ALS Environmental
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April 20, 2021

Analytical Report for Service Request No: K2103235

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

RE: US Moorings Sediment Soil

Dear Delaney,

Enclosed are the results of the sample(s) submitted to our laboratory March 31, 2021
For your reference, these analyses have been assigned our service request number **K2103235.**

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

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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.pjlabs.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/anlayte is offered by that state.

Case Narrative

ALS Environmental—Kelso Laboratory
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Client: Anchor QEA, LLC
Project: US Moorings Sediment Soil
Sample Matrix: Soil, Water

Service Request: K2103235
Date Received: 03/31/2021

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Four soil, water samples were received for analysis at ALS Environmental on 03/31/2021. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivoa GC:

Method 8151A, 04/15/2021: The control criteria were exceeded for 2,4-Dichlorophenylacetic Acid in SS-RB-2103300910, SS-FB-2103300905, and the Method Blank KQ2105302-03. Since the problem may indicate a potential bias in the analytical batch, all associated field samples were re-extracted and re-analyzed seven days past the recommended hold time. The surrogates met control criteria for the re-analysis. Note the results for the field samples were comparable for both determinations, which indicated the problem with the initial analysis was restricted to the surrogate recovery. Both sets of results were reported. An "RE" suffix was appended to the sample name to designate the results from the re-analysis. The data was flagged to indicate the problem.

Approved by _____ Date 04/20/2021

Chain of Custody

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ANCHOR QEA
1201 3rd Avenue, Suite 2600, Seattle, WA 98101

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

KZ103235

COC ID: ALS-20210330-182804

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

Sample Custodian: SN
Lab: ALS Environmental, Kelso, WA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	# Containers	Lab QC*	Test Request	Method	TAT**	Preservative
001	~~RAB-RB-2103300910~~ SS-RB-2103300910	RB	WQ	03/30/2021	9:10	2	☐				
								Herbicides	SW8151A	30	4°C
002	SS-FB-2103300905	FB	WQ	03/30/2021	9:05	2	☐				
								Herbicides	SW8151A	30	4°C
003	USMPDI-073SS-210330	N	SO	03/30/2021	12:10	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
004	USMPDI-077SS-210330	N	SO	03/30/2021	10:00	2	☒				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C

COC revised on 3/31/2021 by C. Oreiro

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 3/31/21 1230	Date/Time	Date/Time	Date/Time	Date/Time

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

Date Printed: 3/30/2021

PM MH

Cooler Receipt and Preservation Form

Client Anchor QEA Service Request K21 403236

Received: 3/31/21 Opened: 3/31/21 By: [illegible] Unloaded: 3/31/21 By: [illegible]

1. Samples were received via? *USPS* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA (Y) N If yes, how many and where? 1 FRONT
   If present, were custody seals intact? (Y) N If present, were they signed and dated? (Y) N
4. Was a Temperature Blank present in cooler? NA (Y) N If yes, notate 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":
5. 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
1.5		IR01	AGS20210330182804		←		

6. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
7. Were custody papers properly filled out (~~ink, signed~~, etc.)? NA (Y) N
8. Were samples received in good condition (unbroken) NA (Y) N
9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA (Y) N
10. Did all sample labels and tags agree with custody papers? NA ~~(Y)~~ BM (N)
11. Were appropriate bottles/containers and volumes received for the tests indicated? NA (Y) N
12. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* (NA) Y N
13. Were VOA vials received without headspace? *Indicate in the table below.* (NA) Y N
14. 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: Picked up @ APEX

Sample times different on bottles - DAB-VB-210330910 says 1030 & SS-FB-210330905 says 1000.

Total Solids

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Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Collected:**	03/30/21
Sample Matrix:	Soil	**Date Received:**	03/31/21
Analysis Method:	SM 2540 G	**Units:**	Percent
Prep Method:	None	**Basis:**	As Received

Solids, Total

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Q
USMPDI-073SS-210330	K2103235-003	**87.0**	-	-	1	04/02/21 11:45	
USMPDI-077SS-210330	K2103235-004	**78.7**	-	-	1	04/02/21 11:45	
Method Blank	K2103235-MB	ND U	-	-	1	04/02/21 11:45	

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QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project	US Moorings Sediment Soil	**Date Collected:**	03/30/21
Sample Matrix:	Soil	**Date Received:**	03/31/21
		Date Analyzed:	04/02/21

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	USMPDI-077SS-210330	**Units:**	Percent
Lab Code:	K2103235-004	**Basis:**	As Received

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample K2103235-004DUP Result	Average	RPD	RPD Limit
Solids, Total	SM 2540 G	-	-	78.7	77.3	78.0	2	20

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

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Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Collected:**	03/30/21 09:10
Sample Matrix:	Water	**Date Received:**	03/31/21 12:30
Sample Name:	SS-RB-2103300910	**Units:**	ug/L
Lab Code:	K2103235-001	**Basis:**	NA

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 Ui**	0.90	0.90	1	04/15/21 13:24	4/5/21	
2,4-D	ND U	0.40	0.036	1	04/15/21 13:24	4/5/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	13	17 - 113	04/15/21 13:24	*

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Collected:**	03/30/21 09:10
Sample Matrix:	Water	**Date Received:**	03/31/21 12:30
Sample Name:	SS-RB-2103300910	**Units:**	ug/L
Lab Code:	K2103235-001	**Basis:**	NA

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 Ui**	0.19	0.045	1	04/14/21 17:08	4/13/21	*
2,4-D	ND U	0.38	0.036	1	04/14/21 17:08	4/13/21	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	43	17 - 113	04/14/21 17:08	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Collected:**	03/30/21 09:05
Sample Matrix:	Water	**Date Received:**	03/31/21 12:30
Sample Name:	SS-FB-2103300905	**Units:**	ug/L
Lab Code:	K2103235-002	**Basis:**	NA

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 Ui**	0.19	0.045	1	04/14/21 17:32	4/13/21	*
2,4-D	ND U	0.38	0.036	1	04/14/21 17:32	4/13/21	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	37	17 - 113	04/14/21 17:32	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Collected:**	03/30/21 09:05
Sample Matrix:	Water	**Date Received:**	03/31/21 12:30
Sample Name:	SS-FB-2103300905	**Units:**	ug/L
Lab Code:	K2103235-002	**Basis:**	NA

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 Ui**	0.85	0.85	1	04/15/21 13:48	4/5/21	
2,4-D	ND U	0.40	0.036	1	04/15/21 13:48	4/5/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	15	17 - 113	04/15/21 13:48	*

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Collected:**	03/30/21 12:10
Sample Matrix:	Soil	**Date Received:**	03/31/21 12:30
Sample Name:	USMPDI-073SS-210330	**Units:**	ug/Kg
Lab Code:	K2103235-003	**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	04/09/21 01:56	4/2/21	
2,4-D	ND U	57	8.8	1	04/09/21 01:56	4/2/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	81	26 - 127	04/09/21 01:56	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Collected:**	03/30/21 10:00
Sample Matrix:	Soil	**Date Received:**	03/31/21 12:30
Sample Name:	USMPDI-077SS-210330	**Units:**	ug/Kg
Lab Code:	K2103235-004	**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	04/09/21 02:19	4/2/21	
2,4-D	ND U	63	9.7	1	04/09/21 02:19	4/2/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	75	26 - 127	04/09/21 02:19	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KQ2105127-04	**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	49	2.4	1	04/09/21 00:20	4/2/21	
2,4-D	ND U	49	7.7	1	04/09/21 00:20	4/2/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	63	26 - 127	04/09/21 00:20	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KQ2105302-03	**Basis:**	NA

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	0.20	0.045	1	04/15/21 12:12	4/5/21	
2,4-D	ND U	0.40	0.036	1	04/15/21 12:12	4/5/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	9	17 - 113	04/15/21 12:12	*

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KQ2105891-03	**Basis:**	NA

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	0.19	0.045	1	04/14/21 15:56	4/13/21	
2,4-D	ND U	0.38	0.036	1	04/14/21 15:56	4/13/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	30	17 - 113	04/14/21 15:56	

Confirmation Results

Client: Anchor QEA, LLC
Project: US Moorings Sediment Soil
SRM Matrix: Soil

Service Request: K2103235
Date Collected: 03/30/21 10:00
Date Received: 3/31/21

Sample Name: USMPDI-077SS-210330
Lab Code: KQ2105127-01

Units: ug/Kg
Basis: Dry
Percent Solids: 78.7

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)	3.0	161	186	14		1	04/09/21 01:08
2,4-D	9.7	144	182	23		1	04/09/21 01:08

Confirmation Results

Client: Anchor QEA, LLC
Project: US Moorings Sediment Soil
SRM Matrix: Soil

Service Request: K2103235
Date Collected: 03/30/21 10:00
Date Received: 3/31/21

Sample Name: USMPDI-077SS-210330
Lab Code: KQ2105127-02

Units: ug/Kg
Basis: Dry
Percent Solids: 78.7

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)	3.0	164	186	13		1	04/09/21 01:32
2,4-D	9.6	144	181	23		1	04/09/21 01:32

Confirmation Results

Client: Anchor QEA, LLC
Project: US Moorings Sediment Soil
SRM Matrix: Soil

Service Request: K2103235
Date Collected: NA
Date Received:

Sample Name: Lab Control Sample
Lab Code: KQ2105127-03

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	128	144	12		1	04/09/21 00:44
2,4-D	7.7	114	144	23		1	04/09/21 00:44

Confirmation Results

Client: Anchor QEA, LLC
Project: US Moorings Sediment Soil
SRM Matrix: Water

Service Request: K2103235
Date Collected: NA
Date Received:

Sample Name: Lab Control Sample
Lab Code: KQ2105302-01

Units: ug/L
Basis: NA

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)	0.045	1.39	1.39	<1		1	04/15/21 12:36
2,4-D	0.036	1.25	1.28	2		1	04/15/21 12:36

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Confirmation Results

Client: Anchor QEA, LLC
Project: US Moorings Sediment Soil
SRM Matrix: Water

Service Request: K2103235
Date Collected: NA
Date Received:

Sample Name: Duplicate Lab Control Sample
Lab Code: KQ2105302-02

Units: ug/L
Basis: NA

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)	0.045	1.48	1.49	<1		1	04/15/21 13:00
2,4-D	0.036	1.39	1.41	1		1	04/15/21 13:00

Confirmation Results

Client: Anchor QEA, LLC
Project: US Moorings Sediment Soil
SRM Matrix: Water

Service Request: K2103235
Date Collected: NA
Date Received:

Sample Name: Lab Control Sample
Lab Code: KQ2105891-01

Units: ug/L
Basis: NA

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)	0.045	1.55	1.62	4		1	04/14/21 16:20
2,4-D	0.036	1.36	1.44	6		1	04/14/21 16:20

Confirmation Results

Client: Anchor QEA, LLC
Project: US Moorings Sediment Soil
SRM Matrix: Water

Service Request: K2103235
Date Collected: NA
Date Received:

Sample Name: Duplicate Lab Control Sample
Lab Code: KQ2105891-02

Units: ug/L
Basis: NA

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)	0.045	1.70	1.74	2		1	04/14/21 16:44
2,4-D	0.036	1.66	1.66	<1		1	04/14/21 16:44

Client: Anchor QEA, LLC **Service Request:** K2103235
Project: US Moorings Sediment Soil
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A
Extraction Method: Method

Sample Name	Lab Code	2,4-Dichlorophenylacetic Acid 17-113
SS-RB-2103300910	K2103235-001	13*
SS-RB-2103300910 RE1	K2103235-001	43
SS-FB-2103300905	K2103235-002	15*
SS-FB-2103300905 RE1	K2103235-002	37
Method Blank	KQ2105302-03	9*
Method Blank	KQ2105891-03	30
Lab Control Sample	KQ2105302-01	22
Duplicate Lab Control Sample	KQ2105302-02	25
Lab Control Sample	KQ2105891-01	30
Duplicate Lab Control Sample	KQ2105891-02	60

Client: Anchor QEA, LLC **Service Request:** K2103235

Project: US Moorings Sediment Soil

Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A

Extraction Method: Method

Sample Name	Lab Code	2,4-Dichlorophenylacetic Acid 17-113
USMPDI-073SS-210330	K2103235-003	81
USMPDI-077SS-210330	K2103235-004	75
Method Blank	KQ2105127-04	63
Lab Control Sample	KQ2105127-03	76
USMPDI-077SS-210330	KQ2105127-01	76
USMPDI-077SS-210330	KQ2105127-02	71

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Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Collected:**	03/30/21
Sample Matrix:	Soil	**Date Received:**	03/31/21
		Date Analyzed:	04/9/21
		Date Extracted:	04/2/21

Duplicate Matrix Spike Summary
Chlorinated Herbicides by GC

Sample Name:	USMPDI-077SS-210330	**Units:**	ug/Kg
Lab Code:	K2103235-004	**Basis:**	Dry
Analysis Method:	8151A		
Prep Method:	Method		

		Matrix Spike KQ2105127-01			**Duplicate Matrix Spike** KQ2105127-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2,4,5-TP (Silvex)	ND U	161	208	77	164	206	79	34-129	2	40
2,4-D	ND U	144	208	69	144	206	70	35-129	<1	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.

Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Analyzed:**	04/09/21
Sample Matrix:	Soil	**Date Extracted:**	04/02/21

Lab Control Sample Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Units:**	ug/Kg
Prep Method:	Method	**Basis:**	Dry
		Analysis Lot:	719207

Lab Control Sample
KQ2105127-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
2,4,5-TP (Silvex)	128	165	78	46-125
2,4-D	114	165	69	46-120

Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Analyzed:**	04/15/21
Sample Matrix:	Water	**Date Extracted:**	04/05/21

Duplicate Lab Control Sample Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Units:**	ug/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	719860

	Lab Control Sample KQ2105302-01			Duplicate Lab Control Sample KQ2105302-02					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2,4,5-TP (Silvex)	1.39	2.50	56	1.48	2.50	59	37-114	6	30
2,4-D	1.25	2.50	50	1.39	2.50	56	35-110	11	30

Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Analyzed:**	04/14/21
Sample Matrix:	Water	**Date Extracted:**	04/13/21

Duplicate Lab Control Sample Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Units:**	ug/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	719851

	Lab Control Sample KQ2105891-01			Duplicate Lab Control Sample KQ2105891-02					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2,4,5-TP (Silvex)	1.55	2.50	62	1.70	2.50	68	37-114	9	30
2,4-D	1.36	2.50	54	1.66	2.50	66	35-110	20	30

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Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Analyzed:**	04/09/21 00:20
Sample Matrix:	Soil	**Date Extracted:**	04/02/21

Method Blank Summary
Chlorinated Herbicides by GC

Sample Name:	Method Blank	**Instrument ID:**	K-GC-34
Lab Code:	KQ2105127-04	**File ID:**	J:\GC34\DATA\040821-HB\04080000023.D\
Analysis Method:	8151A	**Analysis Lot:**	719207
Prep Method:	Method	**Extraction Lot:**	376743

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	KQ2105127-03	J:\GC34\DATA\040821-HB\04080000024.D\	04/09/21 00:44
USMPDI-077SS-210330MS	KQ2105127-01	J:\GC34\DATA\040821-HB\04080000025.D\	04/09/21 01:08
USMPDI-077SS-210330DMS	KQ2105127-02	J:\GC34\DATA\040821-HB\04080000026.D\	04/09/21 01:32
USMPDI-073SS-210330	K2103235-003	J:\GC34\DATA\040821-HB\04080000027.D\	04/09/21 01:56
USMPDI-077SS-210330	K2103235-004	J:\GC34\DATA\040821-HB\04080000028.D\	04/09/21 02:19

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Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Analyzed:**	04/15/21 12:12
Sample Matrix:	Water	**Date Extracted:**	04/05/21

Method Blank Summary
Chlorinated Herbicides by GC

Sample Name:	Method Blank	**Instrument ID:**	K-GC-34
Lab Code:	KQ2105302-03	**File ID:**	J:\GC34\DATA\041521-HB\04150000005.D\
Analysis Method:	8151A	**Analysis Lot:**	719860
Prep Method:	Method	**Extraction Lot:**	376888

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	KQ2105302-01	J:\GC34\DATA\041521-HB\04150000006.D\	04/15/21 12:36
Duplicate Lab Control Sample	KQ2105302-02	J:\GC34\DATA\041521-HB\04150000007.D\	04/15/21 13:00
SS-RB-2103300910	K2103235-001	J:\GC34\DATA\041521-HB\04150000008.D\	04/15/21 13:24
SS-FB-2103300905	K2103235-002	J:\GC34\DATA\041521-HB\04150000009.D\	04/15/21 13:48

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QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Analyzed:**	04/14/21 15:56
Sample Matrix:	Water	**Date Extracted:**	04/13/21

Method Blank Summary
Chlorinated Herbicides by GC

Sample Name:	Method Blank	**Instrument ID:**	K-GC-34
Lab Code:	KQ2105891-03	**File ID:**	J:\GC34\DATA\041421-HB\04140000005.D\
Analysis Method:	8151A	**Analysis Lot:**	719851
Prep Method:	Method	**Extraction Lot:**	377380

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	KQ2105891-01	J:\GC34\DATA\041421-HB\04140000006.D\	04/14/21 16:20
Duplicate Lab Control Sample	KQ2105891-02	J:\GC34\DATA\041421-HB\04140000007.D\	04/14/21 16:44
SS-RB-2103300910	K2103235-001	J:\GC34\DATA\041421-HB\04140000008.D\	04/14/21 17:08
SS-FB-2103300905	K2103235-002	J:\GC34\DATA\041421-HB\04140000009.D\	04/14/21 17:32

Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Analyzed:**	04/09/21 00:44
Sample Matrix:	Soil	**Date Extracted:**	04/02/21

Lab Control Sample Summary
Chlorinated Herbicides by GC

Sample Name:	Lab Control Sample	**Instrument ID:**	K-GC-34
Lab Code:	KQ2105127-03	**File ID:**	J:\GC34\DATA\040821-HB\04080000024.D\
Analysis Method:	8151A	**Analysis Lot:**	719207
Prep Method:	Method	**Extraction Lot:**	376743

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ2105127-04	J:\GC34\DATA\040821-HB\04080000023.D\	04/09/21 00:20
USMPDI-077SS-210330MS	KQ2105127-01	J:\GC34\DATA\040821-HB\04080000025.D\	04/09/21 01:08
USMPDI-077SS-210330DMS	KQ2105127-02	J:\GC34\DATA\040821-HB\04080000026.D\	04/09/21 01:32
USMPDI-073SS-210330	K2103235-003	J:\GC34\DATA\040821-HB\04080000027.D\	04/09/21 01:56
USMPDI-077SS-210330	K2103235-004	J:\GC34\DATA\040821-HB\04080000028.D\	04/09/21 02:19

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QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Analyzed:**	04/15/21 12:36
Sample Matrix:	Water	**Date Extracted:**	04/05/21

Lab Control Sample Summary
Chlorinated Herbicides by GC

Sample Name:	Lab Control Sample	**Instrument ID:**	K-GC-34
Lab Code:	KQ2105302-01	**File ID:**	J:\GC34\DATA\041521-HB\04150000006.D\
Analysis Method:	8151A	**Analysis Lot:**	719860
Prep Method:	Method	**Extraction Lot:**	376888

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ2105302-03	J:\GC34\DATA\041521-HB\04150000005.D\	04/15/21 12:12
Duplicate Lab Control Sample	KQ2105302-02	J:\GC34\DATA\041521-HB\04150000007.D\	04/15/21 13:00
SS-RB-2103300910	K2103235-001	J:\GC34\DATA\041521-HB\04150000008.D\	04/15/21 13:24
SS-FB-2103300905	K2103235-002	J:\GC34\DATA\041521-HB\04150000009.D\	04/15/21 13:48

Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Analyzed:**	04/14/21 16:20
Sample Matrix:	Water	**Date Extracted:**	04/13/21

Lab Control Sample Summary
Chlorinated Herbicides by GC

Sample Name:	Lab Control Sample	**Instrument ID:**	K-GC-34
Lab Code:	KQ2105891-01	**File ID:**	J:\GC34\DATA\041421-HB\04140000006.D\
Analysis Method:	8151A	**Analysis Lot:**	719851
Prep Method:	Method	**Extraction Lot:**	377380

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ2105891-03	J:\GC34\DATA\041421-HB\04140000005.D\	04/14/21 15:56
Duplicate Lab Control Sample	KQ2105891-02	J:\GC34\DATA\041421-HB\04140000007.D\	04/14/21 16:44
SS-RB-2103300910	K2103235-001	J:\GC34\DATA\041421-HB\04140000008.D\	04/14/21 17:08
SS-FB-2103300905	K2103235-002	J:\GC34\DATA\041421-HB\04140000009.D\	04/14/21 17:32

Client: Anchor QEA, LLC **Service Request:** K2103235
Project: US Moorings Sediment Soil **Calibration Date:** 4/13/2021

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100209 **Signal ID:** Rtx-CLPesticides
Instrument ID: K-GC-34

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC2100209-01	PENTA02-27F 10 PPB	J:\GC34\DATA\041321-HB\04130000004.D	04/13/2021 11:15
02	KC2100209-02	PENTA02-27G 25 PPB	J:\GC34\DATA\041321-HB\04130000005.D	04/13/2021 11:39
03	KC2100209-03	PENTA02-27H 75 PPB	J:\GC34\DATA\041321-HB\04130000006.D	04/13/2021 12:03
04	KC2100209-04	PENTA02-27I 100 PPB	J:\GC34\DATA\041321-HB\04130000007.D	04/13/2021 12:27
05	KC2100209-05	PENTA02-27J 125 PPB	J:\GC34\DATA\041321-HB\04130000008.D	04/13/2021 12:51
06	KC2100209-06	PENTA02-27K 150 PPB	J:\GC34\DATA\041321-HB\04130000009.D	04/13/2021 13:15
07	KC2100209-07	PENTA02-27L 175 PPB	J:\GC34\DATA\041321-HB\04130000010.D	04/13/2021 13:39
08	KC2100209-08	PENTA02-27M 200 PPB	J:\GC34\DATA\041321-HB\04130000011.D	04/13/2021 14:03

Analyte

2,4,5-TP (Silvex)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.510	2.494E6	02	23.760	2.712E6	03	71.300	3.121E6	04	95.100	3.205E6
05	118.820	3.227E6	06	142.580	3.249E6	07	166.340	3.266E6	08	190.100	3.262E6

2,4-D

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	6.786E5	02	23.510	6.393E5	03	70.500	7.107E5	04	94.000	7.303E5
05	117.540	7.171E5	06	141.050	7.49E5	07	164.560	7.495E5	08	188.060	7.576E5

2,4-Dichlorophenylacetic Acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.020	8.072E5	02	22.550	7.884E5	03	67.600	8.079E5	04	90.200	8.152E5
05	112.730	8.108E5	06	135.280	8.074E5	07	157.830	8.113E5	08	180.370	8.07E5

Client: Anchor QEA, LLC
Project: US Moorings Sediment Soil
Service Request: K2103235
Calibration Date: 4/13/2021

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100209
Instrument ID: K-GC-34
Signal ID: Rtx-CLPesticides

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
2,4,5-TP (Silvex)	TRG	Average RF	% RSD	9.6	≤20	3.067E6	
2,4-D	TRG	Average RF	% RSD	5.6	≤20	7.165E5	
2,4-Dichlorophenylacetic Acid	SURR	Average RF	% RSD	1.0	≤20	8.069E5	

Client: Anchor QEA, LLC **Service Request:** K2103235
Project: US Moorings Sediment Soil **Calibration Date:** 4/13/2021

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100209 **Signal ID:** Rtx-CLPesticides2
Instrument ID: K-GC-34

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC2100209-01	PENTA02-27F 10 PPB	J:\GC34\DATA\041321-HB\04130000004.D	04/13/2021 11:15
02	KC2100209-02	PENTA02-27G 25 PPB	J:\GC34\DATA\041321-HB\04130000005.D	04/13/2021 11:39
03	KC2100209-03	PENTA02-27H 75 PPB	J:\GC34\DATA\041321-HB\04130000006.D	04/13/2021 12:03
04	KC2100209-04	PENTA02-27I 100 PPB	J:\GC34\DATA\041321-HB\04130000007.D	04/13/2021 12:27
05	KC2100209-05	PENTA02-27J 125 PPB	J:\GC34\DATA\041321-HB\04130000008.D	04/13/2021 12:51
06	KC2100209-06	PENTA02-27K 150 PPB	J:\GC34\DATA\041321-HB\04130000009.D	04/13/2021 13:15
07	KC2100209-07	PENTA02-27L 175 PPB	J:\GC34\DATA\041321-HB\04130000010.D	04/13/2021 13:39
08	KC2100209-08	PENTA02-27M 200 PPB	J:\GC34\DATA\041321-HB\04130000011.D	04/13/2021 14:03

Analyte

2,4,5-TP (Silvex)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.510	1.424E6	02	23.760	1.452E6	03	71.300	1.583E6	04	95.100	1.618E6
05	118.820	1.638E6	06	142.580	1.649E6	07	166.340	1.657E6	08	190.100	1.652E6

2,4-D

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	4.111E5	02	23.510	3.803E5	03	70.500	3.8E5	04	94.000	3.857E5
05	117.540	3.887E5	06	141.050	3.904E5	07	164.560	3.934E5	08	188.060	3.93E5

2,4-Dichlorophenylacetic Acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.020	4.794E5	02	22.550	4.342E5	03	67.600	4.181E5	04	90.200	4.163E5
05	112.730	4.129E5	06	135.280	4.115E5	07	157.830	4.116E5	08	180.370	4.089E5

Client: Anchor QEA, LLC **Service Request:** K2103235
Project: US Moorings Sediment Soil **Calibration Date:** 4/13/2021

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100209 **Signal ID:** Rtx-CLPesticides2
Instrument ID: K-GC-34

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
2,4,5-TP (Silvex)	TRG	Average RF	% RSD	5.9	≤20	1.584E6	
2,4-D	TRG	Average RF	% RSD	2.5	≤20	3.903E5	
2,4-Dichlorophenylacetic Acid	SURR	Average RF	% RSD	5.6	≤20	4.241E5	

Client: Anchor QEA, LLC **Service Request:** K2103235
Project: US Moorings Sediment Soil **Calibration Date:** 4/5/2021

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100194 **Signal ID:** Rtx-CLPesticides
Instrument ID: K-GC-34

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC2100194-01	PENTA02-26L 10 PPB	J:\GC34\DATA\040521\04050000005.D	04/05/2021 12:24
02	KC2100194-02	PENTA02-26M 25 PPB	J:\GC34\DATA\040521\04050000006.D	04/05/2021 12:48
03	KC2100194-03	PENTA02-26N 75 PPB	J:\GC34\DATA\040521\04050000007.D	04/05/2021 13:12
04	KC2100194-04	PENTA02-27A 100 PPB	J:\GC34\DATA\040521\04050000008.D	04/05/2021 13:37
05	KC2100194-05	PENTA02-27B 125 PPB	J:\GC34\DATA\040521\04050000009.D	04/05/2021 14:01
06	KC2100194-06	PENTA02-27C 150 PPB	J:\GC34\DATA\040521\04050000010.D	04/05/2021 14:25
07	KC2100194-07	PENTA02-27D 175 PPB	J:\GC34\DATA\040521\04050000011.D	04/05/2021 14:49
08	KC2100194-08	PENTA02-27E 200 PPB	J:\GC34\DATA\040521\04050000012.D	04/05/2021 15:13

Analyte

2,4,5-TP (Silvex)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.510	4.629E6	02	23.760	4.469E6	03	71.300	4.893E6	04	95.100	4.946E6
05	118.820	4.859E6	06	142.580	4.982E6	07	166.340	4.856E6	08	190.100	5.007E6

2,4-D

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	1.147E6	02	23.510	1.142E6	03	70.500	1.197E6	04	94.000	1.195E6
05	117.540	1.17E6	06	141.050	1.189E6	07	164.560	1.165E6	08	188.060	1.188E6

2,4-Dichlorophenylacetic Acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.020	1.274E6	02	22.550	1.025E6	03	67.600	1.006E6	04	90.200	9.958E5
05	112.730	9.83E5	06	135.280	9.81E5	07	157.830	9.657E5	08	180.370	9.722E5

Client: Anchor QEA, LLC
Project: US Moorings Sediment Soil

Service Request: K2103235
Calibration Date: 4/5/2021

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100194
Instrument ID: K-GC-34

Signal ID: Rtx-CLPesticides

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
2,4,5-TP (Silvex)	TRG	Average RF	% RSD	3.9	≤20	4.83E6	
2,4-D	TRG	Average RF	% RSD	1.8	≤20	1.174E6	
2,4-Dichlorophenylacetic Acid	SURR	Average RF	% RSD	10.0	≤20	1.025E6	

Client: Anchor QEA, LLC **Service Request:** K2103235
Project: US Moorings Sediment Soil **Calibration Date:** 4/5/2021

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100194 **Signal ID:** Rtx-CLPesticides2
Instrument ID: K-GC-34

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC2100194-01	PENTA02-26L 10 PPB	J:\GC34\DATA\040521\04050000005.D	04/05/2021 12:24
02	KC2100194-02	PENTA02-26M 25 PPB	J:\GC34\DATA\040521\04050000006.D	04/05/2021 12:48
03	KC2100194-03	PENTA02-26N 75 PPB	J:\GC34\DATA\040521\04050000007.D	04/05/2021 13:12
04	KC2100194-04	PENTA02-27A 100 PPB	J:\GC34\DATA\040521\04050000008.D	04/05/2021 13:37
05	KC2100194-05	PENTA02-27B 125 PPB	J:\GC34\DATA\040521\04050000009.D	04/05/2021 14:01
06	KC2100194-06	PENTA02-27C 150 PPB	J:\GC34\DATA\040521\04050000010.D	04/05/2021 14:25
07	KC2100194-07	PENTA02-27D 175 PPB	J:\GC34\DATA\040521\04050000011.D	04/05/2021 14:49
08	KC2100194-08	PENTA02-27E 200 PPB	J:\GC34\DATA\040521\04050000012.D	04/05/2021 15:13

Analyte

2,4,5-TP (Silvex)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.510	1.386E6	02	23.760	1.412E6	03	71.300	1.537E6	04	95.100	1.522E6
05	118.820	1.533E6	06	142.580	1.526E6	07	166.340	1.52E6	08	190.100	1.54E6

2,4-D

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	8.391E5	02	23.510	7.831E5	03	70.500	7.912E5	04	94.000	7.777E5
05	117.540	7.79E5	06	141.050	7.72E5	07	164.560	7.658E5	08	188.060	7.722E5

2,4-Dichlorophenylacetic Acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.020	4.566E5	02	22.550	4.22E5	03	67.600	4.108E5	04	90.200	4.003E5
05	112.730	3.959E5	06	135.280	3.881E5	07	157.830	3.882E5	08	180.370	3.891E5

Client: Anchor QEA, LLC
Project: US Moorings Sediment Soil
Service Request: K2103235
Calibration Date: 4/5/2021

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100194
Instrument ID: K-GC-34
Signal ID: Rtx-CLPesticides2

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
2,4,5-TP (Silvex)	TRG	Average RF	% RSD	4.1	≤20	1.497E6	
2,4-D	TRG	Average RF	% RSD	3.0	≤20	7.85E5	
2,4-Dichlorophenylacetic Acid	SURR	Average RF	% RSD	5.8	≤20	4.064E5	

Client: Anchor QEA, LLC **Service Request:** K2103235
Project: US Moorings Sediment Soil **Calibration Date:** 4/13/2021

Initial Calibration Verification Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100209 **Signal ID:** Rtx-CLPesticides
Instrument ID: K-GC-34

#	Lab Code	Sample Name	File Location	Acquisition Date
09	KC2100209-09	PENTA02-27N 100 PPB ICV	J:\GC34\DATA\041321-HB\04130000012.D	04/13/2021 14:27

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	94.1	3.067E6	3.034E6	-1.066	±20	Average RF
2,4-D	94.0	84.9	7.165E5	6.468E5	-9.733	±20	Average RF

Client: Anchor QEA, LLC **Service Request:** K2103235
Project: US Moorings Sediment Soil **Calibration Date:** 4/13/2021

Initial Calibration Verification Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100209 **Signal ID:** Rtx-CLPesticides2
Instrument ID: K-GC-34

#	Lab Code	Sample Name	File Location	Acquisition Date
09	KC2100209-09	PENTA02-27N 100 PPB ICV	J:\GC34\DATA\041321-HB\04130000012.D	04/13/2021 14:27

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	92.4	1.584E6	1.539E6	-2.881	±20	Average RF
2,4-D	94.0	87.9	3.903E5	3.65E5	-6.489	±20	Average RF

Client: Anchor QEA, LLC **Service Request:** K2103235
Project: US Moorings Sediment Soil **Calibration Date:** 4/5/2021

Initial Calibration Verification Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100194 **Signal ID:** Rtx-CLPesticides
Instrument ID: K-GC-34

#	Lab Code	Sample Name	File Location	Acquisition Date
09	KC2100194-09	PENTA02-26K 100PPB ICV	J:\GC34\DATA\040521\04050000013.D	04/05/2021 15:37

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	88.8	4.83E6	4.511E6	-6.600	±20	Average RF
2,4-D	94.0	82.7	1.174E6	1.033E6	-12.065	±20	Average RF

Client: Anchor QEA, LLC **Service Request:** K2103235
Project: US Moorings Sediment Soil **Calibration Date:** 4/5/2021

Initial Calibration Verification Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100194 **Signal ID:** Rtx-CLPesticides2
Instrument ID: K-GC-34

#	Lab Code	Sample Name	File Location	Acquisition Date
09	KC2100194-09	PENTA02-26K 100PPB ICV	J:\GC34\DATA\040521\04050000013.D	04/05/2021 15:37

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	88.6	1.497E6	1.395E6	-6.806	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Analyzed:**	04/08/21 23:33

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	4/5/2021
File ID:	J:\GC34\DATA\040821-HB\04080000021.D\	**Calibration ID:**	KC2100194
Signal ID:	Rtx-CLPesticides2	**Analysis Lot:**	719207
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	92.0	1.497E6	1.448E6	-3.3	NA	±20	Average RF
2,4-D	94.0	87.7	7.85E5	7.325E5	-6.7	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	86.1	4.064E5	3.5E5	-13.9	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Analyzed:**	04/08/21 23:33

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	4/5/2021
File ID:	J:\GC34\DATA\040821-HB\04080000021.D\	**Calibration ID:**	KC2100194
Signal ID:	Rtx-CLPesticides	**Analysis Lot:**	719207
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	102	4.83E6	5.189E6	7.4	NA	±20	Average RF
2,4-D	94.0	99.3	1.174E6	1.24E6	5.6	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	92.2	1.025E6	9.455E5	-7.8	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Analyzed:**	04/09/21 05:06

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	4/5/2021
File ID:	J:\GC34\DATA\040821-HB\04080000035.D\	**Calibration ID:**	KC2100194
Signal ID:	Rtx-CLPesticides2	**Analysis Lot:**	719207
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	95.3	1.497E6	1.5E6	0.2	NA	±20	Average RF
2,4-D	94.0	90.1	7.85E5	7.524E5	-4.2	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	87.5	4.064E5	3.555E5	-12.5	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Analyzed:**	04/09/21 05:06

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	4/5/2021
File ID:	J:\GC34\DATA\040821-HB\04080000035.D\	**Calibration ID:**	KC2100194
Signal ID:	Rtx-CLPesticides	**Analysis Lot:**	719207
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	106	4.83E6	5.394E6	11.7	NA	±20	Average RF
2,4-D	94.0	102	1.174E6	1.279E6	8.9	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	95.9	1.025E6	9.833E5	-4.1	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Analyzed:**	04/14/21 15:07

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	4/13/2021
File ID:	J:\GC34\DATA\041421-HB\04140000003.D\	**Calibration ID:**	KC2100209
Signal ID:	Rtx-CLPesticides2	**Analysis Lot:**	719851
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	92.8	1.584E6	1.545E6	-2.5	NA	±20	Average RF
2,4-D	94.0	89.1	3.903E5	3.701E5	-5.2	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	85.9	4.241E5	3.645E5	-14.1	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Analyzed:**	04/14/21 15:07

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	4/13/2021
File ID:	J:\GC34\DATA\041421-HB\04140000003.D\	**Calibration ID:**	KC2100209
Signal ID:	Rtx-CLPesticides	**Analysis Lot:**	719851
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	93.4	3.067E6	3.013E6	-1.8	NA	±20	Average RF
2,4-D	94.0	89.3	7.165E5	6.809E5	-5.0	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	86.2	8.069E5	6.954E5	-13.8	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Analyzed:**	04/14/21 18:20

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	4/13/2021
File ID:	J:\GC34\DATA\041421-HB\04140000011.D\	**Calibration ID:**	KC2100209
Signal ID:	Rtx-CLPesticides2	**Analysis Lot:**	719851
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	95.7	1.584E6	1.593E6	0.6	NA	±20	Average RF
2,4-D	94.0	92.9	3.903E5	3.857E5	-1.2	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	89.1	4.241E5	3.777E5	-10.9	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Analyzed:**	04/14/21 18:20

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	4/13/2021
File ID:	J:\GC34\DATA\041421-HB\04140000011.D\	**Calibration ID:**	KC2100209
Signal ID:	Rtx-CLPesticides	**Analysis Lot:**	719851
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	97.3	3.067E6	3.138E6	2.3	NA	±20	Average RF
2,4-D	94.0	94.2	7.165E5	7.181E5	0.2	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	90.1	8.069E5	7.268E5	-9.9	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Analyzed:**	04/15/21 11:23

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	4/13/2021
File ID:	J:\GC34\DATA\041521-HB\04150000003.D\	**Calibration ID:**	KC2100209
Signal ID:	Rtx-CLPesticides2	**Analysis Lot:**	719860
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	93.9	1.584E6	1.564E6	-1.3	NA	±20	Average RF
2,4-D	94.0	91.0	3.903E5	3.779E5	-3.2	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	87.2	4.241E5	3.697E5	-12.8	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Analyzed:**	04/15/21 11:23

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	4/13/2021
File ID:	J:\GC34\DATA\041521-HB\04150000003.D\	**Calibration ID:**	KC2100209
Signal ID:	Rtx-CLPesticides	**Analysis Lot:**	719860
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	94.4	3.067E6	3.046E6	-0.7	NA	±20	Average RF
2,4-D	94.0	91.8	7.165E5	6.994E5	-2.4	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	87.1	8.069E5	7.025E5	-12.9	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Analyzed:**	04/15/21 14:36

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	4/13/2021
File ID:	J:\GC34\DATA\041521-HB\04150000011.D\	**Calibration ID:**	KC2100209
Signal ID:	Rtx-CLPesticides	**Analysis Lot:**	719860
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	100	3.067E6	3.239E6	5.6	NA	±20	Average RF
2,4-D	94.0	95.7	7.165E5	7.295E5	1.8	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	90.5	8.069E5	7.306E5	-9.5	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2103235
Project:	US Moorings Sediment Soil	**Date Analyzed:**	04/15/21 14:36

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	4/13/2021
File ID:	J:\GC34\DATA\041521-HB\04150000011.D\	**Calibration ID:**	KC2100209
Signal ID:	Rtx-CLPesticides2	**Analysis Lot:**	719860
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP (Silvex)	95.1	99.1	1.584E6	1.651E6	4.2	NA	±20	Average RF
2,4-D	94.0	96.8	3.903E5	4.019E5	3.0	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4-Dichlorophenylacetic Acid	100	90.9	4.241E5	3.853E5	-9.1	NA	±20	Average RF

Client: Anchor QEA, LLC **Service Request:**K2103235
Project: US Moorings Sediment Soil

Analysis Run Log
Chlorinated Herbicides by GC

Analysis Method: 8151A **Analysis Lot:**719207
Instrument ID:K-GC-34

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\GC34\DATA\040821-HB\04080000021.D\	Continuing Calibration Verification	KQ2105724-03	4/8/2021	23:33:11	
J:\GC34\DATA\040821-HB\04080000022.D\	Continuing Calibration Blank	KQ2105724-04	4/8/2021	23:57:04	
J:\GC34\DATA\040821-HB\04080000023.D\	Method Blank	KQ2105127-04	4/9/2021	00:20:53	
J:\GC34\DATA\040821-HB\04080000024.D\	Lab Control Sample	KQ2105127-03	4/9/2021	00:44:47	
J:\GC34\DATA\040821-HB\04080000025.D\	USMPDI-077SS-210330 MS	KQ2105127-01	4/9/2021	01:08:32	
J:\GC34\DATA\040821-HB\04080000026.D\	USMPDI-077SS-210330 DMS	KQ2105127-02	4/9/2021	01:32:14	
J:\GC34\DATA\040821-HB\04080000027.D\	USMPDI-073SS-210330	K2103235-003	4/9/2021	01:56:06	
J:\GC34\DATA\040821-HB\04080000028.D\	USMPDI-077SS-210330	K2103235-004	4/9/2021	02:19:51	
J:\GC34\DATA\040821-HB\04080000029.D\	ZZZZZZZ	ZZZZZZZ	4/9/2021	02:43:35	
J:\GC34\DATA\040821-HB\04080000030.D\	ZZZZZZZ	ZZZZZZZ	4/9/2021	03:07:28	
J:\GC34\DATA\040821-HB\04080000031.D\	ZZZZZZZ	ZZZZZZZ	4/9/2021	03:31:17	
J:\GC34\DATA\040821-HB\04080000032.D\	ZZZZZZZ	ZZZZZZZ	4/9/2021	03:55:04	
J:\GC34\DATA\040821-HB\04080000033.D\	ZZZZZZZ	ZZZZZZZ	4/9/2021	04:18:50	
J:\GC34\DATA\040821-HB\04080000034.D\	ZZZZZZZ	ZZZZZZZ	4/9/2021	04:42:47	
J:\GC34\DATA\040821-HB\04080000035.D\	Continuing Calibration Verification	KQ2105724-05	4/9/2021	05:06:38	
J:\GC34\DATA\040821-HB\04080000036.D\	Continuing Calibration Blank	KQ2105724-06	4/9/2021	05:30:28	

Client: Anchor QEA, LLC **Service Request:**K2103235
Project: US Moorings Sediment Soil

Analysis Run Log
Chlorinated Herbicides by GC

Analysis Method: 8151A **Analysis Lot:**719851
Instrument ID:K-GC-34

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\GC34\DATA\041421-HB\04140000003.D\	Continuing Calibration Verification	KQ2106070-01	4/14/2021	15:07:33	
J:\GC34\DATA\041421-HB\04140000004.D\	Continuing Calibration Blank	KQ2106070-02	4/14/2021	15:31:46	
J:\GC34\DATA\041421-HB\04140000005.D\	Method Blank	KQ2105891-03	4/14/2021	15:56:02	
J:\GC34\DATA\041421-HB\04140000006.D\	Lab Control Sample	KQ2105891-01	4/14/2021	16:20:14	
J:\GC34\DATA\041421-HB\04140000007.D\	Duplicate Lab Control Sample	KQ2105891-02	4/14/2021	16:44:26	
J:\GC34\DATA\041421-HB\04140000008.D\	SS-RB-2103300910	K2103235-001	4/14/2021	17:08:25	
J:\GC34\DATA\041421-HB\04140000009.D\	SS-FB-2103300905	K2103235-002	4/14/2021	17:32:23	
J:\GC34\DATA\041421-HB\04140000010.D\	ZZZZZZZ	ZZZZZZZ	4/14/2021	17:56:27	
J:\GC34\DATA\041421-HB\04140000011.D\	Continuing Calibration Verification	KQ2106070-03	4/14/2021	18:20:21	
J:\GC34\DATA\041421-HB\04140000012.D\	Continuing Calibration Blank	KQ2106070-04	4/14/2021	18:44:17	

Client: Anchor QEA, LLC **Service Request:**K2103235
Project: US Moorings Sediment Soil

Analysis Run Log
Chlorinated Herbicides by GC

Analysis Method: 8151A **Analysis Lot:**719860
Instrument ID:K-GC-34

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\GC34\DATA\041521-HB\04150000003.D\	Continuing Calibration Verification	KQ2106306-01	4/15/2021	11:23:52	
J:\GC34\DATA\041521-HB\04150000004.D\	Continuing Calibration Blank	KQ2106306-02	4/15/2021	11:48:10	
J:\GC34\DATA\041521-HB\04150000005.D\	Method Blank	KQ2105302-03	4/15/2021	12:12:14	
J:\GC34\DATA\041521-HB\04150000006.D\	Lab Control Sample	KQ2105302-01	4/15/2021	12:36:14	
J:\GC34\DATA\041521-HB\04150000007.D\	Duplicate Lab Control Sample	KQ2105302-02	4/15/2021	13:00:21	
J:\GC34\DATA\041521-HB\04150000008.D\	SS-RB-2103300910	K2103235-001	4/15/2021	13:24:22	
J:\GC34\DATA\041521-HB\04150000009.D\	SS-FB-2103300905	K2103235-002	4/15/2021	13:48:22	
J:\GC34\DATA\041521-HB\04150000010.D\	ZZZZZZZ	ZZZZZZZ	4/15/2021	14:12:26	
J:\GC34\DATA\041521-HB\04150000011.D\	Continuing Calibration Verification	KQ2106306-03	4/15/2021	14:36:29	
J:\GC34\DATA\041521-HB\04150000012.D\	Continuing Calibration Blank	KQ2106306-04	4/15/2021	15:00:33	

Prep Summary Report

Client: Anchor QEA, LLC **Service Request:**K2103235
Project: US Moorings Sediment Soil
Sample Matrix: Water

Chlorinated Herbicides by GC

Prep Method: Method **Extraction Lot:** 376888
Analytical Method: 8151A **Extraction Date:** 04/05/21 11:52

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
SS-RB-2103300910	K2103235-001	3/30/21	3/31/21	1000 mL	20 mL	
SS-FB-2103300905	K2103235-002	3/30/21	3/31/21	1000 mL	20 mL	
Lab Control Sample	KQ2105302-01LCS	NA	NA	1000 mL	20 mL	
Duplicate Lab Control Sample	KQ2105302-02DLCS	NA	NA	1000 mL	20 mL	
Method Blank	KQ2105302-03MB	NA	NA	1000 mL	20 mL	

Prep Summary Report

Client: Anchor QEA, LLC **Service Request:**K2103235
Project: US Moorings Sediment Soil
Sample Matrix: Water

Chlorinated Herbicides by GC

Prep Method: Method **Extraction Lot:** 377380
Analytical Method: 8151A **Extraction Date:** 04/13/21 11:24

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
SS-RB-2103300910	K2103235-001	3/30/21	3/31/21	1060.0000	20 mL	
SS-FB-2103300905	K2103235-002	3/30/21	3/31/21	1060.0000	20 mL	
Lab Control Sample	KQ2105891-01LCS	NA	NA	1000 mL	20 mL	
Duplicate Lab Control Sample	KQ2105891-02DLCS	NA	NA	1000 mL	20 mL	
Method Blank	KQ2105891-03MB	NA	NA	1060.0000	20 mL	

Prep Summary Report

Client: Anchor QEA, LLC **Service Request:**K2103235
Project: US Moorings Sediment Soil
Sample Matrix: Soil

Chlorinated Herbicides by GC

Prep Method: Method **Extraction Lot:** 376743
Analytical Method: 8151A **Extraction Date:** 04/02/21 12:30

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
USMPDI-073SS-210330	K2103235-003	3/30/21	3/31/21	30.2970 g	50 mL	87.0
USMPDI-077SS-210330	K2103235-004	3/30/21	3/31/21	30.4660 g	50 mL	78.7
Matrix Spike	KQ2105127-01MS	3/30/21	3/31/21	30.5730 g	50 mL	78.7
Duplicate Matrix Spike	KQ2105127-02DMS	3/30/21	3/31/21	30.8210 g	50 mL	78.7
Lab Control Sample	KQ2105127-03LCS	NA	NA	30.2310 g	50 mL	
Method Blank	KQ2105127-04MB	NA	NA	30.8210 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

Analytical Results Summary

Instrument Name: K-Balance-41 **Analyst:** BNETLING **Analysis Lot:** 718446 **Method/Testcode:** SM 2540 G/TS

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
K2103202-001	Solids, Total	N/A		Biosolids Solids	24.70 Percent	26.6022 g	24.7 Percent	1					4/2/21 11:45:00	N	I
K2103202-002	Solids, Total	N/A		Biosolids Solids	23.60 Percent	60.0251 g	23.6 Percent	1					4/2/21 11:45:00	N	I
K2103224-001	Solids, Total	N/A		Soil	73.40 Percent	28.7094 g	73.4 Percent	1					4/2/21 11:45:00	N	II
K2103235-003	Solids, Total	N/A		Soil	87.00 Percent	25.3627 g	87.0 Percent	1					4/2/21 11:45:00	N	IV
K2103235-004	Solids, Total	N/A		Soil	78.70 Percent	36.7174 g	78.7 Percent	1					4/2/21 11:45:00	Y	IV
KQ2105202-01	Solids, Total	DUP	K2103235-004	Soil	77.30 Percent	34.2646 g	77.3 Percent	1				2	4/2/21 11:45:00	N	IV
KQ2105202-02	Solids, Total	MB		Soil	0.00 Percent	51.7685 g	0.0 Percent	1					4/2/21 11:45:00	N	II

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

ALS Group USA, Corp.
dba ALS Environmental

Work Order #.: K2103224, 3235, 3202 Method: SM 2540 G TS

Run: 718446

Analysis: Total Solids / Volatile Solids Matrix: Soil/Solids

Sample Number		MB	3224-001	3235-003	3235-004	3235-004DUP	3202-001
Crucible Number		24	LINCOLN	9	25	JAHA	3U
SampleWeight		51.7685	28.7094	25.3627	36.7174	34.2646	26.6022
Tare Weight	Date	47.8510	52.2146	52.9508	51.3851	53.5783	57.2169
Tare + Dry Wt. (1)	4/5/2021	47.8504	73.2924	75.0147	80.2667	80.0707	63.7890
Tare + Dry Wt. (2)	4/5/2021	47.8508	73.2891	75.0126	80.2692	80.0710	63.7875
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		0.0%	73.4%	87.0%	78.7%	77.3%	24.7%
Volatile Solids		##########	347.8%	340.0%	277.9%	302.2%	970.8%

Sample Number		3202-002					
Crucible Number		21					
Sample Weight		25.9527					
Tare Weight	Date	53.8895					
Tare + Dry Wt. (1)	4/5/2021	60.0250					
Tare + Dry Wt. (2)	4/5/2021	60.0251					
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		23.6%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Volatile Solids		978.3%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

% Total Solids = (Tare + Dry Wt. - Tare / Sample Weight)

% Volatile Solids = (Dry Wt. - Ash Wt. / Dry Sample Weight)

Comments:

105 oven: K - OVEN 07

550 oven: K -Furnace-01 K-Balance- 41

Analyzed By:	BN	Date:	4/2/2021
Reviewed By:	JC	Date:	4/5/21

ALS Group USA, Corp.
dba ALS Environmental

Work Order #: K2103224, 3235, 3202

Method: SM 2540 G TS

Run: 718446

Analysis: Total Solids / Volatile Solids

Matrix: Soil/Solids

Oven Temp and Times				
Oven Temp	Time In	Date In	Time Out	Date Out
105	11:45	4/2/2021	8:45	4/5/2021
105	11:05	4/5/2021	12:05	4/5/2021

Analyzed By:	BN	Date Analyzed:	4/2/2021
Reviewed By:		Date Reviewed:	4/5/21

ALS Group USA, Corp.
dba ALS Environmental

Work Order #.: K2103224, 3235, 3202 Method: SM 2540 G TS

Run: 718446

Analysis: Total Solids / Volatile Solids Matrix: Soil/Solids

CCV Verification SN:1000122198, 6040						
	200.0000g	≤(+/- 0.5%)		10.0000g	≤(+/- 0.5%)	Date
CCV1	199.9972	100.0%	CCV1	9.9987	100.0%	4/2/2021
CCV2	199.9972	100.0%	CCV2	9.9983	100.0%	4/2/2021
CCV3	199.9968	100.0%	CCV3	9.9982	100.0%	4/5/2021
CCV4	199.9964	100.0%	CCV4	9.9981	100.0%	4/5/2021
CCV5	199.9969	100.0%	CCV5	9.9983	100.0%	4/5/2021
CCV6	199.9969	100.0%	CCV6	9.9983	100.0%	4/5/2021
CCV7		0.0%	CCV7		0.0%	
CCV8		0.0%	CCV8		0.0%	
CCV9		0.0%	CCV9		0.0%	
CCV10		0.0%	CCV10		0.0%	
CCV11		0.0%	CCV11		0.0%	
CCV12		0.0%	CCV12		0.0%	
CCV13		0.0%	CCV13		0.0%	
CCV14		0.0%	CCV14		0.0%	
CCV15		0.0%	CCV15		0.0%	
CCV16		0.0%	CCV16		0.0%	
CCV17		0.0%	CCV17		0.0%	
CCV18		0.0%	CCV18		0.0%	
CCV19		0.0%	CCV19		0.0%	
CCV20		0.0%	CCV20		0.0%	

Analyzed By:	BN	Date Analyzed:	4/2/2021
Reviewed By:		Date Reviewed:	4/5/21

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#: 376743
Team: Semivoa GC/GTRIGG
Number of Copies to make: 2

Prep WorkFlow: OrgHerbS(14)
Prep Method: Method

Status: Prepped
Prep Date/Time: ~~4/1/21 11:55~~ 4.2.21 1230

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	K2103235-003	USMPDI-073SS-210330	.01	8151A/HERB		Soil	30.2970g	50.00mL	
2	K2103235-004	USMPDI-077SS-210330	.01	8151A/HERB		Soil	30.4660g	50.00mL	
3	KQ2105127-01	K2103235-004 MS	.01	8151A/HERB		Solid	30.5730g	50.00mL	
4	KQ2105127-02	K2103235-004 DMS	.01	8151A/HERB		Solid	30.8210g	50.00mL	
5	K2103239-001	COMP1S	.01	8151A/HERB		Soil	30.7100g	50.00mL	
6	K2103239-002	COMP1D	.01	8151A/HERB		Soil	30.2950g	50.00mL	
7	K2103239-003	COMP2S	.01	8151A/HERB		Soil	30.4300g	50.00mL	
8	K2103239-004	COMP2D	.01	8151A/HERB		Soil	30.7220g	50.00mL	
9	K2103239-005	COMP3S	.01	8151A/HERB		Soil	30.0110g	50.00mL	
10	K2103239-006	COMP3D	.01	8151A/HERB		Soil	30.3990g	50.00mL	
11	KQ2105127-03	LCS		8151A/HERB		Solid	30.2310g	50.00mL	
12	KQ2105127-04	MB		8151A/HERB		Solid	30.8210g	50.00mL	

Spiking Solutions

Name: 8151A 5ppm Herbicide surrogate Inventory ID 214295 Logbook Ref: Penta02-16J Expires On: 05/20/2021

K2103235-003	1,000.00µL	K2103235-004	1,000.00µL	K2103239-001	1,000.00µL	K2103239-002	1,000.00µL	K2103239-003	1,000.00µL	K2103239-004	1,000.00µL
K2103239-005	1,000.00µL	K2103239-006	1,000.00µL	KQ2105127-01	1,000.00µL	KQ2105127-02	1,000.00µL	KQ2105127-03	1,000.00µL	KQ2105127-04	1,000.00µL

Name: 8151A 5-500ppm Herbicides matrix spike Inventory ID 216338 Logbook Ref: Penta02-26F Expires On: 09/30/2021

KQ2105127-01	1,000.00µL	KQ2105127-02	1,000.00µL	KQ2105127-03	1,000.00µL

Preparation Steps

Step:	Weigh	Step:	Extraction	Step:	Derivitization	Step:	Final Volume
Started:	~~4/1/21 11:55~~ 4.5.21 1000	Started:	~~4/5/21 15:30~~ 4.2.21 1230	Started:	4/6/21 14:45	Started:	4/6/21 15:32
Finished:	~~4/1/21 15:30~~ 4.5.21 1030	Finished:	4/5/21 16:20	Finished:	4/6/21 14:45	Finished:	4/6/21 15:32
By:	GTRIGG	By:	GTRIGG	By:	GTRIGG	By:	GTRIGG
Comments		Comments	04.08.21	Comments		Comments	

Comments: Slytherin A1-B2

Reviewed By: _____ Date: 04.08.2021

Preparation Information Benchsheet

Prep Run#: 376743
Team: Semivoa GC/GTRIGG

Prep WorkFlow: OrgHerbS(14)
Prep Method: Method

Status: Prepped
Prep Date/Time: 4/1/21 11:55

Chain of Custody

Relinquished By: [signature] Date: 4/6/21

Received By: [signature] Date: 4.7.21

Extracts Examined (Yes) No

Preparation Information Benchsheet

Prep Run#: 376743
Team: Semivoa GC/GTRIGG
Number of Copies to make: 2

Prep WorkFlow: OrgHerbS(14)
Prep Method:

Status: Draft
Prep Date/Time: 4/1/21 11:55 AM

#	Lab Code	Client ID	B#	√	Method /Test	Matrix	Amt. Ext.	pH	Int. Vol ml	Final Vol ml	Surr Amt µl	Spike Amt µl
1	**K2103235-003**	USMPDI-073SS-210330	.01		8151A / HERB	Soil	30.297	✓	10	50	100	—
2	**K2103235-004**	USMPDI-077SS-210330			8151A / HERB	Soil	30.466	✓	↓	↓	↓	—
3	**KQ2105127-01**	K2103235-004 MS			8151A / HERB	Solid	30.573	✓	↓	↓	↓	1000
4	**KQ2105127-02**	K2103235-004 DMS			8151A / HERB	Solid	30.821	✓	↓	↓	↓	1000
5	**K2103239-001**	COMP1S	.01		8151A / HERB	Soil	30.710	✓	↓	↓	↓	—
6	**K2103239-002**	COMP1D	.01		8151A / HERB	Soil	30.295	✓	↓	↓	↓	—
7	**K2103239-003**	COMP2S	.01		8151A / HERB	Soil	30.430	✓	↓	↓	↓	—
8	**K2103239-004**	COMP2D	.01		8151A / HERB	Soil	30.722	✓	↓	↓	↓	—
9	**K2103239-005**	COMP3S	.01		8151A / HERB	Soil	30.011	✓	↓	↓	↓	—
10	**K2103239-006**	COMP3D	.01		8151A / HERB	Soil	30.399	✓	↓	↓	↓	—
11	**KQ2105127-03**	LCS			8151A / HERB	Solid	30.231	✓	↓	↓	↓	1000
12	**KQ2105127-04**	MB			8151A / HERB	Solid	30.435	✓	↓	↓	↓	—

Comments:

Surrogate ID: Penta 02 16J 5ppm Acetone 1000 µl x8 5/24/21

Spike ID: Penta 02-26F 5-500ppm Acetone 1000 µl xP 9/30/21

Witnessed By: BGrees

Analyst: [signature]

Assisted By:

Additional Prep Information for EPA Method 8151A
Herbicides in Soil

Service Request # K2103235, K2103239 **Work Group #** KQ2105127

Acidified Sulfate Lot # DZ03-81Q Matrix Sand Lot # 012418

Ethyl Ether Lot # EA001-US Hydrochloric Acid Lot # 58242

Wrist Action Shaker Start (time/date/initial): 1230 4/2/21 CA

Wrist Action Shaker Stop (time/date/initial): 1300 4/2/21 CA

N-Evap (time/date/initial): 1115 4/5/21 NA N-Evap Thermometer ID: X-SVM-004

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

Saponification Start (time/date/initial): 1230 4/5/21 CA 37% KOH Lot # DZ03-80R

Saponification Stop (time/date/initial): 1330 4/5/21 CA

Extraction Start (time/date/initial): 1530 4/5/21 CA Sulfuric Acid Lot # D803-97J

Extraction Stop (time/date/initial): 1620 4/5/21 CA

Derivatization Start (time/date/initial): 1410 4/6/21 CA Diazomethane Lot # DZ03-44C

Derivatization Stop (time/date/initial): 1445 4/6/21 CA

Pipette (5 mL) Lot # 08420647

Solvent Exchange to Iso-Octane (time/date/initial): 1450 4/6/21 CA

Iso-Octane Lot # DZ155-VS N-Evap Thermometer ID: X-SM-006

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

Pipette (1 mL) Lot # HH13G

Vial: Red Vial Storage: Slytherin A1-B2

Archive Storage:

Additional Comments:

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

Preparation Information Benchsheet

Prep Run#: 377380
Team: Semivoa GC/ACOLLINS
Number of Copies to make: 2

Prep WorkFlow: OrgHerbAq(7)
Prep Method: Method

Status: Prepped
Prep Date/Time: 4/13/21 11:24

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	K2103235-001RE	SS-RB-2103300910	.01	8151A/HERB		Water	1060.0000mL	20.00mL	
2	K2103235-002RE	SS-FB-2103300905	.02	8151A/HERB		Water	1060.0000mL	20.00mL	
3	K2103256-001RE	Cameo	.02	8151A/HERB		Water	1040.0000mL	20.00mL	
4	KQ2105891-01	LCS		8151A/HERB		Liquid	1000mL	20.00mL	
5	KQ2105891-02	DLCS		8151A/HERB		Liquid	1000mL	20.00mL	
6	KQ2105891-03	MB		8151A/HERB		Liquid	1060.0000mL	20.00mL	

Spiking Solutions

Name: 8151A 5ppm Herbicide surrogate Inventory ID 216337 Logbook Ref: Penta02-26I Expires On: 09/30/2021

K2103235-001 500.00µL K2103235-002 500.00µL K2103256-001 500.00µL KQ2105891-01 500.00µL KQ2105891-02 500.00µL KQ2105891-03 500.00µL

Name: 8151A 5-500ppm Herbicides matrix spike Inventory ID 216338 Logbook Ref: Penta02-26F Expires On: 09/30/2021

KQ2105891-01 500.00µL KQ2105891-02 500.00µL

Preparation Steps

Step: Extraction
Started: 4/13/21 11:24
Finished: 4/13/21 12:10
By: ACOLLINS
Comments

Step: Final Volume
Started: 4/14/21 09:00
Finished: 4/14/21 13:10
By: TNORRIS
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: [signature] Date: 4/14/21

Received By: [signature] Date: 4.14.21

Extracts Examined
(Yes) No

Preparation Information Benchsheet

Prep Run#: 377380
Team: Semivoa GC/ACOLLINS
Number of Copies to make: 2

Prep WorkFlow: OrgHerbAq(7)
Prep Method: Method

Status: Draft
Prep Date/Time: 4/13/21 08:47 AM

#	Lab Code	Client ID	B#	√	Method /Test	Matrix	Amt. Ext. mL	pH	Int. Vol	Final Vol	Surr Amt µl	Spike Amt µl
1	**K2103235-001RE**	SS-RB-2103300910	.01	✓	8151A / HERB	Water	1060	>12/<2		20	500	
2	**K2103235-002RE**	SS-FB-2103300905	.02	✓	8151A / HERB	Water	1060	"		20	"	
3	**K2103256-001RE**	Cameo	.02	✓	8151A / HERB	Water	1040	"		20	"	
4	**KQ2105891-01**	LCS		+	8151A / HERB	Liquid	1000	"		20	"	500
5	**KQ2105891-02**	DLCS		+	8151A / HERB	Liquid	1000	"		20	"	500
6	**KQ2105891-03**	MB		+	8151A / HERB	Liquid	1060	"		20	"	

Comments:

Surrogate ID: Penta02-26I 5ppm exp:9.30.21 500µl

Spike ID: Penta02-26F 5/500ppm exp:9.30.21, 500µl

Witnessed By: AC

Analyst:

Assisted By: AC

ALS Environmental
Appendix from SOC-8151 Extracting Herbicides in Water
EPA Method 8151A

Service Request # K2103235, 3256 **Work Group #** KQ2105891

NaCl Lot # 2060756795 10N NaOH Lot # 0000241426

Hydrolysis Start (time/date/initial): 10:09 4·13·21 AC

Hydrolysis Stop (time/date/initial): 11:10 4·13·21 AC

1:1 Sulfuric Acid Lot # 0081145 0042212 Ethyl Ether Lot # EA001-US

Extraction Start (time/date/initial): 11:24 4·13·21 AC

Extraction Stop (time/date/initial): 12:10 4·13·21 AC

Acidified Sulfate Lot # D203-87R

S-Evap (time/date/initial): 09:00 4/14/21 AA S-Evap Thermometer ID: X-SVM-5

Temp as measured: 70 °C Correction factor: 0 °C Adjusted temp: 70 °C

Pipette (5 mL) Lot # 08420647

Derivatization Start (time/date/initial): 11:33 4/14/21 AA

Derivatization Stop (time/date/initial): 1203 4/14/21 AA

Diazomethane Lot # D203-44D

Solvent Exchange to Iso-Octane (time/date/initial): 1205 4/14/21 Iso-Octane Lot # D755-US

N-Evap Thermometer ID: X-JVM-010

Temp as measured: 70 °C Correction factor: 0 °C Adjusted temp: 70 °C

Pipette (2 mL) Lot # 21042020

Filter (0.45 µm) (time/date/initial): — Filter Lot # —

Vial: Red Vial Storage: Counter

Bench Sheet Review Check List
☐ Hold times met; if no, reason:
☐ Prep date, time, method, department, product code correct
☐ Spike information and Q.C. correct (insufficient volume or mass recorded if no Q.C.)
☐ Weights/Volumes and units correct on raw and final bench sheets
☐ Sample IDs have been checked - bottle numbers appended if required
☐ Names present for: started by, completed by, relinquished by, and witnessed by
☐ Extract storage recorded
☐ Additional prep sheet completely filled out (NA or line out blanks)
☐ All clean-ups have been noted on additional prep sheet

completed 1310 4/14/21 archive: deadpool

Preparation Information Benchsheet

Prep Run#: 376888
Team: Semivoa GC/BGREER
Number of Copies to make: 2

Prep WorkFlow: OrgHerbAq(7)
Prep Method: Method

Status: Prepped
Prep Date/Time: 4/5/21 11:52

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	K2103235-001	SS-RB-2103300910	.01	8151A/HERB		Water	1000mL	20.00mL	
2	K2103235-002	SS-FB-2103300905	.01	8151A/HERB		Water	1000mL	20.00mL	
3	K2103256-001	Cameo	.01	8151A/HERB		Water	1000mL	20.00mL	
4	KQ2105302-01	LCS		8151A/HERB		Liquid	1000mL	20.00mL	
5	KQ2105302-02	DLCS		8151A/HERB		Liquid	1000mL	20.00mL	
6	KQ2105302-03	MB		8151A/HERB		Liquid	1000mL	20.00mL	

Spiking Solutions

Name: 8151A 5ppm Herbicide surrogate Inventory ID 216336 Logbook Ref: Penta02-26H Expires On: 09/30/2021

K2103235-001 500.00µL K2103235-002 500.00µL K2103256-001 500.00µL KQ2105302-01 500.00µL KQ2105302-02 500.00µL KQ2105302-03 500.00µL

Name: 8151A 5-500ppm Herbicides matrix spike Inventory ID 216338 Logbook Ref: Penta02-26F Expires On: 09/30/2021

KQ2105302-01 500.00µL KQ2105302-02 500.00µL

Preparation Steps

Step: Extraction
Started: 4/5/21 11:52
Finished: 4/5/21 12:42
By: ACOLLINS
Comments

Step: Final Volume
Started: 4/7/21 07:20
Finished: 4/7/21 10:51
By: TNORRIS
Comments

Comments:

Reviewed By: [signature] Date: 4-13-21

Chain of Custody

Relinquished By: [signature] Date: 4/7/21

Received By: [signature] Date: 4.8.21

Extracts Examined
(Yes) No

Preparation Information Benchsheet

Prep Run#: 376888
Team: Semivoa GC/BGREER
Number of Copies to make: 2

Prep WorkFlow: OrgHerbAq(7)
Prep Method:

Status: Draft
Prep Date/Time: 4/5/21 09:22 AM

#	Lab Code	Client ID	B#	√	Method /Test	Matrix	Amt. Ext. mL	pH	Int. Vol	Final Vol mL	Surr Amt µl	Spike Amt µl
1	**K2103235-001**	SS-RB-2103300910	1	✓	8151A / HERB	Water	1000	1/2	—	20	500	—
2	**K2103235-002**	SS-FB-2103300905	1	✓	8151A / HERB	Water	1000	"	—	20	"	—
3	**K2103256-001**	Cameo	1	✓	8151A / HERB	Water	1000	"	—	20	"	—
4	**KQ2105302-01**	LCS	—	—	8151A / HERB	Liquid	1000	"	—	20	"	500
5	**KQ2105302-02**	DLCS	—	—	8151A / HERB	Liquid	1000	"	—	20	"	500
6	**KQ2105302-03**	MB	—	—	8151A / HERB	Liquid	1000	"	—	20	"	—

Comments:

Surrogate ID: Pentad2-26F 5ppm xp: 9.30.21 500µl

Spike ID: Pentad2-26F 5/500 ppm xp: 9.30.21, 500 µl

Witnessed By: 4-5-21

Analyst:

Assisted By: AC

ALS Environmental
Extraction Analyst Notes

Service Request: _____ **Prep Group:** _____

Topic	Notes	Initials/Date
No Anomalies: ☐		
Sample Anomalies: ☐		
Organics Present (sticks, leafs, bugs): ☐		
Fuel Odors: ☐		
Sulfur Odors, Precipitate: ☐		
General Notes:	Insufficient sample amount for MS/DMS, used LCS/DLCS instead	BG 4/5/21

ALS Environmental
Appendix from SOC-8151 Extracting Herbicides in Water
EPA Method 8151A

Service Request # K2103235,3256 **Work Group #** KQ2105302

NaCl Lot # G23478 10N NaOH Lot # 0000241426

Hydrolysis Start (time/date/initial): 10:35 4·5·21 AC

Hydrolysis Stop (time/date/initial): 10·37 4·5·21 AC

1:1 Sulfuric Acid Lot # 0042212 Ethyl Ether Lot # EA001-VS

Extraction Start (time/date/initial): 11:52 4·5·21 AC

Extraction Stop (time/date/initial): 12:42 4·5·21 AC

Acidified Sulfate Lot # DZ03-870

S-Evap (time/date/initial): 0720 4/7/21 DL S-Evap Thermometer ID: X-SVM-005

Temp as measured: 65 °C Correction factor: 0 °C Adjusted temp: 65 °C

Pipette (5 mL) Lot # 0842067

Derivatization Start (time/date/initial): 0912 4/7/21 DL

Derivatization Stop (time/date/initial): 0942 4/7/21 DL

Diazomethane Lot # DZ03-44C

Solvent Exchange to Iso-Octane (time/date/initial): 0942 4/7/21 DL Iso-Octane Lot # DZ155-US

N-Evap Thermometer ID: X-SVM-010

Temp as measured: 20 °C Correction factor: 0 °C Adjusted temp: 20 °C

Pipette (2 mL) Lot # 21042020

Filter (0.45 µm) (time/date/initial): — Filter Lot # —

Vial: red Vial Storage: Synthesis C1-6

Bench Sheet Review Check List
☑ Hold times met; if no, reason:
☑ Prep date, time, method, department, product code correct
☑ Spike information and Q.C. correct (insufficient volume or mass recorded if no Q.C.)
☑ Weights/Volumes and units correct on raw and final bench sheets
☑ Sample IDs have been checked - bottle numbers appended if required
☑ Names present for: started by, completed by, relinquished by, and witnessed by
☑ Extract storage recorded
☑ Additional prep sheet completely filled out (NA or line out blanks)
☑ All clean-ups have been noted on additional prep sheet

completed 1st 4/7/21 DL archive: deadpool

1st JTC 04/19/21
2nd 4w 04/20/21

Validation Report

Data File: J:\GC34\DATA\041521-HB\04150000008.D\
Lab ID: K2103235-001
RunType: N/A
Matrix: Water

Date Acquired: 4/15/21 13:24:22
Batch ID: 719860
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	
Duplicate 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	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Method Blank Surrogates	2,4-Dichlorophenylacetic Acid	9	17	113	narr
Surrogates	2,4-Dichlorophenylacetic Acid	13	17	113	narr

Primary Review: _____

Secondary Review: _____

1st JTC 04/19/21
2nd 4w 04/20/21

Quantitation Report

Data File:	J:\GC34\DATA\041521-HB\04150000008.D\	**Instrument:**	K-GC-34
Acqu Date:	4/15/21 13:24:22	**Vial:**	4
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2103235-001	**Raw Units:**	ppb

Bottle ID:	K2103235-001.01	**Tier:**	IV	**Matrix:**	Water
Prod Code:	HERB	**Collect Date:**	3/30/21	**Receive Date:**	3/31/21

Analysis Lot:	719860	**Prep Lot:**	376888	**Report Group:**	K2103235
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	4/5/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100209
		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	10.04	9.68	18911577	6745078	23.437	15.904	19	13*	13	*	17 - 113	Y

Target Compounds

Final Conc.Units: ug/L

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)	WRT 12.17 -0.02	11.77 +0.02	281736123	70427530	91.860	44.457	1.8Ui	0.89Ui	0.90 Ui	Y
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	0.036 U	Y

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	20.00 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 (QT Reviewed)

1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041521-HB\04150000008.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15-Apr-2021, 13:24:22 Operator: JTC
Sample : K2103235-001 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 15 16:34:28 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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...	10.040	9.677	18911577	6745078	23.437	15.904	#
		Target Compounds							
1)	m	Dalapon	5.630f	5.240	67110	161880	0.070	0.319	#
3)	m	Dicamba	10.310f	9.863	85998	3761094	0.033	2.771	#
4)	m	MCPP	10.433	0.000	1247994	0	N.D.	N.D.	
5)	m	MCPA	10.607	0.000	6236053	0	550.450	N.D.	#
6)	m	Dichloroprop	0.000	10.587	0	1319445	N.D.	N.D.	
7)	m	2,4-D	0.000	0.000	0	0	N.D.	N.D.	
8)	m	2,4,5-TP ...	12.170	11.770	281.7E6	70427530	91.860	44.457	#
9)	m	2,4,5-T	12.520f	12.130	49880712	21064097	19.936	16.676	
10)	m	2,4-DB	13.020f	12.707f	4695286	372358	13.967	2.168	#
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.

