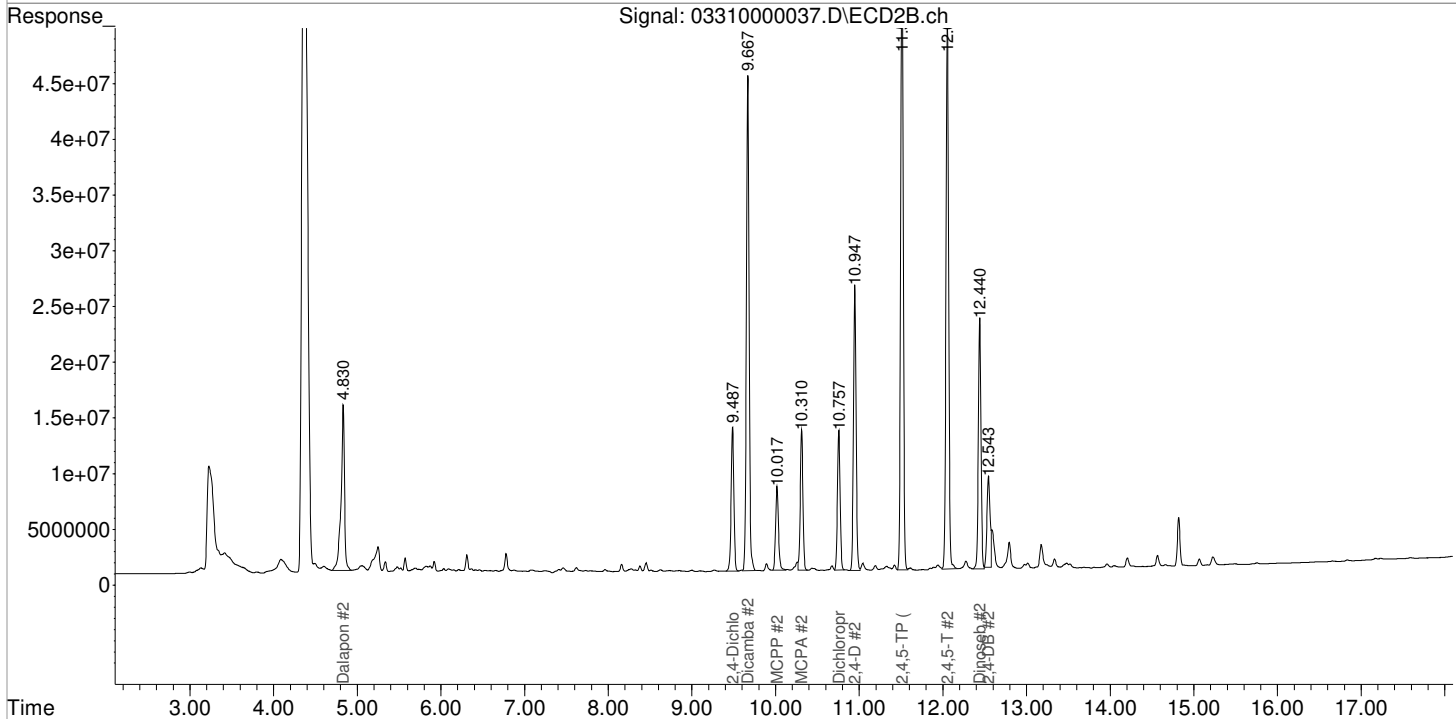
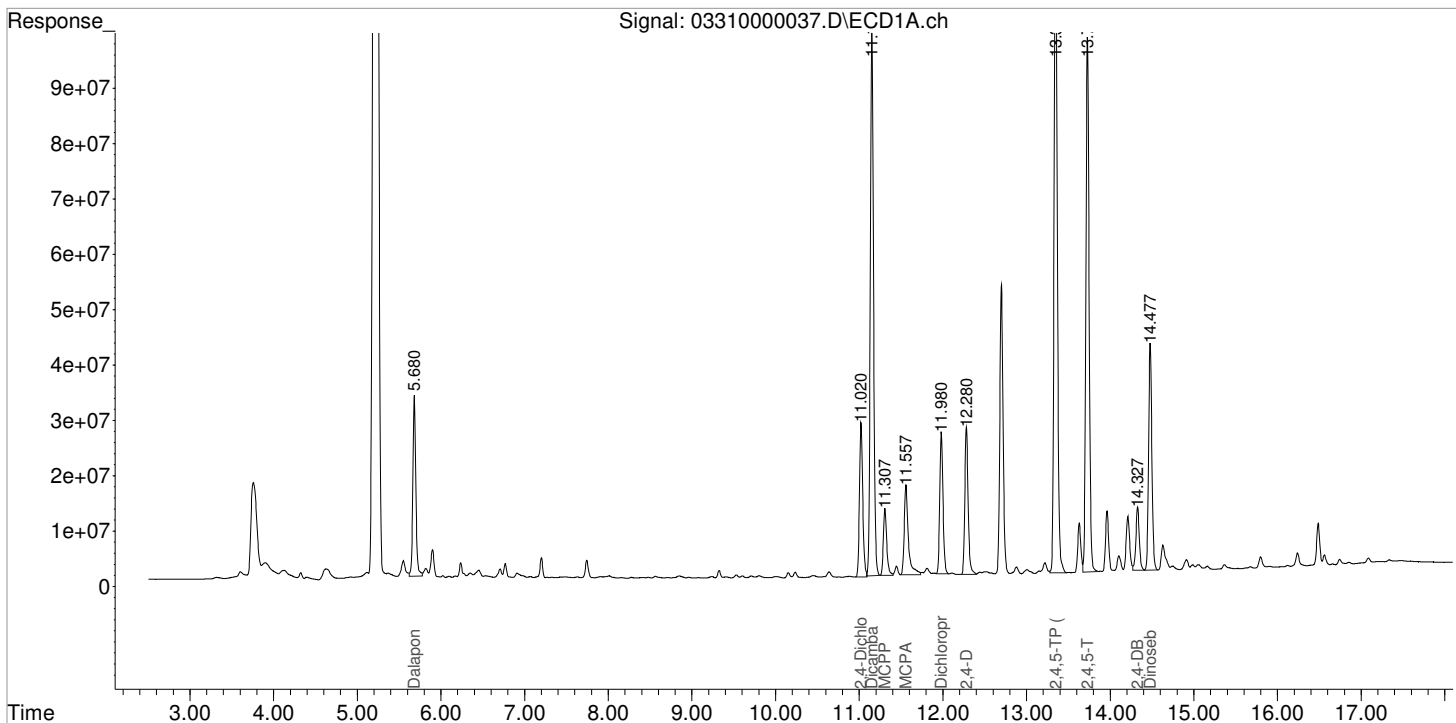
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\03310000037.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31-Mar-2021, 22:55:09
 Sample : KQ2104773-03 LCS
 Misc :
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 11:23:24 2021
 Quant Results File: 031721_8151.RES

Vial: 34
 Operator: JTC
 Inst : GCI
 Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/05/21
2nd SW 04/05/21

Data File: J:\GC34\DATA\033121\03310000038.D\
Lab ID: KQ2104773-01
RunType: MS
Matrix: Soil

Date Acquired: 3/31/21 23:19:32
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/05/21
2nd *SW* 04/05/21

Data File: J:\GC34\DATA\033121\03310000038.D\	Instrument: K-GC-34
Acqu Date: 3/31/21 23:19:32	Vial: 23
Run Type: MS	Dilution: 1
Lab ID: KQ2104773-01	Raw Units: ppb

Bottle ID: K2102809-008.01	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/17/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot: 376465	Report Group: KQ2104773
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 3/24/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	11.02	9.49 ^{+0.01}	43075268	15912964	41.809	42.490	42	42	42	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	13.35	11.51	202766681	73820425	47.262	50.464	93.7	100	93.7	Y
2,4-D	12.28	10.94	45290390	34056094	46.311	46.067	91.9	91.4	91.4	Y

Prep Amount: 30.520 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 82.60

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File : J:\GC34\DATA\033121\03310000038.D Vial: 35
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31-Mar-2021, 23:19:32 Operator: JTC
 Sample : K2102809-008 MS Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 11:23:27 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.020	9.487	43075268	15912964	41.809	42.490
Target Compounds						
1) m Dalapon	5.687	4.840	40853941	16697813	41.772	35.182
3) m Dicamba	11.150	9.667	155.8E6	57400484	47.379	47.801
4) m MCPP	11.303	10.017	21020501	11633047	4619.432	4790.998
5) m MCPA	11.557	10.310	33933879	16480034	4969.896	4679.395
6) m Dichloroprop	11.980	10.753	42358510	17098774	44.520	49.120
7) m 2,4-D	12.280	10.943	45290390	34056094	46.311	46.067
8) m 2,4,5-TP ...	13.347	11.510	202.8E6	73820425	47.262	50.464
9) m 2,4,5-T	13.727	12.053	162.7E6	67378143	48.264	58.523
10) m 2,4-DB	14.327	12.543	18527877	12655416	42.452	84.678 #
11) m Dinoseb	14.477	12.440	66594745	29354609	25.734	31.808

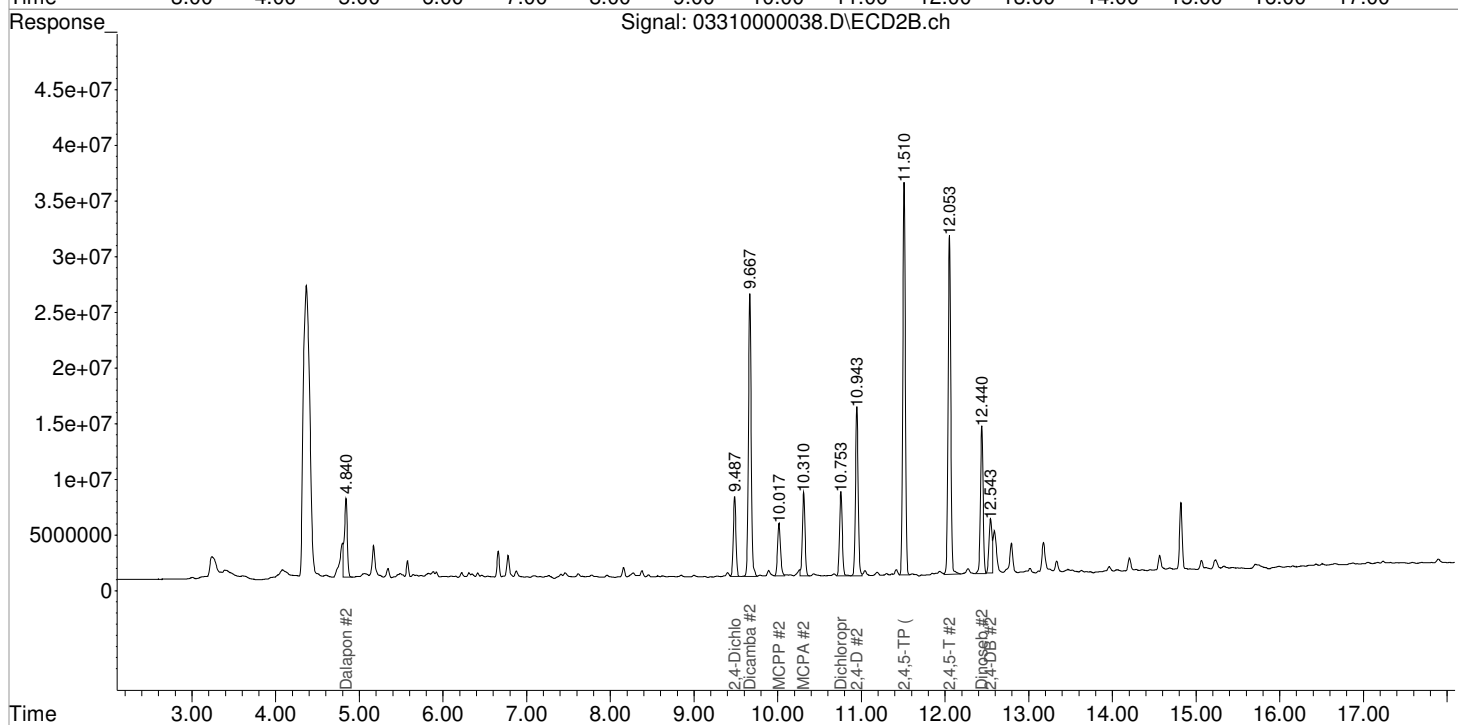
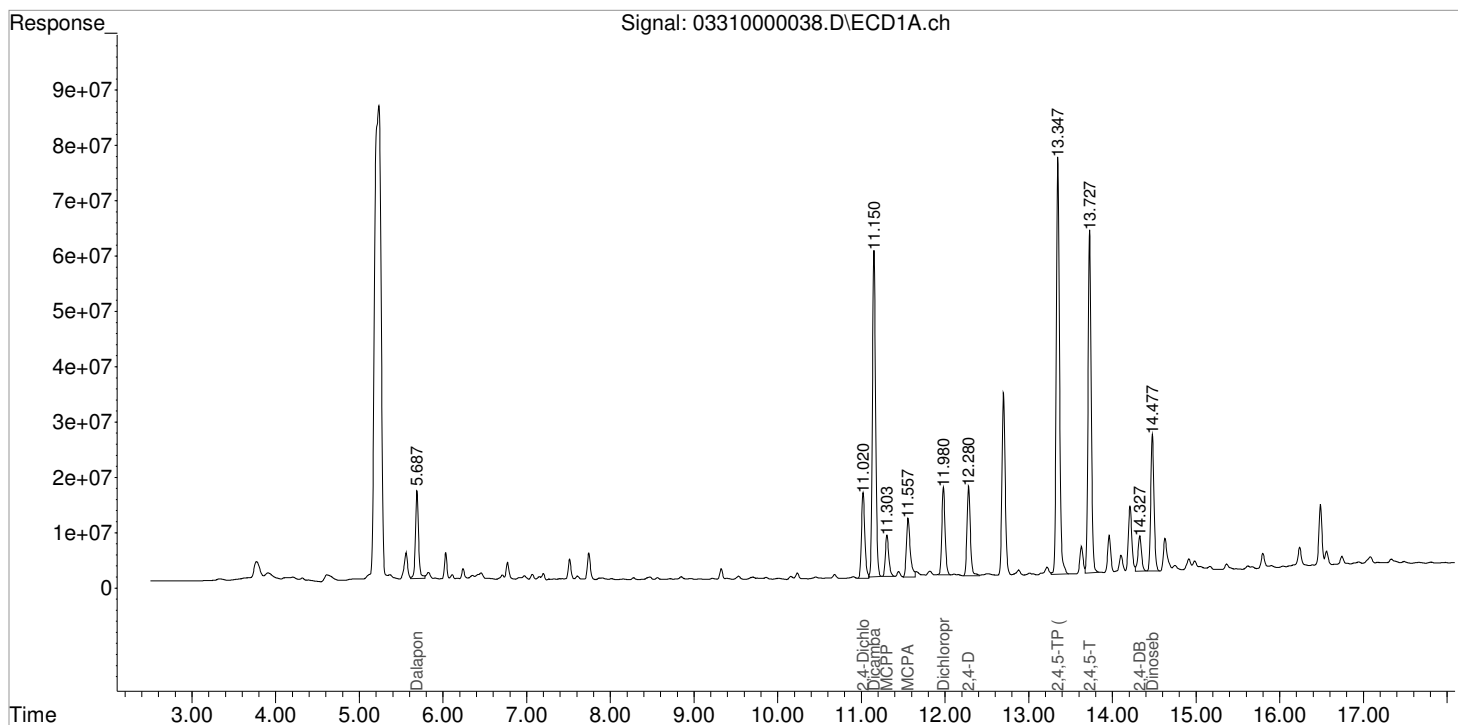
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\03310000038.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31-Mar-2021, 23:19:32
 Sample : K2102809-008 MS
 Misc :
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 11:23:27 2021
 Quant Results File: 031721_8151.RES

Vial: 35
 Operator: JTC
 Inst : GCI
 Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/05/21
2nd SW 04/05/21

Data File: J:\GC34\DATA\033121\03310000039.D\
Lab ID: KQ2104773-02
RunType: DMS
Matrix: Soil

Date Acquired: 3/31/21 23:43:52
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/05/21
2nd *SW* 04/05/21

Data File: J:\GC34\DATA\033121\03310000039.D\	Instrument: K-GC-34
Acqu Date: 3/31/21 23:43:52	Vial: 24
Run Type: DMS	Dilution: 1
Lab ID: KQ2104773-02	Raw Units: ppb

Bottle ID: K2102809-008.01	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/17/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot: 376465	Report Group: KQ2104773
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 3/24/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	11.02	9.48	84811210	30230658	82.317	80.721	82	81	81	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	13.35	11.51	386948726	139303021	90.191	95.229	174	184	174	Y
2,4-D	12.28	10.95 ^{+0.01}	87449465	62983446	89.420	85.197	173	165	165	Y

Prep Amount: 31.341 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 82.60

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 4/5/21 11:38

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Data File : J:\GC34\DATA\033121\03310000039.D Vial: 36
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31-Mar-2021, 23:43:52 Operator: JTC
 Sample : K2102809-008 DMS Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 11:23:30 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.020	9.483	84811210	30230658	82.317	80.721
Target Compounds						
1) m Dalapon	5.690	4.840	71451975	43582326	73.057	91.828 #
3) m Dicamba	11.150	9.667	296.0E6	107.5E6	90.024	89.535
4) m MCPP	11.303	10.013	37429000	19237992	8225.337	8496.866
5) m MCPA	11.557	10.310	61557770	29051019	9015.643	8248.842
6) m Dichloroprop	11.980	10.753	78815082	32312572	82.838	92.824
7) m 2,4-D	12.280	10.947	87449465	62983446	89.420	85.197
8) m 2,4,5-TP ...	13.347	11.510	386.9E6	139.3E6	90.191	95.229
9) m 2,4,5-T	13.727	12.053	322.4E6	125.0E6	95.598	108.606
10) m 2,4-DB	14.327	12.547	38507841	20159811	88.232	134.890 #
11) m Dinoseb	14.477	12.440	118.2E6	50003739	45.680	54.183

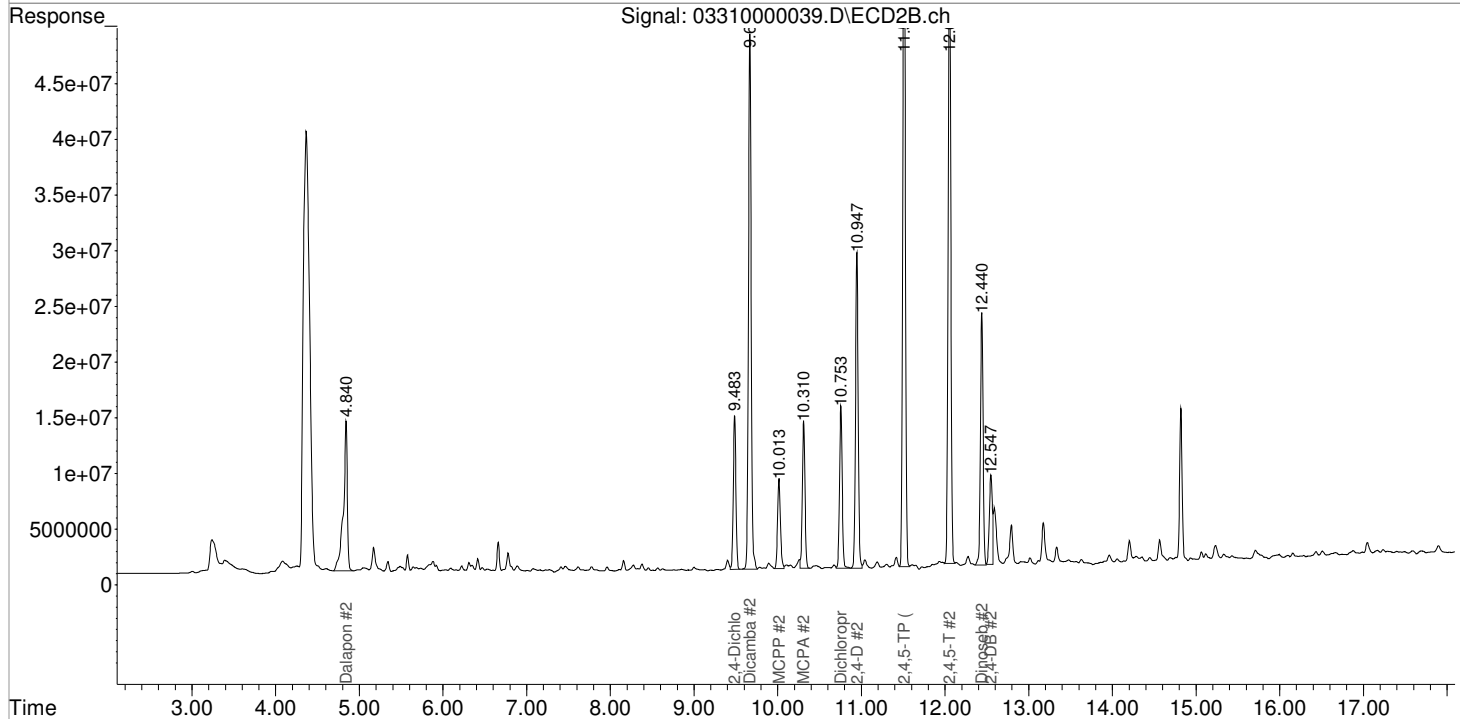
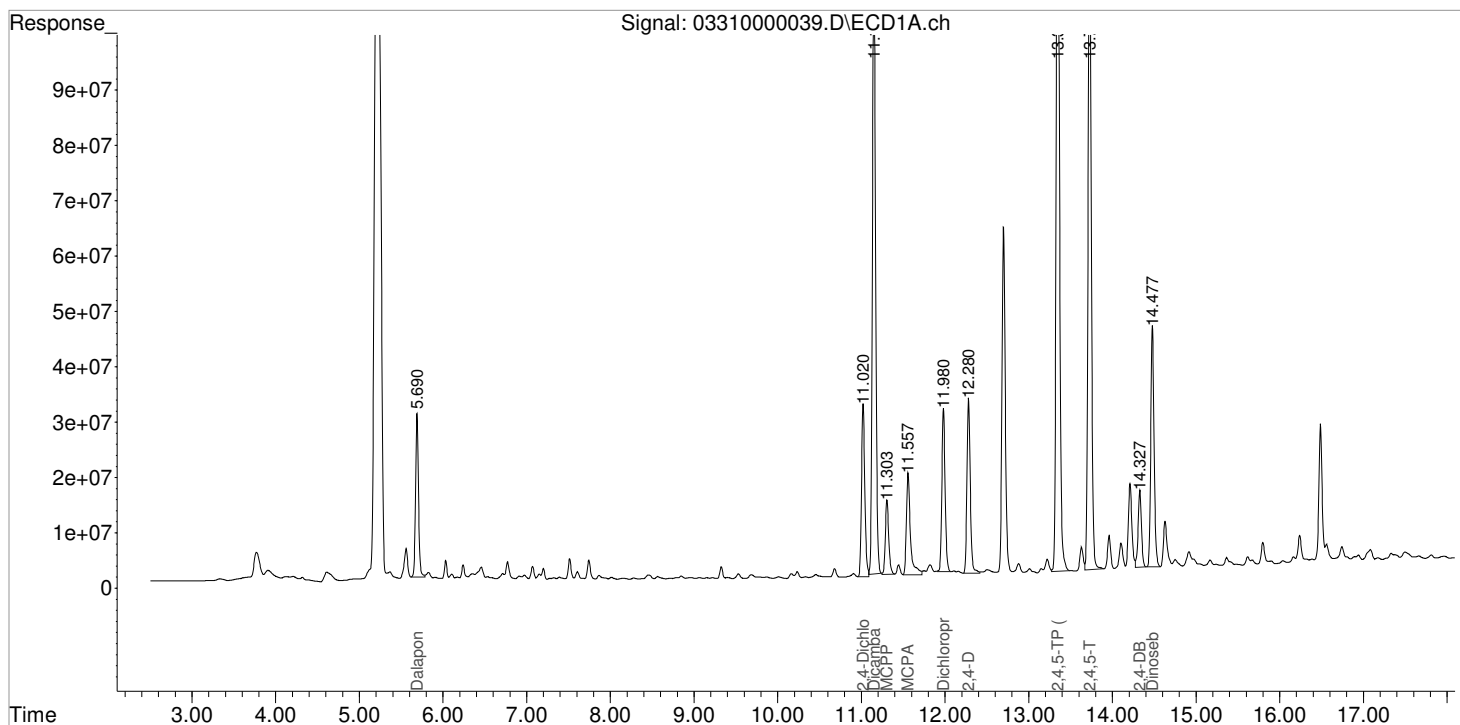
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\03310000039.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 23:43:52
Sample : K2102809-008 DMS
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 11:23:30 2021
Quant Results File: 031721_8151.RES

Vial: 36
Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/01/21
2nd SW 04/01/21

Data File: J:\GC34\DATA\033121\03310000007.D\
Lab ID: KQ2105296-02
RunType: CCB
Matrix: Soil

Date Acquired: 3/31/21 10:47:41
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Surrogates	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/01/21
2nd *AW* 04/01/21

Data File: J:\GC34\DATA\033121\0331000007.D\	Instrument: K-GC-34
Acqu Date: 3/31/21 10:47:41	Vial: 2
Run Type: CCB	Dilution: 1
Lab ID: KQ2105113-02	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/10/21	Receive Date: 3/19/21

Analysis Lot: 718306	Prep Lot:	Report Group: KQ2105113
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	11.04 ^{+0.02}	0.00	173097	0	0.168	0.000				26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-T	0.00	0.00	0	0	0.000	0.000	0U	0U	4.0 U	Y
2,4,5-TP (Silvex)	0.00	0.00	0	0	0.000	0.000	0U	0U	2.4 U	Y
2,4-D	0.00	10.94 ^{-0.01}	0	122155	0.000	0.165	0U	0.28U	7.7 U	Y
2,4-DB	0.00	0.00	0	0	0.000	0.000	0U	0U	5.4 U	Y
Dalapon	0.00	4.89 ^{+0.05}	0	24230	0.000	0.051	0U	0.085U	5.5 U	Y
Dicamba	11.16 ^{+0.01}	0.00	58175	0	0.018	0.000	0.030U	0U	4.3 U	Y
Dichlorprop	0.00	0.00	0	0	0.000	0.000	0U	0U	3.4 U	Y
Dinoseb	0.00	0.00	0	0	0.000	0.000	0U	0U	2.7 U	Y
MCPA	0.00	10.27 ^{-0.04}	0	707391	0.000	200.859	0U	330J	320 U	Y
MCPP	11.33 ^{+0.02}	0.00	85131	0	18.708	0.000	31U	0U	460 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Quantitation Report

1st *JTC* 04/05/21
2nd *AW* 04/05/21

Data File: J:\GC34\DATA\033121\0331000007.D\	Instrument: K-GC-34
Acqu Date: 3/31/21 10:47:41	Vial: 2
Run Type: CCB	Dilution: 1
Lab ID: KQ2105296-02	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/17/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot:	Report Group: KQ2105296
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	11.04 ^{+0.02}	0.00	173097	0	0.168	0.000				26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	0.00	0.00	0	0	0.000	0.000	0U	0U	2.4 U	Y
2,4-D	0.00	10.94 ^{-0.01}	0	122155	0.000	0.165	0U	0.28U	7.7 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
D: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\GC34\DATA\033121\03310000007.D Vial: 7
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31-Mar-2021, 10:47:41 Operator: JTC
 Sample : IB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 31 11:23:48 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound		RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds							
2) s	2,4-Dichl...	11.040	0.000	173097	0	0.168	N.D. #
Target Compounds							
1) m	Dalapon	0.000	4.887f	0	24230	N.D.	0.051 #
3) m	Dicamba	11.157	0.000	58175	0	0.018	N.D. #
4) m	MCP	11.333	0.000	85131	0	18.708	N.D. #
5) m	MCPA	0.000	10.267f	0	707391	N.D.	200.859 #
6) m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D.
7) m	2,4-D	0.000	10.937	0	122155	N.D.	0.165 #
8) m	2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.
9) m	2,4,5-T	0.000	0.000	0	0	N.D.	N.D.
10) m	2,4-DB	0.000	0.000	0	0	N.D.	N.D.
11) m	Dinoseb	0.000	0.000	0	0	N.D.	N.D.

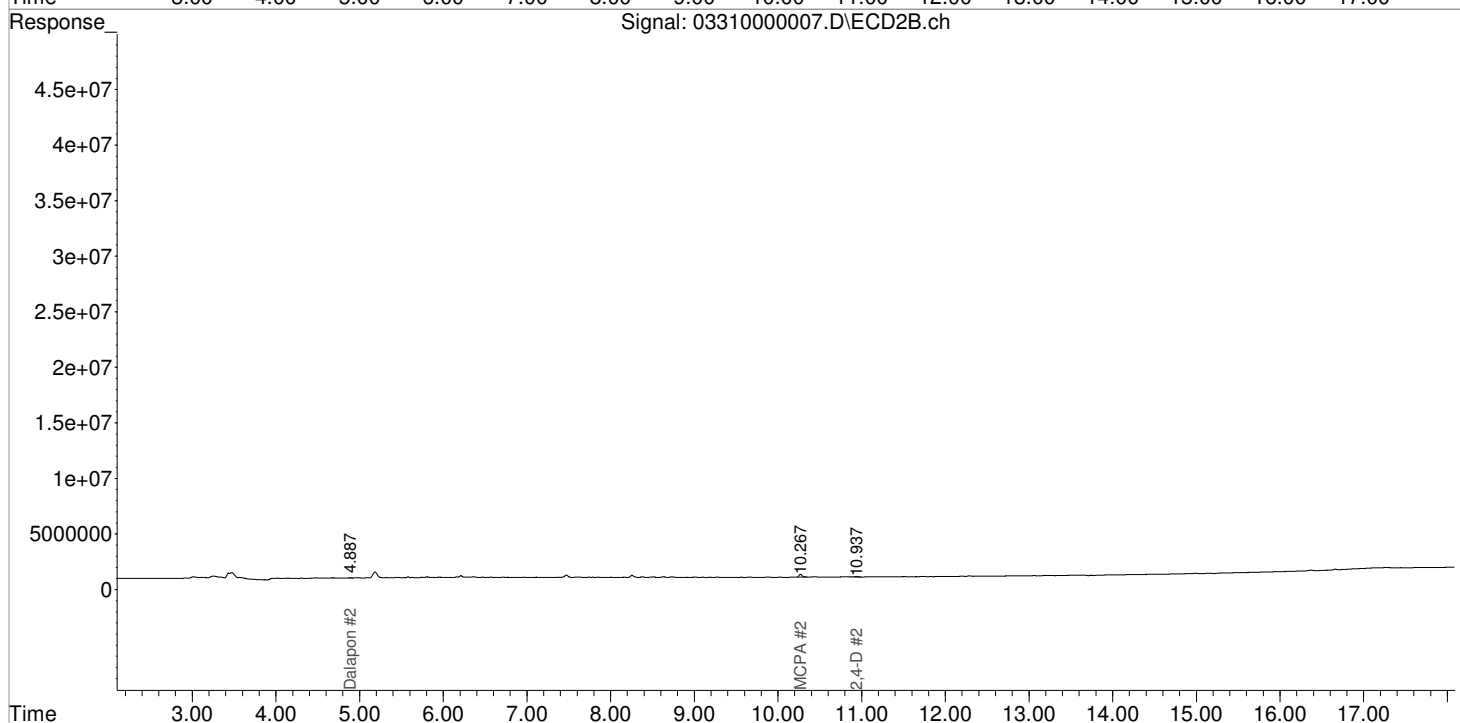
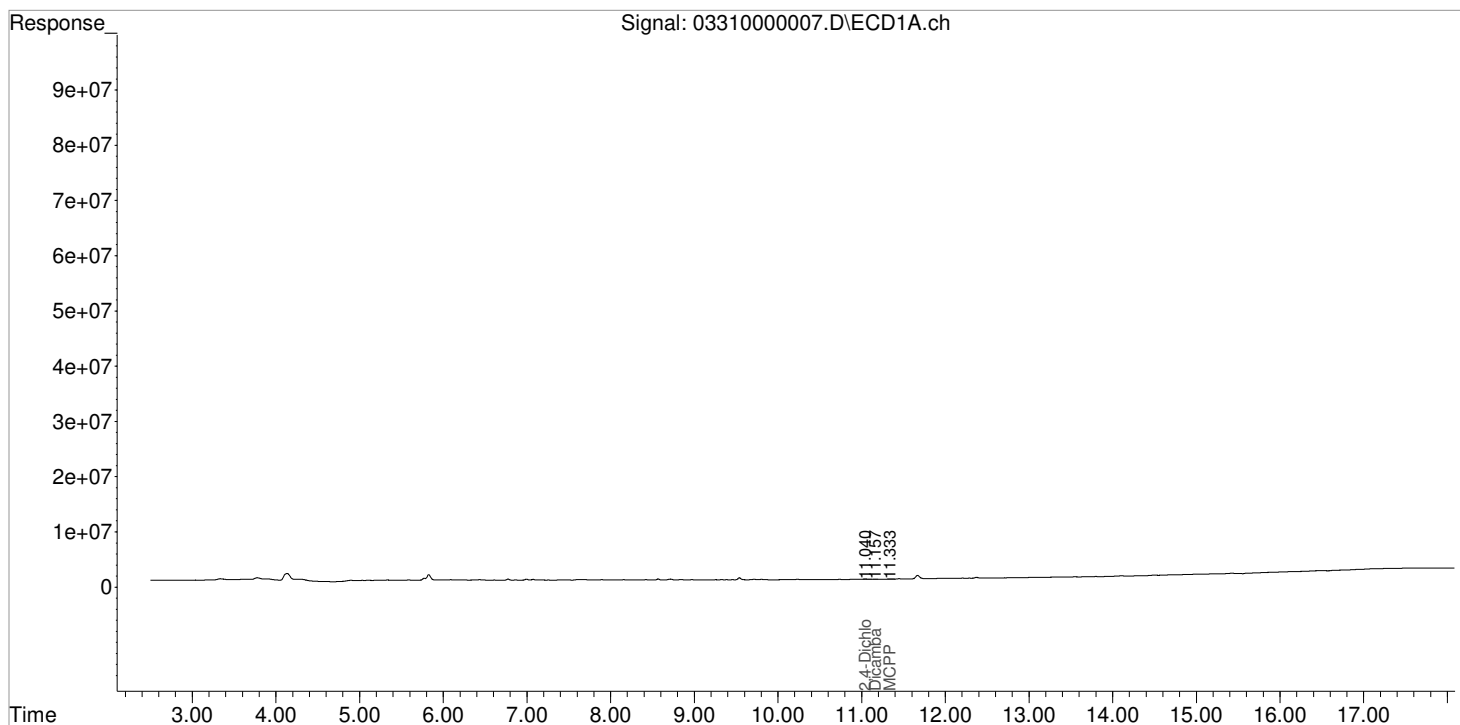
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\0331000007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 10:47:41
Sample : IB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 31 11:23:48 2021
Quant Results File: 031721_8151.RES

Vial: 7
Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/01/21
2nd SW 04/01/21

Data File: J:\GC34\DATA\033121\03310000018.D\
Lab ID: KQ2105296-04
RunType: CCB
Matrix: Soil

Date Acquired: 3/31/21 15:14:57
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Surrogates	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/01/21
2nd *SW* 04/01/21

Data File: J:\GC34\DATA\033121\03310000018.D\	Instrument: K-GC-34
Acqu Date: 3/31/21 15:14:57	Vial: 4
Run Type: CCB	Dilution: 1
Lab ID: KQ2105113-04	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/10/21	Receive Date: 3/19/21

Analysis Lot: 718306	Prep Lot:	Report Group: KQ2105113
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	0.00	0.00	0	0	0.000	0.000				26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-T	0.00	0.00	0	0	0.000	0.000	0U	0U	4.0 U	Y
2,4,5-TP (Silvex)	0.00	0.00	0	0	0.000	0.000	0U	0U	2.4 U	Y
2,4-D	0.00	10.94 ^{-0.01}	0	105036	0.000	0.142	0U	0.24U	7.7 U	Y
2,4-DB	0.00	0.00	0	0	0.000	0.000	0U	0U	5.4 U	Y
Dalapon	0.00	0.00	0	0	0.000	0.000	0U	0U	5.5 U	Y
Dicamba	0.00	0.00	0	0	0.000	0.000	0U	0U	4.3 U	Y
Dichlorprop	0.00	0.00	0	0	0.000	0.000	0U	0U	3.4 U	Y
Dinoseb	0.00	0.00	0	0	0.000	0.000	0U	0U	2.7 U	Y
MCPA	0.00	10.27 ^{-0.05}	0	626170	0.000	177.797	0U	300U	320 U	Y
MCPP	0.00	0.00	0	0	0.000	0.000	0U	0U	460 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Quantitation Report

1st *JTC* 04/05/21
2nd *SW* 04/05/21

Data File: J:\GC34\DATA\033121\03310000018.D\	Instrument: K-GC-34
Acqu Date: 3/31/21 15:14:57	Vial: 4
Run Type: CCB	Dilution: 1
Lab ID: KQ2105296-04	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/17/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot:	Report Group: KQ2105296
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	0.00	0.00	0	0	0.000	0.000				26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	0.00	0.00	0	0	0.000	0.000	0U	0U	2.4 U	Y
2,4-D	0.00	10.94 ^{-0.01}	0	105036	0.000	0.142	0U	0.24U	7.7 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
D: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File : J:\GC34\DATA\033121\03310000018.D Vial: 7
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31-Mar-2021, 15:14:57 Operator: JTC
 Sample : IB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 08:13:28 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	0.000	0.000	0	0	N.D.	N.D.
Target Compounds						
1) m Dalapon	0.000	0.000	0	0	N.D.	N.D.
3) m Dicamba	0.000	0.000	0	0	N.D.	N.D.
4) m MCPP	0.000	0.000	0	0	N.D.	N.D.
5) m MCPA	0.000	10.267f	0	626170	N.D.	177.797 #
6) m Dichloroprop	0.000	0.000	0	0	N.D.	N.D.
7) m 2,4-D	0.000	10.937	0	105036	N.D.	0.142 #
8) m 2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.
9) m 2,4,5-T	0.000	0.000	0	0	N.D.	N.D.
10) m 2,4-DB	0.000	0.000	0	0	N.D.	N.D.
11) m Dinoseb	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

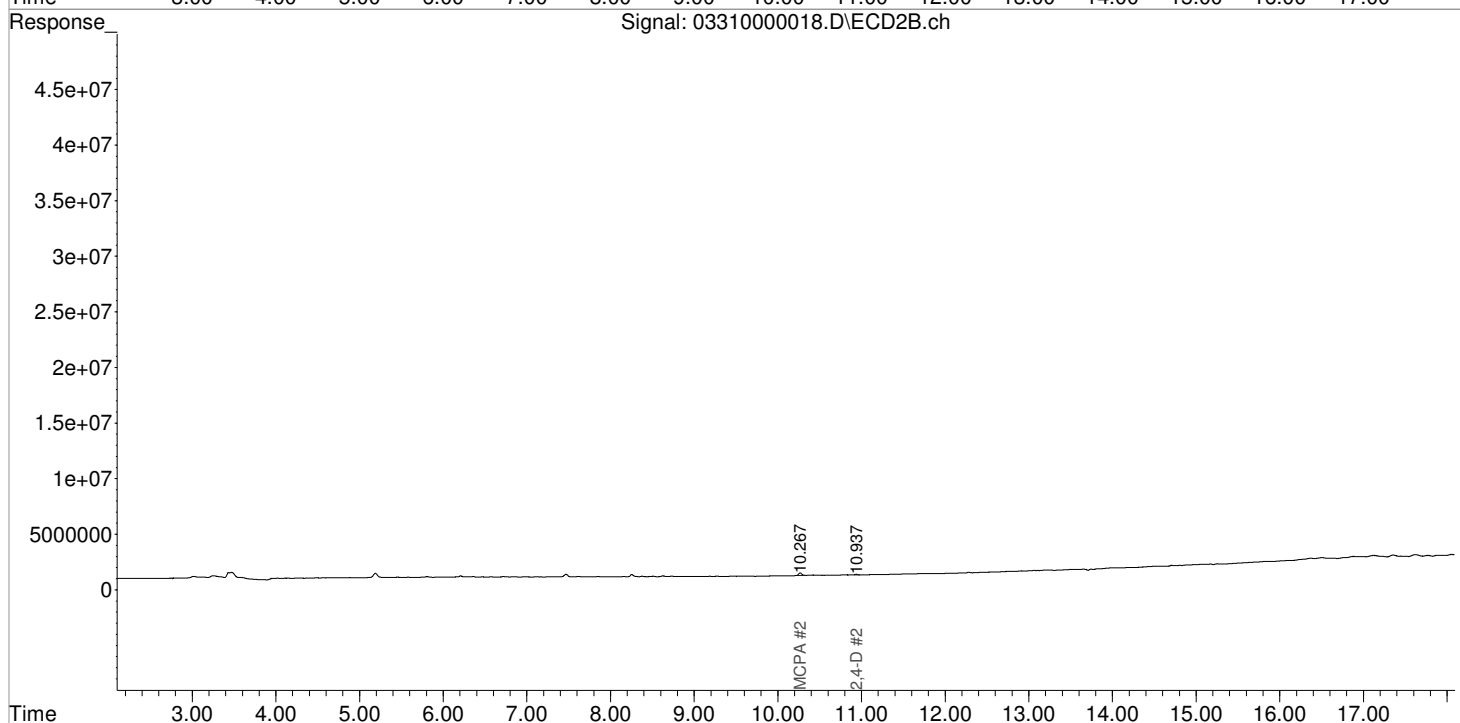
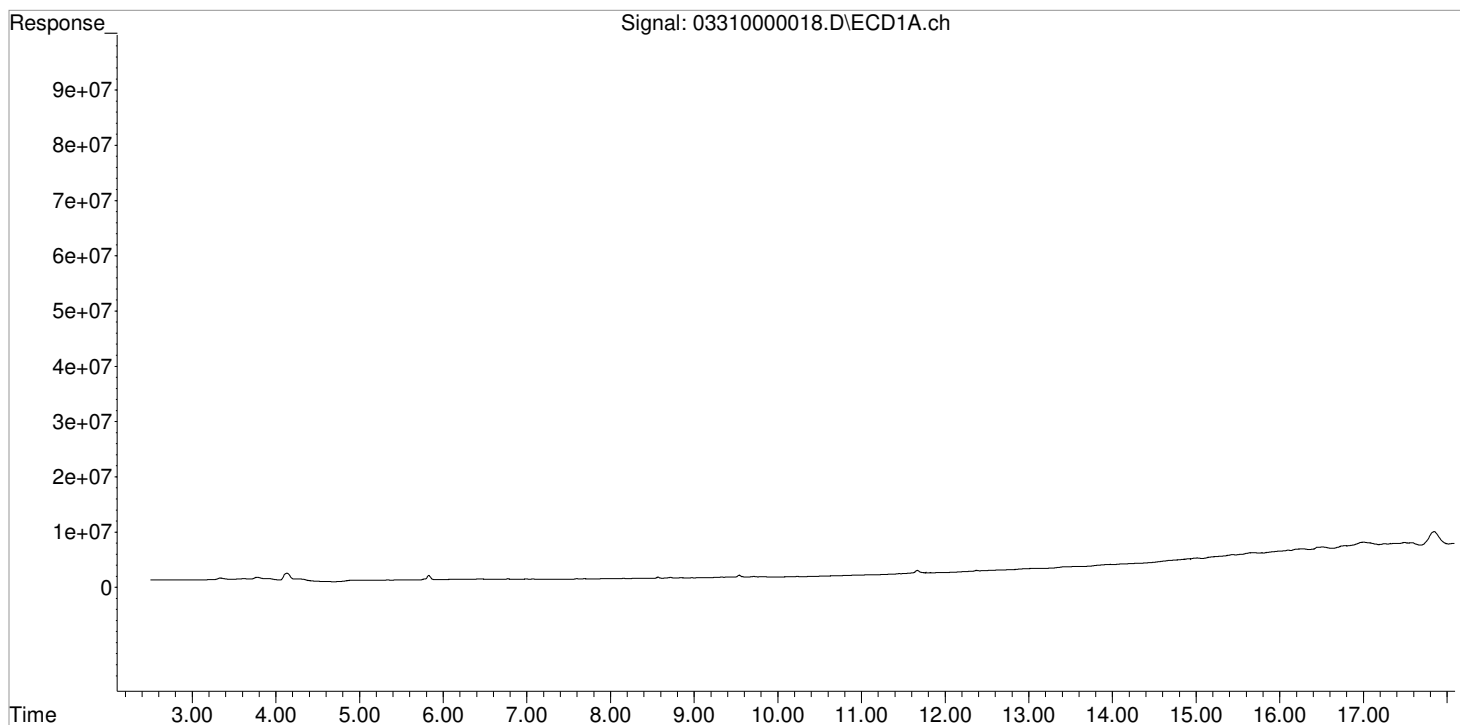
Data File : J:\GC34\DATA\033121\03310000018.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 15:14:57
Sample : IB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 08:13:28 2021
Quant Results File: 031721_8151.RES

