



ALS Environmental
ALS Group USA, Corp
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Kelso, WA 98626
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www.alsglobal.com

May 30, 2021

Analytical Report for Service Request No: K2104776

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

RE: GascoSiltronic: US Moorings

Dear Delaney,

Enclosed are the results of the sample(s) submitted to our laboratory May 03, 2021
For your reference, these analyses have been assigned our service request number **K2104776**.

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

for 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.pjllabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdwlabservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
Kelso Laboratory Website	www.alsglobal.com	NA

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

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



Case Narrative

ALS Environmental—Kelso Laboratory
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Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

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

Service Request: K2104776
Date Received: 05/03/2021

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:

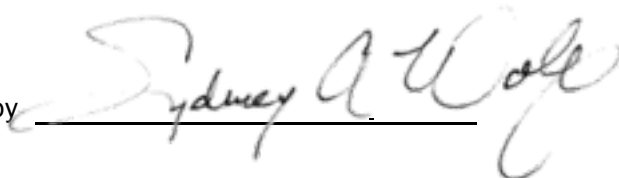
Sixteen sediment samples were received for analysis at ALS Environmental on 05/03/2021. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivoa GC:

Method 8151A, 05/28/2021: The analysis of all samples associated with ALS Service Request K2104776 were initially performed on 5/21/2021. All surrogates and matrix spike recoveries were outside of ALS acceptance limits. Efforts were made to re-extract and reanalyze the samples as soon as possible. However, the reanalysis of the samples was performed 12 days past the recommended holding time. The results from the reanalysis were reported. The data was flagged to indicate the holding time violation.

Method 8151A, 05/28/2021: The upper control criterion was exceeded for 2,4,5-TP (Silvex) in Continuing Calibration Verification (CCV) KQ2109702-01, KQ2109702-03, and KQ2109702-05. The field samples analyzed in this sequence did not contain the analyte in question. Since the apparent problem indicated a potential high bias, the data quality was not affected. No further corrective action was required.

Approved by



Date

05/30/2021



Chain of Custody

ALS Environmental—Kelso Laboratory
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ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

K2104776

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

COC ID: ALS-20210430-130346
Sample Custodian: SN
Lab: ALS Environmental, Kelso, WA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	USMPDI-024SC-B-00-02-210430	N	SE	04/30/2021	10:25	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
002	USMPDI-024SC-B-02-05-210430	N	SE	04/30/2021	10:25	2	<input checked="" type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
003	USMPDI-024SC-B-05-07-210430	N	SE	04/30/2021	10:25	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
004	USMPDI-024SC-B-07-9.7-210430	N	SE	04/30/2021	10:25	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
005	USMPDI-1024SC-B-05-07-210430	FD	SE	04/30/2021		1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
006	USMPDI-029SC-B-00-02-210430	N	SE	04/30/2021	14:15	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
007	USMPDI-029SC-B-02-05-210430	N	SE	04/30/2021	14:15	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C

Comment:

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>
Print Name: C. BEARDS	Print Name: [Signature]	Print Name:	Print Name:	Print Name:	Print Name:
Company: AO	Company: [Signature]	Company:	Company:	Company:	Company:
Date/Time: 5/3/21 0830	Date/Time: 5/3/21 1330	Date/Time:	Date/Time:	Date/Time:	Date/Time:

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

K2104776

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

COC ID: ALS-20210430-130346
Sample Custodian: SN
Lab: ALS Environmental, Kelso, WA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
008	USMPDI-029SC-B-05-07-210430	N	SE	04/30/2021	14:15	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
009	USMPDI-029SC-B-07-10-210430	N	SE	04/30/2021	14:15	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
010	USMPDI-029SC-B-10-12-210430	N	SE	04/30/2021	14:15	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
011	USMPDI-051SC-B-00-02-210430	N	SE	04/30/2021	8:15	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
012	USMPDI-051SC-B-02-04-210430	N	SE	04/30/2021	8:15	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
013	USMPDI-051SC-B-04-06-210430	N	SE	04/30/2021	8:15	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
014	USMPDI-051SC-B-06-08-210430	N	SE	04/30/2021	8:15	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Print Name: CORERG	Print Name: MORROW	Print Name:	Print Name:	Print Name:	Print Name:
Company: AQ	Company: ALS	Company:	Company:	Company:	Company:
Date/Time: 5/3/21 0830	Date/Time: 5/3/21 1330	Date/Time:	Date/Time:	Date/Time:	Date/Time:

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

K2104776

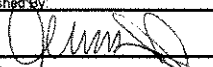
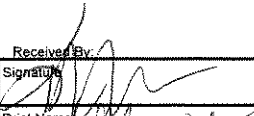
POC: # Delaney Peterson (360-715-2707)
 1605 Cornwall Avenue, Bellingham, WA 98225

Project: GascoSiltronic: US Moorings
Client: NW Natural

COC ID: ALS-20210430-130346
Sample Custodian: SN
Lab: ALS Environmental, Kelso, WA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected		Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
				Date	Time						
015	USMPDI-051SC-B-08-10-210430	N	SE	04/30/2021	8:15	1	<input type="checkbox"/>				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
016	USMPDI-051SC-B-10-10.8-210430	N	SE	04/30/2021	8:15	1	<input type="checkbox"/>				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature 	Signature 	Signature	Signature	Signature	Signature
Print Name C. O'NEIL	Print Name [unclear]	Print Name	Print Name	Print Name	Print Name
Company AQ	Company ALS	Company	Company	Company	Company
Date/Time 5/3/21 0830	Date/Time 5/3/21 1330	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

Cooler Receipt and Preservation Form

Client Anchor Service Request K21 04776
 Received: 5/3/21 Opened: 5/3/21 By: Km Unloaded: 5/3/21 By: K

- Samples were received via? USPS Cooler Fed Ex UPS DHL PDX Courier Hand Delivered
 - Samples were received in: (circle) Cooler Box Envelope Other NA
 - Were custody seals on coolers? NA Y N If yes, how many and where? 1 Front
 If present, were custody seals intact? Y N If present, were they signed and dated? Y N
 - Was a Temperature Blank present in cooler? NA Y N If yes, 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":
 - 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
4.7		IR01	ALS-20210430-13046				

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

Sample ID on Bottle	Sample ID on COC	Identified by:

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

Notes, Discrepancies, Resolutions: _____



Total Solids

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2104776
Date Collected: 04/30/21
Date Received: 05/3/21
Units: Percent
Basis: As Received

Solids, Total

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Q
USMPDI-024SC-B-00-02-210430	K2104776-001	51.3	-	-	1	05/06/21 19:10	
USMPDI-024SC-B-02-05-210430	K2104776-002	53.9	-	-	1	05/06/21 19:10	
USMPDI-024SC-B-05-07-210430	K2104776-003	54.3	-	-	1	05/06/21 19:10	
USMPDI-024SC-B-07-9.7-210430	K2104776-004	57.9	-	-	1	05/06/21 19:10	
USMPDI-1024SC-B-05-07-210430	K2104776-005	54.2	-	-	1	05/06/21 19:10	
USMPDI-029SC-B-00-02-210430	K2104776-006	49.9	-	-	1	05/06/21 19:10	
USMPDI-029SC-B-02-05-210430	K2104776-007	54.5	-	-	1	05/06/21 19:10	
USMPDI-029SC-B-05-07-210430	K2104776-008	54.6	-	-	1	05/06/21 19:10	
USMPDI-029SC-B-07-10-210430	K2104776-009	56.9	-	-	1	05/06/21 19:10	
USMPDI-029SC-B-10-12-210430	K2104776-010	58.0	-	-	1	05/06/21 19:10	
USMPDI-051SC-B-00-02-210430	K2104776-011	44.1	-	-	1	05/06/21 19:10	
USMPDI-051SC-B-02-04-210430	K2104776-012	51.7	-	-	1	05/06/21 19:10	
USMPDI-051SC-B-04-06-210430	K2104776-013	60.9	-	-	1	05/06/21 19:10	
USMPDI-051SC-B-06-08-210430	K2104776-014	54.1	-	-	1	05/06/21 19:10	
USMPDI-051SC-B-08-10-210430	K2104776-015	43.3	-	-	1	05/06/21 19:10	
USMPDI-051SC-B-10-10.8-210430	K2104776-016	75.8	-	-	1	05/06/21 19:10	
Method Blank	K2104776-MB	ND U	-	-	1	05/06/21 19:10	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: K2104776
Date Collected: 04/30/21
Date Received: 05/03/21

Units: Percent
Basis: As Received

Replicate Sample Summary
Solids, Total

Sample Name:	Lab Code:	MRL	MDL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
USMPDI-024SC-B-02-05-210430	K2104776-002DUP	-	-	53.9	54.4	54.2	<1	20	05/06/21
USMPDI-029SC-B-10-12-210430	K2104776-010DUP	-	-	58.0	58.1	58.1	<1	20	05/06/21

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

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

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



Chlorinated Herbicides by GC

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2104776
Date Collected: 04/30/21 10:25
Date Received: 05/03/21 13:30

Sample Name: USMPDI-024SC-B-00-02-210430
Lab Code: K2104776-001

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	95	4.6	1	05/28/21 18:11	5/26/21	*
2,4-D	ND U	95	15	1	05/28/21 18:11	5/26/21	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	75	26 - 127	05/28/21 18:11	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2104776
Date Collected: 04/30/21 10:25
Date Received: 05/03/21 13:30

Sample Name: USMPDI-024SC-B-02-05-210430
Lab Code: K2104776-002

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	92	4.4	1	05/28/21 18:35	5/26/21	*
2,4-D	ND U	92	15	1	05/28/21 18:35	5/26/21	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	78	26 - 127	05/28/21 18:35	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2104776
Date Collected: 04/30/21 10:25
Date Received: 05/03/21 13:30

Sample Name: USMPDI-024SC-B-05-07-210430
Lab Code: K2104776-003

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	92	4.5	1	05/28/21 19:46	5/26/21	*
2,4-D	ND U	92	15	1	05/28/21 19:46	5/26/21	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	80	26 - 127	05/28/21 19:46	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2104776
Date Collected: 04/30/21 10:25
Date Received: 05/03/21 13:30

Sample Name: USMPDI-024SC-B-07-9.7-210430
Lab Code: K2104776-004

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	84	4.1	1	05/28/21 20:10	5/26/21	*
2,4-D	ND U	84	13	1	05/28/21 20:10	5/26/21	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	83	26 - 127	05/28/21 20:10	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2104776
Date Collected: 04/30/21
Date Received: 05/03/21 13:30

Sample Name: USMPDI-1024SC-B-05-07-210430
Lab Code: K2104776-005

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	91	4.4	1	05/28/21 20:34	5/26/21	*
2,4-D	ND U	91	15	1	05/28/21 20:34	5/26/21	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	72	26 - 127	05/28/21 20:34	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2104776
Date Collected: 04/30/21 14:15
Date Received: 05/03/21 13:30

Sample Name: USMPDI-029SC-B-00-02-210430
Lab Code: K2104776-006

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	98	4.8	1	05/28/21 20:58	5/26/21	*
2,4-D	ND U	98	16	1	05/28/21 20:58	5/26/21	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	78	26 - 127	05/28/21 20:58	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2104776
Date Collected: 04/30/21 14:15
Date Received: 05/03/21 13:30

Sample Name: USMPDI-029SC-B-02-05-210430
Lab Code: K2104776-007

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	92	4.4	1	05/28/21 21:22	5/26/21	*
2,4-D	ND U	92	15	1	05/28/21 21:22	5/26/21	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	76	26 - 127	05/28/21 21:22	

ALS Group USA, Corp.
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Analytical Report

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

Service Request: K2104776
Date Collected: 04/30/21 14:15
Date Received: 05/03/21 13:30

Sample Name: USMPDI-029SC-B-05-07-210430
Lab Code: K2104776-008

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	90	4.4	1	05/28/21 21:45	5/26/21	*
2,4-D	ND U	90	14	1	05/28/21 21:45	5/26/21	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	74	26 - 127	05/28/21 21:45	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2104776
Date Collected: 04/30/21 14:15
Date Received: 05/03/21 13:30

Sample Name: USMPDI-029SC-B-07-10-210430
Lab Code: K2104776-009

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	87	4.2	1	05/28/21 22:57	5/26/21	*
2,4-D	ND U	87	14	1	05/28/21 22:57	5/26/21	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	66	26 - 127	05/28/21 22:57	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2104776
Date Collected: 04/30/21 14:15
Date Received: 05/03/21 13:30

Sample Name: USMPDI-029SC-B-10-12-210430
Lab Code: K2104776-010

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	85	4.1	1	05/28/21 23:21	5/26/21	*
2,4-D	ND U	85	14	1	05/28/21 23:21	5/26/21	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	82	26 - 127	05/28/21 23:21	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2104776
Date Collected: 04/30/21 08:15
Date Received: 05/03/21 13:30

Sample Name: USMPDI-051SC-B-00-02-210430
Lab Code: K2104776-011

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	110	5.3	1	05/28/21 23:45	5/26/21	*
2,4-D	ND U	110	17	1	05/28/21 23:45	5/26/21	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	76	26 - 127	05/28/21 23:45	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2104776
Date Collected: 04/30/21 08:15
Date Received: 05/03/21 13:30

Sample Name: USMPDI-051SC-B-02-04-210430
Lab Code: K2104776-012

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	97	4.7	1	05/29/21 00:08	5/26/21	*
2,4-D	ND U	97	15	1	05/29/21 00:08	5/26/21	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	75	26 - 127	05/29/21 00:08	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2104776
Date Collected: 04/30/21 08:15
Date Received: 05/03/21 13:30

Sample Name: USMPDI-051SC-B-04-06-210430
Lab Code: K2104776-013

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	82	4.0	1	05/29/21 00:32	5/26/21	*
2,4-D	ND U	82	13	1	05/29/21 00:32	5/26/21	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	76	26 - 127	05/29/21 00:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2104776
Date Collected: 04/30/21 08:15
Date Received: 05/03/21 13:30

Sample Name: USMPDI-051SC-B-06-08-210430
Lab Code: K2104776-014

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	90	4.4	1	05/29/21 00:56	5/26/21	*
2,4-D	ND U	90	14	1	05/29/21 00:56	5/26/21	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	71	26 - 127	05/29/21 00:56	

ALS Group USA, Corp.
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Analytical Report

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

Service Request: K2104776
Date Collected: 04/30/21 08:15
Date Received: 05/03/21 13:30

Sample Name: USMPDI-051SC-B-08-10-210430
Lab Code: K2104776-015

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND Ui	110	47	1	05/29/21 01:20	5/26/21	*
2,4-D	ND U	110	18	1	05/29/21 01:20	5/26/21	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	81	26 - 127	05/29/21 01:20	

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Analytical Report

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

Service Request: K2104776
Date Collected: 04/30/21 08:15
Date Received: 05/03/21 13:30

Sample Name: USMPDI-051SC-B-10-10.8-210430
Lab Code: K2104776-016

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	540	27	1	05/29/21 01:44	5/26/21	*
2,4-D	ND U	540	84	1	05/29/21 01:44	5/26/21	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	91	26 - 127	05/29/21 01:44	

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Analytical Report

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

Service Request: K2104776
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: KQ2109374-04

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	49	2.4	1	05/28/21 17:47	5/26/21	
2,4-D	ND U	49	7.7	1	05/28/21 17:47	5/26/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	55	26 - 127	05/28/21 17:47	

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Confirmation Results

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
SRM Matrix: Sediment
Sample Name: USMPDI-024SC-B-02-05-210430
Lab Code: KQ2109374-01

Service Request: K2104776
Date Collected: 04/30/21 10:25
Date Received: 5/3/21

Units: ug/Kg
Basis: Dry
Percent Solids: 53.9

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	4.4	261	295	12		1	05/28/21 18:58
2,4-D	14	246	272	10		1	05/28/21 18:58

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Confirmation Results

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
SRM Matrix: Sediment
Sample Name: USMPDI-024SC-B-02-05-210430
Lab Code: KQ2109374-02

Service Request: K2104776
Date Collected: 04/30/21 10:25
Date Received: 5/3/21

Units: ug/Kg
Basis: Dry
Percent Solids: 53.9

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	4.4	231	261	12		1	05/28/21 19:22
2,4-D	15	215	241	11		1	05/28/21 19:22

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Confirmation Results

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
SRM Matrix: Sediment
Sample Name: Lab Control Sample
Lab Code: KQ2109374-03

Service Request: K2104776
Date Collected: NA
Date Received:

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-TP	2.4	111	128	14		1	05/28/21 17:23
2,4-D	7.7	102	121	17		1	05/28/21 17:23

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

Service Request: K2104776

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A
Extraction Method: Method

Sample Name	Lab Code	DCAA 26-127
USMPDI-024SC-B-00-02-210430	K2104776-001	75
USMPDI-024SC-B-02-05-210430	K2104776-002	78
USMPDI-024SC-B-05-07-210430	K2104776-003	80
USMPDI-024SC-B-07-9.7-210430	K2104776-004	83
USMPDI-1024SC-B-05-07-210430	K2104776-005	72
USMPDI-029SC-B-00-02-210430	K2104776-006	78
USMPDI-029SC-B-02-05-210430	K2104776-007	76
USMPDI-029SC-B-05-07-210430	K2104776-008	74
USMPDI-029SC-B-07-10-210430	K2104776-009	66
USMPDI-029SC-B-10-12-210430	K2104776-010	82
USMPDI-051SC-B-00-02-210430	K2104776-011	76
USMPDI-051SC-B-02-04-210430	K2104776-012	75
USMPDI-051SC-B-04-06-210430	K2104776-013	76
USMPDI-051SC-B-06-08-210430	K2104776-014	71
USMPDI-051SC-B-08-10-210430	K2104776-015	81
USMPDI-051SC-B-10-10.8-210430	K2104776-016	91
Method Blank	KQ2109374-04	55
Lab Control Sample	KQ2109374-03	68
USMPDI-024SC-B-02-05-210430	KQ2109374-01	77
USMPDI-024SC-B-02-05-210430	KQ2109374-02	69

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QA/QC Report

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

Service Request: K2104776
Date Collected: 04/30/21
Date Received: 05/03/21
Date Analyzed: 05/28/21
Date Extracted: 05/26/21

Duplicate Matrix Spike Summary
Chlorinated Herbicides by GC

Sample Name: USMPDI-024SC-B-02-05-210430
Lab Code: K2104776-002
Analysis Method: 8151A
Prep Method: Method

Units: ug/Kg
Basis: Dry

Analyte Name	Sample Result	Result	Matrix Spike KQ2109374-01		Result	Duplicate Matrix Spike KQ2109374-02		% Rec Limits	RPD	RPD Limit
			Spike Amount	% Rec		Spike Amount	% Rec			
2,4,5-TP	ND U	261	300	87	231	304	76	34-129	12	40
2,4-D	ND U	246	300	82	215	304	71	35-129	13	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.

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QA/QC Report

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

Service Request: K2104776
Date Analyzed: 05/28/21
Date Extracted: 05/26/21

Lab Control Sample Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Units: ug/Kg
Basis: Dry
Analysis Lot: 725573

Lab Control Sample
KQ2109374-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
2,4,5-TP	111	167	66	46-125
2,4-D	102	167	61	46-120

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QA/QC Report

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

Service Request: K2104776
Date Analyzed: 05/28/21 17:47
Date Extracted: 05/26/21

Method Blank Summary
Chlorinated Herbicides by GC

Sample Name: Method Blank
Lab Code: KQ2109374-04
Analysis Method: 8151A
Prep Method: Method

Instrument ID: K-GC-34
File ID: J:\GC34\DATA\052821-HB\0528000006.D\
Analysis Lot: 725573
Extraction Lot: 380155

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	KQ2109374-03	J:\GC34\DATA\052821-HB\0528000005.D\	05/28/21 17:23
USMPDI-024SC-B-00-02-210430	K2104776-001	J:\GC34\DATA\052821-HB\0528000007.D\	05/28/21 18:11
USMPDI-024SC-B-02-05-210430	K2104776-002	J:\GC34\DATA\052821-HB\0528000008.D\	05/28/21 18:35
USMPDI-024SC-B-02-05-210430MS	KQ2109374-01	J:\GC34\DATA\052821-HB\0528000009.D\	05/28/21 18:58
USMPDI-024SC-B-02-05-210430DMS	KQ2109374-02	J:\GC34\DATA\052821-HB\0528000010.D\	05/28/21 19:22
USMPDI-024SC-B-05-07-210430	K2104776-003	J:\GC34\DATA\052821-HB\0528000011.D\	05/28/21 19:46
USMPDI-024SC-B-07-9.7-210430	K2104776-004	J:\GC34\DATA\052821-HB\0528000012.D\	05/28/21 20:10
USMPDI-1024SC-B-05-07-210430	K2104776-005	J:\GC34\DATA\052821-HB\0528000013.D\	05/28/21 20:34
USMPDI-029SC-B-00-02-210430	K2104776-006	J:\GC34\DATA\052821-HB\0528000014.D\	05/28/21 20:58
USMPDI-029SC-B-02-05-210430	K2104776-007	J:\GC34\DATA\052821-HB\0528000015.D\	05/28/21 21:22
USMPDI-029SC-B-05-07-210430	K2104776-008	J:\GC34\DATA\052821-HB\0528000016.D\	05/28/21 21:45
USMPDI-029SC-B-07-10-210430	K2104776-009	J:\GC34\DATA\052821-HB\0528000019.D\	05/28/21 22:57
USMPDI-029SC-B-10-12-210430	K2104776-010	J:\GC34\DATA\052821-HB\0528000020.D\	05/28/21 23:21
USMPDI-051SC-B-00-02-210430	K2104776-011	J:\GC34\DATA\052821-HB\0528000021.D\	05/28/21 23:45
USMPDI-051SC-B-02-04-210430	K2104776-012	J:\GC34\DATA\052821-HB\0528000022.D\	05/29/21 00:08
USMPDI-051SC-B-04-06-210430	K2104776-013	J:\GC34\DATA\052821-HB\0528000023.D\	05/29/21 00:32
USMPDI-051SC-B-06-08-210430	K2104776-014	J:\GC34\DATA\052821-HB\0528000024.D\	05/29/21 00:56
USMPDI-051SC-B-08-10-210430	K2104776-015	J:\GC34\DATA\052821-HB\0528000025.D\	05/29/21 01:20
USMPDI-051SC-B-10-10.8-210430	K2104776-016	J:\GC34\DATA\052821-HB\0528000026.D\	05/29/21 01:44

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QA/QC Report

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

Service Request: K2104776
Date Analyzed: 05/28/21 17:23
Date Extracted: 05/26/21

Lab Control Sample Summary
Chlorinated Herbicides by GC

Sample Name: Lab Control Sample **Instrument ID:**K-GC-34
Lab Code: KQ2109374-03 **File ID:**J:\GC34\DATA\052821-HB\05280000005.D\
Analysis Method: 8151A **Analysis Lot:**725573
Prep Method: Method **Extraction Lot:**380155

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ2109374-04	J:\GC34\DATA\052821-HB\05280000006.D\	05/28/21 17:47
USMPDI-024SC-B-00-02-210430	K2104776-001	J:\GC34\DATA\052821-HB\05280000007.D\	05/28/21 18:11
USMPDI-024SC-B-02-05-210430	K2104776-002	J:\GC34\DATA\052821-HB\05280000008.D\	05/28/21 18:35
USMPDI-024SC-B-02-05-210430MS	KQ2109374-01	J:\GC34\DATA\052821-HB\05280000009.D\	05/28/21 18:58
USMPDI-024SC-B-02-05-210430DMS	KQ2109374-02	J:\GC34\DATA\052821-HB\05280000010.D\	05/28/21 19:22
USMPDI-024SC-B-05-07-210430	K2104776-003	J:\GC34\DATA\052821-HB\05280000011.D\	05/28/21 19:46
USMPDI-024SC-B-07-9.7-210430	K2104776-004	J:\GC34\DATA\052821-HB\05280000012.D\	05/28/21 20:10
USMPDI-1024SC-B-05-07-210430	K2104776-005	J:\GC34\DATA\052821-HB\05280000013.D\	05/28/21 20:34
USMPDI-029SC-B-00-02-210430	K2104776-006	J:\GC34\DATA\052821-HB\05280000014.D\	05/28/21 20:58
USMPDI-029SC-B-02-05-210430	K2104776-007	J:\GC34\DATA\052821-HB\05280000015.D\	05/28/21 21:22
USMPDI-029SC-B-05-07-210430	K2104776-008	J:\GC34\DATA\052821-HB\05280000016.D\	05/28/21 21:45
USMPDI-029SC-B-07-10-210430	K2104776-009	J:\GC34\DATA\052821-HB\05280000019.D\	05/28/21 22:57
USMPDI-029SC-B-10-12-210430	K2104776-010	J:\GC34\DATA\052821-HB\05280000020.D\	05/28/21 23:21
USMPDI-051SC-B-00-02-210430	K2104776-011	J:\GC34\DATA\052821-HB\05280000021.D\	05/28/21 23:45
USMPDI-051SC-B-02-04-210430	K2104776-012	J:\GC34\DATA\052821-HB\05280000022.D\	05/29/21 00:08
USMPDI-051SC-B-04-06-210430	K2104776-013	J:\GC34\DATA\052821-HB\05280000023.D\	05/29/21 00:32
USMPDI-051SC-B-06-08-210430	K2104776-014	J:\GC34\DATA\052821-HB\05280000024.D\	05/29/21 00:56
USMPDI-051SC-B-08-10-210430	K2104776-015	J:\GC34\DATA\052821-HB\05280000025.D\	05/29/21 01:20
USMPDI-051SC-B-10-10.8-210430	K2104776-016	J:\GC34\DATA\052821-HB\05280000026.D\	05/29/21 01:44

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QA/QC Report

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

Service Request: K2104776
Calibration Date: 5/6/2021

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100249
Instrument ID: K-GC-34

Signal ID: Rtx-CLPesticides

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC2100249-01	PENTA02-29H 10 PPB	J:\GC34\DATA\050621-HB\05060000004.D	05/06/2021 11:32
02	KC2100249-02	PENTA02-29I 25 PPB	J:\GC34\DATA\050621-HB\05060000005.D	05/06/2021 11:56
03	KC2100249-03	PENTA02-29J 75 PPB	J:\GC34\DATA\050621-HB\05060000006.D	05/06/2021 12:20
04	KC2100249-04	PENTA02-29K 100 PPB	J:\GC34\DATA\050621-HB\05060000007.D	05/06/2021 12:44
05	KC2100249-05	PENTA02-29L 125 PPB	J:\GC34\DATA\050621-HB\05060000008.D	05/06/2021 13:08
06	KC2100249-06	PENTA02-29M 150 PPB	J:\GC34\DATA\050621-HB\05060000009.D	05/06/2021 13:32
07	KC2100249-07	PENTA02-29N 175 PPB	J:\GC34\DATA\050621-HB\05060000010.D	05/06/2021 13:56
08	KC2100249-08	PENTA02-30A 200 PPB	J:\GC34\DATA\050621-HB\05060000011.D	05/06/2021 14:20

Analyte

2,4,5-TP

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.510	2.363E6	02	23.760	2.794E6	03	71.300	2.815E6	04	95.100	2.929E6
05	118.820	3.014E6	06	142.580	3.087E6	07	166.340	3.144E6	08	190.100	3.157E6

2,4-D

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	5.912E5	02	23.510	6.277E5	03	70.500	6.449E5	04	94.000	6.492E5
05	117.540	6.913E5	06	141.050	7.05E5	07	164.560	7.101E5	08	188.060	7.262E5

DCAA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.020	8.144E5	02	22.550	8.433E5	03	67.600	7.658E5	04	90.200	7.799E5
05	112.730	7.876E5	06	135.280	7.924E5	07	157.830	8.021E5	08	180.370	8.004E5

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

Service Request: K2104776
Calibration Date: 5/6/2021

**Initial Calibration Summary
Chlorinated Herbicides by GC**

Calibration ID: KC2100249
Instrument ID: K-GC-34

Signal ID: Rtx-CLPesticides

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
2,4,5-TP	TRG	Average RF	% RSD	9.0	20	2.913E6	
2,4-D	TRG	Average RF	% RSD	7.0	20	6.682E5	
DCAA	SURR	Average RF	% RSD	2.9	20	7.982E5	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: K2104776
Calibration Date: 5/6/2021

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100249
Instrument ID: K-GC-34

Signal ID: Rtx-CLPesticides2

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC2100249-01	PENTA02-29H 10 PPB	J:\GC34\DATA\050621-HB\05060000004.D	05/06/2021 11:32
02	KC2100249-02	PENTA02-29I 25 PPB	J:\GC34\DATA\050621-HB\05060000005.D	05/06/2021 11:56
03	KC2100249-03	PENTA02-29J 75 PPB	J:\GC34\DATA\050621-HB\05060000006.D	05/06/2021 12:20
04	KC2100249-04	PENTA02-29K 100 PPB	J:\GC34\DATA\050621-HB\05060000007.D	05/06/2021 12:44
05	KC2100249-05	PENTA02-29L 125 PPB	J:\GC34\DATA\050621-HB\05060000008.D	05/06/2021 13:08
06	KC2100249-06	PENTA02-29M 150 PPB	J:\GC34\DATA\050621-HB\05060000009.D	05/06/2021 13:32
07	KC2100249-07	PENTA02-29N 175 PPB	J:\GC34\DATA\050621-HB\05060000010.D	05/06/2021 13:56
08	KC2100249-08	PENTA02-30A 200 PPB	J:\GC34\DATA\050621-HB\05060000011.D	05/06/2021 14:20

Analyte

2,4,5-TP

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.510	1.507E6	02	23.760	1.674E6	03	71.300	1.617E6	04	95.100	1.668E6
05	118.820	1.709E6	06	142.580	1.753E6	07	166.340	1.769E6	08	190.100	1.773E6

2,4-D

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	3.928E5	02	23.510	4.144E5	03	70.500	3.834E5	04	94.000	3.936E5
05	117.540	4.022E5	06	141.050	4.137E5	07	164.560	4.186E5	08	188.060	4.194E5

DCAA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.020	5.111E5	02	22.550	4.995E5	03	67.600	4.319E5	04	90.200	4.346E5
05	112.730	4.37E5	06	135.280	4.388E5	07	157.830	4.383E5	08	180.370	4.381E5

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

Service Request: K2104776
Calibration Date: 5/6/2021

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100249
Instrument ID: K-GC-34

Signal ID: Rtx-CLPesticides2

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
2,4,5-TP	TRG	Average RF	% RSD	5.3	20	1.684E6	
2,4-D	TRG	Average RF	% RSD	3.4	20	4.048E5	
DCAA	SURR	Average RF	% RSD	7.1	20	4.537E5	

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

Service Request: K2104776
Calibration Date: 5/6/2021

Initial Calibration Verification Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100249
Instrument ID: K-GC-34

Signal ID: Rtx-CLPesticides

#	Lab Code	Sample Name	File Location	Acquisition Date
09	KC2100249-09	PENTA02-29G 100 PPB ICV	J:\GC34\DATA\050621-HB\05060000012.D	05/06/2021 14:43

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
2,4,5-TP	95.1	87.3	2.913E6	2.674E6	-8.197	±20	Average RF
2,4-D	94.0	79.4	6.682E5	5.647E5	-15.491	±20	Average RF

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

Service Request: K2104776
Calibration Date: 5/6/2021

Initial Calibration Verification Summary
Chlorinated Herbicides by GC

Calibration ID: KC2100249
Instrument ID: K-GC-34

Signal ID: Rtx-CLPesticides2

#	Lab Code	Sample Name	File Location	Acquisition Date
09	KC2100249-09	PENTA02-29G 100 PPB ICV	J:\GC34\DATA\050621-HB\05060000012.D	05/06/2021 14:43

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
2,4,5-TP	95.1	86.0	1.684E6	1.523E6	-9.564	±20	Average RF
2,4-D	94.0	83.6	4.048E5	3.598E5	-11.100	±20	Average RF

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QA/QC Report

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

Service Request: K2104776
Date Analyzed: 05/28/21 16:34

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\GC34\DATA\052821-HB\05280000003.D\
Signal ID: Rtx-CLPesticides2

Calibration Date: 5/6/2021
Calibration ID: KC2100249
Analysis Lot: 725573
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	101	1.684E6	1.79E6	6.3	NA	±20	Average RF
2,4-D	94.0	89.5	4.048E5	3.855E5	-4.8	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	88.0	4.537E5	3.993E5	-12.0	NA	±20	Average RF

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

Service Request: K2104776
Date Analyzed: 05/28/21 16:34

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

Analysis Method: 8151A
File ID: J:\GC34\DATA\052821-HB\05280000003.D\
Signal ID: Rtx-CLPesticides

Calibration Date: 5/6/2021
Calibration ID: KC2100249
Analysis Lot: 725573
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	115	2.913E6	3.532E6	21.2*	NA	±20	Average RF
2,4-D	94.0	98.9	6.682E5	7.03E5	5.2	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	105	7.982E5	8.415E5	5.4	NA	±20	Average RF

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

Service Request: K2104776
Date Analyzed: 05/28/21 22:09

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

Analysis Method: 8151A
File ID: J:\GC34\DATA\052821-HB\05280000017.D\
Signal ID: Rtx-CLPesticides2

Calibration Date: 5/6/2021
Calibration ID: KC2100249
Analysis Lot: 725573
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	104	1.684E6	1.84E6	9.3	NA	±20	Average RF
2,4-D	94.0	93.2	4.048E5	4.014E5	-0.8	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	89.6	4.537E5	4.067E5	-10.4	NA	±20	Average RF

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

Service Request: K2104776
Date Analyzed: 05/28/21 22:09

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

Analysis Method: 8151A
File ID: J:\GC34\DATA\052821-HB\05280000017.D\
Signal ID: Rtx-CLPesticides

Calibration Date: 5/6/2021
Calibration ID: KC2100249
Analysis Lot: 725573
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	120	2.913E6	3.661E6	25.7*	NA	±20	Average RF
2,4-D	94.0	109	6.682E5	7.716E5	15.5	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	104	7.982E5	8.278E5	3.7	NA	±20	Average RF

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QA/QC Report

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

Service Request: K2104776
Date Analyzed: 05/29/21 02:08

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\GC34\DATA\052821-HB\05280000027.D\
Signal ID: Rtx-CLPesticides2

Calibration Date: 5/6/2021
Calibration ID: KC2100249
Analysis Lot: 725573
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	104	1.684E6	1.846E6	9.6	NA	±20	Average RF
2,4-D	94.0	91.5	4.048E5	3.939E5	-2.7	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	88.6	4.537E5	4.02E5	-11.4	NA	±20	Average RF

ALS Group USA, Corp.
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QA/QC Report

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

Service Request: K2104776
Date Analyzed: 05/29/21 02:08

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\GC34\DATA\052821-HB\05280000027.D\
Signal ID: Rtx-CLPesticides

Calibration Date: 5/6/2021
Calibration ID: KC2100249
Analysis Lot: 725573
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	121	2.913E6	3.697E6	26.9*	NA	±20	Average RF
2,4-D	94.0	108	6.682E5	7.658E5	14.6	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	104	7.982E5	8.339E5	4.5	NA	±20	Average RF

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QA/QC Report

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

Service Request:K2104776

Analysis Run Log
Chlorinated Herbicides by GC

Analysis Method: 8151A

Analysis Lot:725573
Instrument ID:K-GC-34

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\GC34\DATA\052821-HB\05280000003.D\	Continuing Calibration Verification	KQ2109702-01	5/28/2021	16:34:51	
J:\GC34\DATA\052821-HB\05280000004.D\	Continuing Calibration Blank	KQ2109702-02	5/28/2021	16:59:05	
J:\GC34\DATA\052821-HB\05280000005.D\	Lab Control Sample	KQ2109374-03	5/28/2021	17:23:10	
J:\GC34\DATA\052821-HB\05280000006.D\	Method Blank	KQ2109374-04	5/28/2021	17:47:08	
J:\GC34\DATA\052821-HB\05280000007.D\	USMPDI-024SC-B-00-02-210430	K2104776-001	5/28/2021	18:11:14	
J:\GC34\DATA\052821-HB\05280000008.D\	USMPDI-024SC-B-02-05-210430	K2104776-002	5/28/2021	18:35:02	
J:\GC34\DATA\052821-HB\05280000009.D\	USMPDI-024SC-B-02-05-210430 MS	KQ2109374-01	5/28/2021	18:58:53	
J:\GC34\DATA\052821-HB\05280000010.D\	USMPDI-024SC-B-02-05-210430 DMS	KQ2109374-02	5/28/2021	19:22:39	
J:\GC34\DATA\052821-HB\05280000011.D\	USMPDI-024SC-B-05-07-210430	K2104776-003	5/28/2021	19:46:30	
J:\GC34\DATA\052821-HB\05280000012.D\	USMPDI-024SC-B-07-9.7-210430	K2104776-004	5/28/2021	20:10:22	
J:\GC34\DATA\052821-HB\05280000013.D\	USMPDI-1024SC-B-05-07-210430	K2104776-005	5/28/2021	20:34:18	
J:\GC34\DATA\052821-HB\05280000014.D\	USMPDI-029SC-B-00-02-210430	K2104776-006	5/28/2021	20:58:15	
J:\GC34\DATA\052821-HB\05280000015.D\	USMPDI-029SC-B-02-05-210430	K2104776-007	5/28/2021	21:22:05	
J:\GC34\DATA\052821-HB\05280000016.D\	USMPDI-029SC-B-05-07-210430	K2104776-008	5/28/2021	21:45:54	
J:\GC34\DATA\052821-HB\05280000017.D\	Continuing Calibration Verification	KQ2109702-03	5/28/2021	22:09:42	
J:\GC34\DATA\052821-HB\05280000018.D\	Continuing Calibration Blank	KQ2109702-04	5/28/2021	22:33:36	
J:\GC34\DATA\052821-HB\05280000019.D\	USMPDI-029SC-B-07-10-210430	K2104776-009	5/28/2021	22:57:27	
J:\GC34\DATA\052821-HB\05280000020.D\	USMPDI-029SC-B-10-12-210430	K2104776-010	5/28/2021	23:21:15	
J:\GC34\DATA\052821-HB\05280000021.D\	USMPDI-051SC-B-00-02-210430	K2104776-011	5/28/2021	23:45:03	
J:\GC34\DATA\052821-HB\05280000022.D\	USMPDI-051SC-B-02-04-210430	K2104776-012	5/29/2021	00:08:51	
J:\GC34\DATA\052821-HB\05280000023.D\	USMPDI-051SC-B-04-06-210430	K2104776-013	5/29/2021	00:32:45	
J:\GC34\DATA\052821-HB\05280000024.D\	USMPDI-051SC-B-06-08-210430	K2104776-014	5/29/2021	00:56:33	
J:\GC34\DATA\052821-HB\05280000025.D\	USMPDI-051SC-B-08-10-210430	K2104776-015	5/29/2021	01:20:19	
J:\GC34\DATA\052821-HB\05280000026.D\	USMPDI-051SC-B-10-10.8-210430	K2104776-016	5/29/2021	01:44:13	
J:\GC34\DATA\052821-HB\05280000027.D\	Continuing Calibration Verification	KQ2109702-05	5/29/2021	02:08:02	
J:\GC34\DATA\052821-HB\05280000028.D\	Continuing Calibration Blank	KQ2109702-06	5/29/2021	02:31:51	

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Prep Summary Report

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

Service Request: K2104776

Chlorinated Herbicides by GC

Prep Method: Method
Analytical Method: 8151A

Extraction Lot: 380155
Extraction Date: 05/26/21 16:10

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
USMPDI-024SC-B-00-02-210430	K2104776-001	4/30/21	5/3/21	30.7540 g	50 mL	51.3
USMPDI-024SC-B-02-05-210430	K2104776-002	4/30/21	5/3/21	30.3840 g	50 mL	53.9
USMPDI-024SC-B-05-07-210430	K2104776-003	4/30/21	5/3/21	30.1120 g	50 mL	54.3
USMPDI-024SC-B-07-9.7-210430	K2104776-004	4/30/21	5/3/21	30.9130 g	50 mL	57.9
USMPDI-1024SC-B-05-07-210430	K2104776-005	4/30/21	5/3/21	30.2780 g	50 mL	54.2
USMPDI-029SC-B-00-02-210430	K2104776-006	4/30/21	5/3/21	30.5680 g	50 mL	49.9
USMPDI-029SC-B-02-05-210430	K2104776-007	4/30/21	5/3/21	30.0410 g	50 mL	54.5
USMPDI-029SC-B-05-07-210430	K2104776-008	4/30/21	5/3/21	30.6670 g	50 mL	54.6
USMPDI-029SC-B-07-10-210430	K2104776-009	4/30/21	5/3/21	30.1650 g	50 mL	56.9
USMPDI-029SC-B-10-12-210430	K2104776-010	4/30/21	5/3/21	30.2810 g	50 mL	58.0
USMPDI-051SC-B-00-02-210430	K2104776-011	4/30/21	5/3/21	30.8450 g	50 mL	44.1
USMPDI-051SC-B-02-04-210430	K2104776-012	4/30/21	5/3/21	30.0480 g	50 mL	51.7
USMPDI-051SC-B-04-06-210430	K2104776-013	4/30/21	5/3/21	30.0340 g	50 mL	60.9
USMPDI-051SC-B-06-08-210430	K2104776-014	4/30/21	5/3/21	30.7330 g	50 mL	54.1
USMPDI-051SC-B-08-10-210430	K2104776-015	4/30/21	5/3/21	30.4740 g	50 mL	43.3
USMPDI-051SC-B-10-10.8-210430	K2104776-016	4/30/21	5/3/21	3.6470 g	50 mL	75.8
Matrix Spike	KQ2109374-01MS	4/30/21	5/3/21	30.9220 g	50 mL	53.9
Duplicate Matrix Spike	KQ2109374-02DMS	4/30/21	5/3/21	30.5080 g	50 mL	53.9
Lab Control Sample	KQ2109374-03LCS	NA	NA	30.00 g	50 mL	
Method Blank	KQ2109374-04MB	NA	NA	30.9220 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:

722458

Method/Testcode: SM 2540 G/T5

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC? Tier
K2104735-018	Solids, Total	N/A		Sediment	55.40 Percent	25.1864	55.4 Percent	1					5/5/21 11:35:00	N IV
K2104735-019	Solids, Total	N/A		Sediment	54.70 Percent	28.2810	54.7 Percent	1					5/5/21 11:35:00	N IV
K2104735-020	Solids, Total	N/A		Sediment	55.70 Percent	28.9031	55.7 Percent	1					5/5/21 11:35:00	N IV
K2104735-021	Solids, Total	N/A		Sediment	56.30 Percent	29.5252	56.3 Percent	1					5/5/21 11:35:00	N IV
K2104735-022	Solids, Total	N/A		Sediment	60.20 Percent	31.3608	60.2 Percent	1					5/5/21 11:35:00	N IV
K2104735-023	Solids, Total	N/A		Sediment	54.90 Percent	25.9869	54.9 Percent	1					5/5/21 11:35:00	N IV
K2104778-001	Solids, Total	N/A		Sediment	53.00 Percent	39.5359	53.0 Percent	1					5/5/21 11:35:00	N IV
K2104778-002	Solids, Total	N/A		Sediment	59.20 Percent	47.4879	59.2 Percent	1					5/5/21 11:35:00	N IV
K2104778-003	Solids, Total	N/A		Sediment	59.00 Percent	30.6598	59.0 Percent	1					5/5/21 11:35:00	Y IV
K2104778-004	Solids, Total	N/A		Sediment	57.20 Percent	28.0332	57.2 Percent	1					5/5/21 11:35:00	N IV
K2104778-005	Solids, Total	N/A		Sediment	59.10 Percent	26.8303	59.1 Percent	1					5/5/21 11:35:00	N IV
K2104778-006	Solids, Total	N/A		Sediment	59.40 Percent	31.1898	59.4 Percent	1					5/5/21 11:35:00	N IV
K2104778-007	Solids, Total	N/A		Sediment	66.40 Percent	28.0316	66.4 Percent	1					5/5/21 11:35:00	N IV
K2104778-008	Solids, Total	N/A		Sediment	67.80 Percent	30.6573	67.8 Percent	1					5/5/21 11:35:00	N IV
K2104778-009	Solids, Total	N/A		Sediment	69.60 Percent	31.7921	69.6 Percent	1					5/5/21 11:35:00	N IV
K2104778-010	Solids, Total	N/A		Sediment	67.60 Percent	29.5544	67.6 Percent	1					5/5/21 11:35:00	N IV
K2104778-011	Solids, Total	N/A		Sediment	47.50 Percent	29.2868	47.5 Percent	1					5/5/21 11:35:00	N IV
K2104778-012	Solids, Total	N/A		Sediment	55.40 Percent	27.7608	55.4 Percent	1					5/5/21 11:35:00	N IV
K2104778-013	Solids, Total	N/A		Sediment	54.70 Percent	27.8438	54.7 Percent	1					5/5/21 11:35:00	N IV
K2104778-014	Solids, Total	N/A		Sediment	57.60 Percent	26.9717	57.6 Percent	1					5/5/21 11:35:00	N IV
KQ2107587-01	Solids, Total	DUP	K2104735-019	Sediment	53.40 Percent	25.8554	53.4 Percent	1				2	5/5/21 11:35:00	N IV
KQ2107587-02	Solids, Total	DUP	K2104778-003	Sediment	57.60 Percent	37.6312	57.6 Percent	1				2	5/5/21 11:35:00	N IV
KQ2107587-03	Solids, Total	MB		Sediment	0.00 Percent	49.8137	0.0 Percent	1					5/5/21 11:35:00	N IV

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 #: K2104735, 4778


Method: SM 2540 G

Run: 722458

Analysis: Total Solids / Volatile Solids

Matrix: Soil/Solids

Oven Temp and Times				
Oven Temp	Time In	Date In	Time Out	Date Out
105	11:35	5/5/2021	8:20	5/6/2021
105	10:25	5/6/2021	11:35	5/6/2021
/	/	/	/	/
/	/	/	/	/
/	/	/	/	/
/	/	/	/	/
/	/	/	/	/
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/	/	/	/	/
/	/	/	/	/
/	/	/	/	/
/	/	/	/	/
/	/	/	/	/

Analyzed By:	BN	Date Analyzed:	5/5/2021
Reviewed By:		Date Reviewed:	5/7/21

**ALS Group USA, Corp.
dba ALS Environmental**

Work Order #: K2104735, 4778 Method: SM 2540 G
Run: 722458
Analysis: Total Solids / Volatile Solids Matrix: Soil/Solids

CCV Verification SN:1000122198, 6040						
	200.0000g	$\leq(+/- 0.5\%)$		10.0000g	$\leq(+/- 0.5\%)$	Date
CCV1	199.9973	100.0%	CCV1	9.9980	100.0%	5/5/2021
CCV2	199.9973	100.0%	CCV2	9.9986	100.0%	5/5/2021
CCV3	199.9972	100.0%	CCV3	9.9981	100.0%	5/6/2021
CCV4	199.9976	100.0%	CCV4	9.9985	100.0%	5/6/2021
CCV5	199.9980	100.0%	CCV5	9.9991	100.0%	5/6/2021
CCV6	199.9972	100.0%	CCV6	9.9983	100.0%	5/6/2021
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:	5/5/2021
Reviewed By:		Date Reviewed:	

Analytical Results Summary

Instrument Name: K-Balance-41

Analyst: BNETLING

Analysis Lot: 722548

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
K2104775-001	Solids, Total	N/A		Sediment	52.50 Percent	26.0585 g	52.5 Percent	1					5/6/21 19:10:00	N IV
K2104775-002	Solids, Total	N/A		Sediment	54.50 Percent	29.7534 g	54.5 Percent	1					5/6/21 19:10:00	N IV
K2104775-003	Solids, Total	N/A		Sediment	56.40 Percent	28.1338 g	56.4 Percent	1					5/6/21 19:10:00	N IV
K2104776-001	Solids, Total	N/A		Sediment	51.30 Percent	35.3716 g	51.3 Percent	1					5/6/21 19:10:00	N IV
K2104776-002	Solids, Total	N/A		Sediment	53.90 Percent	28.6401 g	53.9 Percent	1					5/6/21 19:10:00	Y IV
K2104776-003	Solids, Total	N/A		Sediment	54.30 Percent	29.4632 g	54.3 Percent	1					5/6/21 19:10:00	N IV
K2104776-004	Solids, Total	N/A		Sediment	57.90 Percent	25.4281 g	57.9 Percent	1					5/6/21 19:10:00	N IV
K2104776-005	Solids, Total	N/A		Sediment	54.20 Percent	28.7094 g	54.2 Percent	1					5/6/21 19:10:00	N IV
K2104776-006	Solids, Total	N/A		Sediment	49.90 Percent	26.4851 g	49.9 Percent	1					5/6/21 19:10:00	N IV
K2104776-007	Solids, Total	N/A		Sediment	54.50 Percent	29.0852 g	54.5 Percent	1					5/6/21 19:10:00	N IV
K2104776-008	Solids, Total	N/A		Sediment	54.60 Percent	27.4583 g	54.6 Percent	1					5/6/21 19:10:00	N IV
K2104776-009	Solids, Total	N/A		Sediment	56.90 Percent	25.3152 g	56.9 Percent	1					5/6/21 19:10:00	N IV
K2104776-010	Solids, Total	N/A		Sediment	58.00 Percent	28.3185 g	58.0 Percent	1					5/6/21 19:10:00	N IV
K2104776-011	Solids, Total	N/A		Sediment	44.10 Percent	28.1995 g	44.1 Percent	1					5/6/21 19:10:00	N IV
K2104776-012	Solids, Total	N/A		Sediment	51.70 Percent	29.4775 g	51.7 Percent	1					5/6/21 19:10:00	N IV
K2104776-013	Solids, Total	N/A		Sediment	60.90 Percent	27.4536 g	60.9 Percent	1					5/6/21 19:10:00	N IV
K2104776-014	Solids, Total	N/A		Sediment	54.10 Percent	28.4856 g	54.1 Percent	1					5/6/21 19:10:00	N IV
K2104776-015	Solids, Total	N/A		Sediment	43.30 Percent	24.3366 g	43.3 Percent	1					5/6/21 19:10:00	N IV
K2104776-016	Solids, Total	N/A		Sediment	75.80 Percent	17.6050 g	75.8 Percent	1					5/6/21 19:10:00	N IV
K2104778-015	Solids, Total	N/A		Sediment	60.70 Percent	31.4089 g	60.7 Percent	1					5/6/21 19:10:00	N IV
KQ2107900-01	Solids, Total	MB		Sediment	0.00 Percent	51.7351 g	0.0 Percent	1					5/6/21 19:10:00	N IV
KQ2107900-02	Solids, Total	DUP	K2104776-002	Sediment	54.40 Percent	27.3934 g	54.4 Percent	1				<1	5/6/21 19:10:00	N IV
KQ2107900-03	Solids, Total	DUP	K2104776-010	Sediment	58.10 Percent	28.8542 g	58.1 Percent	1				<1	5/6/21 19:10:00	N IV

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 #: K2104778, 4776, 4775

Method: SM 2540 G TS

Run: 722548

Analysis: Total Solids / Volatile Solids

Matrix: Soil/Solids

Sample Number		MB	4778-015	4776-001	4776-002	4776-002D	4776-003
Crucible Number		20	19	FIRN	JOSH	JASPER	11
SampleWeight		51.7351	31.4089	35.3716	28.6401	27.3934	29.4632
Tare Weight	Date	49.9770	49.8415	49.4153	48.6316	47.7654	51.5159
Tare + Dry Wt. (1)	5/7/2021	49.9749	68.9114	67.5443	64.0687	62.6689	67.5080
Tare + Dry Wt. (2)	5/7/2021	49.9760	68.9147	67.5473	64.0718	62.6770	67.5135
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		0.0%	60.7%	51.3%	53.9%	54.4%	54.3%
Volatile Solids		-4997600.0%	361.3%	372.5%	415.0%	420.3%	422.0%

Sample Number		4776-004	4776-005	4776-006	4776-007	4776-008	4776-009
Crucible Number		21	GWEN	25	27	3D	LEXA
Sample Weight		25.4281	28.7094	26.4851	29.0852	27.4583	25.3152
Tare Weight	Date	53.8889	52.0865	51.3817	51.4143	57.0996	50.4950
Tare + Dry Wt. (1)	5/7/2021	68.6116	67.6324	64.5835	67.2458	72.0871	64.8812
Tare + Dry Wt. (2)	5/7/2021	68.6233	67.6439	64.5953	67.2553	72.0890	64.8910
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		57.9%	54.2%	49.9%	54.5%	54.6%	56.9%
Volatile Solids		465.7%	434.8%	488.9%	424.6%	480.9%	450.8%

% 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:	5/6/2021
Reviewed By:		Date:	5/10/21

ALS Group USA, Corp. dba ALS Environmental

Work Order #: K2104778, 4776, 4775 Method: SM 2540 G TS

Run: 722548

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

Sample Number		4776-010	4776-010D	4776-011	4776-012	4776-013	4776-014
Crucible Number		M14	CLARKE	BILLIE	18	MEOOW	SNOW
Sample Weight		28.3185	28.8542	28.1995	29.4775	27.4536	28.4856
Tare Weight	Date	76.0460	53.2578	56.3852	50.6275	54.8414	53.1127
Tare + Dry Wt. (1)	5/7/2021	92.4701	70.0203	68.8005	65.3805	71.5632	68.5128
Tare + Dry Wt. (2)	5/7/2021	92.4807	70.0258	68.8102	65.8620	71.5683	68.5176
Tare + Ash Wt. (1)		 	 	 	 	 	
Tare + Ash Wt. (2)		 	 	 	 	 	
Total Solids		58.0%	58.1%	44.1%	51.7%	60.9%	54.1%
Volatile Solids		562.7%	417.6%	553.8%	432.3%	427.9%	444.8%

Sample Number		4776-015	4776-016	4775-001	4775-002	4775-003	
Crucible Number		LINCOLN	KANE	SIERRA	23	7MM	
Sample Weight		24.3366	17.6050	26.0585	29.7534	28.1338	
Tare Weight	Date	52.2144	48.3000	51.5719	52.9445	60.9683	
Tare + Dry Wt. (1)	5/7/2021	62.7563	61.6409	65.2526	69.1472	76.8379	
Tare + Dry Wt. (2)	5/7/2021	62.7581	61.6415	65.2595	69.1517	76.8386	
Tare + Ash Wt. (1)		 	 	 	 	 	
Tare + Ash Wt. (2)		 	 	 	 	 	
Total Solids		43.3%	75.8%	52.5%	54.5%	56.4%	#DIV/0!
Volatile Solids		595.2%	462.0%	476.8%	426.7%	484.2%	#DIV/0!

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

Comments: K2104776-016 LIMITED VOLUME

105 oven: K - OVEN 07
 550 oven: K -Furnace-01
 K-Balance- 41

Analyzed By:	BN	Date:	5/6/2021
Reviewed By:	<i>[Signature]</i>	Date:	5/10/21

**ALS Group USA, Corp.
dba ALS Environmental**

Work Order #: K2104778, 4776, 4775 Method: SM 2540 G TS
 Run: 722548
 Analysis: Total Solids / Volatile Solids Matrix: Soil/Solids

CCV Verification SN:1000122198, 6040						
	200.0000g	≤(+/- 0.5%)		10.0000g	≤(+/- 0.5%)	Date
CCV1	199.9970	100.0%	CCV1	9.9980	100.0%	5/6/2021
CCV2	199.9968	100.0%	CCV2	9.9984	100.0%	5/6/2021
CCV3	199.9970	100.0%	CCV3	9.9980	100.0%	5/7/2021
CCV4	199.9960	100.0%	CCV4	9.9978	100.0%	5/7/2021
CCV5	199.9965	100.0%	CCV5	9.9982	100.0%	5/7/2021
CCV6	199.9966	100.0%	CCV6	9.9983	100.0%	5/7/2021
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:	5/6/2021
Reviewed By:	<i>JC</i>	Date Reviewed:	<i>5/10/21</i>



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#: 380155
 Team: Semivoa GC/GTRIGG
 Number of Copies to make: 1

Prep Workflow: OrgHerbs(14)
 Prep Method: Method

Status: Prepped
 Prep Date/Time: 5/25/21 14:28
 5-26-21 1610

#	Lab Code	Client ID	B#	Method / Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	K2104776-001RE	USMPDI-024SC-B-00-02-210430	.01	8151A/HERB		Sediment	30.7540g	50.00mL	
2	K2104776-002RE	USMPDI-024SC-B-02-05-210430	.01	8151A/HERB		Sediment	30.3840g	50.00mL	
3	K2104776-003RE	USMPDI-024SC-B-05-07-210430	.01	8151A/HERB		Sediment	30.1120g	50.00mL	
4	K2104776-004RE	USMPDI-024SC-B-07-09-210430	.01	8151A/HERB		Sediment	30.9130g	50.00mL	
5	K2104776-005RE	USMPDI-1024SC-B-05-07-210430	.01	8151A/HERB		Sediment	30.2780g	50.00mL	
6	K2104776-006RE	USMPDI-029SC-B-00-02-210430	.01	8151A/HERB		Sediment	30.5680g	50.00mL	
7	K2104776-007RE	USMPDI-029SC-B-02-05-210430	.01	8151A/HERB		Sediment	30.0410g	50.00mL	
8	K2104776-008RE	USMPDI-029SC-B-05-07-210430	.01	8151A/HERB		Sediment	30.6670g	50.00mL	
9	K2104776-009RE	USMPDI-029SC-B-07-10-210430	.01	8151A/HERB		Sediment	30.1650g	50.00mL	
10	K2104776-010RE	USMPDI-029SC-B-10-12-210430	.01	8151A/HERB		Sediment	30.2810g	50.00mL	
11	K2104776-011RE	USMPDI-051SC-B-00-02-210430	.01	8151A/HERB		Sediment	30.8450g	50.00mL	
12	K2104776-012RE	USMPDI-051SC-B-02-04-210430	.01	8151A/HERB		Sediment	30.0480g	50.00mL	
13	K2104776-013RE	USMPDI-051SC-B-04-06-210430	.01	8151A/HERB		Sediment	30.0340g	50.00mL	
14	K2104776-014RE	USMPDI-051SC-B-06-08-210430	.01	8151A/HERB		Sediment	30.7330g	50.00mL	
15	K2104776-015RE	USMPDI-051SC-B-08-10-210430	.01	8151A/HERB		Sediment	30.4740g	50.00mL	
16	K2104776-016RE	USMPDI-051SC-B-10-10-8-210430	.01	8151A/HERB		Sediment	3.6470g	50.00mL	
17	KQ2109374-01	K2104776-002 MS	.01	8151A/HERB		Solid	30.9220g	50.00mL	
18	KQ2109374-02	K2104776-002 DMS	.01	8151A/HERB		Solid	30.5080g	50.00mL	
19	KQ2109374-03	LCS		8151A/HERB		Solid	30.00g	50.00mL	
20	KQ2109374-04	MB		8151A/HERB		Solid	30.9220g	50.00mL	

Spiking Solutions

Name: 8151A 5ppm Herbicide surrogate	Inventory ID: 216337	Logbook Ref: Penta02-261	Expires On: 09/30/2021
K2104776-001 1,000.00µL	K2104776-002 1,000.00µL	K2104776-004 1,000.00µL	K2104776-005 1,000.00µL
K2104776-012 1,000.00µL	K2104776-013 1,000.00µL	K2104776-014 1,000.00µL	K2104776-016 1,000.00µL
KQ2109374-02 1,000.00µL	KQ2109374-03 1,000.00µL	KQ2109374-04 1,000.00µL	KQ2109374-01 1,000.00µL

Name: 8151A 5-500ppm Herbicides matrix spike	Inventory ID: 217175	Logbook Ref: PENTA02-301	Expires On: 11/13/2021
KQ2109374-01 1,000.00µL	KQ2109374-02 1,000.00µL	KQ2109374-03 1,000.00µL	

Name: 8151A 5ppm Herbicide surrogate	Inventory ID: 217176	Logbook Ref: PENTA02-301	Expires On: 11/13/2021
K2104776-007 1,000.00µL	K2104776-008 1,000.00µL	K2104776-009 1,000.00µL	K2104776-010 1,000.00µL
			K2104776-011 1,000.00µL

Preparation Information Benchsheet

Prep Run#: 380155
Team: Semivoa GC/GTRIGG

Prep WorkFlow: OrgHerbs(14)
Prep Method: Method

Status: Prepped
Prep Date/Time: 5/25/21 14:28


Preparation Steps

Step:	Weight	Step:	Extraction	Step:	Derivatization	Step:	Final Volume
Started:	5/25/21 14:28	Started:	5/27/21 15:30	Started:	5/28/21 10:15	Started:	5/28/21 13:20
Finished:	5/25/21 14:55	Finished:	5/27/21 17:00	Finished:	5/28/21 10:45	Finished:	5/28/21 13:20
By:	GTRIGG	By:	GTRIGG	By:	GTRIGG	By:	GTRIGG
Comments		Comments		Comments		Comments	

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____	Date: _____	Extracts Examined
Received By: 	Date: 5/28/21	Yes <input type="checkbox"/> No <input type="checkbox"/>

Preparation Information Benchsheet

Prep Run#: 380155
Team: Semivoa GC/GTRIGG
Number of Copies to make: 1

Prep Workflow: OrgHerbs(14)
Prep Method: Method

Status: Draft
Prep Date/Time: 5/25/21 02:28 PM

#	Lab Code	Client ID	B#	Method /Test	Matrix	Amt. Ext.	pH	Int. Vol	Final Vol	Surr Amt	Spike Amt
1	K2104776-001RE	USMPDI-024SC-B-00-02-210430	.01	8151A/HERB	Sediment	30.754	/	10	90	1000	---
2	K2104776-002RE	USMPDI-024SC-B-02-05-210430	.01	8151A/HERB	Sediment	30.384	/	10			---
3	K2104776-003RE	USMPDI-024SC-B-05-07-210430	.01	8151A/HERB	Sediment	30.112	/	10			---
4	K2104776-004RE	USMPDI-024SC-B-07-9-7-210430	.01	8151A/HERB	Sediment	30.913	/	10			---
5	K2104776-005RE	USMPDI-1024SC-B-05-07-210430	.01	8151A/HERB	Sediment	30.278	/	10			---
6	K2104776-006RE	USMPDI-029SC-B-00-02-210430	.01	8151A/HERB	Sediment	30.568	/	10			---
7	K2104776-007RE	USMPDI-029SC-B-02-05-210430	.01	8151A/HERB	Sediment	30.041	/	10			---
8	K2104776-008RE	USMPDI-029SC-B-05-07-210430	.01	8151A/HERB	Sediment	30.667	/	10			---
9	K2104776-009RE	USMPDI-029SC-B-07-10-210430	.01	8151A/HERB	Sediment	30.165	/	10			---
10	K2104776-010RE	USMPDI-029SC-B-10-12-210430	.01	8151A/HERB	Sediment	30.281	/	10			---
11	K2104776-011RE	USMPDI-051SC-B-00-02-210430	.01	8151A/HERB	Sediment	30.845	/	10			---
12	K2104776-012RE	USMPDI-051SC-B-02-04-210430	.01	8151A/HERB	Sediment	30.648	/	10			---
13	K2104776-013RE	USMPDI-051SC-B-04-06-210430	.01	8151A/HERB	Sediment	30.034	/	10			---
14	K2104776-014RE	USMPDI-051SC-B-06-08-210430	.01	8151A/HERB	Sediment	30.733	/	10			---
15	K2104776-015RE	USMPDI-051SC-B-08-10-210430	.01	8151A/HERB	Sediment	30.474	/	10			---
16	K2104776-016RE	USMPDI-051SC-B-10-10-8-210430	.01	8151A/HERB	Sediment	3.647	/	10			---
17	KQ2109374-01	K2104776-002 MS	.01	8151A/HERB	Solid	30.922	/	10			1000
18	KQ2109374-02	K2104776-002 DMS	.01	8151A/HERB	Solid	30.508	/	10			1000
19	KQ2109374-03	LCS		8151A/HERB	Solid	30.000	/	10			1000
20	KQ2109374-04	MB		8151A/HERB	Solid	30.922	/	10			---

Comments: samples 4776-7-11 got Different surf Pentan-2-50J

Surrogate ID: Pentan-2-26I Average 500µm 1000µm XP 9/30/21
Spike ID: Pentan-02-30I 5-500µm 1000µm XP 11-13-21

Witnessed By: Pentan-02-26I Average 500µm 1000µm XP 11/13/21
 30J
 05-26-21

Analyst: *Johanna*

Assisted By:

Preparation Information Benchsheet

Prep Run#: 380155
 Team: Semivova GC/GTRIGG
 Number of Copies to make: 1

Prep Workflow: OrgHerbS(14)
 Prep Method: Method

Status: Draft
 Prep Date/Time: 5/25/21 02:28 PM

#	Lab Code	Client ID	B#	Method / Test	Matrix	Amt. Ext.	pH	Int. Vol	Final Vol	Surr Amt	Spike Amt
1	K2104776-001RE	USMPDI-024SC-B-00-02-210430	.01	8151A / HERB	Sediment	10.364					
2	K2104776-002RE	USMPDI-024SC-B-02-05-210430	.01	8151A / HERB	Sediment	45.2781					
3	K2104776-003RE	USMPDI-024SC-B-05-07-210430	.01	8151A / HERB	Sediment	30.112					
4	K2104776-004RE	USMPDI-024SC-B-07-9-7-210430	.01	8151A / HERB	Sediment	30.913					
5	K2104776-005RE	USMPDI-1024SC-B-05-07-210430	.01	8151A / HERB	Sediment	30.278					
6	K2104776-006RE	USMPDI-029SC-B-00-02-210430	.01	8151A / HERB	Sediment	30.568					
7	K2104776-007RE	USMPDI-029SC-B-02-05-210430	.01	8151A / HERB	Sediment	30.041					
8	K2104776-008RE	USMPDI-029SC-B-05-07-210430	.01	8151A / HERB	Sediment	30.667					
9	K2104776-009RE	USMPDI-029SC-B-07-10-210430	.01	8151A / HERB	Sediment	30.165					
10	K2104776-010RE	USMPDI-029SC-B-10-12-210430	.01	8151A / HERB	Sediment	30.281					
11	K2104776-011RE	USMPDI-051SC-B-00-02-210430	.01	8151A / HERB	Sediment	30.845					
12	K2104776-012RE	USMPDI-051SC-B-02-04-210430	.01	8151A / HERB	Sediment	30.048					
13	K2104776-013RE	USMPDI-051SC-B-04-06-210430	.01	8151A / HERB	Sediment	30.034					
14	K2104776-014RE	USMPDI-051SC-B-06-08-210430	.01	8151A / HERB	Sediment	30.733					
15	K2104776-015RE	USMPDI-051SC-B-08-10-210430	.01	8151A / HERB	Sediment	30.474					
16	K2104776-016RE	USMPDI-051SC-B-10-10-8-210430	.01	8151A / HERB	Sediment	3.647					
17	KQ2109290-05	LCS		8151A / HERB	Solid	3					
18	KQ2109290-06	DLCS		8151A / HERB	Solid						
19	KQ2109290-04	MB		8151A / HERB	Solid						

4776-002 DMS: 30.912 g
 4776-002 DMS: 30.588 g

+ EG 12/5/21 30.754 g
 TEE 12/5/21 30.384 g

Comments:

Surrogate ID:

Spike ID:

Witnessed By:


Analyst:

Assisted By:

ALS Environmental Extraction Analyst Notes

Service Request: _____ Prep Group: _____

Topic	Notes	Initials/Date
No Anomalies: <input type="checkbox"/>		
Sample Anomalies: <input type="checkbox"/>		
Organics Present (sticks, leaves, bugs): <input type="checkbox"/>		
Fuel Odors: <input type="checkbox"/>		
Sulfur Odors, Precipitate: <input type="checkbox"/>		
General Notes:	MB GOT A Different Sulfate - Pentad 26I	



Additional Prep Information for EPA Method 8151A
Herbicides in Soil

Service Request # 4776 Work Group # 9374

Acidified Sulfate Lot # D203-87T Matrix Sand Lot # 201468

Ethyl Ether Lot # FA001-US Hydrochloric Acid Lot # 204209

Wrist Action Shaker Start (time/date/initial): 1610 5/26/21 GA

Wrist Action Shaker Stop (time/date/initial): 1710 5/26/21 GA

N-Evap (time/date/initial): 0930 5/28/21 GA N-Evap Thermometer ID: X-SM006

Temp as measured: 20 °C Correction factor: 00 °C Adjusted temp: 20 °C

Saponification Start (time/date/initial): 1300 5/27/21 GA 37% KOH Lot # D203-80W

Saponification Stop (time/date/initial): 1400 5/27/21 GA

Extraction Start (time/date/initial): 1530 5/27/21 GA Sulfuric Acid Lot # D203 77K

Extraction Stop (time/date/initial): 1700 5/27/21 GA

Derivatization Start (time/date/initial): 1015 5/28/21 GA Diazomethane Lot # D203 44N

Derivatization Stop (time/date/initial): 1045 5/28/21 GA

Pipette (5 mL) Lot # 08420647

Solvent Exchange to Iso-Octane (time/date/initial): 1100 5/28/21 GA

Iso-Octane Lot # D2155-US N-Evap Thermometer ID: X-SM004

Temp as measured: 20 °C Correction factor: 00 °C Adjusted temp: 20 °C

Pipette (1 mL) Lot # HH13 G

Vial: Red Vial Storage: Counter

Archive Storage: Rat Percy

Additional Comments: _____

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

QUALITY TRACKING FORM

Ext. Date: _____

DOD? : YES

WORK ORDER #: K2104776 EXTRACT LOCATION: _____

TEST: Herb DATE REQUESTED: 5-24-21

SAMPLE #: 1-16 DATE DESIRED: ASAP

MATRIX: soil REQUESTED BY: TP

QUALITY DEFICIENCY: (DOES PC NEED TO BE NOTIFIED? YES NO)

Notified on/ by: _____

NO sum or spikes

CORRECTIVE ACTION NEEDED:

re-extract

For Copper Clean-ups--Date Copper Cleaned: _____

ANALYST: _____

DATE COMPLETED: _____

REASON FOR QTF/OUTCOME: (copy to prep lab 'Work Order' box)

- | | |
|--|---|
| <input type="checkbox"/> Reext/Prep. Technique (A) | <input checked="" type="checkbox"/> HT Missed (Primary) (F) |
| <input type="checkbox"/> Reext/Matrix (B) | <input checked="" type="checkbox"/> HT Missed Upon Reext. (G) |
| <input type="checkbox"/> Reext/GPC Loss (C) | <input type="checkbox"/> Other (H) _____ |
| <input type="checkbox"/> Reext/ASE (D) | <input type="checkbox"/> NCAR Filed (I) |
| <input type="checkbox"/> Clean-up Needed (E) | <input type="checkbox"/> HT Missed (Received Past HT) (J) |
| | <input type="checkbox"/> HT Missed (Analytical) (K) |

Preparation Information Benchsheet

Prep Workflow: OrgHerbs(14)

Prep Method: Method

Prep Run#: 378806
 Team: Semiwoa GC/GTRIGG
 Number of Copies to make: 1

Status: Prepped

Prep Date/Time: 5/6/21 14:05

5.13.21 1150

#	Lab Code	Client ID	B#	Method / Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	K2104776-001	USMPDI-024SC-B-00-02-210430	.01	8151A/HERB		Sediment	30.6350g	50.00mL	
2	K2104776-002	USMPDI-024SC-B-02-05-210430	.01	8151A/HERB		Sediment	30.2880g	50.00mL	
3	KQ2107590-01	K2104776-002 MS	.01	8151A/HERB		Solid	30.3290g	50.00mL	
4	KQ2107590-02	K2104776-002 DMS	.01	8151A/HERB		Solid	30.8390g	50.00mL	
5	K2104776-003	USMPDI-024SC-B-05-07-210430	.01	8151A/HERB		Sediment	30.3900g	50.00mL	
6	K2104776-004	USMPDI-024SC-B-07-9-7-210430	.01	8151A/HERB		Sediment	30.2360g	50.00mL	
7	K2104776-005	USMPDI-1024SC-B-05-07-210430	.01	8151A/HERB		Sediment	30.8670g	50.00mL	
8	K2104776-006	USMPDI-029SC-B-00-02-210430	.01	8151A/HERB		Sediment	30.7400g	50.00mL	
9	K2104776-007	USMPDI-029SC-B-02-05-210430	.01	8151A/HERB		Sediment	30.8820g	50.00mL	
10	K2104776-008	USMPDI-029SC-B-05-07-210430	.01	8151A/HERB		Sediment	30.3890g	50.00mL	
11	K2104776-009	USMPDI-029SC-B-07-10-210430	.01	8151A/HERB		Sediment	30.3050g	50.00mL	
12	K2104776-010	USMPDI-029SC-B-10-12-210430	.01	8151A/HERB		Sediment	30.5130g	50.00mL	
13	K2104776-011	USMPDI-051SC-B-00-02-210430	.01	8151A/HERB		Sediment	30.2690g	50.00mL	
14	K2104776-012	USMPDI-051SC-B-02-04-210430	.01	8151A/HERB		Sediment	30.3100g	50.00mL	
15	K2104776-013	USMPDI-051SC-B-04-06-210430	.01	8151A/HERB		Sediment	30.2110g	50.00mL	
16	K2104776-014	USMPDI-051SC-B-06-08-210430	.01	8151A/HERB		Sediment	30.3210g	50.00mL	
17	K2104776-015	USMPDI-051SC-B-08-10-210430	.01	8151A/HERB		Sediment	30.9010g	50.00mL	
18	K2104776-016	USMPDI-051SC-B-10-10.8-210430	.01	8151A/HERB		Sediment	10.5510g	50.00mL	
19	KQ2107590-03	LCS		8151A/HERB		Solid	30.00g	50.00mL	
20	KQ2107590-04	MB		8151A/HERB		Solid	30.9010g	50.00mL	

Spiking Solutions

Name:	8151A 5ppm Herbicide surrogate	Inventory ID	216336	Logbook Ref:	Penta02-26H	Expires On:	09/30/2021
K2104776-001	1,000.00µL	K2104776-002	1,000.00µL	K2104776-004	1,000.00µL	K2104776-005	1,000.00µL
K2104776-007	1,000.00µL	K2104776-008	1,000.00µL	K2104776-009	1,000.00µL	K2104776-011	1,000.00µL
K2104776-013	1,000.00µL	K2104776-014	1,000.00µL	K2104776-015	1,000.00µL	K2104776-012	1,000.00µL
KQ2107590-03	1,000.00µL			K2104776-016	1,000.00µL	KQ2107590-01	1,000.00µL
KQ2107590-04	1,000.00µL					KQ2107590-02	1,000.00µL

Name: 8151A 5ppm Herbicide surrogate

Inventory ID 216337

Logbook Ref: Penta02-26I

Expires On: 09/30/2021

Preparation Information Benchsheet

Prep Run#: 378806

Team: Semivva GC/GTRIGG

Prep WorkFlow: OrgHerbS(14)
Prep Method: Method

Status: Prepped
Prep Date/Time: 5/6/21 14:05

Preparation Steps

Step:	Weight	Step:	Extraction	Step:	Derivatization	Step:	Final Volume
Started:	5/6/21 14:05	Started:	5/19/21 16:30	Started:	5/20/21 13:00	Started:	5/20/21 16:12
Finished:	5/6/21 16:11	Finished:	5/19/21 17:45	Finished:	5/20/21 13:30	Finished:	5/20/21 16:12
By:	GTRIGG	By:	GTRIGG	By:	GTRIGG	By:	GTRIGG
Comments:	RAICLINSKI	Comments:		Comments:		Comments:	

5.23.21

Comments: *Counter*

Reviewed By: _____ Date: 05.23.2021

Chain of Custody

Relinquished By: _____ Date: 5/20/21

Received By: _____ Date: _____

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 378806
 Team: Semivoa GC/GTRIGG
 Number of Copies to make: 1

Prep Workflow: OrgHerbs(14)
 Prep Method:

Status: Draft
 Prep Date/Time: 5/6/21 02:05 PM

#	Lab Code	Client ID	B#	Method / Test	Matrix	Amt. Ext.	pH	Int. Vol	Final Vol	Surr Amt	Spike Amt
1	K2104776-001	USMPDI-024SC-B-00-02-210430	.01	8151A / HERB	Sediment	30.635	/	10	50	1000	1000
2	K2104776-002	USMPDI-024SC-B-02-05-210430	.01	8151A / HERB	Sediment	30.282	/	/	/	/	/
3	KQ2107590-01	K2104776-002 MS	.01	8151A / HERB	Solid	30.329	/	/	/	/	1000
4	KQ2107590-02	K2104776-002 DMS	.01	8151A / HERB	Solid	30.839	/	/	/	/	1000
5	K2104776-003	USMPDI-024SC-B-05-07-210430	.01	8151A / HERB	Sediment	30.390	/	/	/	/	/
6	K2104776-004	USMPDI-024SC-B-07-9-210430	.01	8151A / HERB	Sediment	30.236	/	/	/	/	/
7	K2104776-005	USMPDI-1024SC-B-05-07-210430	.01	8151A / HERB	Sediment	30.867	/	/	/	/	/
8	K2104776-006	USMPDI-029SC-B-00-02-210430	.01	8151A / HERB	Sediment	30.740	/	/	/	/	/
9	K2104776-007	USMPDI-029SC-B-02-05-210430	.01	8151A / HERB	Sediment	30.862	/	/	/	/	/
10	K2104776-008	USMPDI-029SC-B-05-07-210430	.01	8151A / HERB	Sediment	30.389	/	/	/	/	/
11	K2104776-009	USMPDI-029SC-B-07-10-210430	.01	8151A / HERB	Sediment	30.305	/	/	/	/	/
12	K2104776-010	USMPDI-029SC-B-10-12-210430	.01	8151A / HERB	Sediment	30.513	/	/	/	/	/
13	K2104776-011	USMPDI-051SC-B-00-02-210430	.01	8151A / HERB	Sediment	30.269	/	/	/	/	/
14	K2104776-012	USMPDI-051SC-B-02-04-210430	.01	8151A / HERB	Sediment	30.310	/	/	/	/	/
15	K2104776-013	USMPDI-051SC-B-04-06-210430	.01	8151A / HERB	Sediment	30.211	/	/	/	/	/
16	K2104776-014	USMPDI-051SC-B-06-08-210430	.01	8151A / HERB	Sediment	30.321	/	/	/	/	/
17	K2104776-015	USMPDI-051SC-B-08-10-210430	.01	8151A / HERB	Sediment	30.901	/	/	/	/	/
18	K2104776-016	USMPDI-051SC-B-10-10-210430	.01	8151A / HERB	Sediment	10.551	/	/	/	/	/
19	KQ2107590-03	LCS	/	8151A / HERB	Solid	30.000	/	/	/	/	1000
20	KQ2107590-04	MB	/	8151A / HERB	Solid	30.961	/	/	/	/	1000

Comments:

Penta 02-26I Acetone 500µm load x 8 9/30/21

Surrogate ID: Penta02-26H Acetone 500µm load x 8 9/30/21

Spike ID: Penta-29E Acetone 5-500µm load x 11 3 21

Witnessed By: *[Signature]*

Analyst: *[Signature]*

Assisted By:

ALS Environmental Extraction Analyst Notes

Service Request: _____ Prep Group: _____

Topic	Notes	Initials/Date
No Anomalies: <input type="checkbox"/>		
Sample Anomalies: <input type="checkbox"/>		
Organics Present (sticks, leafs, bugs): <input type="checkbox"/>		
Fuel Odors: <input type="checkbox"/>		
Sulfur Odors, Precipitate: <input type="checkbox"/>		
General Notes:	<p style="text-align: center;"><i>Reduced volume of sample 1C2104776-016 due to insufficient volume</i></p>	<p style="text-align: center;"><i>AZ 5/6/21</i></p>

Additional Prep Information for EPA Method 8151A
Herbicides in Soil

Service Request # 4776 Work Group # 7590

Acidified Sulfate Lot # D203-875 Matrix Sand Lot # 201468

Ethyl Ether Lot # EA001-US Hydrochloric Acid Lot # 204209

Wrist Action Shaker Start (time/date/initial): 1150 5/13/21 CA

Wrist Action Shaker Stop (time/date/initial): 1250 5/13/21 CA

N-Evap (time/date/initial): 0930 5/19/21 CA N-Evap Thermometer ID: X-5vm-004

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

Saponification Start (time/date/initial): ~~1105~~ 5/1225 5/19/21 CA 37% KOH Lot # D203-80V

Saponification Stop (time/date/initial): 1330 5/19/21 CA

Extraction Start (time/date/initial): 1630 5/19/21 CA Sulfuric Acid Lot # D203-97K

Extraction Stop (time/date/initial): 1745 5/19/21 CA

Derivatization Start (time/date/initial): 1300 5/20/21 CA Diazomethane Lot # D203-441K

Derivatization Stop (time/date/initial): 1330 5/20/21 CA

Pipette (5 mL) Lot # 08420647

Solvent Exchange to Iso-Octane (time/date/initial): 1340 5/20/21 CA

Iso-Octane Lot # D2155-VS N-Evap Thermometer ID: X5vm-004

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

Pipette (1 mL) Lot # H1136

Vial: Red Vial Storage: COUNTER

Archive Storage: Chuck

Additional Comments: _____

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

Validation Report

1st *SW* 05/29/21
2nd *SW* 05/29/21

Data File: J:\GC34\DATA\052821-HB\0528000007.D\
Lab ID: K2104776-001
RunType: N/A
Matrix: Sediment

Date Acquired: 5/28/21 18:11:14
Batch ID: 725573
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	

Sample Exceptions

Exception Categories	Result	Corrective Action
Preparation Hold Time	Prep Date/Time: 05/26/2021 1610 Hold Date/Time: 05/14/2021 2359	See narrative

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - Rtx-CLPesticides	2,4,5-TP	21		20	CCV+ND
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides	2,4,5-TP	26		20	CCV+ND

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *K* 05/29/21
2nd *FW* 05/29/21

Data File: J:\GC34\DATA\052821-HB\0528000007.D\	Instrument: K-GC-34
Acqu Date: 5/28/21 18:11:14	Vial: 7
Run Type: N/A	Dilution: 1
Lab ID: K2104776-001	Raw Units: ppb

Bottle ID: K2104776-001.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 4/30/21	Receive Date: 5/3/21

Analysis Lot: 725573	Prep Lot: 380155	Report Group: K2104776
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 5/26/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100249
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	10.04	9.69	69704142	34122660	87.322	75.215	87	75	75	26 - 127	N

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	0.00	0.00	0	0	0.000 ^{ccv}	0.000	0U	0U	4.6 U	N
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	15 U	N

Prep Amount: 30.7540 g	Dilution: 1
Prep Final Amount: 50.00 mL	Basis Factor: 51.30

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

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

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

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Data File : J:\GC34\DATA\052821-HB\05280000007.D Vial: 5
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28-May-2021, 18:11:14 Operator: TAP
 Sample : K2104776-001 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 11:11:14 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 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...	10.043	9.687	69704142	34122660	87.322m	75.215
Target Compounds						
1) m Dalapon	5.630f	5.227	3505716	1618280	3.420	2.911
3) m Dicamba	10.320f	9.897	446626	116516	0.173	0.079 #
4) m MCPP	0.000	0.000	0	0	N.D.	N.D. d
5) m MCPA	10.610	10.237	3936241	233616	N.D.	N.D.
6) m Dichloroprop	0.000	0.000	0	0	N.D.	N.D. d
7) m 2,4-D	0.000	0.000	0	0	N.D.	N.D. d
8) m 2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.
9) m 2,4,5-T	12.527f	12.130	674292	1075566	0.312	0.866 #
10) m 2,4-DB	13.000f	12.707f	1924396	121668	8.752	0.920 #
11) m Dinoseb	14.297	12.990f	7493204	1664907	3.855	1.454 #

