

DATA PACKAGE

GC SEMI-VOLATILES

PROJECT NAME : NJ WASTE WATER PT

ALLIANCE TECHNICAL GROUP, LLC - NEWARK

284 Sheffiled Stree

Suite 1

Mountainside, NJ - 07092

Phone No: 908-789-8900

ORDER ID : Q3015

ATTENTION : Mohammad Ahmed



Laboratory Certification ID # 20012



1) HERBICIDE GROUP1 Data	2
2) Signature Page	4
3) Case Narrative	5
4) Qualifier Page	7
5) Conformance/Non Conformance	8
6) QA Checklist	10
7) Chronicle	11
8) Hit Summary	12
9) QC Data Summary For Herbicide group1	13
9.1) Deuterated Monitoring Compound Summary	14
9.2) LCS/LCSD Summary	15
9.3) Method Blank Summary	17
10) Sample Data	18
10.1) WP0925-PT-HERB-WP	19
11) Calibration Data Summary	30
11.1) Initial Calibration Data	31
11.1.1) PS090925	31
11.2) Continued Calibration Data	95
11.2.1) PS031675.D	95
11.2.2) PS031683.D	109
11.3) Analytical Seq	123
12) Compound Detection Summary	125
13) QC Sample Data	130
13.1) Method Blank Data	131
13.2) PIBLK Data	136
13.3) LCS Data	151
13.4) LCSD Data	163
14) Manual Integration	175
15) Analytical Runlogs	176
16) Extraction Logs	179
16.1) PB169584.pdf	179
16.2) PB169584IC.pdf	181
17) Standard Prep Logs	182
18) Shipping Document	228
18.1) Chain Of Custody	229

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18

Cover Page

Order ID : Q3015

Project ID : NJ Waste Water PT

Client : Alliance Technical Group, LLC - Newark

Lab Sample Number

Q3015-01
Q3015-02
Q3015-03
Q3015-04
Q3015-05
Q3015-06
Q3015-07
Q3015-08
Q3015-09
Q3015-10
Q3015-11
Q3015-12
Q3015-13
Q3015-14
Q3015-15
Q3015-16
Q3015-17
Q3015-18
Q3015-19
Q3015-20
Q3015-21
Q3015-22

Client Sample Number

WP0925-PT-VOA-WP
WP0925-PT-VOA-WP
WP0925-PT-BN-WP
WP0925-PT-BN-WP
WP0925-PT-BN-WP
WP0925-PT-ACIDS-WP
WP0925-PT-ACIDS-WP
WP0925-PT-ACIDS-WP
WP0925-PT-PEST-WP
WP0925-PT-PEST-WP
WP0925-PT-CHLR-WP
WP0925-PT-CHLR-WP
WP0925-PT-TXP-WP
WP0925-PT-TXP-WP
WP0925-PT-PCBW-WP
WP0925-PT-PCBW-WP
WP0925-PT-HERB-WP
WP0925-RR-GAS-WP
WP0925-RR-DIES-WP
WP0925-RR-8011-WP
WP0925-RR-PAH-WP
WP0925-RR-TRIAZINE-WP

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: 9/25/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Alliance Technical Group, LLC - Newark

Project Name: NJ Waste Water PT

Project # N/A

Order ID # Q3015

Test Name: Herbicide group1

A. Number of Samples and Date of Receipt:

1 Water sample was received on 09/04/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Herbicide group1. This data package contains results for Herbicide group1.

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 µm df, Catalog # 11139. The rear column is RTX-CLPesticides2 which is 30 meters, 0.32 mm ID, 0.25 µm df, Catalog #: 11324. The analysis of Herbicide group1s was based on method 8151A and extraction was done based on method 3510.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Retention Times were met for all analysis.

The RPD were met for all analysis.

The Blank Spike met requirements for all compounds.

The Blank Spike Duplicate met requirements for all compounds.

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:

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



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Phone: 908 789 8900 Fax: 908 789 8922

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 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

ORDER ID: Q3015

MATRIX: Water

METHOD: 8151A/3510

	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 Blank Spike met requirements for all compounds.			
The Blank Spike Duplicate met requirements for all compounds.			
The RPD were met for all analysis.			
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:

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3015

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: SOHIL JODHANI

Date: 09/25/2025

LAB CHRONICLE

OrderID:	Q3015	OrderDate:	9/4/2025 10:14:00 AM
Client:	Alliance Technical Group, LLC - Newark	Project:	NJ Waste Water PT
Contact:	Mohammad Ahmed	Location:	QA Office, VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3015-09	WP0925-PT-PEST-WP	WATER	PESTICIDE Group1	8081B	09/02/25	09/08/25	09/08/25	09/04/25
Q3015-09DL	WP0925-PT-PEST-WP DL	WATER	PESTICIDE Group1	8081B	09/02/25	09/08/25	09/08/25	09/04/25
Q3015-09DL 2	WP0925-PT-PEST-WP DL2	WATER	PESTICIDE Group1	8081B	09/02/25	09/08/25	09/08/25	09/04/25
Q3015-11	WP0925-PT-CHLR-WP	WATER	PESTICIDE Group2	8081B	09/02/25	09/10/25	09/10/25	09/04/25
Q3015-13	WP0925-PT-TXP-WP	WATER	PESTICIDE Group3	8081B	09/02/25	09/10/25	09/10/25	09/04/25
Q3015-13DL	WP0925-PT-TXP-WPD L	WATER	PESTICIDE Group3	8081B	09/02/25	09/10/25	09/10/25	09/04/25
Q3015-15	WP0925-PT-PCBW-W P	WATER	PCB	8082A	09/02/25	09/08/25	09/09/25	09/04/25
Q3015-17	WP0925-PT-HERB-WP	WATER	Herbicide group1	8151A	09/02/25	09/05/25	09/09/25	09/04/25
Q3015-18	WP0925-RR-GAS-WP	Water	Gasoline Range Organics	8015D	09/02/25		09/17/25	09/04/25
Q3015-19	WP0925-RR-DIES-WP	Water	Diesel Range Organics	8015D	09/02/25	09/17/25	09/18/25	09/04/25

Hit Summary Sheet
SW-846

SDG No.: Q3015

Order ID: Q3015

Client: Alliance Technical Group, LLC - Newark

Project ID: NJ Waste Water PT

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
Client ID : WP0925-PT-HERB-WP							
Q3015-17	WP0925-PT-HERB-W WATER	DICAMBA	7.20		0.65	2.00	ug/L
Q3015-17	WP0925-PT-HERB-W WATER	DALAPON	12.3	P	0.98	2.00	ug/L
Q3015-17	WP0925-PT-HERB-W WATER	DICHLORPROP	4.40		0.76	2.00	ug/L
Q3015-17	WP0925-PT-HERB-W WATER	2,4-D	6.40		0.92	2.00	ug/L
Q3015-17	WP0925-PT-HERB-W WATER	2,4,5-TP (Silvex)	7.00		0.78	2.00	ug/L
Q3015-17	WP0925-PT-HERB-W WATER	2,4,5-T	7.20		0.71	2.00	ug/L
Q3015-17	WP0925-PT-HERB-W WATER	2,4-DB	2.70		0.65	2.00	ug/L
Q3015-17	WP0925-PT-HERB-W WATER	DINOSEB	2.40		0.89	2.00	ug/L
Q3015-17	WP0925-PT-HERB-W WATER	Pentachlorophenol	5.80		0.70	2.00	ug/L
Q3015-17	WP0925-PT-HERB-W WATER	4-Nitrophenol	7.30		0.83	2.00	ug/L
Q3015-17	WP0925-PT-HERB-W WATER	PICLORAM	3.40		0.63	2.00	ug/L
Q3015-17	WP0925-PT-HERB-W WATER	DCPA	4.90		0.82	2.00	ug/L
Q3015-17	WP0925-PT-HERB-W WATER	3,5-DICHLOROBENZOIC AC	2.60		0.70	2.00	ug/L
Total Concentration:			73.600				



QC SUMMARY

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Surrogate Summary

SDG No.: Q3015

Client: Alliance Technical Group, LLC - Newark

Analytical Method: 8151A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%)	
								Low	High
I.BLK-PS031667.D	PIBLK-PS031667.D	2,4-DCAA	1	500	445	89		61	136
		2,4-DCAA	2	500	525	105		61	136
I.BLK-PS031674.D	PIBLK-PS031674.D	2,4-DCAA	1	500	445	89		61	136
		2,4-DCAA	2	500	515	103		61	136
PB169584BL	PB169584BL	2,4-DCAA	1	500	443	89		61	136
		2,4-DCAA	2	500	510	102		61	136
Q3015-17	WP0925-PT-HERB-WP	2,4-DCAA	1	500	478	96		61	136
		2,4-DCAA	2	500	480	96		61	136
PB169584BS	PB169584BS	2,4-DCAA	1	500	527	105		61	136
		2,4-DCAA	2	500	495	99		61	136
PB169584BSD	PB169584BSD	2,4-DCAA	1	500	528	106		61	136
		2,4-DCAA	2	500	492	98		61	136
I.BLK-PS031682.D	PIBLK-PS031682.D	2,4-DCAA	1	500	450	90		61	136
		2,4-DCAA	2	500	536	107		61	136

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	Q3015	Analytical Method:	8151A
Client:	Alliance Technical Group, LLC - Newark	Datafile :	PS031678.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB169584BS (Column 1)	DICAMBA	5	4.90	ug/L	98				67	136		
	MCP	0.5	0.45	ug/L	91				70	130		
	Dalapon	5	4.60	ug/L	92				70	130		
	MCPA	0.5	0.46	ug/L	92				70	130		
	DICHLORPROP	5	4.90	ug/L	98				88	119		
	2,4-D	5	5.50	ug/L	110				83	130		
	2,4,5-TP(Silvex)	5	5.00	ug/L	100				78	127		
	2,4,5-T	5	4.90	ug/L	98				74	129		
	2,4-DB	5	4.80	ug/L	96				53	149		
	Dinoseb	5	5.20	ug/L	104				72	131		
	Pentachlorophenol	5	5.30	ug/L	106				70	130		
	4-Nitrophenol	5	5.10	ug/L	102				70	130		
	PICLORAM	5	4.60	ug/L	92				70	130		
	DCPA	5	5.10	ug/L	102				70	130		
	3,5-DICHLOROBENZOIC	5	4.80	ug/L	96				70	130		
PB169584BS (Column 2)	DICAMBA	5	4.70	ug/L	94				67	136		
	MCP	0.5	0.49	ug/L	99				70	130		
	Dalapon	5	4.70	ug/L	94				70	130		
	MCPA	0.5	0.47	ug/L	94				70	130		
	DICHLORPROP	5	4.90	ug/L	98				88	119		
	2,4-D	5	4.70	ug/L	94				83	130		
	2,4,5-TP(Silvex)	5	4.90	ug/L	98				78	127		
	2,4,5-T	5	4.70	ug/L	94				74	129		
	2,4-DB	5	4.50	ug/L	90				53	149		
	Dinoseb	5	5.10	ug/L	102				72	131		
	Pentachlorophenol	5	5.00	ug/L	100				70	130		
	4-Nitrophenol	5	4.00	ug/L	80				70	130		
	PICLORAM	5	4.50	ug/L	90				70	130		
	DCPA	5	5.10	ug/L	102				70	130		
	3,5-DICHLOROBENZOIC	5	4.90	ug/L	98				70	130		

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	Q3015	Analytical Method:	8151A
Client:	Alliance Technical Group, LLC - Newark	Datafile :	PS031679.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB169584BSD (Column 1)	DICAMBA	5	4.90	ug/L	98	0			67	136	20
	MCP	0.5	0.46	ug/L	92	1			70	130	20
	Dalapon	5	4.70	ug/L	94	2			70	130	20
	MCPA	0.5	0.46	ug/L	92	0			70	130	20
	DICHLORPROP	5	4.90	ug/L	98	0			88	119	20
	2,4-D	5	4.80	ug/L	96	14			83	130	20
	2,4,5-TP(Silvex)	5	5.00	ug/L	100	0			78	127	20
	2,4,5-T	5	4.90	ug/L	98	0			74	129	20
	2,4-DB	5	4.80	ug/L	96	0			53	149	20
	Dinoseb	5	5.20	ug/L	104	0			72	131	20
	Pentachlorophenol	5	5.30	ug/L	106	0			70	130	20
	4-Nitrophenol	5	5.00	ug/L	100	2			70	130	20
	PICLORAM	5	4.70	ug/L	94	2			70	130	20
	DCPA	5	5.10	ug/L	102	0			70	130	20
	3,5-DICHLOROBENZOIC	5	4.80	ug/L	96	0			70	130	20
PB169584BSD (Column 2)	DICAMBA	5	4.70	ug/L	94	0			67	136	20
	MCP	0.5	0.49	ug/L	98	1			70	130	20
	Dalapon	5	4.70	ug/L	94	0			70	130	20
	MCPA	0.5	0.47	ug/L	94	0			70	130	20
	DICHLORPROP	5	4.90	ug/L	98	0			88	119	20
	2,4-D	5	4.70	ug/L	94	0			83	130	20
	2,4,5-TP(Silvex)	5	4.90	ug/L	98	0			78	127	20
	2,4,5-T	5	4.70	ug/L	94	0			74	129	20
	2,4-DB	5	4.50	ug/L	90	0			53	149	20
	Dinoseb	5	5.20	ug/L	104	2			72	131	20
	Pentachlorophenol	5	5.00	ug/L	100	0			70	130	20
	4-Nitrophenol	5	4.00	ug/L	80	0			70	130	20
	PICLORAM	5	4.70	ug/L	94	4			70	130	20
	DCPA	5	5.00	ug/L	100	2			70	130	20
	3,5-DICHLOROBENZOIC	5	4.90	ug/L	98	0			70	130	20

4C

PESTICIDE METHOD BLANK SUMMARY

Client ID

PB169584BL

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q3015

Lab Sample ID: PB169584BL

Lab File ID: PS031676.D

Matrix: (soil/water) WATER

Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N

Date Extracted: 09/05/2025

Date Analyzed (1): 09/09/2025

Date Analyzed (2): 09/09/2025

Time Analyzed (1): 14:45

Time Analyzed (2): 14:45

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
WP0925-PT-HERB-WP	Q3015-17	PS031677.D	09/09/2025	09/09/2025
PB169584BS	PB169584BS	PS031678.D	09/09/2025	09/09/2025
PB169584BSD	PB169584BSD	PS031679.D	09/09/2025	09/09/2025

COMMENTS: _____



SAMPLE DATA

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	09/02/25
Project:	NJ Waste Water PT	Date Received:	09/04/25
Client Sample ID:	WP0925-PT-HERB-WP	SDG No.:	Q3015
Lab Sample ID:	Q3015-17	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031677.D	1	09/05/25 09:20	09/09/25 15:09	PB169584

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
93-65-2	MCPP	0.079	U	0.079	0.20	ug/L
1918-00-9	DICAMBA	7.20		0.65	2.00	ug/L
75-99-0	DALAPON	12.3	P	0.98	2.00	ug/L
94-74-6	MCPA	0.10	U	0.10	0.20	ug/L
120-36-5	DICHLORPROP	4.40		0.76	2.00	ug/L
94-75-7	2,4-D	6.40		0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	7.00		0.78	2.00	ug/L
93-76-5	2,4,5-T	7.20		0.71	2.00	ug/L
94-82-6	2,4-DB	2.70		0.65	2.00	ug/L
88-85-7	DINOSEB	2.40		0.89	2.00	ug/L
87-86-5	Pentachlorophenol	5.80		0.70	2.00	ug/L
100-02-7	4-Nitrophenol	7.30		0.83	2.00	ug/L
1918-02-1	PICLORAM	3.40		0.63	2.00	ug/L
1861-32-1	DCPA	4.90		0.82	2.00	ug/L
51-36-5	3,5-DICHLOROBENZOIC AC	2.60		0.70	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	480		61 - 136	96%	SPK: 500

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	09/02/25
Project:	NJ Waste Water PT	Date Received:	09/04/25
Client Sample ID:	WP0925-PT-HERB-WP	SDG No.:	Q3015
Lab Sample ID:	Q3015-17	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide group1
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031677.D	1	09/05/25 09:20	09/09/25 15:09	PB169584

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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\PS090925\
 Data File : PS031677.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09 Sep 2025 15:09
 Operator : AR\AJ
 Sample : Q3015-17
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 WP0925-PT-HERB-WP

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/10/2025
 Supervised By :mohammad ahmed 09/11/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Sep 10 01:38:56 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090925.M
 Quant Title : 8080.M
 QLast Update : Tue Sep 09 13:56:38 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	7.286	7.744	1721.1E6	436.3E6	477.868	480.024
Target Compounds							
1) T	Dalapon	2.673	2.693	3789.7E6	3469.1E6	655.570m	1231.219 #
2) T	3,5-DICHL...	6.455	6.698	1256.1E6	397.3E6	235.511	260.560
3) T	4-Nitroph...	7.092	7.287	806.7E6	904.4E6	731.251	716.177
5) T	DICAMBA	7.469	7.939	10665.3E6	4678.7E6	683.818	719.041
8) T	DICHLORPROP	8.178	8.659	1554.3E6	599.9E6	436.392	412.308
9) T	2,4-D	8.414	8.999	2182.4E6	1018.3E6	637.082	618.980
10) T	Pentachlo...	8.708	9.509	30948.5E6	20924.6E6	582.901	527.193
11) T	2,4,5-TP ...	9.285	9.892	14302.6E6	10500.4E6	681.933	697.504
12) T	2,4,5-T	9.582	10.322	12638.8E6	9752.5E6	690.714	724.716
13) T	2,4-DB	10.161	10.894	632.3E6	282.3E6	271.071m	263.780
14) T	DINOSEB	11.356	11.267	3442.4E6	2055.9E6	238.682	211.502
15) T	Picloram	11.190	12.392	6080.4E6	7615.1E6	337.595	321.540
16) T	DCPA	11.651	12.307	9804.9E6	11847.9E6	363.818	491.530 #

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090925\
Data File : PS031677.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2025 15:09
Operator : AR\AJ
Sample : Q3015-17
Misc :
ALS Vial : 10 Sample Multiplier: 1

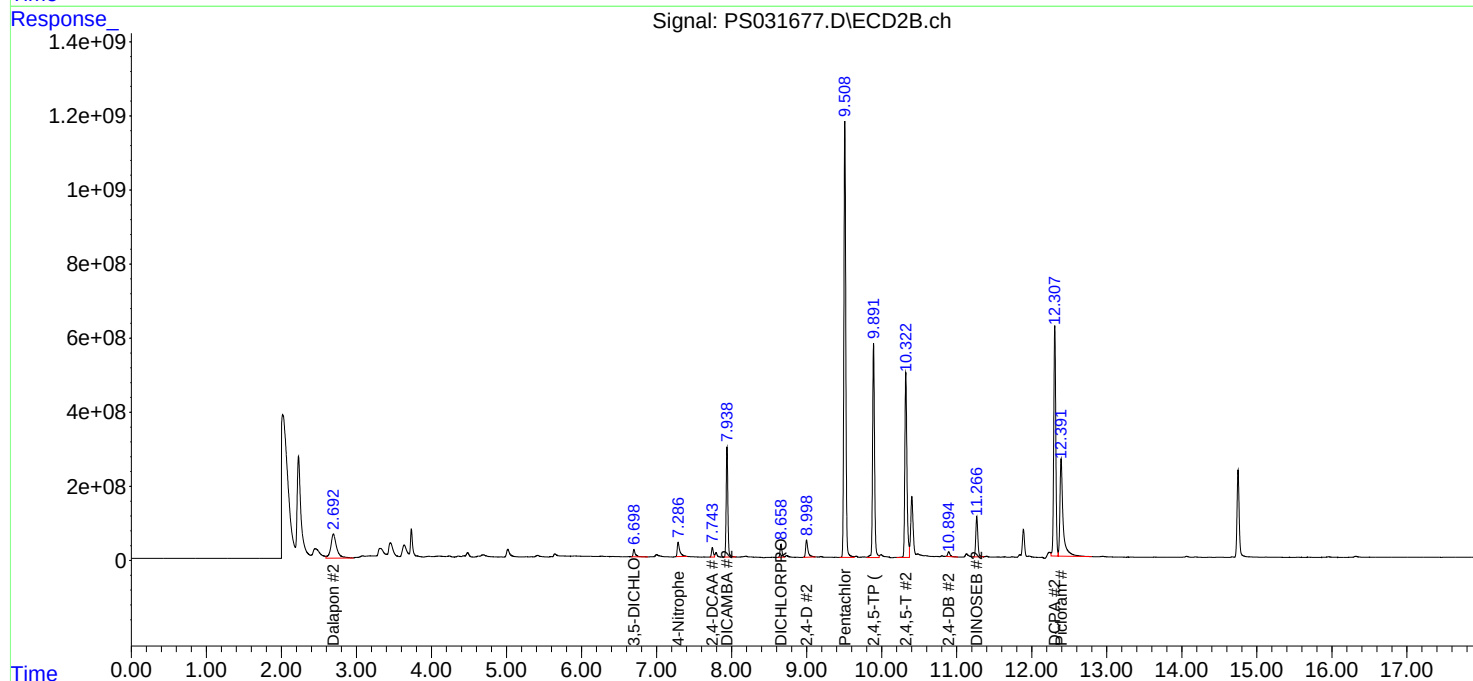
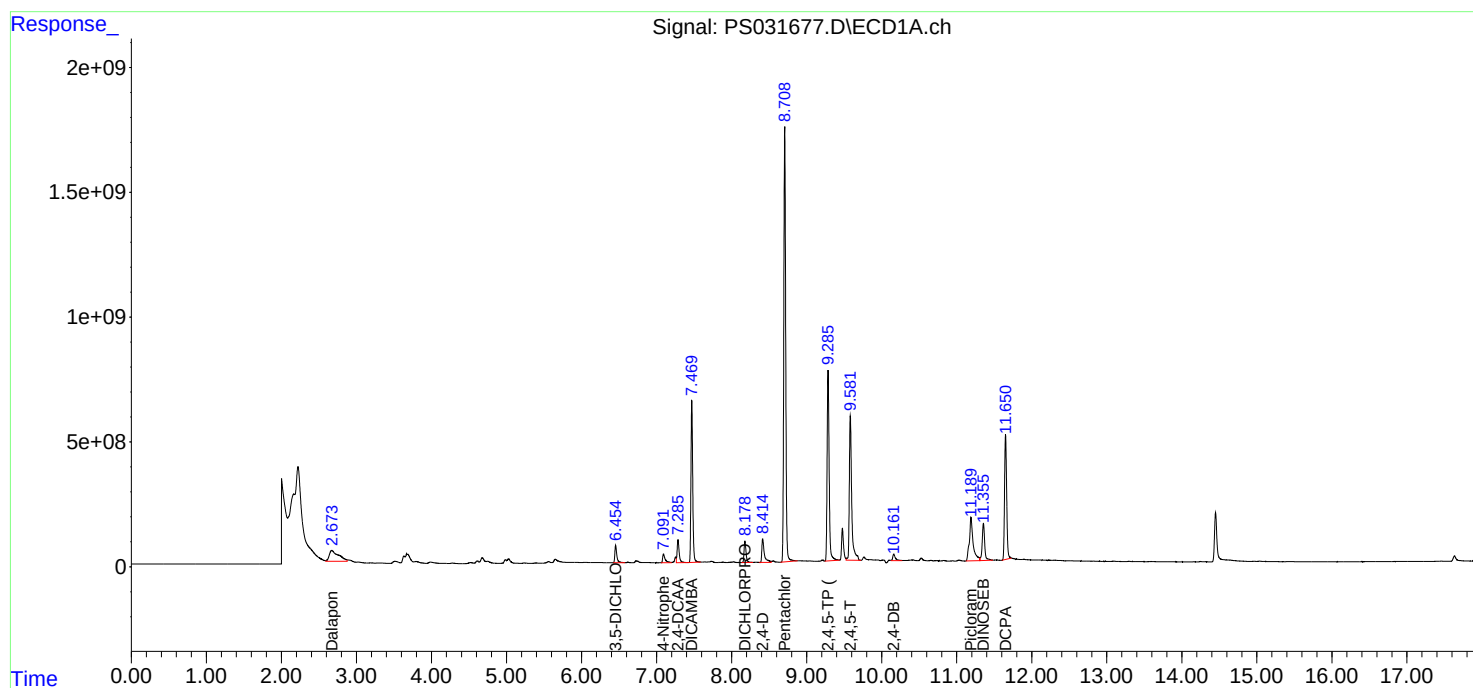
Instrument :
ECD_S
ClientSampleId :
WP0925-PT-HERB-WP

Manual Integrations
APPROVED

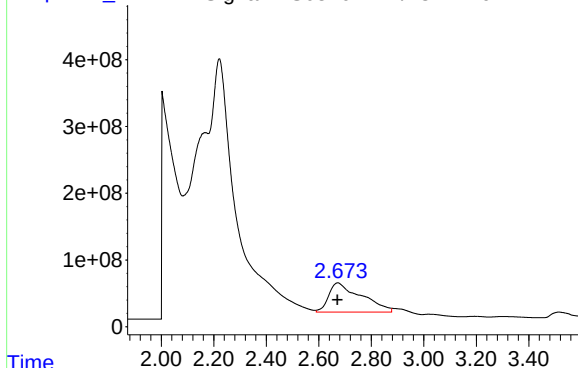
Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 01:38:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090925.M
Quant Title : 8080.M
QLast Update : Tue Sep 09 13:56:38 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



Response_ Signal: PS031677.D\ECD1A.ch



#1 Dalapon

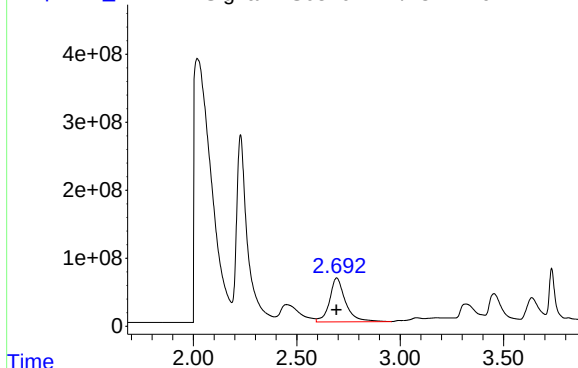
R.T.: 2.673 min
Delta R.T.: 0.002 min
Response: 3789684153
Conc: 655.57 ng/ml

Instrument :
ECD_S
ClientSampleId :
WP0925-PT-HERB-WP

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025

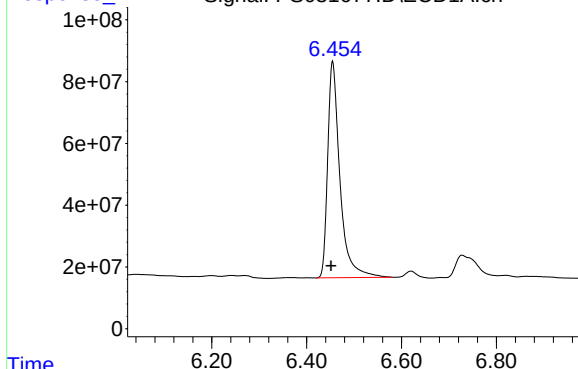
Time Response_ Signal: PS031677.D\ECD2B.ch



#1 Dalapon

R.T.: 2.693 min
Delta R.T.: 0.001 min
Response: 3469115716
Conc: 1231.22 ng/ml

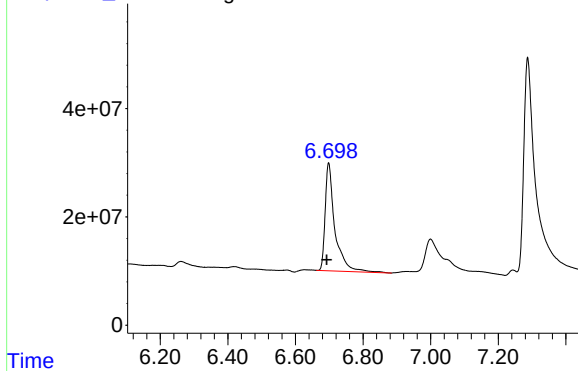
Response_ Signal: PS031677.D\ECD1A.ch



#2 3,5-DICHLOROBENZOIC ACID

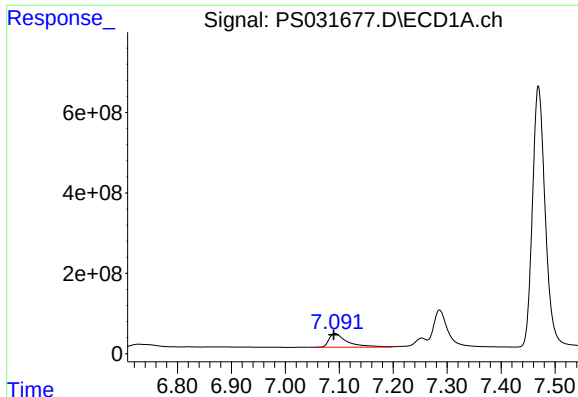
R.T.: 6.455 min
Delta R.T.: 0.003 min
Response: 1256065930
Conc: 235.51 ng/ml

Time Response_ Signal: PS031677.D\ECD2B.ch



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.698 min
Delta R.T.: 0.006 min
Response: 397345726
Conc: 260.56 ng/ml



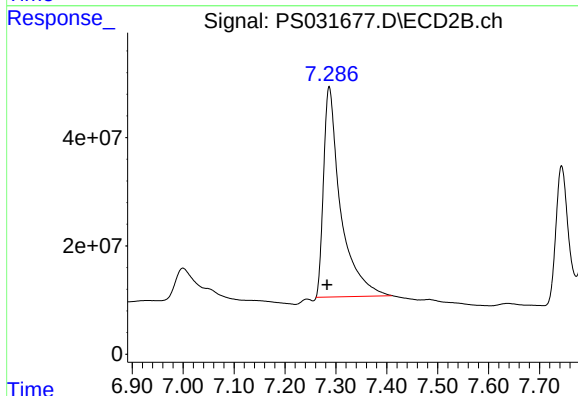
#3 4-Nitrophenol

R.T.: 7.092 min
Delta R.T.: 0.003 min
Response: 806722362
Conc: 731.25 ng/ml

Instrument :
ECD_S
ClientSampleId :
WP0925-PT-HERB-WP

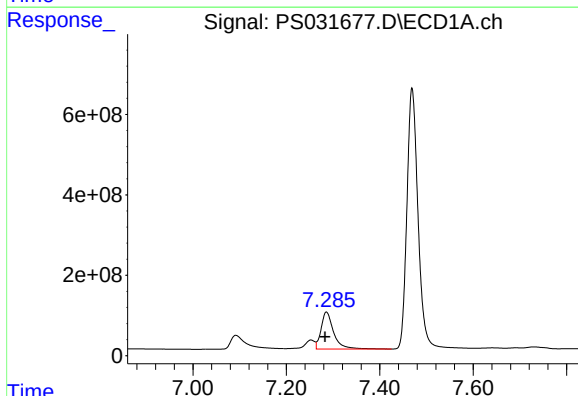
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025



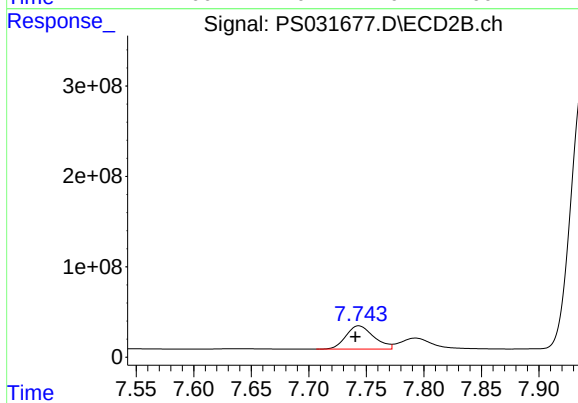
#3 4-Nitrophenol

R.T.: 7.287 min
Delta R.T.: 0.004 min
Response: 904378544
Conc: 716.18 ng/ml



#4 2,4-DCAA

R.T.: 7.286 min
Delta R.T.: 0.003 min
Response: 1721055322
Conc: 477.87 ng/ml

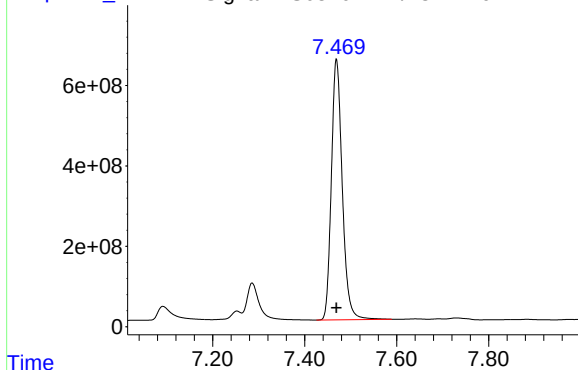


#4 2,4-DCAA

R.T.: 7.744 min
Delta R.T.: 0.003 min
Response: 436293412
Conc: 480.02 ng/ml

Response_ Signal: PS031677.D\ECD1A.ch

#5 DICAMBA



R.T.: 7.469 min
Delta R.T.: 0.000 min
Response: 10665308610
Conc: 683.82 ng/ml

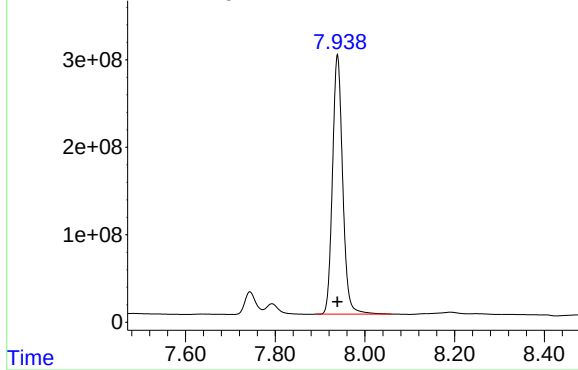
Instrument :
ECD_S
ClientSampleId :
WP0925-PT-HERB-WP

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025

Time Response_ Signal: PS031677.D\ECD2B.ch

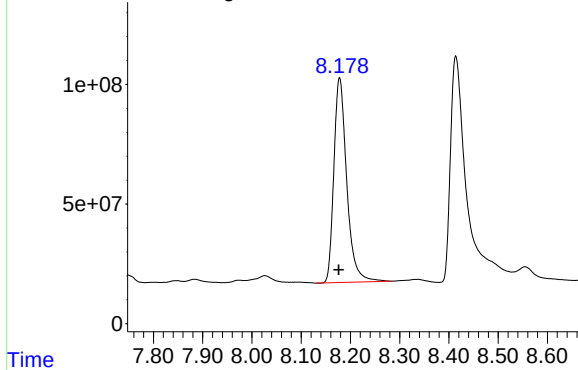
#5 DICAMBA



R.T.: 7.939 min
Delta R.T.: 0.000 min
Response: 4678692864
Conc: 719.04 ng/ml

Time Response_ Signal: PS031677.D\ECD1A.ch

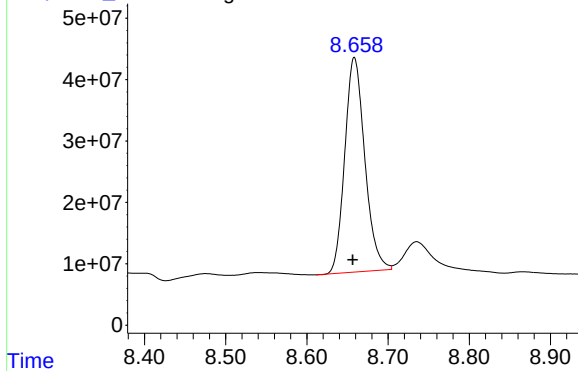
#8 DICHLORPROP



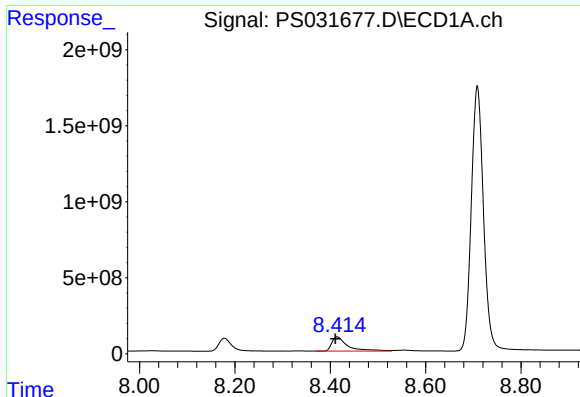
R.T.: 8.178 min
Delta R.T.: 0.002 min
Response: 1554323076
Conc: 436.39 ng/ml

Time Response_ Signal: PS031677.D\ECD2B.ch

#8 DICHLORPROP



R.T.: 8.659 min
Delta R.T.: 0.002 min
Response: 599932478
Conc: 412.31 ng/ml



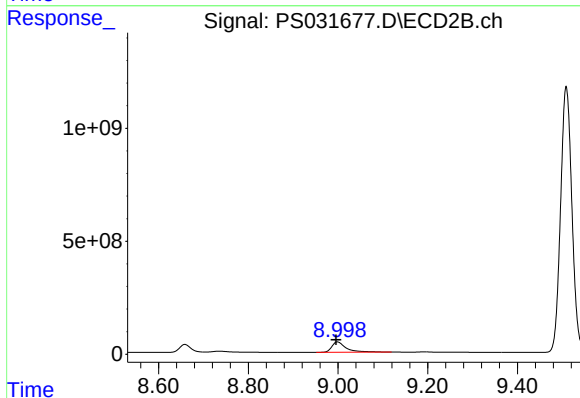
#9 2,4-D

R.T.: 8.414 min
Delta R.T.: 0.004 min
Response: 2182414964
Conc: 637.08 ng/ml

Instrument :
ECD_S
ClientSampleId :
WP0925-PT-HERB-WP

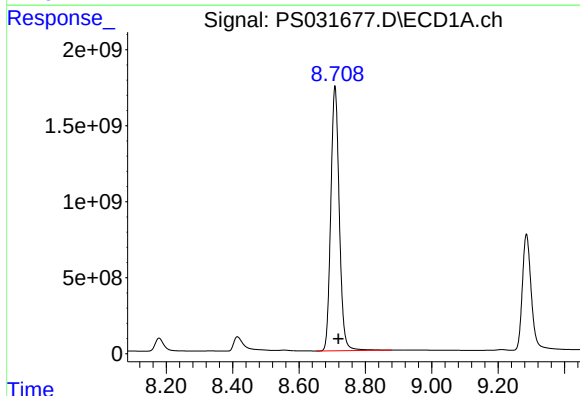
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025



