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Fax : 908 789 8922

Cover Page

Order ID : Q1352

Project ID : Ft Meade Tipton Airfield Parcel RI - PO 0111169

Client : Weston Solutions

Lab Sample Number	Client Sample Number
Q1352-01	TAP-IDW-SOIL-021025
Q1352-02	TAP-IDW-SOIL-021025

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 2/20/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Weston Solutions
Project Name: Ft Meade Tipton Airfield Parcel RI - PO 0111169
Project # N/A
Chemtech Project # Q1352
Test Name: TCLP Herbicide

A. Number of Samples and Date of Receipt:
2 Solid samples were received on 02/11/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Cyanide, Ignitability, PCB, pH, Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP METALS, TCLP Pesticide, TCLP VOA and TCLP ZHE Extraction. This data package contains results for TCLP Herbicide.

C. Analytical Techniques:
The analysis was performed on instrument ECD_S. The front column is RTX-CLPesticides which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 11139. The rear column is RTX-CLPesticides2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 11324The analysis of TCLP Herbicides was based on method 8151A and extraction was done based on method 3510 and TCLP extraction method was 1311.

D. QA/ QC Samples:

The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

E. Additional Comments:

The not QT review data is reported in the Miscellaneous.

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F. Calculation for water sample

$$ug/l = \frac{(Ax)\,(Vt)\,(MW)}{(ICF)\,(Vi)\,(Vs)} \times DF$$

Where:
Ax = Area for the parameter to be measured.
ICF = average calibration factor for the calibration standards.
Vt = Volume of total extract in uL (Take into account dilutions)
Is = Amount of standard injected in nanograms (ng)
Vi = Volume of extract injected.
Vs = Volume of Aqueous extracted (mL).
MW = molecular weight of the compound

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

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DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Q1352 MATRIX: TCLP

METHOD: 8151A/3510/1311

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified.			✓
2.	Standard Summary Submitted.			✓
3.	Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis, 12 HOURS IF 8000 SERIES METHOD. The Initial Calibration met the requirements . The Continuous Calibration met the requirements .			✓
4.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
5.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓
6.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The MS recoveries met the requirements for all compounds . The MSD recoveries met the acceptable requirements . The Blank Spike met requirements for all samples . The RPD met criteria .			✓
7.	Retention Time Shift Meet Criteria (if applicable) Comments:			✓
8.	Extraction Holding Time Met If not met, list number of days exceeded for each sample:			✓
9.	Analysis Holding Time Met If not met, list those compounds and their recoveries which fall outside the acceptable range.			✓

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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

NA NO YES

ADDITIONAL COMMENTS:

The not QT review data is reported in the Miscellaneous.

_____ _____

QA REVIEW Date

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q1352**

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: **PRADIP PRAJAPATI** **Date:** **02/20/2025**

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LAB CHRONICLE

OrderID:	Q1352	**OrderDate:**	2/11/2025 11:32:00 AM
Client:	Weston Solutions	**Project:**	Ft Meade Tipton Airfield Parcel RI - PO 0111169
Contact:	Nathan Fretz	**Location:**	N51

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1352-01	**TAP-IDW-SOIL-021025**	**SOIL**			**02/10/25**			**02/11/25**
			PCB	8082A		02/12/25	02/12/25	
Q1352-02	**TAP-IDW-SOIL-021025**	**TCLP**			**02/10/25**			**02/11/25**
			TCLP Herbicide	8151A		02/13/25	02/13/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1352 **Order ID:** Q1352

Client: Weston Solutions **Project ID:** Ft Meade Tipton Airfield Parcel RI - P

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units

Client ID :

Total Concentration: **0.000**

QC
SUMMARY

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Surrogate Summary

SDG No.: Q1352

Client: Weston Solutions

Analytical Method: 8151A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PS029117.D	PIBLK-PS029117.D	2,4-DCAA	1	500	477	95		32	138
		2,4-DCAA	2	500	487	97		32	138
I.BLK-PS029159.D	PIBLK-PS029159.D	2,4-DCAA	1	500	510	102		32	138
		2,4-DCAA	2	500	498	100		32	138
PB166713BL	PB166713BL	2,4-DCAA	1	500	458	92		32	138
		2,4-DCAA	2	500	429	86		32	138
PB166713BS	PB166713BS	2,4-DCAA	1	500	516	103		32	138
		2,4-DCAA	2	500	483	97		32	138
PB166700TB	PB166700TB	2,4-DCAA	1	500	504	101		32	138
		2,4-DCAA	2	500	375	75		32	138
Q1352-02	TAP-IDW-SOIL-021025	2,4-DCAA	1	500	521	104		32	138
		2,4-DCAA	2	500	372	74		32	138
I.BLK-PS029166.D	PIBLK-PS029166.D	2,4-DCAA	1	500	503	101		32	138
		2,4-DCAA	2	500	496	99		32	138
Q1356-04MS	CARBON-WATERMS	2,4-DCAA	1	500	497	99		32	138
		2,4-DCAA	2	500	470	94		32	138
Q1356-04MSD	CARBON-WATERMSD	2,4-DCAA	1	500	485	97		32	138
		2,4-DCAA	2	500	469	94		32	138
I.BLK-PS029178.D	PIBLK-PS029178.D	2,4-DCAA	1	500	502	100		32	138
		2,4-DCAA	2	500	499	100		32	138

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1352

Client: Weston Solutions

Analytical Method: 8151A **DataFile :** PS029171.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**CARBON-WATERMS**											
Q1356-04MS	2,4-D	50	0	48.2	ug/L	96				45	152	
	2,4,5-TP(Silvex)	50	0	48.2	ug/L	96				51	134	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1352

Client: Weston Solutions

Analytical Method: 8151A **DataFile :** PS029172.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**CARBON-WATERMSD**											
Q1356-04MSD	2,4-D	50	0	48.1	ug/L	96		0		45	152	20
	2,4,5-TP(Silvex)	50	0	48.2	ug/L	96		0		51	134	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1352

Client: Weston Solutions

Analytical Method: 8151A **Datafile :** PS029162.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166713BS	2,4-D	5	4.90	ug/L	98				45	152	
	2,4,5-TP(Silvex)	5	5.00	ug/L	100				51	134	

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166713BL

Lab Name: CHEMTECH Contract: WEST04

Lab Code: CHEM Case No.: Q1352 SAS No.: Q1352 SDG NO.: Q1352

Lab Sample ID: PB166713BL Lab File ID: PS029161.D

Matrix: (soil/water) water Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 02/13/2025

Date Analyzed (1): 02/13/2025 Date Analyzed (2): 02/13/2025

Time Analyzed (1): 19:24 Time Analyzed (2): 19:24

Instrument ID (1): ECD_S Instrument ID (2): ECD_S

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLP2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB166713BS	PB166713BS	PS029162.D	02/13/2025	02/13/2025
PB166700TB	PB166700TB	PS029163.D	02/13/2025	02/13/2025
TAP-IDW-SOIL-021025	Q1352-02	PS029165.D	02/13/2025	02/13/2025
CARBON-WATERMS	Q1356-04MS	PS029171.D	02/13/2025	02/13/2025
CARBON-WATERMSD	Q1356-04MSD	PS029172.D	02/14/2025	02/14/2025

COMMENTS:

Alliance
TECHNICAL GROUP

SAMPLE DATA

Raw Data: **PS029163.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Weston Solutions	Date Collected:	
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	02/13/25
Client Sample ID:	PB166700TB	SDG No.:	Q1352
Lab Sample ID:	PB166700TB	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029163.D	1	02/13/25 10:15	02/13/25 20:12	PB166713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	15.0	U	4.90	15.0	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	15.0	U	4.50	15.0	20.0	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	504		32 - 138		101%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Sample Results: **PS029163.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021325\
Data File : PS029163.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Feb 2025 20:12
Operator : AR\AJ
Sample : PB166700TB
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB166700TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 14 01:23:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021225.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 09:17:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	System Monitoring Compounds							
4)	S 2,4-DCAA	7.189	7.663	1393.9E6	397.1E6	504.329	375.177	#
	Target Compounds							

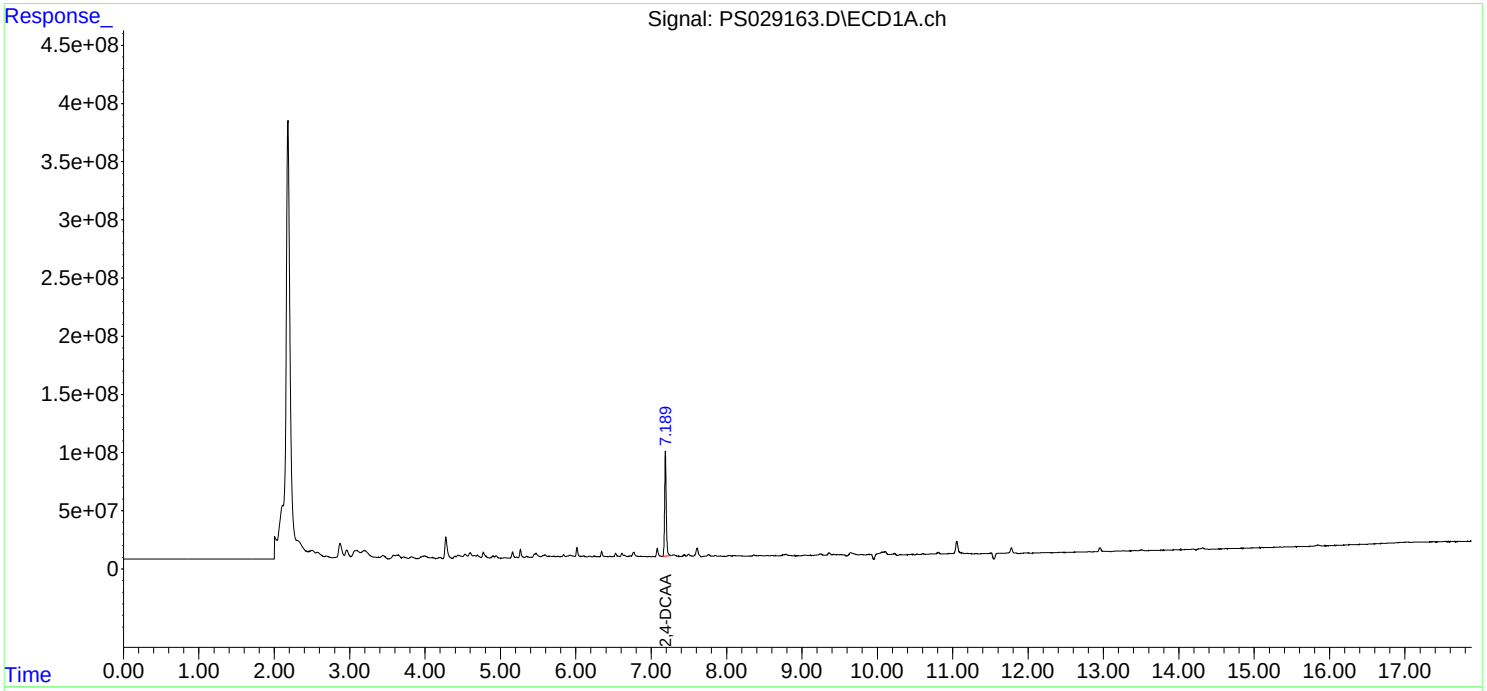
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

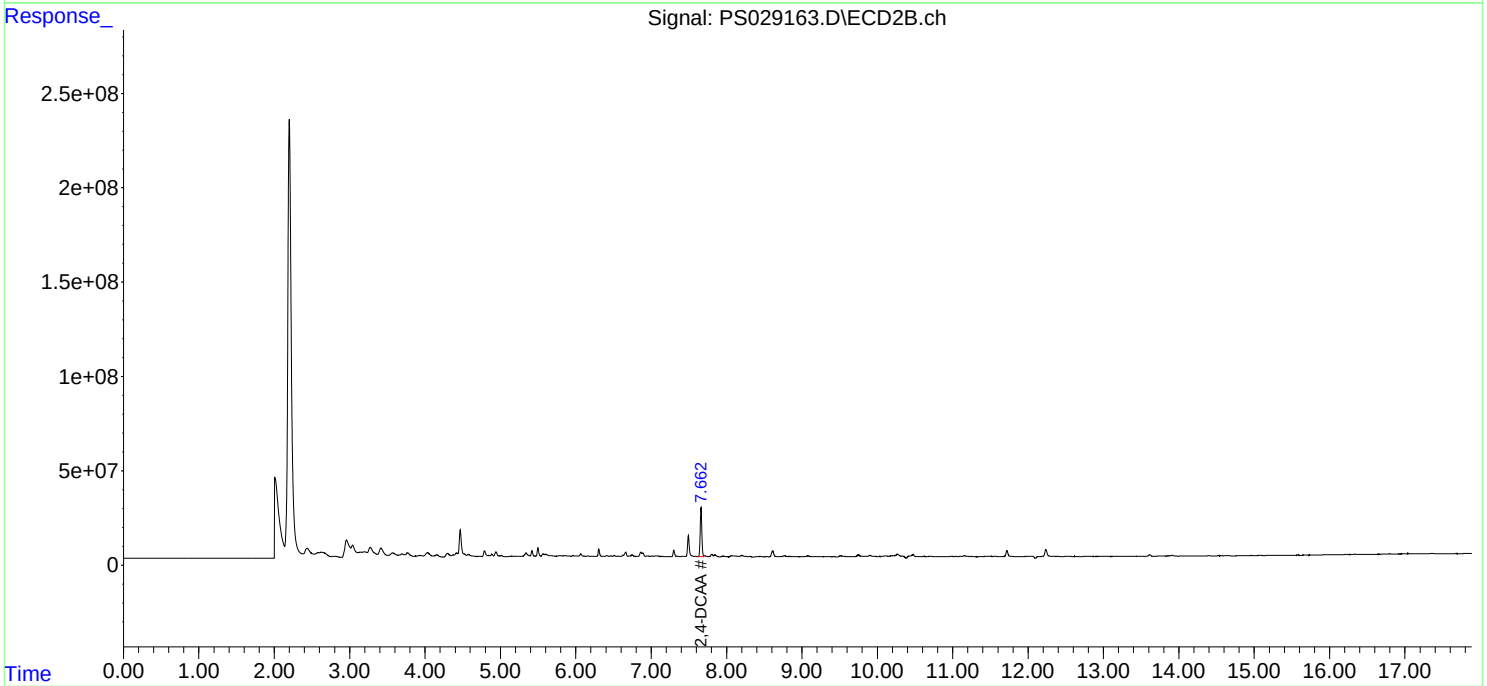
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021325\
Data File : PS029163.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Feb 2025 20:12
Operator : AR\AJ
Sample : PB166700TB
Misc :
ALS Vial : 11 Sample Multiplier: 1

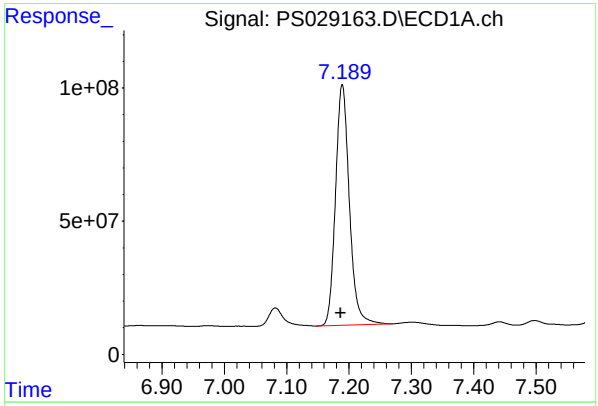
Instrument :
ECD_S
ClientSampleId :
PB166700TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 14 01:23:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021225.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 09:17:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



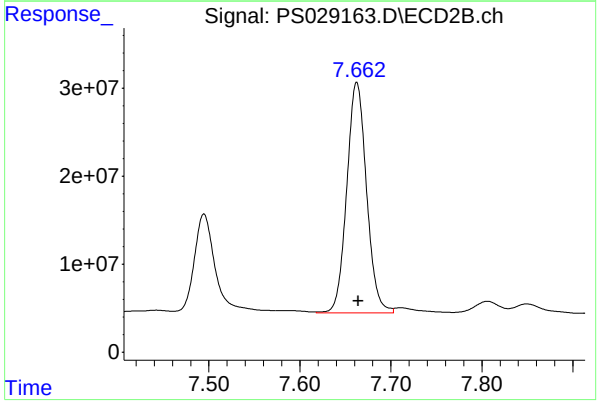




#4 2,4-DCAA

R.T.: 7.189 min
Delta R.T.: 0.003 min
Response: 1393894000
Conc: 504.33 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB166700TB



#4 2,4-DCAA

R.T.: 7.663 min
Delta R.T.: -0.002 min
Response: 397122474
Conc: 375.18 ng/ml

Raw Data: **PS029165.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Weston Solutions	Date Collected:	02/10/25
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	02/11/25
Client Sample ID:	TAP-IDW-SOIL-021025	SDG No.:	Q1352
Lab Sample ID:	Q1352-02	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029165.D	1	02/13/25 10:15	02/13/25 21:00	PB166713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	15.0	U	4.90	15.0	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	15.0	U	4.50	15.0	20.0	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	521		32 - 138		104%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Sample Results: **PS029165.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021325\
Data File : PS029165.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Feb 2025 21:00
Operator : AR\AJ
Sample : Q1352-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TAP-IDW-SOIL-021025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 14 01:23:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021225.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 09:17:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	System Monitoring Compounds							
4)	S 2,4-DCAA	7.189	7.662	1439.3E6	394.1E6	520.776	372.337	#
	Target Compounds							

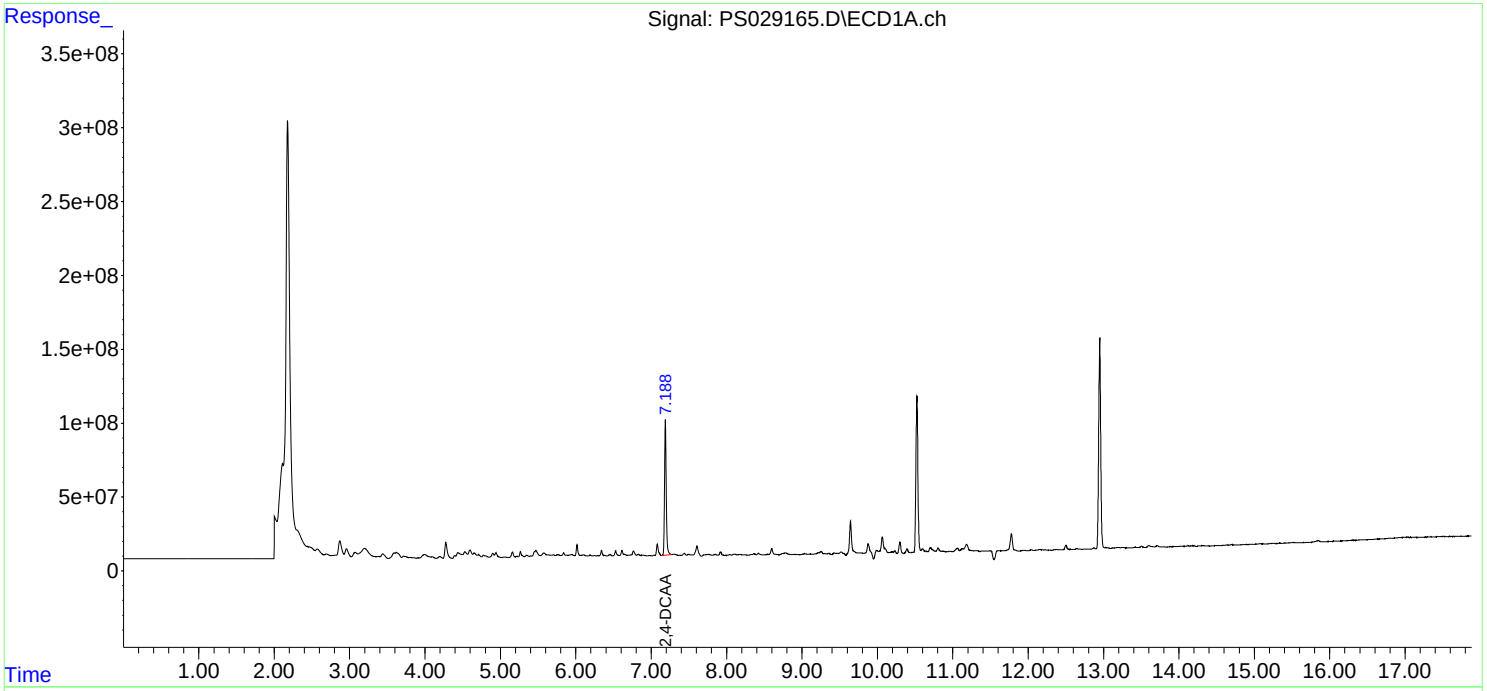
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

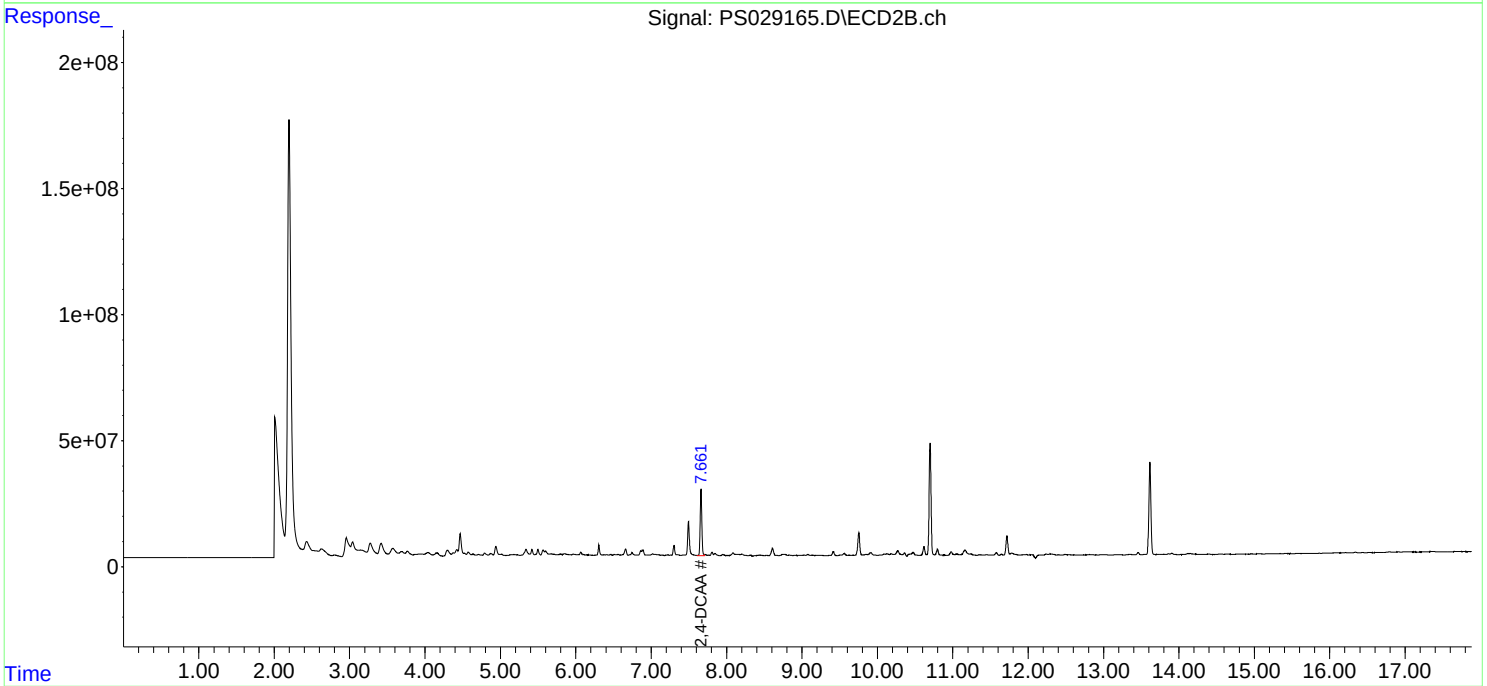
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021325\
Data File : PS029165.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Feb 2025 21:00
Operator : AR\AJ
Sample : Q1352-02
Misc :
ALS Vial : 13 Sample Multiplier: 1

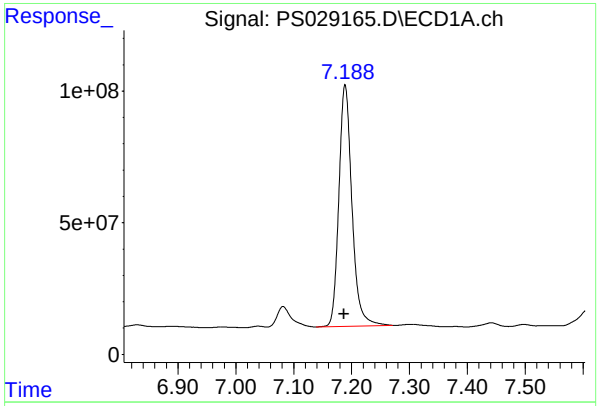
Instrument :
ECD_S
ClientSampleId :
TAP-IDW-SOIL-021025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 14 01:23:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021225.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 09:17:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



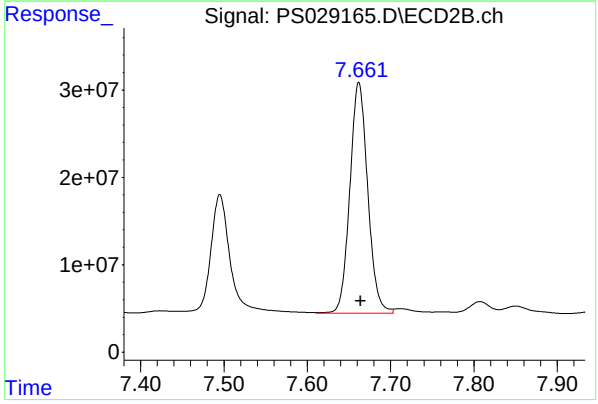




#4 2,4-DCAA

R.T.: 7.189 min
Delta R.T.: 0.002 min
Response: 1439349813
Conc: 520.78 ng/ml

Instrument :
ECD_S
ClientSampleId :
TAP-IDW-SOIL-021025



#4 2,4-DCAA

R.T.: 7.662 min
Delta R.T.: -0.002 min
Response: 394117359
Conc: 372.34 ng/ml

CALIBRATION SUMMARY

Raw Data

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

RETENTION TIMES OF INITIAL CALIBRATION

Contract: WEST04

Lab Code: CHEM **Case No.:** Q1352 **SAS No.:** Q1352 **SDG NO.:** Q1352

Instrument ID: ECD_S **Calibration Date(s):** 02/11/2025 02/11/2025

Calibration Times: 17:56 19:32

GC Column: RTX-CLP ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS029118.D RT 500 = PS029119.D

RT 750 = PS029120.D RT 1000 = PS029121.D RT 1500 = PS029122.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-TP(Silvex)	9.17	9.17	9.17	9.17	9.17	9.17	9.07	9.27
2,4-D	8.30	8.30	8.30	8.30	8.30	8.30	8.20	8.40
2,4-DCAA	7.19	7.19	7.19	7.19	7.19	7.19	7.09	7.29

Raw Data

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

RETENTION TIMES OF INITIAL CALIBRATION

Contract: WEST04

Lab Code: CHEM **Case No.:** Q1352 **SAS No.:** Q1352 **SDG NO.:** Q1352

Instrument ID: ECD_S **Calibration Date(s):** 02/11/2025 02/11/2025

Calibration Times: 17:56 19:32

GC Column: RTX-CLP2 ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS029118.D RT 500 = PS029119.D

RT 750 = PS029120.D RT 1000 = PS029121.D RT 1500 = PS029122.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-TP(Silvex)	9.80	9.80	9.80	9.80	9.80	9.80	9.70	9.90
2,4-D	8.90	8.90	8.90	8.90	8.90	8.90	8.80	9.00
2,4-DCAA	7.67	7.67	7.66	7.66	7.66	7.66	7.56	7.76

Raw Data

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: WEST04

Lab Code: CHEM **Case No.:** Q1352 **SAS No.:** Q1352 **SDG NO.:** Q1352

Instrument ID: ECD_S **Calibration Date(s):** 02/11/2025 02/11/2025

Calibration Times: 17:56 19:32

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 200 =** PS029118.D **CF 500 =** PS029119.D

CF 750 = PS029120.D **CF 1000 =** PS029121.D **CF 1500 =** PS029122.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	23549600000	19203700000	18837600000	18189200000	17171500000	19390300000	13
2,4-D	4145320000	3324850000	3237670000	3127190000	2985430000	3364090000	14
2,4-DCAA	3443860000	2743930000	2645570000	2552190000	2433720000	2763860000	14

Raw Data

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: WEST04

Lab Code: CHEM **Case No.:** Q1352 **SAS No.:** Q1352 **SDG NO.:** Q1352

Instrument ID: ECD_S **Calibration Date(s):** 02/11/2025 02/11/2025

Calibration Times: 17:56 19:32

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 200 =** PS029118.D **CF 500 =** PS029119.D

CF 750 = PS029120.D **CF 1000 =** PS029121.D **CF 1500 =** PS029122.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	11056300000	9541830000	9635560000	9448160000	9159180000	9768210000	8
2,4-D	1655040000	1386360000	1398110000	1372120000	1351500000	1432630000	9
2,4-DCAA	1265650000	1023410000	1020630000	1000720000	982068000	1058500000	11

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021125\
Data File : PS029118.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Feb 2025 17:56
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 12 01:06:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021125.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 01:05:26 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	7.187	7.665	688.8E6	253.1E6	260.349	248.013
		Target Compounds						
1)	T	Dalapon	2.607	2.656	637.7E6	376.8E6	207.145	198.486
2)	T	3,5-DICHL...	6.365	6.633	904.5E6	327.5E6	237.115	219.637
3)	T	4-Nitroph...	6.985	7.195	357.2E6	181.0E6	217.559	216.114
5)	T	DICAMBA	7.371	7.861	2662.7E6	1134.9E6	226.207	208.306
6)	T	MCPP	7.549	7.962	122.9E6	46510552	17.524	18.760
7)	T	MCPA	7.697	8.202	177.9E6	66885235	18.485	19.096
8)	T	DICHLORPROP	8.073	8.573	735.9E6	308.2E6	242.594	230.623
9)	T	2,4-D	8.303	8.898	779.3E6	311.1E6	240.704	222.548
10)	T	Pentachlo...	8.598	9.419	11502.2E6	5239.6E6	238.382	219.299
11)	T	2,4,5-TP ...	9.173	9.797	4474.4E6	2100.7E6	237.526	218.016
12)	T	2,4,5-T	9.464	10.214	4468.3E6	1998.9E6	236.559	219.930
13)	T	2,4-DB	10.034	10.778	879.5E6	203.4E6	249.293	219.614
14)	T	DINOSEB	11.235	11.155	3250.2E6	1139.8E6	234.520	213.961
15)	T	Picloram	11.047	12.235	7142.6E6	2733.0E6	229.648	198.993
16)	T	DCPA	11.530	12.192	6856.2E6	2641.9E6	242.903	216.565

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

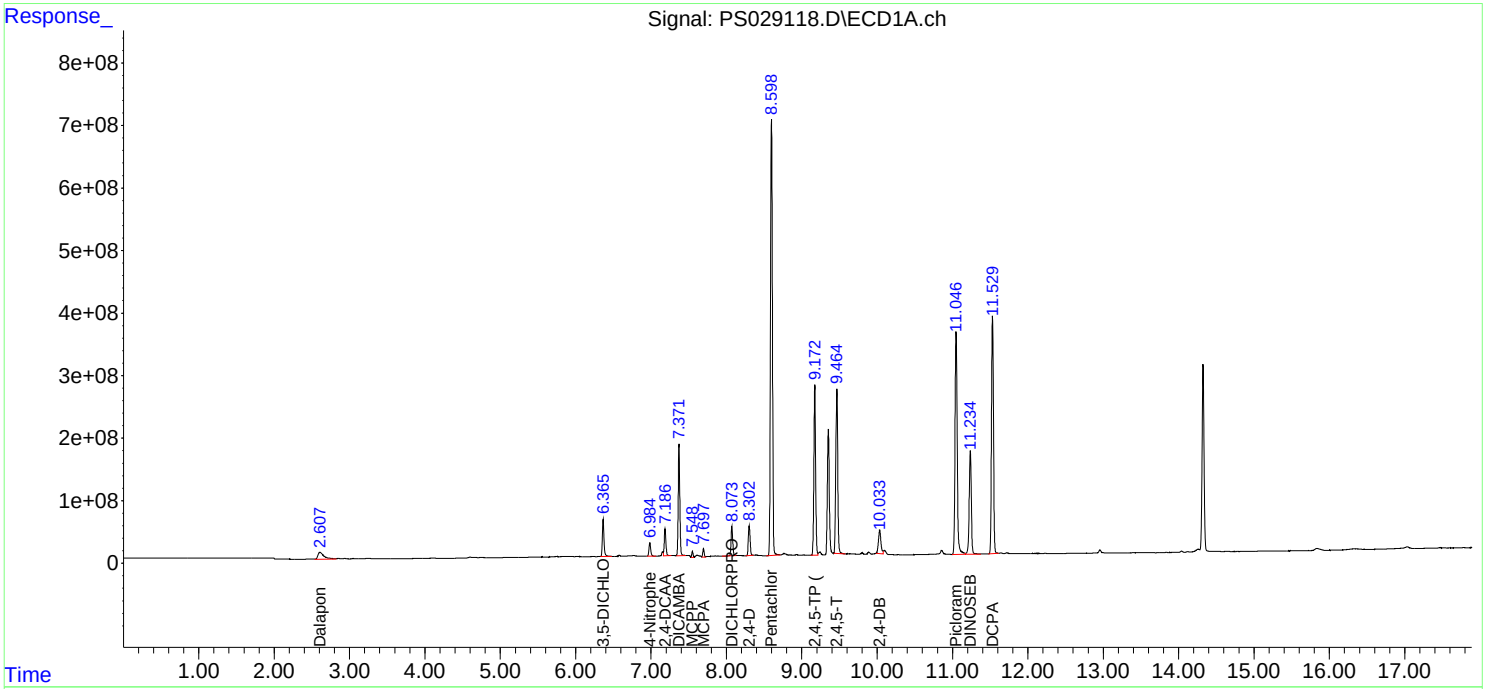
ICAL Form

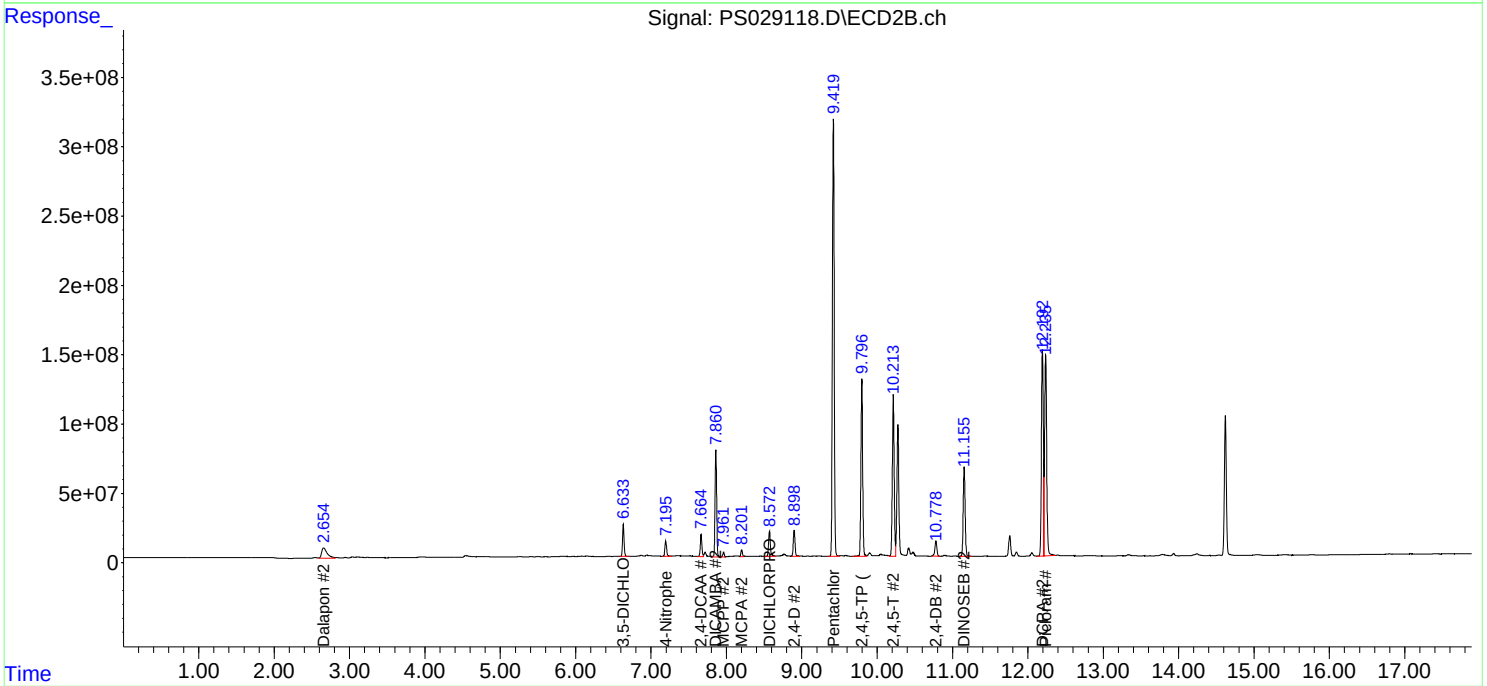
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021125\
Data File : PS029118.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Feb 2025 17:56
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 3 Sample Multiplier: 1

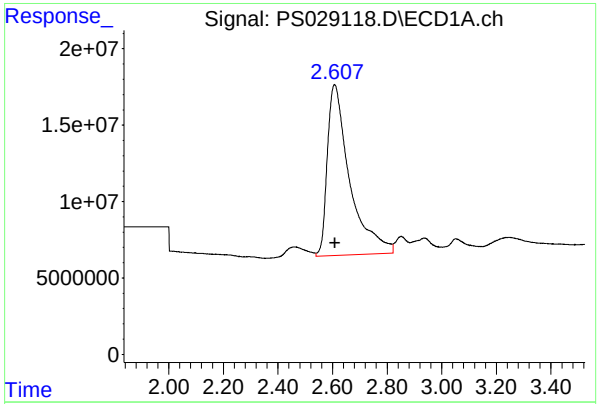
Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 12 01:06:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021125.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 01:05:26 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



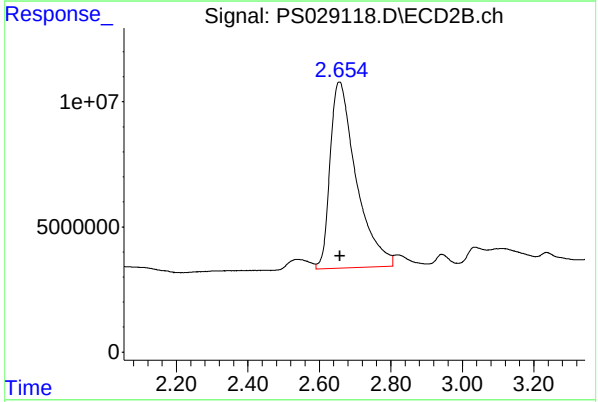




#1 Dalapon

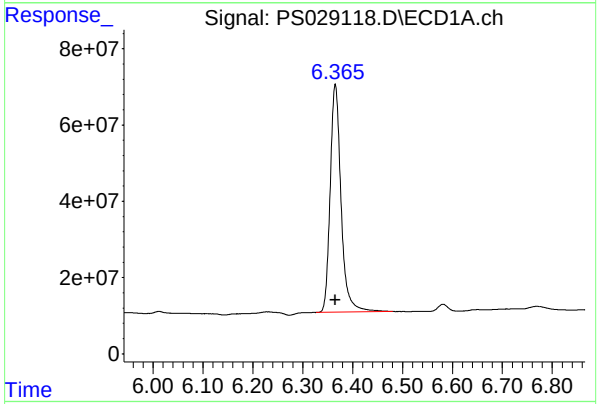
R.T.: 2.607 min
Delta R.T.: -0.002 min
Response: 637650735
Conc: 207.14 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



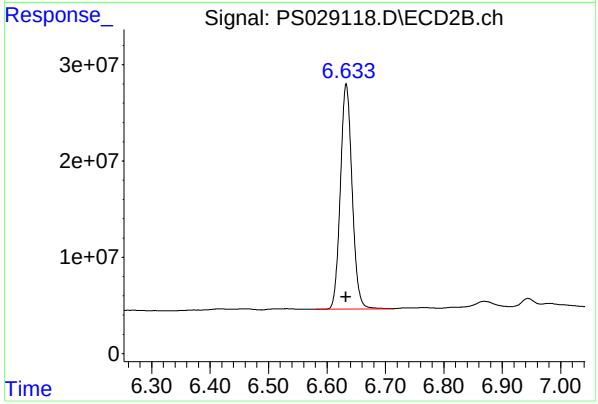
#1 Dalapon

R.T.: 2.656 min
Delta R.T.: -0.002 min
Response: 376788257
Conc: 198.49 ng/ml



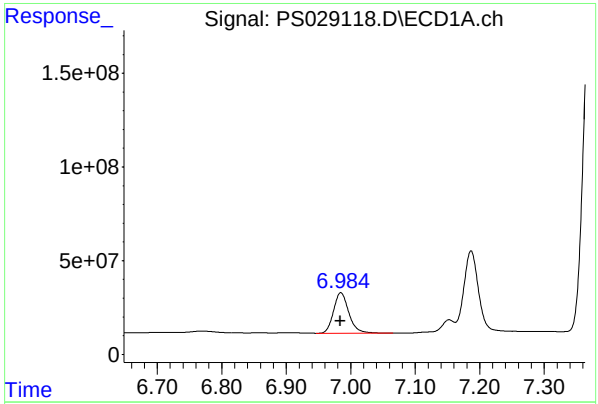
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.365 min
Delta R.T.: 0.000 min
Response: 904549428
Conc: 237.11 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

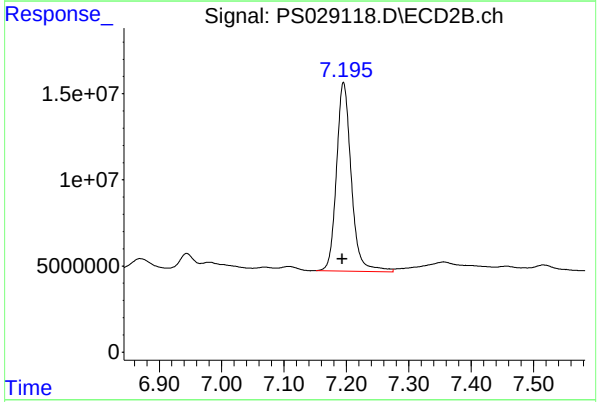
R.T.: 6.633 min
Delta R.T.: 0.000 min
Response: 327466277
Conc: 219.64 ng/ml



#3 4-Nitrophenol

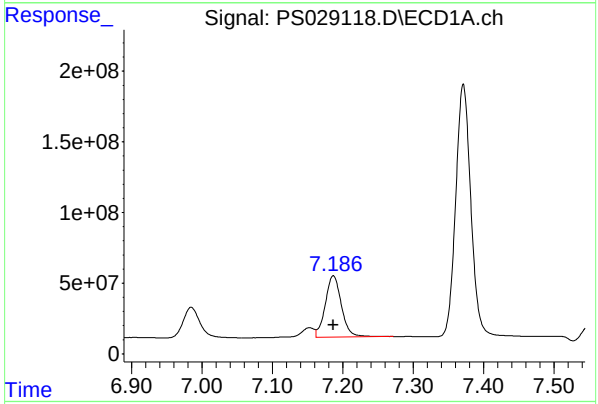
R.T.: 6.985 min
Delta R.T.: 0.000 min
Response: 357182308
Conc: 217.56 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



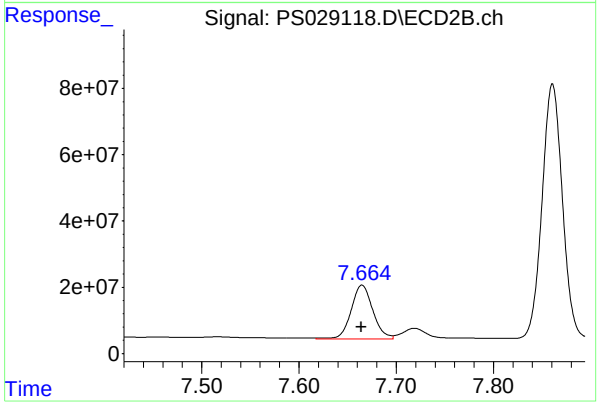
#3 4-Nitrophenol

R.T.: 7.195 min
Delta R.T.: 0.002 min
Response: 181013413
Conc: 216.11 ng/ml



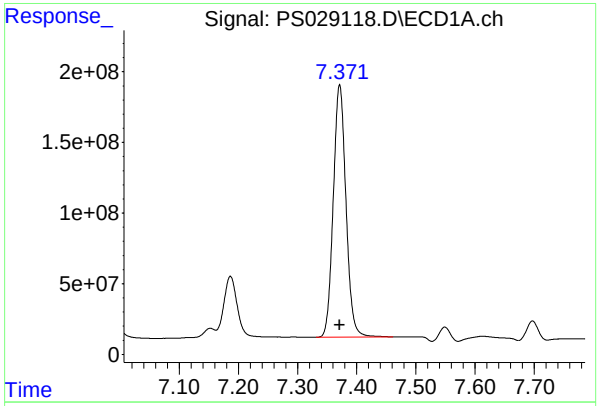
#4 2,4-DCAA

R.T.: 7.187 min
Delta R.T.: 0.000 min
Response: 688772452
Conc: 260.35 ng/ml



#4 2,4-DCAA

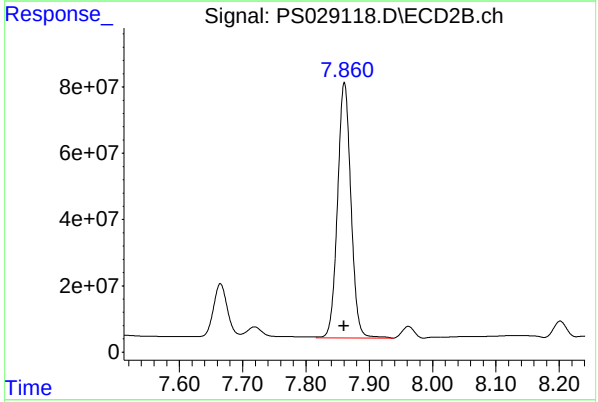
R.T.: 7.665 min
Delta R.T.: 0.000 min
Response: 253129847
Conc: 248.01 ng/ml



#5 DICAMBA

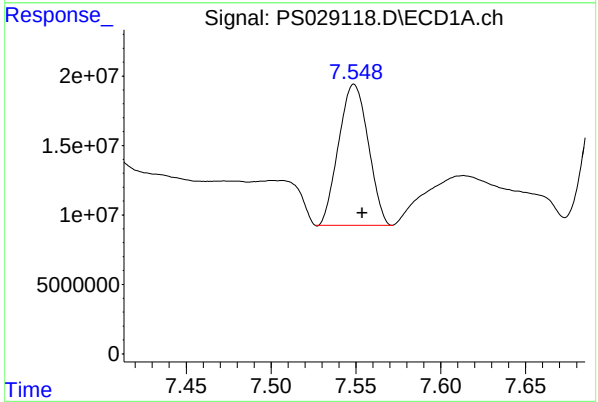
R.T.: 7.371 min
Delta R.T.: 0.000 min
Response: 2662695192
Conc: 226.21 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



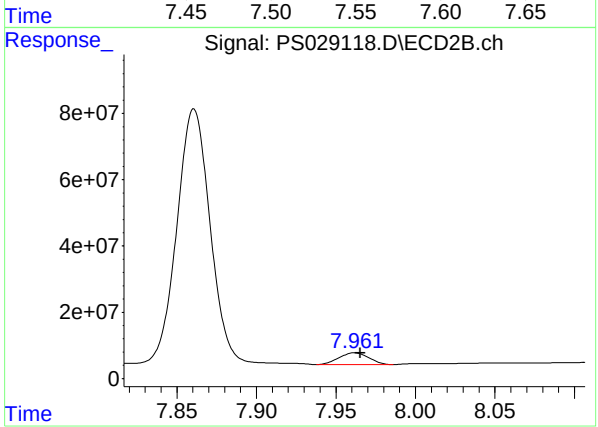
#5 DICAMBA

R.T.: 7.861 min
Delta R.T.: 0.000 min
Response: 1134893663
Conc: 208.31 ng/ml



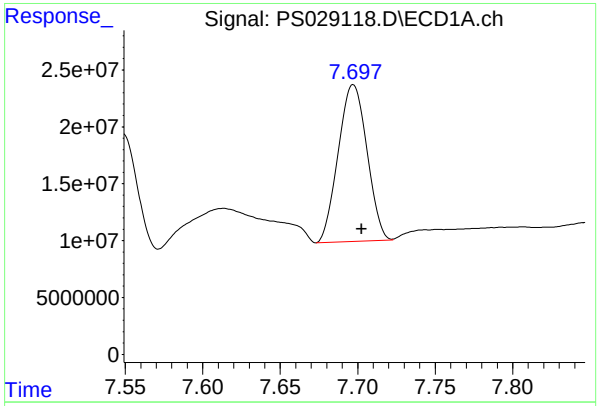
#6 MCPP

R.T.: 7.549 min
Delta R.T.: -0.005 min
Response: 122908885
Conc: 17.52 ug/ml



#6 MCPP

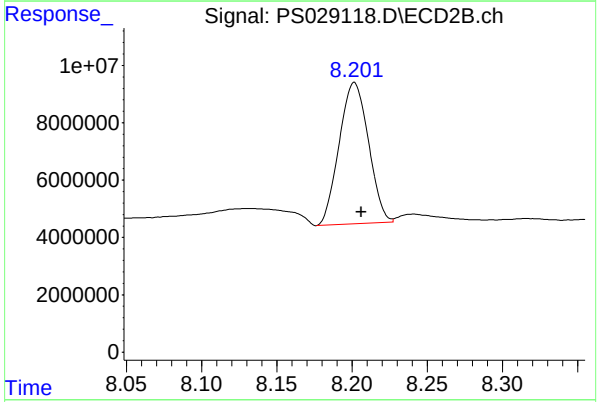
R.T.: 7.962 min
Delta R.T.: -0.003 min
Response: 46510552
Conc: 18.76 ug/ml



#7 MCPA

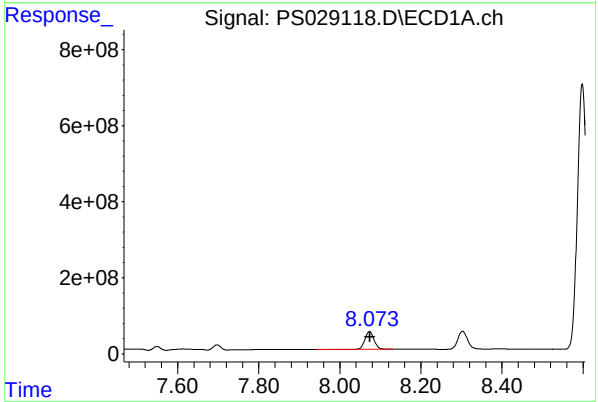
R.T.: 7.697 min
Delta R.T.: -0.005 min
Response: 177894242
Conc: 18.48 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



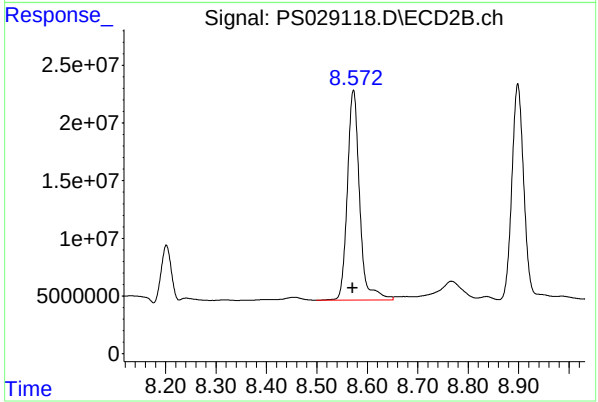
#7 MCPA

R.T.: 8.202 min
Delta R.T.: -0.005 min
Response: 66885235
Conc: 19.10 ug/ml



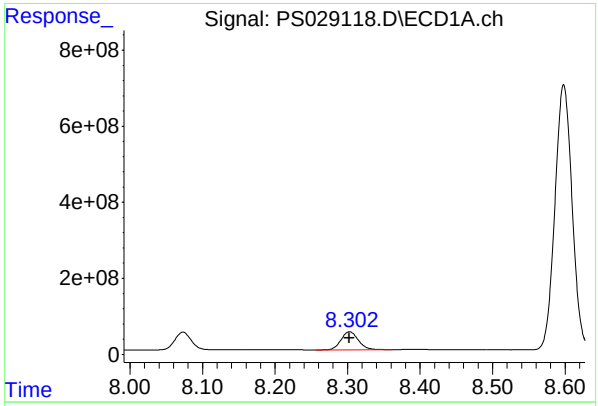
#8 DICHLORPROP

R.T.: 8.073 min
Delta R.T.: 0.000 min
Response: 735875842
Conc: 242.59 ng/ml



#8 DICHLORPROP

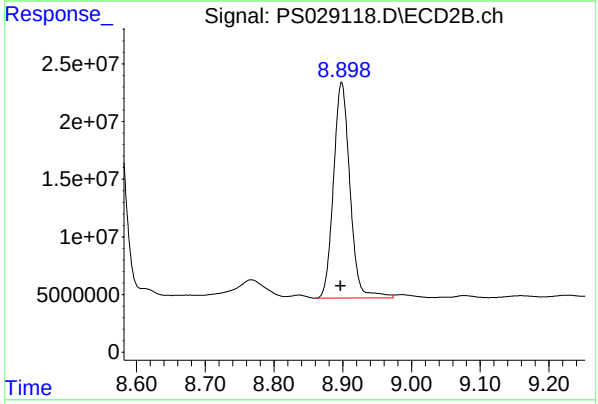
R.T.: 8.573 min
Delta R.T.: 0.002 min
Response: 308241788
Conc: 230.62 ng/ml



#9 2,4-D

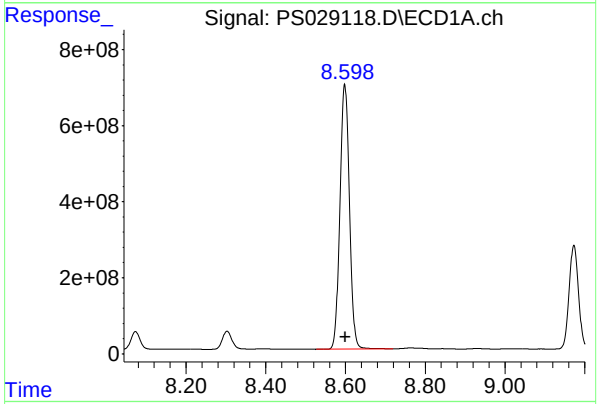
R.T.: 8.303 min
Delta R.T.: 0.000 min
Response: 779319602
Conc: 240.70 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



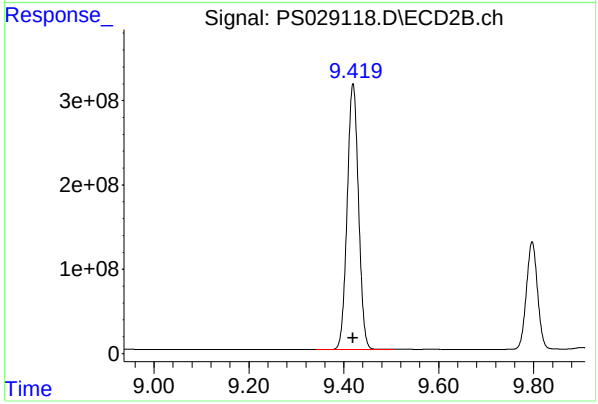
#9 2,4-D

R.T.: 8.898 min
Delta R.T.: 0.001 min
Response: 311147200
Conc: 222.55 ng/ml



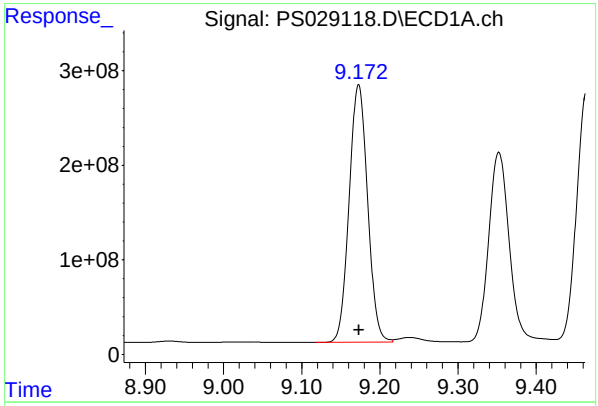
#10 Pentachlorophenol

R.T.: 8.598 min
Delta R.T.: 0.000 min
Response: 11502237353
Conc: 238.38 ng/ml



#10 Pentachlorophenol

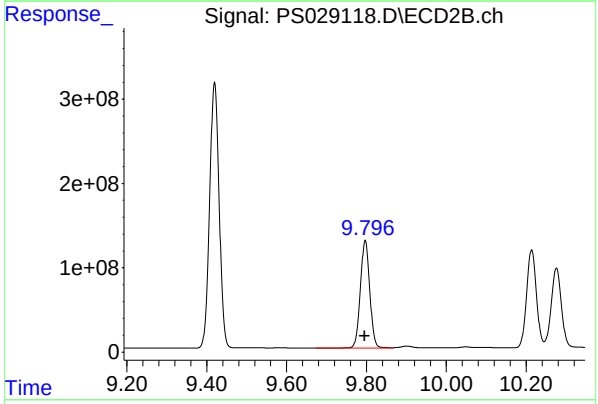
R.T.: 9.419 min
Delta R.T.: 0.000 min
Response: 5239609410
Conc: 219.30 ng/ml



#11 2,4,5-TP (SILVEX)

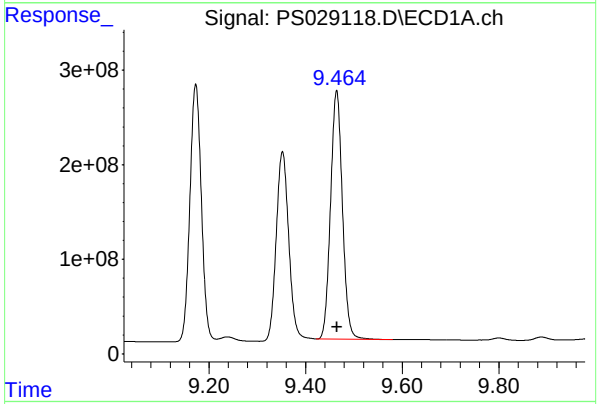
R.T.: 9.173 min
Delta R.T.: 0.000 min
Response: 4474427760
Conc: 237.53 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



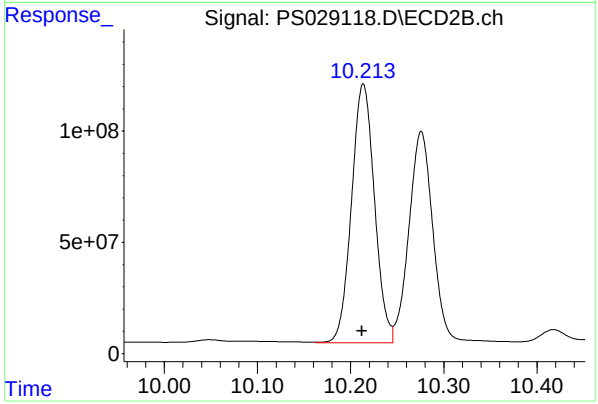
#11 2,4,5-TP (SILVEX)

R.T.: 9.797 min
Delta R.T.: 0.000 min
Response: 2100701647
Conc: 218.02 ng/ml



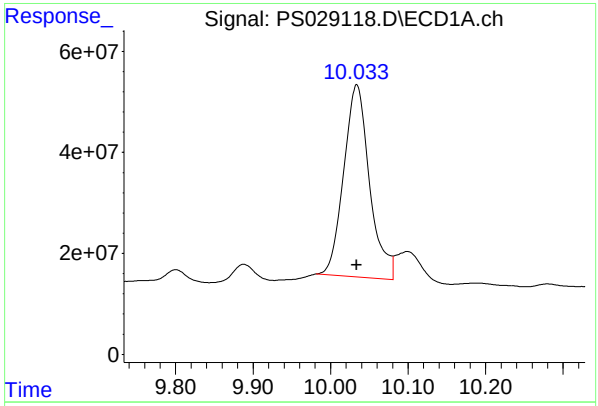
#12 2,4,5-T

R.T.: 9.464 min
Delta R.T.: 0.000 min
Response: 4468314015
Conc: 236.56 ng/ml



#12 2,4,5-T

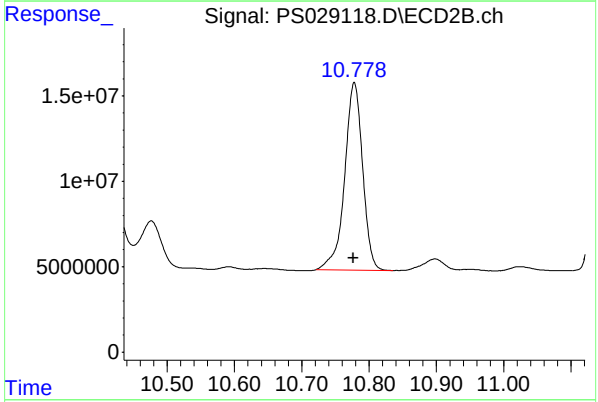
R.T.: 10.214 min
Delta R.T.: 0.002 min
Response: 1998922197
Conc: 219.93 ng/ml



#13 2,4-DB

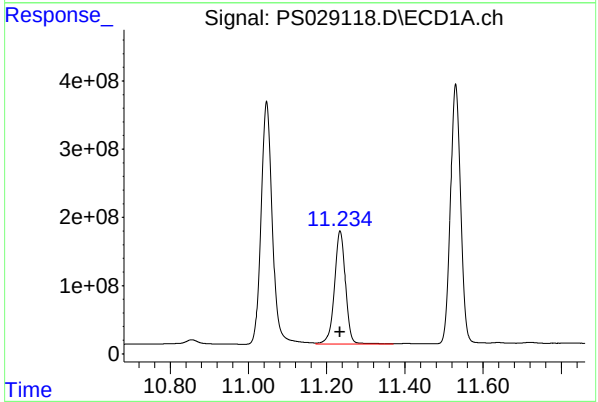
R.T.: 10.034 min
Delta R.T.: 0.000 min
Response: 879451434
Conc: 249.29 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



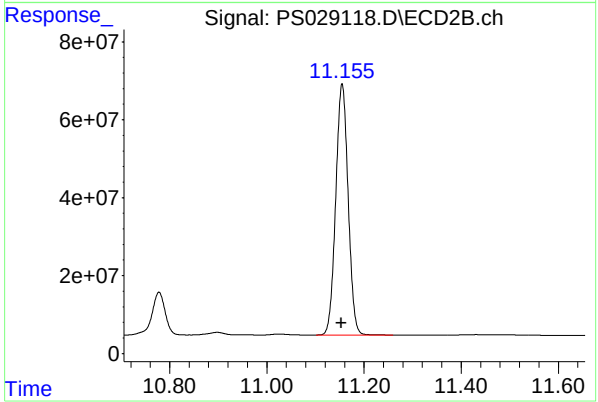
#13 2,4-DB

R.T.: 10.778 min
Delta R.T.: 0.002 min
Response: 203411949
Conc: 219.61 ng/ml



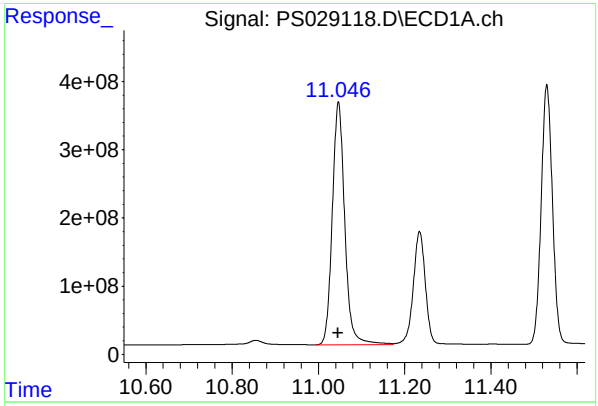
#14 DINOSEB

R.T.: 11.235 min
Delta R.T.: 0.000 min
Response: 3250227540
Conc: 234.52 ng/ml



#14 DINOSEB

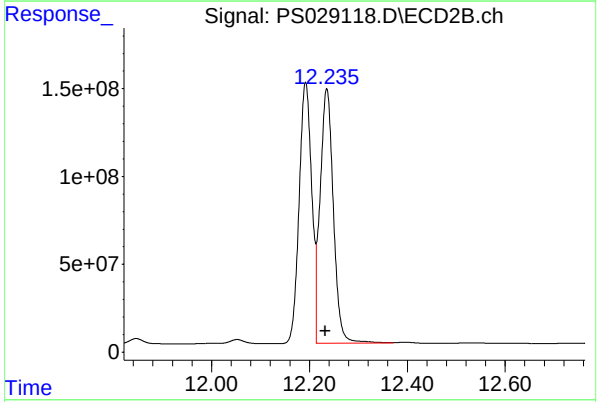
R.T.: 11.155 min
Delta R.T.: 0.001 min
Response: 1139846209
Conc: 213.96 ng/ml



#15 Picloram

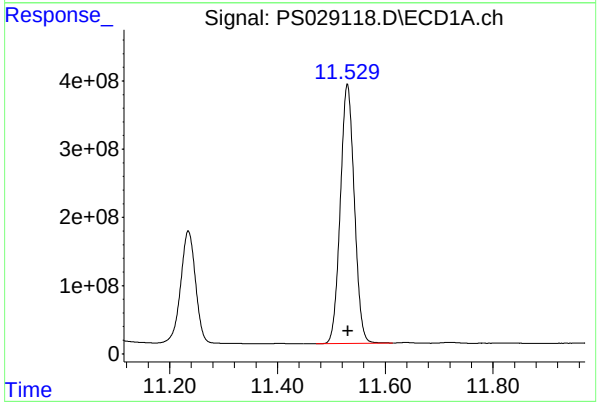
R.T.: 11.047 min
Delta R.T.: 0.001 min
Response: 7142583315
Conc: 229.65 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200



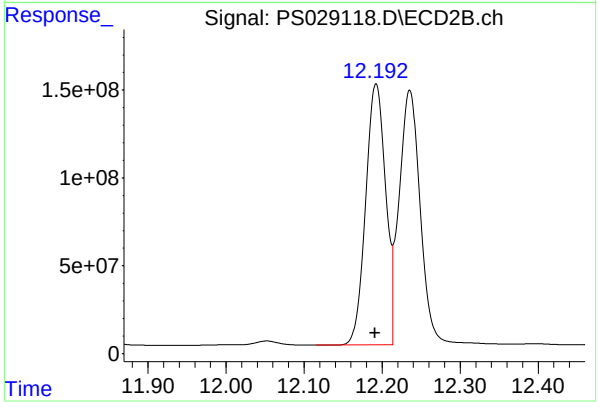
#15 Picloram

R.T.: 12.235 min
Delta R.T.: 0.003 min
Response: 2733024404
Conc: 198.99 ng/ml



#16 DCPA

R.T.: 11.530 min
Delta R.T.: -0.001 min
Response: 6856212465
Conc: 242.90 ng/ml



#16 DCPA

R.T.: 12.192 min
Delta R.T.: 0.001 min
Response: 2641896133
Conc: 216.56 ng/ml

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021125\
Data File : PS029119.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Feb 2025 18:20
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 12 01:06:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021125.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 01:05:26 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	7.186	7.665	1372.0E6	511.7E6	518.589	501.361
		Target Compounds						
1)	T	Dalapon	2.612	2.658	1375.2E6	834.9E6	446.728	439.824
2)	T	3,5-DICHL...	6.365	6.633	1826.2E6	696.2E6	478.717	466.962
3)	T	4-Nitroph...	6.984	7.195	747.4E6	374.2E6	455.240	446.751
5)	T	DICAMBA	7.371	7.861	5527.7E6	2505.2E6	469.598	459.827
6)	T	MCPP	7.551	7.964	308.0E6	111.0E6	43.918	44.784
7)	T	MCPA	7.700	8.204	424.6E6	156.0E6	44.116	44.542
8)	T	DICHLORPROP	8.073	8.571	1460.7E6	617.2E6	481.545	461.750
9)	T	2,4-D	8.302	8.898	1562.7E6	651.6E6	482.655	466.049
10)	T	Pentachlo...	8.599	9.420	23486.5E6	11393.6E6	486.753	476.868
11)	T	2,4,5-TP ...	9.173	9.797	9121.8E6	4532.4E6	484.231	470.379
12)	T	2,4,5-T	9.464	10.213	9063.2E6	4313.5E6	479.819	474.594
13)	T	2,4-DB	10.034	10.777	1714.1E6	432.8E6	485.885	467.292
14)	T	DINOSEB	11.235	11.155	6544.5E6	2424.8E6	472.219	455.158
15)	T	Picloram	11.045	12.235	14933.1E6	6288.3E6	480.129	457.855
16)	T	DCPA	11.530	12.192	13864.8E6	5819.5E6	491.206	477.045

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

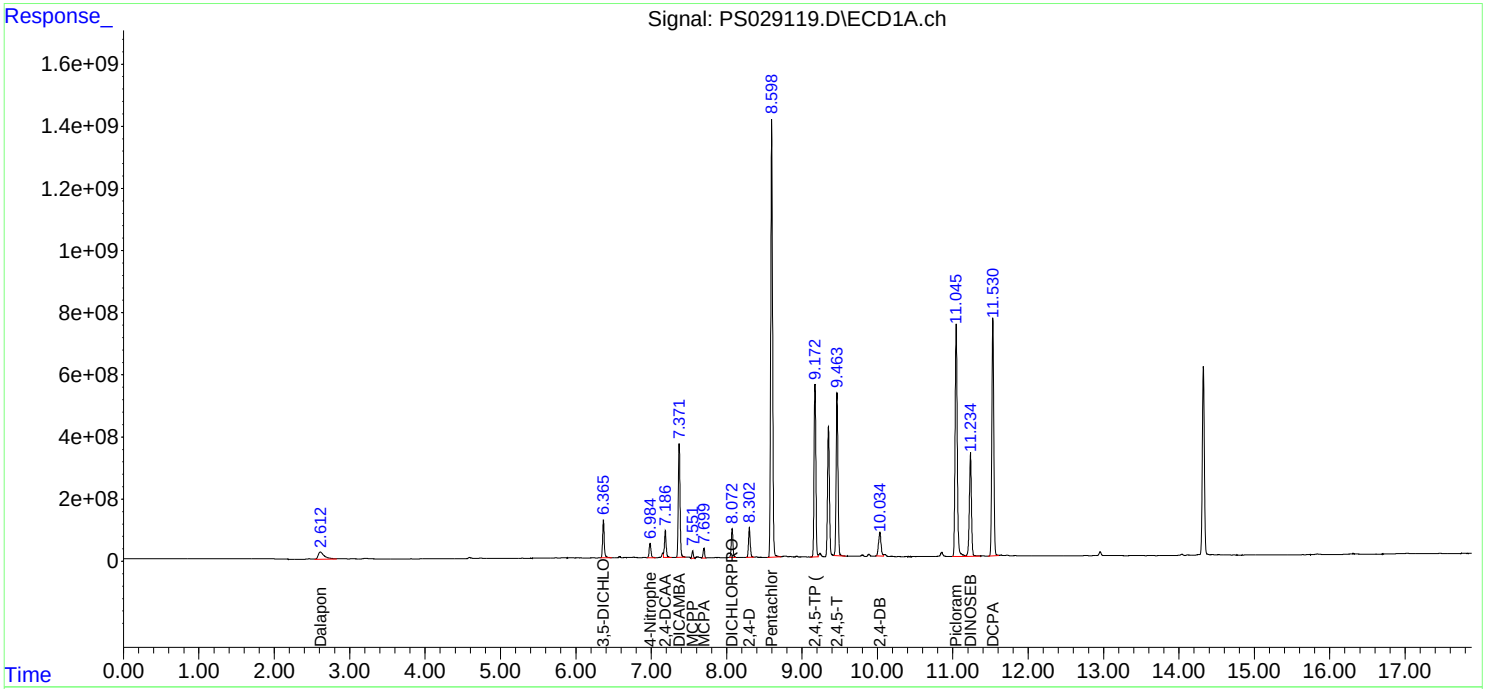
ICAL Form

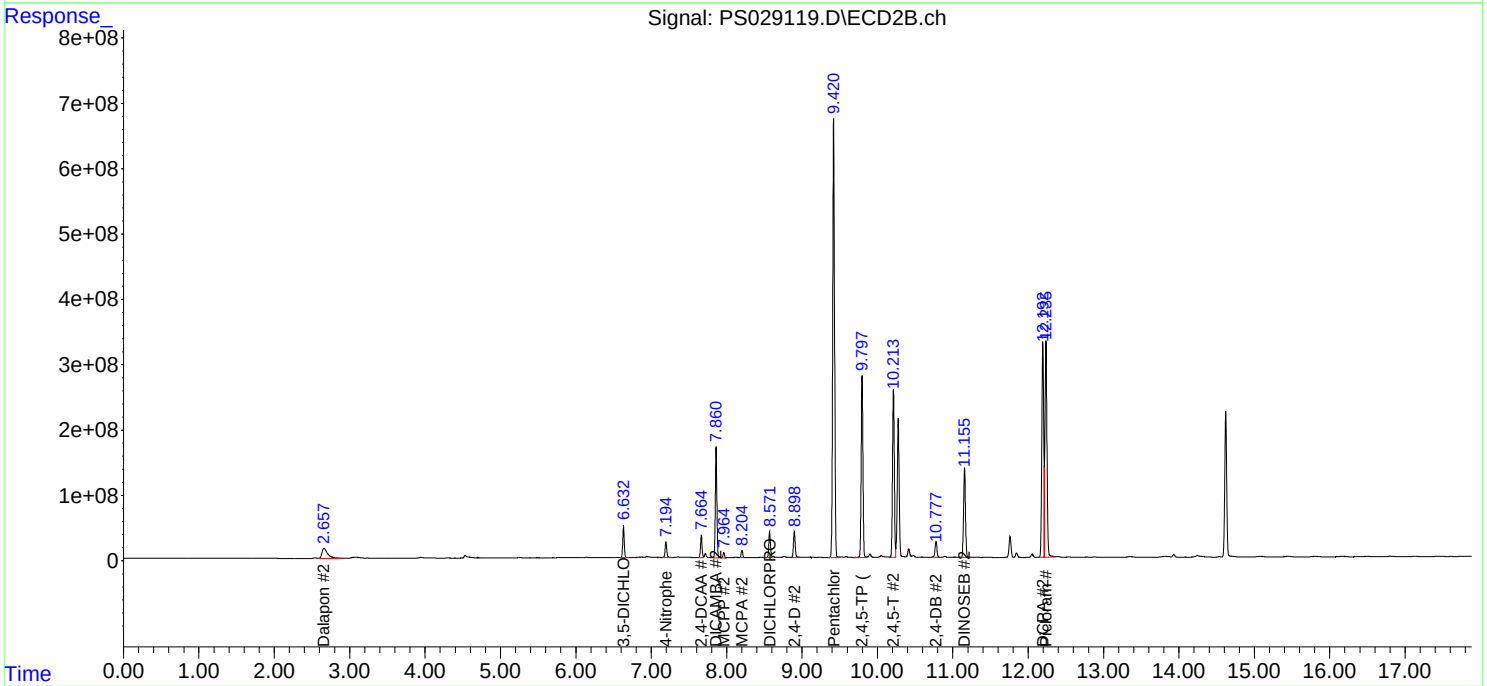
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021125\
Data File : PS029119.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Feb 2025 18:20
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 4 Sample Multiplier: 1

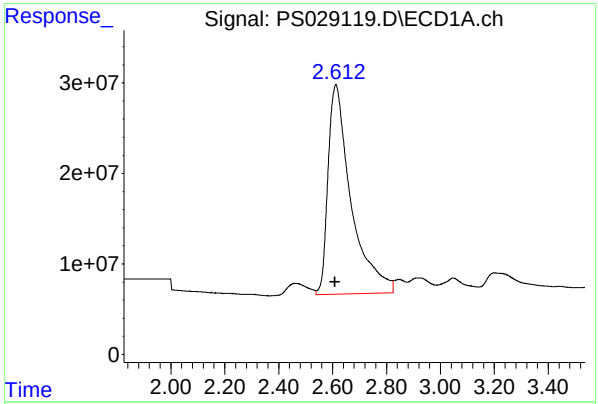
Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 12 01:06:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021125.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 01:05:26 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



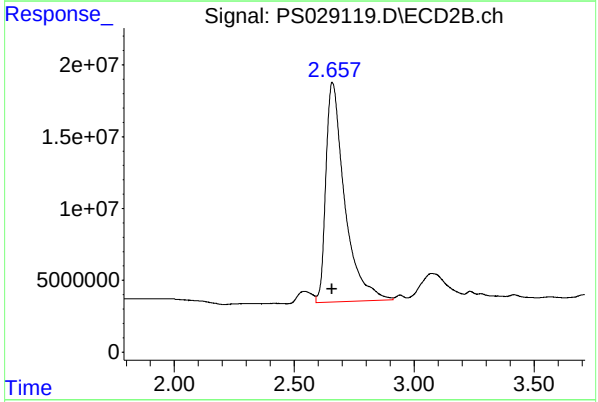




#1 Dalapon

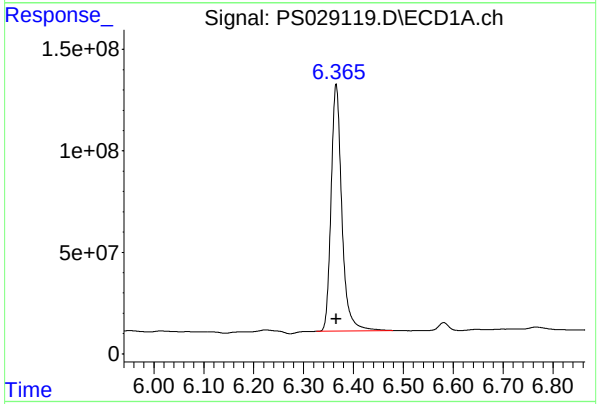
R.T.: 2.612 min
Delta R.T.: 0.003 min
Response: 1375155157
Conc: 446.73 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



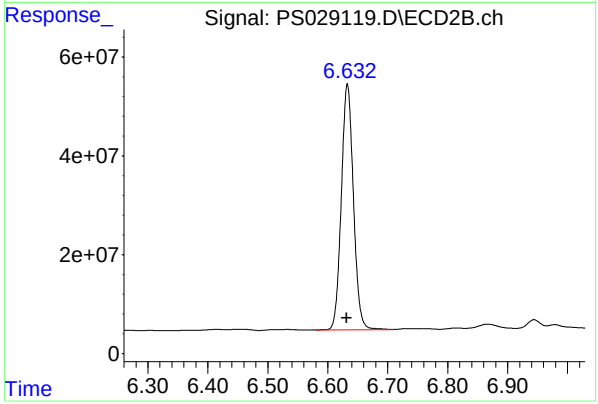
#1 Dalapon

R.T.: 2.658 min
Delta R.T.: 0.000 min
Response: 834924593
Conc: 439.82 ng/ml



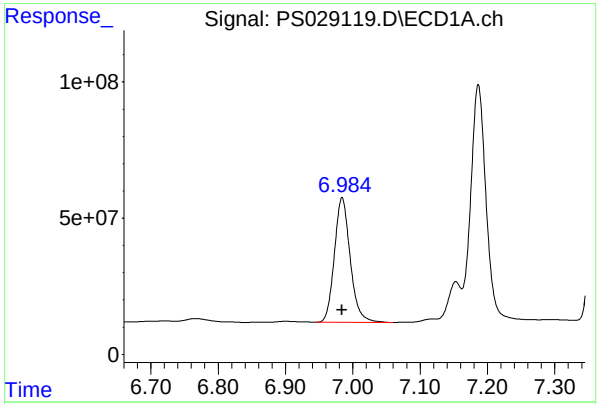
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.365 min
Delta R.T.: 0.000 min
Response: 1826218970
Conc: 478.72 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

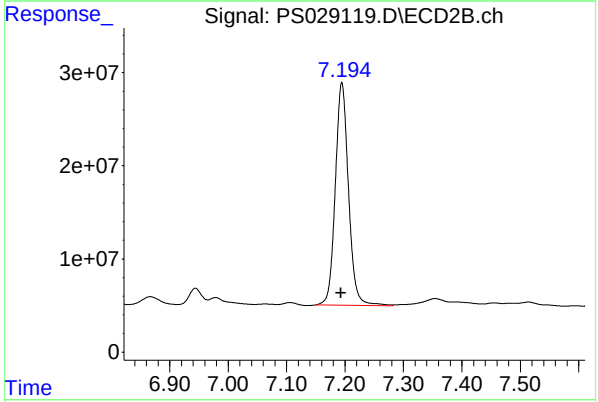
R.T.: 6.633 min
Delta R.T.: 0.000 min
Response: 696214724
Conc: 466.96 ng/ml



#3 4-Nitrophenol

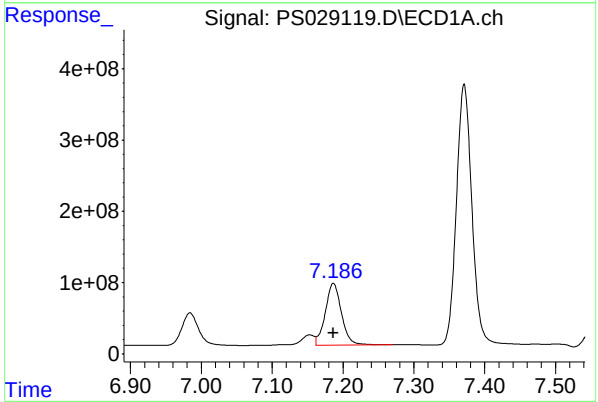
R.T.: 6.984 min
Delta R.T.: 0.000 min
Response: 747399716
Conc: 455.24 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



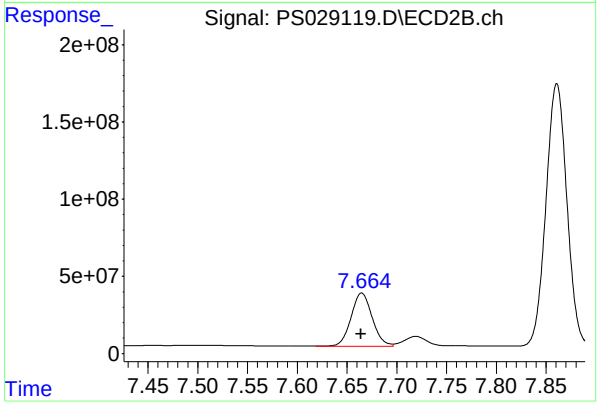
#3 4-Nitrophenol

R.T.: 7.195 min
Delta R.T.: 0.001 min
Response: 374190008
Conc: 446.75 ng/ml



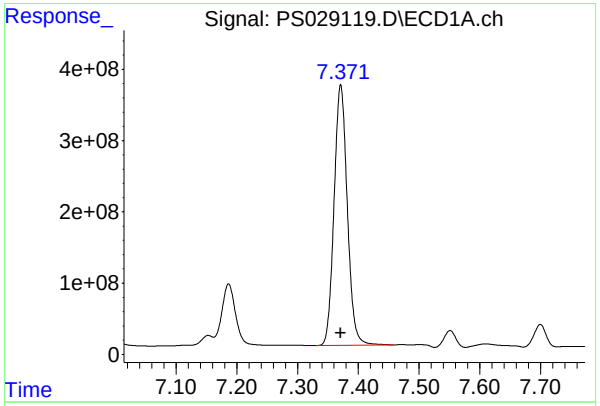
#4 2,4-DCAA

R.T.: 7.186 min
Delta R.T.: 0.000 min
Response: 1371966447
Conc: 518.59 ng/ml



#4 2,4-DCAA

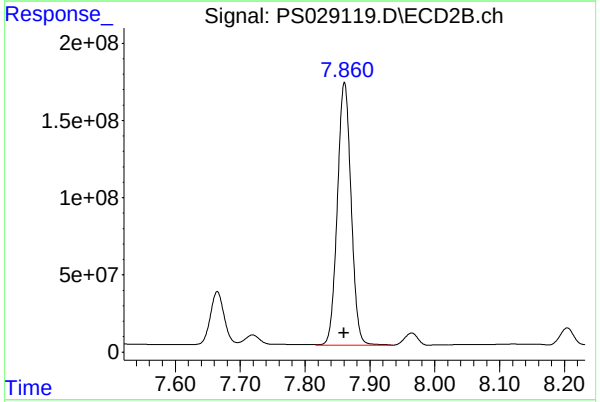
R.T.: 7.665 min
Delta R.T.: 0.000 min
Response: 511705240
Conc: 501.36 ng/ml



#5 DICAMBA

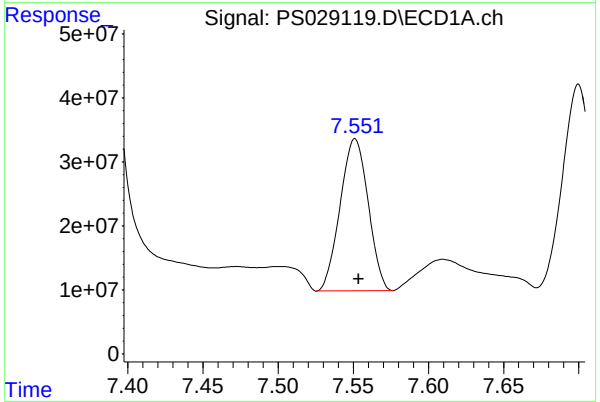
R.T.: 7.371 min
Delta R.T.: 0.000 min
Response: 5527656721
Conc: 469.60 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