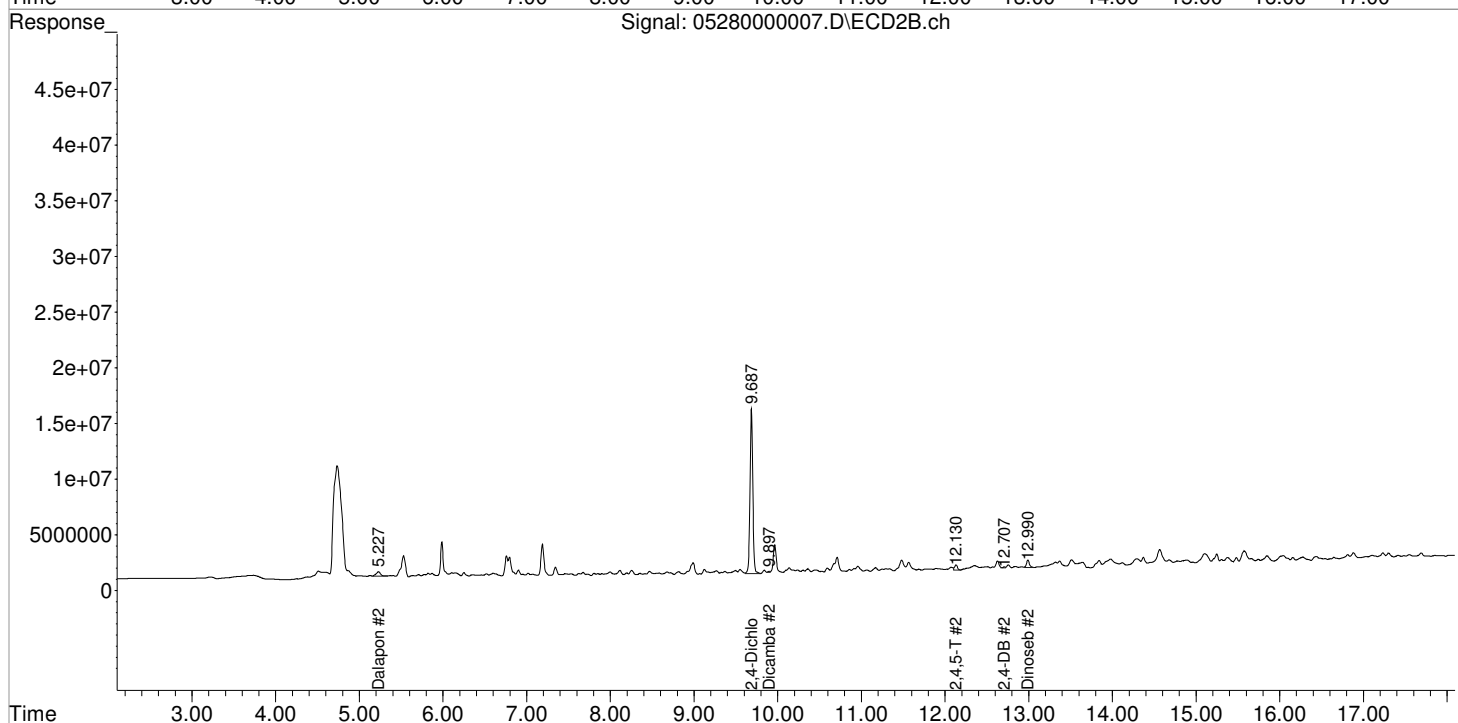
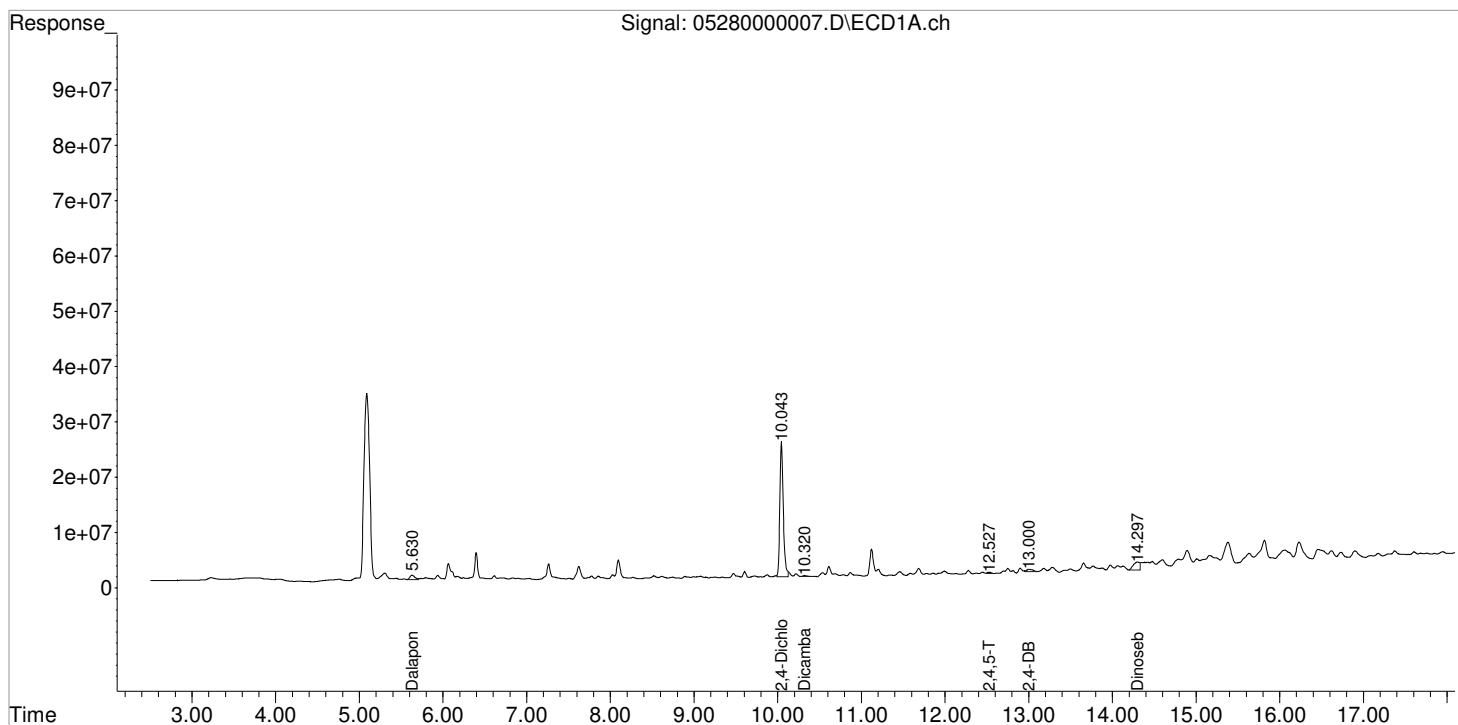
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\052821-HB\05280000007.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28-May-2021, 18:11:14
 Sample : K2104776-001
 Misc :
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 11:11:14 2021
 Quant Results File: 050621_8151.RES

Vial: 5
 Operator: TAP
 Inst : GCI
 Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

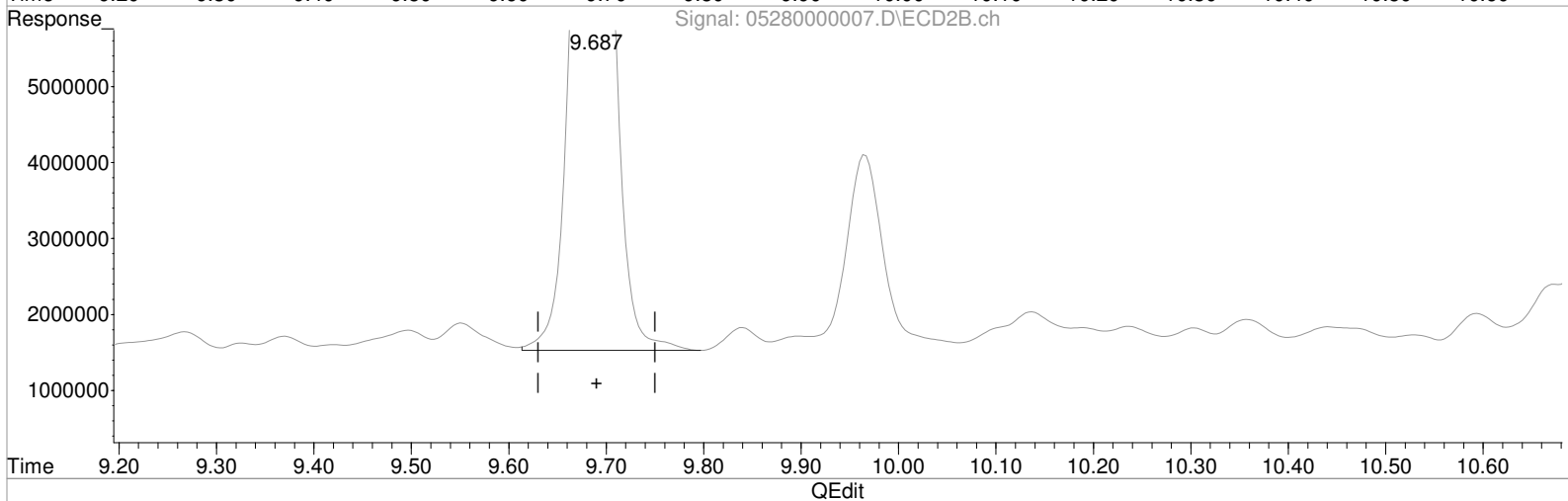
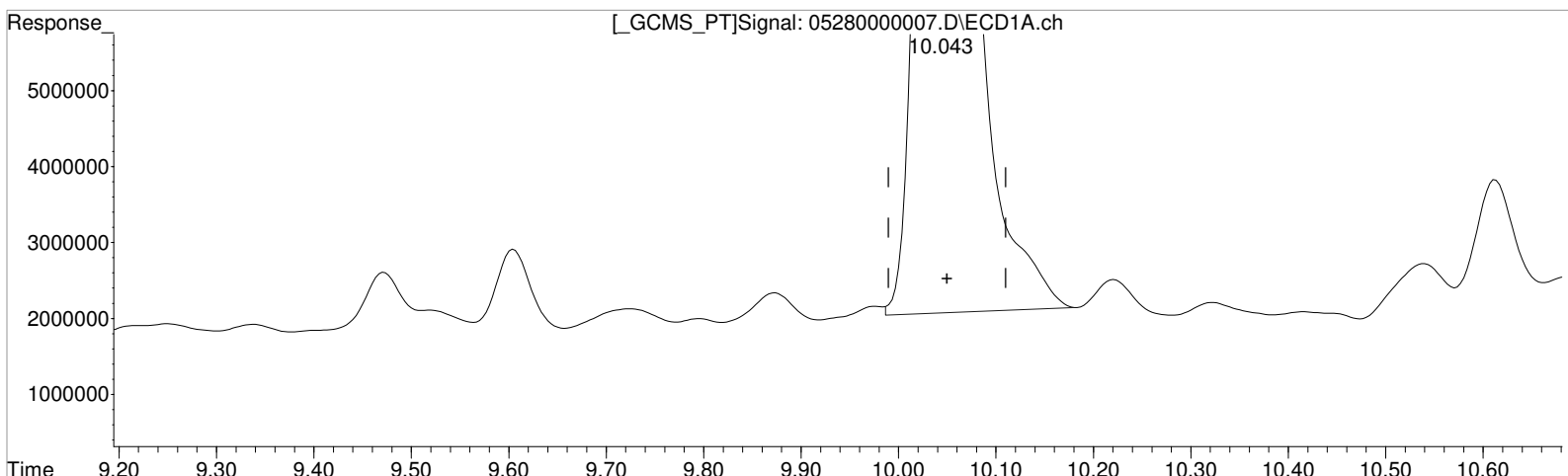
Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\052821-HB\05280000007.D Vial: 5
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28-May-2021, 18:11:14 Operator: TAP
 Sample : K2104776-001 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 11:01:47 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

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



(2) 2,4-Dichlorophenylacetic Acid (s)

10.043min 88.257 ppb
 response 70450331

Manual Integration:

Before

05/29/21

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

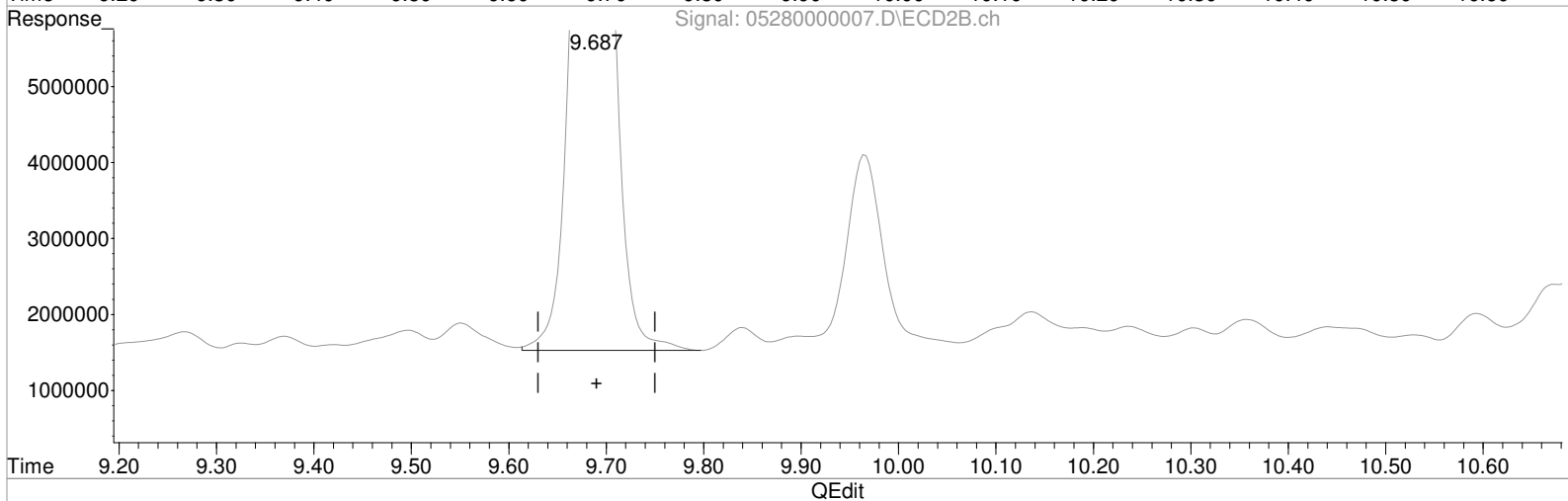
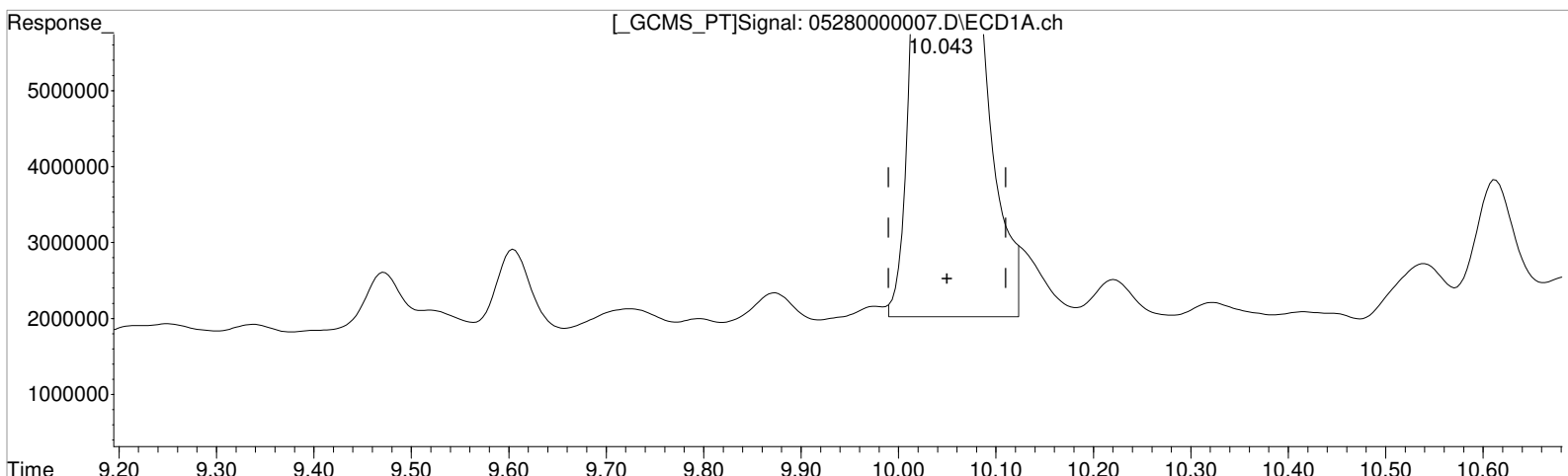
9.687min 75.215 ppb
 response 34122660

(+) = Expected Retention Time

Data File : J:\GC34\DATA\052821-HB\05280000007.D Vial: 5
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28-May-2021, 18:11:14 Operator: TAP
 Sample : K2104776-001 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 11:01:47 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

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



(2) 2,4-Dichlorophenylacetic Acid (s)

10.043min 87.322 ppb m
 response 69704142

Manual Integration:



After
 Baseline/Shoulder
 05/29/21

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

9.687min 75.215 ppb
 response 34122660

(+) = Expected Retention Time

Validation Report

1st  05/29/21
2nd  05/29/21

Data File: J:\GC34\DATA\052821-HB\05280000008.D\
Lab ID: K2104776-002
RunType: N/A
Matrix: Sediment

Date Acquired: 5/28/21 18:35:02
Batch ID: 725573
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	

Sample Exceptions

Exception Categories	Result	Corrective Action
Preparation Hold Time	Prep Date/Time: 05/26/2021 1610 Hold Date/Time: 05/14/2021 2359	See narrative

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - Rtx-CLPesticides	2,4,5-TP	21		20	CCV+ND
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides	2,4,5-TP	26		20	CCV+ND

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *K* 05/29/21
2nd *FW* 05/29/21

Data File: J:\GC34\DATA\052821-HB\05280000008.D\	Instrument: K-GC-34
Acqu Date: 5/28/21 18:35:02	Vial: 8
Run Type: N/A	Dilution: 1
Lab ID: K2104776-002	Raw Units: ppb

Bottle ID: K2104776-002.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 4/30/21	Receive Date: 5/3/21

Analysis Lot: 725573	Prep Lot: 380155	Report Group: K2104776
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 5/26/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100249
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	10.04	9.69	72143776	35211779	90.378	77.615	90	78	78	26 - 127	N

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	0.00	0.00	0	0	0.000 ^{ccv}	0.000	0U	0U	4.4 U	N
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	15 U	N

Prep Amount: 30.3840 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 53.90

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

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

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

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Data File : J:\GC34\DATA\052821-HB\05280000008.D Vial: 6
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28-May-2021, 18:35:02 Operator: TAP
 Sample : K2104776-002 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 11:04:08 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 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...	10.043	9.687	72143776	35211779	90.378m	77.615
Target Compounds						
1) m Dalapon	5.630f	5.230	2003974	648710	1.955	1.167 #
3) m Dicamba	10.313	9.893	1079194	198991	0.417	0.135 #
4) m MCPP	0.000	0.000	0	0	N.D.	N.D. d
5) m MCPA	0.000	0.000	0	0	N.D. d	N.D.
6) m Dichloroprop	0.000	0.000	0	0	N.D.	N.D. d
7) m 2,4-D	0.000	0.000	0	0	N.D.	N.D. d
8) m 2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.
9) m 2,4,5-T	12.530f	12.133	1309414	1482304	0.606	1.193 #
10) m 2,4-DB	13.047	12.627f	2382451	1727045	10.835	13.060
11) m Dinoseb	14.300	12.990f	2084883	1252577	1.073	1.094

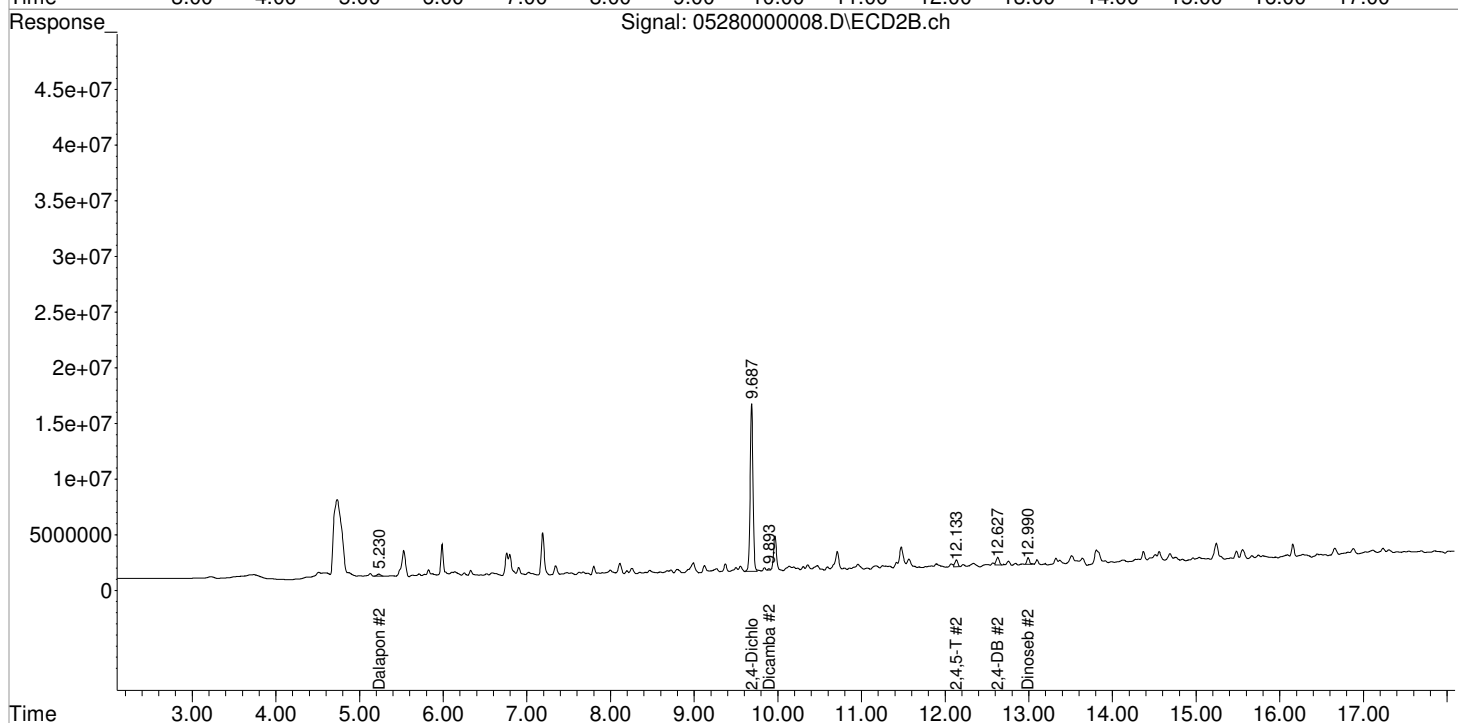
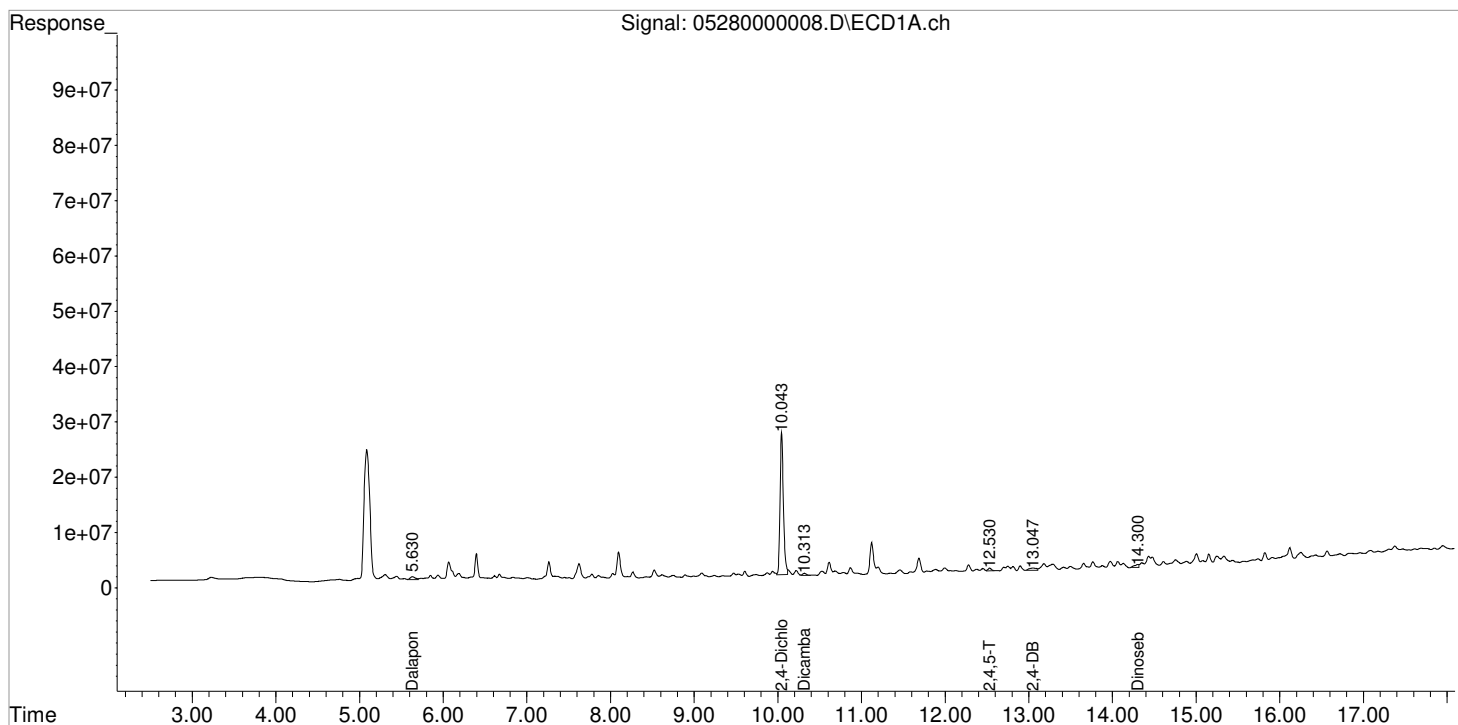
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\052821-HB\05280000008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 18:35:02
Sample : K2104776-002
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 11:04:08 2021
Quant Results File: 050621_8151.RES

Vial: 6
Operator: TAP
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

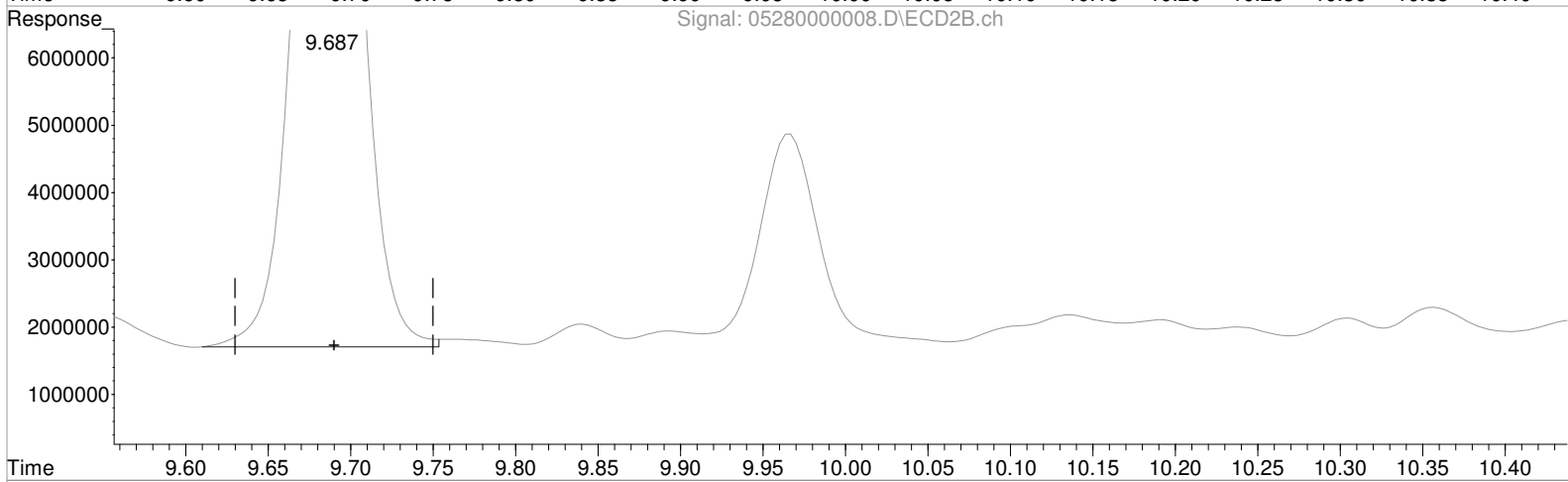
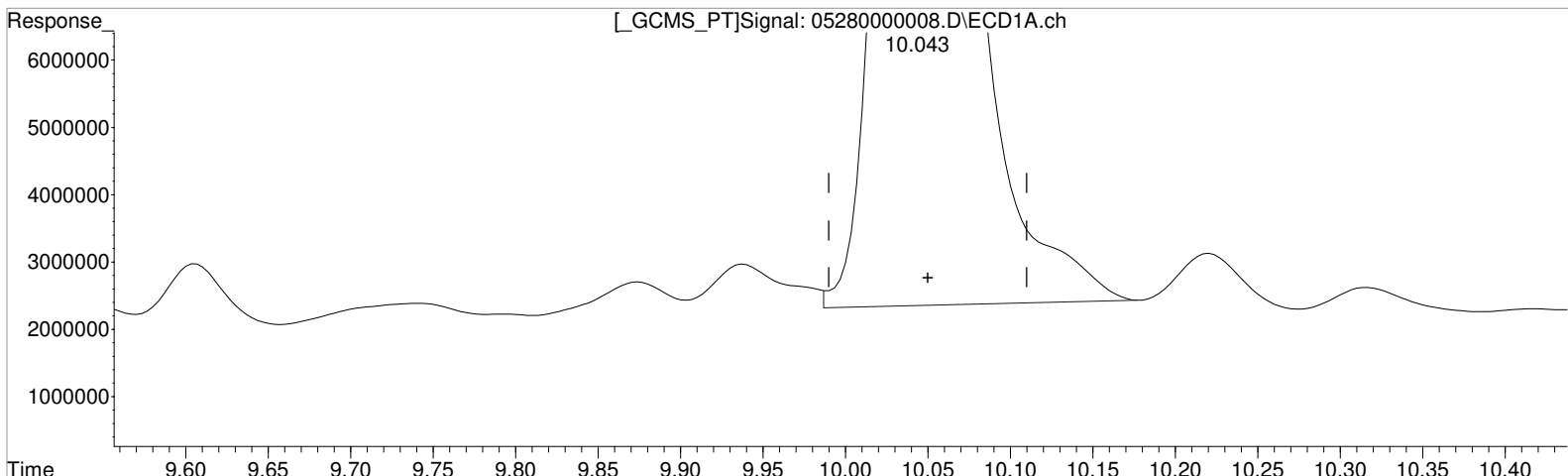
Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\052821-HB\05280000008.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 18:35:02 Operator: TAP
Sample : K2104776-002 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:34:49 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



(2) 2,4-Dichlorophenylacetic Acid (s)

10.043min 92.255 ppb
response 73641748

Manual Integration:

Before

05/29/21

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

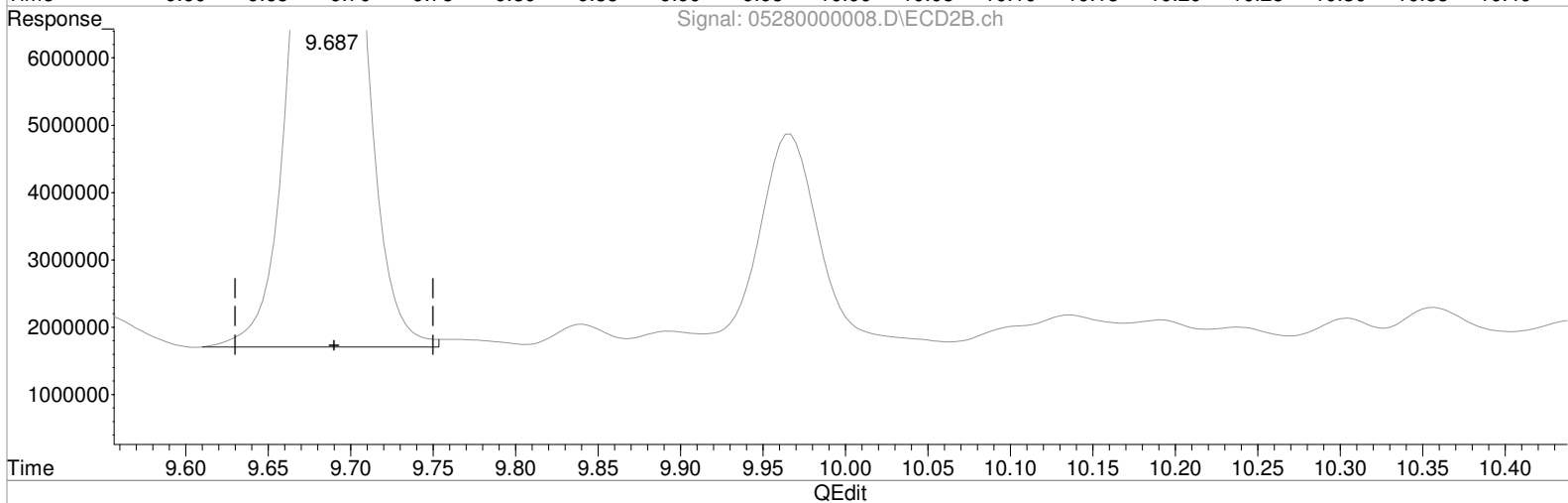
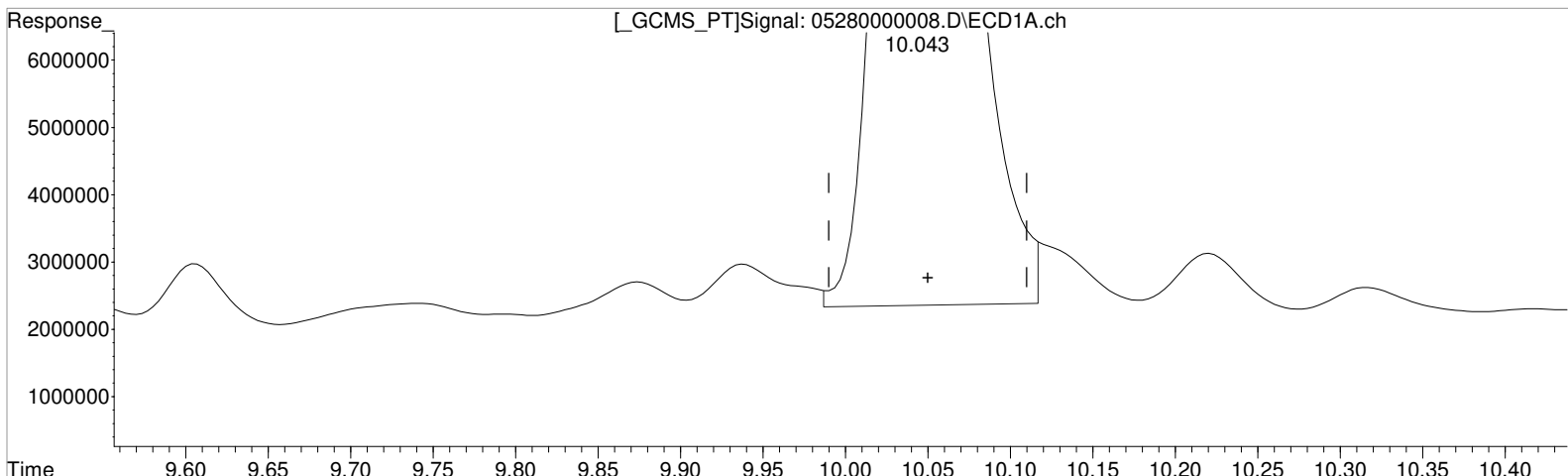
9.687min 77.615 ppb
response 35211779

(+) = Expected Retention Time

Data File : J:\GC34\DATA\052821-HB\05280000008.D Vial: 6
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 18:35:02 Operator: TAP
Sample : K2104776-002 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:34:49 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



(2) 2,4-Dichlorophenylacetic Acid (s)

10.043min 90.378 ppb m
response 72143776

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

9.687min 77.615 ppb
response 35211779

Manual Integration:

After

Baseline/Shoulder

05/29/21

(+) = Expected Retention Time

Validation Report

1st 05/29/21
2nd 05/29/21

Data File: J:\GC34\DATA\052821-HB\05280000011.D\
Lab ID: K2104776-003
RunType: N/A
Matrix: Sediment

Date Acquired: 5/28/21 19:46:30
Batch ID: 725573
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	

Sample Exceptions

Exception Categories	Result	Corrective Action
Preparation Hold Time	Prep Date/Time: 05/26/2021 1610 Hold Date/Time: 05/14/2021 2359	See narrative

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - Rtx-CLPesticides	2,4,5-TP	21		20	CCV+ND
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides	2,4,5-TP	26		20	CCV+ND

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *K* 05/29/21
2nd *FW* 05/29/21

Data File: J:\GC34\DATA\052821-HB\0528000011.D\	Instrument: K-GC-34
Acqu Date: 5/28/21 19:46:30	Vial: 9
Run Type: N/A	Dilution: 1
Lab ID: K2104776-003	Raw Units: ppb

Bottle ID: K2104776-003.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 4/30/21	Receive Date: 5/3/21

Analysis Lot: 725573	Prep Lot: 380155	Report Group: K2104776
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 5/26/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100249
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	10.04	9.69	74176202	36112944	92.924	79.602	93	80	80	26 - 127	N

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	12.18 ^{-0.01}	11.76 ^{+0.01}	483631	616397	0.166 ^{CCV}	0.366	0.51U	1.1U	4.5 U	N
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	15 U	N

Prep Amount: 30.1120 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 54.30

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

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

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

Printed: 5/29/21 12:15

\\alprews001\starlims\LIMSReps\QuantValidation.rpt

Data File : J:\GC34\DATA\052821-HB\05280000011.D Vial: 9
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28-May-2021, 19:46:30 Operator: TAP
 Sample : K2104776-003 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 11:12:15 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 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...	10.043	9.687	74176202	36112944	92.924m	79.602
Target Compounds						
1) m Dalapon	5.630f	5.227	2322497	881340	2.266	1.585 #
3) m Dicamba	0.000	9.897	0	759954	N.D.	0.517 #
4) m MCPP	10.427	9.967	140790	9658198	N.D.	5266.130
5) m MCPA	10.610	10.240	2894764	478487	N.D.	N.D.
6) m Dichloroprop	0.000	10.593	0	834316	N.D.	N.D.
7) m 2,4-D	0.000	0.000	0	0	N.D.	N.D. d
8) m 2,4,5-TP ...	12.183	11.757	483631	616397	0.166	0.366 #
9) m 2,4,5-T	12.530f	12.133	1299937	2121670	0.602	1.708 #
10) m 2,4-DB	13.047	12.630f	2936635	1943375	13.355	14.696
11) m Dinoseb	14.293	12.993f	2914489	2094749	1.499	1.829

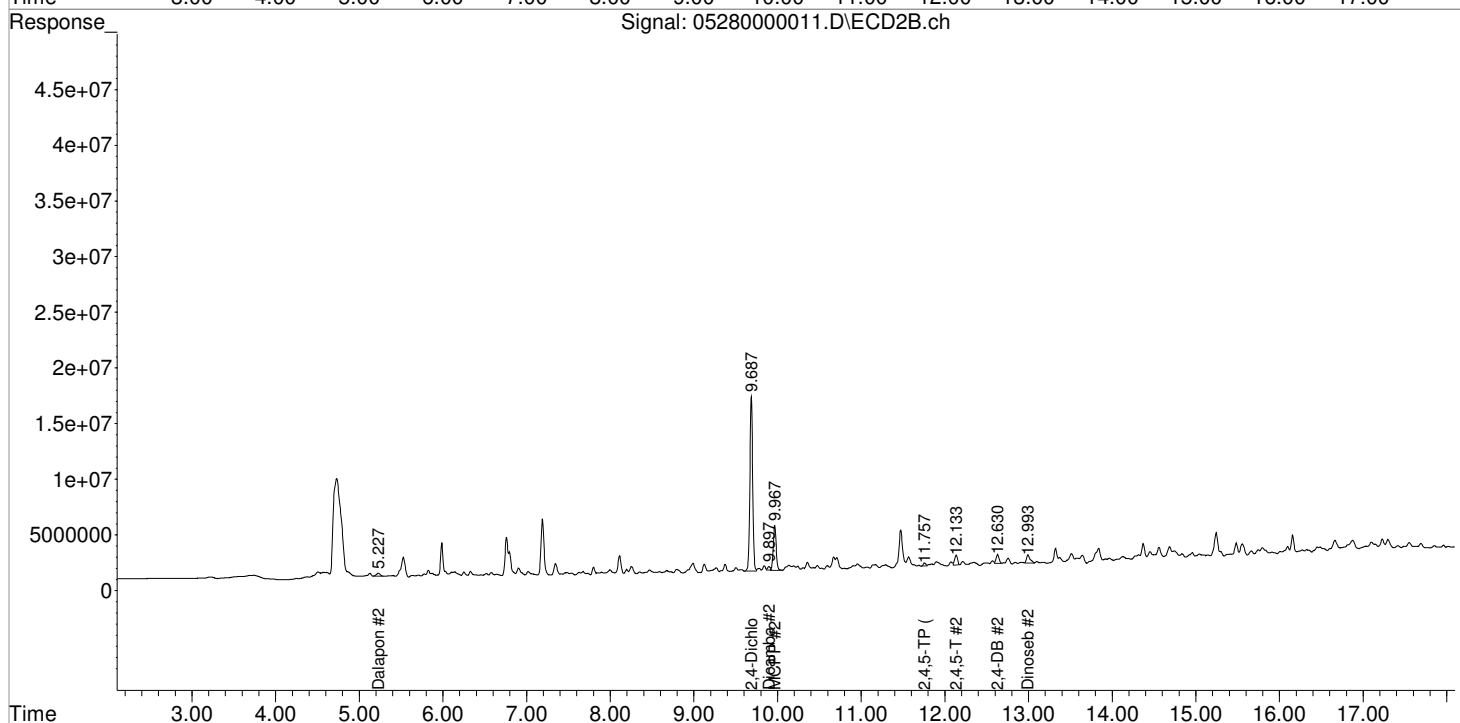
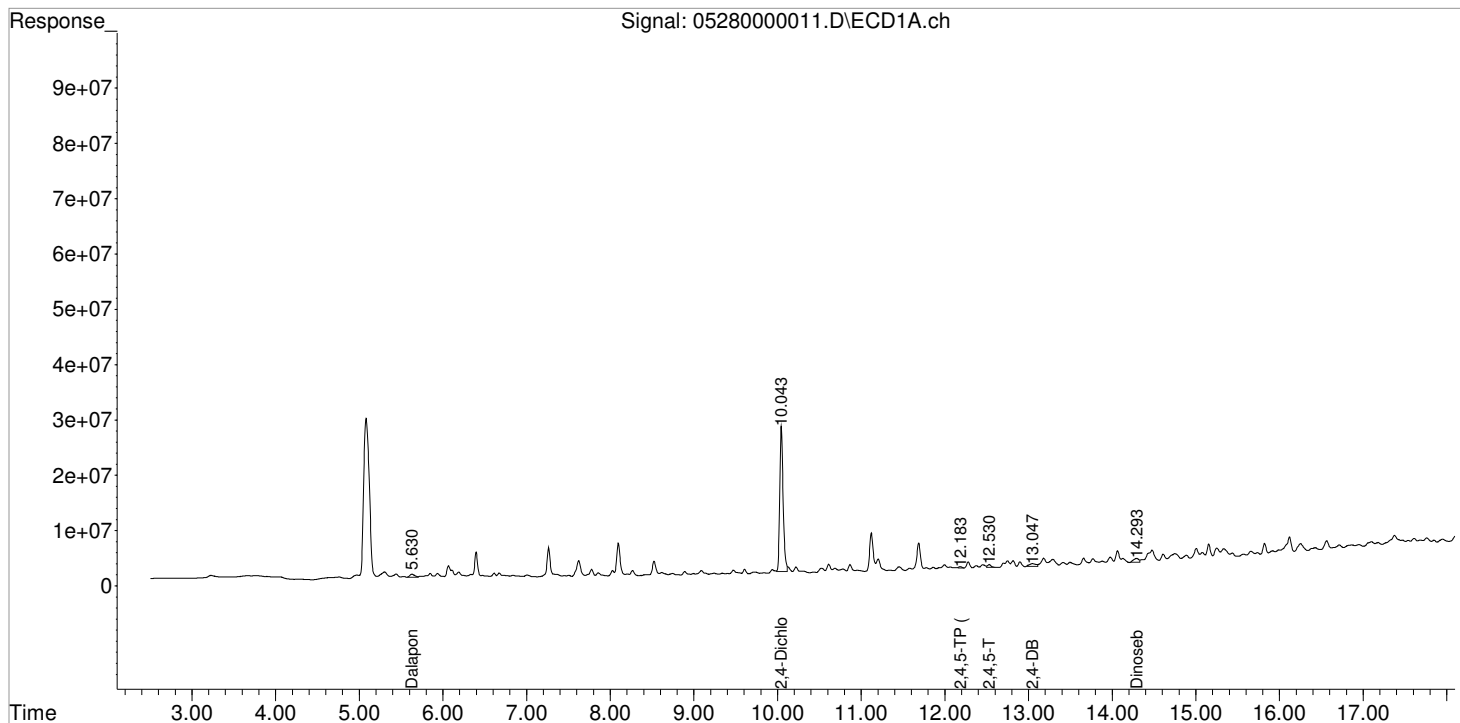
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\052821-HB\05280000011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 19:46:30
Sample : K2104776-003
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 11:12:15 2021
Quant Results File: 050621_8151.RES

Vial: 9
Operator: TAP
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

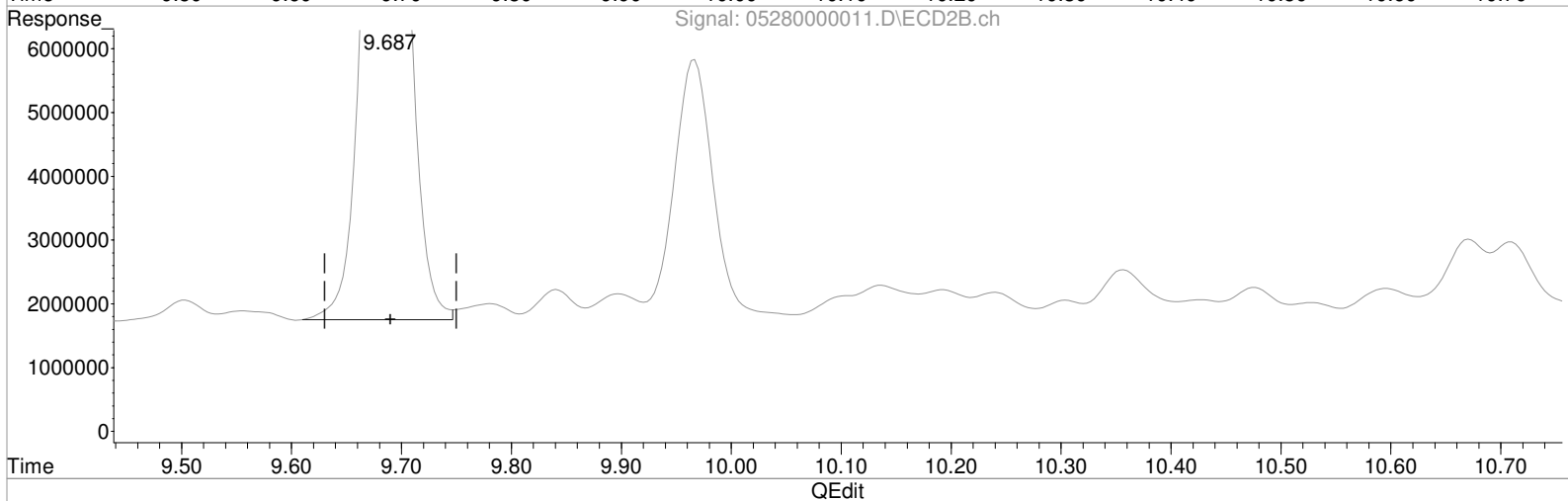
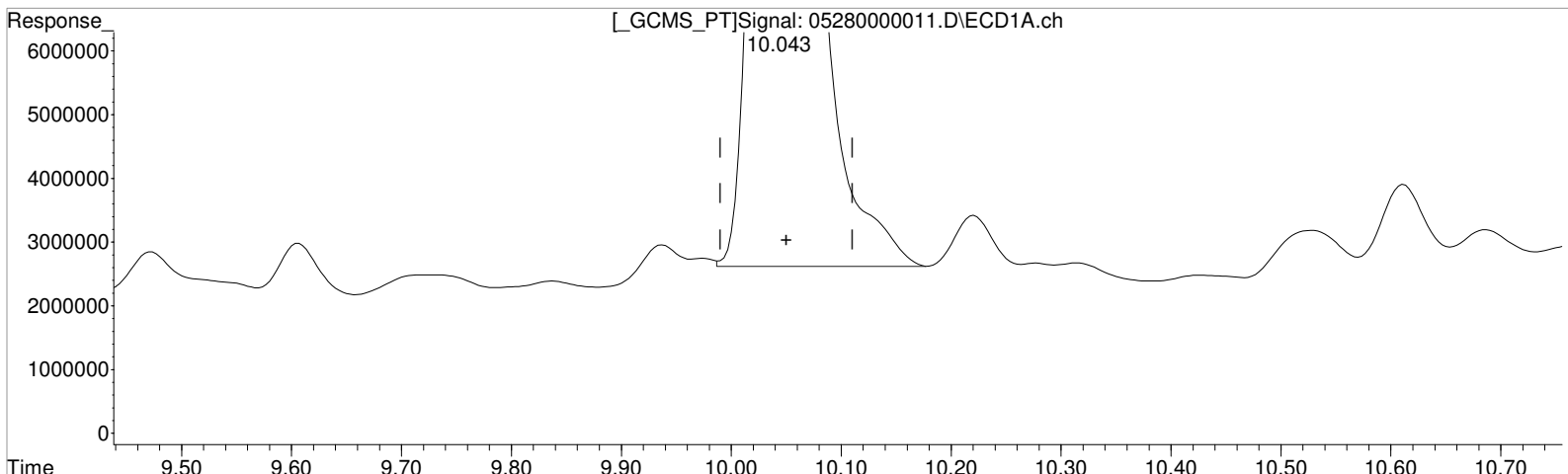
Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\052821-HB\05280000011.D Vial: 9
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28-May-2021, 19:46:30 Operator: TAP
 Sample : K2104776-003 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 11:07:06 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

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



(2) 2,4-Dichlorophenylacetic Acid (s)

10.043min 94.552 ppb
 response 75475559

Manual Integration:

Before

05/29/21

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

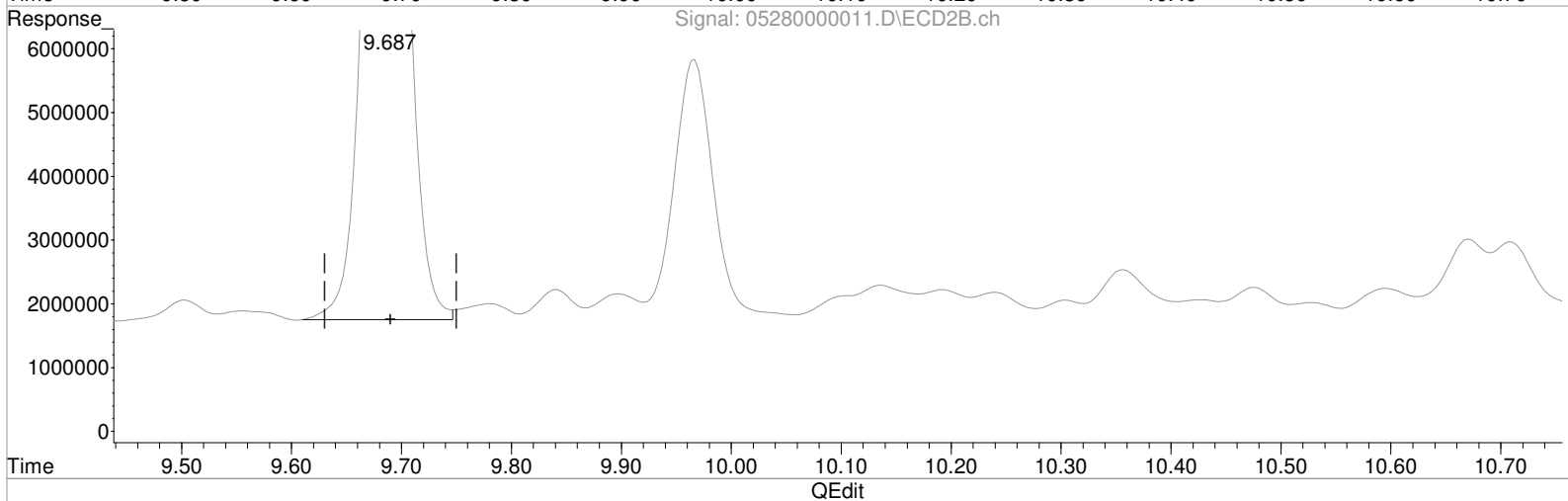
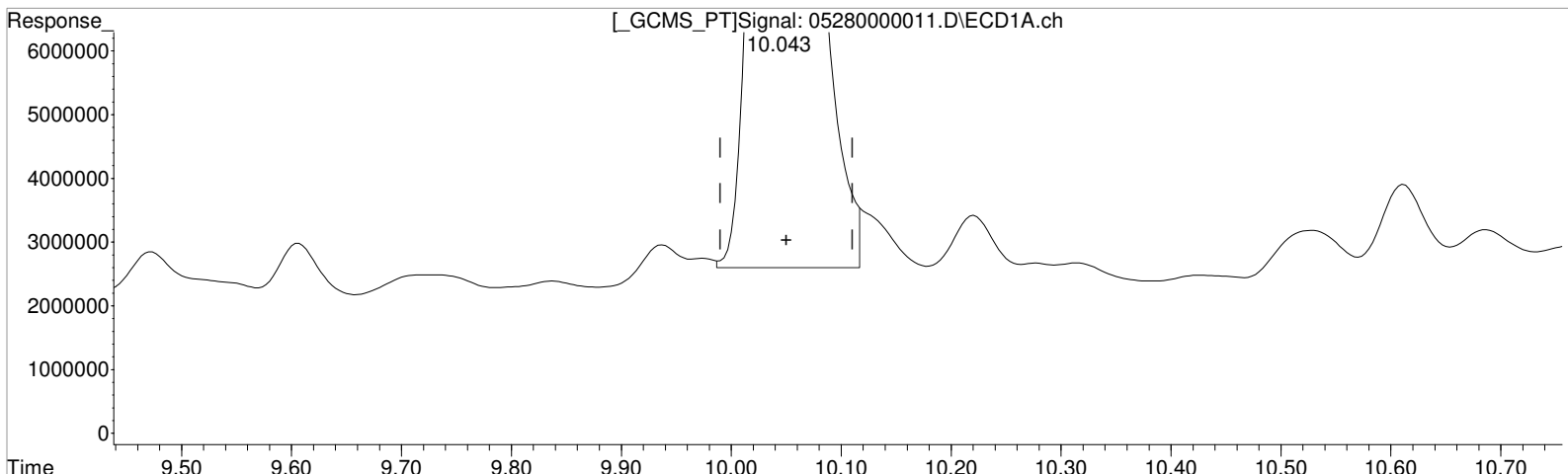
9.687min 79.602 ppb
 response 36112944

(+) = Expected Retention Time

Data File : J:\GC34\DATA\052821-HB\05280000011.D Vial: 9
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28-May-2021, 19:46:30 Operator: TAP
 Sample : K2104776-003 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 11:07:06 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

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



(2) 2,4-Dichlorophenylacetic Acid (s)

10.043min 92.924 ppb m
 response 74176202



Manual Integration:

After
 Baseline/Shoulder
 05/29/21

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

9.687min 79.602 ppb
 response 36112944

Validation Report

1st  05/29/21
2nd  05/29/21

Data File: J:\GC34\DATA\052821-HB\05280000012.D\
Lab ID: K2104776-004
RunType: N/A
Matrix: Sediment

Date Acquired: 5/28/21 20:10:22
Batch ID: 725573
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	

Sample Exceptions

Exception Categories	Result	Corrective Action
Preparation Hold Time	Prep Date/Time: 05/26/2021 1610 Hold Date/Time: 05/14/2021 2359	See narrative

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - Rtx-CLPesticides	2,4,5-TP	21		20	CCV+ND
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides	2,4,5-TP	26		20	CCV+ND

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *K* 05/29/21
2nd *FW* 05/29/21

Data File: J:\GC34\DATA\052821-HB\0528000012.D\	Instrument: K-GC-34
Acqu Date: 5/28/21 20:10:22	Vial: 10
Run Type: N/A	Dilution: 1
Lab ID: K2104776-004	Raw Units: ppb

Bottle ID: K2104776-004.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 4/30/21	Receive Date: 5/3/21

Analysis Lot: 725573	Prep Lot: 380155	Report Group: K2104776
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 5/26/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100249
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	10.04	9.69	73477818	37761120	92.049	83.235	92	83	83	26 - 127	N

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	0.00	0.00	0	0	0.000 ^{ccv}	0.000	0U	0U	4.1 U	N
2,4-D	11.26	10.89	1156472	938703	1.731	2.319	4.8U	6.5U	13 U	N

Prep Amount: 30.9130 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 57.90

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

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

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

Data File : J:\GC34\DATA\052821-HB\05280000012.D Vial: 10
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28-May-2021, 20:10:22 Operator: TAP
 Sample : K2104776-004 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 11:13:05 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 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...	10.043	9.687	73477818	37761120	92.049m	83.235
Target Compounds						
1) m Dalapon	5.630f	5.217	1697765	737807	1.656	1.327
3) m Dicamba	10.313	9.890	1254453	77347	0.485	0.053 #
4) m MCPP	0.000	9.963	0	7525038	N.D.	3937.545 #
5) m MCPA	10.607	10.187	2594850	278332	N.D.	N.D.
6) m Dichloroprop	0.000	10.593	0	998369	N.D.	N.D.
7) m 2,4-D	11.263	10.893	1156472	938703	1.731m	2.319 #
8) m 2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.
9) m 2,4,5-T	12.527f	12.133	2894358	1298886	1.341	1.045
10) m 2,4-DB	13.000f	12.627f	1237448	1615374	5.628	12.216 #
11) m Dinoseb	14.297	12.990f	4832313	2057434	2.486	1.797 #

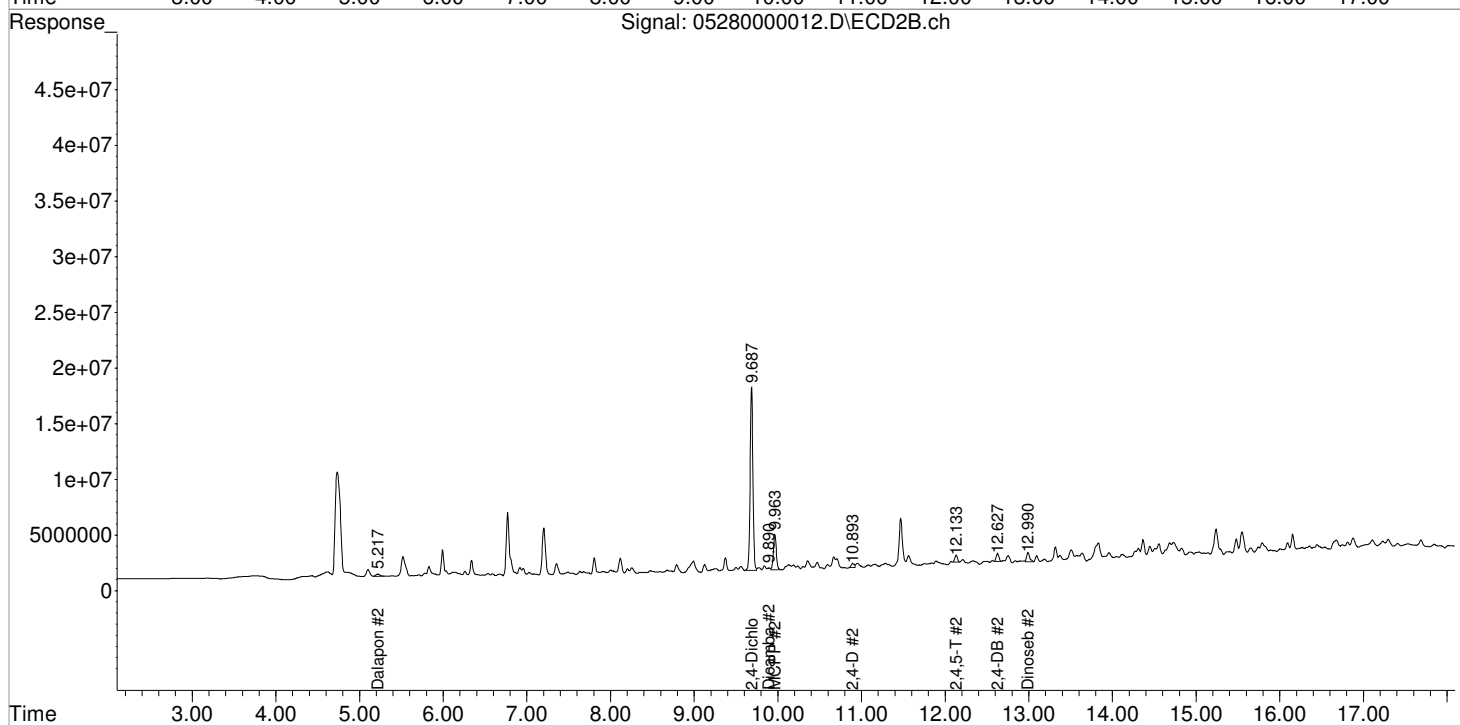
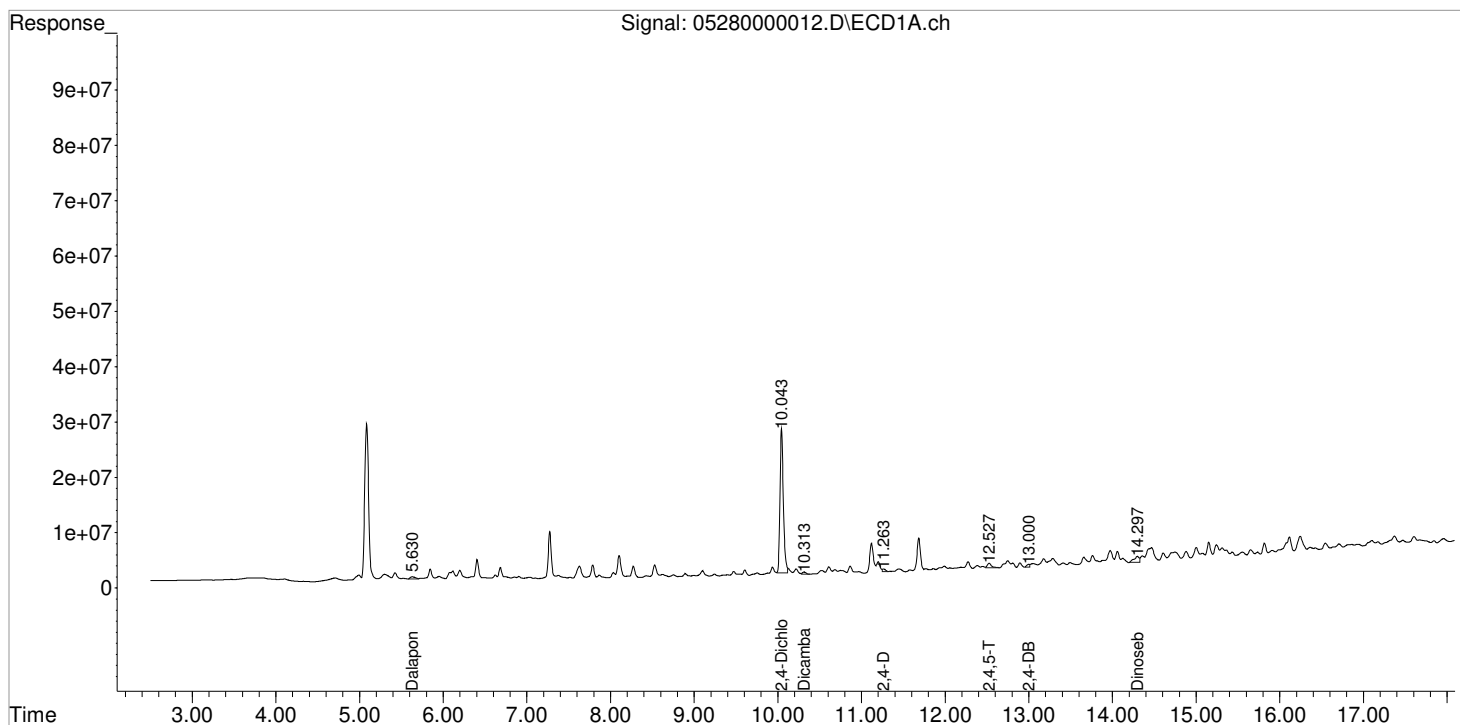
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\052821-HB\05280000012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 20:10:22
Sample : K2104776-004
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 11:13:05 2021
Quant Results File: 050621_8151.RES

Vial: 10
Operator: TAP
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

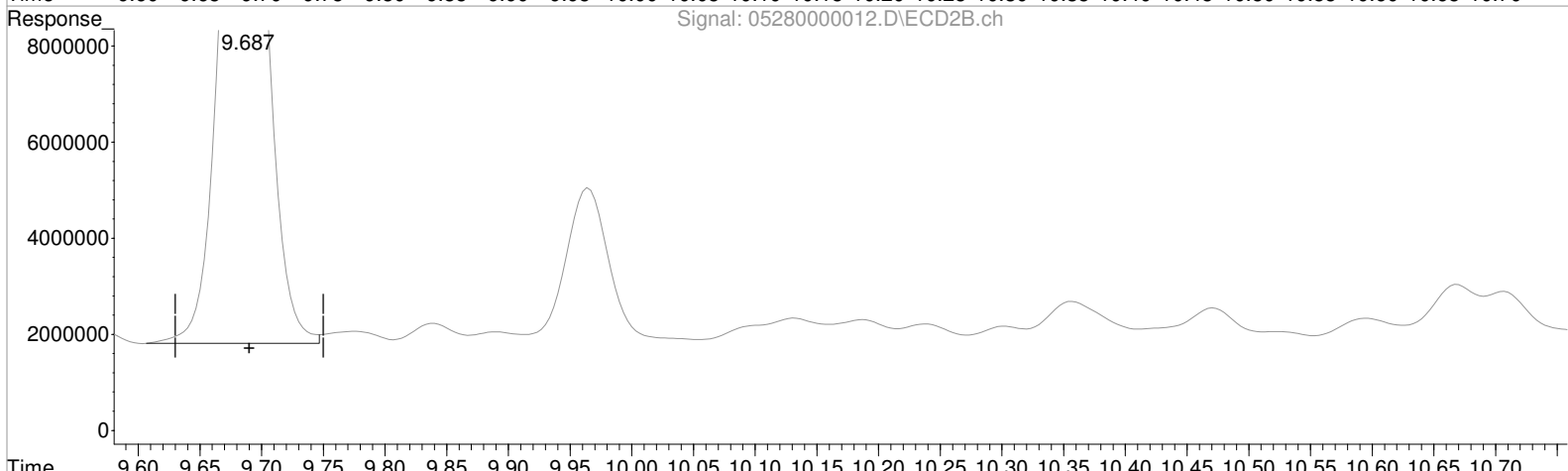
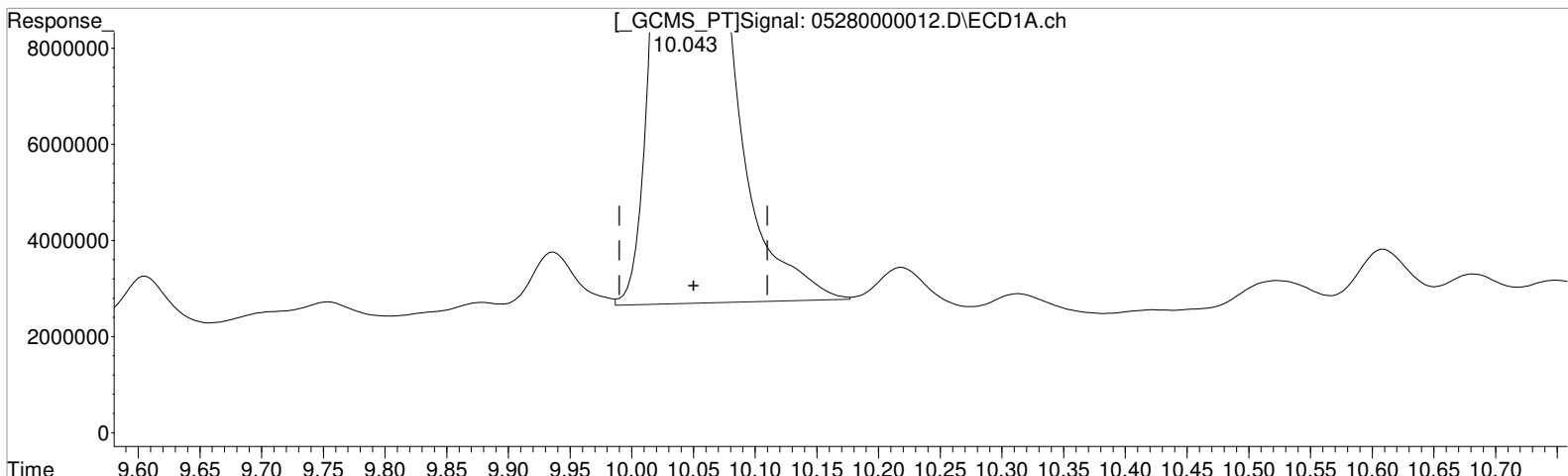
Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\052821-HB\05280000012.D Vial: 10
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 20:10:22 Operator: TAP
Sample : K2104776-004 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 11:08:22 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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

(2) 2,4-Dichlorophenylacetic Acid (s)

10.043min 93.969 ppb
response 75010174

Manual Integration:

Before

05/29/21

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

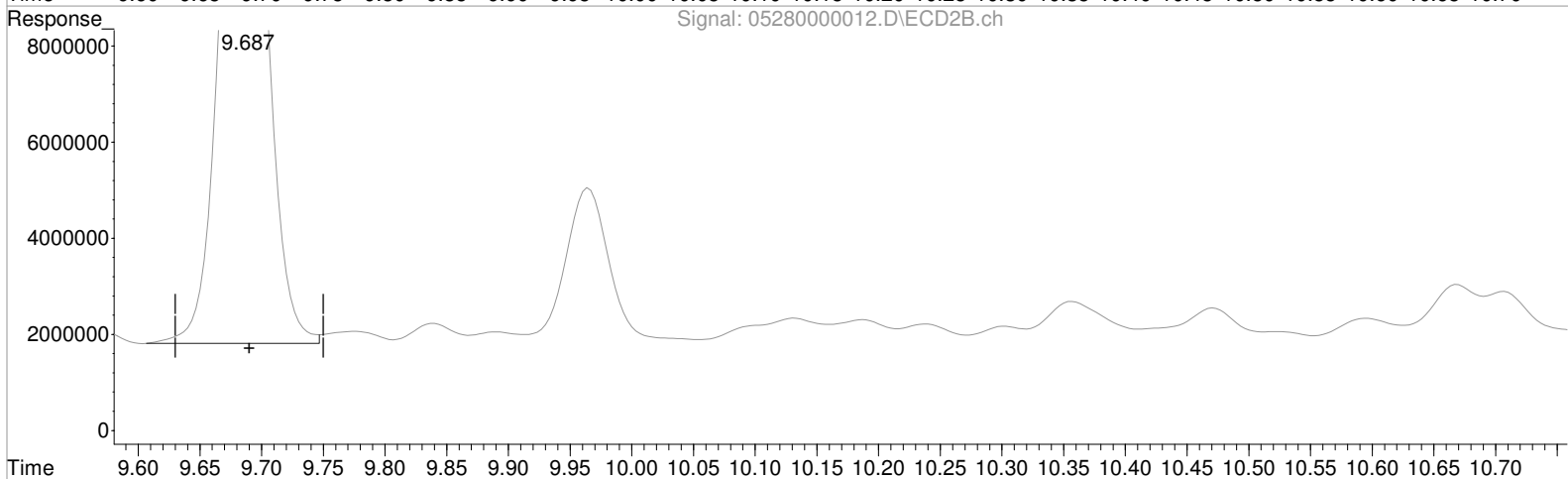
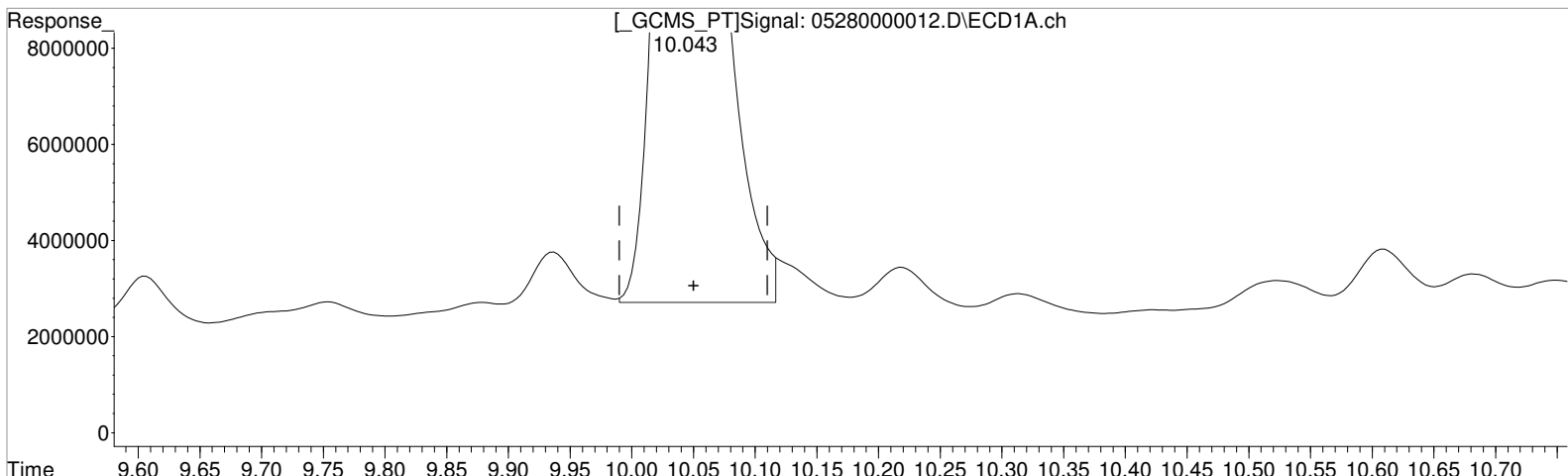
9.687min 83.235 ppb
response 37761120

(+) = Expected Retention Time

Data File : J:\GC34\DATA\052821-HB\05280000012.D Vial: 10
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 20:10:22 Operator: TAP
Sample : K2104776-004 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 11:08:22 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



(2) 2,4-Dichlorophenylacetic Acid (s)

10.043min 92.049 ppb m
response 73477818

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

9.687min 83.235 ppb
response 37761120

Manual Integration:

After

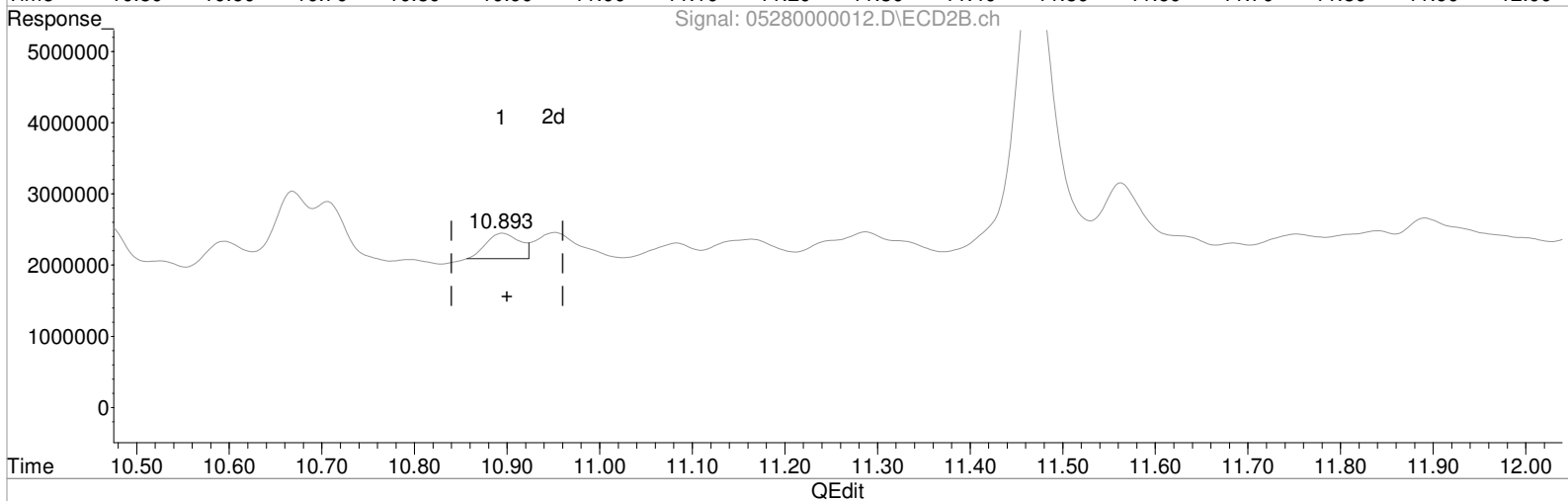
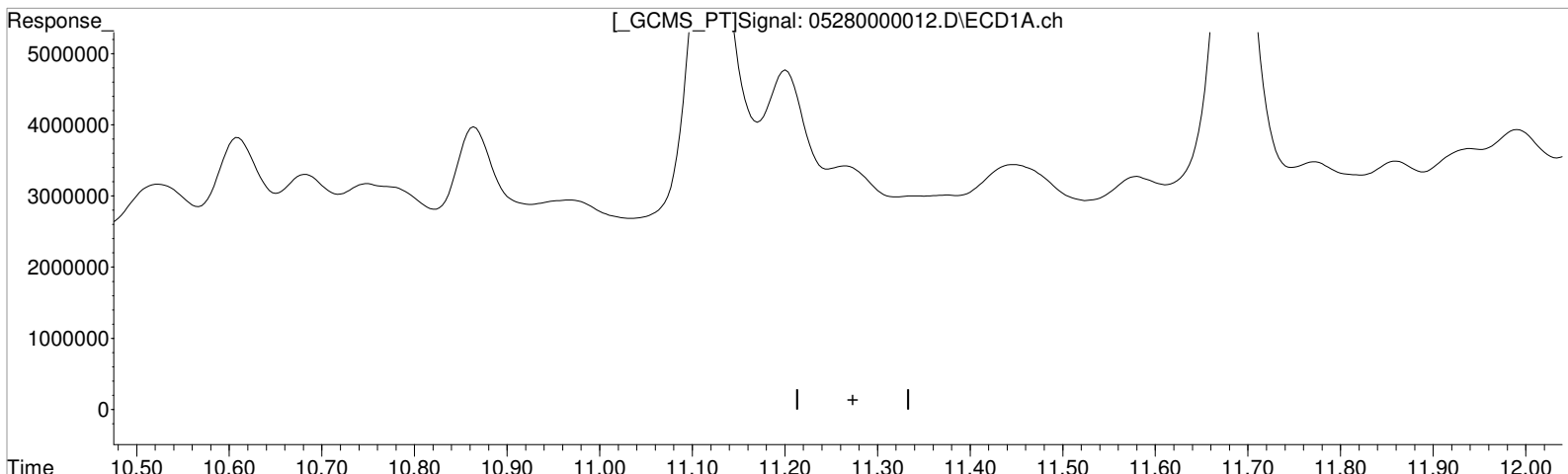
Baseline/Shoulder

05/29/21

Data File : J:\GC34\DATA\052821-HB\05280000012.D Vial: 10
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 20:10:22 Operator: TAP
Sample : K2104776-004 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:35:01 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



(7) 2,4-D (m)
0.000min 0.000 ppb
response 0

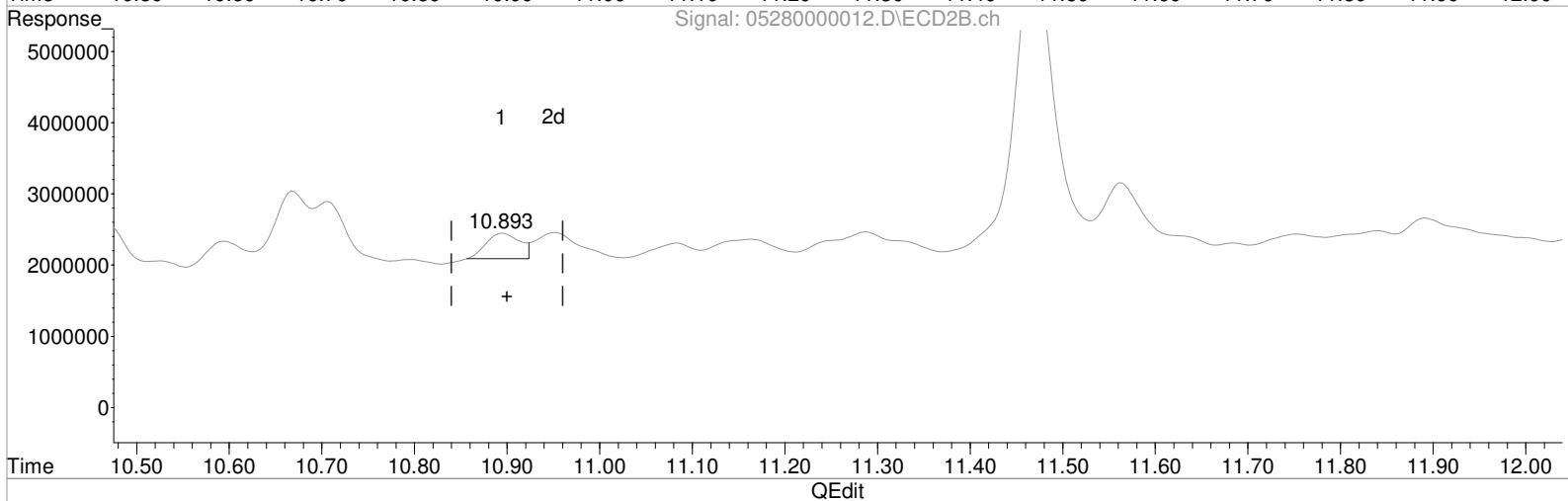
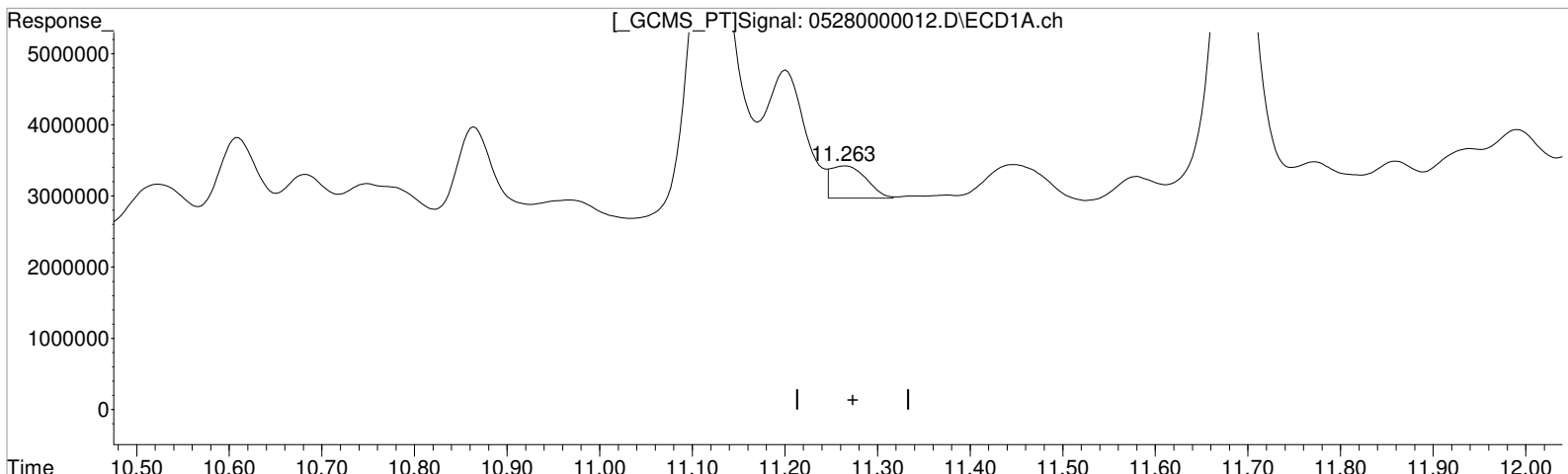
Manual Integration:
Before
05/29/21

(7) 2,4-D #2 (m)
10.893min 2.319 ppb
response 938703

Data File : J:\GC34\DATA\052821-HB\05280000012.D Vial: 10
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 20:10:22 Operator: TAP
Sample : K2104776-004 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:35:01 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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





(7) 2,4-D (m)
11.263min 1.731 ppb m
response 1156472

(7) 2,4-D #2 (m)
10.893min 2.319 ppb
response 938703

Manual Integration:
After
Missed Peak
05/29/21

Validation Report

1st  05/29/21
2nd  05/29/21

Data File: J:\GC34\DATA\052821-HB\05280000013.D\
Lab ID: K2104776-005
RunType: N/A
Matrix: Sediment

Date Acquired: 5/28/21 20:34:18
Batch ID: 725573
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	

Sample Exceptions

Exception Categories	Result	Corrective Action
Preparation Hold Time	Prep Date/Time: 05/26/2021 1610 Hold Date/Time: 05/14/2021 2359	See narrative