Vial: 7

Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/01/21
2nd SW 04/01/21

Data File: J:\GC34\DATA\033121\03310000026.D\
Lab ID: KQ2104596-02
RunType: CCB
Matrix: Soil

Date Acquired: 3/31/21 18:29:21
Batch ID: 717383
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Surrogates	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/01/21
2nd *SW* 04/01/21

Data File: J:\GC34\DATA\033121\03310000026.D\	Instrument: K-GC-34
Acqu Date: 3/31/21 18:29:21	Vial: 2
Run Type: CCB	Dilution: 1
Lab ID: KQ2105094-02	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/9/21	Receive Date: 3/11/21

Analysis Lot: 718273	Prep Lot:	Report Group: KQ2105094
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	11.04 ^{+0.02}	0.00	163931	0	0.159	0.000				26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	0.00	0.00	0	0	0.000	0.000	0U	0U	2.4 U	Y
2,4-D	0.00	10.93 ^{-0.02}	0	238977	0.000	0.323	0U	0.54U	7.7 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

1st *JTC* 04/01/21
2nd *SW* 04/01/21

Data File: J:\GC34\DATA\033121\0331000026.D\	Instrument: K-GC-34
Acqu Date: 3/31/21 18:29:21	Vial: 2
Run Type: CCB	Dilution: 1
Lab ID: KQ2104596-02	Raw Units: ppb

Bottle ID:	Tier: II	Matrix: Soil
Prod Code: HERB	Collect Date: 2/15/21	Receive Date: 2/15/21

Analysis Lot: 717383	Prep Lot:	Report Group: KQ2104596
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	11.04 ^{+0.02}	0.00	163931	0	0.159	0.000				26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-T	0.00	0.00	0	0	0.000	0.000	0U	0U	4.0 U	Y
2,4,5-TP (Silvex)	0.00	0.00	0	0	0.000	0.000	0U	0U	2.4 U	Y
2,4-D	0.00	10.93 ^{-0.02}	0	238977	0.000	0.323	0U	0.54U	7.7 U	Y
2,4-DB	0.00	0.00	0	0	0.000	0.000	0U	0U	5.4 U	Y
Dalapon	0.00	4.88 ^{+0.04}	0	21182	0.000	0.045	0U	0.075U	5.5 U	Y
Dicamba	0.00	0.00	0	0	0.000	0.000	0U	0U	4.3 U	Y
Dichlorprop	0.00	10.77 ^{+0.02}	0	38509	0.000	0.111	0U	0.19U	3.4 U	Y
Dinoseb	0.00	0.00	0	0	0.000	0.000	0U	0U	2.7 U	Y
MCPA	0.00	10.27 ^{-0.04}	0	500518	0.000	142.119	0U	240U	320 U	Y
MCPP	0.00	0.00	0	0	0.000	0.000	0U	0U	460 U	Y

Prep Amount: 30.00 g	Dilution: 1
Prep Final Amount: 50.00 mL	Basis Factor: 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\GC34\DATA\033121\03310000026.D Vial: 7
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31-Mar-2021, 18:29:21 Operator: JTC
 Sample : IB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 08:13:33 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.040	0.000	163931	0	0.159	N.D. #
Target Compounds						
1) m Dalapon	0.000	4.883f	0	21182	N.D.	0.045 #
3) m Dicamba	0.000	0.000	0	0	N.D.	N.D.
4) m MCPP	0.000	0.000	0	0	N.D.	N.D.
5) m MCPA	0.000	10.267f	0	500518	N.D.	142.119 #
6) m Dichloroprop	0.000	10.767	0	38509	N.D.	0.111 #
7) m 2,4-D	0.000	10.933	0	238977	N.D.	0.323 #
8) m 2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.
9) m 2,4,5-T	0.000	0.000	0	0	N.D.	N.D.
10) m 2,4-DB	0.000	0.000	0	0	N.D.	N.D.
11) m Dinoseb	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

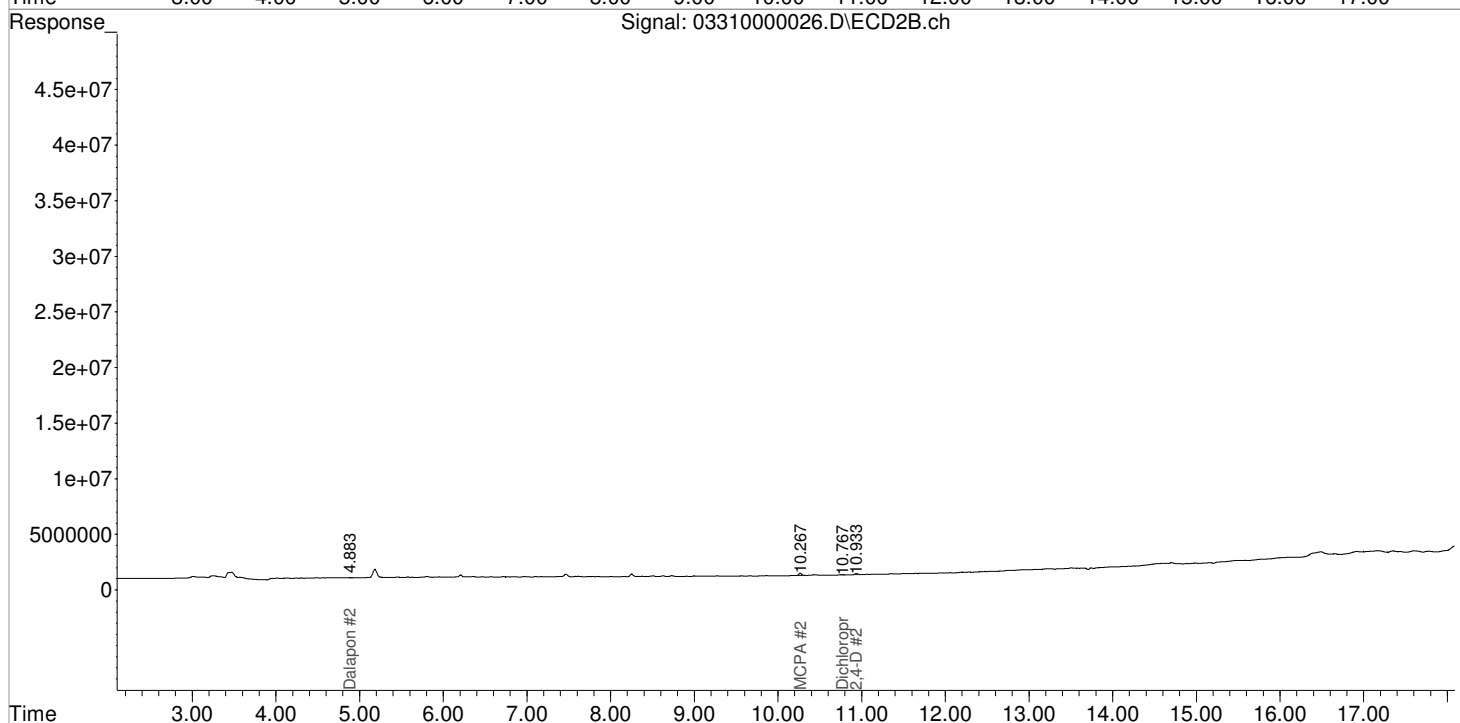
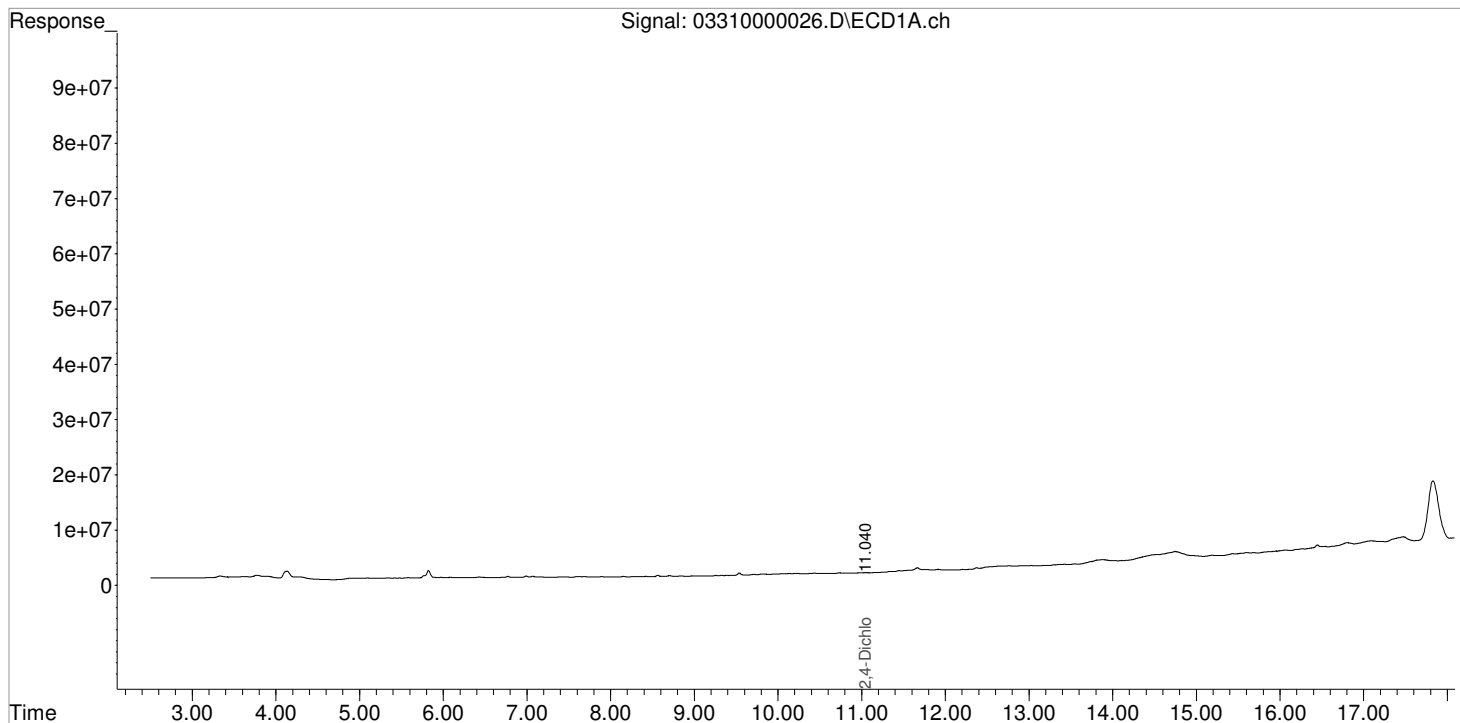
Data File : J:\GC34\DATA\033121\03310000026.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 18:29:21
Sample : IB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 08:13:33 2021
Quant Results File: 031721_8151.RES

Vial: 7

Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/01/21
2nd SW 04/01/21

Data File: J:\GC34\DATA\033121\03310000035.D\
Lab ID: KQ2105296-06
RunType: CCB
Matrix: Soil

Date Acquired: 3/31/21 22:06:52
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Surrogates	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/01/21
2nd *SW* 04/01/21

Data File: J:\GC34\DATA\033121\03310000035.D\	Instrument: K-GC-34
Acqu Date: 3/31/21 22:06:52	Vial: 4
Run Type: CCB	Dilution: 1
Lab ID: KQ2105094-04	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/9/21	Receive Date: 3/11/21

Analysis Lot: 718273	Prep Lot:	Report Group: KQ2105094
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	0.00	0.00	0	0	0.000	0.000				26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	0.00	0.00	0	0	0.000	0.000	0U	0U	2.4 U	Y
2,4-D	0.00	10.94	0	77391	0.000	0.105	0U	0.18U	7.7 U	Y

Prep Amount: 30.00 g	Dilution: 1
Prep Final Amount: 50.00 mL	Basis Factor: 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Quantitation Report

1st *JTC* 04/01/21
2nd *SW* 04/01/21

Data File: J:\GC34\DATA\033121\03310000035.D\	Instrument: K-GC-34
Acqu Date: 3/31/21 22:06:52	Vial: 4
Run Type: CCB	Dilution: 1
Lab ID: KQ2104596-04	Raw Units: ppb

Bottle ID:	Tier: II	Matrix: Soil
Prod Code: HERB	Collect Date: 2/15/21	Receive Date: 2/15/21

Analysis Lot: 717383	Prep Lot:	Report Group: KQ2104596
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	0.00	0.00	0	0	0.000	0.000				26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-T	0.00	0.00	0	0	0.000	0.000	0U	0U	4.0 U	Y
2,4,5-TP (Silvex)	0.00	0.00	0	0	0.000	0.000	0U	0U	2.4 U	Y
2,4-D	0.00	10.94	0	77391	0.000	0.105	0U	0.18U	7.7 U	Y
2,4-DB	0.00	0.00	0	0	0.000	0.000	0U	0U	5.4 U	Y
Dalapon	0.00	0.00	0	0	0.000	0.000	0U	0U	5.5 U	Y
Dicamba	0.00	0.00	0	0	0.000	0.000	0U	0U	4.3 U	Y
Dichlorprop	0.00	0.00	0	0	0.000	0.000	0U	0U	3.4 U	Y
Dinoseb	0.00	0.00	0	0	0.000	0.000	0U	0U	2.7 U	Y
MCPA	0.00	10.27 ^{-0.04}	0	576651	0.000	163.736	0U	270U	320 U	Y
MCPP	0.00	0.00	0	0	0.000	0.000	0U	0U	460 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Quantitation Report

1st *JTC* 04/05/21
2nd *AW* 04/05/21

Data File: J:\GC34\DATA\033121\03310000035.D\	Instrument: K-GC-34
Acqu Date: 3/31/21 22:06:52	Vial: 10
Run Type: CCB	Dilution: 1
Lab ID: KQ2105296-06	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/17/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot:	Report Group: KQ2105296
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	0.00	0.00	0	0	0.000	0.000				26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	0.00	0.00	0	0	0.000	0.000	0U	0U	2.4 U	Y
2,4-D	0.00	10.94	0	77391	0.000	0.105	0U	0.18U	7.7 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
D: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\GC34\DATA\033121\03310000035.D Vial: 25
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31-Mar-2021, 22:06:52 Operator: JTC
 Sample : IB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 08:13:40 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	0.000	0.000	0	0	N.D.	N.D.
Target Compounds						
1) m Dalapon	0.000	0.000	0	0	N.D.	N.D.
3) m Dicamba	0.000	0.000	0	0	N.D.	N.D.
4) m MCPP	0.000	0.000	0	0	N.D.	N.D.
5) m MCPA	0.000	10.267f	0	576651	N.D.	163.736 #
6) m Dichloroprop	0.000	0.000	0	0	N.D.	N.D.
7) m 2,4-D	0.000	10.937	0	77391	N.D.	0.105 #
8) m 2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.
9) m 2,4,5-T	0.000	0.000	0	0	N.D.	N.D.
10) m 2,4-DB	0.000	0.000	0	0	N.D.	N.D.
11) m Dinoseb	0.000	0.000	0	0	N.D.	N.D.

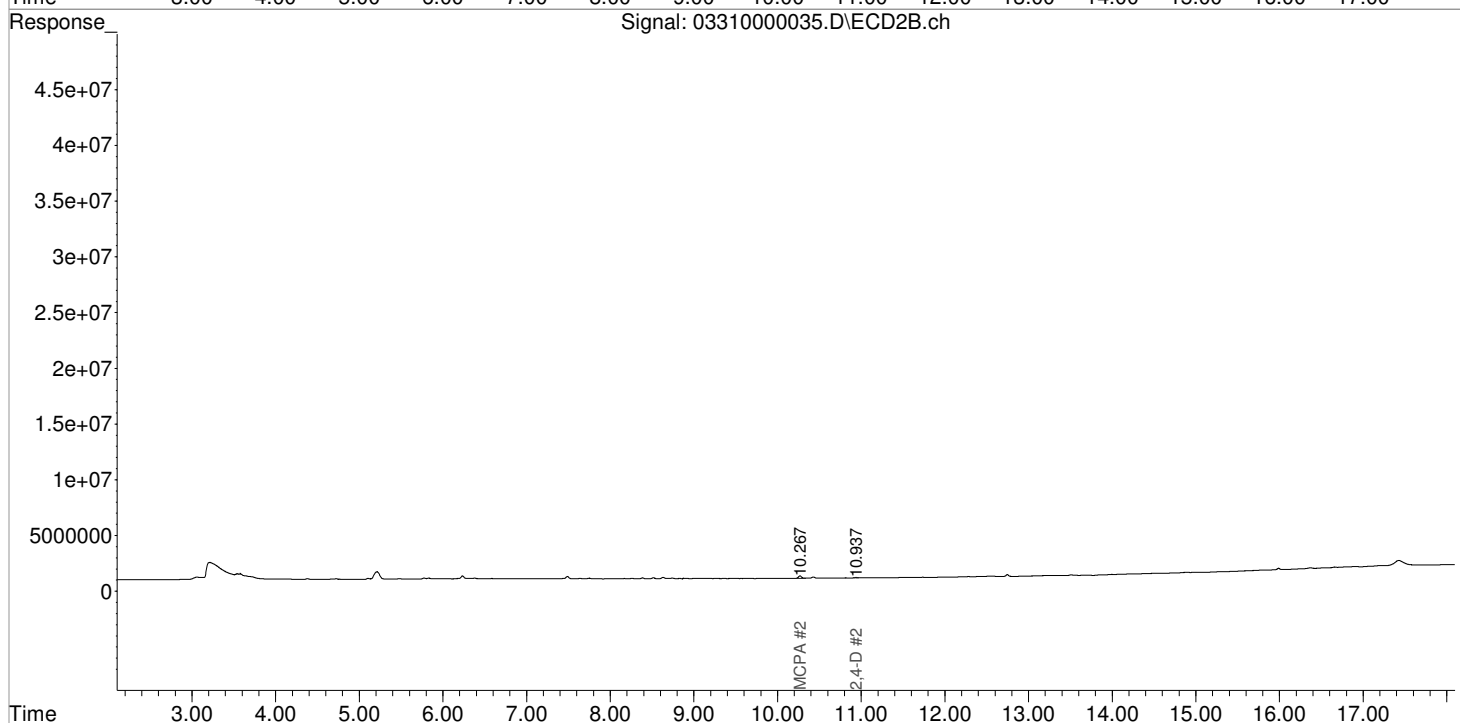
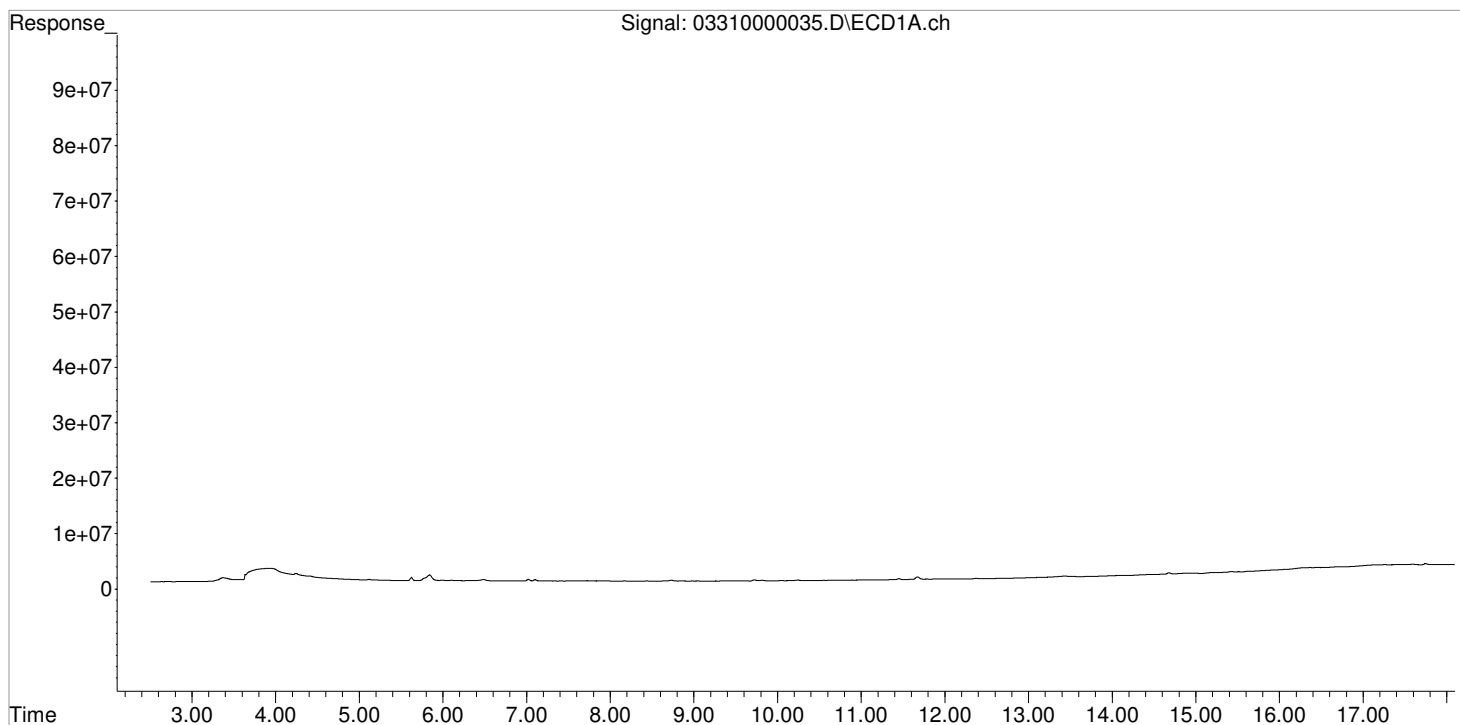
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\03310000035.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 22:06:52
Sample : IB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 08:13:40 2021
Quant Results File: 031721_8151.RES

Vial: 25
Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/05/21
2nd SW 04/05/21

Data File: J:\GC34\DATA\033121\03310000049.D\
Lab ID: KQ2105296-08
RunType: CCB
Matrix: Soil

Date Acquired: 4/1/21 03:46:54
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Surrogates	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/05/21
2nd *SW* 04/05/21

Data File: J:\GC34\DATA\033121\03310000049.D\	Instrument: K-GC-34
Acqu Date: 4/1/21 03:46:54	Vial: 12
Run Type: CCB	Dilution: 1
Lab ID: KQ2105296-08	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/17/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot:	Report Group: KQ2105296
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	0.00	0.00	0	0	0.000	0.000				26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	0.00	0.00	0	0	0.000	0.000	0U	0U	2.4 U	Y
2,4-D	0.00	10.93 ^{-0.01}	0	89663	0.000	0.121	0U	0.20U	7.7 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
D: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File : J:\GC34\DATA\033121\03310000049.D Vial: 25
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01-Apr-2021, 03:46:54 Operator: JTC
 Sample : IB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 08:13:45 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	0.000	0.000	0	0	N.D.	N.D.
Target Compounds						
1) m Dalapon	0.000	0.000	0	0	N.D.	N.D.
3) m Dicamba	0.000	0.000	0	0	N.D.	N.D.
4) m MCPP	0.000	0.000	0	0	N.D.	N.D.
5) m MCPA	0.000	10.267f	0	546547	N.D.	155.188 #
6) m Dichloroprop	0.000	0.000	0	0	N.D.	N.D.
7) m 2,4-D	0.000	10.933	0	89663	N.D.	0.121 #
8) m 2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.
9) m 2,4,5-T	0.000	0.000	0	0	N.D.	N.D.
10) m 2,4-DB	0.000	0.000	0	0	N.D.	N.D.
11) m Dinoseb	0.000	0.000	0	0	N.D.	N.D.

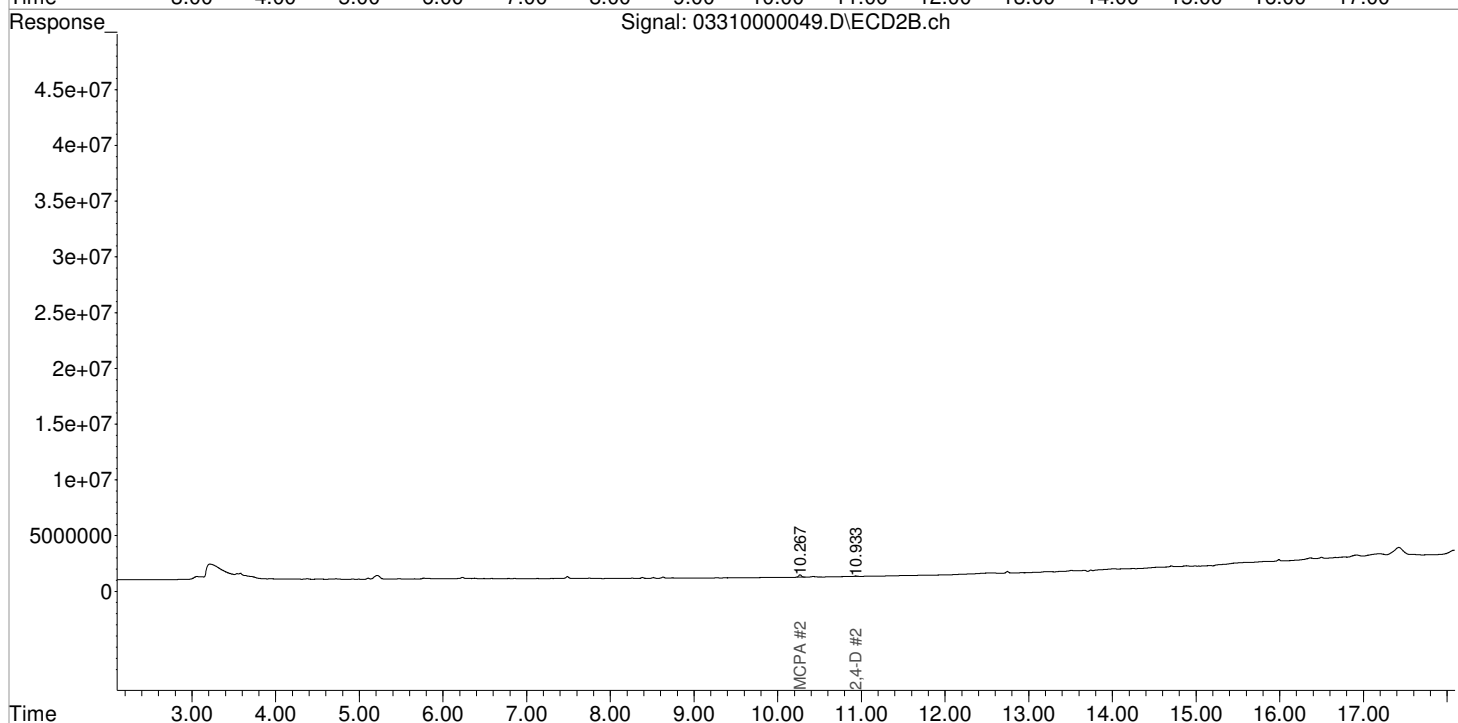
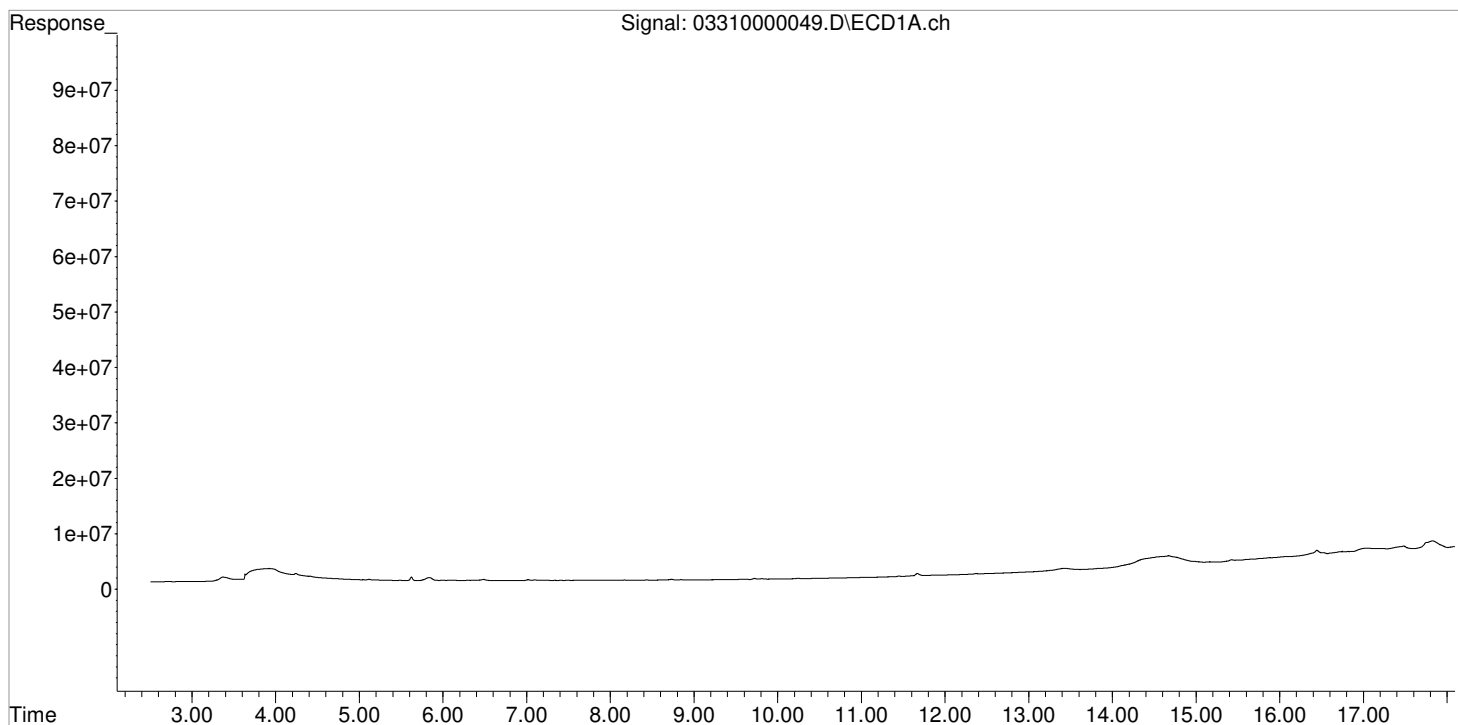
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\03310000049.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01-Apr-2021, 03:46:54
Sample : IB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 08:13:45 2021
Quant Results File: 031721_8151.RES

Vial: 25
Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/05/21
2nd SW 04/05/21

Data File: J:\GC34\DATA\033121\03310000059.D\
Lab ID: KQ2105296-10
RunType: CCB
Matrix: Soil

Date Acquired: 4/1/21 07:48:30
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Surrogates	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/05/21
2nd *AW* 04/05/21

Data File: J:\GC34\DATA\033121\03310000059.D\	Instrument: K-GC-34
Acqu Date: 4/1/21 07:48:30	Vial: 14
Run Type: CCB	Dilution: 1
Lab ID: KQ2105296-10	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/17/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot:	Report Group: KQ2105296
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
2,4-Dichlorophenylacetic Acid	0.00	0.00	0	0	0.000	0.000				26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	0.00	0.00	0	0	0.000	0.000	0U	0U	2.4 U	Y
2,4-D	0.00	10.94 ^{-0.01}	0	156657	0.000	0.212	0U	0.35U	7.7 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 4/5/21 11:38

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Data File : J:\GC34\DATA\033121\03310000059.D Vial: 25
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01-Apr-2021, 07:48:30 Operator: JTC
 Sample : IB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 08:13:51 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	0.000	0.000	0	0	N.D.	N.D.
Target Compounds						
1) m Dalapon	0.000	0.000	0	0	N.D.	N.D.
3) m Dicamba	0.000	0.000	0	0	N.D.	N.D.
4) m MCPP	0.000	0.000	0	0	N.D.	N.D.
5) m MCPA	0.000	10.270f	0	650146	N.D.	184.605 #
6) m Dichloroprop	0.000	0.000	0	0	N.D.	N.D.
7) m 2,4-D	0.000	10.937	0	156657	N.D.	0.212 #
8) m 2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.
9) m 2,4,5-T	0.000	0.000	0	0	N.D.	N.D.
10) m 2,4-DB	0.000	0.000	0	0	N.D.	N.D.
11) m Dinoseb	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

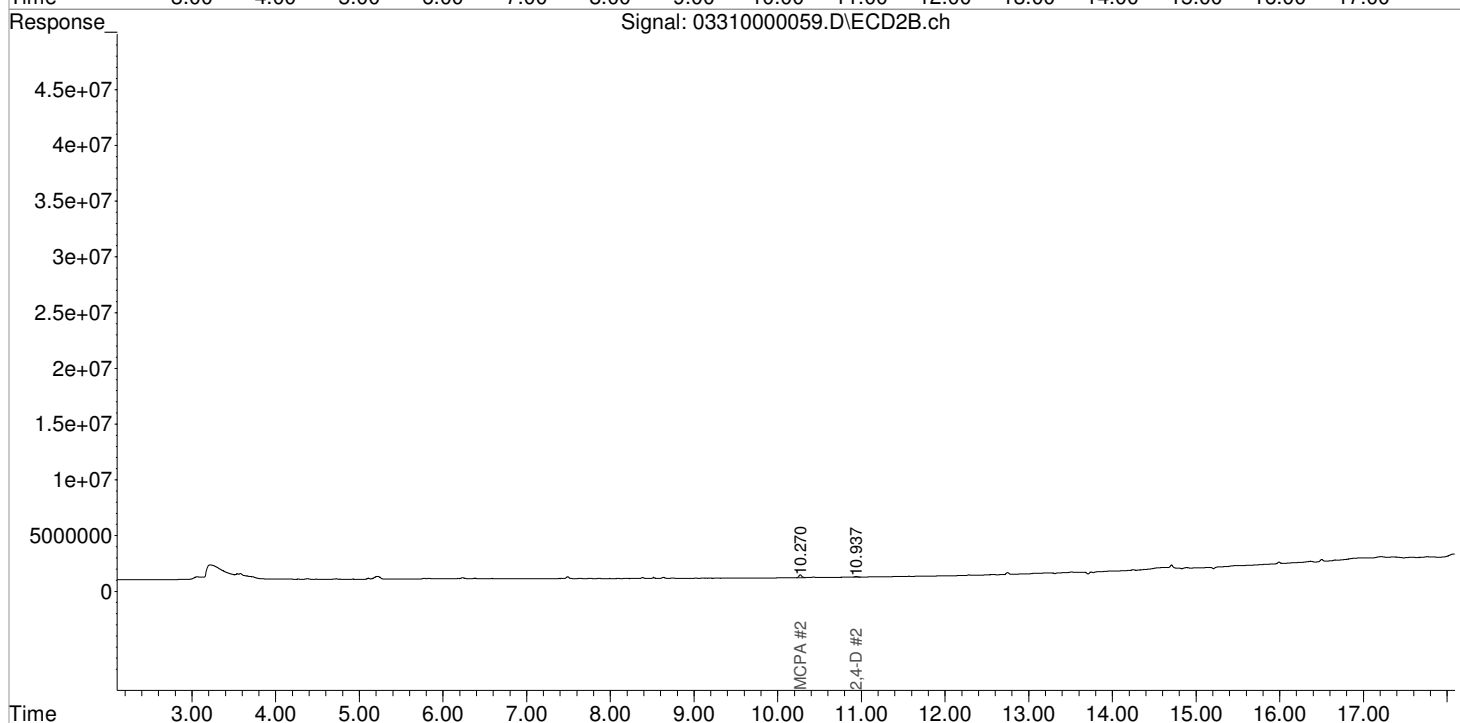
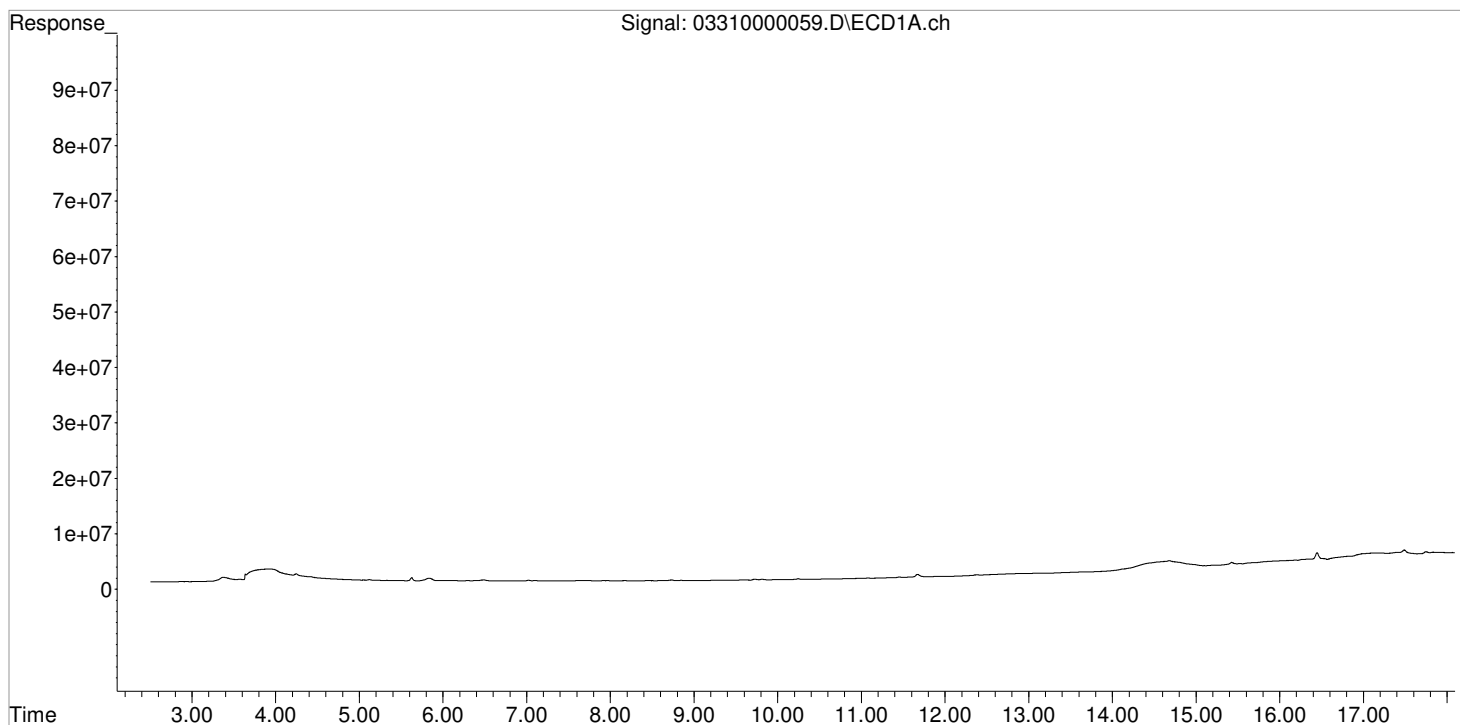
Data File : J:\GC34\DATA\033121\03310000059.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01-Apr-2021, 07:48:30
Sample : IB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 08:13:51 2021
Quant Results File: 031721_8151.RES

Vial: 25

Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/01/21
2nd SW 04/01/21

Data File: J:\GC34\DATA\033121\03310000006.D\
Lab ID: KQ2105296-01
RunType: CCV
Matrix: Soil

Date Acquired: 3/31/21 10:23:14
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/01/21
2nd *SW* 04/01/21

Data File: J:\GC34\DATA\033121\0331000006.D\	Instrument: K-GC-34
Acqu Date: 3/31/21 10:23:14	Vial: 1
Run Type: CCV	Dilution: 1
Lab ID: KQ2105113-01	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/10/21	Receive Date: 3/19/21

Analysis Lot: 718306	Prep Lot:	Report Group: KQ2105113
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
2,4-Dichlorophenylacetic Acid	11.02	9.49	87477816	31183888	84.906	83.267			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
2,4,5-T	13.73	12.06	289644730	100002343	85.897	86.859	85.9	86.9	Y
2,4,5-TP (Silvex)	13.35	11.51	377214148	134011926	87.922	91.612	87.9	91.6	Y
2,4-D	12.28	10.95	82835385	65291741	84.702	88.319	84.7	88.3	Y
2,4-DB	14.33	12.55	36982007	12750785	84.736	85.316	84.7	85.3	Y
Dalapon	5.69	4.84	86521662	42022050	88.465	88.541	88.5	88.5	Y
Dicamba	11.15	9.67	302906675	108421305	92.140	90.290	92.1	90.3	Y
Dichlorprop	11.98	10.76	84118496	29182003	88.412	83.831	88.4	83.8	Y
Dinoseb	14.48	12.44	230799003	85879815	89.187	93.057	89.2	93.1	Y
MCPA	11.56	10.31	57069479	30653075	8358.296	8703.735	8360	8700	Y
MCPP	11.31	10.02	38450134	20521560	8449.740	9129.017	8450	9130	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Quantitation Report

1st *JTC* 04/05/21
2nd *SW* 04/05/21

Data File: J:\GC34\DATA\033121\0331000006.D\	Instrument: K-GC-34
Acqu Date: 3/31/21 10:23:14	Vial: 1
Run Type: CCV	Dilution: 1
Lab ID: KQ2105296-01	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/17/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot:	Report Group: KQ2105296
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		% Rec		Rpt?
					Conc 1	Conc 2	1	2	
2,4-Dichlorophenylacetic Acid	11.02	9.49	87477816	31183888	84.906	83.267			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		Final		Rpt?
					Conc 1	Conc 2	Conc 1	Conc 2	
2,4,5-TP (Silvex)	13.35	11.51	377214148	134011926	87.922	91.612	87.9	91.6	Y
2,4-D	12.28	10.95	82835385	65291741	84.702	88.319	84.7	88.3	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\GC34\DATA\033121\03310000006.D Vial: 6
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31-Mar-2021, 10:23:14 Operator: JTC
 Sample : PENTA02-25J 100PPB CCV Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 31 11:24:08 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.023	9.487	87477816	31183888	84.906	83.267
Target Compounds						
1) m Dalapon	5.693	4.843	86521662	42022050	88.465	88.541
3) m Dicamba	11.153	9.670	302.9E6	108.4E6	92.140	90.290
4) m MCPP	11.307	10.020	38450134	20521560	8449.740	9129.017
5) m MCPA	11.560	10.313	57069479	30653075	8358.296	8703.735
6) m Dichloroprop	11.983	10.757	84118496	29182003	88.412	83.831
7) m 2,4-D	12.283	10.947	82835385	65291741	84.702	88.319
8) m 2,4,5-TP ...	13.350	11.513	377.2E6	134.0E6	87.922	91.612
9) m 2,4,5-T	13.730	12.057	289.6E6	100.0E6	85.897	86.859
10) m 2,4-DB	14.330	12.553	36982007	12750785	84.736	85.316
11) m Dinoseb	14.480	12.443	230.8E6	85879815	89.187	93.057