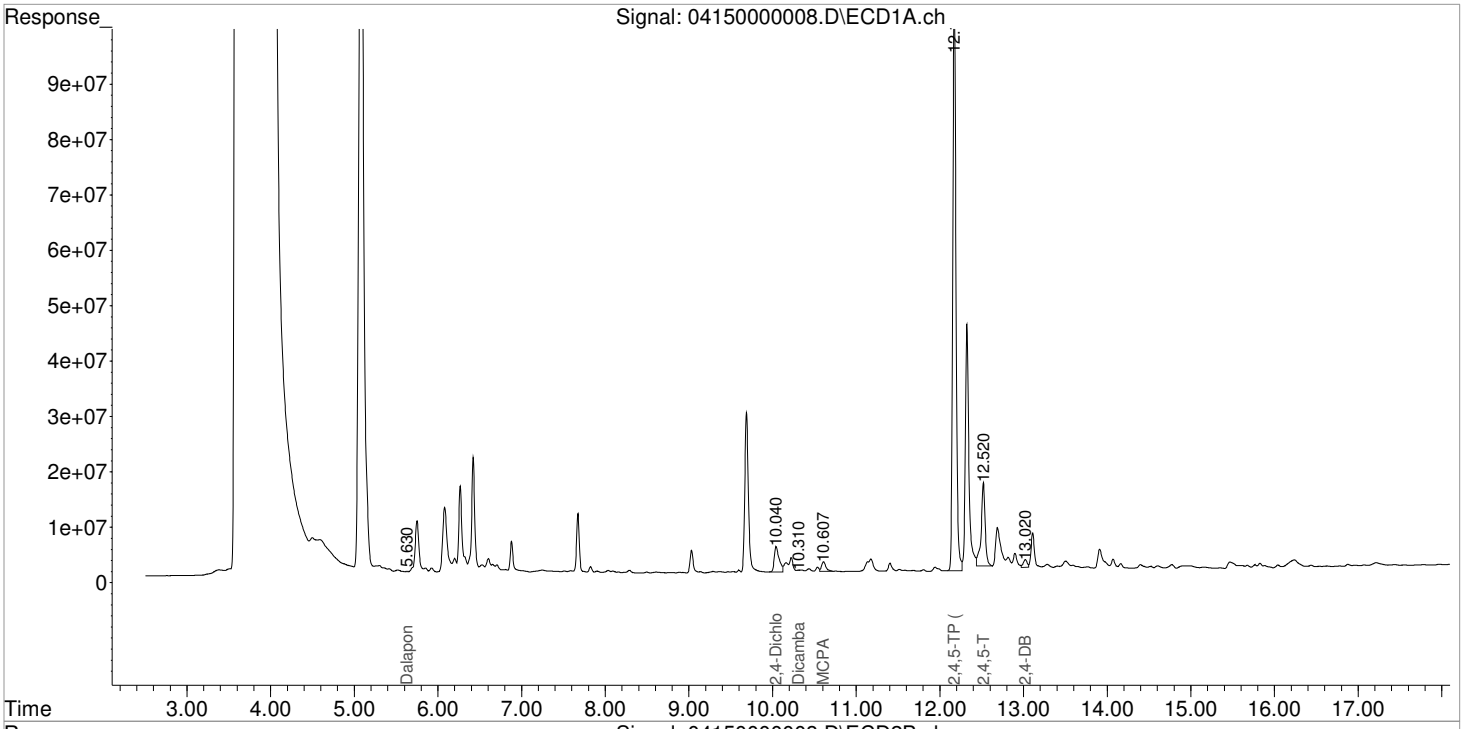
Quantitation Report (QT Reviewed)

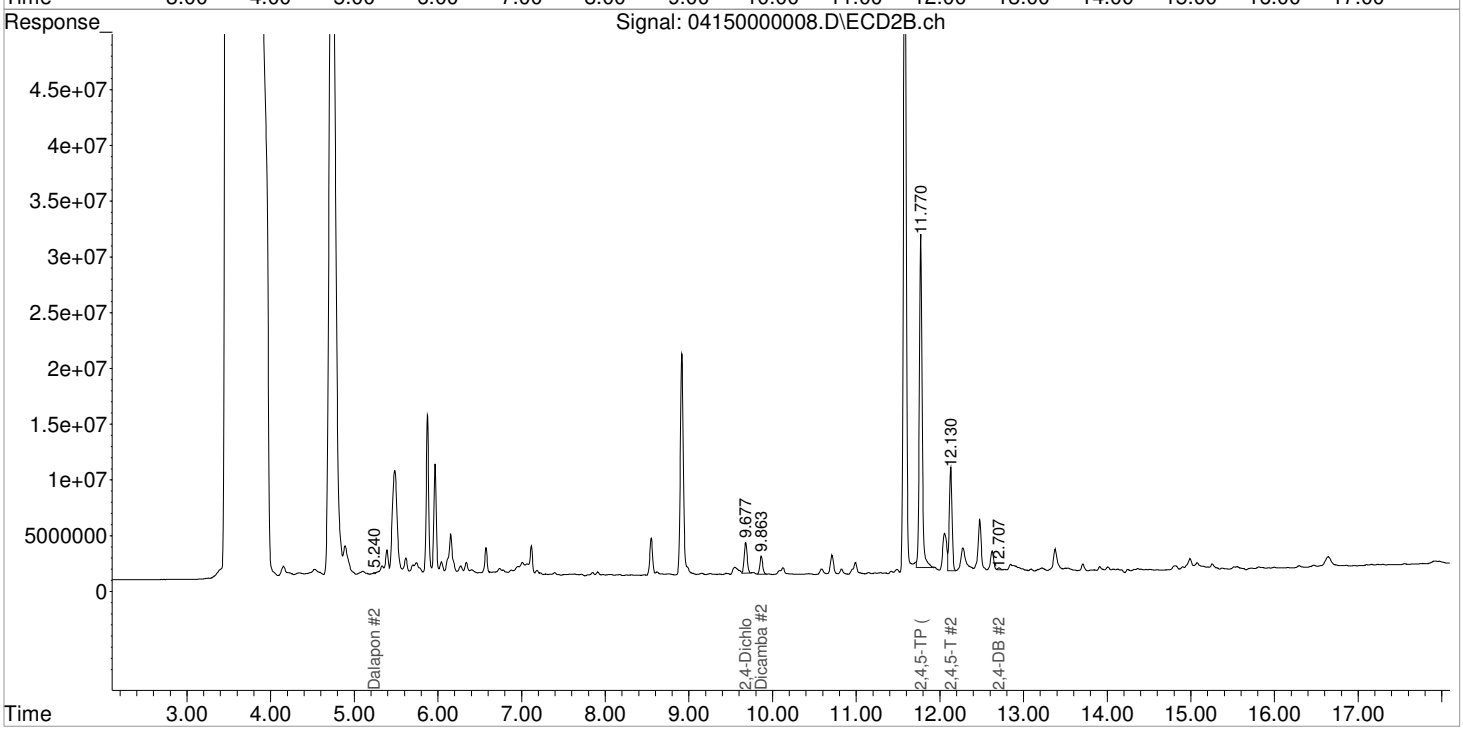
1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041521-HB\04150000008.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15-Apr-2021, 13:24:22 Operator: JTC
Sample : K2103235-001 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 15 16:34:28 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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





1st JTC 04/19/21
2nd 4w 04/20/21

Validation Report

Data File: J:\GC34\DATA\041421-HB\04140000008.D\
Lab ID: K2103235-001.R01
RunType: N/A
Matrix: Water

Date Acquired: 4/14/21 17:08:25
Batch ID: 719851
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	
Duplicate 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	

Sample Exceptions

Exception Categories	Result	Corrective Action
Preparation Hold Time	Prep Date/Time: 04/13/2021 1124 Hold Date/Time: 04/06/2021 2359	narr

Primary Review: _____

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Secondary Review: _____

1st JTC 04/19/21
2nd 4w 04/20/21

Quantitation Report

Data File:	J:\GC34\DATA\041421-HB\04140000008.D\	**Instrument:**	K-GC-34
Acqu Date:	4/14/21 17:08:25	**Vial:**	5
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2103235-001.R01	**Raw Units:**	ppb

Bottle ID:	K2103235-001.01	**Tier:**	IV	**Matrix:**	Water
Prod Code:	HERB	**Collect Date:**	3/30/21	**Receive Date:**	3/31/21

Analysis Lot:	719851	**Prep Lot:**	377380	**Report Group:**	K2103235
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	4/13/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100209
		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	10.03 -0.01	9.68	43352952	22534814	53.728	53.133	43	43	43	17 - 113	N

Target Compounds

Final Conc.Units: ug/L

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)	12.19	11.77 +0.02	188758	1646626	0.062	1.039	0.0012Ui	0.020Ui	0.045 Ui	N
2,4-D	0.00	10.89	0	3190610	0.000	8.174	0U	0.15J	0.036 U	N

Prep Amount:	1060.0000 mL	**Dilution:**	1
Prep Final Amount:	20.00 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 (QT Reviewed)

1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041421-HB\04140000008.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14-Apr-2021, 17:08:25 Operator: JTC
Sample : K2103235-001RE Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 15 08:14:06 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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...	10.033	9.677	43352952	22534814	53.728	53.133	
		Target Compounds							
1)	m	Dalapon	5.570	0.000	28093084	0	29.293	N.D.	#
3)	m	Dicamba	0.000	9.860f	0	730554	N.D.	0.538	#
4)	m	MCPP	10.453	0.000	342699	0	N.D.	N.D.	
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D.	
6)	m	Dichloroprop	0.000	10.590	0	1460492	N.D.	N.D.	
7)	m	2,4-D	0.000	10.887	0	3190610	N.D.	8.174	#
8)	m	2,4,5-TP ...	12.187	11.770	188758	1646626	0.062	1.039	#
9)	m	2,4,5-T	12.470	0.000	2896071	0	1.157	N.D.	#
10)	m	2,4-DB	13.020f	12.710f	2558922	610232	7.612	3.554	#
11)	m	Dinoseb	0.000	12.987f	0	1247232	N.D.	1.164	#

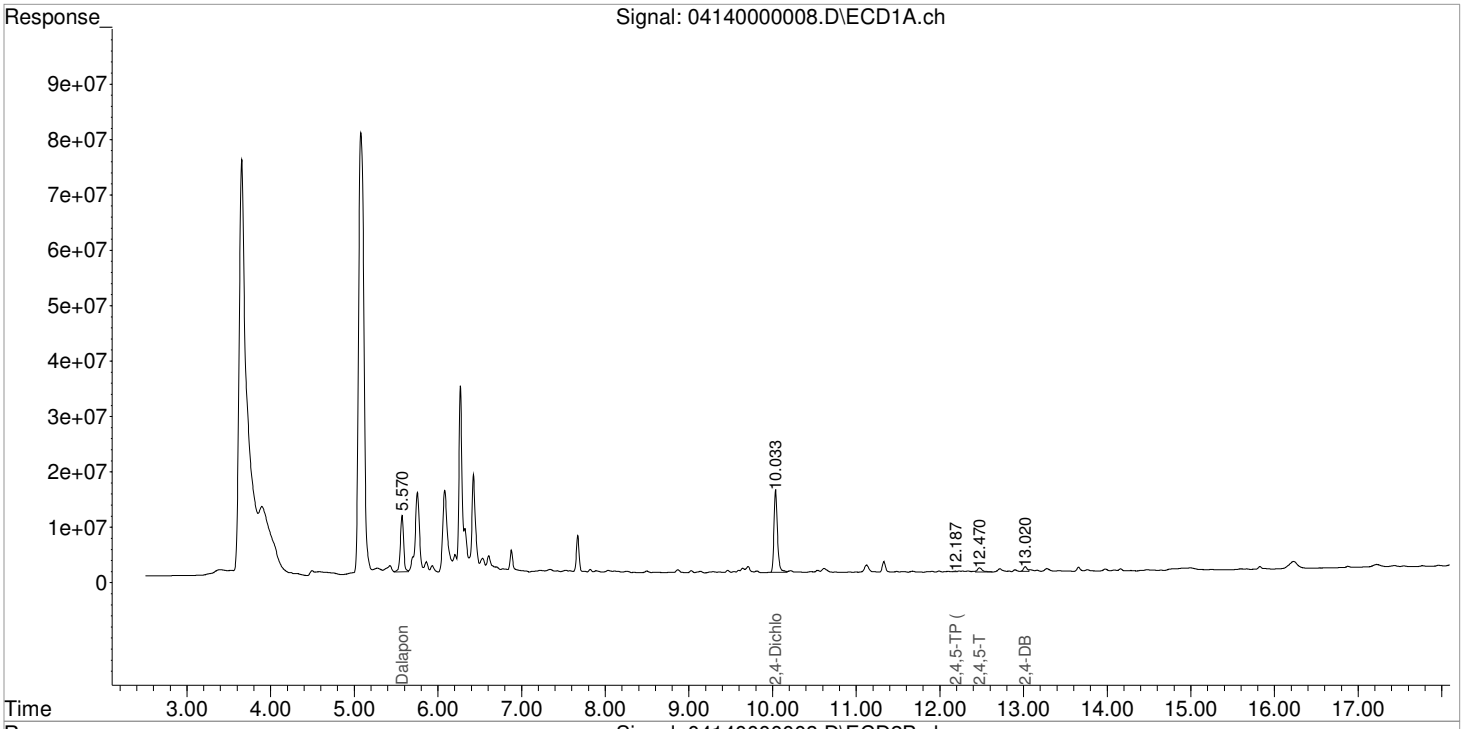
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

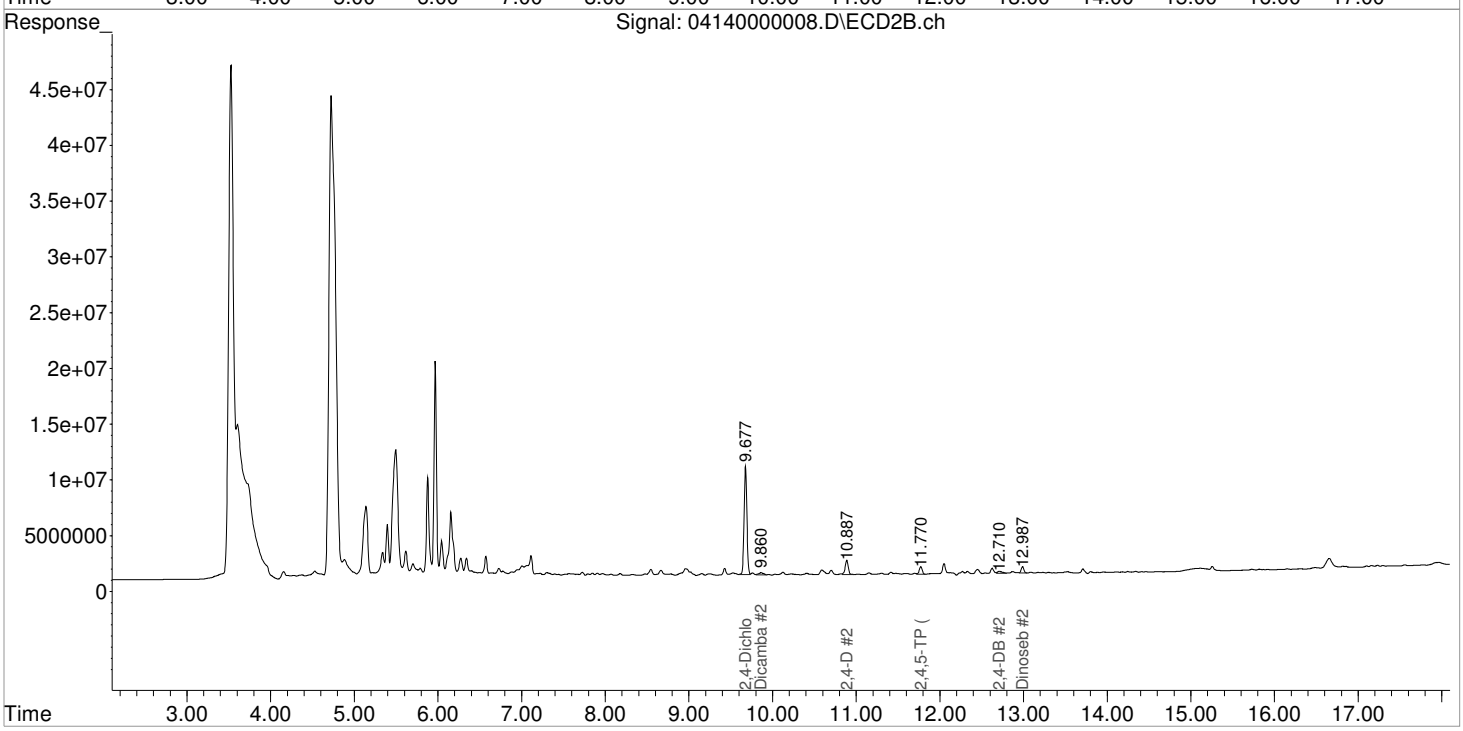
1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041421-HB\04140000008.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14-Apr-2021, 17:08:25 Operator: JTC
Sample : K2103235-001RE Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 15 08:14:06 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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





1st JTC 04/19/21
2nd 4w 04/20/21

Validation Report

Data File: J:\GC34\DATA\041521-HB\04150000009.D\
Lab ID: K2103235-002
RunType: N/A
Matrix: Water

Date Acquired: 4/15/21 13:48:22
Batch ID: 719860
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	
Duplicate 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	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Method Blank Surrogates	2,4-Dichlorophenylacetic Acid	9	17	113	narr
Surrogates	2,4-Dichlorophenylacetic Acid	15	17	113	narr

Primary Review: _____

Secondary Review: _____

1st JTC 04/19/21
2nd 4w 04/20/21

Quantitation Report

Data File:	J:\GC34\DATA\041521-HB\04150000009.D\	**Instrument:**	K-GC-34
Acqu Date:	4/15/21 13:48:22	**Vial:**	3
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2103235-002	**Raw Units:**	ppb

Bottle ID:	K2103235-002.02	**Tier:**	IV	**Matrix:**	Water
Prod Code:	HERB	**Collect Date:**	3/30/21	**Receive Date:**	3/31/21

Analysis Lot:	719860	**Prep Lot:**	376888	**Report Group:**	K2103235
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	4/5/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100209
		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	10.04	9.68	21702977	8084776	26.897	19.063	22	15*	15	*	17 - 113	Y

Target Compounds

Final Conc.Units: ug/L

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)	WRT 12.17 -0.02	11.77 +0.02	202796052	66267133	66.121	41.831	1.3Ui	0.84Ui	0.85 Uii	Y
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	0.036 U	Y

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	20.00 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 (QT Reviewed)

1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041521-HB\04150000009.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15-Apr-2021, 13:48:22 Operator: JTC
Sample : K2103235-002 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 15 16:34:30 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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...	10.040	9.680	21702977	8084776	26.897	19.063	#
		Target Compounds							
1)	m	Dalapon	5.523f	5.247	1492625	115829	1.556	0.228	#
3)	m	Dicamba	10.313f	9.863	63812	2931000	0.025	2.159	#
4)	m	MCPP	10.433	0.000	2209680	0	N.D.	N.D.	
5)	m	MCPA	10.610	0.000	4621135	0	252.099	N.D.	#
6)	m	Dichloroprop	0.000	10.587	0	1110412	N.D.	N.D.	
7)	m	2,4-D	0.000	0.000	0	0	N.D.	N.D.	
8)	m	2,4,5-TP ...	12.170	11.770	202.8E6	66267133	66.121	41.831	#
9)	m	2,4,5-T	12.520f	12.130	47719107	18597815	19.072	14.724	
10)	m	2,4-DB	13.020f	12.703f	6259053	341466	18.619	1.988	#
11)	m	Dinoseb	0.000	0.000	0	0	N.D.	N.D.	

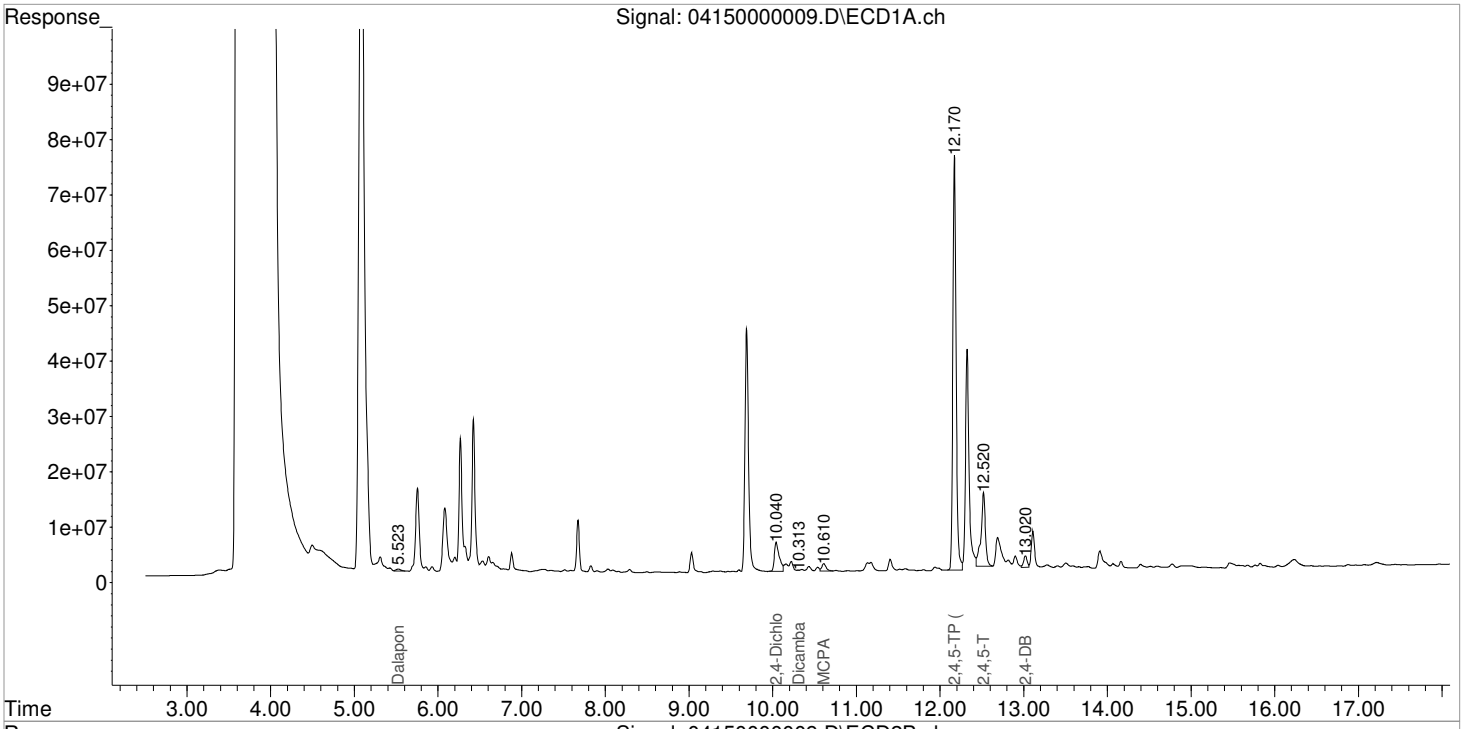
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

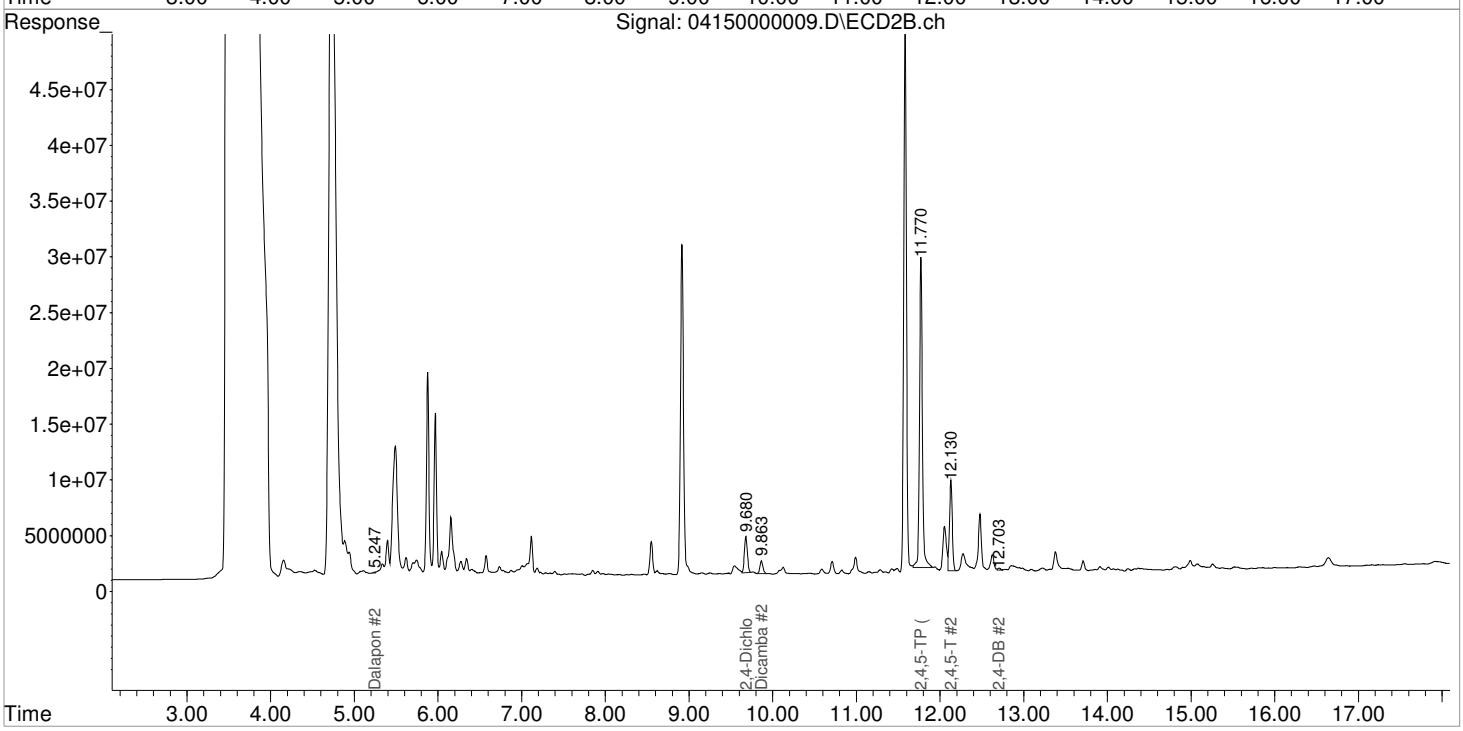
1st JTC 04/19/21
2nd 4W 04/20/21

Data File : J:\GC34\DATA\041521-HB\04150000009.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15-Apr-2021, 13:48:22 Operator: JTC
Sample : K2103235-002 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 15 16:34:30 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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





1st JTC 04/19/21
2nd 4w 04/20/21

Validation Report

Data File: J:\GC34\DATA\041421-HB\04140000009.D\
Lab ID: K2103235-002.R01
RunType: N/A
Matrix: Water

Date Acquired: 4/14/21 17:32:23
Batch ID: 719851
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	
Duplicate 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	

Sample Exceptions

Exception Categories	Result	Corrective Action
Preparation Hold Time	Prep Date/Time: 04/13/2021 1124 Hold Date/Time: 04/06/2021 2359	narr

Primary Review: _____

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Secondary Review: _____

1st JTC 04/19/21
2nd 4w 04/20/21

Quantitation Report

Data File:	J:\GC34\DATA\041421-HB\04140000009.D\	**Instrument:**	K-GC-34
Acqu Date:	4/14/21 17:32:23	**Vial:**	6
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2103235-002.R01	**Raw Units:**	ppb

Bottle ID:	K2103235-002.02	**Tier:**	IV	**Matrix:**	Water
Prod Code:	HERB	**Collect Date:**	3/30/21	**Receive Date:**	3/31/21

Analysis Lot:	719851	**Prep Lot:**	377380	**Report Group:**	K2103235
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	4/13/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100209
		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	10.03 -0.01	9.68	37094287	19360363	45.971	45.649	37	37	37	17 - 113	N

Target Compounds

Final Conc.Units: ug/L

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	11.77 +0.02	0	3057500	0.000	1.930	0Ui	0.036Ui	0.045 Ui	N
2,4-D	0.00	10.89	0	2549308	0.000	6.531	0U	0.12J	0.036 U	N

Prep Amount:	1060.0000 mL	**Dilution:**	1
Prep Final Amount:	20.00 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 (QT Reviewed)

1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041421-HB\04140000009.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14-Apr-2021, 17:32:23 Operator: JTC
Sample : K2103235-002RE Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 15 08:02:03 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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...	10.033	9.677	37094287	19360363	45.971	45.649	
		Target Compounds							
1)	m	Dalapon	5.570	5.243	5537138	169841	5.774	0.335	#
3)	m	Dicamba	0.000	9.860f	0	1101057	N.D.	0.811	#
4)	m	MCPP	0.000	9.953	0	116524	N.D.	N.D.	
5)	m	MCPA	10.617	0.000	2049645	0	115451.545	N.D.	#
6)	m	Dichloroprop	11.003	10.587	53733	1209470	0.074	N.D.	#
7)	m	2,4-D	0.000	10.887	0	2549308	N.D.	6.531	#
8)	m	2,4,5-TP ...	0.000	11.770	0	3057500	N.D.	1.930	#
9)	m	2,4,5-T	12.470	0.000	3170207	0	1.267	N.D.	#
10)	m	2,4-DB	13.017f	12.703f	4969519	154695	14.783	0.901	#
11)	m	Dinoseb	0.000	12.987f	0	1250603	N.D.	1.167	#

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

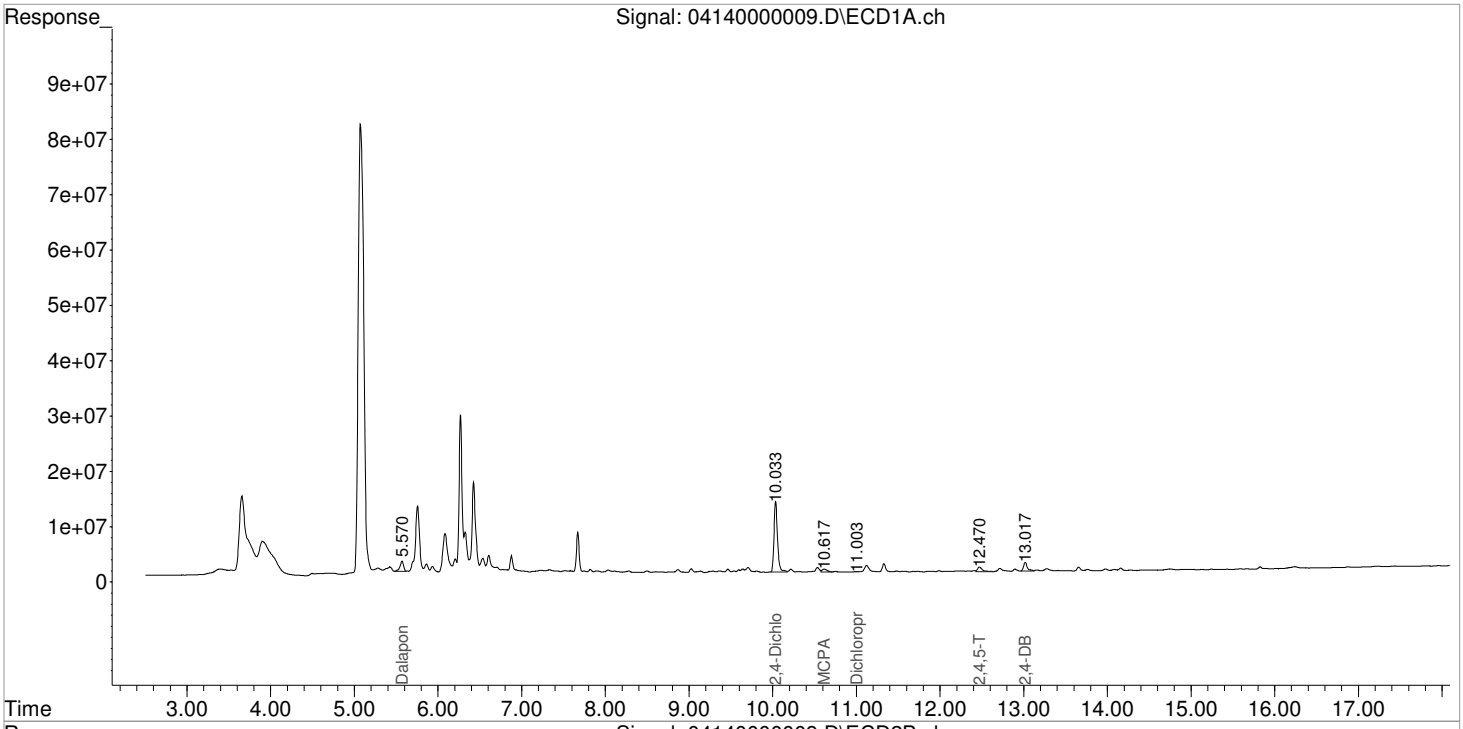
Quantitation Report (QT Reviewed)

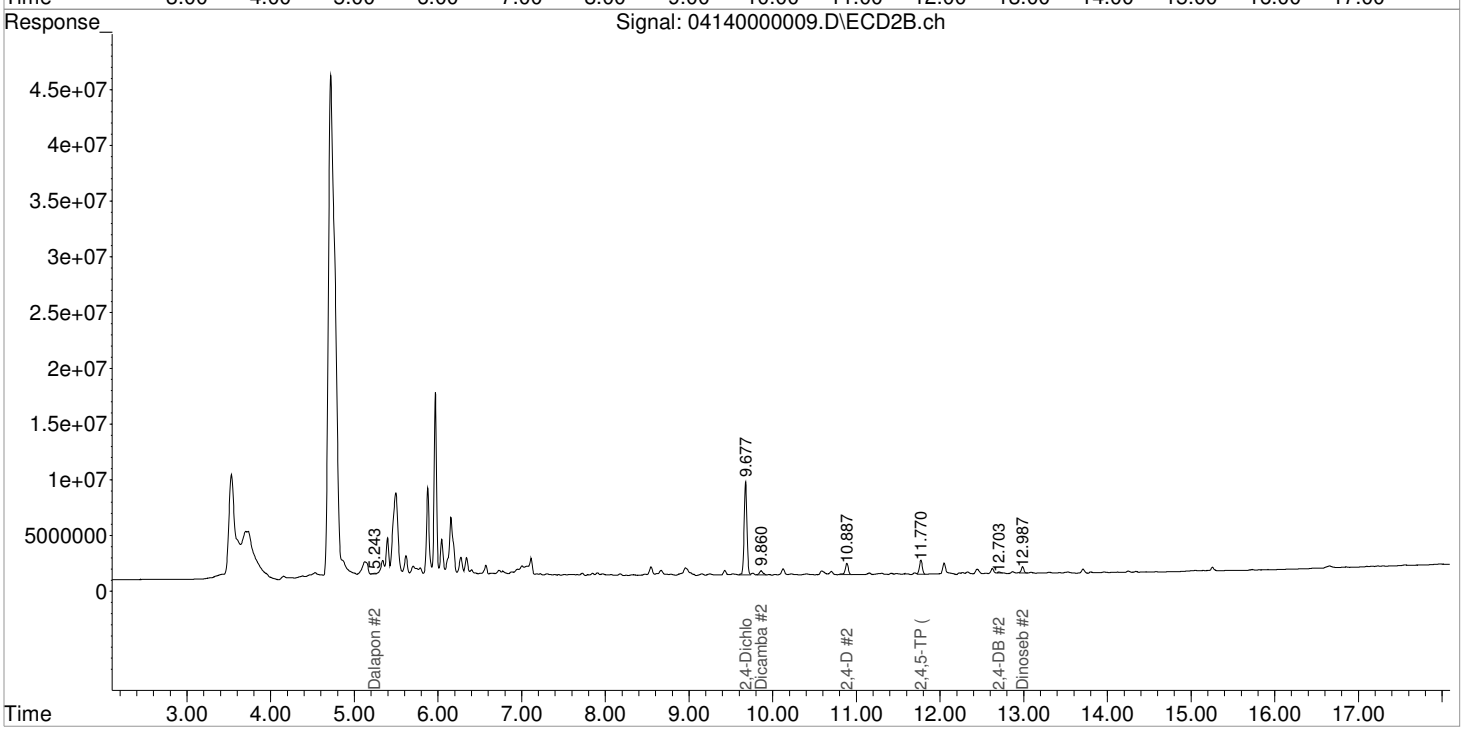
1st JTC 04/19/21
2nd 4W 04/20/21

Data File : J:\GC34\DATA\041421-HB\04140000009.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14-Apr-2021, 17:32:23 Operator: JTC
Sample : K2103235-002RE Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 15 08:02:03 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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





1st JTC 04/16/21
2nd 4w 04/16/21

Validation Report

Data File: J:\GC34\DATA\040821-HB\04080000027.D\
Lab ID: K2103235-003
RunType: N/A
Matrix: Soil

Date Acquired: 4/9/21 01:56:06
Batch ID: 719207
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: _____

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Secondary Review: _____

1st JTC 04/16/21
2nd 4w 04/16/21

Quantitation Report

Data File:	J:\GC34\DATA\040821-HB\04080000027.D\	**Instrument:**	K-GC-34
Acqu Date:	4/9/21 01:56:06	**Vial:**	5
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2103235-003	**Raw Units:**	ppb

Bottle ID:	K2103235-003.01	**Tier:**	IV	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	3/30/21	**Receive Date:**	3/31/21

Analysis Lot:	719207	**Prep Lot:**	376743	**Report Group:**	K2103235
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	4/2/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100194
		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	11.01	9.48	91035062	33036760	88.789	81.297	89	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)	13.32 -0.02	0.00	4094694	0	0.848	0.000	1.6U	0U	2.8 U	Y
2,4-D	12.26 -0.01	10.94	884468	1351474	0.753	1.722	1.4U	3.3U	8.8 U	Y

Prep Amount:	30.2970 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	87.00

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 (QT Reviewed)

1st JTC 04/16/21
2nd 4w 04/16/21

Data File : J:\GC34\DATA\040821-HB\04080000027.D Vial: 21
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-Apr-2021, 01:56:06 Operator: JTC
Sample : K2103235-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 09 09:08:44 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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...	11.010	9.477	91035062	33036760	88.789	81.297	
		Target Compounds							
1)	m	Dalapon	0.000	0.000	0	0	N.D.	N.D.	
3)	m	Dicamba	11.107f	9.630f	10015941	2498252	3.314	1.864	#
4)	m	MCPP	11.250f	10.030	5326937	424478	536.325	110983.914	#
5)	m	MCPA	11.557	10.330	22193638	716483	3051.238	178.761	#
6)	m	Dichloroprop	12.030f	0.000	14817393	0	15.496	N.D.	#
7)	m	2,4-D	12.257	10.943	884468	1351474	0.753	1.722	#
8)	m	2,4,5-TP ...	13.320	0.000	4094694	0	0.848	N.D.	#
9)	m	2,4,5-T	0.000	12.040	0	2518542	N.D.	2.027	#
10)	m	2,4-DB	14.293	12.557	13649628	3751788	19.934	21.763	
11)	m	Dinoseb	14.500	12.383f	20659935	3192292	6.237	3.182	#

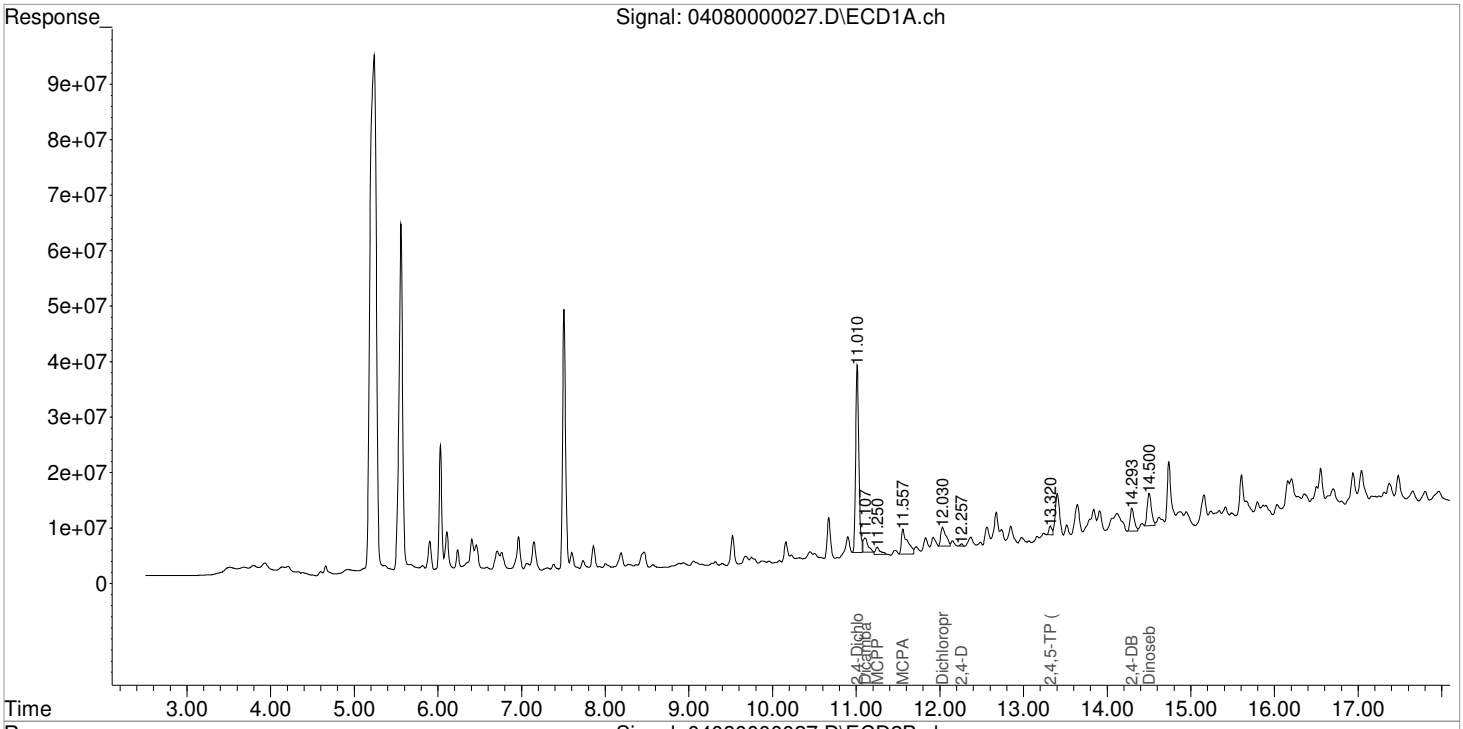
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

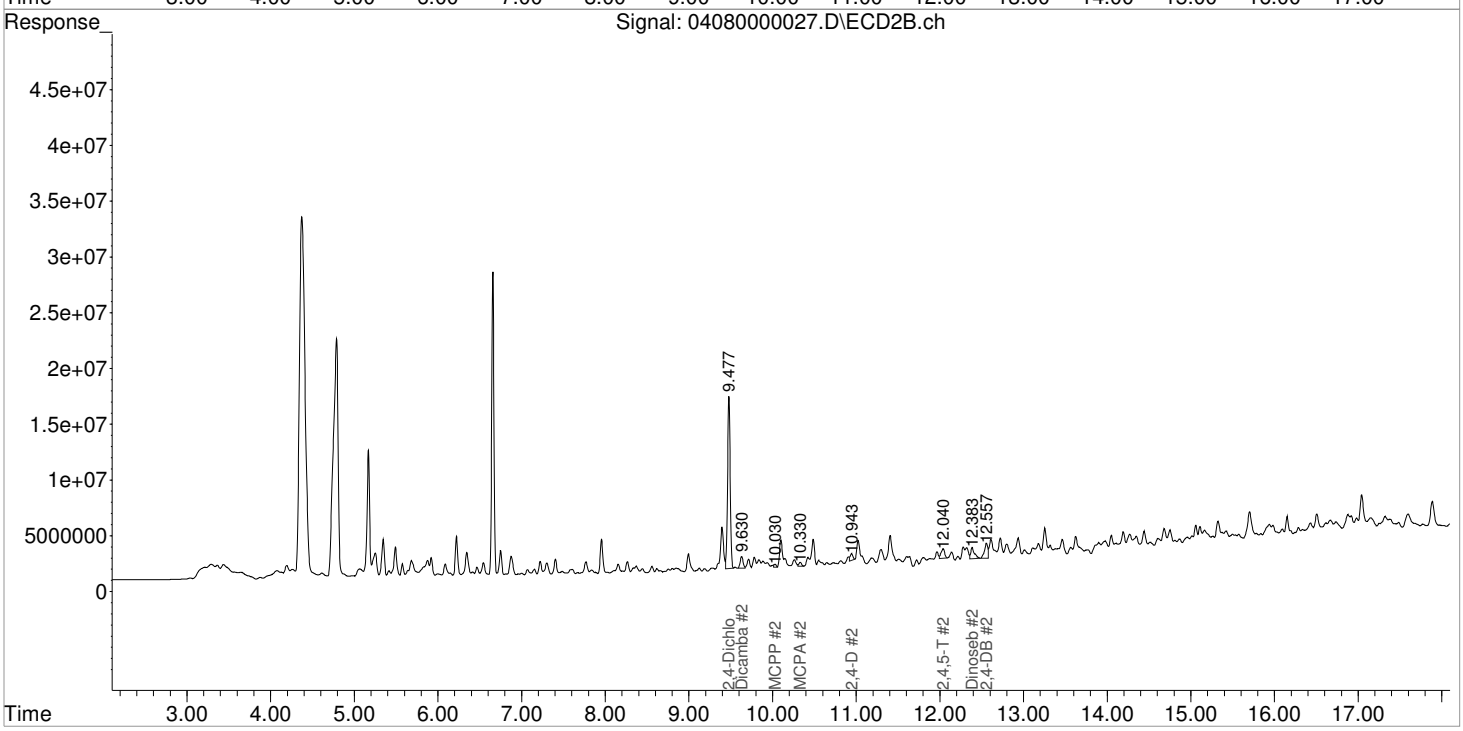
1st JTC 04/16/21
2nd 4w 04/16/21

Data File : J:\GC34\DATA\040821-HB\04080000027.D Vial: 21
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-Apr-2021, 01:56:06 Operator: JTC
Sample : K2103235-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 09 09:08:44 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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





1st JTC 04/16/21
2nd 4w 04/16/21

Validation Report

Data File: J:\GC34\DATA\040821-HB\04080000028.D\
Lab ID: K2103235-004
RunType: N/A
Matrix: Soil

Date Acquired: 4/9/21 02:19:51
Batch ID: 719207
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: _____

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Secondary Review: _____

1st JTC 04/16/21
2nd 4w 04/16/21

Quantitation Report

Data File:	J:\GC34\DATA\040821-HB\04080000028.D\	**Instrument:**	K-GC-34
Acqu Date:	4/9/21 02:19:51	**Vial:**	6
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2103235-004	**Raw Units:**	ppb

Bottle ID:	K2103235-004.01	**Tier:**	IV	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	3/30/21	**Receive Date:**	3/31/21

Analysis Lot:	719207	**Prep Lot:**	376743	**Report Group:**	K2103235
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	4/2/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100194
		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	11.01	9.48	84601333	30491334	82.514	75.034	83	75	75	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 -0.02	0.00	6512455	0	1.348	0.000	2.8U	0U	3.1 U	Y
2,4-D	12.26 -0.01	10.92 -0.02	5363193	1105336	4.567	1.408	9.5U	2.9U	9.7 U	Y

Prep Amount:	30.4660 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	78.70

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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Quantitation Report (QT Reviewed)

1st JTC 04/16/21
2nd 4w 04/16/21

Data File : J:\GC34\DATA\040821-HB\04080000028.D Vial: 22
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-Apr-2021, 02:19:51 Operator: JTC
Sample : K2103235-004 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 09 09:08:47 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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...	11.010	9.477	84601333	30491334	82.514	75.034	
		Target Compounds							
1)	m	Dalapon	5.690	4.793f	680569	454.5E6	0.670	903.722	#
3)	m	Dicamba	11.180f	9.630f	15292402	3839923	5.059	2.865	#
4)	m	MCPP	11.253f	10.027	11268886	1207978	2211.752	110688.661	#
5)	m	MCPA	11.560	10.330	9725646	1598416	1099.202	398.801	#
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D.	
7)	m	2,4-D	12.257	10.920	5363193	1105336	4.567	1.408	#
8)	m	2,4,5-TP ...	13.323	0.000	6512455	0	1.348	N.D.	#
9)	m	2,4,5-T	0.000	12.033	0	3553761	N.D.	2.861	#
10)	m	2,4-DB	14.290f	12.557	5150890	4093238	7.522	23.744	#
11)	m	Dinoseb	14.497	12.383f	23408957	2580356	7.067	2.572	#

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

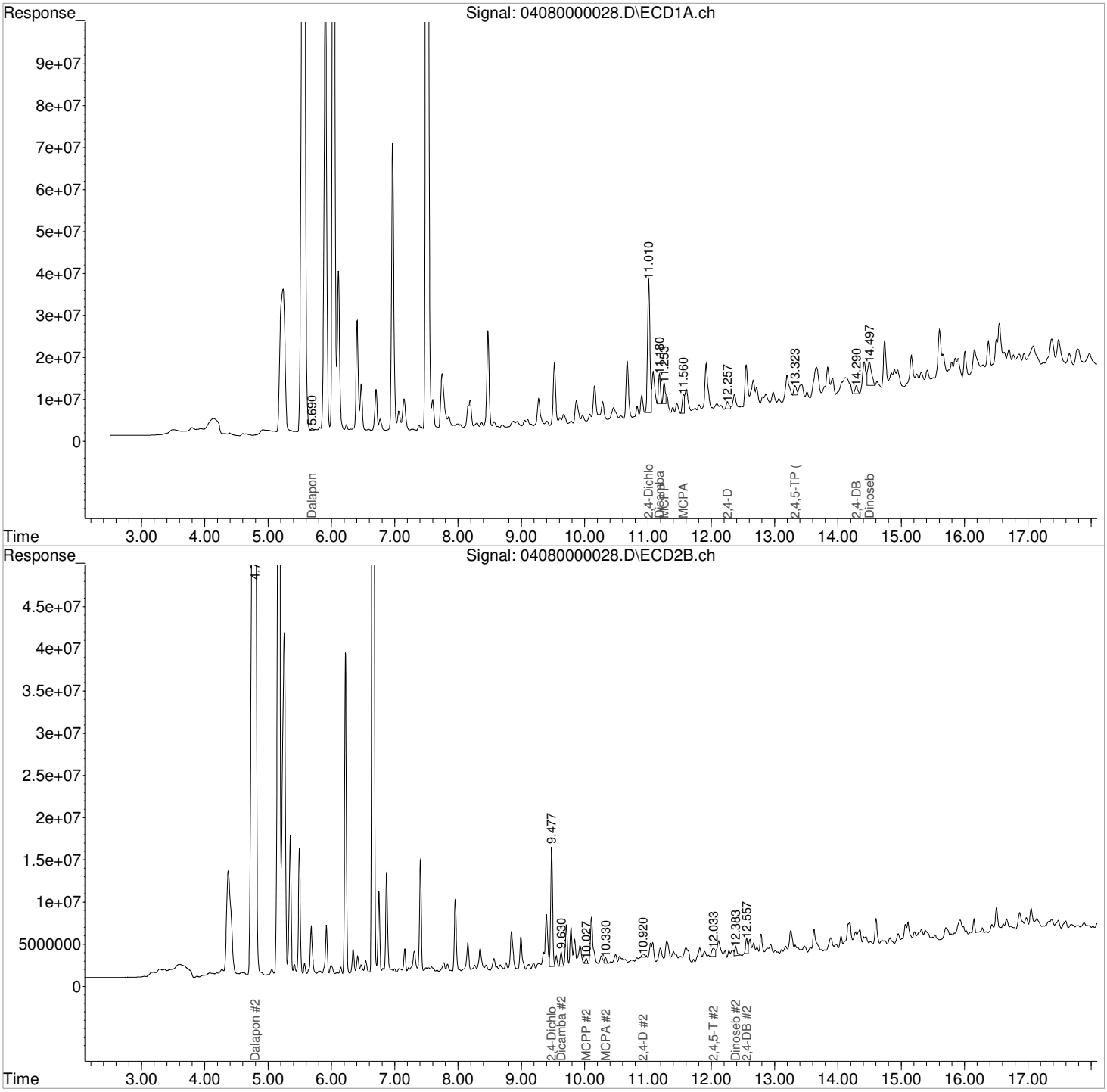
Quantitation Report (QT Reviewed)

1st JTC 04/16/21
2nd 4w 04/16/21

Data File : J:\GC34\DATA\040821-HB\04080000028.D Vial: 22
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-Apr-2021, 02:19:51 Operator: JTC
Sample : K2103235-004 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 09 09:08:47 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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



1st JTC 04/16/21
2nd 4w 04/16/21

Validation Report

Data File: J:\GC34\DATA\040821-HB\04080000023.D\
Lab ID: KQ2105127-04
RunType: MB
Matrix: Soil

Date Acquired: 4/9/21 00:20:53
Batch ID: 719207
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: _____

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Secondary Review: _____

1st JTC 04/16/21
2nd 4w 04/16/21

Quantitation Report

Data File:	J:\GC34\DATA\040821-HB\04080000023.D\	**Instrument:**	K-GC-34
Acqu Date:	4/9/21 00:20:53	**Vial:**	16
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2105127-04	**Raw Units:**	ppb

Bottle ID:		**Tier:**	II	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	3/26/21	**Receive Date:**	3/31/21

Analysis Lot:	719207	**Prep Lot:**	376743	**Report Group:**	KQ2105127
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	4/2/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100194
		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	11.01	9.48	74923980	25493471	73.076	62.735	73	63	63	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	256795	0.000	0.207	0U	0.34U	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 -0.01	0	94563	0.000	0.120	0U	0.19U	7.7 U	Y
2,4-DB	0.00	12.61 +0.06	0	955694	0.000	5.544	0U	9.0J	5.4 U	Y
Dalapon	5.69	4.84	968168	25854	0.953	0.051	1.5U	0.083U	5.5 U	Y
Dicamba	0.00	0.00	0	0	0.000	0.000	0U	0U	4.3 U	Y
Dichlorprop	0.00	10.73 -0.02	0	144779	0.000	0.368	0U	0.60U	3.4 U	Y
Dinoseb	14.48 +0.01	12.38 -0.05	1073742	469891	0.324	0.468	0.53U	0.76U	2.7 U	Y
MCPA	11.56 +0.01	10.30	5170869	388824	386.088	97.011	630J	160U	320 U	Y
MCPP	0.00	0.00	0	0	0.000	0.000	0U	0U	460 U	Y

Prep Amount:	30.8210 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 (QT Reviewed)

1st JTC 04/16/21
2nd 4w 04/16/21

Data File : J:\GC34\DATA\040821-HB\04080000023.D Vial: 17
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-Apr-2021, 00:20:53 Operator: JTC
Sample : KQ2105127-04 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 09 13:26:41 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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...	11.010	9.480	74923980	25493471	73.076	62.735	
		Target Compounds							
1)	m	Dalapon	5.690	4.843	968168	25854	0.953	0.051	#
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	11.557	10.297	5170869	388824	386.088m	97.011m	#
6)	m	Dichloroprop	0.000	10.730	0	144779	N.D.	0.368	#
7)	m	2,4-D	0.000	10.927	0	94563	N.D.	0.120	#
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	256795	N.D.	0.207	#
10)	m	2,4-DB	0.000	12.610f	0	955694	N.D.	5.544	#
11)	m	Dinoseb	14.483	12.383f	1073742	469891	0.324	0.468	#

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

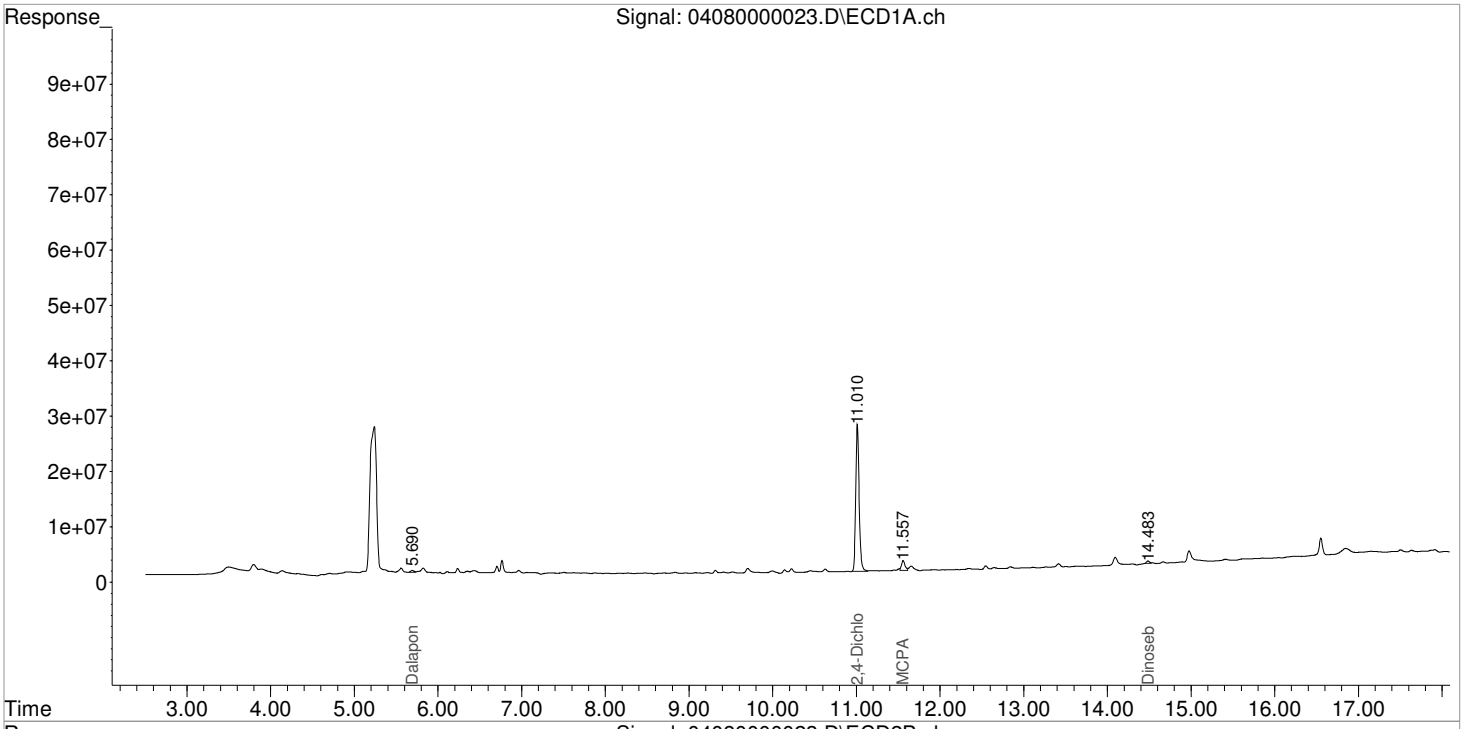
Quantitation Report (QT Reviewed)

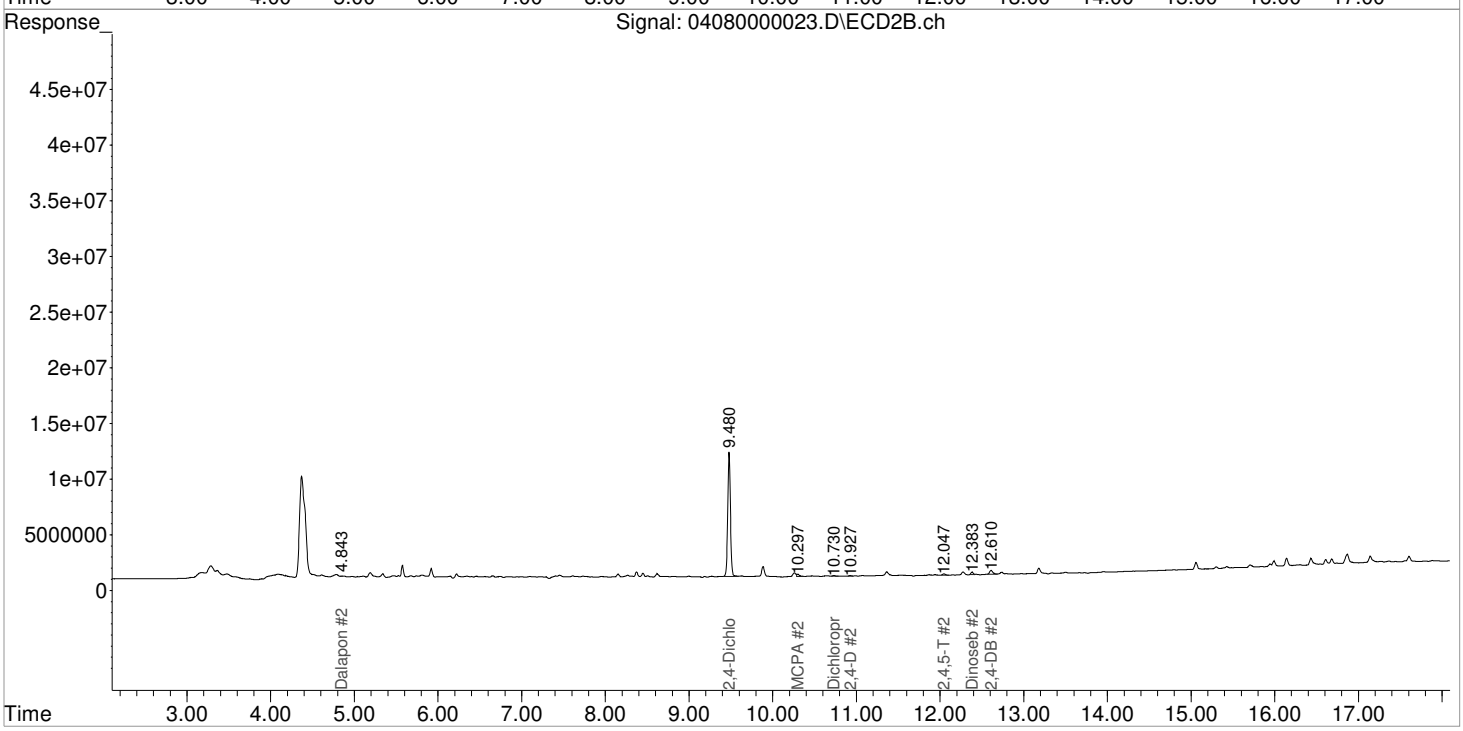
1st JTC 04/16/21
2nd 4w 04/16/21

Data File : J:\GC34\DATA\040821-HB\04080000023.D Vial: 17
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-Apr-2021, 00:20:53 Operator: JTC
Sample : KQ2105127-04 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 09 13:26:41 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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





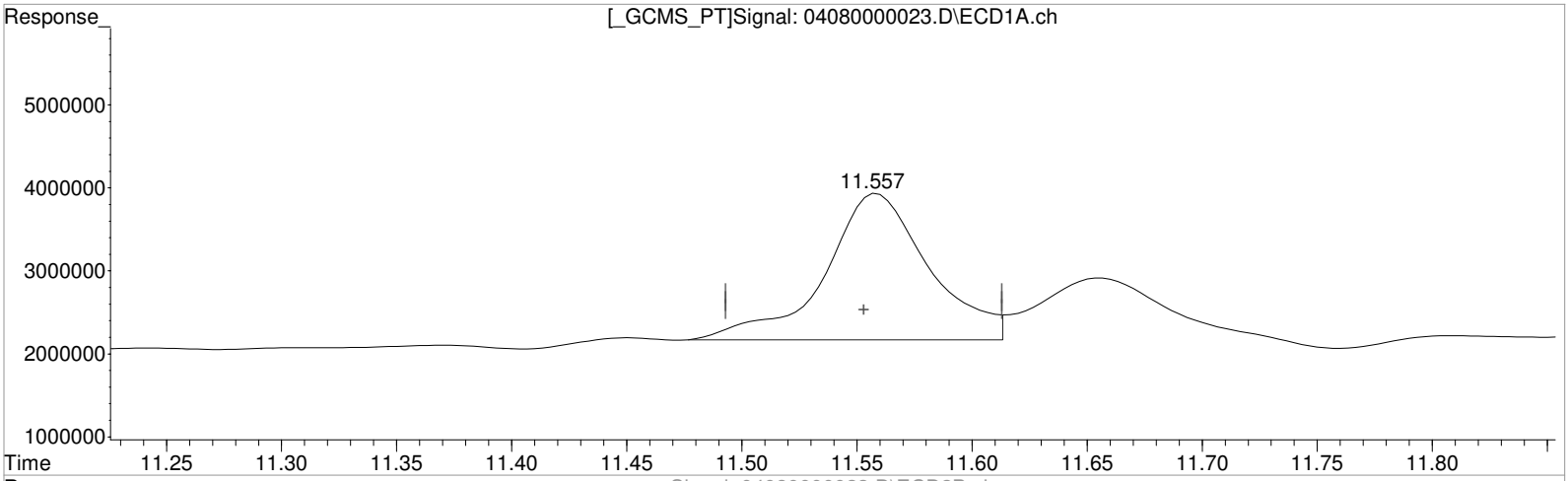
Quantitation Report (Qedit)

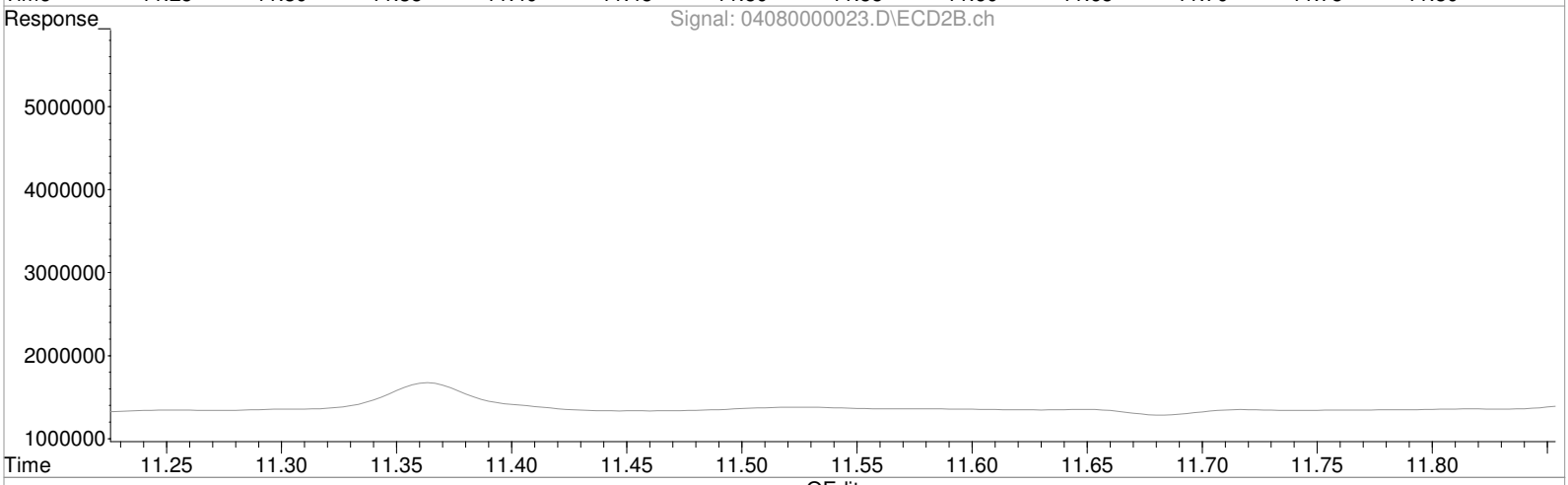
1st JTC 04/16/21
2nd 04/16/21

Data File : J:\GC34\DATA\040821-HB\04080000023.D Vial: 17
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-Apr-2021, 00:20:53 Operator: JTC
Sample : KQ2105127-04 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 09 09:08:32 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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)

11.557min 449.495 ppb

response 5575859

(5) MCPA #2 (m)

10.257min 340.923 ppb

response 1366438

Manual Integration:

Before

04/09/21

(+) = Expected Retention Time

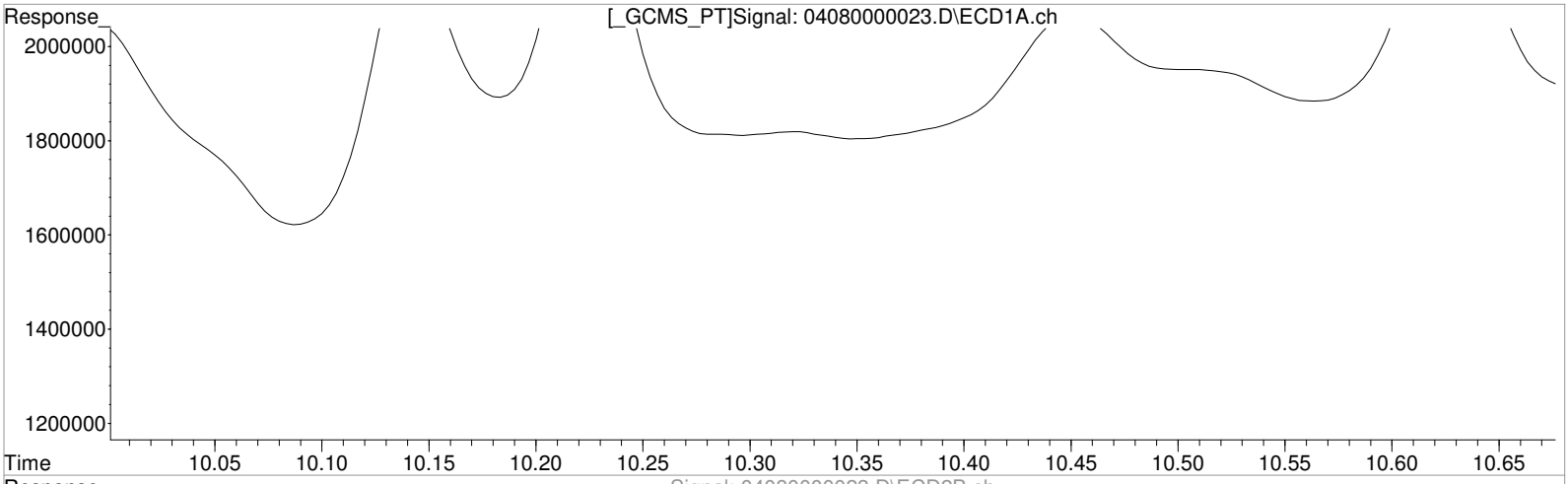
Quantitation Report (Qedit)

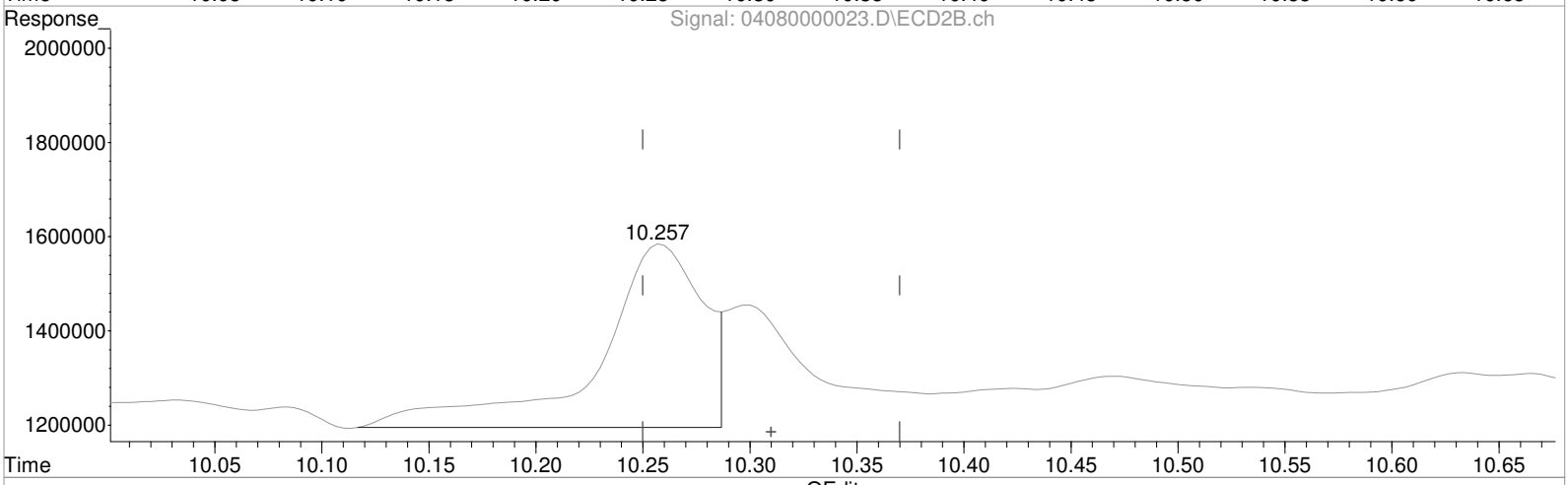
1st JTC 04/16/21
2nd 4w 04/16/21

Data File : J:\GC34\DATA\040821-HB\04080000023.D Vial: 17
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-Apr-2021, 00:20:53 Operator: JTC
Sample : KQ2105127-04 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 09 13:25:03 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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)

11.557min 386.088 ppb m

response 5170869

(5) MCPA #2 (m)

10.257min 340.923 ppb

response 1366438

Manual Integration:

Before

04/09/21

(+) = Expected Retention Time

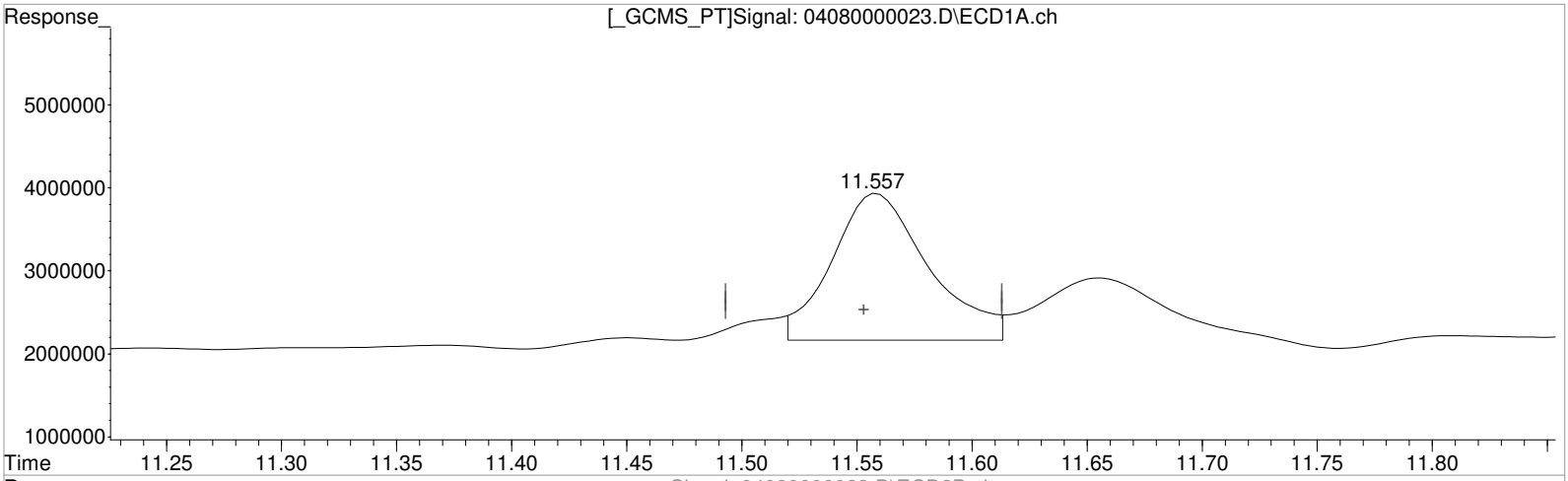
Quantitation Report (Qedit)

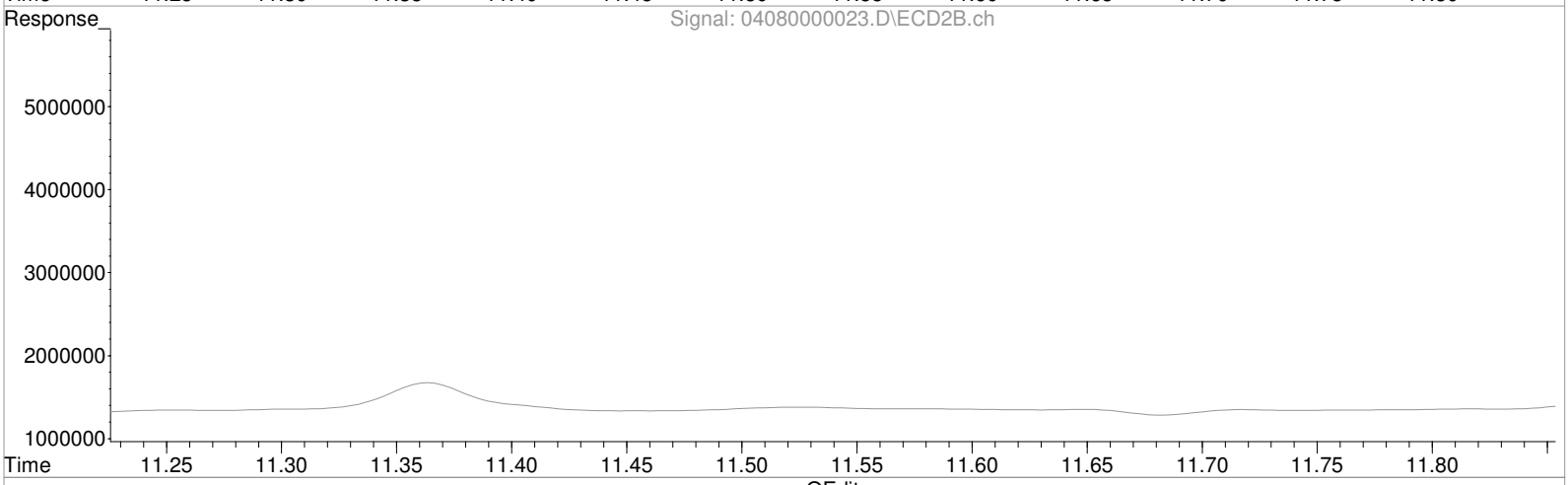
1st JTC 04/16/21
2nd 4w 04/16/21

Data File : J:\GC34\DATA\040821-HB\04080000023.D Vial: 17
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-Apr-2021, 00:20:53 Operator: JTC
Sample : KQ2105127-04 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 09 09:08:32 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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)

11.557min 386.088 ppb m

response 5170869

(5) MCPA #2 (m)

10.257min 340.923 ppb

response 1366438

Manual Integration:

After

Baseline/Shoulder

04/09/21

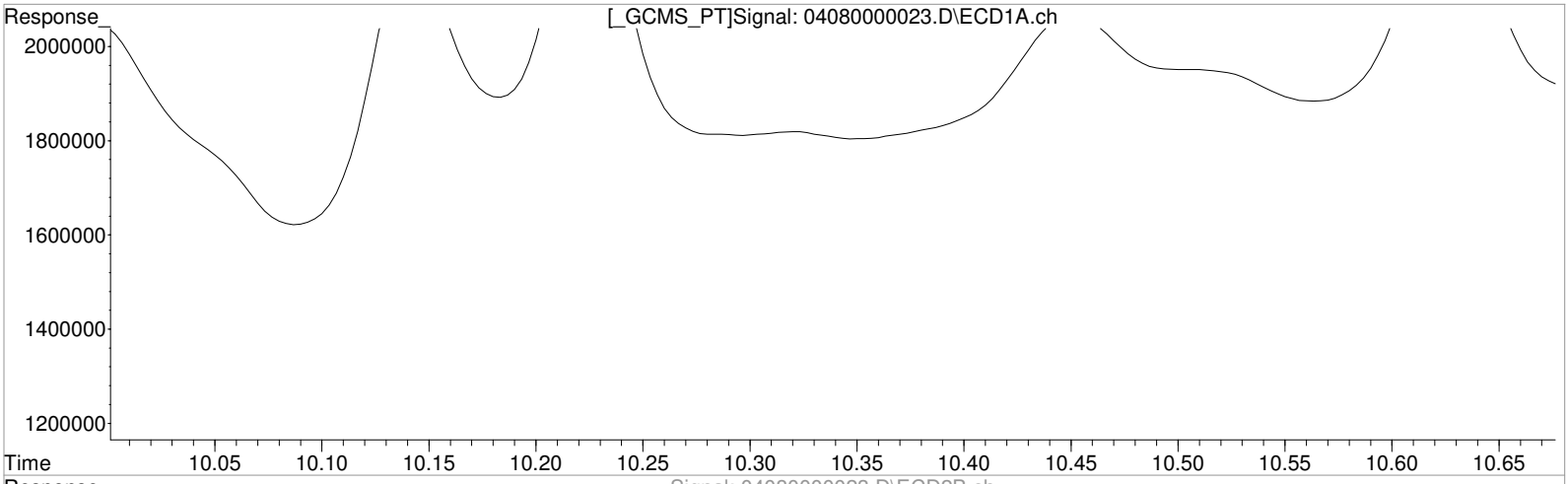
(+) = Expected Retention Time

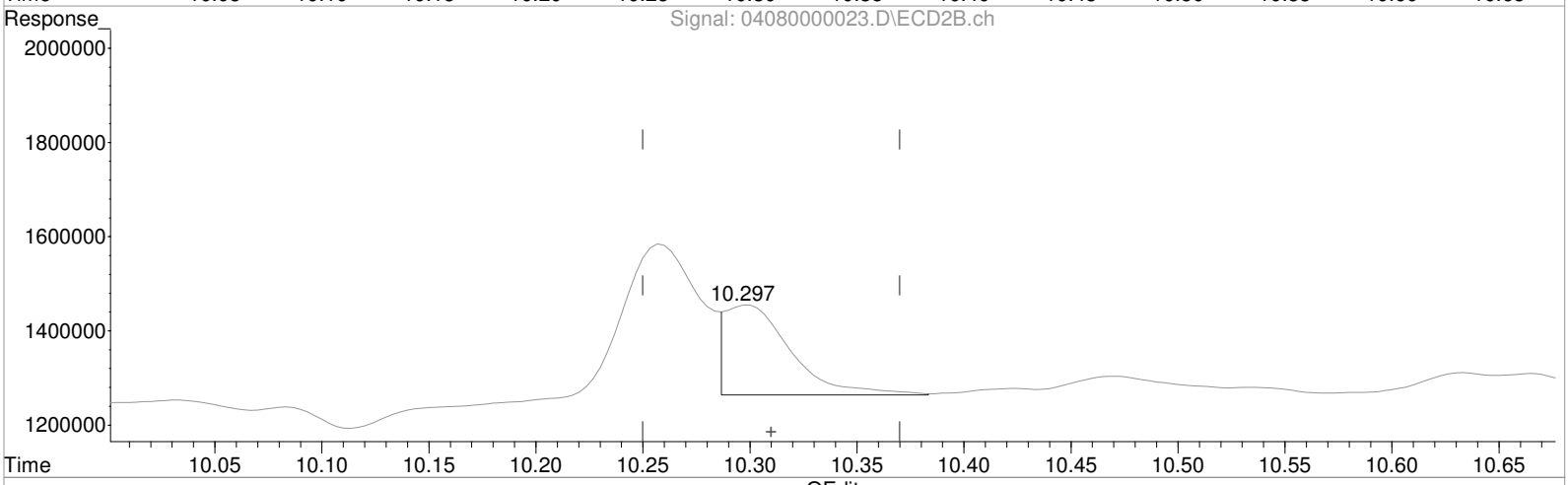
1st JTC 04/16/21
2nd 4w 04/16/21

Data File : J:\GC34\DATA\040821-HB\04080000023.D Vial: 17
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-Apr-2021, 00:20:53 Operator: JTC
Sample : KQ2105127-04 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 09 13:25:03 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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)

11.557min 386.088 ppb m

response 5170869

Manual Integration:

After

Baseline/Shoulder

04/09/21

(5) MCPA #2 (m)

10.297min 97.011 ppb m

response 388824

(+) = Expected Retention Time

1st JTC 04/19/21
2nd 4w 04/20/21

Validation Report

Data File: J:\GC34\DATA\041521-HB\04150000005.D\
Lab ID: KQ2105302-03
RunType: MB
Matrix: Water

Date Acquired: 4/15/21 12:12:14
Batch ID: 719860
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	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Surrogates	2,4-Dichlorophenylacetic Acid	9	17	113	narr

Primary Review: _____

Secondary Review: _____

1st JTC 04/19/21
2nd 4w 04/20/21

Quantitation Report

Data File:	J:\GC34\DATA\041521-HB\04150000005.D\	**Instrument:**	K-GC-34
Acqu Date:	4/15/21 12:12:14	**Vial:**	10
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2105302-03	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Water
Prod Code:	HERB	**Collect Date:**	3/30/21	**Receive Date:**	3/31/21

Analysis Lot:	719860	**Prep Lot:**	376888	**Report Group:**	KQ2105302
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	4/5/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100209
		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	10.04	9.68	9109201	5200555	11.289	12.262	9*	10*	9	*	17 - 113	Y

Target Compounds

Final Conc.Units: ug/L

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	12.47 -0.01	12.13 -0.02	5302690	321802	2.119	0.255	0.042J	0.0051U	0.033 U	Y
2,4,5-TP (Silvex)	12.17 -0.02	11.77 +0.02	281676	180992	0.092	0.114	0.0018U	0.0023U	0.045 U	Y
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	0.036 U	Y
2,4-DB	13.03 -0.02	12.71 +0.04	330564	441396	0.983	2.570	0.020U	0.051U	0.10 U	Y
Dalapon	5.53 -0.05	5.21 -0.01	815629	106795	0.850	0.210	0.017U	0.0042U	0.28 U	Y
Dicamba	10.32 +0.04	9.87 -0.02	192264	2158074	0.075	1.590	0.0015U	0.032J	0.025 U	Y
Dichlorprop	0.00	0.00	0	1256877	0.000	0.000	0U	0U	0.030 U	Y
Dinoseb	0.00	0.00	0	0	0.000	0.000	0U	0U	0.015 U	Y
MCPA	0.00	0.00	0	0	0.000	0.000	0U	0U	8.7 U	Y
MCPP	0.00	0.00	0	0	0.000	0.000	0Ui	0Ui	14 Ui	Y

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	20.00 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 (QT Reviewed)

1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041521-HB\04150000005.D Vial: 3
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15-Apr-2021, 12:12:14 Operator: JTC
Sample : KQ2105302-03 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 15 13:24:41 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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...	10.037	9.680	9109201	5200555	11.289	12.262	
		Target Compounds							
1)	m	Dalapon	5.527f	5.213	815629	106795	0.850	0.210	#
3)	m	Dicamba	10.317f	9.867f	192264	2158074	0.075	1.590	#
4)	m	MCPP	0.000	0.000	0	0	N.D.	N.D.	
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D.	
6)	m	Dichloroprop	0.000	10.587	0	1256877	N.D.	N.D.	
7)	m	2,4-D	0.000	0.000	0	0	N.D.	N.D.	
8)	m	2,4,5-TP ...	12.170	11.770	281676	180992	0.092	0.114	
9)	m	2,4,5-T	12.473	12.130	5302690	321802	2.119	0.255	#
10)	m	2,4-DB	13.030	12.707f	330564	441396	0.983	2.570	#
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.