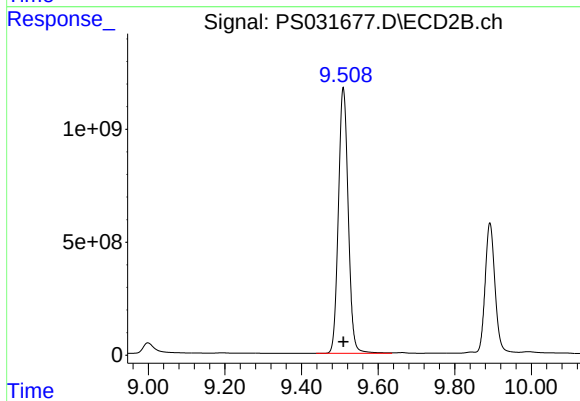
#9 2,4-D

R.T.: 8.999 min
Delta R.T.: 0.003 min
Response: 1018290027
Conc: 618.98 ng/ml



#10 Pentachlorophenol

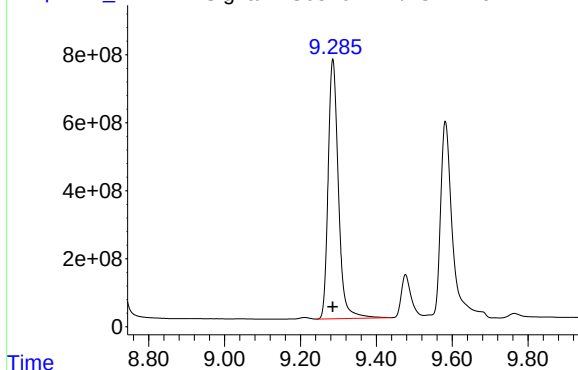
R.T.: 8.708 min
Delta R.T.: -0.010 min
Response: 30948474726
Conc: 582.90 ng/ml



#10 Pentachlorophenol

R.T.: 9.509 min
Delta R.T.: 0.000 min
Response: 20924568282
Conc: 527.19 ng/ml

Response_ Signal: PS031677.D\ECD1A.ch



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

R.T.: 9.285 min
Delta R.T.: 0.000 min
Response: 14302646824
Conc: 681.93 ng/ml

Instrument :

ECD_S

ClientSampleId :

WP0925-PT-HERB-WP

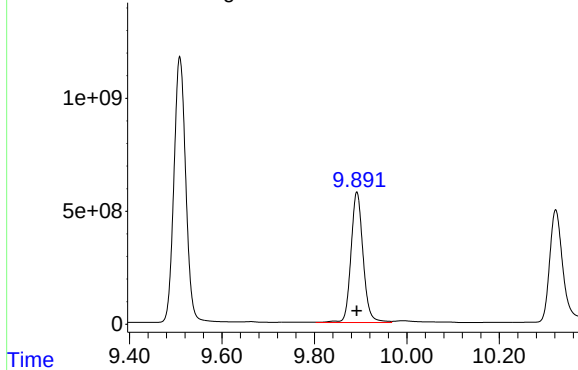
Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 09/10/2025

Supervised By :mohammad ahmed 09/11/2025

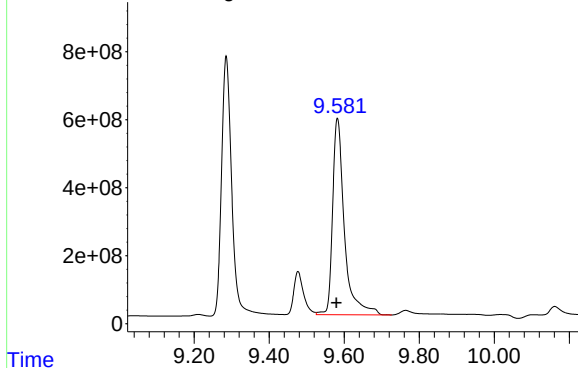
Response_ Signal: PS031677.D\ECD2B.ch



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

R.T.: 9.892 min
Delta R.T.: 0.000 min
Response: 10500448814
Conc: 697.50 ng/ml

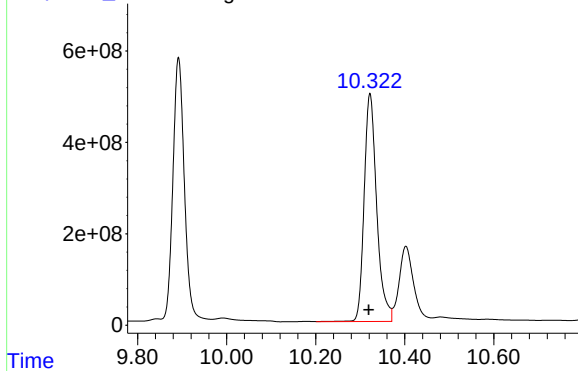
Response_ Signal: PS031677.D\ECD1A.ch



#12 2,4,5-T

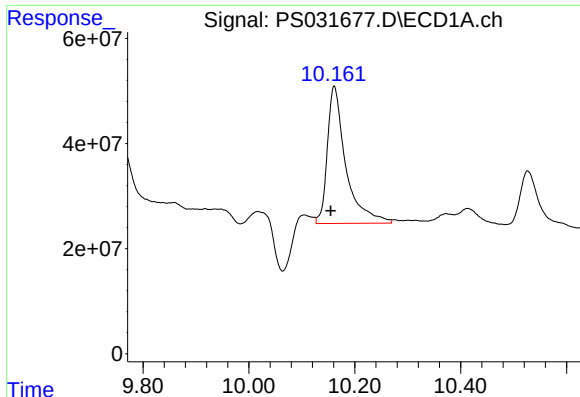
R.T.: 9.582 min
Delta R.T.: 0.003 min
Response: 12638806315
Conc: 690.71 ng/ml

Response_ Signal: PS031677.D\ECD2B.ch



#12 2,4,5-T

R.T.: 10.322 min
Delta R.T.: 0.003 min
Response: 9752521676
Conc: 724.72 ng/ml



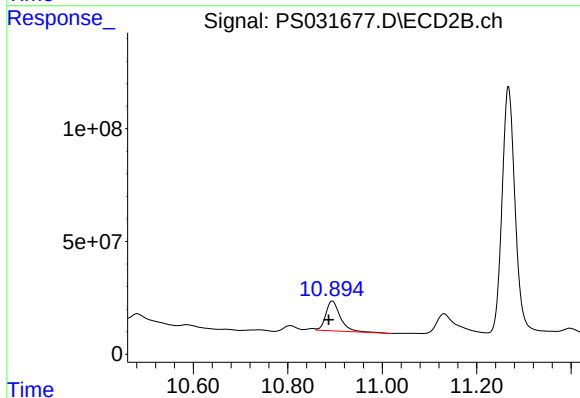
#13 2,4-DB

R.T.: 10.161 min
Delta R.T.: 0.006 min
Response: 632344301
Conc: 271.07 ng/ml

Instrument :
ECD_S
ClientSampleId :
WP0925-PT-HERB-WP

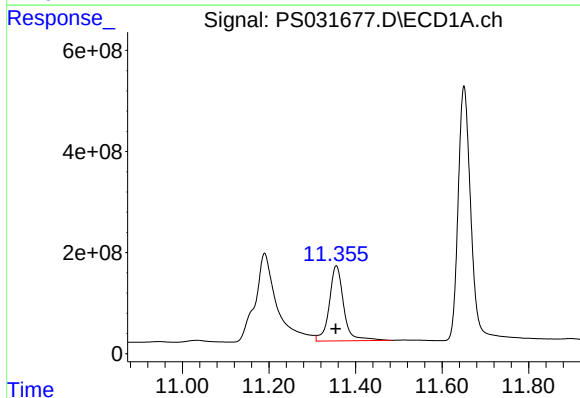
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025



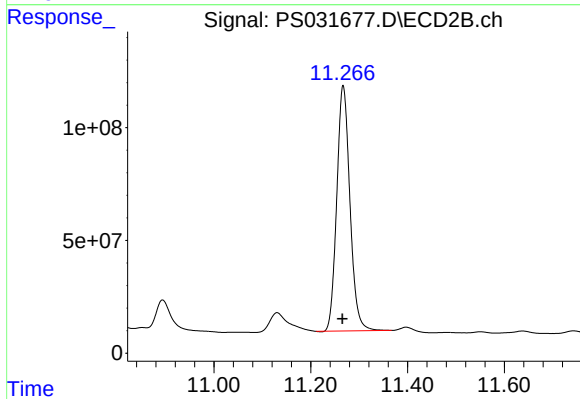
#13 2,4-DB

R.T.: 10.894 min
Delta R.T.: 0.007 min
Response: 282256507
Conc: 263.78 ng/ml



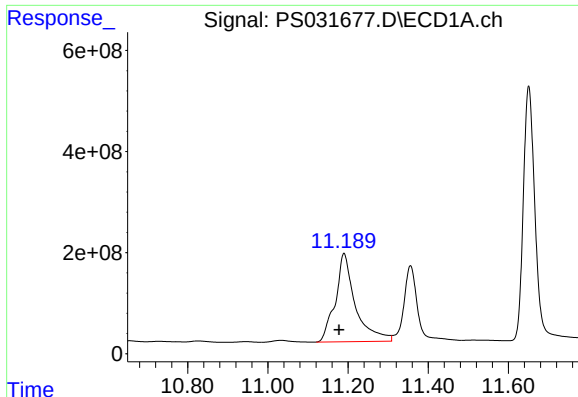
#14 DINOSEB

R.T.: 11.356 min
Delta R.T.: 0.001 min
Response: 3442438766
Conc: 238.68 ng/ml



#14 DINOSEB

R.T.: 11.267 min
Delta R.T.: 0.002 min
Response: 2055940427
Conc: 211.50 ng/ml



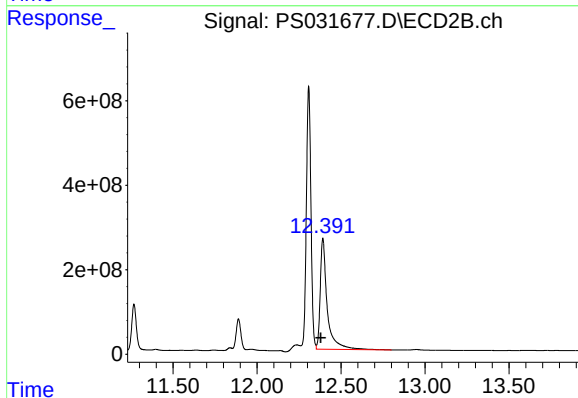
#15 Picloram

R.T.: 11.190 min
Delta R.T.: 0.012 min
Response: 6080448517
Conc: 337.59 ng/ml

Instrument :
ECD_S
ClientSampleId :
WP0925-PT-HERB-WP

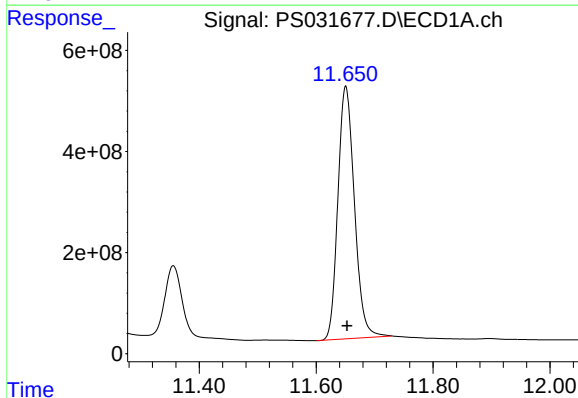
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025



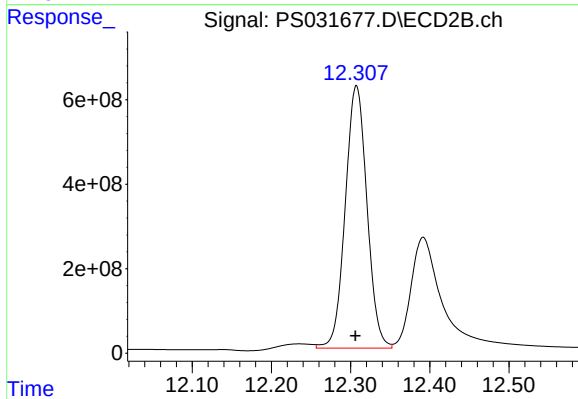
#15 Picloram

R.T.: 12.392 min
Delta R.T.: 0.012 min
Response: 7615113489
Conc: 321.54 ng/ml



#16 DCPA

R.T.: 11.651 min
Delta R.T.: -0.002 min
Response: 9804859732
Conc: 363.82 ng/ml



#16 DCPA

R.T.: 12.307 min
Delta R.T.: 0.001 min
Response: 11847894275
Conc: 491.53 ng/ml



CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Lab Name:	<u>Alliance</u>	Contract:	<u>ALLI03</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q3015</u>
Instrument ID:	<u>ECD_S</u>	Calibration Date(s):	<u>09/09/2025</u> <u>09/09/2025</u>
		Calibration Times:	<u>11:32</u> <u>13:08</u>

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

LAB FILE ID:	RT 200 = <u>PS031668.D</u>	RT 500 = <u>PS031669.D</u>
RT 750 = <u>PS031670.D</u>	RT 1000 = <u>PS031671.D</u>	RT 1500 = <u>PS031672.D</u>

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW	
							FROM	TO
2,4,5-T	9.59	9.59	9.58	9.58	9.58	9.58	9.48	9.68
2,4,5-TP(Silvex)	9.29	9.29	9.29	9.29	9.29	9.29	9.19	9.39
2,4-D	8.42	8.42	8.41	8.41	8.41	8.42	8.32	8.52
2,4-DB	10.17	10.16	10.16	10.16	10.15	10.16	10.06	10.26
2,4-DCAA	7.29	7.29	7.29	7.29	7.28	7.29	7.19	7.39
3,5-DICHLOROBENZOIC	6.46	6.45	6.45	6.45	6.45	6.45	6.35	6.55
4-Nitrophenol	7.10	7.10	7.10	7.09	7.09	7.10	7.00	7.20
Dalapon	2.67	2.67	2.67	2.67	2.67	2.67	2.57	2.77
DCPA	11.65	11.65	11.65	11.65	11.65	11.65	11.55	11.75
DICAMBA	7.47	7.47	7.47	7.47	7.47	7.47	7.37	7.57
DICHLORPROP	8.18	8.18	8.18	8.18	8.18	8.18	8.08	8.28
Dinoseb	11.36	11.36	11.35	11.35	11.35	11.35	11.25	11.45
MCPA	7.79	7.79	7.80	7.80	7.80	7.80	7.70	7.90
MCPP	7.64	7.65	7.65	7.65	7.65	7.65	7.55	7.75
Pentachlorophenol	8.71	8.71	8.71	8.71	8.72	8.71	8.61	8.81
PICLORAM	11.19	11.19	11.18	11.18	11.18	11.18	11.08	11.28

RETENTION TIMES OF INITIAL CALIBRATION

Lab Name:	<u>Alliance</u>	Contract:	<u>ALLI03</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q3015</u>
Instrument ID:	<u>ECD_S</u>	Calibration Date(s):	<u>09/09/2025</u> <u>09/09/2025</u>
		Calibration Times:	<u>11:32</u> <u>13:08</u>

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

LAB FILE ID:	RT 200 = <u>PS031668.D</u>	RT 500 = <u>PS031669.D</u>
RT 750 = <u>PS031670.D</u>	RT 1000 = <u>PS031671.D</u>	RT 1500 = <u>PS031672.D</u>

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW	
							FROM	TO
2,4,5-T	10.33	10.32	10.32	10.32	10.32	10.32	10.22	10.42
2,4,5-TP(Silvex)	9.90	9.89	9.89	9.89	9.89	9.89	9.79	9.99
2,4-D	9.01	9.00	9.00	9.00	9.00	9.00	8.90	9.10
2,4-DB	10.90	10.89	10.89	10.89	10.89	10.89	10.79	10.99
2,4-DCAA	7.75	7.74	7.74	7.74	7.74	7.74	7.64	7.84
3,5-DICHLOROBENZOIC	6.70	6.70	6.70	6.69	6.69	6.70	6.60	6.80
4-Nitrophenol	7.31	7.30	7.29	7.29	7.28	7.29	7.19	7.39
Dalapon	2.69	2.69	2.69	2.69	2.69	2.69	2.59	2.79
DCPA	12.31	12.31	12.31	12.31	12.31	12.31	12.21	12.41
DICAMBA	7.94	7.94	7.94	7.94	7.94	7.94	7.84	8.04
DICHLORPROP	8.66	8.66	8.66	8.66	8.66	8.66	8.56	8.76
Dinoseb	11.27	11.27	11.27	11.27	11.27	11.27	11.17	11.37
MCPA	8.28	8.28	8.28	8.29	8.29	8.28	8.18	8.38
MCPP	8.03	8.04	8.04	8.04	8.04	8.04	7.94	8.14
Pentachlorophenol	9.51	9.51	9.51	9.51	9.51	9.51	9.41	9.61
PICLORAM	12.39	12.39	12.39	12.38	12.38	12.39	12.29	12.49

CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_S

Contract: ALLI03
SDG NO.: Q3015
Calibration Date(s): 09/09/2025 09/09/2025
Calibration Times: 11:32 13:08

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

LAB FILE ID:							
CF 200 = <u>PS031668.D</u>		CF 500 = <u>PS031669.D</u>					
CF 750 = <u>PS031670.D</u>		CF 1000 = <u>PS031671.D</u>		CF 1500 = <u>PS031672.D</u>			
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	1873400000	1865330000	1825140000	1810170000	1775040000	1829820000	2
2,4,5-TP(Silvex)	2331440000	2166830000	2067290000	1999780000	1921510000	2097370000	8
2,4-D	3623310000	3886470000	3301510000	3166900000	3150010000	3425640000	9
2,4-DB	2215860000	2277540000	2345860000	2369030000	2455540000	2332770000	4
2,4-DCAA	3985360000	3774560000	3531130000	3388800000	3327800000	3601530000	8
3,5-DICHLOROBENZOIC	6073940000	5500230000	5212740000	5024560000	4855340000	5333360000	9
4-Nitrophenol	1031240000	1086470000	1110090000	1104820000	1183430000	1103210000	5
Dalapon	6532510000	5897580000	5619660000	5474120000	5379860000	5780740000	8
DCPA	3003910000	2824270000	2657350000	2559670000	2429750000	2694990000	8
DICAMBA	1663350000	1613300000	1548650000	1501170000	1471880000	1559670000	5
DICHLORPROP	4107570000	3655200000	3455830000	3338320000	3251900000	3561760000	10
Dinoseb	1637190000	1437850000	1419320000	1380870000	1336120000	1442270000	8
MCPA	9931970000	1073160000	1117510000	1161040000	1210300000	1111040000	7
MCPP	7202320000	8545650000	9207170000	9571920000	1016910000	8939240000	13
Pentachlorophenol	6275340000	5884250000	5608470000	4924670000	3854200000	5309380000	18
PICLORAM	1667150000	1783190000	1799720000	1857140000	1898340000	1801110000	5

CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_S

Contract: ALLI03
SDG NO.: Q3015

Calibration Date(s): 09/09/2025 09/09/2025
Calibration Times: 11:32 13:08

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

LAB FILE ID:		CF 200 = <u>PS031668.D</u>		CF 500 = <u>PS031669.D</u>			
CF 750 = <u>PS031670.D</u>		CF 1000 = <u>PS031671.D</u>		CF 1500 = <u>PS031672.D</u>			
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	14154100000	13509200000	13386200000	13315900000	12919700000	13457000000	3
2,4,5-TP(Silvex)	16378200000	15425200000	14913400000	14552800000	14002000000	15054300000	6
2,4-D	17980800000	16638700000	16190900000	15896900000	15548200000	16451100000	6
2,4-DB	12892400000	10291000000	10179800000	10168500000	9970580000	10700400000	12
2,4-DCAA	9750580000	9127990000	8929830000	8899450000	8737130000	9088990000	4
3,5-DICHLOROBENZOIC	16142100000	15923100000	15228300000	14467600000	14487100000	15249700000	5
4-Nitrophenol	12201400000	11118700000	12634800000	12826000000	14358500000	12627900000	9
Dalapon	29728700000	29469300000	27731600000	27027200000	26924500000	28176300000	5
DCPA	25427500000	24888100000	24060700000	23602700000	22541400000	24104100000	5
DICAMBA	69061600000	65615500000	64314900000	63579400000	62771000000	65068500000	4
DICHLORPROP	15009500000	15309800000	14721900000	13854700000	13857200000	14550600000	5
Dinoseb	10286300000	93939600000	96907600000	96090500000	96233900000	97206800000	3
MCPA	23585800000	28239100000	28883300000	29256200000	30096600000	28012200000	9
MCPP	14698700000	19613000000	20226500000	20359500000	19272500000	18834000000	13
Pentachlorophenol	42719000000	41899200000	40655800000	39505900000	33672800000	39690500000	9
PICLORAM	22602100000	23713500000	24241600000	24000500000	23858600000	23683200000	3

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090925\
 Data File : PS031668.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09 Sep 2025 11:32
 Operator : AR\AJ
 Sample : HSTDICC200
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC200

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 09/10/2025

Supervised By :mohammad ahmed 09/11/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Sep 09 12:44:47 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090925.M
 Quant Title : 8080.M
 QLast Update : Tue Sep 09 12:39:40 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	7.289	7.747	797.1E6	195.0E6	211.780	210.381
Target Compounds							
1) T	Dalapon	2.670	2.691	1188.9E6	541.1E6	197.607	186.724
2) T	3,5-DICHL...	6.455	6.700	1129.8E6	300.2E6	201.899	190.455
3) T	4-Nitroph...	7.104	7.310	187.7E6	222.1E6	173.053m	183.336m
5) T	DICAMBA	7.470	7.940	3127.1E6	1298.4E6	194.419	195.740
6) T	MCPD	7.644	8.033	135.4E6	27633581	16.236m	15.189m
7) T	MCPA	7.793	8.279	184.7E6	43869556	17.407	16.307
8) T	DICHLORPROP	8.180	8.661	772.2E6	282.2E6	206.503	187.947
9) T	2,4-D	8.422	9.009	681.2E6	338.0E6	189.020	199.589
10) T	Pentachlo...	8.708	9.510	11923.1E6	8116.6E6	201.313	194.373
11) T	2,4,5-TP ...	9.286	9.895	4429.7E6	3111.9E6	202.408	199.834
12) T	2,4,5-T	9.588	10.328	3559.5E6	2689.3E6	191.924	196.539
13) T	2,4-DB	10.165	10.895	421.0E6	245.0E6	184.675	220.263
14) T	DINOSEB	11.355	11.267	3077.9E6	1933.8E6	205.452	197.523
15) T	Picloram	11.194	12.394	3167.6E6	4294.4E6	181.003	182.592
16) T	DCPA	11.653	12.308	5767.5E6	4882.1E6	203.906	196.921

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090925\
Data File : PS031668.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2025 11:32
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC200

Manual Integrations

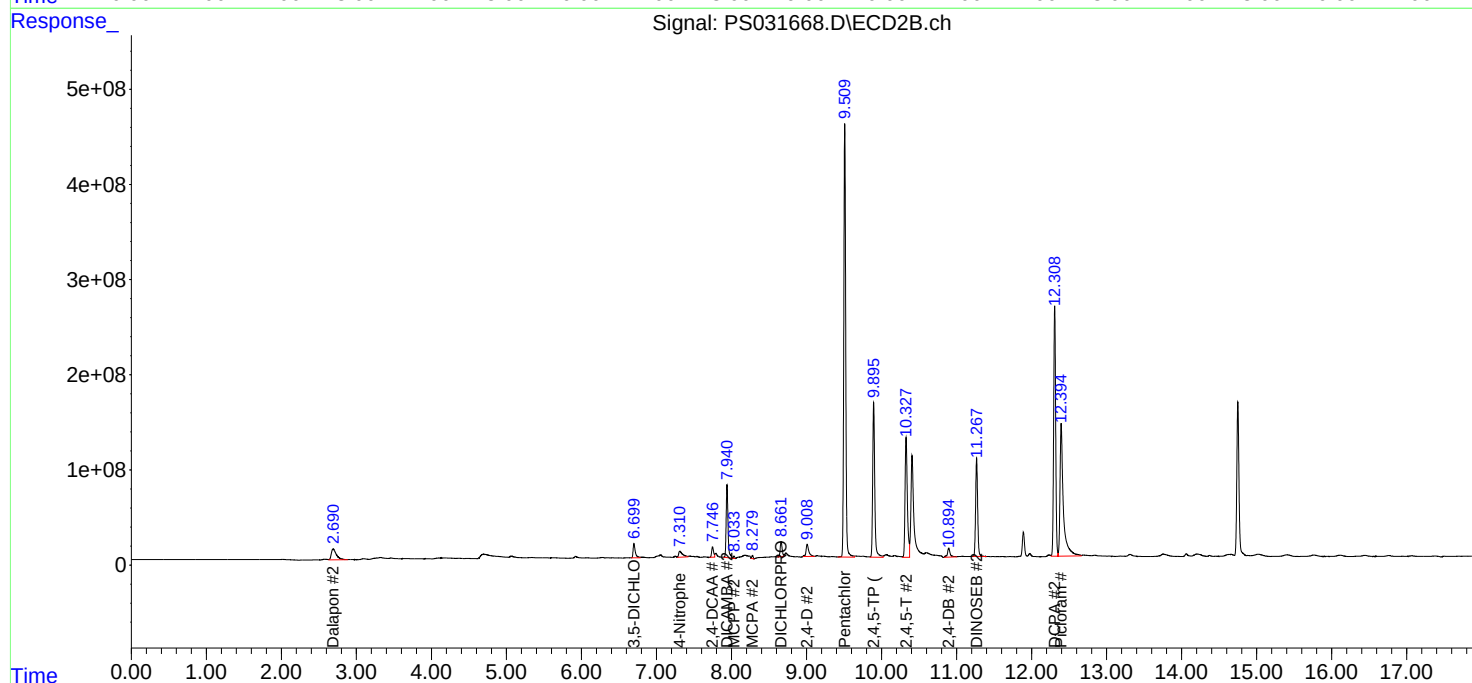
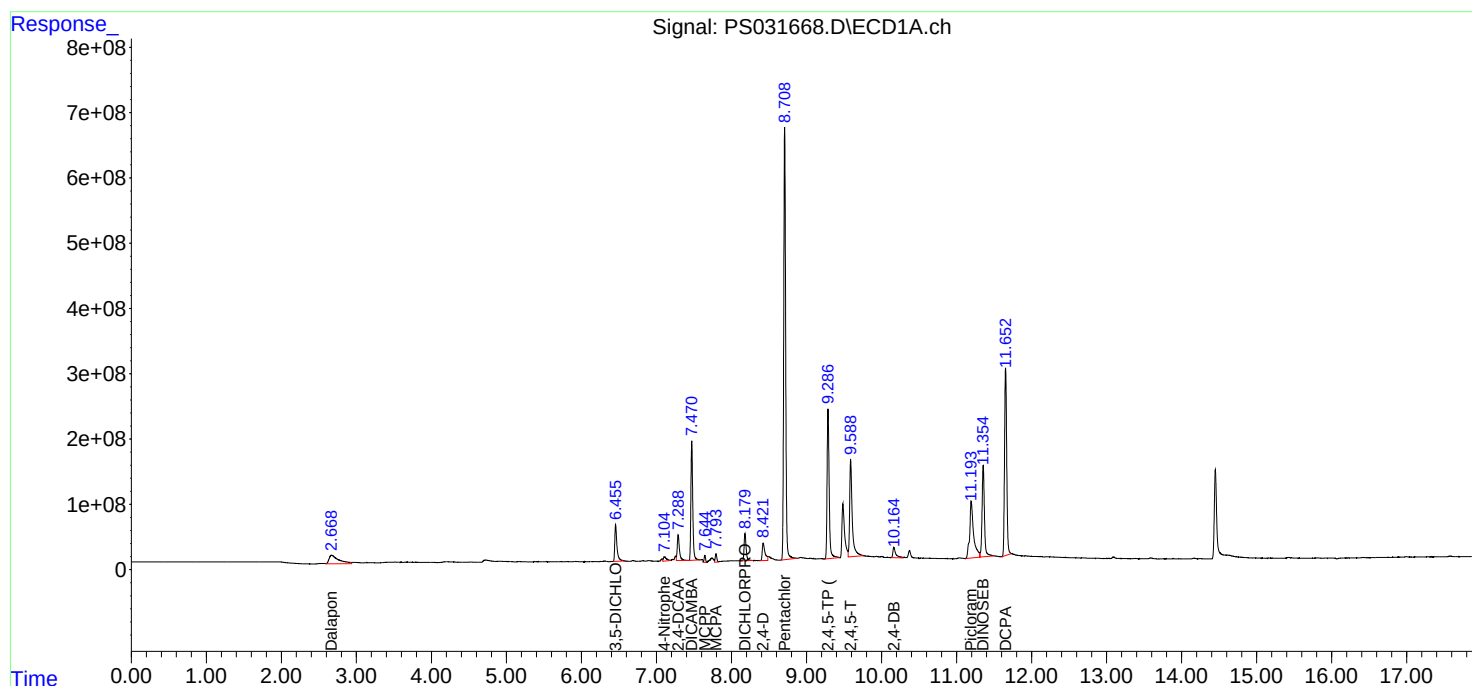
APPROVED

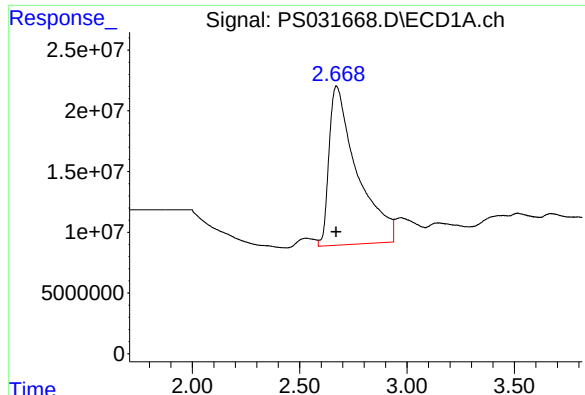
Reviewed By :Abdul Mirza 09/10/2025

Supervised By :mohammad ahmed 09/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 12:44:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090925.M
Quant Title : 8080.M
QLast Update : Tue Sep 09 12:39:40 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





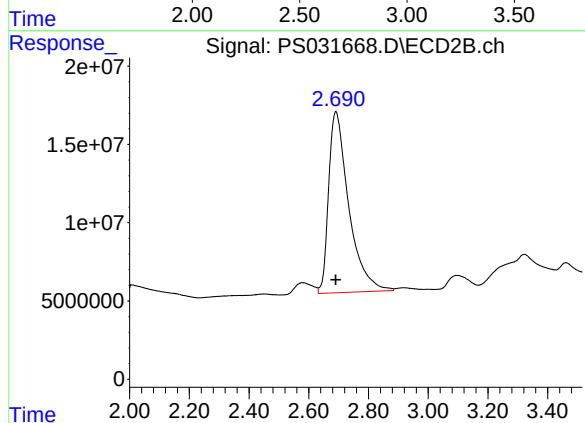
#1 Dalapon

R.T.: 2.670 min
Delta R.T.: 0.000 min
Response: 1188916211
Conc: 197.61 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

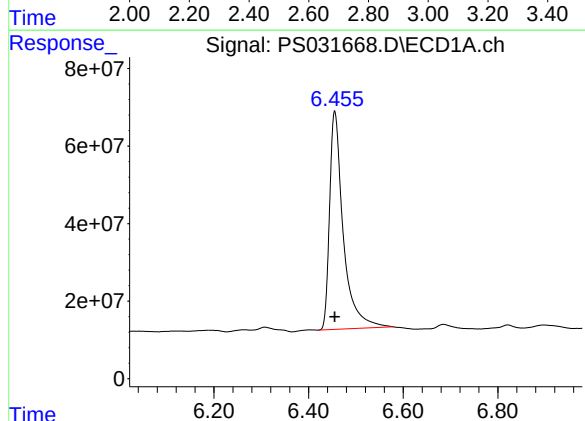
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025



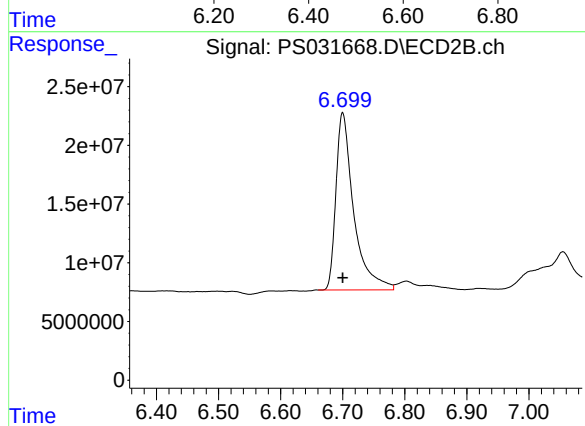
#1 Dalapon

R.T.: 2.691 min
Delta R.T.: 0.000 min
Response: 541062382
Conc: 186.72 ng/ml



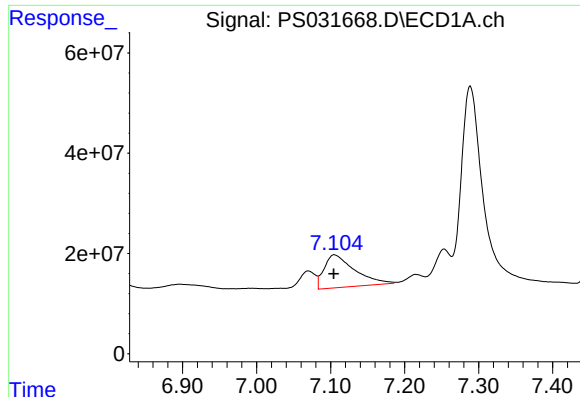
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.455 min
Delta R.T.: 0.000 min
Response: 1129752943
Conc: 201.90 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.700 min
Delta R.T.: 0.000 min
Response: 300243074
Conc: 190.45 ng/ml



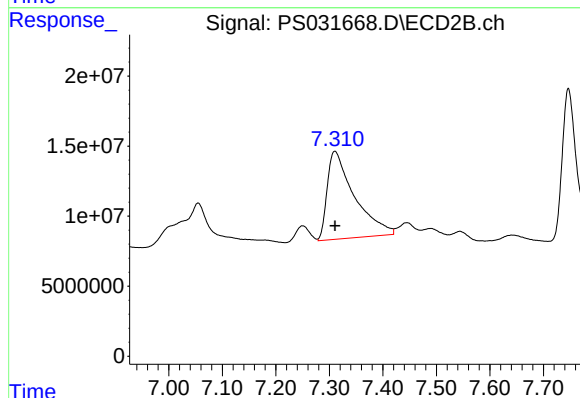
#3 4-Nitrophenol

R.T.: 7.104 min
Delta R.T.: 0.000 min
Response: 187685021
Conc: 173.05 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

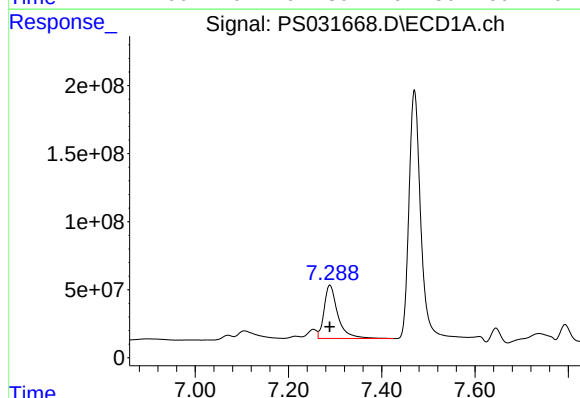
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025



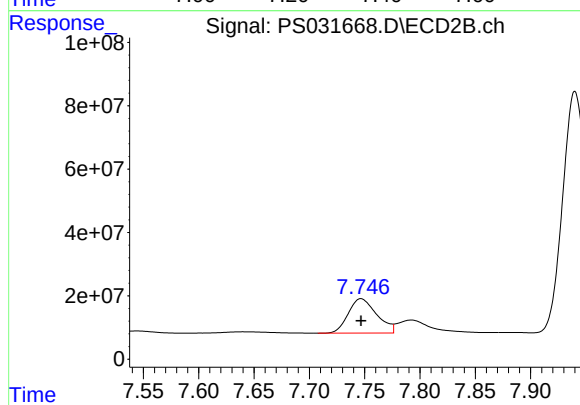
#3 4-Nitrophenol

R.T.: 7.310 min
Delta R.T.: 0.000 min
Response: 222064721
Conc: 183.34 ng/ml m



#4 2,4-DCAA

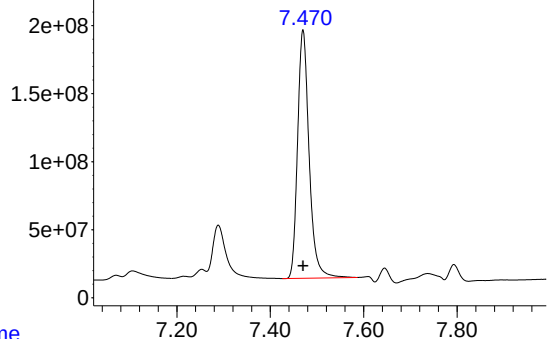
R.T.: 7.289 min
Delta R.T.: 0.000 min
Response: 797071441
Conc: 211.78 ng/ml