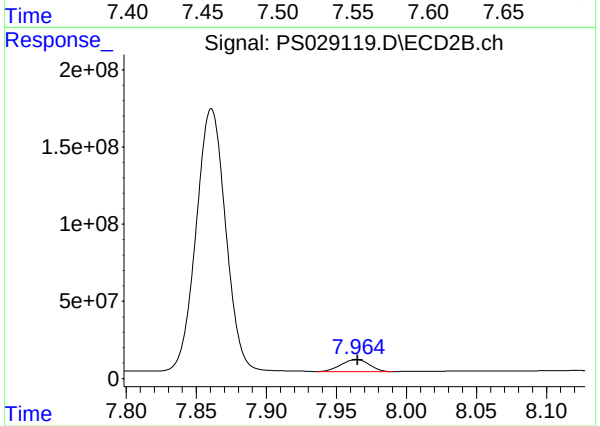
#5 DICAMBA

R.T.: 7.861 min
Delta R.T.: 0.001 min
Response: 2505225166
Conc: 459.83 ng/ml



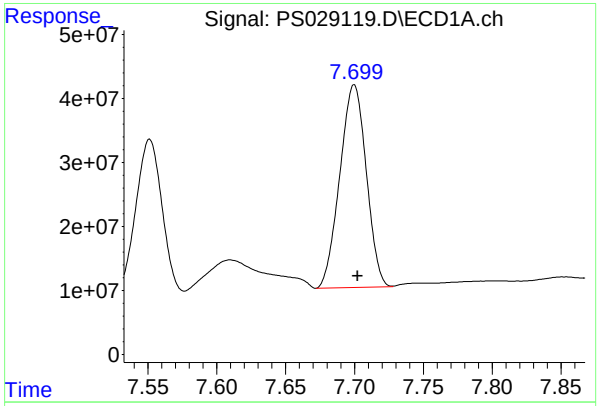
#6 MCPP

R.T.: 7.551 min
Delta R.T.: -0.002 min
Response: 308032669
Conc: 43.92 ug/ml



#6 MCPP

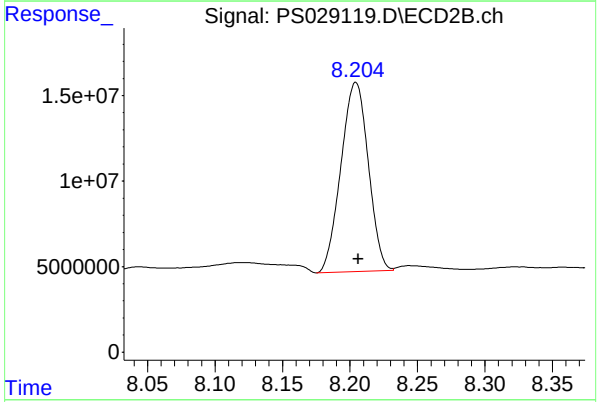
R.T.: 7.964 min
Delta R.T.: 0.000 min
Response: 111030711
Conc: 44.78 ug/ml



#7 MCPA

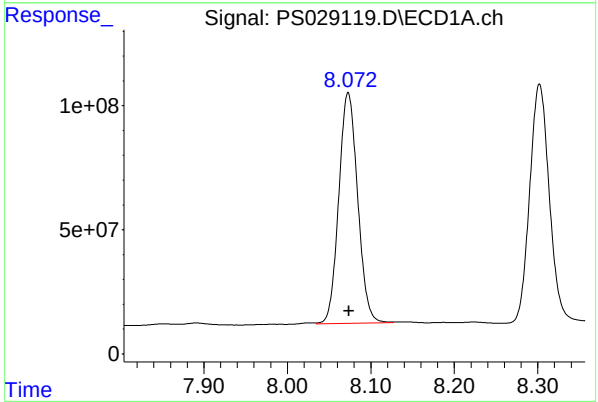
R.T.: 7.700 min
Delta R.T.: -0.003 min
Response: 424572680
Conc: 44.12 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



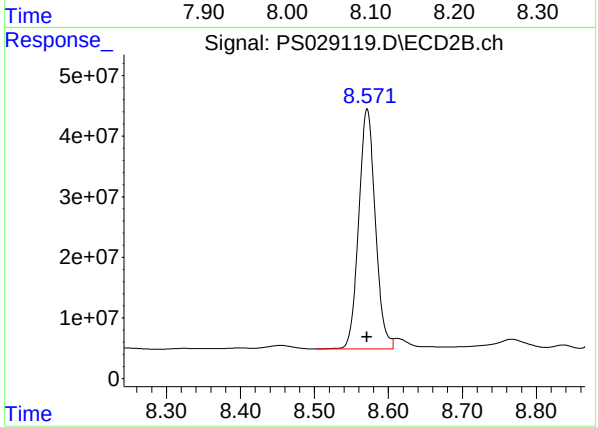
#7 MCPA

R.T.: 8.204 min
Delta R.T.: -0.002 min
Response: 156013459
Conc: 44.54 ug/ml



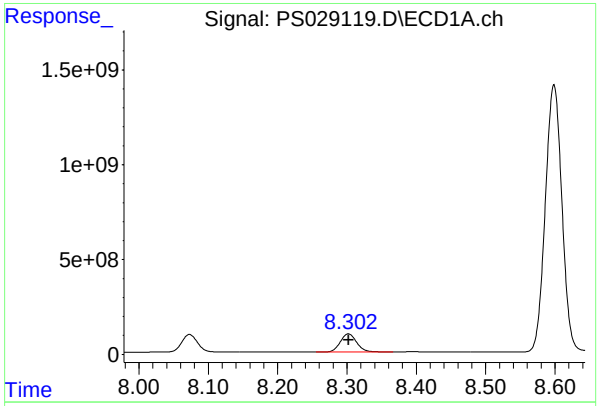
#8 DICHLORPROP

R.T.: 8.073 min
Delta R.T.: 0.000 min
Response: 1460704483
Conc: 481.55 ng/ml



#8 DICHLORPROP

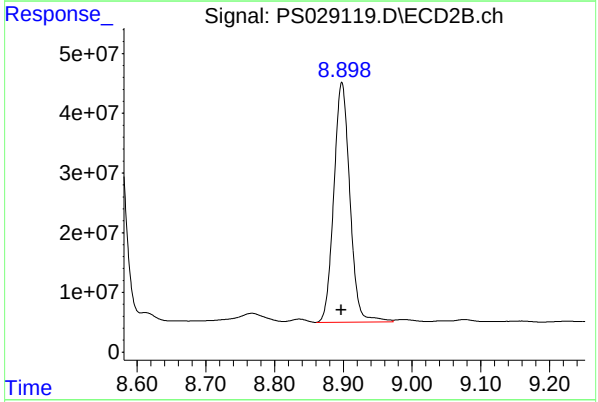
R.T.: 8.571 min
Delta R.T.: 0.000 min
Response: 617157025
Conc: 461.75 ng/ml



#9 2,4-D

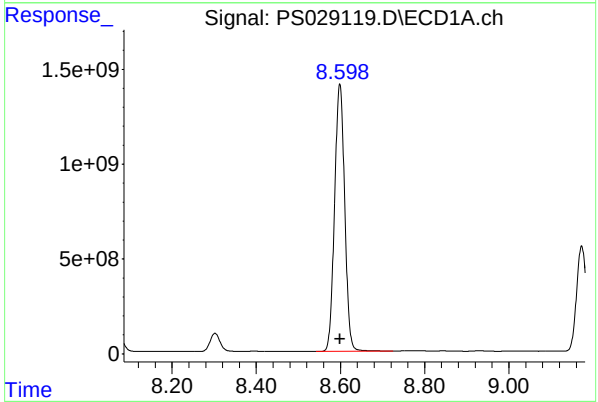
R.T.: 8.302 min
Delta R.T.: 0.000 min
Response: 1562678050
Conc: 482.65 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



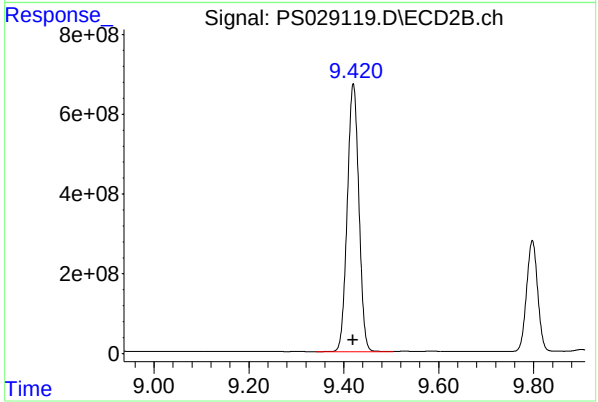
#9 2,4-D

R.T.: 8.898 min
Delta R.T.: 0.000 min
Response: 651589330
Conc: 466.05 ng/ml



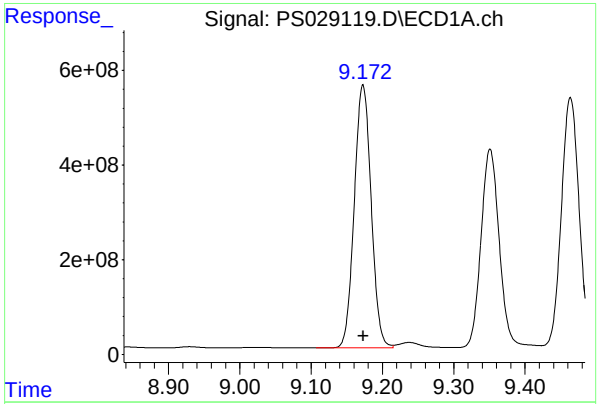
#10 Pentachlorophenol

R.T.: 8.599 min
Delta R.T.: 0.000 min
Response: 23486502407
Conc: 486.75 ng/ml



#10 Pentachlorophenol

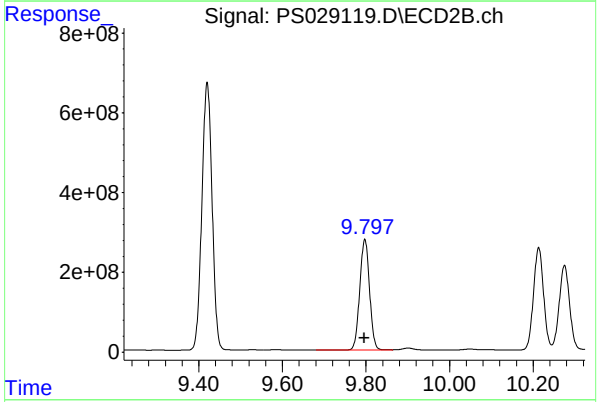
R.T.: 9.420 min
Delta R.T.: 0.001 min
Response: 11393568919
Conc: 476.87 ng/ml



#11 2,4,5-TP (SILVEX)

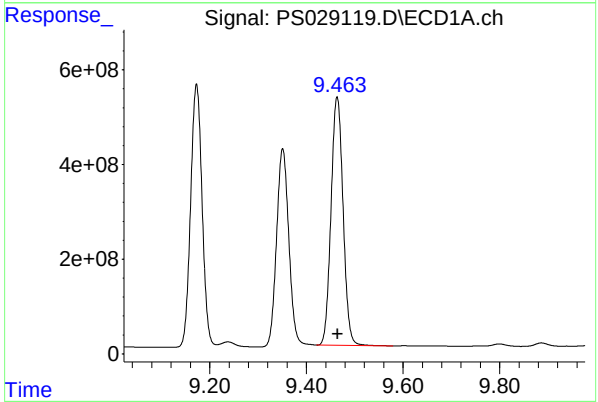
R.T.: 9.173 min
Delta R.T.: 0.000 min
Response: 9121776882
Conc: 484.23 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



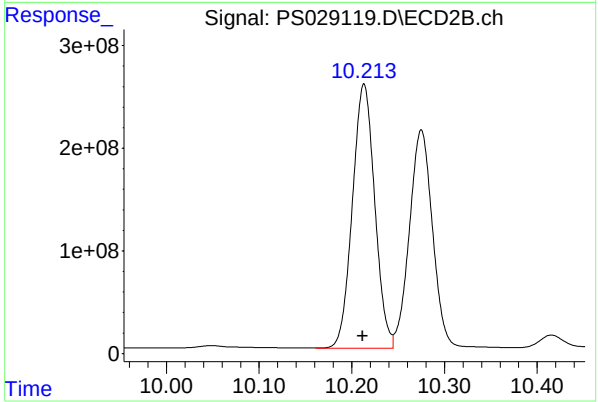
#11 2,4,5-TP (SILVEX)

R.T.: 9.797 min
Delta R.T.: 0.001 min
Response: 4532368047
Conc: 470.38 ng/ml



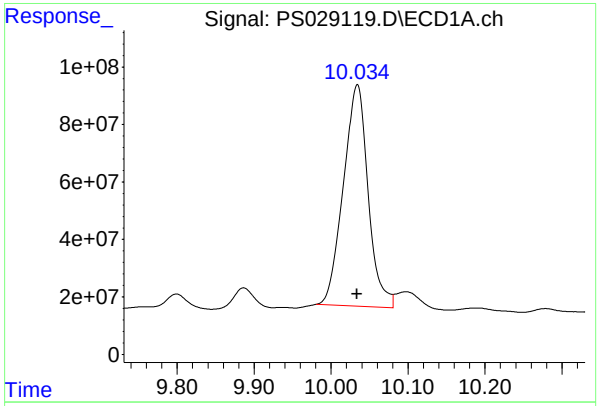
#12 2,4,5-T

R.T.: 9.464 min
Delta R.T.: 0.000 min
Response: 9063209027
Conc: 479.82 ng/ml



#12 2,4,5-T

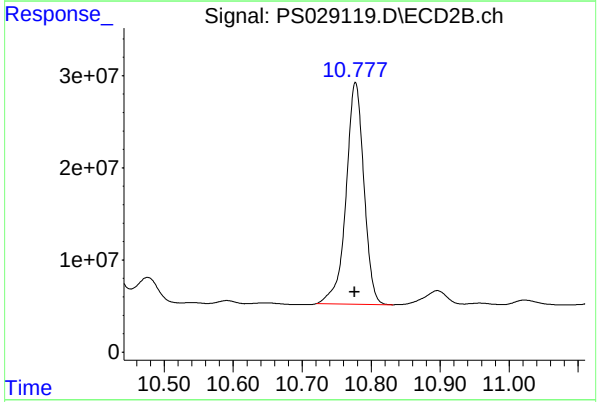
R.T.: 10.213 min
Delta R.T.: 0.001 min
Response: 4313531507
Conc: 474.59 ng/ml



#13 2,4-DB

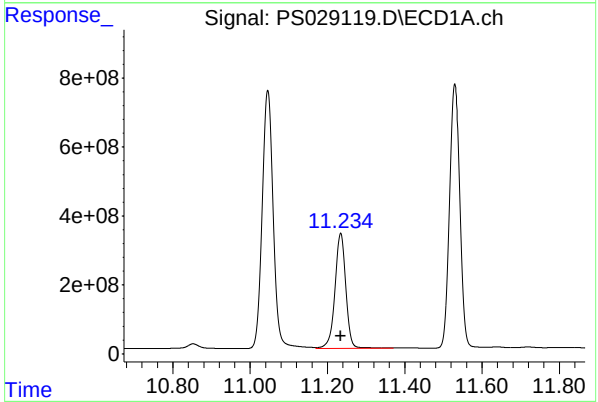
R.T.: 10.034 min
Delta R.T.: 0.000 min
Response: 1714093659
Conc: 485.88 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



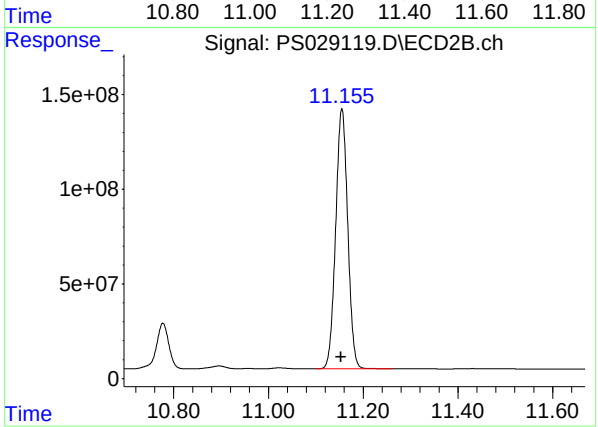
#13 2,4-DB

R.T.: 10.777 min
Delta R.T.: 0.000 min
Response: 432817435
Conc: 467.29 ng/ml



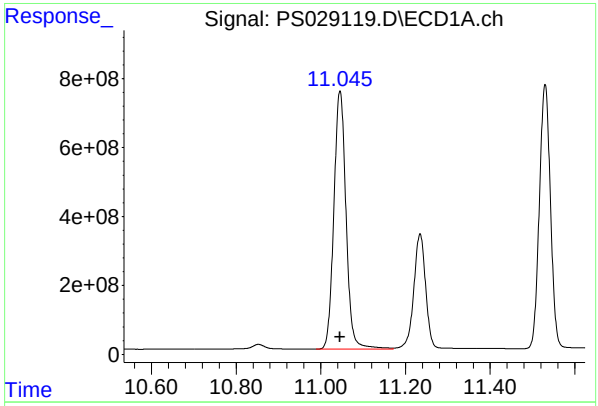
#14 DINOSEB

R.T.: 11.235 min
Delta R.T.: 0.000 min
Response: 6544515995
Conc: 472.22 ng/ml



#14 DINOSEB

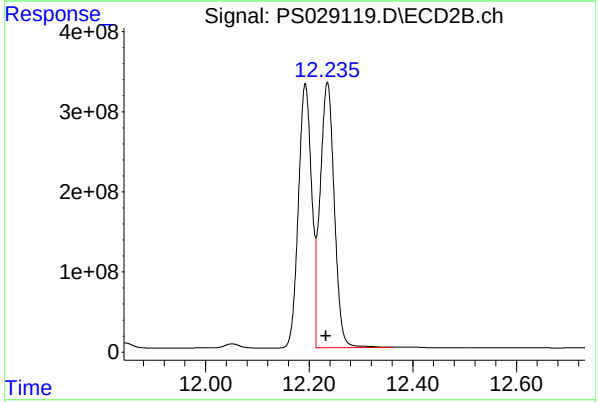
R.T.: 11.155 min
Delta R.T.: 0.001 min
Response: 2424786850
Conc: 455.16 ng/ml



#15 Picloram

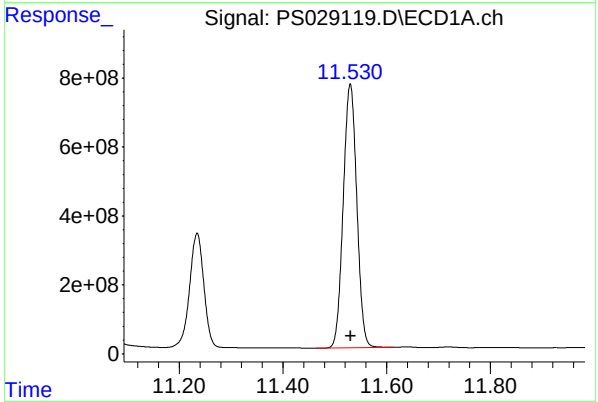
R.T.: 11.045 min
Delta R.T.: 0.000 min
Response: 14933088839
Conc: 480.13 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



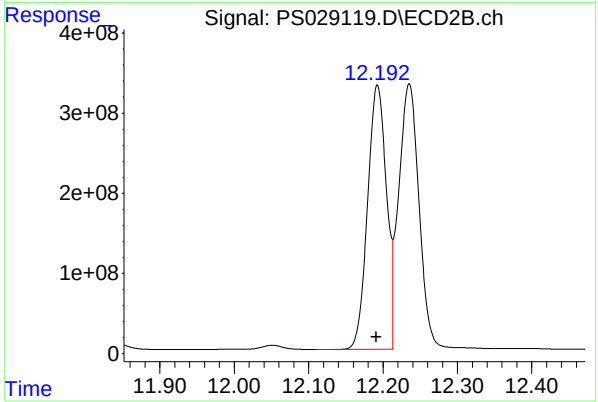
#15 Picloram

R.T.: 12.235 min
Delta R.T.: 0.003 min
Response: 6288304849
Conc: 457.85 ng/ml



#16 DCPA

R.T.: 11.530 min
Delta R.T.: 0.000 min
Response: 13864835014
Conc: 491.21 ng/ml



#16 DCPA

R.T.: 12.192 min
Delta R.T.: 0.002 min
Response: 5819525703
Conc: 477.04 ng/ml

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021125\
Data File : PS029120.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Feb 2025 18:44
Operator : AR\AJ
Sample : HSTDICC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 12 01:06:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021125.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 01:05:26 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	7.187	7.664	1984.2E6	765.5E6	750.000	750.000
		Target Compounds						
1)	T	Dalapon	2.609	2.658	2100.9E6	1295.6E6	682.500	682.500
2)	T	3,5-DICHL...	6.365	6.632	2660.8E6	1039.9E6	697.500	697.500
3)	T	4-Nitroph...	6.984	7.193	1120.5E6	571.6E6	682.500	682.500
5)	T	DICAMBA	7.371	7.860	8298.6E6	3841.0E6	705.000	705.000
6)	T	MCPP	7.554	7.965	494.5E6	174.8E6	70.500	70.500
7)	T	MCPA	7.702	8.206	671.3E6	244.3E6	69.750	69.750
8)	T	DICHLORPROP	8.074	8.571	2138.5E6	942.3E6	705.000	705.000
9)	T	2,4-D	8.302	8.897	2282.6E6	985.7E6	705.000	705.000
10)	T	Pentachlo...	8.599	9.419	34379.1E6	17023.4E6	712.500	712.500
11)	T	2,4,5-TP ...	9.173	9.796	13421.8E6	6865.3E6	712.500	712.500
12)	T	2,4,5-T	9.465	10.212	13458.3E6	6475.8E6	712.500	712.500
13)	T	2,4-DB	10.034	10.776	2513.5E6	659.9E6	712.500	712.500
14)	T	DINOSEB	11.235	11.154	9770.7E6	3755.8E6	705.000	705.000
15)	T	Picloram	11.046	12.233	22160.4E6	9785.7E6	712.500	712.500
16)	T	DCPA	11.531	12.191	20322.8E6	8783.4E6	720.000	720.000

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

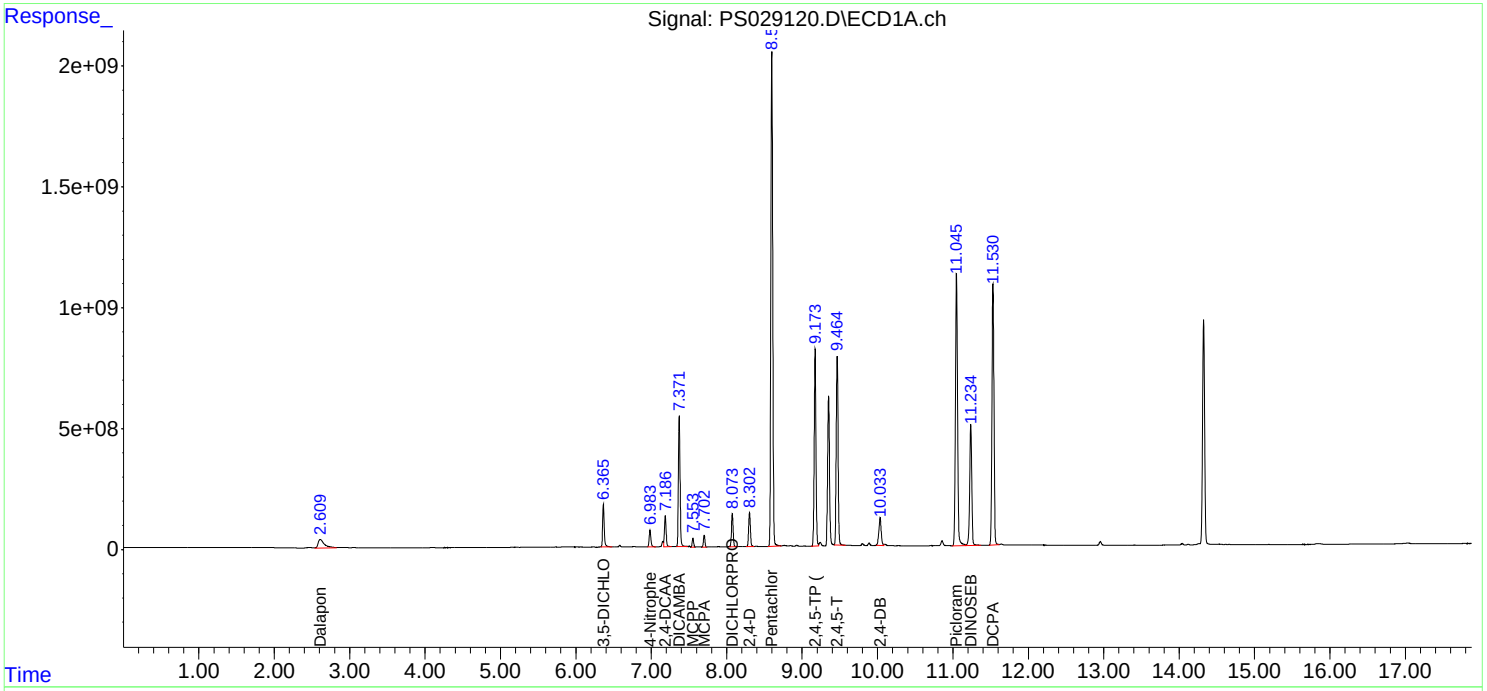
ICAL Form

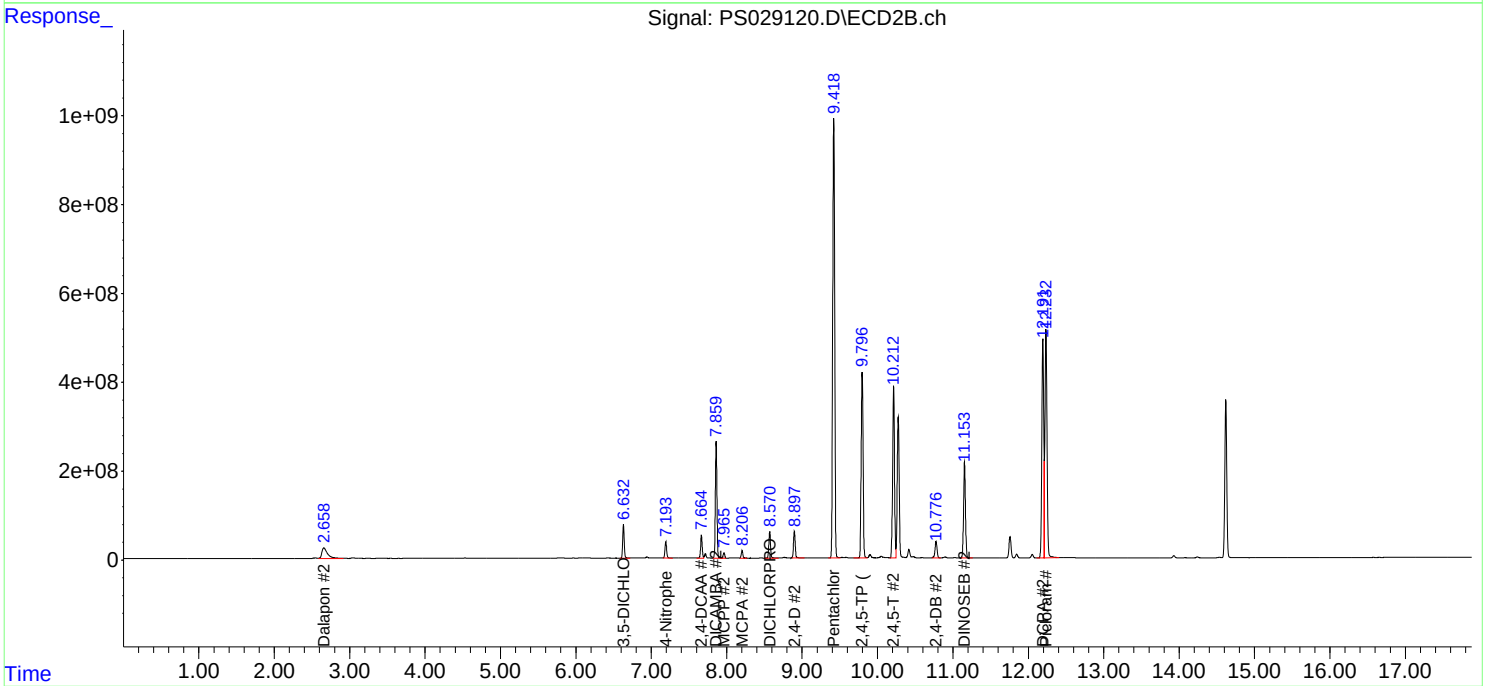
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021125\
Data File : PS029120.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Feb 2025 18:44
Operator : AR\AJ
Sample : HSTDICC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

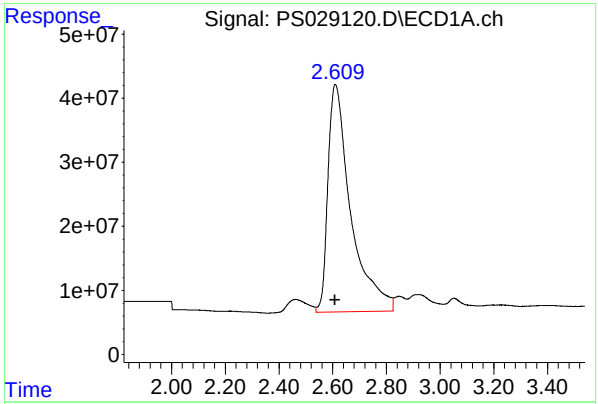
Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 12 01:06:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021125.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 01:05:26 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



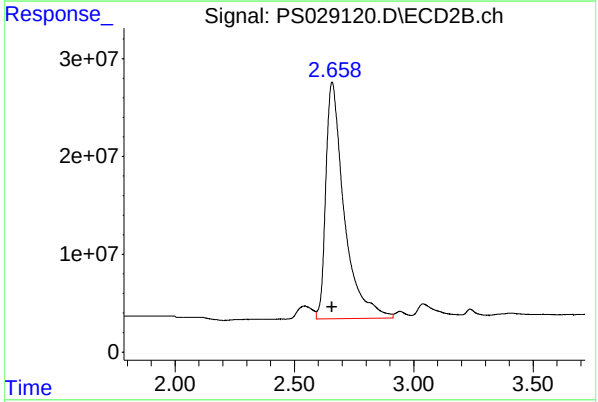




#1 Dalapon

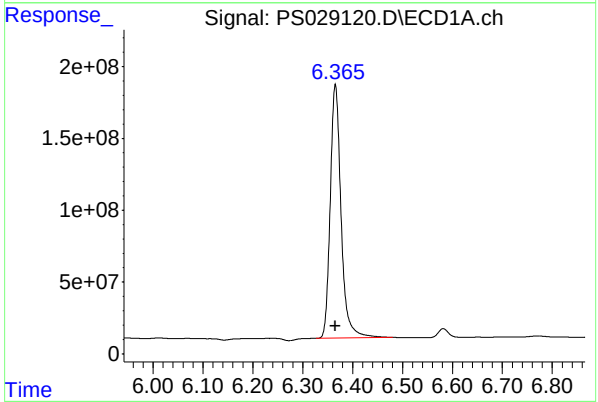
R.T.: 2.609 min
Delta R.T.: 0.000 min
Response: 2100928662
Conc: 682.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



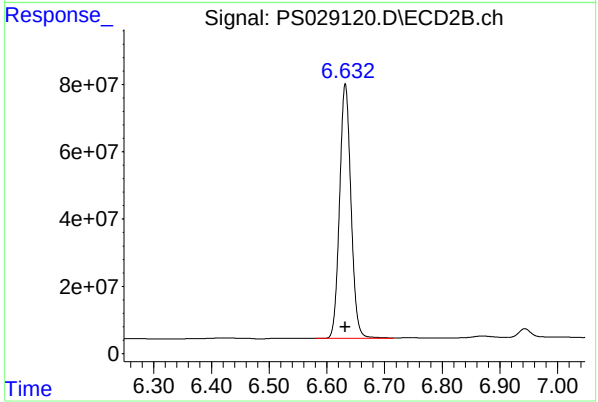
#1 Dalapon

R.T.: 2.658 min
Delta R.T.: 0.000 min
Response: 1295599938
Conc: 682.50 ng/ml



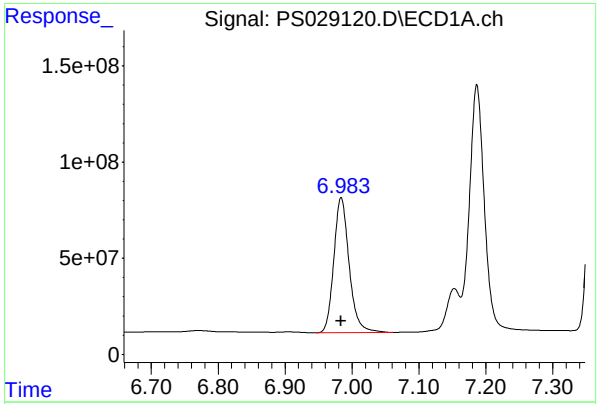
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.365 min
Delta R.T.: 0.000 min
Response: 2660836452
Conc: 697.50 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

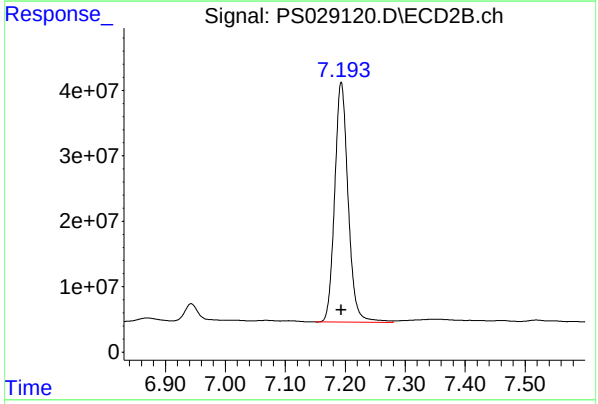
R.T.: 6.632 min
Delta R.T.: 0.000 min
Response: 1039934165
Conc: 697.50 ng/ml



#3 4-Nitrophenol

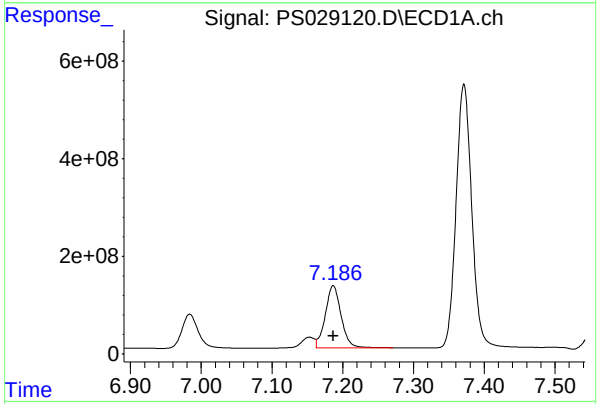
R.T.: 6.984 min
Delta R.T.: 0.000 min
Response: 1120508681
Conc: 682.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



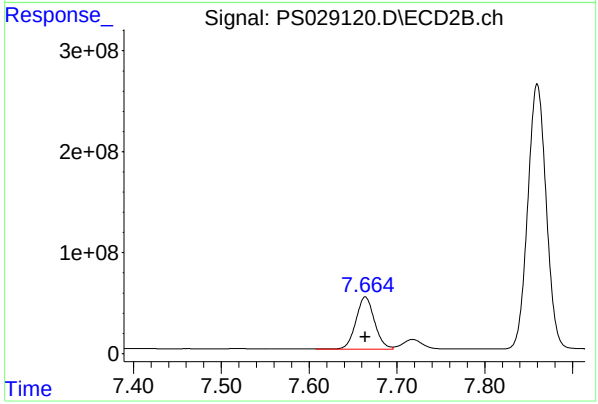
#3 4-Nitrophenol

R.T.: 7.193 min
Delta R.T.: 0.000 min
Response: 571649163
Conc: 682.50 ng/ml



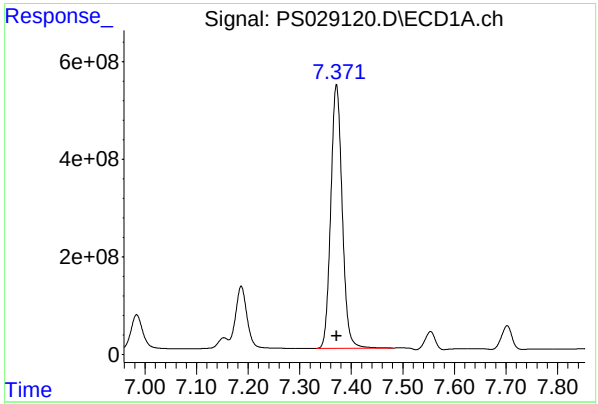
#4 2,4-DCAA

R.T.: 7.187 min
Delta R.T.: 0.000 min
Response: 1984180316
Conc: 750.00 ng/ml



#4 2,4-DCAA

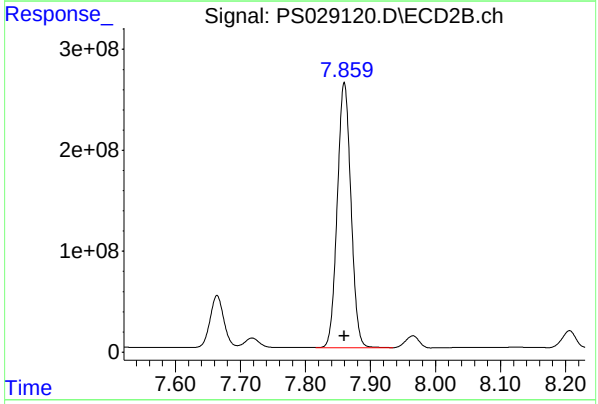
R.T.: 7.664 min
Delta R.T.: 0.000 min
Response: 765473573
Conc: 750.00 ng/ml



#5 DICAMBA

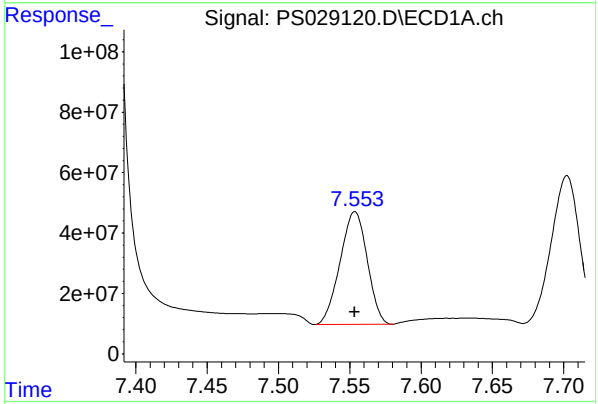
R.T.: 7.371 min
Delta R.T.: 0.000 min
Response: 8298590006
Conc: 705.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



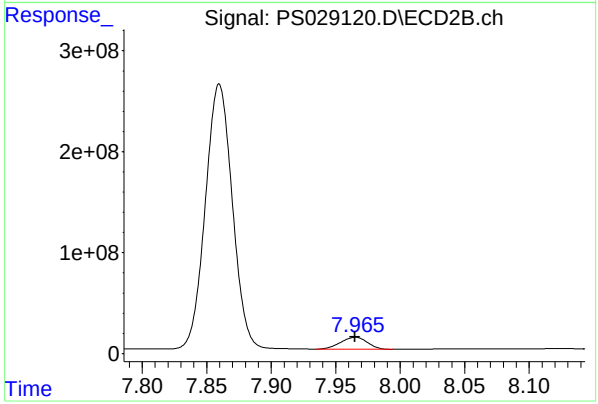
#5 DICAMBA

R.T.: 7.860 min
Delta R.T.: 0.000 min
Response: 3840976225
Conc: 705.00 ng/ml



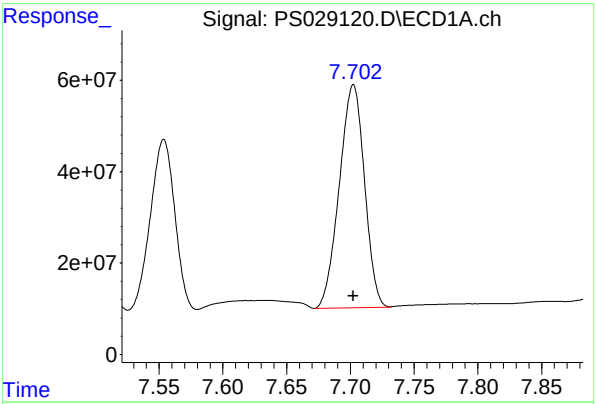
#6 MCPP

R.T.: 7.554 min
Delta R.T.: 0.000 min
Response: 494469876
Conc: 70.50 ug/ml



#6 MCPP

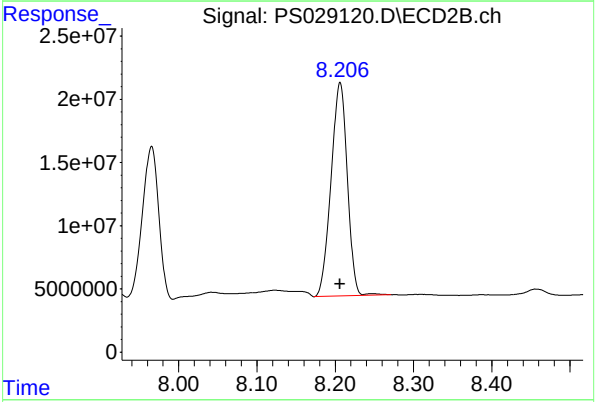
R.T.: 7.965 min
Delta R.T.: 0.000 min
Response: 174786272
Conc: 70.50 ug/ml



#7 MCPA

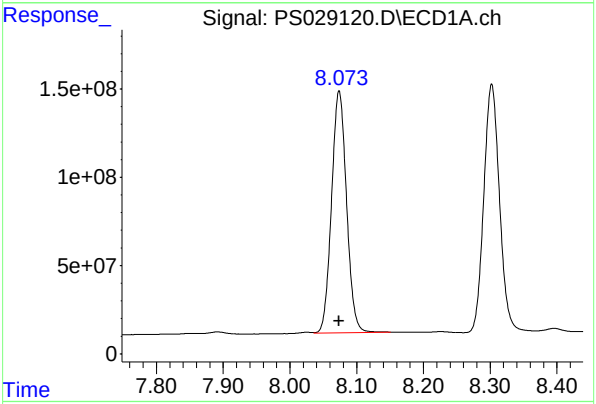
R.T.: 7.702 min
Delta R.T.: 0.000 min
Response: 671269570
Conc: 69.75 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



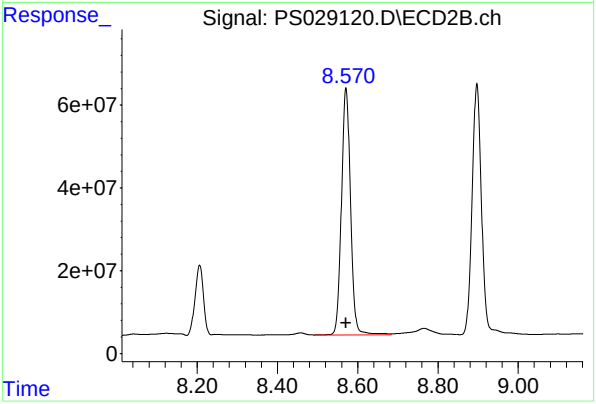
#7 MCPA

R.T.: 8.206 min
Delta R.T.: 0.000 min
Response: 244307275
Conc: 69.75 ug/ml



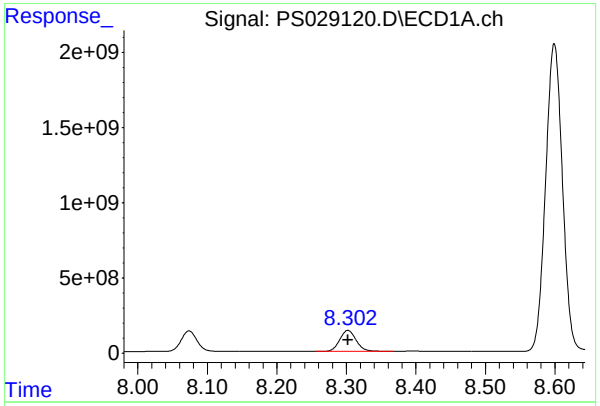
#8 DICHLORPROP

R.T.: 8.074 min
Delta R.T.: 0.000 min
Response: 2138525812
Conc: 705.00 ng/ml



#8 DICHLORPROP

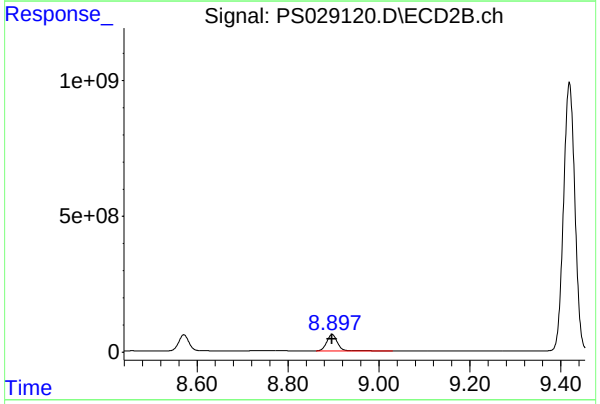
R.T.: 8.571 min
Delta R.T.: 0.000 min
Response: 942274828
Conc: 705.00 ng/ml



#9 2,4-D

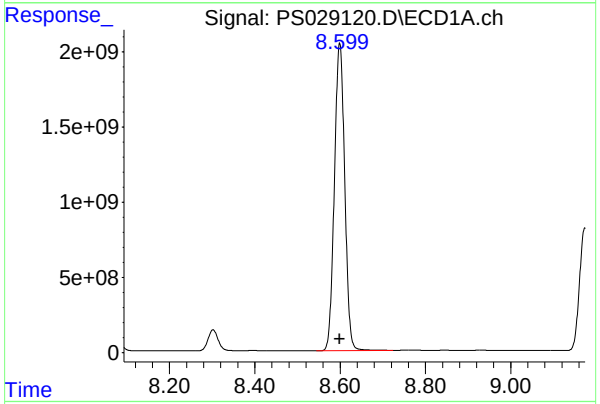
R.T.: 8.302 min
Delta R.T.: 0.000 min
Response: 2282559851
Conc: 705.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



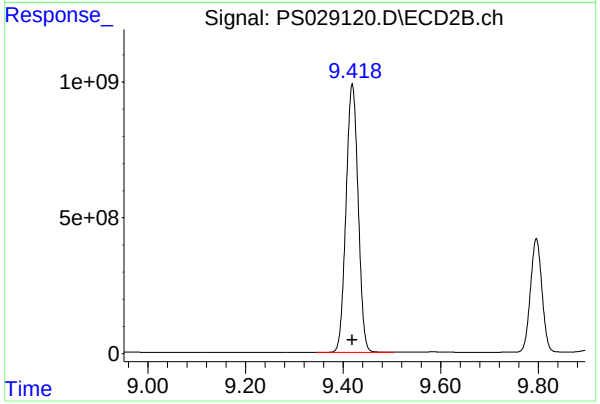
#9 2,4-D

R.T.: 8.897 min
Delta R.T.: 0.000 min
Response: 985670401
Conc: 705.00 ng/ml



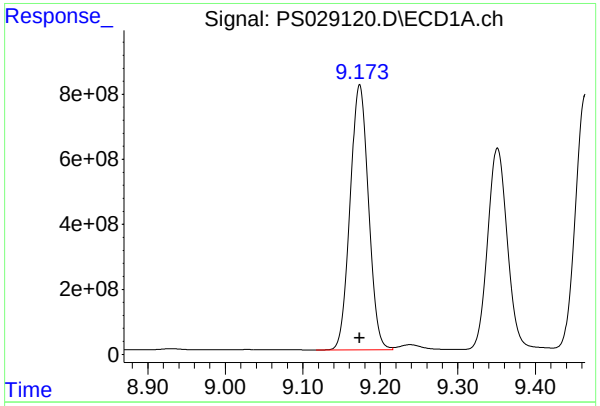
#10 Pentachlorophenol

R.T.: 8.599 min
Delta R.T.: 0.000 min
Response: 34379104848
Conc: 712.50 ng/ml



#10 Pentachlorophenol

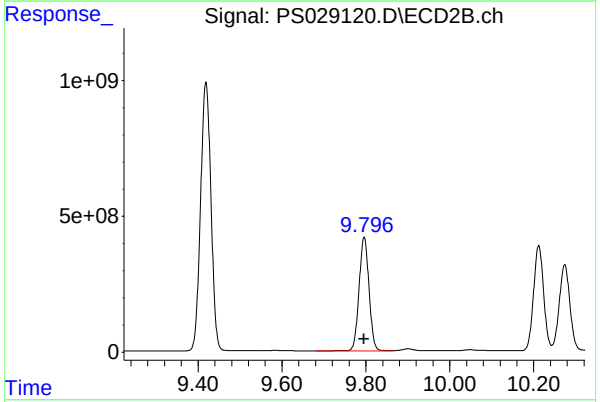
R.T.: 9.419 min
Delta R.T.: 0.000 min
Response: 17023417630
Conc: 712.50 ng/ml



#11 2,4,5-TP (SILVEX)

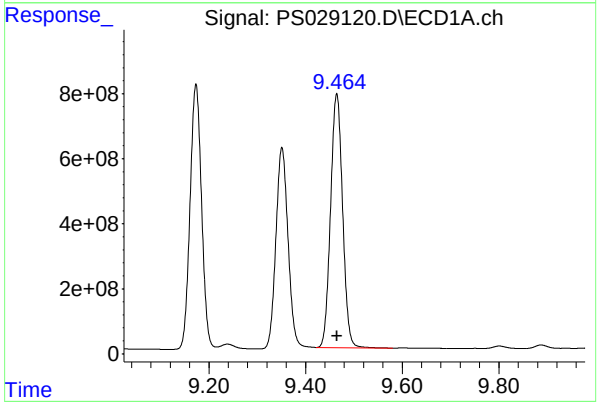
R.T.: 9.173 min
Delta R.T.: 0.000 min
Response: 13421822495
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



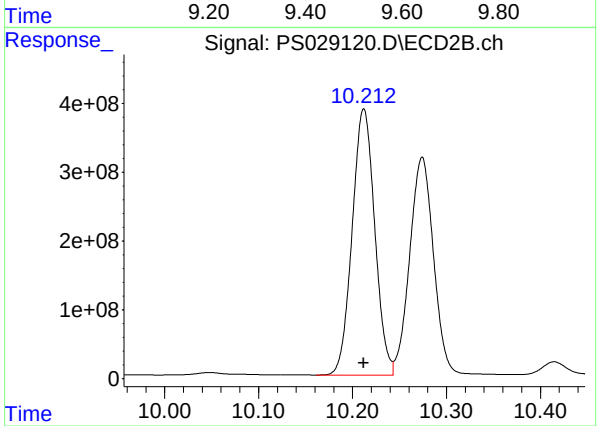
#11 2,4,5-TP (SILVEX)

R.T.: 9.796 min
Delta R.T.: 0.000 min
Response: 6865336451
Conc: 712.50 ng/ml



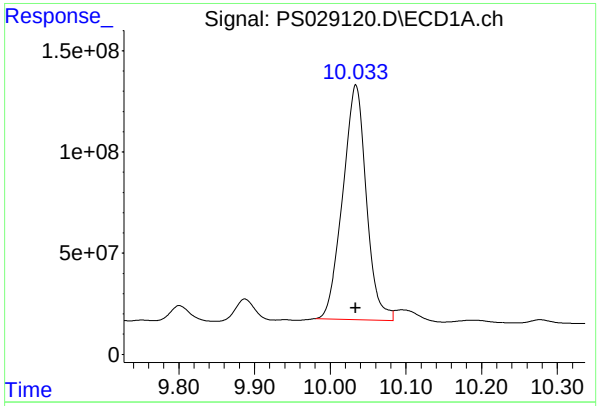
#12 2,4,5-T

R.T.: 9.465 min
Delta R.T.: 0.000 min
Response: 13458262231
Conc: 712.50 ng/ml



#12 2,4,5-T

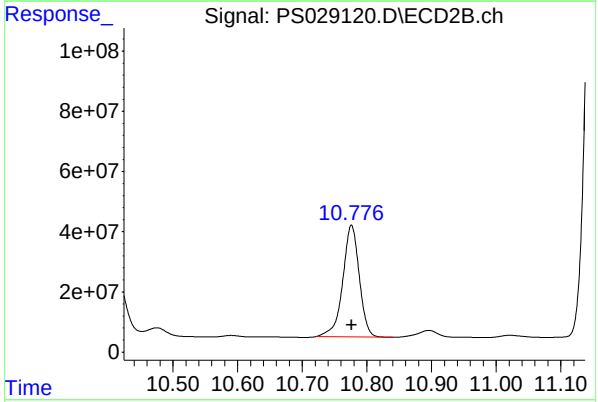
R.T.: 10.212 min
Delta R.T.: 0.000 min
Response: 6475828205
Conc: 712.50 ng/ml



#13 2,4-DB

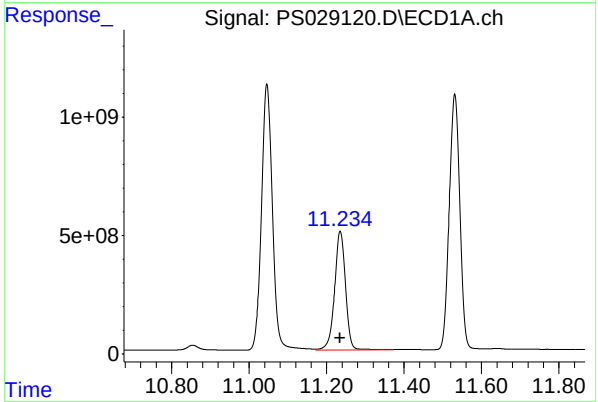
R.T.: 10.034 min
Delta R.T.: 0.000 min
Response: 2513541184
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



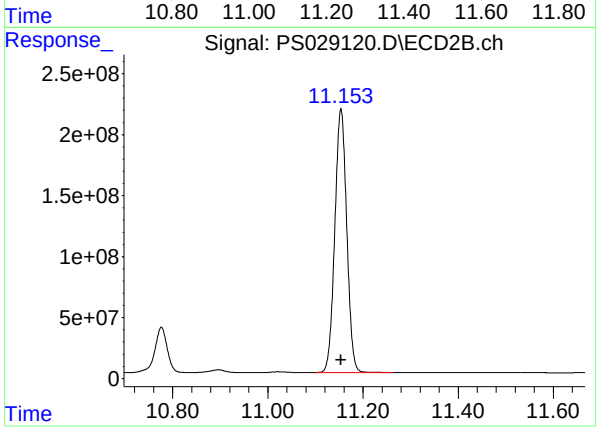
#13 2,4-DB

R.T.: 10.776 min
Delta R.T.: 0.000 min
Response: 659935029
Conc: 712.50 ng/ml



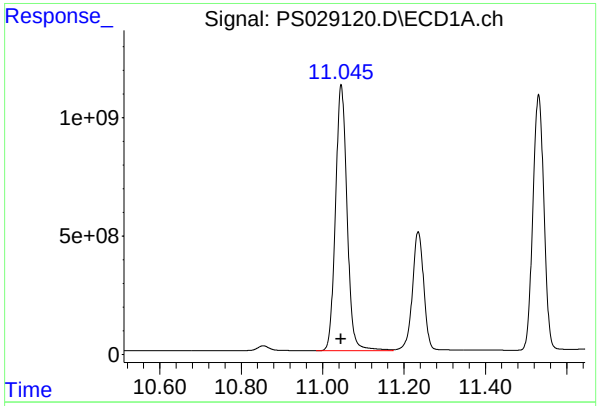
#14 DINOSEB

R.T.: 11.235 min
Delta R.T.: 0.000 min
Response: 9770652242
Conc: 705.00 ng/ml



#14 DINOSEB

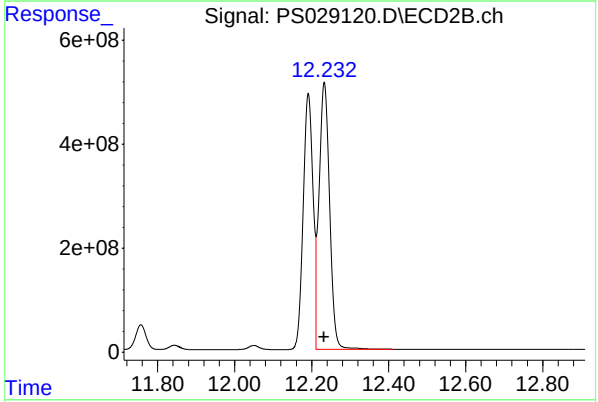
R.T.: 11.154 min
Delta R.T.: 0.000 min
Response: 3755780044
Conc: 705.00 ng/ml



#15 Picloram

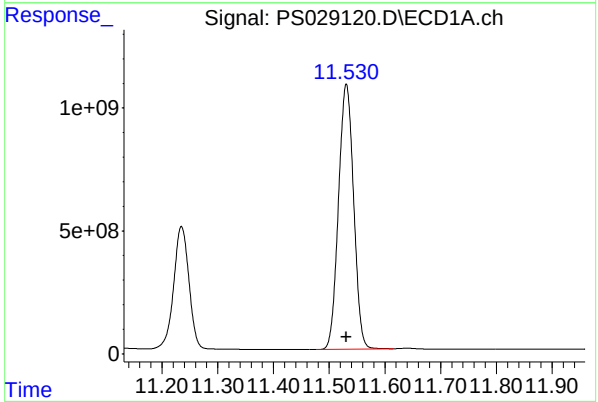
R.T.: 11.046 min
Delta R.T.: 0.000 min
Response: 22160371182
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



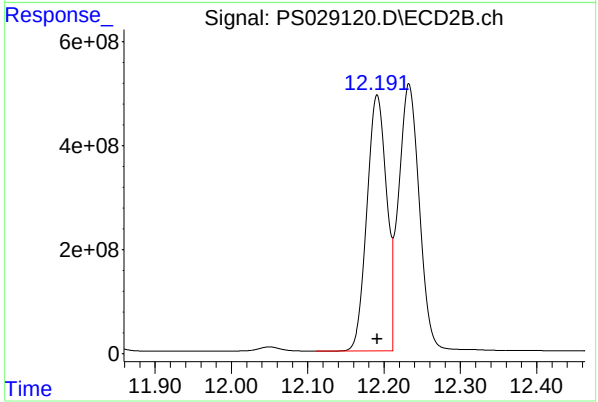
#15 Picloram

R.T.: 12.233 min
Delta R.T.: 0.000 min
Response: 9785677407
Conc: 712.50 ng/ml



#16 DCPA

R.T.: 11.531 min
Delta R.T.: 0.000 min
Response: 20322797189
Conc: 720.00 ng/ml



#16 DCPA

R.T.: 12.191 min
Delta R.T.: 0.000 min
Response: 8783362829
Conc: 720.00 ng/ml

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021125\
Data File : PS029121.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Feb 2025 19:08
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 12 01:07:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021125.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 01:05:26 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	7.187	7.664	2552.2E6	1000.7E6	964.704	980.487
		Target Compounds						
1)	T	Dalapon	2.609	2.658	2820.2E6	1666.5E6	916.168	877.864
2)	T	3,5-DICHL...	6.366	6.632	3426.4E6	1362.1E6	898.183	913.605
3)	T	4-Nitroph...	6.984	7.193	1494.6E6	765.4E6	910.358	913.784
5)	T	DICAMBA	7.372	7.860	10791.4E6	5108.5E6	916.774	937.656
6)	T	MCPP	7.556	7.967	675.3E6	234.5E6	96.287	94.603
7)	T	MCPA	7.705	8.208	903.6E6	326.3E6	93.896	93.152
8)	T	DICHLORPROP	8.074	8.571	2755.8E6	1233.0E6	908.478	922.524
9)	T	2,4-D	8.302	8.896	2939.6E6	1289.8E6	907.923	922.525
10)	T	Pentachlo...	8.603	9.418	41298.0E6	22026.8E6	855.892	921.913
11)	T	2,4,5-TP ...	9.174	9.796	17279.7E6	8975.8E6	917.298	931.524
12)	T	2,4,5-T	9.464	10.212	17266.8E6	8487.5E6	914.131	933.835
13)	T	2,4-DB	10.034	10.775	3257.9E6	875.1E6	923.500	944.812
14)	T	DINOSEB	11.236	11.153	13037.5E6	5137.6E6	940.722	964.379
15)	T	Picloram	11.045	12.233	28871.9E6	13108.1E6	928.288	954.410
16)	T	DCPA	11.531	12.191	25893.5E6	11510.5E6	917.360	943.554

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

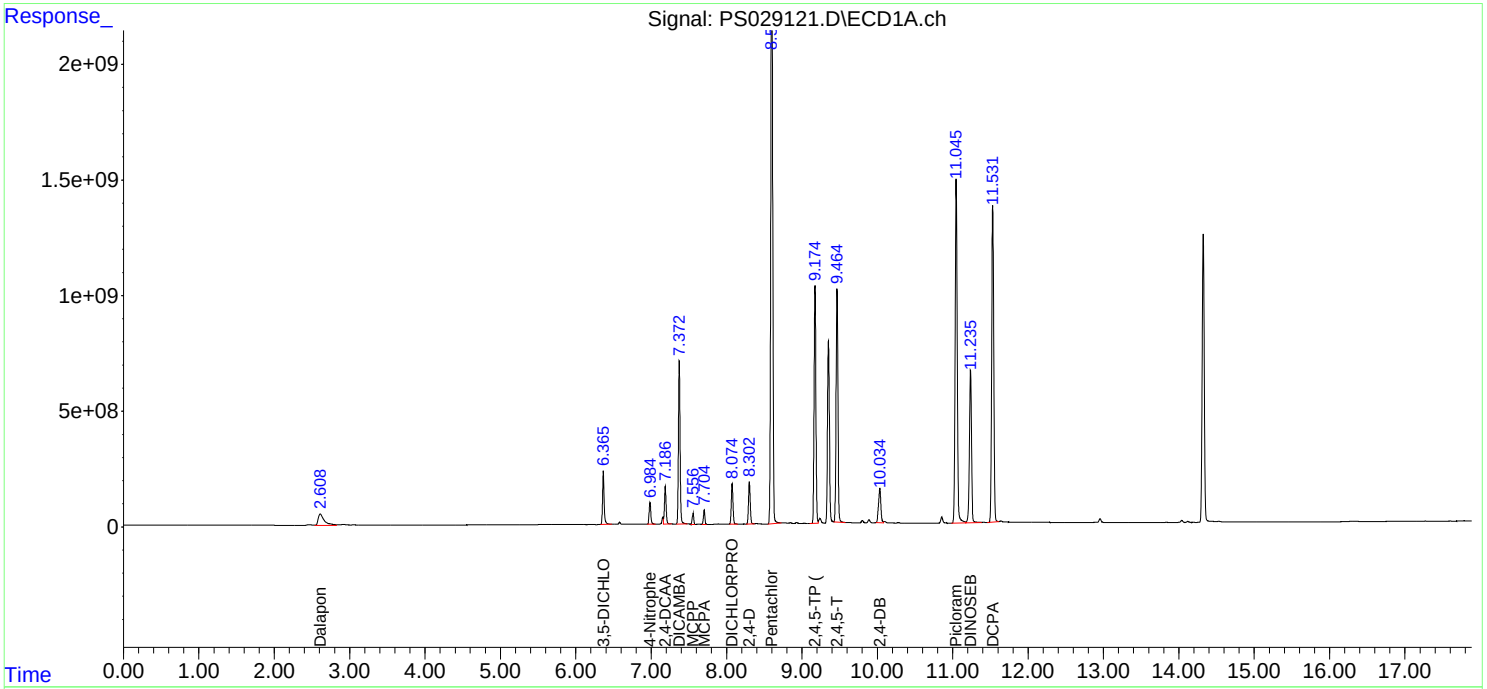
ICAL Form

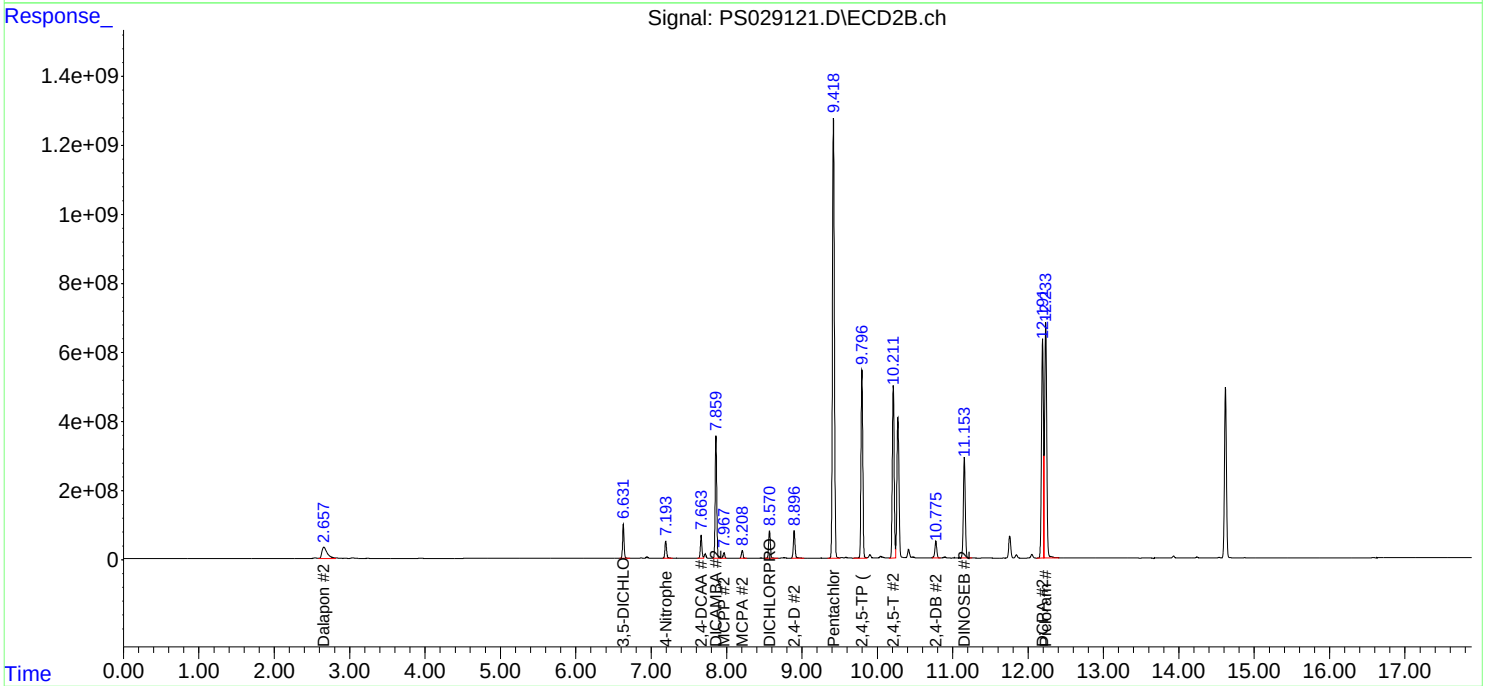
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021125\
Data File : PS029121.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Feb 2025 19:08
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

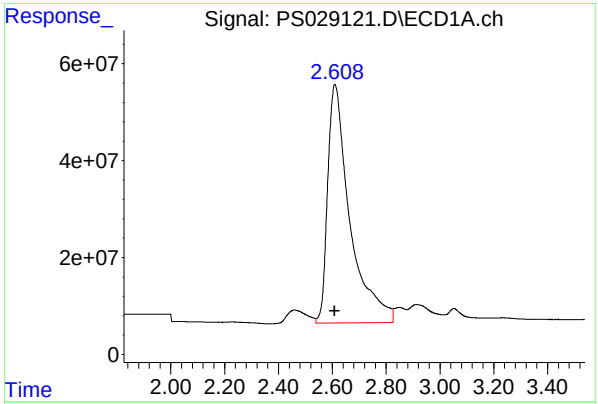
Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 12 01:07:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021125.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 01:05:26 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



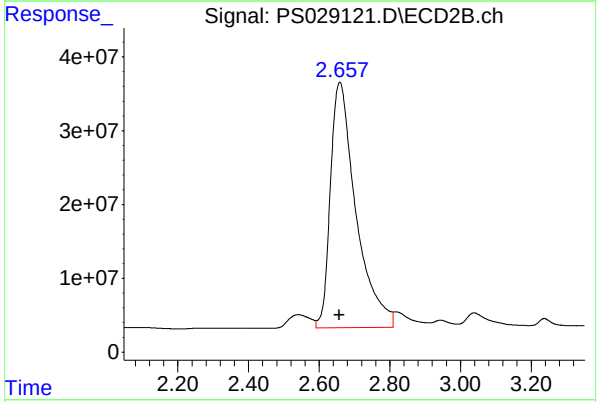




#1 Dalapon

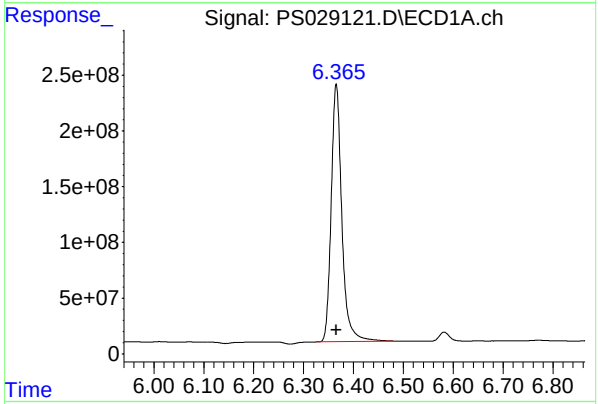
R.T.: 2.609 min
Delta R.T.: 0.000 mi
Response: 2820223770
Conc: 916.17 ng/m

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



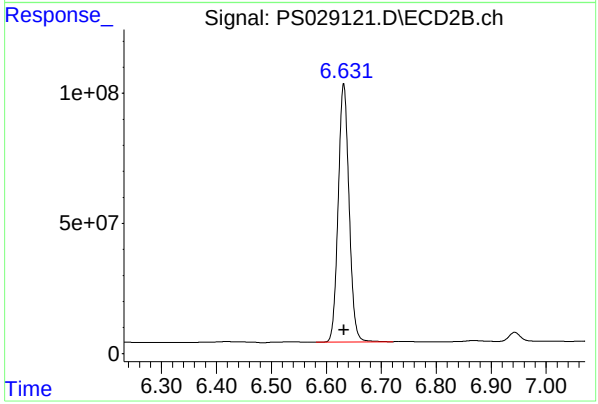
#1 Dalapon

R.T.: 2.658 min
Delta R.T.: 0.000 min
Response: 1666462122
Conc: 877.86 ng/ml



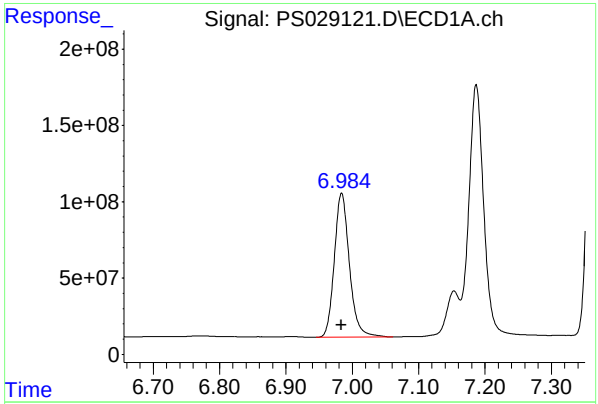
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.366 min
Delta R.T.: 0.000 min
Response: 3426404871
Conc: 898.18 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

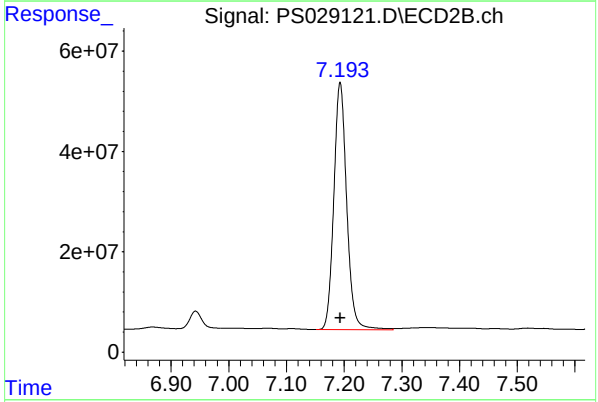
R.T.: 6.632 min
Delta R.T.: 0.000 min
Response: 1362134985
Conc: 913.61 ng/ml



#3 4-Nitrophenol

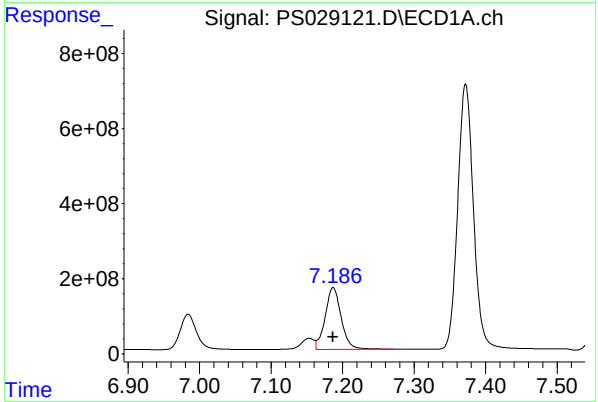
R.T.: 6.984 min
Delta R.T.: 0.000 min
Response: 1494599018
Conc: 910.36 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



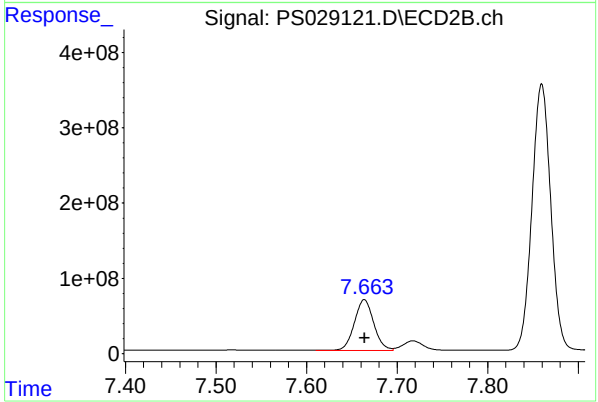
#3 4-Nitrophenol

R.T.: 7.193 min
Delta R.T.: 0.000 min
Response: 765368287
Conc: 913.78 ng/ml



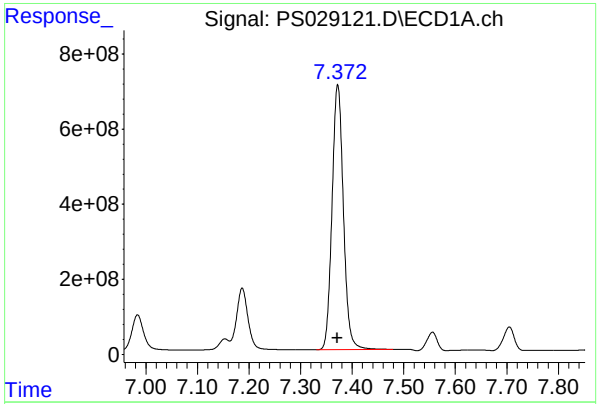
#4 2,4-DCAA

R.T.: 7.187 min
Delta R.T.: 0.000 min
Response: 2552194601
Conc: 964.70 ng/ml



#4 2,4-DCAA

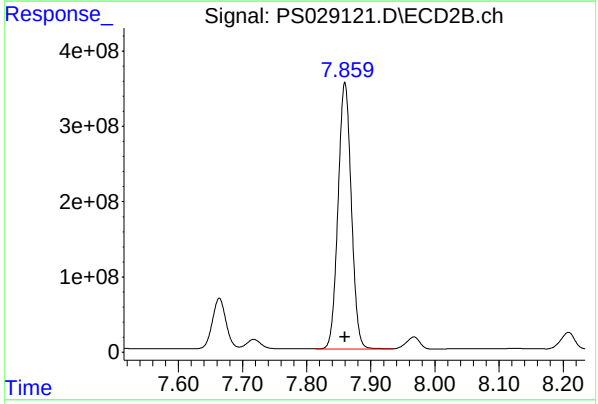
R.T.: 7.664 min
Delta R.T.: 0.000 min
Response: 1000716211
Conc: 980.49 ng/ml



#5 DICAMBA

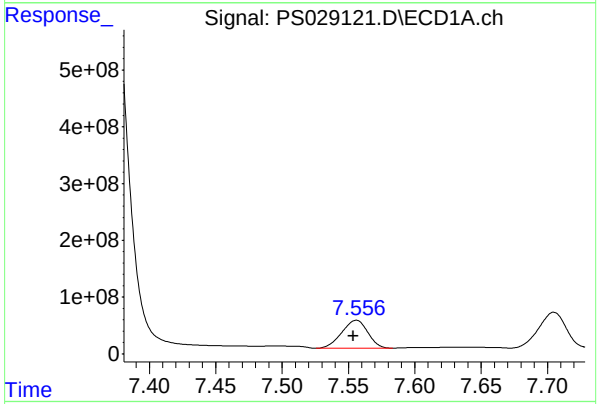
R.T.: 7.372 min
Delta R.T.: 0.000 mi
Response: 10791390872
Conc: 916.77 ng/m

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



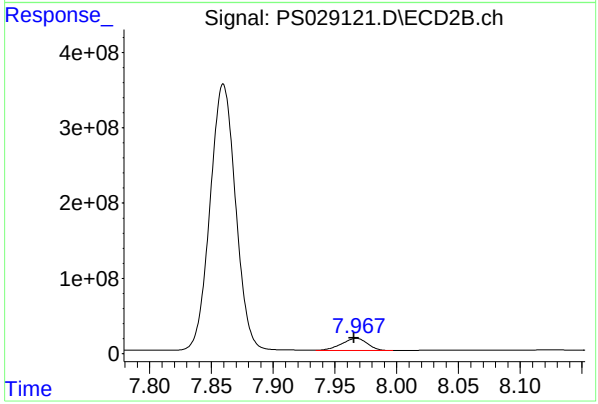
#5 DICAMBA

R.T.: 7.860 min
Delta R.T.: 0.000 min
Response: 5108531118
Conc: 937.66 ng/ml



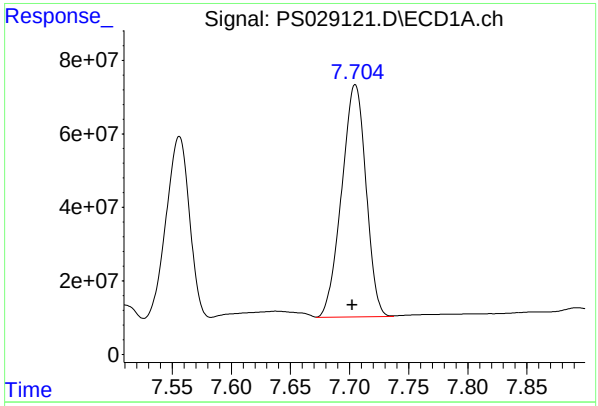
#6 MCPP

R.T.: 7.556 min
Delta R.T.: 0.002 min
Response: 675335618
Conc: 96.29 ug/ml



#6 MCPP

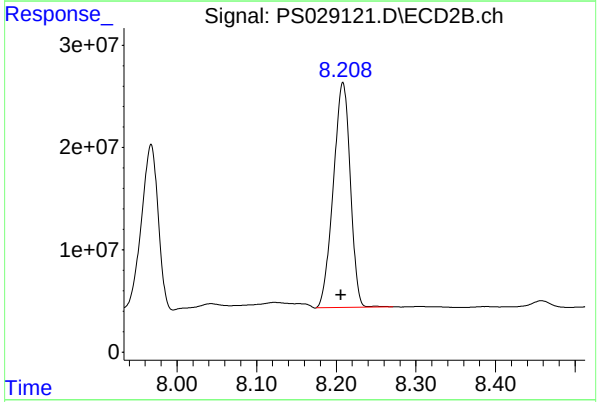
R.T.: 7.967 min
Delta R.T.: 0.002 min
Response: 234542360
Conc: 94.60 ug/ml



#7 MCPA

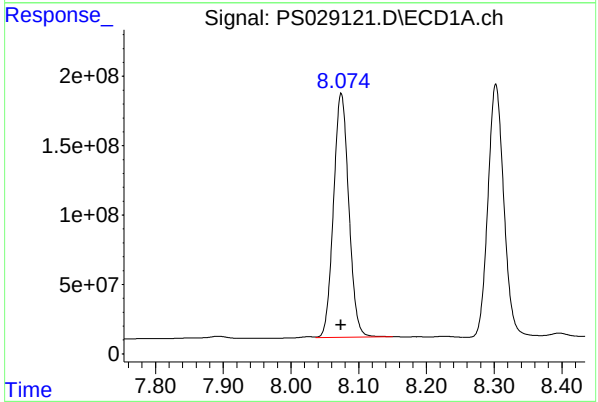
R.T.: 7.705 min
Delta R.T.: 0.002 min
Response: 903645136
Conc: 93.90 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



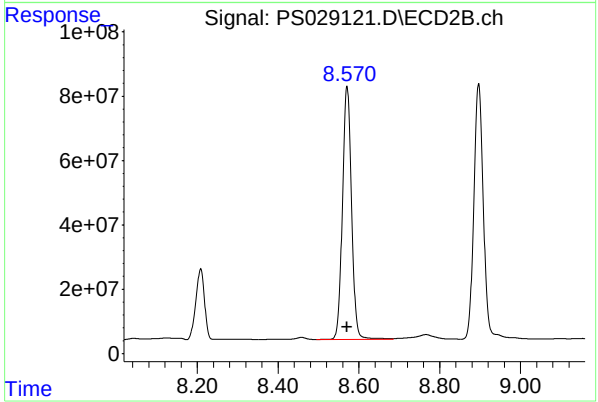
#7 MCPA

R.T.: 8.208 min
Delta R.T.: 0.002 min
Response: 326275250
Conc: 93.15 ug/ml



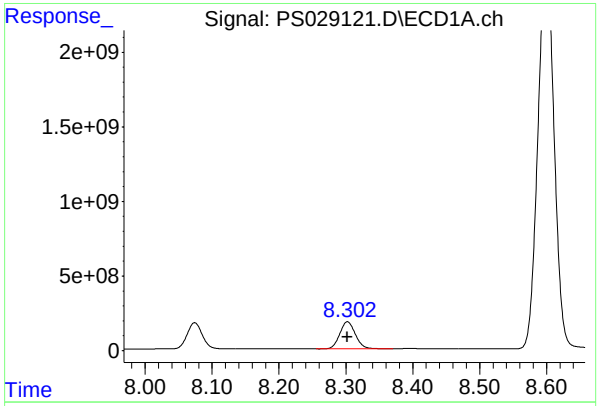
#8 DICHLORPROP

R.T.: 8.074 min
Delta R.T.: 0.000 min
Response: 2755751028
Conc: 908.48 ng/ml



#8 DICHLORPROP

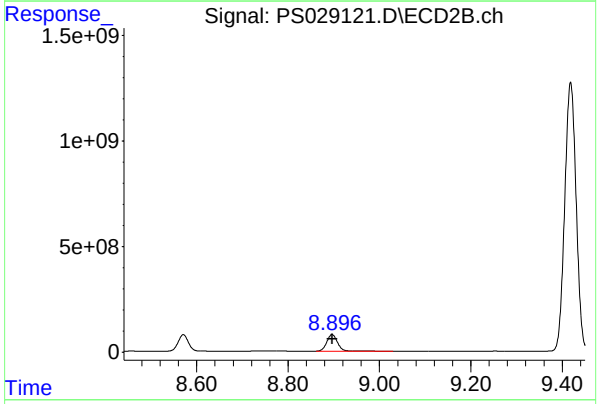
R.T.: 8.571 min
Delta R.T.: 0.000 min
Response: 1233009152
Conc: 922.52 ng/ml



#9 2,4-D

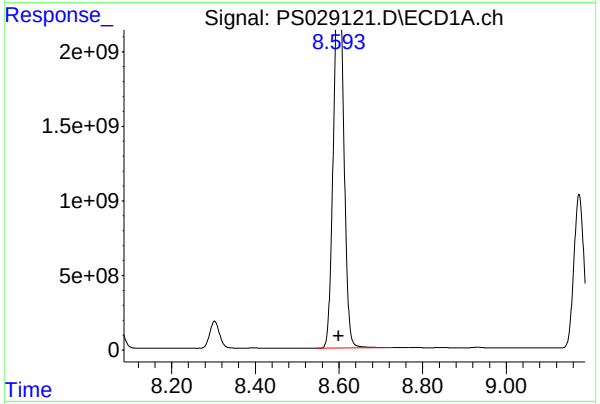
R.T.: 8.302 min
Delta R.T.: 0.000 min
Response: 2939559059
Conc: 907.92 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



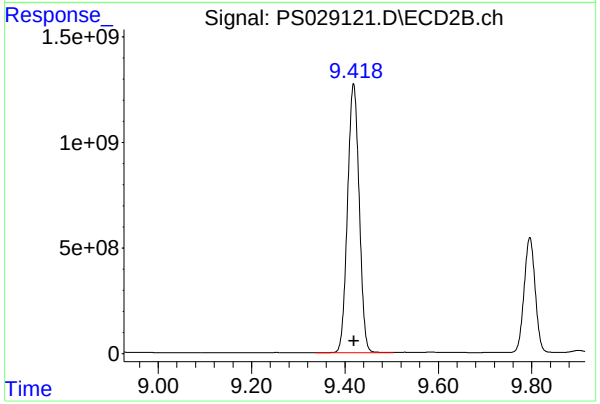
#9 2,4-D

R.T.: 8.896 min
Delta R.T.: 0.000 min
Response: 1289795811
Conc: 922.53 ng/ml



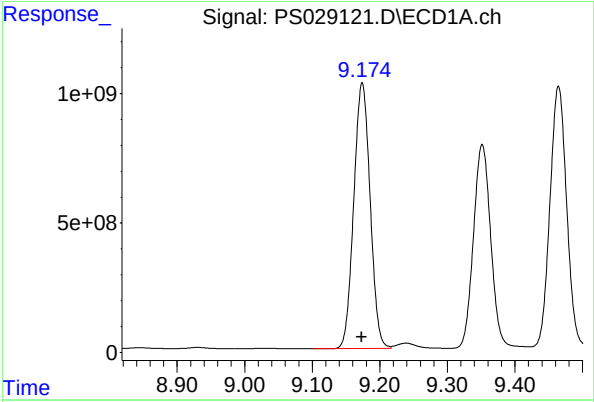
#10 Pentachlorophenol

R.T.: 8.603 min
Delta R.T.: 0.004 min
Response: 41297978401
Conc: 855.89 ng/ml



#10 Pentachlorophenol

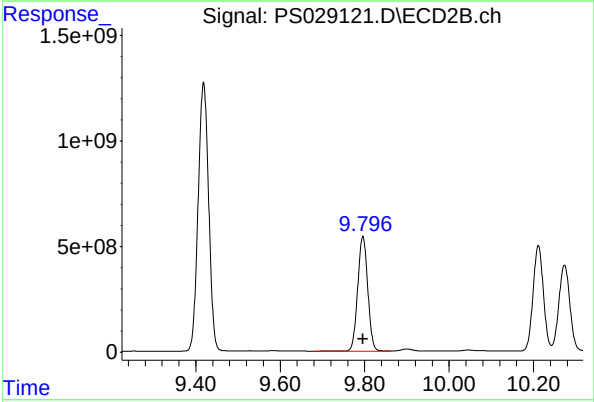
R.T.: 9.418 min
Delta R.T.: 0.000 min
Response: 22026809215
Conc: 921.91 ng/ml



#11 2,4,5-TP (SILVEX)