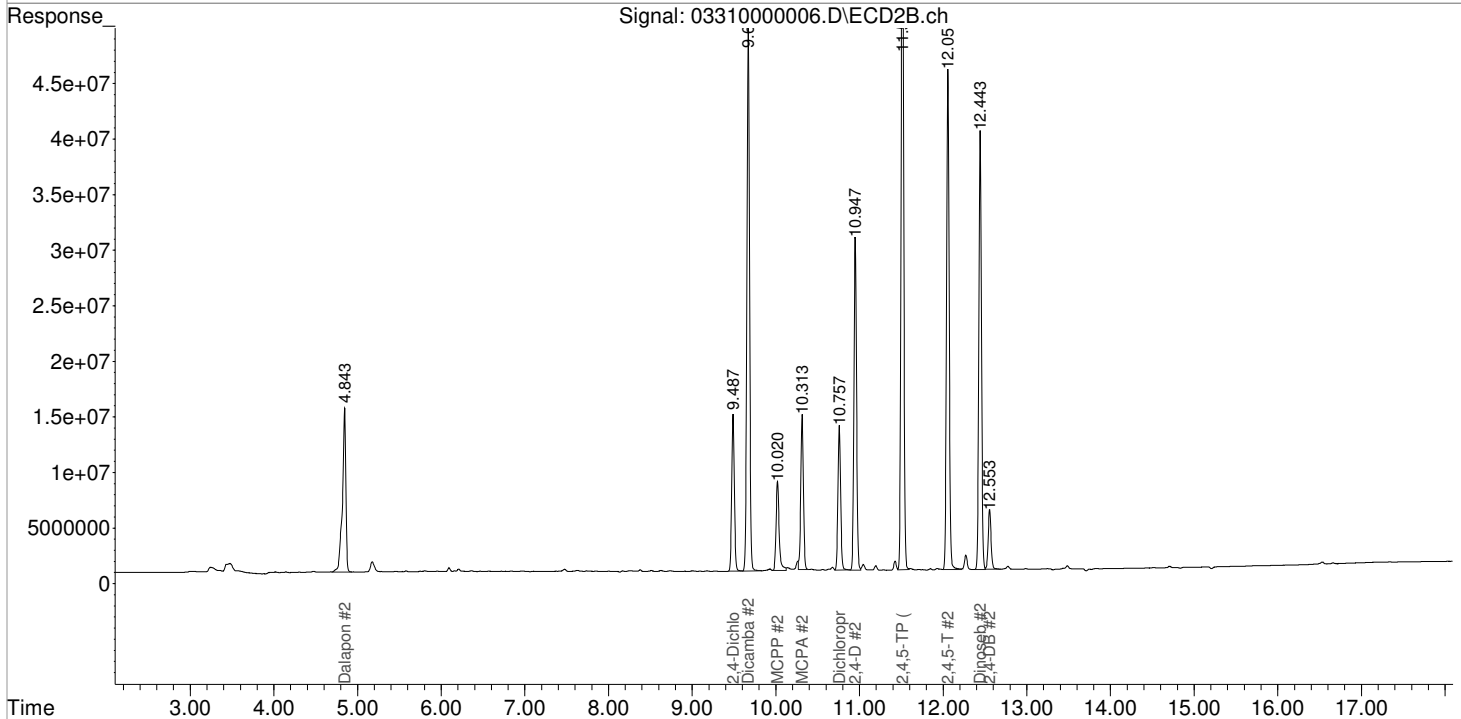
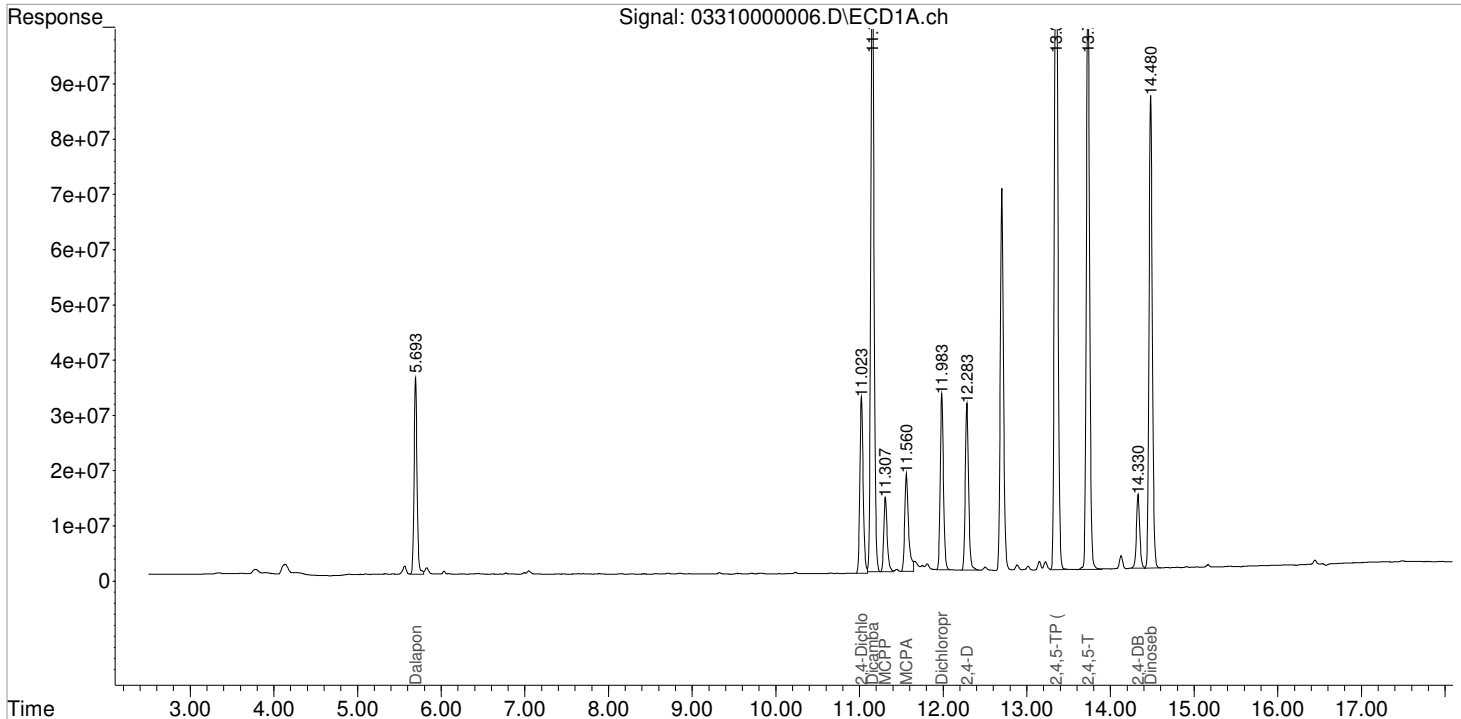
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\0331000006.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31-Mar-2021, 10:23:14
 Sample : PENTA02-25J 100PPB CCV
 Misc :
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 31 11:24:08 2021
 Quant Results File: 031721_8151.RES

Vial: 6
 Operator: JTC
 Inst : GCI
 Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/01/21
2nd SW 04/01/21

Data File: J:\GC34\DATA\033121\03310000017.D\
Lab ID: KQ2105296-03
RunType: CCV
Matrix: Soil

Date Acquired: 3/31/21 14:50:28
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st JTC 04/01/21
2nd SW 04/01/21

Data File: J:\GC34\DATA\033121\03310000017.D\	Instrument: K-GC-34
Acqu Date: 3/31/21 14:50:28	Vial: 3
Run Type: CCV	Dilution: 1
Lab ID: KQ2105113-03	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/10/21	Receive Date: 3/19/21

Analysis Lot: 718306	Prep Lot:	Report Group: KQ2105113
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		% Rec		Rpt?
					Conc 1	Conc 2	1	2	
2,4-Dichlorophenylacetic Acid	11.02	9.49	85442860	32236378	82.930	86.077			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		Final		Rpt?
					Conc 1	Conc 2	Conc 1	Conc 2	
2,4,5-T	13.73	12.06	301055571	111926001	89.281	97.216	89.3	97.2	Y
2,4,5-TP (Silvex)	13.35	11.51	382193854	143979526	89.083	98.425	89.1	98.4	Y
2,4-D	12.28	10.95	82195645	69117183	84.048	93.494	84.0	93.5	Y
2,4-DB	14.33	12.56	36749702	13574234	84.204	90.826	84.2	90.8	Y
Dalapon	5.70	4.85	87861077	43731416	89.835	92.142	89.8	92.1	Y
Dicamba	11.16	9.67	306569846	111091960	93.254	92.514	93.3	92.5	Y
Dichlorprop	11.98	10.76	80915914	31623124	85.046	90.844	85.0	90.8	Y
Dinoseb	14.48	12.44	227861174	92501948	88.052	100.233	88.1	100	Y
MCPA	11.56	10.32	53744499	31890282	7871.325	9055.032	7870	9060	Y
MCPP	11.31	10.02	40808511	20370850	8968.013	9054.692	8970	9050	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound
D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis
*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

1st *JTC* 04/05/21
2nd *AW* 04/05/21

Data File: J:\GC34\DATA\033121\03310000017.D\	Instrument: K-GC-34
Acqu Date: 3/31/21 14:50:28	Vial: 3
Run Type: CCV	Dilution: 1
Lab ID: KQ2105296-03	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/17/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot:	Report Group: KQ2105296
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		% Rec		Rpt?
					Conc 1	Conc 2	1	2	
2,4-Dichlorophenylacetic Acid	11.02	9.49	85442860	32236378	82.930	86.077			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		Final		Rpt?
					Conc 1	Conc 2	Conc 1	Conc 2	
2,4,5-TP (Silvex)	13.35	11.51	382193854	143979526	89.083	98.425	89.1	98.4	Y
2,4-D	12.28	10.95	82195645	69117183	84.048	93.494	84.0	93.5	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\GC34\DATA\033121\03310000017.D Vial: 6
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31-Mar-2021, 14:50:28 Operator: JTC
 Sample : PENTA02-25J 100PPB CCV Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 08:13:25 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.023	9.490	85442860	32236378	82.930	86.077
Target Compounds						
1) m Dalapon	5.697	4.850	87861077	43731416	89.835	92.142
3) m Dicamba	11.157	9.673	306.6E6	111.1E6	93.254	92.514
4) m MCPP	11.310	10.020	40808511	20370850	8968.013	9054.692
5) m MCPA	11.560	10.317	53744499	31890282	7871.325	9055.032
6) m Dichloroprop	11.983	10.760	80915914	31623124	85.046	90.844
7) m 2,4-D	12.283	10.950	82195645	69117183	84.048	93.494
8) m 2,4,5-TP ...	13.350	11.513	382.2E6	144.0E6	89.083	98.425
9) m 2,4,5-T	13.730	12.057	301.1E6	111.9E6	89.281	97.216
10) m 2,4-DB	14.330	12.557	36749702	13574234	84.204	90.826
11) m Dinoseb	14.480	12.443	227.9E6	92501948	88.052	100.233

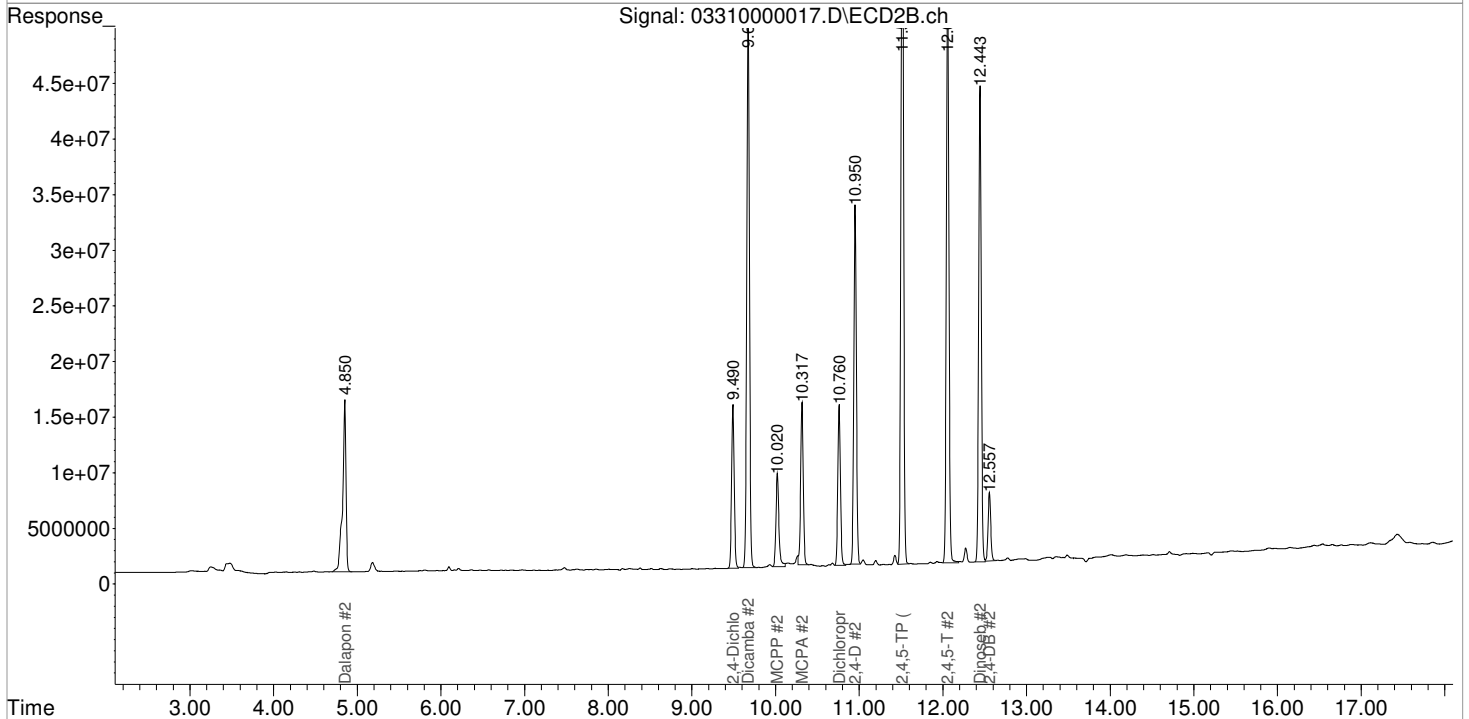
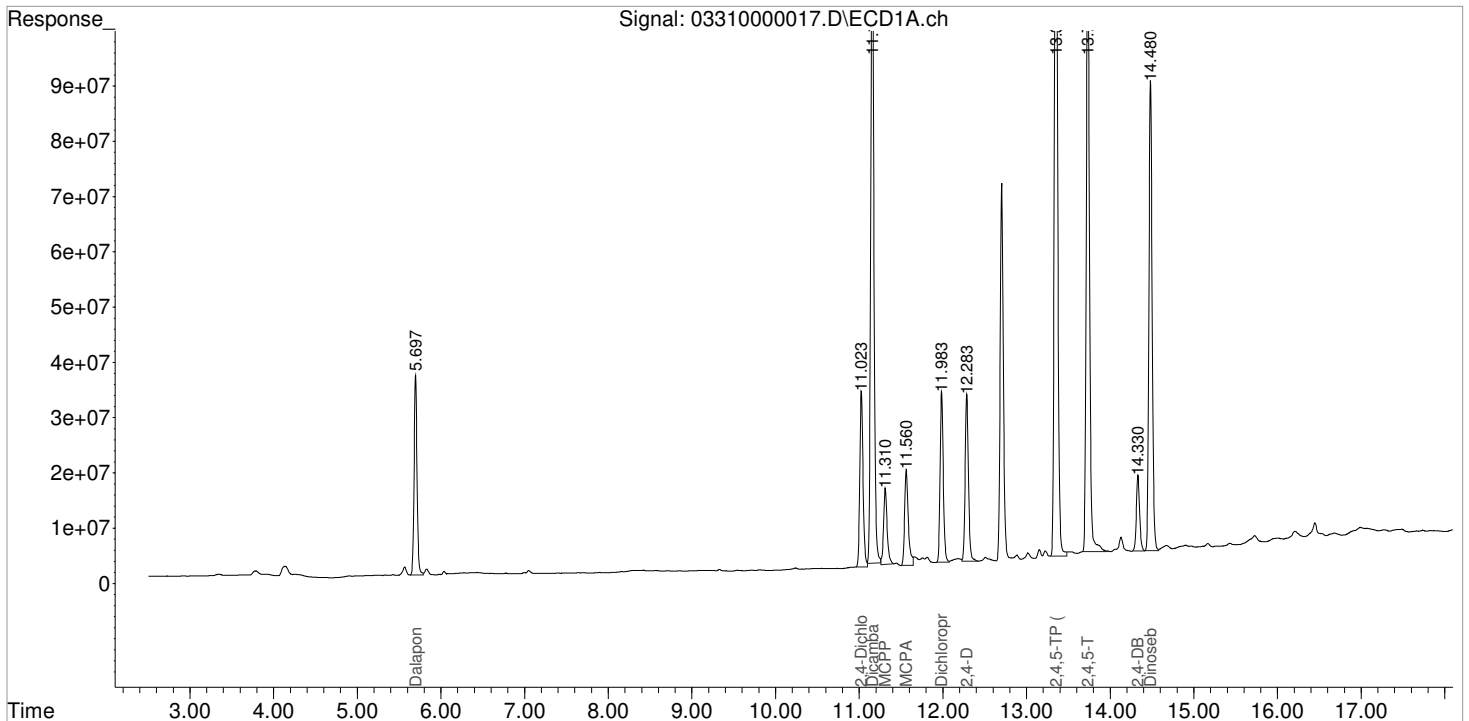
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\03310000017.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31-Mar-2021, 14:50:28
 Sample : PENTA02-25J 100PPB CCV
 Misc :
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 08:13:25 2021
 Quant Results File: 031721_8151.RES

Vial: 6
 Operator: JTC
 Inst : GCI
 Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/01/21
2nd SW 04/01/21

Data File: J:\GC34\DATA\033121\03310000025.D\
Lab ID: KQ2104596-01
RunType: CCV
Matrix: Soil

Date Acquired: 3/31/21 18:05:04
Batch ID: 717383
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/01/21
2nd *SW* 04/01/21

Data File: J:\GC34\DATA\033121\0331000025.D\	Instrument: K-GC-34
Acqu Date: 3/31/21 18:05:04	Vial: 1
Run Type: CCV	Dilution: 1
Lab ID: KQ2105094-01	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/9/21	Receive Date: 3/11/21

Analysis Lot: 718273	Prep Lot:	Report Group: KQ2105094
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
DCAA	11.02	9.48	89313576	32975197	86.687	88.050			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
2,4,5-TP	13.35	11.51	418877845	146297758	97.634	100.010	97.6	100	Y
2,4-D	12.28	10.95	89114451	71211402	91.123	96.327	91.1	96.3	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

1st *JTC* 04/01/21
2nd *SW* 04/01/21

Data File: J:\GC34\DATA\033121\0331000025.D\	Instrument: K-GC-34
Acqu Date: 3/31/21 18:05:04	Vial: 1
Run Type: CCV	Dilution: 1
Lab ID: KQ2104596-01	Raw Units: ppb

Bottle ID:	Tier: II	Matrix: Soil
Prod Code: HERB	Collect Date: 2/15/21	Receive Date: 2/15/21

Analysis Lot: 717383	Prep Lot:	Report Group: KQ2104596
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		% Rec		Rpt?
					Conc 1	Conc 2	1	2	
2,4-Dichlorophenylacetic Acid	11.02	9.48	89313576	32975197	86.687	88.050			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		Final		Rpt?
					Conc 1	Conc 2	Conc 1	Conc 2	
2,4,5-T	13.73	12.05	312406103	115528012	92.647	100.345	92.6	100	Y
2,4,5-TP (Silvex)	13.35	11.51	418877845	146297758	97.634	100.010	97.6	100	Y
2,4-D	12.28	10.95	89114451	71211402	91.123	96.327	91.1	96.3	Y
2,4-DB	14.33	12.55	40983184	15382230	93.904	102.923	93.9	103	Y
Dalapon	5.69	4.84	88454467	44338991	90.442	93.423	90.4	93.4	Y
Dicamba	11.15	9.67	314974569	113042992	95.811	94.138	95.8	94.1	Y
Dichlorprop	11.98	10.75	86220282	32653735	90.621	93.805	90.6	93.8	Y
Dinoseb	14.48	12.44	241756802	95920026	93.421	103.937	93.4	104	Y
MCPA	11.56	10.31	62174768	32287526	9106.007	9167.826	9110	9170	Y
MCPP	11.31	10.02	38391885	20577492	8436.939	9156.609	8440	9160	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\GC34\DATA\033121\03310000025.D Vial: 6
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31-Mar-2021, 18:05:04 Operator: JTC
 Sample : PENTA02-25J 100PPB CCV Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 08:13:31 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds							
2)	s 2,4-Dichl...	11.020	9.483	89313576	32975197	86.687	88.050
Target Compounds							
1)	m Dalapon	5.690	4.840	88454467	44338991	90.442	93.423
3)	m Dicamba	11.150	9.667	315.0E6	113.0E6	95.811	94.138
4)	m MCPP	11.307	10.017	38391885	20577492	8436.939	9156.609
5)	m MCPA	11.557	10.310	62174768	32287526	9106.007	9167.826
6)	m Dichloroprop	11.980	10.753	86220282	32653735	90.621	93.805
7)	m 2,4-D	12.280	10.947	89114451	71211402	91.123	96.327
8)	m 2,4,5-TP ...	13.347	11.510	418.9E6	146.3E6	97.634	100.010
9)	m 2,4,5-T	13.727	12.053	312.4E6	115.5E6	92.647	100.345
10)	m 2,4-DB	14.327	12.550	40983184	15382230	93.904	102.923
11)	m Dinoseb	14.477	12.440	241.8E6	95920026	93.421	103.937

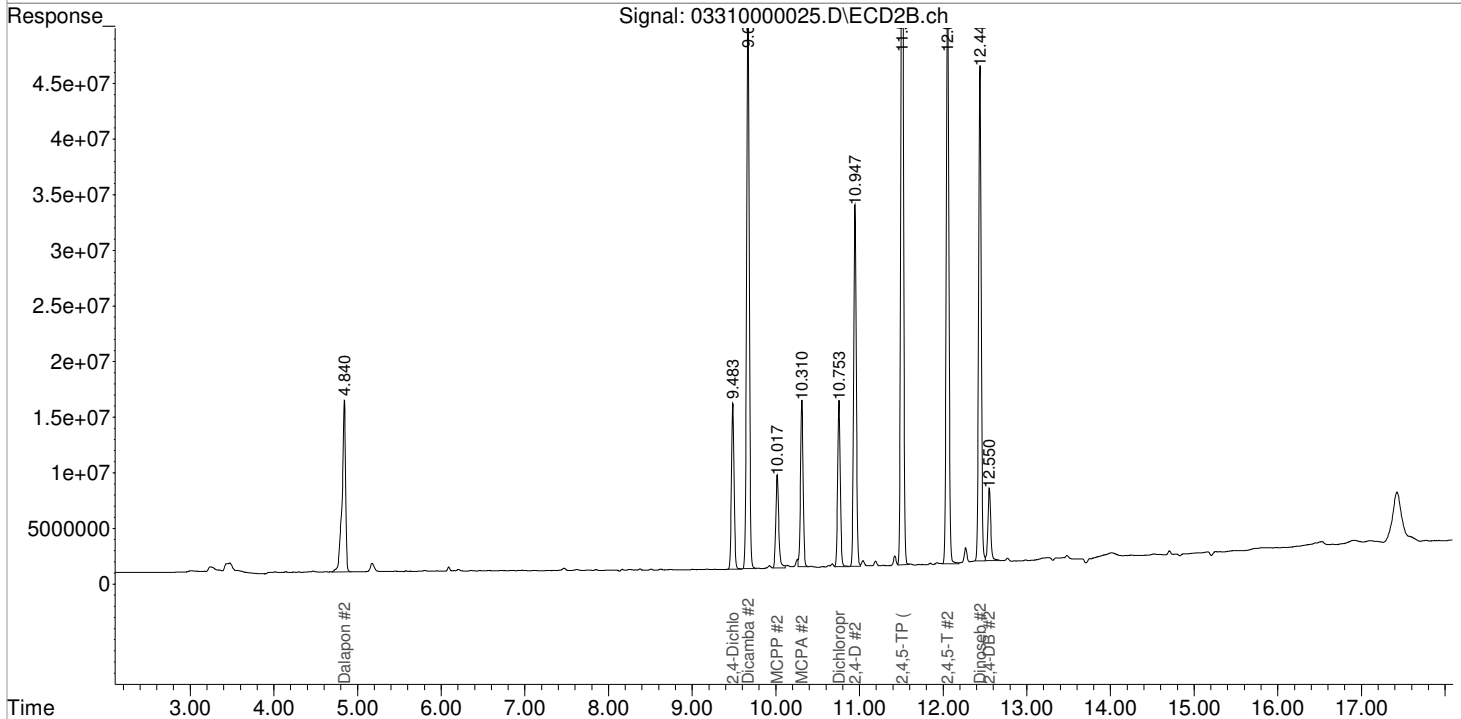
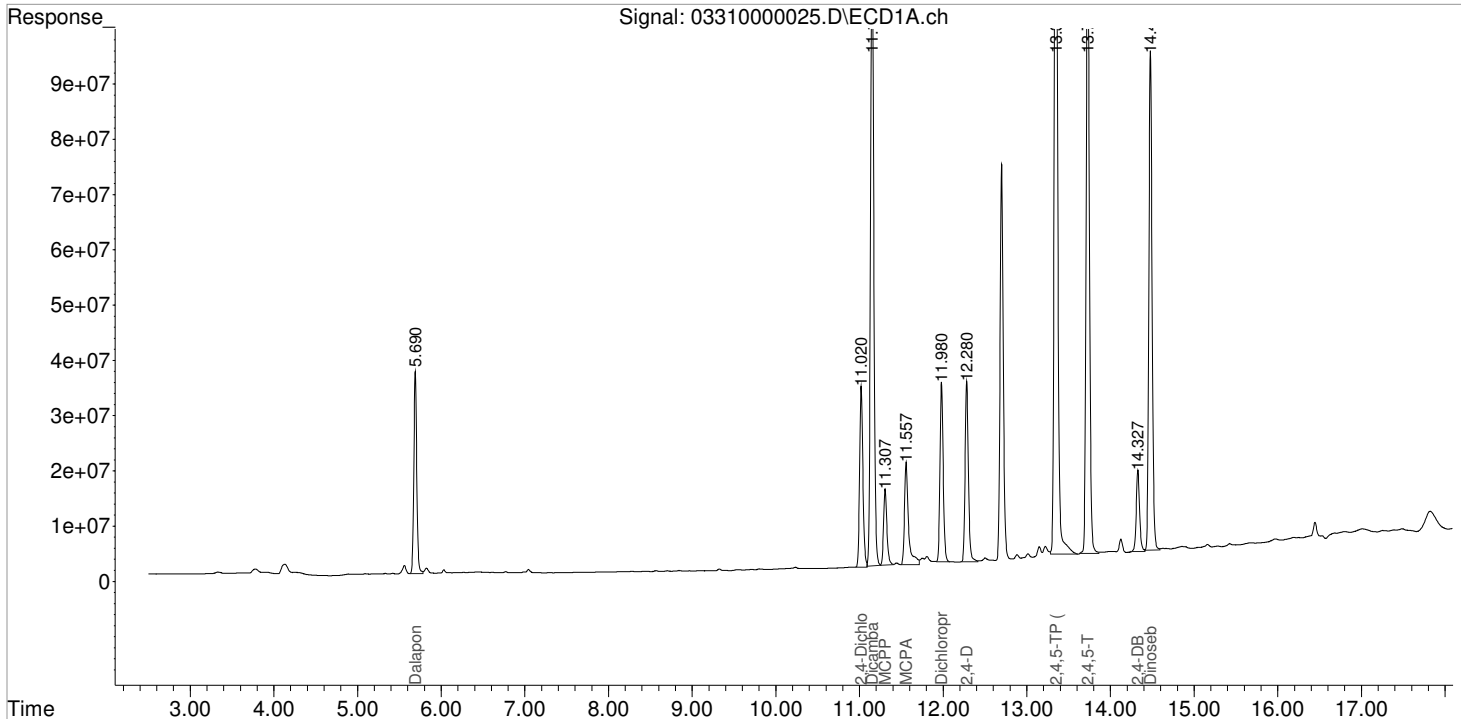
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\03310000025.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31-Mar-2021, 18:05:04
Sample : PENTA02-25J 100PPB CCV
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 01 08:13:31 2021
Quant Results File: 031721_8151.RES

Vial: 6
Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/01/21
2nd SW 04/01/21

Data File: J:\GC34\DATA\033121\03310000034.D\
Lab ID: KQ2105296-05
RunType: CCV
Matrix: Soil

Date Acquired: 3/31/21 21:42:28
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/01/21
2nd *SW* 04/01/21

Data File: J:\GC34\DATA\033121\03310000034.D\	Instrument: K-GC-34
Acqu Date: 3/31/21 21:42:28	Vial: 3
Run Type: CCV	Dilution: 1
Lab ID: KQ2105094-03	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/9/21	Receive Date: 3/11/21

Analysis Lot: 718273	Prep Lot:	Report Group: KQ2105094
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
DCAA	11.02	9.48	90697007	33409222	88.030	89.209			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
2,4,5-TP	13.35	11.51	388993427	145366451	90.668	99.374	90.7	99.4	Y
2,4-D	12.28	10.94	85915605	70691173	87.852	95.623	87.9	95.6	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Quantitation Report

1st *JTC* 04/01/21
2nd *SW* 04/01/21

Data File: J:\GC34\DATA\033121\03310000034.D\	Instrument: K-GC-34
Acqu Date: 3/31/21 21:42:28	Vial: 3
Run Type: CCV	Dilution: 1
Lab ID: KQ2104596-03	Raw Units: ppb

Bottle ID:	Tier: II	Matrix: Soil
Prod Code: HERB	Collect Date: 2/15/21	Receive Date: 2/15/21

Analysis Lot: 717383	Prep Lot:	Report Group: KQ2104596
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		% Rec		Rpt?
					Conc 1	Conc 2	1	2	
2,4-Dichlorophenylacetic Acid	11.02	9.48	90697007	33409222	88.030	89.209			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		Final		Rpt?
					Conc 1	Conc 2	Conc 1	Conc 2	
2,4,5-T	13.73	12.05	299459177	108880146	88.807	94.570	88.8	94.6	Y
2,4,5-TP (Silvex)	13.35	11.51	388993427	145366451	90.668	99.374	90.7	99.4	Y
2,4-D	12.28	10.94	85915605	70691173	87.852	95.623	87.9	95.6	Y
2,4-DB	14.33	12.55	37516271	13481845	85.960	90.207	86.0	90.2	Y
Dalapon	5.69	4.84	89768044	45426860	91.785	95.715	91.8	95.7	Y
Dicamba	11.15	9.67	316630470	114844762	96.315	95.639	96.3	95.6	Y
Dichlorprop	11.98	10.75	86998853	32185504	91.439	92.459	91.4	92.5	Y
Dinoseb	14.48	12.44	230120553	91474056	88.925	99.119	88.9	99.1	Y
MCPA	11.56	10.31	60468012	32882997	8856.039	9336.906	8860	9340	Y
MCPP	11.31	10.02	39291827	20645955	8634.709	9190.386	8630	9190	Y

Prep Amount: 30.00 g	Dilution: 1
Prep Final Amount: 50.00 mL	Basis Factor: 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Quantitation Report

1st *JTC* 04/05/21
2nd *AW* 04/05/21

Data File: J:\GC34\DATA\033121\03310000034.D\	Instrument: K-GC-34
Acqu Date: 3/31/21 21:42:28	Vial: 9
Run Type: CCV	Dilution: 1
Lab ID: KQ2105296-05	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/17/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot:	Report Group: KQ2105296
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		% Rec		Rpt?
					Conc 1	Conc 2	1	2	
2,4-Dichlorophenylacetic Acid	11.02	9.48	90697007	33409222	88.030	89.209			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		Final		Rpt?
					Conc 1	Conc 2	Conc 1	Conc 2	
2,4,5-TP (Silvex)	13.35	11.51	388993427	145366451	90.668	99.374	90.7	99.4	Y
2,4-D	12.28	10.94	85915605	70691173	87.852	95.623	87.9	95.6	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\GC34\DATA\033121\03310000034.D Vial: 24
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31-Mar-2021, 21:42:28 Operator: JTC
 Sample : PENTA02-25J 100PPB CCV Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 08:13:37 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.020	9.483	90697007	33409222	88.030	89.209
Target Compounds						
1) m Dalapon	5.690	4.843	89768044	45426860	91.785	95.715
3) m Dicamba	11.150	9.667	316.6E6	114.8E6	96.315	95.639
4) m MCPP	11.307	10.017	39291827	20645955	8634.709	9190.386
5) m MCPA	11.557	10.310	60468012	32882997	8856.039	9336.906
6) m Dichloroprop	11.980	10.753	86998853	32185504	91.439	92.459
7) m 2,4-D	12.280	10.943	85915605	70691173	87.852	95.623
8) m 2,4,5-TP ...	13.347	11.510	389.0E6	145.4E6	90.668	99.374
9) m 2,4,5-T	13.727	12.053	299.5E6	108.9E6	88.807	94.570
10) m 2,4-DB	14.327	12.550	37516271	13481845	85.960	90.207
11) m Dinoseb	14.477	12.440	230.1E6	91474056	88.925	99.119

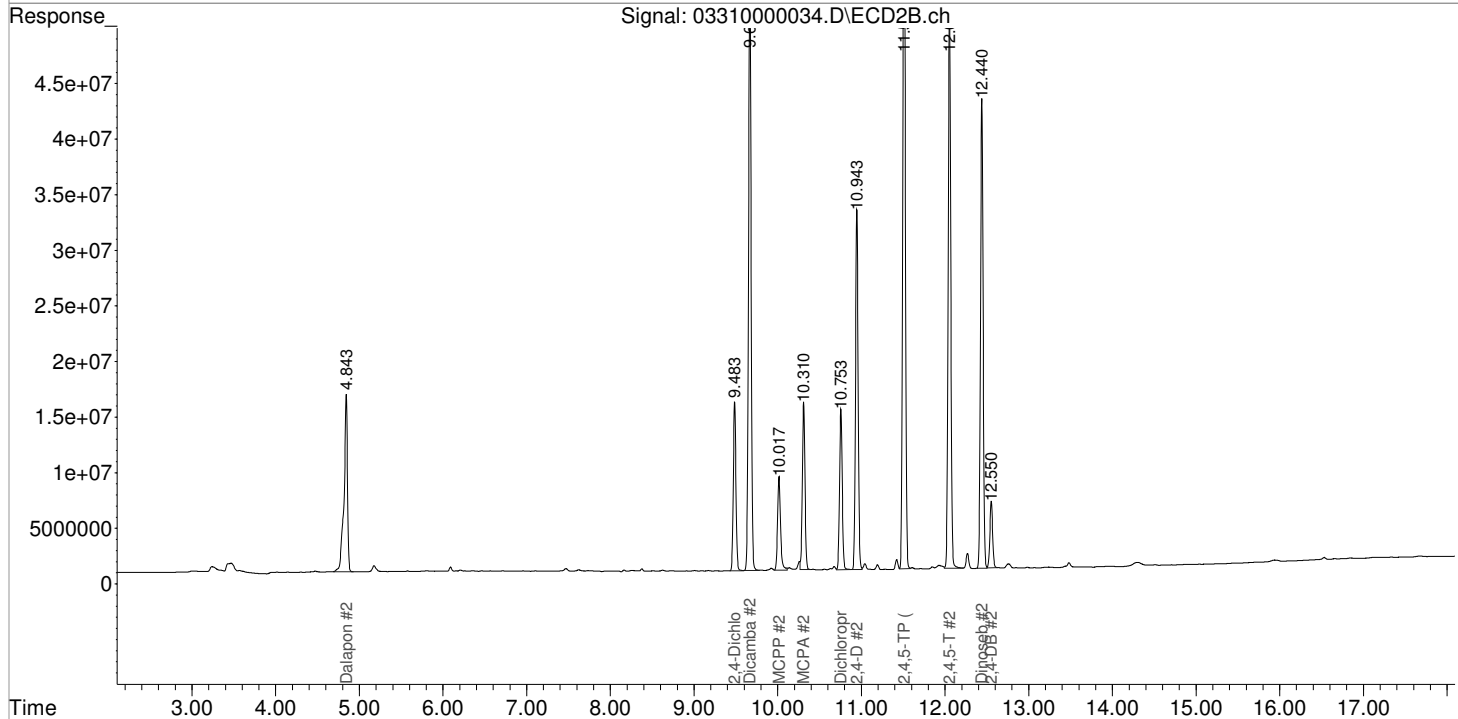
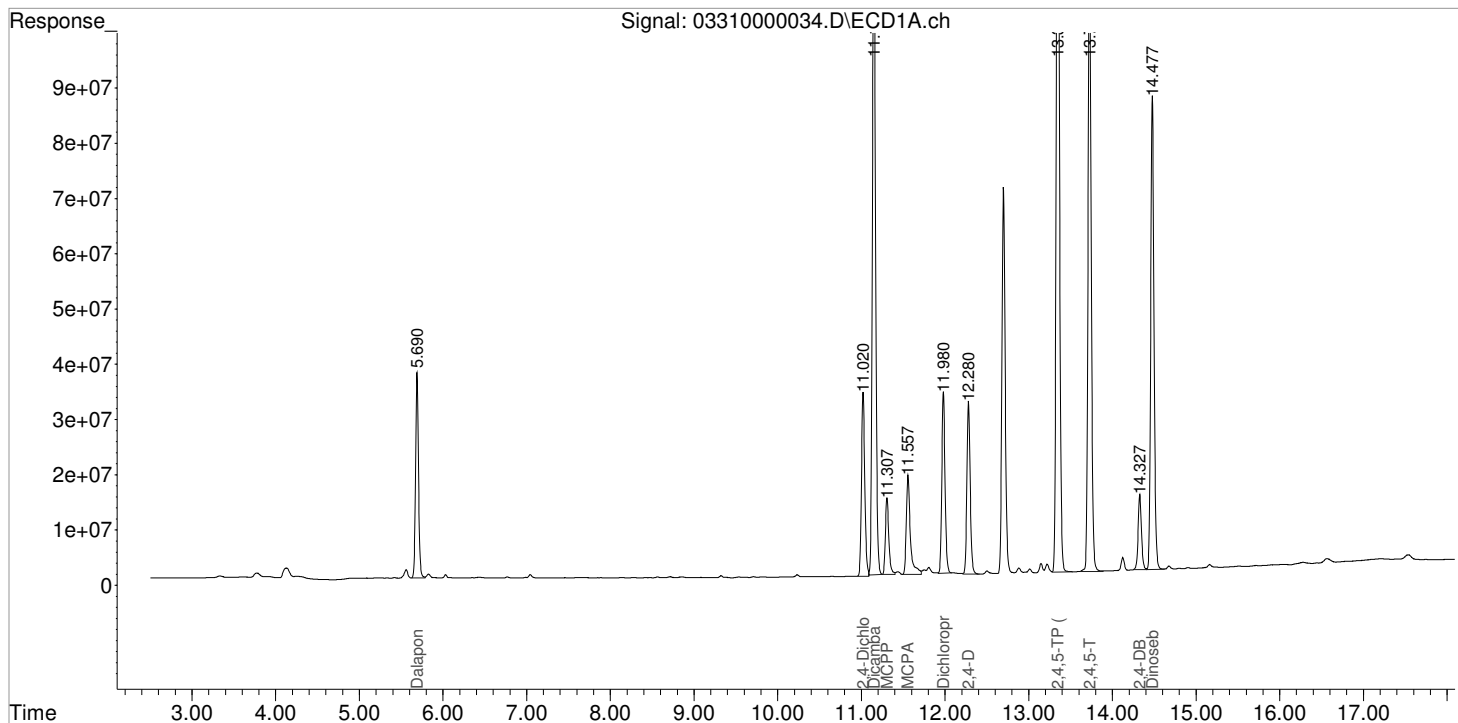
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\03310000034.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31-Mar-2021, 21:42:28
 Sample : PENTA02-25J 100PPB CCV
 Misc :
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 08:13:37 2021
 Quant Results File: 031721_8151.RES

Vial: 24
 Operator: JTC
 Inst : GCI
 Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/05/21
2nd SW 04/05/21

Data File: J:\GC34\DATA\033121\03310000048.D\
Lab ID: KQ2105296-07
RunType: CCV
Matrix: Soil

Date Acquired: 4/1/21 03:22:31
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/05/21
2nd *SW* 04/05/21

Data File: J:\GC34\DATA\033121\03310000048.D\	Instrument: K-GC-34
Acqu Date: 4/1/21 03:22:31	Vial: 11
Run Type: CCV	Dilution: 1
Lab ID: KQ2105296-07	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/17/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot:	Report Group: KQ2105296
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		% Rec		Rpt?
					Conc 1	Conc 2	1	2	
2,4-Dichlorophenylacetic Acid	11.02	9.48	91398526	33956809	88.711	90.671			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		Final		Rpt?
					Conc 1	Conc 2	Conc 1	Conc 2	
2,4,5-TP (Silvex)	13.35	11.51	406769208	151386146	94.811	103.489	94.8	103	Y
2,4-D	12.28	10.94	89969366	73206698	91.997	99.026	92.0	99.0	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\GC34\DATA\033121\03310000048.D Vial: 24
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01-Apr-2021, 03:22:31 Operator: JTC
 Sample : PENTA02-25J 100PPB CCV Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 08:13:43 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.020	9.483	91398526	33956809	88.711	90.671
Target Compounds						
1) m Dalapon	5.687	4.840	90433689	45916850	92.465	96.747
3) m Dicamba	11.150	9.667	322.3E6	116.5E6	98.026	97.021
4) m MCPP	11.303	10.013	39004625	20889750	8571.594	9310.713
5) m MCPA	11.557	10.310	62448991	33571844	9146.170	9532.500
6) m Dichloroprop	11.980	10.753	88249560	33455034	92.754	96.106
7) m 2,4-D	12.280	10.943	89969366	73206698	91.997	99.026
8) m 2,4,5-TP ...	13.347	11.510	406.8E6	151.4E6	94.811	103.489
9) m 2,4,5-T	13.727	12.050	317.2E6	116.5E6	94.070	101.232
10) m 2,4-DB	14.327	12.550	42347807	14324066	97.030	95.843
11) m Dinoseb	14.477	12.440	250.4E6	97265797	96.765	105.395