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - Rtx-CLPesticides	2,4,5-TP	21		20	CCV+ND
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides	2,4,5-TP	26		20	CCV+ND

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *K* 05/29/21
2nd *FW* 05/29/21

Data File: J:\GC34\DATA\052821-HB\0528000013.D\	Instrument: K-GC-34
Acqu Date: 5/28/21 20:34:18	Vial: 11
Run Type: N/A	Dilution: 1
Lab ID: K2104776-005	Raw Units: ppb

Bottle ID: K2104776-005.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 4/30/21	Receive Date: 5/3/21

Analysis Lot: 725573	Prep Lot: 380155	Report Group: K2104776
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 5/26/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100249
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	10.05 ^{+0.01}	9.69	66331239	32867704	83.096	72.448	83	72	72	26 - 127	N

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	0.00	0.00	0	0	0.000 ^{ccv}	0.000	0U	0U	4.4 U	N
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	15 U	N

Prep Amount: 30.2780 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 54.20

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

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

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

Printed: 5/29/21 12:15

\\alprews001\starlims\LIMSReps\QuantValidation.rpt

Data File : J:\GC34\DATA\052821-HB\05280000013.D Vial: 11
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28-May-2021, 20:34:18 Operator: TAP
 Sample : K2104776-005 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 11:09:25 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 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...	10.047	9.690	66331239	32867704	83.096m	72.448
Target Compounds						
1) m Dalapon	5.633f	5.230	2988276	1291136	2.916	2.323
3) m Dicamba	10.320f	9.890	732120	237468	0.283	0.162 #
4) m MCPP	10.433	9.970	414465	7466266	N.D.	3900.940
5) m MCPA	10.617	10.240	1219636	368319	N.D.	N.D.
6) m Dichloroprop	0.000	10.597	0	844909	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	12.533f	12.137	976564	1405682	0.452	1.131 #
10) m 2,4-DB	13.010f	12.630f	1519494	2118937	6.910	16.024 #
11) m Dinoseb	14.353f	12.997f	1300504	823139	0.669	0.719

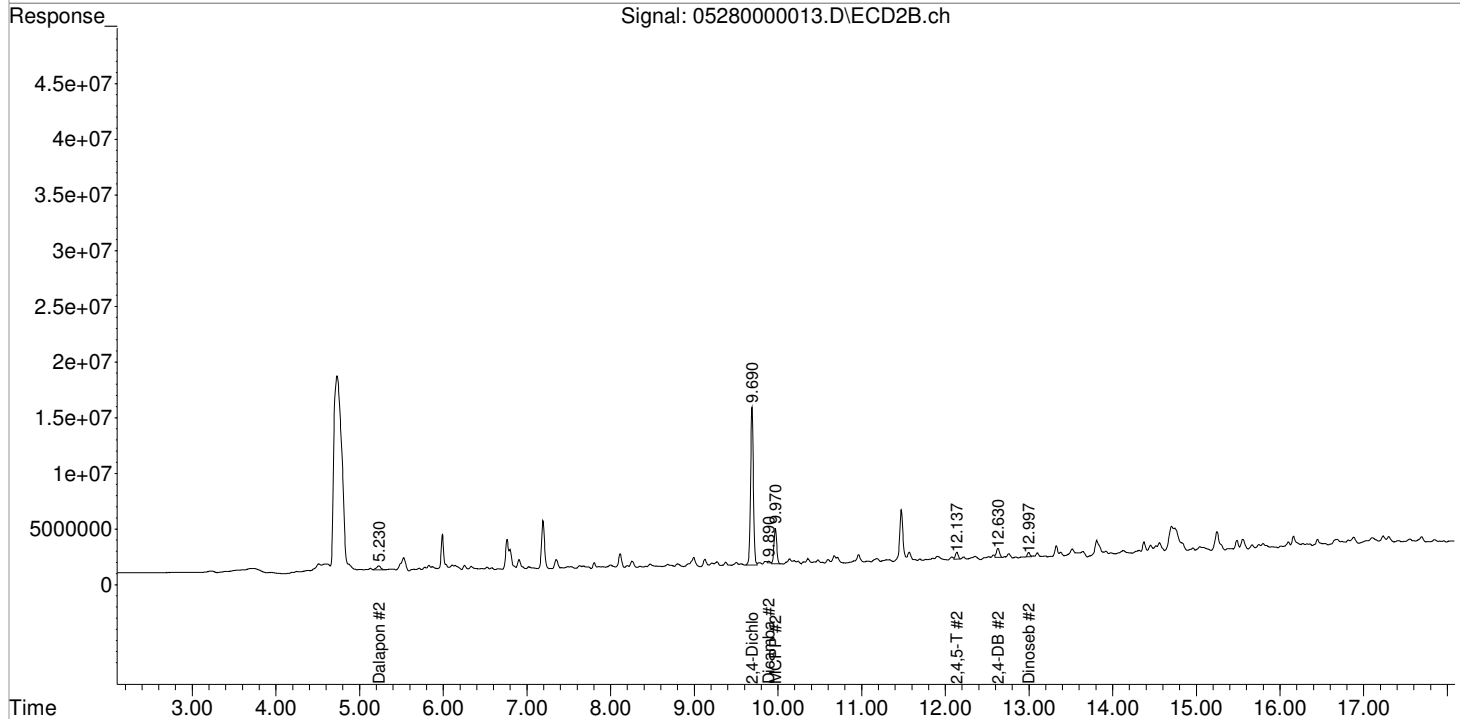
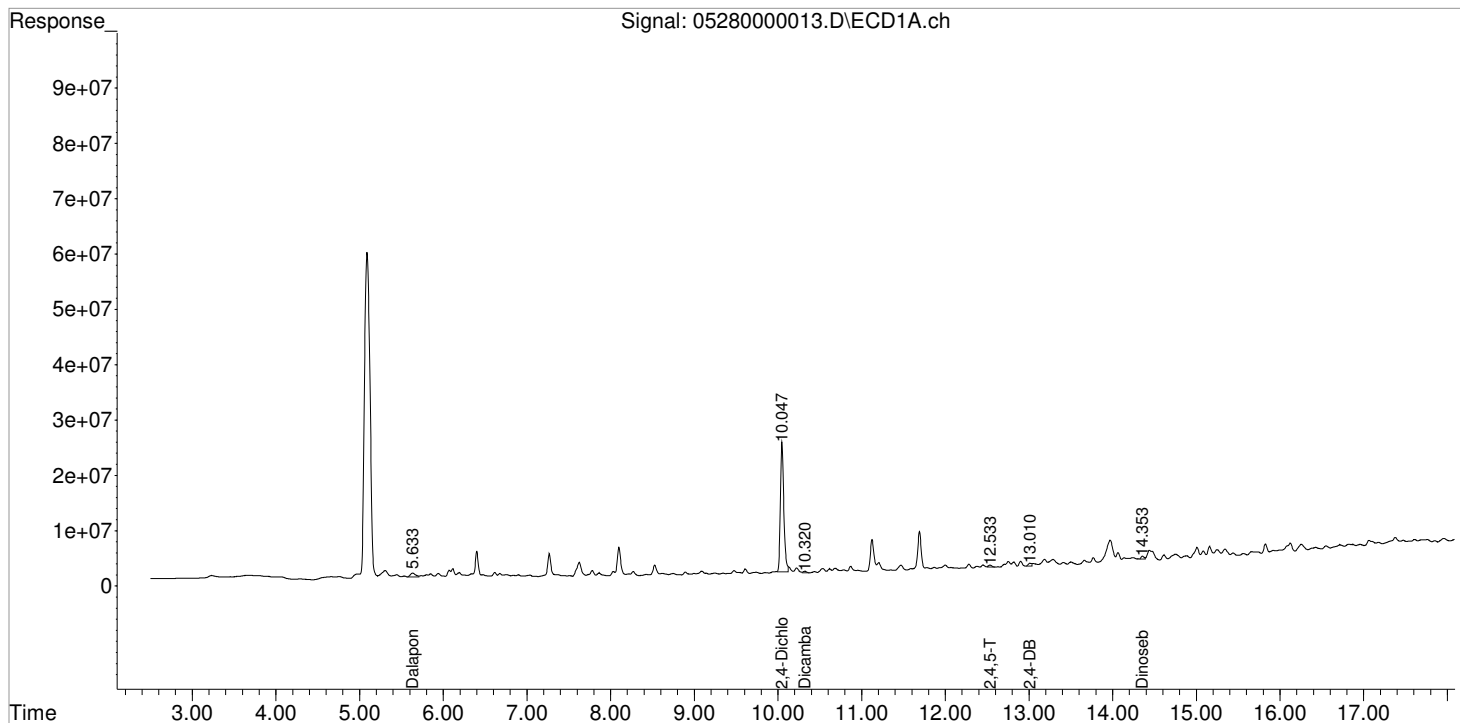
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\052821-HB\05280000013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 20:34:18
Sample : K2104776-005
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 11:09:25 2021
Quant Results File: 050621_8151.RES

Vial: 11
Operator: TAP
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

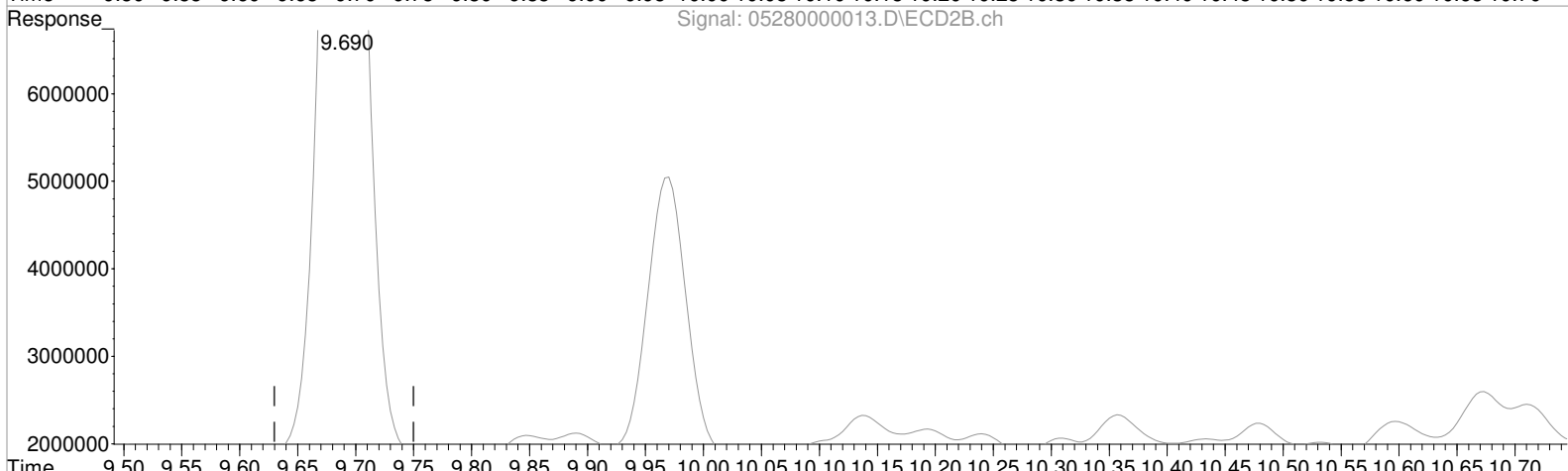
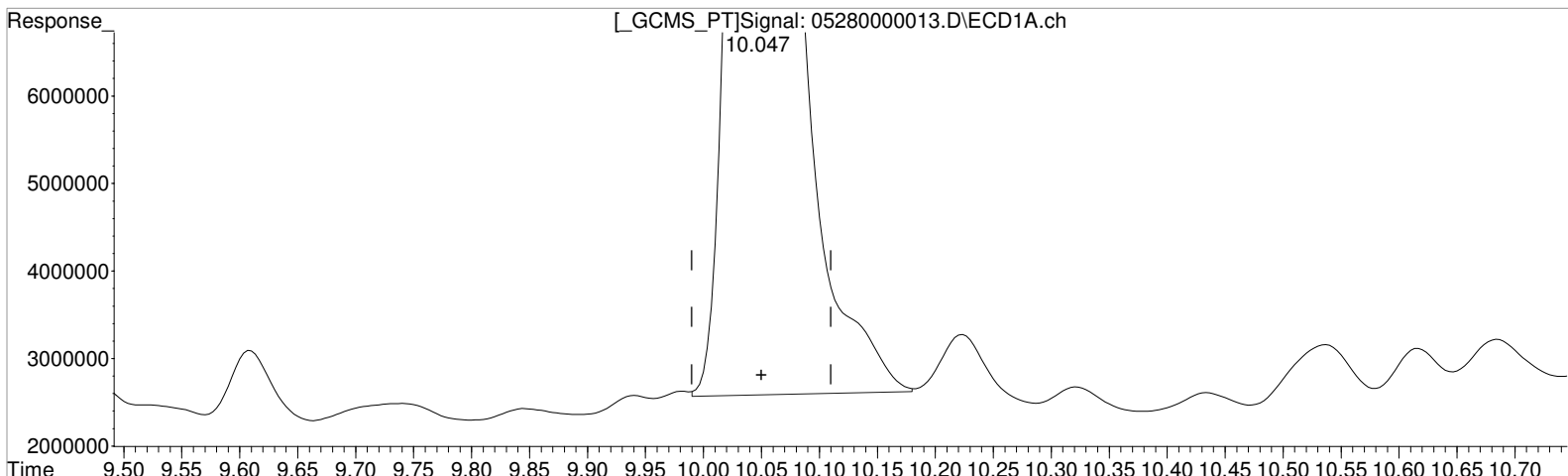
Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\052821-HB\05280000013.D Vial: 11
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 20:34:18 Operator: TAP
Sample : K2104776-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:35:04 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



(2) 2,4-Dichlorophenylacetic Acid (s)

10.047min 85.068 ppb
response 67905457

Manual Integration:

Before

05/29/21

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

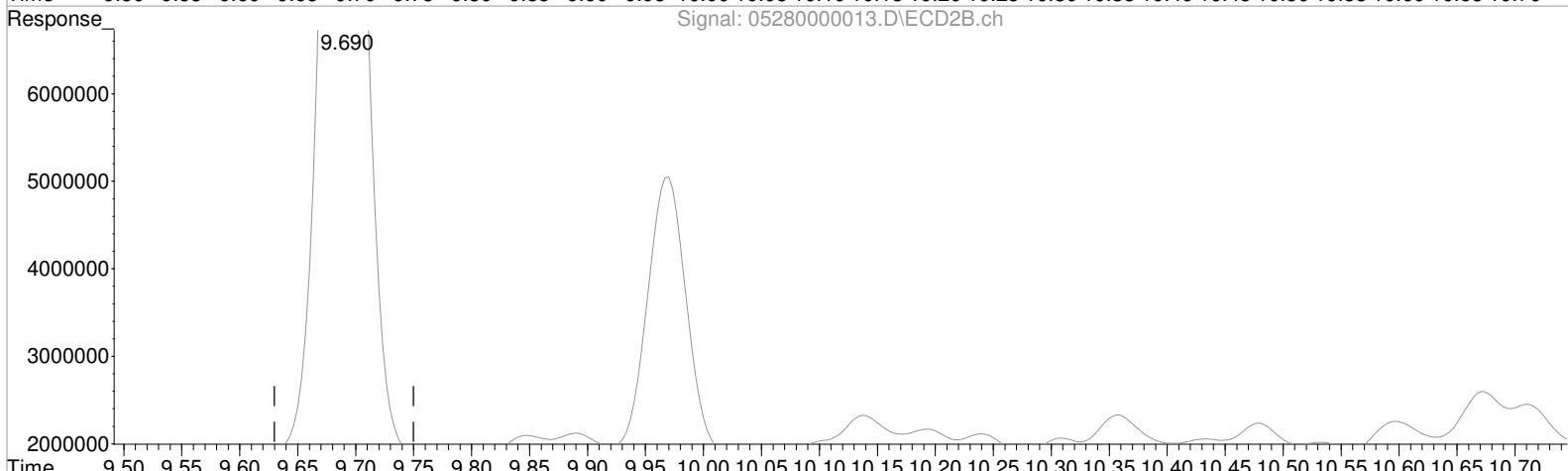
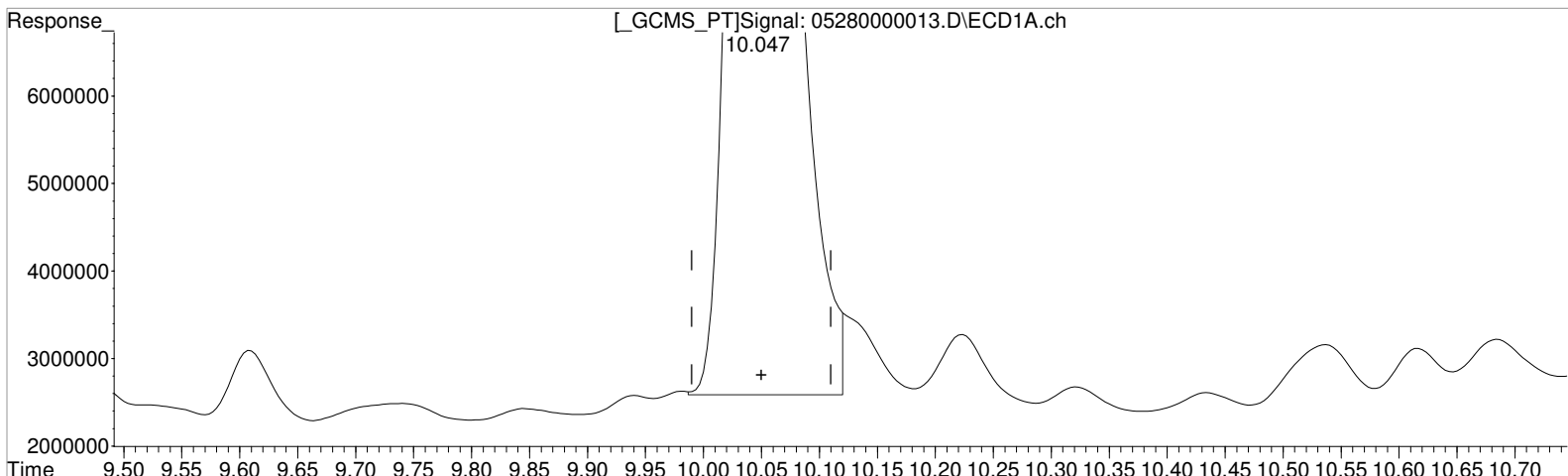
9.690min 72.448 ppb
response 32867704

(+) = Expected Retention Time

Data File : J:\GC34\DATA\052821-HB\05280000013.D Vial: 11
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 20:34:18 Operator: TAP
Sample : K2104776-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:35:04 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



(2) 2,4-Dichlorophenylacetic Acid (s)

10.047min 83.096 ppb m
response 66331239

Manual Integration:



After
Baseline/Shoulder
05/29/21

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

9.690min 72.448 ppb
response 32867704

(+) = Expected Retention Time

Validation Report

1st  05/29/21
2nd  05/29/21

Data File: J:\GC34\DATA\052821-HB\05280000014.D\
Lab ID: K2104776-006
RunType: N/A
Matrix: Sediment

Date Acquired: 5/28/21 20:58:15
Batch ID: 725573
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	

Sample Exceptions

Exception Categories	Result	Corrective Action
Preparation Hold Time	Prep Date/Time: 05/26/2021 1610 Hold Date/Time: 05/14/2021 2359	See narrative

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - Rtx-CLPesticides	2,4,5-TP	21		20	CCV+ND
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides	2,4,5-TP	26		20	CCV+ND

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *K* 05/29/21
2nd *FW* 05/29/21

Data File: J:\GC34\DATA\052821-HB\0528000014.D\	Instrument: K-GC-34
Acqu Date: 5/28/21 20:58:15	Vial: 12
Run Type: N/A	Dilution: 1
Lab ID: K2104776-006	Raw Units: ppb

Bottle ID: K2104776-006.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 4/30/21	Receive Date: 5/3/21

Analysis Lot: 725573	Prep Lot: 380155	Report Group: K2104776
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 5/26/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100249
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	10.05 ^{+0.01}	9.69	70330187	35346325	88.106	77.912	88	78	78	26 - 127	N

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	0.00	0.00	0	0	0.000 ^{ccv}	0.000	0U	0U	4.8 U	N
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	16 U	N

Prep Amount: 30.5680 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 49.90

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

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

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

Printed: 5/29/21 12:15

\\alprews001\starlims\LIMSReps\QuantValidation.rpt

Data File : J:\GC34\DATA\052821-HB\05280000014.D Vial: 12
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28-May-2021, 20:58:15 Operator: TAP
 Sample : K2104776-006 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 11:14:24 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 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

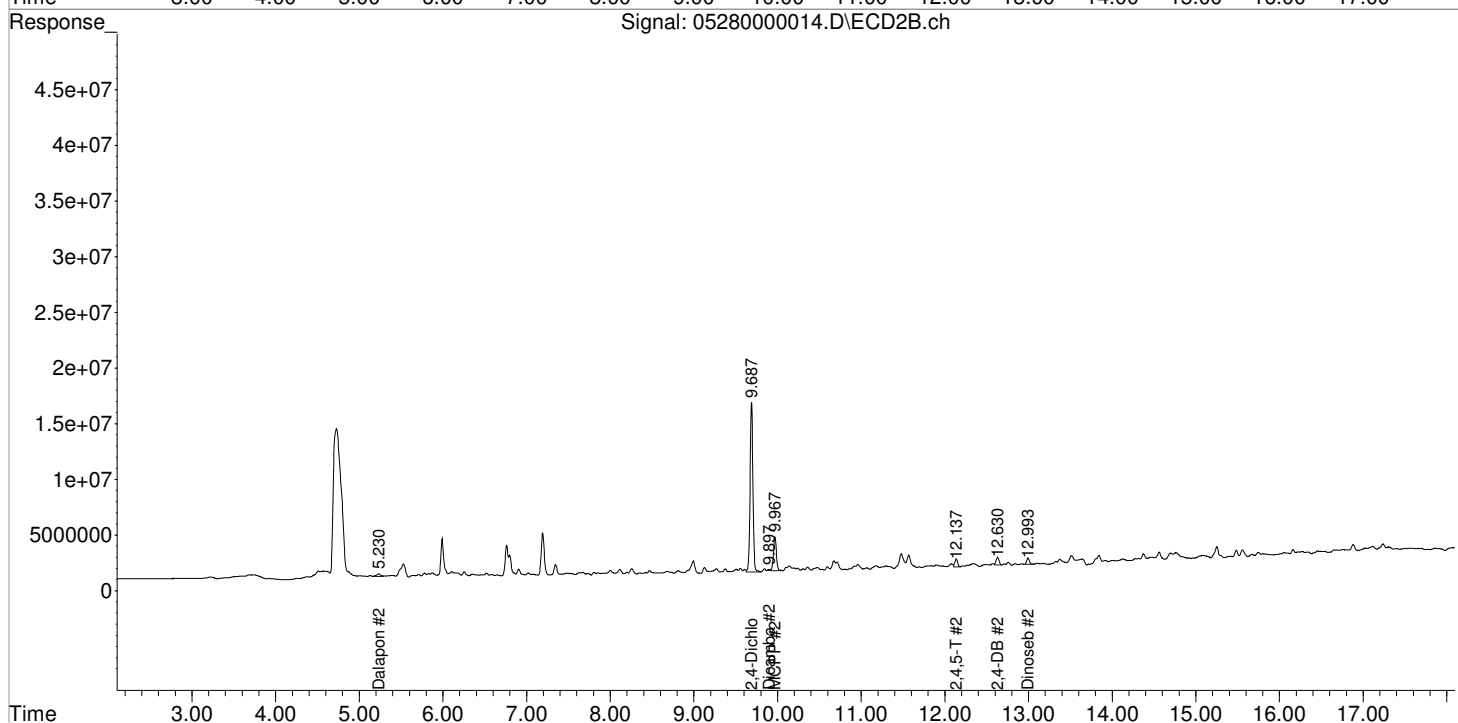
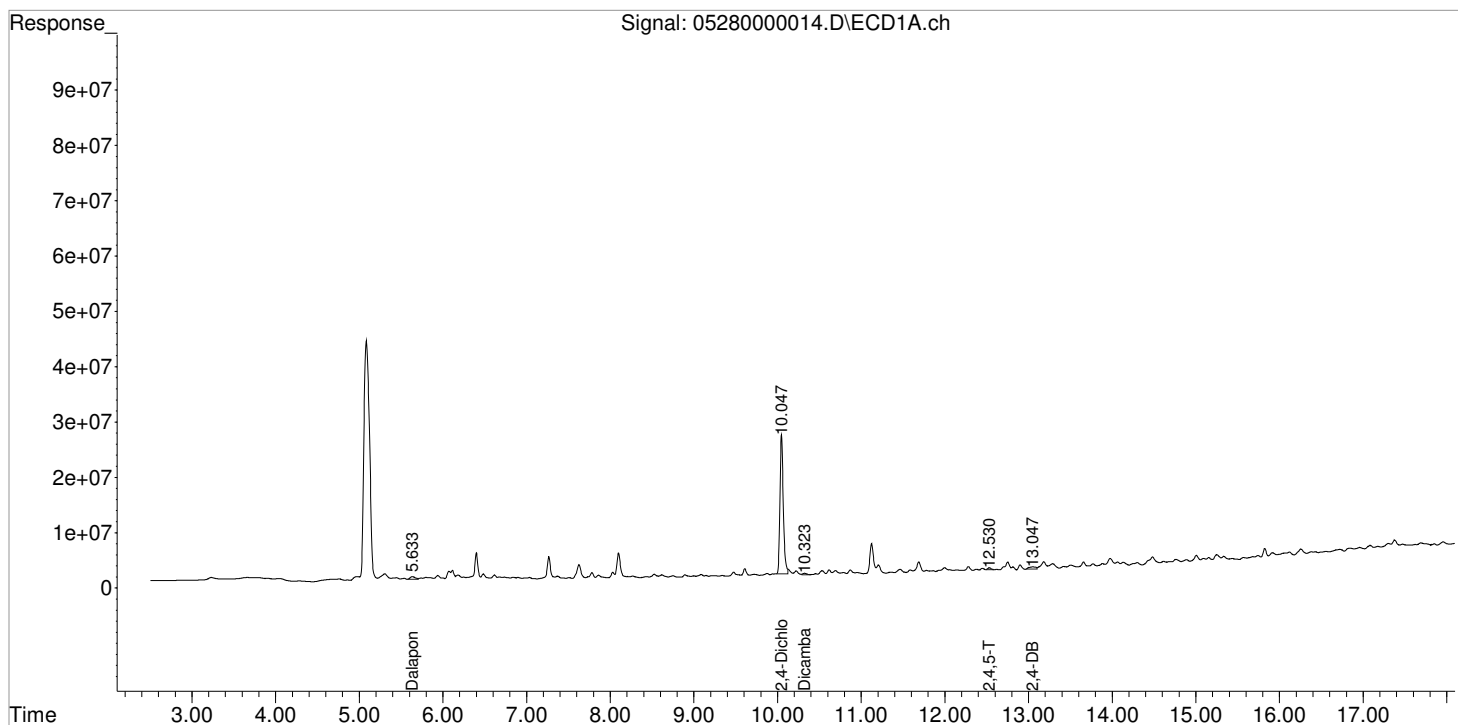
System Monitoring Compounds						
2) s 2,4-Dichl...	10.047	9.687	70330187	35346325	88.106m	77.912
Target Compounds						
1) m Dalapon	5.633f	5.230	2087414	815305	2.037	1.467 #
3) m Dicamba	10.323f	9.897	709680	166377	0.274	0.113 #
4) m MCPP	10.457	9.967	235644	7284816	N.D.	3787.928
5) m MCPA	10.613	0.000	1696814	0	N.D.	N.D.
6) m Dichloroprop	0.000	10.597	0	740399	N.D.	N.D.
7) m 2,4-D	0.000	0.000	0	0	N.D.	N.D. d
8) m 2,4,5-TP ...	0.000	0.000	0	0	N.D. d	N.D.
9) m 2,4,5-T	12.530f	12.137	912738	1581179	0.423	1.273 #
10) m 2,4-DB	13.047	12.630f	2449954	1645016	11.142	12.440
11) m Dinoseb	0.000	12.993f	0	1215617	N.D.	1.062 #

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

Data File : J:\GC34\DATA\052821-HB\05280000014.D Vial: 12
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 20:58:15 Operator: TAP
Sample : K2104776-006 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 11:14:24 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

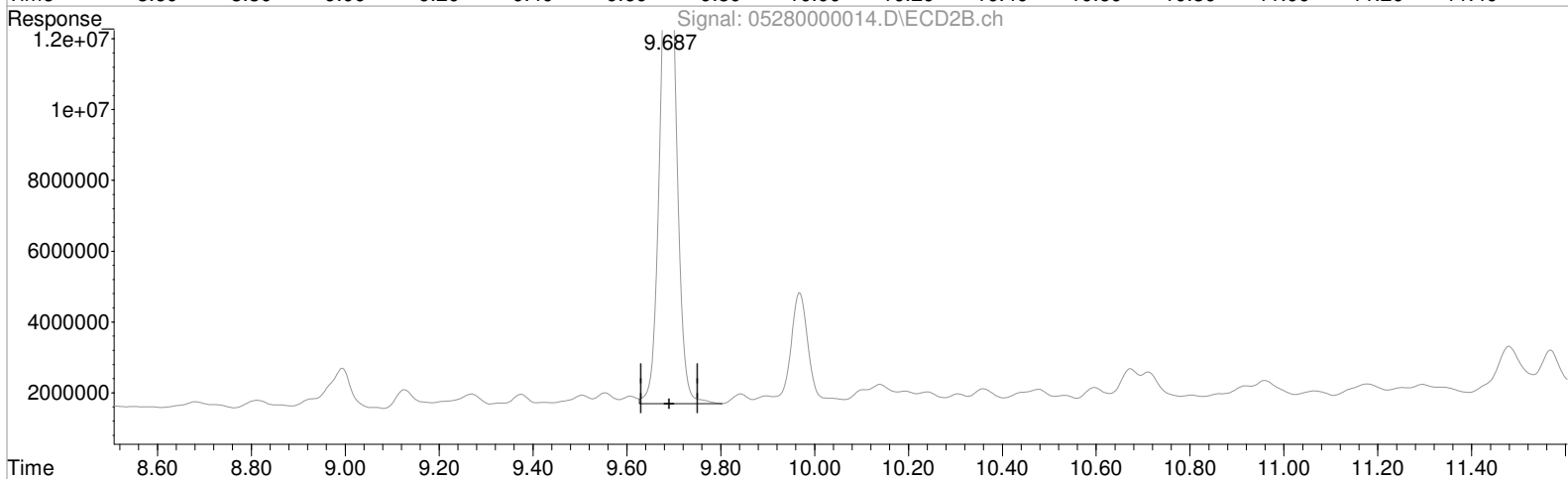
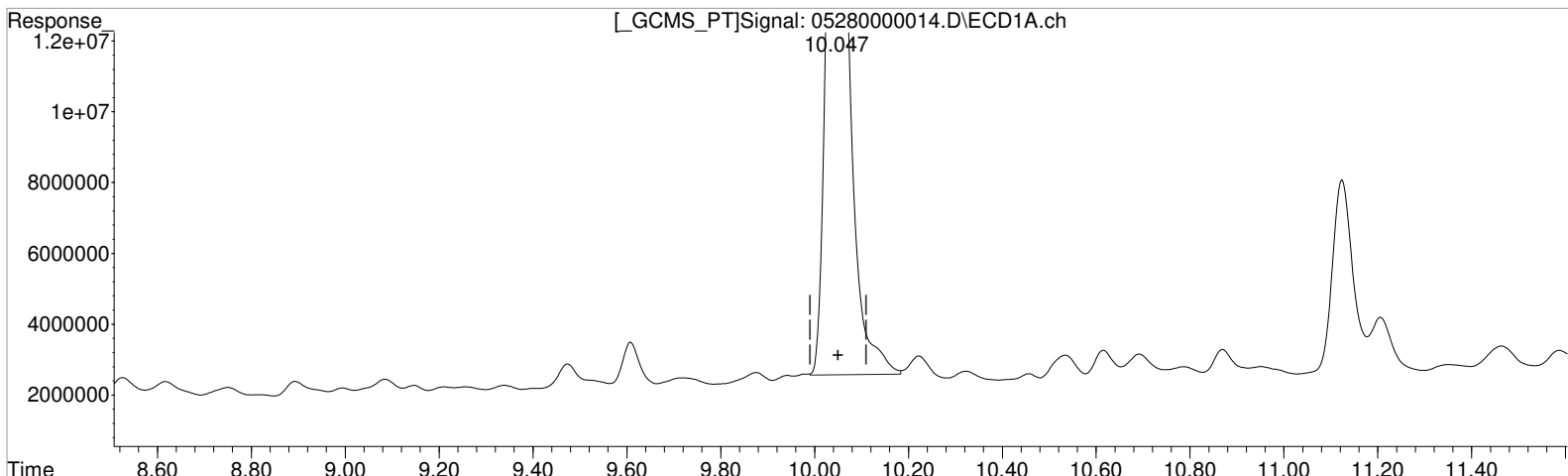
Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\052821-HB\05280000014.D Vial: 12
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 20:58:15 Operator: TAP
Sample : K2104776-006 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:35:07 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



(2) 2,4-Dichlorophenylacetic Acid (s)

10.047min 89.730 ppb

response 71626771

Manual Integration:

Before

05/29/21

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

9.687min 77.912 ppb

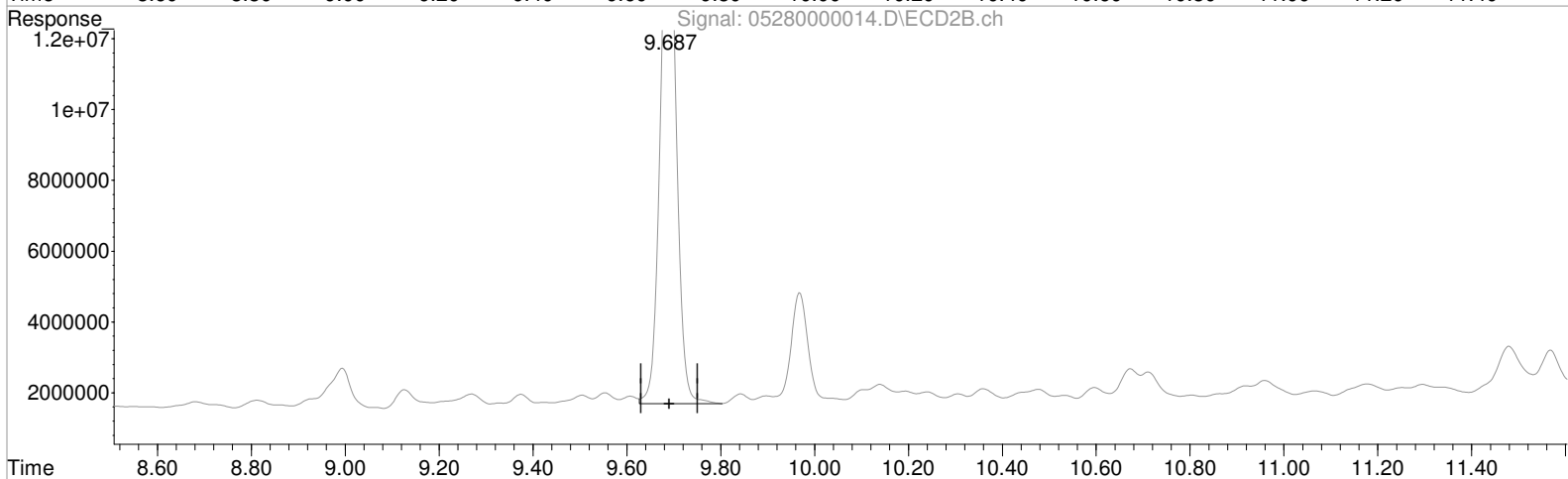
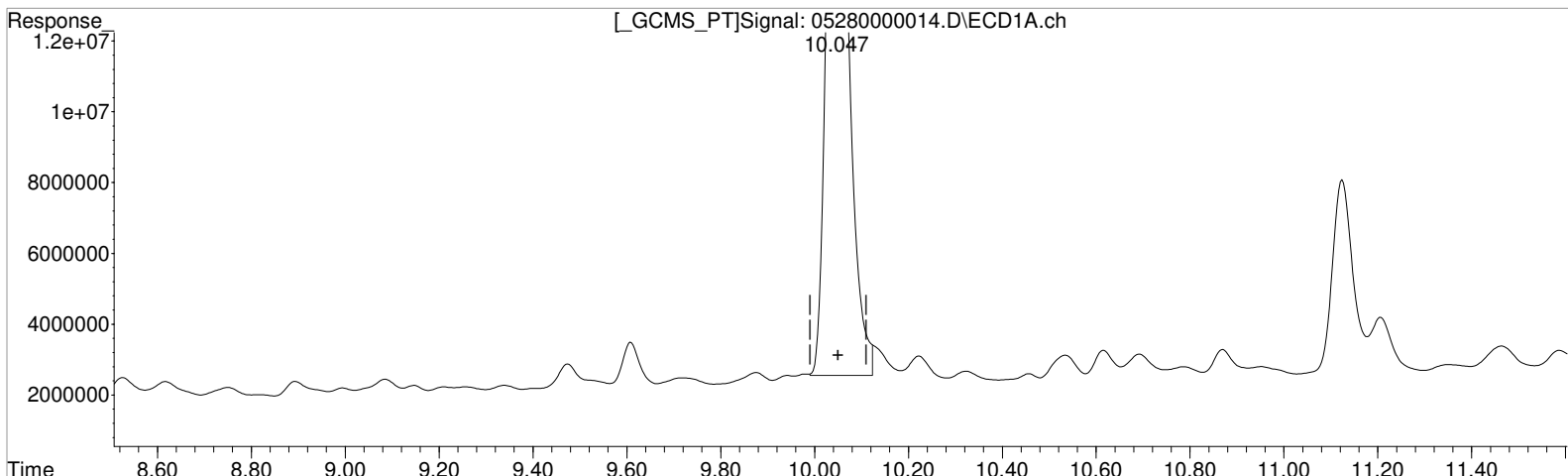
response 35346325

(+) = Expected Retention Time

Data File : J:\GC34\DATA\052821-HB\05280000014.D Vial: 12
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 20:58:15 Operator: TAP
Sample : K2104776-006 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:35:07 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



(2) 2,4-Dichlorophenylacetic Acid (s)

10.047min 88.106 ppb m

response 70330187

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

9.687min 77.912 ppb

response 35346325



Manual Integration:

After

Baseline/Shoulder

05/29/21

Validation Report

1st  05/29/21
2nd  05/29/21

Data File: J:\GC34\DATA\052821-HB\05280000015.D\
Lab ID: K2104776-007
RunType: N/A
Matrix: Sediment

Date Acquired: 5/28/21 21:22:05
Batch ID: 725573
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	

Sample Exceptions

Exception Categories	Result	Corrective Action
Preparation Hold Time	Prep Date/Time: 05/26/2021 1610 Hold Date/Time: 05/14/2021 2359	See narrative

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - Rtx-CLPesticides	2,4,5-TP	21		20	CCV+ND
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides	2,4,5-TP	26		20	CCV+ND

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *K* 05/29/21
2nd *FW* 05/29/21

Data File: J:\GC34\DATA\052821-HB\0528000015.D\	Instrument: K-GC-34
Acqu Date: 5/28/21 21:22:05	Vial: 13
Run Type: N/A	Dilution: 1
Lab ID: K2104776-007	Raw Units: ppb

Bottle ID: K2104776-007.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 4/30/21	Receive Date: 5/3/21

Analysis Lot: 725573	Prep Lot: 380155	Report Group: K2104776
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 5/26/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100249
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	10.04	9.69	70489033	34676625	88.305	76.436	88	76	76	26 - 127	N

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	0.00	0.00	0	0	0.000 ^{ccv}	0.000	0U	0U	4.4 U	N
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	15 U	N

Prep Amount: 30.0410 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 54.50

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: 5/29/21 12:15

\\alprews001\starlims\LIMSReps\QuantValidation.rpt

Data File : J:\GC34\DATA\052821-HB\05280000015.D Vial: 13
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28-May-2021, 21:22:05 Operator: TAP
 Sample : K2104776-007 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 11:16:30 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 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...	10.043	9.687	70489033	34676625	88.305m	76.436m
Target Compounds						
1) m Dalapon	5.630f	5.230	2187707	884753	2.134	1.592 #
3) m Dicamba	10.317	9.900	770217	308332	0.298	0.210 #
4) m MCPP	0.000	9.967	0	6593128	N.D.	3357.128 #
5) m MCPA	10.613	0.000	3461494	0	N.D.	N.D.
6) m Dichloroprop	0.000	10.593	0	773813	N.D.	N.D.
7) m 2,4-D	0.000	0.000	0	0	N.D.	N.D. d
8) m 2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D. d
9) m 2,4,5-T	12.530f	12.137	519845	1904764	0.241	1.533 #
10) m 2,4-DB	13.003f	12.627f	3970849	1723867	18.058	13.036 #
11) m Dinoseb	14.283	12.993f	12232600	1673402	6.293	1.461 #

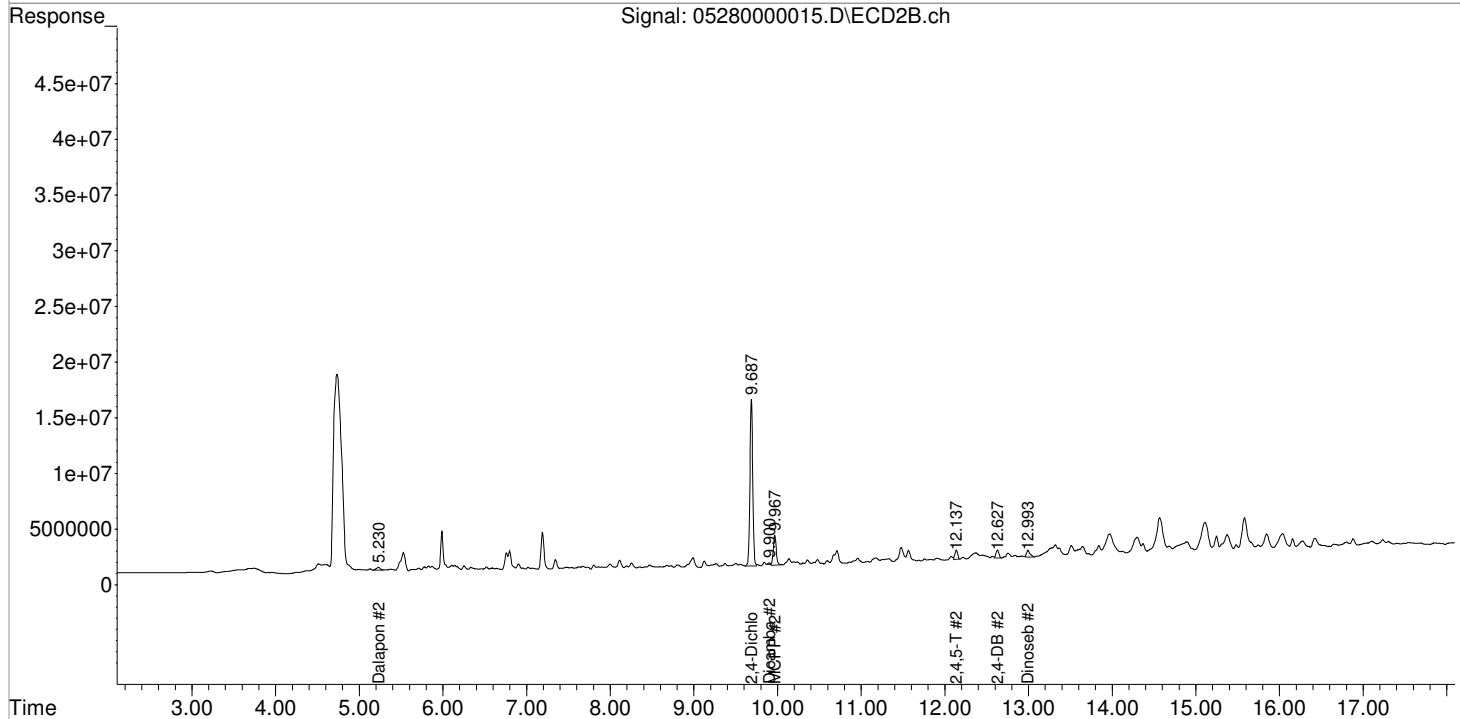
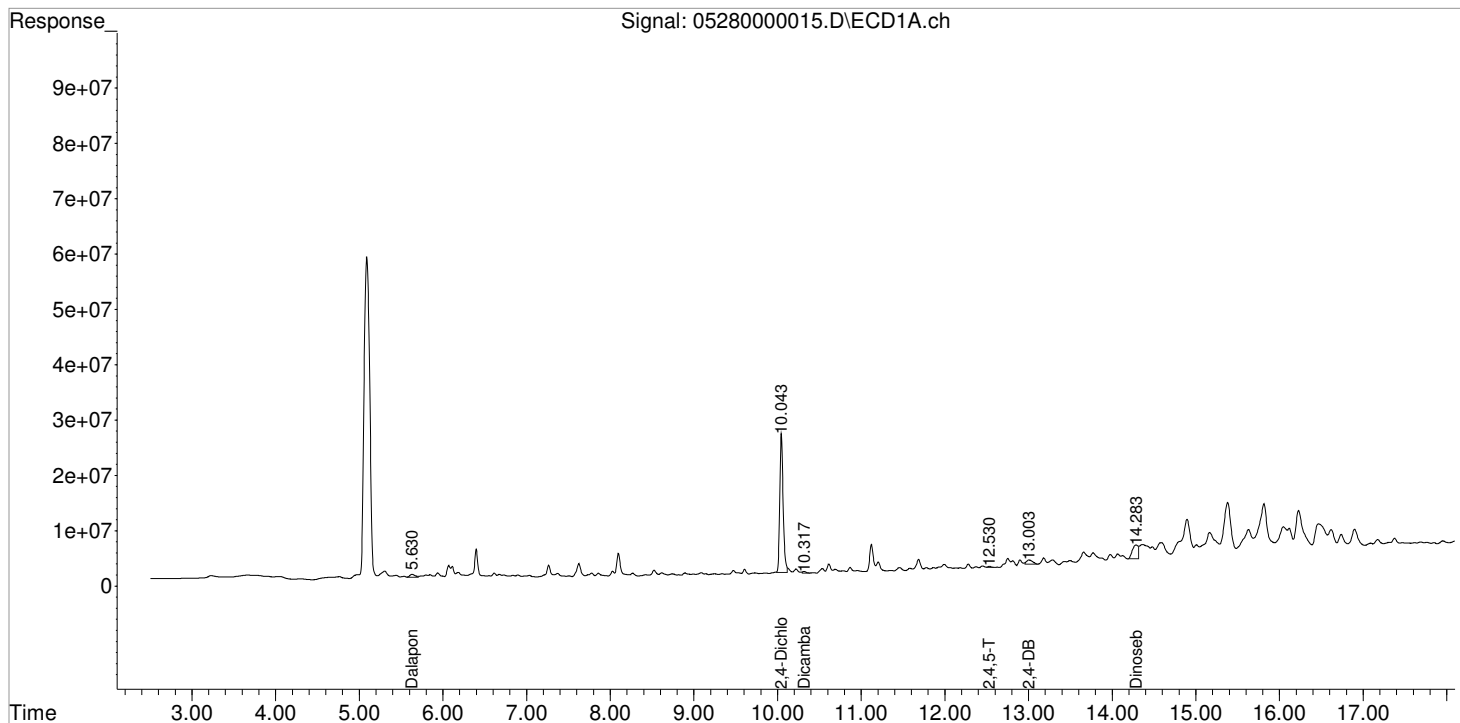
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\052821-HB\05280000015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 21:22:05
Sample : K2104776-007
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 11:16:30 2021
Quant Results File: 050621_8151.RES

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

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

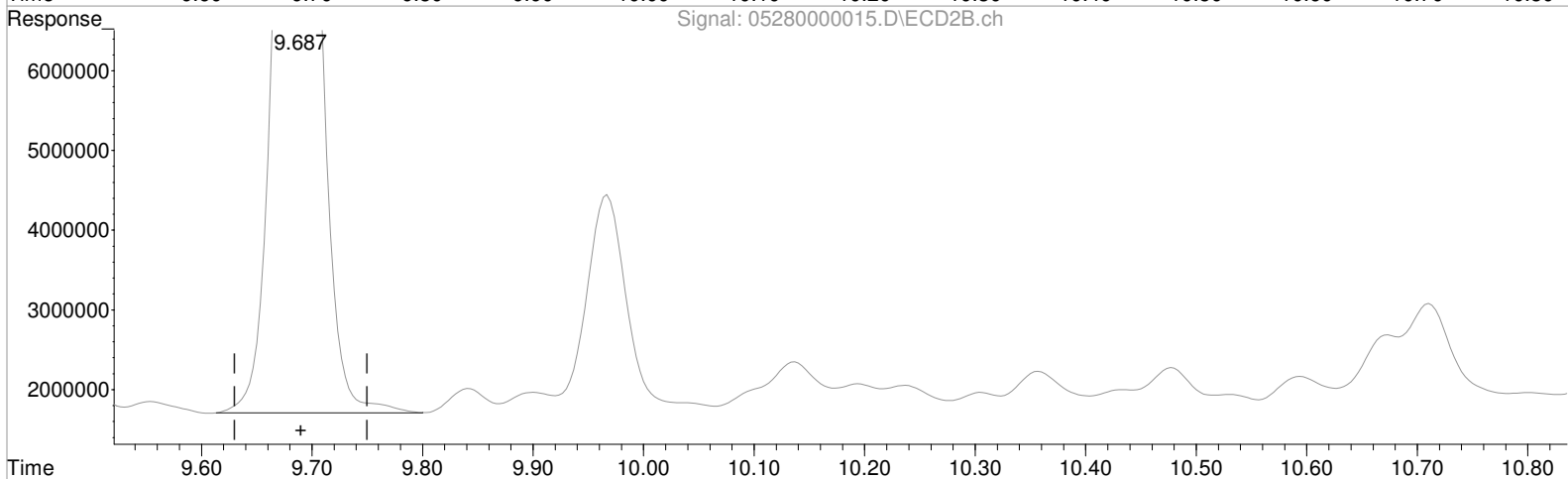
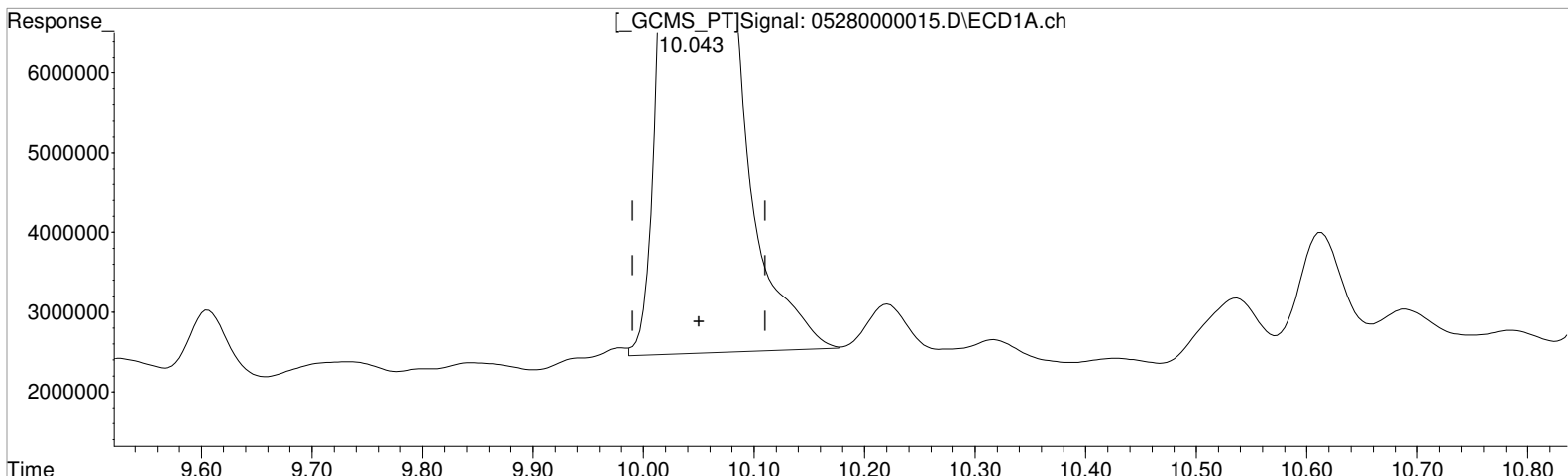
Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\052821-HB\05280000015.D Vial: 13
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 21:22:05 Operator: TAP
Sample : K2104776-007 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:35:10 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



(2) 2,4-Dichlorophenylacetic Acid (s)

10.043min 89.694 ppb

response 71598146

Manual Integration:

Before

05/29/21

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

9.687min 76.332 ppb

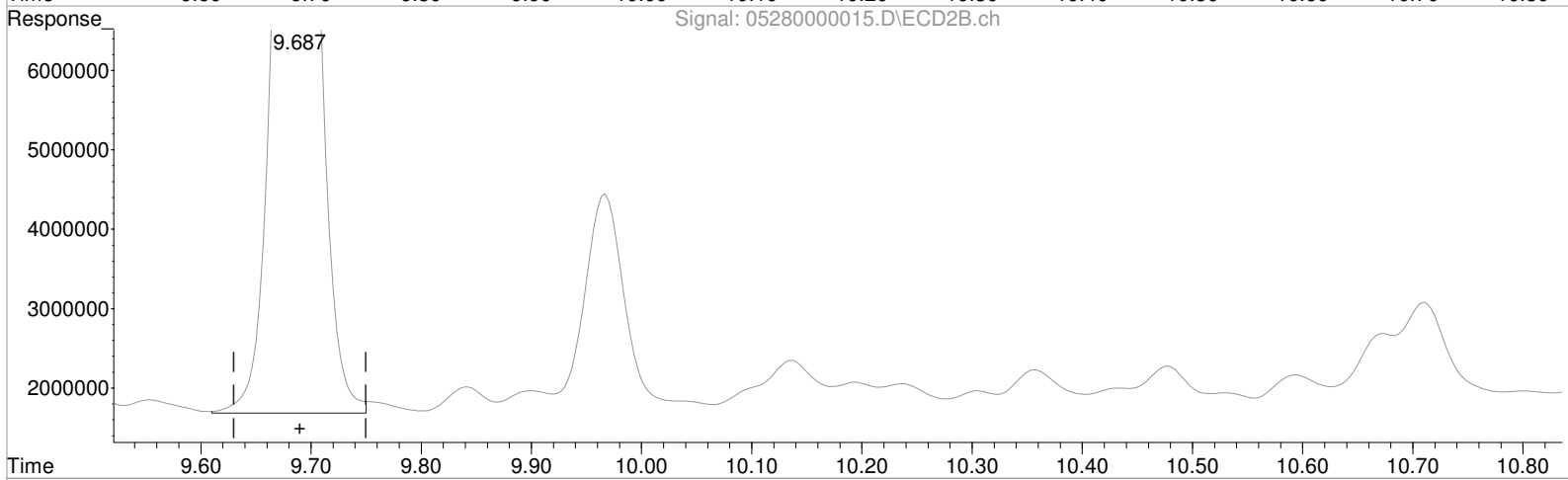
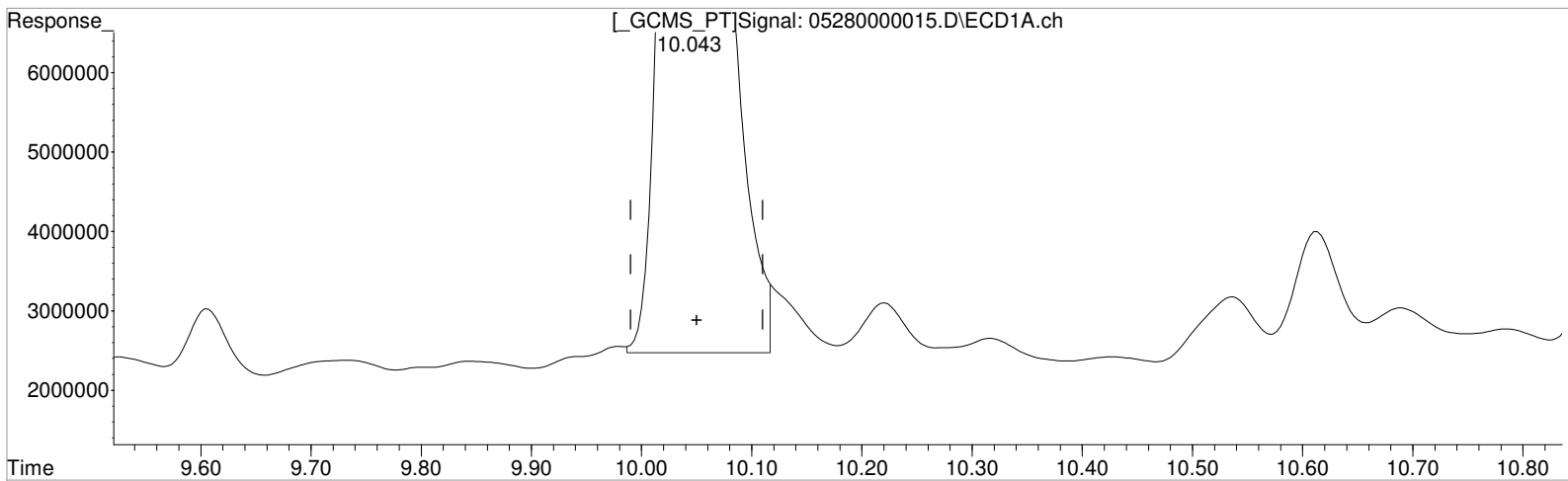
response 34629344

(+) = Expected Retention Time

Data File : J:\GC34\DATA\052821-HB\05280000015.D Vial: 13
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 21:22:05 Operator: TAP
Sample : K2104776-007 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:35:10 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



(2) 2,4-Dichlorophenylacetic Acid (s)

10.043min 88.305 ppb m
response 70489033

Manual Integration:

After
Baseline/Shoulder
05/29/21

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

9.687min 76.436 ppb m
response 34676625

(+) = Expected Retention Time

Validation Report

1st 05/29/21
2nd 05/29/21

Data File: J:\GC34\DATA\052821-HB\05280000016.D\
Lab ID: K2104776-008
RunType: N/A
Matrix: Sediment

Date Acquired: 5/28/21 21:45:54
Batch ID: 725573
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	

Sample Exceptions

Exception Categories	Result	Corrective Action
Preparation Hold Time	Prep Date/Time: 05/26/2021 1610 Hold Date/Time: 05/14/2021 2359	See narrative

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - Rtx-CLPesticides	2,4,5-TP	21		20	CCV+ND
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides	2,4,5-TP	26		20	CCV+ND

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *SW* 05/29/21
2nd *SW* 05/29/21

Data File: J:\GC34\DATA\052821-HB\0528000016.D\	Instrument: K-GC-34
Acqu Date: 5/28/21 21:45:54	Vial: 14
Run Type: N/A	Dilution: 1
Lab ID: K2104776-008	Raw Units: ppb

Bottle ID: K2104776-008.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 4/30/21	Receive Date: 5/3/21

Analysis Lot: 725573	Prep Lot: 380155	Report Group: K2104776
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 5/26/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100249
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	10.04	9.69	68306606	33646013	85.571	74.164	86	74	74	26 - 127	N

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	0.00	11.76 ^{+0.01}	0	260887	0.000 ^{CCV}	0.155	0U	0.46U	4.4 U	N
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	14 U	N

Prep Amount: 30.6670 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 54.60

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

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

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

Printed: 5/29/21 12:15

\\alprews001\starlims\LIMSReps\QuantValidation.rpt

Data File : J:\GC34\DATA\052821-HB\05280000016.D Vial: 14
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28-May-2021, 21:45:54 Operator: TAP
 Sample : K2104776-008 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 11:17:29 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 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

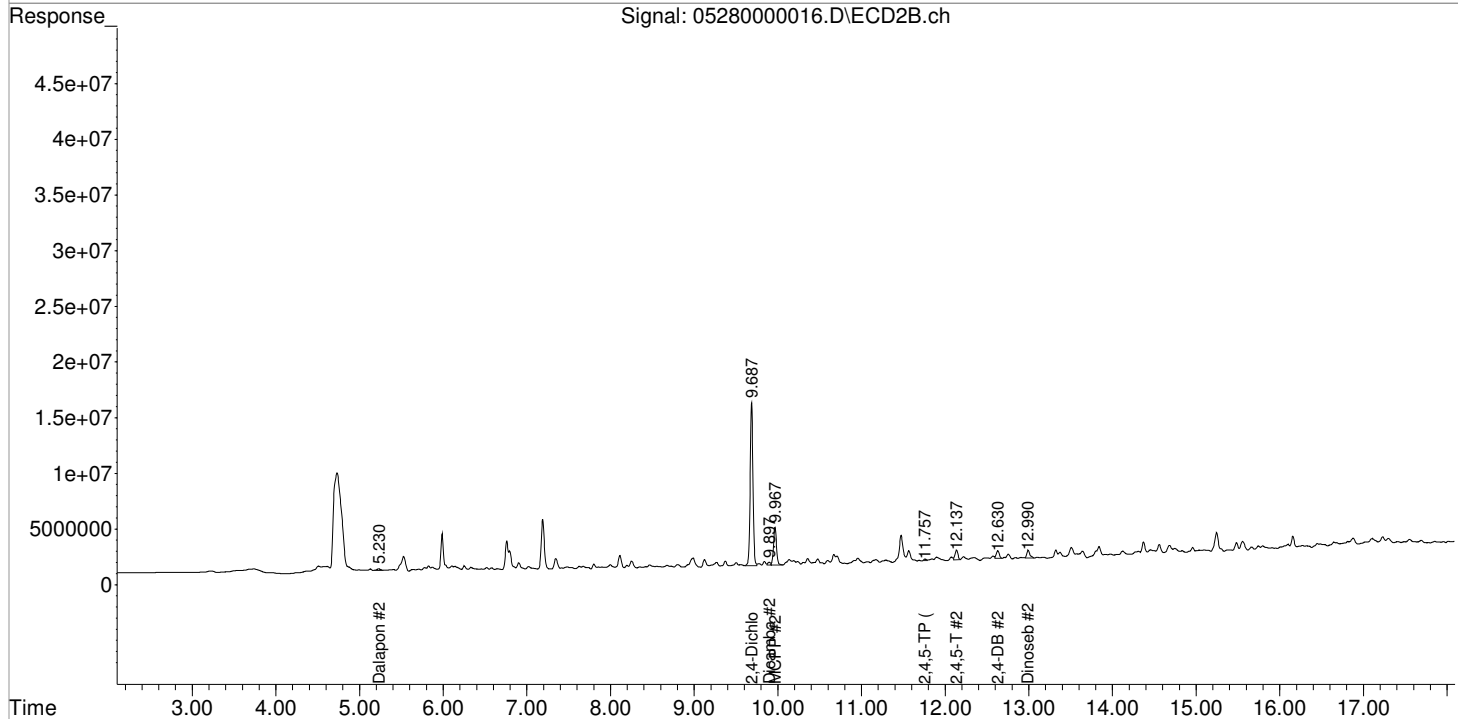
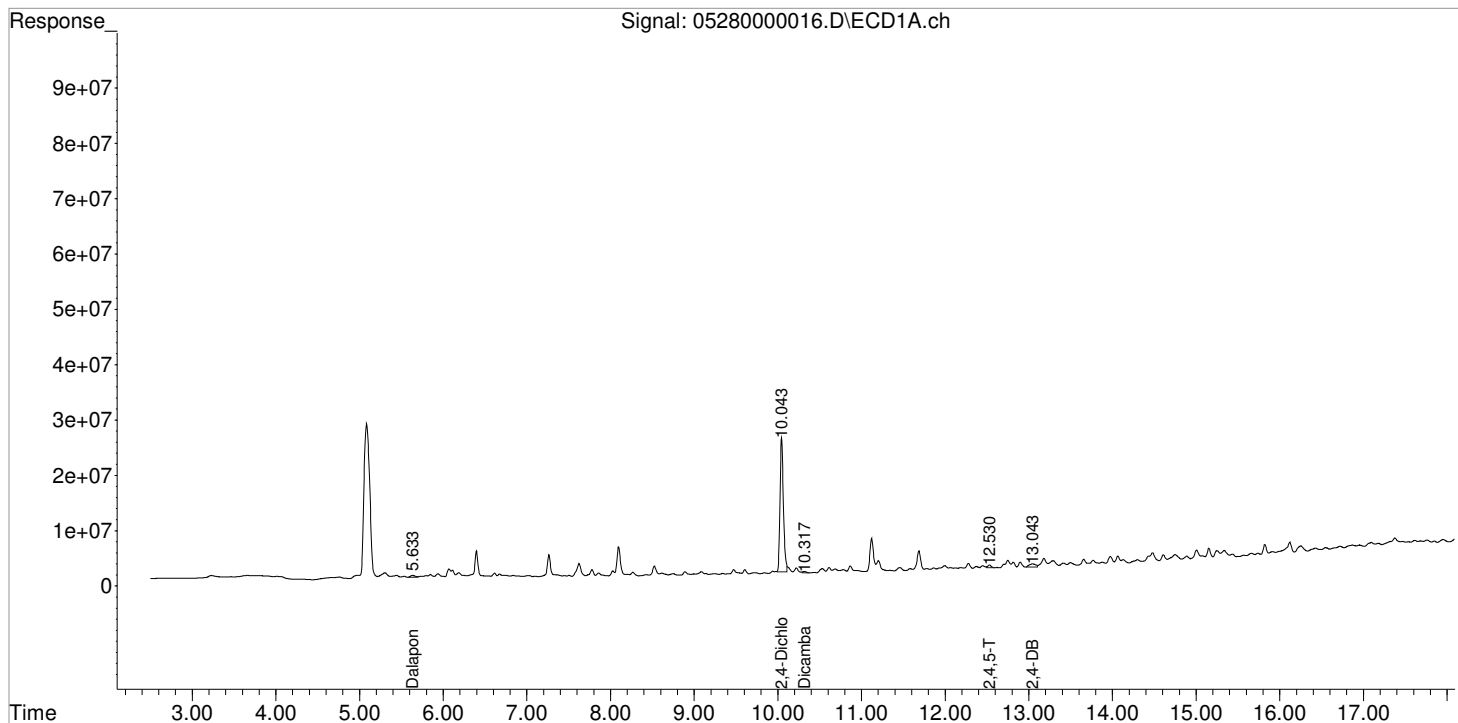
Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	10.043	9.687	68306606	33646013	85.571m	74.164
Target Compounds						
1) m Dalapon	5.633f	5.230	1423033	495951	1.388	0.892 #
3) m Dicamba	10.317	9.897	678678	570350	0.262	0.388 #
4) m MCPP	0.000	9.967	0	8228522	N.D.	4375.692 #
5) m MCPA	10.610	10.237	1711529	396054	N.D.	N.D.
6) m Dichloroprop	0.000	10.597	0	787968	N.D.	N.D.
7) m 2,4-D	0.000	0.000	0	0	N.D.	N.D. d
8) m 2,4,5-TP ...	0.000	11.757	0	260887	N.D.	0.155 #
9) m 2,4,5-T	12.530f	12.137	1276775	2089452	0.591	1.682 #
10) m 2,4-DB	13.043	12.630f	3146076	1735107	14.307	13.121
11) m Dinoseb	0.000	12.990f	0	1854386	N.D.	1.619 #

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

Data File : J:\GC34\DATA\052821-HB\05280000016.D Vial: 14
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 21:45:54 Operator: TAP
Sample : K2104776-008 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 11:17:29 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

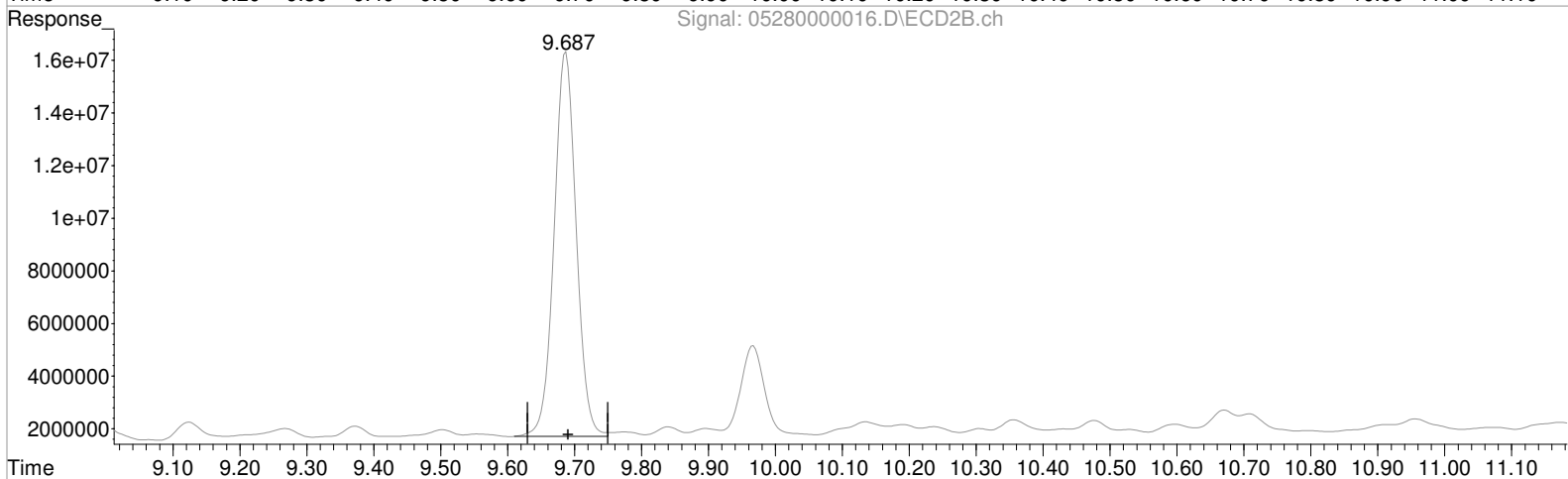
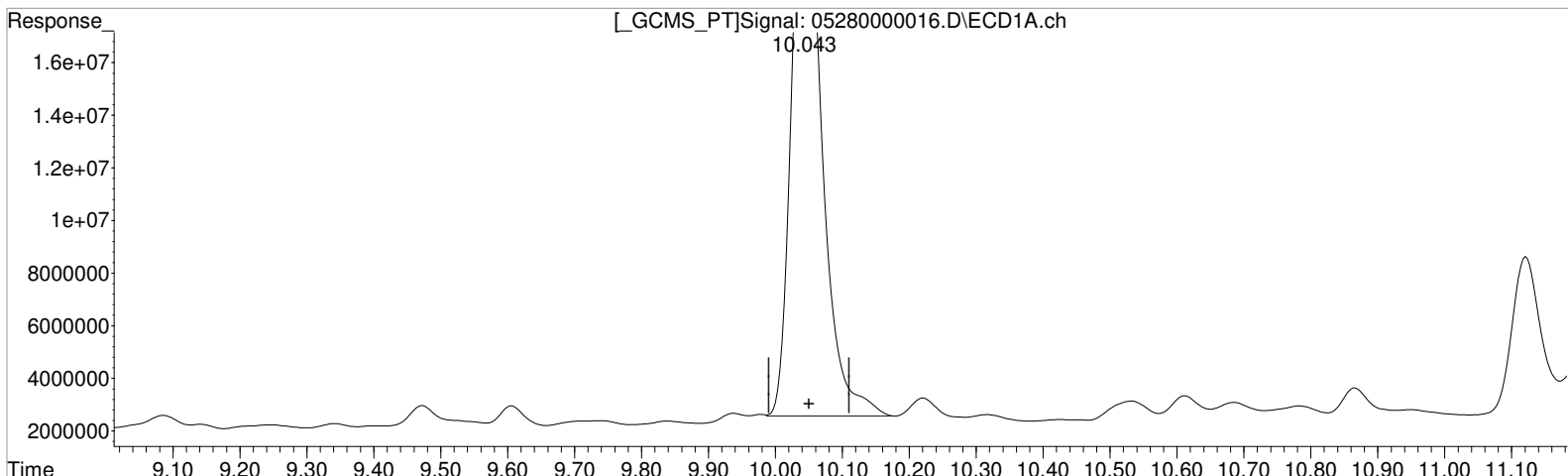
Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\052821-HB\05280000016.D Vial: 14
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 21:45:54 Operator: TAP
Sample : K2104776-008 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:35:13 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



(2) 2,4-Dichlorophenylacetic Acid (s)

10.043min 87.830 ppb

response 70109602

Manual Integration:

Before

05/29/21

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

9.687min 74.164 ppb

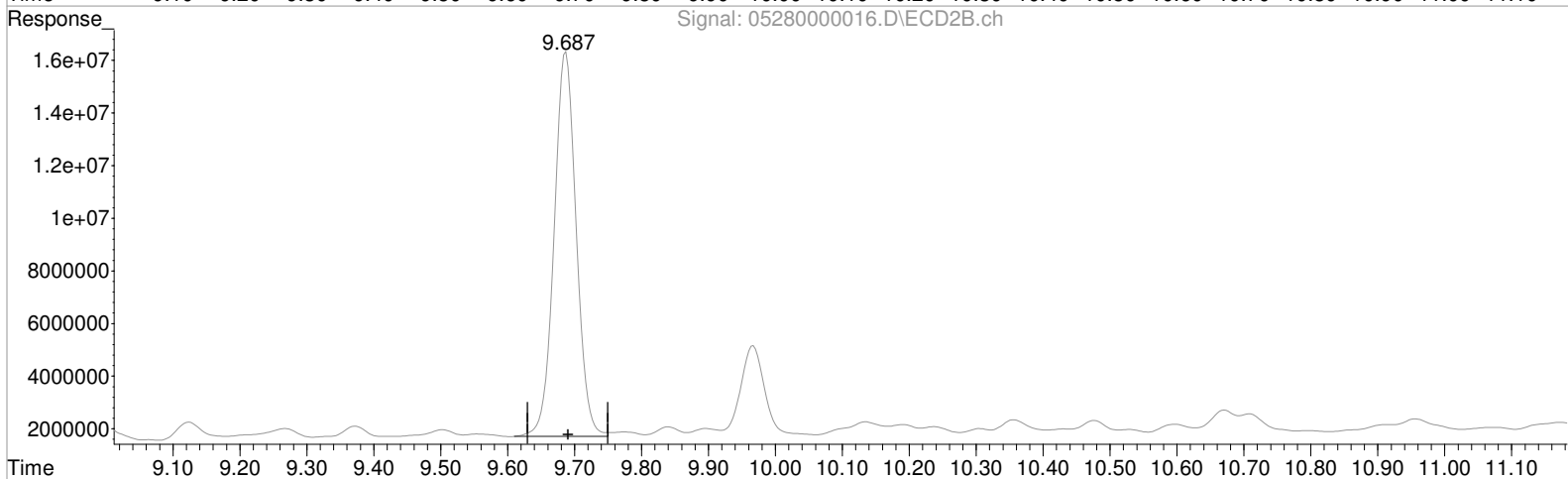
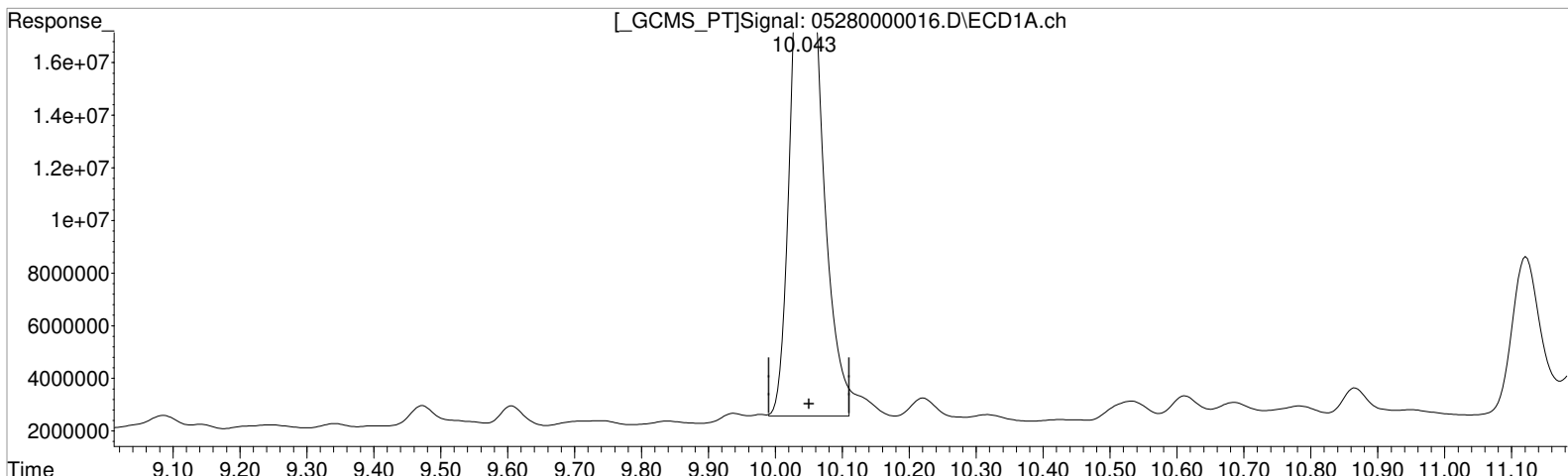
response 33646013

(+) = Expected Retention Time

Data File : J:\GC34\DATA\052821-HB\05280000016.D Vial: 14
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 21:45:54 Operator: TAP
Sample : K2104776-008 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:35:13 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



(2) 2,4-Dichlorophenylacetic Acid (s)

10.043min 85.571 ppb m
response 68306606

Manual Integration:



After
Baseline/Shoulder
05/29/21

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

9.687min 74.164 ppb
response 33646013

(+) = Expected Retention Time

Validation Report

1st  05/29/21
2nd  05/29/21

Data File: J:\GC34\DATA\052821-HB\05280000019.D\
Lab ID: K2104776-009
RunType: N/A
Matrix: Sediment

Date Acquired: 5/28/21 22:57:27
Batch ID: 725573
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	

Sample Exceptions

Exception Categories	Result	Corrective Action
Preparation Hold Time	Prep Date/Time: 05/26/2021 1610 Hold Date/Time: 05/14/2021 2359	See narrative

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - Rtx-CLPesticides	2,4,5-TP	26		20	CCV+ND
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides	2,4,5-TP	27		20	CCV+ND

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *SW* 05/29/21
2nd *SW* 05/29/21

Data File: J:\GC34\DATA\052821-HB\0528000019.D\	Instrument: K-GC-34
Acqu Date: 5/28/21 22:57:27	Vial: 15
Run Type: N/A	Dilution: 1
Lab ID: K2104776-009	Raw Units: ppb

Bottle ID: K2104776-009.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 4/30/21	Receive Date: 5/3/21

Analysis Lot: 725573	Prep Lot: 380155	Report Group: K2104776
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 5/26/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100249
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	10.04	9.69	63169548	29860140	79.136	65.819	79	66	66	26 - 127	N

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	0.00	0.00	0	0	0.000 ^{ccv}	0.000	0U	0U	4.2 U	N
2,4-D	11.28 ^{+0.02}	10.90 ^{+0.01}	1887772	859064	2.825	2.122	8.2U	6.2U	14 U	N

Prep Amount: 30.1650 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 56.90

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

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

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

Printed: 5/29/21 12:15

\\alprews001\starlims\LIMSReps\QuantValidation.rpt

Data File : J:\GC34\DATA\052821-HB\05280000019.D Vial: 15
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28-May-2021, 22:57:27 Operator: TAP
 Sample : K2104776-009 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 11:23:21 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 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

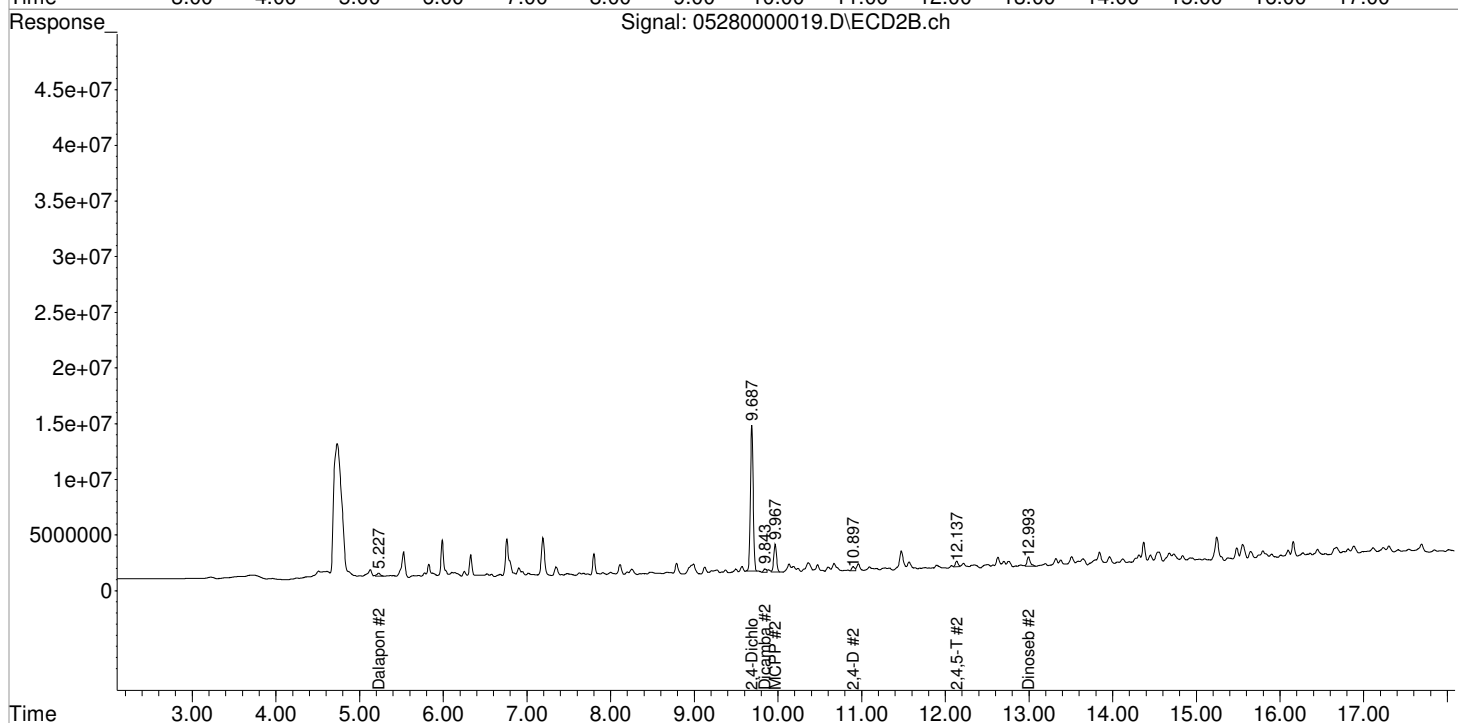
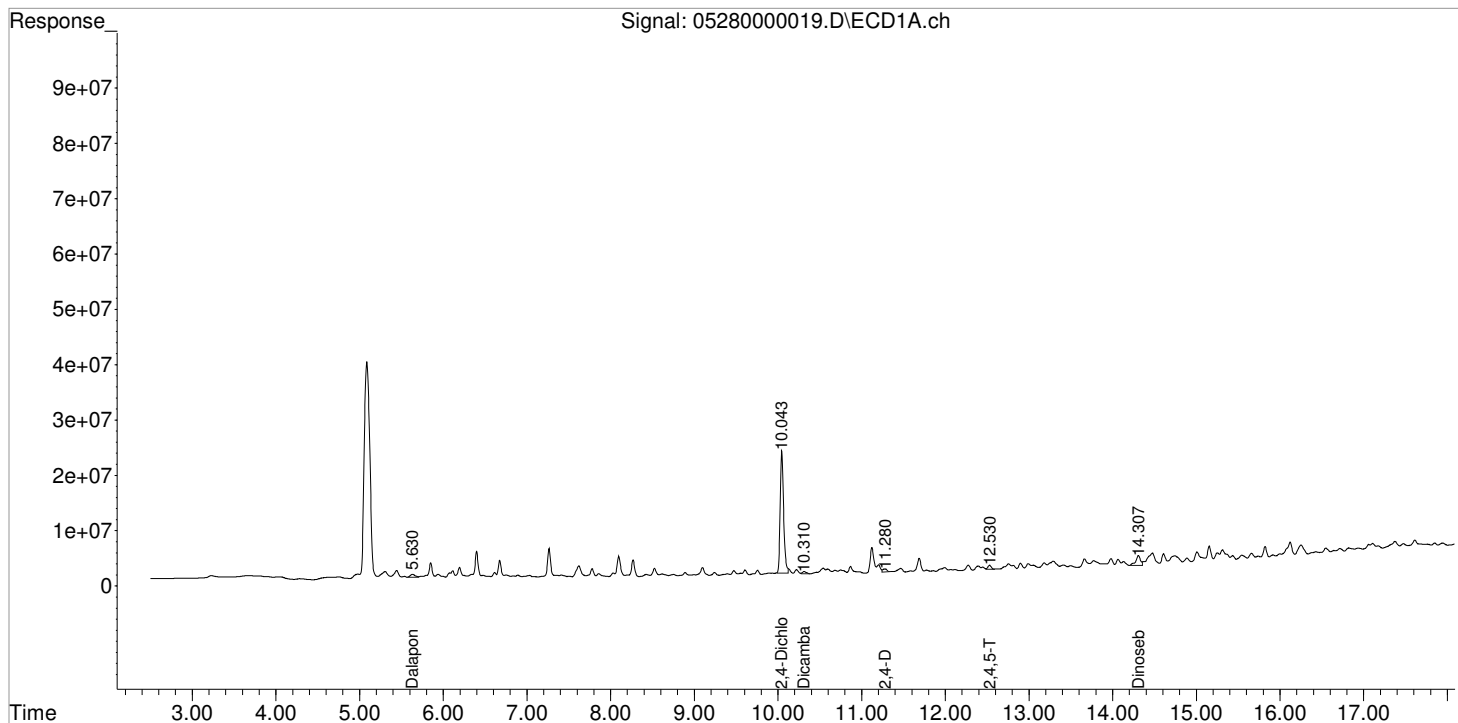
Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	10.043	9.687	63169548	29860140	79.136m	65.819
Target Compounds						
1) m Dalapon	5.630f	5.227	2202182	725818	2.149	1.306 #
3) m Dicamba	10.310	9.843f	1294176	742601	0.500	0.505
4) m MCPP	10.463	9.967	758897	5892872	N.D.	2920.991
5) m MCPA	10.593	10.187	1194212	497440	N.D.	N.D.
6) m Dichloroprop	0.000	10.600	0	1047808	N.D.	N.D.
7) m 2,4-D	11.280	10.897	1887772	859064	2.825	2.122
8) m 2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D. d
9) m 2,4,5-T	12.530f	12.137	1973069	1172261	0.914	0.943
10) m 2,4-DB	0.000	0.000	0	0	N.D.	N.D. d
11) m Dinoseb	14.307	12.993f	6853404	2324068	3.526	2.030 #

