



ALS Environmental
ALS Group USA, Corp
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www.alsglobal.com

December 02, 2020

Analytical Report for Service Request No: K2010412

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 November 10, 2020
For your reference, these analyses have been assigned our service request number **K2010412**.

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

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

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mark Harris
Project Manager



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

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

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

Service Request: K2010412
Date Received: 11/10/2020

CASE NARRATIVE

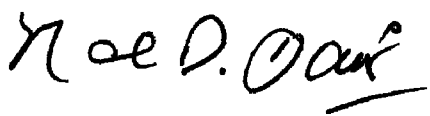
All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Nineteen sediment samples were received for analysis at ALS Environmental on 11/10/2020. 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, 11/29/2020: The upper control criterion was exceeded for 2,4,5-TP in Continuing Calibration Verification (CCV) KQ2018923-13. 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 12/02/2020



Chain of Custody

ALS Environmental—Kelso Laboratory
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ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

K2010412

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

COC ID: ALS-20201107-144831
Sample Custodian: CO
Lab: ALS Environmental, Kelso, V

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
020	USMPDI-056SC-B-04-06-201107	N	SE	11/07/2020	13:00	1	<input type="checkbox"/>	Total Solids (ALS)	SM2540G	30	4°C
021	USMPDI-056SC-B-06-08-201107	N	SE	11/07/2020	13:00	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
022	USMPDI-056SC-B-08-10-201107	N	SE	11/07/2020	13:00	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
023	USMPDI-056SC-B-10-12-201107	N	SE	11/07/2020	13:00	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
024	USMPDI-056SC-B-12-14-201107	N	SE	11/07/2020	13:00	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C

Comment:					
Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature	Signature	Signature	Signature	Signature	Signature
Print Name	Print Name	Print Name	Print Name	Print Name	Print Name
Company	Company	Company	Company	Company	Company
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time
<i>11/9/20 0745</i>	<i>11/10/20 1230</i>				

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

L2010412

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

COC ID: ALS-20201108-150157
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-013SC-B-00-02-201108	N	SE	11/08/2020	10:55	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
002	USMPDI-013SC-B-02-04-201108	N	SE	11/08/2020	10:55	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
003	USMPDI-013SC-B-04-06-201108	N	SE	11/08/2020	10:55	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
004	USMPDI-013SC-B-06-08-201108	N	SE	11/08/2020	10:55	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
005	USMPDI-013SC-B-08-10-201108	N	SE	11/08/2020	10:55	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
006	USMPDI-013SC-B-10-12-201108	N	SE	11/08/2020	10:55	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
007	USMPDI-013SC-B-12-14-201108	N	SE	11/08/2020	10:55	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
008	USMPDI-013SC-B-14-15-3-201108	N	SE	11/08/2020	10:55	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: Sashia Norwood	Print Name: <i>[Name]</i>	Print Name: <i>[Name]</i>	Print Name: <i>[Name]</i>	Print Name: <i>[Name]</i>	Print Name: <i>[Name]</i>
Company: Anchor OEA	Company: ALS	Company: <i>[Company]</i>	Company: <i>[Company]</i>	Company: <i>[Company]</i>	Company: <i>[Company]</i>
Date/Time: 4/9/20 0745	Date/Time: 11/10/20 1230	Date/Time: <i>[Date/Time]</i>	Date/Time: <i>[Date/Time]</i>	Date/Time: <i>[Date/Time]</i>	Date/Time: <i>[Date/Time]</i>

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

K2010412

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

COC ID: ALS-20201108-150157
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-013SC-B-14-15.3-201108	N	SE	11/08/2020	10:55	1	<input type="checkbox"/>	Herbicides Total Solids (ALS)	SW8151A SM2540G	30 30	4°C 4°C
009	USMPDI-018SC-B-00-02-201108	N	SE	11/08/2020	8:30	1	<input type="checkbox"/>	Herbicides Total Solids (ALS)	SW8151A SM2540G	30 30	4°C 4°C
010	USMPDI-018SC-B-02-04-201108	N	SE	11/08/2020	8:30	1	<input type="checkbox"/>	Herbicides Total Solids (ALS)	SW8151A SM2540G	30 30	4°C 4°C
011	USMPDI-018SC-B-04-06-201108	N	SE	11/08/2020	8:30	1	<input type="checkbox"/>	Herbicides Total Solids (ALS)	SW8151A SM2540G	30 30	4°C 4°C
012	USMPDI-018SC-B-06-08-201108	N	SE	11/08/2020	8:30	1	<input type="checkbox"/>	Herbicides Total Solids (ALS)	SW8151A SM2540G	30 30	4°C 4°C
013	USMPDI-018SC-B-08-10-201108	N	SE	11/08/2020	8:30	1	<input type="checkbox"/>	Herbicides Total Solids (ALS)	SW8151A SM2540G	30 30	4°C 4°C
014	USMPDI-018SC-B-10-12-201108	N	SE	11/08/2020	8:30	1	<input type="checkbox"/>	Herbicides Total Solids (ALS)	SW8151A SM2540G	30 30	4°C 4°C
015	USMPDI-018SC-B-12-14-201108	N	SE	11/08/2020	8:30	2	<input checked="" type="checkbox"/>	Herbicides Total Solids (ALS)	SW8151A SM2540G	30 30	4°C 4°C

Comment:

Relinquished By Signature <i>[Signature]</i>	Received By Signature <i>[Signature]</i>	Relinquished By Signature <i>[Signature]</i>	Received By Signature <i>[Signature]</i>	Relinquished By Signature <i>[Signature]</i>	Received By Signature <i>[Signature]</i>
Print Name <i>Jessie Horwood</i>	Print Name <i>KM [Signature]</i>	Print Name	Print Name	Print Name	Print Name
Company <i>Anchor QEA</i>	Company <i>ALS</i>	Company	Company	Company	Company
Date/Time <i>11/9/20 0743</i>	Date/Time <i>11/10/20 0730</i>	Date/Time	Date/Time	Date/Time	Date/Time

PM MH

Cooler Receipt and Preservation Form

Client Anchovy Service Request K20 10412
 Received: 11/10/20 Opened: 11/10/20 By: [Signature] Unloaded: 11/10/20 By: [Signature]

- Samples were received via? USPS Fed Ex UPS DHL PDX Courier Hand Delivered
 - Samples were received in: (circle) Cooler Box Envelope Other NA
 - Were custody seals on coolers? NA Y N If yes, how many and where? 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
5.6		<u>IR2</u>					
4.8							
3.8							
5.3							

- Packing material: Inserts Baggies Bubble Wrap Get 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

ALS Environmental—Kelso Laboratory
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www.alsglobal.com

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: K2010412
Date Collected: 11/07/20 - 11/08/20
Date Received: 11/10/20
Units: Percent
Basis: As Received

Solids, Total

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Q
USMPDI-056SC-B-06-08-201107	K2010412-001	77.5	-	-	1	12/01/20 16:40	
USMPDI-056SC-B-08-10-201107	K2010412-002	83.0	-	-	1	12/01/20 16:40	
USMPDI-056SC-B-10-12-201107	K2010412-003	76.6	-	-	1	12/01/20 16:40	
USMPDI-056SC-B-12-14-201107	K2010412-004	80.2	-	-	1	12/01/20 16:40	
USMPDI-013SC-B-00-02-201108	K2010412-005	53.5	-	-	1	12/01/20 16:40	
USMPDI-013SC-B-02-04-201108	K2010412-006	75.0	-	-	1	12/01/20 16:40	
USMPDI-013SC-B-04-06-201108	K2010412-007	75.3	-	-	1	12/01/20 16:40	
USMPDI-013SC-B-06-08-201108	K2010412-008	77.2	-	-	1	12/01/20 16:40	
USMPDI-013SC-B-08-10-201108	K2010412-009	85.3	-	-	1	12/01/20 16:40	
USMPDI-013SC-B-10-12-201108	K2010412-010	75.8	-	-	1	12/01/20 16:40	
USMPDI-013SC-B-12-14-201108	K2010412-011	74.5	-	-	1	12/01/20 16:40	
USMPDI-013SC-B-14-15.3-201108	K2010412-012	71.9	-	-	1	12/01/20 16:40	
USMPDI-018SC-B-00-02-201108	K2010412-013	52.7	-	-	1	12/01/20 16:40	
USMPDI-018SC-B-02-04-201108	K2010412-014	58.4	-	-	1	12/01/20 16:40	
USMPDI-018SC-B-04-06-201108	K2010412-015	55.9	-	-	1	12/01/20 16:40	
USMPDI-018SC-B-06-08-201108	K2010412-016	61.3	-	-	1	12/01/20 16:40	
USMPDI-018SC-B-08-10-201108	K2010412-017	87.1	-	-	1	12/01/20 16:40	
USMPDI-018SC-B-10-12-201108	K2010412-018	78.7	-	-	1	12/01/20 16:40	
USMPDI-018SC-B-12-14-201108	K2010412-019	87.8	-	-	1	12/01/20 16:40	
Method Blank	K2010412-MB	ND U	-	-	1	12/01/20 16:40	

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: K2010412
Date Collected: 11/07/20 - 11/08/20
Date Received: 11/10/20

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-056SC-B-08-10-201107	K2010412-002DUP	-	-	83.0	81.4	82.2	2	20	12/01/20
USMPDI-018SC-B-12-14-201108	K2010412-019DUP	-	-	87.8	87.5	87.7	<1	20	12/01/20

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

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

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



Chlorinated Herbicides by GC

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www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2010412
Date Collected: 11/07/20 13:00
Date Received: 11/10/20 12:30

Sample Name: USMPDI-056SC-B-06-08-201107
Lab Code: K2010412-001

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	65	3.1	1	11/29/20 02:19	11/11/20	
2,4-D	ND U	65	10	1	11/29/20 02:19	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	66	26 - 127	11/29/20 02:19	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2010412
Date Collected: 11/07/20 13:00
Date Received: 11/10/20 12:30

Sample Name: USMPDI-056SC-B-08-10-201107
Lab Code: K2010412-002

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	60	2.9	1	11/29/20 02:42	11/11/20	
2,4-D	ND U	60	9.3	1	11/29/20 02:42	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	67	26 - 127	11/29/20 02:42	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2010412
Date Collected: 11/07/20 13:00
Date Received: 11/10/20 12:30

Sample Name: USMPDI-056SC-B-10-12-201107
Lab Code: K2010412-003

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	65	3.2	1	11/29/20 03:05	11/11/20	
2,4-D	ND U	65	10	1	11/29/20 03:05	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	66	26 - 127	11/29/20 03:05	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2010412
Date Collected: 11/07/20 13:00
Date Received: 11/10/20 12:30

Sample Name: USMPDI-056SC-B-12-14-201107
Lab Code: K2010412-004

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	62	3.0	1	11/29/20 03:28	11/11/20	
2,4-D	ND U	62	9.6	1	11/29/20 03:28	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	68	26 - 127	11/29/20 03:28	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2010412
Date Collected: 11/08/20 10:55
Date Received: 11/10/20 12:30

Sample Name: USMPDI-013SC-B-00-02-201108
Lab Code: K2010412-005

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	92	4.5	1	11/29/20 03:51	11/11/20	
2,4-D	ND U	92	15	1	11/29/20 03:51	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	75	26 - 127	11/29/20 03:51	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2010412
Date Collected: 11/08/20 10:55
Date Received: 11/10/20 12:30

Sample Name: USMPDI-013SC-B-02-04-201108
Lab Code: K2010412-006

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	66	3.2	1	11/29/20 04:14	11/11/20	
2,4-D	ND U	66	11	1	11/29/20 04:14	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	64	26 - 127	11/29/20 04:14	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2010412
Date Collected: 11/08/20 10:55
Date Received: 11/10/20 12:30

Sample Name: USMPDI-013SC-B-04-06-201108
Lab Code: K2010412-007

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	66	3.2	1	11/29/20 05:22	11/11/20	
2,4-D	ND U	66	11	1	11/29/20 05:22	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	58	26 - 127	11/29/20 05:22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2010412
Date Collected: 11/08/20 10:55
Date Received: 11/10/20 12:30

Sample Name: USMPDI-013SC-B-06-08-201108
Lab Code: K2010412-008

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	65	3.1	1	11/29/20 05:45	11/11/20	
2,4-D	ND U	65	10	1	11/29/20 05:45	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	69	26 - 127	11/29/20 05:45	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2010412
Date Collected: 11/08/20 10:55
Date Received: 11/10/20 12:30

Sample Name: USMPDI-013SC-B-08-10-201108
Lab Code: K2010412-009

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	58	2.8	1	11/29/20 06:08	11/11/20	
2,4-D	ND U	58	9.0	1	11/29/20 06:08	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	66	26 - 127	11/29/20 06:08	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2010412
Date Collected: 11/08/20 10:55
Date Received: 11/10/20 12:30

Sample Name: USMPDI-013SC-B-10-12-201108
Lab Code: K2010412-010

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	66	3.2	1	11/29/20 06:31	11/11/20	
2,4-D	ND U	66	11	1	11/29/20 06:31	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	83	26 - 127	11/29/20 06:31	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2010412
Date Collected: 11/08/20 10:55
Date Received: 11/10/20 12:30

Sample Name: USMPDI-013SC-B-12-14-201108
Lab Code: K2010412-011

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	66	3.2	1	11/29/20 06:54	11/11/20	
2,4-D	ND U	66	11	1	11/29/20 06:54	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	79	26 - 127	11/29/20 06:54	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2010412
Date Collected: 11/08/20 10:55
Date Received: 11/10/20 12:30

Sample Name: USMPDI-013SC-B-14-15.3-201108
Lab Code: K2010412-012

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	69	3.3	1	11/29/20 07:17	11/11/20	
2,4-D	ND U	69	11	1	11/29/20 07:17	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	81	26 - 127	11/29/20 07:17	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2010412
Date Collected: 11/08/20 08:30
Date Received: 11/10/20 12:30

Sample Name: USMPDI-018SC-B-00-02-201108
Lab Code: K2010412-013

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	95	4.6	1	11/29/20 07:40	11/11/20	
2,4-D	ND U	95	15	1	11/29/20 07:40	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	75	26 - 127	11/29/20 07:40	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2010412
Date Collected: 11/08/20 08:30
Date Received: 11/10/20 12:30

Sample Name: USMPDI-018SC-B-02-04-201108
Lab Code: K2010412-014

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	85	4.1	1	11/29/20 08:03	11/11/20	
2,4-D	ND U	85	14	1	11/29/20 08:03	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	68	26 - 127	11/29/20 08:03	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2010412
Date Collected: 11/08/20 08:30
Date Received: 11/10/20 12:30

Sample Name: USMPDI-018SC-B-04-06-201108
Lab Code: K2010412-015

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 U	89	4.3	1	11/29/20 08:25	11/11/20	
2,4-D	ND U	89	14	1	11/29/20 08:25	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	85	26 - 127	11/29/20 08:25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2010412
Date Collected: 11/08/20 08:30
Date Received: 11/10/20 12:30

Sample Name: USMPDI-018SC-B-06-08-201108
Lab Code: K2010412-016

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	81	3.9	1	11/29/20 08:48	11/11/20	
2,4-D	ND U	81	13	1	11/29/20 08:48	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	69	26 - 127	11/29/20 08:48	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2010412
Date Collected: 11/08/20 08:30
Date Received: 11/10/20 12:30

Sample Name: USMPDI-018SC-B-08-10-201108
Lab Code: K2010412-017

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	57	2.8	1	11/29/20 09:57	11/11/20	
2,4-D	ND U	57	8.8	1	11/29/20 09:57	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	67	26 - 127	11/29/20 09:57	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2010412
Date Collected: 11/08/20 08:30
Date Received: 11/10/20 12:30

Sample Name: USMPDI-018SC-B-10-12-201108
Lab Code: K2010412-018

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	63	3.1	1	11/29/20 10:20	11/11/20	*
2,4-D	ND U	63	9.8	1	11/29/20 10:20	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	68	26 - 127	11/29/20 10:20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2010412
Date Collected: 11/08/20 08:30
Date Received: 11/10/20 12:30

Sample Name: USMPDI-018SC-B-12-14-201108
Lab Code: K2010412-019

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	57	2.8	1	11/29/20 10:43	11/11/20	
2,4-D	ND U	57	8.8	1	11/29/20 10:43	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	63	26 - 127	11/29/20 10:43	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: K2010412
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: KQ2017767-04

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	11/29/20 01:34	11/11/20	
2,4-D	ND U	49	7.7	1	11/29/20 01:34	11/11/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	67	26 - 127	11/29/20 01:34	

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dba ALS Environmental

Confirmation Results

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
SRM Matrix: Sediment
Sample Name: USMPDI-018SC-B-12-14-201108
Lab Code: KQ2017767-01

Service Request: K2010412
Date Collected: 11/08/20 08:30
Date Received: 11/10/20

Units: ug/Kg
Basis: Dry
Percent Solids: 87.8

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	2.8	111	140	23		1	11/29/20 11:05
2,4-D	8.8	104	130	22		1	11/29/20 11:05

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
SRM Matrix: Sediment
Sample Name: USMPDI-018SC-B-12-14-201108
Lab Code: KQ2017767-02

Service Request: K2010412
Date Collected: 11/08/20 08:30
Date Received: 11/10/20

Units: ug/Kg
Basis: Dry
Percent Solids: 87.8

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	2.8	120	154	25		1	11/29/20 11:28
2,4-D	8.8	113	141	22		1	11/29/20 11:28

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Confirmation Results

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
SRM Matrix: Sediment
Sample Name: Lab Control Sample
Lab Code: KQ2017767-03

Service Request: K2010412
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	97.1	122	23		1	11/29/20 01:56
2,4-D	7.7	92.0	115	22		1	11/29/20 01:56

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

Service Request: K2010412

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A
Extraction Method: Method

Sample Name	Lab Code	DCAA 26-127
USMPDI-056SC-B-06-08-201107	K2010412-001	66
USMPDI-056SC-B-08-10-201107	K2010412-002	67
USMPDI-056SC-B-10-12-201107	K2010412-003	66
USMPDI-056SC-B-12-14-201107	K2010412-004	68
USMPDI-013SC-B-00-02-201108	K2010412-005	75
USMPDI-013SC-B-02-04-201108	K2010412-006	64
USMPDI-013SC-B-04-06-201108	K2010412-007	58
USMPDI-013SC-B-06-08-201108	K2010412-008	69
USMPDI-013SC-B-08-10-201108	K2010412-009	66
USMPDI-013SC-B-10-12-201108	K2010412-010	83
USMPDI-013SC-B-12-14-201108	K2010412-011	79
USMPDI-013SC-B-14-15.3-201108	K2010412-012	81
USMPDI-018SC-B-00-02-201108	K2010412-013	75
USMPDI-018SC-B-02-04-201108	K2010412-014	68
USMPDI-018SC-B-04-06-201108	K2010412-015	85
USMPDI-018SC-B-06-08-201108	K2010412-016	69
USMPDI-018SC-B-08-10-201108	K2010412-017	67
USMPDI-018SC-B-10-12-201108	K2010412-018	68
USMPDI-018SC-B-12-14-201108	K2010412-019	63
Method Blank	KQ2017767-04	67
Lab Control Sample	KQ2017767-03	65
USMPDI-018SC-B-12-14-201108	KQ2017767-01	69
USMPDI-018SC-B-12-14-201108	KQ2017767-02	73

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: K2010412
Date Collected: 11/08/20
Date Received: 11/10/20
Date Analyzed: 11/29/20
Date Extracted: 11/11/20

Duplicate Matrix Spike Summary
Chlorinated Herbicides by GC

Sample Name: USMPDI-018SC-B-12-14-201108
Lab Code: K2010412-019
Analysis Method: 8151A
Prep Method: Method

Units: ug/Kg
Basis: Dry

Analyte Name	Sample Result	Result	Matrix Spike KQ2017767-01		Duplicate Matrix Spike KQ2017767-02		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
2,4,5-TP	ND U	111	189	59	120	189	63	34-129	7	40
2,4-D	ND U	104	189	55	113	189	60	35-129	8	40

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

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

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

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

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: K2010412
Date Analyzed: 11/29/20
Date Extracted: 11/11/20

Lab Control Sample Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Units: ug/Kg
Basis: Dry
Analysis Lot: 705101

Lab Control Sample
KQ2017767-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
2,4,5-TP	97.1	167	58	46-125
2,4-D	92.0	167	55	46-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: K2010412
Date Analyzed: 11/29/20 01:34
Date Extracted: 11/11/20

Method Blank Summary
Chlorinated Herbicides by GC

Sample Name: Method Blank **Instrument ID:**K-GC-24
Lab Code: KQ2017767-04 **File ID:**J:\gc24\data\112820\11280041.D\
Analysis Method: 8151A **Analysis Lot:**705101
Prep Method: Method **Extraction Lot:**369613

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	KQ2017767-03	J:\gc24\data\112820\11280042.D\ J:\gc24\data\112820\11280043.D\ J:\gc24\data\112820\11280044.D\ J:\gc24\data\112820\11280045.D\ J:\gc24\data\112820\11280046.D\ J:\gc24\data\112820\11280047.D\ J:\gc24\data\112820\11280048.D\ J:\gc24\data\112820\11280051.D\ J:\gc24\data\112820\11280052.D\ J:\gc24\data\112820\11280053.D\ J:\gc24\data\112820\11280054.D\ J:\gc24\data\112820\11280055.D\ J:\gc24\data\112820\11280056.D\ J:\gc24\data\112820\11280057.D\ J:\gc24\data\112820\11280058.D\ J:\gc24\data\112820\11280059.D\ J:\gc24\data\112820\11280060.D\ J:\gc24\data\112820\11280063.D\ J:\gc24\data\112820\11280064.D\ J:\gc24\data\112820\11280065.D\ J:\gc24\data\112820\11280066.D\ J:\gc24\data\112820\11280067.D\ 11/29/20 01:56	11/29/20 01:56
USMPDI-056SC-B-06-08-201107	K2010412-001	J:\gc24\data\112820\11280043.D\ J:\gc24\data\112820\11280044.D\ J:\gc24\data\112820\11280045.D\ J:\gc24\data\112820\11280046.D	11/29/20 02:19
USMPDI-056SC-B-08-10-201107	K2010412-002	J:\gc24\data\112820\11280044.D	11/29/20 02:42
USMPDI-056SC-B-10-12-201107	K2010412-003	J:\gc24\data\112820\11280045.D	11/29/20 03:05
USMPDI-056SC-B-12-14-201107	K2010412-004	J:\gc24\data\112820\11280046.D	11/29/20 03:28
USMPDI-013SC-B-00-02-201108	K2010412-005	J:\gc24\data\112820\11280047.D	11/29/20 03:51
USMPDI-013SC-B-02-04-201108	K2010412-006	J:\gc24\data\112820\11280048.D	11/29/20 04:14
USMPDI-013SC-B-04-06-201108	K2010412-007	J:\gc24\data\112820\11280051.D	11/29/20 05:22
USMPDI-013SC-B-06-08-201108	K2010412-008	J:\gc24\data\112820\11280052.D	11/29/20 05:45
USMPDI-013SC-B-08-10-201108	K2010412-009	J:\gc24\data\112820\11280053.D	11/29/20 06:08
USMPDI-013SC-B-10-12-201108	K2010412-010	J:\gc24\data\112820\11280054.D	11/29/20 06:31
USMPDI-013SC-B-12-14-201108	K2010412-011	J:\gc24\data\112820\11280055.D	11/29/20 06:54
USMPDI-013SC-B-14-15.3-201108	K2010412-012	J:\gc24\data\112820\11280056.D	11/29/20 07:17
USMPDI-018SC-B-00-02-201108	K2010412-013	J:\gc24\data\112820\11280057.D	11/29/20 07:40
USMPDI-018SC-B-02-04-201108	K2010412-014	J:\gc24\data\112820\11280058.D	11/29/20 08:03
USMPDI-018SC-B-04-06-201108	K2010412-015	J:\gc24\data\112820\11280059.D	11/29/20 08:25
USMPDI-018SC-B-06-08-201108	K2010412-016	J:\gc24\data\112820\11280060.D	11/29/20 08:48
USMPDI-018SC-B-08-10-201108	K2010412-017	J:\gc24\data\112820\11280063.D	11/29/20 09:57
USMPDI-018SC-B-10-12-201108	K2010412-018	J:\gc24\data\112820\11280064.D	11/29/20 10:20
USMPDI-018SC-B-12-14-201108	K2010412-019	J:\gc24\data\112820\11280065.D	11/29/20 10:43
USMPDI-018SC-B-12-14-201108MS	KQ2017767-01	J:\gc24\data\112820\11280066.D	11/29/20 11:05
USMPDI-018SC-B-12-14-201108DMS	KQ2017767-02	J:\gc24\data\112820\11280067.D	11/29/20 11:28

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

Service Request: K2010412
Date Analyzed: 11/29/20 01:56
Date Extracted: 11/11/20

Lab Control Sample Summary
Chlorinated Herbicides by GC

Sample Name: Lab Control Sample

Instrument ID: K-GC-24

Lab Code: KQ2017767-03

File ID: J:\gc24\data\112820\11280042.D\

Analysis Method: 8151A

Analysis Lot: 705101

Prep Method: Method

Extraction Lot: 369613

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ2017767-04	J:\gc24\data\112820\11280041.D\	11/29/20 01:34
USMPDI-056SC-B-06-08-201107	K2010412-001	J:\gc24\data\112820\11280043.D\	11/29/20 02:19
USMPDI-056SC-B-08-10-201107	K2010412-002	J:\gc24\data\112820\11280044.D\	11/29/20 02:42
USMPDI-056SC-B-10-12-201107	K2010412-003	J:\gc24\data\112820\11280045.D\	11/29/20 03:05
USMPDI-056SC-B-12-14-201107	K2010412-004	J:\gc24\data\112820\11280046.D\	11/29/20 03:28
USMPDI-013SC-B-00-02-201108	K2010412-005	J:\gc24\data\112820\11280047.D\	11/29/20 03:51
USMPDI-013SC-B-02-04-201108	K2010412-006	J:\gc24\data\112820\11280048.D\	11/29/20 04:14
USMPDI-013SC-B-04-06-201108	K2010412-007	J:\gc24\data\112820\11280051.D\	11/29/20 05:22
USMPDI-013SC-B-06-08-201108	K2010412-008	J:\gc24\data\112820\11280052.D\	11/29/20 05:45
USMPDI-013SC-B-08-10-201108	K2010412-009	J:\gc24\data\112820\11280053.D\	11/29/20 06:08
USMPDI-013SC-B-10-12-201108	K2010412-010	J:\gc24\data\112820\11280054.D\	11/29/20 06:31
USMPDI-013SC-B-12-14-201108	K2010412-011	J:\gc24\data\112820\11280055.D\	11/29/20 06:54
USMPDI-013SC-B-14-15.3-201108	K2010412-012	J:\gc24\data\112820\11280056.D\	11/29/20 07:17
USMPDI-018SC-B-00-02-201108	K2010412-013	J:\gc24\data\112820\11280057.D\	11/29/20 07:40
USMPDI-018SC-B-02-04-201108	K2010412-014	J:\gc24\data\112820\11280058.D\	11/29/20 08:03
USMPDI-018SC-B-04-06-201108	K2010412-015	J:\gc24\data\112820\11280059.D\	11/29/20 08:25
USMPDI-018SC-B-06-08-201108	K2010412-016	J:\gc24\data\112820\11280060.D\	11/29/20 08:48
USMPDI-018SC-B-08-10-201108	K2010412-017	J:\gc24\data\112820\11280063.D\	11/29/20 09:57
USMPDI-018SC-B-10-12-201108	K2010412-018	J:\gc24\data\112820\11280064.D\	11/29/20 10:20
USMPDI-018SC-B-12-14-201108	K2010412-019	J:\gc24\data\112820\11280065.D\	11/29/20 10:43
USMPDI-018SC-B-12-14-201108MS	KQ2017767-01	J:\gc24\data\112820\11280066.D\	11/29/20 11:05
USMPDI-018SC-B-12-14-201108DMS	KQ2017767-02	J:\gc24\data\112820\11280067.D\	11/29/20 11:28

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QA/QC Report

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

Service Request: K2010412
Calibration Date: 10/21/2020

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2000566
Instrument ID: K-GC-24

Signal ID: RTX-CLP2

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC2000566-01	PENTA2-14K 10PPB	J:\gc24\data\102120\10210004.D	10/21/2020 13:46
02	KC2000566-02	PENTA2-14L 25PPB	J:\gc24\data\102120\10210005.D	10/21/2020 14:09
03	KC2000566-03	PENTA2-14M 75PPB	J:\gc24\data\102120\10210006.D	10/21/2020 14:33
04	KC2000566-04	PENTA2-14N 100PB	J:\gc24\data\102120\10210007.D	10/21/2020 14:57
05	KC2000566-05	PENTA2-15A 125PB	J:\gc24\data\102120\10210008.D	10/21/2020 15:21
06	KC2000566-06	PENTA2-15B 150PB	J:\gc24\data\102120\10210009.D	10/21/2020 15:44
07	KC2000566-07	PENTA2-15C 175PB	J:\gc24\data\102120\10210010.D	10/21/2020 16:08
08	KC2000566-08	PENTA2-15D 200PB	J:\gc24\data\102120\10210011.D	10/21/2020 16:32

Analyte

2,4,5-TP

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.510	9.752E4	02	23.760	9.79E4	03	71.300	9.082E4	04	95.100	9.31E4
05	118.820	9.221E4	06	142.580	9.36E4	07	166.340	9.245E4	08	190.100	9.185E4

2,4-D

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	2.488E4	02	23.510	2.377E4	03	70.500	2.075E4	04	94.000	2.056E4
05	117.540	2.029E4	06	141.050	2.025E4	07	164.560	1.991E4	08	188.060	1.951E4

DCAA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.020	2.115E4	02	22.550	2.015E4	03	67.600	1.798E4	04	90.200	1.794E4
05	112.730	1.738E4	06	135.280	1.732E4	07	157.830	1.694E4	08	180.370	1.67E4

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

Service Request: K2010412
Calibration Date: 10/21/2020

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2000566
Instrument ID: K-GC-24

Signal ID: RTX-CLP2

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	2.8	20	9.368E4	
2,4-D	TRG	Average RF	% RSD	9.3	20	2.124E4	
DCAA	SURR	Average RF	% RSD	8.8	20	1.82E4	

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QA/QC Report

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

Service Request: K2010412
Calibration Date: 10/21/2020

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2000566
Instrument ID: K-GC-24

Signal ID: ZB-XLB-HT

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC2000566-01	PENTA2-14K 10PPB	J:\gc24\data\102120\10210004.D	10/21/2020 13:46
02	KC2000566-02	PENTA2-14L 25PPB	J:\gc24\data\102120\10210005.D	10/21/2020 14:09
03	KC2000566-03	PENTA2-14M 75PPB	J:\gc24\data\102120\10210006.D	10/21/2020 14:33
04	KC2000566-04	PENTA2-14N 100PB	J:\gc24\data\102120\10210007.D	10/21/2020 14:57
05	KC2000566-05	PENTA2-15A 125PB	J:\gc24\data\102120\10210008.D	10/21/2020 15:21
06	KC2000566-06	PENTA2-15B 150PB	J:\gc24\data\102120\10210009.D	10/21/2020 15:44
07	KC2000566-07	PENTA2-15C 175PB	J:\gc24\data\102120\10210010.D	10/21/2020 16:08
08	KC2000566-08	PENTA2-15D 200PB	J:\gc24\data\102120\10210011.D	10/21/2020 16:32

Analyte

2,4,5-TP

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.510	2.358E5	02	23.760	2.178E5	03	71.300	1.953E5	04	95.100	1.956E5
05	118.820	1.949E5	06	142.580	1.947E5	07	166.340	1.946E5	08	190.100	1.952E5

2,4-D

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	6.995E4	02	23.510	5.929E4	03	70.500	4.845E4	04	94.000	4.767E4
05	117.540	4.681E4	06	141.050	4.616E4	07	164.560	4.575E4	08	188.060	4.551E4

DCAA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.020	5.587E4	02	22.550	4.943E4	03	67.600	4.041E4	04	90.200	3.953E4
05	112.730	3.892E4	06	135.280	3.822E4	07	157.830	3.814E4	08	180.370	3.787E4

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

Service Request: K2010412
Calibration Date: 10/21/2020

**Initial Calibration Summary
Chlorinated Herbicides by GC**

Calibration ID: KC2000566
Instrument ID: K-GC-24

Signal ID: ZB-XLB-HT

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	7.6	20	2.03E5	
2,4-D	TRG	Average RF	% RSD	17.2	20	5.12E4	
DCAA	SURR	Average RF	% RSD	15.8	20	4.23E4	

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

Service Request: K2010412
Calibration Date: 10/21/2020

Initial Calibration Verification Summary
Chlorinated Herbicides by GC

Calibration ID: KC2000566
Instrument ID: K-GC-24

Signal ID: RTX-CLP2

#	Lab Code	Sample Name	File Location	Acquisition Date
09	KC2000566-09	PENTA2-15E ICV 100 PPB	J:\gc24\data\102120\10210012.D	10/21/2020 16:56

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
2,4,5-TP	95.1	93.4	9.368E4	9.198E4	-1.819	±20	Average RF
2,4-D	94.0	90.4	2.124E4	2.043E4	-3.805	±20	Average RF

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

Service Request: K2010412
Calibration Date: 10/21/2020

Initial Calibration Verification Summary
Chlorinated Herbicides by GC

Calibration ID: KC2000566
Instrument ID: K-GC-24

Signal ID: ZB-XLB-HT

#	Lab Code	Sample Name	File Location	Acquisition Date
09	KC2000566-09	PENTA2-15E ICV 100 PPB	J:\gc24\data\102120\10210012.D	10/21/2020 16:56

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
2,4,5-TP	95.1	92.5	2.03E5	1.974E5	-2.734	±20	Average RF
2,4-D	94.0	83.6	5.12E4	4.556E4	-11.018	±20	Average RF

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

Service Request: K2010412
Date Analyzed: 11/28/20 19:51

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\gc24\data\112820\11280026.D\
Signal ID: RTX-CLP2

Calibration Date: 10/21/2020
Calibration ID: KC2000566
Analysis Lot: 705101
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	93.0	9.368E4	9.162E4	-2.2	NA	±20	Average RF
2,4-D	94.0	87.9	2.124E4	1.987E4	-6.5	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	96.3	1.82E4	1.753E4	-3.7	NA	±20	Average RF

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

Service Request: K2010412
Date Analyzed: 11/28/20 19:51

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\gc24\data\112820\11280026.D\
Signal ID: ZB-XLB-HT

Calibration Date: 10/21/2020
Calibration ID: KC2000566
Analysis Lot: 705101
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	110	2.03E5	2.358E5	16.1	NA	±20	Average RF
2,4-D	94.0	101	5.12E4	5.475E4	6.9	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	107	4.23E4	4.531E4	7.1	NA	±20	Average RF

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QA/QC Report

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

Service Request: K2010412
Date Analyzed: 11/29/20 00:02

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\gc24\data\112820\11280037.D\
Signal ID: RTX-CLP2

Calibration Date: 10/21/2020
Calibration ID: KC2000566
Analysis Lot: 705101
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	92.9	9.368E4	9.151E4	-2.3	NA	±20	Average RF
2,4-D	94.0	86.8	2.124E4	1.961E4	-7.7	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	95.8	1.82E4	1.743E4	-4.2	NA	±20	Average RF

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

Service Request: K2010412
Date Analyzed: 11/29/20 00:02

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

Analysis Method: 8151A
File ID: J:\gc24\data\112820\11280037.D\
Signal ID: ZB-XLB-HT

Calibration Date: 10/21/2020
Calibration ID: KC2000566
Analysis Lot: 705101
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	114	2.03E5	2.432E5	19.8	NA	±20	Average RF
2,4-D	94.0	104	5.12E4	5.641E4	10.2	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	111	4.23E4	4.711E4	11.4	NA	±20	Average RF

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

Service Request: K2010412
Date Analyzed: 11/29/20 04:37

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

Analysis Method: 8151A
File ID: J:\gc24\data\112820\11280049.D\
Signal ID: RTX-CLP2

Calibration Date: 10/21/2020
Calibration ID: KC2000566
Analysis Lot: 705101
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	93.2	9.368E4	9.177E4	-2.0	NA	±20	Average RF
2,4-D	94.0	87.3	2.124E4	1.973E4	-7.1	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	96.9	1.82E4	1.762E4	-3.1	NA	±20	Average RF

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

Service Request: K2010412
Date Analyzed: 11/29/20 04:37

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\gc24\data\112820\11280049.D\
Signal ID: ZB-XLB-HT

Calibration Date: 10/21/2020
Calibration ID: KC2000566
Analysis Lot: 705101
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	112	2.03E5	2.398E5	18.1	NA	±20	Average RF
2,4-D	94.0	102	5.12E4	5.536E4	8.1	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	110	4.23E4	4.634E4	9.5	NA	±20	Average RF

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

Service Request: K2010412
Date Analyzed: 11/29/20 09:11

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

Analysis Method: 8151A
File ID: J:\gc24\data\112820\11280061.D\
Signal ID: RTX-CLP2

Calibration Date: 10/21/2020
Calibration ID: KC2000566
Analysis Lot: 705101
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	88.2	9.368E4	8.689E4	-7.2	NA	±20	Average RF
2,4-D	94.0	82.6	2.124E4	1.867E4	-12.1	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	92.9	1.82E4	1.69E4	-7.1	NA	±20	Average RF

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

Service Request: K2010412
Date Analyzed: 11/29/20 09:11

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\gc24\data\112820\11280061.D\
Signal ID: ZB-XLB-HT

Calibration Date: 10/21/2020
Calibration ID: KC2000566
Analysis Lot: 705101
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	108	2.03E5	2.306E5	13.6	NA	±20	Average RF
2,4-D	94.0	96.4	5.12E4	5.252E4	2.6	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	105	4.23E4	4.449E4	5.2	NA	±20	Average RF

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

Service Request: K2010412
Date Analyzed: 11/29/20 13:46

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\gc24\data\112820\11280073.D\
Signal ID: RTX-CLP2

Calibration Date: 10/21/2020
Calibration ID: KC2000566
Analysis Lot: 705101
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	93.3	9.368E4	9.192E4	-1.9	NA	±20	Average RF
2,4-D	94.0	86.4	2.124E4	1.952E4	-8.1	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	95.7	1.82E4	1.742E4	-4.3	NA	±20	Average RF

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

Service Request: K2010412
Date Analyzed: 11/29/20 13:46

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

Analysis Method: 8151A
File ID: J:\gc24\data\112820\11280073.D\
Signal ID: ZB-XLB-HT

Calibration Date: 10/21/2020
Calibration ID: KC2000566
Analysis Lot: 705101
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	119	2.03E5	2.532E5	24.7*	NA	±20	Average RF
2,4-D	94.0	107	5.12E4	5.824E4	13.8	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	112	4.23E4	4.743E4	12.1	NA	±20	Average RF

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

Service Request: K2010412
Date Analyzed: 11/29/20 18:21

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

Analysis Method: 8151A
File ID: J:\gc24\data\112820\11280085.D\
Signal ID: RTX-CLP2

Calibration Date: 10/21/2020
Calibration ID: KC2000566
Analysis Lot: 705101
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	90.3	9.368E4	8.898E4	-5.0	NA	±20	Average RF
2,4-D	94.0	85.3	2.124E4	1.927E4	-9.3	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	92.1	1.82E4	1.675E4	-7.9	NA	±20	Average RF

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

Service Request: K2010412
Date Analyzed: 11/29/20 18:21

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\gc24\data\112820\11280085.D\
Signal ID: ZB-XLB-HT

Calibration Date: 10/21/2020
Calibration ID: KC2000566
Analysis Lot: 705101
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	113	2.03E5	2.406E5	18.5	NA	±20	Average RF
2,4-D	94.0	102	5.12E4	5.545E4	8.3	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	108	4.23E4	4.58E4	8.3	NA	±20	Average RF

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

Service Request: K2010412
Date Analyzed: 11/29/20 22:33

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\gc24\data\112820\11280096.D\
Signal ID: RTX-CLP2

Calibration Date: 10/21/2020
Calibration ID: KC2000566
Analysis Lot: 705101
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	89.7	9.368E4	8.836E4	-5.7	NA	±20	Average RF
2,4-D	94.0	82.5	2.124E4	1.865E4	-12.2	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	93.4	1.82E4	1.699E4	-6.6	NA	±20	Average RF

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

Service Request: K2010412
Date Analyzed: 11/29/20 22:33

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\gc24\data\112820\11280096.D\
Signal ID: ZB-XLB-HT

Calibration Date: 10/21/2020
Calibration ID: KC2000566
Analysis Lot: 705101
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	113	2.03E5	2.422E5	19.3	NA	±20	Average RF
2,4-D	94.0	103	5.12E4	5.614E4	9.7	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	109	4.23E4	4.612E4	9.0	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:K2010412

Analysis Run Log
Chlorinated Herbicides by GC

Analysis Method:

Analysis Lot:705101
Instrument ID:K-GC-24

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\gc24\data\112820\11280002.D\	ZZZZZZZ	ZZZZZZZ	11/28/2020	10:42:00	
J:\gc24\data\112820\11280003.D\	Continuing Calibration Blank	KQ2018923-02	11/28/2020	11:05:00	
J:\gc24\data\112820\11280004.D\	ZZZZZZZ	ZZZZZZZ	11/28/2020	11:28:00	
J:\gc24\data\112820\11280005.D\	ZZZZZZZ	ZZZZZZZ	11/28/2020	11:51:00	
J:\gc24\data\112820\11280006.D\	ZZZZZZZ	ZZZZZZZ	11/28/2020	12:14:00	
J:\gc24\data\112820\11280007.D\	ZZZZZZZ	ZZZZZZZ	11/28/2020	12:37:00	
J:\gc24\data\112820\11280008.D\	ZZZZZZZ	ZZZZZZZ	11/28/2020	13:00:00	
J:\gc24\data\112820\11280009.D\	ZZZZZZZ	ZZZZZZZ	11/28/2020	13:22:00	
J:\gc24\data\112820\11280010.D\	ZZZZZZZ	ZZZZZZZ	11/28/2020	13:45:00	
J:\gc24\data\112820\11280011.D\	ZZZZZZZ	ZZZZZZZ	11/28/2020	14:08:00	
J:\gc24\data\112820\11280012.D\	ZZZZZZZ	ZZZZZZZ	11/28/2020	14:31:00	
J:\gc24\data\112820\11280013.D\	ZZZZZZZ	ZZZZZZZ	11/28/2020	14:54:00	
J:\gc24\data\112820\11280014.D\	ZZZZZZZ	ZZZZZZZ	11/28/2020	15:16:00	
J:\gc24\data\112820\11280015.D\	Continuing Calibration Blank	KQ2018923-04	11/28/2020	15:39:00	
J:\gc24\data\112820\11280016.D\	ZZZZZZZ	ZZZZZZZ	11/28/2020	16:02:00	
J:\gc24\data\112820\11280017.D\	ZZZZZZZ	ZZZZZZZ	11/28/2020	16:25:00	
J:\gc24\data\112820\11280018.D\	ZZZZZZZ	ZZZZZZZ	11/28/2020	16:48:00	
J:\gc24\data\112820\11280019.D\	ZZZZZZZ	ZZZZZZZ	11/28/2020	17:11:00	
J:\gc24\data\112820\11280020.D\	ZZZZZZZ	ZZZZZZZ	11/28/2020	17:34:00	
J:\gc24\data\112820\11280021.D\	ZZZZZZZ	ZZZZZZZ	11/28/2020	17:56:00	
J:\gc24\data\112820\11280022.D\	ZZZZZZZ	ZZZZZZZ	11/28/2020	18:19:00	
J:\gc24\data\112820\11280023.D\	ZZZZZZZ	ZZZZZZZ	11/28/2020	18:42:00	
J:\gc24\data\112820\11280024.D\	ZZZZZZZ	ZZZZZZZ	11/28/2020	19:05:00	
J:\gc24\data\112820\11280025.D\	ZZZZZZZ	ZZZZZZZ	11/28/2020	19:28:00	
J:\gc24\data\112820\11280026.D\	Continuing Calibration Verification	KQ2018923-05	11/28/2020	19:51:00	
J:\gc24\data\112820\11280027.D\	Continuing Calibration Blank	KQ2018923-06	11/28/2020	20:14:00	
J:\gc24\data\112820\11280028.D\	ZZZZZZZ	ZZZZZZZ	11/28/2020	20:36:00	
J:\gc24\data\112820\11280029.D\	ZZZZZZZ	ZZZZZZZ	11/28/2020	20:59:00	
J:\gc24\data\112820\11280030.D\	ZZZZZZZ	ZZZZZZZ	11/28/2020	21:22:00	
J:\gc24\data\112820\11280031.D\	ZZZZZZZ	ZZZZZZZ	11/28/2020	21:45:00	
J:\gc24\data\112820\11280032.D\	ZZZZZZZ	ZZZZZZZ	11/28/2020	22:08:00	
J:\gc24\data\112820\11280033.D\	ZZZZZZZ	ZZZZZZZ	11/28/2020	22:31:00	
J:\gc24\data\112820\11280034.D\	ZZZZZZZ	ZZZZZZZ	11/28/2020	22:53:00	
J:\gc24\data\112820\11280035.D\	ZZZZZZZ	ZZZZZZZ	11/28/2020	23:16:00	
J:\gc24\data\112820\11280036.D\	ZZZZZZZ	ZZZZZZZ	11/28/2020	23:39:00	
J:\gc24\data\112820\11280037.D\	Continuing Calibration Verification	KQ2018923-07	11/29/2020	00:02:00	
J:\gc24\data\112820\11280038.D\	Continuing Calibration Blank	KQ2018923-08	11/29/2020	00:25:00	
J:\gc24\data\112820\11280039.D\	ZZZZZZZ	ZZZZZZZ	11/29/2020	00:48:00	
J:\gc24\data\112820\11280040.D\	ZZZZZZZ	ZZZZZZZ	11/29/2020	01:11:00	
J:\gc24\data\112820\11280041.D\	Method Blank	KQ2017767-04	11/29/2020	01:34:00	
J:\gc24\data\112820\11280042.D\	Lab Control Sample	KQ2017767-03	11/29/2020	01:56:00	
J:\gc24\data\112820\11280043.D\	USMPDI-056SC-B-06-08-201107	K2010412-001	11/29/2020	02:19:00	
J:\gc24\data\112820\11280044.D\	USMPDI-056SC-B-08-10-201107	K2010412-002	11/29/2020	02:42:00	
J:\gc24\data\112820\11280045.D\	USMPDI-056SC-B-10-12-201107	K2010412-003	11/29/2020	03:05:00	
J:\gc24\data\112820\11280046.D\	USMPDI-056SC-B-12-14-201107	K2010412-004	11/29/2020	03:28:00	
J:\gc24\data\112820\11280047.D\	USMPDI-013SC-B-00-02-201108	K2010412-005	11/29/2020	03:51:00	

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QA/QC Report

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

Service Request:K2010412

Analysis Run Log
Chlorinated Herbicides by GC

Analysis Method:

Analysis Lot:705101
Instrument ID:K-GC-24

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\gc24\data\112820\11280048.D\	USMPDI-013SC-B-02-04-201108	K2010412-006	11/29/2020	04:14:00	
J:\gc24\data\112820\11280049.D\	Continuing Calibration Verification	KQ2018923-09	11/29/2020	04:37:00	
J:\gc24\data\112820\11280050.D\	Continuing Calibration Blank	KQ2018923-10	11/29/2020	05:00:00	
J:\gc24\data\112820\11280051.D\	USMPDI-013SC-B-04-06-201108	K2010412-007	11/29/2020	05:22:00	
J:\gc24\data\112820\11280052.D\	USMPDI-013SC-B-06-08-201108	K2010412-008	11/29/2020	05:45:00	
J:\gc24\data\112820\11280053.D\	USMPDI-013SC-B-08-10-201108	K2010412-009	11/29/2020	06:08:00	
J:\gc24\data\112820\11280054.D\	USMPDI-013SC-B-10-12-201108	K2010412-010	11/29/2020	06:31:00	
J:\gc24\data\112820\11280055.D\	USMPDI-013SC-B-12-14-201108	K2010412-011	11/29/2020	06:54:00	
J:\gc24\data\112820\11280056.D\	USMPDI-013SC-B-14-15.3-201108	K2010412-012	11/29/2020	07:17:00	
J:\gc24\data\112820\11280057.D\	USMPDI-018SC-B-00-02-201108	K2010412-013	11/29/2020	07:40:00	
J:\gc24\data\112820\11280058.D\	USMPDI-018SC-B-02-04-201108	K2010412-014	11/29/2020	08:03:00	
J:\gc24\data\112820\11280059.D\	USMPDI-018SC-B-04-06-201108	K2010412-015	11/29/2020	08:25:00	
J:\gc24\data\112820\11280060.D\	USMPDI-018SC-B-06-08-201108	K2010412-016	11/29/2020	08:48:00	
J:\gc24\data\112820\11280061.D\	Continuing Calibration Verification	KQ2018923-11	11/29/2020	09:11:00	
J:\gc24\data\112820\11280062.D\	Continuing Calibration Blank	KQ2018923-12	11/29/2020	09:34:00	
J:\gc24\data\112820\11280063.D\	USMPDI-018SC-B-08-10-201108	K2010412-017	11/29/2020	09:57:00	
J:\gc24\data\112820\11280064.D\	USMPDI-018SC-B-10-12-201108	K2010412-018	11/29/2020	10:20:00	
J:\gc24\data\112820\11280065.D\	USMPDI-018SC-B-12-14-201108	K2010412-019	11/29/2020	10:43:00	
J:\gc24\data\112820\11280066.D\	USMPDI-018SC-B-12-14-201108 MS	KQ2017767-01	11/29/2020	11:05:00	
J:\gc24\data\112820\11280067.D\	USMPDI-018SC-B-12-14-201108 DMS	KQ2017767-02	11/29/2020	11:28:00	
J:\gc24\data\112820\11280068.D\	ZZZZZZ	ZZZZZZ	11/29/2020	11:51:00	
J:\gc24\data\112820\11280069.D\	ZZZZZZ	ZZZZZZ	11/29/2020	12:14:00	
J:\gc24\data\112820\11280070.D\	ZZZZZZ	ZZZZZZ	11/29/2020	12:37:00	
J:\gc24\data\112820\11280071.D\	ZZZZZZ	ZZZZZZ	11/29/2020	13:00:00	
J:\gc24\data\112820\11280072.D\	ZZZZZZ	ZZZZZZ	11/29/2020	13:23:00	
J:\gc24\data\112820\11280073.D\	Continuing Calibration Verification	KQ2018923-13	11/29/2020	13:46:00	
J:\gc24\data\112820\11280074.D\	Continuing Calibration Blank	KQ2018923-14	11/29/2020	14:09:00	
J:\gc24\data\112820\11280075.D\	ZZZZZZ	ZZZZZZ	11/29/2020	14:32:00	
J:\gc24\data\112820\11280076.D\	ZZZZZZ	ZZZZZZ	11/29/2020	14:55:00	
J:\gc24\data\112820\11280077.D\	ZZZZZZ	ZZZZZZ	11/29/2020	15:17:00	
J:\gc24\data\112820\11280078.D\	ZZZZZZ	ZZZZZZ	11/29/2020	15:40:00	
J:\gc24\data\112820\11280079.D\	ZZZZZZ	ZZZZZZ	11/29/2020	16:04:00	
J:\gc24\data\112820\11280080.D\	ZZZZZZ	ZZZZZZ	11/29/2020	16:26:00	
J:\gc24\data\112820\11280081.D\	ZZZZZZ	ZZZZZZ	11/29/2020	16:50:00	
J:\gc24\data\112820\11280082.D\	ZZZZZZ	ZZZZZZ	11/29/2020	17:12:00	
J:\gc24\data\112820\11280083.D\	ZZZZZZ	ZZZZZZ	11/29/2020	17:35:00	
J:\gc24\data\112820\11280084.D\	ZZZZZZ	ZZZZZZ	11/29/2020	17:58:00	
J:\gc24\data\112820\11280085.D\	Continuing Calibration Verification	KQ2018923-15	11/29/2020	18:21:00	
J:\gc24\data\112820\11280086.D\	Continuing Calibration Blank	KQ2018923-16	11/29/2020	18:44:00	
J:\gc24\data\112820\11280087.D\	ZZZZZZ	ZZZZZZ	11/29/2020	19:07:00	
J:\gc24\data\112820\11280088.D\	ZZZZZZ	ZZZZZZ	11/29/2020	19:30:00	
J:\gc24\data\112820\11280089.D\	ZZZZZZ	ZZZZZZ	11/29/2020	19:53:00	
J:\gc24\data\112820\11280090.D\	ZZZZZZ	ZZZZZZ	11/29/2020	20:16:00	
J:\gc24\data\112820\11280091.D\	ZZZZZZ	ZZZZZZ	11/29/2020	20:39:00	
J:\gc24\data\112820\11280092.D\	ZZZZZZ	ZZZZZZ	11/29/2020	21:02:00	

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QA/QC Report

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

Service Request:K2010412

Analysis Run Log
Chlorinated Herbicides by GC

Analysis Method:

Analysis Lot:705101
Instrument ID:K-GC-24

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\gc24\data\112820\11280093.D\	ZZZZZZZ	ZZZZZZZ	11/29/2020	21:24:00	
J:\gc24\data\112820\11280094.D\	ZZZZZZZ	ZZZZZZZ	11/29/2020	21:47:00	
J:\gc24\data\112820\11280095.D\	ZZZZZZZ	ZZZZZZZ	11/29/2020	22:10:00	
J:\gc24\data\112820\11280096.D\	Continuing Calibration Verification	KQ2018923-17	11/29/2020	22:33:00	
J:\gc24\data\112820\11280097.D\	Continuing Calibration Blank	KQ2018923-18	11/29/2020	22:56:00	

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Prep Summary Report

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

Service Request: K2010412

Chlorinated Herbicides by GC

Prep Method: Method
Analytical Method: 8151A

Extraction Lot: 369613
Extraction Date: 11/11/20 15:47

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
USMPDI-056SC-B-06-08-201107	K2010412-001	11/7/20	11/10/20	30.007 g	50 mL	77.5
USMPDI-056SC-B-08-10-201107	K2010412-002	11/7/20	11/10/20	30.050 g	50 mL	83.0
USMPDI-056SC-B-10-12-201107	K2010412-003	11/7/20	11/10/20	30.180 g	50 mL	76.6
USMPDI-056SC-B-12-14-201107	K2010412-004	11/7/20	11/10/20	30.090 g	50 mL	80.2
USMPDI-013SC-B-00-02-201108	K2010412-005	11/8/20	11/10/20	30.438 g	50 mL	53.5
USMPDI-013SC-B-02-04-201108	K2010412-006	11/8/20	11/10/20	30.106 g	50 mL	75.0
USMPDI-013SC-B-04-06-201108	K2010412-007	11/8/20	11/10/20	30.070 g	50 mL	75.3
USMPDI-013SC-B-06-08-201108	K2010412-008	11/8/20	11/10/20	30.095 g	50 mL	77.2
USMPDI-013SC-B-08-10-201108	K2010412-009	11/8/20	11/10/20	30.158 g	50 mL	85.3
USMPDI-013SC-B-10-12-201108	K2010412-010	11/8/20	11/10/20	30.092 g	50 mL	75.8
USMPDI-013SC-B-12-14-201108	K2010412-011	11/8/20	11/10/20	30.297 g	50 mL	74.5
USMPDI-013SC-B-14-15.3-201108	K2010412-012	11/8/20	11/10/20	30.357 g	50 mL	71.9
USMPDI-018SC-B-00-02-201108	K2010412-013	11/8/20	11/10/20	30.082 g	50 mL	52.7
USMPDI-018SC-B-02-04-201108	K2010412-014	11/8/20	11/10/20	30.097 g	50 mL	58.4
USMPDI-018SC-B-04-06-201108	K2010412-015	11/8/20	11/10/20	30.253 g	50 mL	55.9
USMPDI-018SC-B-06-08-201108	K2010412-016	11/8/20	11/10/20	30.284 g	50 mL	61.3
USMPDI-018SC-B-08-10-201108	K2010412-017	11/8/20	11/10/20	30.284 g	50 mL	87.1
USMPDI-018SC-B-10-12-201108	K2010412-018	11/8/20	11/10/20	30.051 g	50 mL	78.7
USMPDI-018SC-B-12-14-201108	K2010412-019	11/8/20	11/10/20	30.015 g	50 mL	87.8
Matrix Spike	KQ2017767-01MS	11/8/20	11/10/20	30.135 g	50 mL	87.8
Duplicate Matrix Spike	KQ2017767-02DMS	11/8/20	11/10/20	30.054 g	50 mL	87.8
Lab Control Sample	KQ2017767-03LCS	NA	NA	30.00 g	50 mL	
Method Blank	KQ2017767-04MB	NA	NA	30.4380 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: 705587 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
K2010412-001	Solids, Total	N/A		Sediment	77.50 Percent	31.3623 g	77.5 Percent	1					12/1/20 16:40:00	N	IV
K2010412-002	Solids, Total	N/A		Sediment	83.00 Percent	29.8110 g	83.0 Percent	1					12/1/20 16:40:00	N	IV
K2010412-003	Solids, Total	N/A		Sediment	76.60 Percent	37.3239 g	76.6 Percent	1					12/1/20 16:40:00	N	IV
K2010412-004	Solids, Total	N/A		Sediment	80.20 Percent	33.8942 g	80.2 Percent	1					12/1/20 16:40:00	N	IV
K2010412-005	Solids, Total	N/A		Sediment	53.50 Percent	28.4709 g	53.5 Percent	1					12/1/20 16:40:00	N	IV
K2010412-006	Solids, Total	N/A		Sediment	75.00 Percent	35.5692 g	75.0 Percent	1					12/1/20 16:40:00	N	IV
K2010412-007	Solids, Total	N/A		Sediment	75.30 Percent	26.4764 g	75.3 Percent	1					12/1/20 16:40:00	N	IV
K2010412-008	Solids, Total	N/A		Sediment	77.20 Percent	40.7716 g	77.2 Percent	1					12/1/20 16:40:00	N	IV
K2010412-009	Solids, Total	N/A		Sediment	85.30 Percent	31.9310 g	85.3 Percent	1					12/1/20 16:40:00	N	IV
K2010412-010	Solids, Total	N/A		Sediment	75.80 Percent	33.1575 g	75.8 Percent	1					12/1/20 16:40:00	N	IV
K2010412-011	Solids, Total	N/A		Sediment	74.50 Percent	30.2221 g	74.5 Percent	1					12/1/20 16:40:00	N	IV
K2010412-012	Solids, Total	N/A		Sediment	71.90 Percent	32.8423 g	71.9 Percent	1					12/1/20 16:40:00	N	IV
K2010412-013	Solids, Total	N/A		Sediment	52.70 Percent	32.1724 g	52.7 Percent	1					12/1/20 16:40:00	N	IV
K2010412-014	Solids, Total	N/A		Sediment	58.40 Percent	28.9924 g	58.4 Percent	1					12/1/20 16:40:00	N	IV
K2010412-015	Solids, Total	N/A		Sediment	55.90 Percent	36.6468 g	55.9 Percent	1					12/1/20 16:40:00	N	IV
K2010412-016	Solids, Total	N/A		Sediment	61.30 Percent	28.0592 g	61.3 Percent	1					12/1/20 16:40:00	N	IV
K2010412-017	Solids, Total	N/A		Sediment	87.10 Percent	28.1962 g	87.1 Percent	1					12/1/20 16:40:00	N	IV
K2010412-018	Solids, Total	N/A		Sediment	78.70 Percent	30.9609 g	78.7 Percent	1					12/1/20 16:40:00	N	IV
K2010412-019	Solids, Total	N/A		Sediment	87.80 Percent	26.6448 g	87.8 Percent	1					12/1/20 16:40:00	Y	IV
KQ2019156-01	Solids, Total	DUP	K2010412-002	Sediment	81.40 Percent	32.2879 g	81.4 Percent	1				2	12/1/20 16:40:00	N	IV
KQ2019156-02	Solids, Total	MB		Sediment	0.00 Percent	50.0893 g	0.0 Percent	1					12/1/20 16:40:00	N	IV
KQ2019156-03	Solids, Total	DUP	K2010412-019	Sediment	87.50 Percent	26.2452 g	87.5 Percent	1				<1	12/1/20 16:40:00	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 #: K2010412

Method: SM 2540 G

Run: 705587

Analysis: Total Solids / Volatile Solids

Matrix: Soil/Solids

Oven Temp and Times				
Oven Temp	Time In	Date In	Time Out	Date Out
105	16:40	12/1/2020	8:25	12/2/2020
105	9:45	12/2/2020	10:50	12/2/2020
/	/	/	/	/
/	/	/	/	/
/	/	/	/	/
/	/	/	/	/
/	/	/	/	/
/	/	/	/	/
/	/	/	/	/
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/	/	/	/	/
/	/	/	/	/
/	/	/	/	/
/	/	/	/	/
/	/	/	/	/

Analyzed By:	BN	Date Analyzed:	12/1/2020
Reviewed By:	<i>[Signature]</i>	Date Reviewed:	12/2/20


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

Work Order #: K2010412 Method: SM 2540 G

Run: 705587

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

CCV Verification SN:1000122198, 6040						
	200.0000g	≤(+/- 0.5%)		10.0000g	≤(+/- 0.5%)	Date
CCV1	199.9948	100.0%	CCV1	9.9989	100.0%	12/1/2020
CCV2	199.9947	100.0%	CCV2	9.9985	100.0%	12/1/2020
CCV3	199.9963	100.0%	CCV3	9.9983	100.0%	12/2/2020
CCV4	199.9960	100.0%	CCV4	9.9982	100.0%	12/2/2020
CCV5	199.9962	100.0%	CCV5	9.9986	100.0%	12/2/2020
CCV6	199.9965	100.0%	CCV6	9.9987	100.0%	12/2/2020
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:	12/1/2020
Reviewed By:		Date Reviewed:	12/2/20



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#: 369613

Team: Semivoa GC/BGREER

Number of Copies to make: 1

Prep Workflow: OrgHerbS(14)

Prep Method: Method

Status: Prepped

Prep Date/Time: 11/11/20 15:47

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	K2010412-001	USMPDI-056SC-B-06-08-201107	.01	8151A/HERB		Sediment	30.007g	50.00mL	JGRIMES K-Balance-49
2	K2010412-002	USMPDI-056SC-B-08-10-201107	.01	8151A/HERB		Sediment	30.050g	50.00mL	JGRIMES K-Balance-49
3	K2010412-003	USMPDI-056SC-B-10-12-201107	.01	8151A/HERB		Sediment	30.180g	50.00mL	JGRIMES K-Balance-49
4	K2010412-004	USMPDI-056SC-B-12-14-201107	.01	8151A/HERB		Sediment	30.090g	50.00mL	JGRIMES K-Balance-49
5	K2010412-005	USMPDI-013SC-B-00-02-201108	.01	8151A/HERB		Sediment	30.438g	50.00mL	JGRIMES K-Balance-49
6	K2010412-006	USMPDI-013SC-B-02-04-201108	.01	8151A/HERB		Sediment	30.106g	50.00mL	JGRIMES K-Balance-49
7	K2010412-007	USMPDI-013SC-B-04-06-201108	.01	8151A/HERB		Sediment	30.070g	50.00mL	JGRIMES K-Balance-49
8	K2010412-008	USMPDI-013SC-B-06-08-201108	.01	8151A/HERB		Sediment	30.095g	50.00mL	JGRIMES K-Balance-49
9	K2010412-009	USMPDI-013SC-B-08-10-201108	.01	8151A/HERB		Sediment	30.158g	50.00mL	JGRIMES K-Balance-49
10	K2010412-010	USMPDI-013SC-B-10-12-201108	.01	8151A/HERB		Sediment	30.092g	50.00mL	JGRIMES K-Balance-49
11	K2010412-011	USMPDI-013SC-B-12-14-201108	.01	8151A/HERB		Sediment	30.297g	50.00mL	JGRIMES K-Balance-49
12	K2010412-012	USMPDI-013SC-B-14-15-3-201108	.01	8151A/HERB		Sediment	30.357g	50.00mL	JGRIMES K-Balance-49
13	K2010412-013	USMPDI-018SC-B-00-02-201108	.01	8151A/HERB		Sediment	30.082g	50.00mL	JGRIMES K-Balance-49
14	K2010412-014	USMPDI-018SC-B-02-04-201108	.01	8151A/HERB		Sediment	30.097g	50.00mL	JGRIMES K-Balance-49
15	K2010412-015	USMPDI-018SC-B-04-06-201108	.01	8151A/HERB		Sediment	30.253g	50.00mL	JGRIMES K-Balance-49
16	K2010412-016	USMPDI-018SC-B-06-08-201108	.01	8151A/HERB		Sediment	30.284g	50.00mL	JGRIMES K-Balance-49
17	K2010412-017	USMPDI-018SC-B-08-10-201108	.01	8151A/HERB		Sediment	30.284g	50.00mL	JGRIMES K-Balance-49
18	K2010412-018	USMPDI-018SC-B-10-12-201108	.01	8151A/HERB		Sediment	30.284g	50.00mL	JGRIMES K-Balance-49
19	K2010412-019	USMPDI-018SC-B-12-14-201108	.02	8151A/HERB		Sediment	30.051g	50.00mL	JGRIMES K-Balance-49
20	KQ2017767-01	K2010412-019 MS	.02	8151A/HERB		Solid	30.135g	50.00mL	JGRIMES K-Balance-49
21	KQ2017767-02	K2010412-019 DMS	.02	8151A/HERB		Solid	30.054g	50.00mL	JGRIMES K-Balance-49
22	KQ2017767-03	LCS		8151A/HERB		Solid	30.00g	50.00mL	JGRIMES K-Balance-49
23	KQ2017767-04	MB		8151A/HERB		Solid	30.4380g	50.00mL	

Spiking Solutions

Name: 8151A 5ppm Herbicide surrogate	Inventory ID: 213982	Logbook Ref: Penta02-15M	Expires On: 05/22/2021
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K2010412-001	1,000.00µL	K2010412-002	1,000.00µL	K2010412-003	1,000.00µL	K2010412-004	1,000.00µL	K2010412-005	1,000.00µL	K2010412-006	1,000.00µL
K2010412-007	1,000.00µL	K2010412-008	1,000.00µL	K2010412-009	1,000.00µL	K2010412-010	1,000.00µL	K2010412-011	1,000.00µL	K2010412-012	1,000.00µL
K2010412-013	1,000.00µL	K2010412-014	1,000.00µL	K2010412-015	1,000.00µL	K2010412-016	1,000.00µL	K2010412-017	1,000.00µL	K2010412-018	1,000.00µL
K2010412-019	1,000.00µL	KQ2017767-01	1,000.00µL	KQ2017767-02	1,000.00µL	KQ2017767-03	1,000.00µL	KQ2017767-04	1,000.00µL		

Name: 8151A 5-500ppm Herbicides matrix spike	Inventory ID: 213990	Logbook Ref: penta02-16C	Expires On: 05/22/2021								
KQ2017767-01	1,000.00µL	KQ2017767-02	1,000.00µL	KQ2017767-03	1,000.00µL						

Preparation Information Benchsheet

Prep Run#: 369613
 Team: Semiova GC/BGREER

Prep Workflow: OrgHerbs(14)
 Prep Method: Method

Status: Prepped
 Prep Date/Time: 11/11/20 15:47

Preparation Steps

Step:	Weight	Step:	Extraction	Step:	Derivatization	Step:	Final Volume
Started:	11/11/20 15:47	Started:	11/23/20 16:20	Started:	11/25/20 09:45	Started:	11/25/20 10:15
Finished:	11/24/20 05:22	Finished:	11/23/20 16:50	Finished:	11/25/20 10:15	Finished:	11/25/20 11:30
By:	BGREER	By:	BGREER	By:	TNORRIS	By:	TNORRIS
Comments		Comments		Comments		Comments	

Comments: **Auth Herbs #1-53**

Reviewed By: LSA Date: 12-1-20

Chain of Custody

Relinquished By: <u>Mans</u>	Date: <u>11/15/20</u>	Extracts Examined Yes No
Received By: <u>WB</u>	Date: <u>11-25-20</u>	

Preparation Information Benchsheet

Prep Run#: 369613
 Team: Semiviva GC/BGREER
 Number of Copies to make: 1

Prep Workflow: OrgHerbS(14)
 Prep Method: Method

Status: Draft
 Prep Date/Time: 11/11/20 15:47 PM

#	Lab Code	Client ID	B#	Method /Test	Matrix	Amt. Ext.	pH	Int. Vol	Final Vol	Surr Amt	Spike Amt
1	K2010412-001	USMPDI-0565C-B-06-08-201107	.01	8151A /HERB	Sediment	X	N/A		SP	1500	1500
2	K2010412-002	USMPDI-0565C-B-08-10-201107	.01	8151A /HERB	Sediment	*			SP		
3	K2010412-003	USMPDI-0565C-B-10-12-201107	.01	8151A /HERB	Sediment	*			SP		
4	K2010412-004	USMPDI-0565C-B-12-14-201107	.01	8151A /HERB	Sediment	*			SP		
5	K2010412-005	USMPDI-0135C-B-00-02-201108	.01	8151A /HERB	Sediment	*			SP		
6	K2010412-006	USMPDI-0135C-B-02-04-201108	.01	8151A /HERB	Sediment	*			SP		
7	K2010412-007	USMPDI-0135C-B-04-06-201108	.01	8151A /HERB	Sediment	*			SP		
8	K2010412-008	USMPDI-0135C-B-06-08-201108	.01	8151A /HERB	Sediment	*			SP		
9	K2010412-009	USMPDI-0135C-B-08-10-201108	.01	8151A /HERB	Sediment	*			SP		
10	K2010412-010	USMPDI-0135C-B-10-12-201108	.01	8151A /HERB	Sediment	*			SP		
11	K2010412-011	USMPDI-0135C-B-12-14-201108	.01	8151A /HERB	Sediment	*			SP		
12	K2010412-012	USMPDI-0135C-B-14-15-3-201108	.01	8151A /HERB	Sediment	*			SP		
13	K2010412-013	USMPDI-0188C-B-00-02-201108	.01	8151A /HERB	Sediment	*			SP		
14	K2010412-014	USMPDI-0188C-B-02-04-201108	.01	8151A /HERB	Sediment	*			SP		
15	K2010412-015	USMPDI-0188C-B-04-06-201108	.01	8151A /HERB	Sediment	*			SP		
16	K2010412-016	USMPDI-0188C-B-06-08-201108	.01	8151A /HERB	Sediment	*			SP		
17	K2010412-017	USMPDI-0188C-B-08-10-201108	.01	8151A /HERB	Sediment	*			SP		
18	K2010412-018	USMPDI-0188C-B-10-12-201108	.01	8151A /HERB	Sediment	*			SP		
19	K2010412-019	USMPDI-0188C-B-12-14-201108	.02	8151A /HERB	Sediment	*			SP		
20	KQ2017767-01	K2010412-019 MS	.02	8151A /HERB	Solid	*			SP		1500
21	KQ2017767-02	K2010412-019 DMS	.02	8151A /HERB	Solid	*			SP		1500
22	KQ2017767-03	LCS		8151A /HERB	Solid				SP		
23	KQ2017767-04	MB		8151A /HERB	Solid	30.438			SP		

Comments: *See pre prep sheet

Surrogate ID: Penta02-15M Spm Ace xp:slzhu 1000µl Spike ID: Penta02-16C S-500ppm Ace xp:slzhu 1000µl

Witnessed By: Fallon Kelly

Assisted By: Fallon Kelly

Prep Run #: 369613

Pre-Prep Information Benchsheet

Container Lot No: 0-244-001, 092120-1TW

Prep Due Date: Nov-16-2020

#	Lab Code	Bottle	Test Name	Weight	Sample Comments	Test Comments
1	K2010412-001	.01	HERB : 8151A	30.007g		JGRIMES K-Balance-49
2	K2010412-002	.01	HERB : 8151A	30.050g		JGRIMES K-Balance-49
3	K2010412-003	.01	HERB : 8151A	30.180g		JGRIMES K-Balance-49
4	K2010412-004	.01	HERB : 8151A	30.090g		JGRIMES K-Balance-49
5	K2010412-005	.01	HERB : 8151A	30.438g		JGRIMES K-Balance-49
6	K2010412-006	.01	HERB : 8151A	30.106g		JGRIMES K-Balance-49
7	K2010412-007	.01	HERB : 8151A	30.070g		JGRIMES K-Balance-49
8	K2010412-008	.01	HERB : 8151A	30.095g		JGRIMES K-Balance-49
9	K2010412-009	.01	HERB : 8151A	30.158g		JGRIMES K-Balance-49
10	K2010412-010	.01	HERB : 8151A	30.092g		JGRIMES K-Balance-49
11	K2010412-011	.01	HERB : 8151A	30.297g		JGRIMES K-Balance-49
12	K2010412-012	.01	HERB : 8151A	30.357g		JGRIMES K-Balance-49
13	K2010412-013	.01	HERB : 8151A	30.082g		JGRIMES K-Balance-49
14	K2010412-014	.01	HERB : 8151A	30.097g		JGRIMES K-Balance-49
15	K2010412-015	.01	HERB : 8151A	30.253g		JGRIMES K-Balance-49
16	K2010412-016	.01	HERB : 8151A	30.284g		JGRIMES K-Balance-49
17	K2010412-017	.01	HERB : 8151A	30.284g		JGRIMES K-Balance-49
18	K2010412-018	.01	HERB : 8151A	30.051g		JGRIMES K-Balance-49
19	K2010412-019	.02	HERB : 8151A	30.015g		JGRIMES K-Balance-49
20	K2010412-019 MS K02017767-01	.02	HERB : 8151A	30.135g		JGRIMES K-Balance-49
21	K2010412-019 DMS K02017767-02	.02	HERB : 8151A	30.054g		JGRIMES K-Balance-49

Delivered to Swezey

Relinquished By: JS Date/Time: 11-11-20 1555 Received By: _____ Date/Time: _____

Printed 11/11/2020 3:48:00 PM

Additional Prep Information for EPA Method 8151A
Herbicides in Soil

Service Request # K2010412 Work Group # KQ2017767

Acidified Sulfate Lot # DZ0387N Matrix Sand Lot # 012418

Ethyl Ether Lot # DZ487 Hydrochloric Acid Lot # S8242

Wrist Action Shaker Start (time/date/initial): 16:20 11/23/20 CA

Wrist Action Shaker Stop (time/date/initial): 16:50 11/23/20 CA

N-Evap (time/date/initial): 0645 11/24/20 BG N-Evap Thermometer ID: X-SVM-004

Temp as measured: 20 °C Correction factor: 0.0 °C Adjusted temp: 20.0 °C

Saponification Start (time/date/initial): 0820 11/24/20 BG 37% KOH Lot # DZ0380K

Saponification Stop (time/date/initial): 1225 11/24/20 BG

Extraction Start (time/date/initial): 1535 11/24/20 BG Sulfuric Acid Lot # DZ0379G

Extraction Stop (time/date/initial): 1600 11/24/20 BG

Derivatization Start (time/date/initial): 0945 11/25/20 TH Diazomethane Lot # DE-0243R

Derivatization Stop (time/date/initial): 1015 11/25/20 TH

Pipette (5 mL) Lot # 04420697

Solvent Exchange to Iso-Octane (time/date/initial): 1015 11/25/20 TH

Iso-Octane Lot # D471945 N-Evap Thermometer ID: X-SVM-002

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

Pipette (1 mL) Lot # 02720646

Vial: red Vial Storage: _____

Archive Storage: Beattie/Grace

Additional Comments: completed 1130 11/25/20 TH

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

Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280043.D\
Lab ID: K2010412-001
RunType: N/A
Matrix: Sediment

Date Acquired: 11/29/20 02:19:00
Batch ID: 705101
Analysis Method: 8151A/HERB

Validations

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

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280043.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 02:19:00	Vial: 50
Run Type: N/A	Dilution: 1
Lab ID: K2010412-001	Raw Units: ppb

Bottle ID: K2010412-001.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/7/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot: 369613	Report Group: K2010412
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 11/11/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	7.99	7.82	1208791	3773525	66.429	89.213	66	89	66	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	10.27 ^{+0.01}	10.10 ^{-0.04}	5796	116286	0.062	0.573	0.13U	1.2U	3.1 U	Y
2,4-D	9.29 ^{-0.03}	9.04 ^{-0.03}	7962	58123	0.375	1.135	0.81U	2.4U	10 U	Y

Prep Amount: 30.007 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 77.50

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

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Data File : J:\gc24\data\112820\11280043.D Vial: 51
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 2:19 am Operator: SM
 Sample : K2010412-001 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 18:57:52 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.993	7.823	1208791	3773525	66.429	89.213 #
Target Compounds						
1) m Dalapon	3.139	2.880	4796	149494	0.198	3.094 #
3) m Dicamba	8.196	7.943	20819	162151	0.298	1.094 #
4) m MCPP	8.319	8.110	83615	107240	2308.102	N.D. #
5) m MCPA	8.603	8.360	9128	75577	155.894	N.D. #
6) m Dichloroprop	8.969	8.773	25906	7706	1.389	0.185 #
7) m 2,4-D	9.289	9.043	7962	58123	0.375m	1.135 #
8) m 2,4,5-TP ...	10.269	10.103	5796	116286	0.062m	0.573 #
9) m 2,4,5-T	10.696	10.550	14299	6909	0.173	0.036 #
10) m 2,4-DB	11.269	11.186	9079	27452	0.885	0.946 #
11) m Dinoseb	11.659	11.250f	95488	331793	1.543	2.426 #

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

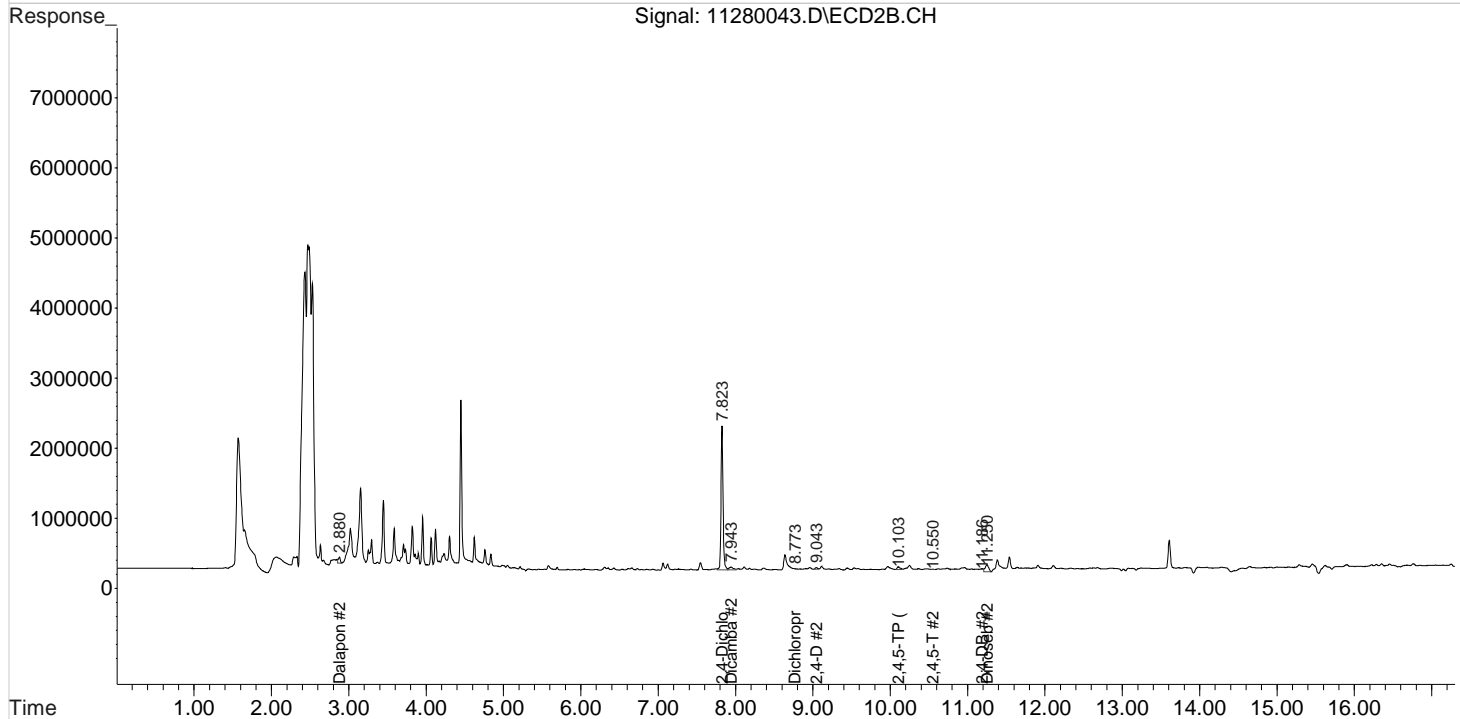
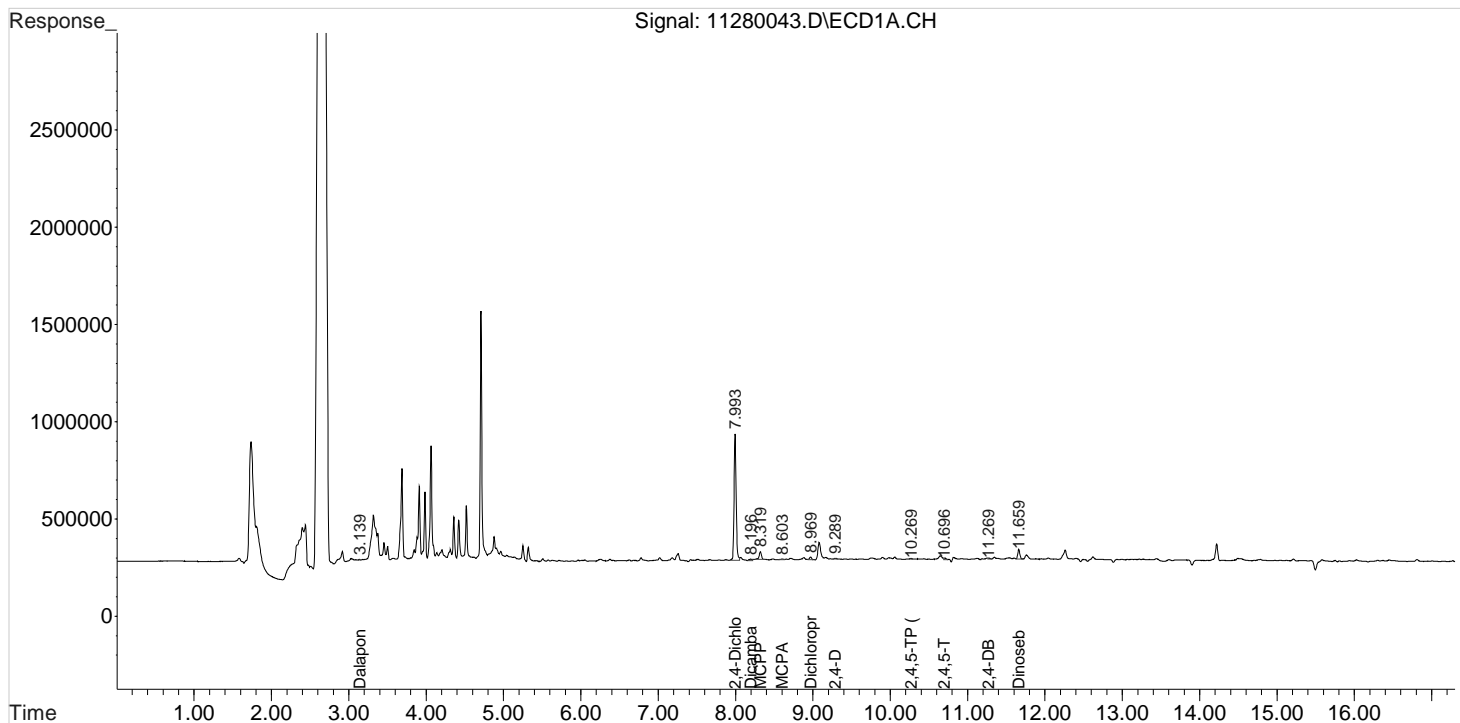
Data File : J:\gc24\data\112820\11280043.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 2:19 am
Sample : K2010412-001
Misc :

Vial: 51
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 18:57:52 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

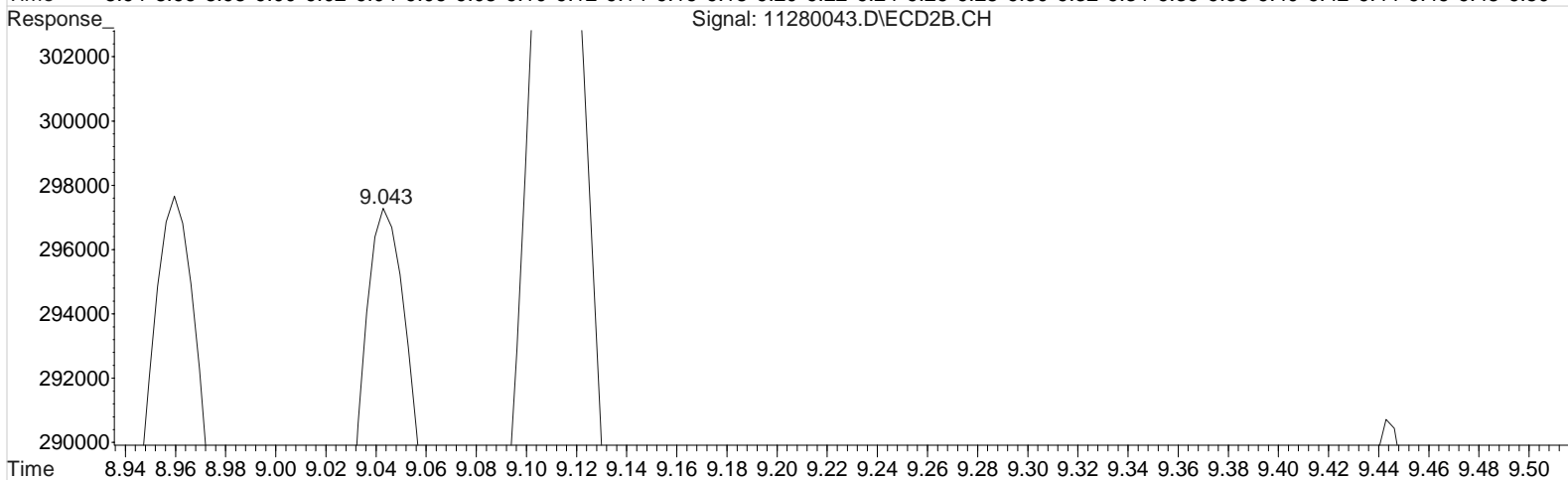
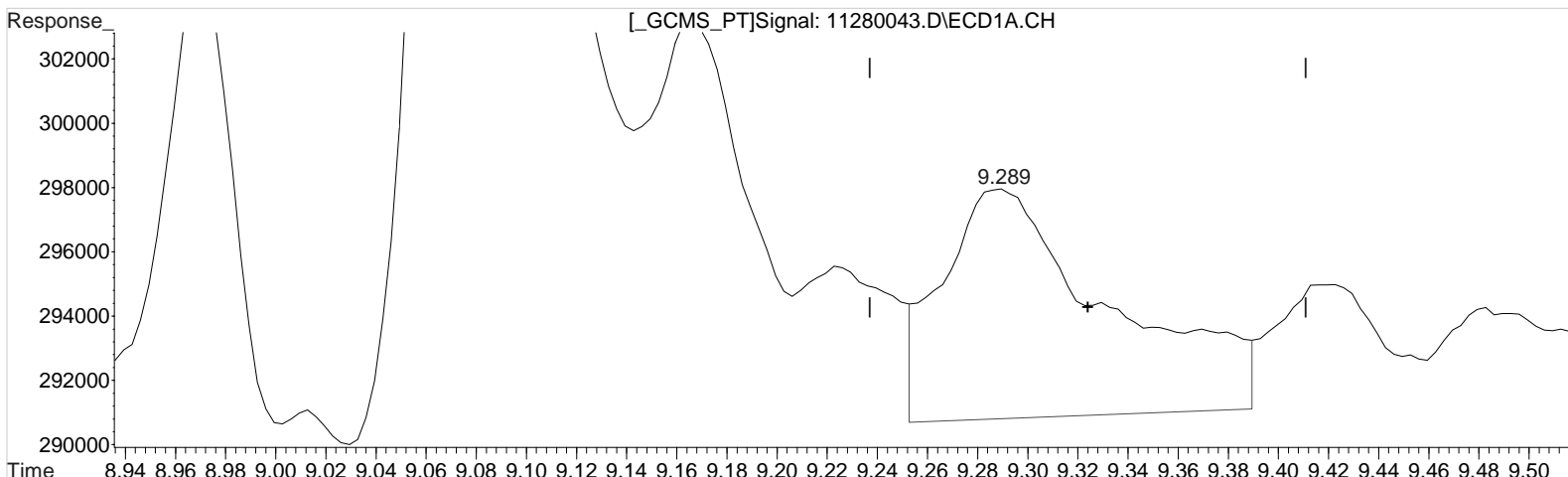
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\112820\11280043.D Vial: 51
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 2:19 am Operator: SM
Sample : K2010412-001 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 11:23:41 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(7) 2,4-D (m)

9.289min 1.567 ppb
response 33276

Manual Integration:

Before

11/29/20

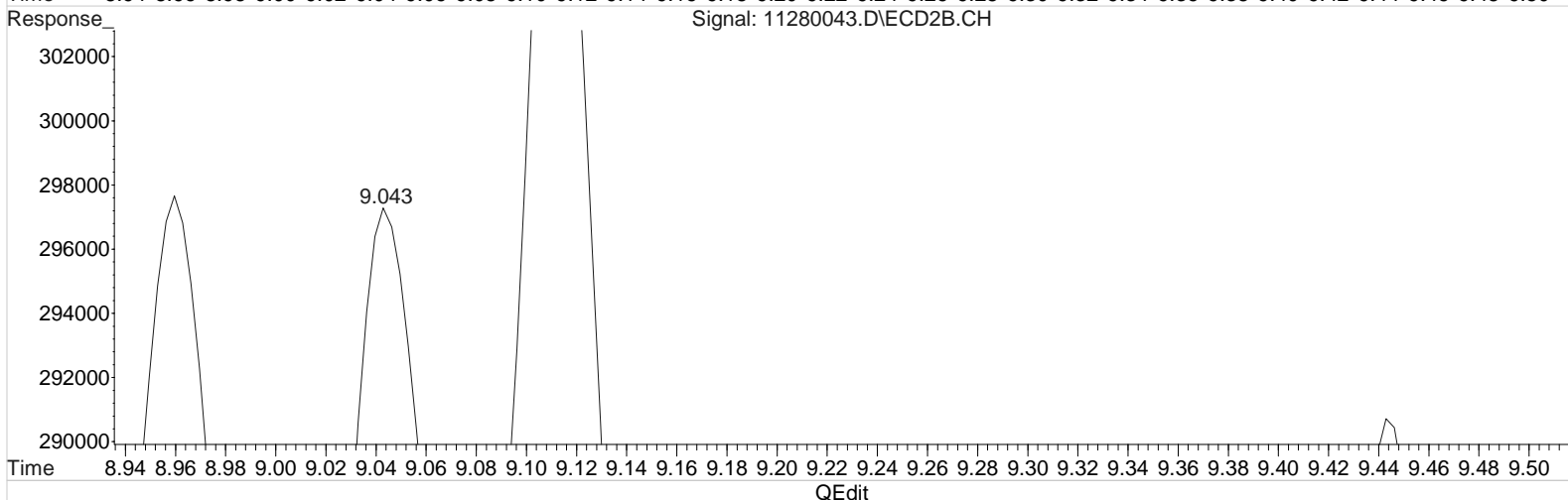
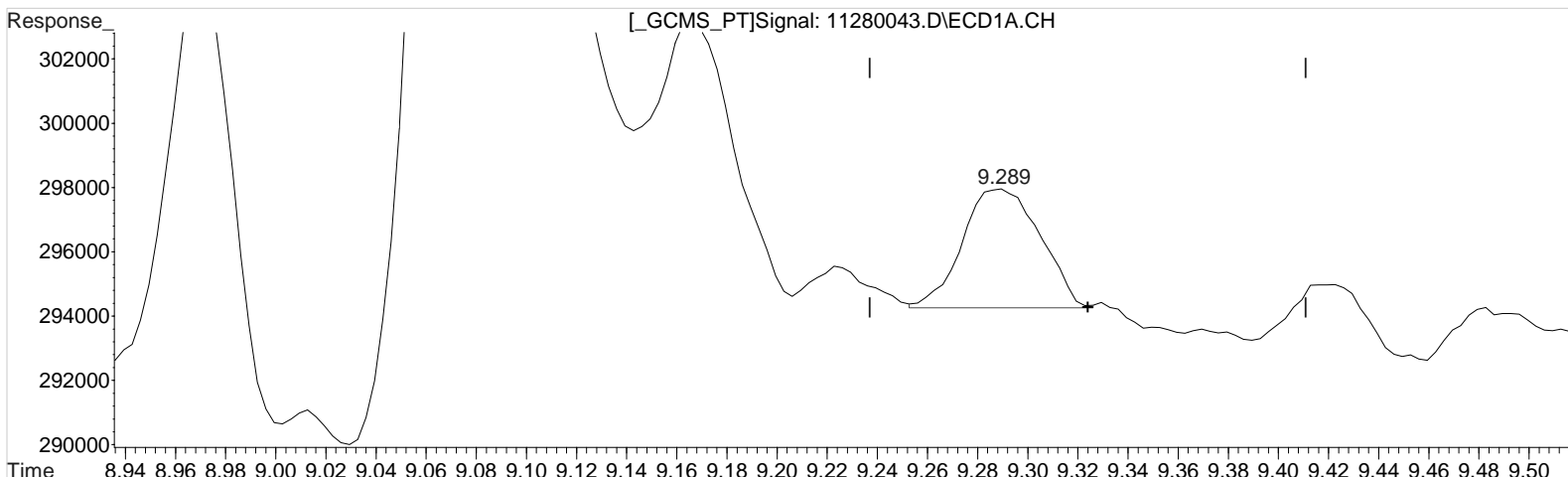
(7) 2,4-D #2 (m)

9.043min 1.135 ppb
response 58123

Data File : J:\gc24\data\112820\11280043.D Vial: 51
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 2:19 am Operator: SM
Sample : K2010412-001 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 11:23:41 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(7) 2,4-D (m)
9.289min 0.375 ppb m
response 7962

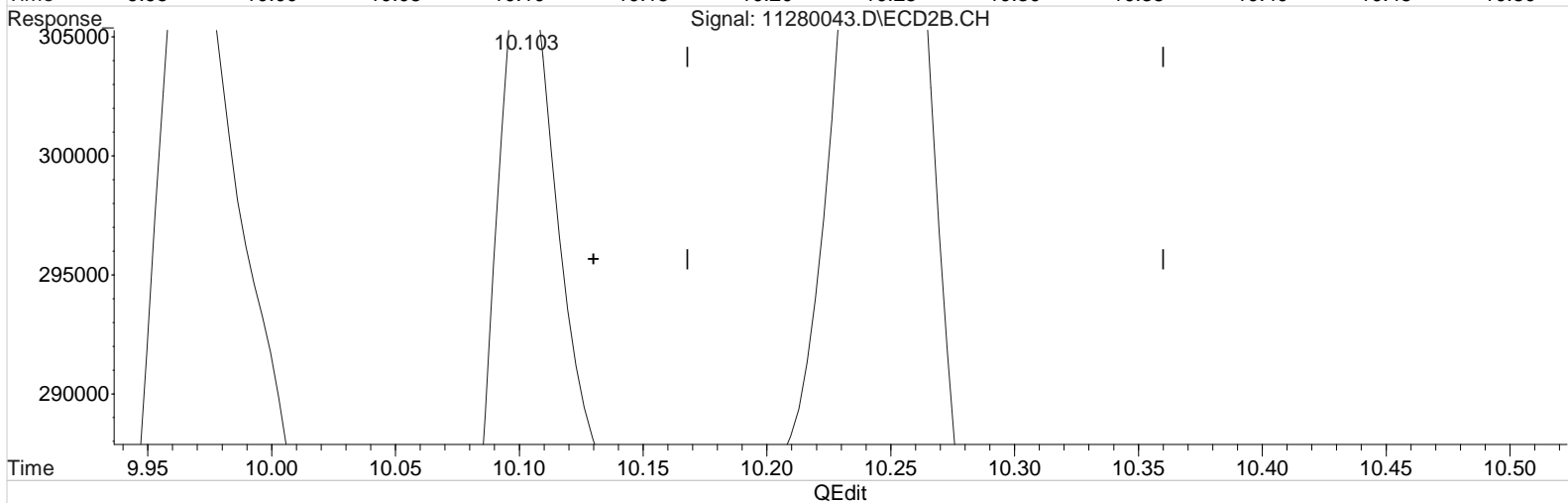
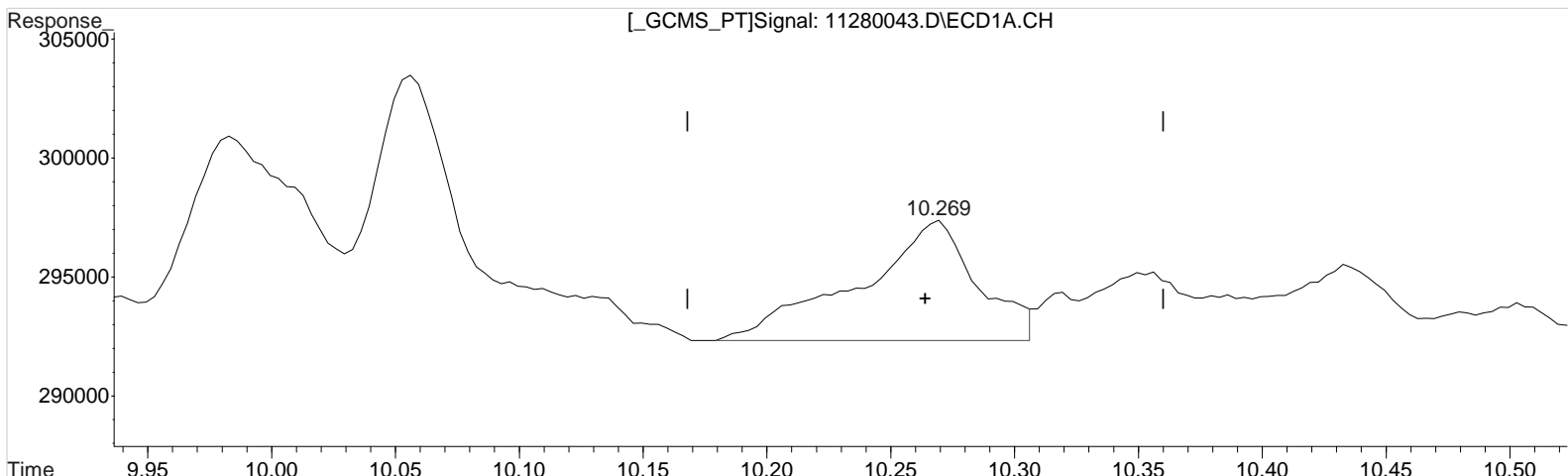
(7) 2,4-D #2 (m)
9.043min 1.135 ppb
response 58123

Manual Integration:
After
Baseline/Shoulder
11/29/20

Data File : J:\gc24\data\112820\11280043.D Vial: 51
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 2:19 am Operator: SM
Sample : K2010412-001 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 11:23:41 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(8) 2,4,5-TP (Silvex) (m)
10.269min 0.179 ppb
response 16808

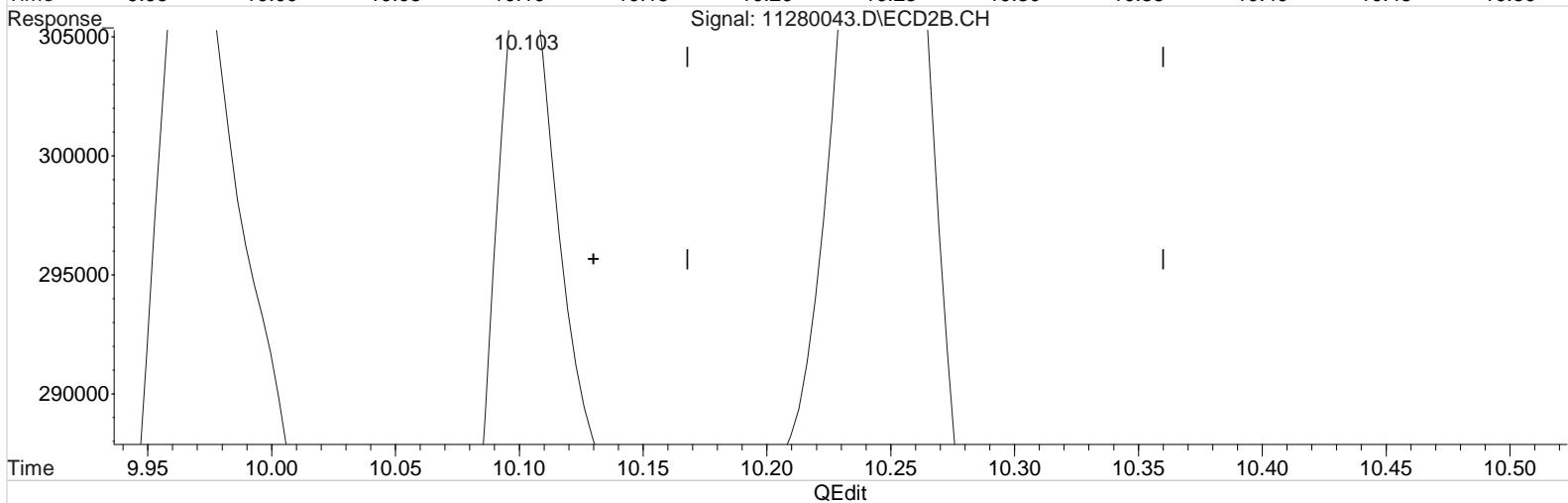
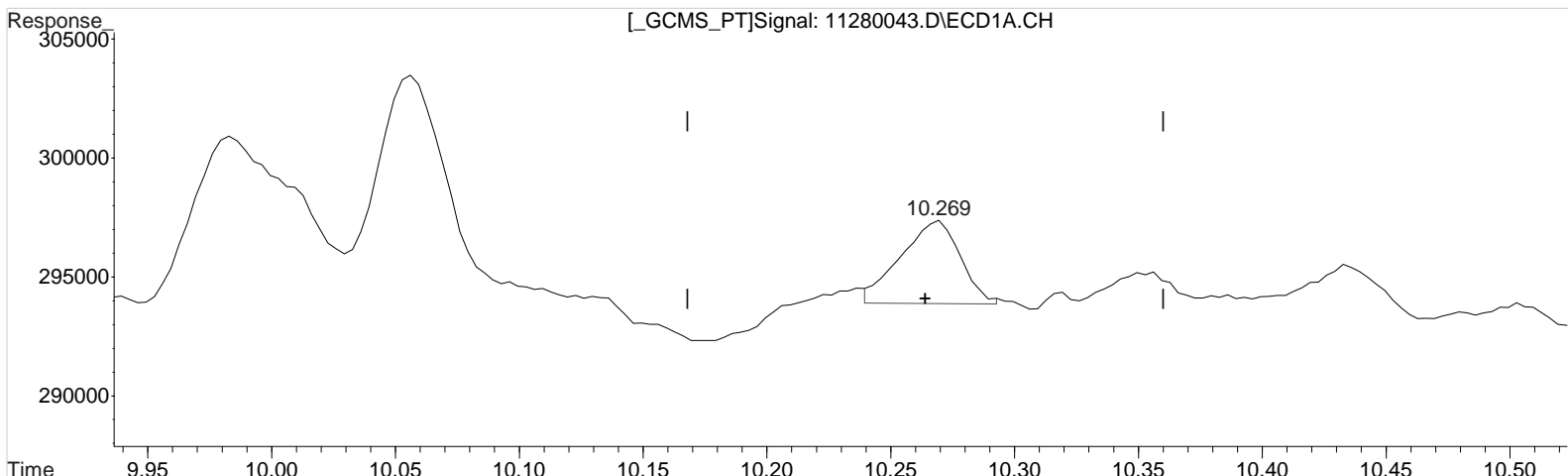
Manual Integration:
Before
11/29/20

(8) 2,4,5-TP (Silvex) #2 (m)
10.103min 0.573 ppb
response 116286

Data File : J:\gc24\data\112820\11280043.D Vial: 51
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 2:19 am Operator: SM
Sample : K2010412-001 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 11:23:41 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(8) 2,4,5-TP (Silvex) (m)
10.269min 0.062 ppb m
response 5796

Manual Integration:
After
Baseline/Shoulder
11/29/20

(8) 2,4,5-TP (Silvex) #2 (m)
10.103min 0.573 ppb
response 116286

(+) = Expected Retention Time

Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280044.D\
Lab ID: K2010412-002
RunType: N/A
Matrix: Sediment

Date Acquired: 11/29/20 02:42:00
Batch ID: 705101
Analysis Method: 8151A/HERB

Validations

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

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280044.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 02:42:00	Vial: 51
Run Type: N/A	Dilution: 1
Lab ID: K2010412-002	Raw Units: ppb

Bottle ID: K2010412-002.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/7/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot: 369613	Report Group: K2010412
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 11/11/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.00 ^{+0.01}	7.83 ^{+0.01}	1218393	3565195	66.957	84.288	67	84	67	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	10.27 ^{+0.01}	10.11 ^{-0.03}	3633	86489	0.039	0.426	0.078U	0.85U	2.9 U	Y
2,4-D	9.30 ^{-0.02}	9.05 ^{-0.02}	10294	63480	0.485	1.240	0.97U	2.5U	9.3 U	Y

Prep Amount: 30.050 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 83.00

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:\gc24\data\112820\11280044.D Vial: 52
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 2:42 am Operator: SM
 Sample : K2010412-002 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 11:23:44 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.999	7.829	1218393	3565195	66.957	84.288 #
Target Compounds						
1) m Dalapon	3.142	2.879	4365	445702	0.180	9.225 #
3) m Dicamba	8.216	7.949	12711	28998	0.182	0.196
4) m MCPP	8.326	8.116	40010	25813	1369.759	N.D. #
5) m MCPA	8.606	8.366	1598	64844	27.292	N.D. #
6) m Dichloroprop	8.976	8.686f	25275	41068	1.355	0.984 #
7) m 2,4-D	9.299	9.049	10294	63480	0.485	1.240 #
8) m 2,4,5-TP ...	10.272	10.106	3633	86489	0.039	0.426 #
9) m 2,4,5-T	10.709	10.549	5579	16936	0.068	0.089 #
10) m 2,4-DB	11.259	11.186	34878	16913	3.400	0.583 #
11) m Dinoseb	11.662	11.249f	65877	270142	1.065	1.975 #

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

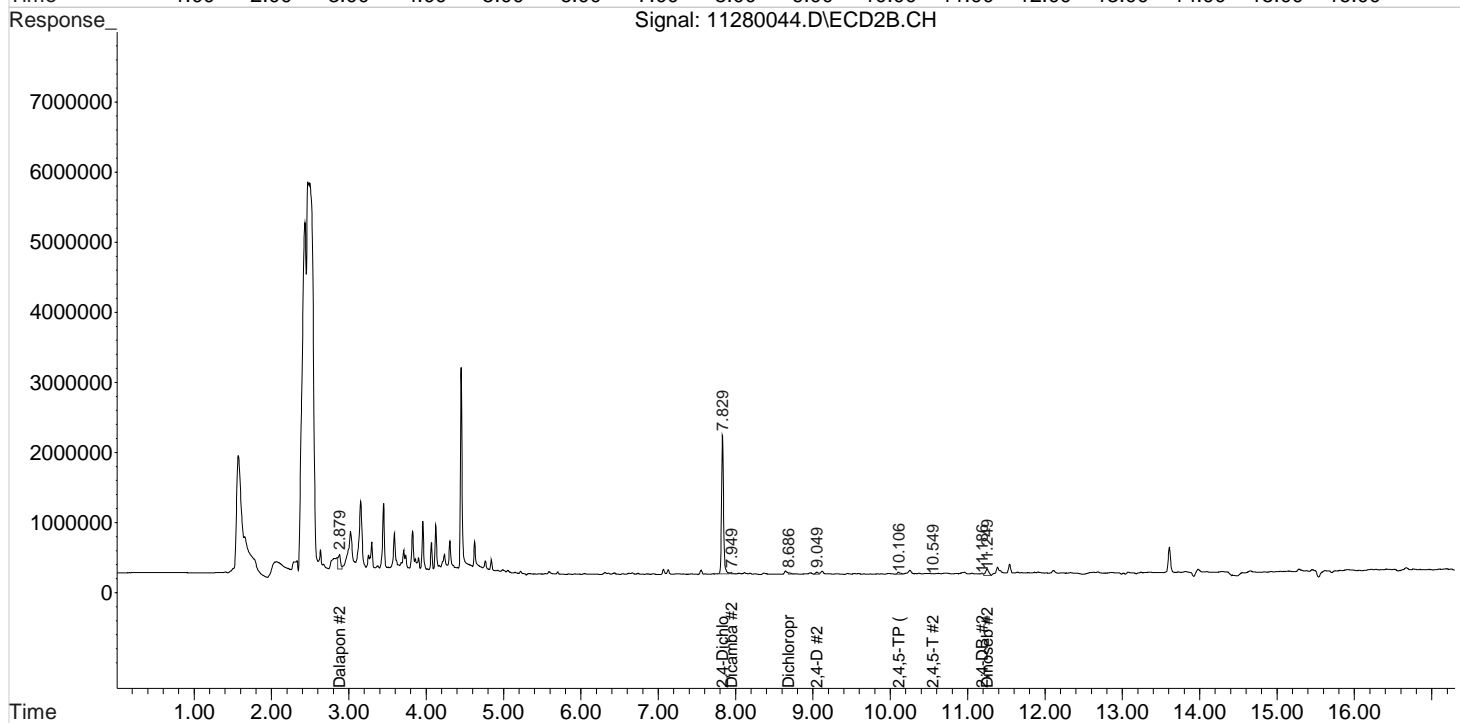
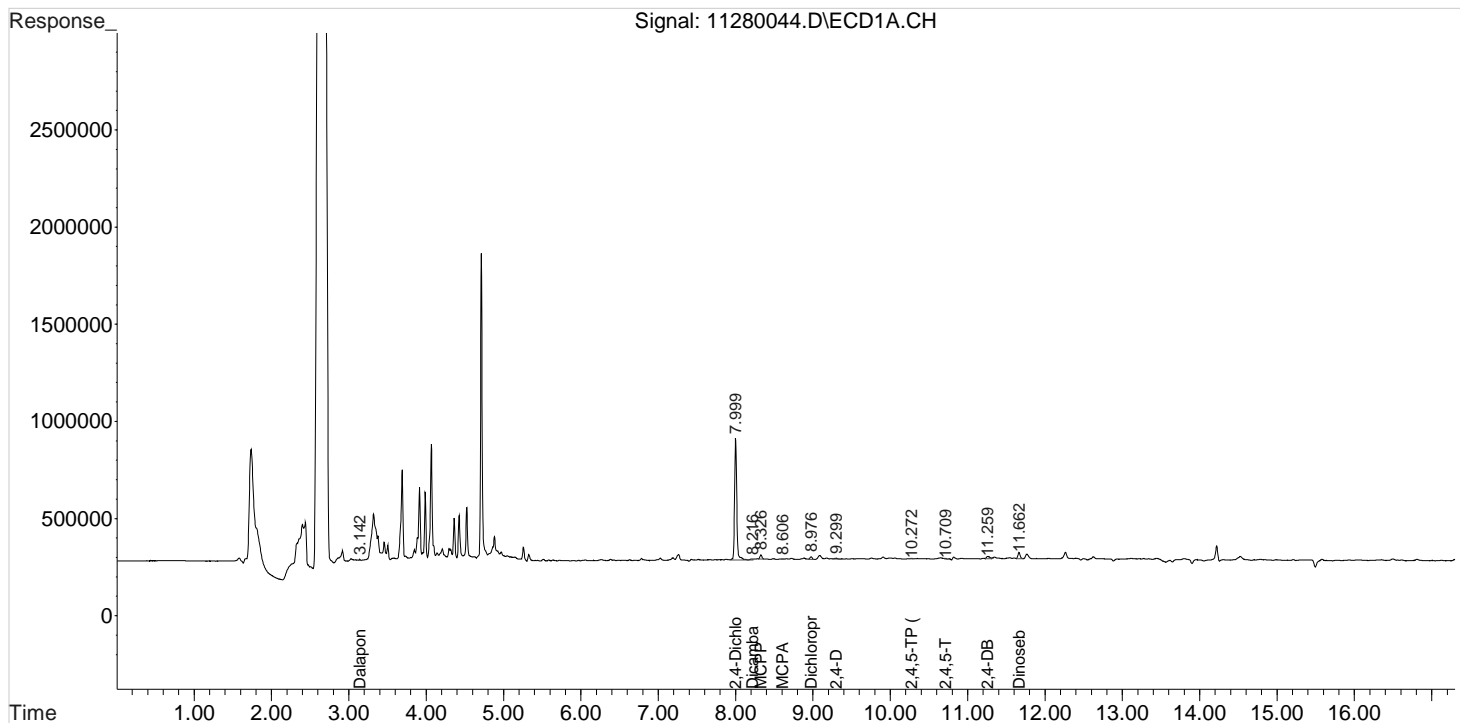
Data File : J:\gc24\data\112820\11280044.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 2:42 am
Sample : K2010412-002
Misc :