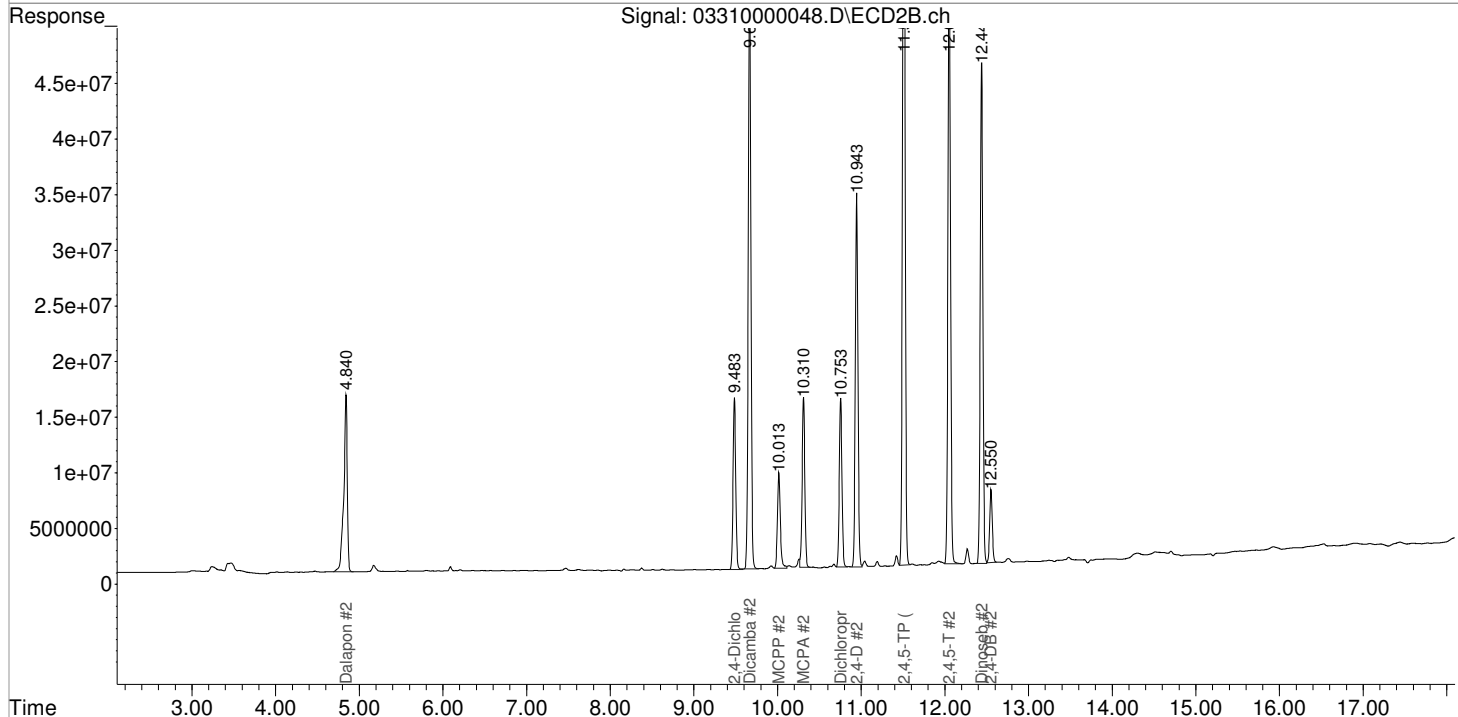
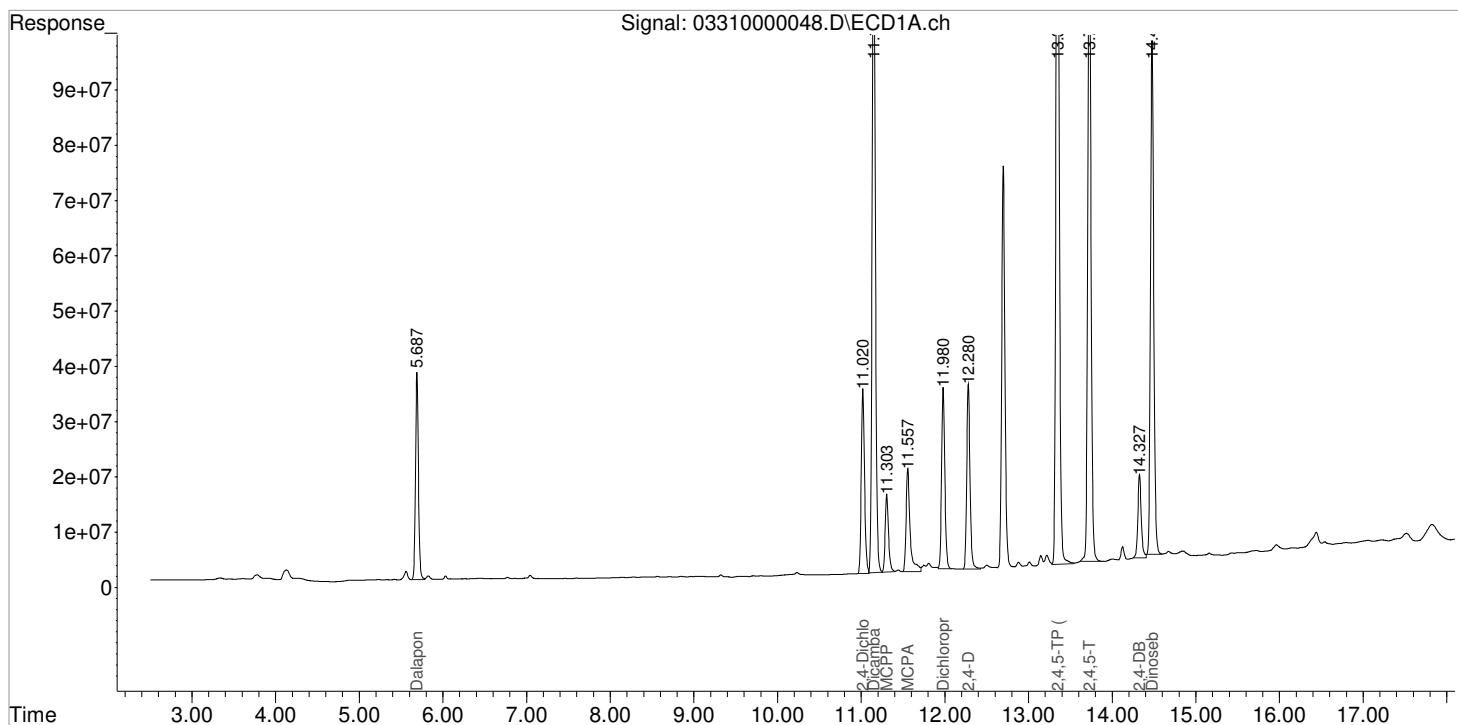
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\03310000048.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01-Apr-2021, 03:22:31
 Sample : PENTA02-25J 100PPB CCV
 Misc :
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 08:13:43 2021
 Quant Results File: 031721_8151.RES

Vial: 24
 Operator: JTC
 Inst : GCI
 Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Validation Report

1st JTC 04/05/21
2nd SW 04/05/21

Data File: J:\GC34\DATA\033121\03310000058.D\
Lab ID: KQ2105296-09
RunType: CCV
Matrix: Soil

Date Acquired: 4/1/21 07:24:03
Batch ID: 718558
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *JTC* 04/05/21
2nd *AW* 04/05/21

Data File: J:\GC34\DATA\033121\03310000058.D\	Instrument: K-GC-34
Acqu Date: 4/1/21 07:24:03	Vial: 13
Run Type: CCV	Dilution: 1
Lab ID: KQ2105296-09	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Soil
Prod Code: HERB	Collect Date: 3/17/21	Receive Date: 3/19/21

Analysis Lot: 718558	Prep Lot:	Report Group: KQ2105296
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100138
	Report List ID: 18845

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		% Rec		Rpt?
					Conc 1	Conc 2	1	2	
2,4-Dichlorophenylacetic Acid	11.02	9.49	92221511	33951144	89.510	90.656			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		Final		Rpt?
					Conc 1	Conc 2	Conc 1	Conc 2	
2,4,5-TP (Silvex)	13.35	11.51	404687259	151086172	94.326	103.284	94.3	103	Y
2,4-D	12.28	10.95	90019374	73101730	92.048	98.884	92.0	98.9	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\GC34\DATA\033121\03310000058.D Vial: 24
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01-Apr-2021, 07:24:03 Operator: JTC
 Sample : PENTA02-25J 100PPB CCV Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 08:13:49 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.020	9.487	92221511	33951144	89.510	90.656
Target Compounds						
1) m Dalapon	5.693	4.847	90903310	45765583	92.945	96.428
3) m Dicamba	11.150	9.670	323.6E6	116.7E6	98.446	97.210
4) m MCPP	11.307	10.017	39536558	20859871	8688.491	9295.962
5) m MCPA	11.557	10.313	62795004	33649849	9196.846	9554.649
6) m Dichloroprop	11.980	10.757	89524246	33560086	94.093	96.408
7) m 2,4-D	12.280	10.947	90019374	73101730	92.048	98.884
8) m 2,4,5-TP ...	13.350	11.513	404.7E6	151.1E6	94.326	103.284
9) m 2,4,5-T	13.727	12.053	316.8E6	116.9E6	93.942	101.545
10) m 2,4-DB	14.327	12.553	44758781	14311741	102.555	95.760
11) m Dinoseb	14.477	12.440	247.4E6	96119992	95.596	104.153

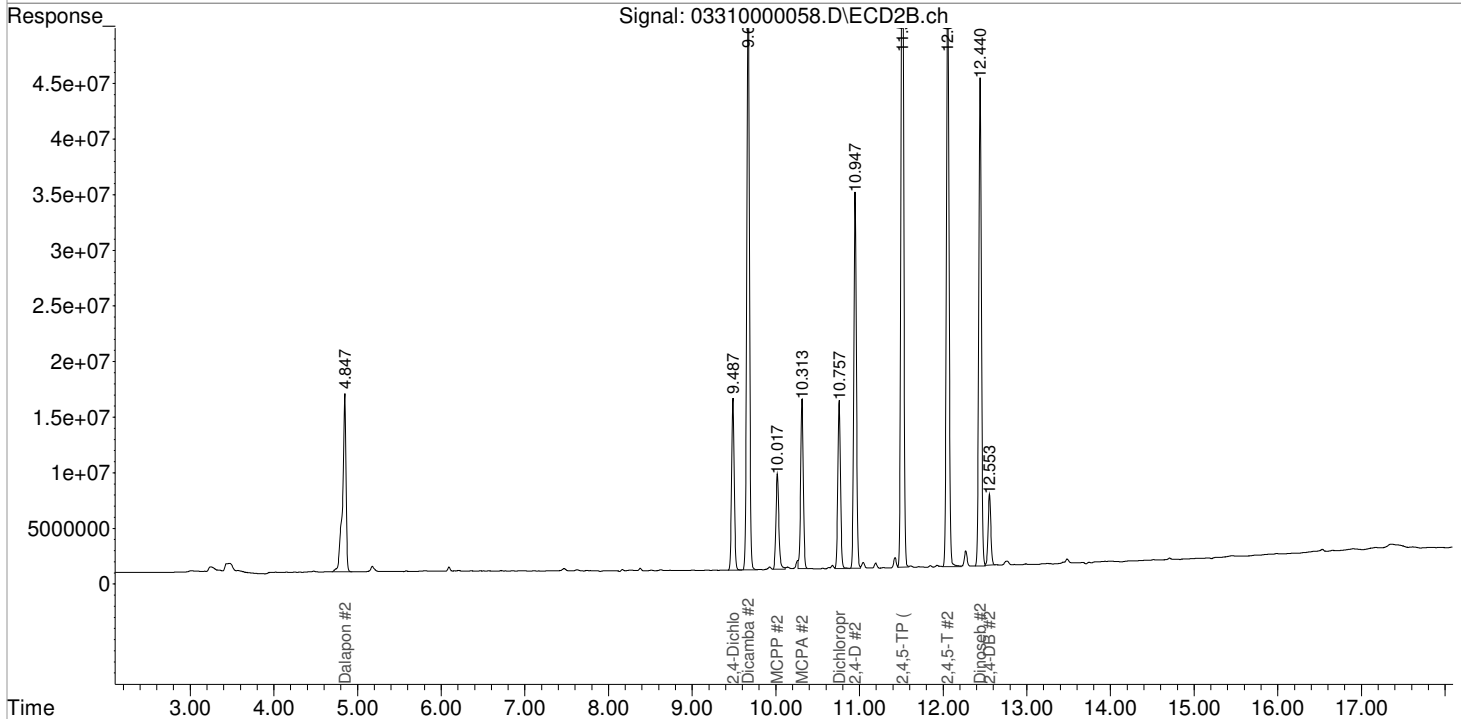
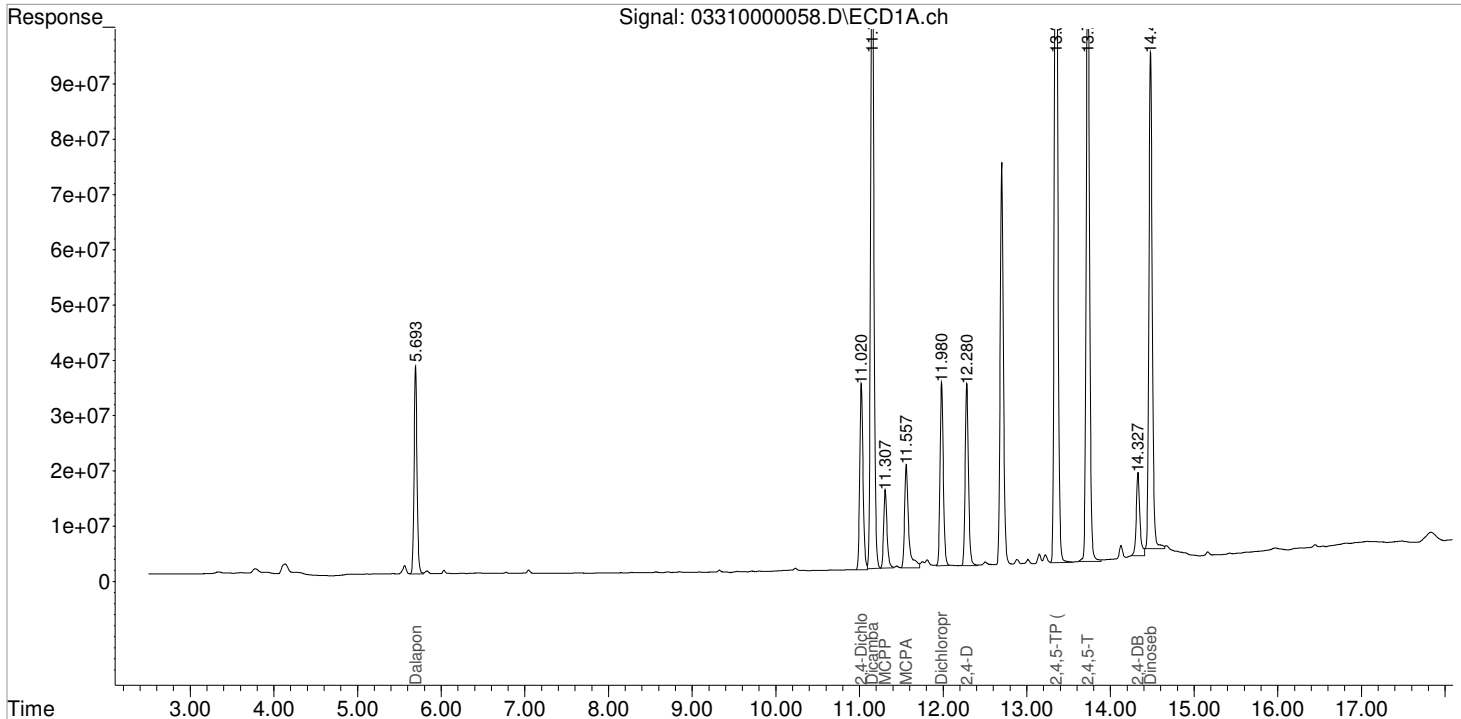
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\033121\03310000058.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01-Apr-2021, 07:24:03
 Sample : PENTA02-25J 100PPB CCV
 Misc :
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Apr 01 08:13:49 2021
 Quant Results File: 031721_8151.RES

Vial: 24
 Operator: JTC
 Inst : GCI
 Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Location	SampleName DataFile LimsID	Method	Inj	SampleType	InjVolume
1	Vial 100	PRIMER	8151A-17	1	Sample	
2	Vial 100	PRIMER	8151A-17	1	Sample	
3	Vial 1	PENTA02-24J-100PPB	8151A-17	1	Sample	
4	Vial 2	IB	8151A-17	1	Sample	
5	Vial 10	PENTA02-25D-10PPB	8151A-17	1	Sample	
6	Vial 11	PENTA02-25E-25PPB	8151A-17	1	Sample	
7	Vial 3	PENTA02-24K-75PPB	8151A-17	1	Sample	
8	Vial 4	PENTA02-24L-100PPB	8151A-17	1	Sample	
9	Vial 5	PENTA02-24M-125PPB	8151A-17	1	Sample	
10	Vial 6	PENTA02-24N-150PPB	8151A-17	1	Sample	
11	Vial 7	PENTA02-25A-175PPB	8151A-17	1	Sample	
12	Vial 8	PENTA02-25B-200PPB	8151A-17	1	Sample	
13	Vial 9	PENTA02-25C-100PPB I CV	8151A-17	1	Sample	
14	Vial 1	PENTA02-24J-100PPB	8151A-17	1	Sample	
15	Vial 16	KQ2103635-04 MB ①	8151A-17	1	Sample	
16	Vial 17	KQ2103635-03 LCS	8151A-17	1	Sample	
17	Vial 18	K2102417-006 MS	8151A-17	1	Sample	
18	Vial 19	K2102417-006 DMS	8151A-17	1	Sample	
19	Vial 20	K2102417-001	8151A-17	1	Sample	
20	Vial 21	K2102417-002	8151A-17	1	Sample	
21	Vial 22	K2102417-003	8151A-17	1	Sample	
22	Vial 23	K2102417-004	8151A-17	1	Sample	
23	Vial 24	K2102417-005	8151A-17	1	Sample	
24	Vial 25	K2102417-006	8151A-17	1	Sample	

① Method Blank acting as IB 3.17.21 JTC

Data File : J:\GC34\DATA\031721\03170000004.D Vial: 2
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17-Mar-2021, 11:30:20 Operator: JTC
 Sample : IB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 17 15:53:33 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue Mar 02 07:39:59 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
System Monitoring Compounds							
2) s 2,4-Dichl...	11.057f	0.000	326453	0	0.305	N.D.	#
Target Compounds							
1) m Dalapon	0.000	4.890f	0	26146	N.D.	0.059	#
3) m Dicamba	0.000	0.000	0	0	N.D.	N.D.	
4) m MCPP	11.340	0.000	137261	0	983764.408	N.D.	#
5) m MCPA	0.000	10.270	0	896176	N.D.	264.173	#
6) m Dichloroprop	11.927f	10.767	92423	34823	0.091m	0.102	
7) m 2,4-D	0.000	10.940	0	271604	N.D.	0.372	#
8) m 2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.	
9) m 2,4,5-T	0.000	0.000	0	0	N.D.	N.D.	
10) m 2,4-DB	0.000	0.000	0	0	N.D.	N.D.	
11) m Dinoseb	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

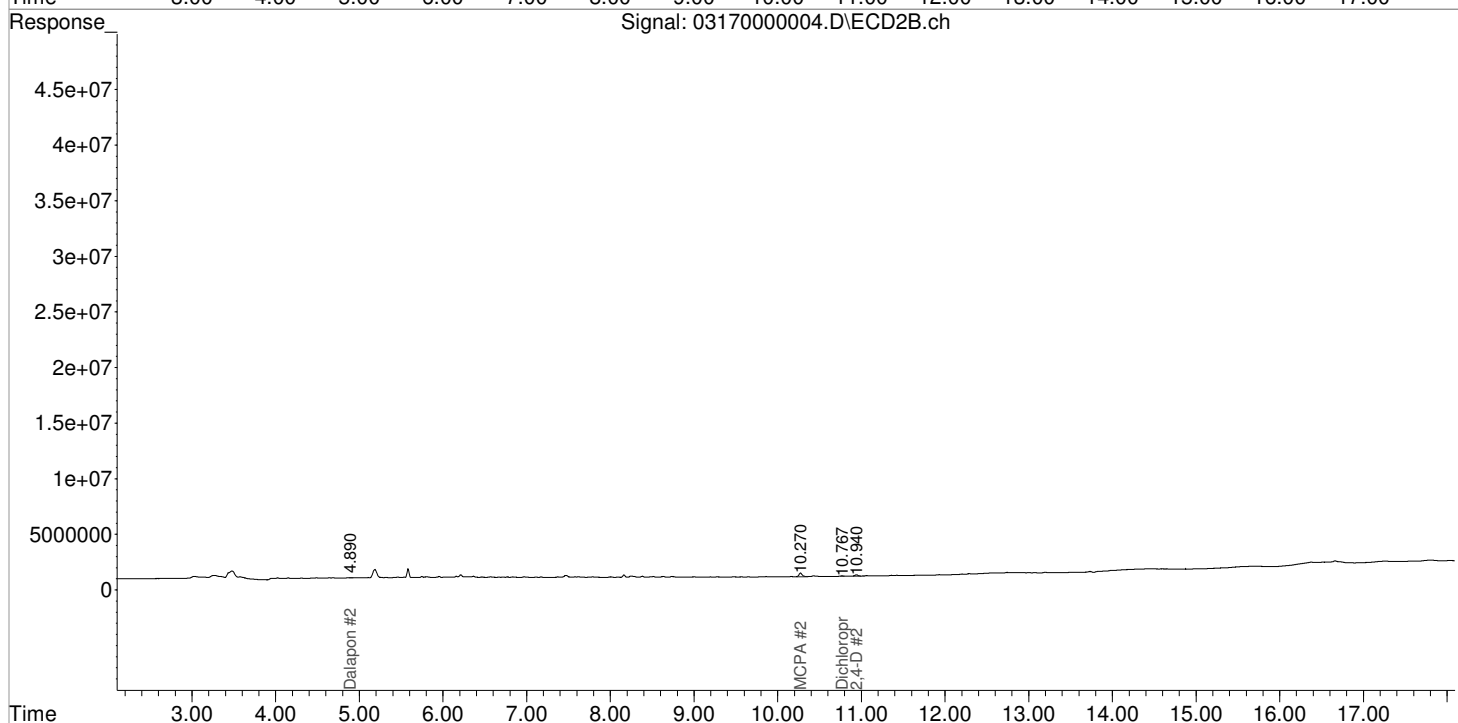
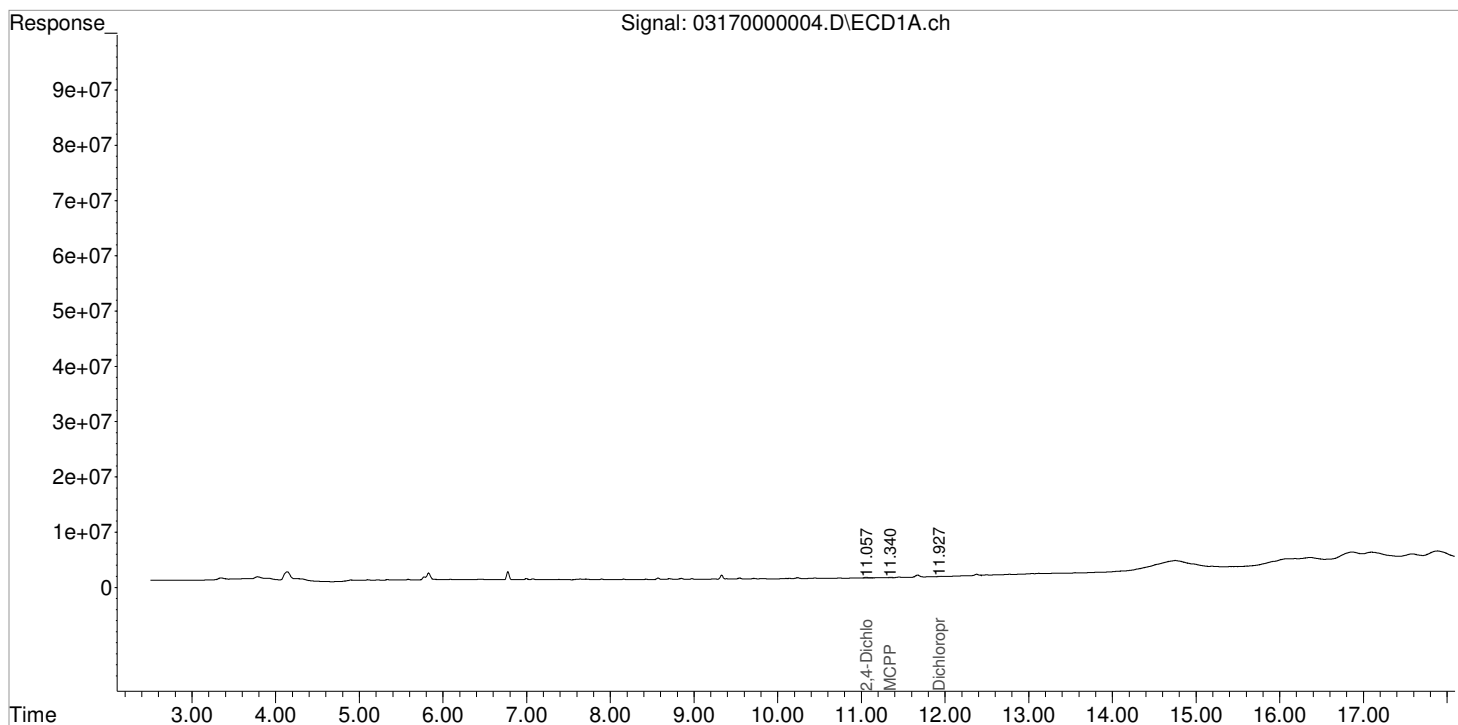
Data File : J:\GC34\DATA\031721\0317000004.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17-Mar-2021, 11:30:20
 Sample : IB
 Misc :

Vial: 2
 Operator: JTC
 Inst : GCI
 Multiplr: 1.00

Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 17 15:53:33 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue Mar 02 07:39:59 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

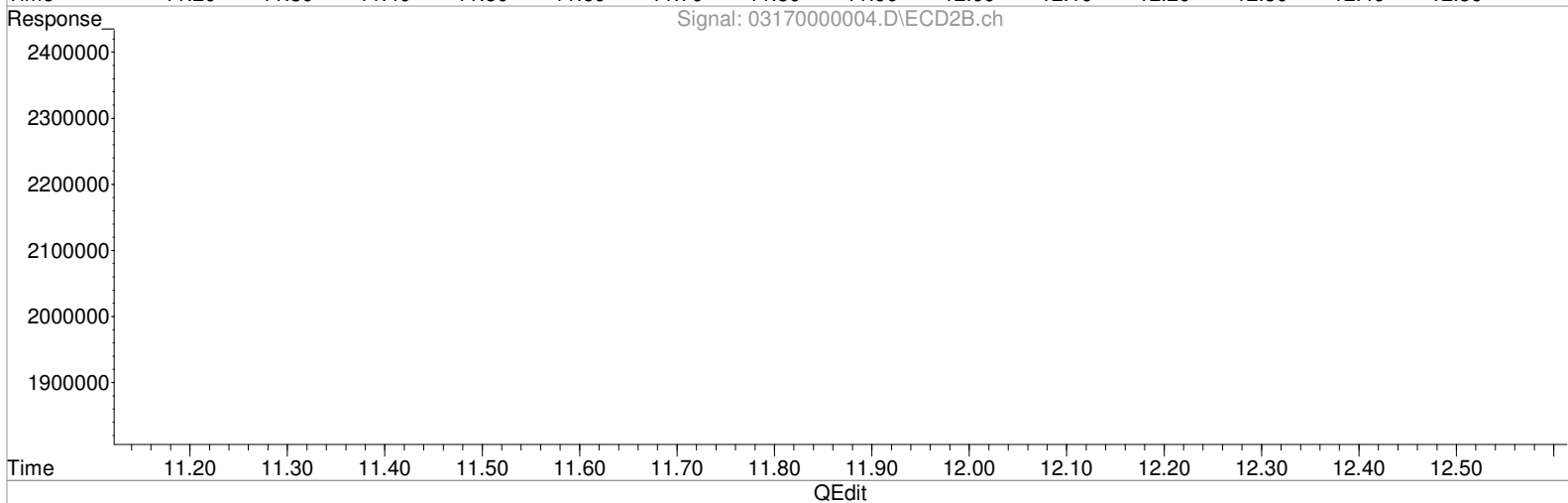
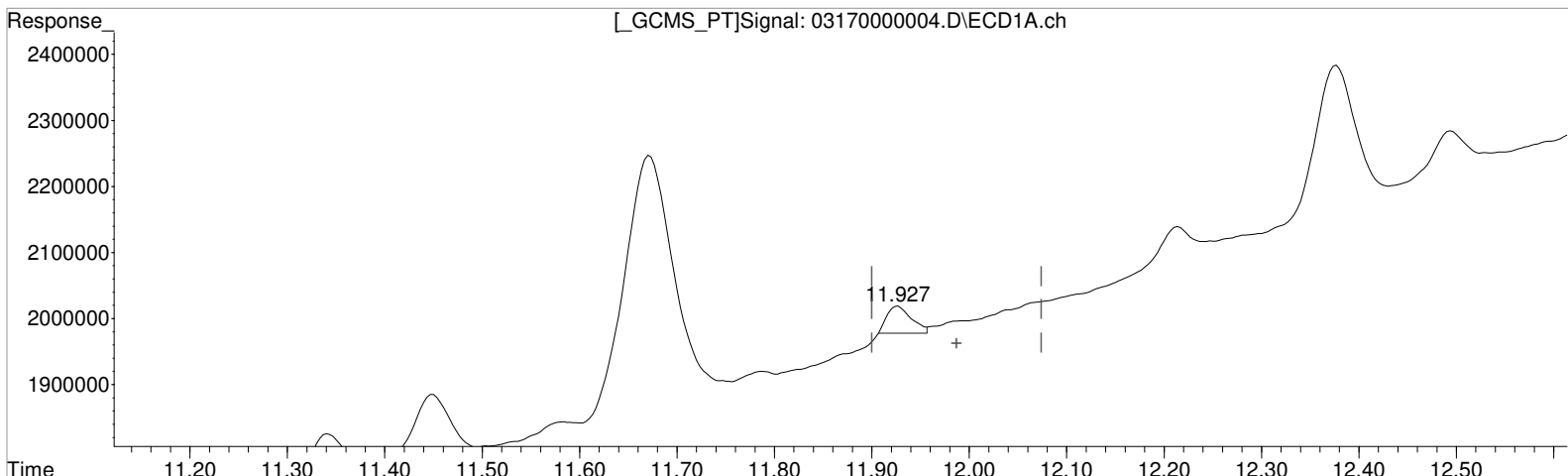
Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\031721\03170000004.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 11:30:20 Operator: JTC
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 15:52:34 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



(6) Dichloroprop (m)
11.927min 0.072 ppb
response 72871

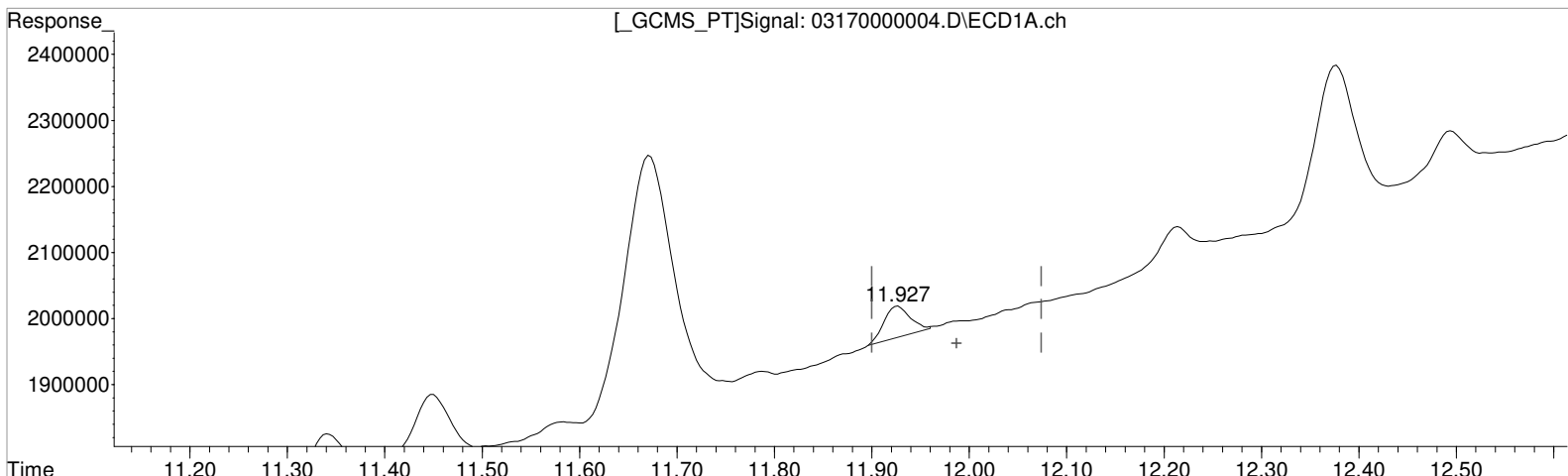
Manual Integration:
Before
03/17/21

(6) Dichloroprop #2 (m)
10.767min 0.102 ppb
response 34823

Data File : J:\GC34\DATA\031721\03170000004.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 11:30:20 Operator: JTC
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 15:52:34 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



(6) Dichloroprop (m)
11.927min 0.091 ppb m
response 92423

(6) Dichloroprop #2 (m)
10.767min 0.102 ppb
response 34823

Manual Integration:
After
Baseline/Shoulder
03/17/21

Data File : J:\GC34\DATA\031721\03170000005.D Vial: 10
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17-Mar-2021, 11:54:19 Operator: JTC
 Sample : PENTA02-25D-10PPB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 17 16:02:27 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue Mar 02 07:39:59 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.030	9.493	9440183	4013214	8.829	11.014
Target Compounds						
1) m Dalapon	5.700	4.853	9222528	4807126	9.568	10.851
3) m Dicamba	11.160	9.677	27436279	11205207	8.453	9.568
4) m MCPP	11.317	10.027	5827642	3460219	821.984	937.409
5) m MCPA	11.567	10.320	7942697	3992596	616.552	1176.929 #
6) m Dichloroprop	11.990	10.763	8290825	3554203	8.155	10.369 #
7) m 2,4-D	12.290	10.957	7931923	7524047	7.330	10.305 #
8) m 2,4,5-TP ...	13.357	11.520	34147226	13208530	7.483	9.186
9) m 2,4,5-T	13.737	12.063	26037846	9893930	7.023	8.469
10) m 2,4-DB	14.337	12.563	3401377	1549863	6.431m	9.643 #
11) m Dinoseb	14.487	12.450	23264403	9246274	8.252m	10.114

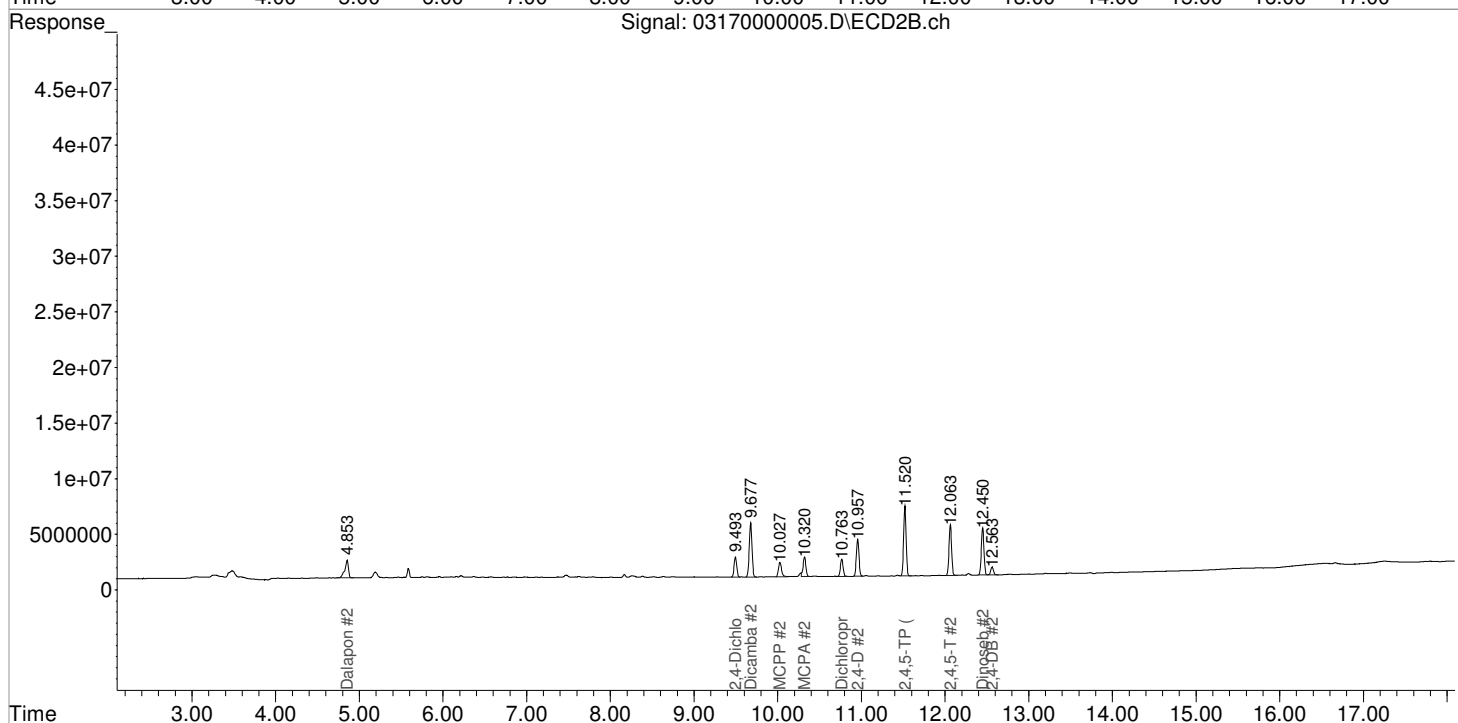
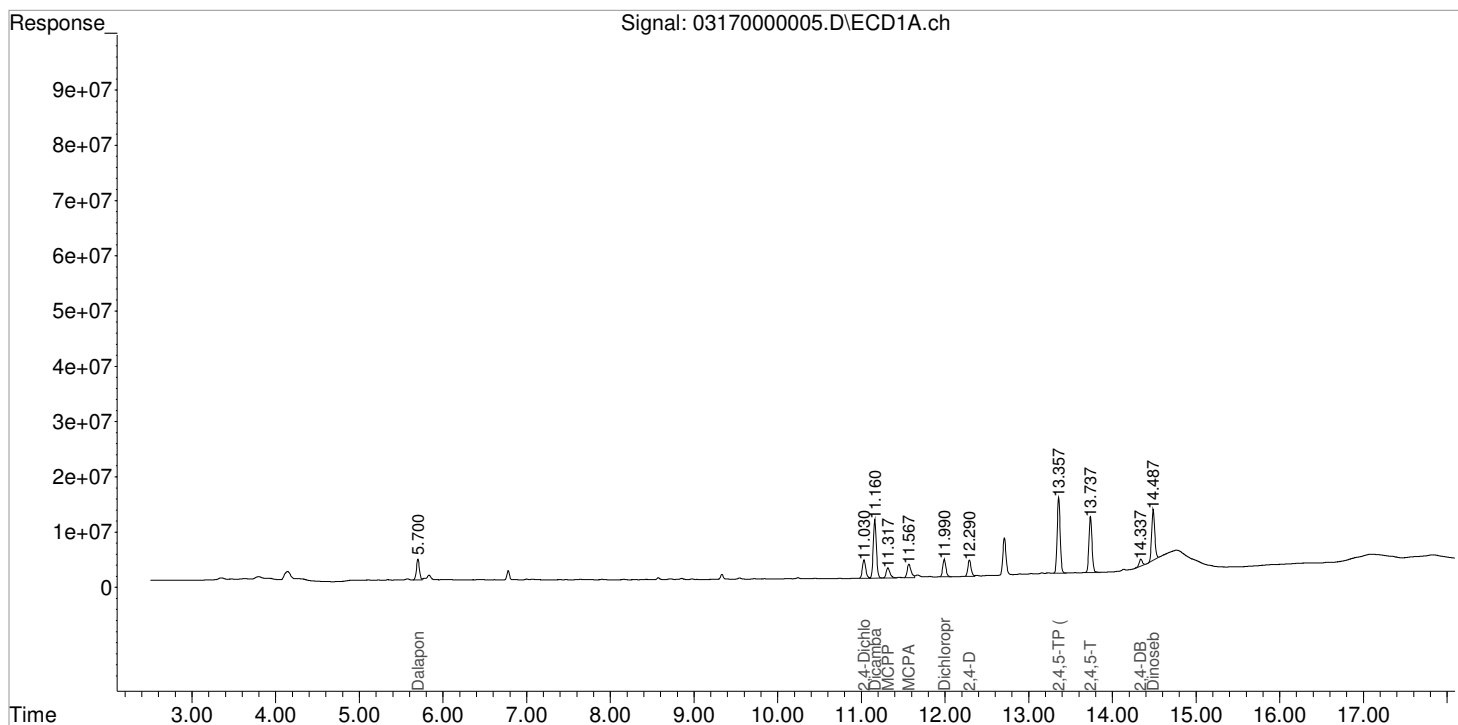
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\031721\03170000005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 11:54:19
Sample : PENTA02-25D-10PPB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:02:27 2021
Quant Results File: 031721_8151.RES

Vial: 10
Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

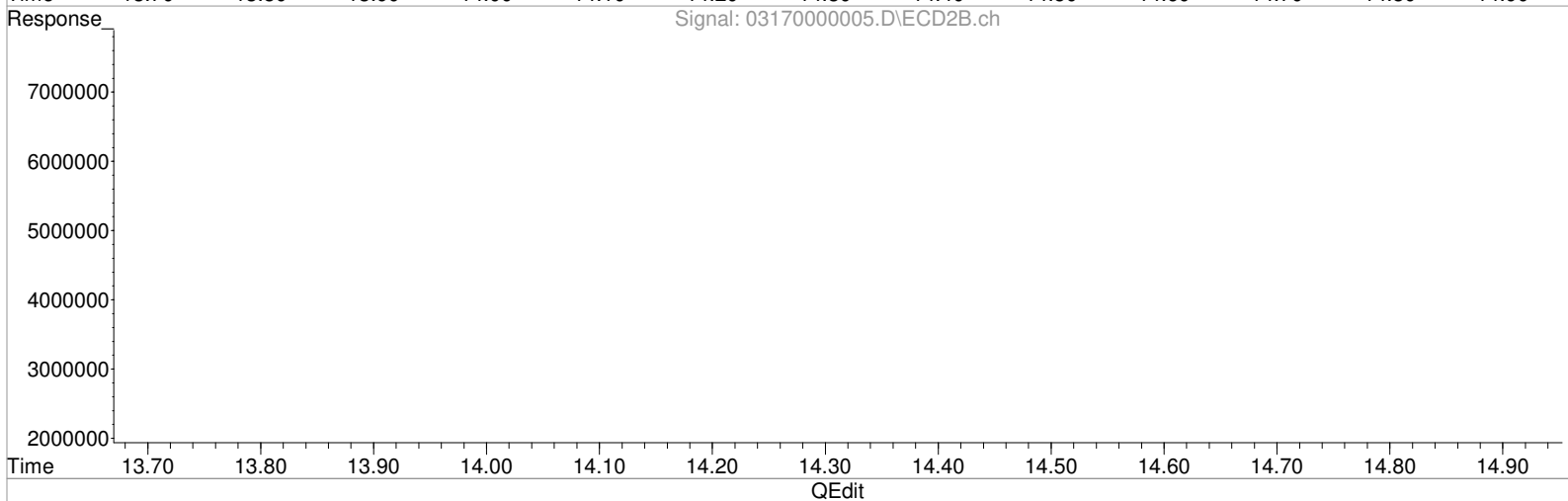
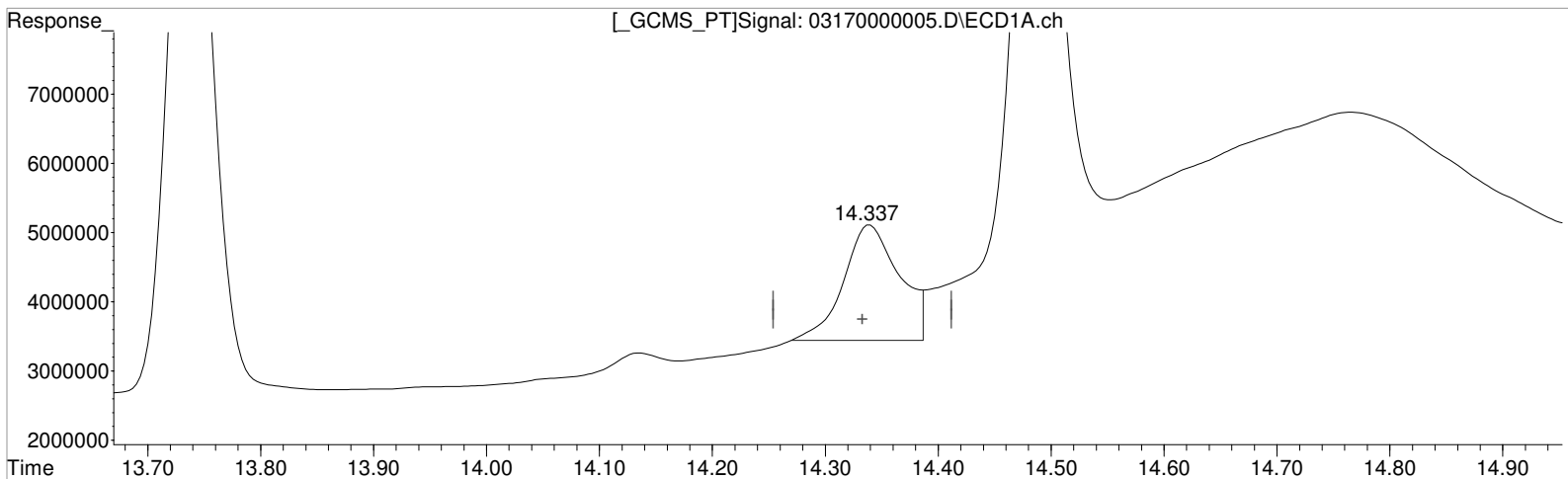
Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\031721\03170000005.D Vial: 10
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 11:54:19 Operator: JTC
Sample : PENTA02-25D-10PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:00:55 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