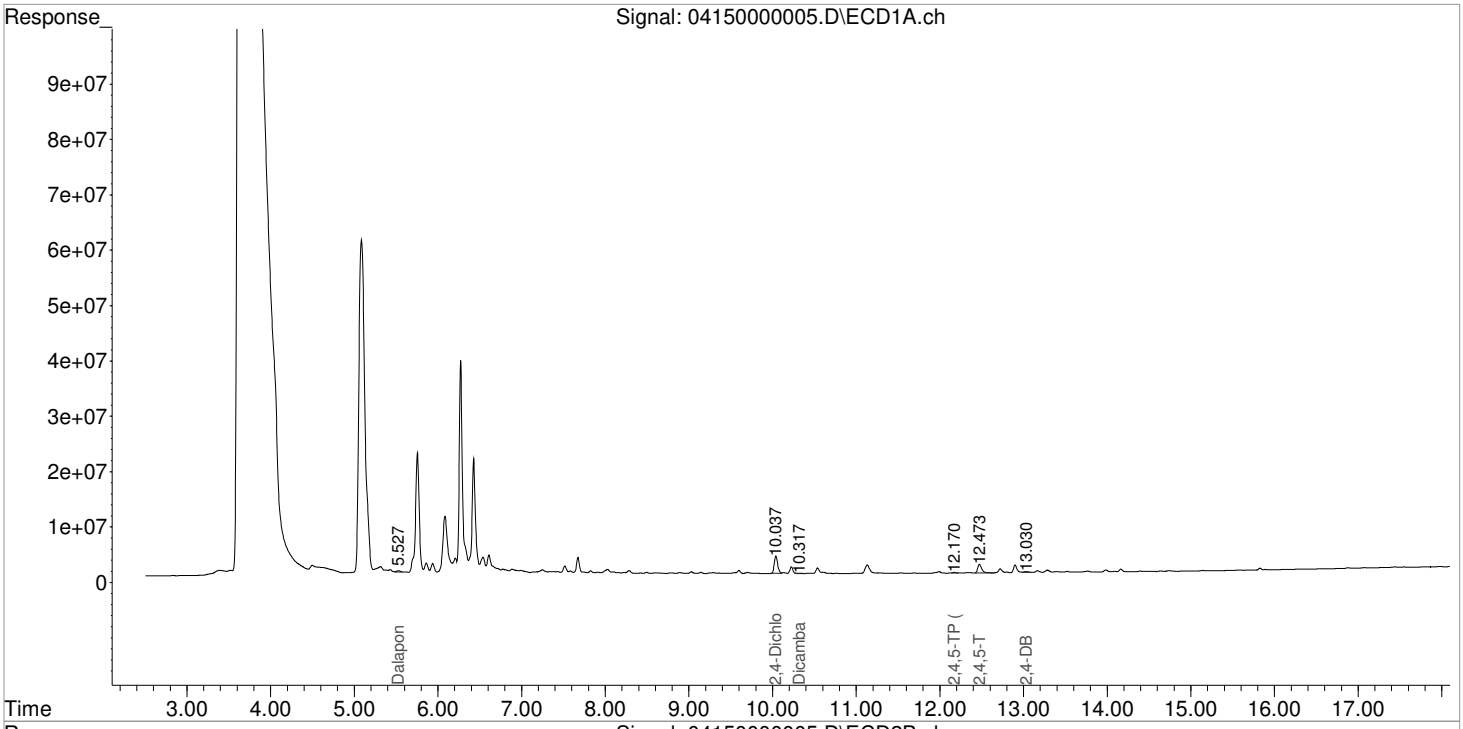
Quantitation Report (QT Reviewed)

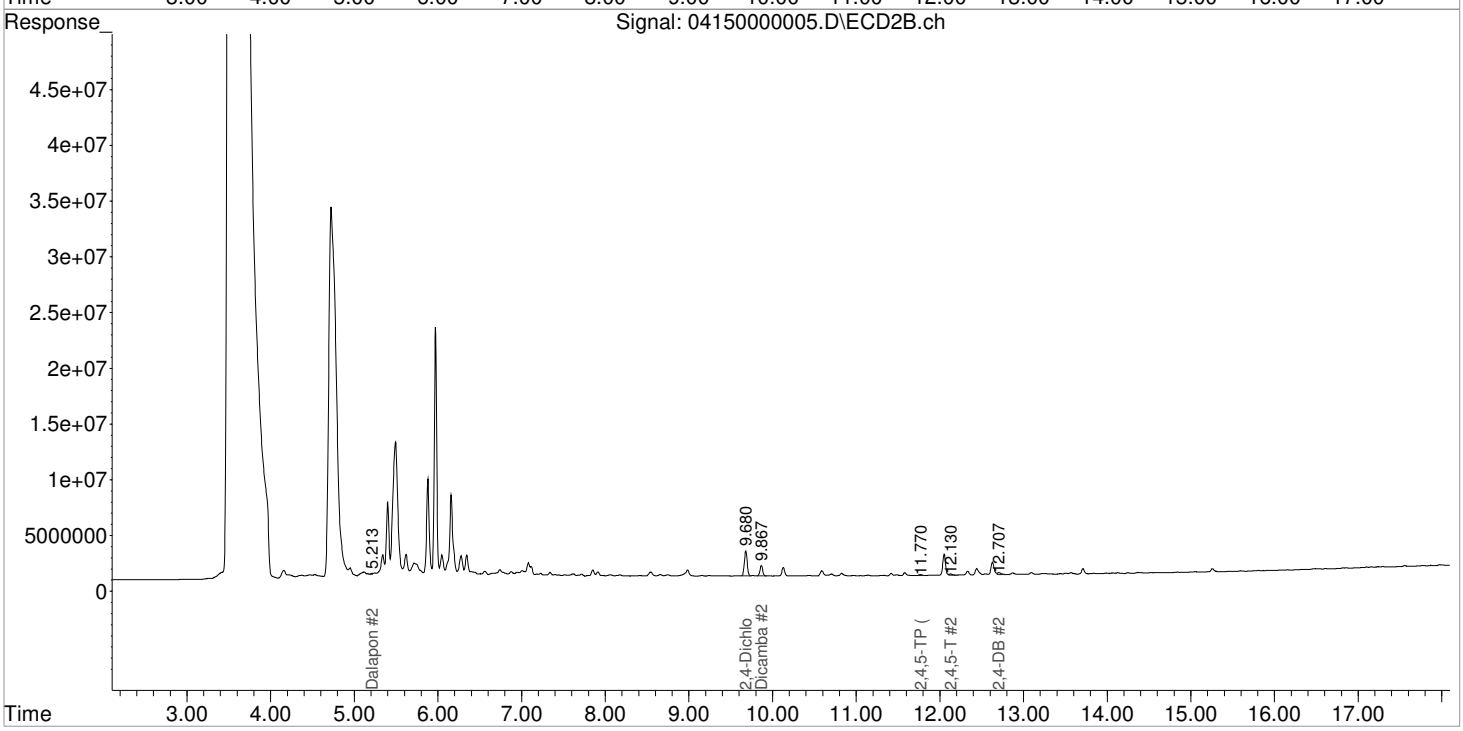
1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041521-HB\04150000005.D Vial: 3
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15-Apr-2021, 12:12:14 Operator: JTC
Sample : KQ2105302-03 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 15 13:24:41 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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





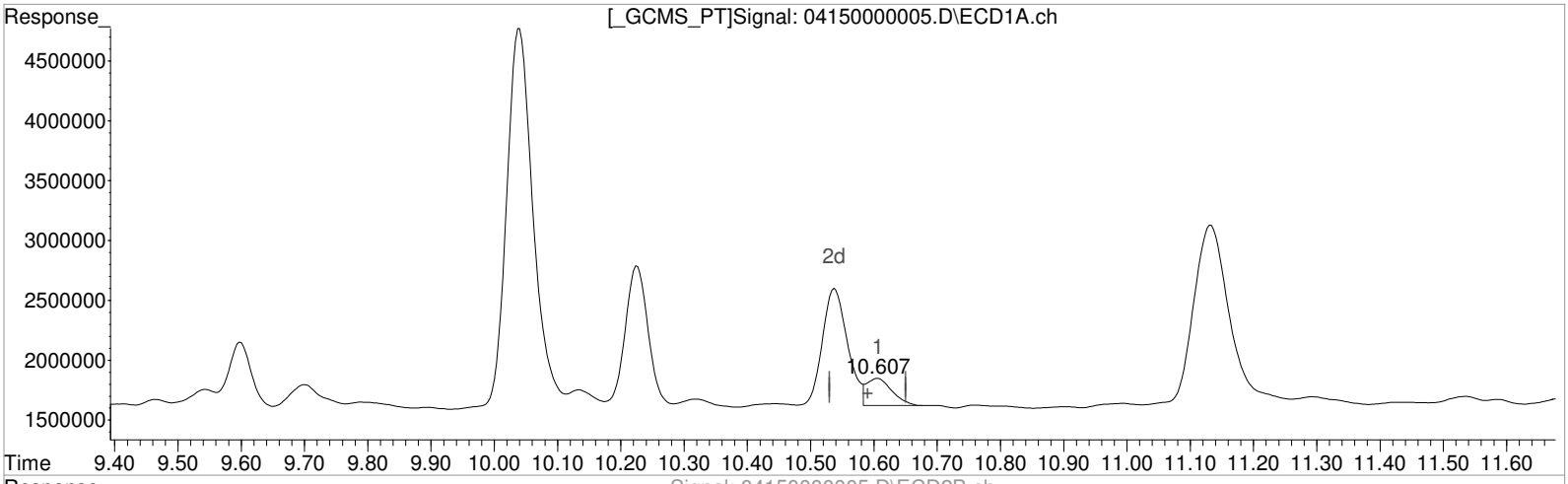
Quantitation Report (Qedit)

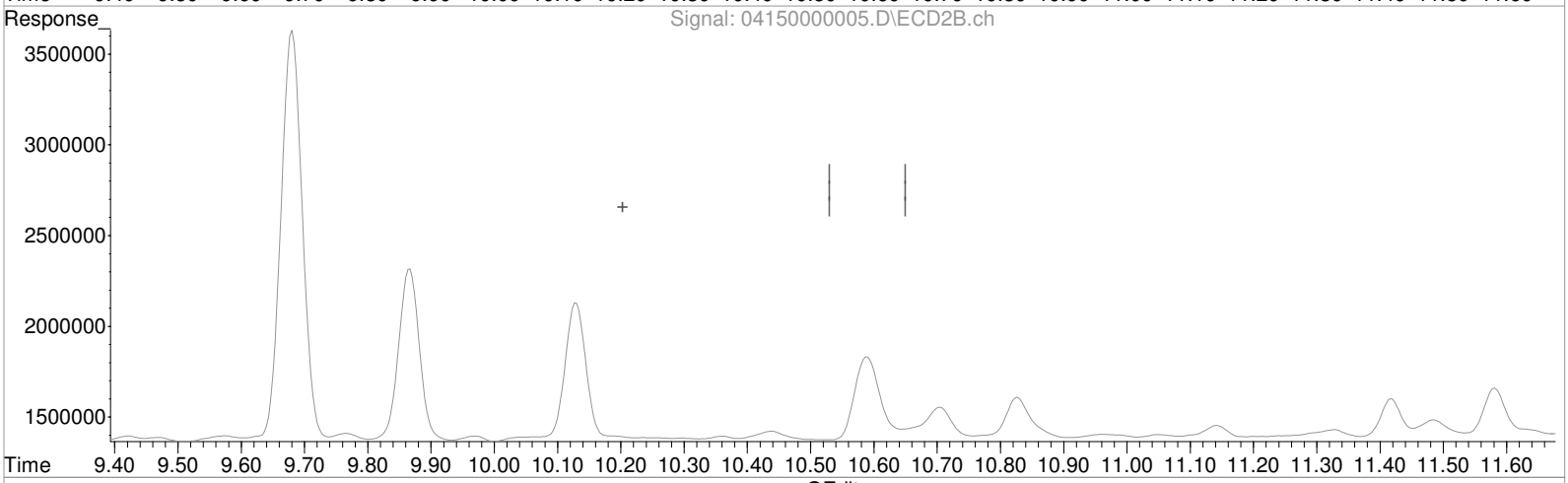
1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041521-HB\04150000005.D Vial: 3
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15-Apr-2021, 12:12:14 Operator: JTC
Sample : KQ2105302-03 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 15 13:22:10 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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)

10.607min 115711.632 ppb

response 623361

(5) MCPA #2 (m)

0.000min 0.000 ppb

response 0

Manual Integration:

Before

04/15/21

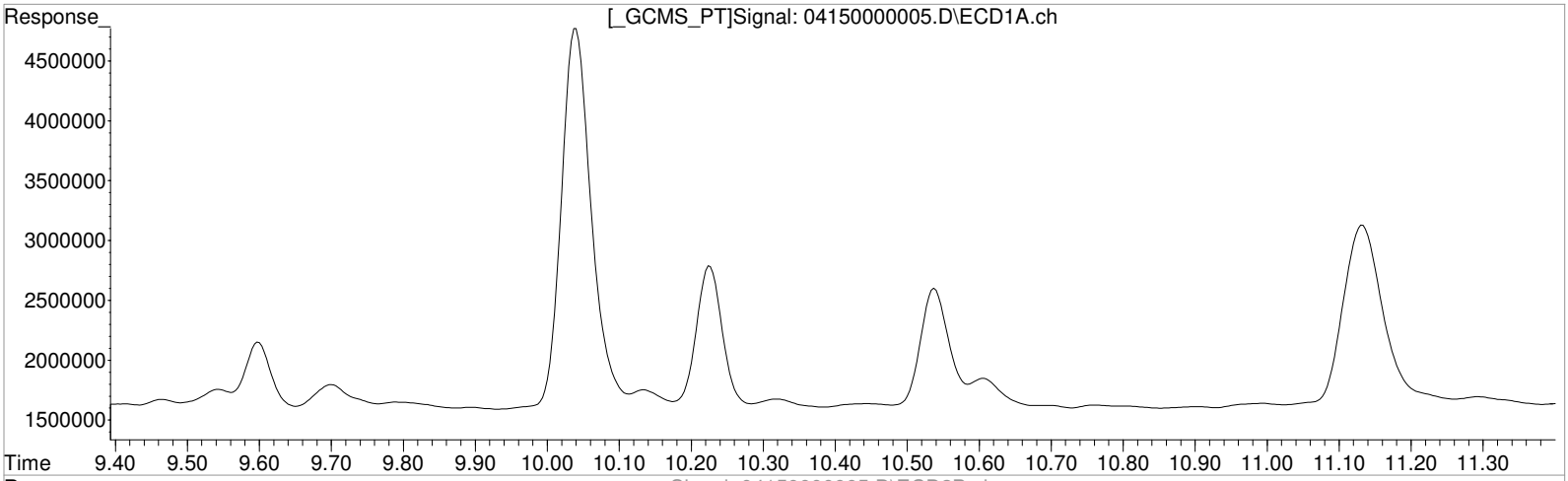
(+) = Expected Retention Time

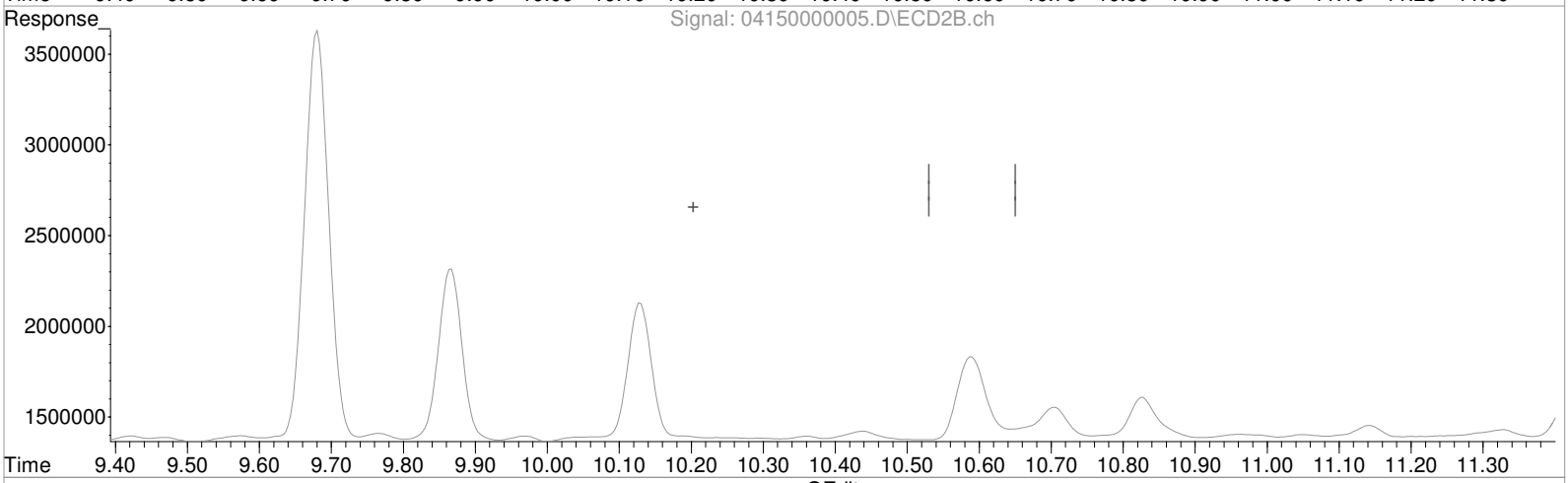
1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041521-HB\04150000005.D Vial: 3
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15-Apr-2021, 12:12:14 Operator: JTC
Sample : KQ2105302-03 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 15 13:22:10 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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)

0.000min 0.000 ppb d

response 0

(5) MCPA #2 (m)

0.000min 0.000 ppb

response 0

Manual Integration:

After

Quad Error

04/15/21

(+) = Expected Retention Time

1st JTC 04/19/21
2nd 4w 04/20/21

Validation Report

Data File: J:\GC34\DATA\041421-HB\04140000005.D\
Lab ID: KQ2105891-03
RunType: MB
Matrix: Water

Date Acquired: 4/14/21 15:56:02
Batch ID: 719851
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: _____

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Secondary Review: _____

1st JTC 04/19/21
2nd 4w 04/20/21

Quantitation Report

Data File:	J:\GC34\DATA\041421-HB\04140000005.D\	**Instrument:**	K-GC-34
Acqu Date:	4/14/21 15:56:02	**Vial:**	10
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2105891-03	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Water
Prod Code:	HERB	**Collect Date:**	3/30/21	**Receive Date:**	3/31/21

Analysis Lot:	719851	**Prep Lot:**	377380	**Report Group:**	KQ2105891
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	4/13/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100209
		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	10.04	9.68	31036896	16109319	38.464	37.983	31	30	30	17 - 113	Y

Target Compounds

Final Conc.Units: ug/L

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	12.48	12.13 -0.02	2957841	435948	1.182	0.345	0.022U	0.0065U	0.033 U	Y
2,4,5-TP (Silvex)	12.17 -0.02	11.77 +0.02	237531	111675	0.077	0.070	0.0015U	0.0013U	0.045 U	Y
2,4-D	11.28 +0.02	0.00	188930	0	0.264	0.000	0.0050U	0U	0.036 U	Y
2,4-DB	13.03 -0.02	12.71 +0.04	433793	385934	1.290	2.247	0.024U	0.042U	0.10 U	Y
Dalapon	5.58	0.00	17996153	0	18.765	0.000	0.35J	0U	0.28 U	Y
Dicamba	10.22 -0.05	9.87 -0.02	2021923	1429504	0.787	1.053	0.015U	0.020U	0.025 U	Y
Dichlorprop	10.99 -0.02	10.61 +0.04	365363	2736773	0.506	2.764	0.0095U	0.052J	0.030 U	Y
Dinoseb	0.00	12.99 -0.04	0	184317	0.000	0.172	0U	0.0032U	0.015 U	Y
MCPA	10.61 +0.02	0.00	3475510	0	41.385	0.000	0.78U	0U	8.7 U	Y
MCPP	0.00	0.00	383519	86446	0.000	0.000	0U	0U	14 U	Y

Prep Amount:	1060.0000 mL	**Dilution:**	1
Prep Final Amount:	20.00 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 (QT Reviewed)

1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041421-HB\04140000005.D Vial: 3
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14-Apr-2021, 15:56:02 Operator: JTC
Sample : KQ2105891-03 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 15 08:01:51 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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...	10.037	9.683	31036896	16109319	38.464	37.983	
		Target Compounds							
1)	m	Dalapon	5.577	0.000	17996153	0	18.765	N.D.	#
3)	m	Dicamba	10.220f	9.867f	2021923	1429504	0.787	1.053	#
4)	m	MCPP	10.417	9.967	383519	86446	N.D.	N.D.	
5)	m	MCPA	10.607	0.000	3475510	0	41.385	N.D.	#
6)	m	Dichloroprop	10.993	10.610f	365363	2736773	0.506	2.764	#
7)	m	2,4-D	11.277	0.000	188930	0	0.264	N.D.	#
8)	m	2,4,5-TP ...	12.170	11.773	237531	111675	0.077	0.070	
9)	m	2,4,5-T	12.477	12.133	2957841	435948	1.182	0.345	#
10)	m	2,4-DB	13.033	12.710f	433793	385934	1.290	2.247	#
11)	m	Dinoseb	0.000	12.993f	0	184317	N.D.	0.172	#

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

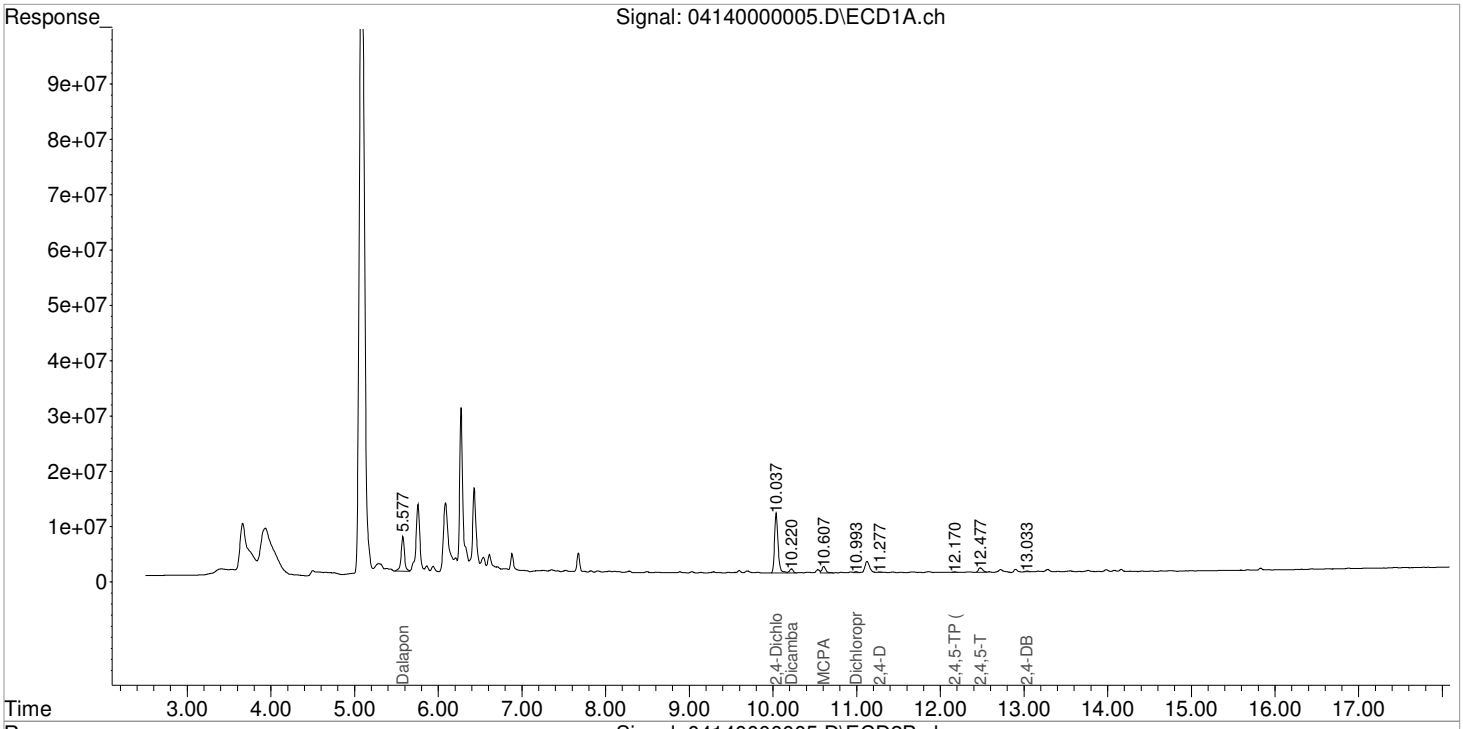
Quantitation Report (QT Reviewed)

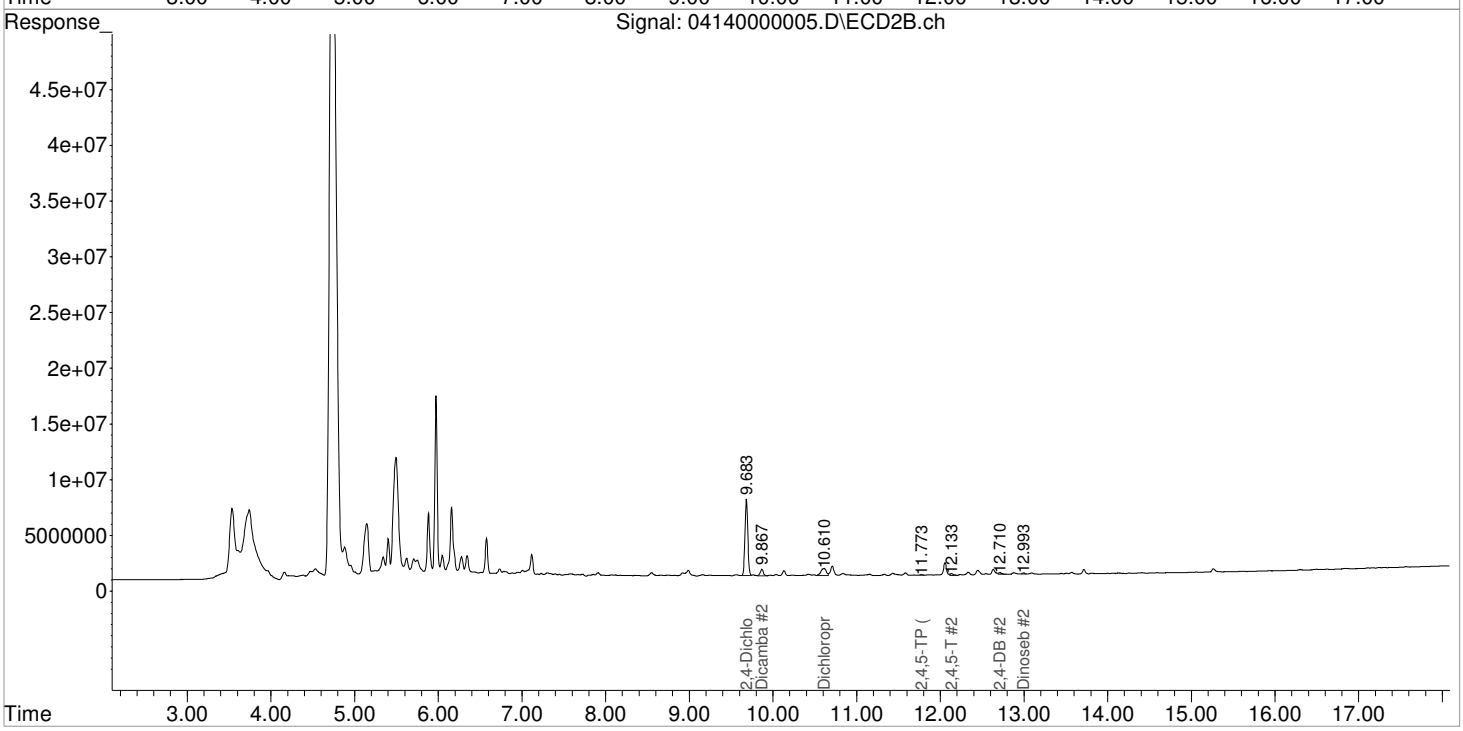
1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041421-HB\04140000005.D Vial: 3
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14-Apr-2021, 15:56:02 Operator: JTC
Sample : KQ2105891-03 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 15 08:01:51 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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





1st JTC 04/16/21
2nd 4w 04/16/21

Validation Report

Data File: J:\GC34\DATA\040821-HB\04080000024.D\
Lab ID: KQ2105127-03
RunType: LCS
Matrix: Soil

Date Acquired: 4/9/21 00:44:47
Batch ID: 719207
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: _____

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Secondary Review: _____

1st JTC 04/16/21
2nd 4w 04/16/21

Quantitation Report

Data File:	J:\GC34\DATA\040821-HB\04080000024.D\	**Instrument:**	K-GC-34
Acqu Date:	4/9/21 00:44:47	**Vial:**	15
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2105127-03	**Raw Units:**	ppb

Bottle ID:		**Tier:**	II	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	3/26/21	**Receive Date:**	3/31/21

Analysis Lot:	719207	**Prep Lot:**	376743	**Report Group:**	KQ2105127
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	4/2/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100194
		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	11.01	9.48	78239728	32088827	76.310	78.965	76	79	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-T	13.72	12.05	380067543	103838403	83.542	83.588	138	138	**138**		Y
2,4,5-TP (Silvex)	13.34	11.50	421284688	116216179	87.221	77.635	144	128	**128**		Y
2,4-D	12.27	10.94	102350733	53880056	87.163	68.636	144	114	**114**		Y
2,4-DB	14.32	12.54 -0.01	43552900	22039071	63.605	127.841	105	211	**105**	P	Y
Dalapon	5.69	4.84	70043210	35343783	68.962	70.284	114	116	**114**		Y
Dicamba	11.14	9.66	262610676	108958594	86.881	81.297	144	134	**134**		Y
Dichlorprop	11.97	10.75	79034684	29440702	82.655	74.793	137	124	**124**		Y
Dinoseb	14.47	12.43	196983124	58657410	59.465	58.465	98.4	96.7	**96.7**		Y
MCPA	11.55	10.30	68916051	28121360	10366.277	7016.207	17100	11600	**11600**		Y
MCPP	11.30	10.01	34154118	18706139	8664.606	6992.953	14300	11600	**11600**		Y

Prep Amount:	30.2310 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 (QT Reviewed)

1st JTC 04/16/21
2nd 4w 04/16/21

Data File : J:\GC34\DATA\040821-HB\04080000024.D Vial: 18
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-Apr-2021, 00:44:47 Operator: JTC
Sample : KQ2105127-03 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 09 09:08:35 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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...	11.010	9.477	78239728	32088827	76.310	78.965	
		Target Compounds							
1)	m	Dalapon	5.687	4.843	70043210	35343783	68.962	70.284	
3)	m	Dicamba	11.140	9.660	262.6E6	109.0E6	86.881	81.297	
4)	m	MCPP	11.297	10.010	34154118	18706139	8664.606	6992.953	
5)	m	MCPA	11.547	10.303	68916051	28121360	10366.277	7016.207	#
6)	m	Dichloroprop	11.970	10.750	79034684	29440702	82.655	74.793	
7)	m	2,4-D	12.270	10.940	102.4E6	53880056	87.163	68.636	
8)	m	2,4,5-TP ...	13.337	11.503	421.3E6	116.2E6	87.221	77.635	
9)	m	2,4,5-T	13.717	12.047	380.1E6	103.8E6	83.542	83.588	
10)	m	2,4-DB	14.317	12.543	43552900	22039071	63.605	127.841	#
11)	m	Dinoseb	14.467	12.433	197.0E6	58657410	59.465	58.465	

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

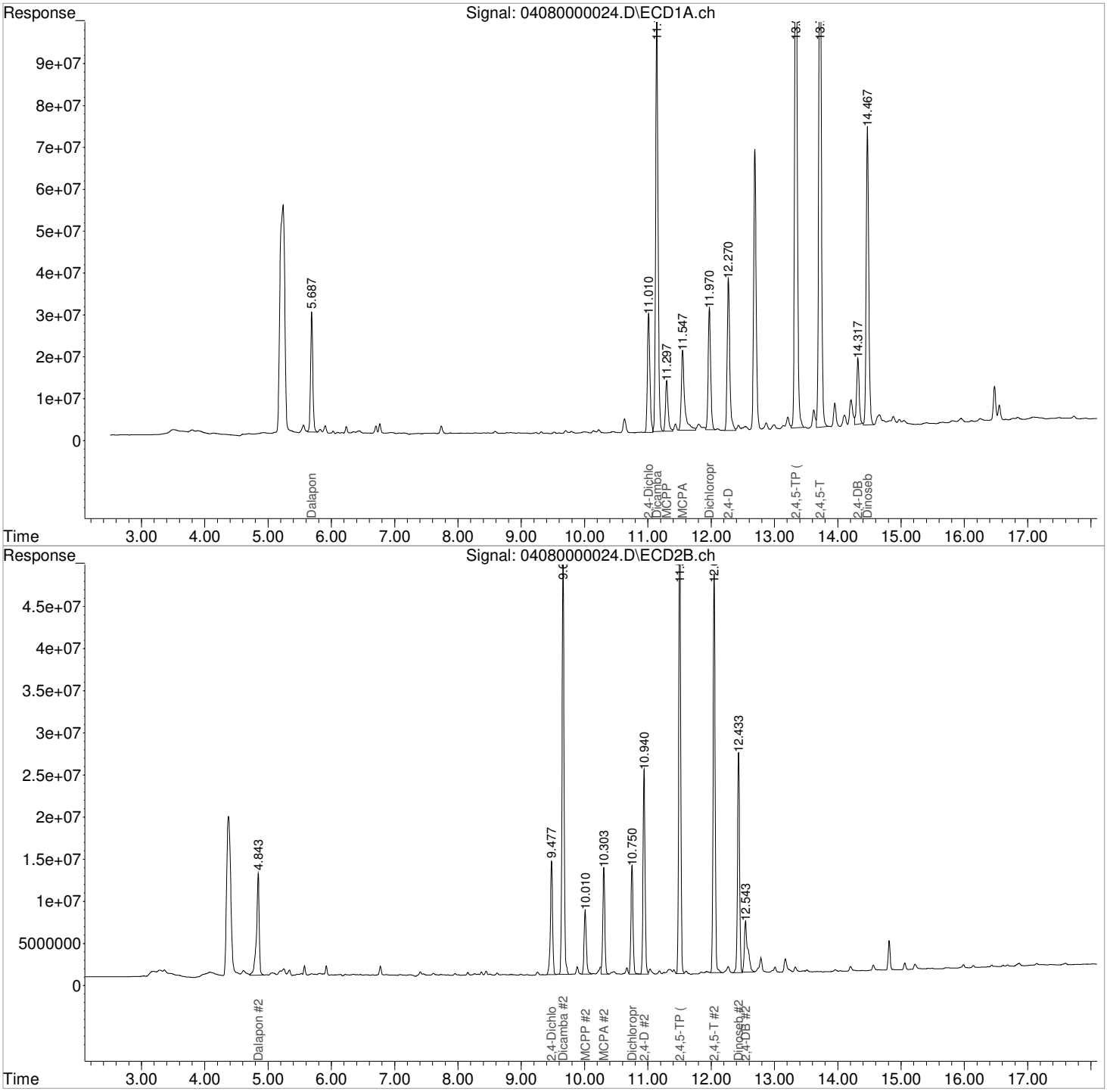
Quantitation Report (QT Reviewed)

1st JTC 04/16/21
2nd 4w 04/16/21

Data File : J:\GC34\DATA\040821-HB\04080000024.D Vial: 18
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-Apr-2021, 00:44:47 Operator: JTC
Sample : KQ2105127-03 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 09 09:08:35 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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



1st JTC 04/19/21
2nd 4w 04/20/21

Validation Report

Data File: J:\GC34\DATA\041521-HB\04150000006.D\
Lab ID: KQ2105302-01
RunType: LCS
Matrix: Water

Date Acquired: 4/15/21 12:36:14
Batch ID: 719860
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: _____

Printed: 4/19/21 16:02
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Secondary Review: _____

1st JTC 04/19/21
2nd 4w 04/20/21

Quantitation Report

Data File:	J:\GC34\DATA\041521-HB\04150000006.D\	**Instrument:**	K-GC-34
Acqu Date:	4/15/21 12:36:14	**Vial:**	8
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2105302-01	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Water
Prod Code:	HERB	**Collect Date:**	3/30/21	**Receive Date:**	3/31/21

Analysis Lot:	719860	**Prep Lot:**	376888	**Report Group:**	KQ2105302
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	4/5/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100209
		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	10.04	9.68	22394863	13240285	27.754	31.218	22	25	22	17 - 113	Y

Target Compounds

Final Conc.Units: ug/L

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	12.48	12.15	194495506	119302841	77.735	94.450	1.55	1.89	**1.55**	Y
2,4,5-TP (Silvex)	12.19	11.75	213837154	110473341	69.721	69.736	1.39	1.39	**1.39**	Y
2,4-D	11.26	10.89	44627549	24981932	62.285	64.003	1.25	1.28	**1.25**	Y
2,4-DB	13.08 +0.03	12.62 -0.05	43432161	21676472	129.201	126.229	2.58Ui	2.52Ui	2.6 Ui	Y
Dalapon	5.57 -0.01	5.21 -0.01	66351712	36485291	69.186	71.905	1.38	1.44	**1.38**	Y
Dicamba	10.27 -0.01	9.89	172592378	91941465	67.219	67.740	1.34	1.35	**1.34**	Y
Dichlorprop	11.02	10.57	39309292	24492771	54.416	61.228	1.09	1.22	**1.09**	Y
Dinoseb	14.28 -0.01	13.03	100917440	56243286	49.794	52.471	0.996	1.05	**0.996**	Y
MCPA	10.59	10.20	25743375	13091174	4286.064	4567.449	85.7J	91.3J	**85.7** J	Y
MCPP	10.42	9.96	15934281	9019937	4374.825	5272.374	87.5J	105	**87.5** J	Y

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	20.00 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 (QT Reviewed)

1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041521-HB\04150000006.D Vial: 4
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15-Apr-2021, 12:36:14 Operator: JTC
Sample : KQ2105302-01 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 19 15:54:38 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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...	10.037	9.680	22394863	13240285	27.754	31.218
		Target Compounds						
1)	m	Dalapon	5.573	5.213	66351712	36485291	69.186	71.905
3)	m	Dicamba	10.273	9.893	172.6E6	91941465	67.219	67.740
4)	m	MCPP	10.423	9.957	15934281	9019937	4374.825	5272.374
5)	m	MCPA	10.587	10.197	25743375	13091174	4286.064	4567.449
6)	m	Dichloroprop	11.017	10.570	39309292	24492771	54.416	61.228
7)	m	2,4-D	11.260	10.890	44627549	24981932	62.285	64.003
8)	m	2,4,5-TP ...	12.187	11.750	213.8E6	110.5E6	69.721	69.736
9)	m	2,4,5-T	12.480	12.147	194.5E6	119.3E6	77.735	94.450
10)	m	2,4-DB	13.083f	12.623f	43432161	21676472	129.201	126.229
11)	m	Dinoseb	14.283	13.027	100.9E6	56243286	49.794	52.471

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

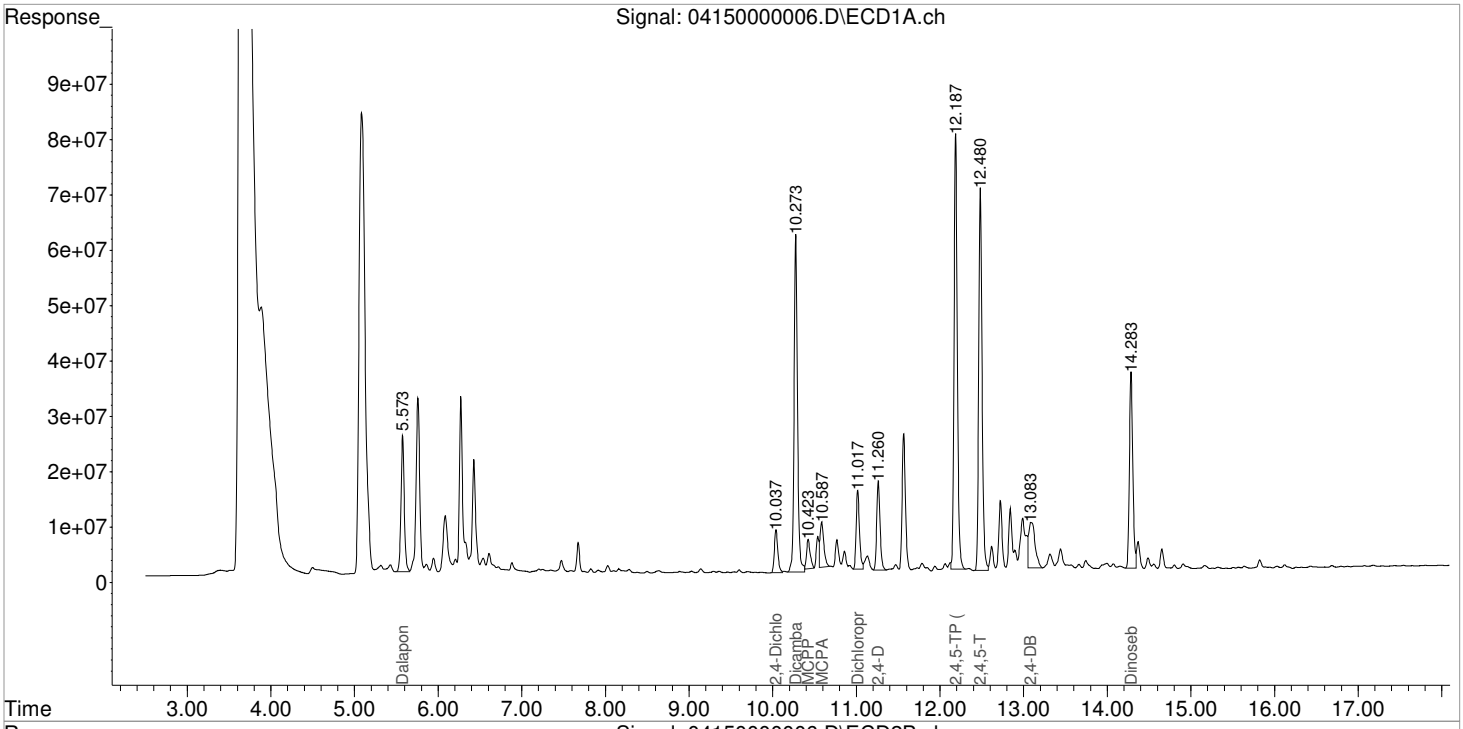
Quantitation Report (QT Reviewed)

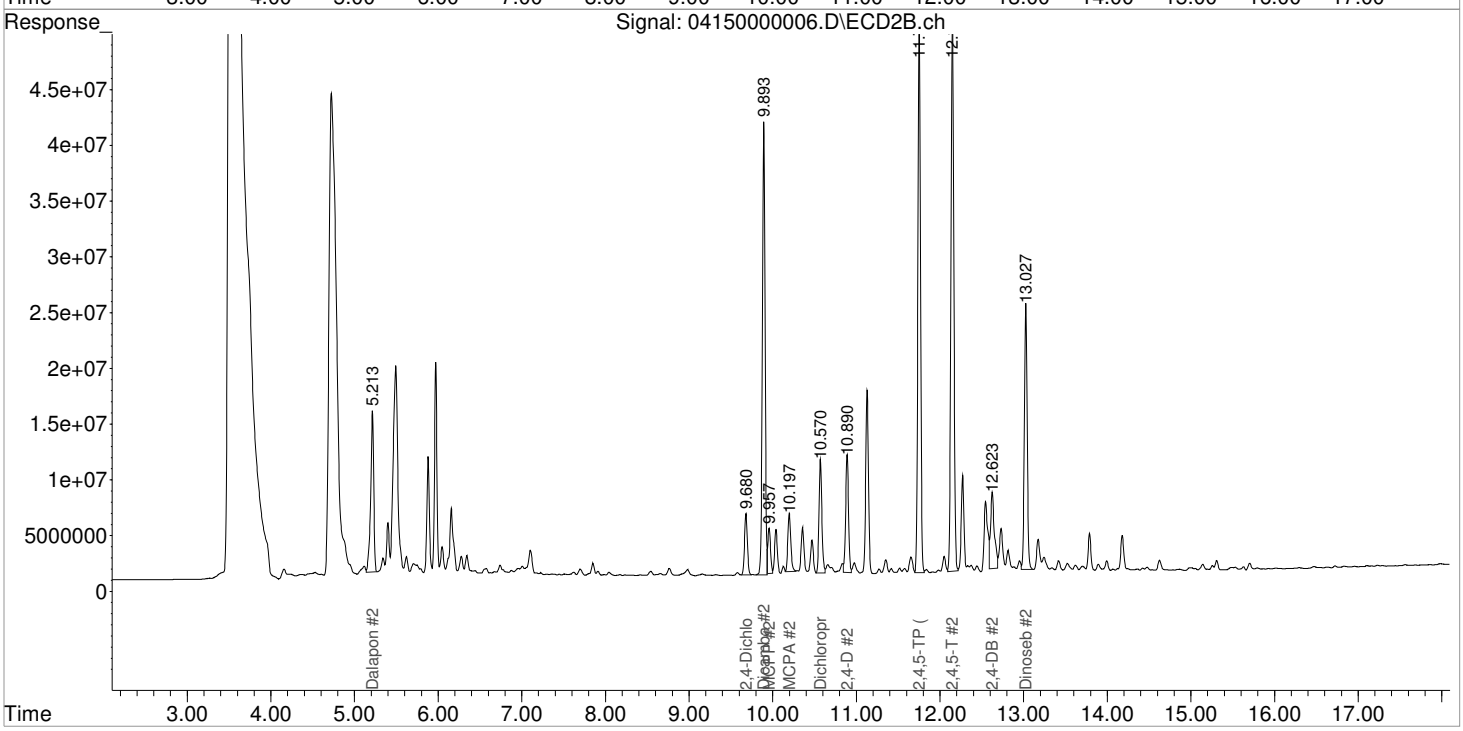
1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041521-HB\04150000006.D Vial: 4
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15-Apr-2021, 12:36:14 Operator: JTC
Sample : KQ2105302-01 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 19 15:54:38 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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





1st JTC 04/19/21
2nd 4w 04/20/21

Validation Report

Data File: J:\GC34\DATA\041421-HB\04140000006.D\
Lab ID: KQ2105891-01
RunType: LCS
Matrix: Water

Date Acquired: 4/14/21 16:20:14
Batch ID: 719851
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: _____

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Secondary Review: _____

1st JTC 04/19/21
2nd 4w 04/20/21

Quantitation Report

Data File:	J:\GC34\DATA\041421-HB\04140000006.D\	**Instrument:**	K-GC-34
Acqu Date:	4/14/21 16:20:14	**Vial:**	8
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2105891-01	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Water
Prod Code:	HERB	**Collect Date:**	3/30/21	**Receive Date:**	3/31/21

Analysis Lot:	719851	**Prep Lot:**	377380	**Report Group:**	KQ2105891
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	4/13/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100209
		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	10.04	9.68	30088865	16762760	37.289	39.524	30	32	30	17 - 113	Y

Target Compounds

Final Conc.Units: ug/L

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		12.48	12.15	229592242	140958320	91.762	111.595	1.84	2.23	**1.84**	Y
2,4,5-TP (Silvex)		12.19	11.75	248925287	122665972	81.162	77.433	1.62	1.55	**1.55**	Y
2,4-D		11.26	10.89	51411025	26519734	71.753	67.943	1.44	1.36	**1.36**	Y
2,4-DB	Int	13.08 +0.03	12.62 -0.05	62611135	29088558	186.255	169.391	3.73	3.39	**3.39**	Y
Dalapon		5.57 -0.01	5.21 -0.01	86321444	54080424	90.008	106.581	1.80	2.13	**2.13**	Y
Dicamba		10.28 +0.01	9.89	196802711	102671534	76.648	75.645	1.53	1.51	**1.51**	Y
Dichlorprop		11.02 +0.01	10.57	42692765	29029617	59.099	73.420	1.18	1.47	**1.18**	Y
Dinoseb		14.28	13.03	164329705	88022979	81.082	82.119	1.62	1.64	**1.62**	Y
MCPA		10.59	10.20	27814769	14565128	4698.217	5184.380	94.0J	104	**94.0** J	Y
MCPP		10.42	9.96	17051573	9237419	4745.628	5414.198	94.9J	108	**94.9** J	Y

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	20.00 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 (QT Reviewed)

1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041421-HB\04140000006.D Vial: 4
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14-Apr-2021, 16:20:14 Operator: JTC
Sample : KQ2105891-01 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 19 15:45:17 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu Apr 15 16:33:50 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...	10.040	9.680	30088865	16762760	37.289	39.524
		Target Compounds						
1)	m	Dalapon	5.573	5.210	86321444	54080424	90.008	106.581
3)	m	Dicamba	10.277	9.893	196.8E6	102.7E6	76.648	75.645
4)	m	MCPP	10.423	9.957	17051573	9237419	4745.628	5414.198
5)	m	MCPA	10.587	10.197	27814769	14565128	4698.217	5184.380
6)	m	Dichloroprop	11.017	10.570	42692765	29029617	59.099	73.420
7)	m	2,4-D	11.263	10.890	51411025	26519734	71.753	67.943
8)	m	2,4,5-TP ...	12.187	11.753	248.9E6	122.7E6	81.162	77.433
9)	m	2,4,5-T	12.483	12.150	229.6E6	141.0E6	91.762	111.595
10)	m	2,4-DB	13.083f	12.623f	62611135	29088558	186.255	169.391
11)	m	Dinoseb	14.283	13.027	164.3E6	88022979	81.082	82.119

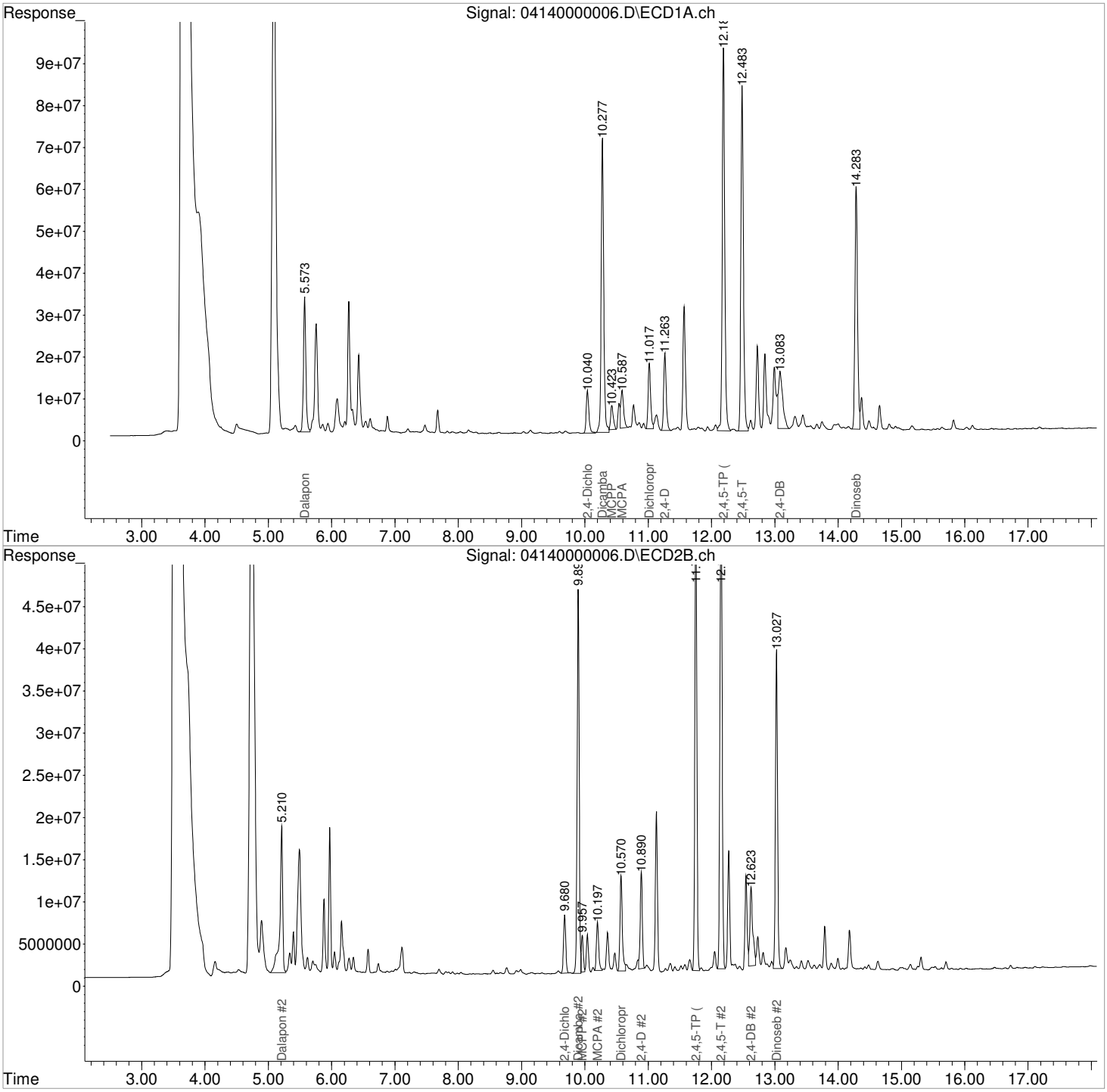
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041421-HB\04140000006.D Vial: 4
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14-Apr-2021, 16:20:14 Operator: JTC
Sample : KQ2105891-01 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 19 15:45:17 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu Apr 15 16:33:50 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



1st JTC 04/19/21
2nd 4w 04/20/21

Validation Report

Data File: J:\GC34\DATA\041521-HB\04150000007.D\
Lab ID: KQ2105302-02
RunType: DLCS
Matrix: Water

Date Acquired: 4/15/21 13:00:21
Batch ID: 719860
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: _____

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Secondary Review: _____

1st JTC 04/19/21
2nd 4w 04/20/21

Quantitation Report

Data File:	J:\GC34\DATA\041521-HB\04150000007.D\	**Instrument:**	K-GC-34
Acqu Date:	4/15/21 13:00:21	**Vial:**	9
Run Type:	DLCS	**Dilution:**	1
Lab ID:	KQ2105302-02	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Water
Prod Code:	HERB	**Collect Date:**	3/30/21	**Receive Date:**	3/31/21

Analysis Lot:	719860	**Prep Lot:**	376888	**Report Group:**	KQ2105302
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	4/5/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100209
		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	10.04	9.68	24888237	15201923	30.844	35.844	25	29	25	17 - 113	Y

Target Compounds

Final Conc.Units: ug/L

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	12.48	12.15	206028514	118285247	82.344	93.645	1.65	1.87	**1.65**	Y
2,4,5-TP (Silvex)	12.19	11.75	228163960	117041421	74.392	73.882	1.49	1.48	**1.48**	Y
2,4-D	11.26	10.89	49837000	27447829	69.556	70.321	1.39	1.41	**1.39**	Y
2,4-DB	13.08 +0.03	12.62 -0.05	36956817	18516330	109.939	107.826	2.20Ui	2.16Ui	2.3 Ui	Y
Dalapon	5.57 -0.01	5.21 -0.01	69557790	39153766	72.529	77.164	1.45	1.54	**1.45**	Y
Dicamba	10.27 -0.01	9.89	187979849	100712599	73.212	74.202	1.46	1.48	**1.46**	Y
Dichlorprop	11.02	10.57	45853717	26257854	63.475	65.972	1.27	1.32	**1.27**	Y
Dinoseb	14.28 -0.01	13.02 -0.01	156060684	83952143	77.002	78.322	1.54	1.57	**1.54**	Y
MCPA	10.59	10.20	36684717	15741725	6500.676	5676.851	130	114	**114**	Y
MCPP	10.42	9.96	23716636	10637877	6957.604	6327.463	139	127	**127**	Y

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	20.00 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 (QT Reviewed)

1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041521-HB\04150000007.D Vial: 5
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15-Apr-2021, 13:00:21 Operator: JTC
Sample : KQ2105302-02 DLCS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 19 15:56:56 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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...	10.037	9.677	24888237	15201923	30.844	35.844
		Target Compounds						
1)	m	Dalapon	5.570	5.210	69557790	39153766	72.529	77.164
3)	m	Dicamba	10.273	9.890	188.0E6	100.7E6	73.212	74.202
4)	m	MCPP	10.423	9.957	23716636	10637877	6957.604	6327.463
5)	m	MCPA	10.587	10.197	36684717	15741725	6500.676	5676.851
6)	m	Dichloroprop	11.017	10.567	45853717	26257854	63.475	65.972
7)	m	2,4-D	11.260	10.887	49837000	27447829	69.556	70.321
8)	m	2,4,5-TP ...	12.187	11.750	228.2E6	117.0E6	74.392	73.882
9)	m	2,4,5-T	12.480	12.147	206.0E6	118.3E6	82.344	93.645
10)	m	2,4-DB	13.083f	12.623f	36956817	18516330	109.939m	107.826
11)	m	Dinoseb	14.283	13.023	156.1E6	83952143	77.002	78.322

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

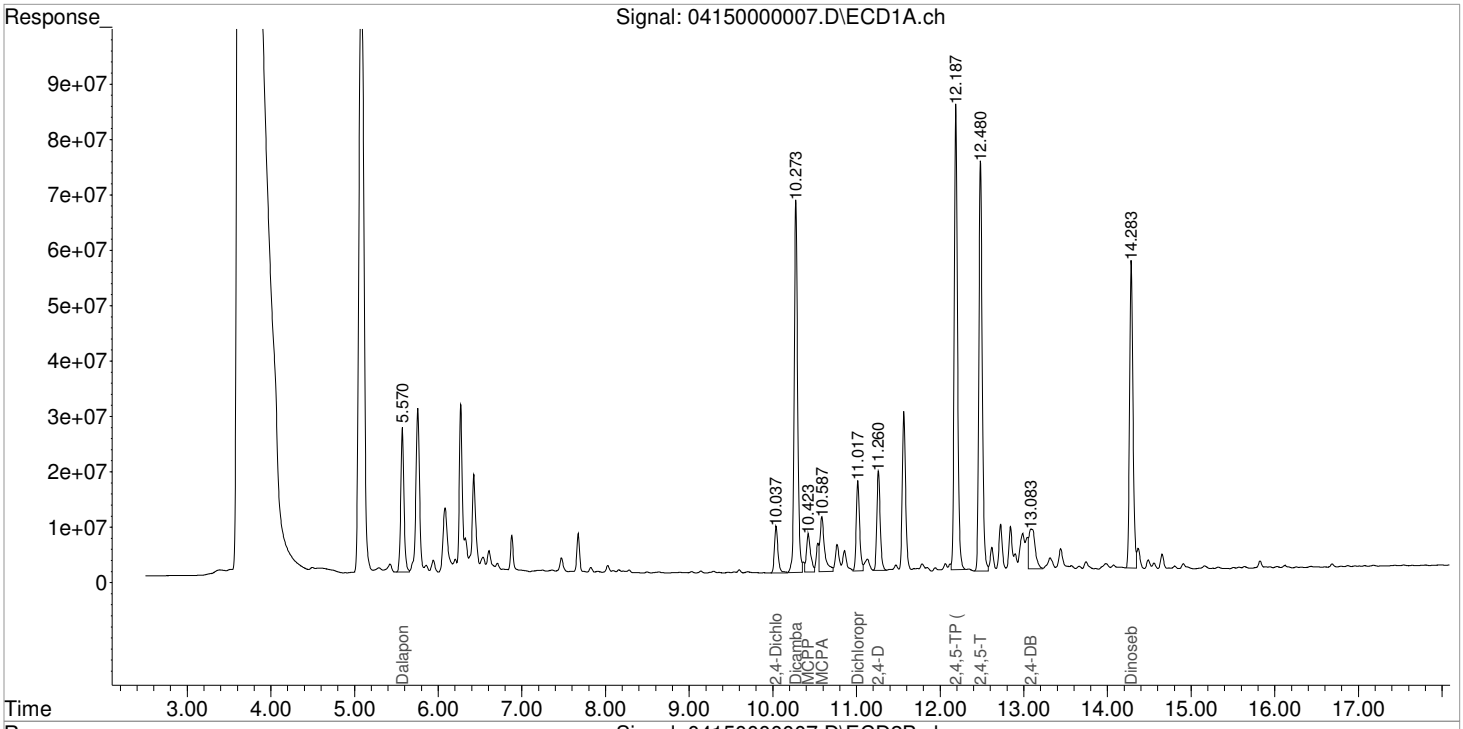
Quantitation Report (QT Reviewed)

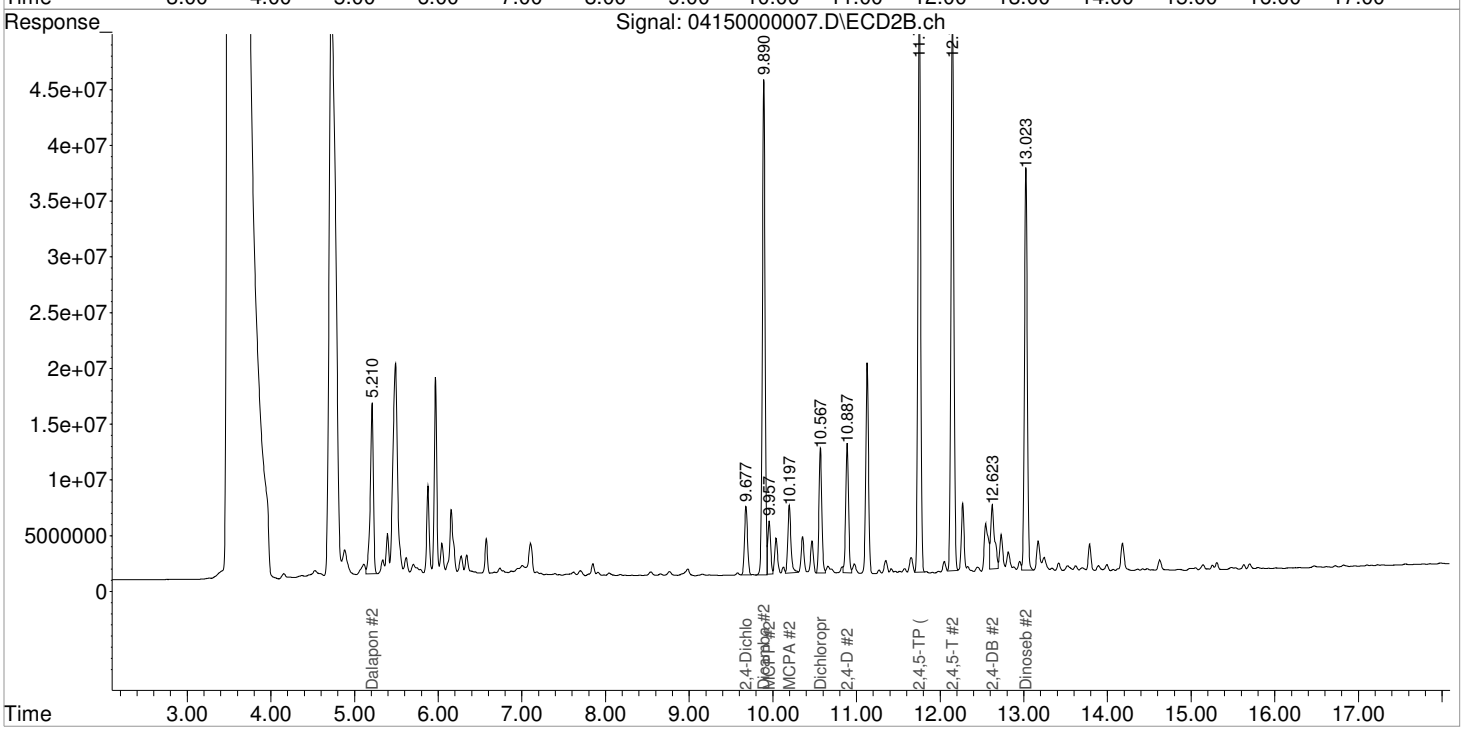
1st JTC 04/19/21
2nd 4W 04/20/21

Data File : J:\GC34\DATA\041521-HB\04150000007.D Vial: 5
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15-Apr-2021, 13:00:21 Operator: JTC
Sample : KQ2105302-02 DLCS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 19 15:56:56 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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



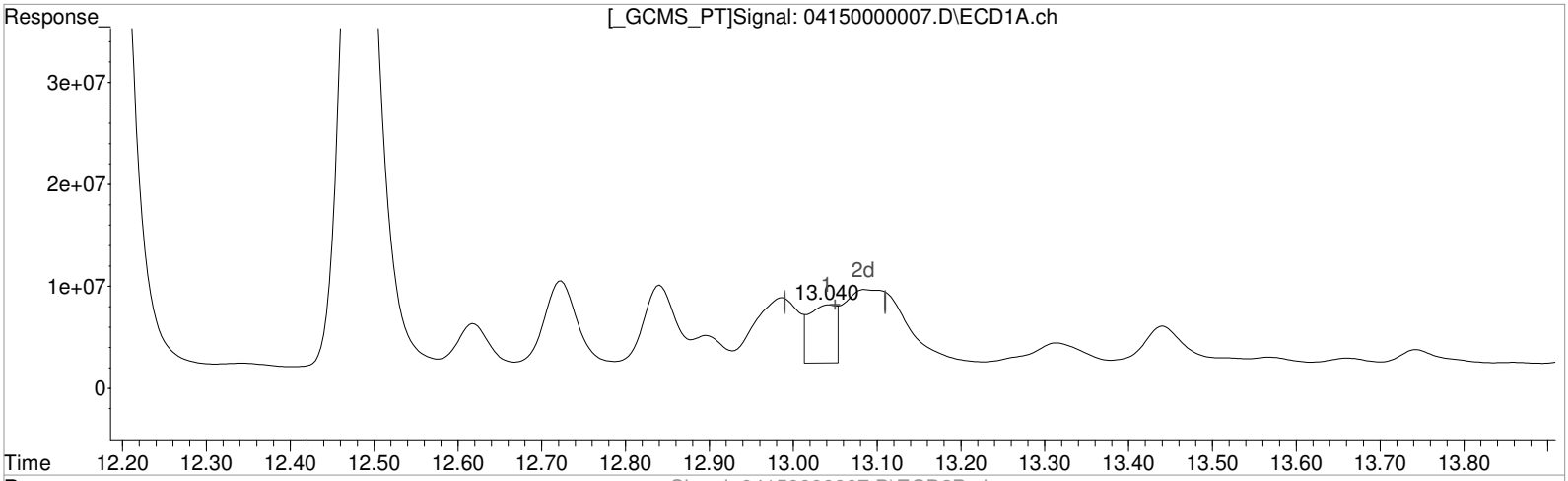


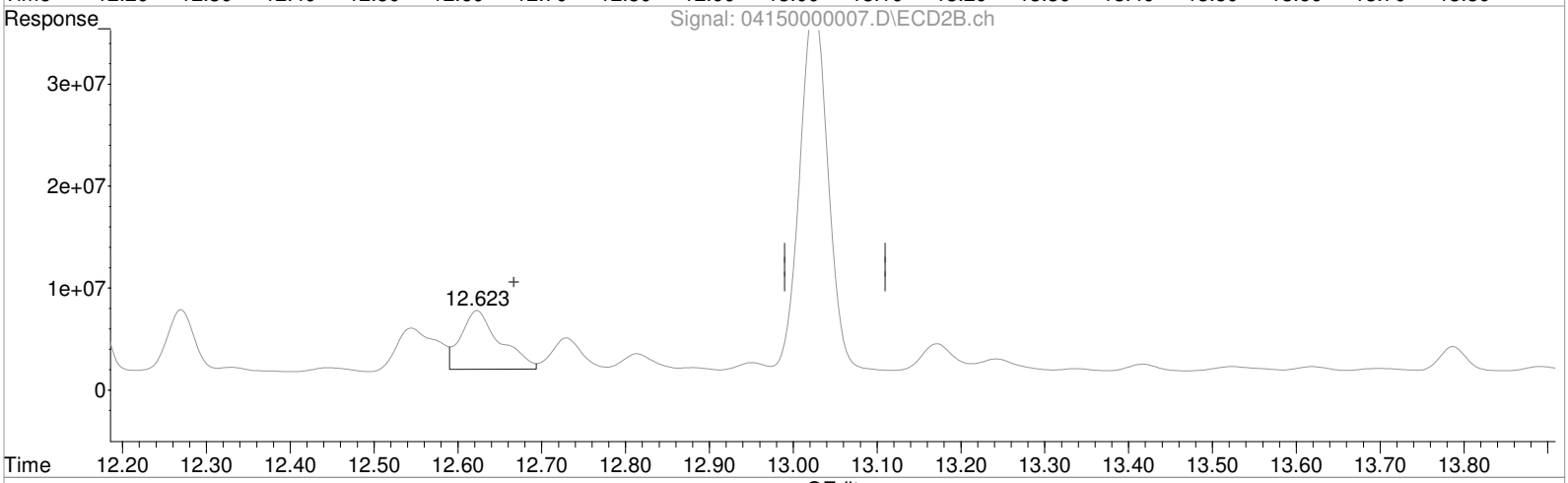
1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041521-HB\04150000007.D Vial: 5
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15-Apr-2021, 13:00:21 Operator: JTC
Sample : KQ2105302-02 DLCS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 19 15:55:10 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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

(10) 2,4-DB (m)

13.040min 38.469 ppb

response 12931669

Manual Integration:

Before

04/19/21

(10) 2,4-DB #2 (m)

12.623min 107.826 ppb

response 18516330

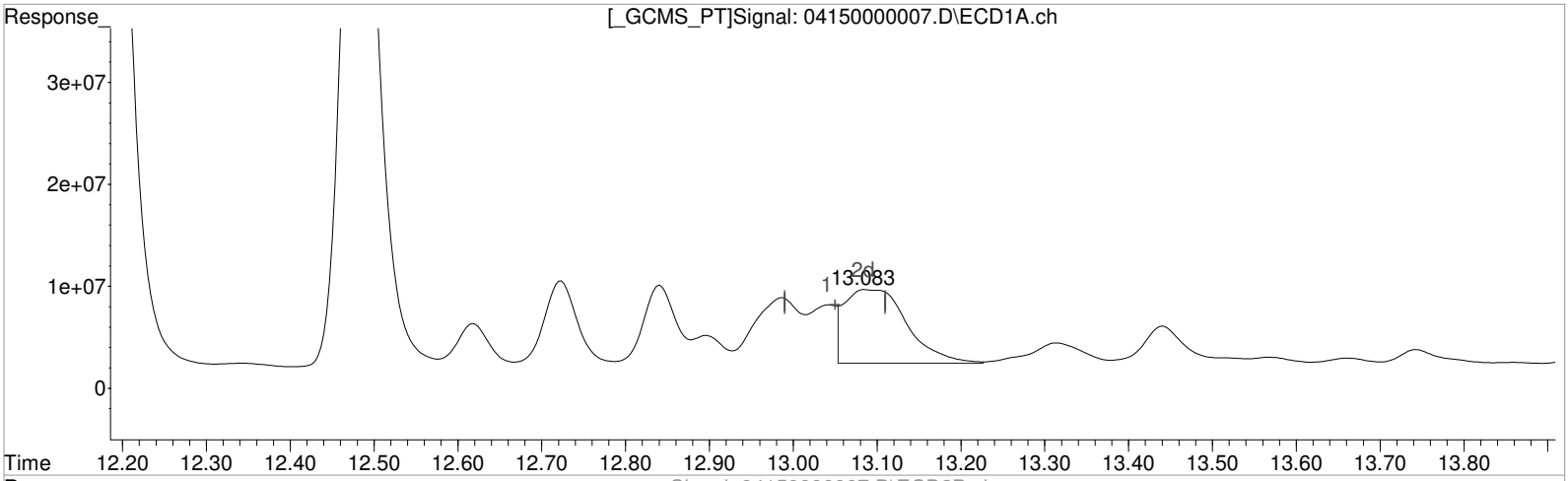
(+) = Expected Retention Time

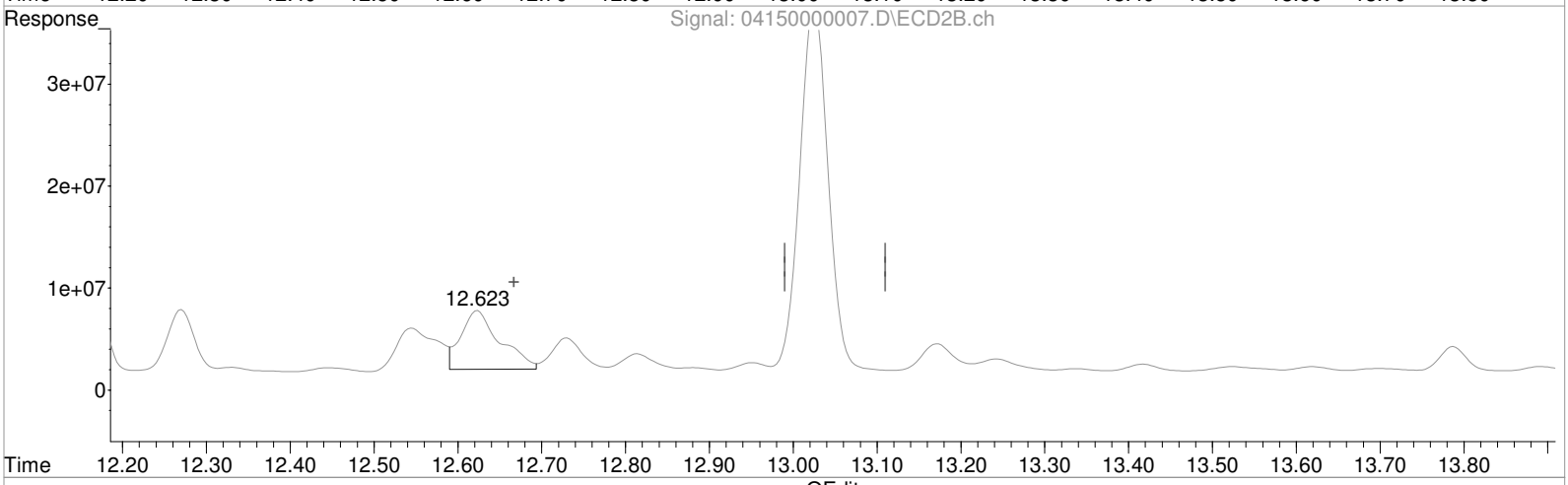
1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041521-HB\04150000007.D Vial: 5
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15-Apr-2021, 13:00:21 Operator: JTC
Sample : KQ2105302-02 DLCS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 19 15:55:10 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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

(10) 2,4-DB (m)

13.083min 109.939 ppb m

response 36956817

Manual Integration:

After

Baseline/Shoulder

04/19/21

(10) 2,4-DB #2 (m)

12.623min 107.826 ppb

response 18516330

(+) = Expected Retention Time

1st JTC 04/19/21
2nd 4w 04/20/21

Validation Report

Data File: J:\GC34\DATA\041421-HB\04140000007.D\
Lab ID: KQ2105891-02
RunType: DLCS
Matrix: Water

Date Acquired: 4/14/21 16:44:26
Batch ID: 719851
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: _____

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Secondary Review: _____

1st JTC 04/19/21
2nd 4w 04/20/21

Quantitation Report

Data File:	J:\GC34\DATA\041421-HB\04140000007.D\	**Instrument:**	K-GC-34
Acqu Date:	4/14/21 16:44:26	**Vial:**	9
Run Type:	DLCS	**Dilution:**	1
Lab ID:	KQ2105891-02	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Water
Prod Code:	HERB	**Collect Date:**	3/30/21	**Receive Date:**	3/31/21

Analysis Lot:	719851	**Prep Lot:**	377380	**Report Group:**	KQ2105891
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	4/13/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100209
		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	10.04	9.68	60193362	32207608	74.598	75.940	60	61	60	17 - 113	Y

Target Compounds

Final Conc.Units: ug/L

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	12.48	12.15	239009582	134072686	95.526	106.143	1.91	2.12	**1.91**		Y
2,4,5-TP (Silvex)	12.18 -0.01	11.75	266839826	134467835	87.003	84.883	1.74	1.70	**1.70**		Y
2,4-D	11.26	10.89	59323734	32415967	82.796	83.049	1.66	1.66	**1.66**		Y
2,4-DB	13.05	12.66 -0.01	55646467	12854210	165.536	74.854	3.31	1.50	**1.50**	P	Y
Dalapon	5.57 -0.01	5.21 -0.01	91059709	39882911	94.949	78.601	1.90	1.57	**1.57**		Y
Dicamba	10.27	9.89	219915781	116030011	85.650	85.487	1.71	1.71	**1.71**		Y
Dichlorprop	11.01	10.57	54834457	33826032	75.907	86.309	1.52	1.73	**1.52**		Y
Dinoseb	14.28	13.03	166692112	87632196	82.248	81.755	1.64	1.64	**1.64**		Y
MCPA	10.58 -0.01	10.20	41474156	19422969	7500.881	7217.656	150	144	**144**		Y
MCPP	10.42	9.96	26255982	13590389	7800.352	8252.853	156	165	**156**		Y

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	20.00 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 (QT Reviewed)

1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041421-HB\04140000007.D Vial: 5
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14-Apr-2021, 16:44:26 Operator: JTC
Sample : KQ2105891-02 DLCS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 19 15:44:08 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu Apr 15 16:33:50 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...	10.037	9.677	60193362	32207608	74.598	75.940	
		Target Compounds							
1)	m	Dalapon	5.573	5.213	91059709	39882911	94.949	78.601	
3)	m	Dicamba	10.273	9.890	219.9E6	116.0E6	85.650	85.487	
4)	m	MCPP	10.420	9.957	26255982	13590389	7800.352	8252.853	
5)	m	MCPA	10.583	10.197	41474156	19422969	7500.881	7217.656	
6)	m	Dichloroprop	11.013	10.567	54834457	33826032	75.907	86.309	
7)	m	2,4-D	11.260	10.887	59323734	32415967	82.796	83.049	
8)	m	2,4,5-TP ...	12.183	11.750	266.8E6	134.5E6	87.003	84.883	
9)	m	2,4,5-T	12.480	12.147	239.0E6	134.1E6	95.526	106.143	
10)	m	2,4-DB	13.047	12.663	55646467	12854210	165.536	74.854	#
11)	m	Dinoseb	14.280	13.027	166.7E6	87632196	82.248	81.755	

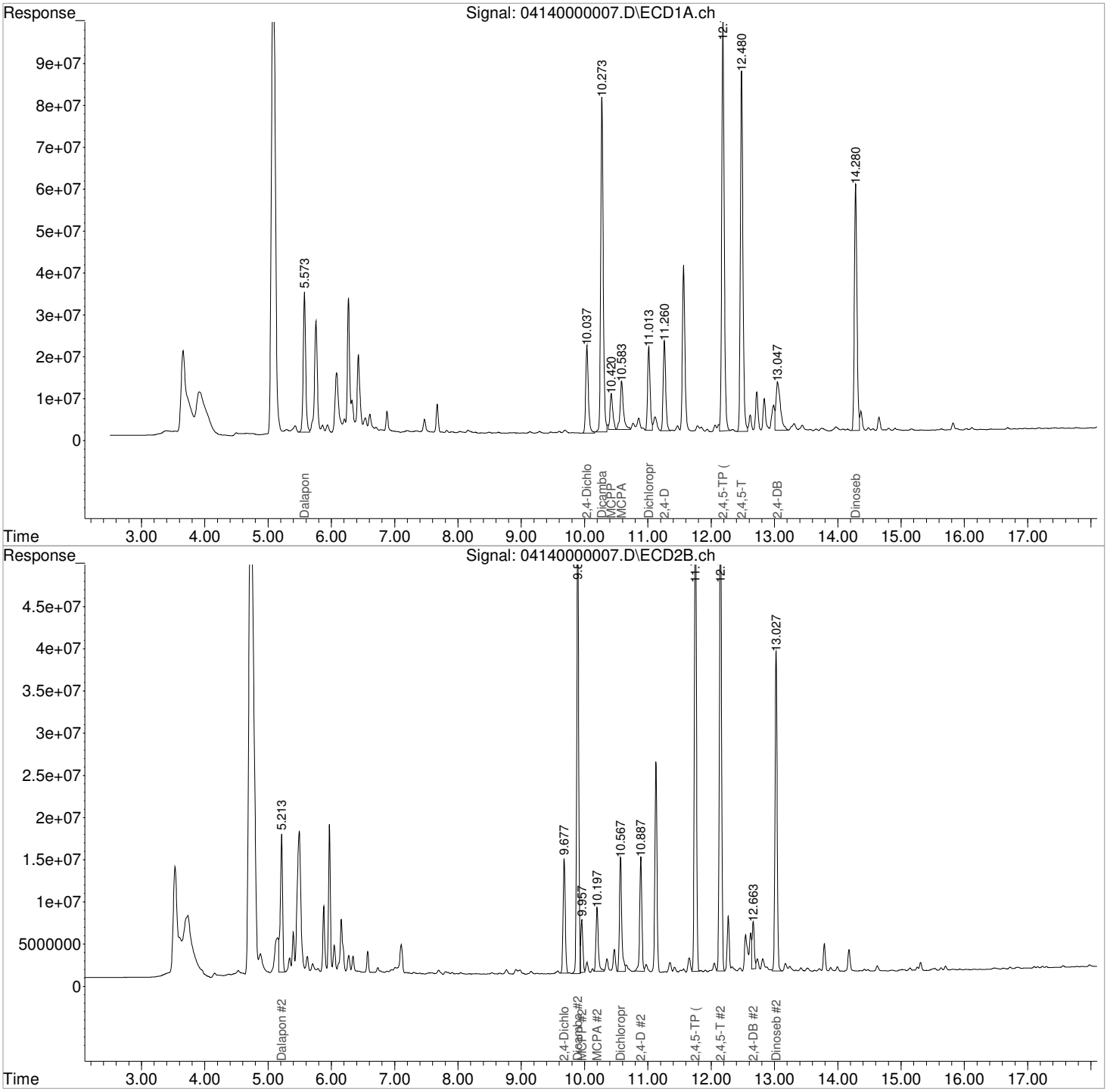
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041421-HB\04140000007.D Vial: 5
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14-Apr-2021, 16:44:26 Operator: JTC
Sample : KQ2105891-02 DLCS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 19 15:44:08 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu Apr 15 16:33:50 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



1st JTC 04/16/21
2nd 4w 04/16/21

Validation Report

Data File: J:\GC34\DATA\040821-HB\04080000025.D\
Lab ID: KQ2105127-01
RunType: MS
Matrix: Soil

Date Acquired: 4/9/21 01:08:32
Batch ID: 719207
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: _____

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Secondary Review: _____

1st JTC 04/16/21
2nd 4w 04/16/21

Quantitation Report

Data File:	J:\GC34\DATA\040821-HB\04080000025.D\	**Instrument:**	K-GC-34
Acqu Date:	4/9/21 01:08:32	**Vial:**	7
Run Type:	MS	**Dilution:**	1
Lab ID:	KQ2105127-01	**Raw Units:**	ppb

Bottle ID:	K2103235-004.01	**Tier:**	IV	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	3/30/21	**Receive Date:**	3/31/21

Analysis Lot:	719207	**Prep Lot:**	376743	**Report Group:**	KQ2105127
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	4/2/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100194
		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	11.01	9.48	82907455	30861641	80.862	75.945	81	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-T	13.72	12.05	435044269	108498400	95.626	87.339	199	181	**181**		Y
2,4,5-TP (Silvex)	13.34	11.50	431324245	115623887	89.300	77.239	186	161	**161**		Y
2,4-D	12.27	10.94	102997608	54287591	87.714	69.155	182	144	**144**		Y
2,4-DB	14.32	12.55	48215924	17218273	70.415	99.878	146	208	**146**		Y
Dalapon	5.69	4.84	63456926	16976538	62.478	33.759	130	70.2	**70.2**	P	Y
Dicamba	11.14	9.66	289071770	107161314	95.635	79.956	199	166	**166**		Y
Dichlorprop	11.97	10.75	82846836	29119807	86.642	73.978	180	154	**154**		Y
Dinoseb	14.47	12.43	199113718	53509641	60.109	53.334	125	111	**111**		Y
MCPA	11.55	10.30	72568864	29565948	10938.175	7376.628	22700	15300	**15300**		Y
MCPP	11.30	10.01	44032765	16690493	11450.047	6127.789	23800	12700	**12700**	P	Y

Prep Amount:	30.5730 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	78.70

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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Quantitation Report (QT Reviewed)

1st JTC 04/16/21
2nd 4w 04/16/21

Data File : J:\GC34\DATA\040821-HB\04080000025.D Vial: 19
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-Apr-2021, 01:08:32 Operator: JTC
Sample : K2103235-004 MS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 09 14:17:08 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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...	11.010	9.477	82907455	30861641	80.862	75.945	
		Target Compounds							
1)	m	Dalapon	5.687	4.840	63456926	16976538	62.478	33.759	m#
3)	m	Dicamba	11.140	9.660	289.1E6	107.2E6	95.635	79.956	
4)	m	MCPP	11.297	10.010	44032765	16690493	11450.047	6127.789	#
5)	m	MCPA	11.550	10.303	72568864	29565948	10938.175	7376.628	#
6)	m	Dichloroprop	11.970	10.747	82846836	29119807	86.642	73.978	
7)	m	2,4-D	12.270	10.937	103.0E6	54287591	87.714	69.155	
8)	m	2,4,5-TP ...	13.337	11.503	431.3E6	115.6E6	89.300	77.239	
9)	m	2,4,5-T	13.717	12.047	435.0E6	108.5E6	95.626	87.339	
10)	m	2,4-DB	14.317	12.547	48215924	17218273	70.415	99.878	#
11)	m	Dinoseb	14.467	12.433	199.1E6	53509641	60.109	53.334	