Vial: 52
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 11:23:44 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2
Signal #1 Info : 0.25 mm
Signal #2 Phase: ZB-XLB-HT
Signal #2 Info : 0.25 mm



Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280045.D\
Lab ID: K2010412-003
RunType: N/A
Matrix: Sediment

Date Acquired: 11/29/20 03:05:00
Batch ID: 705101
Analysis Method: 8151A/HERB

Validations

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

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280045.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 03:05:00	Vial: 52
Run Type: N/A	Dilution: 1
Lab ID: K2010412-003	Raw Units: ppb

Bottle ID: K2010412-003.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/7/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot: 369613	Report Group: K2010412
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 11/11/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.00 ^{+0.01}	7.83 ^{+0.01}	1209462	3797544	66.466	89.781	66	90	66	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	10.27 ^{+0.01}	10.10 ^{-0.04}	4949	70282	0.053	0.346	0.11U	0.75U	3.2 U	Y
2,4-D	9.29 ^{-0.03}	9.05 ^{-0.02}	8213	35207	0.387	0.688	0.84U	1.5U	10 U	Y

Prep Amount: 30.180 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 76.60

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: 12/2/20 14:54

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Data File : J:\gc24\data\112820\11280045.D Vial: 53
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 3:05 am Operator: SM
 Sample : K2010412-003 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 11:23:47 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	8.000	7.831	1209462	3797544	66.466	89.781 #
Target Compounds						
1) m Dalapon	3.140	2.881	6204	265855	0.256	5.503 #
3) m Dicamba	8.244	7.917	1477	83087	0.021	0.561 #
4) m MCPP	8.327	8.117	22145	37130	985.319	N.D. #
5) m MCPA	8.610	8.367	3454	48871	58.990	N.D. #
6) m Dichloroprop	8.974	8.691f	29394	23891	1.576	0.573 #
7) m 2,4-D	9.290	9.051	8213	35207	0.387	0.688 #
8) m 2,4,5-TP ...	10.270	10.104	4949	70282	0.053	0.346 #
9) m 2,4,5-T	10.717	10.547	2389	167475	0.029	0.875 #
10) m 2,4-DB	11.270	11.187	41554	12094	4.050	0.417 #
11) m Dinoseb	11.664	11.254f	74228	255617	1.200	1.869 #

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

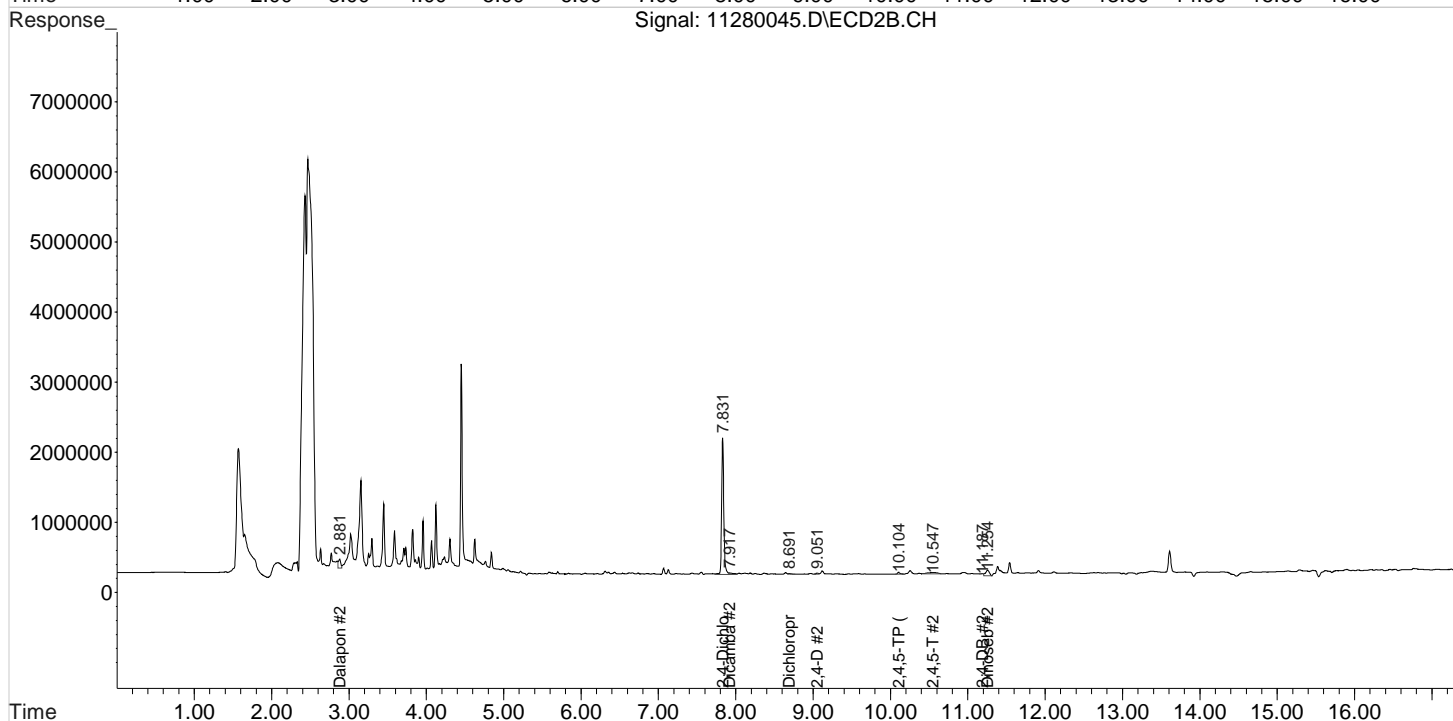
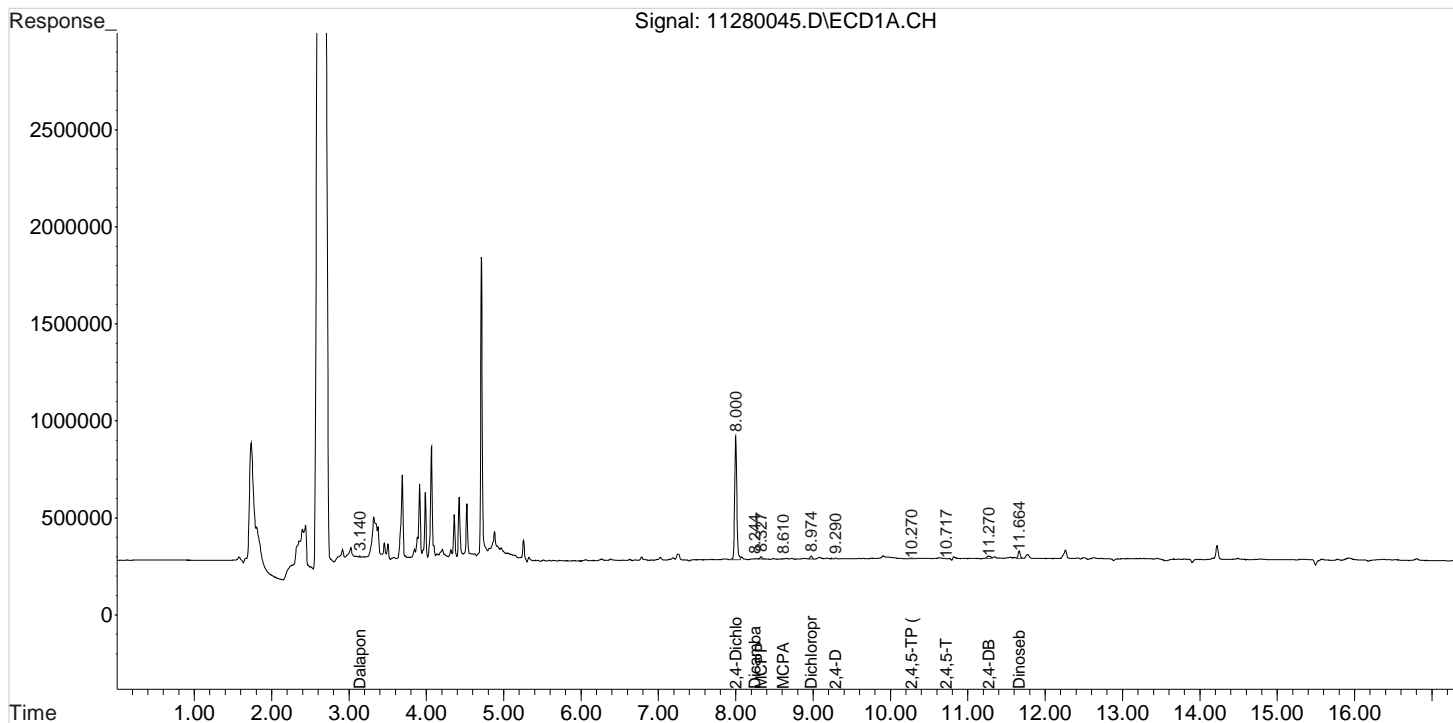
Data File : J:\gc24\data\112820\11280045.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 3:05 am
Sample : K2010412-003
Misc :

Vial: 53
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 11:23:47 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280046.D\
Lab ID: K2010412-004
RunType: N/A
Matrix: Sediment

Date Acquired: 11/29/20 03:28:00
Batch ID: 705101
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

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Analyte Coelutions - ZB-XLB-HT	Dicamba	7.82			CEND
	DCAA	7.82			CEND

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280046.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 03:28:00	Vial: 53
Run Type: N/A	Dilution: 1
Lab ID: K2010412-004	Raw Units: ppb

Bottle ID: K2010412-004.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/7/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot: 369613	Report Group: K2010412
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 11/11/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	7.99	7.82 c	1233886	3883079	67.809	91.803	68	92	68	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt
2,4,5-TP	10.27 ^{+0.01}	10.10 ^{-0.04}	4449	56264	0.047	0.277	0.097U	0.57U	3.0 U	Y
2,4-D	9.29 ^{-0.03}	9.05 ^{-0.02}	7675	37117	0.361	0.725	0.75U	1.5U	9.6 U	Y

Prep Amount: 30.090 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 80.20

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

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Data File : J:\gc24\data\112820\11280046.D Vial: 54
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 3:28 am Operator: SM
 Sample : K2010412-004 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 11:23:50 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.992	7.822	1233886	3883079	67.809	91.803 #
Target Compounds						
1) m Dalapon	3.139	2.879	5265	412021	0.217	8.528 #
3) m Dicamba	8.202	7.822f	9798	3883079	0.140	26.199 #
4) m MCPP	8.322	8.109	21852	44119	979.014	N.D. #
5) m MCPA	8.599	8.359	2040	48363	34.841	N.D. #
6) m Dichloroprop	8.972	8.702	25063	23253	1.344	0.557 #
7) m 2,4-D	9.292	9.046	7675	37117	0.361	0.725 #
8) m 2,4,5-TP ...	10.272	10.099	4449	56264	0.047	0.277 #
9) m 2,4,5-T	10.719	10.546	2641	3286	0.032	0.017 #
10) m 2,4-DB	11.265	11.182	43759	16968	4.265	0.585 #
11) m Dinoseb	11.662	11.249f	103993	250865	1.681	1.834

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

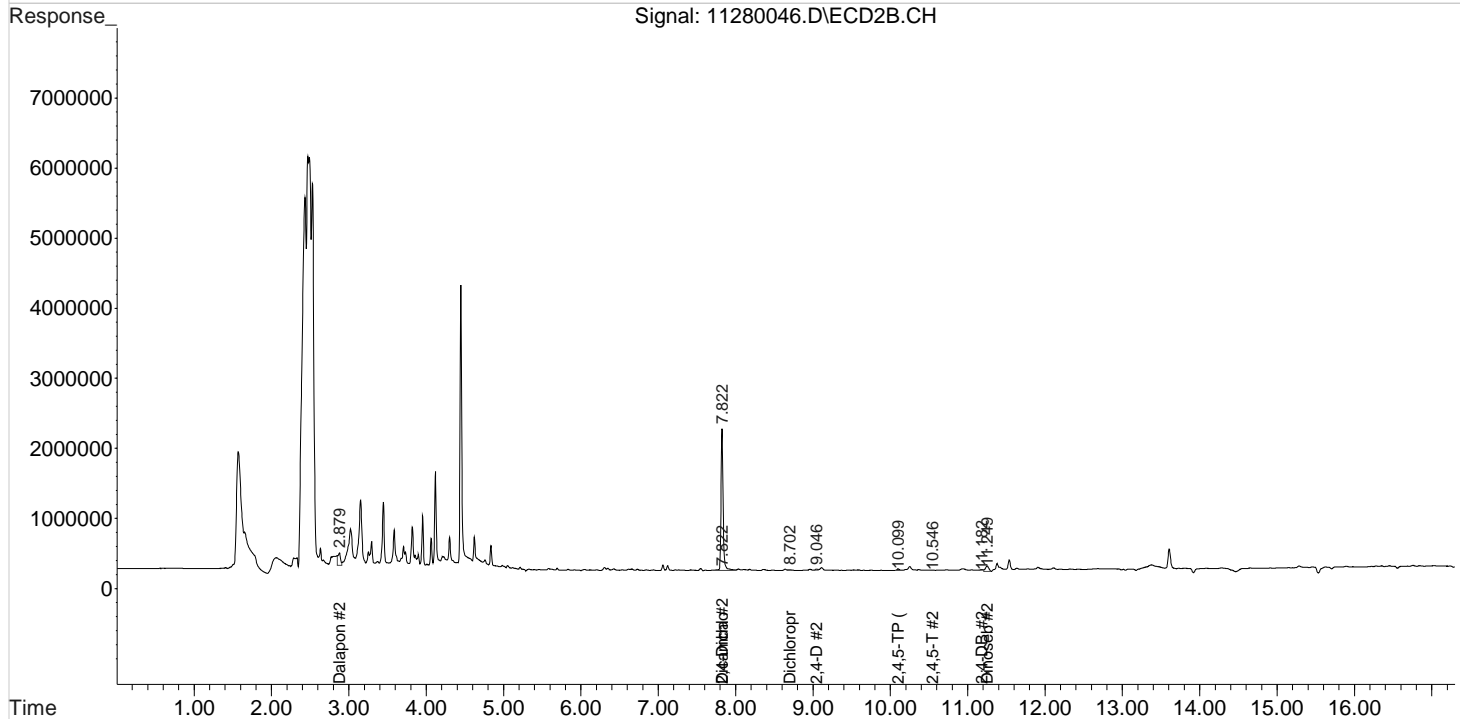
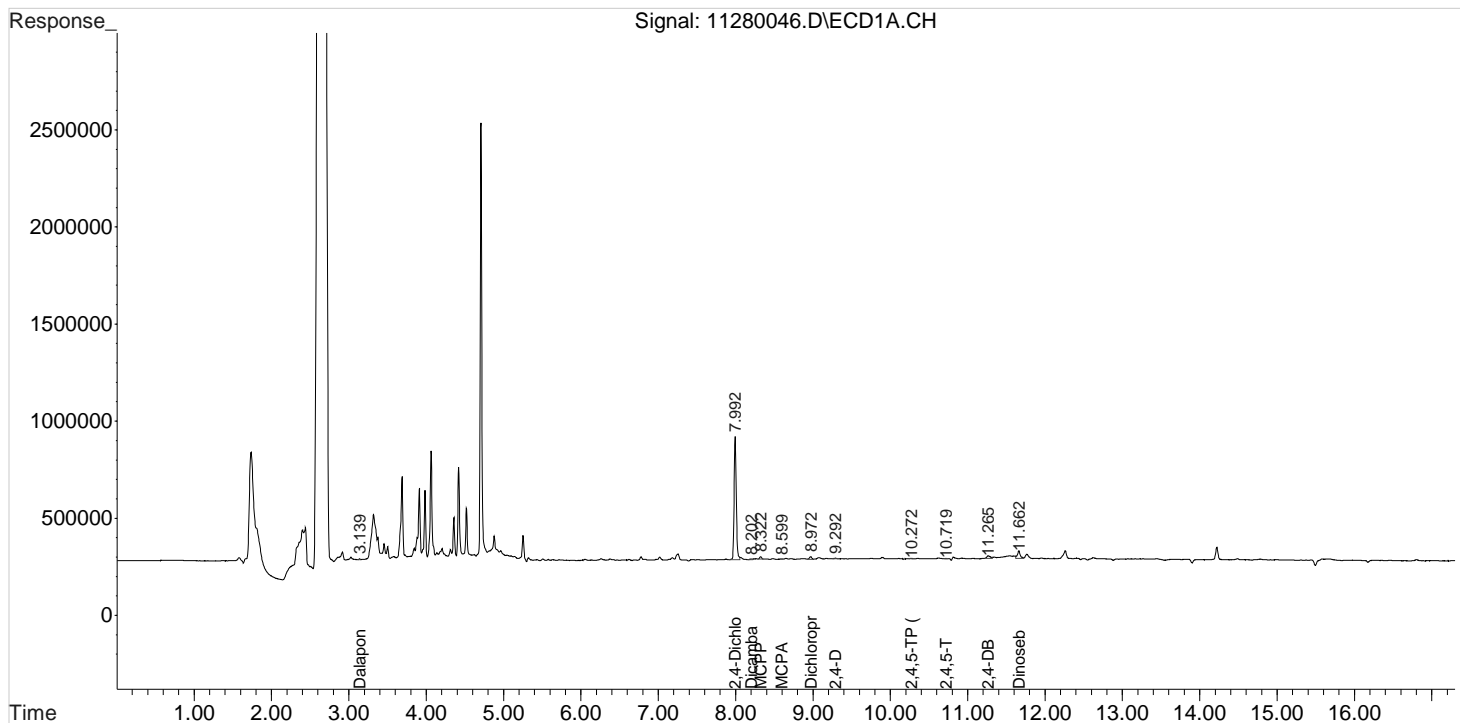
Data File : J:\gc24\data\112820\11280046.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 3:28 am
Sample : K2010412-004
Misc :

Vial: 54
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 11:23:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2
Signal #1 Info : 0.25 mm
Signal #2 Phase: ZB-XLB-HT
Signal #2 Info : 0.25 mm



Validation Report

1st SM 11/29/20
2nd ^{JA} 12/01/20

Data File: J:\gc24\data\112820\11280047.D\
Lab ID: K2010412-005
RunType: N/A
Matrix: Sediment

Date Acquired: 11/29/20 03:51:00
Batch ID: 705101
Analysis Method: 8151A/HERB

Validations

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

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280047.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 03:51:00	Vial: 54
Run Type: N/A	Dilution: 1
Lab ID: K2010412-005	Raw Units: ppb

Bottle ID: K2010412-005.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/8/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot: 369613	Report Group: K2010412
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 11/11/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	7.99	7.82	1361316	4044802	74.812	95.627	75	96	75	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt
2,4,5-TP	10.26	10.10 ^{-0.04}	3291	540967	0.035	2.665	0.11U	8.2J	4.5 U	Y
2,4-D	9.34 ^{+0.02}	9.04 ^{-0.03}	15663	216818	0.737	4.235	2.3U	13U	15 U	Y

Prep Amount: 30.438 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 53.50

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

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Data File : J:\gc24\data\112820\11280047.D Vial: 55
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 3:51 am Operator: SM
 Sample : K2010412-005 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 11:23:53 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	7.991	7.821	1361316	4044802	74.812	95.627 #
Target Compounds						
1) m Dalapon	3.138	2.878	6624	536835	0.273	11.112 #
3) m Dicamba	8.234	7.938	24373	111957	0.349	0.755 #
4) m MCPP	8.314	8.105	155342	69232	3851.608	N.D. #
5) m MCPA	8.594	8.361	23617	88073	403.347	N.D. #
6) m Dichloroprop	8.968	8.781	53698	52302	2.880	1.254 #
7) m 2,4-D	9.341	9.038	15663	216818	0.737	4.235 #
8) m 2,4,5-TP ...	10.258	10.098	3291	540967	0.035	2.665 #
9) m 2,4,5-T	10.694	10.485	62845	56586	0.762	0.296 #
10) m 2,4-DB	11.268	11.181	9391	102183	0.915	3.522 #
11) m Dinoseb	11.654	11.378f	98469	1081588	1.592	7.909 #

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

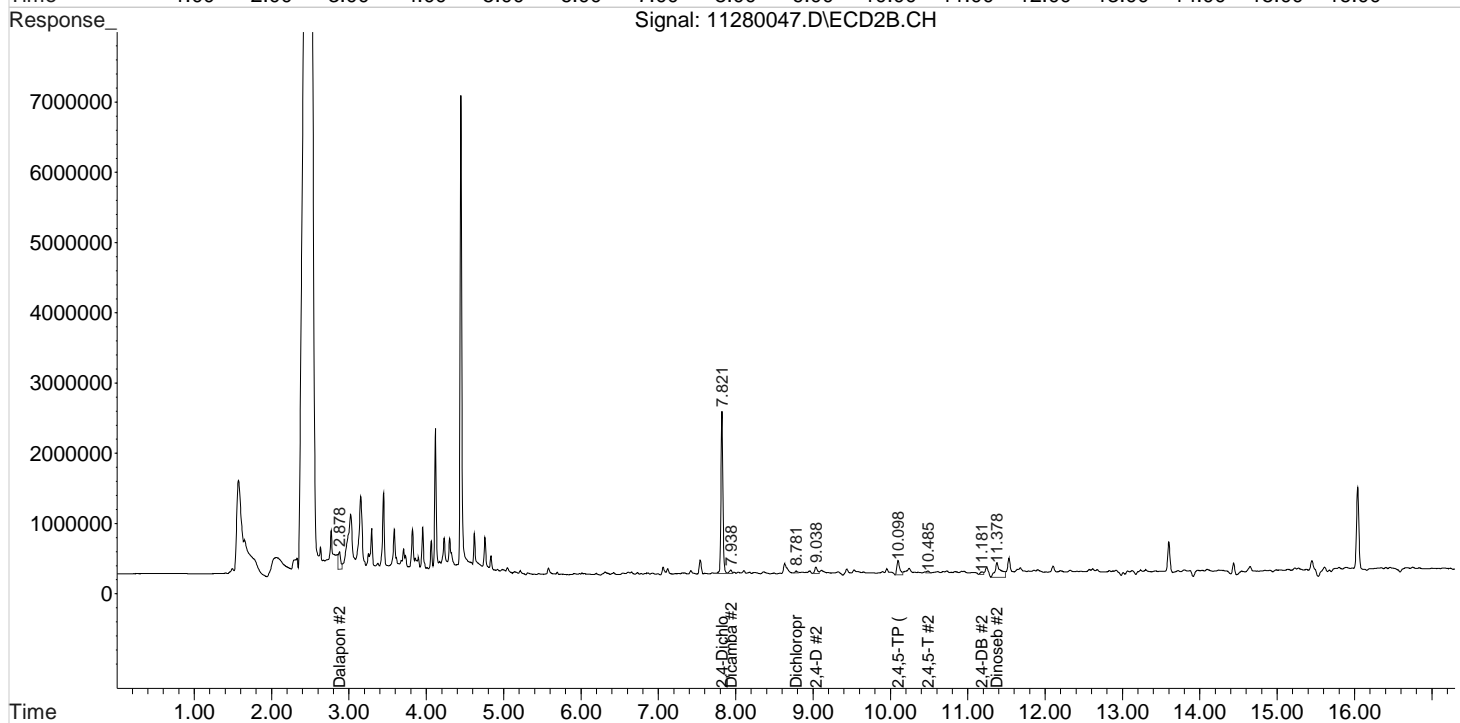
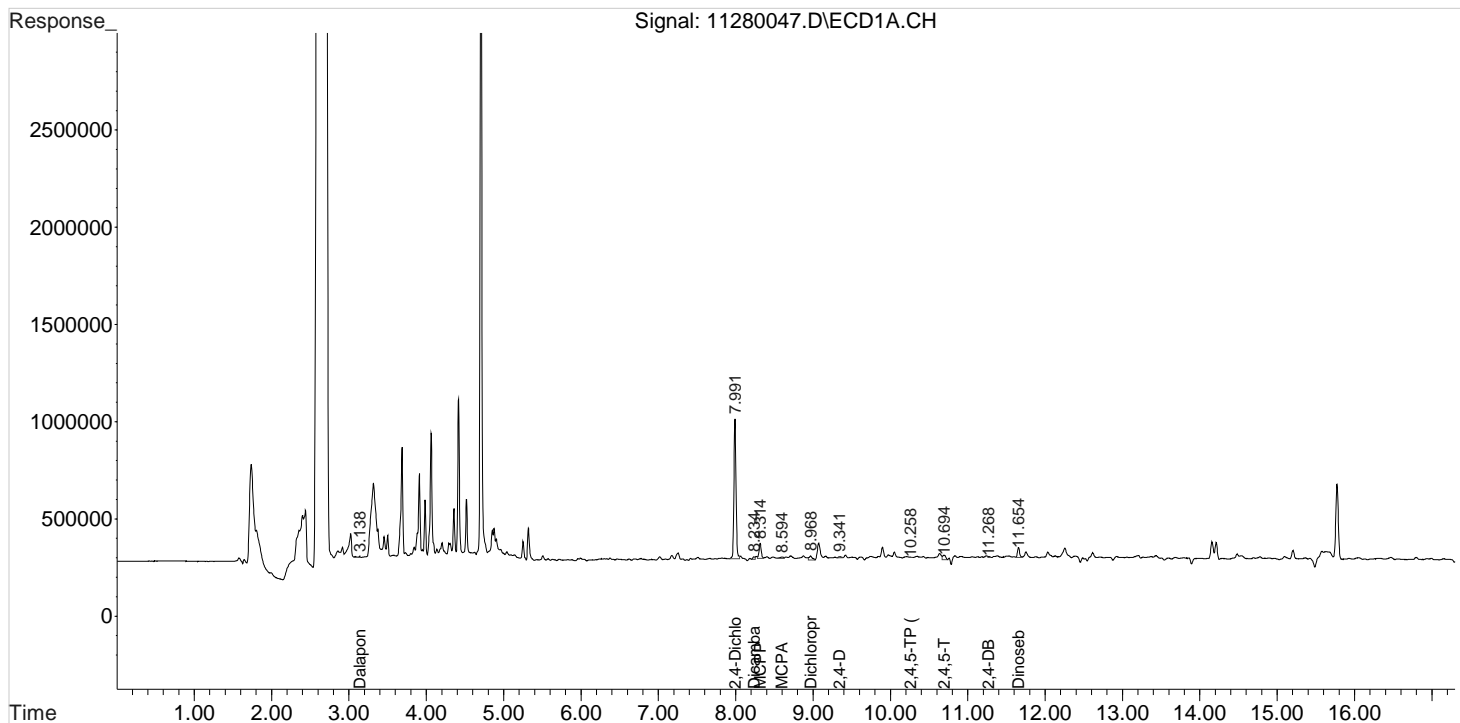
Data File : J:\gc24\data\112820\11280047.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 3:51 am
Sample : K2010412-005
Misc :

Vial: 55
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 11:23:53 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280048.D\
Lab ID: K2010412-006
RunType: N/A
Matrix: Sediment

Date Acquired: 11/29/20 04:14:00
Batch ID: 705101
Analysis Method: 8151A/HERB

Validations

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

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280048.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 04:14:00	Vial: 55
Run Type: N/A	Dilution: 1
Lab ID: K2010412-006	Raw Units: ppb

Bottle ID: K2010412-006.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/8/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot: 369613	Report Group: K2010412
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 11/11/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	7.99	7.82	1157456	3560084	63.608	84.167	64	84	64	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt
2,4,5-TP	10.26	10.14	11309	22635	0.121	0.112	0.27U	0.25U	3.2 U	Y
2,4-D	9.29 ^{-0.03}	9.04 ^{-0.03}	10212	46162	0.481	0.902	1.1U	2.0U	11 U	Y

Prep Amount: 30.106 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 75.00

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:\gc24\data\112820\11280048.D Vial: 56
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 4:14 am Operator: SM
 Sample : K2010412-006 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 11:23:56 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	7.993	7.823	1157456	3560084	63.608	84.167 #
Target Compounds						
1) m Dalapon	3.139	2.880	31840	67820	1.313	1.404
3) m Dicamba	8.213	7.930	33758	102883	0.484	0.694 #
4) m MCPP	8.323	8.110	33395	60549	1227.409	N.D. #
5) m MCPA	8.603	8.366	3143	77937	53.678	N.D. #
6) m Dichloroprop	8.969	8.760	24816	11533	1.331	0.276 #
7) m 2,4-D	9.286	9.043	10212	46162	0.481	0.902 #
8) m 2,4,5-TP ...	10.263	10.136	11309	22635	0.121	0.112
9) m 2,4,5-T	10.706	10.546	12033	35464	0.146	0.185 #
10) m 2,4-DB	11.259	11.183	41037	28963	4.000	0.998 #
11) m Dinoseb	11.659	11.340	84816	71628	1.371	0.524 #

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

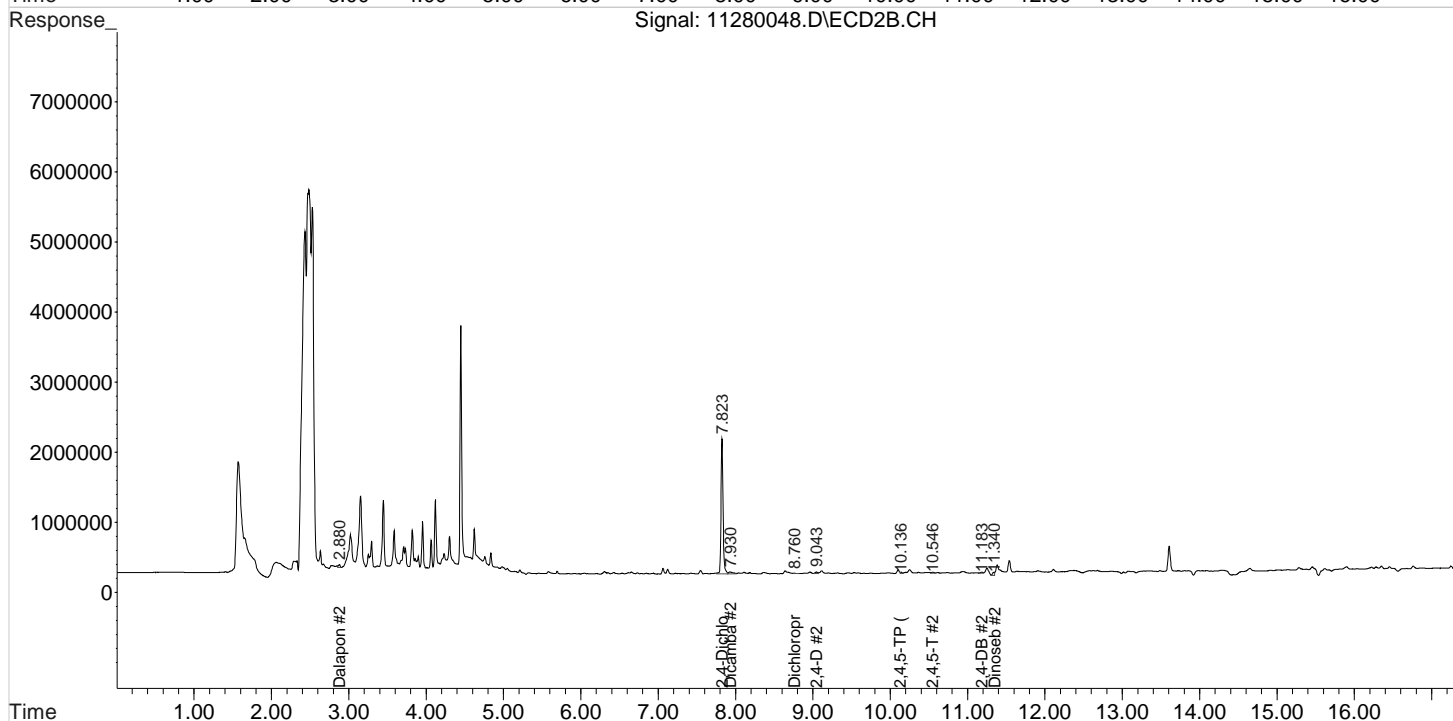
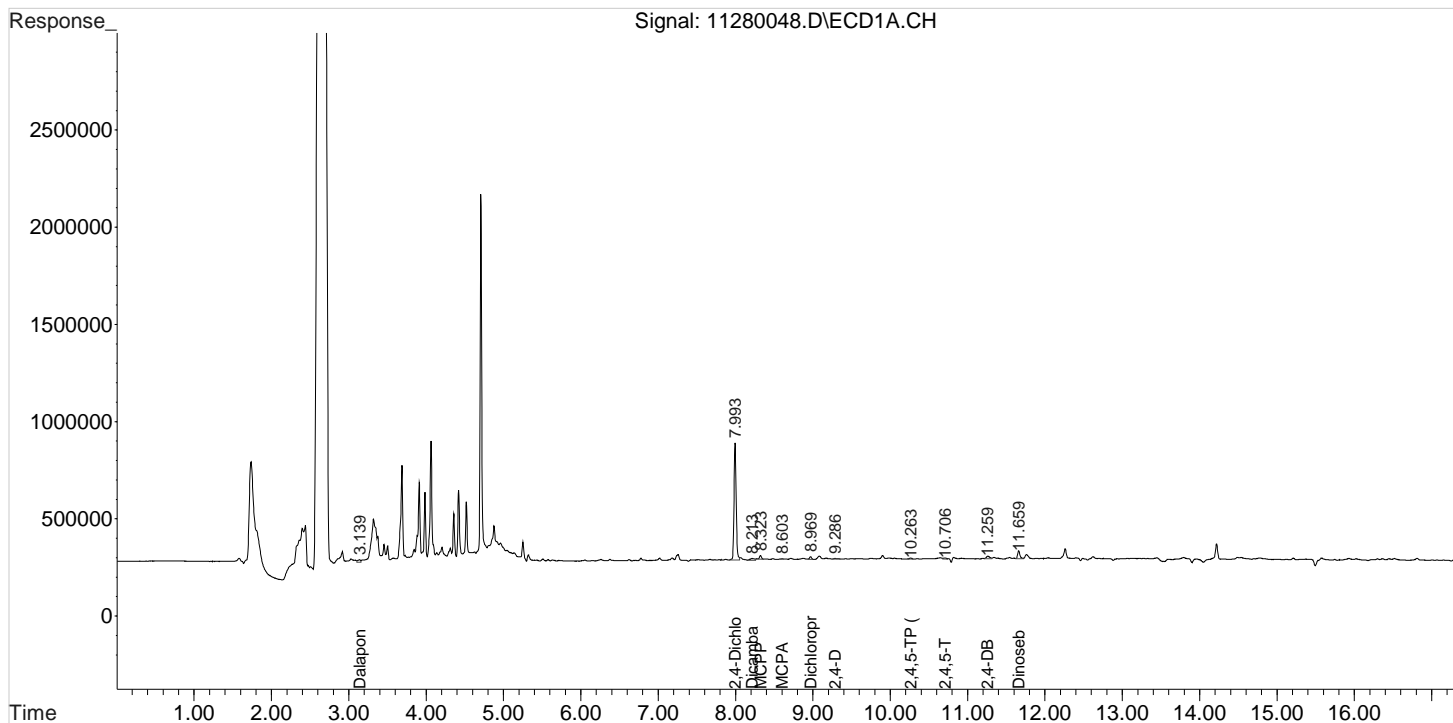
Data File : J:\gc24\data\112820\11280048.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 4:14 am
Sample : K2010412-006
Misc :

Vial: 56
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 11:23:56 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280051.D\
Lab ID: K2010412-007
RunType: N/A
Matrix: Sediment

Date Acquired: 11/29/20 05:22:00
Batch ID: 705101
Analysis Method: 8151A/HERB

Validations

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

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280051.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 05:22:00	Vial: 56
Run Type: N/A	Dilution: 1
Lab ID: K2010412-007	Raw Units: ppb

Bottle ID: K2010412-007.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/8/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot: 369613	Report Group: K2010412
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 11/11/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.00 ^{+0.01}	7.83 ^{+0.01}	1057962	3353130	58.141	79.274	58	79	58	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	10.27 ^{+0.02}	10.13	11387	123119	0.122	0.607	0.27U	1.3U	3.2 U	Y
2,4-D	9.35 ^{+0.03}	9.05 ^{-0.01}	6995	89278	0.329	1.744	0.73U	3.9U	11 U	Y

Prep Amount: 30.070 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 75.30

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:\gc24\data\112820\11280051.D Vial: 57
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 5:22 am Operator: SM
 Sample : K2010412-007 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 18:59:39 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.999	7.829	1057962	3353130	58.141	79.274 #
Target Compounds						
1) m Dalapon	3.139	2.879	27456	782623	1.132	16.199 #
3) m Dicamba	8.205	7.949	25383	186200	0.364	1.256 #
4) m MCPP	8.275	8.115	17683	212034	889.300	46.697 #
5) m MCPA	8.602	8.369	23276	95893	397.523	N.D. #
6) m Dichloroprop	8.975	8.789	20753	25447	1.113	0.610 #
7) m 2,4-D	9.352	9.045	6995	89278	0.329m	1.744 #
8) m 2,4,5-TP ...	10.272	10.125	11387	123119	0.122	0.607 #
9) m 2,4,5-T	10.702	10.549	39772	5273	0.482	0.028 #
10) m 2,4-DB	11.285	11.189	10693	13242	1.042	0.456 #
11) m Dinoseb	11.665	11.252f	75495	391357	1.220	2.862 #

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

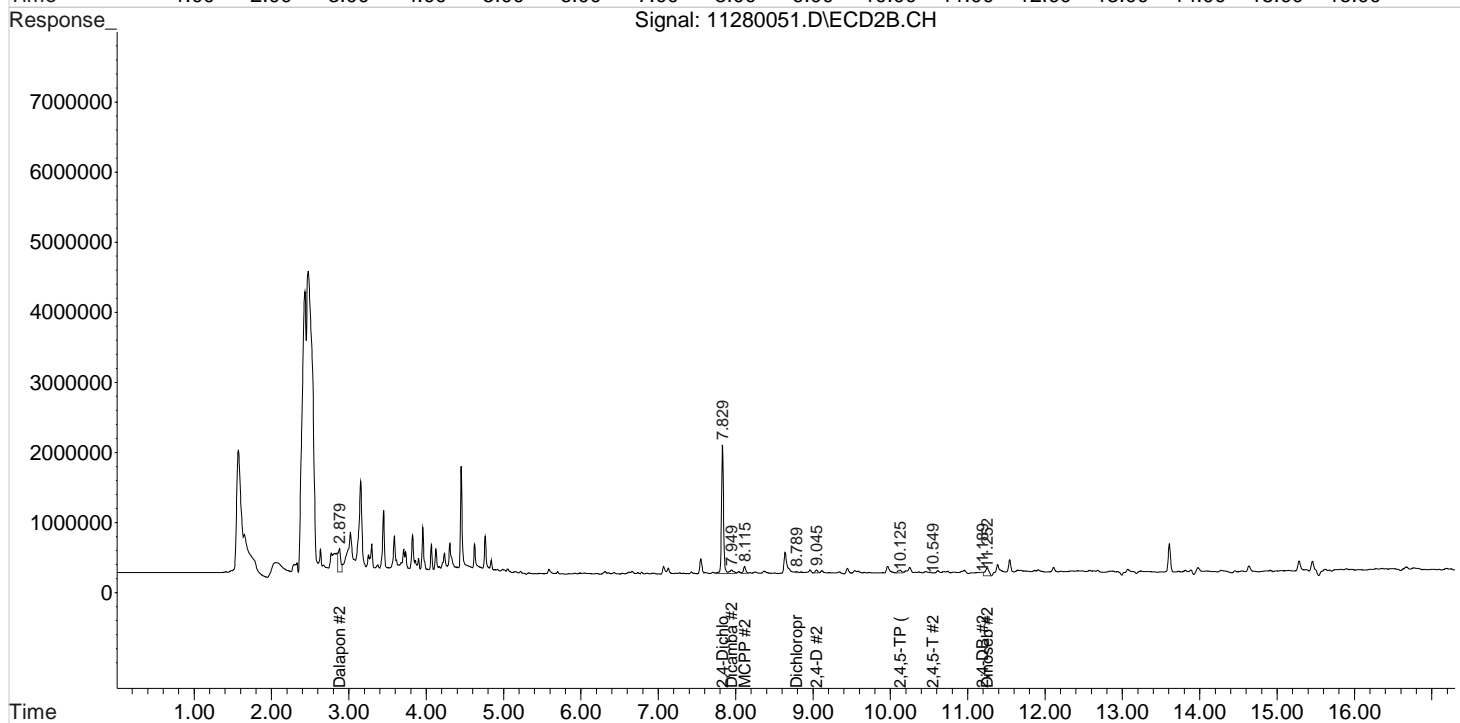
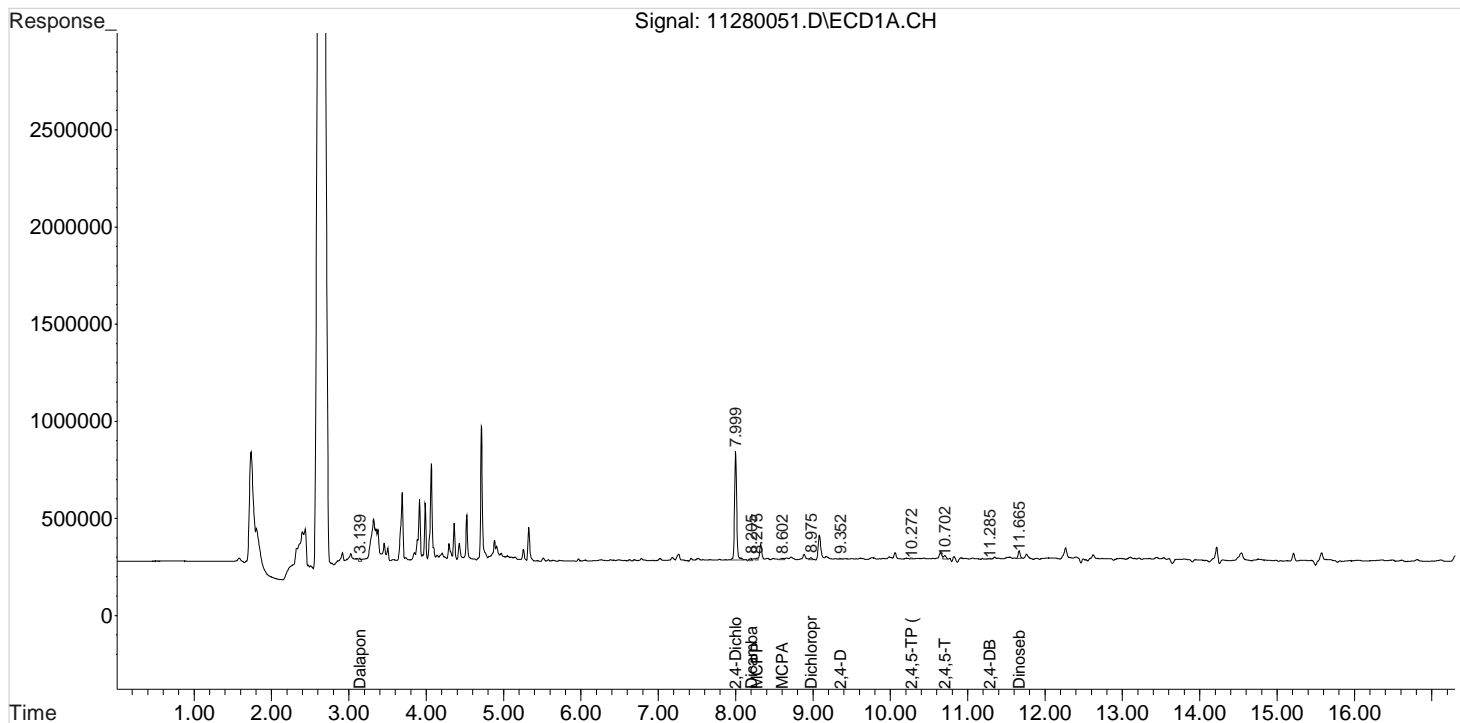
Data File : J:\gc24\data\112820\11280051.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 5:22 am
Sample : K2010412-007
Misc :

Vial: 57
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 18:59:39 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

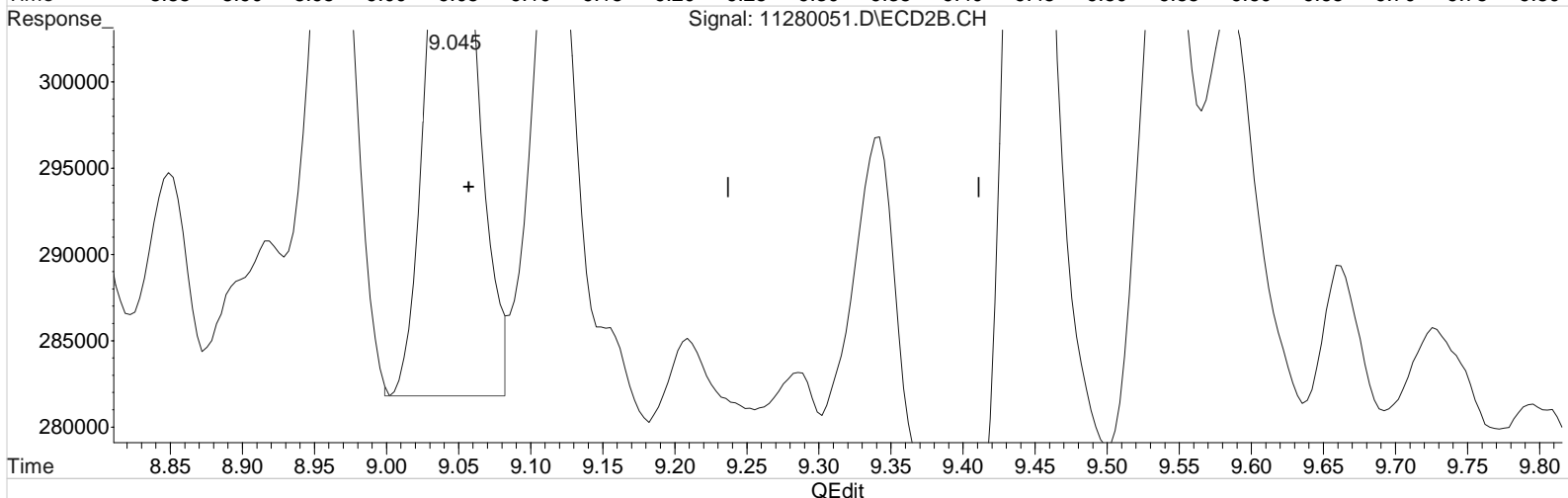
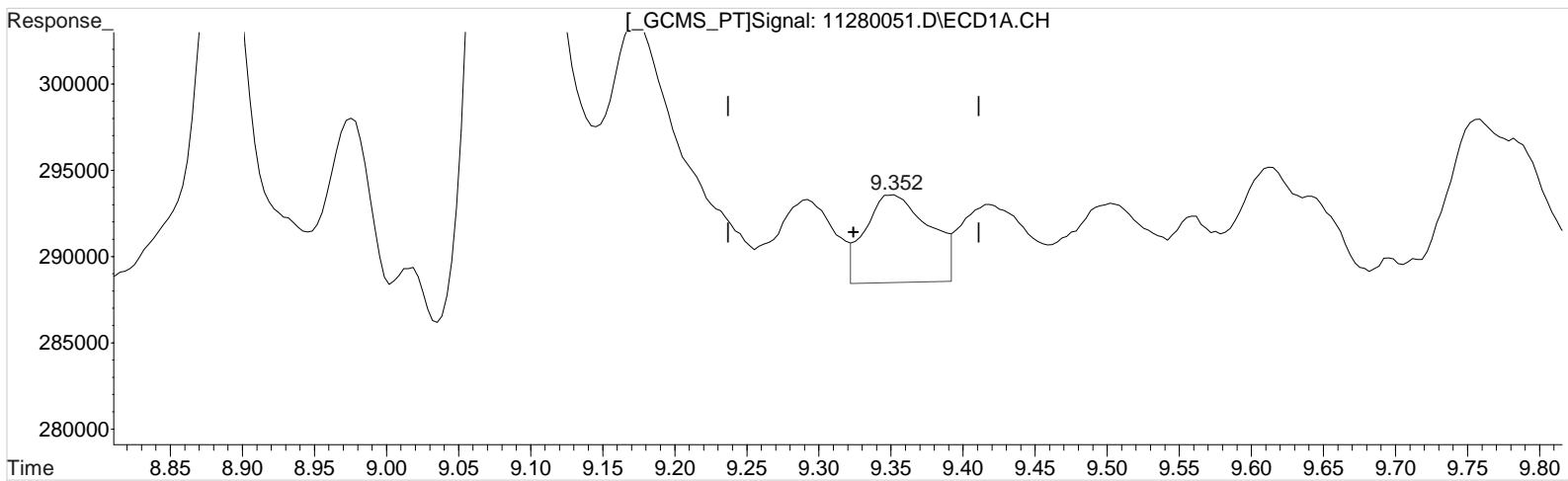
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\112820\11280051.D Vial: 57
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 5:22 am Operator: SM
Sample : K2010412-007 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 11:24:05 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(7) 2,4-D (m)
9.352min 0.745 ppb
response 15827

Manual Integration:
Before
11/29/20

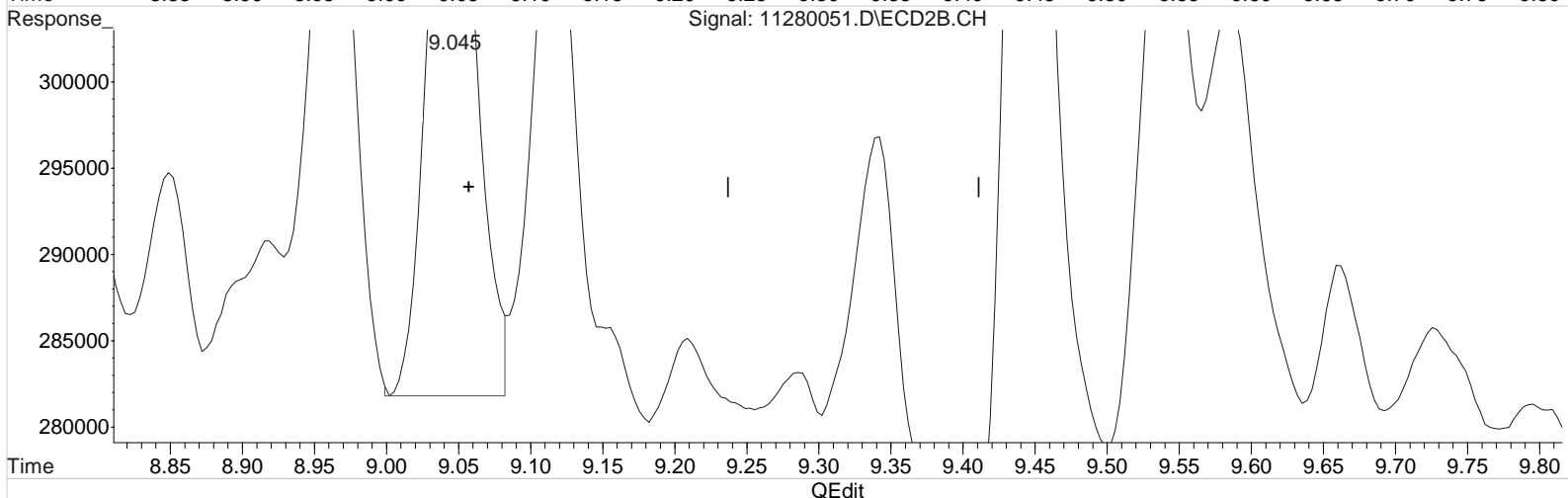
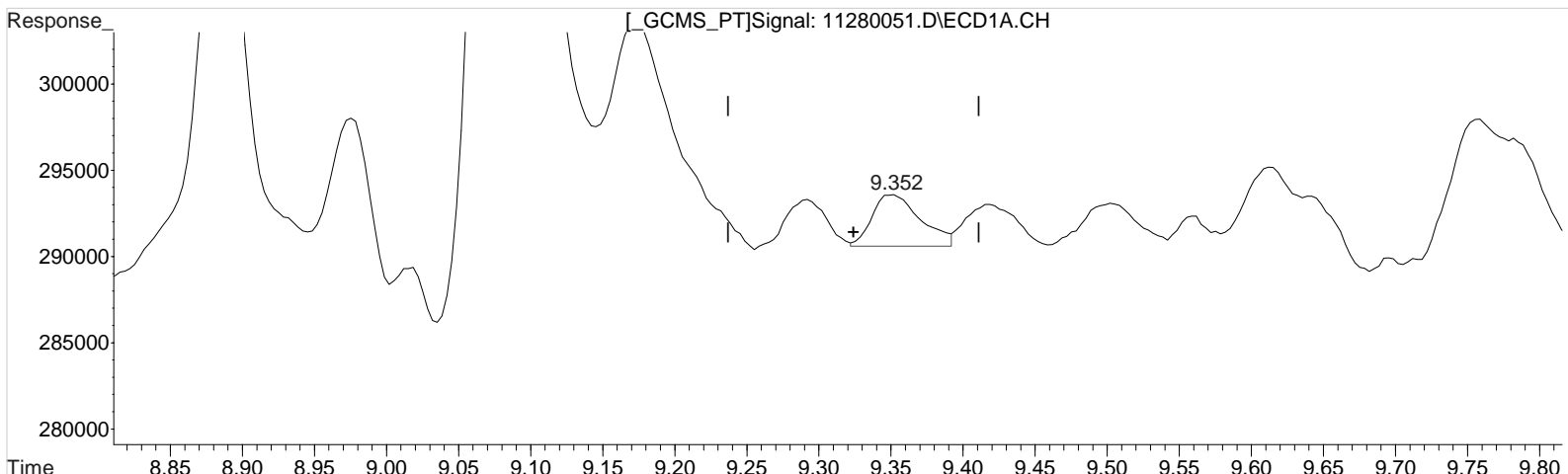
(7) 2,4-D #2 (m)
9.045min 1.744 ppb
response 89278

Data File : J:\gc24\data\112820\11280051.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 5:22 am
Sample : K2010412-007
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 11:24:05 2020
Quant Results File: 102120_8151.RES

Vial: 57
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2
Signal #1 Info : 0.25 mm
Signal #2 Phase: ZB-XLB-HT
Signal #2 Info : 0.25 mm



(7) 2,4-D (m)
9.352min 0.329 ppb m
response 6995

(7) 2,4-D #2 (m)
9.045min 1.744 ppb
response 89278

Manual Integration:
After
Baseline/Shoulder
11/29/20

Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280052.D\
Lab ID: K2010412-008
RunType: N/A
Matrix: Sediment

Date Acquired: 11/29/20 05:45:00
Batch ID: 705101
Analysis Method: 8151A/HERB

Validations

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

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280052.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 05:45:00	Vial: 57
Run Type: N/A	Dilution: 1
Lab ID: K2010412-008	Raw Units: ppb

Bottle ID: K2010412-008.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/8/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot: 369613	Report Group: K2010412
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 11/11/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.00 ^{+0.01}	7.83 ^{+0.01}	1261765	3876134	69.341	91.639	69	92	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	10.27 ^{+0.02}	10.10 ^{-0.03}	4063	83213	0.043	0.410	0.093U	0.88U	3.1 U	Y
2,4-D	9.30 ^{-0.02}	9.05 ^{-0.01}	17928	58460	0.844	1.142	1.8U	2.5U	10 U	Y

Prep Amount: 30.095 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 77.20

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

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Data File : J:\gc24\data\112820\11280052.D Vial: 58
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 5:45 am Operator: SM
 Sample : K2010412-008 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 11:24:08 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	8.000	7.830	1261765	3876134	69.341	91.639 #
Target Compounds						
1) m Dalapon	3.140	2.880	6419	123018	0.265	2.546 #
3) m Dicamba	8.210	7.917	10798	45510	0.155	0.307 #
4) m MCPP	8.283	8.113	10831	21902	741.851	N.D. #
5) m MCPA	8.573	8.367	6998	63671	119.517	N.D. #
6) m Dichloroprop	8.977	8.847f	24346	2975	1.306	0.071 #
7) m 2,4-D	9.300	9.047	17928	58460	0.844	1.142 #
8) m 2,4,5-TP ...	10.270	10.103	4063	83213	0.043	0.410 #
9) m 2,4,5-T	10.707	10.510	10649	188754	0.129	0.986 #
10) m 2,4-DB	11.260	11.187	52159	23101	5.084	0.796 #
11) m Dinoseb	11.663	11.250f	88093	320927	1.424	2.347 #

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

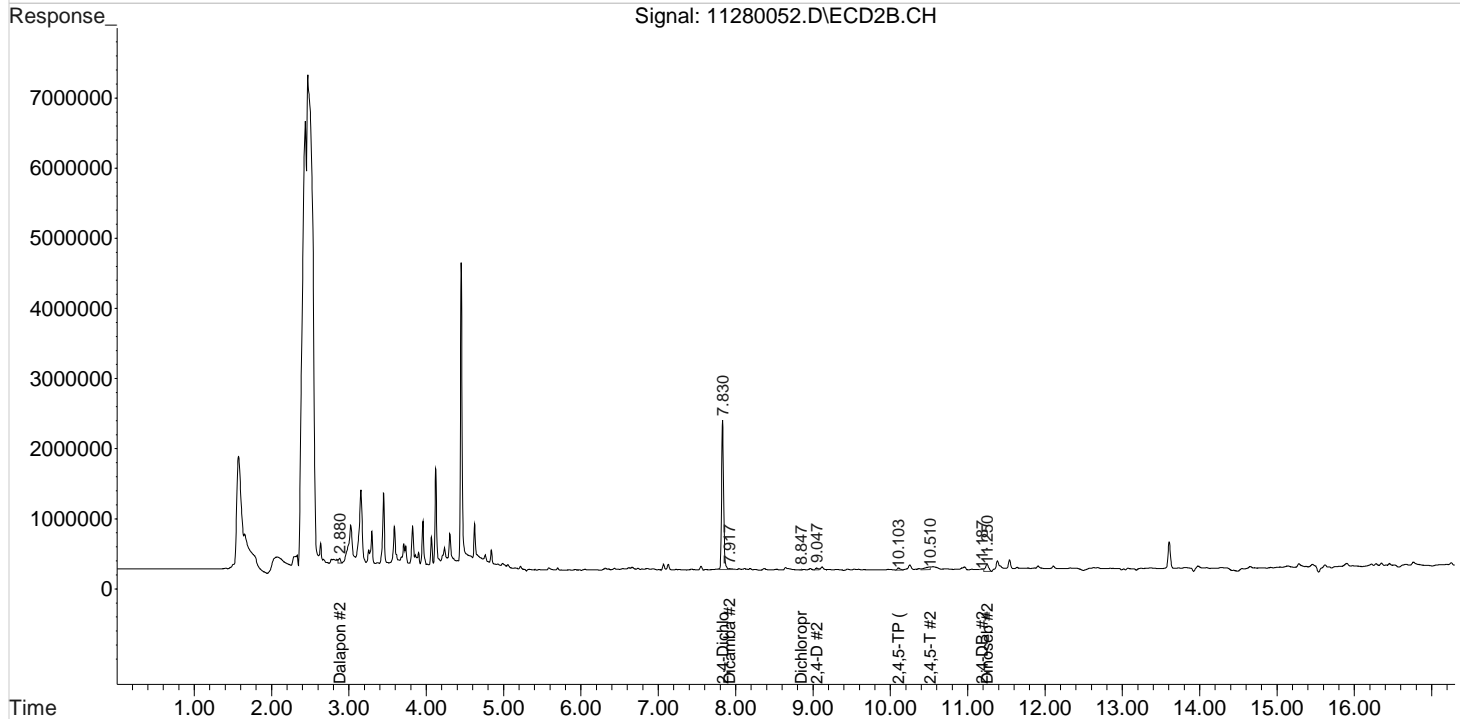
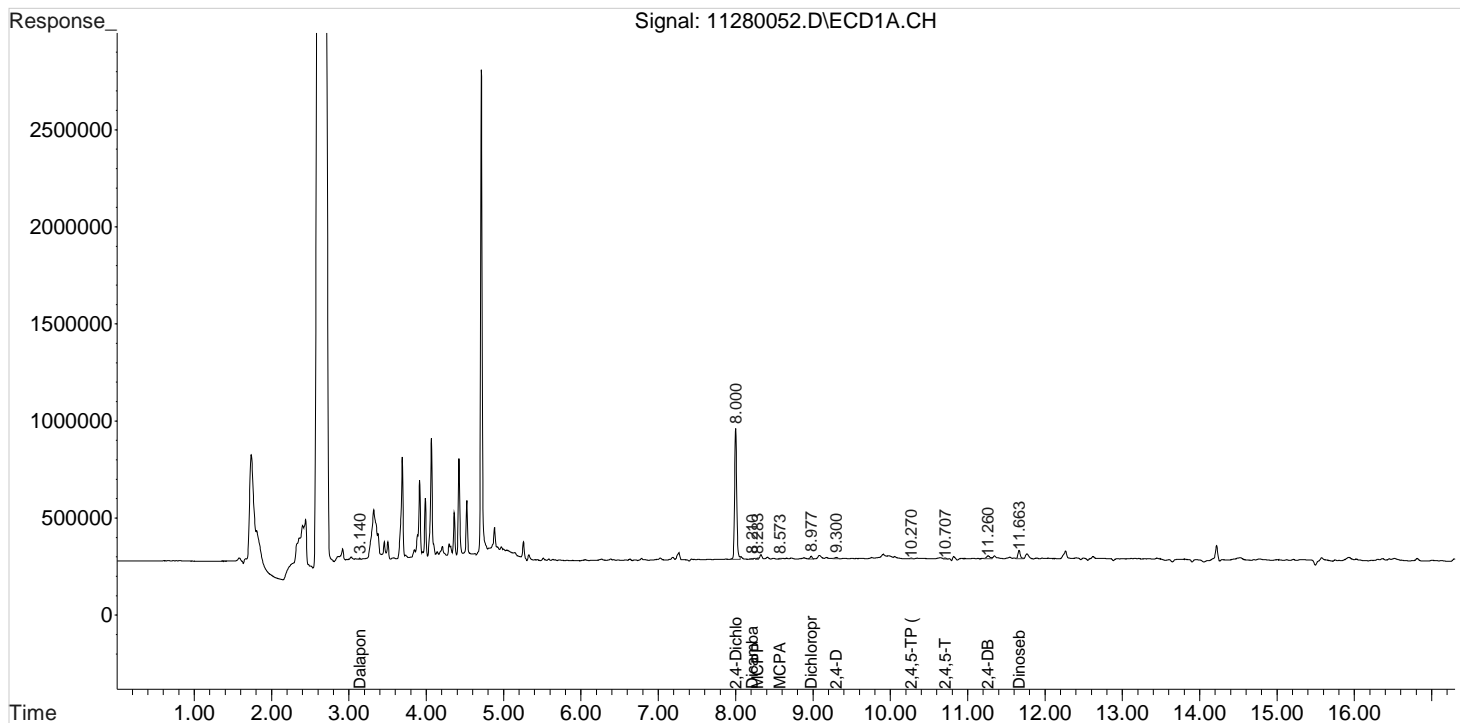
Data File : J:\gc24\data\112820\11280052.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 5:45 am
Sample : K2010412-008
Misc :

Vial: 58
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 11:24:08 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280053.D\
Lab ID: K2010412-009
RunType: N/A
Matrix: Sediment

Date Acquired: 11/29/20 06:08:00
Batch ID: 705101
Analysis Method: 8151A/HERB

Validations

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

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280053.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 06:08:00	Vial: 58
Run Type: N/A	Dilution: 1
Lab ID: K2010412-009	Raw Units: ppb

Bottle ID: K2010412-009.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/8/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot: 369613	Report Group: K2010412
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 11/11/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.00 ^{+0.01}	7.83 ^{+0.01}	1198654	3758282	65.872	88.853	66	89	66	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	10.27 ^{+0.02}	10.10 ^{-0.03}	7786	121815	0.083	0.600	0.16U	1.2U	2.8 U	Y
2,4-D	9.30 ^{-0.02}	9.05 ^{-0.01}	13855	54943	0.652	1.073	1.3U	2.1U	9.0 U	Y

Prep Amount: 30.158 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 85.30

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:\gc24\data\112820\11280053.D Vial: 59
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 6:08 am Operator: SM
 Sample : K2010412-009 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 19:00:12 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.998	7.831	1198654	3758282	65.872	88.853 #
Target Compounds						
1) m Dalapon	3.138	2.878	5290	174769	0.218	3.617 #
3) m Dicamba	8.221	7.948	29441	150486	0.422	1.015 #
4) m MCPP	8.281	8.115	9468	94769	712.520	N.D. #
5) m MCPA	8.601	8.368	5704	82747	97.417	N.D. #
6) m Dichloroprop	8.975	8.781	23037	35686	1.235	0.855 #
7) m 2,4-D	9.298	9.048	13855	54943	0.652	1.073m#
8) m 2,4,5-TP ...	10.268	10.105	7786	121815	0.083	0.600 #
9) m 2,4,5-T	10.701	10.555	19387	12706	0.235	0.066 #
10) m 2,4-DB	11.255	11.188	41411	30217	4.036	1.041 #
11) m Dinoseb	11.661	11.251f	123693	361369	1.999	2.642 #

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

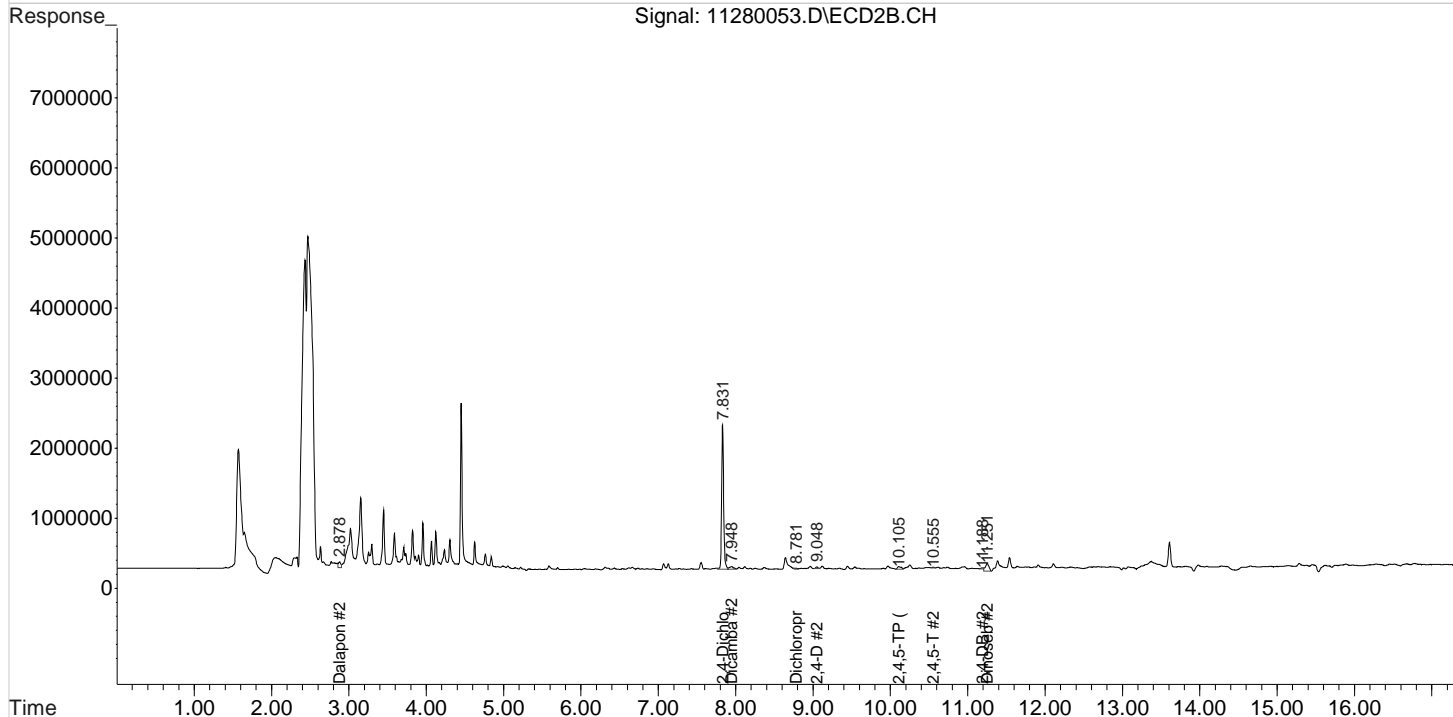
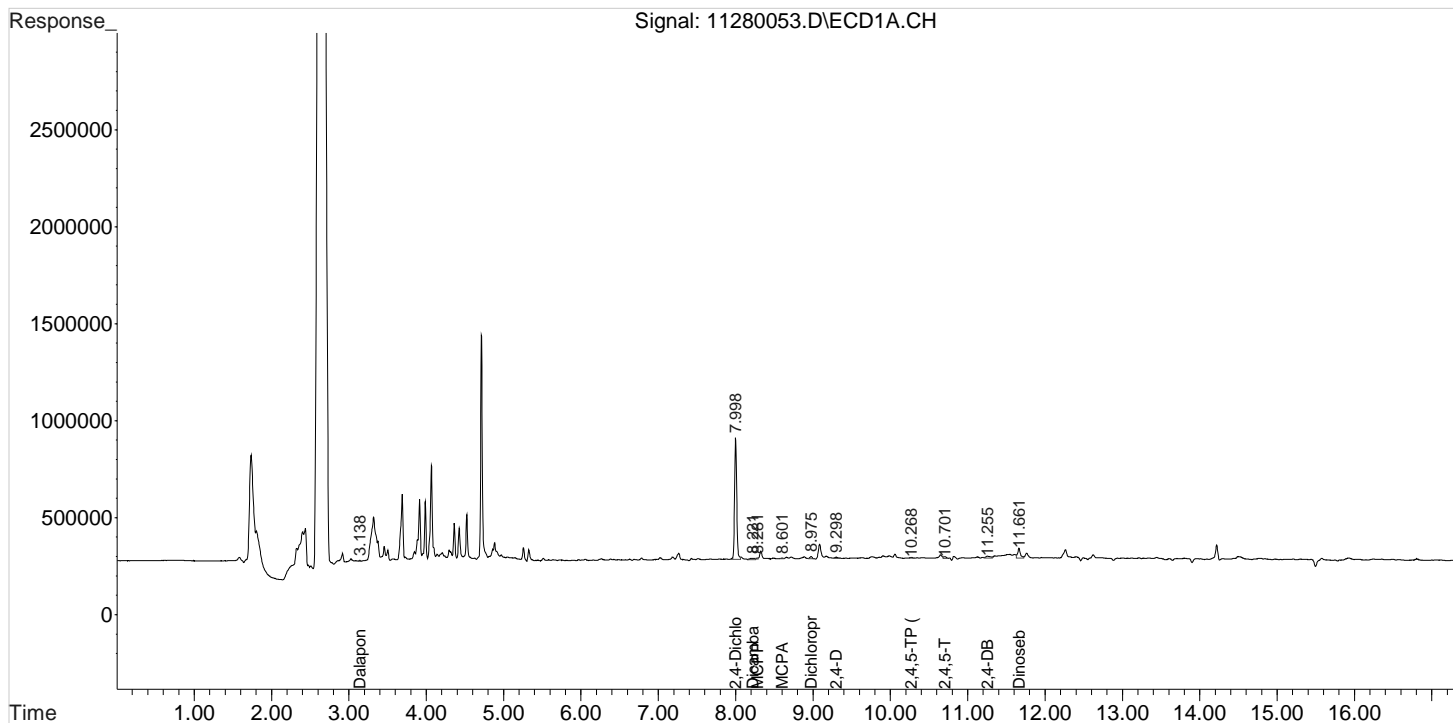
Data File : J:\gc24\data\112820\11280053.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 6:08 am
Sample : K2010412-009
Misc :

Vial: 59
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 19:00:12 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

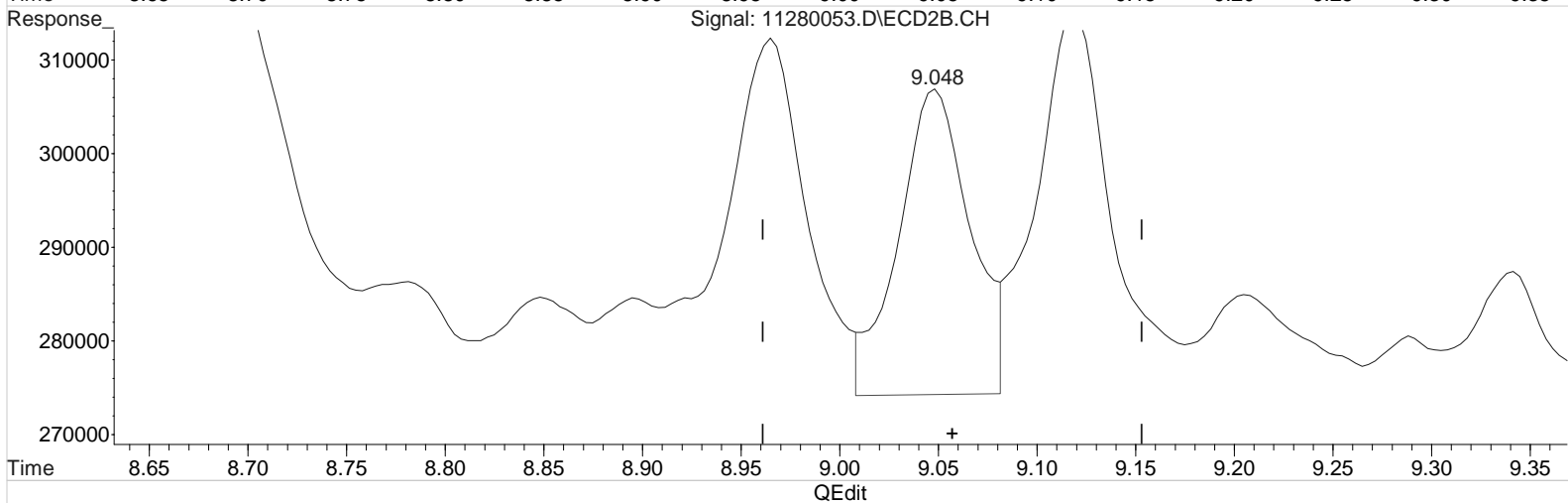
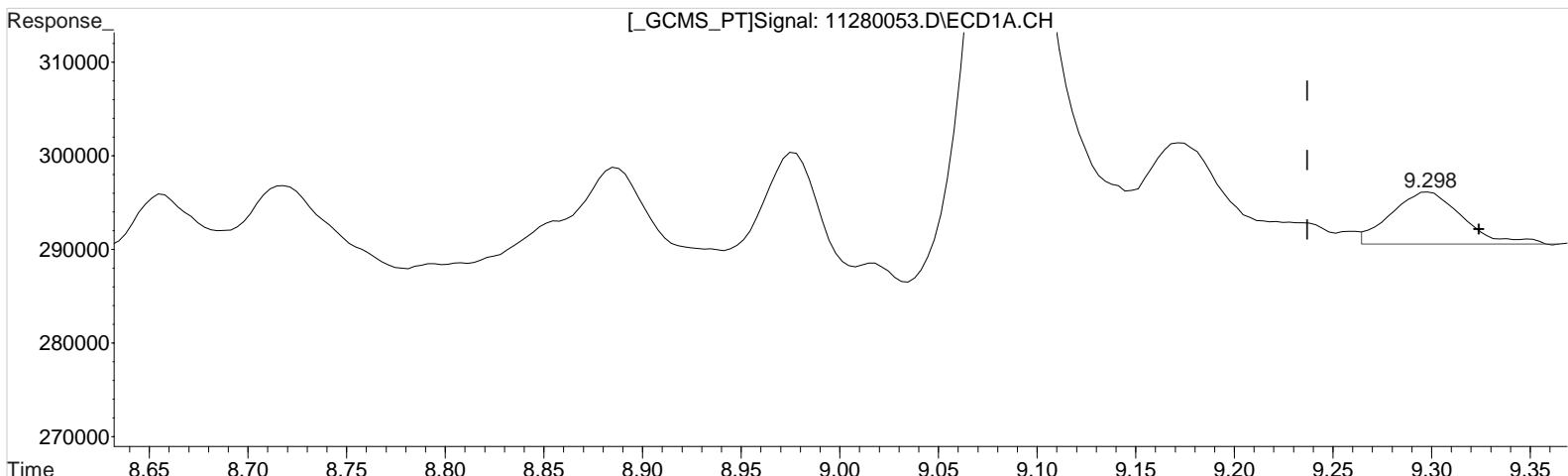
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2
Signal #1 Info : 0.25 mm
Signal #2 Phase: ZB-XLB-HT
Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\112820\11280053.D Vial: 59
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 6:08 am Operator: SM
Sample : K2010412-009 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 11:24:11 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(7) 2,4-D (m)

9.298min 0.652 ppb
response 13855

(7) 2,4-D #2 (m)

9.048min 1.620 ppb
response 82962

Manual Integration:

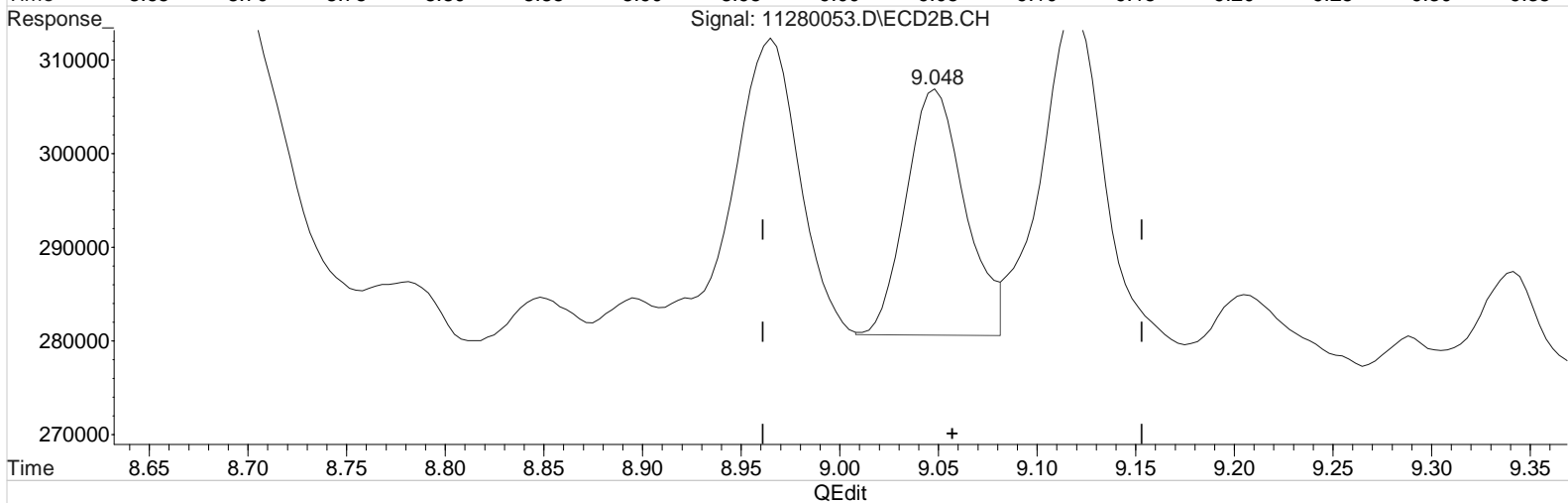
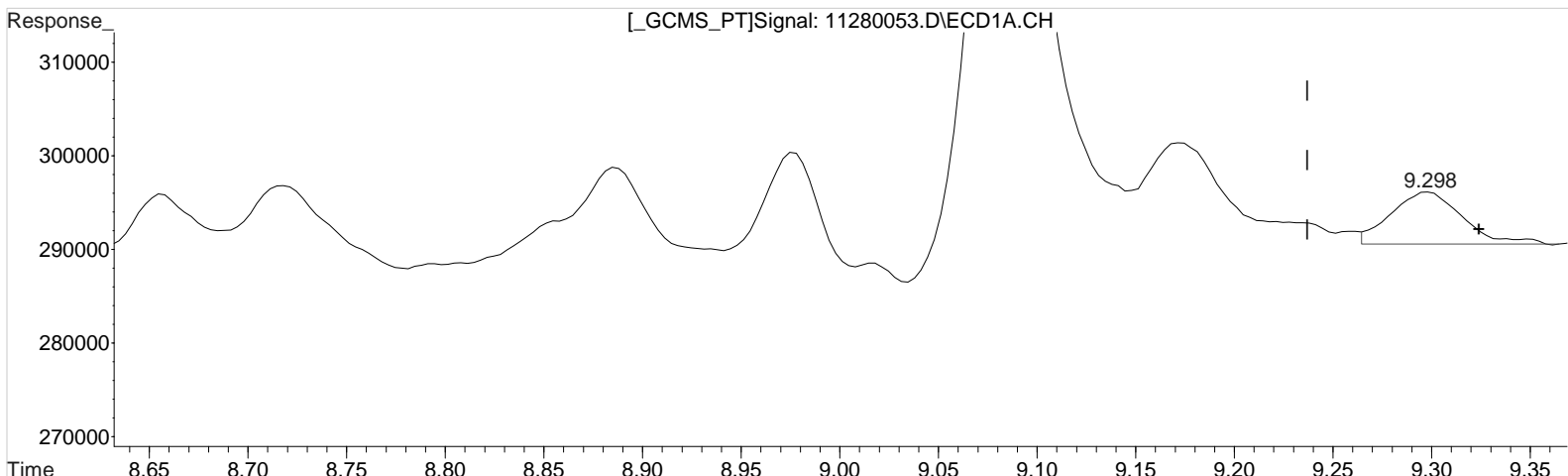
Before

11/29/20

Data File : J:\gc24\data\112820\11280053.D Vial: 59
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 6:08 am Operator: SM
Sample : K2010412-009 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 11:24:11 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(7) 2,4-D (m)

9.298min 0.652 ppb
response 13855

(7) 2,4-D #2 (m)

9.048min 1.073 ppb m
response 54943

Manual Integration:
After
Baseline/Shoulder
11/29/20

Validation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280054.D\
Lab ID: K2010412-010
RunType: N/A
Matrix: Sediment

Date Acquired: 11/29/20 06:31:00
Batch ID: 705101
Analysis Method: 8151A/HERB

Validations

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

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280054.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 06:31:00	Vial: 59
Run Type: N/A	Dilution: 1
Lab ID: K2010412-010	Raw Units: ppb

Bottle ID: K2010412-010.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/8/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot: 369613	Report Group: K2010412
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 11/11/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.00 ^{+0.01}	7.83 ^{+0.01}	1502896	4749728	82.592	112.292	83	112	83	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	10.27 ^{+0.02}	10.10 ^{-0.03}	4592	94613	0.049	0.466	0.11U	1.0U	3.2 U	Y
2,4-D	9.30 ^{-0.02}	9.05 ^{-0.01}	16108	45512	0.758	0.889	1.7U	1.9U	11 U	Y

Prep Amount: 30.092 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: 12/2/20 14:54

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Data File : J:\gc24\data\112820\11280054.D Vial: 60
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 6:31 am Operator: SM
 Sample : K2010412-010 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 11:24:14 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.997	7.831	1502896	4749728	82.592	112.292 #
Target Compounds						
1) m Dalapon	3.137	2.881	8260	295851	0.340	6.124 #
3) m Dicamba	8.207	7.914	10920	37626	0.156	0.254 #
4) m MCPP	8.284	8.114	12470	32679	777.121	N.D. #
5) m MCPA	8.617f	8.368	11681	62455	199.496	N.D. #
6) m Dichloroprop	8.974	8.741	47867	3895	2.567	0.093 #
7) m 2,4-D	9.301	9.048	16108	45512	0.758	0.889
8) m 2,4,5-TP ...	10.274	10.104	4592	94613	0.049	0.466 #
9) m 2,4,5-T	10.717	10.554	1811	87587	0.022	0.458 #
10) m 2,4-DB	11.257	11.184	37715	31634	3.676	1.090 #
11) m Dinoseb	11.664	11.254f	96597	297332	1.561	2.174 #

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

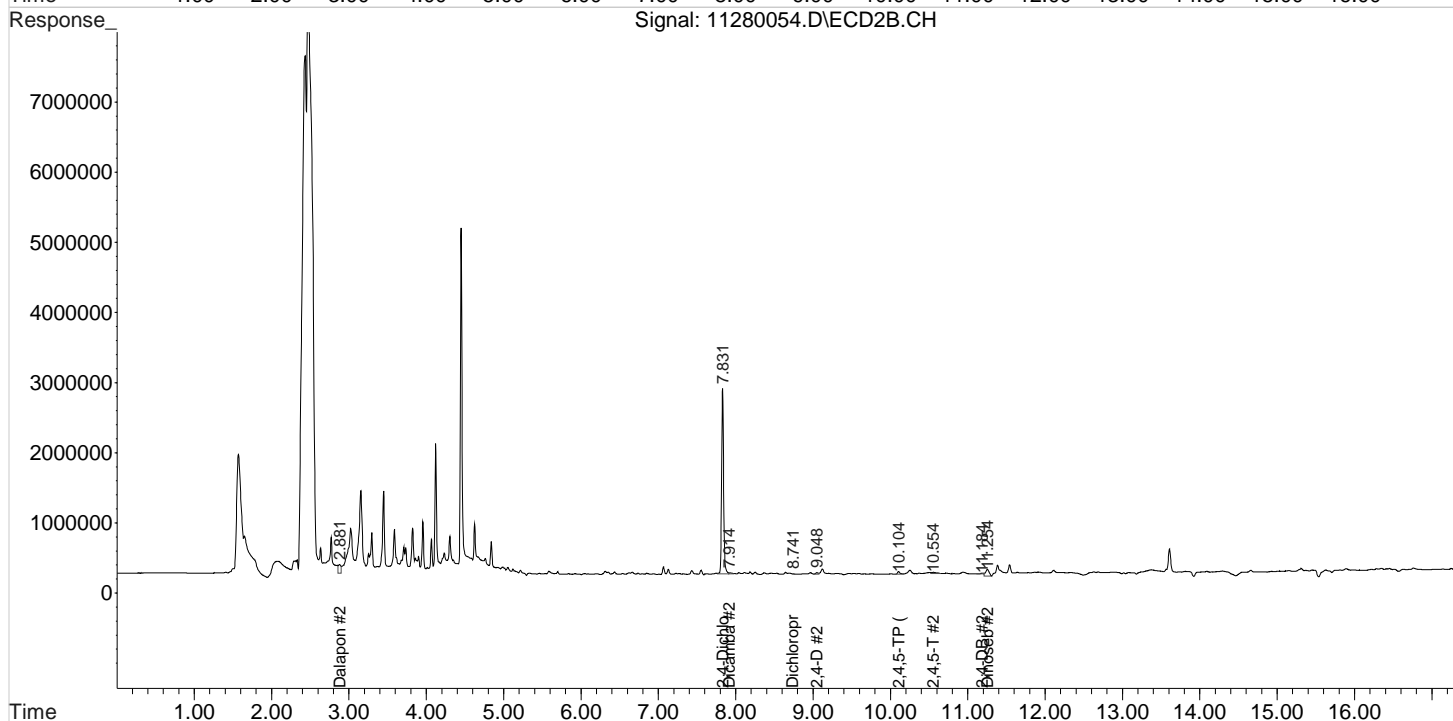
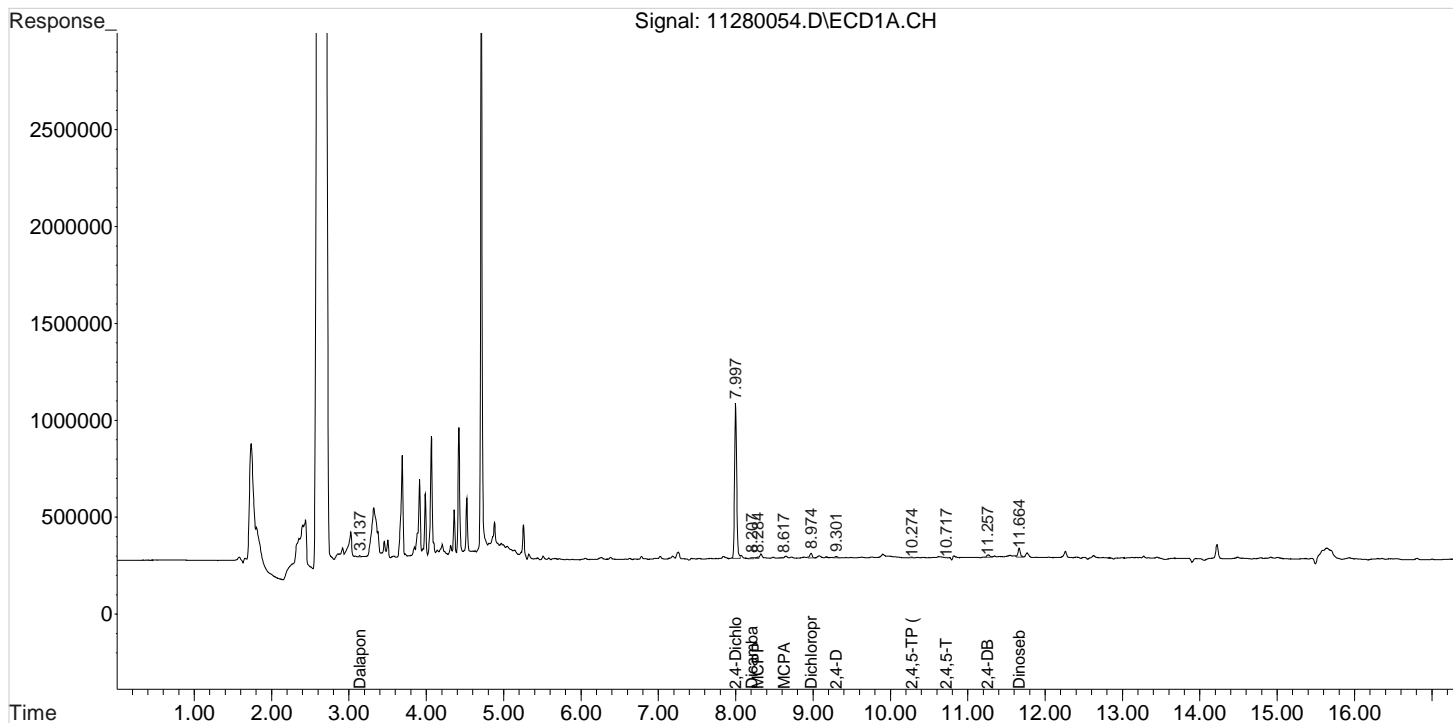
Data File : J:\gc24\data\112820\11280054.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 6:31 am
Sample : K2010412-010
Misc :

Vial: 60
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 11:24:14 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280055.D\
Lab ID: K2010412-011
RunType: N/A
Matrix: Sediment

Date Acquired: 11/29/20 06:54:00
Batch ID: 705101
Analysis Method: 8151A/HERB

Validations

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

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280055.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 06:54:00	Vial: 60
Run Type: N/A	Dilution: 1
Lab ID: K2010412-011	Raw Units: ppb

Bottle ID: K2010412-011.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/8/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot: 369613	Report Group: K2010412
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 11/11/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.00 ^{+0.01}	7.83 ^{+0.01}	1428459	4356665	78.501	103.000	79	103	79	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	10.28 ^{+0.03}	10.11 ^{-0.02}	6773	75332	0.072	0.371	0.16U	0.82U	3.2 U	Y
2,4-D	9.29 ^{-0.03}	9.05 ^{-0.01}	7931	45543	0.373	0.890	0.83U	2.0U	11 U	Y

Prep Amount: 30.297 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 74.50

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: 12/2/20 14:54

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Data File : J:\gc24\data\112820\11280055.D Vial: 61
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 6:54 am Operator: SM
 Sample : K2010412-011 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 11:24:17 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	8.002	7.829	1428459	4356665	78.501	103.000 #
Target Compounds						
1) m Dalapon	3.139	2.882	6002	152083	0.247	3.148 #
3) m Dicamba	8.222	7.926	11180	65211	0.160	0.440 #
4) m MCPP	8.279	8.116	1238	45119	535.417	N.D. #
5) m MCPA	8.605	8.369	2375	62439	40.562	N.D. #
6) m Dichloroprop	8.979	8.692f	29471	21233	1.580	0.509 #
7) m 2,4-D	9.289	9.052	7931	45543	0.373	0.890 #
8) m 2,4,5-TP ...	10.275	10.106	6773	75332	0.072	0.371 #
9) m 2,4,5-T	10.715	10.502	3447	5142	0.042	0.027 #
10) m 2,4-DB	11.262	11.186	53100	21809	5.176	0.752 #
11) m Dinoseb	11.665	11.256f	84837	293393	1.371	2.145 #

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

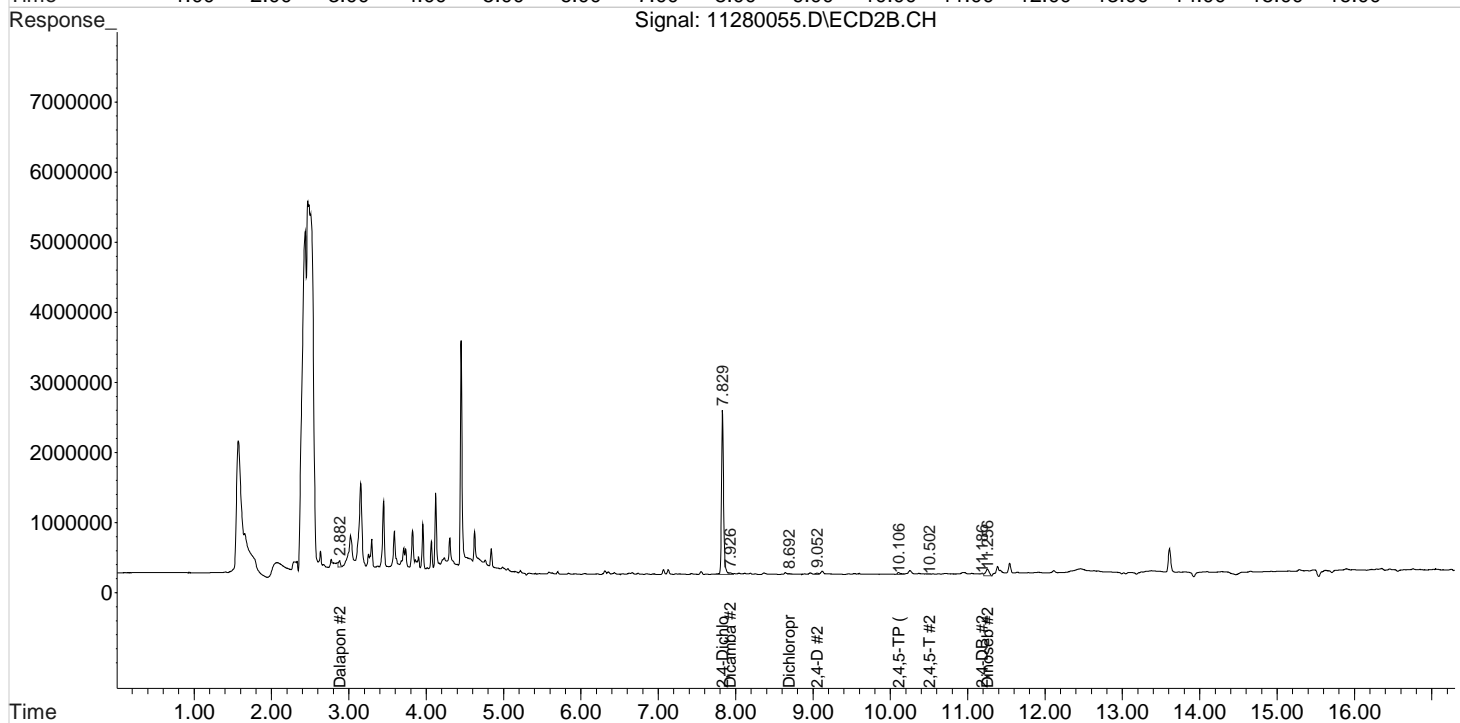
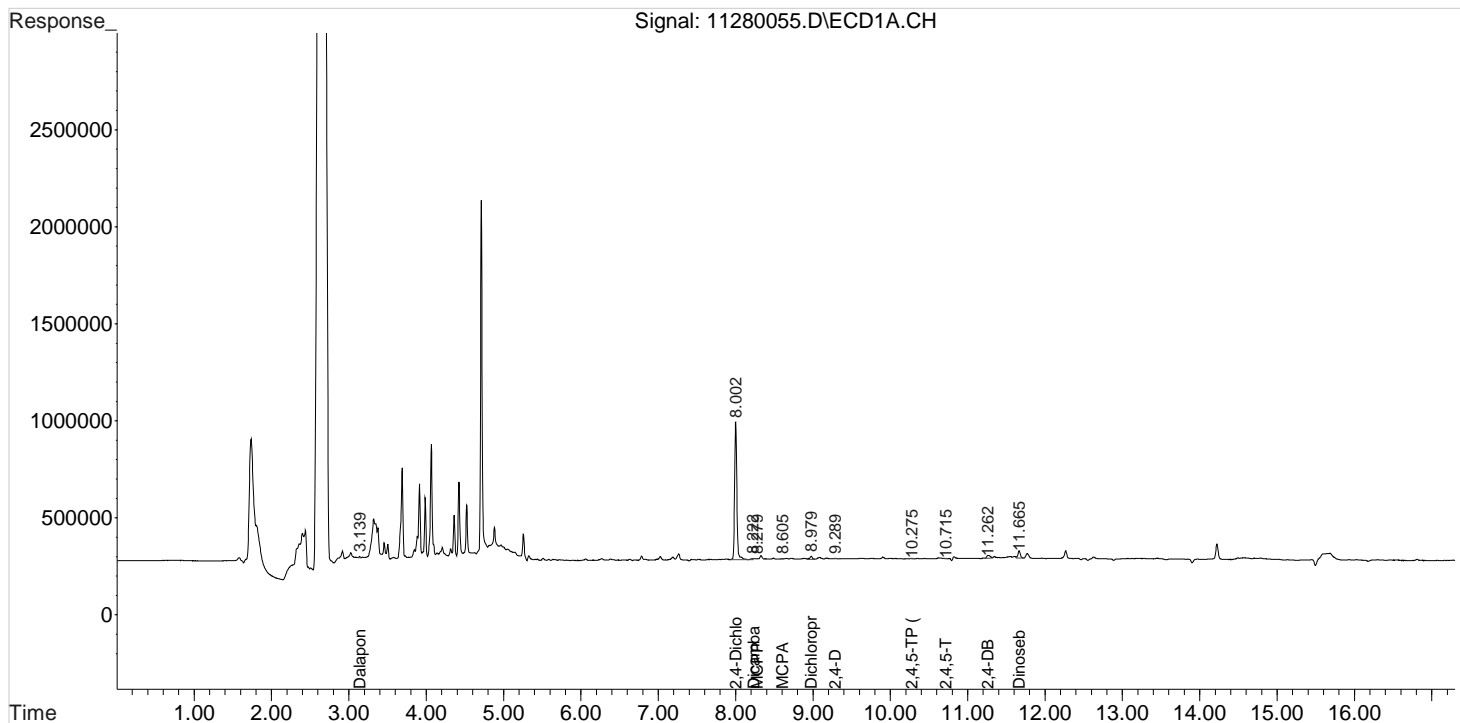
Data File : J:\gc24\data\112820\11280055.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 6:54 am
Sample : K2010412-011
Misc :

Vial: 61
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 11:24:17 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280056.D\
Lab ID: K2010412-012
RunType: N/A
Matrix: Sediment

Date Acquired: 11/29/20 07:17:00
Batch ID: 705101
Analysis Method: 8151A/HERB

Validations

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

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280056.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 07:17:00	Vial: 61
Run Type: N/A	Dilution: 1
Lab ID: K2010412-012	Raw Units: ppb

Bottle ID: K2010412-012.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/8/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot: 369613	Report Group: K2010412
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 11/11/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.00 ^{+0.01}	7.83 ^{+0.01}	1472217	4535940	80.906	107.238	81	107	81	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt
2,4,5-TP	10.27 ^{+0.02}	10.11 ^{-0.02}	2491	100567	0.027	0.495	0.062U	1.1U	3.3 U	Y
2,4-D	9.29 ^{-0.03}	9.05 ^{-0.01}	7432	72128	0.350	1.409	0.80U	3.2U	11 U	Y

Prep Amount: 30.357 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 71.90

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: 12/2/20 14:54

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Data File : J:\gc24\data\112820\11280056.D Vial: 62
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 7:17 am Operator: SM
 Sample : K2010412-012 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 11:24:20 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.997	7.830	1472217	4535940	80.906	107.238 #
Target Compounds						
1) m Dalapon	3.140	2.880	6807	148797	0.281	3.080 #
3) m Dicamba	8.210	7.947	12913	138678	0.185	0.936 #
4) m MCPP	8.280	8.117	9122	97583	705.075	N.D. #
5) m MCPA	8.603	8.367	8718	86020	148.892	N.D. #
6) m Dichloroprop	8.973	8.790	45721	6699	2.452	0.161 #
7) m 2,4-D	9.290	9.050	7432	72128	0.350	1.409 #
8) m 2,4,5-TP ...	10.273	10.107	2491	100567	0.027	0.495 #
9) m 2,4,5-T	10.707	10.547	7402	5159	0.090	0.027 #
10) m 2,4-DB	11.260	11.190	56799	21400	5.536	0.738 #
11) m Dinoseb	11.663	11.250f	75470	360580	1.220	2.637 #

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

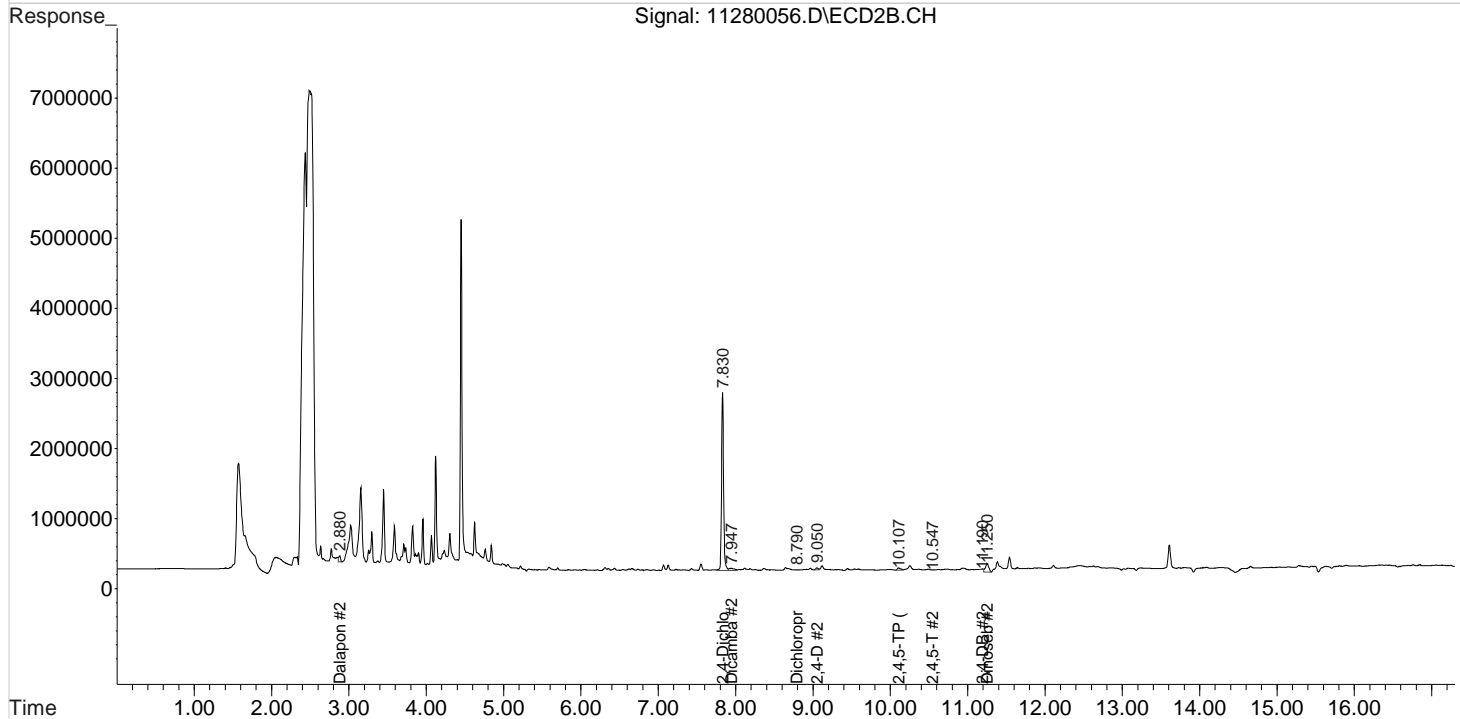
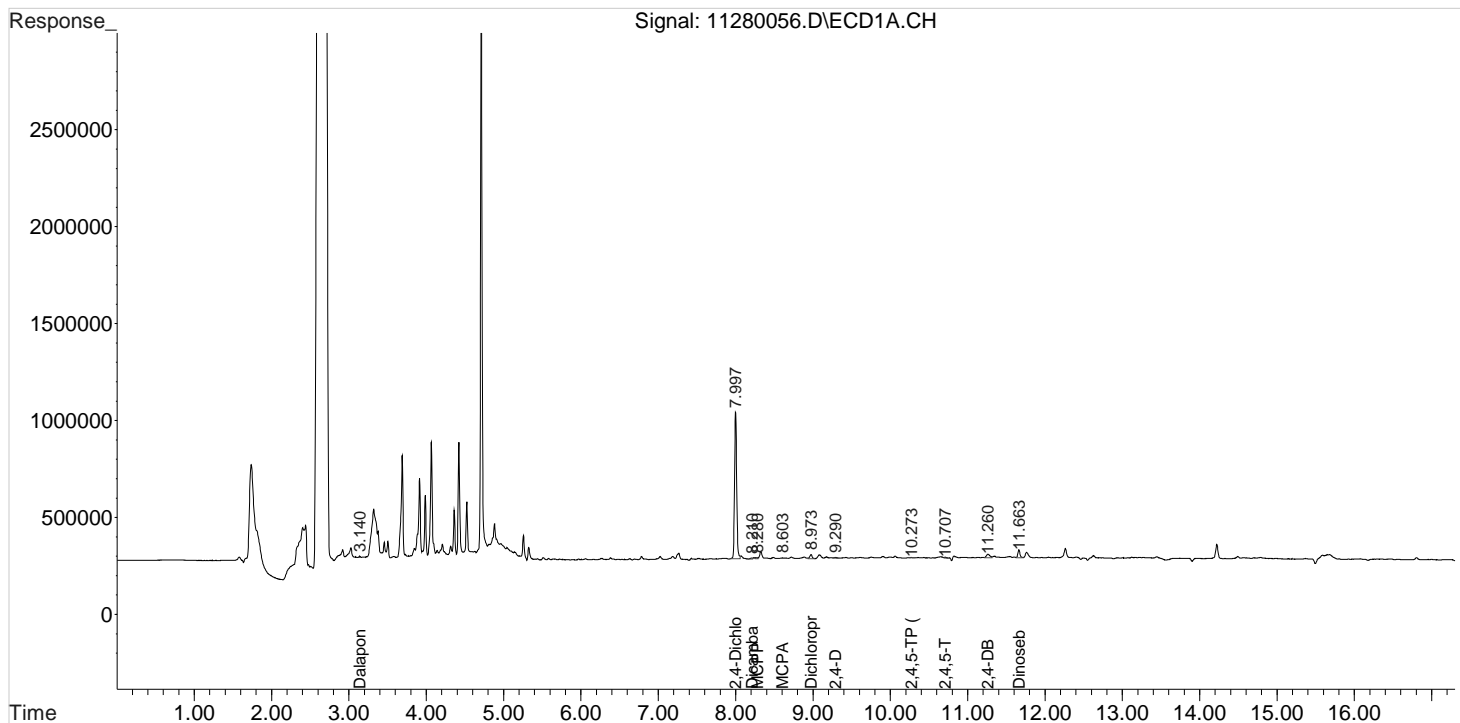
Data File : J:\gc24\data\112820\11280056.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 7:17 am
Sample : K2010412-012
Misc :