(10) 2,4-DB (m)
14.337min 11.011 ppb
response 5823881

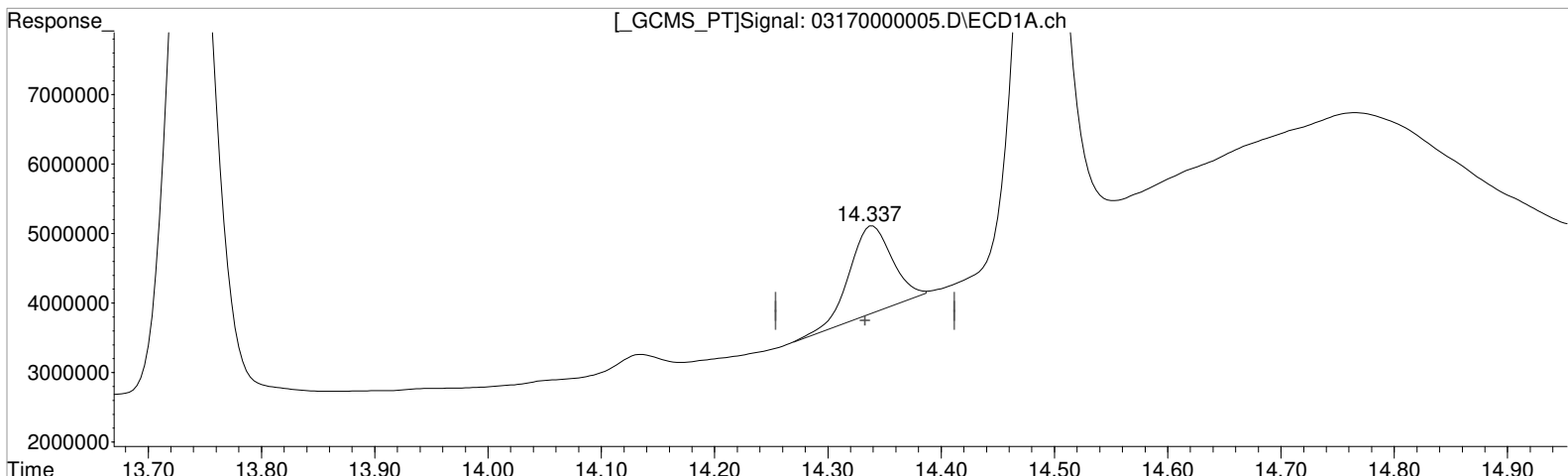
(10) 2,4-DB #2 (m)
12.563min 9.643 ppb
response 1549863

Manual Integration:
Before
03/17/21

Data File : J:\GC34\DATA\031721\03170000005.D Vial: 10
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 11:54:19 Operator: JTC
Sample : PENTA02-25D-10PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:00:55 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



(10) 2,4-DB (m)
14.337min 6.431 ppb m
response 3401377

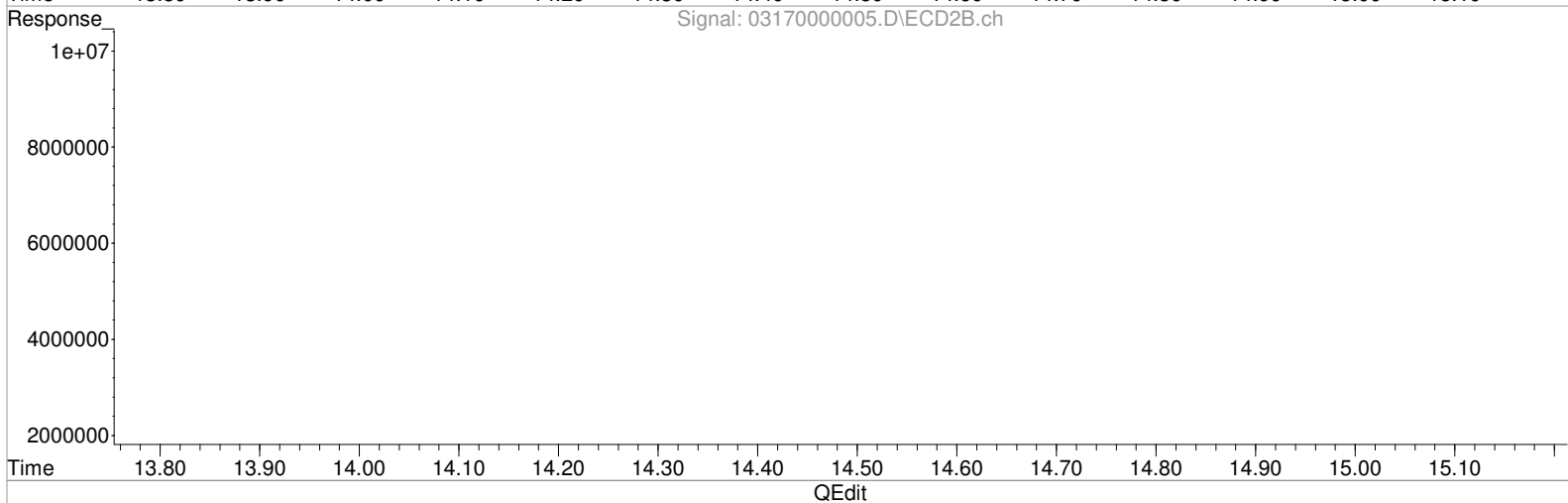
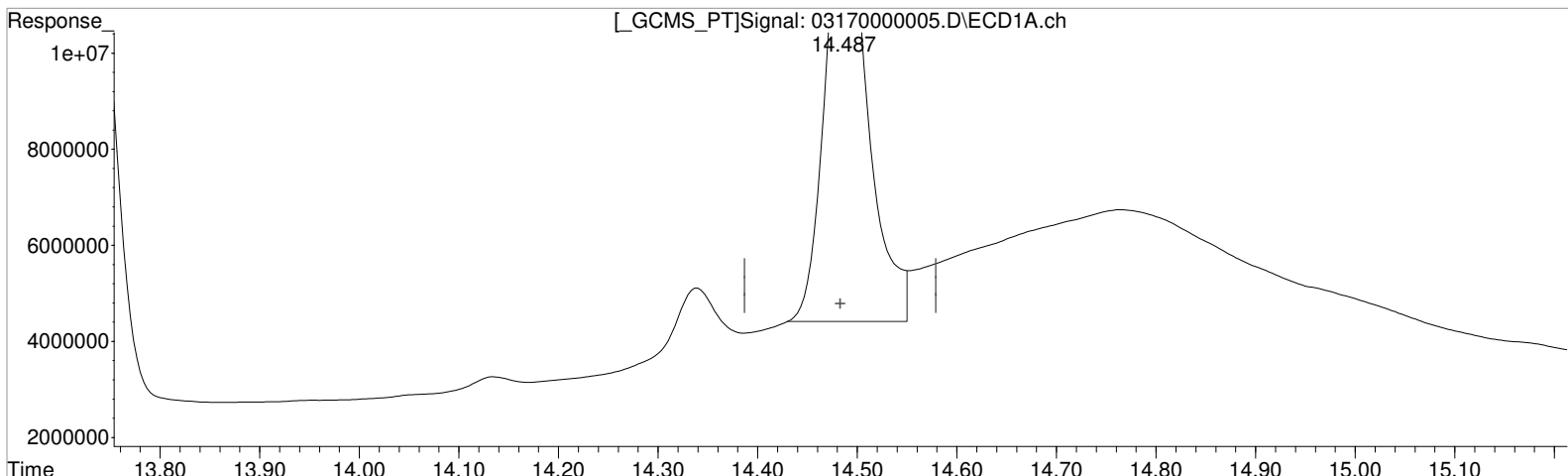
(10) 2,4-DB #2 (m)
12.563min 9.643 ppb
response 1549863

Manual Integration:
After
Baseline/Shoulder
03/17/21

Data File : J:\GC34\DATA\031721\03170000005.D Vial: 10
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 11:54:19 Operator: JTC
Sample : PENTA02-25D-10PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:00:55 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



(11) Dinoseb (m)
14.487min 9.629 ppb
response 27148573

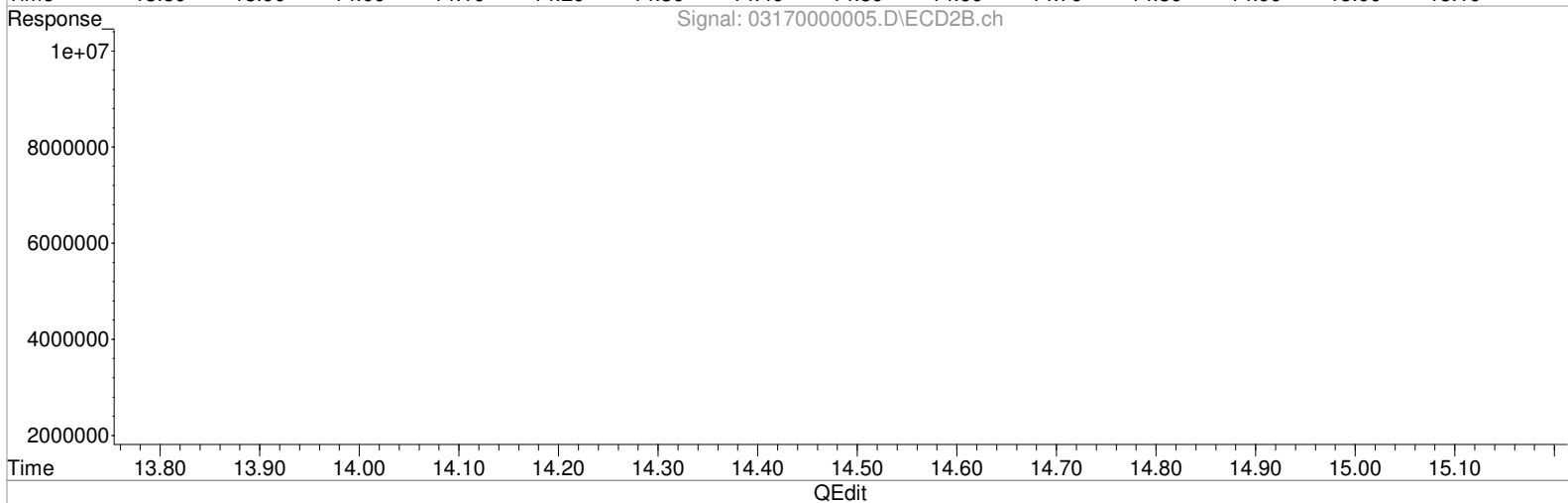
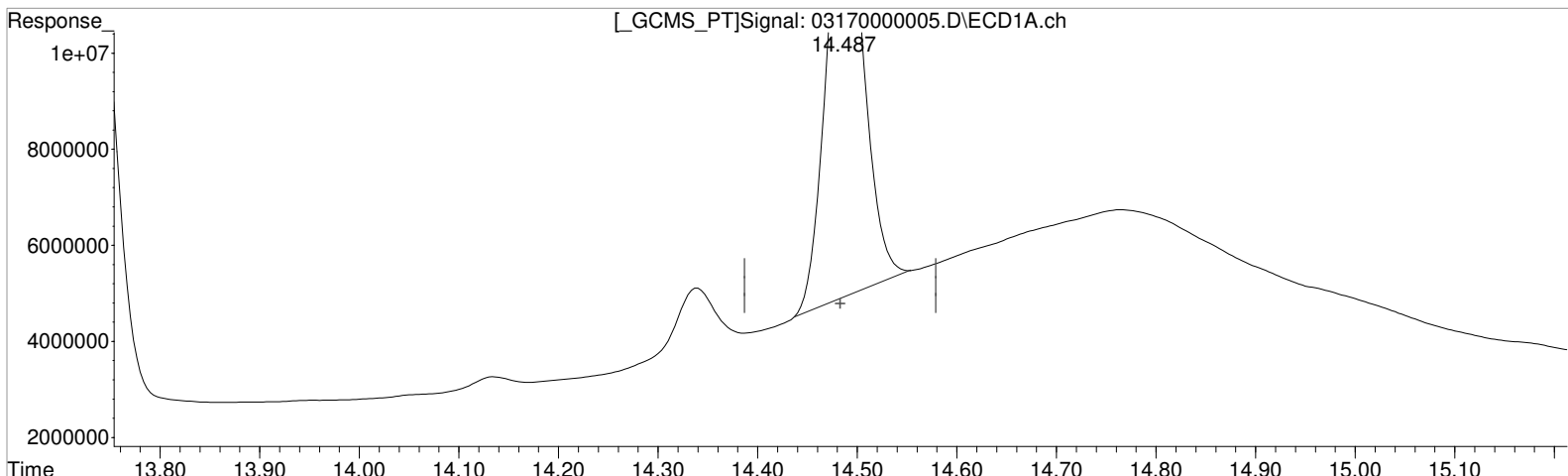
Manual Integration:
Before
03/17/21

(11) Dinoseb #2 (m)
12.450min 10.114 ppb
response 9246274

Data File : J:\GC34\DATA\031721\03170000005.D Vial: 10
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 11:54:19 Operator: JTC
Sample : PENTA02-25D-10PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:00:55 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



(11) Dinoseb (m)
14.487min 8.252 ppb m
response 23264403

Manual Integration:
After
Baseline/Shoulder
03/17/21

(11) Dinoseb #2 (m)
12.450min 10.114 ppb
response 9246274

Data File : J:\GC34\DATA\031721\03170000006.D Vial: 11
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17-Mar-2021, 12:18:20 Operator: JTC
 Sample : PENTA02-25E-25PPB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 17 16:00:58 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue Mar 02 07:39:59 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds							
2) s	2,4-Dichl...	11.023	9.490	23959127	9118341	22.408	25.024
Target Compounds							
1) m	Dalapon	5.693	4.847	22314960	11267259	23.151	25.434
3) m	Dicamba	11.153	9.670	75032714	27453768	23.117	23.441
4) m	MCPD	11.310	10.020	12028790	6976610	2353.286	2556.035
5) m	MCPA	11.560	10.313	18459878	8904546	2211.603	2624.863
6) m	Dichloroprop	11.983	10.760	22349532	8316593	21.984	24.263
7) m	2,4-D	12.283	10.950	21699215	17771339	20.053	24.339
8) m	2,4,5-TP ...	13.350	11.513	95055999	33758092	20.830	23.478
9) m	2,4,5-T	13.730	12.057	72358484	25564764	19.515	21.882
10) m	2,4-DB	14.330	12.557	10260529	3659006	19.399	22.766
11) m	Dinoseb	14.480	12.443	58714275	22285336	20.825	24.377

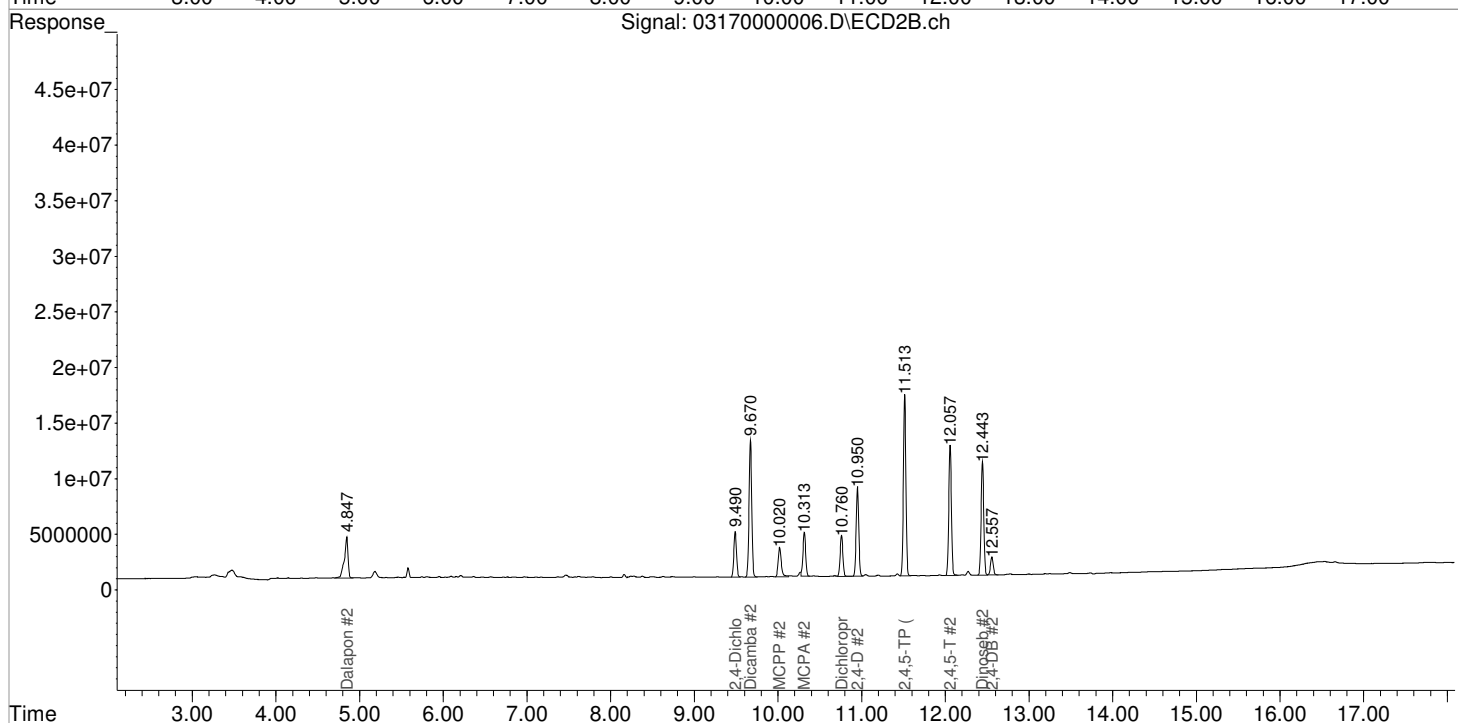
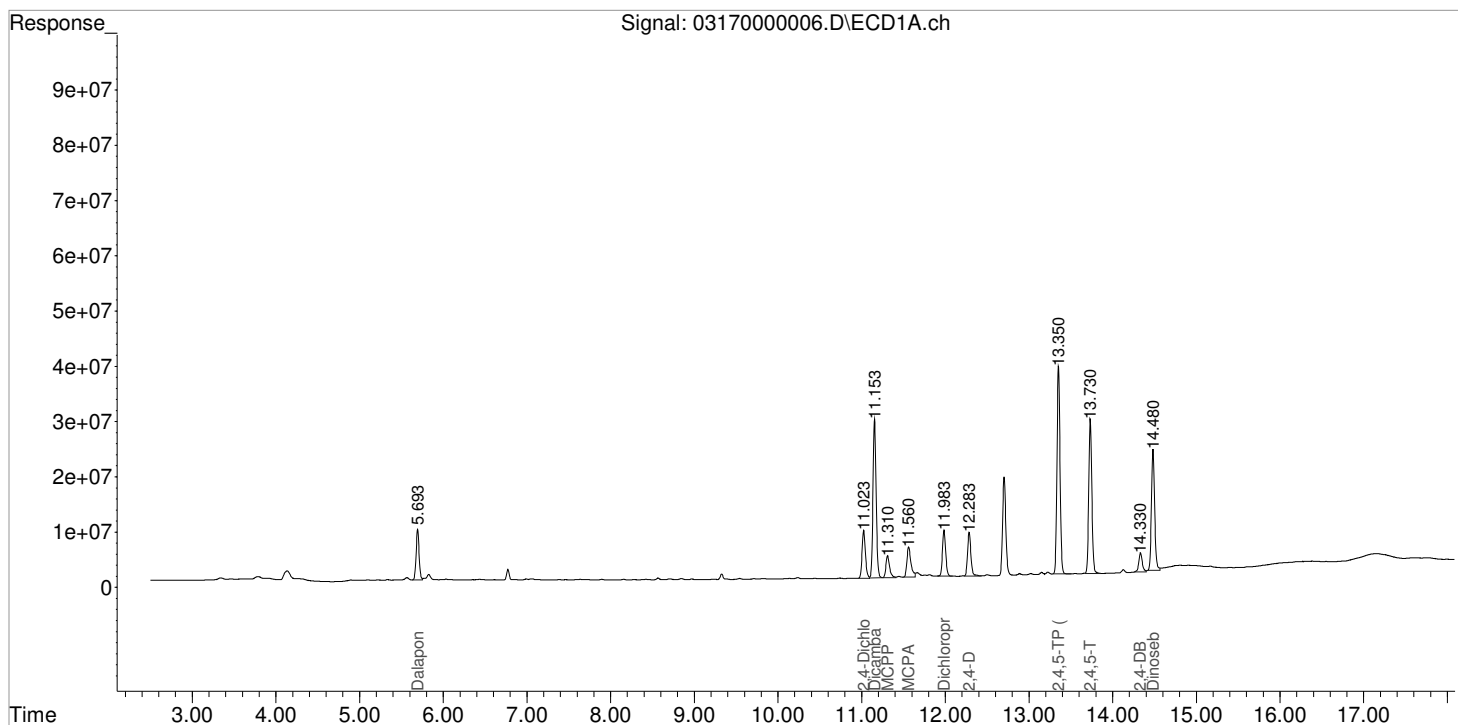
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\031721\03170000006.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17-Mar-2021, 12:18:20
 Sample : PENTA02-25E-25PPB
 Misc :
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 17 16:00:58 2021
 Quant Results File: 031721_8151.RES

Vial: 11
 Operator: JTC
 Inst : GCI
 Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue Mar 02 07:39:59 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\031721\03170000007.D Vial: 3
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17-Mar-2021, 12:42:34 Operator: JTC
 Sample : PENTA02-24K-75PPB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 17 16:03:17 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue Mar 02 07:39:59 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds							
2)	s 2,4-Dichl...	11.023	9.487	64867454	23249180	60.668	63.803
Target Compounds							
1)	m Dalapon	5.693	4.847	61575153	29713939	63.883	67.074
3)	m Dicamba	11.153	9.670	217.6E6	77670750	67.029	66.319
4)	m MCPP	11.310	10.020	29045853	15658331	6580.290	6746.670
5)	m MCPA	11.560	10.313	44209107	22643214	6221.087m	6674.719
6)	m Dichloroprop	11.983	10.760	63242298	22435856	62.209	65.454
7)	m 2,4-D	12.283	10.950	63212106	47899297	58.416	65.601
8)	m 2,4,5-TP ...	13.350	11.513	284.2E6	97013259	62.278	67.472
9)	m 2,4,5-T	13.733	12.057	220.2E6	75231735	59.380	64.395
10)	m 2,4-DB	14.330	12.557	28493848	9725604	53.872	60.512
11)	m Dinoseb	14.483	12.443	167.6E6	60004638	59.432	65.635

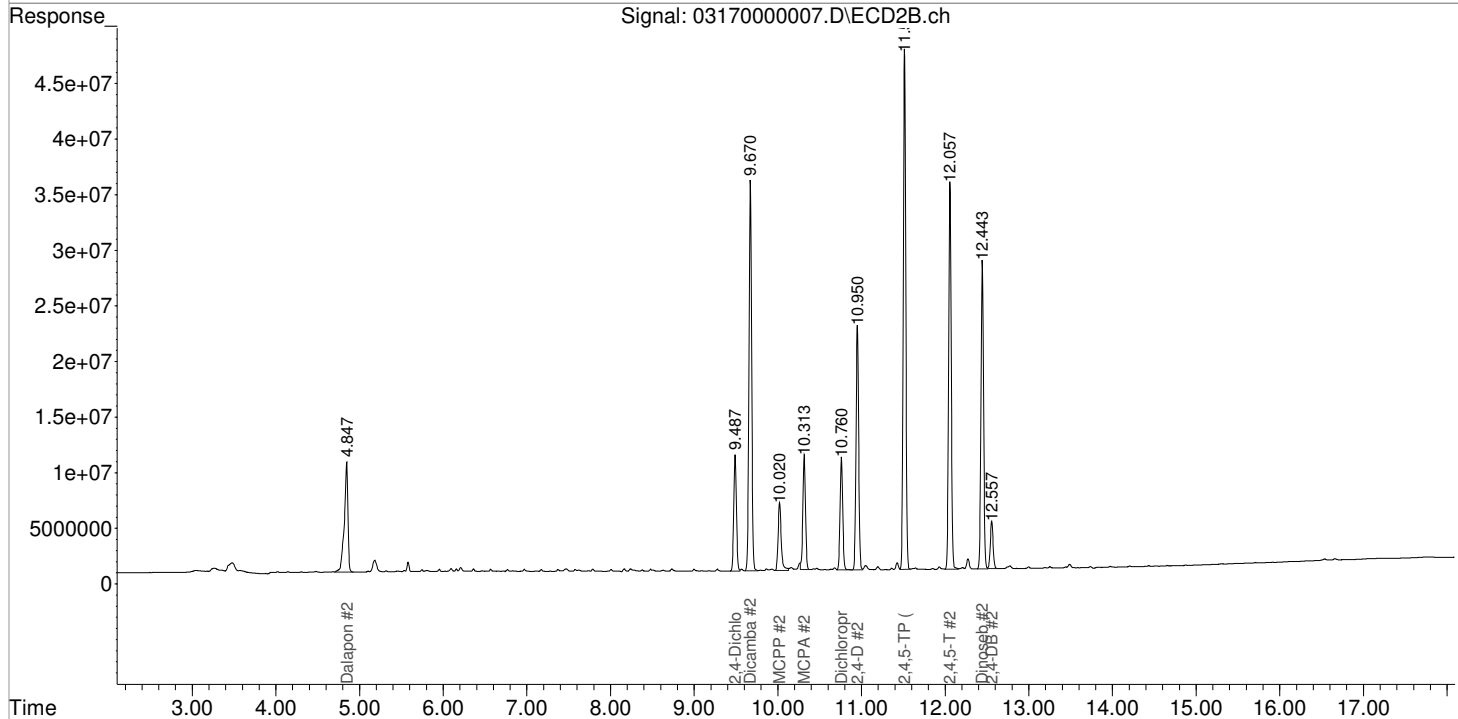
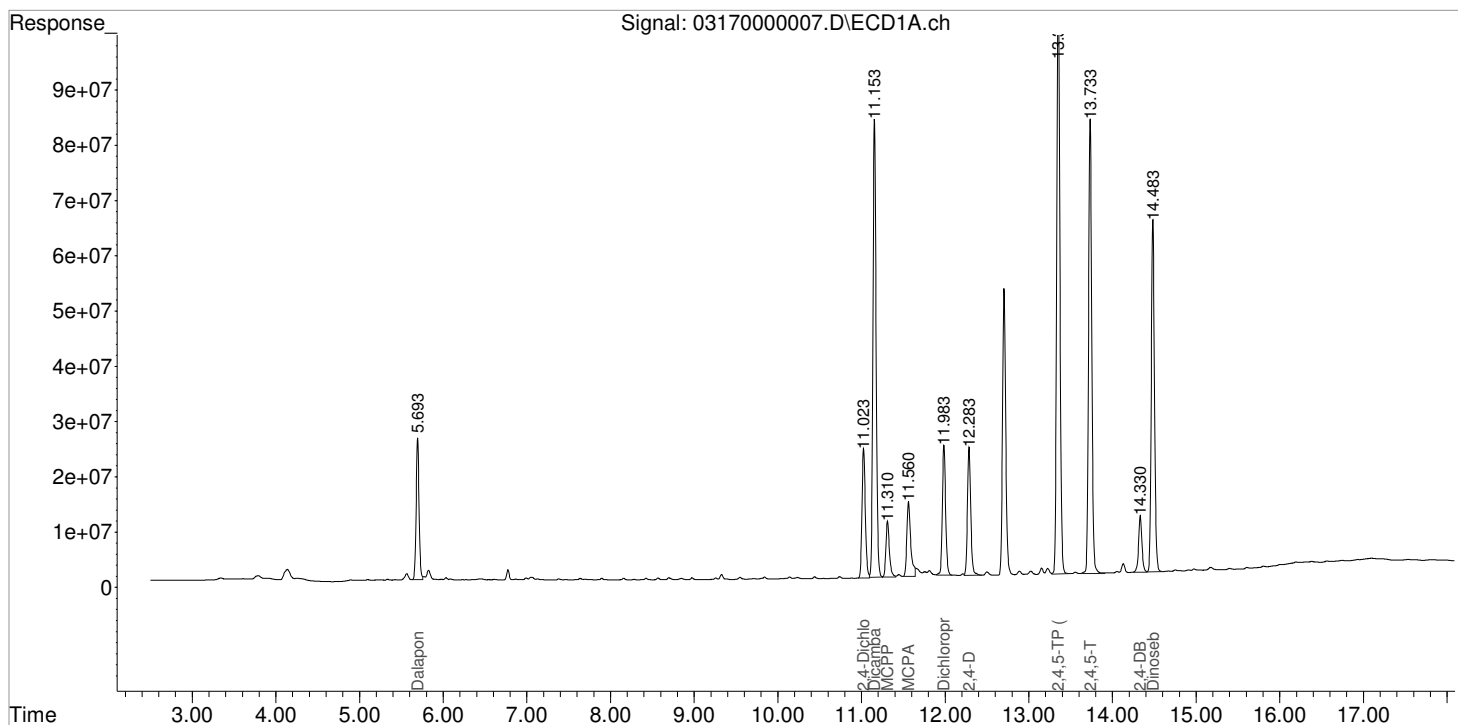
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\031721\0317000007.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17-Mar-2021, 12:42:34
 Sample : PENTA02-24K-75PPB
 Misc :
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 17 16:03:17 2021
 Quant Results File: 031721_8151.RES

Vial: 3
 Operator: JTC
 Inst : GCI
 Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue Mar 02 07:39:59 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

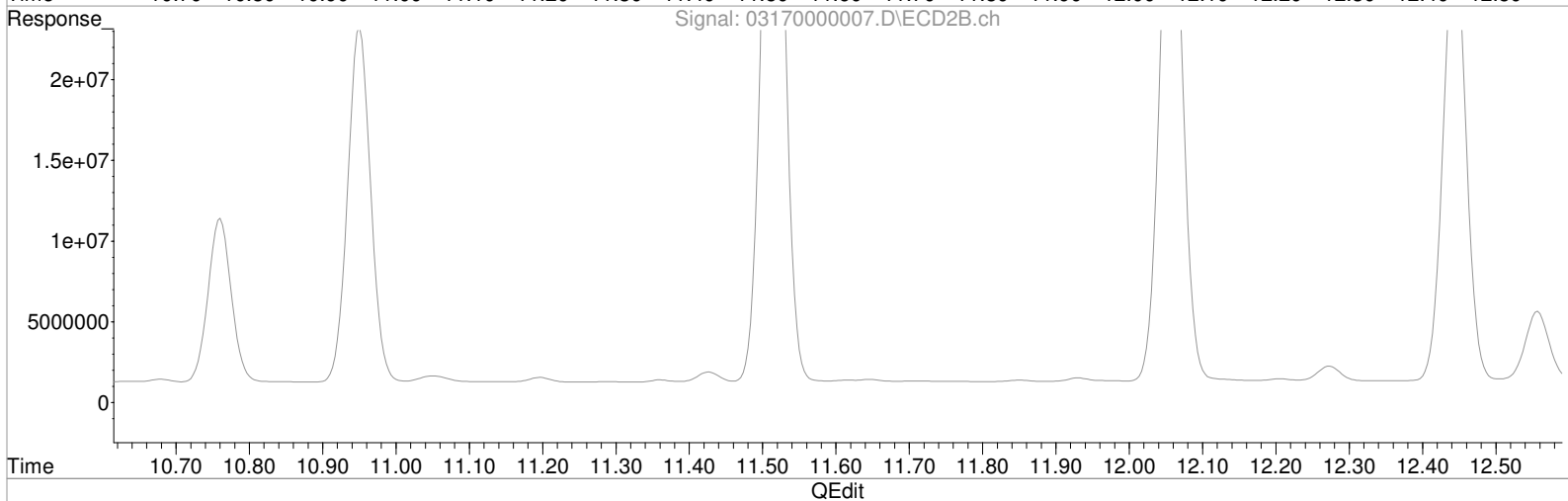
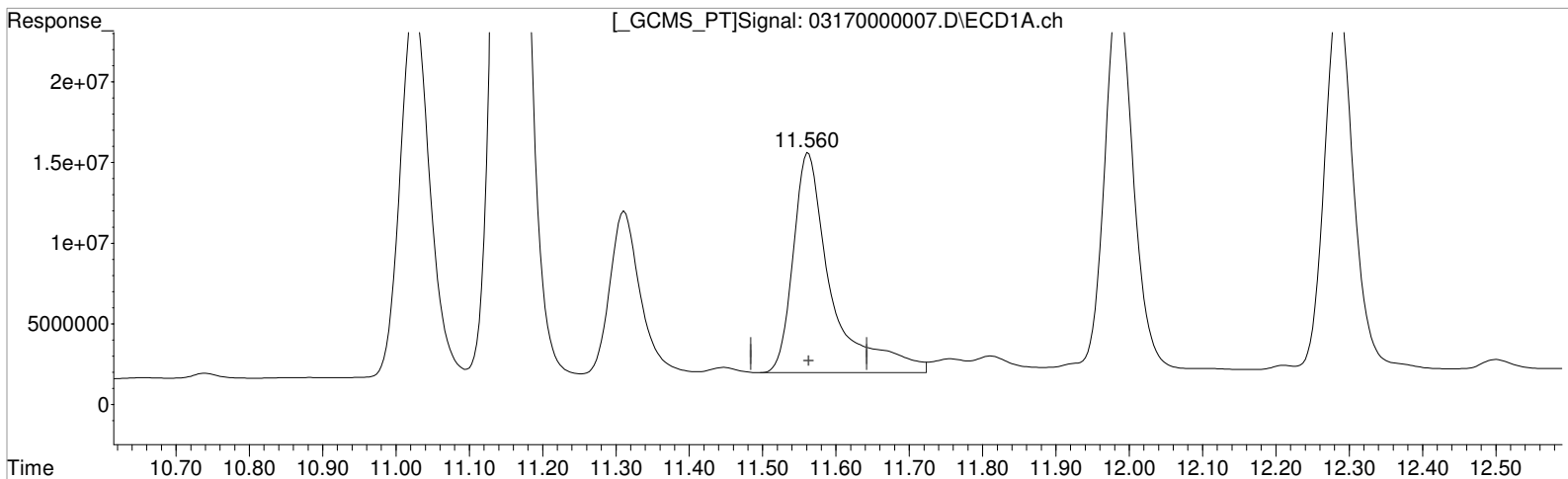
Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\031721\03170000007.D Vial: 3
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 12:42:34 Operator: JTC
Sample : PENTA02-24K-75PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:01:01 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



(5) MCPA (m)
11.560min 7038.934 ppb
response 49340542

Manual Integration:
Before
03/17/21

(5) MCPA #2 (m)
10.313min 6674.719 ppb
response 22643214

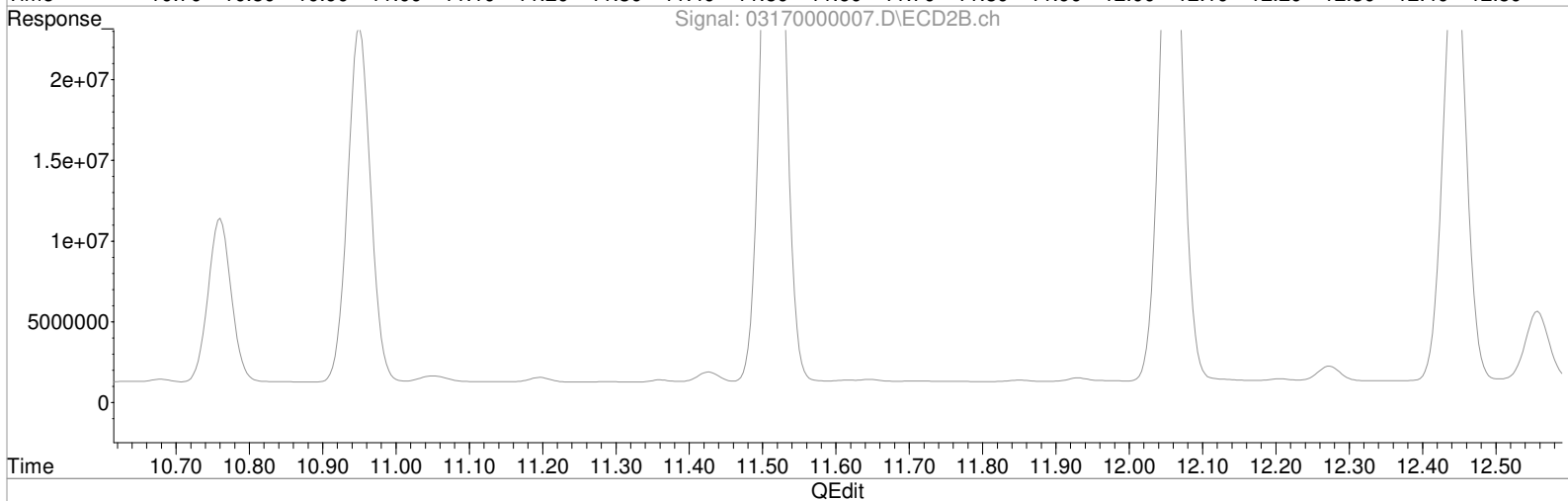
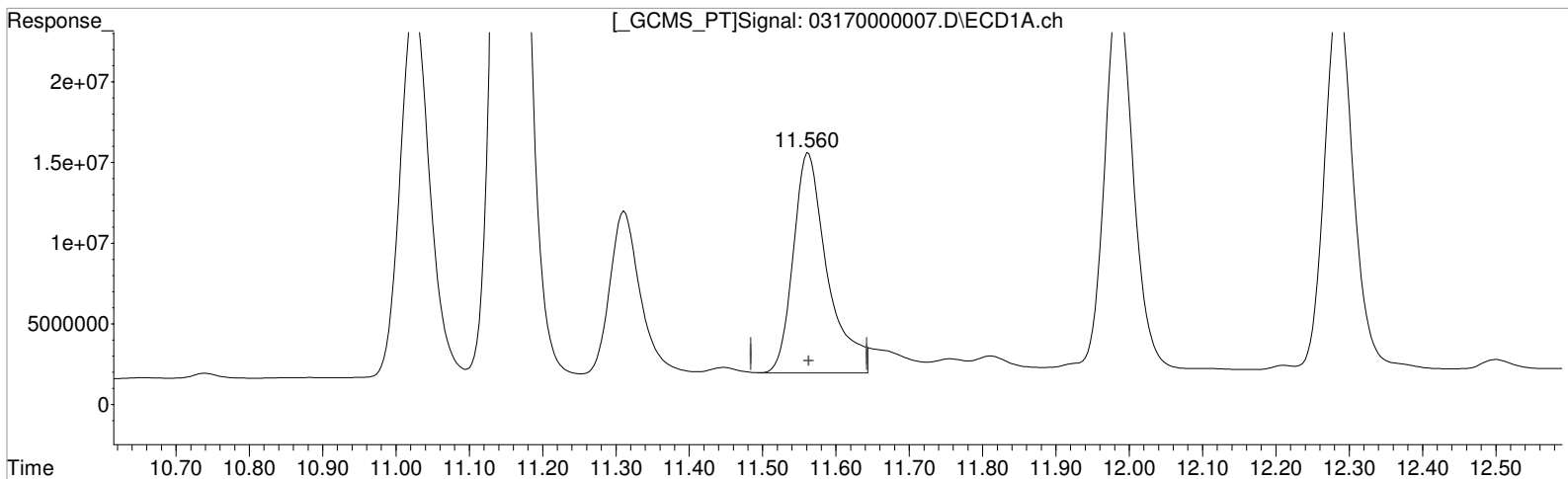
Data File : J:\GC34\DATA\031721\03170000007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 12:42:34
Sample : PENTA02-24K-75PPB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:01:01 2021
Quant Results File: 031721_8151.RES

Vial: 3

Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



(5) MCPA (m)
11.560min 6221.087 ppb m
response 44209107

Manual Integration:
After
Baseline/Shoulder
03/17/21

(5) MCPA #2 (m)
10.313min 6674.719 ppb
response 22643214

Data File : J:\GC34\DATA\031721\03170000008.D Vial: 4
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17-Mar-2021, 13:06:33 Operator: JTC
 Sample : PENTA02-24L-100PPB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 17 15:59:49 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 15:58:47 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds							
2) s	2,4-Dichl...	11.023	9.490	92601078	32671085	86.607	89.660
Target Compounds							
1) m	Dalapon	5.693	4.847	89462223	42502837	92.816	95.942
3) m	Dicamba	11.153	9.670	316.5E6	112.9E6	97.504	96.413
4) m	MCPD	11.310	10.020	39837527	21334760	9280.115	9659.926
5) m	MCPA	11.560	10.313	61063353	31771253	8932.358m	9365.463
6) m	Dichloroprop	11.983	10.760	90900863	32274282	89.415	94.157
7) m	2,4-D	12.283	10.950	93754244	68660480	86.641	94.035
8) m	2,4,5-TP ...	13.353	11.513	418.7E6	140.9E6	91.749	97.978
9) m	2,4,5-T	13.733	12.057	327.3E6	110.9E6	88.281	94.946
10) m	2,4-DB	14.333	12.557	41568349	13872991	78.592	86.317
11) m	Dinoseb	14.480	12.443	244.6E6	85842179	86.759	93.898