#4 2,4-DCAA

R.T.: 7.747 min
Delta R.T.: 0.000 min
Response: 195011573
Conc: 210.38 ng/ml

Response_ Signal: PS031668.D\ECD1A.ch



#5 DICAMBA

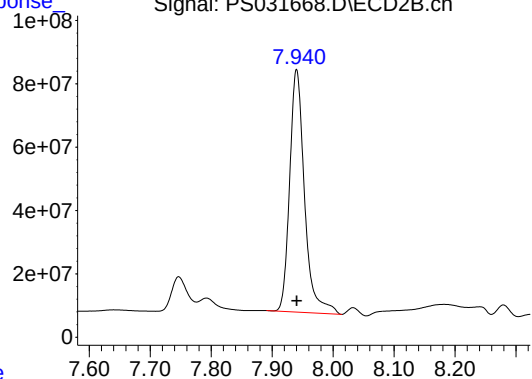
R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 3127097580
Conc: 194.42 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025

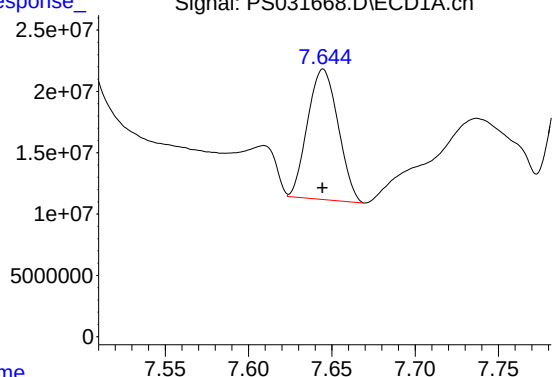
Time Response_ Signal: PS031668.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.940 min
Delta R.T.: 0.000 min
Response: 1298358550
Conc: 195.74 ng/ml

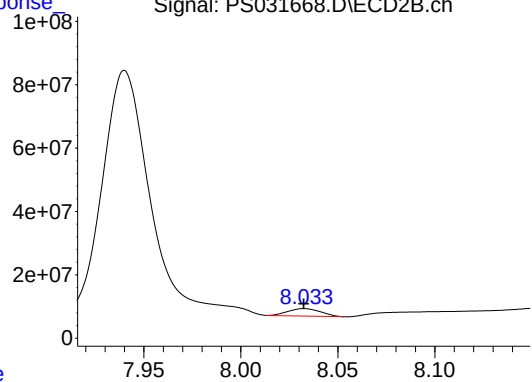
Time Response_ Signal: PS031668.D\ECD1A.ch



#6 MCPP

R.T.: 7.644 min
Delta R.T.: 0.000 min
Response: 135403653
Conc: 16.24 ug/ml m

Time Response_ Signal: PS031668.D\ECD2B.ch



#6 MCPP

R.T.: 8.033 min
Delta R.T.: 0.000 min
Response: 27633581
Conc: 15.19 ug/ml m

Response_ Signal: PS031668.D\ECD1A.ch

#7 MCPA

R.T.: 7.793 min
Delta R.T.: 0.000 min
Response: 184734564
Conc: 17.41 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025

Time 7.65 7.70 7.75 7.80 7.85 7.90

Response_ Signal: PS031668.D\ECD2B.ch

#7 MCPA

R.T.: 8.279 min
Delta R.T.: 0.000 min
Response: 43869556
Conc: 16.31 ug/ml

Time 8.15 8.20 8.25 8.30 8.35 8.40

Response_ Signal: PS031668.D\ECD1A.ch

#8 DICHLORPROP

R.T.: 8.180 min
Delta R.T.: 0.000 min
Response: 772223786
Conc: 206.50 ng/ml

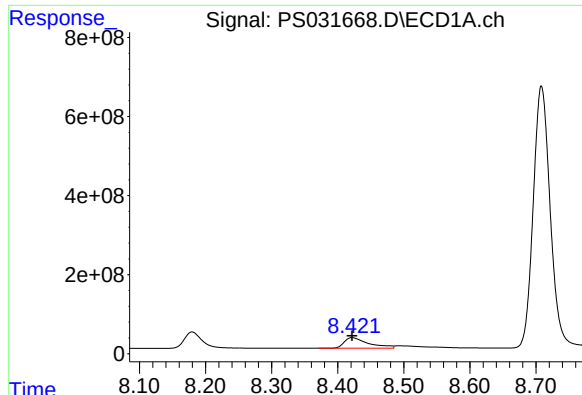
Time 7.80 8.00 8.20 8.40 8.60

Response_ Signal: PS031668.D\ECD2B.ch

#8 DICHLORPROP

R.T.: 8.661 min
Delta R.T.: 0.000 min
Response: 282178459
Conc: 187.95 ng/ml

Time 8.40 8.50 8.60 8.70 8.80



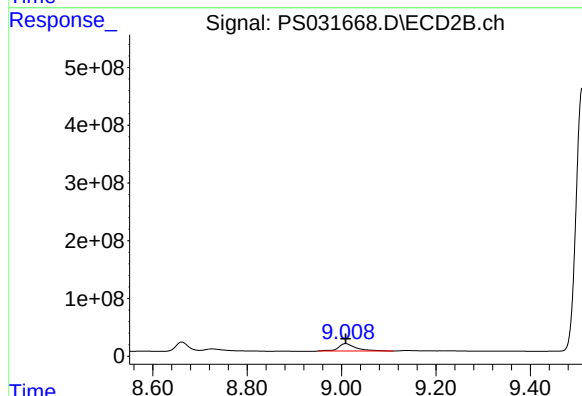
#9 2,4-D

R.T.: 8.422 min
Delta R.T.: 0.000 min
Response: 681183190
Conc: 189.02 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

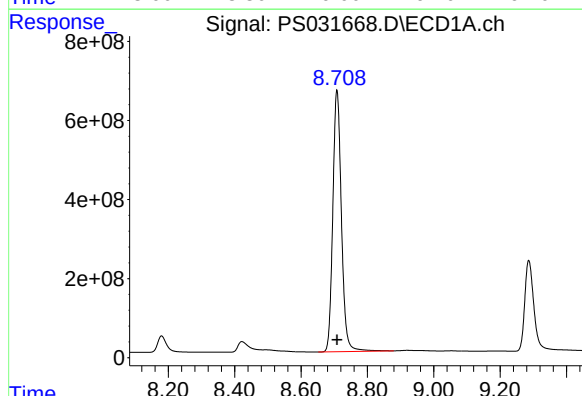
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025



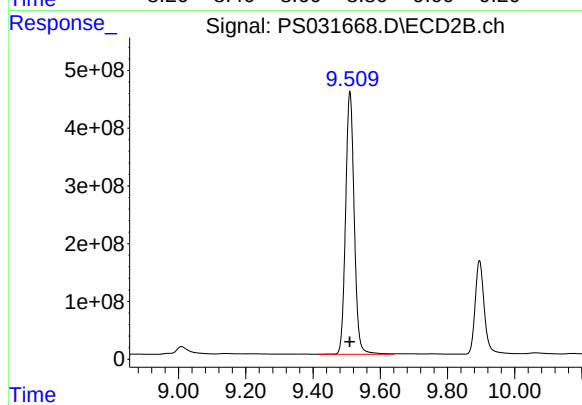
#9 2,4-D

R.T.: 9.009 min
Delta R.T.: 0.000 min
Response: 338039624
Conc: 199.59 ng/ml



#10 Pentachlorophenol

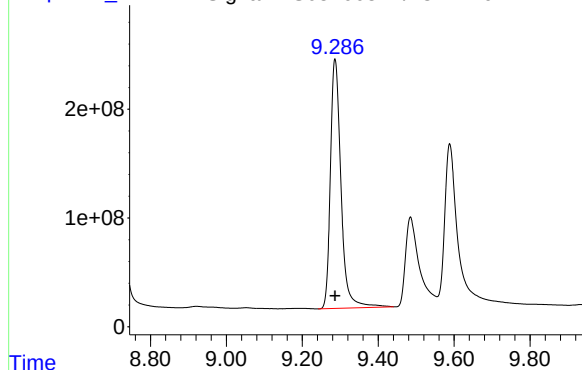
R.T.: 8.708 min
Delta R.T.: 0.000 min
Response: 11923137878
Conc: 201.31 ng/ml



#10 Pentachlorophenol

R.T.: 9.510 min
Delta R.T.: 0.000 min
Response: 8116615981
Conc: 194.37 ng/ml

Response_ Signal: PS031668.D\ECD1A.ch



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

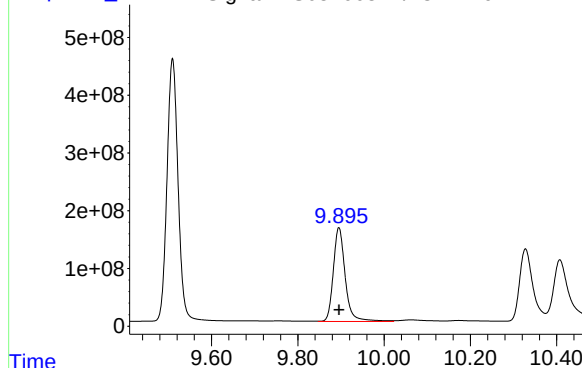
R.T.: 9.286 min
Delta R.T.: 0.000 min
Response: 4429736741
Conc: 202.41 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025

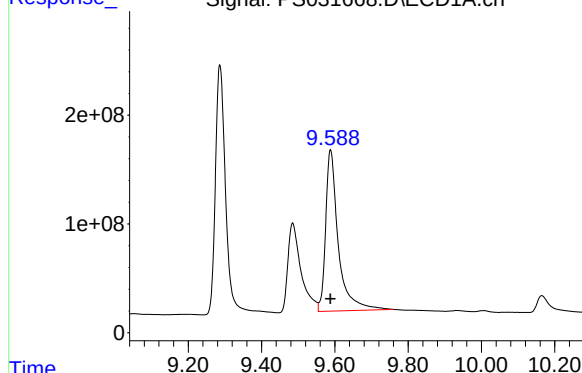
Response_ Signal: PS031668.D\ECD2B.ch



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

R.T.: 9.895 min
Delta R.T.: 0.000 min
Response: 3111862176
Conc: 199.83 ng/ml

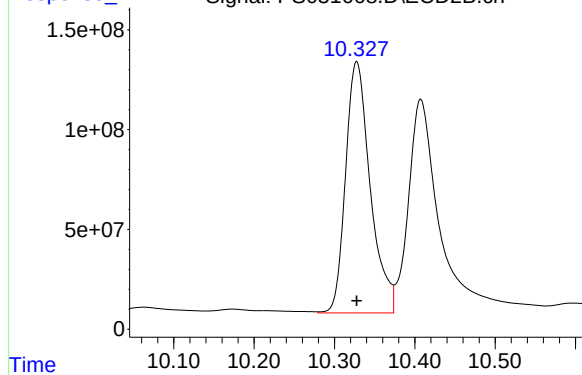
Response_ Signal: PS031668.D\ECD1A.ch



#12 2,4,5-T

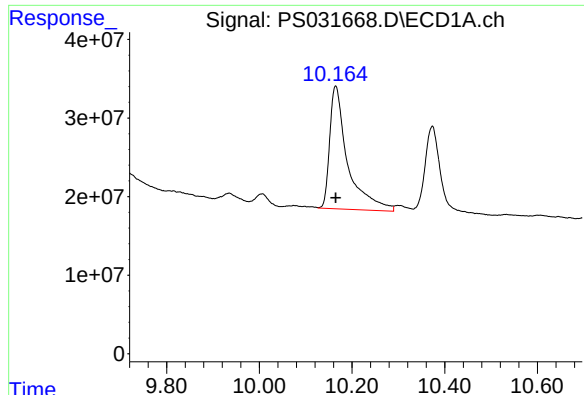
R.T.: 9.588 min
Delta R.T.: 0.000 min
Response: 3559458989
Conc: 191.92 ng/ml

Response_ Signal: PS031668.D\ECD2B.ch



#12 2,4,5-T

R.T.: 10.328 min
Delta R.T.: 0.000 min
Response: 2689277408
Conc: 196.54 ng/ml



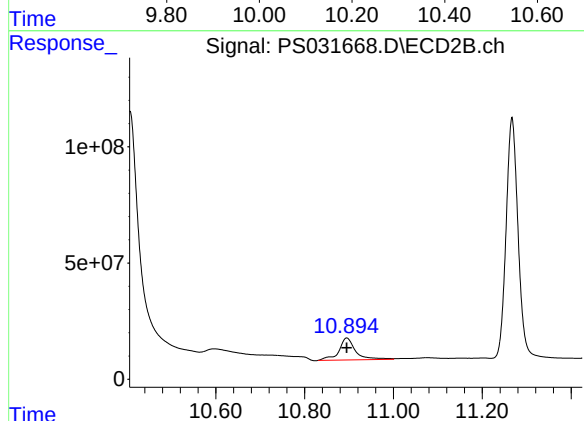
#13 2,4-DB

R.T.: 10.165 min
Delta R.T.: 0.000 min
Response: 421013315
Conc: 184.68 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

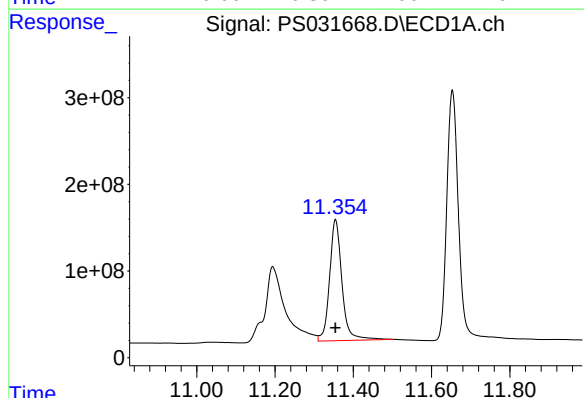
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025



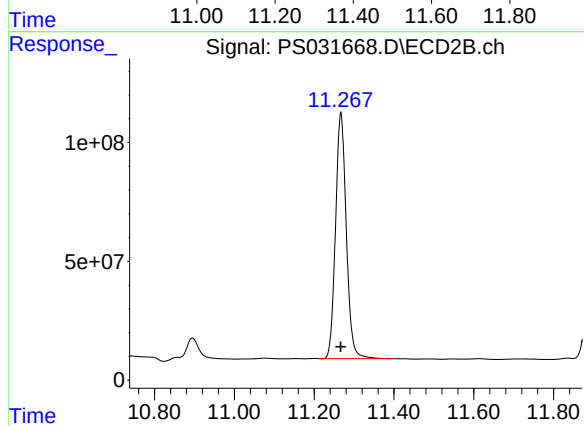
#13 2,4-DB

R.T.: 10.895 min
Delta R.T.: 0.000 min
Response: 244955667
Conc: 220.26 ng/ml



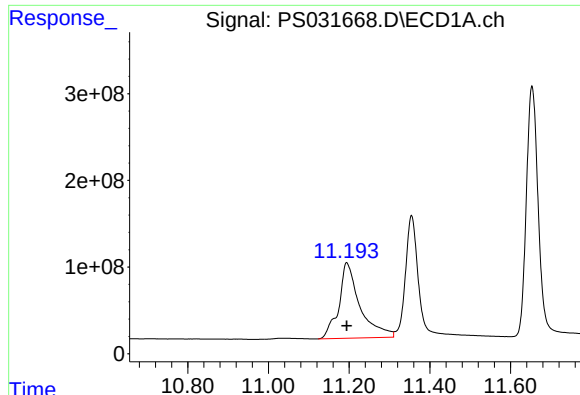
#14 DINOSEB

R.T.: 11.355 min
Delta R.T.: 0.000 min
Response: 3077912998
Conc: 205.45 ng/ml



#14 DINOSEB

R.T.: 11.267 min
Delta R.T.: 0.000 min
Response: 1933815828
Conc: 197.52 ng/ml



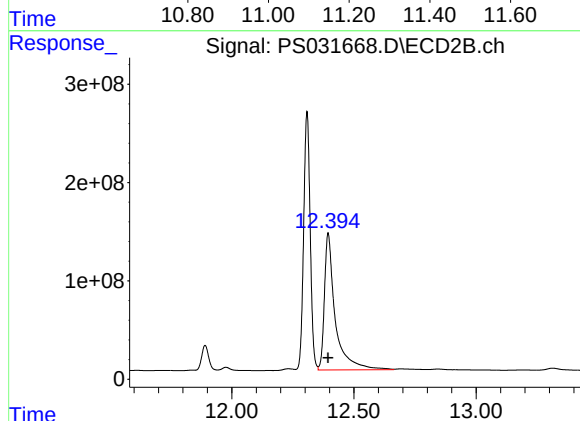
#15 Picloram

R.T.: 11.194 min
Delta R.T.: 0.000 min
Response: 3167587768
Conc: 181.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

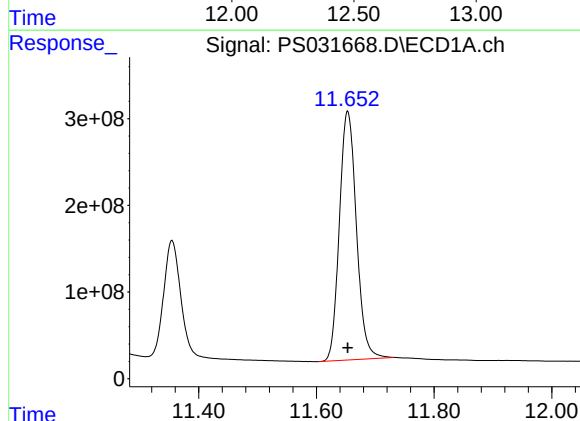
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025



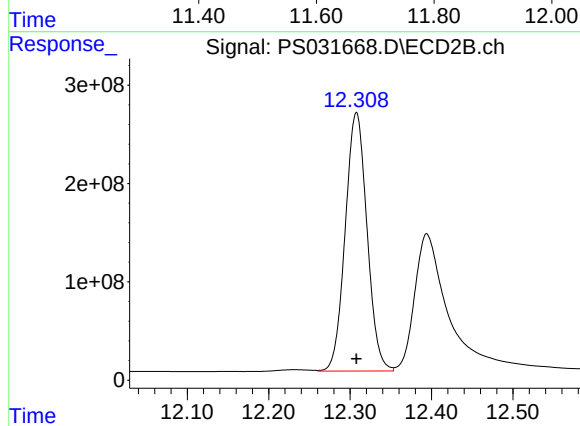
#15 Picloram

R.T.: 12.394 min
Delta R.T.: 0.000 min
Response: 4294390965
Conc: 182.59 ng/ml



#16 DCPA

R.T.: 11.653 min
Delta R.T.: 0.000 min
Response: 5767501292
Conc: 203.91 ng/ml



#16 DCPA

R.T.: 12.308 min
Delta R.T.: 0.000 min
Response: 4882087168
Conc: 196.92 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090925\
 Data File : PS031669.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09 Sep 2025 11:56
 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: Sep 09 12:42:11 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090925.M
 Quant Title : 8080.M
 QLast Update : Tue Sep 09 12:39:40 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	7.286	7.744	1887.3E6	456.4E6	516.660	505.487
Target Compounds							
1) T	Dalapon	2.672	2.691	2683.4E6	1340.9E6	465.979	468.823
2) T	3,5-DICHL...	6.454	6.697	2557.6E6	740.4E6	477.479	475.371
3) T	4-Nitroph...	7.100	7.301	494.3E6	505.9E6	450.108	425.959
5) T	DICAMBA	7.470	7.939	7582.5E6	3083.9E6	479.610	474.705
6) T	MCPD	7.647	8.035	401.6E6	92181039	45.249	46.276
7) T	MCPA	7.794	8.282	499.0E6	131.3E6	45.559	45.976
8) T	DICHLORPROP	8.178	8.659	1717.9E6	719.6E6	483.177	479.201
9) T	2,4-D	8.417	9.003	1826.6E6	782.0E6	508.249	476.411
10) T	Pentachlo...	8.708	9.508	27950.2E6	19902.1E6	486.398	482.154
11) T	2,4,5-TP ...	9.287	9.893	10292.4E6	7327.0E6	486.166	483.013
12) T	2,4,5-T	9.585	10.324	8860.3E6	6416.9E6	480.173	477.172
13) T	2,4-DB	10.160	10.892	1081.8E6	488.8E6	467.981	477.579
14) T	DINOSEB	11.355	11.266	6757.9E6	4415.2E6	473.049	462.691
15) T	Picloram	11.188	12.389	8470.1E6	11263.9E6	472.807	469.769
16) T	DCPA	11.653	12.307	13556.5E6	11946.3E6	494.616	488.114

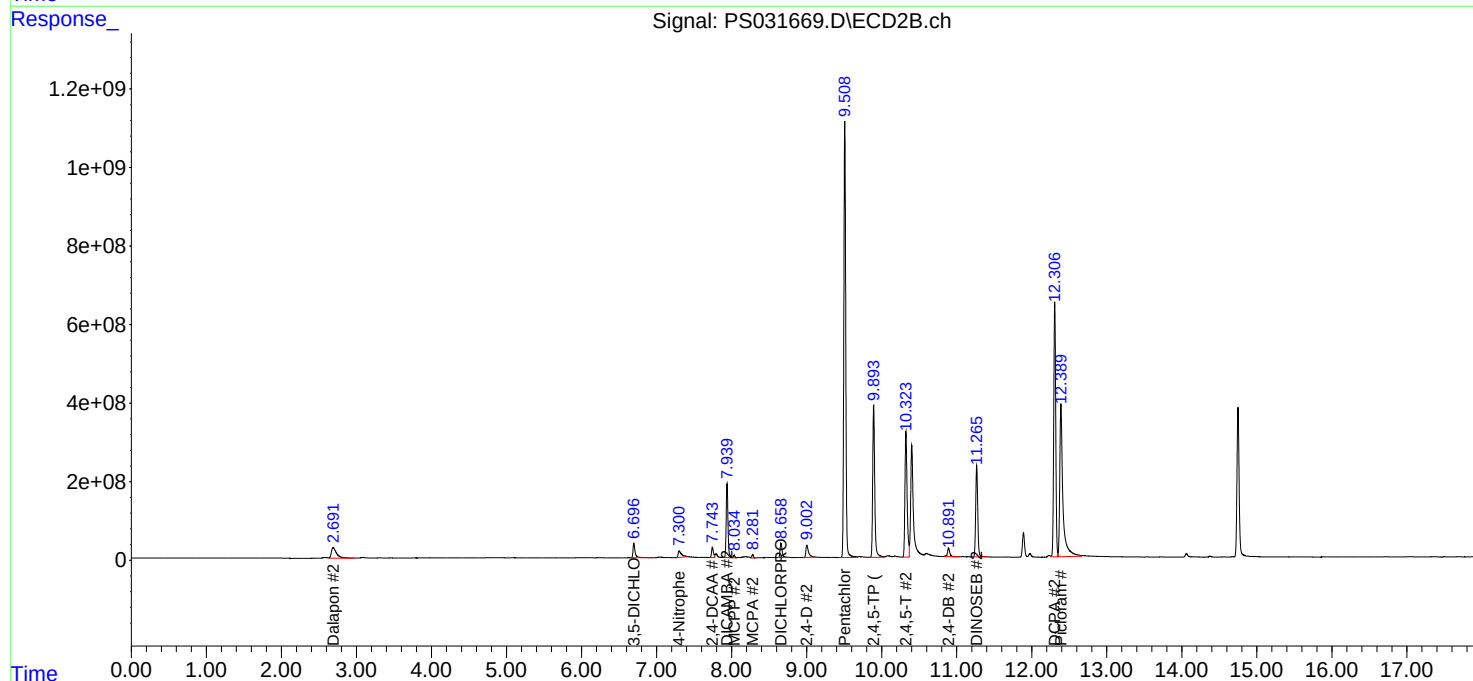
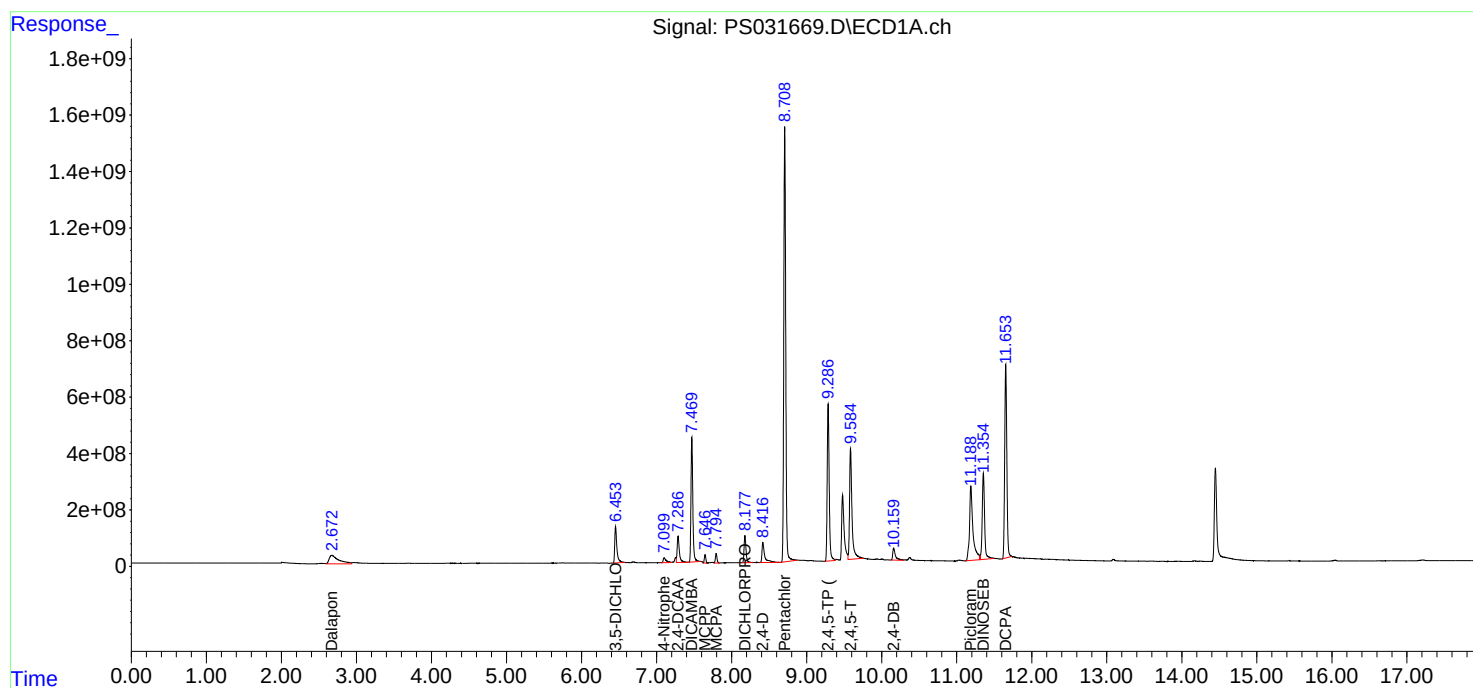
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090925\
Data File : PS031669.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2025 11:56
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 4 Sample Multiplier: 1

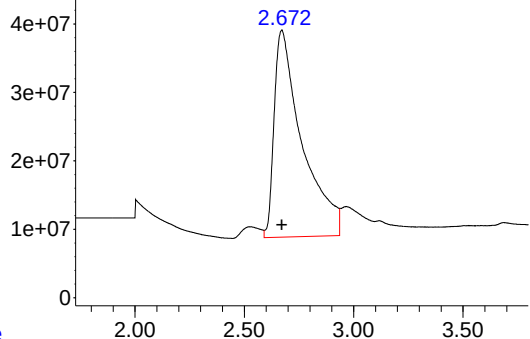
Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 12:42:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090925.M
Quant Title : 8080.M
QLast Update : Tue Sep 09 12:39:40 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



Response_ Signal: PS031669.D\ECD1A.ch

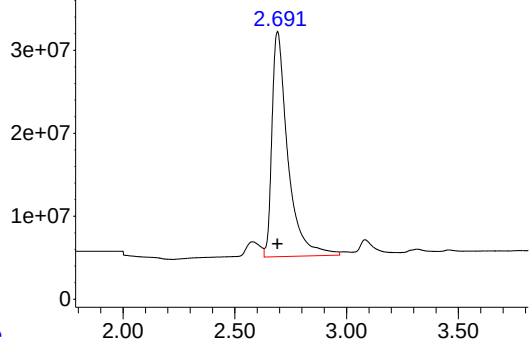


#1 Dalapon

R.T.: 2.672 min
Delta R.T.: 0.000 min
Response: 2683398428
Conc: 465.98 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

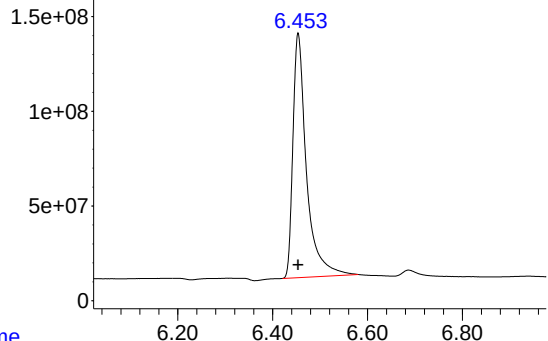
Time Response_ Signal: PS031669.D\ECD2B.ch



#1 Dalapon

R.T.: 2.691 min
Delta R.T.: 0.000 min
Response: 1340854462
Conc: 468.82 ng/ml

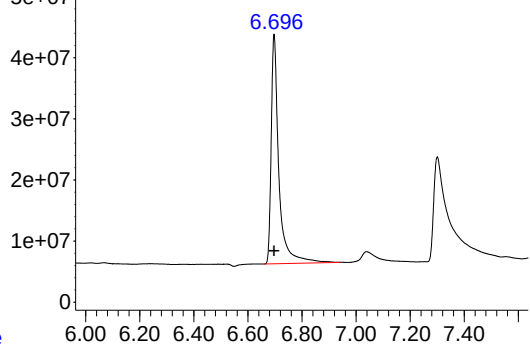
Time Response_ Signal: PS031669.D\ECD1A.ch



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.454 min
Delta R.T.: 0.000 min
Response: 2557607874
Conc: 477.48 ng/ml

Time Response_ Signal: PS031669.D\ECD2B.ch



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.697 min
Delta R.T.: 0.000 min
Response: 740424731
Conc: 475.37 ng/ml

Response_ Signal: PS031669.D\ECD1A.ch

#3 4-Nitrophenol

R.T.: 7.100 min
Delta R.T.: 0.000 min
Response: 494343059
Conc: 450.11 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Time

Response_ Signal: PS031669.D\ECD2B.ch

#3 4-Nitrophenol

R.T.: 7.301 min
Delta R.T.: 0.000 min
Response: 505899123
Conc: 425.96 ng/ml

Time

Response_ Signal: PS031669.D\ECD1A.ch

#4 2,4-DCAA

R.T.: 7.286 min
Delta R.T.: 0.000 min
Response: 1887279176
Conc: 516.66 ng/ml

Time

Response_ Signal: PS031669.D\ECD2B.ch

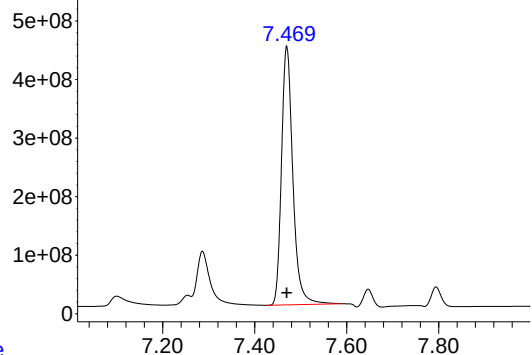
#4 2,4-DCAA

R.T.: 7.744 min
Delta R.T.: 0.000 min
Response: 456399302
Conc: 505.49 ng/ml

Time

Response_ Signal: PS031669.D\ECD1A.ch

#5 DICAMBA

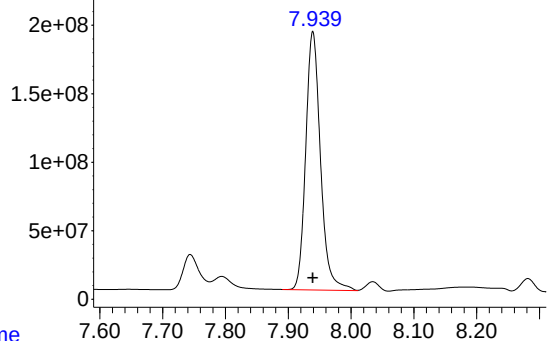


R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 7582521543
Conc: 479.61 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Time Response_ Signal: PS031669.D\ECD2B.ch

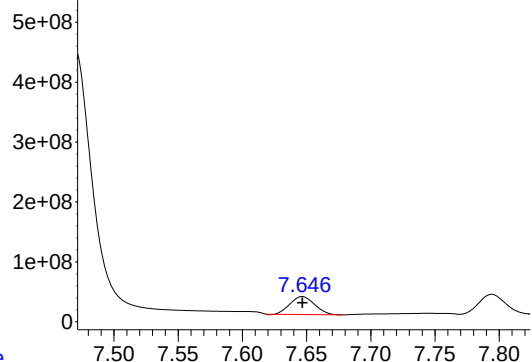
#5 DICAMBA



R.T.: 7.939 min
Delta R.T.: 0.000 min
Response: 3083929309
Conc: 474.70 ng/ml

Time Response_ Signal: PS031669.D\ECD1A.ch

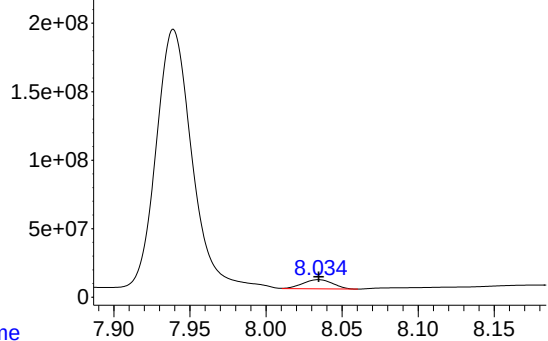
#6 MCP



R.T.: 7.647 min
Delta R.T.: 0.000 min
Response: 401645568
Conc: 45.25 ug/ml

Time Response_ Signal: PS031669.D\ECD2B.ch

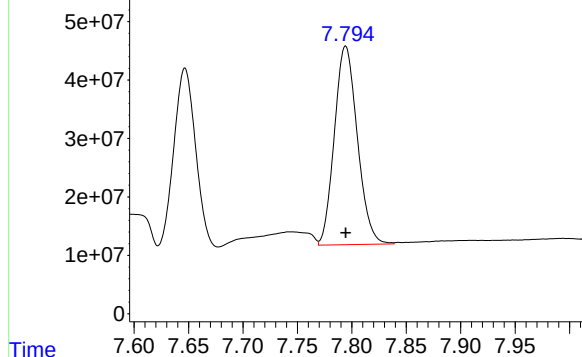
#6 MCP



R.T.: 8.035 min
Delta R.T.: 0.000 min
Response: 92181039
Conc: 46.28 ug/ml

Response_ Signal: PS031669.D\ECD1A.ch

#7 MCPA

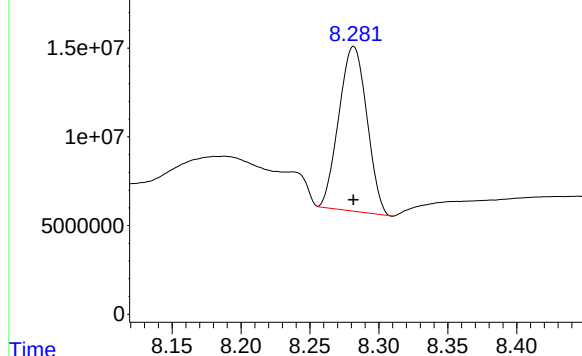


R.T.: 7.794 min
Delta R.T.: 0.000 min
Response: 499021663
Conc: 45.56 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Response_ Signal: PS031669.D\ECD2B.ch

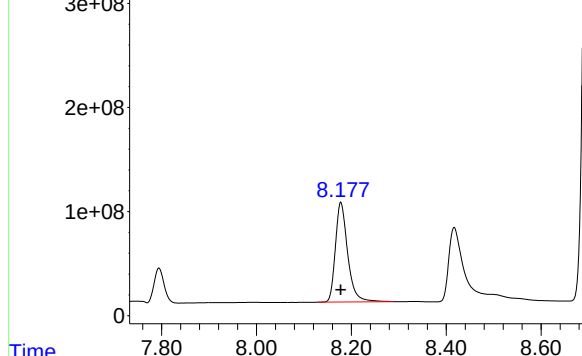
#7 MCPA



R.T.: 8.282 min
Delta R.T.: 0.000 min
Response: 131311683
Conc: 45.98 ug/ml

Response_ Signal: PS031669.D\ECD1A.ch

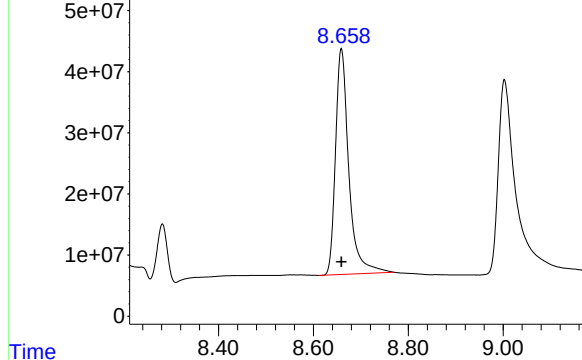
#8 DICHLORPROP



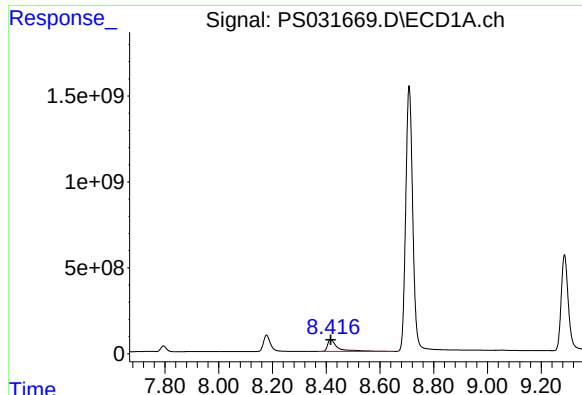
R.T.: 8.178 min
Delta R.T.: 0.000 min
Response: 1717942437
Conc: 483.18 ng/ml