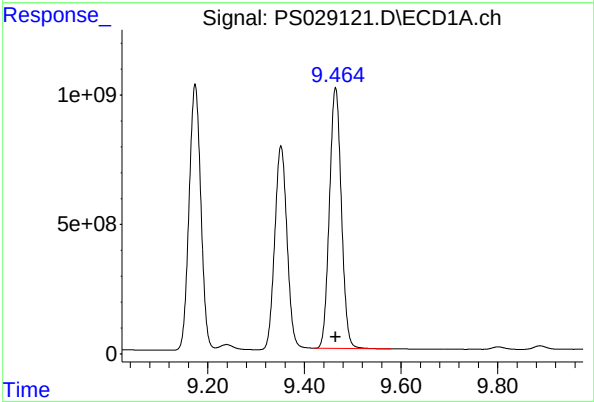
R.T.: 9.174 min
Delta R.T.: 0.000 min
Response: 17279738389
Conc: 917.30 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



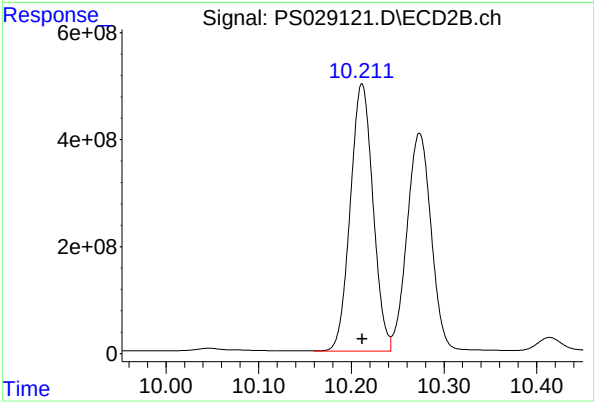
#11 2,4,5-TP (SILVEX)

R.T.: 9.796 min
Delta R.T.: 0.000 min
Response: 8975754270
Conc: 931.52 ng/ml



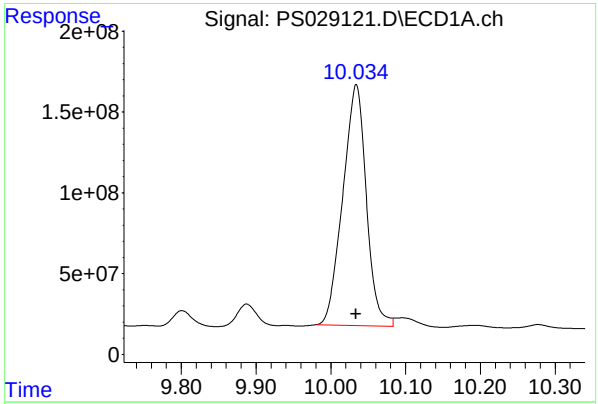
#12 2,4,5-T

R.T.: 9.464 min
Delta R.T.: 0.000 min
Response: 17266824720
Conc: 914.13 ng/ml



#12 2,4,5-T

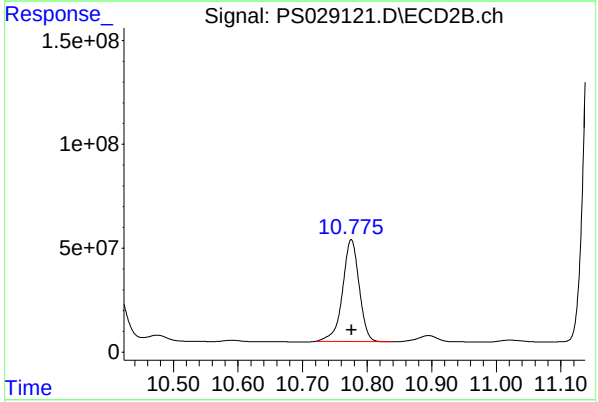
R.T.: 10.212 min
Delta R.T.: 0.000 min
Response: 8487513285
Conc: 933.83 ng/ml



#13 2,4-DB

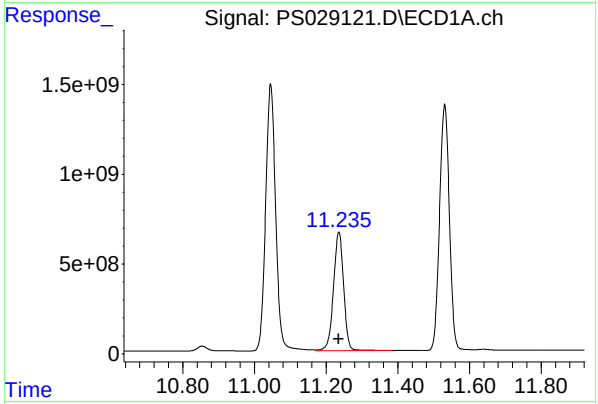
R.T.: 10.034 min
Delta R.T.: 0.000 min
Response: 3257902642
Conc: 923.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



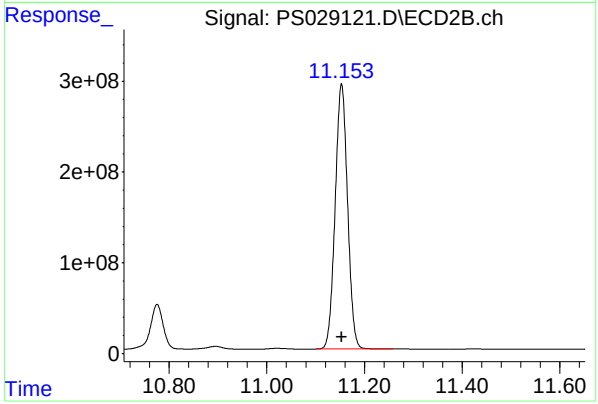
#13 2,4-DB

R.T.: 10.775 min
Delta R.T.: 0.000 min
Response: 875108266
Conc: 944.81 ng/ml



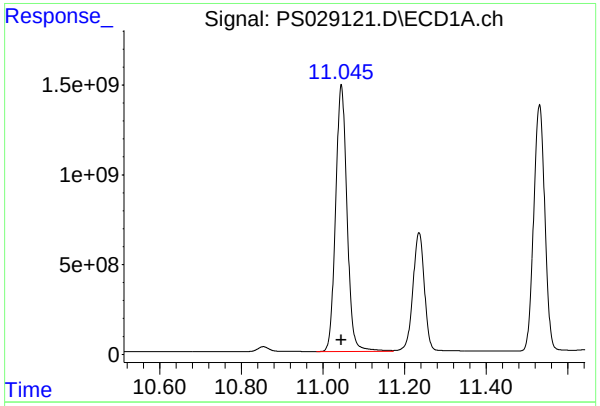
#14 DINOSEB

R.T.: 11.236 min
Delta R.T.: 0.000 min
Response: 13037547371
Conc: 940.72 ng/ml



#14 DINOSEB

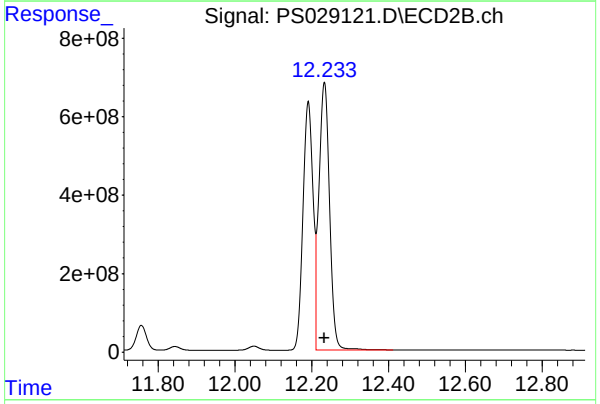
R.T.: 11.153 min
Delta R.T.: 0.000 min
Response: 5137582192
Conc: 964.38 ng/ml



#15 Picloram

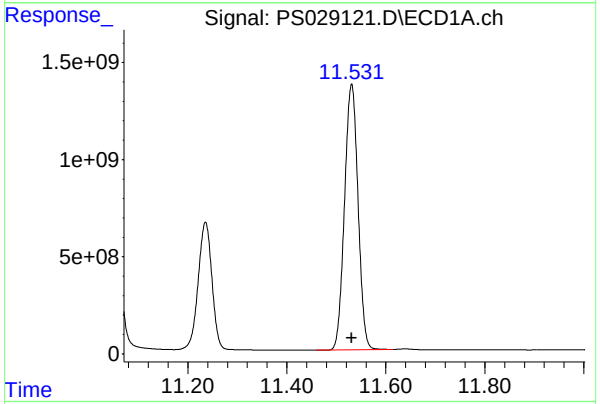
R.T.: 11.045 min
Delta R.T.: 0.000 min
Response: 28871878420
Conc: 928.29 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000



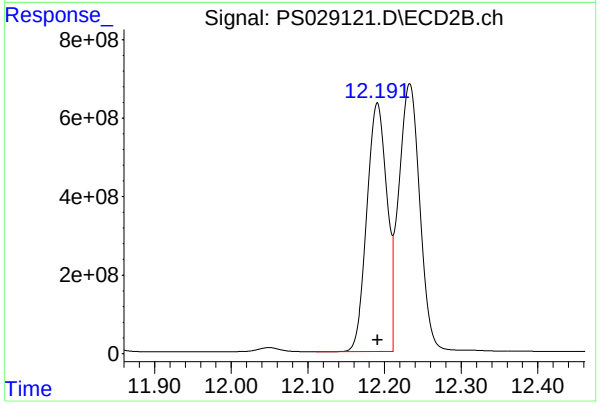
#15 Picloram

R.T.: 12.233 min
Delta R.T.: 0.000 min
Response: 13108136881
Conc: 954.41 ng/ml



#16 DCPA

R.T.: 11.531 min
Delta R.T.: 0.000 min
Response: 25893513431
Conc: 917.36 ng/ml



#16 DCPA

R.T.: 12.191 min
Delta R.T.: 0.000 min
Response: 11510526504
Conc: 943.55 ng/ml

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021125\
Data File : PS029122.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Feb 2025 19:32
Operator : AR\AJ
Sample : HSTDICC1500
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 12 01:07:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021125.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 01:05:26 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	7.186	7.664	3650.6E6	1473.1E6	1379.883	1443.324
		Target Compounds						
1)	T	Dalapon	2.610	2.657	4247.8E6	2500.2E6	1379.916	1317.063
2)	T	3,5-DICHL...	6.365	6.632	4909.3E6	2003.1E6	1286.903	1343.512
3)	T	4-Nitroph...	6.983	7.193	2233.1E6	1147.8E6	1360.194	1370.368
5)	T	DICAMBA	7.371	7.860	15558.3E6	7590.4E6	1321.743	1393.193
6)	T	MCPP	7.558	7.971	1036.7E6	356.1E6	147.804	143.622
7)	T	MCPA	7.709	8.213	1370.6E6	492.4E6	142.418	140.582
8)	T	DICHLORPROP	8.074	8.571	3959.5E6	1811.1E6	1305.322	1355.070
9)	T	2,4-D	8.302	8.896	4209.5E6	1905.6E6	1300.149	1362.993
10)	T	Pentachlo...	8.607	9.419	48540.5E6	31287.5E6	1005.992	1309.511 #
11)	T	2,4,5-TP ...	9.173	9.796	24469.4E6	13051.8E6	1298.963	1354.549
12)	T	2,4,5-T	9.464	10.212	24490.1E6	12378.3E6	1296.543	1361.920
13)	T	2,4-DB	10.033	10.776	4826.5E6	1312.1E6	1368.136	1416.614
14)	T	DINOSEB	11.235	11.155	19121.4E6	7837.4E6	1379.702	1471.169
15)	T	Picloram	11.045	12.234	41664.0E6	19364.5E6	1339.581	1409.937
16)	T	DCPA	11.530	12.192	36271.3E6	16705.5E6	1285.026	1369.399

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

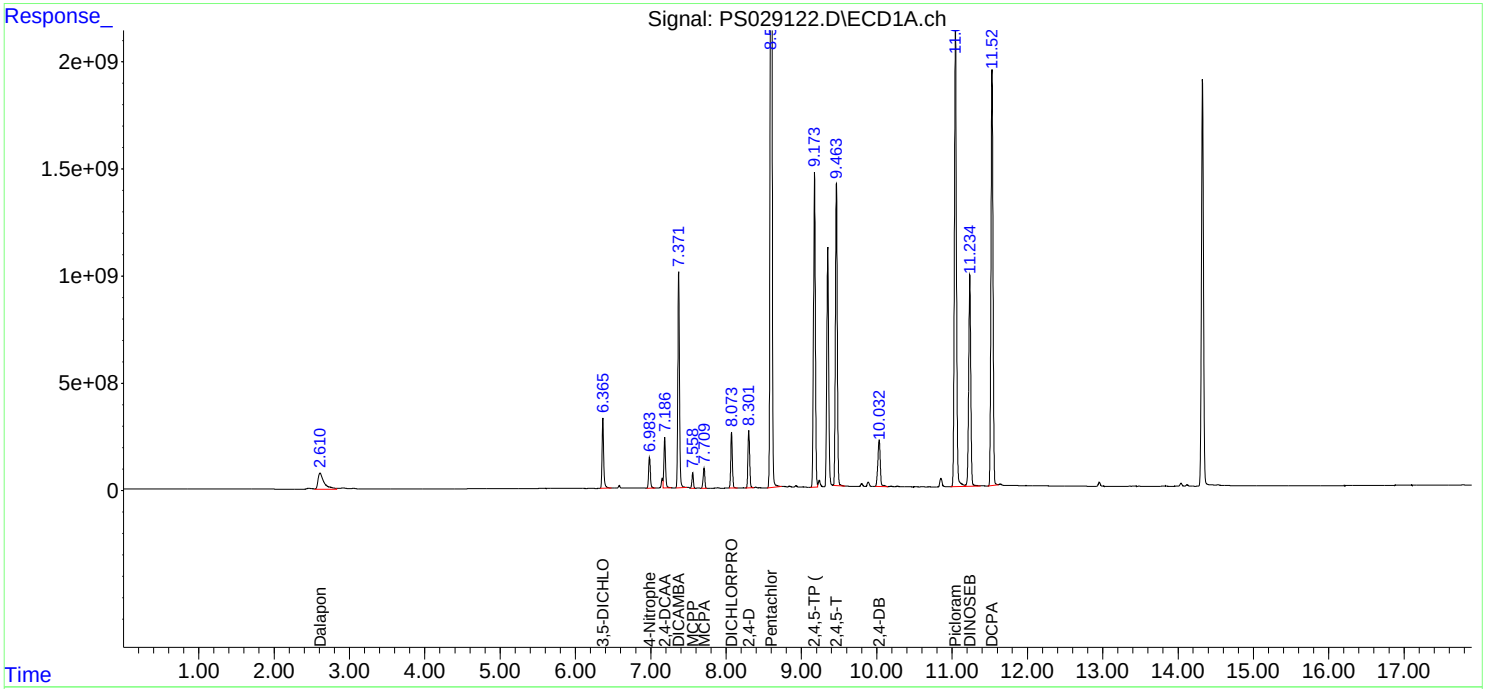
ICAL Form

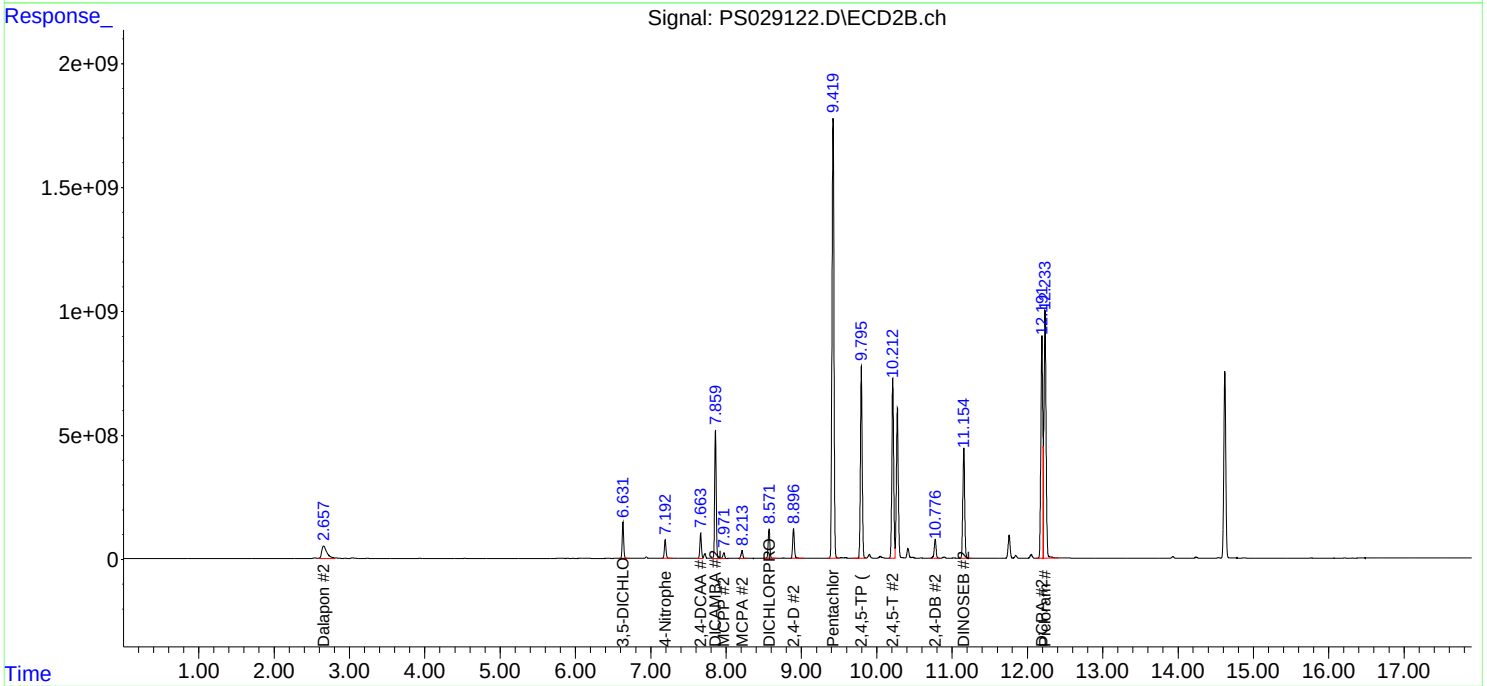
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021125\
Data File : PS029122.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Feb 2025 19:32
Operator : AR\AJ
Sample : HSTDICC1500
Misc :
ALS Vial : 7 Sample Multiplier: 1

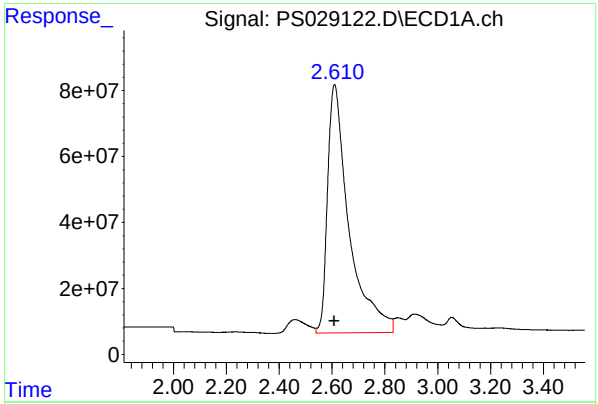
Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 12 01:07:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021125.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 01:05:26 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



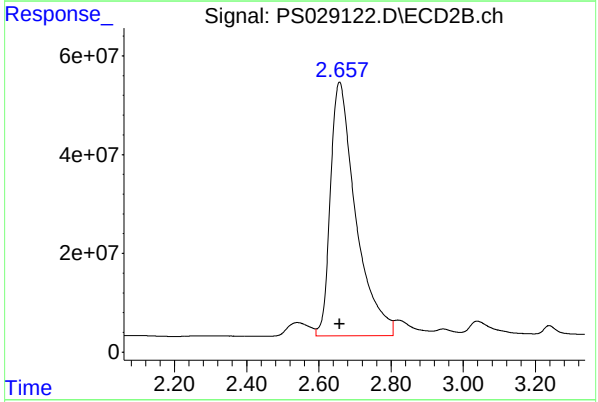




#1 Dalapon

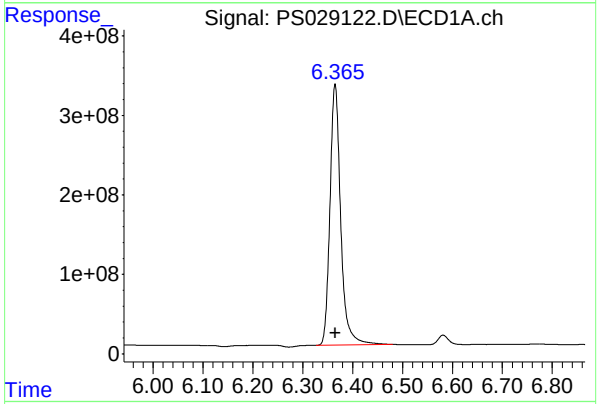
R.T.: 2.610 min
Delta R.T.: 0.000 mi
Response: 4247771653
Conc: 1379.92 ng/

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



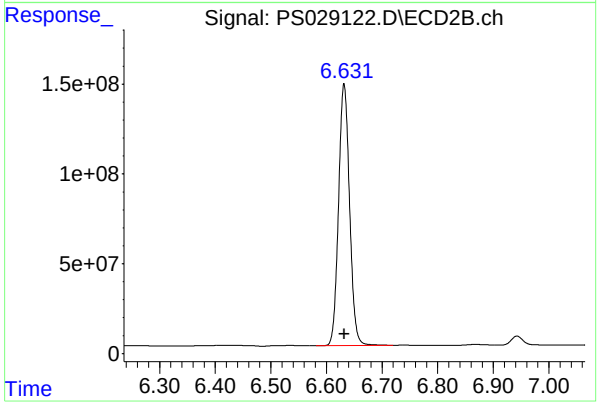
#1 Dalapon

R.T.: 2.657 min
Delta R.T.: 0.000 min
Response: 2500199770
Conc: 1317.06 ng/ml



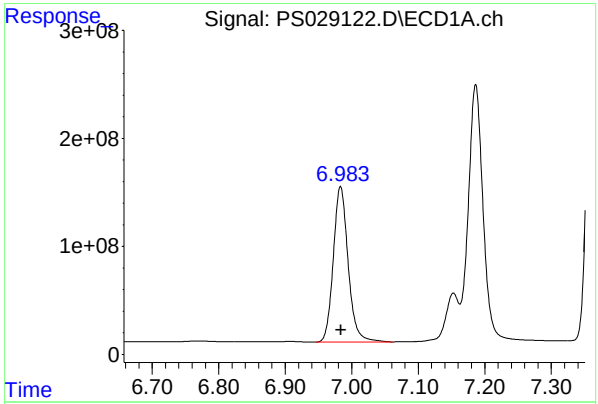
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.365 min
Delta R.T.: 0.000 min
Response: 4909303861
Conc: 1286.90 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

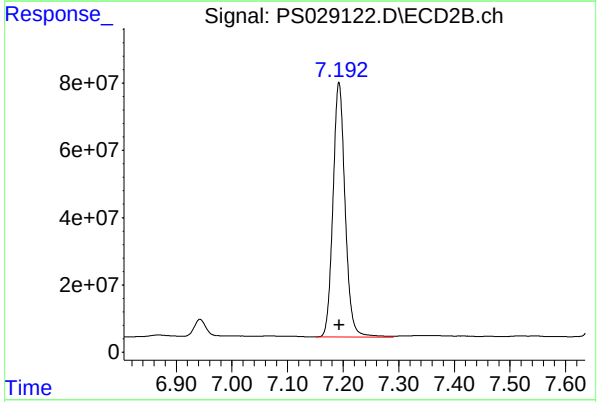
R.T.: 6.632 min
Delta R.T.: 0.000 min
Response: 2003102924
Conc: 1343.51 ng/ml



#3 4-Nitrophenol

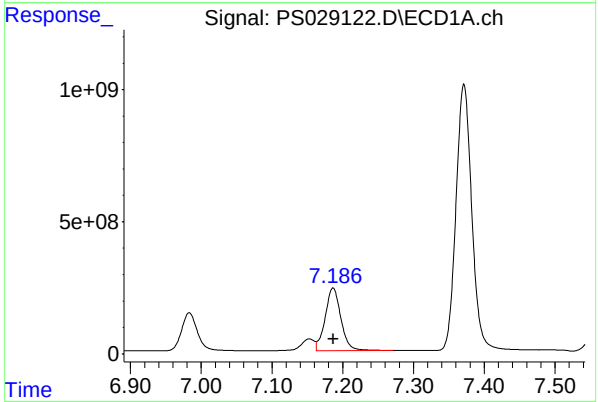
R.T.: 6.983 min
Delta R.T.: 0.000 min
Response: 2233127821
Conc: 1360.19 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



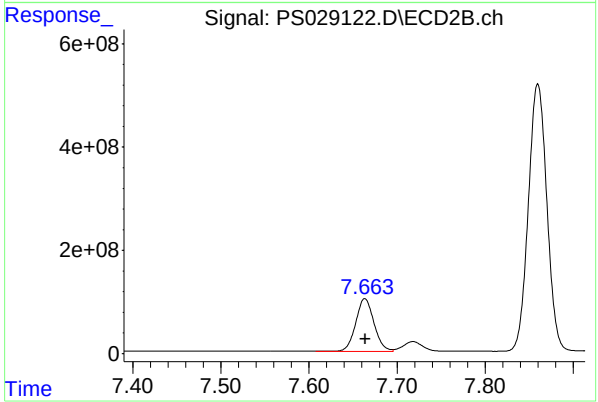
#3 4-Nitrophenol

R.T.: 7.193 min
Delta R.T.: 0.000 min
Response: 1147794138
Conc: 1370.37 ng/ml



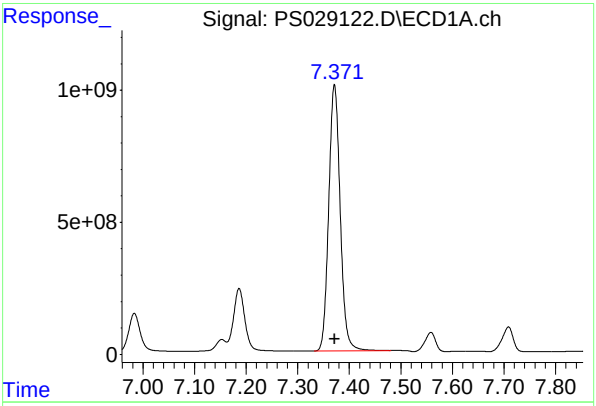
#4 2,4-DCAA

R.T.: 7.186 min
Delta R.T.: 0.000 min
Response: 3650583384
Conc: 1379.88 ng/ml



#4 2,4-DCAA

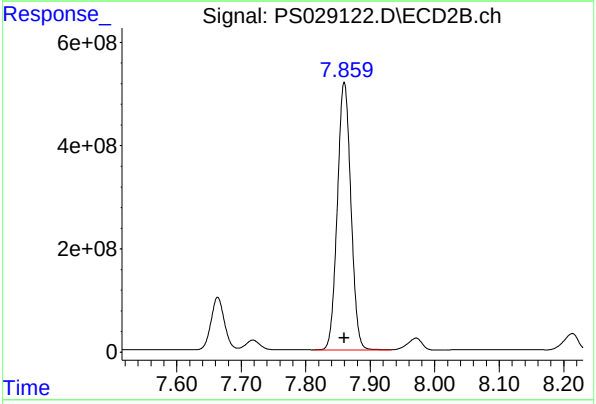
R.T.: 7.664 min
Delta R.T.: 0.000 min
Response: 1473101855
Conc: 1443.32 ng/ml



#5 DICAMBA

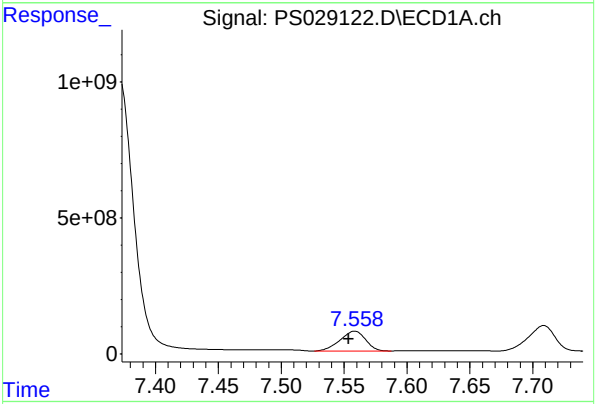
R.T.: 7.371 min
Delta R.T.: 0.000 mi
Response: 15558302759
Conc: 1321.74 ng/

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



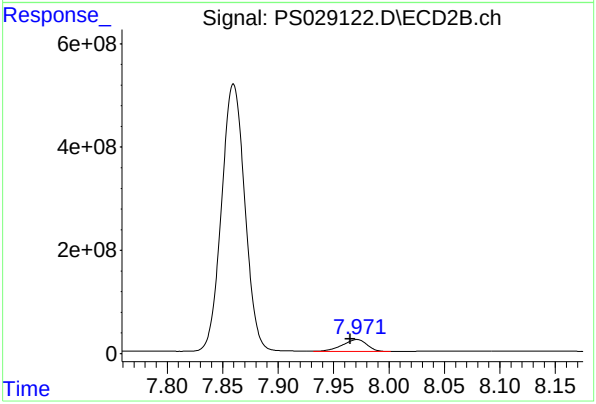
#5 DICAMBA

R.T.: 7.860 min
Delta R.T.: 0.000 min
Response: 7590384192
Conc: 1393.19 ng/ml



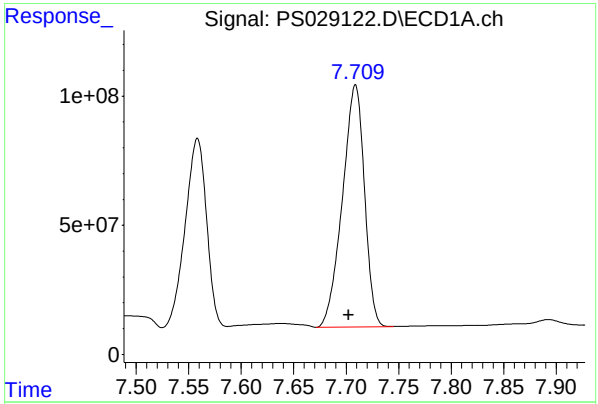
#6 MCPP

R.T.: 7.558 min
Delta R.T.: 0.005 min
Response: 1036659344
Conc: 147.80 ug/ml



#6 MCPP

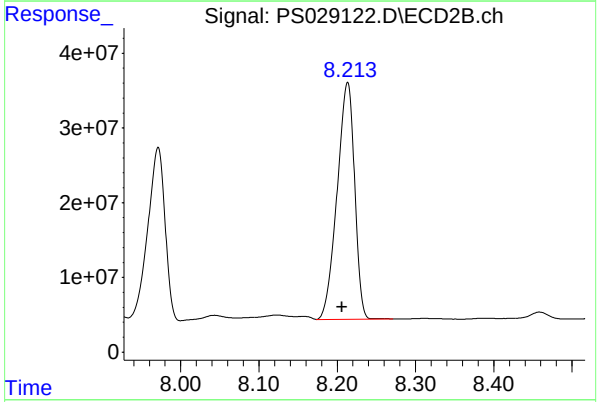
R.T.: 7.971 min
Delta R.T.: 0.006 min
Response: 356073874
Conc: 143.62 ug/ml



#7 MCPA

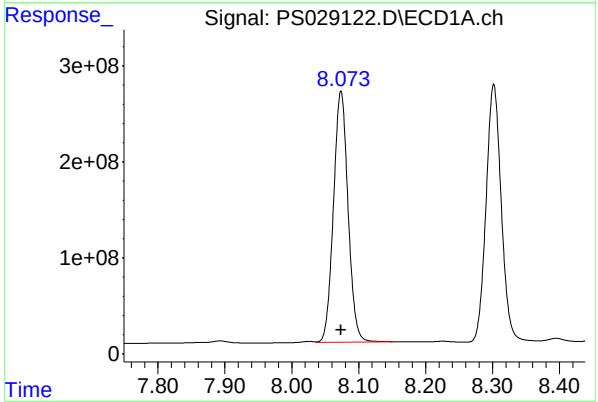
R.T.: 7.709 min
Delta R.T.: 0.006 min
Response: 1370625968
Conc: 142.42 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



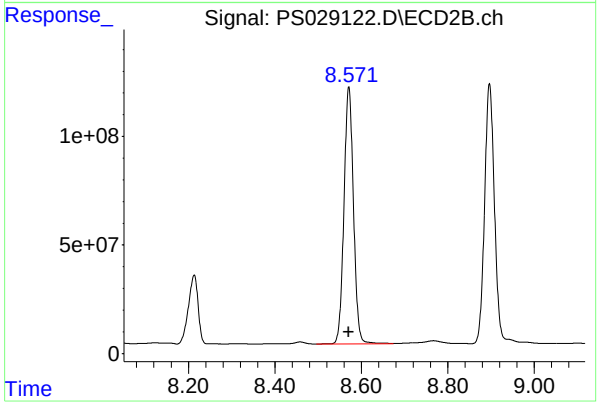
#7 MCPA

R.T.: 8.213 min
Delta R.T.: 0.007 min
Response: 492405080
Conc: 140.58 ug/ml



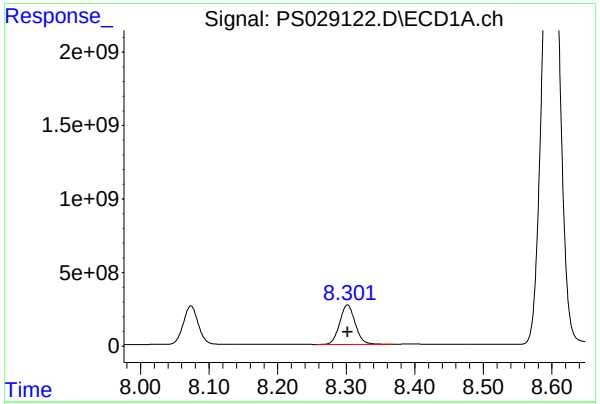
#8 DICHLORPROP

R.T.: 8.074 min
Delta R.T.: 0.000 min
Response: 3959523762
Conc: 1305.32 ng/ml



#8 DICHLORPROP

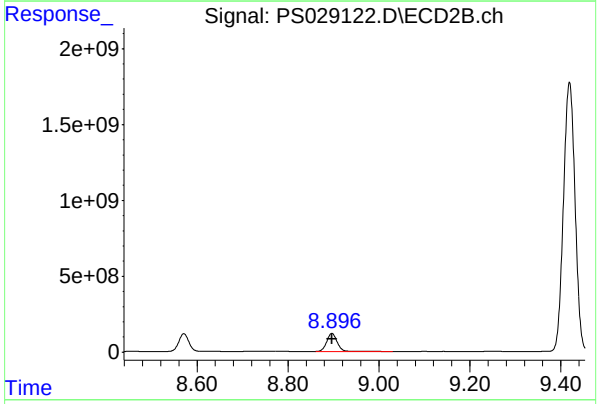
R.T.: 8.571 min
Delta R.T.: 0.000 min
Response: 1811132901
Conc: 1355.07 ng/ml



#9 2,4-D

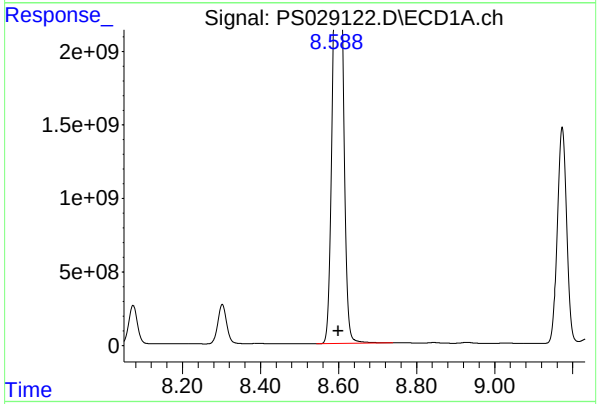
R.T.: 8.302 min
Delta R.T.: 0.000 min
Response: 4209457561
Conc: 1300.15 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



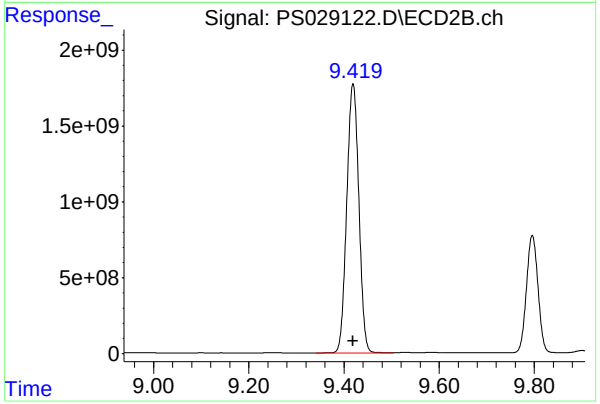
#9 2,4-D

R.T.: 8.896 min
Delta R.T.: 0.000 min
Response: 1905620216
Conc: 1362.99 ng/ml



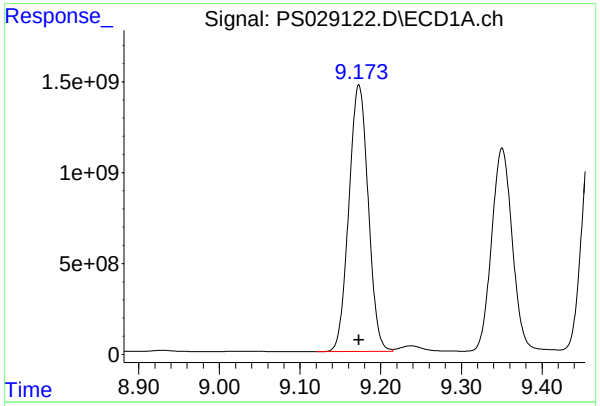
#10 Pentachlorophenol

R.T.: 8.607 min
Delta R.T.: 0.008 min
Response: 48540511016
Conc: 1005.99 ng/ml



#10 Pentachlorophenol

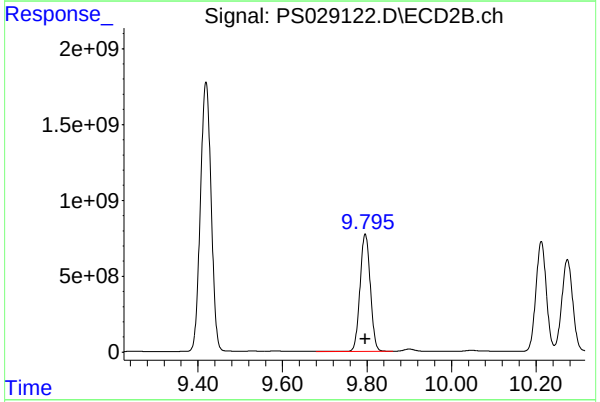
R.T.: 9.419 min
Delta R.T.: 0.000 min
Response: 31287516997
Conc: 1309.51 ng/ml



#11 2,4,5-TP (SILVEX)

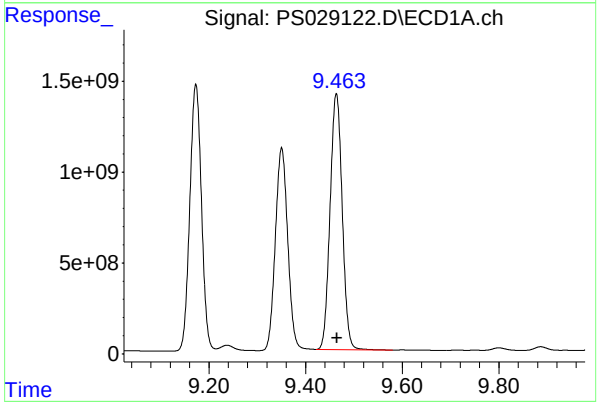
R.T.: 9.173 min
Delta R.T.: 0.000 min
Response: 24469400587
Conc: 1298.96 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



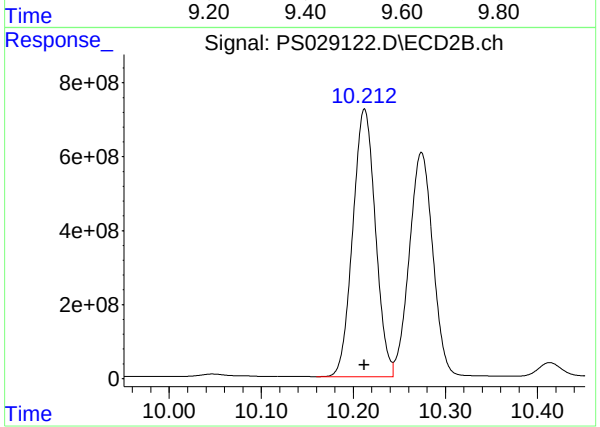
#11 2,4,5-TP (SILVEX)

R.T.: 9.796 min
Delta R.T.: 0.000 min
Response: 13051833854
Conc: 1354.55 ng/ml



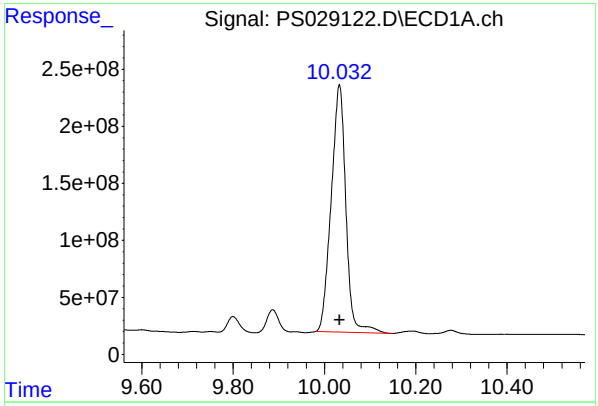
#12 2,4,5-T

R.T.: 9.464 min
Delta R.T.: 0.000 min
Response: 24490125947
Conc: 1296.54 ng/ml



#12 2,4,5-T

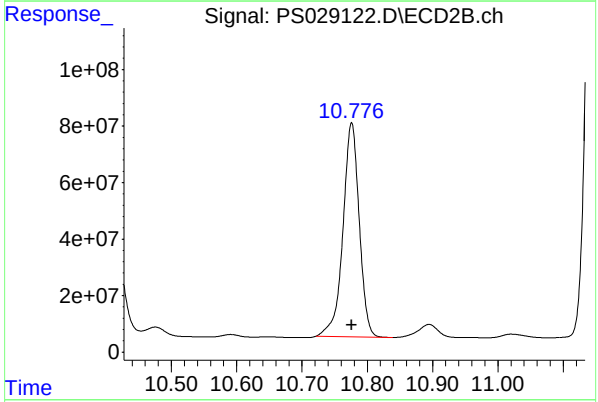
R.T.: 10.212 min
Delta R.T.: 0.000 min
Response: 12378325781
Conc: 1361.92 ng/ml



#13 2,4-DB

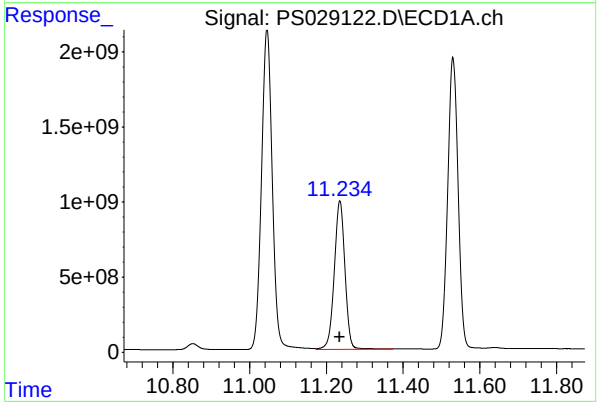
R.T.: 10.033 min
Delta R.T.: -0.001 mi
Response: 4826479216
Conc: 1368.14 ng/m

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



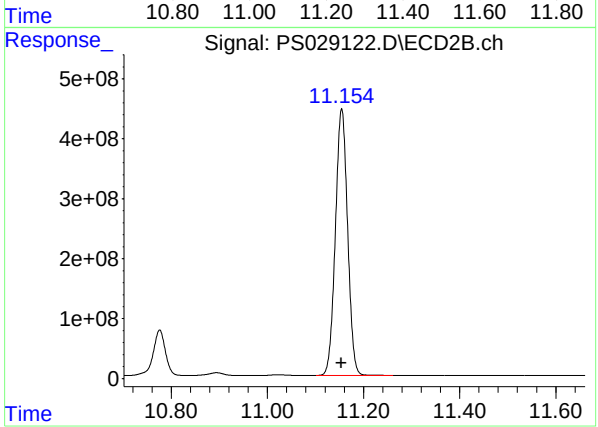
#13 2,4-DB

R.T.: 10.776 min
Delta R.T.: 0.000 min
Response: 1312102726
Conc: 1416.61 ng/ml



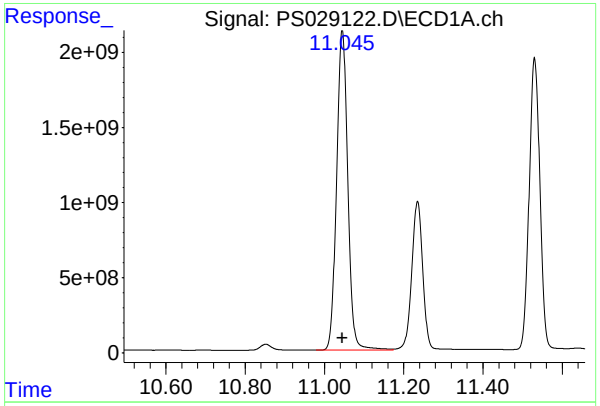
#14 DINOSEB

R.T.: 11.235 min
Delta R.T.: 0.000 min
Response: 19121397131
Conc: 1379.70 ng/ml



#14 DINOSEB

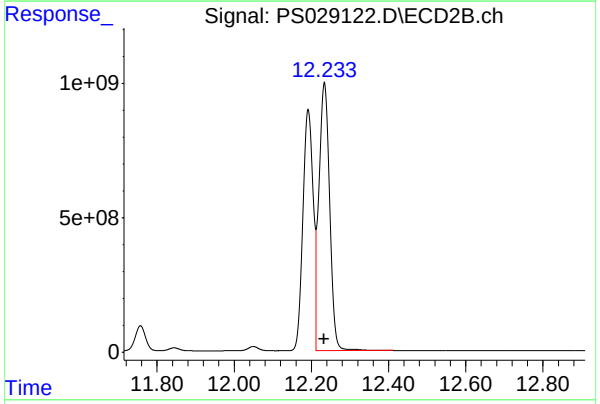
R.T.: 11.155 min
Delta R.T.: 0.000 min
Response: 7837429028
Conc: 1471.17 ng/ml



#15 Picloram

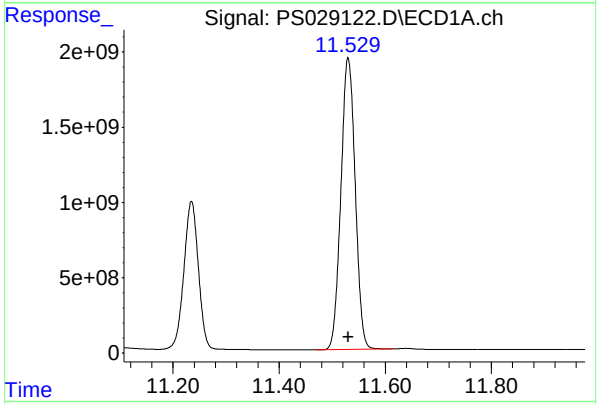
R.T.: 11.045 min
Delta R.T.: 0.000 min
Response: 41664016241
Conc: 1339.58 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500



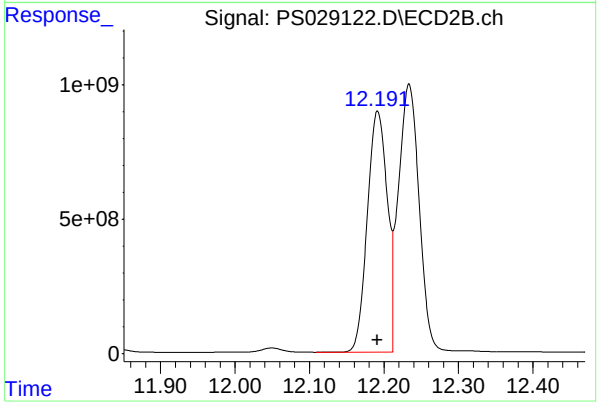
#15 Picloram

R.T.: 12.234 min
Delta R.T.: 0.001 min
Response: 19364475386
Conc: 1409.94 ng/ml



#16 DCPA

R.T.: 11.530 min
Delta R.T.: 0.000 min
Response: 36271282523
Conc: 1285.03 ng/ml



#16 DCPA

R.T.: 12.192 min
Delta R.T.: 0.000 min
Response: 16705456536
Conc: 1369.40 ng/ml

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021125\
Data File : PS029123.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Feb 2025 19:56
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
ICVPS021125

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 12 10:12:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021125.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 10:01:00 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	7.187	7.664	1952.5E6	747.6E6	706.441	706.285
		Target Compounds						
1)	T	Dalapon	2.608	2.657	2077.0E6	1235.7E6	656.634	652.652
2)	T	3,5-DICHL...	6.366	6.632	2607.0E6	1018.7E6	658.028	665.849
3)	T	4-Nitroph...	6.984	7.194	1114.3E6	569.0E6	653.492	656.019
5)	T	DICAMBA	7.372	7.860	8129.6E6	3767.0E6	675.110	681.621
6)	T	MCPP	7.554	7.965	482.6E6	171.3E6	69.655	69.418
7)	T	MCPA	7.702	8.207	653.8E6	240.3E6	68.305	68.690
8)	T	DICHLORPROP	8.074	8.571	2098.8E6	925.6E6	664.378	672.173
9)	T	2,4-D	8.303	8.897	2241.0E6	970.1E6	666.144	677.115
10)	T	Pentachlo...	8.600	9.419	33808.8E6	16650.6E6	716.988	690.333
11)	T	2,4,5-TP ...	9.174	9.796	13195.1E6	6719.3E6	680.497	687.878
12)	T	2,4,5-T	9.465	10.212	13210.9E6	6365.5E6	682.043	687.255
13)	T	2,4-DB	10.034	10.777	2479.1E6	647.5E6	667.079	681.600
14)	T	DINOSEB	11.235	11.155	9995.2E6	3857.6E6	689.296	699.513
15)	T	Picloram	11.046	12.234	21907.4E6	9634.4E6	685.624	700.742
16)	T	DCPA	11.531	12.192	19970.7E6	8596.7E6	688.734	696.946

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

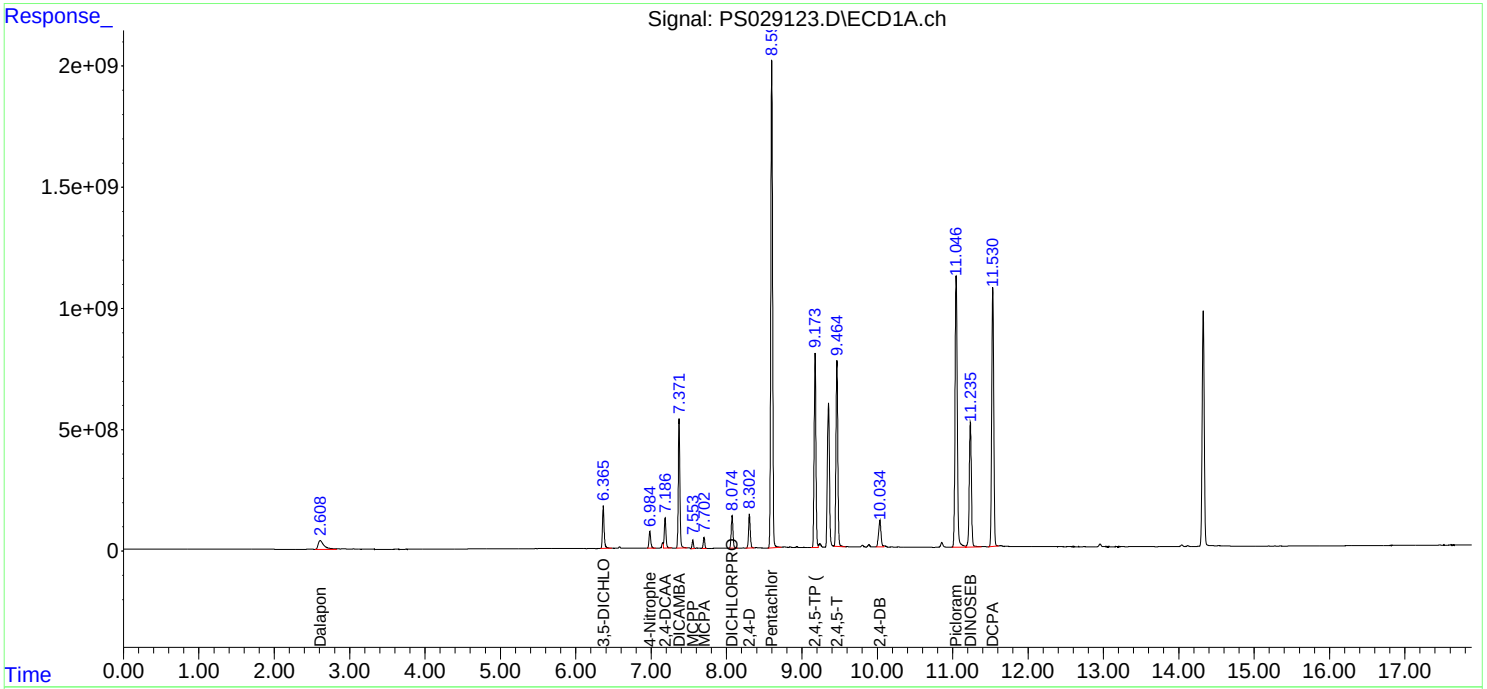
ICAL Form

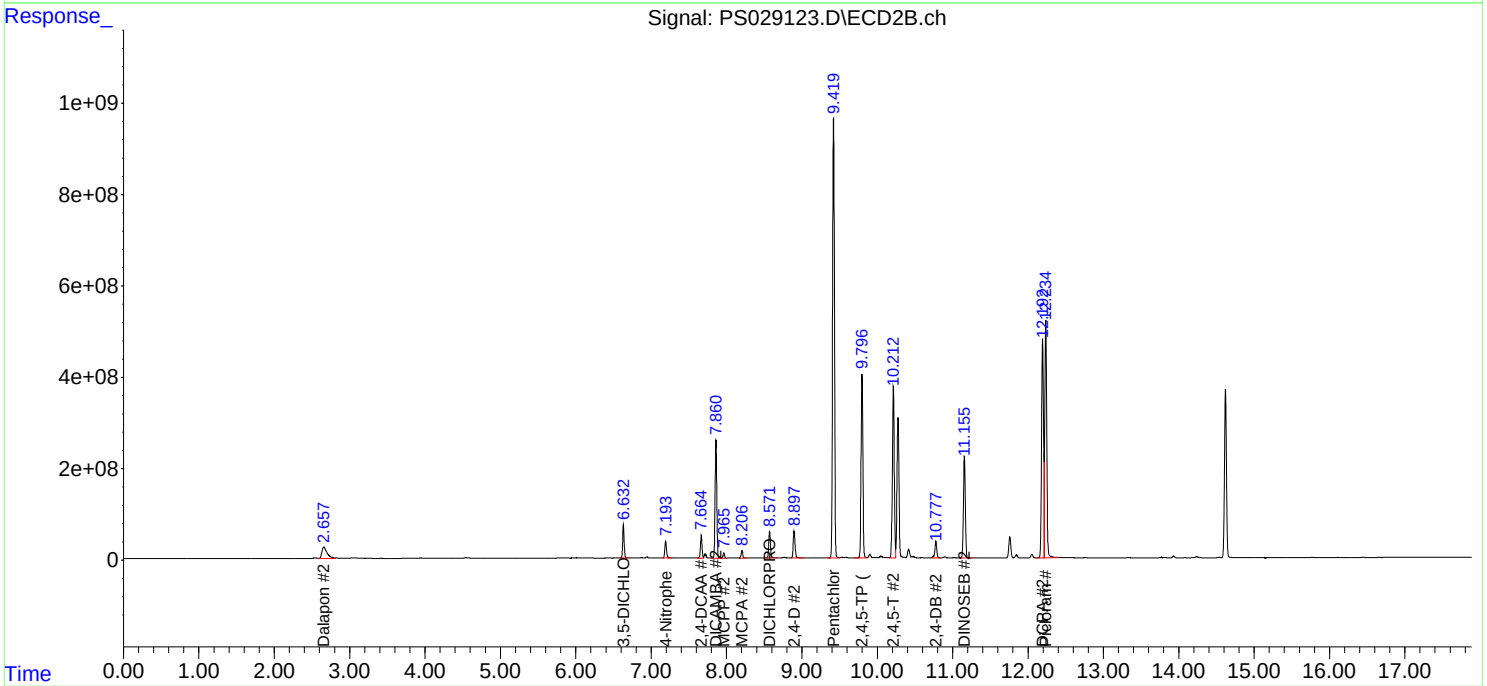
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021125\
Data File : PS029123.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Feb 2025 19:56
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 8 Sample Multiplier: 1

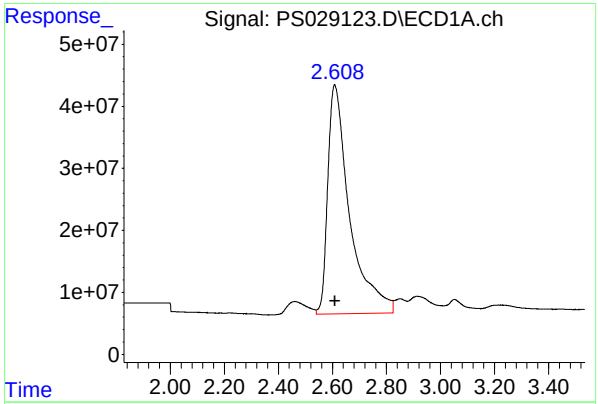
Instrument :
ECD_S
ClientSampleId :
ICVPS021125

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 12 10:12:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021125.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 10:01:00 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



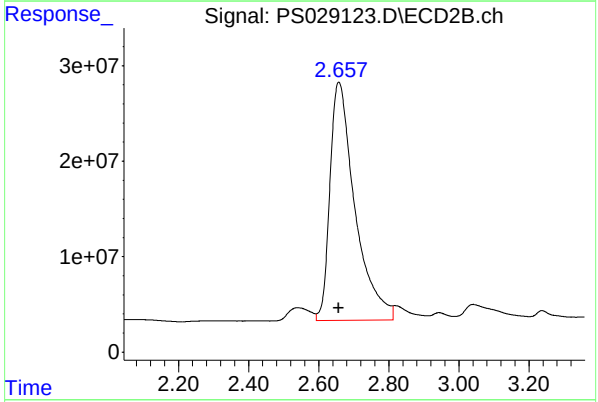




#1 Dalapon

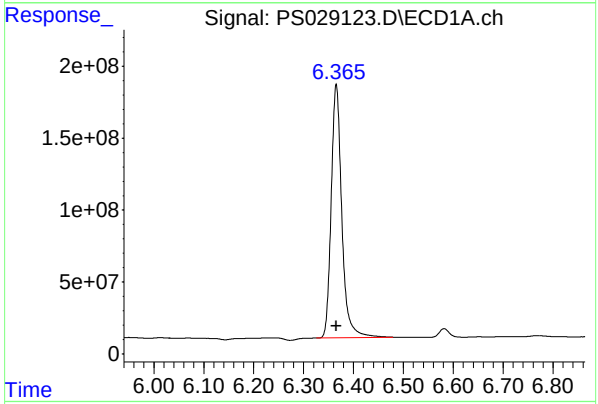
R.T.: 2.608 min
Delta R.T.: 0.000 min
Response: 2076965721
Conc: 656.63 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS021125



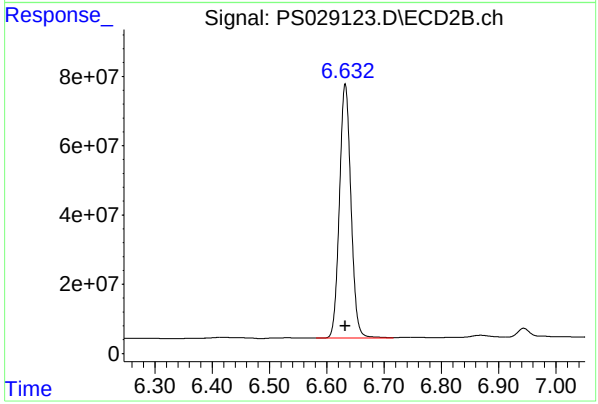
#1 Dalapon

R.T.: 2.657 min
Delta R.T.: 0.000 min
Response: 1235666025
Conc: 652.65 ng/ml



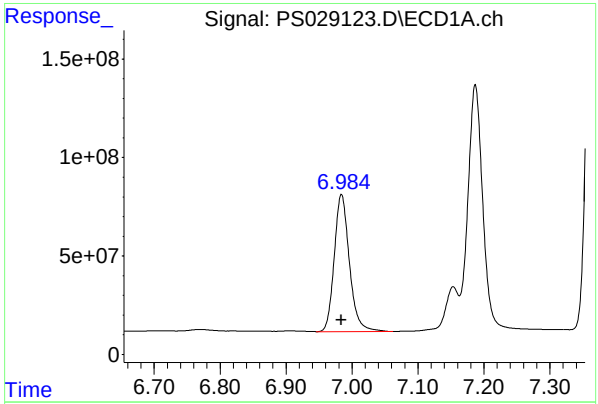
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.366 min
Delta R.T.: 0.000 min
Response: 2606956369
Conc: 658.03 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

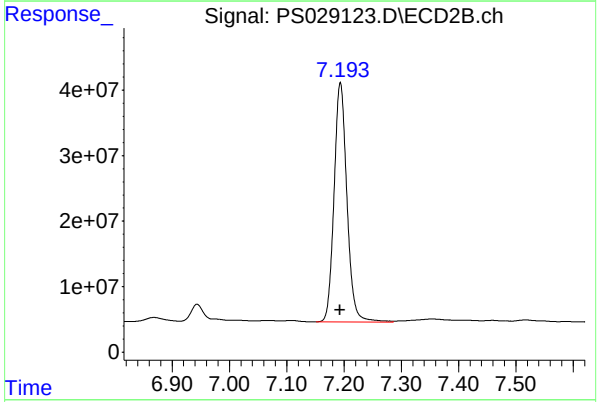
R.T.: 6.632 min
Delta R.T.: 0.000 min
Response: 1018659474
Conc: 665.85 ng/ml



#3 4-Nitrophenol

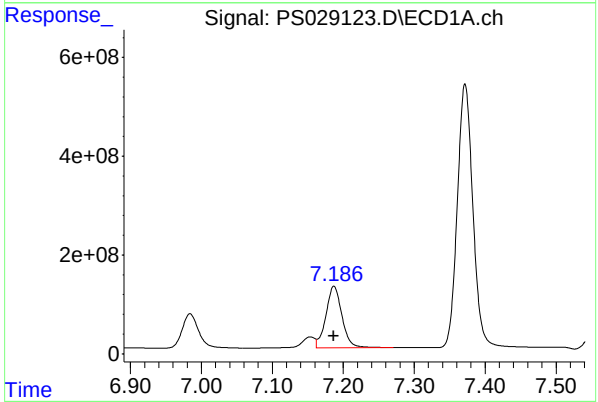
R.T.: 6.984 min
Delta R.T.: 0.000 min
Response: 1114250330
Conc: 653.49 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS021125



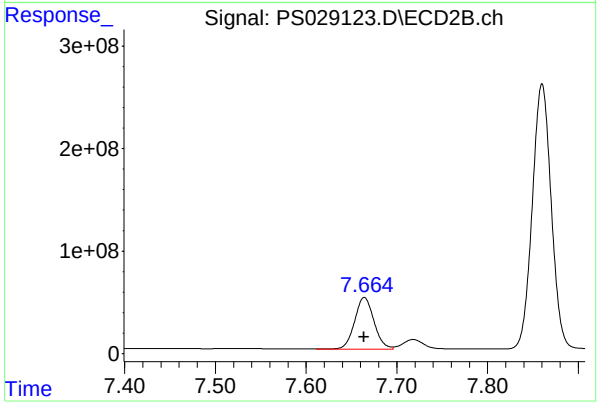
#3 4-Nitrophenol

R.T.: 7.194 min
Delta R.T.: 0.000 min
Response: 568965033
Conc: 656.02 ng/ml



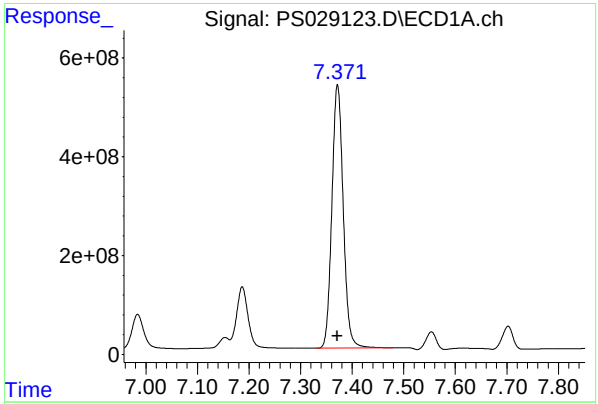
#4 2,4-DCAA

R.T.: 7.187 min
Delta R.T.: 0.000 min
Response: 1952502596
Conc: 706.44 ng/ml



#4 2,4-DCAA

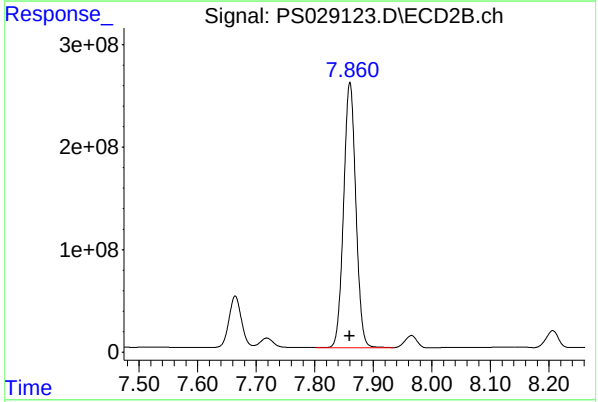
R.T.: 7.664 min
Delta R.T.: 0.000 min
Response: 747599704
Conc: 706.29 ng/ml



#5 DICAMBA

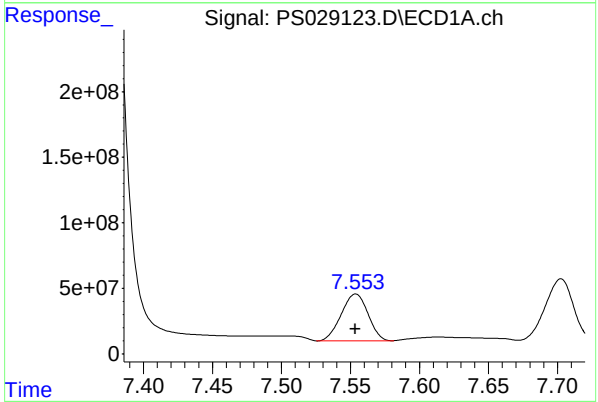
R.T.: 7.372 min
Delta R.T.: 0.000 mi
Response: 8129643046
Conc: 675.11 ng/m

Instrument :
ECD_S
ClientSampleId :
ICVPS021125



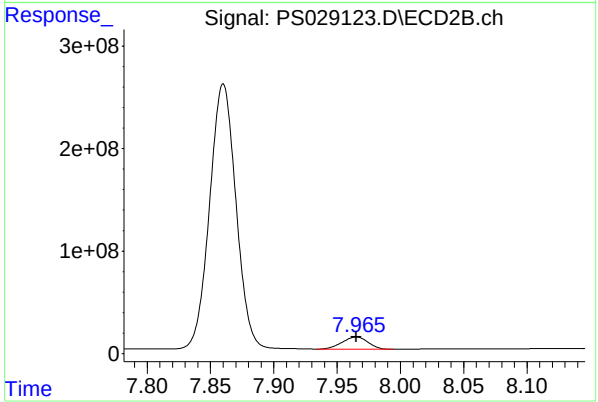
#5 DICAMBA

R.T.: 7.860 min
Delta R.T.: 0.000 min
Response: 3767047532
Conc: 681.62 ng/ml



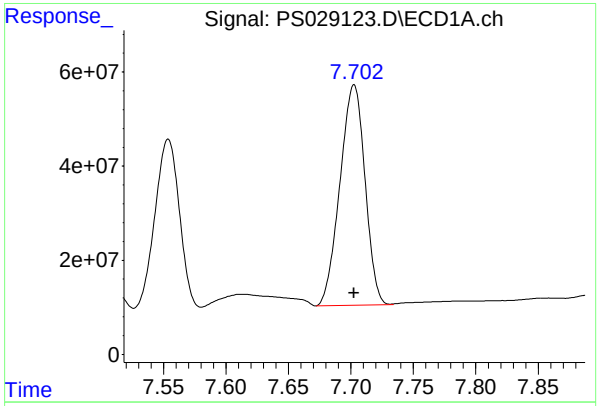
#6 MCPP

R.T.: 7.554 min
Delta R.T.: 0.000 min
Response: 482595548
Conc: 69.65 ug/ml



#6 MCPP

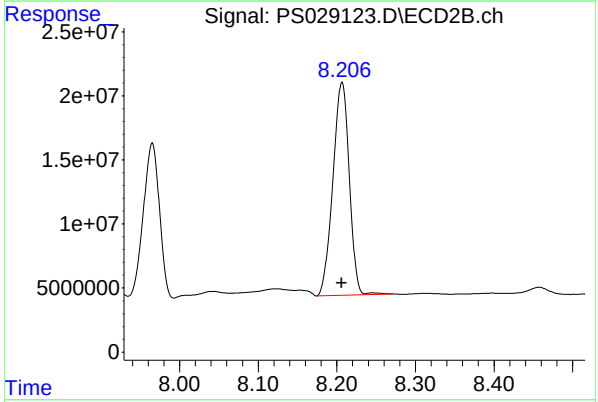
R.T.: 7.965 min
Delta R.T.: 0.000 min
Response: 171267864
Conc: 69.42 ug/ml



#7 MCPA

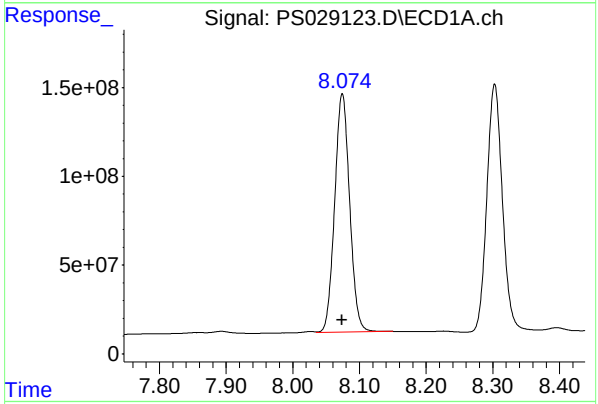
R.T.: 7.702 min
Delta R.T.: 0.000 min
Response: 653825993
Conc: 68.31 ug/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS021125



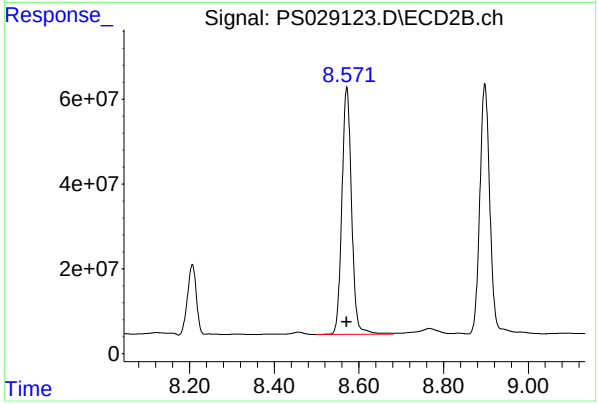
#7 MCPA

R.T.: 8.207 min
Delta R.T.: 0.000 min
Response: 240301892
Conc: 68.69 ug/ml



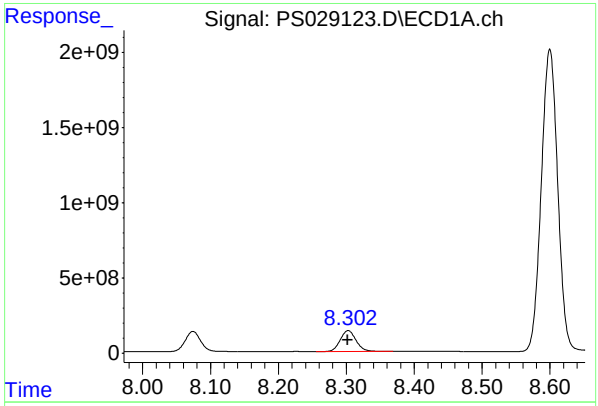
#8 DICHLORPROP

R.T.: 8.074 min
Delta R.T.: 0.000 min
Response: 2098811761
Conc: 664.38 ng/ml



#8 DICHLORPROP

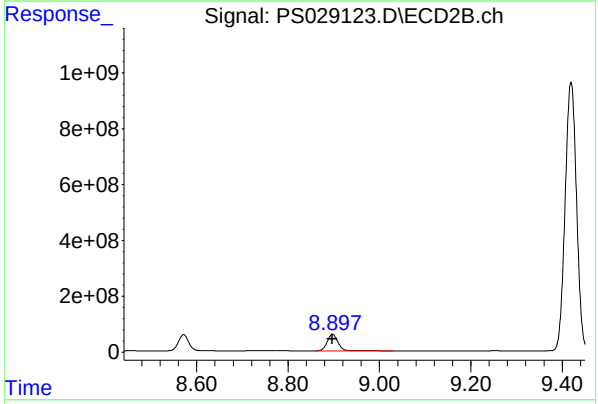
R.T.: 8.571 min
Delta R.T.: 0.000 min
Response: 925641710
Conc: 672.17 ng/ml



#9 2,4-D

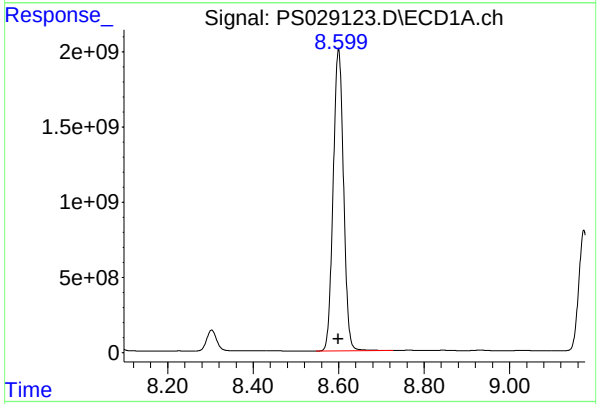
R.T.: 8.303 min
Delta R.T.: 0.000 min
Response: 2240967920
Conc: 666.14 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS021125



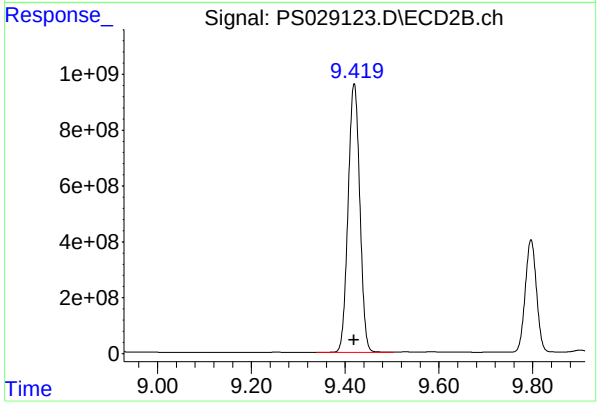
#9 2,4-D

R.T.: 8.897 min
Delta R.T.: 0.000 min
Response: 970053996
Conc: 677.12 ng/ml



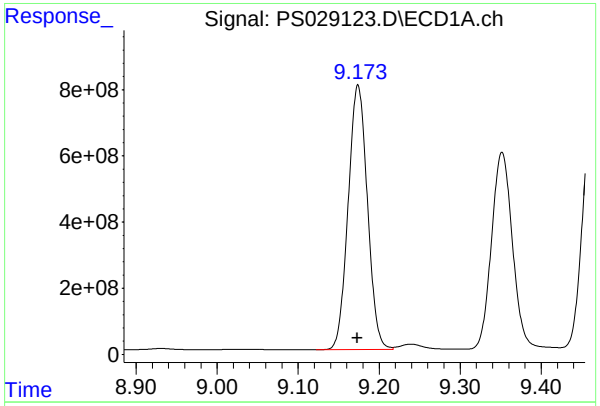
#10 Pentachlorophenol

R.T.: 8.600 min
Delta R.T.: 0.000 min
Response: 33808822983
Conc: 716.99 ng/ml



#10 Pentachlorophenol

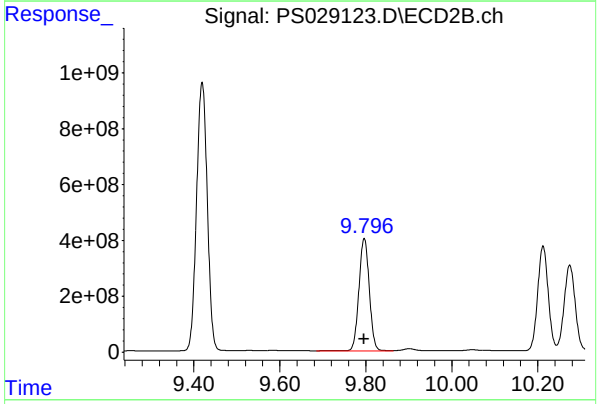
R.T.: 9.419 min
Delta R.T.: 0.000 min
Response: 16650586451
Conc: 690.33 ng/ml



#11 2,4,5-TP (SILVEX)

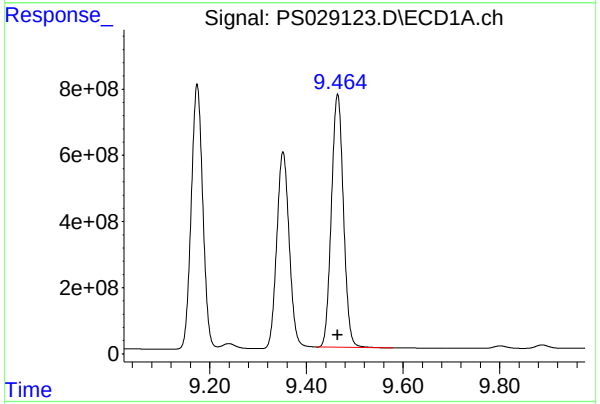
R.T.: 9.174 min
Delta R.T.: 0.000 min
Response: 13195079014
Conc: 680.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS021125



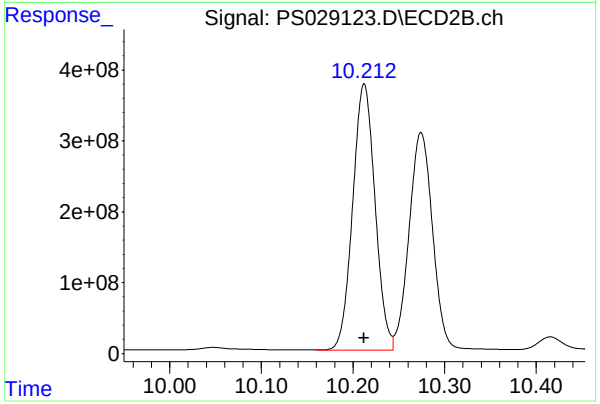
#11 2,4,5-TP (SILVEX)

R.T.: 9.796 min
Delta R.T.: 0.000 min
Response: 6719335105
Conc: 687.88 ng/ml



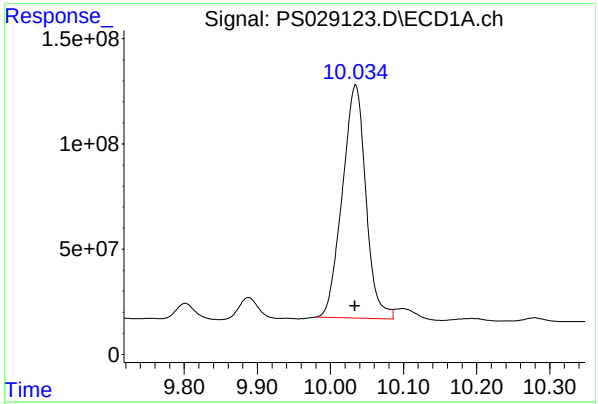
#12 2,4,5-T

R.T.: 9.465 min
Delta R.T.: 0.000 min
Response: 13210937006
Conc: 682.04 ng/ml



#12 2,4,5-T

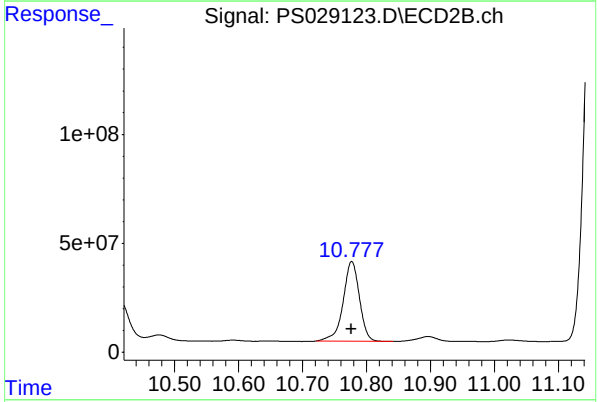
R.T.: 10.212 min
Delta R.T.: 0.000 min
Response: 6365547077
Conc: 687.25 ng/ml



#13 2,4-DB

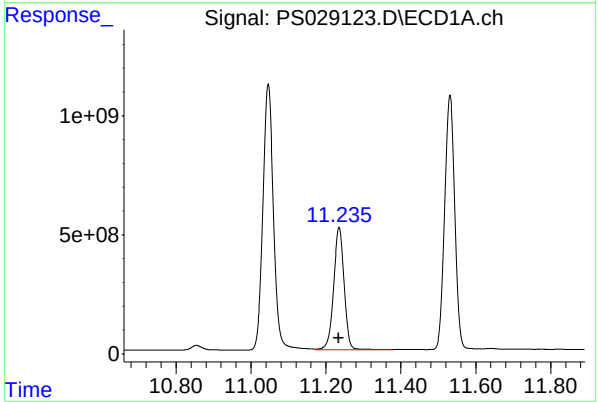
R.T.: 10.034 min
Delta R.T.: 0.000 min
Response: 2479062005
Conc: 667.08 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS021125



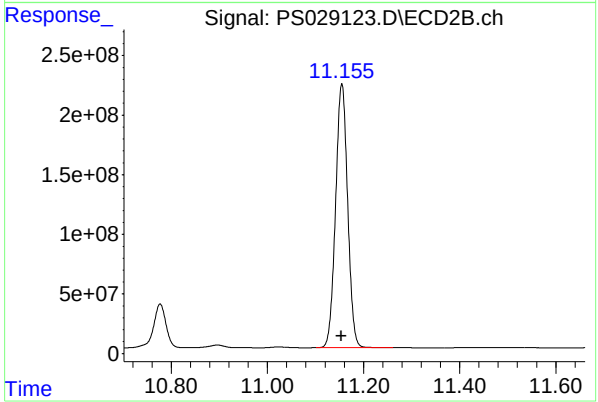
#13 2,4-DB

R.T.: 10.777 min
Delta R.T.: 0.000 min
Response: 647512809
Conc: 681.60 ng/ml



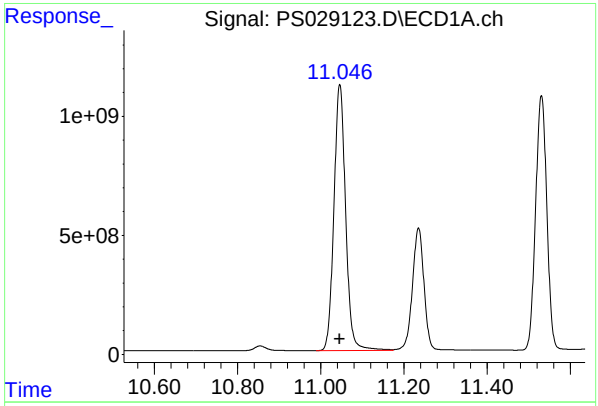
#14 DINOSEB

R.T.: 11.235 min
Delta R.T.: 0.000 min
Response: 9995213041
Conc: 689.30 ng/ml



#14 DINOSEB

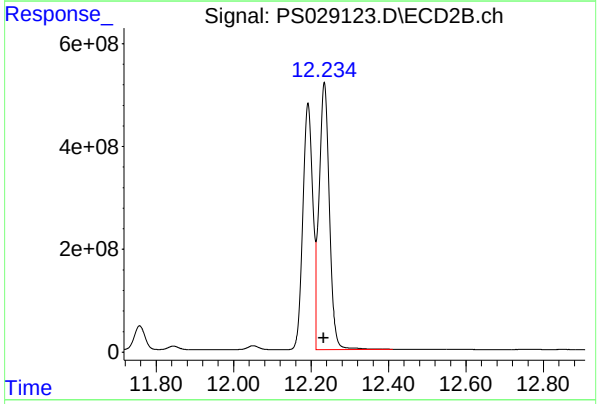
R.T.: 11.155 min
Delta R.T.: 0.001 min
Response: 3857600553
Conc: 699.51 ng/ml



#15 Picloram

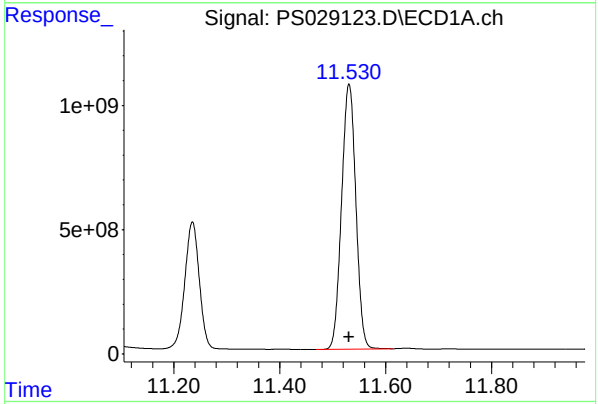
R.T.: 11.046 min
Delta R.T.: 0.000 min
Response: 21907355326
Conc: 685.62 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS021125



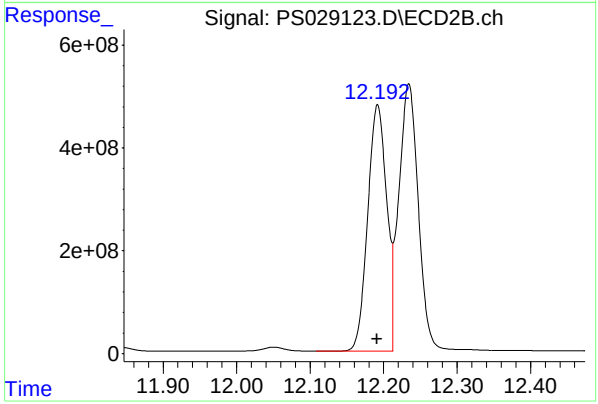
#15 Picloram

R.T.: 12.234 min
Delta R.T.: 0.002 min
Response: 9634402201
Conc: 700.74 ng/ml



#16 DCPA

R.T.: 11.531 min
Delta R.T.: 0.000 min
Response: 19970729614
Conc: 688.73 ng/ml



#16 DCPA

R.T.: 12.192 min
Delta R.T.: 0.000 min
Response: 8596708255
Conc: 696.95 ng/ml

Raw Data: **PS029160.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** Q1352 **SAS No.:** Q1352 **SDG NO.:** Q1352