Vial: 62
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 11:24:20 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2
Signal #1 Info : 0.25 mm
Signal #2 Phase : ZB-XLB-HT
Signal #2 Info : 0.25 mm



Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280057.D\
Lab ID: K2010412-013
RunType: N/A
Matrix: Sediment

Date Acquired: 11/29/20 07:40:00
Batch ID: 705101
Analysis Method: 8151A/HERB

Validations

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

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280057.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 07:40:00	Vial: 62
Run Type: N/A	Dilution: 1
Lab ID: K2010412-013	Raw Units: ppb

Bottle ID: K2010412-013.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/8/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot: 369613	Report Group: K2010412
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 11/11/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.00 ^{+0.01}	7.83 ^{+0.01}	1371021	4224362	75.345	99.872	75	100	75	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt
2,4,5-TP	10.26 ^{+0.01}	10.10 ^{-0.03}	8631	311939	0.092	1.537	0.29U	4.8J	4.6 U	Y
2,4-D	9.35 ^{+0.03}	9.05 ^{-0.01}	13587	107252	0.640	2.095	2.0U	6.6U	15 U	Y

Prep Amount: 30.082 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 52.70

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: 12/2/20 14:54

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Data File : J:\gc24\data\112820\11280057.D Vial: 63
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 7:40 am Operator: SM
 Sample : K2010412-013 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 11:24:23 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.998	7.828	1371021	4224362	75.345	99.872 #
Target Compounds						
1) m Dalapon	3.138	2.878	6572	55877	0.271	1.157 #
3) m Dicamba	8.192	7.942	19622	105076	0.281	0.709 #
4) m MCPP	8.325	8.112	58317	102435	1763.710	N.D. #
5) m MCPA	8.598	8.365	17881	53075	305.384	N.D. #
6) m Dichloroprop	8.975	8.792	37307	90324	2.001	2.165
7) m 2,4-D	9.348	9.048	13587	107252	0.640	2.095 #
8) m 2,4,5-TP ...	10.265	10.102	8631	311939	0.092	1.537 #
9) m 2,4,5-T	10.702	10.492	27191	28184	0.330	0.147 #
10) m 2,4-DB	11.252	11.185	50624	68053	4.934	2.345 #
11) m Dinoseb	11.662	11.248f	99914	376256	1.615	2.751 #

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

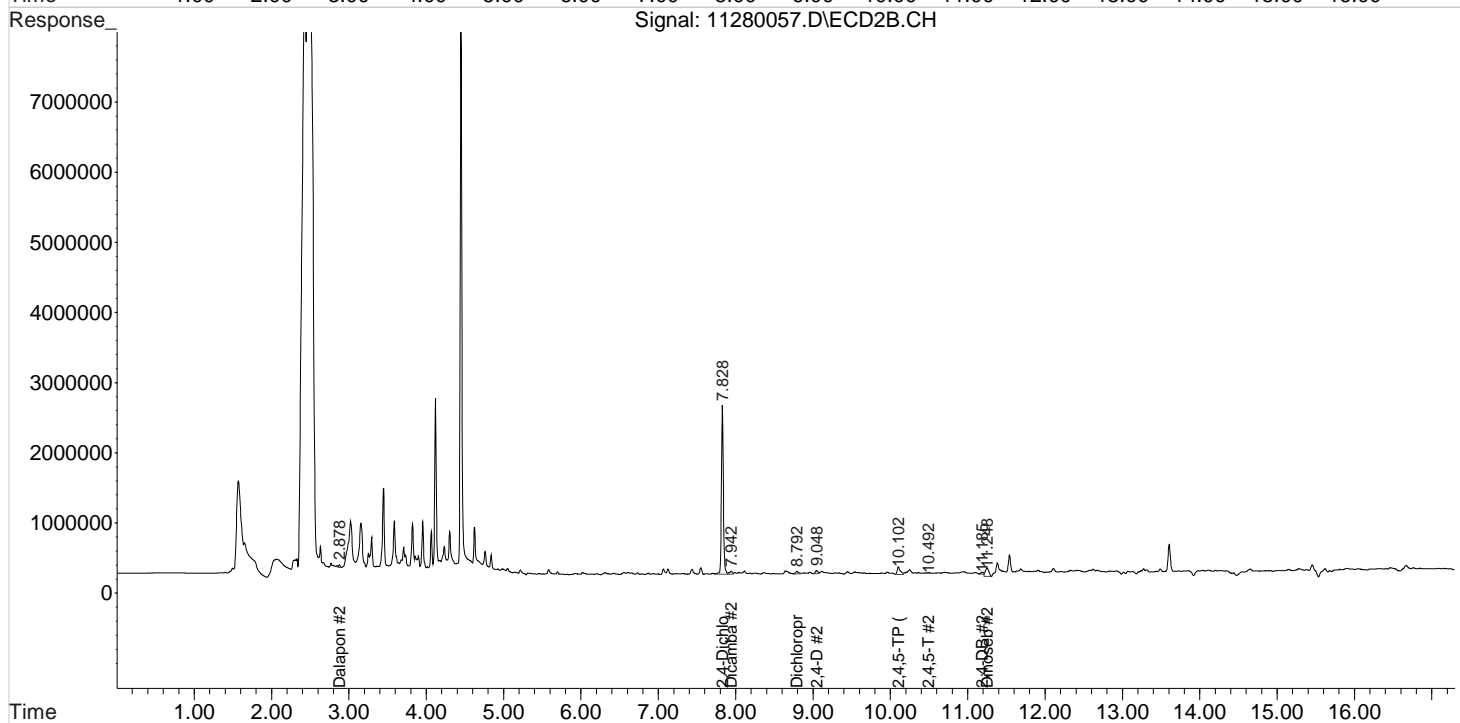
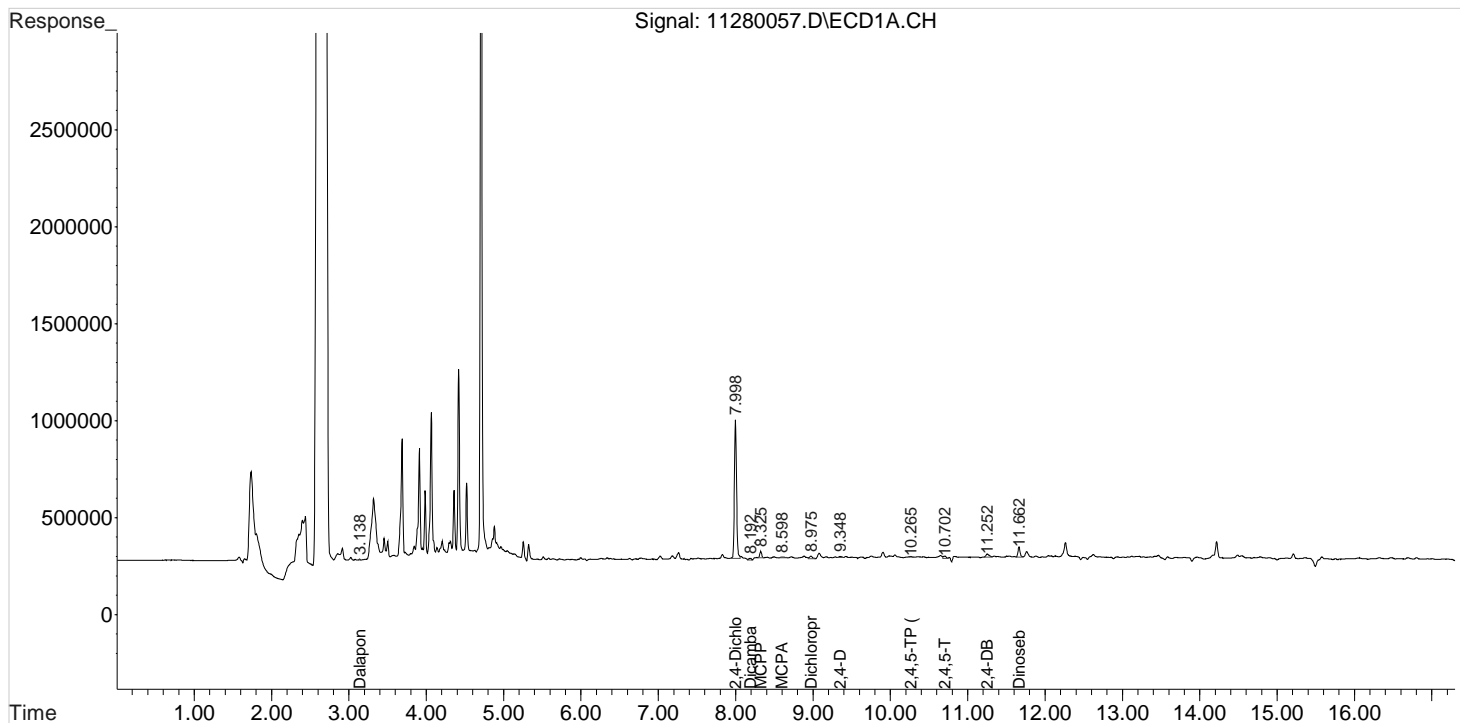
Data File : J:\gc24\data\112820\11280057.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 7:40 am
Sample : K2010412-013
Misc :

Vial: 63
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 11:24:23 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st SM 11/29/20
2nd ^{JA} 12/01/20

Data File: J:\gc24\data\112820\11280058.D\
Lab ID: K2010412-014
RunType: N/A
Matrix: Sediment

Date Acquired: 11/29/20 08:03:00
Batch ID: 705101
Analysis Method: 8151A/HERB

Validations

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

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280058.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 08:03:00	Vial: 63
Run Type: N/A	Dilution: 1
Lab ID: K2010412-014	Raw Units: ppb

Bottle ID: K2010412-014.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/8/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot: 369613	Report Group: K2010412
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 11/11/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.00 ^{+0.01}	7.83 ^{+0.01}	1235324	3790762	67.888	89.621	68	90	68	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt
2,4,5-TP	10.27 ^{+0.02}	10.10 ^{-0.03}	6362	265874	0.068	1.310	0.19U	3.7U	4.1 U	Y
2,4-D	9.35 ^{+0.03}	9.05 ^{-0.01}	6063	66199	0.285	1.293	0.81U	3.7U	14 U	Y

Prep Amount: 30.097 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 58.40

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

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

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

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Data File : J:\gc24\data\112820\11280058.D Vial: 64
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 8:03 am Operator: SM
 Sample : K2010412-014 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Dec 01 13:18:57 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.996	7.826	1235324	3790762	67.888m	89.621 #
Target Compounds						
1) m Dalapon	3.139	2.879	6173	201856	0.254	4.178 #
3) m Dicamba	8.193	7.946	15986	107586	0.229	0.726 #
4) m MCPP	8.323	8.113	64833	65014	1903.929	N.D. #
5) m MCPA	8.603	8.366	16467	65760	281.235	N.D. #
6) m Dichloroprop	8.973	8.789	15137	40211	0.812	0.964
7) m 2,4-D	9.346	9.046	6063	66199	0.285	1.293 #
8) m 2,4,5-TP ...	10.266	10.103	6362	265874	0.068	1.310 #
9) m 2,4,5-T	10.703	10.556	15303	8485	0.185	0.044 #
10) m 2,4-DB	11.253	11.186	46746	38755	4.556	1.336 #
11) m Dinoseb	11.663	11.246f	101861	358023	1.646	2.618 #

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

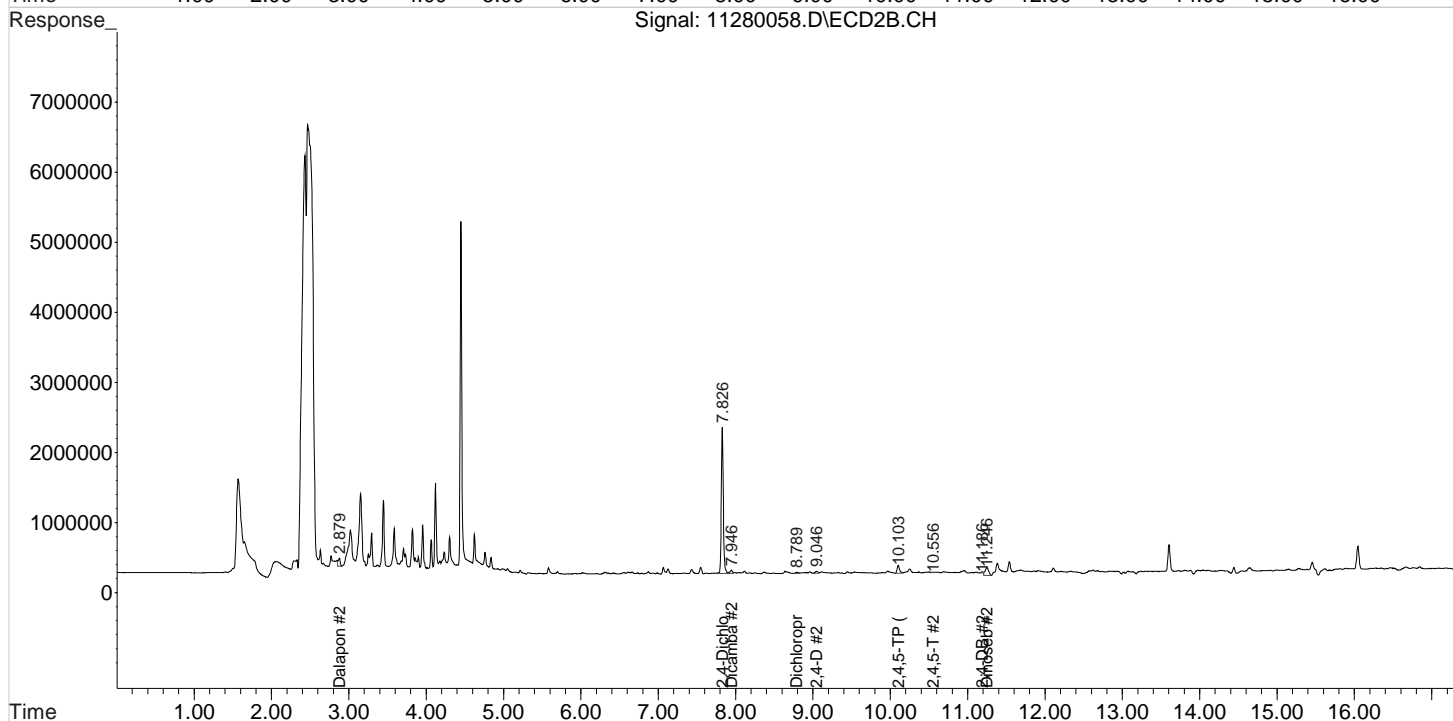
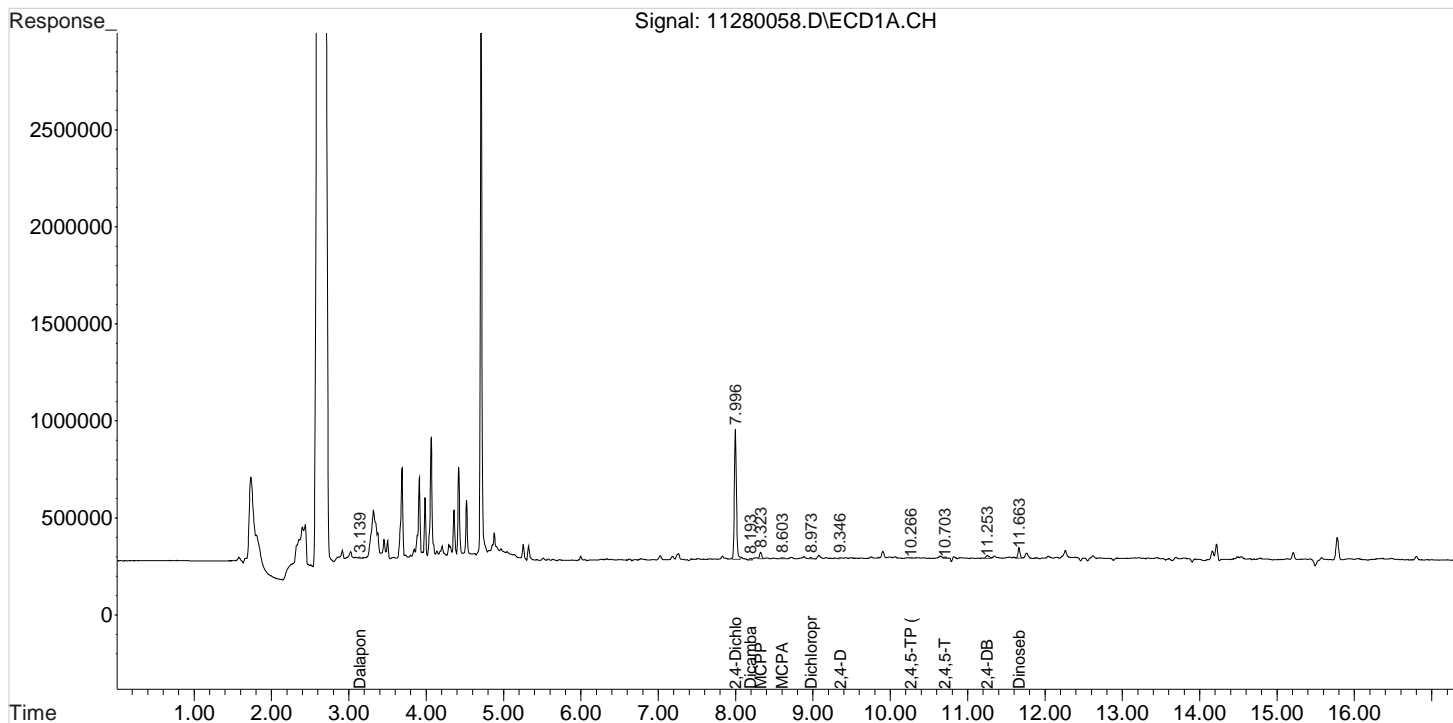
Data File : J:\gc24\data\112820\11280058.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 8:03 am
 Sample : K2010412-014
 Misc :

Vial: 64
 Operator: SM
 Inst : HP G1530A
 Multiplr: 1.00

Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Dec 01 13:18:57 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

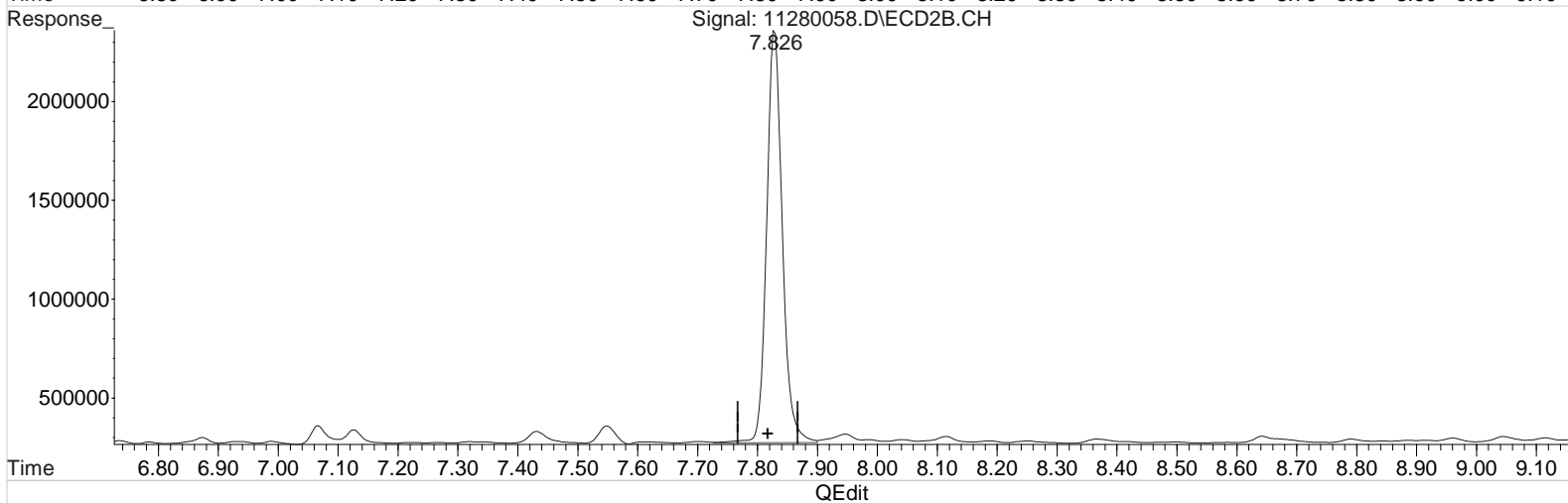
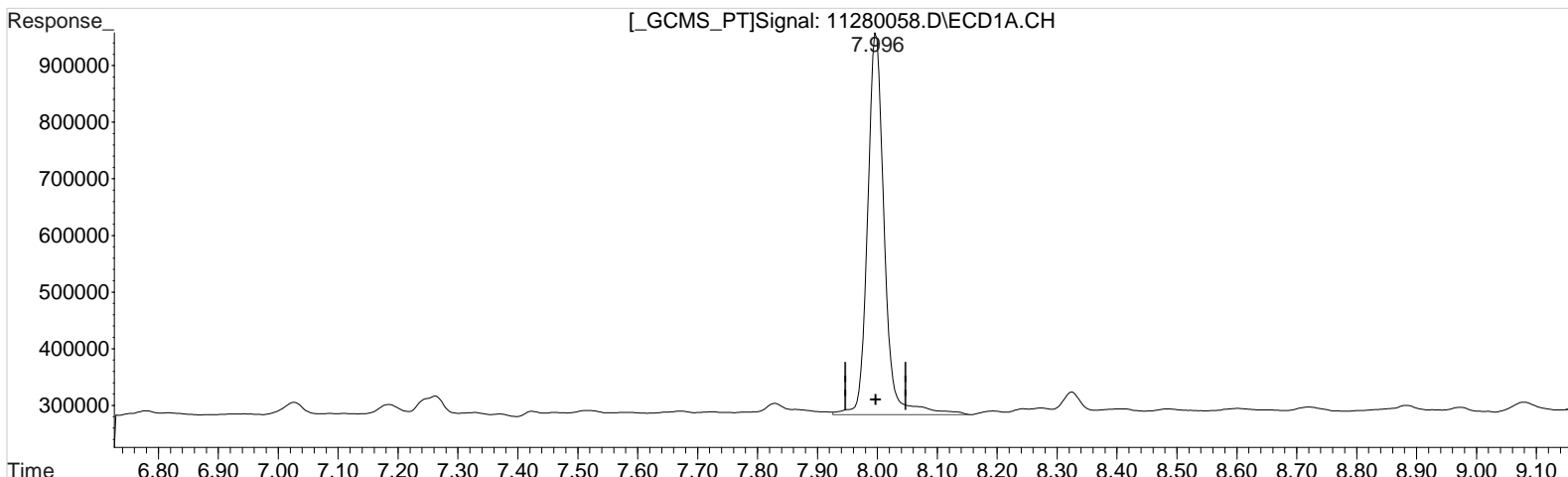
Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\112820\11280058.D Vial: 64
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 8:03 am Operator: SM
Sample : K2010412-014 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 11:24:26 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



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

7.996min 72.115 ppb
response 1312242

Manual Integration:

Before

12/01/20

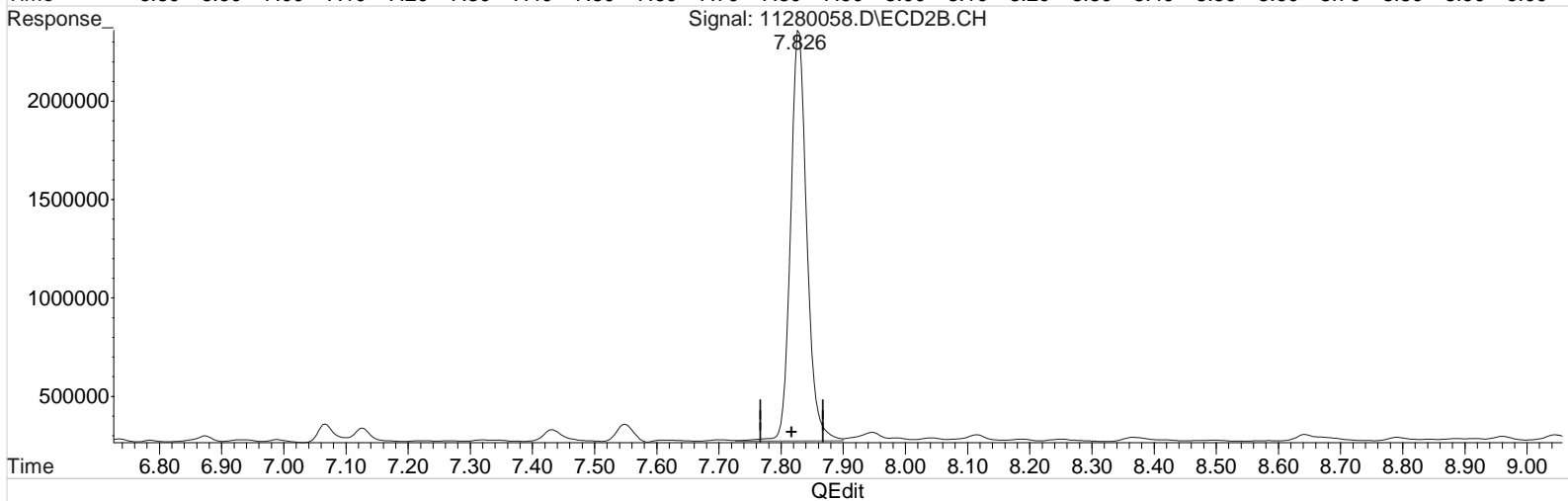
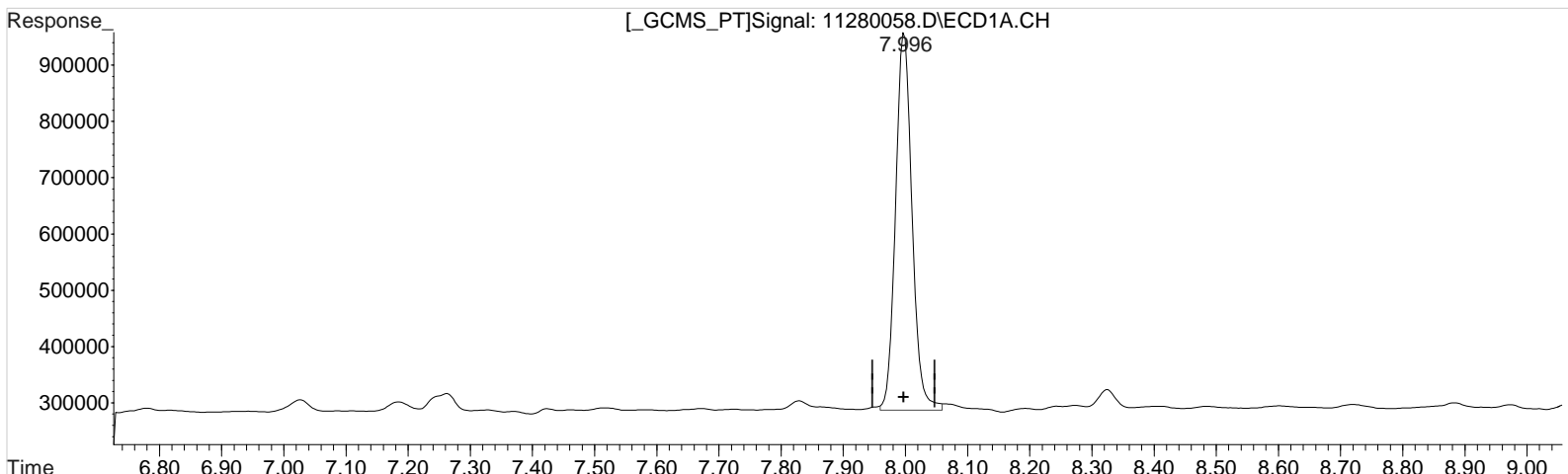
(2) 2,4-Dichlorophenylacetic Acid #2 (s)

7.826min 89.621 ppb
response 3790762

Data File : J:\gc24\data\112820\11280058.D Vial: 64
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 8:03 am Operator: SM
Sample : K2010412-014 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 11:24:26 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



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

7.996min 67.888 ppb m
response 1235324

Manual Integration:

After
Baseline/Shoulder
12/01/20

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

7.826min 89.621 ppb
response 3790762

Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280059.D\
Lab ID: K2010412-015
RunType: N/A
Matrix: Sediment

Date Acquired: 11/29/20 08:25:00
Batch ID: 705101
Analysis Method: 8151A/HERB

Validations

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

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280059.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 08:25:00	Vial: 64
Run Type: N/A	Dilution: 1
Lab ID: K2010412-015	Raw Units: ppb

Bottle ID: K2010412-015.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/8/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot: 369613	Report Group: K2010412
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 11/11/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.00 ^{+0.01}	7.83 ^{+0.01}	1555674	4692541	85.493	110.940	85	111	85	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	10.26 ^{+0.01}	10.10 ^{-0.03}	18208	400373	0.194	1.972	0.57U	5.8J	4.3 U	Y
2,4-D	9.34 ^{+0.02}	9.04 ^{-0.02}	7075	81007	0.333	1.582	0.98U	4.7U	14 U	Y

Prep Amount: 30.253 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 55.90

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:\gc24\data\112820\11280059.D Vial: 65
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 8:25 am Operator: SM
 Sample : K2010412-015 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 19:01:22 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.997	7.828	1555674	4692541	85.493	110.940 #
Target Compounds						
1) m Dalapon	3.137	2.881	20585	145987	0.849	3.022 #
3) m Dicamba	8.247	7.944	22188	251281	0.318	1.695 #
4) m MCPP	8.321	8.114	157272	221089	3893.140	109.279 #
5) m MCPA	8.571	8.364	28881	204672	493.249	N.D. #
6) m Dichloroprop	8.974	8.784	46669	84478	2.503	2.025
7) m 2,4-D	9.344	9.038	7075	81007	0.333m	1.582 #
8) m 2,4,5-TP ...	10.264	10.101	18208	400373	0.194	1.972 #
9) m 2,4,5-T	10.697	10.491	28536	16438	0.346	0.086 #
10) m 2,4-DB	11.247	11.188	64805	23433	6.317	0.808 #
11) m Dinoseb	11.664	11.338	202229	85566	3.269	0.626 #

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

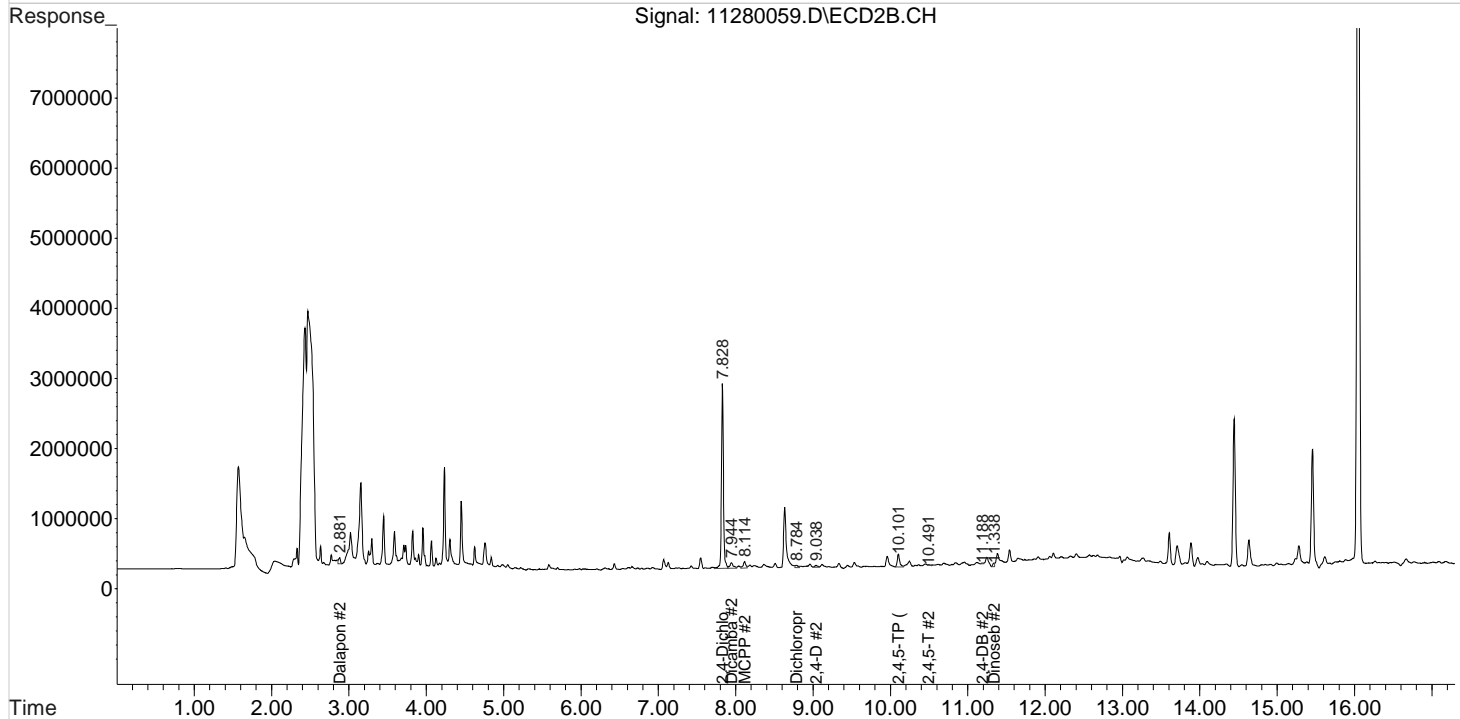
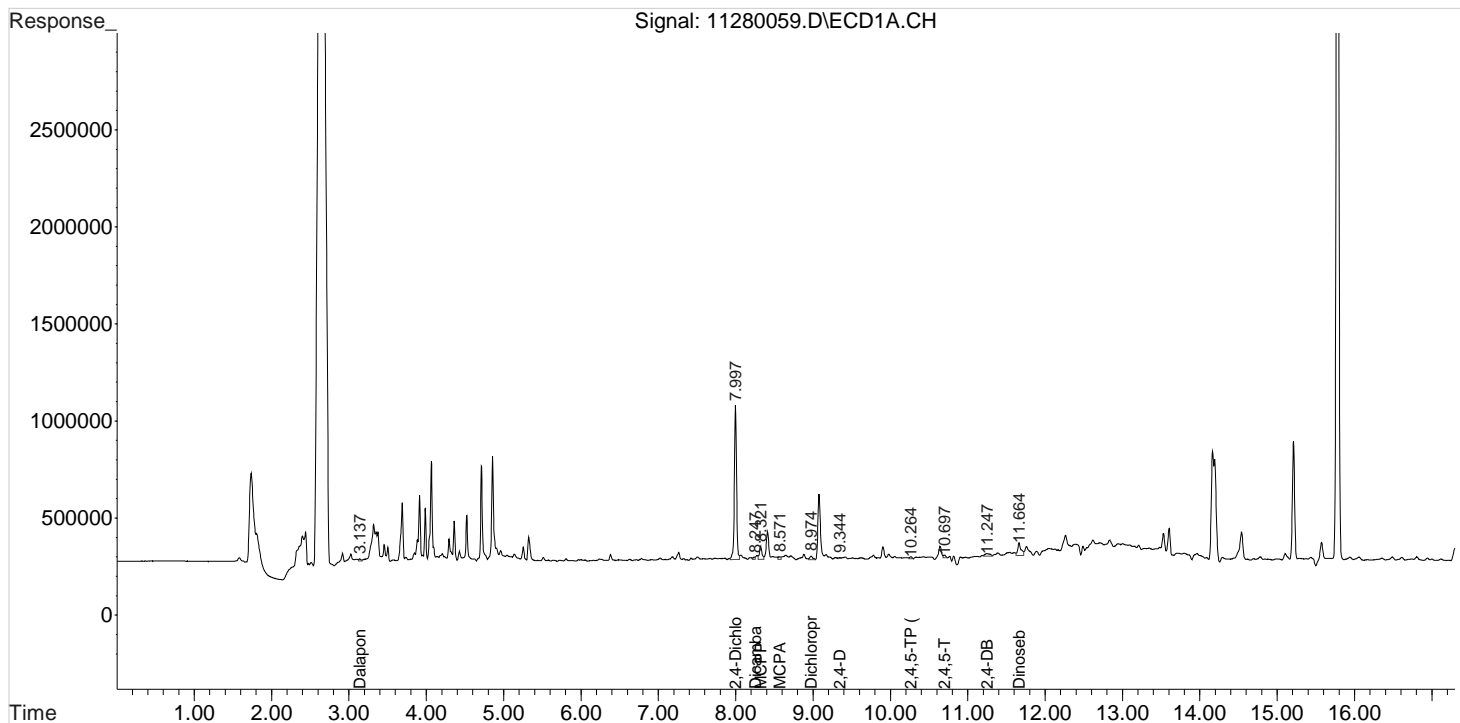
Data File : J:\gc24\data\112820\11280059.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 8:25 am
Sample : K2010412-015
Misc :

Vial: 65
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 19:01:22 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

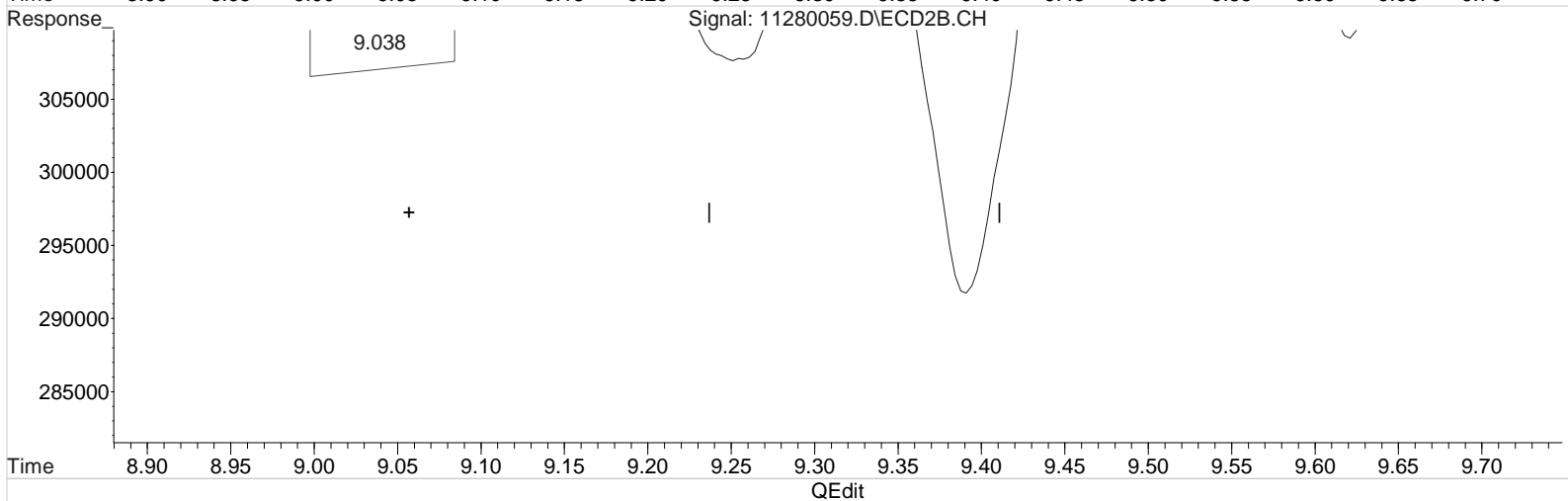
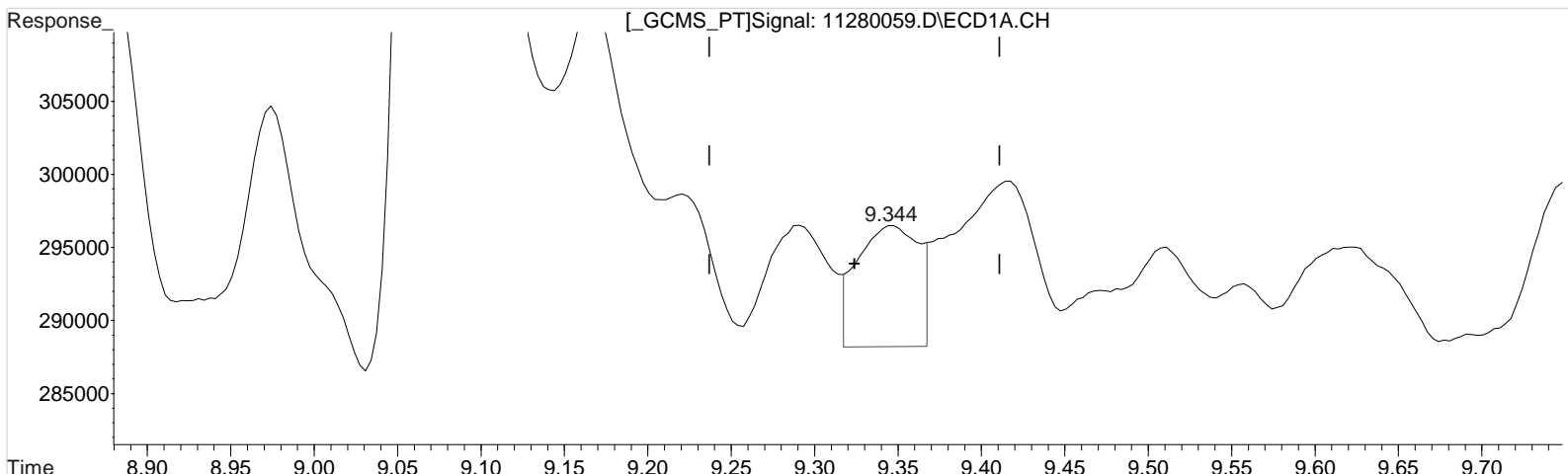
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\112820\11280059.D Vial: 65
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 8:25 am Operator: SM
Sample : K2010412-015 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 11:24:29 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(7) 2,4-D (m)

9.344min 1.017 ppb
response 21595

Manual Integration:

Before

11/29/20

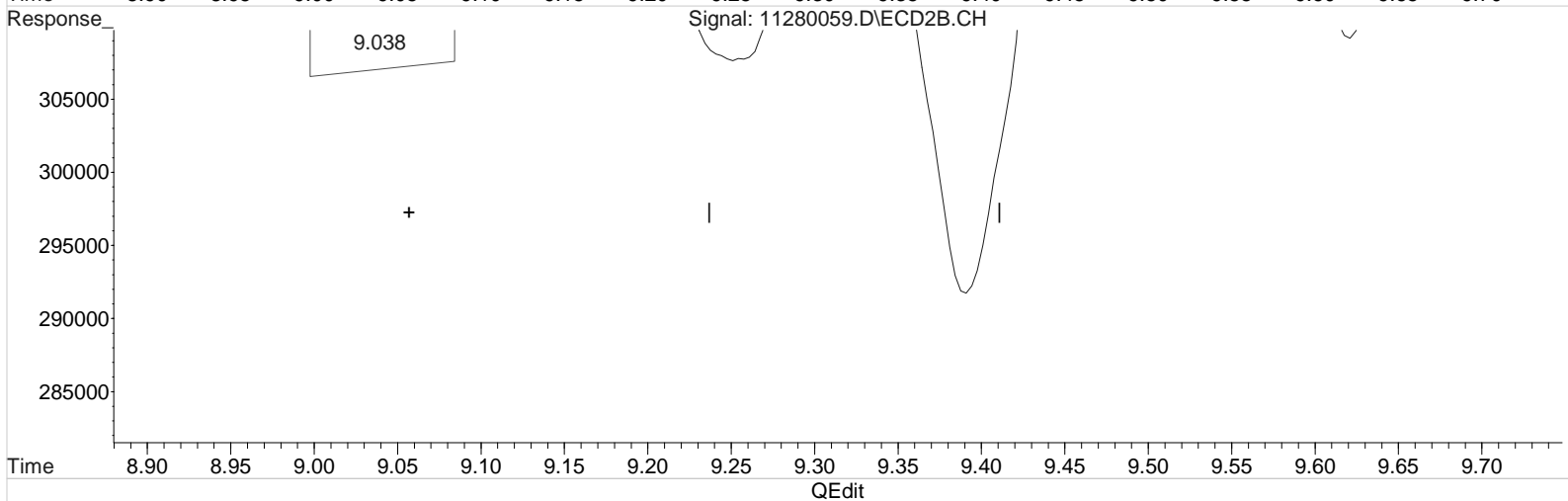
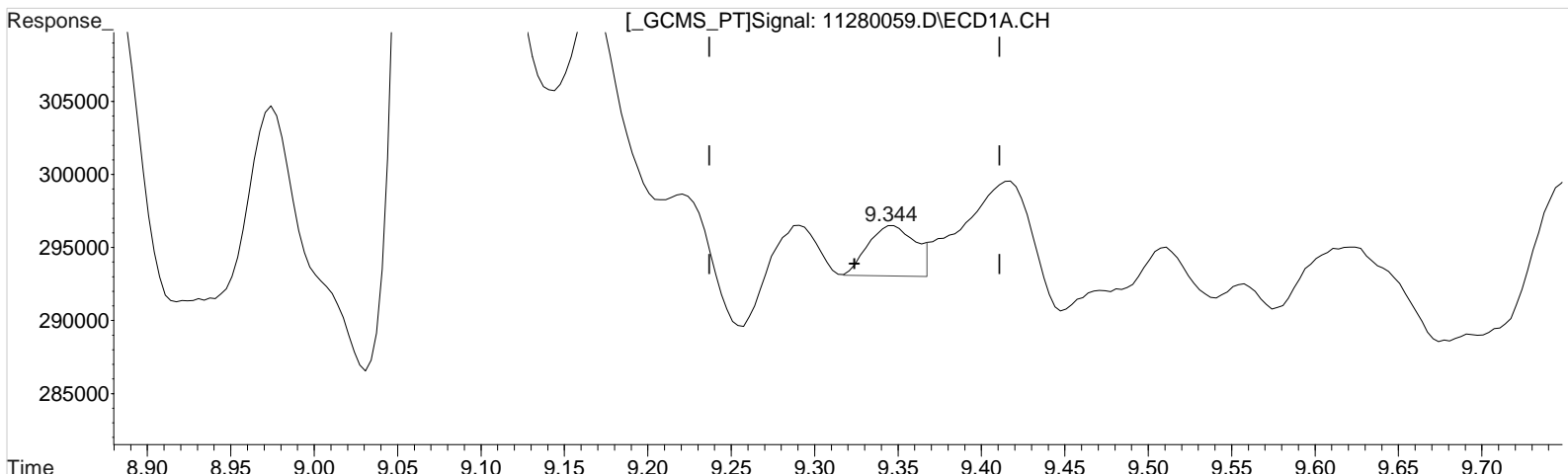
(7) 2,4-D #2 (m)

9.038min 1.582 ppb
response 81007

Data File : J:\gc24\data\112820\11280059.D Vial: 65
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 8:25 am Operator: SM
Sample : K2010412-015 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 11:24:29 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(7) 2,4-D (m)
9.344min 0.333 ppb m
response 7075

(7) 2,4-D #2 (m)
9.038min 1.582 ppb
response 81007

Manual Integration:
After
Baseline/Shoulder
11/29/20

Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280060.D\
Lab ID: K2010412-016
RunType: N/A
Matrix: Sediment

Date Acquired: 11/29/20 08:48:00
Batch ID: 705101
Analysis Method: 8151A/HERB

Validations

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

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280060.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 08:48:00	Vial: 65
Run Type: N/A	Dilution: 1
Lab ID: K2010412-016	Raw Units: ppb

Bottle ID: K2010412-016.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/8/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot: 369613	Report Group: K2010412
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 11/11/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.00 ^{+0.01}	7.83 ^{+0.01}	1258203	3708875	69.145	87.685	69	88	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	10.26 ^{+0.01}	10.14 ^{+0.01}	18042	42751	0.193	0.211	0.52U	0.57U	3.9 U	Y
2,4-D	9.34 ^{+0.02}	9.07 ^{+0.01}	8858	9531	0.417	0.186	1.1U	0.50U	13 U	Y

Prep Amount: 30.284 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 61.30

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:\gc24\data\112820\11280060.D Vial: 66
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 8:48 am Operator: SM
 Sample : K2010412-016 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Dec 01 13:19:39 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.996	7.829	1258203	3708875	69.145m	87.685m#
Target Compounds						
1) m Dalapon	3.139	2.879	10949	291692	0.451	6.038 #
3) m Dicamba	8.176	7.943	15168	95445	0.217	0.644 #
4) m MCPP	8.322	8.113	81292	121795	2258.113	N.D. #
5) m MCPA	8.576	8.366	3678	110299	62.815	N.D. #
6) m Dichloroprop	8.976	8.786	39771	26171	2.133	0.627 #
7) m 2,4-D	9.342	9.073	8858	9531	0.417	0.186 #
8) m 2,4,5-TP ...	10.262	10.139	18042	42751	0.193	0.211
9) m 2,4,5-T	10.702	10.546	32083	220591	0.389	1.153 #
10) m 2,4-DB	11.252	11.136	62474	201935	6.089	6.959
11) m Dinoseb	11.662	11.333	120372	72403	1.946	0.529 #

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

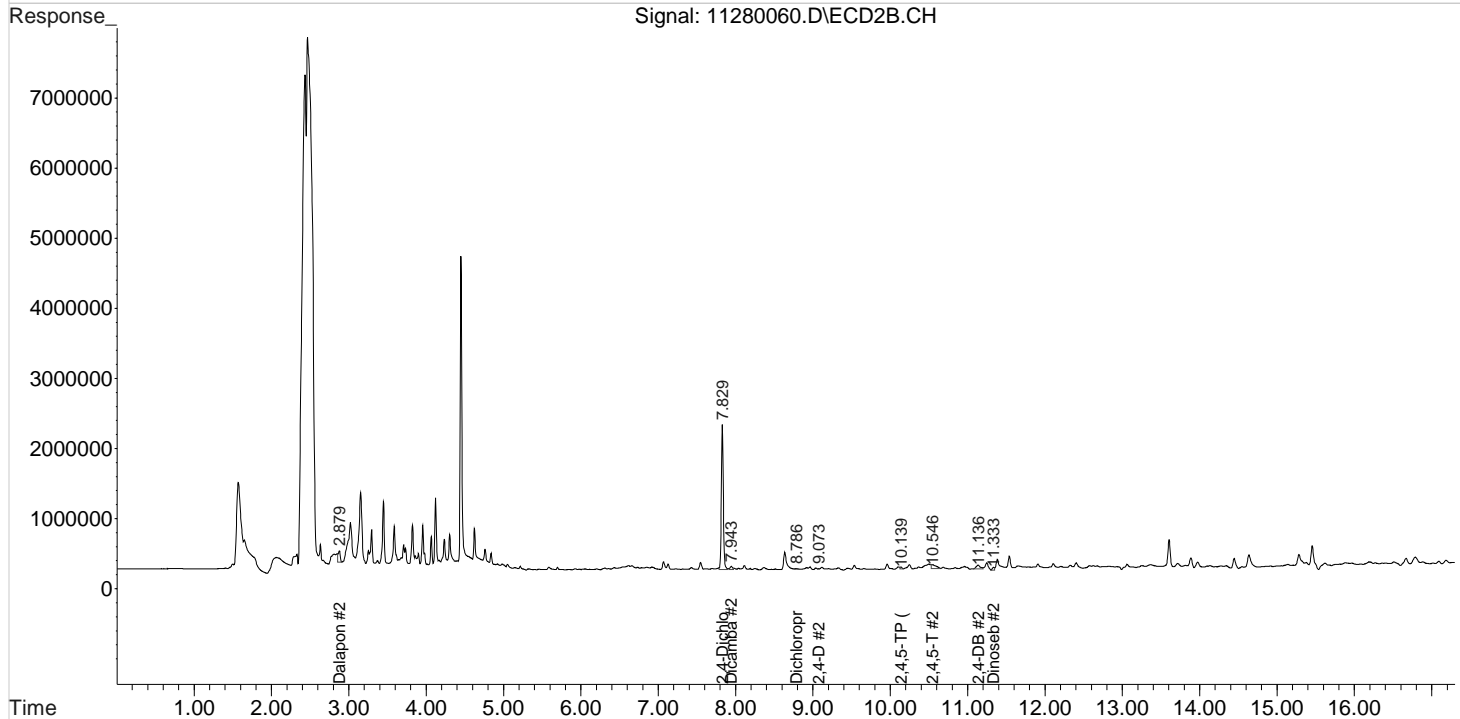
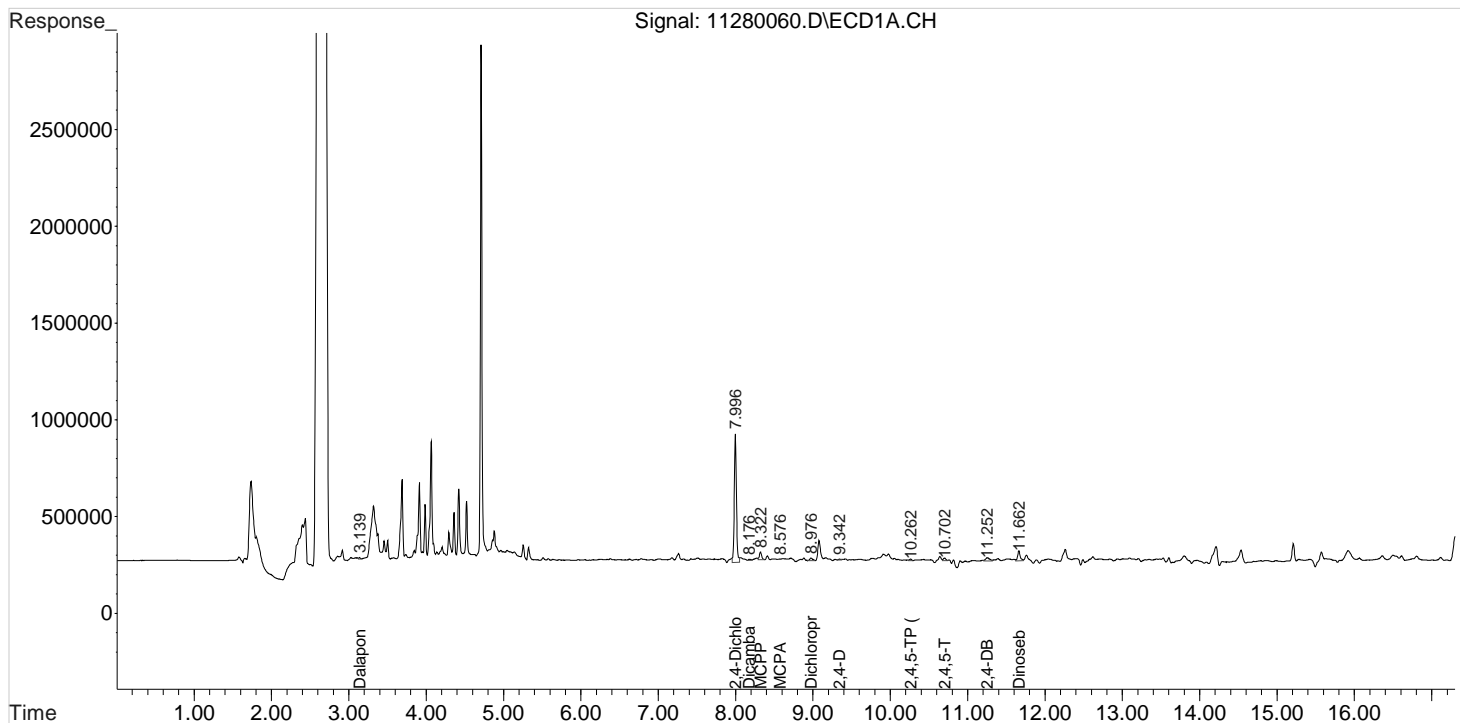
Data File : J:\gc24\data\112820\11280060.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 8:48 am
Sample : K2010412-016
Misc :

Vial: 66
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 13:19:39 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

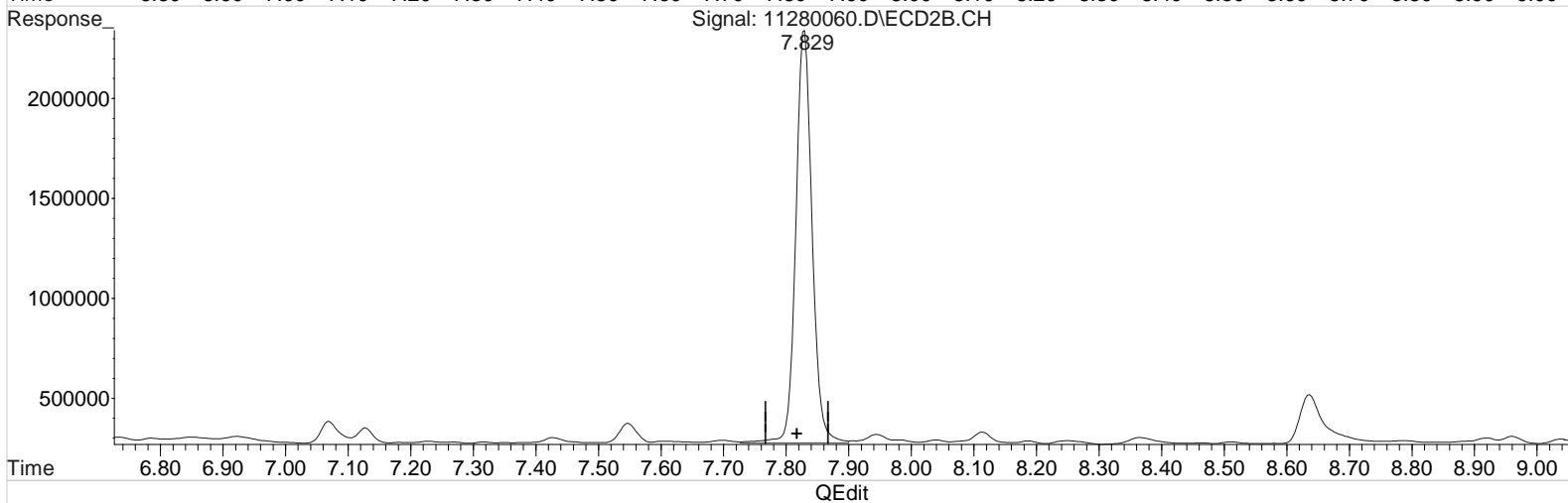
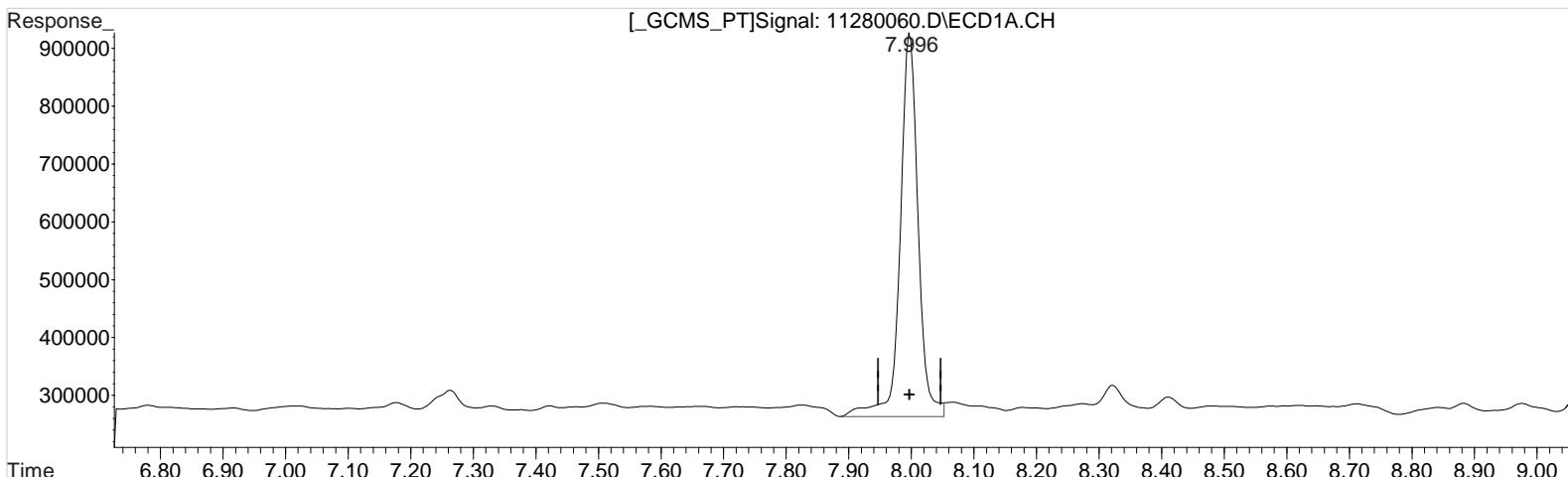
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\112820\11280060.D Vial: 66
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 8:48 am Operator: SM
Sample : K2010412-016 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 11:24:32 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



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

7.996min 72.871 ppb
response 1325997

Manual Integration:

Before

12/01/20

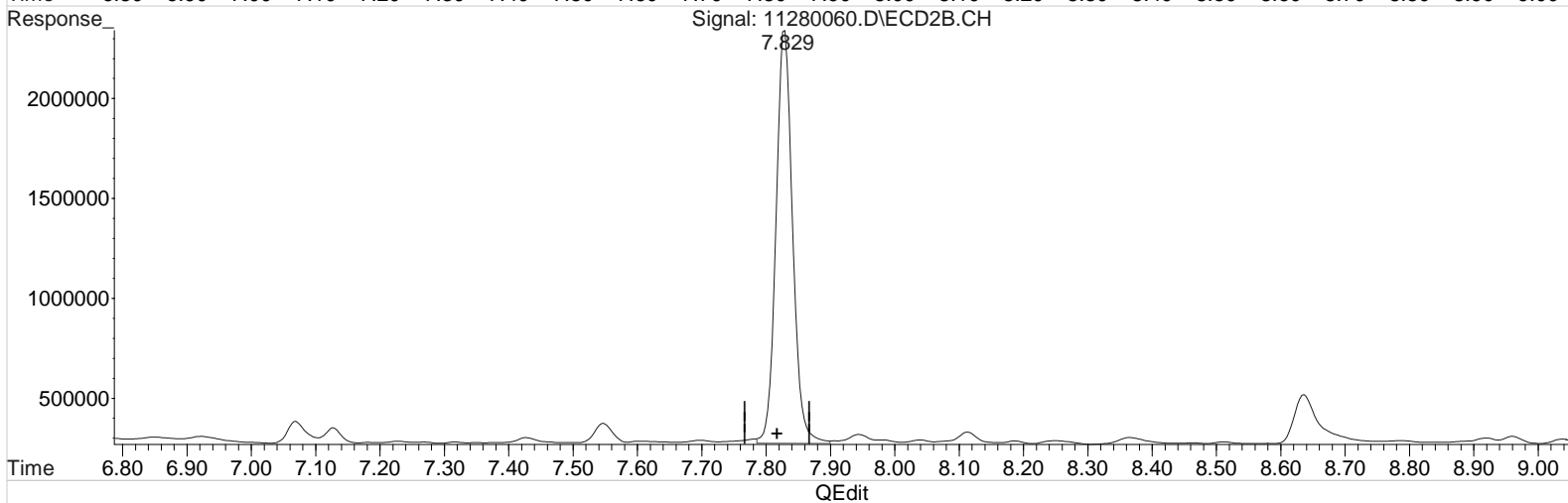
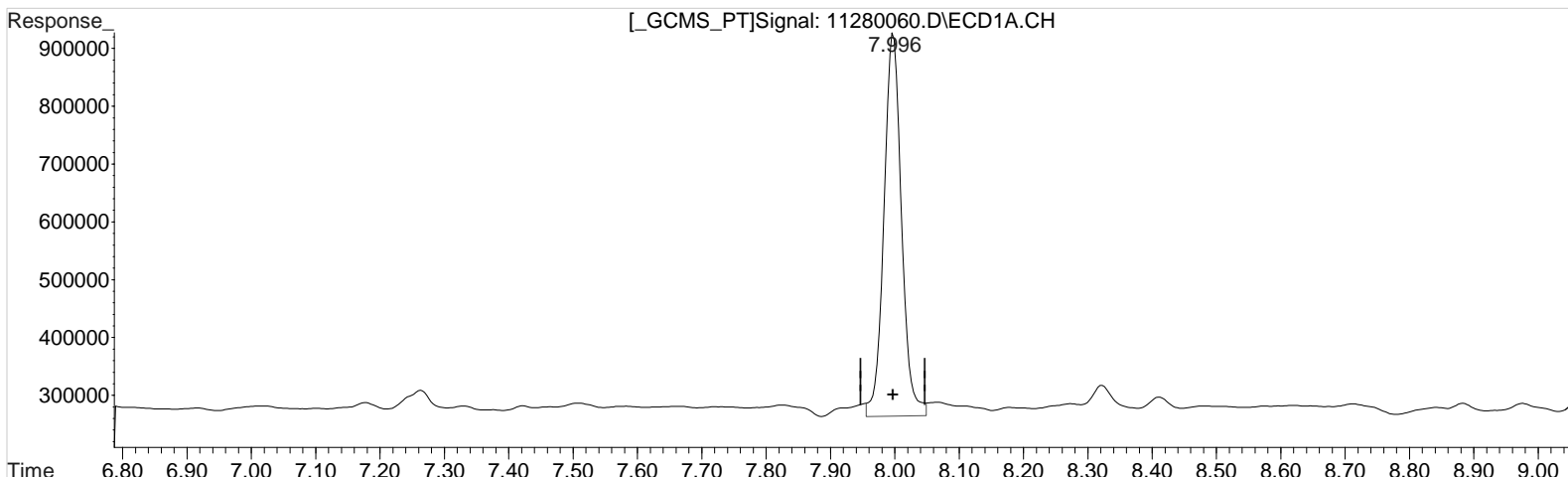
(2) 2,4-Dichlorophenylacetic Acid #2 (s)

7.829min 88.289 ppb
response 3734428

Data File : J:\gc24\data\112820\11280060.D Vial: 66
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 8:48 am Operator: SM
 Sample : K2010412-016 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 11:24:32 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



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

7.996min 69.145 ppb m
 response 1258203

Manual Integration:

After
 Baseline/Shoulder
 12/01/20

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

7.829min 87.685 ppb m
 response 3708875

(+) = Expected Retention Time

Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280063.D\
Lab ID: K2010412-017
RunType: N/A
Matrix: Sediment

Date Acquired: 11/29/20 09:57:00
Batch ID: 705101
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	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	25		20	CCV+ND

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280063.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 09:57:00	Vial: 66
Run Type: N/A	Dilution: 1
Lab ID: K2010412-017	Raw Units: ppb

Bottle ID: K2010412-017.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/8/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot: 369613	Report Group: K2010412
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 11/11/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.00	7.83	1227837	3872602	67.476	91.555	67	92	67	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	10.27	10.10 ^{-0.04}	11237	75272	0.120	0.371 ^{ccv}	0.23U	0.70U	2.8 U	Y
2,4-D	9.30 ^{-0.03}	9.04 ^{-0.03}	29879	34645	1.407	0.677	2.7U	1.3U	8.8 U	Y

Prep Amount: 30.284 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 87.10

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

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Data File : J:\gc24\data\112820\11280063.D Vial: 67
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 9:57 am Operator: SM
 Sample : K2010412-017 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 19:20:19 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.998	7.828	1227837	3872602	67.476	91.555 #
Target Compounds						
1) m Dalapon	3.138	2.878	5000	105818	0.206	2.190 #
3) m Dicamba	8.205	7.915	17034	3417	0.244	0.023 #
4) m MCPP	8.288	8.112	20362	21076	946.950	N.D. #
5) m MCPA	8.605	8.368	16291	76694	278.229	N.D. #
6) m Dichloroprop	8.971	8.795	28567	4504	1.532	0.108 #
7) m 2,4-D	9.305	9.045	29879	34645	1.407	0.677 #
8) m 2,4,5-TP ...	10.268	10.102	11237	75272	0.120	0.371 #
9) m 2,4,5-T	10.701	10.548	15586	9871	0.189	0.052 #
10) m 2,4-DB	11.265	11.192	32710	25283	3.188	0.871 #
11) m Dinoseb	11.661	11.252f	58097	285423	0.939	2.087 #

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

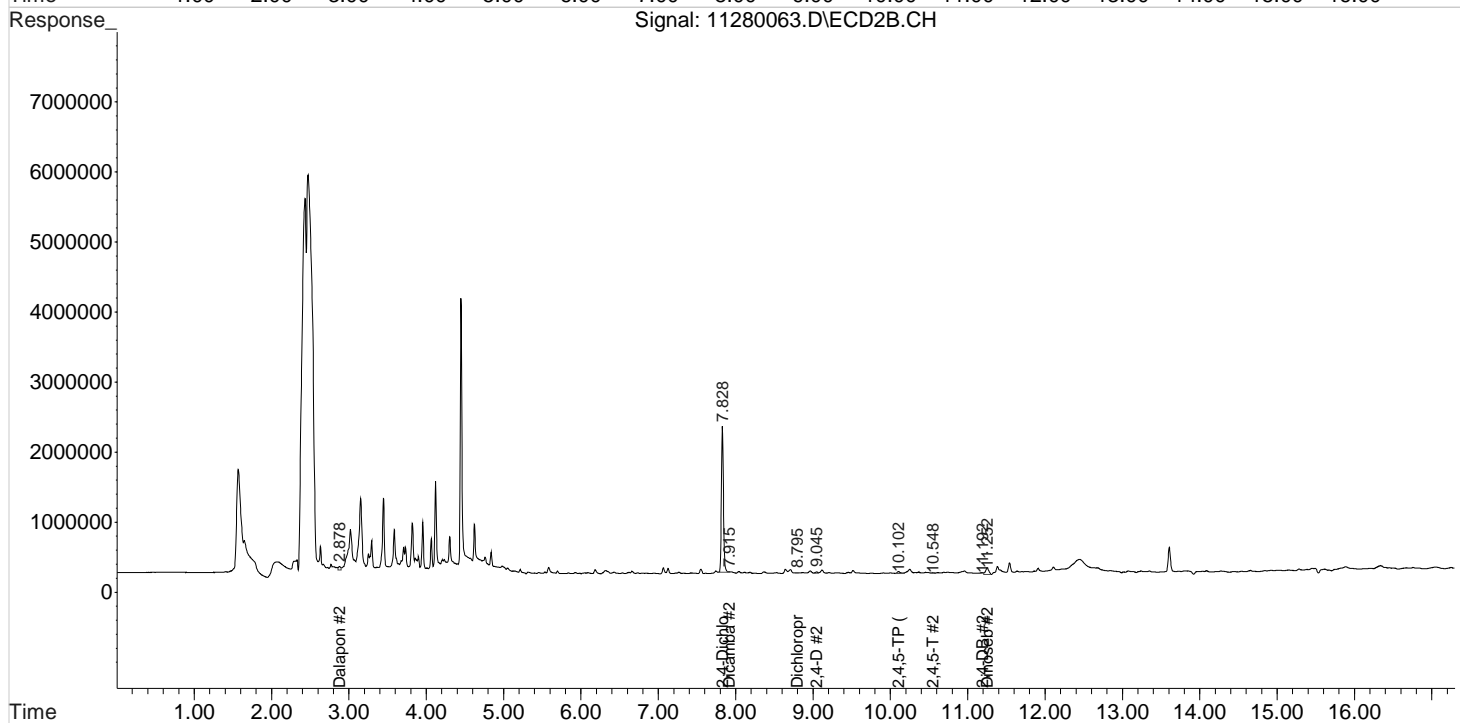
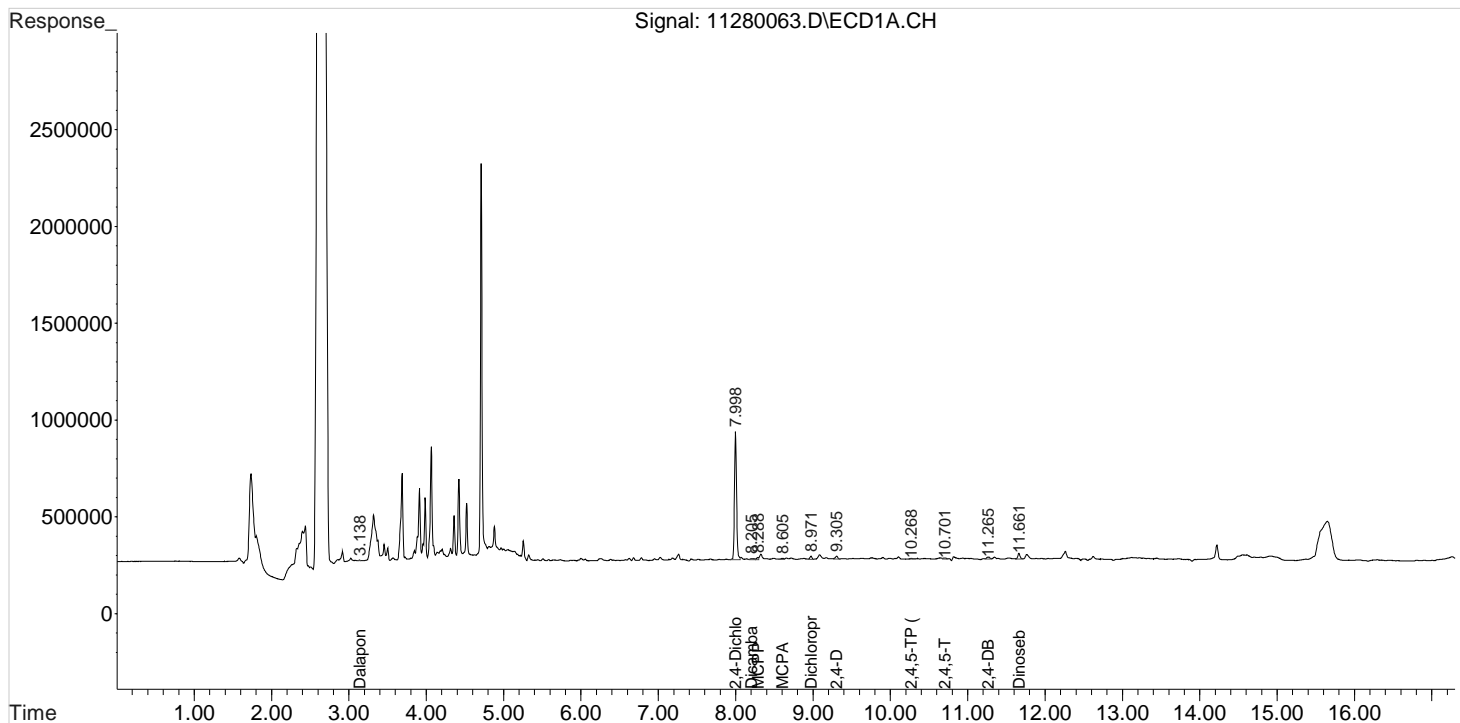
Data File : J:\gc24\data\112820\11280063.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 9:57 am
Sample : K2010412-017
Misc :

Vial: 67
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 19:20:19 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280064.D\
Lab ID: K2010412-018
RunType: N/A
Matrix: Sediment

Date Acquired: 11/29/20 10:20:00
Batch ID: 705101
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	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	25		20	CCV+ND

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280064.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 10:20:00	Vial: 67
Run Type: N/A	Dilution: 1
Lab ID: K2010412-018	Raw Units: ppb

Bottle ID: K2010412-018.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/8/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot: 369613	Report Group: K2010412
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 11/11/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.00	7.83	1242531	4015017	68.284	94.922	68	95	68	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt
2,4,5-TP	10.27	10.14	7100	8966	0.076	0.044 ^{ccv}	0.16U	0.093U	3.1 U	Y
2,4-D	9.30 ^{-0.03}	9.05 ^{-0.02}	8437	35722	0.397	0.698	0.84U	1.5U	9.8 U	Y

Prep Amount: 30.051 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 78.70

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

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

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

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Data File : J:\gc24\data\112820\11280064.D Vial: 68
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 10:20 am Operator: SM
 Sample : K2010412-018 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Dec 01 13:20:28 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.999	7.829	1242531	4015017	68.284m	94.922 #
Target Compounds						
1) m Dalapon	3.139	2.879	102534	143257	4.227	2.965 #
3) m Dicamba	8.205	7.919	11109	32156	0.159	0.217 #
4) m MCPP	8.289	8.112	8254	10488	686.396	N.D. #
5) m MCPA	8.489f	8.362	8600	53944	146.877	N.D. #
6) m Dichloroprop	8.975	8.705	26888	40934	1.442	0.981 #
7) m 2,4-D	9.302	9.049	8437	35722	0.397	0.698 #
8) m 2,4,5-TP ...	10.265	10.139	7100	8966	0.076	0.044 #
9) m 2,4,5-T	10.712	10.545	1770	5408	0.021	0.028 #
10) m 2,4-DB	11.262	11.185	47021	24937	4.583	0.859 #
11) m Dinoseb	11.662	11.249f	78132	296911	1.263	2.171 #

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

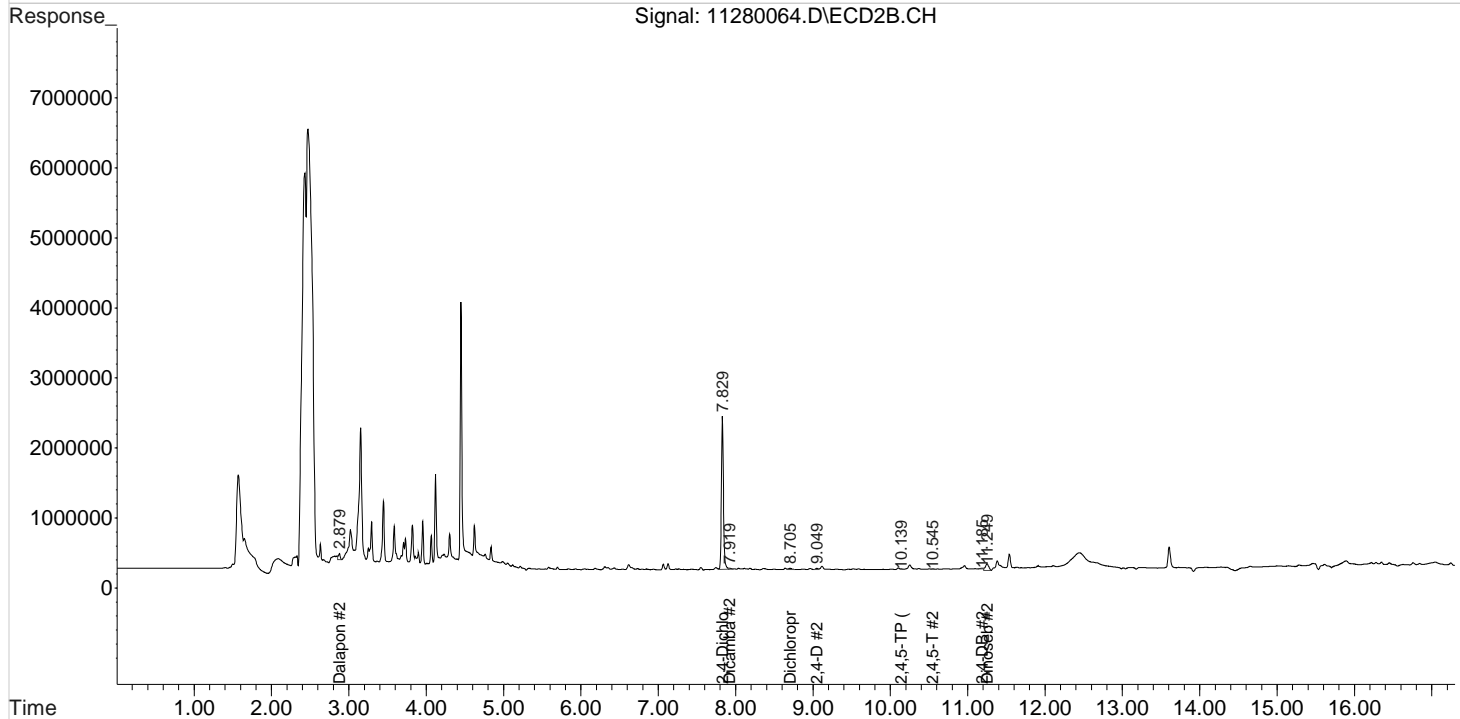
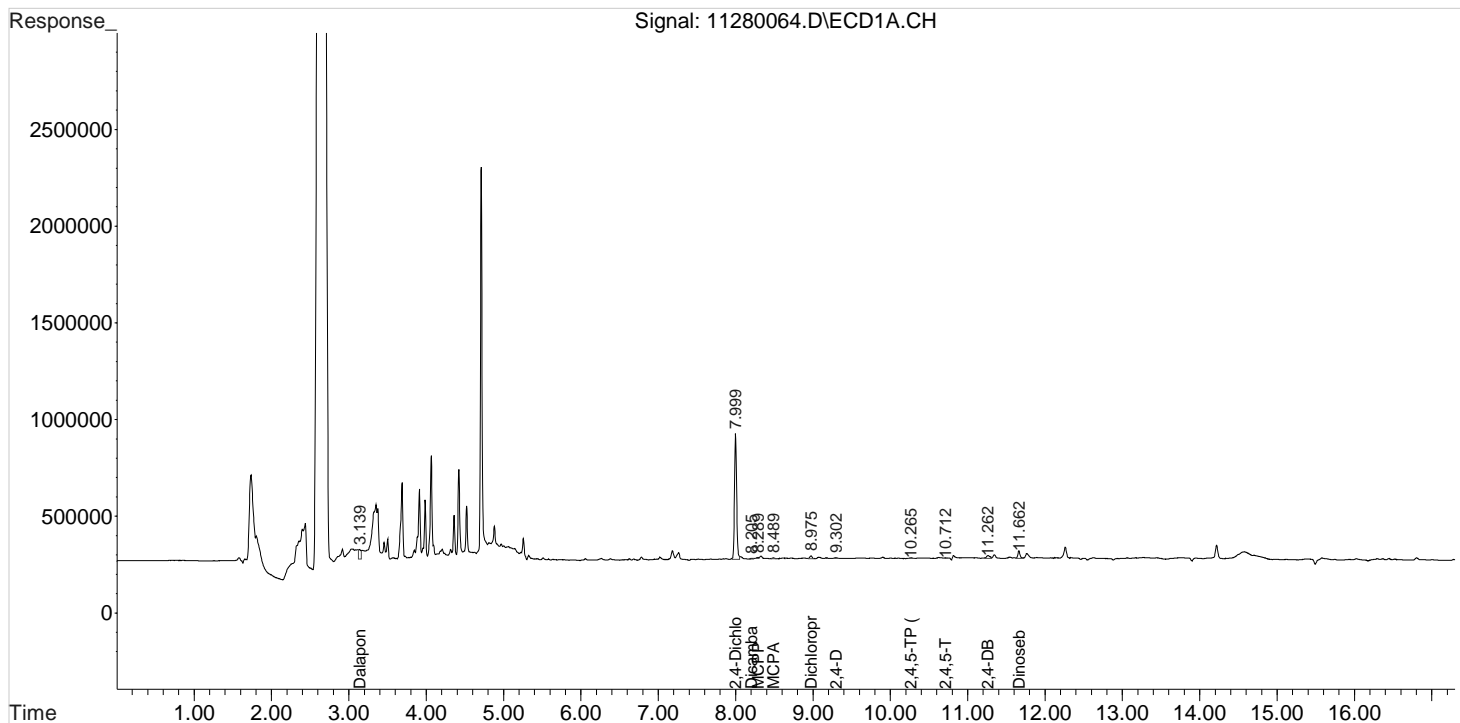
Data File : J:\gc24\data\112820\11280064.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 10:20 am
Sample : K2010412-018
Misc :

Vial: 68
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 01 13:20:28 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

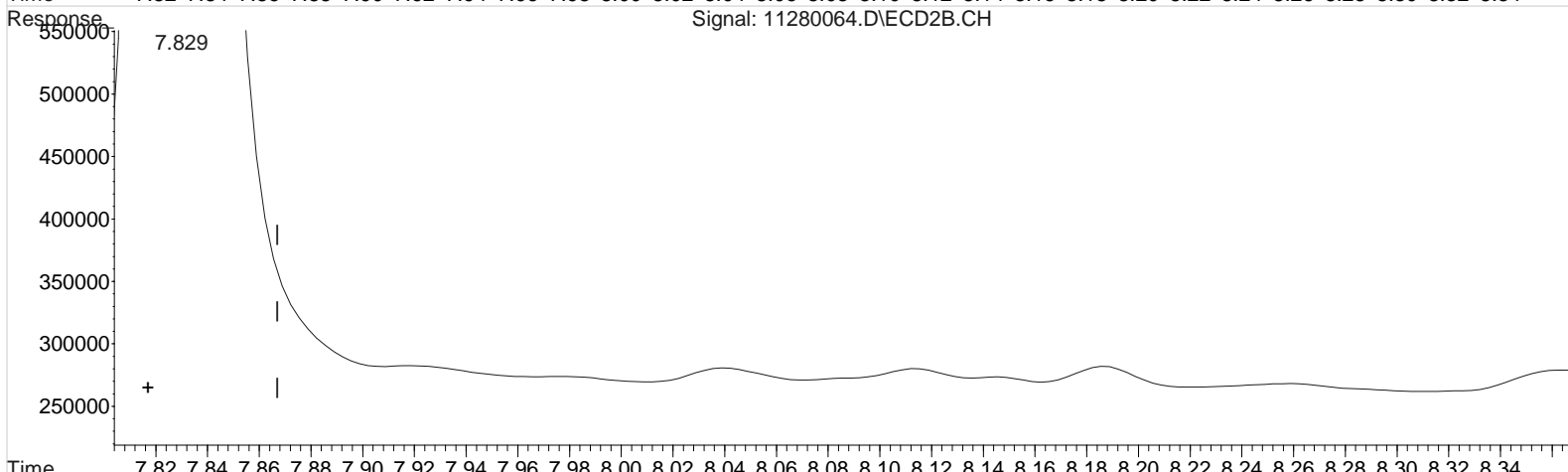
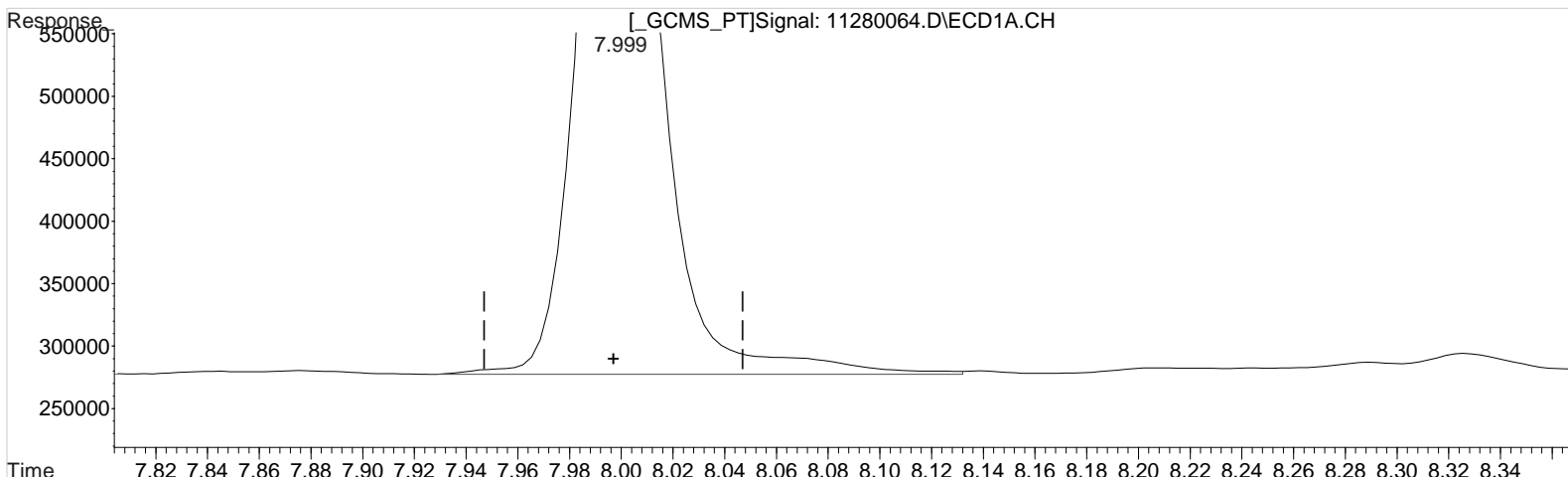
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\112820\11280064.D Vial: 68
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 10:20 am Operator: SM
Sample : K2010412-018 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 19:20:22 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



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

7.999min 70.418 ppb
response 1281372

Manual Integration:

Before

12/01/20

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

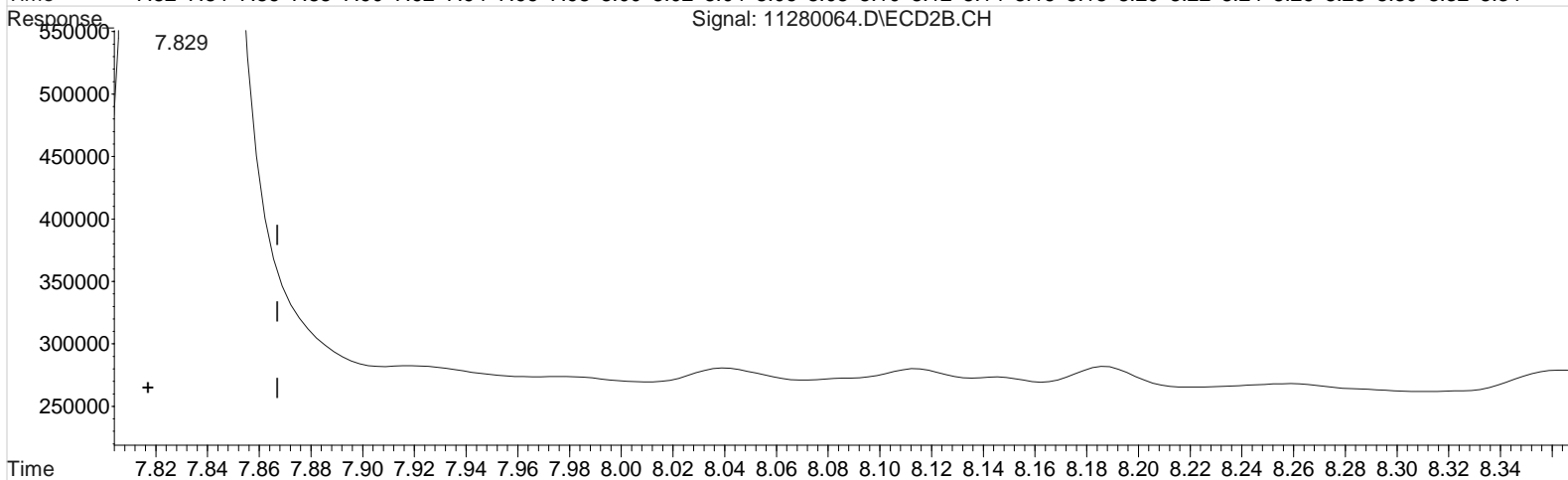
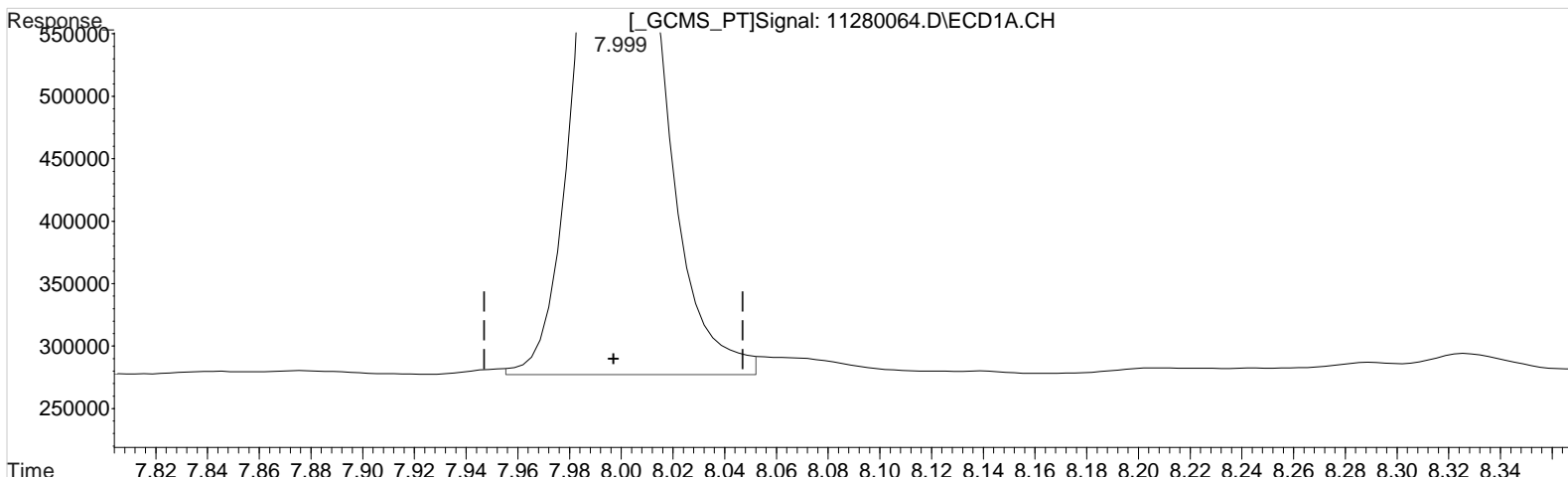
7.829min 94.922 ppb
response 4015017

(+) = Expected Retention Time

Data File : J:\gc24\data\112820\11280064.D Vial: 68
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 10:20 am Operator: SM
 Sample : K2010412-018 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 19:20:22 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



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

7.999min 68.284 ppb m
 response 1242531

Manual Integration:

After
 Baseline/Shoulder
 12/01/20

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

7.829min 94.922 ppb
 response 4015017

Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280065.D\
Lab ID: K2010412-019
RunType: N/A
Matrix: Sediment

Date Acquired: 11/29/20 10:43:00
Batch ID: 705101
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

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	25		20	CCV+ND
Analyte Coelutions - ZB-XLB-HT	Dicamba	7.83			CEND
	DCAA	7.83			CEND

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280065.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 10:43:00	Vial: 68
Run Type: N/A	Dilution: 1
Lab ID: K2010412-019	Raw Units: ppb

Bottle ID: K2010412-019.02	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/8/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot: 369613	Report Group: K2010412
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 11/11/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.00	7.83 c	1140435	3585082	62.673	84.758	63	85	63	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt
2,4,5-TP	10.27	10.14	9122	6294	0.097	0.031 ^{ccv}	0.18U	0.059U	2.8 U	Y
2,4-D	9.29 ^{-0.04}	9.05 ^{-0.02}	9775	28075	0.460	0.548	0.87U	1.0U	8.8 U	Y

Prep Amount: 30.015 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 87.80

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

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

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

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Data File : J:\gc24\data\112820\11280065.D Vial: 69
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 10:43 am Operator: SM
 Sample : K2010412-019 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 19:24:03 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.999	7.829	1140435	3585082	62.673	84.758 #
Target Compounds						
1) m Dalapon	3.139	2.879	6376	143470	0.263	2.970 #
3) m Dicamba	8.206	7.829f	10761	3585082	0.154	24.189 #
4) m MCPP	8.289	8.113	10975	14822	744.950	N.D. #
5) m MCPA	8.612	8.366	5533	58671	94.496	N.D. #
6) m Dichloroprop	8.976	8.706	15884	38030	0.852	0.912
7) m 2,4-D	9.292	9.049	9775	28075	0.460	0.548
8) m 2,4,5-TP ...	10.272	10.139	9122	6294	0.097	0.031 #
9) m 2,4,5-T	10.762f	10.549	9662	4051	0.117	0.021 #
10) m 2,4-DB	11.262	11.189	42778	14800	4.170	0.510 #
11) m Dinoseb	11.662	11.253f	71616	237904	1.158	1.740 #

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

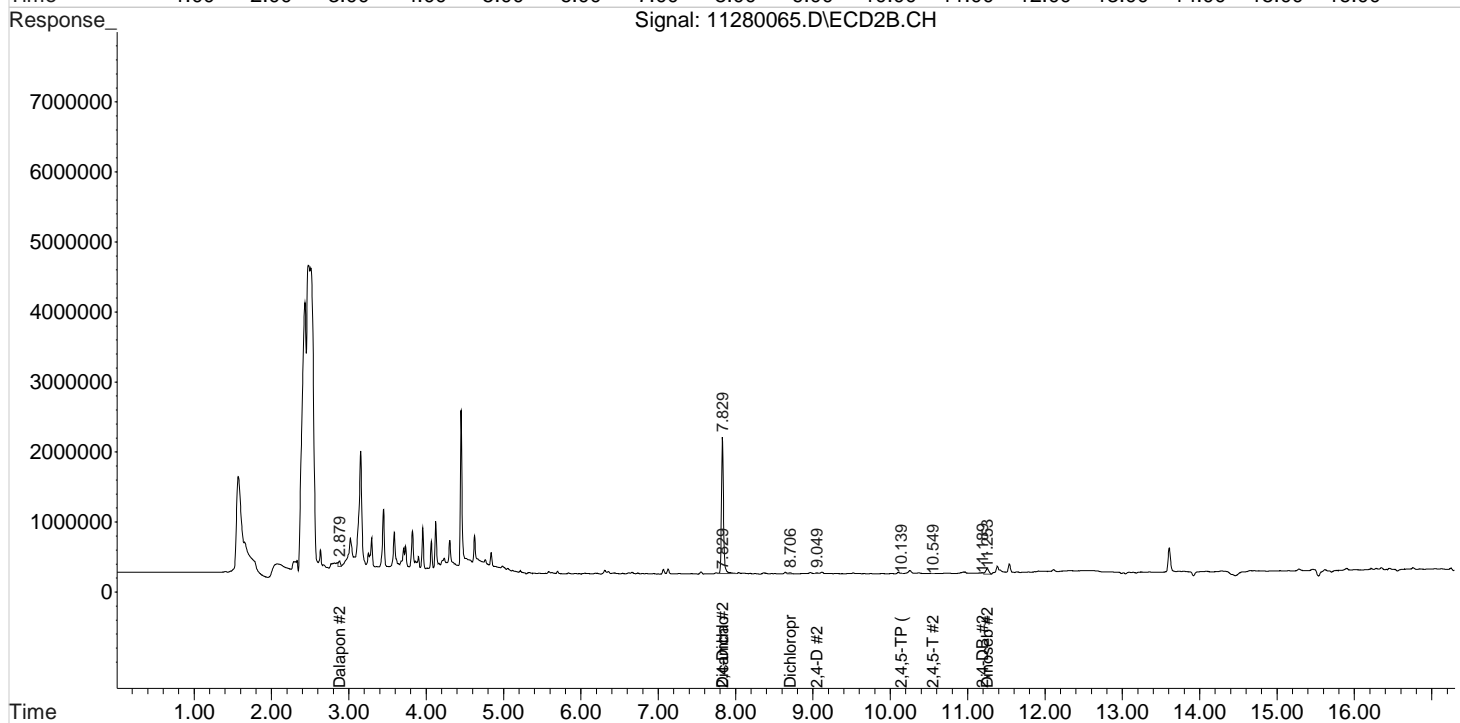
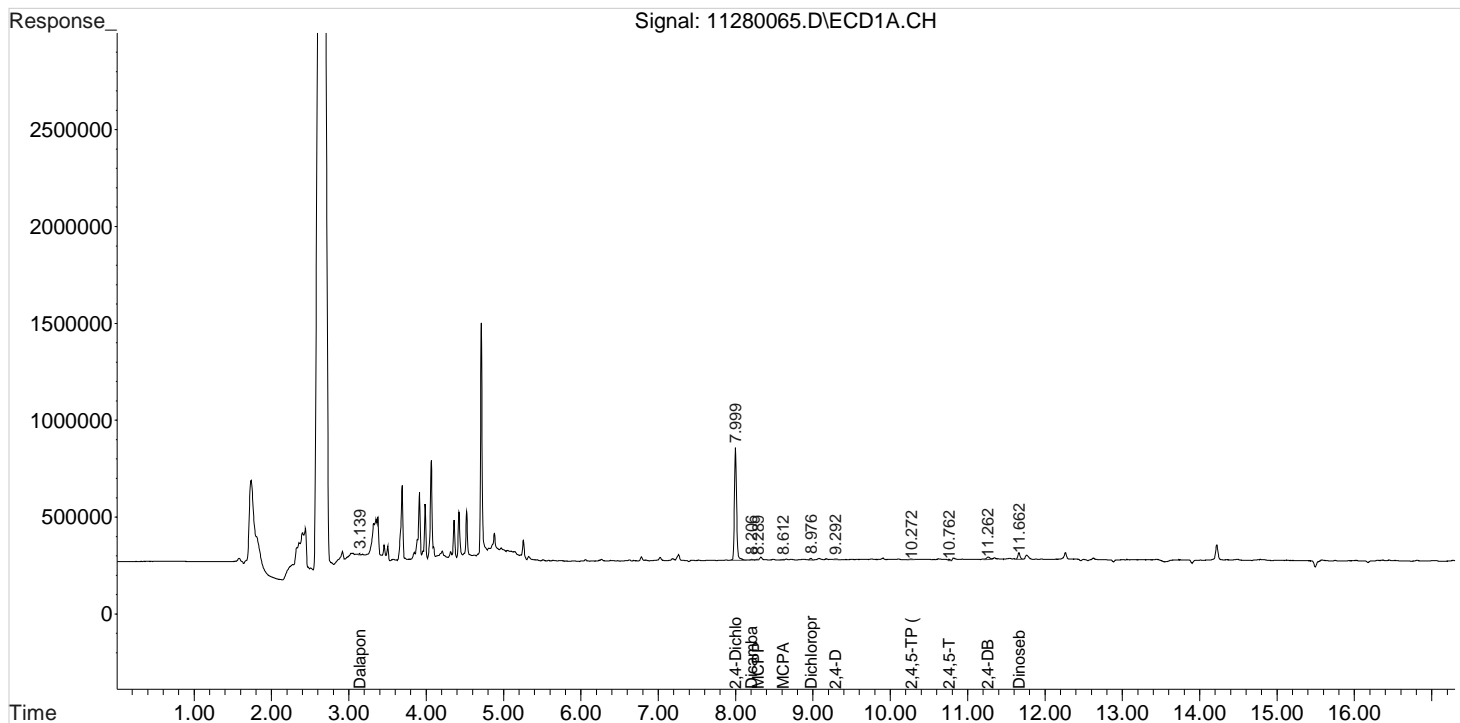
Data File : J:\gc24\data\112820\11280065.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 10:43 am
Sample : K2010412-019
Misc :

Vial: 69
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 19:24:03 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280041.D\
Lab ID: KQ2017767-04
RunType: MB
Matrix: Sediment

Date Acquired: 11/29/20 01:34:00
Batch ID: 705101
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
Analyte Coelutions - ZB-XLB-HT	Dicamba	7.82			CEND
	DCAA	7.82			CEND

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280041.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 01:34:00	Vial: 72
Run Type: MB	Dilution: 1
Lab ID: KQ2017767-04	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/7/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot: 369613	Report Group: KQ2017767
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 11/11/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	7.99	7.82 c	1223405	3650407	67.233	86.302	67	86	67	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	10.26	10.13 ^{-0.01}	8797	3844	0.094	0.019	0.15U	0.031U	2.4 U	Y
2,4-D	9.28 ^{-0.04}	9.04 ^{-0.03}	6799	40696	0.320	0.795	0.53U	1.3U	7.7 U	Y

Prep Amount: 30.4380 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: 12/2/20 14:54

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Data File : J:\gc24\data\112820\11280041.D Vial: 49
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 1:34 am Operator: SM
 Sample : KQ2017767-04MB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 11:23:35 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.989	7.819	1223405	3650407	67.233	86.302 #
Target Compounds						
1) m Dalapon	3.139	2.879	5484	168917	0.226	3.496 #
3) m Dicamba	8.235	7.819f	6008	3650407	0.086	24.629 #
4) m MCPP	8.319	8.099	6657	2948	652.030	N.D. #
5) m MCPA	8.635f	8.352	41097	35500	701.883	N.D. #
6) m Dichloroprop	8.962	8.785	66047	2018	3.542	0.048 #
7) m 2,4-D	9.279	9.035	6799	40696	0.320	0.795 #
8) m 2,4,5-TP ...	10.259	10.132	8797	3844	0.094	0.019 #
9) m 2,4,5-T	10.709	10.535	1881	4269	0.023	0.022 #
10) m 2,4-DB	11.255	11.172	37894	28990	3.694	0.999 #
11) m Dinoseb	11.652	11.372f	75028	651702	1.213	4.765 #

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

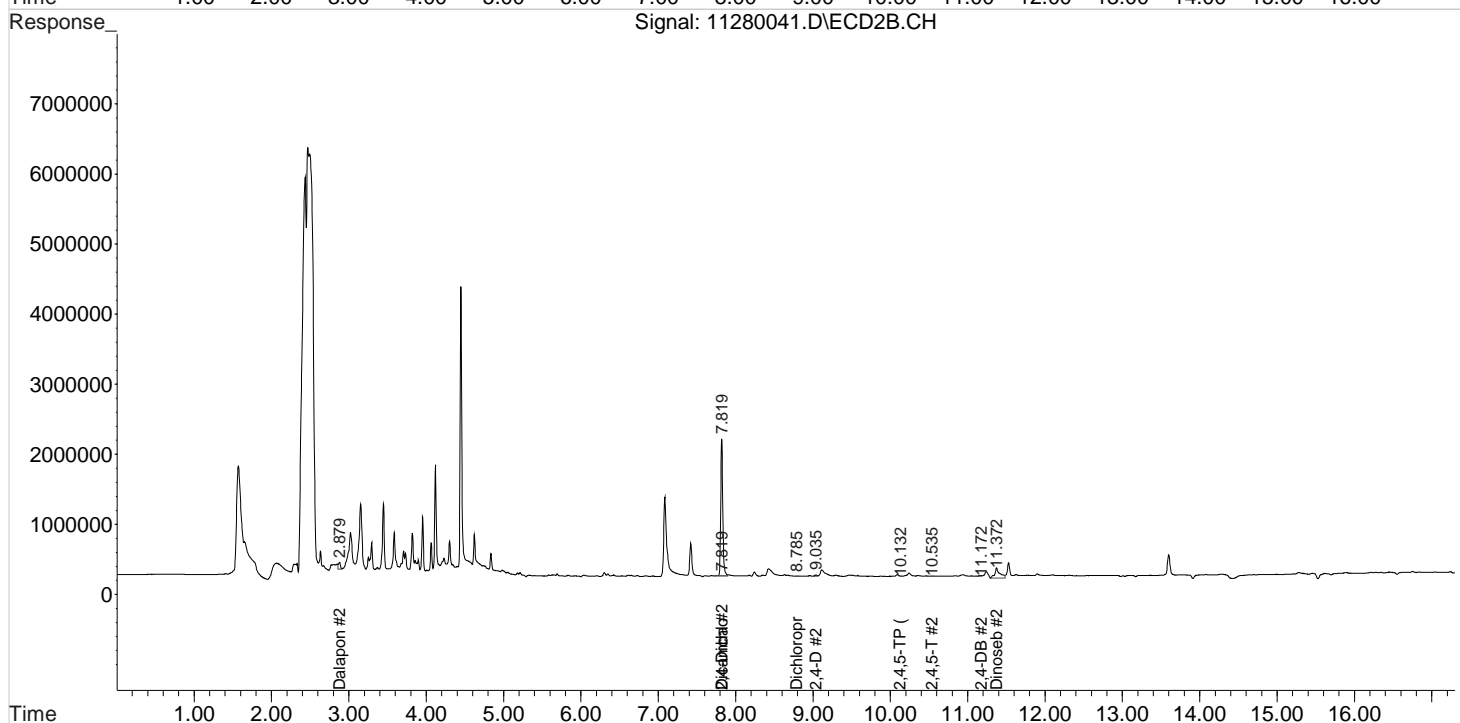
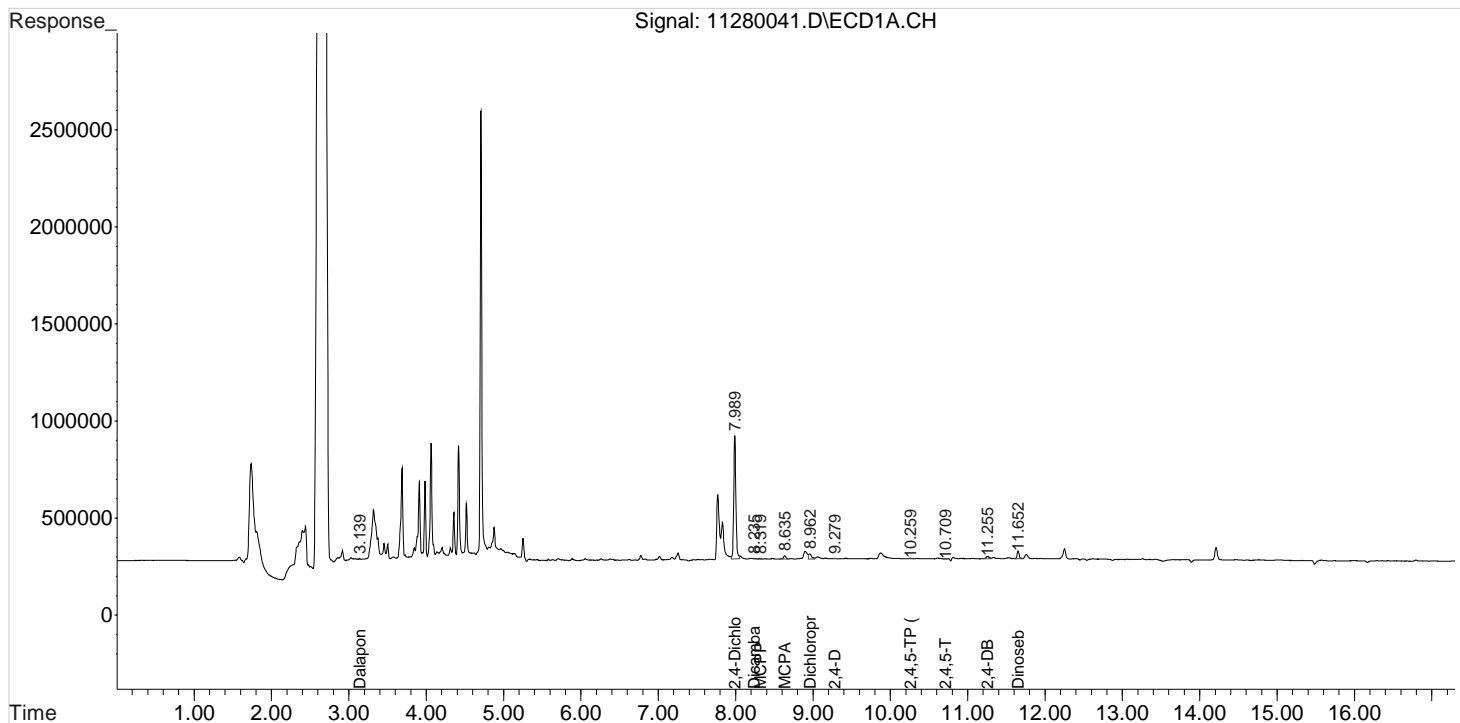
Data File : J:\gc24\data\112820\11280041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 1:34 am
Sample : KQ2017767-04MB
Misc :