Response_ Signal: PS031669.D\ECD2B.ch

#8 DICHLORPROP



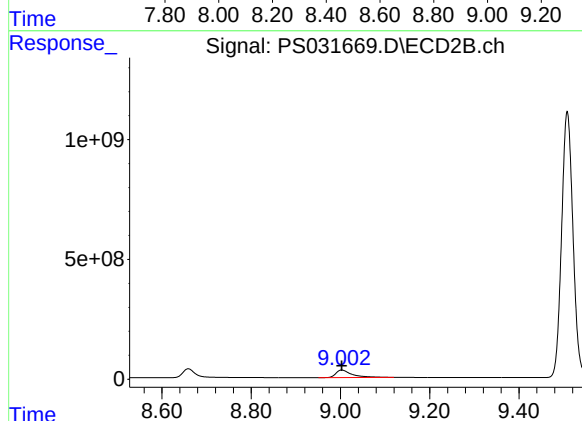
R.T.: 8.659 min
Delta R.T.: 0.000 min
Response: 719559492
Conc: 479.20 ng/ml



#9 2,4-D

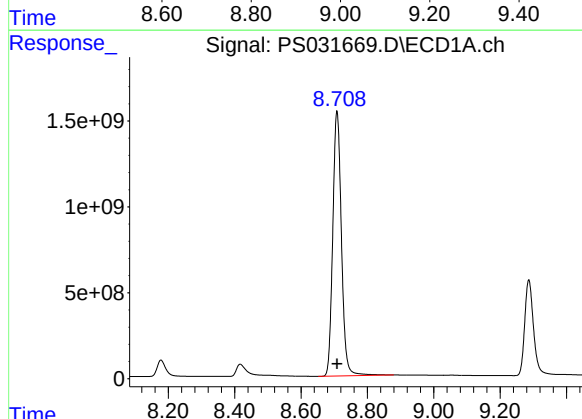
R.T.: 8.417 min
Delta R.T.: 0.000 min
Response: 1826639518
Conc: 508.25 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



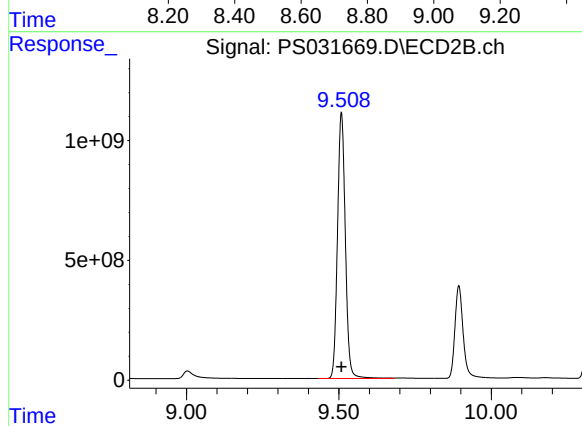
#9 2,4-D

R.T.: 9.003 min
Delta R.T.: 0.000 min
Response: 782019010
Conc: 476.41 ng/ml



#10 Pentachlorophenol

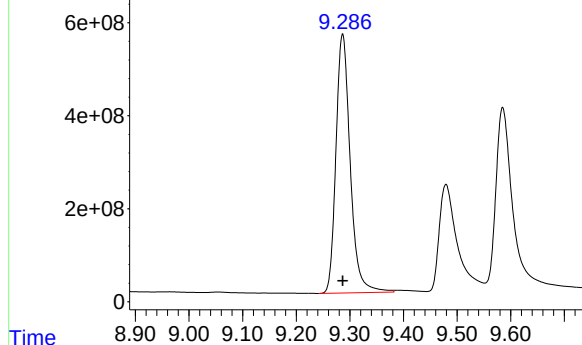
R.T.: 8.708 min
Delta R.T.: 0.000 min
Response: 27950210376
Conc: 486.40 ng/ml



#10 Pentachlorophenol

R.T.: 9.508 min
Delta R.T.: 0.000 min
Response: 19902100392
Conc: 482.15 ng/ml

Response_ Signal: PS031669.D\ECD1A.ch

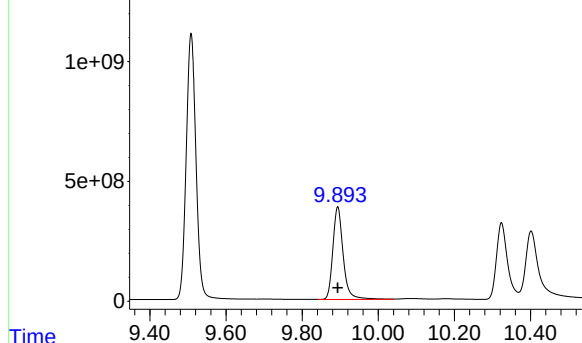


#11 2,4,5-TP (SILVEX)

R.T.: 9.287 min
Delta R.T.: 0.000 min
Response: 10292424950
Conc: 486.17 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

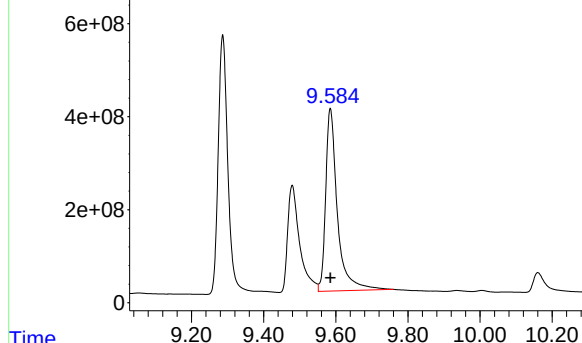
Response_ Signal: PS031669.D\ECD2B.ch



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

R.T.: 9.893 min
Delta R.T.: 0.000 min
Response: 7326966063
Conc: 483.01 ng/ml

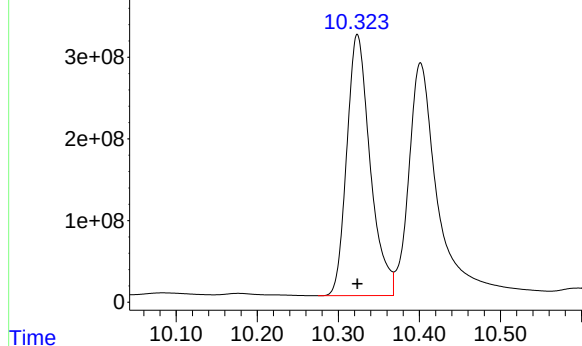
Response_ Signal: PS031669.D\ECD1A.ch



#12 2,4,5-T

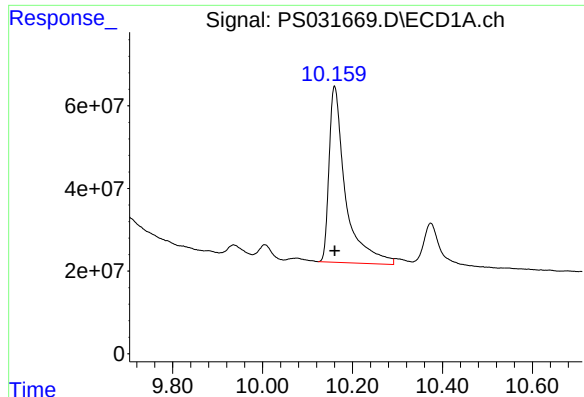
R.T.: 9.585 min
Delta R.T.: 0.000 min
Response: 8860315412
Conc: 480.17 ng/ml

Response_ Signal: PS031669.D\ECD2B.ch



#12 2,4,5-T

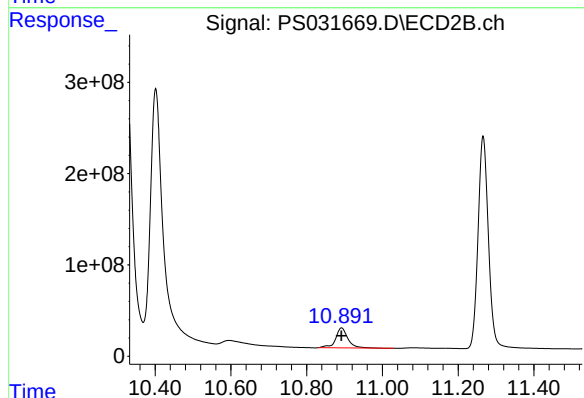
R.T.: 10.324 min
Delta R.T.: 0.000 min
Response: 6416885555
Conc: 477.17 ng/ml



#13 2,4-DB

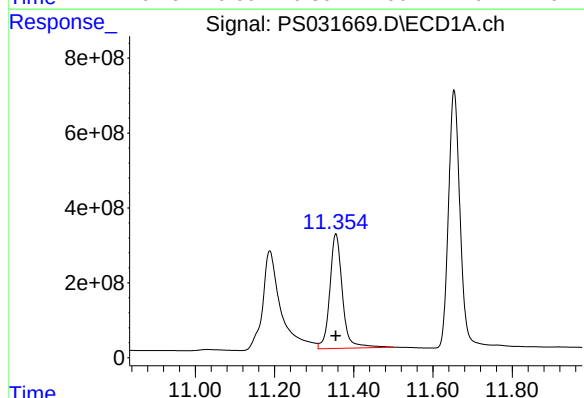
R.T.: 10.160 min
Delta R.T.: 0.000 min
Response: 1081831210
Conc: 467.98 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC500



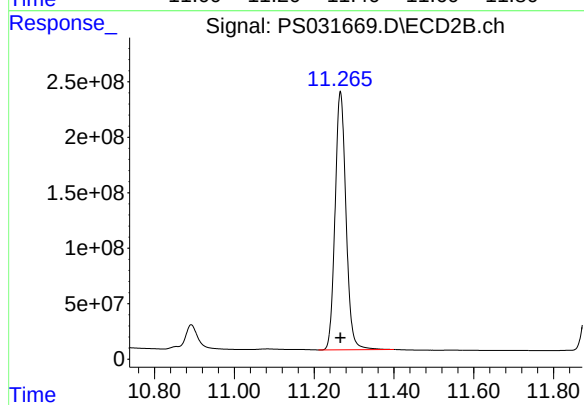
#13 2,4-DB

R.T.: 10.892 min
Delta R.T.: 0.000 min
Response: 488821026
Conc: 477.58 ng/ml



#14 DINOSEB

R.T.: 11.355 min
Delta R.T.: 0.000 min
Response: 6757889283
Conc: 473.05 ng/ml



#14 DINOSEB

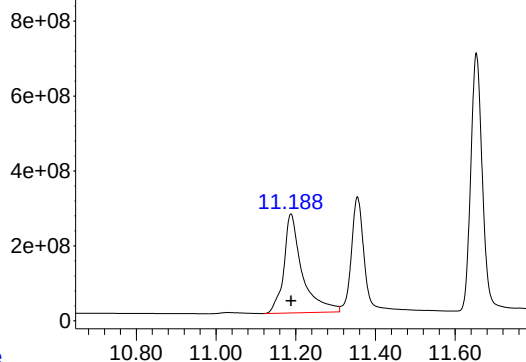
R.T.: 11.266 min
Delta R.T.: 0.000 min
Response: 4415163180
Conc: 462.69 ng/ml

Response_

Signal: PS031669.D\ECD1A.ch

#15 Picloram

ICAL Form



R.T.: 11.188 min
Delta R.T.: 0.000 min
Response: 8470132048
Conc: 472.81 ng/ml

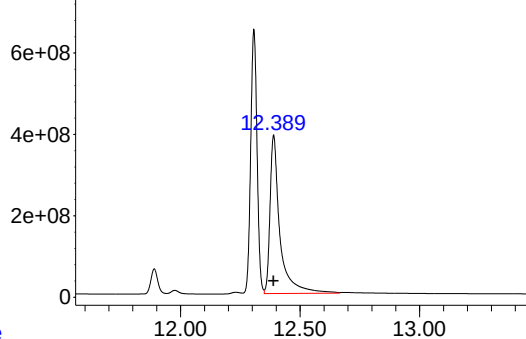
Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Time

Response_

Signal: PS031669.D\ECD2B.ch

#15 Picloram



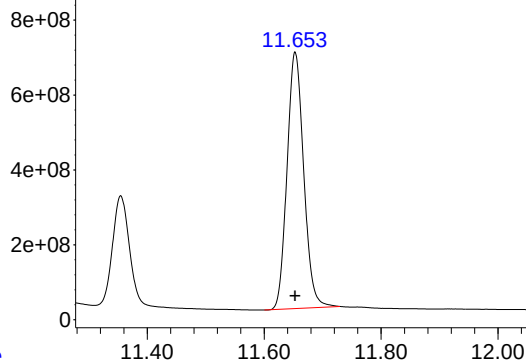
R.T.: 12.389 min
Delta R.T.: 0.000 min
Response: 11263891600
Conc: 469.77 ng/ml

Time

Response_

Signal: PS031669.D\ECD1A.ch

#16 DCPA



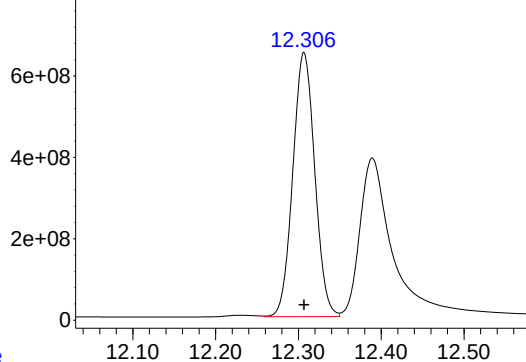
R.T.: 11.653 min
Delta R.T.: 0.000 min
Response: 13556472153
Conc: 494.62 ng/ml

Time

Response_

Signal: PS031669.D\ECD2B.ch

#16 DCPA



R.T.: 12.307 min
Delta R.T.: 0.000 min
Response: 11946301026
Conc: 488.11 ng/ml

Time

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090925\
 Data File : PS031670.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09 Sep 2025 12:20
 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: Sep 09 12:39:57 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090925.M
 Quant Title : 8080.M
 QLast Update : Tue Sep 09 12:39:40 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	7.285	7.743	2648.3E6	669.7E6	750.000	750.000
Target Compounds							
1) T	Dalapon	2.669	2.691	3835.4E6	1892.7E6	682.500	682.500
2) T	3,5-DICHL...	6.453	6.695	3635.9E6	1062.2E6	697.500	697.500
3) T	4-Nitroph...	7.095	7.291	757.6E6	862.3E6	682.500	682.500
5) T	DICAMBA	7.469	7.939	10918.0E6	4534.2E6	705.000	705.000
6) T	MCPD	7.647	8.036	649.1E6	142.6E6	70.500	70.500
7) T	MCPA	7.796	8.284	779.5E6	201.5E6	69.750	69.750
8) T	DICHLORPROP	8.177	8.659	2436.4E6	1037.9E6	705.000	705.000
9) T	2,4-D	8.414	9.000	2327.6E6	1141.5E6	705.000	705.000
10) T	Pentachlo...	8.708	9.509	39960.3E6	28967.2E6	712.500	712.500
11) T	2,4,5-TP ...	9.285	9.893	14729.5E6	10625.8E6	712.500	712.500
12) T	2,4,5-T	9.583	10.321	13004.1E6	9537.7E6	712.500	712.500
13) T	2,4-DB	10.158	10.890	1671.4E6	725.3E6	712.500	712.500
14) T	DINOSEB	11.354	11.266	10006.2E6	6832.0E6	705.000	705.000
15) T	Picloram	11.184	12.385	12823.0E6	17272.1E6	712.500	712.500
16) T	DCPA	11.654	12.307	19132.9E6	17323.7E6	720.000	720.000

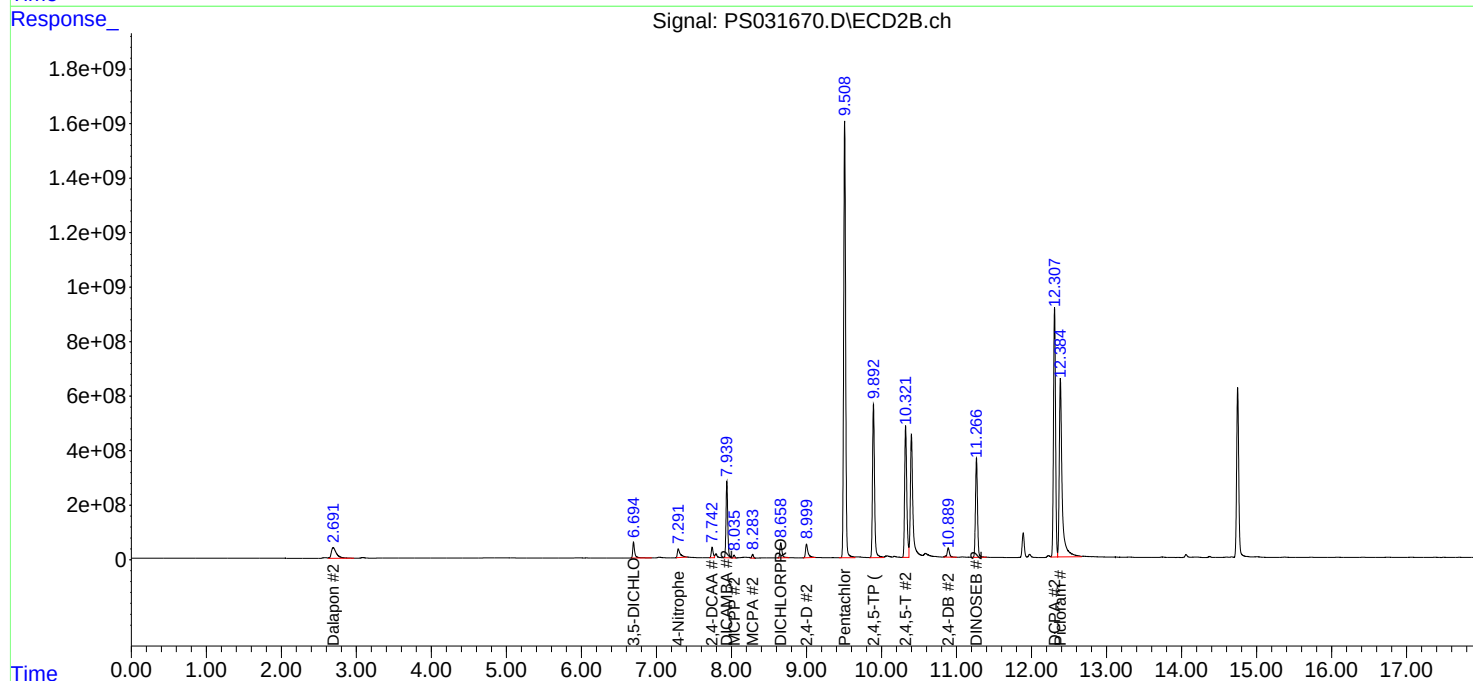
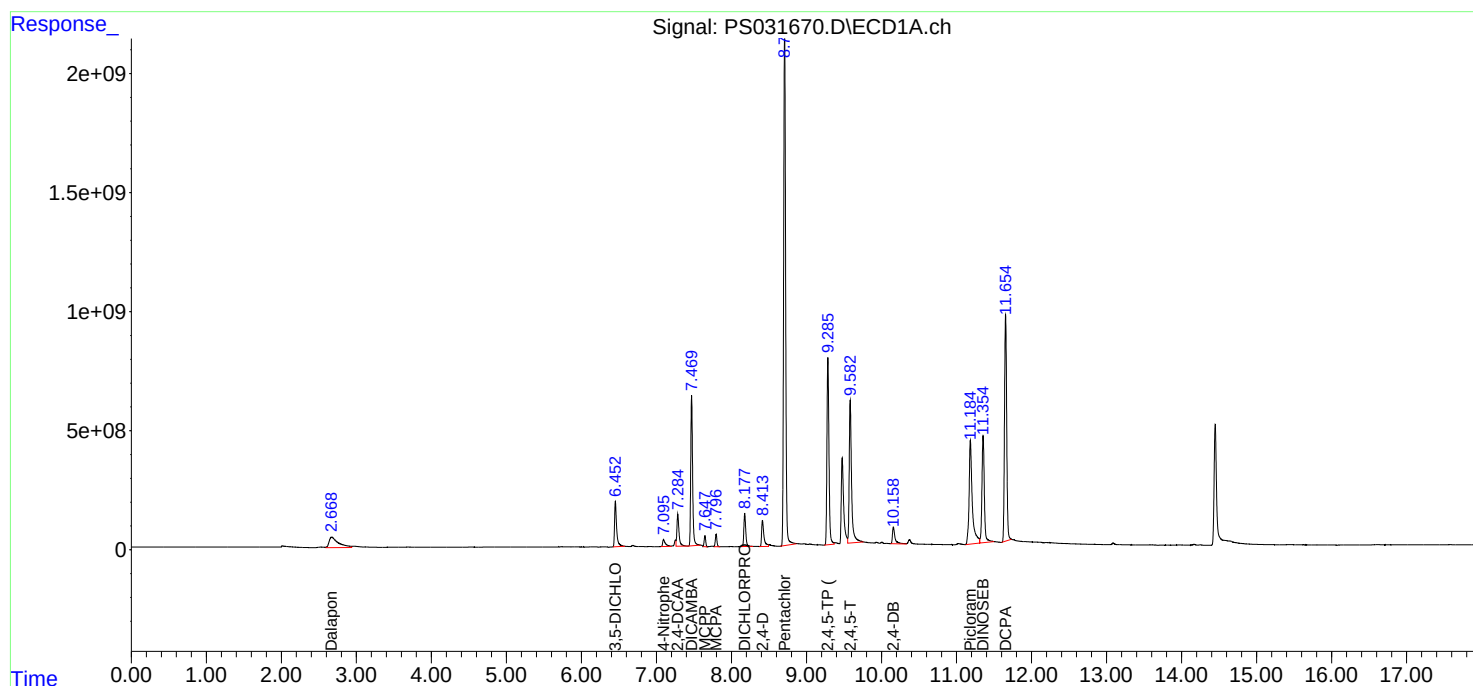
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

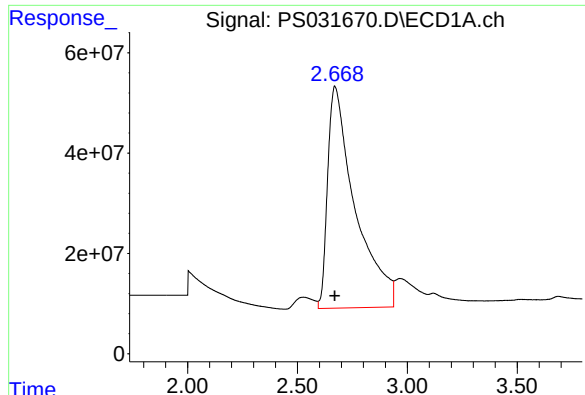
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090925\
Data File : PS031670.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2025 12:20
Operator : AR\AJ
Sample : HSTDICC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 12:39:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090925.M
Quant Title : 8080.M
QLast Update : Tue Sep 09 12:39:40 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

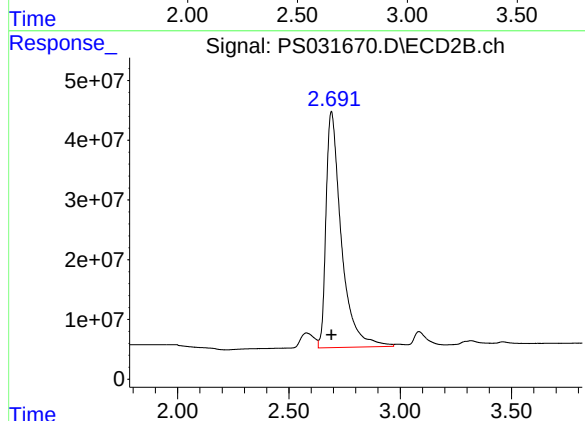




#1 Dalapon

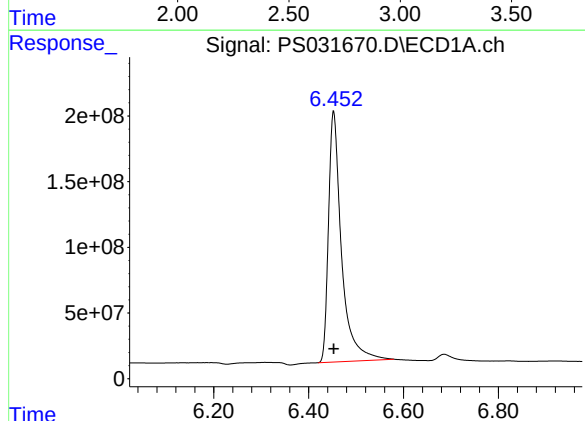
R.T.: 2.669 min
Delta R.T.: 0.000 min
Response: 3835417661
Conc: 682.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



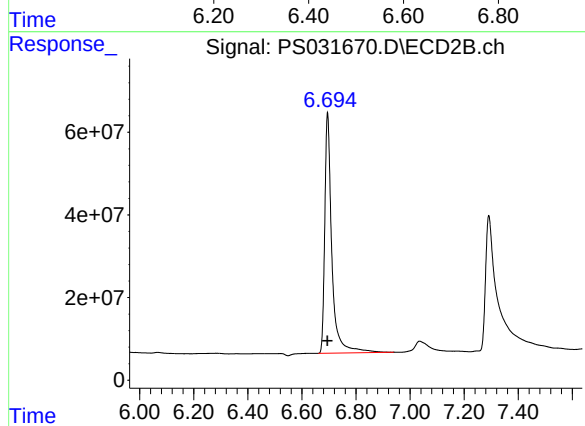
#1 Dalapon

R.T.: 2.691 min
Delta R.T.: 0.000 min
Response: 1892680745
Conc: 682.50 ng/ml



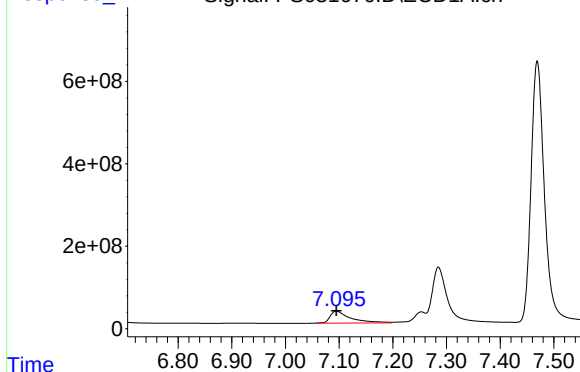
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.453 min
Delta R.T.: 0.000 min
Response: 3635882874
Conc: 697.50 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.695 min
Delta R.T.: 0.000 min
Response: 1062176401
Conc: 697.50 ng/ml



R.T.: 7.095 min
Delta R.T.: 0.000 min
Response: 757633261
Conc: 682.50 ng/ml

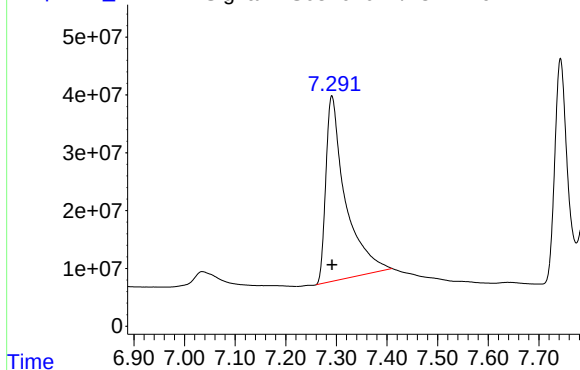
Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Time

Response_

Signal: PS031670.D\ECD2B.ch

#3 4-Nitrophenol



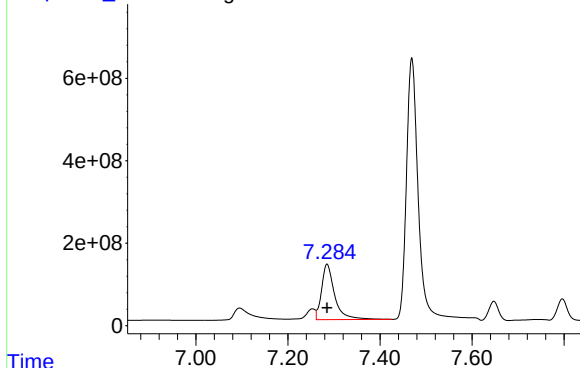
R.T.: 7.291 min
Delta R.T.: 0.000 min
Response: 862322456
Conc: 682.50 ng/ml

Time

Response_

Signal: PS031670.D\ECD1A.ch

#4 2,4-DCAA



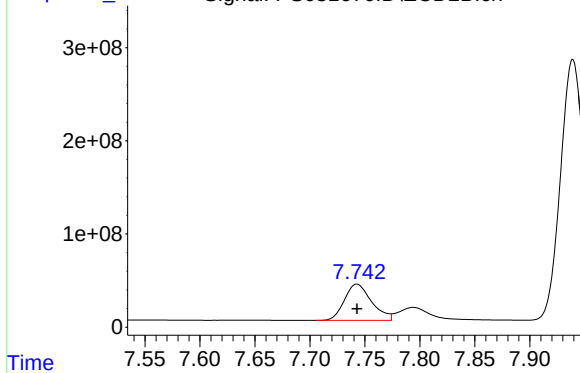
R.T.: 7.285 min
Delta R.T.: 0.000 min
Response: 2648346210
Conc: 750.00 ng/ml

Time

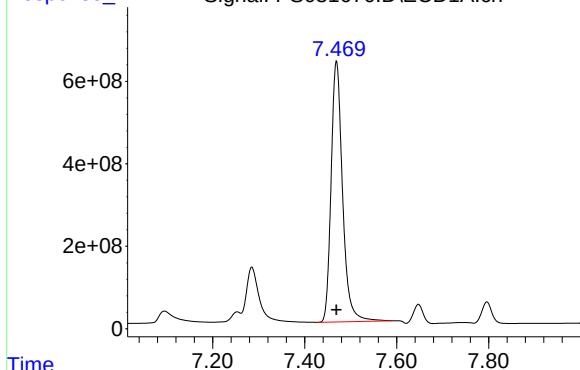
Response_

Signal: PS031670.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.743 min
Delta R.T.: 0.000 min
Response: 669737304
Conc: 750.00 ng/ml



R.T.: 7.469 min
Delta R.T.: 0.000 min
Response: 10917989981
Conc: 705.00 ng/ml

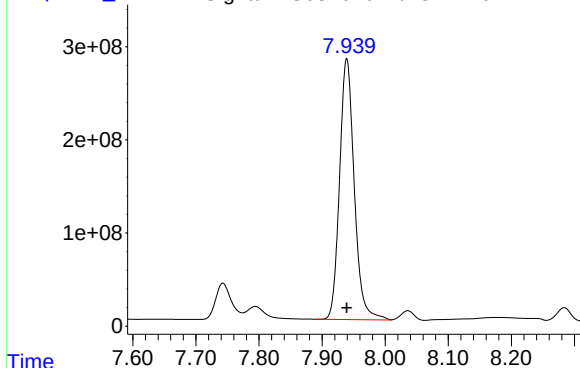
Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Time

Response_

Signal: PS031670.D\ECD2B.ch

#5 DICAMBA



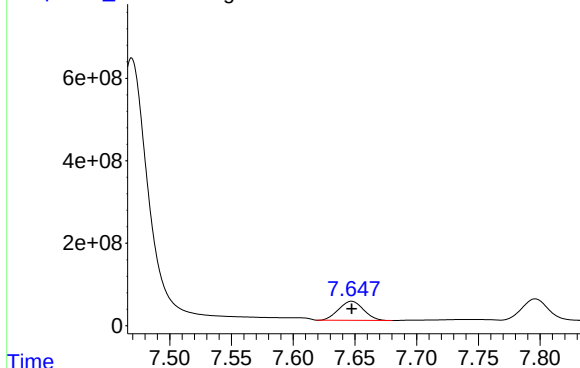
R.T.: 7.939 min
Delta R.T.: 0.000 min
Response: 4534200482
Conc: 705.00 ng/ml

Time

Response_

Signal: PS031670.D\ECD1A.ch

#6 MCP



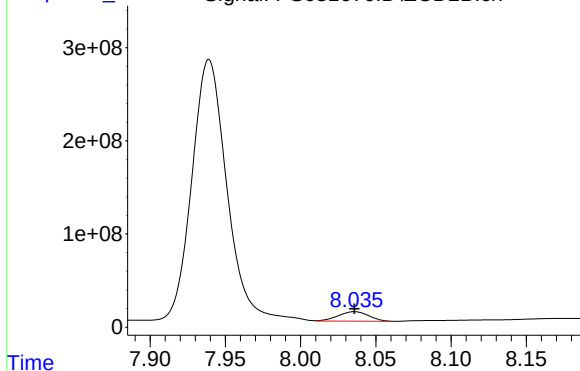
R.T.: 7.647 min
Delta R.T.: 0.000 min
Response: 649105421
Conc: 70.50 ug/ml

Time

Response_

Signal: PS031670.D\ECD2B.ch

#6 MCP



R.T.: 8.035 min
Delta R.T.: 0.000 min
Response: 142596566
Conc: 70.50 ug/ml

Time

Response_ Signal: PS031670.D\ECD1A.ch

#7 MCPA

R.T.: 7.796 min
Delta R.T.: 0.000 min
Response: 779465841
Conc: 69.75 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Time

Response_ Signal: PS031670.D\ECD2B.ch

#7 MCPA

R.T.: 8.284 min
Delta R.T.: 0.000 min
Response: 201460764
Conc: 69.75 ug/ml

Time

Response_ Signal: PS031670.D\ECD1A.ch

#8 DICHLORPROP

R.T.: 8.177 min
Delta R.T.: 0.000 min
Response: 2436358057
Conc: 705.00 ng/ml

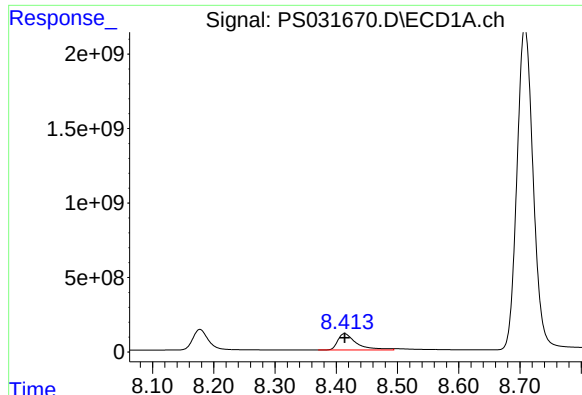
Time

Response_ Signal: PS031670.D\ECD2B.ch

#8 DICHLORPROP

R.T.: 8.659 min
Delta R.T.: 0.000 min
Response: 1037891301
Conc: 705.00 ng/ml

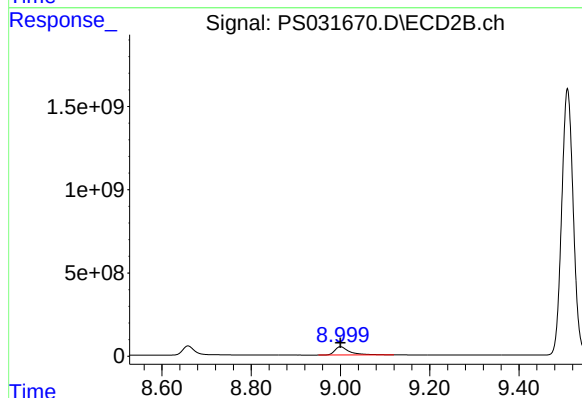
Time



#9 2,4-D

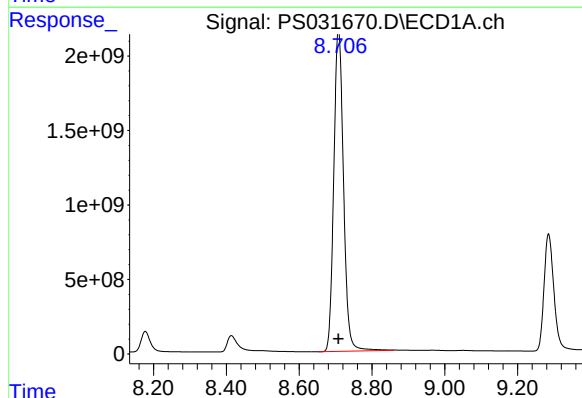
R.T.: 8.414 min
Delta R.T.: 0.000 min
Response: 2327563337
Conc: 705.00 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