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

Data File : J:\GC34\DATA\052821-HB\05280000019.D Vial: 15
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28-May-2021, 22:57:27 Operator: TAP
 Sample : K2104776-009 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 11:23:21 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

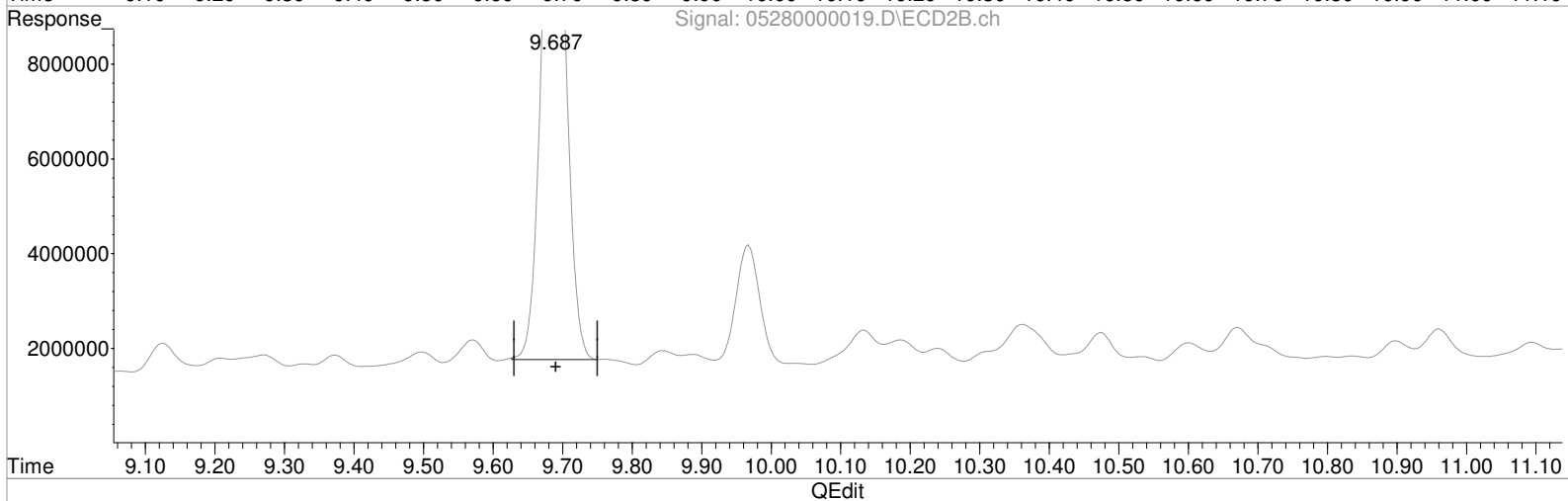
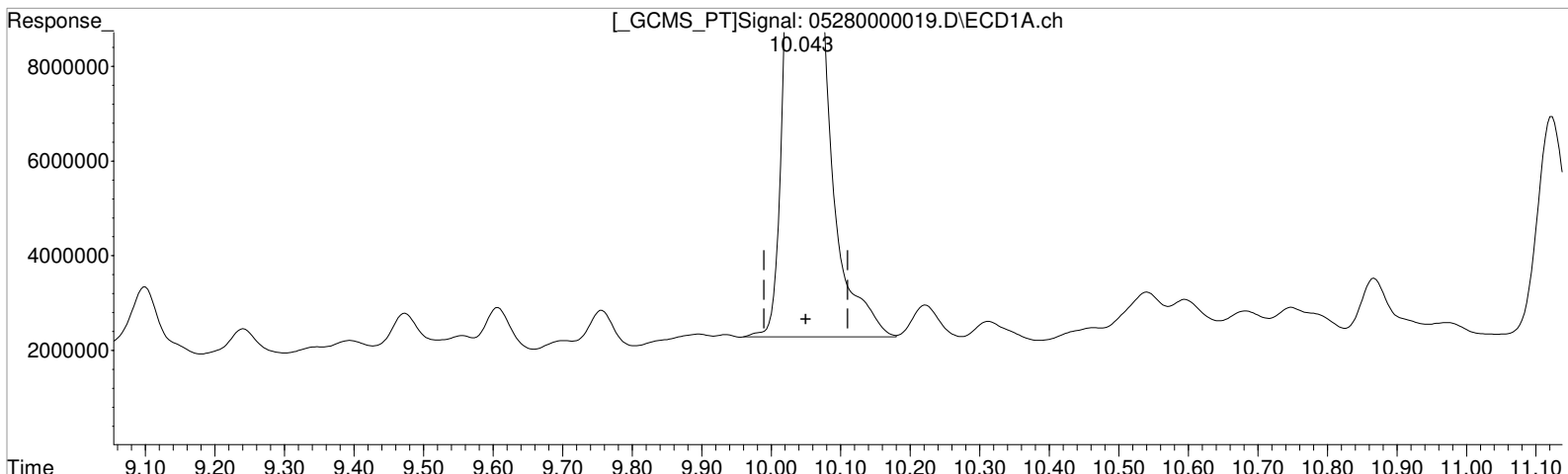
Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\052821-HB\05280000019.D Vial: 15
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 22:57:27 Operator: TAP
Sample : K2104776-009 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:35:22 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



(2) 2,4-Dichlorophenylacetic Acid (s)

10.043min 81.346 ppb

response 64934314

Manual Integration:

Before

05/29/21

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

9.687min 65.819 ppb

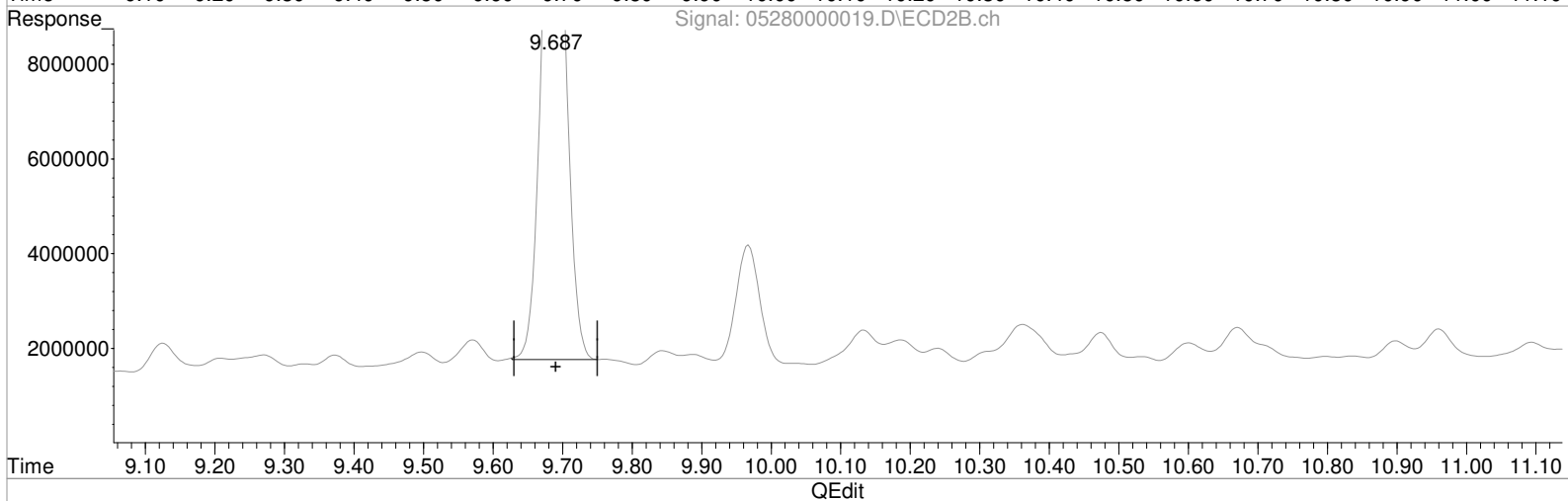
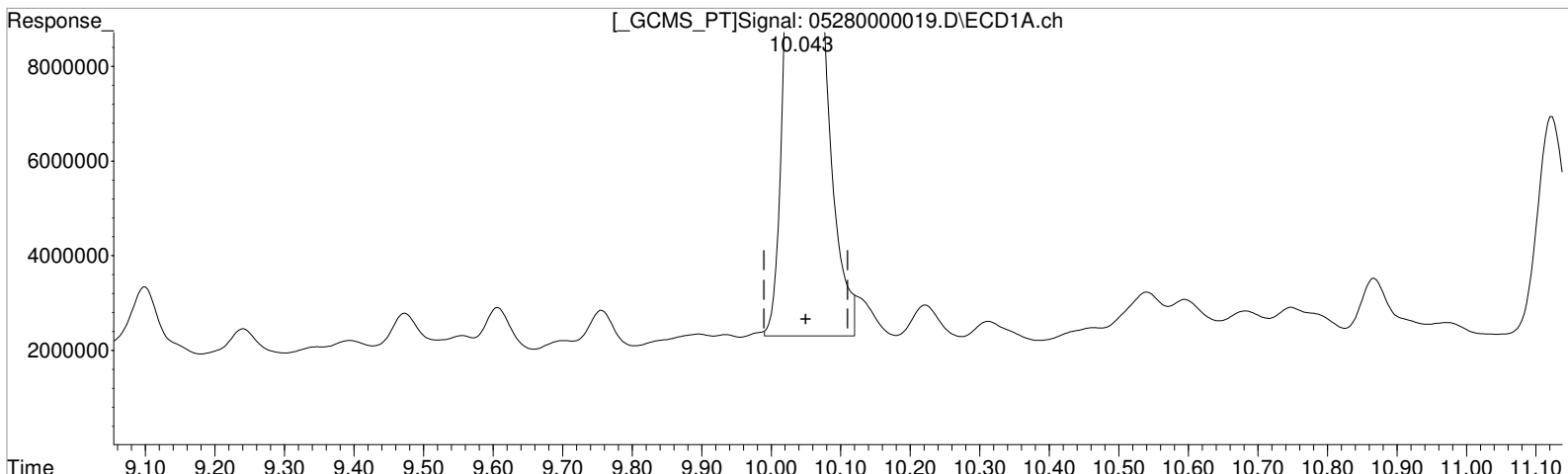
response 29860140

(+) = Expected Retention Time

Data File : J:\GC34\DATA\052821-HB\05280000019.D Vial: 15
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 22:57:27 Operator: TAP
Sample : K2104776-009 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:35:22 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



(2) 2,4-Dichlorophenylacetic Acid (s)

10.043min 79.136 ppb m
response 63169548

Manual Integration:

After
Baseline/Shoulder
05/29/21

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

9.687min 65.819 ppb
response 29860140

(+) = Expected Retention Time

Validation Report

1st *[Signature]* 05/29/21
 2nd *[Signature]* 05/29/21

Data File: J:\GC34\DATA\052821-HB\0528000020.D\
Lab ID: K2104776-010
RunType: N/A
Matrix: Sediment

Date Acquired: 5/28/21 23:21:15
Batch ID: 725573
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	

Sample Exceptions

Exception Categories	Result	Corrective Action
Preparation Hold Time	Prep Date/Time: 05/26/2021 1610 Hold Date/Time: 05/14/2021 2359	See narrative

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - Rtx-CLPesticides	2,4,5-TP	26		20	CCV+ND
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides	2,4,5-TP	27		20	CCV+ND

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *K* 05/29/21
2nd *FW* 05/29/21

Data File: J:\GC34\DATA\052821-HB\0528000020.D\	Instrument: K-GC-34
Acqu Date: 5/28/21 23:21:15	Vial: 16
Run Type: N/A	Dilution: 1
Lab ID: K2104776-010	Raw Units: ppb

Bottle ID: K2104776-010.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 4/30/21	Receive Date: 5/3/21

Analysis Lot: 725573	Prep Lot: 380155	Report Group: K2104776
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 5/26/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100249
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	10.05 ^{+0.01}	9.69	77038619	37212046	96.510	82.024	97	82	82	26 - 127	N

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	0.00	0.00	0	0	0.000 ^{ccv}	0.000	0U	0U	4.1 U	N
2,4-D	11.30 ^{+0.04}	10.90 ^{+0.01}	4570894	980755	6.841	2.423	19J	6.9U	14 U	N

Prep Amount: 30.2810 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 58.00

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: 5/29/21 12:15

\\alprews001\starlims\LIMSReps\QuantValidation.rpt

Data File : J:\GC34\DATA\052821-HB\05280000020.D Vial: 16
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28-May-2021, 23:21:15 Operator: TAP
 Sample : K2104776-010 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 11:25:57 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 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...	10.047	9.687	77038619	37212046	96.510	82.024
Target Compounds						
1) m Dalapon	5.630f	5.227	1353856	541835	1.321	0.975 #
3) m Dicamba	10.313	9.893	1273602	250627	0.492	0.171 #
4) m MCPP	0.000	9.967	0	7507929	N.D.	3926.889 #
5) m MCPA	10.600	10.187	722151	518655	N.D.	N.D.
6) m Dichloroprop	0.000	10.597	0	901335	N.D.	N.D.
7) m 2,4-D	11.300	10.903	4570894	980755	6.841	2.423m#
8) m 2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D. d
9) m 2,4,5-T	12.530f	12.137	2383594	1883672	1.104	1.516 #
10) m 2,4-DB	0.000	12.633f	0	1915992	N.D.	14.489 #
11) m Dinoseb	14.300	12.997f	2560510	3832428	1.317	3.347 #

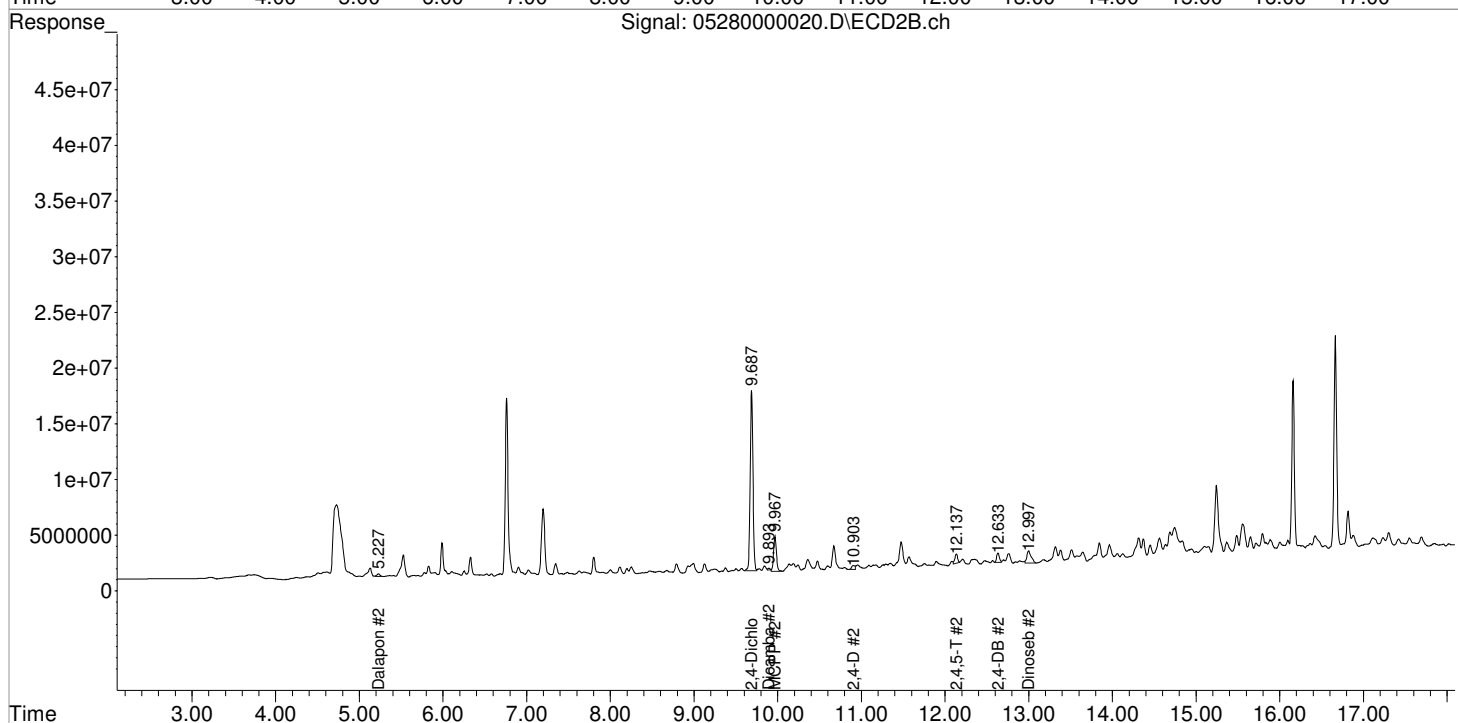
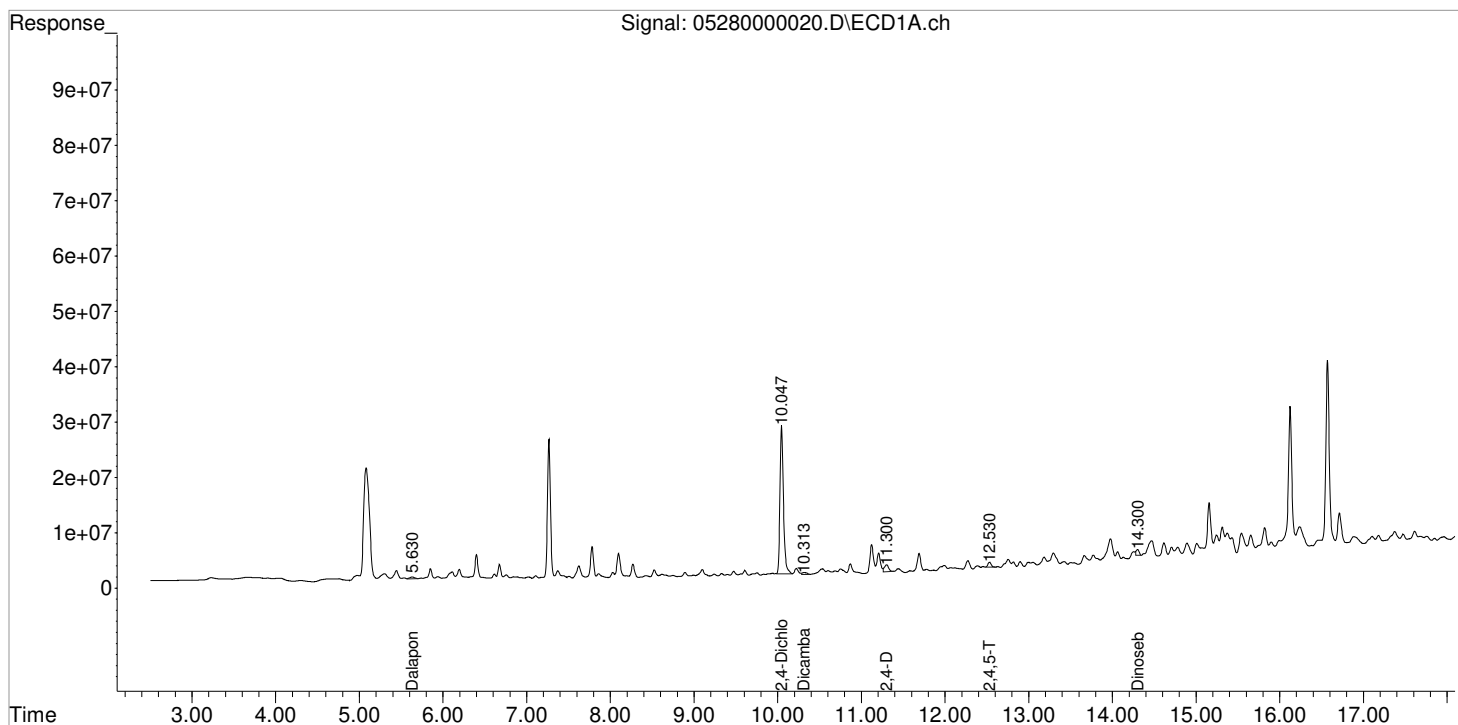
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\052821-HB\05280000020.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 23:21:15
Sample : K2104776-010
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 11:25:57 2021
Quant Results File: 050621_8151.RES

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

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

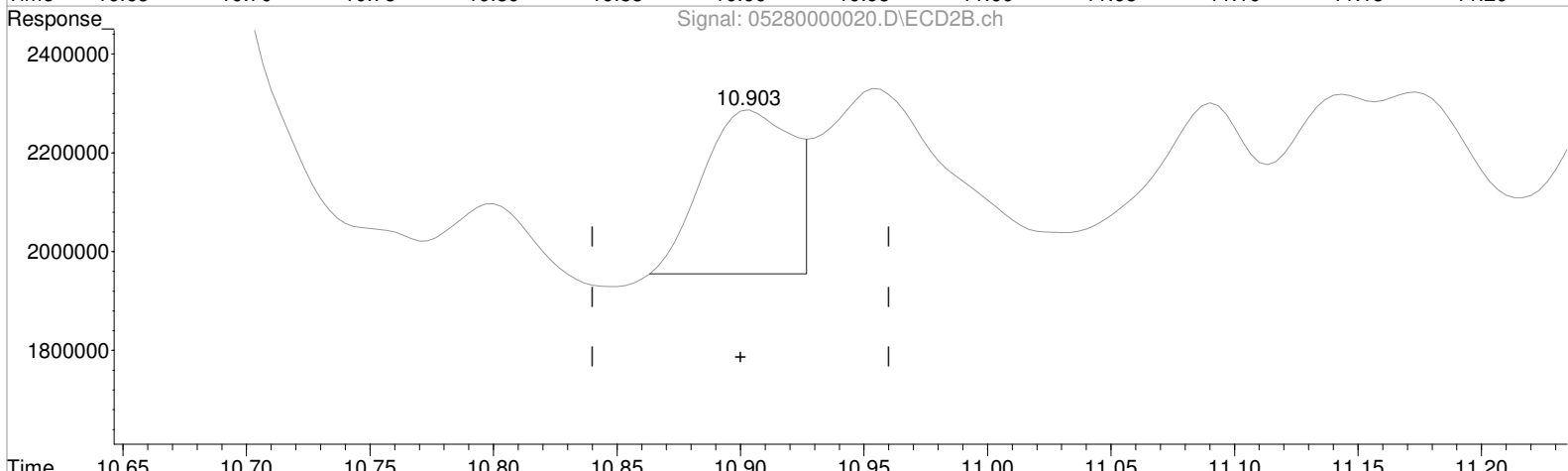
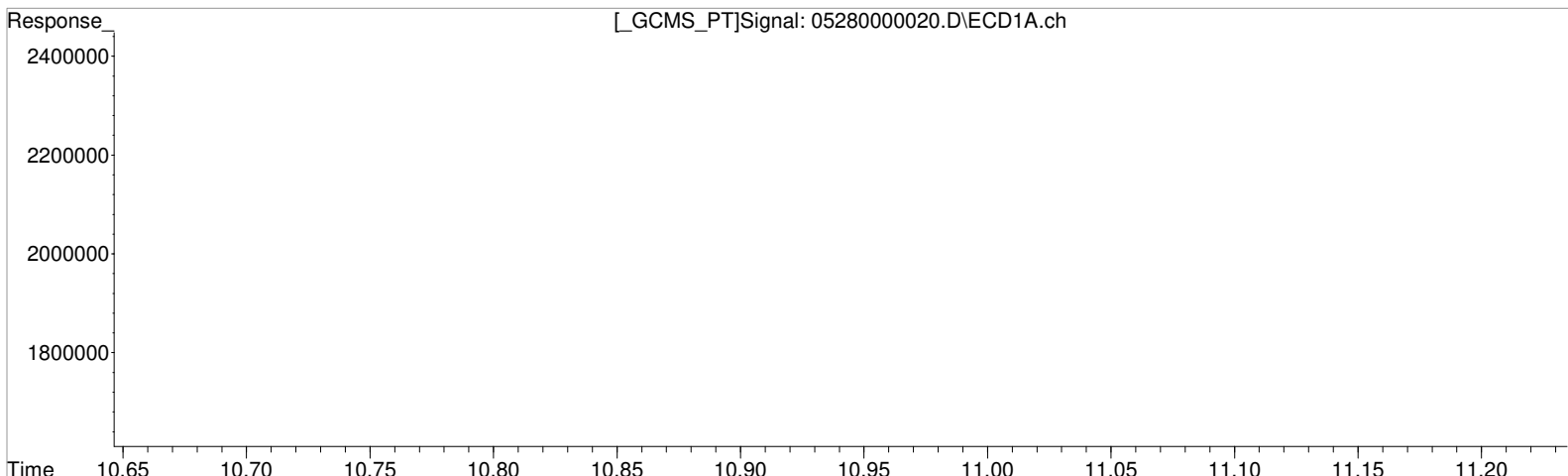
Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\052821-HB\05280000020.D Vial: 16
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 23:21:15 Operator: TAP
Sample : K2104776-010 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:35:25 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



(7) 2,4-D (m)
11.300min 6.841 ppb
response 4570894

Manual Integration:
Before
05/29/21

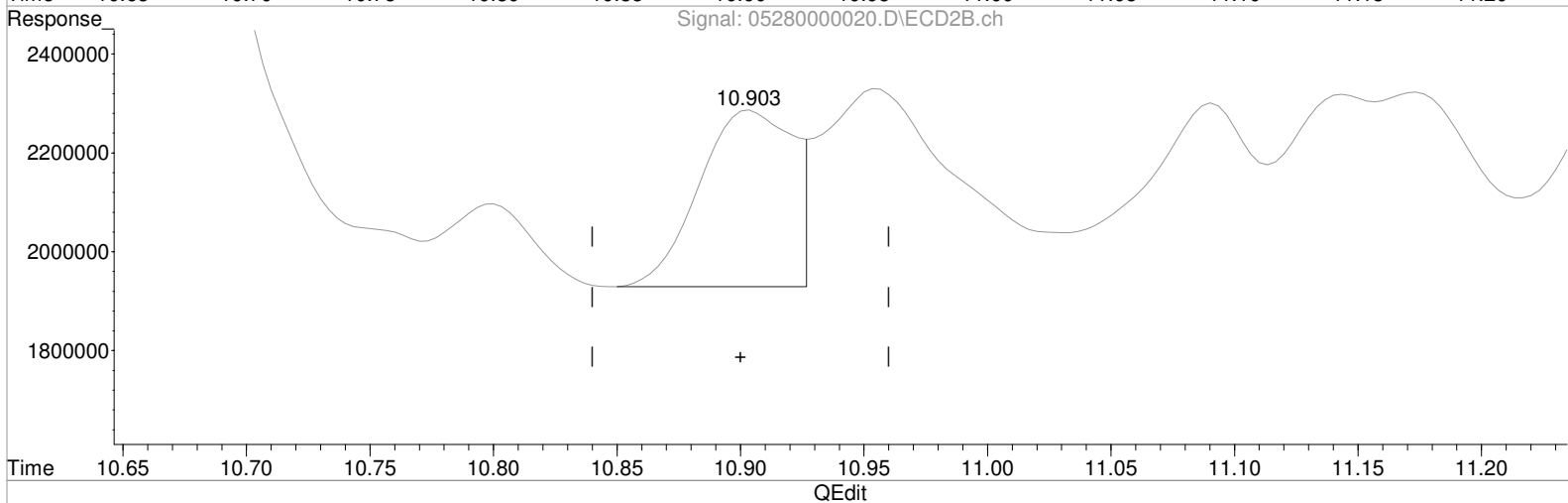
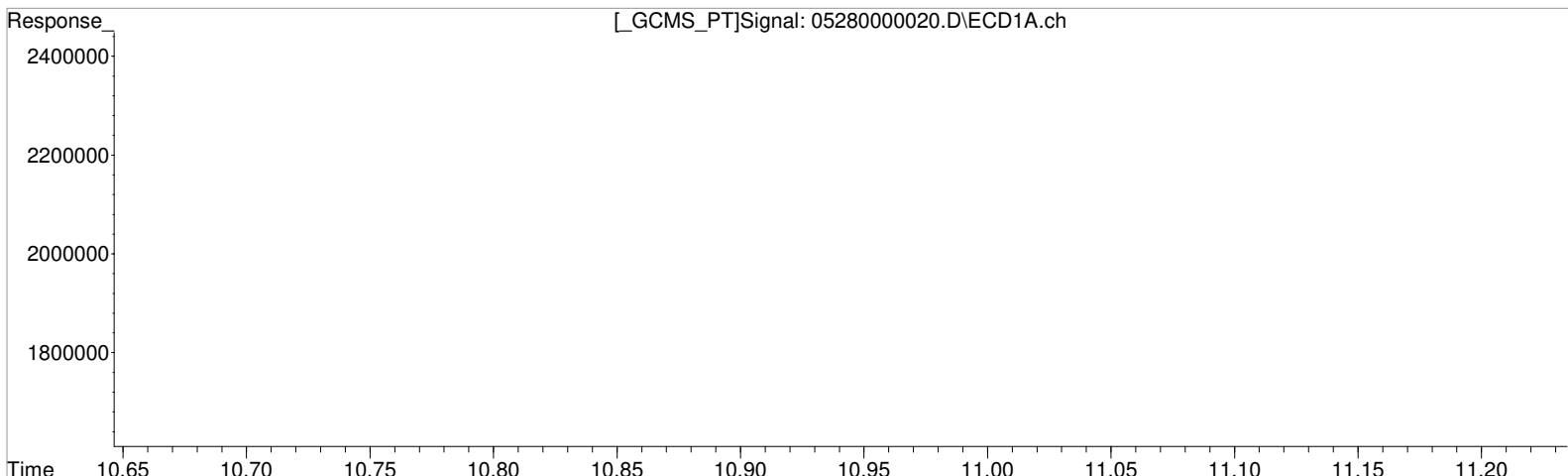
(7) 2,4-D #2 (m)
10.903min 2.153 ppb
response 871290

(+) = Expected Retention Time

Data File : J:\GC34\DATA\052821-HB\05280000020.D Vial: 16
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28-May-2021, 23:21:15 Operator: TAP
 Sample : K2104776-010 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 10:35:25 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

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





(7) 2,4-D (m)
 11.300min 6.841 ppb
 response 4570894

Manual Integration:
 After
 Baseline/Shoulder
 05/29/21

(7) 2,4-D #2 (m)
 10.903min 2.423 ppb m
 response 980755

Validation Report

1st  05/29/21
2nd  05/29/21

Data File: J:\GC34\DATA\052821-HB\05280000021.D\
Lab ID: K2104776-011
RunType: N/A
Matrix: Sediment

Date Acquired: 5/28/21 23:45:03
Batch ID: 725573
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	

Sample Exceptions

Exception Categories	Result	Corrective Action
Preparation Hold Time	Prep Date/Time: 05/26/2021 1610 Hold Date/Time: 05/14/2021 2359	See narrative

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - Rtx-CLPesticides	2,4,5-TP	26		20	CCV+ND
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides	2,4,5-TP	27		20	CCV+ND

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *K* 05/29/21
2nd *FW* 05/29/21

Data File: J:\GC34\DATA\052821-HB\0528000021.D\	Instrument: K-GC-34
Acqu Date: 5/28/21 23:45:03	Vial: 17
Run Type: N/A	Dilution: 1
Lab ID: K2104776-011	Raw Units: ppb

Bottle ID: K2104776-011.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 4/30/21	Receive Date: 5/3/21

Analysis Lot: 725573	Prep Lot: 380155	Report Group: K2104776
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 5/26/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100249
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	10.05 ^{+0.01}	9.69	71243938	34667189	89.251	76.415	89	76	76	26 - 127	N

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	0.00	0.00	0	0	0.000 ^{ccv}	0.000	0U	0U	5.3 U	N
2,4-D	0.00	0.00	0	0	0.000	0.000	0U	0U	17 U	N

Prep Amount: 30.8450 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 44.10

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: 5/29/21 12:15

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Data File : J:\GC34\DATA\052821-HB\05280000021.D Vial: 17
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28-May-2021, 23:45:03 Operator: TAP
 Sample : K2104776-011 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 11:27:20 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 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

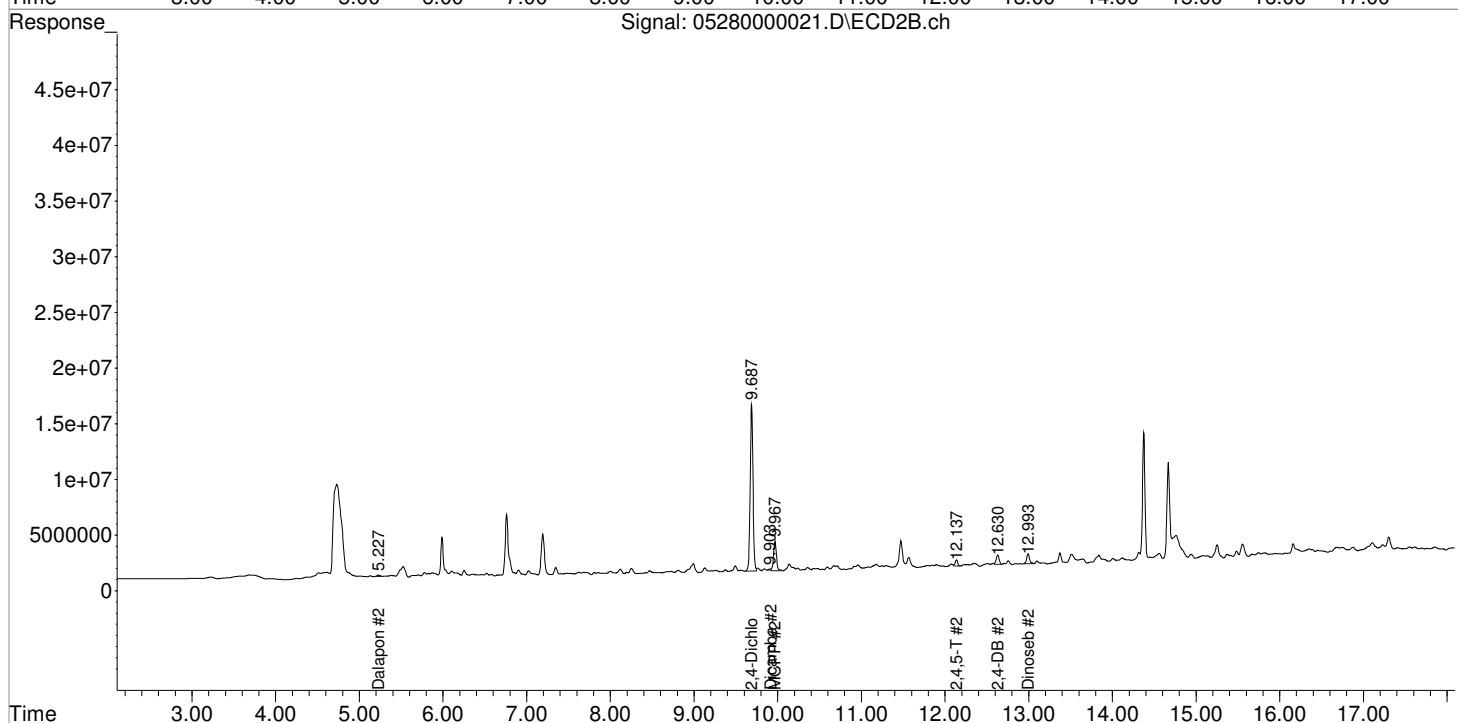
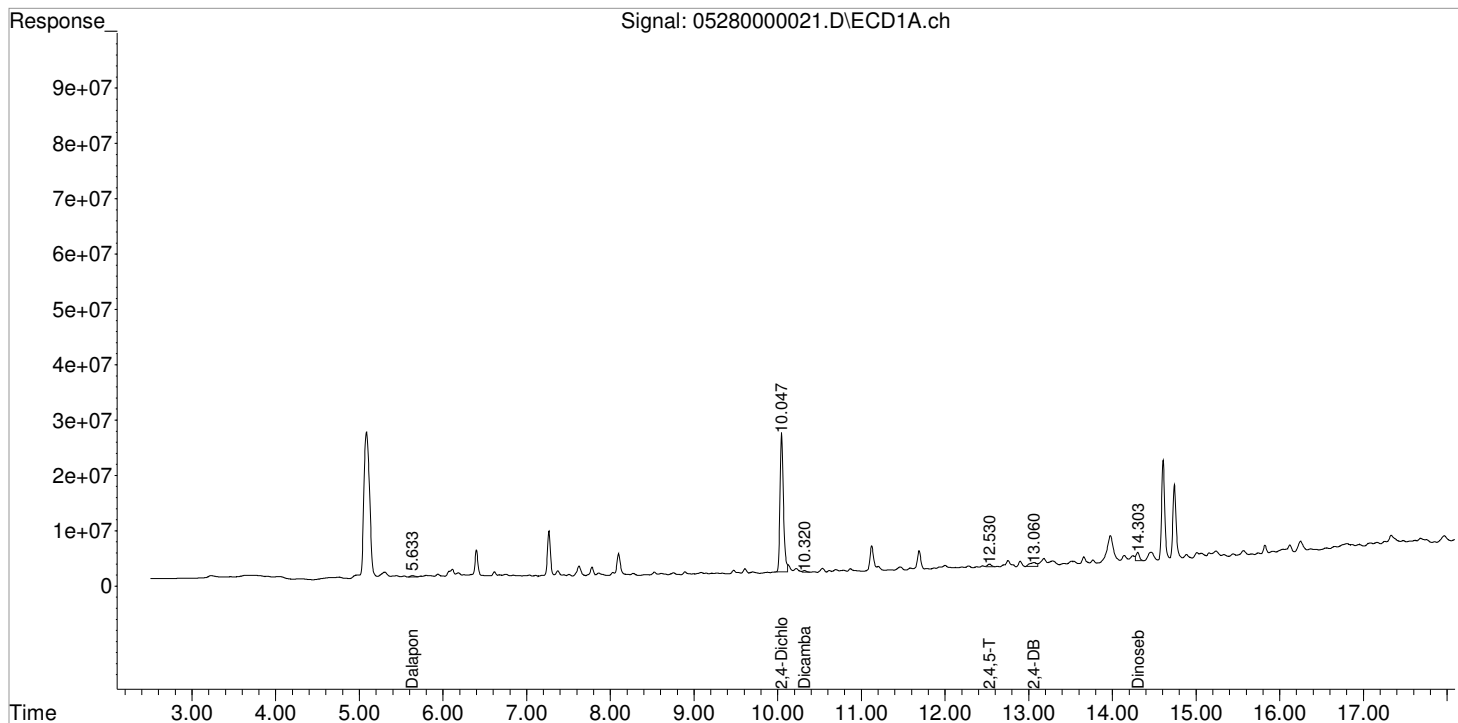
System Monitoring Compounds							
2) s	2,4-Dichl...	10.047	9.687	71243938	34667189	89.251m	76.415
Target Compounds							
1) m	Dalapon	5.633f	5.227	1085592	312710	1.059	0.563 #
3) m	Dicamba	10.320f	9.903	759138	118442	0.294	0.081 #
4) m	MCP	0.000	9.967	0	6373793	N.D.	3220.520 #
5) m	MCPA	10.617	10.237	678226	306410	N.D.	N.D.
6) m	Dichloroprop	0.000	10.593	0	557339	N.D.	N.D.
7) m	2,4-D	0.000	0.000	0	0	N.D.	N.D. d
8) m	2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.
9) m	2,4,5-T	12.530f	12.137	1390922	1169476	0.644	0.941 #
10) m	2,4-DB	13.060	12.630f	4146999	2063956	18.859	15.608
11) m	Dinoseb	14.303	12.993f	4135797	2065324	2.128	1.804

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

Data File : J:\GC34\DATA\052821-HB\05280000021.D Vial: 17
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28-May-2021, 23:45:03 Operator: TAP
 Sample : K2104776-011 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 11:27:20 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

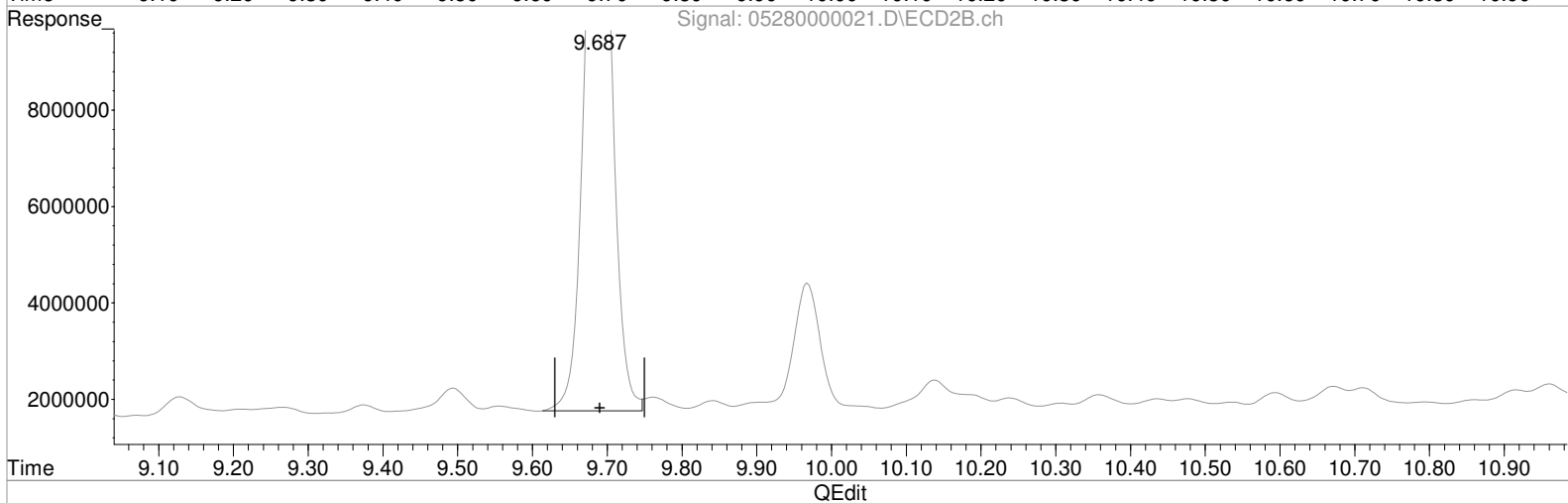
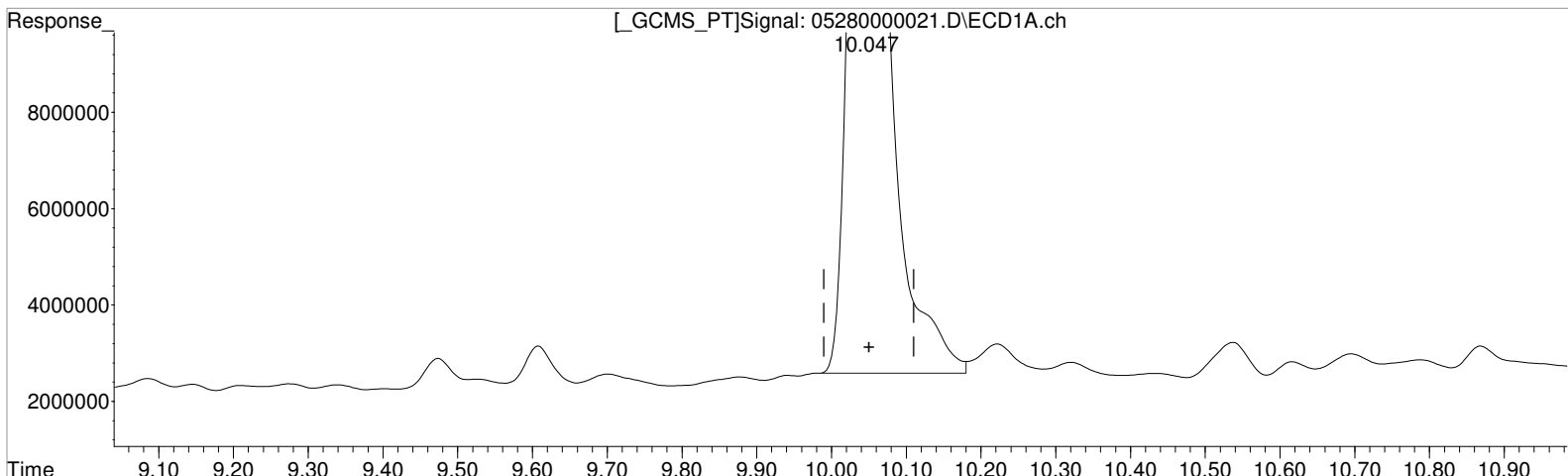
Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\052821-HB\05280000021.D Vial: 17
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28-May-2021, 23:45:03 Operator: TAP
 Sample : K2104776-011 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 10:35:28 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

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



(2) 2,4-Dichlorophenylacetic Acid (s)

10.047min 92.625 ppb
 response 73937258

Manual Integration:

Before

05/29/21

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

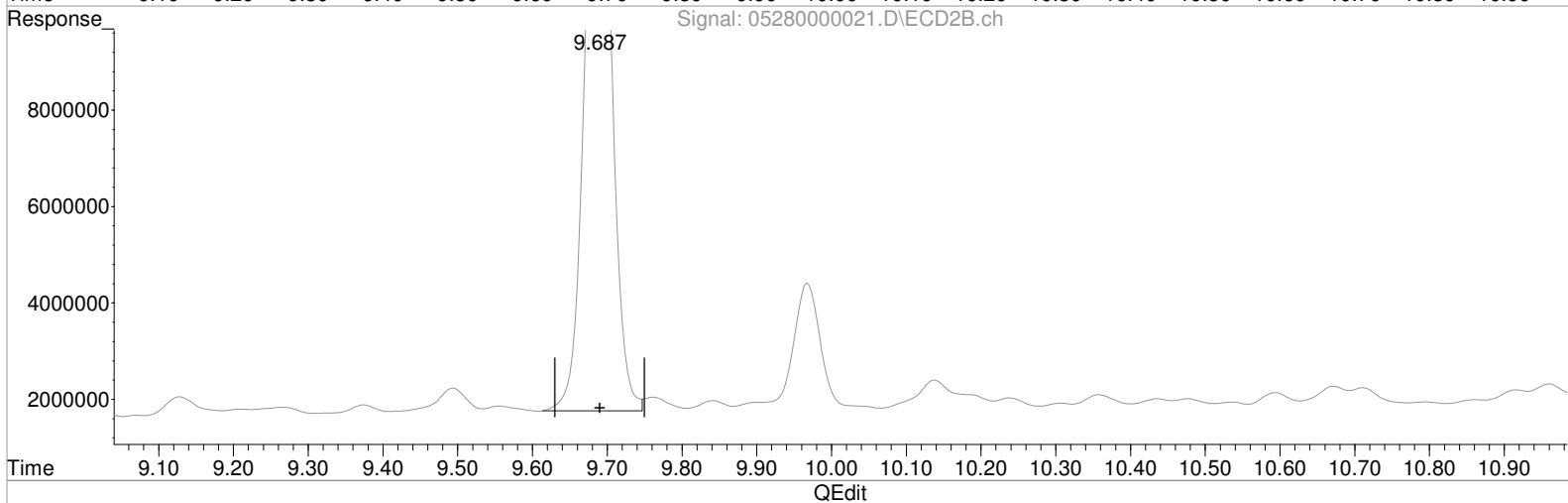
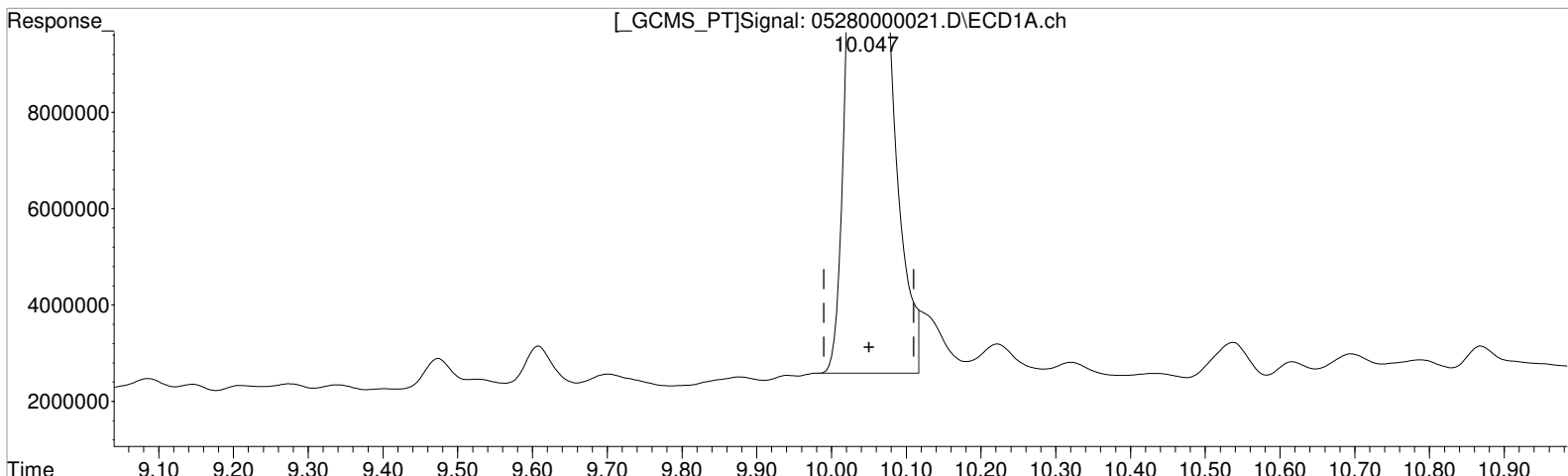
9.687min 76.415 ppb
 response 34667189

(+) = Expected Retention Time

Data File : J:\GC34\DATA\052821-HB\05280000021.D Vial: 17
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28-May-2021, 23:45:03 Operator: TAP
 Sample : K2104776-011 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 10:35:28 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

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



(2) 2,4-Dichlorophenylacetic Acid (s)

10.047min 89.251 ppb m
 response 71243938

Manual Integration:



After
 Baseline/Shoulder
 05/29/21

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

9.687min 76.415 ppb
 response 34667189

(+) = Expected Retention Time

Validation Report

1st  05/29/21
2nd  05/29/21

Data File: J:\GC34\DATA\052821-HB\05280000022.D\
Lab ID: K2104776-012
RunType: N/A
Matrix: Sediment

Date Acquired: 5/29/21 00:08:51
Batch ID: 725573
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	

Sample Exceptions

Exception Categories	Result	Corrective Action
Preparation Hold Time	Prep Date/Time: 05/26/2021 1610 Hold Date/Time: 05/14/2021 2359	See narrative

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - Rtx-CLPesticides	2,4,5-TP	26		20	CCV+ND
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides	2,4,5-TP	27		20	CCV+ND

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *K* 05/29/21
2nd *SW* 05/29/21

Data File: J:\GC34\DATA\052821-HB\0528000022.D\	Instrument: K-GC-34
Acqu Date: 5/29/21 00:08:51	Vial: 18
Run Type: N/A	Dilution: 1
Lab ID: K2104776-012	Raw Units: ppb

Bottle ID: K2104776-012.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 4/30/21	Receive Date: 5/3/21

Analysis Lot: 725573	Prep Lot: 380155	Report Group: K2104776
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 5/26/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100249
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	10.05 ^{+0.01}	9.69	75296437	34228730	94.327	75.448	94	75	75	26 - 127	N

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	0.00	0.00	0	0	0.000 ^{ccv}	0.000	0U	0U	4.7 U	N
2,4-D	11.30 ^{+0.04}	10.92 ^{+0.03}	1596999	326967	2.390	0.808	7.7U	2.6U	15 U	N

Prep Amount: 30.0480 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 51.70

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

Printed: 5/29/21 12:15

\\alprews001\starlims\LIMSReps\QuantValidation.rpt

Data File : J:\GC34\DATA\052821-HB\05280000022.D Vial: 18
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29-May-2021, 00:08:51 Operator: TAP
 Sample : K2104776-012 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 11:29:28 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 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...	10.047	9.690	75296437	34228730	94.327m	75.448
Target Compounds						
1) m Dalapon	5.633f	5.227	1371970	1049509	1.339	1.888 #
3) m Dicamba	0.000	9.897	0	105216	N.D.	0.072 #
4) m MCPP	10.430	9.967	497530	7753373	N.D.	4079.757
5) m MCPA	10.613	10.240	772348	287720	N.D.	N.D.
6) m Dichloroprop	0.000	10.597	0	568309	N.D.	N.D.
7) m 2,4-D	11.303	10.923	1596999	326967	2.390	0.808m#
8) m 2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.
9) m 2,4,5-T	12.533f	12.137	4634515	839820	2.146	0.676 #
10) m 2,4-DB	13.057	12.630f	3287222	2061489	14.949	15.590
11) m Dinoseb	14.307	12.993f	1953428	2347252	1.005	2.050 #

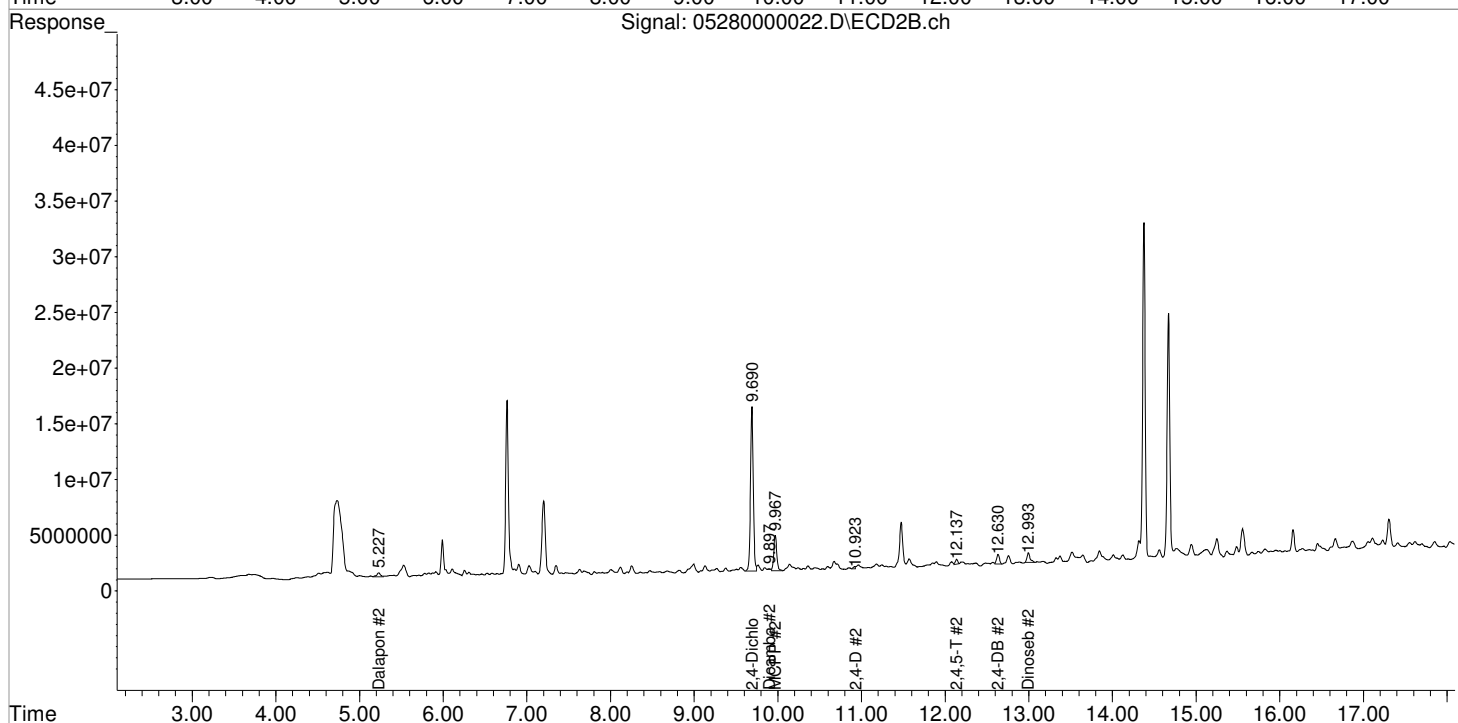
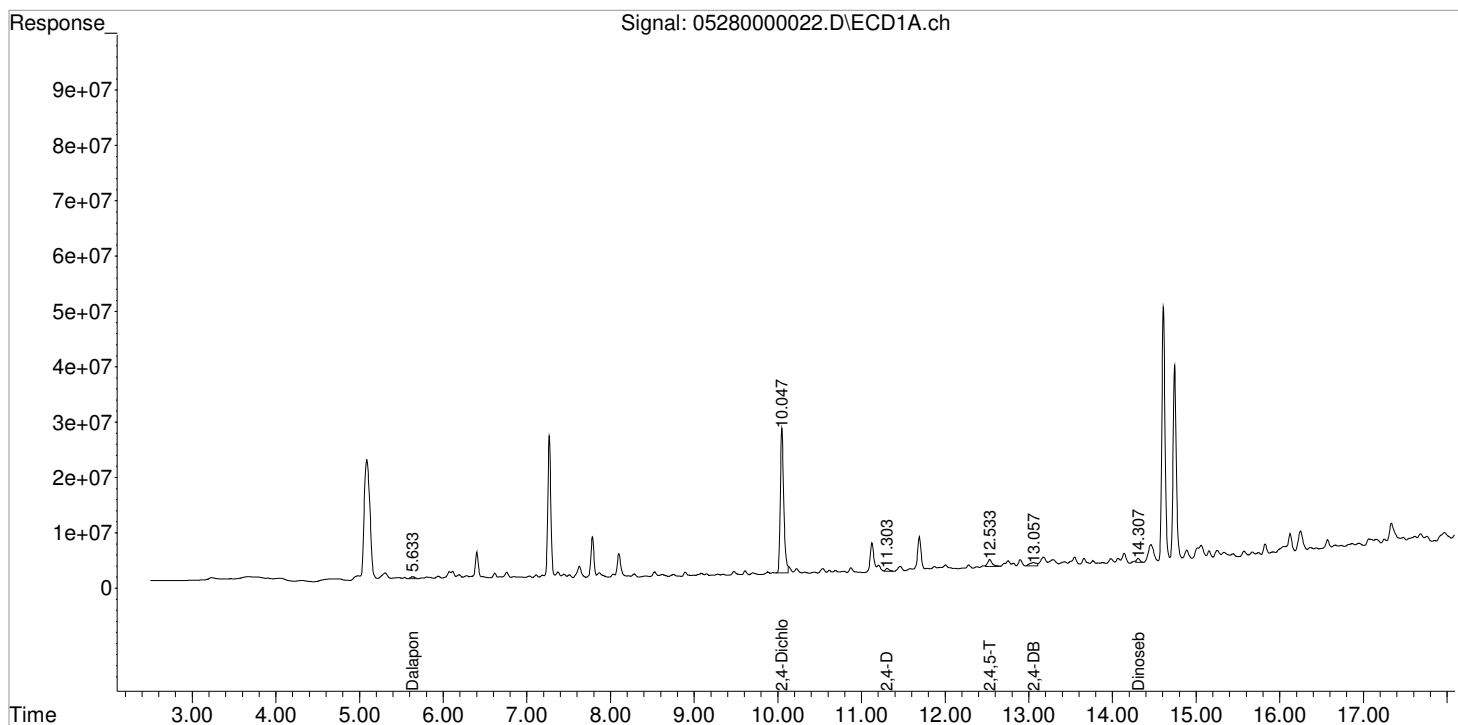
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\052821-HB\05280000022.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29-May-2021, 00:08:51
 Sample : K2104776-012
 Misc :
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 11:29:28 2021
 Quant Results File: 050621_8151.RES

Vial: 18
 Operator: TAP
 Inst : GCI
 Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

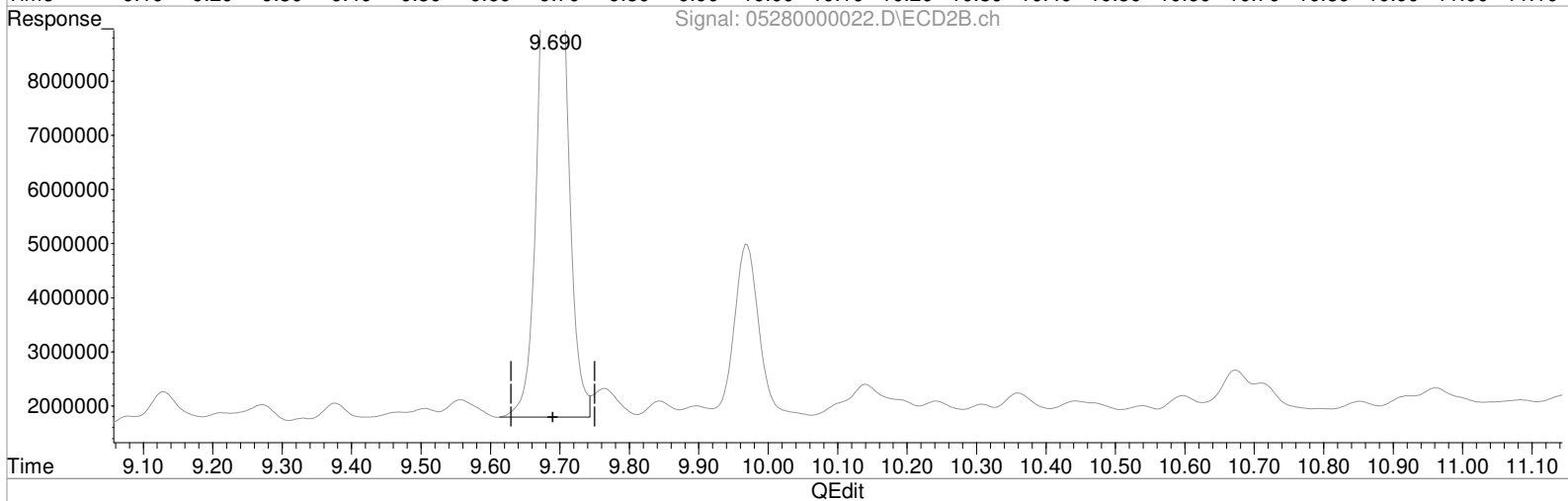
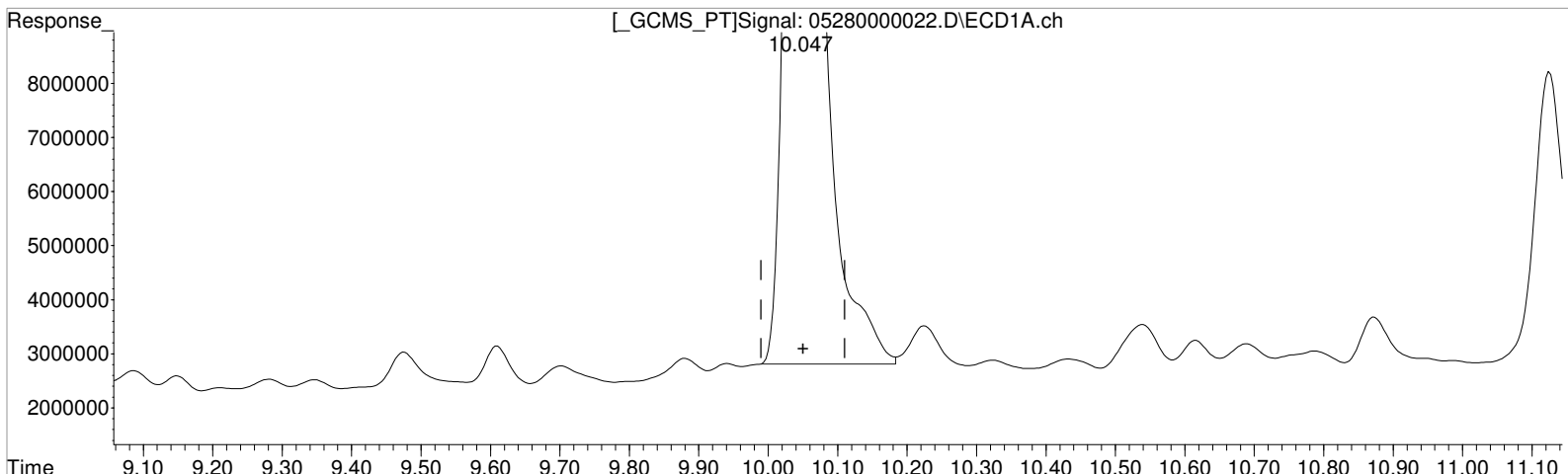
Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\052821-HB\05280000022.D Vial: 18
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29-May-2021, 00:08:51 Operator: TAP
Sample : K2104776-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:35:31 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



(2) 2,4-Dichlorophenylacetic Acid (s)

10.047min 96.378 ppb
response 76933298

Manual Integration:

Before

05/29/21

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

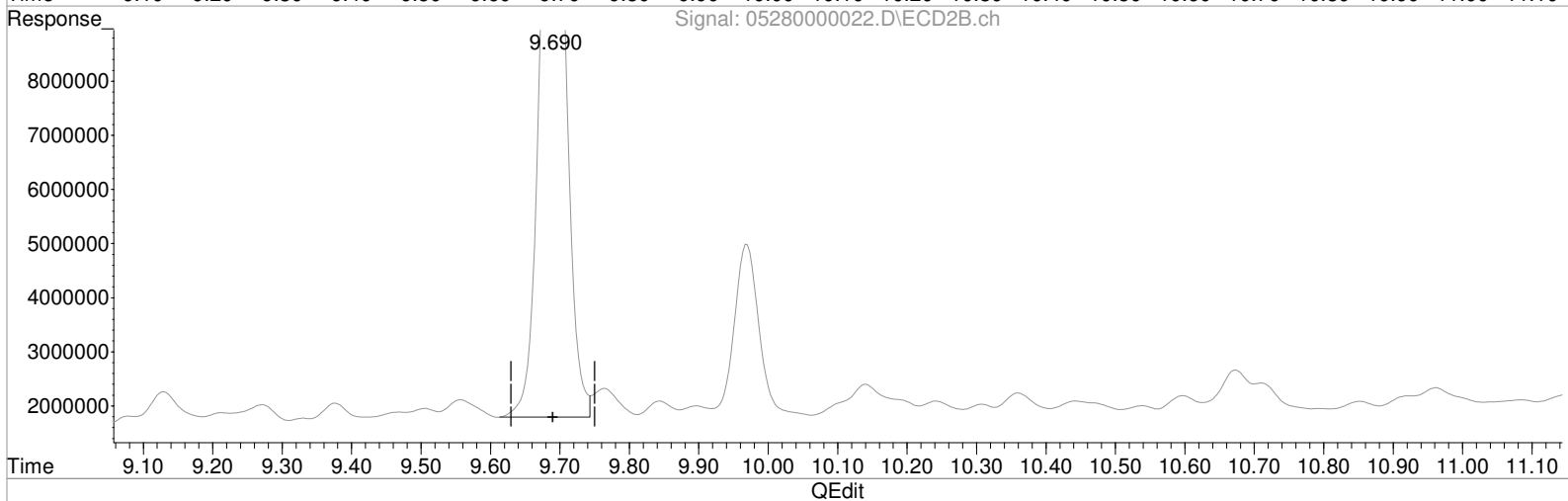
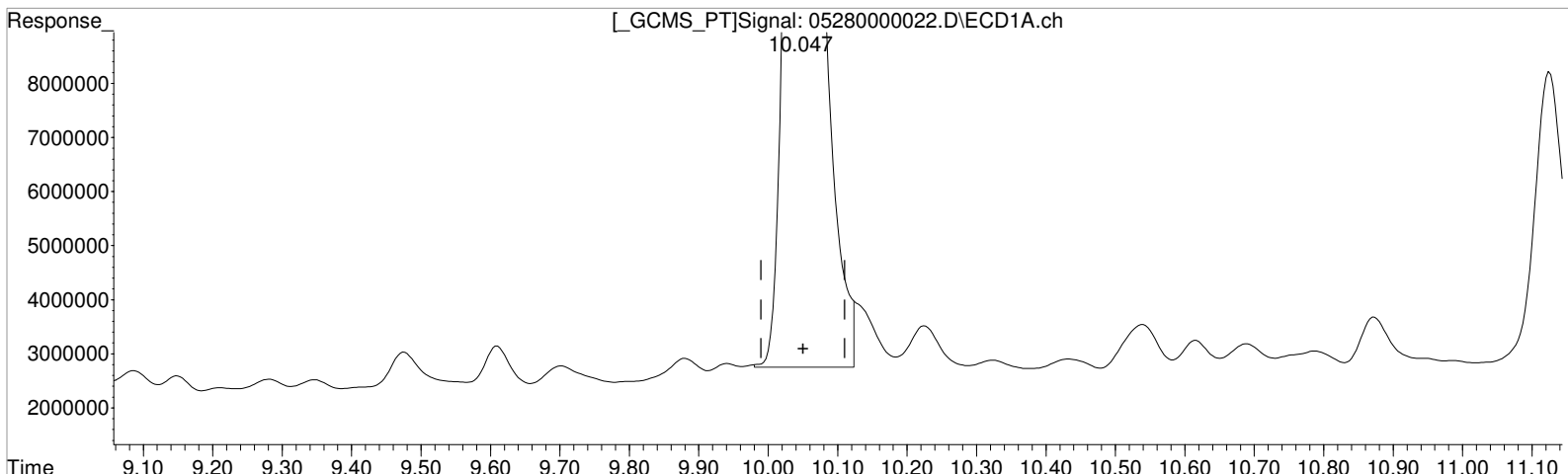
9.690min 75.448 ppb
response 34228730

(+) = Expected Retention Time

Data File : J:\GC34\DATA\052821-HB\05280000022.D Vial: 18
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29-May-2021, 00:08:51 Operator: TAP
 Sample : K2104776-012 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 10:35:31 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

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



(2) 2,4-Dichlorophenylacetic Acid (s)

10.047min 94.327 ppb m
 response 75296437

Manual Integration:

After
 Baseline/Shoulder
 05/29/21

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

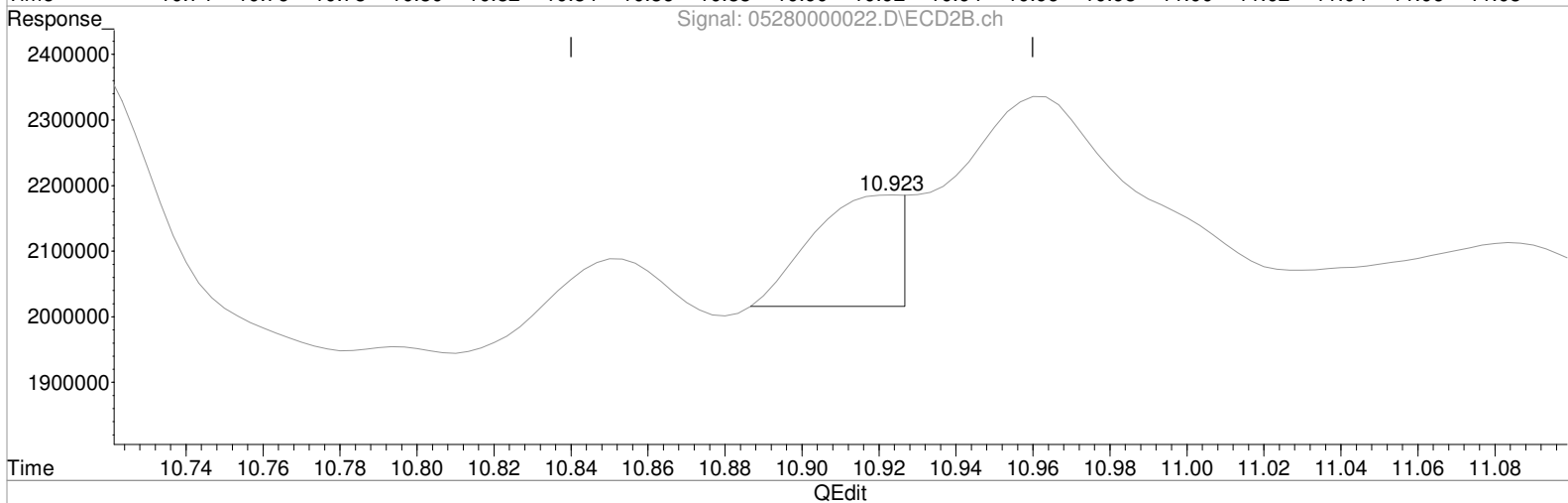
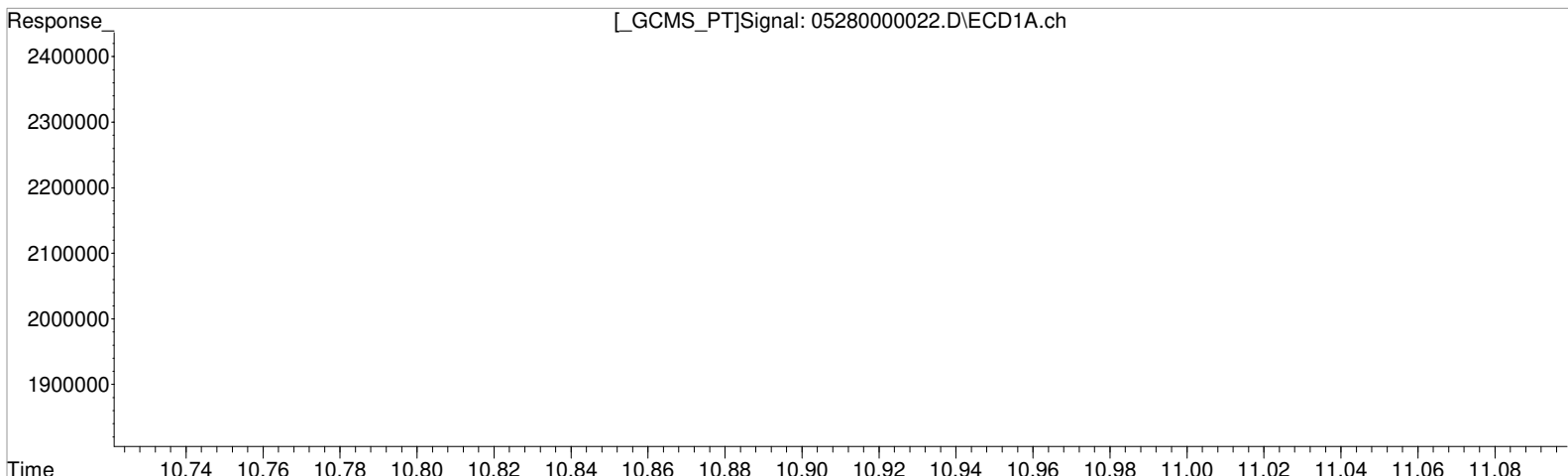
9.690min 75.448 ppb
 response 34228730

(+) = Expected Retention Time

Data File : J:\GC34\DATA\052821-HB\05280000022.D Vial: 18
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29-May-2021, 00:08:51 Operator: TAP
Sample : K2104776-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:35:31 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



(7) 2,4-D (m)
11.303min 2.390 ppb
response 1596999

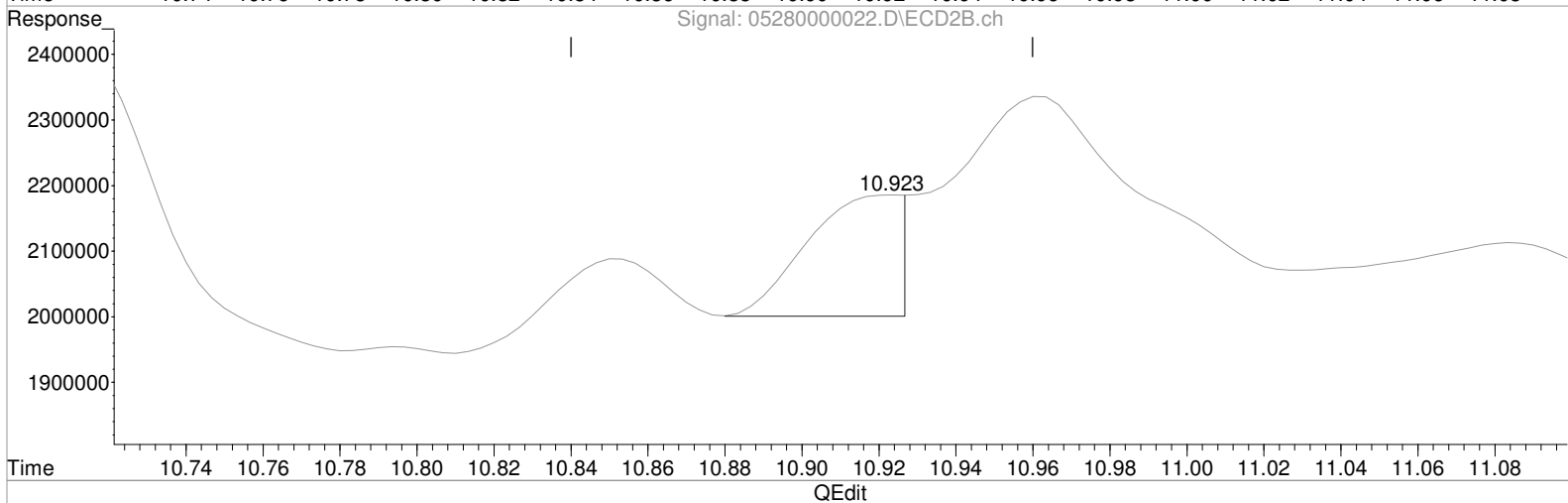
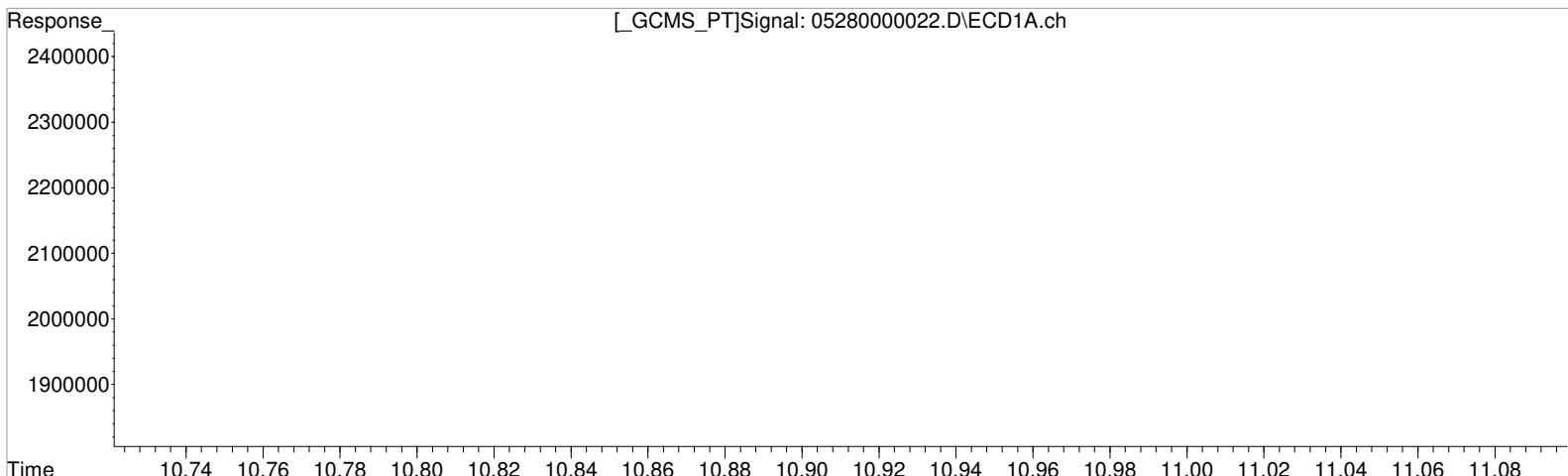
Manual Integration:
Before
05/29/21

(7) 2,4-D #2 (m)
10.923min 0.711 ppb
response 287732

Data File : J:\GC34\DATA\052821-HB\05280000022.D Vial: 18
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29-May-2021, 00:08:51 Operator: TAP
 Sample : K2104776-012 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 10:35:31 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

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





(7) 2,4-D (m)
 11.303min 2.390 ppb
 response 1596999

Manual Integration:
 After
 Baseline/Shoulder
 05/29/21

(7) 2,4-D #2 (m)
 10.923min 0.808 ppb m
 response 326967

Validation Report

1st  05/29/21
2nd  05/29/21

Data File: J:\GC34\DATA\052821-HB\05280000023.D\
Lab ID: K2104776-013
RunType: N/A
Matrix: Sediment

Date Acquired: 5/29/21 00:32:45
Batch ID: 725573
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	

Sample Exceptions

Exception Categories	Result	Corrective Action
Preparation Hold Time	Prep Date/Time: 05/26/2021 1610 Hold Date/Time: 05/14/2021 2359	See narrative

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - Rtx-CLPesticides	2,4,5-TP	26		20	CCV+ND
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides	2,4,5-TP	27		20	CCV+ND

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *SW* 05/29/21
2nd *SW* 05/29/21

Data File: J:\GC34\DATA\052821-HB\05280000023.D\	Instrument: K-GC-34
Acqu Date: 5/29/21 00:32:45	Vial: 19
Run Type: N/A	Dilution: 1
Lab ID: K2104776-013	Raw Units: ppb

Bottle ID: K2104776-013.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 4/30/21	Receive Date: 5/3/21

Analysis Lot: 725573	Prep Lot: 380155	Report Group: K2104776
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 5/26/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100249
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	10.05 ^{+0.01}	9.69	83624103	34367358	104.760	75.754	105	76	105	RO 26 - 127	N

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	0.00	0.00	0	0	0.000 ^{ccv}	0.000	0U	0U	4.0 U	N
2,4-D	11.31 ^{+0.05}	10.91 ^{+0.02}	10244509	380859	15.332	0.941	42J	2.6U	13 U	N

Prep Amount: 30.0340 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 60.90

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

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

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

Printed: 5/29/21 12:15

\\alprews001\starlims\LIMSReps\QuantValidation.rpt

Data File : J:\GC34\DATA\052821-HB\05280000023.D Vial: 19
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29-May-2021, 00:32:45 Operator: TAP
 Sample : K2104776-013 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 10:35:34 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 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...	10.050	9.693	83624103	34367358	104.760	75.754 #
Target Compounds						
1) m Dalapon	5.587	5.230	2370019	258830	2.312	0.466 #
3) m Dicamba	10.230f	9.907	1497746	288406	0.579	0.196 #
4) m MCPP	10.433	9.970	1355897	8486323	N.D.	4536.257
5) m MCPA	10.617	10.240	4999650	505057	90.193	N.D. #
6) m Dichloroprop	0.000	10.593	0	604314	N.D.	N.D.
7) m 2,4-D	11.307f	10.913	10244509	380859	15.332	0.941 #
8) m 2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.
9) m 2,4,5-T	12.537f	12.140	16944396	616595	7.848	0.496 #
10) m 2,4-DB	13.057	12.637f	6707759	2392522	30.505	18.093 #
11) m Dinoseb	14.267	12.993f	961382	2784276	0.495	2.431 #