Continuing Calib Date: 02/13/2025 **Initial Calibration Date(s):** 02/11/2025 02/11/2025

Continuing Calib Time: 18:36 **Initial Calibration Time(s):** 17:56 19:32

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.19	7.19	7.09	7.29	0.00
2,4-D	8.31	8.30	8.20	8.40	-0.01
2,4,5-TP(Silvex)	9.18	9.17	9.07	9.27	-0.01

Raw Data: **PS029160.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** Q1352 **SAS No.:** Q1352 **SDG NO.:** Q1352

Continuing Calib Date: 02/13/2025 **Initial Calibration Date(s):** 02/11/2025 02/11/2025

Continuing Calib Time: 18:36 **Initial Calibration Time(s):** 17:56 19:32

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.66	7.66	7.56	7.76	0.00
2,4-D	8.90	8.90	8.80	9.00	0.00
2,4,5-TP(Silvex)	9.79	9.80	9.70	9.90	0.01

Raw Data: **PS029160.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** Q1352 **SAS No.:** Q1352 **SDG NO.:** Q1352

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/11/2025 02/11/2025

Client Sample No.: CCAL01 **Date Analyzed:** 02/13/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS029160.D **Time Analyzed:** 18:36

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.175	9.073	9.273	729.100	712.500	2.3
2,4-D	8.305	8.202	8.402	711.710	705.000	1.0
2,4-DCAA	7.189	7.087	7.287	750.850	750.000	0.1

Raw Data: **PS029160.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** Q1352 **SAS No.:** Q1352 **SDG NO.:** Q1352

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/11/2025 02/11/2025

Client Sample No.: CCAL01 **Date Analyzed:** 02/13/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS029160.D **Time Analyzed:** 18:36

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.793	9.696	9.896	718.930	712.500	0.9
2,4-D	8.895	8.797	8.997	694.290	705.000	-1.5
2,4-DCAA	7.663	7.564	7.764	727.200	750.000	-3.0

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021325\
Data File : PS029160.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Feb 2025 18:36
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 14 01:21:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021225.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 09:17:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	7.189	7.663	2075.2E6	769.7E6	750.845	727.202
		Target Compounds						
1)	T	Dalapon	2.612	2.658	2133.9E6	1244.2E6	674.643	657.160
2)	T	3,5-DICHL...	6.367	6.631	2778.1E6	1057.3E6	701.229	691.122
3)	T	4-Nitroph...	6.987	7.192	1220.6E6	607.9E6	715.879	700.862
5)	T	DICAMBA	7.374	7.857	8743.7E6	3933.9E6	726.106	711.821
6)	T	MCPP	7.556	7.963	516.0E6	181.9E6	74.481	73.708
7)	T	MCPA	7.705	8.204	697.9E6	251.4E6	72.909	71.853
8)	T	DICHLORPROP	8.076	8.568	2245.8E6	960.6E6	710.913	697.532
9)	T	2,4-D	8.305	8.895	2394.3E6	994.7E6	711.712	694.292
10)	T	Pentachlo...	8.601	9.416	36297.4E6	17416.3E6	769.764	722.080
11)	T	2,4,5-TP ...	9.175	9.793	14137.5E6	7022.6E6	729.100	718.929
12)	T	2,4,5-T	9.466	10.209	14132.3E6	6624.5E6	729.612	715.212
13)	T	2,4-DB	10.036	10.773	2635.2E6	663.7E6	709.099	698.615
14)	T	DINOSEB	11.237	11.150	11526.3E6	4449.5E6	794.884	806.847
15)	T	Picloram	11.048	12.230	22675.2E6	9528.9E6	709.655	693.067
16)	T	DCPA	11.533	12.187	21381.7E6	8976.7E6	737.394	727.751

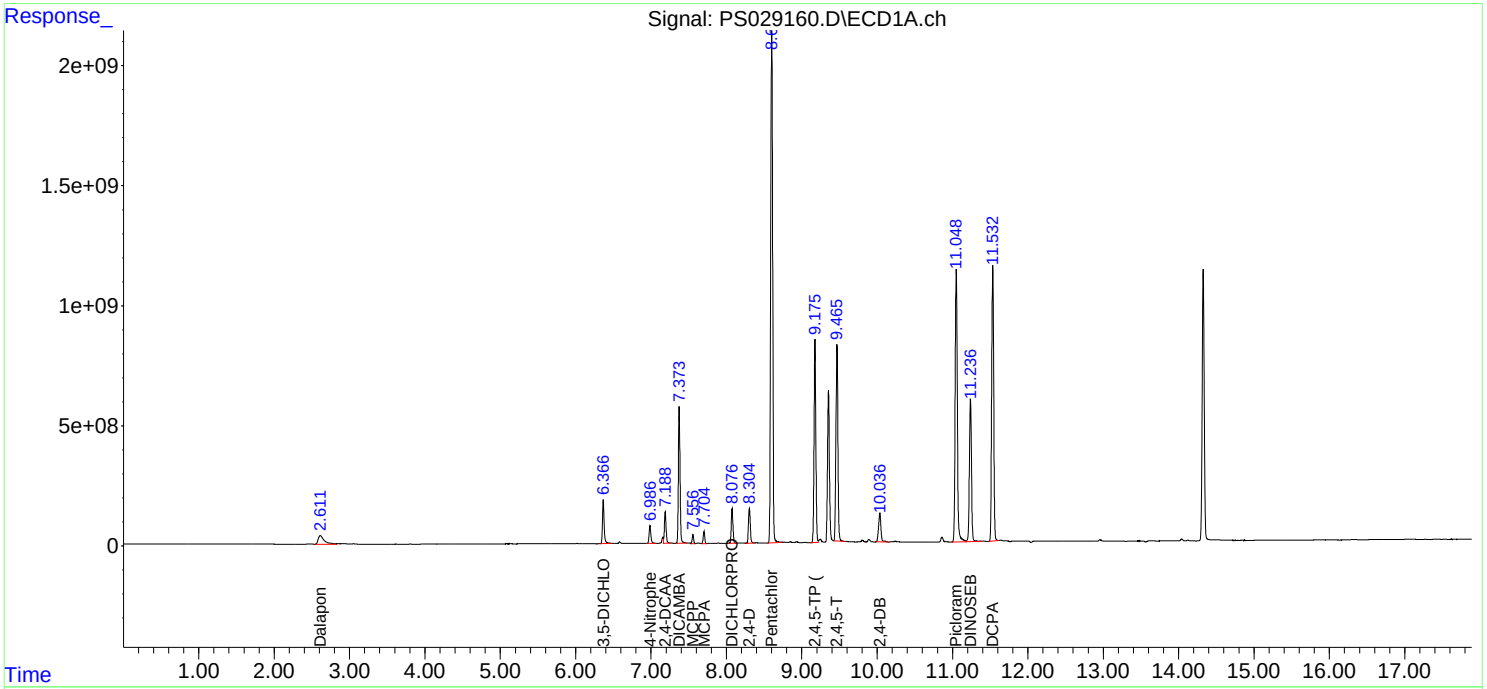
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

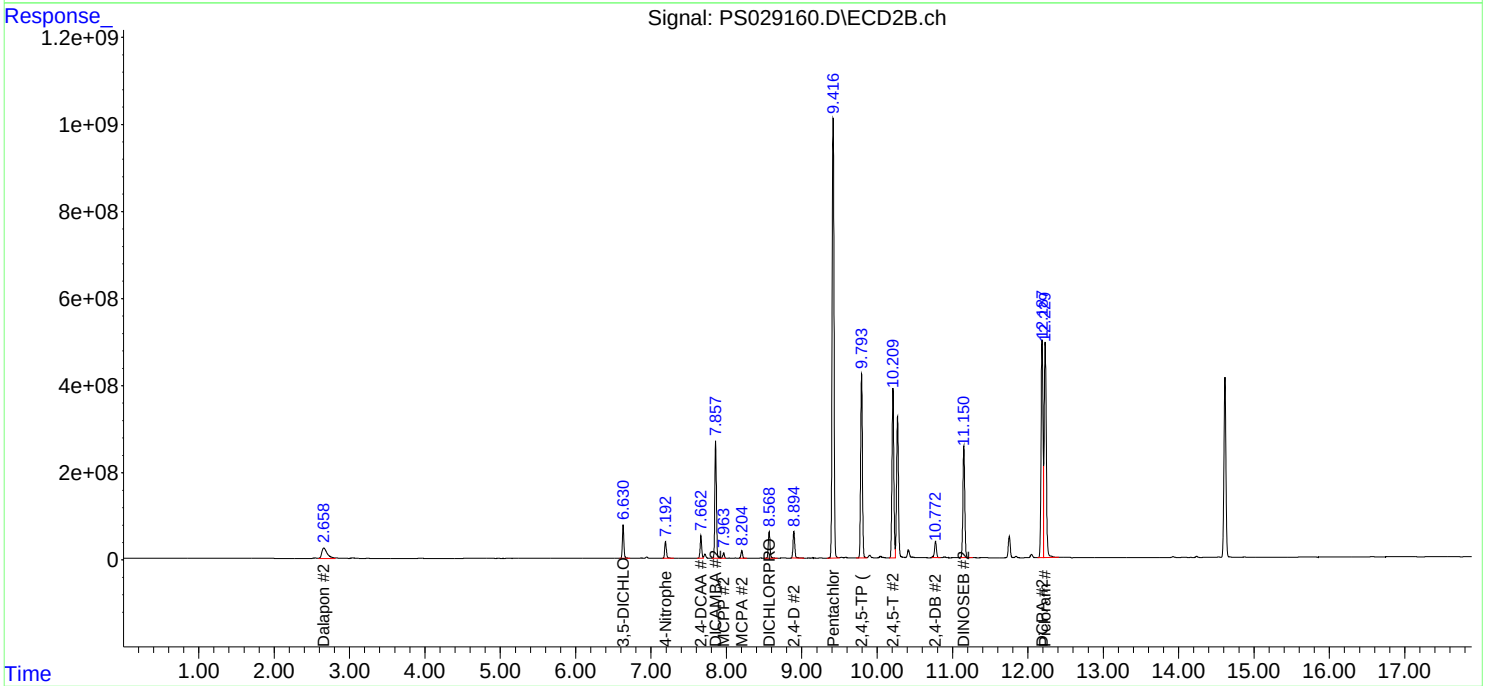
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021325\
Data File : PS029160.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Feb 2025 18:36
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

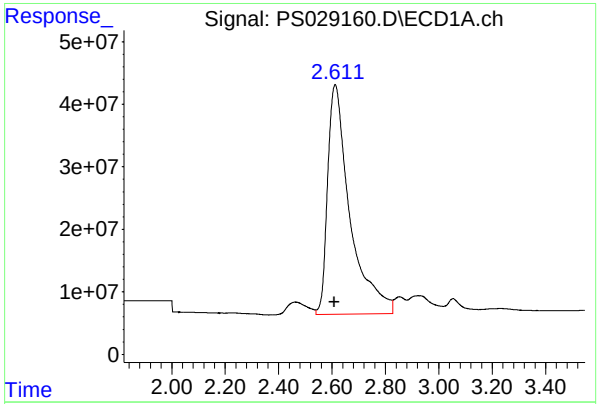
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 14 01:21:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021225.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 09:17:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



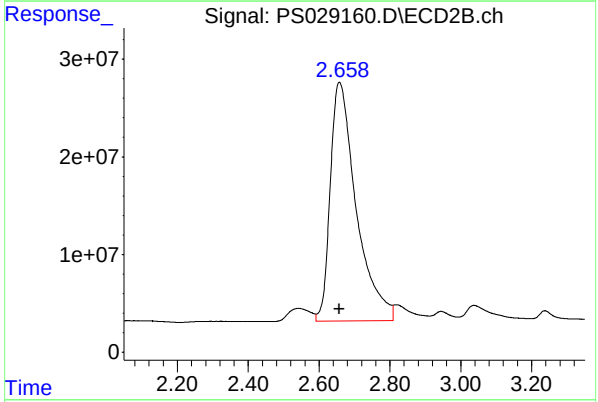




#1 Dalapon

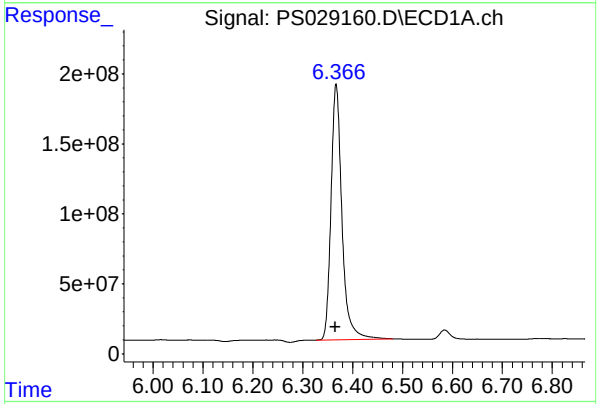
R.T.: 2.612 min
Delta R.T.: 0.003 min
Response: 2133929977
Conc: 674.64 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



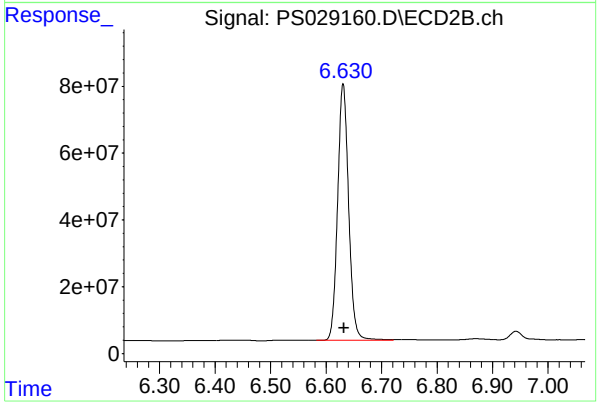
#1 Dalapon

R.T.: 2.658 min
Delta R.T.: 0.000 min
Response: 1244201683
Conc: 657.16 ng/ml



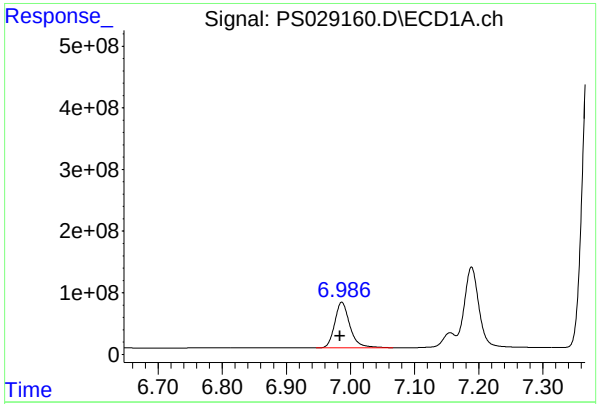
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.367 min
Delta R.T.: 0.002 min
Response: 2778110403
Conc: 701.23 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

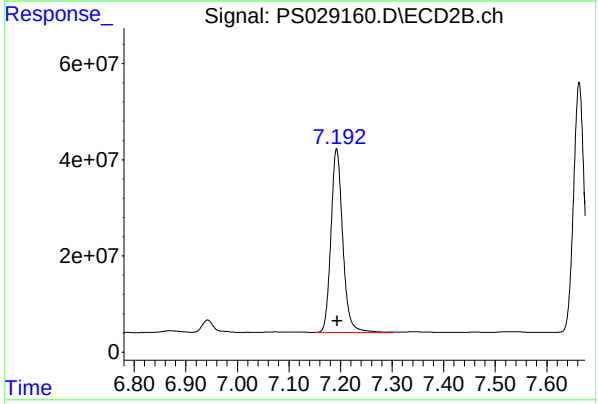
R.T.: 6.631 min
Delta R.T.: -0.001 min
Response: 1057323493
Conc: 691.12 ng/ml



#3 4-Nitrophenol

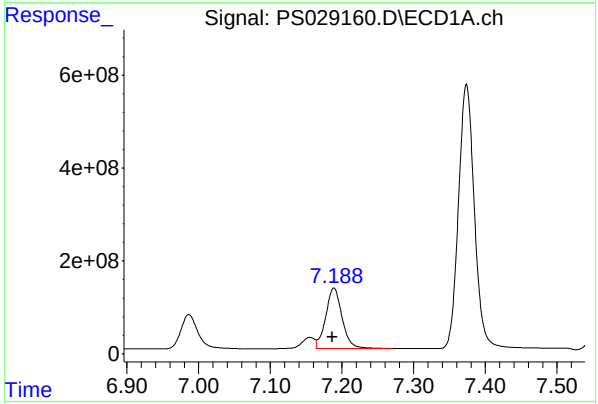
R.T.: 6.987 min
Delta R.T.: 0.003 min
Response: 1220624235
Conc: 715.88 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



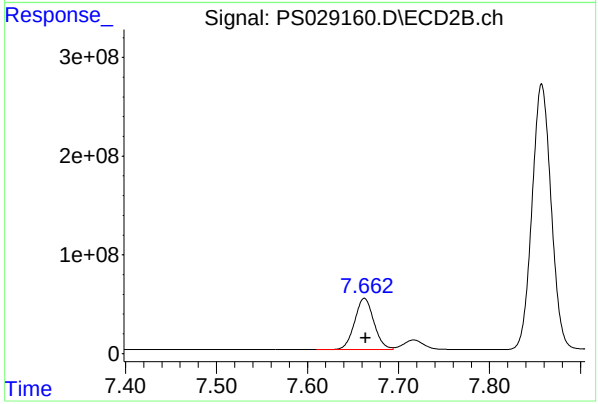
#3 4-Nitrophenol

R.T.: 7.192 min
Delta R.T.: 0.000 min
Response: 607856767
Conc: 700.86 ng/ml



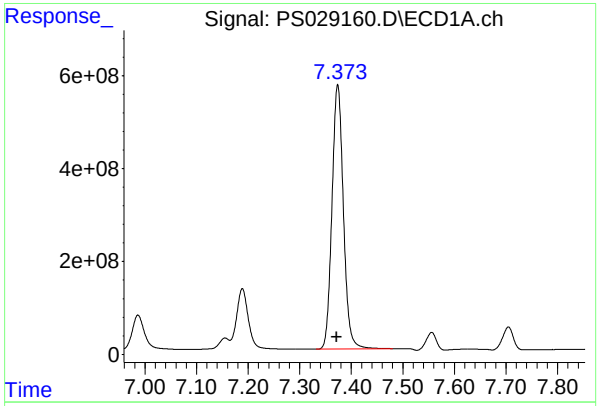
#4 2,4-DCAA

R.T.: 7.189 min
Delta R.T.: 0.002 min
Response: 2075228455
Conc: 750.85 ng/ml



#4 2,4-DCAA

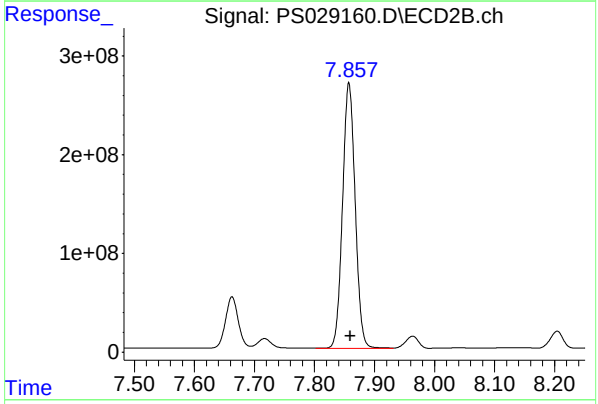
R.T.: 7.663 min
Delta R.T.: -0.001 min
Response: 769740244
Conc: 727.20 ng/ml



#5 DICAMBA

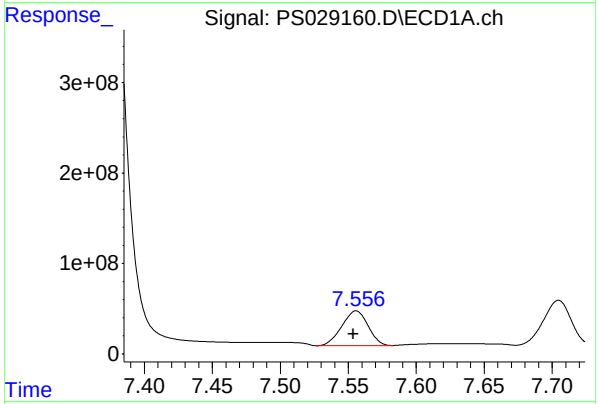
R.T.: 7.374 min
Delta R.T.: 0.002 min
Response: 8743733401
Conc: 726.11 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



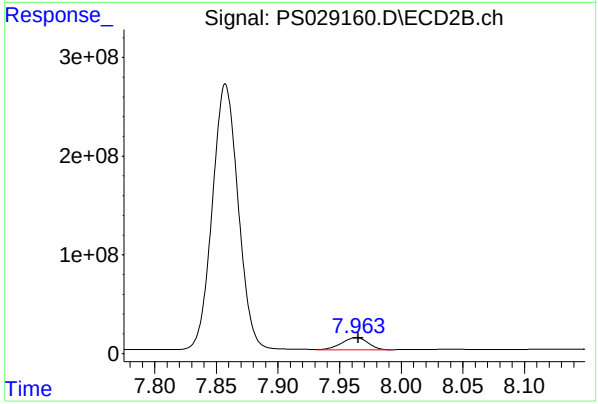
#5 DICAMBA

R.T.: 7.857 min
Delta R.T.: -0.002 min
Response: 3933946551
Conc: 711.82 ng/ml



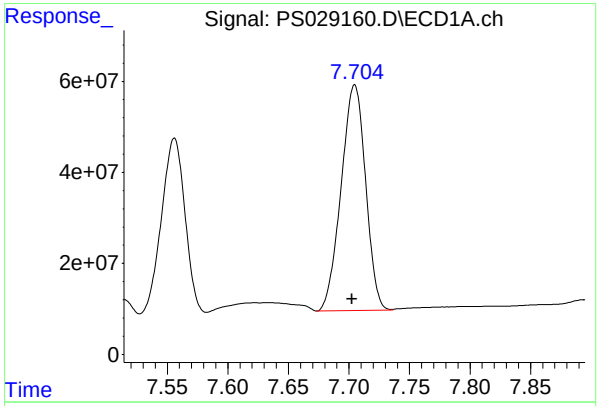
#6 MCPP

R.T.: 7.556 min
Delta R.T.: 0.002 min
Response: 516036915
Conc: 74.48 ug/ml



#6 MCPP

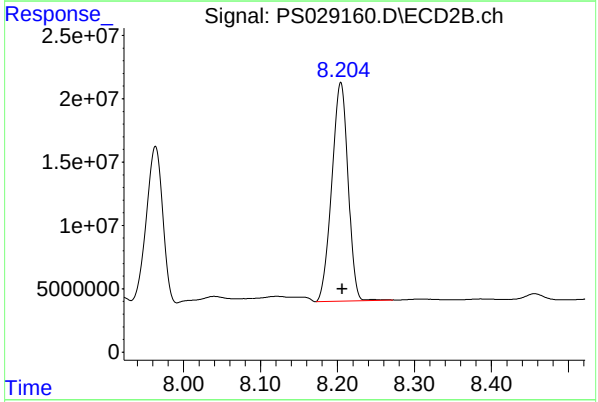
R.T.: 7.963 min
Delta R.T.: -0.002 min
Response: 181853654
Conc: 73.71 ug/ml



#7 MCPA

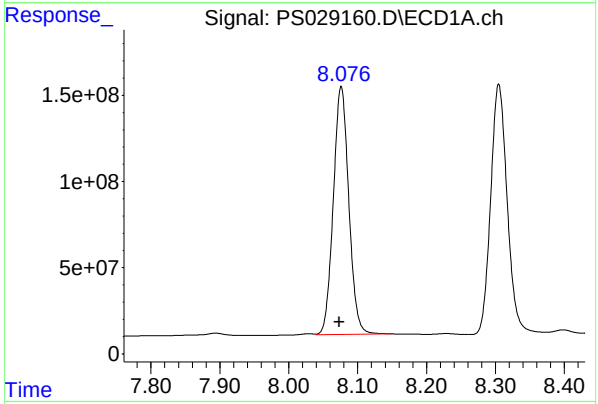
R.T.: 7.705 min
Delta R.T.: 0.002 min
Response: 697893442
Conc: 72.91 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



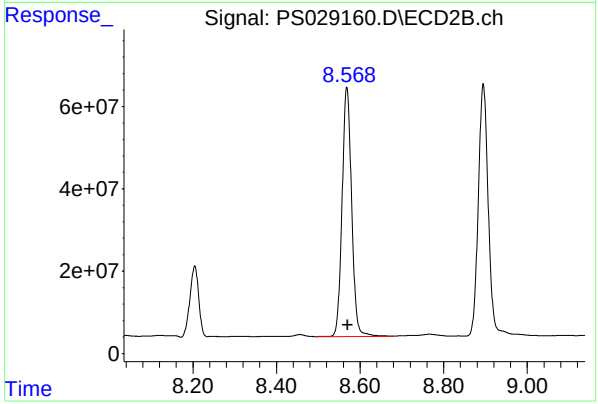
#7 MCPA

R.T.: 8.204 min
Delta R.T.: -0.002 min
Response: 251367715
Conc: 71.85 ug/ml



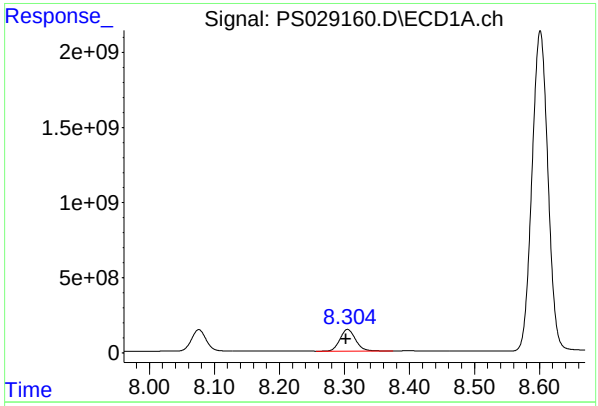
#8 DICHLORPROP

R.T.: 8.076 min
Delta R.T.: 0.002 min
Response: 2245818849
Conc: 710.91 ng/ml



#8 DICHLORPROP

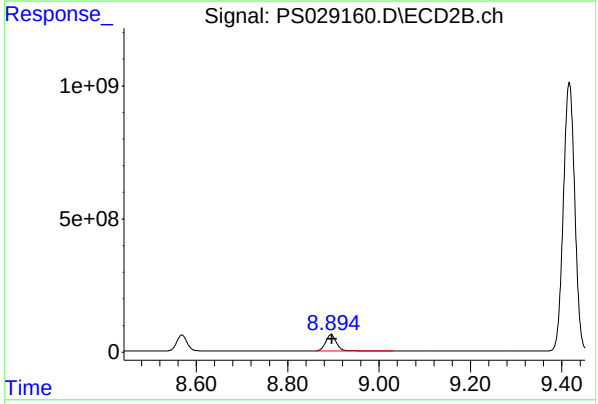
R.T.: 8.568 min
Delta R.T.: -0.003 min
Response: 960564008
Conc: 697.53 ng/ml



#9 2,4-D

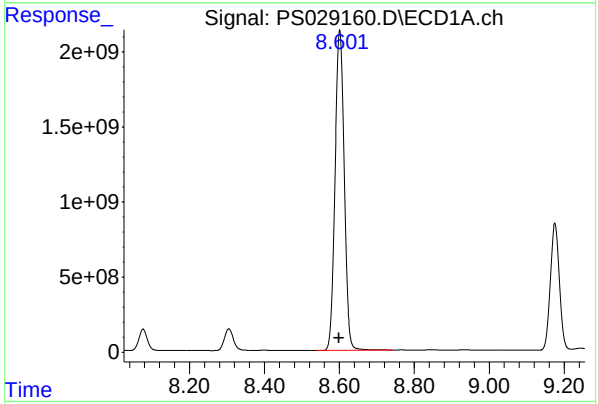
R.T.: 8.305 min
Delta R.T.: 0.003 min
Response: 2394264618
Conc: 711.71 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



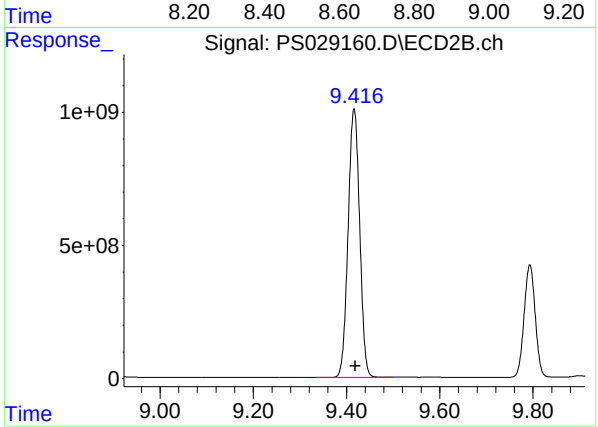
#9 2,4-D

R.T.: 8.895 min
Delta R.T.: -0.002 min
Response: 994661609
Conc: 694.29 ng/ml



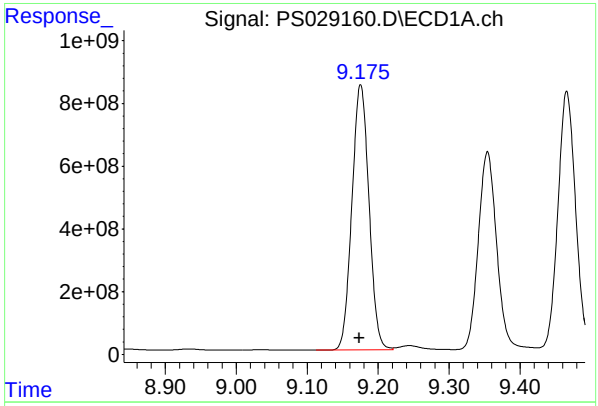
#10 Pentachlorophenol

R.T.: 8.601 min
Delta R.T.: 0.002 min
Response: 36297434683
Conc: 769.76 ng/ml



#10 Pentachlorophenol

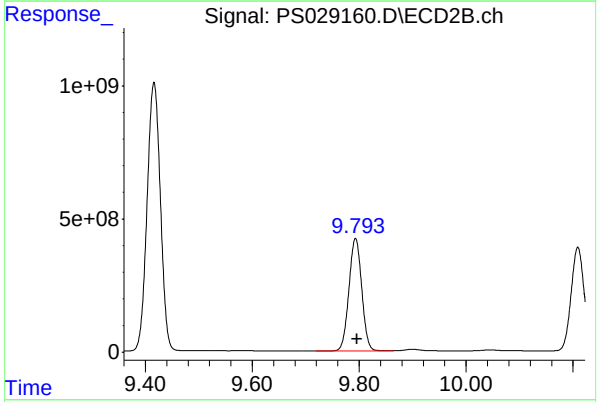
R.T.: 9.416 min
Delta R.T.: -0.003 min
Response: 17416307624
Conc: 722.08 ng/ml



#11 2,4,5-TP (SILVEX)

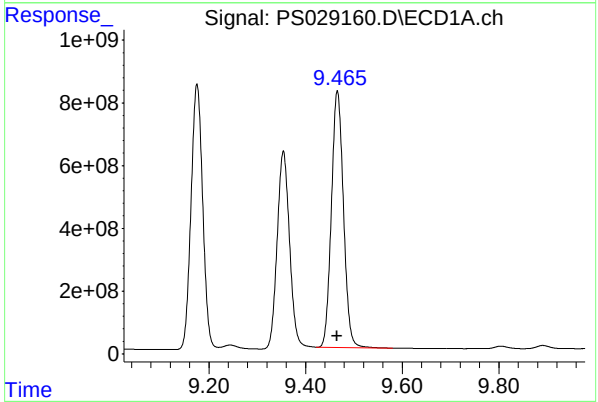
R.T.: 9.175 min
Delta R.T.: 0.002 min
Response: 14137494512
Conc: 729.10 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



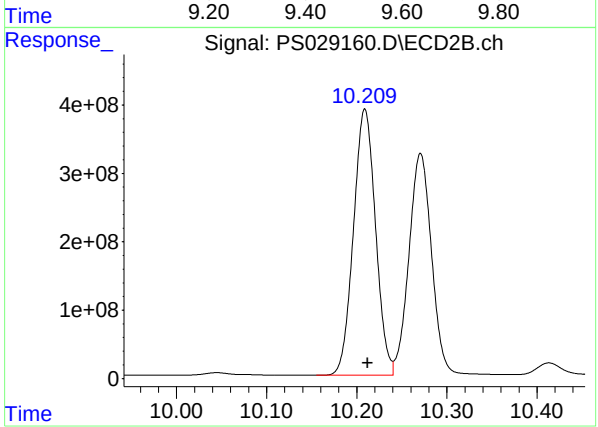
#11 2,4,5-TP (SILVEX)

R.T.: 9.793 min
Delta R.T.: -0.003 min
Response: 7022646245
Conc: 718.93 ng/ml



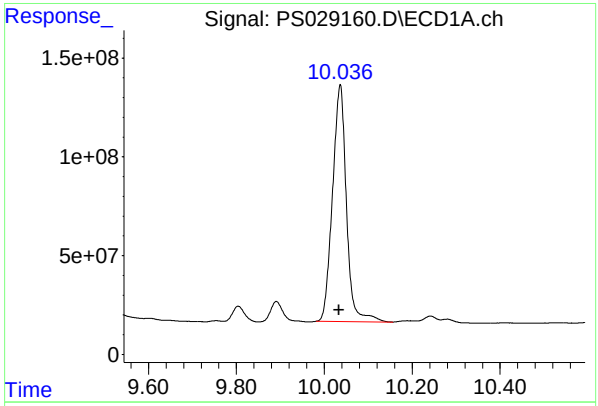
#12 2,4,5-T

R.T.: 9.466 min
Delta R.T.: 0.001 min
Response: 14132337494
Conc: 729.61 ng/ml



#12 2,4,5-T

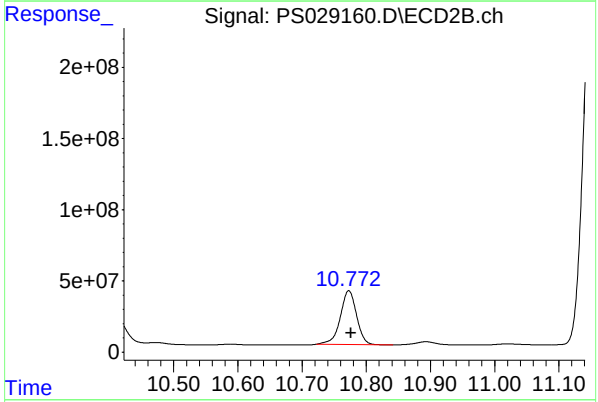
R.T.: 10.209 min
Delta R.T.: -0.003 min
Response: 6624496108
Conc: 715.21 ng/ml



#13 2,4-DB

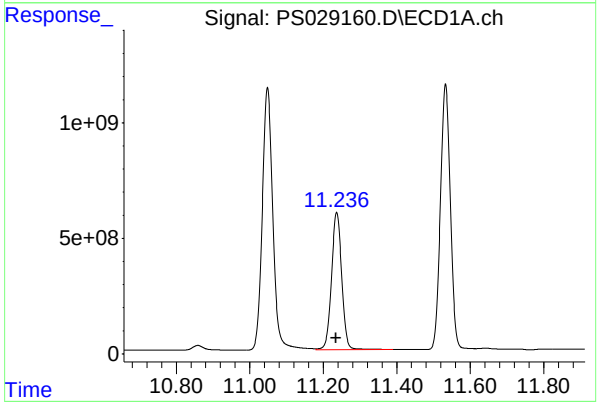
R.T.: 10.036 min
Delta R.T.: 0.002 min
Response: 2635218338
Conc: 709.10 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



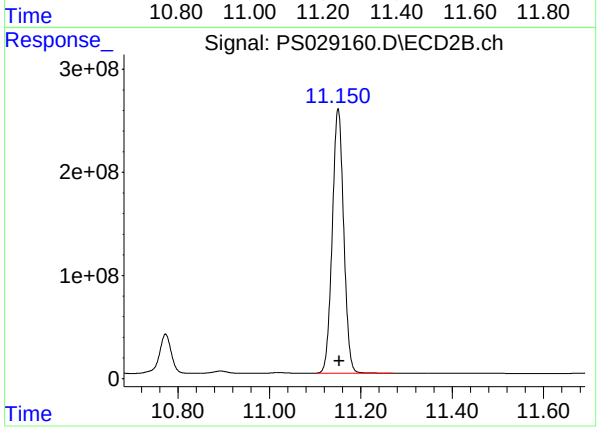
#13 2,4-DB

R.T.: 10.773 min
Delta R.T.: -0.003 min
Response: 663677256
Conc: 698.62 ng/ml



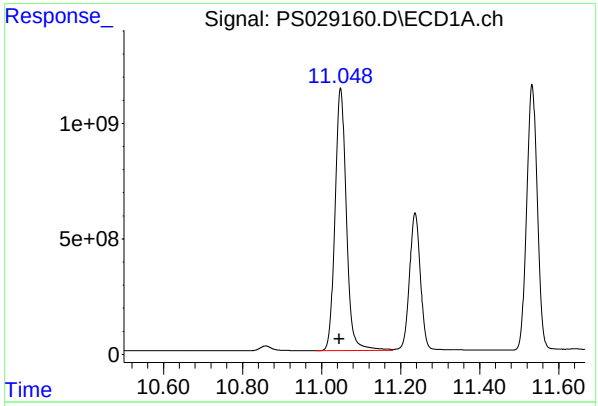
#14 DINOSEB

R.T.: 11.237 min
Delta R.T.: 0.002 min
Response: 11526306380
Conc: 794.88 ng/ml



#14 DINOSEB

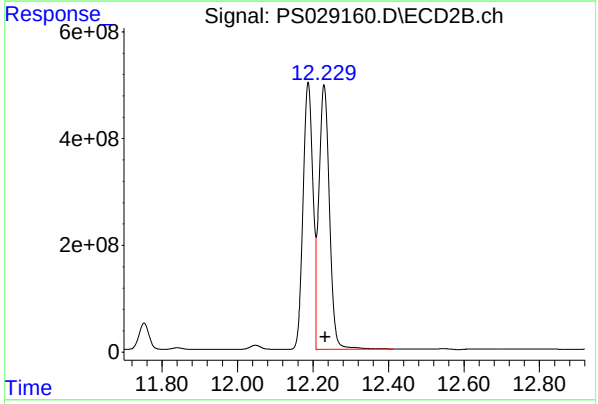
R.T.: 11.150 min
Delta R.T.: -0.003 min
Response: 4449513690
Conc: 806.85 ng/ml



#15 Picloram

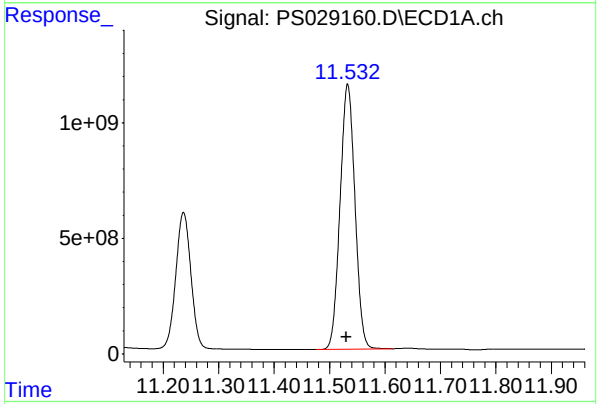
R.T.: 11.048 min
Delta R.T.: 0.003 min
Response: 22675218890
Conc: 709.66 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



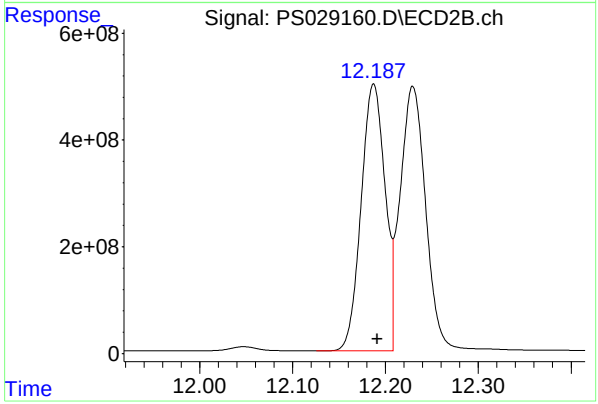
#15 Picloram

R.T.: 12.230 min
Delta R.T.: -0.003 min
Response: 9528887742
Conc: 693.07 ng/ml



#16 DCPA

R.T.: 11.533 min
Delta R.T.: 0.002 min
Response: 21381696388
Conc: 737.39 ng/ml



#16 DCPA

R.T.: 12.187 min
Delta R.T.: -0.004 min
Response: 8976683186
Conc: 727.75 ng/ml

Raw Data: **PS029167.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** Q1352 **SAS No.:** Q1352 **SDG NO.:** Q1352

Continuing Calib Date: 02/13/2025 **Initial Calibration Date(s):** 02/11/2025 02/11/2025

Continuing Calib Time: 21:48 **Initial Calibration Time(s):** 17:56 19:32

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.19	7.19	7.09	7.29	0.00
2,4-D	8.30	8.30	8.20	8.40	0.00
2,4,5-TP(Silvex)	9.17	9.17	9.07	9.27	0.00

Raw Data: **PS029167.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** Q1352 **SAS No.:** Q1352 **SDG NO.:** Q1352

Continuing Calib Date: 02/13/2025 **Initial Calibration Date(s):** 02/11/2025 02/11/2025

Continuing Calib Time: 21:48 **Initial Calibration Time(s):** 17:56 19:32

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.66	7.66	7.56	7.76	0.00
2,4-D	8.89	8.90	8.80	9.00	0.01
2,4,5-TP(Silvex)	9.79	9.80	9.70	9.90	0.01

Raw Data: **PS029167.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** Q1352 **SAS No.:** Q1352 **SDG NO.:** Q1352

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/11/2025 02/11/2025

Client Sample No.: CCAL02 **Date Analyzed:** 02/13/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS029167.D **Time Analyzed:** 21:48

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.174	9.073	9.273	712.400	712.500	0.0
2,4-D	8.304	8.202	8.402	690.020	705.000	-2.1
2,4-DCAA	7.188	7.087	7.287	733.660	750.000	-2.2

Raw Data: **PS029167.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** Q1352 **SAS No.:** Q1352 **SDG NO.:** Q1352

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/11/2025 02/11/2025

Client Sample No.: CCAL02 **Date Analyzed:** 02/13/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS029167.D **Time Analyzed:** 21:48

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.793	9.696	9.896	706.270	712.500	-0.9
2,4-D	8.894	8.797	8.997	677.350	705.000	-3.9
2,4-DCAA	7.662	7.564	7.764	712.360	750.000	-5.0

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021325\
Data File : PS029167.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Feb 2025 21:48
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 14 01:24:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021225.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 09:17:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	7.188	7.662	2027.7E6	754.0E6	733.657	712.357
		Target Compounds						
1)	T	Dalapon	2.612	2.659	2028.3E6	1247.3E6	641.245	658.795
2)	T	3,5-DICHL...	6.367	6.631	2713.2E6	1041.8E6	684.857	680.967
3)	T	4-Nitroph...	6.986	7.192	1187.9E6	589.7E6	696.701	679.961
5)	T	DICAMBA	7.372	7.857	8529.0E6	3866.1E6	708.275	699.542
6)	T	MCPP	7.555	7.963	506.5E6	179.2E6	73.104	72.618
7)	T	MCPA	7.704	8.204	686.3E6	248.2E6	71.702	70.949
8)	T	DICHLORPROP	8.075	8.568	2195.9E6	944.2E6	695.106	685.656
9)	T	2,4-D	8.304	8.894	2321.3E6	970.4E6	690.020	677.354
10)	T	Pentachlo...	8.600	9.416	35543.0E6	17157.0E6	753.764	711.330
11)	T	2,4,5-TP ...	9.174	9.793	13813.7E6	6899.0E6	712.402	706.267
12)	T	2,4,5-T	9.465	10.209	13729.1E6	6465.3E6	708.794	698.029
13)	T	2,4-DB	10.034	10.773	2522.1E6	649.3E6	678.650	683.490
14)	T	DINOSEB	11.235	11.150	11065.6E6	4266.1E6	763.115	773.581
15)	T	Picloram	11.047	12.231	21809.6E6	9095.4E6	682.563	661.541
16)	T	DCPA	11.530	12.188	20967.3E6	8866.2E6	723.104	718.796

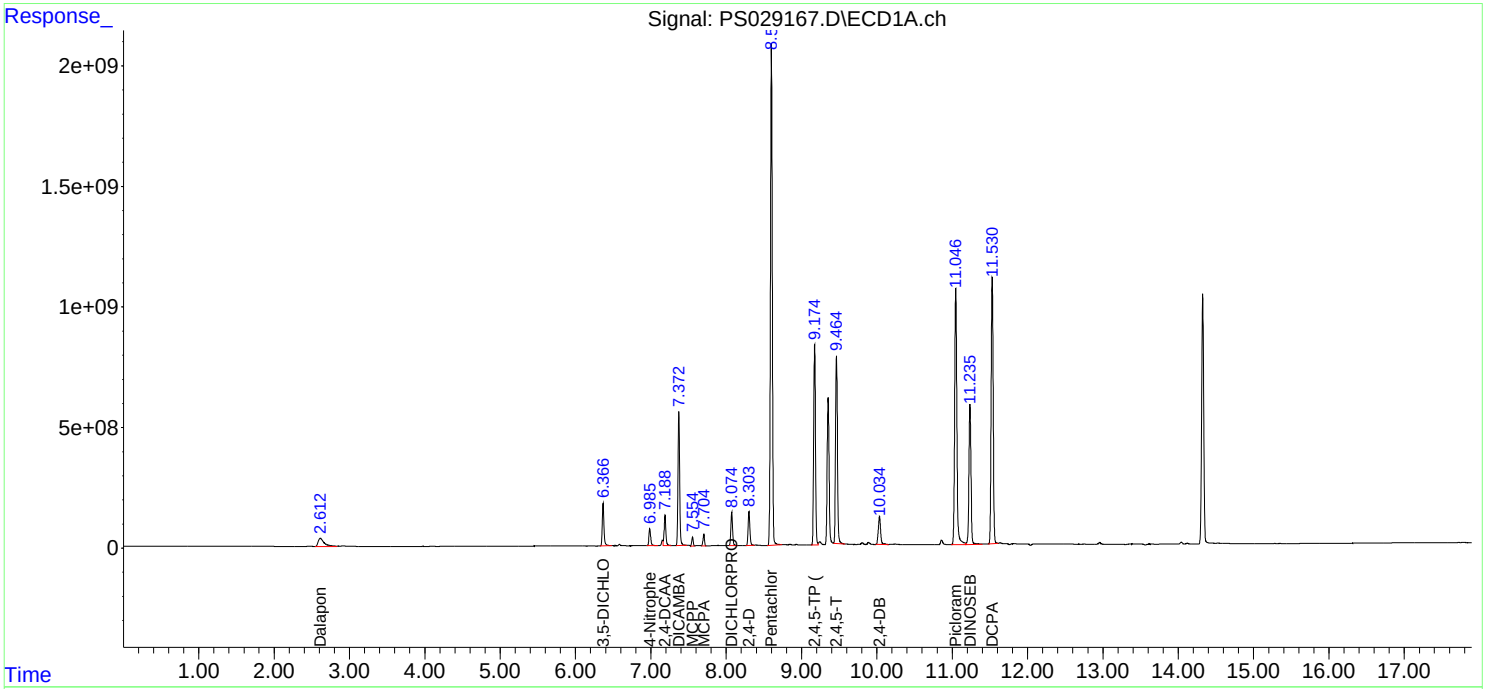
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

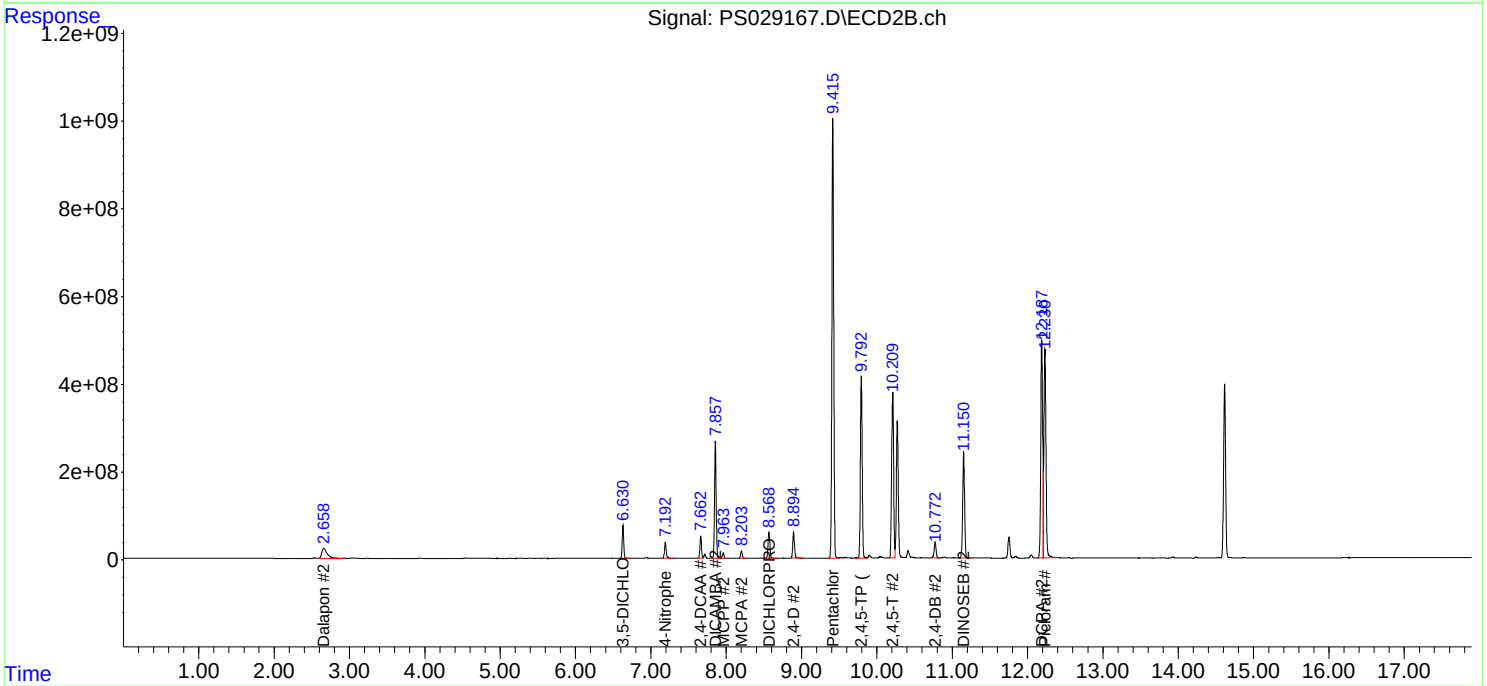
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021325\
Data File : PS029167.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Feb 2025 21:48
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

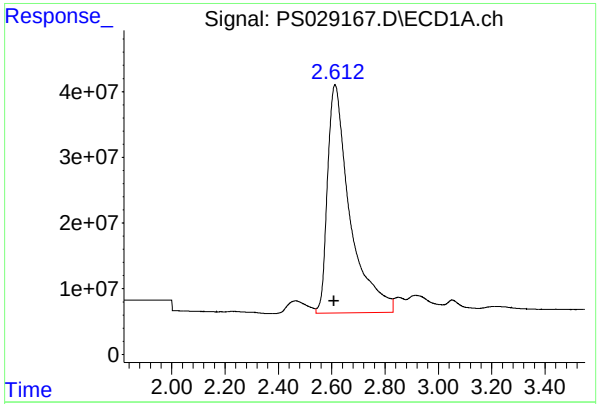
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 14 01:24:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021225.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 09:17:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



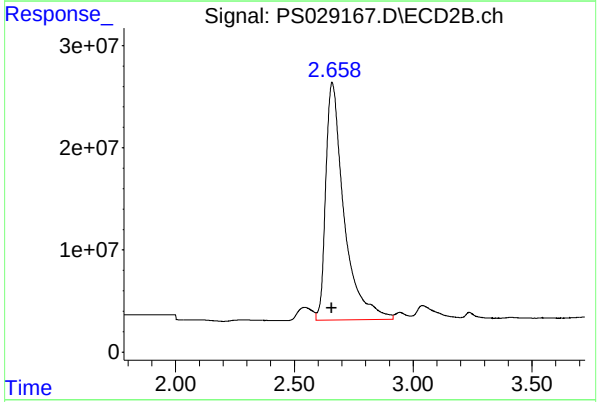




#1 Dalapon

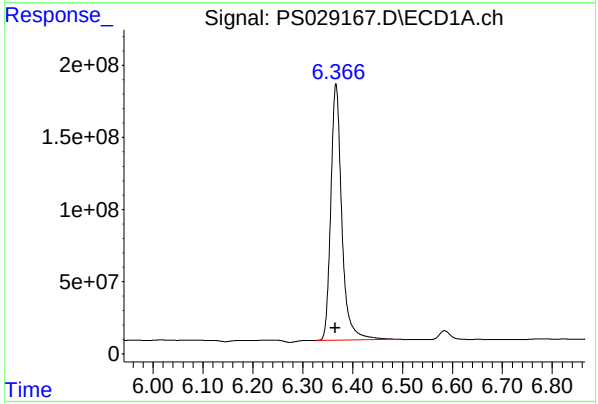
R.T.: 2.612 min
Delta R.T.: 0.003 min
Response: 2028289649
Conc: 641.25 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



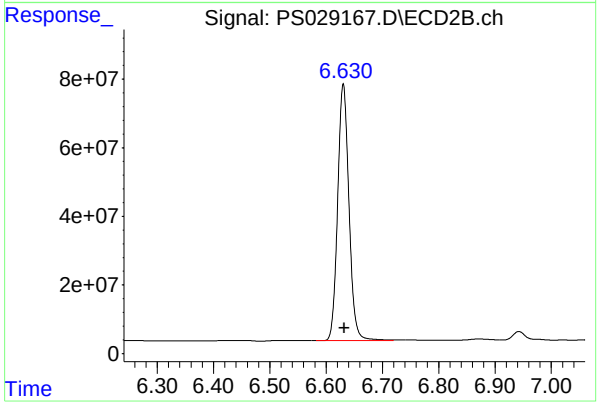
#1 Dalapon

R.T.: 2.659 min
Delta R.T.: 0.000 min
Response: 1247297297
Conc: 658.80 ng/ml



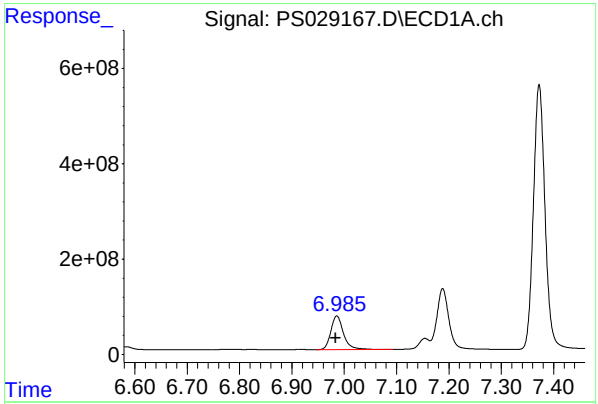
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.367 min
Delta R.T.: 0.001 min
Response: 2713245700
Conc: 684.86 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

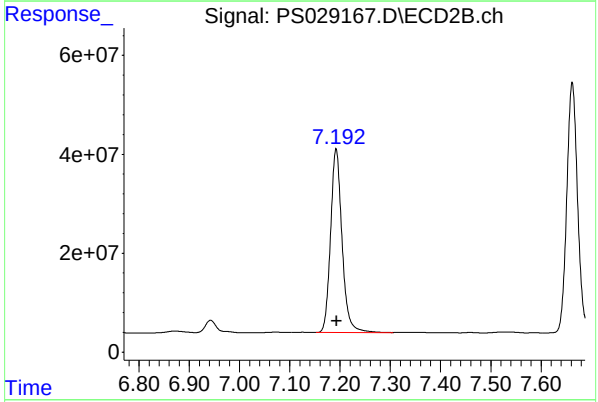
R.T.: 6.631 min
Delta R.T.: -0.001 min
Response: 1041788144
Conc: 680.97 ng/ml



#3 4-Nitrophenol

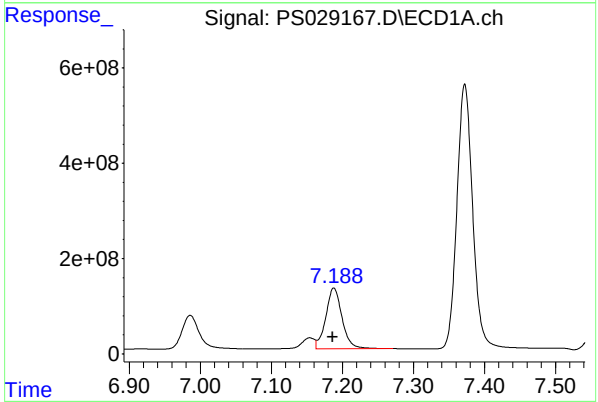
R.T.: 6.986 min
Delta R.T.: 0.002 min
Response: 1187924466
Conc: 696.70 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



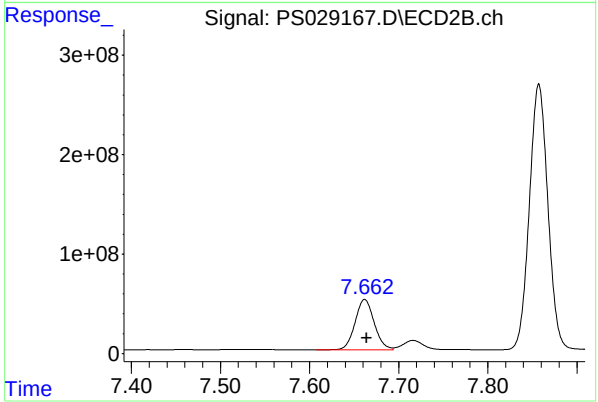
#3 4-Nitrophenol

R.T.: 7.192 min
Delta R.T.: -0.001 min
Response: 589729171
Conc: 679.96 ng/ml



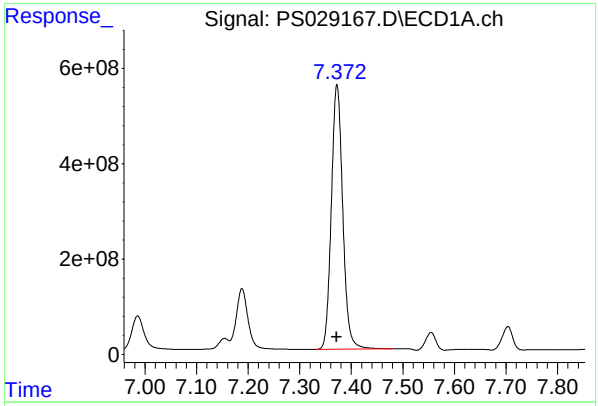
#4 2,4-DCAA

R.T.: 7.188 min
Delta R.T.: 0.002 min
Response: 2027721982
Conc: 733.66 ng/ml



#4 2,4-DCAA

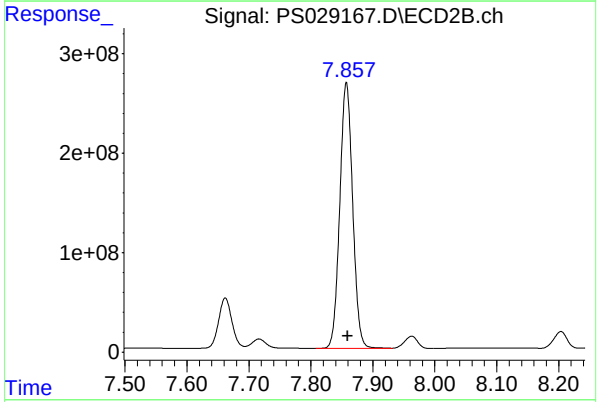
R.T.: 7.662 min
Delta R.T.: -0.002 min
Response: 754026252
Conc: 712.36 ng/ml



#5 DICAMBA

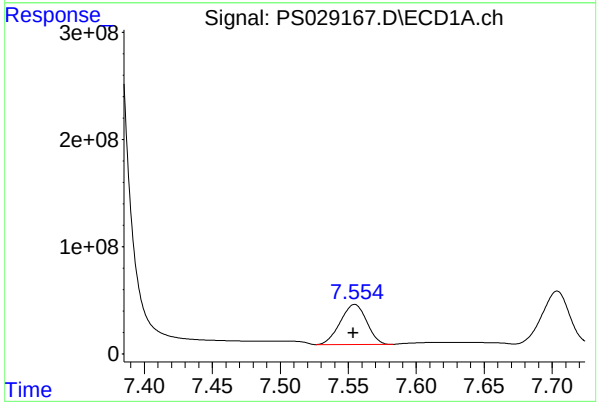
R.T.: 7.372 min
Delta R.T.: 0.001 min
Response: 8529008774
Conc: 708.27 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



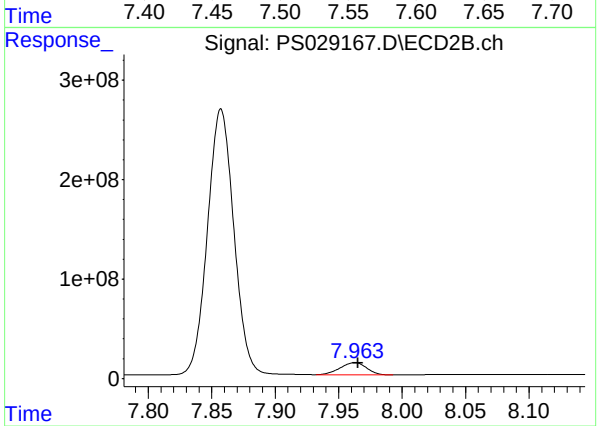
#5 DICAMBA

R.T.: 7.857 min
Delta R.T.: -0.002 min
Response: 3866088966
Conc: 699.54 ng/ml



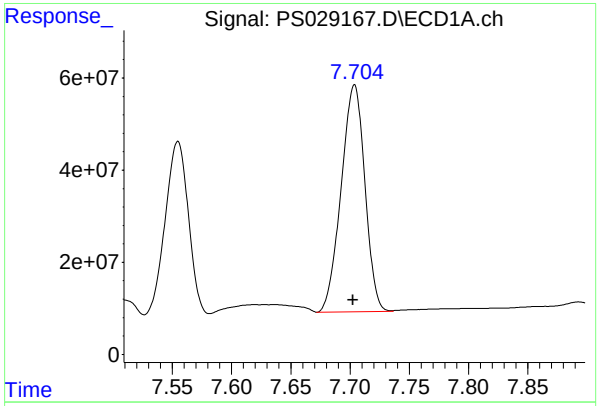
#6 MCPP

R.T.: 7.555 min
Delta R.T.: 0.000 min
Response: 506491421
Conc: 73.10 ug/ml



#6 MCPP

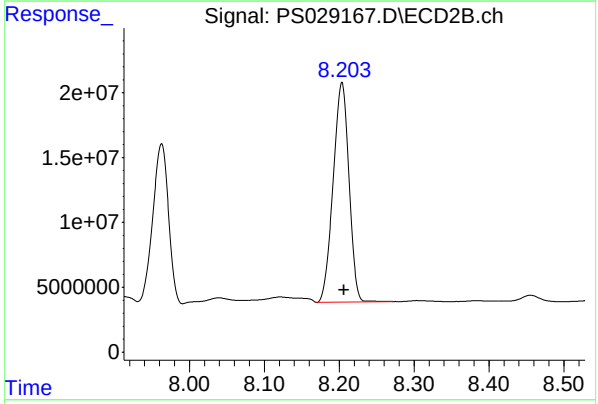
R.T.: 7.963 min
Delta R.T.: -0.003 min
Response: 179162908
Conc: 72.62 ug/ml



#7 MCPA

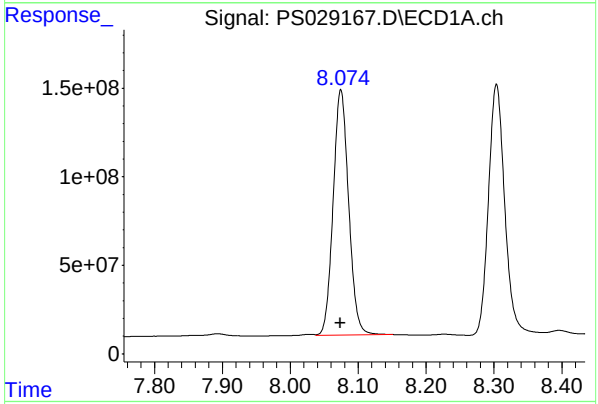
R.T.: 7.704 min
Delta R.T.: 0.001 min
Response: 686342337
Conc: 71.70 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



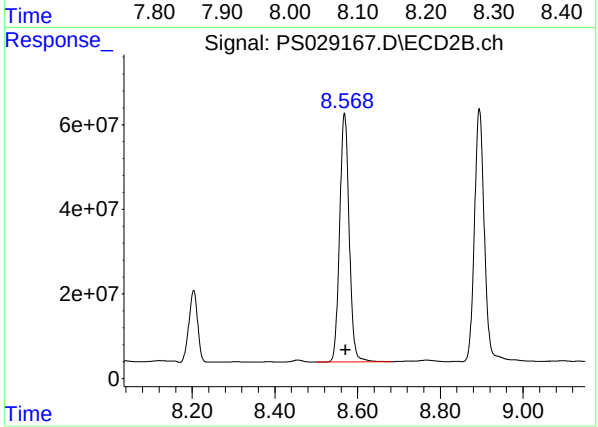
#7 MCPA

R.T.: 8.204 min
Delta R.T.: -0.003 min
Response: 248207506
Conc: 70.95 ug/ml



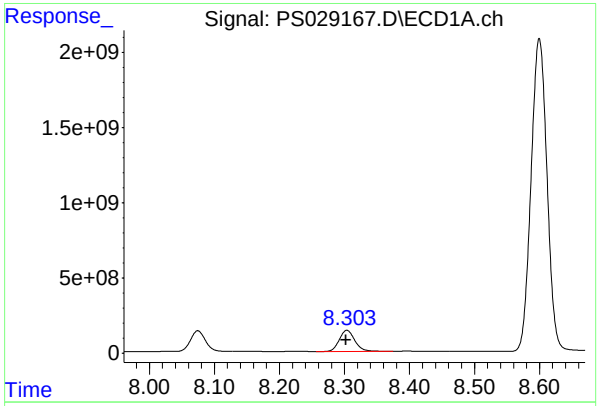
#8 DICHLORPROP

R.T.: 8.075 min
Delta R.T.: 0.000 min
Response: 2195883429
Conc: 695.11 ng/ml



#8 DICHLORPROP

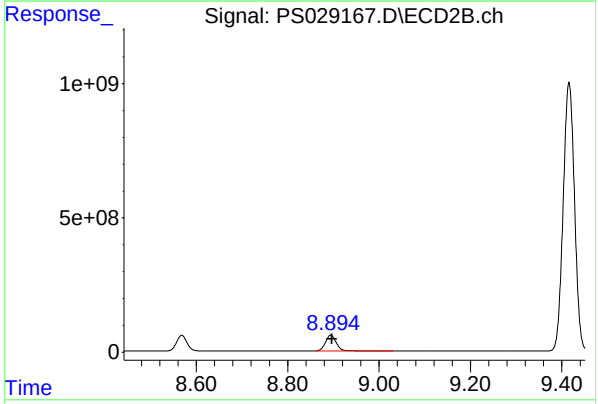
R.T.: 8.568 min
Delta R.T.: -0.003 min
Response: 944209069
Conc: 685.66 ng/ml



#9 2,4-D

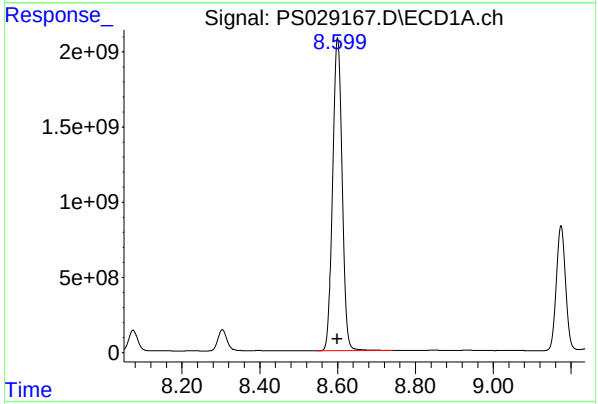
R.T.: 8.304 min
Delta R.T.: 0.001 min
Response: 2321290285
Conc: 690.02 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



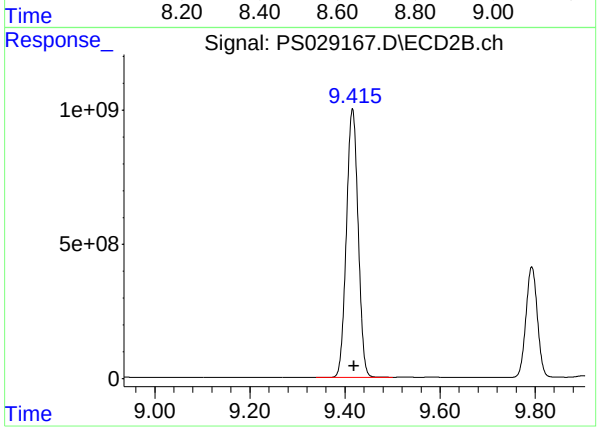
#9 2,4-D

R.T.: 8.894 min
Delta R.T.: -0.003 min
Response: 970396161
Conc: 677.35 ng/ml



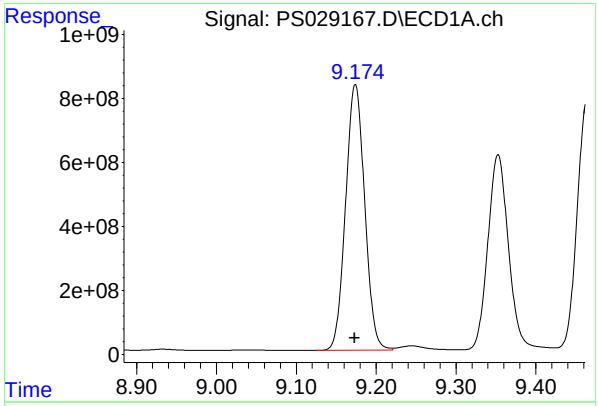
#10 Pentachlorophenol

R.T.: 8.600 min
Delta R.T.: 0.000 min
Response: 35542977190
Conc: 753.76 ng/ml



#10 Pentachlorophenol

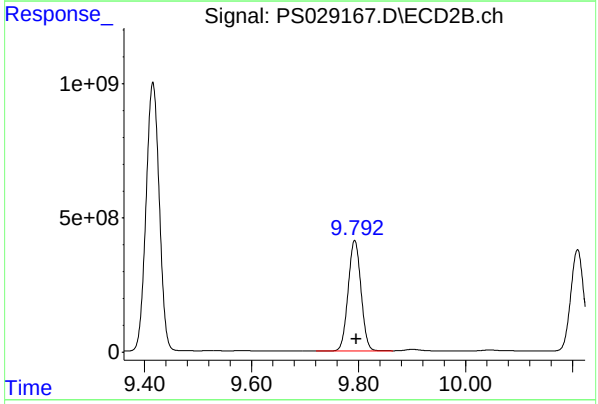
R.T.: 9.416 min
Delta R.T.: -0.003 min
Response: 17157004145
Conc: 711.33 ng/ml



#11 2,4,5-TP (SILVEX)

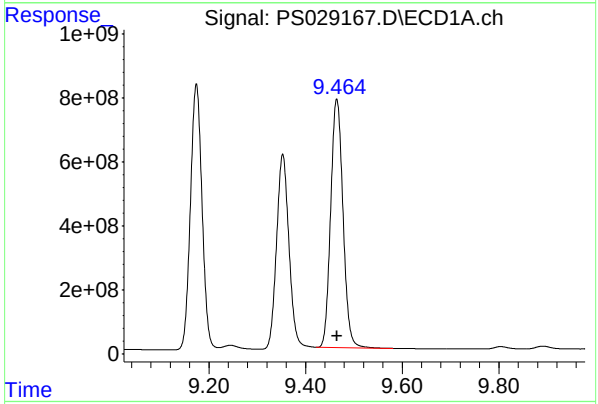
R.T.: 9.174 min
Delta R.T.: 0.000 min
Response: 13813727386
Conc: 712.40 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



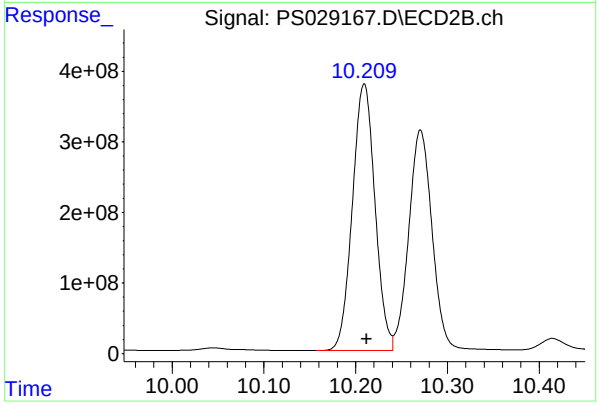
#11 2,4,5-TP (SILVEX)

R.T.: 9.793 min
Delta R.T.: -0.003 min
Response: 6898960721
Conc: 706.27 ng/ml



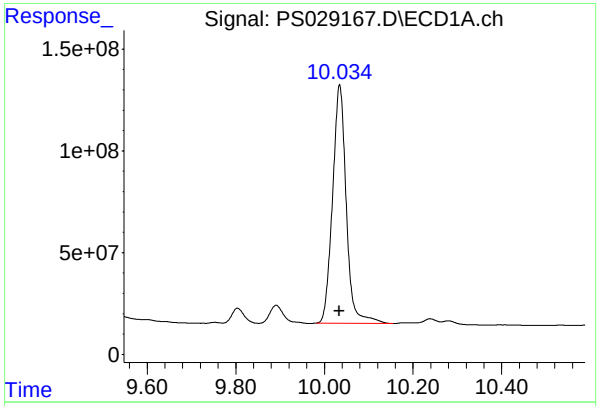
#12 2,4,5-T

R.T.: 9.465 min
Delta R.T.: 0.000 min
Response: 13729101226
Conc: 708.79 ng/ml



#12 2,4,5-T

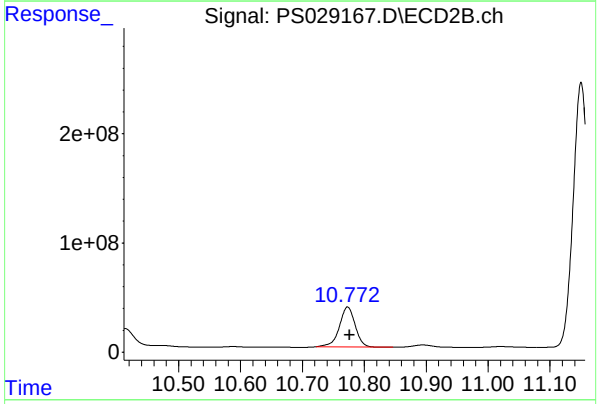
R.T.: 10.209 min
Delta R.T.: -0.003 min
Response: 6465337542
Conc: 698.03 ng/ml



#13 2,4-DB

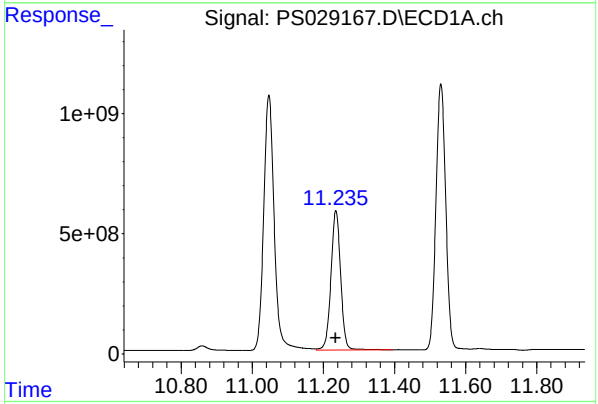
R.T.: 10.034 min
Delta R.T.: 0.000 min
Response: 2522062147
Conc: 678.65 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



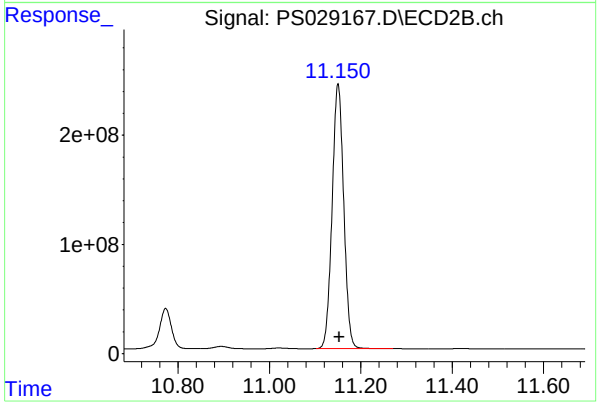
#13 2,4-DB

R.T.: 10.773 min
Delta R.T.: -0.003 min
Response: 649308697
Conc: 683.49 ng/ml



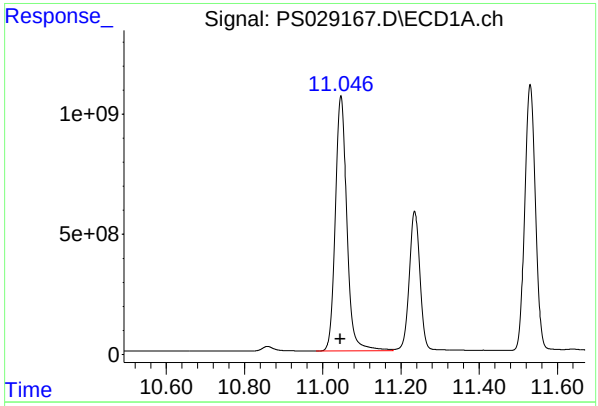
#14 DINOSEB

R.T.: 11.235 min
Delta R.T.: 0.000 min
Response: 11065635404
Conc: 763.12 ng/ml



#14 DINOSEB

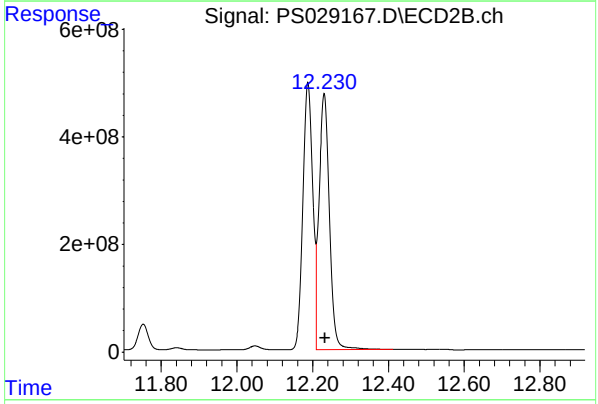
R.T.: 11.150 min
Delta R.T.: -0.003 min
Response: 4266061356
Conc: 773.58 ng/ml



#15 Picloram

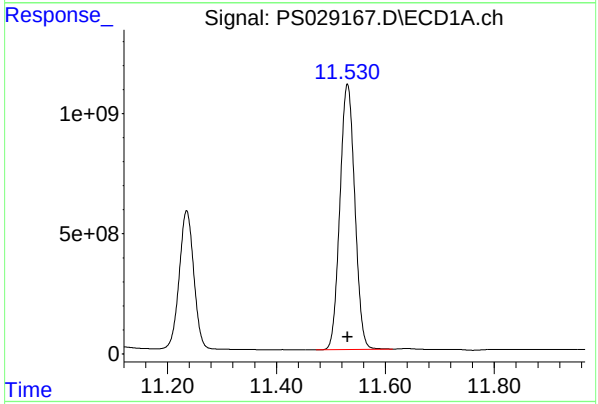
R.T.: 11.047 min
Delta R.T.: 0.001 min
Response: 21809574722
Conc: 682.56 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



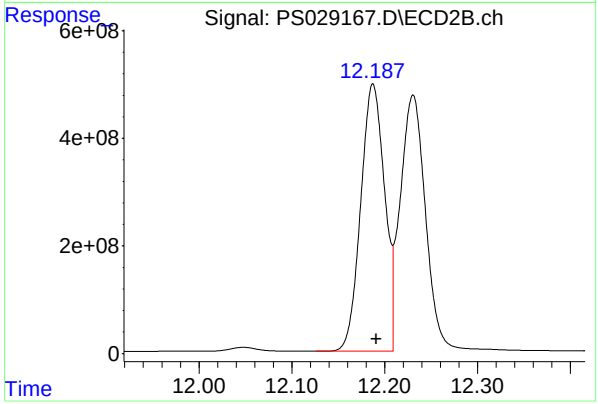
#15 Picloram

R.T.: 12.231 min
Delta R.T.: -0.002 min
Response: 9095432967
Conc: 661.54 ng/ml



#16 DCPA

R.T.: 11.530 min
Delta R.T.: 0.000 min
Response: 20967328450
Conc: 723.10 ng/ml



#16 DCPA

R.T.: 12.188 min
Delta R.T.: -0.003 min
Response: 8866221329
Conc: 718.80 ng/ml

Raw Data: **PS029179.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** Q1352 **SAS No.:** Q1352 **SDG NO.:** Q1352

Continuing Calib Date: 02/14/2025 **Initial Calibration Date(s):** 02/11/2025 02/11/2025

Continuing Calib Time: 03:00 **Initial Calibration Time(s):** 17:56 19:32

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.19	7.19	7.09	7.29	0.00
2,4-D	8.30	8.30	8.20	8.40	0.00
2,4,5-TP(Silvex)	9.17	9.17	9.07	9.27	0.00

Raw Data: **PS029179.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** Q1352 **SAS No.:** Q1352 **SDG NO.:** Q1352

Continuing Calib Date: 02/14/2025 **Initial Calibration Date(s):** 02/11/2025 02/11/2025

Continuing Calib Time: 03:00 **Initial Calibration Time(s):** 17:56 19:32

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.66	7.66	7.56	7.76	0.00
2,4-D	8.89	8.90	8.80	9.00	0.01
2,4,5-TP(Silvex)	9.79	9.80	9.70	9.90	0.01

Raw Data: **PS029179.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** Q1352 **SAS No.:** Q1352 **SDG NO.:** Q1352

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/11/2025 02/11/2025

Client Sample No.: CCAL03 **Date Analyzed:** 02/14/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS029179.D **Time Analyzed:** 03:00

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.173	9.073	9.273	706.420	712.500	-0.9
2,4-D	8.303	8.202	8.402	683.610	705.000	-3.0
2,4-DCAA	7.187	7.087	7.287	723.550	750.000	-3.5

Raw Data: **PS029179.D**

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: WEST04

Lab Code: CHEM **Case No.:** Q1352 **SAS No.:** Q1352 **SDG NO.:** Q1352

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/11/2025 02/11/2025

Client Sample No.: CCAL03 **Date Analyzed:** 02/14/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS029179.D **Time Analyzed:** 03:00

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.792	9.696	9.896	707.760	712.500	-0.7
2,4-D	8.894	8.797	8.997	677.370	705.000	-3.9
2,4-DCAA	7.662	7.564	7.764	712.640	750.000	-5.0

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021325\
Data File : PS029179.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2025 03:00
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 14 04:00:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021225.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 09:17:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	7.187	7.662	1999.8E6	754.3E6	723.550	712.639
		Target Compounds						
1)	T	Dalapon	2.610	2.656	2021.9E6	1196.4E6	639.238	631.927
2)	T	3,5-DICHL...	6.366	6.630	2684.8E6	1041.1E6	677.685	680.536
3)	T	4-Nitroph...	6.985	7.192	1179.6E6	590.5E6	691.795	680.895
5)	T	DICAMBA	7.372	7.857	8452.4E6	3870.8E6	701.914	700.387
6)	T	MCPP	7.554	7.962	501.4E6	179.5E6	72.364	72.744
7)	T	MCPA	7.702	8.203	682.3E6	248.1E6	71.279	70.912
8)	T	DICHLORPROP	8.074	8.567	2174.4E6	942.7E6	688.320	684.578
9)	T	2,4-D	8.303	8.894	2299.7E6	970.4E6	683.609	677.373
10)	T	Pentachlo...	8.598	9.415	35258.8E6	17167.1E6	747.738	711.750
11)	T	2,4,5-TP ...	9.173	9.792	13697.8E6	6913.5E6	706.423	707.758
12)	T	2,4,5-T	9.464	10.207	13633.5E6	6493.2E6	703.860	701.034
13)	T	2,4-DB	10.033	10.772	2486.2E6	648.0E6	668.990	682.143
14)	T	DINOSEB	11.234	11.149	11142.6E6	4348.7E6	768.426	788.575
15)	T	Picloram	11.045	12.229	21519.3E6	9024.2E6	673.480	656.358
16)	T	DCPA	11.530	12.185	20808.1E6	8910.8E6	717.613	722.406

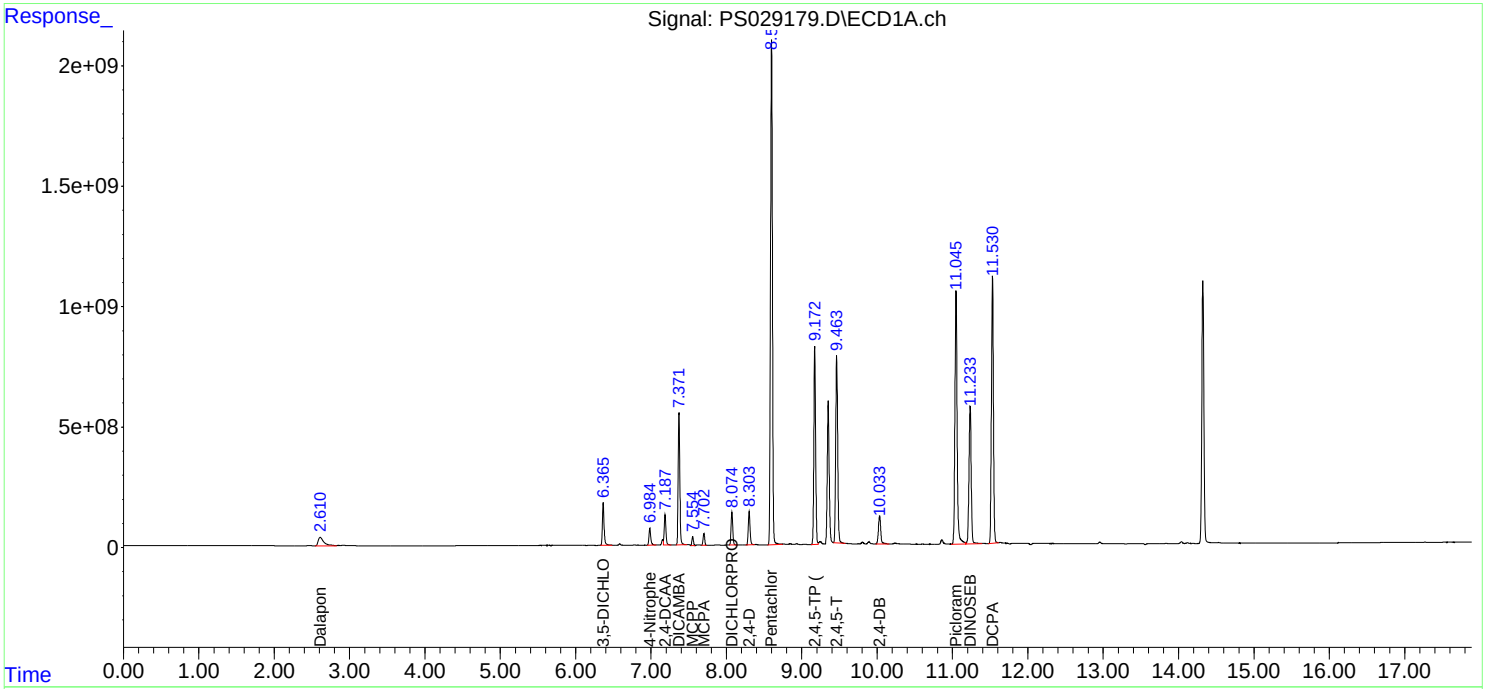
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