Vial: 49
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 11:23:35 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280042.D\
Lab ID: KQ2017767-03
RunType: LCS
Matrix: Sediment

Date Acquired: 11/29/20 01:56:00
Batch ID: 705101
Analysis Method: 8151A/HERB

Validations

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

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280042.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 01:56:00	Vial: 71
Run Type: LCS	Dilution: 1
Lab ID: KQ2017767-03	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/7/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot: 369613	Report Group: KQ2017767
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 11/11/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	7.99	7.82	1180622	3615678	64.881	85.481	65	85	65	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt
2,4,5-TP	10.26	10.14	5460146	14849408	58.284	73.150	97.1	122	97.1	Y
2,4-D	9.32	9.07	1171818	3544460	55.170	69.230	92.0	115	92.0	Y

Prep Amount: 30.00 g	Dilution: 1
Prep Final Amount: 50.00 mL	Basis Factor: 100.00

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

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

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

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Data File : J:\gc24\data\112820\11280042.D Vial: 50
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 1:56 am Operator: SM
 Sample : KQ2017767-03LCS Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 11:23:38 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	7.991	7.825	1180622	3615678	64.881	85.481 #
Target Compounds						
1) m Dalapon	3.125	2.878	1354994	4482992	55.857	92.791 #
3) m Dicamba	8.215	7.928	4545318	11547841	65.119	77.914
4) m MCPP	8.298	8.115	308881	1556275	7155.640	9337.260 #
5) m MCPA	8.561	8.361	378229	2027561	6459.653	8837.344 #
6) m Dichloroprop	8.965	8.761	1153636	3086680	61.865	73.994
7) m 2,4-D	9.318	9.068	1171818	3544460	55.170	69.230 #
8) m 2,4,5-TP ...	10.258	10.138	5460146	14849408	58.284	73.150 #
9) m 2,4,5-T	10.705	10.541	4124005	11437287	49.982	59.766
10) m 2,4-DB	11.281	11.175	795359	1573739	77.525	54.237 #
11) m Dinoseb	11.678	11.325	2914722	7407688	47.113	54.167

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

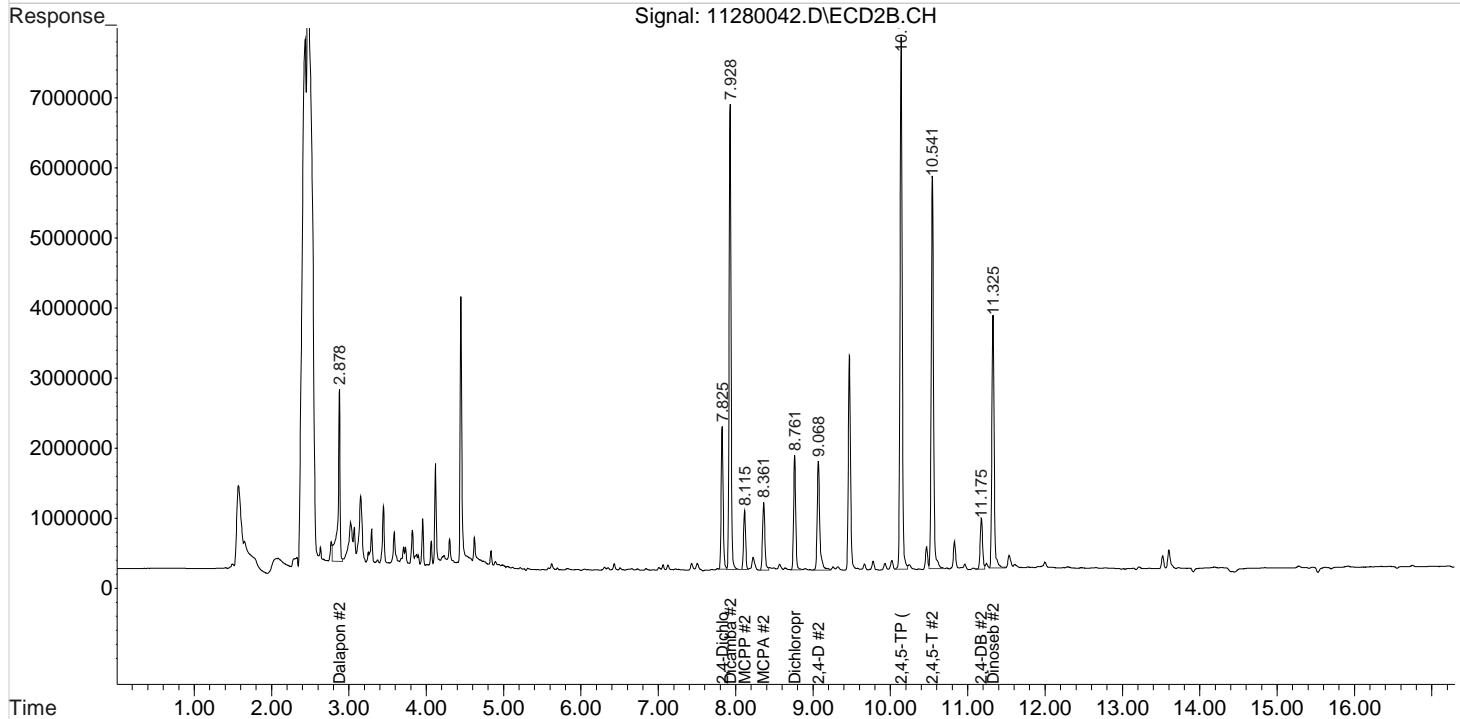
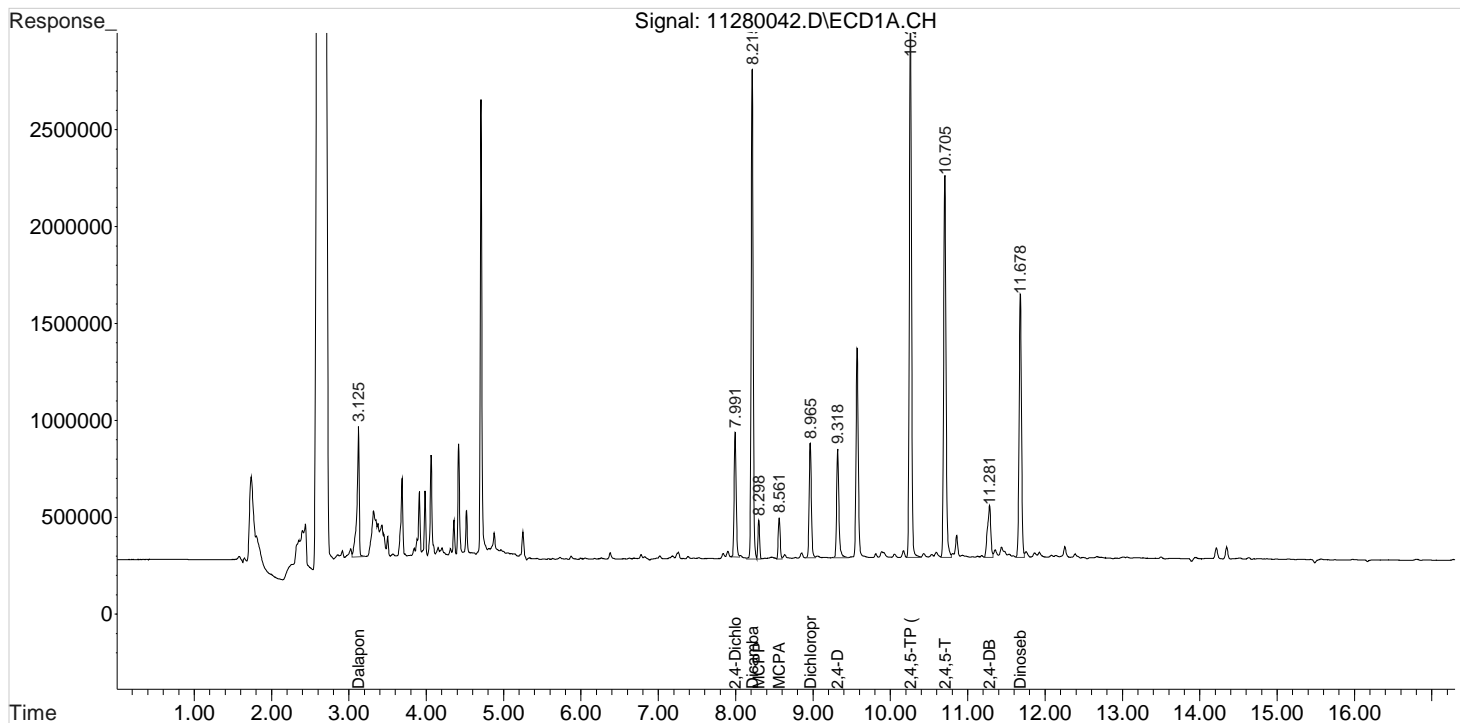
Data File : J:\gc24\data\112820\11280042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 1:56 am
Sample : KQ2017767-03LCS
Misc :

Vial: 50
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 11:23:38 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2
Signal #1 Info : 0.25 mm
Signal #2 Phase: ZB-XLB-HT
Signal #2 Info : 0.25 mm



Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280066.D\
Lab ID: KQ2017767-01
RunType: MS
Matrix: Sediment

Date Acquired: 11/29/20 11:05:00
Batch ID: 705101
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 (Closing) - ZB-XLB-HT	2,4,5-TP	25		20	RO

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280066.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 11:05:00	Vial: 69
Run Type: MS	Dilution: 1
Lab ID: KQ2017767-01	Raw Units: ppb

Bottle ID: K2010412-019.02	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/8/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot: 369613	Report Group: KQ2017767
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 11/11/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.00	7.83	1254997	3859487	68.969	91.245	69	91	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	10.26 ^{-0.01}	10.14	5524836	15070618	58.975	74.240 ^{CCV}	111	140	111	Y
2,4-D	9.33	9.07	1166813	3531921	54.934	68.985	104	130	104	Y

Prep Amount: 30.135 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 87.80

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: 12/2/20 14:54

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Data File : J:\gc24\data\112820\11280066.D Vial: 70
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 11:05 am Operator: SM
 Sample : KQ2017767-01MS Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 19:24:06 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.995	7.829	1254997	3859487	68.969	91.245 #
Target Compounds						
1) m Dalapon	3.125	2.879	1197876	3395294	49.380	70.277 #
3) m Dicamba	8.219	7.932	4611154	11715846	66.063	79.047
4) m MCPP	8.302	8.119	327451	1555225	7555.251	9330.004
5) m MCPA	8.569	8.366	377124	2014066	6440.781	8766.019 #
6) m Dichloroprop	8.969	8.766	1121423	3163404	60.137	75.834 #
7) m 2,4-D	9.325	9.072	1166813	3531921	54.934	68.985 #
8) m 2,4,5-TP ...	10.262	10.142	5524836	15070618	58.975	74.240 #
9) m 2,4,5-T	10.709	10.546	4200341	11921522	50.907	62.297
10) m 2,4-DB	11.285	11.179	708986	1503162	69.106	51.805 #
11) m Dinoseb	11.685	11.329	2536394	6637471	40.998	48.535

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

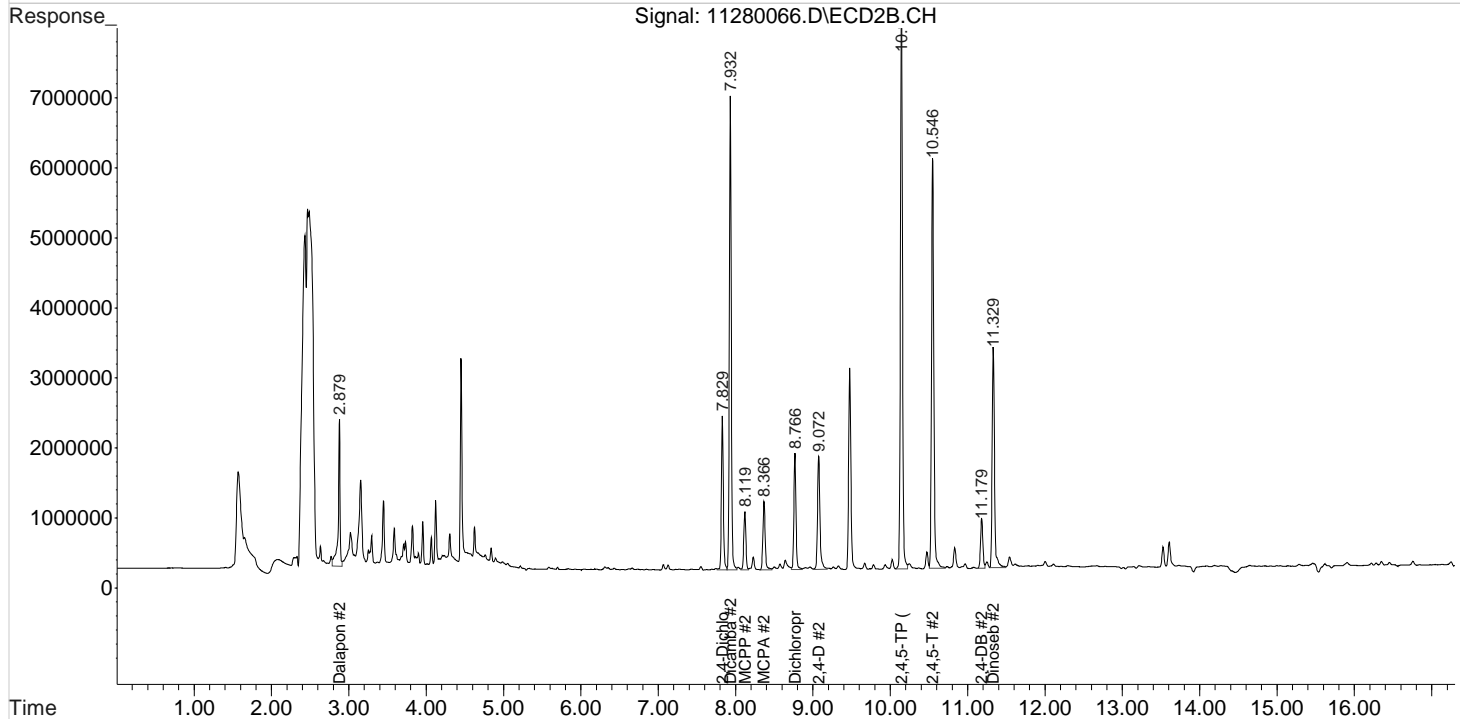
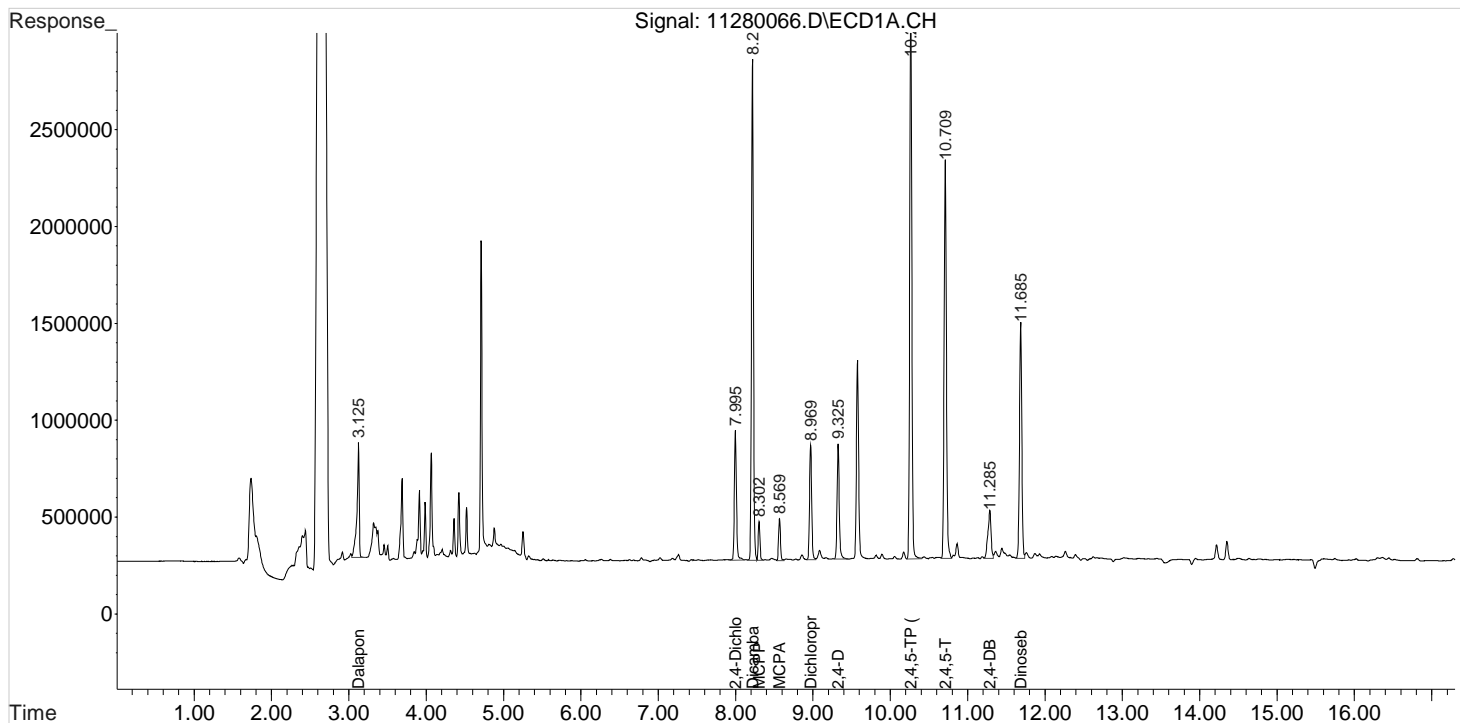
Data File : J:\gc24\data\112820\11280066.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 11:05 am
Sample : KQ2017767-01MS
Misc :

Vial: 70
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 19:24:06 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2
Signal #1 Info : 0.25 mm
Signal #2 Phase: ZB-XLB-HT
Signal #2 Info : 0.25 mm



Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280067.D\
Lab ID: KQ2017767-02
RunType: DMS
Matrix: Sediment

Date Acquired: 11/29/20 11:28:00
Batch ID: 705101
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 (Closing) - ZB-XLB-HT	2,4,5-TP	25		20	RO

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280067.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 11:28:00	Vial: 70
Run Type: DMS	Dilution: 1
Lab ID: KQ2017767-02	Raw Units: ppb

Bottle ID: K2010412-019.02	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/8/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot: 369613	Report Group: KQ2017767
Analysis Method: 8151A	Prep Method: Method	
	Prep Date: 11/11/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.00	7.83	1325449	4196343	72.840	99.209	73	99	73	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt
2,4,5-TP	10.26 ^{-0.01}	10.14	5934938	16465806	63.353	81.113 ^{CCV}	120	154	120	Y
2,4-D	9.32 ^{-0.01}	9.07	1265901	3817960	59.599	74.572	113	141	113	Y

Prep Amount: 30.054 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 87.80

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

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

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

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Data File : J:\gc24\data\112820\11280067.D Vial: 71
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 11:28 am Operator: SM
 Sample : KQ2017767-02DMS Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 19:24:09 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.997	7.827	1325449	4196343	72.840	99.209 #
Target Compounds						
1) m Dalapon	3.124	2.877	1314488	2877419	54.187	59.558
3) m Dicamba	8.217	7.931	4947764	12825787	70.885	86.536
4) m MCPP	8.304	8.117	342895	1673393	7887.594	10146.708 #
5) m MCPA	8.567	8.364	407714	2163244	6963.218	9554.465 #
6) m Dichloroprop	8.967	8.767	1210444	3411455	64.911	81.780 #
7) m 2,4-D	9.324	9.071	1265901	3817960	59.599	74.572 #
8) m 2,4,5-TP ...	10.264	10.144	5934938	16465806	63.353	81.113 #
9) m 2,4,5-T	10.710	10.544	4583558	12966633	55.552	67.758
10) m 2,4-DB	11.287	11.181	832764	1757502	81.171	60.570 #
11) m Dinoseb	11.687	11.331	2292216	5628645	37.051	41.158

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

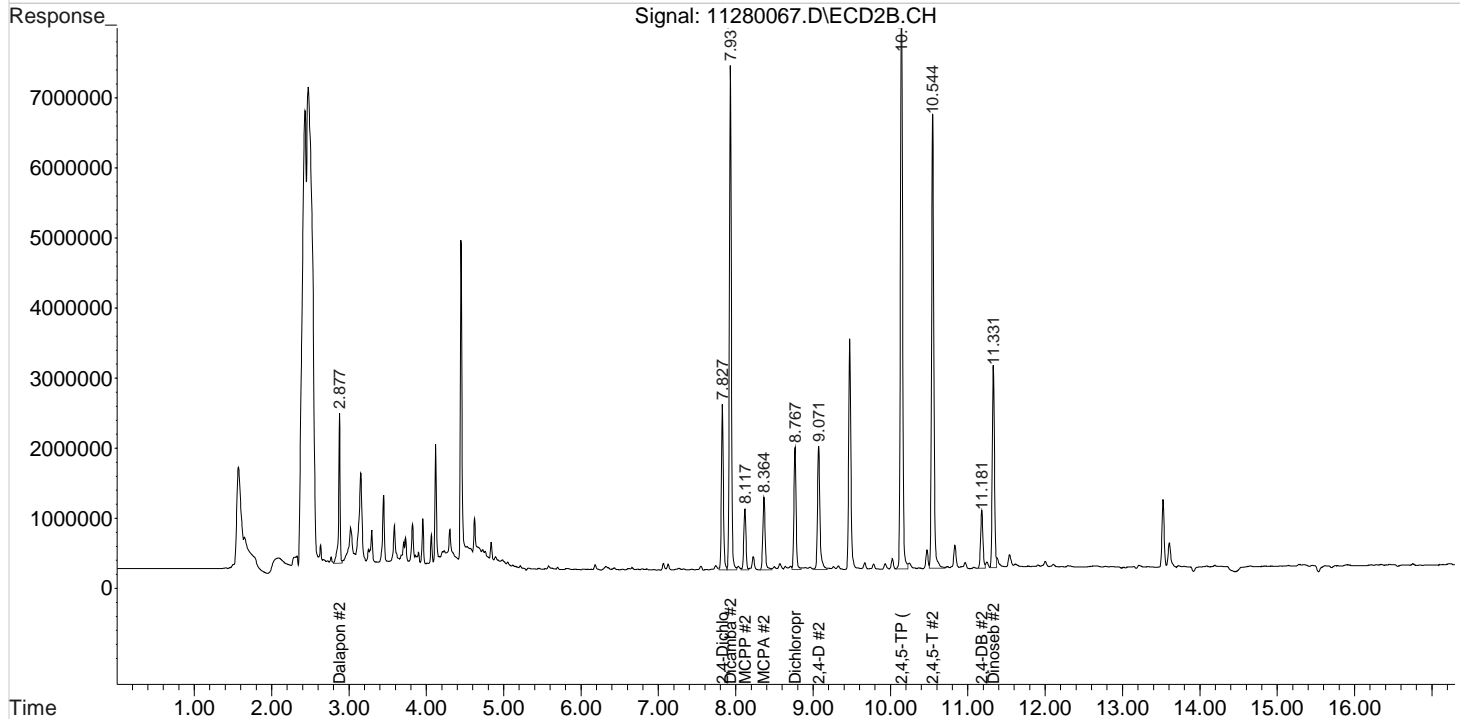
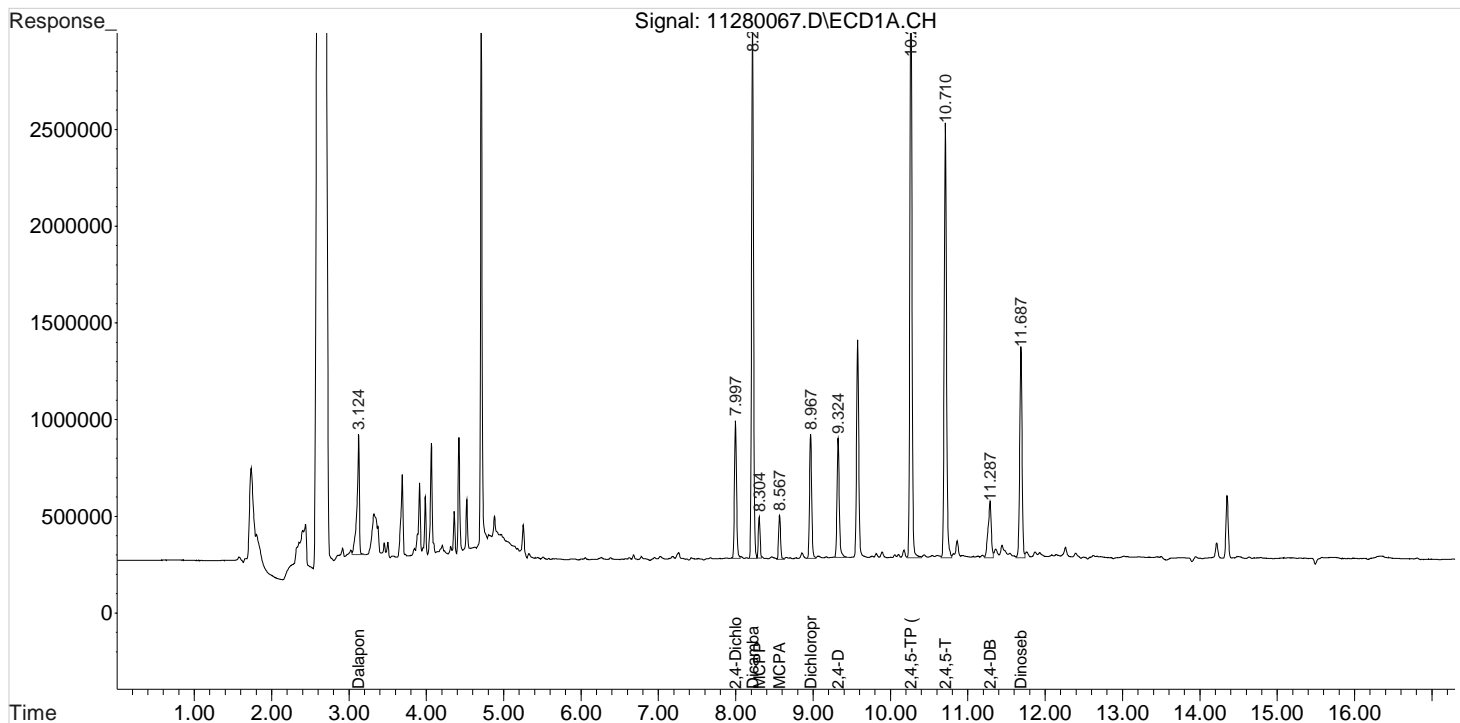
Data File : J:\gc24\data\112820\11280067.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 11:28 am
Sample : KQ2017767-02DMS
Misc :

Vial: 71
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 19:24:09 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2
Signal #1 Info : 0.25 mm
Signal #2 Phase: ZB-XLB-HT
Signal #2 Info : 0.25 mm



Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280003.D\
Lab ID: KQ2018923-02
RunType: CCB
Matrix: Sediment

Date Acquired: 11/28/20 11:05:00
Batch ID: 705101
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 - ZB-XLB-HT	2,4,5-TP	22		20	CCV+ND

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 12/02/20
2nd *AW* 12/02/20

Data File: J:\gc24\data\112820\11280003.D\	Instrument: K-GC-24
Acqu Date: 11/28/20 11:05:00	Vial: 18
Run Type: CCB	Dilution: 1
Lab ID: KQ2018923-02	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.01 ^{+0.02}	7.84 ^{+0.02}	7413	46794	0.407	1.106				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	10.27 ^{+0.01}	10.10 ^{-0.03}	3613	55715	0.039	0.274 ^{CCV}	0.065U	0.46U	2.4 U	Y
2,4-D	0.00	9.05 ^{-0.01}	0	137059	0.000	2.677	0U	4.5U	7.7 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

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Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280003.D\	Instrument: K-GC-24
Acqu Date: 11/28/20 11:05:00	Vial: 18
Run Type: CCB	Dilution: 1
Lab ID: KQ2018923-02	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.01 ^{+0.02}	7.84 ^{+0.02}	7413	46794	0.407	1.106				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	10.72 ^{+0.02}	10.53 ^{-0.01}	6104	9755	0.074	0.051	0.12U	0.085U	4.0 U	Y
2,4,5-TP (Silvex)	10.27 ^{+0.01}	10.10 ^{-0.03}	3613	55715	0.039	0.274 ^{CCV}	0.065U	0.46U	2.4 U	Y
2,4-D	0.00	9.05 ^{-0.01}	0	137059	0.000	2.677	0U	4.5U	7.7 U	Y
2,4-DB	11.26 ^{-0.02}	0.00	33900	0	3.304	0.000	5.5J	0U	5.4 U	Y
Dalapon	0.00	2.84 ^{-0.03}	0	10998	0.000 ^{CCV}	0.228 ^{CCV}	0U	0.38U	5.5 U	Y
Dicamba	0.00	7.93 ^{+0.01}	0	7711	0.000	0.052 ^{CCV}	0U	0.087U	4.3 U	Y
Dichlorprop	9.00 ^{+0.04}	8.77 ^{+0.02}	4994	5933	0.268	0.142 ^{CCV}	0.45U	0.24U	3.4 U	Y
Dinoseb	0.00	11.33 ^{+0.01}	0	12859	0.000	0.094	0U	0.16U	2.7 U	Y
MCPA	0.00	0.00	0	6141	0.000	0.000 ^{CCV}	0U	0U	320 U	Y
MCPP	8.31 ^{+0.02}	0.00	5600	7272	629.284	0.000 ^{CCV}	1000J	0U	460 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

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Data File : J:\gc24\data\112820\11280003.D Vial: 17
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 28 Nov 2020 11:05 am Operator: SM
 Sample : IB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 11:43:11 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	8.013	7.843f	7413	46794	0.407	1.106 #
Target Compounds						
1) m Dalapon	0.000	2.843f	0	10998	N.D. d	0.228
3) m Dicamba	0.000	7.933	0	7711	N.D. d	0.052
4) m MCPP	8.306	8.133	5600	7272	629.284	N.D. #
5) m MCPA	0.000	8.380	0	6141	N.D. d	N.D.
6) m Dichloroprop	9.003	8.770	4994	5933	0.268	0.142 #
7) m 2,4-D	0.000	9.053	0	137059	N.D. d	2.677
8) m 2,4,5-TP ...	10.273	10.103	3613	55715	0.039	0.274 #
9) m 2,4,5-T	10.716	10.526	6104	9755	0.074	0.051 #
10) m 2,4-DB	11.263	0.000	33900	0	3.304	N.D. d#
11) m Dinoseb	0.000	11.333	0	12859	N.D. d	0.094

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

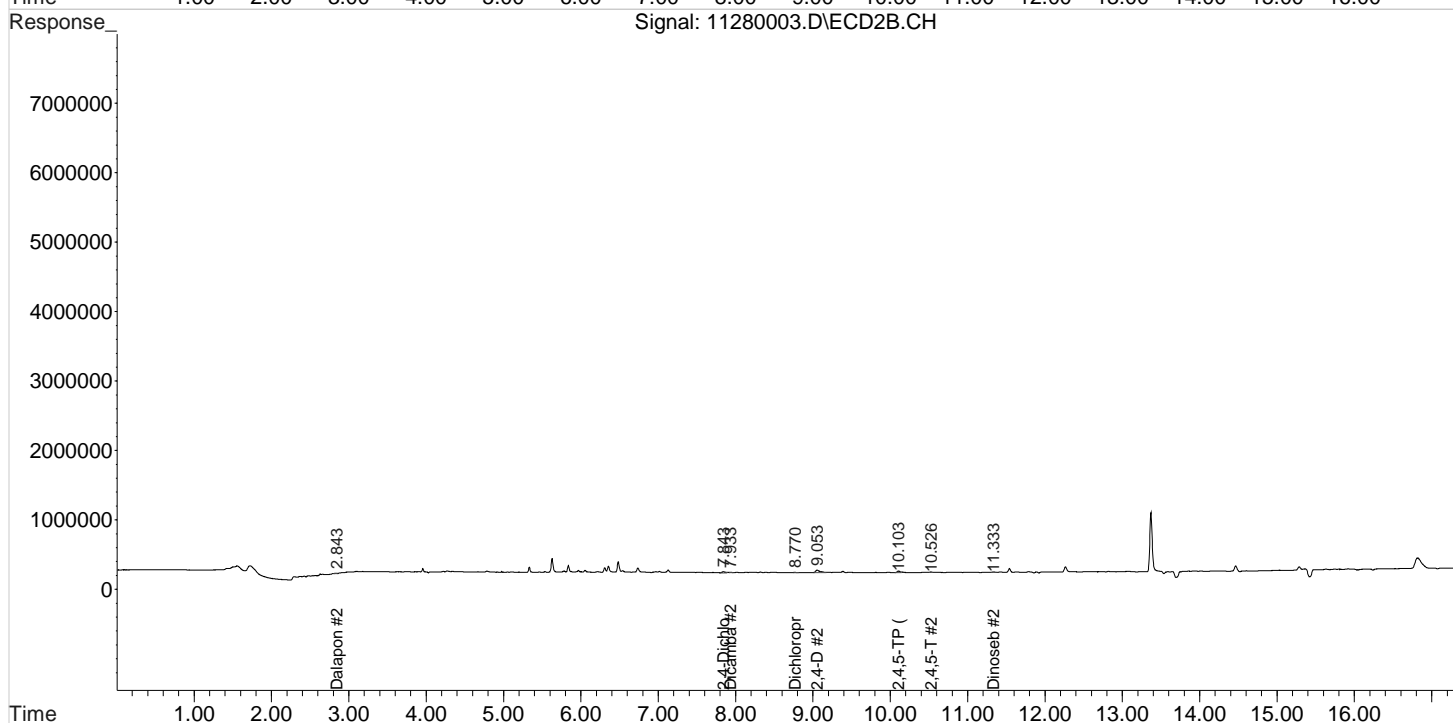
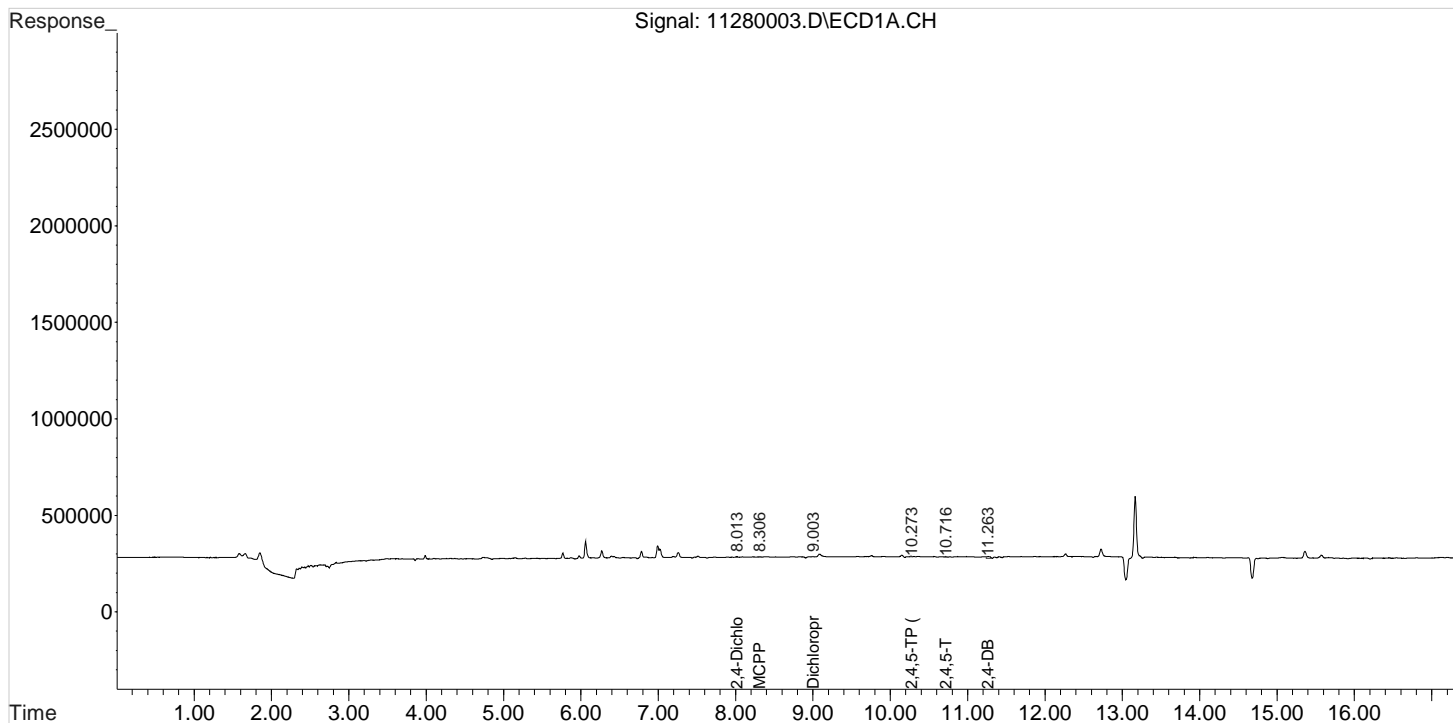
Data File : J:\gc24\data\112820\11280003.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 28 Nov 2020 11:05 am
 Sample : IB
 Misc :

Vial: 17
 Operator: SM
 Inst : HP G1530A
 Multiplr: 1.00

Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 11:43:11 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2
 Signal #1 Info : 0.25 mm
 Signal #2 Phase : ZB-XLB-HT
 Signal #2 Info : 0.25 mm



Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280015.D\
Lab ID: KQ2018923-04
RunType: CCB
Matrix: Sediment

Date Acquired: 11/28/20 15:39:00
Batch ID: 705101
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Surrogates	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 12/02/20
2nd *AW* 12/02/20

Data File: J:\gc24\data\112820\11280015.D\	Instrument: K-GC-24
Acqu Date: 11/28/20 15:39:00	Vial: 16
Run Type: CCB	Dilution: 1
Lab ID: KQ2018923-04	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.01 ^{+0.02}	7.84 ^{+0.02}	7518	60795	0.413	1.437				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	10.14	0	17663	0.000	0.087	0U	0.15U	2.4 U	Y
2,4-D	0.00	9.05 ^{-0.01}	0	150924	0.000	2.948	0U	4.9U	7.7 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

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Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280015.D\	Instrument: K-GC-24
Acqu Date: 11/28/20 15:39:00	Vial: 16
Run Type: CCB	Dilution: 1
Lab ID: KQ2018923-04	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.01 ^{+0.02}	7.84 ^{+0.02}	7518	60795	0.413	1.437				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	10.71 ^{+0.01}	10.53 ^{-0.01}	3812	6853	0.046	0.036	0.077U	0.060U	4.0 U	Y
2,4,5-TP (Silvex)	0.00	10.14	0	17663	0.000	0.087	0U	0.15U	2.4 U	Y
2,4-D	0.00	9.05 ^{-0.01}	0	150924	0.000	2.948	0U	4.9U	7.7 U	Y
2,4-DB	0.00	11.23 ^{+0.06}	0	19205	0.000	0.662	0U	1.1U	5.4 U	Y
Dalapon	0.00	2.88	0	13495	0.000 ^{CCV}	0.279 ^{CCV}	0U	0.47U	5.5 U	Y
Dicamba	0.00	7.93 ^{+0.01}	0	8647	0.000	0.058 ^{CCV}	0U	0.097U	4.3 U	Y
Dichlorprop	9.00 ^{+0.04}	8.76	2867	5829	0.154	0.140 ^{CCV}	0.26U	0.23U	3.4 U	Y
Dinoseb	0.00	11.33 ^{+0.01}	0	12592	0.000	0.092	0U	0.15U	2.7 U	Y
MCPA	0.00	0.00	0	7119	0.000	0.000 ^{CCV}	0U	0U	320 U	Y
MCPP	8.30	0.00	2567	8182	564.016	0.000 ^{CCV}	940J	0U	460 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

Printed: 11/30/20 7:36

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Data File : J:\gc24\data\112820\11280015.D Vial: 17
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 28 Nov 2020 3:39 pm Operator: SM
 Sample : IB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 11:47:51 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	8.007	7.837	7518	60795	0.413	1.437 #
Target Compounds						
1) m Dalapon	0.000	2.884	0	13495	N.D. d	0.279
3) m Dicamba	0.000	7.930	0	8647	N.D. d	0.058
4) m MCPP	8.300	8.124	2567	8182	564.016	N.D. #
5) m MCPA	0.000	8.377	0	7119	N.D. d	N.D.
6) m Dichloroprop	8.997	8.764	2867	5829	0.154	0.140
7) m 2,4-D	0.000	9.047	0	150924	N.D. d	2.948
8) m 2,4,5-TP ...	0.000	10.140	0	17663	N.D. d	0.087
9) m 2,4,5-T	10.710	10.527	3812	6853	0.046	0.036
10) m 2,4-DB	0.000	11.227f	0	19205	N.D. d	0.662
11) m Dinoseb	0.000	11.327	0	12592	N.D. d	0.092

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

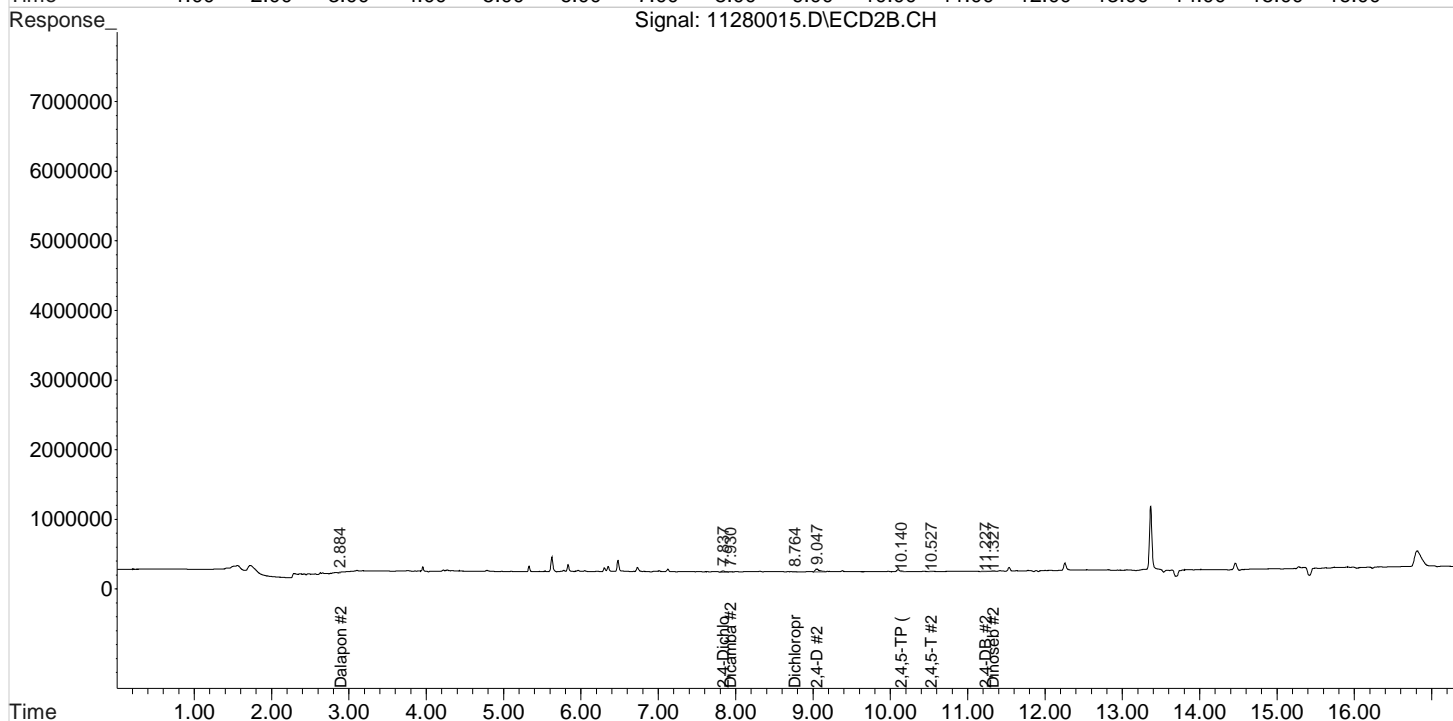
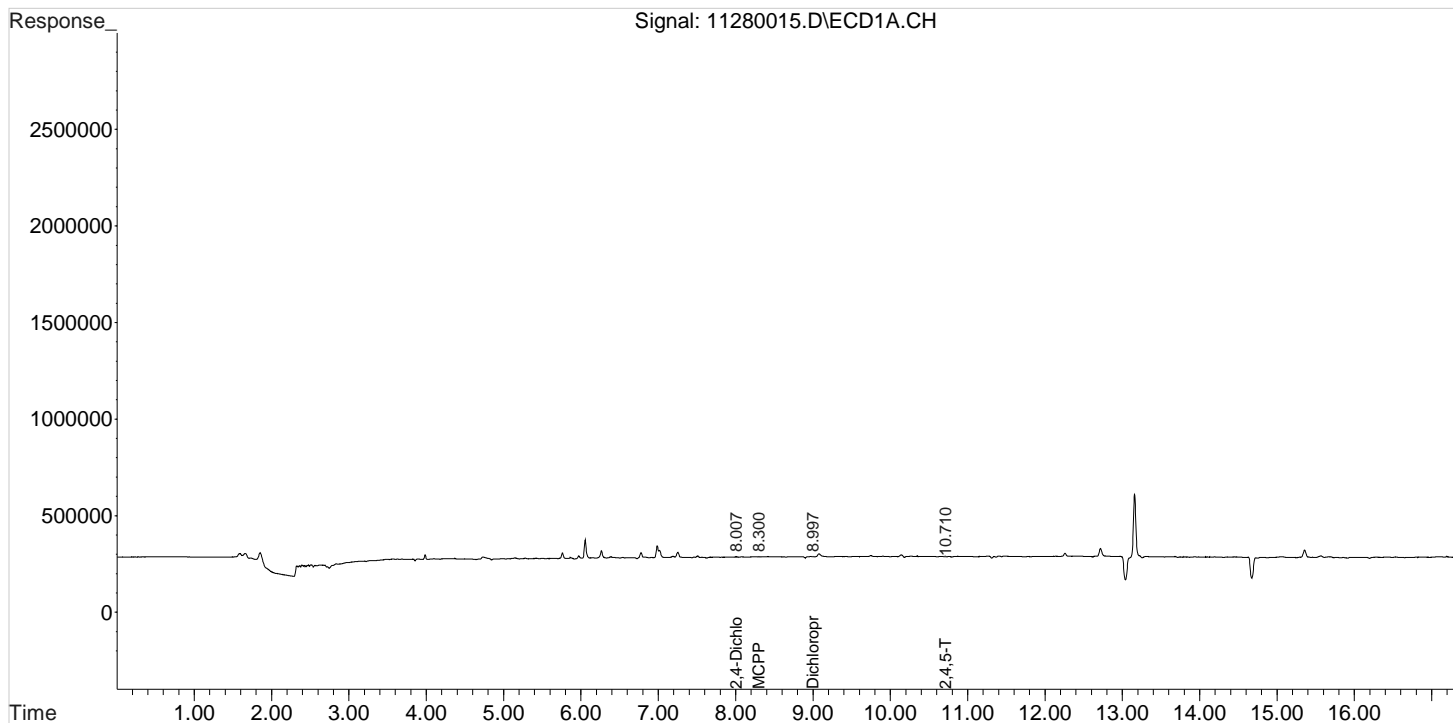
Data File : J:\gc24\data\112820\11280015.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Nov 2020 3:39 pm
Sample : IB
Misc :

Vial: 17
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 11:47:51 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st SM 11/29/20
2nd ^{JA} 12/01/20

Data File: J:\gc24\data\112820\11280027.D\
Lab ID: KQ2018923-06
RunType: CCB
Matrix: Sediment

Date Acquired: 11/28/20 20:14:00
Batch ID: 705101
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Surrogates	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 12/02/20
2nd *AW* 12/02/20

Data File: J:\gc24\data\112820\11280027.D\	Instrument: K-GC-24
Acqu Date: 11/28/20 20:14:00	Vial: 14
Run Type: CCB	Dilution: 1
Lab ID: KQ2018923-06	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.01 ^{+0.02}	7.84 ^{+0.02}	6926	46913	0.381	1.109				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	10.26	10.10 ^{-0.03}	3377	83217	0.036	0.410	0.060U	0.68U	2.4 U	Y
2,4-D	0.00	9.05 ^{-0.02}	0	157101	0.000	3.068	0U	5.1U	7.7 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

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Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280027.D\	Instrument: K-GC-24
Acqu Date: 11/28/20 20:14:00	Vial: 14
Run Type: CCB	Dilution: 1
Lab ID: KQ2018923-06	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.01 ^{+0.02}	7.84 ^{+0.02}	6926	46913	0.381	1.109				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	10.71 ^{+0.01}	10.52 ^{-0.02}	3842	9582	0.047	0.050	0.078U	0.083U	4.0 U	Y
2,4,5-TP (Silvex)	10.26	10.10 ^{-0.03}	3377	83217	0.036	0.410	0.060U	0.68U	2.4 U	Y
2,4-D	0.00	9.05 ^{-0.02}	0	157101	0.000	3.068	0U	5.1U	7.7 U	Y
2,4-DB	11.26 ^{-0.02}	0.00	39599	0	3.860	0.000	6.4J	0U	5.4 U	Y
Dalapon	0.00	2.90 ^{+0.02}	0	45316	0.000	0.938	0U	1.6U	5.5 U	Y
Dicamba	0.00	7.93 ^{+0.01}	0	7473	0.000	0.050 ^{CCV}	0U	0.083U	4.3 U	Y
Dichlorprop	9.00 ^{+0.04}	8.76	44803	4596	2.403	0.110 ^{CCV}	4.0J	0.18U	3.4 U	Y
Dinoseb	0.00	11.33 ^{+0.01}	0	13702	0.000	0.100	0U	0.17U	2.7 U	Y
MCPA	8.59 ^{+0.03}	0.00	2224	0	37.983	0.000 ^{CCV}	63U	0U	320 U	Y
MCPP	8.30 ^{+0.01}	0.00	4703	0	609.981	0.000 ^{CCV}	1000J	0U	460 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

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Data File : J:\gc24\data\112820\11280027.D Vial: 17
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 28 Nov 2020 8:14 pm Operator: SM
 Sample : IB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 11:52:25 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	8.008	7.838	6926	46913	0.381	1.109 #
Target Compounds						
1) m Dalapon	0.000	2.905f	0	45316	N.D. d	0.938
3) m Dicamba	0.000	7.928	0	7473	N.D. d	0.050
4) m MCPP	8.304	0.000	4703	0	609.981	N.D. d#
5) m MCPA	8.594	0.000	2224	0	37.983	N.D. d#
6) m Dichloroprop	8.998	8.765	44803	4596	2.403	0.110 #
7) m 2,4-D	0.000	9.048	0	157101	N.D. d	3.068
8) m 2,4,5-TP ...	10.264	10.098	3377	83217	0.036	0.410 #
9) m 2,4,5-T	10.711	10.521	3842	9582	0.047	0.050
10) m 2,4-DB	11.258	0.000	39599	0	3.860	N.D. d#
11) m Dinoseb	0.000	11.331	0	13702	N.D. d	0.100

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

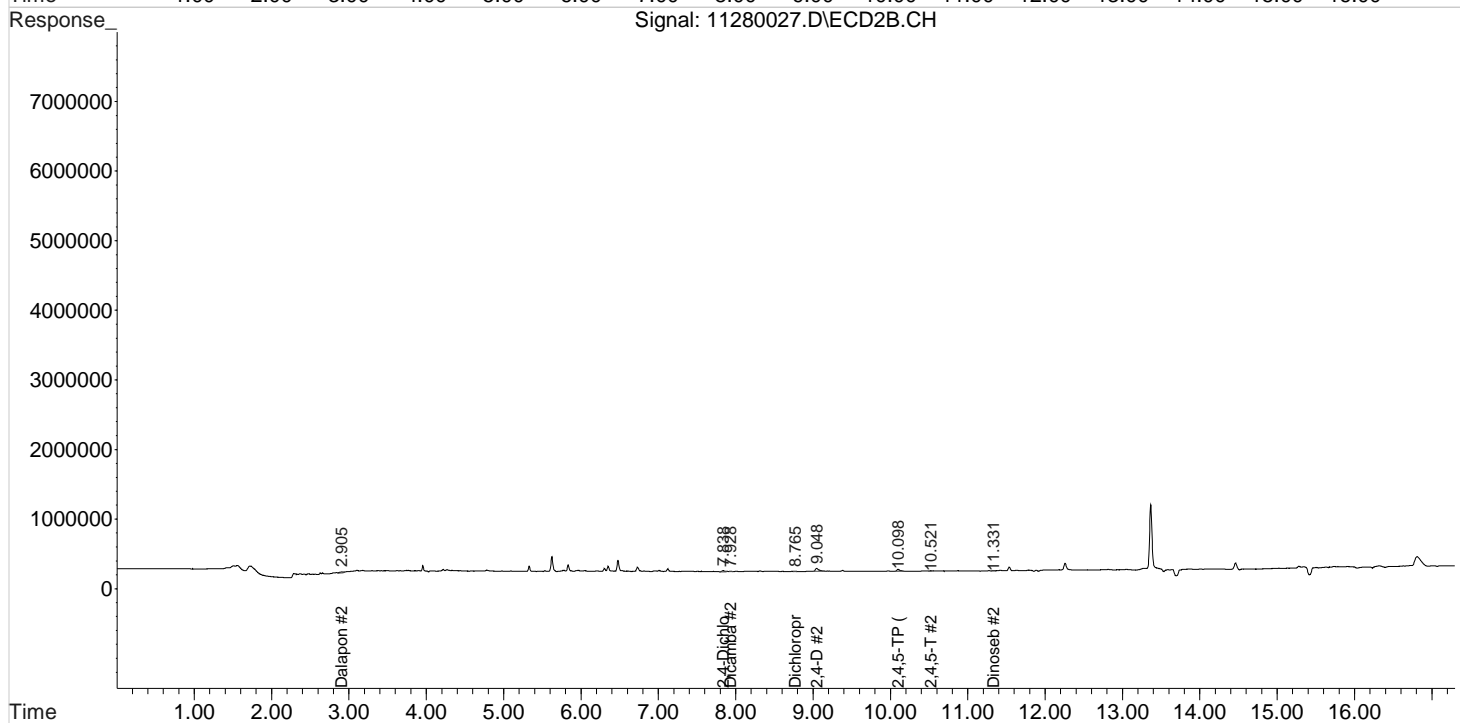
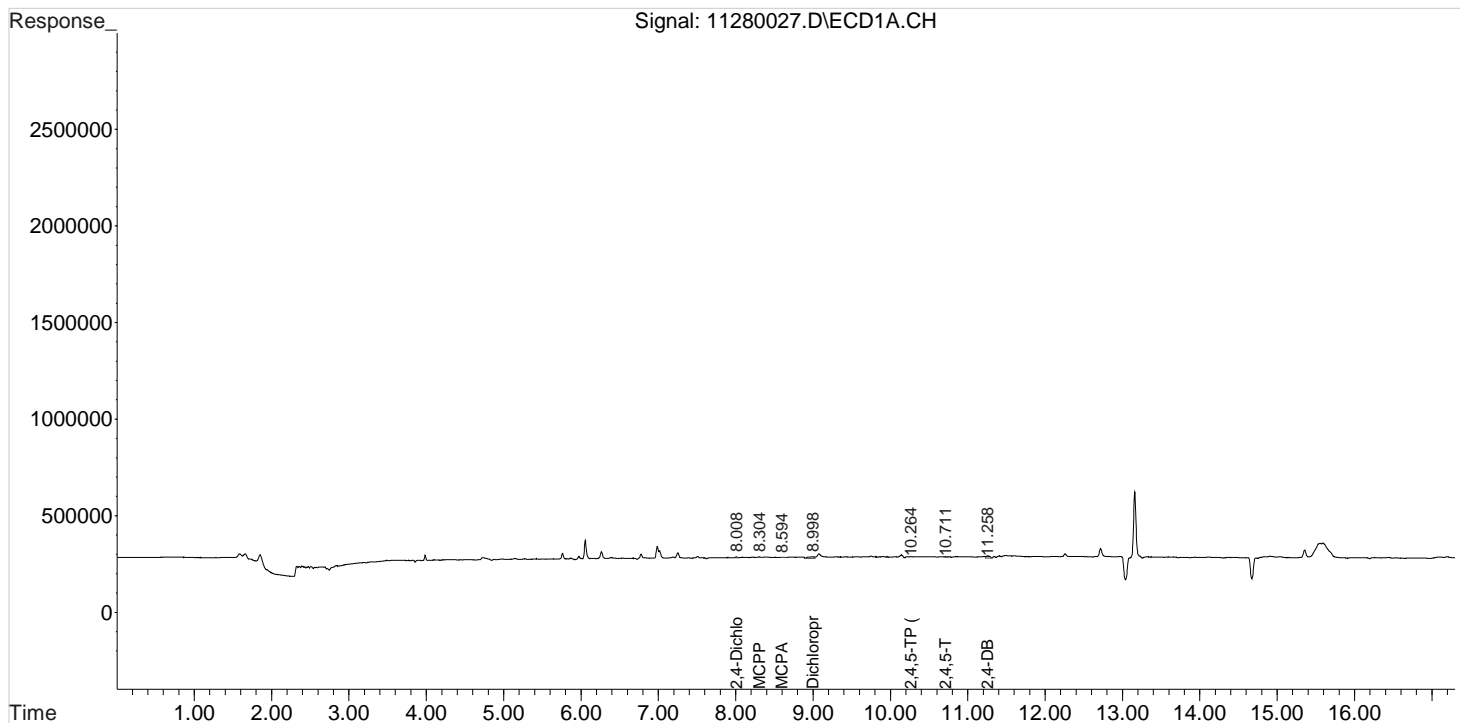
Data File : J:\gc24\data\112820\11280027.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Nov 2020 8:14 pm
Sample : IB
Misc :

Vial: 17
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 11:52:25 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280038.D\
Lab ID: KQ2018923-08
RunType: CCB
Matrix: Sediment

Date Acquired: 11/29/20 00:25:00
Batch ID: 705101
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Surrogates	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 12/02/20
2nd *AW* 12/02/20

Data File: J:\gc24\data\112820\11280038.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 00:25:00	Vial: 12
Run Type: CCB	Dilution: 1
Lab ID: KQ2018923-08	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.01 ^{+0.02}	7.84 ^{+0.02}	7149	47629	0.393	1.126				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	10.26	10.10 ^{-0.04}	3694	85009	0.039	0.419	0.065U	0.70U	2.4 U	Y
2,4-D	0.00	9.04 ^{-0.03}	0	159517	0.000	3.116	0U	5.2U	7.7 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

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Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280038.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 00:25:00	Vial: 12
Run Type: CCB	Dilution: 1
Lab ID: KQ2018923-08	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.01 ^{+0.02}	7.84 ^{+0.02}	7149	47629	0.393	1.126				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	10.71 ^{+0.01}	10.53 ^{-0.01}	3773	6174	0.046	0.032	0.077U	0.053U	4.0 U	Y
2,4,5-TP (Silvex)	10.26	10.10 ^{-0.04}	3694	85009	0.039	0.419	0.065U	0.70U	2.4 U	Y
2,4-D	0.00	9.04 ^{-0.03}	0	159517	0.000	3.116	0U	5.2U	7.7 U	Y
2,4-DB	11.26 ^{-0.02}	0.00	41611	0	4.056 ^{CCV}	0.000	6.8J	0U	5.4 U	Y
Dalapon	3.13 ^{+0.01}	2.84 ^{-0.04}	38340	21517	1.580	0.445	2.6U	0.74U	5.5 U	Y
Dicamba	8.22 ^{+0.01}	7.93 ^{+0.01}	7724	6865	0.111	0.046 ^{CCV}	0.19U	0.077U	4.3 U	Y
Dichlorprop	0.00	8.76	0	7041	0.000	0.169 ^{CCV}	0U	0.28U	3.4 U	Y
Dinoseb	11.68	11.33	1966	14019	0.032	0.103	0.053U	0.17U	2.7 U	Y
MCPA	0.00	0.00	0	0	0.000	0.000 ^{CCV}	0U	0U	320 U	Y
MCPP	8.30 ^{+0.01}	0.00	5705	0	631.544	0.000 ^{CCV}	1100J	0U	460 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

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Data File : J:\gc24\data\112820\11280038.D Vial: 17
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 12:25 am Operator: SM
 Sample : IB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 18:56:33 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	8.008	7.838	7149	47629	0.393	1.126 #
Target Compounds						
1) m Dalapon	3.134	2.841f	38340	21517	1.580	0.445 #
3) m Dicamba	8.221	7.934	7724	6865	0.111	0.046 #
4) m MCPP	8.301	0.000	5705	0	631.544	N.D. d#
5) m MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6) m Dichloroprop	0.000	8.761	0	7041	N.D. d	0.169
7) m 2,4-D	0.000	9.044	0	159517	N.D. d	3.116
8) m 2,4,5-TP ...	10.258	10.101	3694	85009	0.039	0.419 #
9) m 2,4,5-T	10.708	10.528	3773	6174	0.046	0.032 #
10) m 2,4-DB	11.258	0.000	41611	0	4.056	N.D. d#
11) m Dinoseb	11.684	11.331	1966	14019	0.032	0.103 #

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

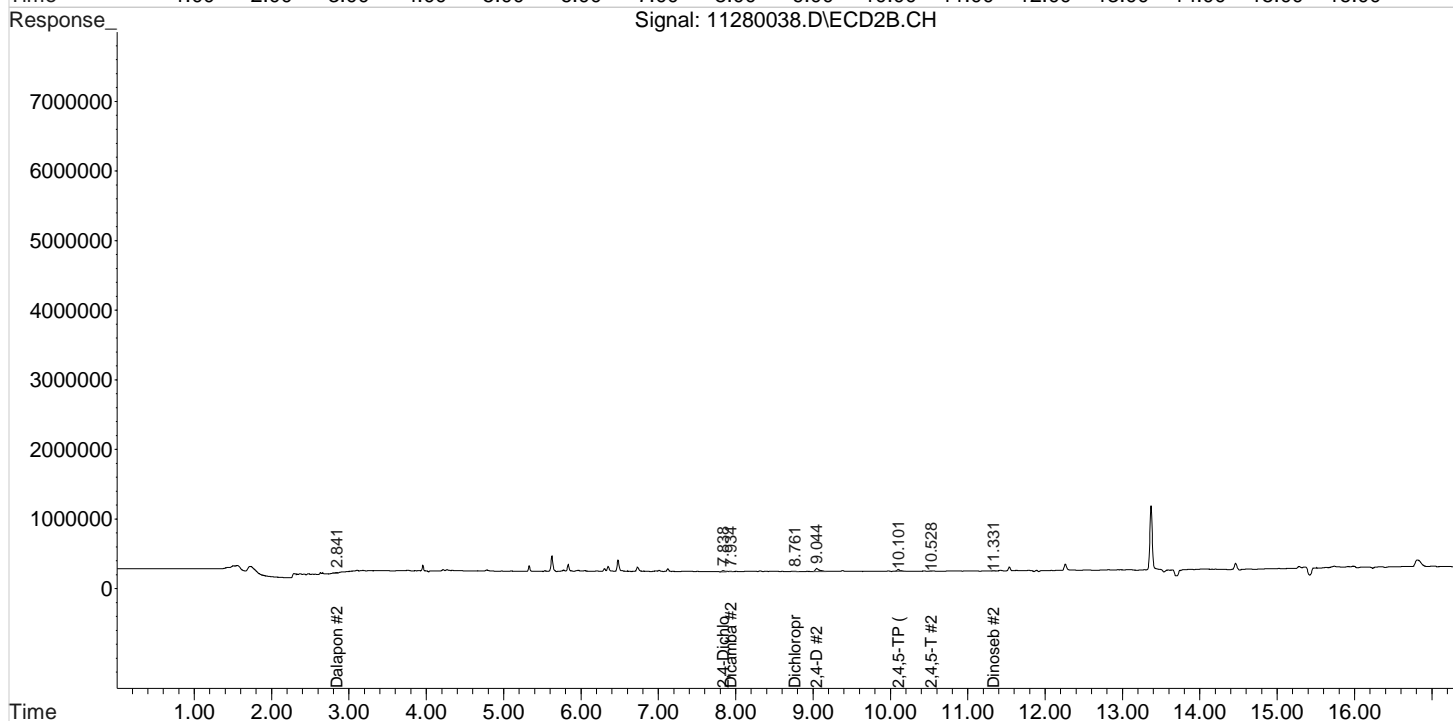
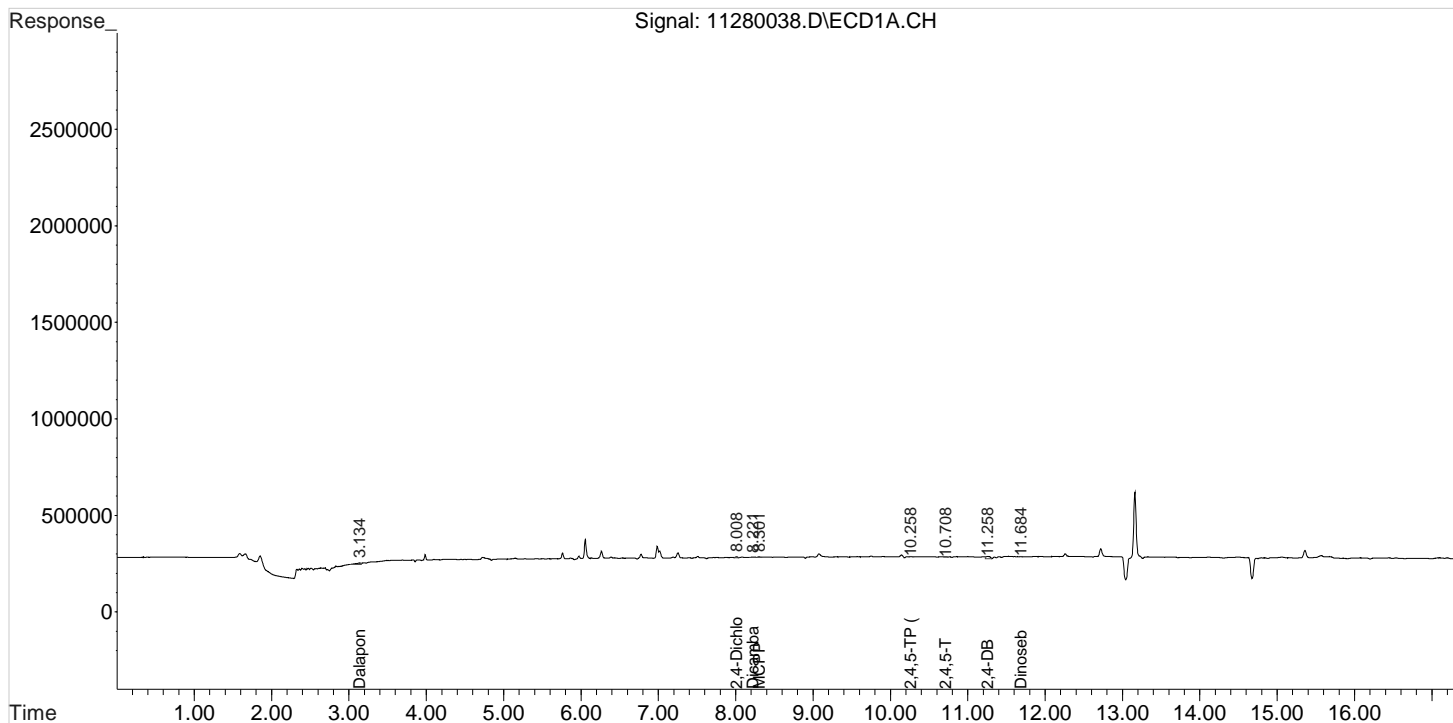
Data File : J:\gc24\data\112820\11280038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 12:25 am
Sample : IB
Misc :

Vial: 17
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 18:56:33 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280050.D\
Lab ID: KQ2018923-10
RunType: CCB
Matrix: Sediment

Date Acquired: 11/29/20 05:00:00
Batch ID: 705101
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Surrogates	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 12/02/20
2nd *AW* 12/02/20

Data File: J:\gc24\data\112820\11280050.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 05:00:00	Vial: 10
Run Type: CCB	Dilution: 1
Lab ID: KQ2018923-10	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.02 ^{+0.03}	7.84 ^{+0.02}	7594	51865	0.417	1.226				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	10.15 ^{+0.02}	0	15993	0.000	0.079	0U	0.13U	2.4 U	Y
2,4-D	0.00	9.05 ^{-0.01}	0	161636	0.000	3.157	0U	5.3U	7.7 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

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Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280050.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 05:00:00	Vial: 10
Run Type: CCB	Dilution: 1
Lab ID: KQ2018923-10	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.02 ^{+0.03}	7.84 ^{+0.02}	7594	51865	0.417	1.226				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	10.71 ^{+0.01}	10.53 ^{-0.01}	5177	10309	0.063 ^{CCV}	0.054	0.11U	0.090U	4.0 U	Y
2,4,5-TP (Silvex)	0.00	10.15 ^{+0.02}	0	15993	0.000	0.079	0U	0.13U	2.4 U	Y
2,4-D	0.00	9.05 ^{-0.01}	0	161636	0.000	3.157	0U	5.3U	7.7 U	Y
2,4-DB	11.27 ^{-0.01}	11.20 ^{+0.03}	38054	5198	3.709 ^{CCV}	0.179	6.2J	0.30U	5.4 U	Y
Dalapon	0.00	2.84 ^{-0.04}	0	48725	0.000	1.009	0U	1.7U	5.5 U	Y
Dicamba	8.23 ^{+0.02}	7.94 ^{+0.02}	4547	6424	0.065	0.043 ^{CCV}	0.11U	0.072U	4.3 U	Y
Dichlorprop	9.00 ^{+0.04}	8.77 ^{+0.01}	45528	6799	2.441	0.163 ^{CCV}	4.1J	0.27U	3.4 U	Y
Dinoseb	0.00	11.34 ^{+0.02}	0	13388	0.000	0.098	0U	0.16U	2.7 U	Y
MCPA	8.51 ^{-0.05}	0.00	2993	0	51.116	0.000 ^{CCV}	85U	0U	320 U	Y
MCPP	8.31 ^{+0.02}	0.00	6045	0	638.860	0.000 ^{CCV}	1100J	0U	460 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

Printed: 11/30/20 7:36

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Data File : J:\gc24\data\112820\11280050.D Vial: 17
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 5:00 am Operator: SM
 Sample : IB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 18:59:20 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	8.016	7.842f	7594	51865	0.417	1.226 #
Target Compounds						
1) m Dalapon	0.000	2.842f	0	48725	N.D. d	1.009
3) m Dicamba	8.226	7.939	4547	6424	0.065	0.043 #
4) m MCPP	8.312	0.000	6045	0	638.860	N.D. d#
5) m MCPA	8.506f	0.000	2993	0	51.116	N.D. d#
6) m Dichloroprop	8.999	8.772	45528	6799	2.441	0.163 #
7) m 2,4-D	0.000	9.052	0	161636	N.D. d	3.157
8) m 2,4,5-TP ...	0.000	10.146	0	15993	N.D. d	0.079
9) m 2,4,5-T	10.712	10.532	5177	10309	0.063	0.054
10) m 2,4-DB	11.269	11.199	38054	5198	3.709	0.179 #
11) m Dinoseb	0.000	11.339	0	13388	N.D. d	0.098

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

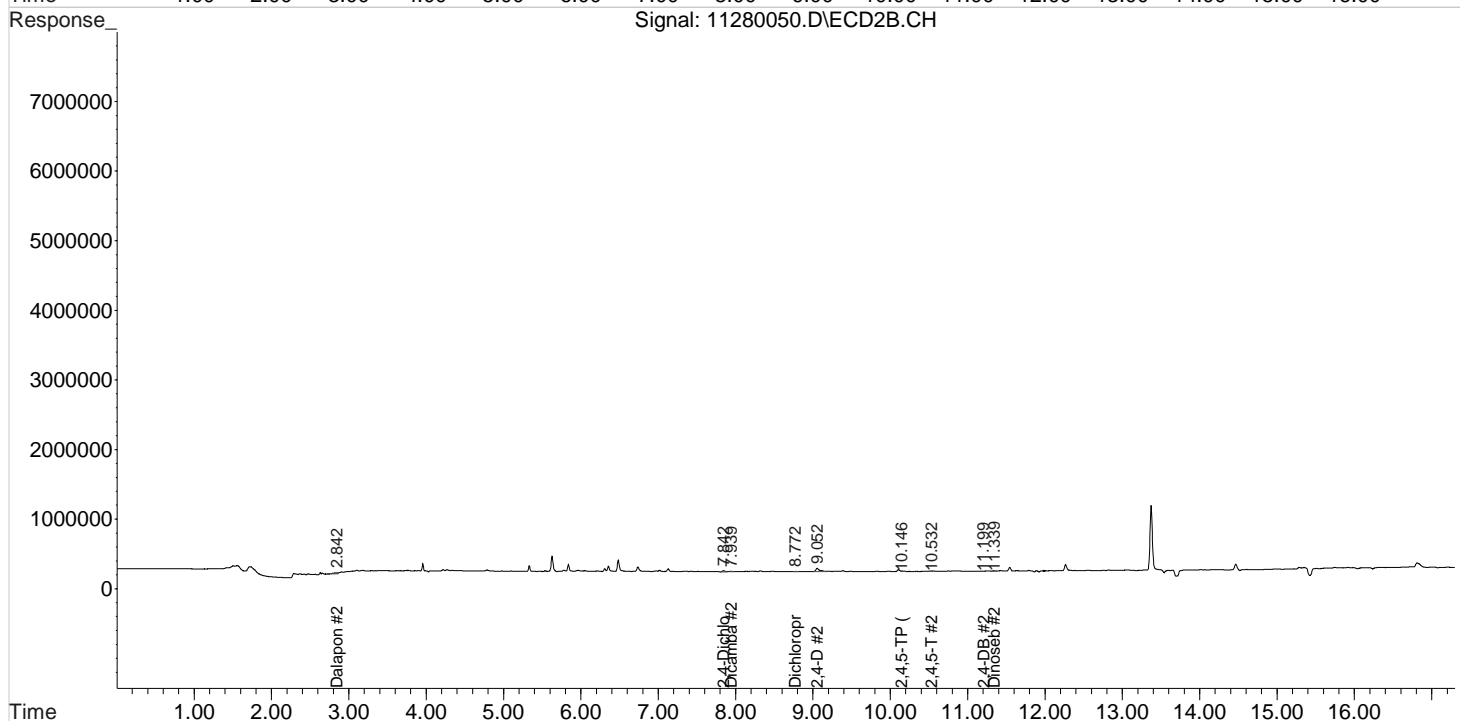
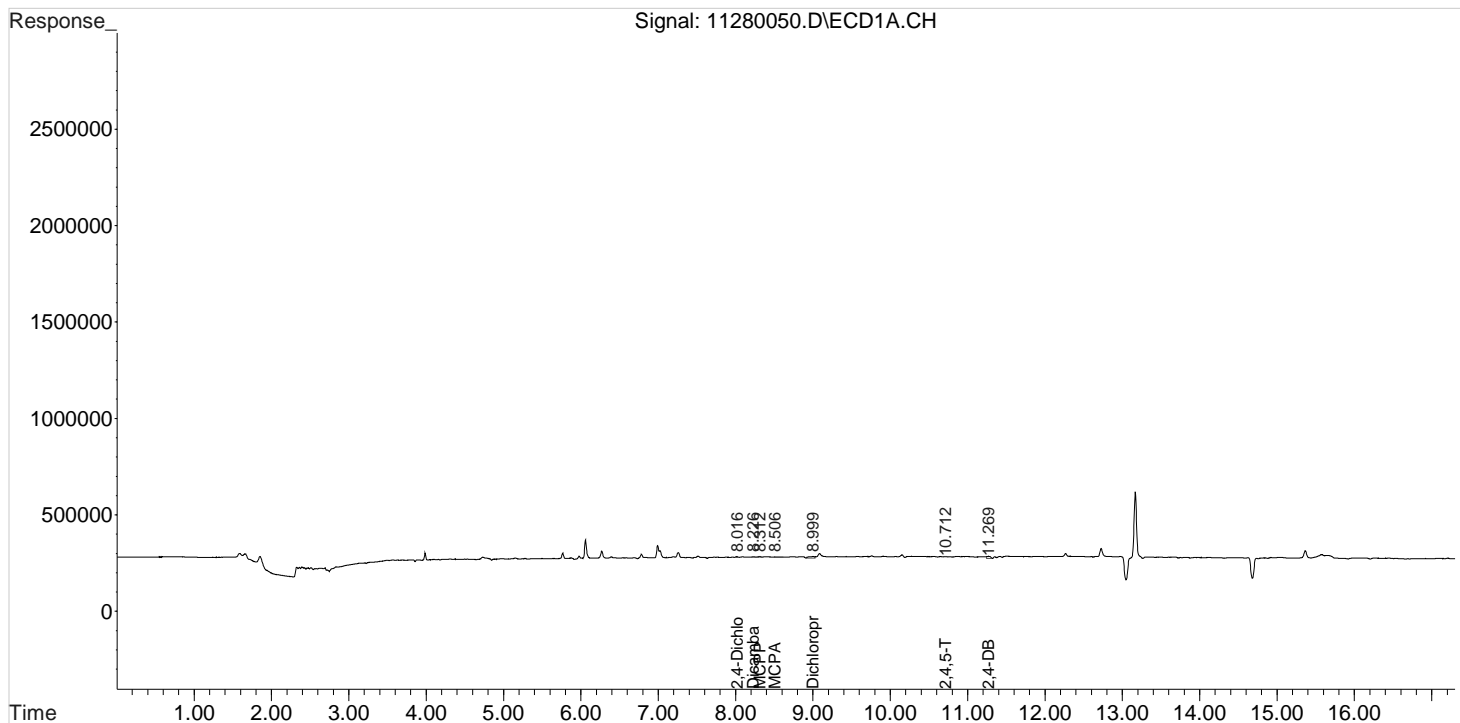
Data File : J:\gc24\data\112820\11280050.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 5:00 am
Sample : IB
Misc :

Vial: 17
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 18:59:20 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2
Signal #1 Info : 0.25 mm
Signal #2 Phase : ZB-XLB-HT
Signal #2 Info : 0.25 mm



Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280062.D\
Lab ID: KQ2018923-12
RunType: CCB
Matrix: Sediment

Date Acquired: 11/29/20 09:34:00
Batch ID: 705101
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	RO Corrective Action
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	25		20	RO

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 12/02/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280062.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 09:34:00	Vial: 8
Run Type: CCB	Dilution: 1
Lab ID: KQ2018923-12	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.01 ^{+0.01}	7.84 ^{+0.01}	7936	48681	0.436	1.151				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	10.27	10.10 ^{-0.04}	3098	87662	0.033	0.432 ^{CCV}	0.055U	0.72U	2.4 U	Y
2,4-D	0.00	9.05 ^{-0.02}	0	161792	0.000	3.160	0U	5.3U	7.7 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

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Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280062.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 09:34:00	Vial: 8
Run Type: CCB	Dilution: 1
Lab ID: KQ2018923-12	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.01 ^{+0.01}	7.84 ^{+0.01}	7936	48681	0.436	1.151				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	10.71	10.53 ^{-0.02}	3924	6200	0.048 ^{CCV}	0.032	0.080U	0.053U	4.0 U	Y
2,4,5-TP (Silvex)	10.27	10.10 ^{-0.04}	3098	87662	0.033	0.432 ^{CCV}	0.055U	0.72U	2.4 U	Y
2,4-D	0.00	9.05 ^{-0.02}	0	161792	0.000	3.160	0U	5.3U	7.7 U	Y
2,4-DB	11.27 ^{-0.02}	0.00	72584	0	7.075 ^{CCV}	0.000	12J	0U	5.4 U	Y
Dalapon	3.13 ^{+0.01}	2.84 ^{-0.04}	61142	10836	2.520	0.224	4.2U	0.37U	5.5 U	Y
Dicamba	8.22	7.93	5592	6527	0.080	0.044 ^{CCV}	0.13U	0.073U	4.3 U	Y
Dichlorprop	0.00	8.77	0	7549	0.000	0.181 ^{CCV}	0U	0.30U	3.4 U	Y
Dinoseb	11.59 ^{-0.10}	11.33	212986	12259	3.443	0.090	5.7J	0.15U	2.7 U	Y
MCPA	8.59 ^{+0.02}	0.00	1156	0	19.743	0.000 ^{CCV}	33U	0U	320 U	Y
MCPP	8.31 ^{+0.01}	0.00	9072	0	703.999	0.000 ^{CCV}	1200J	0U	460 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

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Data File : J:\gc24\data\112820\11280062.D Vial: 17
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 9:34 am Operator: SM
 Sample : IB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 19:02:17 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	8.013	7.840	7936	48681	0.436	1.151 #
Target Compounds						
1) m Dalapon	3.133	2.843f	61142	10836	2.520	0.224 #
3) m Dicamba	8.223	7.933	5592	6527	0.080	0.044 #
4) m MCPP	8.306	0.000	9072	0	703.999	N.D. d#
5) m MCPA	8.590	0.000	1156	0	19.743	N.D. d#
6) m Dichloroprop	0.000	8.766	0	7549	N.D. d	0.181
7) m 2,4-D	0.000	9.050	0	161792	N.D. d	3.160
8) m 2,4,5-TP ...	10.266	10.100	3098	87662	0.033	0.432 #
9) m 2,4,5-T	10.713	10.526	3924	6200	0.048	0.032 #
10) m 2,4-DB	11.270	0.000	72584	0	7.075	N.D. d#
11) m Dinoseb	11.593f	11.330	212986	12259	3.443	0.090 #

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

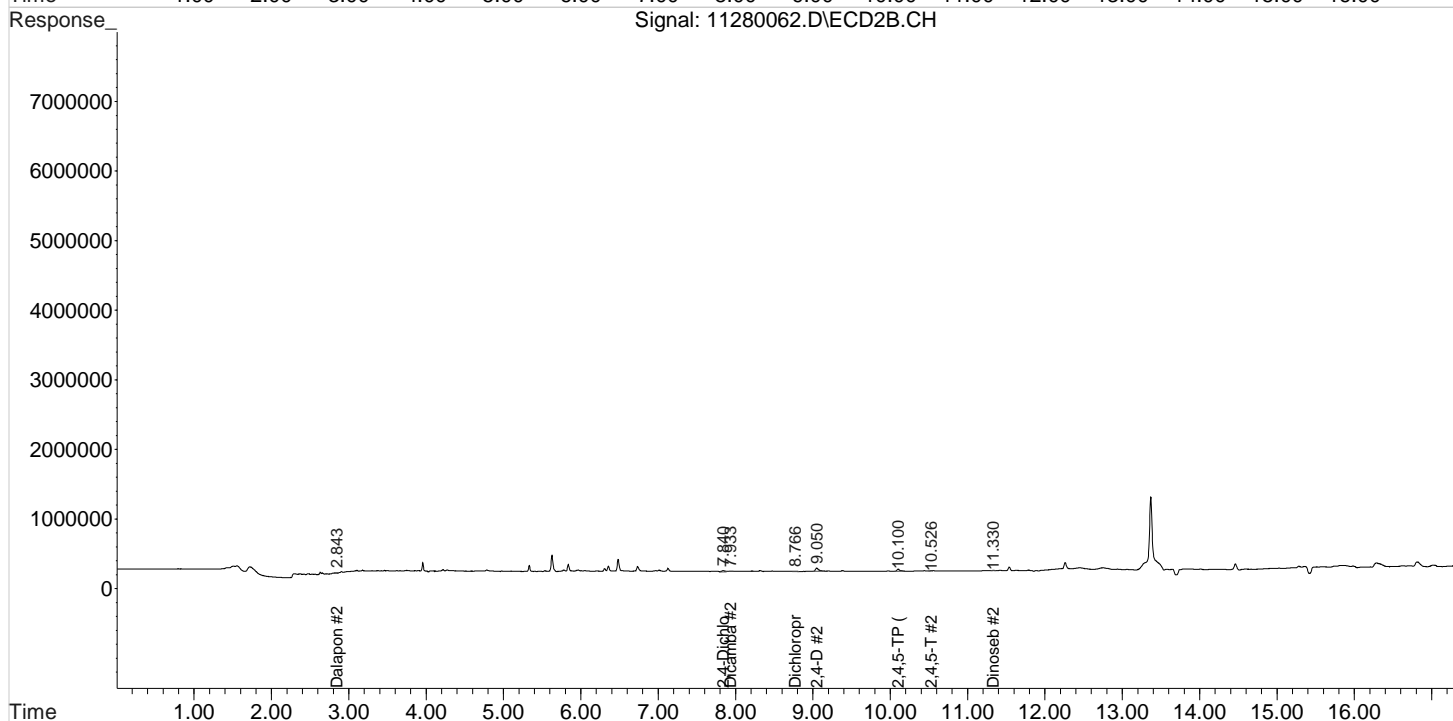
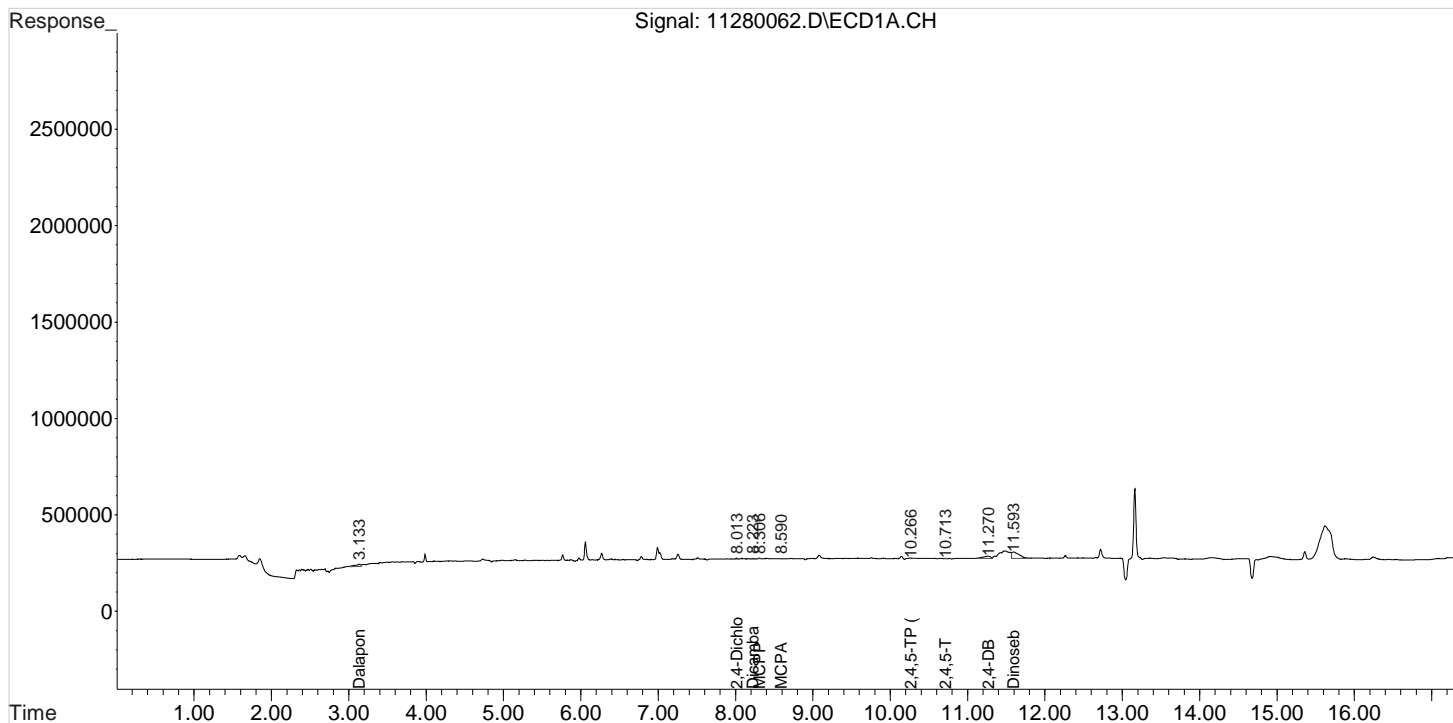
Data File : J:\gc24\data\112820\11280062.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 9:34 am
Sample : IB
Misc :

Vial: 17
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 19:02:17 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280074.D\
Lab ID: KQ2018923-14
RunType: CCB
Matrix: Sediment

Date Acquired: 11/29/20 14:09:00
Batch ID: 705101
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 - ZB-XLB-HT	2,4,5-TP	25		20	CCV+ND

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 12/02/20
2nd *AW* 12/02/20

Data File: J:\gc24\data\112820\11280074.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 14:09:00	Vial: 6
Run Type: CCB	Dilution: 1
Lab ID: KQ2018923-14	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.02 ^{+0.02}	7.84 ^{+0.01}	8247	53186	0.453	1.257				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	10.27 ^{+0.01}	10.14	12871	30409	0.137	0.150 ^{CCV}	0.23U	0.25U	2.4 U	Y
2,4-D	0.00	9.05 ^{-0.02}	0	189327	0.000	3.698	0U	6.2U	7.7 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

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Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280074.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 14:09:00	Vial: 6
Run Type: CCB	Dilution: 1
Lab ID: KQ2018923-14	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.02 ^{+0.02}	7.84 ^{+0.01}	8247	53186	0.453	1.257				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	10.72 ^{+0.01}	10.56 ^{+0.01}	5341	29124	0.065	0.152	0.11U	0.25U	4.0 U	Y
2,4,5-TP (Silvex)	10.27 ^{+0.01}	10.14	12871	30409	0.137	0.150 ^{CCV}	0.23U	0.25U	2.4 U	Y
2,4-D	0.00	9.05 ^{-0.02}	0	189327	0.000	3.698	0U	6.2U	7.7 U	Y
2,4-DB	11.26 ^{-0.03}	0.00	46243	0	4.507 ^{CCV}	0.000	7.5J	0U	5.4 U	Y
Dalapon	3.14 ^{+0.02}	0.00	162577	0	6.702	0.000 ^{CCV}	11J	0U	5.5 U	Y
Dicamba	8.23 ^{+0.01}	7.94 ^{+0.01}	8972	17944	0.129	0.121 ^{CCV}	0.22U	0.20U	4.3 U	Y
Dichlorprop	0.00	8.77 ^{+0.01}	0	9593	0.000	0.230 ^{CCV}	0U	0.38U	3.4 U	Y
Dinoseb	11.69	11.34 ^{+0.01}	13857	28383	0.224	0.208	0.37U	0.35U	2.7 U	Y
MCPA	0.00	0.00	0	0	0.000	0.000 ^{CCV}	0U	0U	320 U	Y
MCPP	8.31 ^{+0.01}	0.00	7860	0	677.917	0.000 ^{CCV}	1100J	0U	460 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

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Data File : J:\gc24\data\112820\11280074.D Vial: 17
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 2:09 pm Operator: SM
 Sample : IB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 19:30:32 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	8.016	7.842f	8247	53186	0.453	1.257 #
Target Compounds						
1) m Dalapon	3.136	0.000	162577	0	6.702	N.D. d#
3) m Dicamba	8.226	7.936	8972	17944	0.129	0.121
4) m MCPP	8.309	0.000	7860	0	677.917	N.D. d#
5) m MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6) m Dichloroprop	0.000	8.772	0	9593	N.D. d	0.230
7) m 2,4-D	0.000	9.052	0	189327	N.D. d	3.698
8) m 2,4,5-TP ...	10.272	10.142	12871	30409	0.137	0.150
9) m 2,4,5-T	10.719	10.556	5341	29124	0.065	0.152 #
10) m 2,4-DB	11.262	0.000	46243	0	4.507	N.D. d#
11) m Dinoseb	11.686	11.336	13857	28383	0.224	0.208

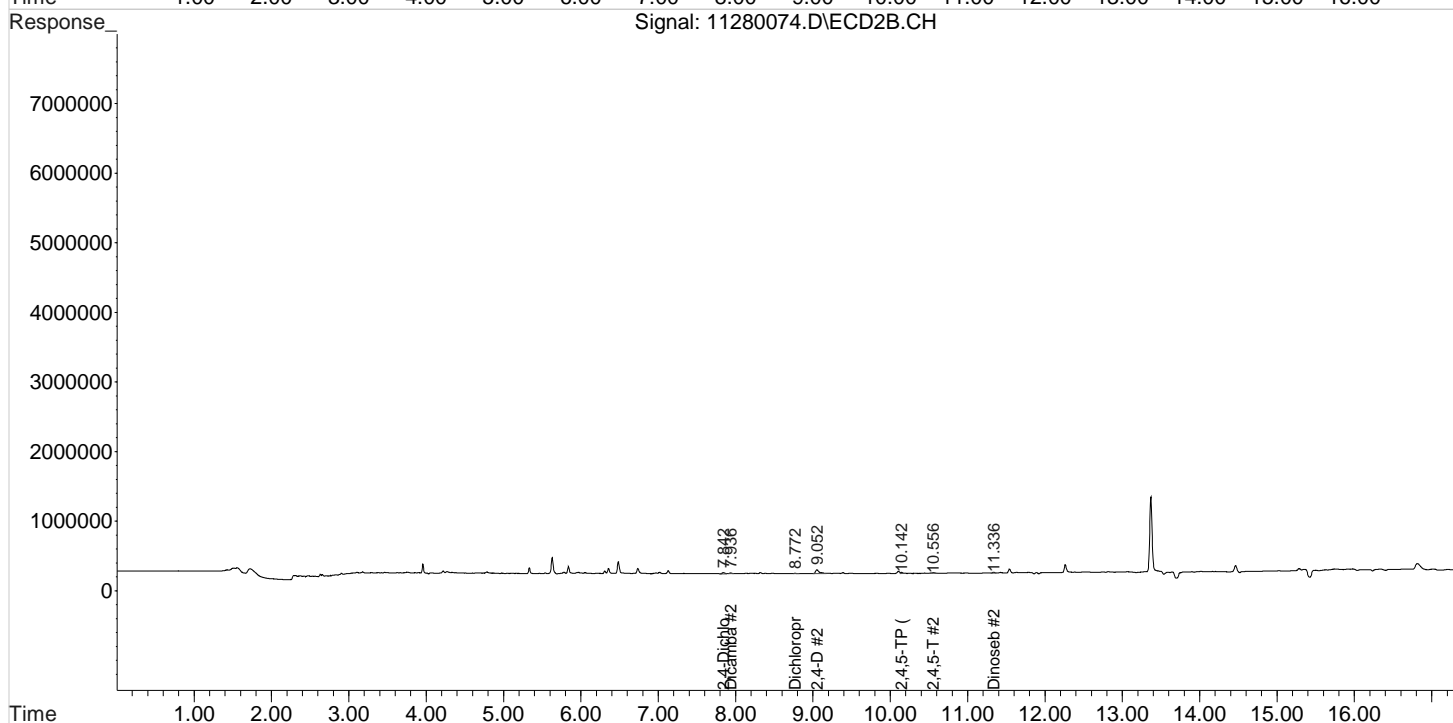
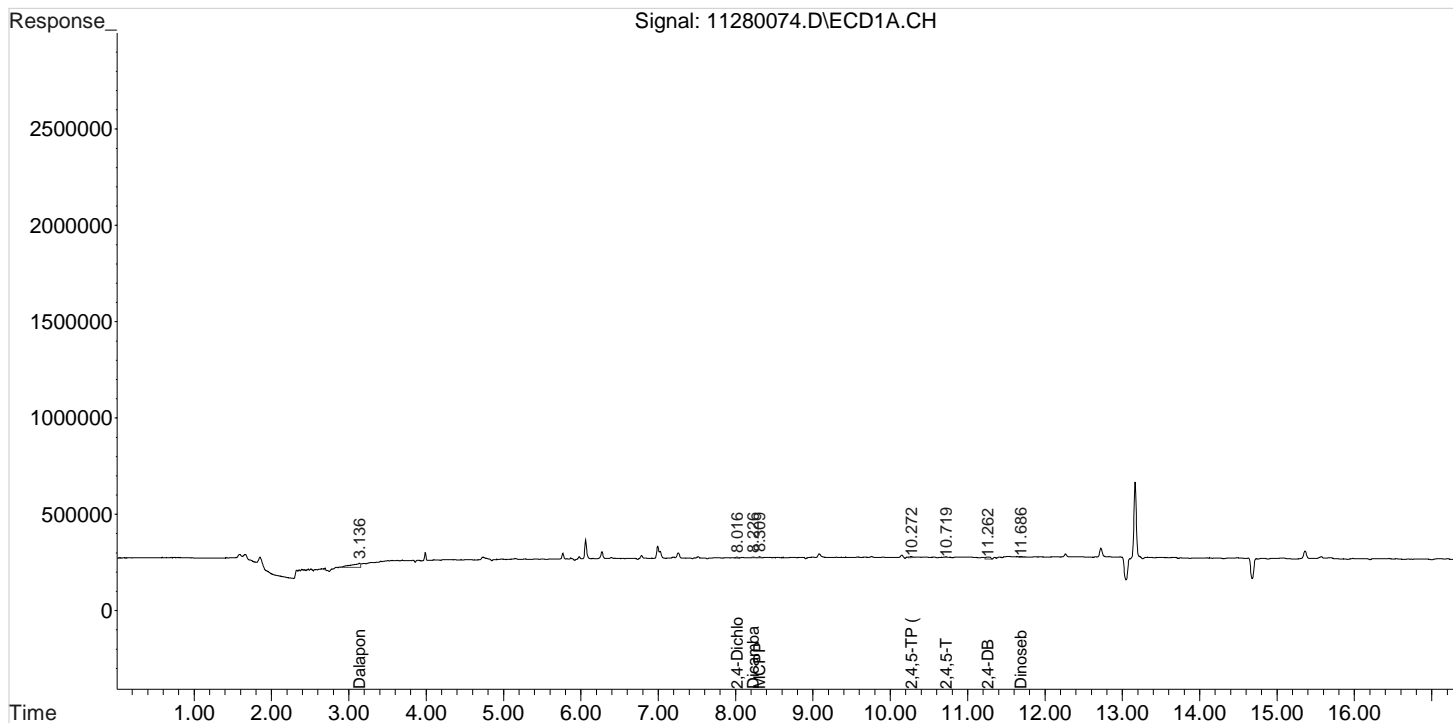
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\gc24\data\112820\11280074.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 2:09 pm
Sample : IB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 19:30:32 2020
Quant Results File: 102120_8151.RES

Vial: 17
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280086.D\
Lab ID: KQ2018923-16
RunType: CCB
Matrix: Sediment

Date Acquired: 11/29/20 18:44:00
Batch ID: 705101
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Surrogates	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 12/02/20
2nd *AW* 12/02/20

Data File: J:\gc24\data\112820\11280086.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 18:44:00	Vial: 4
Run Type: CCB	Dilution: 1
Lab ID: KQ2018923-16	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.01 ^{+0.01}	7.83	7516	54239	0.413	1.282				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	10.26	10.13 ^{-0.01}	8562	31506	0.091	0.155	0.15U	0.26U	2.4 U	Y
2,4-D	0.00	9.04 ^{-0.03}	0	194154	0.000	3.792	0U	6.3U	7.7 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

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Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280086.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 18:44:00	Vial: 4
Run Type: CCB	Dilution: 1
Lab ID: KQ2018923-16	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.01 ^{+0.01}	7.83	7516	54239	0.413	1.282				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	10.71	10.55	6589	26153	0.080	0.137	0.13U	0.23U	4.0 U	Y
2,4,5-TP (Silvex)	10.26	10.13 ^{-0.01}	8562	31506	0.091	0.155	0.15U	0.26U	2.4 U	Y
2,4-D	0.00	9.04 ^{-0.03}	0	194154	0.000	3.792	0U	6.3U	7.7 U	Y
2,4-DB	11.26 ^{-0.03}	0.00	52865	0	5.153 ^{CCV}	0.000	8.6J	0U	5.4 U	Y
Dalapon	0.00	2.88	0	12851	0.000	0.266 ^{CCV}	0U	0.44U	5.5 U	Y
Dicamba	8.21 ^{-0.01}	7.93	8914	16493	0.128	0.111 ^{CCV}	0.21U	0.19U	4.3 U	Y
Dichlorprop	8.99 ^{+0.02}	8.76 ^{-0.01}	5745	10833	0.308	0.260 ^{CCV}	0.51U	0.43U	3.4 U	Y
Dinoseb	11.68 ^{-0.01}	11.32 ^{-0.01}	14409	24167	0.233	0.177	0.39U	0.30U	2.7 U	Y
MCPA	8.51 ^{-0.06}	0.00	1726	0	29.478	0.000 ^{CCV}	49U	0U	320 U	Y
MCPP	8.30	0.00	8882	0	699.910	0.000 ^{CCV}	1200J	0U	460 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

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Data File : J:\gc24\data\112820\11280086.D Vial: 17
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 6:44 pm Operator: SM
 Sample : IB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 19:33:15 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	8.007	7.834	7516	54239	0.413	1.282 #
Target Compounds						
1) m Dalapon	0.000	2.884	0	12851	N.D. d	0.266
3) m Dicamba	8.214	7.927	8914	16493	0.128	0.111
4) m MCPP	8.297	0.000	8882	0	699.910	N.D. d#
5) m MCPA	8.507f	0.000	1726	0	29.478	N.D. d#
6) m Dichloroprop	8.990	8.764	5745	10833	0.308	0.260
7) m 2,4-D	0.000	9.040	0	194154	N.D. d	3.792
8) m 2,4,5-TP ...	10.260	10.134	8562	31506	0.091	0.155 #
9) m 2,4,5-T	10.710	10.551	6589	26153	0.080	0.137 #
10) m 2,4-DB	11.260	0.000	52865	0	5.153	N.D. d#
11) m Dinoseb	11.677	11.324	14409	24167	0.233	0.177

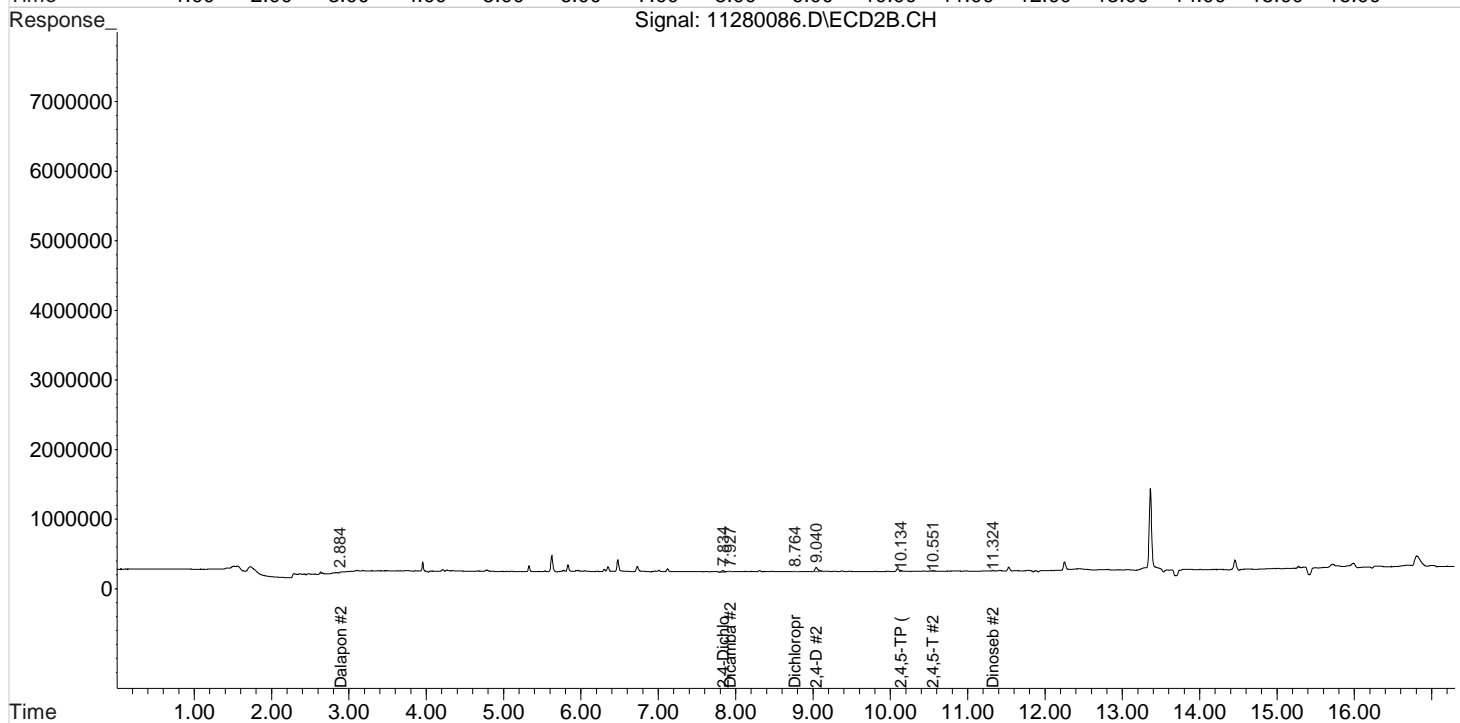
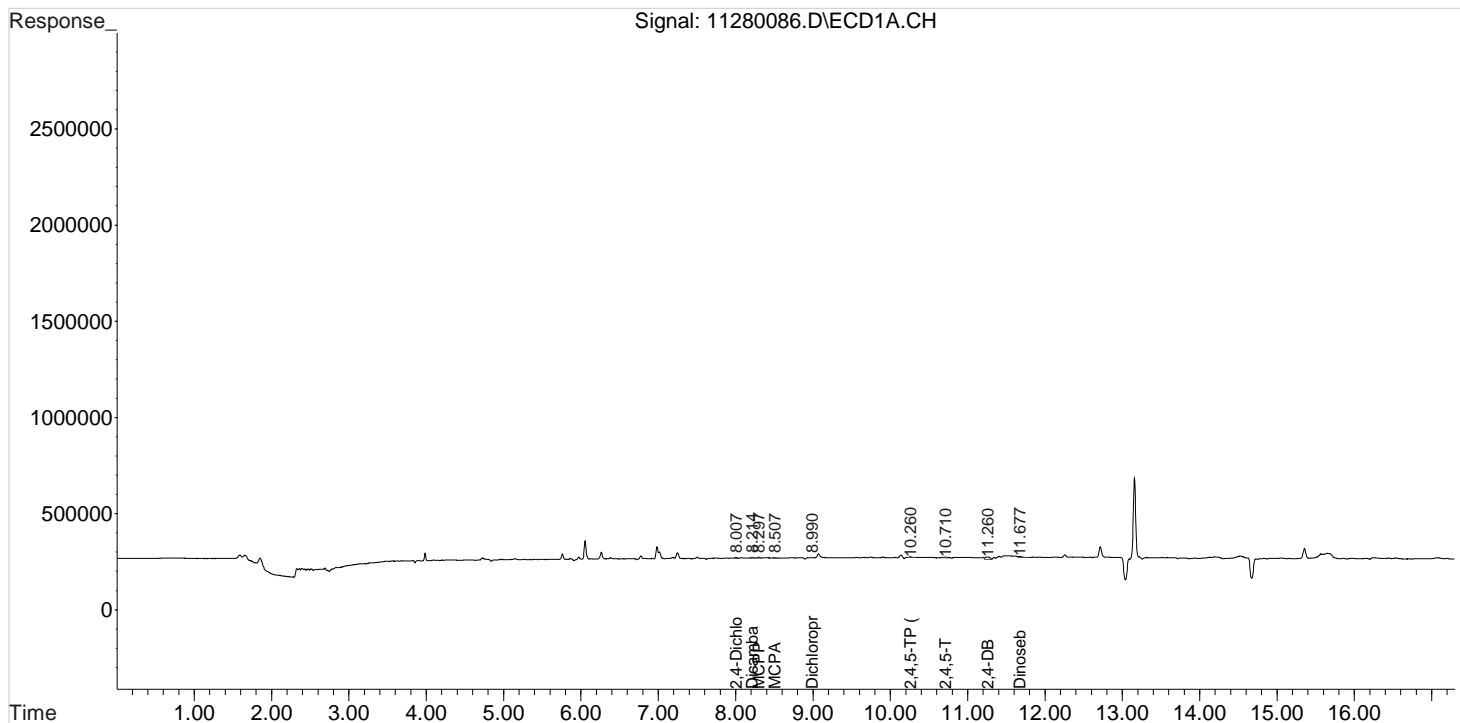
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\gc24\data\112820\11280086.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 6:44 pm
Sample : IB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 19:33:15 2020
Quant Results File: 102120_8151.RES