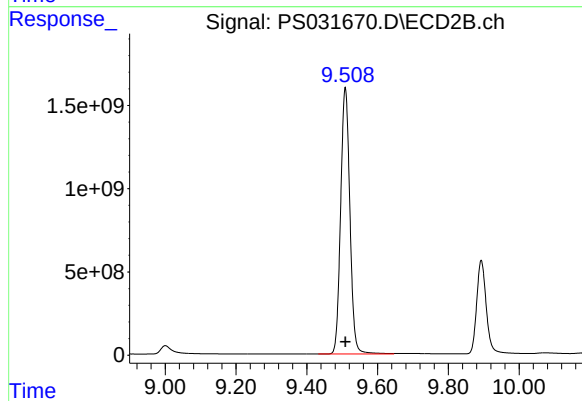
#9 2,4-D

R.T.: 9.000 min
Delta R.T.: 0.000 min
Response: 1141458596
Conc: 705.00 ng/ml



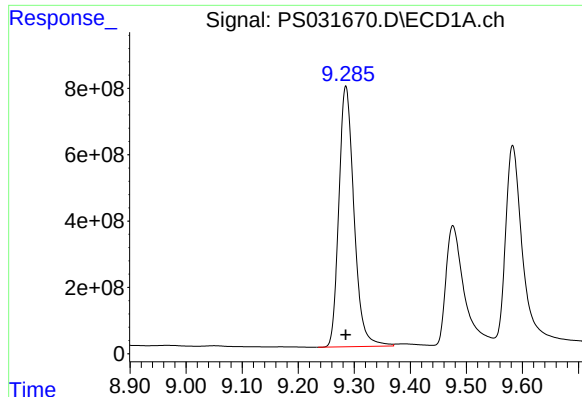
#10 Pentachlorophenol

R.T.: 8.708 min
Delta R.T.: 0.000 min
Response: 39960337613
Conc: 712.50 ng/ml



#10 Pentachlorophenol

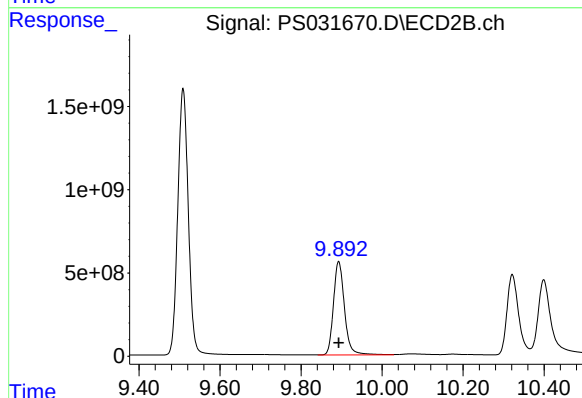
R.T.: 9.509 min
Delta R.T.: 0.000 min
Response: 28967233372
Conc: 712.50 ng/ml



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

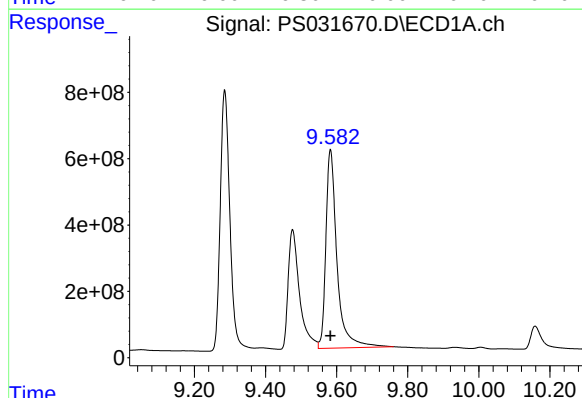
R.T.: 9.285 min
Delta R.T.: 0.000 min
Response: 14729452295
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750



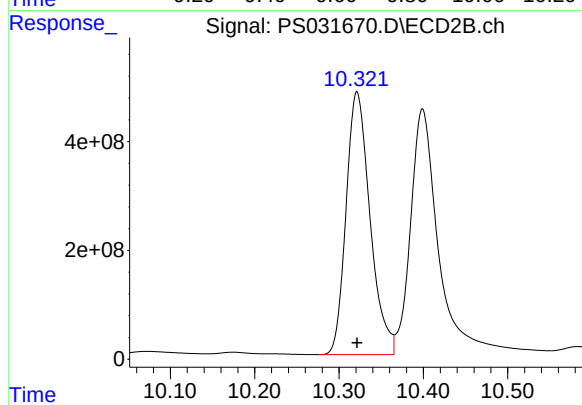
#11 2,4,5-TP (SILVEX)

R.T.: 9.893 min
Delta R.T.: 0.000 min
Response: 10625804096
Conc: 712.50 ng/ml



#12 2,4,5-T

R.T.: 9.583 min
Delta R.T.: 0.000 min
Response: 13004122908
Conc: 712.50 ng/ml



#12 2,4,5-T

R.T.: 10.321 min
Delta R.T.: 0.000 min
Response: 9537689876
Conc: 712.50 ng/ml

Response_ Signal: PS031670.D\ECD1A.ch

#13 2,4-DB

R.T.: 10.158 min
Delta R.T.: 0.000 min
Response: 1671423993
Conc: 712.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Time

Response_ Signal: PS031670.D\ECD2B.ch

#13 2,4-DB

R.T.: 10.890 min
Delta R.T.: 0.000 min
Response: 725312318
Conc: 712.50 ng/ml

Time

Response_ Signal: PS031670.D\ECD1A.ch

#14 DINOSEB

R.T.: 11.354 min
Delta R.T.: 0.000 min
Response: 10006178386
Conc: 705.00 ng/ml

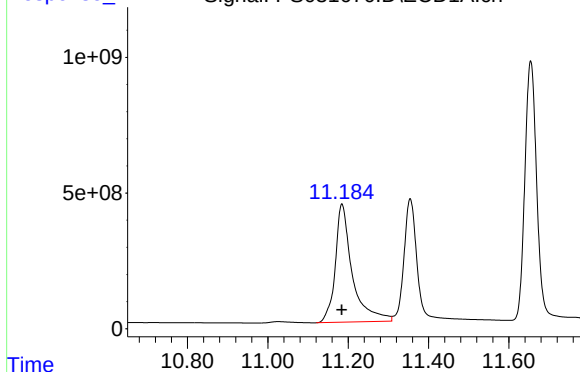
Time

Response_ Signal: PS031670.D\ECD2B.ch

#14 DINOSEB

R.T.: 11.266 min
Delta R.T.: 0.000 min
Response: 6831982461
Conc: 705.00 ng/ml

Time



R.T.: 11.184 min
Delta R.T.: 0.000 min
Response: 12823034684
Conc: 712.50 ng/ml

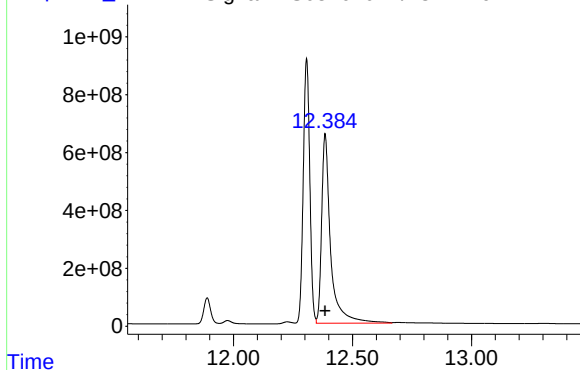
Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Time

Response_

Signal: PS031670.D\ECD2B.ch

#15 Picloram



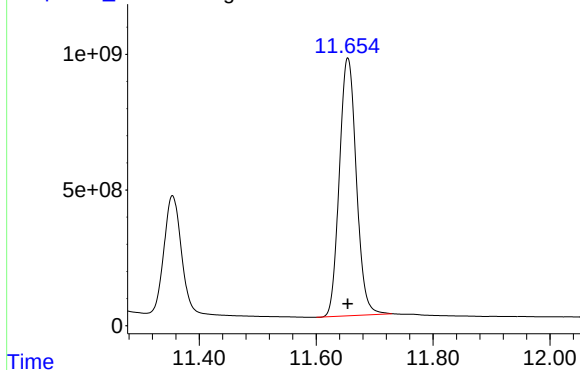
R.T.: 12.385 min
Delta R.T.: 0.000 min
Response: 17272108328
Conc: 712.50 ng/ml

Time

Response_

Signal: PS031670.D\ECD1A.ch

#16 DCPA



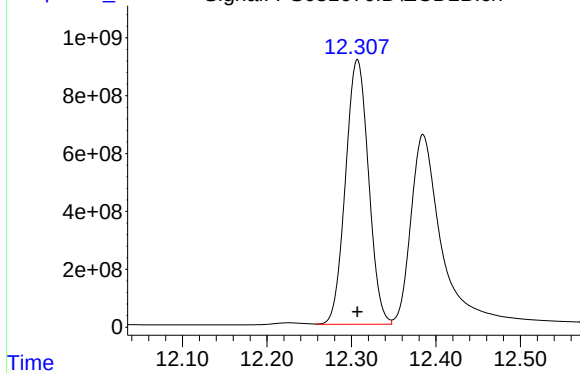
R.T.: 11.654 min
Delta R.T.: 0.000 min
Response: 19132916848
Conc: 720.00 ng/ml

Time

Response_

Signal: PS031670.D\ECD2B.ch

#16 DCPA



R.T.: 12.307 min
Delta R.T.: 0.000 min
Response: 17323698350
Conc: 720.00 ng/ml

Time

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090925\
 Data File : PS031671.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09 Sep 2025 12:44
 Operator : AR\AJ
 Sample : HSTDICC1000
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC1000

Manual Integrations
 APPROVED

Reviewed By :Abdul Mirza 09/10/2025
 Supervised By :mohammad ahmed 09/11/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Sep 09 13:49:31 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090925.M
 Quant Title : 8080.M
 QLast Update : Tue Sep 09 13:49:21 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	7.285	7.741	3388.8E6	889.9E6	923.388	969.760
Target Compounds							
1) T	Dalapon	2.670	2.691	4981.4E6	2459.5E6	847.045	863.301
2) T	3,5-DICHL...	6.452	6.694	4672.8E6	1345.5E6	856.951	871.415
3) T	4-Nitroph...	7.092	7.286	1005.4E6	1167.2E6	928.206	957.071
5) T	DICAMBA	7.469	7.939	14111.0E6	5976.5E6	892.186	910.452
6) T	MCPD	7.648	8.037	899.8E6	191.4E6	104.238	102.208
7) T	MCPA	7.797	8.285	1079.8E6	272.1E6	99.405	98.971
8) T	DICHLORPROP	8.176	8.657	3138.0E6	1302.3E6	862.275	884.504
9) T	2,4-D	8.412	8.997	2976.9E6	1494.3E6	851.867	896.037
10) T	Pentachlo...	8.713	9.508	46784.3E6	37530.6E6	824.658	911.049
11) T	2,4,5-TP ...	9.285	9.892	18997.9E6	13825.1E6	887.198	902.578
12) T	2,4,5-T	9.580	10.320	17196.6E6	12650.1E6	932.820	930.744
13) T	2,4-DB	10.156	10.888	2250.6E6	966.0E6	977.632	887.633
14) T	DINOSEB	11.354	11.265	12980.2E6	9032.5E6	883.723	926.885
15) T	Picloram	11.180	12.382	17642.8E6	22800.5E6	992.954	964.513
16) T	DCPA	11.653	12.306	24572.8E6	22658.6E6	889.901	926.368m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090925\
Data File : PS031671.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2025 12:44
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :

ECD_S

Client SampleId :

HSTDICC1000

Manual Integrations

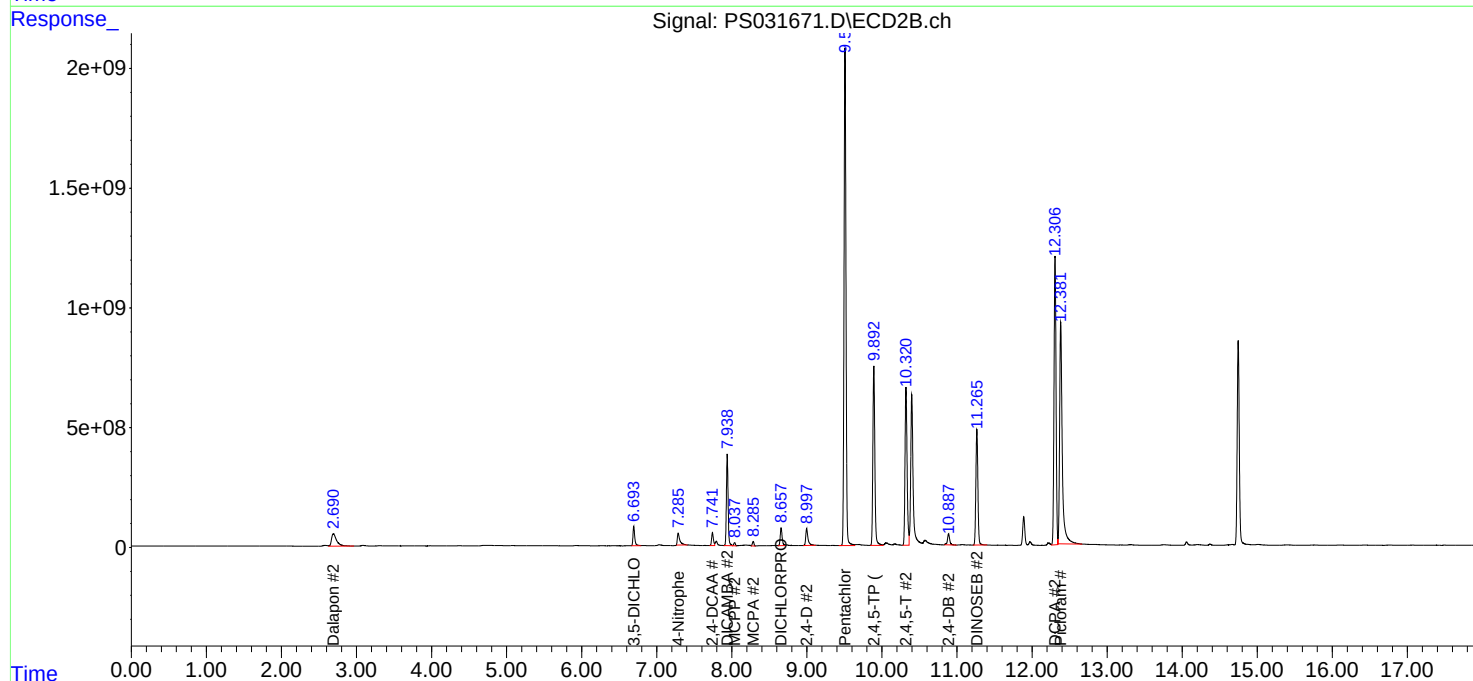
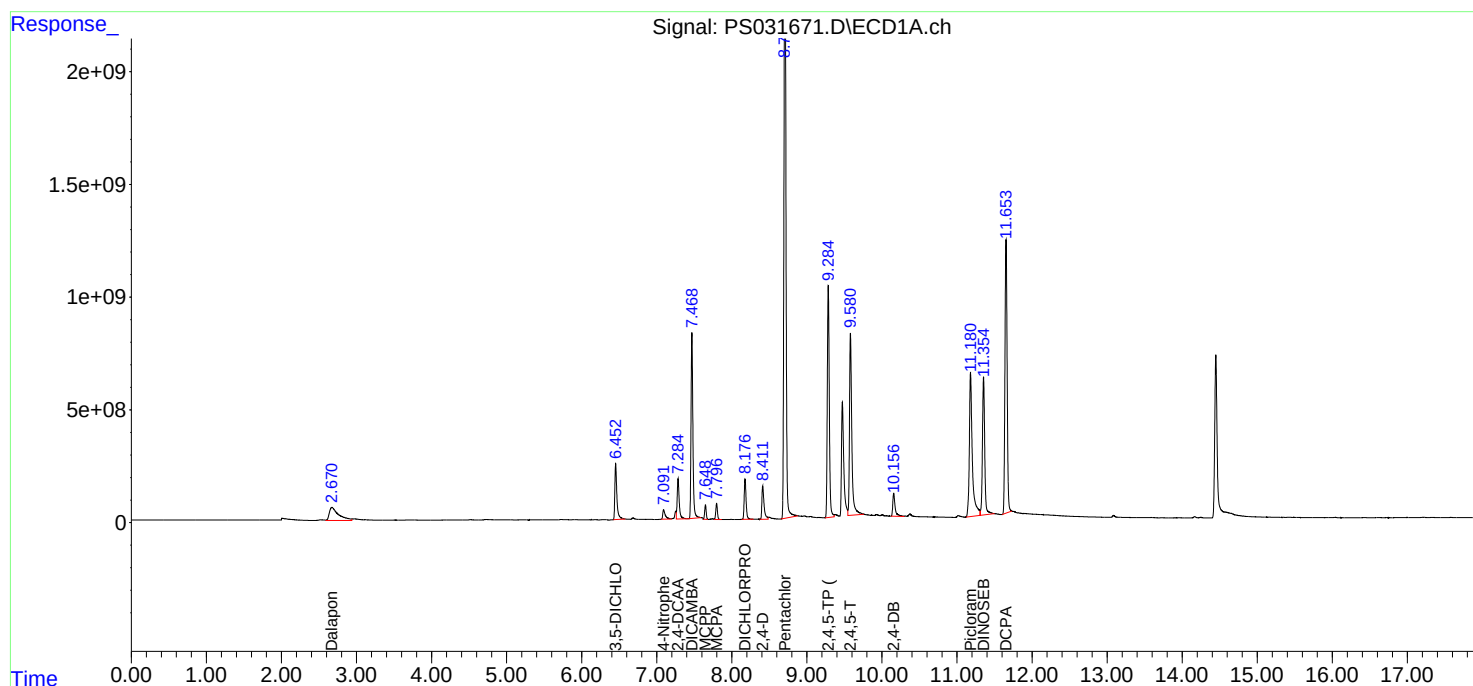
APPROVED

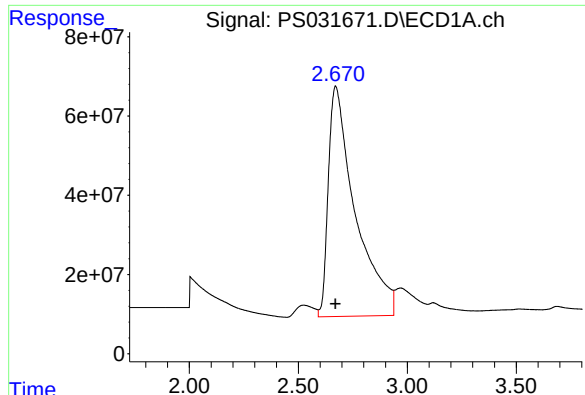
Reviewed By :Abdul Mirza 09/10/2025

Supervised By :mohammad ahmed 09/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 13:49:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090925.M
Quant Title : 8080.M
QLast Update : Tue Sep 09 13:49:21 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





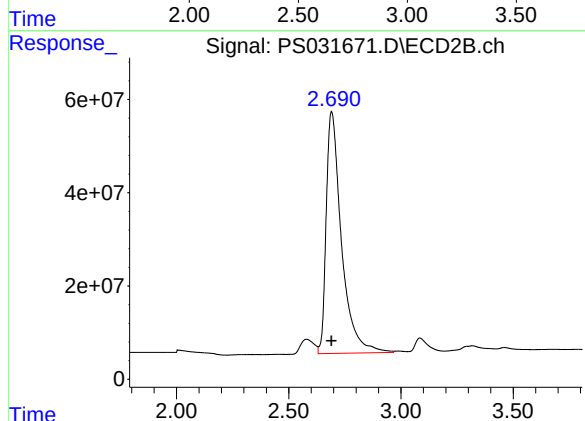
#1 Dalapon

R.T.: 2.670 min
Delta R.T.: 0.000 min
Response: 4981444731
Conc: 847.05 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

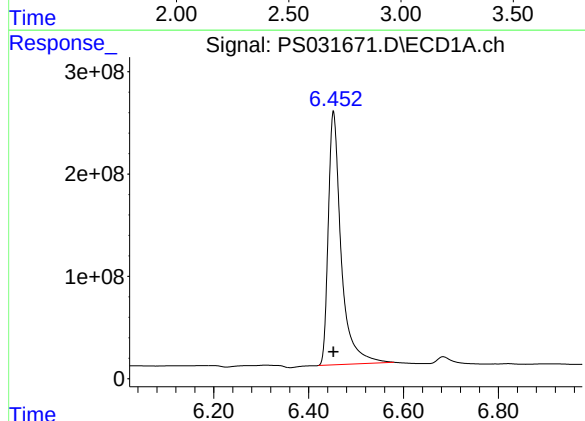
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025



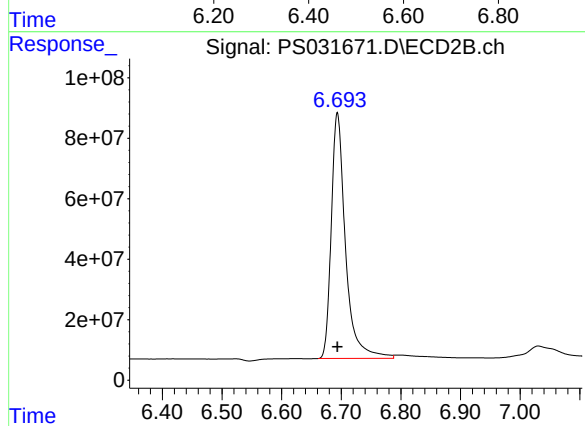
#1 Dalapon

R.T.: 2.691 min
Delta R.T.: 0.000 min
Response: 2459475076
Conc: 863.30 ng/ml



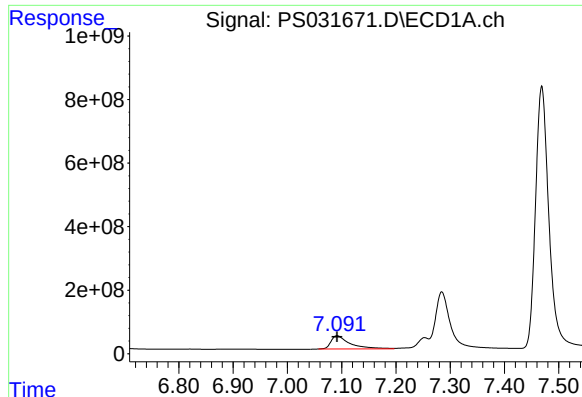
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.452 min
Delta R.T.: 0.000 min
Response: 4672837083
Conc: 856.95 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.694 min
Delta R.T.: 0.000 min
Response: 1345490363
Conc: 871.41 ng/ml



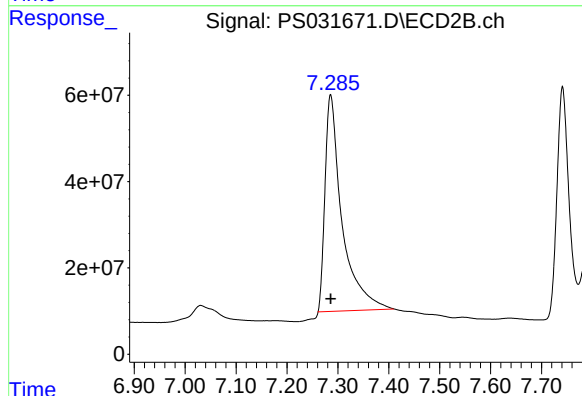
#3 4-Nitrophenol

R.T.: 7.092 min
Delta R.T.: 0.000 min
Response: 1005390188
Conc: 928.21 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

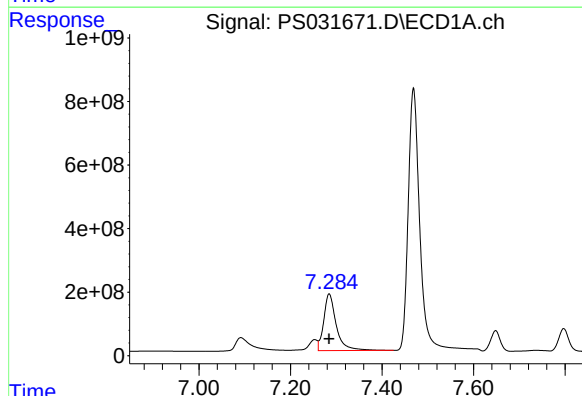
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025



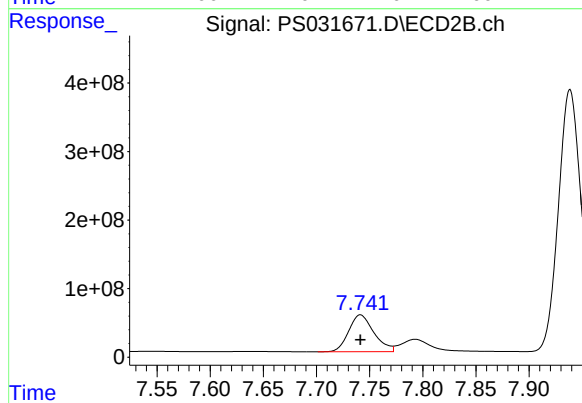
#3 4-Nitrophenol

R.T.: 7.286 min
Delta R.T.: 0.000 min
Response: 1167166469
Conc: 957.07 ng/ml



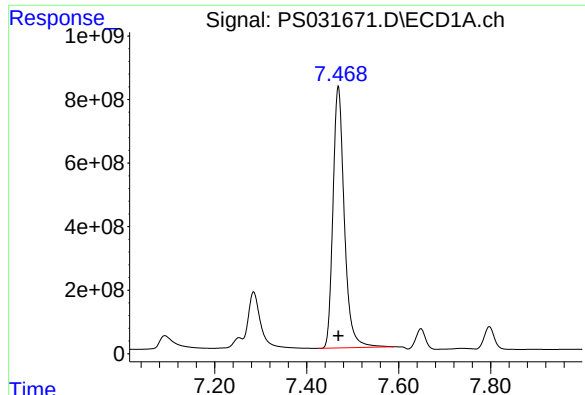
#4 2,4-DCAA

R.T.: 7.285 min
Delta R.T.: 0.000 min
Response: 3388795324
Conc: 923.39 ng/ml



#4 2,4-DCAA

R.T.: 7.741 min
Delta R.T.: 0.000 min
Response: 889944621
Conc: 969.76 ng/ml



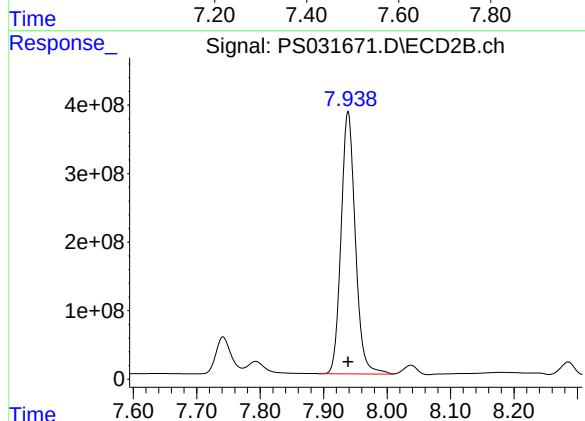
#5 DICAMBA

R.T.: 7.469 min
Delta R.T.: 0.000 min
Response: 14110972062
Conc: 892.19 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

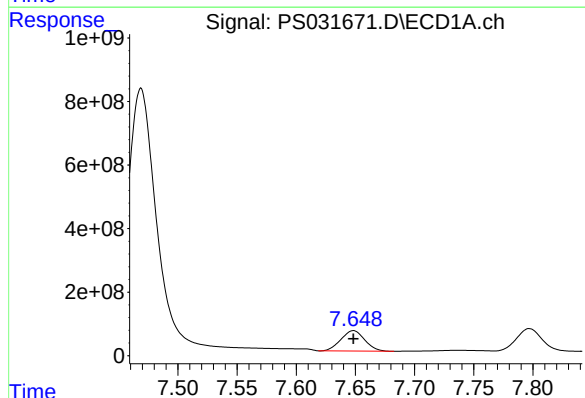
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025



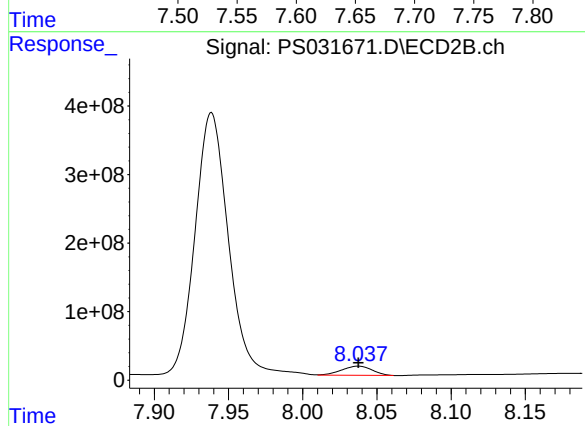
#5 DICAMBA

R.T.: 7.939 min
Delta R.T.: 0.000 min
Response: 5976464631
Conc: 910.45 ng/ml



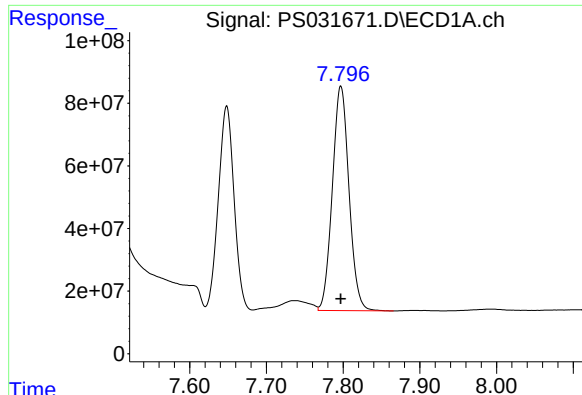
#6 MCPP

R.T.: 7.648 min
Delta R.T.: 0.000 min
Response: 899760280
Conc: 104.24 ug/ml



#6 MCPP

R.T.: 8.037 min
Delta R.T.: 0.000 min
Response: 191379499
Conc: 102.21 ug/ml



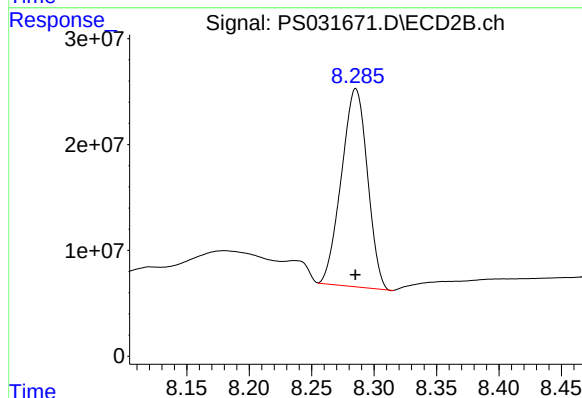
#7 MCPA

R.T.: 7.797 min
Delta R.T.: 0.000 min
Response: 1079770798
Conc: 99.41 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

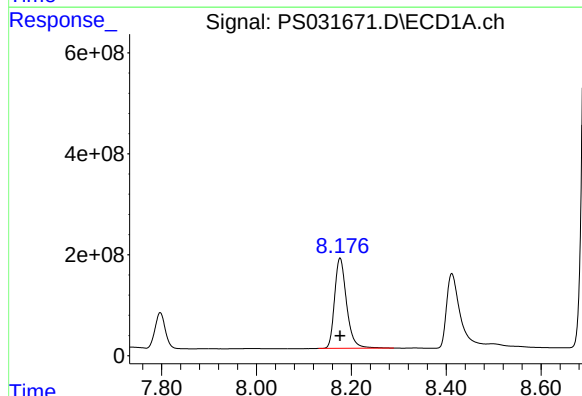
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025



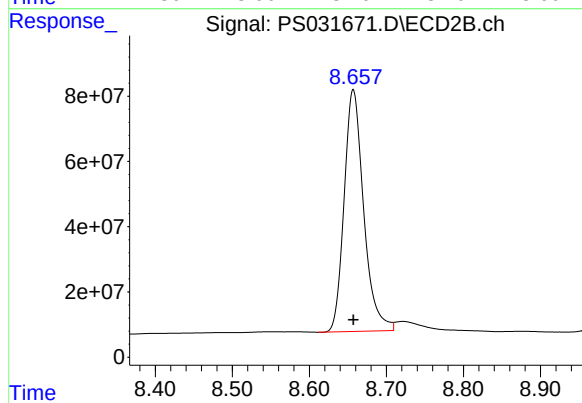
#7 MCPA

R.T.: 8.285 min
Delta R.T.: 0.000 min
Response: 272083021
Conc: 98.97 ug/ml



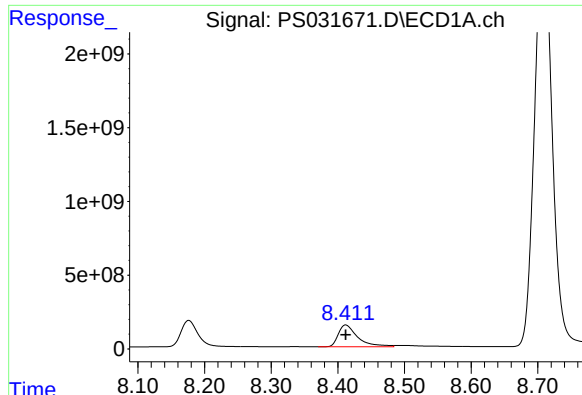
#8 DICHLORPROP

R.T.: 8.176 min
Delta R.T.: 0.000 min
Response: 3138016378
Conc: 862.28 ng/ml



#8 DICHLORPROP

R.T.: 8.657 min
Delta R.T.: 0.000 min
Response: 1302338815
Conc: 884.50 ng/ml



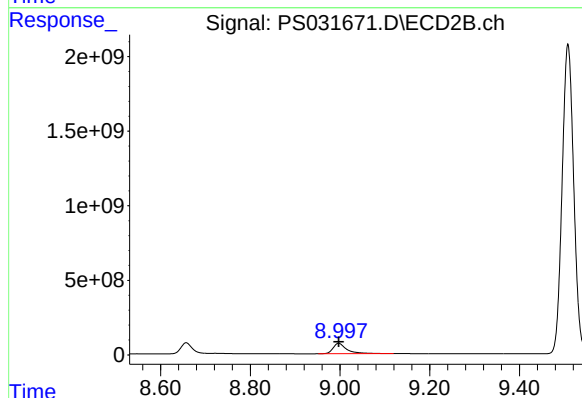
#9 2,4-D

R.T.: 8.412 min
Delta R.T.: 0.000 min
Response: 2976890228
Conc: 851.87 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

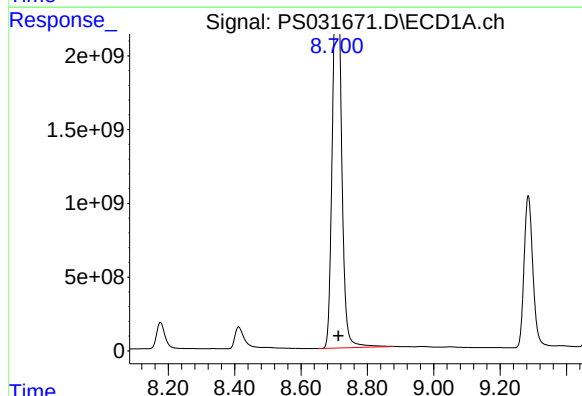
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025



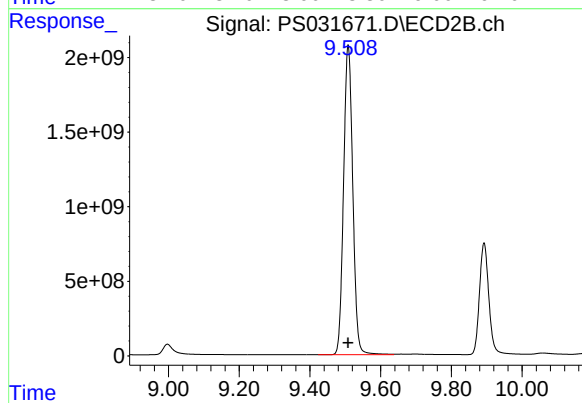
#9 2,4-D

R.T.: 8.997 min
Delta R.T.: 0.000 min
Response: 1494305659
Conc: 896.04 ng/ml



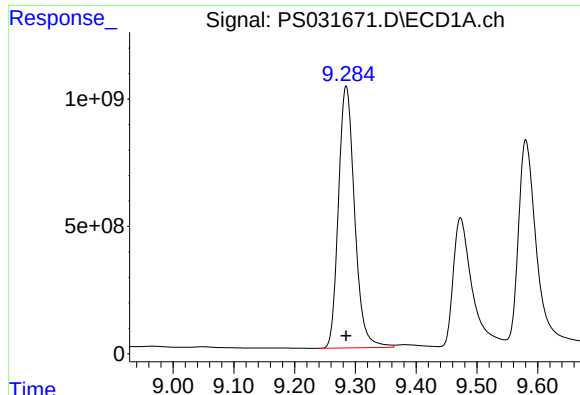
#10 Pentachlorophenol

R.T.: 8.713 min
Delta R.T.: 0.000 min
Response: 46784325060
Conc: 824.66 ng/ml



#10 Pentachlorophenol

R.T.: 9.508 min
Delta R.T.: 0.000 min
Response: 37530625048
Conc: 911.05 ng/ml



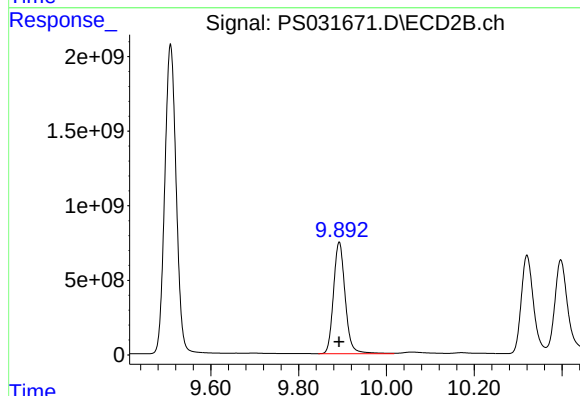
#11 2,4,5-TP (SILVEX)

R.T.: 9.285 min
Delta R.T.: 0.000 min
Response: 18997869691
Conc: 887.20 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

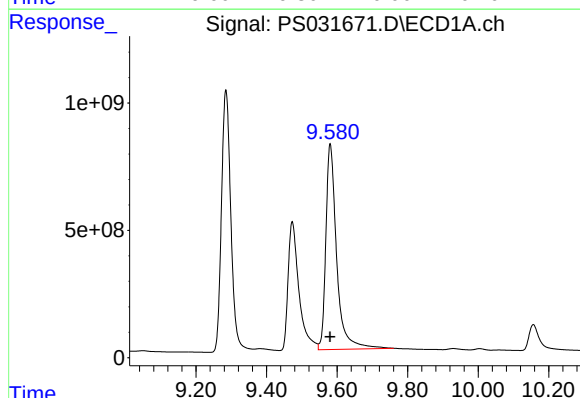
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025