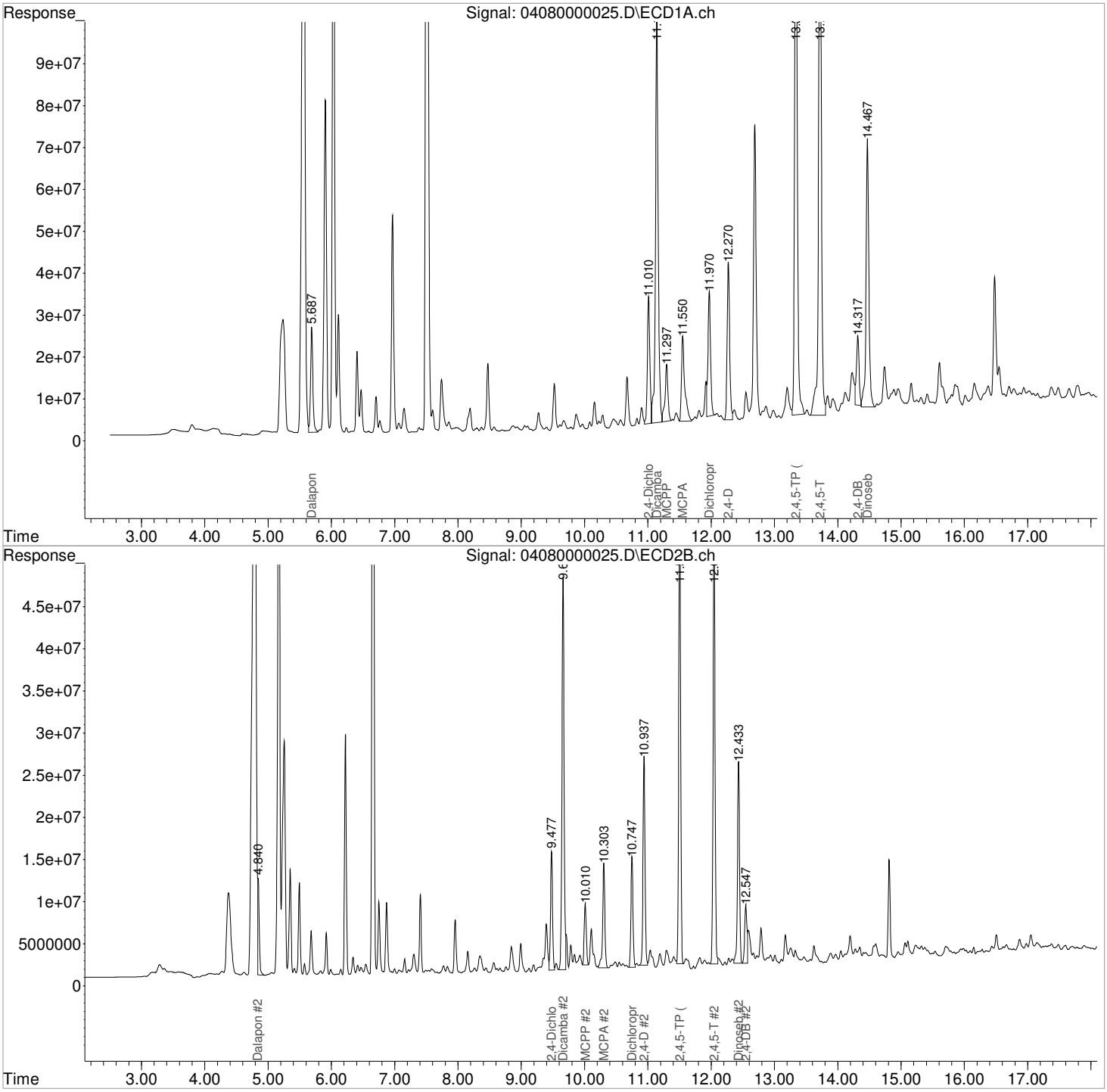
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

1st JTC 04/16/21
2nd 4w 04/16/21

Data File : J:\GC34\DATA\040821-HB\04080000025.D Vial: 19
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-Apr-2021, 01:08:32 Operator: JTC
Sample : K2103235-004 MS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 09 14:17:08 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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



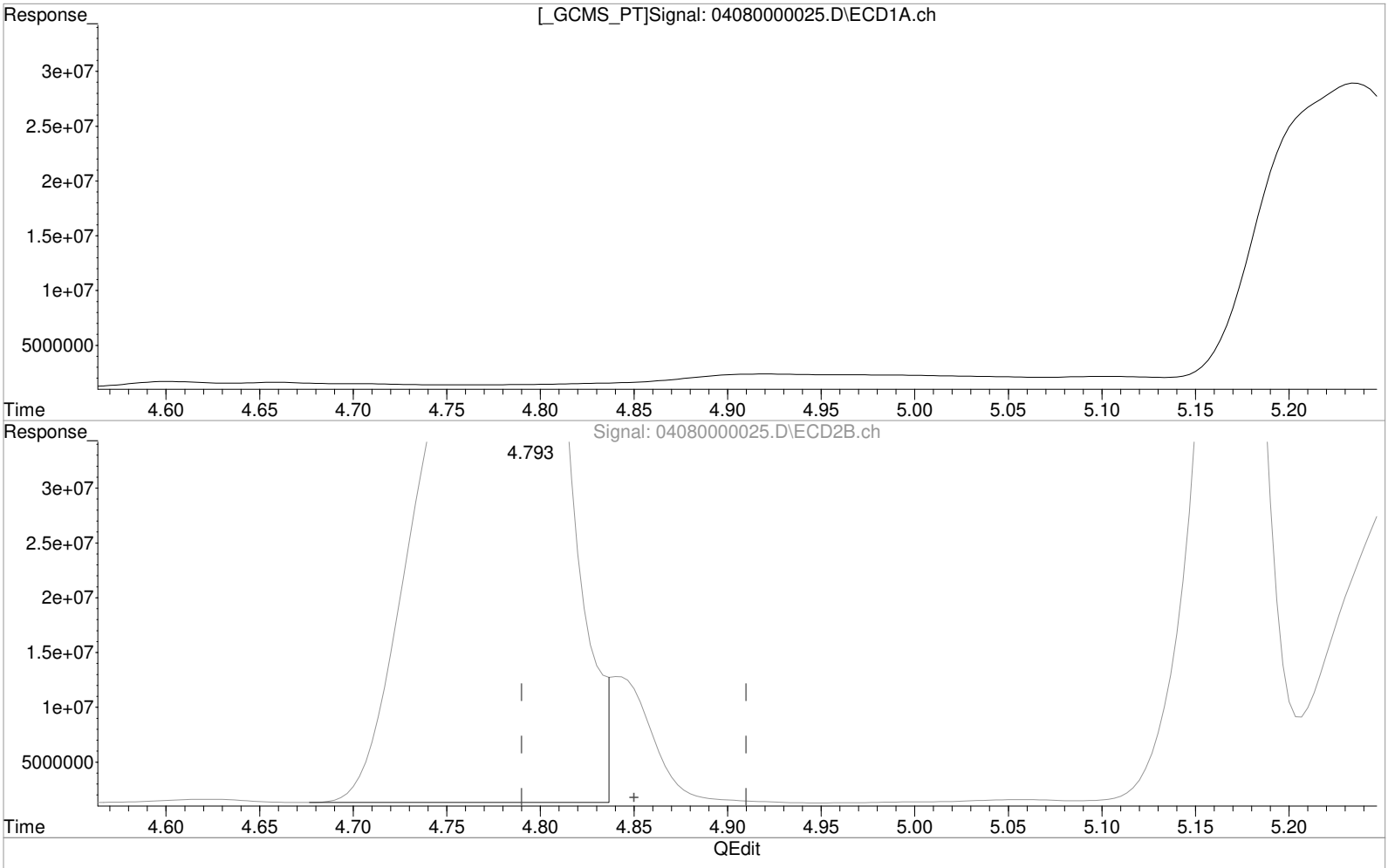
Quantitation Report (Qedit)

1st JTC 04/16/21
2nd 04/16/21

Data File : J:\GC34\DATA\040821-HB\04080000025.D Vial: 19
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-Apr-2021, 01:08:32 Operator: JTC
Sample : K2103235-004 MS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 09 09:08:38 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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



(1) Dalapon (m)

5.687min 62.478 ppb

response 63456926

Manual Integration:

Before

04/09/21

(1) Dalapon #2 (m)

4.793min 637.271 ppb

response 320465222

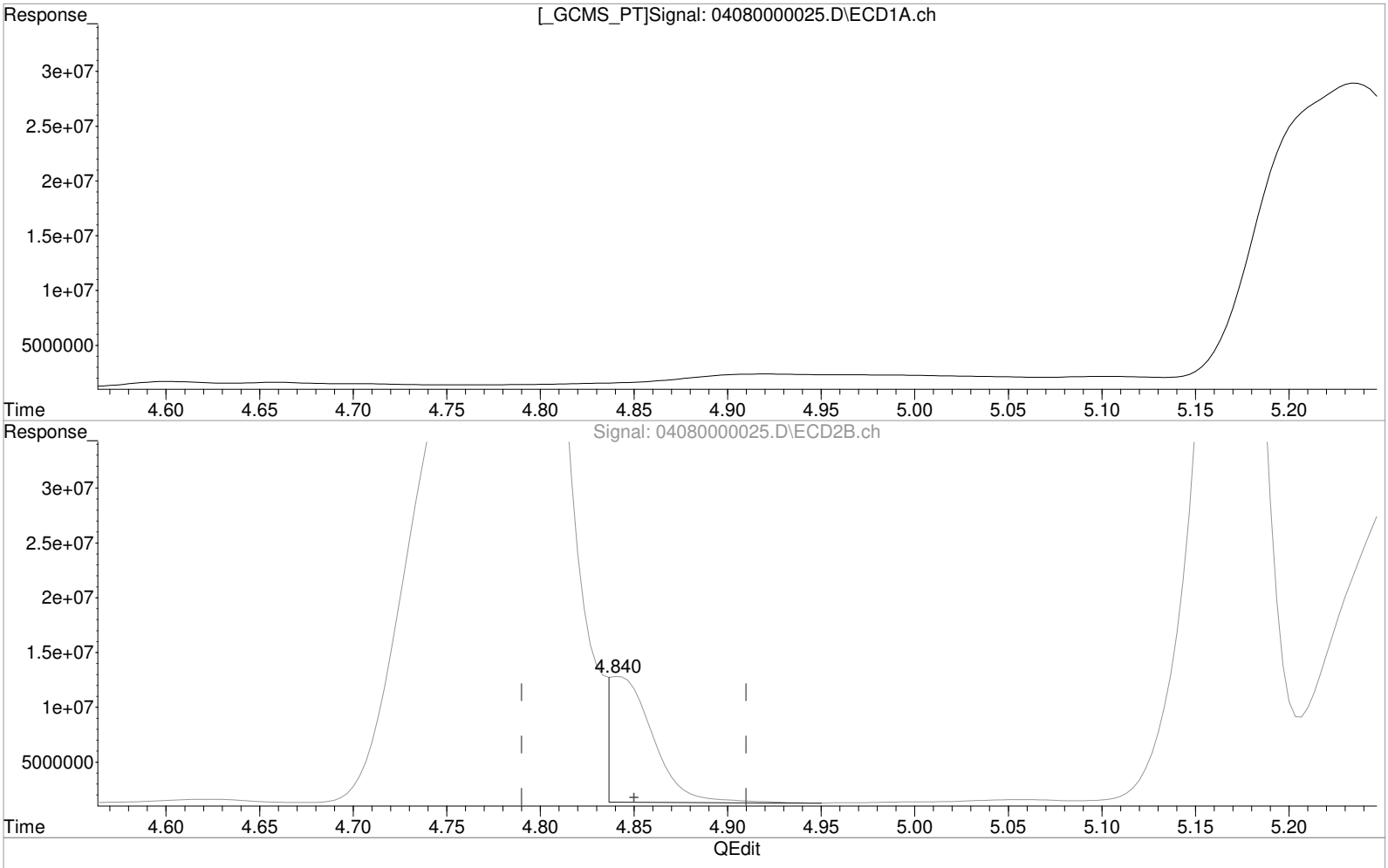
(+) = Expected Retention Time

1st JTC 04/16/21
2nd 4w 04/16/21

Data File : J:\GC34\DATA\040821-HB\04080000025.D Vial: 19
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-Apr-2021, 01:08:32 Operator: JTC
Sample : K2103235-004 MS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 09 09:08:38 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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



(1) Dalapon (m)

5.687min 62.478 ppb

response 63456926

Manual Integration:

After

Baseline/Shoulder

04/09/21

(1) Dalapon #2 (m)

4.840min 33.759 ppb m

response 16976538

(+) = Expected Retention Time

1st JTC 04/16/21
2nd 4w 04/16/21

Validation Report

Data File: J:\GC34\DATA\040821-HB\04080000026.D\
Lab ID: KQ2105127-02
RunType: DMS
Matrix: Soil

Date Acquired: 4/9/21 01:32:14
Batch ID: 719207
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: _____

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Secondary Review: _____

1st JTC 04/16/21
2nd 4w 04/16/21

Quantitation Report

Data File:	J:\GC34\DATA\040821-HB\04080000026.D\	**Instrument:**	K-GC-34
Acqu Date:	4/9/21 01:32:14	**Vial:**	8
Run Type:	DMS	**Dilution:**	1
Lab ID:	KQ2105127-02	**Raw Units:**	ppb

Bottle ID:	K2103235-004.01	**Tier:**	IV	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	3/30/21	**Receive Date:**	3/31/21

Analysis Lot:	719207	**Prep Lot:**	376743	**Report Group:**	KQ2105127
Analysis Method:	8151A	**Prep Method:**	Method		
		Prep Date:	4/2/21		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100194
		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	11.01	9.48	84629556	29008806	82.542	71.385	83	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-T	13.72	12.04 -0.01	401514675	111697831	88.256	89.915	182	185	**182**		Y
2,4,5-TP (Silvex)	13.34	11.50	435345527	118799675	90.132	79.361	186	164	**164**		Y
2,4-D	12.27	10.94	102899437	54936792	87.630	69.982	181	144	**144**		Y
2,4-DB	14.32	12.55	44700798	20285230	65.282	117.668	135	243	**135**	P	Y
Dalapon	5.69	4.84	70631391	17072204	69.541	33.949	143	70.0	**70.0**	P	Y
Dicamba	11.14	9.66	292287103	109318251	96.699	81.566	199	168	**168**		Y
Dichlorprop	11.97	10.75	83905427	29731218	87.749	75.531	181	156	**156**		Y
Dinoseb	14.47	12.43	192770356	51924013	58.194	51.754	120	107	**107**		Y
MCPA	11.55	10.30	74569141	30427491	11251.346	7591.580	23200	15600	**15600**		Y
MCPP	11.30	10.01	53590261	17316548	14144.934	6394.868	29200	13200	**13200**	P	Y

Prep Amount:	30.8210 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	78.70

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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Quantitation Report (QT Reviewed)

1st JTC 04/16/21
2nd 4w 04/16/21

Data File : J:\GC34\DATA\040821-HB\04080000026.D Vial: 20
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-Apr-2021, 01:32:14 Operator: JTC
Sample : K2103235-004 DMS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 09 14:17:38 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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...	11.010	9.477	84629556	29008806	82.542	71.385	
		Target Compounds							
1)	m	Dalapon	5.687	4.840	70631391	17072204	69.541	33.949	m#
3)	m	Dicamba	11.140	9.660	292.3E6	109.3E6	96.699	81.566	
4)	m	MCPP	11.297	10.010	53590261	17316548	14144.934	6394.868	#
5)	m	MCPA	11.550	10.303	74569141	30427491	11251.346	7591.580	#
6)	m	Dichloroprop	11.970	10.747	83905427	29731218	87.749	75.531	
7)	m	2,4-D	12.270	10.940	102.9E6	54936792	87.630	69.982	
8)	m	2,4,5-TP ...	13.337	11.503	435.3E6	118.8E6	90.132	79.361	
9)	m	2,4,5-T	13.717	12.043	401.5E6	111.7E6	88.256	89.915	
10)	m	2,4-DB	14.317	12.547	44700798	20285230	65.282	117.668	#
11)	m	Dinoseb	14.467	12.433	192.8E6	51924013	58.194	51.754	

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

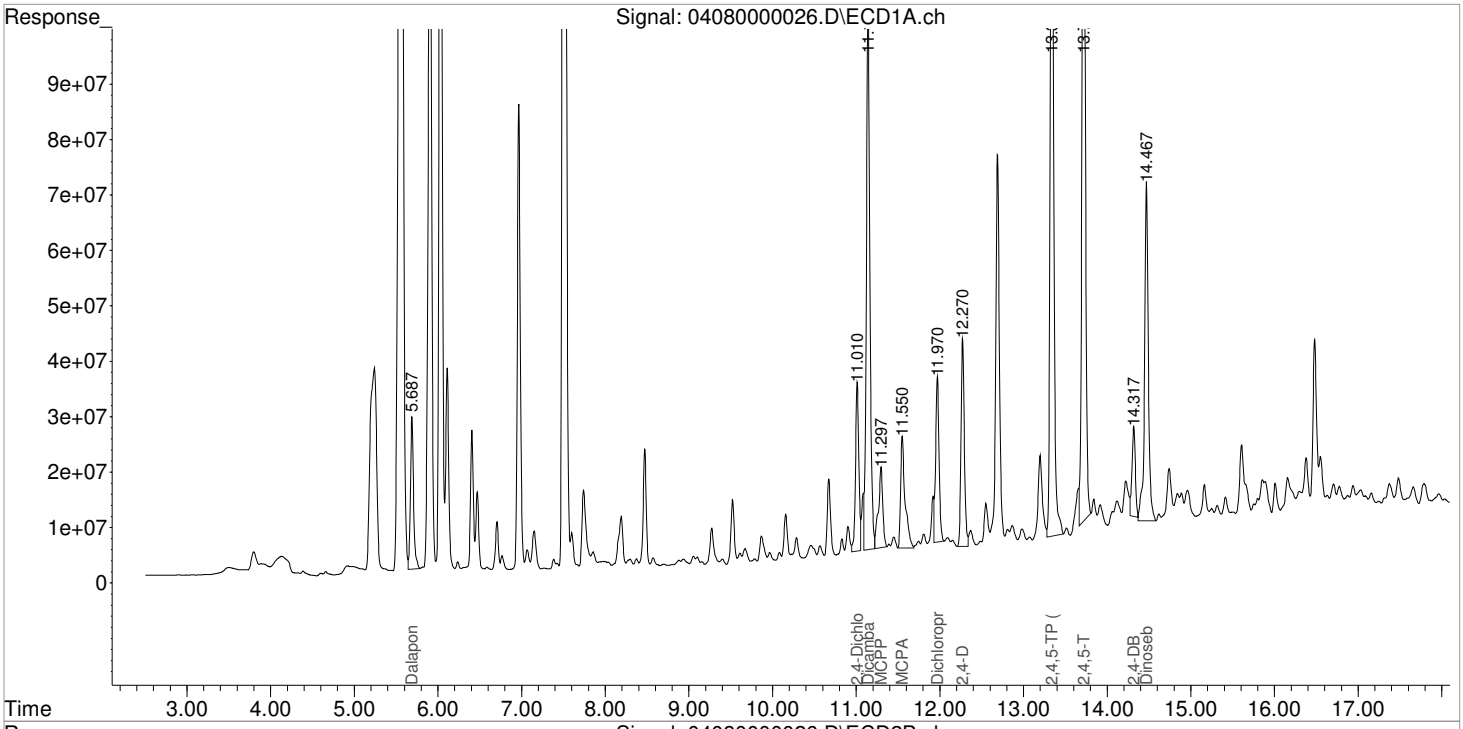
Quantitation Report (QT Reviewed)

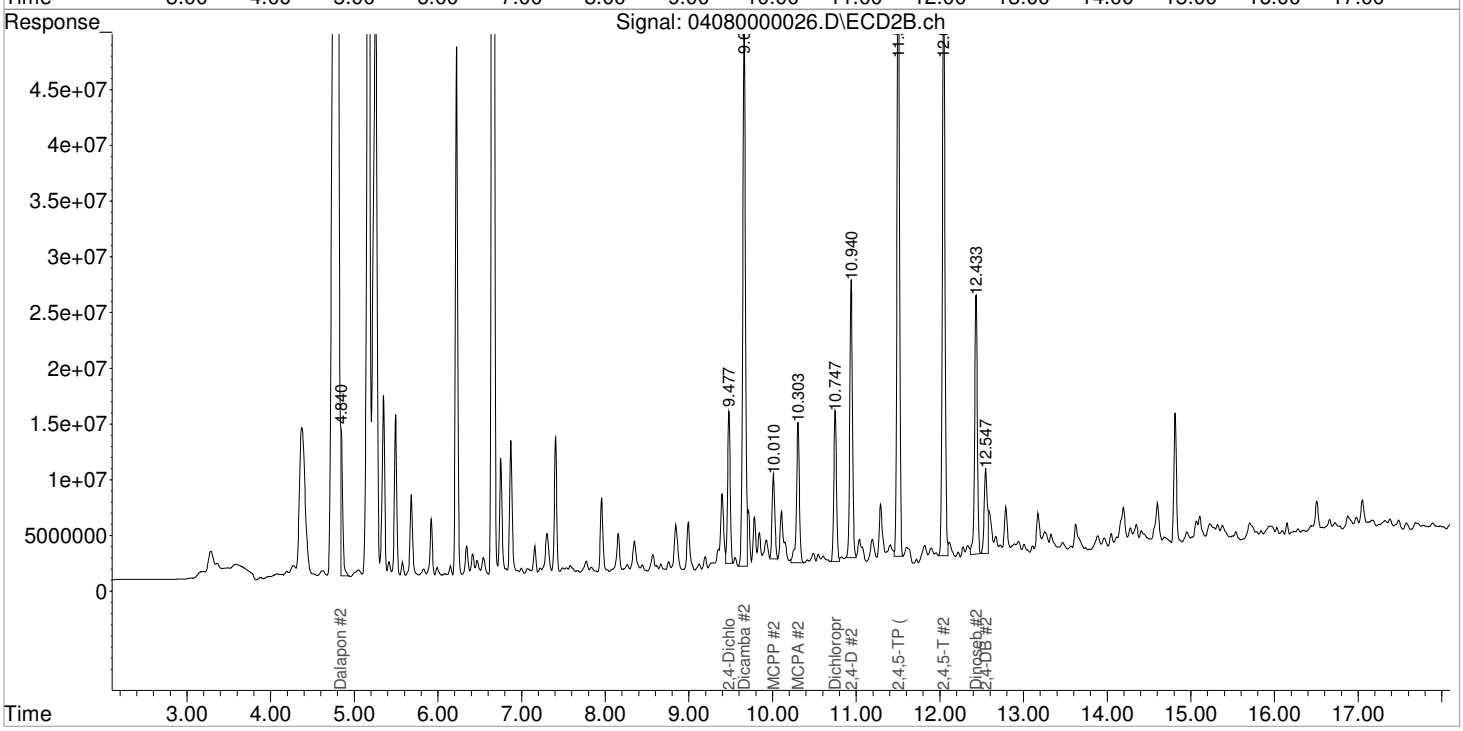
1st JTC 04/16/21
2nd 4w 04/16/21

Data File : J:\GC34\DATA\040821-HB\04080000026.D Vial: 20
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-Apr-2021, 01:32:14 Operator: JTC
Sample : K2103235-004 DMS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 09 14:17:38 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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



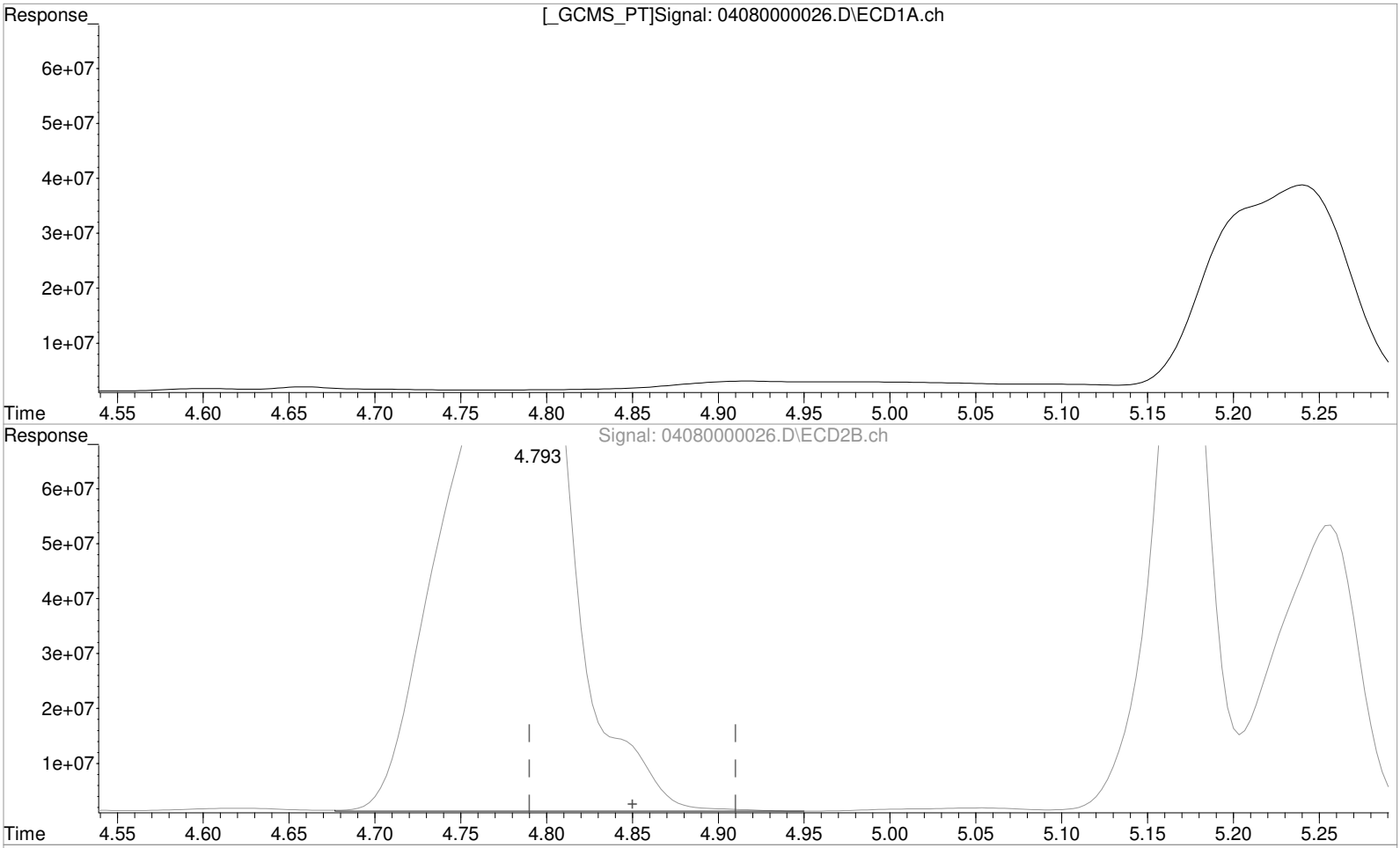


1st JTC 04/16/21
2nd 04/16/21

Data File : J:\GC34\DATA\040821-HB\04080000026.D Vial: 20
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-Apr-2021, 01:32:14 Operator: JTC
Sample : K2103235-004 DMS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 09 09:08:41 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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

(1) Dalapon (m)

5.687min 69.541 ppb

response 70631391

(1) Dalapon #2 (m)

4.793min 1015.231 ppb

response 510530579

Manual Integration:

Before

04/09/21

(+) = Expected Retention Time

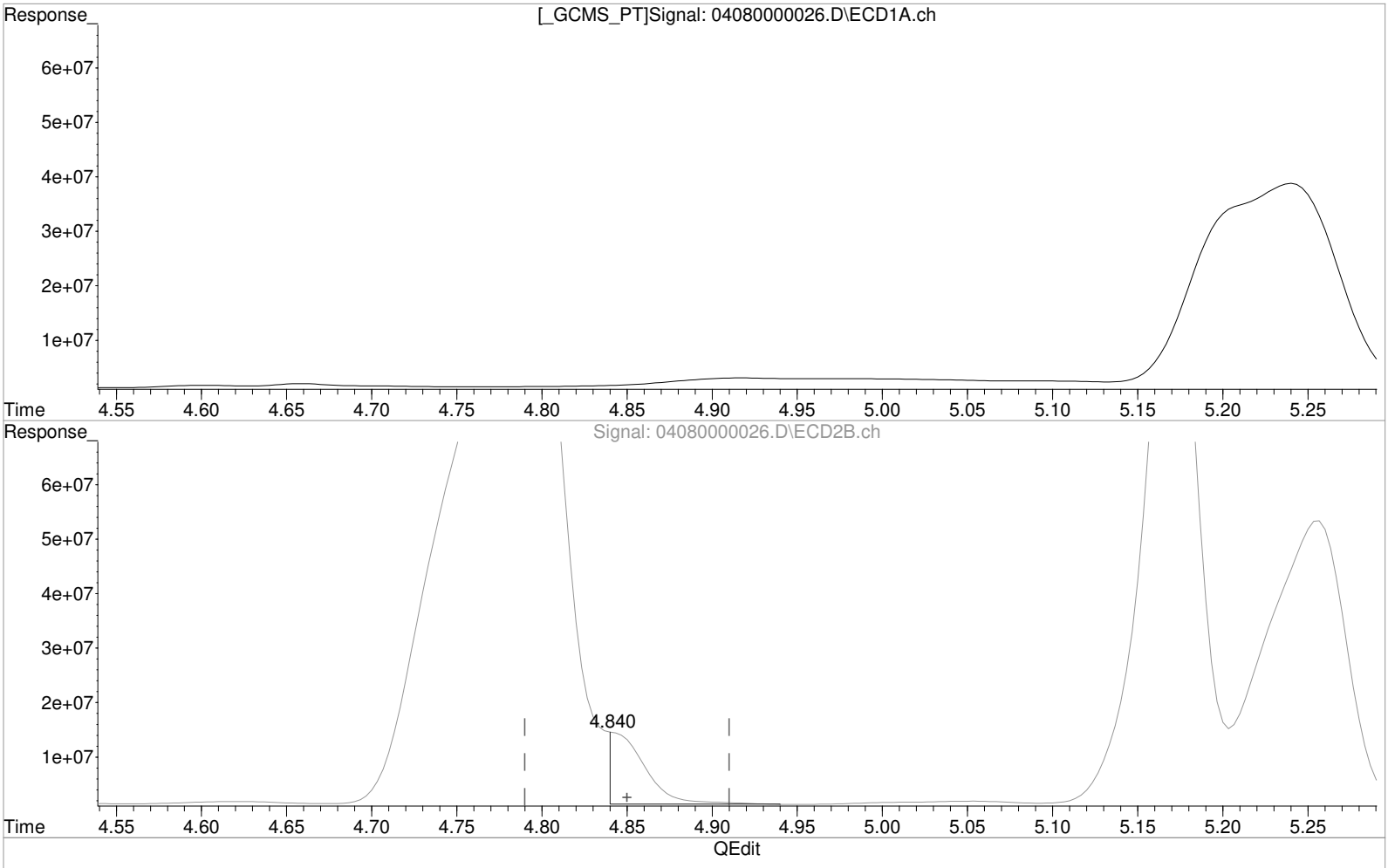
Quantitation Report (Qedit)

1st JTC 04/16/21
2nd 4w 04/16/21

Data File : J:\GC34\DATA\040821-HB\04080000026.D Vial: 20
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-Apr-2021, 01:32:14 Operator: JTC
Sample : K2103235-004 DMS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 09 09:08:41 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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



(1) Dalapon (m)

5.687min 69.541 ppb

response 70631391

Manual Integration:

After

Baseline/Shoulder

04/09/21

(1) Dalapon #2 (m)

4.840min 33.949 ppb m

response 17072204

(+) = Expected Retention Time

1st JTC 04/16/21
2nd 4w 04/16/21

Validation Report

Data File: J:\GC34\DATA\040821-HB\04080000022.D\
Lab ID: KQ2105724-04
RunType: CCB
Matrix: Soil

Date Acquired: 4/8/21 23:57:04
Batch ID: 719207
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: _____

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Secondary Review: _____

1st JTC 04/16/21
2nd 4w 04/16/21

Quantitation Report

Data File:	J:\GC34\DATA\040821-HB\04080000022.D\	**Instrument:**	K-GC-34
Acqu Date:	4/8/21 23:57:04	**Vial:**	2
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2105724-04	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	3/30/21	**Receive Date:**	3/31/21

Analysis Lot:	719207	**Prep Lot:**		**Report Group:**	KQ2105724
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100194
		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	11.05 +0.04	0.00	277952	0	0.271	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	11.56 +0.06	0	71995	0.000	0.048	0U	0.080U	2.4 U	Y
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	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	30001	0.000	0.060	0U	0.10U	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	12.46 +0.03	0	87787	0.000	0.087	0U	0.15U	2.7 U	Y
MCPA	0.00	10.26 -0.04	0	714964	0.000	178.382	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 (QT Reviewed)

1st JTC 04/16/21
2nd 4w 04/16/21

Data File : J:\GC34\DATA\040821-HB\04080000022.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08-Apr-2021, 23:57:04 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 09 08:17:07 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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...	11.047	0.000	277952	0	0.271	N.D.	#
		Target Compounds							
1)	m	Dalapon	0.000	4.883f	0	30001	N.D.	0.060	#
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	10.257f	0	714964	N.D.	178.382	#
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D.	
7)	m	2,4-D	0.000	0.000	0	0	N.D.	N.D.	
8)	m	2,4,5-TP ...	0.000	11.560f	0	71995	N.D.	0.048	#
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	12.463	0	87787	N.D.	0.087	#

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

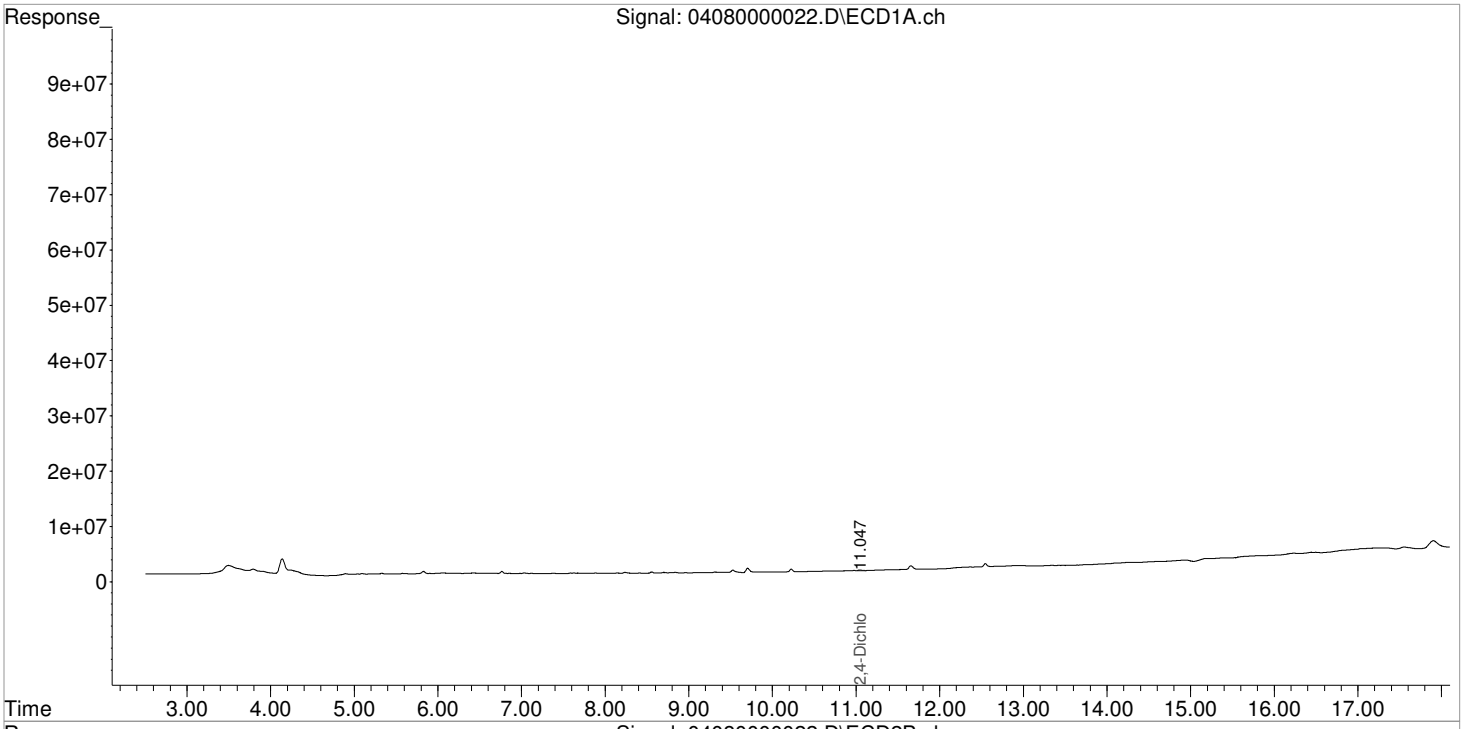
Quantitation Report (QT Reviewed)

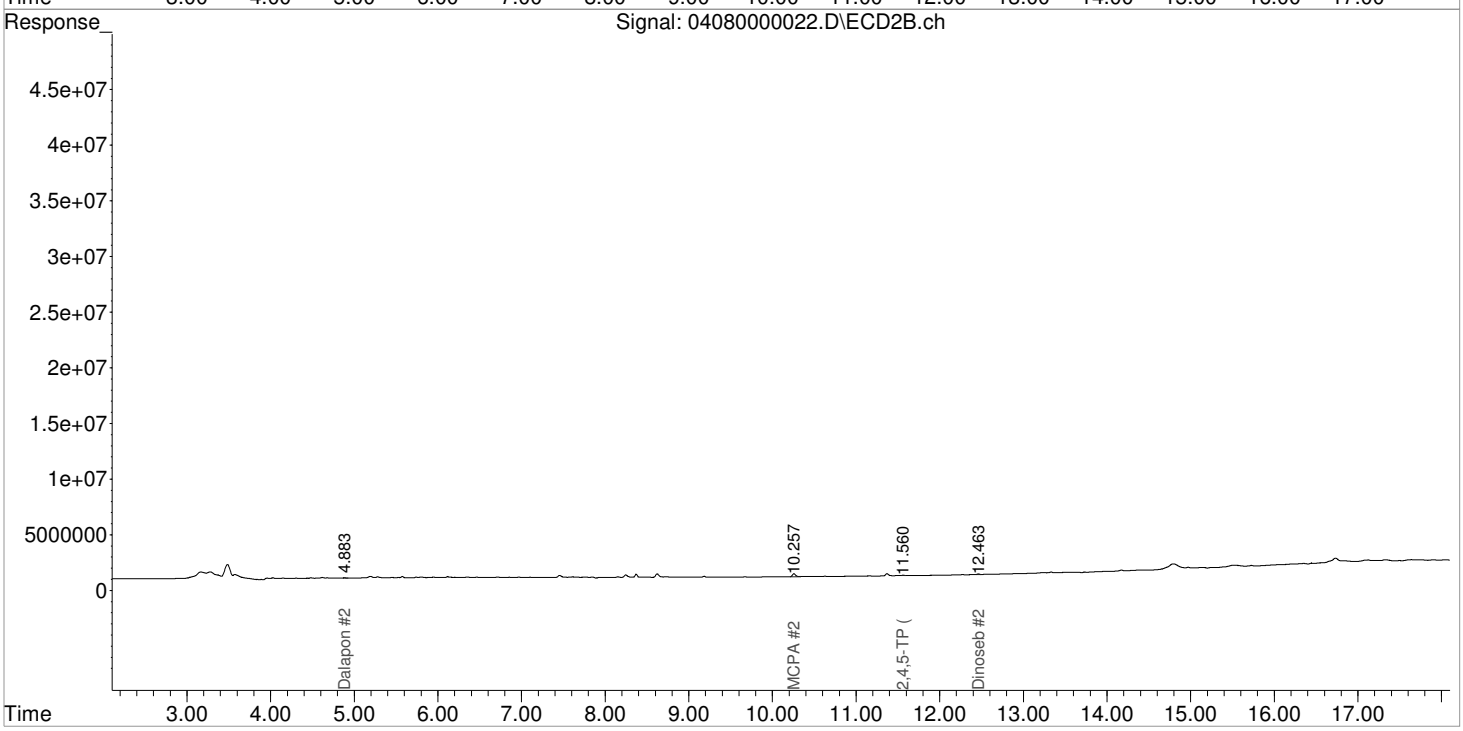
1st JTC 04/16/21
2nd 4w 04/16/21

Data File : J:\GC34\DATA\040821-HB\04080000022.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08-Apr-2021, 23:57:04 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 09 08:17:07 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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





1st JTC 04/16/21
2nd [illegible] 04/16/21

Validation Report

Data File: J:\GC34\DATA\040821-HB\04080000036.D\
Lab ID: KQ2105724-06
RunType: CCB
Matrix: Soil

Date Acquired: 4/9/21 05:30:28
Batch ID: 719207
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: _____

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Secondary Review: _____

1st JTC 04/16/21
2nd 4w 04/16/21

Quantitation Report

Data File:	J:\GC34\DATA\040821-HB\04080000036.D\	**Instrument:**	K-GC-34
Acqu Date:	4/9/21 05:30:28	**Vial:**	4
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2105724-06	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	3/30/21	**Receive Date:**	3/31/21

Analysis Lot:	719207	**Prep Lot:**		**Report Group:**	KQ2105724
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100194
		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	11.05 +0.04	0.00	278232	0	0.271	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	0.00	0	0	0.000	0.000	0U	0U	7.7 U	Y
2,4-DB	0.00	0.00	0	0	0.000	0.000	0U	0U	5.4 U	Y
Dalapon	5.68 -0.01	4.88 +0.04	16310	22783	0.016	0.045	0.027U	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	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	10.26 -0.04	0	750090	0.000	187.146	0U	310U	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 (QT Reviewed)

1st JTC 04/16/21
2nd 4w 04/16/21

Data File : J:\GC34\DATA\040821-HB\04080000036.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-Apr-2021, 05:30:28 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 09 08:17:15 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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...	11.050f	0.000	278232	0	0.271	N.D.	#
		Target Compounds							
1)	m	Dalapon	5.683	4.883f	16310	22783	0.016	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	10.260f	0	750090	N.D.	187.146	#
6)	m	Dichloroprop	0.000	0.000	0	0	N.D.	N.D.	
7)	m	2,4-D	0.000	0.000	0	0	N.D.	N.D.	
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.

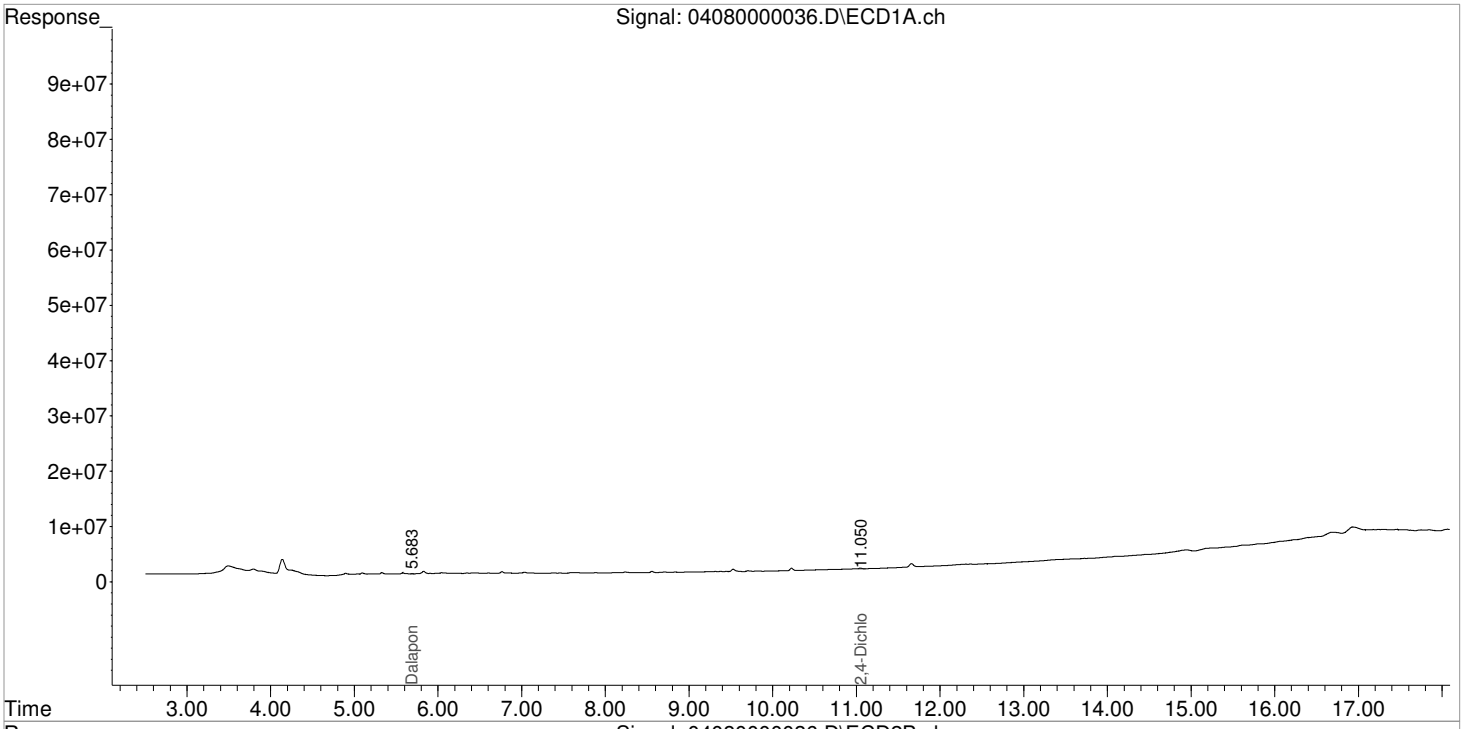
Quantitation Report (QT Reviewed)

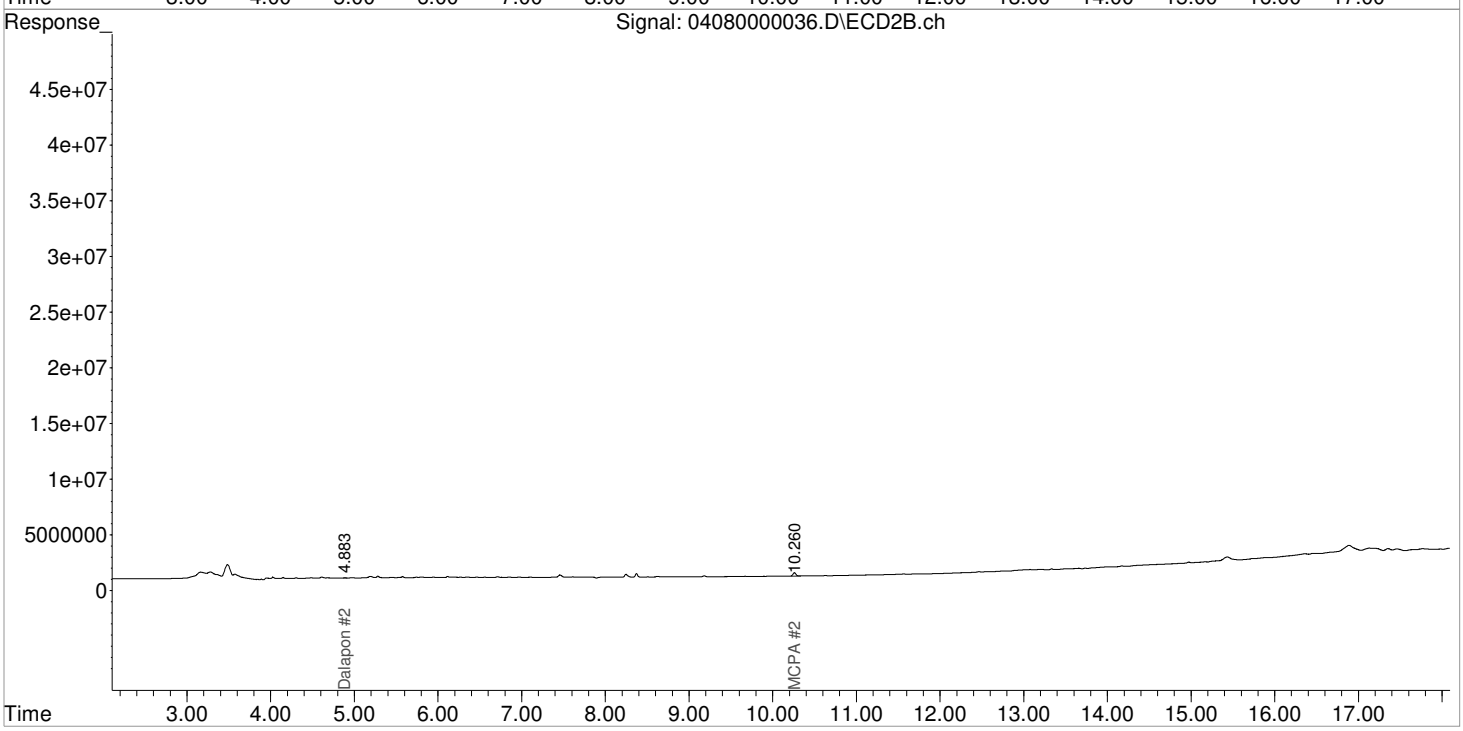
1st JTC 04/16/21
2nd 4w 04/16/21

Data File : J:\GC34\DATA\040821-HB\04080000036.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-Apr-2021, 05:30:28 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 09 08:17:15 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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





1st JTC 04/19/21
2nd 4w 04/20/21

Validation Report

Data File: J:\GC34\DATA\041421-HB\04140000004.D\
Lab ID: KQ2106070-02
RunType: CCB
Matrix: Water

Date Acquired: 4/14/21 15:31:46
Batch ID: 719851
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: _____

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Secondary Review: _____

1st JTC 04/19/21
2nd 4w 04/20/21

Quantitation Report

Data File:	J:\GC34\DATA\041421-HB\04140000004.D\	**Instrument:**	K-GC-34
Acqu Date:	4/14/21 15:31:46	**Vial:**	2
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2106070-02	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Water
Prod Code:	HERB	**Collect Date:**	3/30/21	**Receive Date:**	3/31/21

Analysis Lot:	719851	**Prep Lot:**		**Report Group:**	KQ2106070
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100209
		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				17 - 113	Y

Target Compounds

Final Conc.Units: ug/L

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	0.033 U	Y
2,4,5-TP (Silvex)	0.00	0.00	0	0	0.000	0.000	0U	0U	0.045 U	Y
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	0.036 U	Y
2,4-DB	0.00	0.00	0	0	0.000	0.000	0U	0U	0.10 U	Y
Dalapon	5.64 +0.06	5.17 -0.05	163217	57584	0.170	0.113	0.0034U	0.0023U	0.28 U	Y
Dicamba	0.00	0.00	0	0	0.000	0.000	0U	0U	0.025 U	Y
Dichlorprop	0.00	0.00	0	1476466	0.000	0.000	0U	0U	0.030 U	Y
Dinoseb	0.00	0.00	0	0	0.000	0.000	0U	0U	0.015 U	Y
MCPA	0.00	0.00	0	0	0.000	0.000	0U	0U	8.7 U	Y
MCPP	0.00	0.00	0	0	0.000	0.000	0U	0U	14 U	Y

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	20.00 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: 4/19/21 16:10
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Quantitation Report (QT Reviewed)

1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041421-HB\04140000004.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14-Apr-2021, 15:31:46 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 15 08:02:39 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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	5.640f	5.167f	163217	57584	0.170	0.113 #
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	0.000	0	0	N.D. d	N.D.
6)	m	Dichloroprop	0.000	10.597	0	1476466	N.D.	N.D.
7)	m	2,4-D	0.000	0.000	0	0	N.D.	N.D.
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.

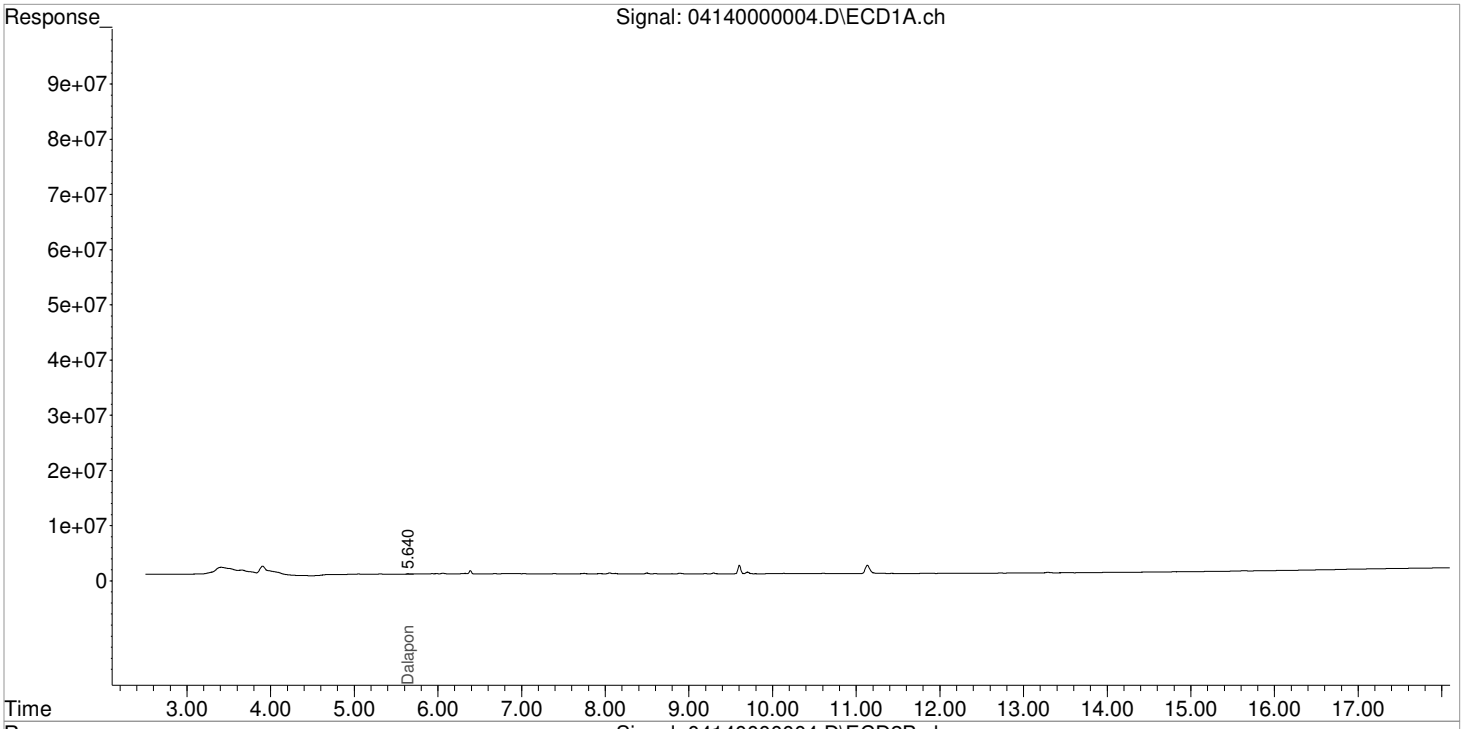
Quantitation Report (QT Reviewed)

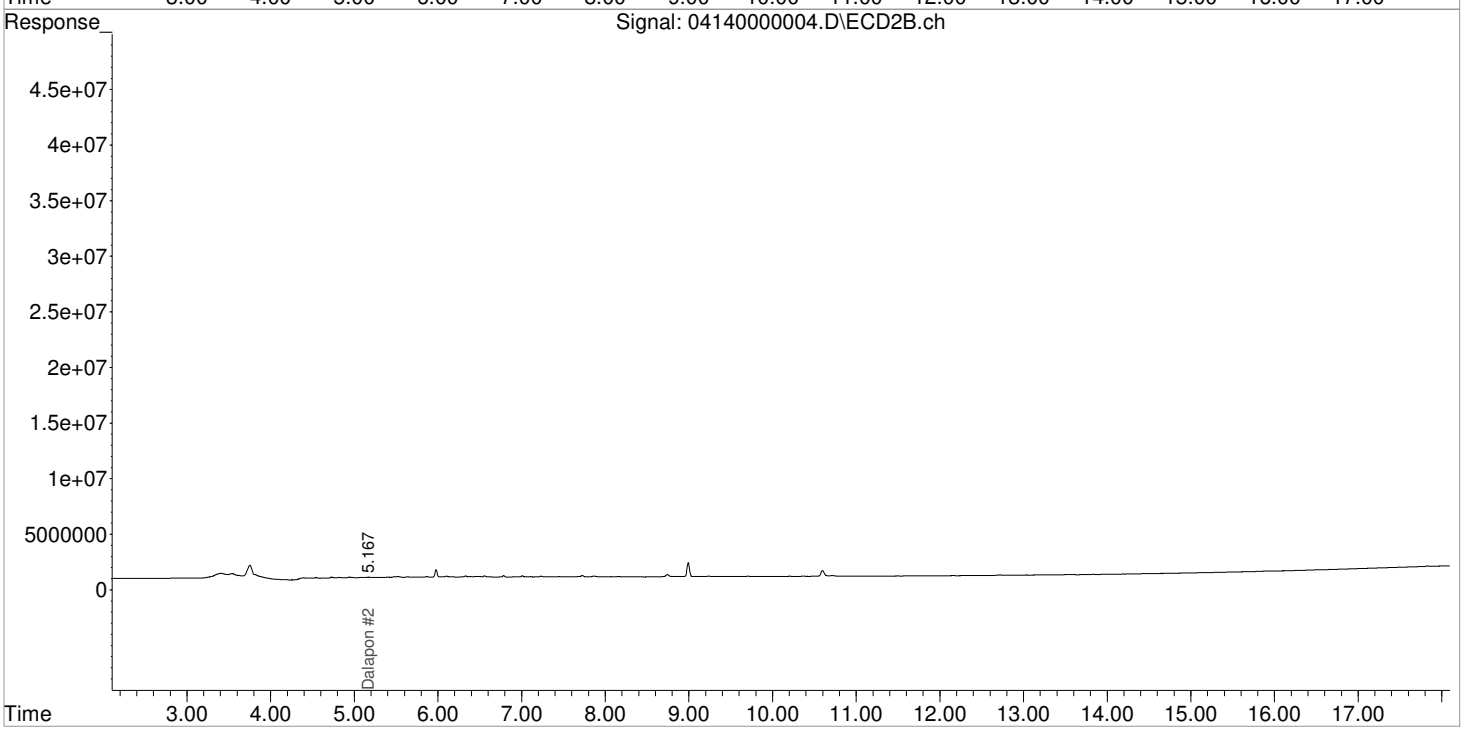
1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041421-HB\04140000004.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14-Apr-2021, 15:31:46 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 15 08:02:39 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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





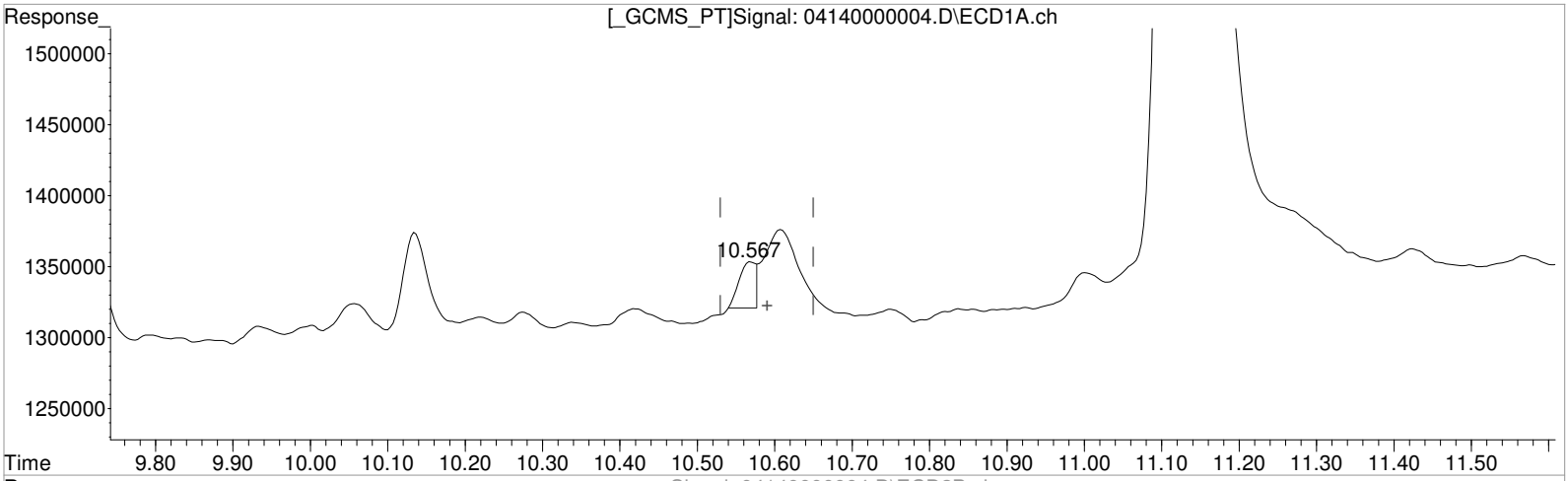
Quantitation Report (Qedit)

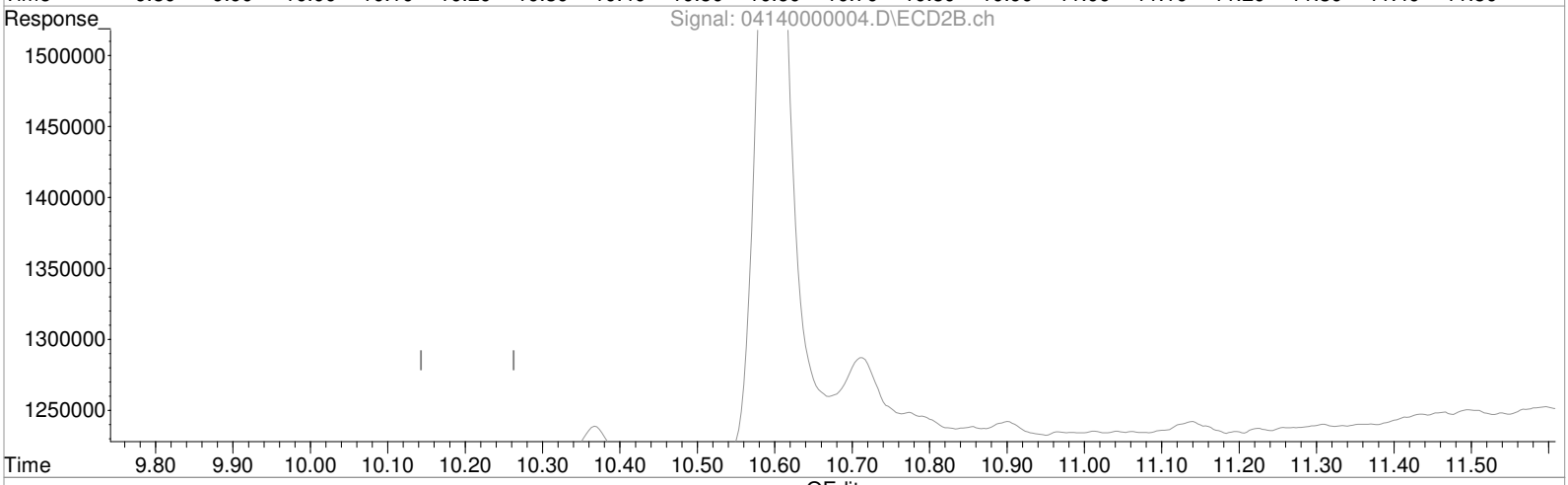
1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041421-HB\04140000004.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14-Apr-2021, 15:31:46 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 15 08:01:48 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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)

10.567min 115815.702 ppb

response 50863

(5) MCPA #2 (m)

0.000min 0.000 ppb

response 0

Manual Integration:

Before

04/15/21

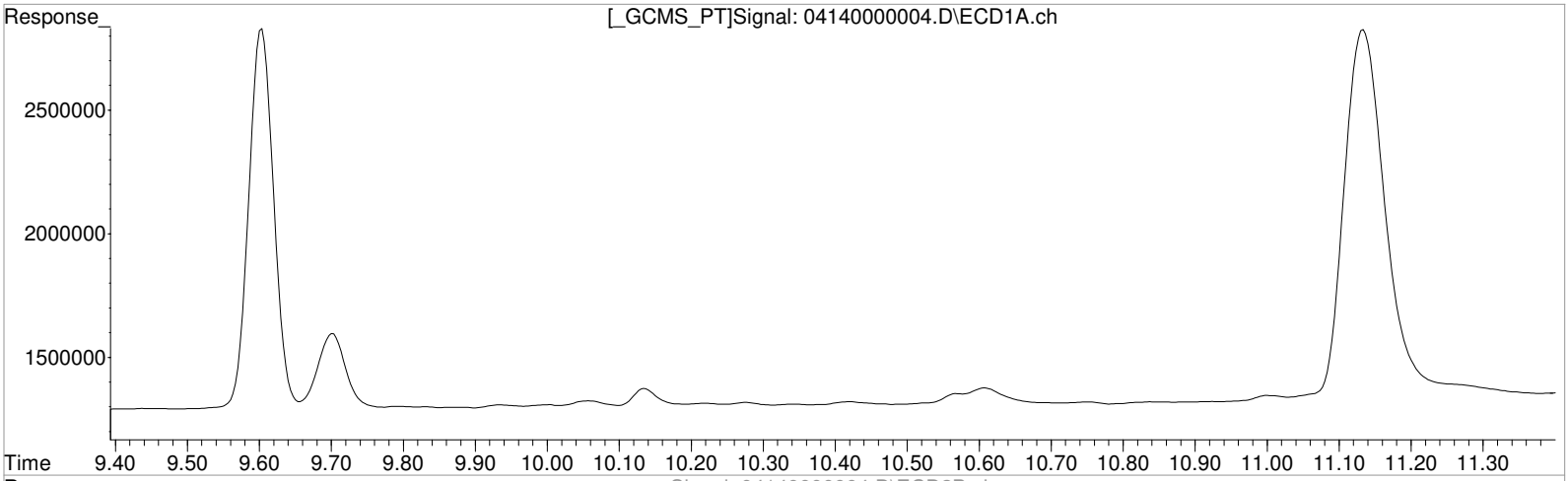
(+) = Expected Retention Time

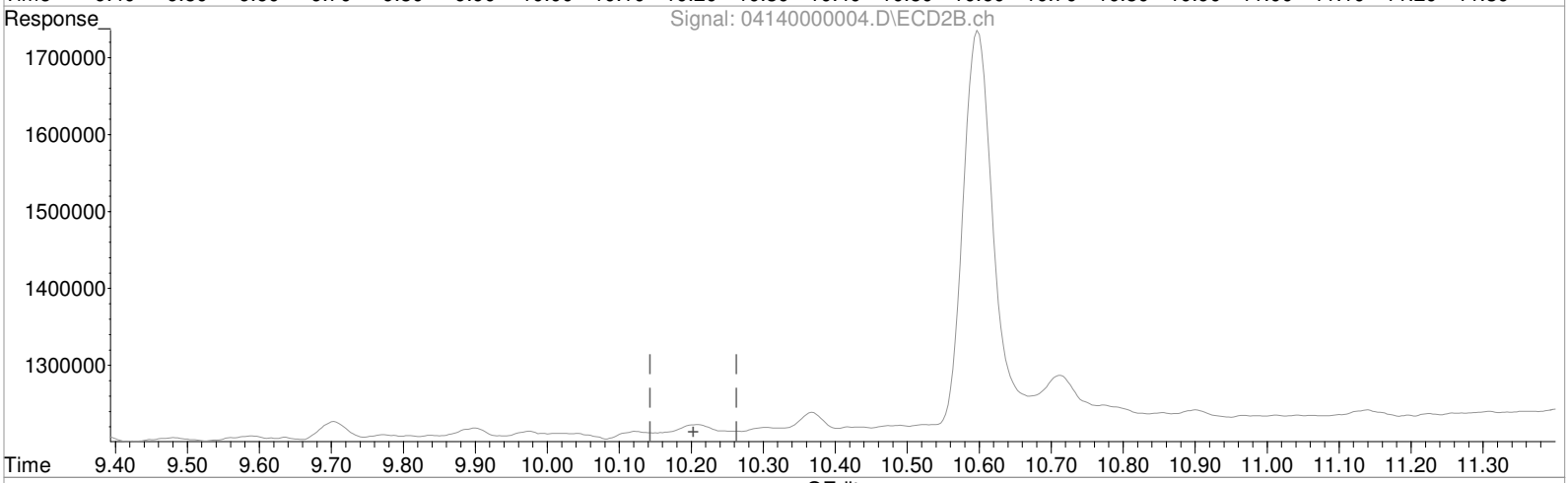
1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041421-HB\04140000004.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14-Apr-2021, 15:31:46 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 15 08:01:48 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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)

0.000min 0.000 ppb d

response 0

Manual Integration:

After

Quad Error

04/15/21

(5) MCPA #2 (m)

0.000min 0.000 ppb

response 0

(+) = Expected Retention Time

1st JTC 04/19/21
2nd 4w 04/20/21

Validation Report

Data File: J:\GC34\DATA\041421-HB\04140000012.D\
Lab ID: KQ2106070-04
RunType: CCB
Matrix: Water

Date Acquired: 4/14/21 18:44:17
Batch ID: 719851
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: _____

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Secondary Review: _____

1st JTC 04/19/21
2nd 4w 04/20/21

Quantitation Report

Data File:	J:\GC34\DATA\041421-HB\04140000012.D\	**Instrument:**	K-GC-34
Acqu Date:	4/14/21 18:44:17	**Vial:**	4
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2106070-04	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Water
Prod Code:	HERB	**Collect Date:**	3/30/21	**Receive Date:**	3/31/21

Analysis Lot:	719851	**Prep Lot:**		**Report Group:**	KQ2106070
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100209
		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				17 - 113	Y

Target Compounds

Final Conc.Units: ug/L

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	0.033 U	Y
2,4,5-TP (Silvex)	0.00	0.00	0	0	0.000	0.000	0U	0U	0.045 U	Y
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	0.036 U	Y
2,4-DB	0.00	0.00	0	0	0.000	0.000	0U	0U	0.10 U	Y
Dalapon	5.63 +0.06	5.28 +0.07	155717	67364	0.162	0.133	0.0032U	0.0027U	0.28 U	Y
Dicamba	0.00	0.00	0	0	0.000	0.000	0U	0U	0.025 U	Y
Dichlorprop	0.00	0.00	0	669444	0.000	0.000	0U	0U	0.030 U	Y
Dinoseb	0.00	0.00	0	0	0.000	0.000	0U	0U	0.015 U	Y
MCPA	0.00	0.00	0	0	0.000	0.000	0U	0U	8.7 U	Y
MCPP	0.00	0.00	0	0	0.000	0.000	0U	0U	14 U	Y

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	20.00 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: 4/19/21 16:10
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Quantitation Report (QT Reviewed)

1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041421-HB\04140000012.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14-Apr-2021, 18:44:17 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 15 08:18:23 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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	5.633f	5.280f	155717	67364	0.162	0.133
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	0.000	0	0	N.D. d	N.D.
6)	m	Dichloroprop	0.000	10.583	0	669444	N.D.	N.D.
7)	m	2,4-D	0.000	0.000	0	0	N.D.	N.D.
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.

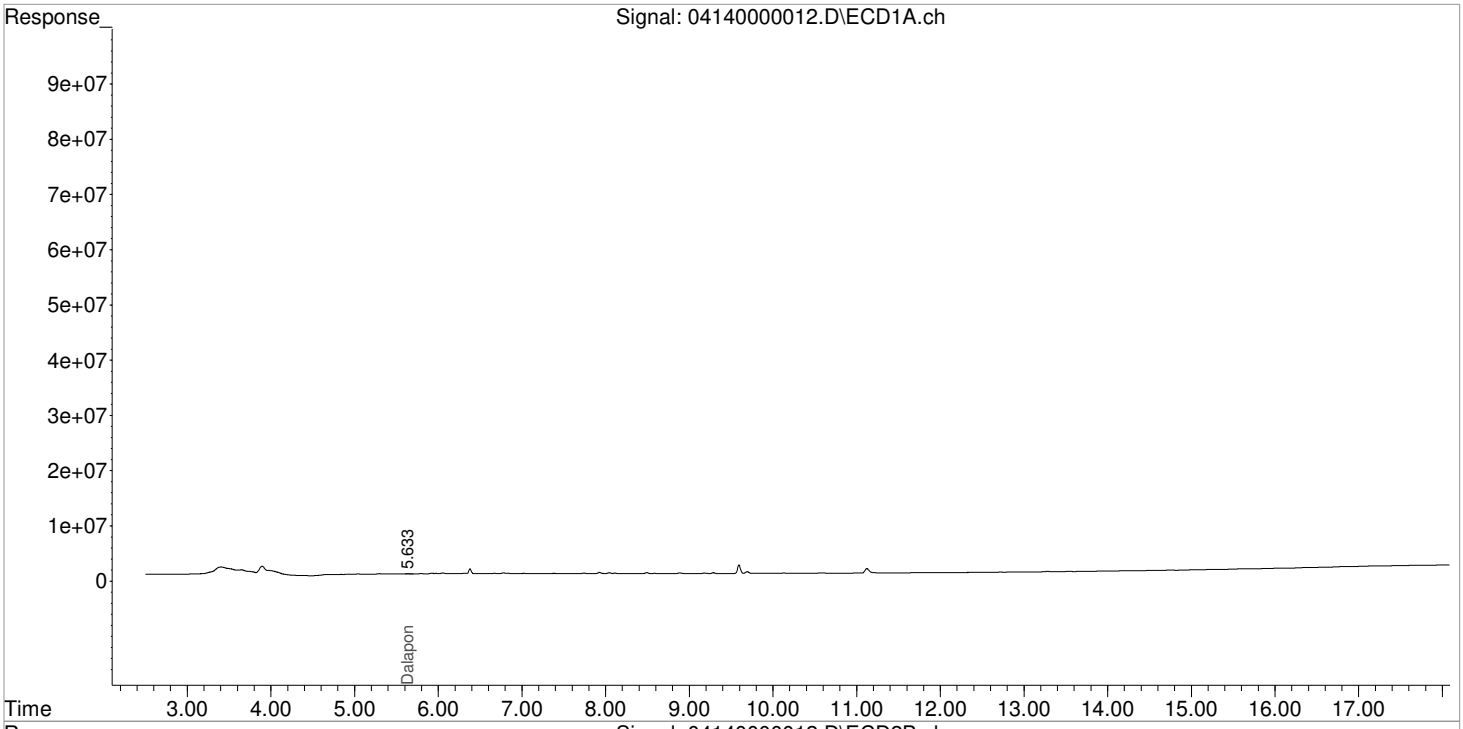
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

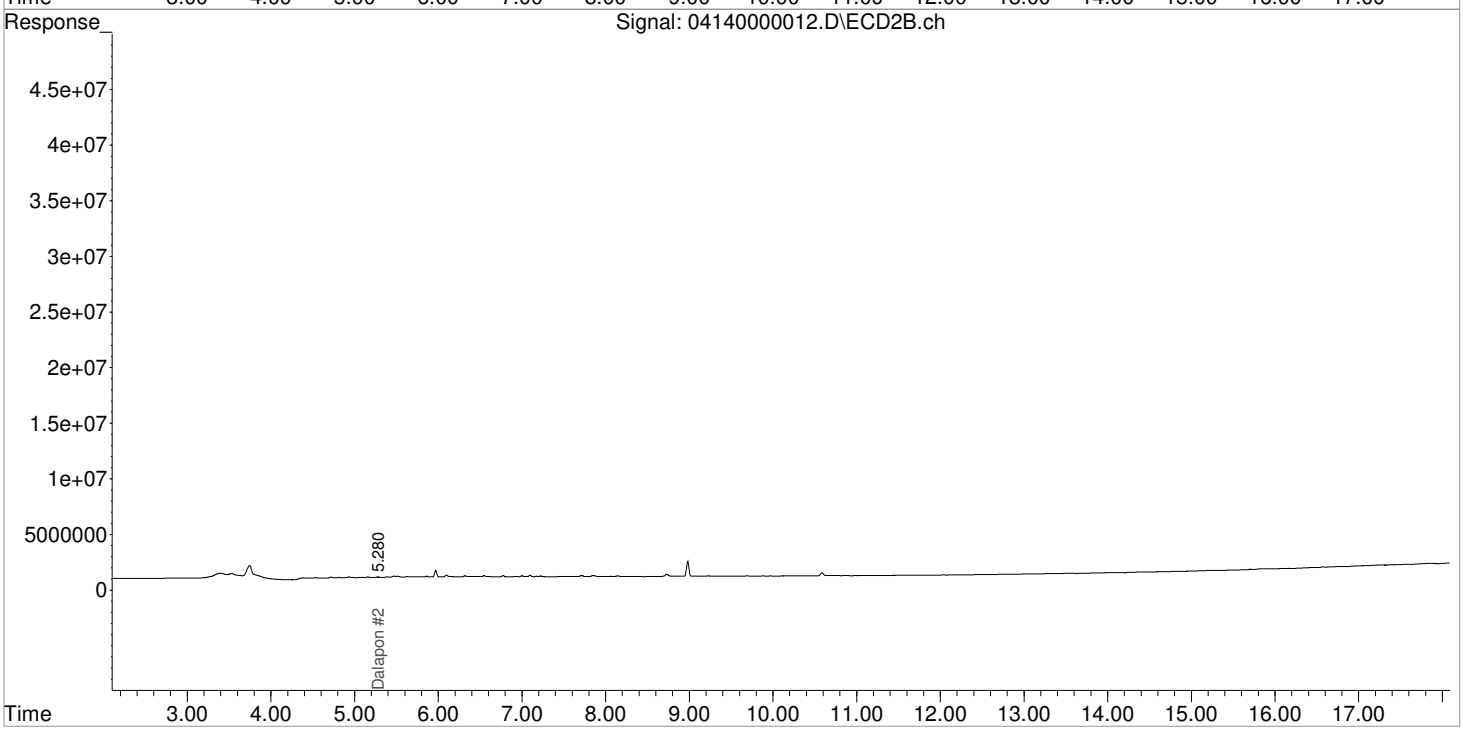
1st JTC 04/19/21
2nd 4W 04/20/21

Data File : J:\GC34\DATA\041421-HB\04140000012.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14-Apr-2021, 18:44:17 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 15 08:18:23 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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





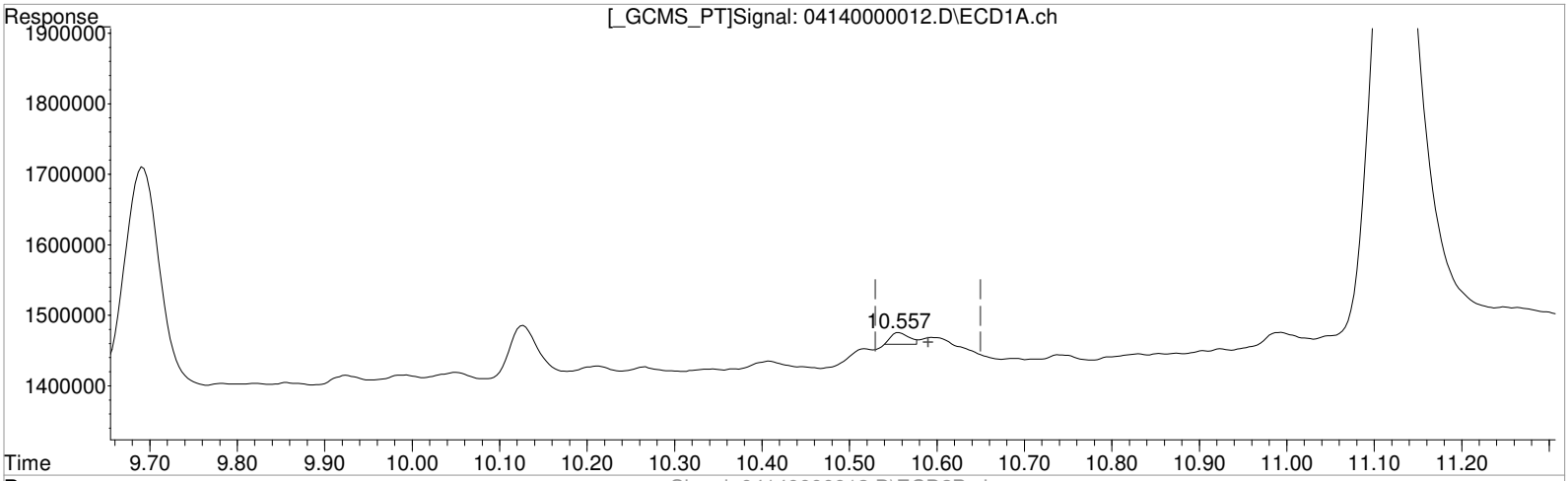
Quantitation Report (Qedit)

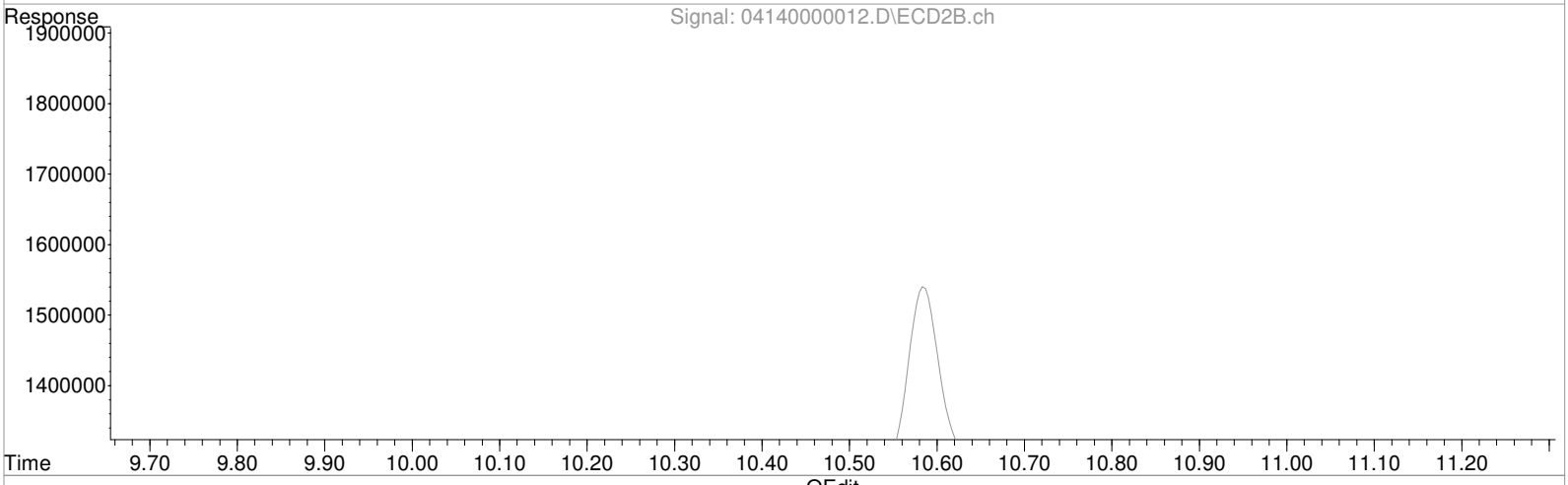
1st JTC 04/19/21
2nd 4W 04/20/21

Data File : J:\GC34\DATA\041421-HB\04140000012.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14-Apr-2021, 18:44:17 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 15 08:02:10 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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)

10.557min 115820.496 ppb

response 24469

(5) MCPA #2 (m)

0.000min 0.000 ppb

response 0

Manual Integration:

Before

04/15/21

(+) = Expected Retention Time

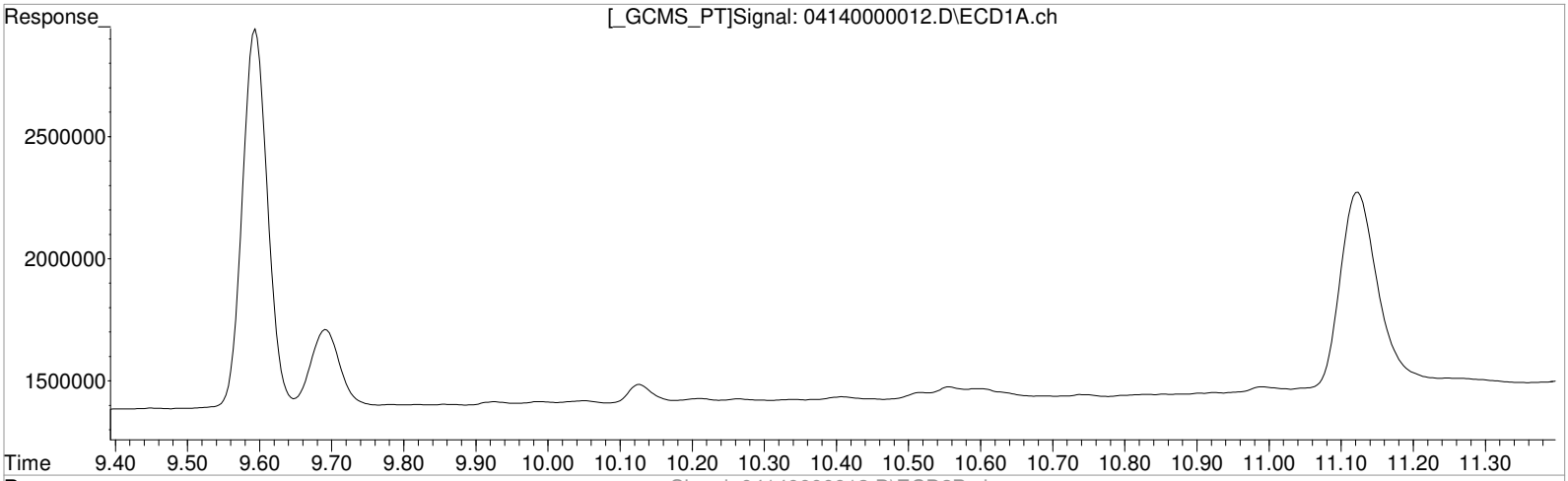
Quantitation Report (Qedit)

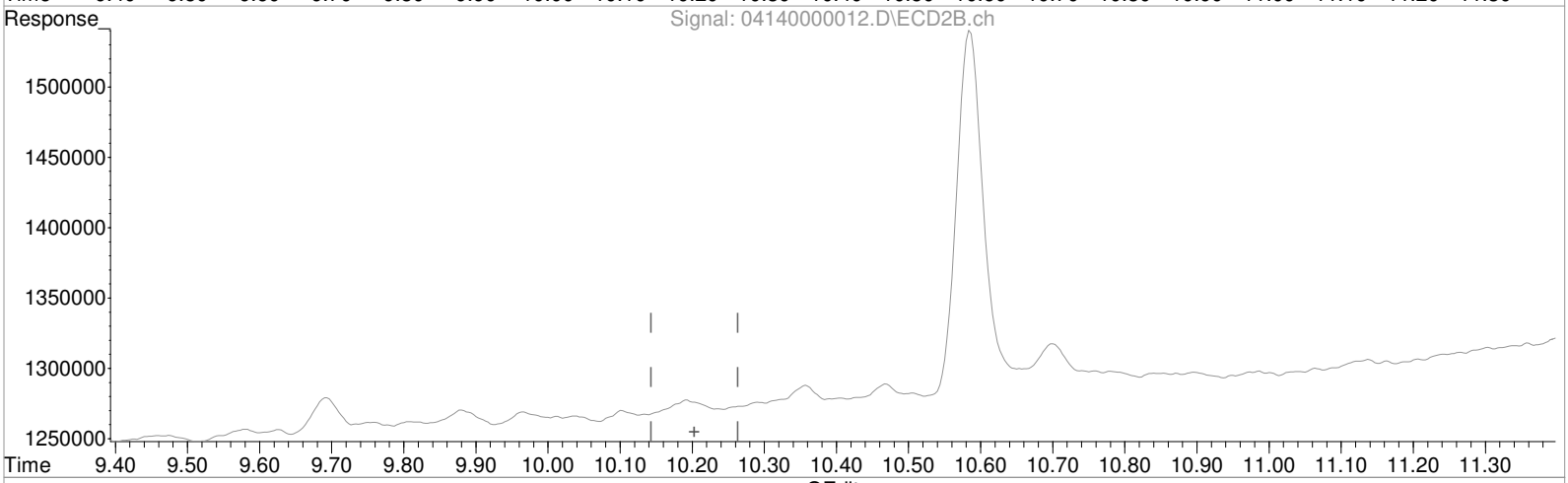
1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041421-HB\04140000012.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14-Apr-2021, 18:44:17 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 15 08:02:10 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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)

0.000min 0.000 ppb d

response 0

(5) MCPA #2 (m)

0.000min 0.000 ppb

response 0

Manual Integration:

After

Quad Error

04/15/21

(+) = Expected Retention Time

1st JTC 04/19/21
2nd 4w 04/20/21

Validation Report

Data File: J:\GC34\DATA\041521-HB\04150000004.D\
Lab ID: KQ2106306-02
RunType: CCB
Matrix: Water

Date Acquired: 4/15/21 11:48:10
Batch ID: 719860
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: _____

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Secondary Review: _____

1st JTC 04/19/21
2nd 4w 04/20/21

Quantitation Report

Data File:	J:\GC34\DATA\041521-HB\04150000004.D\	**Instrument:**	K-GC-34
Acqu Date:	4/15/21 11:48:10	**Vial:**	5
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2106306-02	**Raw Units:**	ppb

Bottle ID:		**Tier:**	I	**Matrix:**	Water
Prod Code:	HERB	**Collect Date:**	3/30/21	**Receive Date:**	4/1/21

Analysis Lot:	719860	**Prep Lot:**		**Report Group:**	KQ2106306
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100209
		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	9.70 +0.02	0	87197	0.000	0.206				17 - 113	Y

Target Compounds

Final Conc.Units: ug/L

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	0.033 U	Y
2,4,5-TP (Silvex)	0.00	0.00	0	0	0.000	0.000	0U	0U	0.045 U	Y
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	0.036 U	Y
2,4-DB	0.00	12.68 +0.01	0	39580	0.000	0.230	0U	0.0046U	0.10 U	Y
Dalapon	5.64 +0.06	5.17 -0.05	159911	114467	0.167	0.226	0.0033U	0.0045U	0.28 U	Y
Dicamba	0.00	9.84 -0.05	0	25691	0.000	0.019	0U	0.00038U	0.025 U	Y
Dichlorprop	11.00 -0.02	0.00	135319	1621249	0.187	0.000	0.0037U	0U	0.030 U	Y
Dinoseb	0.00	0.00	0	0	0.000	0.000	0U	0U	0.015 U	Y
MCPA	0.00	0.00	0	0	0.000	0.000	0U	0U	8.7 U	Y
MCPP	0.00	0.00	51952	0	0.000	0.000	0U	0U	14 U	Y

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	20.00 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 (QT Reviewed)

1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041521-HB\04150000004.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15-Apr-2021, 11:48:10 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 15 13:22:43 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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	9.700	0	87197	N.D.	0.206	#
		Target Compounds							
1)	m	Dalapon	5.640f	5.167f	159911	114467	0.167	0.226	#
3)	m	Dicamba	0.000	9.840f	0	25691	N.D.	0.019	#
4)	m	MCPP	10.413	0.000	51952	0	N.D.	N.D.	
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D.	
6)	m	Dichloroprop	10.997	10.590	135319	1621249	0.187	N.D.	#
7)	m	2,4-D	0.000	0.000	0	0	N.D.	N.D.	
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	12.680	0	39580	N.D.	0.230	#
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.