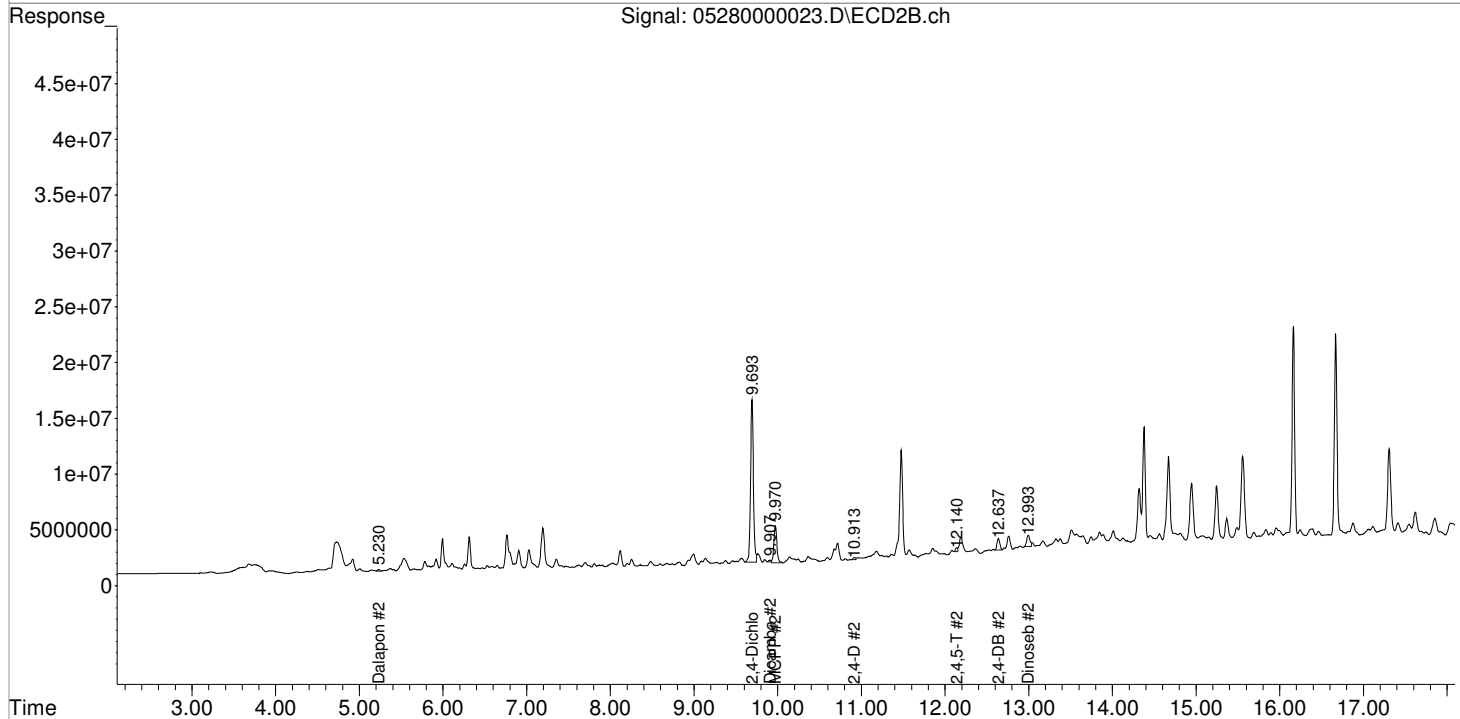
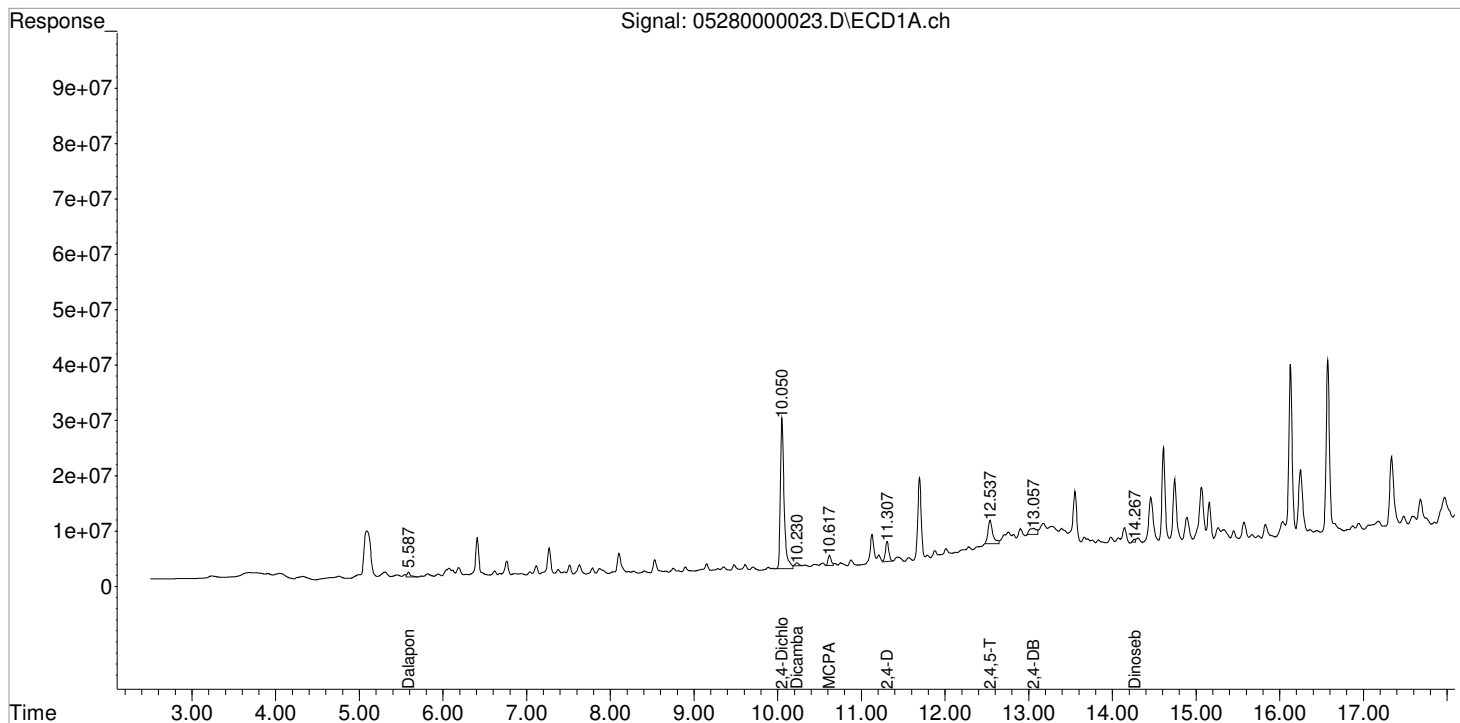
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\052821-HB\05280000023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29-May-2021, 00:32:45
Sample : K2104776-013
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:35:34 2021
Quant Results File: 050621_8151.RES



Vial: 19
Operator: TAP
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



Validation Report

1st  05/29/21
2nd  05/29/21

Data File: J:\GC34\DATA\052821-HB\05280000024.D\
Lab ID: K2104776-014
RunType: N/A
Matrix: Sediment

Date Acquired: 5/29/21 00:56:33
Batch ID: 725573
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

Sample Exceptions

Exception Categories	Result	Corrective Action
Preparation Hold Time	Prep Date/Time: 05/26/2021 1610 Hold Date/Time: 05/14/2021 2359	See narrative

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - Rtx-CLPesticides	2,4,5-TP	26		20	CCV+ND
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides	2,4,5-TP	27		20	CCV+ND
Analyte Coelutions - Rtx-CLPesticides2	Dicamba	9.96			NR
	MCP	9.96			NR

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *K* 05/29/21
2nd *FW* 05/29/21

Data File: J:\GC34\DATA\052821-HB\05280000024.D\	Instrument: K-GC-34
Acqu Date: 5/29/21 00:56:33	Vial: 20
Run Type: N/A	Dilution: 1
Lab ID: K2104776-014	Raw Units: ppb

Bottle ID: K2104776-014.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 4/30/21	Receive Date: 5/3/21

Analysis Lot: 725573	Prep Lot: 380155	Report Group: K2104776
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 5/26/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100249
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	10.04	9.68 ^{-0.01}	69615813	32259865	87.211	71.109	87	71	71	26 - 127	N

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	0.00	0.00	0	0	0.000 ^{ccv}	0.000	0U	0U	4.4 U	N
2,4-D	11.30 ^{+0.04}	10.91 ^{+0.02}	2384511	300850	3.569	0.743	11U	2.2U	14 U	N

Prep Amount: 30.7330 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 54.10

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

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

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

Data File : J:\GC34\DATA\052821-HB\05280000024.D Vial: 20
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29-May-2021, 00:56:33 Operator: TAP
 Sample : K2104776-014 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 11:31:40 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 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

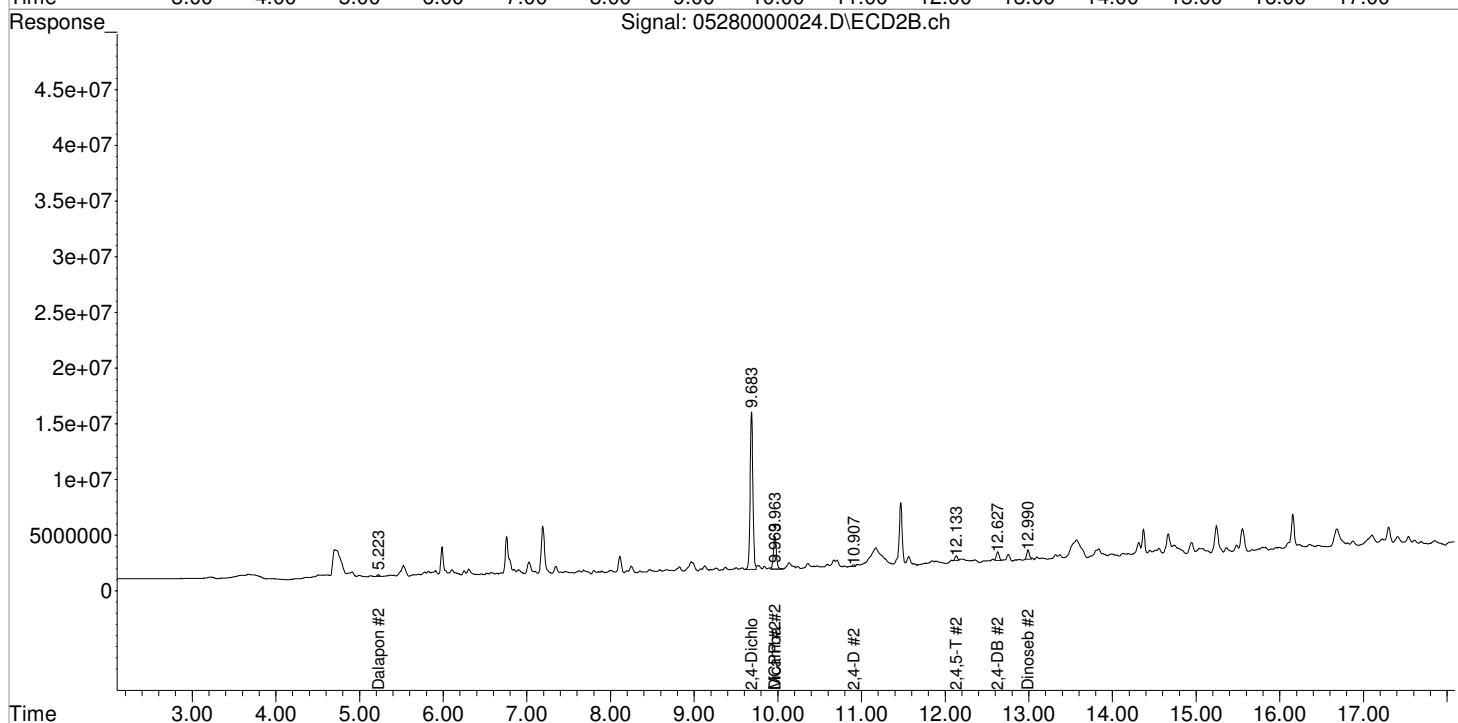
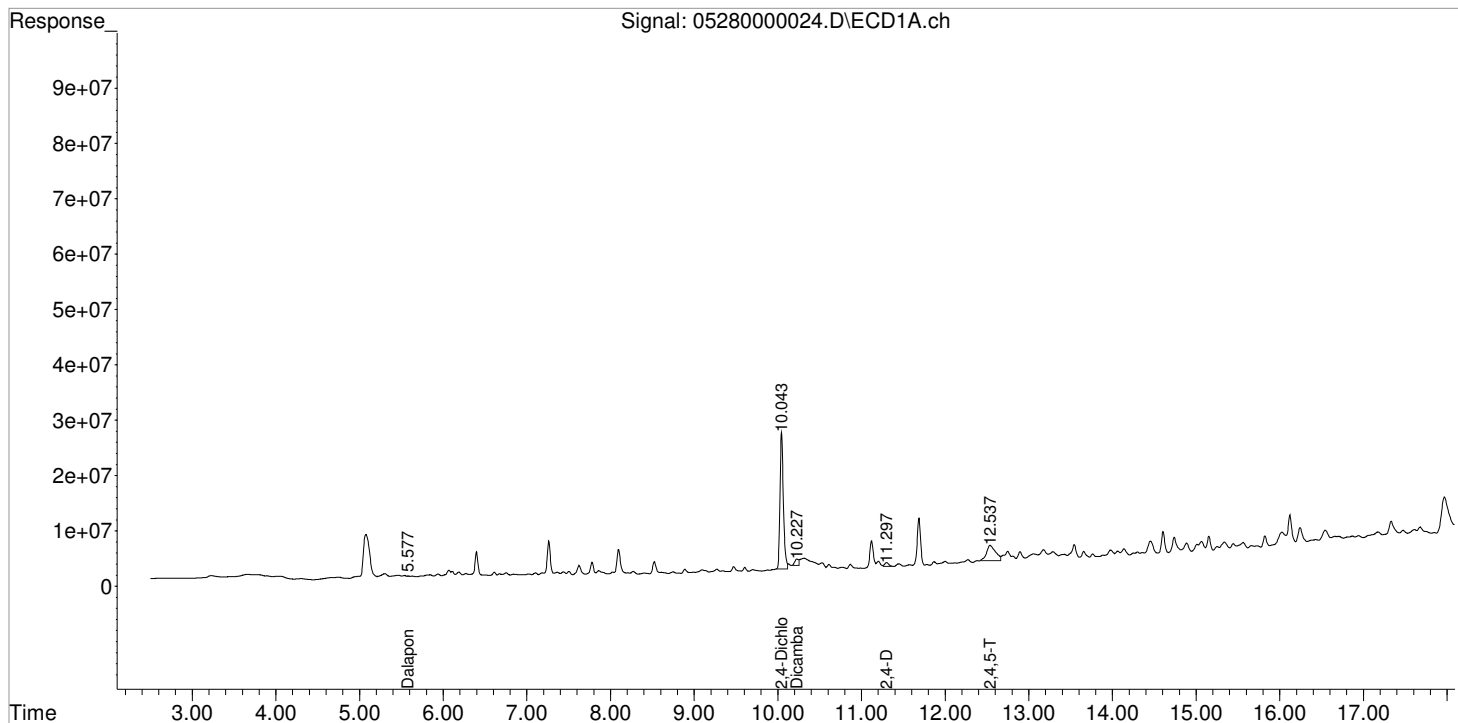
System Monitoring Compounds						
2) s 2,4-Dichl...	10.043	9.683	69615813	32259865	87.211m	71.109
Target Compounds						
1) m Dalapon	5.577	5.223	128195	366346	0.125	0.659 #
3) m Dicamba	10.227f	9.963f	3864413	7058703	1.494	4.803 #
4) m MCPP	0.000	9.963	0	7058703	N.D.	3647.099 #
5) m MCPA	10.610	0.000	1238186	0	N.D.	N.D.
6) m Dichloroprop	0.000	10.590	0	548474	N.D.	N.D.
7) m 2,4-D	11.297	10.907	2384511	300850	3.569	0.743m#
8) m 2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.
9) m 2,4,5-T	12.537f	12.133	20617153	854146	9.549	0.687 #
10) m 2,4-DB	0.000	12.627f	0	1743637	N.D.	13.186 #
11) m Dinoseb	0.000	12.990f	0	1884461	N.D.	1.646 #

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

Data File : J:\GC34\DATA\052821-HB\05280000024.D Vial: 20
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29-May-2021, 00:56:33 Operator: TAP
 Sample : K2104776-014 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 11:31:40 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

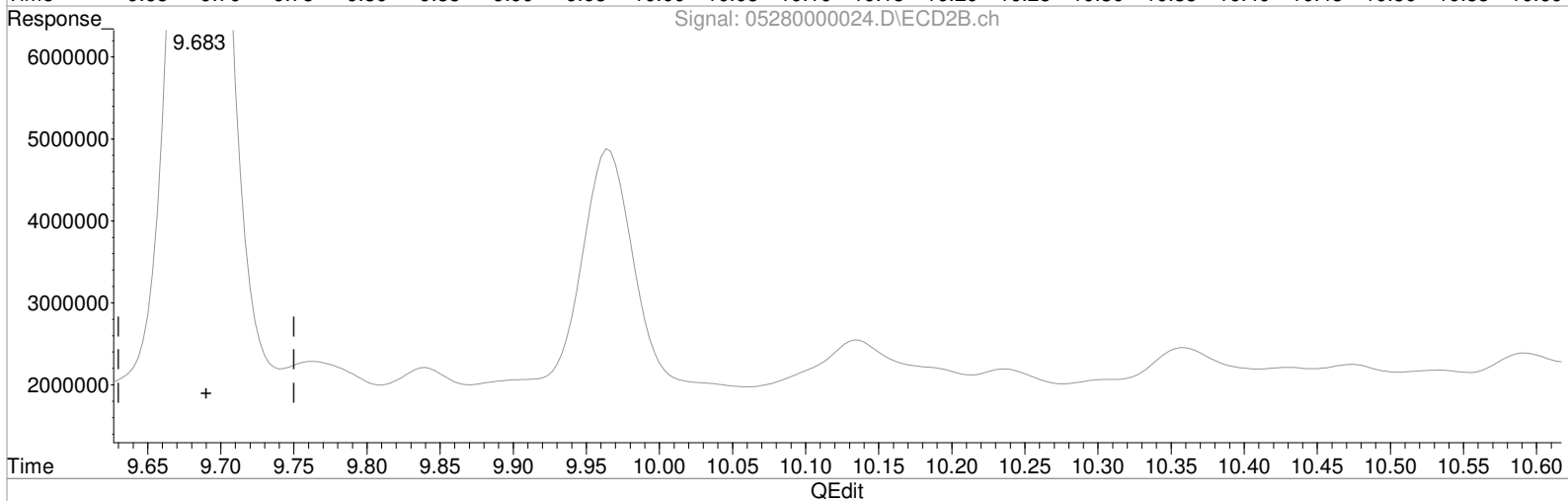
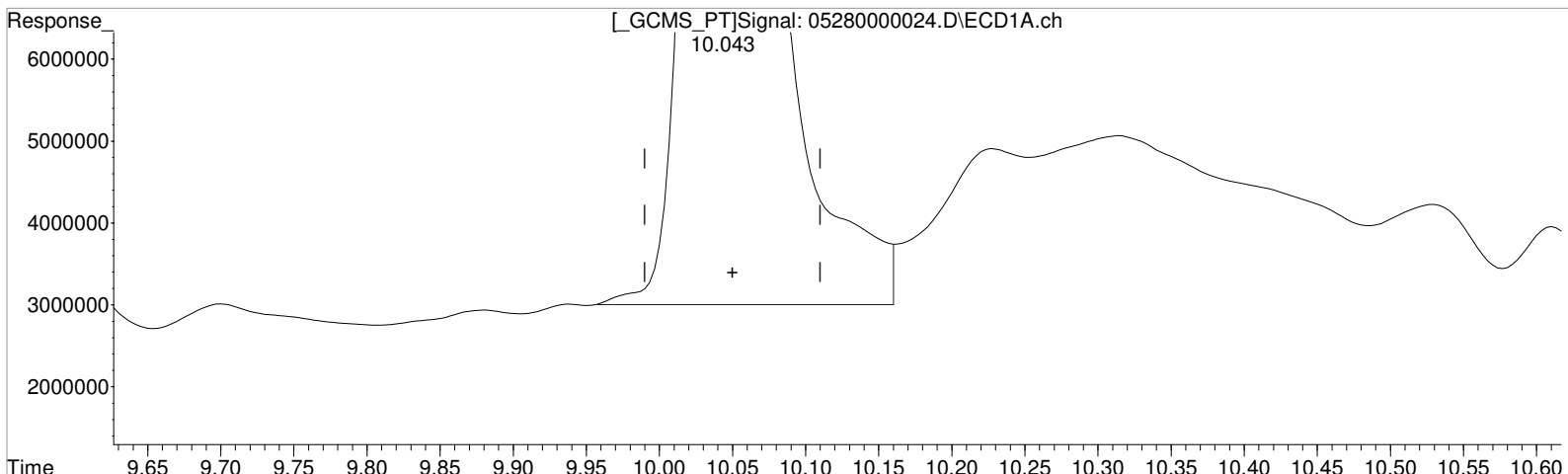
Volume Inj. : 2 uL
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
 Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\052821-HB\05280000024.D Vial: 20
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29-May-2021, 00:56:33 Operator: TAP
 Sample : K2104776-014 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 10:35:37 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

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



(2) 2,4-Dichlorophenylacetic Acid (s)

10.043min 91.872 ppb
 response 73335969

Manual Integration:

Before

05/29/21

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

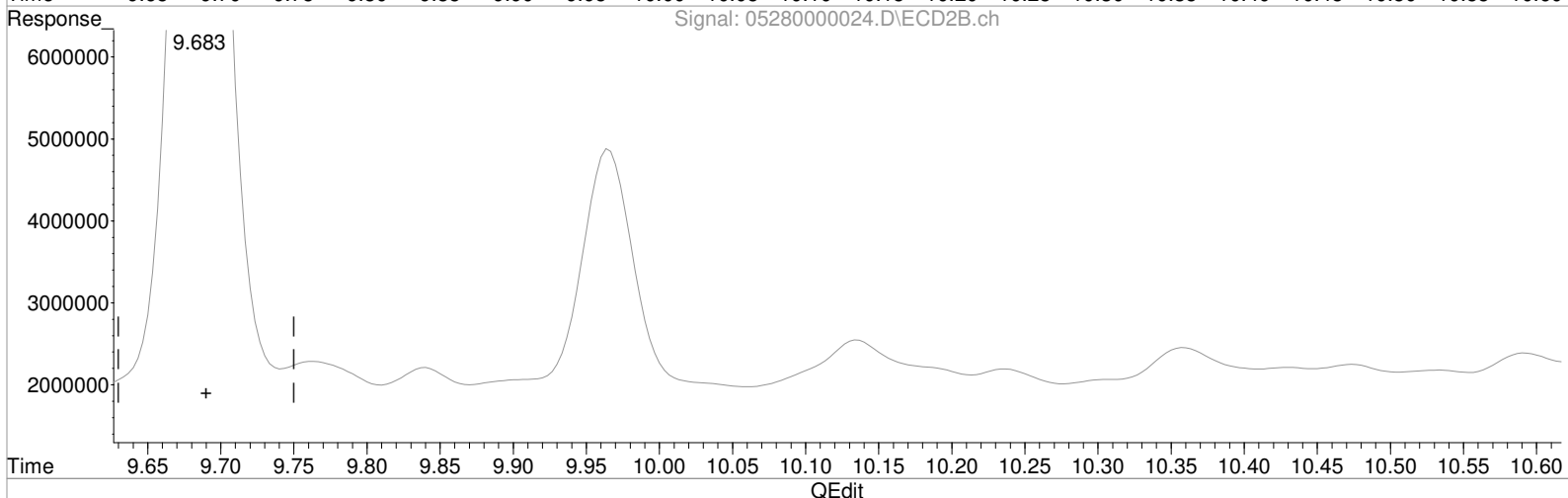
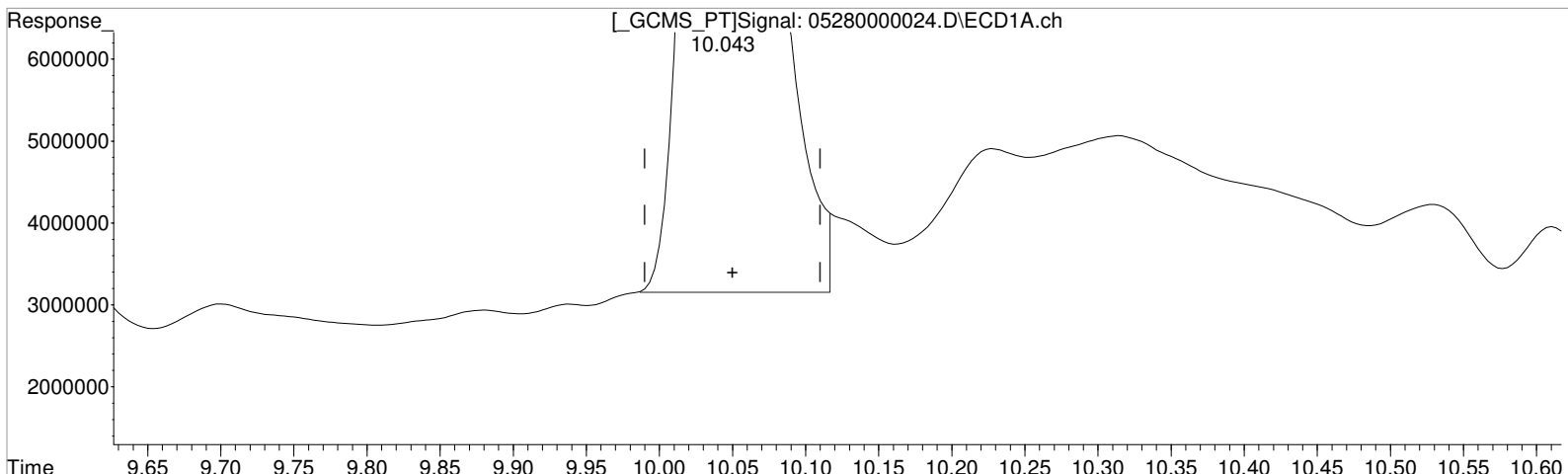
9.683min 71.109 ppb
 response 32259865

(+) = Expected Retention Time

Data File : J:\GC34\DATA\052821-HB\05280000024.D Vial: 20
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29-May-2021, 00:56:33 Operator: TAP
 Sample : K2104776-014 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 10:35:37 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

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



(2) 2,4-Dichlorophenylacetic Acid (s)

10.043min 87.211 ppb m
 response 69615813

Manual Integration:

After
 Baseline/Shoulder
 05/29/21

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

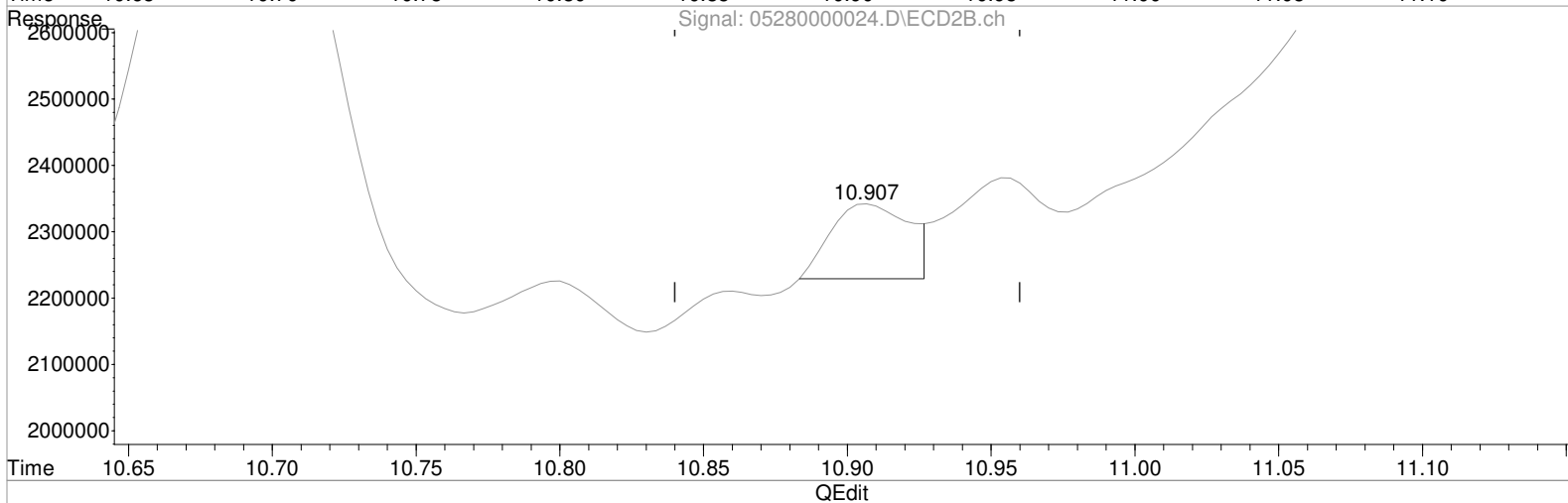
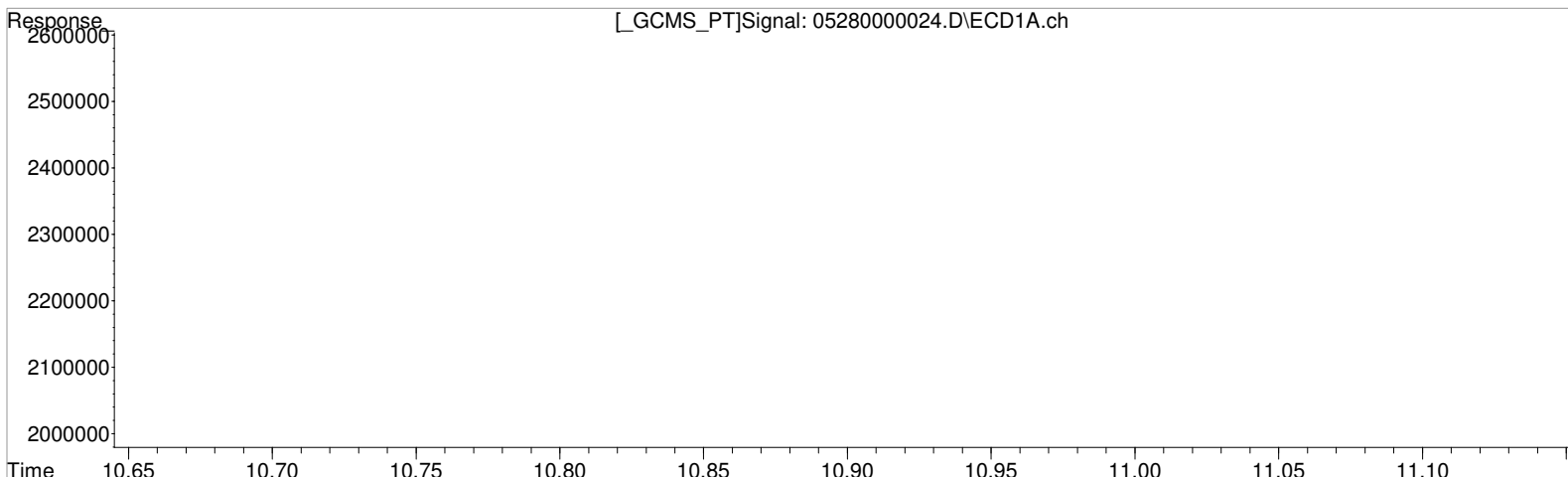
9.683min 71.109 ppb
 response 32259865

(+) = Expected Retention Time

Data File : J:\GC34\DATA\052821-HB\05280000024.D Vial: 20
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29-May-2021, 00:56:33 Operator: TAP
Sample : K2104776-014 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:35:37 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



(7) 2,4-D (m)
11.297min 3.569 ppb
response 2384511

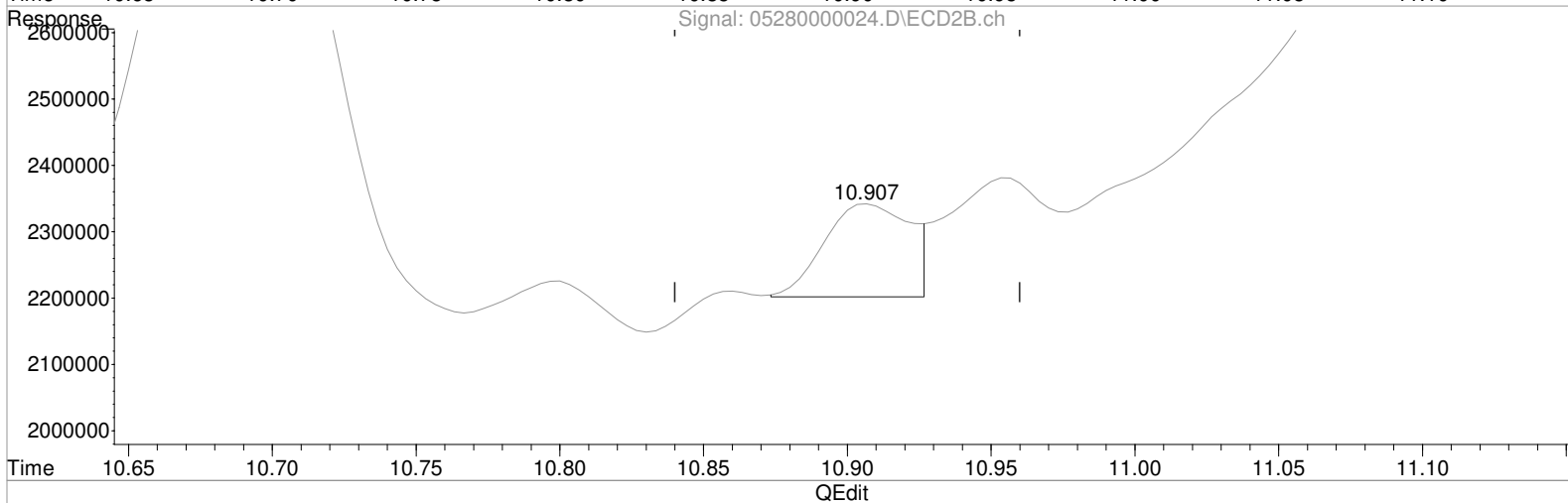
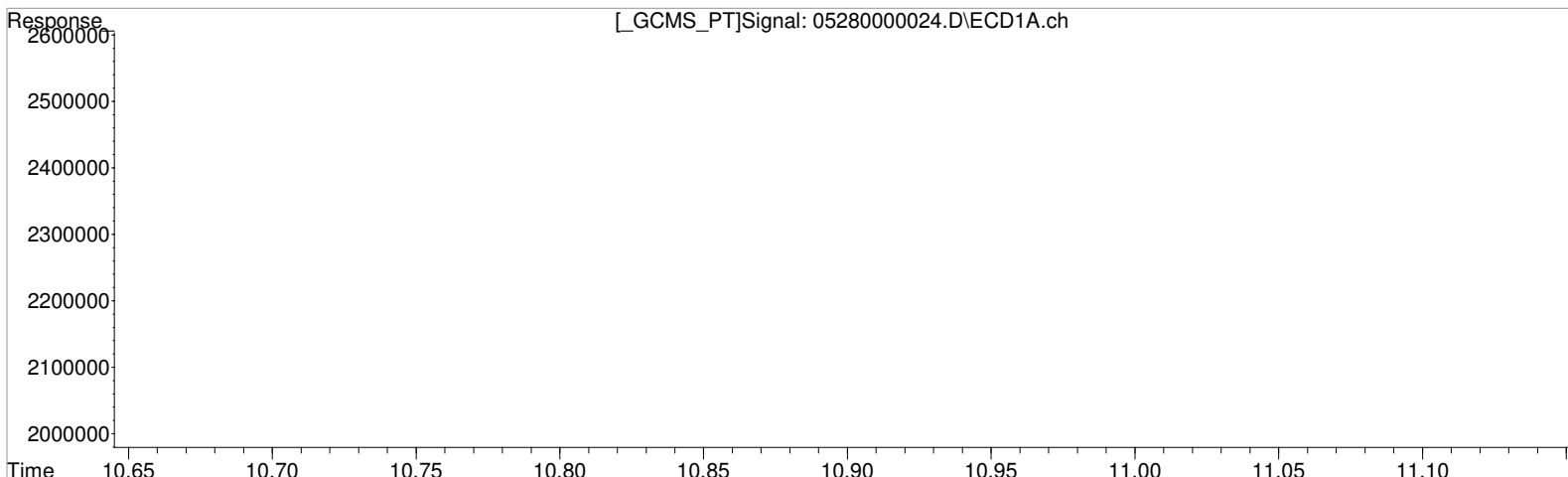
Manual Integration:
Before
05/29/21

(7) 2,4-D #2 (m)
10.907min 0.543 ppb
response 219596

Data File : J:\GC34\DATA\052821-HB\05280000024.D Vial: 20
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29-May-2021, 00:56:33 Operator: TAP
Sample : K2104776-014 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:35:37 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



(7) 2,4-D (m)
11.297min 3.569 ppb
response 2384511

(7) 2,4-D #2 (m)
10.907min 0.743 ppb m
response 300850

Manual Integration:
After
Baseline/Shoulder
05/29/21

Validation Report

1st 05/29/21
2nd 05/29/21

Data File: J:\GC34\DATA\052821-HB\05280000025.D\
Lab ID: K2104776-015
RunType: N/A
Matrix: Sediment

Date Acquired: 5/29/21 01:20:19
Batch ID: 725573
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	

Sample Exceptions

Exception Categories	Result	Corrective Action
Preparation Hold Time	Prep Date/Time: 05/26/2021 1610 Hold Date/Time: 05/14/2021 2359	See narrative

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - Rtx-CLPesticides	2,4,5-TP	26		20	CCV high <MRL
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides	2,4,5-TP	27		20	CCV high <MRL
Surrogates	DCAA	214	26	127	matrix RO
Above Highest ICAL Level - Rtx-CLPesticides	2,4-D	743.400		188.06	intRO

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *SW* 05/29/21
2nd *SW* 05/29/21

Data File: J:\GC34\DATA\052821-HB\05280000025.D\	Instrument: K-GC-34
Acqu Date: 5/29/21 01:20:19	Vial: 21
Run Type: N/A	Dilution: 1
Lab ID: K2104776-015	Raw Units: ppb

Bottle ID: K2104776-015.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 4/30/21	Receive Date: 5/3/21

Analysis Lot: 725573	Prep Lot: 380155	Report Group: K2104776
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 5/26/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100249
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?	
DCAA	10.05 ^{+0.01}	9.69	170663594	36697412	213.799	80.890	214*	81	214 *	26 - 127 P	N	
							RO					
							Final Conc.Units: ug/Kg					

Target Compounds

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	12.21 ^{+0.02}	11.77 ^{+0.02}	35436143	5374320	12.164 ^{CCV}	3.192	46J	12J	46 J i RPD i	N
2,4-D	11.30 ^{+0.04}	10.89	496735246	408851	743.400	1.010	2800E	WRT 3.8U	18 U	N

Prep Amount: 30.4740 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 43.30

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

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

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

Printed: 5/29/21 12:15

\\alprews001\starlims\LIMSReps\QuantValidation.rpt

Data File : J:\GC34\DATA\052821-HB\05280000025.D Vial: 21
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29-May-2021, 01:20:19 Operator: TAP
 Sample : K2104776-015 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 11:36:16 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 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

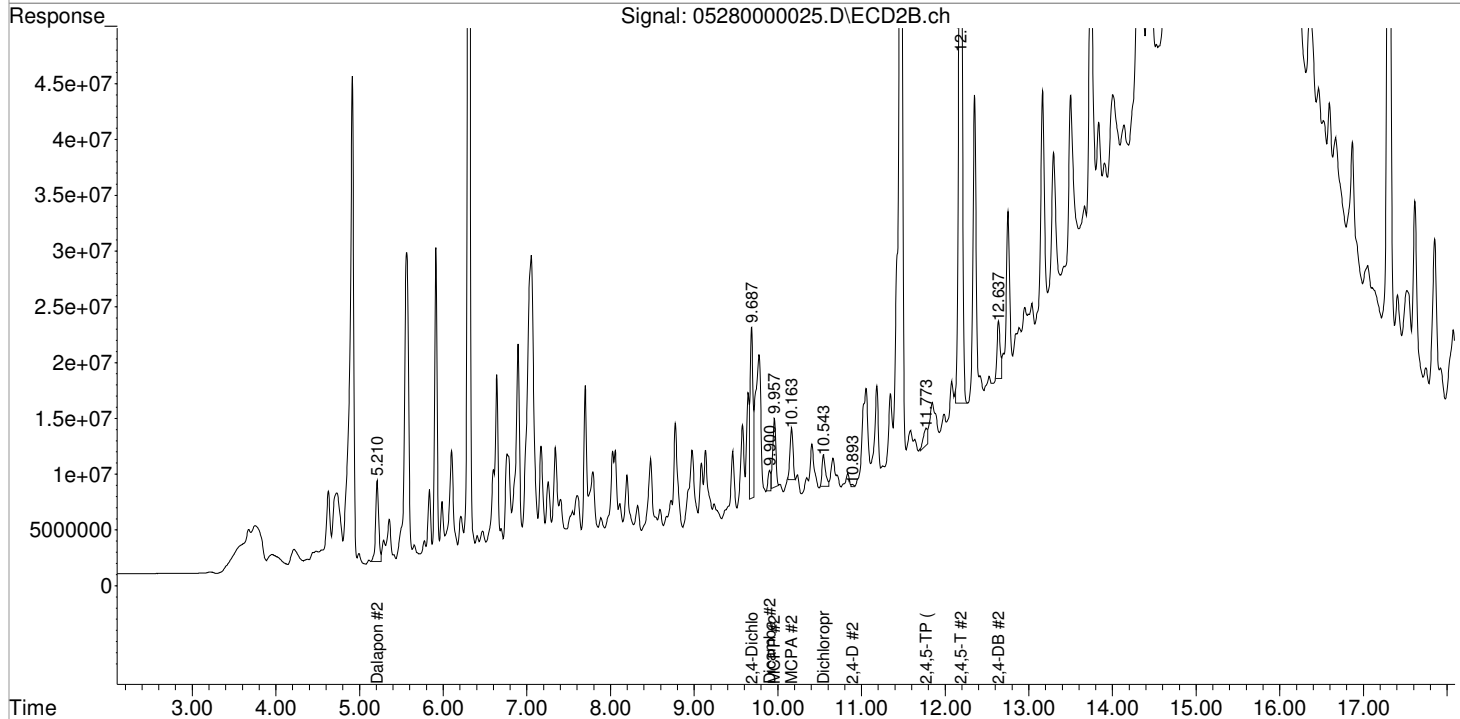
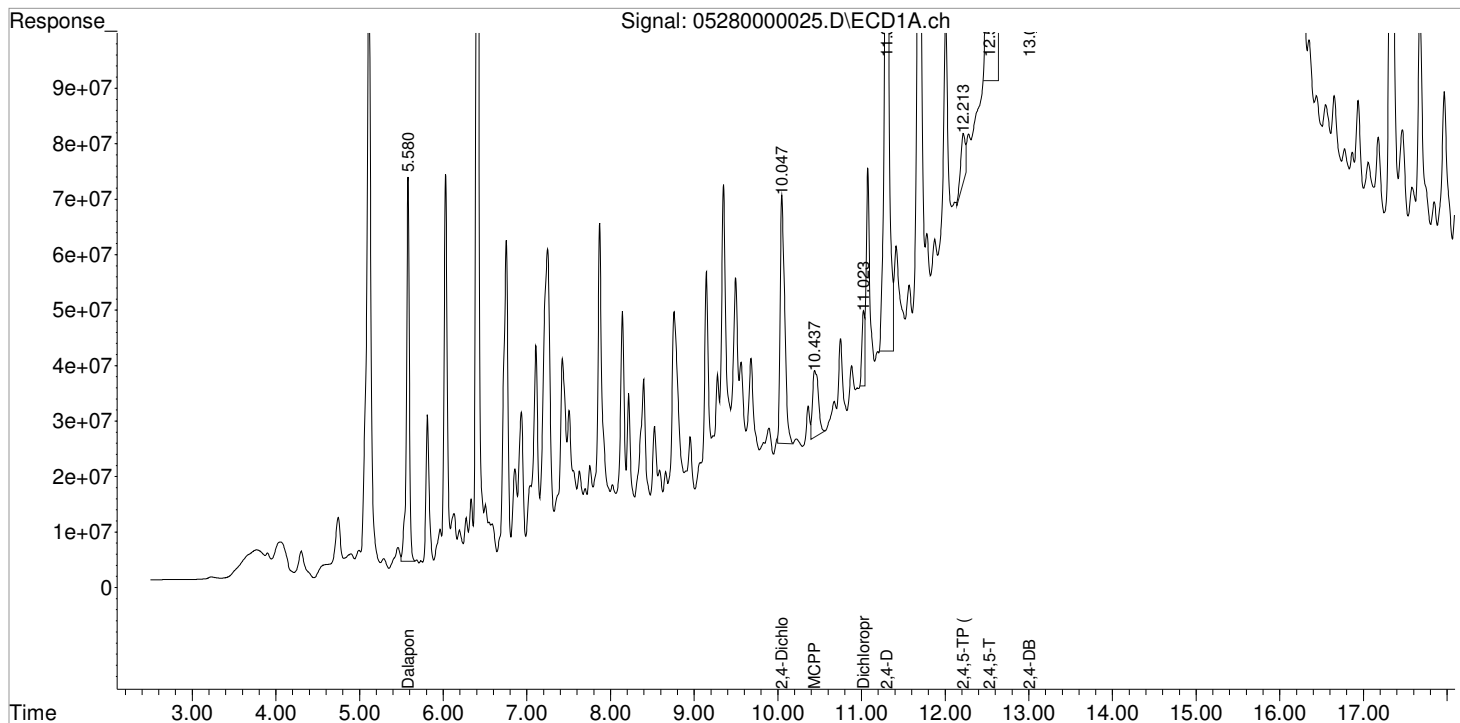
System Monitoring Compounds						
2) s 2,4-Dichl...	10.047	9.687	170.7E6	36697412	213.799m	80.890 #
Target Compounds						
1) m Dalapon	5.580	5.210	165.5E6	18571240	161.478	33.407 #
3) m Dicamba	0.000	9.900	0	4049733	N.D.	2.756 #
4) m MCPP	10.437	9.957	57826601	15764097	18122.197	9069.037 #
5) m MCPA	0.000	10.163f	0	11632749	N.D.	3683.038 #
6) m Dichloroprop	11.023	10.543f	31279244	8247472	44.068	17.692 #
7) m 2,4-D	11.300	10.893	496.7E6	408851	743.400	1.010m#
8) m 2,4,5-TP ...	12.213	11.773	35436143	5374320	12.164m	3.192m#
9) m 2,4,5-T	12.530f	12.183	808.1E6	196.6E6	374.270	158.266 #
10) m 2,4-DB	13.007f	12.637f	217.8E6	13175468	990.454	99.636 #
11) m Dinoseb	0.000	0.000	0	0	N.D.	N.D.

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

Data File : J:\GC34\DATA\052821-HB\05280000025.D Vial: 21
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29-May-2021, 01:20:19 Operator: TAP
Sample : K2104776-015 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 11:36:16 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

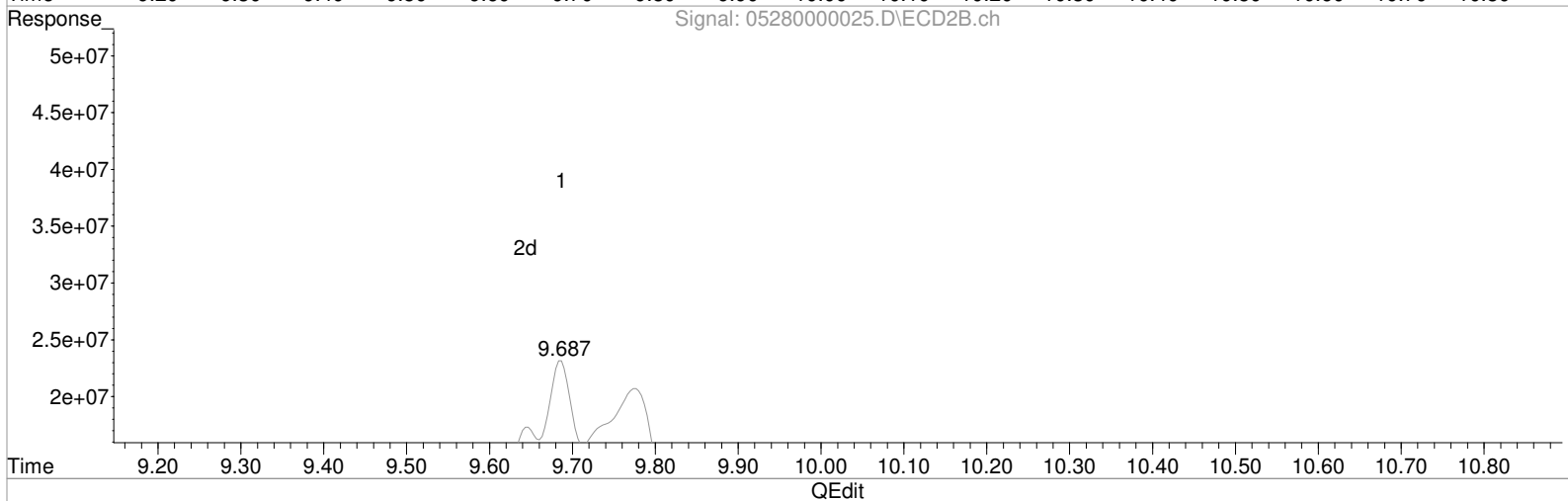
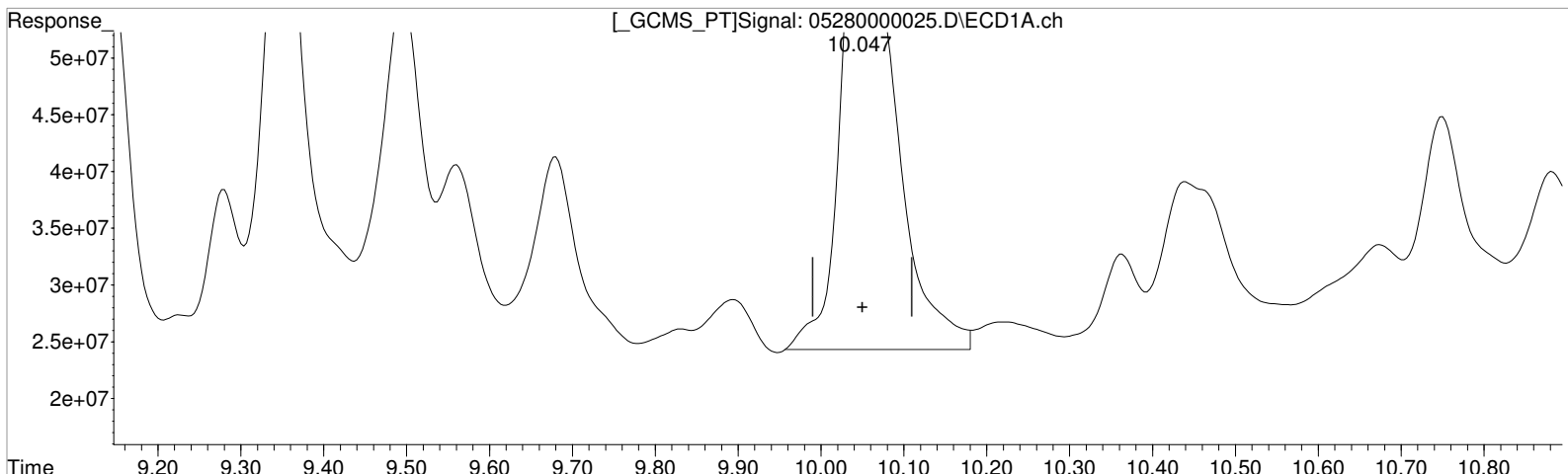
Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\052821-HB\05280000025.D Vial: 21
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29-May-2021, 01:20:19 Operator: TAP
Sample : K2104776-015 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:35:40 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



(2) 2,4-Dichlorophenylacetic Acid (s)

10.047min 241.761 ppb

response 192984880

Manual Integration:

Before

05/29/21

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

9.687min 80.890 ppb

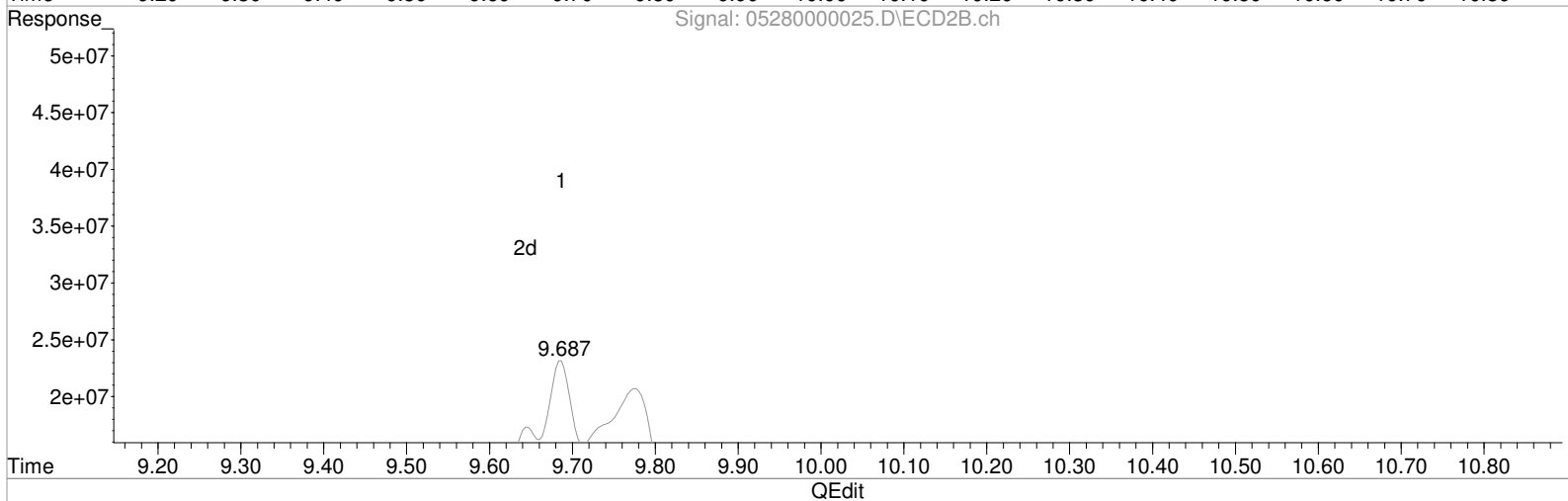
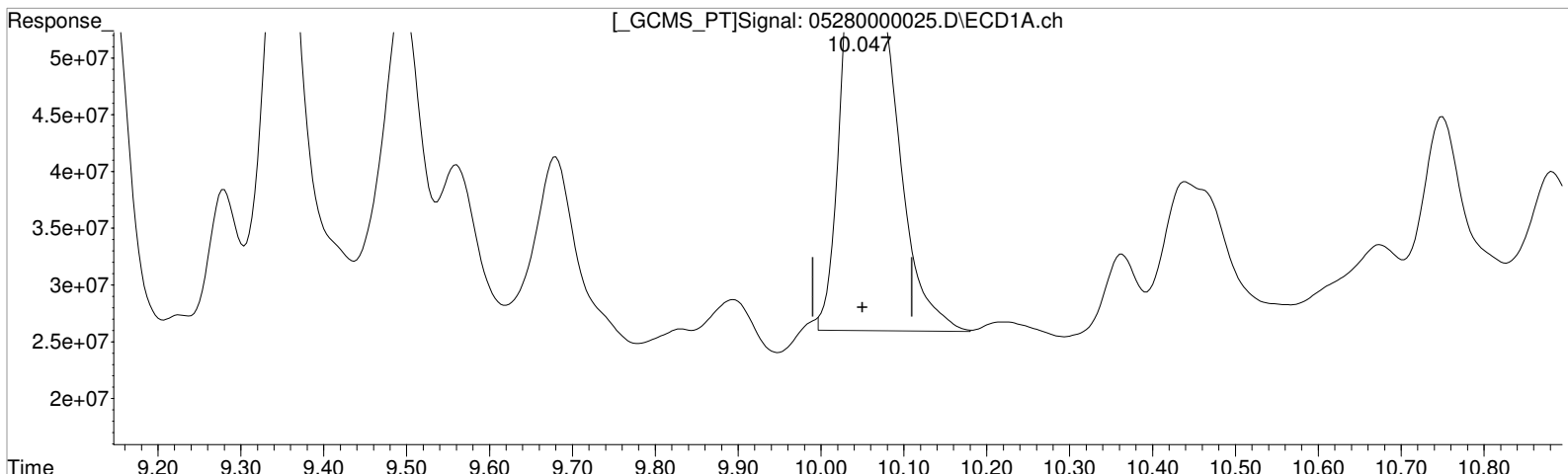
response 36697412

(+) = Expected Retention Time

Data File : J:\GC34\DATA\052821-HB\05280000025.D Vial: 21
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29-May-2021, 01:20:19 Operator: TAP
Sample : K2104776-015 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:35:40 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



(2) 2,4-Dichlorophenylacetic Acid (s)
10.047min 213.799 ppb m
response 170663594

Manual Integration:
After
Baseline/Shoulder
05/29/21

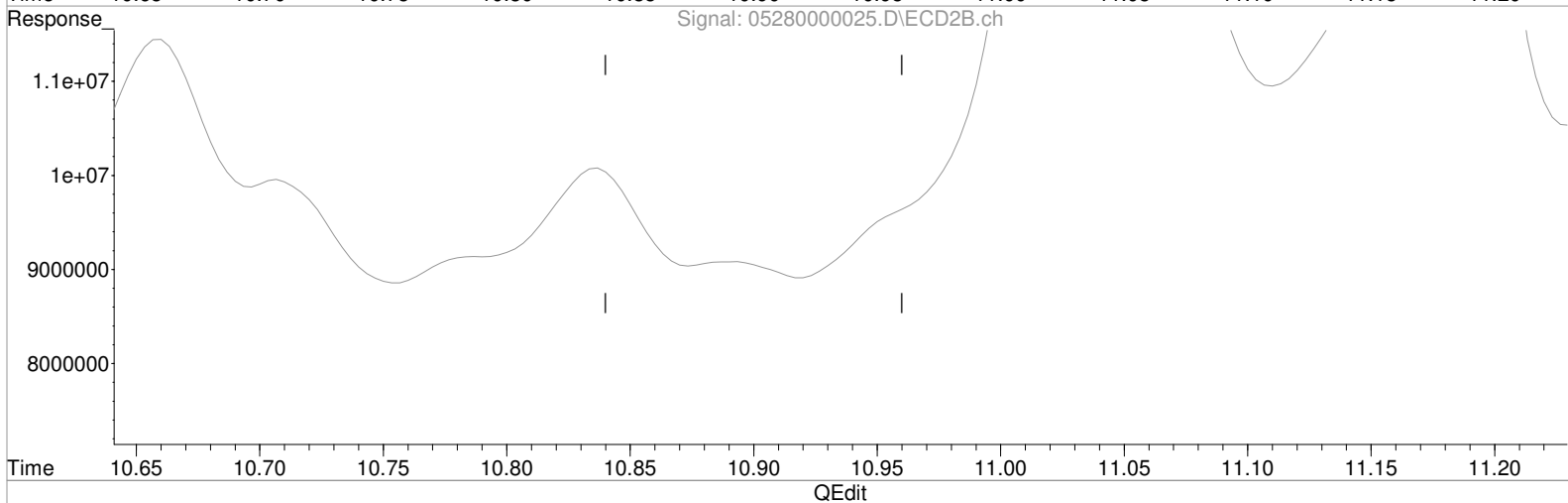
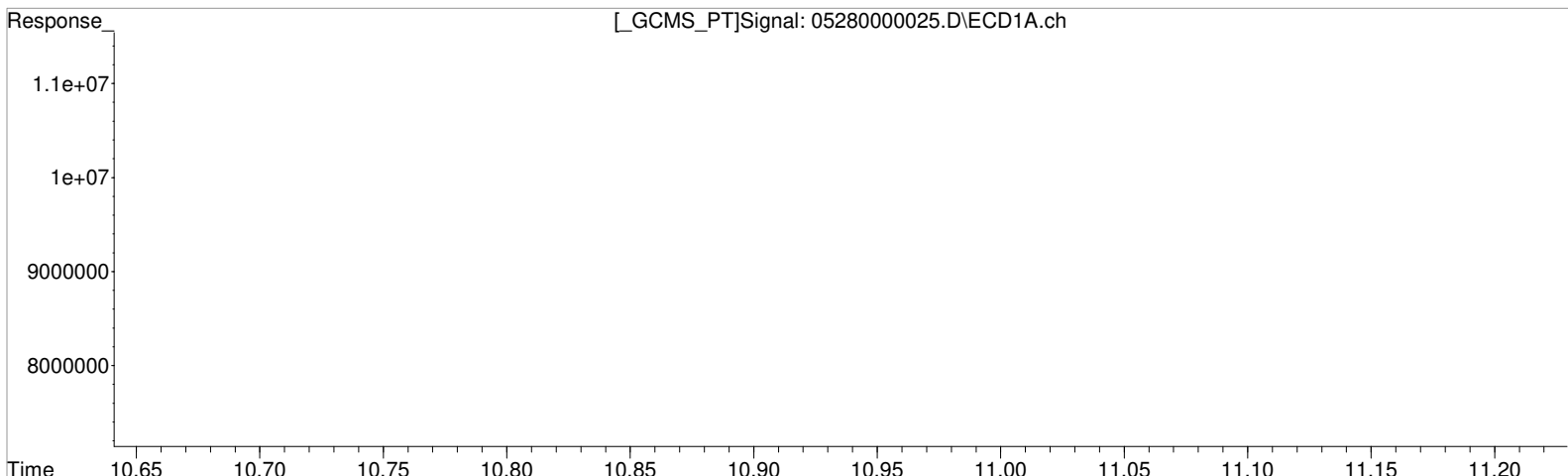
(2) 2,4-Dichlorophenylacetic Acid #2 (s)
9.687min 80.890 ppb
response 36697412

(+) = Expected Retention Time

Data File : J:\GC34\DATA\052821-HB\05280000025.D Vial: 21
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29-May-2021, 01:20:19 Operator: TAP
Sample : K2104776-015 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:35:40 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



(7) 2,4-D (m)
11.300min 743.400 ppb
response 496735246

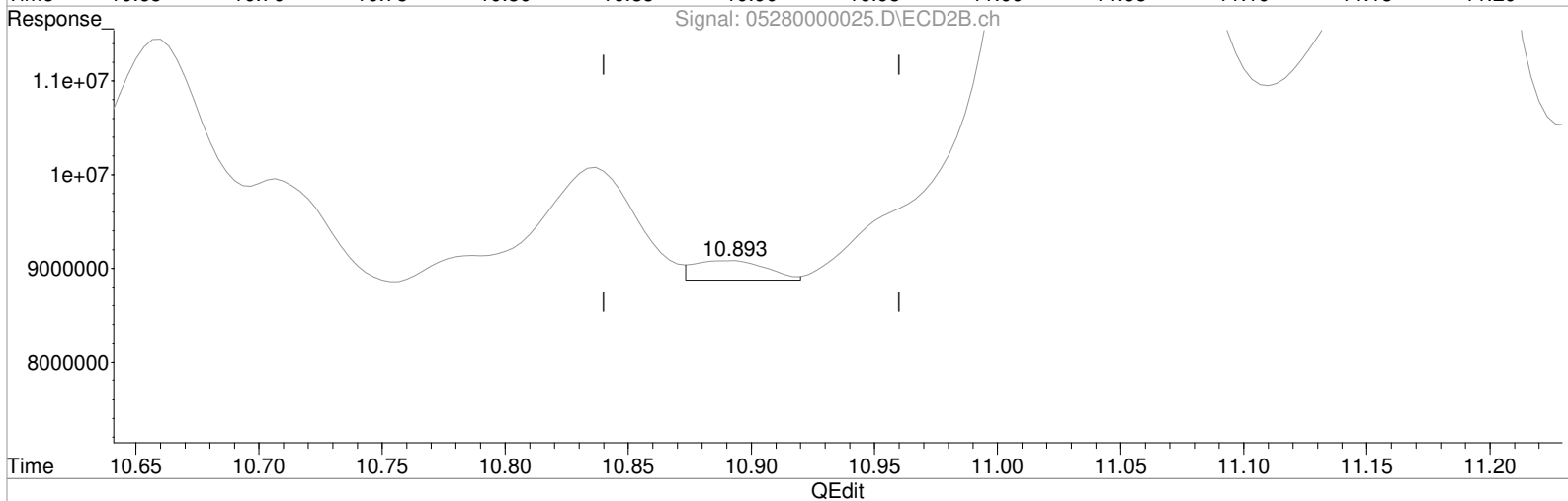
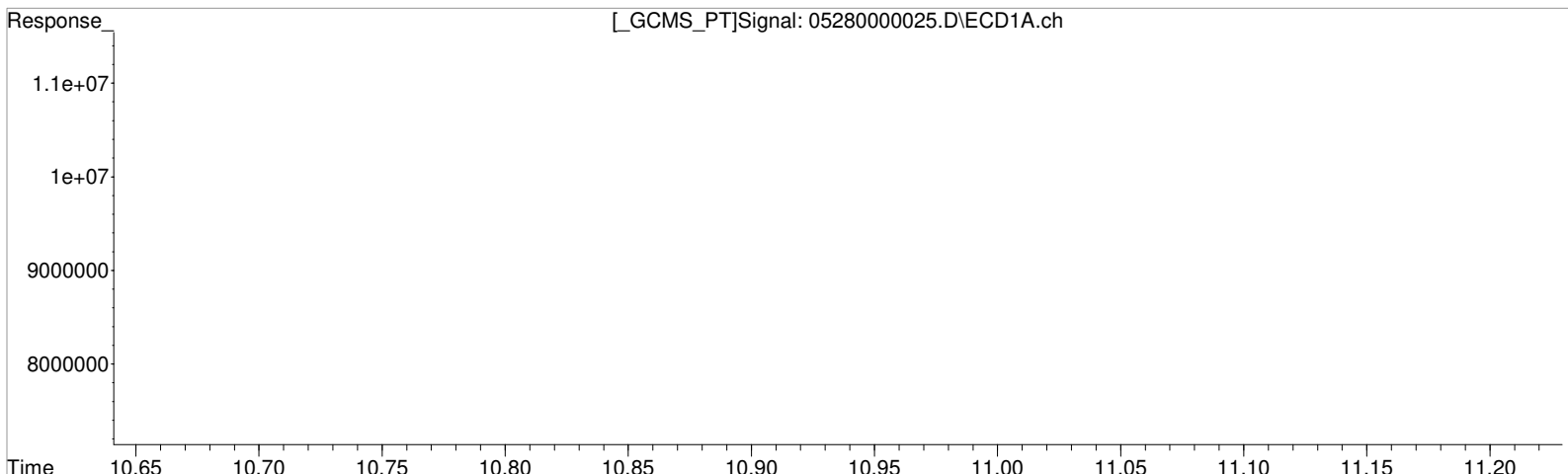
Manual Integration:
Before
05/29/21

(7) 2,4-D #2 (m)
0.000min 0.000 ppb
response 0

Data File : J:\GC34\DATA\052821-HB\05280000025.D Vial: 21
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29-May-2021, 01:20:19 Operator: TAP
 Sample : K2104776-015 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 10:35:40 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

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



(7) 2,4-D (m)
 11.300min 743.400 ppb
 response 496735246

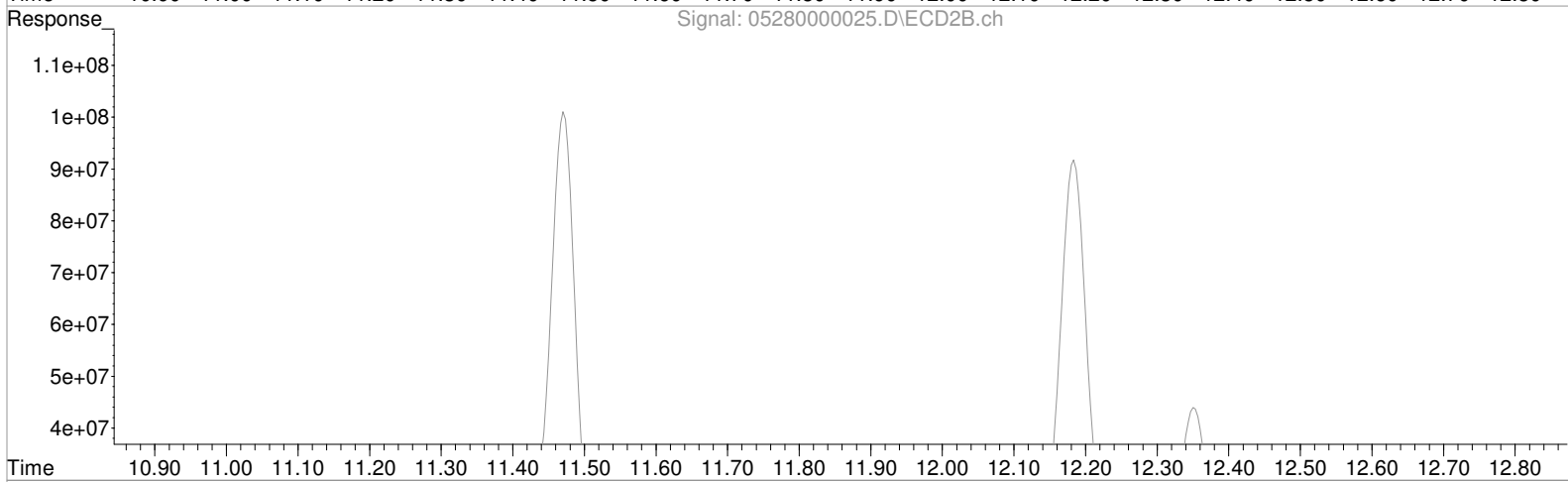
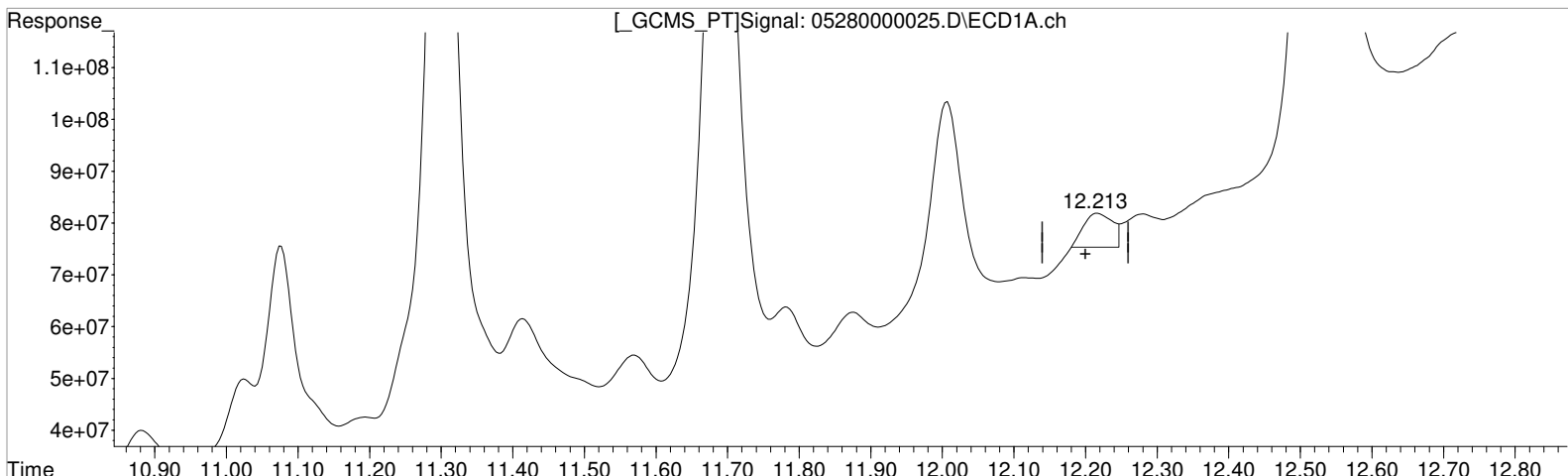
Manual Integration:
 After
 Missed Peak
 05/29/21

(7) 2,4-D #2 (m)
 10.893min 1.010 ppb m
 response 408851

Data File : J:\GC34\DATA\052821-HB\05280000025.D Vial: 21
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29-May-2021, 01:20:19 Operator: TAP
Sample : K2104776-015 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:35:40 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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



(8) 2,4,5-TP (Silvex) (m)
12.213min 6.586 ppb
response 19186619

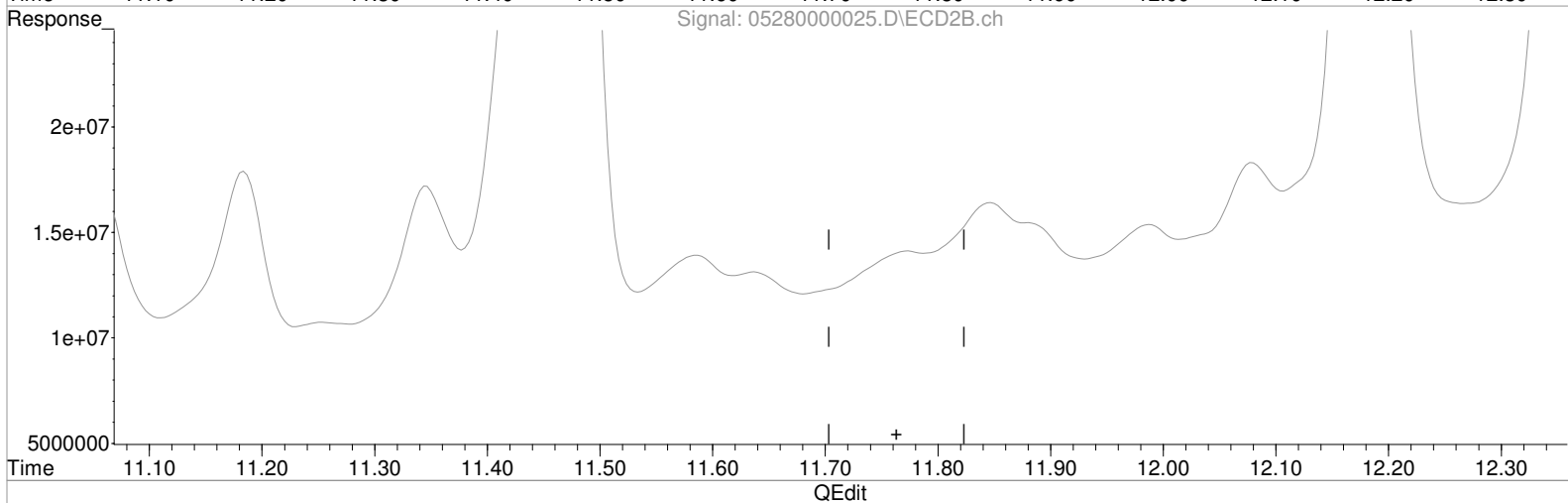
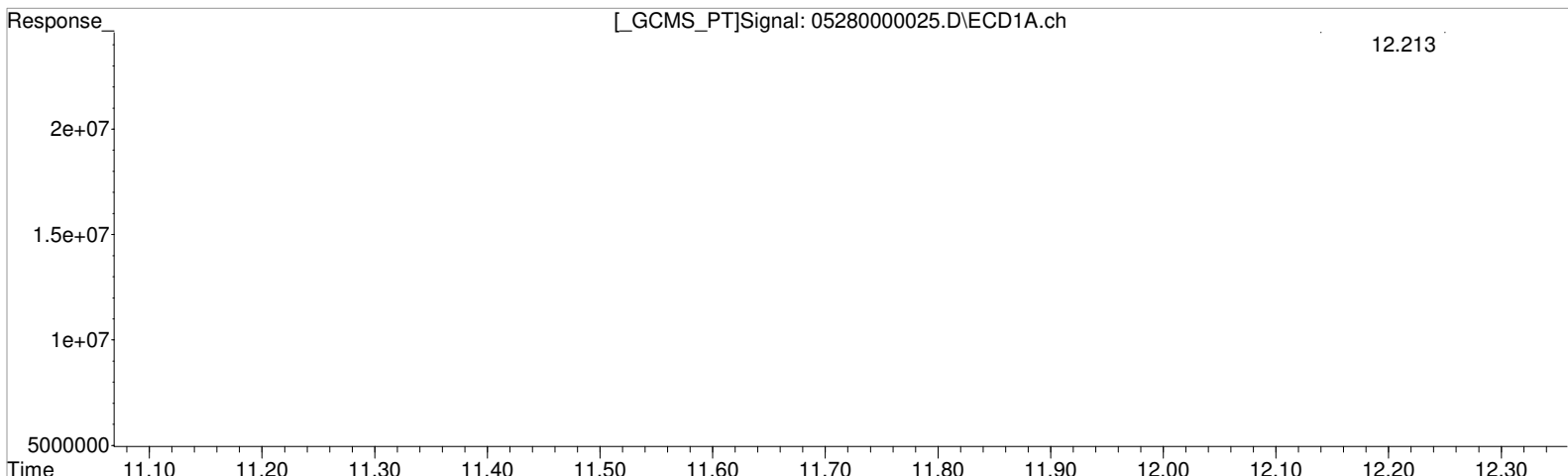
Manual Integration:
Before
05/29/21

(8) 2,4,5-TP (Silvex) #2 (m)
0.000min 0.000 ppb
response 0

Data File : J:\GC34\DATA\052821-HB\05280000025.D Vial: 21
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29-May-2021, 01:20:19 Operator: TAP
Sample : K2104776-015 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:35:40 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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



(8) 2,4,5-TP (Silvex) (m)
12.213min 12.164 ppb m
response 35436143

Manual Integration:
Before
05/29/21

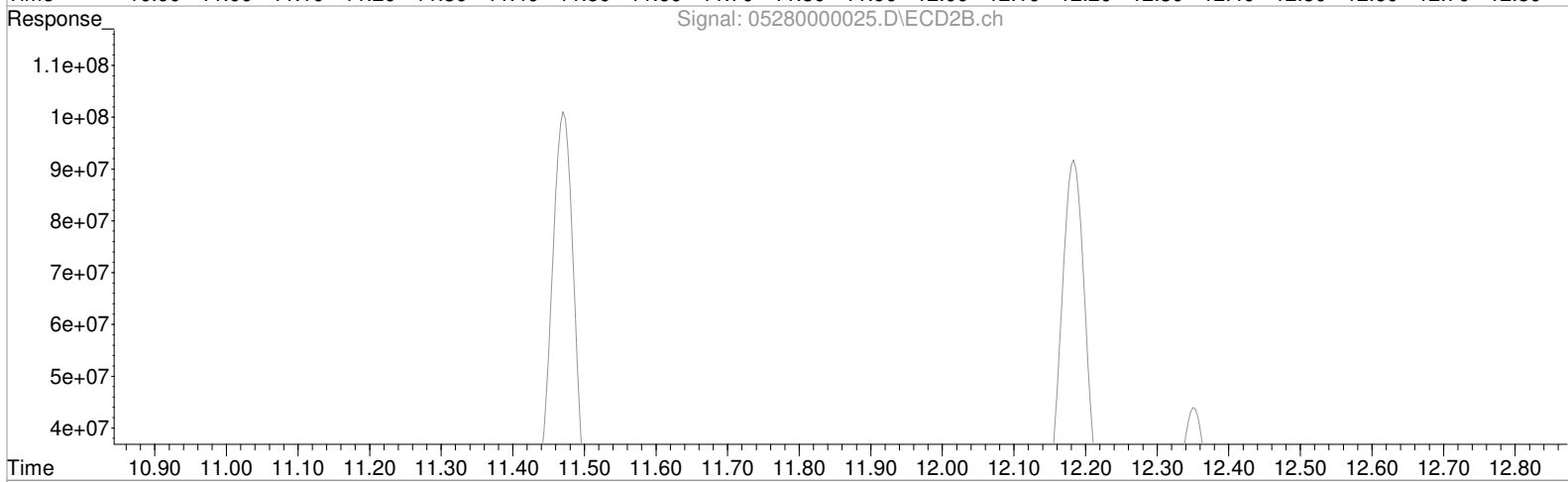
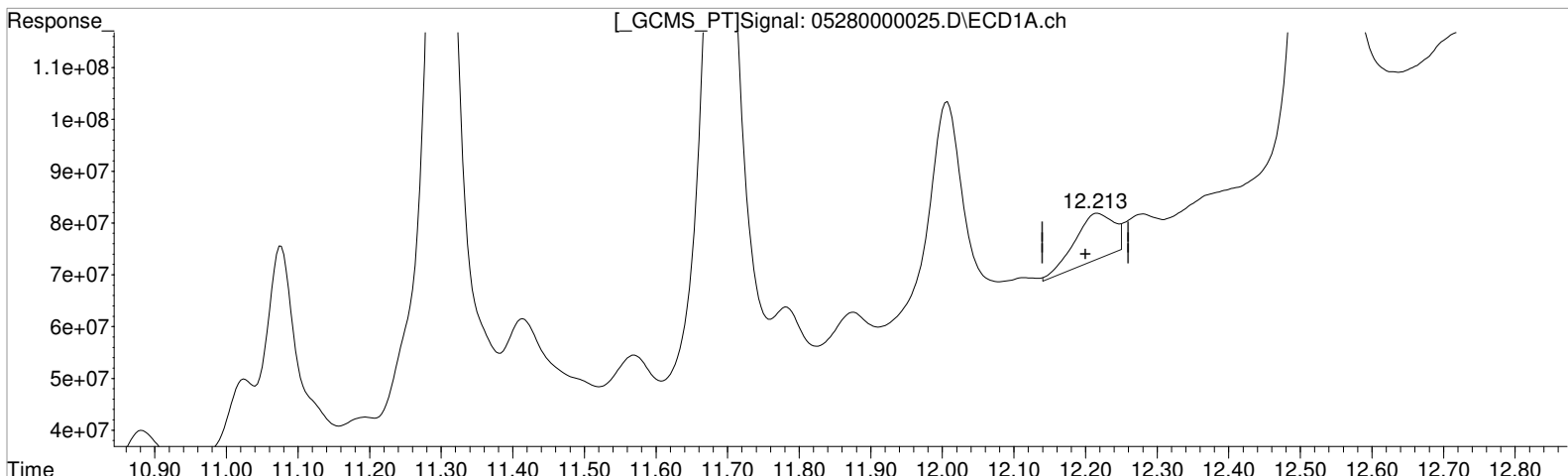
(8) 2,4,5-TP (Silvex) #2 (m)
0.000min 0.000 ppb
response 0

(+) = Expected Retention Time

Data File : J:\GC34\DATA\052821-HB\05280000025.D Vial: 21
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29-May-2021, 01:20:19 Operator: TAP
Sample : K2104776-015 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:35:40 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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



(8) 2,4,5-TP (Silvex) (m)
12.213min 12.164 ppb m
response 35436143

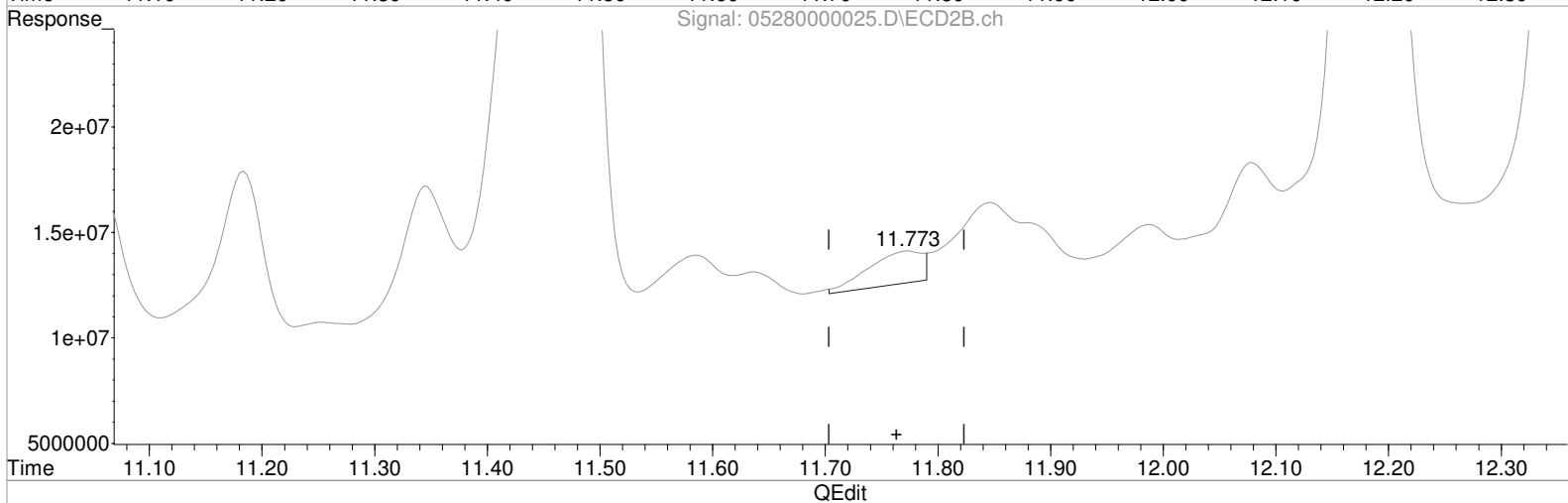
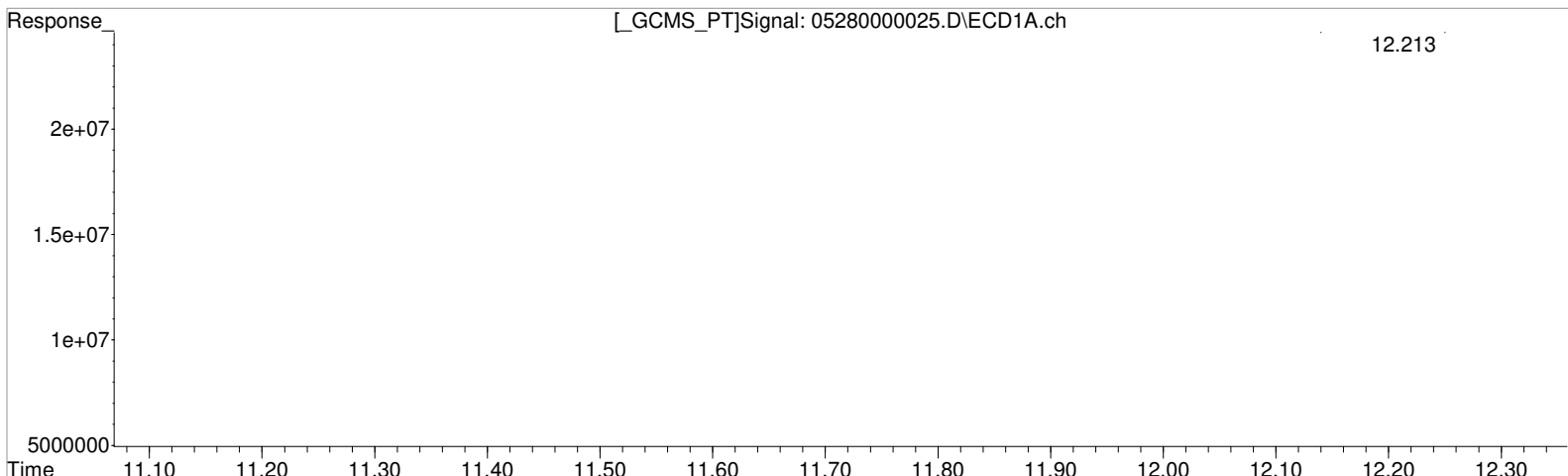
Manual Integration:
After
Baseline/Shoulder
05/29/21

(8) 2,4,5-TP (Silvex) #2 (m)
0.000min 0.000 ppb
response 0

Data File : J:\GC34\DATA\052821-HB\05280000025.D Vial: 21
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29-May-2021, 01:20:19 Operator: TAP
Sample : K2104776-015 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:35:40 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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





(8) 2,4,5-TP (Silvex) (m)
12.213min 12.164 ppb m
response 35436143

(8) 2,4,5-TP (Silvex) #2 (m)
11.773min 3.192 ppb m
response 5374320

Manual Integration:
After
Missed Peak
05/29/21

Validation Report

1st  05/29/21
2nd  05/29/21

Data File: J:\GC34\DATA\052821-HB\05280000026.D\
Lab ID: K2104776-016
RunType: N/A
Matrix: Sediment

Date Acquired: 5/29/21 01:44:13
Batch ID: 725573
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	

Sample Exceptions

Exception Categories	Result	Corrective Action
Preparation Hold Time	Prep Date/Time: 05/26/2021 1610 Hold Date/Time: 05/14/2021 2359	See narrative

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - Rtx-CLPesticides	2,4,5-TP	26		20	CCV+ND
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides	2,4,5-TP	27		20	CCV+ND

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *K* 05/29/21
2nd *FW* 05/29/21

Data File: J:\GC34\DATA\052821-HB\05280000026.D\	Instrument: K-GC-34
Acqu Date: 5/29/21 01:44:13	Vial: 22
Run Type: N/A	Dilution: 1
Lab ID: K2104776-016	Raw Units: ppb

Bottle ID: K2104776-016.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 4/30/21	Receive Date: 5/3/21

Analysis Lot: 725573	Prep Lot: 380155	Report Group: K2104776
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 5/26/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100249
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	10.04	9.69	72612404	41465774	90.965	91.401	91	91	91	26 - 127	N

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	0.00	0.00	0	0	0.000 ^{ccv}	0.000	0U	0U	27 U	N
2,4-D	11.30 ^{+0.04}	0.00	117505689	0	175.856	0.000	3200	0U	84 U	N

Prep Amount: 3.6470 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 75.80

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

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

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

Printed: 5/29/21 12:15

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Data File : J:\GC34\DATA\052821-HB\05280000026.D Vial: 22
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29-May-2021, 01:44:13 Operator: TAP
 Sample : K2104776-016 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 11:38:15 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 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...	10.043	9.687	72612404	41465774	90.965m	91.401m
Target Compounds						
1) m Dalapon	5.580	5.210	16020286	6572731	15.631	11.824
3) m Dicamba	10.280	9.960f	110.6E6	967905	42.753	0.659 #
4) m MCPP	0.000	9.960	0	967905	N.D.	N.D.
5) m MCPA	0.000	0.000	0	0	N.D.	N.D.
6) m Dichloroprop	11.020	0.000	13813893	0	19.462	N.D. #
7) m 2,4-D	11.300	0.000	117.5E6	0	175.856	N.D. #
8) m 2,4,5-TP ...	0.000	0.000	0	0	N.D.	N.D.
9) m 2,4,5-T	12.533f	12.180	342.6E6	42927723	158.664	34.549 #
10) m 2,4-DB	13.007f	12.633f	37086604	4550517	168.658	34.412 #
11) m Dinoseb	0.000	0.000	0	0	N.D.	N.D.