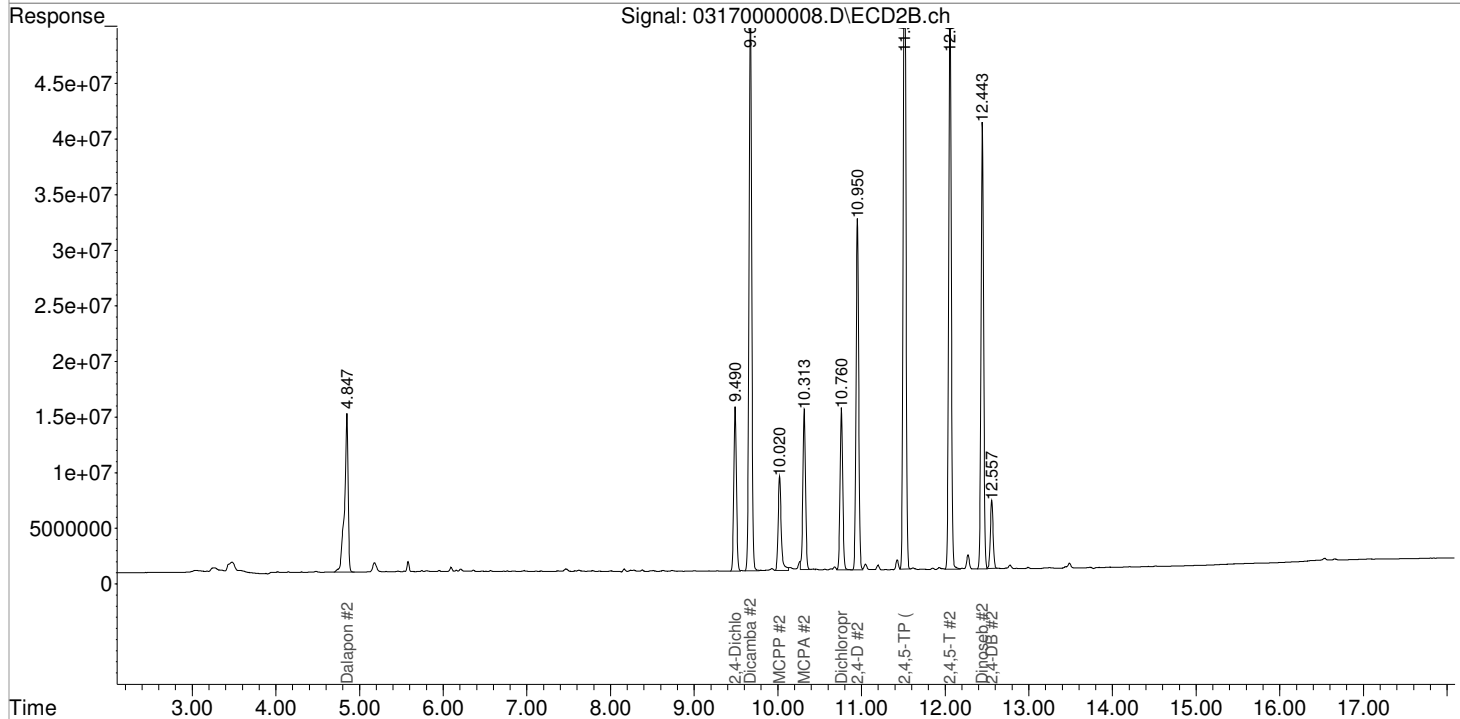
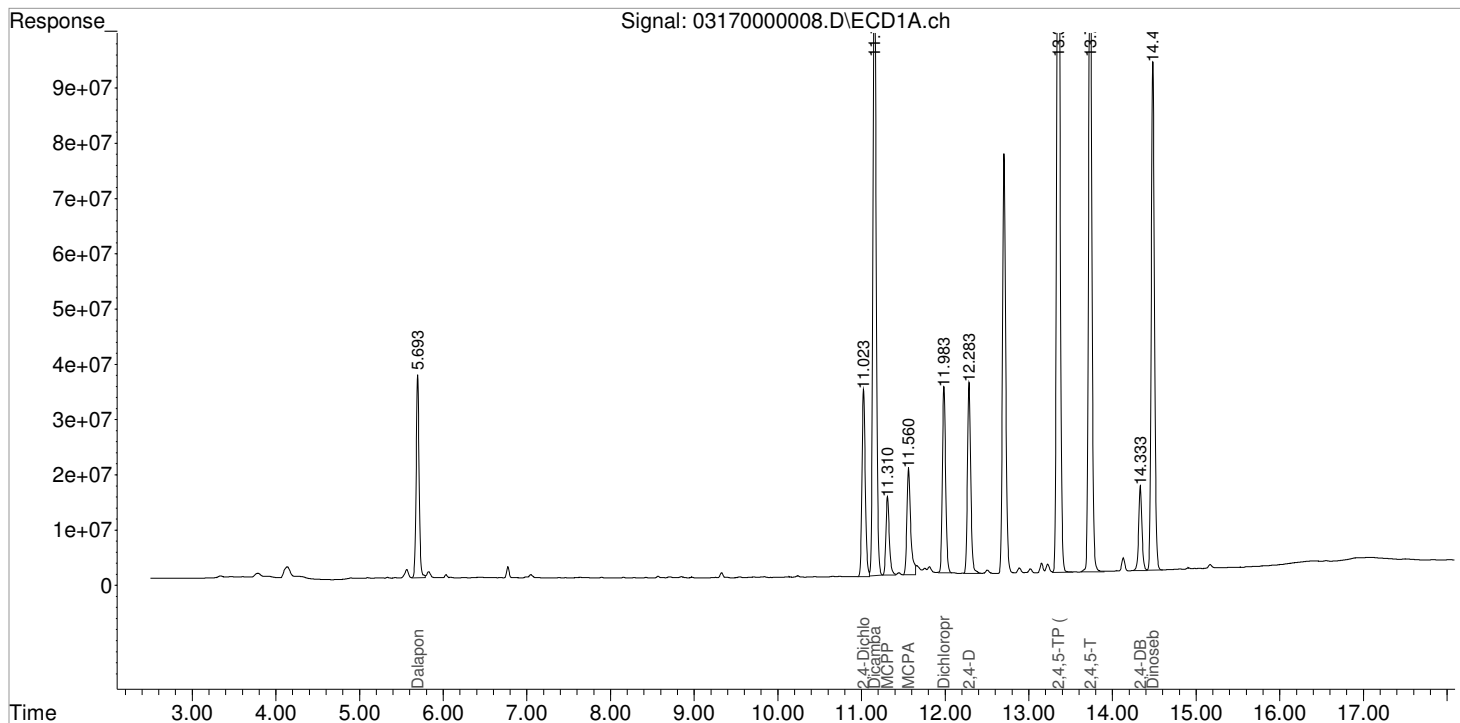
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\031721\0317000008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 13:06:33
Sample : PENTA02-24L-100PPB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 15:59:49 2021
Quant Results File: 031721_8151.RES

Vial: 4
Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 15:58:47 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

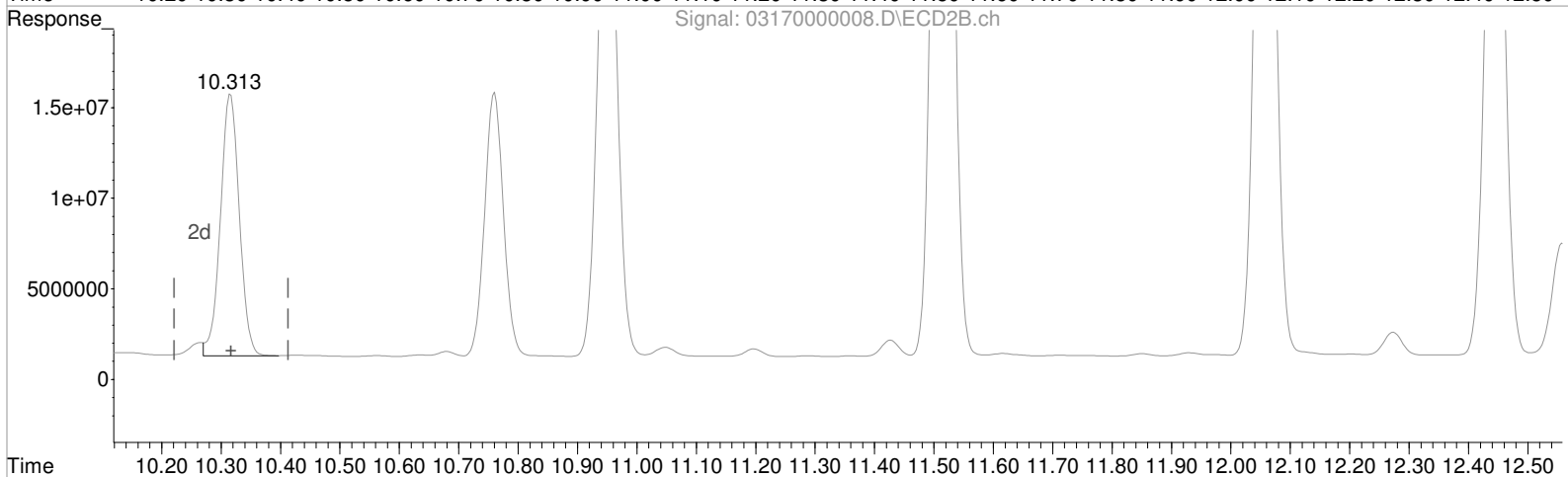
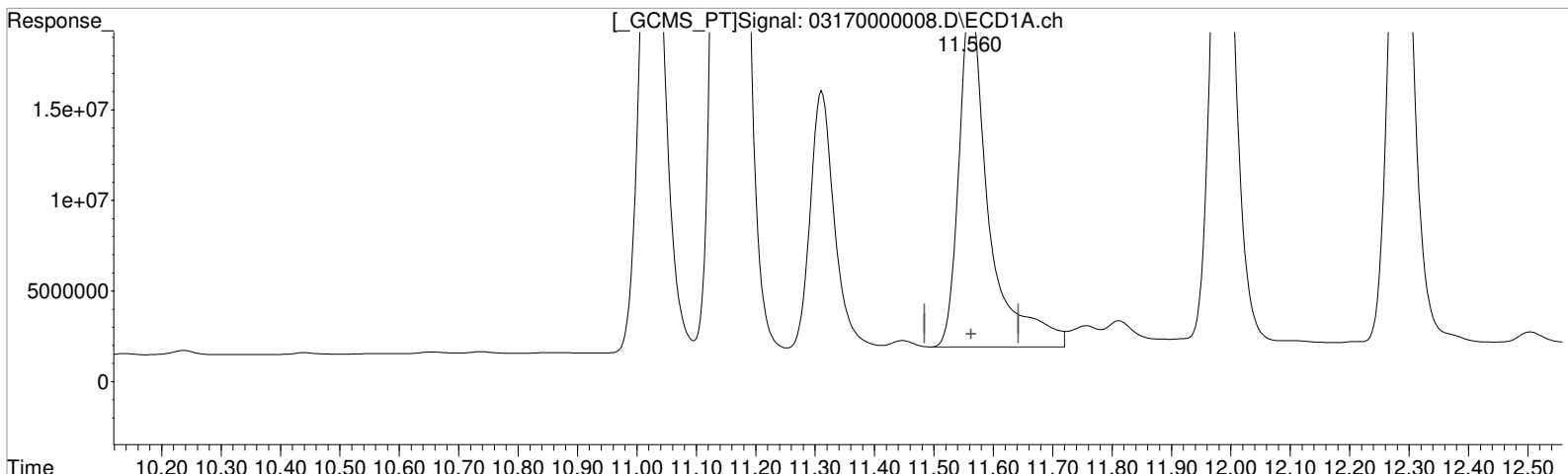
Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\031721\03170000008.D Vial: 4
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 13:06:33 Operator: JTC
Sample : PENTA02-24L-100PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 15:59:20 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 15:58:47 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



QEdit

(5) MCPA (m)
11.560min 9865.258 ppb
response 66758538

Manual Integration:
Before
03/17/21

(5) MCPA #2 (m)
10.313min 9365.463 ppb
response 31771253

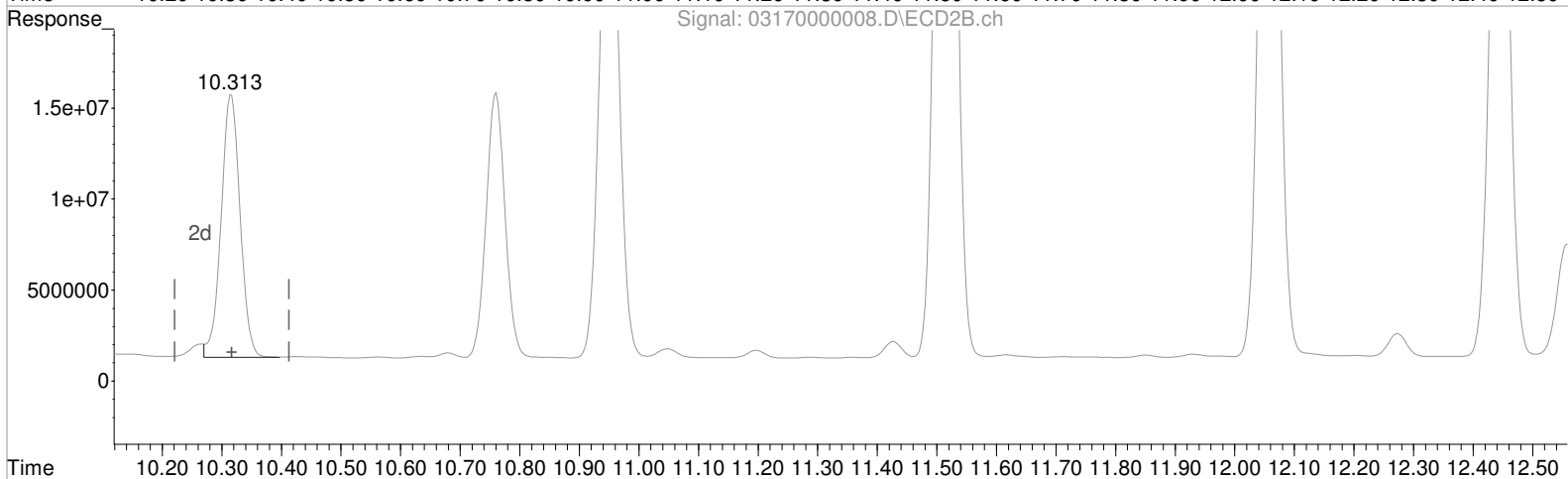
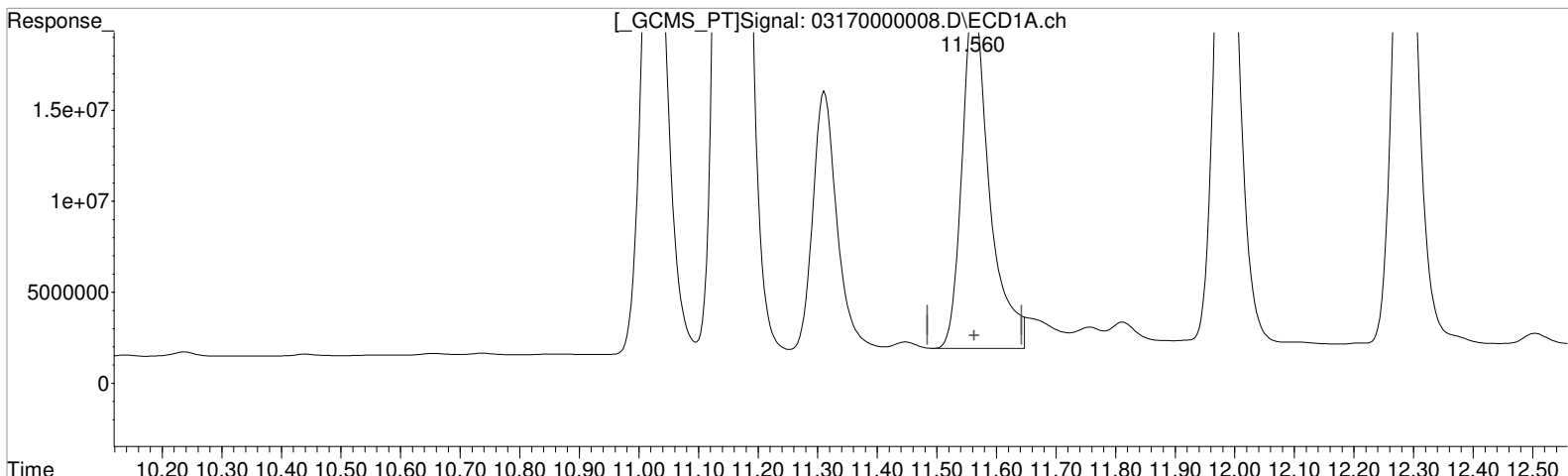
Data File : J:\GC34\DATA\031721\03170000008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 13:06:33
Sample : PENTA02-24L-100PPB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 15:59:20 2021
Quant Results File: 031721_8151.RES

Vial: 4

Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 15:58:47 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



QEdit

(5) MCPA (m)
11.560min 8932.358 ppb m
response 61063353

Manual Integration:
After
Baseline/Shoulder
03/17/21

(5) MCPA #2 (m)
10.313min 9365.463 ppb
response 31771253

(+) = Expected Retention Time

Data File : J:\GC34\DATA\031721\0317000009.D Vial: 5
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17-Mar-2021, 13:30:41 Operator: JTC
 Sample : PENTA02-24M-125PPB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 17 16:03:59 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue Mar 02 07:39:59 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	11.023	9.490	118.1E6	40925938	110.453	112.314
Target Compounds						
1) m Dalapon	5.693	4.847	113.3E6	53635970	117.546	121.073
3) m Dicamba	11.153	9.670	407.1E6	144.1E6	125.440	123.058
4) m MCPP	11.310	10.020	50459370	26070497	11952.293	12214.754
5) m MCPA	11.560	10.317	75699123	39770806	11347.725m	11723.554
6) m Dichloroprop	11.983	10.760	116.4E6	40990630	114.543	119.586
7) m 2,4-D	12.283	10.950	120.6E6	86921919	111.481	119.046
8) m 2,4,5-TP ...	13.353	11.513	539.7E6	179.7E6	118.274	124.963
9) m 2,4,5-T	13.730	12.057	422.4E6	142.5E6	113.923	122.005
10) m 2,4-DB	14.333	12.557	53499481	17504233	101.150	108.911
11) m Dinoseb	14.480	12.443	314.2E6	109.2E6	111.445	119.489

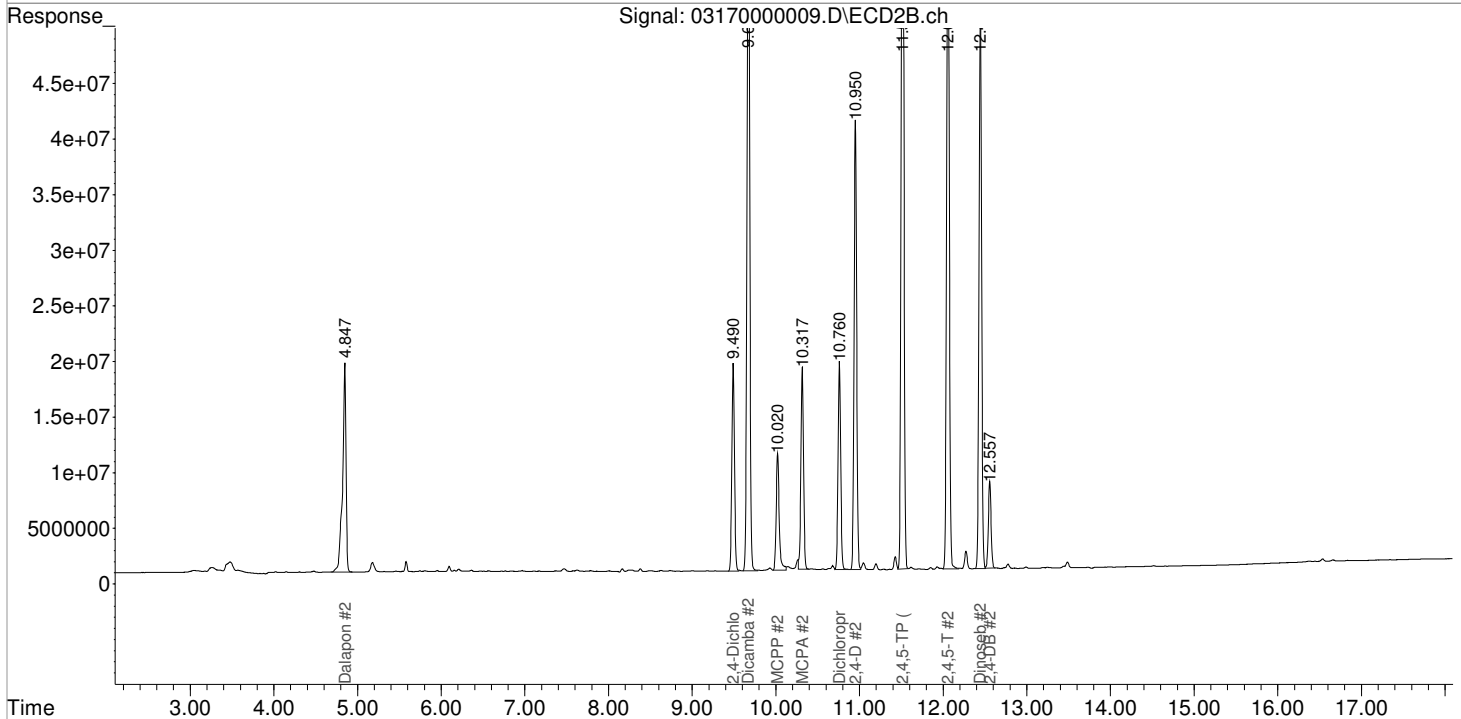
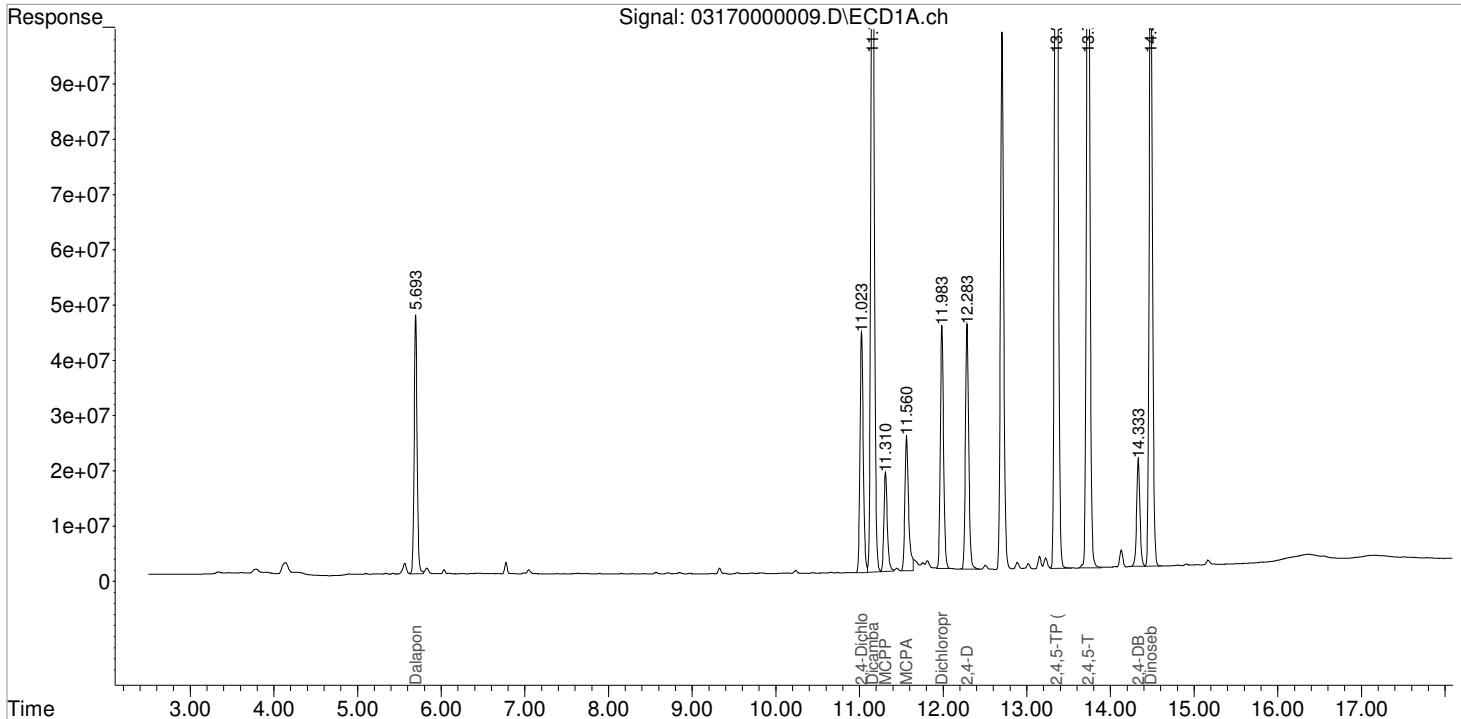
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\031721\0317000009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 13:30:41
Sample : PENTA02-24M-125PPB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:03:59 2021
Quant Results File: 031721_8151.RES

Vial: 5
Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

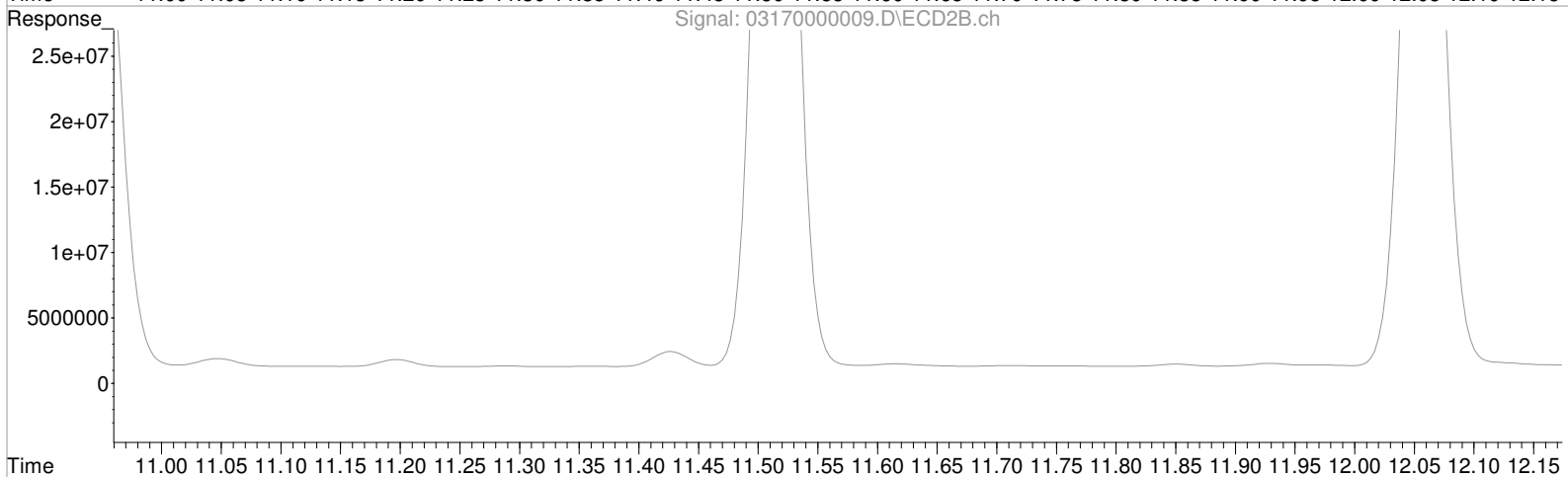
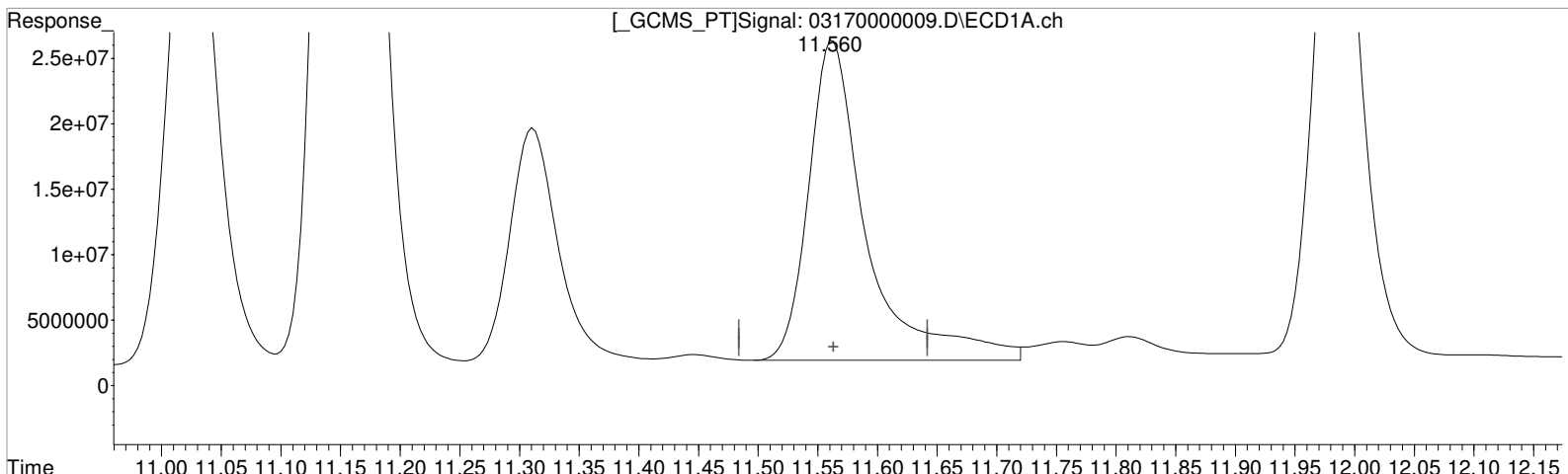
Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\031721\0317000009.D Vial: 5
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 13:30:41 Operator: JTC
Sample : PENTA02-24M-125PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:01:03 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



QEdit

(5) MCPA (m)
11.560min 12513.329 ppb
response 82634268

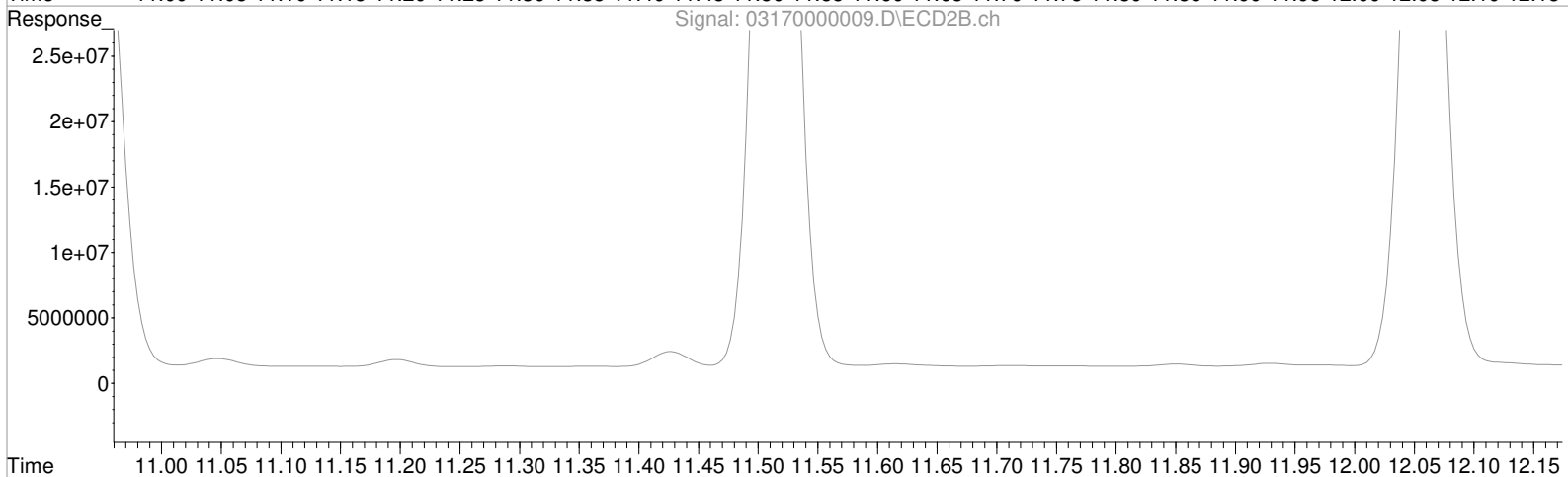
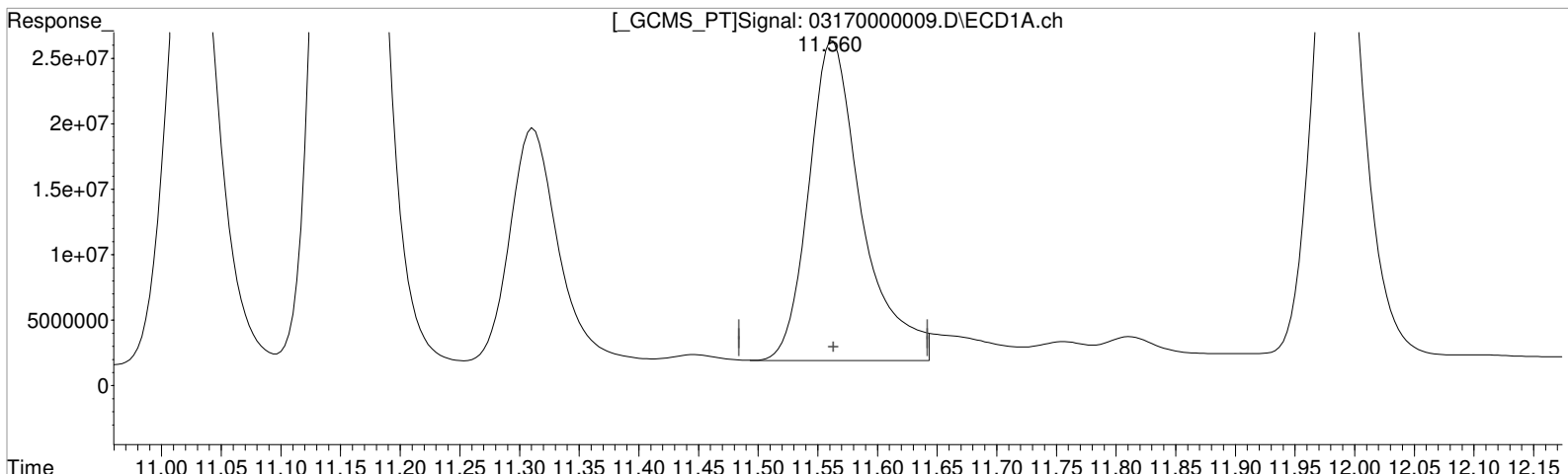
Manual Integration:
Before
03/17/21

(5) MCPA #2 (m)
10.317min 11723.554 ppb
response 39770806

Data File : J:\GC34\DATA\031721\0317000009.D Vial: 5
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17-Mar-2021, 13:30:41 Operator: JTC
 Sample : PENTA02-24M-125PPB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 17 16:01:03 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue Mar 02 07:39:59 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



QEdit

(5) MCPA (m)
 11.560min 11347.725 ppb m
 response 75699123

Manual Integration:
 After
 Baseline/Shoulder
 03/17/21

(5) MCPA #2 (m)
 10.317min 11723.554 ppb
 response 39770806

Data File : J:\GC34\DATA\031721\03170000010.D Vial: 6
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17-Mar-2021, 13:54:44 Operator: JTC
 Sample : PENTA02-24N-150PPB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 17 16:04:37 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue Mar 02 07:39:59 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.027	9.490	138.9E6	48104860	129.944	132.015
Target Compounds						
1) m Dalapon	5.693	4.847	133.2E6	63089987	138.235	142.414
3) m Dicamba	11.153	9.673	480.6E6	171.1E6	148.059	146.071
4) m MCPP	11.310	10.020	58703701	29997246	14036.657	14432.166
5) m MCPA	11.563	10.313	88508014	46549894	13511.656m	13721.880
6) m Dichloroprop	11.987	10.760	138.0E6	48576498	135.762	141.717
7) m 2,4-D	12.283	10.950	144.2E6	102.4E6	133.232	140.183
8) m 2,4,5-TP ...	13.353	11.513	643.8E6	212.1E6	141.079	147.481
9) m 2,4,5-T	13.733	12.057	508.1E6	169.4E6	137.046	145.021
10) m 2,4-DB	14.333	12.557	64188667	20699665	121.360	128.792
11) m Dinoseb	14.483	12.443	375.1E6	129.0E6	133.052	141.107

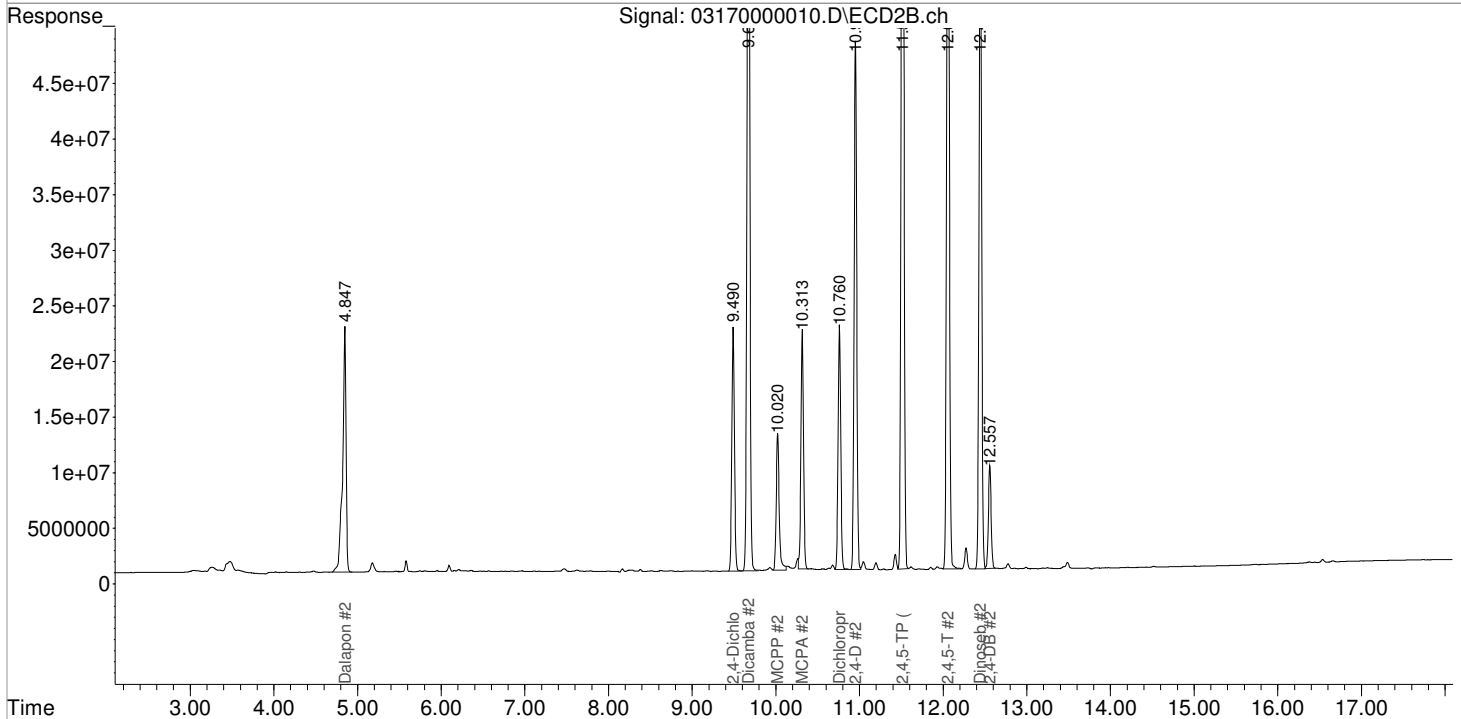
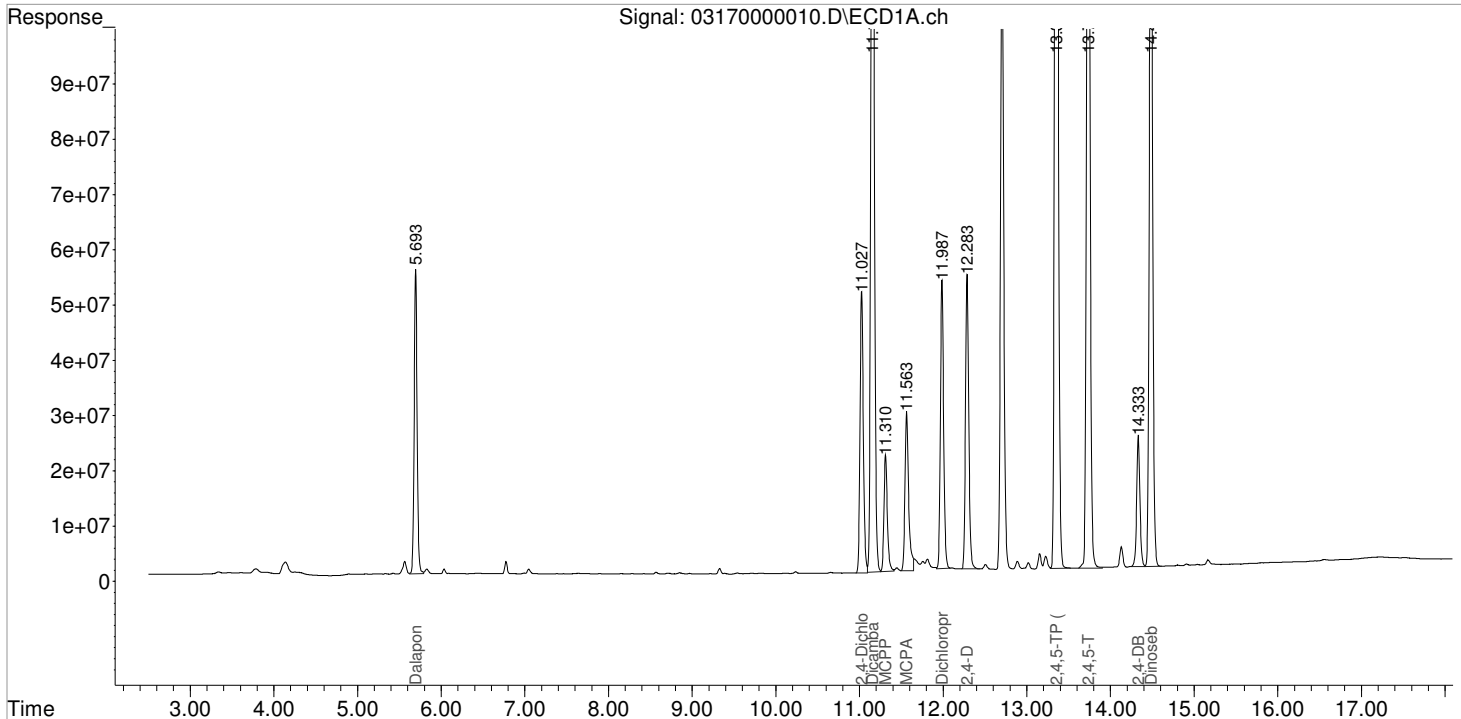
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\031721\0317000010.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17-Mar-2021, 13:54:44
 Sample : PENTA02-24N-150PPB
 Misc :
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 17 16:04:37 2021
 Quant Results File: 031721_8151.RES

Vial: 6
 Operator: JTC
 Inst : GCI
 Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue Mar 02 07:39:59 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

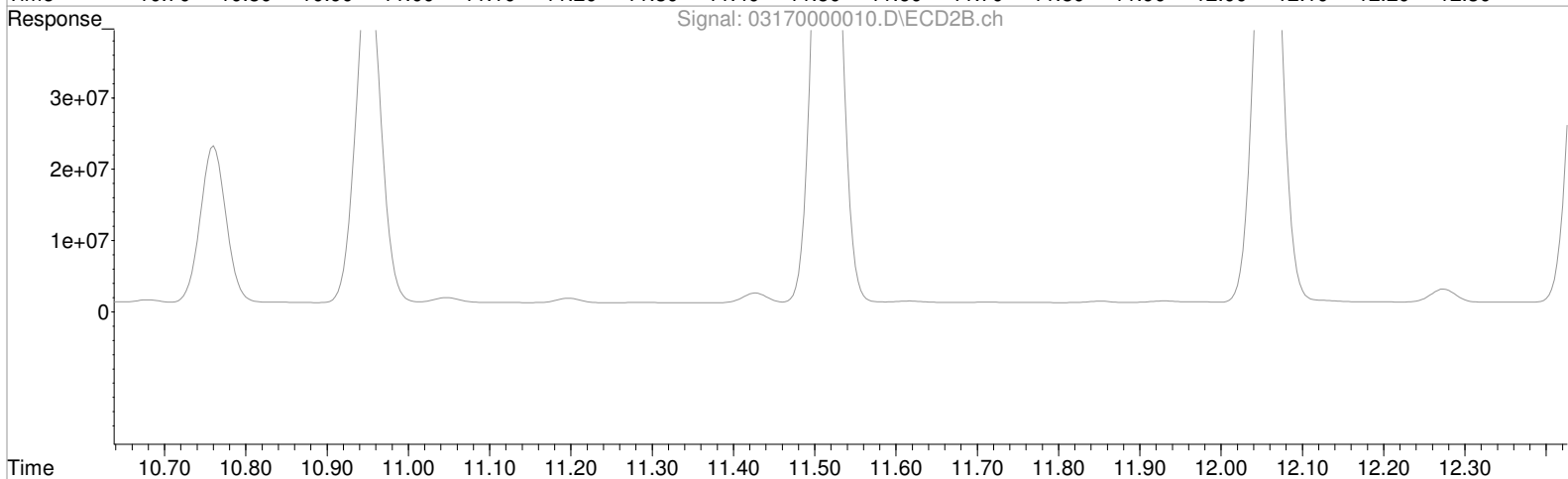
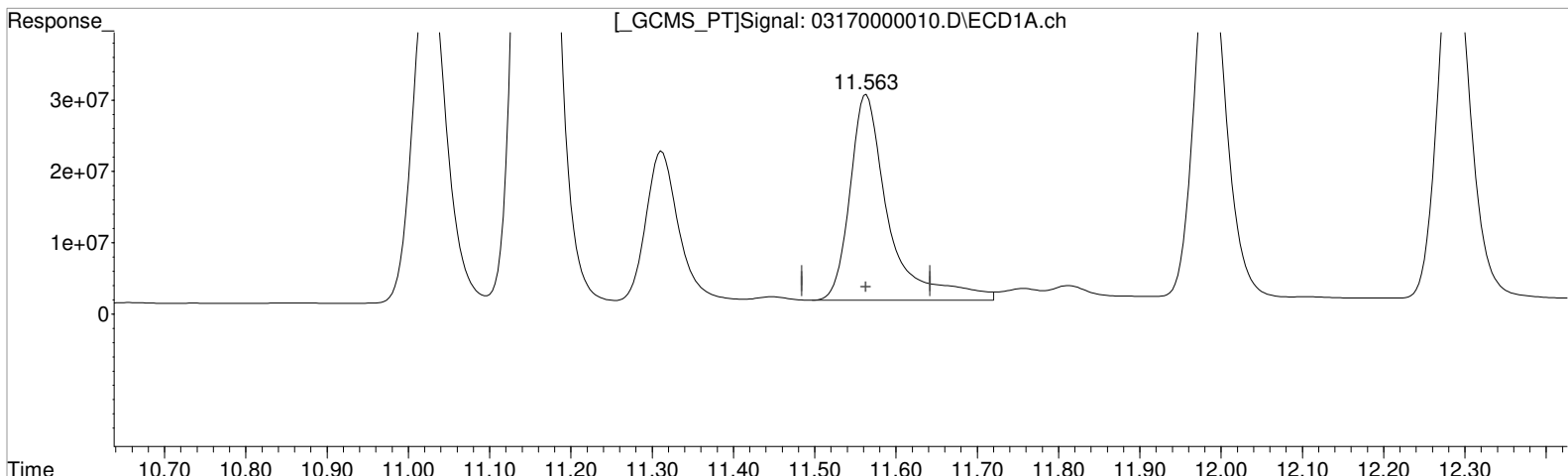
Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\031721\0317000010.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 13:54:44 Operator: JTC
Sample : PENTA02-24N-150PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:01:07 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