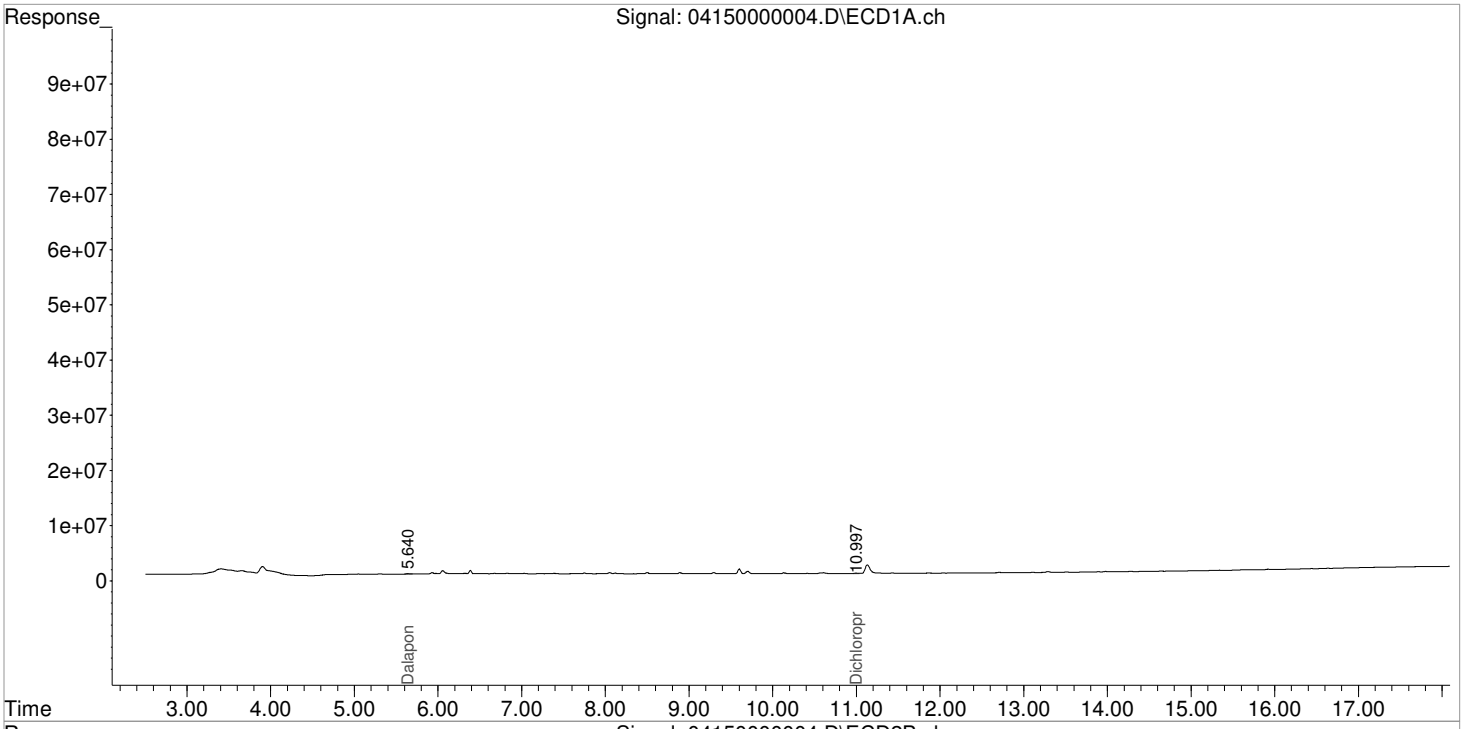
Quantitation Report (QT Reviewed)

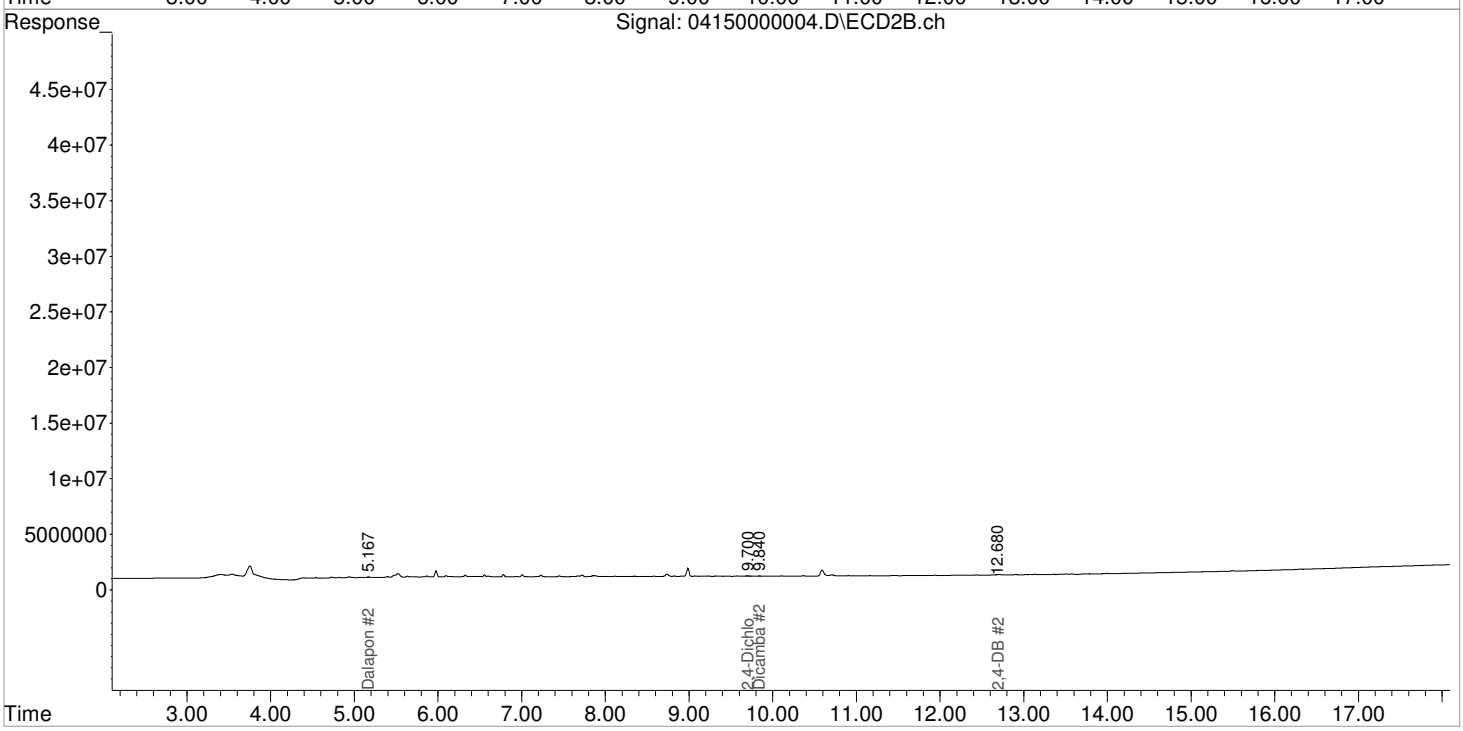
1st JTC 04/19/21
2nd 4W 04/20/21

Data File : J:\GC34\DATA\041521-HB\04150000004.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15-Apr-2021, 11:48:10 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 15 13:22:43 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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



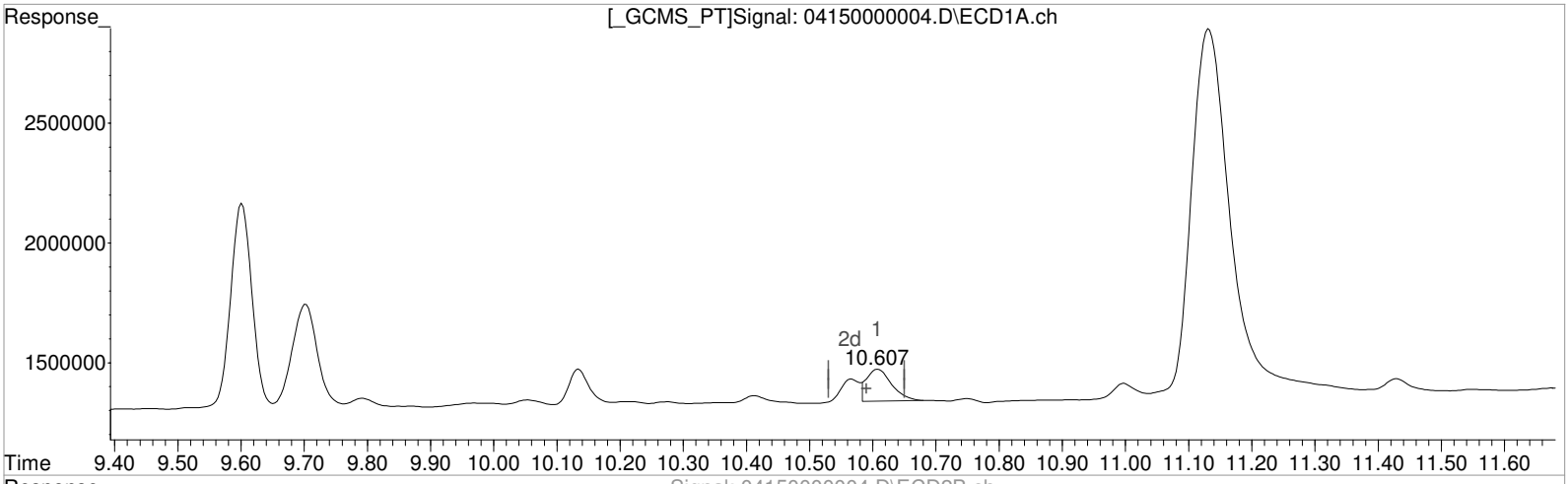


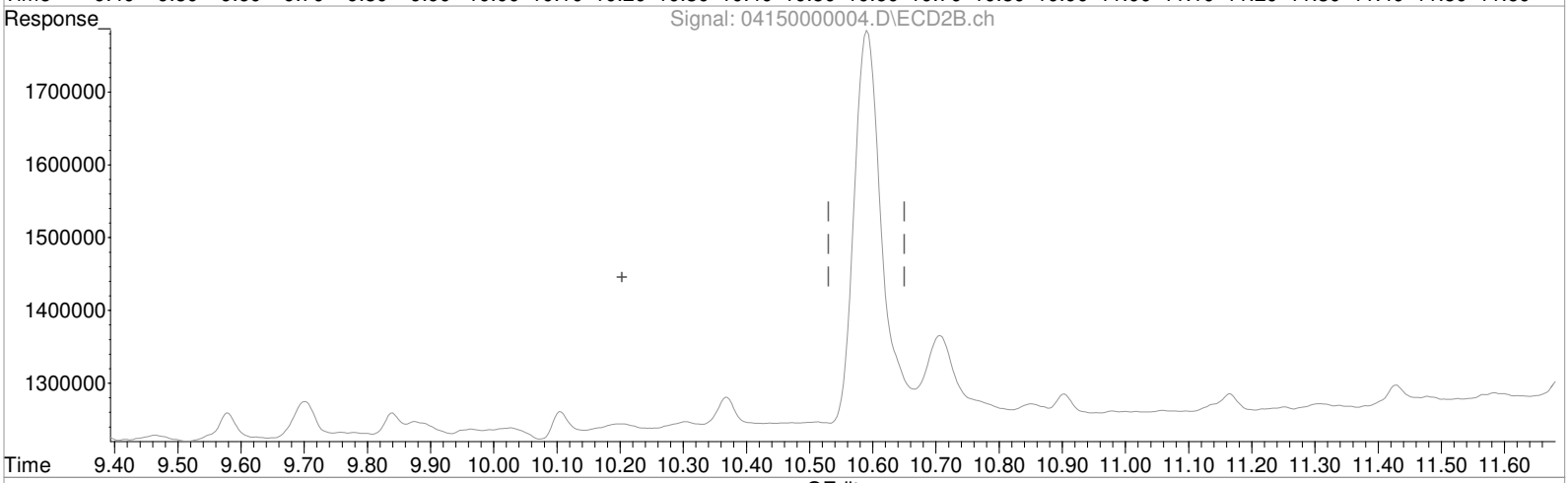
1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041521-HB\04150000004.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15-Apr-2021, 11:48:10 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 15 13:22:07 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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)

10.607min 115759.567 ppb

response 359795

(5) MCPA #2 (m)

0.000min 0.000 ppb

response 0

Manual Integration:

Before

04/15/21

(+) = Expected Retention Time

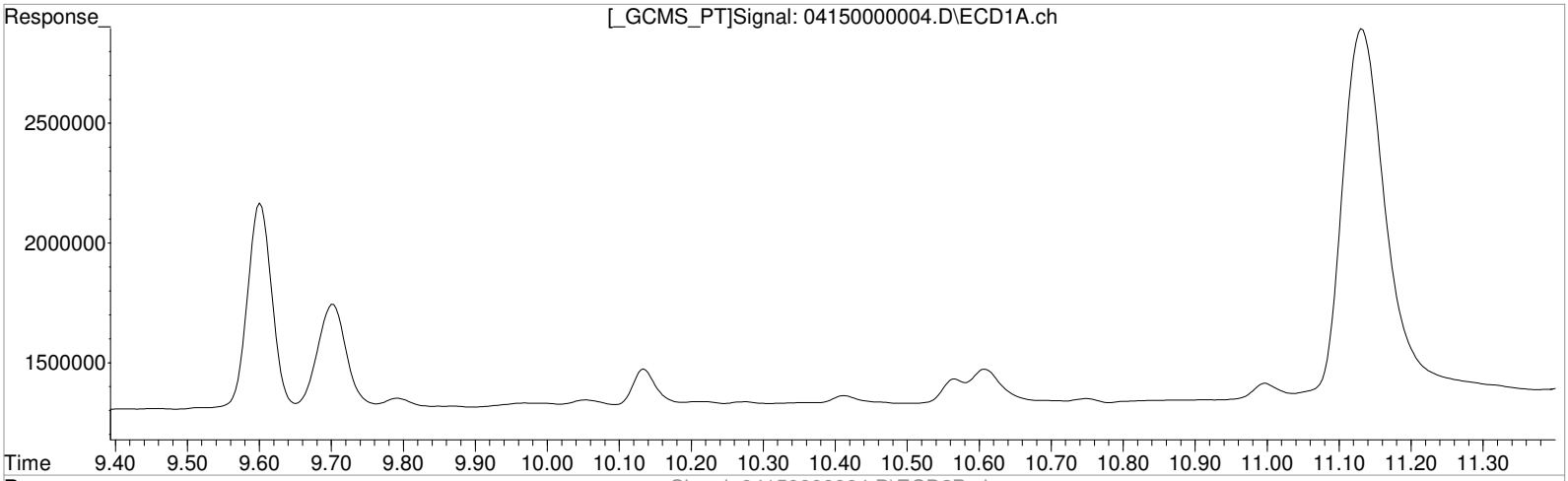
Quantitation Report (Qedit)

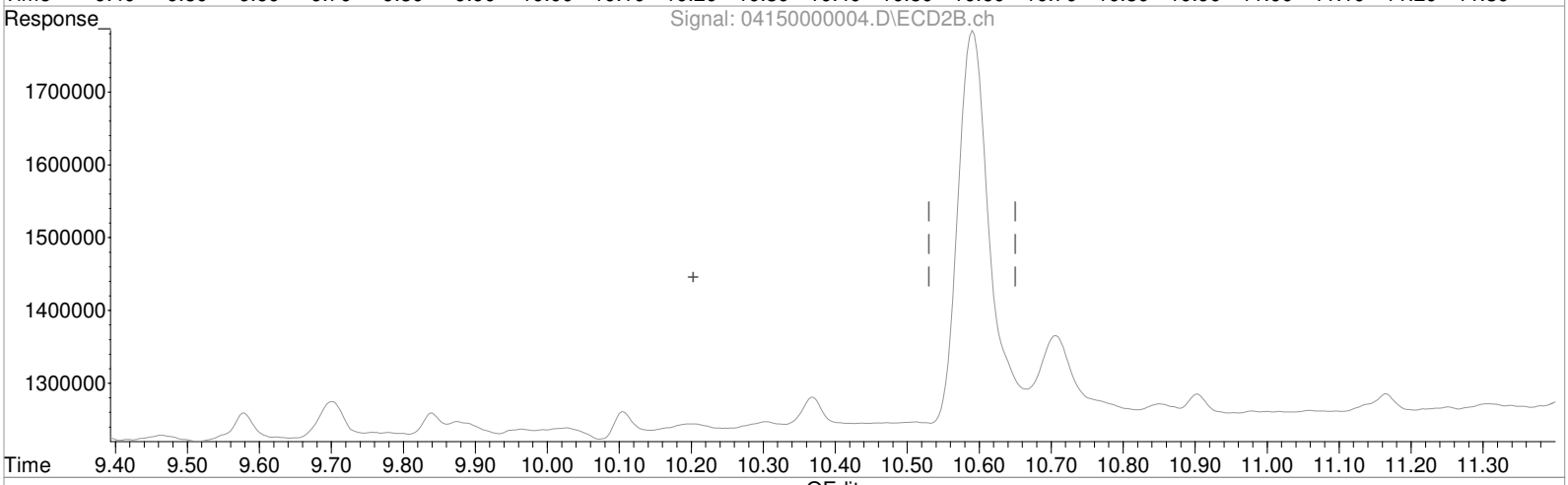
1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041521-HB\04150000004.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15-Apr-2021, 11:48:10 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 15 13:22:07 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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)

0.000min 0.000 ppb d

response 0

(5) MCPA #2 (m)

0.000min 0.000 ppb

response 0

Manual Integration:

After

Quad Error

04/15/21

(+) = Expected Retention Time

1st JTC 04/16/21
2nd 4w 04/16/21

Validation Report

Data File: J:\GC34\DATA\041521-HB\04150000012.D\
Lab ID: KQ2106185-02
RunType: CCB
Matrix: Soil

Date Acquired: 4/15/21 15:00:33
Batch ID: 720005
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: _____

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Secondary Review: _____

1st JTC 04/19/21
2nd 4w 04/20/21

Validation Report

Data File: J:\GC34\DATA\041521-HB\04150000012.D\
Lab ID: KQ2106306-04
RunType: CCB
Matrix: Water

Date Acquired: 4/15/21 15:00:33
Batch ID: 719860
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: _____

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Secondary Review: _____

1st JTC 04/16/21
2nd 4w 04/16/21

Quantitation Report

Data File:	J:\GC34\DATA\041521-HB\04150000012.D\	**Instrument:**	K-GC-34
Acqu Date:	4/15/21 15:00:33	**Vial:**	2
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2106185-02	**Raw Units:**	ppb

Bottle ID:		**Tier:**	II	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	4/5/21	**Receive Date:**	4/7/21

Analysis Lot:	720005	**Prep Lot:**		**Report Group:**	KQ2106185
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100209
		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	9.70 +0.02	0	97664	0.000	0.230				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)	12.17 -0.02	0.00	702051	0	0.229	0.000	0.38U	0U	2.4 U	Y
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	7.7 U	Y
2,4-DB	0.00	0.00	0	0	0.000	0.000	0U	0U	5.4 U	Y
Dalapon	5.64 +0.06	5.16 -0.06	174411	79681	0.182	0.157	0.30U	0.26U	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	742747	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	0.00	0	0	0.000	0.000	0U	0U	320 U	Y
MCPP	0.00	0.00	83198	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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1st JTC 04/19/21
2nd 4w 04/20/21

Quantitation Report

Data File:	J:\GC34\DATA\041521-HB\04150000012.D\	**Instrument:**	K-GC-34
Acqu Date:	4/15/21 15:00:33	**Vial:**	7
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2106306-04	**Raw Units:**	ppb

Bottle ID:		**Tier:**	I	**Matrix:**	Water
Prod Code:	HERB	**Collect Date:**	3/30/21	**Receive Date:**	4/1/21

Analysis Lot:	719860	**Prep Lot:**		**Report Group:**	KQ2106306
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100209
		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	9.70 +0.02	0	97664	0.000	0.230				17 - 113	Y

Target Compounds

Final Conc.Units: ug/L

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	0.033 U	Y
2,4,5-TP (Silvex)	12.17 -0.02	0.00	702051	0	0.229	0.000	0.0046U	0U	0.045 U	Y
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	0.036 U	Y
2,4-DB	0.00	0.00	0	0	0.000	0.000	0U	0U	0.10 U	Y
Dalapon	5.64 +0.06	5.16 -0.06	174411	79681	0.182	0.157	0.0036U	0.0031U	0.28 U	Y
Dicamba	0.00	0.00	0	0	0.000	0.000	0U	0U	0.025 U	Y
Dichlorprop	0.00	0.00	0	742747	0.000	0.000	0U	0U	0.030 U	Y
Dinoseb	0.00	0.00	0	0	0.000	0.000	0U	0U	0.015 U	Y
MCPA	0.00	0.00	0	0	0.000	0.000	0U	0U	8.7 U	Y
MCPP	0.00	0.00	83198	0	0.000	0.000	0U	0U	14 U	Y

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	20.00 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 (QT Reviewed)

1st JTC 04/16/21
2nd 4w 04/16/21

Data File : J:\GC34\DATA\041521-HB\04150000012.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15-Apr-2021, 15:00:33 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 16 08:15:18 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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	9.700	0	97664	N.D.	0.230	#
		Target Compounds							
1)	m	Dalapon	5.637f	5.163f	174411	79681	0.182	0.157	
3)	m	Dicamba	0.000	0.000	0	0	N.D.	N.D.	
4)	m	MCPP	10.410	0.000	83198	0	N.D.	N.D.	
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D.	
6)	m	Dichloroprop	0.000	10.587	0	742747	N.D.	N.D.	
7)	m	2,4-D	0.000	0.000	0	0	N.D.	N.D.	
8)	m	2,4,5-TP ...	12.170	0.000	702051	0	0.229	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.

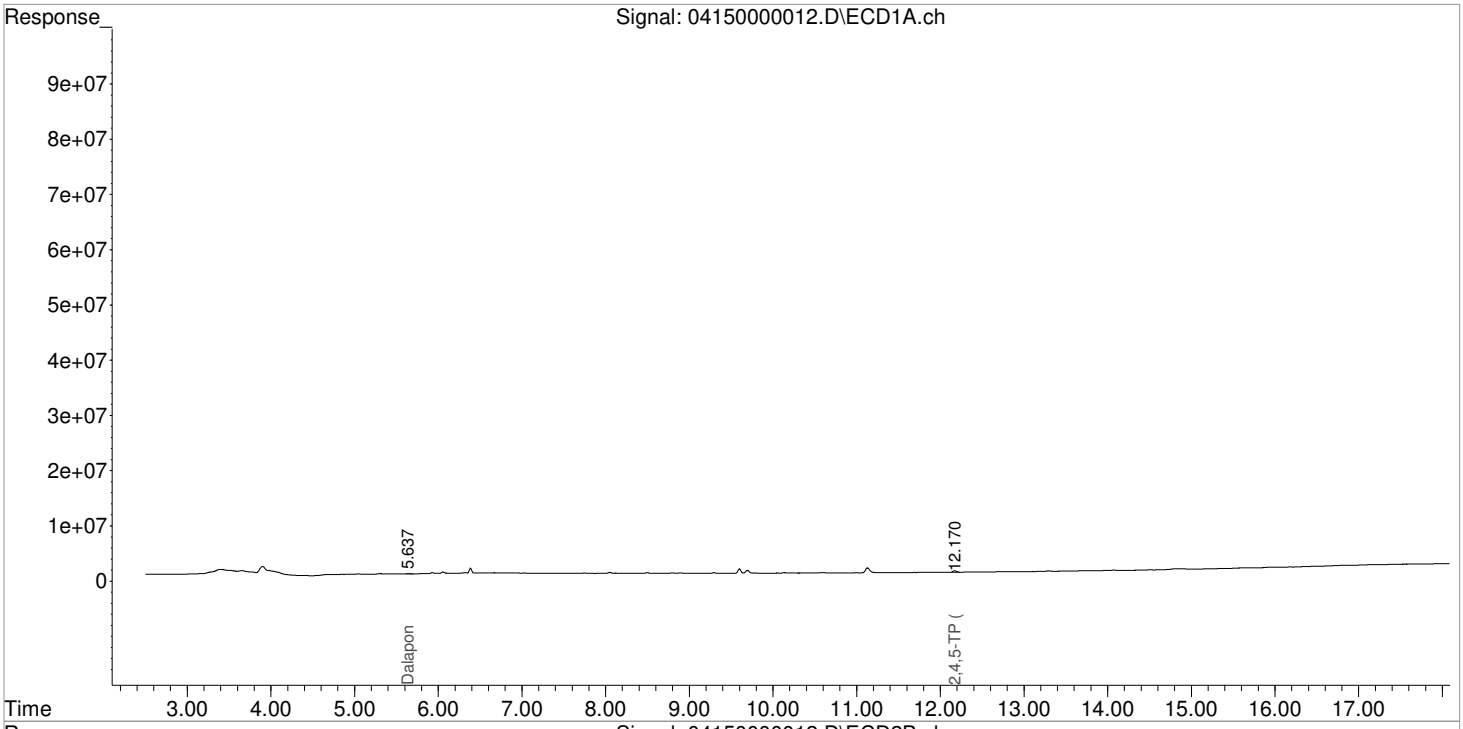
Quantitation Report (QT Reviewed)

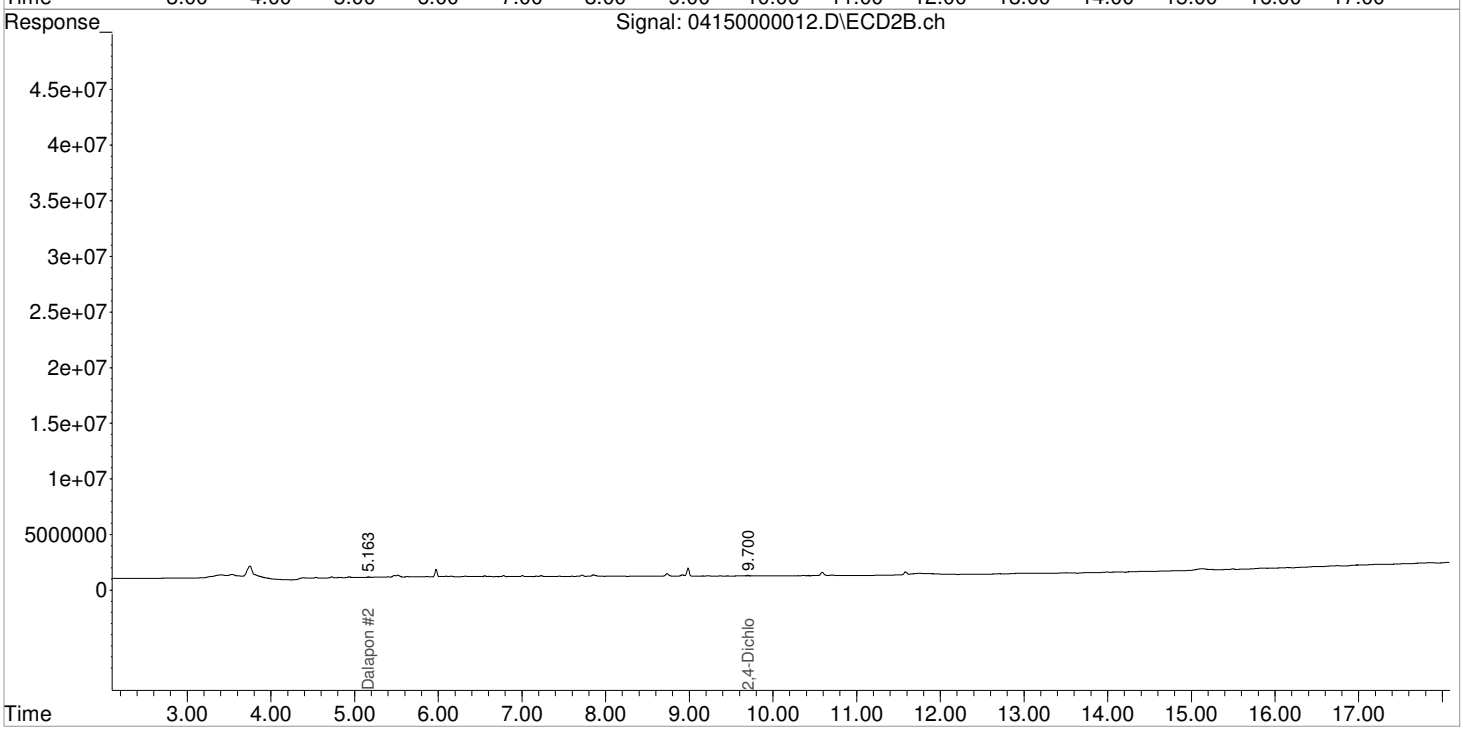
1st JTC 04/16/21
2nd 4w 04/16/21

Data File : J:\GC34\DATA\041521-HB\04150000012.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15-Apr-2021, 15:00:33 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 16 08:15:18 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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





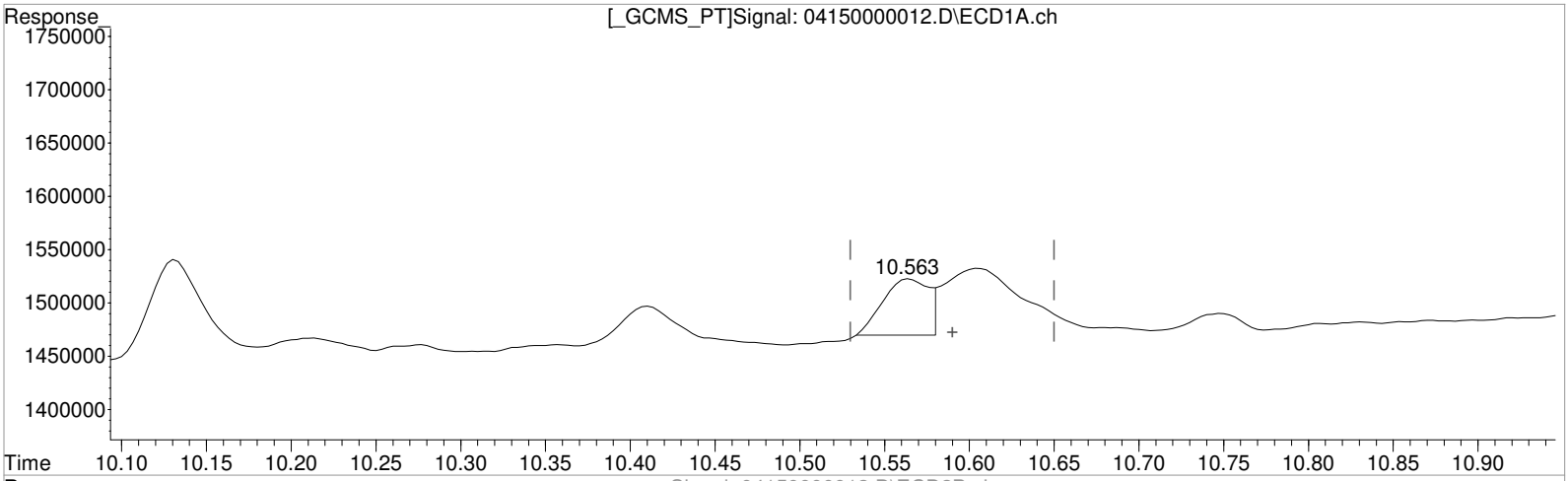
Quantitation Report (Qedit)

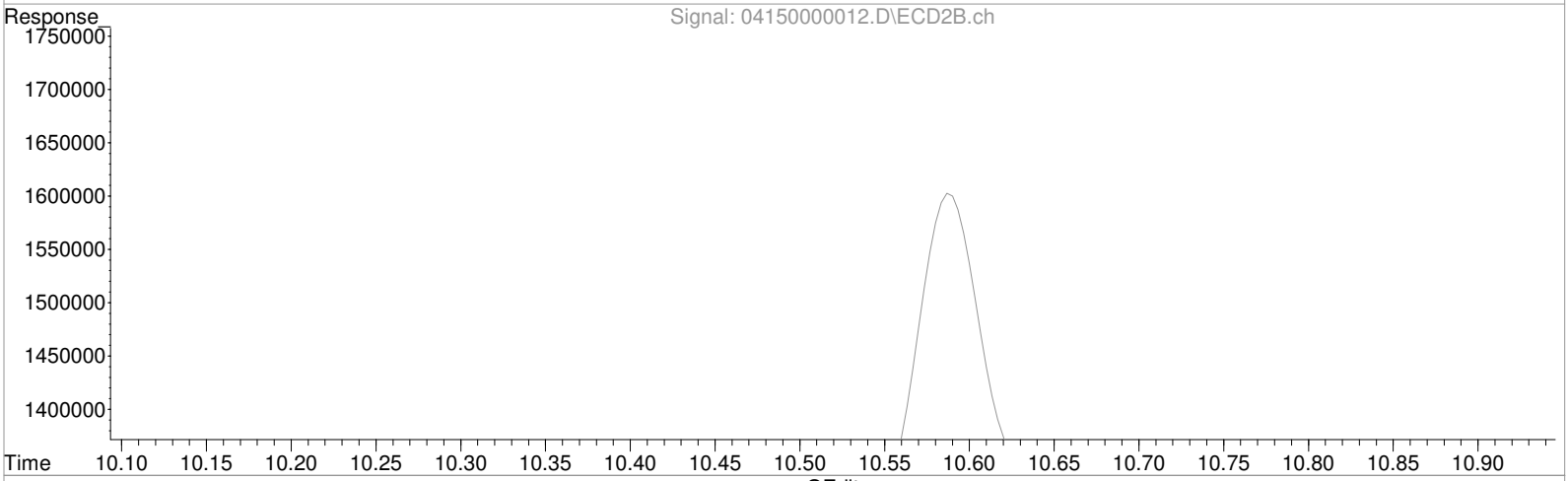
1st JTC 04/16/21
2nd 4W 04/16/21

Data File : J:\GC34\DATA\041521-HB\04150000012.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15-Apr-2021, 15:00:33 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 16 08:12:54 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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)

10.563min 115805.841 ppb

response 105154

(5) MCPA #2 (m)

0.000min 0.000 ppb

response 0

Manual Integration:

Before

04/16/21

(+) = Expected Retention Time

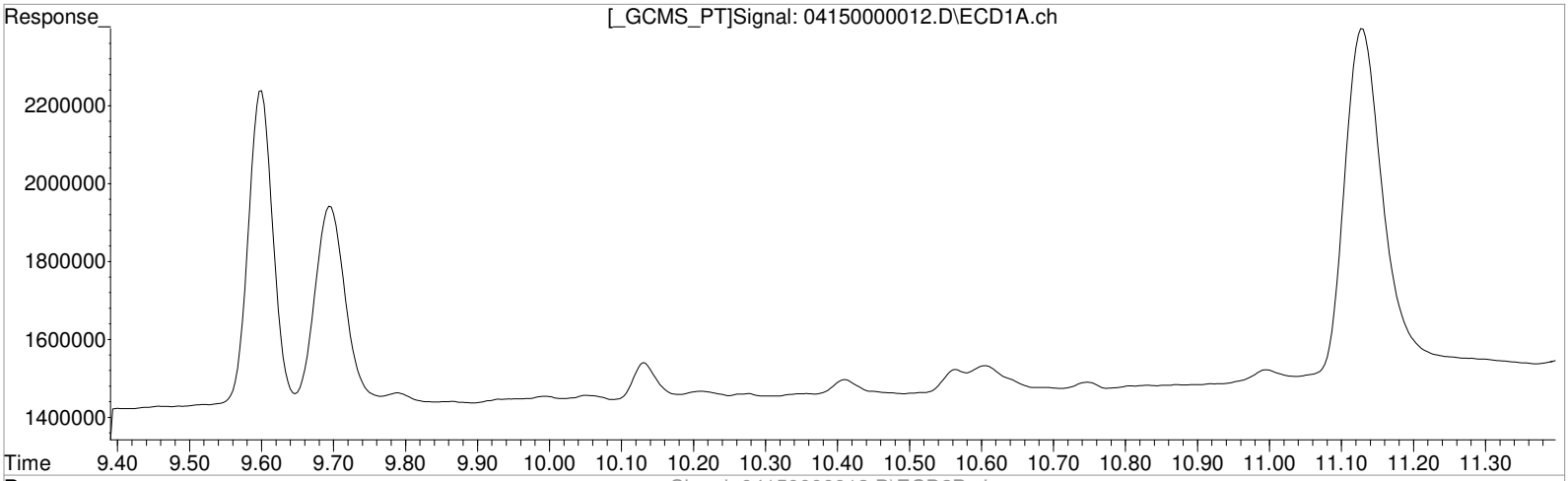
Quantitation Report (Qedit)

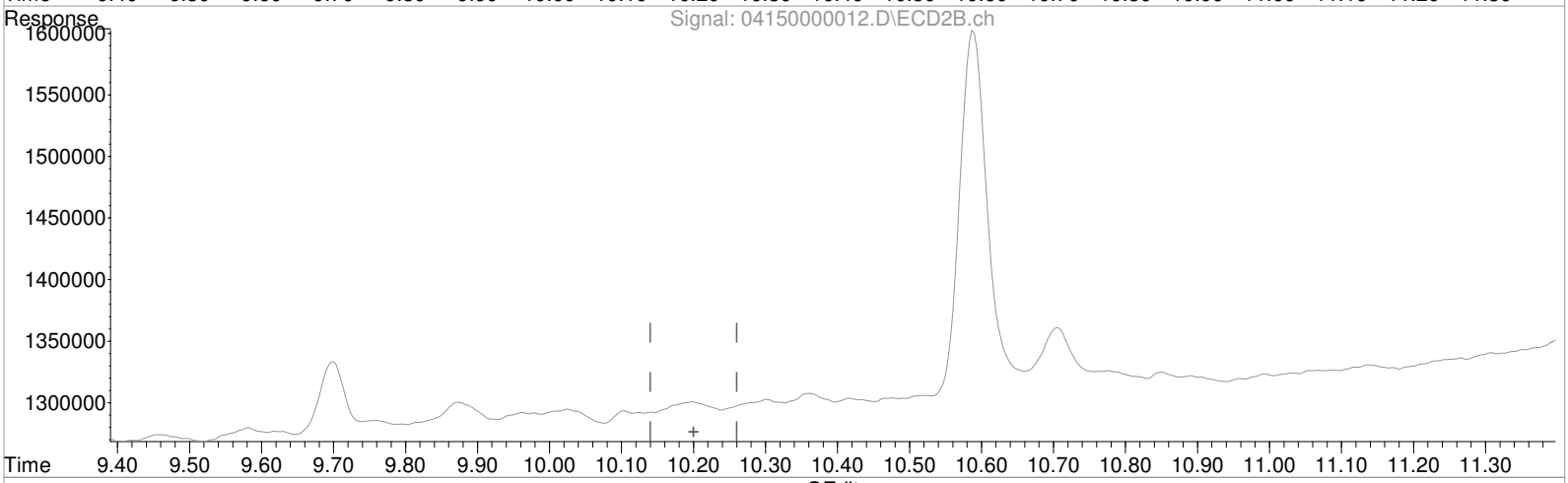
1st JTC 04/16/21
2nd 4w 04/16/21

Data File : J:\GC34\DATA\041521-HB\04150000012.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15-Apr-2021, 15:00:33 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 16 08:12:54 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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)

0.000min 0.000 ppb d

response 0

(5) MCPA #2 (m)

0.000min 0.000 ppb

response 0

Manual Integration:

After

Quad Error

04/16/21

(+) = Expected Retention Time

1st JTC 04/16/21
2nd 4w 04/16/21

Validation Report

Data File: J:\GC34\DATA\040821-HB\04080000021.D\
Lab ID: KQ2105724-03
RunType: CCV
Matrix: Soil

Date Acquired: 4/8/21 23:33:11
Batch ID: 719207
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: _____

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Secondary Review: _____

1st JTC 04/16/21
2nd 4w 04/16/21

Quantitation Report

Data File:	J:\GC34\DATA\040821-HB\04080000021.D\	**Instrument:**	K-GC-34
Acqu Date:	4/8/21 23:33:11	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2105724-03	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	3/30/21	**Receive Date:**	3/31/21

Analysis Lot:	719207	**Prep Lot:**		**Report Group:**	KQ2105724
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100194
		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	11.01	9.48	94546022	35001365	92.214	86.132			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	13.72	12.05	417367379	112069206	91.740	90.214	91.7	90.2	Y
2,4,5-TP (Silvex)	13.34	11.50	493430932	137671050	102.158	91.968	102	92.0	Y
2,4-D	12.27	10.94	116571120	68852790	99.273	87.709	99.3	87.7	Y
2,4-DB	14.32	12.55	55027859	14449647	80.364	83.818	80.4	83.8	Y
Dalapon	5.69	4.84	93795707	44850269	92.348	89.188	92.3	89.2	Y
Dicamba	11.14	9.66	308310596	124179641	102.000	92.654	102	92.7	Y
Dichlorprop	11.97	10.75	97421025	33627957	101.884	85.431	102	85.4	Y
Dinoseb	14.47	12.43	314319331	89777812	94.887	89.483	94.9	89.5	Y
MCPA	11.55	10.30	64251108	33331115	9635.916	8316.027	9640	8320	Y
MCPP	11.30	10.01	38383022	20999862	9857.012	7996.715	9860	8000	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 (QT Reviewed)

1st JTC 04/16/21
2nd 4w 04/16/21

Data File : J:\GC34\DATA\040821-HB\04080000021.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08-Apr-2021, 23:33:11 Operator: JTC
Sample : PENTA-26J 100PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 09 08:17:05 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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...	11.010	9.477	94546022	35001365	92.214	86.132
		Target Compounds						
1)	m	Dalapon	5.687	4.843	93795707	44850269	92.348	89.188
3)	m	Dicamba	11.140	9.660	308.3E6	124.2E6	102.000	92.654
4)	m	MCPP	11.297	10.010	38383022	20999862	9857.012	7996.715
5)	m	MCPA	11.547	10.303	64251108	33331115	9635.916	8316.027
6)	m	Dichloroprop	11.970	10.747	97421025	33627957	101.884	85.431
7)	m	2,4-D	12.270	10.940	116.6E6	68852790	99.273	87.709
8)	m	2,4,5-TP ...	13.337	11.503	493.4E6	137.7E6	102.158	91.968
9)	m	2,4,5-T	13.717	12.047	417.4E6	112.1E6	91.740	90.214
10)	m	2,4-DB	14.317	12.547	55027859	14449647	80.364	83.818
11)	m	Dinoseb	14.467	12.433	314.3E6	89777812	94.887	89.483

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

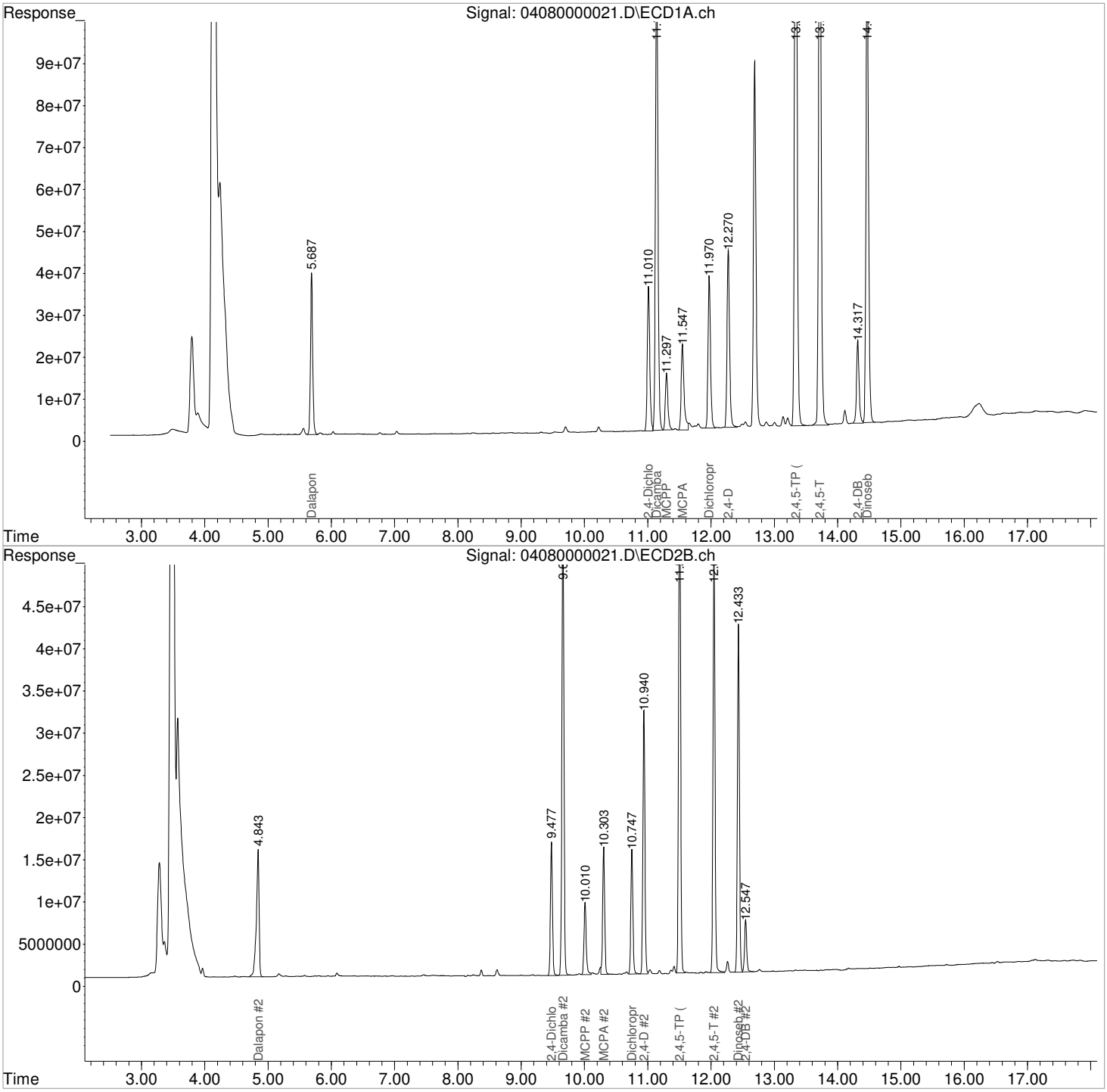
Quantitation Report (QT Reviewed)

1st JTC 04/16/21
2nd 4w 04/16/21

Data File : J:\GC34\DATA\040821-HB\04080000021.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08-Apr-2021, 23:33:11 Operator: JTC
Sample : PENTA-26J 100PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 09 08:17:05 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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



1st JTC 04/16/21
2nd 4w 04/16/21

Validation Report

Data File: J:\GC34\DATA\040821-HB\04080000035.D\
Lab ID: KQ2105724-05
RunType: CCV
Matrix: Soil

Date Acquired: 4/9/21 05:06:38
Batch ID: 719207
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: _____

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Secondary Review: _____

1st JTC 04/16/21
2nd [illegible] 04/16/21

Quantitation Report

Data File:	J:\GC34\DATA\040821-HB\04080000035.D\	**Instrument:**	K-GC-34
Acqu Date:	4/9/21 05:06:38	**Vial:**	3
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2105724-05	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	3/30/21	**Receive Date:**	3/31/21

Analysis Lot:	719207	**Prep Lot:**		**Report Group:**	KQ2105724
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100194
		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	11.01	9.48	98330737	35548586	95.905	87.479			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	13.72	12.05	433285711	118972849	95.239	95.771	95.2	95.8	Y
2,4,5-TP (Silvex)	13.34	11.50	512962804	142663592	106.202	95.303	106	95.3	Y
2,4-D	12.27	10.94	120199716	70724840	102.363	90.094	102	90.1	Y
2,4-DB	14.32	12.54	56308624	14955433	82.234	86.752	82.2	86.8	Y
Dalapon	5.69	4.84	94488641	45115688	93.030	89.716	93.0	89.7	Y
Dicamba	11.14	9.66	324829081	125912523	107.465	93.947	107	93.9	Y
Dichlorprop	11.97	10.75	99401518	34784373	103.955	88.369	104	88.4	Y
Dinoseb	14.47	12.43	317236211	94599607	95.768	94.289	95.8	94.3	Y
MCPA	11.55	10.30	67069694	33858889	10077.204	8447.705	10100	8450	Y
MCPP	11.30	10.01	40064952	21188711	10331.259	8080.309	10300	8080	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 (QT Reviewed)

1st JTC 04/16/21
2nd 4w 04/16/21

Data File : J:\GC34\DATA\040821-HB\04080000035.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-Apr-2021, 05:06:38 Operator: JTC
Sample : PENTA-26J 100PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 09 08:17:11 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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...	11.010	9.477	98330737	35548586	95.905	87.479
		Target Compounds						
1)	m	Dalapon	5.687	4.843	94488641	45115688	93.030	89.716
3)	m	Dicamba	11.140	9.660	324.8E6	125.9E6	107.465	93.947
4)	m	MCPP	11.297	10.007	40064952	21188711	10331.259	8080.309
5)	m	MCPA	11.547	10.303	67069694	33858889	10077.204	8447.705
6)	m	Dichloroprop	11.970	10.747	99401518	34784373	103.955	88.369
7)	m	2,4-D	12.270	10.940	120.2E6	70724840	102.363	90.094
8)	m	2,4,5-TP ...	13.337	11.503	513.0E6	142.7E6	106.202	95.303
9)	m	2,4,5-T	13.717	12.047	433.3E6	119.0E6	95.239	95.771
10)	m	2,4-DB	14.317	12.543	56308624	14955433	82.234	86.752
11)	m	Dinoseb	14.467	12.433	317.2E6	94599607	95.768	94.289

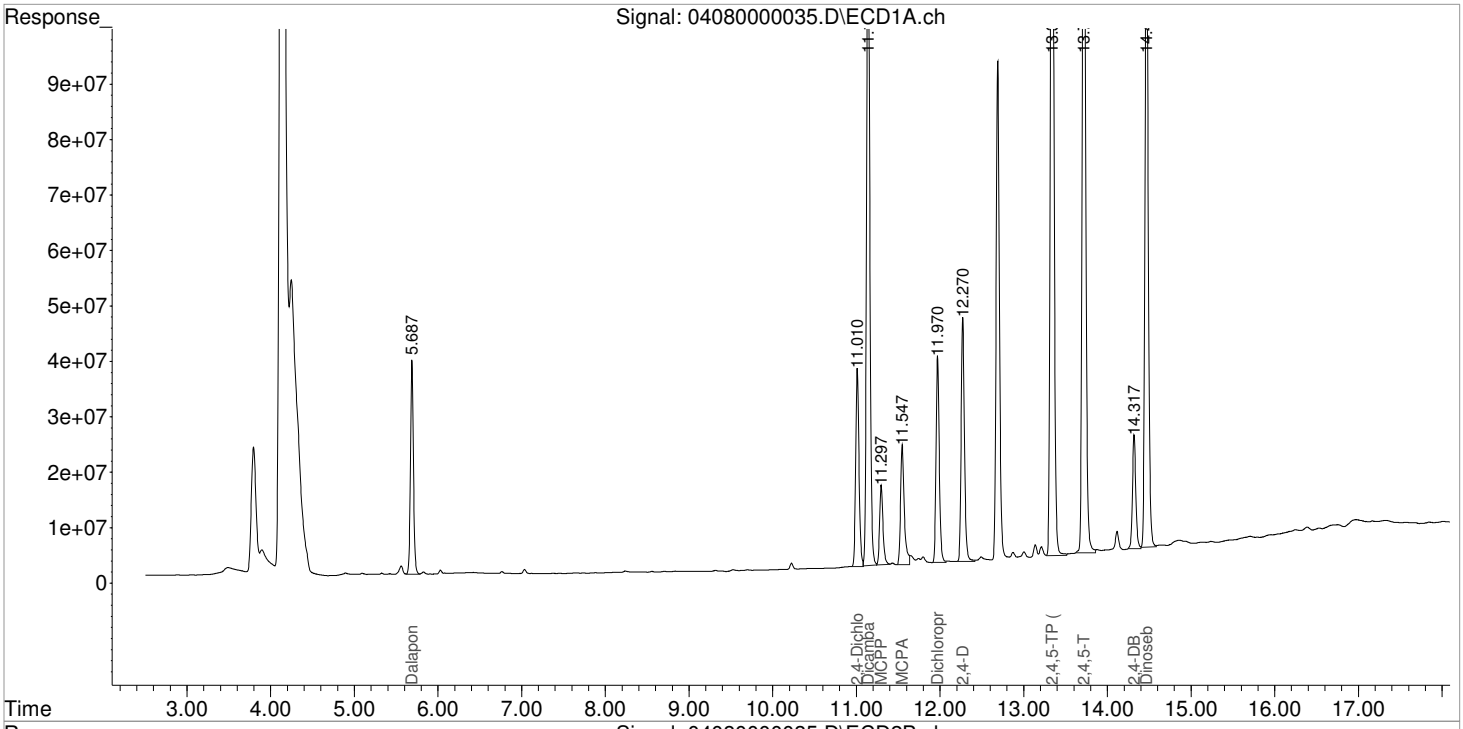
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

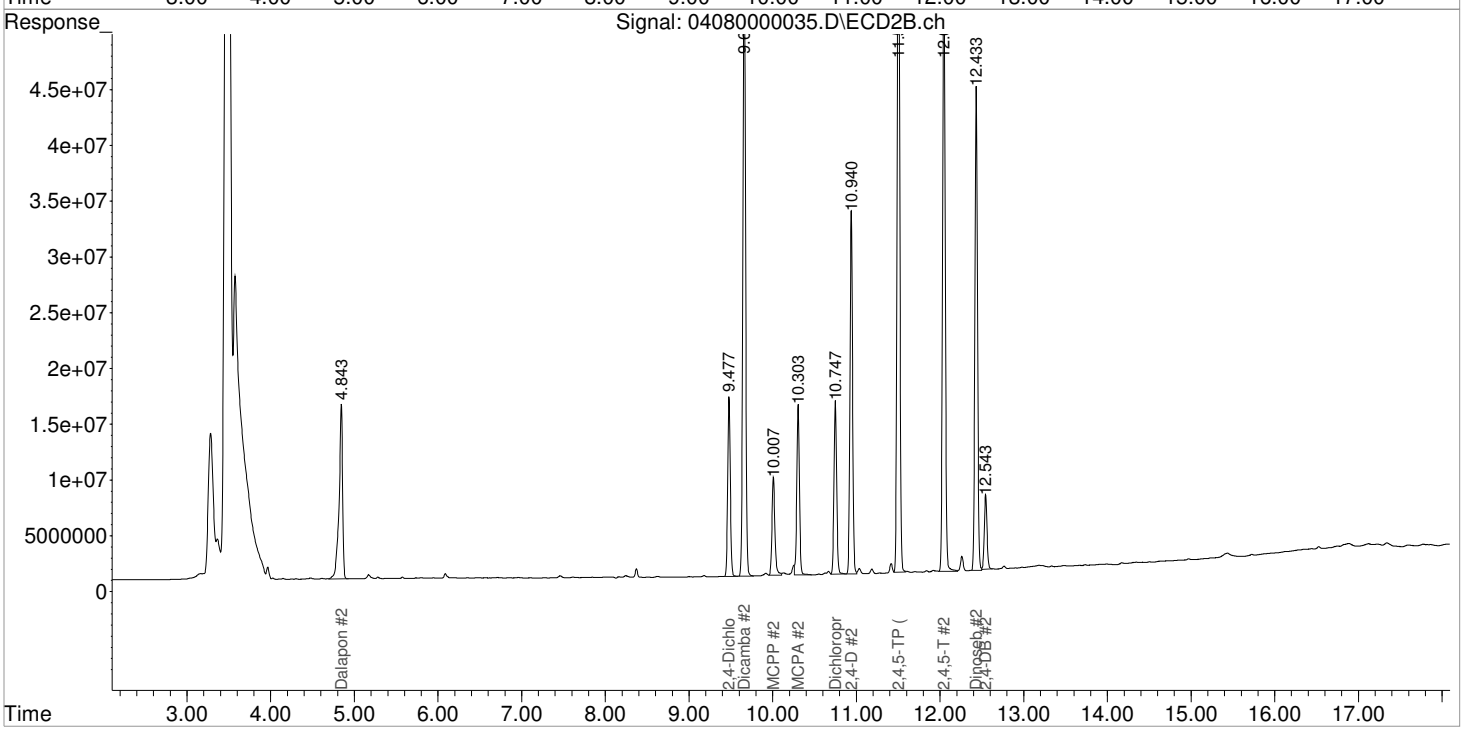
1st JTC 04/16/21
2nd 4w 04/16/21

Data File : J:\GC34\DATA\040821-HB\04080000035.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09-Apr-2021, 05:06:38 Operator: JTC
Sample : PENTA-26J 100PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 09 08:17:11 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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





1st JTC 04/19/21
2nd 4w 04/20/21

Validation Report

Data File: J:\GC34\DATA\041421-HB\04140000003.D\
Lab ID: KQ2106070-01
RunType: CCV
Matrix: Water

Date Acquired: 4/14/21 15:07:33
Batch ID: 719851
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: _____

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Secondary Review: _____

1st JTC 04/19/21
2nd 4w 04/20/21

Quantitation Report

Data File:	J:\GC34\DATA\041421-HB\04140000003.D\	**Instrument:**	K-GC-34
Acqu Date:	4/14/21 15:07:33	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2106070-01	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Water
Prod Code:	HERB	**Collect Date:**	3/30/21	**Receive Date:**	3/31/21

Analysis Lot:	719851	**Prep Lot:**		**Report Group:**	KQ2106070
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100209
		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	10.04	9.68	69536171	36450019	86.177	85.943			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	12.48	12.15	226768520	114812732	90.634	90.896	90.6	90.9	Y
2,4,5-TP (Silvex)	12.19	11.75	286548865	146938518	93.429	92.755	93.4	92.8	Y
2,4-D	11.26	10.89	64008060	34787440	89.334	89.125	89.3	89.1	Y
2,4-DB	13.05	12.67	28755410	14943575	85.541	87.021	85.5	87.0	Y
Dalapon	5.58	5.22	83701778	44398923	87.277	87.501	87.3	87.5	Y
Dicamba	10.27	9.89	237782676	125077367	92.609	92.153	92.6	92.2	Y
Dichlorprop	11.01	10.57	64925930	36048563	89.877	92.282	89.9	92.3	Y
Dinoseb	14.28	13.03	184046228	96246555	90.811	89.791	90.8	89.8	Y
MCPA	10.59	10.20	51500103	24621087	9662.154	9393.356	9660	9390	Y
MCPP	10.42	9.96	31663109	14945853	9594.849	9136.777	9590	9140	Y

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	20.00 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 (QT Reviewed)

1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041421-HB\04140000003.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14-Apr-2021, 15:07:33 Operator: JTC
Sample : PENTA02-26J 100 PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 14 15:46:13 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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...	10.037	9.680	69536171	36450019	86.177	85.943
		Target Compounds						
1)	m	Dalapon	5.577	5.217	83701778	44398923	87.277	87.501
3)	m	Dicamba	10.273	9.893	237.8E6	125.1E6	92.609	92.153
4)	m	MCPP	10.420	9.957	31663109	14945853	9594.849	9136.777
5)	m	MCPA	10.587	10.200	51500103	24621087	9662.154	9393.356
6)	m	Dichloroprop	11.013	10.573	64925930	36048563	89.877	92.282
7)	m	2,4-D	11.260	10.890	64008060	34787440	89.334	89.125
8)	m	2,4,5-TP ...	12.187	11.753	286.5E6	146.9E6	93.429	92.755
9)	m	2,4,5-T	12.480	12.150	226.8E6	114.8E6	90.634	90.896
10)	m	2,4-DB	13.047	12.670	28755410	14943575	85.541	87.021
11)	m	Dinoseb	14.283	13.030	184.0E6	96246555	90.811	89.791

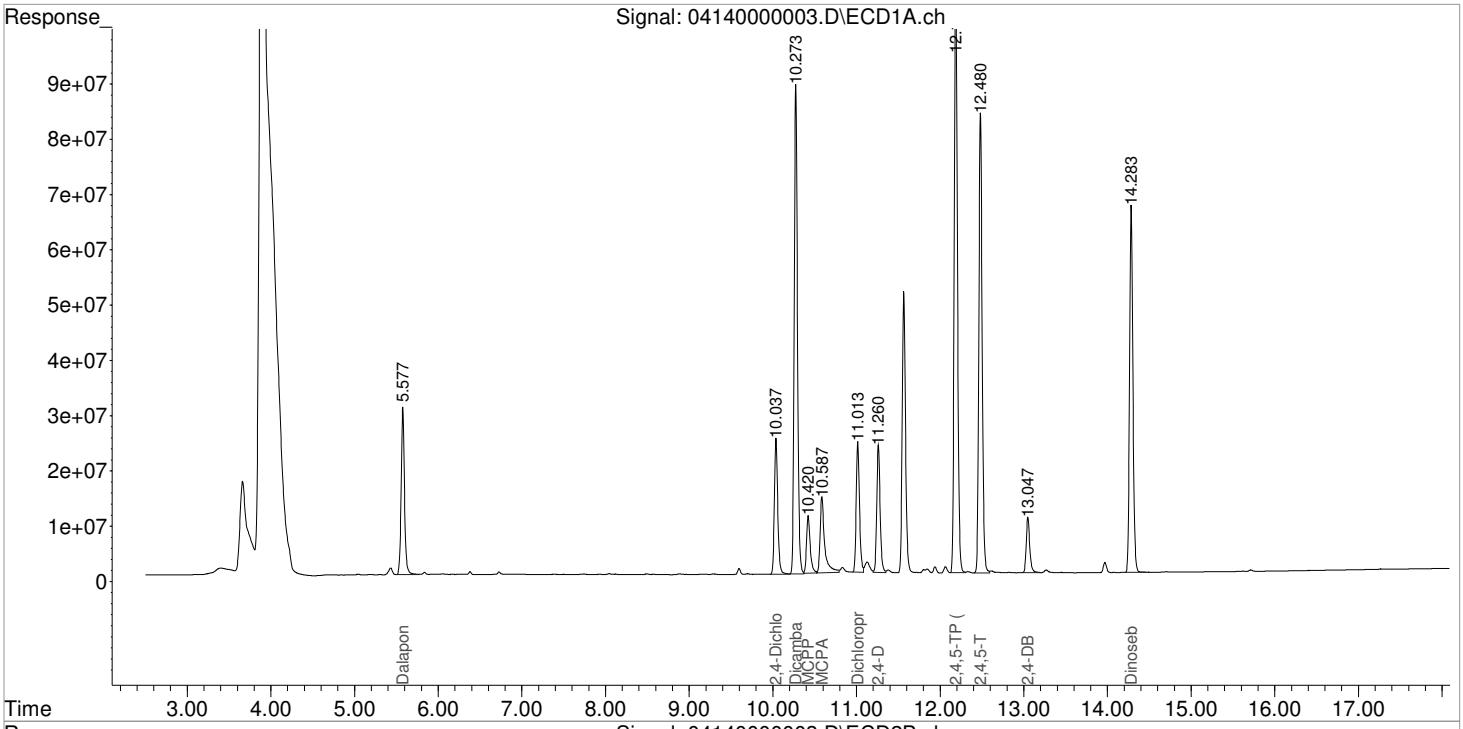
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

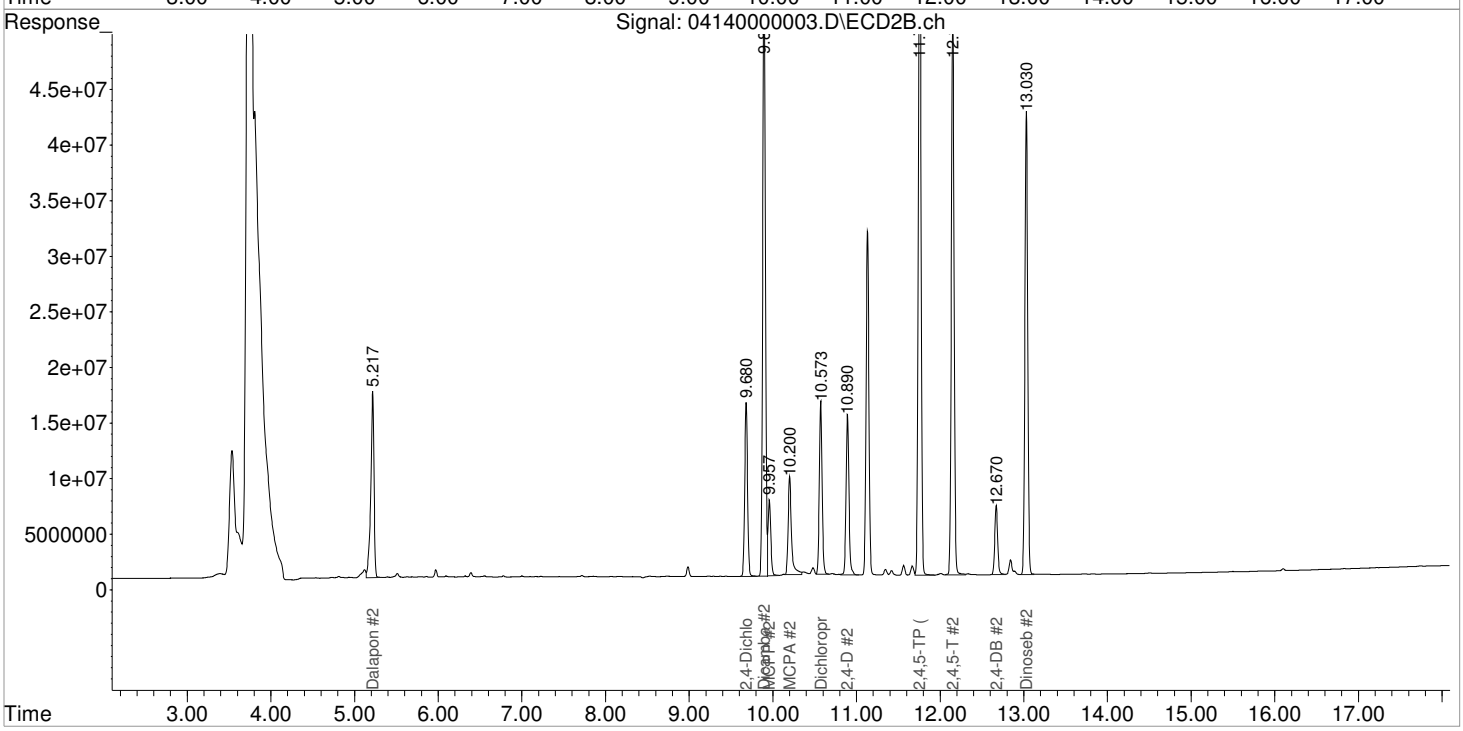
1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041421-HB\04140000003.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14-Apr-2021, 15:07:33 Operator: JTC
Sample : PENTA02-26J 100 PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 14 15:46:13 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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





1st JTC 04/19/21
2nd 4w 04/20/21

Validation Report

Data File: J:\GC34\DATA\041421-HB\04140000011.D\
Lab ID: KQ2106070-03
RunType: CCV
Matrix: Water

Date Acquired: 4/14/21 18:20:21
Batch ID: 719851
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: _____

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Secondary Review: _____

1st JTC 04/19/21
2nd 4w 04/20/21

Quantitation Report

Data File:	J:\GC34\DATA\041421-HB\04140000011.D\	**Instrument:**	K-GC-34
Acqu Date:	4/14/21 18:20:21	**Vial:**	3
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2106070-03	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Water
Prod Code:	HERB	**Collect Date:**	3/30/21	**Receive Date:**	3/31/21

Analysis Lot:	719851	**Prep Lot:**		**Report Group:**	KQ2106070
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100209
		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	10.03	9.68	72679654	37768067	90.072	89.051			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	12.48	12.14	240228731	119229255	96.013	94.392	96.0	94.4	Y
2,4,5-TP (Silvex)	12.18	11.75	298441254	151526110	97.306	95.651	97.3	95.7	Y
2,4-D	11.26	10.89	67504213	36254794	94.213	92.884	94.2	92.9	Y
2,4-DB	13.04	12.66	30309605	15479341	90.165	90.141	90.2	90.1	Y
Dalapon	5.57	5.21	85558099	45283406	89.212	89.244	89.2	89.2	Y
Dicamba	10.27	9.89	245342261	128855647	95.553	94.937	95.6	94.9	Y
Dichlorprop	11.01	10.57	67145010	36477335	92.949	93.434	92.9	93.4	Y
Dinoseb	14.28	13.02	189439890	97429359	93.472	90.895	93.5	90.9	Y
MCPA	10.58	10.19	47273902	23925848	8739.467	9102.360	8740	9100	Y
MCPP	10.42	9.95	31008355	15496165	9377.552	9495.646	9380	9500	Y

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	20.00 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 (QT Reviewed)

1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041421-HB\04140000011.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14-Apr-2021, 18:20:21 Operator: JTC
Sample : PENTA02-26J 100 PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 15 08:02:08 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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...	10.033	9.677	72679654	37768067	90.072	89.051
		Target Compounds						
1)	m	Dalapon	5.573	5.213	85558099	45283406	89.212	89.244
3)	m	Dicamba	10.270	9.890	245.3E6	128.9E6	95.553	94.937
4)	m	MCPP	10.420	9.953	31008355	15496165	9377.552	9495.646
5)	m	MCPA	10.583	10.193	47273902	23925848	8739.467	9102.360
6)	m	Dichloroprop	11.013	10.567	67145010	36477335	92.949	93.434
7)	m	2,4-D	11.257	10.887	67504213	36254794	94.213	92.884
8)	m	2,4,5-TP ...	12.183	11.750	298.4E6	151.5E6	97.306	95.651
9)	m	2,4,5-T	12.477	12.143	240.2E6	119.2E6	96.013	94.392
10)	m	2,4-DB	13.043	12.663	30309605	15479341	90.165	90.141
11)	m	Dinoseb	14.280	13.023	189.4E6	97429359	93.472	90.895

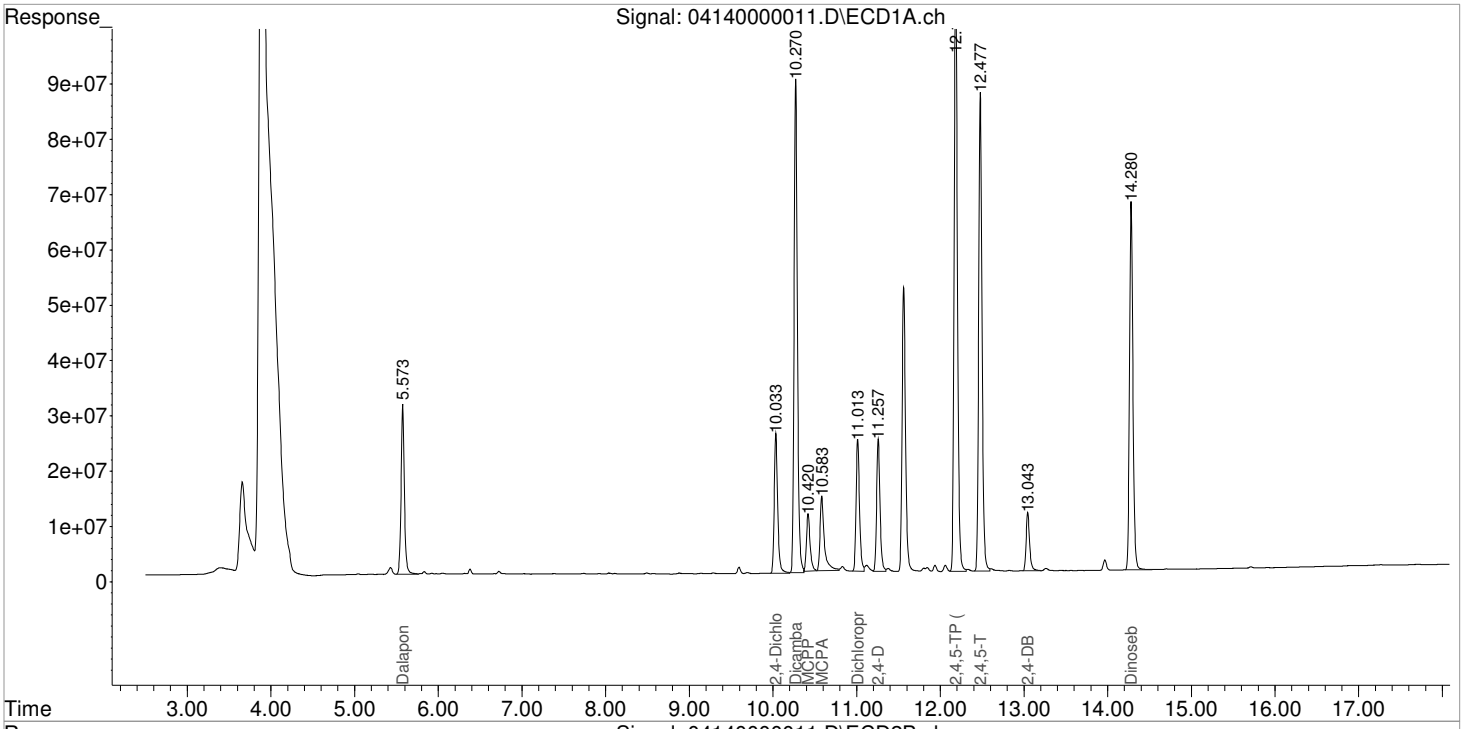
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