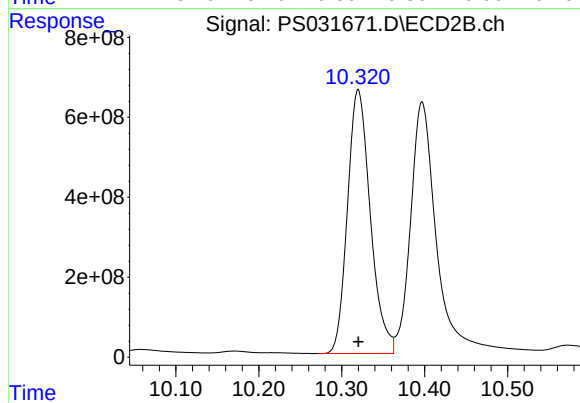
#11 2,4,5-TP (SILVEX)

R.T.: 9.892 min
Delta R.T.: 0.000 min
Response: 13825148528
Conc: 902.58 ng/ml



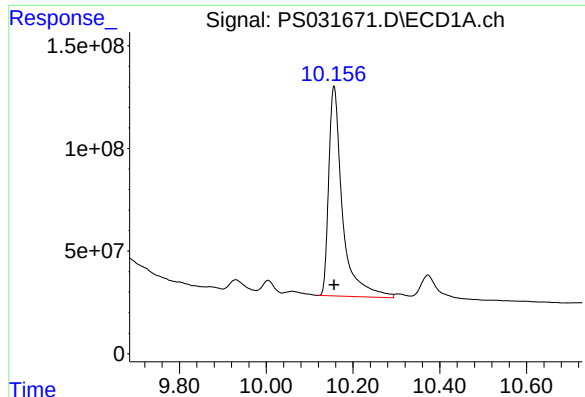
#12 2,4,5-T

R.T.: 9.580 min
Delta R.T.: 0.000 min
Response: 17196643308
Conc: 932.82 ng/ml



#12 2,4,5-T

R.T.: 10.320 min
Delta R.T.: 0.000 min
Response: 12650067600
Conc: 930.74 ng/ml



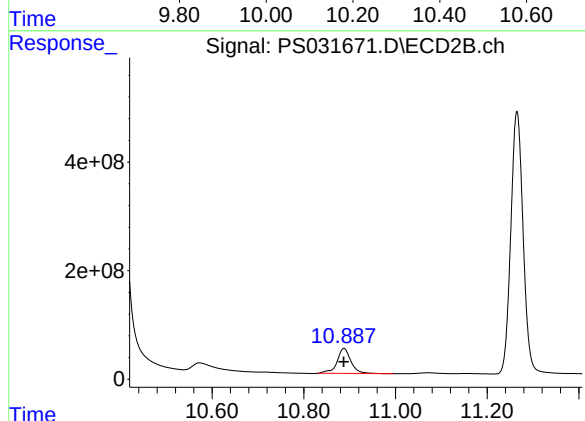
#13 2,4-DB

R.T.: 10.156 min
Delta R.T.: 0.000 min
Response: 2250578289
Conc: 977.63 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

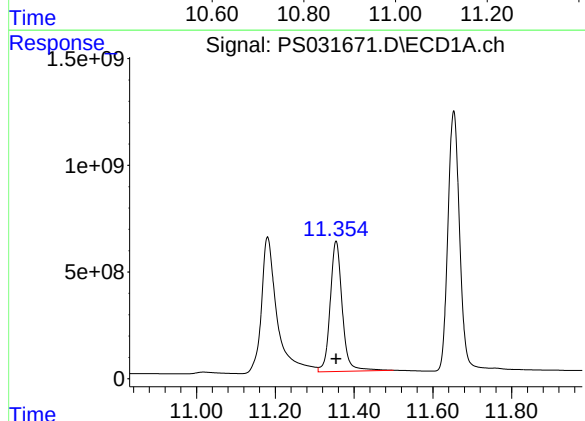
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025



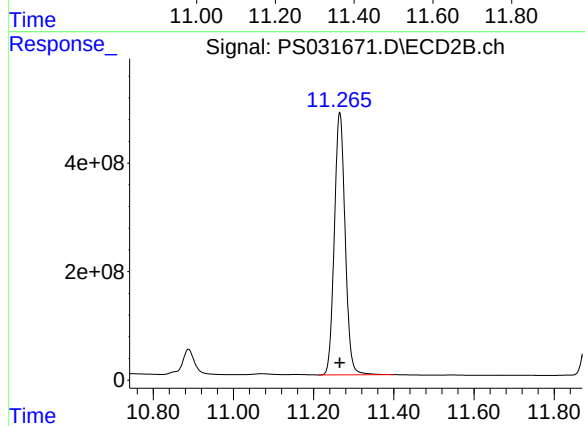
#13 2,4-DB

R.T.: 10.888 min
Delta R.T.: 0.000 min
Response: 966003314
Conc: 887.63 ng/ml



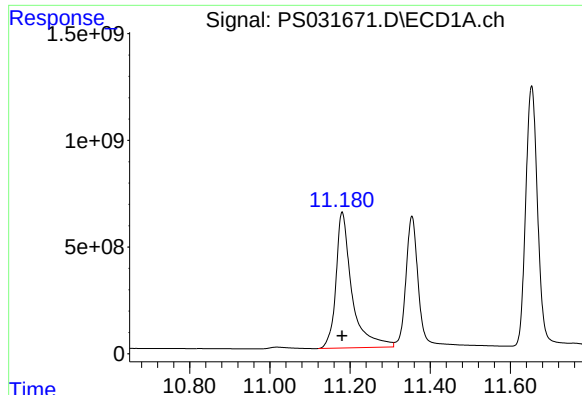
#14 DINOSEB

R.T.: 11.354 min
Delta R.T.: 0.000 min
Response: 12980163106
Conc: 883.72 ng/ml



#14 DINOSEB

R.T.: 11.265 min
Delta R.T.: 0.000 min
Response: 9032502778
Conc: 926.89 ng/ml



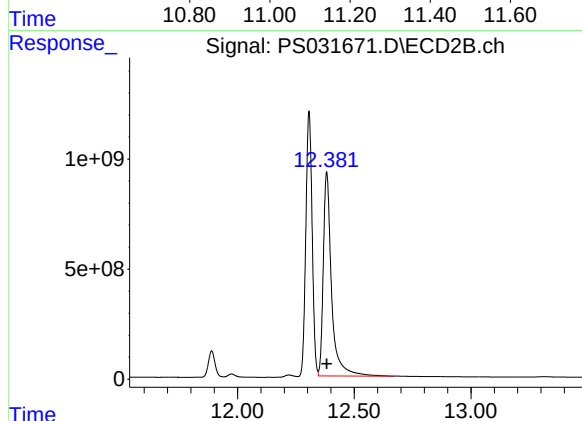
#15 Picloram

R.T.: 11.180 min
Delta R.T.: 0.000 min
Response: 17642796822
Conc: 992.95 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

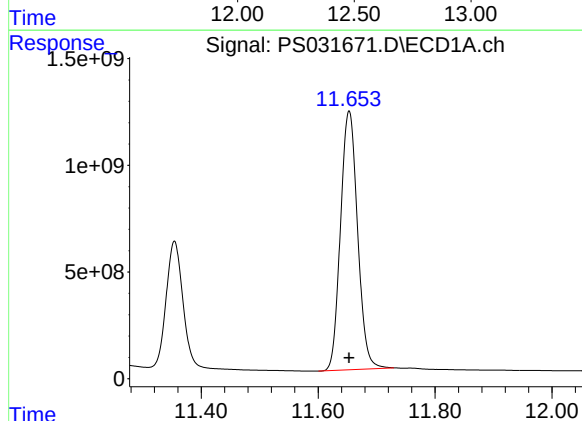
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025



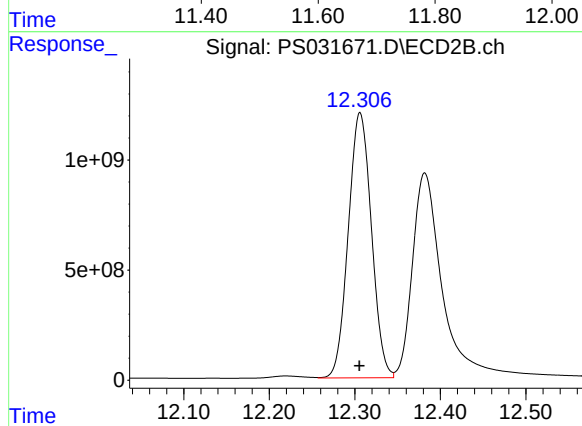
#15 Picloram

R.T.: 12.382 min
Delta R.T.: 0.000 min
Response: 22800501794
Conc: 964.51 ng/ml



#16 DCPA

R.T.: 11.653 min
Delta R.T.: 0.000 min
Response: 24572812248
Conc: 889.90 ng/ml



#16 DCPA

R.T.: 12.306 min
Delta R.T.: 0.000 min
Response: 22658636180
Conc: 926.37 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090925\
 Data File : PS031672.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09 Sep 2025 13:08
 Operator : AR\AJ
 Sample : HSTDICC1500
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC1500

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 09/10/2025
 Supervised By :mohammad ahmed 09/11/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Sep 09 13:55:08 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090925.M
 Quant Title : 8080.M
 QLast Update : Tue Sep 09 13:54:57 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	7.283	7.741	4991.7E6	1310.6E6	1385.994	1441.930
Target Compounds							
1) T	Dalapon	2.671	2.692	7343.5E6	3675.2E6	1270.340	1304.360
2) T	3,5-DICHL...	6.452	6.693	6773.2E6	2020.9E6	1269.968	1325.242
3) T	4-Nitroph...	7.090	7.283	1615.4E6	1959.9E6	1464.258	1553.188m
5) T	DICAMBA	7.469	7.939	20753.6E6	8850.7E6	1330.638	1360.214
6) T	MCPD	7.651	8.040	1433.8E6	271.7E6	160.399	144.283
7) T	MCPA	7.802	8.290	1688.4E6	419.8E6	151.962	149.880
8) T	DICHLORPROP	8.176	8.657	4585.2E6	1953.9E6	1287.334	1342.808
9) T	2,4-D	8.411	8.996	4441.5E6	2192.3E6	1296.549	1332.615
10) T	Pentachlo...	8.719	9.510	54922.3E6	47983.8E6	1034.438	1208.947
11) T	2,4,5-TP ...	9.285	9.892	27381.5E6	19952.8E6	1305.517	1325.388
12) T	2,4,5-T	9.580	10.319	25294.4E6	18410.5E6	1382.345	1368.099
13) T	2,4-DB	10.154	10.887	3499.1E6	1420.8E6	1500.000	1327.803
14) T	DINOSEB	11.354	11.265	18839.3E6	13569.0E6	1306.230	1395.887
15) T	Picloram	11.178	12.380	27051.4E6	33998.6E6	1501.929	1435.553
16) T	DCPA	11.653	12.306	34988.5E6	32459.6E6	1298.279	1346.261m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090925\
Data File : PS031672.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2025 13:08
Operator : AR\AJ
Sample : HSTDICC1500
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC1500

Manual Integrations

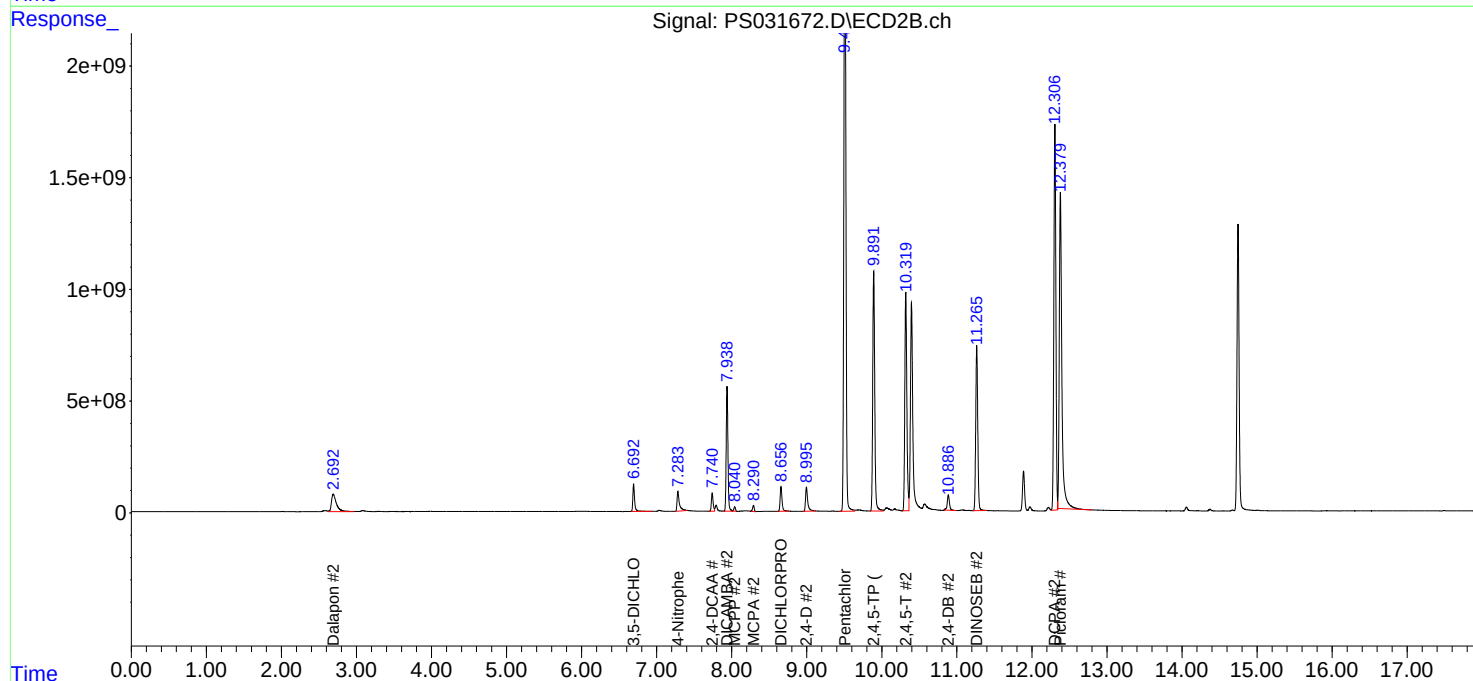
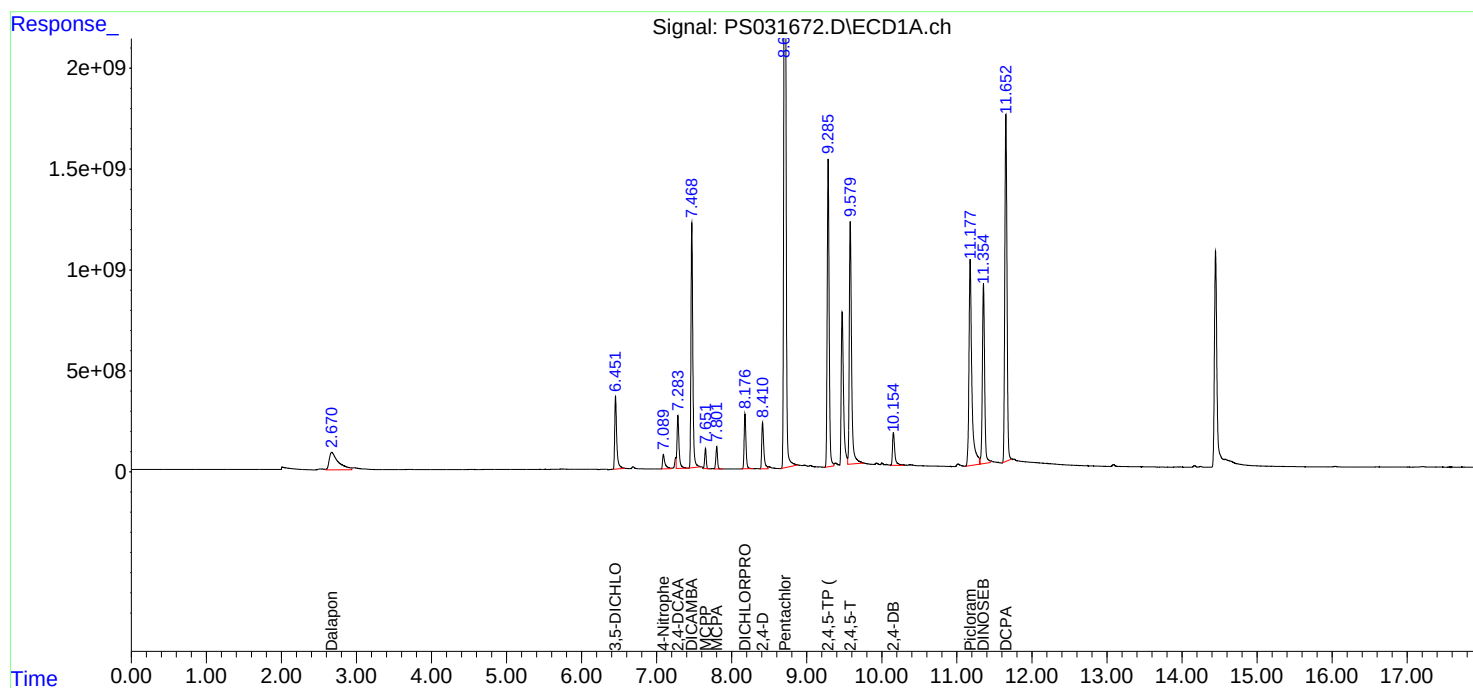
APPROVED

Reviewed By :Abdul Mirza 09/10/2025

Supervised By :mohammad ahmed 09/11/2025

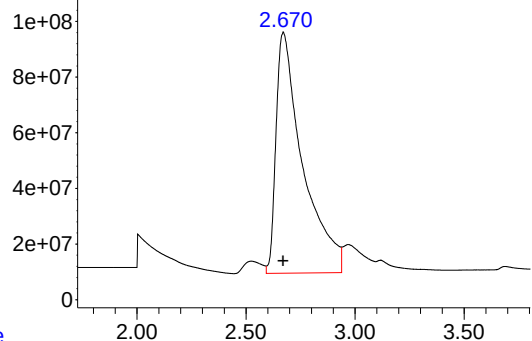
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 13:55:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090925.M
Quant Title : 8080.M
QLast Update : Tue Sep 09 13:54:57 2025
Response via : Initial Calibration
Integrator: ChemStation

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



Response_ Signal: PS031672.D\ECD1A.ch

#1 Dalapon



R.T.: 2.671 min
Delta R.T.: 0.000 min
Response: 7343511922
Conc: 1270.34 ng/ml

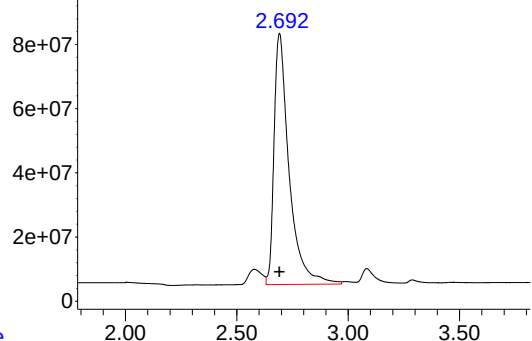
Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025

Time Response_ Signal: PS031672.D\ECD2B.ch

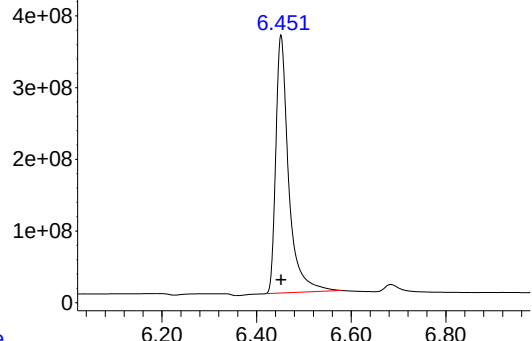
#1 Dalapon



R.T.: 2.692 min
Delta R.T.: 0.000 min
Response: 3675200043
Conc: 1304.36 ng/ml

Time Response_ Signal: PS031672.D\ECD1A.ch

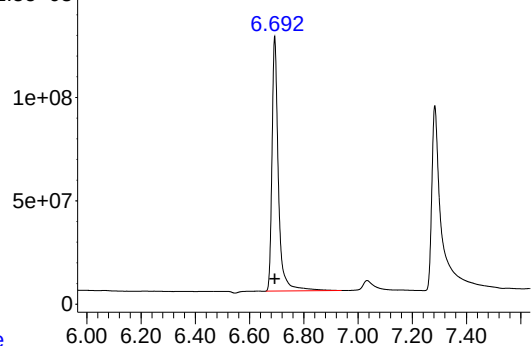
#2 3,5-DICHLOROBENZOIC ACID



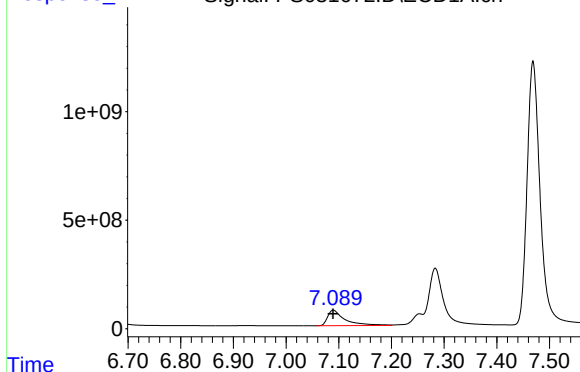
R.T.: 6.452 min
Delta R.T.: 0.000 min
Response: 6773195966
Conc: 1269.97 ng/ml

Time Response_ Signal: PS031672.D\ECD2B.ch

#2 3,5-DICHLOROBENZOIC ACID



R.T.: 6.693 min
Delta R.T.: 0.000 min
Response: 2020947662
Conc: 1325.24 ng/ml



R.T.: 7.090 min
Delta R.T.: 0.000 min
Response: 1615383144
Conc: 1464.26 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Manual Integrations
APPROVED

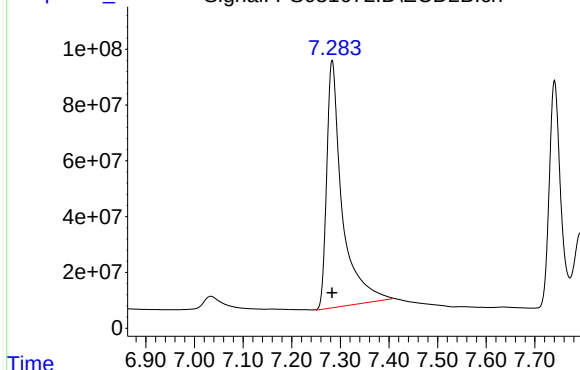
Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025

Time

Response_

Signal: PS031672.D\ECD2B.ch

#3 4-Nitrophenol



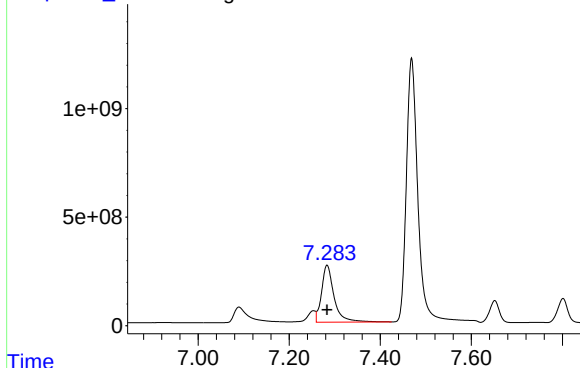
R.T.: 7.283 min
Delta R.T.: 0.000 min
Response: 1959939172
Conc: 1553.19 ng/ml

Time

Response_

Signal: PS031672.D\ECD1A.ch

#4 2,4-DCAA



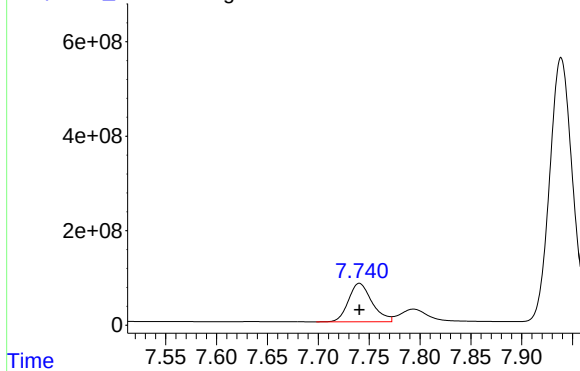
R.T.: 7.283 min
Delta R.T.: 0.000 min
Response: 4991695949
Conc: 1385.99 ng/ml

Time

Response_

Signal: PS031672.D\ECD2B.ch

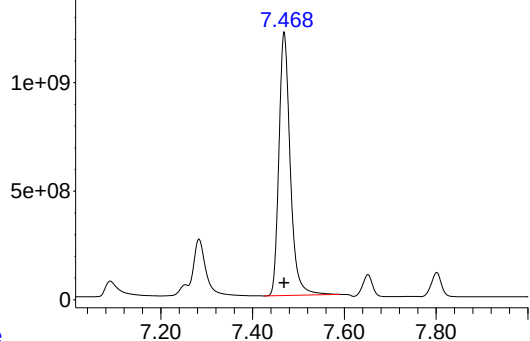
#4 2,4-DCAA



R.T.: 7.741 min
Delta R.T.: 0.000 min
Response: 1310569864
Conc: 1441.93 ng/ml

Response_ Signal: PS031672.D\ECD1A.ch

#5 DICAMBA



R.T.: 7.469 min
Delta R.T.: 0.000 min
Response: 20753567624
Conc: 1330.64 ng/ml

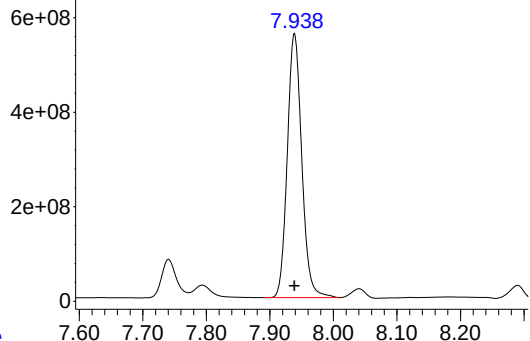
Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025

Time Response_ Signal: PS031672.D\ECD2B.ch

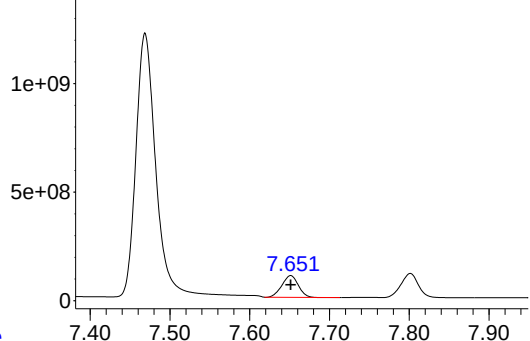
#5 DICAMBA



R.T.: 7.939 min
Delta R.T.: 0.000 min
Response: 8850704566
Conc: 1360.21 ng/ml

Time Response_ Signal: PS031672.D\ECD1A.ch

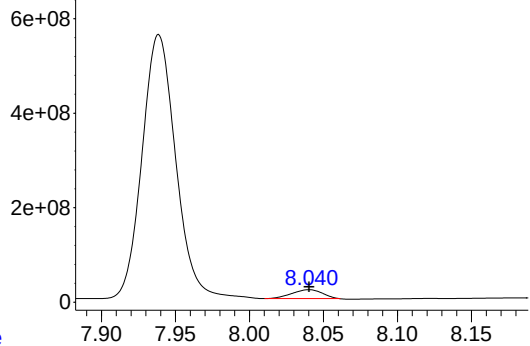
#6 MCP



R.T.: 7.651 min
Delta R.T.: 0.000 min
Response: 1433847168
Conc: 160.40 ug/ml

Time Response_ Signal: PS031672.D\ECD2B.ch

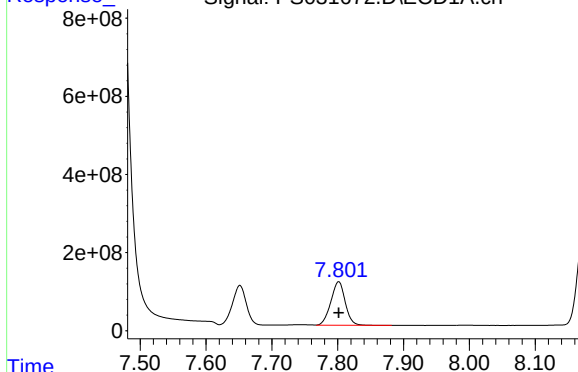
#6 MCP



R.T.: 8.040 min
Delta R.T.: 0.000 min
Response: 271742945
Conc: 144.28 ug/ml

Response_ Signal: PS031672.D\ECD1A.ch

#7 MCPA



R.T.: 7.802 min
Delta R.T.: 0.000 min
Response: 1688368418
Conc: 151.96 ug/ml

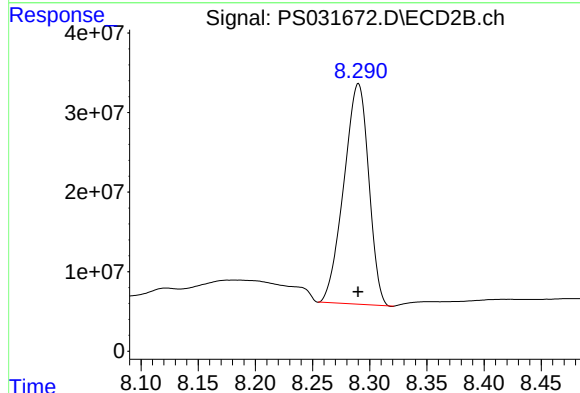
Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025

Response_ Signal: PS031672.D\ECD2B.ch

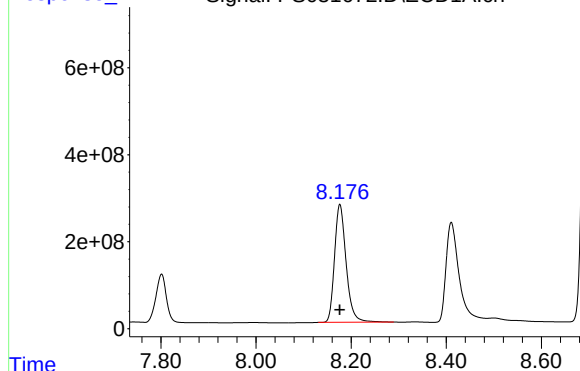
#7 MCPA



R.T.: 8.290 min
Delta R.T.: 0.000 min
Response: 419846998
Conc: 149.88 ug/ml

Response_ Signal: PS031672.D\ECD1A.ch

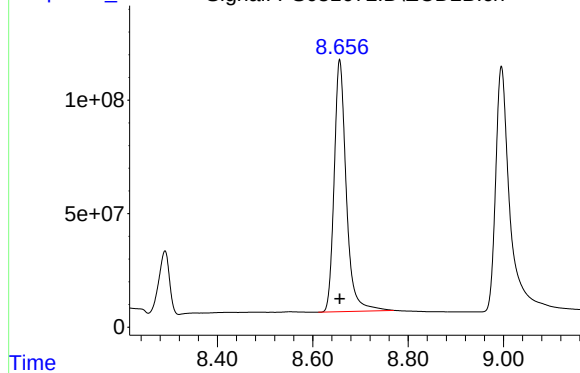
#8 DICHLORPROP



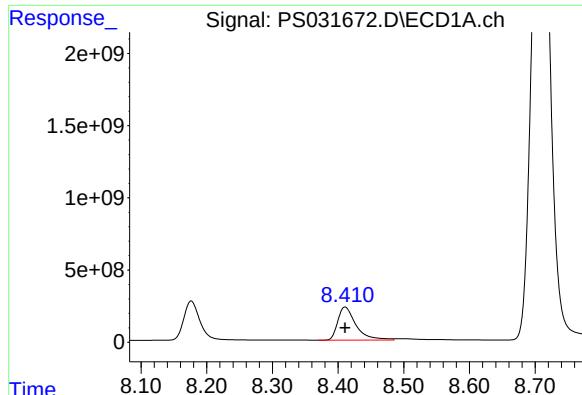
R.T.: 8.176 min
Delta R.T.: 0.000 min
Response: 4585179841
Conc: 1287.33 ng/ml

Response_ Signal: PS031672.D\ECD2B.ch

#8 DICHLORPROP



R.T.: 8.657 min
Delta R.T.: 0.000 min
Response: 1953867172
Conc: 1342.81 ng/ml



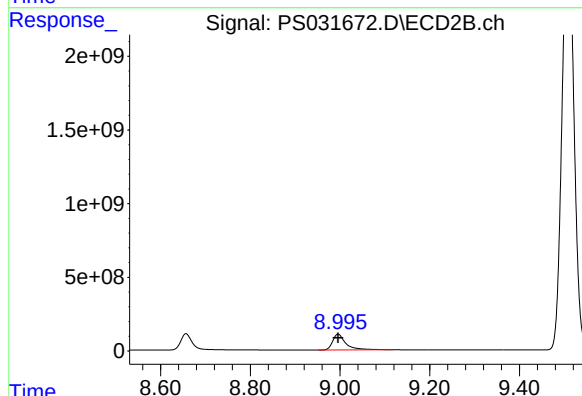
#9 2,4-D

R.T.: 8.411 min
Delta R.T.: 0.000 min
Response: 4441511629
Conc: 1296.55 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

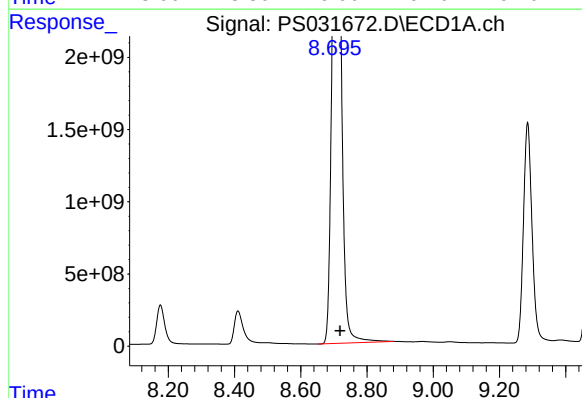
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025



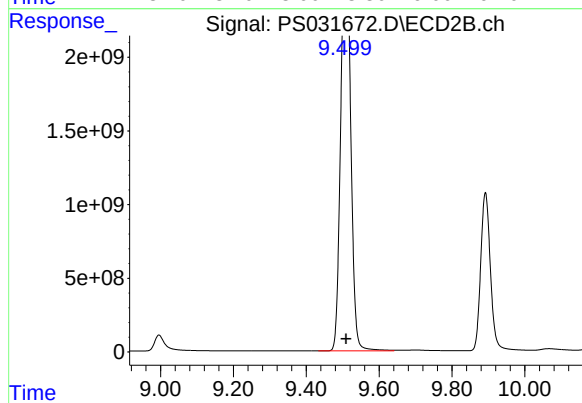
#9 2,4-D

R.T.: 8.996 min
Delta R.T.: 0.000 min
Response: 2192299829
Conc: 1332.62 ng/ml



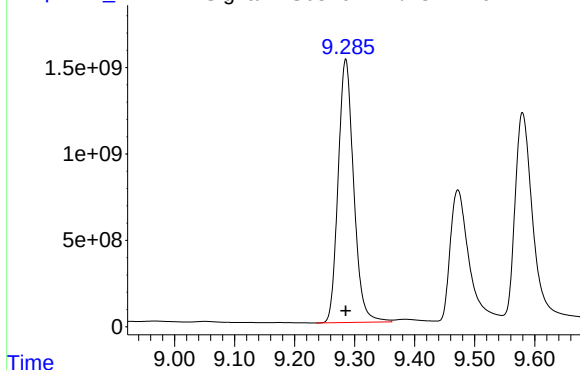
#10 Pentachlorophenol

R.T.: 8.719 min
Delta R.T.: 0.000 min
Response: 54922297046
Conc: 1034.44 ng/ml



#10 Pentachlorophenol

R.T.: 9.510 min
Delta R.T.: 0.000 min
Response: 47983753497
Conc: 1208.95 ng/ml



R.T.: 9.285 min
Delta R.T.: 0.000 min
Response: 27381508954
Conc: 1305.52 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Manual Integrations
APPROVED

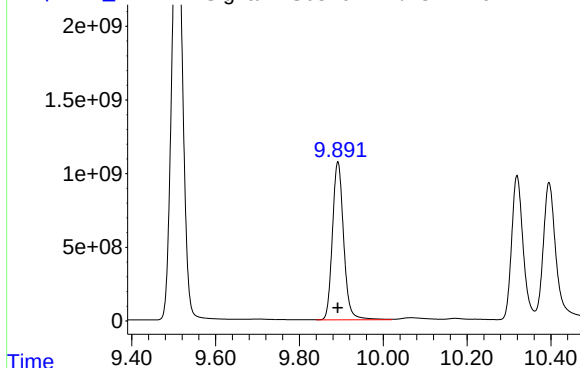
Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025

Time

Response_

Signal: PS031672.D\ECD2B.ch

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



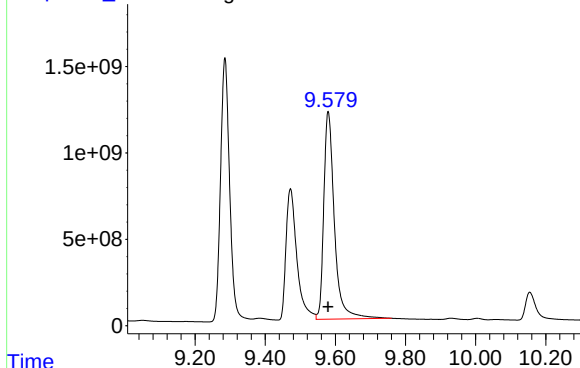
R.T.: 9.892 min
Delta R.T.: 0.000 min
Response: 19952811945
Conc: 1325.39 ng/ml