Vial: 17
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *SM* 11/30/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280097.D\
Lab ID: KQ2018923-18
RunType: CCB
Matrix: Sediment

Date Acquired: 11/29/20 22:56:00
Batch ID: 705101
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Surrogates	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 12/02/20
2nd *AW* 12/02/20

Data File: J:\gc24\data\112820\11280097.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 22:56:00	Vial: 2
Run Type: CCB	Dilution: 1
Lab ID: KQ2018923-18	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.01 ^{+0.01}	7.84 ^{+0.01}	8340	65848	0.458	1.557				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	10.27 ^{+0.01}	10.14 ^{-0.01}	8738	34003	0.093	0.168	0.16U	0.28U	2.4 U	Y
2,4-D	0.00	9.05 ^{-0.02}	0	215787	0.000	4.215	0U	7.0U	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

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Quantitation Report

1st *SM* 11/30/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280097.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 22:56:00	Vial: 2
Run Type: CCB	Dilution: 1
Lab ID: KQ2018923-18	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.01 ^{+0.01}	7.84 ^{+0.01}	8340	65848	0.458	1.557				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	10.72 ^{+0.01}	10.56 ^{+0.01}	6486	29267	0.079	0.153	0.13U	0.26U	4.0 U	Y
2,4,5-TP (Silvex)	10.27 ^{+0.01}	10.14 ^{-0.01}	8738	34003	0.093	0.168	0.16U	0.28U	2.4 U	Y
2,4-D	0.00	9.05 ^{-0.02}	0	215787	0.000	4.215	0U	7.0U	7.7 U	Y
2,4-DB	11.27 ^{-0.02}	0.00	52263	0	5.094 ^{CCV}	0.000	8.5J	0U	5.4 U	Y
Dalapon	0.00	2.84 ^{-0.04}	0	18458	0.000	0.382	0U	0.64U	5.5 U	Y
Dicamba	8.22	7.93	6816	18274	0.098	0.123 ^{CCV}	0.16U	0.21U	4.3 U	Y
Dichlorprop	9.00 ^{+0.03}	8.77	49232	11904	2.640	0.285 ^{CCV}	4.4J	0.48U	3.4 U	Y
Dinoseb	11.69 ^{+0.01}	11.33	11032	27758	0.178	0.203	0.30U	0.34U	2.7 U	Y
MCPA	0.00	0.00	0	0	0.000	0.000 ^{CCV}	0U	0U	320 U	Y
MCPP	8.31 ^{+0.01}	0.00	7239	0	664.554	0.000 ^{CCV}	1100J	0U	460 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

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Data File : J:\gc24\data\112820\11280097.D Vial: 17
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 10:56 pm Operator: SM
 Sample : IB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 30 07:19:15 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	8.013	7.840	8340	65848	0.458	1.557 #
Target Compounds						
1) m Dalapon	0.000	2.843f	0	18458	N.D. d	0.382
3) m Dicamba	8.223	7.933	6816	18274	0.098	0.123 #
4) m MCPP	8.306	0.000	7239	0	664.554	N.D. d#
5) m MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6) m Dichloroprop	9.000	8.767	49232	11904	2.640	0.285 #
7) m 2,4-D	0.000	9.050	0	215787	N.D. d	4.215
8) m 2,4,5-TP ...	10.273	10.140	8738	34003	0.093	0.168 #
9) m 2,4,5-T	10.720	10.557	6486	29267	0.079	0.153 #
10) m 2,4-DB	11.270	0.000	52263	0	5.094	N.D. d#
11) m Dinoseb	11.686	11.333	11032	27758	0.178	0.203

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

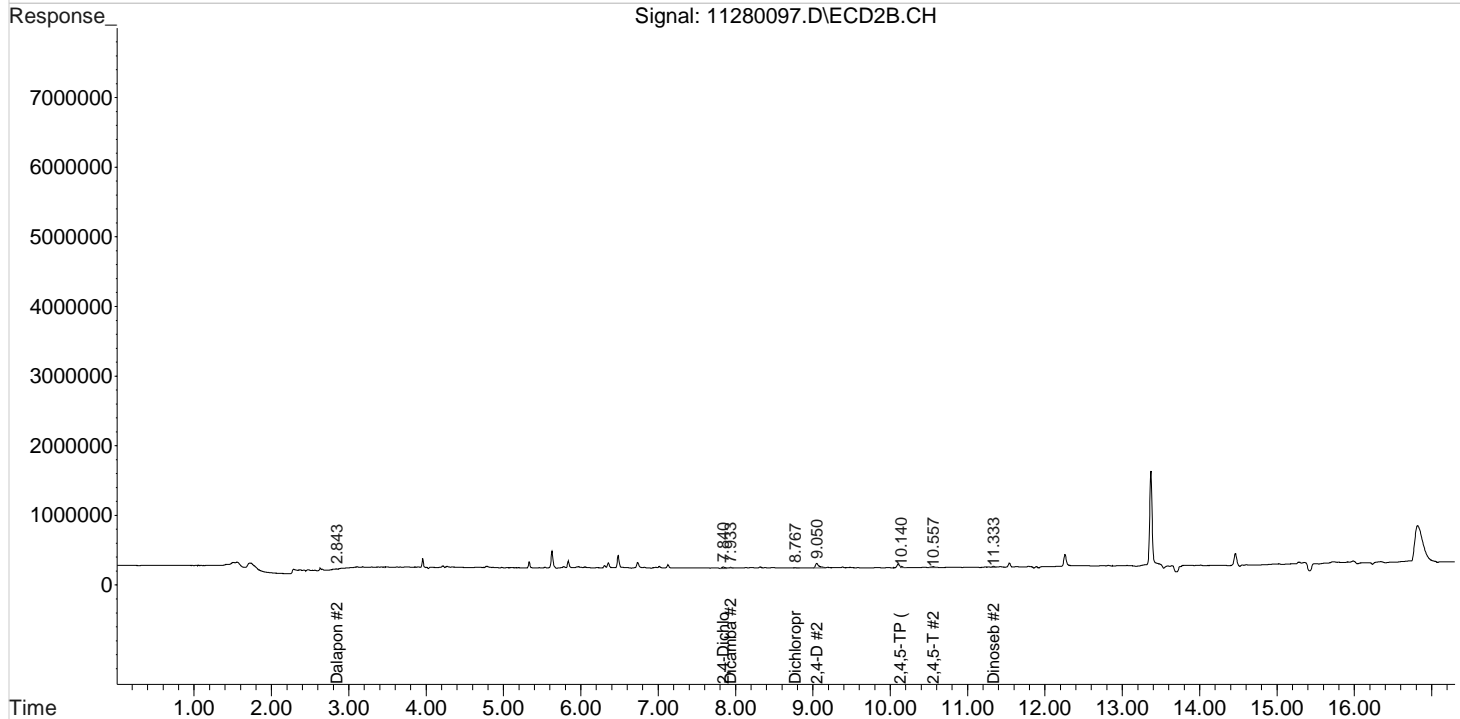
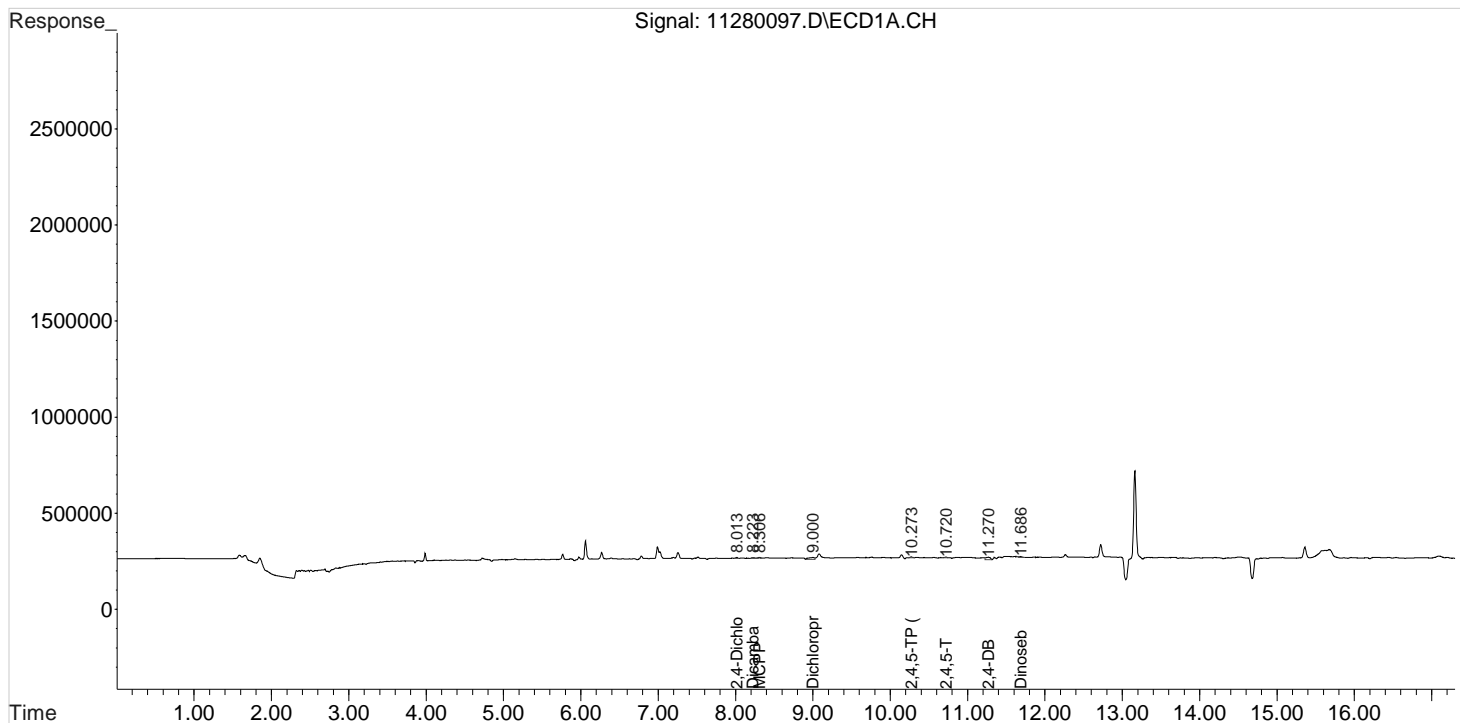
Data File : J:\gc24\data\112820\11280097.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 10:56 pm
Sample : IB
Misc :

Vial: 17
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 07:19:15 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280026.D\
Lab ID: KQ2018923-05
RunType: CCV
Matrix: Sediment

Date Acquired: 11/28/20 19:51:00
Batch ID: 705101
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 *UA* 12/02/20
2nd *SW* 12/02/20

Data File: J:\gc24\data\112820\11280026.D\	Instrument: K-GC-24
Acqu Date: 11/28/20 19:51:00	Vial: 15
Run Type: CCV	Dilution: 1
Lab ID: KQ2018923-05	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	7.99	7.82	1752672	4530905	96.319	107.119			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	10.26	10.13	8713350	22422417	93.011	110.456	93.0	110	Y
2,4-D	9.32	9.07	1867489	5146535	87.923	100.521	87.9	101	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

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Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280026.D\	Instrument: K-GC-24
Acqu Date: 11/28/20 19:51:00	Vial: 15
Run Type: CCV	Dilution: 1
Lab ID: KQ2018923-05	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		% Rec		Rpt?
					Conc 1	Conc 2	1	2	
2,4-Dichlorophenylacetic Acid	7.99	7.82	1752672	4530905	96.319	107.119			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		Final		Rpt?
					Conc 1	Conc 2	Conc 1	Conc 2	
2,4,5-T	10.70	10.54	6522626	16997645	79.053	88.822	79.1	88.8	Y
2,4,5-TP (Silvex)	10.26	10.13	8713350	22422417	93.011	110.456	93.0	110	Y
2,4-D	9.32	9.07	1867489	5146535	87.923	100.521	87.9	101	Y
2,4-DB	11.28	11.17	779804	2389537	76.009	82.353	76.0	82.4	Y
Dalapon	3.12	2.88	2557466	5198086	105.426	107.593	105	108	Y
Dicamba	8.21	7.92	6884363	16693783	98.630	112.634	98.6	113	Y
Dichlorprop	8.96	8.76	1766645	4684145	94.738	112.289	94.7	112	Y
Dinoseb	11.68	11.32	5336975	13789711	86.266	100.834	86.3	101	Y
MCPA	8.56	8.36	583806	2732266	9970.637	12561.899	9970	12600	Y
MCPP	8.29	8.11	440685	2071611	9991.954	12898.945	9990	12900	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: 11/30/20 7:36

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Data File : J:\gc24\data\112820\11280026.D Vial: 16
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 28 Nov 2020 7:51 pm Operator: SM
 Sample : PENTA-2 41C 100C Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 11:22:50 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.990	7.820	1752672	4530905	96.319	107.119
Target Compounds						
1) m Dalapon	3.123	2.876	2557466	5198086	105.426	107.593
3) m Dicamba	8.210	7.923	6884363	16693783	98.630	112.634
4) m MCPP	8.293	8.110	440685	2071611	9991.954	12898.945 #
5) m MCPA	8.560	8.356	583806	2732266	9970.637	12561.899 #
6) m Dichloroprop	8.960	8.756	1766645	4684145	94.738	112.289
7) m 2,4-D	9.316	9.066	1867489	5146535	87.923	100.521
8) m 2,4,5-TP ...	10.256	10.133	8713350	22422417	93.011	110.456
9) m 2,4,5-T	10.700	10.540	6522626	16997645	79.053	88.822
10) m 2,4-DB	11.280	11.173	779804	2389537	76.009	82.353
11) m Dinoseb	11.676	11.323	5336975	13789711	86.266	100.834

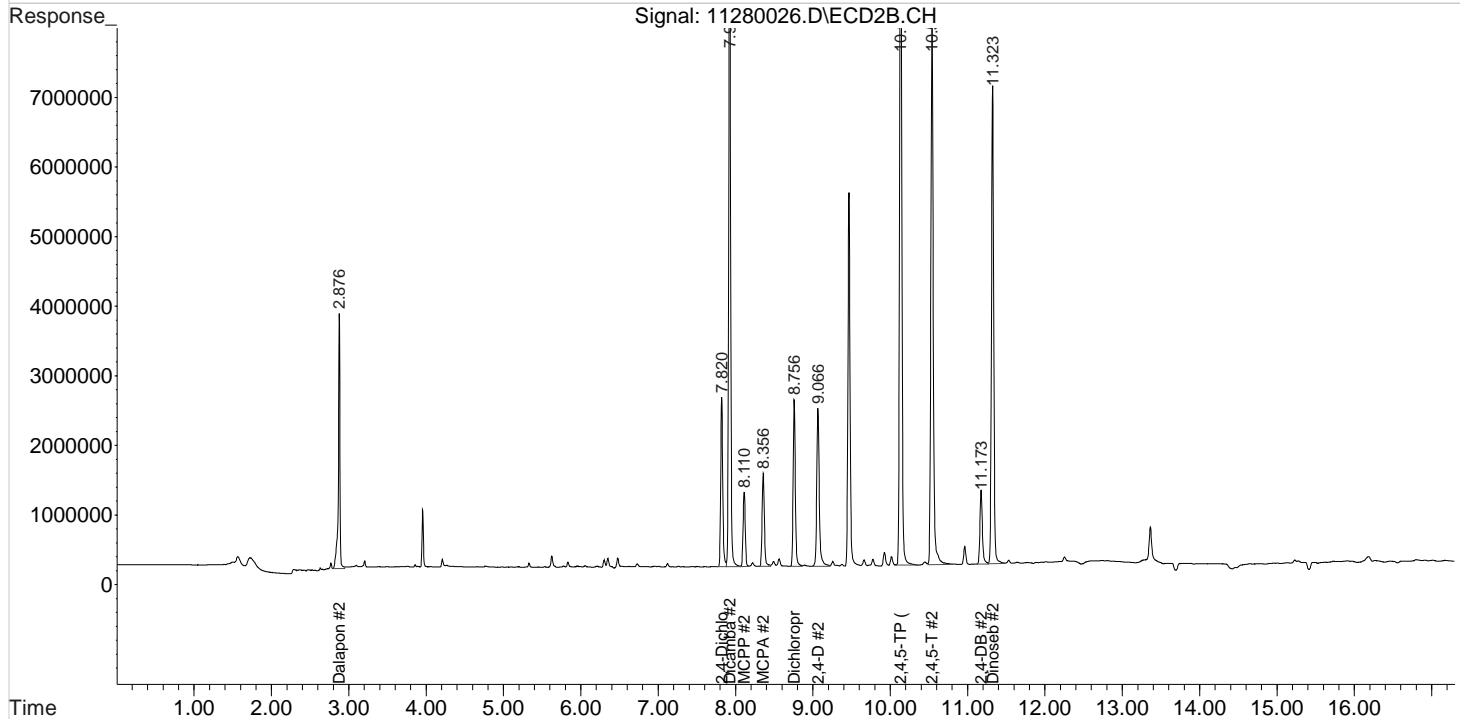
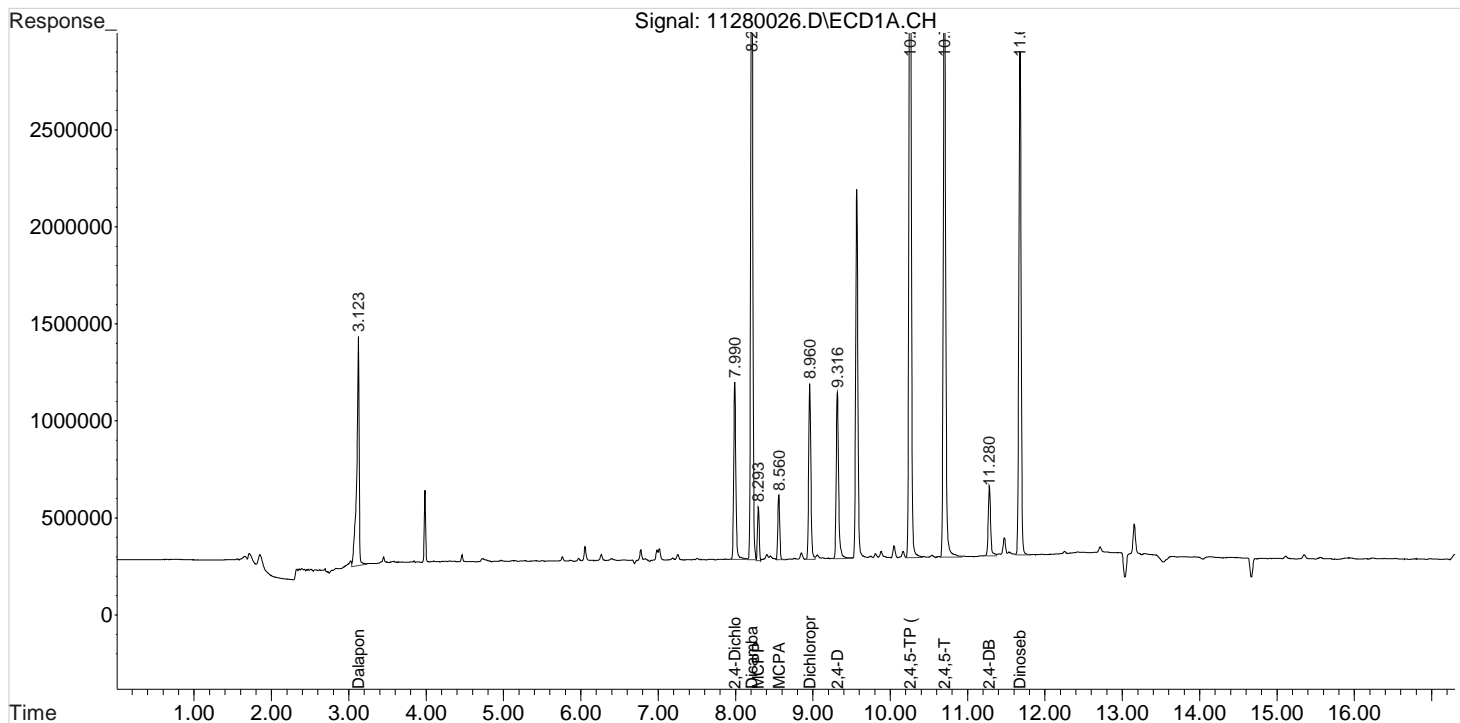
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\gc24\data\112820\11280026.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Nov 2020 7:51 pm
Sample : PENTA-2 41C 100C
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 11:22:50 2020
Quant Results File: 102120_8151.RES

Vial: 16
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280037.D\
Lab ID: KQ2018923-07
RunType: CCV
Matrix: Sediment

Date Acquired: 11/29/20 00:02:00
Batch ID: 705101
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 *UA* 12/02/20
2nd *AW* 12/02/20

Data File: J:\gc24\data\112820\11280037.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 00:02:00	Vial: 13
Run Type: CCV	Dilution: 1
Lab ID: KQ2018923-07	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	7.99	7.82	1742799	4711186	95.776	111.381			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	10.26	10.14	8702999	23129557	92.900	113.940	92.9	114	Y
2,4-D	9.32	9.07	1843207	5302330	86.779	103.564	86.8	104	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

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Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280037.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 00:02:00	Vial: 13
Run Type: CCV	Dilution: 1
Lab ID: KQ2018923-07	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		% Rec		Rpt?
					Conc 1	Conc 2	1	2	
2,4-Dichlorophenylacetic Acid	7.99	7.82	1742799	4711186	95.776	111.381			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		Final		Rpt?
					Conc 1	Conc 2	Conc 1	Conc 2	
2,4,5-T	10.70	10.54	6551341	17240666	79.401	90.092	79.4	90.1	Y
2,4,5-TP (Silvex)	10.26	10.14	8702999	23129557	92.900	113.940	92.9	114	Y
2,4-D	9.32	9.07	1843207	5302330	86.779	103.564	86.8	104	Y
2,4-DB	11.28	11.18	777464	2444815	75.781	84.258	75.8	84.3	Y
Dalapon	3.12	2.88	2594237	5205121	106.942	107.738	107	108	Y
Dicamba	8.21	7.92	6870285	17401646	98.428	117.410	98.4	117	Y
Dichlorprop	8.96	8.76	1762693	4862265	94.526	116.559	94.5	117	Y
Dinoseb	11.68	11.33	5411647	14243065	87.473	104.149	87.5	104	Y
MCPA	8.56	8.36	579688	2825903	9900.307	13056.796	9900	13100	Y
MCPP	8.29	8.11	435869	2142858	9888.317	13391.360	9890	13400	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

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Data File : J:\gc24\data\112820\11280037.D Vial: 16
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 12:02 am Operator: SM
 Sample : PENTA-2 41C 100C Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 11:23:23 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.988	7.821	1742799	4711186	95.776	111.381
Target Compounds						
1) m Dalapon	3.125	2.878	2594237	5205121	106.942	107.738
3) m Dicamba	8.211	7.925	6870285	17401646	98.428	117.410
4) m MCPP	8.295	8.111	435869	2142858	9888.317	13391.360 #
5) m MCPA	8.561	8.358	579688	2825903	9900.307	13056.796 #
6) m Dichloroprop	8.961	8.758	1762693	4862265	94.526	116.559
7) m 2,4-D	9.318	9.068	1843207	5302330	86.779	103.564
8) m 2,4,5-TP ...	10.258	10.138	8702999	23129557	92.900	113.940
9) m 2,4,5-T	10.705	10.545	6551341	17240666	79.401	90.092
10) m 2,4-DB	11.285	11.178	777464	2444815	75.781	84.258
11) m Dinoseb	11.685	11.328	5411647	14243065	87.473	104.149

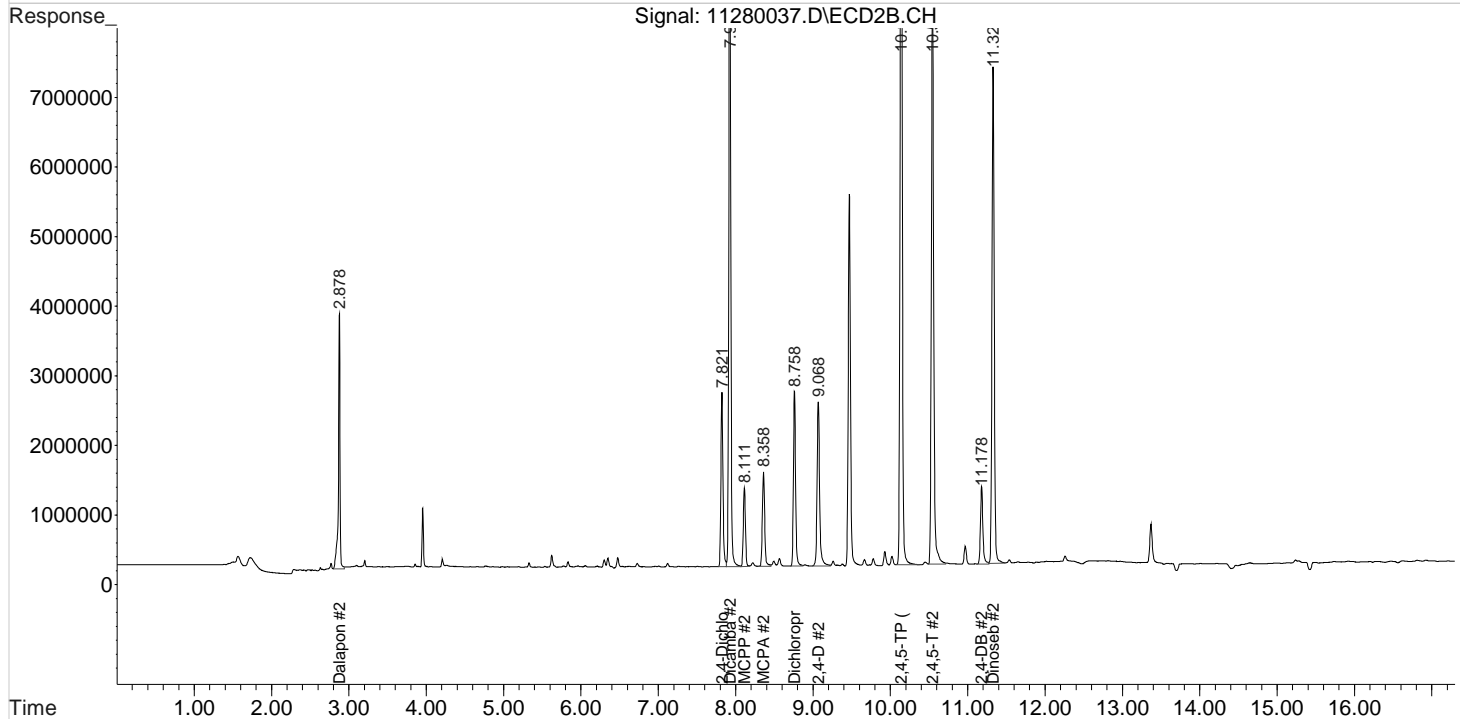
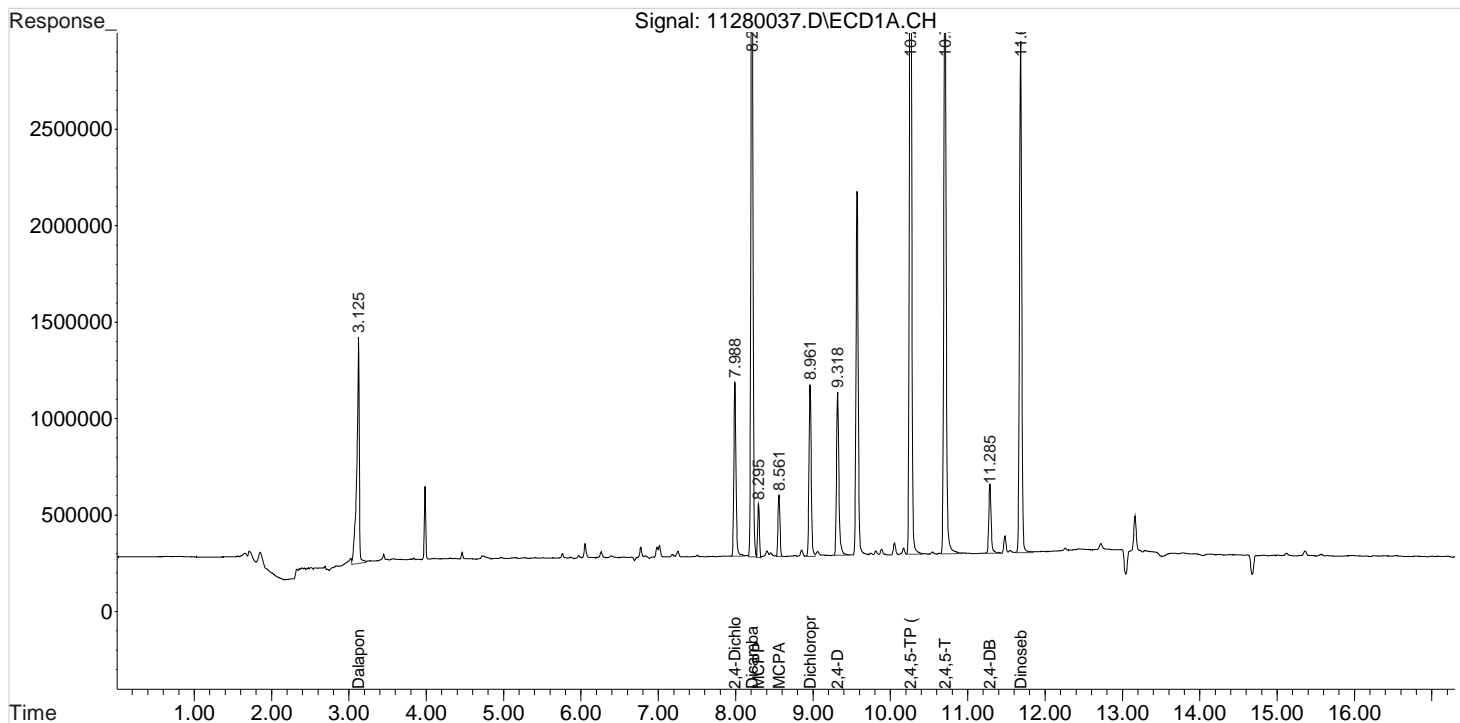
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\gc24\data\112820\11280037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 12:02 am
Sample : PENTA-2 41C 100C
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 11:23:23 2020
Quant Results File: 102120_8151.RES

Vial: 16
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280049.D\
Lab ID: KQ2018923-09
RunType: CCV
Matrix: Sediment

Date Acquired: 11/29/20 04:37:00
Batch ID: 705101
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 *UA* 12/02/20
2nd *SW* 12/02/20

Data File: J:\gc24\data\112820\11280049.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 04:37:00	Vial: 11
Run Type: CCV	Dilution: 1
Lab ID: KQ2018923-09	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	7.99	7.82	1762395	4633615	96.853	109.547			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	10.25	10.13	8727419	22805372	93.161	112.343	93.2	112	Y
2,4-D	9.32	9.06	1854735	5203678	87.322	101.637	87.3	102	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

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Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280049.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 04:37:00	Vial: 11
Run Type: CCV	Dilution: 1
Lab ID: KQ2018923-09	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		% Rec		Rpt?
					Conc 1	Conc 2	1	2	
2,4-Dichlorophenylacetic Acid	7.99	7.82	1762395	4633615	96.853	109.547			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		Final		Rpt?
					Conc 1	Conc 2	Conc 1	Conc 2	
2,4,5-T	10.70	10.54	6475013	16958026	78.476	88.615	78.5	88.6	Y
2,4,5-TP (Silvex)	10.25	10.13	8727419	22805372	93.161	112.343	93.2	112	Y
2,4-D	9.32	9.06	1854735	5203678	87.322	101.637	87.3	102	Y
2,4-DB	11.28	11.17	769669	2393276	75.021	82.482	75.0	82.5	Y
Dalapon	3.12	2.88	2490271	5187342	102.656	107.370	103	107	Y
Dicamba	8.21	7.92	6895015	17053570	98.783	115.061	98.8	115	Y
Dichlorprop	8.96	8.76	1766433	4777590	94.726	114.529	94.7	115	Y
Dinoseb	11.68	11.32	5350136	13905952	86.479	101.684	86.5	102	Y
MCPA	8.56	8.36	578324	2754856	9877.012	12681.293	9880	12700	Y
MCPP	8.29	8.11	440750	2098927	9993.352	13087.736	9990	13100	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

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Data File : J:\gc24\data\112820\11280049.D Vial: 16
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 4:37 am Operator: SM
 Sample : PENTA-2 41C 100C Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 11:23:59 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.991	7.821	1762395	4633615	96.853	109.547
Target Compounds						
1) m Dalapon	3.124	2.878	2490271	5187342	102.656	107.370
3) m Dicamba	8.211	7.924	6895015	17053570	98.783	115.061
4) m MCPP	8.294	8.111	440750	2098927	9993.352	13087.736 #
5) m MCPA	8.561	8.361	578324	2754856	9877.012	12681.293 #
6) m Dichloroprop	8.961	8.758	1766433	4777590	94.726	114.529
7) m 2,4-D	9.318	9.064	1854735	5203678	87.322	101.637
8) m 2,4,5-TP ...	10.254	10.134	8727419	22805372	93.161	112.343
9) m 2,4,5-T	10.701	10.538	6475013	16958026	78.476	88.615
10) m 2,4-DB	11.281	11.174	769669	2393276	75.021	82.482
11) m Dinoseb	11.678	11.321	5350136	13905952	86.479	101.684

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

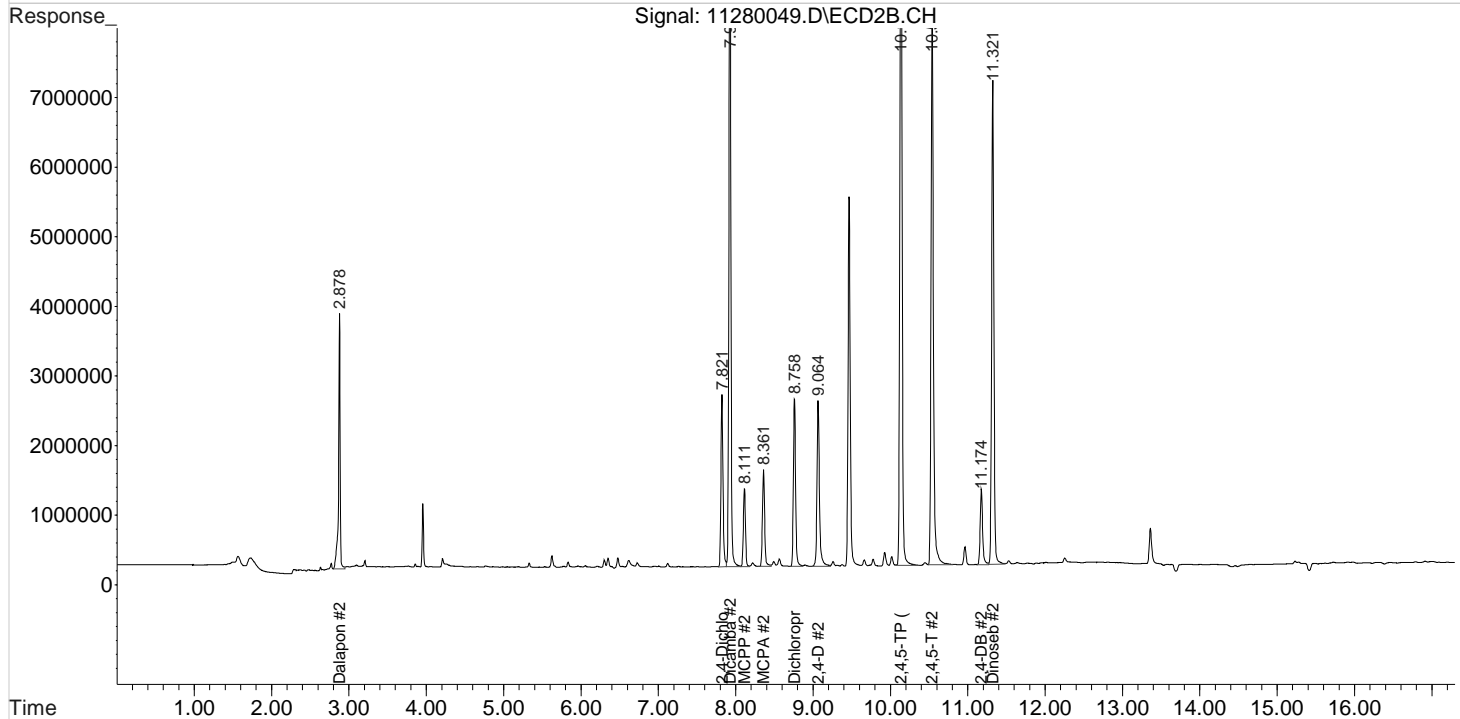
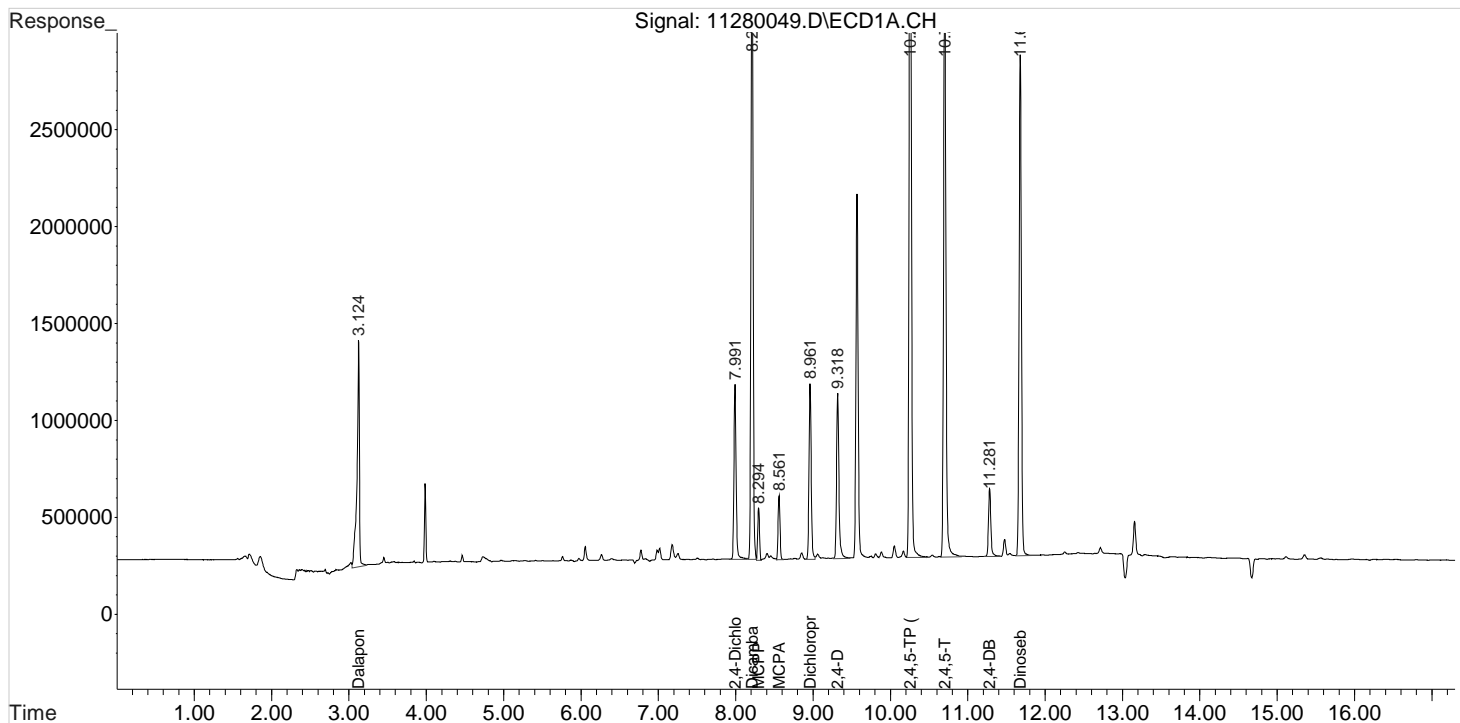
Data File : J:\gc24\data\112820\11280049.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 4:37 am
Sample : PENTA-2 41C 100C
Misc :

Vial: 16
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 11:23:59 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280061.D\
Lab ID: KQ2018923-11
RunType: CCV
Matrix: Sediment

Date Acquired: 11/29/20 09:11:00
Batch ID: 705101
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 *UA* 12/02/20
2nd *SW* 12/02/20

Data File: J:\gc24\data\112820\11280061.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 09:11:00	Vial: 9
Run Type: CCV	Dilution: 1
Lab ID: KQ2018923-11	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.00	7.83	1689871	4449250	92.867	105.189			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	10.27	10.14	8263443	21928666	88.208	108.024	88.2	108	Y
2,4-D	9.33	9.07	1754880	4937060	82.621	96.430	82.6	96.4	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

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Quantitation Report

1st SM 11/29/20
2nd ^{UA} 12/01/20

Data File: J:\gc24\data\112820\11280061.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 09:11:00	Vial: 9
Run Type: CCV	Dilution: 1
Lab ID: KQ2018923-11	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		% Rec		Rpt?
					Conc 1	Conc 2	1	2	
2,4-Dichlorophenylacetic Acid	8.00	7.83	1689871	4449250	92.867	105.189			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		Final		Rpt?
					Conc 1	Conc 2	Conc 1	Conc 2	
2,4,5-T	10.71	10.55	6031885	16611589	73.105	86.805	73.1	86.8	Y
2,4,5-TP (Silvex)	10.27	10.14	8263443	21928666	88.208	108.024	88.2	108	Y
2,4-D	9.33	9.07	1754880	4937060	82.621	96.430	82.6	96.4	Y
2,4-DB	11.29	11.18	718538	2232335	70.037	76.935	70.0	76.9	Y
Dalapon	3.12	2.88	2395484	5196467	98.748	107.559	98.7	108	Y
Dicamba	8.22	7.93	6620623	16444642	94.852	110.953	94.9	111	Y
Dichlorprop	8.97	8.77	1681205	4596784	90.156	110.195	90.2	110	Y
Dinoseb	11.69	11.33	5097716	13660280	82.399	99.887	82.4	99.9	Y
MCPA	8.57	8.37	575839	2717890	9834.572	12485.918	9830	12500	Y
MCPP	8.30	8.12	435393	2038563	9878.074	12670.537	9880	12700	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

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Data File : J:\gc24\data\112820\11280061.D Vial: 16
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 9:11 am Operator: SM
 Sample : PENTA-2 41C 100C Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 11:24:35 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	7.997	7.830	1689871	4449250	92.867	105.189
Target Compounds						
1) m Dalapon	3.123	2.877	2395484	5196467	98.748	107.559
3) m Dicamba	8.220	7.934	6620623	16444642	94.852	110.953
4) m MCPP	8.303	8.120	435393	2038563	9878.074	12670.537 #
5) m MCPA	8.567	8.367	575839	2717890	9834.572	12485.918 #
6) m Dichloroprop	8.970	8.767	1681205	4596784	90.156	110.195
7) m 2,4-D	9.327	9.074	1754880	4937060	82.621	96.430
8) m 2,4,5-TP ...	10.267	10.144	8263443	21928666	88.208	108.024
9) m 2,4,5-T	10.710	10.550	6031885	16611589	73.105	86.805
10) m 2,4-DB	11.293	11.184	718538	2232335	70.037	76.935
11) m Dinoseb	11.687	11.330	5097716	13660280	82.399	99.887

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

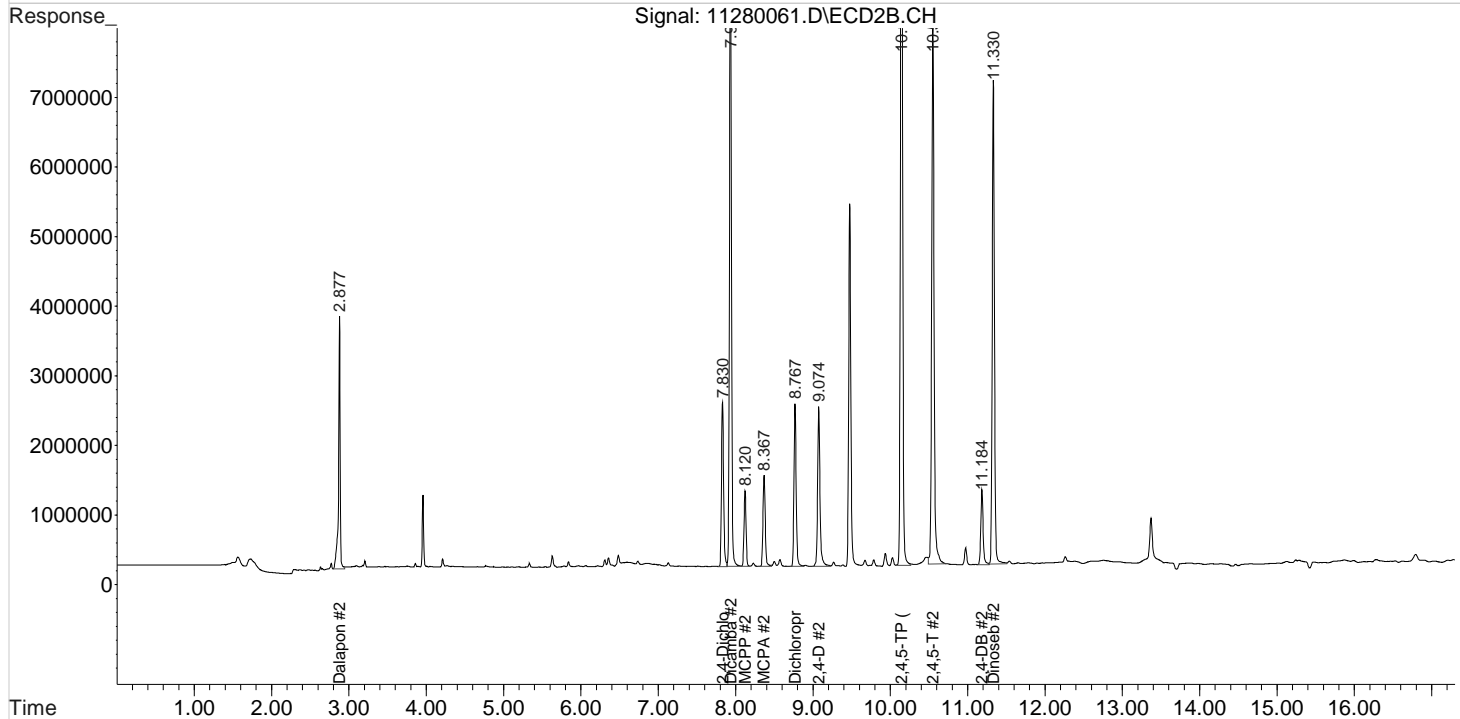
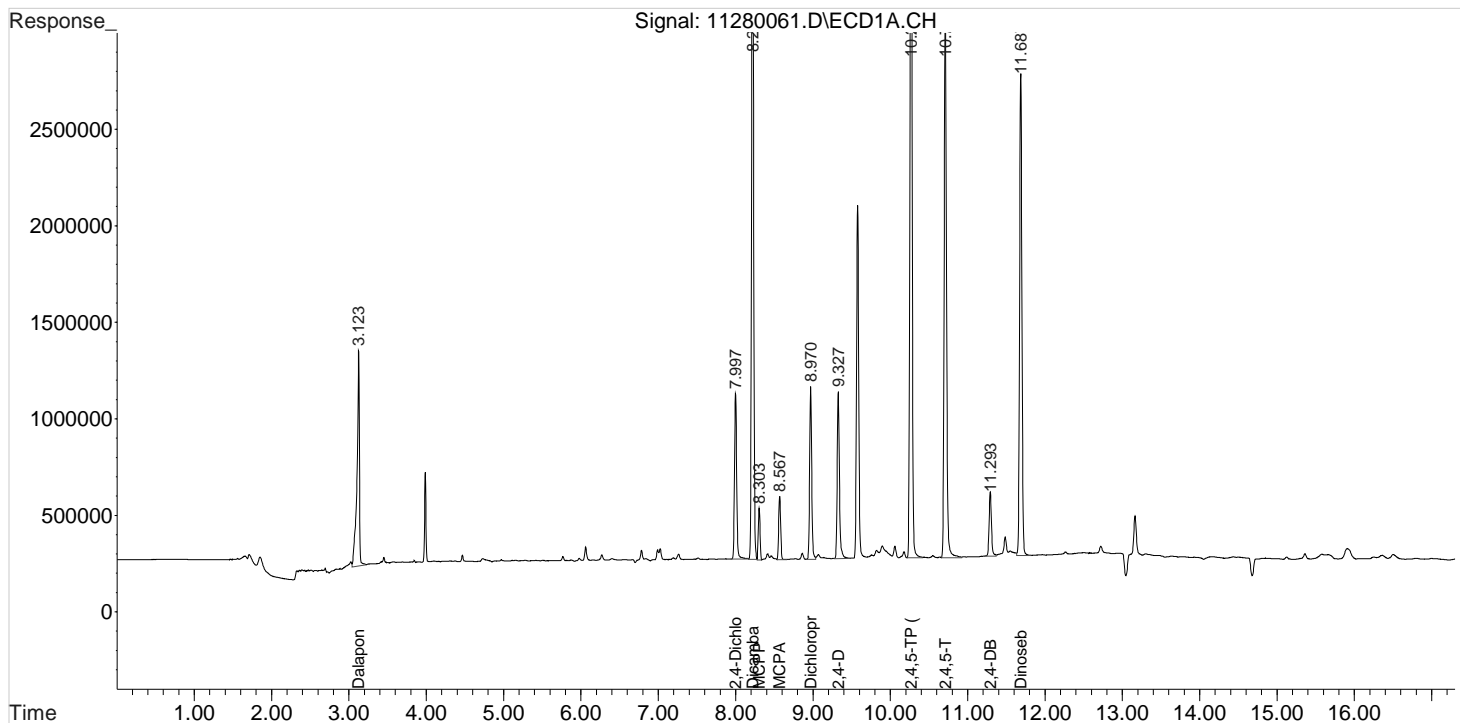
Data File : J:\gc24\data\112820\11280061.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 9:11 am
Sample : PENTA-2 41C 100C
Misc :

Vial: 16
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 11:24:35 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280073.D\
Lab ID: KQ2018923-13
RunType: CCV
Matrix: Sediment

Date Acquired: 11/29/20 13:46:00
Batch ID: 705101
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 *UA* 12/02/20
2nd *SW* 12/02/20

Data File: J:\gc24\data\112820\11280073.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 13:46:00	Vial: 7
Run Type: CCV	Dilution: 1
Lab ID: KQ2018923-13	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.00	7.83	1741848	4742656	95.724	112.125			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	10.26	10.14	8741515	24076451	93.311	118.604	93.3	119	Y
2,4-D	9.32	9.07	1835312	5474627	86.408	106.929	86.4	107	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

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Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280073.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 13:46:00	Vial: 7
Run Type: CCV	Dilution: 1
Lab ID: KQ2018923-13	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		% Rec		Rpt?
					Conc 1	Conc 2	1	2	
2,4-Dichlorophenylacetic Acid	8.00	7.83	1741848	4742656	95.724	112.125			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		Final		Rpt?
					Conc 1	Conc 2	Conc 1	Conc 2	
2,4,5-T	10.71	10.55	6629968	18030574	80.354	94.220	80.4	94.2	Y
2,4,5-TP (Silvex)	10.26	10.14	8741515	24076451	93.311	118.604	93.3	119	Y
2,4-D	9.32	9.07	1835312	5474627	86.408	106.929	86.4	107	Y
2,4-DB	11.29	11.18	781888	2584084	76.212	89.058	76.2	89.1	Y
Dalapon	3.12	2.88	2416507	5272264	99.615	109.128	99.6	109	Y
Dicamba	8.22	7.93	6830080	17424612	97.852	117.565	97.9	118	Y
Dichlorprop	8.97	8.76	1762546	4931054	94.518	118.208	94.5	118	Y
Dinoseb	11.69	11.33	5486888	14902048	88.690	108.967	88.7	109	Y
MCPA	8.57	8.37	577763	2820217	9867.431	13026.744	9870	13000	Y
MCPP	8.30	8.12	437443	2136787	9922.188	13349.401	9920	13300	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

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Data File : J:\gc24\data\112820\11280073.D Vial: 16
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 1:46 pm Operator: SM
 Sample : PENTA-2 41C 100C Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 19:24:27 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.998	7.828	1741848	4742656	95.724	112.125
Target Compounds						
1) m Dalapon	3.125	2.878	2416507	5272264	99.615	109.128
3) m Dicamba	8.218	7.931	6830080	17424612	97.852	117.565
4) m MCPP	8.301	8.118	437443	2136787	9922.188	13349.401 #
5) m MCPA	8.568	8.368	577763	2820217	9867.431	13026.744 #
6) m Dichloroprop	8.968	8.765	1762546	4931054	94.518	118.208 #
7) m 2,4-D	9.325	9.075	1835312	5474627	86.408	106.929
8) m 2,4,5-TP ...	10.265	10.145	8741515	24076451	93.311	118.604 #
9) m 2,4,5-T	10.708	10.548	6629968	18030574	80.354	94.220
10) m 2,4-DB	11.291	11.181	781888	2584084	76.212	89.058
11) m Dinoseb	11.688	11.331	5486888	14902048	88.690	108.967

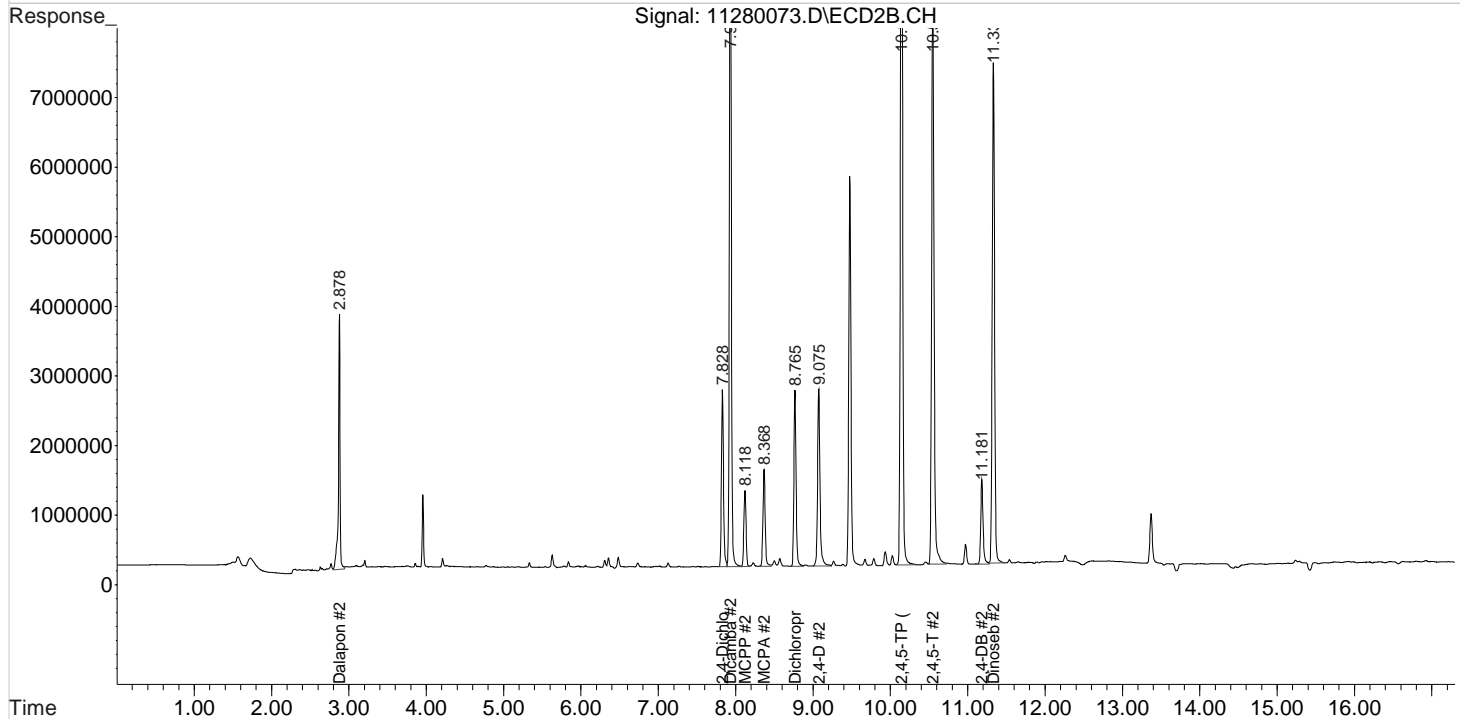
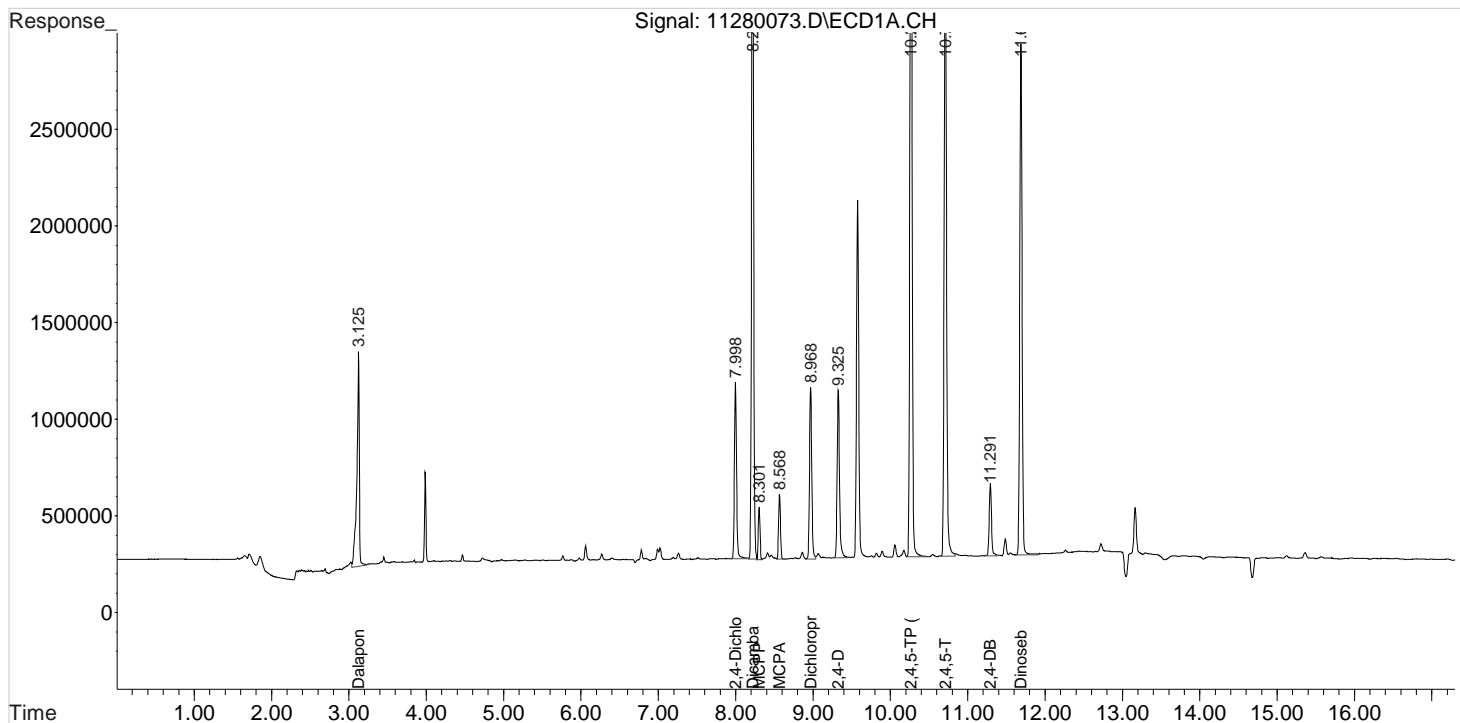
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\gc24\data\112820\11280073.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 1:46 pm
Sample : PENTA-2 41C 100C
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 19:24:27 2020
Quant Results File: 102120_8151.RES

Vial: 16
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *SM* 11/29/20
2nd *JA* 12/01/20

Data File: J:\gc24\data\112820\11280085.D\
Lab ID: KQ2018923-15
RunType: CCV
Matrix: Sediment

Date Acquired: 11/29/20 18:21:00
Batch ID: 705101
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 *UA* 12/02/20
2nd *SW* 12/02/20

Data File: J:\gc24\data\112820\11280085.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 18:21:00	Vial: 5
Run Type: CCV	Dilution: 1
Lab ID: KQ2018923-15	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.00	7.83	1675118	4579736	92.057	108.273			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	10.26	10.14	8461890	22880533	90.326	112.713	90.3	113	Y
2,4-D	9.32	9.07	1811165	5212752	85.271	101.814	85.3	102	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

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

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

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

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Quantitation Report

1st *SM* 11/29/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280085.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 18:21:00	Vial: 5
Run Type: CCV	Dilution: 1
Lab ID: KQ2018923-15	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		% Rec		Rpt?
					Conc 1	Conc 2	1	2	
2,4-Dichlorophenylacetic Acid	8.00	7.83	1675118	4579736	92.057	108.273			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		Final		Rpt?
					Conc 1	Conc 2	Conc 1	Conc 2	
2,4,5-T	10.71	10.55	6294435	17038817	76.287	89.037	76.3	89.0	Y
2,4,5-TP (Silvex)	10.26	10.14	8461890	22880533	90.326	112.713	90.3	113	Y
2,4-D	9.32	9.07	1811165	5212752	85.271	101.814	85.3	102	Y
2,4-DB	11.29	11.18	738367	2396864	71.970	82.605	72.0	82.6	Y
Dalapon	3.12	2.88	2419850	5307795	99.753	109.863	99.8	110	Y
Dicamba	8.22	7.93	6657633	16878461	95.382	113.880	95.4	114	Y
Dichlorprop	8.97	8.77	1706984	4747857	91.538	113.816	91.5	114	Y
Dinoseb	11.69	11.33	5217361	14259942	84.333	104.272	84.3	104	Y
MCPA	8.57	8.37	571281	2765775	9756.727	12739.003	9760	12700	Y
MCPP	8.30	8.12	434710	2068635	9863.377	12878.376	9860	12900	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: 11/30/20 7:36

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Data File : J:\gc24\data\112820\11280085.D Vial: 16
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 6:21 pm Operator: SM
 Sample : PENTA-2 41C 100C Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 29 19:25:03 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.997	7.827	1675118	4579736	92.057	108.273
Target Compounds						
1) m Dalapon	3.124	2.877	2419850	5307795	99.753	109.863
3) m Dicamba	8.217	7.931	6657633	16878461	95.382	113.880
4) m MCPP	8.304	8.121	434710	2068635	9863.377	12878.376 #
5) m MCPA	8.567	8.367	571281	2765775	9756.727	12739.003 #
6) m Dichloroprop	8.967	8.767	1706984	4747857	91.538	113.816
7) m 2,4-D	9.324	9.074	1811165	5212752	85.271	101.814
8) m 2,4,5-TP ...	10.264	10.144	8461890	22880533	90.326	112.713
9) m 2,4,5-T	10.710	10.547	6294435	17038817	76.287	89.037
10) m 2,4-DB	11.290	11.184	738367	2396864	71.970	82.605
11) m Dinoseb	11.687	11.331	5217361	14259942	84.333	104.272

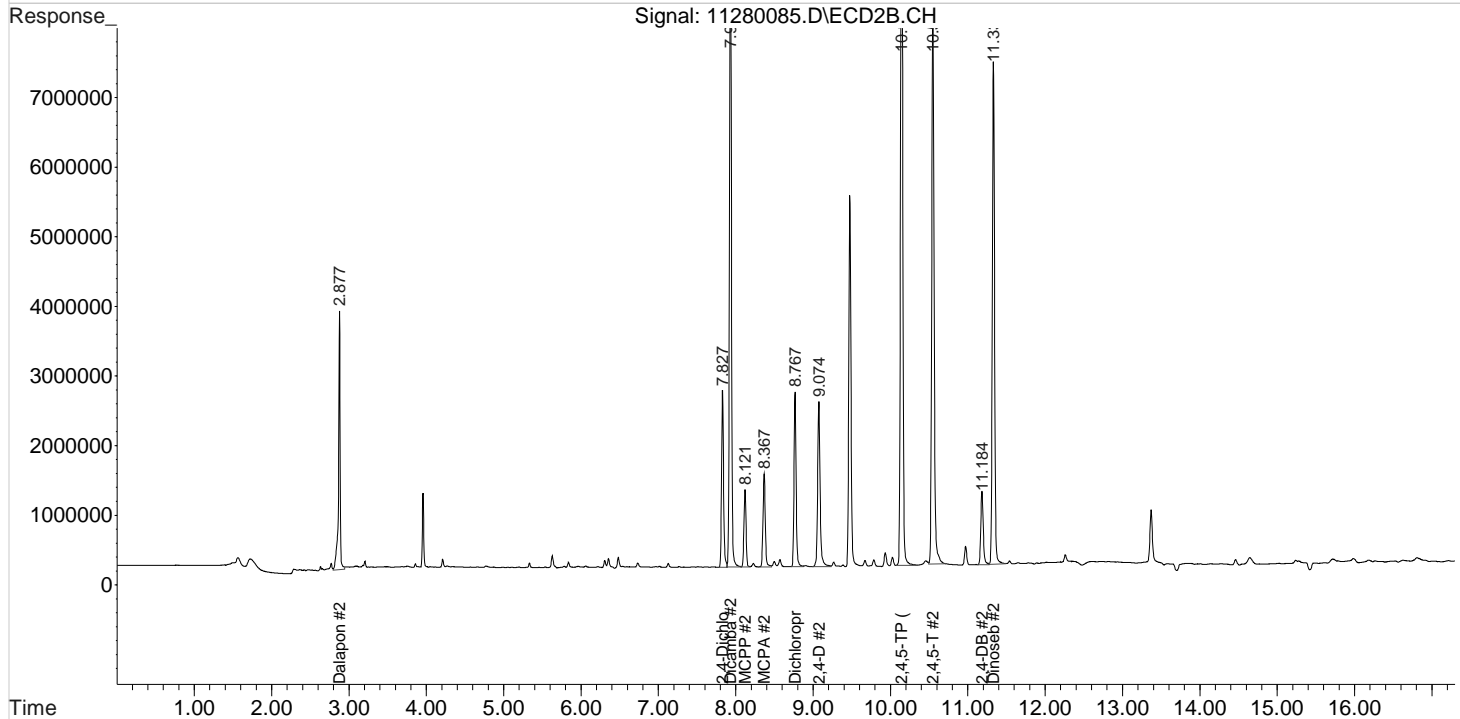
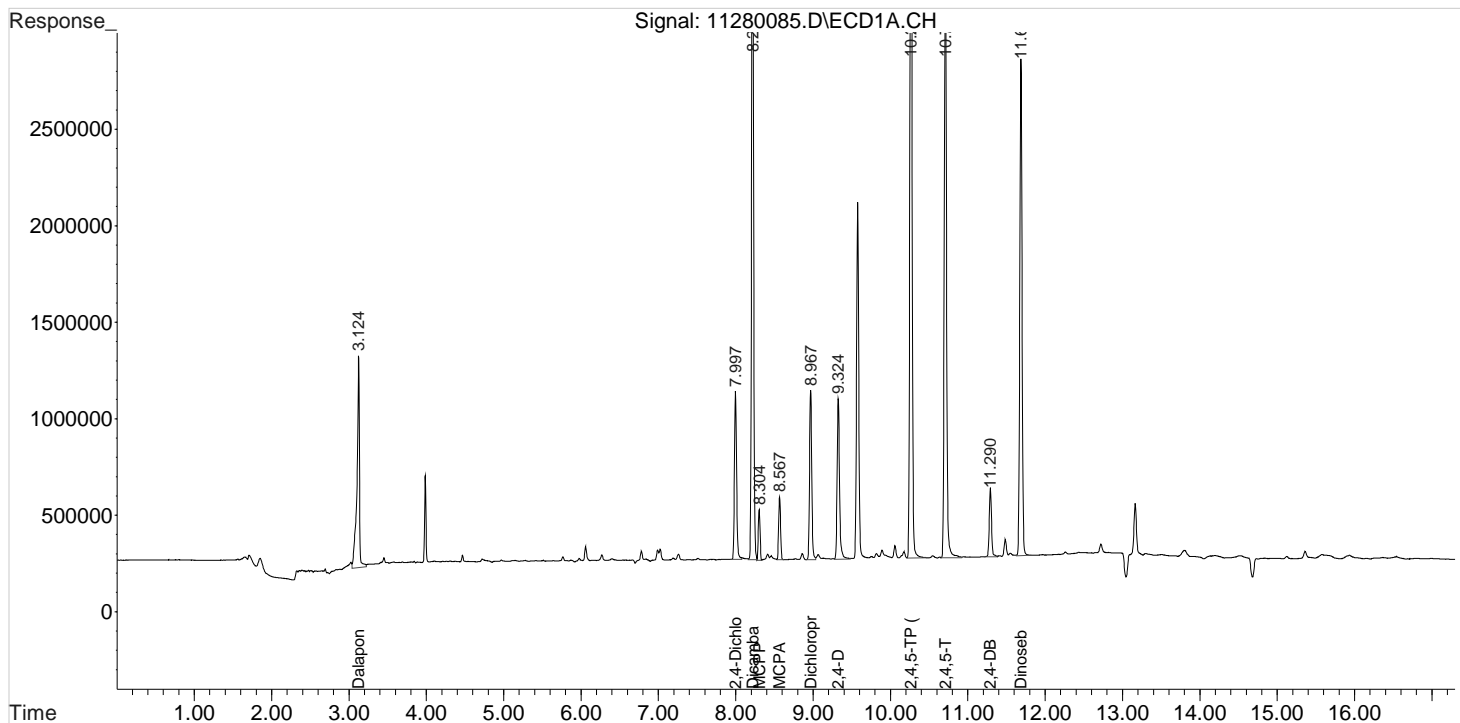
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\gc24\data\112820\11280085.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 6:21 pm
Sample : PENTA-2 41C 100C
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 29 19:25:03 2020
Quant Results File: 102120_8151.RES

Vial: 16
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *SM* 11/30/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280096.D\
Lab ID: KQ2018923-17
RunType: CCV
Matrix: Sediment

Date Acquired: 11/29/20 22:33:00
Batch ID: 705101
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 *UA* 12/02/20
2nd *SW* 12/02/20

Data File: J:\gc24\data\112820\11280096.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 22:33:00	Vial: 3
Run Type: CCV	Dilution: 1
Lab ID: KQ2018923-17	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis Method: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	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	8.00	7.83	1699321	4612171	93.387	109.040			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	10.26	10.15	8403511	23029163	89.703	113.445	89.7	113	Y
2,4-D	9.32	9.07	1753349	5277098	82.549	103.071	82.5	103	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: 12/2/20 14:54

\\alprews001\starlims\LIMSReps\QuantValidation.rpt

Quantitation Report

1st *SM* 11/30/20
2nd *UA* 12/01/20

Data File: J:\gc24\data\112820\11280096.D\	Instrument: K-GC-24
Acqu Date: 11/29/20 22:33:00	Vial: 3
Run Type: CCV	Dilution: 1
Lab ID: KQ2018923-17	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/6/20	Receive Date: 11/10/20

Analysis Lot: 705101	Prep Lot:	Report Group: KQ2018923
Analysis: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 18726

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		% Rec		Rpt?
					Conc 1	Conc 2	1	2	
2,4-Dichlorophenylacetic Acid	8.00	7.83	1699321	4612171	93.387	109.040			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		Final		Rpt?
					Conc 1	Conc 2	Conc 1	Conc 2	
2,4,5-T	10.71	10.55	6328523	17359956	76.700	90.715	76.7	90.7	Y
2,4,5-TP (Silvex)	10.26	10.15	8403511	23029163	89.703	113.445	89.7	113	Y
2,4-D	9.32	9.07	1753349	5277098	82.549	103.071	82.5	103	Y
2,4-DB	11.29	11.18	751510	2474701	73.251	85.288	73.3	85.3	Y
Dalapon	3.12	2.88	2363158	5235946	97.416	108.376	97.4	108	Y
Dicamba	8.22	7.93	6643338	16901674	95.177	114.036	95.2	114	Y
Dichlorprop	8.97	8.77	1716976	4775406	92.074	114.477	92.1	114	Y
Dinoseb	11.68	11.33	5209063	14411137	84.199	105.378	84.2	105	Y
MCPA	8.57	8.37	565082	2748402	9650.856	12647.182	9650	12600	Y
MCPP	8.30	8.12	432792	2050515	9822.103	12753.142	9820	12800	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: 11/30/20 7:36

\\alprews001\starlims\LIMSReps\QuantValidation.rpt

Data File : J:\gc24\data\112820\11280096.D Vial: 16
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 29 Nov 2020 10:33 pm Operator: SM
 Sample : PENTA-2 41C 100C Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 30 07:16:07 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:30:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.998	7.828	1699321	4612171	93.387	109.040
Target Compounds						
1) m Dalapon	3.125	2.878	2363158	5235946	97.416	108.376
3) m Dicamba	8.218	7.928	6643338	16901674	95.177	114.036
4) m MCPP	8.305	8.118	432792	2050515	9822.103	12753.142 #
5) m MCPA	8.568	8.365	565082	2748402	9650.856	12647.182 #
6) m Dichloroprop	8.968	8.765	1716976	4775406	92.074	114.477
7) m 2,4-D	9.325	9.072	1753349	5277098	82.549	103.071
8) m 2,4,5-TP ...	10.265	10.145	8403511	23029163	89.703	113.445 #
9) m 2,4,5-T	10.708	10.548	6328523	17359956	76.700	90.715
10) m 2,4-DB	11.292	11.182	751510	2474701	73.251	85.288
11) m Dinoseb	11.685	11.332	5209063	14411137	84.199	105.378 #

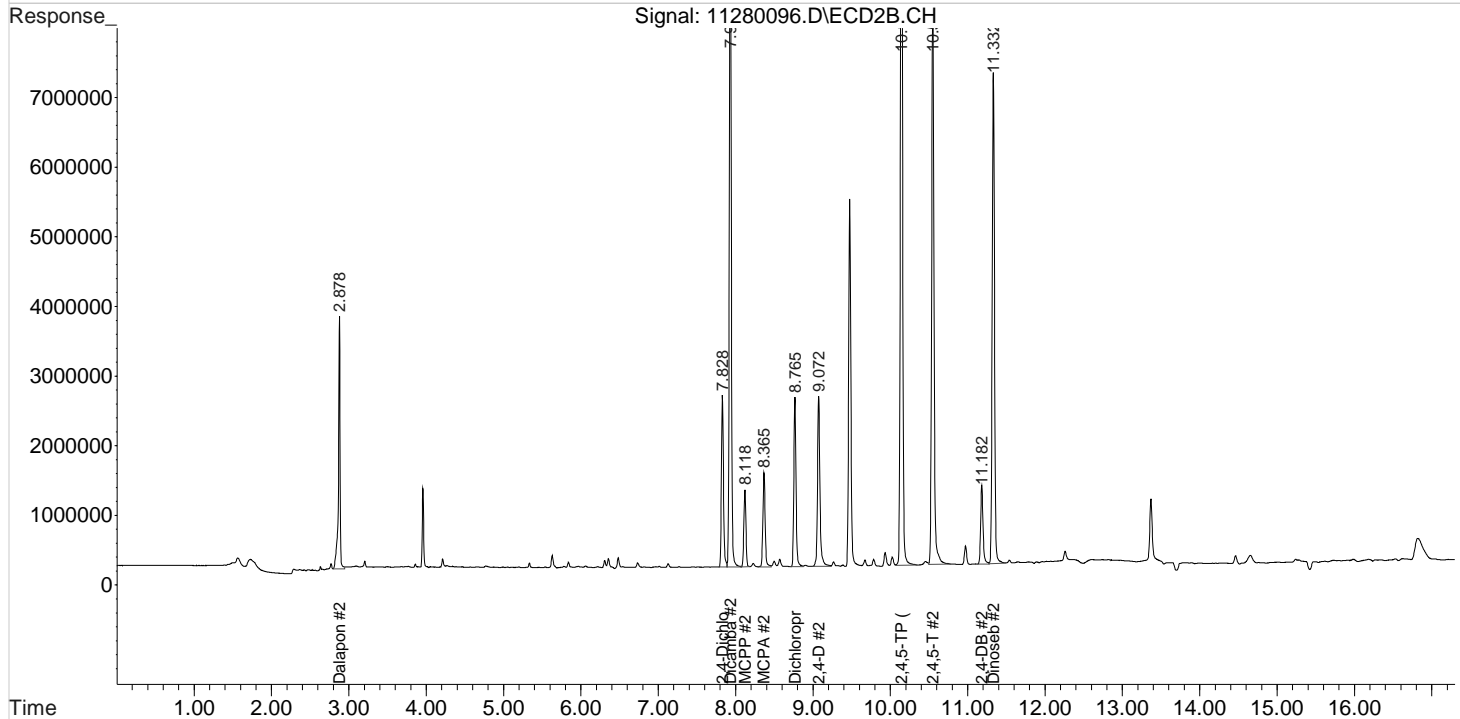
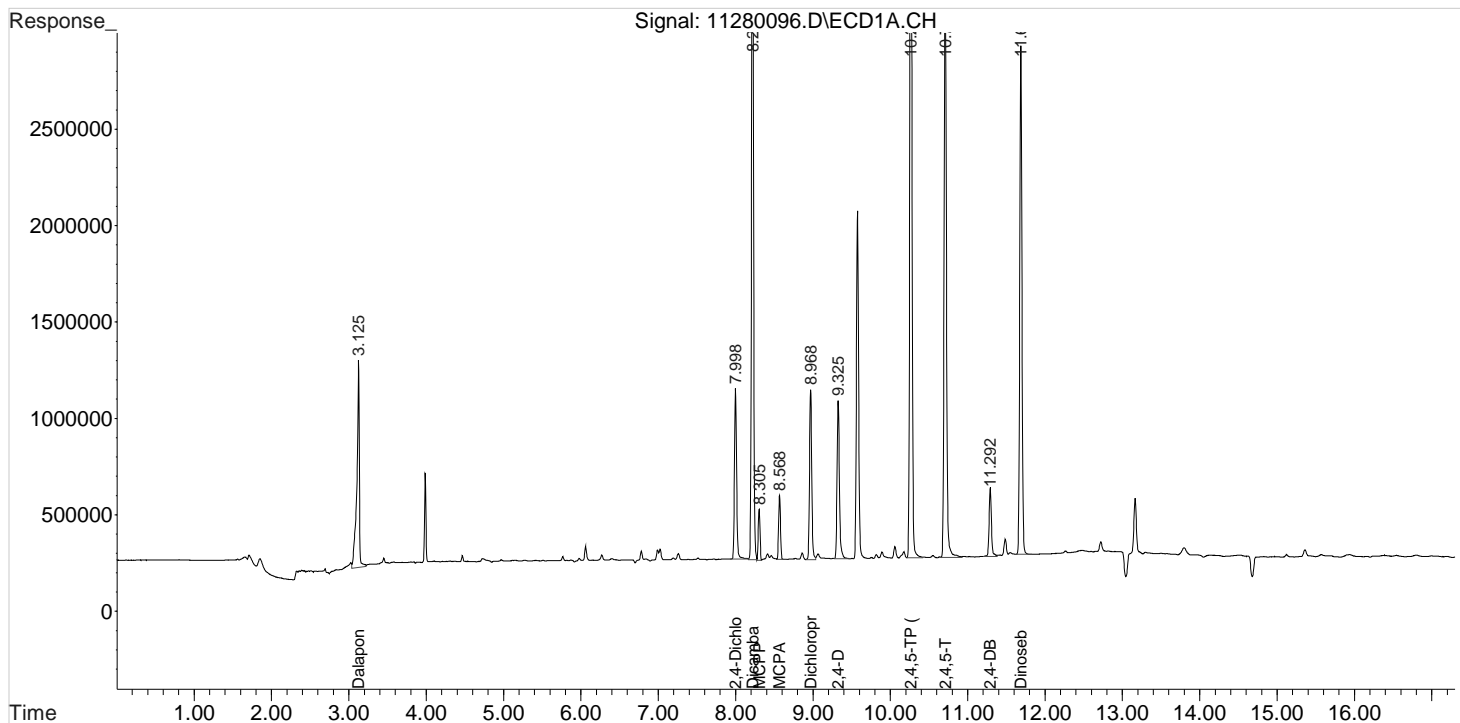
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\gc24\data\112820\11280096.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Nov 2020 10:33 pm
Sample : PENTA-2 41C 100C
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 30 07:16:07 2020
Quant Results File: 102120_8151.RES

Vial: 16
Operator: SM
Inst : HP G1530A
Multiplr: 1.00

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:30:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Injection Log

Directory: J:\gc24\data\102120

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	100	10210001.d	1.	CCV PRIMER		21 Oct 2020 12:34
2	100	10210002.d	1.	CCV PRIMER		21 Oct 2020 12:58
3	1	10210003.d	1.	IB		Unrecognized:Un
4	3	10210004.d	1.	PENTA2-14K 10PPB		Unrecognized:Un
5	4	10210005.d	1.	PENTA2-14L 25PPB		Unrecognized:Un
6	5	10210006.d	1.	PENTA2-14M 75PPB		Unrecognized:Un
7	6	10210007.d	1.	PENTA2-14N 100PB		Unrecognized:Un
8	7	10210008.d	1.	PENTA2-15A 125PB		Unrecognized:Un
9	8	10210009.d	1.	PENTA2-15B 150PB		Unrecognized:Un
10	9	10210010.d	1.	PENTA2-15C 175PB		Unrecognized:Un
11	10	10210011.d	1.	PENTA2-15D 200PB		Unrecognized:Un
12	11	10210012.d	1.	PENTA2-15E ICV 100 PPB		Unrecognized:Un

ICAL: Kc2000566

ALS-Kelso
Initial Calibration Checklist GC

Method: 8151A Herb
ICAL ID or Date: KC2000566
Instrument: GC-24

Primary Secondary

- The new ICAL is saved with a unique ID.
- ICAL was performed continuously (i.e. not interrupted by maintenance event).
- All analytes in blank are $< \frac{1}{2}$ MRL.
- ICAL contains minimum number of concentrations.
- No internal levels excluded for any analytes.
- Retention times updated using a midpoint of the calibration. Secondary reviewer double check peak IDs.
- Calibration files quantitated with new method.
- Check integrations. Primary reviewer must check all integrations electronically. Secondary reviewer will check low point and high point electronically.
- ICAL files added to calibration table.
- The average RF or COD meets method criteria for all analytes.
- ICV is quantitated against new ICAL.
- ICV meets method criteria.
- Linked in ^{LIMS}Stealth to an appropriate method. An appropriate method will be one that contains all analytes that were analyzed.
- All calibration reports included: ICAL SUMMARY, ICAL DETAILED, ICV SUMMARY.
- Enviroquant/Target responses match those in ^{LIMS}Stealth.
- All quant reports and manual integrations initialed and dated.

Data packet should be in the following order: Sequence log, Calibration Review, Stealth ICAL reports, and quant reports.

Primary: [Signature]

Date: 10-21-20

Secondary: [Signature]

Date: 10/22/20

Method Path : J:\gc24\Methods\
 Method File : 102120_8151.M
 Title : 103118_8151.m MJ215 CAL_KC1800
 Last Update : Wed Oct 21 17:31:59 2020
 Response Via : Initial Calibration

Calibration Files

1 =10210004.D 2 =10210005.D =
 4 =10210006.D 5 =10210007.D 6 =10210008.D

Compound	1	2	4	5	6	Avg	%RSD
1) m Dalapon	2.671	2.733	2.254	2.374	2.344	2.385	2.426 E4 7.29
2) s 2,4-Dichlorop...	2.115	2.015	1.798	1.794	1.738	1.732	1.820 E4 8.79
3) m Dicamba	7.596	7.540	6.777	6.892	6.778	6.830	6.980 E4 5.27
4) m MCPP	2.001	3.740	4.291	4.480	4.454	4.501	4.053 E1 21.41
5) m MCPA	4.567	6.110	6.022	6.133	6.030	6.046	5.855 E1 8.95
6) m Dichloroprop	2.275	2.117	1.795	1.815	1.755	1.752	1.865 E4 11.40
7) m 2,4-D	2.488	2.377	2.075	2.056	2.029	2.025	2.124 E4 9.25
8) m 2,4,5-TP (Sil...	9.752	9.790	9.082	9.310	9.221	9.360	9.368 E4 2.80
9) m 2,4,5-T	8.692	8.723	8.157	8.121	8.142	8.264	8.251 E4 3.64
10) m 2,4-DB	1.110	1.172	1.003	0.994	1.001	1.003	1.026 E4 7.40
11) m Dinoseb	6.933	6.670	6.137	6.031	5.965	6.030	6.187 E4 6.41

Signal #2 Calibration Files

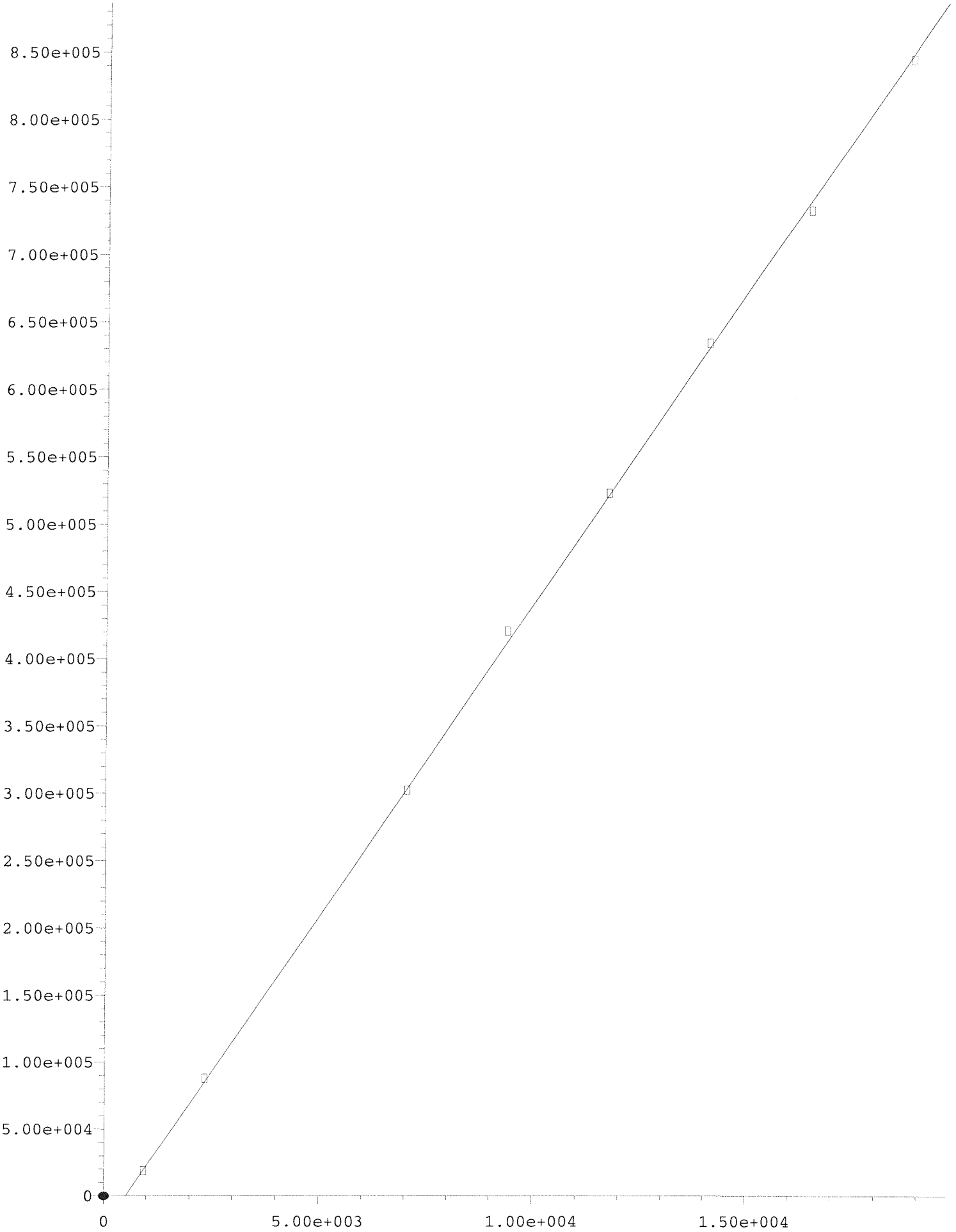
1 =10210004.D 2 =10210005.D =
 4 =10210006.D 5 =10210007.D 6 =10210008.D

Compound	1	2	4	5	6	Avg	%RSD
1) m Dalapon	5.105	5.207	4.698	4.631	4.838	4.664	4.831 E4 4.39
2) s 2,4-Dichlorop...	5.587	4.943	4.041	3.953	3.892	3.822	4.230 E4 15.77
3) m Dicamba	1.724	1.593	1.424	1.430	1.425	1.416	1.482 E5 7.71
4) m MCPP	3.248	2.629	1.847	1.727	1.645	1.574	1.963 E2 32.32
5) m MCPA	5.322	3.724	2.492	2.323	2.218	2.130	2.789 E2 41.64
6) m Dichloroprop	5.440	4.793	3.993	3.939	3.868	3.809	4.172 E4 14.71
7) m 2,4-D	6.995	5.929	4.845	4.767	4.681	4.616	5.120 E4 17.22
8) m 2,4,5-TP (Sil...	2.358	2.178	1.953	1.956	1.949	1.947	2.030 E5 7.62
9) m 2,4,5-T	2.241	2.074	1.833	1.848	1.821	1.835	1.914 E5 8.20
10) m 2,4-DB	3.572	3.225	2.779	2.756	2.726	2.732	2.902 E4 11.07
11) m Dinoseb	1.678	1.515	1.309	1.301	1.294	1.286	1.368 E5 10.83

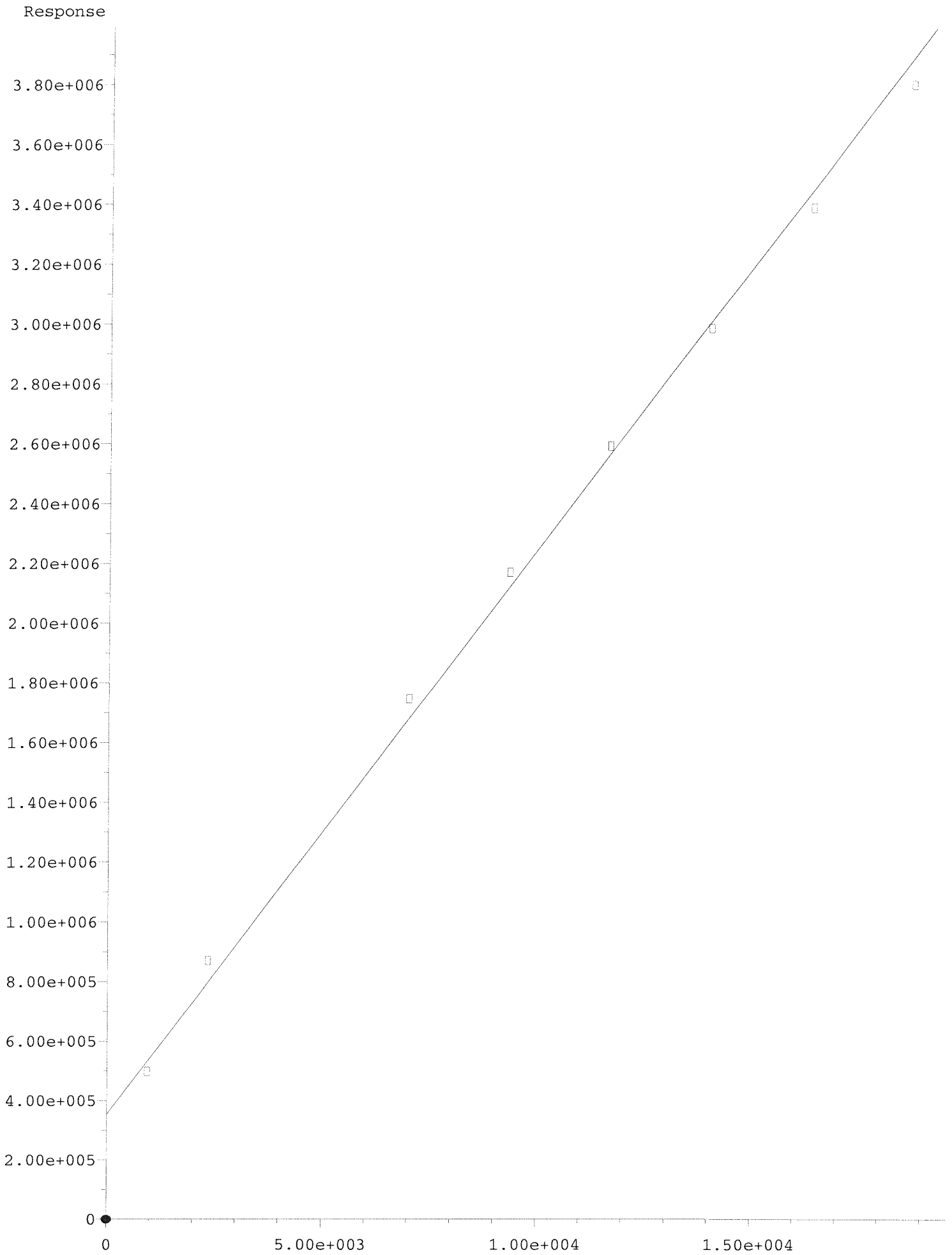
(#) = Out of Range ### Number of calibration levels exceeded format ###

102120_8151.M Wed Oct 21 17:48:58 2020

Response







Initial Calibration - Detailed Report

Calibration ID: KC2000566

Instrument ID: K-GC-24

Column Name: RTX-CLP2

#	Lab Code	Sample Name	File Location	Aquisition Date
01	KC2000566-01	PENTA2-14K 10PPB	J:\gc24\data\102120\10210004.D	10/21/2020 13:46
02	KC2000566-02	PENTA2-14L 25PPB	J:\gc24\data\102120\10210005.D	10/21/2020 14:09
03	KC2000566-03	PENTA2-14M 75PPB	J:\gc24\data\102120\10210006.D	10/21/2020 14:33
04	KC2000566-04	PENTA2-14N 100PB	J:\gc24\data\102120\10210007.D	10/21/2020 14:57
05	KC2000566-05	PENTA2-15A 125PB	J:\gc24\data\102120\10210008.D	10/21/2020 15:21
06	KC2000566-06	PENTA2-15B 150PB	J:\gc24\data\102120\10210009.D	10/21/2020 15:44
07	KC2000566-07	PENTA2-15C 175PB	J:\gc24\data\102120\10210010.D	10/21/2020 16:08
08	KC2000566-08	PENTA2-15D 200PB	J:\gc24\data\102120\10210011.D	10/21/2020 16:32

Analyte			Curve Fit			Weighting					
2,4,5-T			Average RF			RSD = 3.638			Average RF = 8.251E4		
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.480	8.692E4	02	23.700	8.723E4	03	71.100	8.157E4	04	94.800	8.121E4
05	118.490	8.142E4	06	142.190	8.264E4	07	165.890	7.962E4	08	189.590	7.946E4
2,4,5-TP			Average RF			RSD = 2.798			Average RF = 9.368E4		
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.510	9.752E4	02	23.760	9.79E4	03	71.300	9.082E4	04	95.100	9.31E4
05	118.820	9.221E4	06	142.580	9.36E4	07	166.340	9.245E4	08	190.100	9.185E4
2,4-D			Average RF			RSD = 9.253			Average RF = 2.124E4		
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	2.488E4	02	23.510	2.377E4	03	70.500	2.075E4	04	94.000	2.056E4
05	117.540	2.029E4	06	141.050	2.025E4	07	164.560	1.991E4	08	188.060	1.951E4
2,4-DB			Average RF			RSD = 7.4			Average RF = 1.026E4		
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.470	1.11E4	02	23.670	1.172E4	03	71.000	1.003E4	04	94.700	9.938E3
05	118.330	1.001E4	06	142.000	1.003E4	07	165.670	9.847E3	08	189.340	9.399E3
Dalapon			Average RF			RSD = 7.292			Average RF = 2.426E4		
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.110	2.671E4	02	22.770	2.733E4	03	68.300	2.254E4	04	91.100	2.374E4
05	113.830	2.344E4	06	136.600	2.385E4	07	159.360	2.357E4	08	182.130	2.287E4
Dicamba			Average RF			RSD = 5.272			Average RF = 6.98E4		
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	7.596E4	02	23.510	7.54E4	03	70.500	6.777E4	04	94.000	6.892E4
05	117.540	6.778E4	06	141.050	6.83E4	07	164.560	6.719E4	08	188.060	6.708E4
Dichlorprop			Average RF			RSD = 11.4			Average RF = 1.865E4		
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.440	2.275E4	02	23.590	2.117E4	03	70.800	1.795E4	04	94.400	1.815E4
05	117.960	1.755E4	06	141.550	1.752E4	07	165.140	1.724E4	08	188.730	1.684E4
Dinoseb			Average RF			RSD = 6.412			Average RF = 6.187E4		
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.450	6.933E4	02	23.620	6.67E4	03	70.900	6.137E4	04	94.500	6.031E4
05	118.100	5.965E4	06	141.720	6.03E4	07	165.340	5.89E4	08	188.960	5.837E4

Initial Calibration - Detailed Report

Calibration ID: KC2000566

Instrument ID: K-GC-24
Column Name: RTX-CLP2

MCPA

#	Amount	RF
01	934.770	45.67
05	11683.01	60.3
0		

Average RF

#	Amount	RF
02	2336.600	61.1
06	14019.61	60.46
0		

RSD = 8.948

#	Amount	RF
03	7010.000	60.22
07	16356.21	59.76
0		

Average RF = 5.855E1

#	Amount	RF
04	9346.000	61.33
08	18692.82	59.57
0		

MCPP

#	Amount	RF
01	938.770	20.01
05	11733.10	44.54
0		

Linear

#	Amount	RF
02	2346.620	37.4
06	14079.72	45.01
0		

1/X

R2 =

#	Amount	RF
03	7040.000	42.91
07	16426.34	44.58
0		

0.99984741644702

Y=46.47 X+-2.364E+04

#	Amount	RF
04	9386.000	44.8
08	18772.96	44.98
0		

2,4-Dichlorophenylacetic Acid

#	Amount	RF
01	9.020	2.115E4
05	112.730	1.738E4

Average RF

#	Amount	RF
02	22.550	2.015E4
06	135.280	1.732E4

RSD = 8.791

#	Amount	RF
03	67.600	1.798E4
07	157.830	1.694E4

Average RF = 1.82E4

#	Amount	RF
04	90.200	1.794E4
08	180.370	1.67E4

Analyte

2,4,5-T

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.480	9.99	5.3	02	23.700	25.1	5.7	03	71.100	70.3	-1.1
04	94.800	93.3	-1.6	05	118.490	117	-1.3	06	142.190	142	0.2
07	165.890	160	-3.5	08	189.590	183	-3.7				

2,4,5-TP

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.510	9.90	4.1	02	23.760	24.8	4.5	03	71.300	69.1	-3.1
04	95.100	94.5	-0.6	05	118.820	117	-1.6	06	142.580	142	-0.1
07	166.340	164	-1.3	08	190.100	186	-2.0				

2,4-D

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.400	11.0	17.2	02	23.510	26.3	11.9	03	70.500	68.9	-2.3
04	94.000	91.0	-3.2	05	117.540	112	-4.5	06	141.050	134	-4.7
07	164.560	154	-6.3	08	188.060	173	-8.2				

2,4-DB

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.470	10.2	8.2	02	23.670	27.0	14.3	03	71.000	69.4	-2.3
04	94.700	91.7	-3.1	05	118.330	116	-2.4	06	142.000	139	-2.3
07	165.670	159	-4.0	08	189.340	173	-8.4				

Dalapon

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.110	10.0	10.1	02	22.770	25.7	12.7	03	68.300	63.5	-7.1
04	91.100	89.1	-2.1	05	113.830	110	-3.4	06	136.600	134	-1.7
07	159.360	155	-2.8	08	182.130	172	-5.7				

Dicamba

Initial Calibration - Detailed Report

Calibration ID: KC2000566

Instrument ID: K-GC-24

Column Name: RTX-CLP2

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	9.400	10.2	8.8	02	23.510	25.4	8.0	03	70.500	68.5	-2.9
04	94.000	92.8	-1.3	05	117.540	114	-2.9	06	141.050	138	-2.2
07	164.560	158	-3.7	08	188.060	181	-3.9				

Dichlorprop

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	9.440	11.5	22.0	02	23.590	26.8	13.5	03	70.800	68.2	-3.7
04	94.400	91.9	-2.7	05	117.960	111	-5.9	06	141.550	133	-6.0
07	165.140	153	-7.6	08	188.730	170	-9.7				

Dinoseb

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	9.450	10.6	12.1	02	23.620	25.5	7.8	03	70.900	70.3	-0.8
04	94.500	92.1	-2.5	05	118.100	114	-3.6	06	141.720	138	-2.5
07	165.340	157	-4.8	08	188.960	178	-5.6				

MCPA

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	934.770	729	-22.0	02	2336.600	2440	4.4	03	7010.000	7210	2.8
04	9346.000	9790	4.7	05	11683.010	12000	3.0	06	14019.610	14500	3.3
07	16356.210	16700	2.1	08	18692.820	19000	1.7				

MCPP

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	938.770	913	-2.8	02	2346.620	2400	2.2	03	7040.000	7010	-0.4
04	9386.000	9560	1.8	05	11733.100	11800	0.2	06	14079.720	14100	0.5
07	16426.340	16300	-1.0	08	18772.960	18700	-0.5				

2,4-Dichlorophenylacetic Acid

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	9.020	10.5	16.3	02	22.550	25.0	10.7	03	67.600	66.8	-1.2
04	90.200	88.9	-1.4	05	112.730	108	-4.5	06	135.280	129	-4.8
07	157.830	147	-6.9	08	180.370	166	-8.2				

Calibration ID: KC2000566

Instrument ID: K-GC-24

Column Name: ZB-XLB-HT

Initial Calibration - Detailed Report

Calibration ID: KC2000566

Instrument ID: K-GC-24

Column Name: ZB-XLB-HT

#	Lab Code	Sample Name	File Location	Aquisition Date
01	KC2000566-01	PENTA2-14K 10PPB	J:\gc24\data\102120\10210004.D\10210004c.d	10/21/2020 13:46
02	KC2000566-02	PENTA2-14L 25PPB	J:\gc24\data\102120\10210005.D\10210005c.d	10/21/2020 14:09
03	KC2000566-03	PENTA2-14M 75PPB	J:\gc24\data\102120\10210006.D\10210006c.d	10/21/2020 14:33
04	KC2000566-04	PENTA2-14N 100PB	J:\gc24\data\102120\10210007.D\10210007c.d	10/21/2020 14:57
05	KC2000566-05	PENTA2-15A 125PB	J:\gc24\data\102120\10210008.D\10210008c.d	10/21/2020 15:21
06	KC2000566-06	PENTA2-15B 150PB	J:\gc24\data\102120\10210009.D\10210009c.d	10/21/2020 15:44
07	KC2000566-07	PENTA2-15C 175PB	J:\gc24\data\102120\10210010.D\10210010c.d	10/21/2020 16:08
08	KC2000566-08	PENTA2-15D 200PB	J:\gc24\data\102120\10210011.D\10210011c.d	10/21/2020 16:32

Analyte

Curve Fit

Weighting

2,4,5-T

Average RF

RSD = 8.204

Average RF = 1.914E5

#	Amount	RF
01	9.480	2.241E5
05	118.490	1.821E5

#	Amount	RF
02	23.700	2.074E5
06	142.190	1.835E5

#	Amount	RF
03	71.100	1.833E5
07	165.890	1.828E5

#	Amount	RF
04	94.800	1.848E5
08	189.590	1.83E5

2,4,5-TP

Average RF

RSD = 7.62

Average RF = 2.03E5

#	Amount	RF
01	9.510	2.358E5
05	118.820	1.949E5

#	Amount	RF
02	23.760	2.178E5
06	142.580	1.947E5

#	Amount	RF
03	71.300	1.953E5
07	166.340	1.946E5

#	Amount	RF
04	95.100	1.956E5
08	190.100	1.952E5

2,4-D

Average RF

RSD = 17.22

Average RF = 5.12E4

#	Amount	RF
01	9.400	6.995E4
05	117.540	4.681E4

#	Amount	RF
02	23.510	5.929E4
06	141.050	4.616E4

#	Amount	RF
03	70.500	4.845E4
07	164.560	4.575E4

#	Amount	RF
04	94.000	4.767E4
08	188.060	4.551E4

2,4-DB

Average RF

RSD = 11.07

Average RF = 2.902E4

#	Amount	RF
01	9.470	3.572E4
05	118.330	2.726E4

#	Amount	RF
02	23.670	3.225E4
06	142.000	2.732E4

#	Amount	RF
03	71.000	2.779E4
07	165.670	2.706E4

#	Amount	RF
04	94.700	2.756E4
08	189.340	2.717E4

Dalapon

Average RF

RSD = 4.39

Average RF = 4.831E4

#	Amount	RF
01	9.110	5.105E4
05	113.830	4.838E4

#	Amount	RF
02	22.770	5.207E4
06	136.600	4.664E4

#	Amount	RF
03	68.300	4.698E4
07	159.360	4.774E4

#	Amount	RF
04	91.100	4.631E4
08	182.130	4.733E4

Dicamba

Average RF

RSD = 7.713

Average RF = 1.482E5

#	Amount	RF
01	9.400	1.724E5
05	117.540	1.425E5

#	Amount	RF
02	23.510	1.593E5
06	141.050	1.416E5

#	Amount	RF
03	70.500	1.424E5
07	164.560	1.42E5

#	Amount	RF
04	94.000	1.43E5
08	188.060	1.426E5

Dichlorprop

Average RF

RSD = 14.71

Average RF = 4.172E4

#	Amount	RF
01	9.440	5.44E4
05	117.960	3.868E4

#	Amount	RF
02	23.590	4.793E4
06	141.550	3.809E4

#	Amount	RF
03	70.800	3.993E4
07	165.140	3.779E4

#	Amount	RF
04	94.400	3.939E4
08	188.730	3.751E4

Dinoseb

Average RF

RSD = 10.83

Average RF = 1.368E5

#	Amount	RF
01	9.450	1.678E5
05	118.100	1.294E5

#	Amount	RF
02	23.620	1.515E5
06	141.720	1.286E5

#	Amount	RF
03	70.900	1.309E5
07	165.340	1.279E5

#	Amount	RF
04	94.500	1.301E5
08	188.960	1.278E5

Initial Calibration - Detailed Report

Calibration ID: KC2000566	Instrument ID: K-GC-24
	Column Name: ZB-XLB-HT

MCPA	Linear	1/X	R2 = 0.9970434185726530	Y=189.2 X+3.555E5
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 934.770 532.2	02 2336.600 372.4	03 7010.000 249.2	04 9346.000 232.3	
05 11683.01 221.8	06 14019.61 213	07 16356.21 207.2	08 18692.82 203.3	
0	0	0	0	

MCPP	Linear	1/X	R2 = 0.9944121406118910	Y=144.7 X+2.053E5
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 938.770 324.8	02 2346.620 262.9	03 7040.000 184.7	04 9386.000 172.7	
05 11733.10 164.5	06 14079.72 157.4	07 16426.34 153.2	08 18772.96 150.1	
0	0	0	0	

2,4-Dichlorophenylacetic Acid	Average RF	RSD = 15.77	Average RF = 4.23E4
# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 9.020 5.587E4	02 22.550 4.943E4	03 67.600 4.041E4	04 90.200 3.953E4
05 112.730 3.892E4	06 135.280 3.822E4	07 157.830 3.814E4	08 180.370 3.787E4

Analyte

2,4,5-T

# Amount	Calculated Conc	# Amount	Calculated Conc	# Amount	Calculated Conc
01 9.480	11.1	02 23.700	25.7	03 71.100	68.1
04 94.800	91.6	05 118.490	113	06 142.190	136
07 165.890	159	08 189.590	181		
	%D		%D		%D
	17.1		8.4		-4.2
	-3.4		-4.8		-4.1
	-4.5		-4.4		

2,4,5-TP

# Amount	Calculated Conc	# Amount	Calculated Conc	# Amount	Calculated Conc
01 9.510	11.0	02 23.760	25.5	03 71.300	68.6
04 95.100	91.6	05 118.820	114	06 142.580	137
07 166.340	159	08 190.100	183		
	%D		%D		%D
	16.2		7.3		-3.8
	-3.7		-4.0		-4.1
	-4.2		-3.8		

2,4-D

# Amount	Calculated Conc	# Amount	Calculated Conc	# Amount	Calculated Conc
01 9.400	12.8	02 23.510	27.2	03 70.500	66.7
04 94.000	87.5	05 117.540	107	06 141.050	127
07 164.560	147	08 188.060	167		
	%D		%D		%D
	36.6		15.8		-5.4
	-6.9		-8.6		-9.8
	-10.6		-11.1		

2,4-DB

# Amount	Calculated Conc	# Amount	Calculated Conc	# Amount	Calculated Conc
01 9.470	11.7	02 23.670	26.3	03 71.000	68.0
04 94.700	90.0	05 118.330	111	06 142.000	134
07 165.670	154	08 189.340	177		
	%D		%D		%D
	23.1		11.2		-4.2
	-5.0		-6.1		-5.8
	-6.8		-6.4		

Dalapon

# Amount	Calculated Conc	# Amount	Calculated Conc	# Amount	Calculated Conc
01 9.110	9.63	02 22.770	24.5	03 68.300	66.4
04 91.100	87.3	05 113.830	114	06 136.600	132
07 159.360	157	08 182.130	178		
	%D		%D		%D
	5.7		7.8		-2.8
	-4.1		0.1		-3.5
	-1.2		-2.0		

Dicamba

# Amount	Calculated Conc	# Amount	Calculated Conc	# Amount	Calculated Conc
01 9.110	9.63	02 22.770	24.5	03 68.300	66.4
04 91.100	87.3	05 113.830	114	06 136.600	132
07 159.360	157	08 182.130	178		
	%D		%D		%D
	5.7		7.8		-2.8
	-4.1		0.1		-3.5
	-1.2		-2.0		