QEdit

(5) MCPA (m)
11.563min 14712.862 ppb
response 95494552

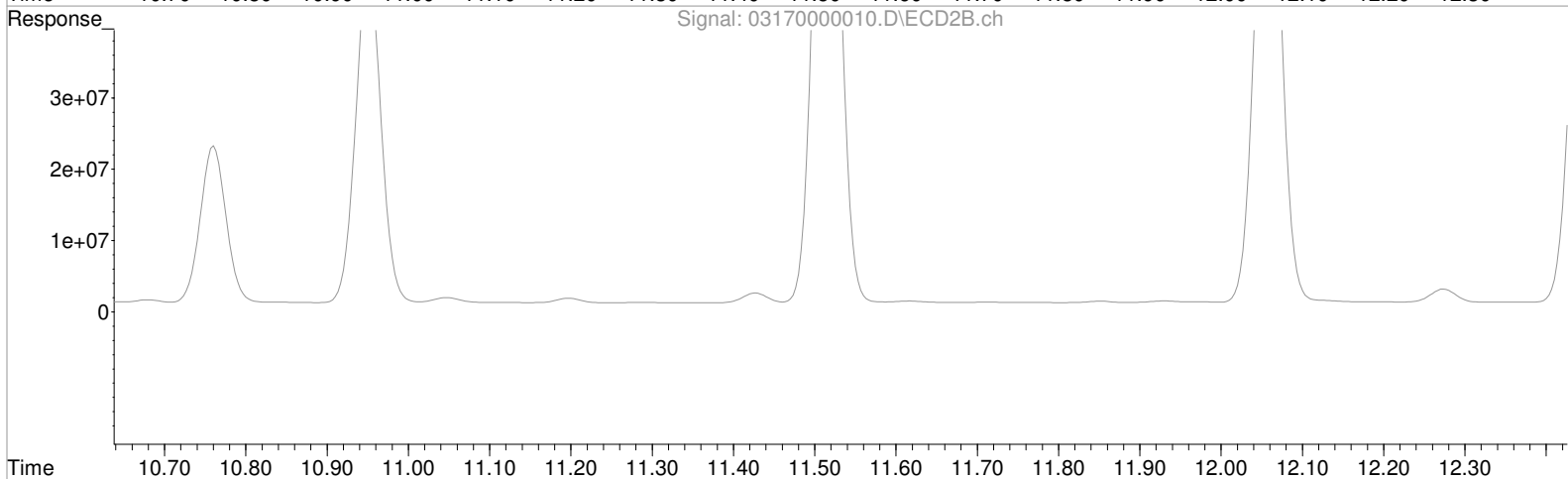
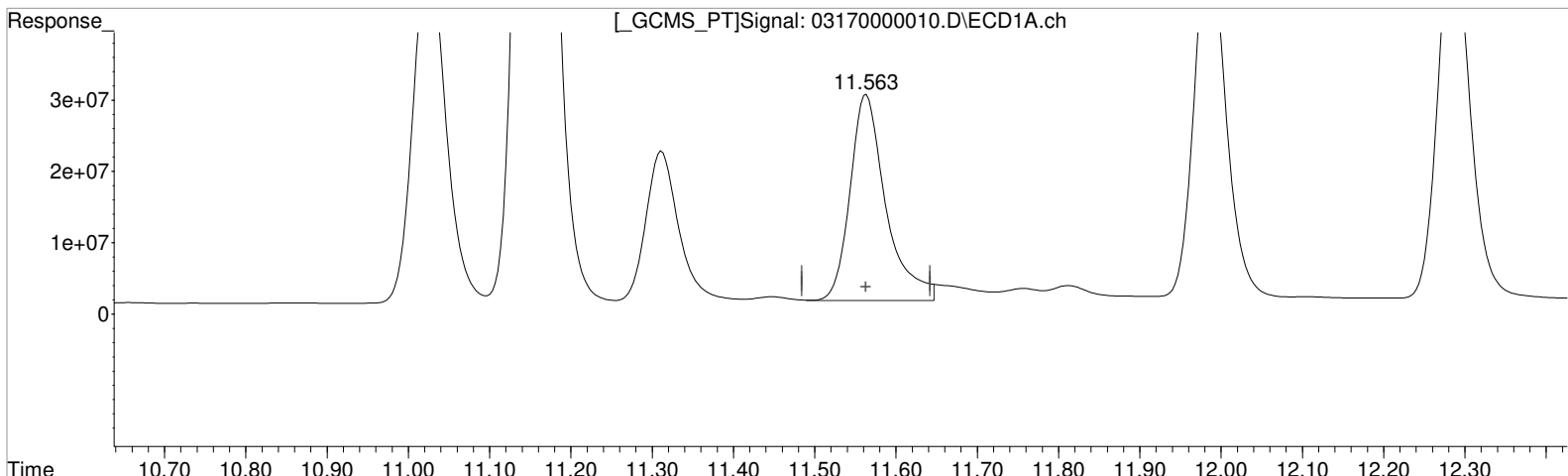
Manual Integration:
Before
03/17/21

(5) MCPA #2 (m)
10.313min 13721.880 ppb
response 46549894

Data File : J:\GC34\DATA\031721\0317000010.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 13:54:44 Operator: JTC
Sample : PENTA02-24N-150PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:01:07 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



QEdit

(5) MCPA (m)
11.563min 13511.656 ppb m
response 88508014

(5) MCPA #2 (m)
10.313min 13721.880 ppb
response 46549894

Manual Integration:
After
Baseline/Shoulder
03/17/21

Data File : J:\GC34\DATA\031721\03170000011.D Vial: 7
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17-Mar-2021, 14:18:48 Operator: JTC
 Sample : PENTA02-25A-175PPB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 17 16:05:16 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue Mar 02 07:39:59 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	11.023	9.490	161.7E6	56529267	151.216	155.134
Target Compounds						
1) m Dalapon	5.693	4.850	155.7E6	73835540	161.507	166.670
3) m Dicamba	11.153	9.673	557.6E6	203.4E6	171.801	173.640
4) m MCPP	11.310	10.020	67518680	34762410	16275.406	17262.994
5) m MCPA	11.563	10.317	102.6E6	54679974	15957.589m	16118.447
6) m Dichloroprop	11.983	10.760	160.5E6	57627620	157.908	168.122
7) m 2,4-D	12.287	10.950	171.4E6	120.6E6	158.382	165.223
8) m 2,4,5-TP ...	13.353	11.513	762.1E6	250.9E6	167.000	174.466
9) m 2,4,5-T	13.733	12.057	612.4E6	201.5E6	165.167	172.475
10) m 2,4-DB	14.330	12.557	77920613	24574967	147.322	152.904
11) m Dinoseb	14.480	12.443	449.1E6	153.1E6	159.282	167.456

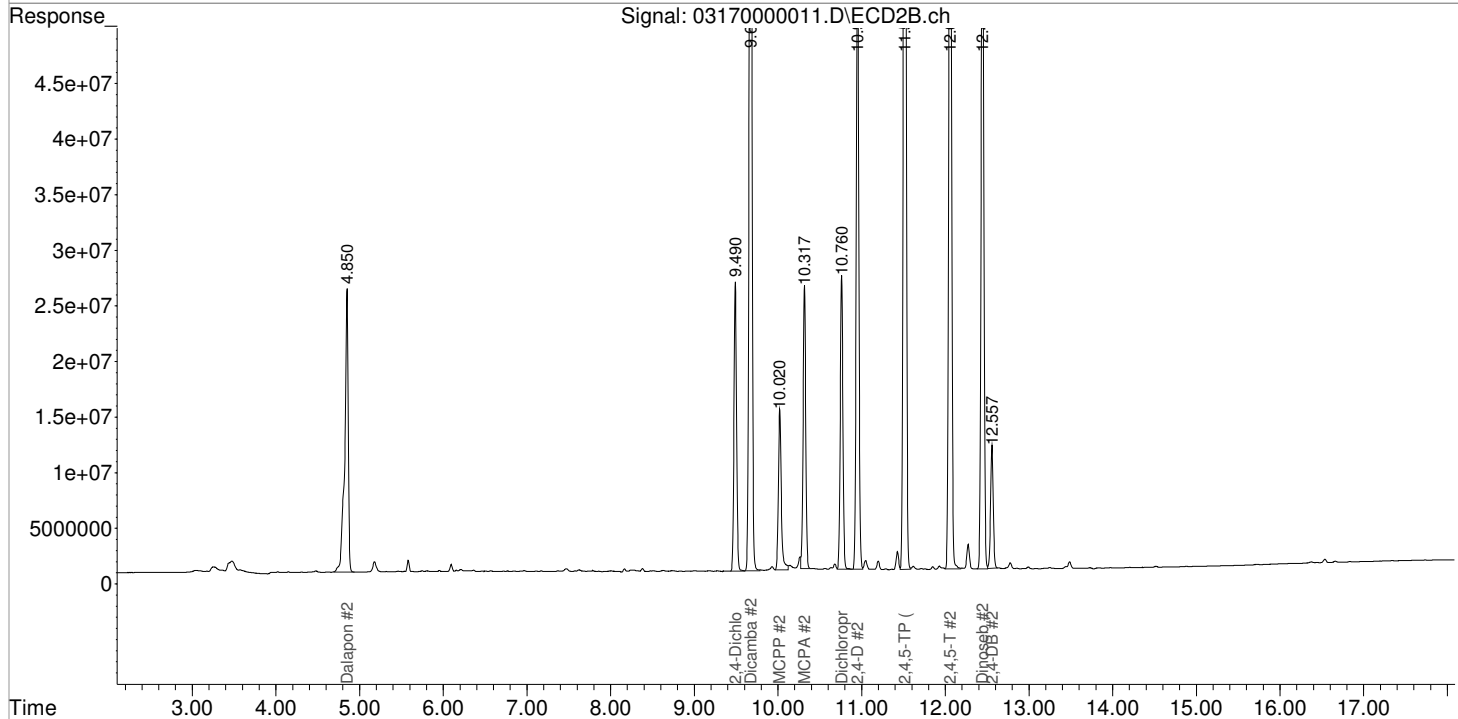
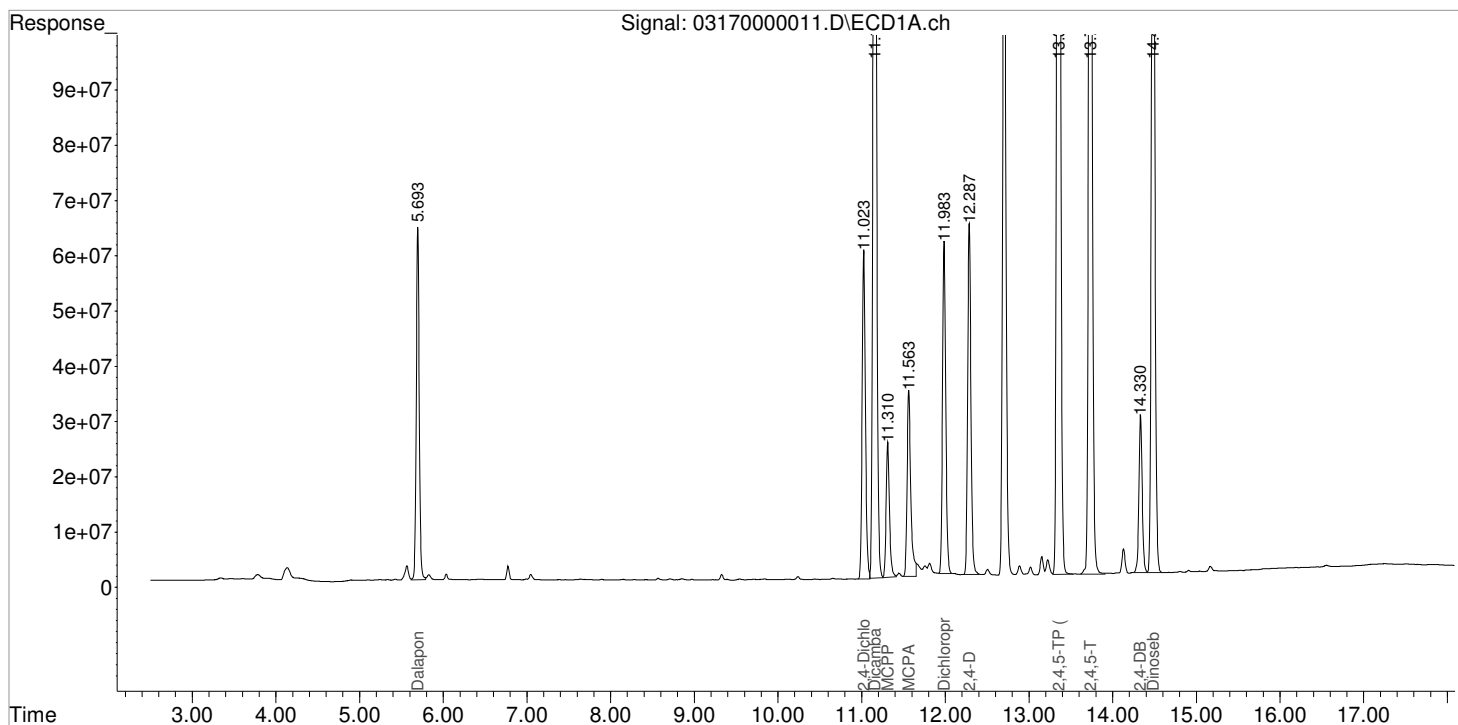
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\031721\0317000011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 14:18:48
Sample : PENTA02-25A-175PPB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:05:16 2021
Quant Results File: 031721_8151.RES

Vial: 7
Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

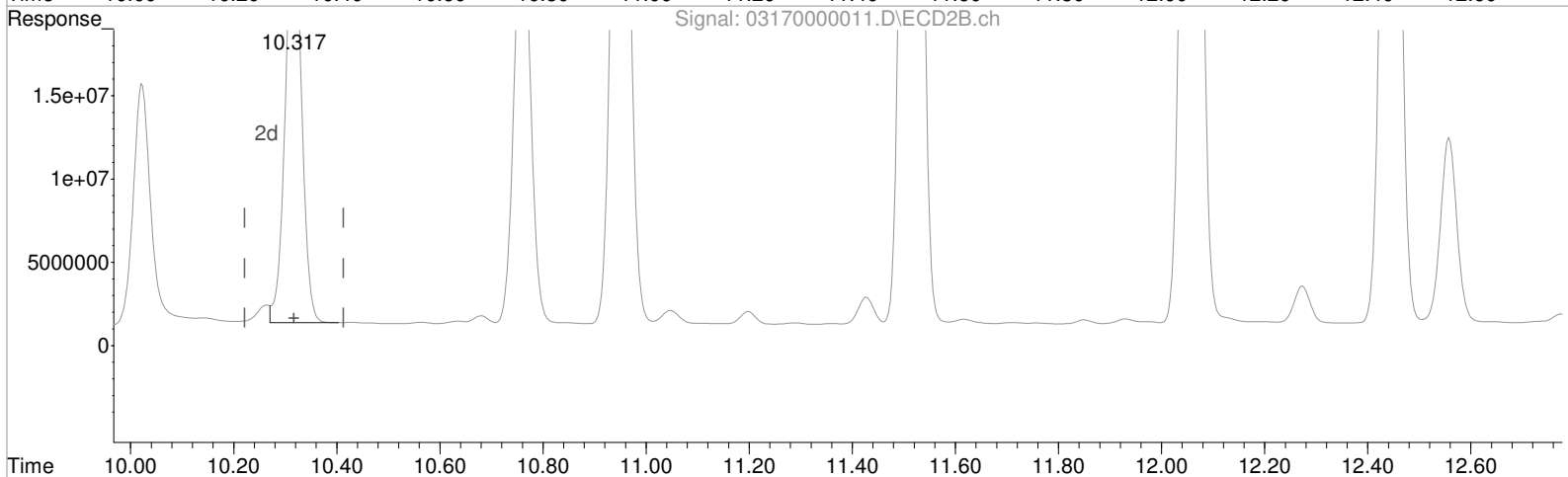
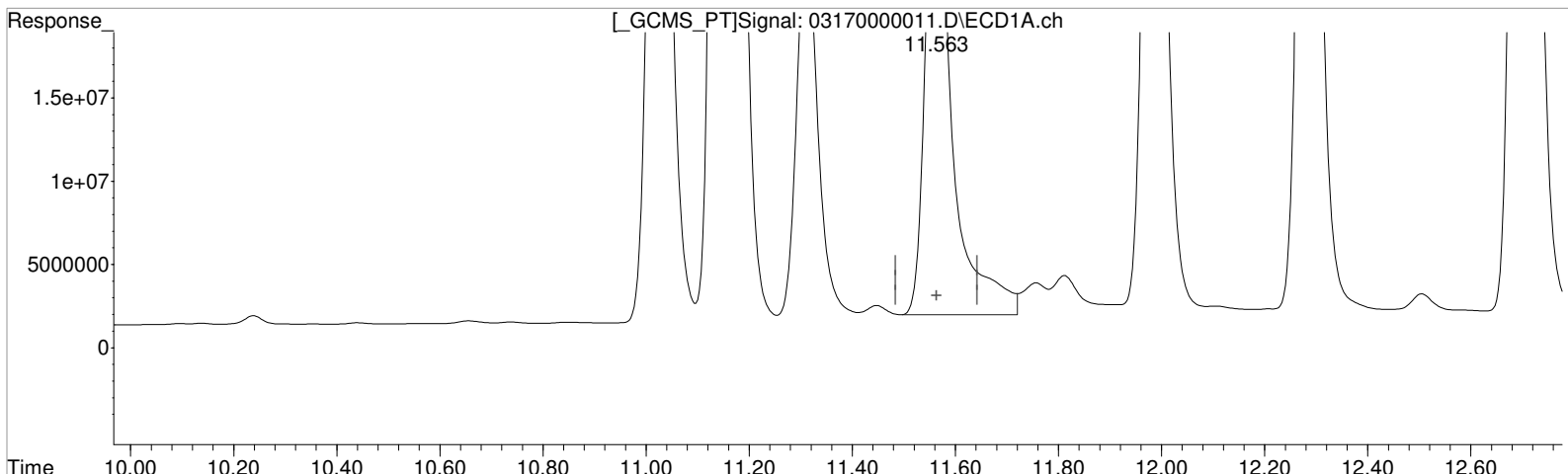
Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\031721\0317000011.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 14:18:48 Operator: JTC
Sample : PENTA02-25A-175PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:01:10 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



QEdit

(5) MCPA (m)
11.563min 17207.454 ppb
response 109721555

Manual Integration:

Before

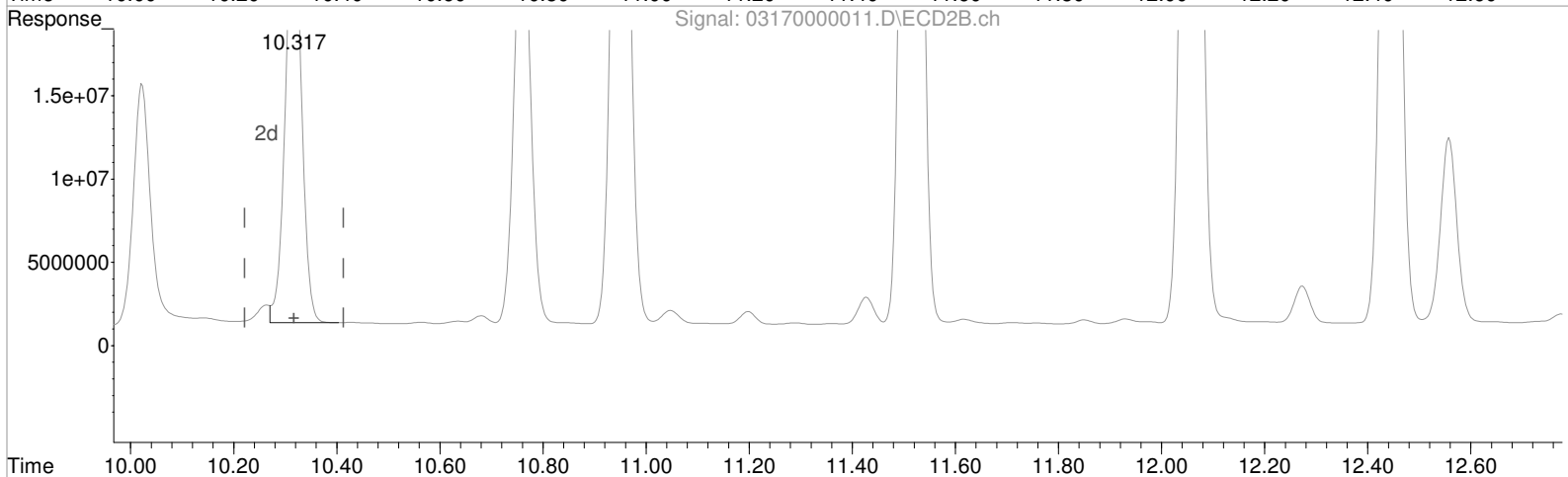
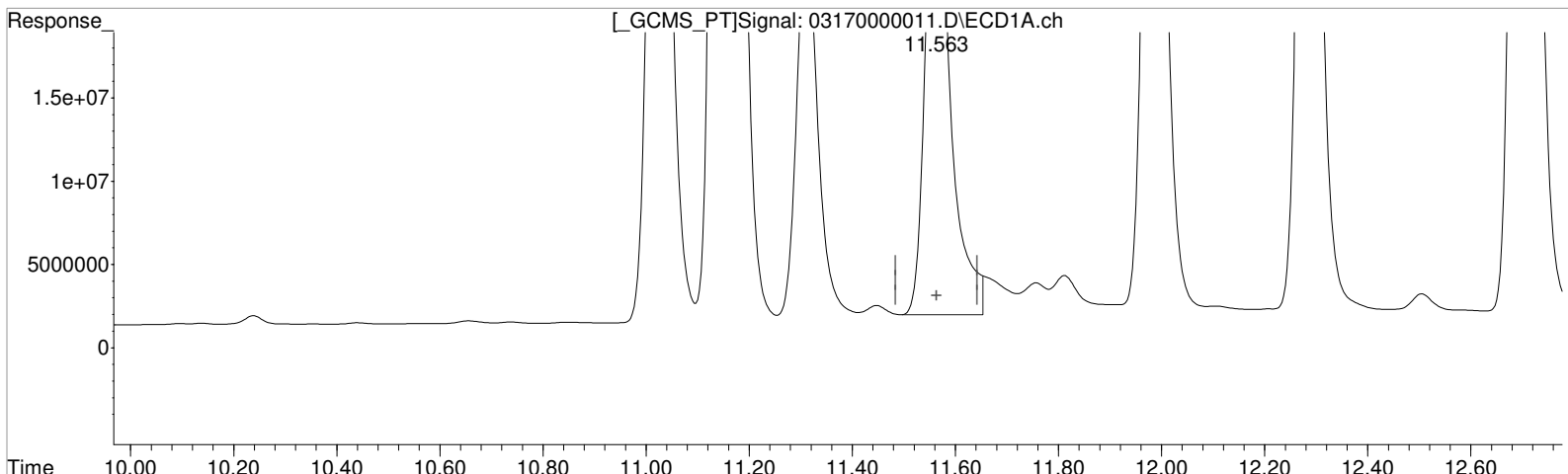
03/17/21

(5) MCPA #2 (m)
10.317min 16118.447 ppb
response 54679974

Data File : J:\GC34\DATA\031721\0317000011.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 14:18:48 Operator: JTC
Sample : PENTA02-25A-175PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:01:10 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



(5) MCPA (m)
11.563min 15957.589 ppb m
response 102641020

Manual Integration:
After
Baseline/Shoulder
03/17/21

(5) MCPA #2 (m)
10.317min 16118.447 ppb
response 54679974

Data File : J:\GC34\DATA\031721\03170000012.D Vial: 8
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17-Mar-2021, 14:42:52 Operator: JTC
 Sample : PENTA02-25B-200PPB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 17 16:05:53 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue Mar 02 07:39:59 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	11.027	9.490	189.0E6	65625124	176.796	180.096
Target Compounds						
1) m Dalapon	5.693	4.847	182.3E6	86760882	189.090	195.846
3) m Dicamba	11.157	9.673	653.9E6	238.7E6	201.462	203.773
4) m MCPP	11.310	10.020	77331593	40032007	18780.069	20606.166
5) m MCPA	11.563	10.317	118.1E6	63469315	18707.832m	18709.351
6) m Dichloroprop	11.987	10.760	187.9E6	67445860	184.783	196.766
7) m 2,4-D	12.287	10.950	201.8E6	141.0E6	186.469	193.089
8) m 2,4,5-TP ...	13.353	11.517	894.0E6	293.4E6	195.908	204.057
9) m 2,4,5-T	13.733	12.057	719.9E6	237.1E6	194.151	202.981
10) m 2,4-DB	14.333	12.557	91657401	28756131	173.294	178.920
11) m Dinoseb	14.483	12.443	525.2E6	178.6E6	186.299	195.360

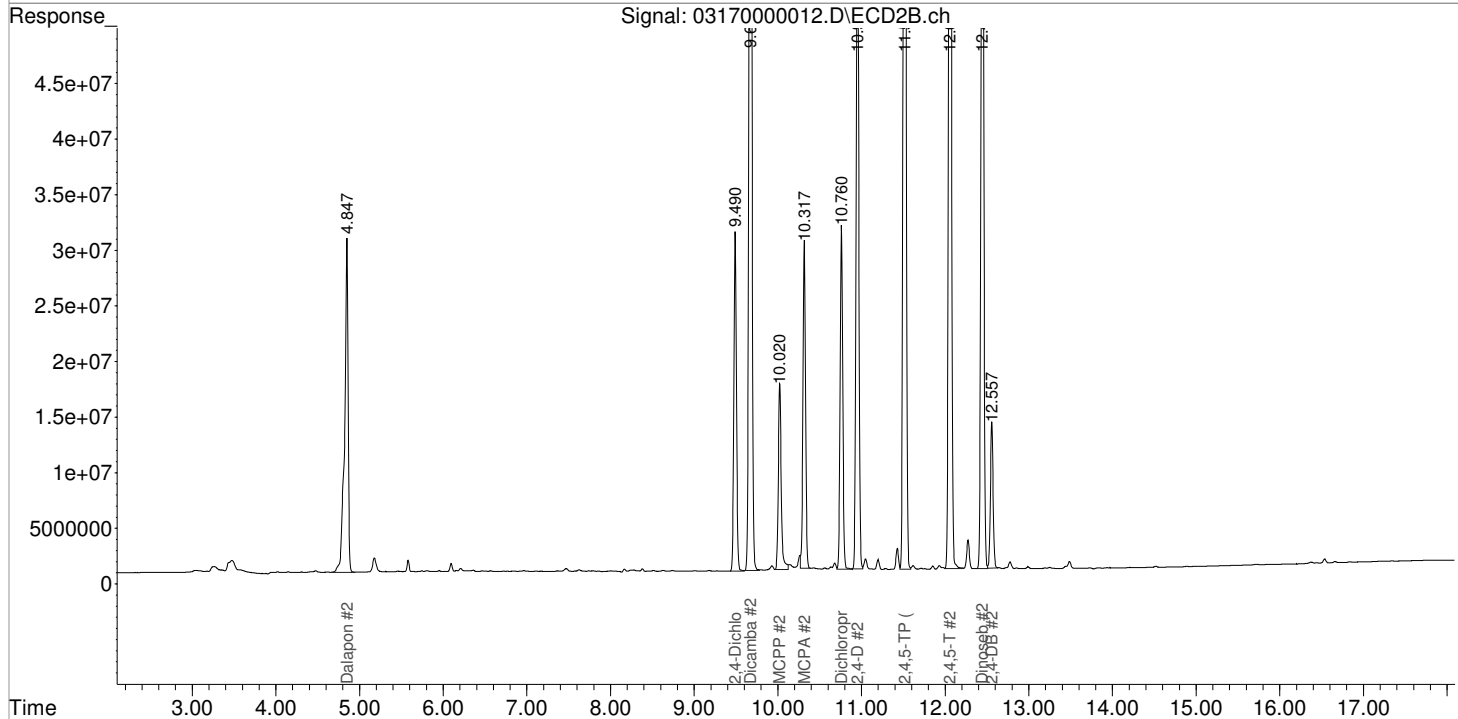
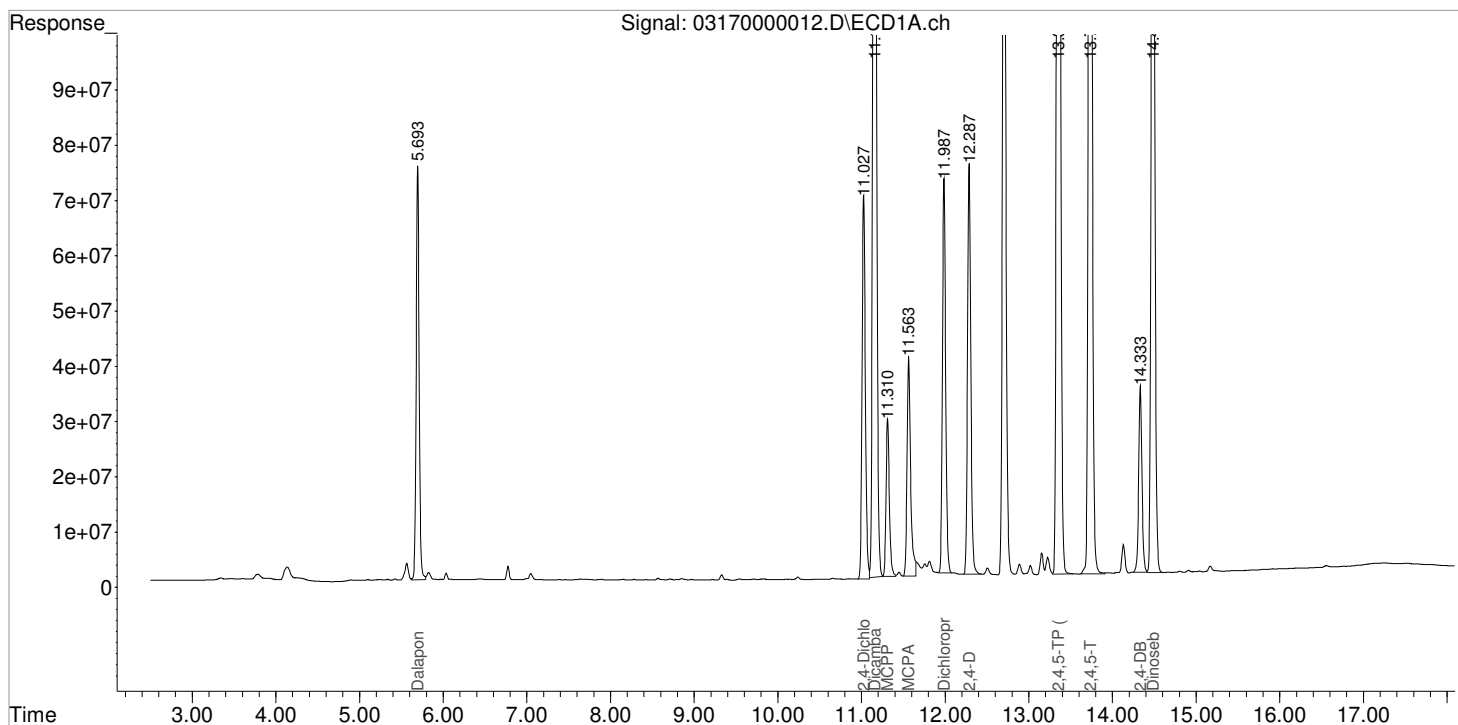
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\031721\0317000012.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17-Mar-2021, 14:42:52
 Sample : PENTA02-25B-200PPB
 Misc :
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 17 16:05:53 2021
 Quant Results File: 031721_8151.RES

Vial: 8
 Operator: JTC
 Inst : GCI
 Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Tue Mar 02 07:39:59 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

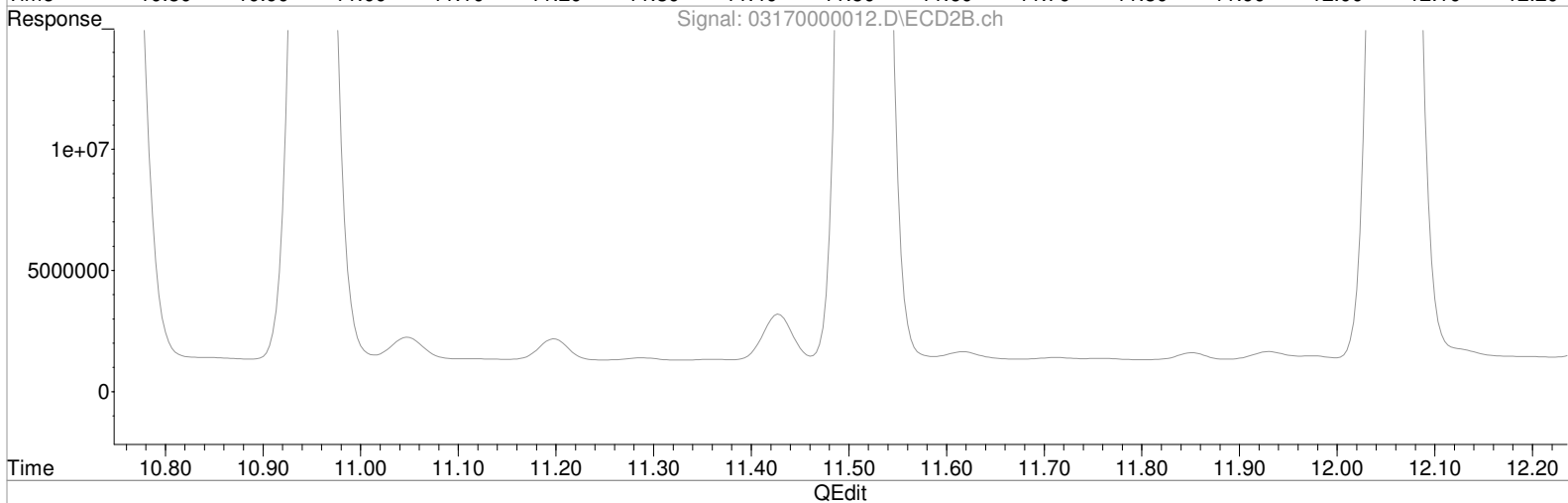
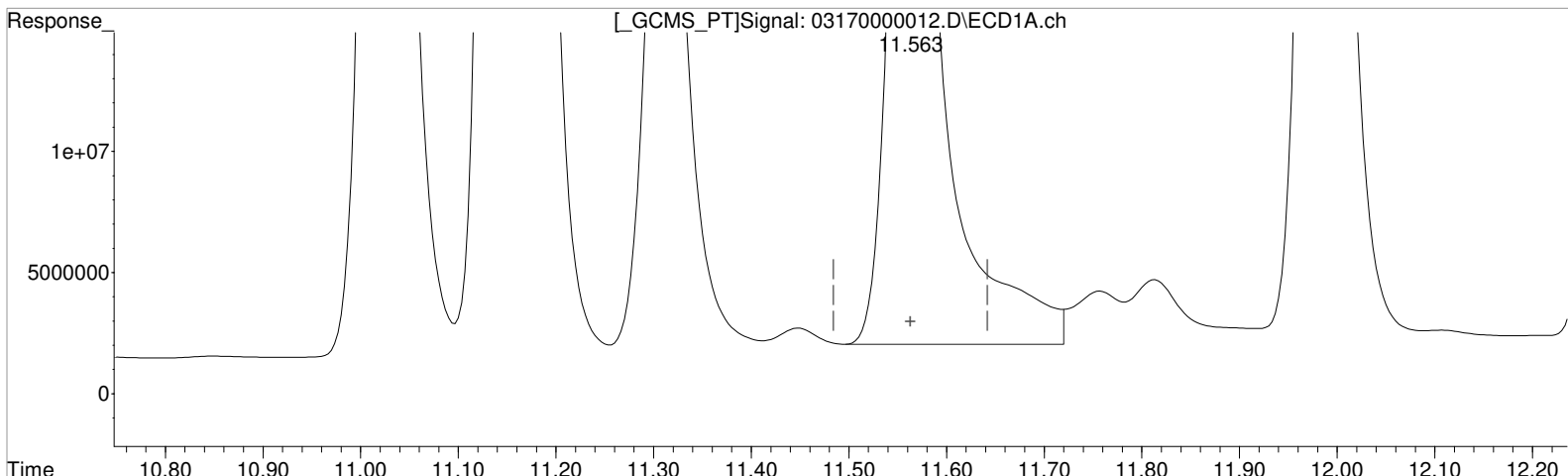
Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\031721\03170000012.D Vial: 8
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 14:42:52 Operator: JTC
Sample : PENTA02-25B-200PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:01:12 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



(5) MCPA (m)
11.563min 20234.310 ppb
response 126472577

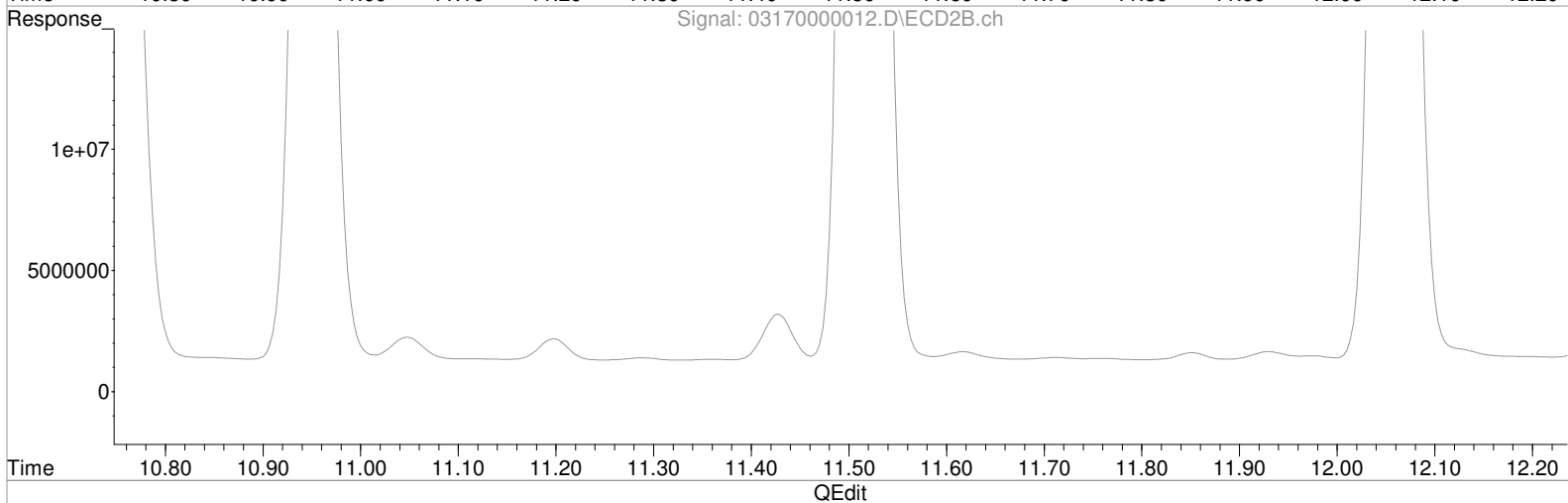
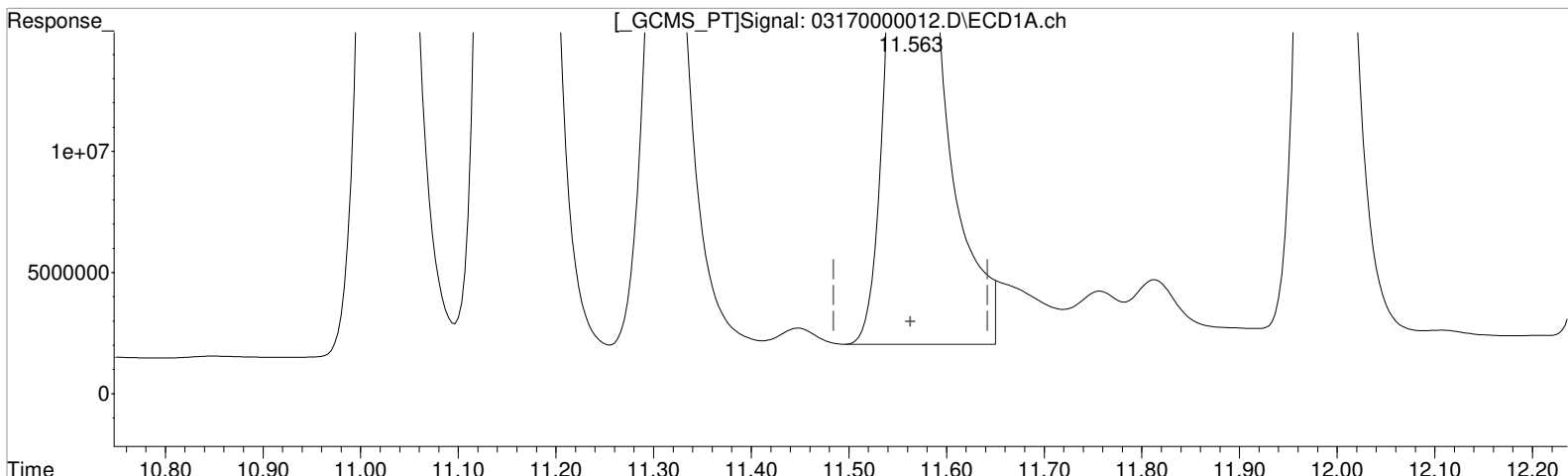
Manual Integration:
Before
03/17/21

(5) MCPA #2 (m)
10.317min 18709.351 ppb
response 63469315

Data File : J:\GC34\DATA\031721\03170000012.D Vial: 8
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 14:42:52 Operator: JTC
Sample : PENTA02-25B-200PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:01:12 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Mar 02 07:39:59 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



(5) MCPA (m)
11.563min 18707.832 ppb m
response 118094950

Manual Integration:
After
Baseline/Shoulder
03/17/21

(5) MCPA #2 (m)
10.317min 18709.351 ppb
response 63469315

Data File : J:\GC34\DATA\031721\03170000013.D Vial: 9
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17-Mar-2021, 15:06:56 Operator: JTC
 Sample : PENTA02-25C-100PPB ICV Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Mar 17 16:54:55 2021
 Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Mar 17 16:17:29 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
1) m Dalapon	5.693	4.850	92118184	44156847	94.188	93.039
3) m Dicamba	11.157	9.673	330.3E6	118.0E6	100.464	98.301
4) m MCPP	11.310	10.020	40950119	21594461	8999.133	9658.931
5) m MCPA	11.563	10.317	60754998	29586385	8898.070m	8400.855
6) m Dichloroprop	11.987	10.760	84467608	29190394	88.779	83.855
7) m 2,4-D	12.283	0.000	84327872	0	86.228	N.D. d#
8) m 2,4,5-TP ...	13.353	11.513	404.0E6	134.3E6	94.174	91.794
9) m 2,4,5-T	13.733	12.057	334.7E6	109.9E6	99.263	95.478
10) m 2,4-DB	14.333	12.557	41214145	13843914	94.433	92.630
11) m Dinoseb	14.483	12.443	249.8E6	87143515	96.547	94.427