Time

Response_

Signal: PS031672.D\ECD1A.ch

#12 2,4,5-T



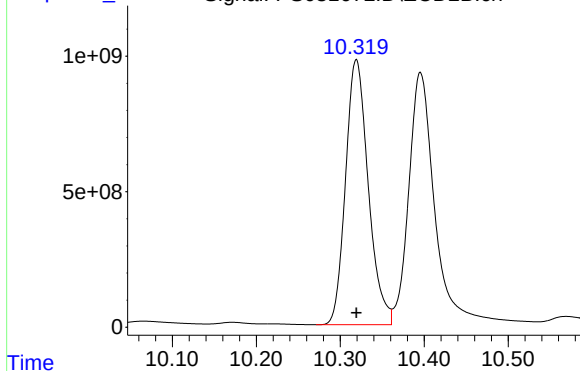
R.T.: 9.580 min
Delta R.T.: 0.000 min
Response: 25294388827
Conc: 1382.34 ng/ml

Time

Response_

Signal: PS031672.D\ECD2B.ch

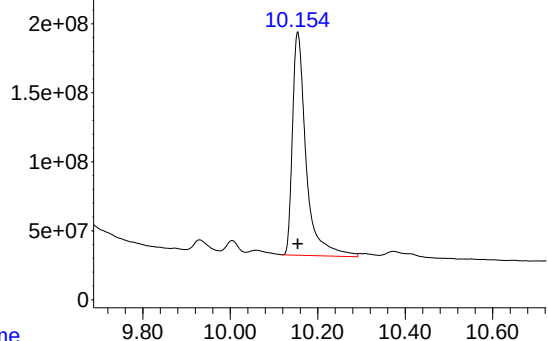
#12 2,4,5-T



R.T.: 10.319 min
Delta R.T.: 0.000 min
Response: 18410528673
Conc: 1368.10 ng/ml

Response_ Signal: PS031672.D\ECD1A.ch

#13 2,4-DB



R.T.: 10.154 min
Delta R.T.: 0.000 min
Response: 3499149613
Conc: 1500.00 ng/ml

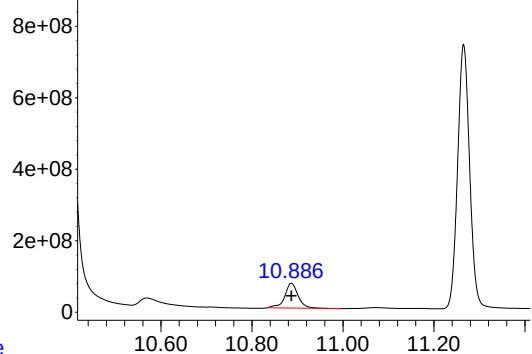
Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025

Time Response_ Signal: PS031672.D\ECD2B.ch

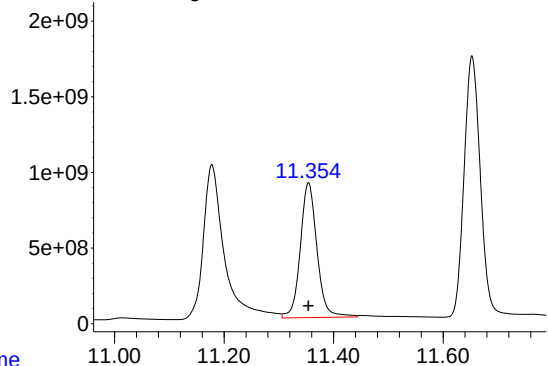
#13 2,4-DB



R.T.: 10.887 min
Delta R.T.: 0.000 min
Response: 1420808078
Conc: 1327.80 ng/ml

Time Response_ Signal: PS031672.D\ECD1A.ch

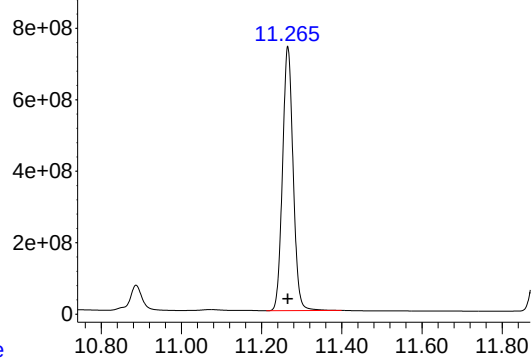
#14 DINOSEB



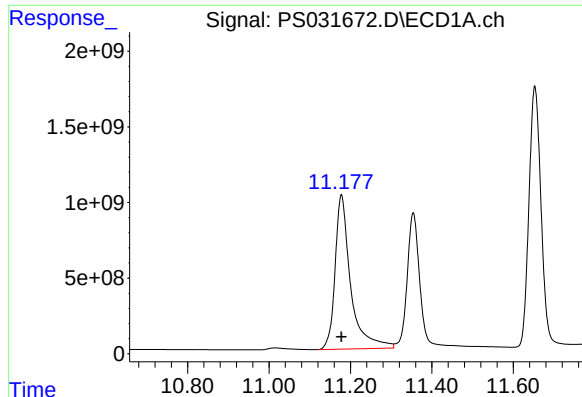
R.T.: 11.354 min
Delta R.T.: 0.000 min
Response: 18839345215
Conc: 1306.23 ng/ml

Time Response_ Signal: PS031672.D\ECD2B.ch

#14 DINOSEB



R.T.: 11.265 min
Delta R.T.: 0.000 min
Response: 13568975757
Conc: 1395.89 ng/ml



#15 Picloram

R.T.: 11.178 min
Delta R.T.: 0.000 min
Response: 27051351802
Conc: 1501.93 ng/ml

Instrument :

ECD_S

ClientSampleId :

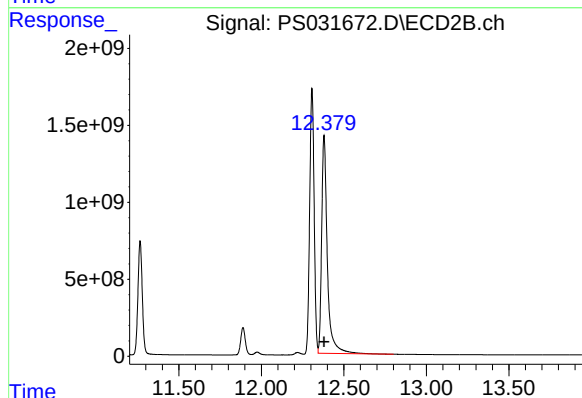
HSTDICC1500

Manual Integrations

APPROVED

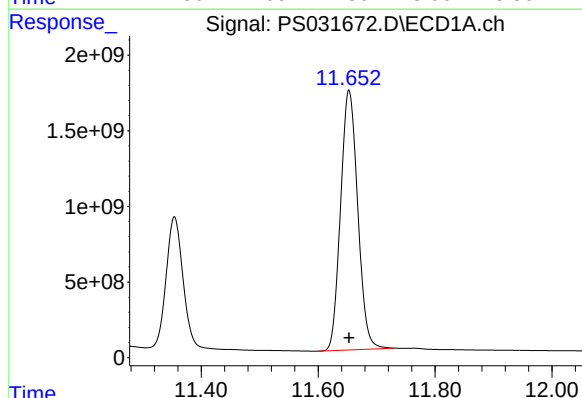
Reviewed By :Abdul Mirza 09/10/2025

Supervised By :mohammad ahmed 09/11/2025



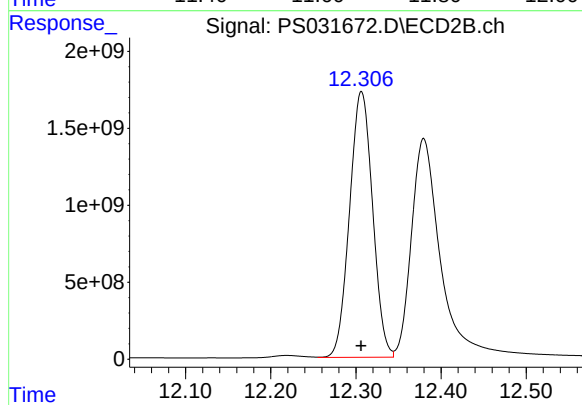
#15 Picloram

R.T.: 12.380 min
Delta R.T.: 0.000 min
Response: 33998569205
Conc: 1435.55 ng/ml



#16 DCPA

R.T.: 11.653 min
Delta R.T.: 0.000 min
Response: 34988471500
Conc: 1298.28 ng/ml



#16 DCPA

R.T.: 12.306 min
Delta R.T.: 0.000 min
Response: 32459608144
Conc: 1346.26 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090925\
Data File : PS031673.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2025 13:32
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
ICVPS090925

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 14:01:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090925.M
Quant Title : 8080.M
QLast Update : Tue Sep 09 13:56:38 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	7.285	7.743	2669.9E6	664.5E6	741.312	731.125
Target Compounds						
1) T Dalapon	2.671	2.692	3846.0E6	1914.1E6	665.317	679.331
2) T 3,5-DICHL...	6.453	6.695	3632.5E6	1060.1E6	681.096	695.175
3) T 4-Nitroph...	7.095	7.292	796.7E6	862.9E6	722.188	683.364
5) T DICAMBA	7.469	7.939	10969.6E6	4533.5E6	703.328	696.730
6) T MCPP	7.648	8.036	644.8E6	143.9E6	72.131	76.416
7) T MCPA	7.796	8.283	782.3E6	202.2E6	70.407	72.176
8) T DICHLORPROP	8.177	8.658	2433.2E6	1029.8E6	683.159	707.724
9) T 2,4-D	8.414	9.000	2340.4E6	1133.8E6	683.202	689.196
10) T Pentachlo...	8.709	9.509	39939.4E6	28928.7E6	752.241	728.856
11) T 2,4,5-TP ...	9.286	9.893	14806.4E6	10632.5E6	705.953	706.278
12) T 2,4,5-T	9.583	10.321	13196.2E6	9484.7E6	721.178	704.816
13) T 2,4-DB	10.157	10.890	1701.4E6	715.0E6	729.363	668.181
14) T DINOSEB	11.354	11.265	10373.4E6	7109.8E6	719.243	731.411
15) T Picloram	11.183	12.385	13055.3E6	17381.7E6	724.846	733.926
16) T DCPA	11.653	12.306	19291.7E6	17437.4E6	715.835	723.422

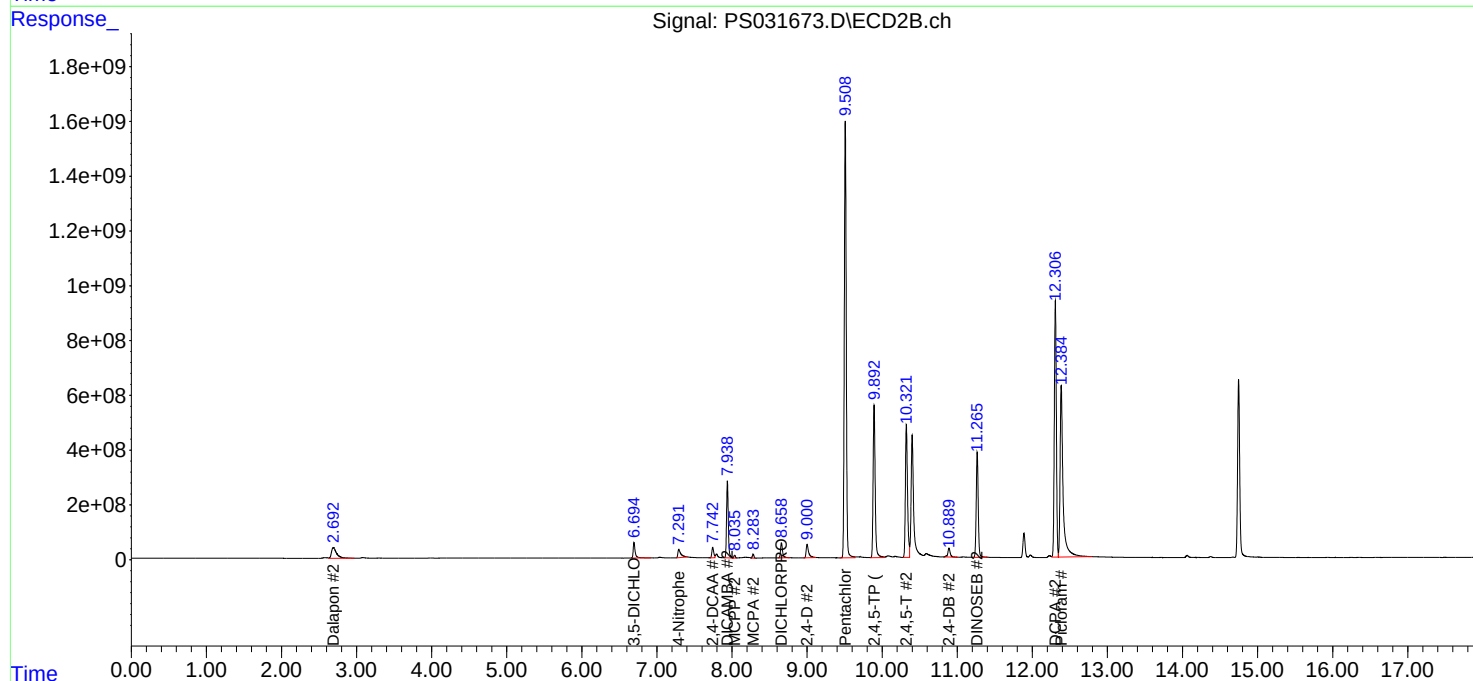
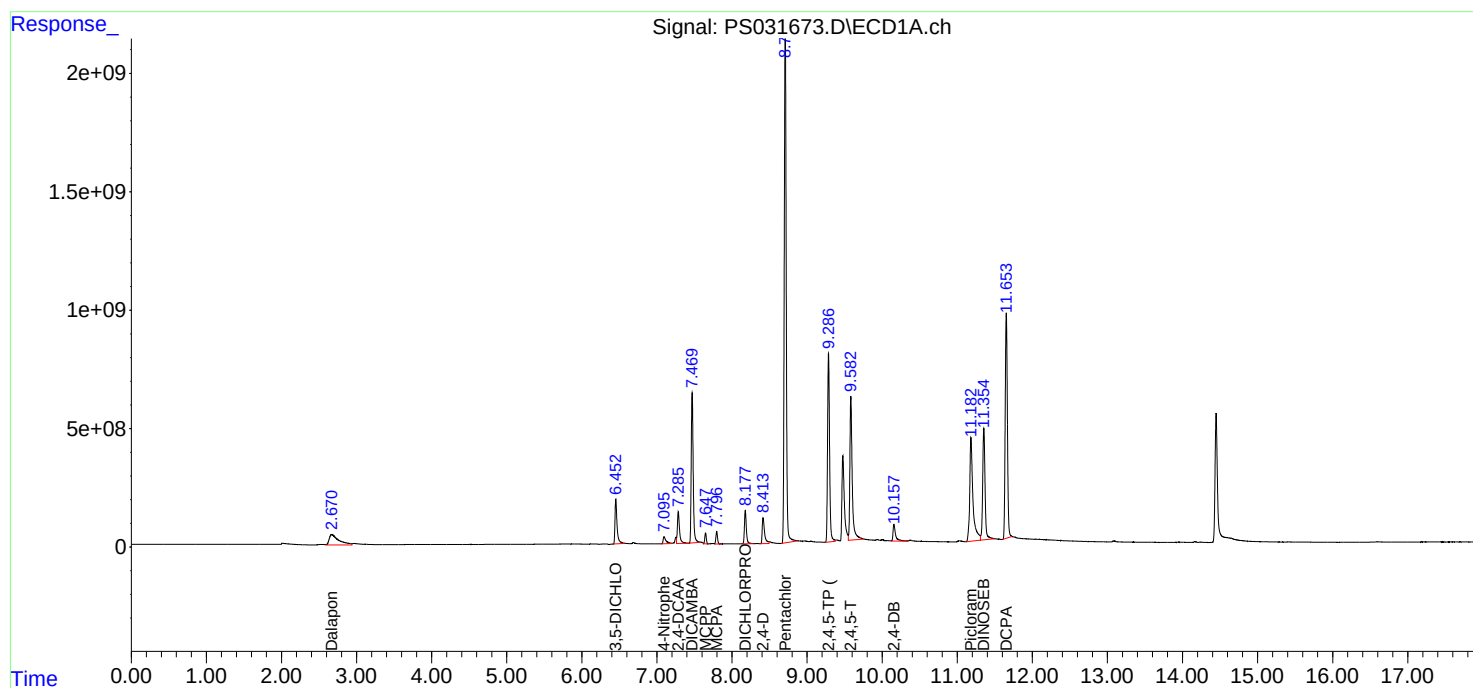
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

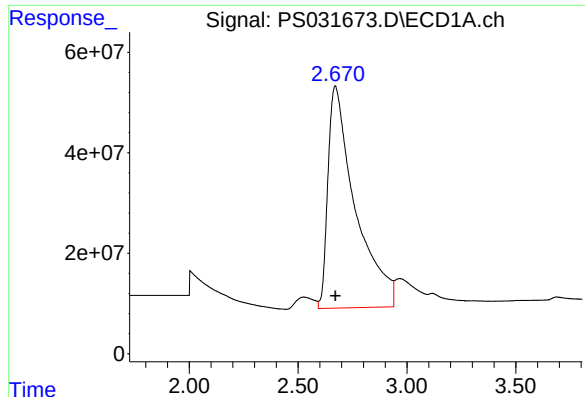
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090925\
Data File : PS031673.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2025 13:32
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
ICVPS090925

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 14:01:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090925.M
Quant Title : 8080.M
QLast Update : Tue Sep 09 13:56:38 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

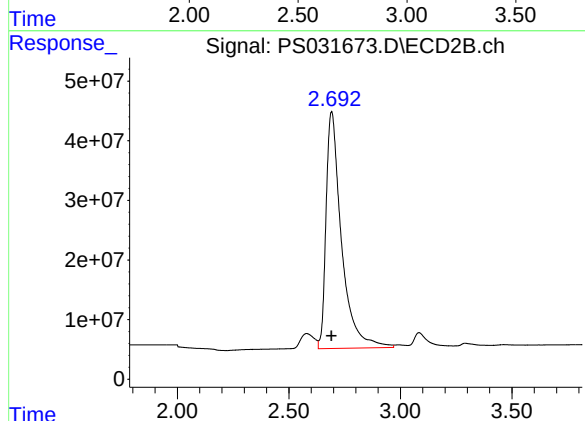




#1 Dalapon

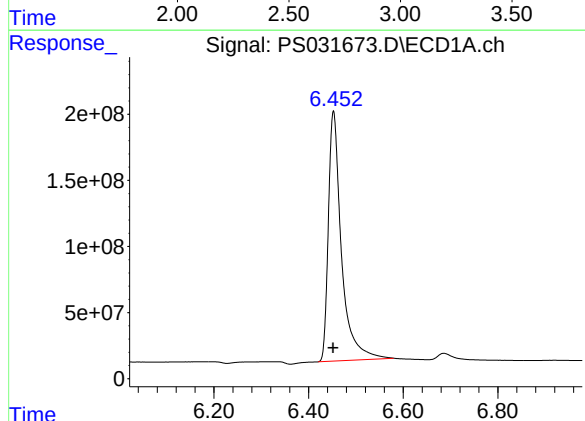
R.T.: 2.671 min
Delta R.T.: 0.000 min
Response: 3846029947
Conc: 665.32 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS090925



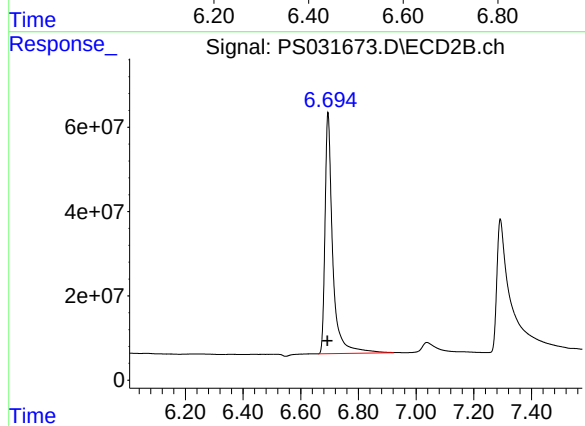
#1 Dalapon

R.T.: 2.692 min
Delta R.T.: 0.000 min
Response: 1914101970
Conc: 679.33 ng/ml



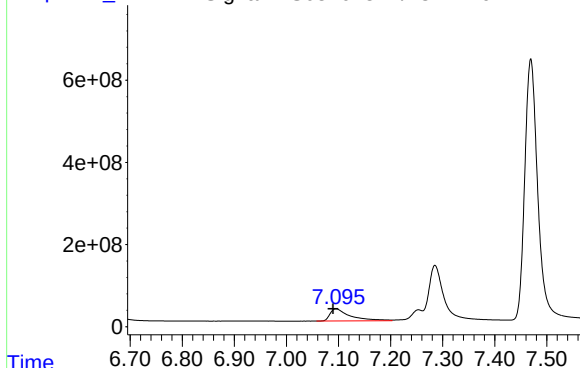
#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.453 min
Delta R.T.: 0.001 min
Response: 3632529912
Conc: 681.10 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.695 min
Delta R.T.: 0.002 min
Response: 1060118484
Conc: 695.18 ng/ml



R.T.: 7.095 min
Delta R.T.: 0.006 min
Response: 796724609
Conc: 722.19 ng/ml

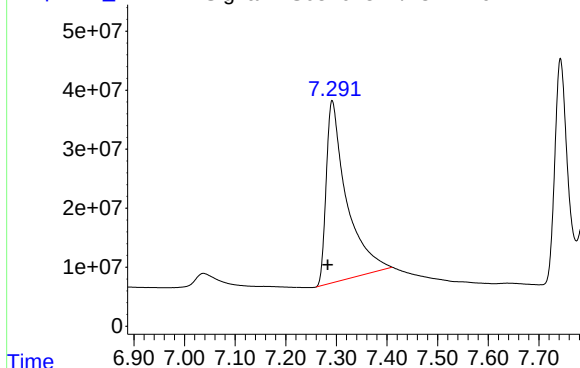
Instrument :
ECD_S
ClientSampleId :
ICVPS090925

Time

Response_

Signal: PS031673.D\ECD2B.ch

#3 4-Nitrophenol



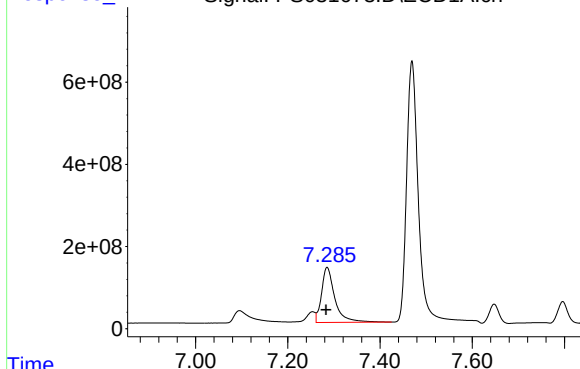
R.T.: 7.292 min
Delta R.T.: 0.009 min
Response: 862942555
Conc: 683.36 ng/ml

Time

Response_

Signal: PS031673.D\ECD1A.ch

#4 2,4-DCAA



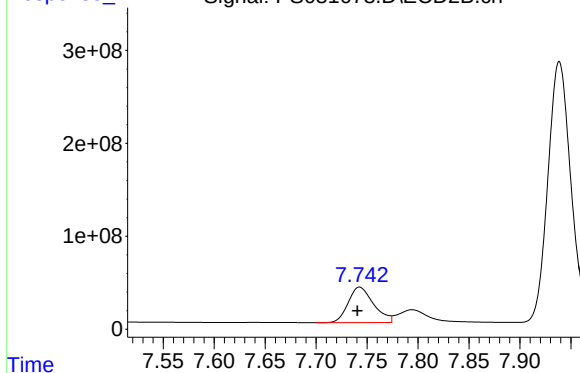
R.T.: 7.285 min
Delta R.T.: 0.002 min
Response: 2669855531
Conc: 741.31 ng/ml

Time

Response_

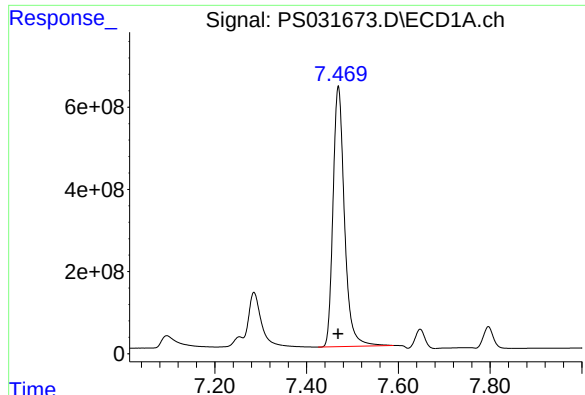
Signal: PS031673.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.743 min
Delta R.T.: 0.002 min
Response: 664519466
Conc: 731.13 ng/ml

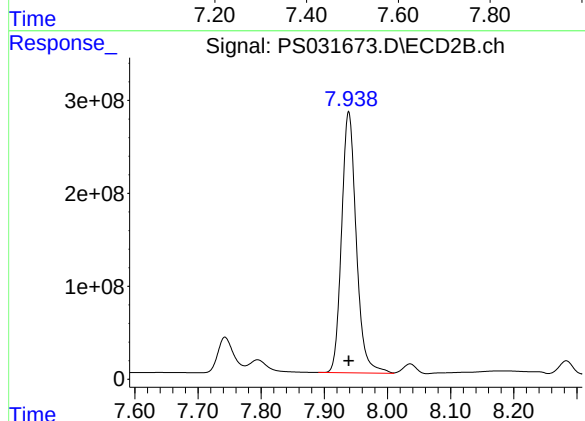
Time



#5 DICAMBA

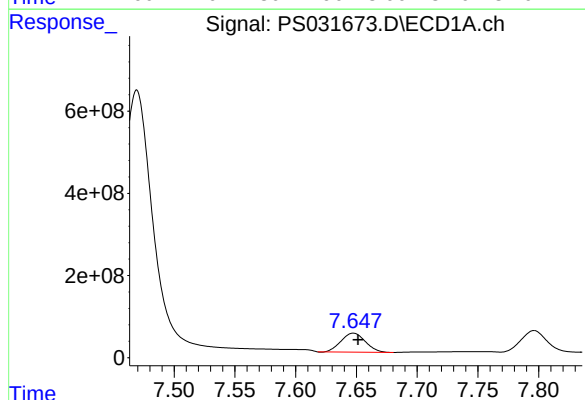
R.T.: 7.469 min
Delta R.T.: 0.000 min
Response: 10969609522
Conc: 703.33 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS090925



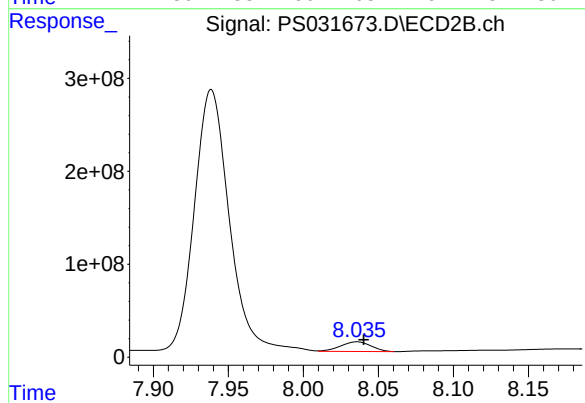
#5 DICAMBA

R.T.: 7.939 min
Delta R.T.: 0.000 min
Response: 4533517828
Conc: 696.73 ng/ml



#6 MCP

R.T.: 7.648 min
Delta R.T.: -0.004 min
Response: 644791754
Conc: 72.13 ug/ml



#6 MCP

R.T.: 8.036 min
Delta R.T.: -0.004 min
Response: 143922577
Conc: 76.42 ug/ml

Response_ Signal: PS031673.D\ECD1A.ch

#7 MCPA

R.T.: 7.796 min
Delta R.T.: -0.005 min
Response: 782254964
Conc: 70.41 ug/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS090925

Time

Response_ Signal: PS031673.D\ECD2B.ch

#7 MCPA

R.T.: 8.283 min
Delta R.T.: -0.007 min
Response: 202181859
Conc: 72.18 ug/ml

Time

Response_ Signal: PS031673.D\ECD1A.ch

#8 DICHLORPROP

R.T.: 8.177 min
Delta R.T.: 0.000 min
Response: 2433249818
Conc: 683.16 ng/ml

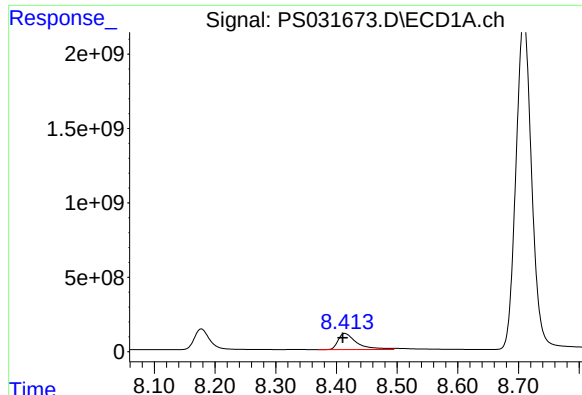
Time

Response_ Signal: PS031673.D\ECD2B.ch

#8 DICHLORPROP

R.T.: 8.658 min
Delta R.T.: 0.002 min
Response: 1029781259
Conc: 707.72 ng/ml

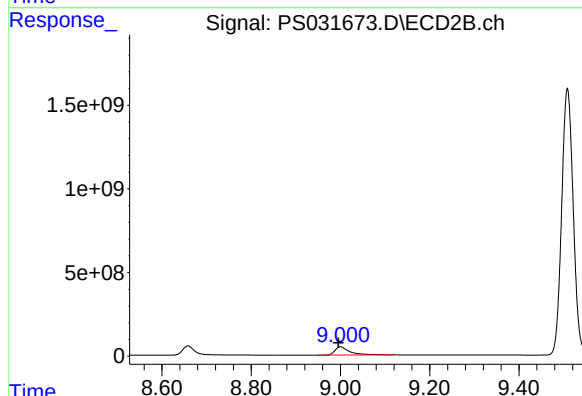
Time



#9 2,4-D

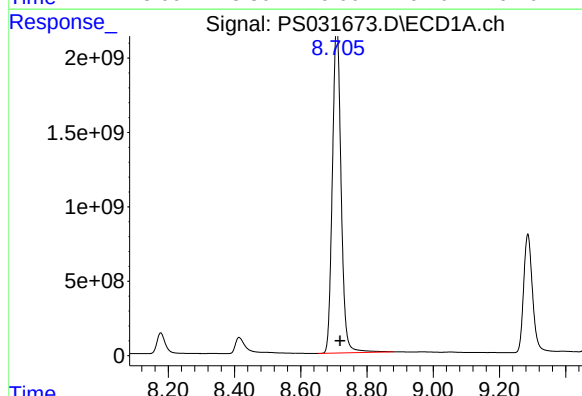
R.T.: 8.414 min
Delta R.T.: 0.003 min
Response: 2340405199
Conc: 683.20 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS090925



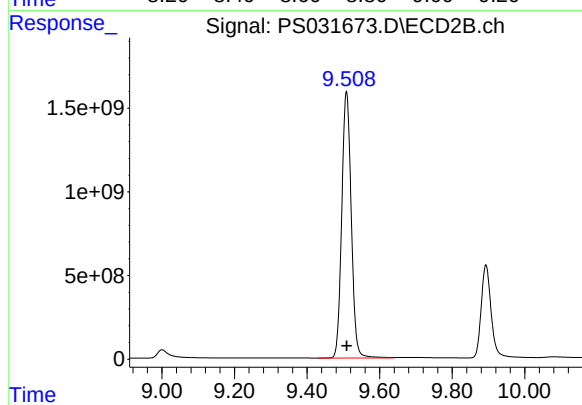
#9 2,4-D

R.T.: 9.000 min
Delta R.T.: 0.005 min
Response: 1133804293
Conc: 689.20 ng/ml



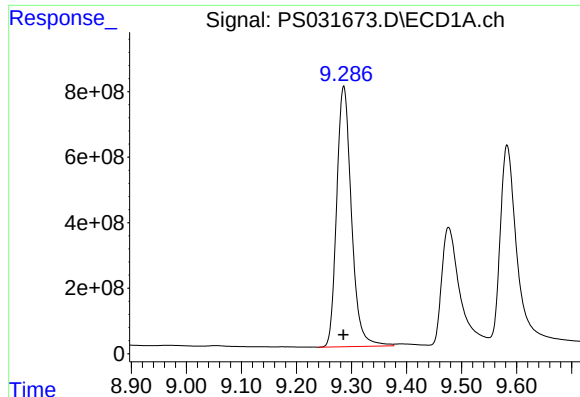
#10 Pentachlorophenol

R.T.: 8.709 min
Delta R.T.: -0.010 min
Response: 39939356009
Conc: 752.24 ng/ml



#10 Pentachlorophenol

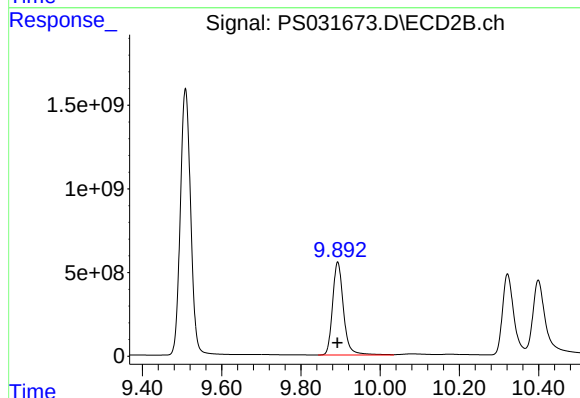
R.T.: 9.509 min
Delta R.T.: -0.001 min
Response: 28928696778
Conc: 728.86 ng/ml



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

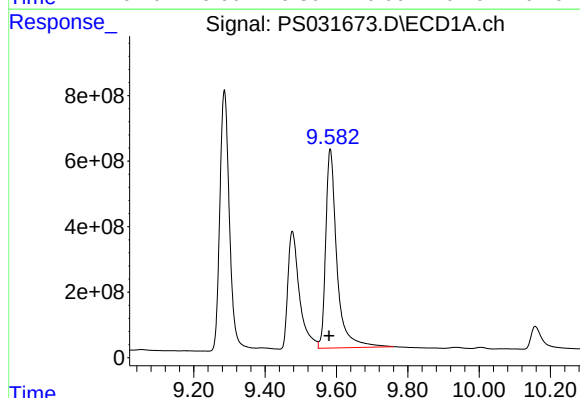
R.T.: 9.286 min
Delta R.T.: 0.000 min
Response: 14806429430
Conc: 705.95 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS090925



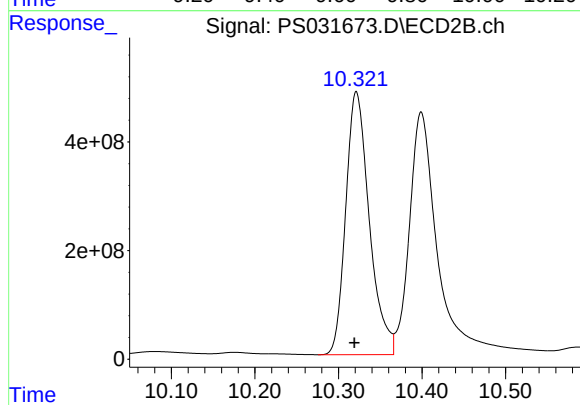
#11 2,4,5-TP (SILVEX)

R.T.: 9.893 min
Delta R.T.: 0.001 min
Response: 10632532431
Conc: 706.28 ng/ml



#12 2,4,5-T

R.T.: 9.583 min
Delta R.T.: 0.003 min
Response: 13196246150
Conc: 721.18 ng/ml



#12 2,4,5-T

R.T.: 10.321 min
Delta R.T.: 0.002 min
Response: 9484715523
Conc: 704.82 ng/ml

Response_ Signal: PS031673.D\ECD1A.ch

#13 2,4-DB

R.T.: 10.157 min
Delta R.T.: 0.003 min
Response: 1701432711
Conc: 729.36 ng/ml

Instrument :
ECD_S
ClientSampleId :
ICVPS090925

Time

Response_ Signal: PS031673.D\ECD2B.ch

#13 2,4-DB

R.T.: 10.890 min
Delta R.T.: 0.003 min
Response: 714983126
Conc: 668.18 ng/ml

Time

Response_ Signal: PS031673.D\ECD1A.ch

#14 DINOSEB

R.T.: 11.354 min
Delta R.T.: 0.000 min
Response: 10373422307
Conc: 719.24 ng/ml

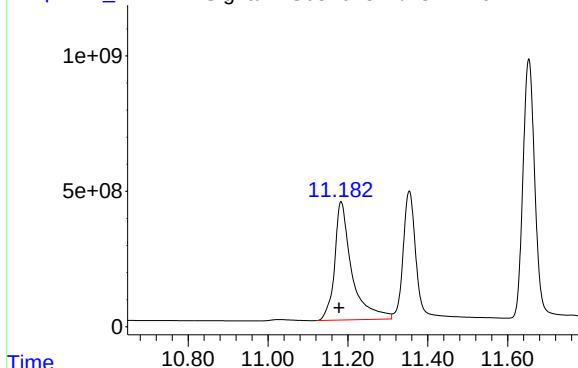
Time

Response_ Signal: PS031673.D\ECD2B.ch

#14 DINOSEB

R.T.: 11.265 min
Delta R.T.: 0.000 min
Response: 7109809400
Conc: 731.41 ng/ml

Time



R.T.: 11.183 min
Delta R.T.: 0.005 min
Response: 13055252453
Conc: 724.85 ng/ml

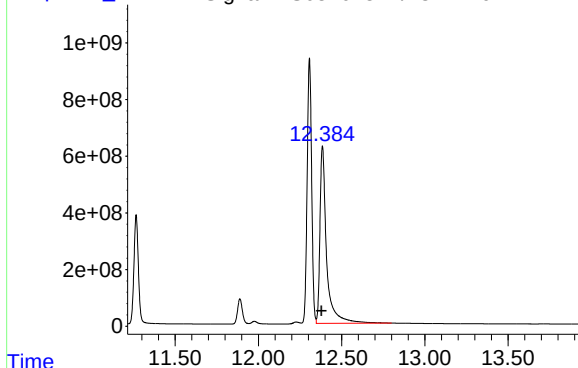
Instrument :
ECD_S
ClientSampleId :
ICVPS090925