Initial Calibration Verification Summary Report

Calibration ID:	KC2000566	Instrument ID:	K-GC-24
Datafile ID:	J:\gc24\data\102120\10210012.D	Column Name:	ZB-XLB-HT

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
2,4,5-T	KC2000566-09	T	Average RF	94.80	98.768	ppb	4.2	<= 20
2,4,5-TP	KC2000566-09	T	Average RF	95.10	92.500	ppb	-2.7	<= 20
2,4-D	KC2000566-09	T	Average RF	94	83.643	ppb	-11.0	<= 20
2,4-DB	KC2000566-09	T	Average RF	94.70	95.240	ppb	0.6	<= 20
Dalapon	KC2000566-09	T	Average RF	91.10	95.982	ppb	5.4	<= 20
Dicamba	KC2000566-09	T	Average RF	94	96.106	ppb	2.2	<= 20
Dichlorprop	KC2000566-09	T	Average RF	94.40	85.597	ppb	-9.3	<= 20
Dinoseb	KC2000566-09	T	Average RF	94.50	94.362	ppb	-0.1	<= 20
MCPA	KC2000566-09	T	Linear	9346	10030.937	ppb	7.3	<= 20
MCPP	KC2000566-09	T	Linear	9386	10136.279	ppb	8.0	<= 20

Calibration ID:	KC2000566	Instrument ID:	K-GC-24
Datafile ID:	J:\gc24\data\102120\10210012.D	Column Name:	RTX-CLP2

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
2,4,5-T	KC2000566-09	T	Average RF	94.80	98.209	ppb	3.6	<= 20
2,4,5-TP	KC2000566-09	T	Average RF	95.10	93.370	ppb	-1.8	<= 20
2,4-D	KC2000566-09	T	Average RF	94	90.423	ppb	-3.8	<= 20
2,4-DB	KC2000566-09	T	Average RF	94.70	93.935	ppb	-0.8	<= 20
Dalapon	KC2000566-09	T	Average RF	91.10	93.788	ppb	3.0	<= 20
Dicamba	KC2000566-09	T	Average RF	94	95.894	ppb	2.0	<= 20
Dichlorprop	KC2000566-09	T	Average RF	94.40	86.318	ppb	-8.6	<= 20
Dinoseb	KC2000566-09	T	Average RF	94.50	95.003	ppb	0.5	<= 20
MCPA	KC2000566-09	T	Average RF	9346	10069.096	ppb	7.7	<= 20
MCPP	KC2000566-09	T	Linear	9386	9672.717	ppb	3.1	<= 20

Initial Calibration - Detailed Report

Calibration ID: KC2000566	Instrument ID: K-GC-24
	Column Name: ZB-XLB-HT

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.400	10.9	16.3	02	23.510	25.3	7.5	03	70.500	67.7	-3.9
04	94.000	90.7	-3.5	05	117.540	113	-3.9	06	141.050	135	-4.5
07	164.560	158	-4.2	08	188.060	181	-3.8				

Dichlorprop

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.440	12.3	30.4	02	23.590	27.1	14.9	03	70.800	67.8	-4.3
04	94.400	89.1	-5.6	05	117.960	109	-7.3	06	141.550	129	-8.7
07	165.140	150	-9.4	08	188.730	170	-10.1				

Dinoseb

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.450	11.6	22.7	02	23.620	26.2	10.8	03	70.900	67.9	-4.2
04	94.500	89.9	-4.8	05	118.100	112	-5.4	06	141.720	133	-6.0
07	165.340	155	-6.5	08	188.960	177	-6.5				

MCPA

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	934.770	750	-19.7	02	2336.600	2720	16.4	03	7010.000	7350	4.9
04	9346.000	9600	2.7	05	11683.010	11800	1.1	06	14019.610	13900	-0.8
07	16356.210	16000	-2.0	08	18692.820	18200	-2.6				

MCPP

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	938.770	689	-26.6	02	2346.620	2840	21.2	03	7040.000	7570	7.5
04	9386.000	9780	4.2	05	11733.100	11900	1.6	06	14079.720	13900	-1.3
07	16426.340	16000	-2.8	08	18772.960	18100	-3.8				

2,4-Dichlorophenylacetic Acid

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.020	11.9	32.1	02	22.550	26.4	16.9	03	67.600	64.6	-4.5
04	90.200	84.3	-6.5	05	112.730	104	-8.0	06	135.280	122	-9.7
07	157.830	142	-9.8	08	180.370	161	-10.5				

Data File : J:\gc24\data\102120\10210003.D Vial: 1
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 21 Oct 2020 1:22 pm Operator: UA
 Sample : IB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Oct 21 17:46:26 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	8.009	7.829	7280	43923	0.400	1.038 #
Target Compounds						
1) m Dalapon	3.136	2.865	9965	74917	0.411	1.551 #
3) m Dicamba	8.209	7.905	29172	27129	0.418	0.183 #
4) m MCPP	0.000	8.082	0	2122	N.D.	N.D.
5) m MCPA	8.552	8.362	2704	44075	46.181	N.D. #
6) m Dichloroprop	8.939	8.758	23826	6916	1.278	0.166 #
7) m 2,4-D	9.349	0.000	6880	0	0.324	N.D. d#
8) m 2,4,5-TP ...	10.259	10.129	9196	34595	0.098	0.170 #
9) m 2,4,5-T	10.709	10.539	13577	43959	0.165	0.230 #
10) m 2,4-DB	0.000	11.139	0	3230	N.D. d	0.111
11) m Dinoseb	11.682	11.315	11024	25541	0.178	0.187

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

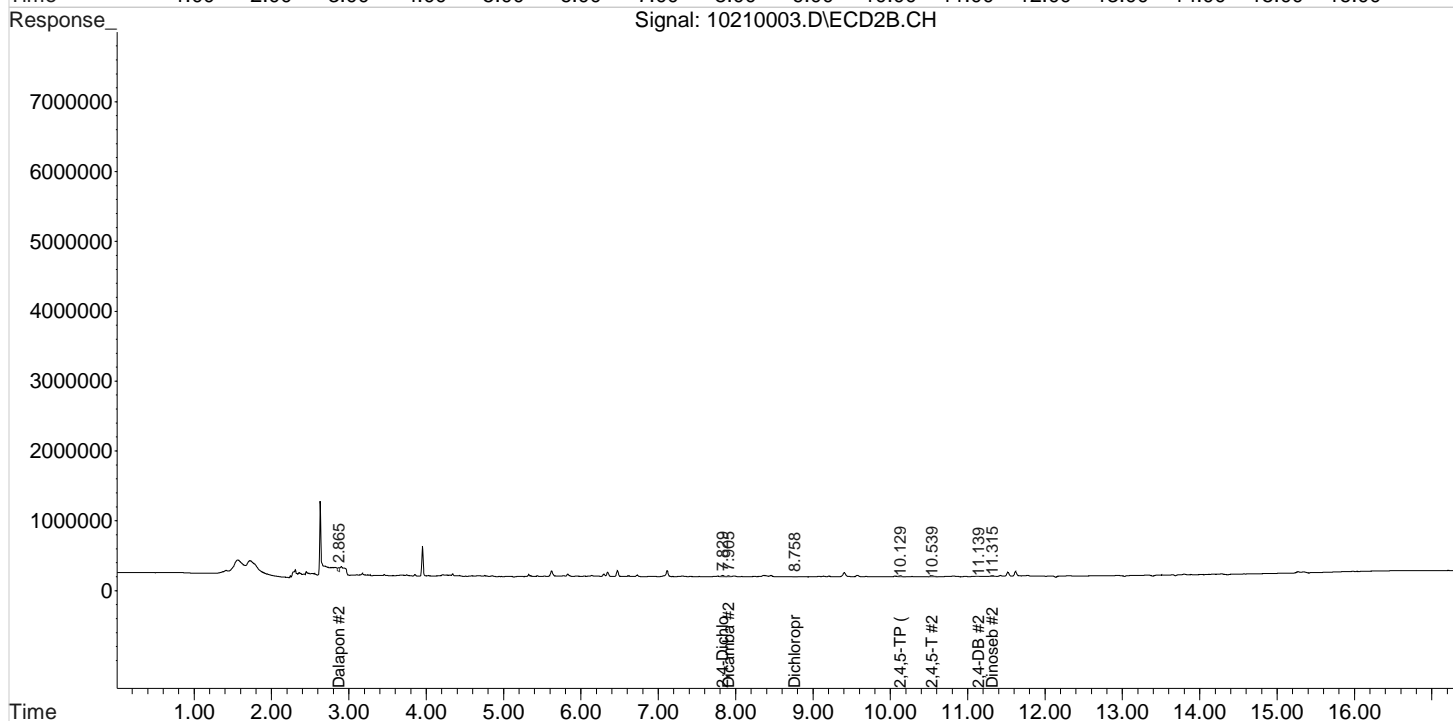
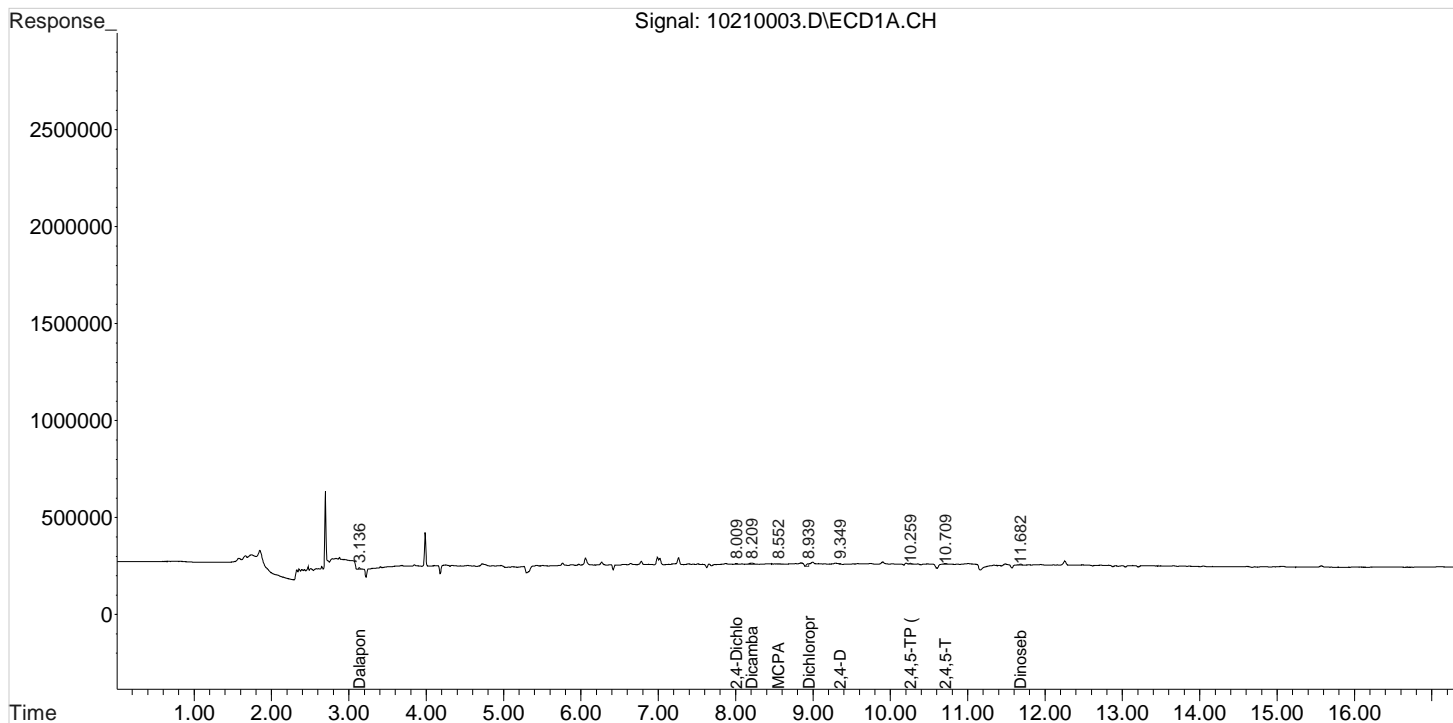
Data File : J:\gc24\data\102120\10210003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:22 pm
Sample : IB
Misc :

Vial: 1
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:46:26 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\102120\10210004.D Vial: 3
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 21 Oct 2020 1:46 pm Operator: UA
 Sample : PENTA2-14K 10PPB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Oct 21 17:30:40 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:28:50 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.997	7.820	190814	503954	10.736	12.487
Target Compounds						
1) m Dalapon	3.127	2.873	243340	465074	10.178	9.705
3) m Dicamba	8.217	7.920	714045	1620262	10.361m	11.193
4) m MCPP	8.300	8.106	18782	304912	432.162	1713.825 #
5) m MCPA	8.567	8.353	42691	497459	706.888	2049.337 #
6) m Dichloroprop	8.967	8.753	214760	513503	11.890	12.869
7) m 2,4-D	9.330	9.066	233900	657519	11.289	13.552
8) m 2,4,5-TP ...	10.263	10.130	927413	2242551	9.958m	11.308
9) m 2,4,5-T	10.710	10.536	823973	2124220	10.063	11.378
10) m 2,4-DB	11.290	11.173	105152	338252	10.371m	12.055
11) m Dinoseb	11.683	11.316	655169	1585317	10.776m	11.980

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

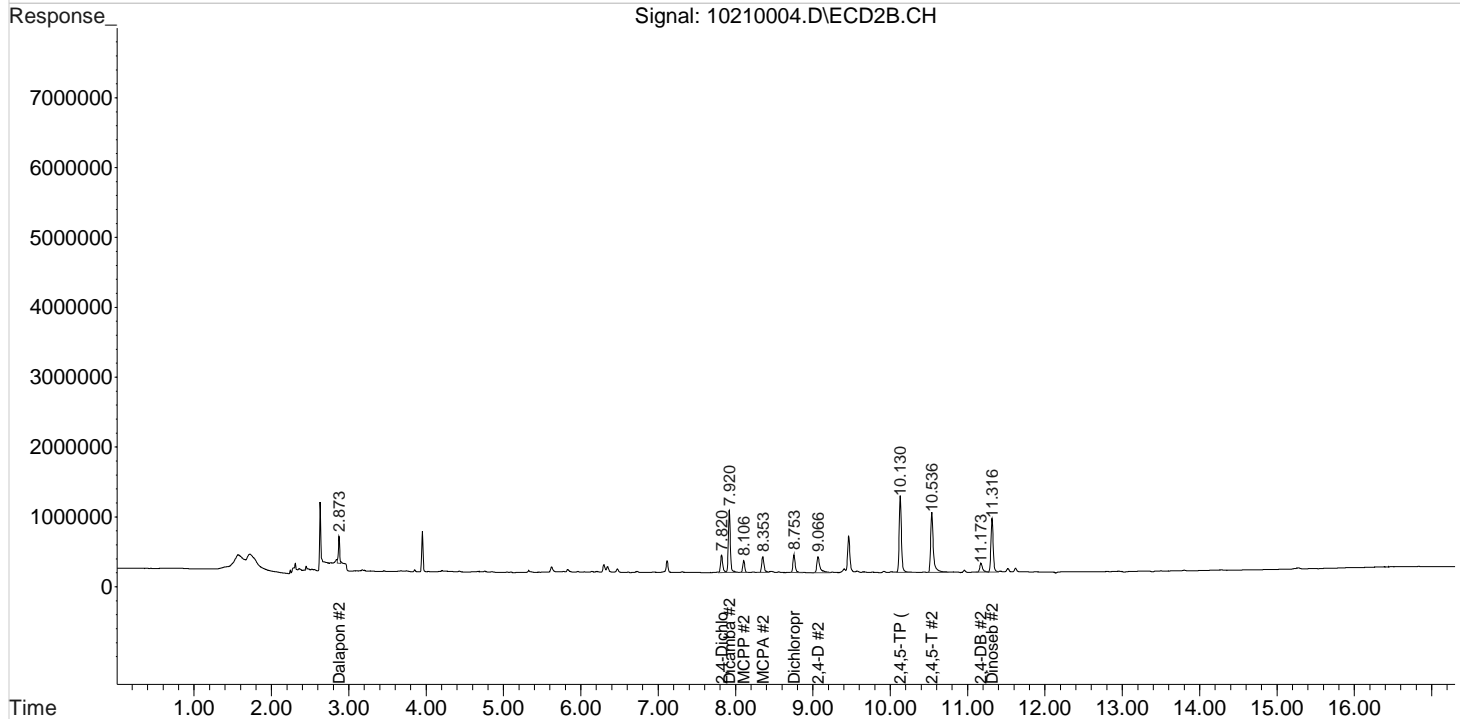
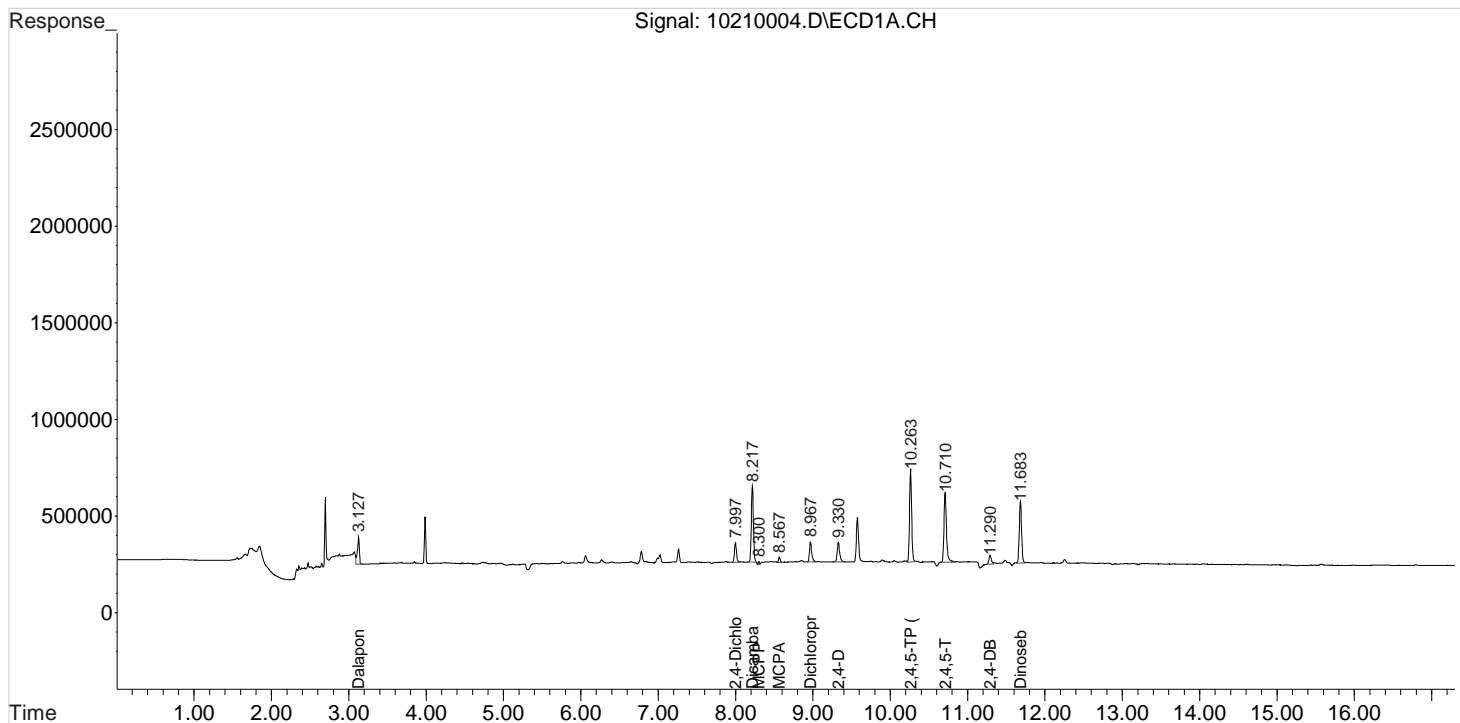
Data File : J:\gc24\data\102120\10210004.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm
Sample : PENTA2-14K 10PPB
Misc :

Vial: 3
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:30:40 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

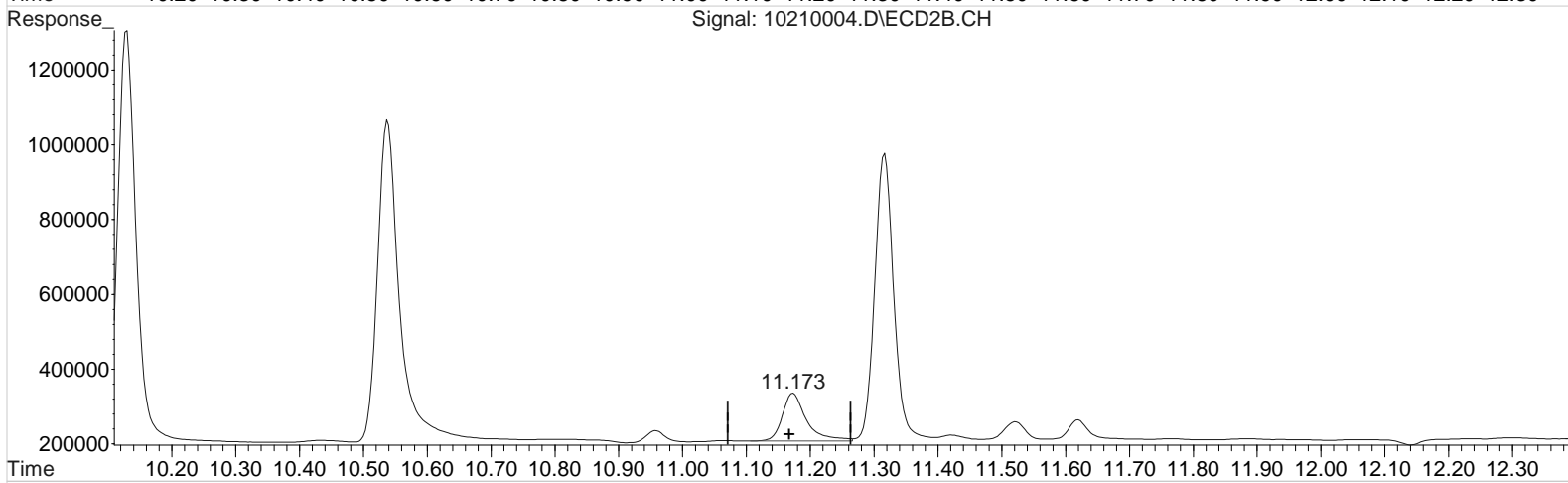
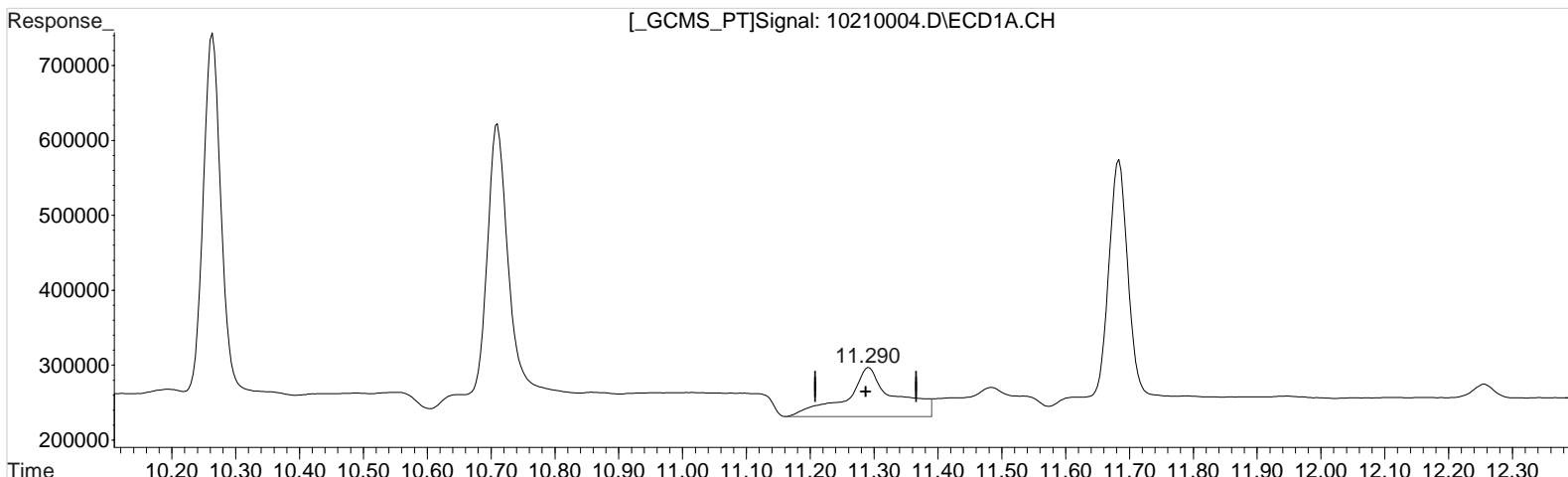
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\102120\10210004.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm Operator: UA
Sample : PENTA2-14K 10PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:29:14 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(10) 2,4-DB (m)
11.290min 34.659 ppb
response 351402

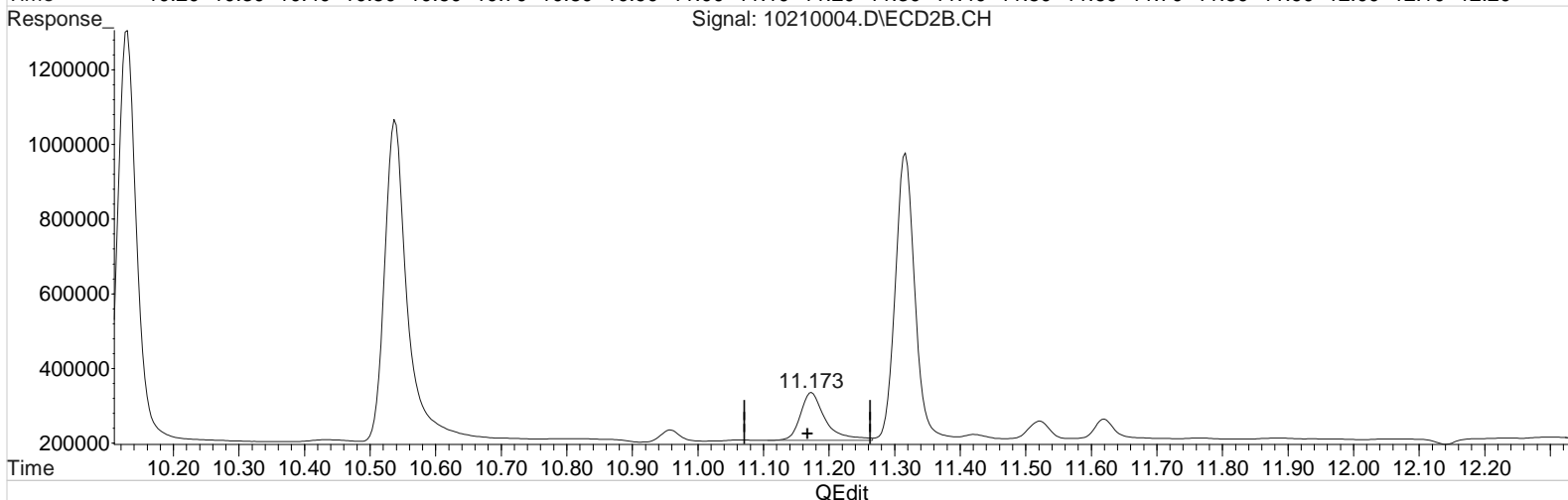
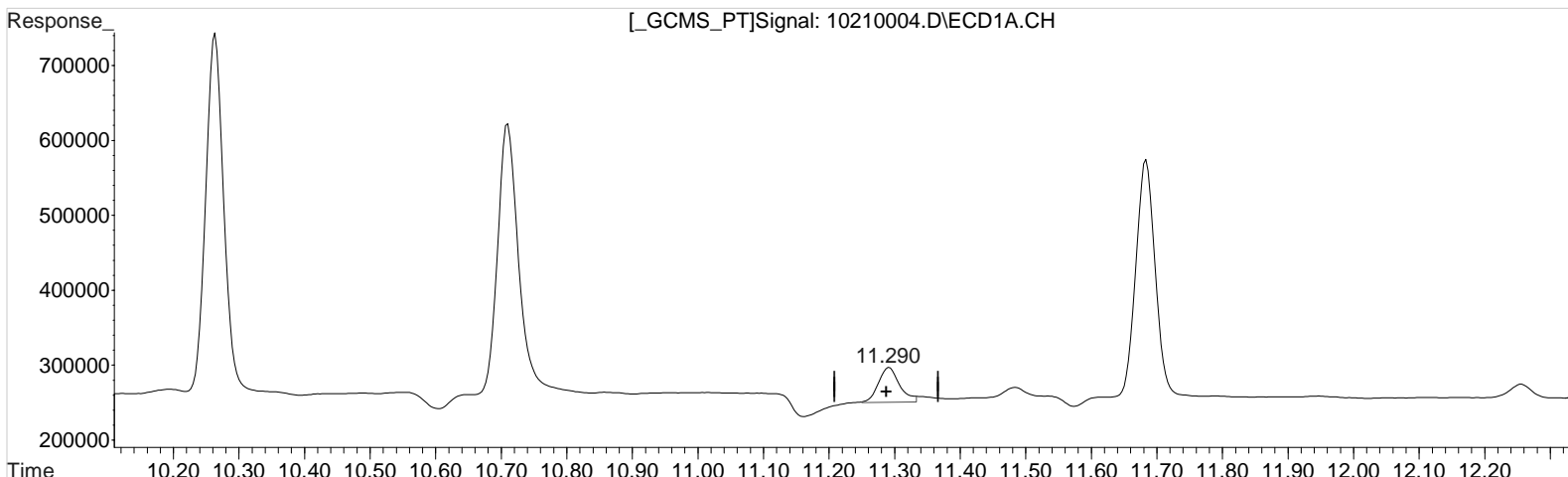
Manual Integration:
Before
10/21/20

(10) 2,4-DB #2 (m)
11.173min 12.055 ppb
response 338252

Data File : J:\gc24\data\102120\10210004.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm Operator: UA
Sample : PENTA2-14K 10PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:29:14 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(10) 2,4-DB (m)
11.290min 10.371 ppb m
response 105152

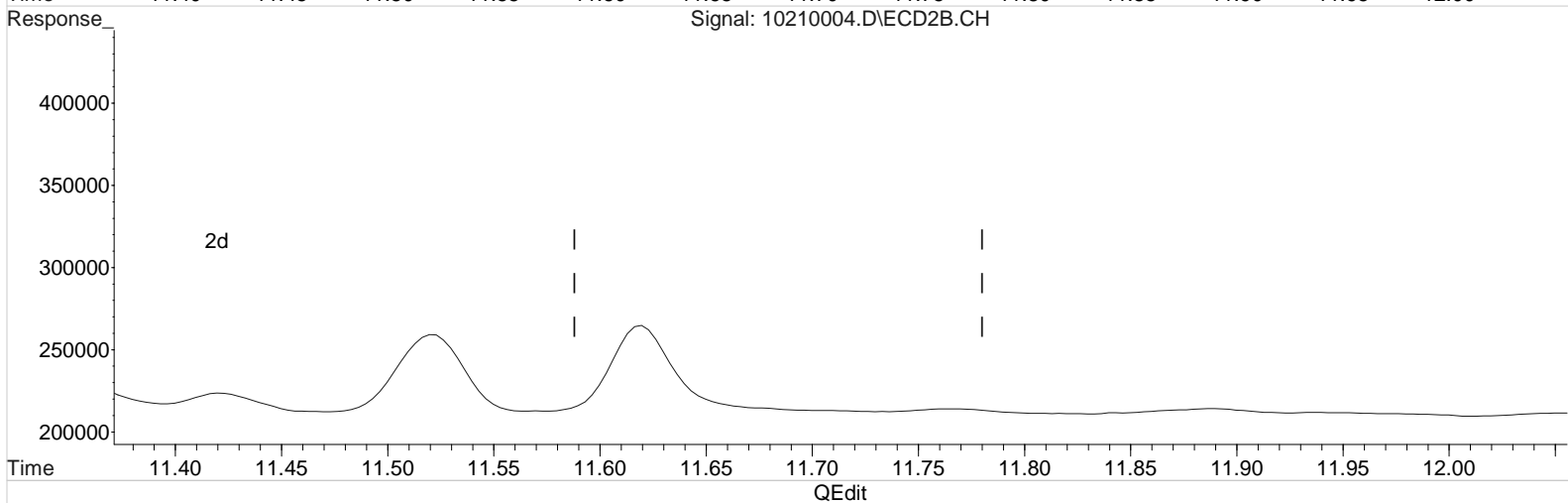
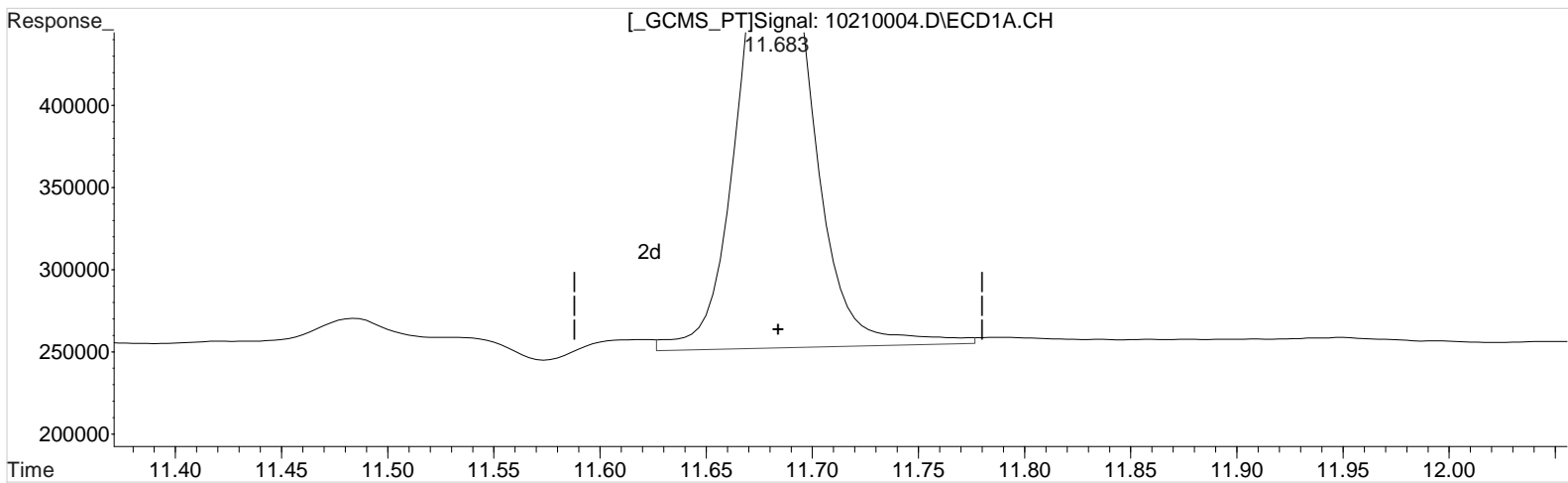
(10) 2,4-DB #2 (m)
11.173min 12.055 ppb
response 338252

Manual Integration:
After
Baseline/Shoulder
10/21/20

Data File : J:\gc24\data\102120\10210004.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm Operator: UA
Sample : PENTA2-14K 10PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:29:14 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(11) Dinoseb (m)
11.683min 11.414 ppb
response 693954

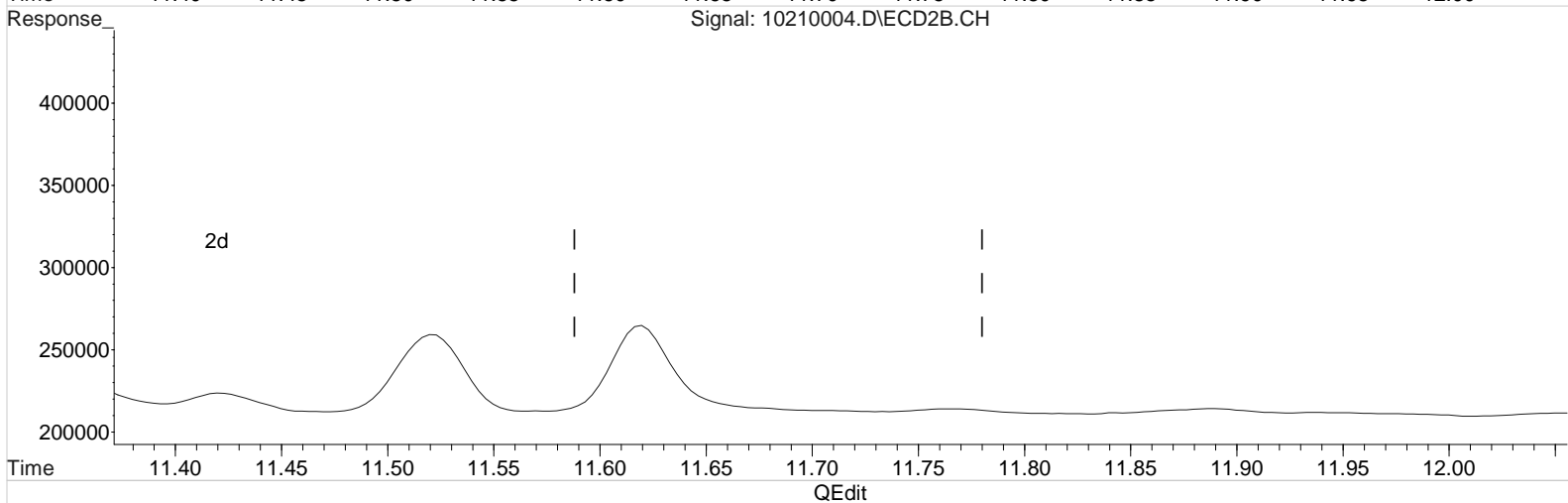
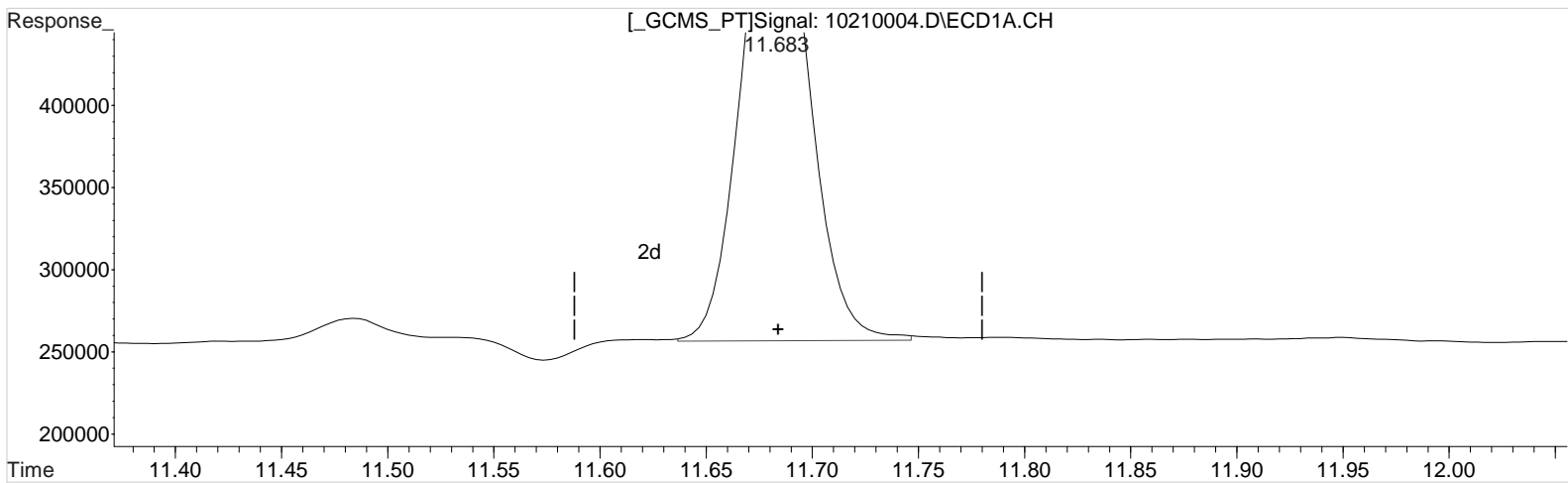
Manual Integration:
Before
10/21/20

(11) Dinoseb #2 (m)
11.316min 11.980 ppb
response 1585317

Data File : J:\gc24\data\102120\10210004.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm Operator: UA
Sample : PENTA2-14K 10PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:29:14 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(11) Dinoseb (m)
11.683min 10.776 ppb m
response 655169

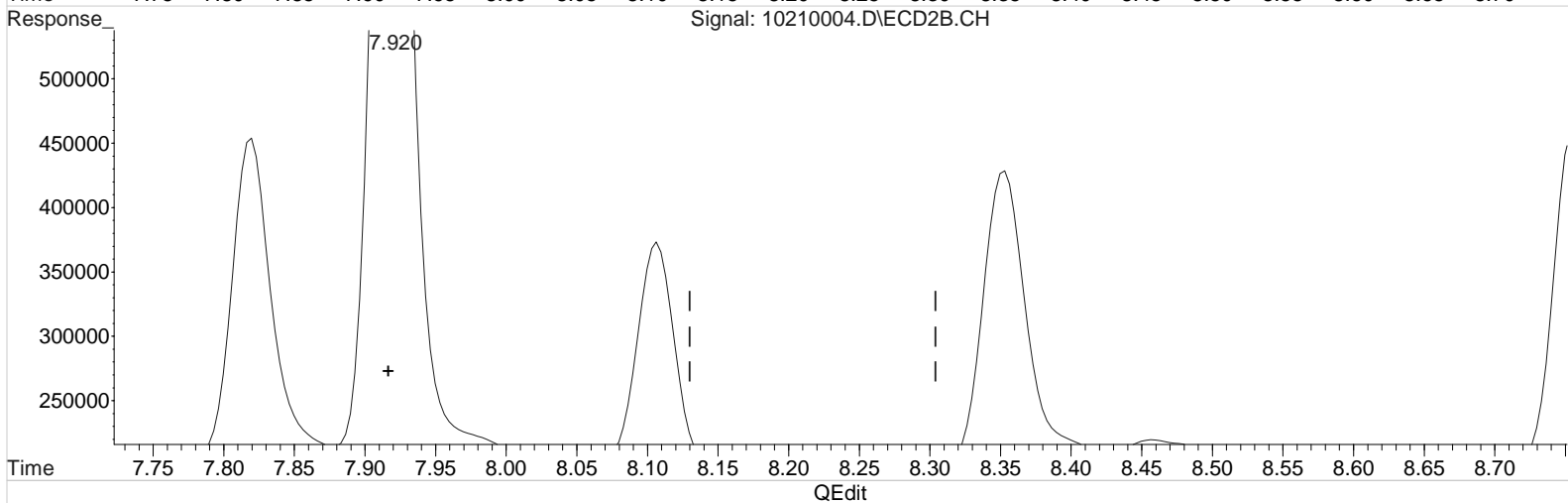
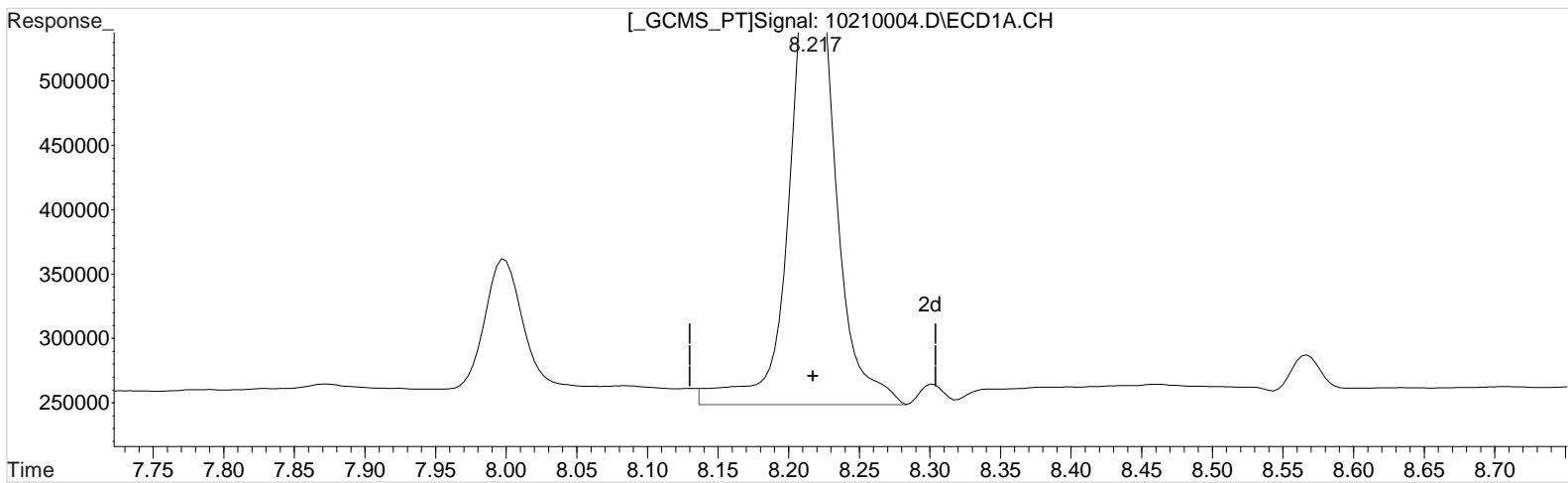
Manual Integration:
After
Baseline/Shoulder
10/21/20

(11) Dinoseb #2 (m)
11.316min 11.980 ppb
response 1585317

Data File : J:\gc24\data\102120\10210004.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm Operator: UA
Sample : PENTA2-14K 10PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:29:14 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(3) Dicamba (m)
8.217min 12.005 ppb
response 827399

Manual Integration:
Before
10/21/20

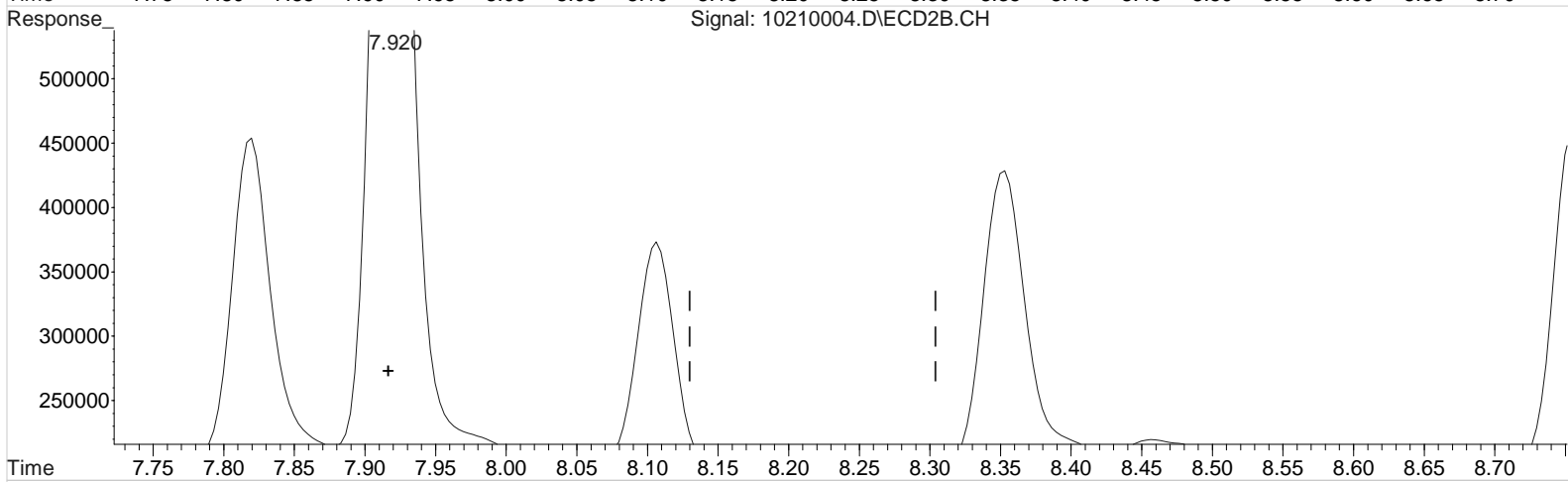
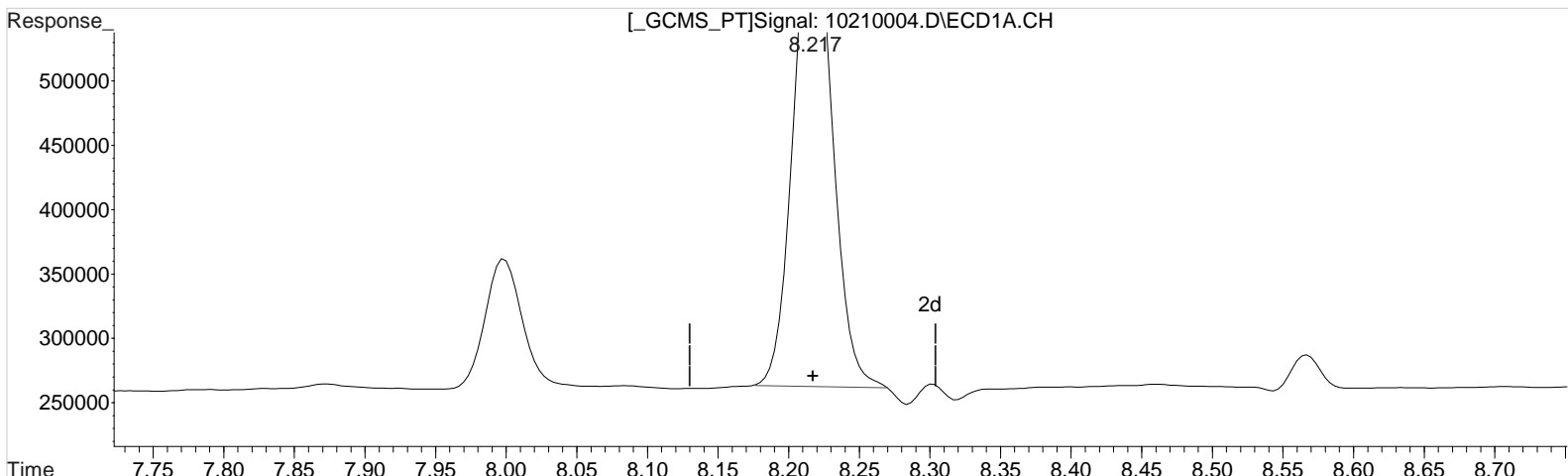
(3) Dicamba #2 (m)
7.920min 11.193 ppb
response 1620262

(+) = Expected Retention Time

Data File : J:\gc24\data\102120\10210004.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm Operator: UA
Sample : PENTA2-14K 10PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:29:14 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(3) Dicamba (m)
8.217min 10.361 ppb m
response 714045

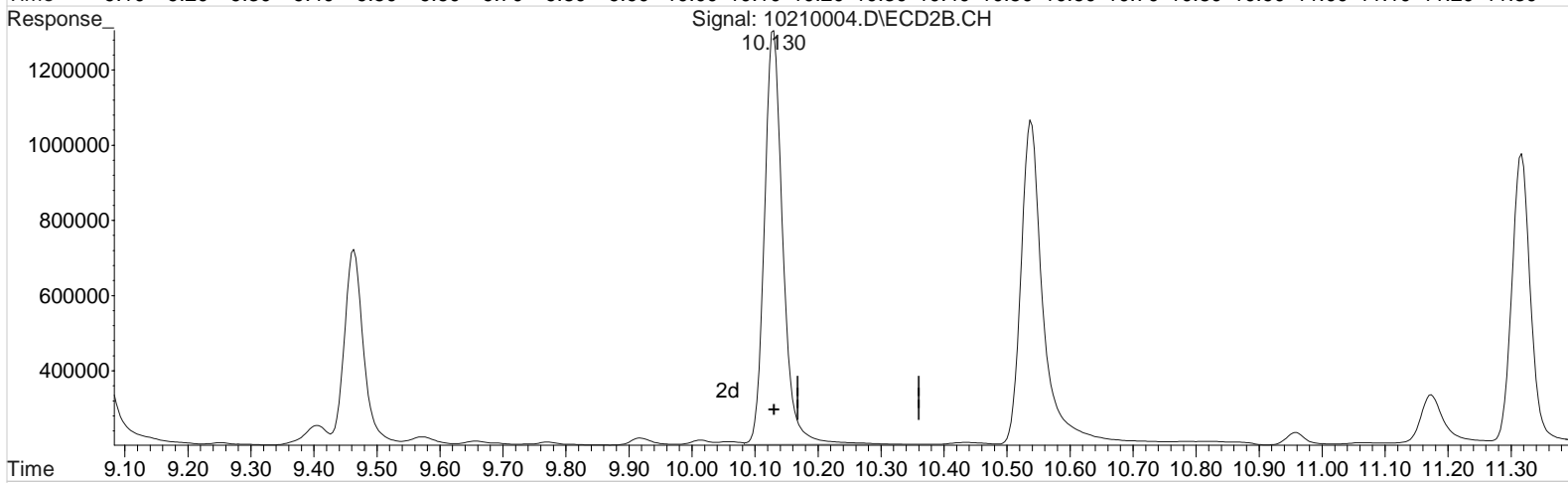
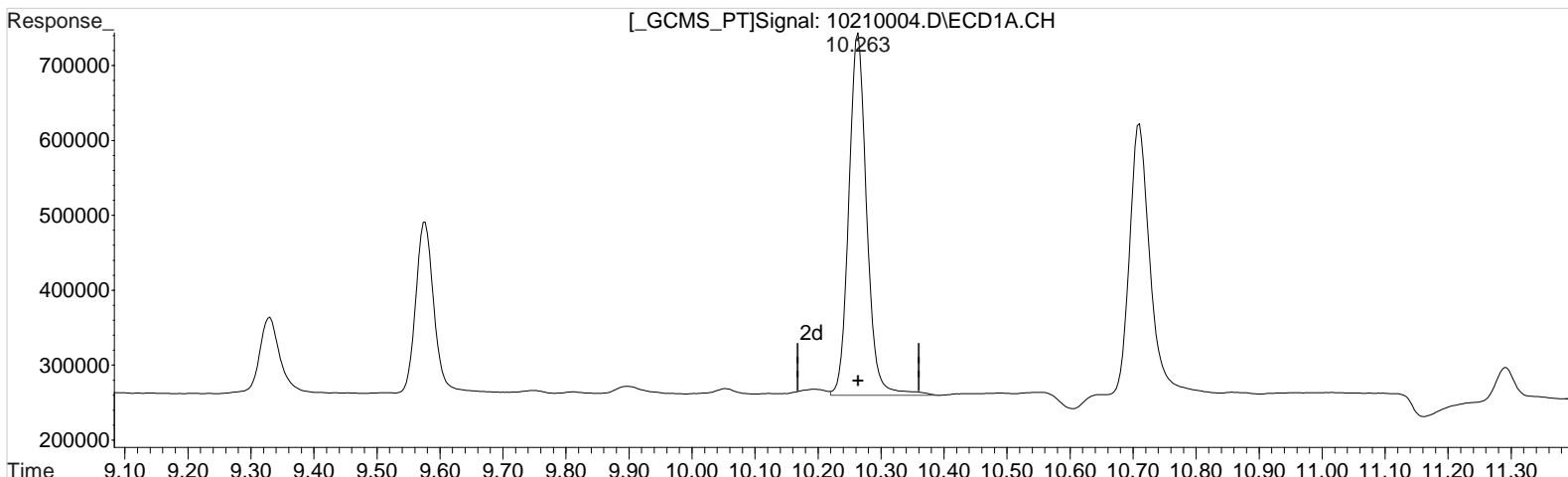
(3) Dicamba #2 (m)
7.920min 11.193 ppb
response 1620262

Manual Integration:
After
Baseline/Shoulder
10/21/20

Data File : J:\gc24\data\102120\10210004.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm Operator: UA
Sample : PENTA2-14K 10PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:29:14 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(8) 2,4,5-TP (Silvex) (m)

10.263min 10.244 ppb

response 954083

Manual Integration:

Before

10/21/20

(8) 2,4,5-TP (Silvex) #2 (m)

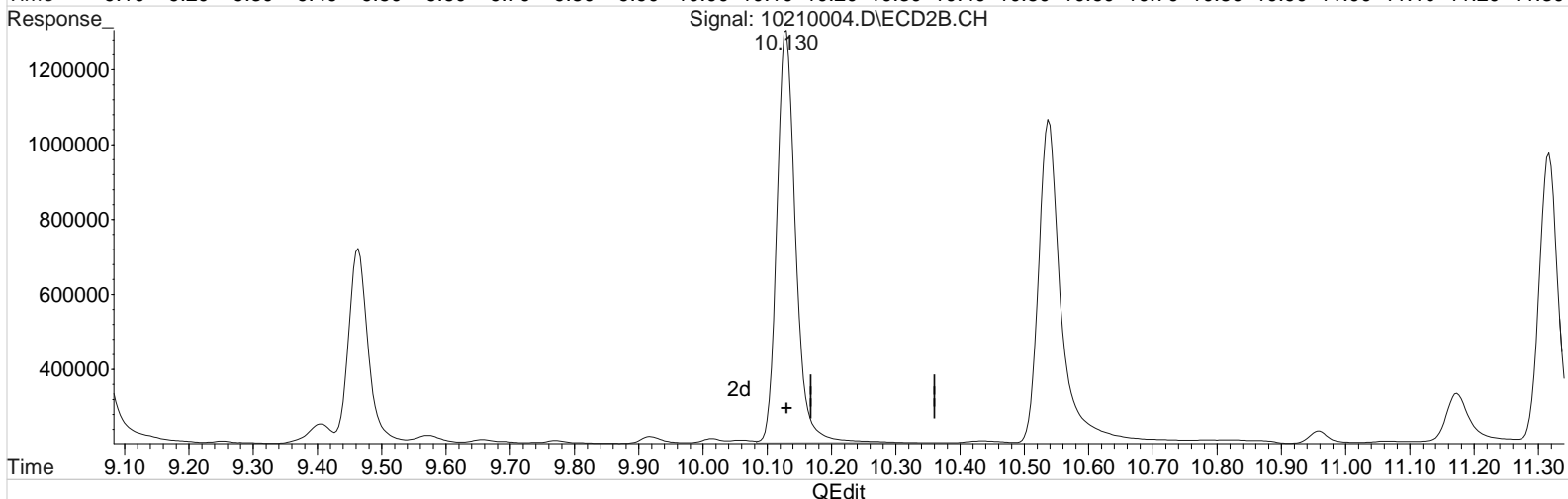
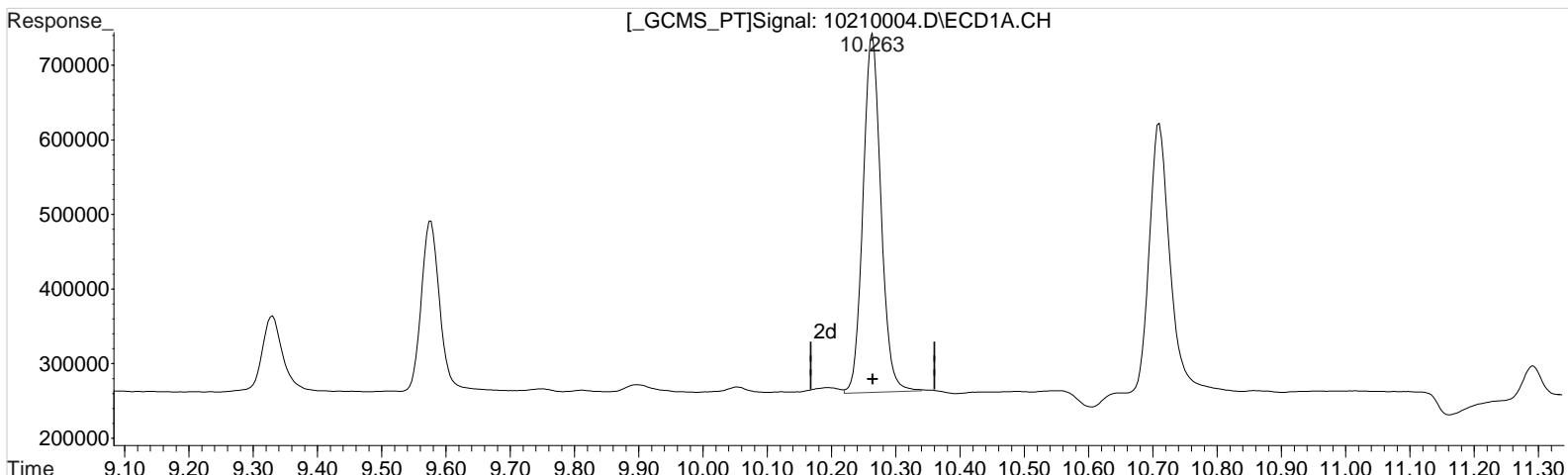
10.130min 11.308 ppb

response 2242551

Data File : J:\gc24\data\102120\10210004.D Vial: 3
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 21 Oct 2020 1:46 pm Operator: UA
 Sample : PENTA2-14K 10PPB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Oct 21 17:29:14 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:28:50 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(8) 2,4,5-TP (Silvex) (m)
 10.263min 9.958 ppb m
 response 927413

Manual Integration:
 After
 Baseline/Shoulder
 10/21/20

(8) 2,4,5-TP (Silvex) #2 (m)
 10.130min 11.308 ppb
 response 2242551

Data File : J:\gc24\data\102120\10210005.D Vial: 4
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 21 Oct 2020 2:09 pm Operator: UA
 Sample : PENTA2-14L 25PPB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Oct 21 17:28:28 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:26:33 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds							
2) s	2,4-Dichl...	7.994	7.817	454333	1114582	26.144	28.691
Target Compounds							
1) m	Dalapon	3.128	2.874	622375	1185641	26.669m	25.104m
3) m	Dicamba	8.214	7.917	1772679	3745342	26.131m	26.313
4) m	MCPD	8.301	8.104	87770	616897	1973.683	3767.293 #
5) m	MCPA	8.564	8.351	142776	870257	2368.770	3935.605 #
6) m	Dichloroprop	8.968	8.751	499436	1130772	28.469	29.321
7) m	2,4-D	9.324	9.064	558866	1393959	27.651	29.833
8) m	2,4,5-TP ...	10.264	10.127	2326151	5175294	25.192	26.532
9) m	2,4,5-T	10.708	10.534	2067316	4914810	25.526m	26.821
10) m	2,4-DB	11.288	11.167	277452	763407	28.096m	27.903
11) m	Dinoseb	11.684	11.314	1575526	3578948	26.340	27.716

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

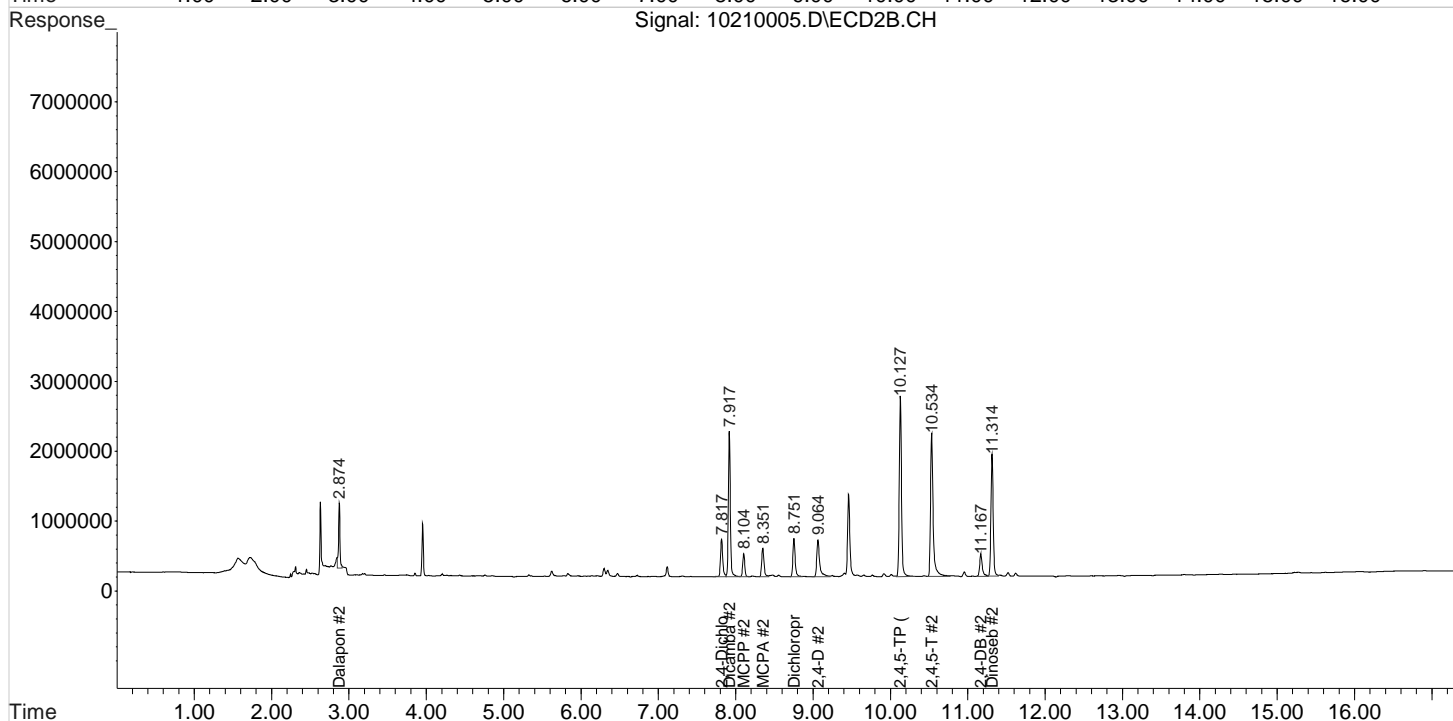
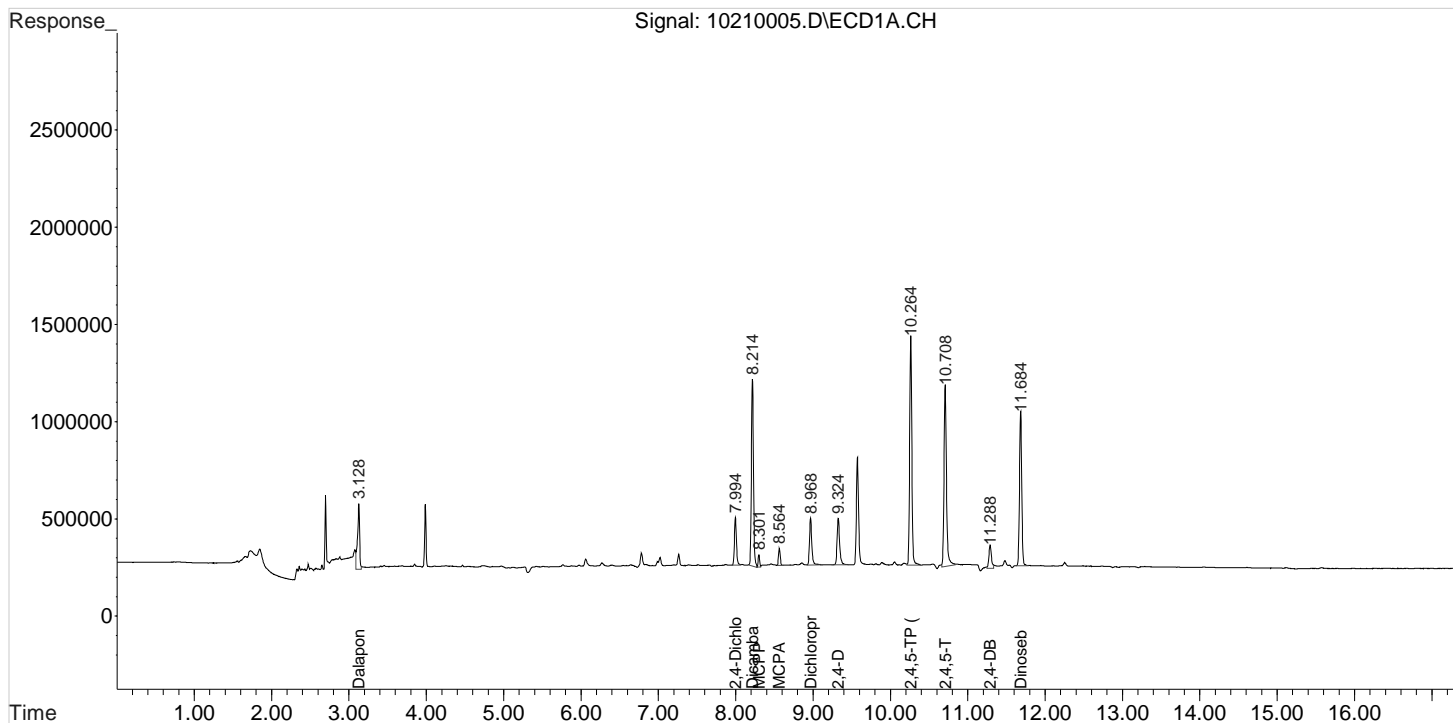
Data File : J:\gc24\data\102120\10210005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm
Sample : PENTA2-14L 25PPB
Misc :

Vial: 4
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:28:28 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

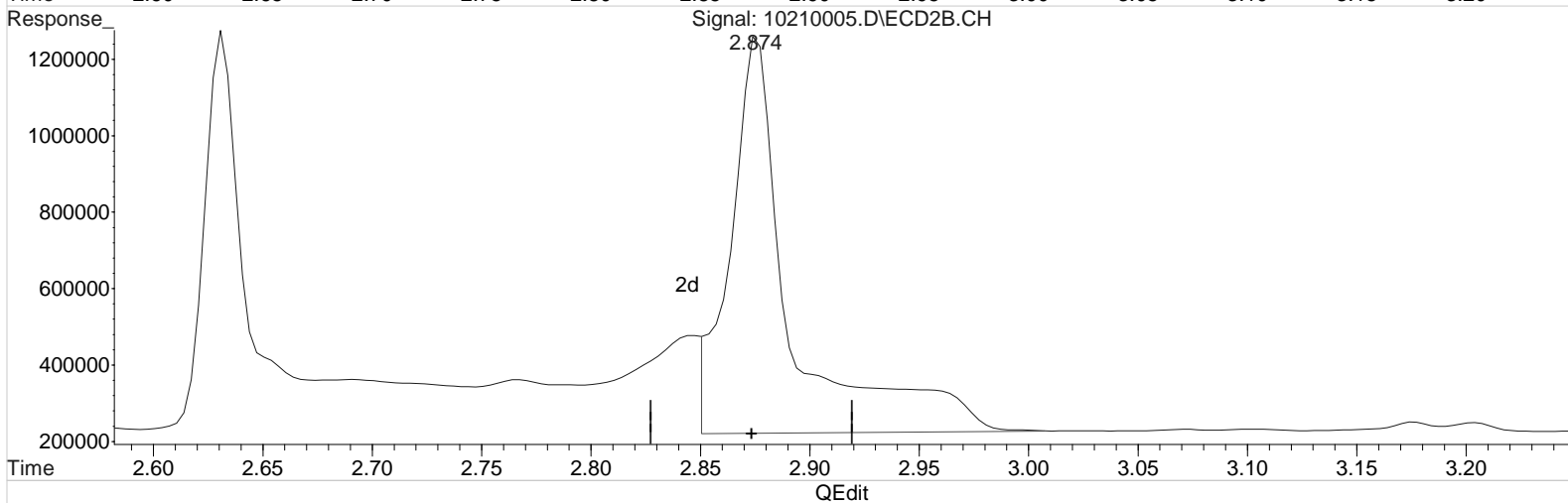
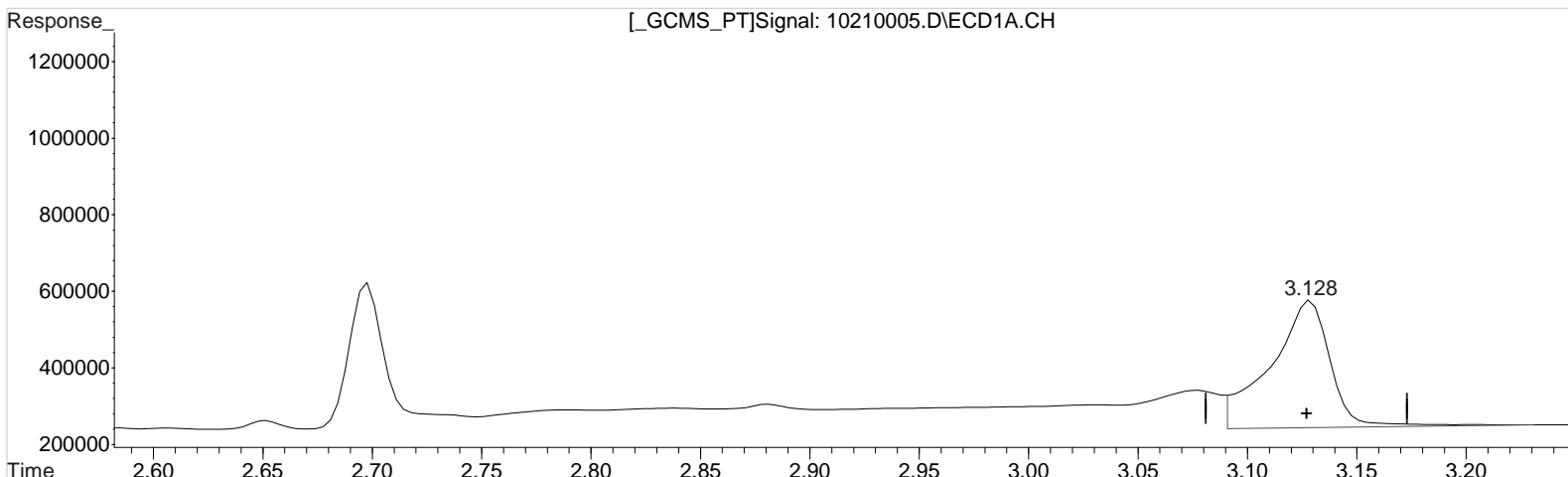
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2
Signal #1 Info : 0.25 mm
Signal #2 Phase: ZB-XLB-HT
Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\102120\10210005.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm Operator: UA
Sample : PENTA2-14L 25PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:26:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.128min 26.760 ppb
response 624496

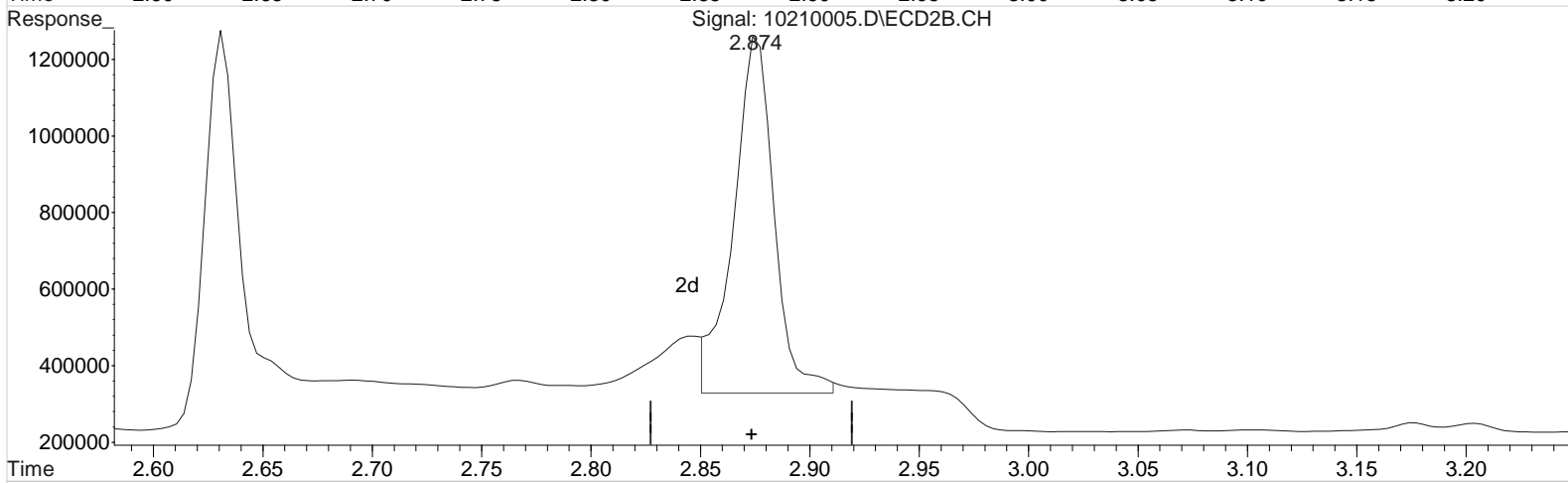
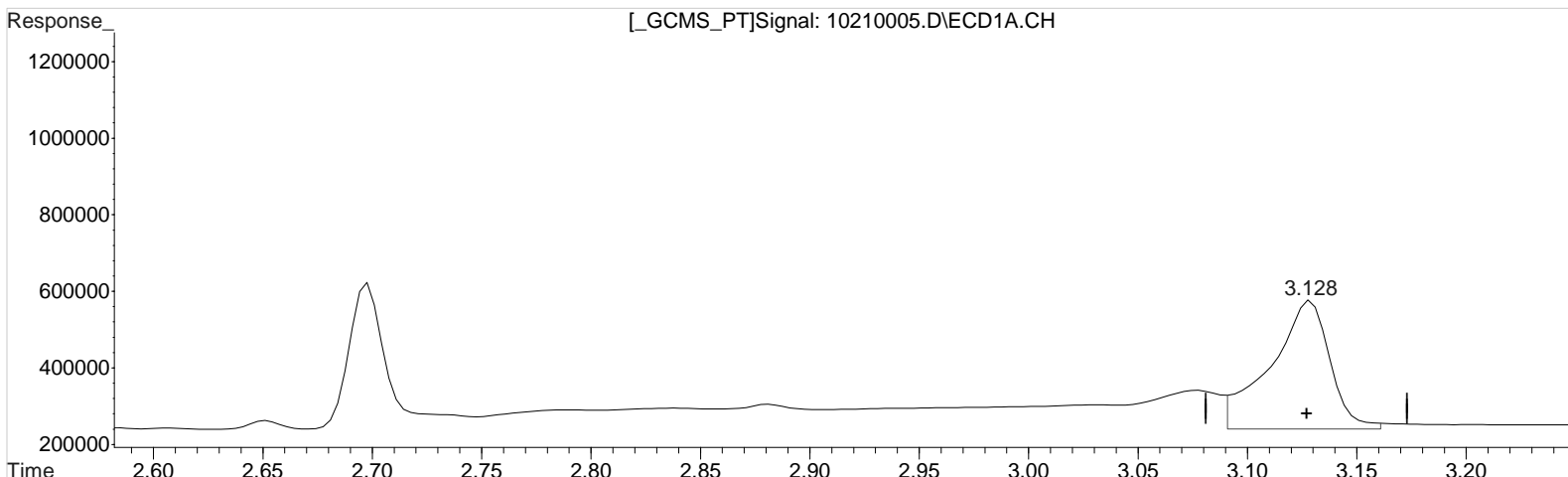
Manual Integration:
Before
10/21/20

(1) Dalapon #2 (m)
2.874min 42.153 ppb
response 1990871

Data File : J:\gc24\data\102120\10210005.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm Operator: UA
Sample : PENTA2-14L 25PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:26:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.128min 26.669 ppb m
response 622375

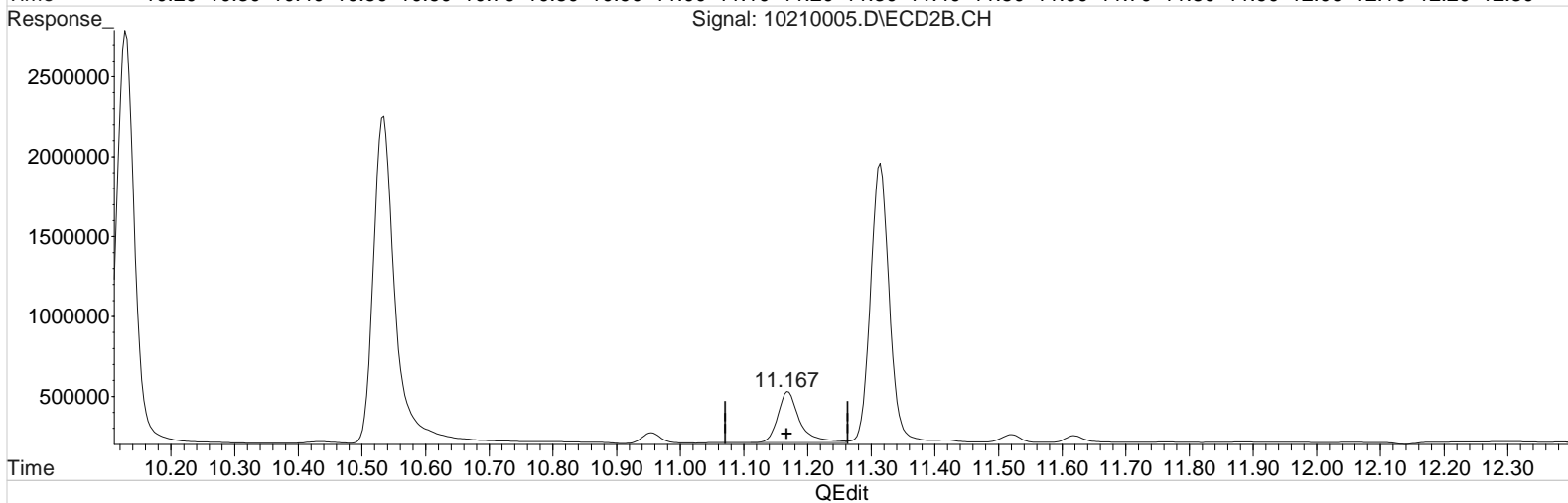
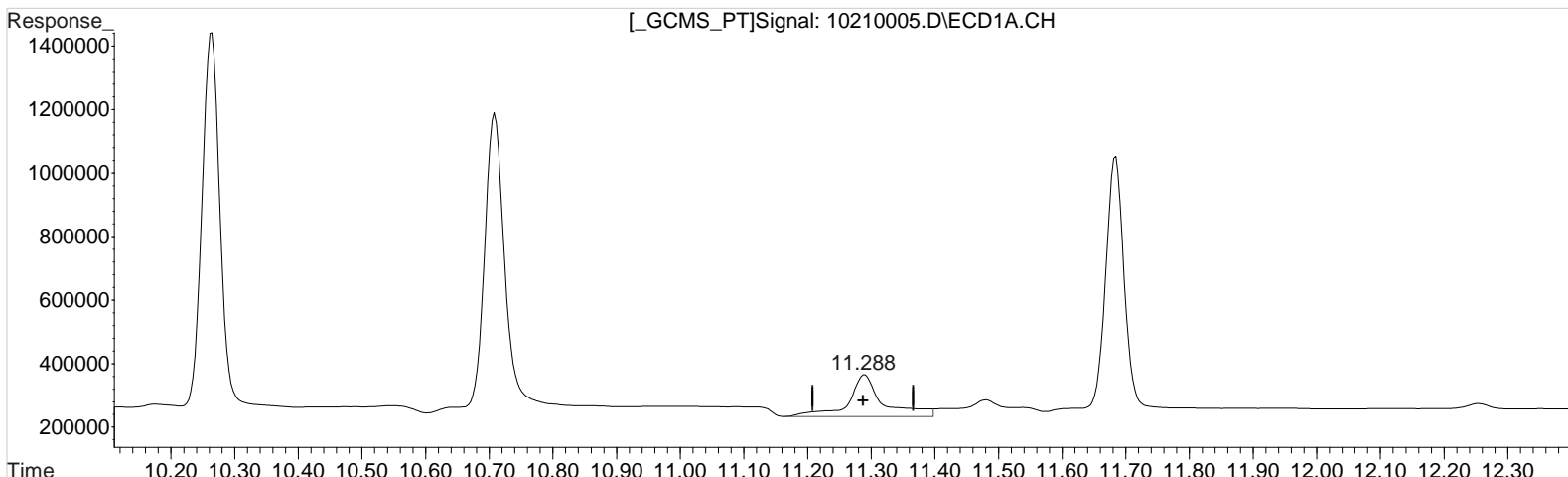
Manual Integration:
After
Baseline/Shoulder
10/21/20

(1) Dalapon #2 (m)
2.874min 25.104 ppb m
response 1185641

Data File : J:\gc24\data\102120\10210005.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm Operator: UA
Sample : PENTA2-14L 25PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:26:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(10) 2,4-DB (m)
11.288min 50.935 ppb
response 502979

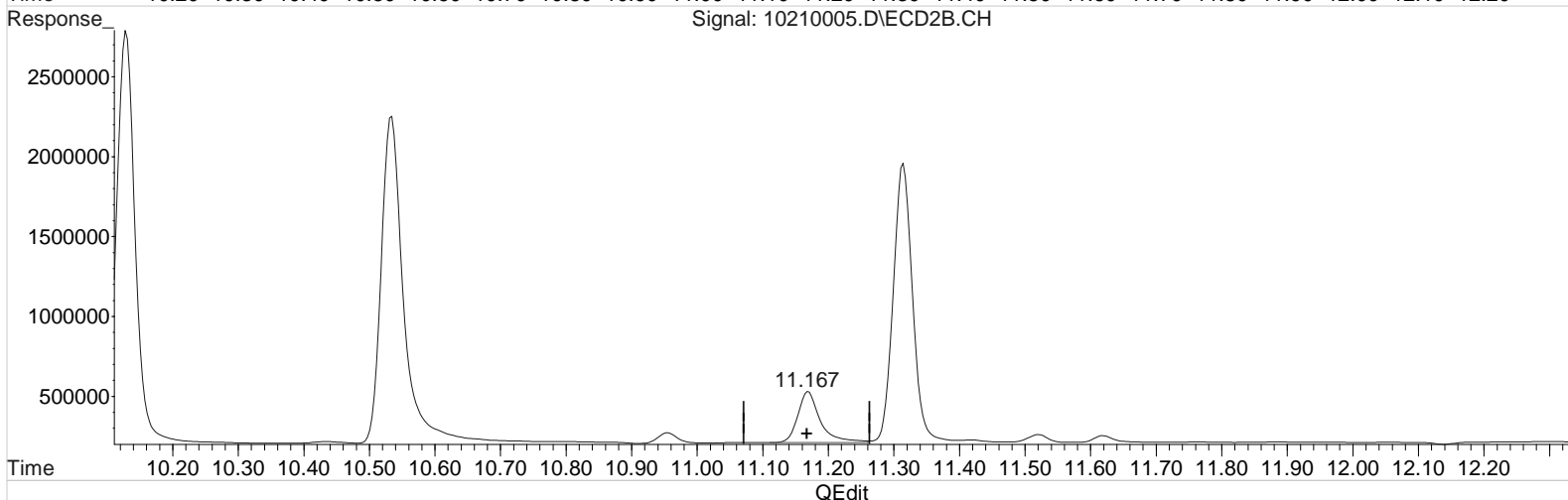
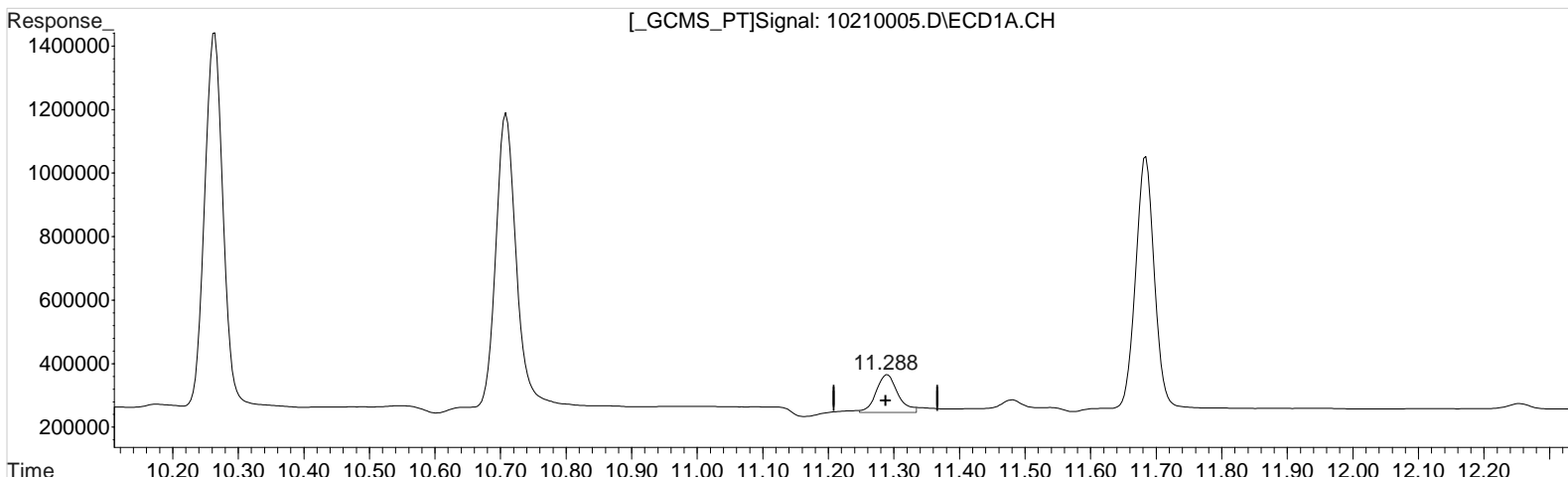
Manual Integration:
Before
10/21/20

(10) 2,4-DB #2 (m)
11.167min 27.903 ppb
response 763407

Data File : J:\gc24\data\102120\10210005.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm Operator: UA
Sample : PENTA2-14L 25PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:26:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(10) 2,4-DB (m)
11.288min 28.096 ppb m
response 277452

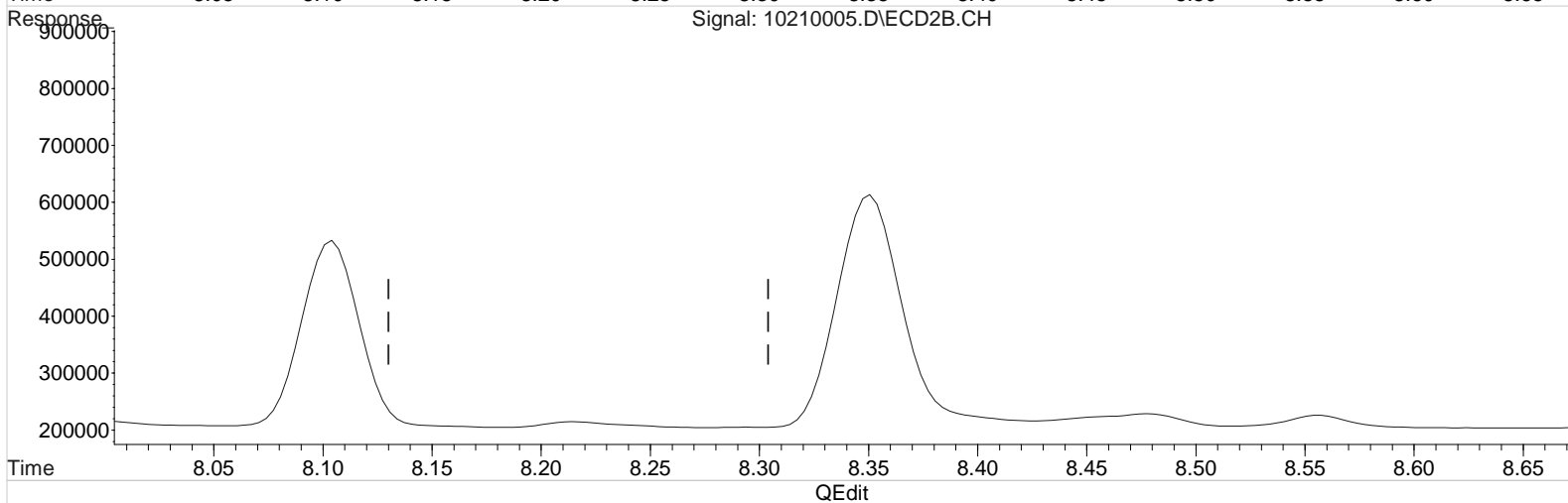
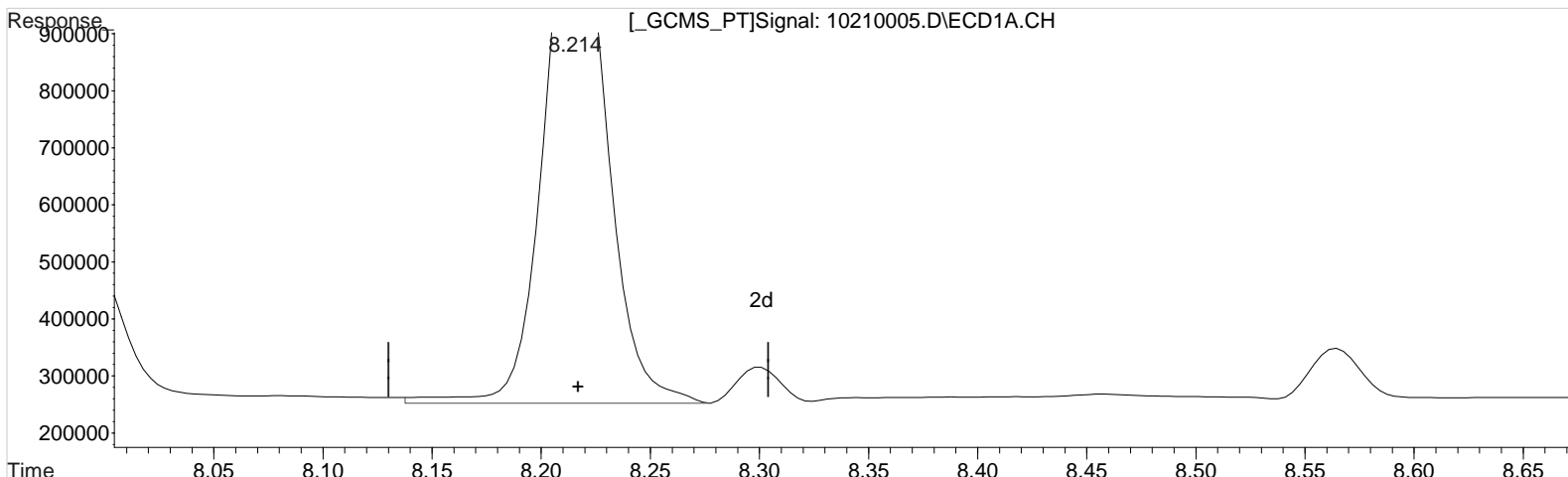
Manual Integration:
After
Baseline/Shoulder
10/21/20

(10) 2,4-DB #2 (m)
11.167min 27.903 ppb
response 763407

Data File : J:\gc24\data\102120\10210005.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm Operator: UA
Sample : PENTA2-14L 25PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:26:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(3) Dicamba (m)
8.214min 26.882 ppb
response 1823650

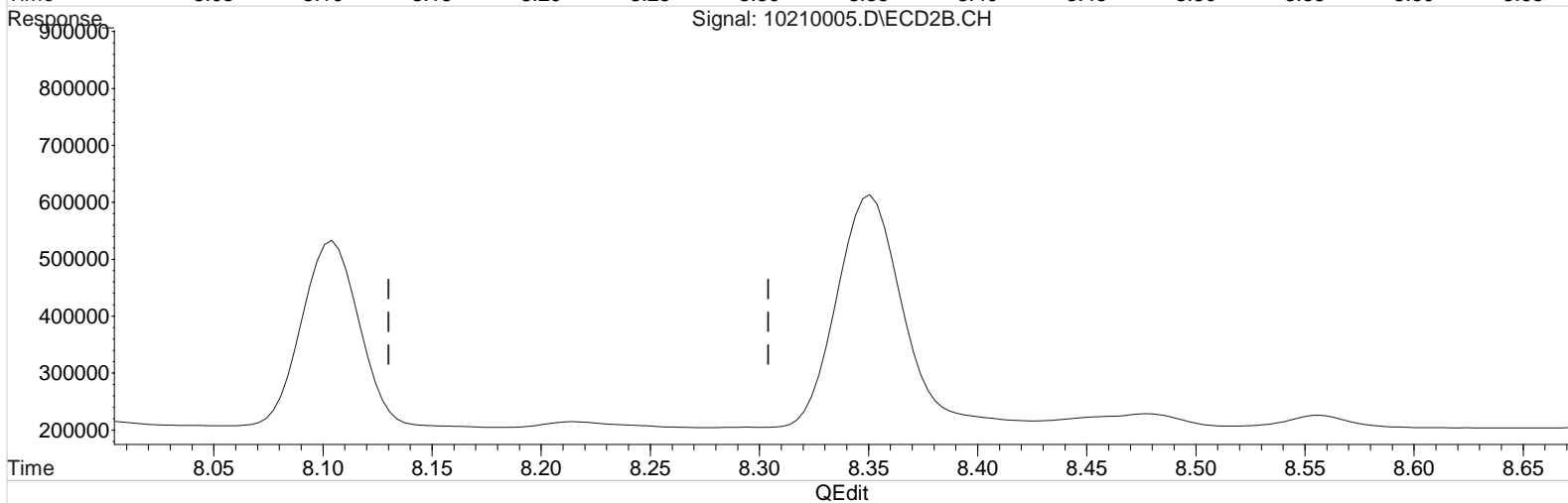
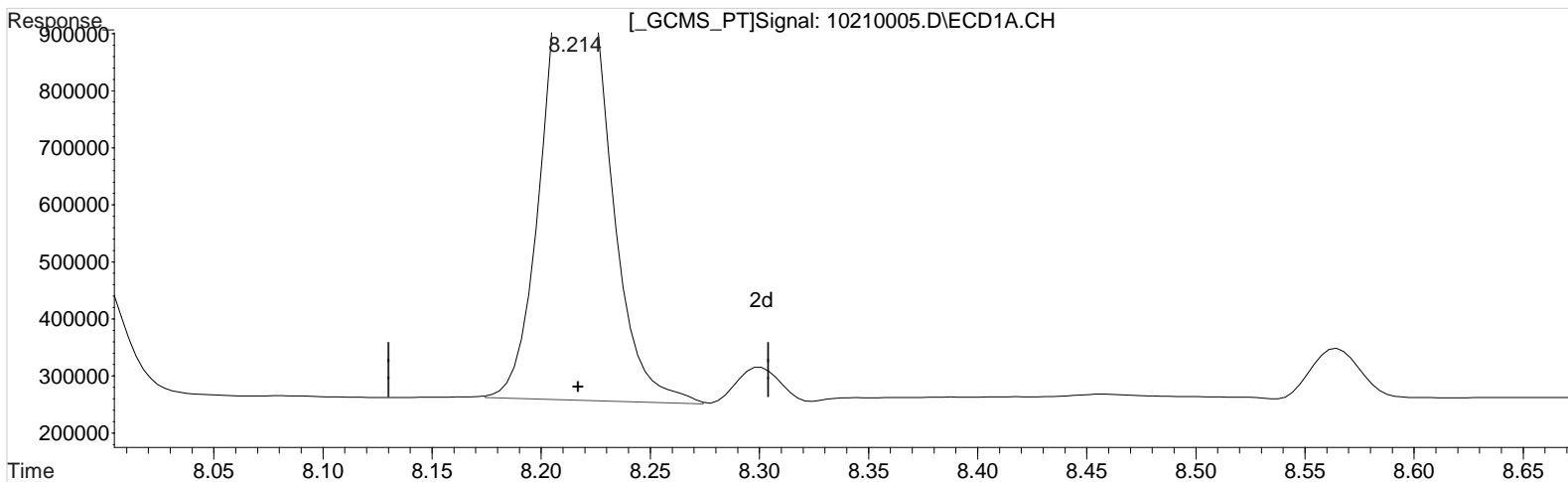
Manual Integration:
Before
10/21/20

(3) Dicamba #2 (m)
7.917min 26.313 ppb
response 3745342

Data File : J:\gc24\data\102120\10210005.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm Operator: UA
Sample : PENTA2-14L 25PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:26:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(3) Dicamba (m)
8.214min 26.131 ppb m
response 1772679

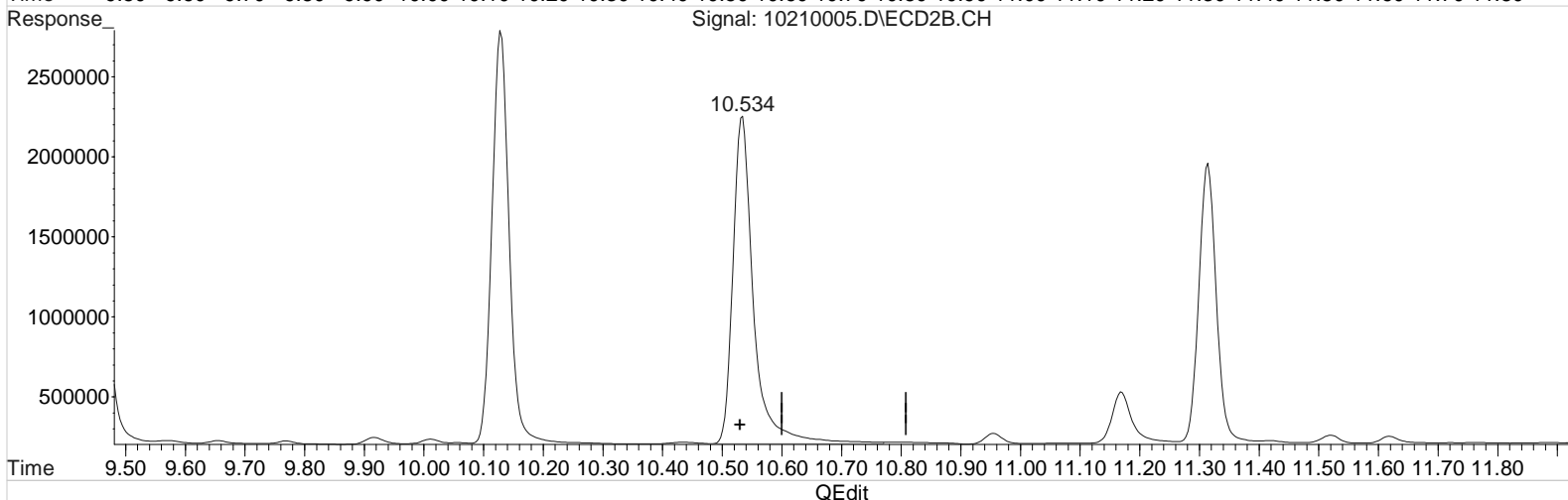
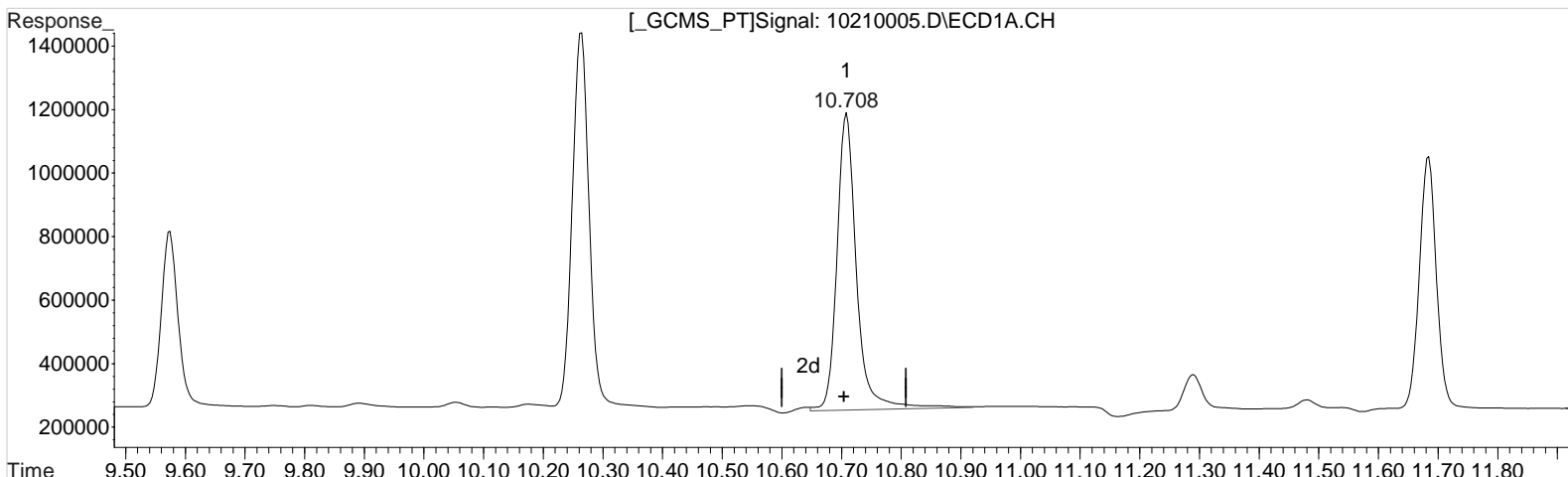
(3) Dicamba #2 (m)
7.917min 26.313 ppb
response 3745342

Manual Integration:
After
Baseline/Shoulder
10/21/20

Data File : J:\gc24\data\102120\10210005.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm Operator: UA
Sample : PENTA2-14L 25PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:26:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(9) 2,4,5-T (m)
10.708min 26.371 ppb
response 2135780

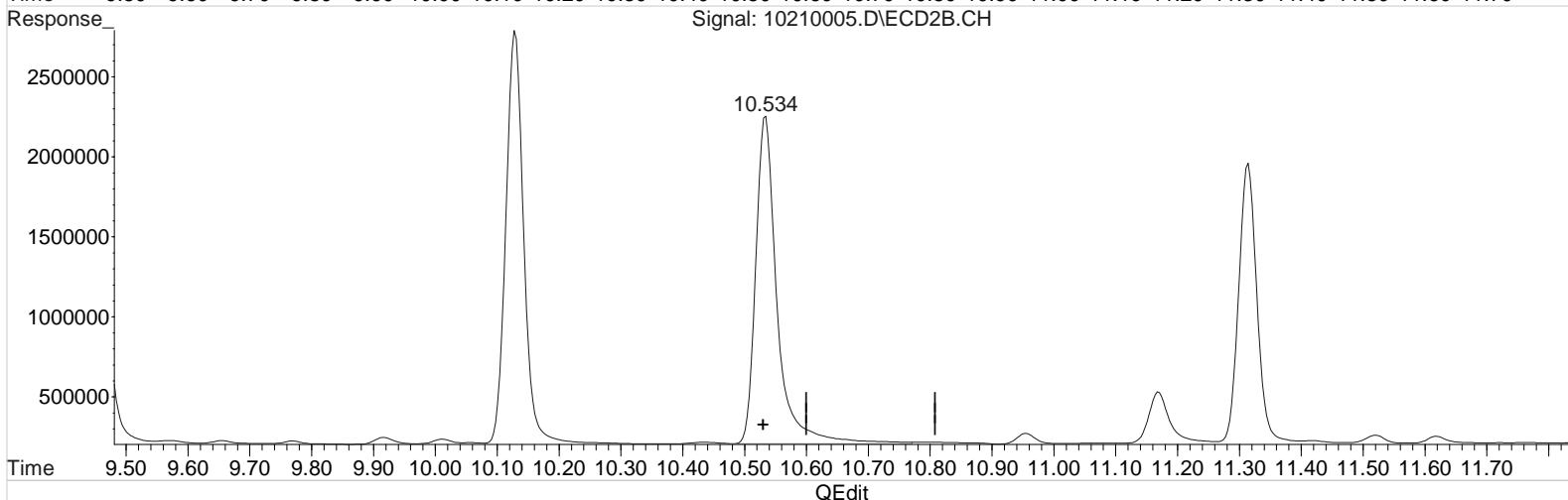
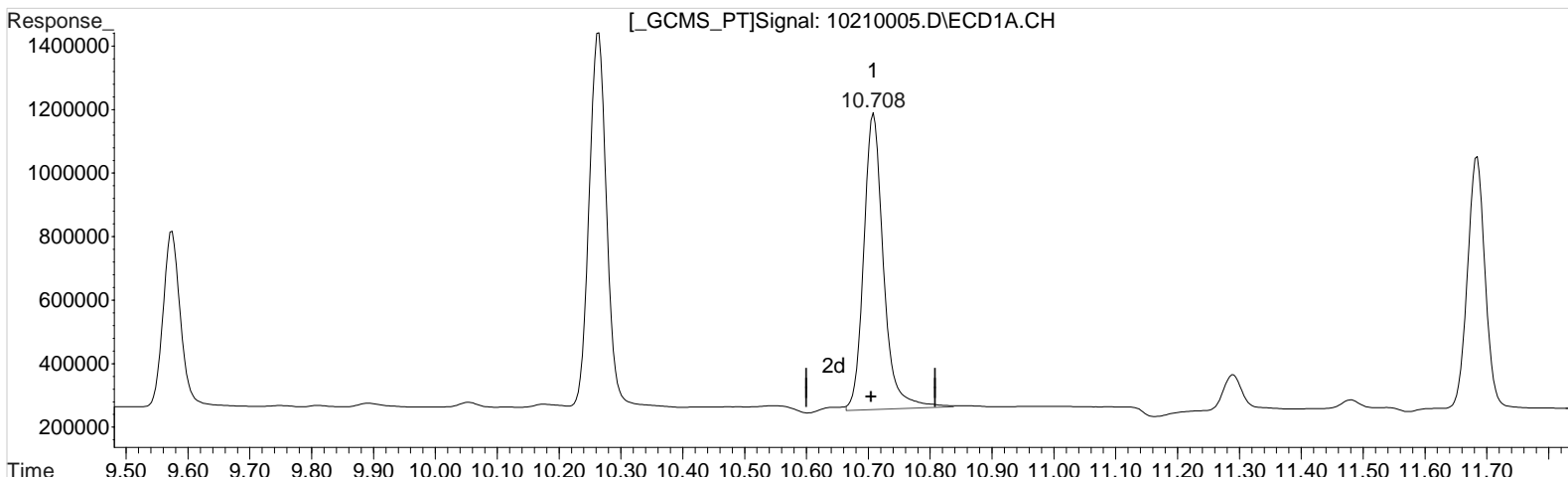
Manual Integration:
Before
10/21/20

(9) 2,4,5-T #2 (m)
10.534min 26.821 ppb
response 4914810

Data File : J:\gc24\data\102120\10210005.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm Operator: UA
Sample : PENTA2-14L 25PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:26:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(9) 2,4,5-T (m)
10.708min 25.526 ppb m
response 2067316