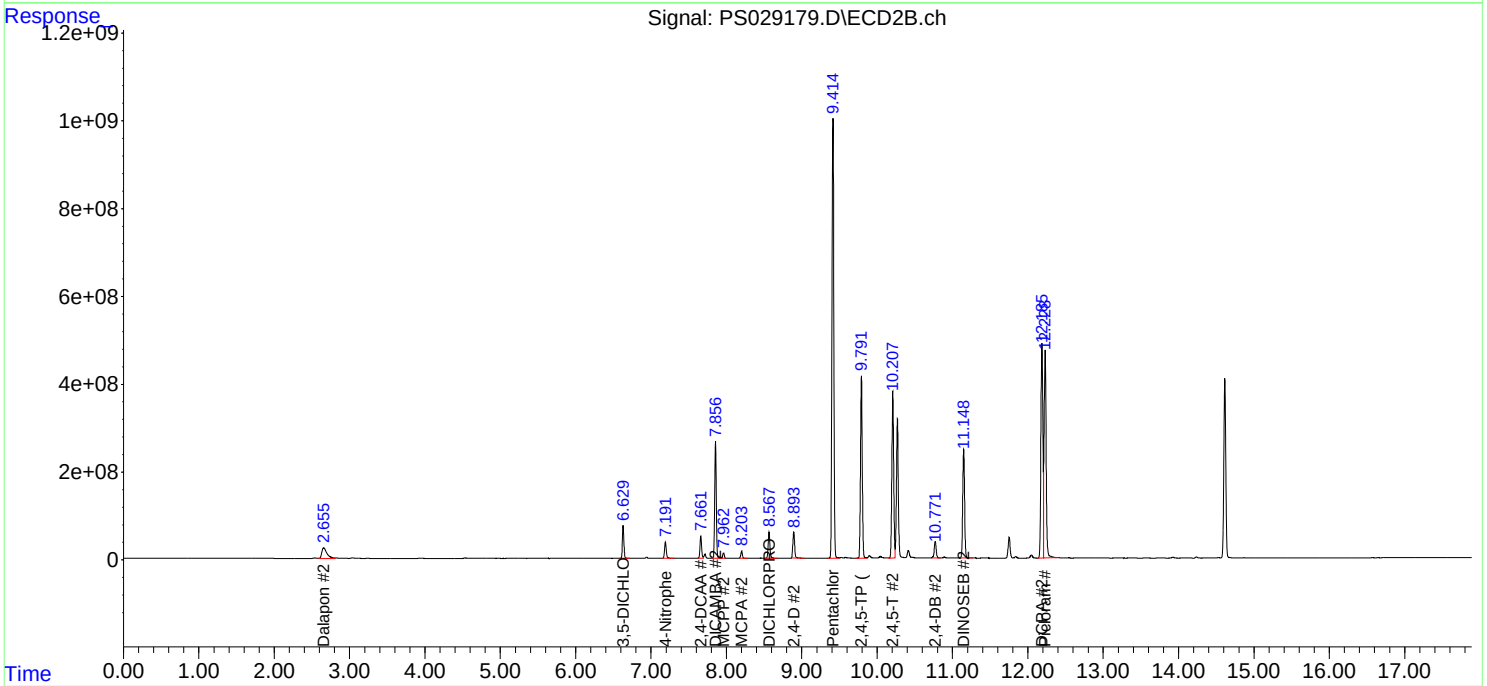
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021325\
Data File : PS029179.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2025 03:00
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

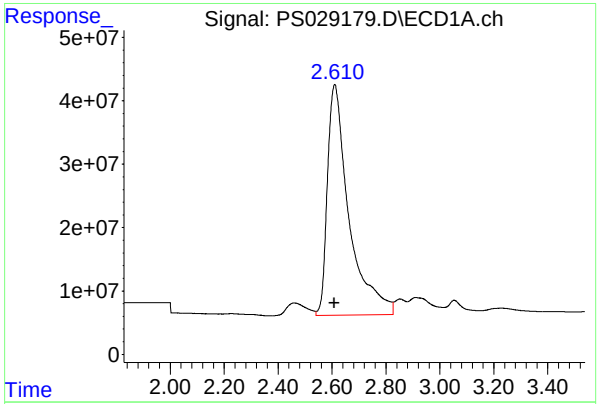
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 14 04:00:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021225.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 09:17:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



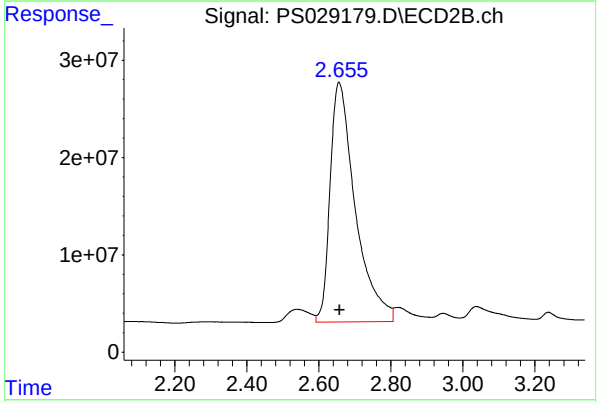




#1 Dalapon

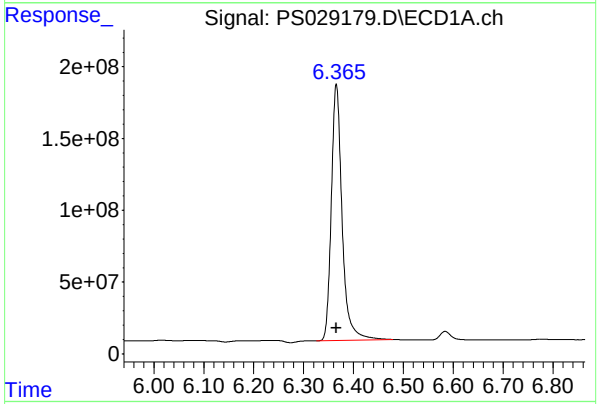
R.T.: 2.610 min
Delta R.T.: 0.001 min
Response: 2021941768
Conc: 639.24 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



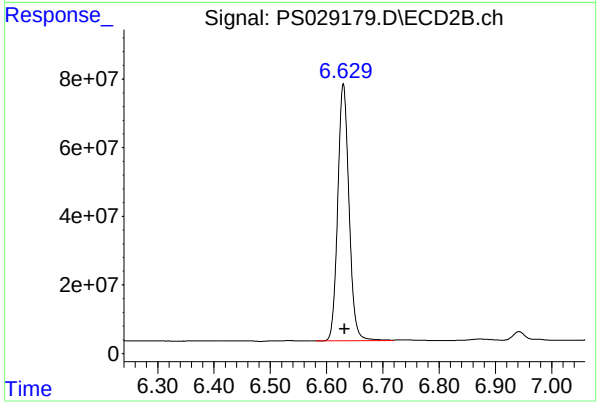
#1 Dalapon

R.T.: 2.656 min
Delta R.T.: -0.002 min
Response: 1196427514
Conc: 631.93 ng/ml



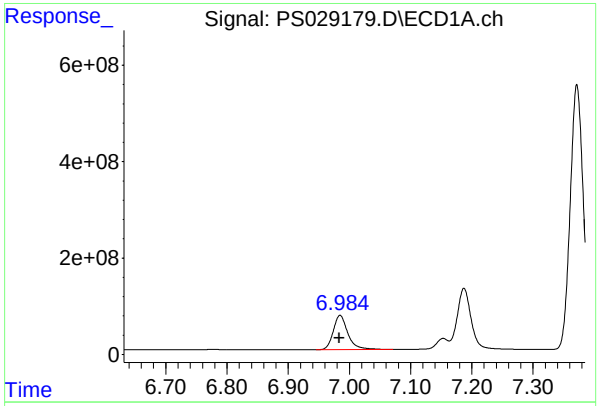
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.366 min
Delta R.T.: 0.000 min
Response: 2684834495
Conc: 677.69 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

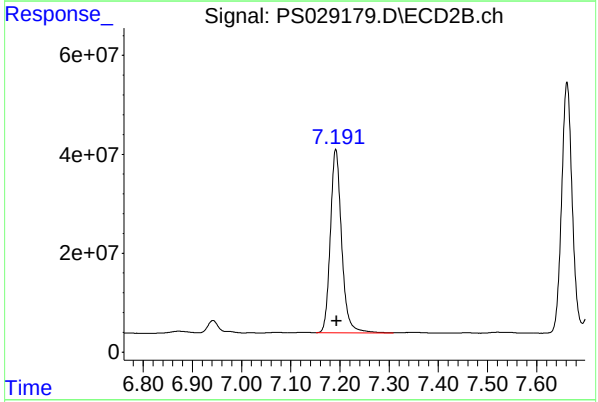
R.T.: 6.630 min
Delta R.T.: -0.002 min
Response: 1041129154
Conc: 680.54 ng/ml



#3 4-Nitrophenol

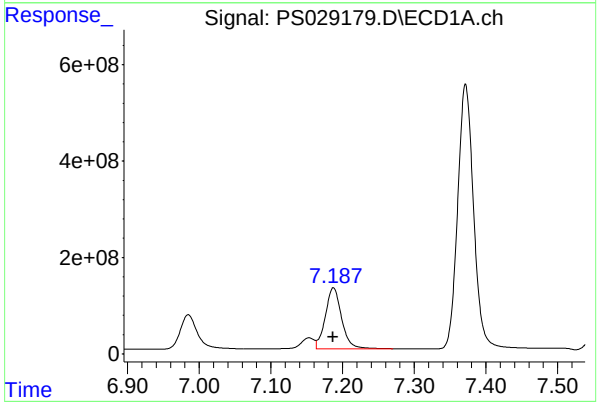
R.T.: 6.985 min
Delta R.T.: 0.000 min
Response: 1179560454
Conc: 691.80 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



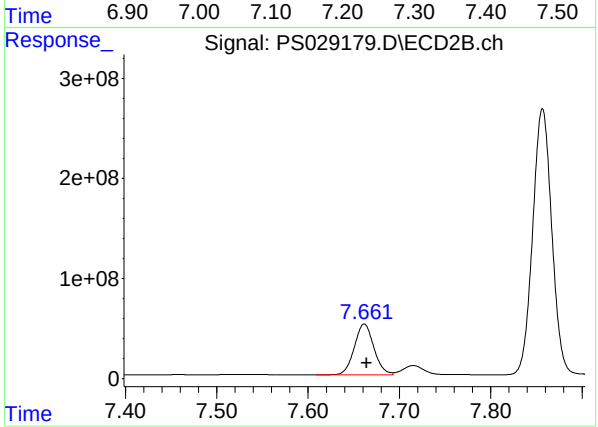
#3 4-Nitrophenol

R.T.: 7.192 min
Delta R.T.: -0.002 min
Response: 590539586
Conc: 680.90 ng/ml



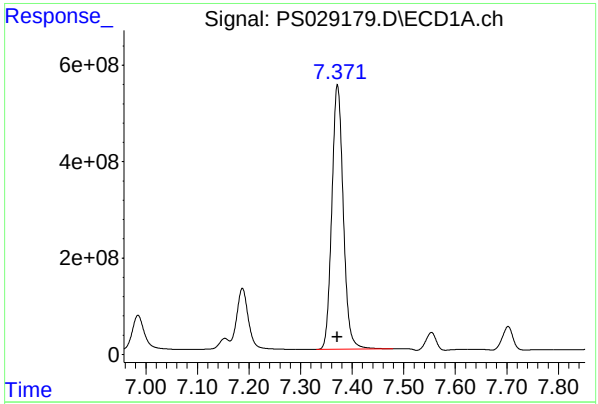
#4 2,4-DCAA

R.T.: 7.187 min
Delta R.T.: 0.000 min
Response: 1999789573
Conc: 723.55 ng/ml



#4 2,4-DCAA

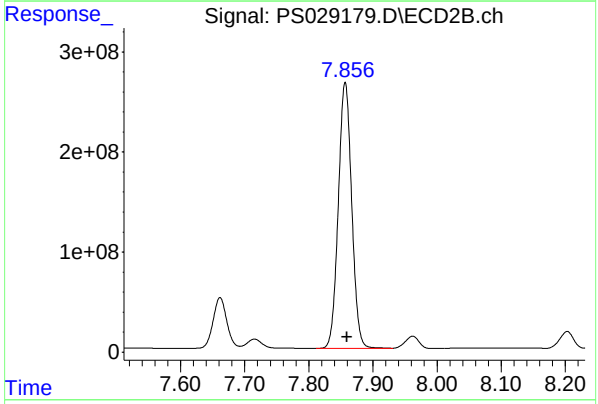
R.T.: 7.662 min
Delta R.T.: -0.003 min
Response: 754324593
Conc: 712.64 ng/ml



#5 DICAMBA

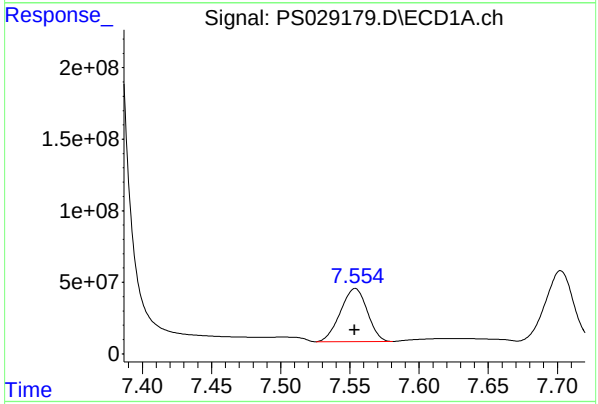
R.T.: 7.372 min
Delta R.T.: 0.000 min
Response: 8452413064
Conc: 701.91 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



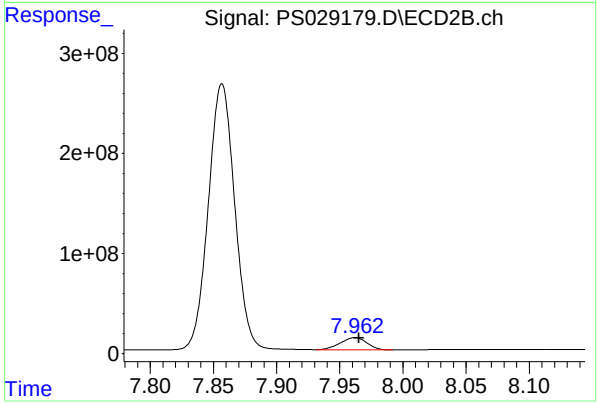
#5 DICAMBA

R.T.: 7.857 min
Delta R.T.: -0.003 min
Response: 3870755897
Conc: 700.39 ng/ml



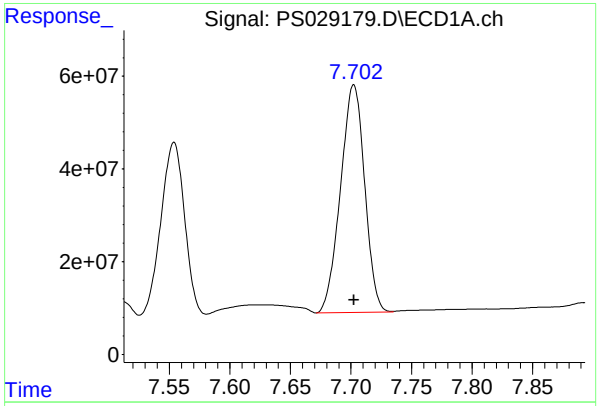
#6 MCPP

R.T.: 7.554 min
Delta R.T.: 0.000 min
Response: 501369704
Conc: 72.36 ug/ml



#6 MCPP

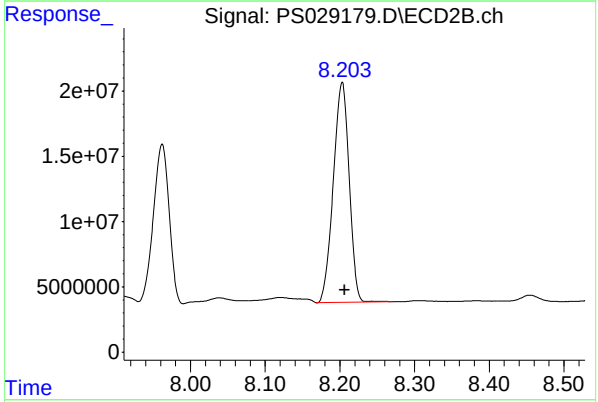
R.T.: 7.962 min
Delta R.T.: -0.003 min
Response: 179475613
Conc: 72.74 ug/ml



#7 MCPA

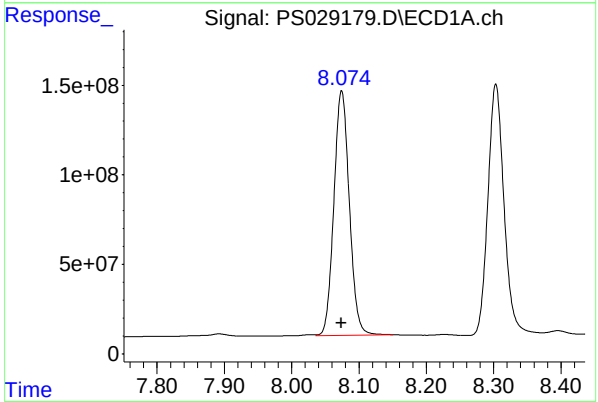
R.T.: 7.702 min
Delta R.T.: 0.000 min
Response: 682292966
Conc: 71.28 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



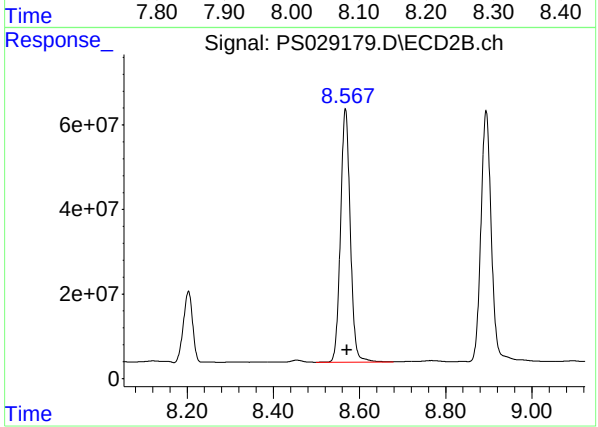
#7 MCPA

R.T.: 8.203 min
Delta R.T.: -0.003 min
Response: 248077616
Conc: 70.91 ug/ml



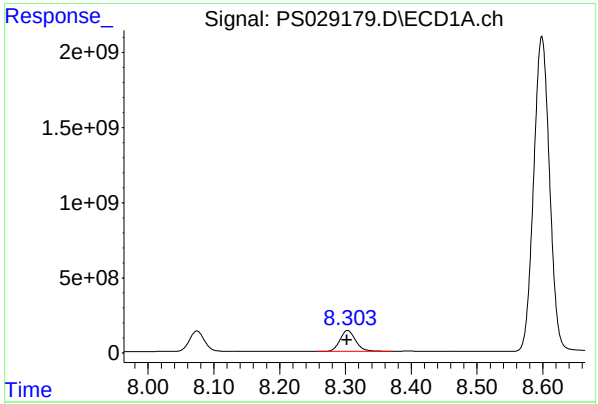
#8 DICHLORPROP

R.T.: 8.074 min
Delta R.T.: 0.000 min
Response: 2174443833
Conc: 688.32 ng/ml



#8 DICHLORPROP

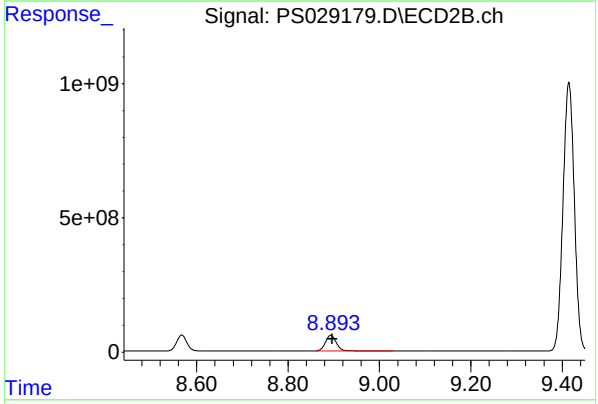
R.T.: 8.567 min
Delta R.T.: -0.004 min
Response: 942725447
Conc: 684.58 ng/ml



#9 2,4-D

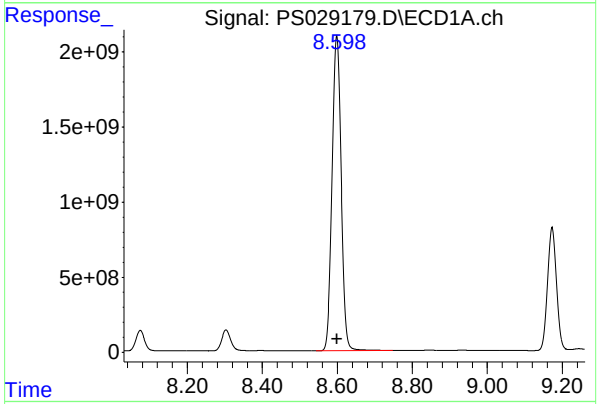
R.T.: 8.303 min
Delta R.T.: 0.000 min
Response: 2299722285
Conc: 683.61 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



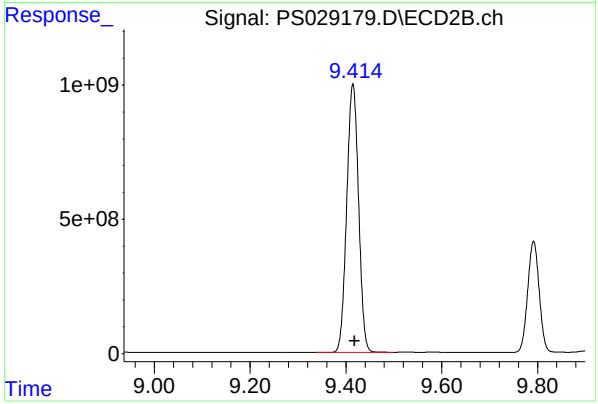
#9 2,4-D

R.T.: 8.894 min
Delta R.T.: -0.003 min
Response: 970423611
Conc: 677.37 ng/ml



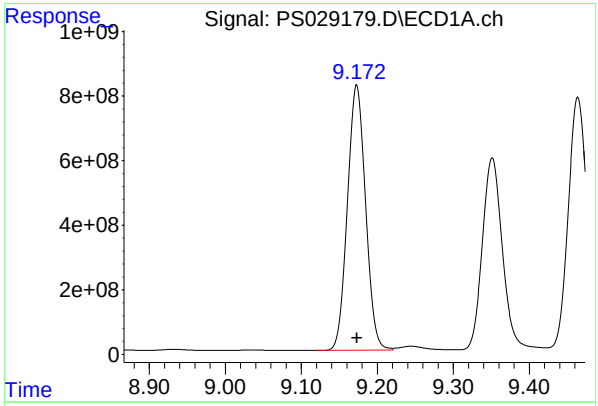
#10 Pentachlorophenol

R.T.: 8.598 min
Delta R.T.: 0.000 min
Response: 35258808477
Conc: 747.74 ng/ml



#10 Pentachlorophenol

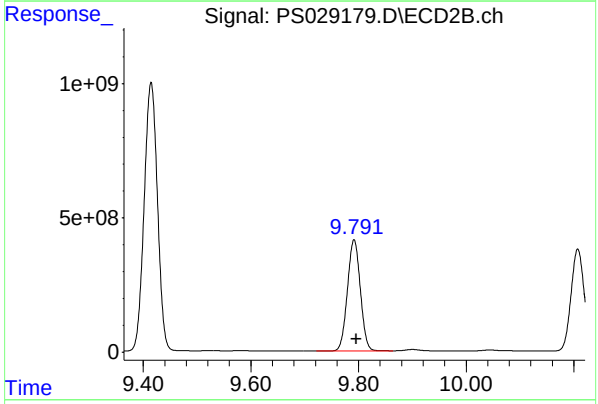
R.T.: 9.415 min
Delta R.T.: -0.004 min
Response: 17167137425
Conc: 711.75 ng/ml



#11 2,4,5-TP (SILVEX)

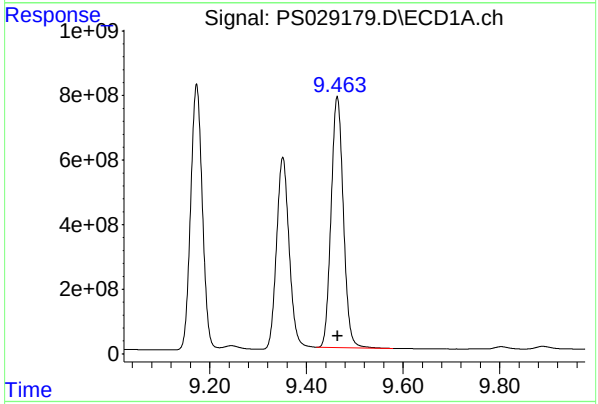
R.T.: 9.173 min
Delta R.T.: 0.000 min
Response: 13697786957
Conc: 706.42 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



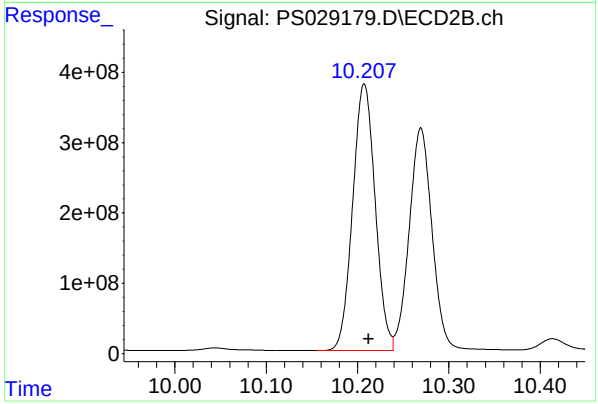
#11 2,4,5-TP (SILVEX)

R.T.: 9.792 min
Delta R.T.: -0.004 min
Response: 6913529864
Conc: 707.76 ng/ml



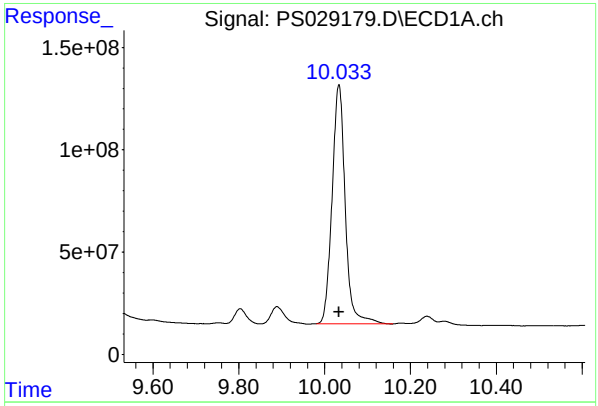
#12 2,4,5-T

R.T.: 9.464 min
Delta R.T.: 0.000 min
Response: 13633531749
Conc: 703.86 ng/ml



#12 2,4,5-T

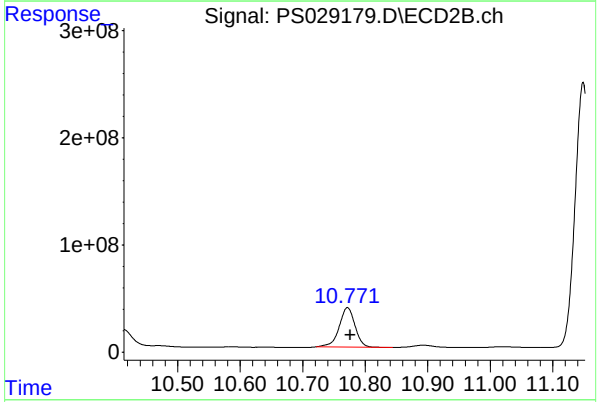
R.T.: 10.207 min
Delta R.T.: -0.005 min
Response: 6493178900
Conc: 701.03 ng/ml



#13 2,4-DB

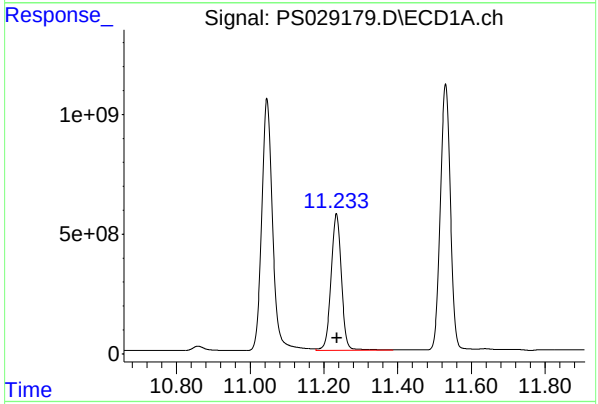
R.T.: 10.033 min
Delta R.T.: 0.000 min
Response: 2486162075
Conc: 668.99 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



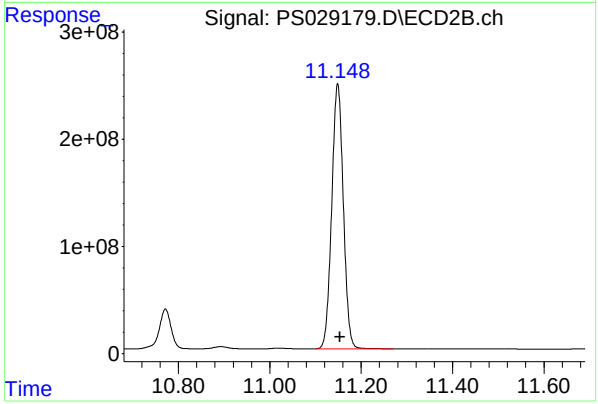
#13 2,4-DB

R.T.: 10.772 min
Delta R.T.: -0.004 min
Response: 648028621
Conc: 682.14 ng/ml



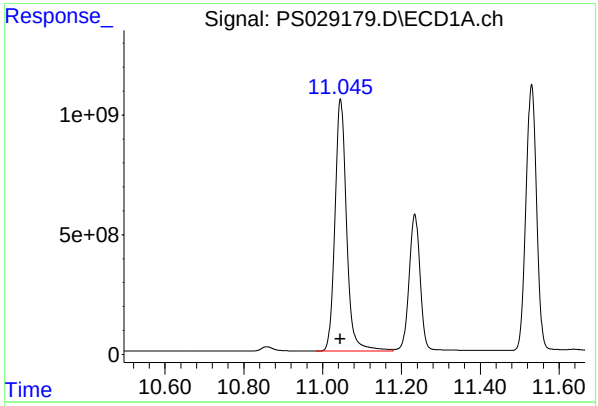
#14 DINOSEB

R.T.: 11.234 min
Delta R.T.: 0.000 min
Response: 11142647115
Conc: 768.43 ng/ml



#14 DINOSEB

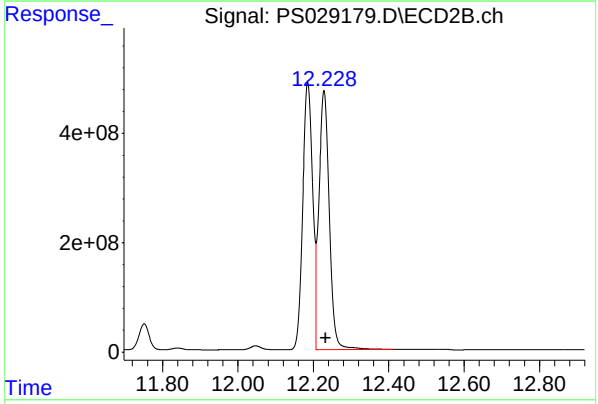
R.T.: 11.149 min
Delta R.T.: -0.005 min
Response: 4348746677
Conc: 788.57 ng/ml



#15 Picloram

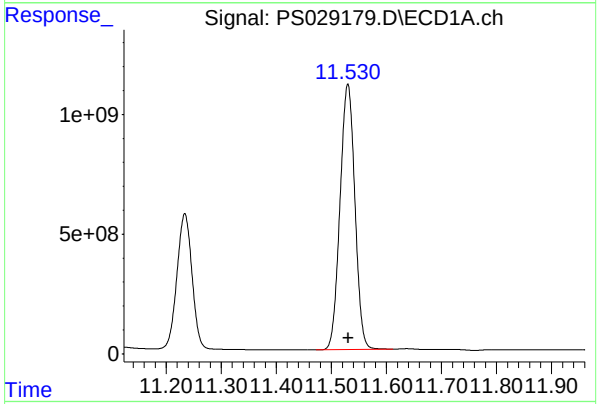
R.T.: 11.045 min
Delta R.T.: 0.000 min
Response: 21519329993
Conc: 673.48 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



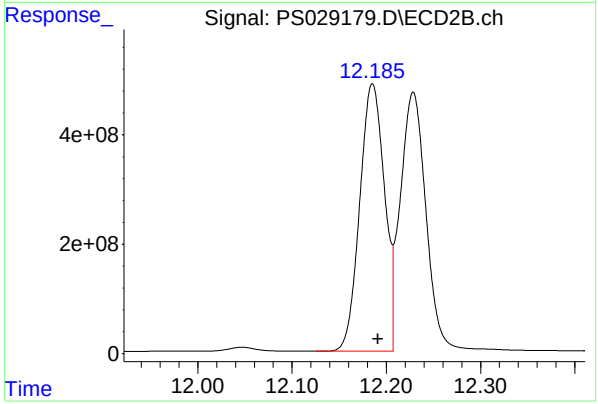
#15 Picloram

R.T.: 12.229 min
Delta R.T.: -0.004 min
Response: 9024176076
Conc: 656.36 ng/ml



#16 DCPA

R.T.: 11.530 min
Delta R.T.: 0.000 min
Response: 20808118129
Conc: 717.61 ng/ml



#16 DCPA

R.T.: 12.185 min
Delta R.T.: -0.006 min
Response: 8910759552
Conc: 722.41 ng/ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Analytical Sequence

Client: Weston Solutions **SDG No.:** Q1352

Project: Ft Meade Tipton Airfield Parcel RI - PO 011 **Instrument ID:** ECD_S

GC Column: RTX-CLP **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 02/11/2025 02/11/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
I.BLK	I.BLK	02/11/2025	17:32	PS029117.D	7.19	0.00
HSTDICC200	HSTDICC200	02/11/2025	17:56	PS029118.D	7.19	0.00
HSTDICC500	HSTDICC500	02/11/2025	18:20	PS029119.D	7.19	0.00
HSTDICC750	HSTDICC750	02/11/2025	18:44	PS029120.D	7.19	0.00
HSTDICC1000	HSTDICC1000	02/11/2025	19:08	PS029121.D	7.19	0.00
HSTDICC1500	HSTDICC1500	02/11/2025	19:32	PS029122.D	7.19	0.00
I.BLK	I.BLK	02/13/2025	18:12	PS029159.D	7.19	0.00
HSTDCCC750	HSTDCCC750	02/13/2025	18:36	PS029160.D	7.19	0.00
PB166713BL	PB166713BL	02/13/2025	19:24	PS029161.D	7.19	0.00
PB166713BS	PB166713BS	02/13/2025	19:48	PS029162.D	7.19	0.00
PB166700TB	PB166700TB	02/13/2025	20:12	PS029163.D	7.19	0.00
TAP-IDW-SOIL-021025	Q1352-02	02/13/2025	21:00	PS029165.D	7.19	0.00
I.BLK	I.BLK	02/13/2025	21:24	PS029166.D	7.19	0.00
HSTDCCC750	HSTDCCC750	02/13/2025	21:48	PS029167.D	7.19	0.00
CARBON-WATERMS	Q1356-04MS	02/13/2025	23:48	PS029171.D	7.19	0.00
CARBON-WATERMSD	Q1356-04MSD	02/14/2025	00:12	PS029172.D	7.19	0.00
I.BLK	I.BLK	02/14/2025	02:36	PS029178.D	7.19	0.00
HSTDCCC750	HSTDCCC750	02/14/2025	03:00	PS029179.D	7.19	0.00

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Fax : 908 789 8922

Analytical Sequence

Client: Weston Solutions **SDG No.:** Q1352

Project: Ft Meade Tipton Airfield Parcel RI - PO 011 **Instrument ID:** ECD_S

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 02/11/2025 02/11/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
I.BLK	I.BLK	02/11/2025	17:32	PS029117.D	7.66	0.00
HSTDICC200	HSTDICC200	02/11/2025	17:56	PS029118.D	7.67	0.00
HSTDICC500	HSTDICC500	02/11/2025	18:20	PS029119.D	7.67	0.00
HSTDICC750	HSTDICC750	02/11/2025	18:44	PS029120.D	7.66	0.00
HSTDICC1000	HSTDICC1000	02/11/2025	19:08	PS029121.D	7.66	0.00
HSTDICC1500	HSTDICC1500	02/11/2025	19:32	PS029122.D	7.66	0.00
I.BLK	I.BLK	02/13/2025	18:12	PS029159.D	7.66	0.00
HSTDCCC750	HSTDCCC750	02/13/2025	18:36	PS029160.D	7.66	0.00
PB166713BL	PB166713BL	02/13/2025	19:24	PS029161.D	7.66	0.00
PB166713BS	PB166713BS	02/13/2025	19:48	PS029162.D	7.66	0.00
PB166700TB	PB166700TB	02/13/2025	20:12	PS029163.D	7.66	0.00
TAP-IDW-SOIL-021025	Q1352-02	02/13/2025	21:00	PS029165.D	7.66	0.00
I.BLK	I.BLK	02/13/2025	21:24	PS029166.D	7.66	0.00
HSTDCCC750	HSTDCCC750	02/13/2025	21:48	PS029167.D	7.66	0.00
CARBON-WATERMS	Q1356-04MS	02/13/2025	23:48	PS029171.D	7.66	0.00
CARBON-WATERMSD	Q1356-04MSD	02/14/2025	00:12	PS029172.D	7.66	0.00
I.BLK	I.BLK	02/14/2025	02:36	PS029178.D	7.66	0.00
HSTDCCC750	HSTDCCC750	02/14/2025	03:00	PS029179.D	7.66	0.00

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

CARBON-WATERMS

Contract: WEST04

Lab Code: CHEM **Case No.:** Q1352 **SAS No.:** Q1352 **SDG NO.:** Q1352

Lab Sample ID: Q1356-04MS **Date(s) Analyzed:** 02/13/2025 02/13/2025

Instrument ID (1): ECD_S **Instrument ID (2):** ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4-D	1	8.30	8.25	8.35	48.2	2.5
	2	8.90	8.85	8.95	47.0	
2,4,5-TP(Silvex)	1	9.17	9.12	9.22	48.2	2.7
	2	9.79	9.74	9.84	46.9	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

CARBON-WATERMSD

Contract: WEST04

Lab Code: CHEM **Case No.:** Q1352 **SAS No.:** Q1352 **SDG NO.:** Q1352

Lab Sample ID: Q1356-04MSD **Date(s) Analyzed:** 02/14/2025 02/14/2025

Instrument ID (1): ECD_S **Instrument ID (2):** ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4-D	1	8.30	8.25	8.35	48.1	2.3
	2	8.89	8.84	8.94	47.0	
2,4,5-TP(Silvex)	1	9.17	9.12	9.22	48.2	2.7
	2	9.79	9.74	9.84	46.9	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB166713BS

Contract: WEST04

Lab Code: CHEM **Case No.:** Q1352 **SAS No.:** Q1352 **SDG NO.:** Q1352

Lab Sample ID: PB166713BS **Date(s) Analyzed:** 02/13/2025 02/13/2025

Instrument ID (1): ECD_S **Instrument ID (2):** ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4-D	1	8.31	8.26	8.36	4.90	6.3
	2	8.90	8.85	8.95	4.60	
2,4,5-TP(Silvex)	1	9.18	9.13	9.23	5.00	6.2
	2	9.79	9.74	9.84	4.70	

QC SAMPLE DATA

Raw Data: **PS029161.D**

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Fax : 908 789 8922

Report of Analysis

Client:	Weston Solutions	Date Collected:	
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	
Client Sample ID:	PB166713BL	SDG No.:	Q1352
Lab Sample ID:	PB166713BL	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029161.D	1	02/13/25 10:15	02/13/25 19:24	PB166713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	1.50	U	0.49	1.50	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	1.50	U	0.45	1.50	2.00	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	458		32 - 138		92%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Sample Results: **PS029161.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021325\
Data File : PS029161.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Feb 2025 19:24
Operator : AR\AJ
Sample : PB166713BL
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB166713BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 14 01:22:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021225.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 09:17:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.189	7.663	1266.2E6	454.1E6	458.116	428.962
	Target Compounds						

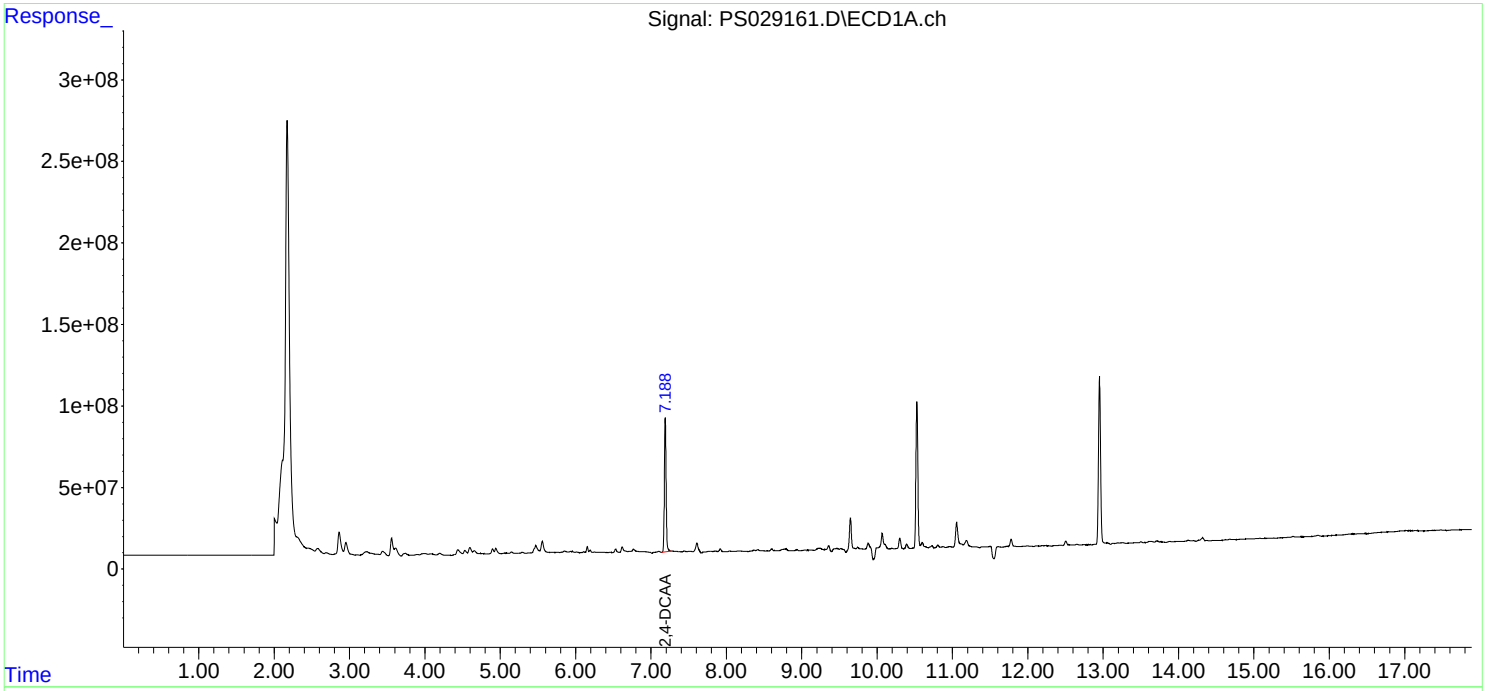
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

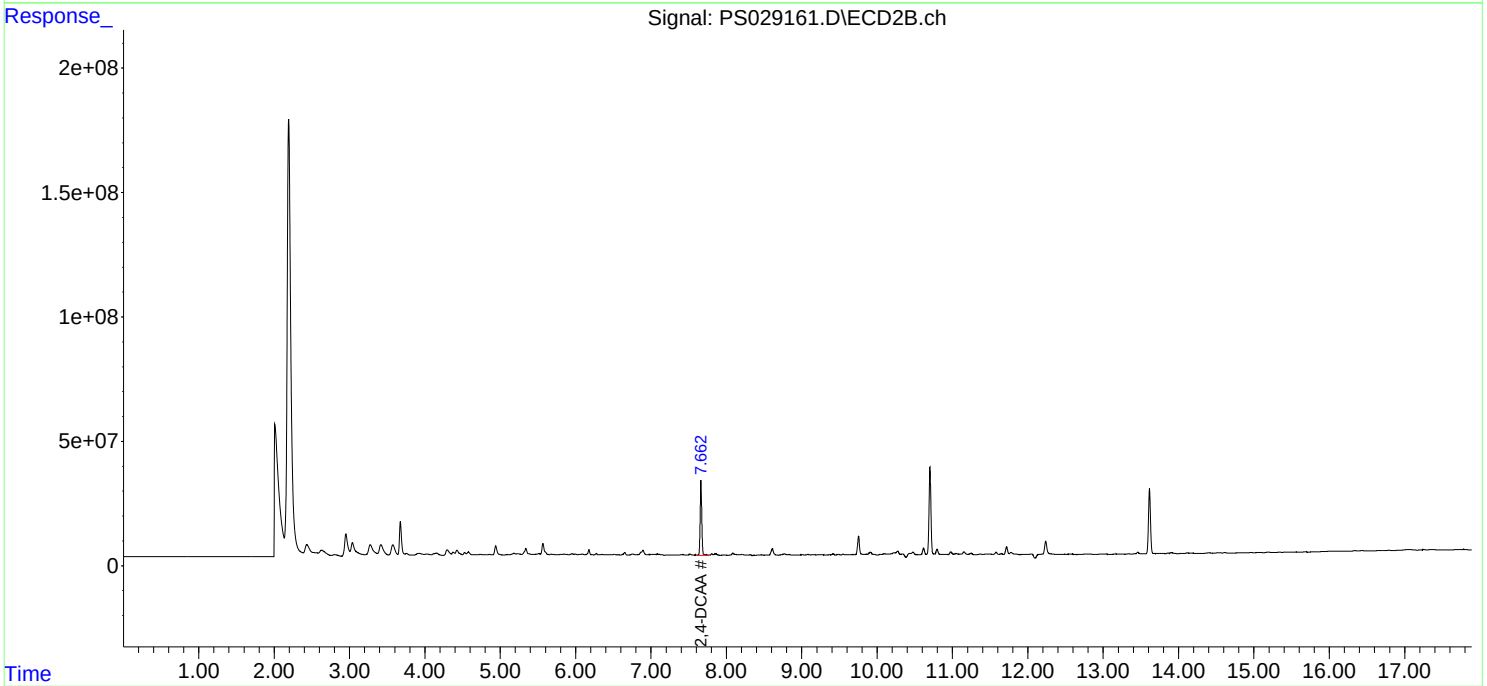
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021325\
Data File : PS029161.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Feb 2025 19:24
Operator : AR\AJ
Sample : PB166713BL
Misc :
ALS Vial : 9 Sample Multiplier: 1

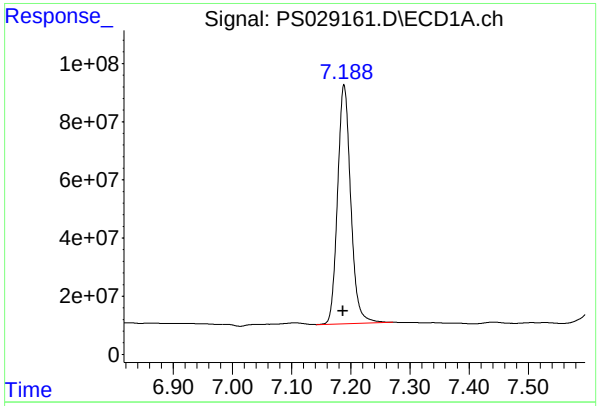
Instrument :
ECD_S
ClientSampleId :
PB166713BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 14 01:22:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021225.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 09:17:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



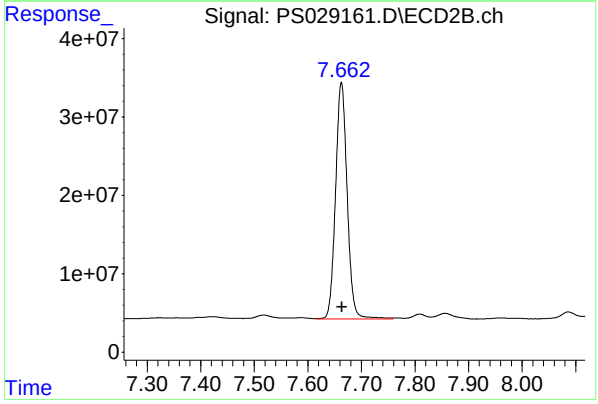




#4 2,4-DCAA

R.T.: 7.189 min
Delta R.T.: 0.002 min
Response: 1266166722
Conc: 458.12 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB166713BL



#4 2,4-DCAA

R.T.: 7.663 min
Delta R.T.: -0.001 min
Response: 454054619
Conc: 428.96 ng/ml

Raw Data: **PS029117.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Weston Solutions	Date Collected:	02/11/25
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	02/11/25
Client Sample ID:	PIBLK-PS029117.D	SDG No.:	Q1352
Lab Sample ID:	I.BLK-PS029117.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029117.D	1		02/11/25	ps021125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	1.50	U	0.49	1.50	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	1.50	U	0.45	1.50	2.00	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	487		32 - 138		97%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021125\
Data File : PS029117.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Feb 2025 17:32
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 12 03:22:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021125.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 01:14:16 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.186	7.664	1319.2E6	515.2E6	477.292	486.690
	Target Compounds						

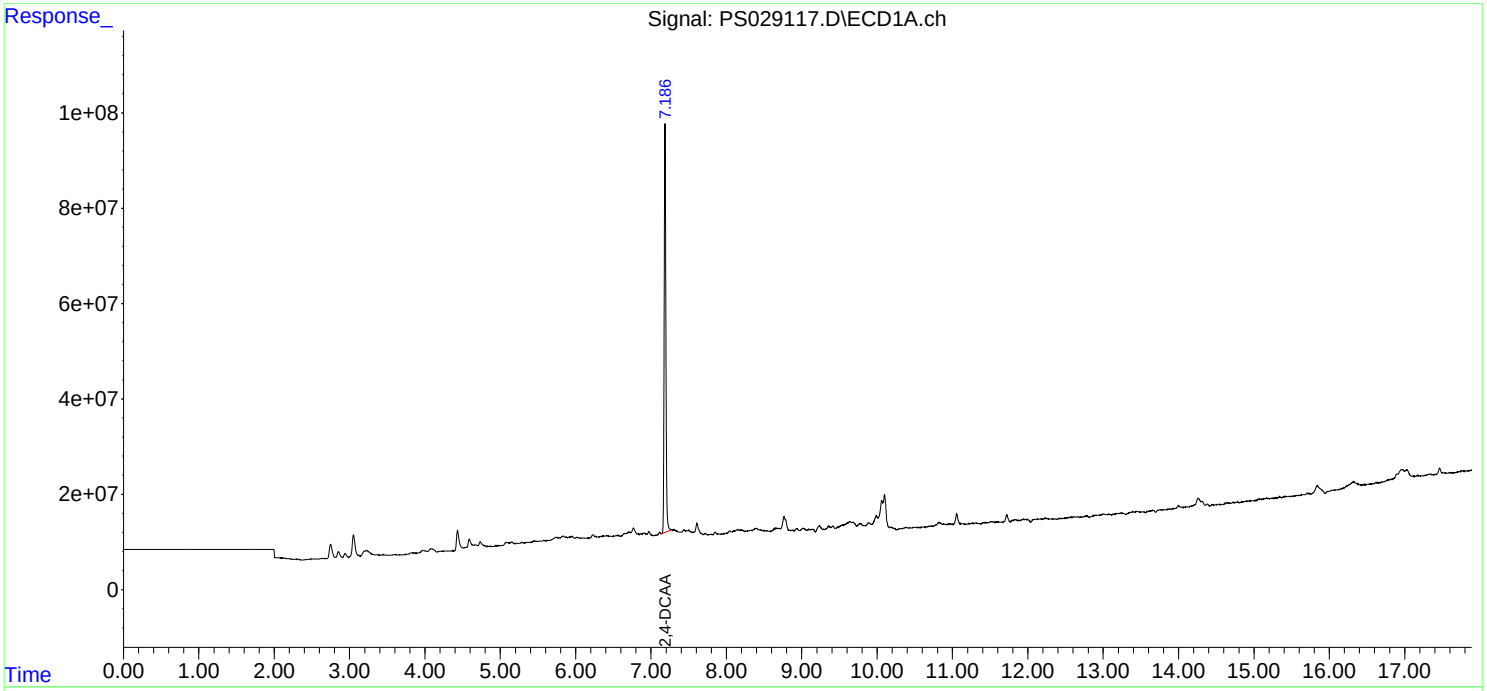
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

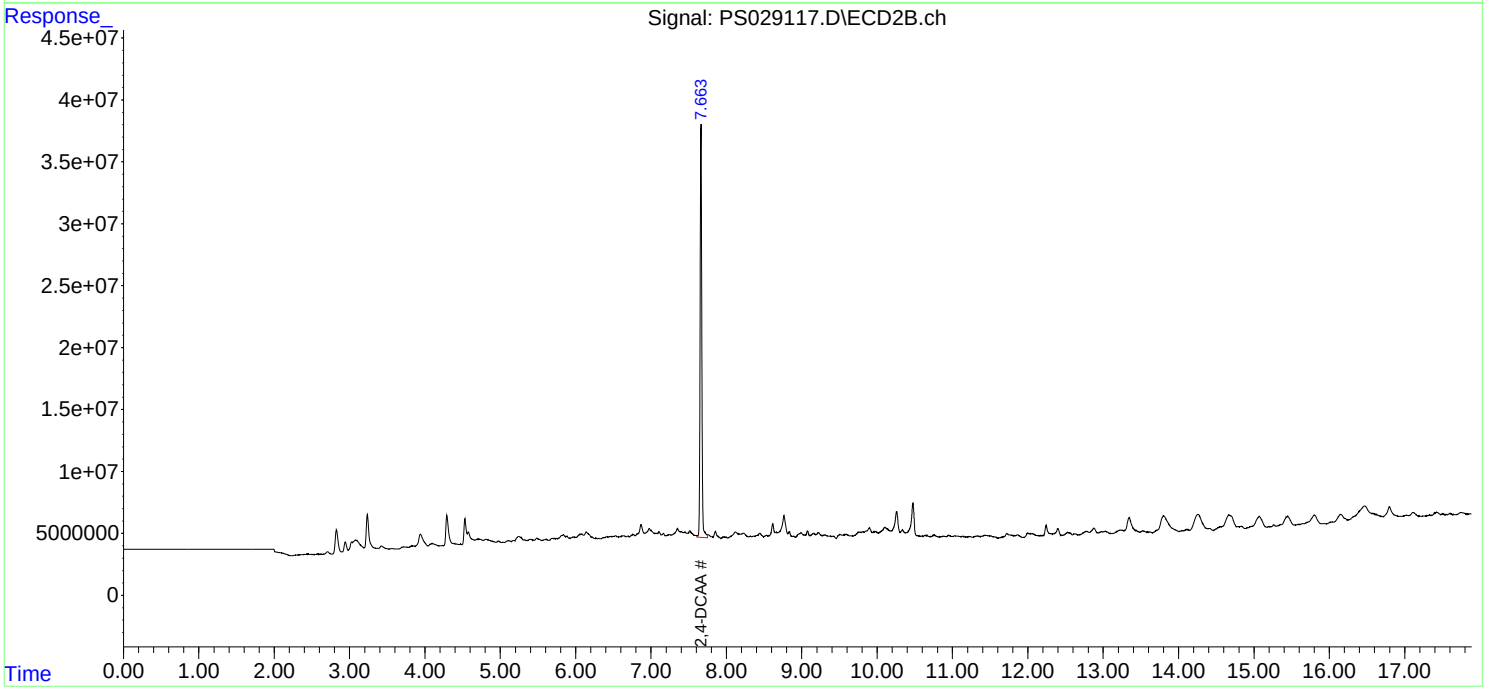
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021125\
Data File : PS029117.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Feb 2025 17:32
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

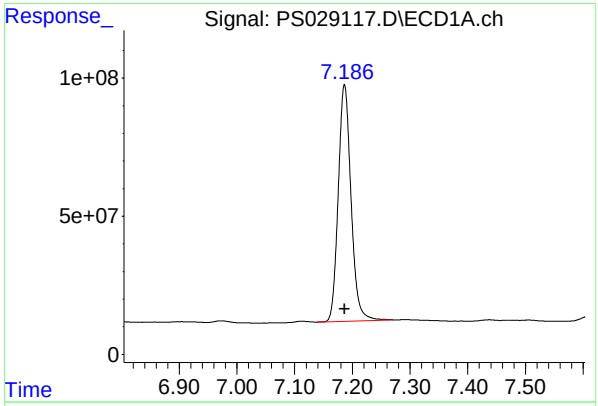
Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 12 03:22:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021125.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 01:14:16 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



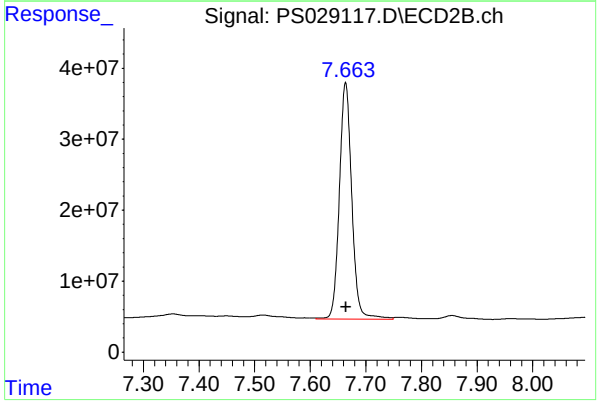




#4 2,4-DCAA

R.T.: 7.186 min
Delta R.T.: 0.000 min
Response: 1319166438
Conc: 477.29 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.664 min
Delta R.T.: 0.000 min
Response: 515158711
Conc: 486.69 ng/ml

Raw Data: **PS029159.D**

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Fax : 908 789 8922

Report of Analysis

Client:	Weston Solutions	Date Collected:	02/13/25
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	02/13/25
Client Sample ID:	PIBLK-PS029159.D	SDG No.:	Q1352
Lab Sample ID:	I.BLK-PS029159.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029159.D	1		02/13/25	ps021325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	1.50	U	0.49	1.50	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	1.50	U	0.45	1.50	2.00	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	510		32 - 138		102%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021325\
Data File : PS029159.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Feb 2025 18:12
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 14 01:21:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021225.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 09:17:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.189	7.662	1408.6E6	527.2E6	509.658	498.041
	Target Compounds						

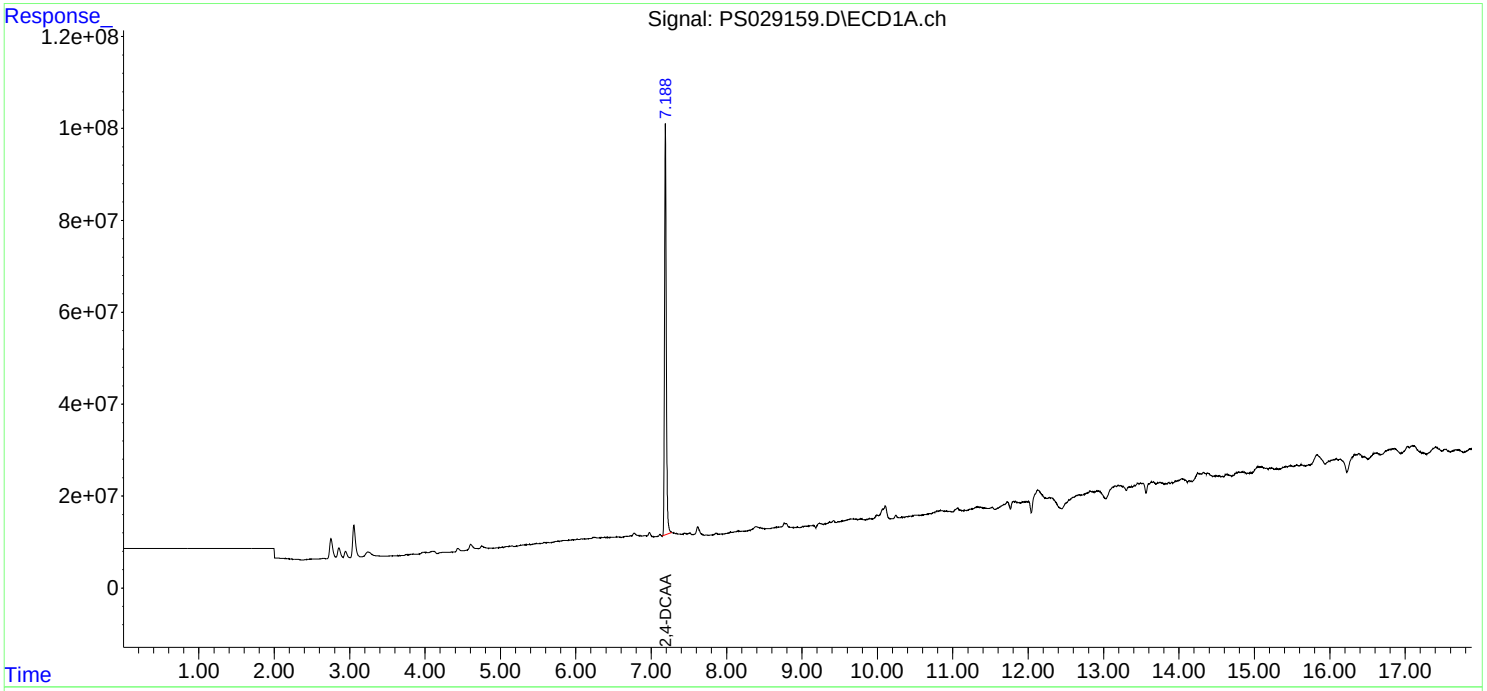
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

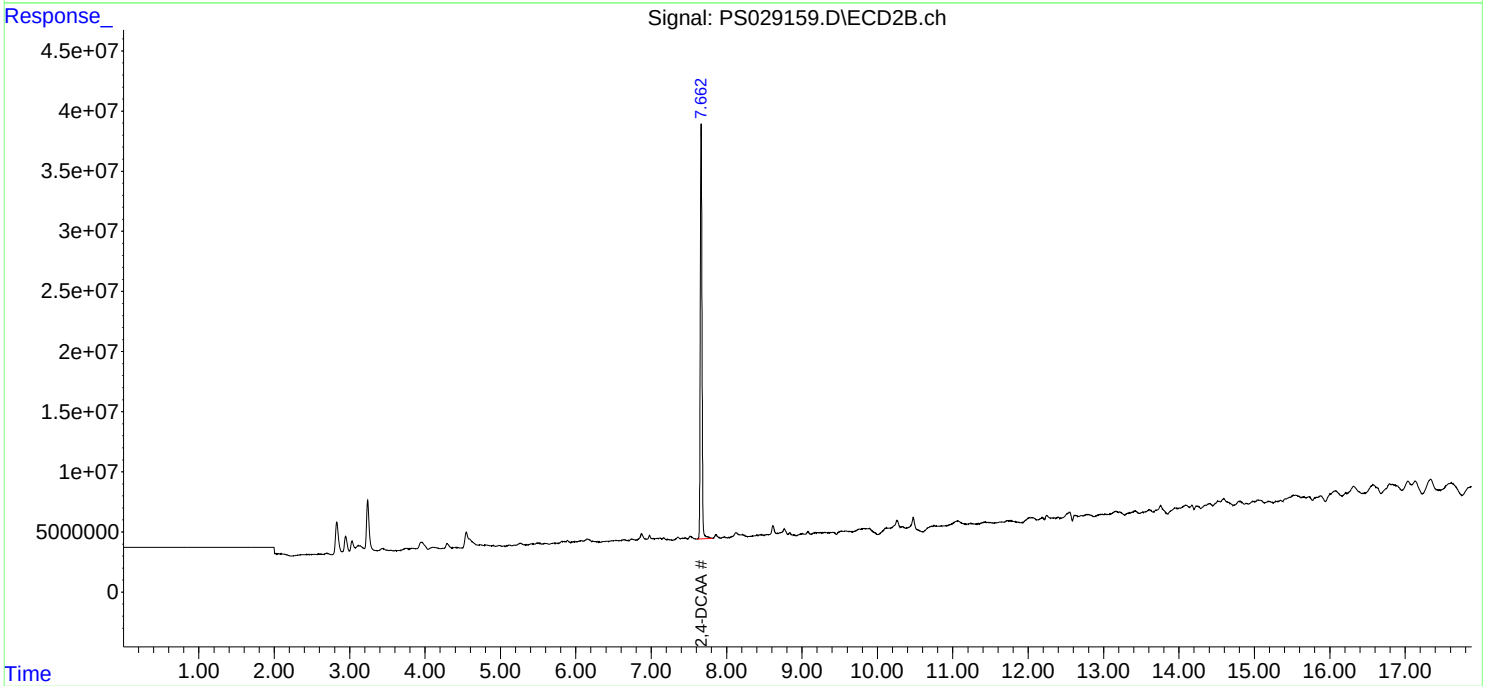
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021325\
Data File : PS029159.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Feb 2025 18:12
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

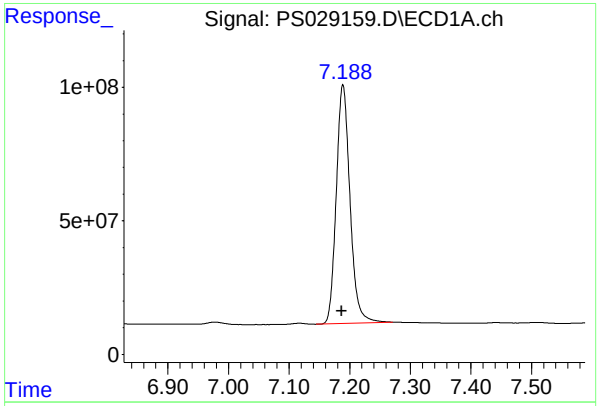
Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 14 01:21:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021225.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 09:17:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



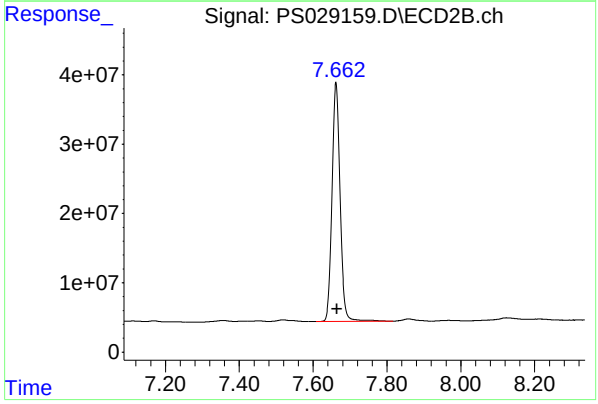




#4 2,4-DCAA

R.T.: 7.189 min
Delta R.T.: 0.002 min
Response: 1408621509
Conc: 509.66 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.662 min
Delta R.T.: -0.002 min
Response: 527174160
Conc: 498.04 ng/ml

Raw Data: **PS029166.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Weston Solutions	Date Collected:	02/13/25
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	02/13/25
Client Sample ID:	PIBLK-PS029166.D	SDG No.:	Q1352
Lab Sample ID:	I.BLK-PS029166.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029166.D	1		02/13/25	ps021325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	1.50	U	0.49	1.50	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	1.50	U	0.45	1.50	2.00	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	503		32 - 138		101%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Sample Results: **PS029166.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021325\
Data File : PS029166.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Feb 2025 21:24
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 14 01:24:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021225.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 09:17:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.189	7.662	1389.2E6	525.0E6	502.644	495.967
	Target Compounds						

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

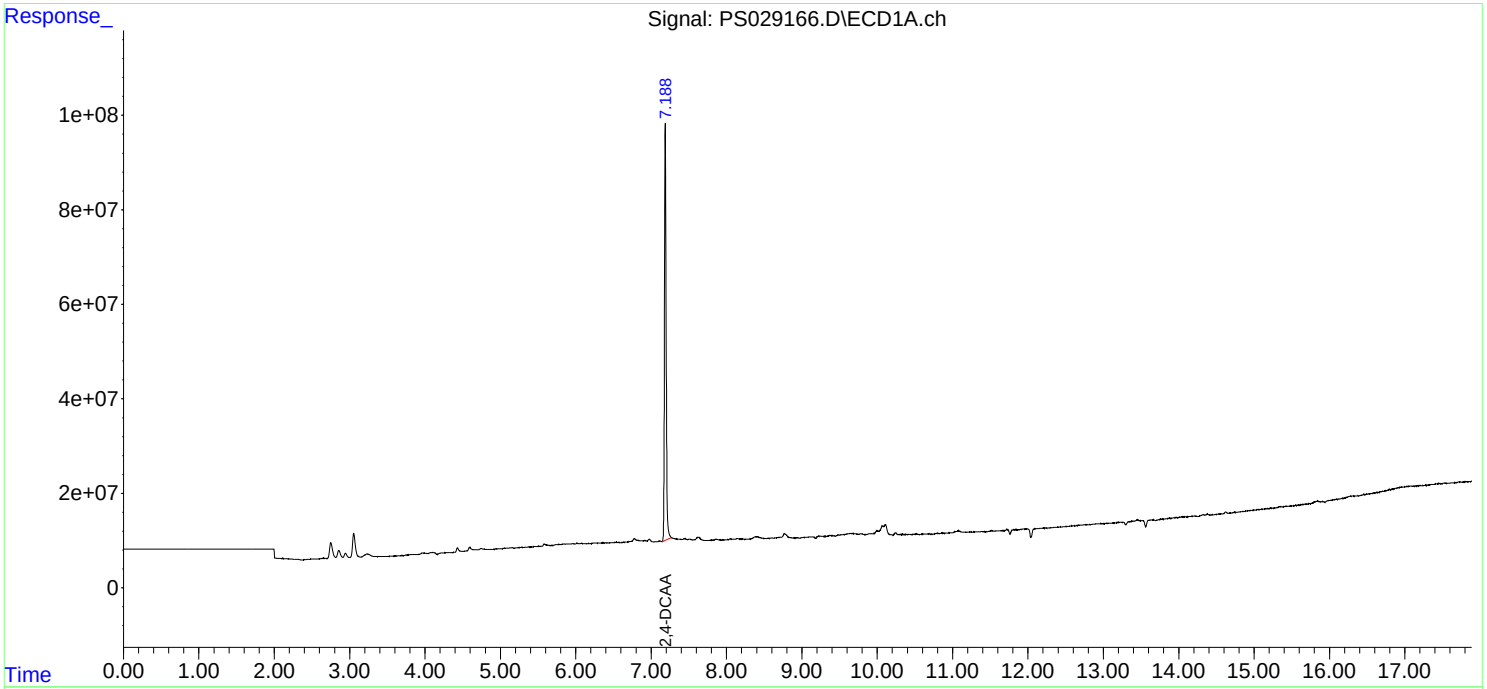
Sample Results: **PS029166.D**

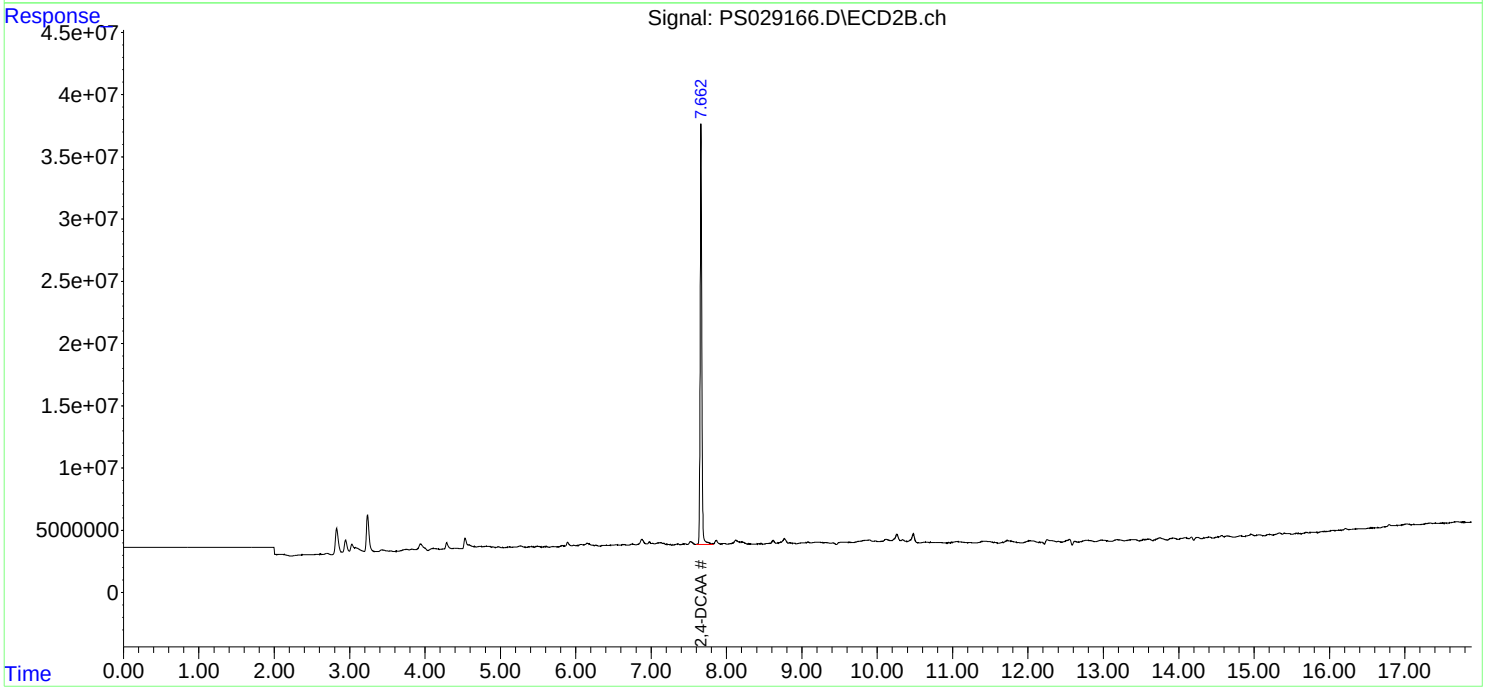
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021325\
Data File : PS029166.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Feb 2025 21:24
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

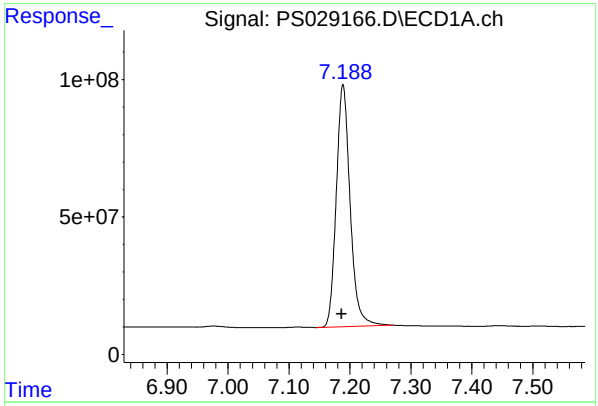
Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 14 01:24:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021225.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 09:17:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



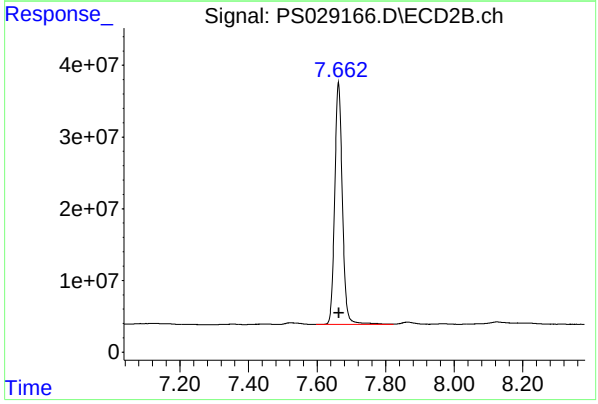




#4 2,4-DCAA

R.T.: 7.189 min
Delta R.T.: 0.002 min
Response: 1389235433
Conc: 502.64 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.662 min
Delta R.T.: -0.002 min
Response: 524978146
Conc: 495.97 ng/ml

Raw Data: **PS029178.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Weston Solutions	Date Collected:	02/14/25
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	02/14/25
Client Sample ID:	PIBLK-PS029178.D	SDG No.:	Q1352
Lab Sample ID:	I.BLK-PS029178.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029178.D	1		02/14/25	ps021325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	1.50	U	0.49	1.50	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	1.50	U	0.45	1.50	2.00	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	502		32 - 138		100%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Sample Results: **PS029178.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021325\
Data File : PS029178.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2025 02:36
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 14 04:00:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021225.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 09:17:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.187	7.661	1386.7E6	528.4E6	501.738	499.165
	Target Compounds						

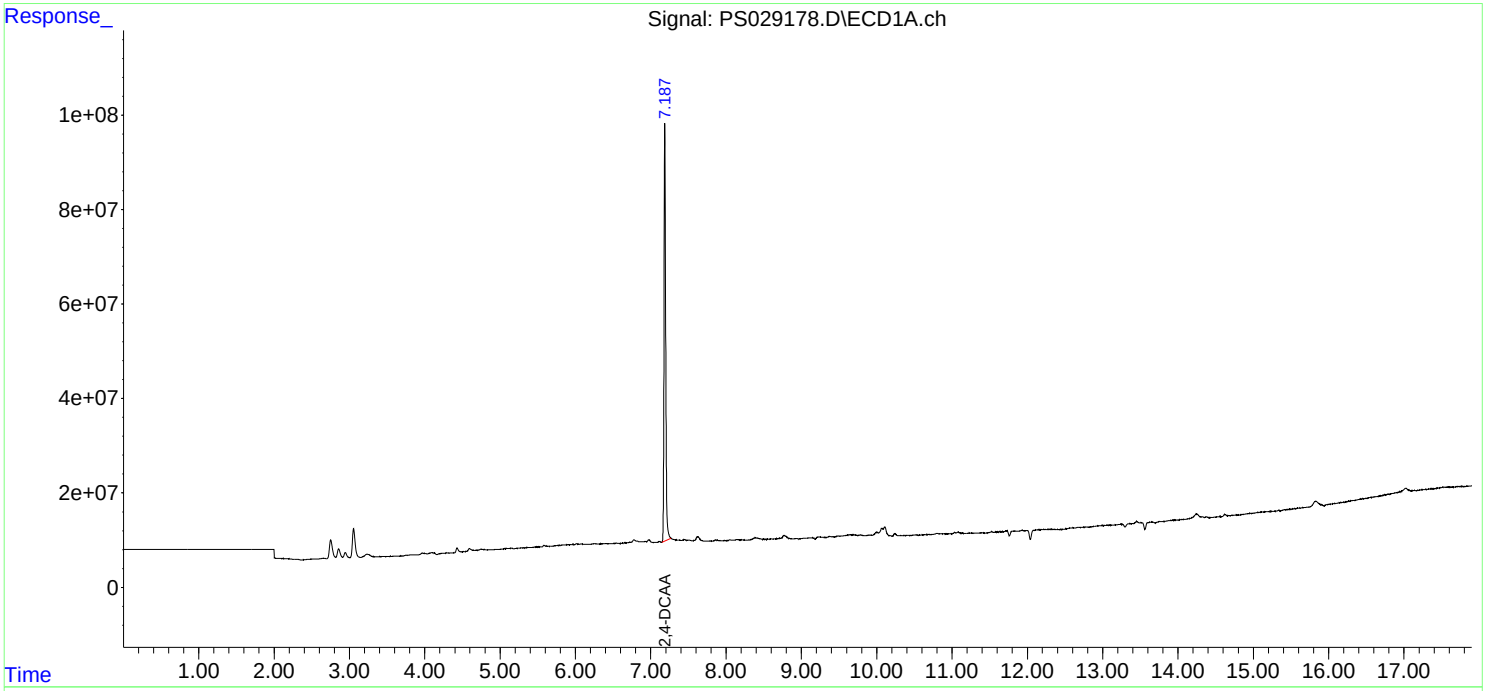
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

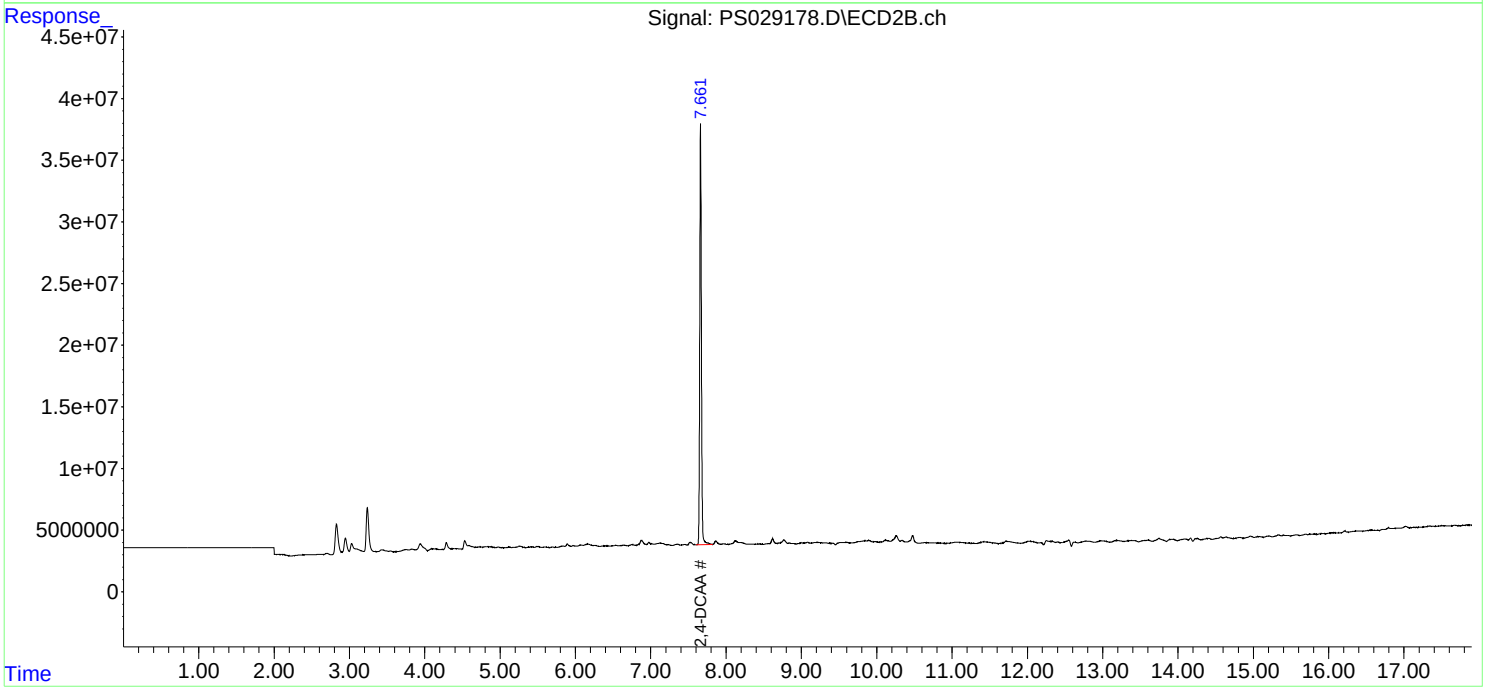
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021325\
Data File : PS029178.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2025 02:36
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

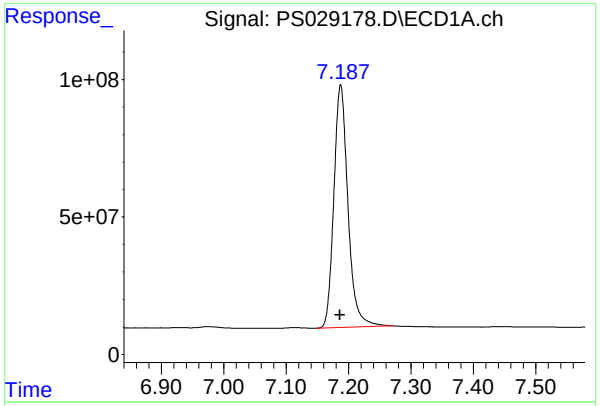
Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 14 04:00:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021225.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 09:17:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



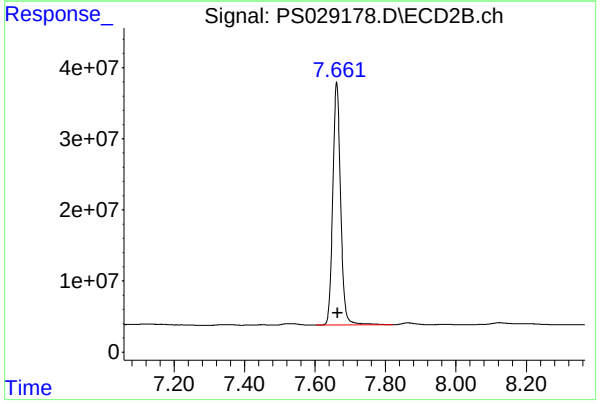




#4 2,4-DCAA

R.T.: 7.187 min
Delta R.T.: 0.000 min
Response: 1386732967
Conc: 501.74 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.661 min
Delta R.T.: -0.003 min
Response: 528363323
Conc: 499.16 ng/ml