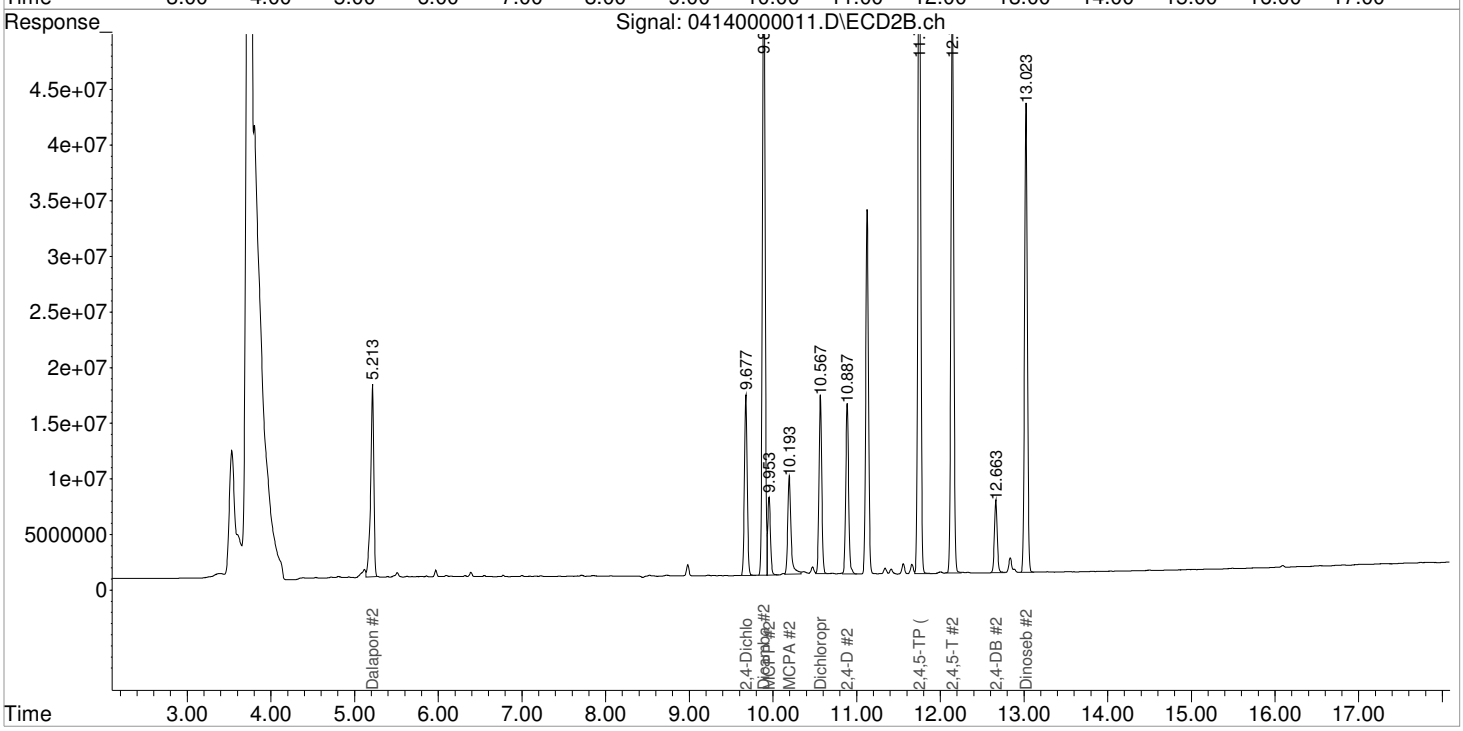
1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041421-HB\04140000011.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14-Apr-2021, 18:20:21 Operator: JTC
Sample : PENTA02-26J 100 PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 15 08:02:08 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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





1st JTC 04/19/21
2nd 4w 04/20/21

Validation Report

Data File: J:\GC34\DATA\041521-HB\04150000003.D\
Lab ID: KQ2106306-01
RunType: CCV
Matrix: Water

Date Acquired: 4/15/21 11:23:52
Batch ID: 719860
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: _____

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Secondary Review: _____

1st JTC 04/19/21
2nd 4w 04/20/21

Quantitation Report

Data File:	J:\GC34\DATA\041521-HB\04150000003.D\	**Instrument:**	K-GC-34
Acqu Date:	4/15/21 11:23:52	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2106306-01	**Raw Units:**	ppb

Bottle ID:		**Tier:**	I	**Matrix:**	Water
Prod Code:	HERB	**Collect Date:**	3/30/21	**Receive Date:**	4/1/21

Analysis Lot:	719860	**Prep Lot:**		**Report Group:**	KQ2106306
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100209
		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	10.04	9.68	70253049	36968914	87.065	87.167			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	12.48	12.15	230139864	116296121	91.981	92.070	92.0	92.1	Y
2,4,5-TP (Silvex)	12.19	11.75	289679393	148691964	94.449	93.862	94.4	93.9	Y
2,4-D	11.26	10.89	65746462	35524110	91.760	91.012	91.8	91.0	Y
2,4-DB	13.05	12.67	29070010	15226344	86.477	88.668	86.5	88.7	Y
Dalapon	5.58	5.22	83837867	44786592	87.418	88.265	87.4	88.3	Y
Dicamba	10.28	9.89	236114149	125113652	91.959	92.180	92.0	92.2	Y
Dichlorprop	11.02	10.57	66203115	36528756	91.645	93.572	91.6	93.6	Y
Dinoseb	14.29	13.03	185516366	96540934	91.536	90.066	91.5	90.1	Y
MCPA	10.59	10.20	47889027	24367191	8872.678	9287.086	8870	9290	Y
MCPP	10.42	9.96	30242518	15635647	9123.389	9586.604	9120	9590	Y

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	20.00 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 (QT Reviewed)

1st JTC 04/19/21
2nd 4w 04/20/21

Data File : J:\GC34\DATA\041521-HB\04150000003.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15-Apr-2021, 11:23:52 Operator: JTC
Sample : PENTA02-26J 100 PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 15 13:22:04 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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...	10.040	9.680	70253049	36968914	87.065	87.167
		Target Compounds						
1)	m	Dalapon	5.580	5.220	83837867	44786592	87.418	88.265
3)	m	Dicamba	10.277	9.893	236.1E6	125.1E6	91.959	92.180
4)	m	MCPP	10.423	9.957	30242518	15635647	9123.389	9586.604
5)	m	MCPA	10.590	10.200	47889027	24367191	8872.678	9287.086
6)	m	Dichloroprop	11.017	10.570	66203115	36528756	91.645	93.572
7)	m	2,4-D	11.263	10.890	65746462	35524110	91.760	91.012
8)	m	2,4,5-TP ...	12.190	11.753	289.7E6	148.7E6	94.449	93.862
9)	m	2,4,5-T	12.483	12.150	230.1E6	116.3E6	91.981	92.070
10)	m	2,4-DB	13.050	12.667	29070010	15226344	86.477	88.668
11)	m	Dinoseb	14.287	13.027	185.5E6	96540934	91.536	90.066

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

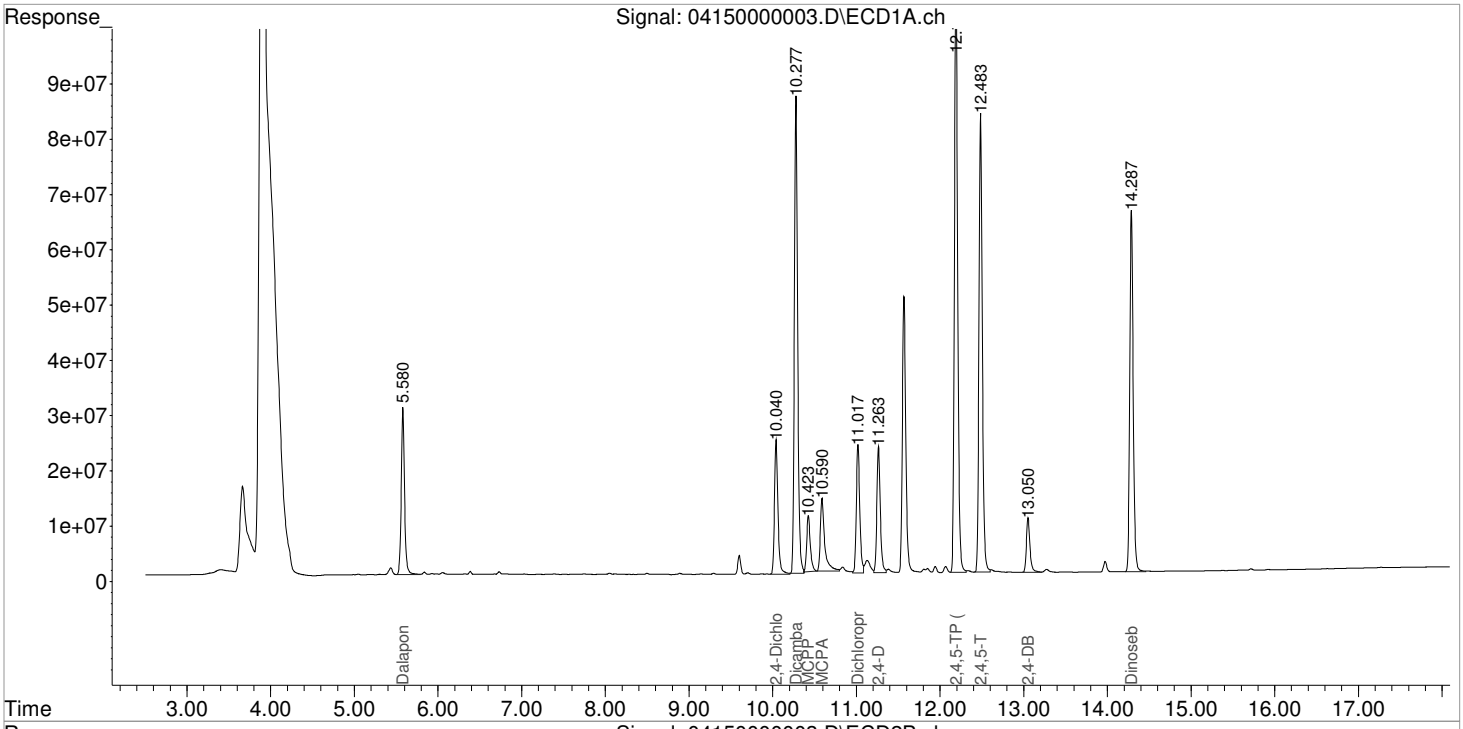
Quantitation Report (QT Reviewed)

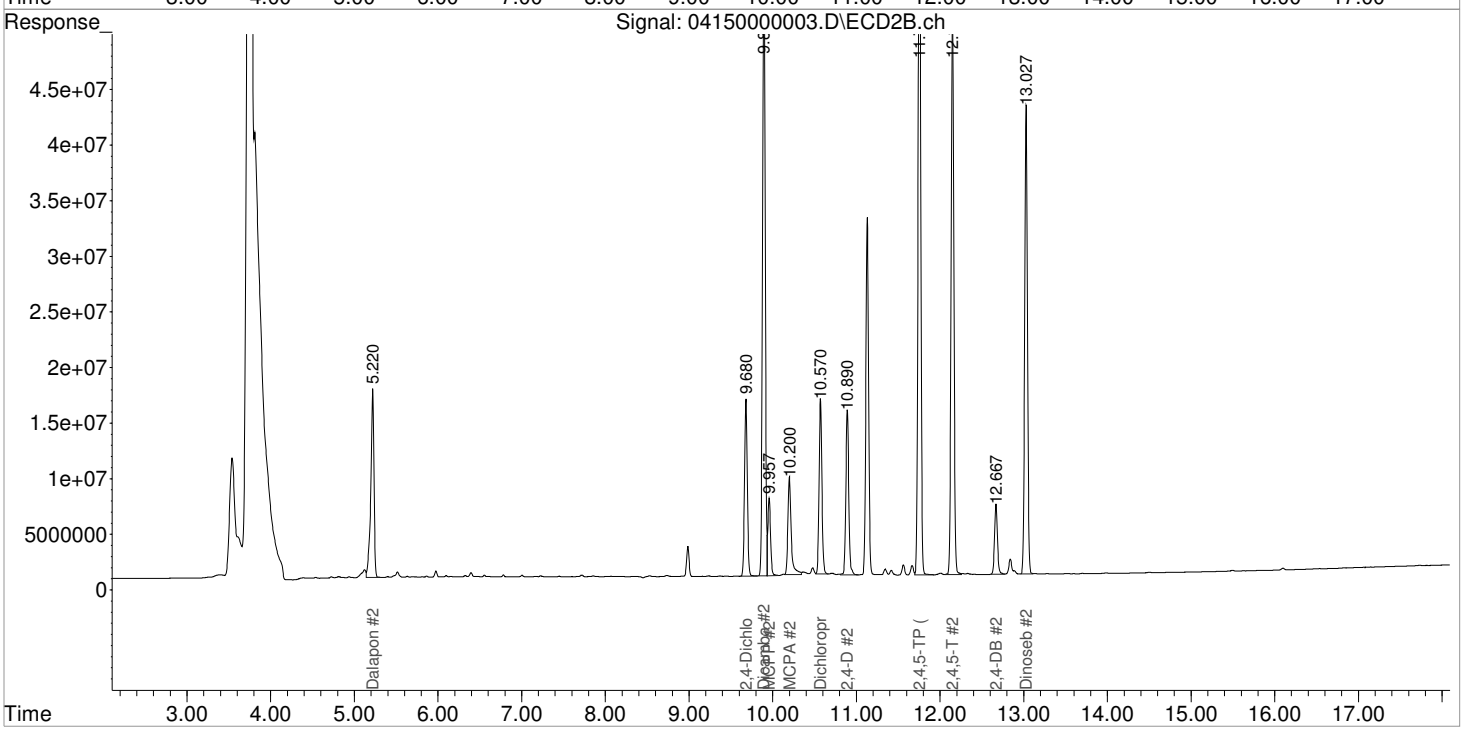
1st JTC 04/19/21
2nd 4W 04/20/21

Data File : J:\GC34\DATA\041521-HB\04150000003.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15-Apr-2021, 11:23:52 Operator: JTC
Sample : PENTA02-26J 100 PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 15 13:22:04 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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





1st JTC 04/16/21
2nd 4w 04/16/21

Validation Report

Data File: J:\GC34\DATA\041521-HB\04150000011.D\
Lab ID: KQ2106185-01
RunType: CCV
Matrix: Soil

Date Acquired: 4/15/21 14:36:29
Batch ID: 720005
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: _____

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Secondary Review: _____

1st JTC 04/19/21
2nd 4w 04/20/21

Validation Report

Data File: J:\GC34\DATA\041521-HB\04150000011.D\
Lab ID: KQ2106306-03
RunType: CCV
Matrix: Water

Date Acquired: 4/15/21 14:36:29
Batch ID: 719860
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: _____

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Secondary Review: _____

1st JTC 04/16/21
2nd [illegible] 04/16/21

Quantitation Report

Data File:	J:\GC34\DATA\041521-HB\04150000011.D\	**Instrument:**	K-GC-34
Acqu Date:	4/15/21 14:36:29	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2106185-01	**Raw Units:**	ppb

Bottle ID:		**Tier:**	II	**Matrix:**	Soil
Prod Code:	HERB	**Collect Date:**	4/5/21	**Receive Date:**	4/7/21

Analysis Lot:	720005	**Prep Lot:**		**Report Group:**	KQ2106185
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100209
		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	10.04	9.68	73062631	38531738	90.547	90.852			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	12.48	12.15	249075681	124930439	99.549	98.906	99.5	98.9	Y
2,4,5-TP (Silvex)	12.19	11.75	307982376	156995520	100.417	99.103	100	99.1	Y
2,4-D	11.26	10.89	68568790	37779382	95.699	96.790	95.7	96.8	Y
2,4-DB	13.05	12.67	31958080	16321564	95.068	95.045	95.1	95.0	Y
Dalapon	5.58	5.22	86036831	46284915	89.711	91.217	89.7	91.2	Y
Dicamba	10.28	9.89	244882531	129372680	95.374	95.318	95.4	95.3	Y
Dichlorprop	11.02	10.57	67936863	37359061	94.045	95.804	94.0	95.8	Y
Dinoseb	14.28	13.03	194759170	101482501	96.097	94.676	96.1	94.7	Y
MCPA	10.59	10.20	47806147	24068299	8854.709	9161.983	8850	9160	Y
MCPP	10.42	9.96	30963871	15566999	9362.789	9541.838	9360	9540	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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1st JTC 04/19/21
2nd 4w 04/20/21

Quantitation Report

Data File:	J:\GC34\DATA\041521-HB\04150000011.D\	**Instrument:**	K-GC-34
Acqu Date:	4/15/21 14:36:29	**Vial:**	6
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2106306-03	**Raw Units:**	ppb

Bottle ID:		**Tier:**	I	**Matrix:**	Water
Prod Code:	HERB	**Collect Date:**	3/30/21	**Receive Date:**	4/1/21

Analysis Lot:	719860	**Prep Lot:**		**Report Group:**	KQ2106306
Analysis Method:	8151A	**Prep Method:**			
		Prep Date:			

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2100209
		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	10.04	9.68	73062631	38531738	90.547	90.852			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	12.48	12.15	249075681	124930439	99.549	98.906	99.5	98.9	Y
2,4,5-TP (Silvex)	12.19	11.75	307982376	156995520	100.417	99.103	100	99.1	Y
2,4-D	11.26	10.89	68568790	37779382	95.699	96.790	95.7	96.8	Y
2,4-DB	13.05	12.67	31958080	16321564	95.068	95.045	95.1	95.0	Y
Dalapon	5.58	5.22	86036831	46284915	89.711	91.217	89.7	91.2	Y
Dicamba	10.28	9.89	244882531	129372680	95.374	95.318	95.4	95.3	Y
Dichlorprop	11.02	10.57	67936863	37359061	94.045	95.804	94.0	95.8	Y
Dinoseb	14.28	13.03	194759170	101482501	96.097	94.676	96.1	94.7	Y
MCPA	10.59	10.20	47806147	24068299	8854.709	9161.983	8850	9160	Y
MCPP	10.42	9.96	30963871	15566999	9362.789	9541.838	9360	9540	Y

Prep Amount:	1000 mL	**Dilution:**	1
Prep Final Amount:	20.00 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 (QT Reviewed)

1st JTC 04/16/21
2nd 4/16/21

Data File : J:\GC34\DATA\041521-HB\04150000011.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15-Apr-2021, 14:36:29 Operator: JTC
Sample : PENTA02-26J 100 PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 15 16:34:34 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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...	10.040	9.680	73062631	38531738	90.547	90.852
		Target Compounds						
1)	m	Dalapon	5.580	5.217	86036831	46284915	89.711	91.217
3)	m	Dicamba	10.277	9.893	244.9E6	129.4E6	95.374	95.318
4)	m	MCPP	10.423	9.957	30963871	15566999	9362.789	9541.838
5)	m	MCPA	10.587	10.197	47806147	24068299	8854.709	9161.983
6)	m	Dichloroprop	11.017	10.570	67936863	37359061	94.045	95.804
7)	m	2,4-D	11.260	10.890	68568790	37779382	95.699	96.790
8)	m	2,4,5-TP ...	12.187	11.750	308.0E6	157.0E6	100.417	99.103
9)	m	2,4,5-T	12.480	12.147	249.1E6	124.9E6	99.549	98.906
10)	m	2,4-DB	13.047	12.667	31958080	16321564	95.068	95.045
11)	m	Dinoseb	14.283	13.027	194.8E6	101.5E6	96.097	94.676

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

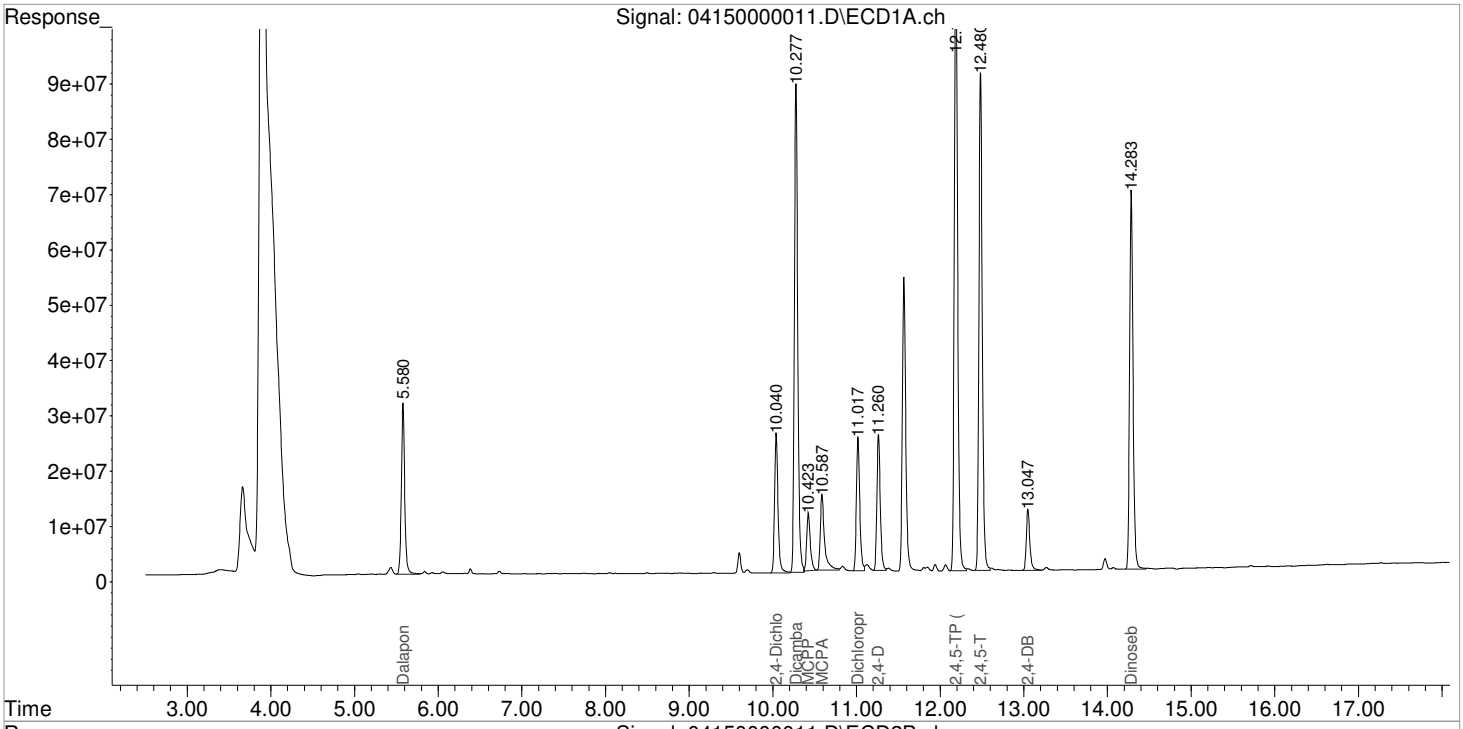
Quantitation Report (QT Reviewed)

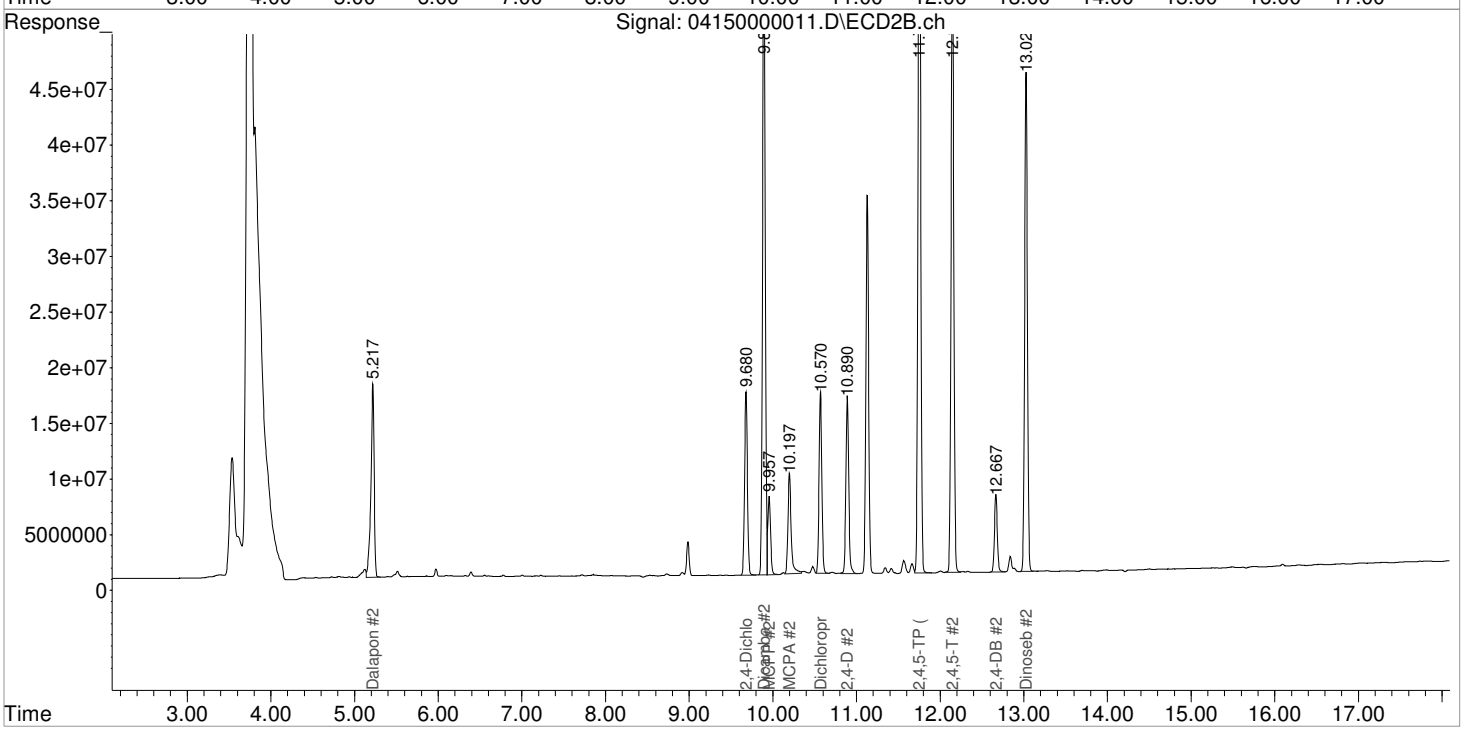
1st JTC 04/16/21
2nd 4w 04/16/21

Data File : J:\GC34\DATA\041521-HB\04150000011.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15-Apr-2021, 14:36:29 Operator: JTC
Sample : PENTA02-26J 100 PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 15 16:34:34 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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





Calibration ID: KC2100209

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Location	SampleName DataFile LimsID	Method	Inj	SampleType	InjVolume
1	Vial 100	HB PRIMER	8151A-17	1	Sample	
2	Vial 100	HB PRIMER	8151A-17	1	Sample	
3	Vial 1	IB	8151A-17	1	Sample	
4	Vial 2	PENTA02-27F 10 PPB	8151A-17	1	Sample	
5	Vial 3	PENTA02-27G 25 PPB	8151A-17	1	Sample	
6	Vial 4	PENTA02-27H 75 PPB	8151A-17	1	Sample	
7	Vial 5	PENTA02-27I 100 PPB	8151A-17	1	Sample	
8	Vial 6	PENTA02-27J 125 PPB	8151A-17	1	Sample	
9	Vial 7	PENTA02-27K 150 PPB	8151A-17	1	Sample	
10	Vial 8	PENTA02-27L 175 PPB	8151A-17	1	Sample	
11	Vial 9	PENTA02-27M 200 PPB	8151A-17	1	Sample	
12	Vial 10	PENTA02-27N 100 PPB ICV	8151A-17	1	Sample	
13	Vial 11	PENTA02-26J 100 PPB CCV	8151A-17	1	Sample	
14	Vial 1	IB	8151A-17	1	Sample	
15	Vial 12	DIAZO CHK	8151A-17	1	Sample	
16	Vial 11	PENTA02-26J 100 PPB CCV	8151A-17	1	Sample	
17	Vial 1	IB	8151A-17	1	Sample	

Sequence Table (Back Injector):

No entries - empty table!

Quantitation Report (QT Reviewed)

1st JTC 04/13/21
2nd 4w 04/14/21

Data File : J:\GC34\DATA\041321-HB\04130000003.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13-Apr-2021, 10:50:55 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 13 17:06:05 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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	9.710	0	73481	N.D.	0.173 #
		Target Compounds						
1)	m	Dalapon	0.000	5.170f	0	58558	N.D.	0.115 #
3)	m	Dicamba	0.000	0.000	0	0	N.D.	N.D.
4)	m	MCPP	10.413	0.000	46497	0	N.D.	N.D.
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D.
6)	m	Dichloroprop	0.000	10.597	0	1935819	N.D.	0.612 #
7)	m	2,4-D	0.000	0.000	0	0	N.D.	N.D.
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.

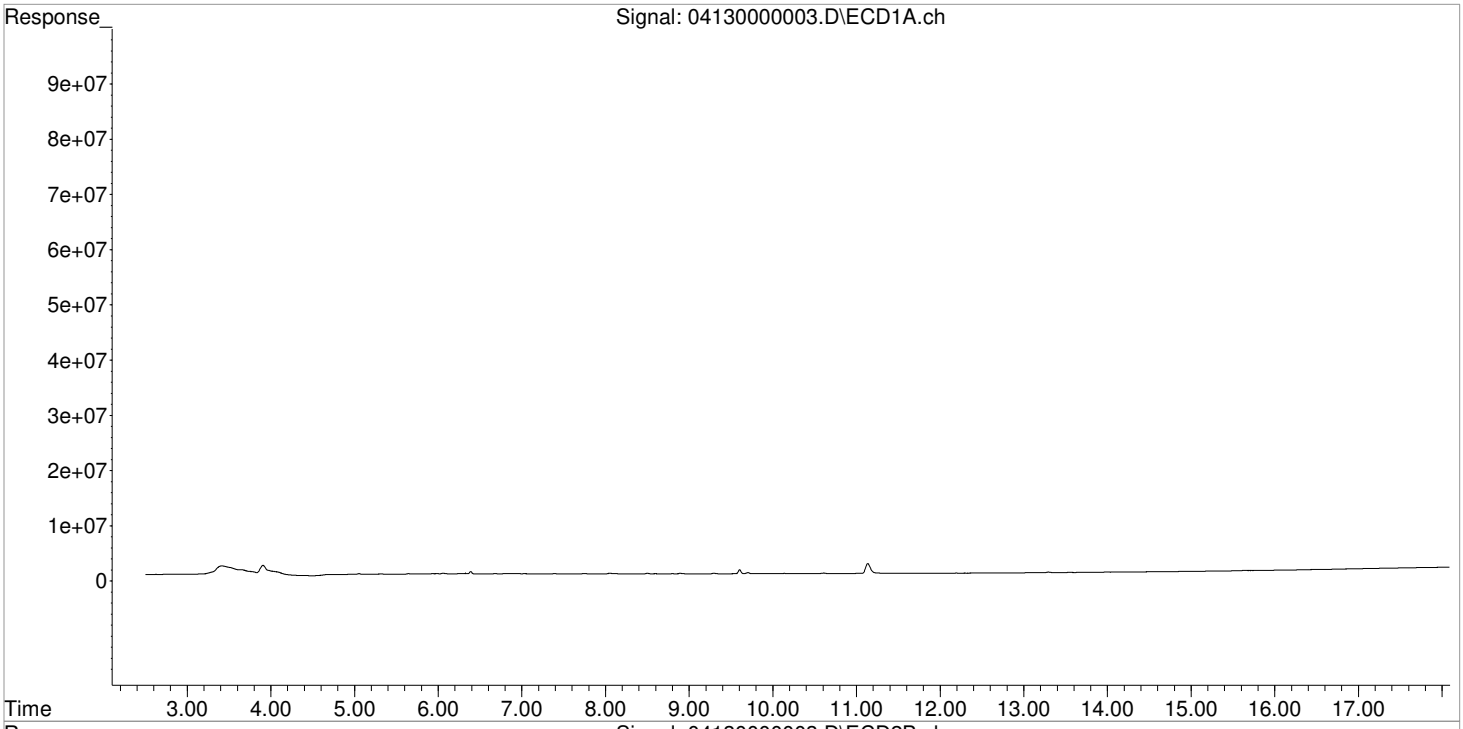
Quantitation Report (QT Reviewed)

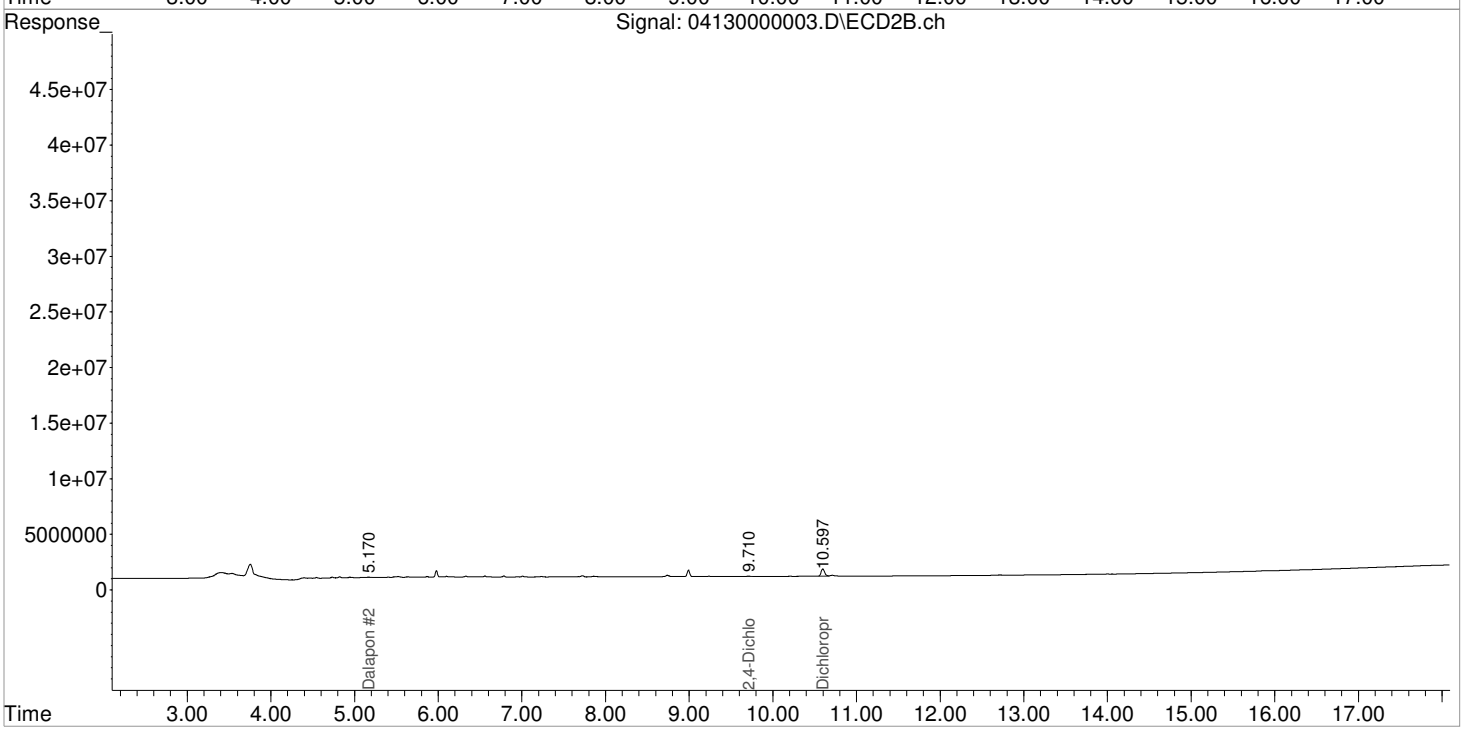
1st JTC 04/13/21
2nd 4W 04/14/21

Data File : J:\GC34\DATA\041321-HB\04130000003.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13-Apr-2021, 10:50:55 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 13 17:06:05 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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





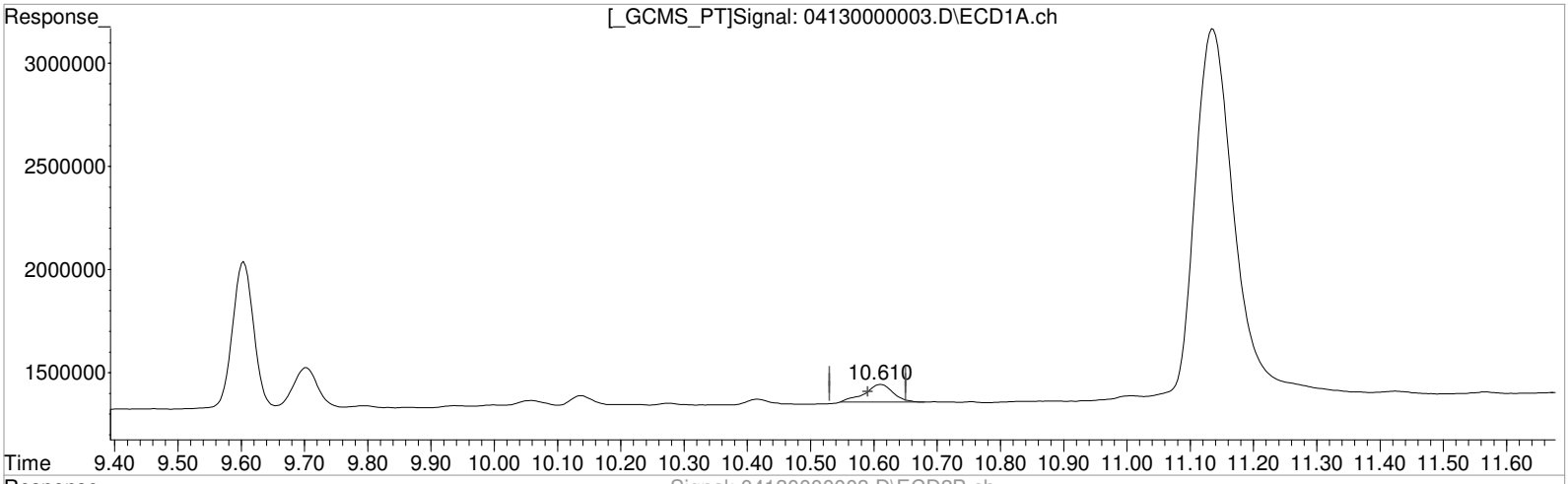
Quantitation Report (Qedit)

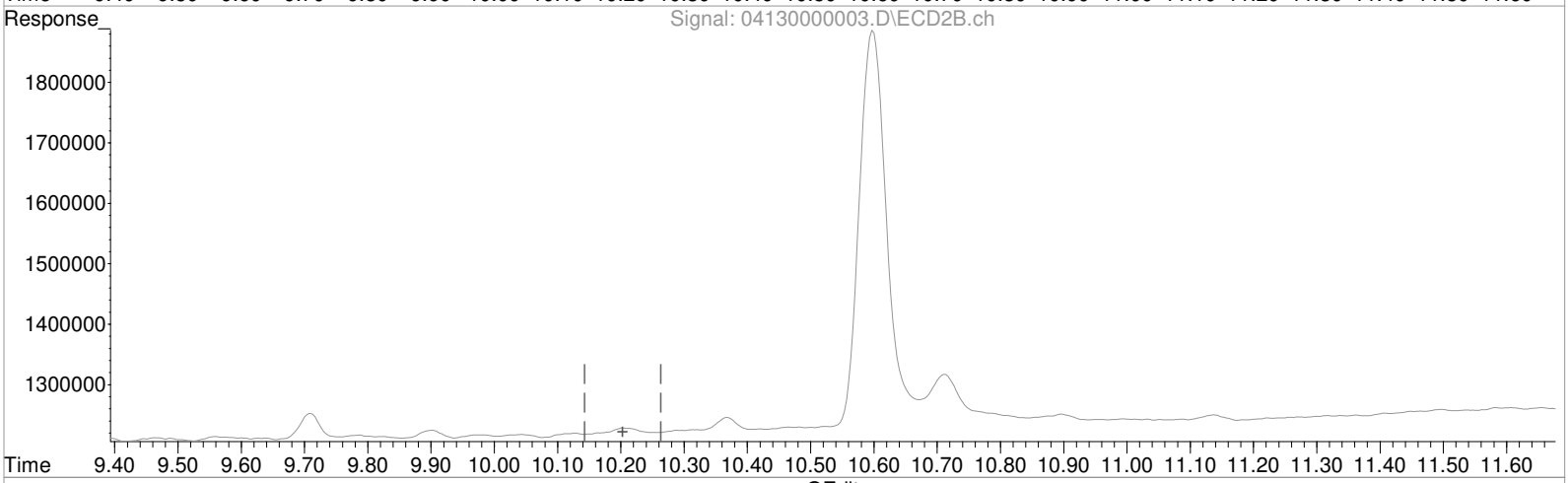
1st JTC 04/13/21
2nd 4W 04/14/21

Data File : J:\GC34\DATA\041321-HB\04130000003.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13-Apr-2021, 10:50:55 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 13 17:04:34 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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)

10.610min 115776.374 ppb

response 267329

(5) MCPA #2 (m)

0.000min 0.000 ppb

response 0

Manual Integration:

Before

04/13/21

(+) = Expected Retention Time

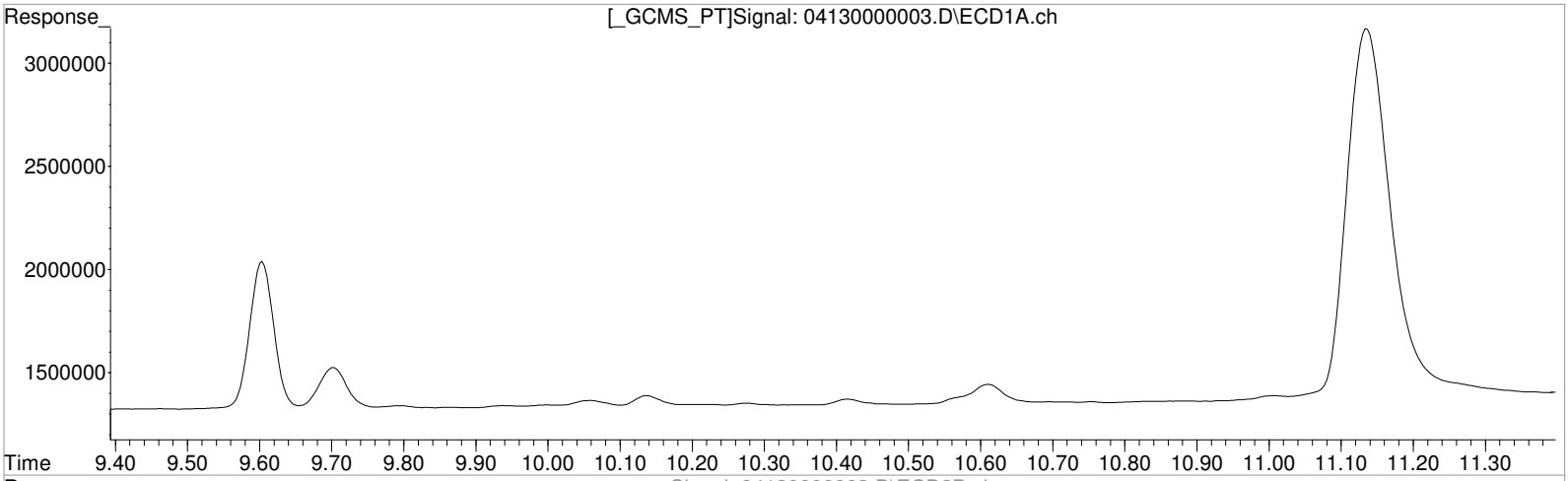
Quantitation Report (Qedit)

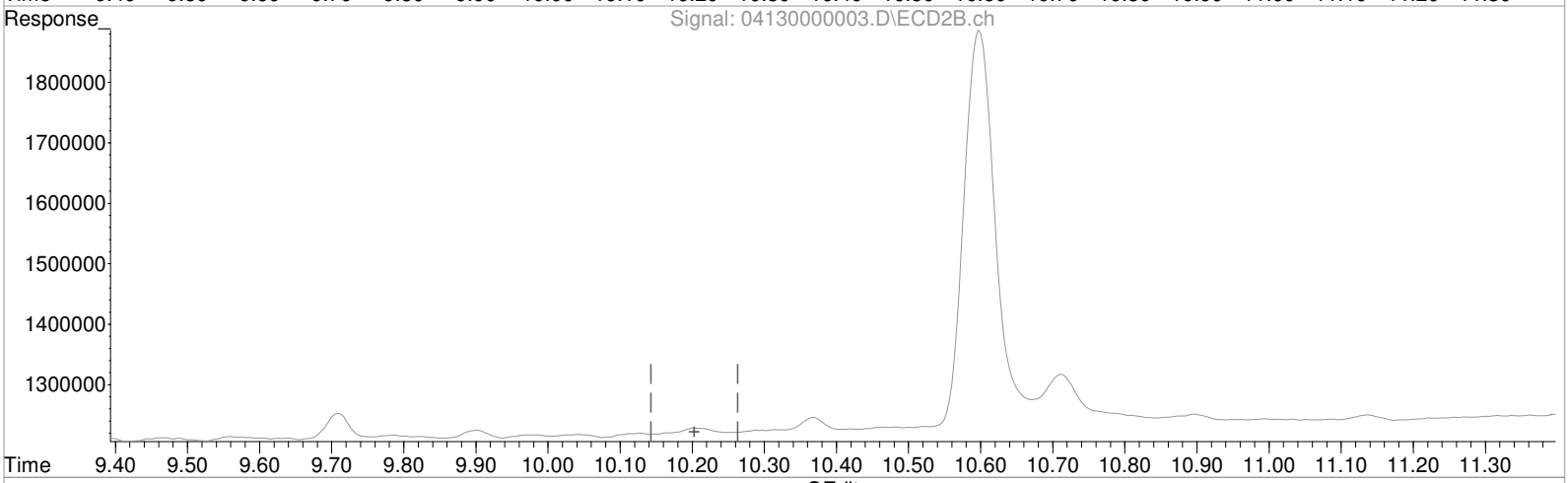
1st JTC 04/13/21
2nd 4W 04/14/21

Data File : J:\GC34\DATA\041321-HB\04130000003.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13-Apr-2021, 10:50:55 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 13 17:04:34 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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)

0.000min 0.000 ppb d

response 0

(5) MCPA #2 (m)

0.000min 0.000 ppb

response 0

Manual Integration:

After

Quad Error

04/13/21

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st JTC 04/13/21
2nd 4w 04/14/21

Data File : J:\GC34\DATA\041321-HB\04130000004.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13-Apr-2021, 11:15:00 Operator: JTC
Sample : PENTA02-27F 10 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 13 14:32:21 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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...	10.040	9.680	7281257	4323743	7.102	10.640	#
		Target Compounds							
1)	m	Dalapon	5.580	5.220	9184237	5273861	9.042	10.488	
3)	m	Dicamba	10.273	9.897	20964565	12346446	6.936	9.212	#
4)	m	MCPP	10.423	9.960	4755317	2177704	375.148	298.762	
5)	m	MCPA	10.590	10.200	8339943	3768814	882.251	940.309	
6)	m	Dichloroprop	11.017	10.573	6995129	5467288	7.316	13.889	#
7)	m	2,4-D	11.263	10.893	6378519	3864400	5.432	4.923	
8)	m	2,4,5-TP ...	12.187	11.753	23719683	13541360	4.911	9.046	#
9)	m	2,4,5-T	12.483	12.150	19084442	10878300	4.195	8.757	#
10)	m	2,4-DB	13.050	12.670	3195987	1764066	4.667	10.233	#
11)	m	Dinoseb	14.283	13.030	18132036	10727723	5.474	10.693	#

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

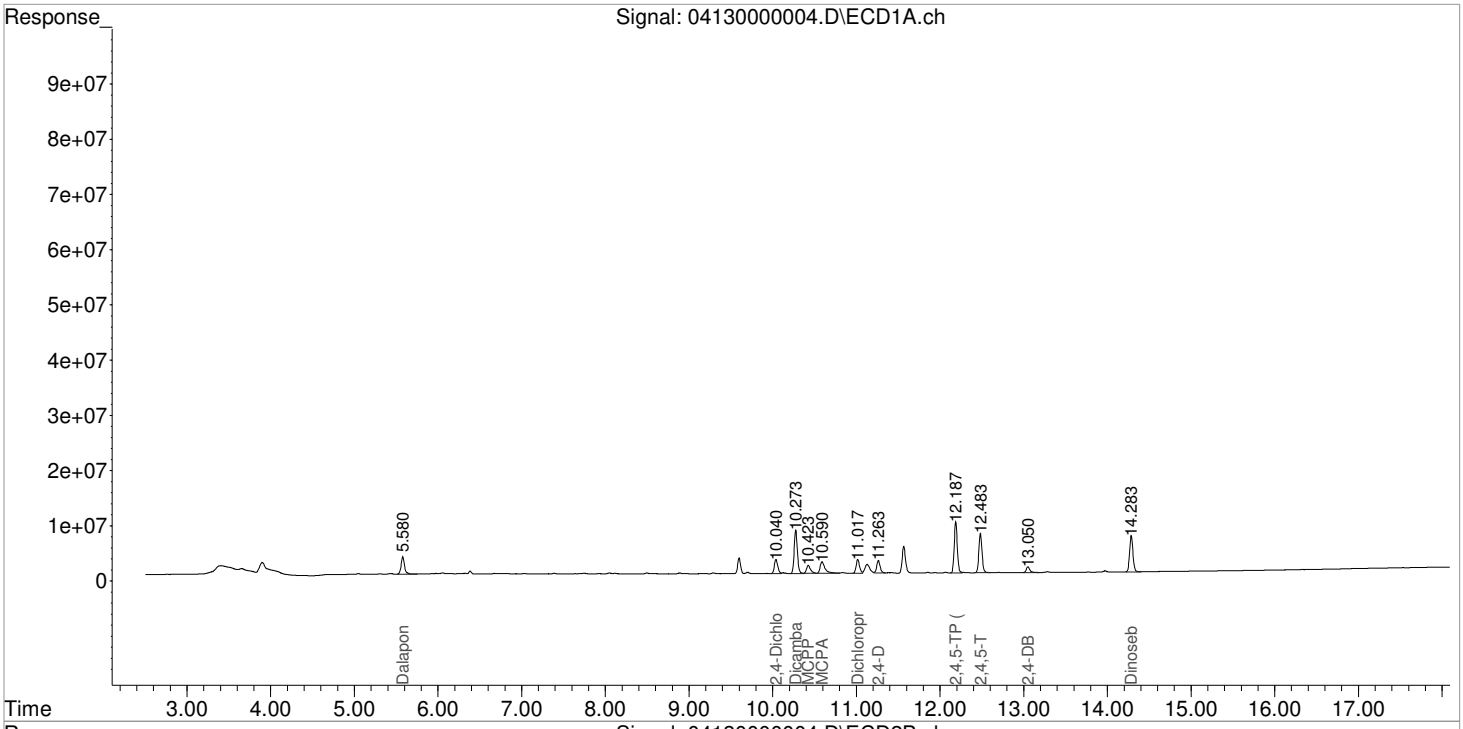
Quantitation Report (QT Reviewed)

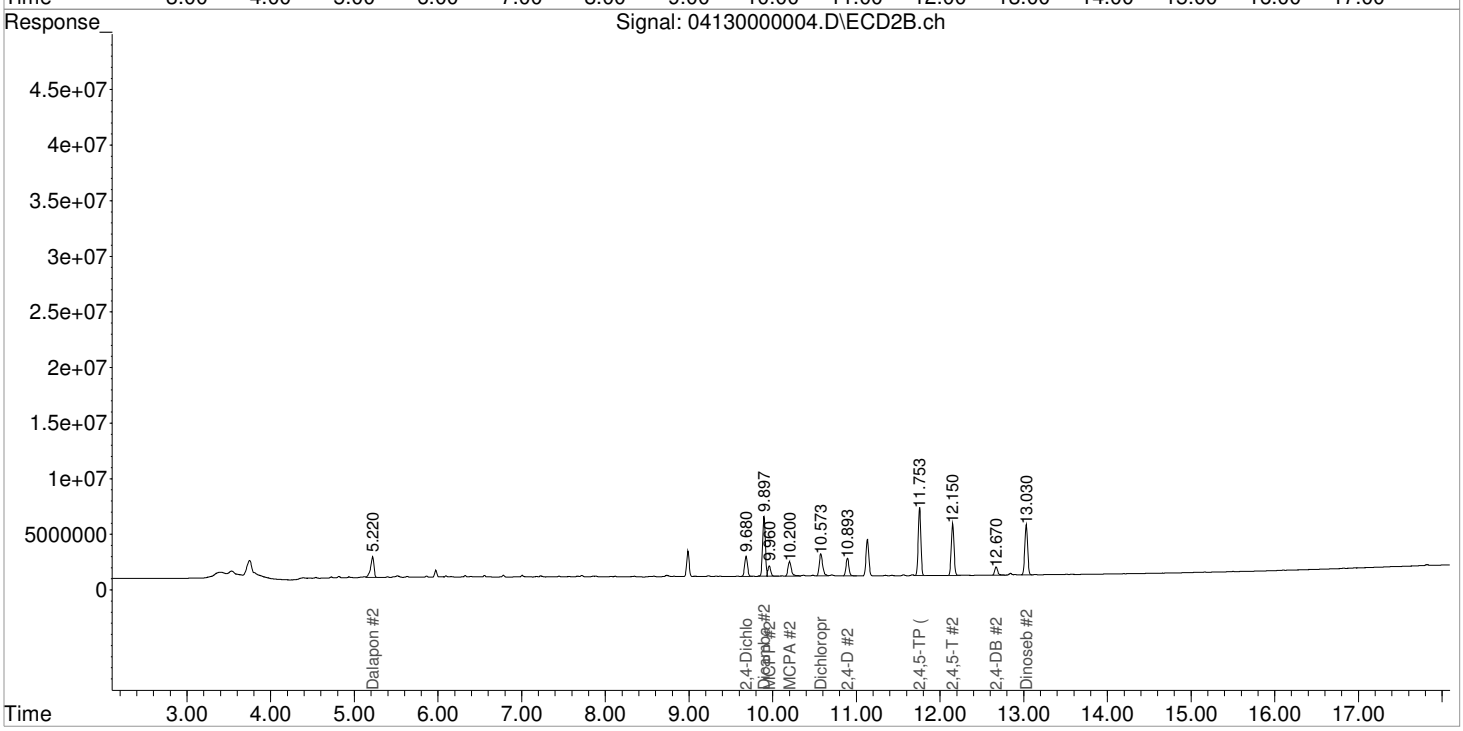
1st JTC 04/13/21
2nd 4W 04/14/21

Data File : J:\GC34\DATA\041321-HB\04130000004.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13-Apr-2021, 11:15:00 Operator: JTC
Sample : PENTA02-27F 10 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 13 14:32:21 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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





Quantitation Report (QT Reviewed)

1st JTC 04/13/21
2nd 4w 04/14/21

Data File : J:\GC34\DATA\041321-HB\04130000005.D Vial: 3
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13-Apr-2021, 11:39:12 Operator: JTC
Sample : PENTA02-27G 25 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 13 14:32:24 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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...	10.040	9.683	17778169	9791653	17.340	24.095	#
		Target Compounds							
1)	m	Dalapon	5.580	5.220	21450139	11936156	21.119	23.736	
3)	m	Dicamba	10.277	9.897	54302755	30141311	17.965	22.489	#
4)	m	MCPP	10.423	9.960	9349740	4491034	1670.618	1185.831	#
5)	m	MCPA	10.590	10.203	15563298	7616118	2013.167	1900.202	
6)	m	Dichloroprop	11.017	10.573	16223242	10309733	16.966	26.192	#
7)	m	2,4-D	11.263	10.893	15029989	8941006	12.800	11.390	
8)	m	2,4,5-TP ...	12.187	11.757	64428861	34507208	13.339	23.052	#
9)	m	2,4,5-T	12.483	12.150	51372056	27080555	11.292	21.799	#
10)	m	2,4-DB	13.050	12.670	7449482	4046403	10.879	23.472	#
11)	m	Dinoseb	14.287	13.030	44768393	24963259	13.515	24.881	#

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

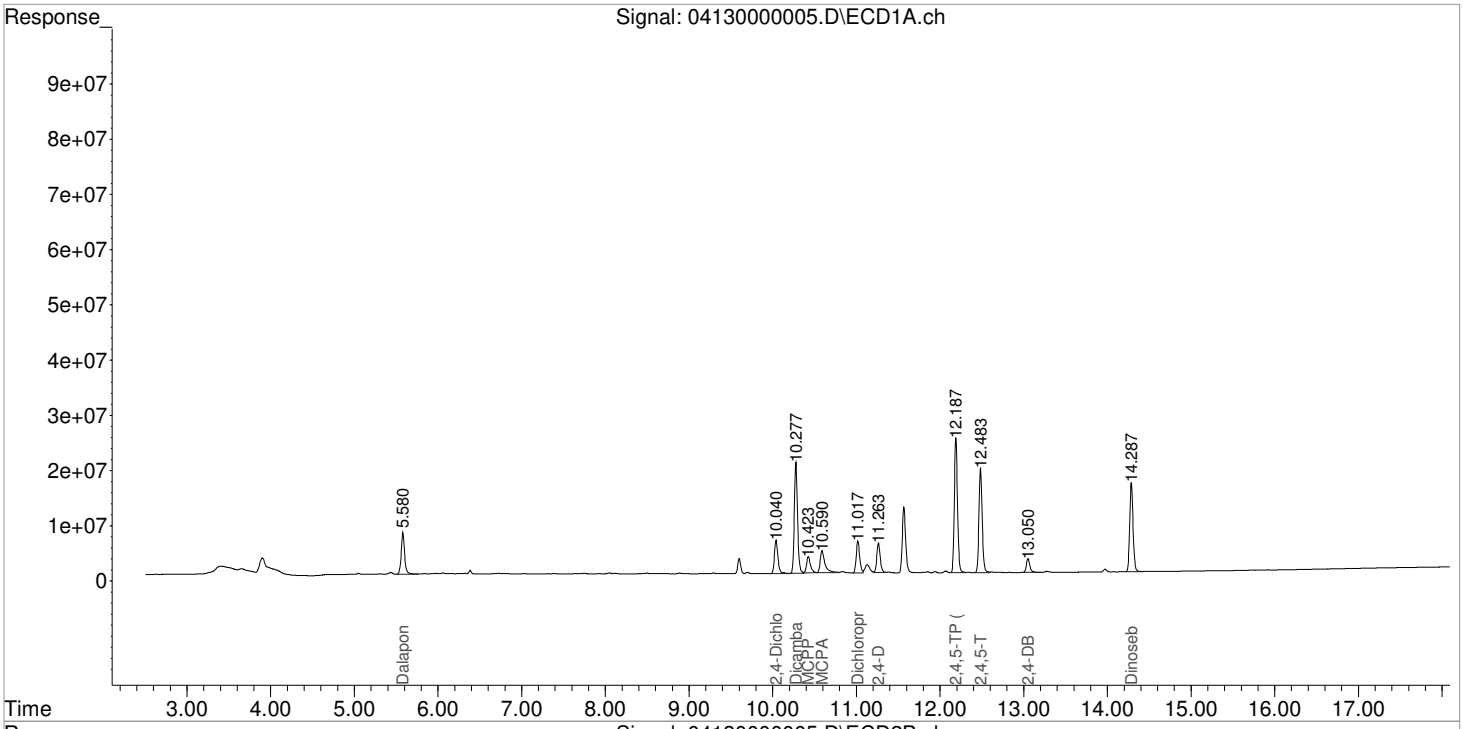
Quantitation Report (QT Reviewed)

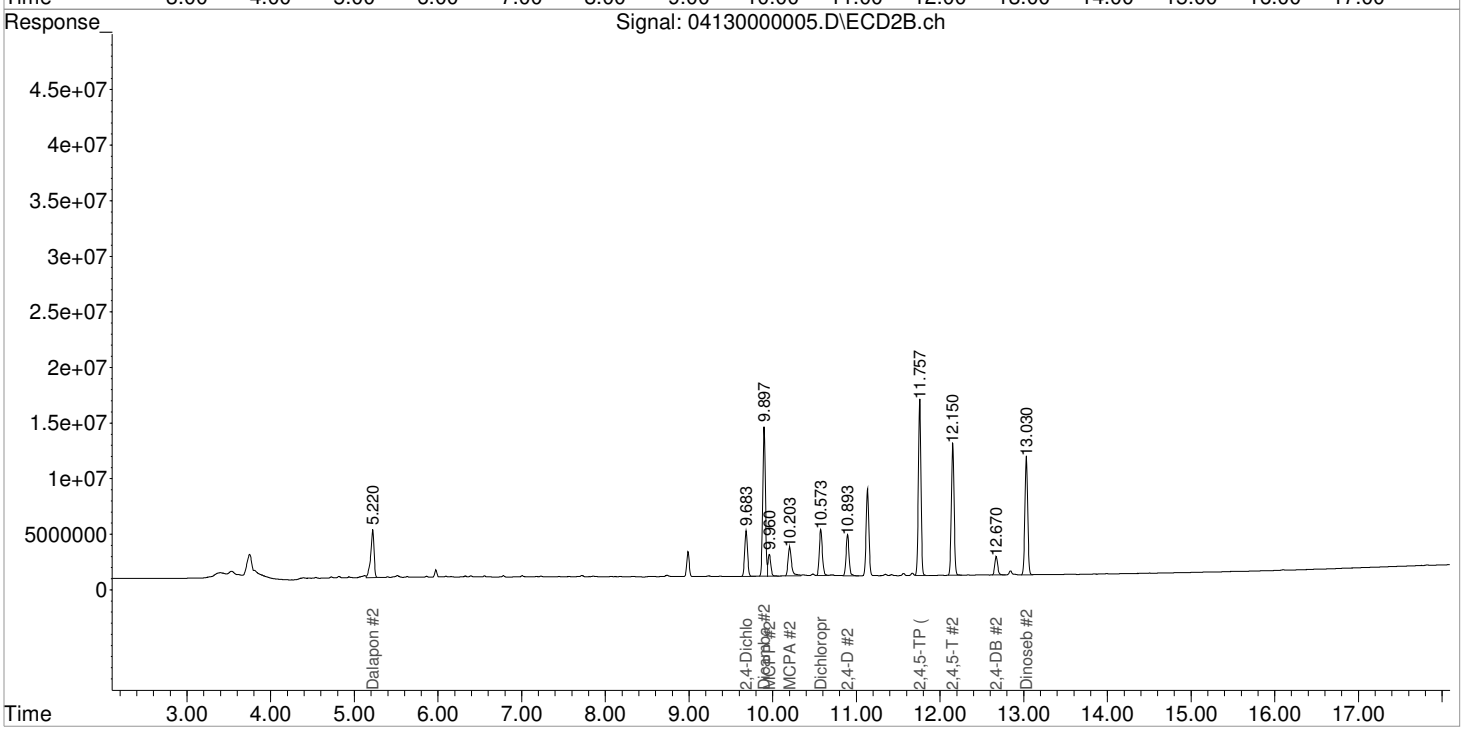
1st JTC 04/13/21
2nd 4w 04/14/21

Data File : J:\GC34\DATA\041321-HB\04130000005.D Vial: 3
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13-Apr-2021, 11:39:12 Operator: JTC
Sample : PENTA02-27G 25 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 13 14:32:24 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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





Quantitation Report (QT Reviewed)

1st JTC 04/13/21
2nd 4w 04/14/21

Data File : J:\GC34\DATA\041321-HB\04130000006.D Vial: 4
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13-Apr-2021, 12:03:30 Operator: JTC
Sample : PENTA02-27H 75 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 13 14:32:27 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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...	10.040	9.683	54610934	28265267	53.264	69.556	#
		Target Compounds							
1)	m	Dalapon	5.580	5.220	65011880	34181818	64.009	67.973	
3)	m	Dicamba	10.277	9.897	183.9E6	95521554	60.838	71.272	
4)	m	MCPP	10.423	9.960	24129263	12028697	5837.939	4182.887	#
5)	m	MCPA	10.587	10.203	38764007	19376238	5645.558	4834.321	
6)	m	Dichloroprop	11.017	10.573	50674142	27800519	52.995	70.626	#
7)	m	2,4-D	11.263	10.893	50101735	26792709	42.667	34.130	
8)	m	2,4,5-TP ...	12.187	11.757	222.5E6	112.9E6	46.067	75.422	#
9)	m	2,4,5-T	12.483	12.153	179.8E6	88505599	39.519	71.245	#
10)	m	2,4-DB	13.050	12.670	23405632	11867475	34.182	68.839	#
11)	m	Dinoseb	14.283	13.030	144.5E6	75055850	43.626	74.810	#

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

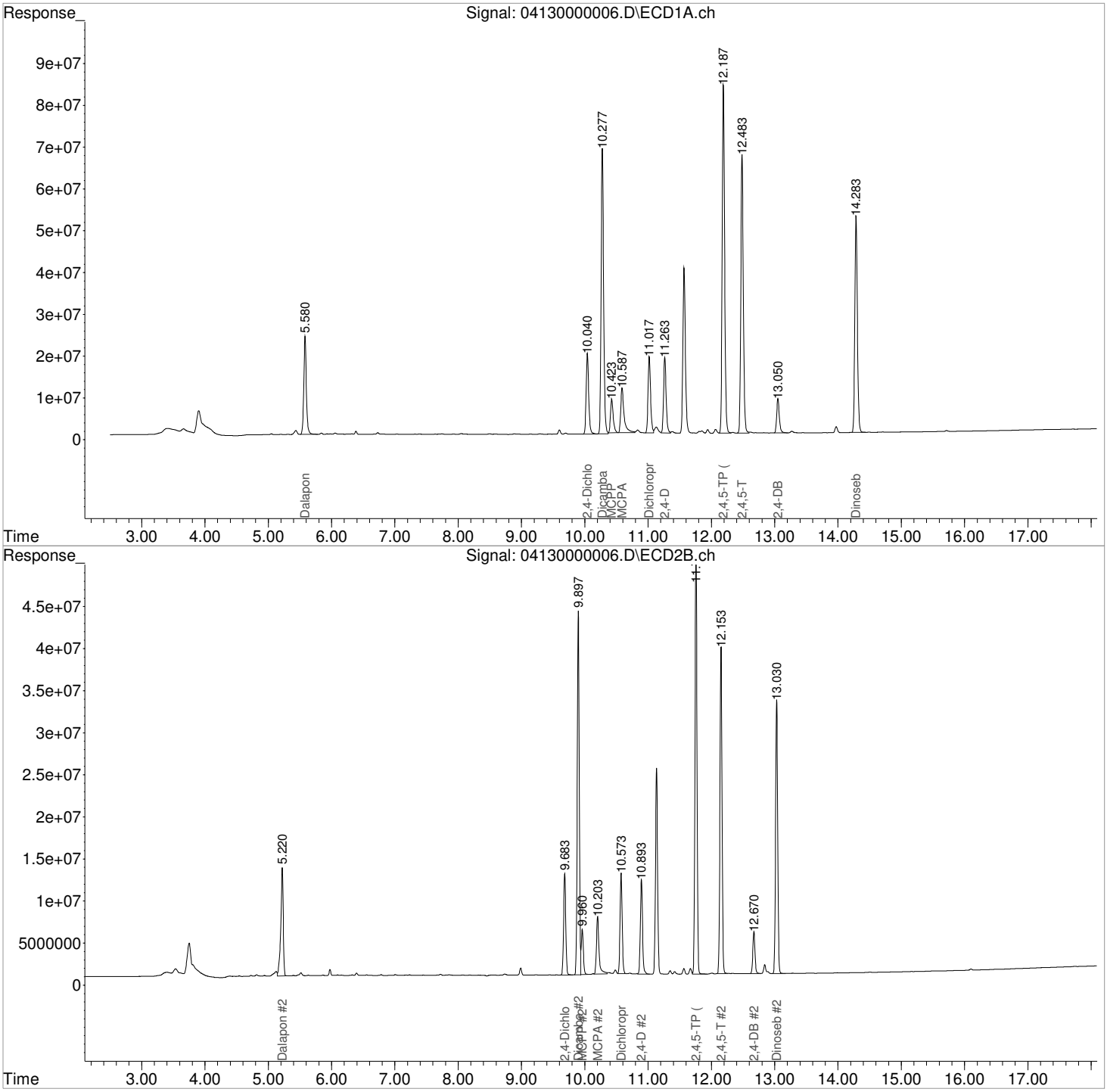
Quantitation Report (QT Reviewed)

1st JTC 04/13/21
2nd 4W 04/14/21

Data File : J:\GC34\DATA\041321-HB\04130000006.D Vial: 4
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13-Apr-2021, 12:03:30 Operator: JTC
Sample : PENTA02-27H 75 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 13 14:32:27 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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



Quantitation Report (QT Reviewed)

1st JTC 04/13/21
2nd 4w 04/14/21

Data File : J:\GC34\DATA\041321-HB\04130000007.D Vial: 5
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13-Apr-2021, 12:27:39 Operator: JTC
Sample : PENTA02-27I 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 13 14:32:11 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 14:31:15 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...	10.040	9.683	73526889	37553853	71.713	92.413	#
		Target Compounds							
1)	m	Dalapon	5.580	5.220	86530083	45175385	85.195	89.835	
3)	m	Dicamba	10.277	9.897	250.8E6	129.2E6	82.958	96.394	
4)	m	MCPP	10.427	9.960	33086562	15213394	8363.591	5503.323	#
5)	m	MCPA	10.590	10.203	52354614	25056443	7773.355	6251.518	
6)	m	Dichloroprop	11.020	10.573	68457458	36851171	71.593	93.619	#
7)	m	2,4-D	11.263	10.897	68647694	36255181	58.461	46.184	
8)	m	2,4,5-TP ...	12.190	11.757	304.8E6	153.9E6	63.112	102.798	#
9)	m	2,4,5-T	12.483	12.153	248.2E6	122.0E6	54.559	98.231	#
10)	m	2,4-DB	13.050	12.673	31917926	16045477	46.613	93.075	#
11)	m	Dinoseb	14.287	13.033	195.8E6	101.0E6	59.105	100.645	#

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

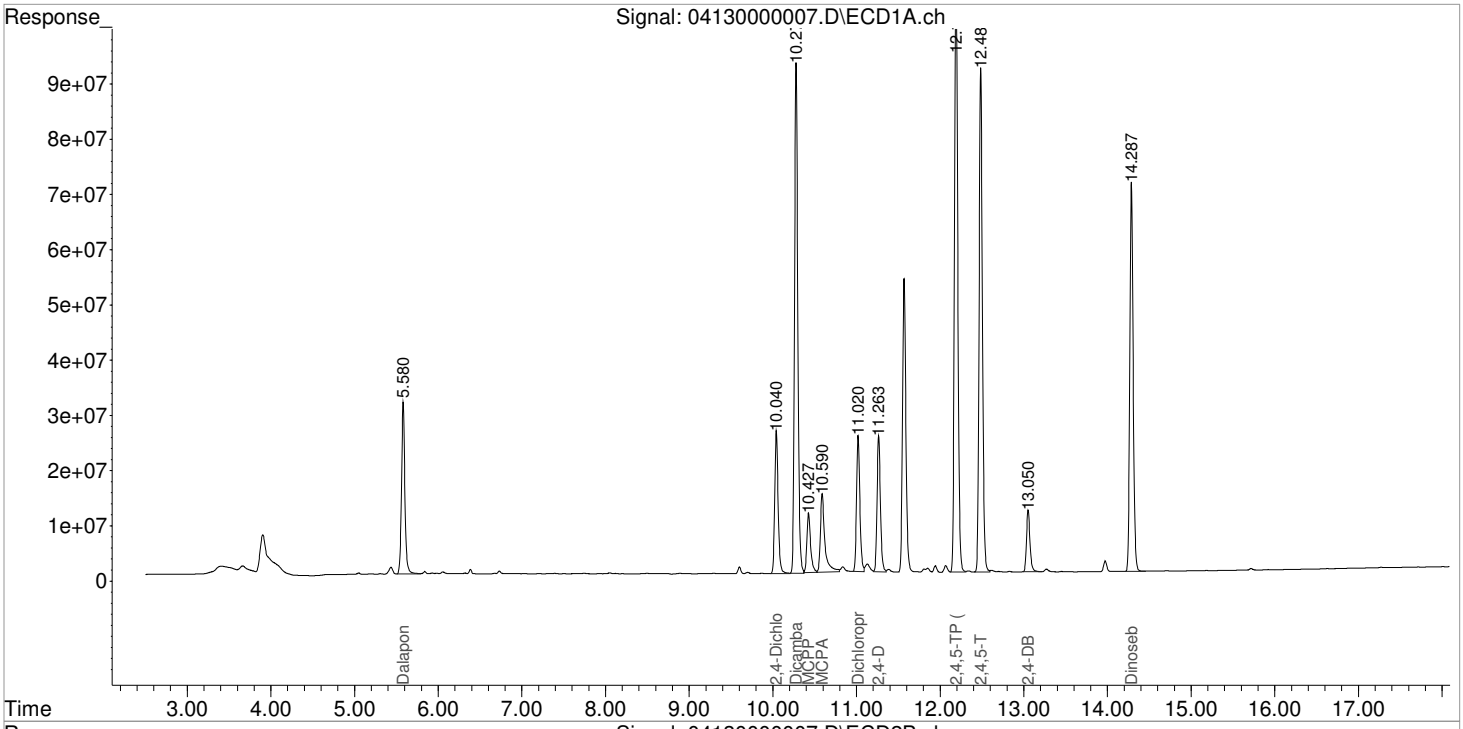
Quantitation Report (QT Reviewed)

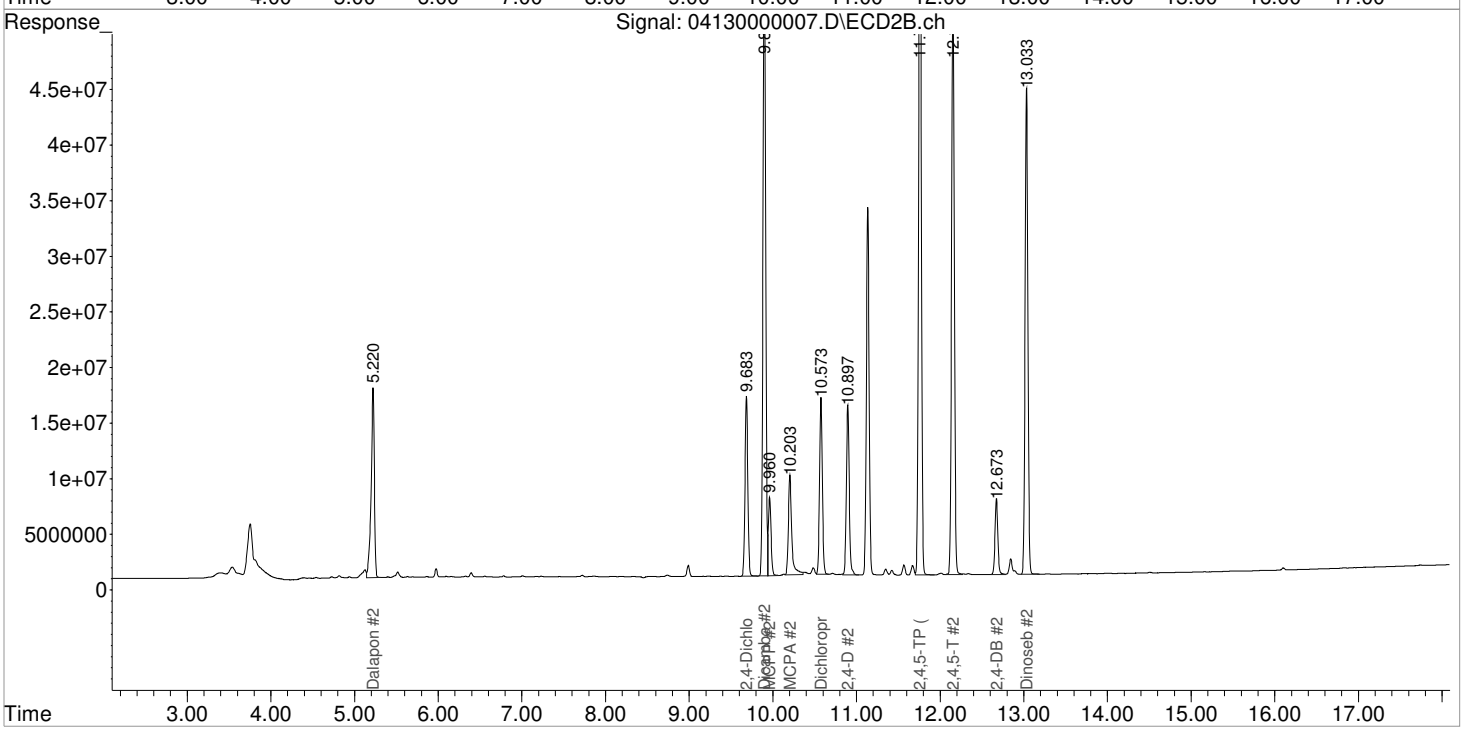
1st JTC 04/13/21
2nd 4w 04/14/21

Data File : J:\GC34\DATA\041321-HB\04130000007.D Vial: 5
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13-Apr-2021, 12:27:39 Operator: JTC
Sample : PENTA02-27I 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 13 14:32:11 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 14:31:15 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





Quantitation Report (QT Reviewed)

1st JTC 04/13/21
2nd 4w 04/14/21

Data File : J:\GC34\DATA\041321-HB\04130000008.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13-Apr-2021, 12:51:48 Operator: JTC
Sample : PENTA02-27J 125 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 13 16:37:00 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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...	10.040	9.683	91400679	46541824	89.146	114.531	#
		Target Compounds							
1)	m	Dalapon	5.580	5.220	108.2E6	56039494	106.495	111.439	
3)	m	Dicamba	10.277	9.897	311.1E6	161.8E6	102.925	120.735	
4)	m	MCPP	10.423	9.960	38663204	18948275	9936.014	7097.928	#
5)	m	MCPA	10.587	10.200	58997298	30544547	8813.359	7620.786	
6)	m	Dichloroprop	11.017	10.573	84690796	45683349	88.570	116.057	#
7)	m	2,4-D	11.263	10.893	84292057	45688887	71.784	58.202	
8)	m	2,4,5-TP ...	12.187	11.757	383.5E6	194.6E6	79.396	130.007	#
9)	m	2,4,5-T	12.483	12.150	312.5E6	154.8E6	68.689	124.623	#
10)	m	2,4-DB	13.050	12.670	39974486	20112786	58.379	116.668	#
11)	m	Dinoseb	14.283	13.030	245.1E6	126.3E6	73.998	125.848	#

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

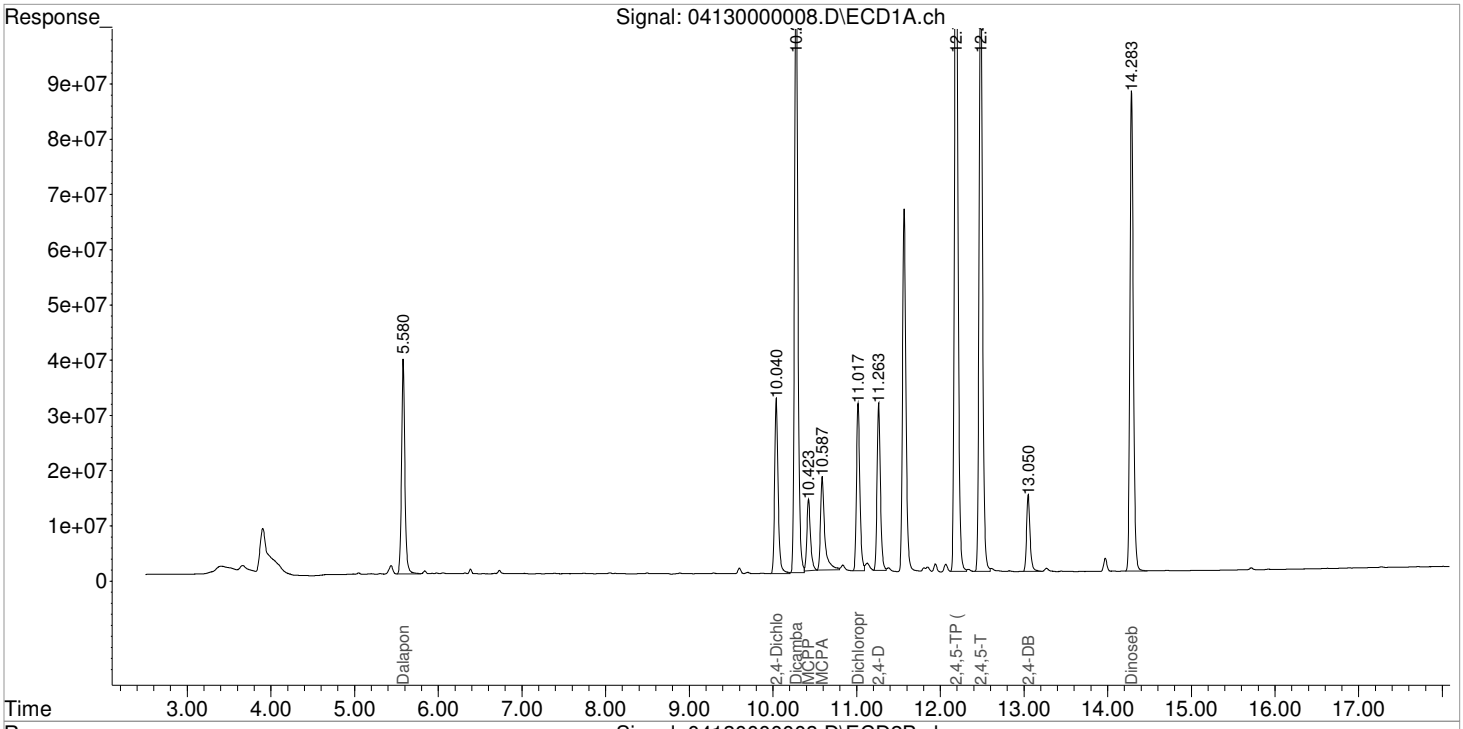
Quantitation Report (QT Reviewed)