Manual Integration:
After
Baseline/Shoulder
10/21/20

(9) 2,4,5-T #2 (m)
10.534min 26.821 ppb
response 4914810

Data File : J:\gc24\data\102120\10210006.D Vial: 5
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 21 Oct 2020 2:33 pm Operator: UA
 Sample : PENTA2-14M 75PPB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Oct 21 17:26:03 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:24:19 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.994	7.813	1215646	2731831	70.442	70.893
Target Compounds						
1) m Dalapon	3.127	2.873	1539560	3208933	65.523m	67.872m
3) m Dicamba	8.214	7.917	4777999	10040786	70.417	70.550
4) m MCPP	8.300	8.103	302116	1300529	6746.467	8151.025
5) m MCPA	8.564	8.350	422140	1746556	7002.375	8103.973
6) m Dichloroprop	8.964	8.750	1271081	2826954	72.793	73.826
7) m 2,4-D	9.324	9.057	1462698	3415664	72.757	73.646
8) m 2,4,5-TP ...	10.260	10.127	6475348	13928120	69.897	71.425
9) m 2,4,5-T	10.704	10.530	5799509	13030282	71.712	71.109
10) m 2,4-DB	11.284	11.163	711824	1973095	72.304m	72.345
11) m Dinoseb	11.680	11.313	4350886	9284027	73.117	72.100

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

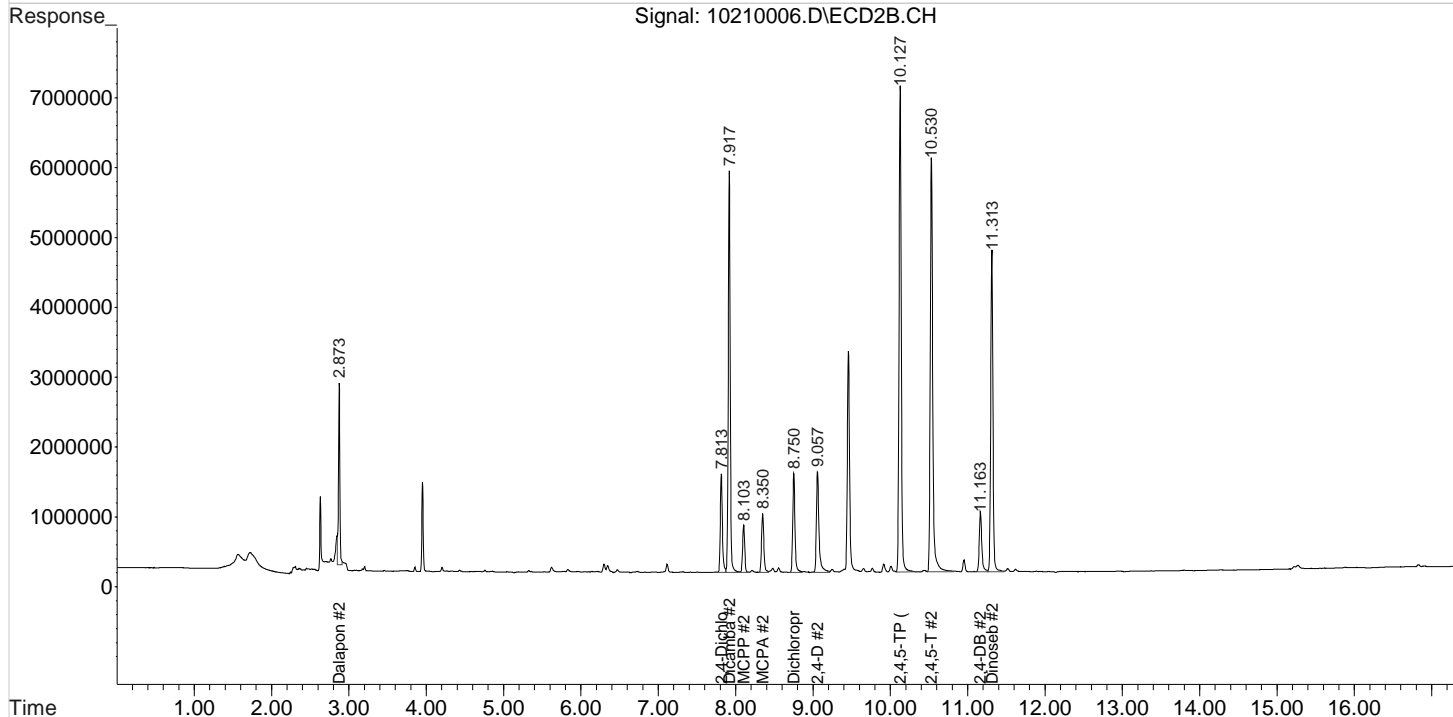
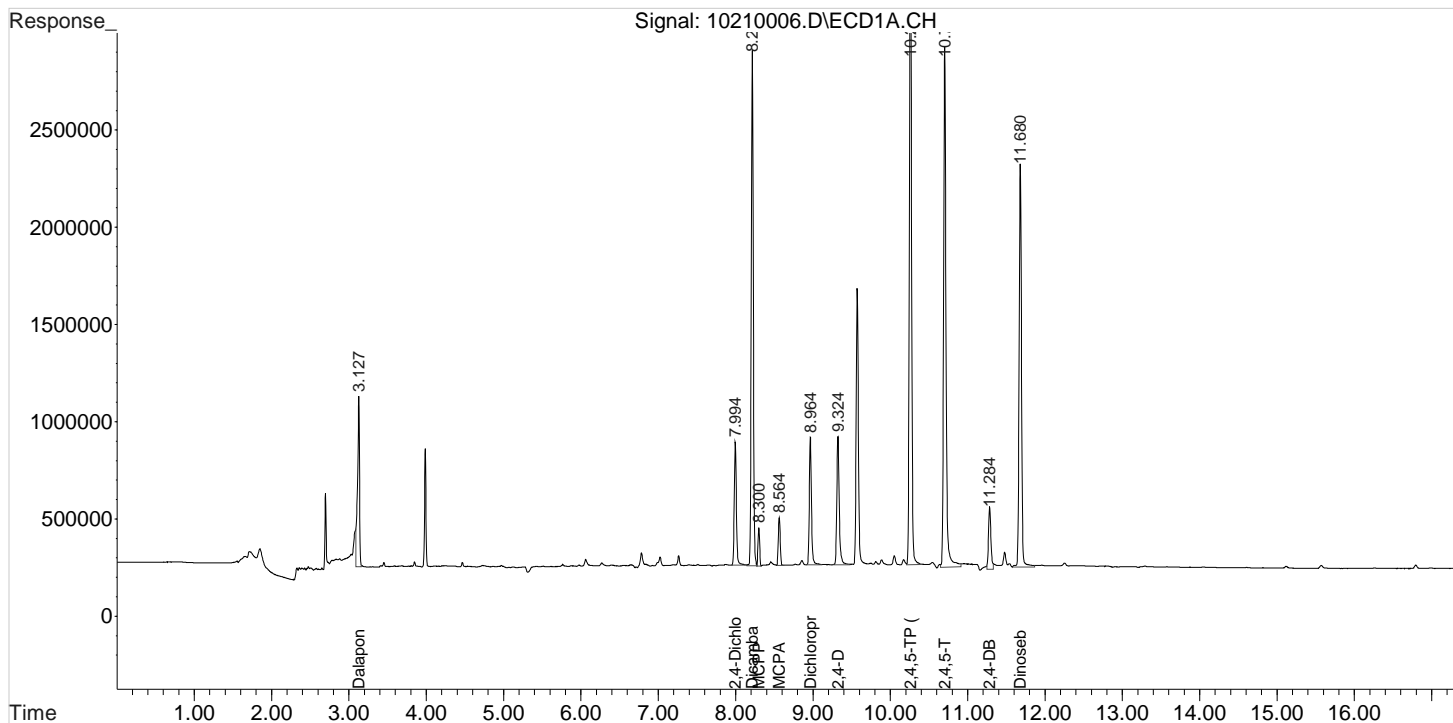
Data File : J:\gc24\data\102120\10210006.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:33 pm
Sample : PENTA2-14M 75PPB
Misc :

Vial: 5
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:26:03 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:24:19 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

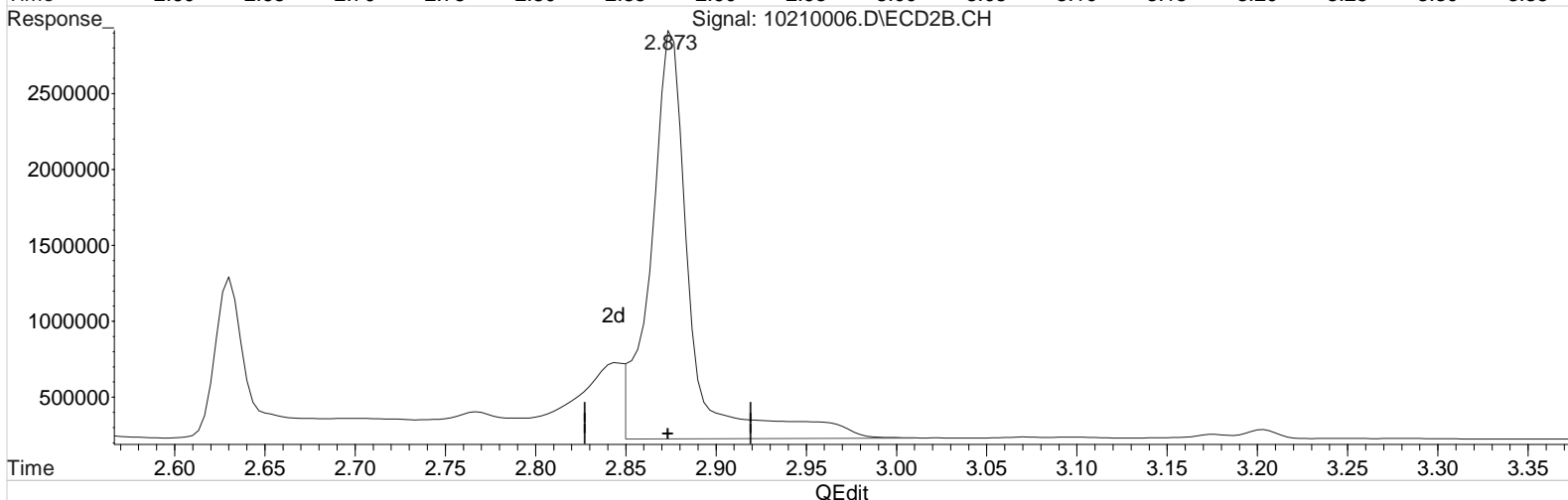
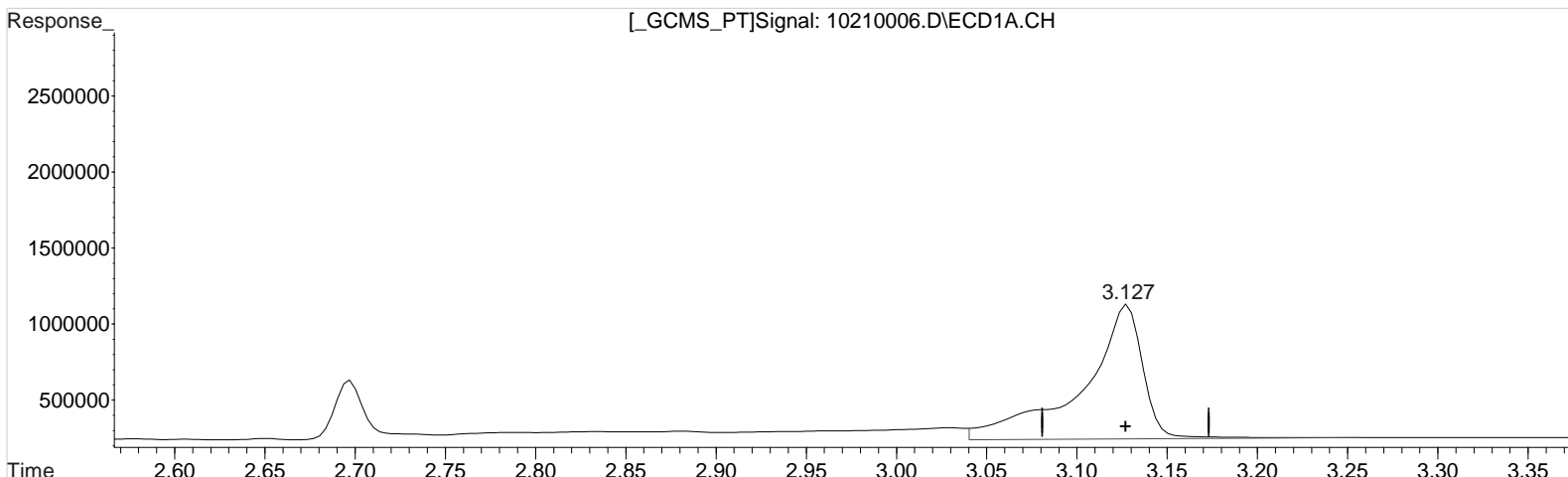
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\102120\10210006.D Vial: 5
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:33 pm Operator: UA
Sample : PENTA2-14M 75PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:24:40 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:24:19 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.127min 88.037 ppb
response 2068544

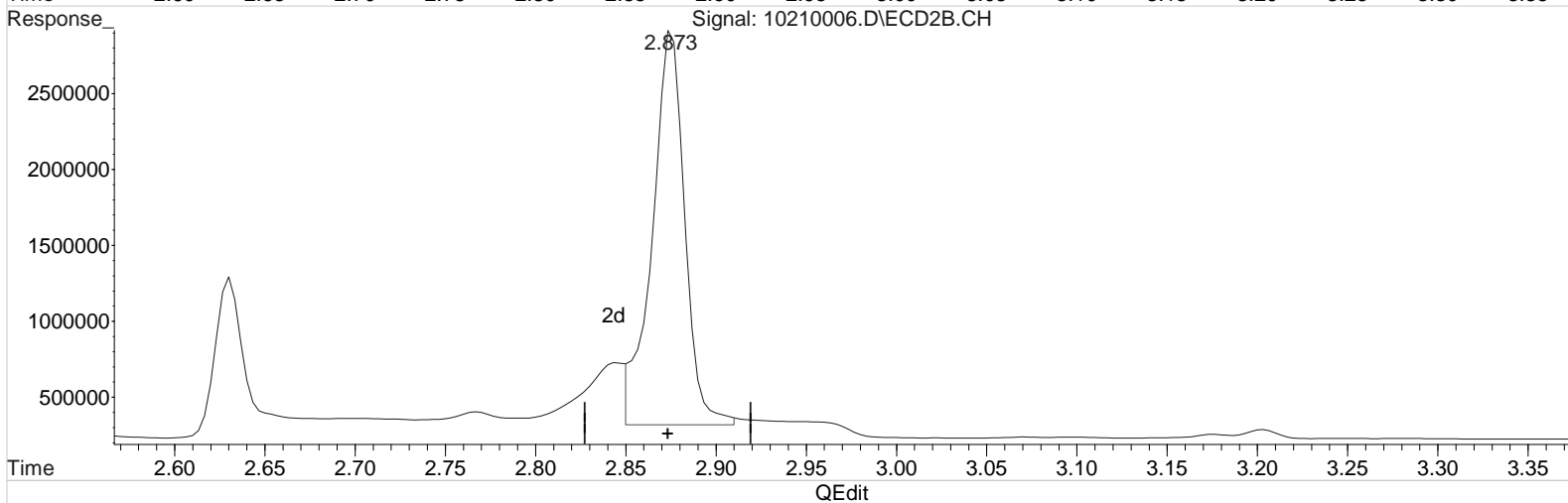
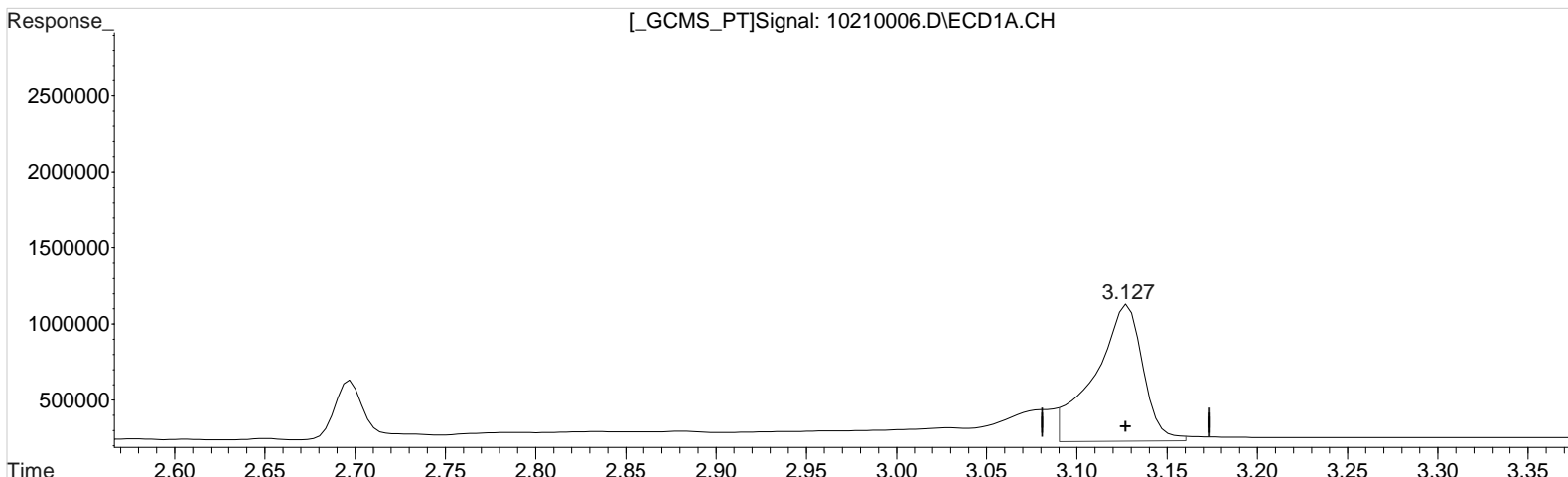
Manual Integration:
Before
10/21/20

(1) Dalapon #2 (m)
2.873min 84.167 ppb
response 3979368

Data File : J:\gc24\data\102120\10210006.D Vial: 5
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:33 pm Operator: UA
Sample : PENTA2-14M 75PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:24:40 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:24:19 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.127min 70.095 ppb m
response 1646979

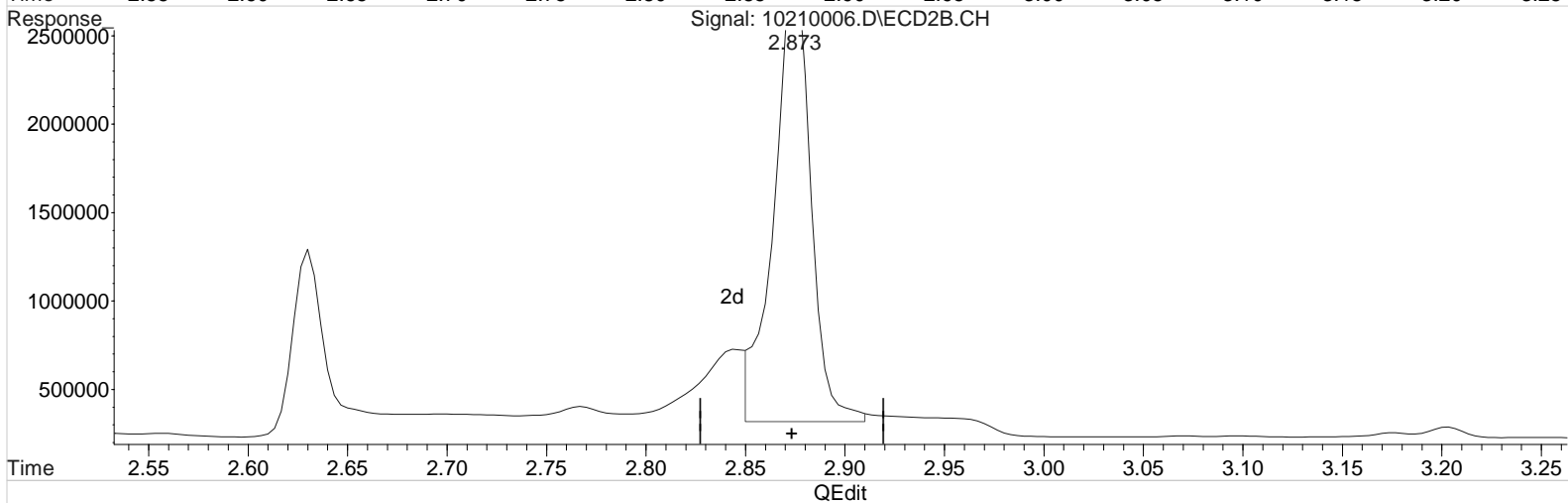
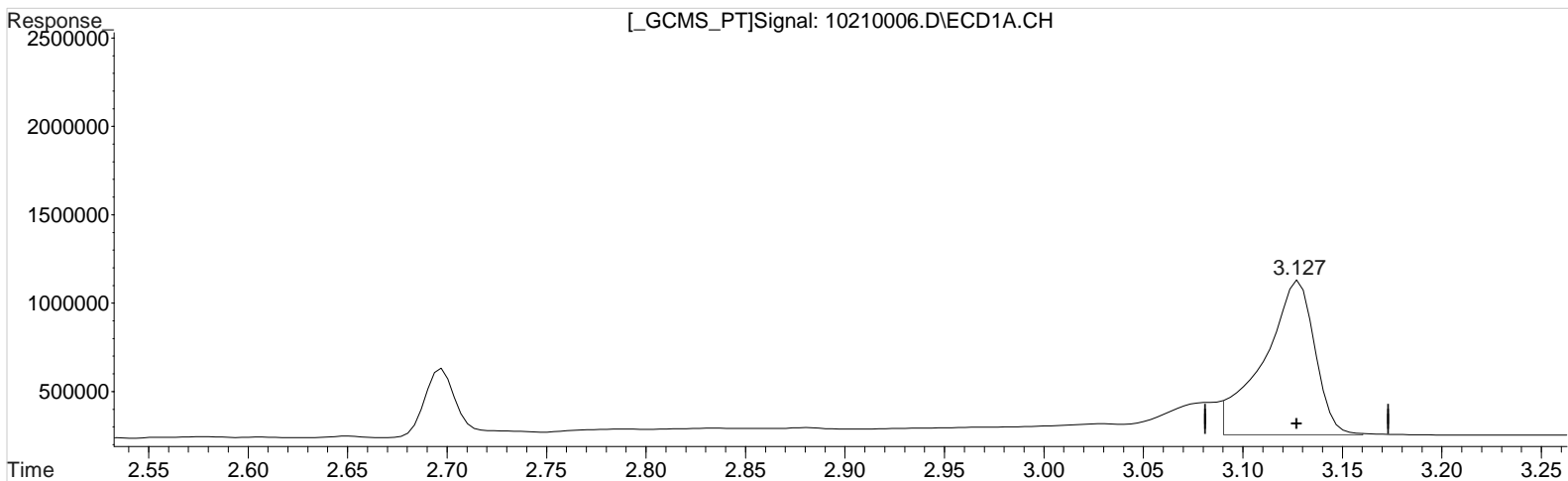
(1) Dalapon #2 (m)
2.873min 67.872 ppb m
response 3208933

Manual Integration:
After
Baseline/Shoulder
10/21/20

Data File : J:\gc24\data\102120\10210006.D Vial: 5
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:33 pm Operator: UA
Sample : PENTA2-14M 75PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:24:40 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:24:19 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.127min 65.523 ppb m
response 1539560

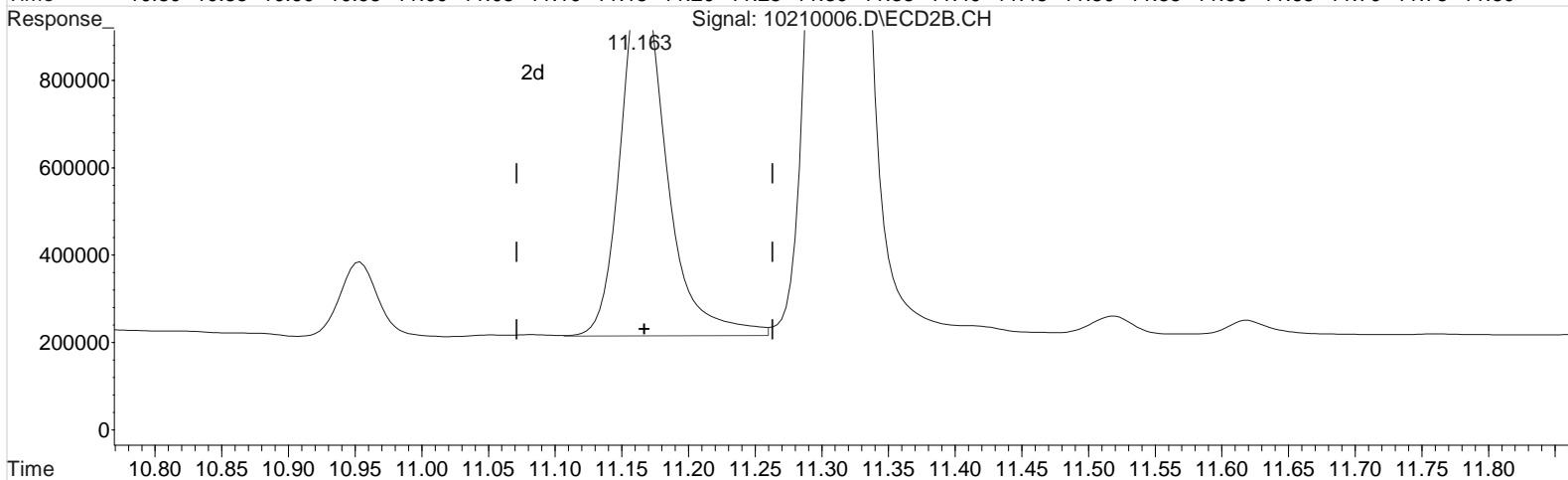
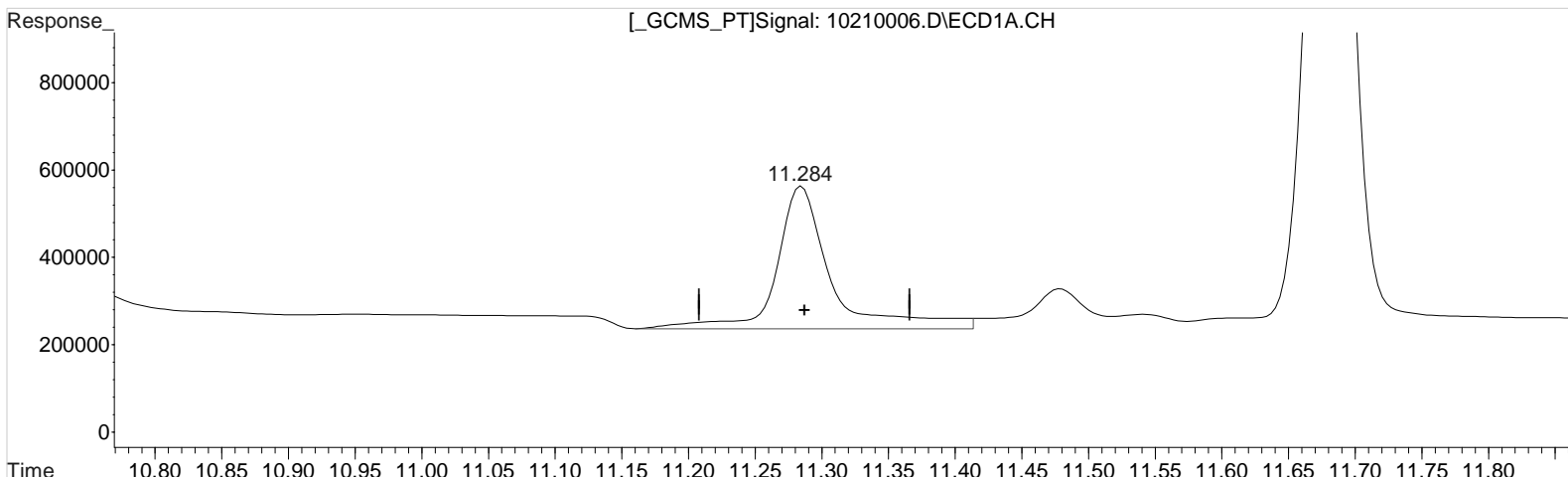
(1) Dalapon #2 (m)
2.873min 67.872 ppb m
response 3208933

Manual Integration:
After
Baseline/Shoulder
10/21/20

Data File : J:\gc24\data\102120\10210006.D Vial: 5
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:33 pm Operator: UA
Sample : PENTA2-14M 75PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:24:40 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:24:19 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(10) 2,4-DB (m)

11.284min 94.555 ppb

response 930876

Manual Integration:

Before

10/21/20

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

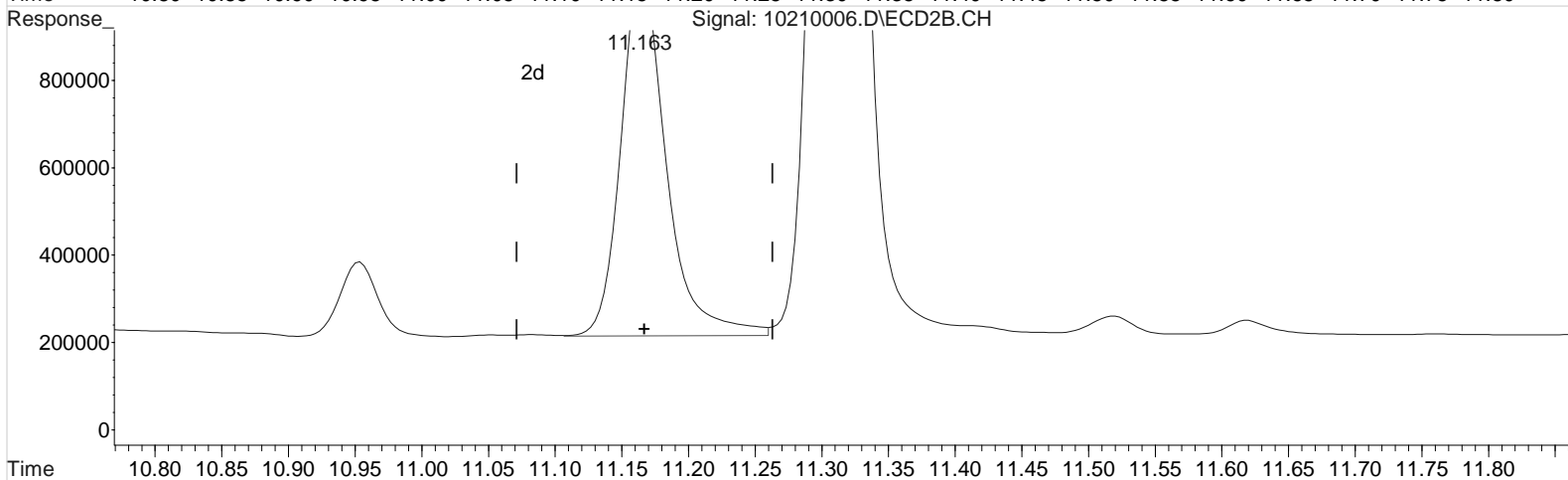
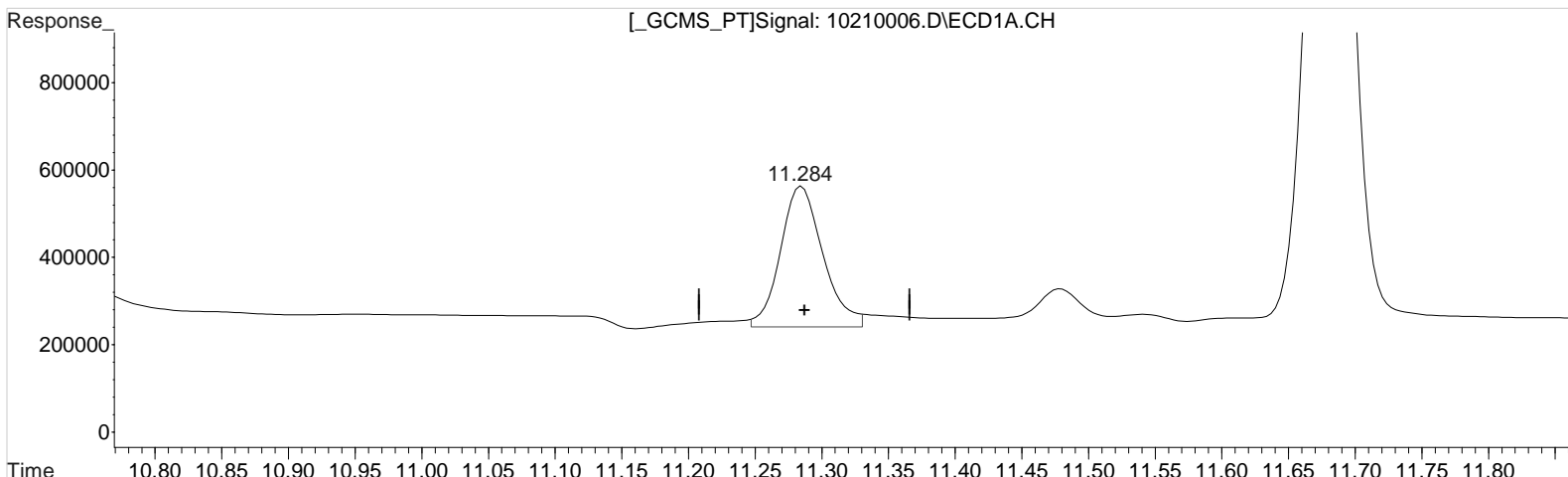
11.163min 72.345 ppb

response 1973095

Data File : J:\gc24\data\102120\10210006.D Vial: 5
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:33 pm Operator: UA
Sample : PENTA2-14M 75PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:24:40 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:24:19 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



QEdit

(10) 2,4-DB (m)
11.284min 72.304 ppb m
response 711824

Manual Integration:
After
Baseline/Shoulder
10/21/20

(10) 2,4-DB #2 (m)
11.163min 72.345 ppb
response 1973095

Data File : J:\gc24\data\102120\10210007.D Vial: 6
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 21 Oct 2020 2:57 pm Operator: UA
 Sample : PENTA2-14N 100PB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Oct 21 17:16:06 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:14:34 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.997	7.817	1618486	3565715	90.200	90.200
Target Compounds						
1) m Dalapon	3.127	2.873	2162531	4219125	94.759m	90.872m
3) m Dicamba	8.217	7.917	6478443	13439517	94.000	94.000
4) m MCPP	8.300	8.107	420510	1620847	9386.000	9386.000
5) m MCPA	8.567	8.353	573212	2171147	9346.000	9346.000
6) m Dichloroprop	8.967	8.753	1713548	3718829	94.400	94.400
7) m 2,4-D	9.324	9.057	1932853	4480708	94.000	94.000
8) m 2,4,5-TP ...	10.264	10.130	8853387	18598859	95.100	95.100
9) m 2,4,5-T	10.704	10.530	7699095	17520598	94.800	95.204
10) m 2,4-DB	11.287	11.167	941169	2610405	93.789m	94.700
11) m Dinoseb	11.684	11.313	5699341	12298812	94.500	94.500

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

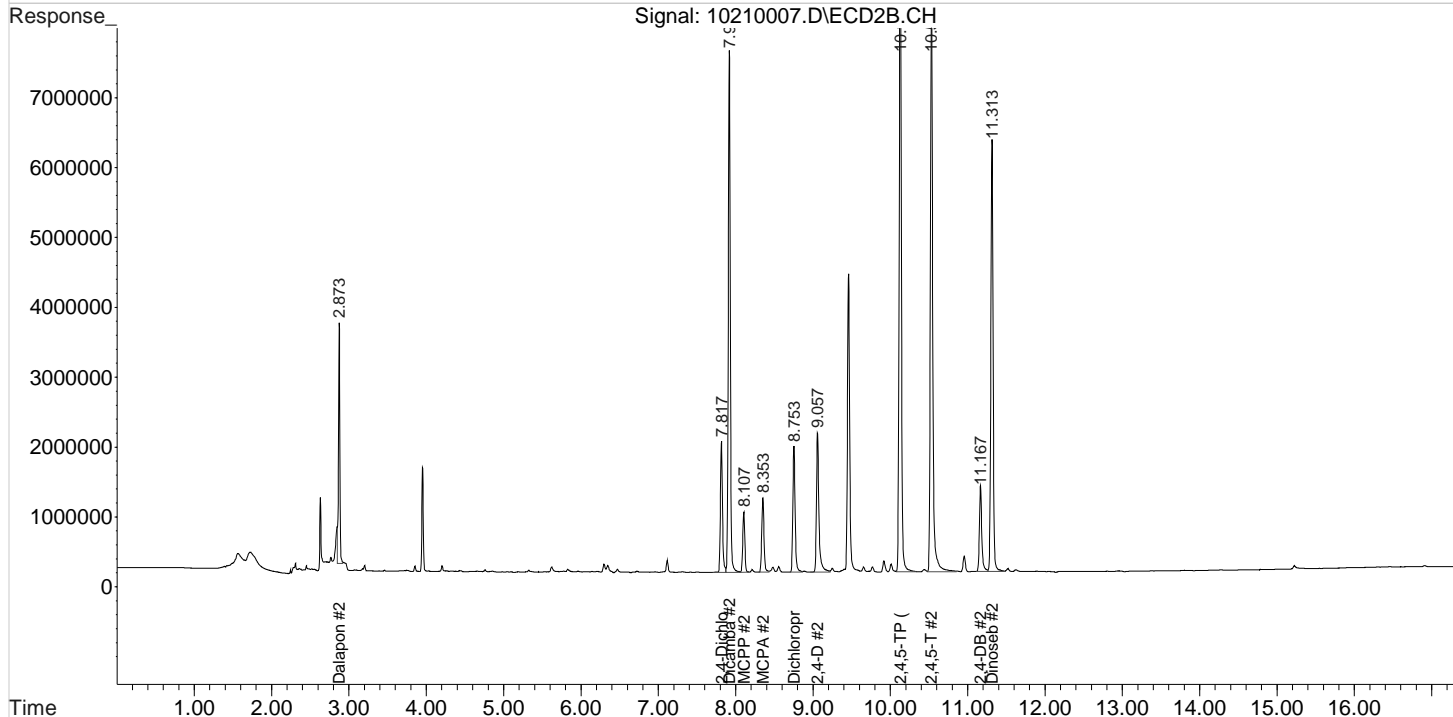
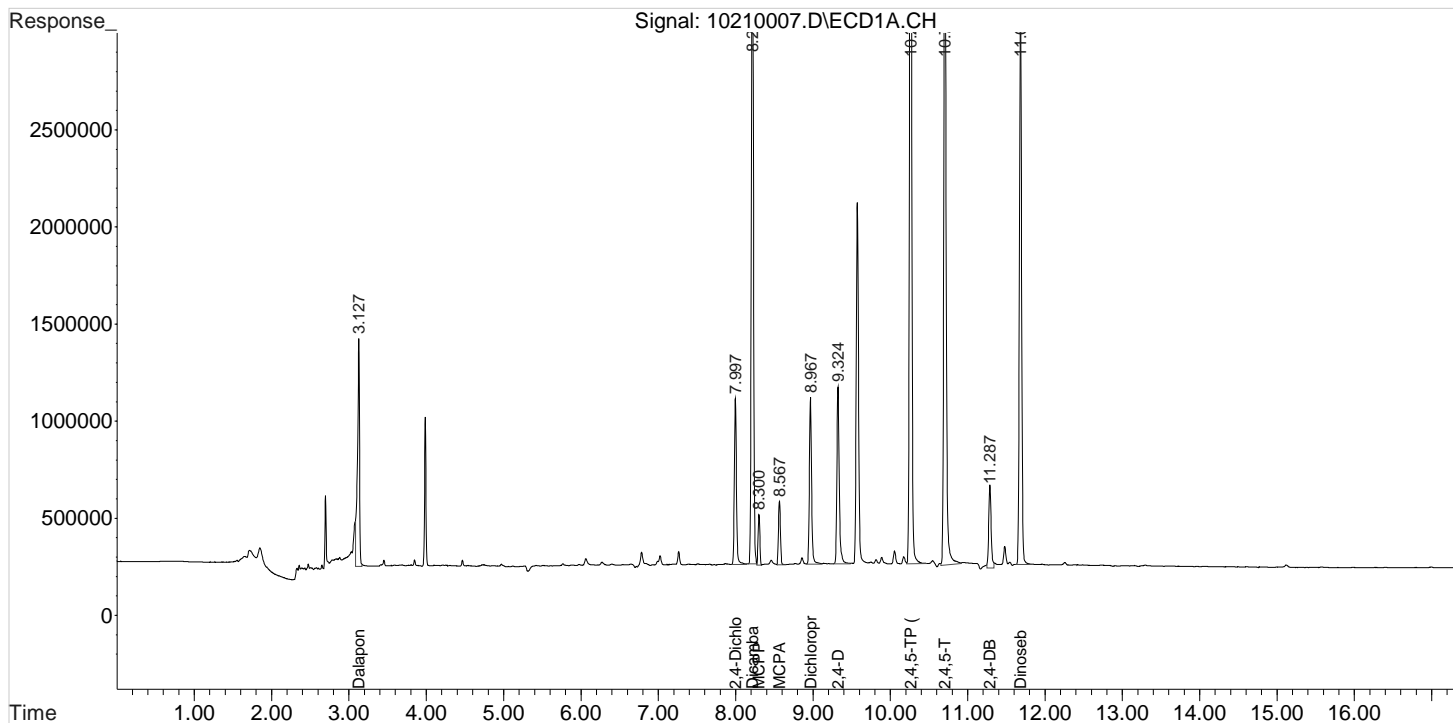
Data File : J:\gc24\data\102120\10210007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:57 pm
Sample : PENTA2-14N 100PB
Misc :

Vial: 6
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:16:06 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:14:34 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

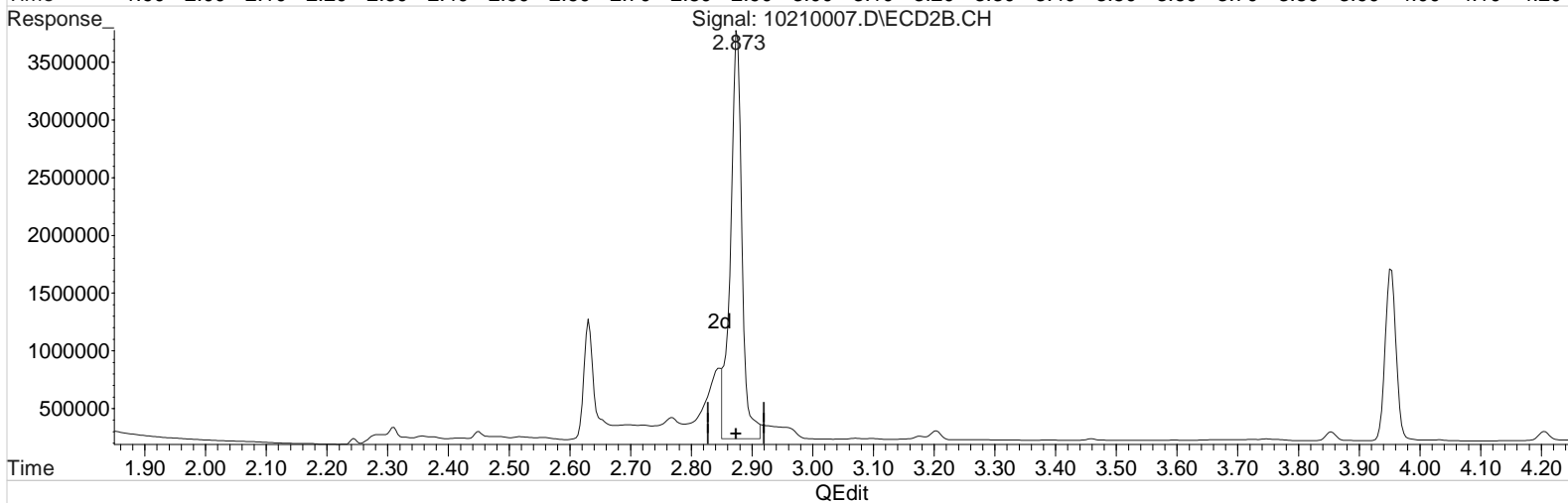
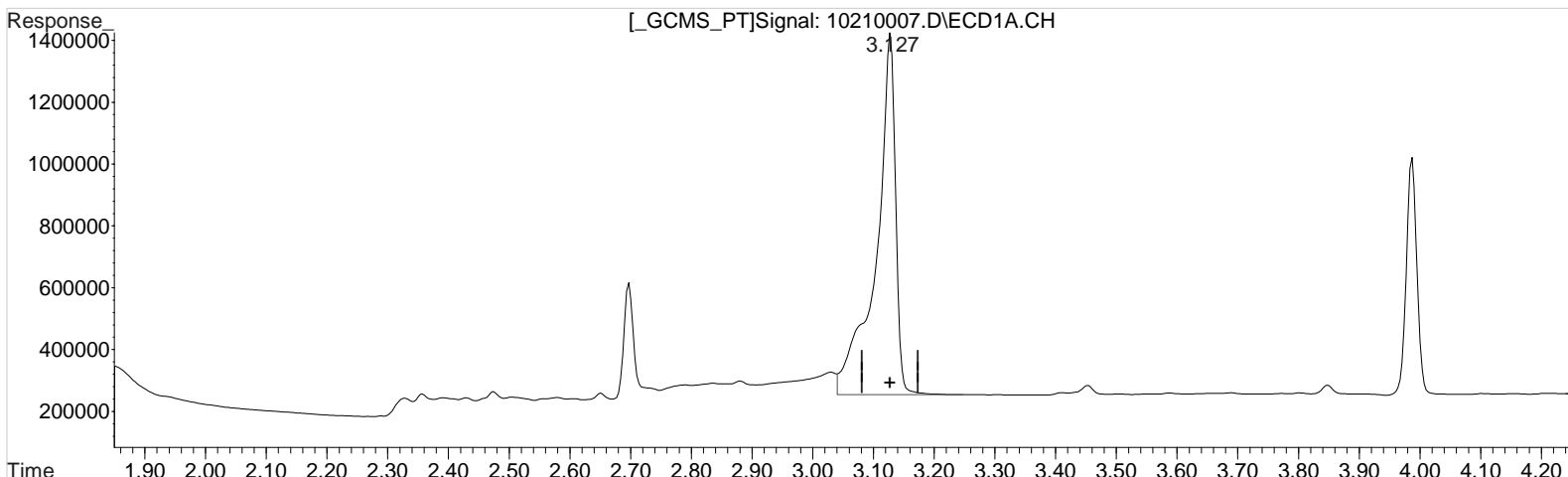
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\102120\10210007.D Vial: 6
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 21 Oct 2020 2:57 pm Operator: UA
 Sample : PENTA2-14N 100PB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Oct 21 16:16:14 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 16:16:08 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
 3.127min 91.100 ppb
 response 2583448

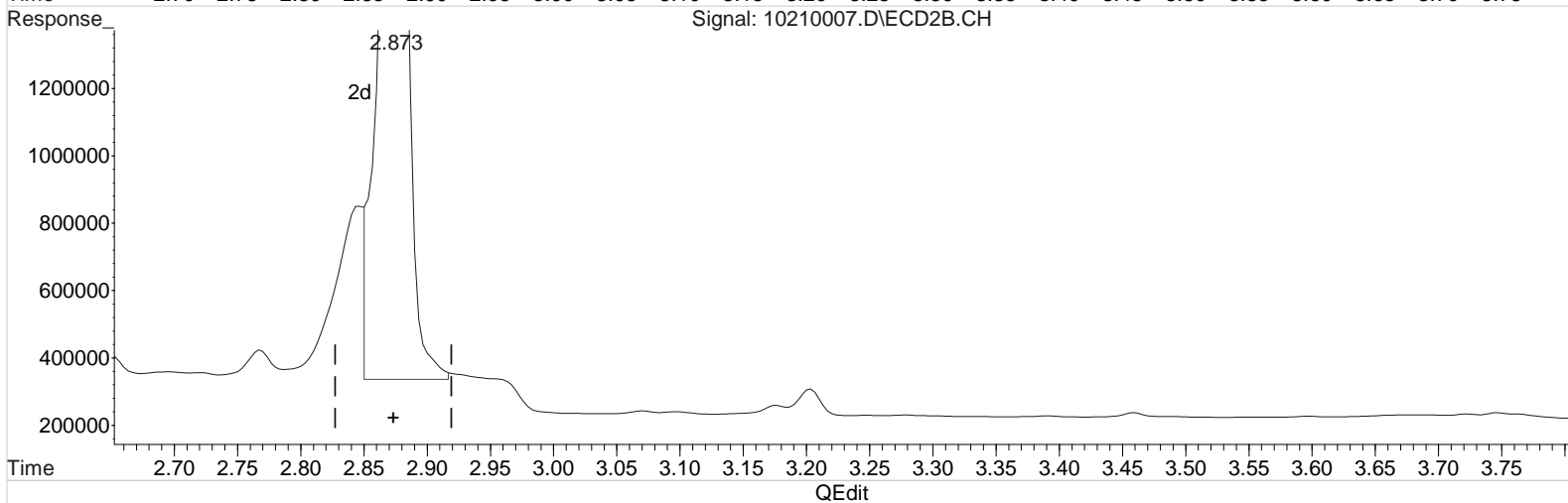
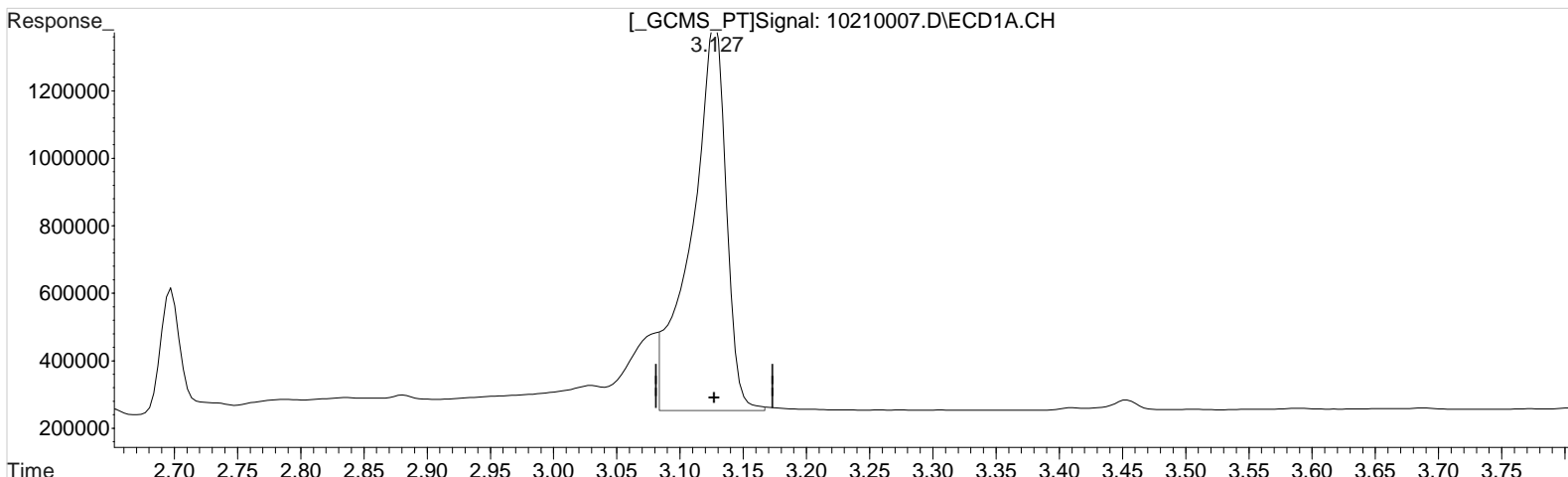
Manual Integration:
 After
 Baseline/Shoulder
 10/21/20

(1) Dalapon #2 (m)
 2.873min 90.173 ppb m
 response 4587035

Data File : J:\gc24\data\102120\10210007.D Vial: 6
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:57 pm Operator: UA
Sample : PENTA2-14N 100PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:14:42 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:14:34 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.127min 94.759 ppb m
response 2162531

Manual Integration:
After
Baseline/Shoulder
10/21/20

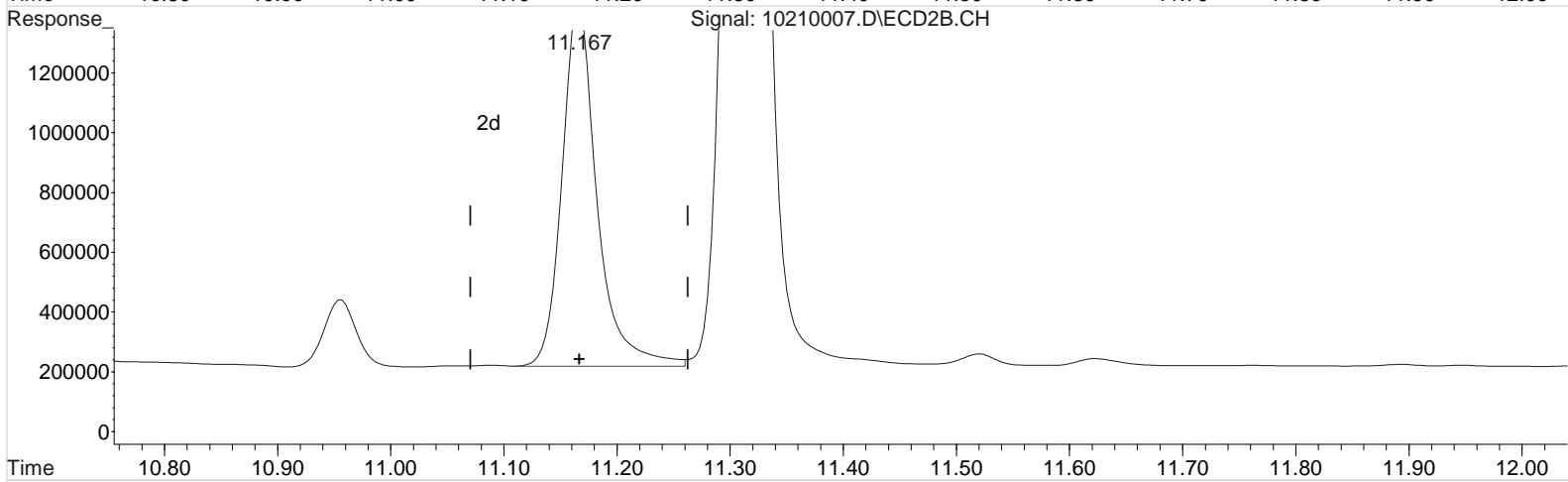
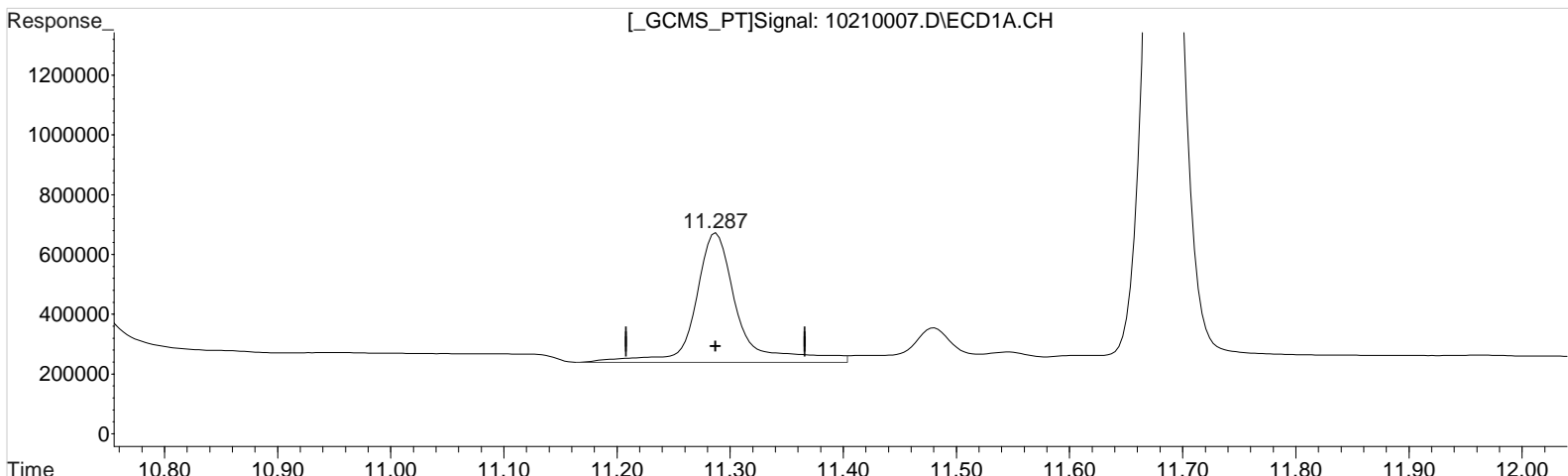
(1) Dalapon #2 (m)
2.873min 90.872 ppb m
response 4219125

(+) = Expected Retention Time

Data File : J:\gc24\data\102120\10210007.D Vial: 6
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:57 pm Operator: UA
Sample : PENTA2-14N 100PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:14:42 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:14:34 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(10) 2,4-DB (m)
11.287min 112.668 ppb
response 1130621

Manual Integration:
Before
10/21/20

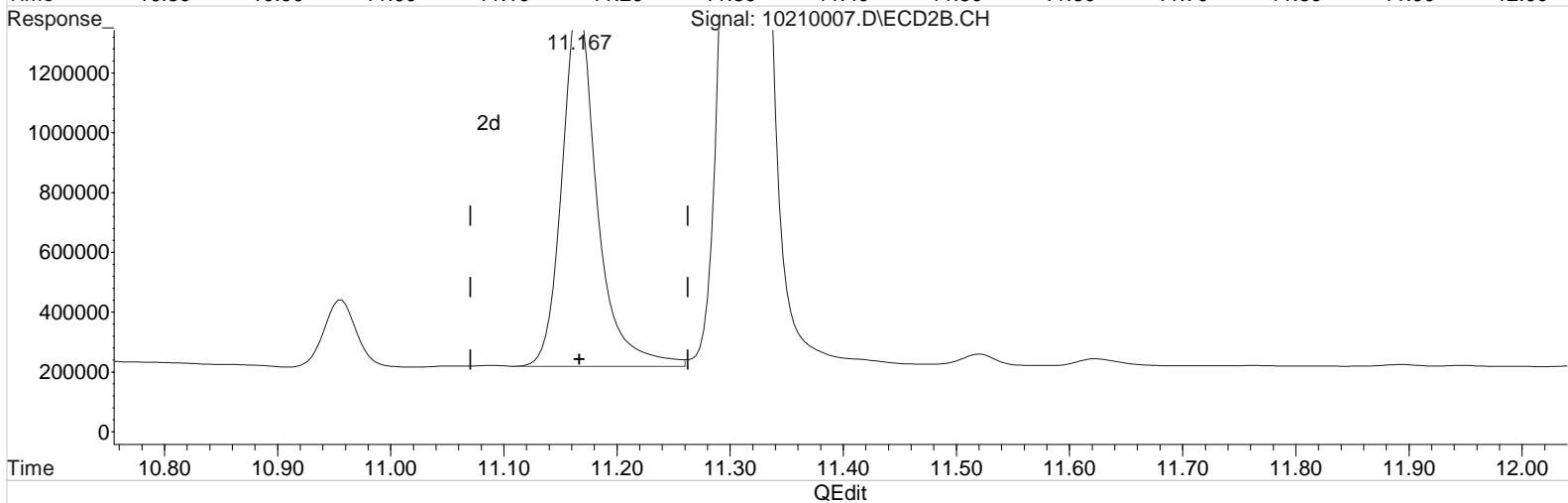
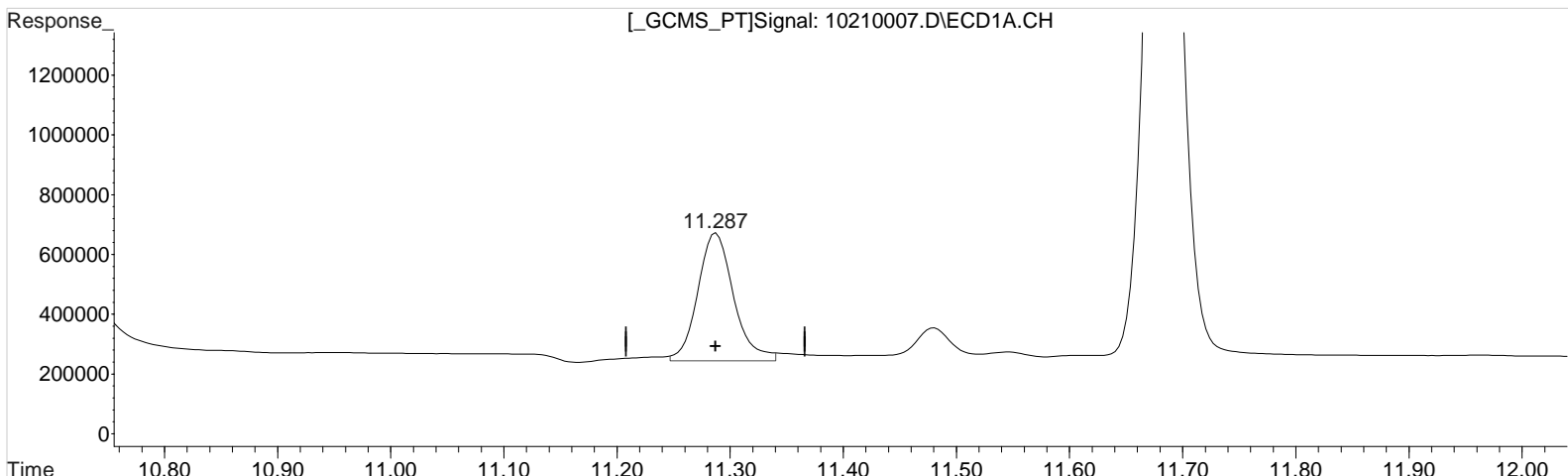
(10) 2,4-DB #2 (m)
11.167min 94.700 ppb
response 2610405

Data File : J:\gc24\data\102120\10210007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:57 pm
Sample : PENTA2-14N 100PB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:14:42 2020
Quant Results File: 102120_8151.RES

Vial: 6
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:14:34 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(10) 2,4-DB (m)
11.287min 93.789 ppb m
response 941169

(10) 2,4-DB #2 (m)
11.167min 94.700 ppb
response 2610405

Manual Integration:
After
Baseline/Shoulder
10/21/20

Data File : J:\gc24\data\102120\10210008.D Vial: 7
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 21 Oct 2020 3:21 pm Operator: UA
 Sample : PENTA2-15A 125PB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Oct 21 17:24:02 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:22:48 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.993	7.813	1959232	4387572	113.731	114.146
Target Compounds						
1) m Dalapon	3.127	2.873	2668589	5506745	113.511m	117.152m
3) m Dicamba	8.213	7.916	7967267	16745862	117.390	117.694
4) m MCPP	8.300	8.106	522627	1929619	11655.124	12187.501
5) m MCPA	8.563	8.350	704455	2590948	11685.949	12109.753
6) m Dichloroprop	8.963	8.750	2070717	4562901	118.745	119.464
7) m 2,4-D	9.320	9.056	2385344	5502448	118.932	118.917
8) m 2,4,5-TP ...	10.260	10.126	10956862	23161274	118.135	118.763
9) m 2,4,5-T	10.703	10.530	9647622	21578156	119.497	117.574
10) m 2,4-DB	11.283	11.166	1184989	3225586	120.887m	118.254
11) m Dinoseb	11.680	11.313	7044640	15278779	118.457	118.795

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

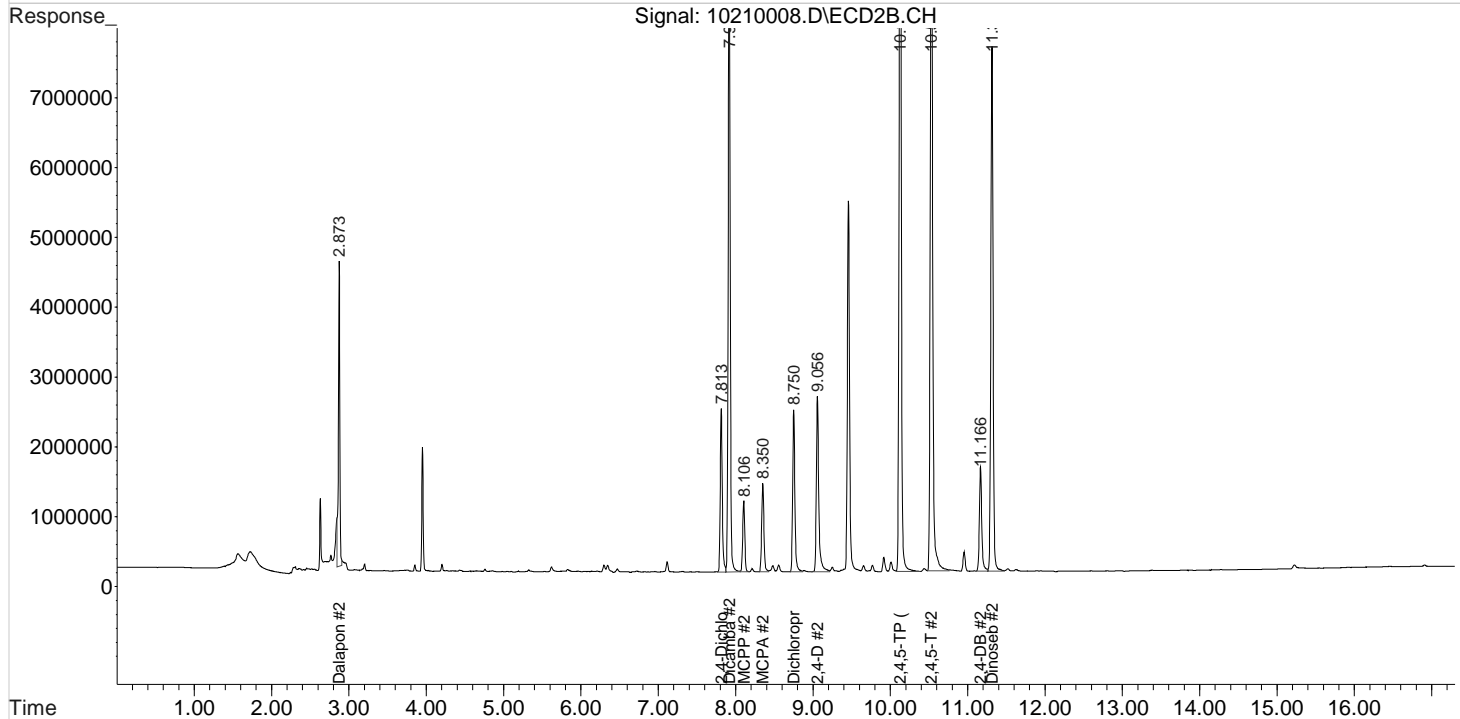
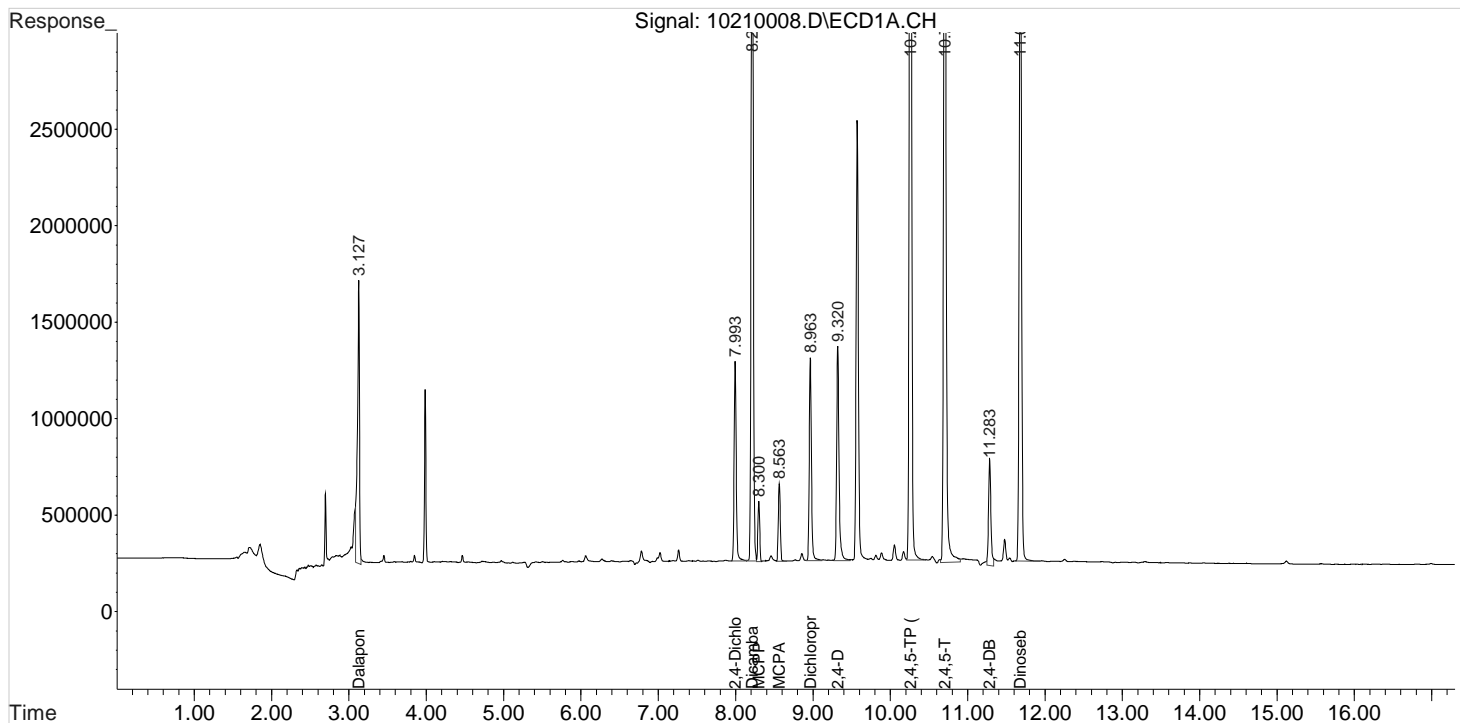
Data File : J:\gc24\data\102120\10210008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:21 pm
Sample : PENTA2-15A 125PB
Misc :

Vial: 7
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:24:02 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:22:48 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

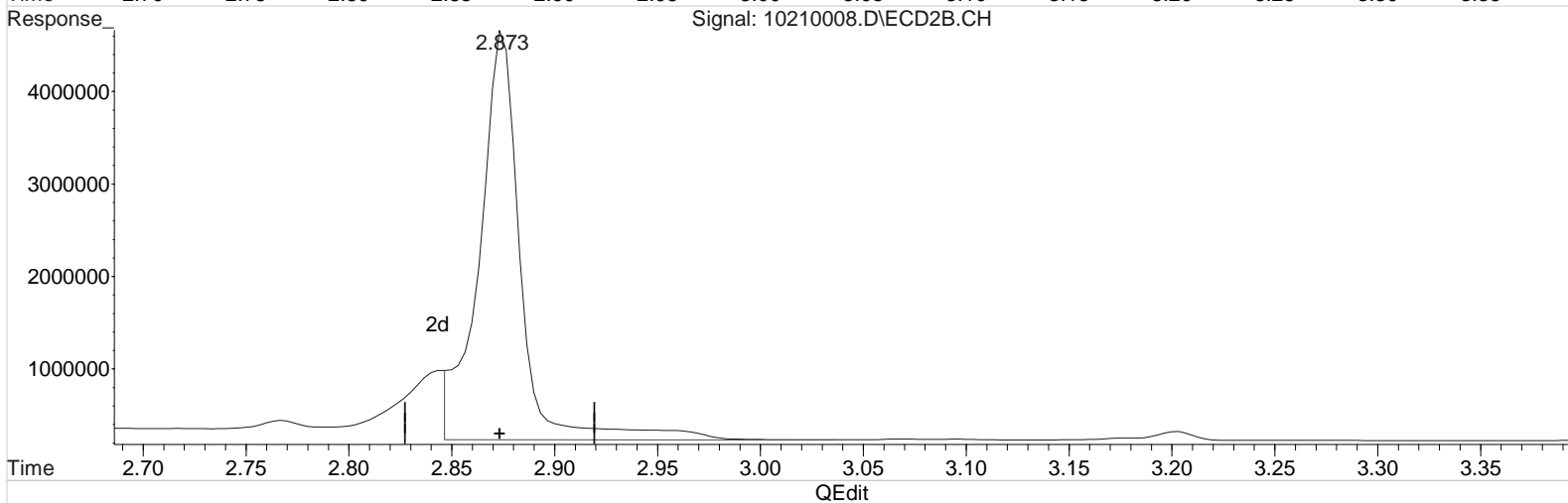
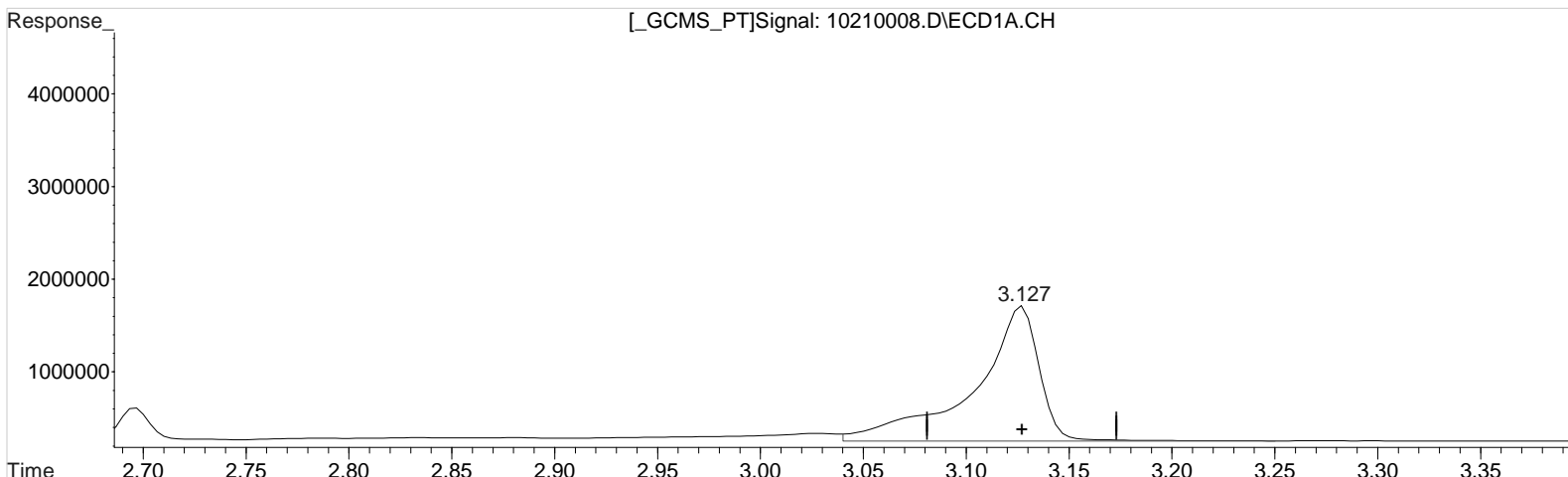
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\102120\10210008.D Vial: 7
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:21 pm Operator: UA
Sample : PENTA2-15A 125PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:22:59 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:22:48 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.127min 135.159 ppb
response 3177545

Manual Integration:
Before
10/21/20

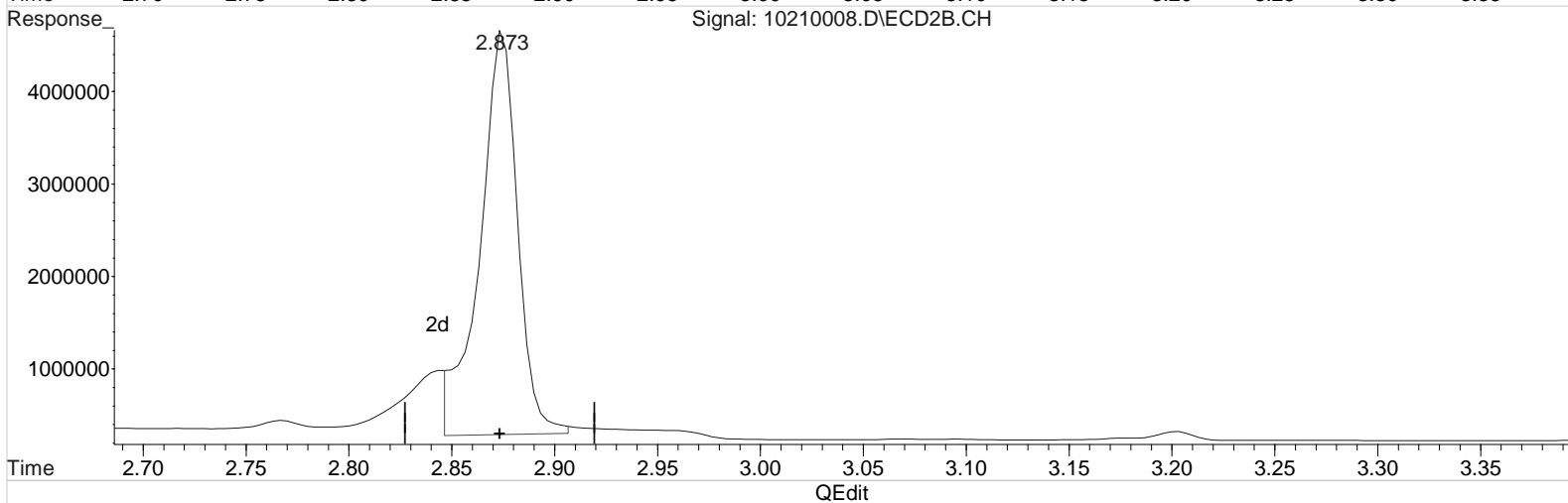
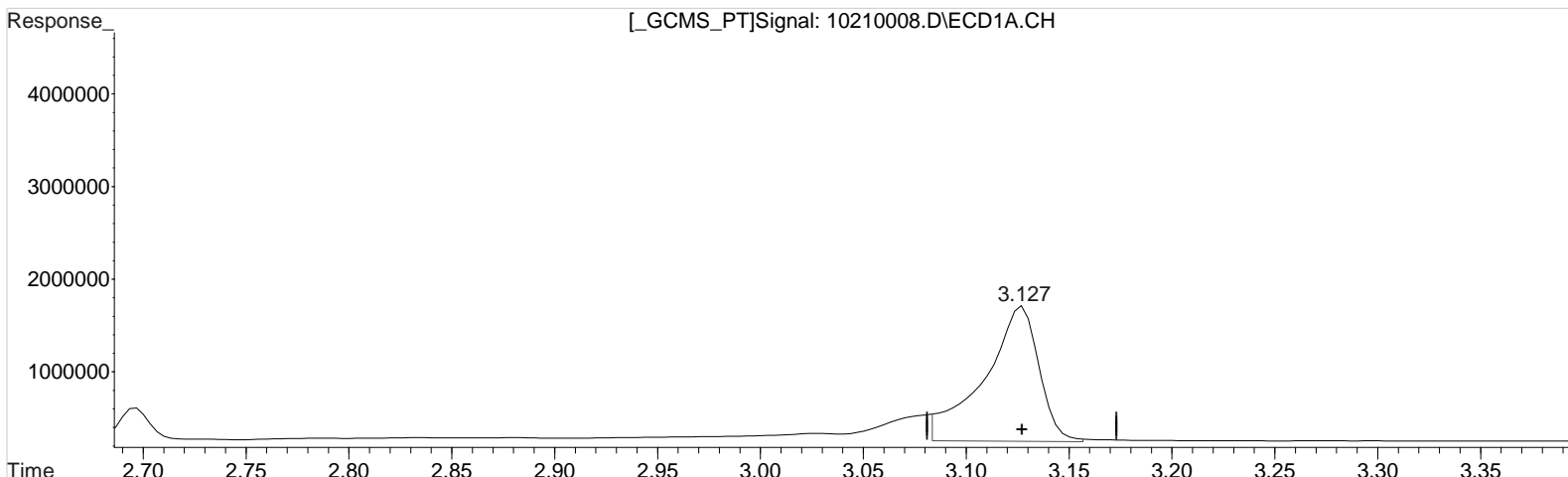
(1) Dalapon #2 (m)
2.873min 131.218 ppb
response 6167907

(+) = Expected Retention Time

Data File : J:\gc24\data\102120\10210008.D Vial: 7
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:21 pm Operator: UA
Sample : PENTA2-15A 125PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:22:59 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:22:48 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.127min 113.511 ppb m
response 2668589

Manual Integration:
After
Baseline/Shoulder
10/21/20

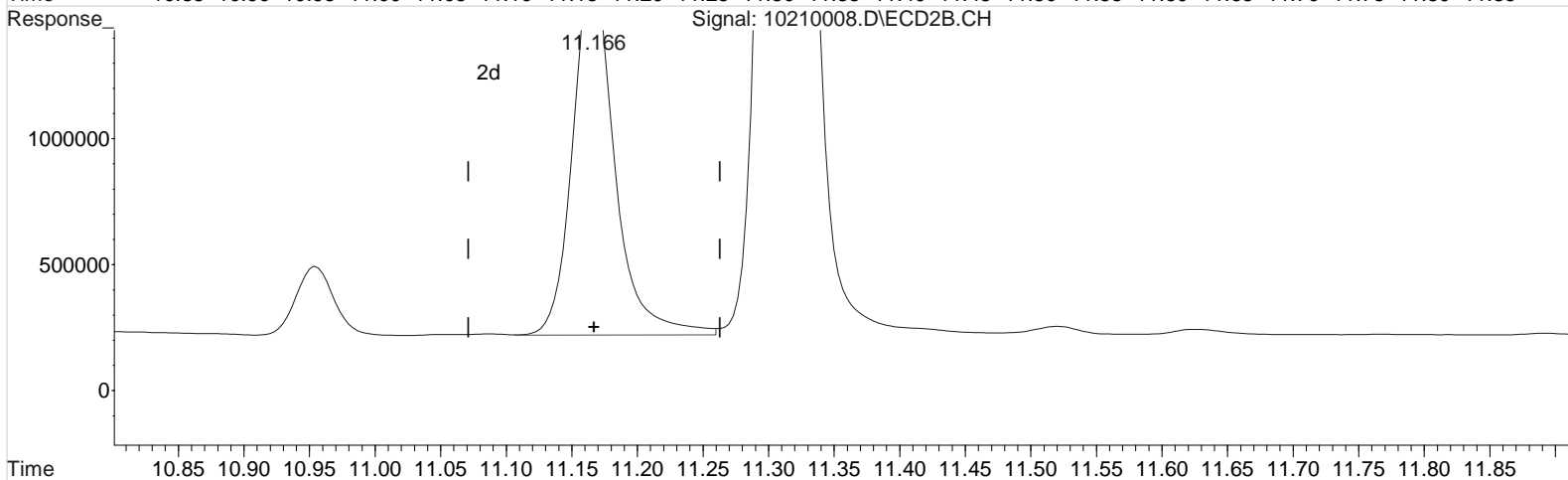
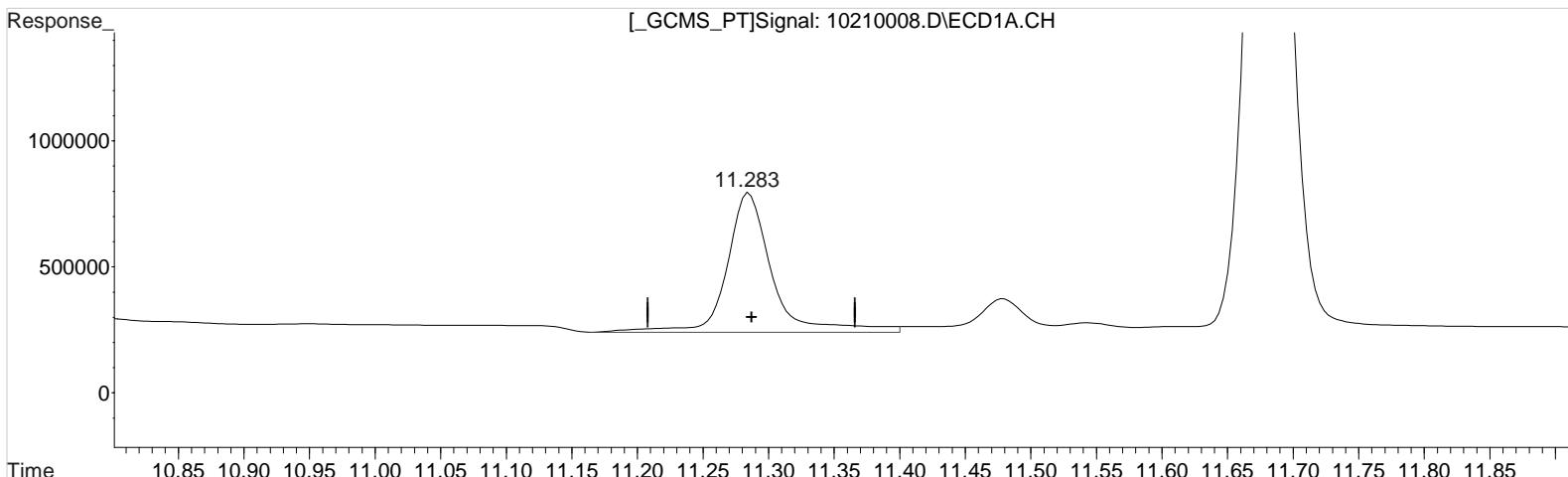
(1) Dalapon #2 (m)
2.873min 117.152 ppb m
response 5506745

(+) = Expected Retention Time

Data File : J:\gc24\data\102120\10210008.D Vial: 7
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:21 pm Operator: UA
Sample : PENTA2-15A 125PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:22:59 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:22:48 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



QEdit

(10) 2,4-DB (m)
11.283min 135.786 ppb
response 1331036

Manual Integration:

Before

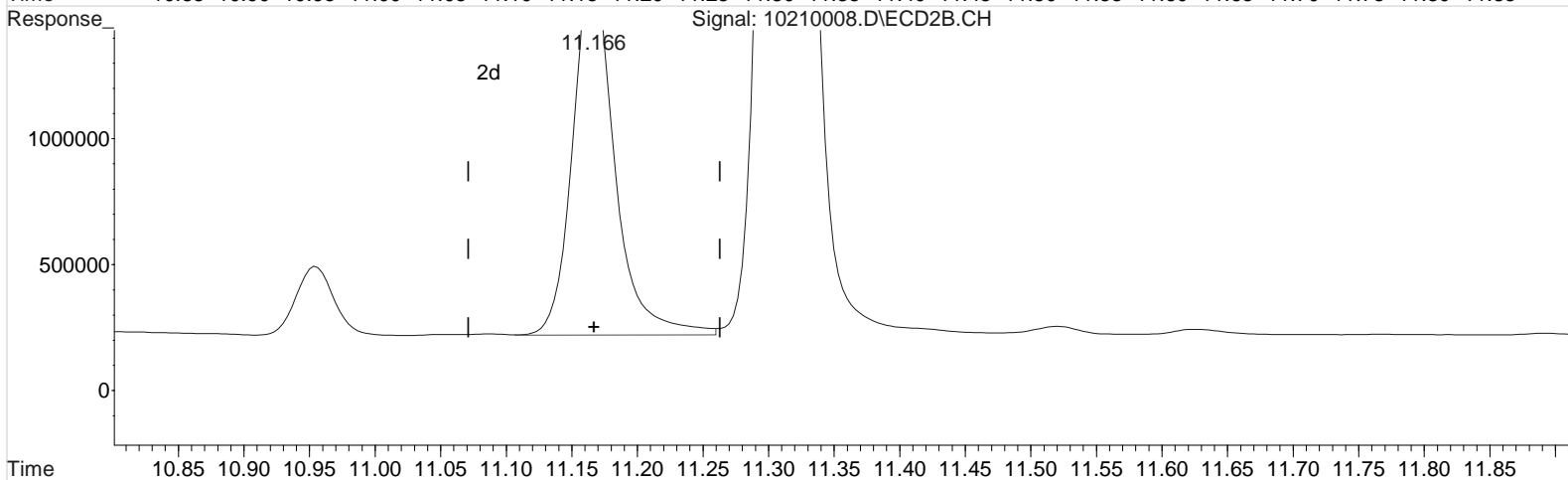
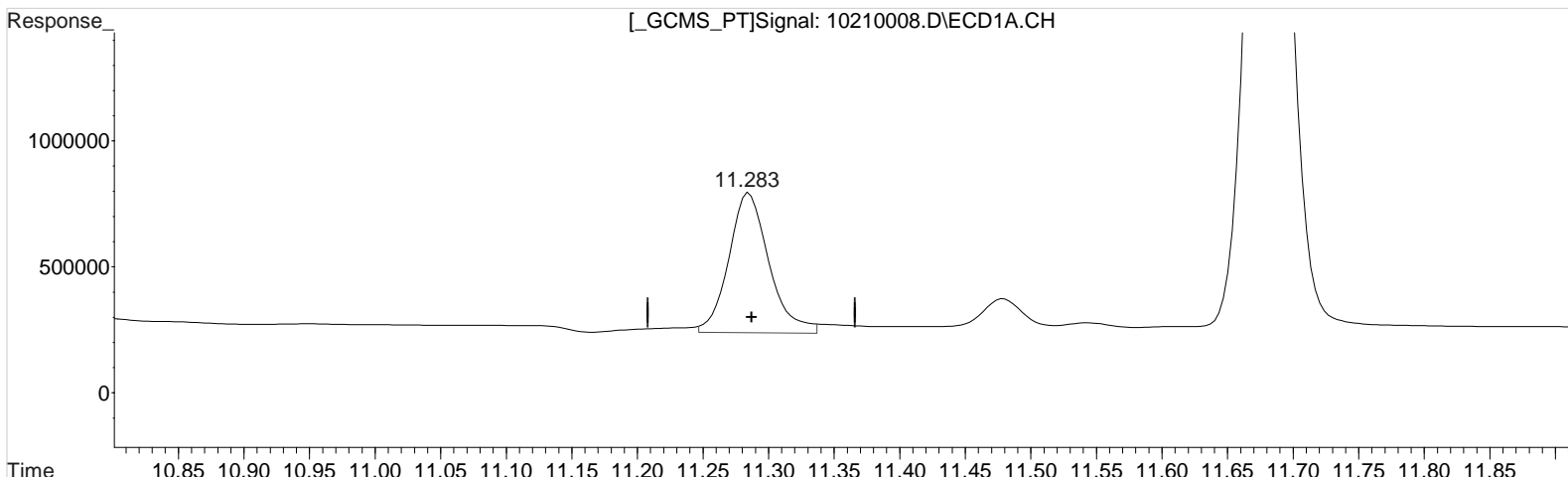
10/21/20

(10) 2,4-DB #2 (m)
11.166min 118.254 ppb
response 3225586

Data File : J:\gc24\data\102120\10210008.D Vial: 7
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:21 pm Operator: UA
Sample : PENTA2-15A 125PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:22:59 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:22:48 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(10) 2,4-DB (m)
11.283min 120.887 ppb m
response 1184989

(10) 2,4-DB #2 (m)
11.166min 118.254 ppb
response 3225586

Manual Integration:
After
Baseline/Shoulder
10/21/20

Data File : J:\gc24\data\102120\10210009.D Vial: 8
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 21 Oct 2020 3:44 pm Operator: UA
 Sample : PENTA2-15B 150PB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Oct 21 17:22:31 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:20:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.993	7.813	2343632	5169864	136.302	134.240
Target Compounds						
1) m Dalapon	3.127	2.873	3258567	6370947	139.287m	135.187m
3) m Dicamba	8.213	7.916	9633232	19969572	142.235	140.119
4) m MCPP	8.297	8.103	633683	2215911	14149.230	13967.949
5) m MCPA	8.563	8.350	847585	2986150	14073.890	13936.089
6) m Dichloroprop	8.963	8.750	2480194	5391085	142.454	141.013
7) m 2,4-D	9.320	9.056	2855823	6510874	142.843	140.598
8) m 2,4,5-TP ...	10.260	10.126	13345050	27761527	144.324	142.275
9) m 2,4,5-T	10.703	10.530	11750806	26085006	146.702	142.112
10) m 2,4-DB	11.283	11.163	1423732	3879490	146.356m	142.303
11) m Dinoseb	11.680	11.310	8545635	18219499	144.368	141.640

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

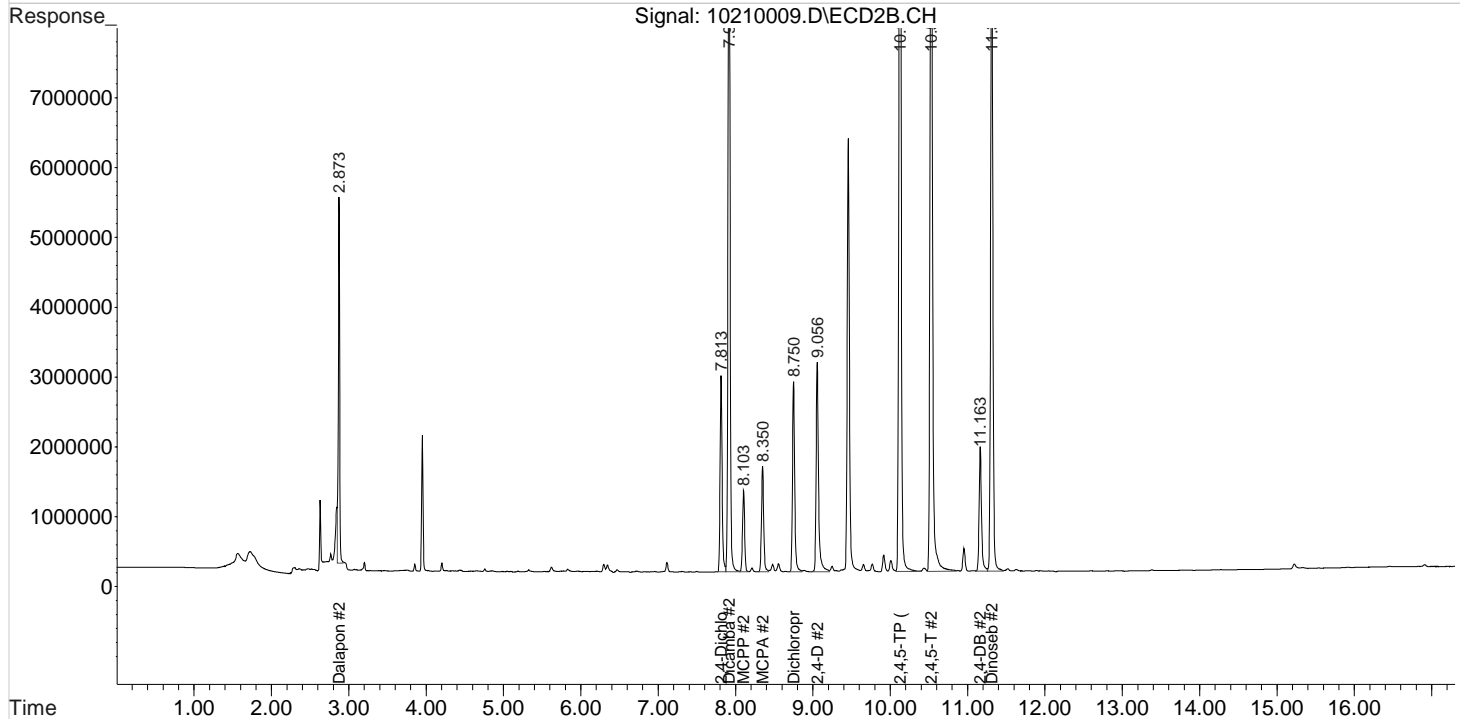
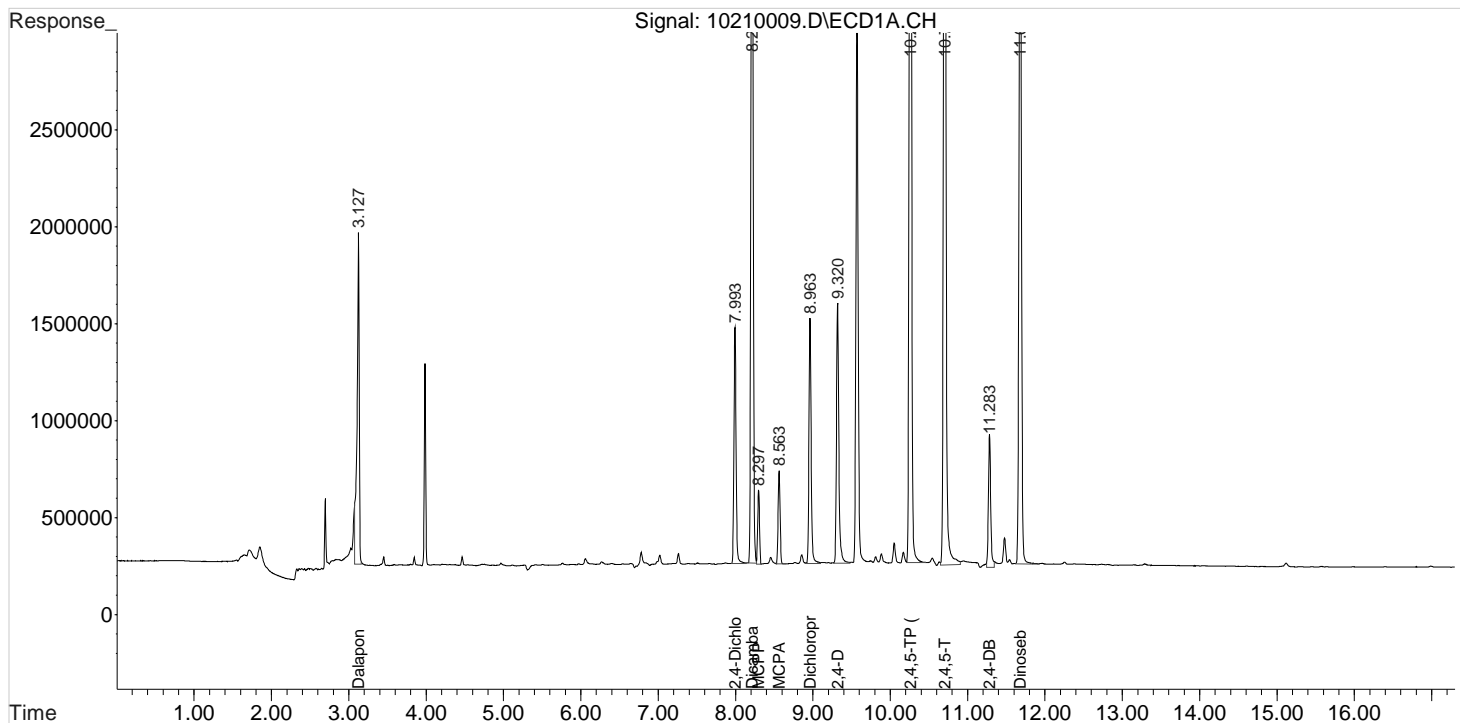
Data File : J:\gc24\data\102120\10210009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:44 pm
Sample : PENTA2-15B 150PB
Misc :

Vial: 8
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:22:31 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:20:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

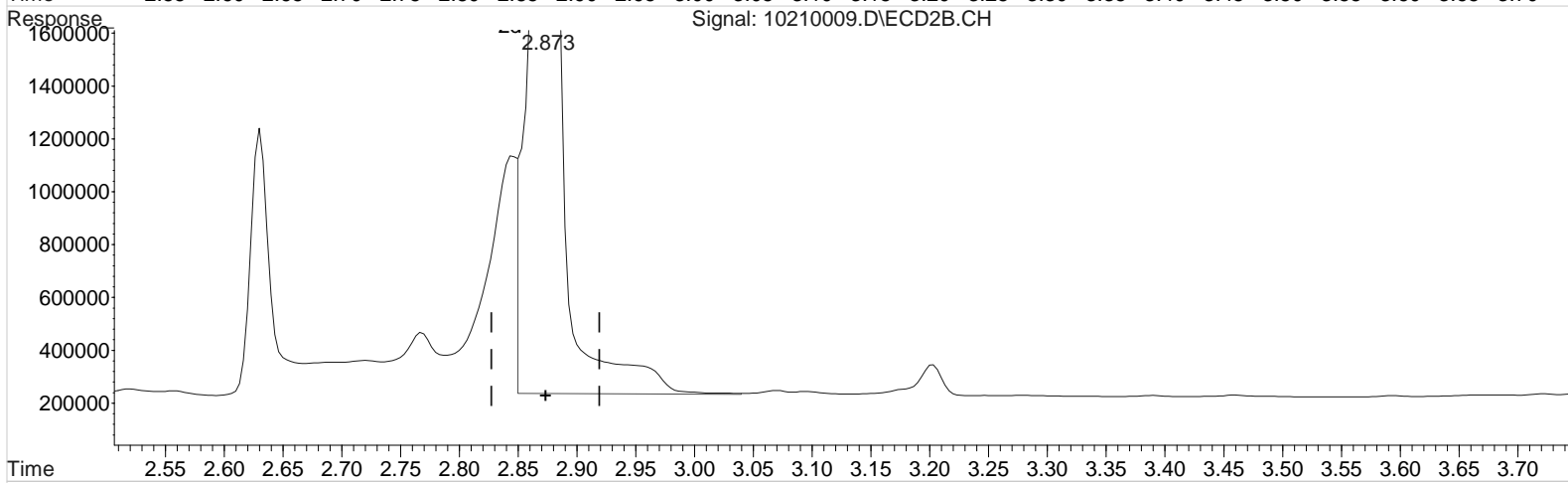
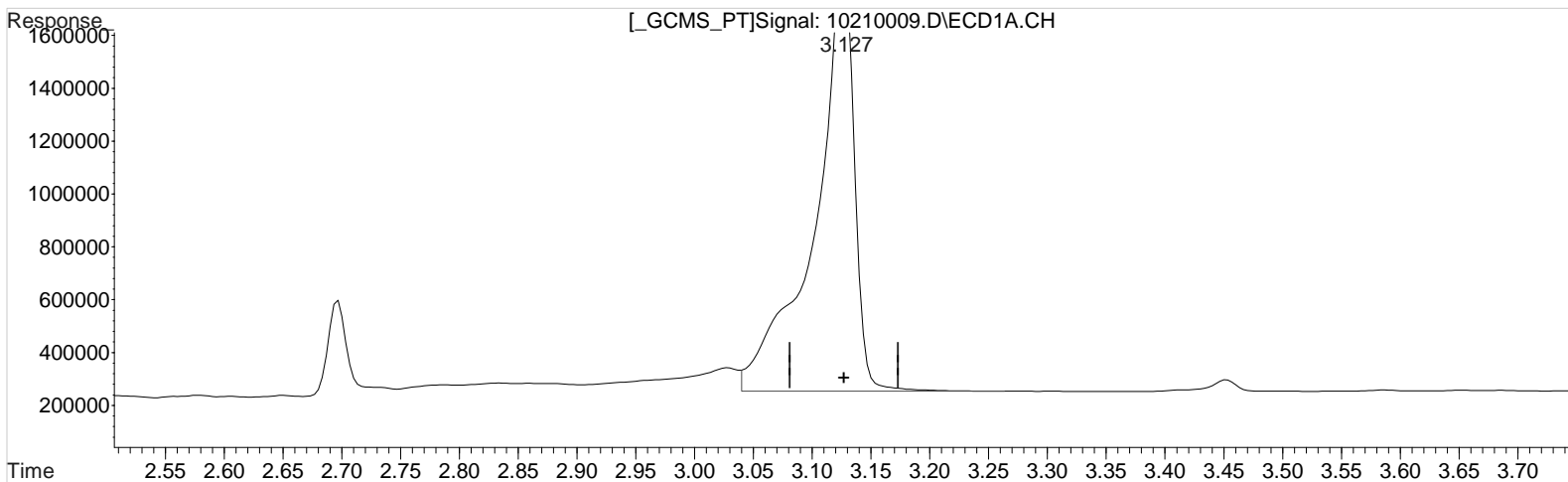
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2
Signal #1 Info : 0.25 mm
Signal #2 Phase: ZB-XLB-HT
Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\102120\10210009.D Vial: 8
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:44 pm Operator: UA
Sample : PENTA2-15B 150PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:21:21 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:20:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.127min 160.523 ppb
response 3755373

Manual Integration:
Before
10/21/20

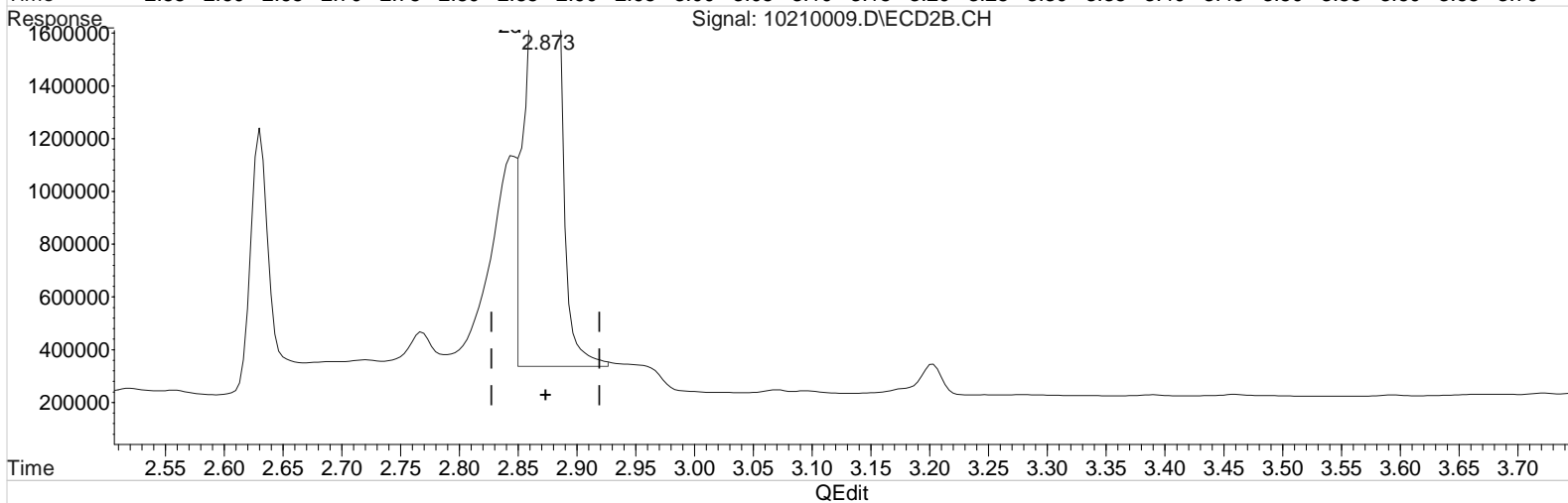
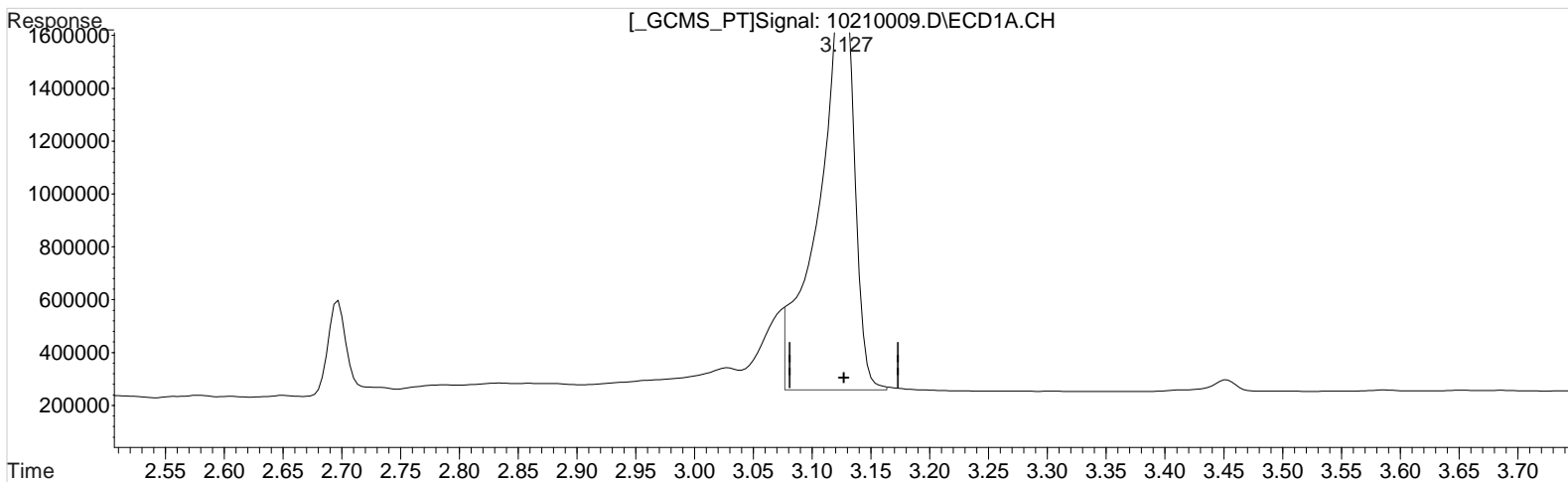
(1) Dalapon #2 (m)
2.873min 151.774 ppb
response 7152678

(+) = Expected Retention Time

Data File : J:\gc24\data\102120\10210009.D Vial: 8
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:44 pm Operator: UA
Sample : PENTA2-15B 150PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:21:21 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:20:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.127min 139.287 ppb m
response 3258567