Raw Data: **PS029162.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Weston Solutions	Date Collected:	
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	
Client Sample ID:	PB166713BS	SDG No.:	Q1352
Lab Sample ID:	PB166713BS	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029162.D	1	02/13/25 10:15	02/13/25 19:48	PB166713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	4.90		0.49	1.50	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	5.00		0.45	1.50	2.00	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	516		32 - 138		103%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021325\
Data File : PS029162.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Feb 2025 19:48
Operator : AR\AJ
Sample : PB166713BS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB166713BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 14 01:22:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021225.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 09:17:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	7.189	7.663	1424.9E6	511.5E6	515.562	483.211
	Target Compounds						
1) T	Dalapon	2.611	2.658	1433.2E6	844.0E6	453.098	445.779
2) T	3,5-DICHL...	6.367	6.631	1897.5E6	703.1E6	478.964	459.578
3) T	4-Nitroph...	6.987	7.193	812.7E6	399.8E6	476.633	461.015
5) T	DICAMBA	7.373	7.858	5875.8E6	2553.3E6	487.940	462.001
6) T	MCPP	7.554	7.961	322.5E6	116.7E6	46.543	47.301
7) T	MCPA	7.702	8.202	448.9E6	163.7E6	46.896	46.781
8) T	DICHLORPROP	8.076	8.569	1555.9E6	644.8E6	492.522	468.204
9) T	2,4-D	8.305	8.895	1638.8E6	662.1E6	487.157	462.127
10) T	Pentachlo...	8.601	9.416	24924.1E6	11617.2E6	528.568	481.647
11) T	2,4,5-TP ...	9.175	9.793	9683.5E6	4635.5E6	499.398	474.546
12) T	2,4,5-T	9.466	10.210	9621.4E6	4362.1E6	496.726	470.956
13) T	2,4-DB	10.036	10.774	1782.8E6	432.5E6	479.724	455.276
14) T	DINOSEB	11.236	11.151	7854.0E6	2910.7E6	541.629	527.801
15) T	Picloram	11.048	12.231	15153.5E6	6094.3E6	474.251	443.259
16) T	DCPA	11.532	12.187	14704.7E6	5909.2E6	507.122	479.067

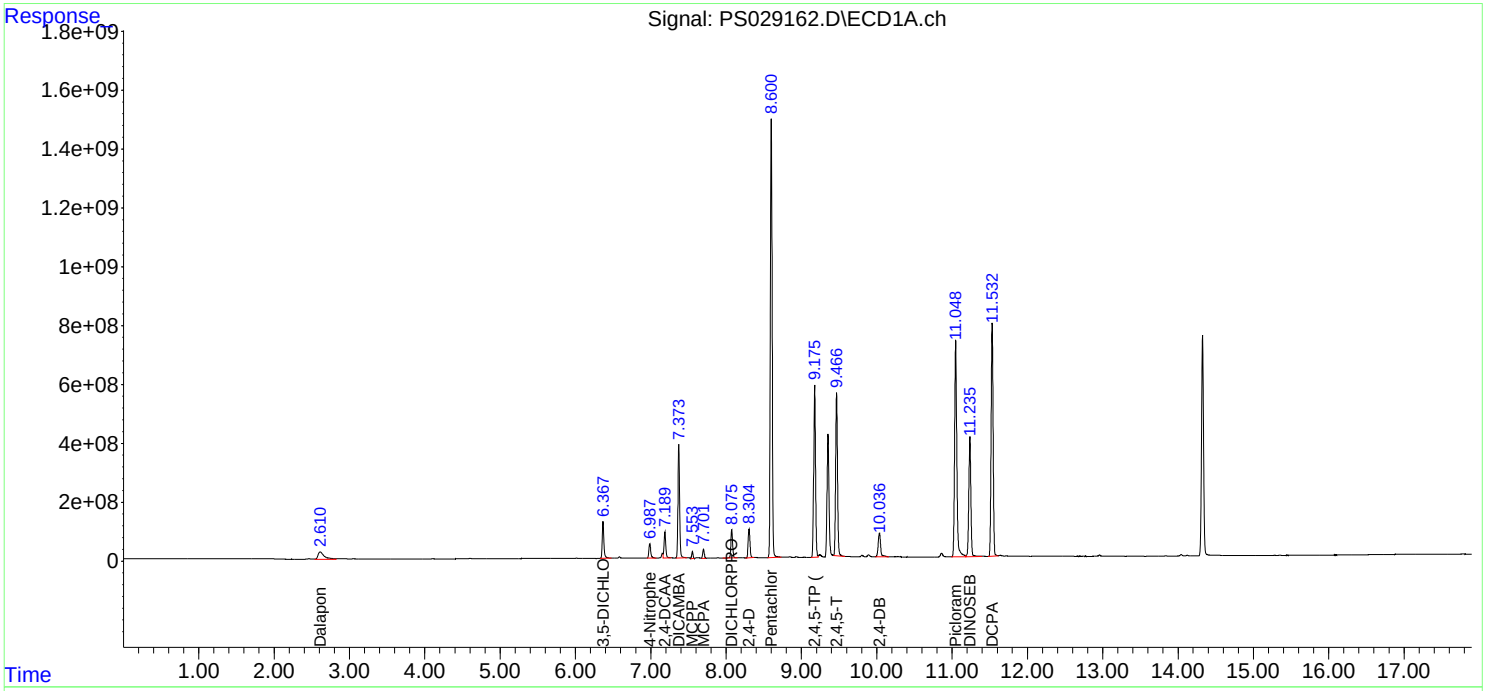
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

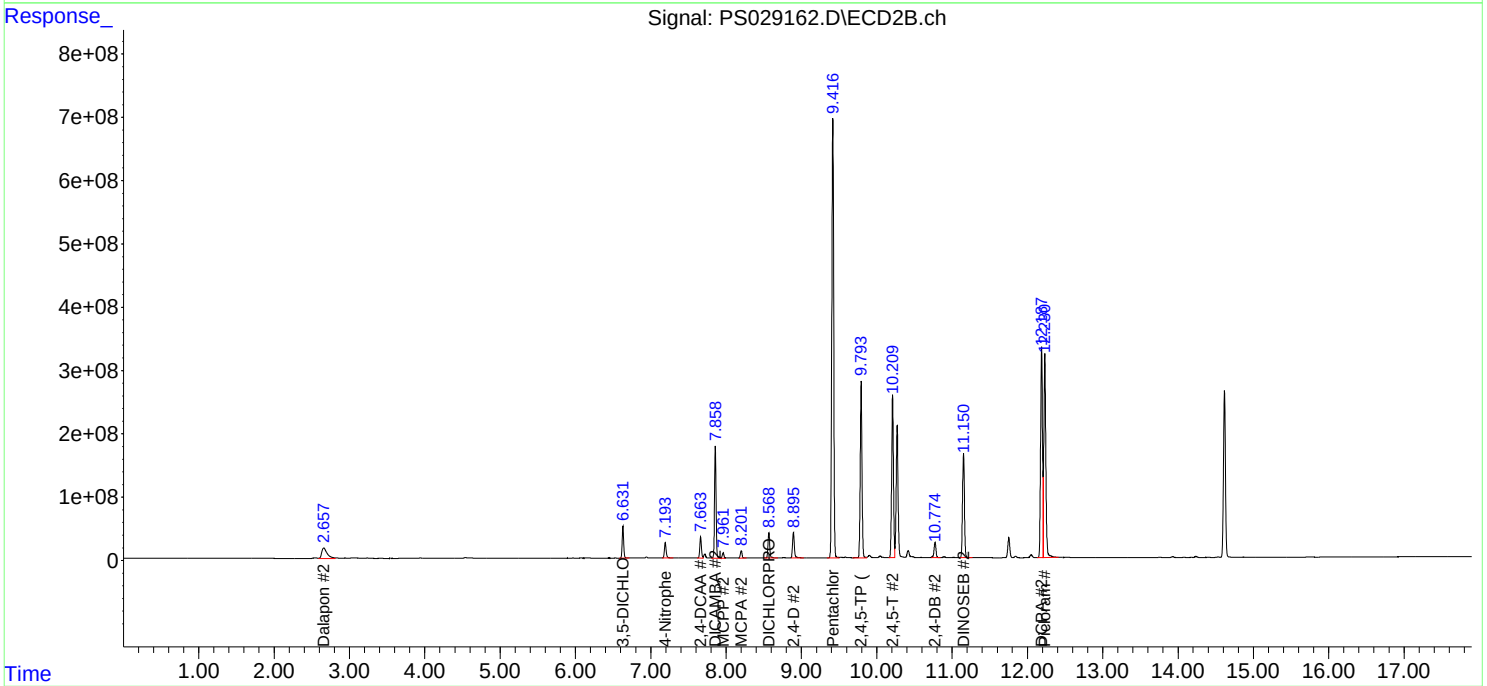
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021325\
Data File : PS029162.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Feb 2025 19:48
Operator : AR\AJ
Sample : PB166713BS
Misc :
ALS Vial : 10 Sample Multiplier: 1

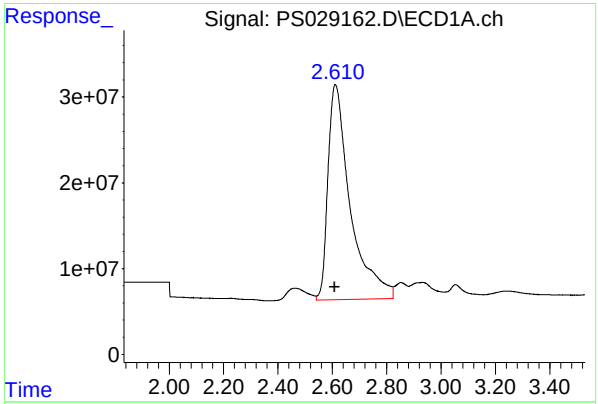
Instrument :
ECD_S
ClientSampleId :
PB166713BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 14 01:22:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021225.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 09:17:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



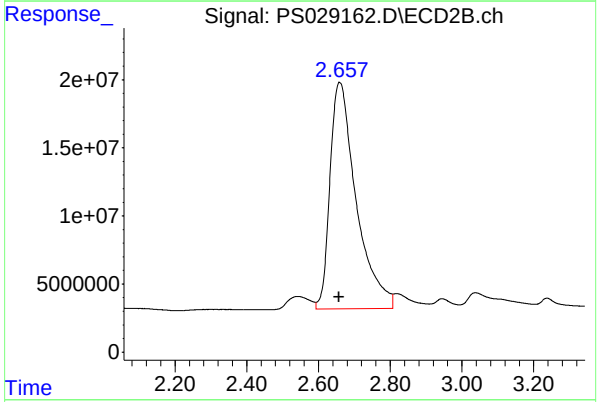




#1 Dalapon

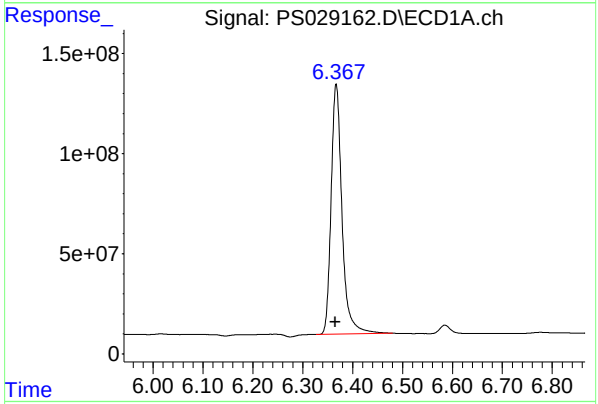
R.T.: 2.611 min
Delta R.T.: 0.002 mi
Response: 1433171314
Conc: 453.10 ng/m

Instrument :
ECD_S
ClientSampleId :
PB166713BS



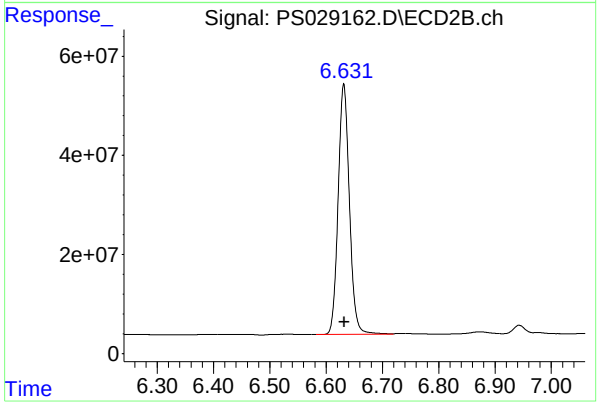
#1 Dalapon

R.T.: 2.658 min
Delta R.T.: 0.000 min
Response: 843993140
Conc: 445.78 ng/ml



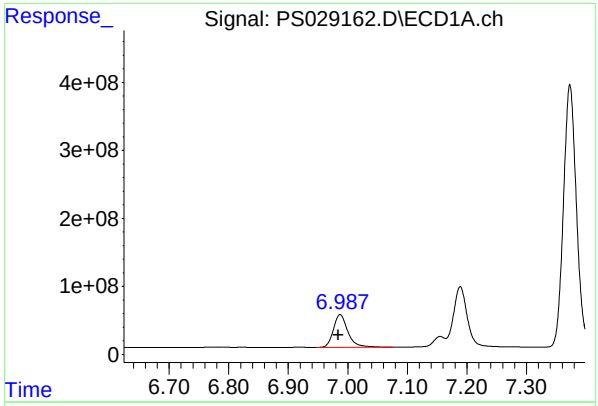
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.367 min
Delta R.T.: 0.002 min
Response: 1897544579
Conc: 478.96 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

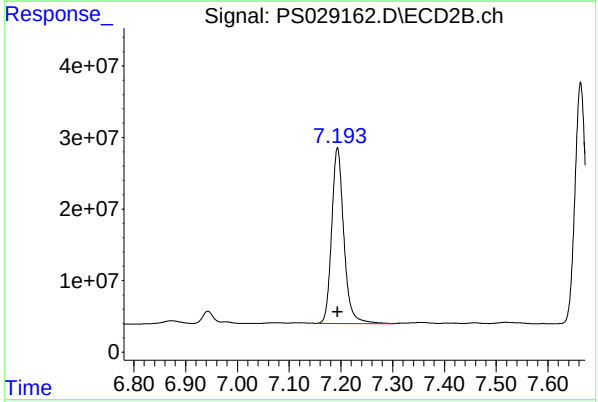
R.T.: 6.631 min
Delta R.T.: 0.000 min
Response: 703092840
Conc: 459.58 ng/ml



#3 4-Nitrophenol

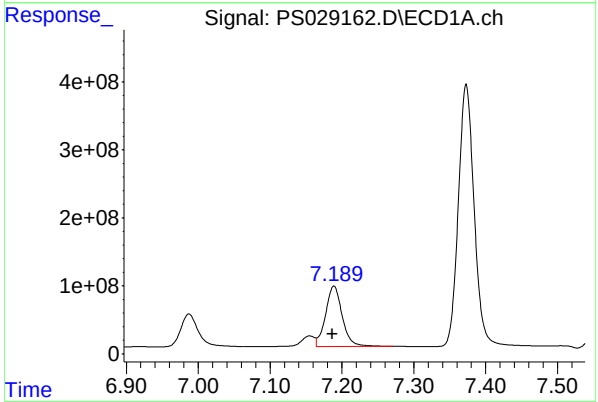
R.T.: 6.987 min
Delta R.T.: 0.003 min
Response: 812693312
Conc: 476.63 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB166713BS



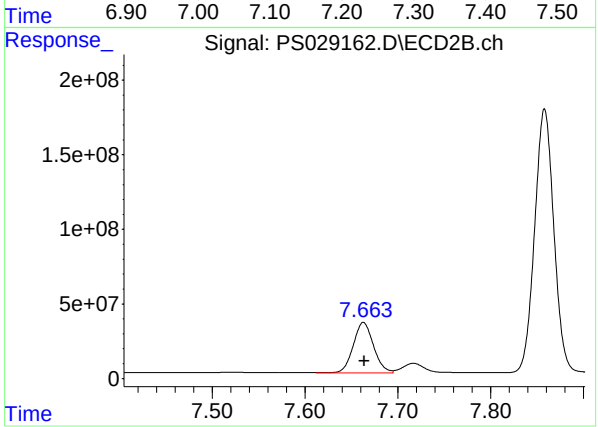
#3 4-Nitrophenol

R.T.: 7.193 min
Delta R.T.: 0.000 min
Response: 399837740
Conc: 461.01 ng/ml



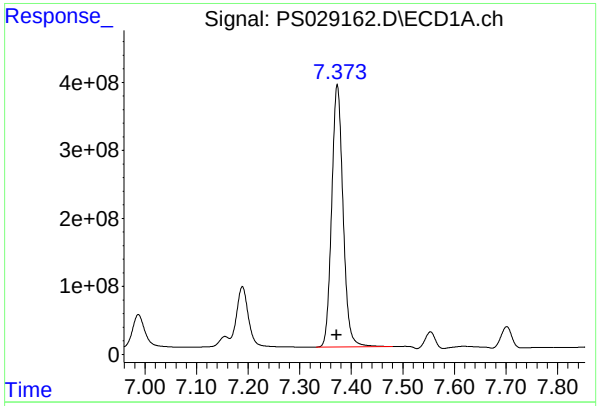
#4 2,4-DCAA

R.T.: 7.189 min
Delta R.T.: 0.002 min
Response: 1424940344
Conc: 515.56 ng/ml



#4 2,4-DCAA

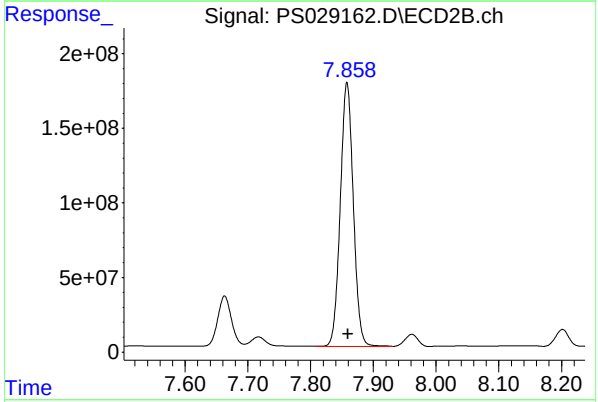
R.T.: 7.663 min
Delta R.T.: -0.001 min
Response: 511476757
Conc: 483.21 ng/ml



#5 DICAMBA

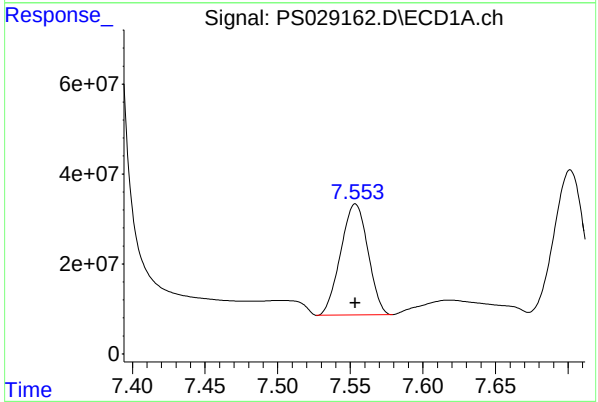
R.T.: 7.373 min
Delta R.T.: 0.002 min
Response: 5875754127
Conc: 487.94 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB166713BS



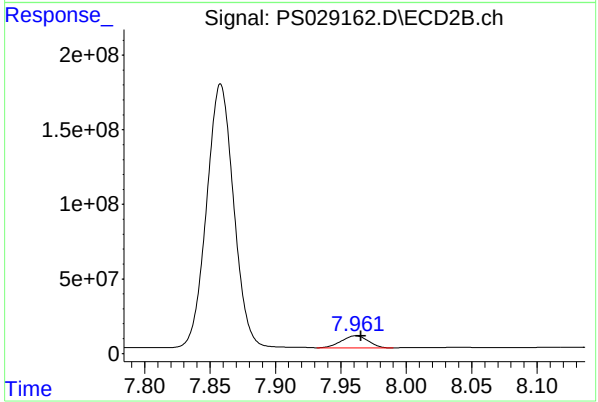
#5 DICAMBA

R.T.: 7.858 min
Delta R.T.: -0.002 min
Response: 2553295085
Conc: 462.00 ng/ml



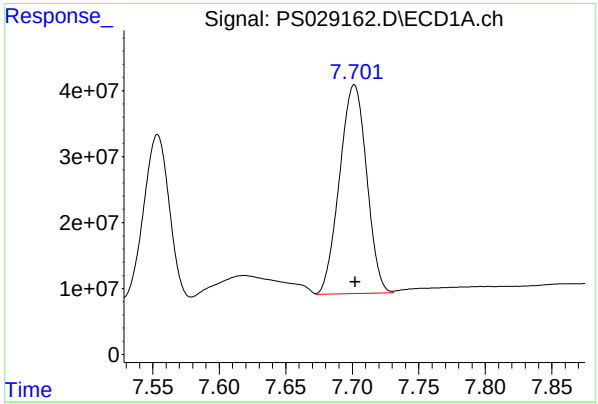
#6 MCPP

R.T.: 7.554 min
Delta R.T.: 0.000 min
Response: 322466340
Conc: 46.54 ug/ml



#6 MCPP

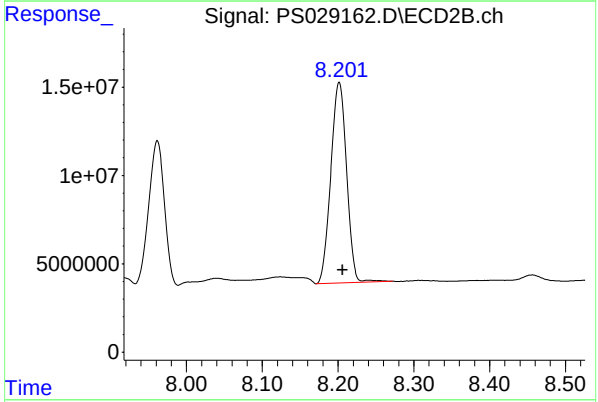
R.T.: 7.961 min
Delta R.T.: -0.004 min
Response: 116701082
Conc: 47.30 ug/ml



#7 MCPA

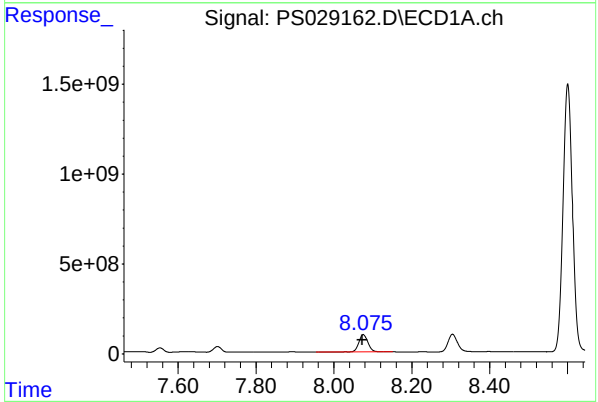
R.T.: 7.702 min
Delta R.T.: 0.000 min
Response: 448891677
Conc: 46.90 ug/ml

Instrument :
ECD_S
ClientSampleId :
PB166713BS



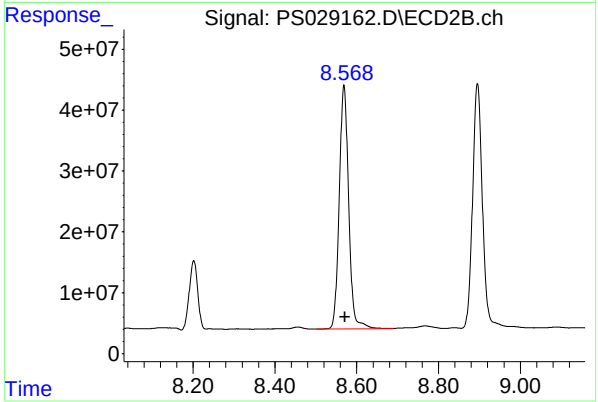
#7 MCPA

R.T.: 8.202 min
Delta R.T.: -0.005 min
Response: 163658717
Conc: 46.78 ug/ml



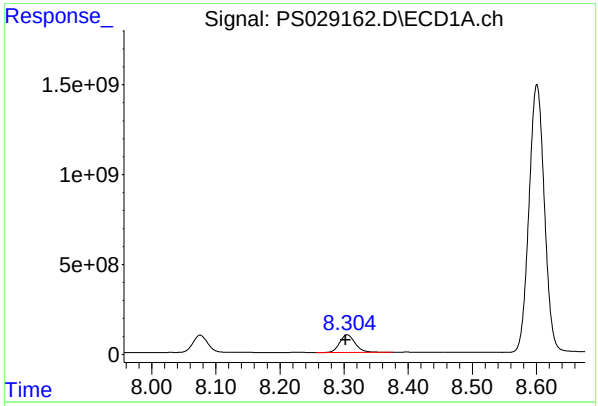
#8 DICHLORPROP

R.T.: 8.076 min
Delta R.T.: 0.002 min
Response: 1555906564
Conc: 492.52 ng/ml



#8 DICHLORPROP

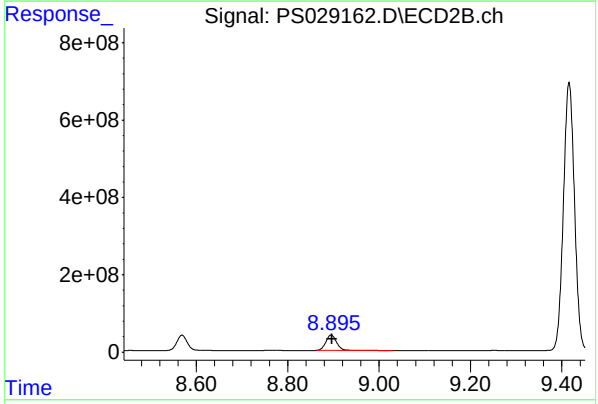
R.T.: 8.569 min
Delta R.T.: -0.002 min
Response: 644758696
Conc: 468.20 ng/ml



#9 2,4-D

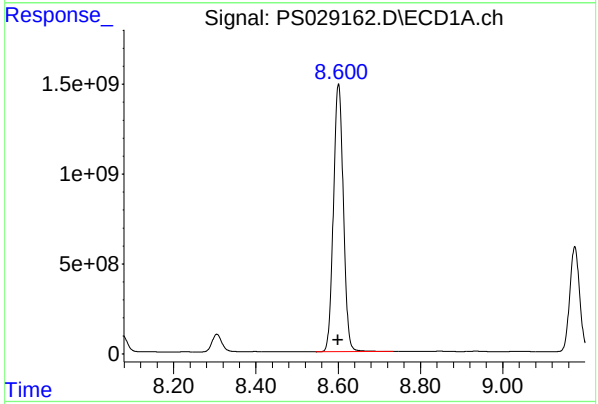
R.T.: 8.305 min
Delta R.T.: 0.003 min
Response: 1638842368
Conc: 487.16 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB166713BS



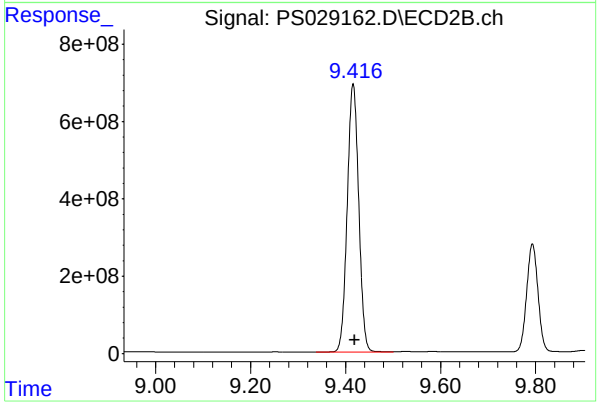
#9 2,4-D

R.T.: 8.895 min
Delta R.T.: -0.002 min
Response: 662056207
Conc: 462.13 ng/ml



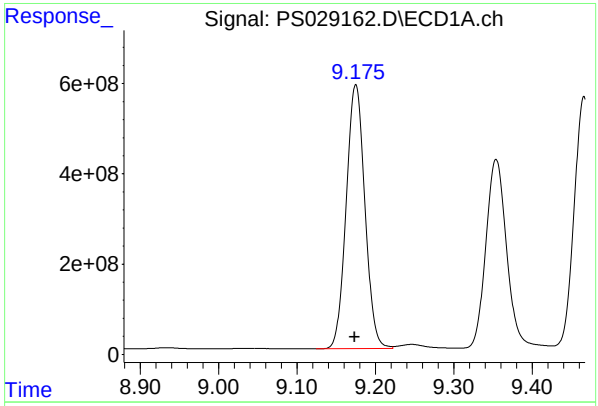
#10 Pentachlorophenol

R.T.: 8.601 min
Delta R.T.: 0.002 min
Response: 24924075603
Conc: 528.57 ng/ml



#10 Pentachlorophenol

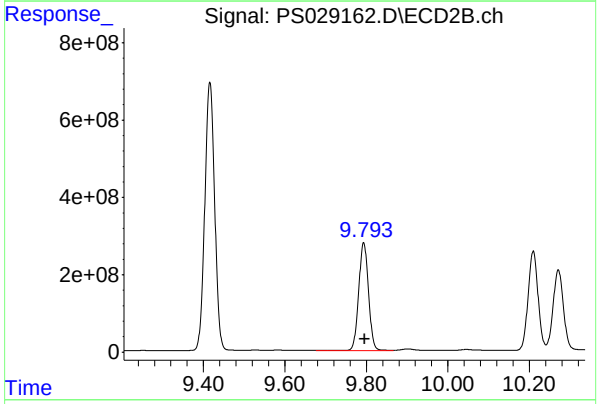
R.T.: 9.416 min
Delta R.T.: -0.003 min
Response: 11617156647
Conc: 481.65 ng/ml



#11 2,4,5-TP (SILVEX)

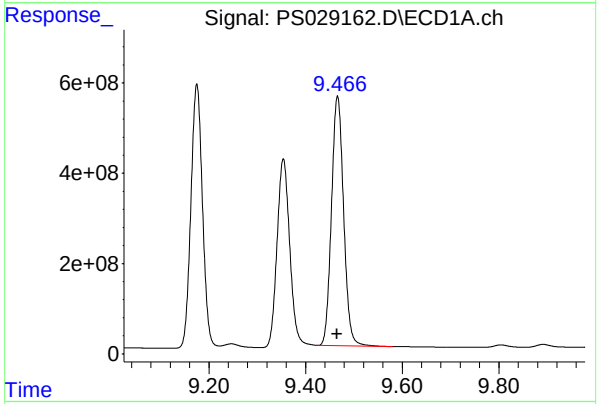
R.T.: 9.175 min
Delta R.T.: 0.002 min
Response: 9683500959
Conc: 499.40 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB166713BS



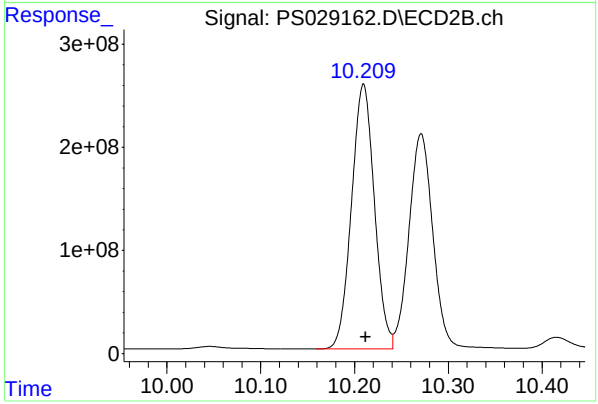
#11 2,4,5-TP (SILVEX)

R.T.: 9.793 min
Delta R.T.: -0.003 min
Response: 4635466114
Conc: 474.55 ng/ml



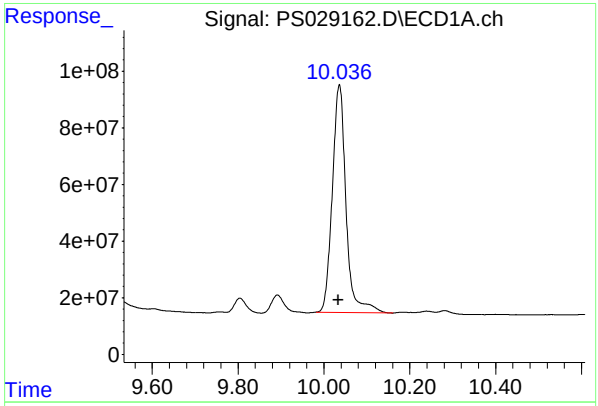
#12 2,4,5-T

R.T.: 9.466 min
Delta R.T.: 0.002 min
Response: 9621410491
Conc: 496.73 ng/ml



#12 2,4,5-T

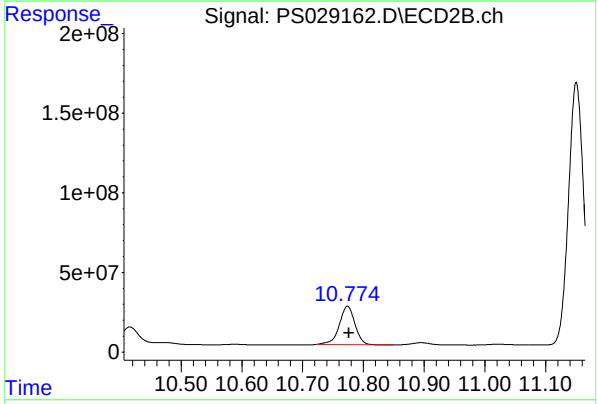
R.T.: 10.210 min
Delta R.T.: -0.003 min
Response: 4362128296
Conc: 470.96 ng/ml



#13 2,4-DB

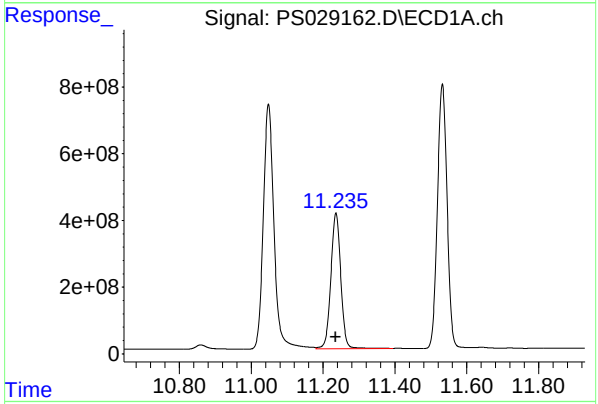
R.T.: 10.036 min
Delta R.T.: 0.002 min
Response: 1782796219
Conc: 479.72 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB166713BS



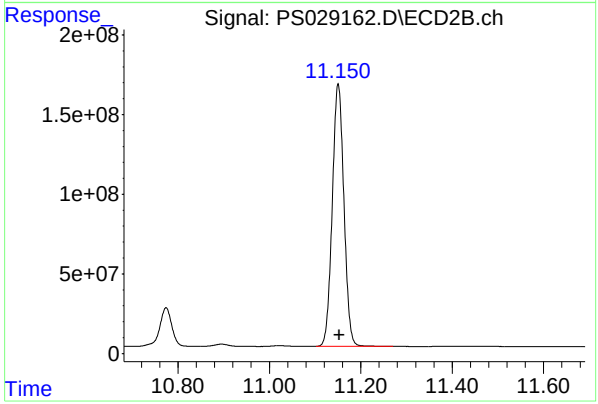
#13 2,4-DB

R.T.: 10.774 min
Delta R.T.: -0.002 min
Response: 432507097
Conc: 455.28 ng/ml



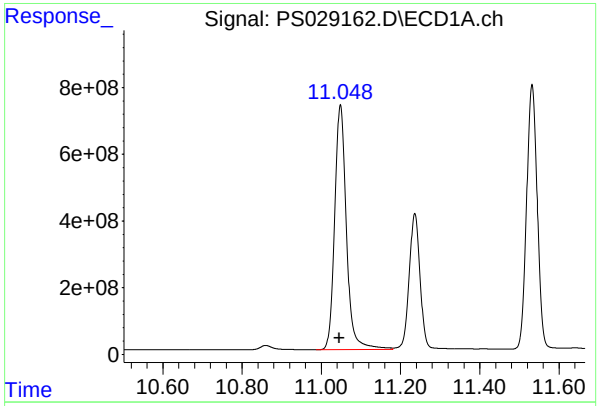
#14 DINOSEB

R.T.: 11.236 min
Delta R.T.: 0.001 min
Response: 7853952172
Conc: 541.63 ng/ml



#14 DINOSEB

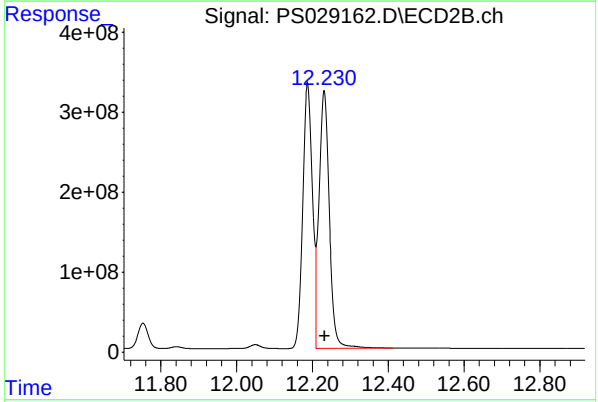
R.T.: 11.151 min
Delta R.T.: -0.003 min
Response: 2910661866
Conc: 527.80 ng/ml



#15 Picloram

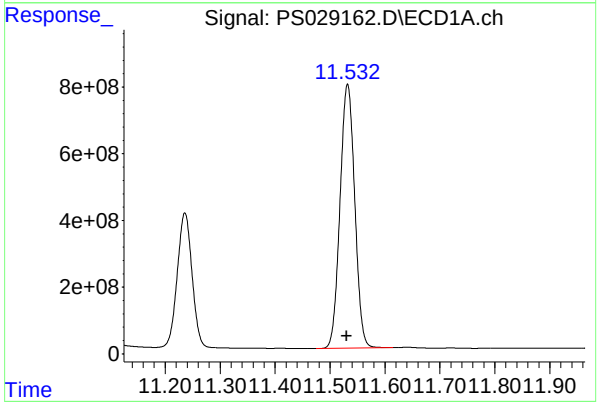
R.T.: 11.048 min
Delta R.T.: 0.003 min
Response: 15153481884
Conc: 474.25 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB166713BS



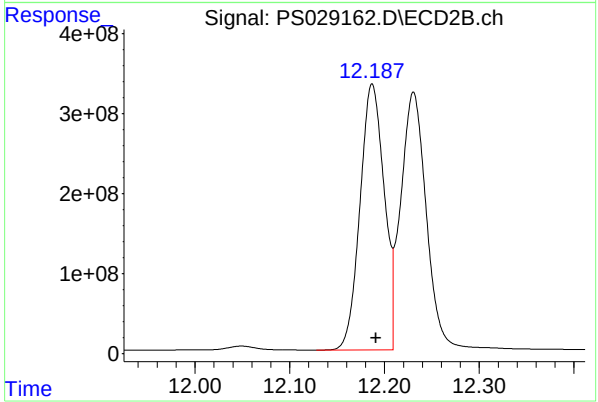
#15 Picloram

R.T.: 12.231 min
Delta R.T.: -0.002 min
Response: 6094305397
Conc: 443.26 ng/ml



#16 DCPA

R.T.: 11.532 min
Delta R.T.: 0.001 min
Response: 14704665061
Conc: 507.12 ng/ml



#16 DCPA

R.T.: 12.187 min
Delta R.T.: -0.004 min
Response: 5909207288
Conc: 479.07 ng/ml

Raw Data: **PS029171.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Weston Solutions	Date Collected:	02/11/25
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	02/11/25
Client Sample ID:	CARBON-WATERMS	SDG No.:	Q1352
Lab Sample ID:	Q1356-04MS	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029171.D	1	02/13/25 10:15	02/13/25 23:48	PB166713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	48.2		4.90	15.0	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	48.2		4.50	15.0	20.0	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	497		32 - 138		99%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021325\
Data File : PS029171.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Feb 2025 23:48
Operator : AR\AJ
Sample : Q1356-04MS
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMS

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 02/14/2025
Supervised By :Ankita Jodhani 02/14/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 14 01:26:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021225.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 09:17:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	7.187	7.662	1373.3E6	497.4E6	496.888m	469.871
		Target Compounds						
1)	T	Dalapon	2.615	2.661	1519.2E6	968.4E6	480.282	511.493
2)	T	3,5-DICHL...	6.366	6.630	1854.6E6	669.5E6	468.114	437.603
3)	T	4-Nitroph...	6.986	7.192	704.3E6	358.7E6	413.053	413.632
5)	T	DICAMBA	7.372	7.857	5195.9E6	2344.1E6	431.480	424.141
6)	T	MCPP	7.552	7.961	291.7E6	107.4E6	42.103	43.543
7)	T	MCPA	7.700	8.201	405.3E6	152.7E6	42.344	43.635
8)	T	DICHLORPROP	8.074	8.568	1384.8E6	657.6E6	438.354	477.498
9)	T	2,4-D	8.303	8.895	1622.6E6	673.8E6	482.344	470.321
10)	T	Pentachlo...	8.599	9.415	23532.0E6	11027.0E6	499.045	457.178
11)	T	2,4,5-TP ...	9.174	9.792	9337.3E6	4578.5E6	481.544	468.718m
12)	T	2,4,5-T	9.464	10.209	8482.3E6	3956.5E6	437.919	427.160
13)	T	2,4-DB	10.036	10.773	1371.8E6	436.2E6	369.135	459.196m
14)	T	DINOSEB	11.234	11.150	6627.5E6	2342.6E6	457.050	424.793
15)	T	Picloram	11.047	12.229	12155.3E6	4843.3E6	380.417	352.272
16)	T	DCPA	11.527	12.187	9255.8E6	5437.8E6	319.206	440.846 #

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021325\
Data File : PS029171.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Feb 2025 23:48
Operator : AR\AJ
Sample : Q1356-04MS
Misc :
ALS Vial : 17 Sample Multiplier: 1

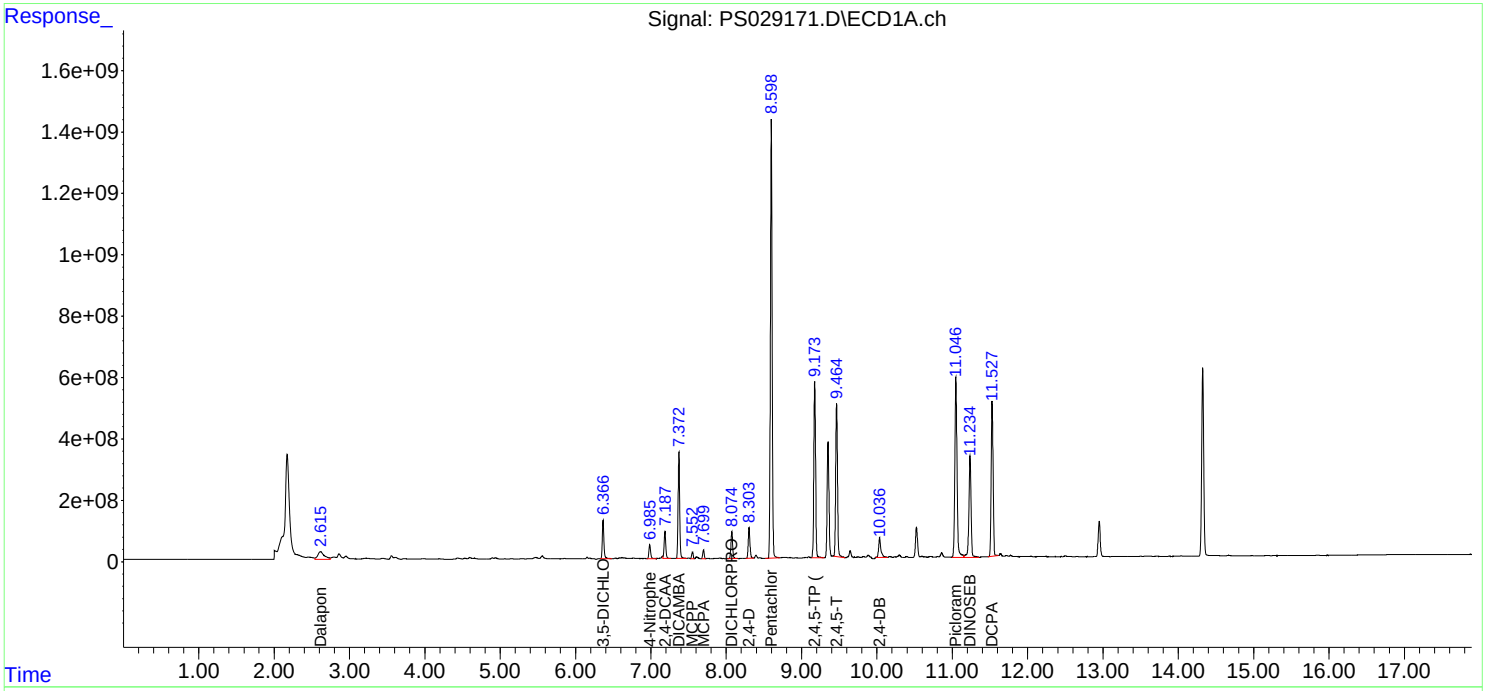
Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMS

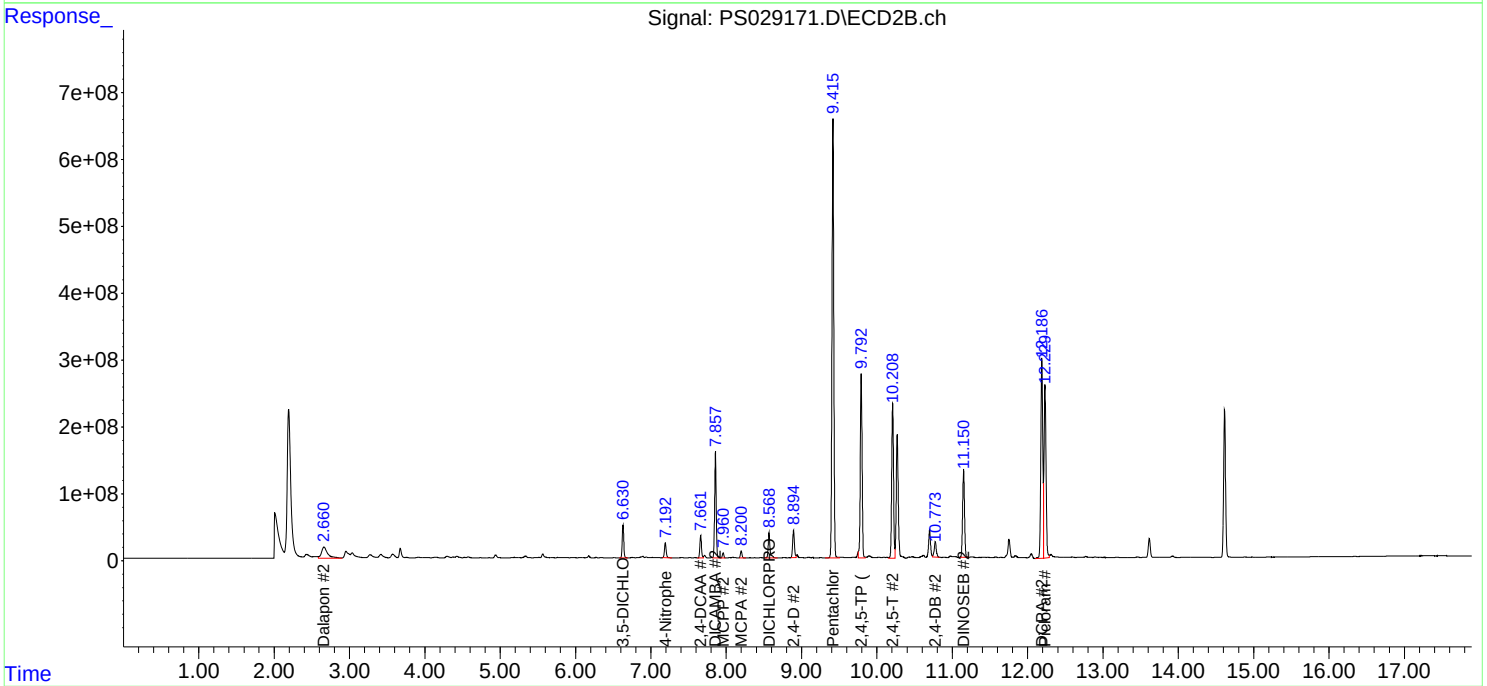
Manual Integrations APPROVED

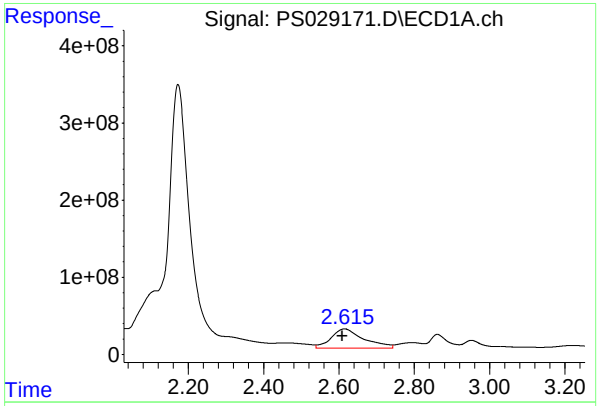
Reviewed By :Abdul Mirza 02/14/2025
Supervised By :Ankita Jodhani 02/14/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 14 01:26:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021225.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 09:17:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm







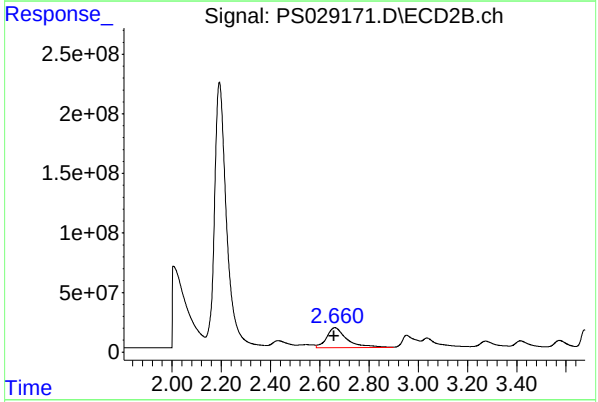
#1 Dalapon

R.T.: 2.615 min
Delta R.T.: 0.006 min
Response: 1519155351
Conc: 480.28 ng/ml

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMS

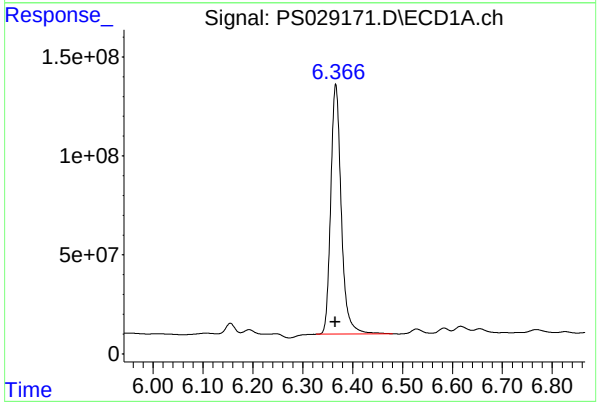
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 02/14/2025
Supervised By :Ankita Jodhani 02/14/2025



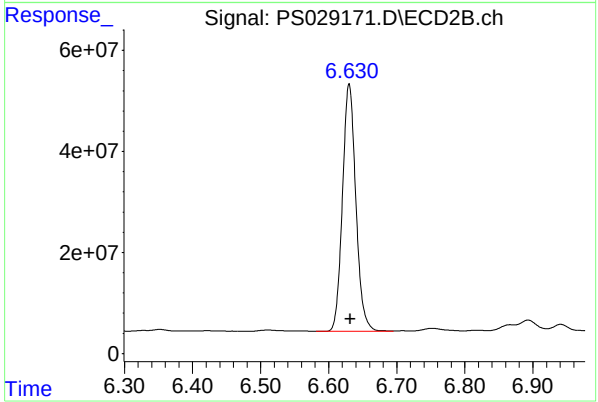
#1 Dalapon

R.T.: 2.661 min
Delta R.T.: 0.003 min
Response: 968411072
Conc: 511.49 ng/ml



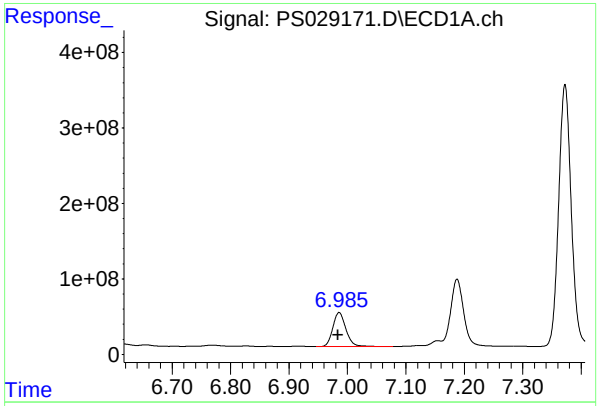
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.366 min
Delta R.T.: 0.000 min
Response: 1854559247
Conc: 468.11 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.630 min
Delta R.T.: -0.002 min
Response: 669473885
Conc: 437.60 ng/ml



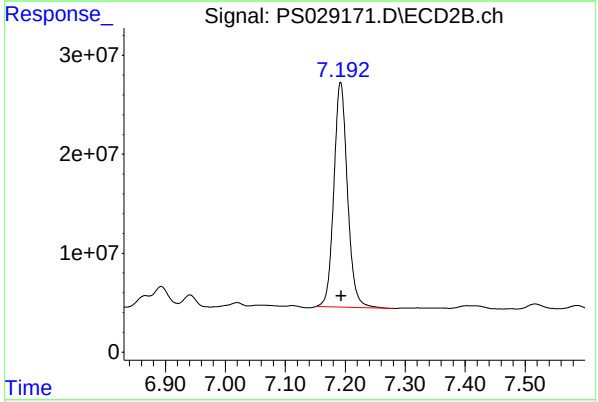
#3 4-Nitrophenol

R.T.: 6.986 min
Delta R.T.: 0.002 mi
Response: 704285243
Conc: 413.05 ng/m

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMS

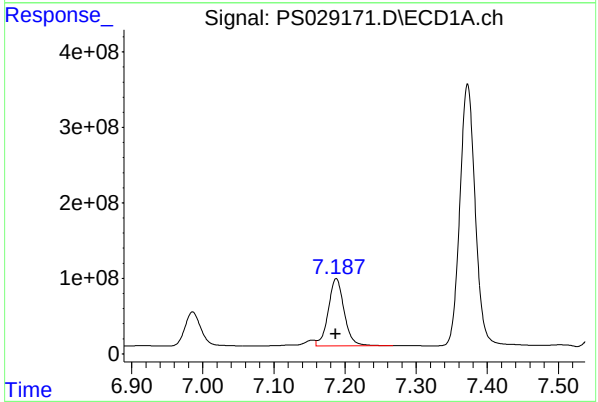
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/14/2025
Supervised By :Ankita Jodhani 02/14/2025



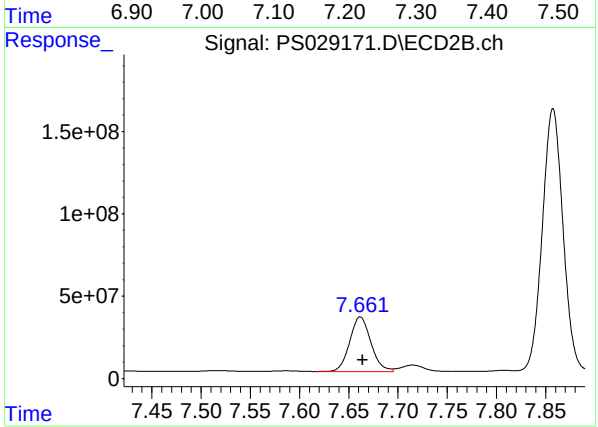
#3 4-Nitrophenol

R.T.: 7.192 min
Delta R.T.: -0.001 min
Response: 358742203
Conc: 413.63 ng/ml



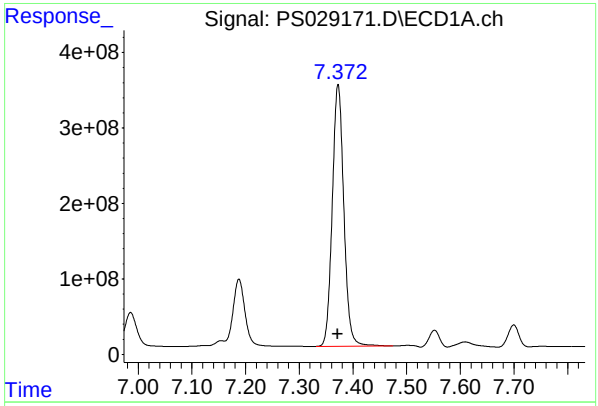
#4 2,4-DCAA

R.T.: 7.187 min
Delta R.T.: 0.000 min
Response: 1373327804
Conc: 496.89 ng/ml m



#4 2,4-DCAA

R.T.: 7.662 min
Delta R.T.: -0.002 min
Response: 497356161
Conc: 469.87 ng/ml



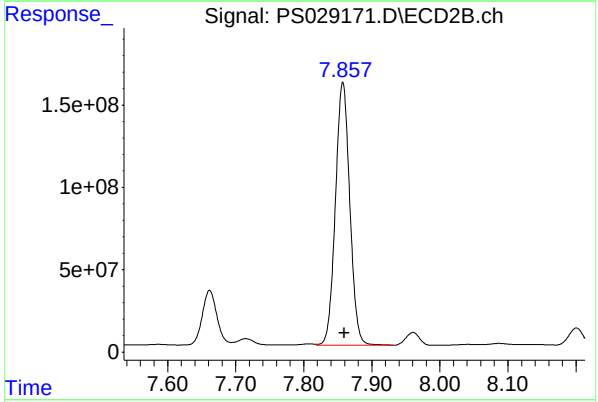
#5 DICAMBA

R.T.: 7.372 min
Delta R.T.: 0.001 min
Response: 5195857205
Conc: 431.48 ng/ml

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMS

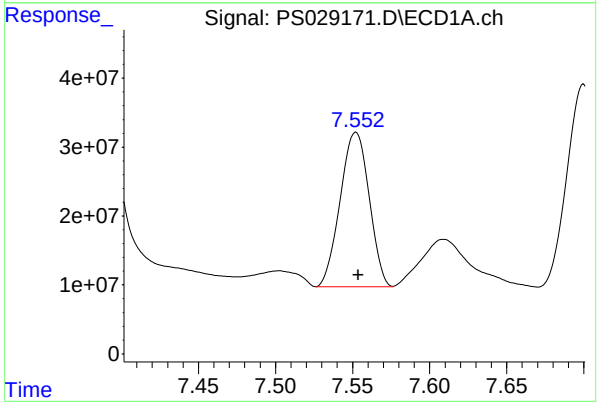
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/14/2025
Supervised By :Ankita Jodhani 02/14/2025



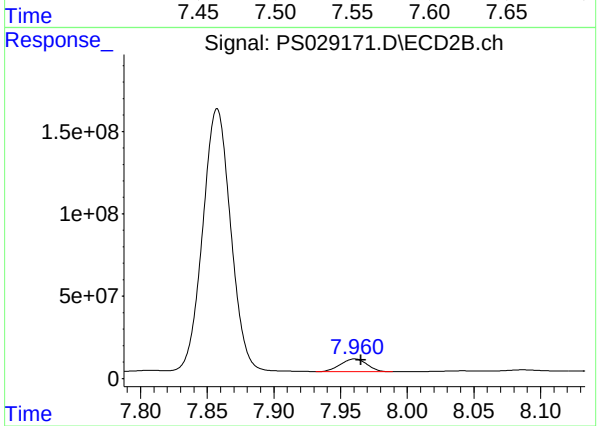
#5 DICAMBA

R.T.: 7.857 min
Delta R.T.: -0.002 min
Response: 2344054631
Conc: 424.14 ng/ml



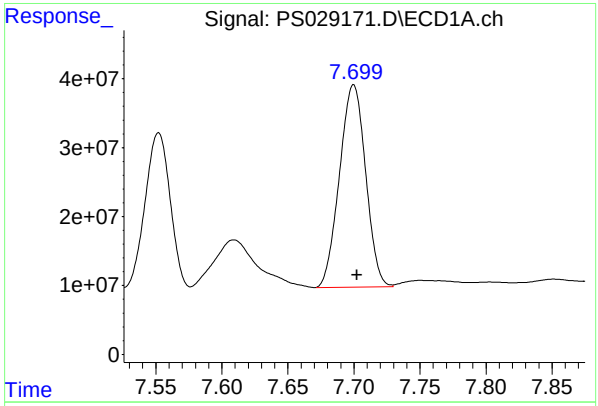
#6 MCPP

R.T.: 7.552 min
Delta R.T.: -0.002 min
Response: 291707749
Conc: 42.10 ug/ml



#6 MCPP

R.T.: 7.961 min
Delta R.T.: -0.005 min
Response: 107430275
Conc: 43.54 ug/ml



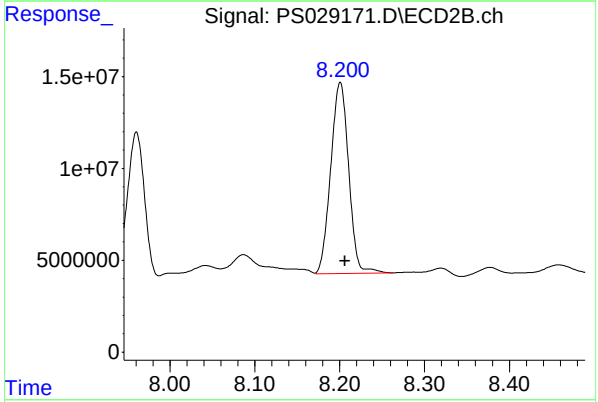
#7 MCPA

R.T.: 7.700 min
Delta R.T.: -0.003 min
Response: 405324286
Conc: 42.34 ug/ml

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMS

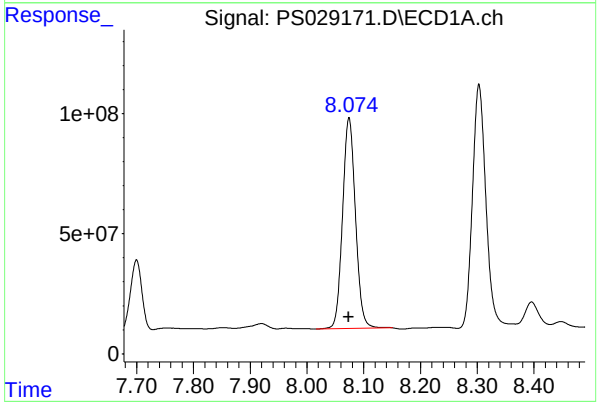
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 02/14/2025
Supervised By :Ankita Jodhani 02/14/2025



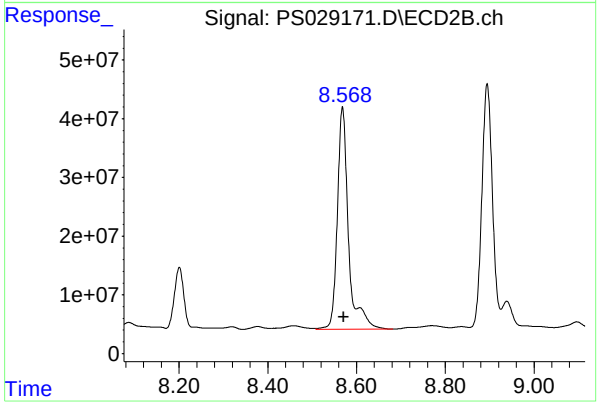
#7 MCPA

R.T.: 8.201 min
Delta R.T.: -0.005 min
Response: 152650707
Conc: 43.63 ug/ml



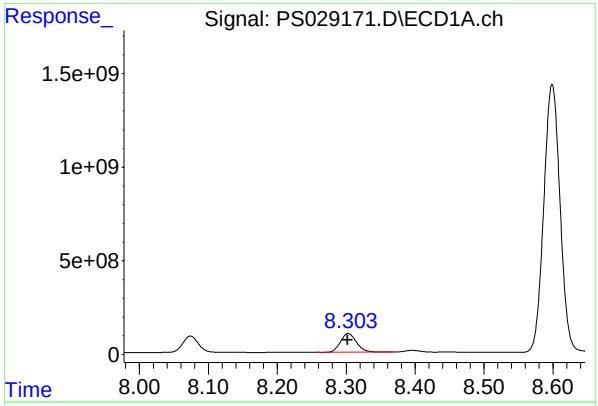
#8 DICHLORPROP

R.T.: 8.074 min
Delta R.T.: 0.000 min
Response: 1384788368
Conc: 438.35 ng/ml



#8 DICHLORPROP

R.T.: 8.568 min
Delta R.T.: -0.003 min
Response: 657557131
Conc: 477.50 ng/ml



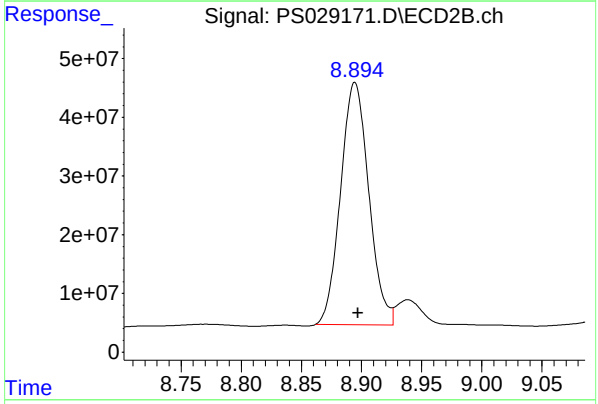
#9 2,4-D

R.T.: 8.303 min
Delta R.T.: 0.000 min
Response: 1622648781
Conc: 482.34 ng/ml

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMS

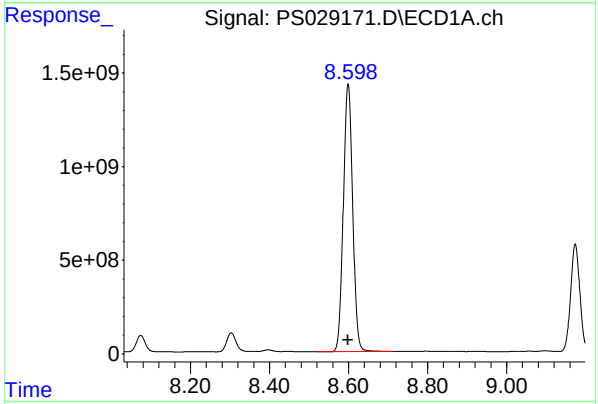
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 02/14/2025
Supervised By :Ankita Jodhani 02/14/2025



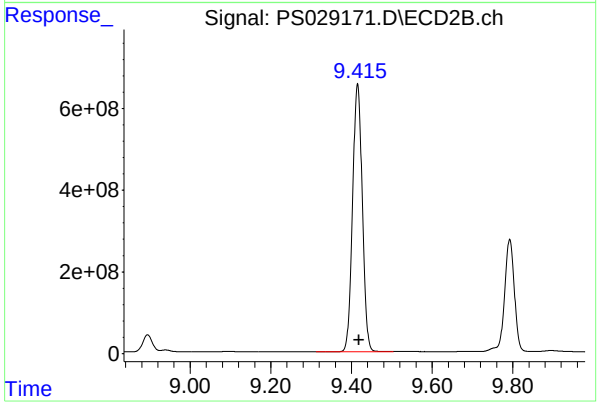
#9 2,4-D

R.T.: 8.895 min
Delta R.T.: -0.002 min
Response: 673795012
Conc: 470.32 ng/ml



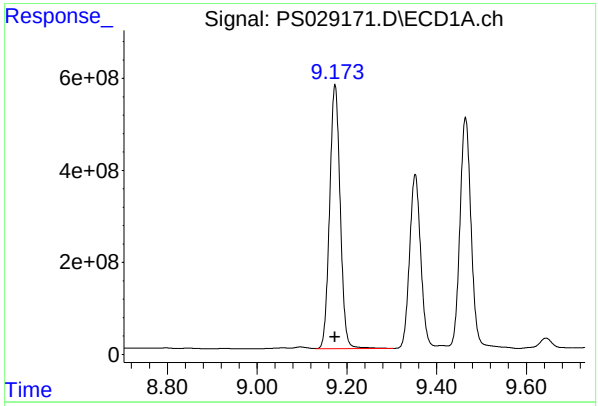
#10 Pentachlorophenol

R.T.: 8.599 min
Delta R.T.: 0.000 min
Response: 23531953629
Conc: 499.05 ng/ml



#10 Pentachlorophenol

R.T.: 9.415 min
Delta R.T.: -0.004 min
Response: 11026973221
Conc: 457.18 ng/ml



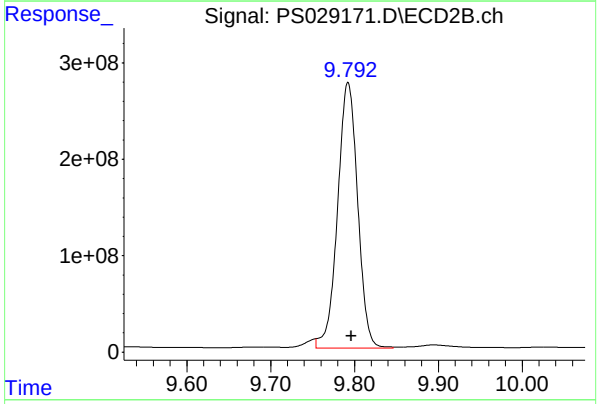
#11 2,4,5-TP (SILVEX)

R.T.: 9.174 min
Delta R.T.: 0.000 mi
Response: 9337298843
Conc: 481.54 ng/m

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMS

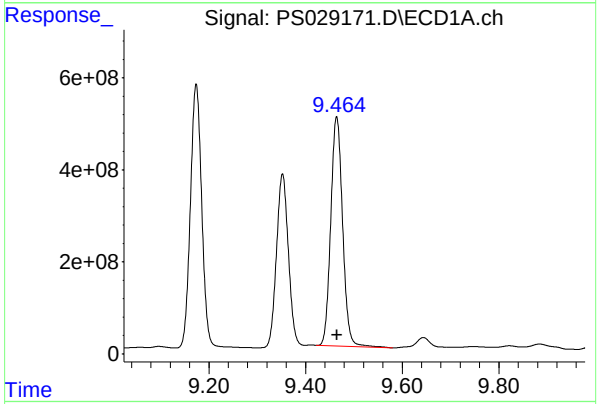
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 02/14/2025
Supervised By :Ankita Jodhani 02/14/2025



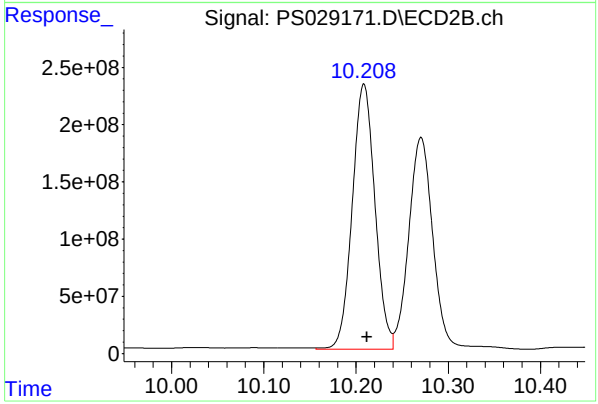
#11 2,4,5-TP (SILVEX)

R.T.: 9.792 min
Delta R.T.: -0.004 min
Response: 4578534493
Conc: 468.72 ng/ml m



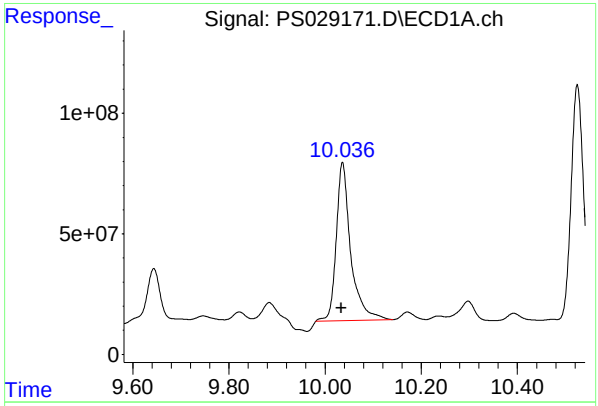
#12 2,4,5-T

R.T.: 9.464 min
Delta R.T.: 0.000 min
Response: 8482348832
Conc: 437.92 ng/ml



#12 2,4,5-T

R.T.: 10.209 min
Delta R.T.: -0.004 min
Response: 3956477973
Conc: 427.16 ng/ml



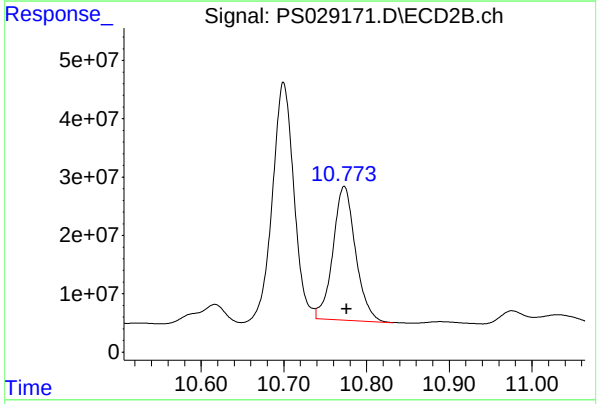
#13 2,4-DB

R.T.: 10.036 min
Delta R.T.: 0.002 mi
Response: 1371812892
Conc: 369.13 ng/m

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMS

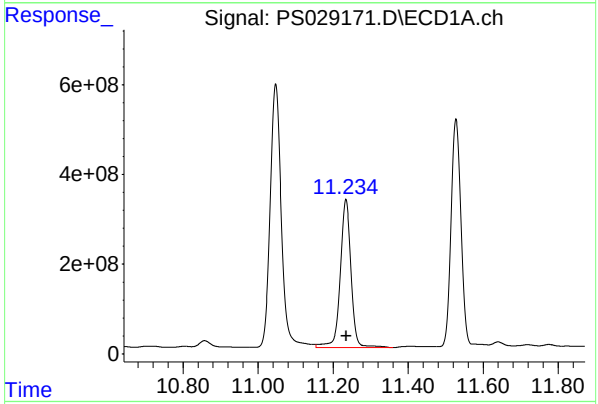
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/14/2025
Supervised By :Ankita Jodhani 02/14/2025



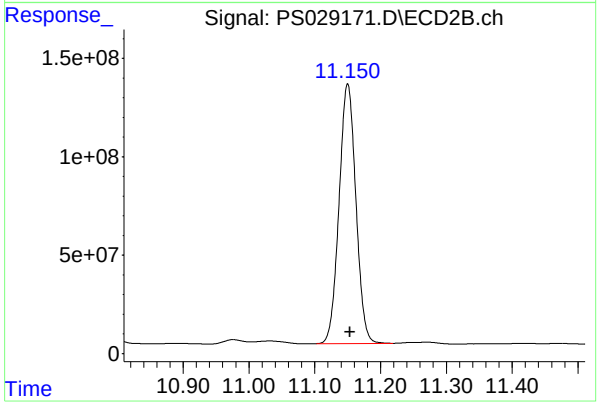
#13 2,4-DB

R.T.: 10.773 min
Delta R.T.: -0.004 min
Response: 436231268
Conc: 459.20 ng/ml m



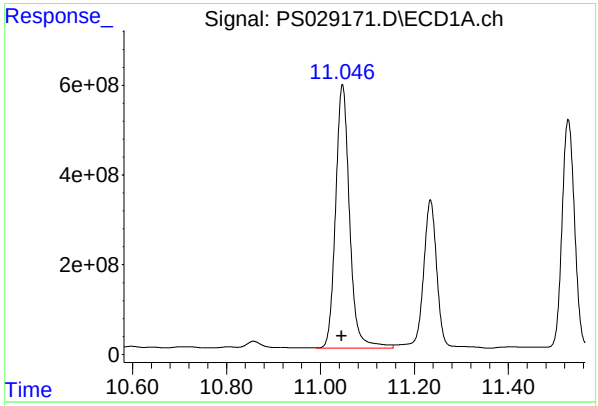
#14 DINOSEB

R.T.: 11.234 min
Delta R.T.: 0.000 min
Response: 6627507264
Conc: 457.05 ng/ml



#14 DINOSEB

R.T.: 11.150 min
Delta R.T.: -0.004 min
Response: 2342599601
Conc: 424.79 ng/ml



#15 Picloram

R.T.: 11.047 min
Delta R.T.: 0.001 min
Response: 12155264016
Conc: 380.42 ng/ml

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMS

Manual Integrations APPROVED

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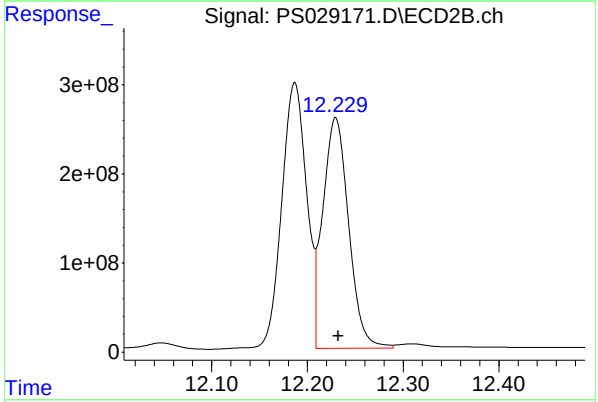
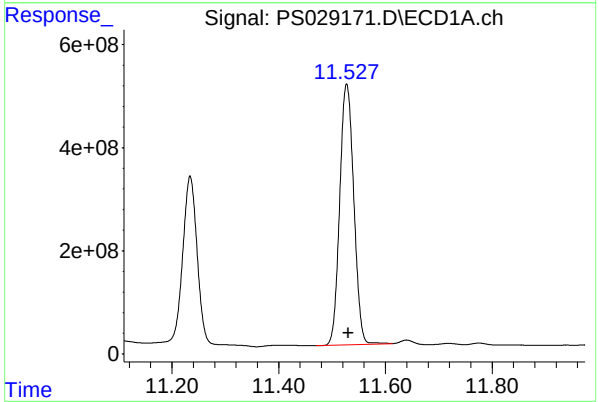


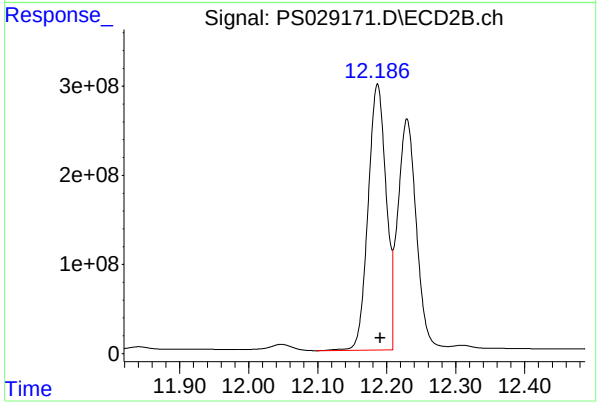
#15 Picloram

R.T.: 12.229 min
Delta R.T.: -0.003 min
Response: 4843343909
Conc: 352.27 ng/ml



#16 DCPA

R.T.: 11.527 min
Delta R.T.: -0.003 min
Response: 9255785711
Conc: 319.21 ng/ml



#16 DCPA

R.T.: 12.187 min
Delta R.T.: -0.004 min
Response: 5437757347
Conc: 440.85 ng/ml

Raw Data: **PS029172.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Weston Solutions	Date Collected:	02/11/25
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	02/11/25
Client Sample ID:	CARBON-WATERMSD	SDG No.:	Q1352
Lab Sample ID:	Q1356-04MSD	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS029172.D	1	02/13/25 10:15	02/14/25 00:12	PB166713

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
94-75-7	2,4-D	48.1		4.90	15.0	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	48.2		4.50	15.0	20.0	ug/L
SURROGATES							
19719-28-9	2,4-DCAA	485		32 - 138		97%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021325\
Data File : PS029172.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2025 00:12
Operator : AR\AJ
Sample : Q1356-04MSD
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMSD

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 02/14/2025
Supervised By :Ankita Jodhani 02/14/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 14 01:26:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021225.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 09:17:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	7.187	7.661	1339.8E6	496.2E6	484.772m	468.741
		Target Compounds						
1)	T	Dalapon	2.611	2.659	1551.6E6	989.0E6	490.527	522.363
2)	T	3,5-DICHL...	6.366	6.630	1843.0E6	661.0E6	465.192	432.033
3)	T	4-Nitroph...	6.985	7.192	700.6E6	356.5E6	410.920	411.082
5)	T	DICAMBA	7.372	7.857	5138.4E6	2320.8E6	426.710	419.928
6)	T	MCPP	7.551	7.960	287.0E6	106.2E6	41.428	43.042
7)	T	MCPA	7.699	8.200	399.1E6	151.5E6	41.693	43.296
8)	T	DICHLORPROP	8.075	8.568	1368.7E6	641.5E6	433.271	465.856
9)	T	2,4-D	8.303	8.894	1618.4E6	673.3E6	481.076	469.976
10)	T	Pentachlo...	8.599	9.414	23371.0E6	10912.5E6	495.633	452.433
11)	T	2,4,5-TP ...	9.173	9.791	9337.4E6	4582.9E6	481.551	469.164m
12)	T	2,4,5-T	9.464	10.208	8489.7E6	3949.2E6	438.298	426.372
13)	T	2,4-DB	10.036	10.772	1377.6E6	466.0E6	370.692	490.502m#
14)	T	DINOSEB	11.234	11.149	6638.9E6	2344.5E6	457.837	425.142
15)	T	Picloram	11.046	12.228	12237.0E6	4881.6E6	382.977	355.058
16)	T	DCPA	11.527	12.185	9174.7E6	5388.5E6	316.408	436.849 #

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021325\
Data File : PS029172.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2025 00:12
Operator : AR\AJ
Sample : Q1356-04MSD
Misc :
ALS Vial : 18 Sample Multiplier: 1

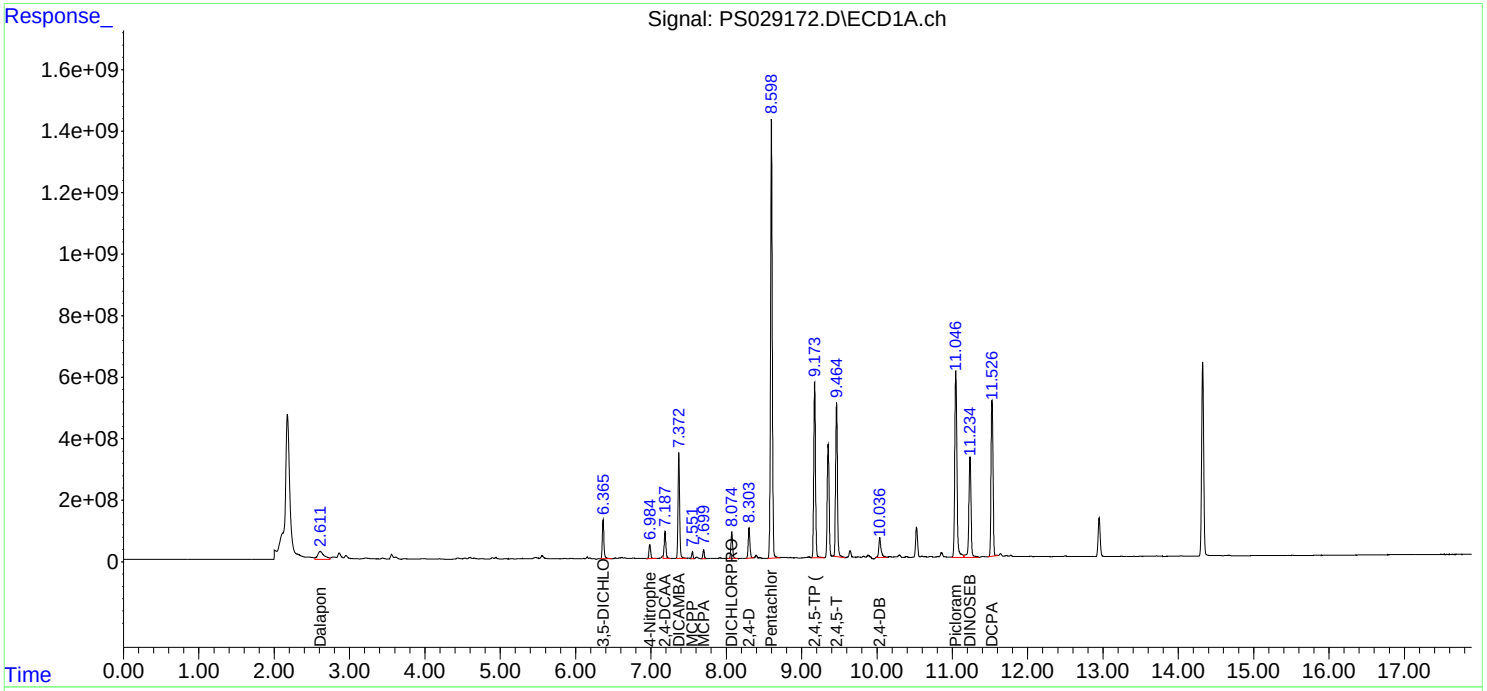
Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMSD