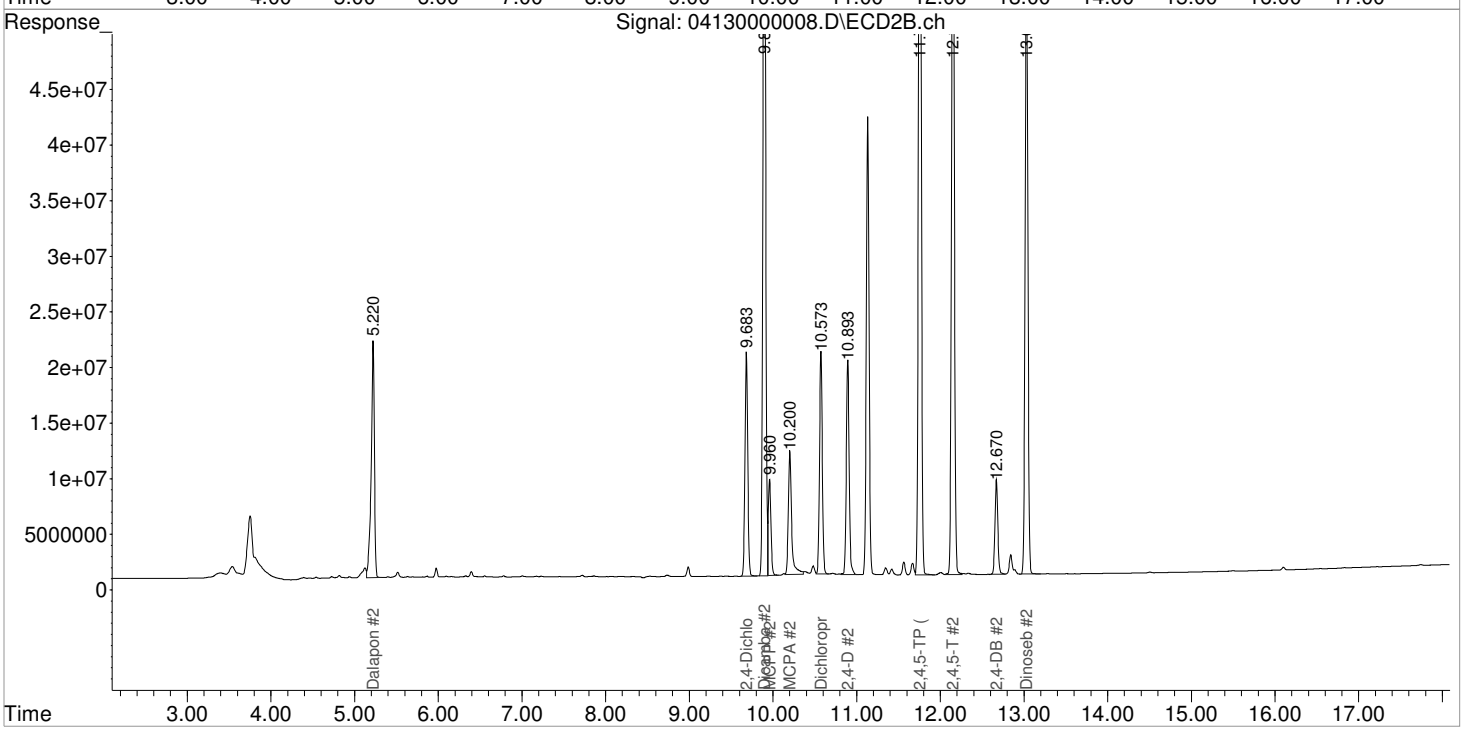
1st JTC 04/13/21
2nd 4W 04/14/21

Data File : J:\GC34\DATA\041321-HB\04130000008.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13-Apr-2021, 12:51:48 Operator: JTC
Sample : PENTA02-27J 125 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 13 16:37:00 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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





Quantitation Report (QT Reviewed)

1st JTC 04/13/21
2nd 4w 04/14/21

Data File : J:\GC34\DATA\041321-HB\04130000009.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13-Apr-2021, 13:15:51 Operator: JTC
Sample : PENTA02-27K 150 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 13 16:37:03 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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...	10.037	9.680	109.2E6	55669644	106.535	136.993	#
		Target Compounds							
1)	m	Dalapon	5.577	5.217	130.4E6	66754247	128.349	132.746	
3)	m	Dicamba	10.273	9.893	377.5E6	194.5E6	124.891	145.118	
4)	m	MCPP	10.420	9.957	44885015	22780873	11690.352	8791.044	
5)	m	MCPA	10.583	10.200	69665234	35780406	10483.572	8927.119	
6)	m	Dichloroprop	11.013	10.570	104.7E6	54467367	109.487	138.373	#
7)	m	2,4-D	11.260	10.890	105.6E6	55070916	89.967	70.153	
8)	m	2,4,5-TP ...	12.187	11.753	463.2E6	235.1E6	95.904	157.044	#
9)	m	2,4,5-T	12.480	12.147	379.5E6	187.5E6	83.426	150.969	#
10)	m	2,4-DB	13.047	12.667	48513673	24137021	70.850	140.011	#
11)	m	Dinoseb	14.283	13.027	293.7E6	151.1E6	88.663	150.646	#

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

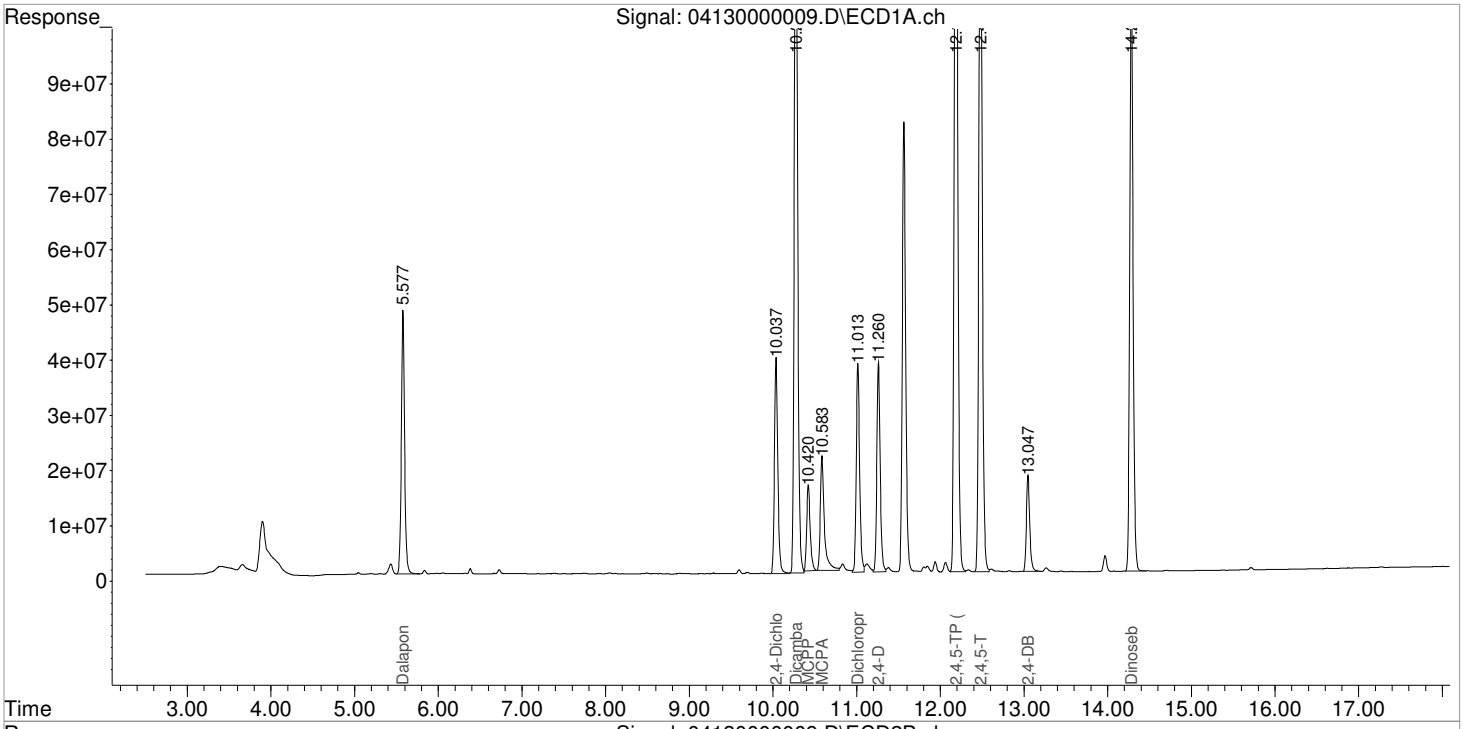
Quantitation Report (QT Reviewed)

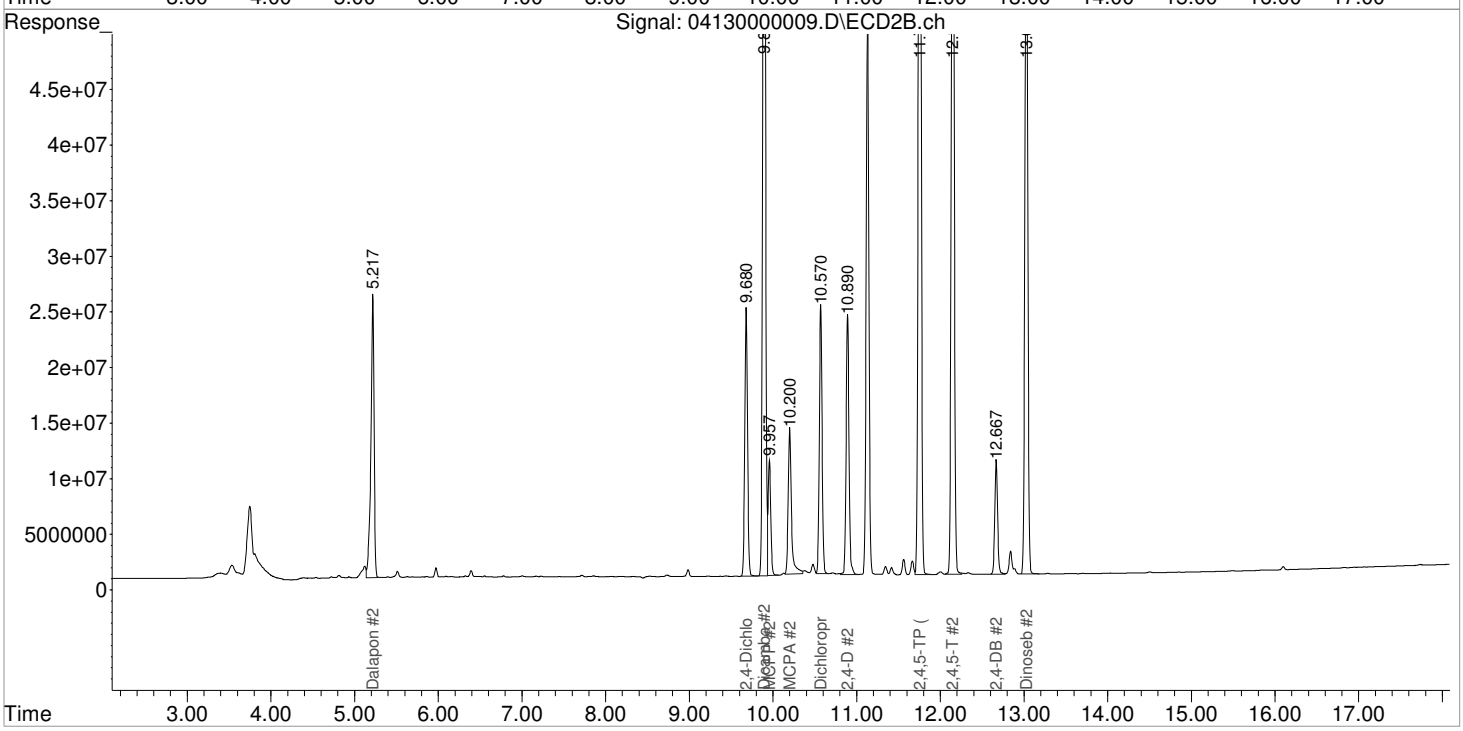
1st JTC 04/13/21
2nd 4w 04/14/21

Data File : J:\GC34\DATA\041321-HB\04130000009.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13-Apr-2021, 13:15:51 Operator: JTC
Sample : PENTA02-27K 150 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 13 16:37:03 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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





Quantitation Report (QT Reviewed)

1st JTC 04/13/21
2nd 4w 04/14/21

Data File : J:\GC34\DATA\041321-HB\04130000010.D Vial: 8
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13-Apr-2021, 13:39:52 Operator: JTC
Sample : PENTA02-27L 175 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 13 16:37:06 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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...	10.037	9.680	128.1E6	64969628	124.892	159.878	#
		Target Compounds							
1)	m	Dalapon	5.577	5.217	152.7E6	78167460	150.364	155.442	
3)	m	Dicamba	10.273	9.893	444.8E6	228.9E6	147.164	170.799	
4)	m	MCPP	10.420	9.957	51712957	26310636	13615.598	10406.815	
5)	m	MCPA	10.583	10.200	79153670	41148514	11969.118	10266.448	
6)	m	Dichloroprop	11.013	10.570	120.4E6	63332821	125.932	160.895	#
7)	m	2,4-D	11.260	10.890	123.3E6	64729860	105.037	82.457	
8)	m	2,4,5-TP ...	12.183	11.753	543.3E6	275.6E6	112.484	184.097	#
9)	m	2,4,5-T	12.480	12.147	446.1E6	220.4E6	98.062	177.407	#
10)	m	2,4-DB	13.047	12.667	57138701	28186900	83.446	163.503	#
11)	m	Dinoseb	14.280	13.027	343.1E6	175.9E6	103.589	175.310	#

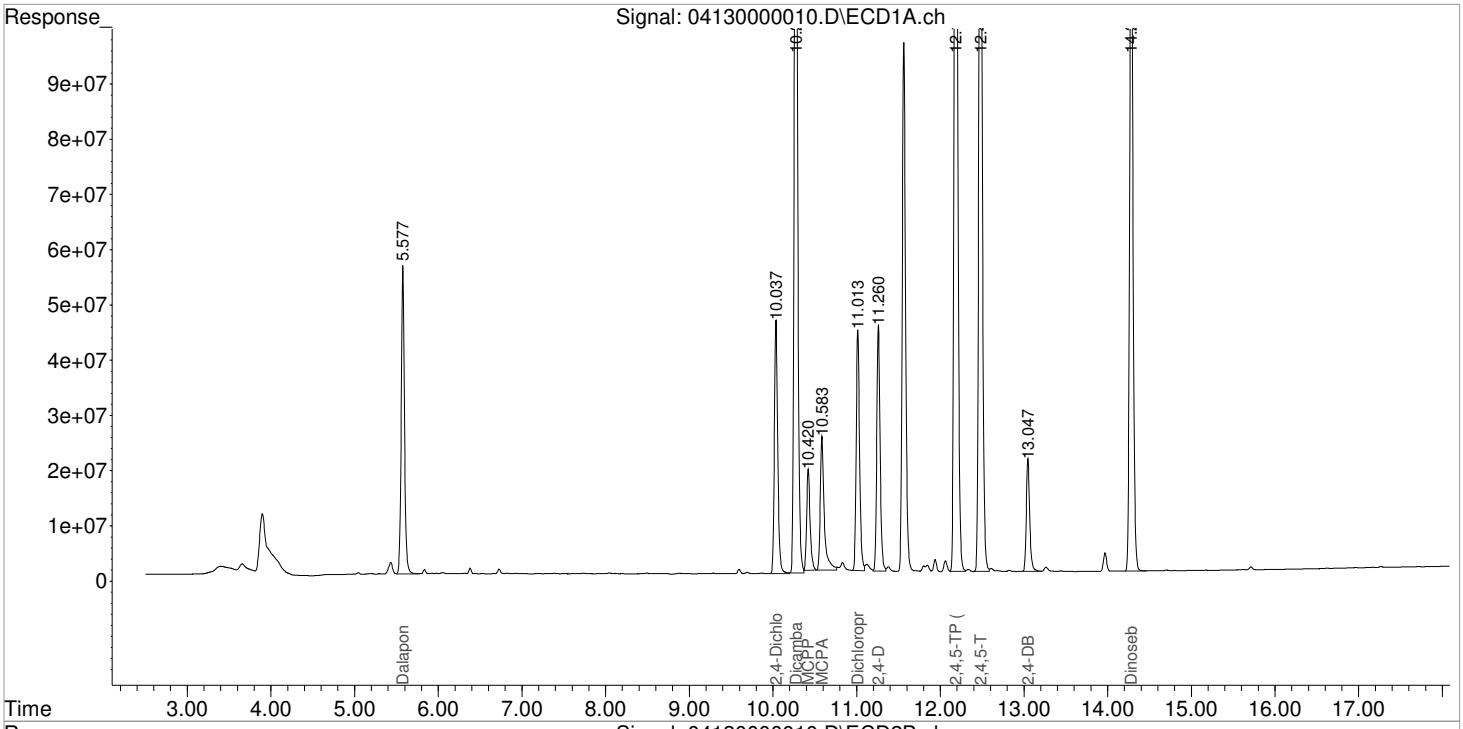
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

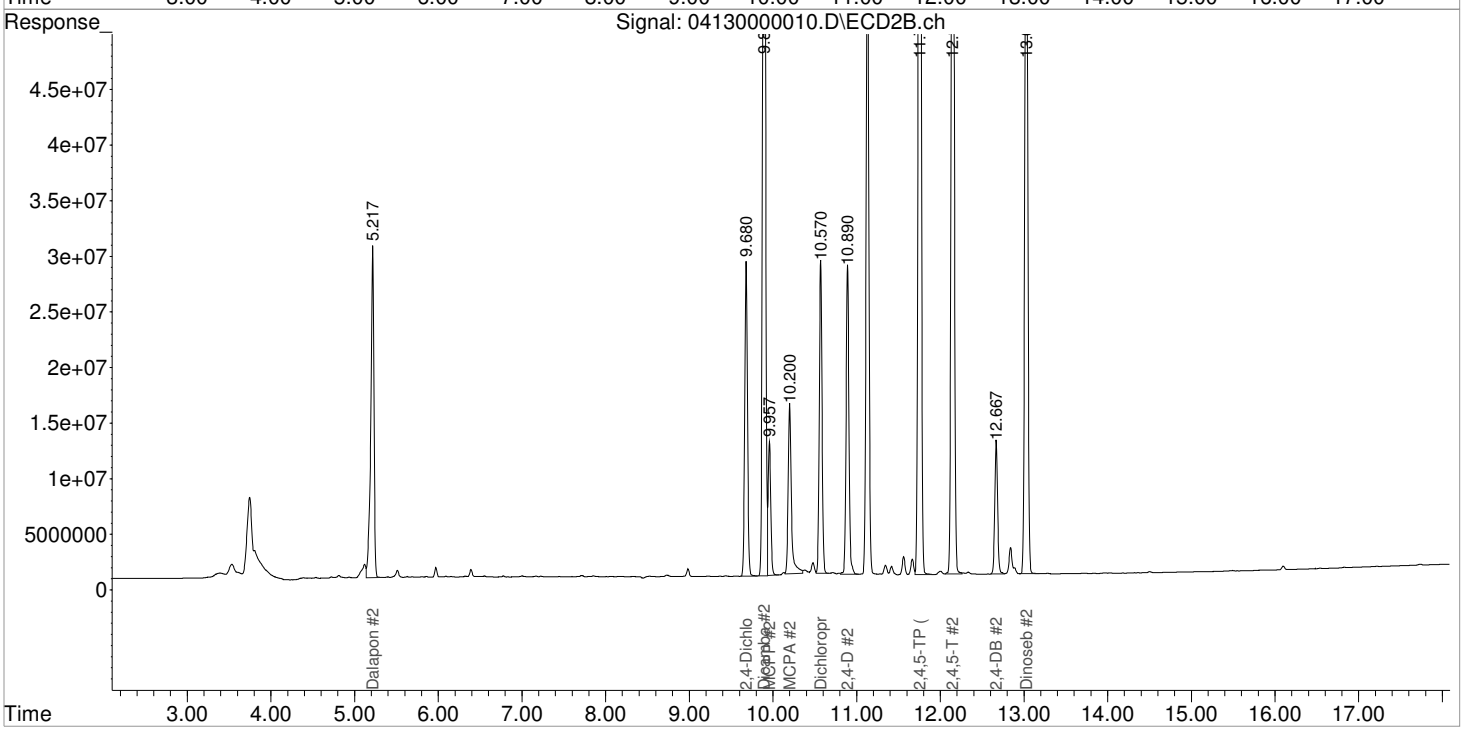
1st JTC 04/13/21
2nd 4w 04/14/21

Data File : J:\GC34\DATA\041321-HB\04130000010.D Vial: 8
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13-Apr-2021, 13:39:52 Operator: JTC
Sample : PENTA02-27L 175 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 13 16:37:06 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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





Quantitation Report (QT Reviewed)

1st JTC 04/13/21
2nd 4w 04/14/21

Data File : J:\GC34\DATA\041321-HB\04130000011.D Vial: 9
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13-Apr-2021, 14:03:55 Operator: JTC
Sample : PENTA02-27M 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 13 16:37:09 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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...	10.033	9.677	145.6E6	73751074	141.975	181.488	#
		Target Compounds							
1)	m	Dalapon	5.577	5.213	174.4E6	88940257	171.708	176.865	
3)	m	Dicamba	10.273	9.893	507.5E6	260.8E6	167.893	194.588	
4)	m	MCPP	10.420	9.957	58669189	29315451	15577.018	11829.575	
5)	m	MCPA	10.583	10.197	89596390	46178175	13604.070	11521.336	
6)	m	Dichloroprop	11.013	10.570	136.4E6	71773308	142.647	182.338	#
7)	m	2,4-D	11.257	10.890	142.5E6	73898540	121.329	94.137	
8)	m	2,4,5-TP ...	12.183	11.753	620.0E6	314.0E6	128.372	209.783	#
9)	m	2,4,5-T	12.480	12.147	510.5E6	251.9E6	112.214	202.802	#
10)	m	2,4-DB	13.047	12.667	65511997	32166963	95.675	186.590	#
11)	m	Dinoseb	14.280	13.027	390.4E6	199.6E6	117.852	198.986	#

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

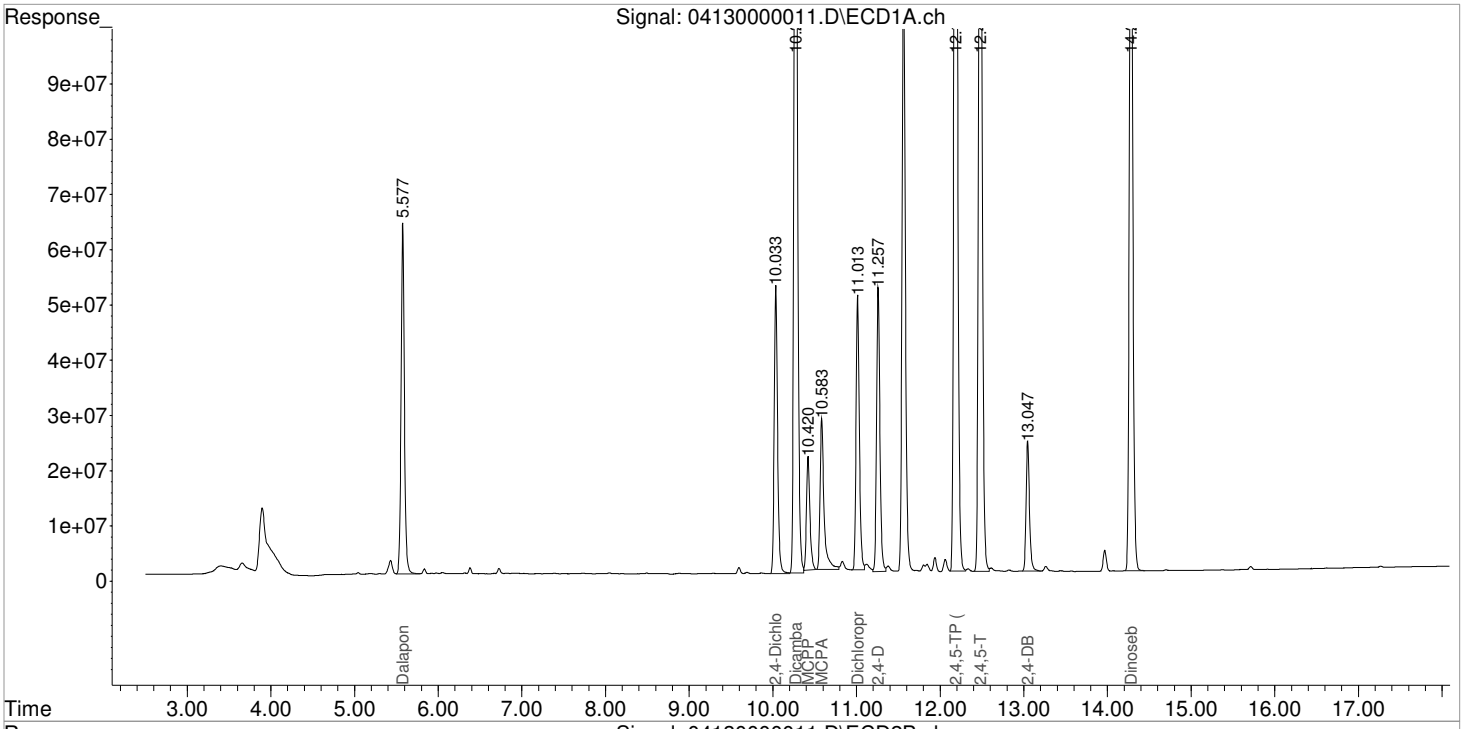
Quantitation Report (QT Reviewed)

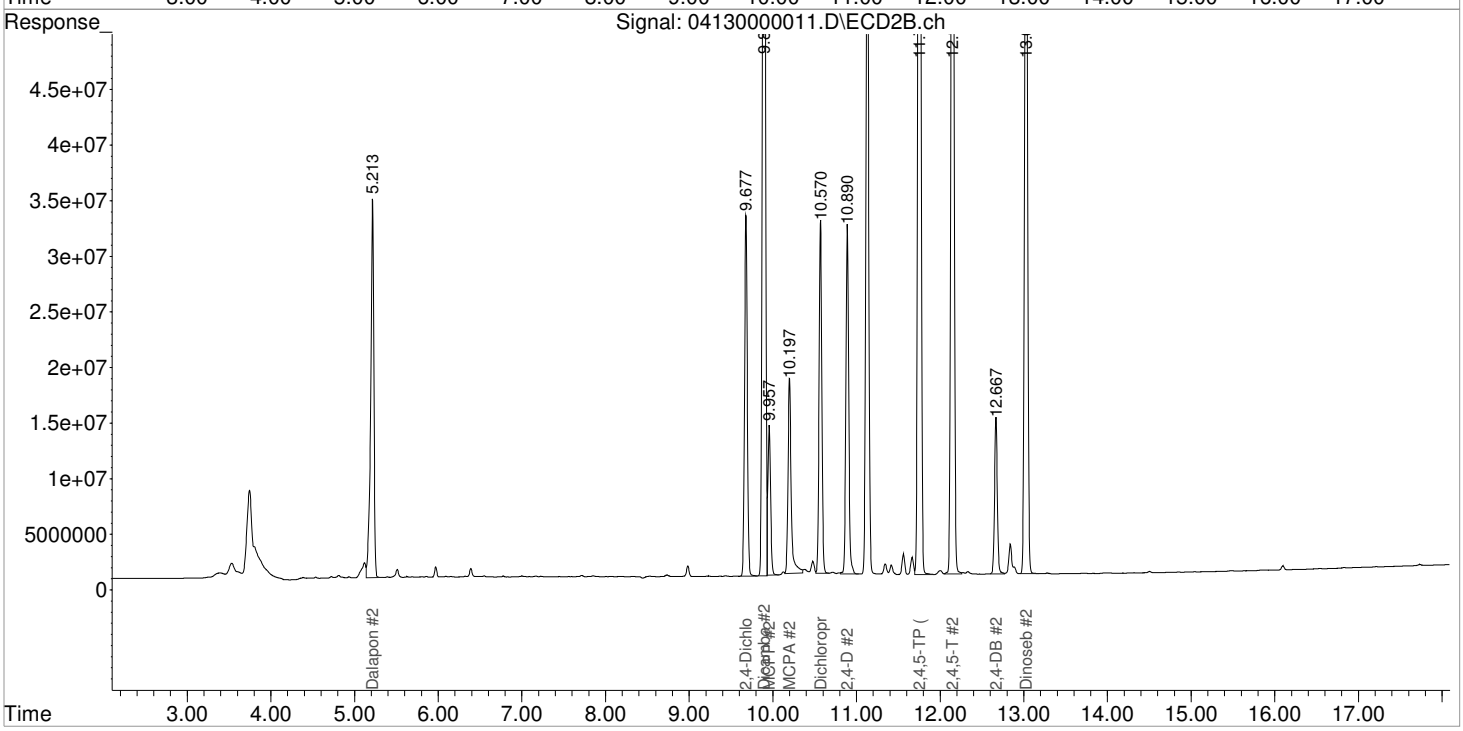
1st JTC 04/13/21
2nd 4w 04/14/21

Data File : J:\GC34\DATA\041321-HB\04130000011.D Vial: 9
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13-Apr-2021, 14:03:55 Operator: JTC
Sample : PENTA02-27M 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 13 16:37:09 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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





Quantitation Report (QT Reviewed)

1st JTC 04/13/21
2nd 4w 04/14/21

Data File : J:\GC34\DATA\041321-HB\04130000012.D Vial: 10
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13-Apr-2021, 14:27:52 Operator: JTC
Sample : PENTA02-27N 100 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 13 17:02:38 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:43:30 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	5.577	5.213	92470689	47383133	96.420	93.382
3)	m	Dicamba	10.270	9.893	259.7E6	134.3E6	101.143	98.983
4)	m	MCPP	10.420	9.957	32811663	15304570	9976.027	9370.703
5)	m	MCPA	10.583	10.197	50986095	26073671	9548.987	10001.342
6)	m	Dichloroprop	11.013	10.570	61904392	33484910	85.694	85.393
7)	m	2,4-D	11.257	10.890	60796221	34309702	84.851	87.901
8)	m	2,4,5-TP ...	12.183	11.753	288.6E6	146.3E6	94.086	92.360
9)	m	2,4,5-T	12.477	12.147	247.1E6	121.2E6	98.767	95.949
10)	m	2,4-DB	13.047	12.667	32826817	15802686	97.653	92.024
11)	m	Dinoseb	14.280	13.027	193.2E6	99941110	95.339	93.238

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

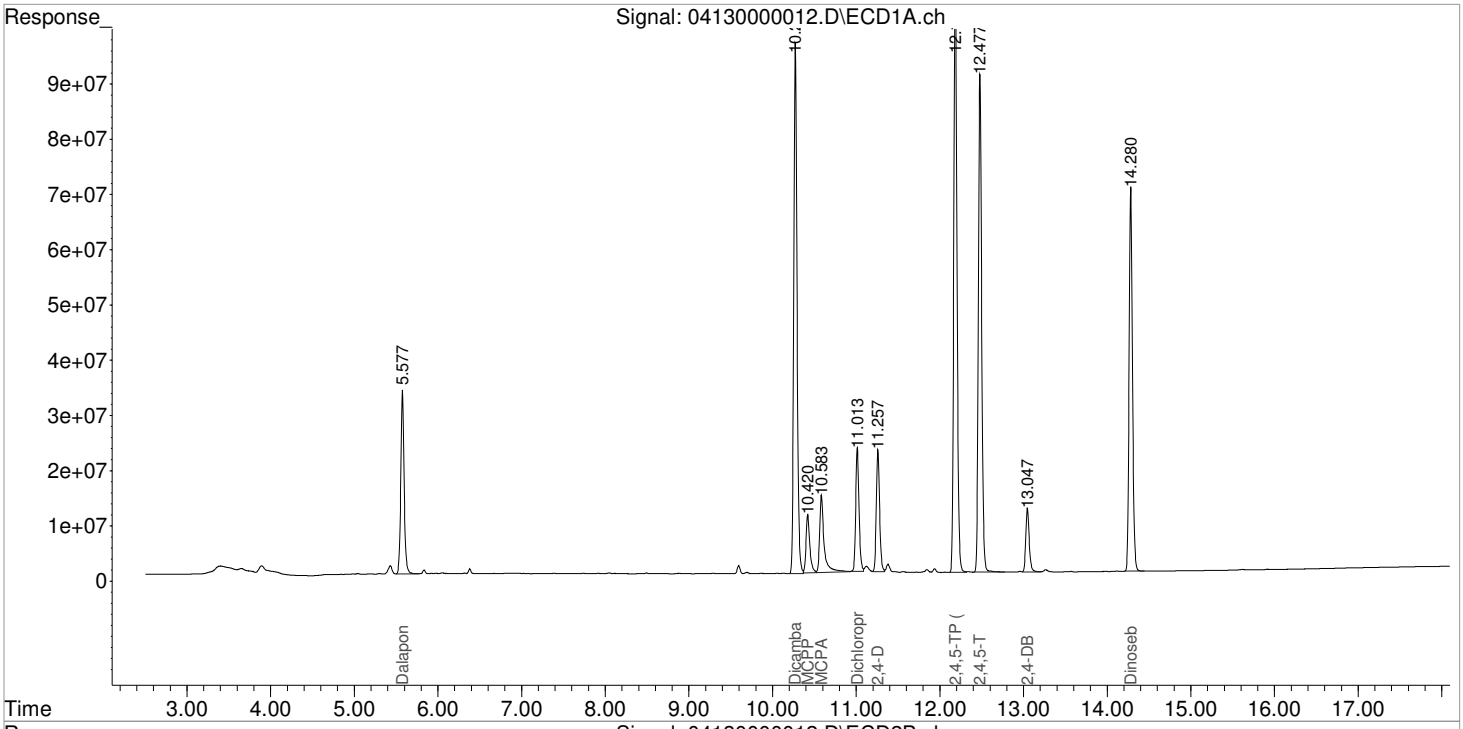
Quantitation Report (QT Reviewed)

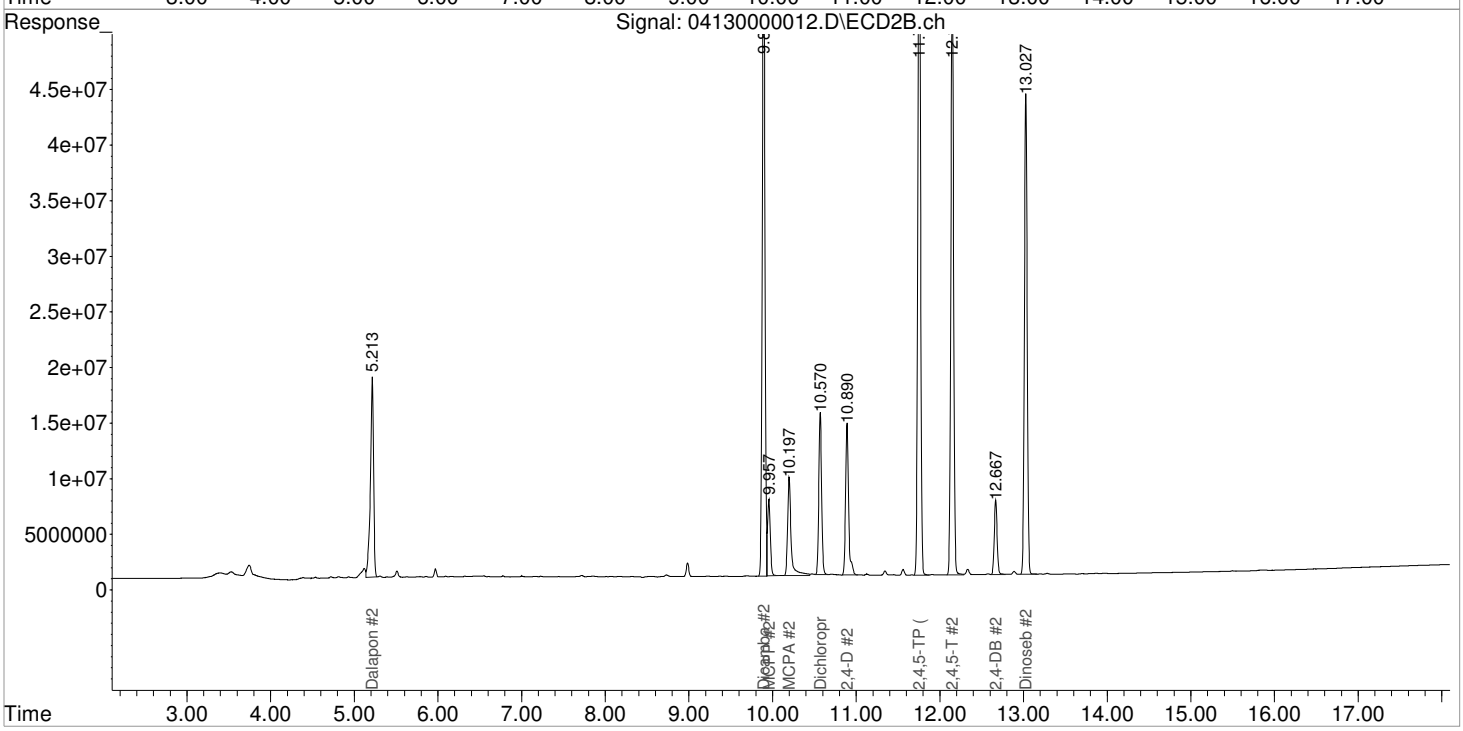
1st JTC 04/13/21
2nd 4w 04/14/21

Data File : J:\GC34\DATA\041321-HB\04130000012.D Vial: 10
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13-Apr-2021, 14:27:52 Operator: JTC
Sample : PENTA02-27N 100 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 13 17:02:38 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:43:30 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





Quantitation Report (QT Reviewed)

1st JTC 04/13/21
2nd 4w 04/14/21

Data File : J:\GC34\DATA\041321-HB\04130000014.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13-Apr-2021, 15:15:48 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 13 17:06:56 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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	9.703	0	88214	N.D.	0.208	#
		Target Compounds							
1)	m	Dalapon	5.637f	5.160f	226256	78994	0.236	0.156	#
3)	m	Dicamba	0.000	0.000	0	0	N.D.	N.D.	
4)	m	MCPP	10.407	0.000	83590	0	N.D.	N.D.	
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D.	
6)	m	Dichloroprop	0.000	10.590	0	719461	N.D.	N.D.	
7)	m	2,4-D	0.000	0.000	0	0	N.D.	N.D.	
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.

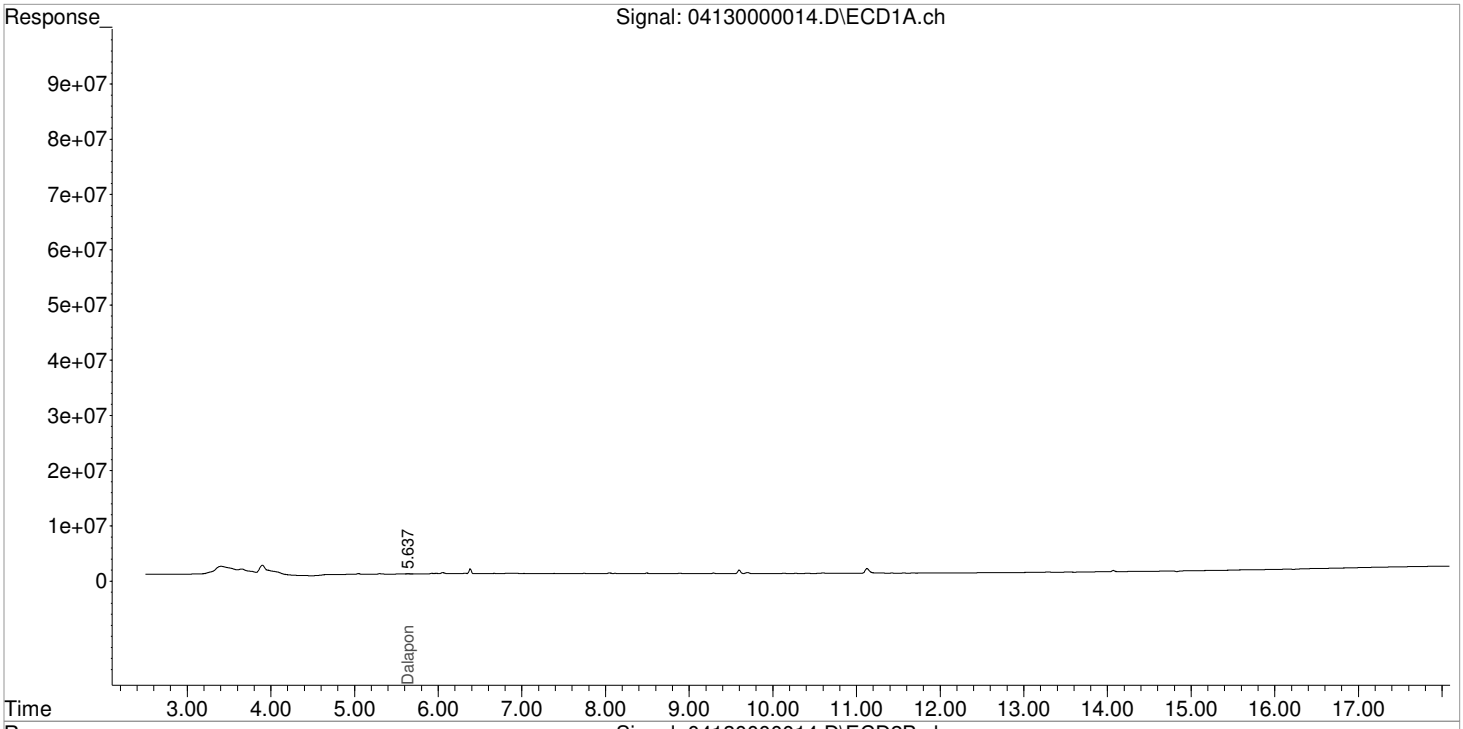
Quantitation Report (QT Reviewed)

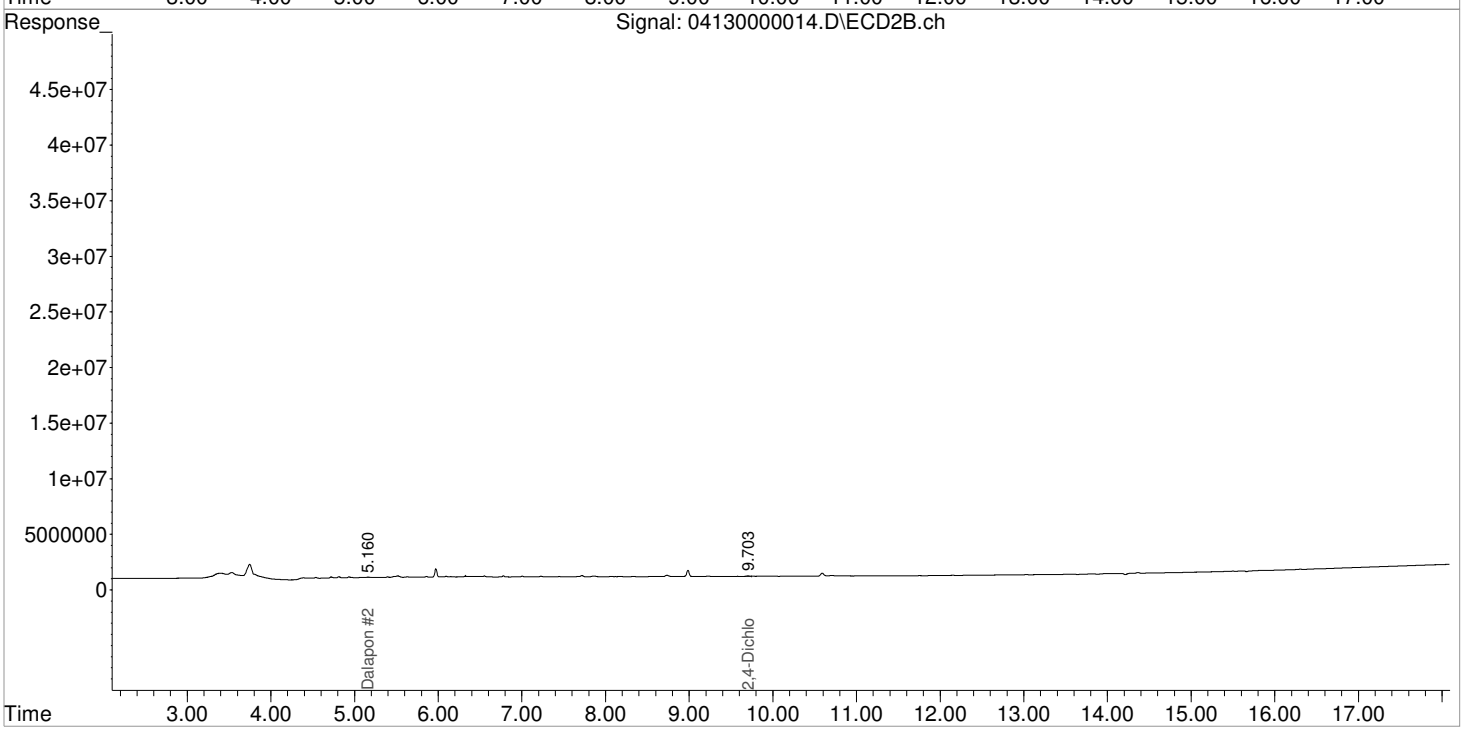
1st JTC 04/13/21
2nd 4W 04/14/21

Data File : J:\GC34\DATA\041321-HB\04130000014.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13-Apr-2021, 15:15:48 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 13 17:06:56 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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



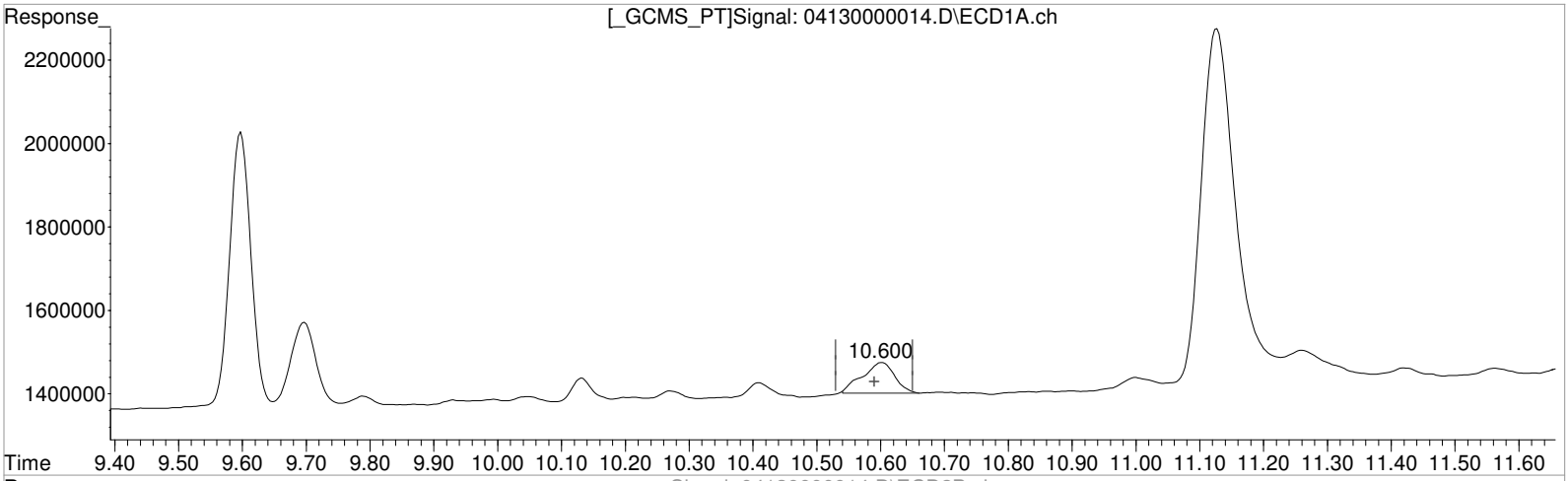


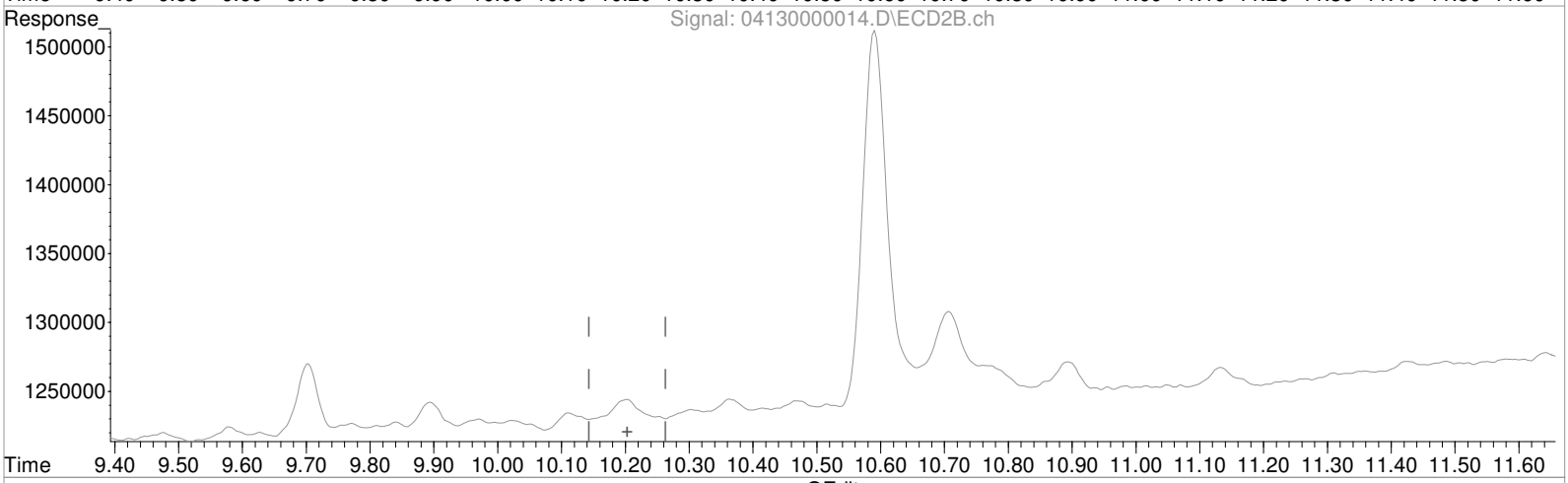
1st JTC 04/13/21
2nd 4w 04/14/21

Data File : J:\GC34\DATA\041321-HB\04130000014.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13-Apr-2021, 15:15:48 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 13 17:04:37 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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)

10.600min 115777.849 ppb

response 259217

(5) MCPA #2 (m)

0.000min 0.000 ppb

response 0

Manual Integration:

Before

04/13/21

(+) = Expected Retention Time

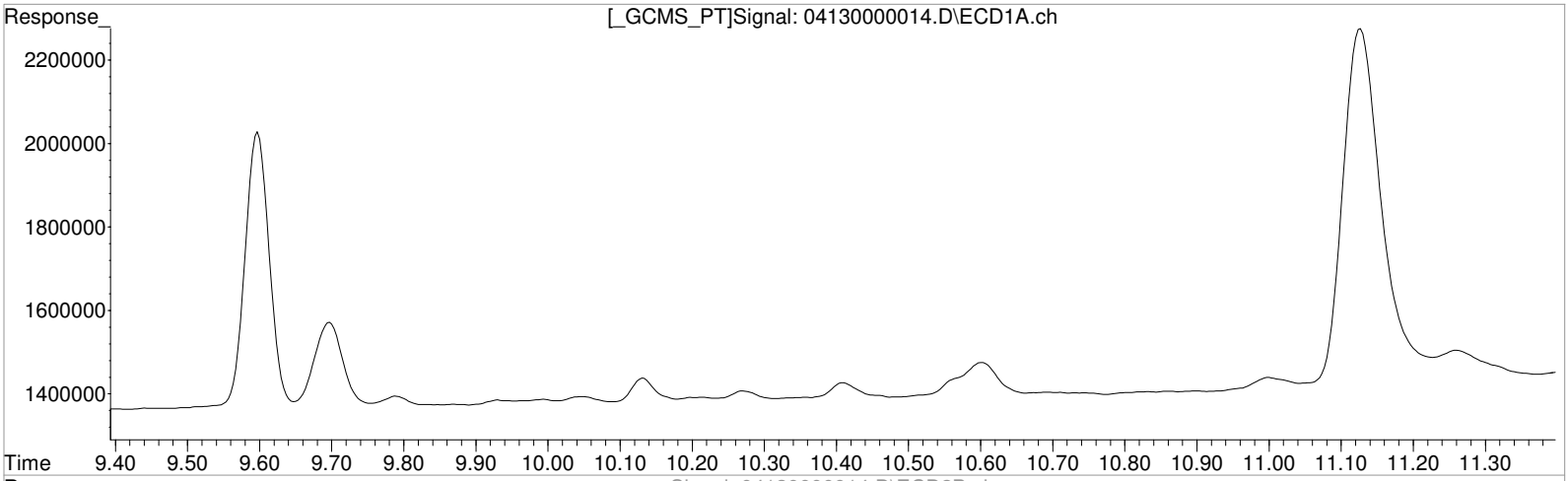
Quantitation Report (Qedit)

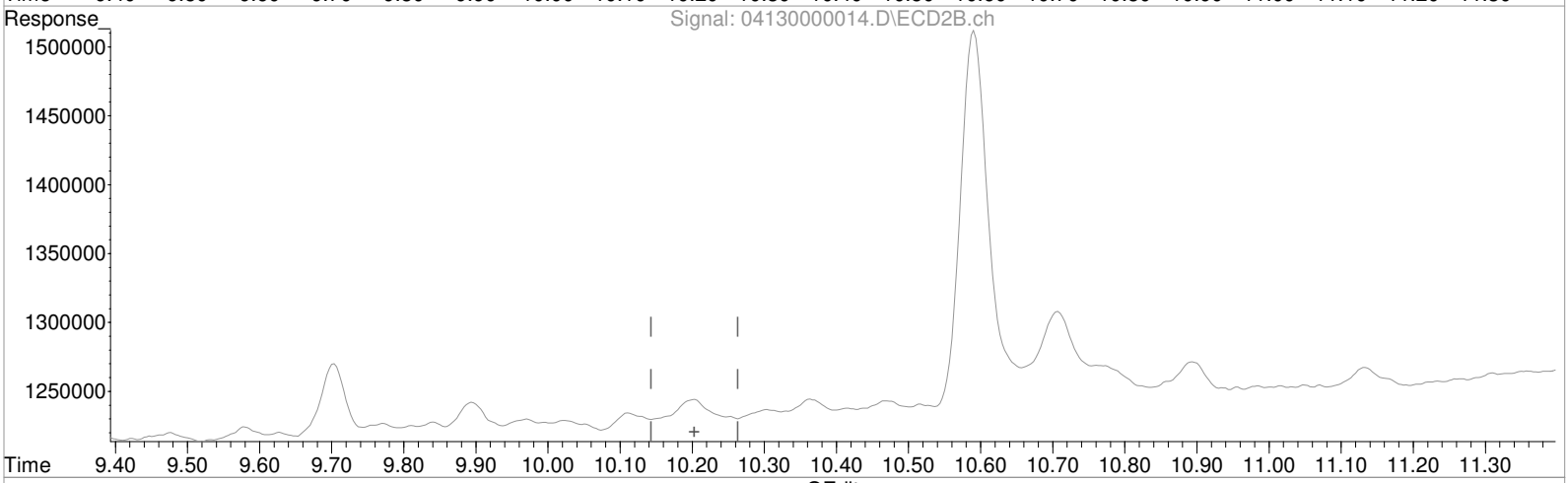
1st JTC 04/13/21
2nd 04/14/21

Data File : J:\GC34\DATA\041321-HB\04130000014.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13-Apr-2021, 15:15:48 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 13 17:04:37 2021
Quant Results File: 041321_8151.RES

Quant Method : J:\GC34\METHODS\041321_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 13 16:53:24 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)

0.000min 0.000 ppb d

response 0

(5) MCPA #2 (m)

0.000min 0.000 ppb

response 0

Manual Integration:

After

Quad Error

04/13/21

(+) = Expected Retention Time

Calibration ID: KC2100194

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	PENTA02-26J 100PPB C CV	8151A-17	1	Sample	
4	Vial 2	IB	8151A-17	1	Sample	
5	Vial 86	PENTA02-26L 10 PPB	8151A-17	1	Sample	
6	Vial 87	PENTA02-26M 25 PPB	8151A-17	1	Sample	
7	Vial 88	PENTA02-26N 75 PPB	8151A-17	1	Sample	
8	Vial 89	PENTA02-27A 100 PPB	8151A-17	1	Sample	
9	Vial 90	PENTA02-27B 125 PPB	8151A-17	1	Sample	
10	Vial 91	PENTA02-27C 150 PPB	8151A-17	1	Sample	
11	Vial 92	PENTA02-27D 175 PPB	8151A-17	1	Sample	
12	Vial 93	PENTA02-27E 200 PPB	8151A-17	1	Sample	
13	Vial 94	PENTA02-26K 100PPB I CV	8151A-17	1	Sample	
14	Vial 1	PENTA02-26J 100PPB C CV	8151A-17	1	Sample	
15	Vial 2	IB	8151A-17	1	Sample	
16	Vial 16	K2102809-08 MS	8151A-17	1	Sample	
17	Vial 17	K2102809-08 DMS	8151A-17	1	Sample	
18	Vial 1	PENTA02-26J 100PPB C CV	8151A-17	1	Sample	
19	Vial 2	IB	8151A-17	1	Sample	
20	Vial 3	KQ2105109-01 LEACHAT E BLANK	8151A-17	1	Sample	
21	Vial 4	KQ2105119-03 MB	8151A-17	1	Sample	
22	Vial 5	KQ2105119-02 LCS	8151A-17	1	Sample	

Quantitation Report (QT Reviewed)

1st JTC 04/06/21
2nd 4w 04/06/21

Data File : J:\GC34\DATA\040521\04050000004.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05-Apr-2021, 12:00:50 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 06 08:39:12 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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...	11.053f	0.000	484703	0	0.473	N.D.	#
		Target Compounds							
1)	m	Dalapon	0.000	4.887f	0	71741	N.D.	0.143	#
3)	m	Dicamba	0.000	9.640	0	65033	N.D.	0.049	#
4)	m	MCPP	11.330	0.000	320977	0	N.D.	N.D.	
5)	m	MCPA	0.000	10.267f	0	2565807	N.D.	640.162	#
6)	m	Dichloroprop	0.000	10.767	0	38703	N.D.	0.098	#
7)	m	2,4-D	0.000	10.933	0	173649	N.D.	0.221	#
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.

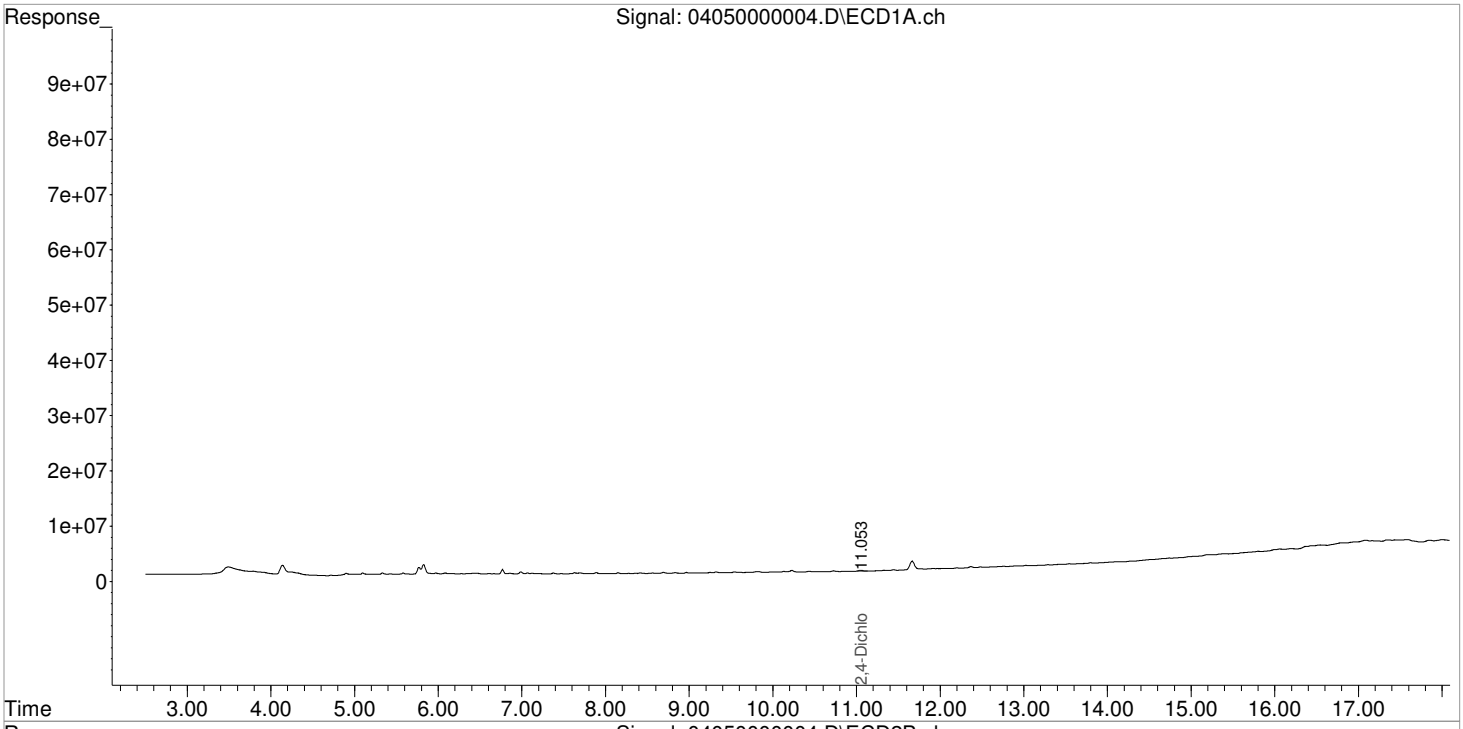
Quantitation Report (QT Reviewed)

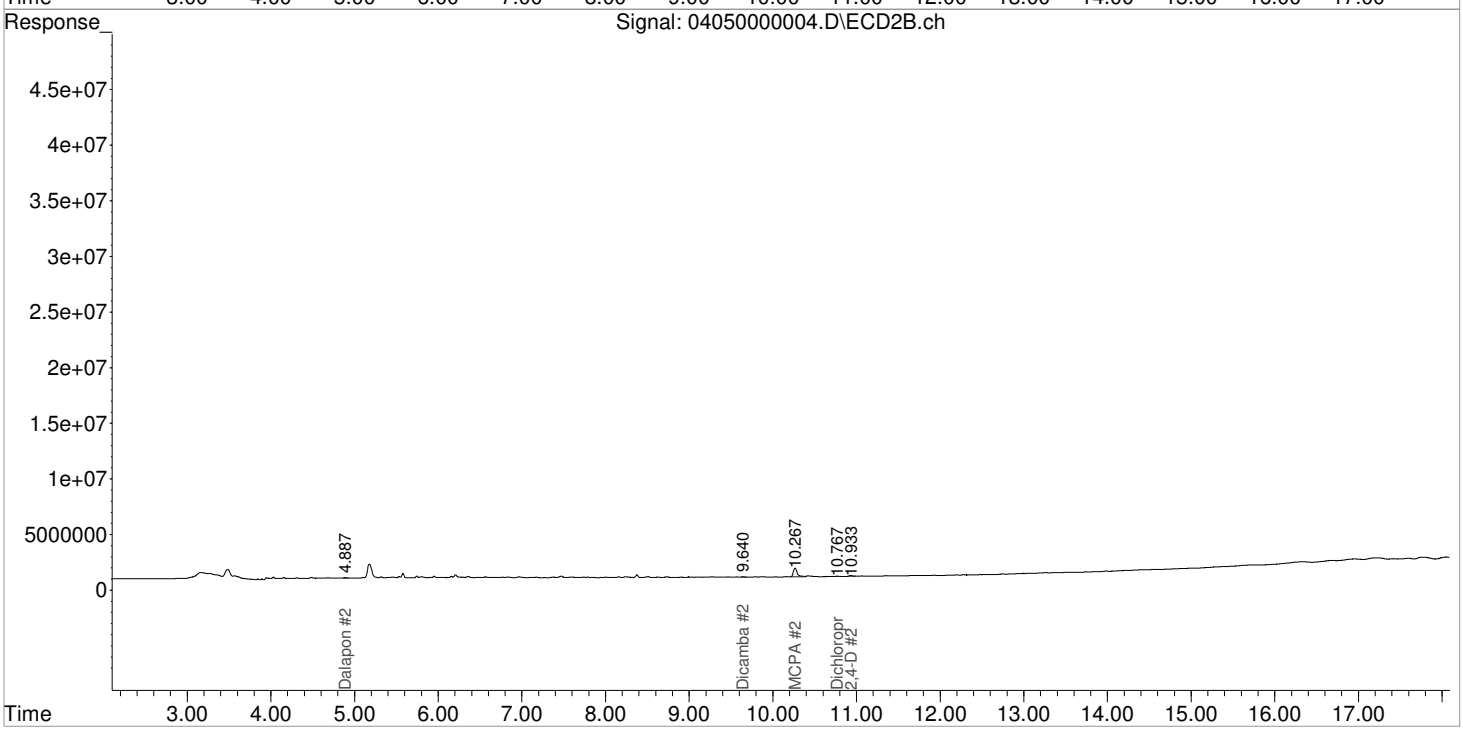
1st JTC 04/06/21
2nd 4w 04/06/21

Data File : J:\GC34\DATA\040521\04050000004.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05-Apr-2021, 12:00:50 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 06 08:39:12 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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





Quantitation Report (QT Reviewed)

1st JTC 04/06/21
2nd 4w 04/06/21

Data File : J:\GC34\DATA\040521\04050000005.D Vial: 86
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05-Apr-2021, 12:24:47 Operator: JTC
Sample : PENTA02-26L 10 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 05 15:35:17 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_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	11489163	4118407	11.151	10.997	
		Target Compounds							
1)	m	Dalapon	5.697	4.850	9332773	5071535	9.542	10.686	
3)	m	Dicamba	11.147	9.667	26105500	11744209	7.941	9.780	
4)	m	MCPP	11.307	10.017	6453072	3763634	1418.117	1024.728	#
5)	m	MCPA	11.557	10.310	9312944	4353609	1363.957	1236.178	
6)	m	Dichloroprop	11.977	10.757	9658403	4476208	10.151	12.859	#
7)	m	2,4-D	12.280	10.947	10784253	7887533	11.027	10.669	
8)	m	2,4,5-TP ...	13.347	11.510	44018853	13180632	10.260	9.010	
9)	m	2,4,5-T	13.727	12.053	40614115	10668977	12.044	9.267	
10)	m	2,4-DB	14.327	12.553	8148606	1895673	18.671	12.684	#
11)	m	Dinoseb	14.477	12.440	33497354	10465066	12.944	11.340	

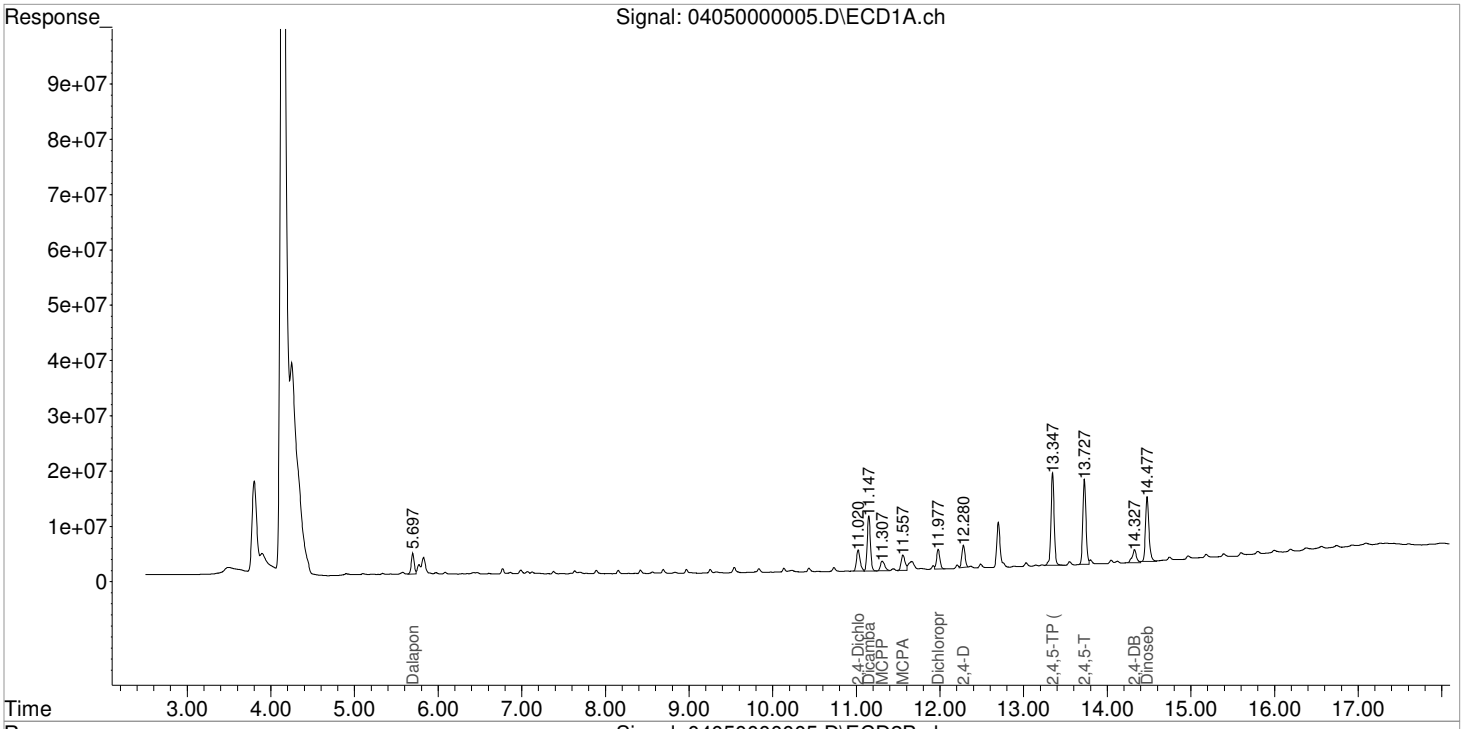
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

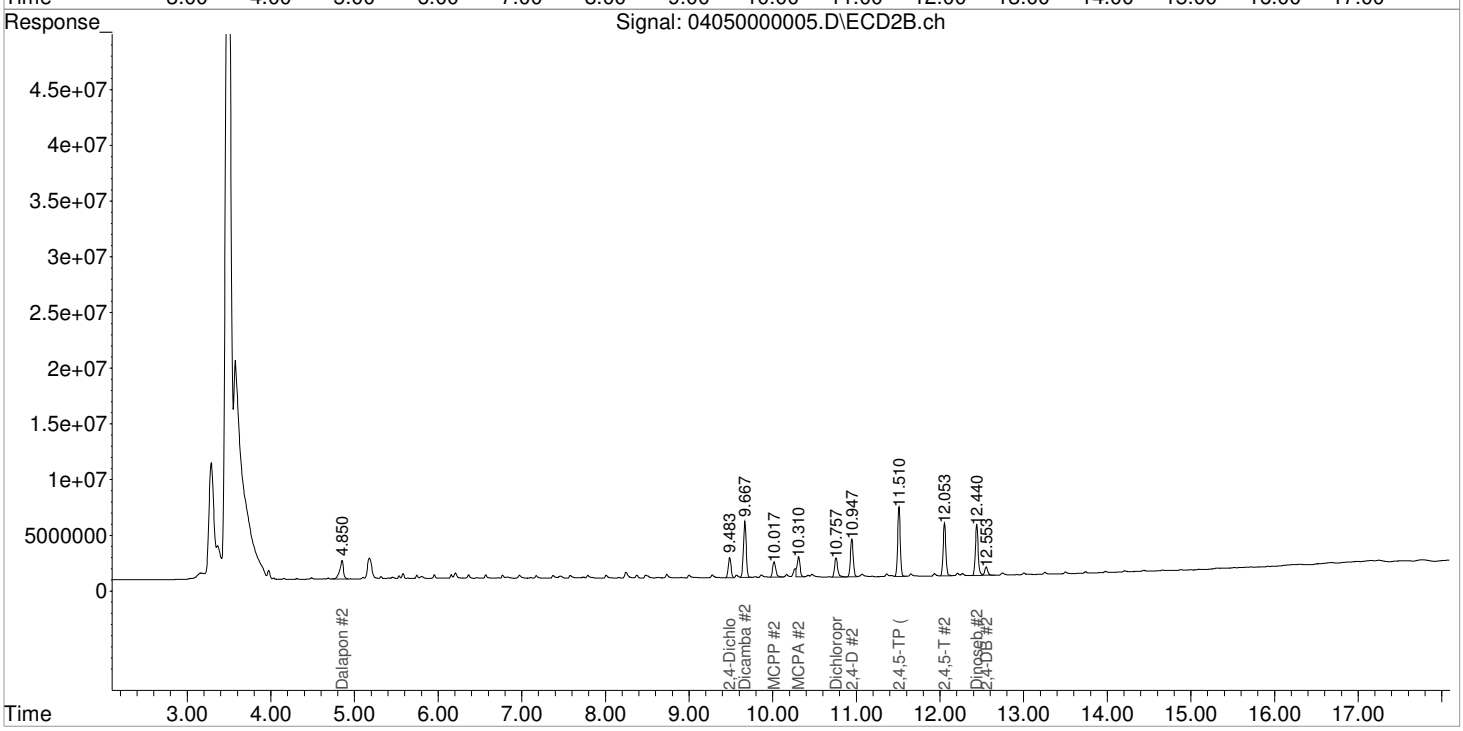
1st JTC 04/06/21
2nd 4w 04/06/21

Data File : J:\GC34\DATA\040521\04050000005.D Vial: 86
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05-Apr-2021, 12:24:47 Operator: JTC
Sample : PENTA02-26L 10 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 05 15:35:17 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_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





Quantitation Report (QT Reviewed)

1st JTC 04/06/21
2nd 4w 04/06/21

Data File : J:\GC34\DATA\040521\04050000006.D Vial: 87
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05-Apr-2021, 12:48:47 Operator: JTC
Sample : PENTA02-26M 25 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 05 15:35:20 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_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	23109729	9515099	22.430	25.407
		Target Compounds						
1)	m	Dalapon	5.700	4.857	22391558	11608576	22.895	24.459
3)	m	Dicamba	11.153	9.670	66180371	29147285	20.131	24.273
4)	m	MCPP	11.310	10.020	11033079	7689855	2424.612	2895.328
5)	m	MCPA	11.560	10.313	18749713	10959165	2746.050	3111.781
6)	m	Dichloroprop	11.983	10.760	22286494	9190424	23.424	26.401
7)	m	2,4-D	12.283	10.950	26857923	18410970	27.463	24.904
8)	m	2,4,5-TP ...	13.350	11.513	106.2E6	33555487	24.749	22.939
9)	m	2,4,5-T	13.730	12.057	100.6E6	27219693	29.829	23.642
10)	m	2,4-DB	14.330	12.557	15571072	4090388	35.678	27.369
11)	m	Dinoseb	14.480	12.443	75004139	23665010	28.984	25.643

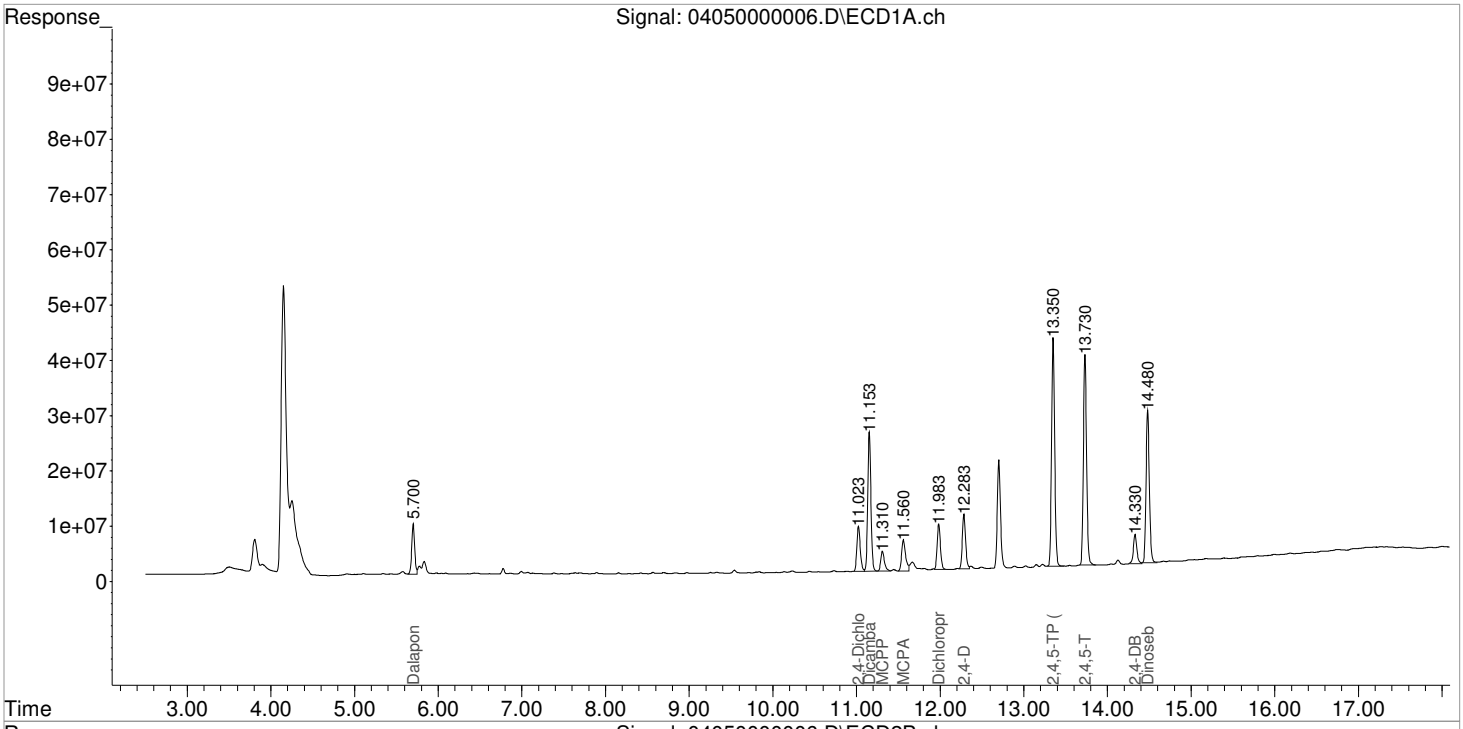
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

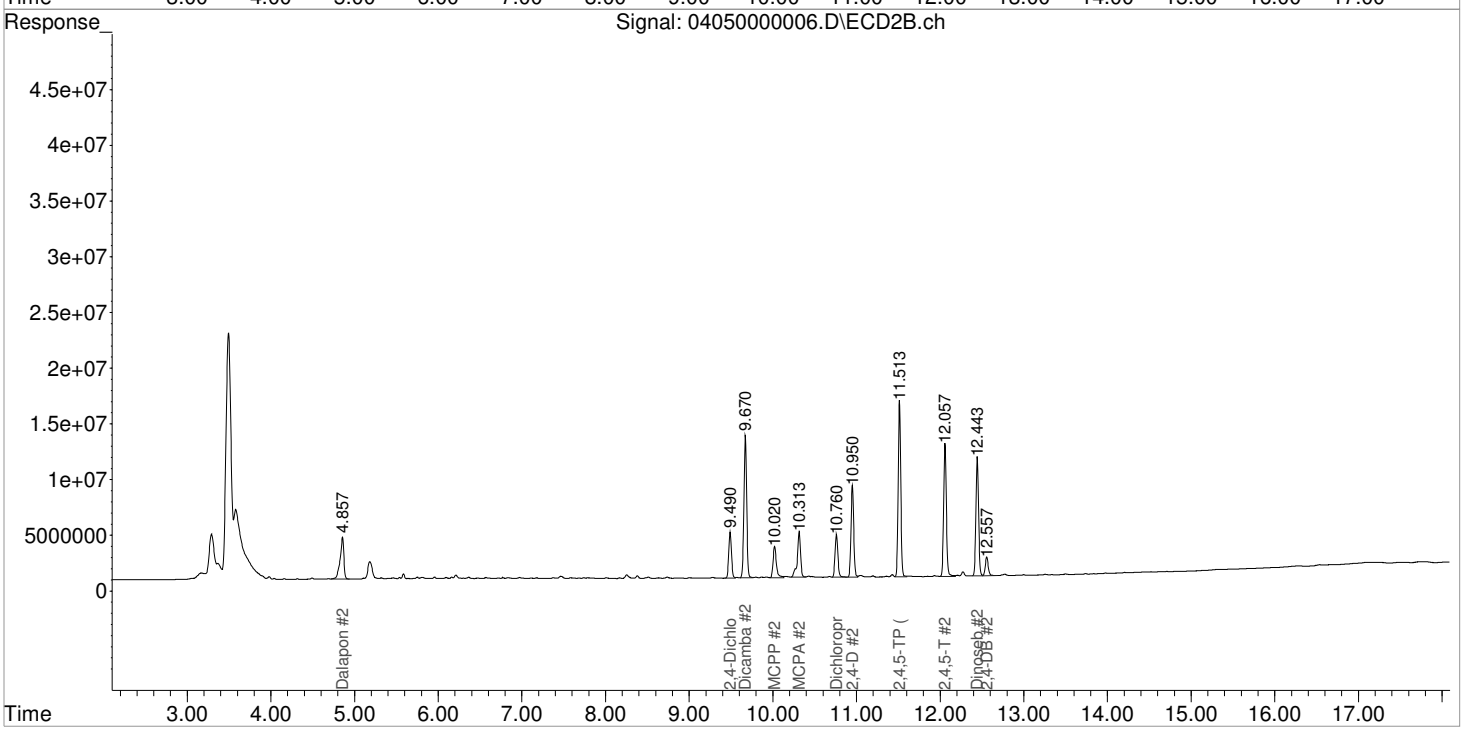
1st JTC 04/06/21
2nd 4w 04/06/21

Data File : J:\GC34\DATA\040521\04050000006.D Vial: 87
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05-Apr-2021, 12:48:47 Operator: JTC
Sample : PENTA02-26M 25 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 05 15:35:20 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_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