Manual Integration:
After
Baseline/Shoulder
10/21/20

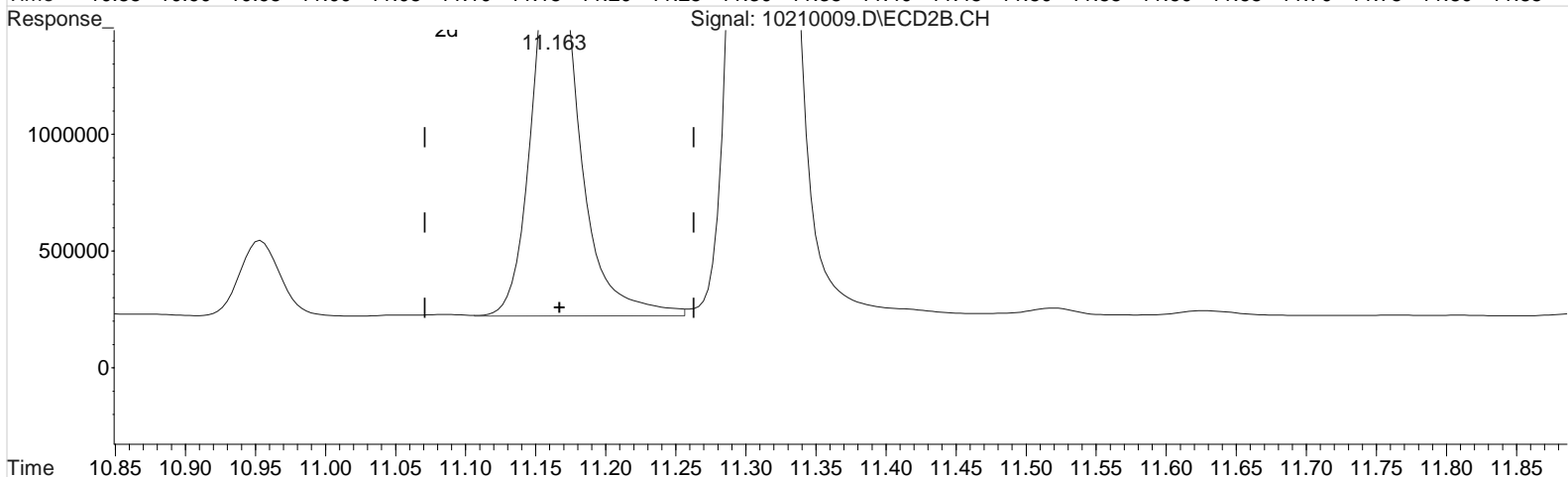
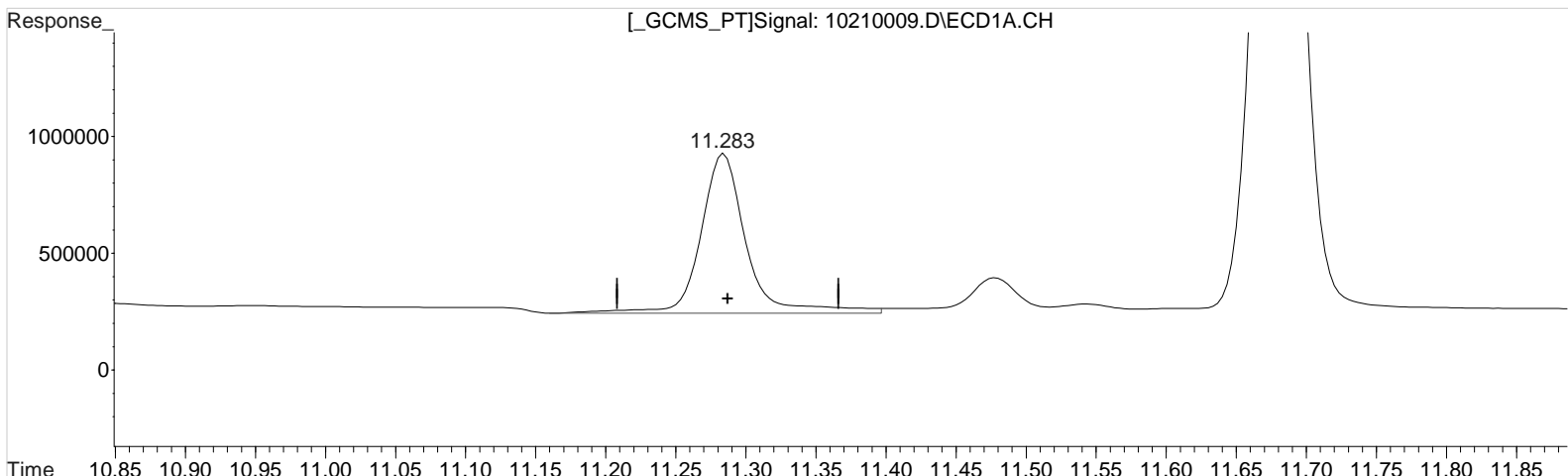
(1) Dalapon #2 (m)
2.873min 135.187 ppb m
response 6370947

(+) = Expected Retention Time

Data File : J:\gc24\data\102120\10210009.D Vial: 8
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:44 pm Operator: UA
Sample : PENTA2-15B 150PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:21:21 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:20:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



QEdit

(10) 2,4-DB (m)
11.283min 160.143 ppb
response 1557848

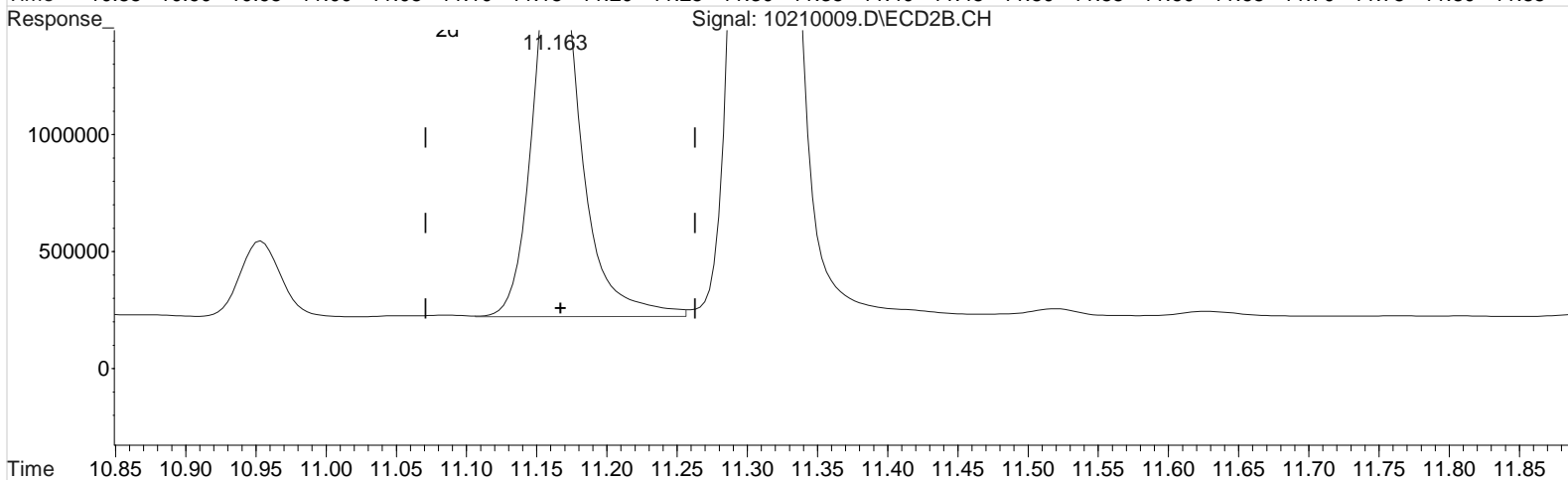
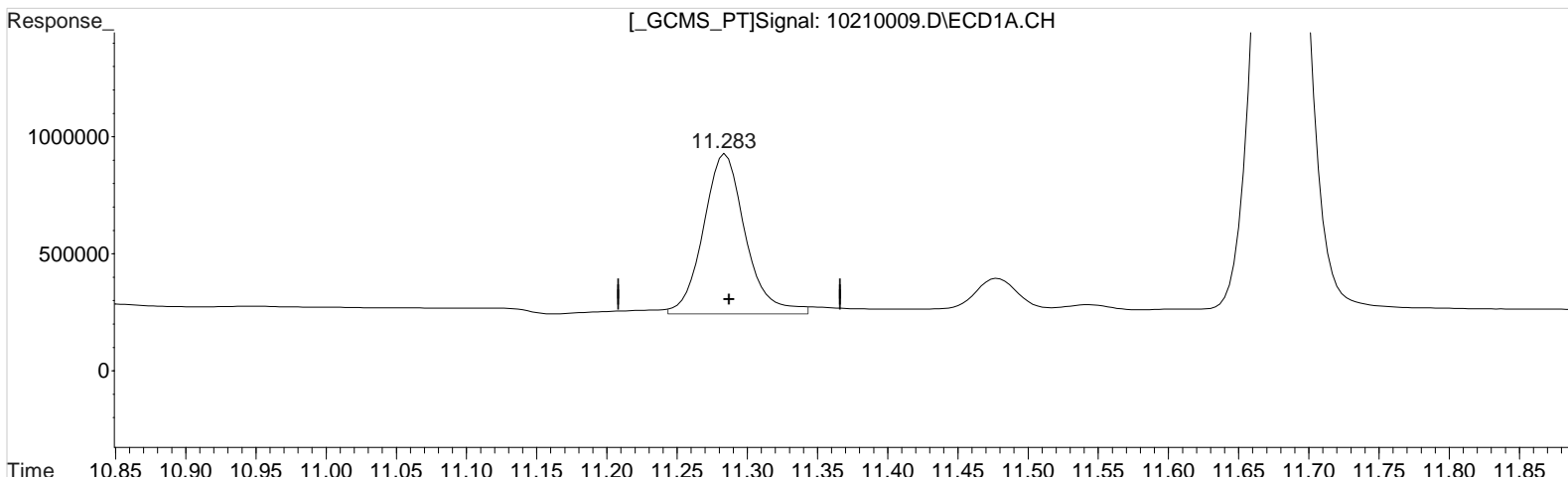
Manual Integration:
Before
10/21/20

(10) 2,4-DB #2 (m)
11.163min 142.303 ppb
response 3879490

Data File : J:\gc24\data\102120\10210009.D Vial: 8
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:44 pm Operator: UA
Sample : PENTA2-15B 150PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:21:21 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:20:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



QEdit

(10) 2,4-DB (m)
11.283min 146.356 ppb m
response 1423732

(10) 2,4-DB #2 (m)
11.163min 142.303 ppb
response 3879490

Manual Integration:
After
Baseline/Shoulder
10/21/20

Data File : J:\gc24\data\102120\10210010.D Vial: 9
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 21 Oct 2020 4:08 pm Operator: UA
 Sample : PENTA2-15C 175PB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Oct 21 17:20:38 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:19:22 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.993	7.813	2673899	6019072	154.374	155.532
Target Compounds						
1) m Dalapon	3.126	2.873	3756341	7607536	161.174m	162.479m
3) m Dicamba	8.213	7.916	11056277	23365839	162.598	163.645
4) m MCPP	8.300	8.106	732283	2515897	16313.328	15589.638
5) m MCPA	8.563	8.353	977526	3389231	16169.886	15560.846
6) m Dichloroprop	8.963	8.749	2846415	6241057	162.675	162.314
7) m 2,4-D	9.320	9.056	3276369	7528670	163.538	161.603
8) m 2,4,5-TP ...	10.260	10.129	15378740	32362961	166.306	165.616
9) m 2,4,5-T	10.703	10.529	13208642	30332986	164.413	164.939
10) m 2,4-DB	11.283	11.163	1631284	4482448	168.722m	163.801
11) m Dinoseb	11.683	11.313	9738174	21149943	164.104	163.966

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

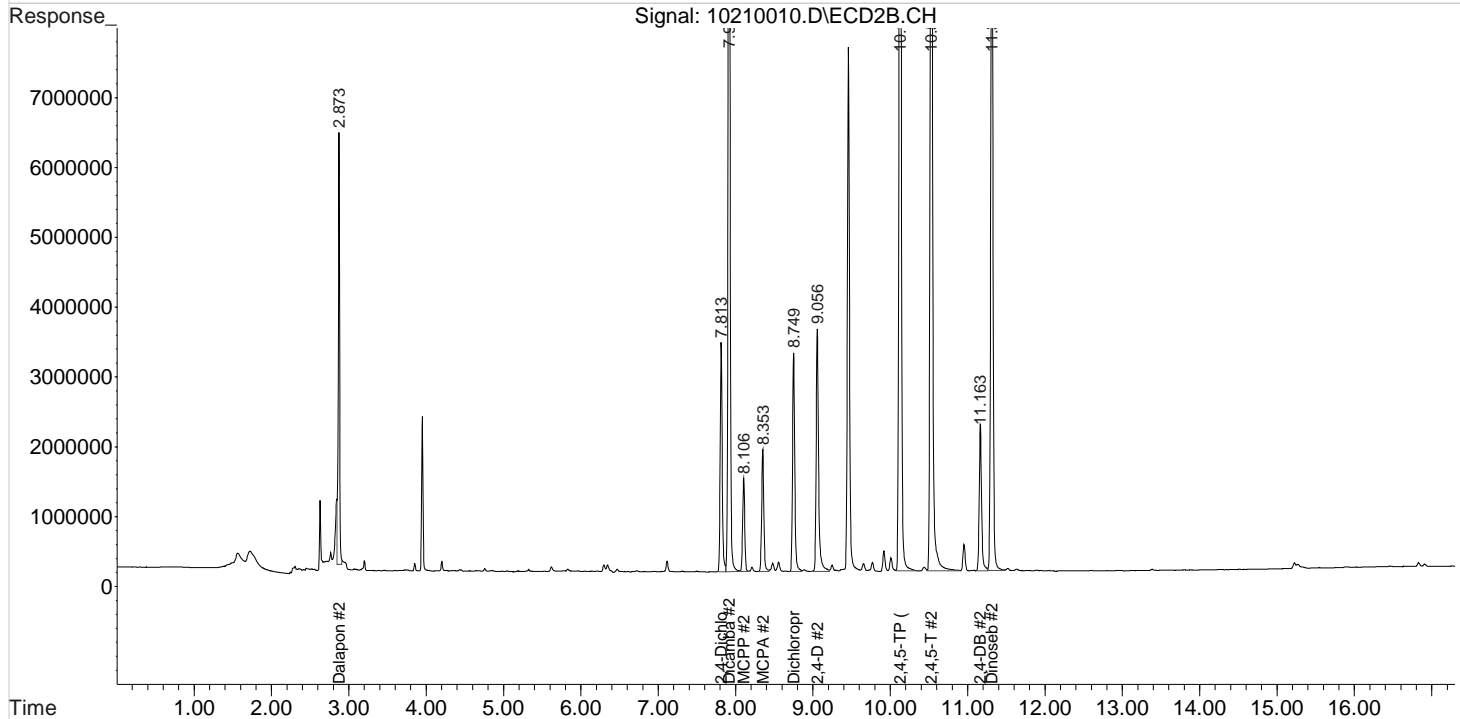
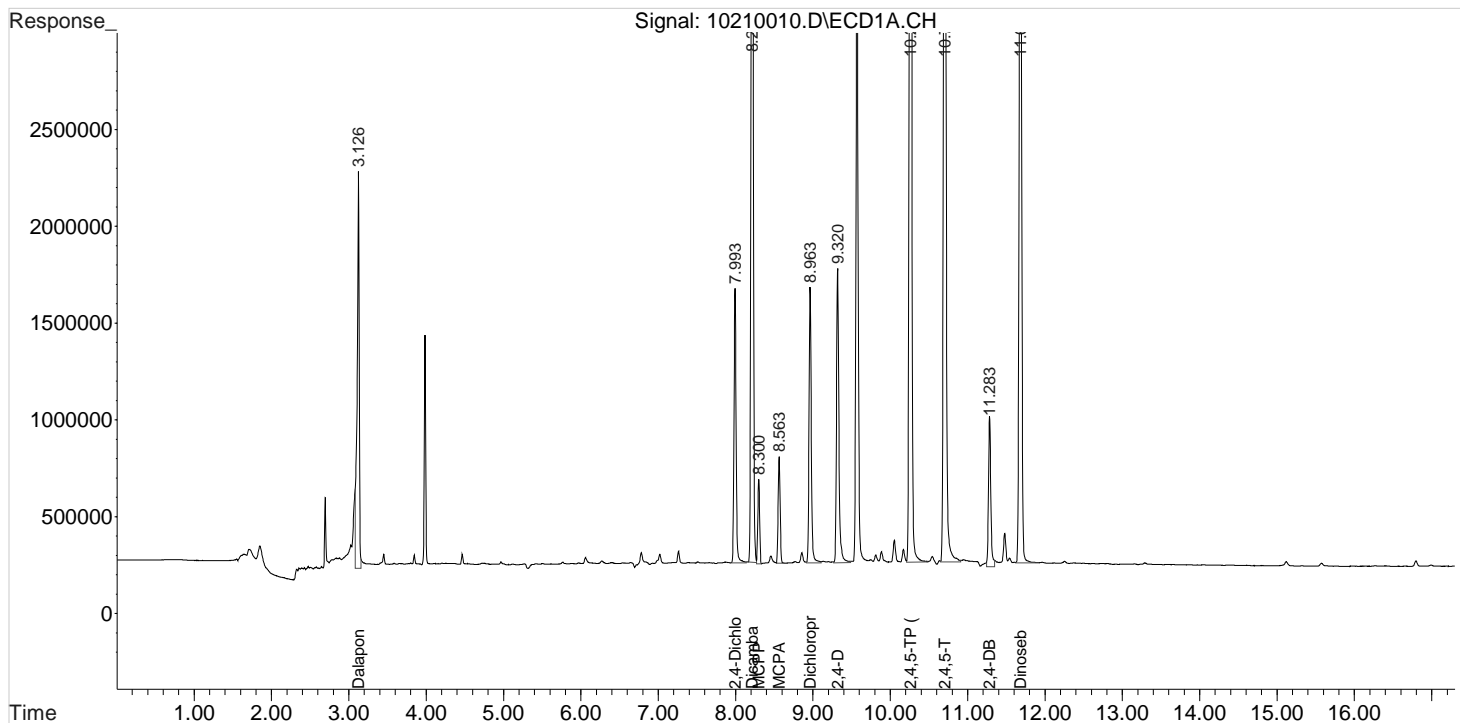
Data File : J:\gc24\data\102120\10210010.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:08 pm
Sample : PENTA2-15C 175PB
Misc :

Vial: 9
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:20:38 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:19:22 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

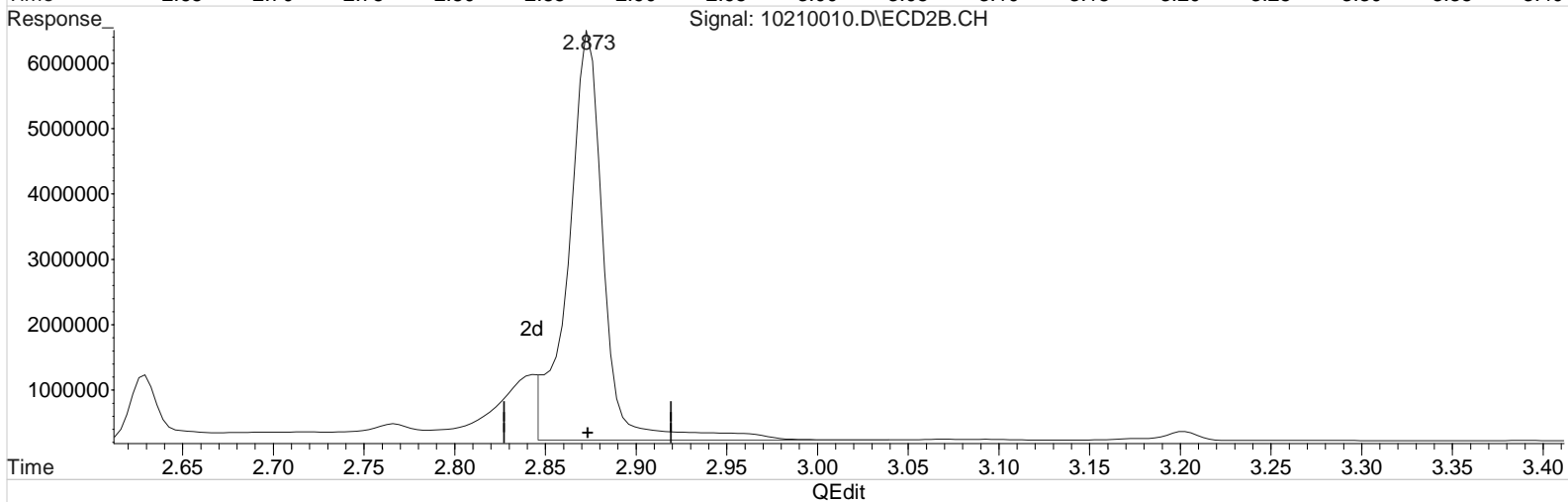
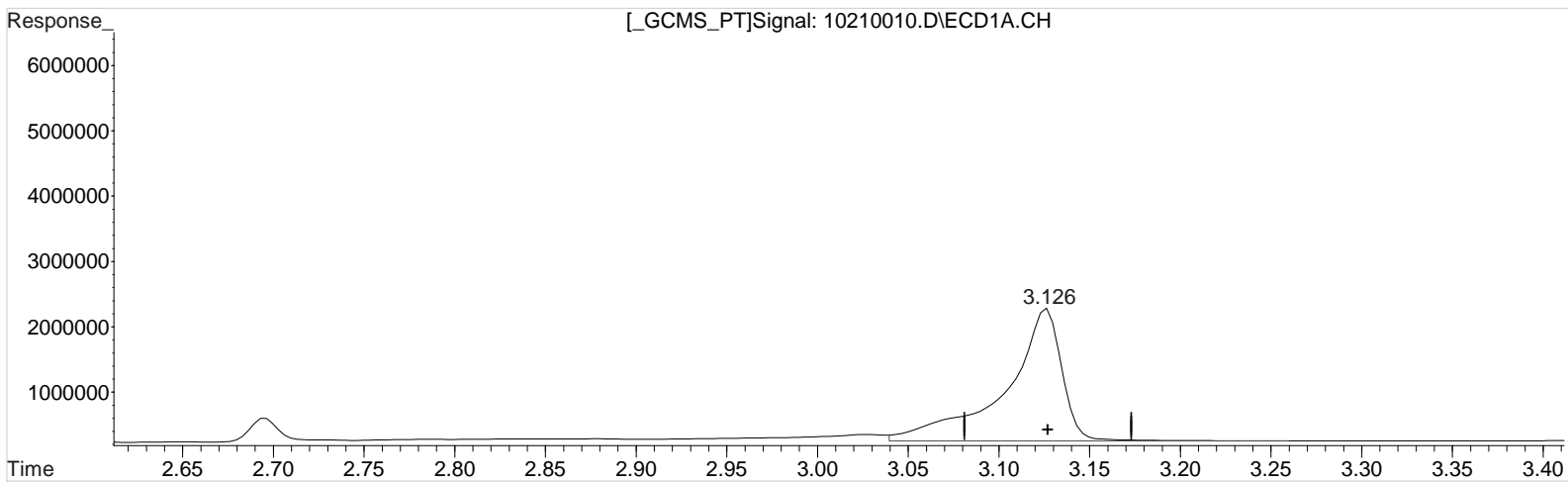
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\102120\10210010.D Vial: 9
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:08 pm Operator: UA
Sample : PENTA2-15C 175PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:19:31 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:19:22 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.126min 186.524 ppb
response 4347148

Manual Integration:
Before
10/21/20

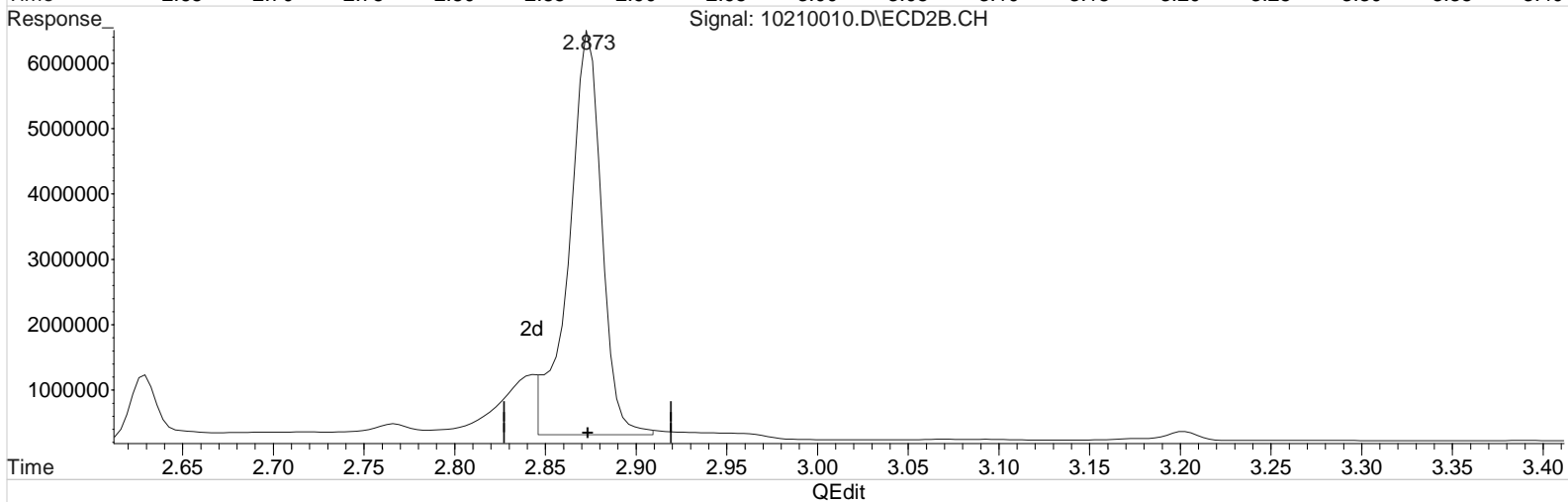
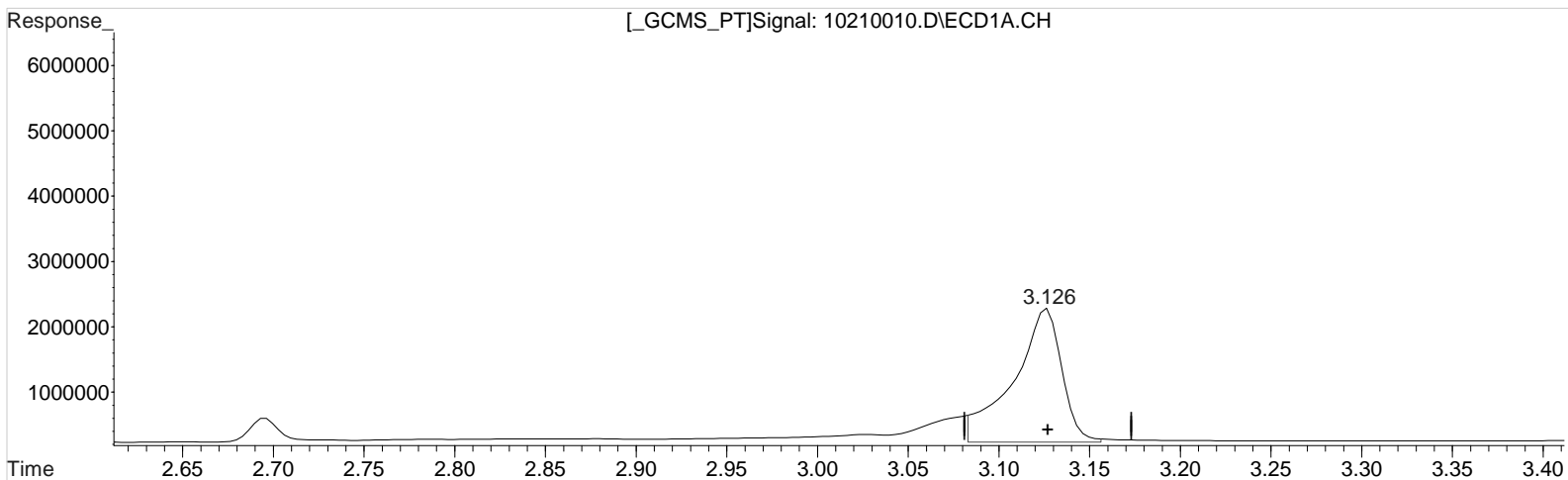
(1) Dalapon #2 (m)
2.873min 178.616 ppb
response 8363091

(+) = Expected Retention Time

Data File : J:\gc24\data\102120\10210010.D Vial: 9
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:08 pm Operator: UA
Sample : PENTA2-15C 175PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:19:31 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:19:22 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.126min 161.174 ppb m
response 3756341

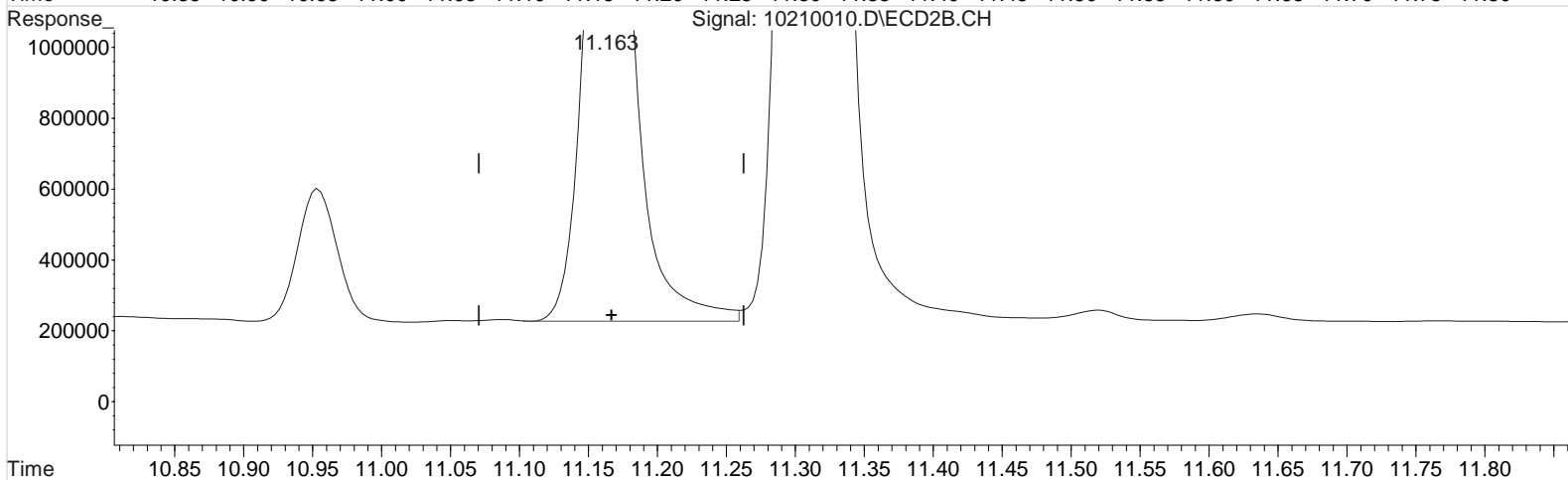
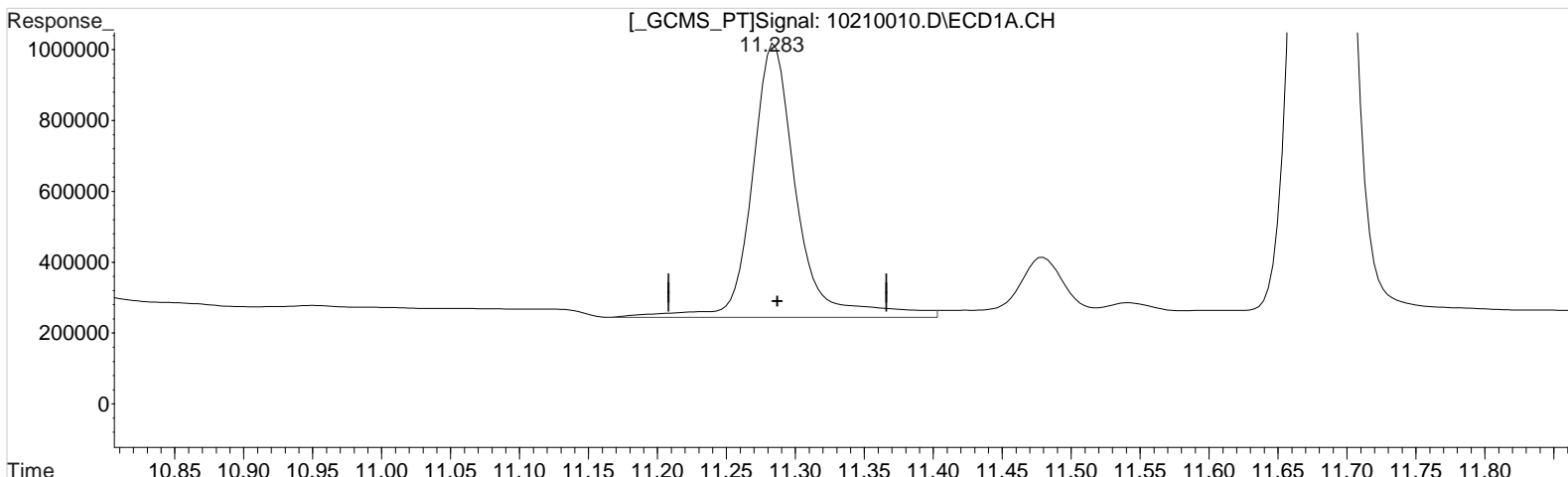
Manual Integration:
After
Baseline/Shoulder
10/21/20

(1) Dalapon #2 (m)
2.873min 162.479 ppb m
response 7607536

Data File : J:\gc24\data\102120\10210010.D Vial: 9
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:08 pm Operator: UA
Sample : PENTA2-15C 175PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:19:31 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:19:22 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(10) 2,4-DB (m)
11.283min 180.728 ppb
response 1747369

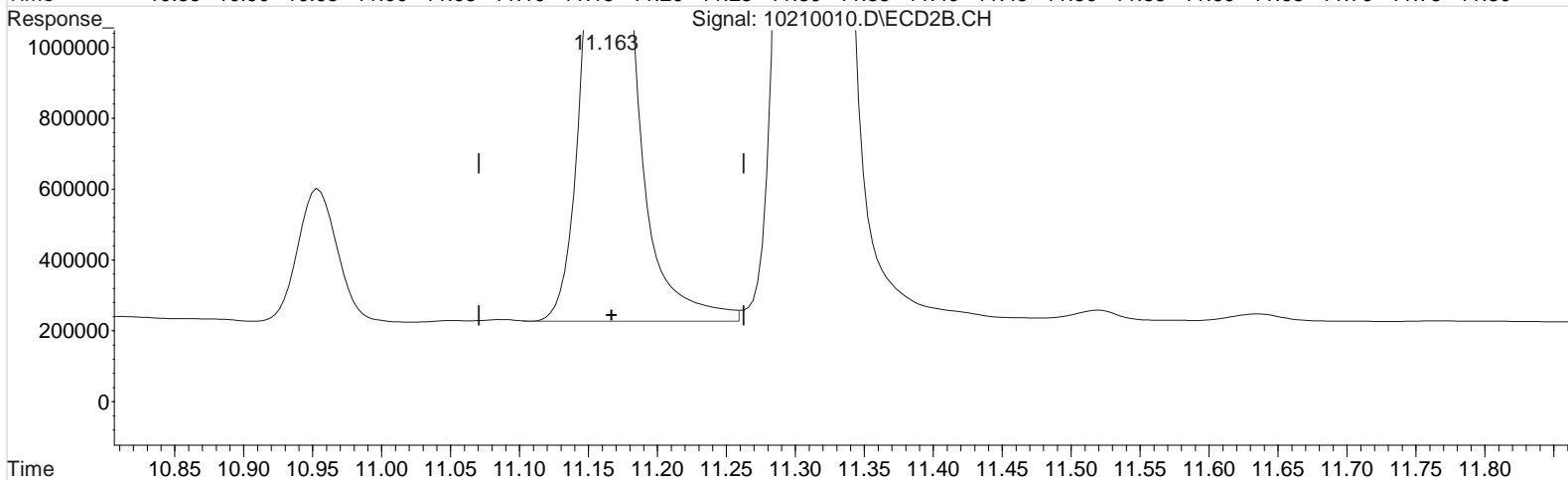
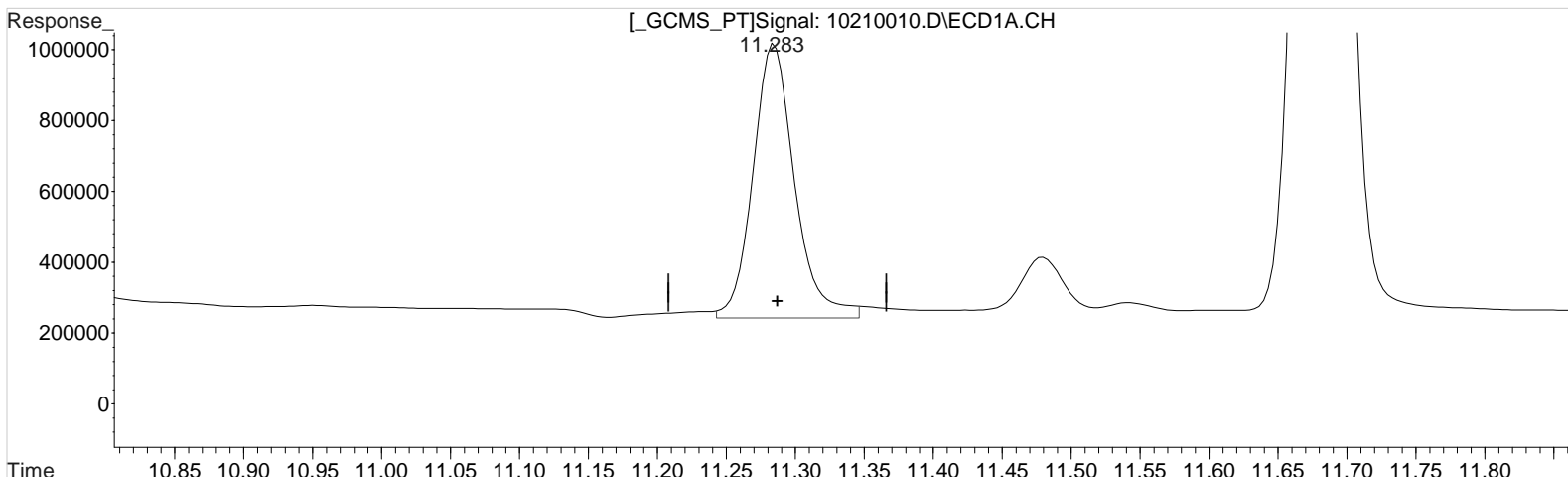
Manual Integration:
Before
10/21/20

(10) 2,4-DB #2 (m)
11.163min 163.801 ppb
response 4482448

Data File : J:\gc24\data\102120\10210010.D Vial: 9
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:08 pm Operator: UA
Sample : PENTA2-15C 175PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:19:31 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:19:22 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(10) 2,4-DB (m)
11.283min 168.722 ppb m
response 1631284

(10) 2,4-DB #2 (m)
11.163min 163.801 ppb
response 4482448

Manual Integration:
After
Baseline/Shoulder
10/21/20

Data File : J:\gc24\data\102120\10210011.D Vial: 10
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 21 Oct 2020 4:32 pm Operator: UA
 Sample : PENTA2-15D 200PB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Oct 21 17:19:09 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:16:23 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.991	7.814	3011902	6830371	167.857	172.784
Target Compounds						
1) m Dalapon	3.124	2.874	4166081	8620213	175.503m	186.129m
3) m Dicamba	8.214	7.914	12614321	26816087	183.029	187.560
4) m MCPP	8.298	8.104	844322	2817400	18845.702	16314.999
5) m MCPA	8.564	8.351	1113618	3800297	18157.111	16358.900
6) m Dichloroprop	8.964	8.751	3178809	7078599	175.122	179.686
7) m 2,4-D	9.321	9.057	3668350	8558209	178.402	179.541
8) m 2,4,5-TP ...	10.261	10.127	17460527	37116608	187.555	189.785
9) m 2,4,5-T	10.704	10.531	15065337	34693502	185.502	187.719
10) m 2,4-DB	11.288	11.167	1779525	5143484	179.055m	186.595
11) m Dinoseb	11.684	11.317	11030037	24155457	182.888	185.603

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

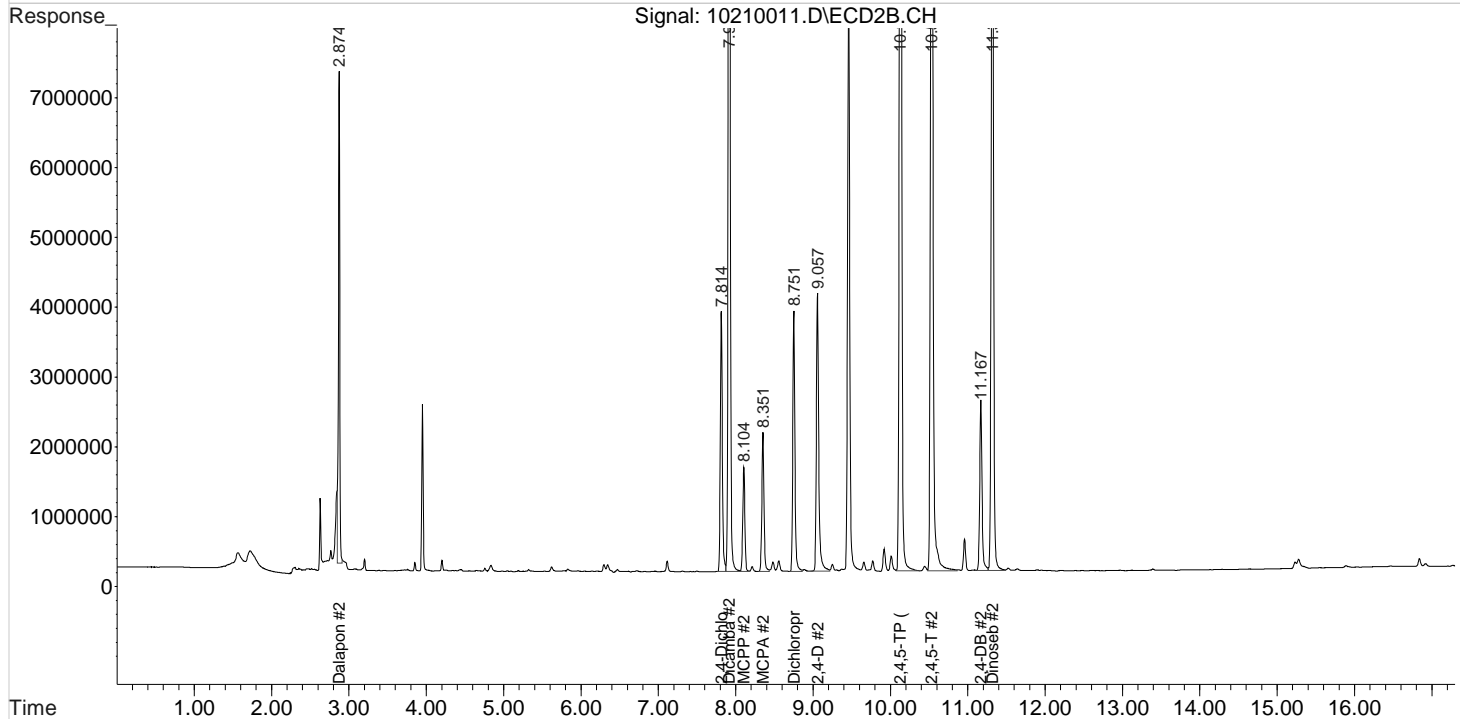
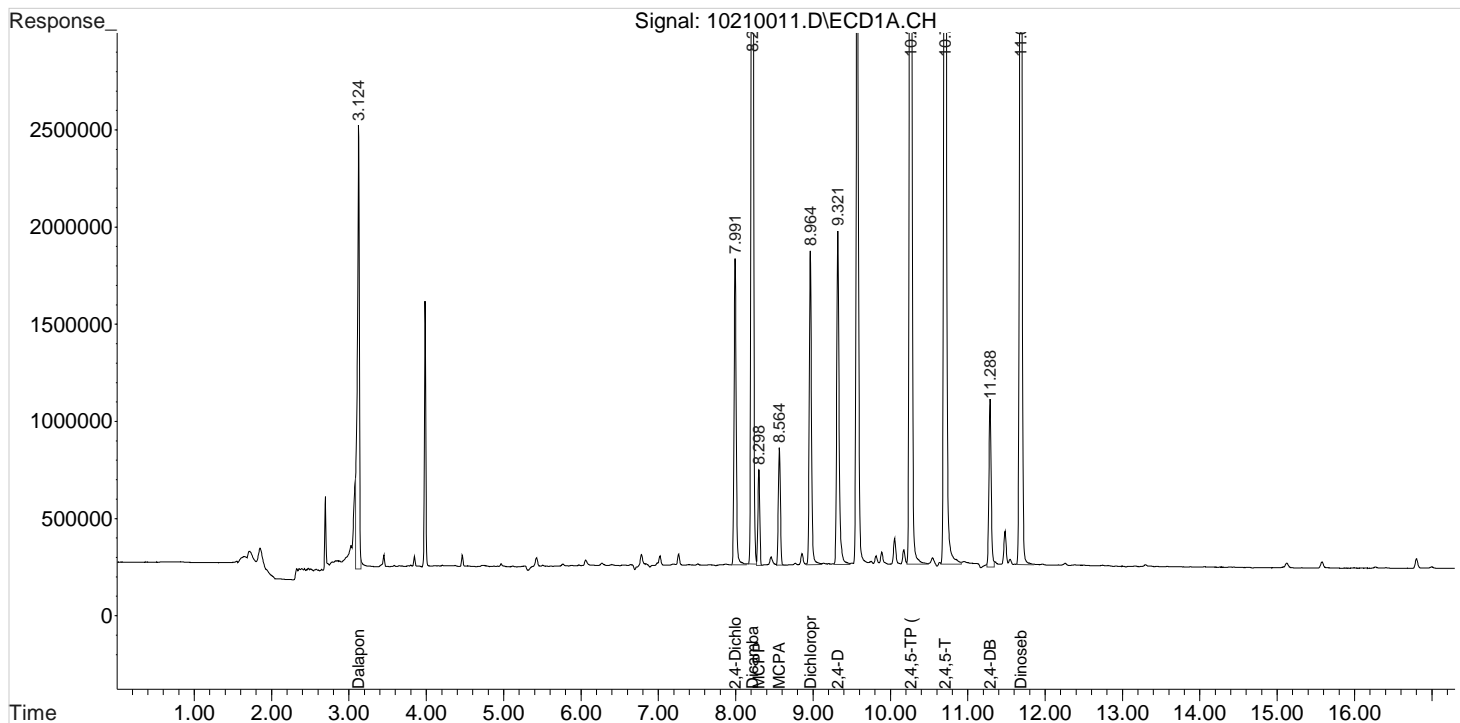
Data File : J:\gc24\data\102120\10210011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:32 pm
Sample : PENTA2-15D 200PB
Misc :

Vial: 10
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:19:09 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:16:23 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

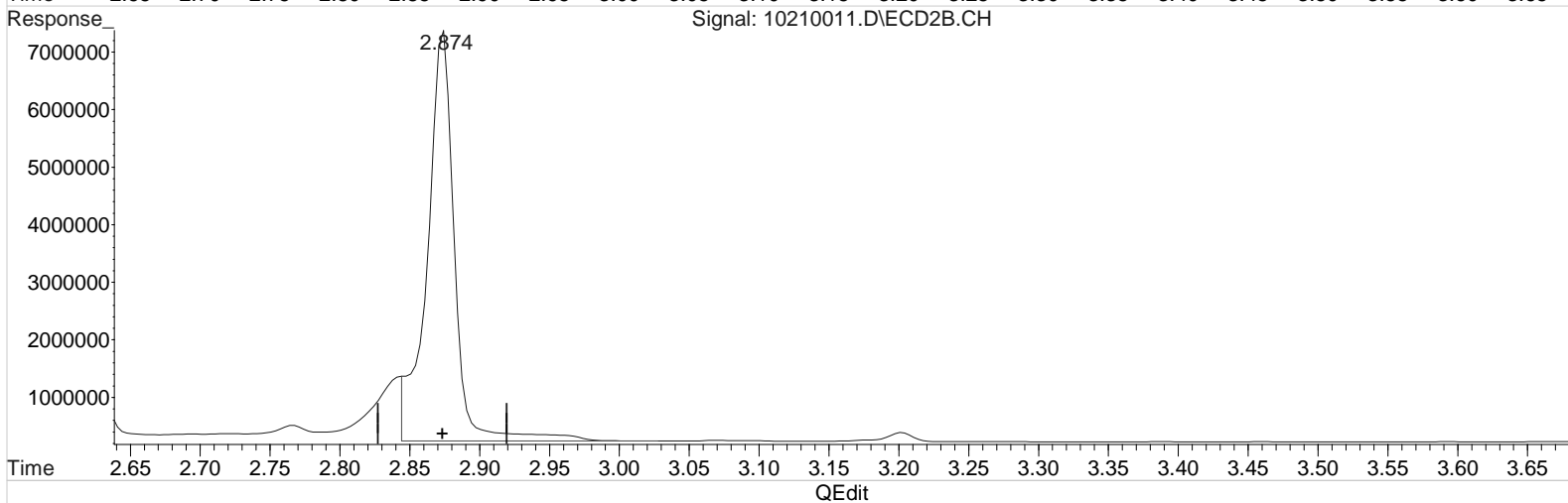
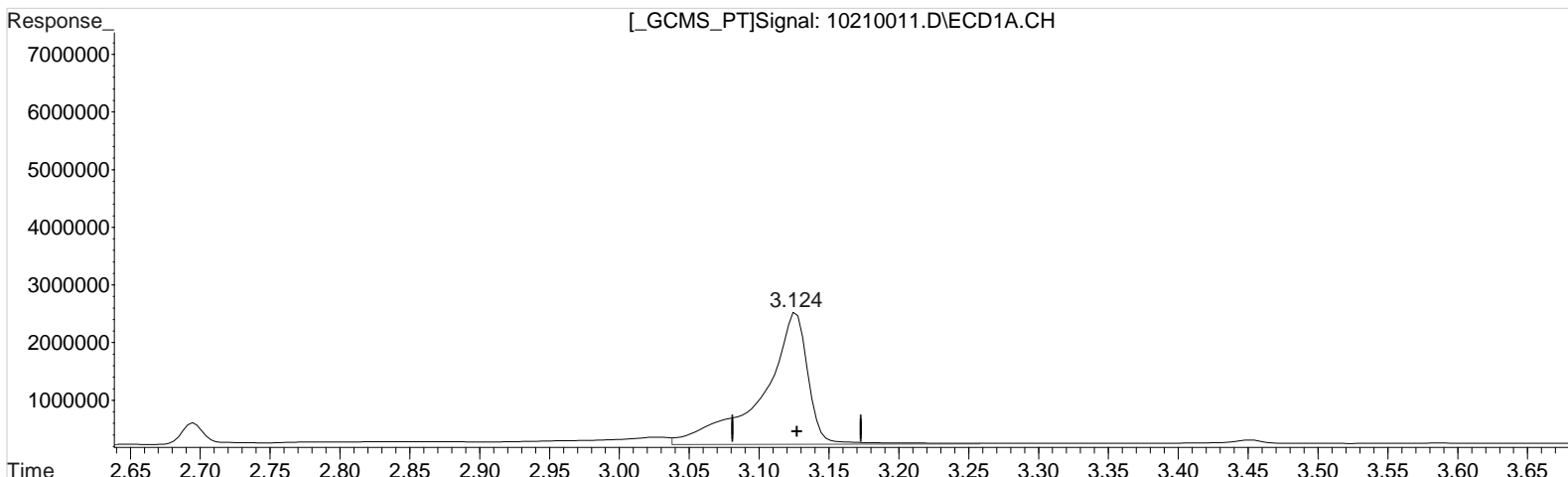
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\102120\10210011.D Vial: 10
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:32 pm Operator: UA
Sample : PENTA2-15D 200PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:17:43 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:16:23 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)

3.124min 217.220 ppb

response 5156366

Manual Integration:

Before

10/21/20

(1) Dalapon #2 (m)

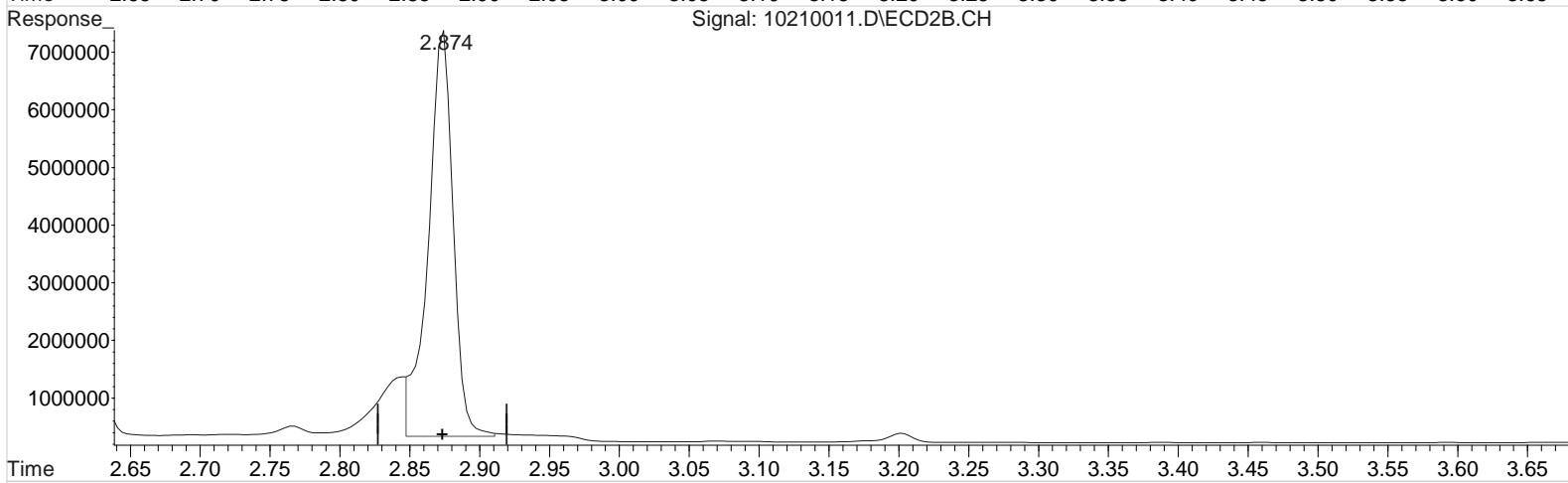
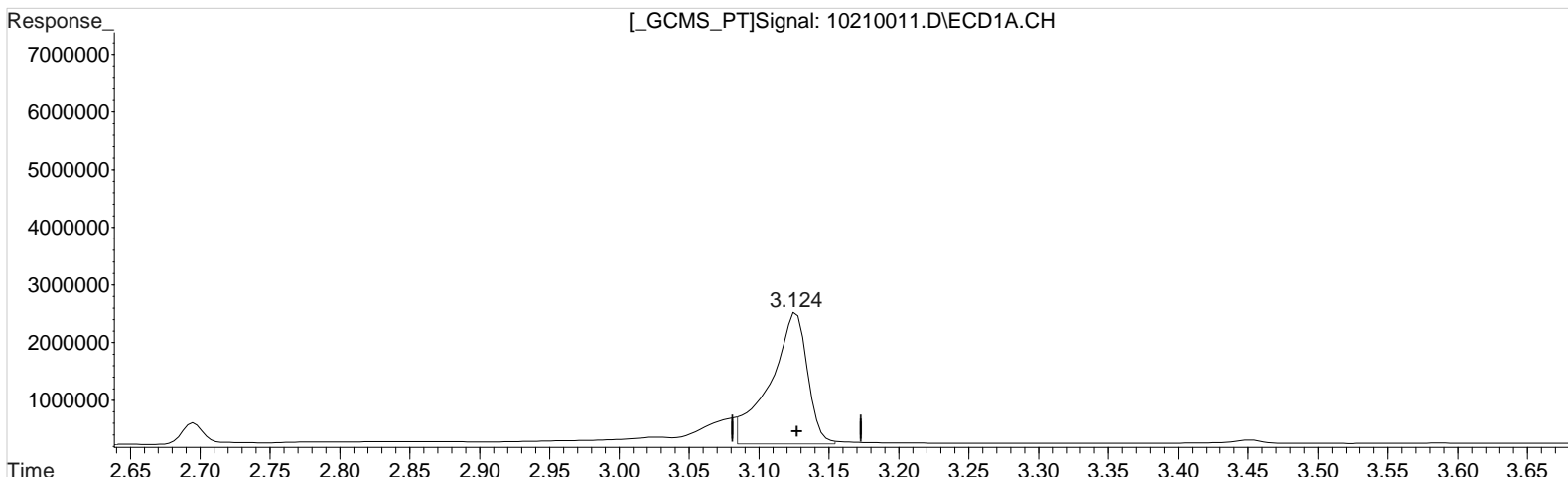
2.874min 208.116 ppb

response 9638480

Data File : J:\gc24\data\102120\10210011.D Vial: 10
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:32 pm Operator: UA
Sample : PENTA2-15D 200PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:17:43 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:16:23 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.124min 175.503 ppb m
response 4166081

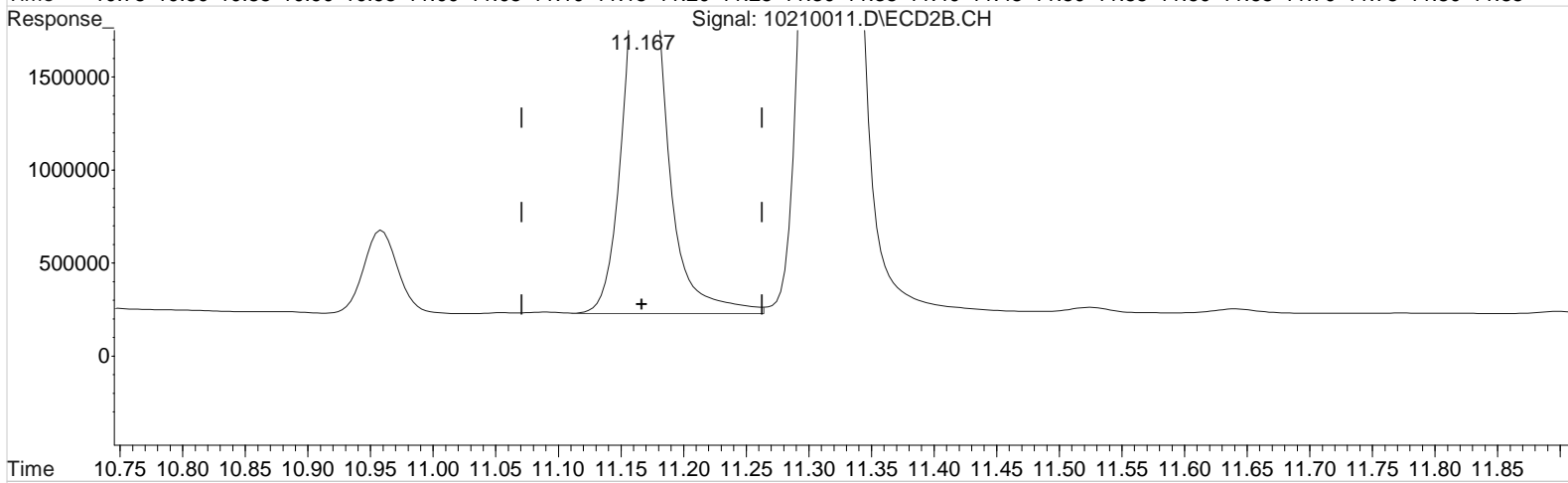
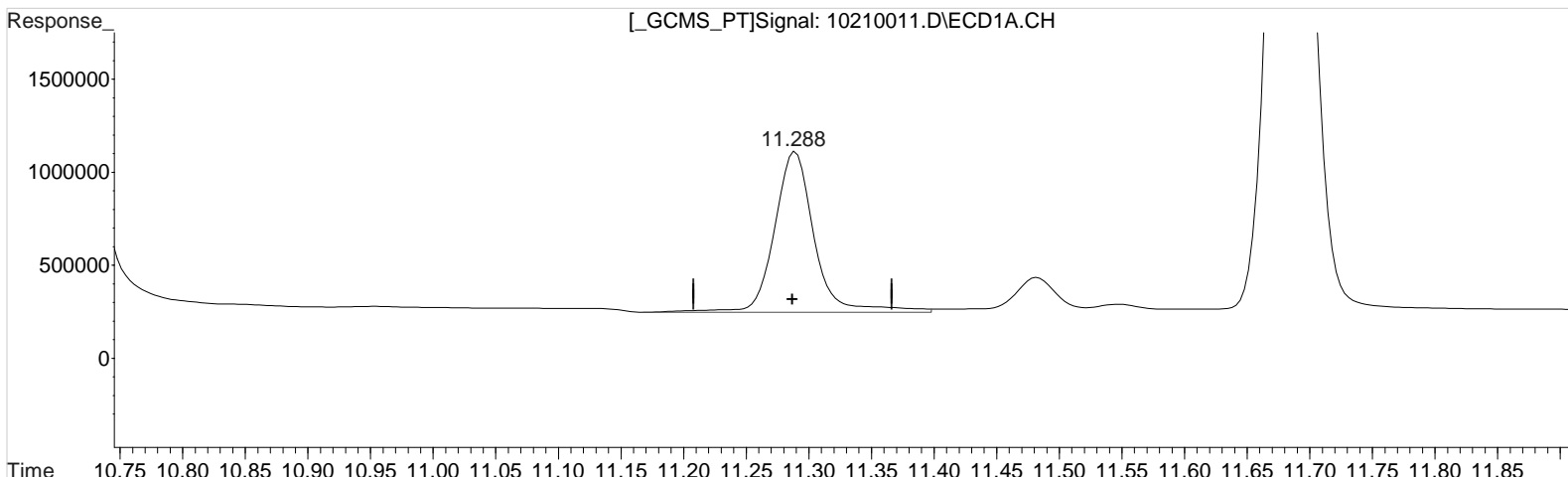
(1) Dalapon #2 (m)
2.874min 186.129 ppb m
response 8620213

Manual Integration:
After
Baseline/Shoulder
10/21/20

Data File : J:\gc24\data\102120\10210011.D Vial: 10
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:32 pm Operator: UA
Sample : PENTA2-15D 200PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:17:43 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:16:23 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(10) 2,4-DB (m)
11.288min 194.607 ppb
response 1934084

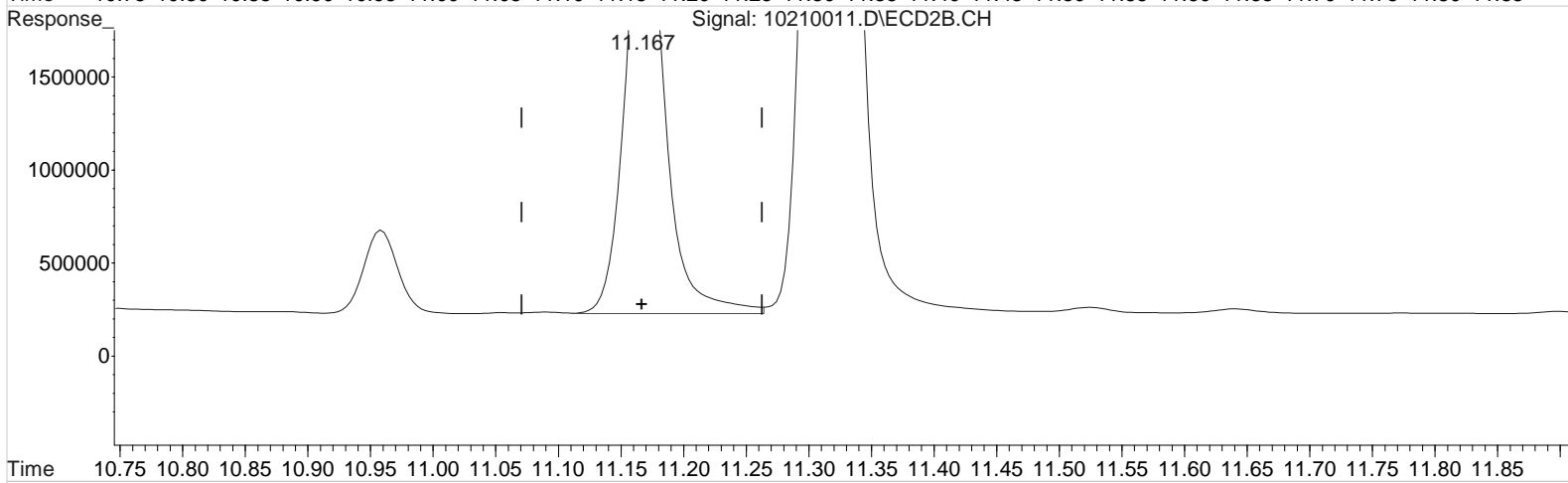
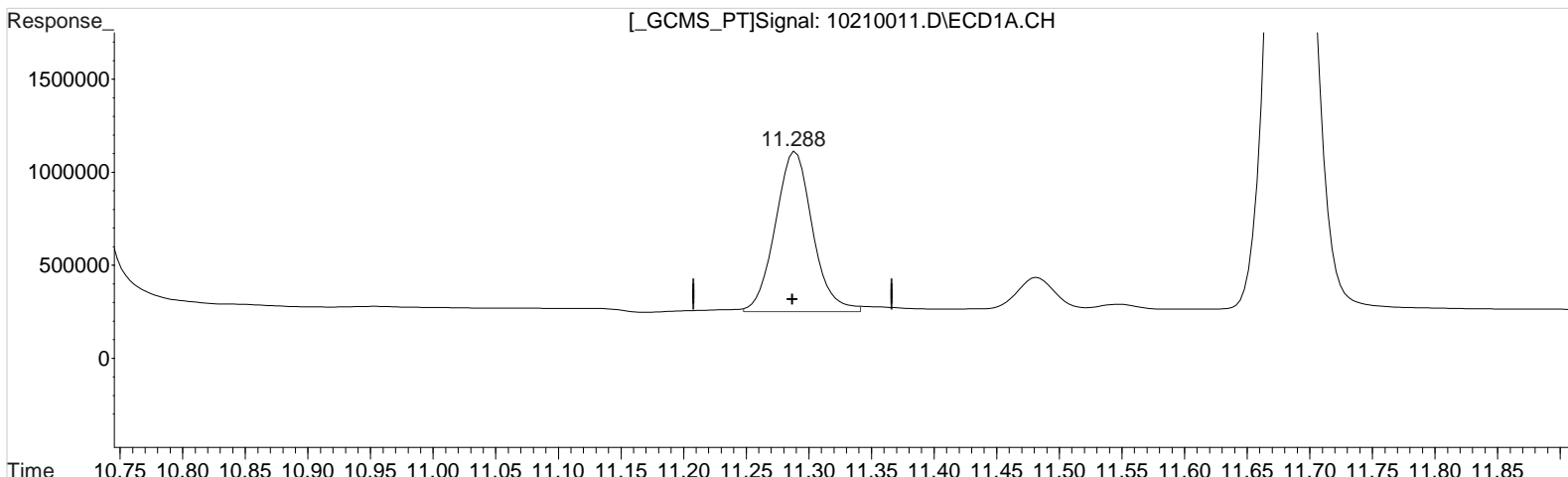
Manual Integration:
Before
10/21/20

(10) 2,4-DB #2 (m)
11.167min 186.595 ppb
response 5143484

Data File : J:\gc24\data\102120\10210011.D Vial: 10
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:32 pm Operator: UA
Sample : PENTA2-15D 200PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:17:43 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:16:23 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(10) 2,4-DB (m)
11.288min 179.055 ppb m
response 1779525

(10) 2,4-DB #2 (m)
11.167min 186.595 ppb
response 5143484

Manual Integration:
After
Baseline/Shoulder
10/21/20

Data File : J:\gc24\data\102120\10210012.D Vial: 11
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 21 Oct 2020 4:56 pm Operator: UA
 Sample : PENTA2-15E ICV 100 PPB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Oct 21 17:34:58 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 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	3.124	2.874	2275140	4637166	93.788m	95.982m
3) m Dicamba	8.214	7.917	6693399	14244119	95.894	96.106
4) m MCPP	8.301	8.107	425850	1671884	9672.717	10136.278
5) m MCPA	8.564	8.354	589571	2253395	10069.096	10030.937
6) m Dichloroprop	8.967	8.754	1609647	3570683	86.318	85.597
7) m 2,4-D	9.324	9.064	1920602	4282415	90.423	83.643
8) m 2,4,5-TP ...	10.264	10.134	8747020	18777316	93.370	92.500
9) m 2,4,5-T	10.711	10.537	8103188	18900875	98.209	98.768
10) m 2,4-DB	11.291	11.174	963718	2763456	93.935	95.240
11) m Dinoseb	11.687	11.320	5877452	12904696	95.003	94.362

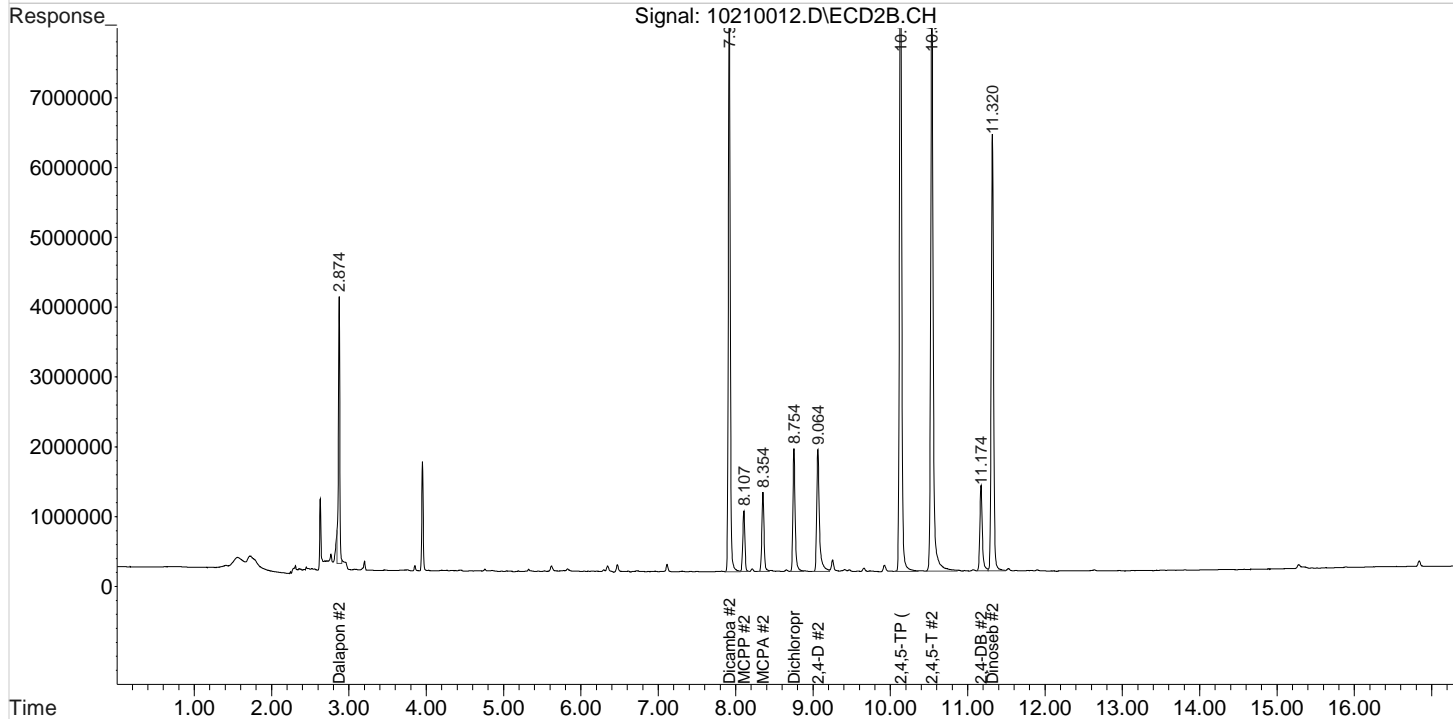
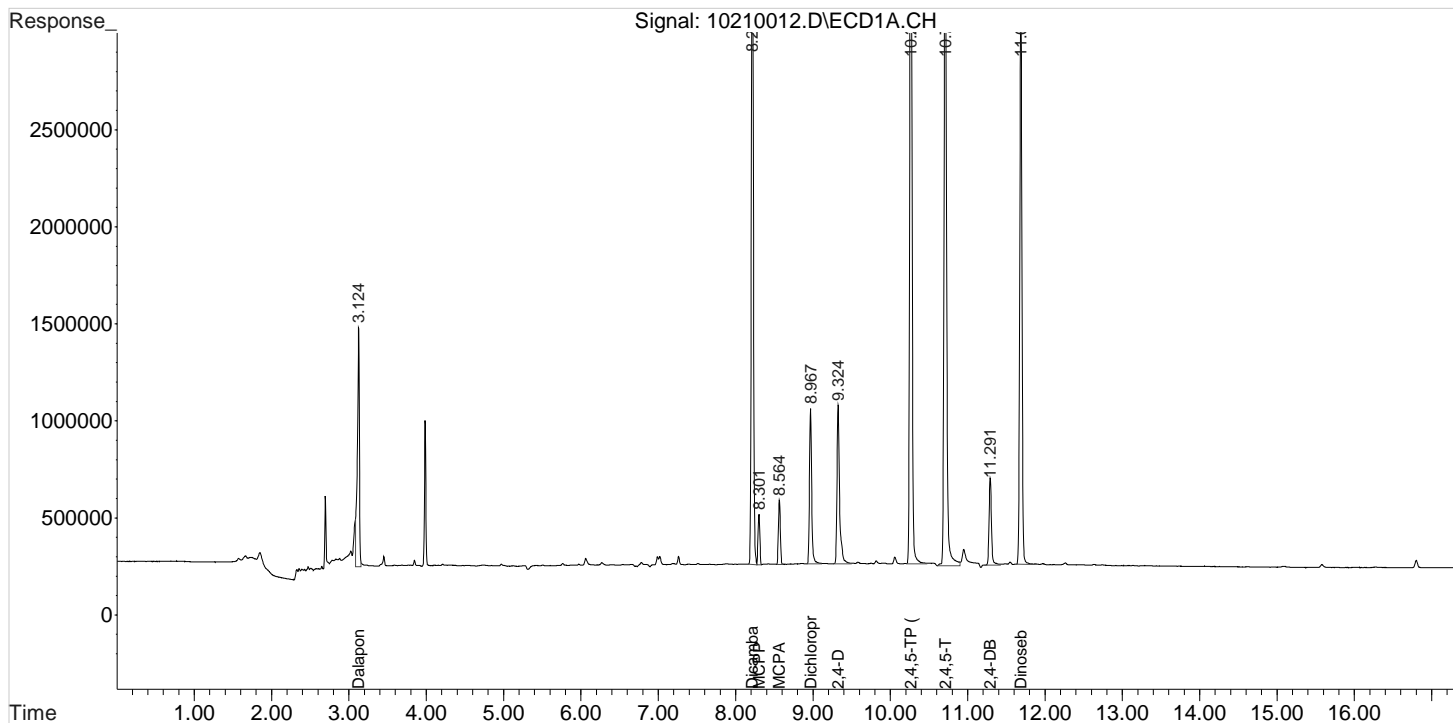
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\gc24\data\102120\10210012.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:56 pm
Sample : PENTA2-15E ICV 100 PPB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:34:58 2020
Quant Results File: 102120_8151.RES

Vial: 11
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

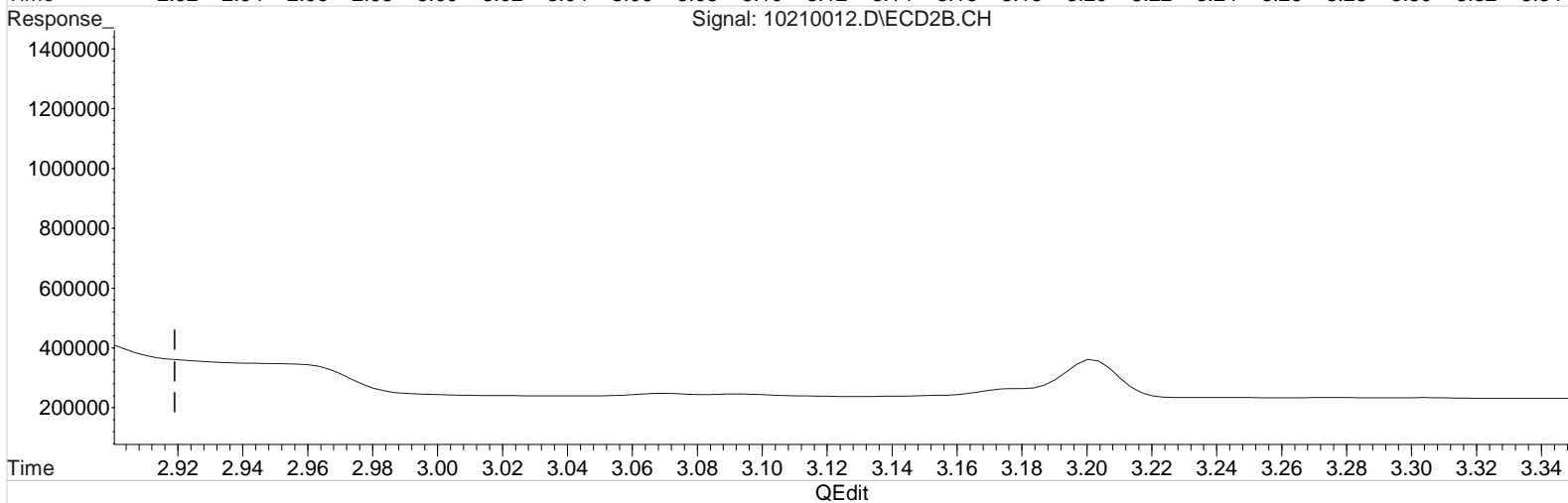
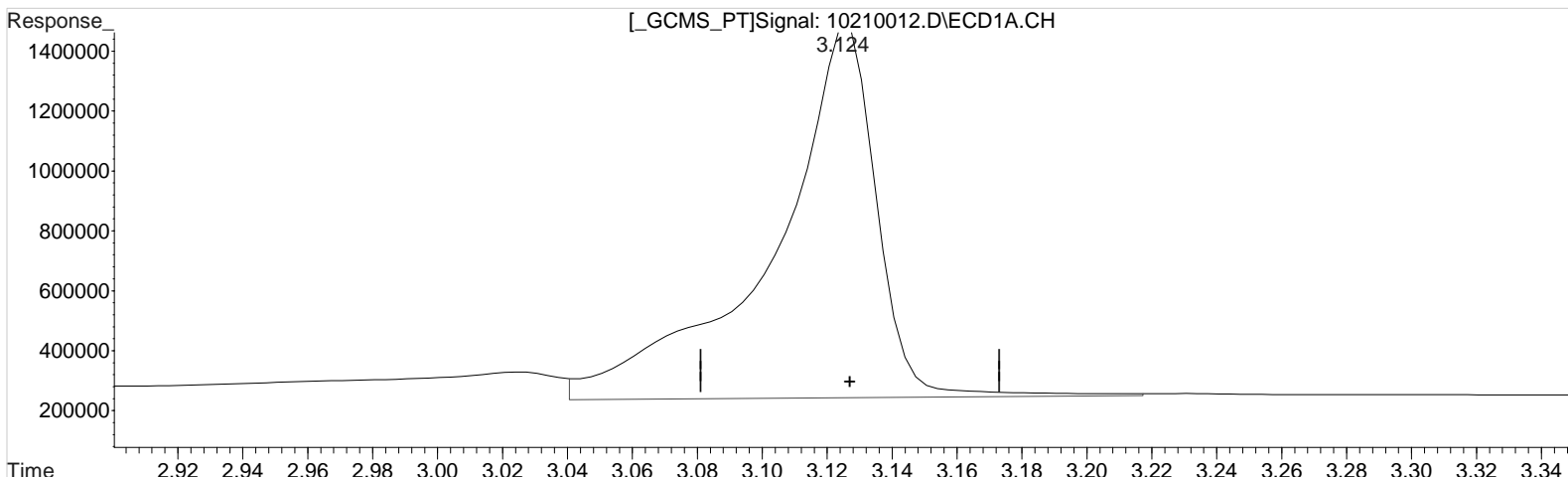
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\102120\10210012.D Vial: 11
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:56 pm Operator: UA
Sample : PENTA2-15E ICV 100 PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:33:07 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.124min 114.147 ppb
response 2769027

Manual Integration:
Before
10/21/20

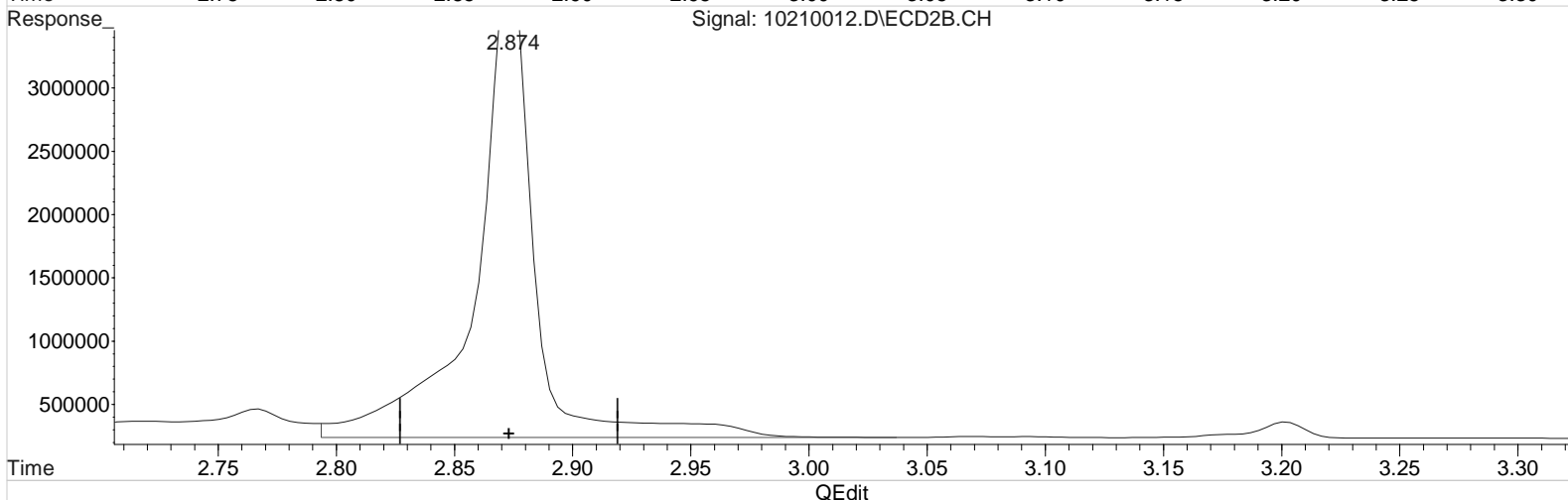
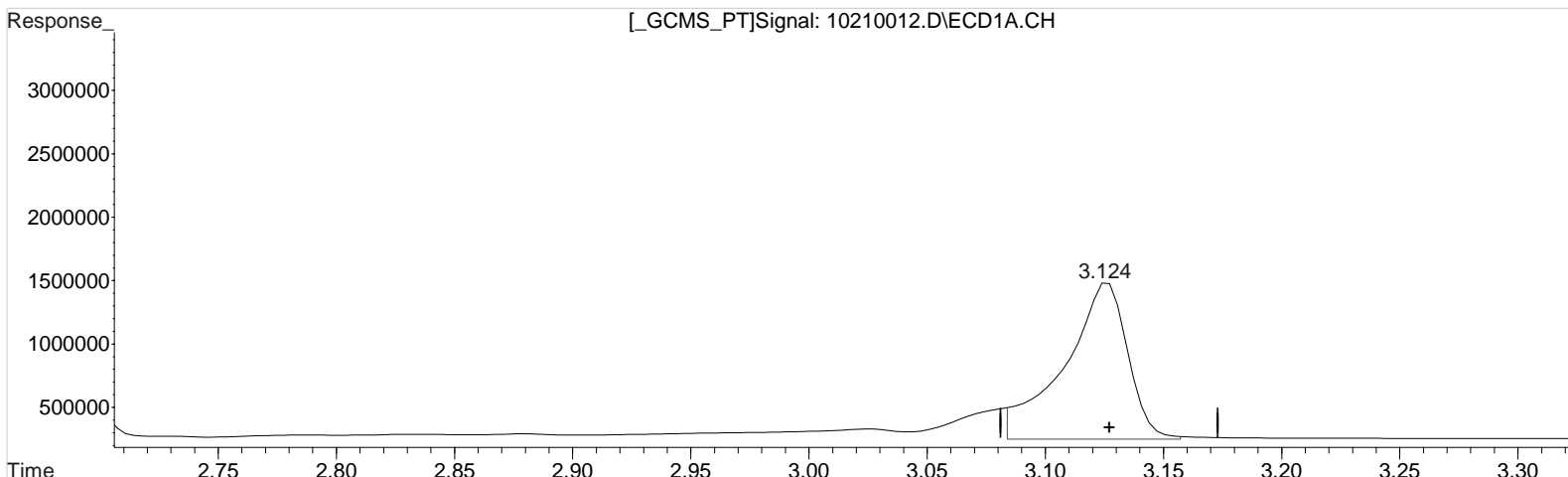
(1) Dalapon #2 (m)
2.874min 131.747 ppb
response 6365052

(+) = Expected Retention Time

Data File : J:\gc24\data\102120\10210012.D Vial: 11
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:56 pm Operator: UA
Sample : PENTA2-15E ICV 100 PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:33:07 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.124min 93.788 ppb m
response 2275140

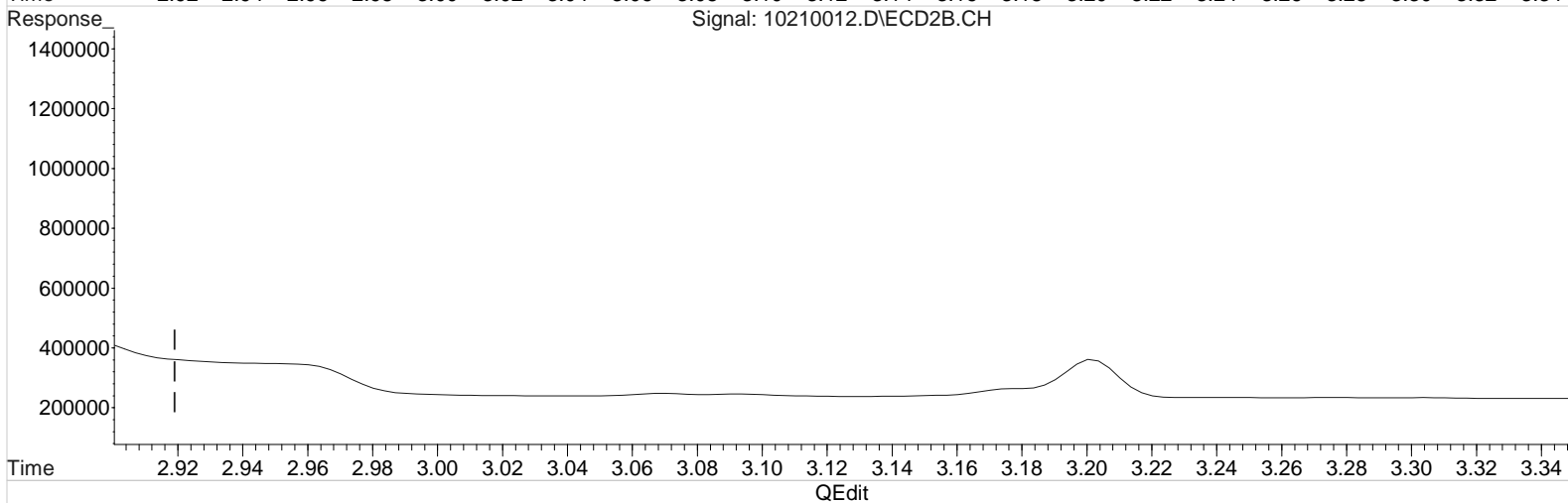
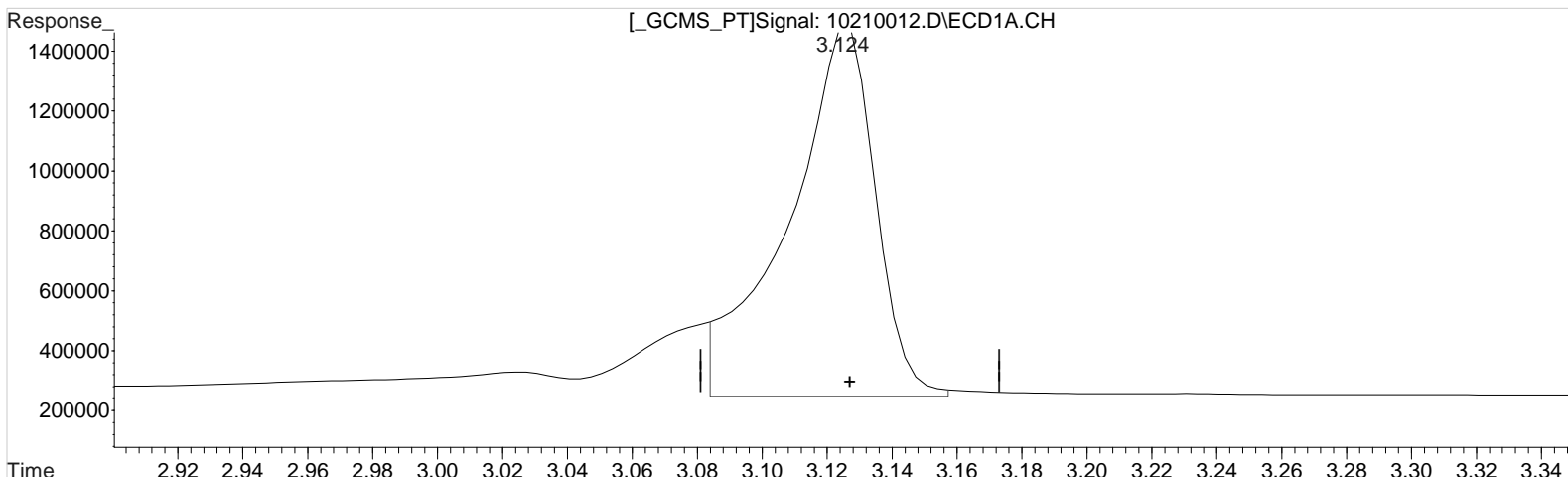
Manual Integration:
Before
10/21/20

(1) Dalapon #2 (m)
2.874min 131.747 ppb
response 6365052

Data File : J:\gc24\data\102120\10210012.D Vial: 11
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 21 Oct 2020 4:56 pm Operator: UA
 Sample : PENTA2-15E ICV 100 PPB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Oct 21 17:33:07 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
 3.124min 93.788 ppb m
 response 2275140

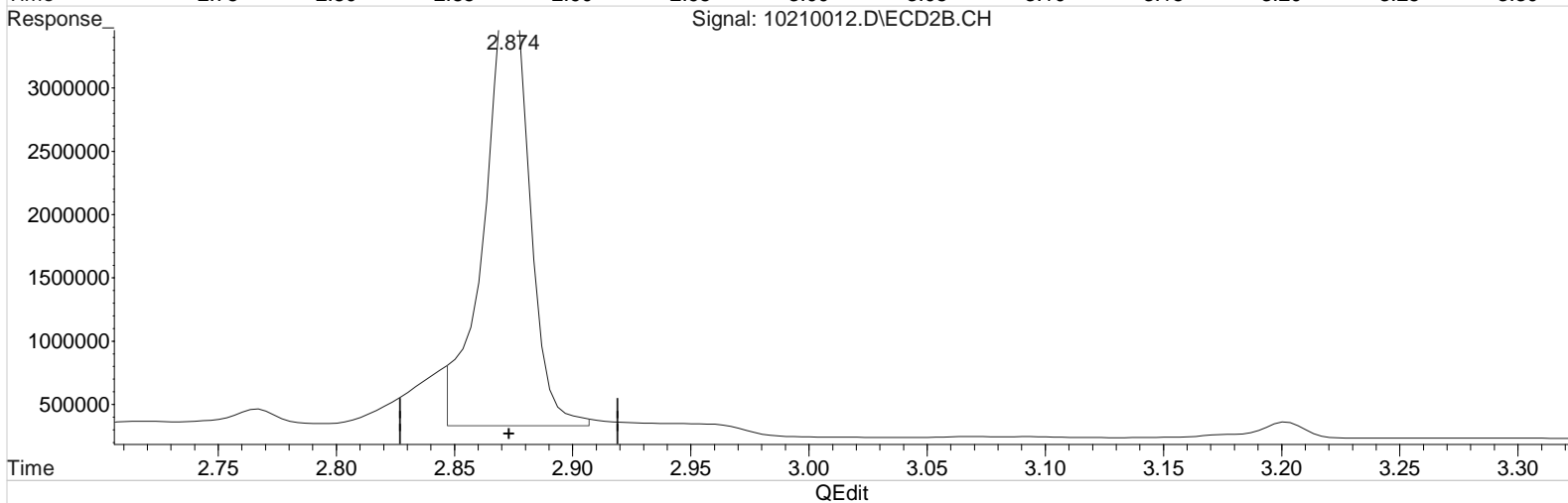
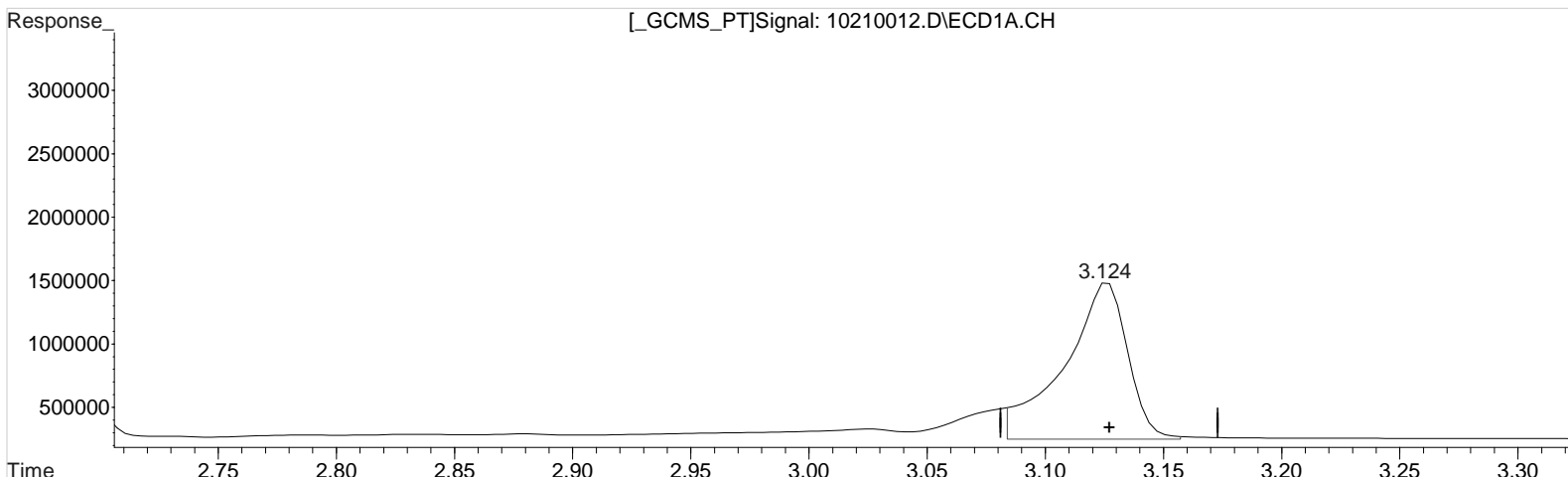
Manual Integration:
 After
 Baseline/Shoulder
 10/21/20

(1) Dalapon #2 (m)
 2.874min 131.747 ppb
 response 6365052

Data File : J:\gc24\data\102120\10210012.D Vial: 11
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:56 pm Operator: UA
Sample : PENTA2-15E ICV 100 PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:33:07 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.124min 93.788 ppb m
response 2275140

(1) Dalapon #2 (m)
2.874min 95.982 ppb m
response 4637166

Manual Integration:
After
Baseline/Shoulder
10/21/20

Seq	Run	Location	Method	Datafile	SeqTable	Calib:RF:RT	Sample Name
No	1	Vial 100	8151A-17	11280001	F:01:01		PRIMER
No	2	Vial 16	8151A-17	11280002	F:02:01		PENTA-2 41C 100C
No	3	Vial 17	8151A-17	11280003	F:03:01		IB
No	4	Vial 18	8151A-17	11280004	F:04:01		KQ2017762-04MB
No	5	Vial 19	8151A-17	11280005	F:05:01		KQ2017762-03LCS
No	6	Vial 20	8151A-17	11280006	F:06:01		K2010401-001 5X
No	7	Vial 21	8151A-17	11280007	F:07:01		K2010401-002 5X
No	8	Vial 22	8151A-17	11280008	F:08:01		K2010401-003
No	9	Vial 23	8151A-17	11280009	F:09:01		KQ2017762-1MS 5X
No	10	Vial 24	8151A-17	11280010	F:10:01		KQ2017762-2DMS 5
No	11	Vial 25	8151A-17	11280011	F:11:01		KQ2017763-04MB
No	12	Vial 26	8151A-17	11280012	F:12:01		KQ2017763-03LCS
No	13	Vial 27	8151A-17	11280013	F:13:01		K2010403-001
No	14	Vial 16	8151A-17	11280014	F:14:01		PENTA-2 41C 100C
No	15	Vial 17	8151A-17	11280015	F:15:01		IB
No	16	Vial 28	8151A-17	11280016	F:16:01		K2010403-002
No	17	Vial 29	8151A-17	11280017	F:17:01		K2010403-003
No	18	Vial 30	8151A-17	11280018	F:18:01		K2010403-004
No	19	Vial 31	8151A-17	11280019	F:19:01		K2010403-005
No	20	Vial 32	8151A-17	11280020	F:20:01		K2010403-006
No	21	Vial 33	8151A-17	11280021	F:21:01		K2010403-007
No	22	Vial 34	8151A-17	11280022	F:22:01		K2010403-008
No	23	Vial 35	8151A-17	11280023	F:23:01		K2010403-009
No	24	Vial 36	8151A-17	11280024	F:24:01		K2010403-010
No	25	Vial 37	8151A-17	11280025	F:25:01		K2010403-011
No	26	Vial 16	8151A-17	11280026	F:26:01		PENTA-2 41C 100C
No	27	Vial 17	8151A-17	11280027	F:27:01		IB
No	28	Vial 38	8151A-17	11280028	F:28:01		K2010403-012
No	29	Vial 39	8151A-17	11280029	F:29:01		K2010403-013
No	30	Vial 40	8151A-17	11280030	F:30:01		K2010403-014
No	31	Vial 41	8151A-17	11280031	F:31:01		K2010403-015
No	32	Vial 42	8151A-17	11280032	F:32:01		K2010403-016
No	33	Vial 43	8151A-17	11280033	F:33:01		K2010403-017*
No	34	Vial 44	8151A-17	11280034	F:34:01		K2010403-018
No	35	Vial 45	8151A-17	11280035	F:35:01		K2010403-019*
No	36	Vial 46	8151A-17	11280036	F:36:01		K2010403-020✓
No	37	Vial 16	8151A-17	11280037	F:37:01		PENTA-2 41C 100C
No	38	Vial 17	8151A-17	11280038	F:38:01		IB
No	39	Vial 47	8151A-17	11280039	F:39:01		KQ2017763-01MS
No	40	Vial 48	8151A-17	11280040	F:40:01		KQ2017763-02DMS
No	41	Vial 49	8151A-17	11280041	F:41:01		KQ2017767-04MB
No	42	Vial 50	8151A-17	11280042	F:42:01		KQ2017767-03LCS
No	43	Vial 51	8151A-17	11280043	F:43:01		K2010412-001
No	44	Vial 52	8151A-17	11280044	F:44:01		K2010412-002
No	45	Vial 53	8151A-17	11280045	F:45:01		K2010412-003
No	46	Vial 54	8151A-17	11280046	F:46:01		K2010412-004
No	47	Vial 55	8151A-17	11280047	F:47:01		K2010412-005
No	48	Vial 56	8151A-17	11280048	F:48:01		K2010412-006
No	49	Vial 16	8151A-17	11280049	F:49:01		PENTA-2 41C 100C
No	50	Vial 17	8151A-17	11280050	F:50:01		IB
No	51	Vial 57	8151A-17	11280051	F:51:01		K2010412-007
No	52	Vial 58	8151A-17	11280052	F:52:01		K2010412-008
No	53	Vial 59	8151A-17	11280053	F:53:01		K2010412-009
No	54	Vial 60	8151A-17	11280054	F:54:01		K2010412-010
No	55	Vial 61	8151A-17	11280055	F:55:01		K2010412-011
No	56	Vial 62	8151A-17	11280056	F:56:01		K2010412-012
No	57	Vial 63	8151A-17	11280057	F:57:01		K2010412-013
No	58	Vial 64	8151A-17	11280058	F:58:01		K2010412-014*
No	59	Vial 65	8151A-17	11280059	F:59:01		K2010412-015
No	60	Vial 66	8151A-17	11280060	F:60:01		K2010412-016*
No	61	Vial 16	8151A-17	11280061	F:61:01		PENTA-2 41C 100C
No	62	Vial 17	8151A-17	11280062	F:62:01		IB
No	63	Vial 67	8151A-17	11280063	F:63:01		K2010412-017
No	64	Vial 68	8151A-17	11280064	F:64:01		K2010412-018*
No	65	Vial 69	8151A-17	11280065	F:65:01		K2010412-019

Handwritten:
 QX: K2020566
 Run: 705102

Sel	Run	Location	Method	Datafile	SeqTable	Calib:RF:RT	Sample Name
No	66	Vial 70	8151A-17	11280066	F:66:01		KQ2017767-01MS
No	67	Vial 71	8151A-17	11280067	F:67:01		KQ2017767-02DMS
No	68	Vial 72	8151A-17	11280068	F:68:01		KQ2017764-04MB
No	69	Vial 73	8151A-17	11280069	F:69:01		KQ2017764-03LCS
No	70	Vial 74	8151A-17	11280070	F:70:01		K2010405-007*
No	71	Vial 75	8151A-17	11280071	F:71:01		K2010405-008*
No	72	Vial 76	8151A-17	11280072	F:72:01		K2010405-009
No	73	Vial 16	8151A-17	11280073	F:73:01		PENTA-2 41C 100C
No	74	Vial 17	8151A-17	11280074	F:74:01		IB
No	75	Vial 77	8151A-17	11280075	F:75:01		K2010405-010
No	76	Vial 78	8151A-17	11280076	F:76:01		K2010405-015
No	77	Vial 79	8151A-17	11280077	F:77:01		K2010405-016
No	78	Vial 80	8151A-17	11280078	F:78:01		KQ2017764-01MS
No	79	Vial 81	8151A-17	11280079	F:79:01		KQ2017764-02DMS
No	80	Vial 82	8151A-17	11280080	F:80:01		K2010405-001 5X
No	81	Vial 83	8151A-17	11280081	F:81:01		K2010405-002 5X
No	82	Vial 84	8151A-17	11280082	F:82:01		K2010405-003 5X
No	83	Vial 85	8151A-17	11280083	F:83:01		K2010405-004 5X
No	84	Vial 86	8151A-17	11280084	F:84:01		K2010405-005 5X
No	85	Vial 16	8151A-17	11280085	F:85:01		PENTA-2 41C 100C
No	86	Vial 17	8151A-17	11280086	F:86:01		IB
No	87	Vial 87	8151A-17	11280087	F:87:01		K2010405-006 5X
No	88	Vial 88	8151A-17	11280088	F:88:01		K2010405-013 5X
No	89	Vial 89	8151A-17	11280089	F:89:01		K2010405-014 5X
No	90	Vial 90	8151A-17	11280090	F:90:01		K2010405-011 5X
No	91	Vial 91	8151A-17	11280091	F:91:01		K2010405-012 5X
No	92	Vial 92	8151A-17	11280092	F:92:01		K2010405-017 5X
No	93	Vial 93	8151A-17	11280093	F:93:01		K2010405-018 5X
No	94	Vial 94	8151A-17	11280094	F:94:01		K2010405-019 5X
No	95	Vial 95	8151A-17	11280095	F:95:01		K2010405-020 5X
No	96	Vial 16	8151A-17	11280096	F:96:01		PENTA-2 41C 100C
No	97	Vial 17	8151A-17	11280097	F:97:01		IB
No	98	none	STANDBY	11280098	F:98:01		STANBY

DILUTION LOG

LAB ID.	ALIQOT	FINAL VOLUME	DILUTION FACTOR	DATE	By:	Solvent Lot #	COMMENTS / Ext. Date
K2010405-01	200ul	1ml	5x	11-25-20	UA	150-000000	Bad matrix
-02							
-03							
-04							
-05							
-06							
-13							
-14							
-11							
-12							
-17							
-18							
-19							
✓ -20	✓	✓	✓	✓	✓	✓	✓

UA
11-25-20

Sel	Run	Location	Method	Datafile	SeqTable	Calib:RF:RT	Sample Name
No	1	Vial 99	552-2	11250001	F:01:01		ISO-OCTANE
No	2	Vial 99	552-2	11250002	F:02:01		ISO-OCTANE
No	3	Vial 2	552-2	11250003	F:03:01		111220 CCV
No	4	Vial 3	552-2	11250004	F:04:01		Low Level LCS
No	5	Vial 1	552-2	11250005	F:05:01		IB
No	6	Vial 4	552-2	11250006	F:06:01		KQ2018676-04MB
No	7	Vial 5	552-2	11250007	F:07:01		KQ2018676-03LCS
No	8	Vial 6	552-2	11250008	F:08:01		K2010444-001
No	9	Vial 7	552-2	11250009	F:09:01		K2010487-001
No	10	Vial 8	552-2	11250010	F:10:01		K2010644-001
No	11	Vial 9	552-2	11250011	F:11:01		K2010815-002
No	12	Vial 10	552-2	11250012	F:12:01		KQ2018676-01MS
No	13	Vial 11	552-2	11250013	F:13:01		KQ2018676-02DMS
No	14	Vial 5	552-2	11250014	F:14:01		K2010644-01 5X
No	15	Vial 6	552-2	11250015	F:15:01		K2010815-02 5X
No	16	Vial 2	552-2	11250016	F:16:01		111220 CCV
No	17	Vial 1	552-2	11250017	F:17:01		IB
No	18	Vial 100	8151A-17	11250018	F:18:01		PRIMER
No	19	Vial 16	8151A-17	11250019	F:19:01		PENTA-2 41C 100C
No	20	Vial 17	8151A-17	11250020	F:20:01		IB
No	21	Vial 18	8151A-17	11250021	F:21:01		KQ2017762-04MB
No	22	Vial 19	8151A-17	11250022	F:22:01		KQ2017762-03LCS
No	23	Vial 20	8151A-17	11250023	F:23:01		K2010401-001 5X
No	24	Vial 21	8151A-17	11250024	F:24:01		K2010401-002 5X
No	25	Vial 22	8151A-17	11250025	F:25:01		K2010401-003
No	26	Vial 23	8151A-17	11250026	F:26:01		KQ2017762-1MS 5X
No	27	Vial 24	8151A-17	11250027	F:27:01		KQ2017762-2DMS 5
No	28	Vial 25	8151A-17	11250028	F:28:01		KQ2017763-04MB
No	29	Vial 26	8151A-17	11250029	F:29:01		KQ2017763-03LCS
No	30	Vial 27	8151A-17	11250030	F:30:01		K2010403-001
No	31	Vial 16	8151A-17	11250031	F:31:01		PENTA-2 41C 100C
No	32	Vial 17	8151A-17	11250032	F:32:01		IB
No	33	Vial 28	8151A-17	11250033	F:33:01		K2010403-002
No	34	Vial 29	8151A-17	11250034	F:34:01		K2010403-003
No	35	Vial 30	8151A-17	11250035	F:35:01		K2010403-004
No	36	Vial 31	8151A-17	11250036	F:36:01		K2010403-005
No	37	Vial 32	8151A-17	11250037	F:37:01		K2010403-006
No	38	Vial 33	8151A-17	11250038	F:38:01		K2010403-007
No	39	Vial 34	8151A-17	11250039	F:39:01		K2010403-008
No	40	Vial 35	8151A-17	11250040	F:40:01		K2010403-009
No	41	Vial 36	8151A-17	11250041	F:41:01		K2010403-010
No	42	Vial 37	8151A-17	11250042	F:42:01		K2010403-011
No	43	Vial 16	8151A-17	11250043	F:43:01		PENTA-2 41C 100C
No	44	Vial 17	8151A-17	11250044	F:44:01		IB
No	45	Vial 38	8151A-17	11250045	F:45:01		K2010403-012
No	46	Vial 39	8151A-17	11250046	F:46:01		K2010403-013
No	47	Vial 40	8151A-17	11250047	F:47:01		K2010403-014
No	48	Vial 41	8151A-17	11250048	F:48:01		K2010403-015
No	49	Vial 42	8151A-17	11250049	F:49:01		K2010403-016
No	50	Vial 43	8151A-17	11250050	F:50:01		K2010403-017
No	51	Vial 44	8151A-17	11250051	F:51:01		K2010403-018
No	52	Vial 45	8151A-17	11250052	F:52:01		K2010403-019
No	53	Vial 46	8151A-17	11250053	F:53:01		K2010403-020
No	54	Vial 16	8151A-17	11250054	F:54:01		PENTA-2 41C 100C
No	55	Vial 17	8151A-17	11250055	F:55:01		IB
No	56	Vial 47	8151A-17	11250056	F:56:01		KQ2017763-01MS
No	57	Vial 48	8151A-17	11250057	F:57:01		KQ2017763-02DMS
No	58	Vial 49	8151A-17	11250058	F:58:01		KQ2017767-04MB
No	59	Vial 50	8151A-17	11250059	F:59:01		KQ2017767-03LCS
No	60	Vial 51	8151A-17	11250060	F:60:01		K2010412-001
No	61	Vial 52	8151A-17	11250061	F:61:01		K2010412-002
No	62	Vial 53	8151A-17	11250062	F:62:01		K2010412-003
No	63	Vial 54	8151A-17	11250063	F:63:01		K2010412-004
No	64	Vial 55	8151A-17	11250064	F:64:01		K2010412-005
No	65	Vial 56	8151A-17	11250065	F:65:01		K2010412-006

NR

Run #: 705101
ICAT: K2000566

NR
Run Stopped