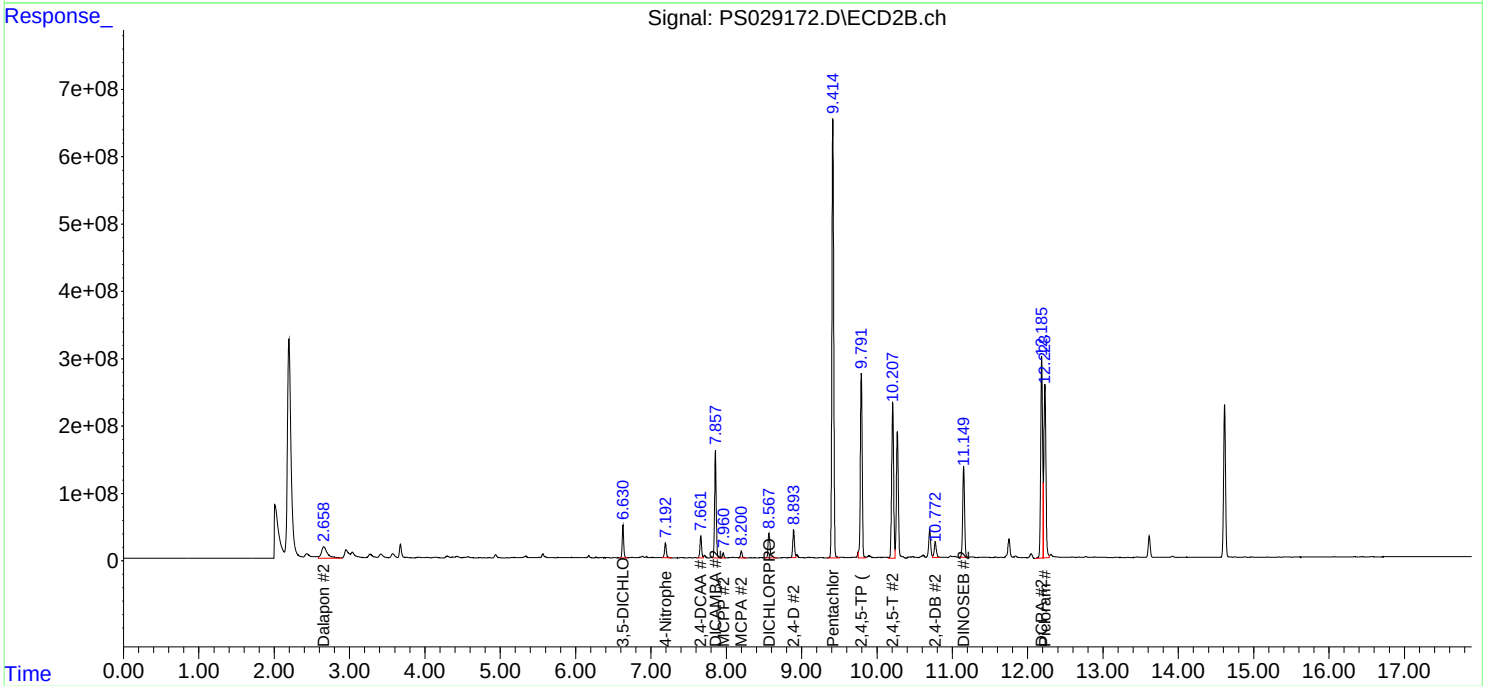
Manual Integrations APPROVED

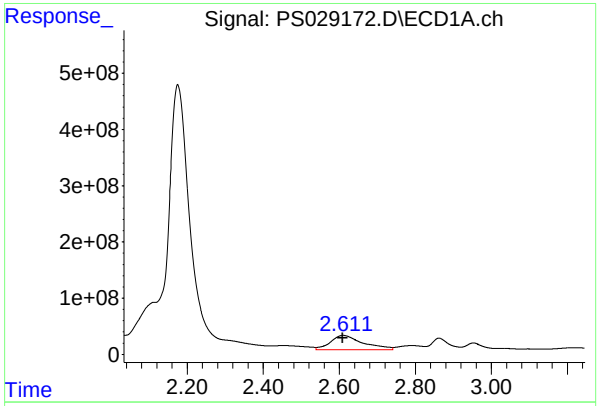
Reviewed By :Abdul Mirza 02/14/2025
Supervised By :Ankita Jodhani 02/14/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 14 01:26:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021225.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 09:17:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm







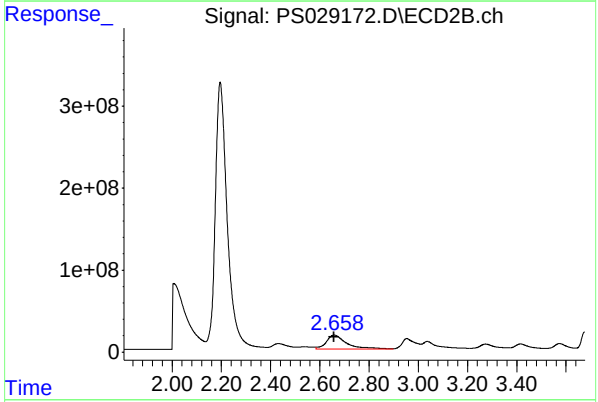
#1 Dalapon

R.T.: 2.611 min
Delta R.T.: 0.002 min
Response: 1551561739
Conc: 490.53 ng/ml

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMSD

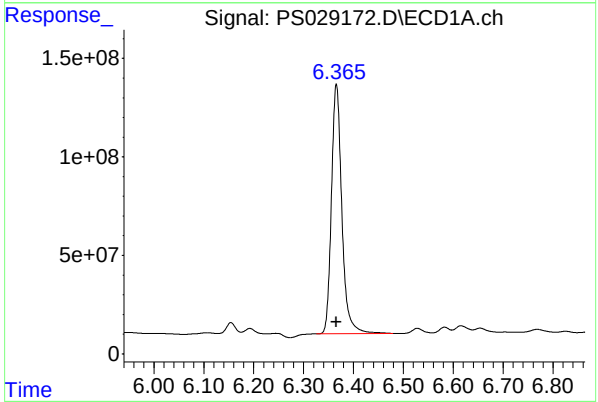
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 02/14/2025
Supervised By :Ankita Jodhani 02/14/2025



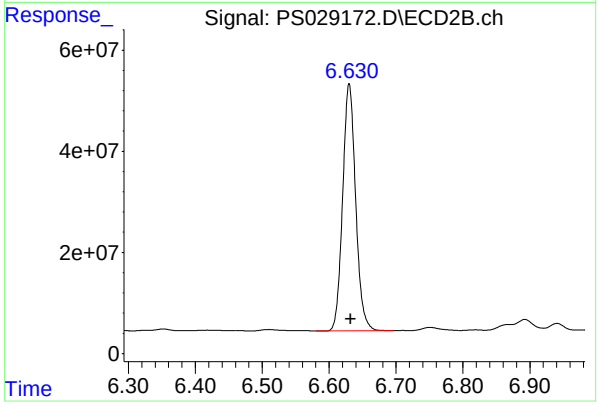
#1 Dalapon

R.T.: 2.659 min
Delta R.T.: 0.000 min
Response: 988989507
Conc: 522.36 ng/ml



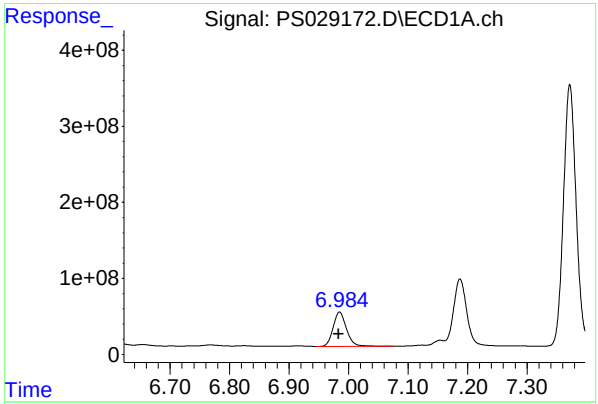
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.366 min
Delta R.T.: 0.000 min
Response: 1842983961
Conc: 465.19 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.630 min
Delta R.T.: -0.002 min
Response: 660952459
Conc: 432.03 ng/ml



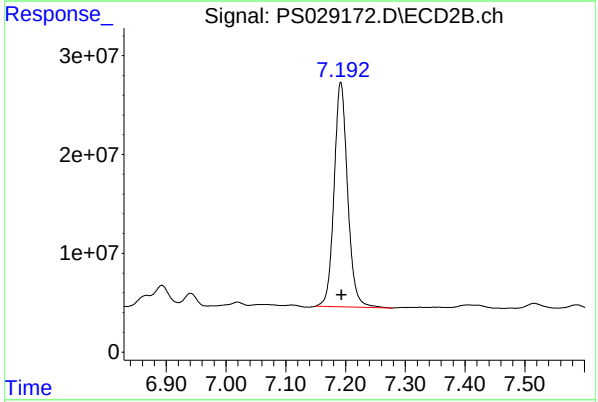
#3 4-Nitrophenol

R.T.: 6.985 min
Delta R.T.: 0.001 mi
Response: 700647228
Conc: 410.92 ng/m

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMSD

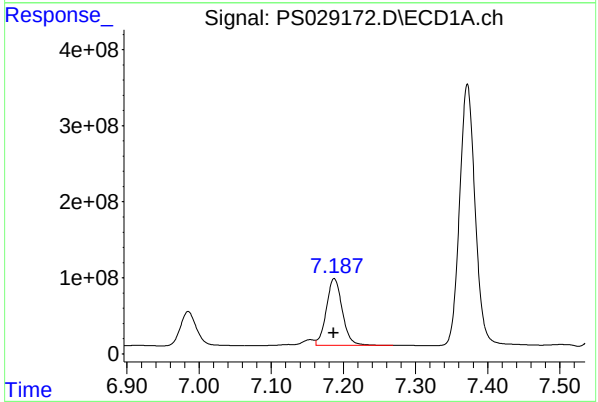
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 02/14/2025
Supervised By :Ankita Jodhani 02/14/2025



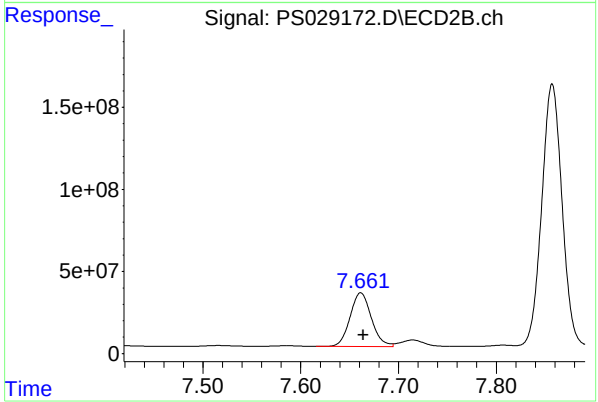
#3 4-Nitrophenol

R.T.: 7.192 min
Delta R.T.: -0.001 min
Response: 356531174
Conc: 411.08 ng/ml



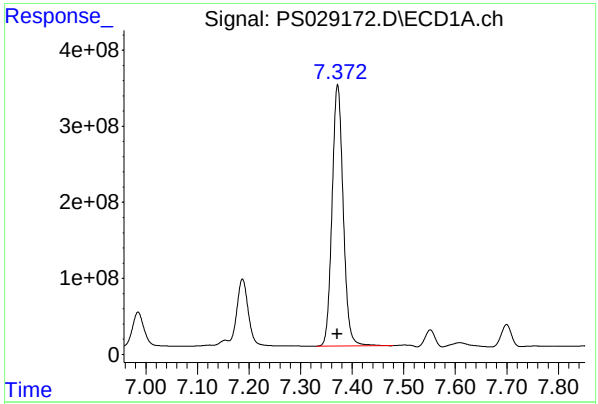
#4 2,4-DCAA

R.T.: 7.187 min
Delta R.T.: 0.000 min
Response: 1339840321
Conc: 484.77 ng/ml m



#4 2,4-DCAA

R.T.: 7.661 min
Delta R.T.: -0.003 min
Response: 496159658
Conc: 468.74 ng/ml



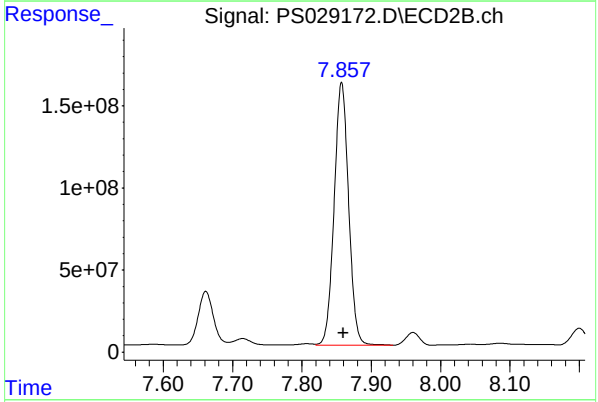
#5 DICAMBA

R.T.: 7.372 min
Delta R.T.: 0.000 min
Response: 5138421683
Conc: 426.71 ng/ml

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMSD

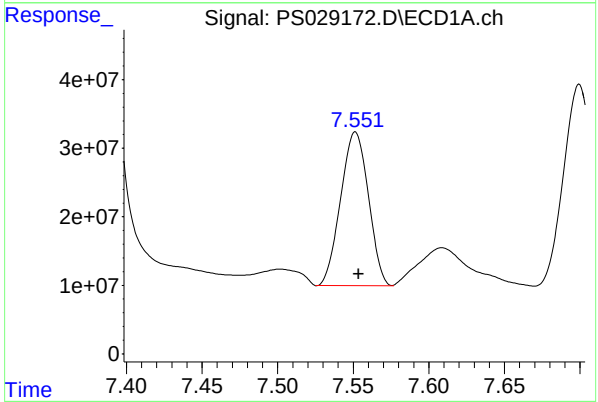
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 02/14/2025
Supervised By :Ankita Jodhani 02/14/2025



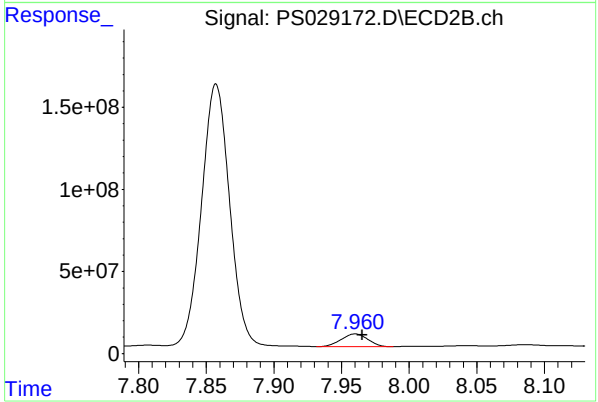
#5 DICAMBA

R.T.: 7.857 min
Delta R.T.: -0.002 min
Response: 2320772824
Conc: 419.93 ng/ml



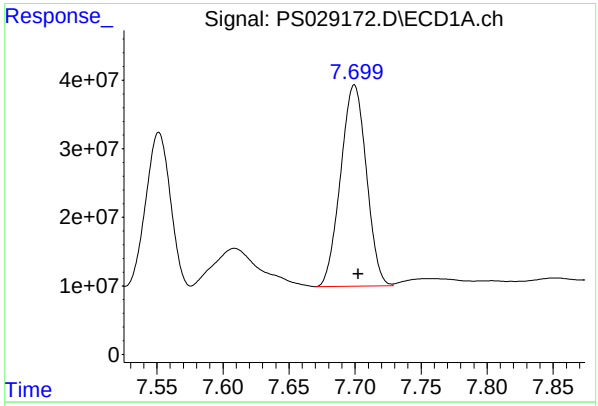
#6 MCPP

R.T.: 7.551 min
Delta R.T.: -0.002 min
Response: 287028617
Conc: 41.43 ug/ml



#6 MCPP

R.T.: 7.960 min
Delta R.T.: -0.005 min
Response: 106193067
Conc: 43.04 ug/ml



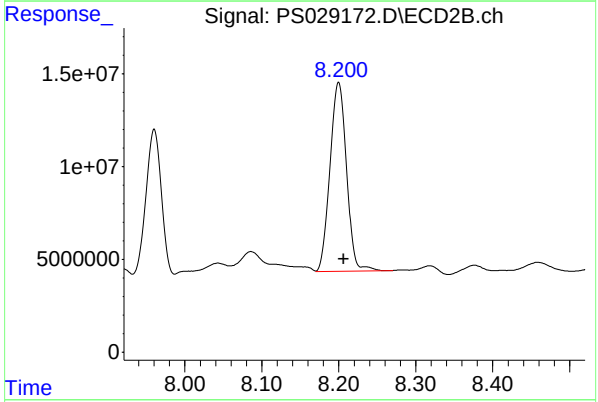
#7 MCPA

R.T.: 7.699 min
Delta R.T.: -0.003 min
Response: 399090910
Conc: 41.69 ug/ml

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMSD

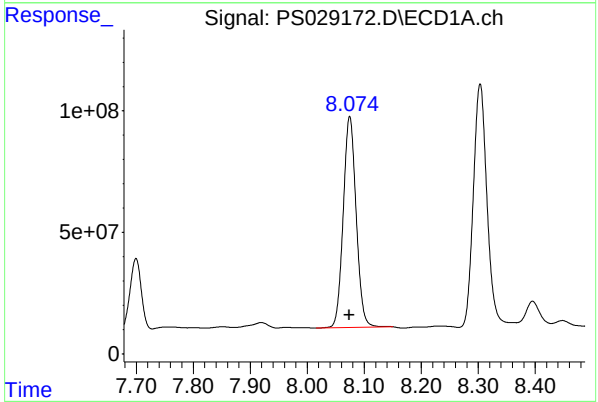
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 02/14/2025
Supervised By :Ankita Jodhani 02/14/2025



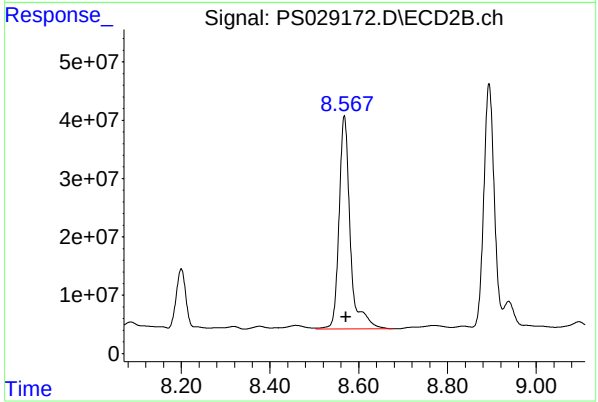
#7 MCPA

R.T.: 8.200 min
Delta R.T.: -0.006 min
Response: 151465006
Conc: 43.30 ug/ml



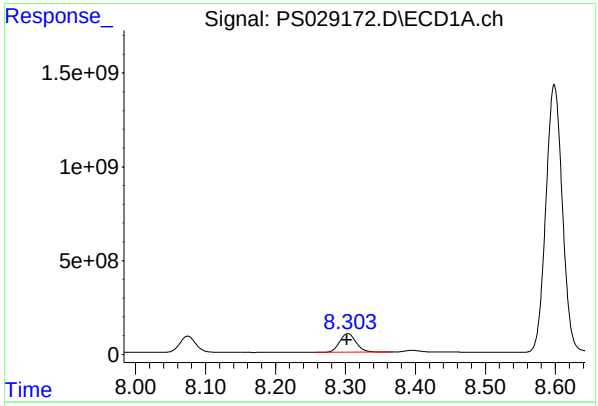
#8 DICHLORPROP

R.T.: 8.075 min
Delta R.T.: 0.000 min
Response: 1368731139
Conc: 433.27 ng/ml



#8 DICHLORPROP

R.T.: 8.568 min
Delta R.T.: -0.003 min
Response: 641525589
Conc: 465.86 ng/ml



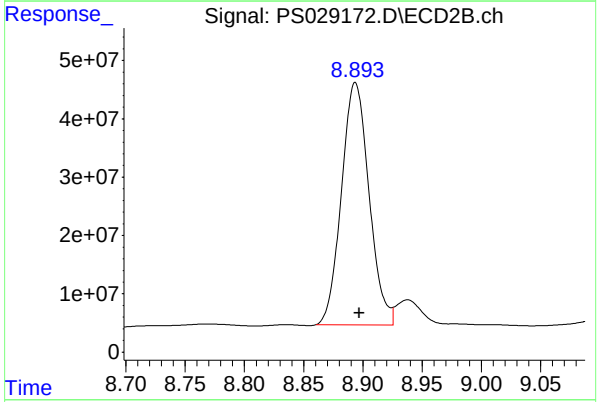
#9 2,4-D

R.T.: 8.303 min
Delta R.T.: 0.001 min
Response: 1618383975
Conc: 481.08 ng/ml

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMSD

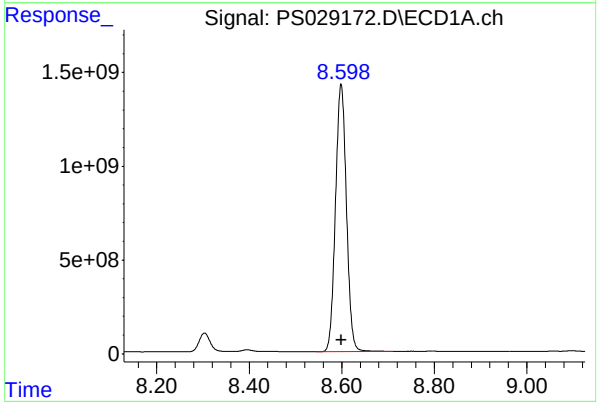
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 02/14/2025
Supervised By :Ankita Jodhani 02/14/2025



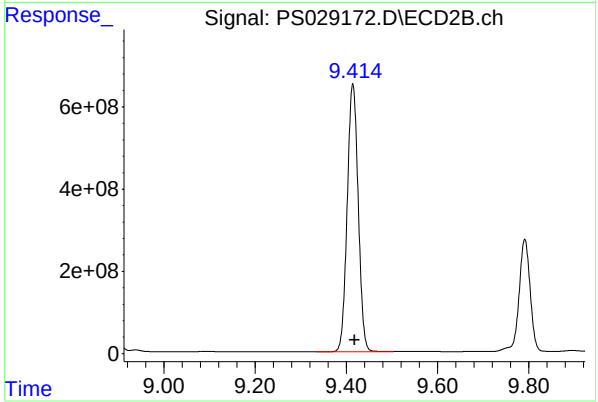
#9 2,4-D

R.T.: 8.894 min
Delta R.T.: -0.003 min
Response: 673300762
Conc: 469.98 ng/ml



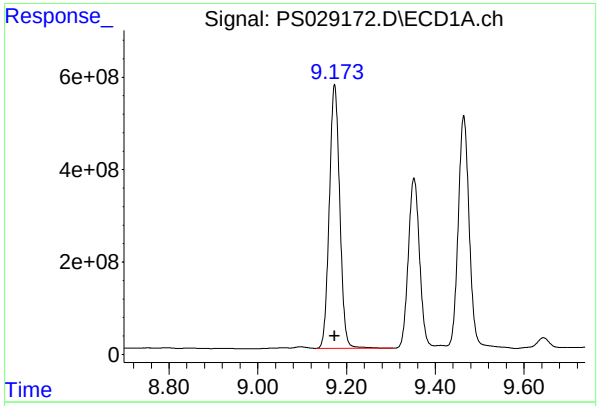
#10 Pentachlorophenol

R.T.: 8.599 min
Delta R.T.: 0.000 min
Response: 23371049991
Conc: 495.63 ng/ml



#10 Pentachlorophenol

R.T.: 9.414 min
Delta R.T.: -0.005 min
Response: 10912526099
Conc: 452.43 ng/ml



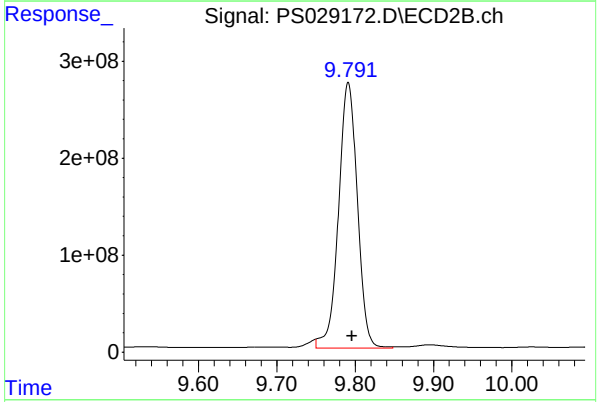
#11 2,4,5-TP (SILVEX)

R.T.: 9.173 min
Delta R.T.: 0.000 mi
Response: 9337446653
Conc: 481.55 ng/m

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMSD

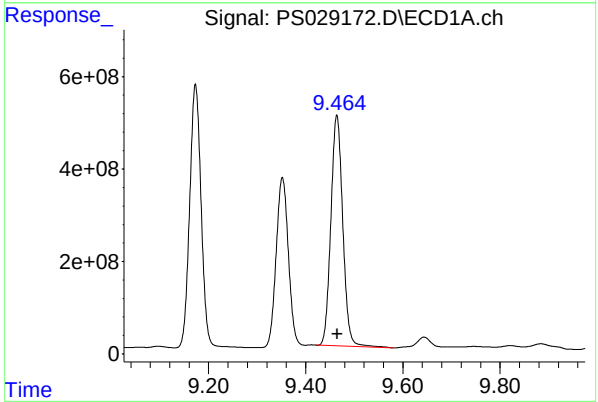
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 02/14/2025
Supervised By :Ankita Jodhani 02/14/2025



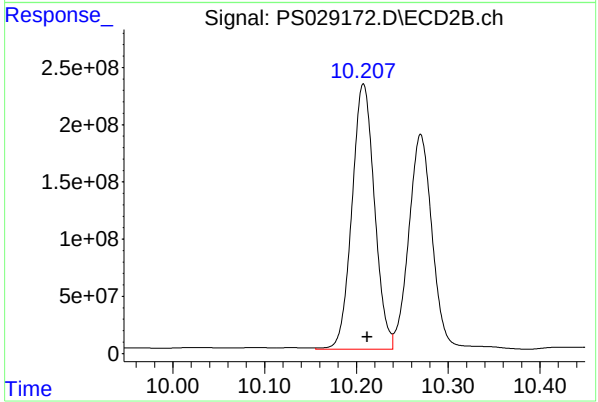
#11 2,4,5-TP (SILVEX)

R.T.: 9.791 min
Delta R.T.: -0.005 min
Response: 4582889358
Conc: 469.16 ng/ml m



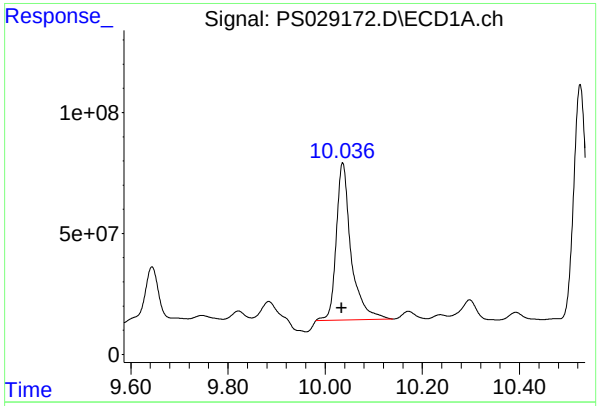
#12 2,4,5-T

R.T.: 9.464 min
Delta R.T.: 0.000 min
Response: 8489680473
Conc: 438.30 ng/ml



#12 2,4,5-T

R.T.: 10.208 min
Delta R.T.: -0.004 min
Response: 3949176970
Conc: 426.37 ng/ml



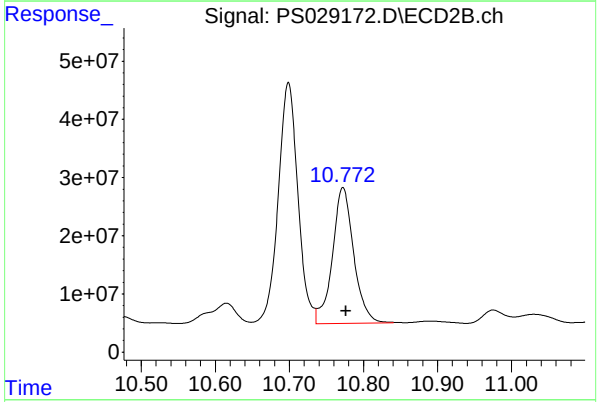
#13 2,4-DB

R.T.: 10.036 min
Delta R.T.: 0.002 mi
Response: 1377599345
Conc: 370.69 ng/m

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMSD

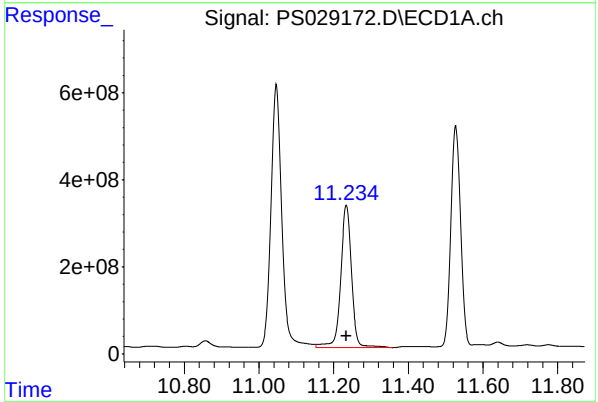
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/14/2025
Supervised By :Ankita Jodhani 02/14/2025



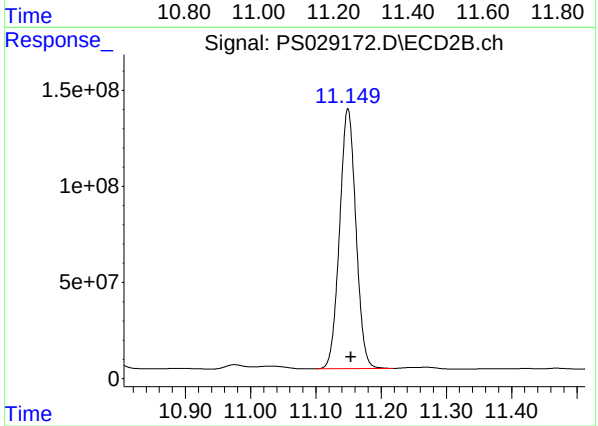
#13 2,4-DB

R.T.: 10.772 min
Delta R.T.: -0.004 min
Response: 465972326
Conc: 490.50 ng/ml m



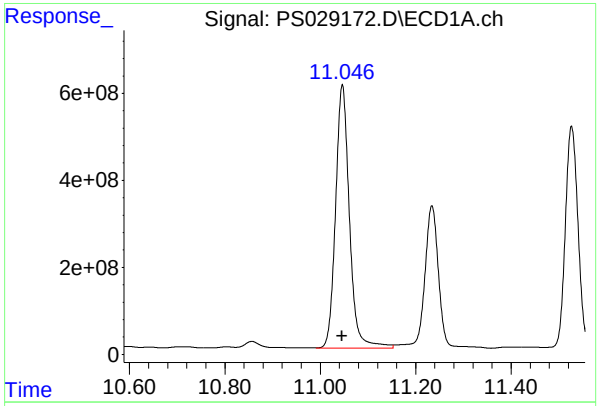
#14 DINOSEB

R.T.: 11.234 min
Delta R.T.: 0.000 min
Response: 6638913437
Conc: 457.84 ng/ml



#14 DINOSEB

R.T.: 11.149 min
Delta R.T.: -0.004 min
Response: 2344525158
Conc: 425.14 ng/ml



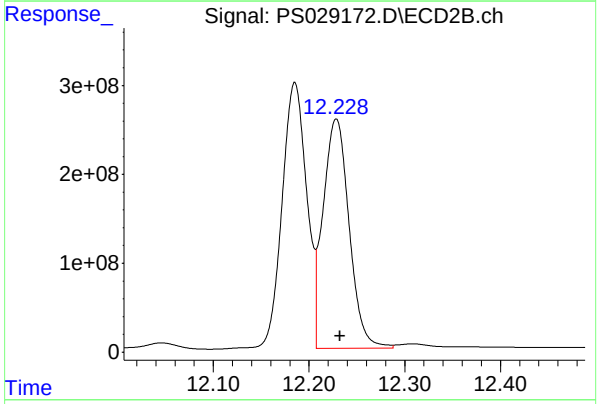
#15 Picloram

R.T.: 11.046 min
Delta R.T.: 0.000 min
Response: 12237040857
Conc: 382.98 ng/ml

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMSD

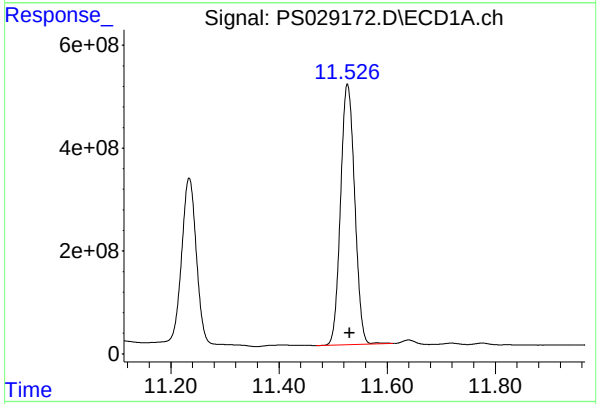
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 02/14/2025
Supervised By :Ankita Jodhani 02/14/2025



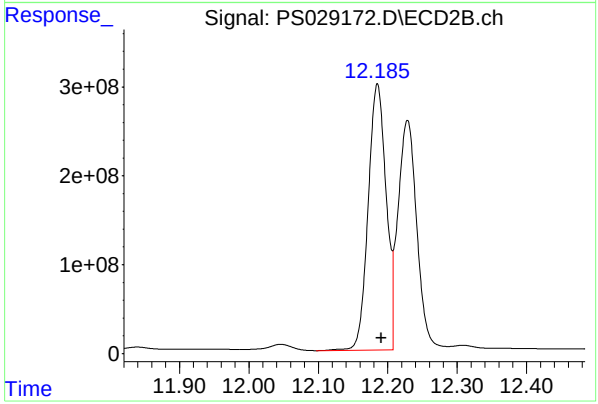
#15 Picloram

R.T.: 12.228 min
Delta R.T.: -0.004 min
Response: 4881642726
Conc: 355.06 ng/ml



#16 DCPA

R.T.: 11.527 min
Delta R.T.: -0.004 min
Response: 9174665199
Conc: 316.41 ng/ml



#16 DCPA

R.T.: 12.185 min
Delta R.T.: -0.006 min
Response: 5388459231
Conc: 436.85 ng/ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	ps021125	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	ps021325	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1356-04MS	PS029171.D	2,4,5-TP (SILVEX) #2	Abdul	2/14/2025 10:36:21 AM	Ankita	2/14/2025 1:50:10	Peak Integrated by Software
Q1356-04MS	PS029171.D	2,4-DB #2	Abdul	2/14/2025 10:36:21 AM	Ankita	2/14/2025 1:50:10	Peak Integrated by Software
Q1356-04MS	PS029171.D	2,4-DCAA	Abdul	2/14/2025 10:36:21 AM	Ankita	2/14/2025 1:50:10	Peak Integrated by Software
Q1356-04MSD	PS029172.D	2,4,5-TP (SILVEX) #2	Abdul	2/14/2025 10:36:24 AM	Ankita	2/14/2025 1:50:12	Peak Integrated by Software
Q1356-04MSD	PS029172.D	2,4-DB #2	Abdul	2/14/2025 10:36:24 AM	Ankita	2/14/2025 1:50:12	Peak Integrated by Software
Q1356-04MSD	PS029172.D	2,4-DCAA	Abdul	2/14/2025 10:36:24 AM	Ankita	2/14/2025 1:50:12	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS021125

Review By	Abdul	Review On	2/12/2025 1:30:07 PM		
Supervise By	Ankita	Supervise On	2/12/2025 2:05:27 PM		
SubDirectory	PS021125	HP Acquire Method		HP Processing Method	ps021125 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS029116.D	11 Feb 2025 17:08	AR\AJ	Ok
2	I.BLK	PS029117.D	11 Feb 2025 17:32	AR\AJ	Ok
3	HSTDICC200	PS029118.D	11 Feb 2025 17:56	AR\AJ	Ok
4	HSTDICC500	PS029119.D	11 Feb 2025 18:20	AR\AJ	Ok
5	HSTDICC750	PS029120.D	11 Feb 2025 18:44	AR\AJ	Ok
6	HSTDICC1000	PS029121.D	11 Feb 2025 19:08	AR\AJ	Ok
7	HSTDICC1500	PS029122.D	11 Feb 2025 19:32	AR\AJ	Ok
8	HSTDICV750	PS029123.D	11 Feb 2025 19:56	AR\AJ	Ok
9	I.BLK	PS029124.D	11 Feb 2025 20:20	AR\AJ	Ok
10	HSTDCCC750	PS029125.D	11 Feb 2025 20:43	AR\AJ	Ok
11	PB166662BL	PS029126.D	11 Feb 2025 21:07	AR\AJ	Ok
12	PB166662BS	PS029127.D	11 Feb 2025 21:31	AR\AJ	Ok
13	Q1344-01	PS029128.D	11 Feb 2025 21:55	AR\AJ	Ok
14	Q1344-03	PS029129.D	11 Feb 2025 22:19	AR\AJ	Ok
15	I.BLK	PS029130.D	11 Feb 2025 22:43	AR\AJ	Ok
16	HSTDCCC750	PS029131.D	11 Feb 2025 23:07	AR\AJ	Ok
17	Q1343-01	PS029132.D	11 Feb 2025 23:31	AR\AJ	Ok
18	Q1343-05	PS029133.D	11 Feb 2025 23:55	AR\AJ	Ok
19	Q1343-09	PS029134.D	12 Feb 2025 00:19	AR\AJ	Ok
20	Q1343-13	PS029135.D	12 Feb 2025 00:43	AR\AJ	Ok
21	Q1343-13MS	PS029136.D	12 Feb 2025 01:07	AR\AJ	Ok,M

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS021125

Review By	Abdul	Review On	2/12/2025 1:30:07 PM		
Supervise By	Ankita	Supervise On	2/12/2025 2:05:27 PM		
SubDirectory	PS021125	HP Acquire Method		HP Processing Method	ps021125 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1343-13MSD	PS029137.D	12 Feb 2025 01:31	AR\AJ	Ok,M
23	Q1343-17	PS029138.D	12 Feb 2025 01:55	AR\AJ	Ok
24	Q1346-01	PS029139.D	12 Feb 2025 02:19	AR\AJ	Ok
25	I.BLK	PS029140.D	12 Feb 2025 02:43	AR\AJ	Ok
26	HSTDCCC750	PS029141.D	12 Feb 2025 03:55	AR\AJ	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS021325

Review By	Abdul	Review On	2/14/2025 1:50:53 PM		
Supervise By	Ankita	Supervise On	2/14/2025 1:51:12 PM		
SubDirectory	PS021325	HP Acquire Method		HP Processing Method	ps021125 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS029151.D	13 Feb 2025 10:23	AR\AJ	Ok
2	I.BLK	PS029152.D	13 Feb 2025 10:47	AR\AJ	Ok
3	HSTDCCC750	PS029153.D	13 Feb 2025 12:16	AR\AJ	Ok
4	PB166710BL	PS029154.D	13 Feb 2025 16:12	AR\AJ	Ok
5	PB166710BS	PS029155.D	13 Feb 2025 16:36	AR\AJ	Ok
6	Q1353-01	PS029156.D	13 Feb 2025 17:00	AR\AJ	Ok,M
7	Q1353-01MS	PS029157.D	13 Feb 2025 17:24	AR\AJ	Ok,M
8	Q1353-01MSD	PS029158.D	13 Feb 2025 17:48	AR\AJ	Ok,M
9	I.BLK	PS029159.D	13 Feb 2025 18:12	AR\AJ	Ok
10	HSTDCCC750	PS029160.D	13 Feb 2025 18:36	AR\AJ	Ok
11	PB166713BL	PS029161.D	13 Feb 2025 19:24	AR\AJ	Ok
12	PB166713BS	PS029162.D	13 Feb 2025 19:48	AR\AJ	Ok
13	PB166700TB	PS029163.D	13 Feb 2025 20:12	AR\AJ	Ok
14	PB166702TB	PS029164.D	13 Feb 2025 20:36	AR\AJ	Ok,M
15	Q1352-02	PS029165.D	13 Feb 2025 21:00	AR\AJ	Ok
16	I.BLK	PS029166.D	13 Feb 2025 21:24	AR\AJ	Ok
17	HSTDCCC750	PS029167.D	13 Feb 2025 21:48	AR\AJ	Ok
18	Q1356-01	PS029168.D	13 Feb 2025 22:36	AR\AJ	Ok,M
19	Q1356-03	PS029169.D	13 Feb 2025 23:00	AR\AJ	Ok,M
20	Q1356-04	PS029170.D	13 Feb 2025 23:24	AR\AJ	Ok
21	Q1356-04MS	PS029171.D	13 Feb 2025 23:48	AR\AJ	Ok,M

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS021325

Review By	Abdul	Review On	2/14/2025 1:50:53 PM		
Supervise By	Ankita	Supervise On	2/14/2025 1:51:12 PM		
SubDirectory	PS021325	HP Acquire Method		HP Processing Method	ps021125 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1356-04MSD	PS029172.D	14 Feb 2025 00:12	AR\AJ	Ok,M
23	Q1356-05	PS029173.D	14 Feb 2025 00:36	AR\AJ	Ok
24	Q1356-06	PS029174.D	14 Feb 2025 01:00	AR\AJ	Ok
25	Q1356-07	PS029175.D	14 Feb 2025 01:24	AR\AJ	Ok
26	Q1356-08	PS029176.D	14 Feb 2025 01:48	AR\AJ	Ok
27	Q1356-09	PS029177.D	14 Feb 2025 02:12	AR\AJ	Ok
28	I.BLK	PS029178.D	14 Feb 2025 02:36	AR\AJ	Ok
29	HSTDCCC750	PS029179.D	14 Feb 2025 03:00	AR\AJ	Ok

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS021125

Review By	Abdul	Review On	2/12/2025 1:30:07 PM		
Supervise By	Ankita	Supervise On	2/12/2025 2:05:27 PM		
SubDirectory	PS021125	HP Acquire Method		HP Processing Method	ps021125 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS029116.D	11 Feb 2025 17:08		AR\AJ	Ok
2	I.BLK	I.BLK	PS029117.D	11 Feb 2025 17:32		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS029118.D	11 Feb 2025 17:56		AR\AJ	Ok
4	HSTDICC500	HSTDICC500	PS029119.D	11 Feb 2025 18:20		AR\AJ	Ok
5	HSTDICC750	HSTDICC750	PS029120.D	11 Feb 2025 18:44	Method fail for comp 10	AR\AJ	Ok
6	HSTDICC1000	HSTDICC1000	PS029121.D	11 Feb 2025 19:08		AR\AJ	Ok
7	HSTDICC1500	HSTDICC1500	PS029122.D	11 Feb 2025 19:32		AR\AJ	Ok
8	HSTDICV750	ICVPS021125	PS029123.D	11 Feb 2025 19:56		AR\AJ	Ok
9	I.BLK	I.BLK	PS029124.D	11 Feb 2025 20:20		AR\AJ	Ok
10	HSTDCCC750	HSTDCCC750	PS029125.D	11 Feb 2025 20:43		AR\AJ	Ok
11	PB166662BL	PB166662BL	PS029126.D	11 Feb 2025 21:07		AR\AJ	Ok
12	PB166662BS	PB166662BS	PS029127.D	11 Feb 2025 21:31		AR\AJ	Ok
13	Q1344-01	SOIL-1	PS029128.D	11 Feb 2025 21:55		AR\AJ	Ok
14	Q1344-03	SOIL-2	PS029129.D	11 Feb 2025 22:19		AR\AJ	Ok
15	I.BLK	I.BLK	PS029130.D	11 Feb 2025 22:43		AR\AJ	Ok
16	HSTDCCC750	HSTDCCC750	PS029131.D	11 Feb 2025 23:07		AR\AJ	Ok
17	Q1343-01	WC-9	PS029132.D	11 Feb 2025 23:31		AR\AJ	Ok
18	Q1343-05	WC-10	PS029133.D	11 Feb 2025 23:55		AR\AJ	Ok

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS021125

Review By	Abdul	Review On	2/12/2025 1:30:07 PM		
Supervise By	Ankita	Supervise On	2/12/2025 2:05:27 PM		
SubDirectory	PS021125	HP Acquire Method		HP Processing Method	ps021125 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1343-09	WC-7	PS029134.D	12 Feb 2025 00:19		AR\AJ	Ok
20	Q1343-13	WC-13	PS029135.D	12 Feb 2025 00:43		AR\AJ	Ok
21	Q1343-13MS	WC-13MS	PS029136.D	12 Feb 2025 01:07	Recovery fail some comp	AR\AJ	Ok,M
22	Q1343-13MSD	WC-13MSD	PS029137.D	12 Feb 2025 01:31	Recovery fail some comp	AR\AJ	Ok,M
23	Q1343-17	WC-14	PS029138.D	12 Feb 2025 01:55		AR\AJ	Ok
24	Q1346-01	SOIL-COMP	PS029139.D	12 Feb 2025 02:19		AR\AJ	Ok
25	I.BLK	I.BLK	PS029140.D	12 Feb 2025 02:43		AR\AJ	Ok
26	HSTDCCC750	HSTDCCC750	PS029141.D	12 Feb 2025 03:55		AR\AJ	Ok

M : Manual Integration

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Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS021325

Review By	Abdul	Review On	2/14/2025 1:50:53 PM		
Supervise By	Ankita	Supervise On	2/14/2025 1:51:12 PM		
SubDirectory	PS021325	HP Acquire Method		HP Processing Method	ps021125 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS029151.D	13 Feb 2025 10:23		AR\AJ	Ok
2	I.BLK	I.BLK	PS029152.D	13 Feb 2025 10:47		AR\AJ	Ok
3	HSTDCCC750	HSTDCCC750	PS029153.D	13 Feb 2025 12:16		AR\AJ	Ok
4	PB166710BL	PB166710BL	PS029154.D	13 Feb 2025 16:12		AR\AJ	Ok
5	PB166710BS	PB166710BS	PS029155.D	13 Feb 2025 16:36		AR\AJ	Ok
6	Q1353-01	346	PS029156.D	13 Feb 2025 17:00		AR\AJ	Ok,M
7	Q1353-01MS	346MS	PS029157.D	13 Feb 2025 17:24	recovery fail for some comp	AR\AJ	Ok,M
8	Q1353-01MSD	346MSD	PS029158.D	13 Feb 2025 17:48	recovery fail for some comp , RPD fail for dalpon	AR\AJ	Ok,M
9	I.BLK	I.BLK	PS029159.D	13 Feb 2025 18:12		AR\AJ	Ok
10	HSTDCCC750	HSTDCCC750	PS029160.D	13 Feb 2025 18:36		AR\AJ	Ok
11	PB166713BL	PB166713BL	PS029161.D	13 Feb 2025 19:24		AR\AJ	Ok
12	PB166713BS	PB166713BS	PS029162.D	13 Feb 2025 19:48		AR\AJ	Ok
13	PB166700TB	PB166700TB	PS029163.D	13 Feb 2025 20:12		AR\AJ	Ok
14	PB166702TB	PB166702TB	PS029164.D	13 Feb 2025 20:36		AR\AJ	Ok,M
15	Q1352-02	TAP-IDW-SOIL-021025	PS029165.D	13 Feb 2025 21:00		AR\AJ	Ok
16	I.BLK	I.BLK	PS029166.D	13 Feb 2025 21:24		AR\AJ	Ok
17	HSTDCCC750	HSTDCCC750	PS029167.D	13 Feb 2025 21:48		AR\AJ	Ok

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Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS021325

Review By	Abdul	Review On	2/14/2025 1:50:53 PM		
Supervise By	Ankita	Supervise On	2/14/2025 1:51:12 PM		
SubDirectory	PS021325	HP Acquire Method		HP Processing Method	ps021125 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q1356-01	CARBON-SOLID	PS029168.D	13 Feb 2025 22:36		AR\AJ	Ok,M
19	Q1356-03	SOIL-PILE	PS029169.D	13 Feb 2025 23:00		AR\AJ	Ok,M
20	Q1356-04	CARBON-WATER	PS029170.D	13 Feb 2025 23:24		AR\AJ	Ok
21	Q1356-04MS	CARBON-WATERMS	PS029171.D	13 Feb 2025 23:48		AR\AJ	Ok,M
22	Q1356-04MSD	CARBON-WATERMSD	PS029172.D	14 Feb 2025 00:12		AR\AJ	Ok,M
23	Q1356-05	CARBON-FB	PS029173.D	14 Feb 2025 00:36		AR\AJ	Ok
24	Q1356-06	WATER-A	PS029174.D	14 Feb 2025 01:00		AR\AJ	Ok
25	Q1356-07	WATER-B	PS029175.D	14 Feb 2025 01:24		AR\AJ	Ok
26	Q1356-08	WATER-FB	PS029176.D	14 Feb 2025 01:48		AR\AJ	Ok
27	Q1356-09	SOIL-FB	PS029177.D	14 Feb 2025 02:12		AR\AJ	Ok
28	I.BLK	I.BLK	PS029178.D	14 Feb 2025 02:36		AR\AJ	Ok
29	HSTDCCC750	HSTDCCC750	PS029179.D	14 Feb 2025 03:00		AR\AJ	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB166700

SOP ID : M1311-TCLP-15

SDG No : N/A

Start Prep Date : 02/12/2025 **Time :** 14:00

Weigh By : JP

End Prep Date : 02/13/2025 **Time :** 07:15

Balance ID : WC SC-7

Combination Ratio : 20

pH Meter ID : WC PH METER-1

ZHE Cleaning Batch : N/A

Extraction By : JP

Initial Room Temperature: 23 °C

Filter By : JP

Final Room Temperature: 22 °C

Pippete ID : WC

TCLP Technician Signature : JP

Tumbler ID : T-1

Supervisor By : JC

TCLP Filter ID : 115525

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP110801
HCL-TCLP,1N	N/A	WP110803
HNO3-TCLP,1N	N/A	WP110804
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1941,W1942	W3166,W1938,W1939,W1940,
1 Liter Amber	N/A	90424-08
120ml Plastic bottle	N/A	405130101
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 checked,30 rpm. Partial size reduction in not required. p1356-03 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
02/13/25 0830	JP TCLP Room	SGB. / Ext
	Preparation Group	**Analysis Group** Metals

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB166700

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB166700TB	LEB700	06	N/A	2000	N/A	N/A	N/A	4.94	1.5	T-1
Q1288-08	HR-04-020425	01	100.02	2000	N/A	N/A	N/A	6.2	1.0	T-1
Q1352-02	TAP-IDW-SOIL-021025	02	100.03	2000	N/A	N/A	N/A	8.2	1.5	T-1
Q1353-02	346	03	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q1356-01	CARBON-SOLID	04	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1356-03	SOIL-PILE	05	100.04	2000	N/A	N/A	N/A	6.0	1.0	T-1

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB166700TB	LEB700	N/A	N/A	N/A	N/A	N/A	N/A
Q1288-08	HR-04-020425	N/A	N/A	N/A	N/A	100	N/A
Q1352-02	TAP-IDW-SOIL-021025	N/A	N/A	N/A	N/A	100	N/A
Q1353-02	346	N/A	N/A	N/A	N/A	100	N/A
Q1356-01	CARBON-SOLID	N/A	N/A	N/A	N/A	100	N/A
Q1356-03	SOIL-PILE	N/A	N/A	N/A	N/A	100	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB166700

Hot Block ID : WC S-1 /WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB166700TB	LEB700	N/A	N/A	N/A	N/A	#1	4.94
Q1288-08	HR-04-020425	5.02	96.5	8.6	3.0	#1	4.94
Q1352-02	TAP-IDW-SOIL-021025	5.03	96.5	10.0	4.5	#1	4.94
Q1353-02	346	5.03	96.5	5.8	1.5	#1	4.94
Q1356-01	CARBON-SOLID	5.02	96.5	7.2	2.0	#1	4.94
Q1356-03	SOIL-PILE	5.02	96.5	8.6	3.0	#1	4.94

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp q1356 **WorkList ID :** 187672 **Department :** TCLP Extraction **Date :** 02-12-2025 11:38:51

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1288-08	HR-04-020425	Solid	TCLP Extraction	Cool 4 deg C	PSEG05	D11	02/04/2025	1311
Q1352-02	TAP-IDW-SOIL-021025	Solid	TCLP Extraction	Cool 4 deg C	WEST04	N51	02/10/2025	1311
Q1353-02	346	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N41	02/11/2025	1311
Q1356-01	CARBON-SOLID	Solid	TCLP Extraction	Cool 4 deg C	PSEG04	N51	02/11/2025	1311
Q1356-03	SOIL-PILE	Solid	TCLP Extraction	Cool 4 deg C	PSEG04	N51	02/11/2025	1311

Date/Time 02-12-25 12:30
Raw Sample Received by: JB (WDC)
Raw Sample Relinquished by: RM SM

Date/Time 02-12-25 15:00
Raw Sample Received by: RM SM
Raw Sample Relinquished by: JB (WDC)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB166713

SOP ID: M8151A-Herbicide-22

Clean Up SOP #: N/A

Matrix : Water

Weigh By: EH

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3574

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 4,7

Extraction Start Date : 02/13/2025

Extraction Start Time : 10:15

Extraction End Date : 02/13/2025

Extraction End Time : 16:55

Concentration By: EH

Supervisor By : rajesh

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5/500 PPM	PP24079
Surrogate	1.0ML	5000 PPB	PP24078
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Ether	N/A	E3370
Acidified Na2SO4	N/A	EP2576
NAOH 6N	N/A	EP2553
H2SO4 1:3	N/A	EP2564
NACL	N/A	M4459
ISO OCTANE	N/A	E3554
Diazomethane	N/A	EP2575
Hexane	N/A	E3877
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

pH Adjusted with 6N NaOH>12 prior to Hydrolysis, PH adjusted with cold 12N H2SO4<2 after Hydrolysis, Derivatization procedure is completed and samples are ready to Analyze, 40ml Vial Lot # 03-40BTS721.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
02/13/25	RP (Ext Lab)	R. Pest-/PCB Lab
17:00	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166713

Analytical Method: M8151A-Herbicide-22

Concentration Date: 02/13/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166700TB	PB166700TB	TCLP Herbicide	100	6	RUPESH	ritesh	10			SEP-01
PB166702TB	PB166702TB	TCLP Herbicide	100	6	RUPESH	ritesh	10			2
PB166713BL	HBLK713	TCLP Herbicide	1000	6	RUPESH	ritesh	10			3
PB166713BS	HLCS713	TCLP Herbicide	1000	6	RUPESH	ritesh	10			4
Q1352-02	TAP-IDW-SOIL-021025	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		5
Q1356-01	CARBON-SOLID	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		6
Q1356-03	SOIL-PILE	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		7
Q1356-04	CARBON-WATER	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		8
Q1356-04MS	CARBON-WATERMS	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		9
Q1356-04MSD	CARBON-WATERMSD	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		10
Q1356-05	CARBON-FB	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		11
Q1356-06	WATER-A	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		12
Q1356-07	WATER-B	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		13
Q1356-08	WATER-FB	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		14
Q1356-09	SOIL-FB	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		15

* **Extracts relinquished on the same date as received.**

2/13/25

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB166700

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB166700TB	LEB700	06	N/A	2000	N/A	N/A	N/A	4.94	1.5	T-1
Q1288-08	HR-04-020425	01	100.02	2000	N/A	N/A	N/A	6.2	1.0	T-1
Q1352-02	TAP-IDW-SOIL-021025	02	100.03	2000	N/A	N/A	N/A	8.2	1.5	T-1
Q1353-02	346	03	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q1356-01	CARBON-SOLID	04	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1356-03	SOIL-PILE	05	100.04	2000	N/A	N/A	N/A	6.0	1.0	T-1

02/13/25
08:30

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB166702

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB166702TB	LEB702	N/A	N/A	N/A	N/A	N/A	N/A	4.94	1.0	N/A
Q1356-04	CARBON-WATER	N/A	N/A	N/A	N/A	N/A	N/A	7.0	1.0	N/A
Q1356-05	CARBON-FB	N/A	N/A	N/A	N/A	N/A	N/A	6.0	1.5	N/A
Q1356-06	WATER-A	N/A	N/A	N/A	N/A	N/A	N/A	6.6	1.0	N/A
Q1356-07	WATER-B	N/A	N/A	N/A	N/A	N/A	N/A	7.6	1.5	N/A
Q1356-08	WATER-FB	N/A	N/A	N/A	N/A	N/A	N/A	6.6	1.0	N/A
Q1356-09	SOIL-FB	N/A	N/A	N/A	N/A	N/A	N/A	6.2	1.5	N/A

0211325
08:30

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID : Q1352

Test : TCLP Herbicide

Prepbatch ID : PB166713,

Sequence ID/Qc Batch ID: ps021325,

Standard ID :
EP2553,EP2564,EP2576,PP24061,PP24062,PP24064,PP24065,PP24066,PP24067,PP24068,PP24069,PP24070,PP24078,PP24079,

Chemical ID :
E3370,E3551,E3657,E3826,E3843,M4459,M5173,P10549,P11180,P11181,P12619,P12629,P12686,P12708,P12709,P13506,P13507,P13508,P13509,P13523,P13524,P13525,W3112,

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3884	6 N NAOH	EP2553	10/21/2024	04/21/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 10/21/2024

FROM 1000.00000ml of W3112 + 240.00000gram of E3657 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1762	1:3 H2SO4 Soln	EP2564	11/20/2024	05/20/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/20/2024

FROM 250.00000ml of M5173 + 750.00000ml of W3112 = Final Quantity: 1000.000 ml

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
601	Acidified Sodium Sulphate 2	EP2576	01/06/2025	06/02/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 01/06/2025

FROM 100.00000ml of E3370 + 150.00000ml of M5173 + 3000.00000ml of E3551 = Final Quantity: 3000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1321	2/200 PPM Herb Mega Mix	PP24061	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/27/2024

FROM 0.20000ml of P10549 + 1.00000ml of P11180 + 1.00000ml of P12619 + 1.00000ml of P12629 + 1.00000ml of P12686 + 95.80000ml of E3826 = Final Quantity: 100.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1851	2/200 PPM Herb Mega Mix 2nd Source	PP24062	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/27/2024

FROM 1.00000ml of P11181 + 1.00000ml of P12708 + 1.00000ml of P12709 + 97.00000ml of E3826 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1452	1500 PPB HERB MIX STD	PP24064	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/27/2024

FROM 0.25000ml of E3826 + 0.75000ml of PP24061 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1453	1000 PPB Herb MIX STD	PP24065	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/27/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24061 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1454	750 PPB Herb MIX STD	PP24066	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/27/2024

FROM 0.25000ml of E3826 + 0.75000ml of PP24065 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1455	500 PPB Herb MIX STD	PP24067	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/27/2024

FROM 0.75000ml of E3826 + 0.25000ml of PP24061 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1456	200 PPB Herb MIX STD	PP24068	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/27/2024

FROM 0.90000ml of E3826 + 0.10000ml of PP24061 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1854	1000 PPB HERB MIX ICV STD	PP24069	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/27/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24062 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1691	750 PPB ICV HERB STD	PP24070	11/26/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/27/2024

FROM 0.25000ml of E3826 + 0.75000ml of PP24069 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
60	5000 PPB Herbicide Surg Spike (Free Acid)	PP24078	12/10/2024	06/05/2025	Abdul Mirza	None	None	Ankita Jodhani 12/17/2024

FROM 1.25000ml of P13506 + 1.25000ml of P13507 + 1.25000ml of P13508 + 1.25000ml of P13509 + 195.00000ml of E3843 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1848	5000/500000 PPB Herbicide Spike (Free Acid)	PP24079	12/11/2024	06/05/2025	Abdul Mirza	None	None	Ankita Jodhani 12/17/2024

FROM 0.50000ml of P13525 + 1.00000ml of P13523 + 1.00000ml of P13524 + 47.50000ml of E3843 = Final Quantity: 50.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9244-03 / Ether, Anhydrous, Purified (cs/4x4L)	0000288039	07/17/2025	08/01/2022 / Rajesh	07/13/2022 / Rajesh	E3370

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24G1962003	05/09/2025	11/09/2024 / Rajesh	11/07/2024 / Rajesh	E3826

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	06/05/2025	12/05/2024 / Rajesh	12/05/2024 / Rajesh	E3843

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000237721	04/13/2026	10/03/2022 / Ankita	10/30/2019 / AMANDEEP	M4459

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 /	04/05/2022 / william	M5173

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32254 / Dalapon Methyl Ester, 1000 ug/ml	A0170243	05/26/2025	11/26/2024 / Ankita	04/06/2021 / dhaval	P10549

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane	A0172864	05/26/2025	11/26/2024 / Ankita	11/01/2021 / Abdul	P11180

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane	A0172864	05/26/2025	11/26/2024 / Ankita	11/01/2021 / Abdul	P11181

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32062 / Herbicide Mix, 500/8000, Standard #4 [methyl ester] 200ug/mL, hexane, 1mL/ampul	A0155055	05/26/2025	11/26/2024 / Ankita	07/03/2023 / Abdul	P12619

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32055 / Herbicide Mix, 500/8000, Standard #1 [methyl ester] 200ug/mL, hexane, 1mL/ampul	A192429	05/26/2025	11/26/2024 / Ankita	07/03/2023 / Abdul	P12629

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32059 / Herbicide Mix#3 (Methyl Ester), 20000 ug/ml	A0199844	05/26/2025	11/26/2024 / Ankita	07/24/2023 / Abdul	P12686

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151M / Chlorinated Herbicide Mixtures, Methyl Esters	0006752480	05/26/2025	11/26/2024 / Ankita	08/09/2023 / Abdul	P12708

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151M / Chlorinated Herbicide Mixtures, Methyl Esters	0006752480	05/26/2025	11/26/2024 / Ankita	08/09/2023 / Abdul	P12708

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151M / Chlorinated Herbicide Mixtures, Methyl Esters	0006752480	05/26/2025	11/26/2024 / Ankita	08/09/2023 / Abdul	P12709

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151M / Chlorinated Herbicide Mixtures, Methyl Esters	0006752480	05/26/2025	11/26/2024 / Ankita	08/09/2023 / Abdul	P12709

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0212676	06/10/2025	12/10/2024 / Abdul	08/16/2024 / yogesh	P13506

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0212676	06/10/2025	12/10/2024 / Abdul	08/16/2024 / yogesh	P13507

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0212676	06/10/2025	12/10/2024 / Abdul	08/16/2024 / yogesh	P13508

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0212676	06/10/2025	12/10/2024 / Abdul	08/16/2024 / yogesh	P13509

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006810955	06/11/2025	12/11/2024 / Abdul	09/03/2024 / Abdul	P13523

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006810955	06/11/2025	12/11/2024 / Abdul	09/03/2024 / Abdul	P13523

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006810955	06/11/2025	12/11/2024 / Abdul	09/03/2024 / Abdul	P13524

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006810955	06/11/2025	12/11/2024 / Abdul	09/03/2024 / Abdul	P13524

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006810955	06/11/2025	12/11/2024 / Abdul	09/03/2024 / Abdul	P13525

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006810955	06/11/2025	12/11/2024 / Abdul	09/03/2024 / Abdul	P13525

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

avantor™ | J.T.Baker®

From M4452 to M4459

Received on : 10/30/2019
Received by : AK

Material No.: 3624-05
Batch No.: 0000237721
Manufactured Date: 2019/04/15
Retest Date: 2026/04/13
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	>= 99.0 %	100.3
pH of 5% Solution at 25°C	5.0 - 9.0	6.0
ACS - Insoluble Matter	<= 0.005 %	< 0.001
Iodide (I)	<= 0.002 %	< 0.002
Bromide (Br)	<= 0.01 %	< 0.01
Chlorate and Nitrate (as NO_3)	<= 0.003 %	< 0.001
ACS - Phosphate (PO_4)	<= 5 ppm	< 5
Sulfate (SO_4)	<= 0.004 %	< 0.004
Barium (Ba)	Passes Test	PT
ACS - Heavy Metals (as Pb)	<= 5 ppm	< 5
Iron (Fe)	<= 2 ppm	< 2
Calcium (Ca)	<= 0.002 %	< 0.001
Magnesium (Mg)	<= 0.001 %	< 0.001
Potassium (K)	<= 0.005 %	0.002

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Ether, Anhydrous
BAKER ANALYZED® A.C.S. Reagent
Contains BHT as a Preservative
Suitable for Fat Extraction

avantor™ | J.T.Baker®

Material No.: 9244-03
Batch No.: 0000288039
Manufactured Date: 2021/07/22
Expiration Date: 2023/07/22
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($(C_2H_5)_2O$) (by GC, corrected for water)	>= 99.0 %	100.0
Alcohol (C_2H_5OH)	Passes Test	PT
Carbonyl Compounds (as HCHO) (by polarography)	<= 0.001 %	< 0.001
Color (APHA)	<= 10	< 5
Peroxide (as H_2O_2)	<= 1 ppm	< 1
Preservative (BHT)	>= 7 ppm	9
Residue after Evaporation	<= 0.0010 %	< 0.0010
Titrable Acid (µeq/g)	<= 0.2	< 0.2
Water (by KF, coulometric)	<= 0.01 %	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US

Recd. by RP on 9/13/22

E 3370

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

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MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO_4)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by RB on 7/24/23 E3551

VWR®

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Pellets

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

E 3657	E 3659
E 3654	E 3660

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

avantor™ | J.T.Baker®

Material No.: 9262-03
Batch No.: 24G1962003
Manufactured Date: 2024-05-23
Expiration Date: 2025-08-22
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H_2SO_4	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

E3826

Rec'd by RP on 11/7/24

Jamie Croak
Director Quality Operations, Bioscience Production

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date:2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 12/5/24

E 3843

J Croak

Jamie Croak
Director Quality Operations, Bioscience Production

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.189
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	< 1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9530-33
Batch No.: 0000281827

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

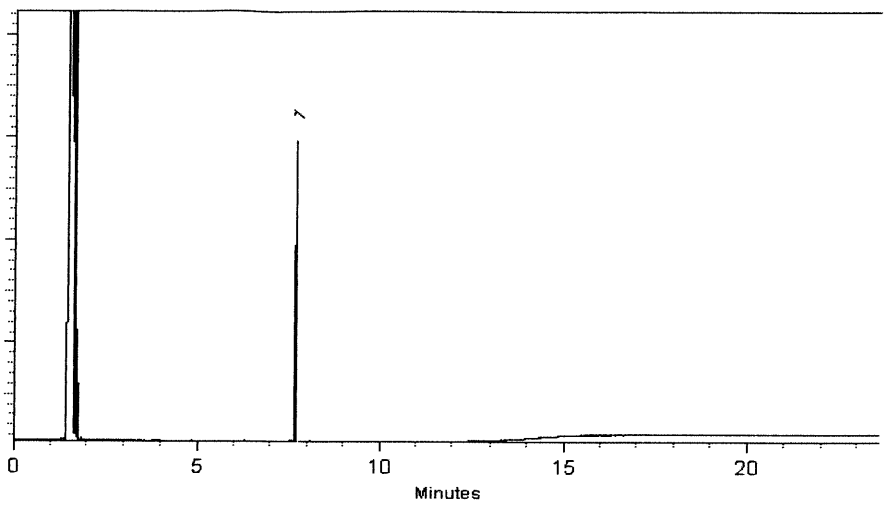
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Katelyn McGlinn - Operations Tech I

Date Mixed: 28-May-2021 **Balance:** B345965662

Marlina Cowan - Operations Tech I

Date Passed: 02-Jun-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

P 11177 to P 11186

AR 11/02/21

RESTEK®
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
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Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32050 **Lot No.:** A0172864

Description : 2,4-Dichlorophenylacetic Acid Methyl Ester Standard

515 Surrogate (ester) 2, 4-dichlorophenyl Acetic Acid Methyl Ester
200µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 29, 2028 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4-Dichlorophenyl acetic acid methyl ester	202.0 µg/mL	+/- 1.4323	µg/mL	Gravimetric
	CAS # 55954-23-9 (Lot CSC42194-01)		+/- 6.8182	µg/mL	Unstressed
	Purity 99%		+/- 6.8182	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

P111177
↓
P111186

AR
11/02/21

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

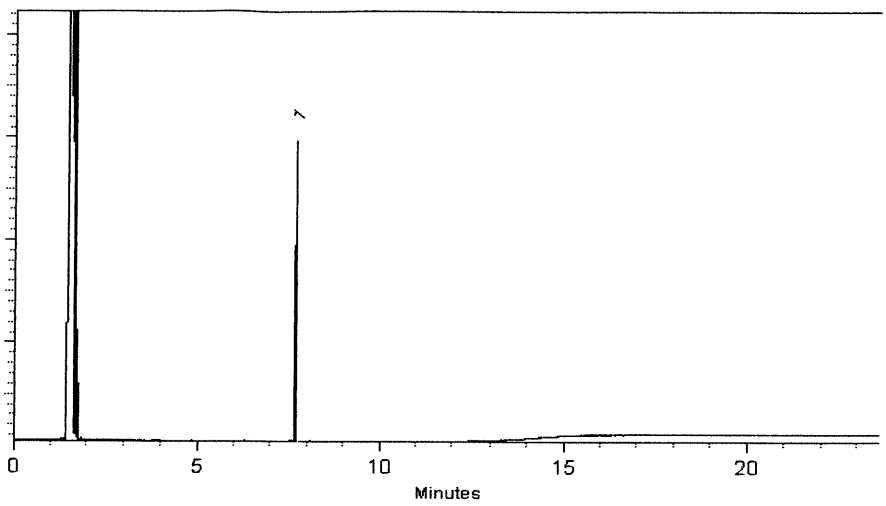
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Katelyn McGlinn - Operations Tech I

Date Mixed: 28-May-2021 **Balance:** B345965662

Marlina Cowan - Operations Tech I

Date Passed: 02-Jun-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

P 11177 to P 11186

AR 11/02/21

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Certificate of Analysis

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Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32050 **Lot No.:** A0172864

Description : 2,4-Dichlorophenylacetic Acid Methyl Ester Standard

515 Surrogate (ester) 2, 4-dichlorophenyl Acetic Acid Methyl Ester
200µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 29, 2028 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4-Dichlorophenyl acetic acid methyl ester	202.0 µg/mL	+/- 1.4323	µg/mL	Gravimetric
	CAS # 55954-23-9 (Lot CSC42194-01)		+/- 6.8182	µg/mL	Unstressed
	Purity 99%		+/- 6.8182	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

P111177
↓
P111186

AR
11/02/21

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

P12616 (S) → P12620

7/5/2023

Catalog No. : 32062 **Lot No.:** A0155055

Description : Herbicide Mix #4/ME (Methyl Ester)

Herbicide Mix #4/ME (Methyl Ester) 200µg/mL, Hexane/Methyl-tert-butyl-ether, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	3,5-Dichlorobenzoic acid methyl ester **CAS #** 2905-67-1 (Lot 3903900) **Purity** 99%	200.0 µg/mL	+/- 1.4182 +/- 6.7507 +/- 6.7507	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	4-Nitroanisole **CAS #** 100-17-4 (Lot 24765/7) **Purity** 99%	200.0 µg/mL	+/- 1.4182 +/- 6.7507 +/- 6.7507	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Pentachloroanisole **CAS #** 1825-21-4 (Lot 7921100) **Purity** 99%	200.0 µg/mL	+/- 1.4182 +/- 6.7507 +/- 6.7507	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	Chloramben methyl ester **CAS #** 7286-84-2 (Lot 6487100) **Purity** 98%	199.9 µg/mL	+/- 1.4176 +/- 6.7480 +/- 6.7480	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Bentazon methyl ester **CAS #** 61592-45-8 (Lot 817100) **Purity** 99%	200.0 µg/mL	+/- 1.4182 +/- 6.7507 +/- 6.7507	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Picloram methyl ester **CAS #** 14143-55-6 (Lot 386-21B) **Purity** 98%	201.9 µg/mL	+/- 1.4315 +/- 6.8141 +/- 6.8141	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	DCPA methyl ester (Chlorthal-dimethyl) **CAS #** 1861-32-1 (Lot 8008700) **Purity** 99%	200.0 µg/mL	+/- 1.4182 +/- 6.7507 +/- 6.7507	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

8	Acifluorfen methyl ester		200.0	µg/mL	+/- 1.4182	µg/mL	Gravimetric
	CAS # 50594-67-7	(Lot 6282300)			+/- 6.7507	µg/mL	Unstressed
	Purity 99%				+/- 6.7507	µg/mL	Stressed

Solvent: Hexane/Methyl-tert-butyl-ether
CAS # 110-54-3/1634-04-4
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

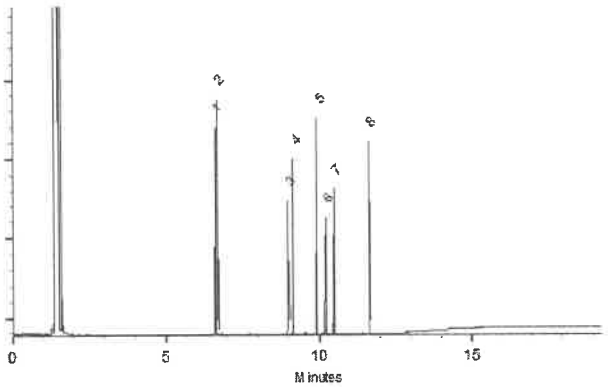
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael J Maye

Date Mixed: 14-Nov-2019 **Balance:** 1128353505

Justine Albertson - Operations Tech-ARM QC

Date Passed: 18-Nov-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

P12626 & P12630 (5)

7/5/2023

Catalog No. : 32055 **Lot No.:** A0192429

Description : Herbicide Mix #1/ME (Methyl Ester)

Herbicide Mix #1/ME (Methyl Ester) 200 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dicamba methyl ester	6597-78-0	11705400	99%	201.6 µg/mL	+/- 3.4204
2	Dichlorprop methyl ester	57153-17-0	11672100	99%	201.4 µg/mL	+/- 3.4170
3	2,4-D methyl ester	1928-38-7	10048000	99%	201.2 µg/mL	+/- 3.4136
4	2,4,5-TP (silvex) methyl ester	4841-20-7	6364900	99%	201.2 µg/mL	+/- 3.4136
5	2,4,5-T methyl ester	1928-37-6	6875800	98%	200.7 µg/mL	+/- 3.4052
6	Dinoseb methyl ether	6099-79-2	12914300	99%	200.8 µg/mL	+/- 3.4068
7	2,4-DB methyl ester	18625-12-2	12542000	99%	201.0 µg/mL	+/- 3.4102

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

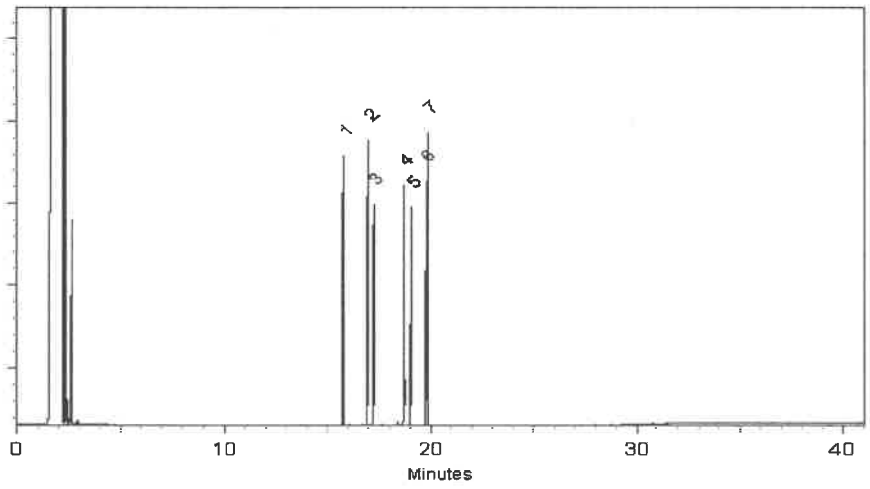
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 09-Dec-2022 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 12-Dec-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Fax: 1-814-353-1309

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

P 12685 ↓ P 12689 (S)

7/24/23

Catalog No. : 32059 **Lot No.:** A0199844

Description : Herbicide Mix #3/ME (Methyl Ester)

Herbicide Mix #3/ME (Methyl Ester) 20,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2030 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	MCPP (Mecoprop) methyl ester	23844-56-6	14546400	99%	20,035.0 µg/mL	+/- 360.1907
2	MCPA methyl ester	2436-73-9	SL201209	99%	20,055.0 µg/mL	+/- 360.5503

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

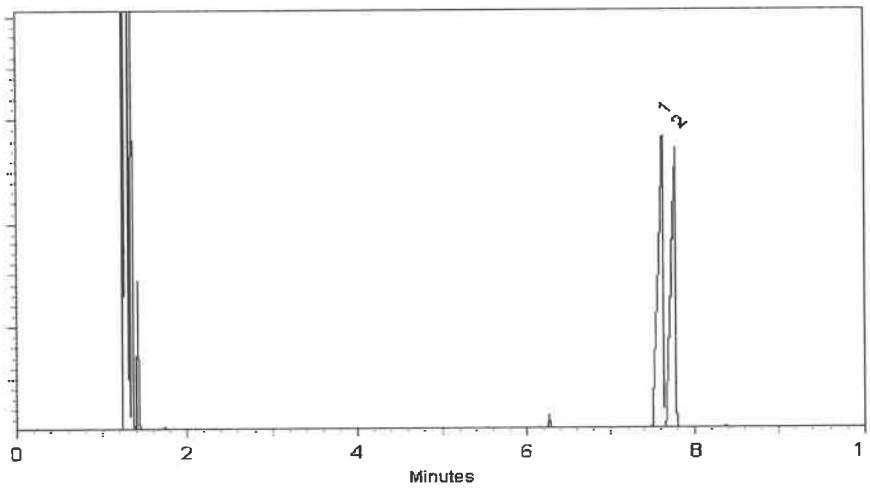
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 12-Jul-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 19-Jul-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

P12706 ↓ P12715 (10)

Agilent

Trusted Answers

ISO 17034

8/15/23

Reference Material Certificate

Product Information Sheet

Product Name: Chlorinated Methylated Herbicides Standard

Product Number: HBM-8151M-1

Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006752480

Lot Issue Date: 18-Jul-2023

Expiration Date: 31-Aug-2025

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
acifluorfen methyl ester	100.3	±	0.5 µg/mL	050594-67-7	RM03058
bentazon methyl derivative	100.2	±	0.5 µg/mL	061592-45-8	RM13829
chloramben methyl ester	100.4	±	0.5 µg/mL	007286-84-2	RM03055
2,4-D methyl ester	100.2	±	0.5 µg/mL	001928-38-7	RM03040
dalapon methyl ester	100.4	±	0.5 µg/mL	017640-02-7	RM14219
2,4-DB methyl ester	100.2	±	0.5 µg/mL	018625-12-2	RM03029
DCPA	100.2	±	0.5 µg/mL	001861-32-1	RM13426
dicamba methyl ester	100.4	±	0.5 µg/mL	006597-78-0	RM03039
methyl-3,5-dichlorobenzoate	100.1	±	0.5 µg/mL	002905-67-1	RM03048
dichlorprop methyl ester	100.4	±	0.5 µg/mL	057153-17-0	NT02086
dinoseb methyl ether	100.5	±	0.5 µg/mL	006099-79-2	RM03051
MCPA methyl ester	10031	±	50 µg/mL	002436-73-9	RM12863
MCPP methyl ester	10031	±	50 µg/mL	023844-56-6	RM20060
4-nitroanisole	100.3	±	0.5 µg/mL	000100-17-4	RM02806
pentachloroanisole	100.4	±	0.5 µg/mL	001825-21-4	RM02457
picloram methyl ester	100.2	±	0.5 µg/mL	014143-55-6	RM03044
silvex methyl ester	100.2	±	0.5 µg/mL	004841-20-7	RM03799
2,4,5-T methyl ester	100.4	±	0.5 µg/mL	001928-37-6	RM03033

Matrix: methanol (methyl alcohol)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

ISO 17025
Cert No. AT-1937

Agilent

Trusted Answers

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:
The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

P12706 (10)
↓
P12715

8.15.23

ANAB
ACCREDITED
ISO 17034
REFERENCE MATERIAL PRODUCER

ISO 17034
Cert No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321

www.agilent.com/quality/
CSD-QA-015.2

ISO 17025
Cert No. AT-1937

P12706 ↓ P12715 (10)

Agilent

Trusted Answers

ISO 17034

8/15/23

Reference Material Certificate

Product Information Sheet

Product Name: Chlorinated Methylated Herbicides Standard

Product Number: HBM-8151M-1

Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006752480

Lot Issue Date: 18-Jul-2023

Expiration Date: 31-Aug-2025

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
acifluorfen methyl ester	100.3	±	0.5 µg/mL	050594-67-7	RM03058
bentazon methyl derivative	100.2	±	0.5 µg/mL	061592-45-8	RM13829
chloramben methyl ester	100.4	±	0.5 µg/mL	007286-84-2	RM03055
2,4-D methyl ester	100.2	±	0.5 µg/mL	001928-38-7	RM03040
dalapon methyl ester	100.4	±	0.5 µg/mL	017640-02-7	RM14219
2,4-DB methyl ester	100.2	±	0.5 µg/mL	018625-12-2	RM03029
DCPA	100.2	±	0.5 µg/mL	001861-32-1	RM13426
dicamba methyl ester	100.4	±	0.5 µg/mL	006597-78-0	RM03039
methyl-3,5-dichlorobenzoate	100.1	±	0.5 µg/mL	002905-67-1	RM03048
dichlorprop methyl ester	100.4	±	0.5 µg/mL	057153-17-0	NT02086
dinoseb methyl ether	100.5	±	0.5 µg/mL	006099-79-2	RM03051
MCPA methyl ester	10031	±	50 µg/mL	002436-73-9	RM12863
MCPP methyl ester	10031	±	50 µg/mL	023844-56-6	RM20060
4-nitroanisole	100.3	±	0.5 µg/mL	000100-17-4	RM02806
pentachloroanisole	100.4	±	0.5 µg/mL	001825-21-4	RM02457
picloram methyl ester	100.2	±	0.5 µg/mL	014143-55-6	RM03044
silvex methyl ester	100.2	±	0.5 µg/mL	004841-20-7	RM03799
2,4,5-T methyl ester	100.4	±	0.5 µg/mL	001928-37-6	RM03033

Matrix: methanol (methyl alcohol)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

ISO 17025
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Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:
The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

P12706 (10)
↓
P12715

8.15.23

ANAB
ACCREDITED
ISO 17034
REFERENCE MATERIAL PRODUCER

ISO 17034
Cert No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321

www.agilent.com/quality/
CSD-QA-015.2

ISO 17025
Cert No. AT-1937

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32049 **Lot No.:** A0212676

Description : 2,4-Dichlorophenylacetic Acid Standard

2, 4-Dichlorophenyl Acetic Acid 200µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2027 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

P13497 ↓ P13515 } Y.P. 08/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	200.0 µg/mL	+/- 2.7154

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Quality Confirmation Test

Column:
150mm x 4.6mm
Allure C18 Cat.(#9164565)

Flow Rate:
1.0 ml/min.

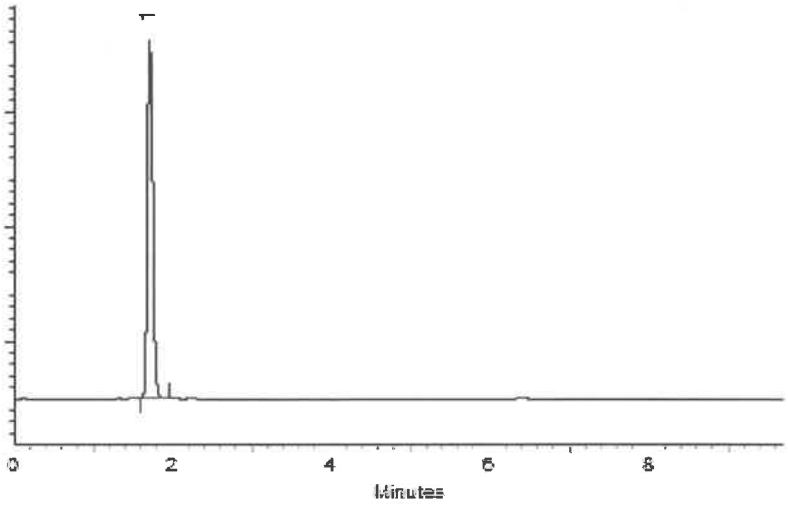
Mobile Phase A:
0.14% H3PO4 in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm

Inj. Vol
5µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 11-Jun-2024 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Jun-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32049 **Lot No.:** A0212676

Description : 2,4-Dichlorophenylacetic Acid Standard

2, 4-Dichlorophenyl Acetic Acid 200µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2027 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

P13497 ↓ P13515 } Y.P. 08/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	200.0 µg/mL	+/- 2.7154

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Quality Confirmation Test

Column:
150mm x 4.6mm
Allure C18 Cat.(#9164565)

Flow Rate:
1.0 ml/min.

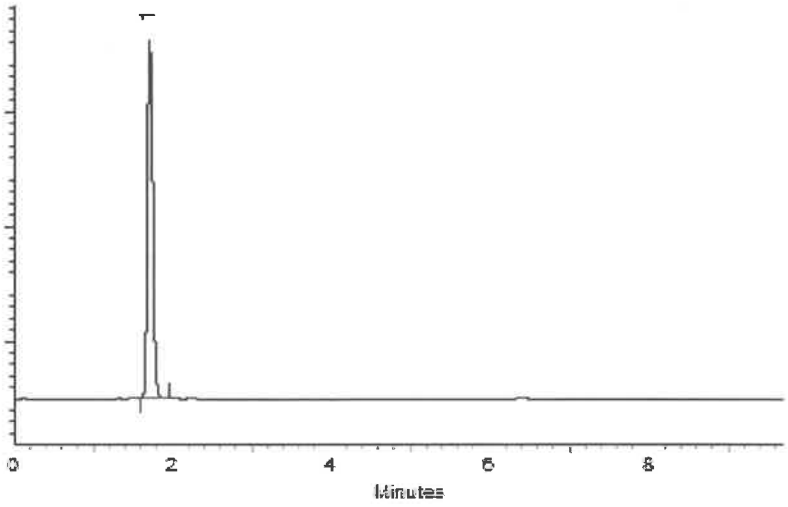
Mobile Phase A:
0.14% H3PO4 in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm

Inj. Vol
5µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 11-Jun-2024 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Jun-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32049 **Lot No.:** A0212676

Description : 2,4-Dichlorophenylacetic Acid Standard

2, 4-Dichlorophenyl Acetic Acid 200µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2027 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

P13497 ↓ P13515 } Y.P. 08/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	200.0 µg/mL	+/- 2.7154

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Quality Confirmation Test

Column:
150mm x 4.6mm
Allure C18 Cat.(#9164565)

Flow Rate:
1.0 ml/min.

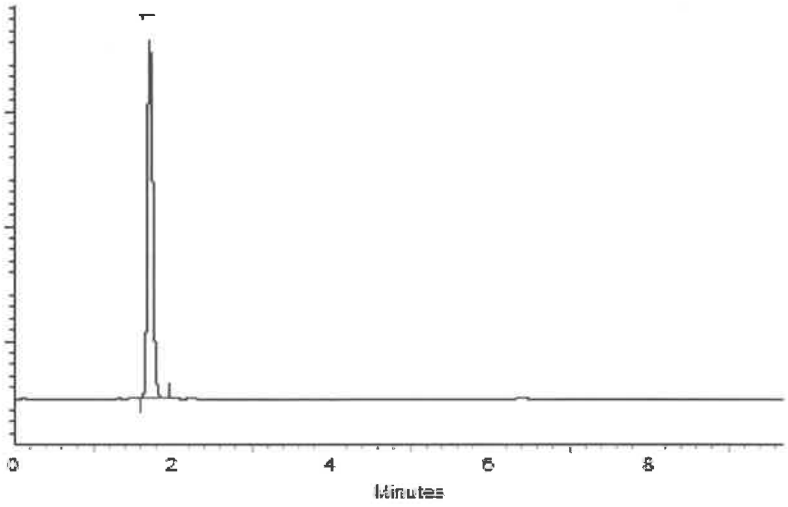
Mobile Phase A:
0.14% H3PO4 in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm

Inj. Vol
5µl



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Ethan Winiarski - Operations Tech I

Date Mixed: 11-Jun-2024 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Jun-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Catalog No. : 32049 **Lot No.:** A0212676

Description : 2,4-Dichlorophenylacetic Acid Standard

2, 4-Dichlorophenyl Acetic Acid 200µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2027 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

P13497 ↓ P13515 } Y.P. 08/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	200.0 µg/mL	+/- 2.7154

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
Failure to derivatize this standard will lead to incorrect quantitative results.

Quality Confirmation Test

Column:
150mm x 4.6mm
Allure C18 Cat.(#9164565)

Flow Rate:
1.0 ml/min.