Quantitation Report (QT Reviewed)

1st JTC 04/06/21
2nd 4w 04/06/21

Data File : J:\GC34\DATA\040521\04050000007.D Vial: 88
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05-Apr-2021, 13:12:56 Operator: JTC
Sample : PENTA02-26N 75 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 05 15:35:23 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_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	68007468	27771046	66.008	74.154	
		Target Compounds							
1)	m	Dalapon	5.693	4.850	70049473	34565962	71.623	72.831	
3)	m	Dicamba	11.147	9.667	218.0E6	96073979	66.323	80.007	
4)	m	MCPP	11.303	10.013	28921919	19160113	6355.835	8458.574	#
5)	m	MCPA	11.553	10.310	47811485	28783003	7002.386	8172.741	
6)	m	Dichloroprop	11.977	10.753	67614759	27385973	71.066	78.672	
7)	m	2,4-D	12.277	10.943	84389974	55782378	86.292	75.456	
8)	m	2,4,5-TP ...	13.343	11.507	348.8E6	109.6E6	81.310	74.896	
9)	m	2,4,5-T	13.723	12.050	329.4E6	90185495	97.696	78.333	
10)	m	2,4-DB	14.323	12.550	46678787	12104731	106.954	80.993	
11)	m	Dinoseb	14.473	12.437	235.7E6	71892009	91.087	77.901	

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

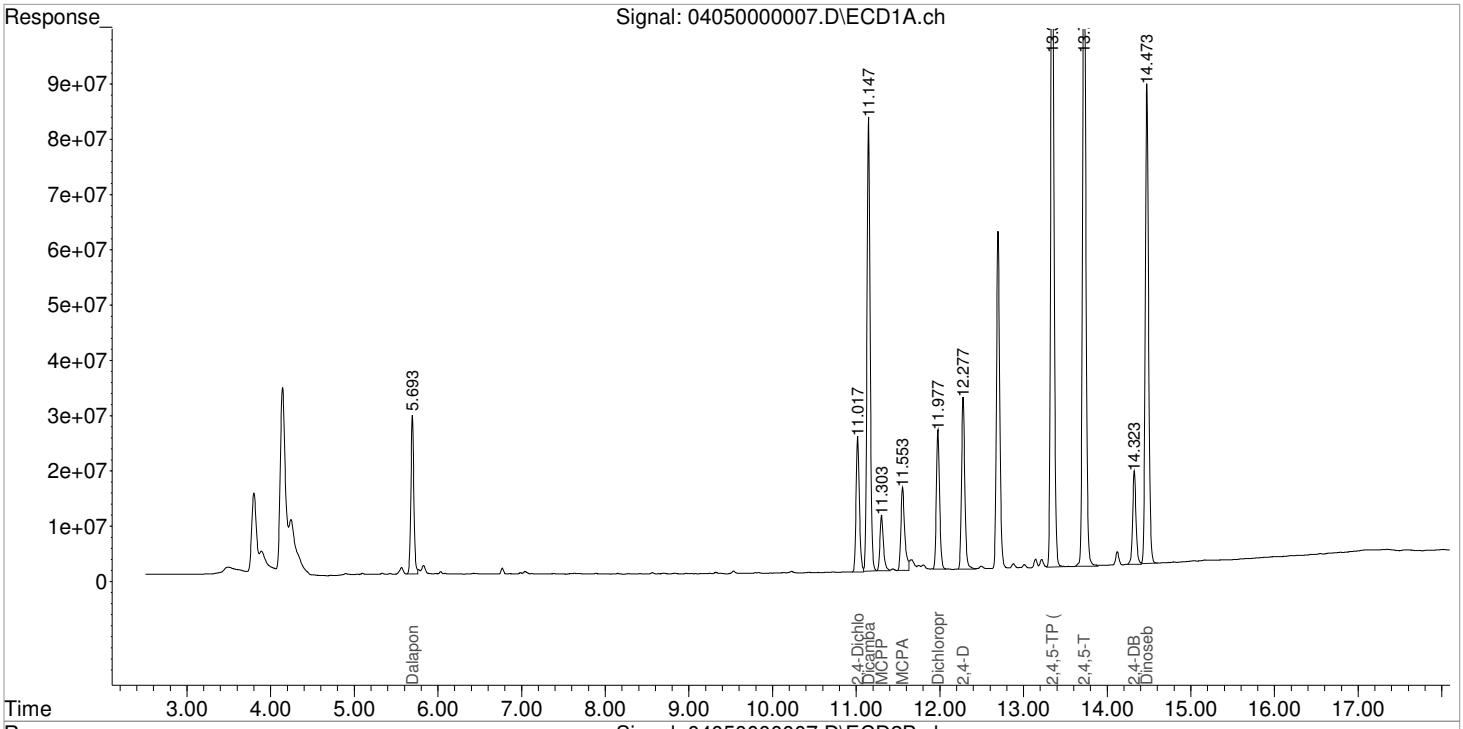
Quantitation Report (QT Reviewed)

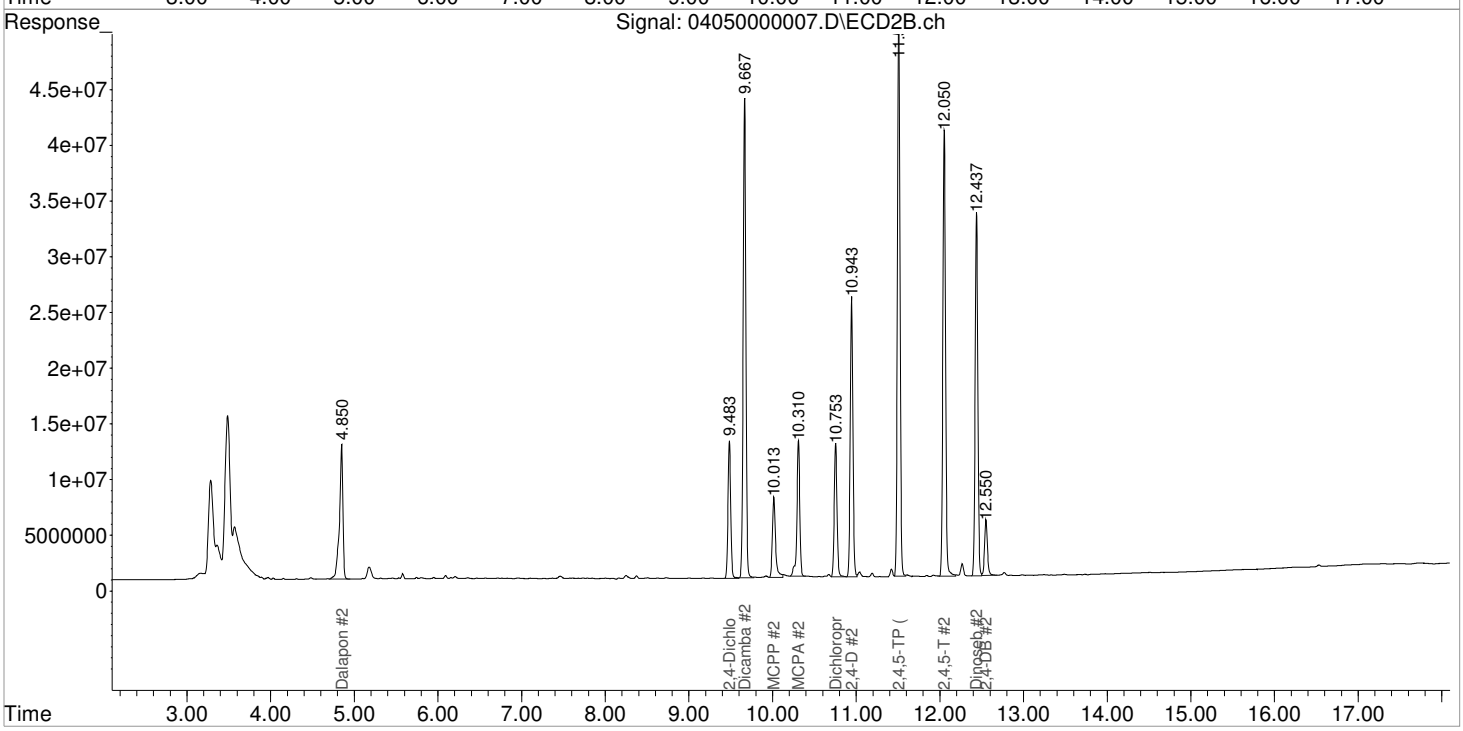
1st JTC 04/06/21
2nd 4w 04/06/21

Data File : J:\GC34\DATA\040521\04050000007.D Vial: 88
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05-Apr-2021, 13:12:56 Operator: JTC
Sample : PENTA02-26N 75 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 05 15:35:23 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_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





Quantitation Report (QT Reviewed)

1st JTC 04/06/21
2nd 4w 04/06/21

Data File : J:\GC34\DATA\040521\04050000008.D Vial: 89
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05-Apr-2021, 13:37:01 Operator: JTC
Sample : PENTA02-27A 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 05 15:33:53 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Mon Apr 05 15:33:36 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	89817449	36104562	87.176	96.406	
		Target Compounds							
1)	m	Dalapon	5.693	4.850	94684947	45164236	96.812	95.161	
3)	m	Dicamba	11.147	9.667	292.7E6	128.1E6	89.025	106.641	
4)	m	MCPP	11.303	10.013	37432304	23933953	8226.063	10819.259	#
5)	m	MCPA	11.553	10.310	61689785	36972063	9034.978	10497.969	
6)	m	Dichloroprop	11.977	10.753	90161055	35805957	94.763	102.860	
7)	m	2,4-D	12.277	10.943	112.4E6	73099308	114.888	98.881	
8)	m	2,4,5-TP ...	13.343	11.507	470.4E6	144.7E6	109.645	98.949	
9)	m	2,4,5-T	13.723	12.053	442.8E6	120.5E6	131.322	104.632	
10)	m	2,4-DB	14.323	12.550	62696267	15926651	143.654	106.566	#
11)	m	Dinoseb	14.473	12.440	315.5E6	94178104	121.912	102.049	

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

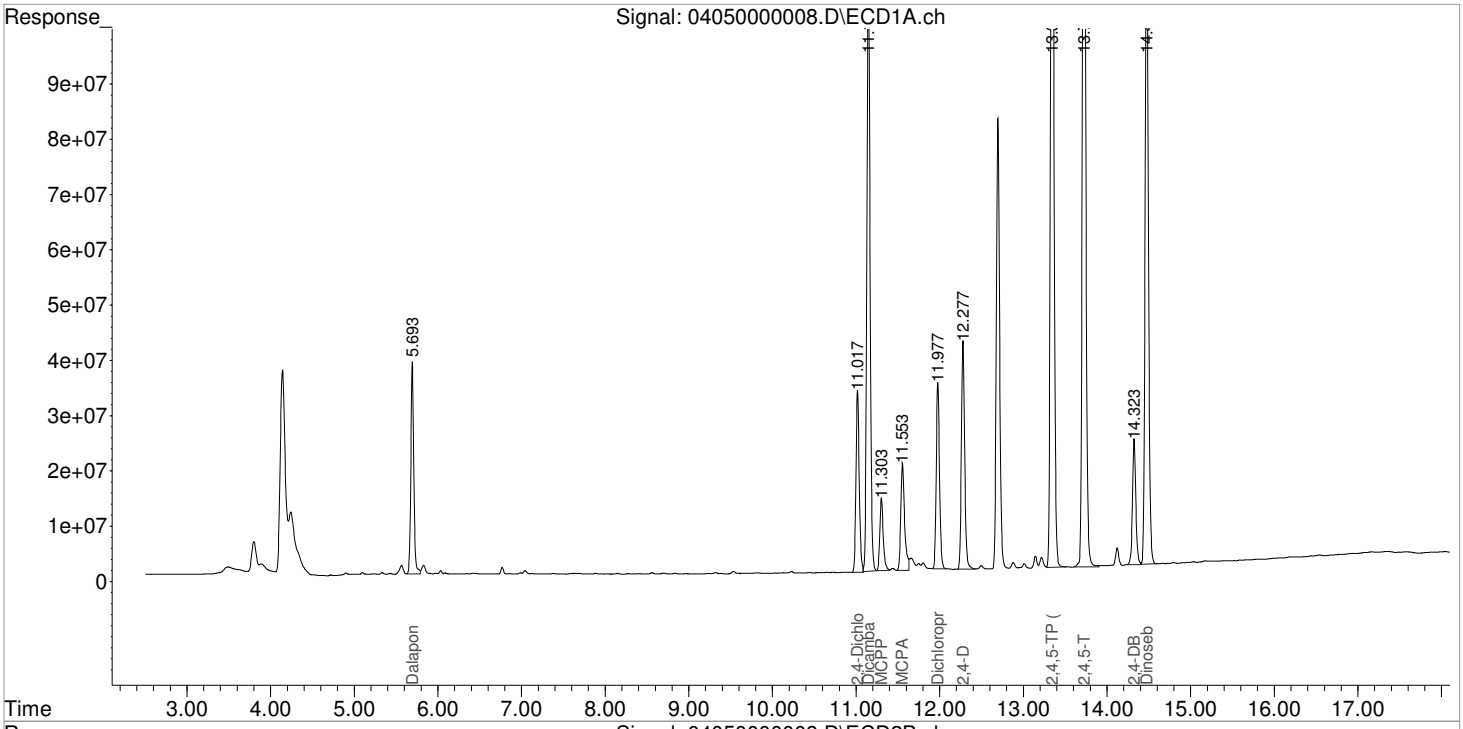
Quantitation Report (QT Reviewed)

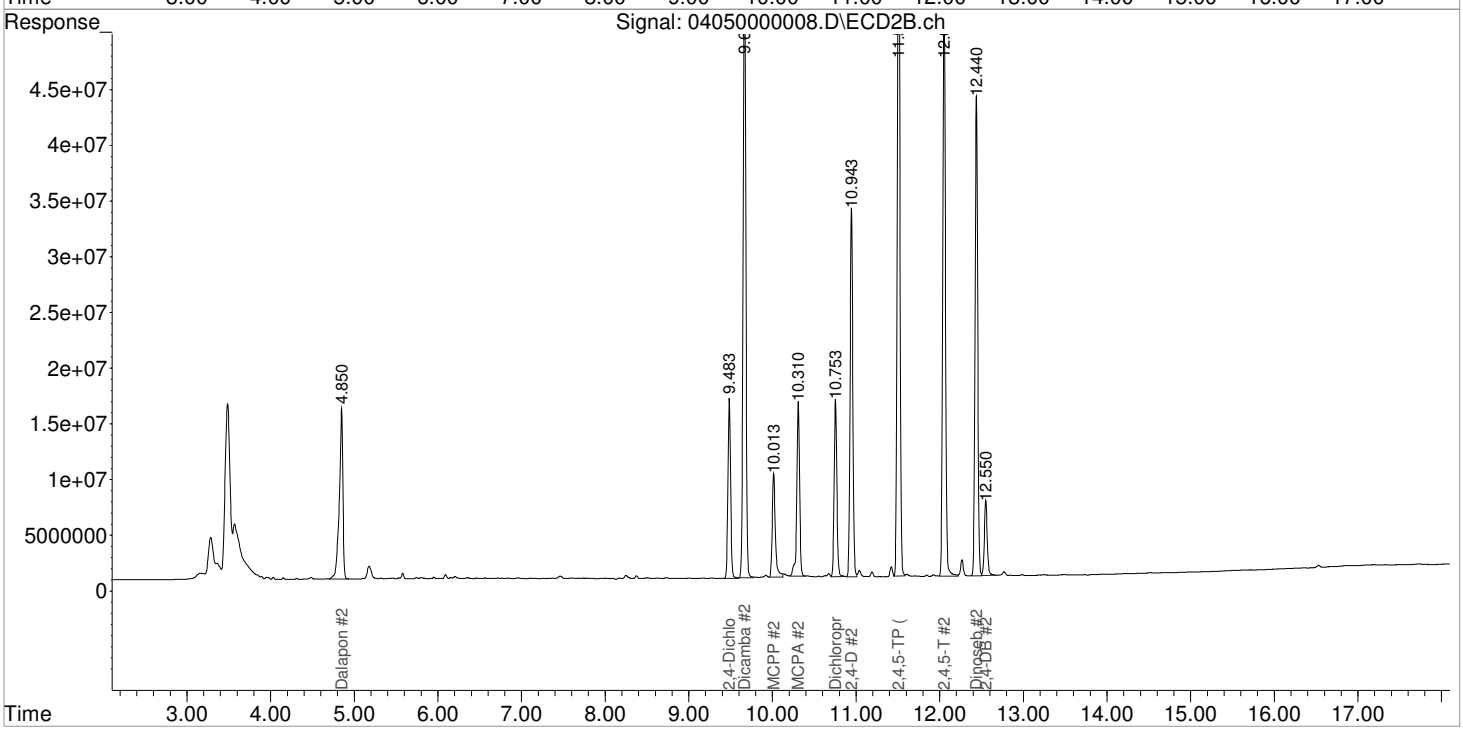
1st JTC 04/06/21
2nd 4w 04/06/21

Data File : J:\GC34\DATA\040521\04050000008.D Vial: 89
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05-Apr-2021, 13:37:01 Operator: JTC
Sample : PENTA02-27A 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 05 15:33:53 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Mon Apr 05 15:33:36 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





Quantitation Report (QT Reviewed)

1st JTC 04/06/21
2nd 4w 04/06/21

Data File : J:\GC34\DATA\040521\04050000009.D Vial: 90
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05-Apr-2021, 14:01:08 Operator: JTC
Sample : PENTA02-27B 125 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 05 15:39:25 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_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	110.8E6	44631672	107.561	119.174	
		Target Compounds							
1)	m	Dalapon	5.693	4.850	115.1E6	56374149	117.725	118.781	
3)	m	Dicamba	11.147	9.667	363.0E6	161.5E6	110.424	134.476	
4)	m	MCPP	11.303	10.013	45846873	28812322	10075.235	13260.579	#
5)	m	MCPA	11.553	10.310	74730140	43554209	10944.845	12366.925	
6)	m	Dichloroprop	11.977	10.753	110.9E6	44896446	116.594	128.974	
7)	m	2,4-D	12.277	10.943	137.5E6	91567426	140.650	123.862	
8)	m	2,4,5-TP ...	13.343	11.510	577.3E6	182.2E6	134.565	124.539	
9)	m	2,4,5-T	13.723	12.053	542.5E6	151.7E6	160.879	131.767	
10)	m	2,4-DB	14.323	12.550	76582094	19883764	175.471	133.043	
11)	m	Dinoseb	14.473	12.437	383.6E6	117.0E6	148.241	126.830	

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

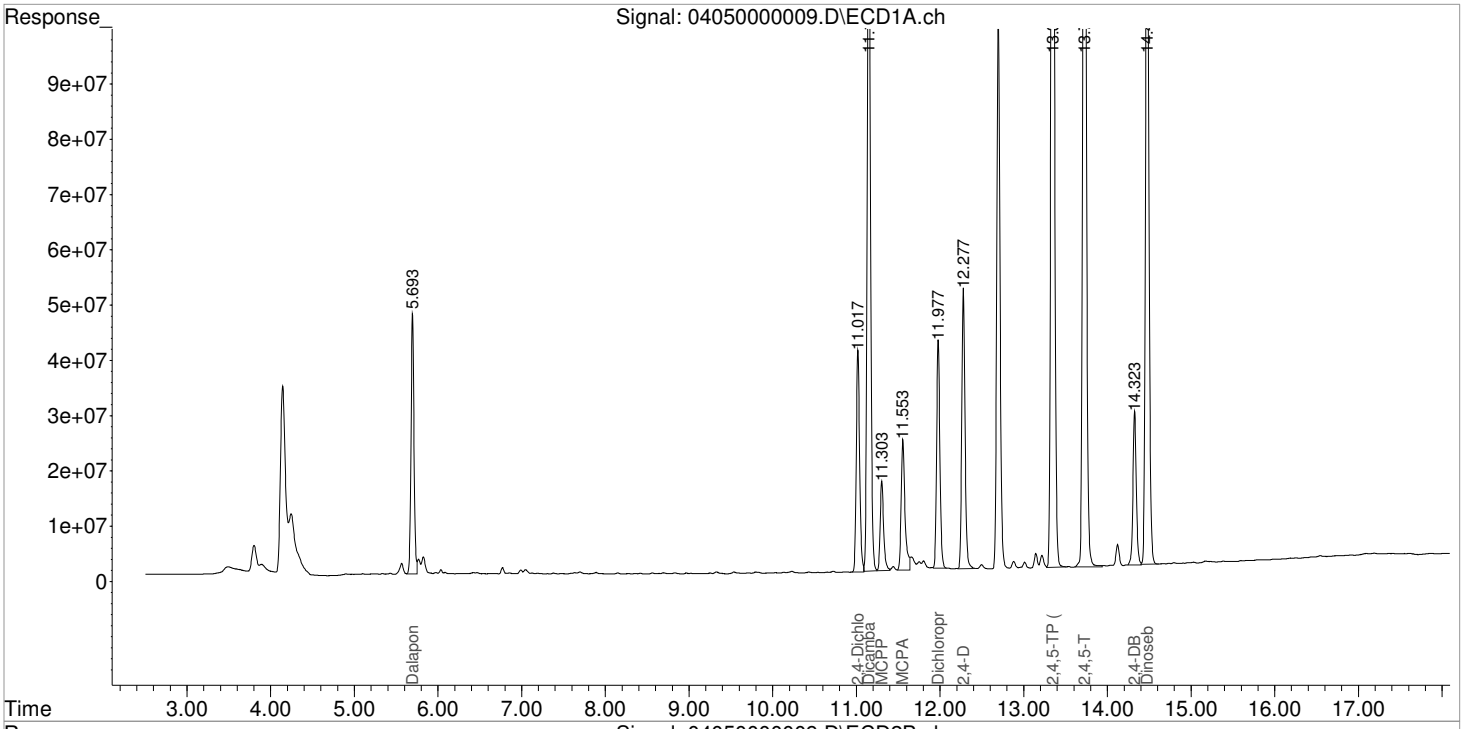
Quantitation Report (QT Reviewed)

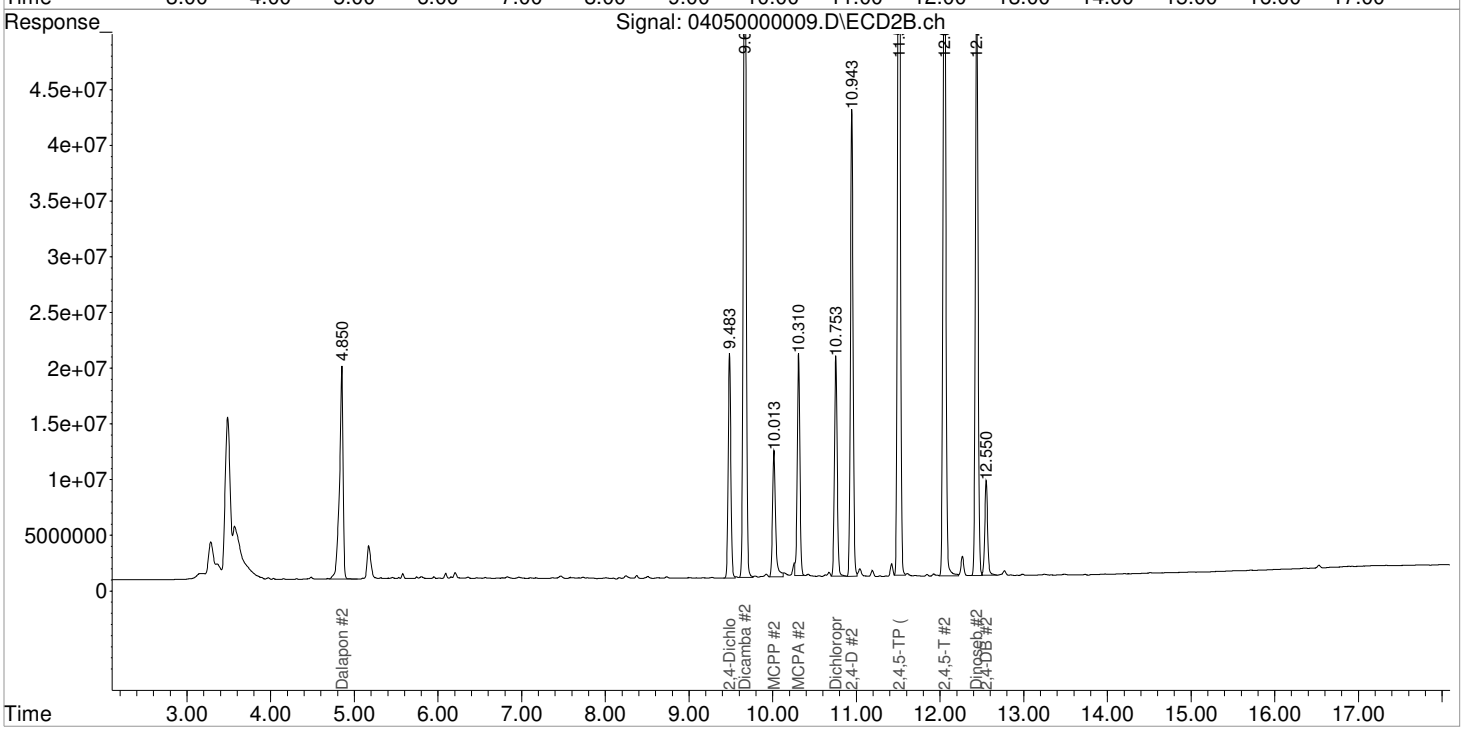
1st JTC 04/06/21
2nd 4w 04/06/21

Data File : J:\GC34\DATA\040521\04050000009.D Vial: 90
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05-Apr-2021, 14:01:08 Operator: JTC
Sample : PENTA02-27B 125 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 05 15:39:25 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_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





Quantitation Report (QT Reviewed)

1st JTC 04/06/21
2nd 4w 04/06/21

Data File : J:\GC34\DATA\040521\04050000010.D Vial: 91
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05-Apr-2021, 14:25:21 Operator: JTC
Sample : PENTA02-27C 150 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 05 15:39:29 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_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	132.7E6	52507434	128.813	140.204	
		Target Compounds							
1)	m	Dalapon	5.697	4.850	137.5E6	66043797	140.592	139.155	
3)	m	Dicamba	11.150	9.667	436.0E6	191.9E6	132.618	159.777	
4)	m	MCPP	11.303	10.017	53360599	33394689	11726.440	15581.385	#
5)	m	MCPA	11.557	10.310	89232512	51304415	13068.837	14567.544	
6)	m	Dichloroprop	11.980	10.753	134.1E6	53852445	140.918	154.702	
7)	m	2,4-D	12.280	10.947	167.6E6	108.9E6	171.428	147.296	
8)	m	2,4,5-TP ...	13.347	11.510	710.3E6	217.5E6	165.569	148.714	
9)	m	2,4,5-T	13.727	12.053	672.5E6	182.0E6	199.443	158.114	
10)	m	2,4-DB	14.327	12.553	95929522	23636469	219.801	158.152	#
11)	m	Dinoseb	14.477	12.440	473.2E6	138.4E6	182.858	149.955	

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

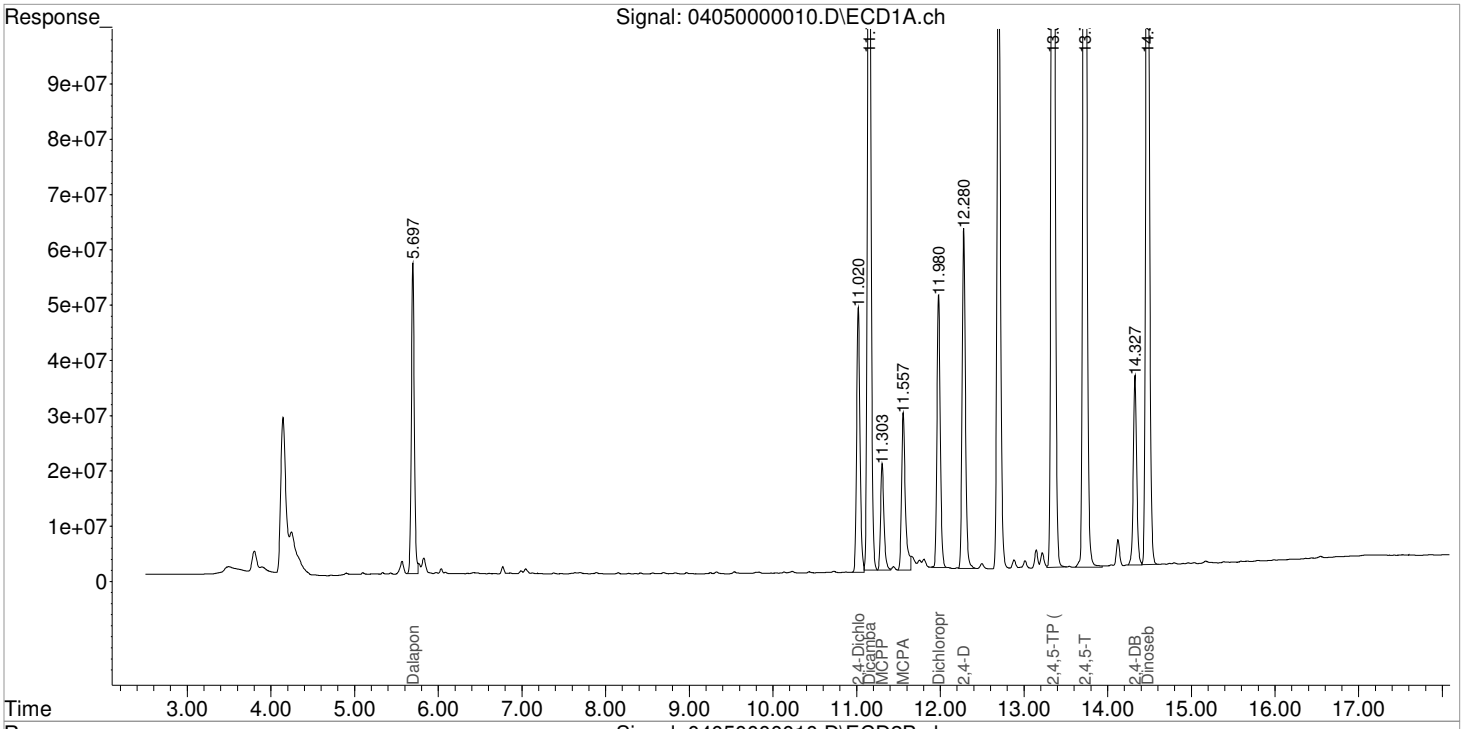
Quantitation Report (QT Reviewed)

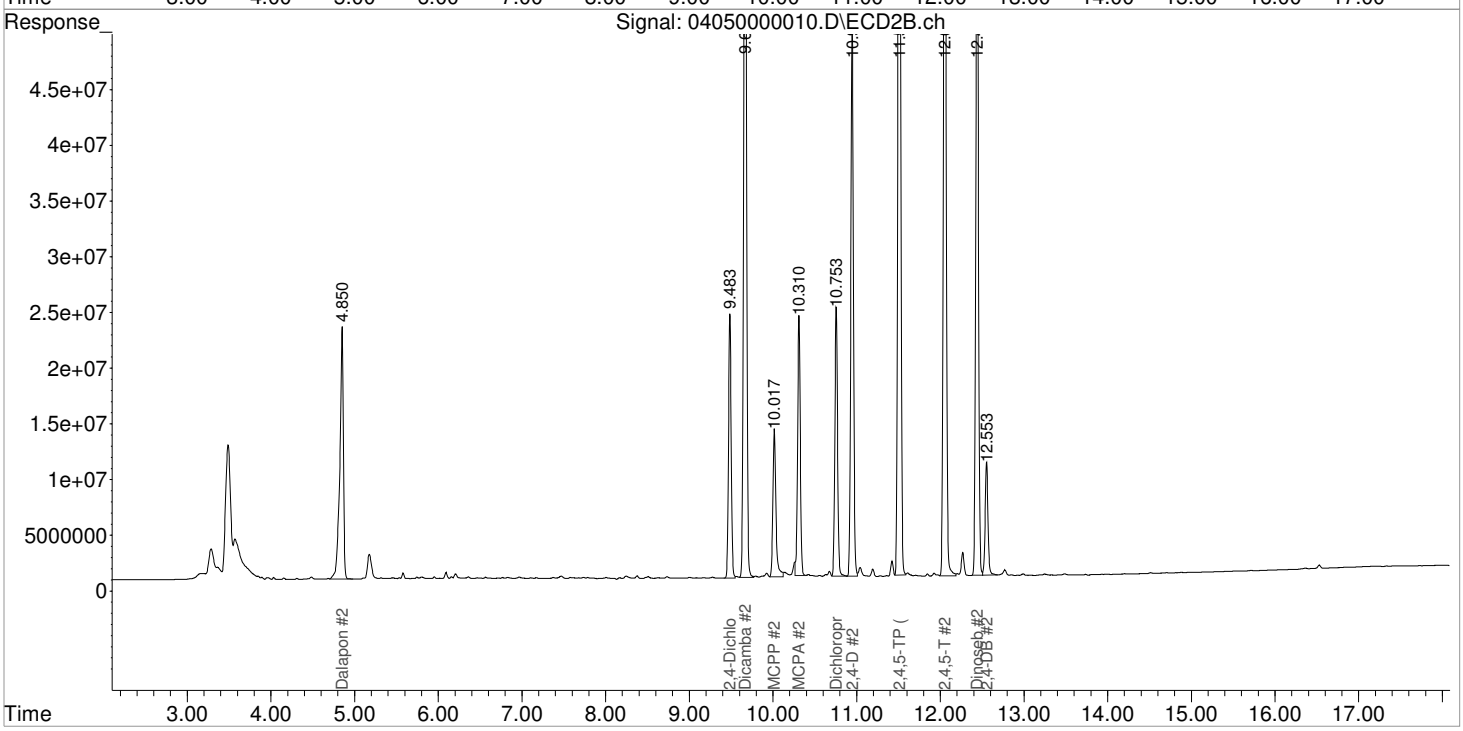
1st JTC 04/06/21
2nd 4w 04/06/21

Data File : J:\GC34\DATA\040521\04050000010.D Vial: 91
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05-Apr-2021, 14:25:21 Operator: JTC
Sample : PENTA02-27C 150 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 05 15:39:29 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_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





Quantitation Report (QT Reviewed)

1st JTC 04/06/21
2nd 4w 04/06/21

Data File : J:\GC34\DATA\040521\04050000011.D Vial: 92
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05-Apr-2021, 14:49:29 Operator: JTC
Sample : PENTA02-27D 175 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 05 15:39:32 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_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	152.4E6	61268307	147.933	163.597	
		Target Compounds							
1)	m	Dalapon	5.693	4.850	161.6E6	77806035	165.278	163.938	
3)	m	Dicamba	11.147	9.667	506.2E6	227.5E6	153.967	189.433	
4)	m	MCPP	11.303	10.013	61008252	38199432	13407.076	18044.617	#
5)	m	MCPA	11.553	10.310	109.5E6	59326967	16035.034	16845.494	
6)	m	Dichloroprop	11.977	10.753	154.2E6	62042565	162.113	178.230	
7)	m	2,4-D	12.277	10.943	191.7E6	126.0E6	196.054	170.459	
8)	m	2,4,5-TP ...	13.343	11.507	807.7E6	252.9E6	188.264	172.856	
9)	m	2,4,5-T	13.723	12.050	753.3E6	210.9E6	223.402	183.208	
10)	m	2,4-DB	14.323	12.550	106.6E6	27405393	244.213	183.370	
11)	m	Dinoseb	14.473	12.437	529.8E6	159.7E6	204.723	173.016	

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

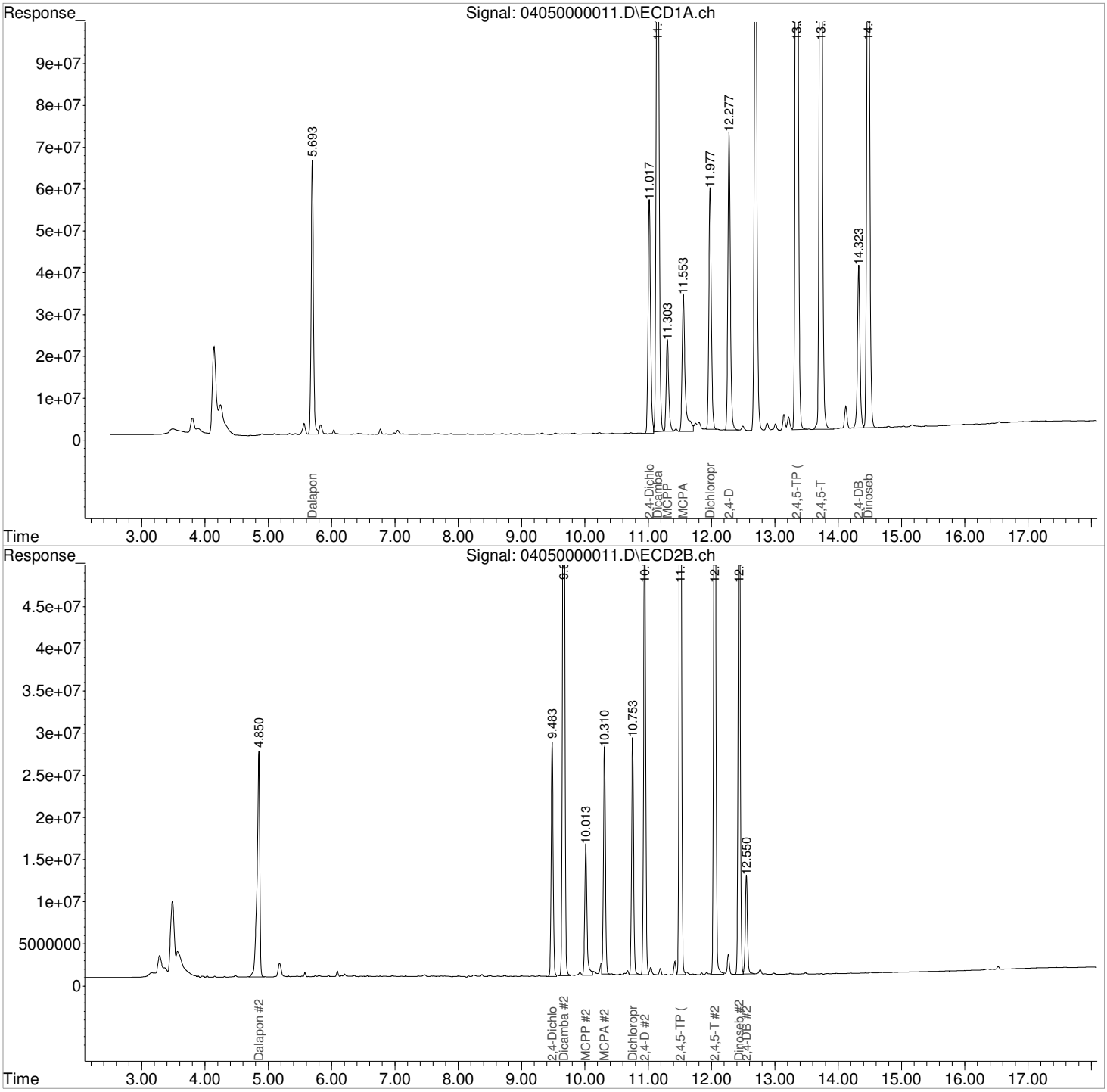
Quantitation Report (QT Reviewed)

1st JTC 04/06/21
2nd 4w 04/06/21

Data File : J:\GC34\DATA\040521\04050000011.D Vial: 92
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05-Apr-2021, 14:49:29 Operator: JTC
Sample : PENTA02-27D 175 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 05 15:39:32 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_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



Quantitation Report (QT Reviewed)

1st JTC 04/06/21
2nd 4w 04/06/21

Data File : J:\GC34\DATA\040521\04050000012.D Vial: 93
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05-Apr-2021, 15:13:29 Operator: JTC
Sample : PENTA02-27E 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 05 15:39:35 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_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	9.480	175.4E6	70177505	170.199	187.386	
		Target Compounds							
1)	m	Dalapon	5.690	4.847	185.8E6	88810634	189.972	187.125	
3)	m	Dicamba	11.143	9.663	588.2E6	261.7E6	178.922	217.897	
4)	m	MCPP	11.300	10.013	69630913	43206658	15301.978	20645.368	#
5)	m	MCPA	11.553	10.307	124.0E6	68046723	18163.978	19321.410	
6)	m	Dichloroprop	11.973	10.750	179.3E6	72170107	188.443	207.323	
7)	m	2,4-D	12.277	10.940	223.4E6	145.2E6	228.463	196.430	
8)	m	2,4,5-TP ...	13.343	11.507	951.9E6	292.7E6	221.873	200.079	
9)	m	2,4,5-T	13.723	12.050	893.7E6	245.1E6	265.027	212.918	
10)	m	2,4-DB	14.320	12.547	127.6E6	31730255	292.394	212.308	#
11)	m	Dinoseb	14.470	12.437	628.4E6	183.9E6	242.845	199.248	

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

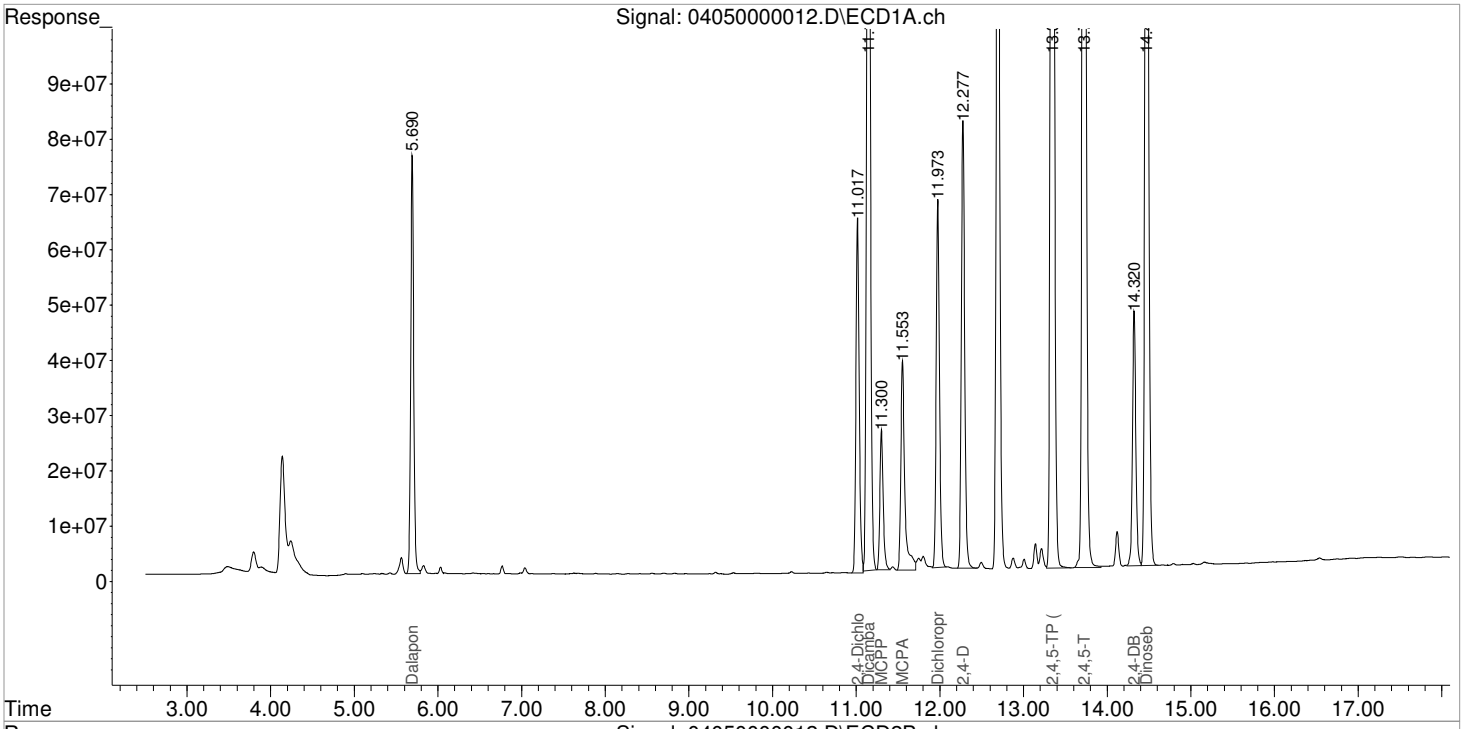
Quantitation Report (QT Reviewed)

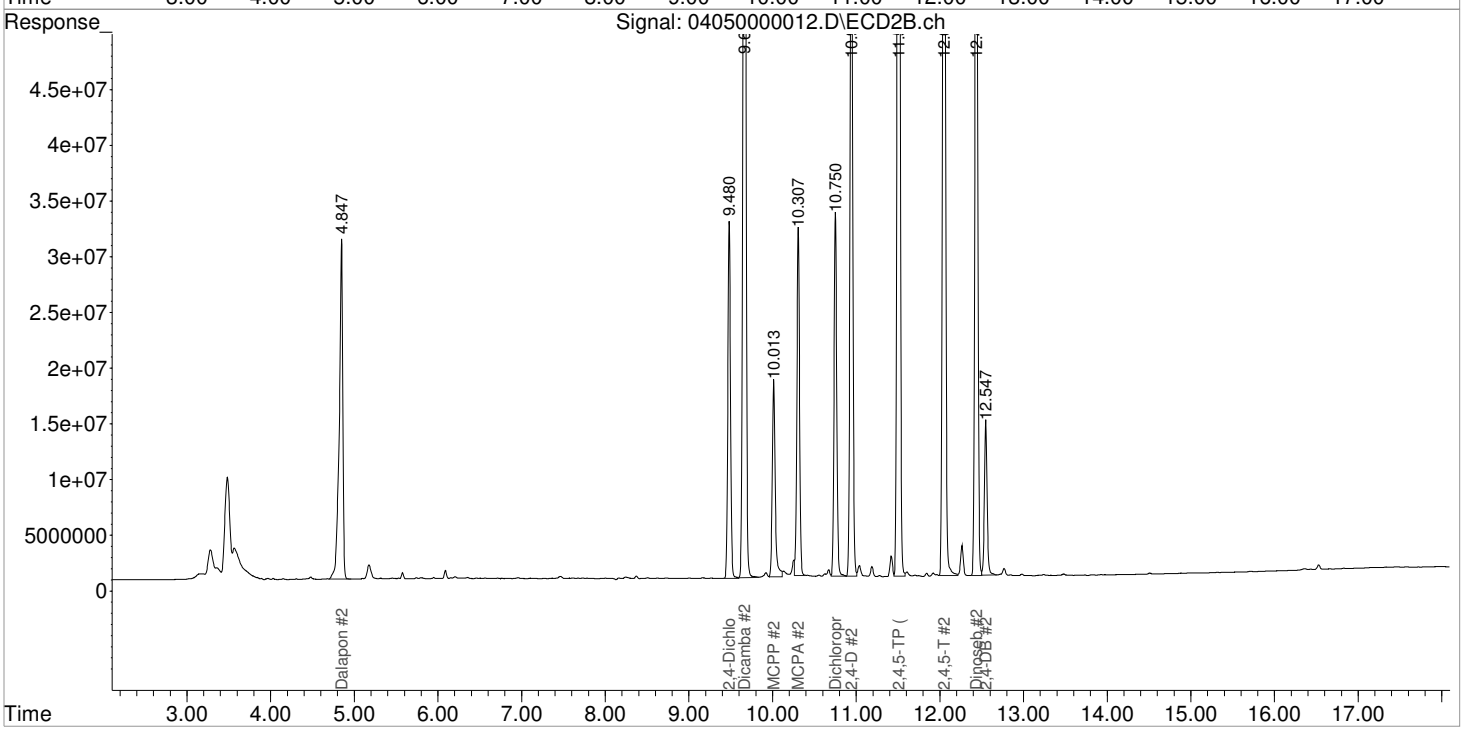
1st JTC 04/06/21
2nd 4w 04/06/21

Data File : J:\GC34\DATA\040521\04050000012.D Vial: 93
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05-Apr-2021, 15:13:29 Operator: JTC
Sample : PENTA02-27E 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 05 15:39:35 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_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





Quantitation Report (QT Reviewed)

1st JTC 04/06/21
2nd 4w 04/06/21

Data File : J:\GC34\DATA\040521\04050000013.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05-Apr-2021, 15:37:23 Operator: JTC
Sample : PENTA02-26K 100PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 06 08:37:33 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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	5.690	4.847	93822239	46220530	92.374	91.913
3)	m	Dicamba	11.143	9.663	294.8E6	127.1E6	97.521	94.859
4)	m	MCPP	11.300	10.010	36616908	22498540	9359.028	8664.222
5)	m	MCPA	11.550	10.307	59918503	31295814	8957.587	7808.225
6)	m	Dichloroprop	11.973	10.750	80784141	31326698	84.485	79.585
7)	m	2,4-D	12.273	0.000	97061702	0	82.659	N.D. d#
8)	m	2,4,5-TP ...	13.340	11.507	429.0E6	132.7E6	88.823	88.627
9)	m	2,4,5-T	13.720	12.047	423.1E6	114.8E6	93.007	92.448
10)	m	2,4-DB	14.320	12.547	58181039	15358791	84.969	89.091
11)	m	Dinoseb	14.470	12.437	296.9E6	90713095	89.624	90.416

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

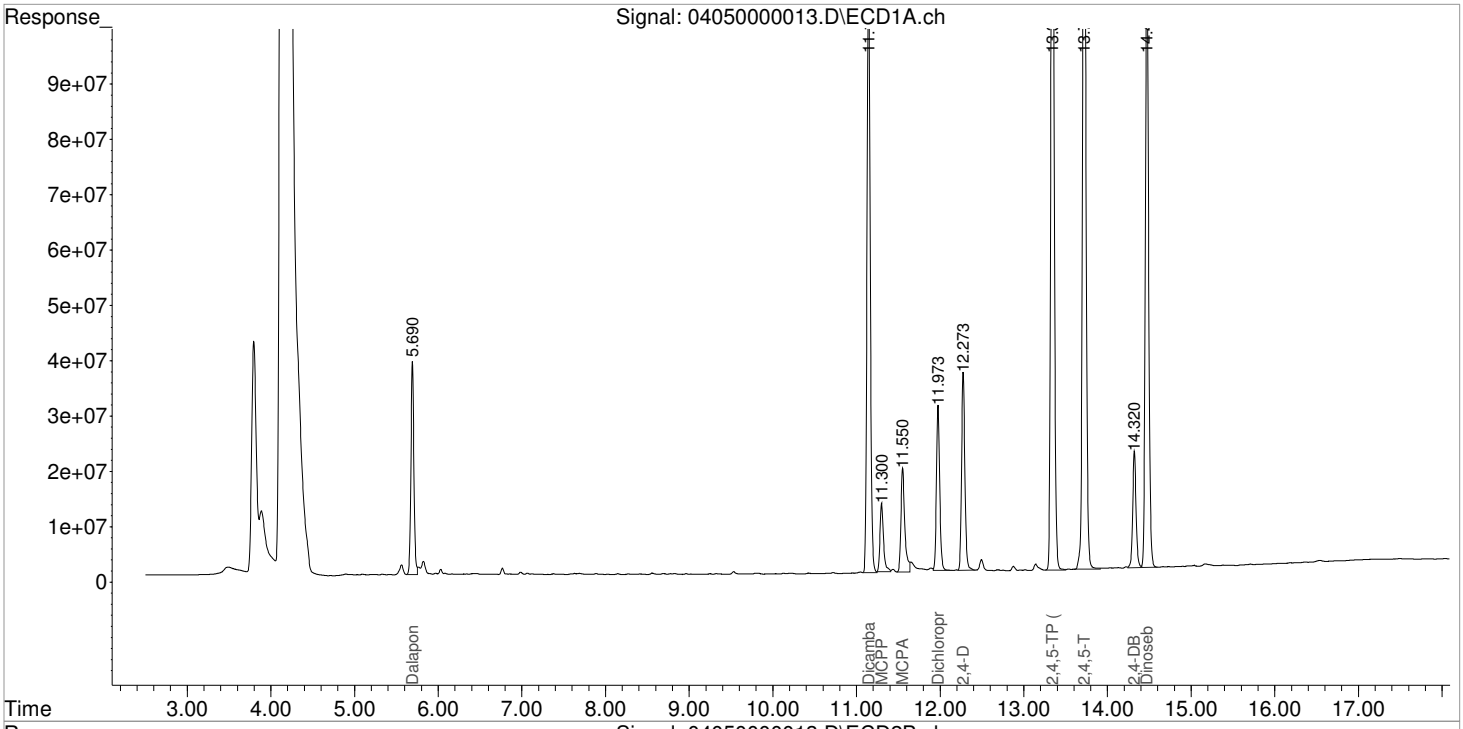
Quantitation Report (QT Reviewed)

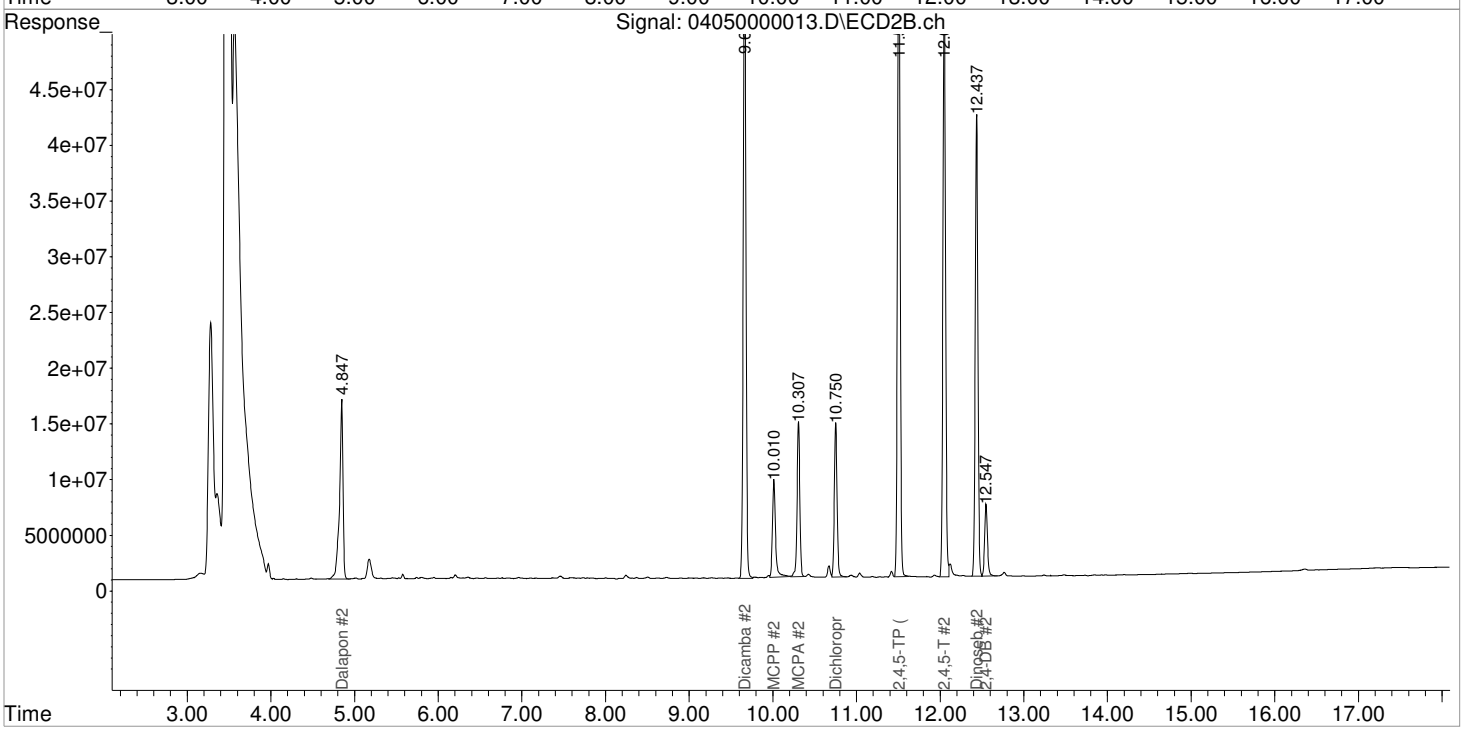
1st JTC 04/06/21
2nd 4w 04/06/21

Data File : J:\GC34\DATA\040521\04050000013.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05-Apr-2021, 15:37:23 Operator: JTC
Sample : PENTA02-26K 100PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 06 08:37:33 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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



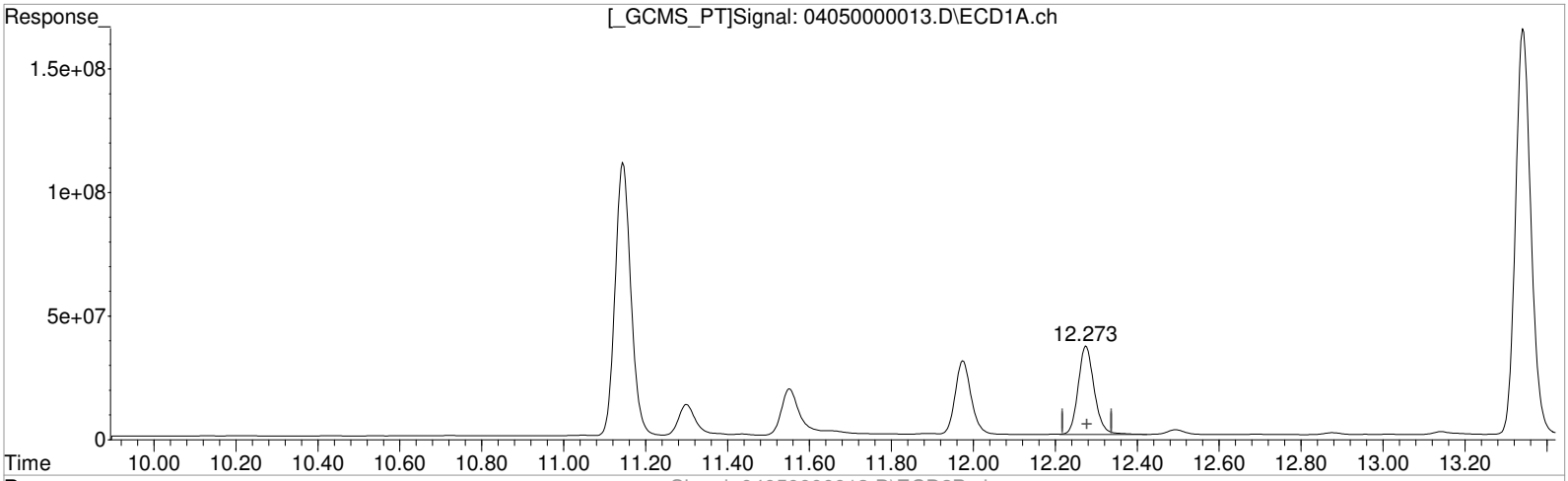


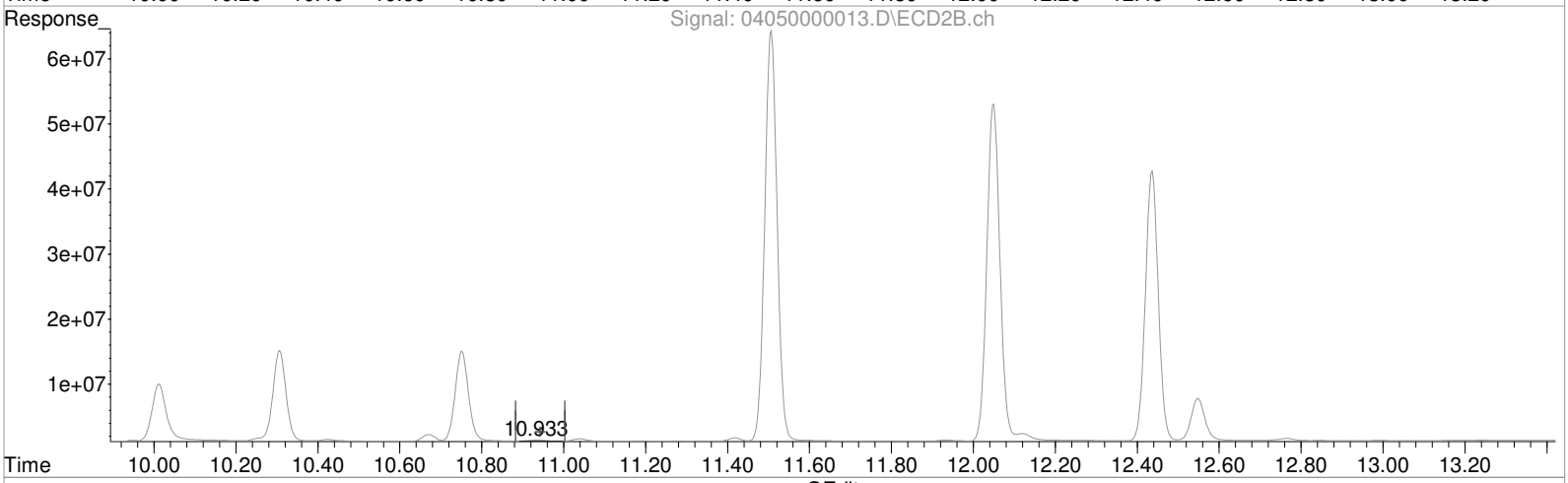
1st JTC 04/06/21
2nd 4w 04/06/21

Data File : J:\GC34\DATA\040521\04050000013.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05-Apr-2021, 15:37:23 Operator: JTC
Sample : PENTA02-26K 100PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 06 08:36:37 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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

(7) 2,4-D (m)

12.273min 82.659 ppb

response 97061702

(7) 2,4-D #2 (m)

10.933min 0.685 ppb

response 537601

Manual Integration:

Before

04/06/21

(+) = Expected Retention Time

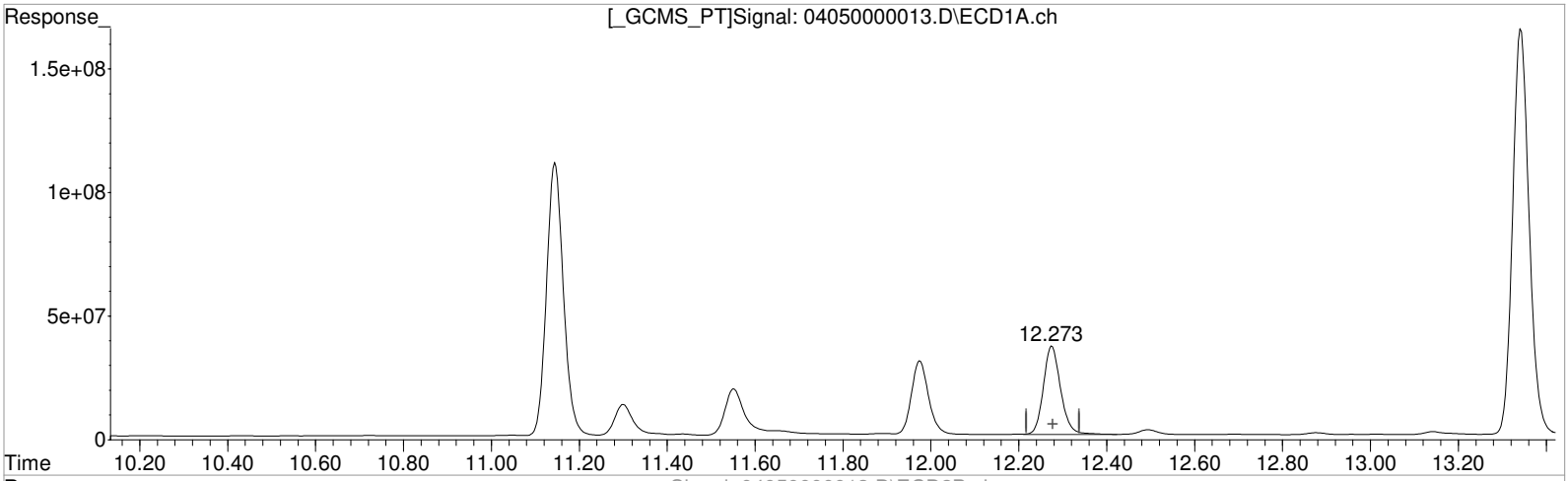
Quantitation Report (Qedit)

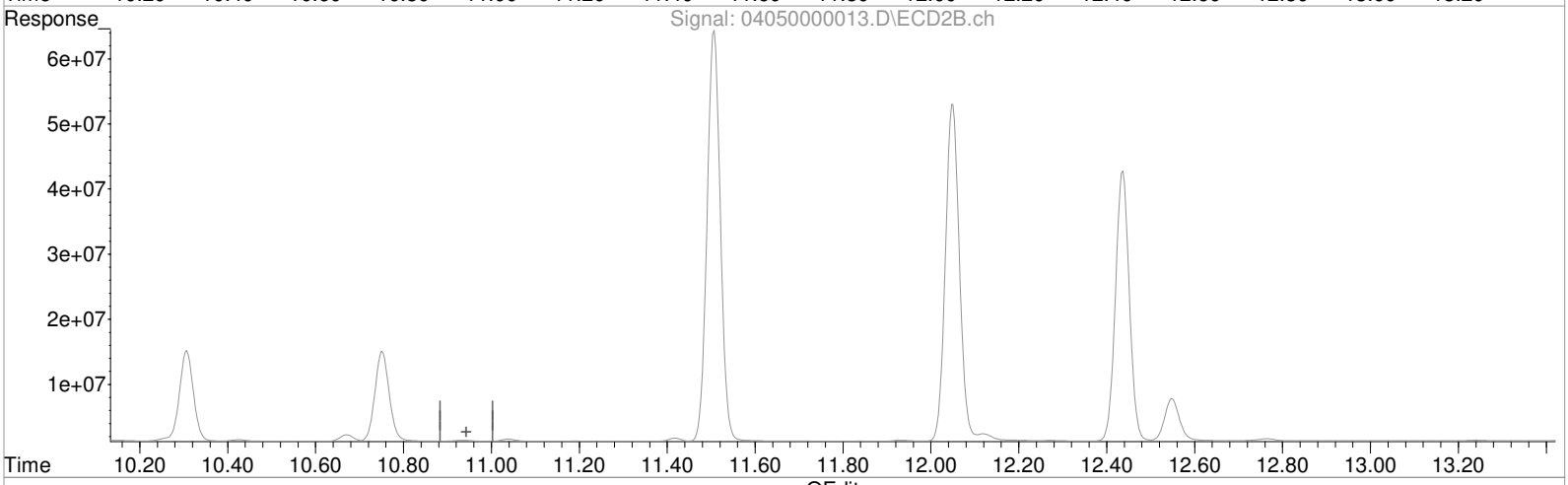
1st JTC 04/06/21
2nd 4W 04/06/21

Data File : J:\GC34\DATA\040521\04050000013.D Vial: 94
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05-Apr-2021, 15:37:23 Operator: JTC
Sample : PENTA02-26K 100PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Apr 06 08:36:37 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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

(7) 2,4-D (m)

12.273min 82.659 ppb

response 97061702

(7) 2,4-D #2 (m)

0.000min 0.000 ppb d

response 0

Manual Integration:

After

2,4-D not appearing in Col #2

04/06/21

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st JTC 04/06/21
2nd 4w 04/06/21

Data File : J:\GC34\DATA\040521\04050000015.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05-Apr-2021, 16:25:09 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 06 08:39:32 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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...	11.043	0.000	510407	0	0.498	N.D.	#
		Target Compounds							
1)	m	Dalapon	0.000	4.883f	0	44607	N.D.	0.089	#
3)	m	Dicamba	0.000	0.000	0	0	N.D.	N.D.	
4)	m	MCPP	11.327	0.000	313805	0	N.D.	N.D.	
5)	m	MCPA	0.000	10.260f	0	729014	N.D.	181.887	#
6)	m	Dichloroprop	0.000	10.763	0	71921	N.D.	0.183	#
7)	m	2,4-D	0.000	10.927	0	136374	N.D.	0.174	#
8)	m	2,4,5-TP ...	13.283f	0.000	196954	0	0.041	N.D.	#
9)	m	2,4,5-T	0.000	0.000	0	0	N.D.	N.D.	
10)	m	2,4-DB	14.273f	0.000	118435	0	0.173	N.D.	#
11)	m	Dinoseb	0.000	12.470f	0	26300	N.D.	0.026	#

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

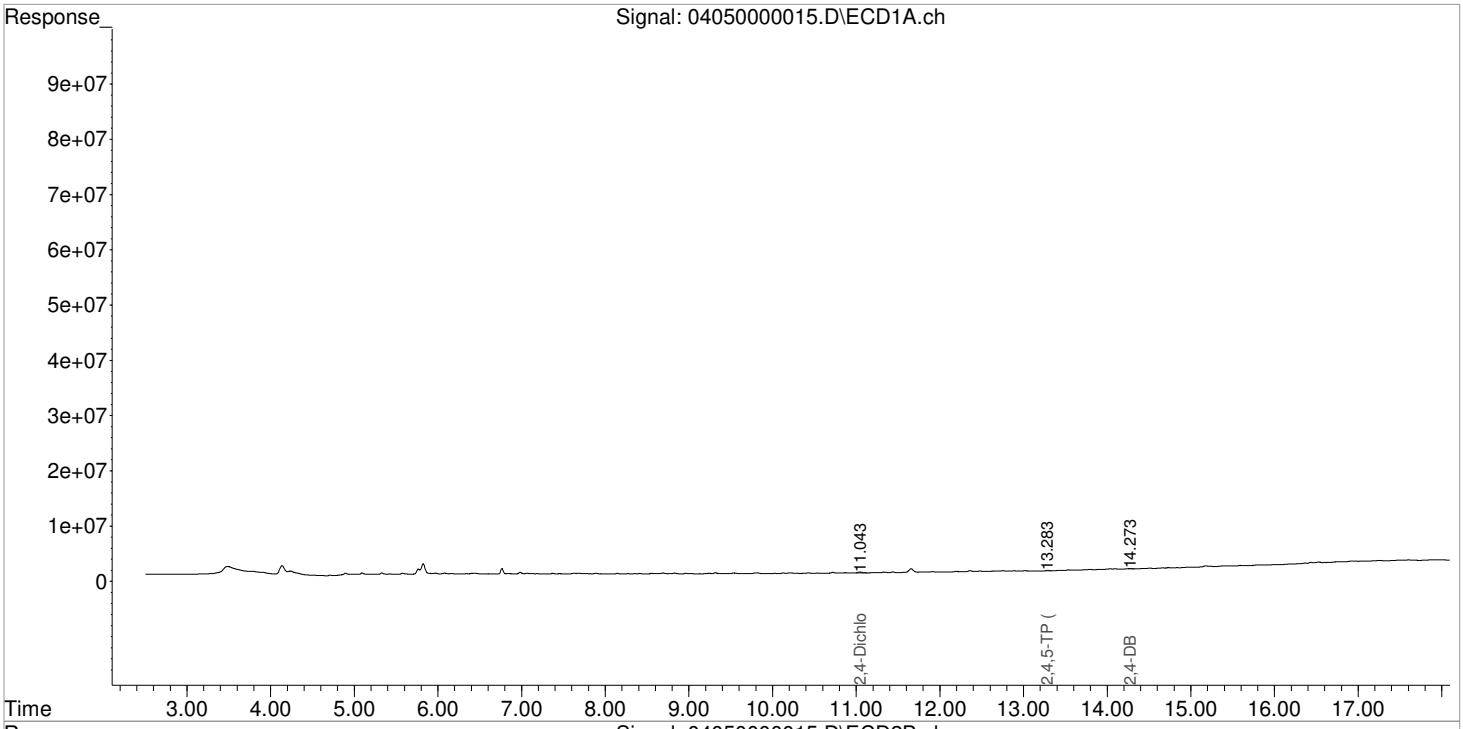
Quantitation Report (QT Reviewed)

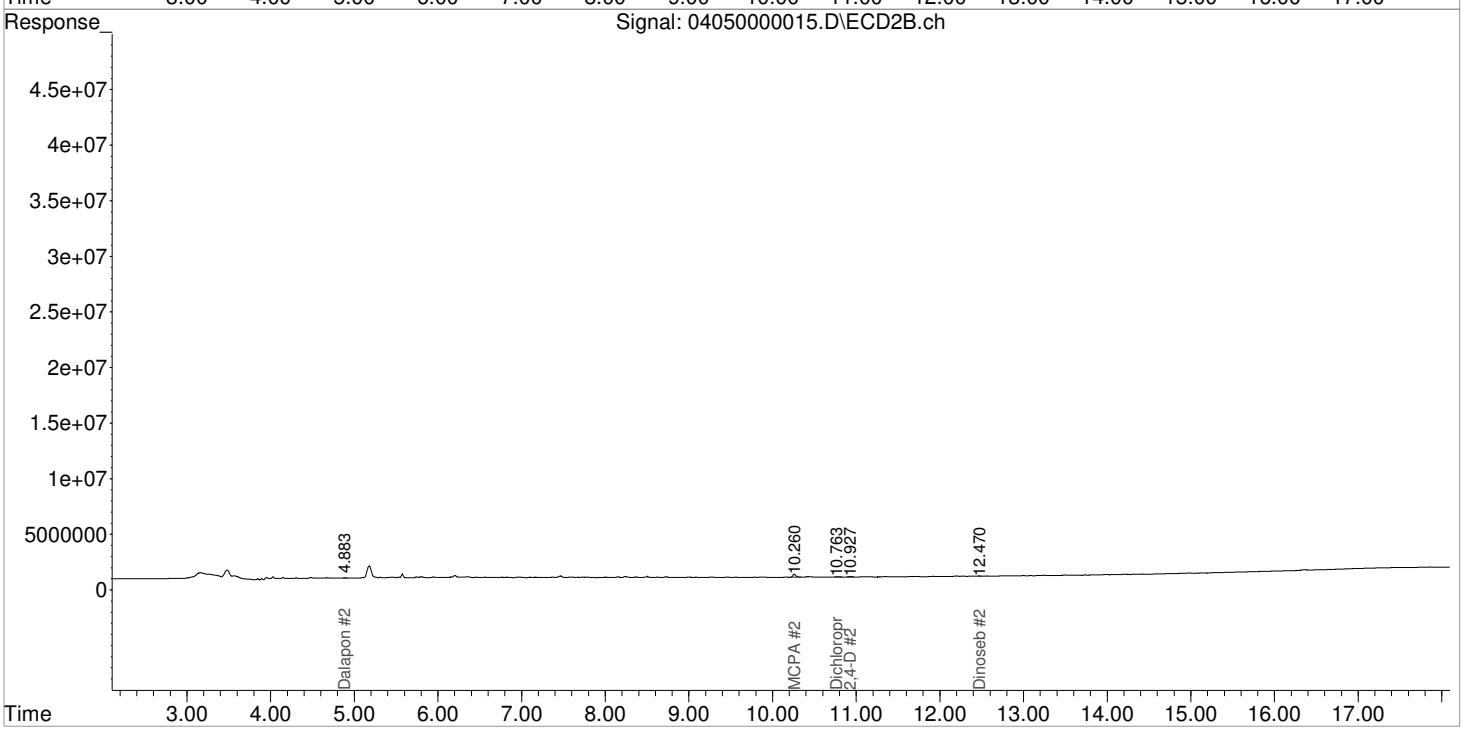
1st JTC 04/06/21
2nd 4w 04/06/21

Data File : J:\GC34\DATA\040521\04050000015.D Vial: 2
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05-Apr-2021, 16:25:09 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 06 08:39:32 2021
Quant Results File: 040521_8151.RES

Quant Method : J:\GC34\METHODS\040521_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Tue Apr 06 08:36:24 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





Run # 719860
Calibration ID: FC2100209

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Location	SampleName DataFile LimsID	Method	Inj	SampleType	InjVolume
1	Vial 100	HB PRIMER	8151A-17	1	Sample	
2	Vial 100	HB PRIMER	8151A-17	1	Sample	
3	Vial 1	PENTA02-26J 100 PPB CCV	8151A-17	1	Sample	
4	Vial 2	IB	8151A-17	1	Sample	
5	Vial 3	KQ2105302-03 MB	8151A-17	1	Sample	
6	Vial 4	KQ2105302-01 LCS	8151A-17	1	Sample	
7	Vial 5	KQ2105302-02 DLCS	8151A-17	1	Sample	
8	Vial 6	K2103235-001	8151A-17	1	Sample	
9	Vial 7	K2103235-002	8151A-17	1	Sample	
10	Vial 8	K2103256-001	8151A-17	1	Sample	
11	Vial 1	PENTA02-26J 100 PPB CCV	8151A-17	1	Sample	
12	Vial 2	IB	8151A-17	1	Sample	
13	Vial 9	KQ2105655-04 MB	8151A-17	1	Sample	
14	Vial 10	KQ2105655-03 LCS	8151A-17	1	Sample	
15	Vial 11	K2103566-003 MS	8151A-17	1	Sample	
16	Vial 12	K2103566-003 DMS	8151A-17	1	Sample	
17	Vial 13	K2103566-001	8151A-17	1	Sample	
18	Vial 14	K2103566-002	8151A-17	1	Sample	
19	Vial 15	K2103566-003	8151A-17	1	Sample	
20	Vial 16	K2103566-004	8151A-17	1	Sample	
21	Vial 17	K2103566-005	8151A-17	1	Sample	
22	Vial 1	PENTA02-26J 100 PPB CCV	8151A-17	1	Sample	
23	Vial 2	IB	8151A-17	1	Sample	

Sequence: C:\GC34\SEQUENCE\041421-HB.S

Run# 719851
Calibration ID: KC2100209

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Location	SampleName DataFile LimsID	Method	Inj	SampleType	InjVolume
1	Vial 100	HB PRIMER	8151A-17	1	Sample	
2	Vial 100	HB PRIMER	8151A-17	1	Sample	
3	Vial 1	PENTA02-26J 100 PPB CCV	8151A-17	1	Sample	
4	Vial 2	IB	8151A-17	1	Sample	
5	Vial 3	KQ2105891-03 MB	8151A-17	1	Sample	
6	Vial 4	KQ2105891-01 LCS	8151A-17	1	Sample	
7	Vial 5	KQ2105891-02 DLCS	8151A-17	1	Sample	
8	Vial 6	K2103235-001RE	8151A-17	1	Sample	
9	Vial 7	K2103235-002RE	8151A-17	1	Sample	
10	Vial 8	K2103256-001RE	8151A-17	1	Sample	
11	Vial 1	PENTA02-26J 100 PPB CCV	8151A-17	1	Sample	
12	Vial 2	IB	8151A-17	1	Sample	

Sequence Table (Back Injector):

No entries - empty table!

Sequence: C:\GC34\SEQUENCE\040821-HB.S

Run# 719207
Calibration ID: KC2100194

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	PENTA-26J 100PPB CCV	8151A-17	1	Sample	
4	Vial 2	IB	8151A-17	1	Sample	
5	Vial 3	KQ2105521-03 MB	8151A-17	1	Sample	
6	Vial 4	KQ2105521-01 LCS	8151A-17	1	Sample	
7	Vial 5	KQ2105521-02 DLCS	8151A-17	1	Sample	
8	Vial 6	K2103092-002RE	8151A-17	1	Sample	
9	Vial 7	K2103092-004RE	8151A-17	1	Sample	
10	Vial 8	K2103092-005RE	8151A-17	1	Sample	
11	Vial 9	K2103092-006RE	8151A-17	1	Sample	
12	Vial 10	K2103092-007RE	8151A-17	1	Sample	
13	Vial 1	PENTA-26J 100PPB CCV	8151A-17	1	Sample	
14	Vial 2	IB	8151A-17	1	Sample	
15	Vial 11	KQ2105302-03 MB	8151A-17	1	Sample	
16	Vial 12	KQ2105302-~~02~~ 01 LCS	8151A-17	1	Sample	
17	Vial 13	KQ2105302-~~01~~ 02 DLCS	8151A-17	1	Sample	
18	Vial 14	K2103235-001	8151A-17	1	Sample	
19	Vial 15	K2103235-002	8151A-17	1	Sample	
20	Vial 16	K2103256-001	8151A-17	1	Sample	
21	Vial 1	PENTA-26J 100PPB CCV	8151A-17	1	Sample	
22	Vial 2	IB	8151A-17	1	Sample	
23	Vial 17	KQ2105127-04 MB	8151A-17	1	Sample	
24	Vial 18	KQ2105127-03 LCS	8151A-17	1	Sample	
25	Vial 19	K2103235-004 MS	8151A-17	1	Sample	

)EE 4.8.21 JTC

C 34 4/8/2021 3:42:12 PM JTC

Sequence: C:\GC34\SEQUENCE\040821-HB.S

Line	Location	SampleName DataFile LimsID	Method	Inj	SampleType	InjVolume
26	Vial 20	K2103235-004 DMS	8151A-17	1	Sample	
27	Vial 21	K2103235-003	8151A-17	1	Sample	
28	Vial 22	K2103235-004	8151A-17	1	Sample	
29	Vial 23	K2103239-001	8151A-17	1	Sample	
30	Vial 24	K2103239-002	8151A-17	1	Sample	
31	Vial 25	K2103239-003	8151A-17	1	Sample	
32	Vial 26	K2103239-004	8151A-17	1	Sample	
33	Vial 27	K2103239-005	8151A-17	1	Sample	
34	Vial 28	K2103239-006	8151A-17	1	Sample	
35	Vial 1	PENTA-26J 100PPB CCV	8151A-17	1	Sample	
36	Vial 2	IB	8151A-17	1	Sample	

Sequence Table (Back Injector):

No entries - empty table!