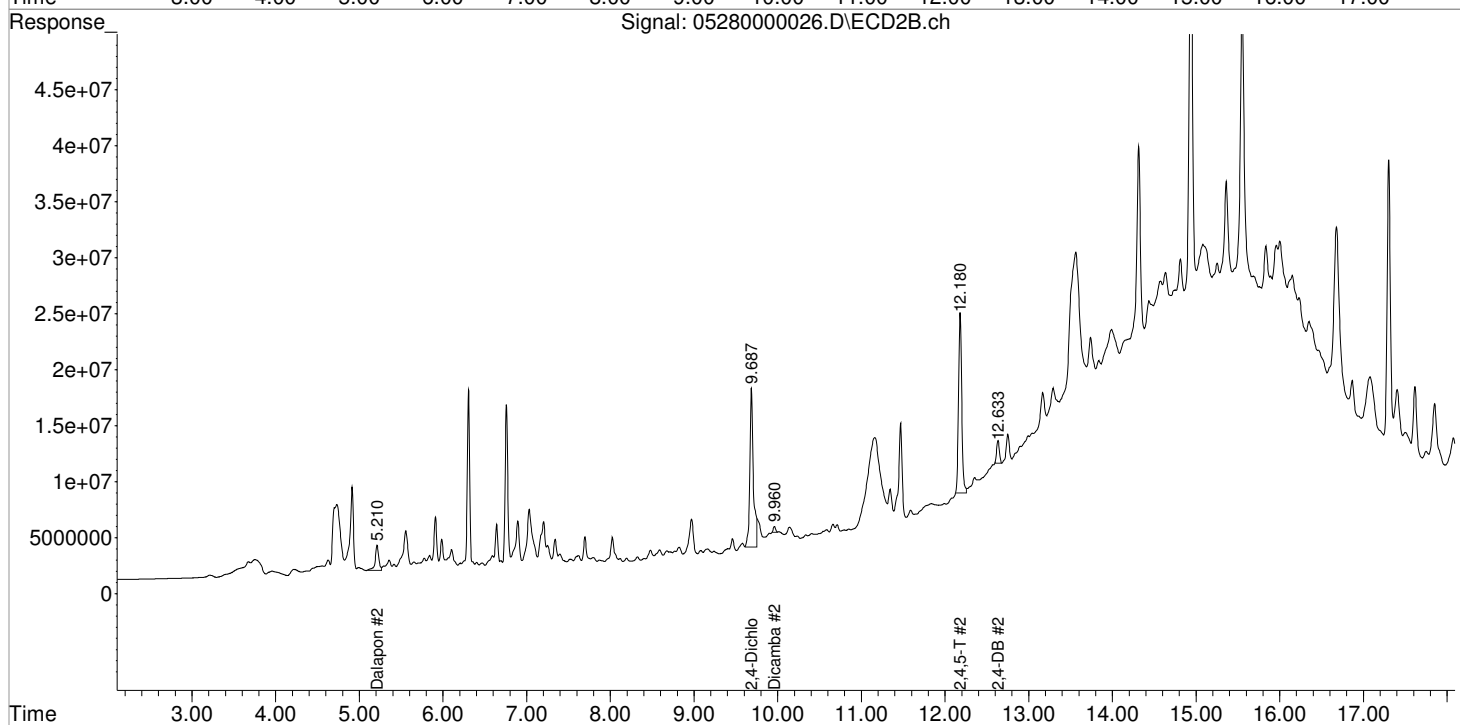
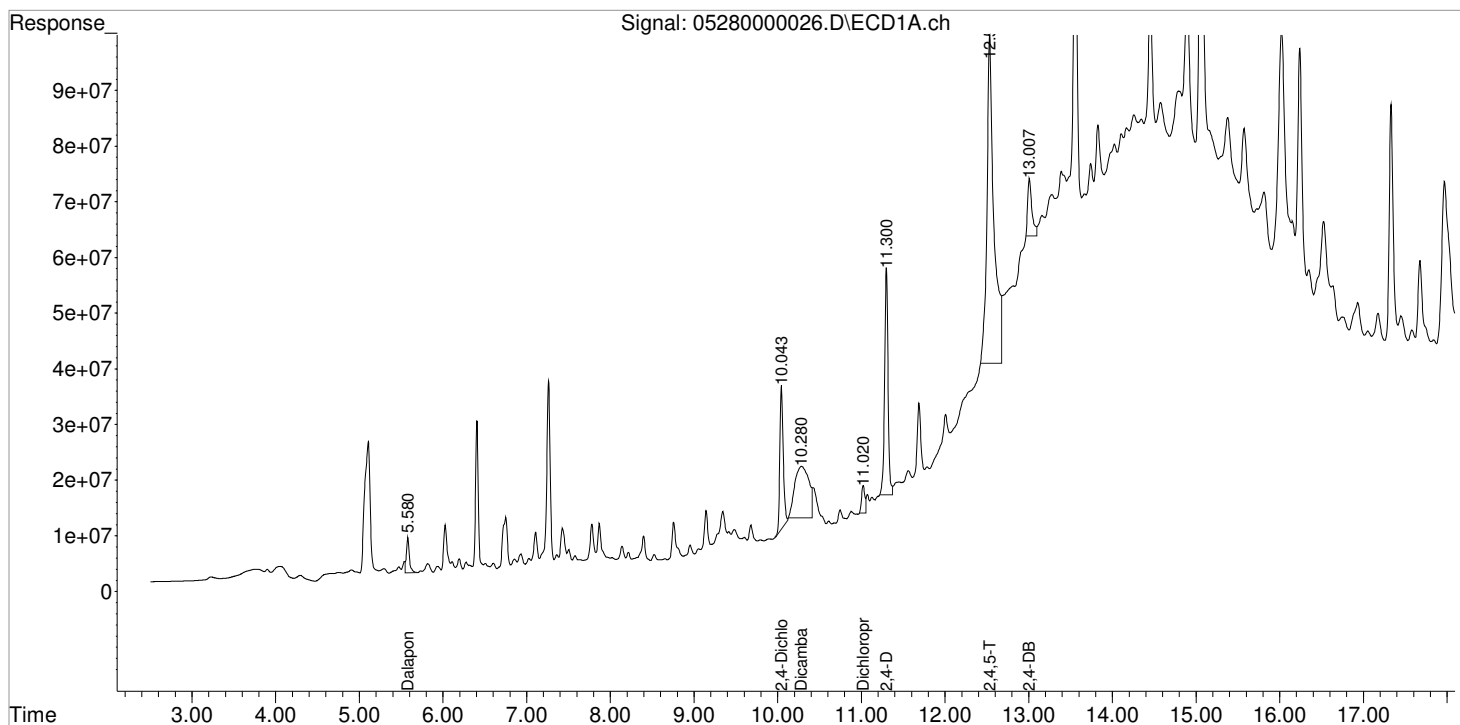
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\052821-HB\05280000026.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29-May-2021, 01:44:13
Sample : K2104776-016
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 11:38:15 2021
Quant Results File: 050621_8151.RES

Vial: 22
Operator: TAP
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

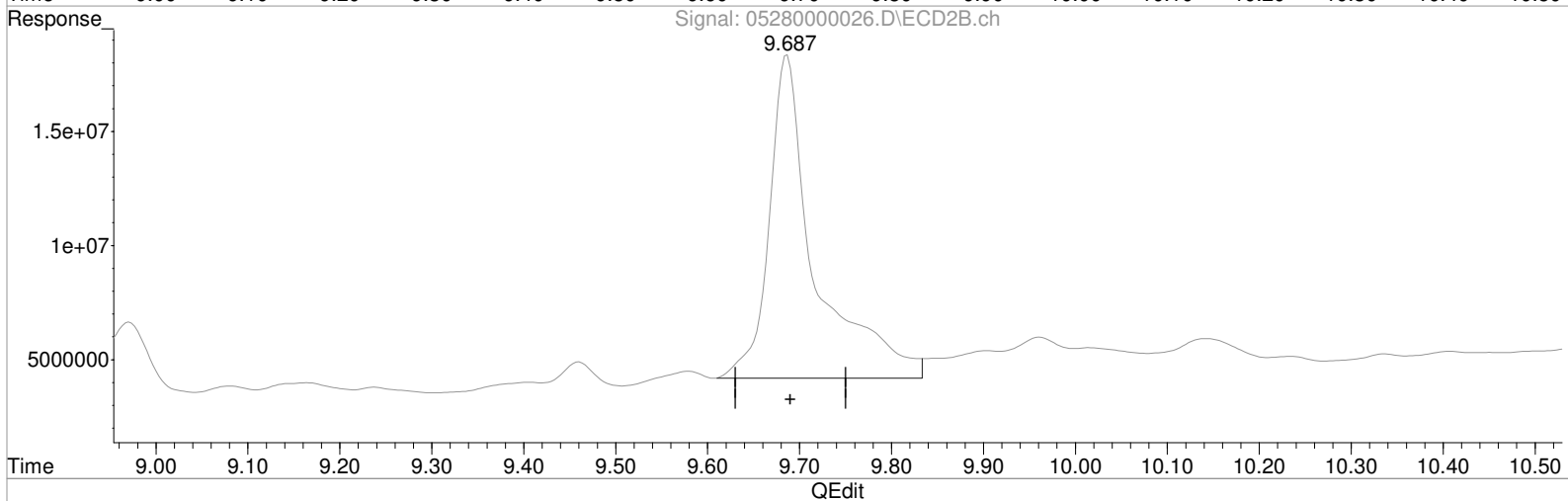
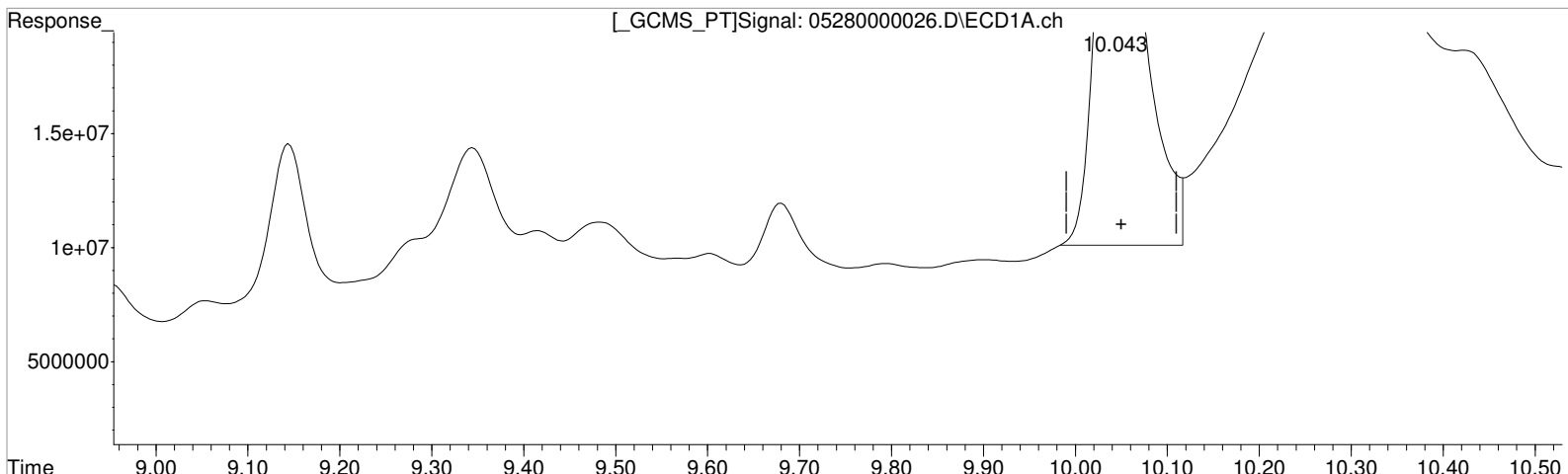
Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\052821-HB\05280000026.D Vial: 22
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29-May-2021, 01:44:13 Operator: TAP
Sample : K2104776-016 Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:35:43 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



(2) 2,4-Dichlorophenylacetic Acid (s)

10.043min 103.474 ppb
response 82597947

Manual Integration:

Before

05/29/21

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

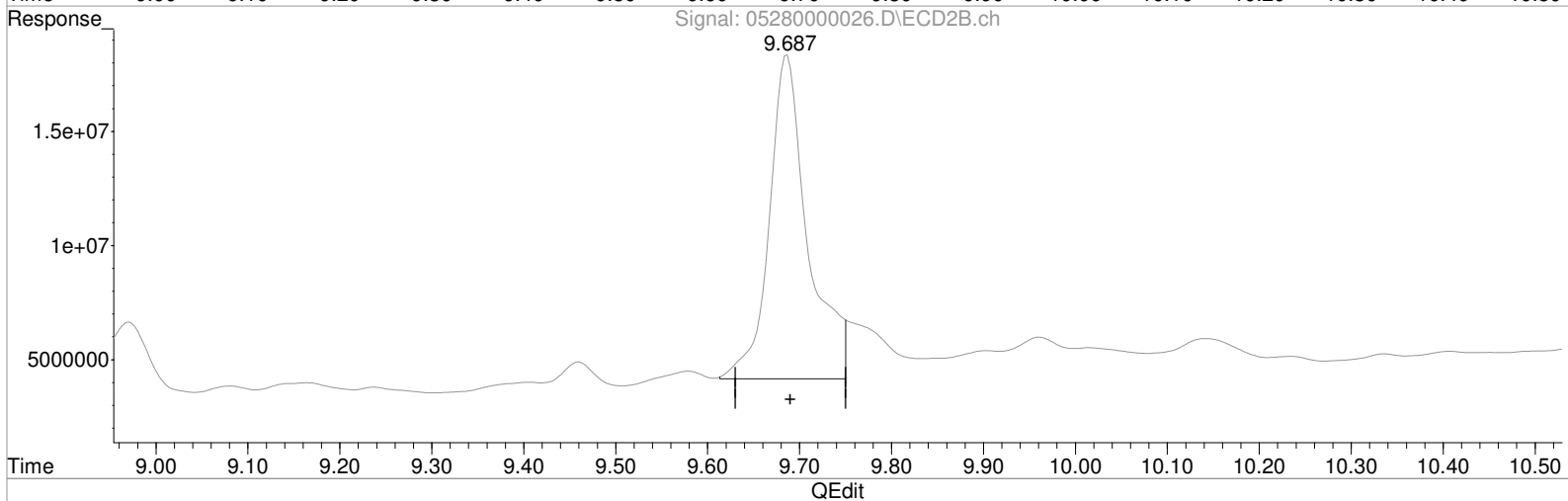
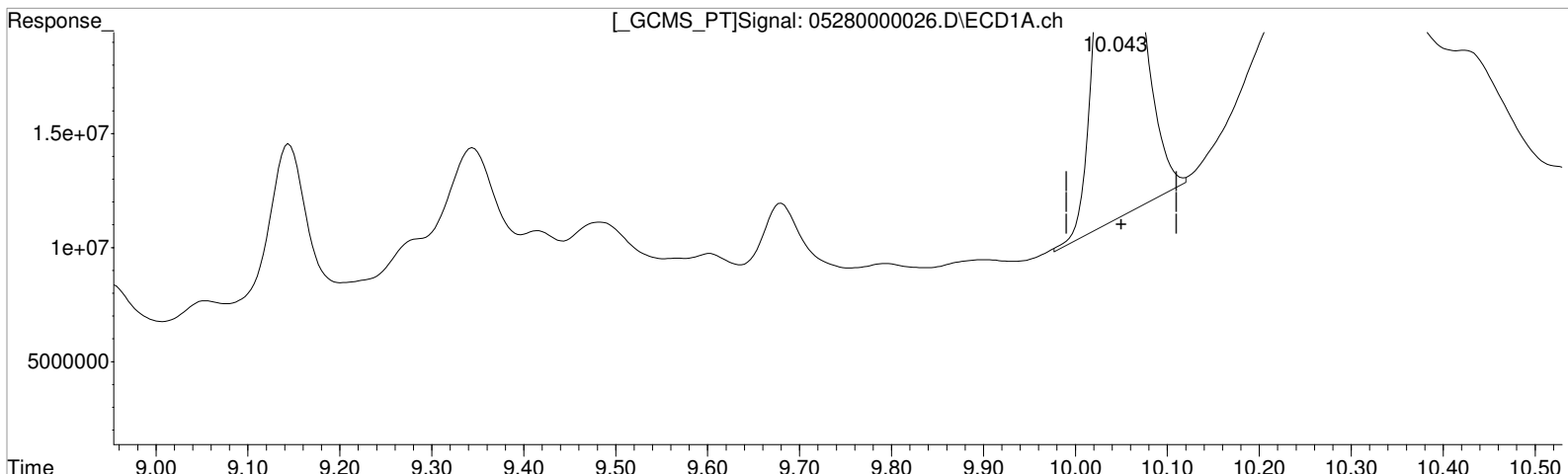
9.687min 108.419 ppb
response 49186635

(+) = Expected Retention Time

Data File : J:\GC34\DATA\052821-HB\05280000026.D Vial: 22
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29-May-2021, 01:44:13 Operator: TAP
 Sample : K2104776-016 Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 10:35:43 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

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



(2) 2,4-Dichlorophenylacetic Acid (s)

10.043min 90.965 ppb m
 response 72612404

Manual Integration:

After
 Baseline/Shoulder
 05/29/21

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

9.687min 91.401 ppb m
 response 41465774

(+) = Expected Retention Time

Validation Report

1st *[Signature]* 05/29/21
 2nd *[Signature]* 05/29/21

Data File: J:\GC34\DATA\052821-HB\0528000006.D\
Lab ID: KQ2109374-04
RunType: MB
Matrix: Sediment

Date Acquired: 5/28/21 17:47:08
Batch ID: 725573
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
Continuing Calibration Recovery - Rtx-CLPesticides	Dicamba	22		20	NR
	MCPP	26		20	NR
	2,4,5-TP (Silvex)	21		20	CCV+ND
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides	2,4-DB	22		20	NR
	MCPP	22		20	NR
	2,4,5-TP (Silvex)	26		20	CCV+ND
	2,4,5-T	23		20	NR
	2,4-DB	52		20	NR

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *K* 05/29/21
2nd *FW* 05/29/21

Data File: J:\GC34\DATA\052821-HB\0528000006.D\	Instrument: K-GC-34
Acqu Date: 5/28/21 17:47:08	Vial: 26
Run Type: MB	Dilution: 1
Lab ID: KQ2109374-04	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 4/30/21	Receive Date: 5/3/21

Analysis Lot: 725573	Prep Lot: 380155	Report Group: KQ2109374
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 5/26/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100249
	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	9.69	52511221	24956025	65.783	55.009	66	55	55	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 ^{CCV}	0.000	0U	0U	4.0 U	Y
2,4,5-TP (Silvex)	12.19	11.76 ^{+0.01}	208459	461624	0.072 ^{CCV}	0.274	0.12U	0.44U	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	13.04 ^{-0.01}	12.71 ^{+0.04}	260398	531551	1.184 ^{CCV}	4.020	1.9U	6.5U	5.4 U	Y
Dalapon	5.63 ^{+0.04}	5.23 ^{+0.01}	873731	299362	0.852	0.539	1.4U	0.87U	5.5 U	Y
Dicamba	0.00	0.00	0	0	0.000 ^{CCV}	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	0.00	0	0	0.000	0.000	0U	0U	320 U	Y
MCPP	0.00	0.00	0	0	0.000 ^{CCV}	0.000	0U	0U	460 U	Y

Prep Amount: 30.9220 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

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Data File : J:\GC34\DATA\052821-HB\05280000006.D Vial: 4
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28-May-2021, 17:47:08 Operator: TAP
 Sample : KQ2109374-04 MB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 10:59:53 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 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...	10.043	9.687	52511221	24956025	65.783	55.009
Target Compounds						
1) m Dalapon	5.630f	5.233	873731	299362	0.852	0.539 #
3) m Dicamba	0.000	0.000	0	0	N.D.	N.D.
4) m MCPP	0.000	0.000	0	0	N.D. d	N.D.
5) m MCPA	0.000	0.000	0	0	N.D. d	N.D.
6) m Dichloroprop	0.000	0.000	0	0	N.D.	N.D. d
7) m 2,4-D	0.000	0.000	0	0	N.D. d	N.D.
8) m 2,4,5-TP ...	12.187	11.760	208459	461624	0.072	0.274 #
9) m 2,4,5-T	0.000	0.000	0	0	N.D.	N.D.
10) m 2,4-DB	13.040	12.707f	260398	531551	1.184	4.020 #
11) m Dinoseb	0.000	0.000	0	0	N.D.	N.D. d

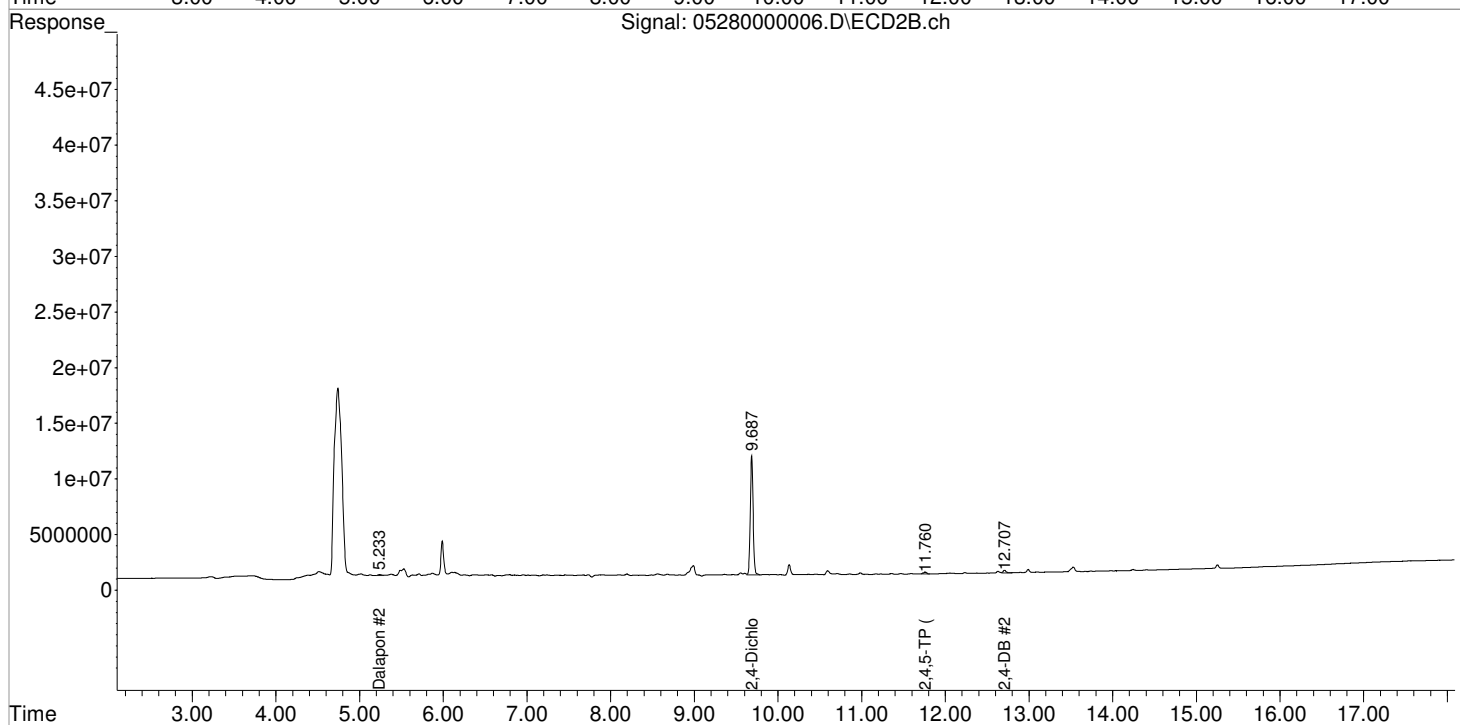
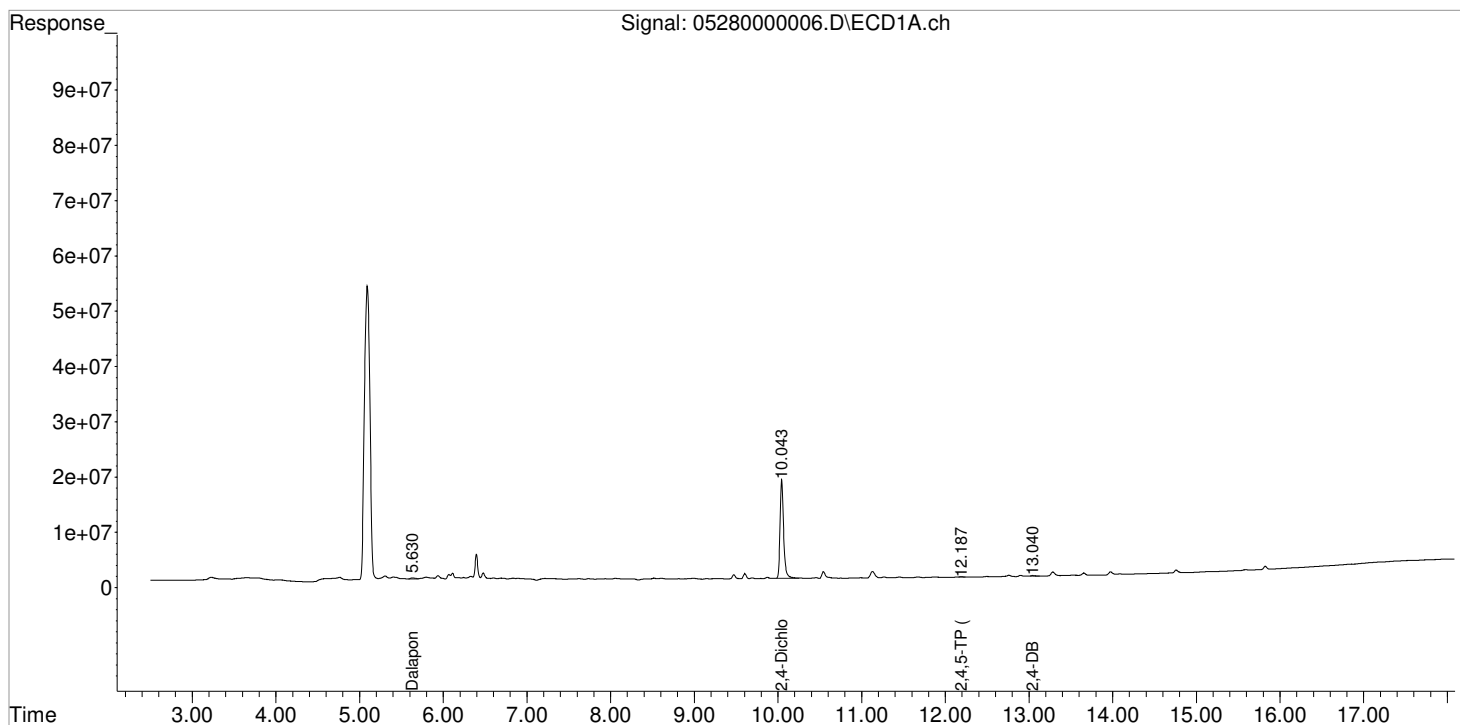
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\052821-HB\05280000006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 17:47:08
Sample : KQ2109374-04 MB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:59:53 2021
Quant Results File: 050621_8151.RES

Vial: 4
Operator: TAP
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



Validation Report

1st 05/29/21
2nd 05/29/21

Data File: J:\GC34\DATA\052821-HB\0528000005.D\
Lab ID: KQ2109374-03
RunType: LCS
Matrix: Sediment

Date Acquired: 5/28/21 17:23:10
Batch ID: 725573
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
Continuing Calibration Recovery - Rtx-CLPesticides	Dicamba	22		20	NR
	MCPP	26		20	NR
	2,4,5-TP (Silvex)	21		20	RO
	2,4-DB	22		20	NR
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides	MCPP	22		20	NR
	2,4,5-TP (Silvex)	26		20	RO
	2,4,5-T	23		20	NR
	2,4-DB	52		20	NR

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *SW* 05/29/21
2nd *SW* 05/29/21

Data File: J:\GC34\DATA\052821-HB\0528000005.D\	Instrument: K-GC-34
Acqu Date: 5/28/21 17:23:10	Vial: 25
Run Type: LCS	Dilution: 1
Lab ID: KQ2109374-03	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 4/30/21	Receive Date: 5/3/21

Analysis Lot: 725573	Prep Lot: 380155	Report Group: KQ2109374
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 5/26/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100249
	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	9.69	65216959	30631926	81.700	67.520	82	68	68	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?	
2,4,5-T	12.48	12.15	148853950	71562729	68.942 ^{CCV}	57.595	115	96.0	96.0	NR	Y
2,4,5-TP (Silvex)	12.19	11.76 ^{+0.01}	224275491	111853804	76.988 ^{CCV}	66.426	128	111	111		Y
2,4-D	11.26	10.89	48672665	24687427	72.842	60.991	121	102	102		Y
2,4-DB	13.05	12.67	21695494	9090325	98.664 ^{CCV}	68.743	164	115	115	NR	Y
Dalapon	5.59	5.23 ^{+0.01}	57587839	30903881	56.187	55.592	93.6	92.7	92.7	NR	Y
Dicamba	10.28	9.90	228307588	107192078	88.281 ^{CCV}	72.941	147	122	122	NR	Y
Dichlorprop	11.02	10.57	56116027	29255029	79.059	69.763	132	116	116	NR	Y
Dinoseb	14.28	13.03	84236684	43513123	43.338	38.000	72.2	63.3	63.3	NR	Y
MCPA	10.59	10.20	44791051	17246749	8957.290	5887.405	14900	9810	9810	NR P	Y
MCPP	10.43	9.96	29594199	15277604	8898.653 ^{CCV}	8766.037	14800	14600	14600	NR	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

Printed: 5/29/21 12:15

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Data File : J:\GC34\DATA\052821-HB\05280000005.D Vial: 3
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28-May-2021, 17:23:10 Operator: TAP
 Sample : KQ2109374-03 LCS Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 10:34:40 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 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...	10.043	9.687	65216959	30631926	81.700	67.520
Target Compounds						
1) m Dalapon	5.587	5.227	57587839	30903881	56.187	55.592
3) m Dicamba	10.280	9.900	228.3E6	107.2E6	88.281	72.941
4) m MCPP	10.427	9.963	29594199	15277604	8898.653	8766.037
5) m MCPA	10.590	10.203	44791051	17246749	8957.290	5887.405 #
6) m Dichloroprop	11.020	10.573	56116027	29255029	79.059	69.763
7) m 2,4-D	11.263	10.893	48672665	24687427	72.842	60.991
8) m 2,4,5-TP ...	12.187	11.757	224.3E6	111.9E6	76.988	66.426
9) m 2,4,5-T	12.480	12.150	148.9E6	71562729	68.942	57.595
10) m 2,4-DB	13.047	12.667	21695494	9090325	98.664	68.743 #
11) m Dinoseb	14.280	13.027	84236684	43513123	43.338	38.000

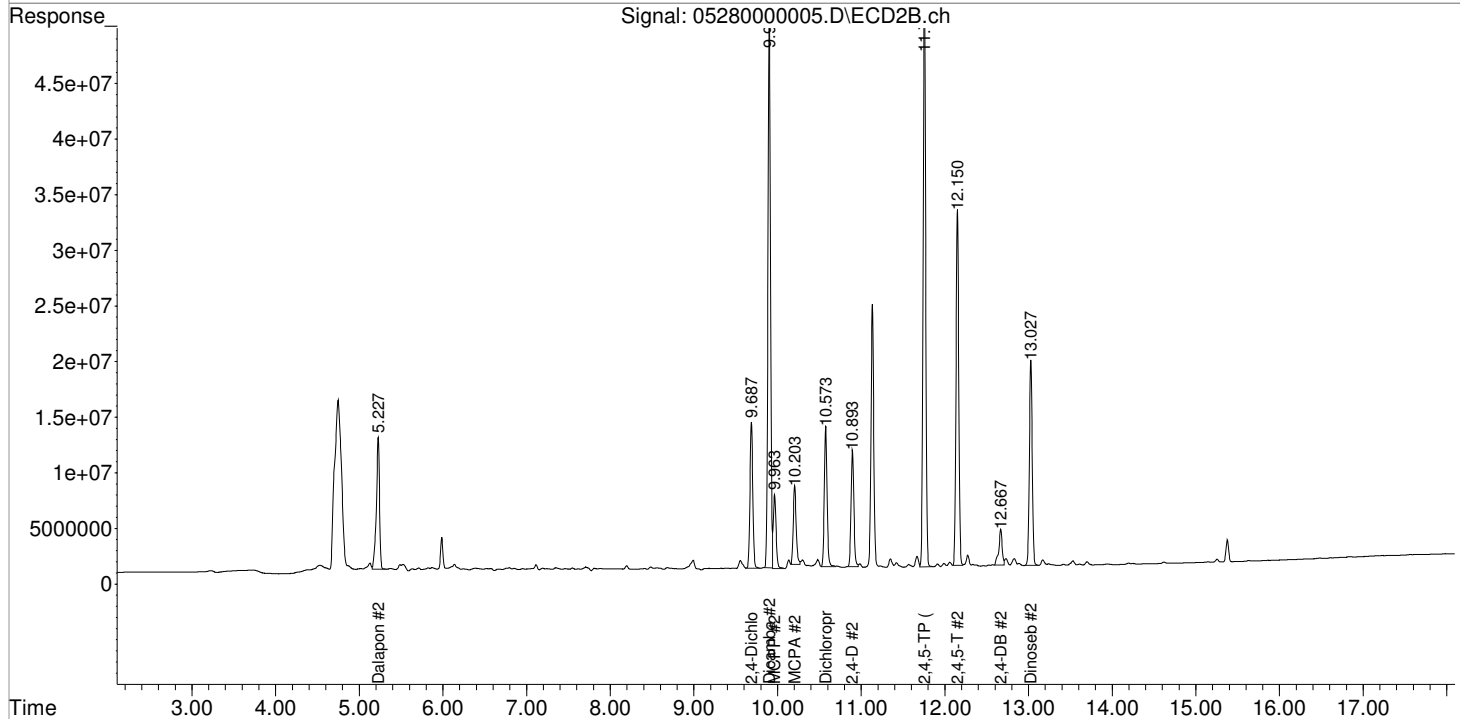
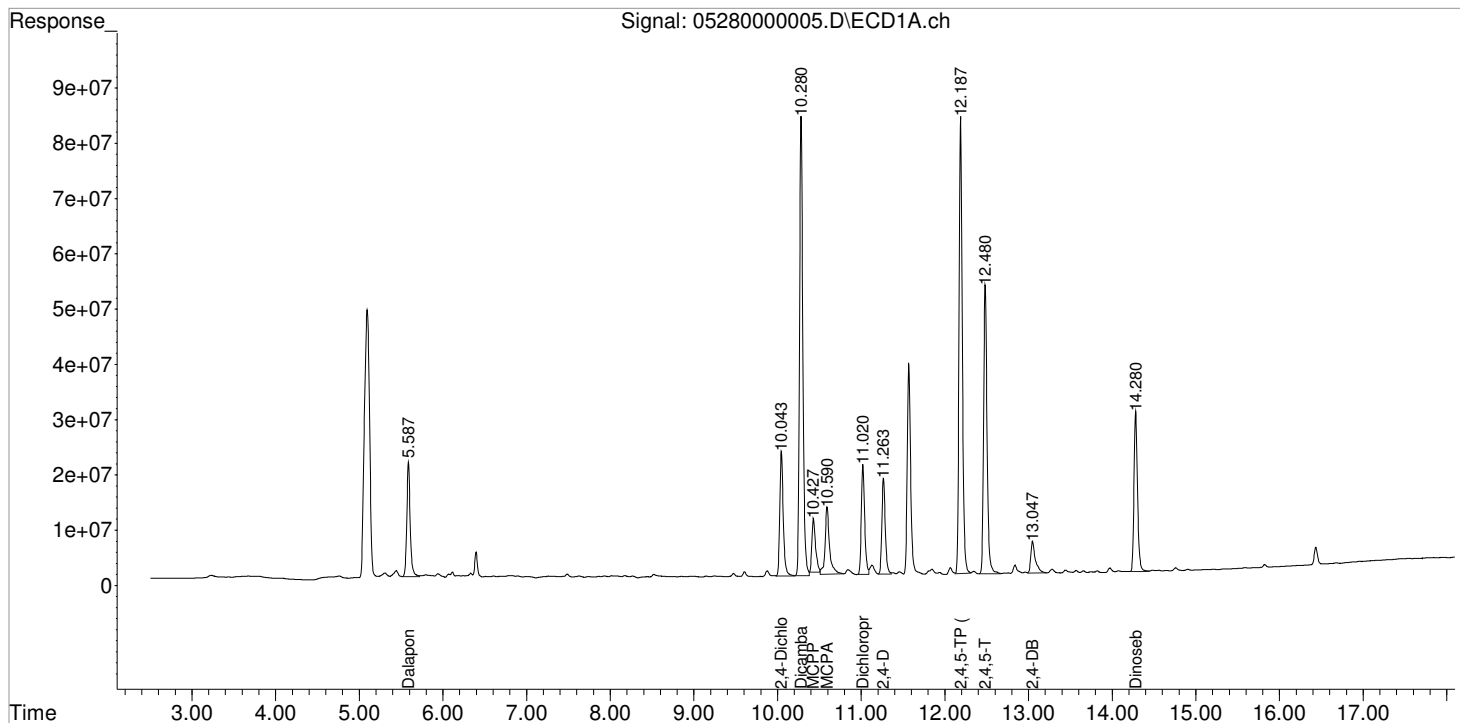
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\052821-HB\05280000005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 17:23:10
Sample : KQ2109374-03 LCS
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:34:40 2021
Quant Results File: 050621_8151.RES



Vial: 3
Operator: TAP
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



Validation Report

1st  05/29/21
2nd  05/29/21

Data File: J:\GC34\DATA\052821-HB\0528000009.D\
Lab ID: KQ2109374-01
RunType: MS
Matrix: Sediment

Date Acquired: 5/28/21 18:58:53
Batch ID: 725573
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
Continuing Calibration Recovery - Rtx-CLPesticides	2,4,5-TP (Silvex)	21		20	CCV+ND
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides	2,4,5-TP (Silvex)	26		20	CCV+ND

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *K* 05/29/21
2nd *FW* 05/29/21

Data File: J:\GC34\DATA\052821-HB\0528000009.D\	Instrument: K-GC-34
Acqu Date: 5/28/21 18:58:53	Vial: 23
Run Type: MS	Dilution: 1
Lab ID: KQ2109374-01	Raw Units: ppb

Bottle ID: K2104776-002.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 4/30/21	Receive Date: 5/3/21

Analysis Lot: 725573	Prep Lot: 380155	Report Group: KQ2109374
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 5/26/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100249
	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	9.69	71207781	34919940	89.205	76.972	89	77	77	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	12.19	11.75	286701172	146699916	98.417 ^{CCV}	87.120	295	261	261	Y
2,4-D	11.26	10.89	60586458	33220022	90.672	82.071	272	246	246	Y

Prep Amount: 30.9220 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 53.90

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

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

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

Printed: 5/29/21 12:15

\\alprews001\starlims\LIMSReps\QuantValidation.rpt

Data File : J:\GC34\DATA\052821-HB\05280000009.D Vial: 7
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28-May-2021, 18:58:53 Operator: TAP
 Sample : K2104776-002 MS Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 11:04:57 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 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...	10.043	9.687	71207781	34919940	89.205	76.972
Target Compounds						
1) m Dalapon	5.587	5.227	59969038	32382126	58.510	58.251
3) m Dicamba	10.280	9.900	235.2E6	122.0E6	90.961	83.016
4) m MCPP	10.427	9.963	31934318	21593228	9663.172	12699.566 #
5) m MCPA	10.590	10.203	47604461	19978336	9584.229	6959.977 #
6) m Dichloroprop	11.017	10.573	59981528	32227455	84.505	77.131
7) m 2,4-D	11.263	10.893	60586458	33220022	90.672	82.071m
8) m 2,4,5-TP ...	12.187	11.753	286.7E6	146.7E6	98.417	87.120
9) m 2,4,5-T	12.480	12.147	235.0E6	117.7E6	108.851	94.689
10) m 2,4-DB	13.043	12.667	32423209	14640707	147.450	110.717
11) m Dinoseb	14.280	13.027	115.3E6	59754536	59.327	52.183

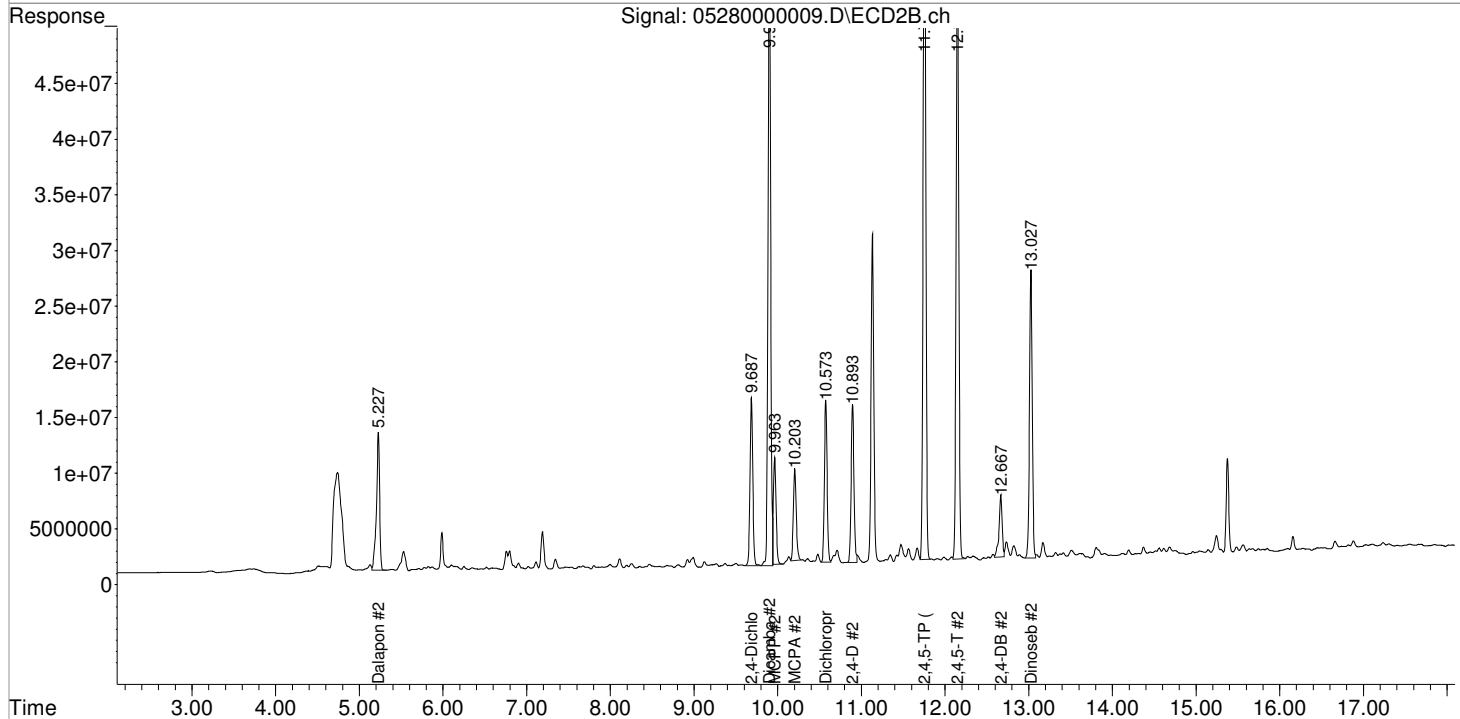
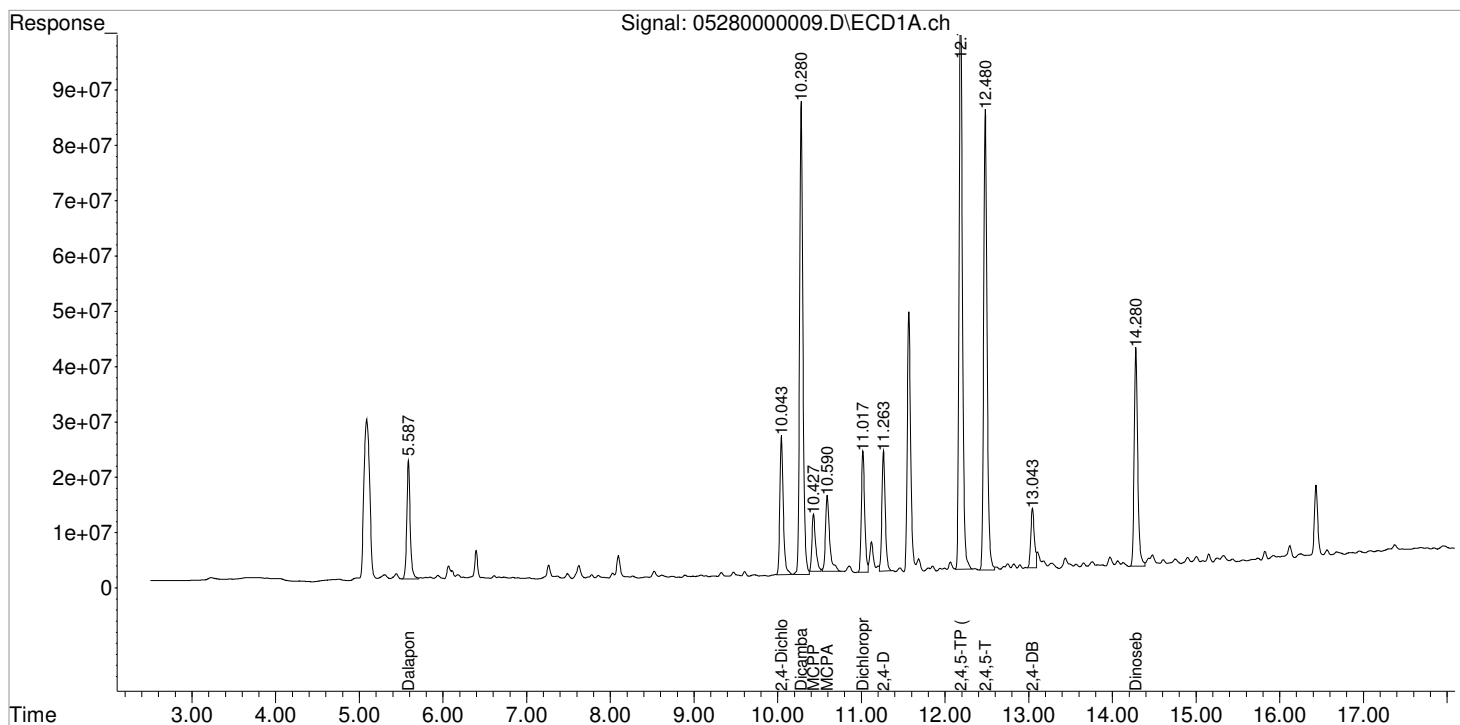
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\052821-HB\05280000009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 18:58:53
Sample : K2104776-002 MS
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 11:04:57 2021
Quant Results File: 050621_8151.RES

Vial: 7
Operator: TAP
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

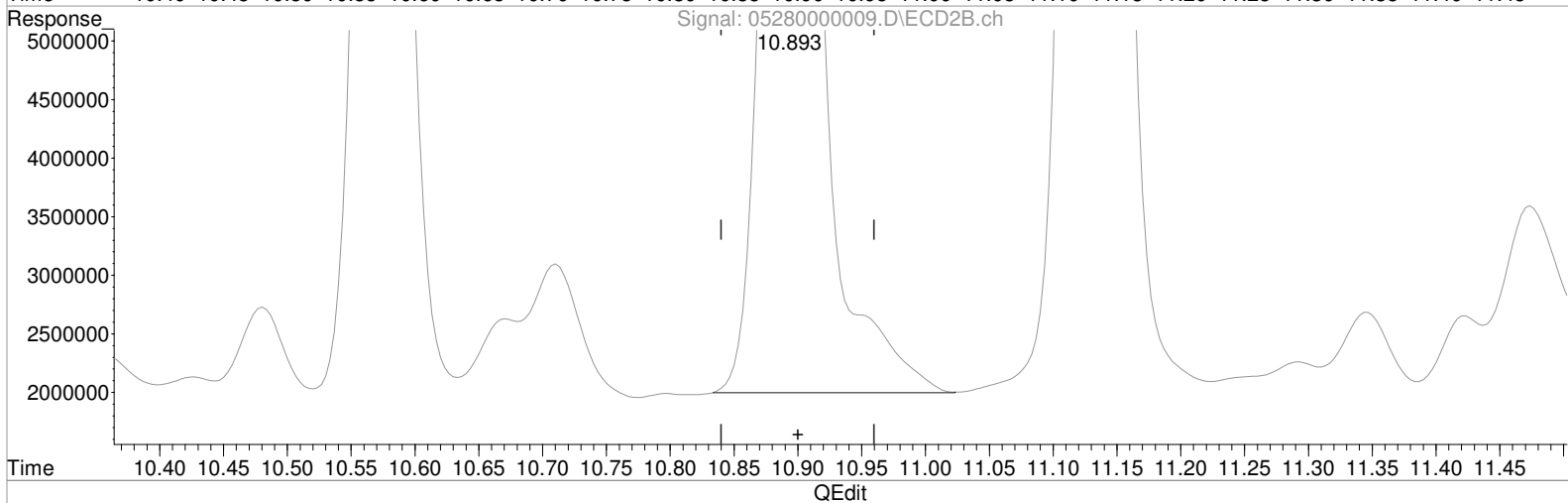
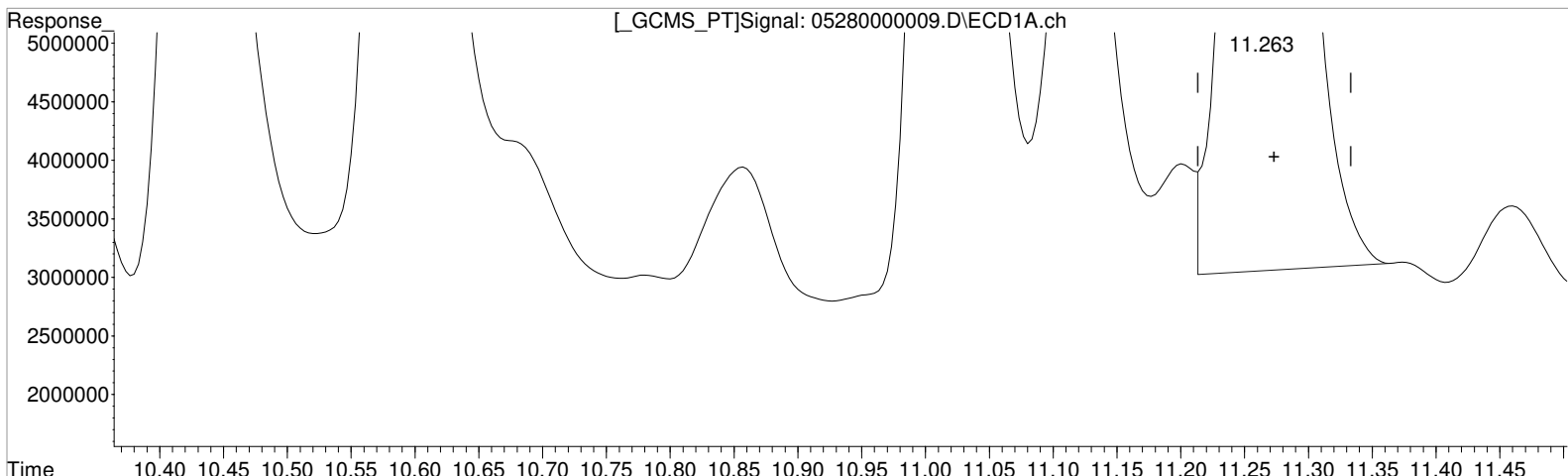
Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\052821-HB\05280000009.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 18:58:53 Operator: TAP
Sample : K2104776-002 MS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:34:53 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



(7) 2,4-D (m)
11.263min 90.672 ppb
response 60586458

Manual Integration:
Before
05/29/21

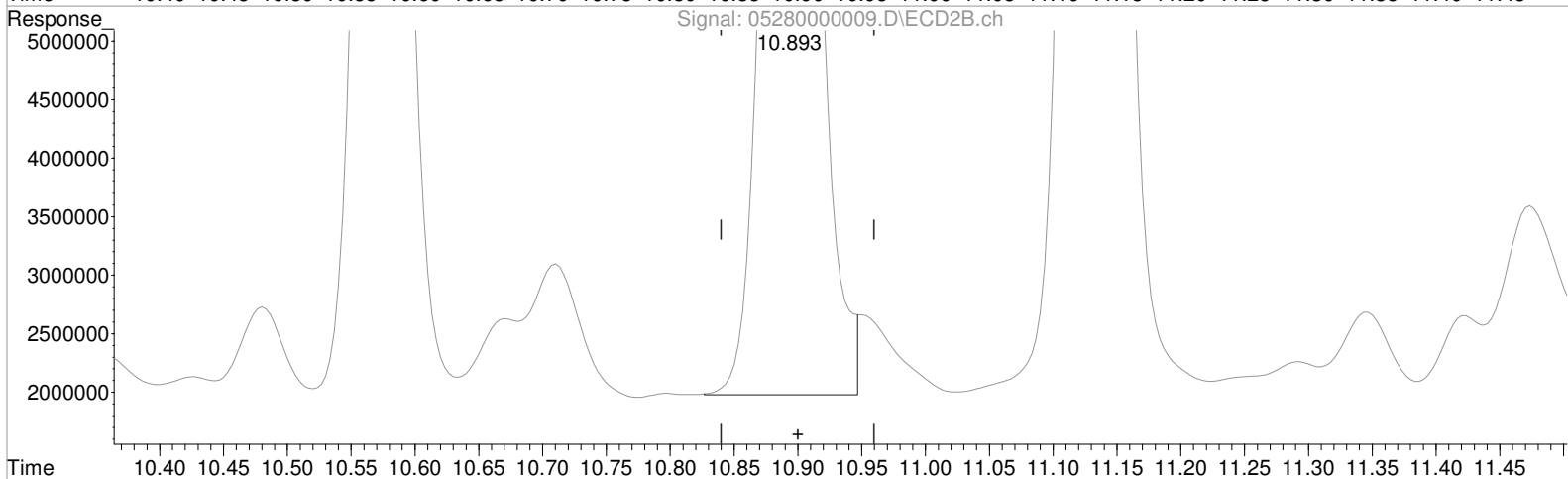
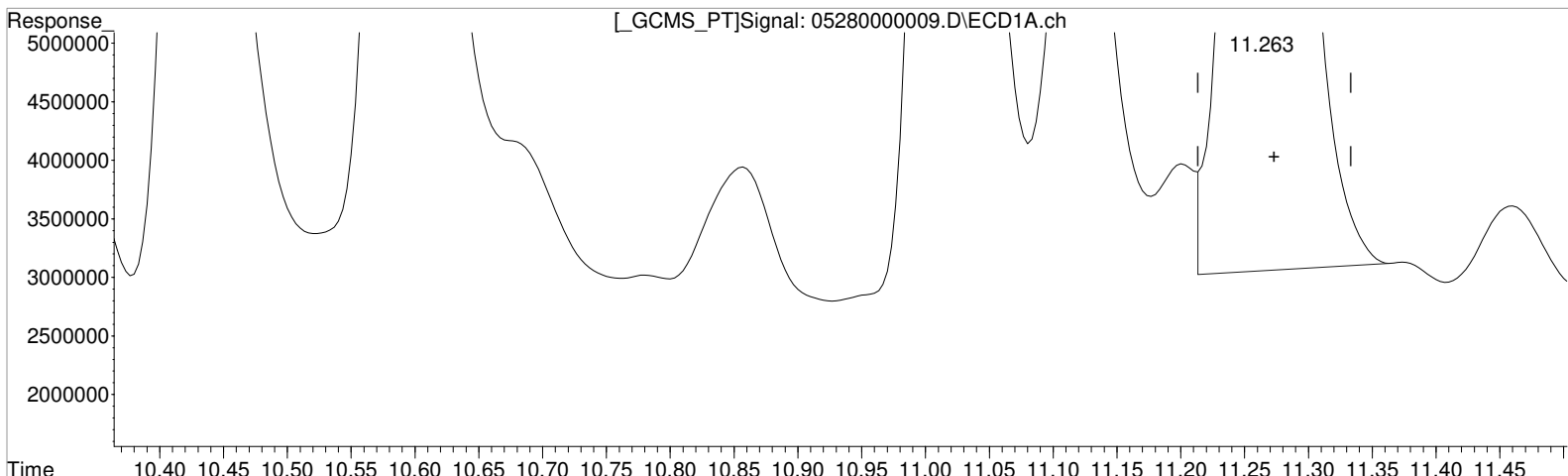
(7) 2,4-D #2 (m)
10.893min 84.912 ppb
response 34370007

(+) = Expected Retention Time

Data File : J:\GC34\DATA\052821-HB\05280000009.D Vial: 7
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 18:58:53 Operator: TAP
Sample : K2104776-002 MS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:34:53 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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)
11.263min 90.672 ppb
response 60586458

(7) 2,4-D #2 (m)
10.893min 82.071 ppb m
response 33220022

Manual Integration:
After
Baseline/Shoulder
05/29/21

(+) = Expected Retention Time

Validation Report

1st *K* 05/29/21
2nd *FW* 05/29/21

Data File: J:\GC34\DATA\052821-HB\0528000010.D\
Lab ID: KQ2109374-02
RunType: DMS
Matrix: Sediment

Date Acquired: 5/28/21 19:22:39
Batch ID: 725573
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
Continuing Calibration Recovery - Rtx-CLPesticides	2,4,5-TP (Silvex)	21		20	CCV+ND
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides	2,4,5-TP (Silvex)	26		20	CCV+ND

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *K* 05/29/21
2nd *FW* 05/29/21

Data File: J:\GC34\DATA\052821-HB\0528000010.D\	Instrument: K-GC-34
Acqu Date: 5/28/21 19:22:39	Vial: 24
Run Type: DMS	Dilution: 1
Lab ID: KQ2109374-02	Raw Units: ppb

Bottle ID: K2104776-002.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 4/30/21	Receive Date: 5/3/21

Analysis Lot: 725573	Prep Lot: 380155	Report Group: KQ2109374
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 5/26/21	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100249
	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	9.69	62233361	31149666	77.963	68.661	78	69	69	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP (Silvex)	12.19	11.75	250282219	128129039	85.915 ^{CCV}	76.092	261	231	231	Y
2,4-D	11.26	10.89	52952957	28661278	79.248	70.808	241	215	215	Y

Prep Amount: 30.5080 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 53.90

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

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

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

Data File : J:\GC34\DATA\052821-HB\05280000010.D Vial: 8
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28-May-2021, 19:22:39 Operator: TAP
 Sample : K2104776-002 DMS Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 11:06:14 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 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...	10.043	9.687	62233361	31149666	77.963	68.661
Target Compounds						
1) m Dalapon	5.587	5.227	55309965	29872585	53.965	53.737
3) m Dicamba	10.280	9.900	205.7E6	106.5E6	79.551	72.453
4) m MCPP	10.427	9.963	28325897	18698755	8484.298	10896.816 #
5) m MCPA	10.590	10.203	45918838	17879455	9208.606	6135.840 #
6) m Dichloroprop	11.017	10.573	53129046	28342079	74.850	67.501
7) m 2,4-D	11.263	10.893	52952957	28661278	79.248	70.808m
8) m 2,4,5-TP ...	12.187	11.753	250.3E6	128.1E6	85.915	76.092
9) m 2,4,5-T	12.480	12.147	202.0E6	100.7E6	93.547	81.044
10) m 2,4-DB	13.043	12.667	28098058	12519999	127.781	94.680 #
11) m Dinoseb	14.277	13.027	102.7E6	53690591	52.817	46.888

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

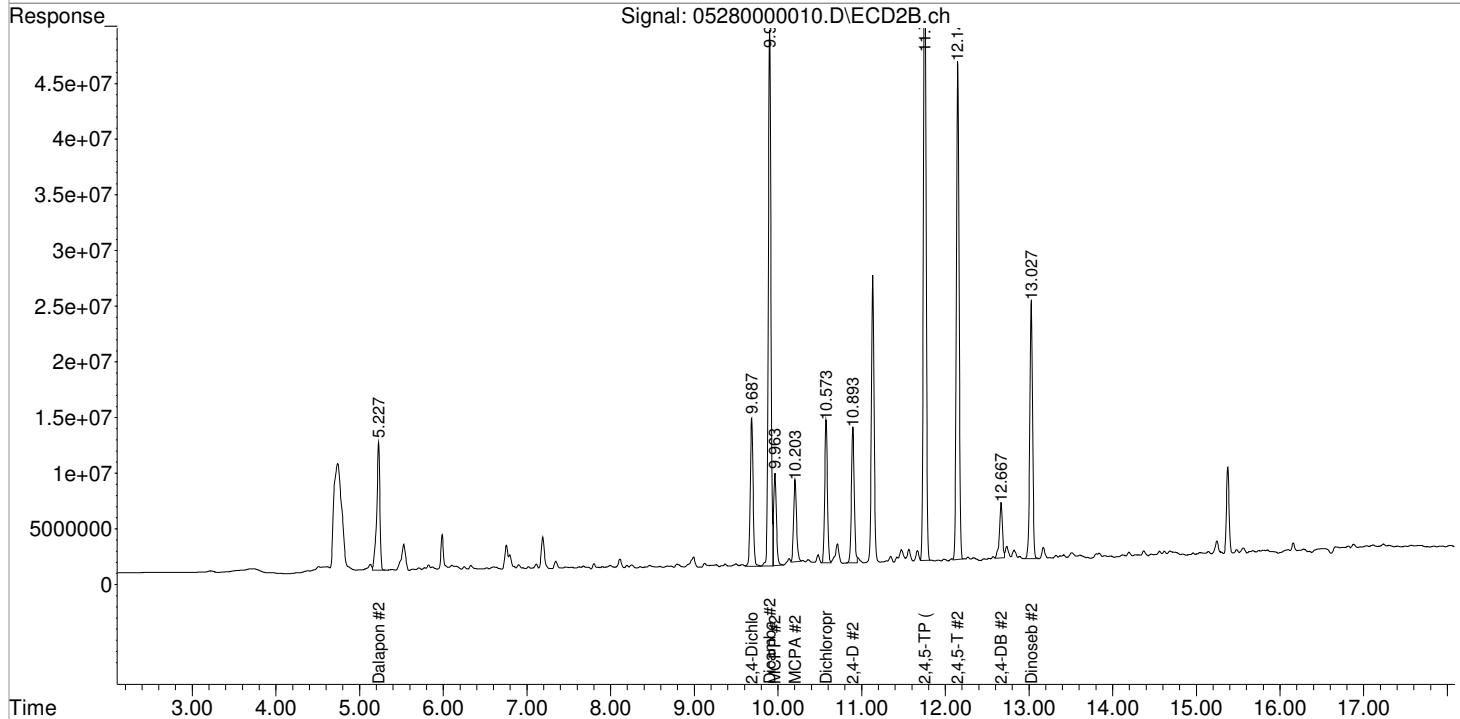
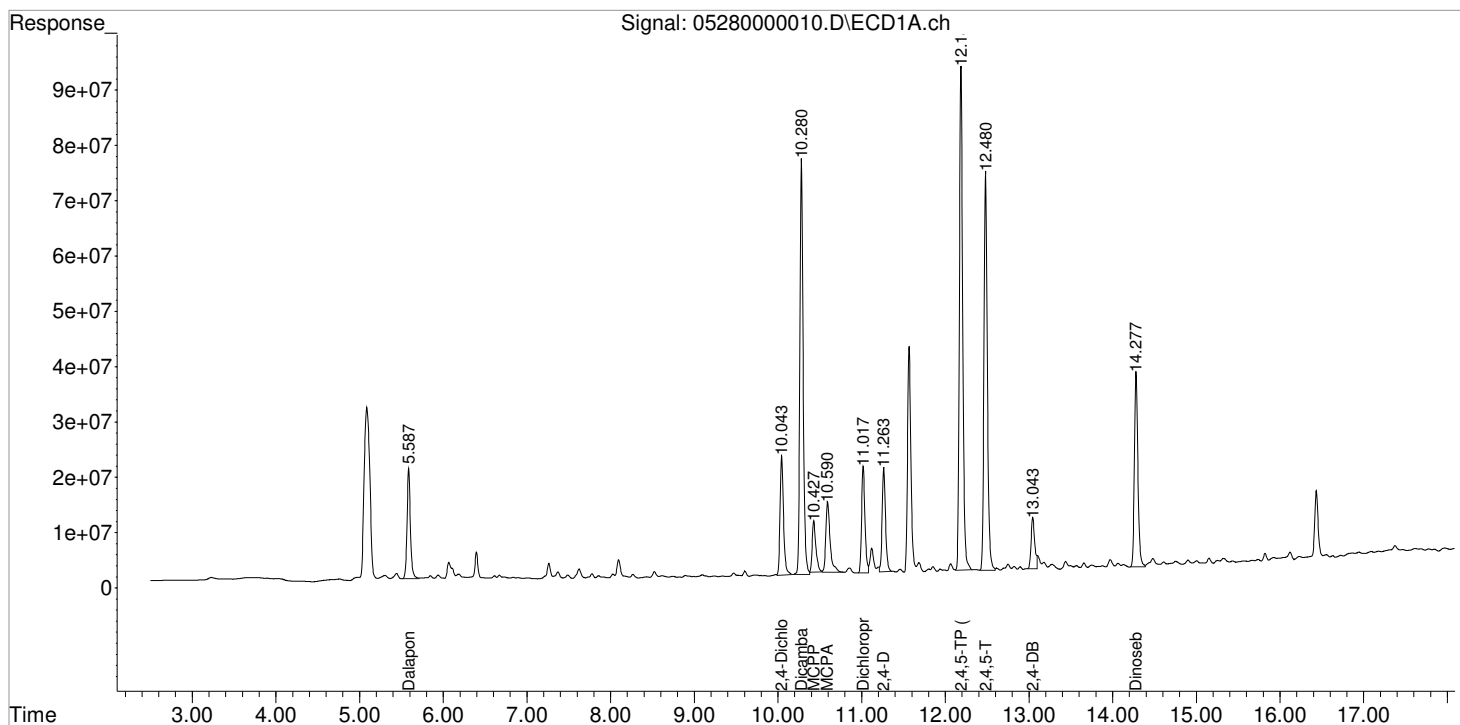
Data File : J:\GC34\DATA\052821-HB\05280000010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 19:22:39
Sample : K2104776-002 DMS
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 11:06:14 2021
Quant Results File: 050621_8151.RES

Vial: 8

Operator: TAP
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

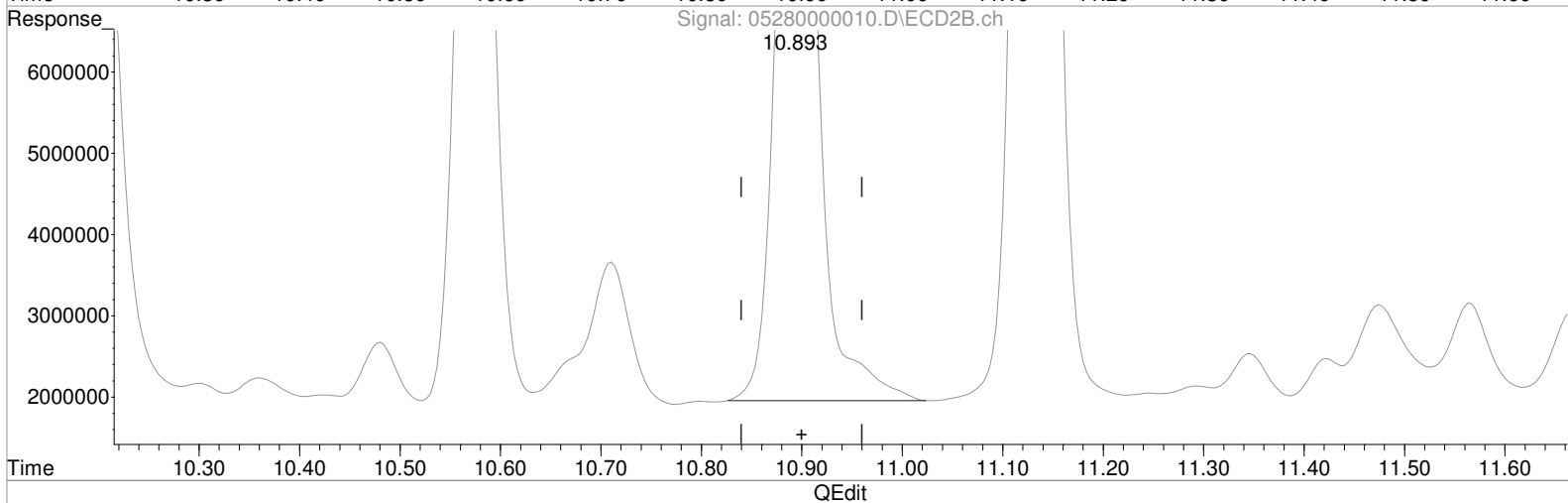
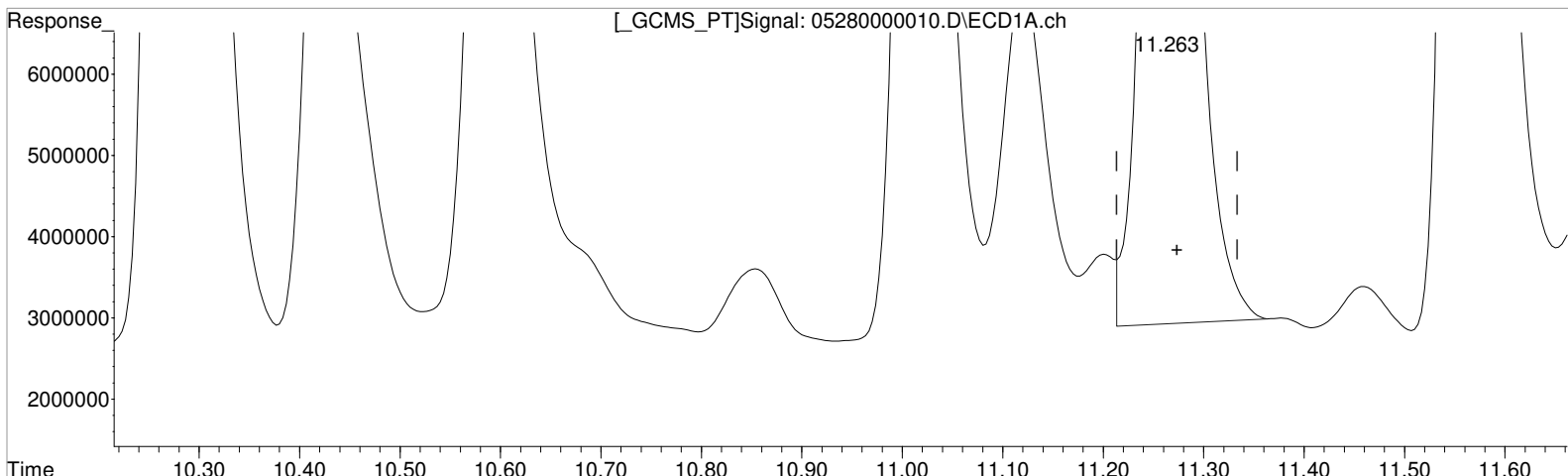
Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\052821-HB\05280000010.D Vial: 8
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 19:22:39 Operator: TAP
Sample : K2104776-002 DMS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:34:55 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



(7) 2,4-D (m)
11.263min 79.248 ppb
response 52952957

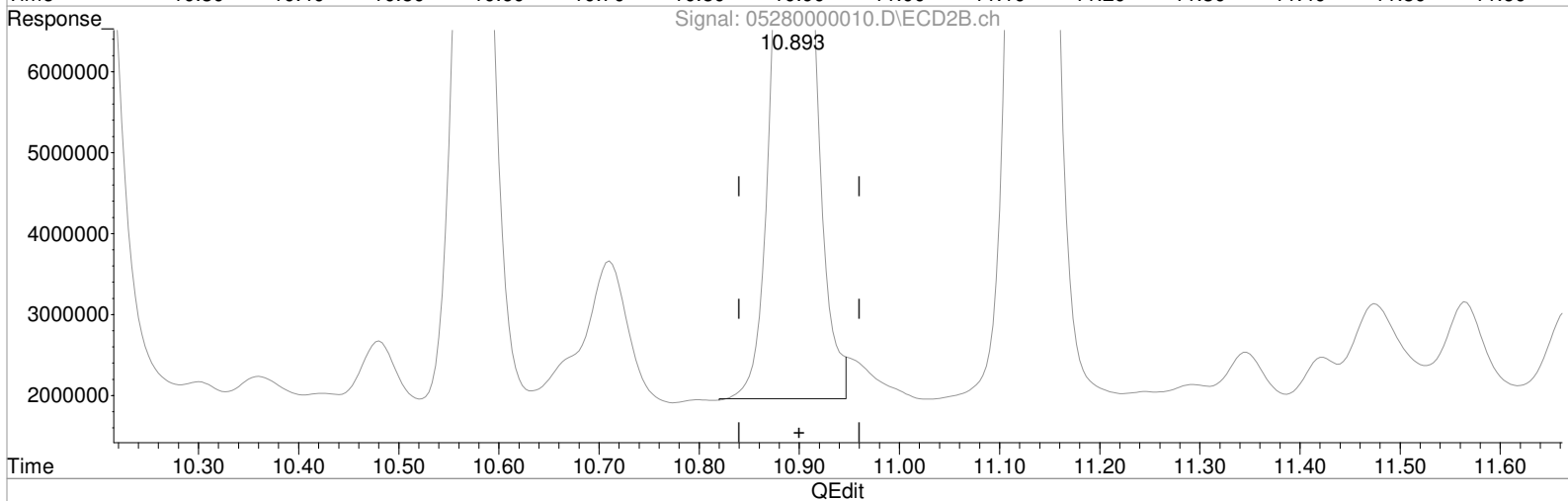
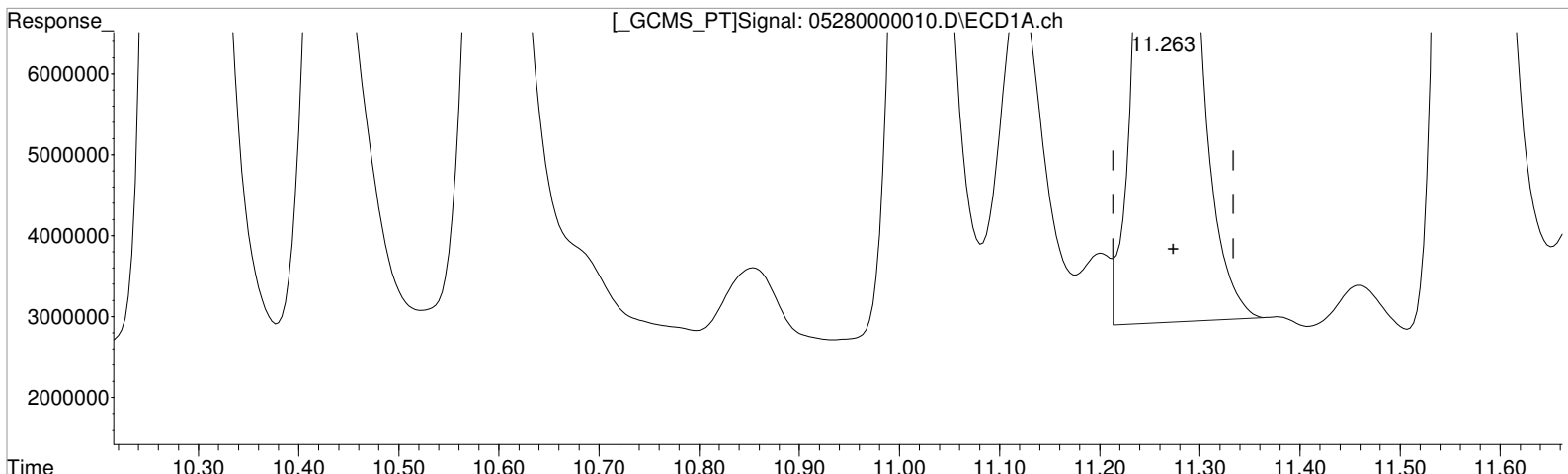
Manual Integration:
Before
05/29/21

(7) 2,4-D #2 (m)
10.893min 73.321 ppb
response 29678303

Data File : J:\GC34\DATA\052821-HB\05280000010.D Vial: 8
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 19:22:39 Operator: TAP
Sample : K2104776-002 DMS Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:34:55 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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





(7) 2,4-D (m)
11.263min 79.248 ppb
response 52952957

(7) 2,4-D #2 (m)
10.893min 70.808 ppb m
response 28661278

Manual Integration:
After
Baseline/Shoulder
05/29/21

Validation Report

1st  05/29/21
2nd  05/29/21

Data File: J:\GC34\DATA\052821-HB\05280000004.D\
Lab ID: KQ2109702-02
RunType: CCB
Matrix: Sediment

Date Acquired: 5/28/21 16:59:05
Batch ID: 725573
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	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - Rtx-CLPesticides	2,4,5-TP	21		20	CCV+ND
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides	2,4,5-TP	26		20	CCV+ND

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *K* 05/29/21
2nd *FW* 05/29/21

Data File: J:\GC34\DATA\052821-HB\0528000004.D\	Instrument: K-GC-34
Acqu Date: 5/28/21 16:59:05	Vial: 2
Run Type: CCB	Dilution: 1
Lab ID: KQ2109702-02	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 4/30/21	Receive Date: 5/3/21

Analysis Lot: 725573	Prep Lot:	Report Group: KQ2109702
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100249
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	0.00	0.00	0	0	0.000	0.000				26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	0.00	0.00	0	0	0.000 ^{ccv}	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

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

Printed: 5/29/21 12:15

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Data File : J:\GC34\DATA\052821-HB\05280000004.D Vial: 2
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28-May-2021, 16:59:05 Operator: TAP
 Sample : IB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 10:57:18 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 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.
Target Compounds						
1) m Dalapon	5.647f	5.177f	100405	117747	0.098	0.212 #
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	10.997f	10.597	149929	1478165	0.211	0.913 #
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. d
11) m Dinoseb	0.000	0.000	0	0	N.D.	N.D.