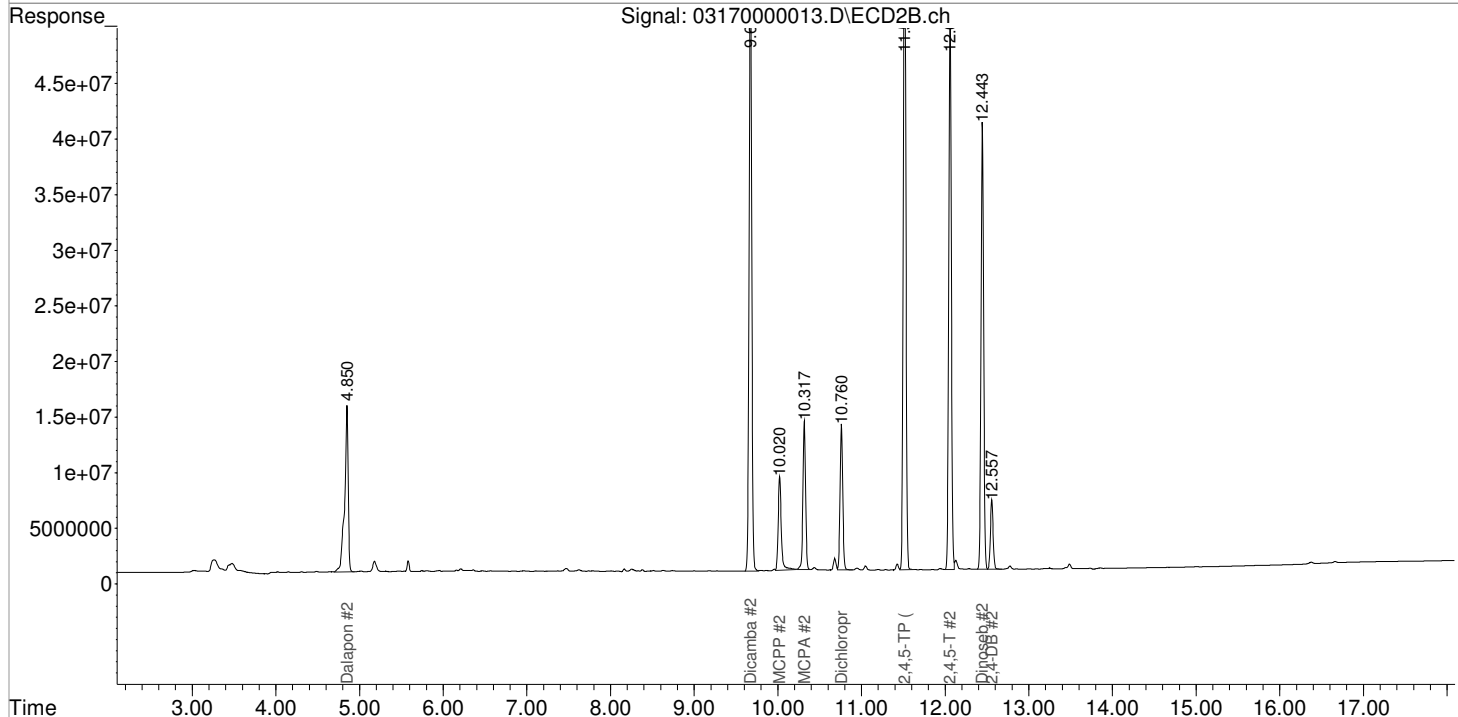
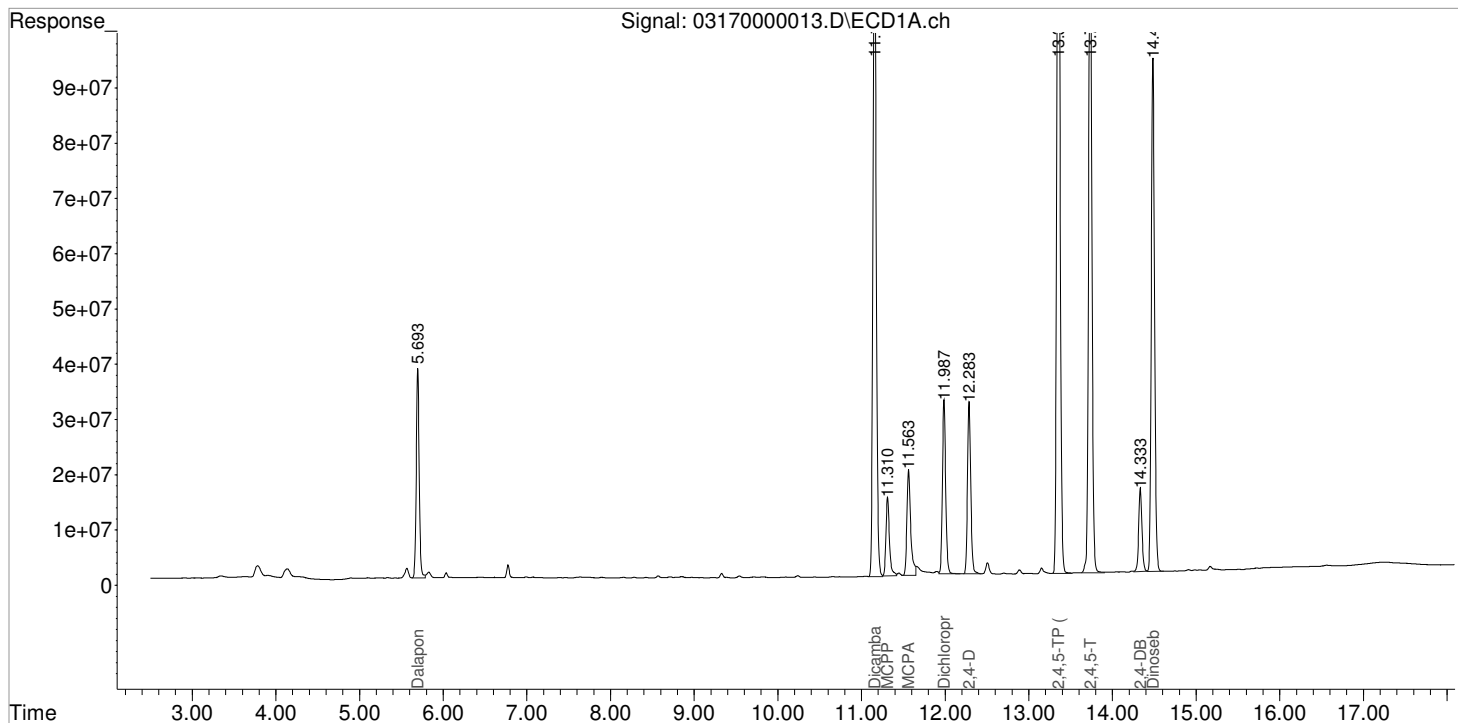
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\031721\03170000013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 15:06:56
Sample : PENTA02-25C-100PPB ICV
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:54:55 2021
Quant Results File: 031721_8151.RES

Vial: 9
Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

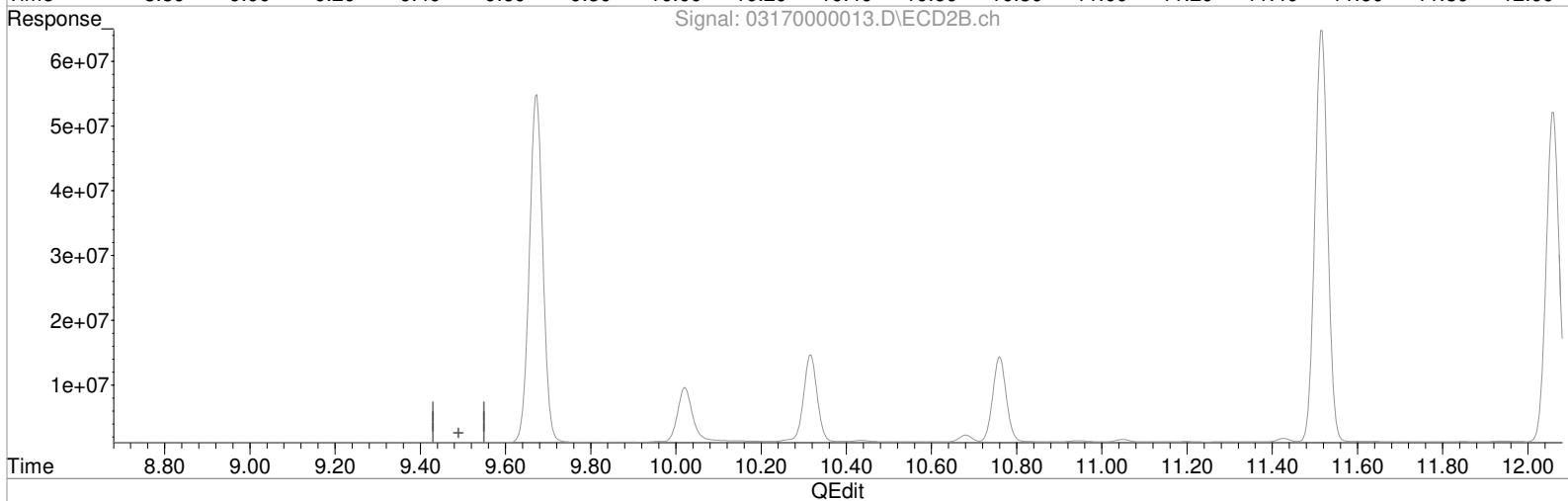
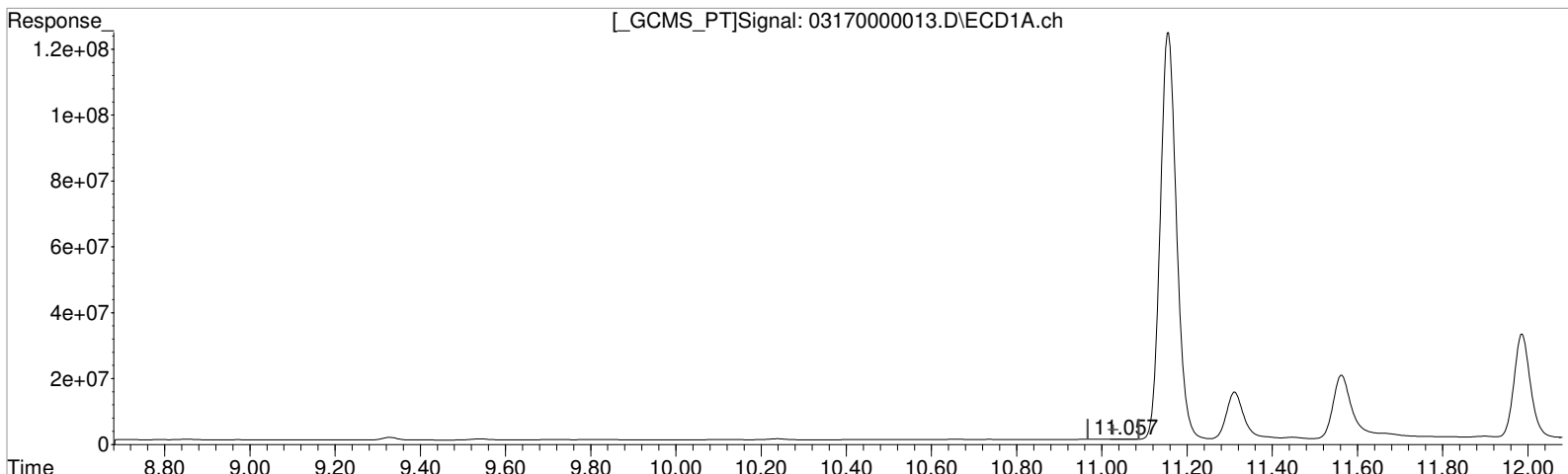
Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\031721\0317000013.D Vial: 9
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 15:06:56 Operator: JTC
Sample : PENTA02-25C-100PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:18:37 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



(2) 2,4-Dichlorophenylacetic Acid (s)

11.057min 0.116 ppb

response 119469

Manual Integration:

Before

03/17/21

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

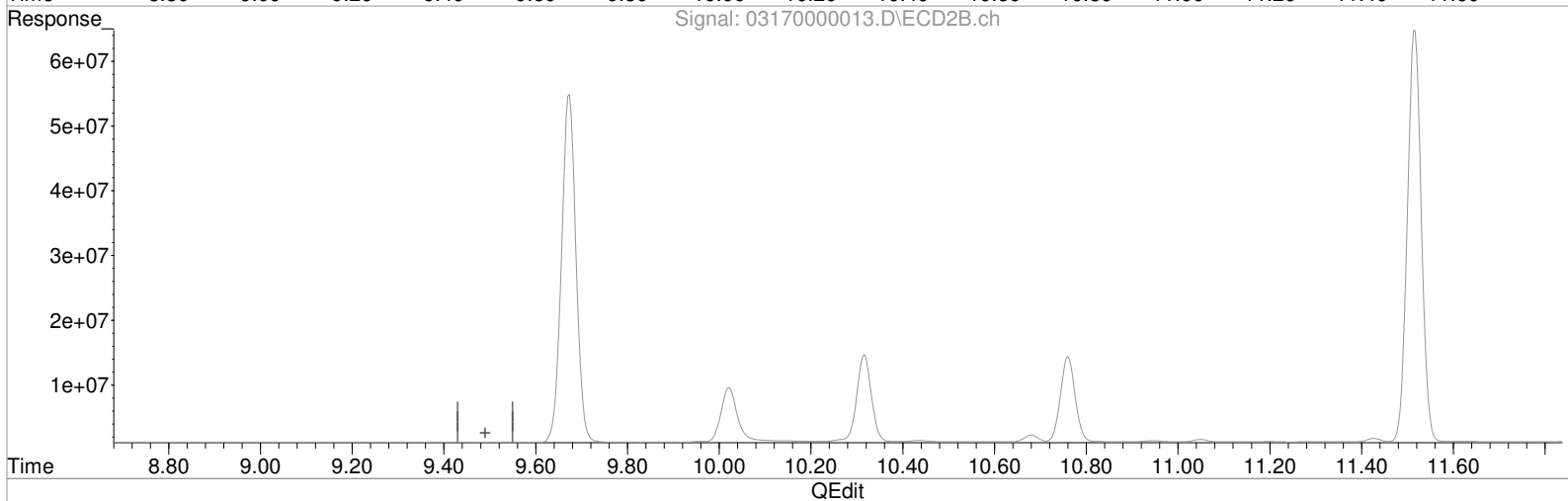
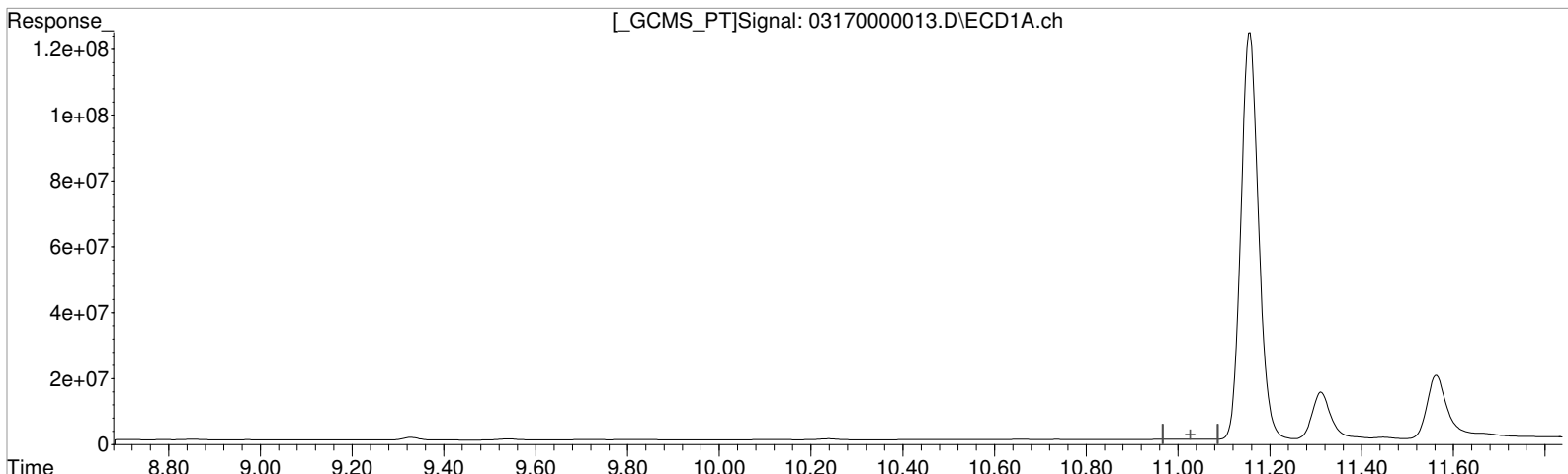
0.000min 0.000 ppb

response 0

Data File : J:\GC34\DATA\031721\03170000013.D Vial: 9
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 15:06:56 Operator: JTC
Sample : PENTA02-25C-100PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:19:59 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



(2) 2,4-Dichlorophenylacetic Acid (s)
0.000min 0.000 ppb d
response 0

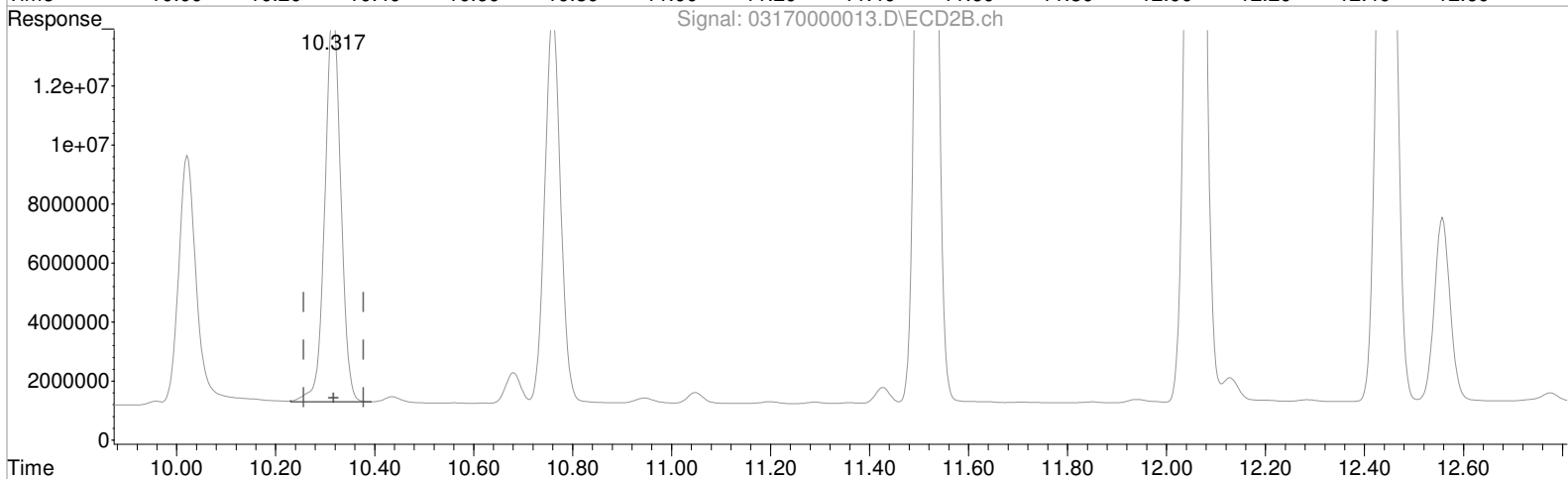
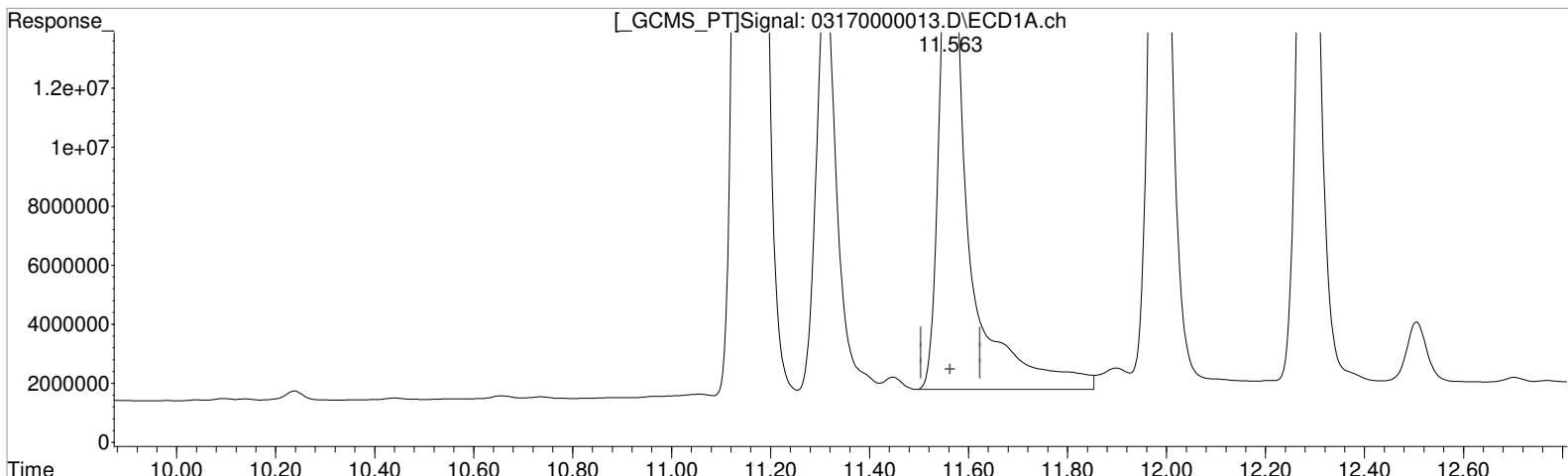
Manual Integration:
After
No surrogate
03/17/21

(2) 2,4-Dichlorophenylacetic Acid #2 (s)
0.000min 0.000 ppb d
response 0

Data File : J:\GC34\DATA\031721\0317000013.D Vial: 9
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 15:06:56 Operator: JTC
Sample : PENTA02-25C-100PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:18:37 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



QEdit

(5) MCPA (m)
11.563min 10394.438 ppb
response 70972025

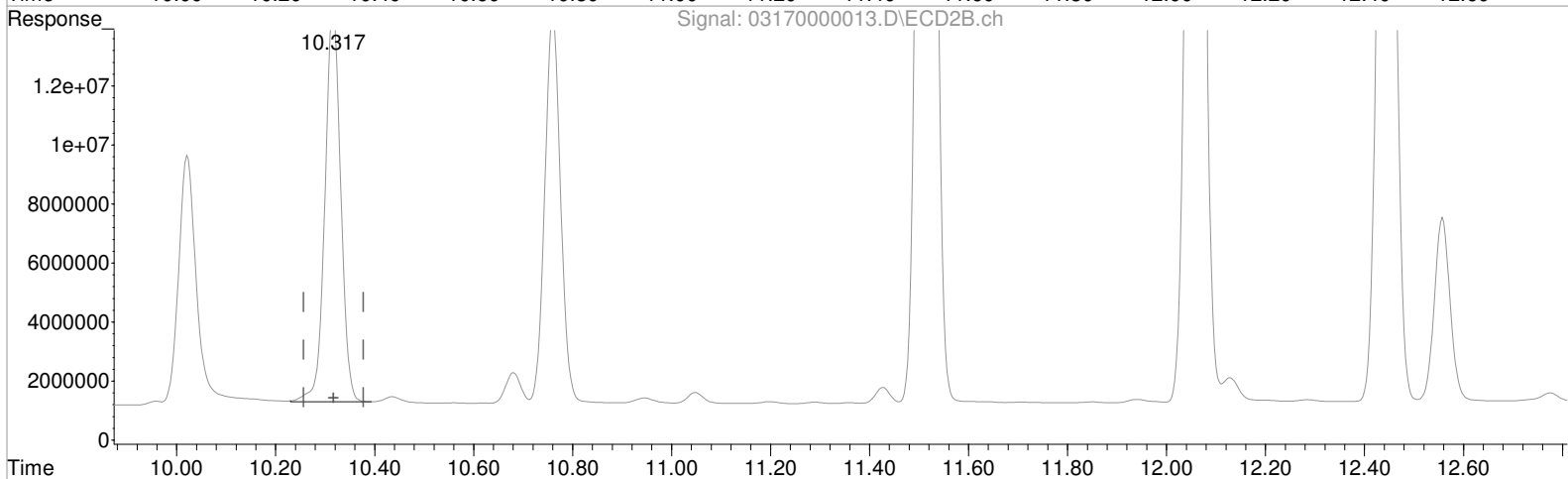
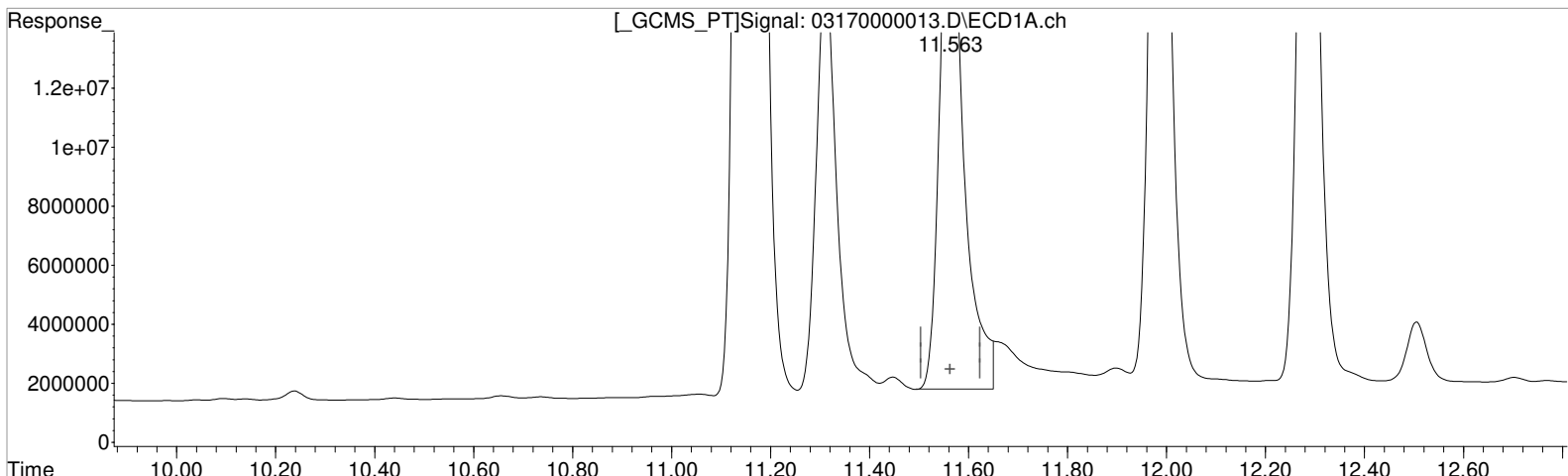
Manual Integration:
Before
03/17/21

(5) MCPA #2 (m)
10.317min 8400.855 ppb
response 29586385

Data File : J:\GC34\DATA\031721\03170000013.D Vial: 9
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 15:06:56 Operator: JTC
Sample : PENTA02-25C-100PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:18:37 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



QEdit

(5) MCPA (m)
11.563min 8898.070 ppb m
response 60754998

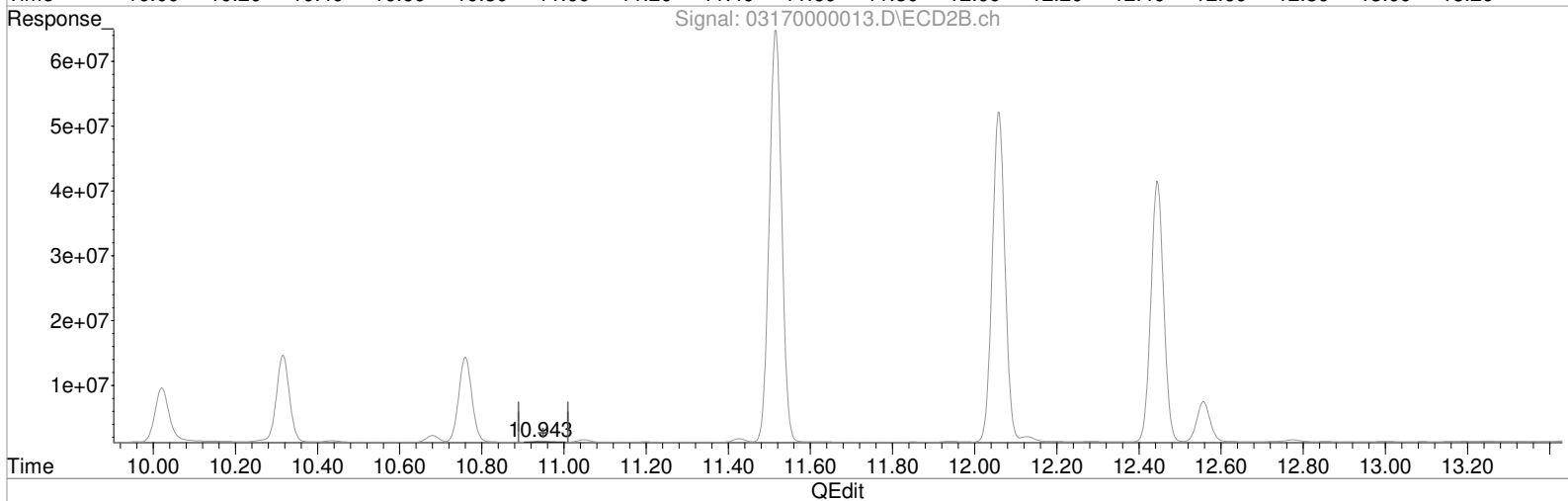
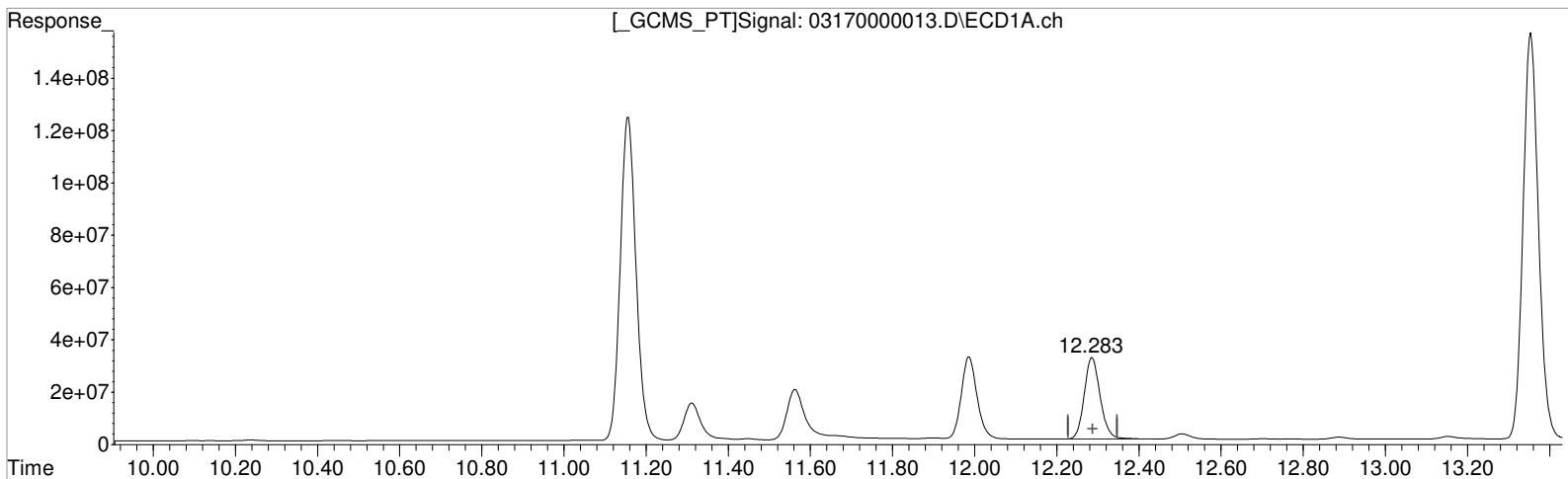
Manual Integration:
After
Baseline/Shoulder
03/17/21

(5) MCPA #2 (m)
10.317min 8400.855 ppb
response 29586385

Data File : J:\GC34\DATA\031721\0317000013.D Vial: 9
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 15:06:56 Operator: JTC
Sample : PENTA02-25C-100PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:19:59 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



(7) 2,4-D (m)
12.283min 86.228 ppb
response 84327872

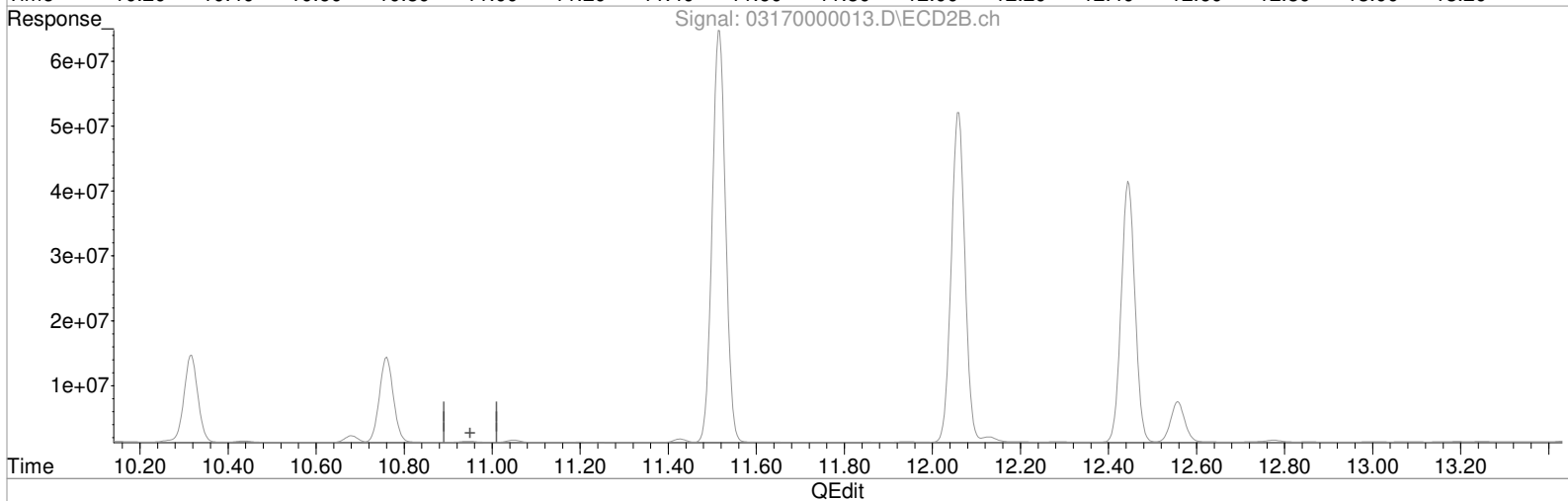
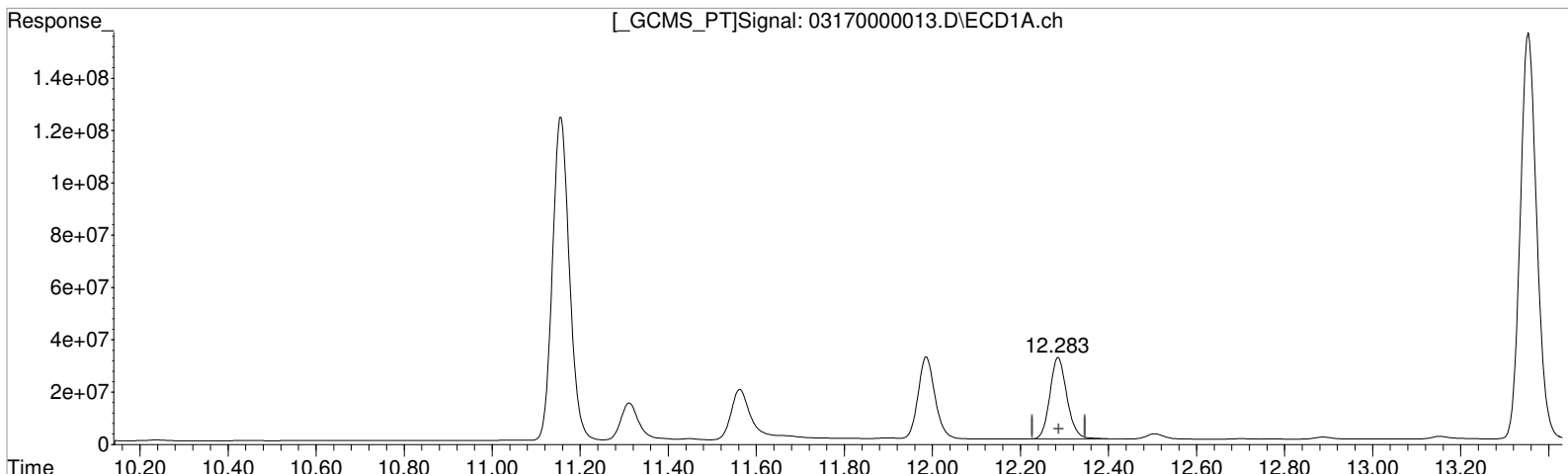
Manual Integration:
Before
03/17/21

(7) 2,4-D #2 (m)
10.943min 0.596 ppb
response 440332

Data File : J:\GC34\DATA\031721\03170000013.D Vial: 9
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17-Mar-2021, 15:06:56 Operator: JTC
Sample : PENTA02-25C-100PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Mar 17 16:19:59 2021
Quant Results File: 031721_8151.RES

Quant Method : J:\GC34\METHODS\031721_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Mar 17 16:17:29 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



(7) 2,4-D (m)
12.283min 86.228 ppb
response 84327872

(7) 2,4-D #2 (m)
0.000min 0.000 ppb d
response 0

Manual Integration:
After
Missing peak
03/17/21

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Location	SampleName DataFile LimsID	Method	Inj	SampleType	InjVolume
1	Vial 100	PRIMER	8151A-17	1	Sample	
2	Vial 100	PRIMER	8151A-17	1	Sample	
3	Vial 6	PENTA02-25J 100PPB C CV	8151A-17	1	Sample	
4	Vial 7	IB	8151A-17	1	Sample	
5	Vial 8	DIAZO CHK	8151A-17	1	Sample	
6	Vial 6	PENTA02-25J 100PPB C CV	8151A-17	1	Sample	
7	Vial 7	IB	8151A-17	1	Sample	
8	Vial 9	KQ2104449-04 MB	8151A-17	1	Sample	
9	Vial 10	KQ2104449-03 LCS	8151A-17	1	Sample	
10	Vial 11	K2101811-002 MS	8151A-17	1	Sample	
11	Vial 12	K2102811-002 DMS	8151A-17	1	Sample	
12	Vial 13	K2102809-011	8151A-17	1	Sample	
13	Vial 14	K2102809-012	8151A-17	1	Sample	
14	Vial 15	K2102809-013	8151A-17	1	Sample	
15	Vial 16	K2102809-014	8151A-17	1	Sample	
16	Vial 17	K2102868-001	8151A-17	1	Sample	
17	Vial 6	PENTA02-25J 100PPB C CV	8151A-17	1	Sample	
18	Vial 7	IB	8151A-17	1	Sample	
19	Vial 18	K2102811-001	8151A-17	1	Sample	
20	Vial 19	K2102811-002	8151A-17	1	Sample	
21	Vial 20	K2102811-003	8151A-17	1	Sample	
22	Vial 21	K2102811-004	8151A-17	1	Sample	
23	Vial 22	K2102811-005	8151A-17	1	Sample	

Line	Location	SampleName DataFile LimsID	Method	Inj	SampleType	InjVolume
24	Vial 23	K2102811-006	8151A-17	1	Sample	
25	Vial 6	PENTA02-25J 100PPB C CV	8151A-17	1	Sample	
26	Vial 7	IB	8151A-17	1	Sample	
27	Vial 26	KQ2104625-02 MB	8151A-17	1	Sample	
28	Vial 27	K2101412-040 LOD	8151A-17	1	Sample	
29	Vial 28	KQ2104625-01 LOQ	8151A-17	1	Sample	
30	Vial 29	KQ2104870-03 MB	8151A-17	1	Sample	
31	Vial 30	KQ2104870-01 LCS	8151A-17	1	Sample	
32	Vial 31	KQ2104870-02 DLCS	8151A-17	1	Sample	
33	Vial 32	K2102462-005	8151A-17	1	Sample	
34	Vial 24	PENTA02-25J 100PPB C CV	8151A-17	1	Sample	
35	Vial 25	IB	8151A-17	1	Sample	
36	Vial 33	KQ2104773-04 MB	8151A-17	1	Sample	
37	Vial 34	KQ2104773-03 LCS	8151A-17	1	Sample	
38	Vial 35	K2102809-008 MS	8151A-17	1	Sample	
39	Vial 36	K2102809-008 DMS	8151A-17	1	Sample	
40	Vial 37	K2102809-001	8151A-17	1	Sample	
41	Vial 38	K2102809-002	8151A-17	1	Sample	
42	Vial 39	K2102809-003	8151A-17	1	Sample	
43	Vial 40	K2102809-004	8151A-17	1	Sample	
44	Vial 41	K2102809-005	8151A-17	1	Sample	
45	Vial 42	K2102809-006	8151A-17	1	Sample	
46	Vial 43	K2102809-007	8151A-17	1	Sample	
47	Vial 44	K2102809-008	8151A-17	1	Sample	
48	Vial 24	PENTA02-25J 100PPB C CV	8151A-17	1	Sample	
49	Vial 25	IB	8151A-17	1	Sample	

Line	Location	SampleName DataFile LimsID	Method	Inj	SampleType	InjVolume
50	Vial 45	K2102809-009	8151A-17	1	Sample	
51	Vial 46	K2102809-010	8151A-17	1	Sample	
52	Vial 47	K2102809-015	8151A-17	1	Sample	
53	Vial 48	K2102809-016	8151A-17	1	Sample	
54	Vial 49	K2102809-017	8151A-17	1	Sample	
55	Vial 50	K2102809-018	8151A-17	1	Sample	
56	Vial 51	K2102809-019	8151A-17	1	Sample	
57	Vial 52	K2102809-20	8151A-17	1	Sample	
58	Vial 24	PENTA02-25J 100PPB C CV	8151A-17	1	Sample	
59	Vial 25	IB	8151A-17	1	Sample	

Sequence Table (Back Injector):

No entries - empty table!

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Location	SampleName DataFile LimsID	Method	Inj	SampleType	InjVolume
1	Vial 100	PRIMER	8151A-17	1	Sample	
2	Vial 100	PRIMER	8151A-17	1	Sample	
3	Vial 6	PENTA02-25J 100PPB C CV	8151A-17	1	Sample	
4	Vial 7	IB	8151A-17	1	Sample	
5	Vial 8	DIAZO CHK	8151A-17	1	Sample	
6	Vial 6	PENTA02-25J 100PPB C CV	8151A-17	1	Sample	
7	Vial 7	IB	8151A-17	1	Sample	
8	Vial 9	KQ2104449-04 MB	8151A-17	1	Sample	
9	Vial 10	KQ2104449-03 LCS	8151A-17	1	Sample	
10	Vial 11	K2101811-002 MS ② 2811	8151A-17	1	Sample	
11	Vial 12	K2102811-002 DMS	8151A-17	1	Sample	
12	Vial 13	K2102809-011	8151A-17	1	Sample	
13	Vial 14	K2102809-012	8151A-17	1	Sample	
14	Vial 15	K2102809-013	8151A-17	1	Sample	
15	Vial 16	K2102809-014	8151A-17	1	Sample	
16	Vial 17	K2102868-001	8151A-17	1	Sample	
17	Vial 6	PENTA02-25J 100PPB C CV	8151A-17	1	Sample	
18	Vial 7	IB	8151A-17	1	Sample	
19	Vial 18	K2102811-001	8151A-17	1	Sample	
20	Vial 19	K2102811-002	8151A-17	1	Sample	
21	Vial 20	K2102811-003	8151A-17	1	Sample	
22	Vial 21	K2102811-004	8151A-17	1	Sample	
23	Vial 22	K2102811-005	8151A-17	1	Sample	

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Line	Location	SampleName DataFile LimsID	Method	Inj	SampleType	InjVolume
24	Vial 23	K2102811-006	8151A-17	1	Sample	
25	Vial 6	PENTA02-25J 100PPB C CV	8151A-17	1	Sample	
26	Vial 7	IB	8151A-17	1	Sample	

Sequence Table (Back Injector):

No entries - empty table!

① EG 3.31.21 JTC