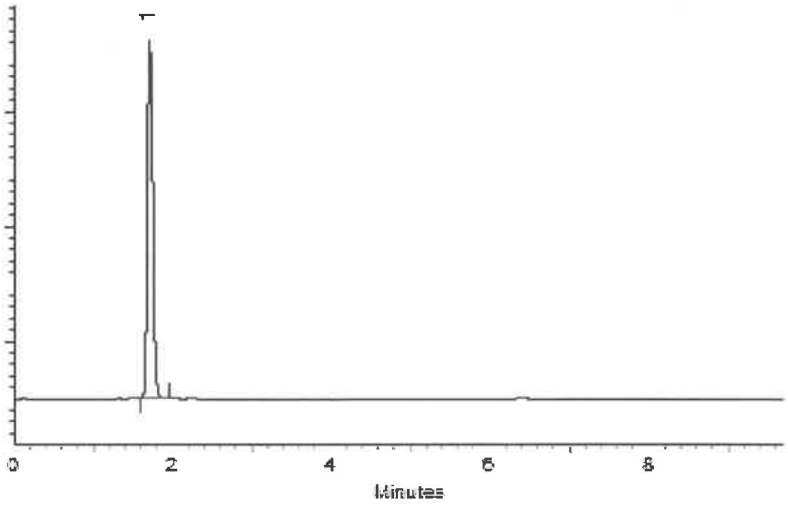
Mobile Phase A:
0.14% H3PO4 in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm

Inj. Vol
5µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 11-Jun-2024 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Jun-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

(18)

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ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name: Chlorinated Herbicides Standard
Product Number: HBM-8151A-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006810955
Lot Issue Date: 20-Aug-2024
Expiration Date: 30-Sep-2026

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
acifluorfen	100.2	±	0.5 µg/mL	050594-66-6	NT02057
bentazon	100.4	±	0.5 µg/mL	025057-89-0	RM21359
chloramben	100.3	±	0.5 µg/mL	000133-90-4	RM02698
2,4-D	100.4	±	0.5 µg/mL	000094-75-7	RM17172
dalapon	100.4	±	0.5 µg/mL	000075-99-0	RM19677
2,4-DB	100.1	±	0.5 µg/mL	000094-82-6	RM02866
tetrachloroterephthalic acid	100.4	±	0.5 µg/mL	002136-79-0	RM15140
dicamba	100.3	±	0.5 µg/mL	001918-00-9	RM22113
3,5-dichlorobenzoic acid	100.4	±	0.5 µg/mL	000051-36-5	RM02768
dichlorprop	100.2	±	0.5 µg/mL	000120-36-5	RM21688
dinoseb	100.3	±	0.5 µg/mL	000088-85-7	RM22275
MCPA	10019	±	50 µg/mL	000094-74-6	RM12220
MCPP (mecoprop)	10011	±	50 µg/mL	000093-65-2	RM09273
4-nitrophenol	100.4	±	0.5 µg/mL	000100-02-7	RM02391
pentachlorophenol	100.2	±	0.5 µg/mL	000087-86-5	RM02474
picloram	100.4	±	0.5 µg/mL	001918-02-1	RM20442
silvex	100.5	±	0.5 µg/mL	000093-72-1	RM22116
2,4,5-T	100.3	±	0.5 µg/mL	000093-76-5	RM19314

Matrix: methanol (methyl alcohol)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

P13520 ↓ P13536 (18)

CSD-QA-015.2

9/4/2024

ISO 17025
Cert No. AT-1937

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(18)

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ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name: Chlorinated Herbicides Standard
Product Number: HBM-8151A-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006810955
Lot Issue Date: 20-Aug-2024
Expiration Date: 30-Sep-2026

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
acifluorfen	100.2	±	0.5 µg/mL	050594-66-6	NT02057
bentazon	100.4	±	0.5 µg/mL	025057-89-0	RM21359
chloramben	100.3	±	0.5 µg/mL	000133-90-4	RM02698
2,4-D	100.4	±	0.5 µg/mL	000094-75-7	RM17172
dalapon	100.4	±	0.5 µg/mL	000075-99-0	RM19677
2,4-DB	100.1	±	0.5 µg/mL	000094-82-6	RM02866
tetrachloroterephthalic acid	100.4	±	0.5 µg/mL	002136-79-0	RM15140
dicamba	100.3	±	0.5 µg/mL	001918-00-9	RM22113
3,5-dichlorobenzoic acid	100.4	±	0.5 µg/mL	000051-36-5	RM02768
dichlorprop	100.2	±	0.5 µg/mL	000120-36-5	RM21688
dinoseb	100.3	±	0.5 µg/mL	000088-85-7	RM22275
MCPA	10019	±	50 µg/mL	000094-74-6	RM12220
MCPP (mecoprop)	10011	±	50 µg/mL	000093-65-2	RM09273
4-nitrophenol	100.4	±	0.5 µg/mL	000100-02-7	RM02391
pentachlorophenol	100.2	±	0.5 µg/mL	000087-86-5	RM02474
picloram	100.4	±	0.5 µg/mL	001918-02-1	RM20442
silvex	100.5	±	0.5 µg/mL	000093-72-1	RM22116
2,4,5-T	100.3	±	0.5 µg/mL	000093-76-5	RM19314

Matrix: methanol (methyl alcohol)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

P13520 ↓ P13536 (18)

CSD-QA-015.2

9/4/2024

ISO 17025
Cert No. AT-1937

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality

(18)

Agilent
Trusted Answers

ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name: Chlorinated Herbicides Standard
Product Number: HBM-8151A-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006810955
Lot Issue Date: 20-Aug-2024
Expiration Date: 30-Sep-2026

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
acifluorfen	100.2	±	0.5 µg/mL	050594-66-6	NT02057
bentazon	100.4	±	0.5 µg/mL	025057-89-0	RM21359
chloramben	100.3	±	0.5 µg/mL	000133-90-4	RM02698
2,4-D	100.4	±	0.5 µg/mL	000094-75-7	RM17172
dalapon	100.4	±	0.5 µg/mL	000075-99-0	RM19677
2,4-DB	100.1	±	0.5 µg/mL	000094-82-6	RM02866
tetrachloroterephthalic acid	100.4	±	0.5 µg/mL	002136-79-0	RM15140
dicamba	100.3	±	0.5 µg/mL	001918-00-9	RM22113
3,5-dichlorobenzoic acid	100.4	±	0.5 µg/mL	000051-36-5	RM02768
dichlorprop	100.2	±	0.5 µg/mL	000120-36-5	RM21688
dinoseb	100.3	±	0.5 µg/mL	000088-85-7	RM22275
MCPA	10019	±	50 µg/mL	000094-74-6	RM12220
MCPP (mecoprop)	10011	±	50 µg/mL	000093-65-2	RM09273
4-nitrophenol	100.4	±	0.5 µg/mL	000100-02-7	RM02391
pentachlorophenol	100.2	±	0.5 µg/mL	000087-86-5	RM02474
picloram	100.4	±	0.5 µg/mL	001918-02-1	RM20442
silvex	100.5	±	0.5 µg/mL	000093-72-1	RM22116
2,4,5-T	100.3	±	0.5 µg/mL	000093-76-5	RM19314

Matrix: methanol (methyl alcohol)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

P13520 ↓ P13536 (18)

CSD-QA-015.2

9/4/2024

ISO 17025
Cert No. AT-1937

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality

SHIPPING DOCUMENTS

q1352

Weston COC ID
Weston_20250210_1440

Chain of Custody Record/Lab Work Request

Page 1 of 1

Client:	Weston Solutions, Inc.		
Project Manager:	David Sembrot		
Street Address:	1400 Weston Way	City:	West Chester
Phone:	610-314-5456	ST, ZIP:	PA, 19038
e-mail:	david.sembrot@westonsolutions.com		
Sampled By:	Cheyenne Harrington		

Project Name:	Fort Meade RI	Project POC:	Nathan Fretz
PO Number	0111169	Phone:	484-524-5665
W.O. #:		POC e-mail:	nathan.fretz@westonsolutions.com
Lab:	CHEMTECH	Lab POC:	Jordan Hedvat
TAT (days):	21	Lab Phone:	908-728-3144
Lab Address:	284 Sheffield Street Mountainside, NJ 07092		

Lab Use Only		
Temperature of cooler when received (°C)		
COC Tape was present and unbroken on outer package?	Y	N
Samples received in good condition?	Y	N
Labels indicate properly preserved?	Y	N
Received within holding times?	Y	N
Discrepancies between sample labels and COC record?	Y	N

Matrix Codes
SS - Soil
SE - Sediment
SO - Solid
SL - Sludge
GW - Groundwater
W - Water
SB - Soil Boring
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

#	Sample ID	G/C	Matrix	# Cont	MS/MSD	Date Collected	Time Collected	TCLP VOCs by EPA 8260D (1311)	TCLP SVOCs by EPA 8270E (1311)	TCLP Metals by EPA 6010D/7470A	TCLP Pesticides by EPA 8081B	TCLP Herbicides by EPA 8151A	Total Sulfide by EPA 9034	Total Cyanide by EPA 9012B	PCB by EPA 8082A	Ignitability by EPA 1030	pH by EPA 9045D			Special Instructions/Comments
Analyses Requested:																				
Container Type:								Encore	Glass	Glass	Glass	Glass	Glass	Glass	Glass	Glass	Glass			
Container Size:								25g	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz			
Preservative:								Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6			
1	~~TAP-SOIL-IDW-021025~~ TAP-IDW-SOIL-021025	c	DS	6	no	2/10/2025	13:40	X	X	X	X	X	X	X	X	X	X			
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

CH

FedEx Shipping Airbill Number: 7719 9075 4644

Cooler Number: 1 of 1

	Relinquished By	Date	Time	Received By	Date	Time	Additional Comments
1.)		10 Feb 25	1800	yg 3.1	2/11/2025 9:10		QSM 6.0 Compliant
2.)							Deliverable Requirements: DoD Level IV report, EnviroData EDD, and ERIS-compatible EDD
3.)							

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021325\
Data File : PS029171.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Feb 2025 23:48
Operator : AR\AJ
Sample : Q1356-04MS
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 14 01:26:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021225.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 09:17:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	7.188	7.662	1474.7E6	497.4E6	533.555	469.871
		Target Compounds						
1)	T	Dalapon	2.615	2.661	1519.2E6	968.4E6	480.282	511.493
2)	T	3,5-DICHL...	6.366	6.630	1854.6E6	669.5E6	468.114	437.603
3)	T	4-Nitroph...	6.986	7.192	704.3E6	358.7E6	413.053	413.632
5)	T	DICAMBA	7.372	7.857	5195.9E6	2344.1E6	431.480	424.141
6)	T	MCPP	7.552	7.961	291.7E6	107.4E6	42.103	43.543
7)	T	MCPA	7.700	8.201	405.3E6	152.7E6	42.344	43.635
8)	T	DICHLORPROP	8.074	8.568	1384.8E6	657.6E6	438.354	477.498
9)	T	2,4-D	8.303	8.895	1622.6E6	673.8E6	482.344	470.321
10)	T	Pentachlo...	8.599	9.415	23532.0E6	11027.0E6	499.045	457.178
11)	T	2,4,5-TP ...	9.174	9.792	9337.3E6	4691.8E6	481.544	480.311
12)	T	2,4,5-T	9.464	10.209	8482.3E6	3956.5E6	437.919	427.160
13)	T	2,4-DB	10.036	10.773	1371.8E6	169.4E6	369.135	178.279 #
14)	T	DINOSEB	11.234	11.150	6627.5E6	2342.6E6	457.050	424.793
15)	T	Picloram	11.047	12.229	12155.3E6	4843.3E6	380.417	352.272
16)	T	DCPA	11.527	12.187	9255.8E6	5437.8E6	319.206	440.846 #

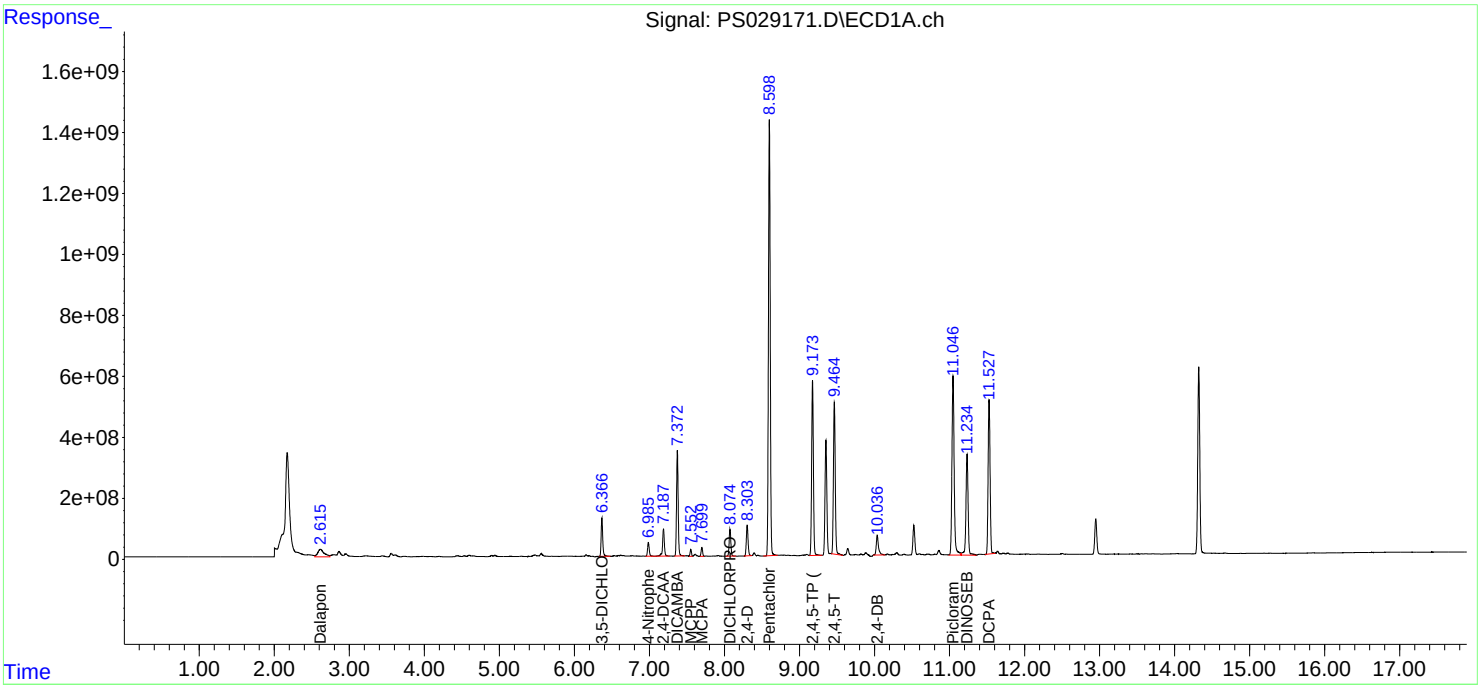
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

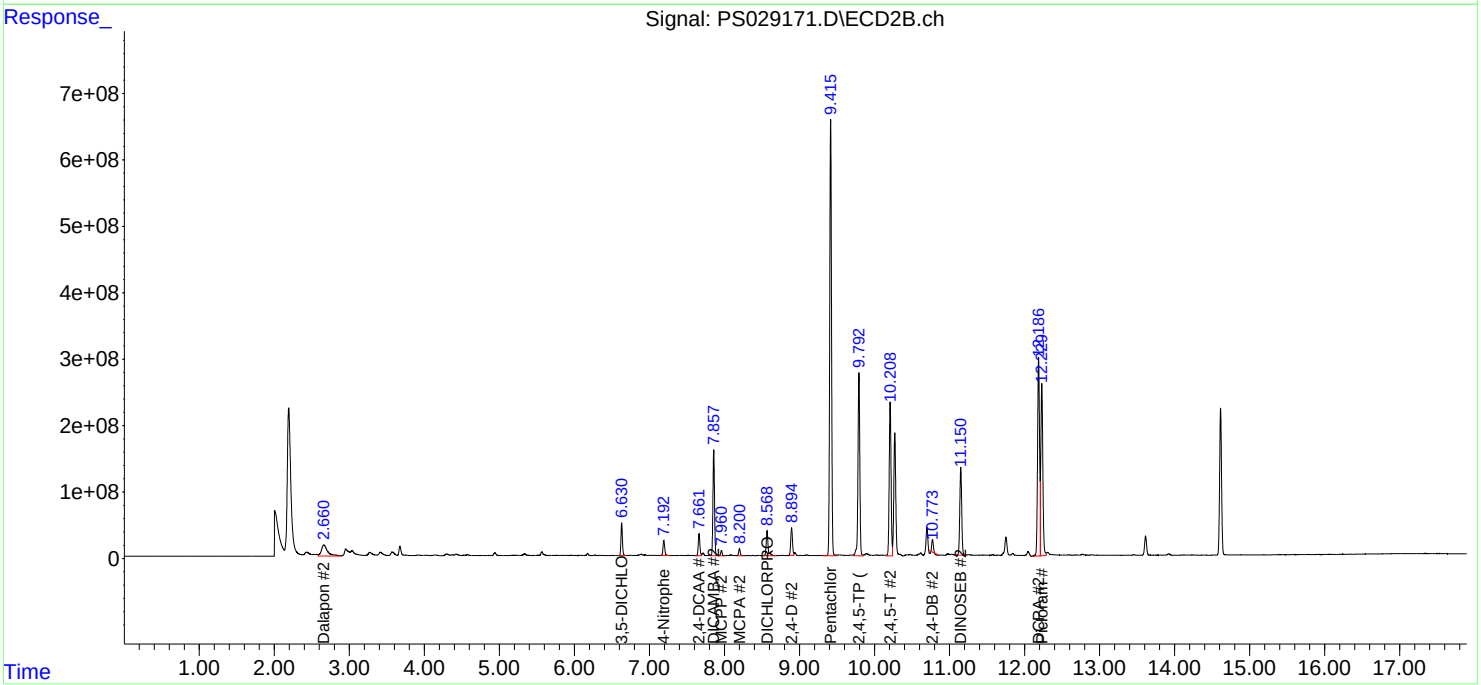
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021325\
Data File : PS029171.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Feb 2025 23:48
Operator : AR\AJ
Sample : Q1356-04MS
Misc :
ALS Vial : 17 Sample Multiplier: 1

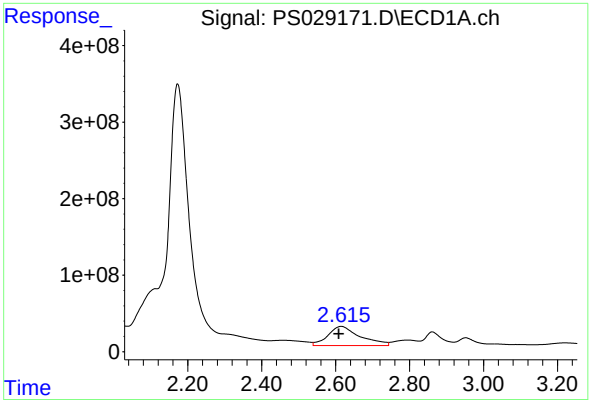
Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 14 01:26:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021225.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 09:17:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



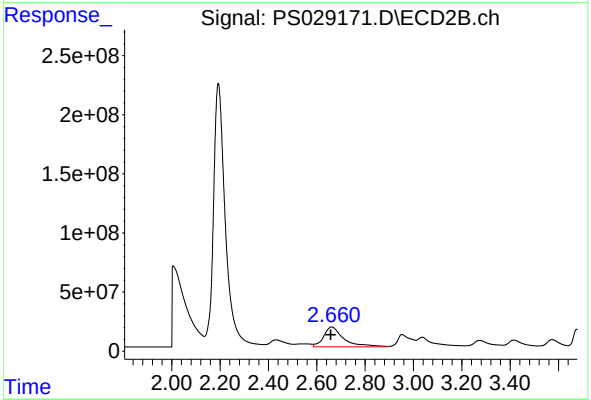




#1 Dalapon

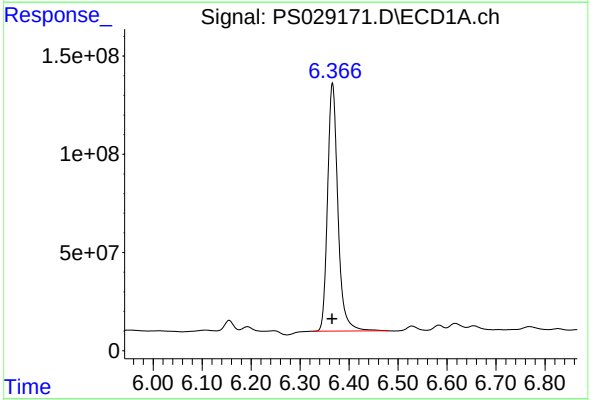
R.T.: 2.615 min
Delta R.T.: 0.006 min
Response: 1519155351
Conc: 480.28 ng/ml

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMS



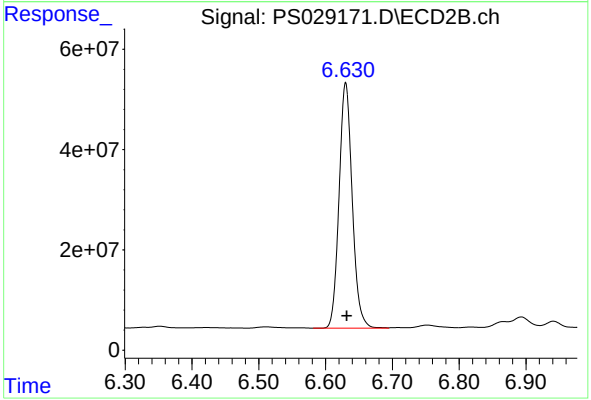
#1 Dalapon

R.T.: 2.661 min
Delta R.T.: 0.003 min
Response: 968411072
Conc: 511.49 ng/ml



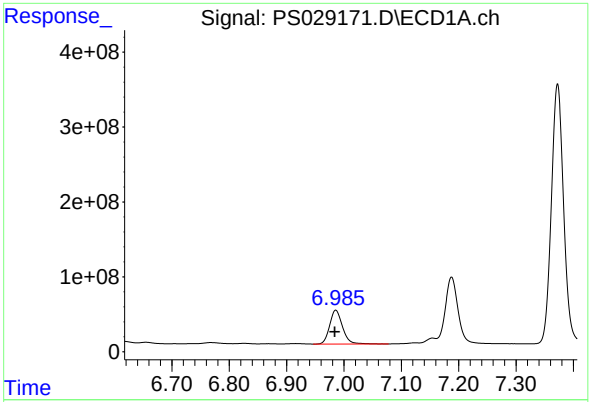
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.366 min
Delta R.T.: 0.000 min
Response: 1854559247
Conc: 468.11 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

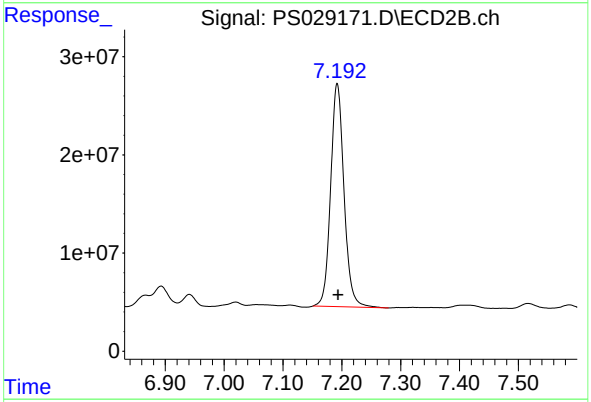
R.T.: 6.630 min
Delta R.T.: -0.002 min
Response: 669473885
Conc: 437.60 ng/ml



#3 4-Nitrophenol

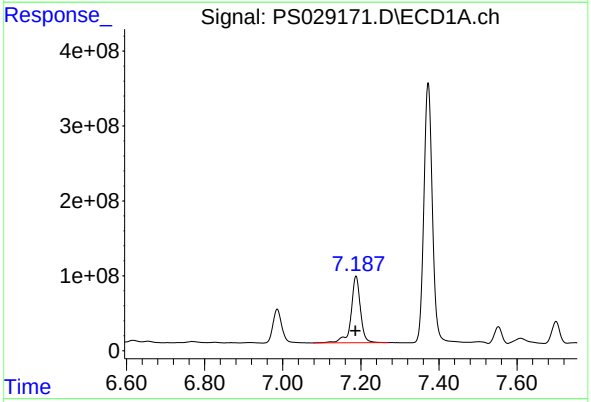
R.T.: 6.986 min
Delta R.T.: 0.002 min
Response: 704285243
Conc: 413.05 ng/ml

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMS



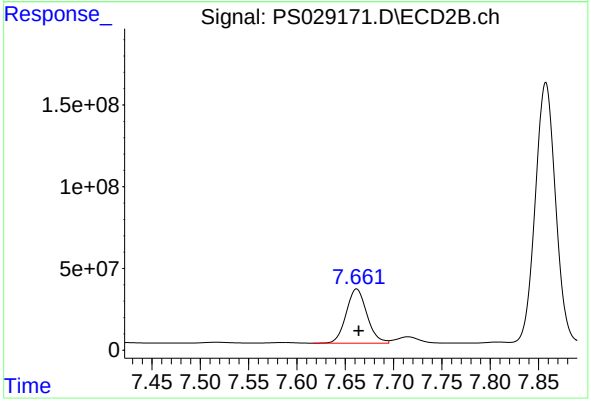
#3 4-Nitrophenol

R.T.: 7.192 min
Delta R.T.: -0.001 min
Response: 358742203
Conc: 413.63 ng/ml



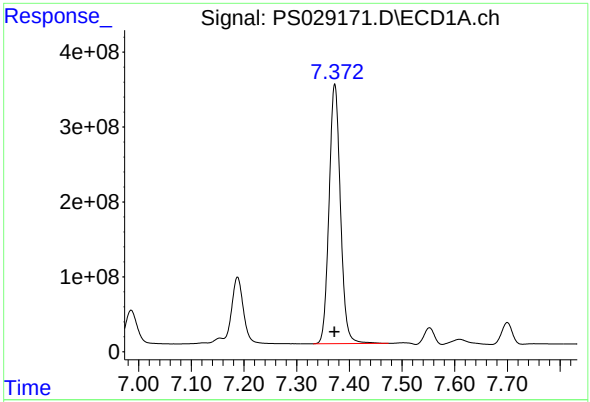
#4 2,4-DCAA

R.T.: 7.188 min
Delta R.T.: 0.001 min
Response: 1474670352
Conc: 533.56 ng/ml



#4 2,4-DCAA

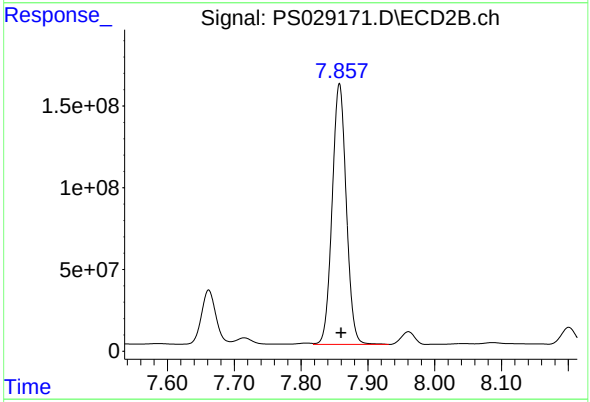
R.T.: 7.662 min
Delta R.T.: -0.002 min
Response: 497356161
Conc: 469.87 ng/ml



#5 DICAMBA

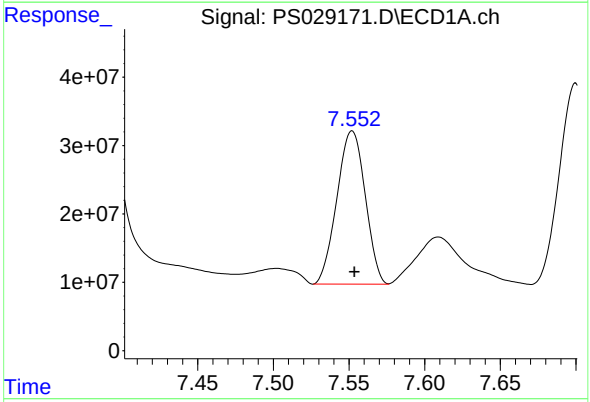
R.T.: 7.372 min
Delta R.T.: 0.001 min
Response: 5195857205
Conc: 431.48 ng/ml

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMS



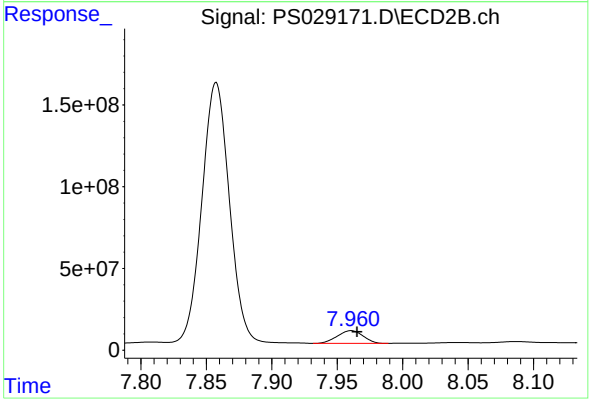
#5 DICAMBA

R.T.: 7.857 min
Delta R.T.: -0.002 min
Response: 2344054631
Conc: 424.14 ng/ml



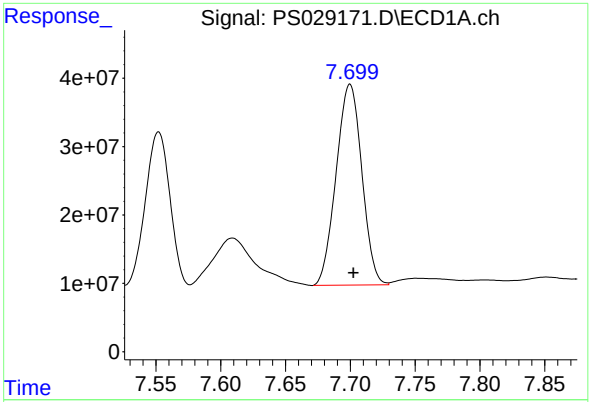
#6 MCPP

R.T.: 7.552 min
Delta R.T.: -0.002 min
Response: 291707749
Conc: 42.10 ug/ml



#6 MCPP

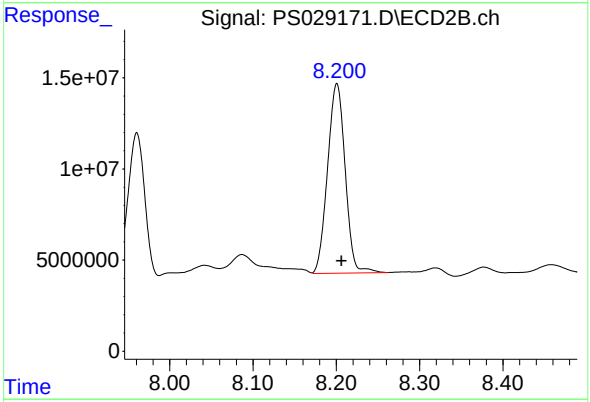
R.T.: 7.961 min
Delta R.T.: -0.005 min
Response: 107430275
Conc: 43.54 ug/ml



#7 MCPA

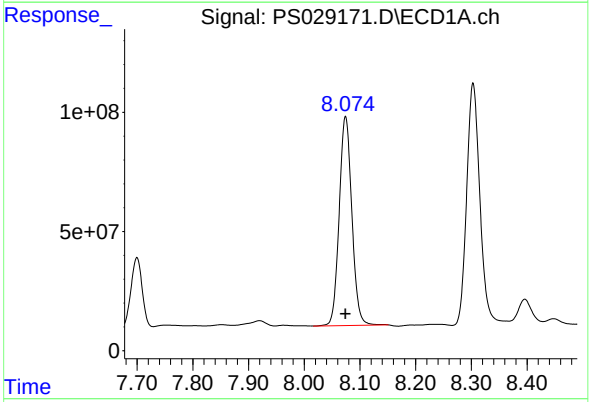
R.T.: 7.700 min
Delta R.T.: -0.003 min
Response: 405324286
Conc: 42.34 ug/ml

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMS



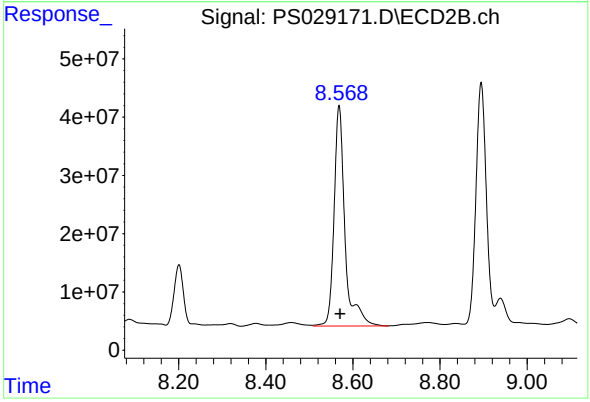
#7 MCPA

R.T.: 8.201 min
Delta R.T.: -0.005 min
Response: 152650707
Conc: 43.63 ug/ml



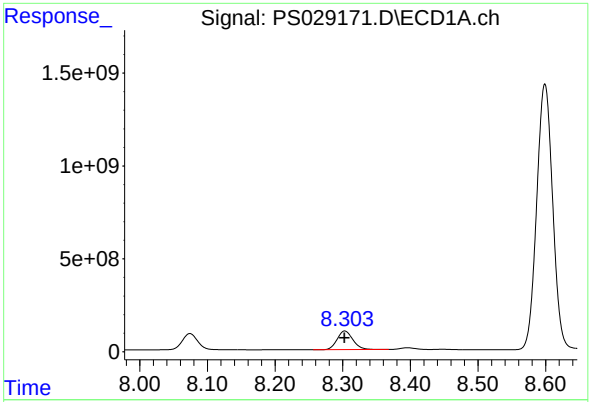
#8 DICHLORPROP

R.T.: 8.074 min
Delta R.T.: 0.000 min
Response: 1384788368
Conc: 438.35 ng/ml



#8 DICHLORPROP

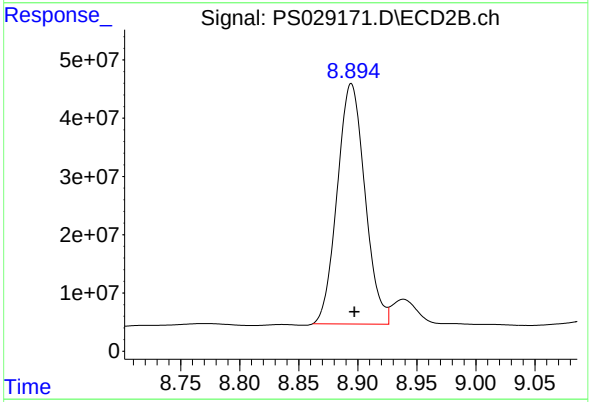
R.T.: 8.568 min
Delta R.T.: -0.003 min
Response: 657557131
Conc: 477.50 ng/ml



#9 2,4-D

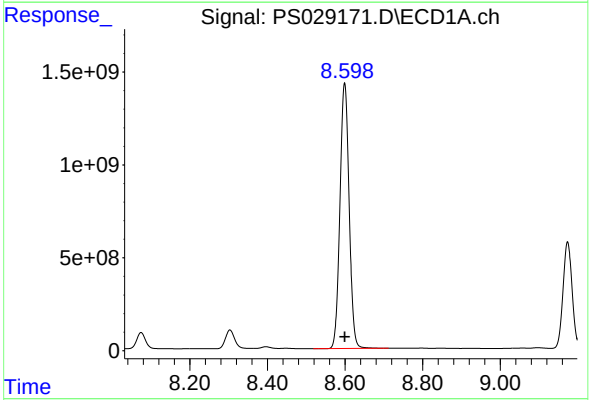
R.T.: 8.303 min
Delta R.T.: 0.000 min
Response: 1622648781
Conc: 482.34 ng/ml

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMS



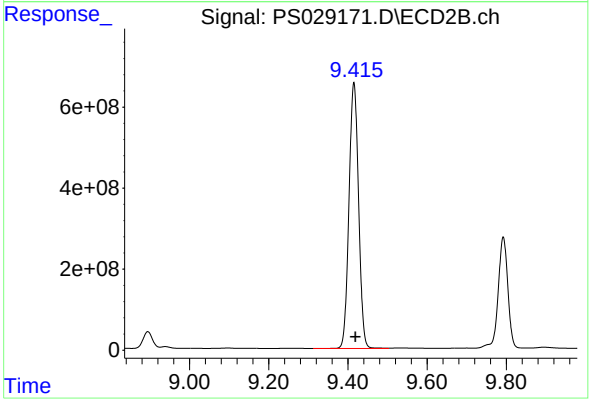
#9 2,4-D

R.T.: 8.895 min
Delta R.T.: -0.002 min
Response: 673795012
Conc: 470.32 ng/ml



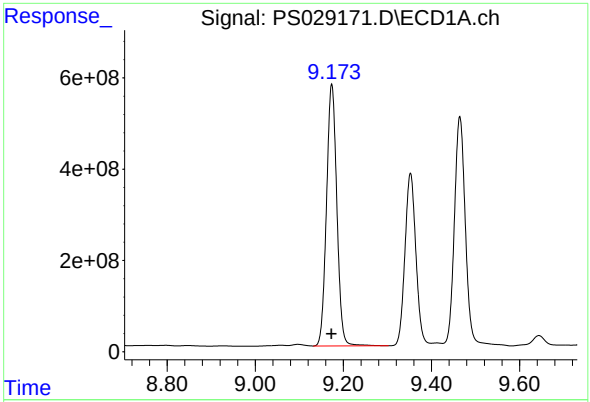
#10 Pentachlorophenol

R.T.: 8.599 min
Delta R.T.: 0.000 min
Response: 23531953629
Conc: 499.05 ng/ml



#10 Pentachlorophenol

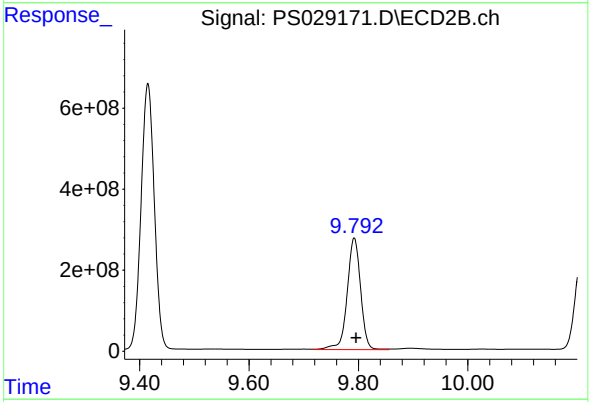
R.T.: 9.415 min
Delta R.T.: -0.004 min
Response: 11026973221
Conc: 457.18 ng/ml



#11 2,4,5-TP (SILVEX)

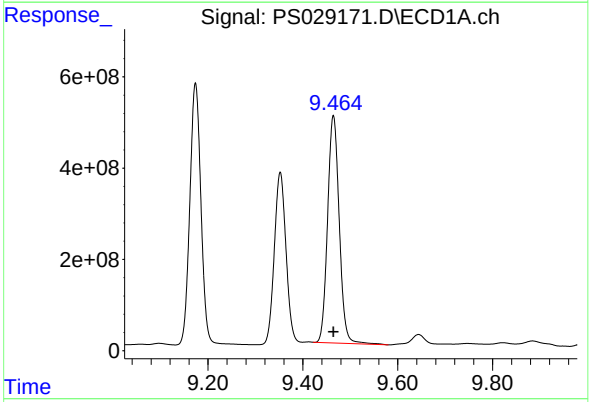
R.T.: 9.174 min
Delta R.T.: 0.000 min
Response: 9337298843
Conc: 481.54 ng/ml

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMS



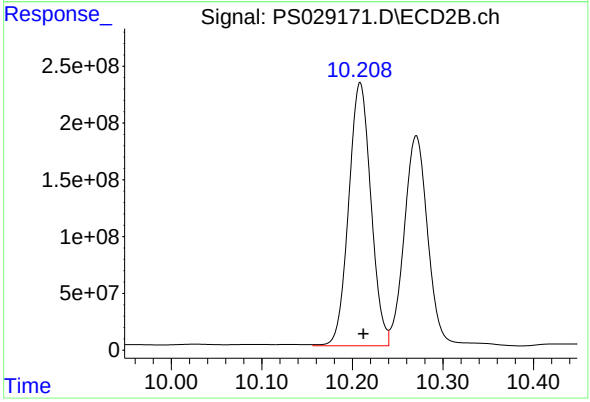
#11 2,4,5-TP (SILVEX)

R.T.: 9.792 min
Delta R.T.: -0.004 min
Response: 4691784148
Conc: 480.31 ng/ml



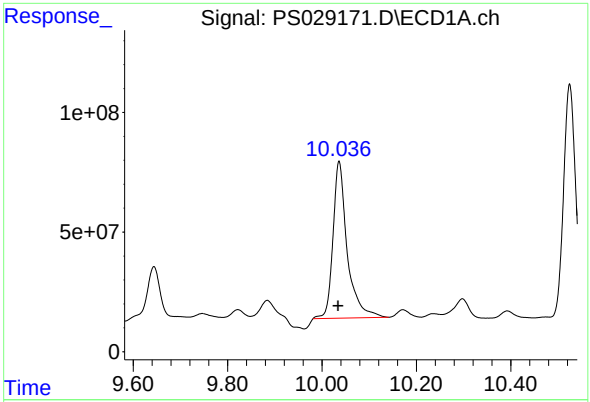
#12 2,4,5-T

R.T.: 9.464 min
Delta R.T.: 0.000 min
Response: 8482348832
Conc: 437.92 ng/ml



#12 2,4,5-T

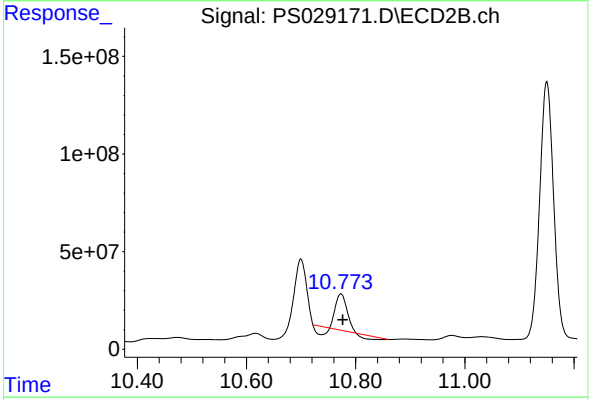
R.T.: 10.209 min
Delta R.T.: -0.004 min
Response: 3956477973
Conc: 427.16 ng/ml



#13 2,4-DB

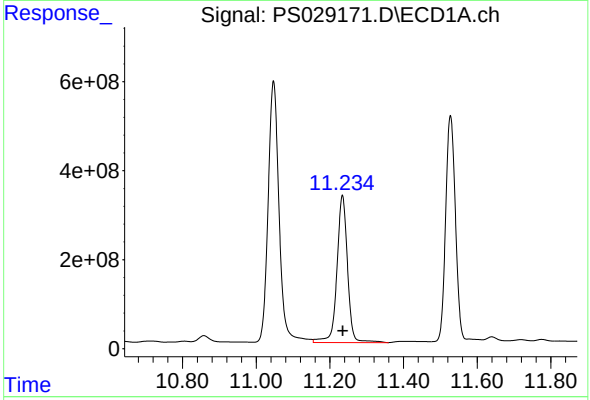
R.T.: 10.036 min
Delta R.T.: 0.002 min
Response: 1371812892
Conc: 369.13 ng/ml

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMS



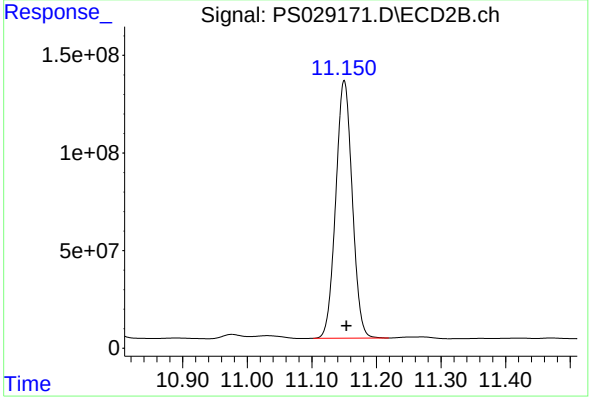
#13 2,4-DB

R.T.: 10.773 min
Delta R.T.: -0.003 min
Response: 169363487
Conc: 178.28 ng/ml



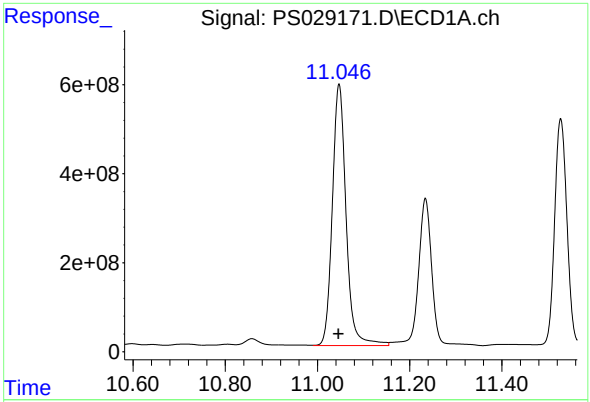
#14 DINOSEB

R.T.: 11.234 min
Delta R.T.: 0.000 min
Response: 6627507264
Conc: 457.05 ng/ml



#14 DINOSEB

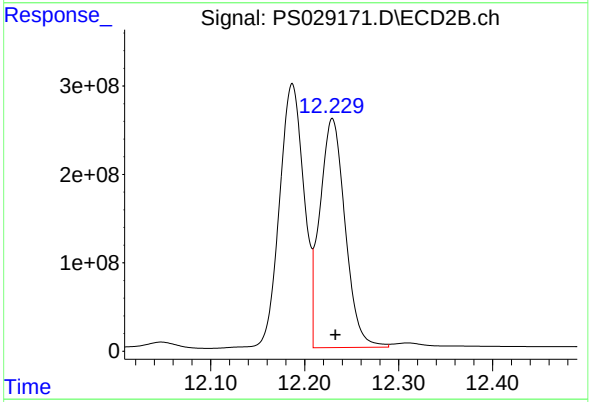
R.T.: 11.150 min
Delta R.T.: -0.004 min
Response: 2342599601
Conc: 424.79 ng/ml



#15 Picloram

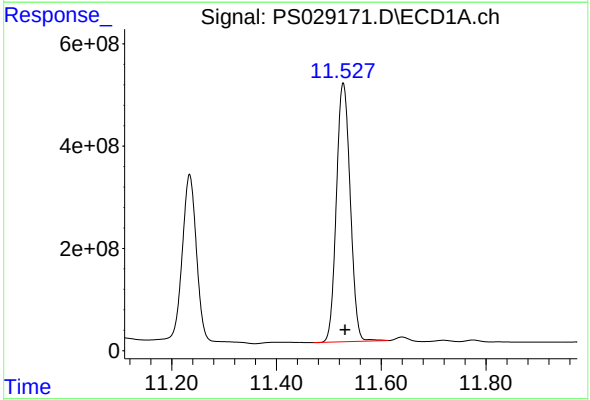
R.T.: 11.047 min
Delta R.T.: 0.001 min
Response: 12155264016
Conc: 380.42 ng/ml

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMS



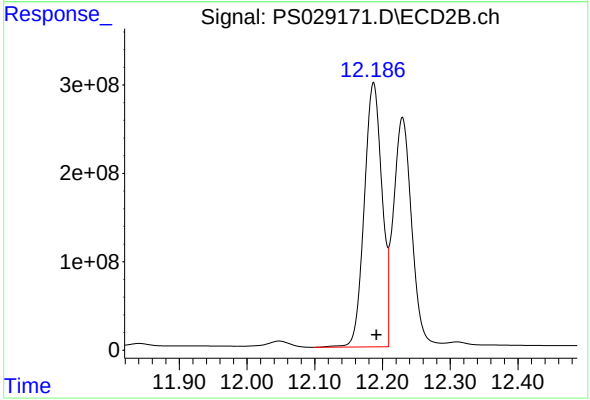
#15 Picloram

R.T.: 12.229 min
Delta R.T.: -0.003 min
Response: 4843343909
Conc: 352.27 ng/ml



#16 DCPA

R.T.: 11.527 min
Delta R.T.: -0.003 min
Response: 9255785711
Conc: 319.21 ng/ml



#16 DCPA

R.T.: 12.187 min
Delta R.T.: -0.004 min
Response: 5437757347
Conc: 440.85 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021325\
Data File : PS029172.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2025 00:12
Operator : AR\AJ
Sample : Q1356-04MSD
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 14 01:26:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021225.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 09:17:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
4)	S	2,4-DCAA	7.187	7.661	1473.1E6	496.2E6	532.992	468.741
		Target Compounds						
1)	T	Dalapon	2.611	2.659	1551.6E6	989.0E6	490.527	522.363
2)	T	3,5-DICHL...	6.366	6.630	1843.0E6	661.0E6	465.192	432.033
3)	T	4-Nitroph...	6.985	7.192	700.6E6	356.5E6	410.920	411.082
5)	T	DICAMBA	7.372	7.857	5138.4E6	2320.8E6	426.710	419.928
6)	T	MCPP	7.551	7.960	287.0E6	106.2E6	41.428	43.042
7)	T	MCPA	7.699	8.200	399.1E6	151.5E6	41.693	43.296
8)	T	DICHLORPROP	8.075	8.568	1368.7E6	641.5E6	433.271	465.856
9)	T	2,4-D	8.303	8.894	1618.4E6	673.3E6	481.076	469.976
10)	T	Pentachlo...	8.599	9.414	23371.0E6	10912.5E6	495.633	452.433
11)	T	2,4,5-TP ...	9.173	9.791	9337.4E6	4665.6E6	481.551	477.632
12)	T	2,4,5-T	9.464	10.208	8489.7E6	3949.2E6	438.298	426.372
13)	T	2,4-DB	10.036	10.772	1377.6E6	143.3E6	370.692	150.852 #
14)	T	DINOSEB	11.234	11.149	6638.9E6	2344.5E6	457.837	425.142
15)	T	Picloram	11.046	12.228	12237.0E6	4881.6E6	382.977	355.058
16)	T	DCPA	11.527	12.185	9174.7E6	5388.5E6	316.408	436.849 #

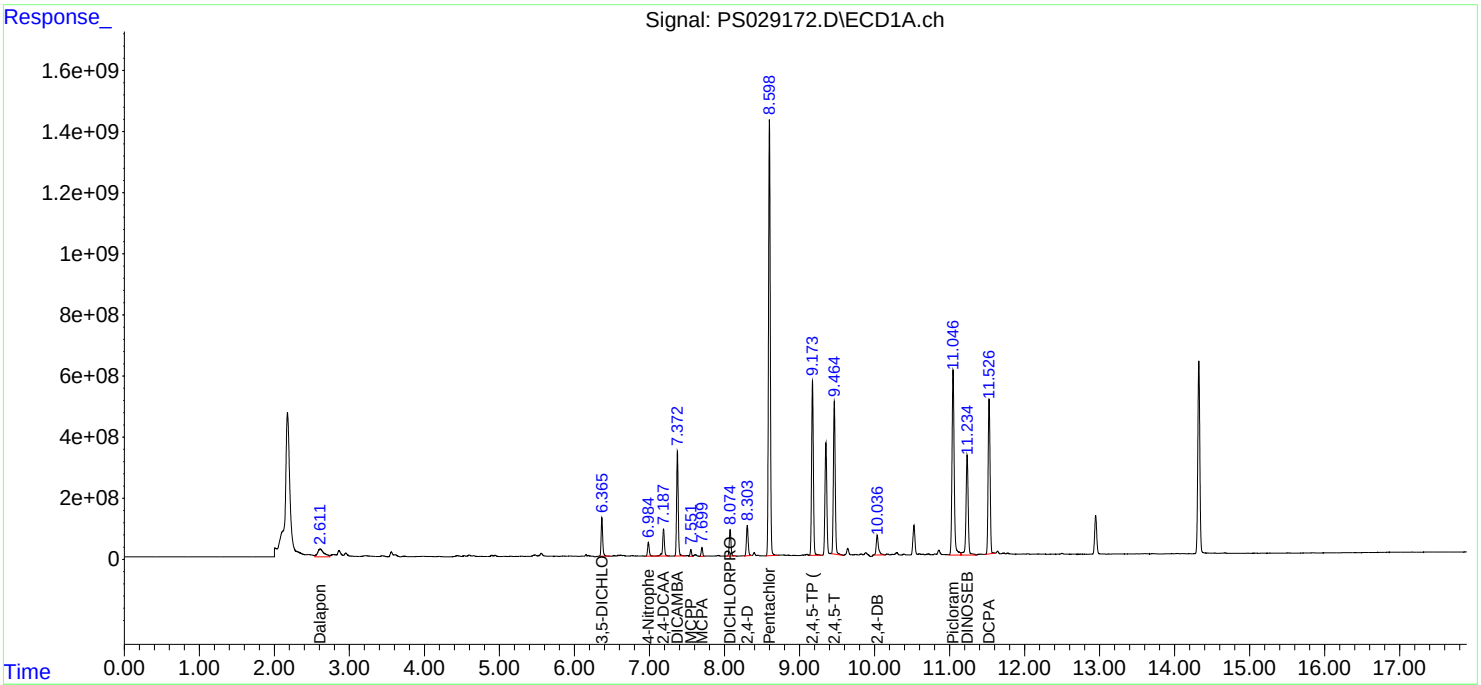
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

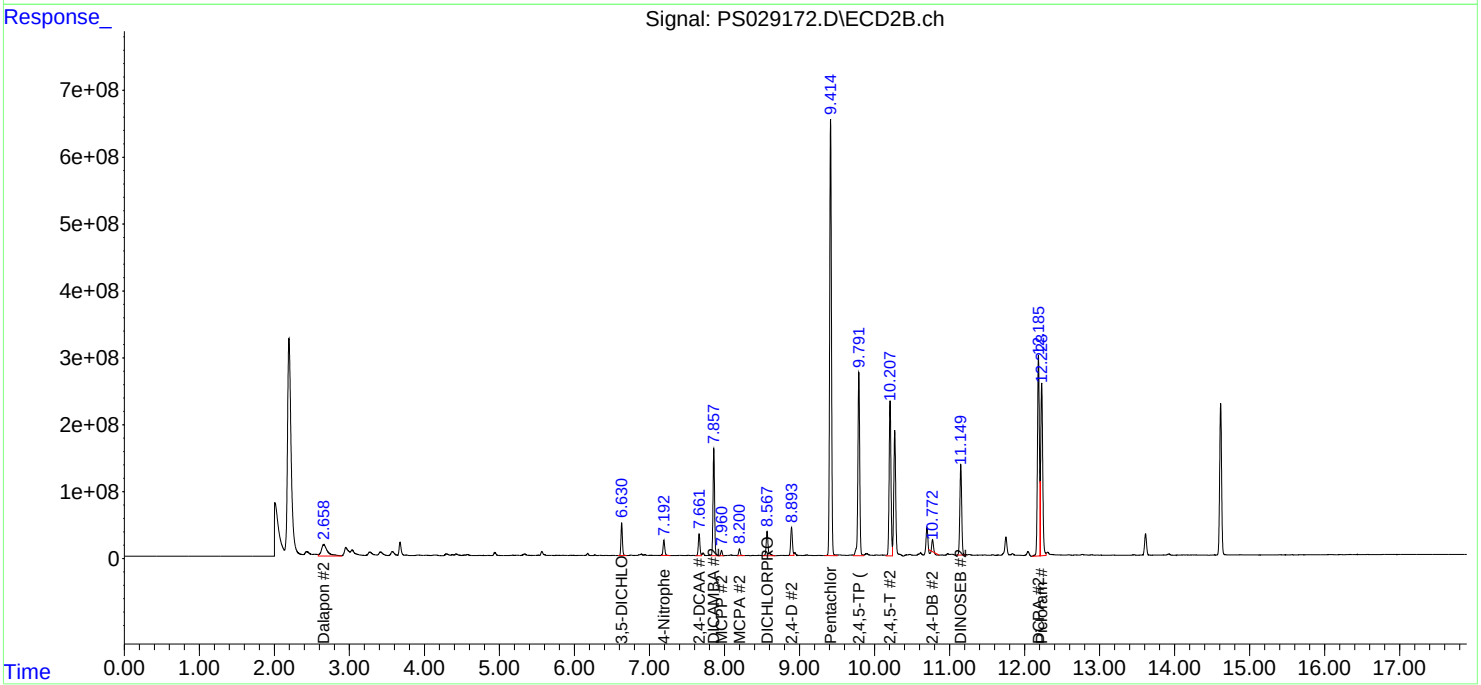
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS021325\
Data File : PS029172.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2025 00:12
Operator : AR\AJ
Sample : Q1356-04MSD
Misc :
ALS Vial : 18 Sample Multiplier: 1

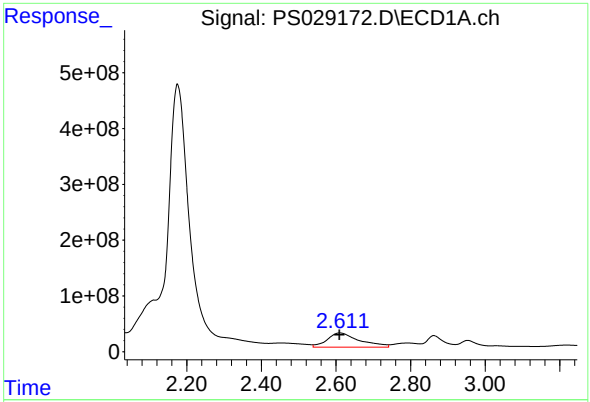
Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 14 01:26:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS021225.M
Quant Title : 8080.M
QLast Update : Wed Feb 12 09:17:13 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



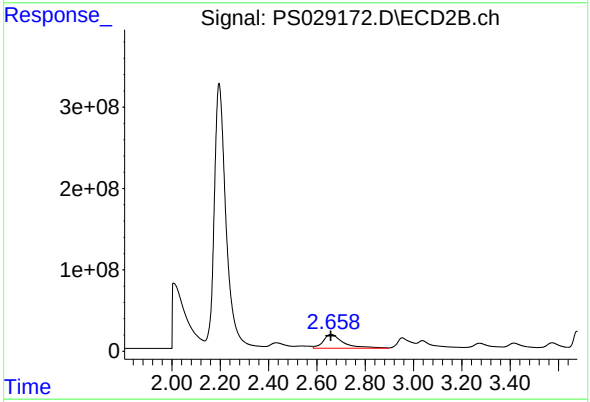




#1 Dalapon

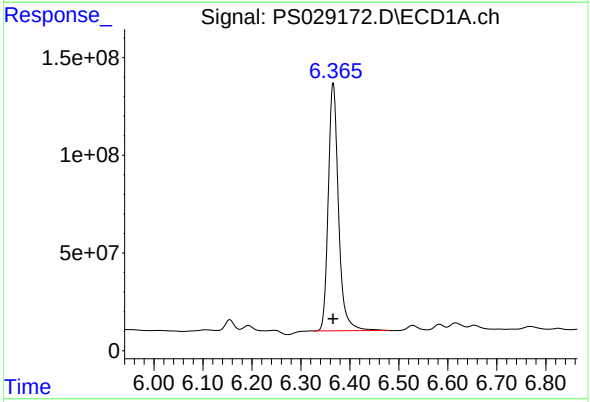
R.T.: 2.611 min
Delta R.T.: 0.002 min
Response: 1551561739
Conc: 490.53 ng/ml

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMSD



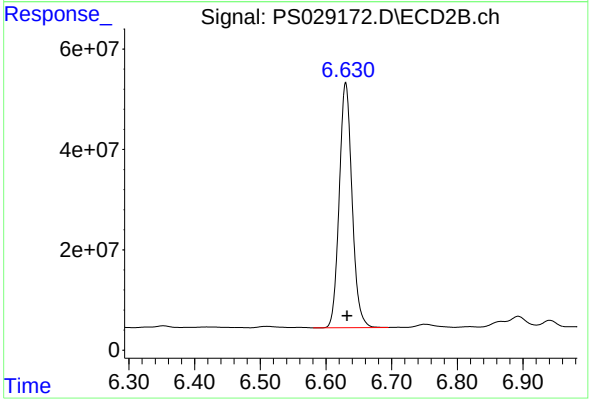
#1 Dalapon

R.T.: 2.659 min
Delta R.T.: 0.000 min
Response: 988989507
Conc: 522.36 ng/ml



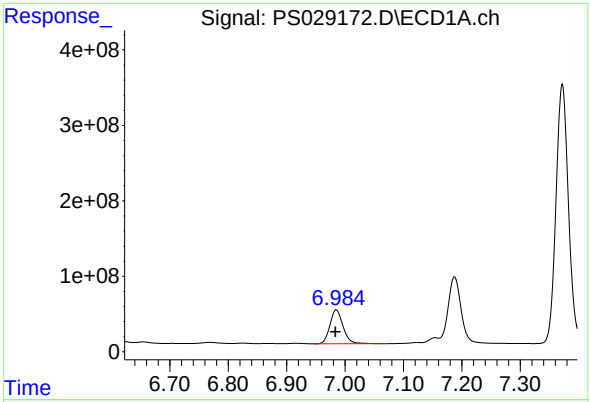
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.366 min
Delta R.T.: 0.000 min
Response: 1842983961
Conc: 465.19 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

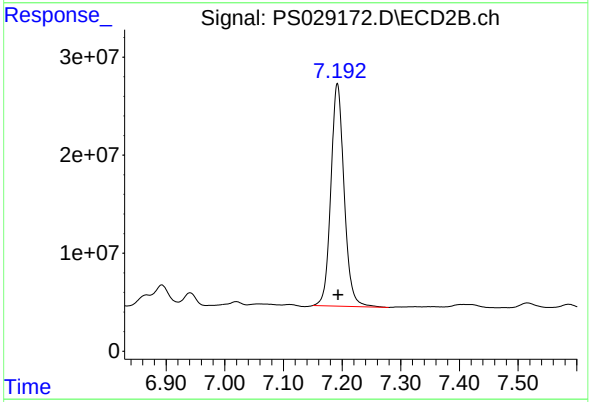
R.T.: 6.630 min
Delta R.T.: -0.002 min
Response: 660952459
Conc: 432.03 ng/ml



#3 4-Nitrophenol

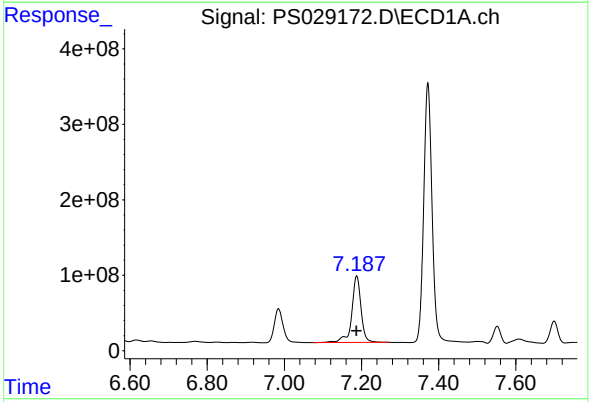
R.T.: 6.985 min
Delta R.T.: 0.001 min
Response: 700647228
Conc: 410.92 ng/ml

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMSD



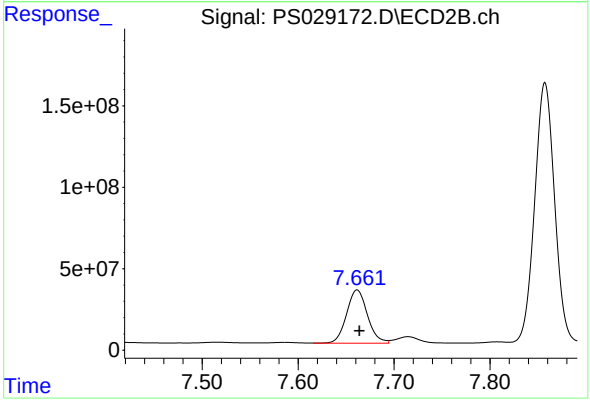
#3 4-Nitrophenol

R.T.: 7.192 min
Delta R.T.: -0.001 min
Response: 356531174
Conc: 411.08 ng/ml



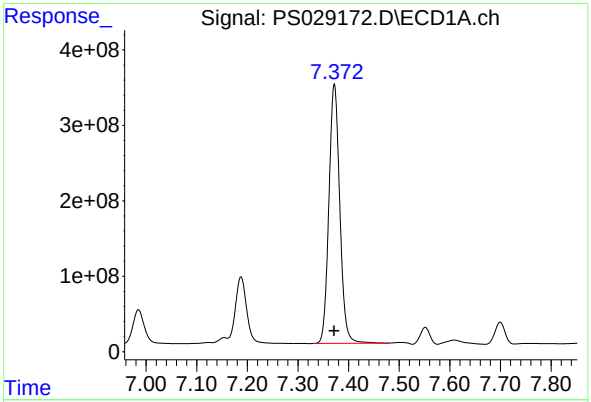
#4 2,4-DCAA

R.T.: 7.187 min
Delta R.T.: 0.000 min
Response: 1473114714
Conc: 532.99 ng/ml



#4 2,4-DCAA

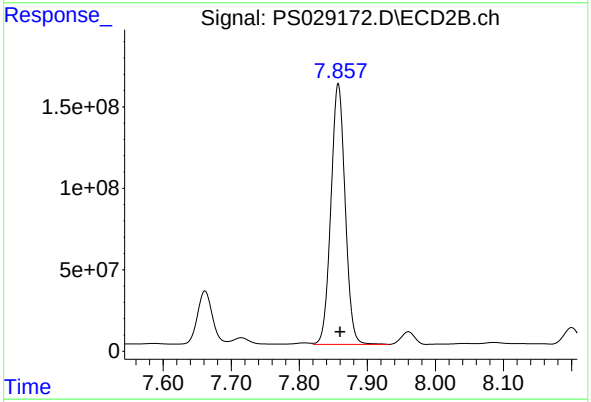
R.T.: 7.661 min
Delta R.T.: -0.003 min
Response: 496159658
Conc: 468.74 ng/ml



#5 DICAMBA

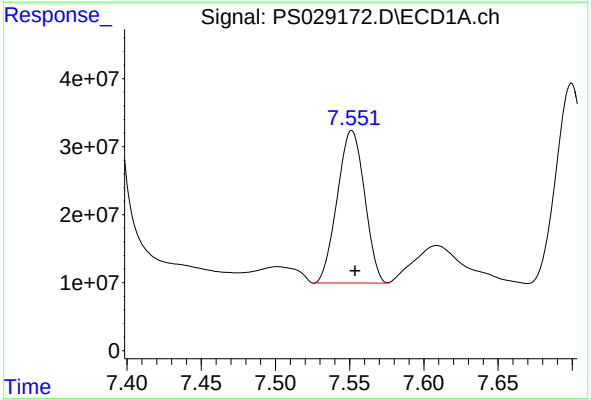
R.T.: 7.372 min
Delta R.T.: 0.000 min
Response: 5138421683
Conc: 426.71 ng/ml

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMSD



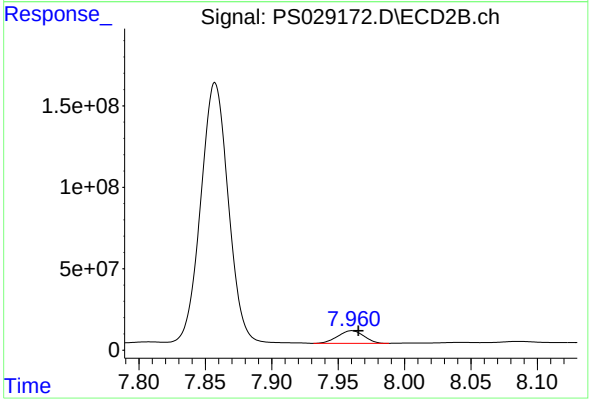
#5 DICAMBA

R.T.: 7.857 min
Delta R.T.: -0.002 min
Response: 2320772824
Conc: 419.93 ng/ml



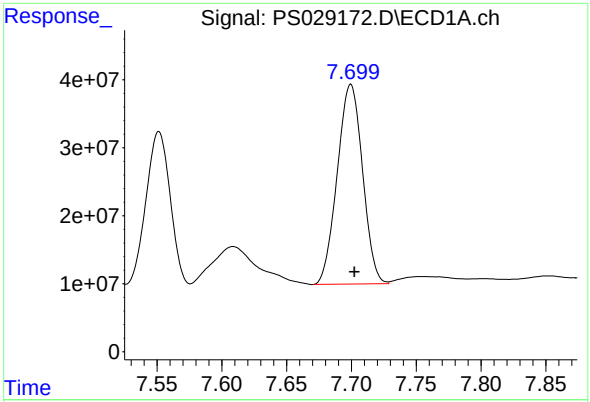
#6 MCPP

R.T.: 7.551 min
Delta R.T.: -0.002 min
Response: 287028617
Conc: 41.43 ug/ml



#6 MCPP

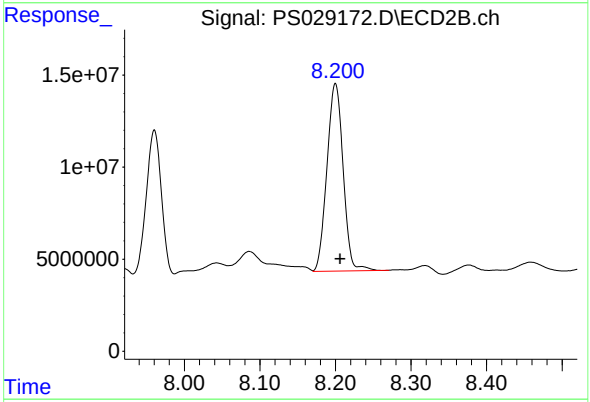
R.T.: 7.960 min
Delta R.T.: -0.005 min
Response: 106193067
Conc: 43.04 ug/ml



#7 MCPA

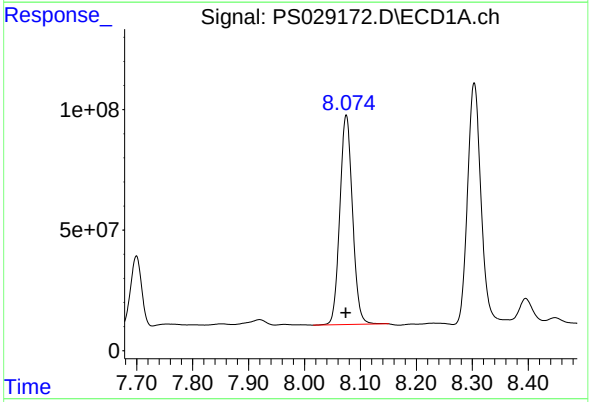
R.T.: 7.699 min
Delta R.T.: -0.003 min
Response: 399090910
Conc: 41.69 ug/ml

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMSD



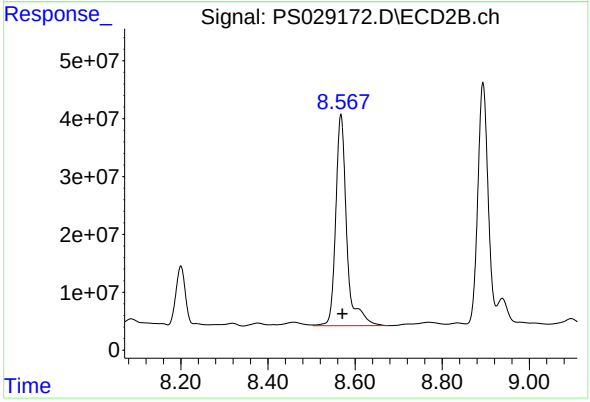
#7 MCPA

R.T.: 8.200 min
Delta R.T.: -0.006 min
Response: 151465006
Conc: 43.30 ug/ml



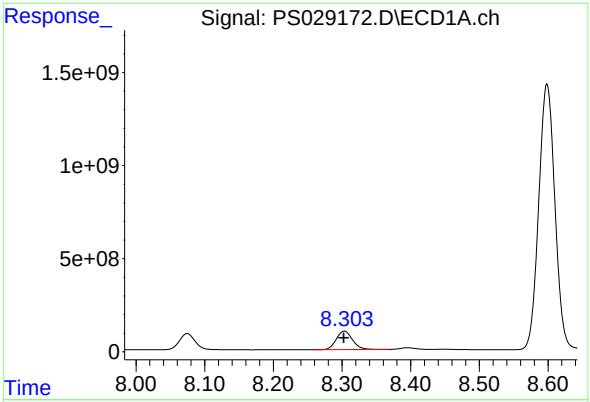
#8 DICHLORPROP

R.T.: 8.075 min
Delta R.T.: 0.000 min
Response: 1368731139
Conc: 433.27 ng/ml



#8 DICHLORPROP

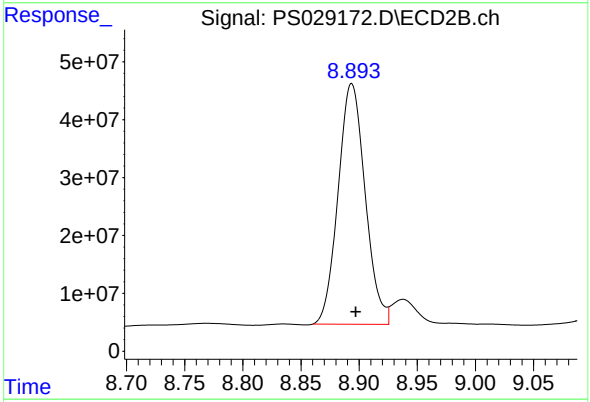
R.T.: 8.568 min
Delta R.T.: -0.003 min
Response: 641525589
Conc: 465.86 ng/ml



#9 2,4-D

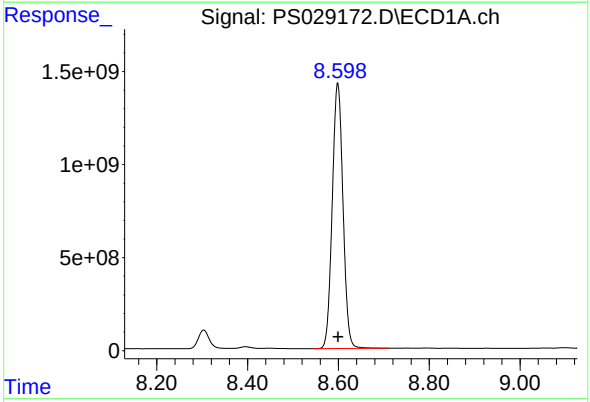
R.T.: 8.303 min
Delta R.T.: 0.001 min
Response: 1618383975
Conc: 481.08 ng/ml

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMSD



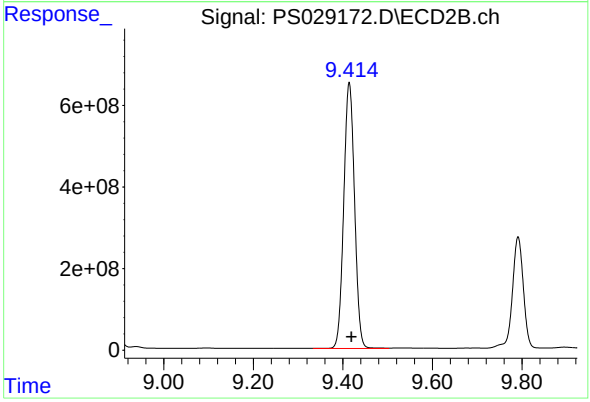
#9 2,4-D

R.T.: 8.894 min
Delta R.T.: -0.003 min
Response: 673300762
Conc: 469.98 ng/ml



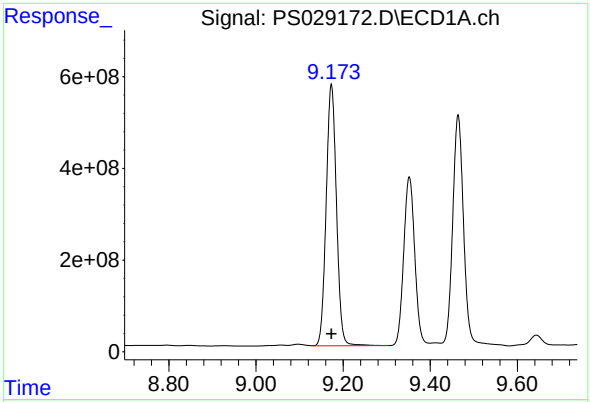
#10 Pentachlorophenol

R.T.: 8.599 min
Delta R.T.: 0.000 min
Response: 23371049991
Conc: 495.63 ng/ml



#10 Pentachlorophenol

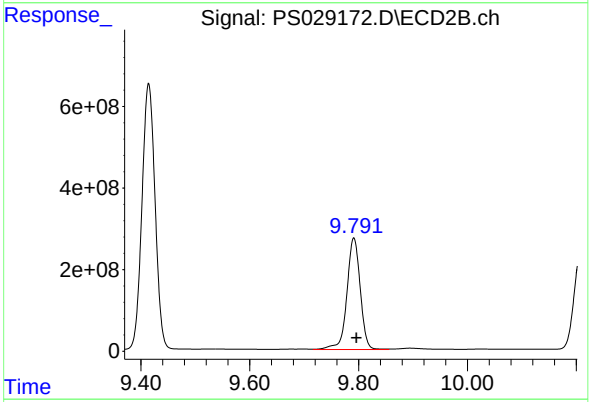
R.T.: 9.414 min
Delta R.T.: -0.005 min
Response: 10912526099
Conc: 452.43 ng/ml



#11 2,4,5-TP (SILVEX)

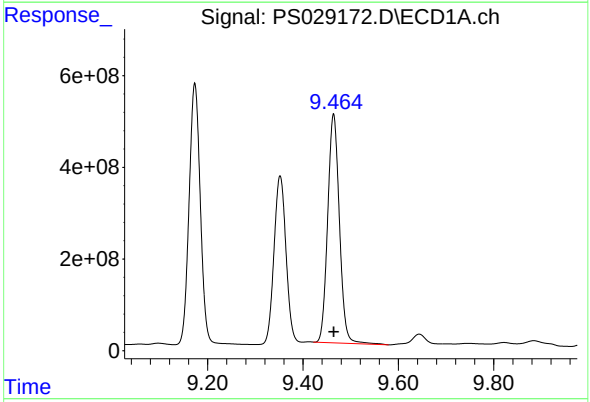
R.T.: 9.173 min
Delta R.T.: 0.000 min
Response: 9337446653
Conc: 481.55 ng/ml

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMSD



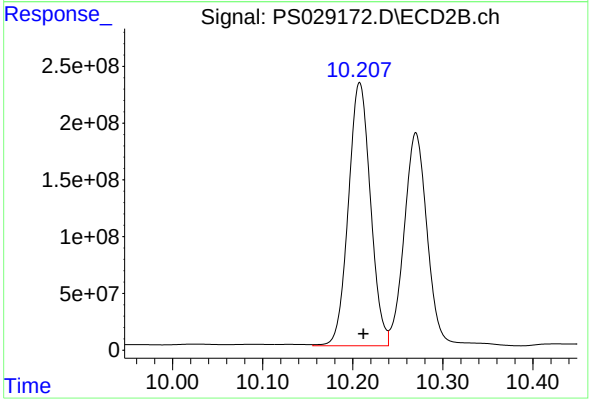
#11 2,4,5-TP (SILVEX)

R.T.: 9.791 min
Delta R.T.: -0.005 min
Response: 4665610513
Conc: 477.63 ng/ml



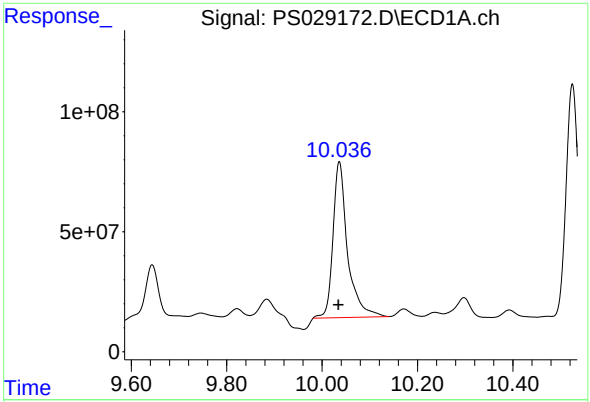
#12 2,4,5-T

R.T.: 9.464 min
Delta R.T.: 0.000 min
Response: 8489680473
Conc: 438.30 ng/ml



#12 2,4,5-T

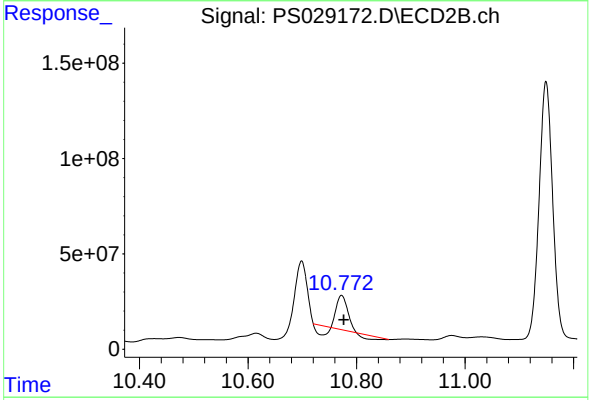
R.T.: 10.208 min
Delta R.T.: -0.004 min
Response: 3949176970
Conc: 426.37 ng/ml



#13 2,4-DB

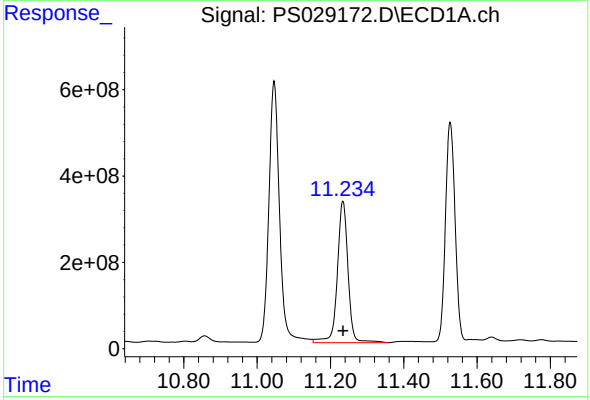
R.T.: 10.036 min
Delta R.T.: 0.002 min
Response: 1377599345
Conc: 370.69 ng/ml

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMSD



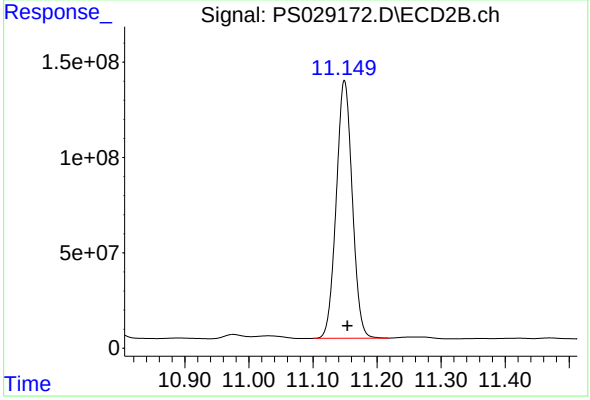
#13 2,4-DB

R.T.: 10.772 min
Delta R.T.: -0.004 min
Response: 143308133
Conc: 150.85 ng/ml



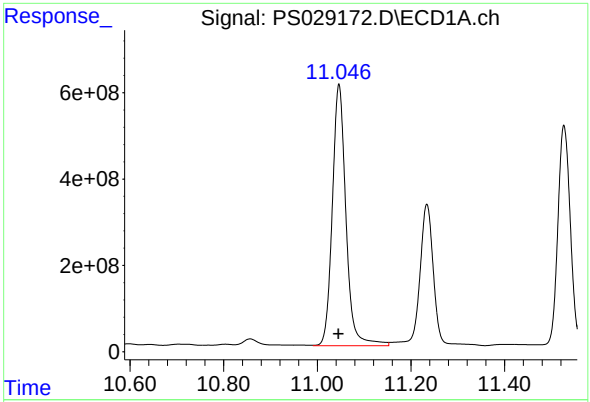
#14 DINOSEB

R.T.: 11.234 min
Delta R.T.: 0.000 min
Response: 6638913437
Conc: 457.84 ng/ml



#14 DINOSEB

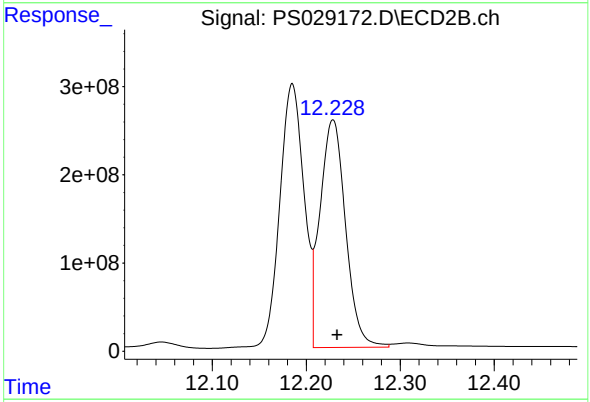
R.T.: 11.149 min
Delta R.T.: -0.004 min
Response: 2344525158
Conc: 425.14 ng/ml



#15 Picloram

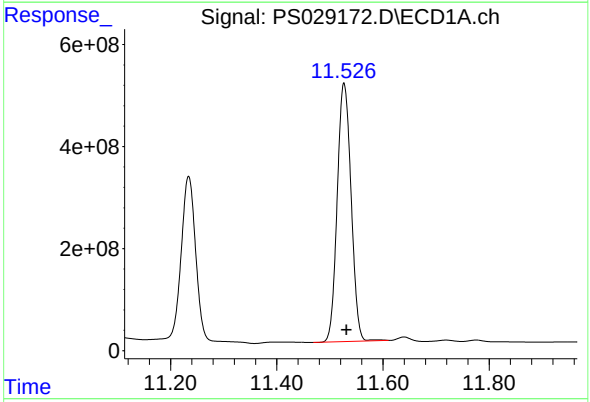
R.T.: 11.046 min
Delta R.T.: 0.000 min
Response: 12237040857
Conc: 382.98 ng/ml

Instrument :
ECD_S
ClientSampleId :
CARBON-WATERMSD



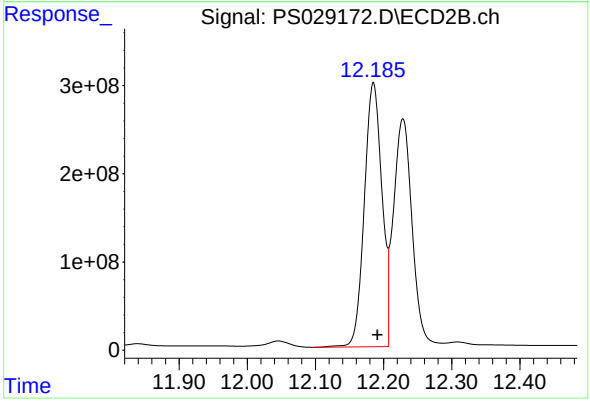
#15 Picloram

R.T.: 12.228 min
Delta R.T.: -0.004 min
Response: 4881642726
Conc: 355.06 ng/ml



#16 DCPA

R.T.: 11.527 min
Delta R.T.: -0.004 min
Response: 9174665199
Conc: 316.41 ng/ml



#16 DCPA

R.T.: 12.185 min
Delta R.T.: -0.006 min
Response: 5388459231
Conc: 436.85 ng/ml