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

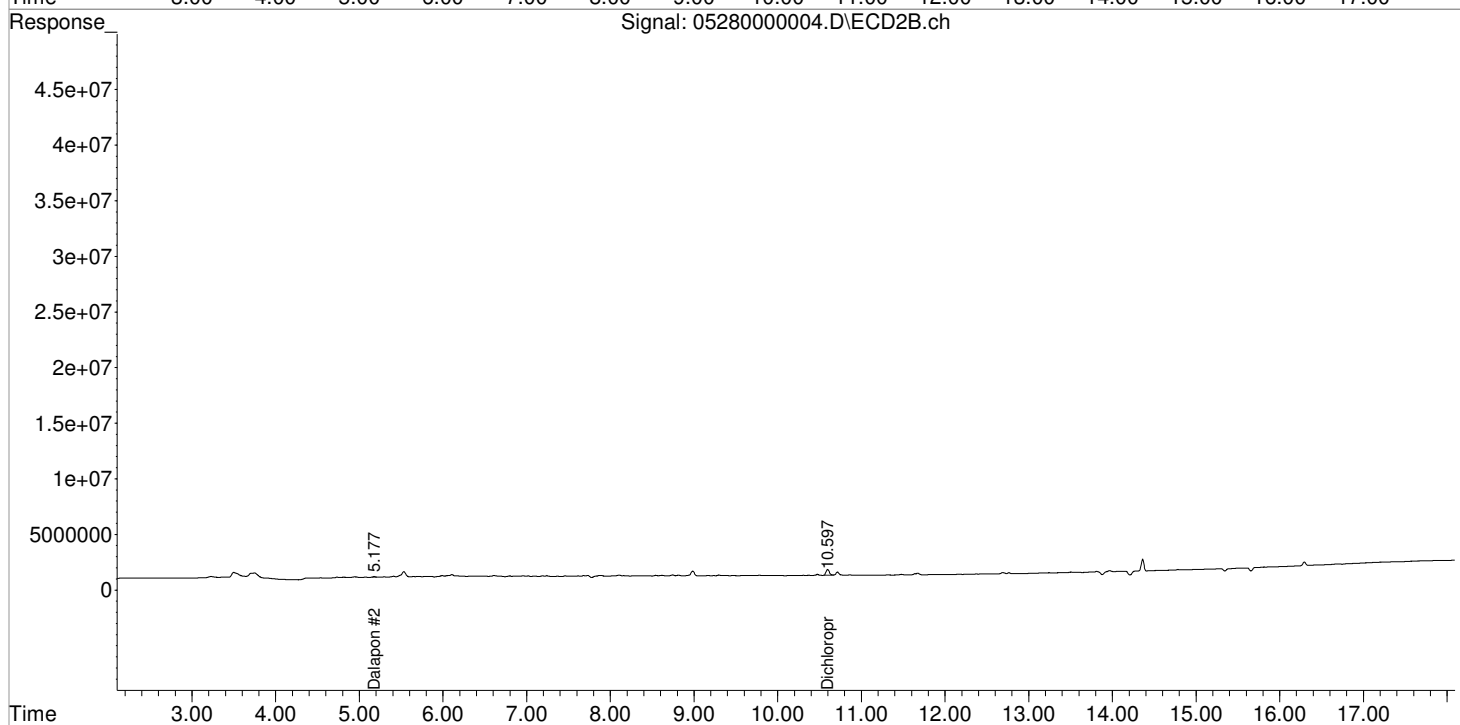
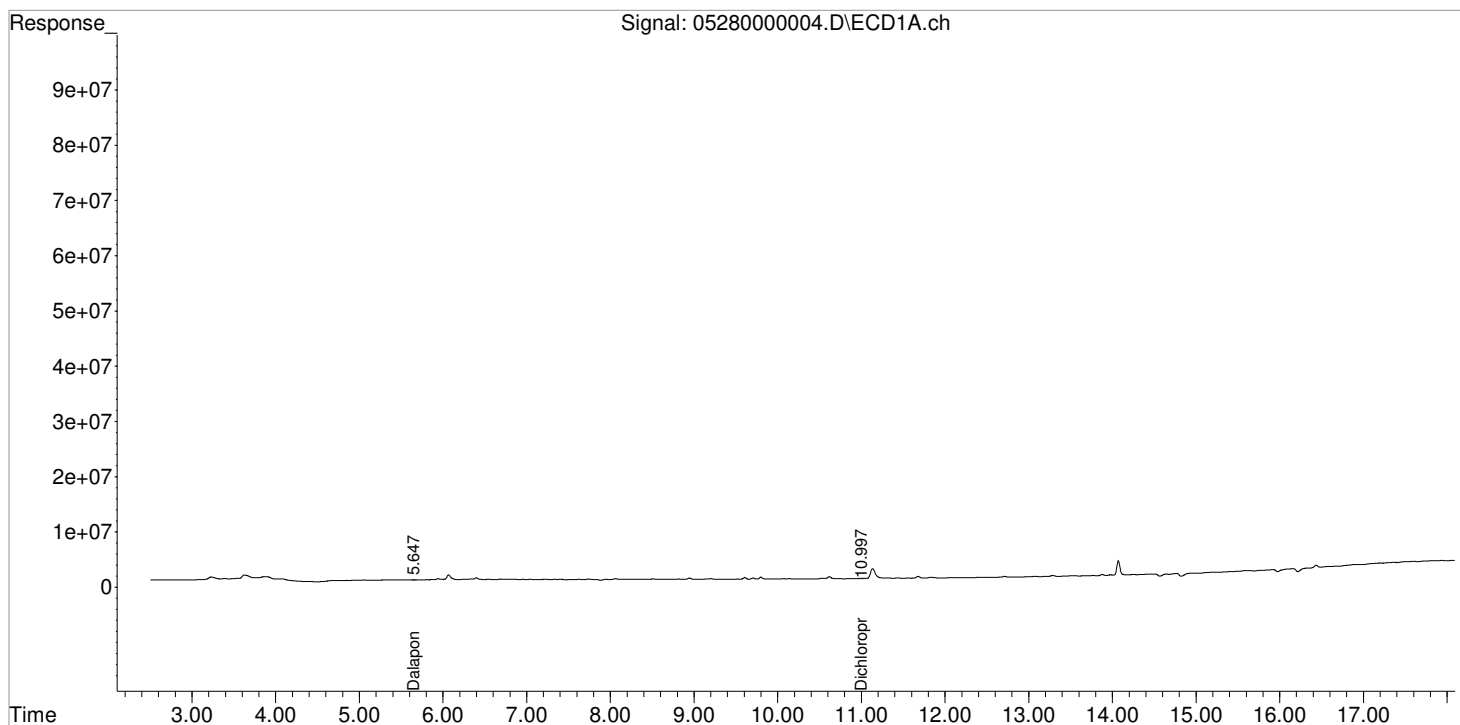
Data File : J:\GC34\DATA\052821-HB\05280000004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 16:59:05
Sample : IB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:57:18 2021
Quant Results File: 050621_8151.RES

Vial: 2

Operator: TAP
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



Validation Report

1st *[Signature]* 05/29/21
2nd *[Signature]* 05/29/21

Data File: J:\GC34\DATA\052821-HB\05280000018.D\
Lab ID: KQ2109702-04
RunType: CCB
Matrix: Sediment

Date Acquired: 5/28/21 22:33:36
Batch ID: 725573
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	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - Rtx-CLPesticides	2,4,5-TP	26		20	CCV+ND
Continuing Calibration Recovery (Closing) - Rtx-CLPesticides	2,4,5-TP	27		20	CCV+ND

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *K* 05/29/21
2nd *FW* 05/29/21

Data File: J:\GC34\DATA\052821-HB\0528000018.D\	Instrument: K-GC-34
Acqu Date: 5/28/21 22:33:36	Vial: 4
Run Type: CCB	Dilution: 1
Lab ID: KQ2109702-04	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 4/30/21	Receive Date: 5/3/21

Analysis Lot: 725573	Prep Lot:	Report Group: KQ2109702
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100249
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	0.00	0.00	0	0	0.000	0.000				26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	0.00	0.00	0	0	0.000 ^{ccv}	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

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

Data File : J:\GC34\DATA\052821-HB\05280000018.D Vial: 2
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28-May-2021, 22:33:36 Operator: TAP
 Sample : IB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 11:21:49 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 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	5.643f	5.173f	131213	134601	0.128	0.242 #
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	11.010	10.593	177274	746027	0.250	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. d
11) m Dinoseb	0.000	0.000	0	0	N.D.	N.D.

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

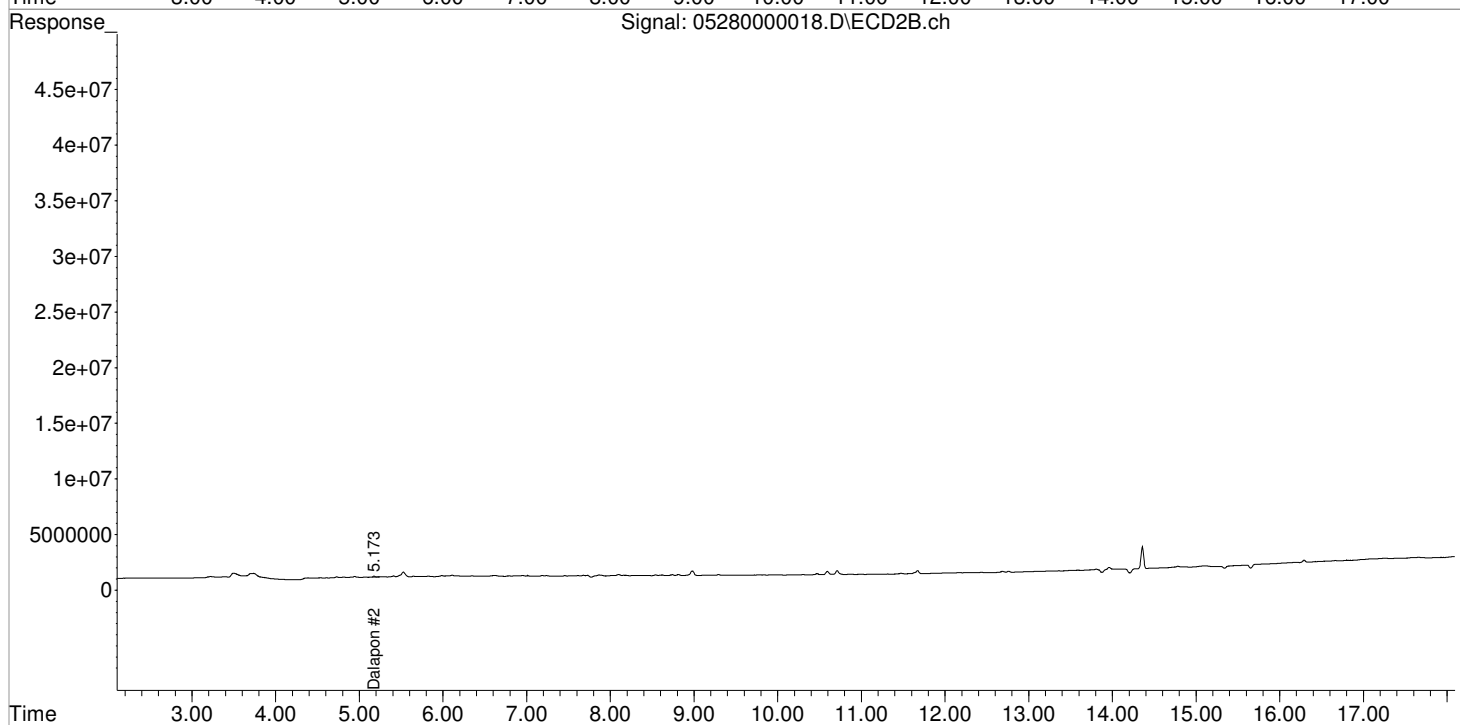
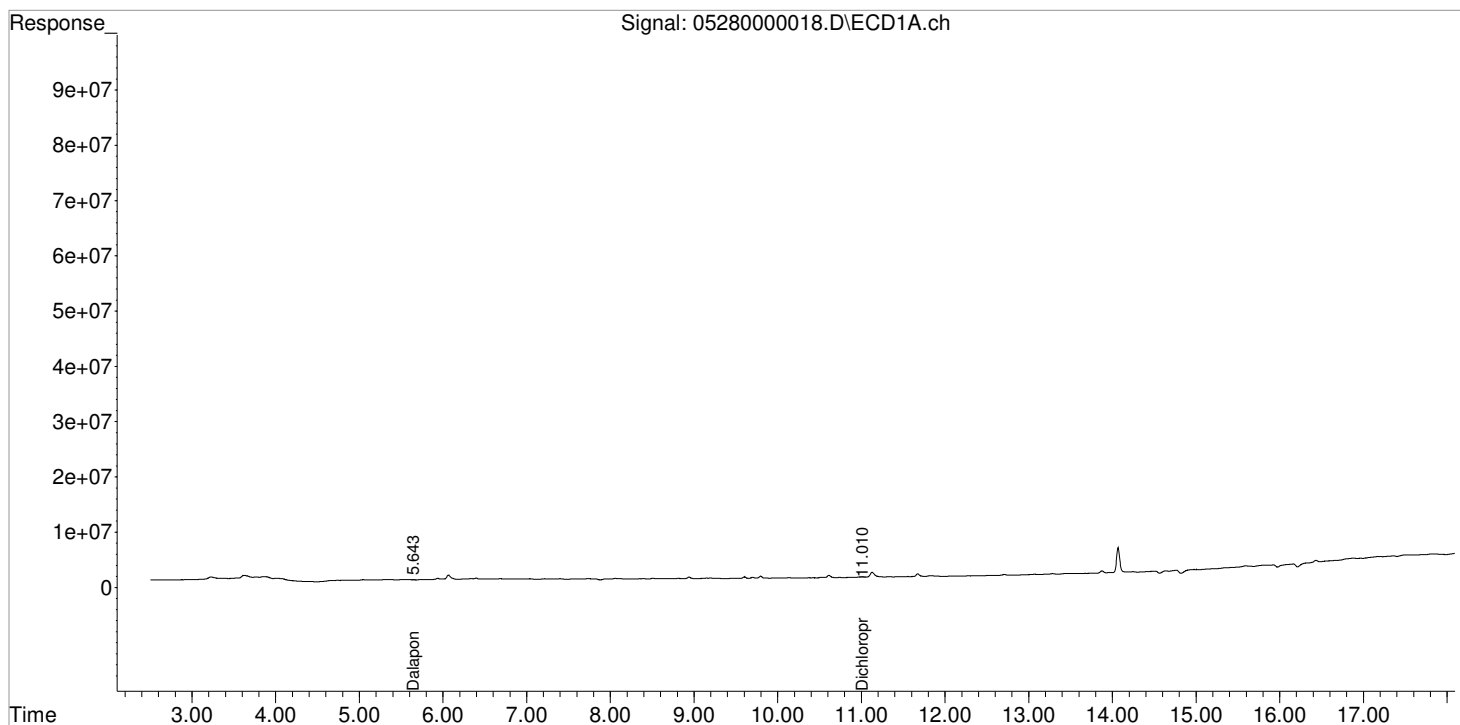
Data File : J:\GC34\DATA\052821-HB\05280000018.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 22:33:36
Sample : IB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 11:21:49 2021
Quant Results File: 050621_8151.RES

Vial: 2

Operator: TAP
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



Validation Report

1st *[Signature]* 05/29/21
2nd *[Signature]* 05/29/21

Data File: J:\GC34\DATA\052821-HB\05280000028.D\
Lab ID: KQ2109702-06
RunType: CCB
Matrix: Sediment

Date Acquired: 5/29/21 02:31:51
Batch ID: 725573
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	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - Rtx-CLPesticides	2,4,5-TP	27		20	CCV+ND

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *K* 05/29/21
2nd *FW* 05/29/21

Data File: J:\GC34\DATA\052821-HB\05280000028.D\	Instrument: K-GC-34
Acqu Date: 5/29/21 02:31:51	Vial: 6
Run Type: CCB	Dilution: 1
Lab ID: KQ2109702-06	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 4/30/21	Receive Date: 5/3/21

Analysis Lot: 725573	Prep Lot:	Report Group: KQ2109702
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100249
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	0.00	0.00	0	0	0.000	0.000				26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	0.00	0.00	0	0	0.000 ^{ccv}	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

Prep Amount: 30.00 g	Dilution: 1
Prep Final Amount: 50.00 mL	Basis Factor: 100.00

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

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

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

Printed: 5/29/21 12:15

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Data File : J:\GC34\DATA\052821-HB\05280000028.D Vial: 2
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29-May-2021, 02:31:51 Operator: TAP
 Sample : IB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 10:35:49 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 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	5.173f	123265	158975	0.120	0.286 #
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	10.617	0.000	4432595	0	N.D.	N.D.
6) m Dichloroprop	0.000	10.590	0	670163	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.

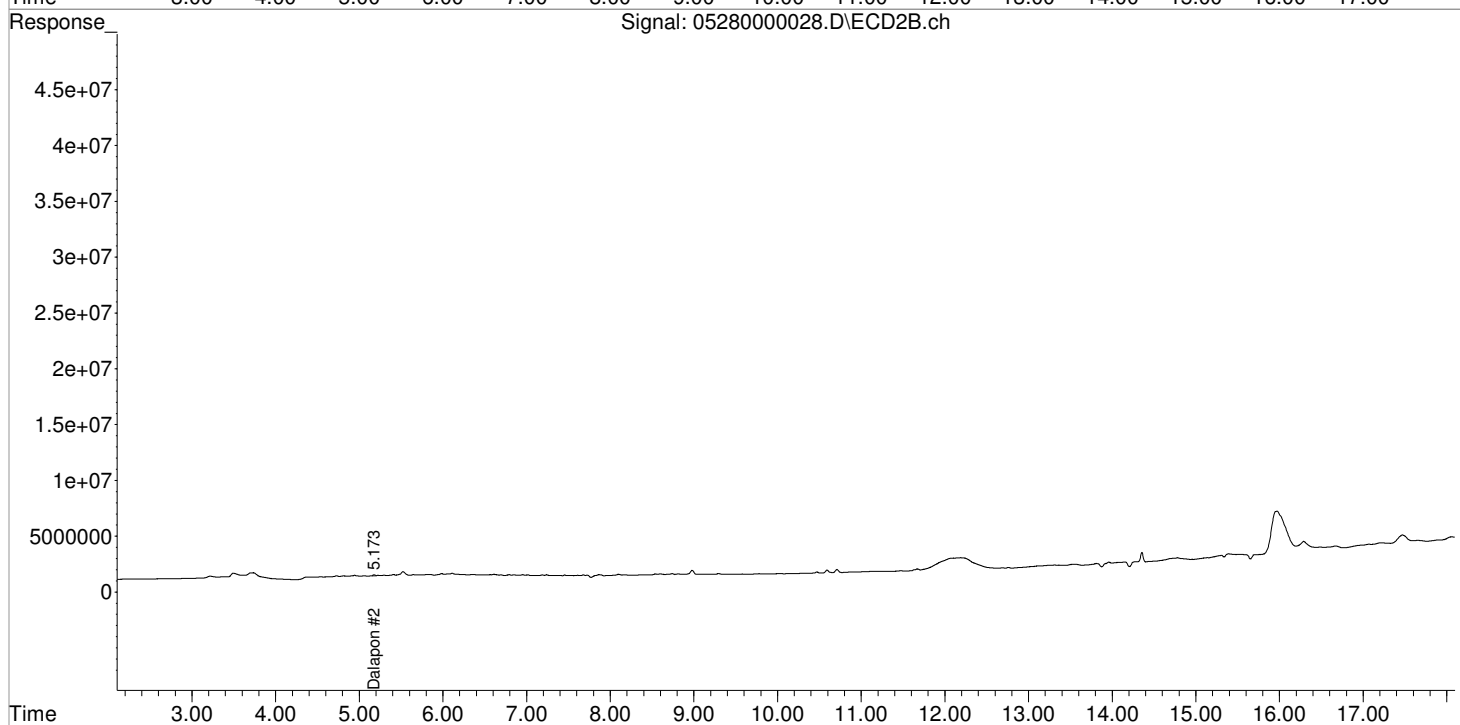
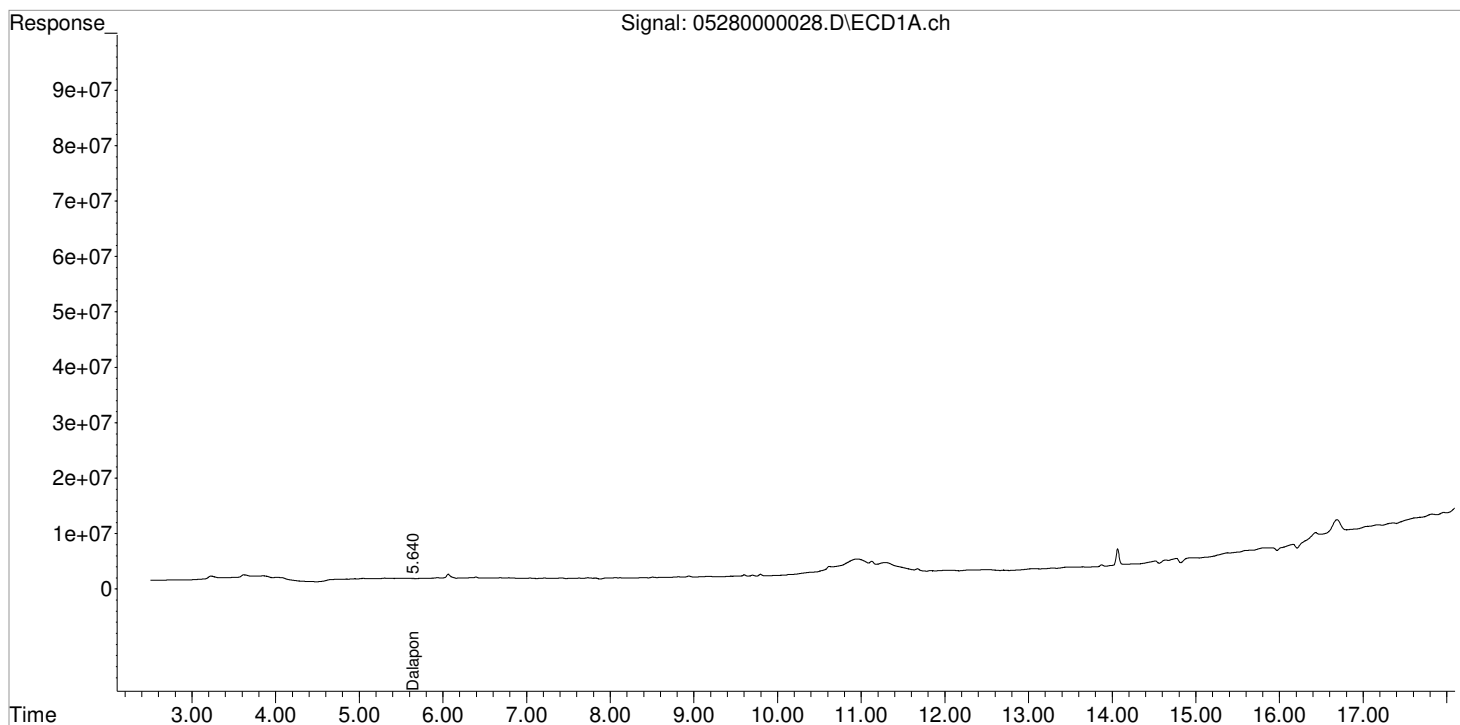
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\052821-HB\05280000028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29-May-2021, 02:31:51
Sample : IB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:35:49 2021
Quant Results File: 050621_8151.RES

Vial: 2
Operator: TAP
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



Validation Report

1st *[Signature]* 05/29/21
2nd *[Signature]* 05/29/21

Data File: J:\GC34\DATA\052821-HB\05280000003.D\
Lab ID: KQ2109702-01
RunType: CCV
Matrix: Sediment

Date Acquired: 5/28/21 16:34:51
Batch ID: 725573
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *K* 05/29/21
2nd *FW* 05/29/21

Data File: J:\GC34\DATA\052821-HB\05280000003.D\	Instrument: K-GC-34
Acqu Date: 5/28/21 16:34:51	Vial: 1
Run Type: CCV	Dilution: 1
Lab ID: KQ2109702-01	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 4/30/21	Receive Date: 5/3/21

Analysis Lot: 725573	Prep Lot:	Report Group: KQ2109702
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100249
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
DCAA	10.04	9.69	84146608	39932374	105.415	88.021			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
2,4,5-TP	12.19	11.75	335887524	170189806	115.301	101.070	115	101	Y
2,4-D	11.26	10.89	66085612	36236646	98.902	89.523	98.9	89.5	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

Printed: 5/29/21 12:15

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Data File : J:\GC34\DATA\052821-HB\05280000003.D Vial: 1
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28-May-2021, 16:34:51 Operator: TAP
 Sample : PENTA02-29F 100PPB CCV Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 10:46:17 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 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...	10.043	9.687	84146608	39932374	105.415	88.021
Target Compounds						
1) m Dalapon	5.587	5.223	83295333	43440185	81.269	78.143
3) m Dicamba	10.280	9.900	296.1E6	140.5E6	114.496	95.596
4) m MCPP	10.430	9.963	38565729	17599345	11829.658m	10212.076
5) m MCPA	10.590	10.203	52804486	25232891	10743.001m	9023.206
6) m Dichloroprop	11.020	10.573	79357117	41108109	111.802	99.144
7) m 2,4-D	11.263	10.893	66085612	36236646	98.902	89.523
8) m 2,4,5-TP ...	12.187	11.753	335.9E6	170.2E6	115.301	101.070
9) m 2,4,5-T	12.483	12.150	219.9E6	112.2E6	101.870	90.266
10) m 2,4-DB	13.047	12.667	25367073	13764197	115.361	104.088
11) m Dinoseb	14.280	13.027	205.4E6	106.9E6	105.684m	93.312

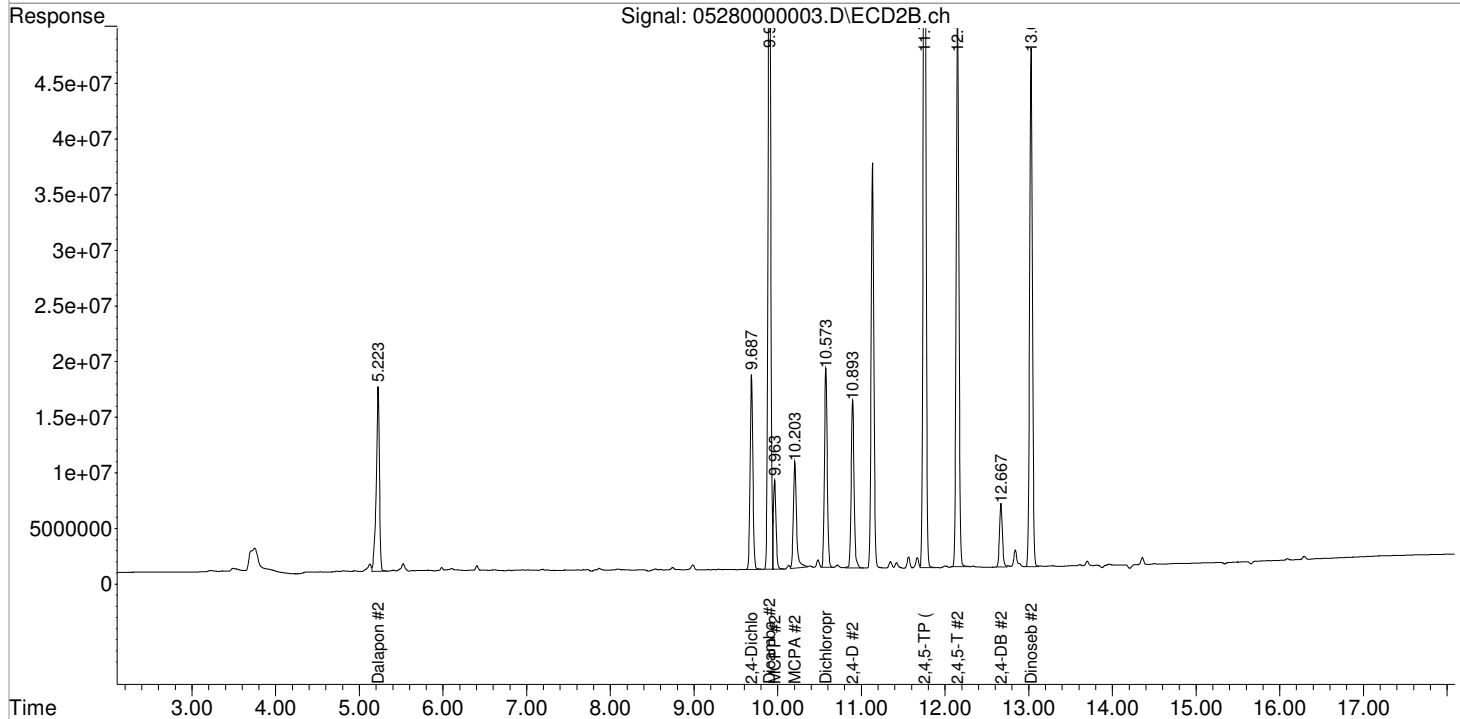
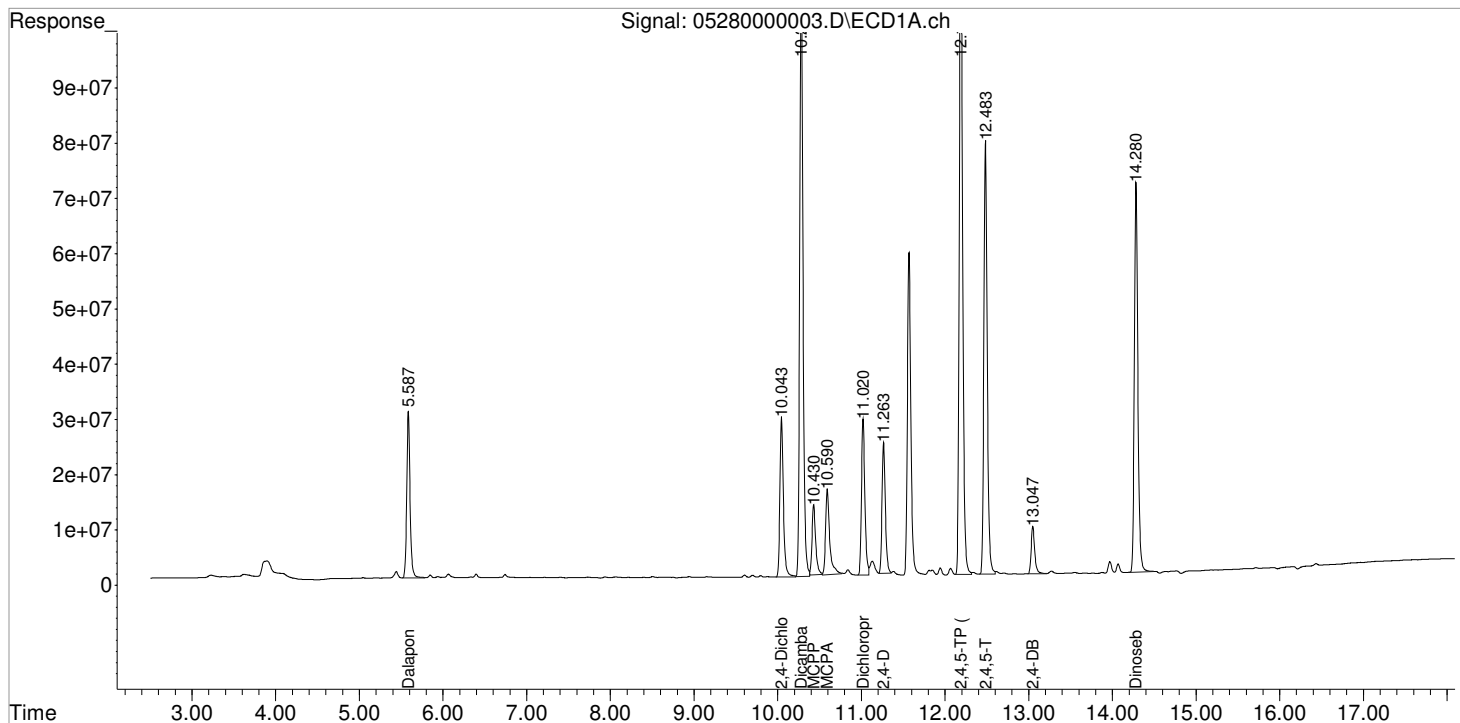
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\052821-HB\05280000003.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 16:34:51
Sample : PENTA02-29F 100PPB CCV
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:46:17 2021
Quant Results File: 050621_8151.RES

Vial: 1
Operator: TAP
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

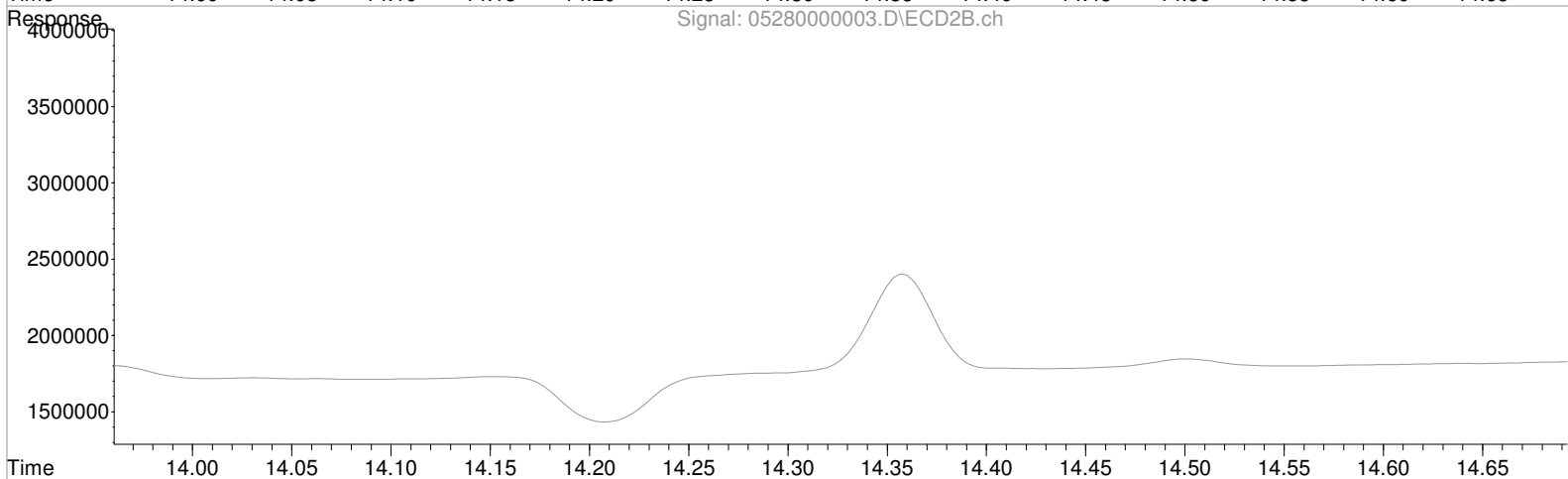
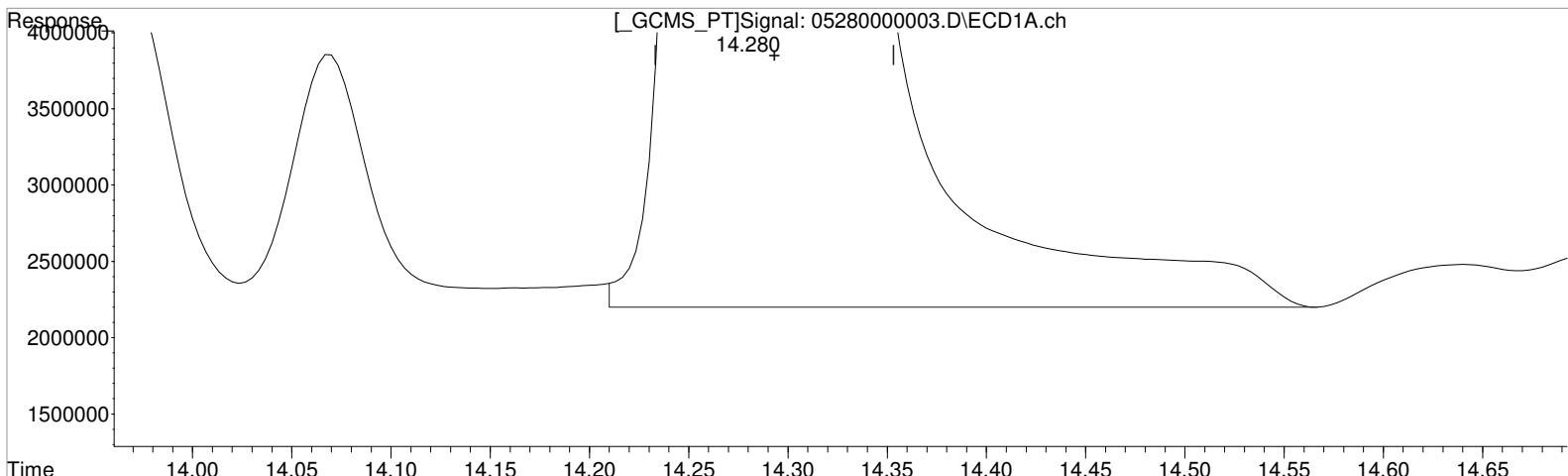
Volume Inj. : 2 uL
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2
Signal #1 Info : 0.32 mm Signal #2 Info : 0.32 mm



Data File : J:\GC34\DATA\052821-HB\05280000003.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 16:34:51 Operator: TAP
Sample : PENTA02-29F 100PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:34:33 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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

(11) Dinoseb (m)
14.280min 108.031 ppb
response 209983081

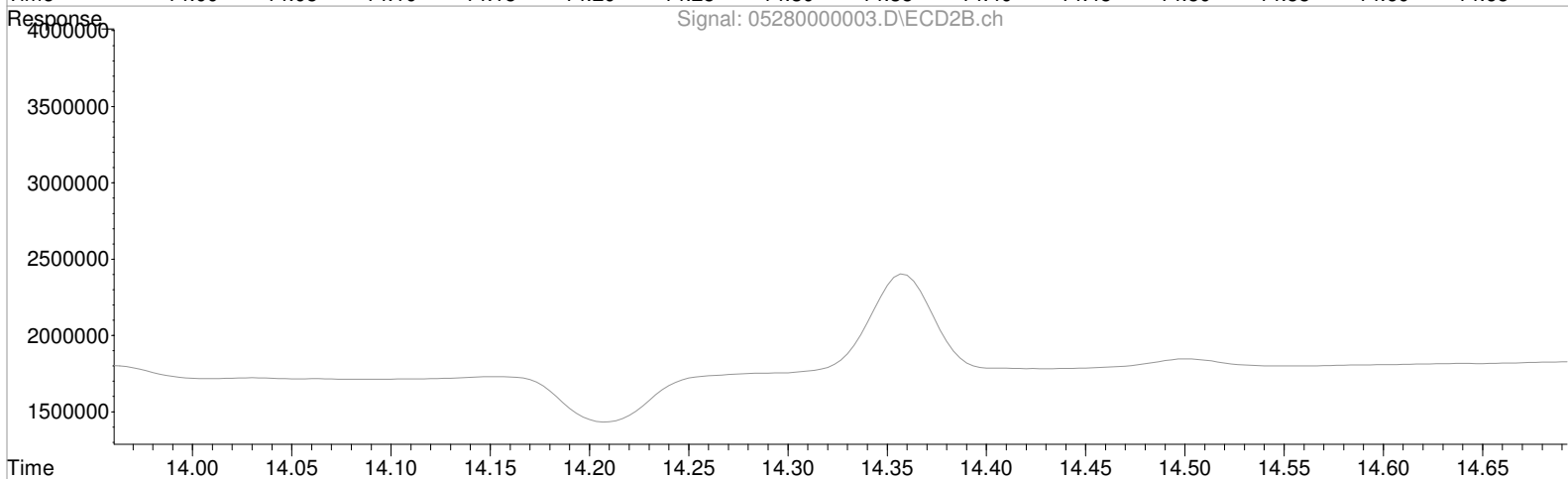
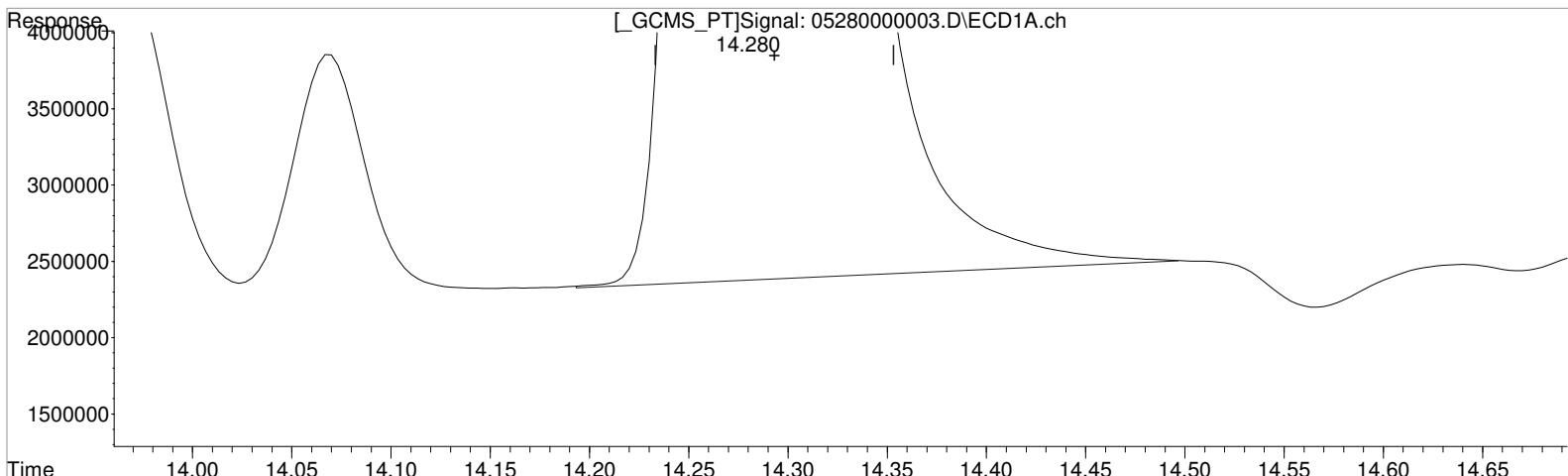
Manual Integration:
Before
05/29/21

(11) Dinoseb #2 (m)
13.027min 93.312 ppb
response 106850752

Data File : J:\GC34\DATA\052821-HB\05280000003.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 16:34:51 Operator: TAP
Sample : PENTA02-29F 100PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:34:33 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



(11) Dinoseb (m)
14.280min 105.684 ppb m
response 205421844

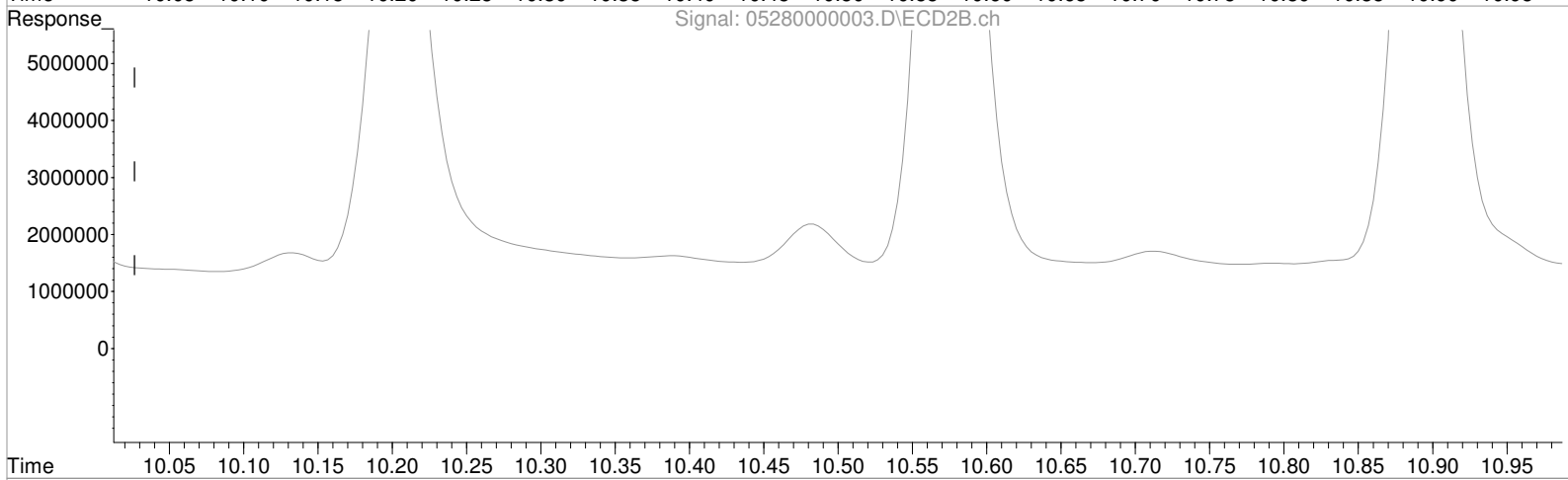
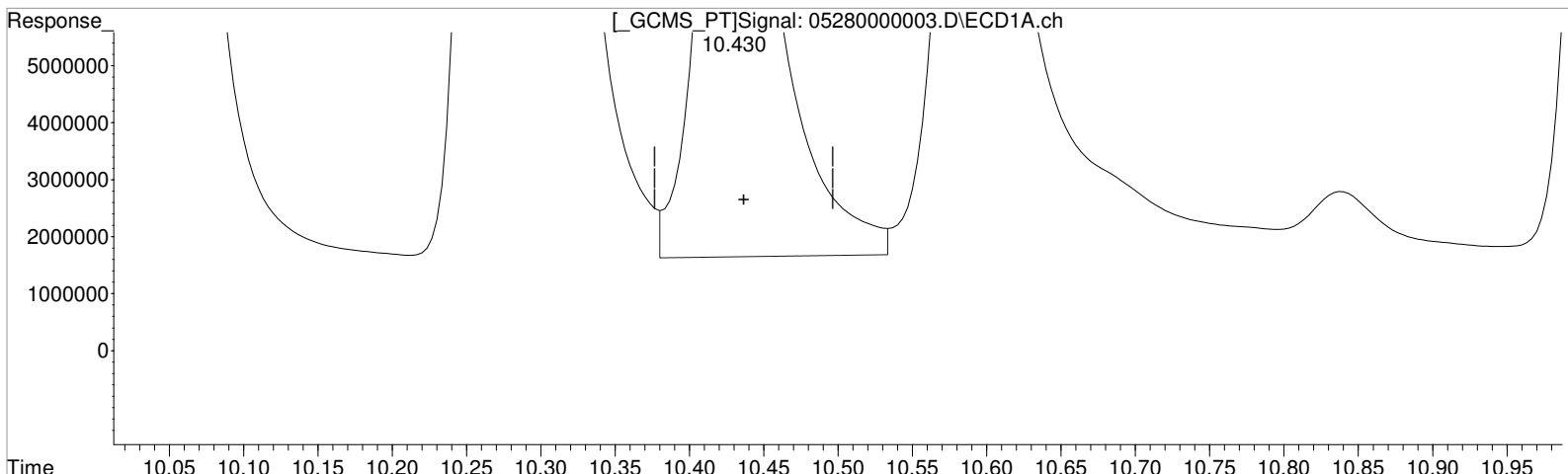
Manual Integration:
After
Baseline/Shoulder
05/29/21

(11) Dinoseb #2 (m)
13.027min 93.312 ppb
response 106850752

Data File : J:\GC34\DATA\052821-HB\05280000003.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 16:34:51 Operator: TAP
Sample : PENTA02-29F 100PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:34:33 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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



(4) MCPP (m)
10.430min 12517.913 ppb
response 40672414

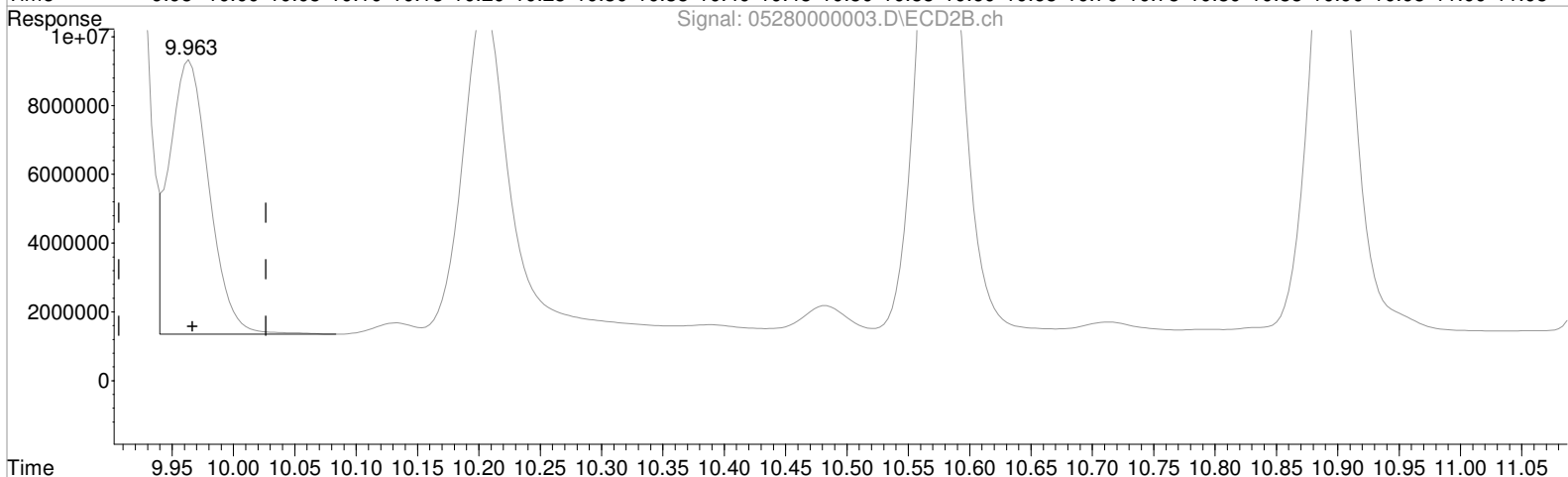
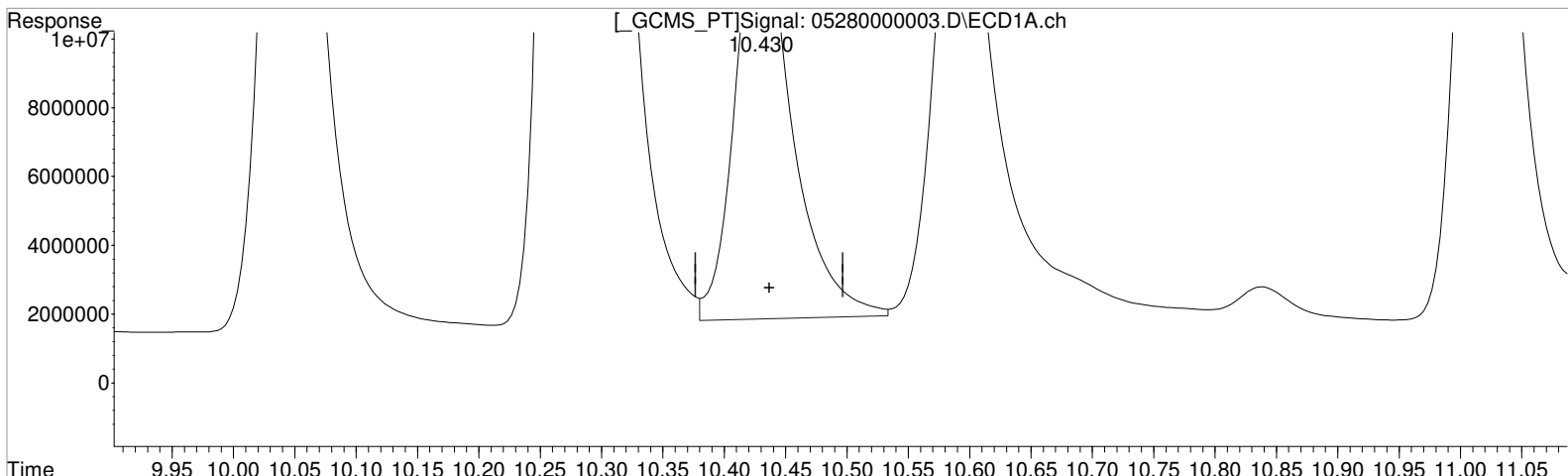
(4) MCPP #2 (m)
9.963min 10212.076 ppb
response 17599345

Manual Integration:
Before
05/29/21

Data File : J:\GC34\DATA\052821-HB\05280000003.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 16:34:51 Operator: TAP
Sample : PENTA02-29F 100PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:34:33 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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

(4) MCP P (m)
10.430min 11829.658 ppb m
response 38565729

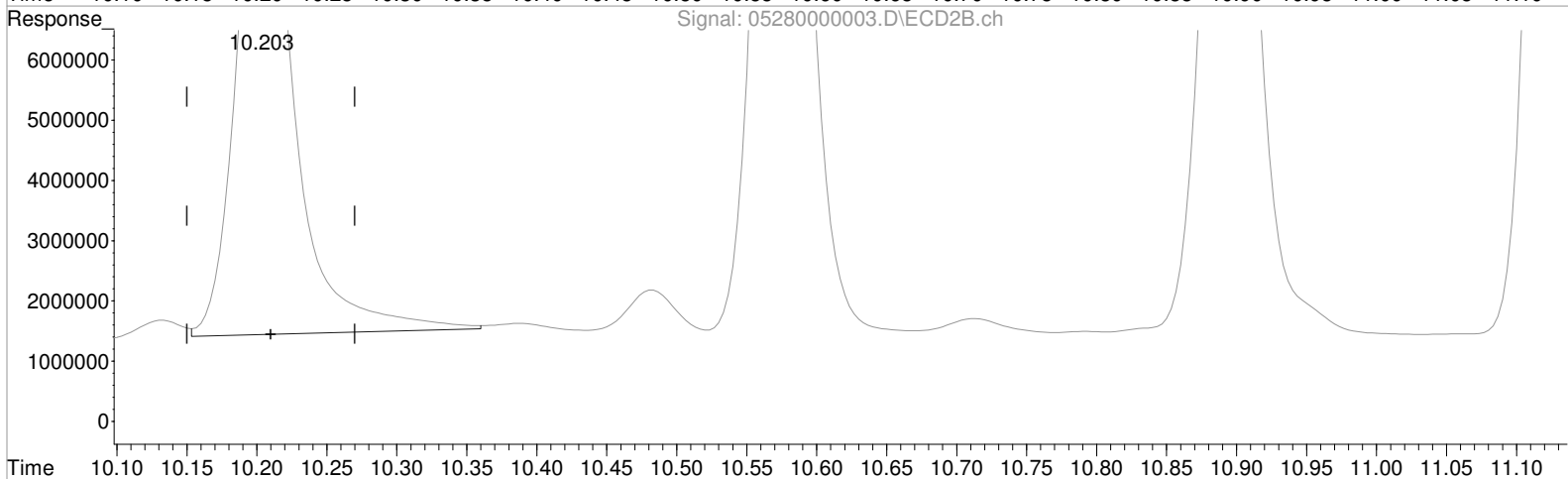
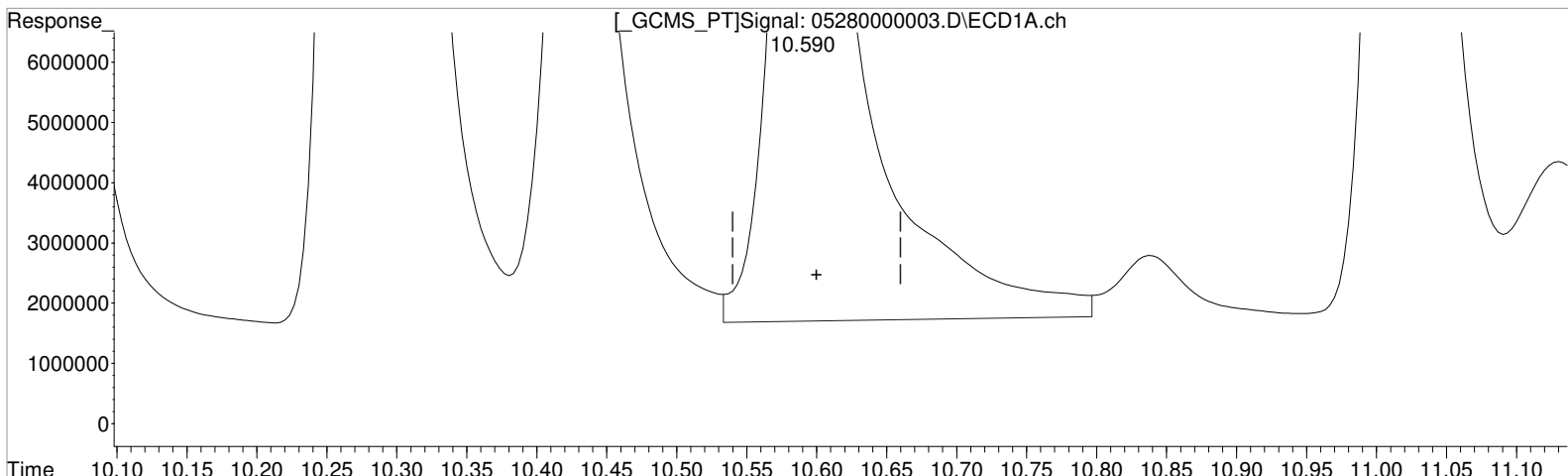
(4) MCP P #2 (m)
9.963min 10212.076 ppb
response 17599345

Manual Integration:
After
Baseline/Shoulder
05/29/21

Data File : J:\GC34\DATA\052821-HB\05280000003.D Vial: 1
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28-May-2021, 16:34:51 Operator: TAP
 Sample : PENTA02-29F 100PPB CCV Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 10:34:33 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 2021
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

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



(5) MCPA (m)
 10.590min 11635.376 ppb
 response 56809050

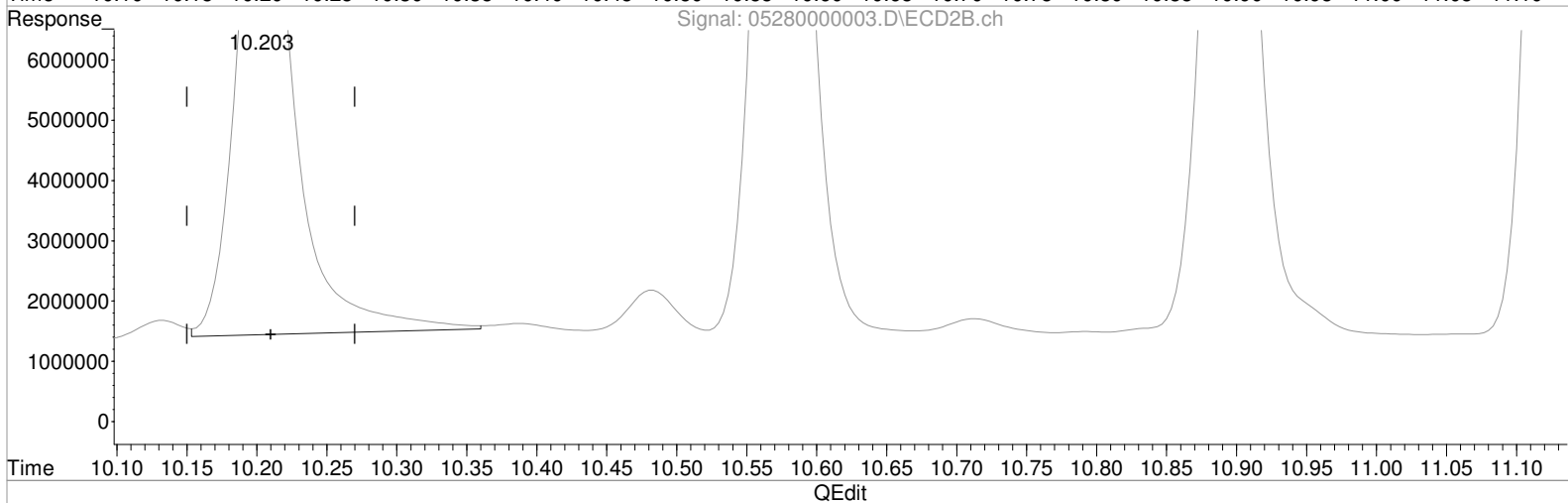
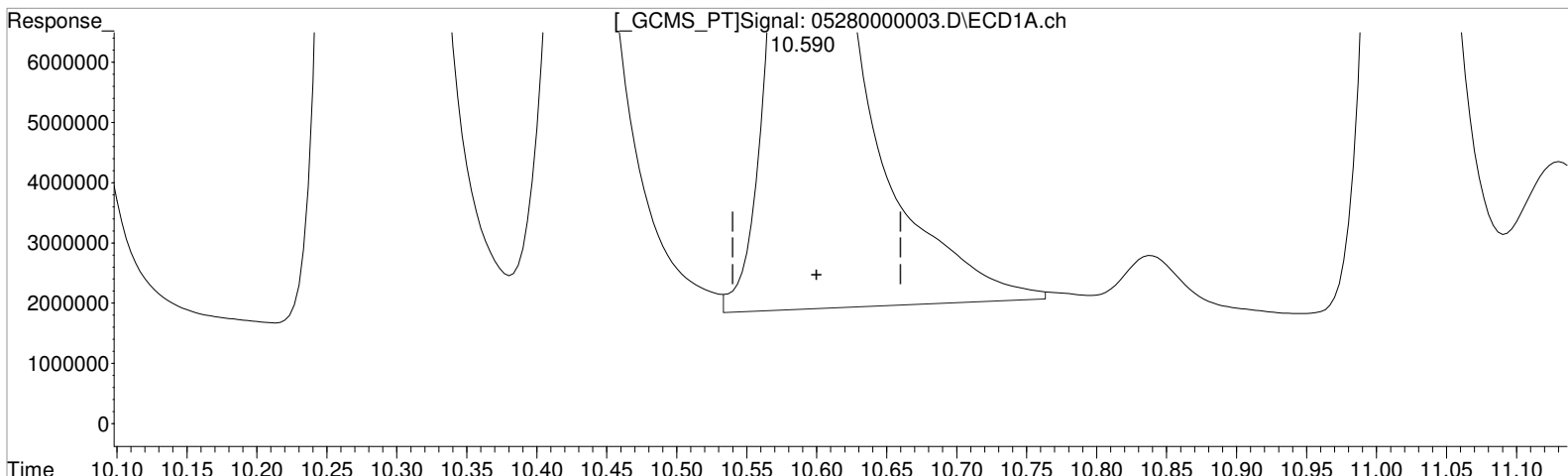
Manual Integration:
 Before
 05/29/21

(5) MCPA #2 (m)
 10.203min 9023.206 ppb
 response 25232891

Data File : J:\GC34\DATA\052821-HB\05280000003.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 16:34:51 Operator: TAP
Sample : PENTA02-29F 100PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:34:33 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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





(5) MCPA (m)
10.590min 10743.001 ppb m
response 52804486

Manual Integration:
After
Baseline/Shoulder
05/29/21

(5) MCPA #2 (m)
10.203min 9023.206 ppb
response 25232891

Validation Report

1st  05/29/21
2nd  05/29/21

Data File: J:\GC34\DATA\052821-HB\05280000017.D\
Lab ID: KQ2109702-03
RunType: CCV
Matrix: Sediment

Date Acquired: 5/28/21 22:09:42
Batch ID: 725573
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *K* 05/29/21
2nd *FW* 05/29/21

Data File: J:\GC34\DATA\052821-HB\0528000017.D\	Instrument: K-GC-34
Acqu Date: 5/28/21 22:09:42	Vial: 3
Run Type: CCV	Dilution: 1
Lab ID: KQ2109702-03	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 4/30/21	Receive Date: 5/3/21

Analysis Lot: 725573	Prep Lot:	Report Group: KQ2109702
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100249
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		% Rec		Rpt?
					Conc 1	Conc 2	1	2	
DCAA	10.04	9.69	82778255	40668899	103.700	89.644			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		Final		Rpt?
					Conc 1	Conc 2	Conc 1	Conc 2	
2,4,5-TP	12.19	11.75	348130359	174960401	119.504	103.903	120	104	Y
2,4-D	11.26	10.89	72531079	37731524	108.548	93.216	109	93.2	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

Printed: 5/29/21 12:15

\\alprews001\starlims\LIMSReps\QuantValidation.rpt

Data File : J:\GC34\DATA\052821-HB\05280000017.D Vial: 1
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28-May-2021, 22:09:42 Operator: TAP
 Sample : PENTA02-29F 100PPB CCV Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 10:35:16 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 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...	10.043	9.687	82778255	40668899	103.700	89.644
Target Compounds						
1) m Dalapon	5.587	5.227	85213504	44379401	83.141	79.833
3) m Dicamba	10.280	9.900	282.8E6	142.0E6	109.340	96.593
4) m MCPP	10.427	9.963	37387488	17361644	11444.726	10064.029
5) m MCPA	10.590	10.203	51893564	24679074	10540.011	8805.747
6) m Dichloroprop	11.017	10.573	78983822	40433261	111.276	97.471
7) m 2,4-D	11.263	10.893	72531079	37731524	108.548	93.216
8) m 2,4,5-TP ...	12.187	11.753	348.1E6	175.0E6	119.504	103.903
9) m 2,4,5-T	12.480	12.147	251.9E6	122.0E6	116.688	98.211
10) m 2,4-DB	13.043	12.667	31669199	14884776	144.021	112.563
11) m Dinoseb	14.277	13.027	217.5E6	109.7E6	111.920	95.840

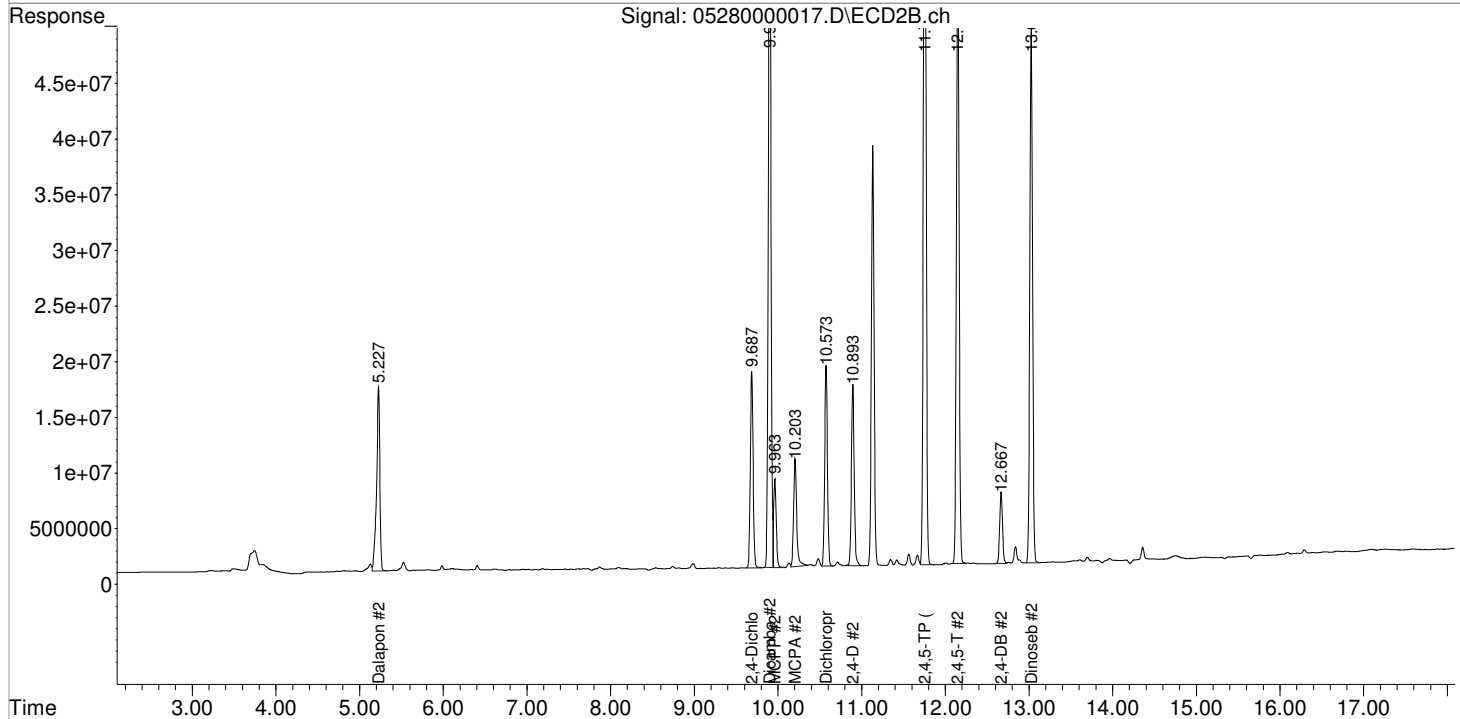
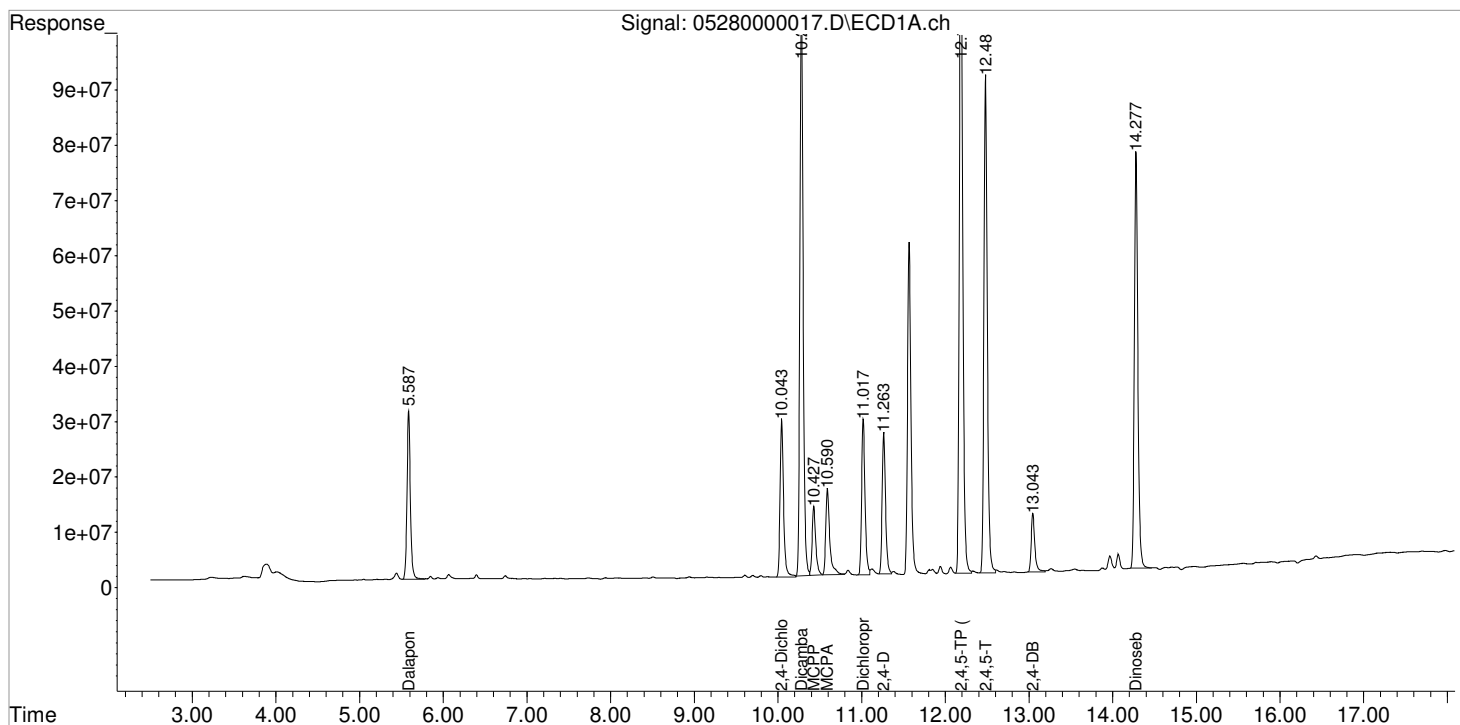
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\052821-HB\05280000017.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28-May-2021, 22:09:42
Sample : PENTA02-29F 100PPB CCV
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:35:16 2021
Quant Results File: 050621_8151.RES

Vial: 1
Operator: TAP
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



Validation Report

1st *[Signature]* 05/29/21
2nd *[Signature]* 05/29/21

Data File: J:\GC34\DATA\052821-HB\05280000027.D\
Lab ID: KQ2109702-05
RunType: CCV
Matrix: Sediment

Date Acquired: 5/29/21 02:08:02
Batch ID: 725573
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *K* 05/29/21
2nd *FW* 05/29/21

Data File: J:\GC34\DATA\052821-HB\05280000027.D\	Instrument: K-GC-34
Acqu Date: 5/29/21 02:08:02	Vial: 5
Run Type: CCV	Dilution: 1
Lab ID: KQ2109702-05	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 4/30/21	Receive Date: 5/3/21

Analysis Lot: 725573	Prep Lot:	Report Group: KQ2109702
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2100249
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
DCAA	10.04	9.68	83394882	40197783	104.473	88.606			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
2,4,5-TP	12.18	11.75	351578379	175566994	120.687	104.264	121	104	Y
2,4-D	11.26	10.89	71986101	37025825	107.732	91.473	108	91.5	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

Printed: 5/29/21 12:15

\\alprews001\starlims\LIMSReps\QuantValidation.rpt

Data File : J:\GC34\DATA\052821-HB\05280000027.D Vial: 1
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29-May-2021, 02:08:02 Operator: TAP
 Sample : PENTA02-29F 100PPB CCV Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 29 10:35:46 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 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

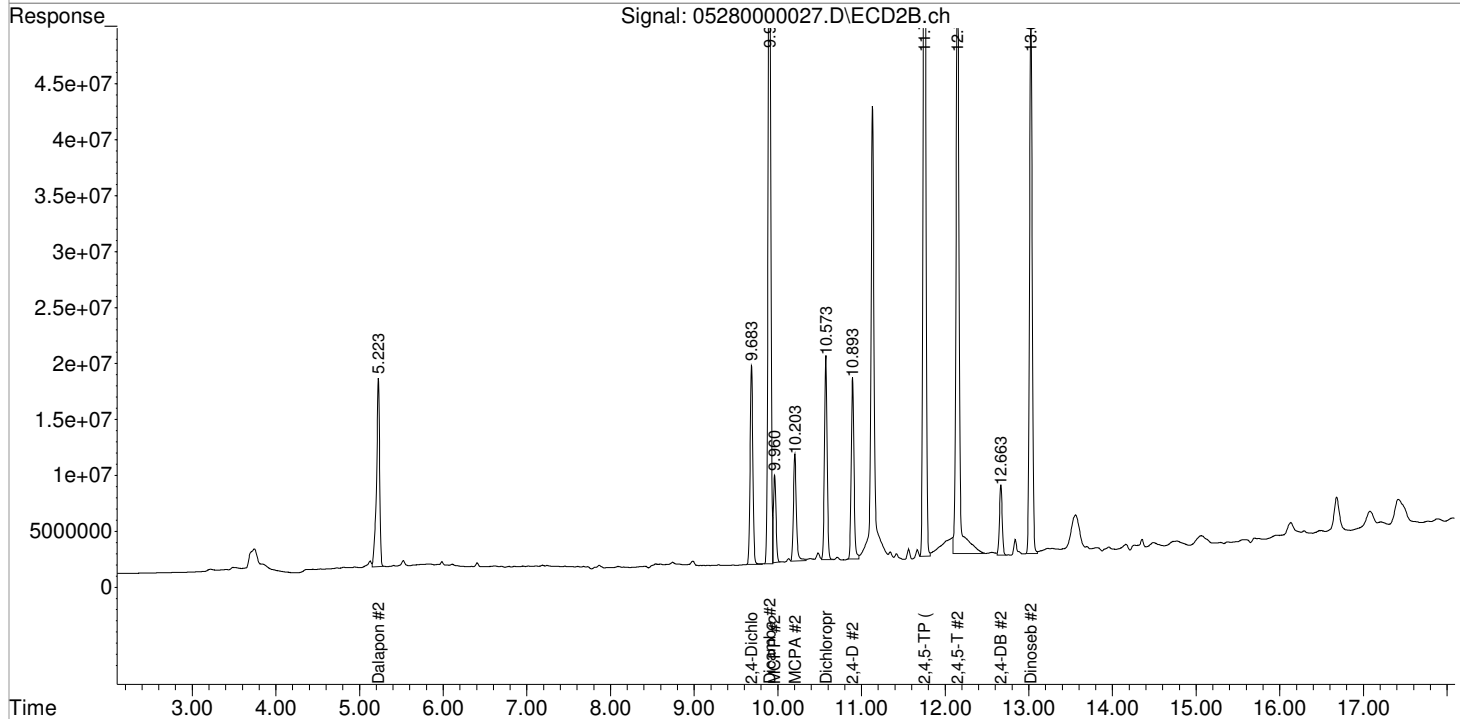
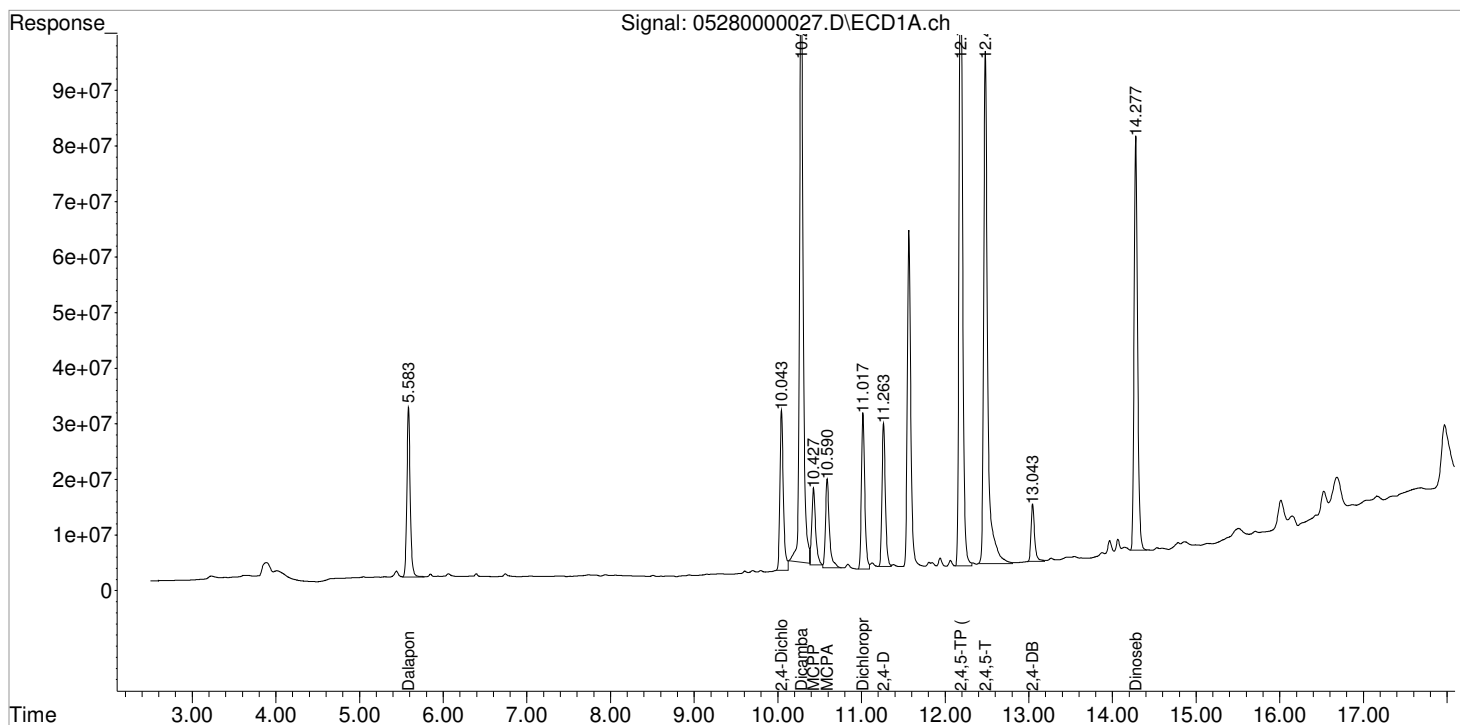
Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	10.043	9.683	83394882	40197783	104.473	88.606
Target Compounds						
1) m Dalapon	5.583	5.223	84072885	43154792	82.028	77.630
3) m Dicamba	10.280	9.900	322.1E6	142.9E6	124.545	97.252
4) m MCPP	10.427	9.960	44043030	16348266	13619.095	9432.872 #
5) m MCPA	10.590	10.203	51390214	23378626	10427.845	8295.119
6) m Dichloroprop	11.017	10.573	78354176	40255805	110.389	97.031
7) m 2,4-D	11.263	10.893	71986101	37025825	107.732	91.473
8) m 2,4,5-TP ...	12.183	11.753	351.6E6	175.6E6	120.687	104.264
9) m 2,4,5-T	12.480	12.147	304.4E6	141.9E6	140.981	114.188
10) m 2,4-DB	13.043	12.663	30653169	14206418	139.400	107.433
11) m Dinoseb	14.277	13.023	214.2E6	109.2E6	110.181	95.343

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

Data File : J:\GC34\DATA\052821-HB\05280000027.D Vial: 1
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29-May-2021, 02:08:02 Operator: TAP
Sample : PENTA02-29F 100PPB CCV Inst : GCI
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 29 10:35:46 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



Sequence Table (Front Injector):

Line	Location	SampleName	Method Name	Num Inj	SampleType
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	PENTA02-29H 10 PPB	8151A-17	1	Sample
5	Vial 3	PENTA02-29I 25 PPB	8151A-17	1	Sample
6	Vial 4	PENTA02-29J 75 PPB	8151A-17	1	Sample
7	Vial 5	PENTA02-29K 100 PPB	8151A-17	1	Sample
8	Vial 6	PENTA02-29L 125 PPB	8151A-17	1	Sample
9	Vial 7	PENTA02-29M 150 PPB	8151A-17	1	Sample
10	Vial 8	PENTA02-29N 175 PPB	8151A-17	1	Sample
11	Vial 9	PENTA02-30A 200 PPB	8151A-17	1	Sample
12	Vial 10	PENTA02-29G 100 PPB ICV	8151A-17	1	Sample
13	Vial 1	IB	8151A-17	1	Sample

Data File : J:\GC34\DATA\050621-HB\05060000003.D Vial: 1
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06-May-2021, 11:08:09 Operator: JTC
 Sample : IB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 06 15:53:00 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 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	5.650f	5.177f	278218	95141	0.271	0.171 #
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.	N.D.
6) m Dichloroprop	0.000	10.600	0	1502414	N.D.	0.973 #
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.

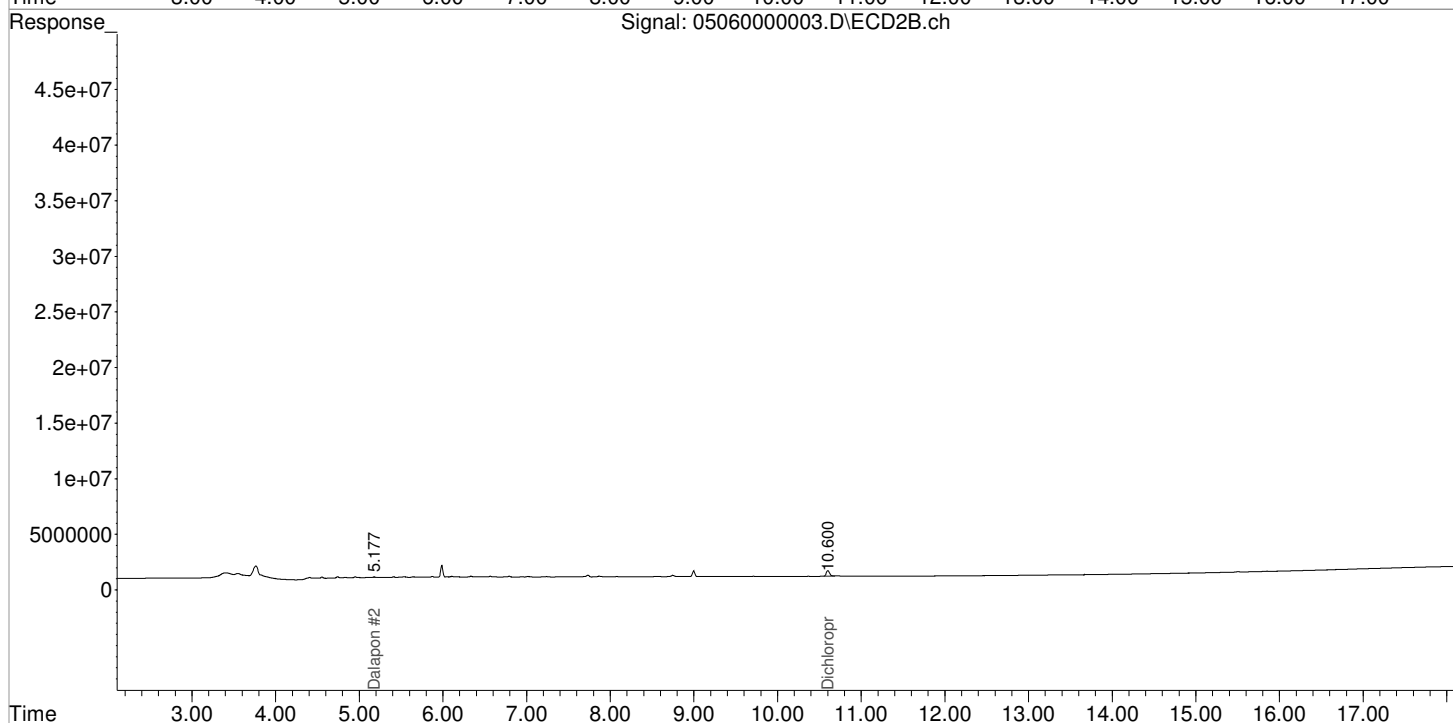
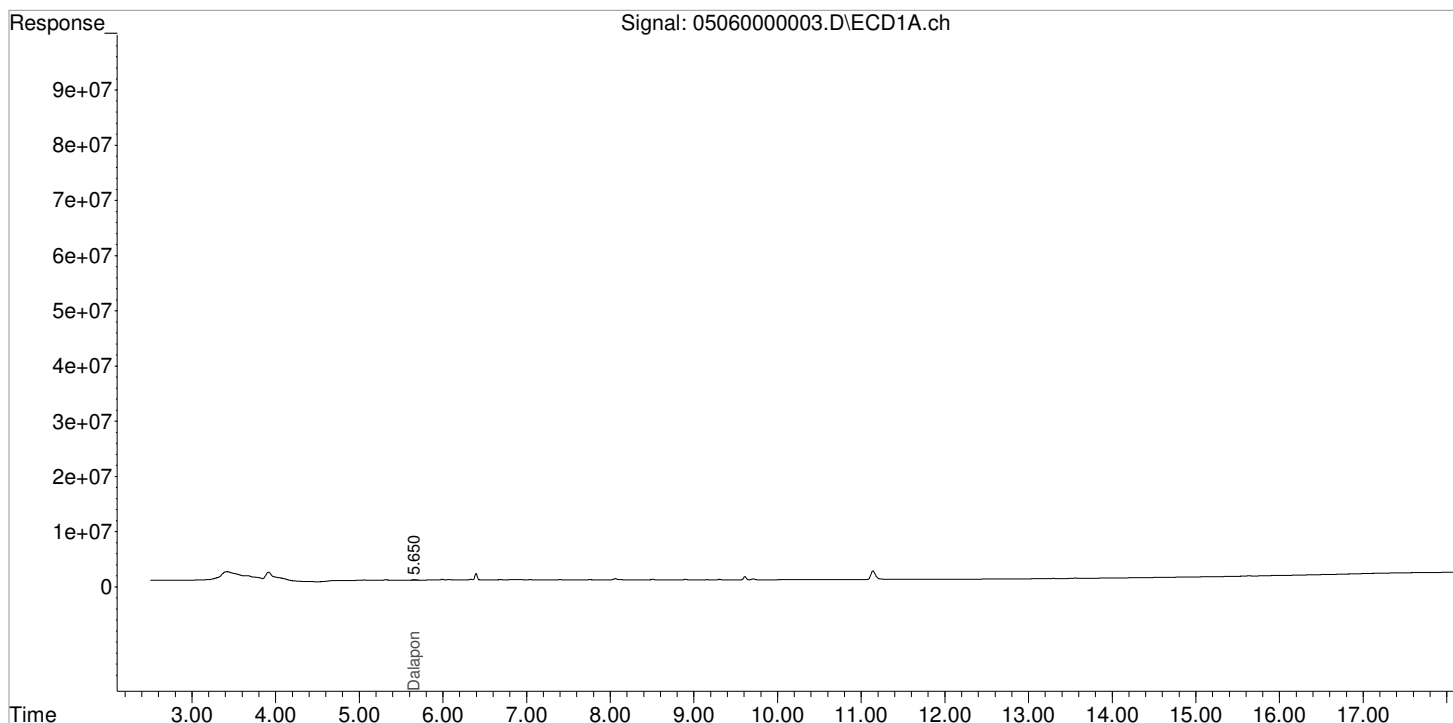
Data File : J:\GC34\DATA\050621-HB\05060000003.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 11:08:09
Sample : IB
Misc :

Vial: 1
Operator: JTC
Inst : GCI
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 15:53:00 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



Data File : J:\GC34\DATA\050621-HB\05060000004.D Vial: 2
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06-May-2021, 11:32:20 Operator: JTC
 Sample : PENTA02-29H 10 PPB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 06 13:18:25 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 13:18:05 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...	10.053	9.697	7346212	4609674	9.104	10.869
Target Compounds						
1) m Dalapon	5.597	5.237	10092232	5965081	10.523	11.756
3) m Dicamba	10.290	9.910	21119770	13316308	8.225	9.811
4) m MCPP	10.437	9.973	4802139	2315537	680.332	900.307 #
5) m MCPA	10.603	10.213	7821465	4008211	844.876	765.726
6) m Dichloroprop	11.030	10.587	6781972	5431372	9.388	10.005
7) m 2,4-D	11.277	10.907	5557251	3692787	7.756	9.461
8) m 2,4,5-TP ...	12.200	11.767	22470601	14335364	7.326	9.049
9) m 2,4,5-T	12.497	12.163	14959153	9702270	5.979	7.681 #
10) m 2,4-DB	13.063	12.683	1812178	1128367	5.391	6.571
11) m Dinoseb	14.297	13.040	18023759	11604338	8.893	10.826

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

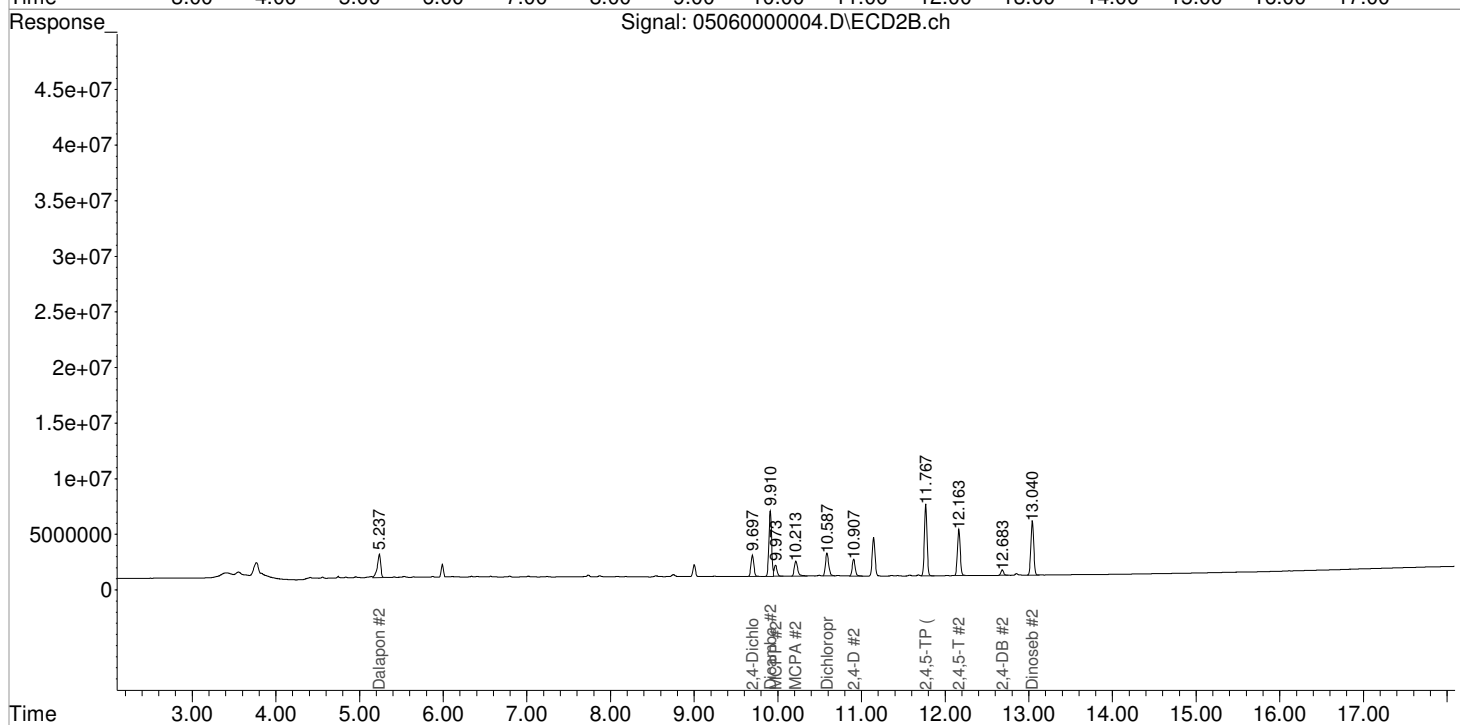
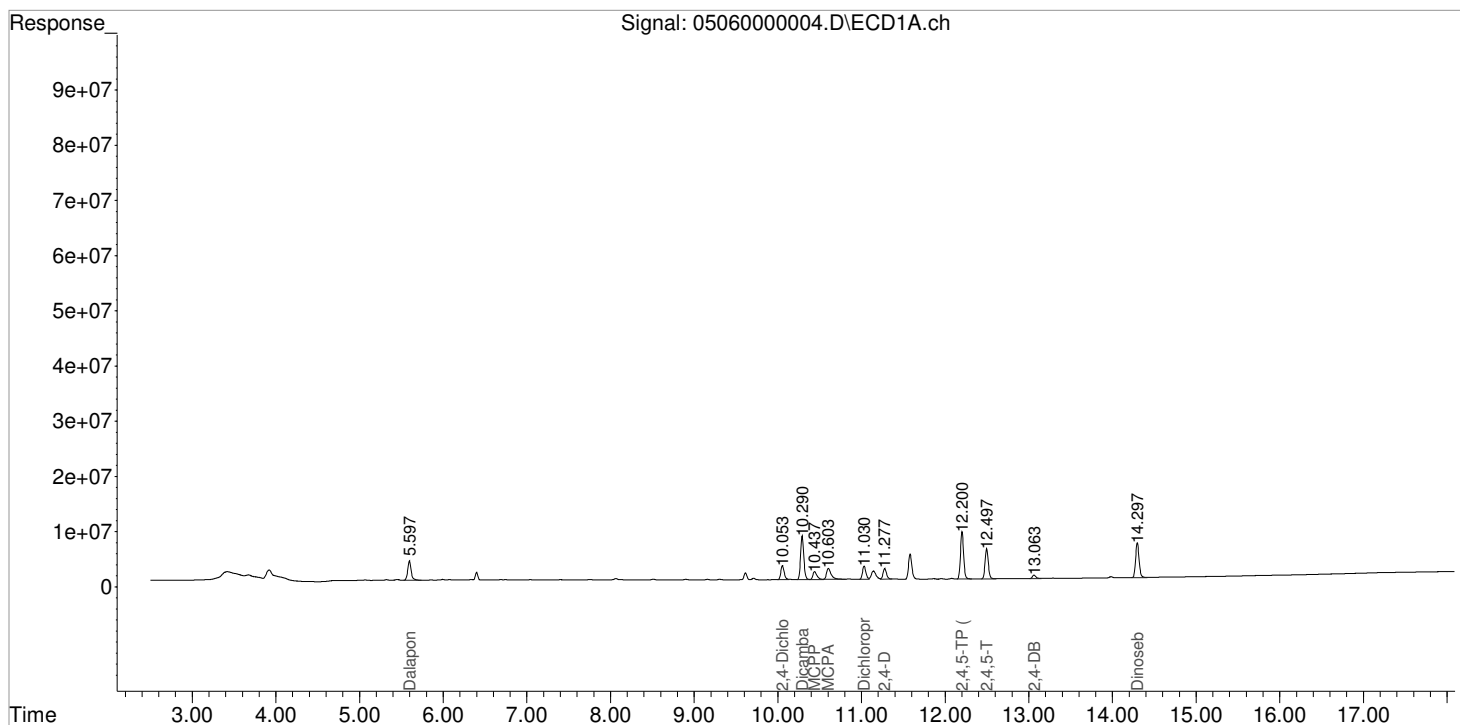
Data File : J:\GC34\DATA\050621-HB\05060000004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 11:32:20
Sample : PENTA02-29H 10 PPB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 13:18:25 2021
Quant Results File: 050621_8151.RES

Vial: 2

Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 13:18:05 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



Data File : J:\GC34\DATA\050621-HB\05060000005.D Vial: 3
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06-May-2021, 11:56:24 Operator: JTC
 Sample : PENTA02-29I 25 PPB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 06 13:18:27 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_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...	10.047	9.690	19017345	11264046	23.568	26.559
Target Compounds						
1) m Dalapon	5.590	5.230	25290160	14284873	26.370	28.152
3) m Dicamba	10.283	9.903	59600720	35157935	23.213	25.903
4) m MCPP	10.433	9.967	10110364	5245236	2442.005	2810.819
5) m MCPA	10.597	10.210	16042531	8740132	2396.774	2746.297
6) m Dichloroprop	11.027	10.580	17283481	11337536	23.925	25.877
7) m 2,4-D	11.270	10.900	14756495	9741772	20.595	24.958
8) m 2,4,5-TP ...	12.197	11.763	66389729	39784898	21.646	25.114
9) m 2,4,5-T	12.490	12.157	46310217	27795095	18.509	22.005
10) m 2,4-DB	13.057	12.677	5018867	3091651	14.930	18.004
11) m Dinoseb	14.290	13.037	47205668	28921236	23.292	26.982

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

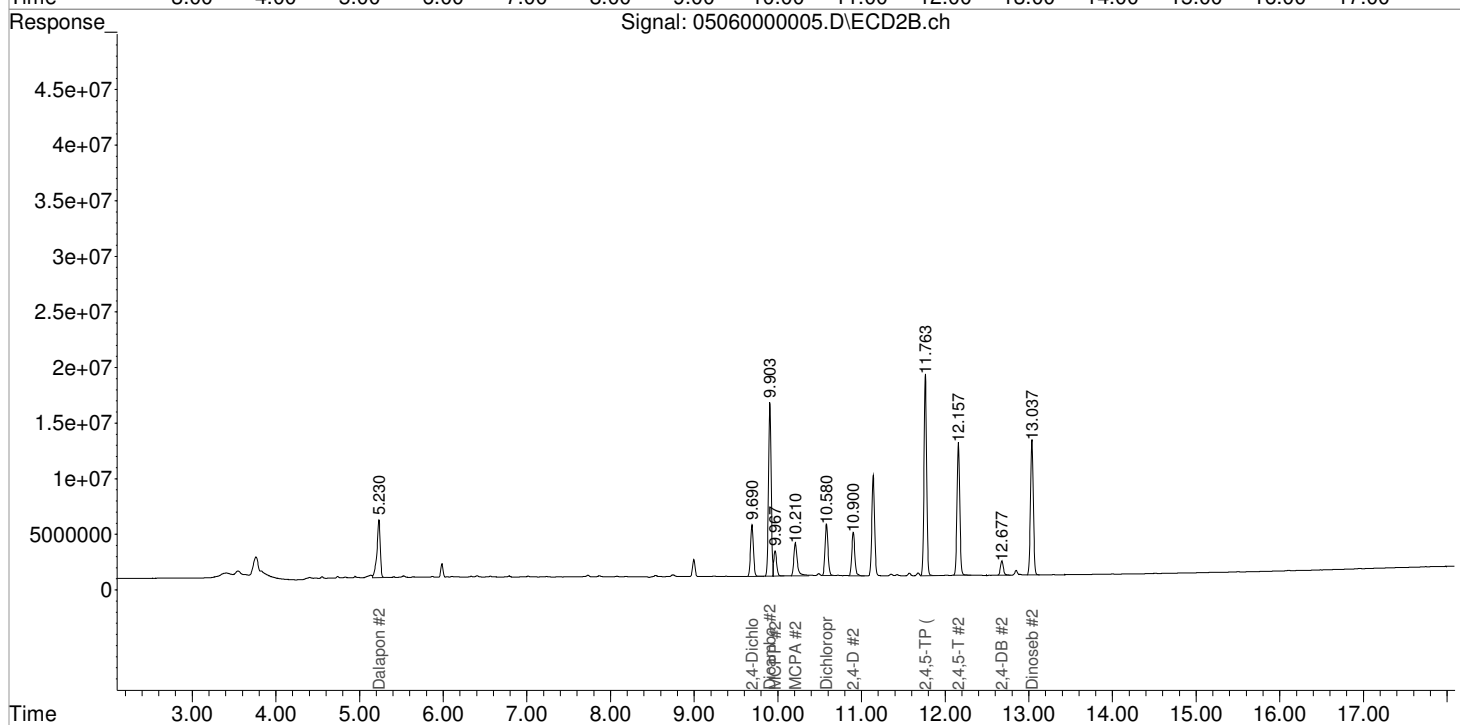
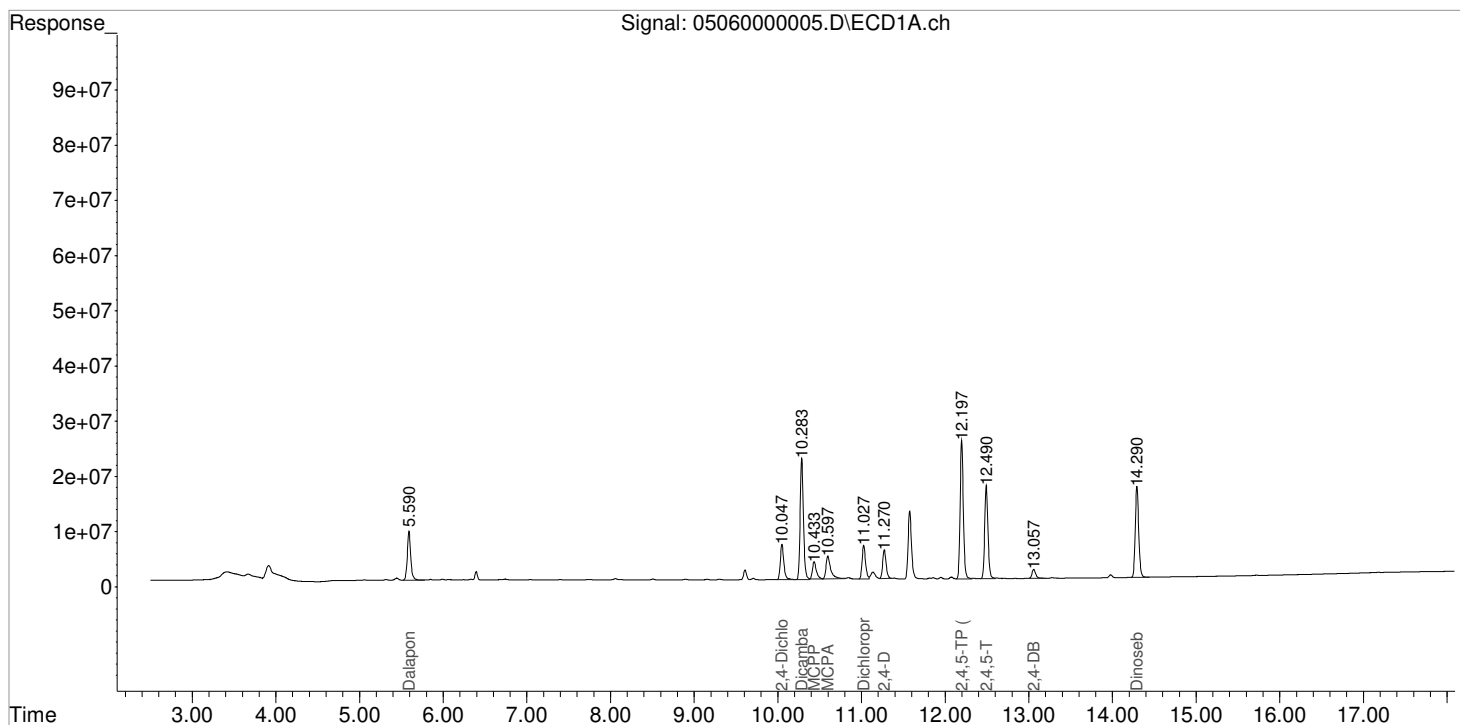
Data File : J:\GC34\DATA\050621-HB\05060000005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 11:56:24
Sample : PENTA02-29I 25 PPB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 13:18:27 2021
Quant Results File: 050621_8151.RES

Vial: 3

Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050621_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



Data File : J:\GC34\DATA\050621-HB\05060000006.D Vial: 4
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06-May-2021, 12:20:23 Operator: JTC
 Sample : PENTA02-29J 75 PPB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 06 13:18:31 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_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...	10.047	9.690	51766264	29199264	64.154	68.847
Target Compounds						
1) m Dalapon	5.590	5.230	67713602	36567575	70.606	72.067
3) m Dicamba	10.283	9.903	177.5E6	99633861	69.136	73.407
4) m MCPP	10.433	9.967	23705007	12689996	6953.744	7665.689
5) m MCPA	10.597	10.210	36024433	20117838	6364.316	7508.497
6) m Dichloroprop	11.027	10.580	48762263	28630160	67.501	72.347
7) m 2,4-D	11.270	10.900	45466152	27028500	63.456	69.246
8) m 2,4,5-TP ...	12.197	11.763	200.7E6	115.3E6	65.450	72.776
9) m 2,4,5-T	12.490	12.157	146.8E6	83779943	58.657	66.327
10) m 2,4-DB	13.057	12.677	14711944	8920297	43.765	51.946
11) m Dinoseb	14.290	13.037	131.6E6	77023868	64.947	71.858

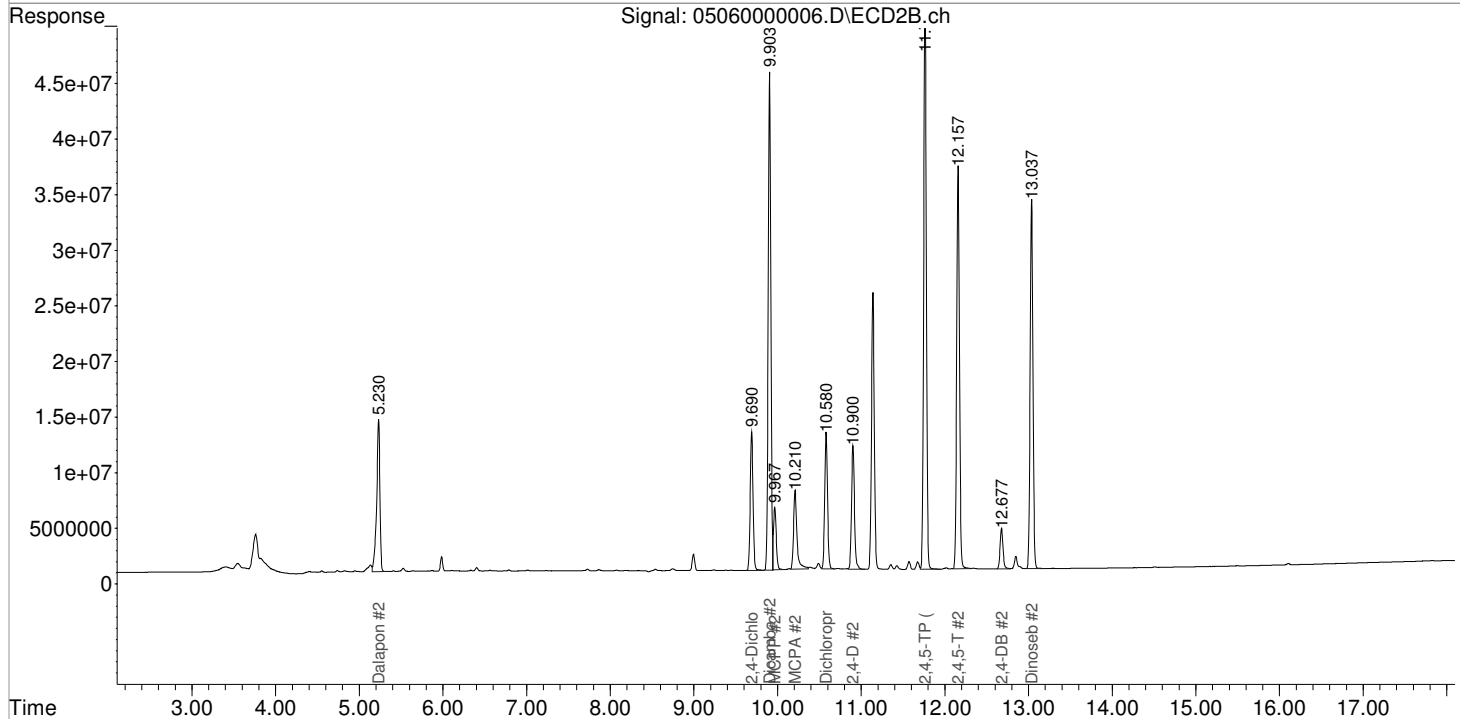
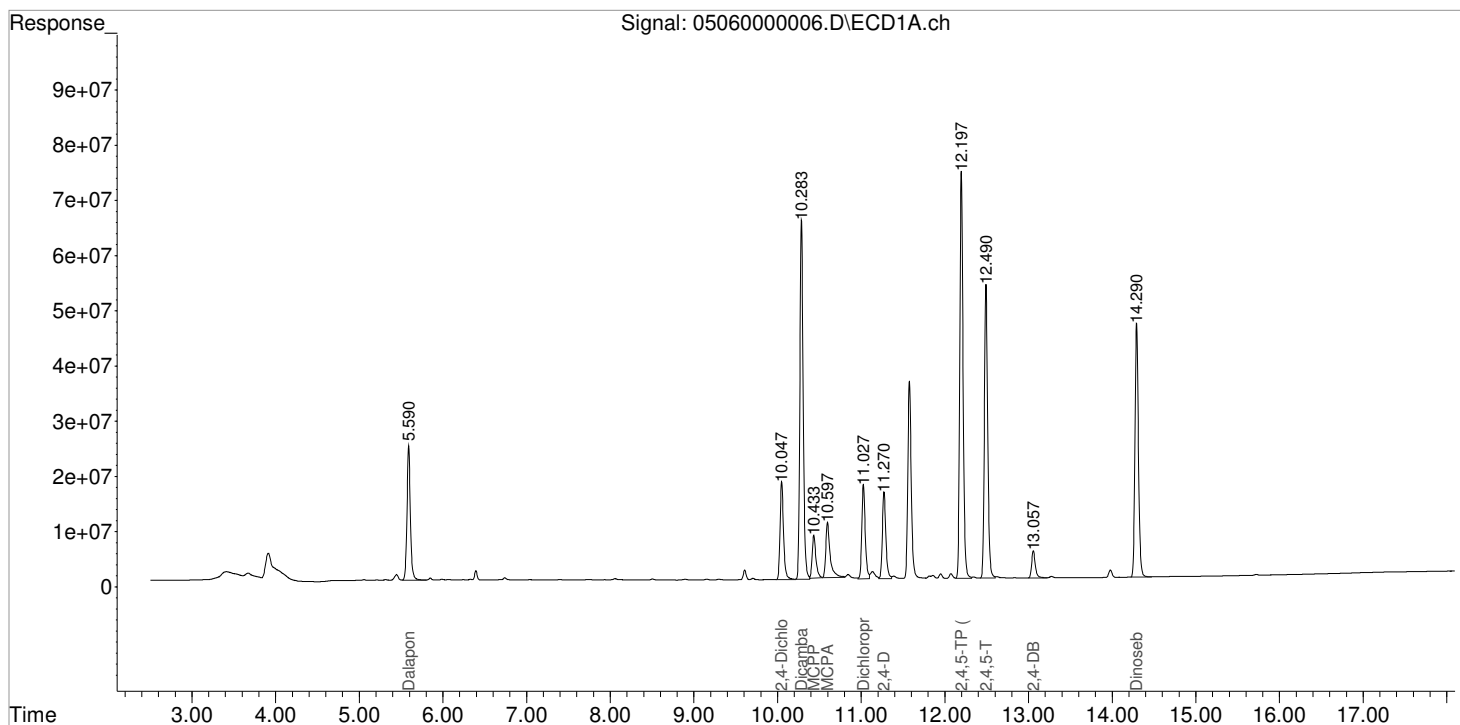
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\050621-HB\05060000006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 12:20:23
Sample : PENTA02-29J 75 PPB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 13:18:31 2021
Quant Results File: 050621_8151.RES

Vial: 4
Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050621_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



Data File : J:\GC34\DATA\050621-HB\05060000007.D Vial: 5
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06-May-2021, 12:44:18 Operator: JTC
 Sample : PENTA02-29K 100 PPB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 06 13:18:33 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_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...	10.050	9.690	70349854	39203228	87.185	92.435
Target Compounds						
1) m Dalapon	5.590	5.230	91568936	48876216	95.480	96.324
3) m Dicamba	10.287	9.903	243.6E6	136.5E6	94.862	100.558
4) m MCPP	10.433	9.967	31164571	16131014	9429.396	9909.643
5) m MCPA	10.597	10.210	46563042	26146775	8585.974	10031.940
6) m Dichloroprop	11.027	10.580	64941458	38455734	89.898	98.751
7) m 2,4-D	11.270	10.900	61027344	37001862	85.174	94.798
8) m 2,4,5-TP ...	12.197	11.763	278.6E6	158.6E6	90.829	100.130
9) m 2,4,5-T	12.490	12.157	206.0E6	117.0E6	82.320	92.605
10) m 2,4-DB	13.057	12.677	20258187	12246002	60.264	71.312
11) m Dinoseb	14.293	13.037	180.1E6	104.3E6	88.869	97.264

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

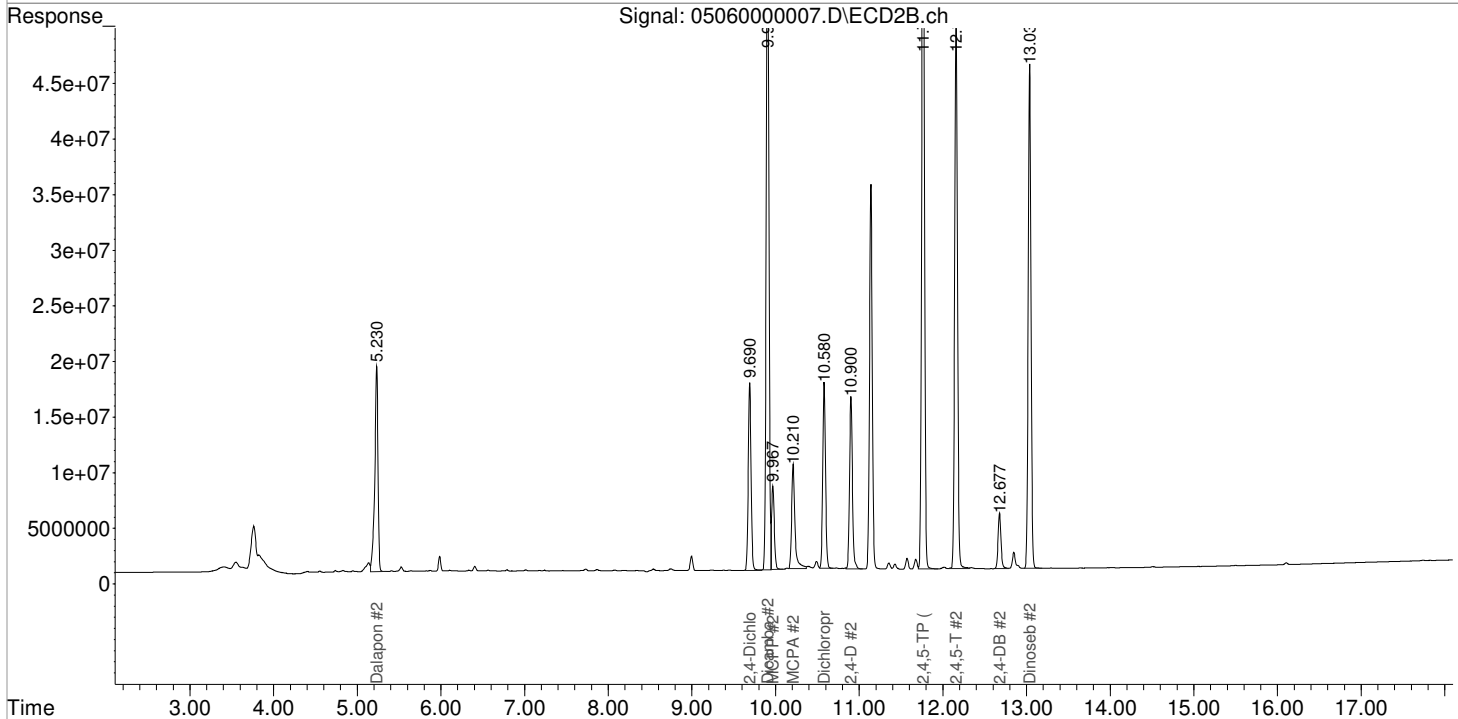
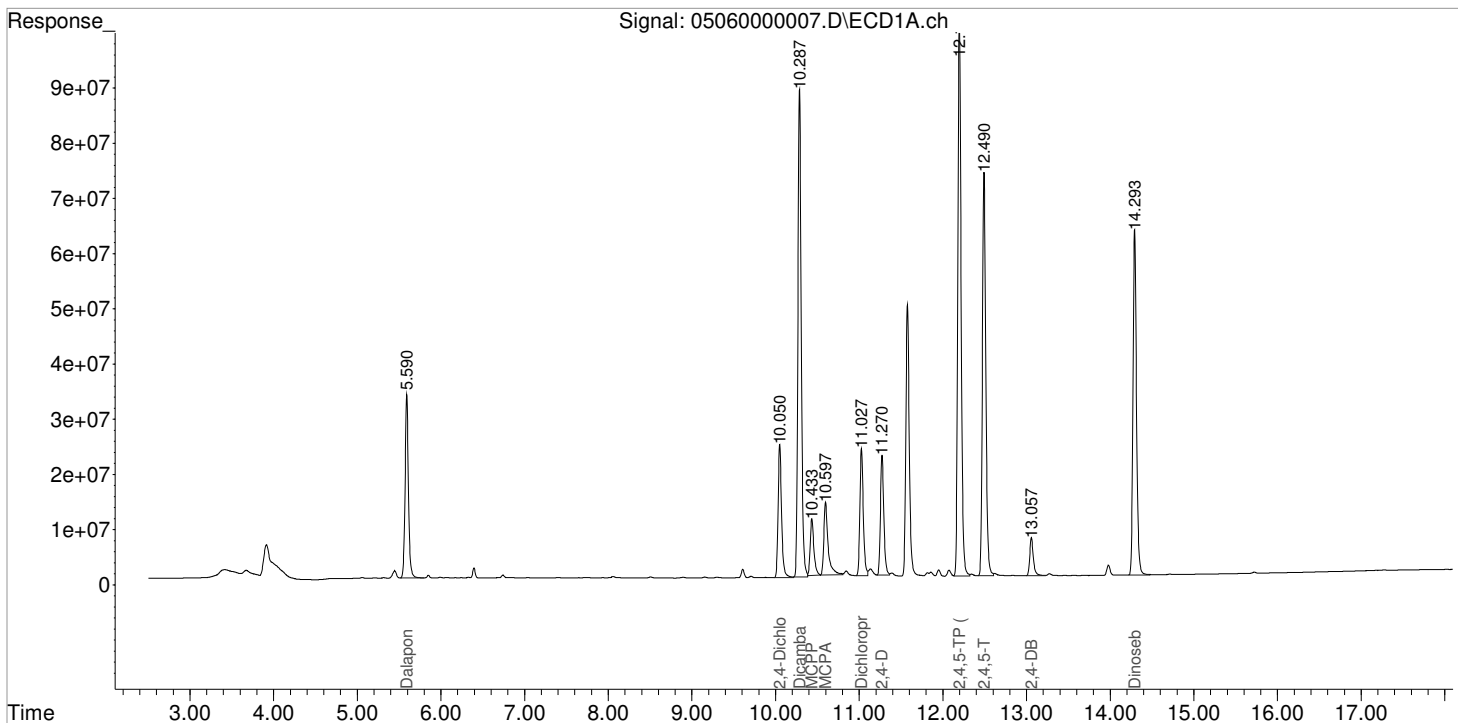
Data File : J:\GC34\DATA\050621-HB\05060000007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 12:44:18
Sample : PENTA02-29K 100 PPB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 13:18:33 2021
Quant Results File: 050621_8151.RES

Vial: 5

Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050621_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



Data File : J:\GC34\DATA\050621-HB\05060000008.D Vial: 6
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06-May-2021, 13:08:11 Operator: JTC
 Sample : PENTA02-29L 125 PPB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 06 15:32:33 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_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...	10.050	9.690	88784421	49264861	110.031	116.158
Target Compounds						
1) m Dalapon	5.590	5.233	113.4E6	59894914	118.197	118.040
3) m Dicamba	10.287	9.903	311.6E6	173.6E6	121.343	127.927
4) m MCPP	10.433	9.967	38269446	20201531	11787.335	12564.104
5) m MCPA	10.597	10.210	57297558	32103973	10957.559	12525.357
6) m Dichloroprop	11.027	10.580	82512251	48261533	114.221	125.102
7) m 2,4-D	11.273	10.903	81250421	47279514	113.399	121.129
8) m 2,4,5-TP ...	12.197	11.763	358.2E6	203.0E6	116.779	128.168
9) m 2,4,5-T	12.490	12.157	268.9E6	151.7E6	107.482	120.084
10) m 2,4-DB	13.057	12.677	26494780	15886130	78.816	92.510
11) m Dinoseb	14.290	13.037	229.2E6	132.0E6	113.095	123.108

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

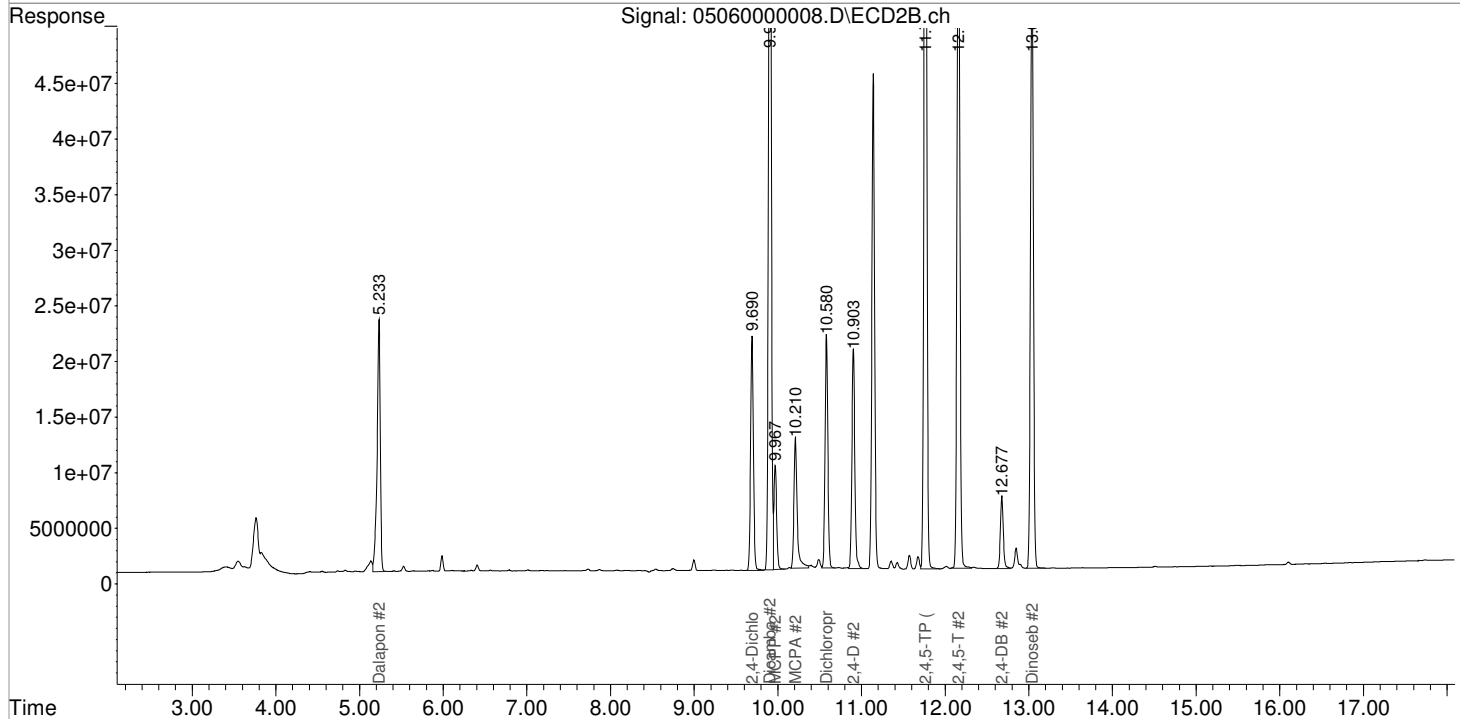
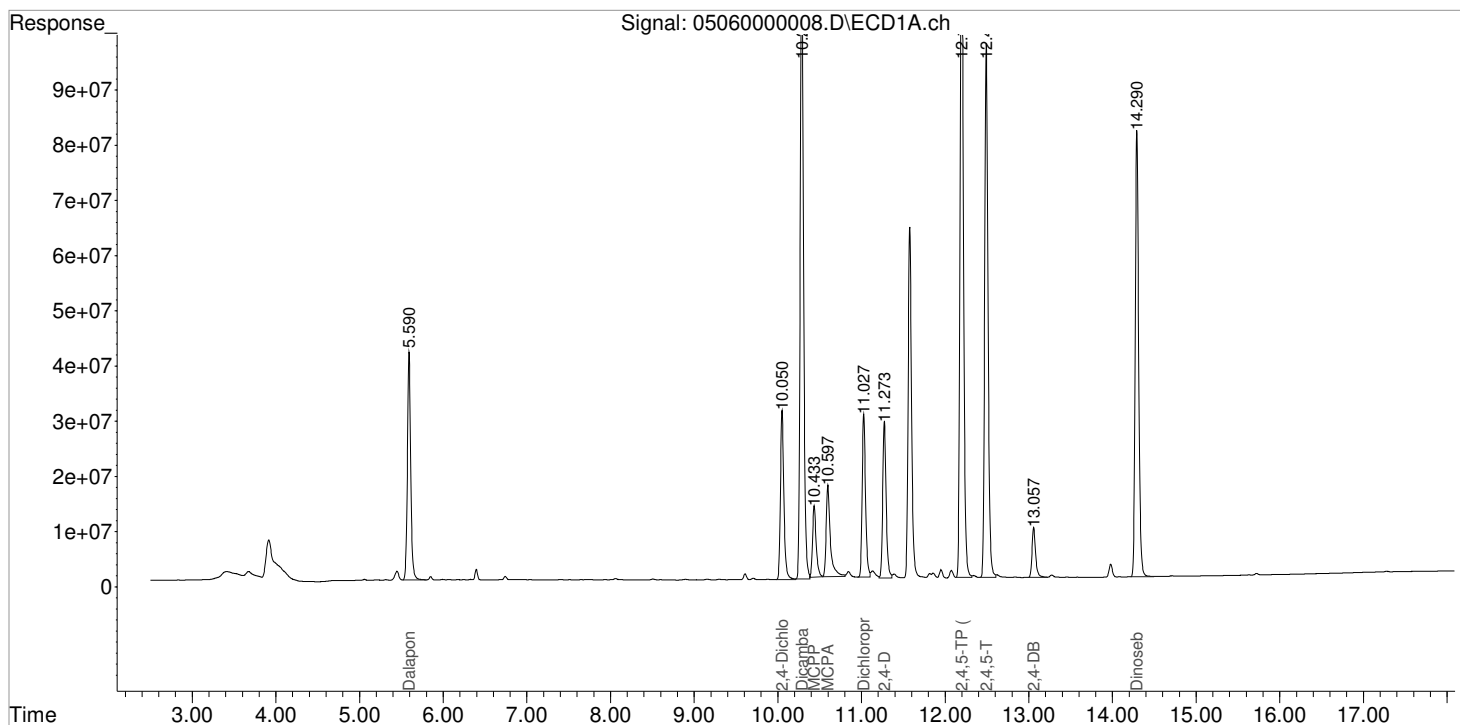
Data File : J:\GC34\DATA\050621-HB\05060000008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 13:08:11
Sample : PENTA02-29L 125 PPB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 15:32:33 2021
Quant Results File: 050621_8151.RES

Vial: 6

Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050621_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



Data File : J:\GC34\DATA\050621-HB\05060000009.D Vial: 7
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06-May-2021, 13:32:07 Operator: JTC
 Sample : PENTA02-29M 150 PPB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 06 15:32:36 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_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...	10.050	9.690	107.2E6	59361041	132.852	139.964
Target Compounds						
1) m Dalapon	5.590	5.233	136.3E6	71696219	142.103	141.298
3) m Dicamba	10.287	9.907	379.8E6	210.9E6	147.908	155.363
4) m MCPP	10.433	9.967	45103329	23931941	14055.338	14996.776
5) m MCPA	10.597	10.210	67173083	38091222	13251.191	15031.352
6) m Dichloroprop	11.027	10.580	100.5E6	58321947	139.134	152.137
7) m 2,4-D	11.270	10.900	99445417	58352940	138.793	149.499
8) m 2,4,5-TP ...	12.197	11.763	440.2E6	250.0E6	143.528	157.803
9) m 2,4,5-T	12.490	12.157	336.3E6	188.6E6	134.426	149.289
10) m 2,4-DB	13.057	12.677	32434775	19240547	96.486	112.043
11) m Dinoseb	14.290	13.037	278.0E6	160.5E6	137.158	149.713

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

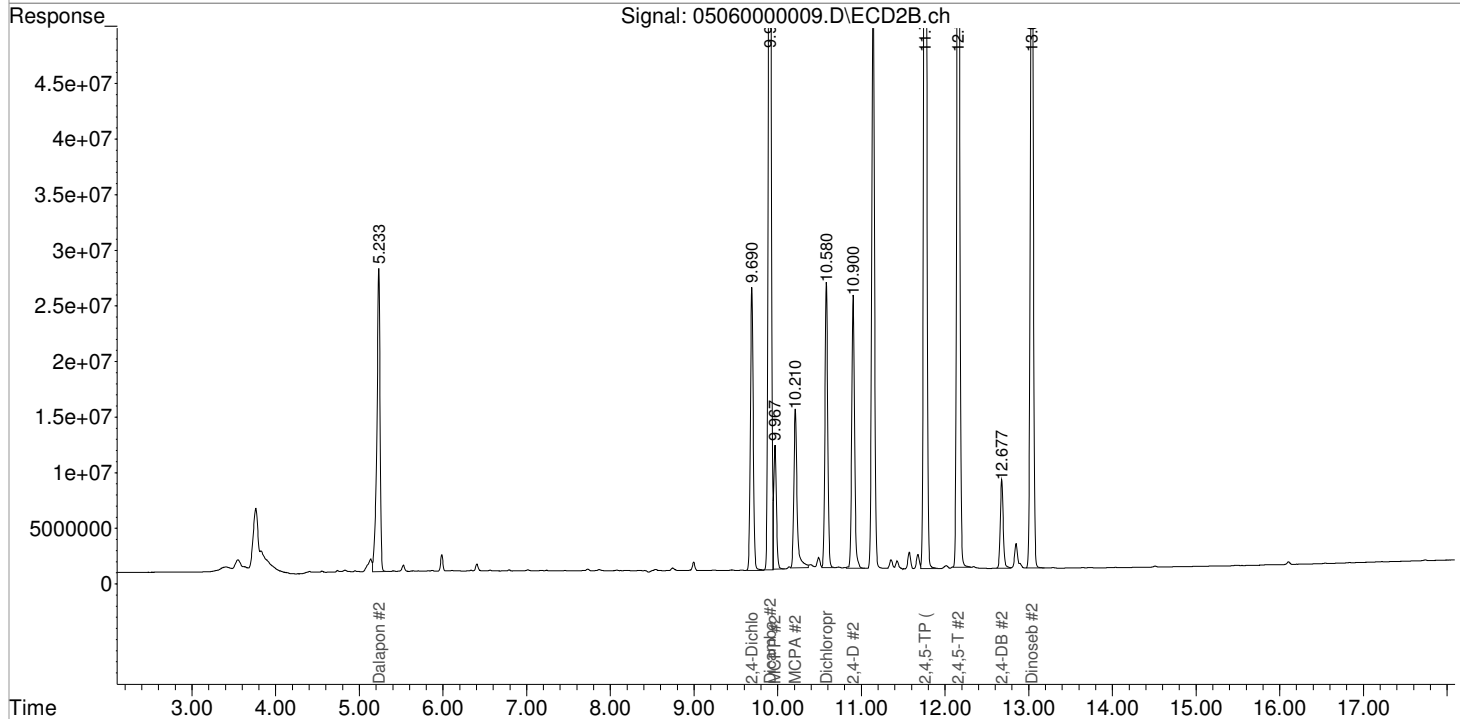
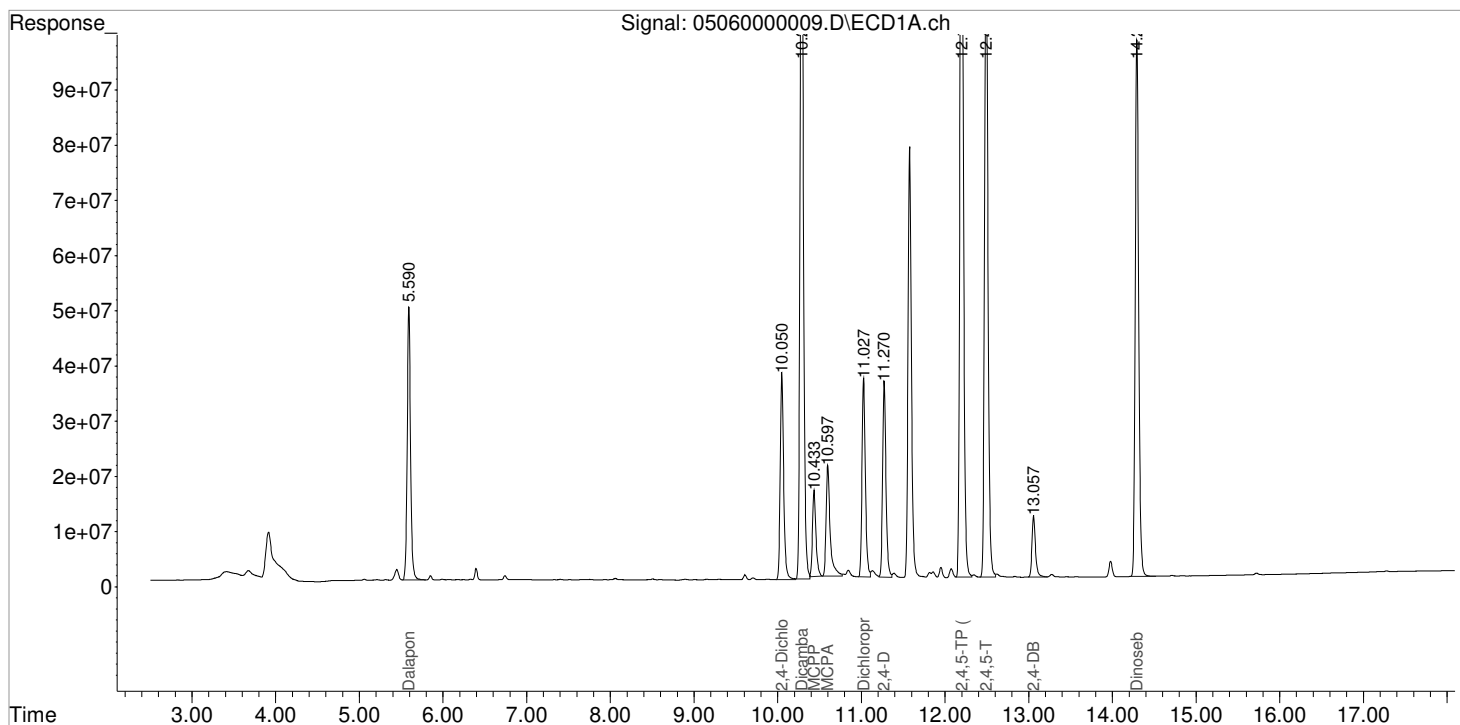
Data File : J:\GC34\DATA\050621-HB\05060000009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 13:32:07
Sample : PENTA02-29M 150 PPB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 15:32:36 2021
Quant Results File: 050621_8151.RES

Vial: 7

Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050621_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



Data File : J:\GC34\DATA\050621-HB\05060000010.D Vial: 8
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06-May-2021, 13:56:04 Operator: JTC
 Sample : PENTA02-29N 175 PPB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 06 15:32:38 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_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...	10.050	9.690	126.6E6	69179269	156.894	163.113
Target Compounds						
1) m Dalapon	5.593	5.233	158.9E6	83291421	165.701	164.149
3) m Dicamba	10.287	9.903	448.0E6	246.9E6	174.498	181.942
4) m MCPP	10.433	9.967	53273196	27578560	16766.723	17374.806
5) m MCPA	10.597	10.210	78494479	43919168	16036.005	17470.670
6) m Dichloroprop	11.027	10.580	118.7E6	68129640	164.340	178.493
7) m 2,4-D	11.270	10.900	116.9E6	68890938	163.089	176.497
8) m 2,4,5-TP ...	12.197	11.763	523.0E6	294.3E6	170.532	185.765
9) m 2,4,5-T	12.490	12.157	402.5E6	225.4E6	160.862	178.457
10) m 2,4-DB	13.057	12.677	39541350	23317133	117.627	135.783
11) m Dinoseb	14.290	13.037	329.1E6	187.6E6	162.382	175.006

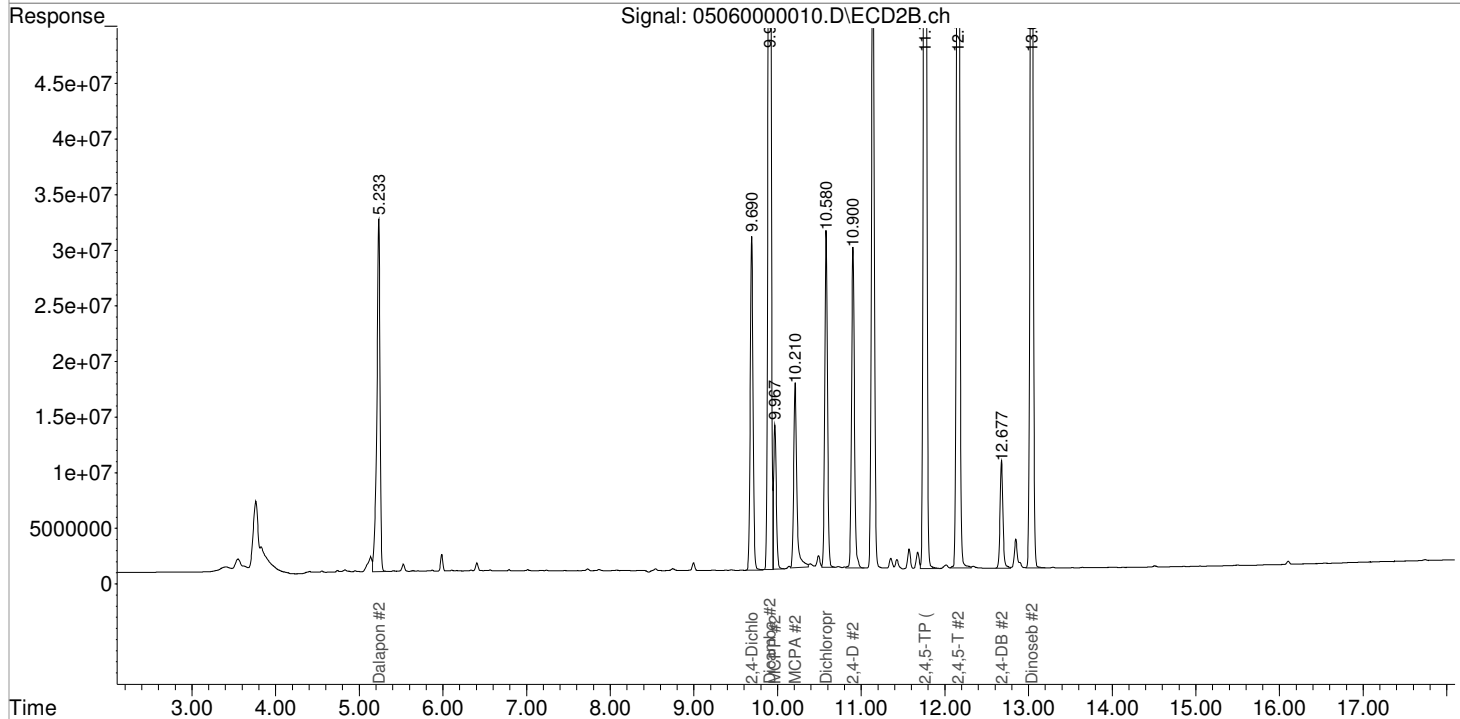
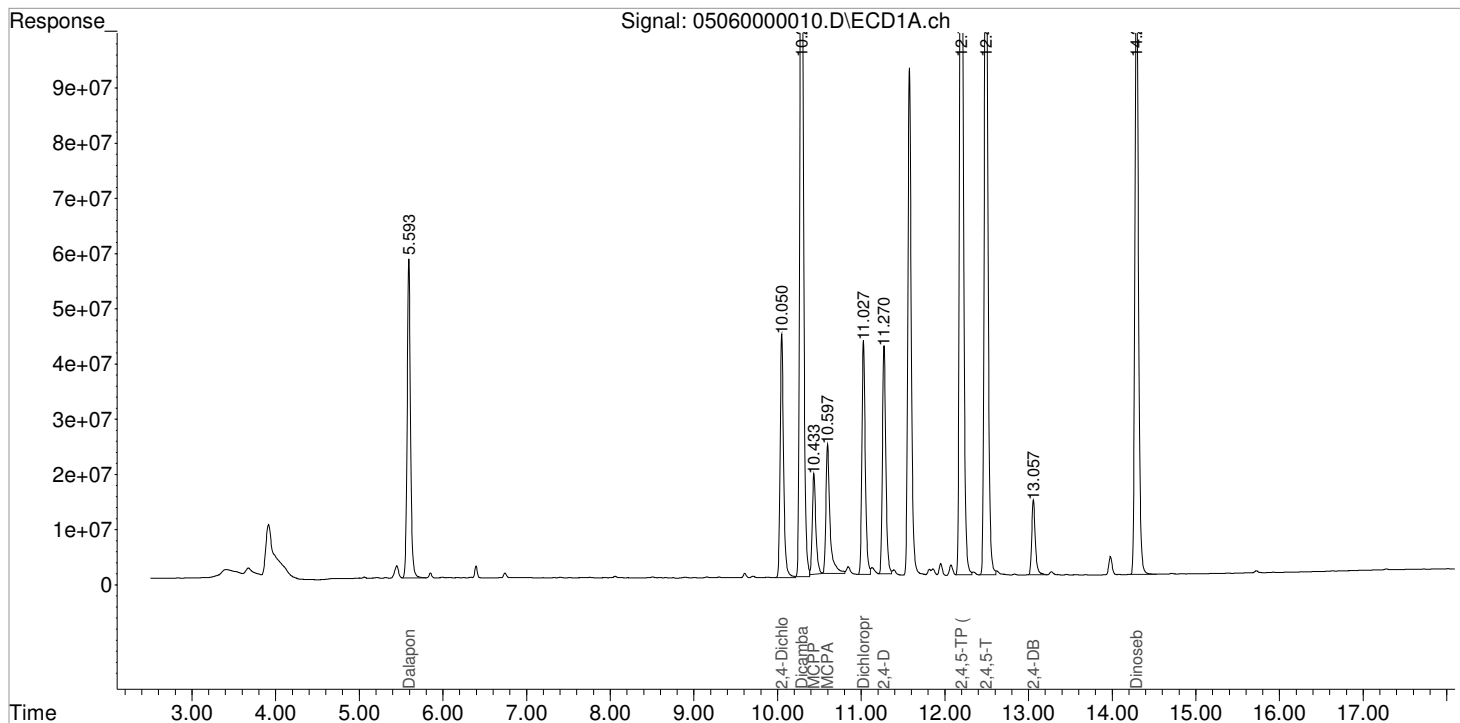
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\050621-HB\05060000010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 13:56:04
Sample : PENTA02-29N 175 PPB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 15:32:38 2021
Quant Results File: 050621_8151.RES

Vial: 8
Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050621_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



Data File : J:\GC34\DATA\050621-HB\05060000011.D Vial: 9
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06-May-2021, 14:20:04 Operator: JTC
 Sample : PENTA02-30A 200 PPB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 06 15:32:42 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_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...	10.047	9.690	144.4E6	79019704	178.907	186.316
Target Compounds						
1) m Dalapon	5.590	5.230	181.0E6	94611511	188.704	186.459
3) m Dicamba	10.283	9.903	513.9E6	283.3E6	200.136	208.723
4) m MCPP	10.433	9.967	59509089	31138556	18836.268	19696.347
5) m MCPA	10.597	10.210	88046242	49602394	18539.580	19849.415
6) m Dichloroprop	11.027	10.580	136.3E6	77744014	188.683	204.329
7) m 2,4-D	11.270	10.900	136.6E6	78866131	190.593	202.053
8) m 2,4,5-TP ...	12.197	11.760	600.2E6	337.1E6	195.694	212.766
9) m 2,4,5-T	12.490	12.157	463.1E6	259.1E6	185.105	205.102
10) m 2,4-DB	13.057	12.677	46127499	27013556	137.219	157.308
11) m Dinoseb	14.290	13.037	375.8E6	214.4E6	185.434	199.988

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

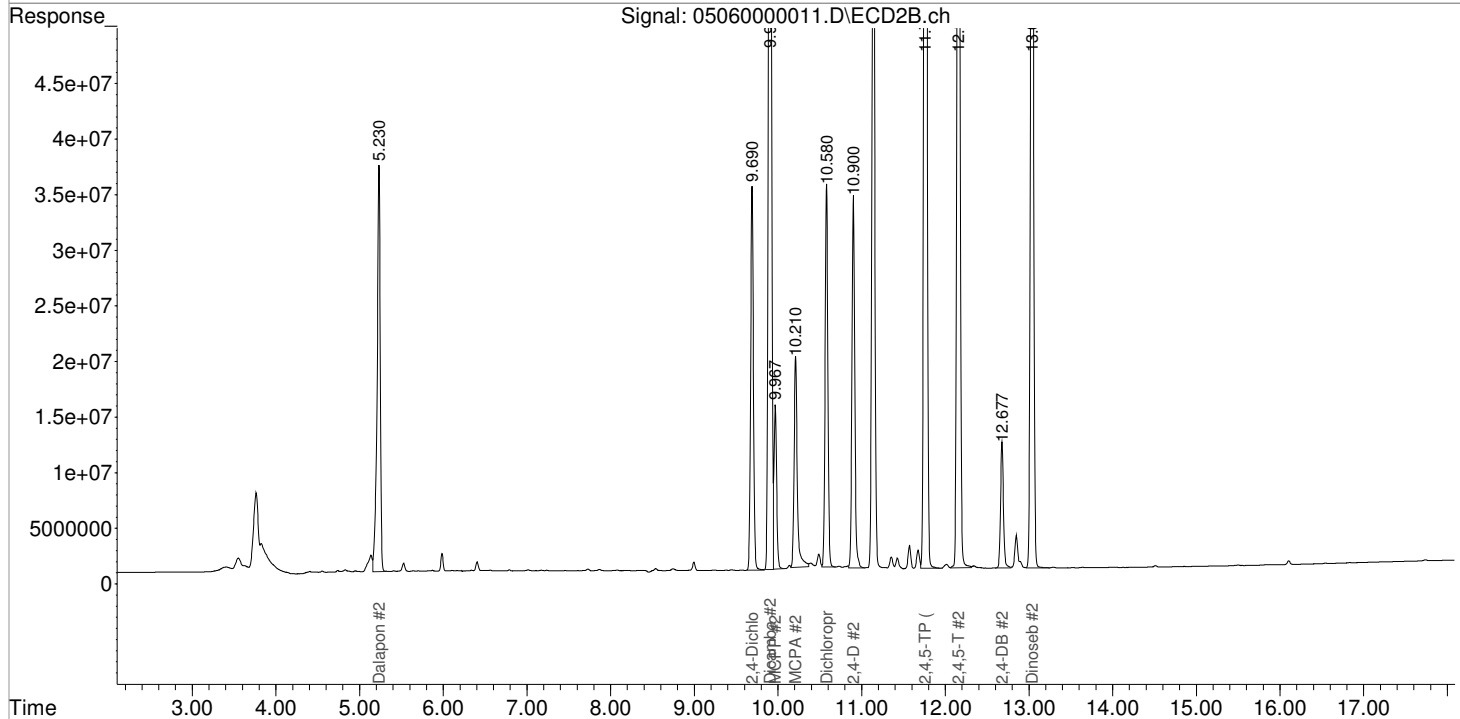
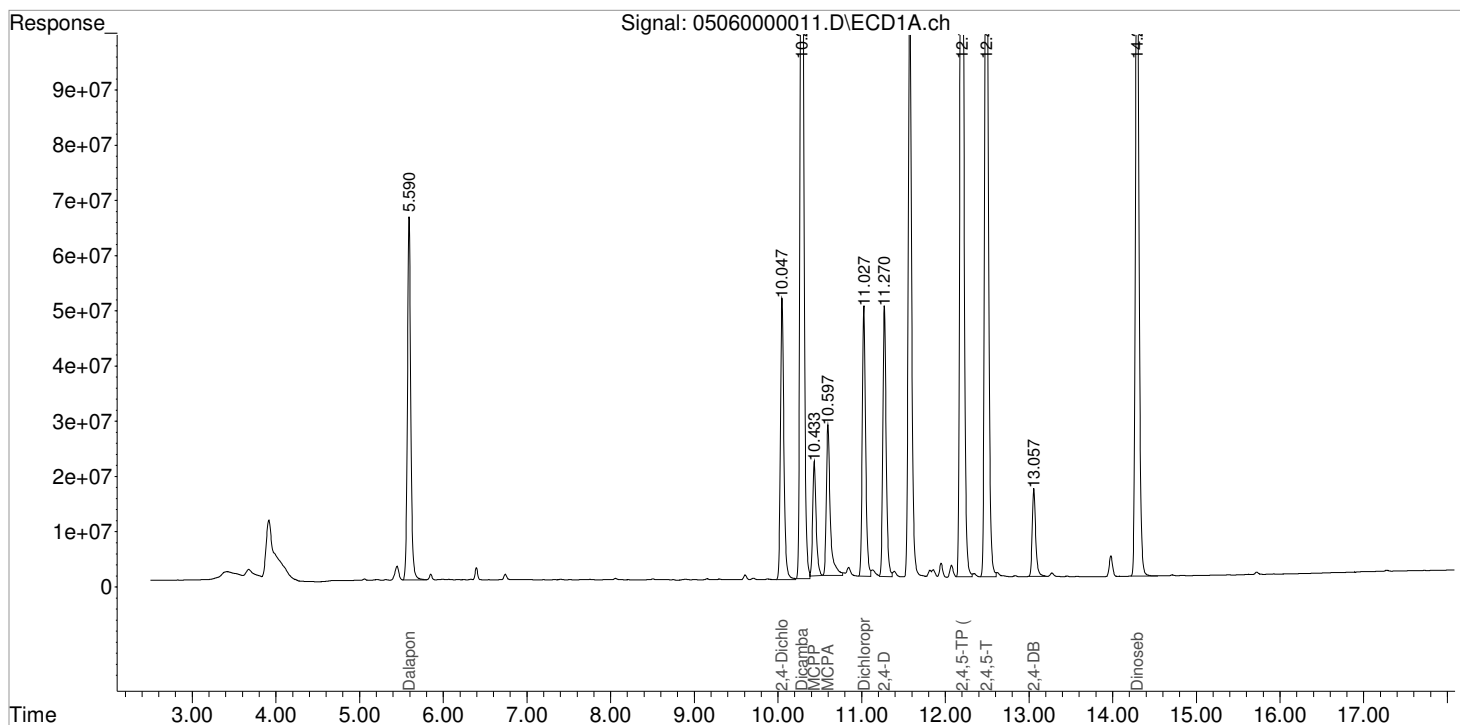
Data File : J:\GC34\DATA\050621-HB\05060000011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 14:20:04
Sample : PENTA02-30A 200 PPB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 15:32:42 2021
Quant Results File: 050621_8151.RES

Vial: 9

Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050621_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



Data File : J:\GC34\DATA\050621-HB\05060000012.D Vial: 10
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06-May-2021, 14:43:57 Operator: JTC
 Sample : PENTA02-29G 100 PPB ICV Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 06 15:53:18 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 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	5.590	5.230	92191894	48519119	89.950	87.280
3) m Dicamba	10.283	9.903	244.5E6	136.2E6	94.525	92.668
4) m MCPP	10.433	9.967	31176015	15270057	9415.434	8761.337
5) m MCPA	10.597	10.210	46548346	26315983	9348.885	9448.487
6) m Dichloroprop	11.023	10.580	56945476	33757271	80.227	80.923
7) m 2,4-D	11.270	10.900	53080226	33825157	79.438	83.566
8) m 2,4,5-TP ...	12.193	11.763	254.3E6	144.8E6	87.305	86.005
9) m 2,4,5-T	12.490	12.157	197.2E6	111.7E6	91.335	89.862
10) m 2,4-DB	13.057	12.677	20486396	11776928	93.165	89.060
11) m Dinoseb	14.290	13.037	170.7E6	99372582	87.823	86.781

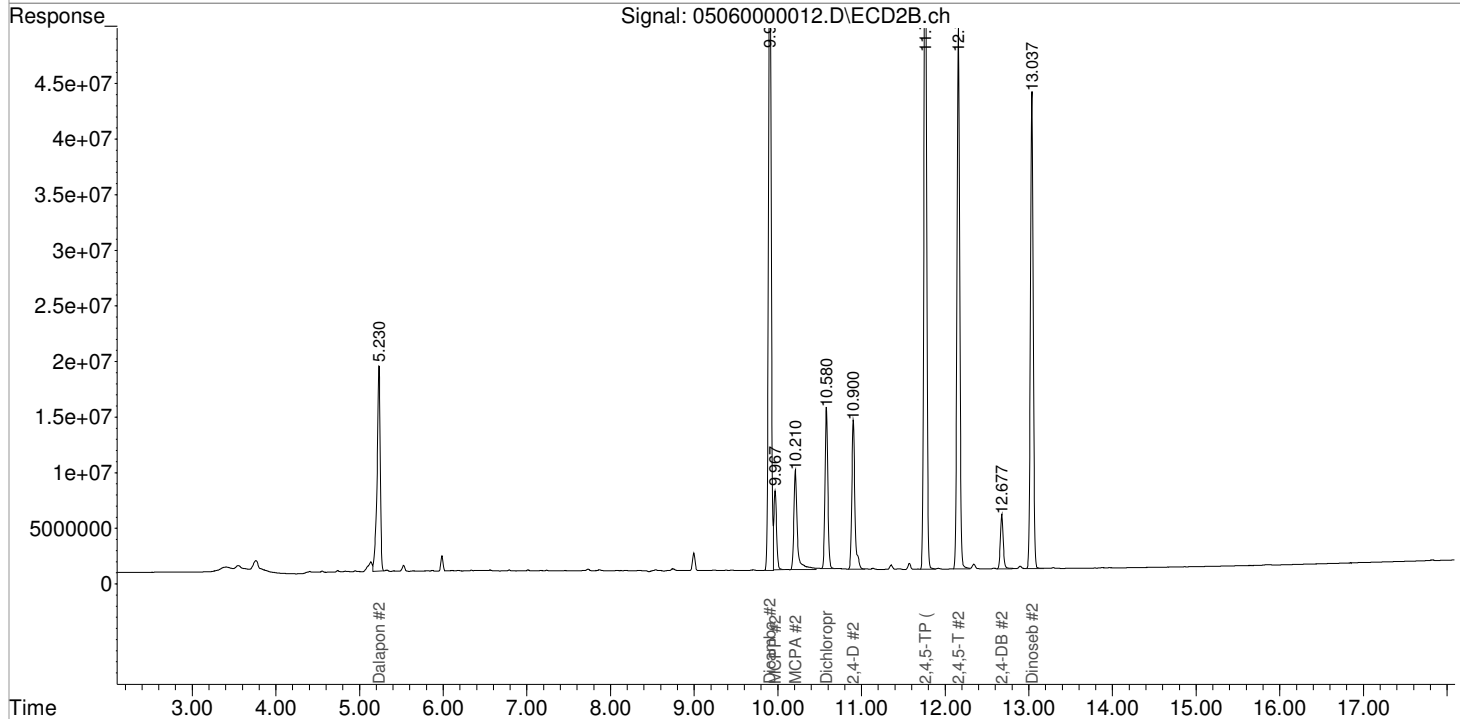
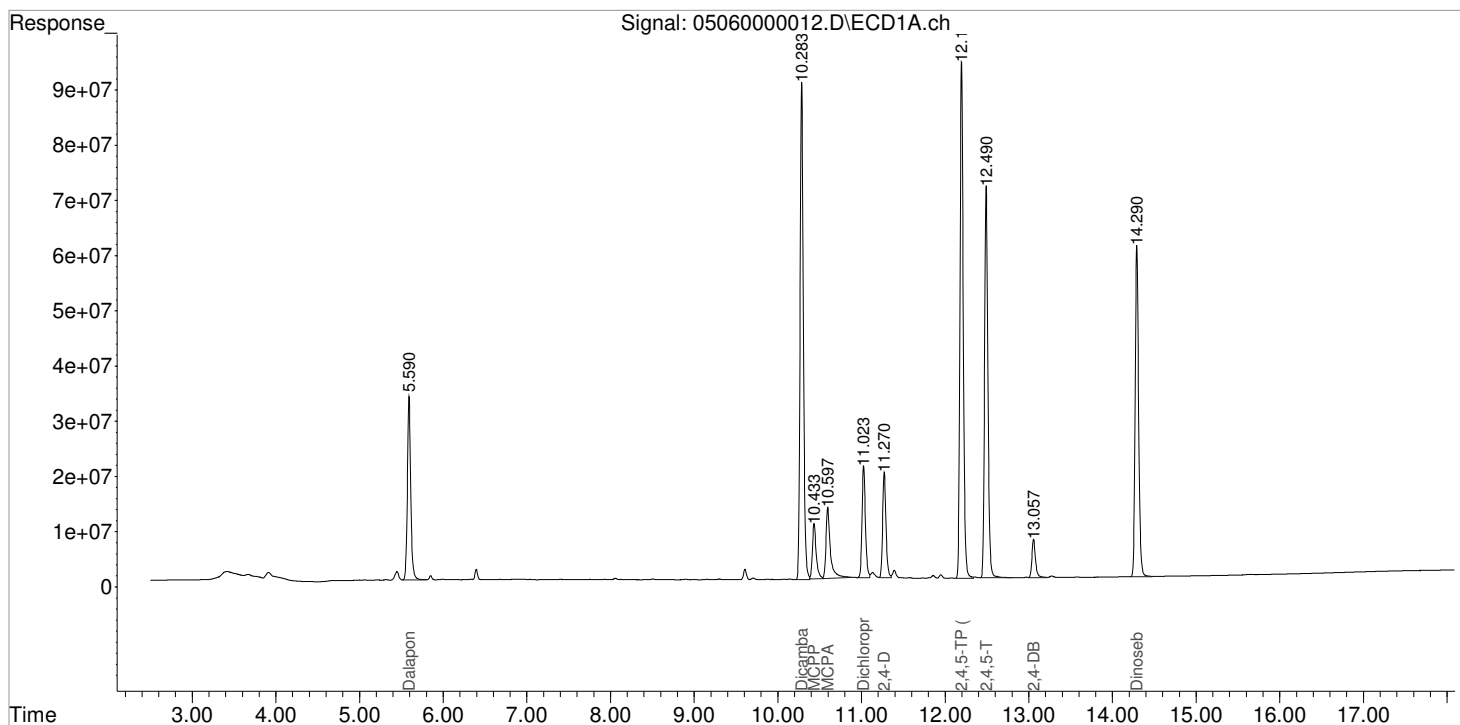
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\GC34\DATA\050621-HB\05060000012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 14:43:57
Sample : PENTA02-29G 100 PPB ICV
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 15:53:18 2021
Quant Results File: 050621_8151.RES

Vial: 10
Operator: JTC
Inst : GCI
Multiplr: 1.00

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 2021
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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



Data File : J:\GC34\DATA\050621-HB\05060000013.D Vial: 1
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06-May-2021, 15:08:05 Operator: JTC
 Sample : IB Inst : GCI
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: May 06 15:53:05 2021
 Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Thu May 06 15:52:39 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	5.647f	5.177f	270003	80120	0.263	0.144 #
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	10.567f	0.000	63918	0	N.D.	N.D.
6) m Dichloroprop	0.000	10.597	0	538153	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.

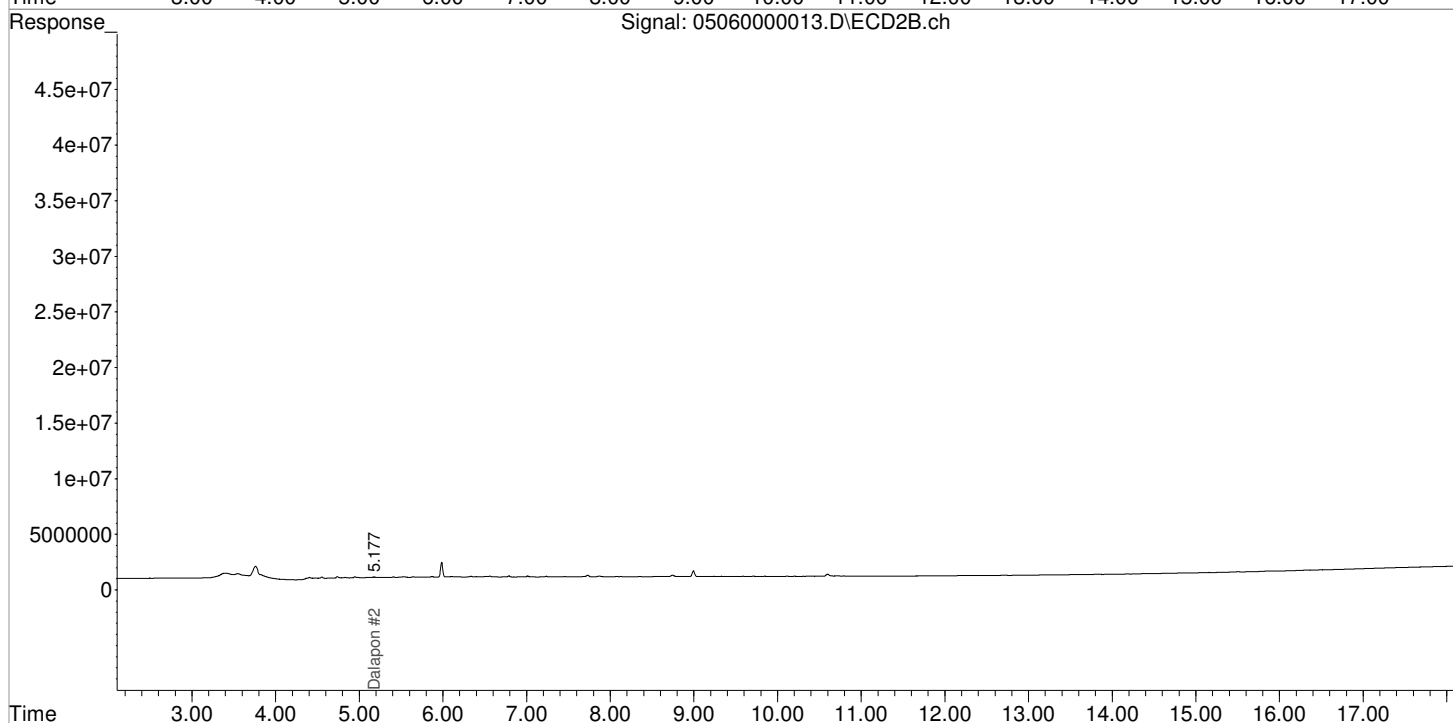
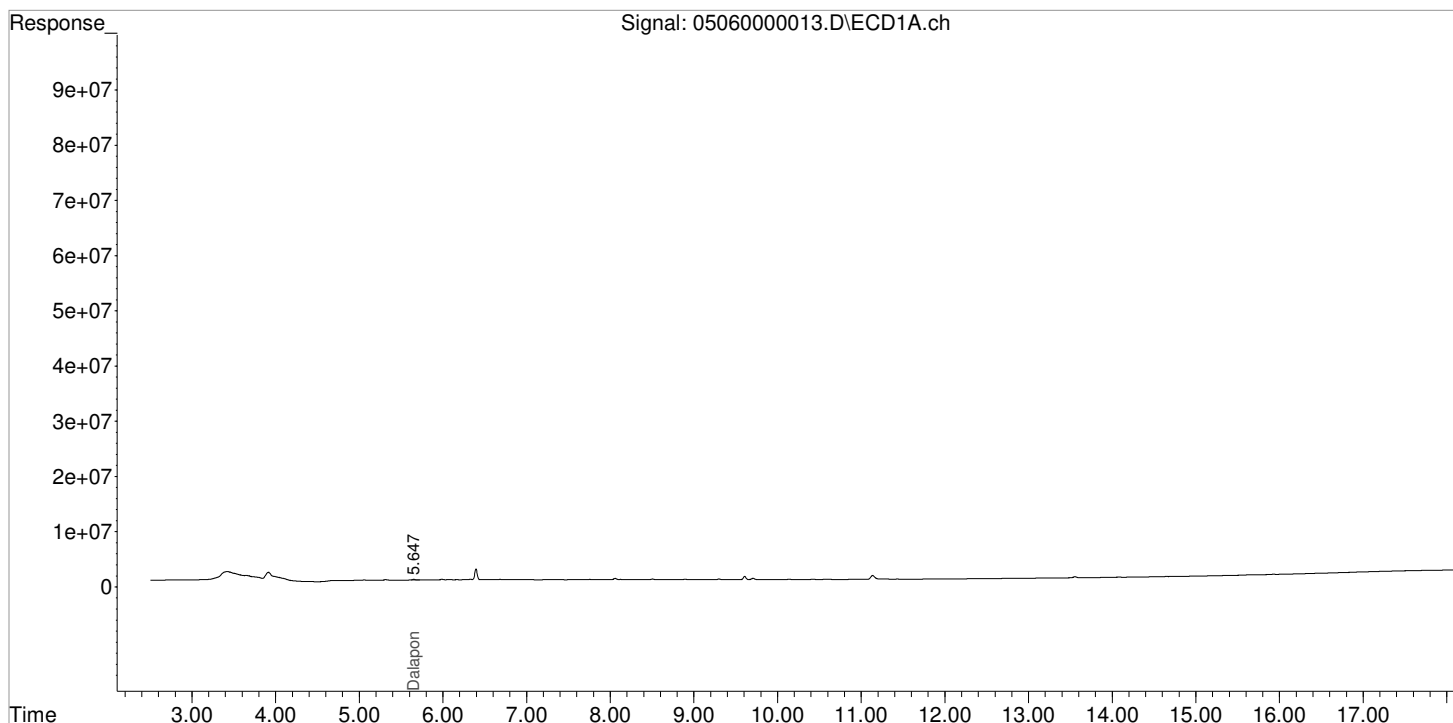
Data File : J:\GC34\DATA\050621-HB\05060000013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06-May-2021, 15:08:05
Sample : IB
Misc :

Vial: 1
Operator: JTC
Inst : GCI
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: May 06 15:53:05 2021
Quant Results File: 050621_8151.RES

Quant Method : J:\GC34\METHODS\050621_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Thu May 06 15:52:39 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



CAL 249
 Run # 725573

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	PENTA02-29F 100PPB C CV	8151A-17	1	Sample	
4	Vial 2	IB	8151A-17	1	Sample	
5	Vial 3	KQ2109374-03 LCS	8151A-17	1	Sample	
6	Vial 4	KQ2109374-04 MB	8151A-17	1	Sample	
7	Vial 5	K2104776-001	8151A-17	1	Sample	
8	Vial 6	K2104776-002	8151A-17	1	Sample	
9	Vial 7	K2104776-002 MS	8151A-17	1	Sample	
10	Vial 8	K2104776-002 DMS	8151A-17	1	Sample	
11	Vial 9	K2104776-003	8151A-17	1	Sample	
12	Vial 10	K2104776-004	8151A-17	1	Sample	
13	Vial 11	K2104776-005	8151A-17	1	Sample	
14	Vial 12	K2104776-006	8151A-17	1	Sample	
15	Vial 13	K2104776-007	8151A-17	1	Sample	
16	Vial 14	K2104776-008	8151A-17	1	Sample	
17	Vial 1	PENTA02-29F 100PPB C CV	8151A-17	1	Sample	
18	Vial 2	IB	8151A-17	1	Sample	
19	Vial 15	K2104776-009	8151A-17	1	Sample	
20	Vial 16	K2104776-010	8151A-17	1	Sample	
21	Vial 17	K2104776-011	8151A-17	1	Sample	
22	Vial 18	K2104776-012	8151A-17	1	Sample	
23	Vial 19	K2104776-013	8151A-17	1	Sample	
24	Vial 20	K2104776-014	8151A-17	1	Sample	

Sequence: C:\GC34\SEQUENCE\052821-HB.S

Line	Location	SampleName DataFile LimsID	Method	Inj	SampleType	InjVolume
25	Vial 21	K2104776-015	8151A-17	1	Sample	
26	Vial 22	K2104776-016	8151A-17	1	Sample	
27	Vial 1	PENTA02-29F 100PPB C CV	8151A-17	1	Sample	
28	Vial 2	IB	8151A-17	1	Sample	

Sequence Table (Back Injector):

No entries - empty table!