Time

Response_

Signal: PS031673.D\ECD2B.ch

#15 Picloram



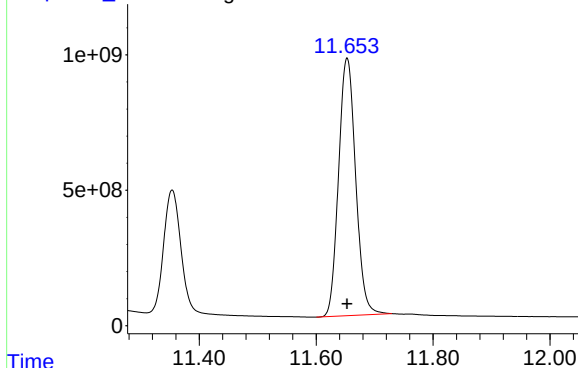
R.T.: 12.385 min
Delta R.T.: 0.005 min
Response: 17381740496
Conc: 733.93 ng/ml

Time

Response_

Signal: PS031673.D\ECD1A.ch

#16 DCPA



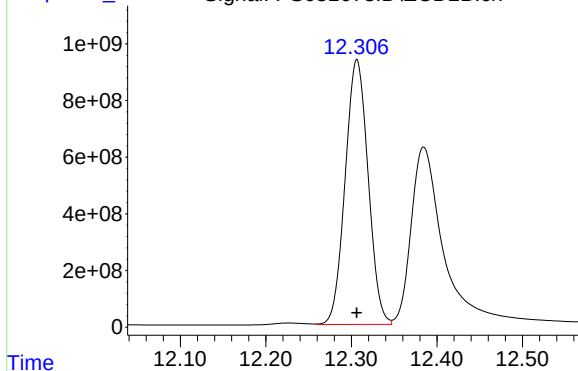
R.T.: 11.653 min
Delta R.T.: 0.000 min
Response: 19291682892
Conc: 715.84 ng/ml

Time

Response_

Signal: PS031673.D\ECD2B.ch

#16 DCPA



R.T.: 12.306 min
Delta R.T.: 0.000 min
Response: 17437428052
Conc: 723.42 ng/ml

Time



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

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q3015

Continuing Calib Date: 09/09/2025

Initial Calibration Date(s): 09/09/2025

09/09/2025

Continuing Calib Time: 14:21

Initial Calibration Time(s): 11:32

13:08

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.47	7.47	7.37	7.57	0.00
MCP	7.65	7.65	7.55	7.75	0.00
2,4-DCAA	7.29	7.29	7.19	7.39	0.00
Dalapon	2.67	2.67	2.57	2.77	0.00
MCPA	7.80	7.80	7.70	7.90	0.00
DICHLORPROP	8.18	8.18	8.08	8.28	0.00
2,4-D	8.42	8.41	8.31	8.51	0.00
2,4,5-TP(Silvex)	9.29	9.29	9.19	9.39	0.00
2,4,5-T	9.58	9.58	9.48	9.68	0.00
2,4-DB	10.16	10.16	10.06	10.26	0.00
Dinoseb	11.36	11.35	11.25	11.45	0.00
Pentachlorophenol	8.71	8.71	8.61	8.81	0.00
4-Nitrophenol	7.10	7.10	7.00	7.20	0.00
PICLORAM	11.19	11.18	11.08	11.28	-0.01
DCPA	11.65	11.65	11.55	11.75	0.00
3,5-DICHLOROBENZ	6.45	6.45	6.35	6.55	0.00



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q3015

Continuing Calib Date: 09/09/2025

Initial Calibration Date(s): 09/09/2025

09/09/2025

Continuing Calib Time: 14:21

Initial Calibration Time(s): 11:32

13:08

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
DICAMBA	7.94	7.94	7.84	8.04	0.00
MCP	8.04	8.04	7.94	8.14	0.00
2,4-DCAA	7.74	7.74	7.64	7.84	0.00
Dalapon	2.69	2.69	2.59	2.79	0.00
MCPA	8.28	8.28	8.18	8.38	0.00
DICHLORPROP	8.66	8.66	8.56	8.76	0.00
2,4-D	9.00	9.00	8.90	9.10	0.00
2,4,5-TP(Silvex)	9.89	9.89	9.79	9.99	0.00
2,4,5-T	10.32	10.32	10.22	10.42	0.00
2,4-DB	10.89	10.89	10.79	10.99	0.00
Dinoseb	11.27	11.27	11.17	11.37	0.00
Pentachlorophenol	9.51	9.51	9.41	9.61	0.00
4-Nitrophenol	7.29	7.29	7.19	7.39	0.00
PICLORAM	12.39	12.39	12.29	12.49	0.00
DCPA	12.31	12.31	12.21	12.41	0.00
3,5-DICHLOROBENZ	6.70	6.70	6.60	6.80	0.00



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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** ALLI03
Lab Code: ACE **SDG NO.:** Q3015
GC Column: RTX-CLP **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 09/09/2025 09/09/2025

Client Sample No.: CCAL01 **Date Analyzed:** 09/09/2025
Lab Sample No.: HSTDCCC750 **Data File :** PS031675.D **Time Analyzed:** 14:21

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.583	9.483	9.683	709.640	712.500	-0.4
2,4,5-TP(Silvex)	9.286	9.185	9.385	700.910	712.500	-1.6
2,4-D	8.415	8.314	8.514	673.870	705.000	-4.4
2,4-DB	10.159	10.058	10.258	699.830	712.500	-1.8
2,4-DCAA	7.286	7.185	7.385	743.530	750.000	-0.9
3,5-DICHLOROBENZOIC ACID	6.453	6.353	6.553	683.140	697.500	-2.1
4-Nitrophenol	7.097	6.995	7.195	716.620	682.500	5.0
Dalapon	2.670	2.569	2.769	665.380	682.500	-2.5
DCPA	11.654	11.554	11.754	710.430	720.000	-1.3
DICAMBA	7.469	7.369	7.569	703.960	705.000	-0.1
DICHLORPROP	8.178	8.077	8.277	683.240	705.000	-3.1
Dinoseb	11.355	11.254	11.454	729.410	705.000	3.5
MCPA	7.796	7.696	7.896	69.930	69.750	0.3
MCPP	7.647	7.547	7.747	73.010	70.500	3.6
Pentachlorophenol	8.708	8.608	8.808	751.190	712.500	5.4
PICLORAM	11.185	11.084	11.284	696.550	712.500	-2.2



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

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** ALLI03
Lab Code: ACE **SDG NO.:** Q3015
GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 09/09/2025 09/09/2025
Client Sample No.: CCAL01 **Date Analyzed:** 09/09/2025
Lab Sample No.: HSTDCCC750 **Data File :** PS031675.D **Time Analyzed:** 14:21

COMPOUND	RT	RT WINDOW		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
2,4,5-T	10.322	10.221	10.421	697.640	712.500	-2.1
2,4,5-TP(Silvex)	9.894	9.793	9.993	703.340	712.500	-1.3
2,4-D	9.001	8.900	9.100	683.870	705.000	-3.0
2,4-DB	10.891	10.790	10.990	656.790	712.500	-7.8
2,4-DCAA	7.743	7.643	7.843	724.200	750.000	-3.4
3,5-DICHLOROBENZOIC ACID	6.696	6.595	6.795	695.520	697.500	-0.3
4-Nitrophenol	7.294	7.191	7.391	669.640	682.500	-1.9
Dalapon	2.692	2.591	2.791	675.600	682.500	-1.0
DCPA	12.306	12.207	12.407	717.150	720.000	-0.4
DICAMBA	7.939	7.839	8.039	693.840	705.000	-1.6
DICHLORPROP	8.659	8.559	8.759	706.990	705.000	0.3
Dinoseb	11.266	11.166	11.366	747.350	705.000	6.0
MCPA	8.284	8.184	8.384	71.980	69.750	3.2
MCPP	8.036	7.936	8.136	76.050	70.500	7.9
Pentachlorophenol	9.509	9.409	9.609	727.250	712.500	2.1
PICLORAM	12.387	12.285	12.485	719.220	712.500	0.9

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090925\
Data File : PS031675.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2025 14:21
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 15:14:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090925.M
Quant Title : 8080.M
QLast Update : Tue Sep 09 13:56:38 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	7.286	7.743	2677.8E6	658.2E6	743.531	724.199
Target Compounds						
1) T Dalapon	2.670	2.692	3846.4E6	1903.6E6	665.381	675.603
2) T 3,5-DICHL...	6.453	6.696	3643.4E6	1060.6E6	683.141	695.516
3) T 4-Nitroph...	7.097	7.294	790.6E6	845.6E6	716.621	669.640
5) T DICAMBA	7.469	7.939	10979.5E6	4514.7E6	703.960	693.845
6) T MCPP	7.647	8.036	652.7E6	143.2E6	73.014	76.050
7) T MCPA	7.796	8.284	777.0E6	201.6E6	69.931	71.983
8) T DICHLORPROP	8.178	8.659	2433.5E6	1028.7E6	683.242	706.988
9) T 2,4-D	8.415	9.001	2308.4E6	1125.0E6	673.865	683.869
10) T Pentachlo...	8.708	9.509	39883.6E6	28864.8E6	751.191	727.245
11) T 2,4,5-TP ...	9.286	9.894	14700.6E6	10588.3E6	700.906	703.342
12) T 2,4,5-T	9.583	10.322	12985.1E6	9388.2E6	709.639	697.640
13) T 2,4-DB	10.159	10.891	1632.5E6	702.8E6	699.825	656.788
14) T DINOSEB	11.355	11.266	10520.1E6	7264.7E6	729.414	747.348
15) T Picloram	11.185	12.387	12545.5E6	17033.4E6	696.546	719.215
16) T DCPA	11.654	12.306	19146.0E6	17286.4E6	710.428	717.154

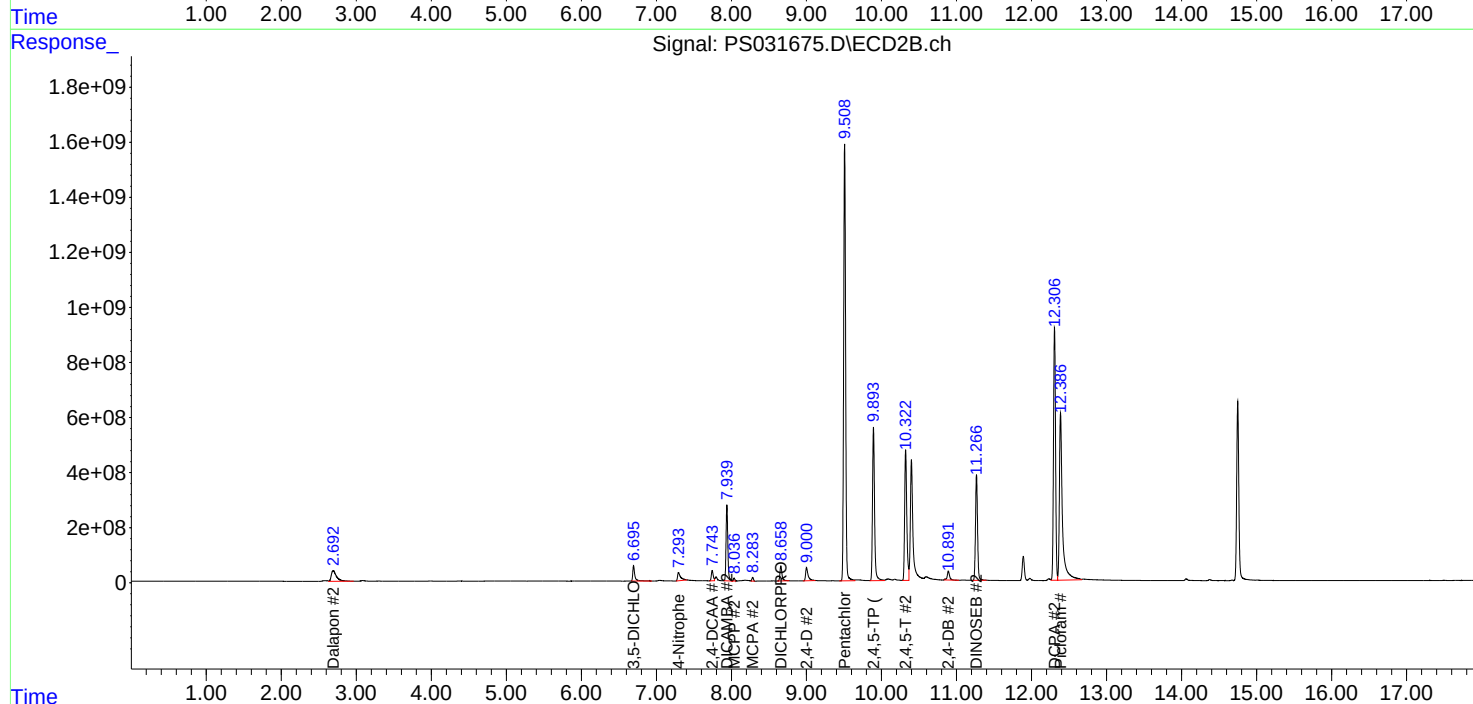
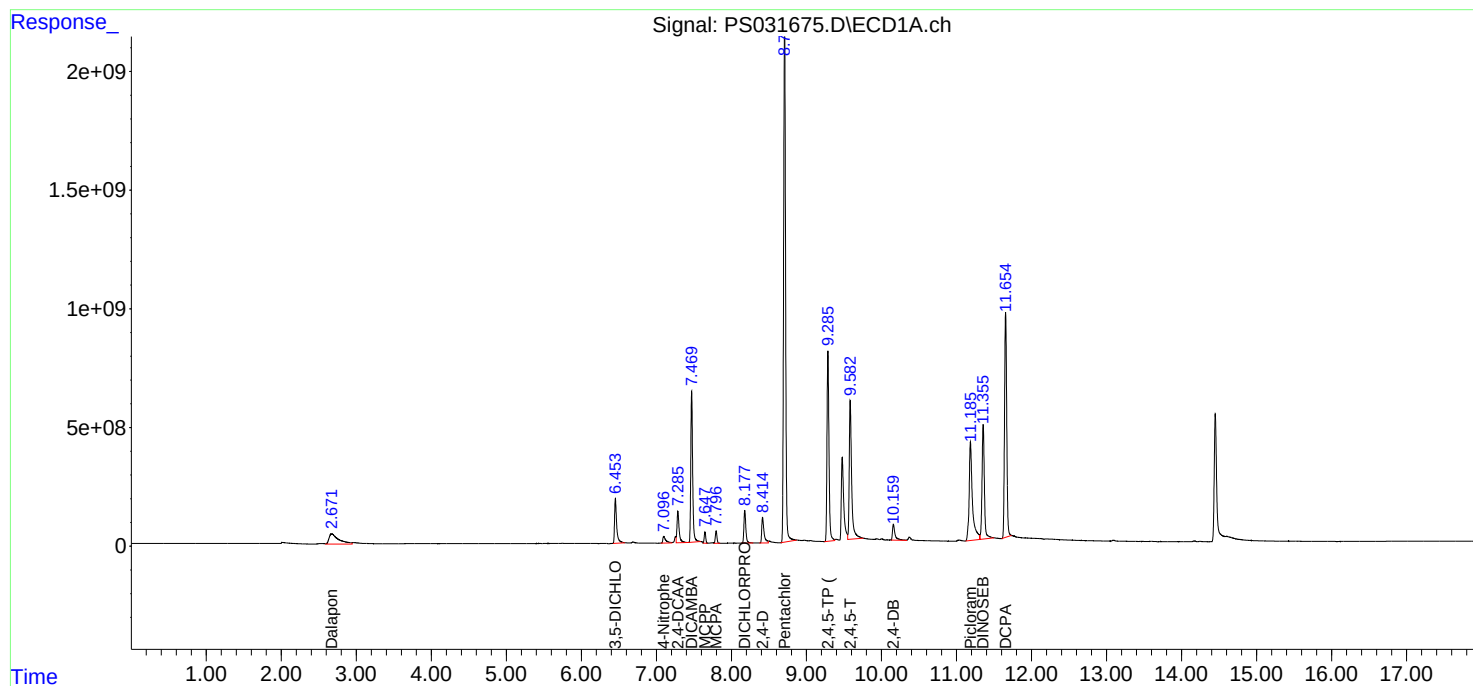
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

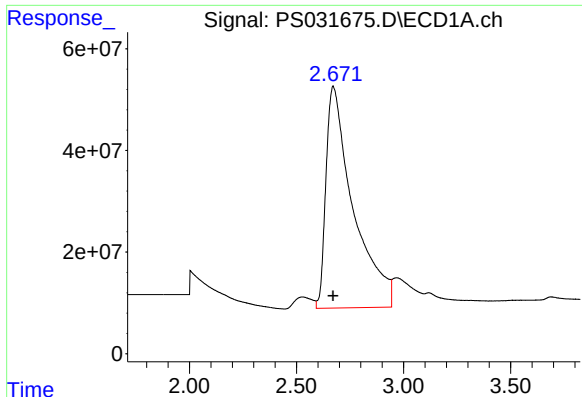
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090925\
Data File : PS031675.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2025 14:21
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 15:14:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090925.M
Quant Title : 8080.M
QLast Update : Tue Sep 09 13:56:38 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

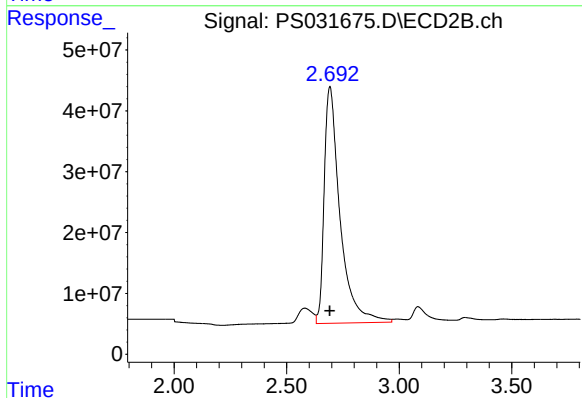




#1 Dalapon

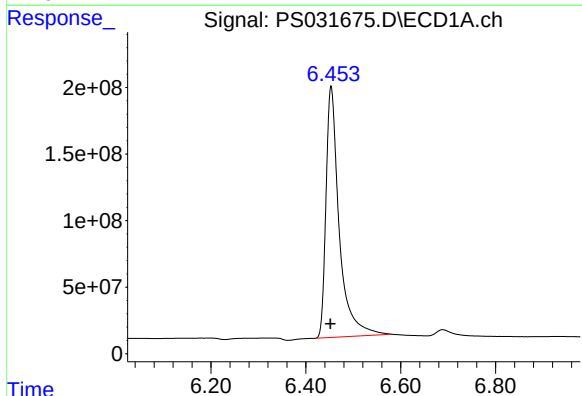
R.T.: 2.670 min
Delta R.T.: 0.000 min
Response: 3846398518
Conc: 665.38 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



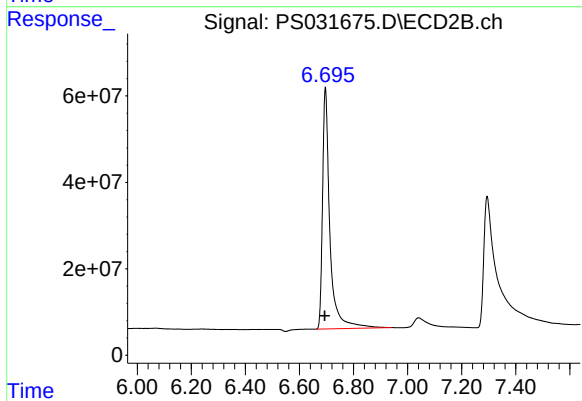
#1 Dalapon

R.T.: 2.692 min
Delta R.T.: 0.000 min
Response: 1903598124
Conc: 675.60 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.453 min
Delta R.T.: 0.002 min
Response: 3643435017
Conc: 683.14 ng/ml

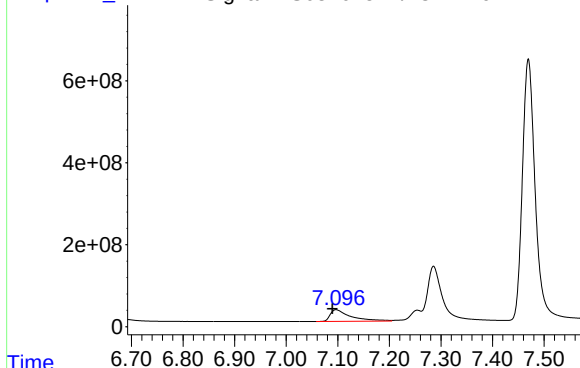


#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.696 min
Delta R.T.: 0.003 min
Response: 1060638295
Conc: 695.52 ng/ml

Response_ Signal: PS031675.D\ECD1A.ch

#3 4-Nitrophenol

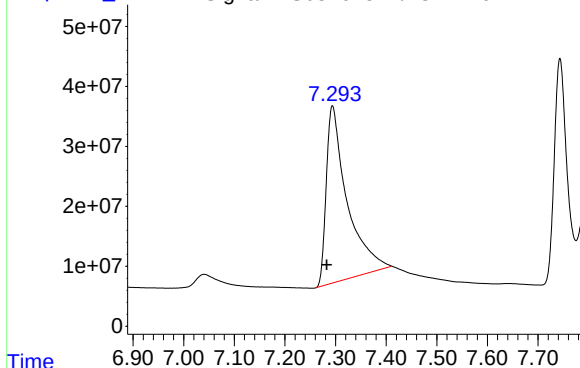


R.T.: 7.097 min
Delta R.T.: 0.007 min
Response: 790582559
Conc: 716.62 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Time Response_ Signal: PS031675.D\ECD2B.ch

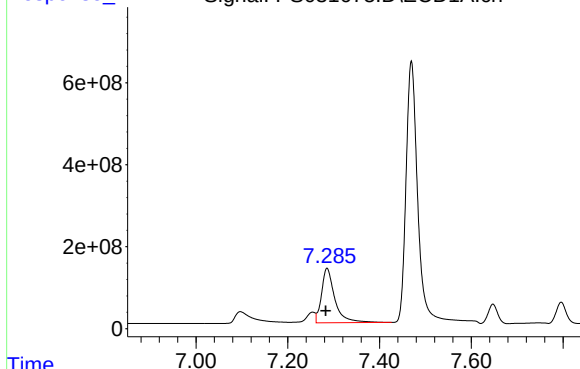
#3 4-Nitrophenol



R.T.: 7.294 min
Delta R.T.: 0.011 min
Response: 845611611
Conc: 669.64 ng/ml

Time Response_ Signal: PS031675.D\ECD1A.ch

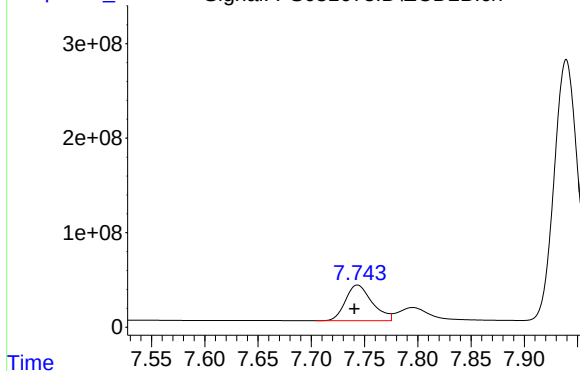
#4 2,4-DCAA



R.T.: 7.286 min
Delta R.T.: 0.002 min
Response: 2677847021
Conc: 743.53 ng/ml

Time Response_ Signal: PS031675.D\ECD2B.ch

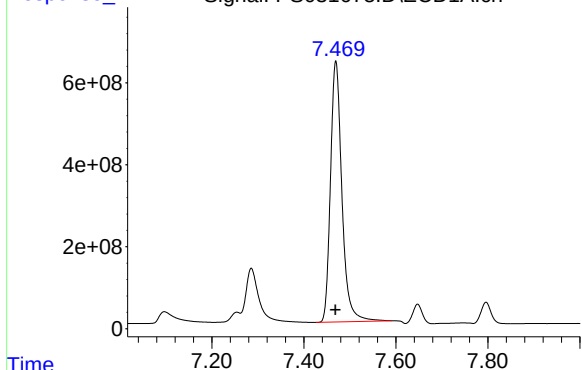
#4 2,4-DCAA



R.T.: 7.743 min
Delta R.T.: 0.003 min
Response: 658223689
Conc: 724.20 ng/ml

Signal: PS031675.D\ECD1A.ch

#5 DICAMBA

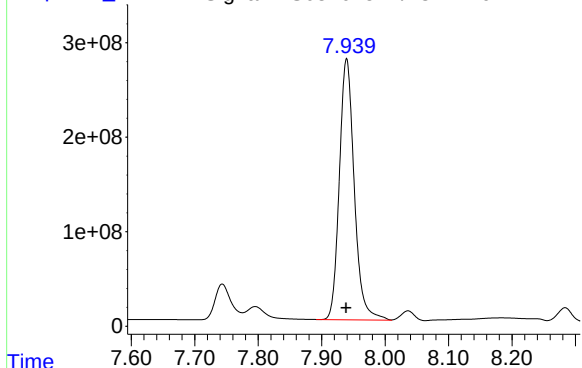


R.T.: 7.469 min
Delta R.T.: 0.000 min
Response: 10979461506
Conc: 703.96 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Signal: PS031675.D\ECD2B.ch

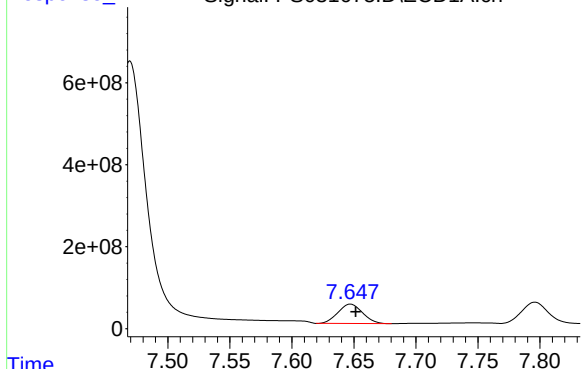
#5 DICAMBA



R.T.: 7.939 min
Delta R.T.: 0.000 min
Response: 4514742145
Conc: 693.84 ng/ml

Signal: PS031675.D\ECD1A.ch

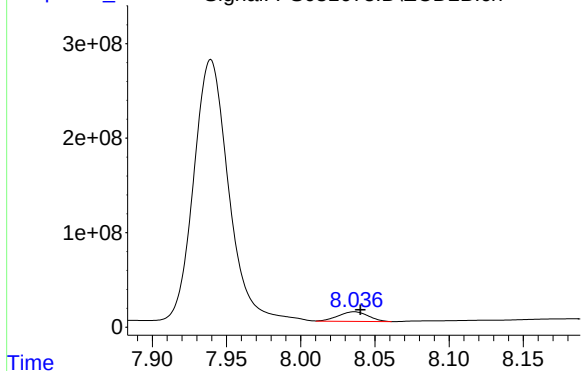
#6 MCPP



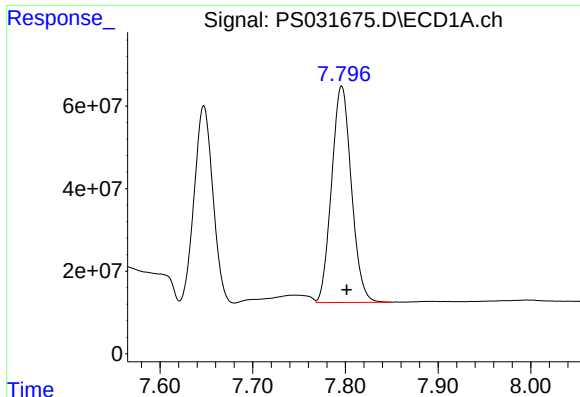
R.T.: 7.647 min
Delta R.T.: -0.004 min
Response: 652685908
Conc: 73.01 ug/ml

Signal: PS031675.D\ECD2B.ch

#6 MCPP



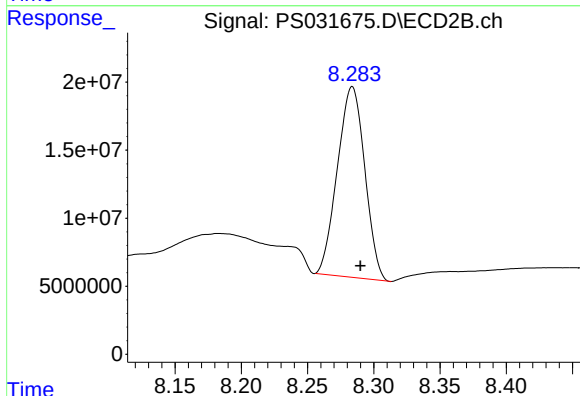
R.T.: 8.036 min
Delta R.T.: -0.004 min
Response: 143232929
Conc: 76.05 ug/ml



#7 MCPA

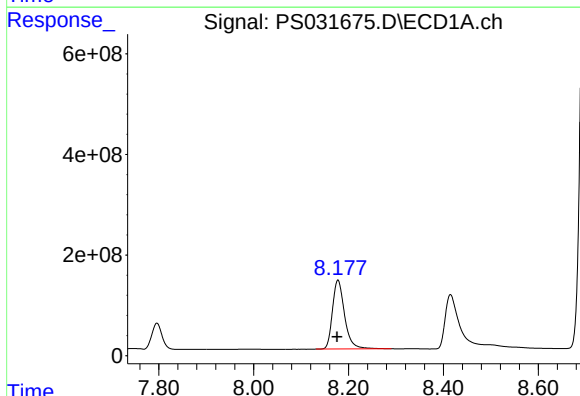
R.T.: 7.796 min
Delta R.T.: -0.006 min
Response: 776962095
Conc: 69.93 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



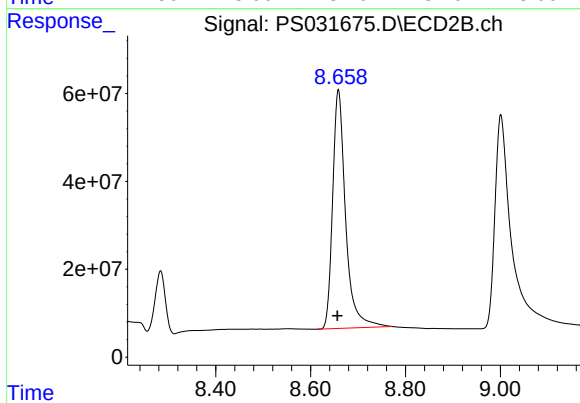
#7 MCPA

R.T.: 8.284 min
Delta R.T.: -0.006 min
Response: 201641477
Conc: 71.98 ug/ml



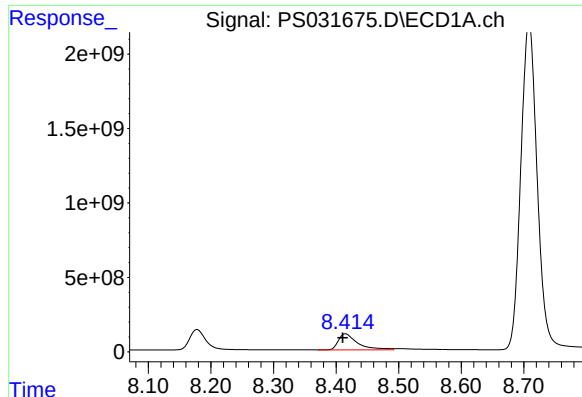
#8 DICHLORPROP

R.T.: 8.178 min
Delta R.T.: 0.001 min
Response: 2433546708
Conc: 683.24 ng/ml



#8 DICHLORPROP

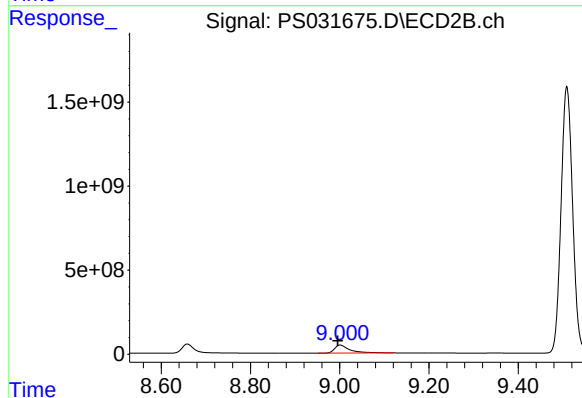
R.T.: 8.659 min
Delta R.T.: 0.002 min
Response: 1028710210
Conc: 706.99 ng/ml



#9 2,4-D

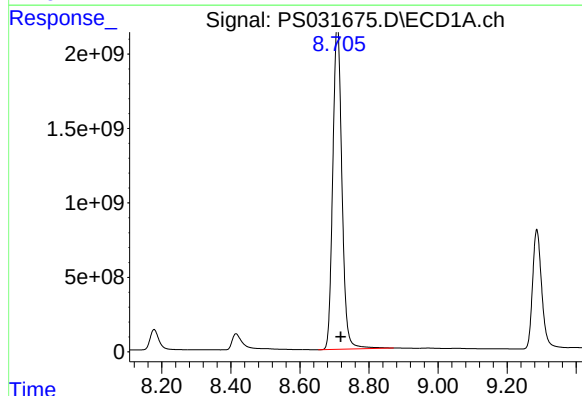
R.T.: 8.415 min
Delta R.T.: 0.004 min
Response: 2308420618
Conc: 673.87 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



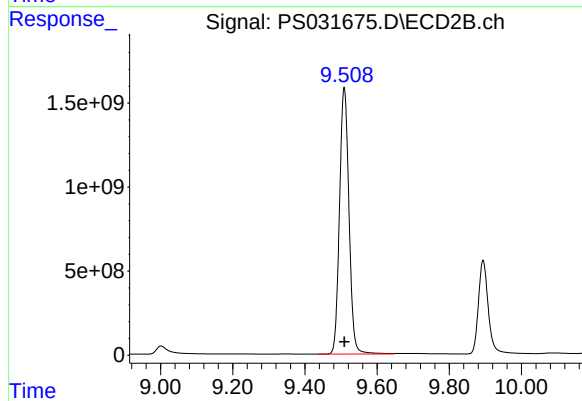
#9 2,4-D

R.T.: 9.001 min
Delta R.T.: 0.005 min
Response: 1125040334
Conc: 683.87 ng/ml



#10 Pentachlorophenol

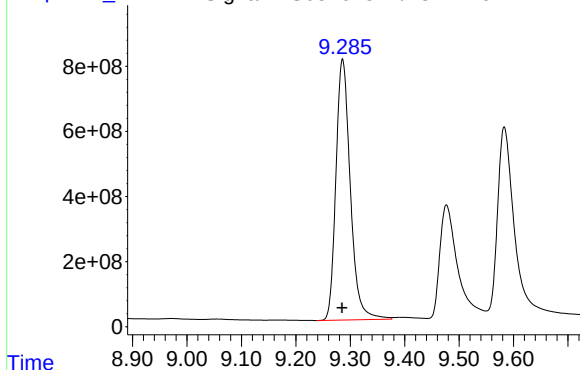
R.T.: 8.708 min
Delta R.T.: -0.010 min
Response: 39883606886
Conc: 751.19 ng/ml



#10 Pentachlorophenol

R.T.: 9.509 min
Delta R.T.: 0.000 min
Response: 28864755578
Conc: 727.25 ng/ml

Response_ Signal: PS031675.D\ECD1A.ch

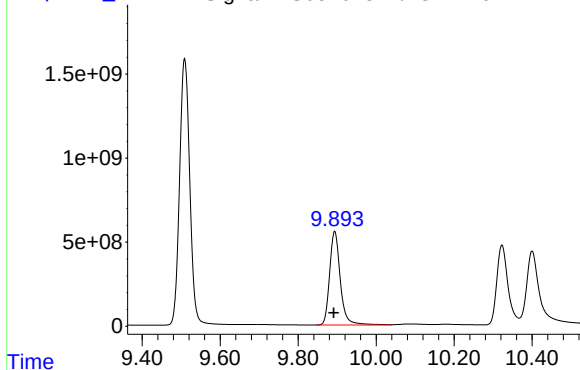


#11 2,4,5-TP (SILVEX)

R.T.: 9.286 min
Delta R.T.: 0.000 min
Response: 14700587012
Conc: 700.91 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

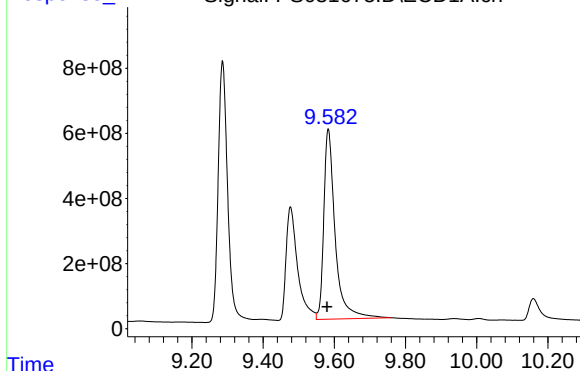
Time Response_ Signal: PS031675.D\ECD2B.ch



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

R.T.: 9.894 min
Delta R.T.: 0.002 min
Response: 10588336329
Conc: 703.34 ng/ml

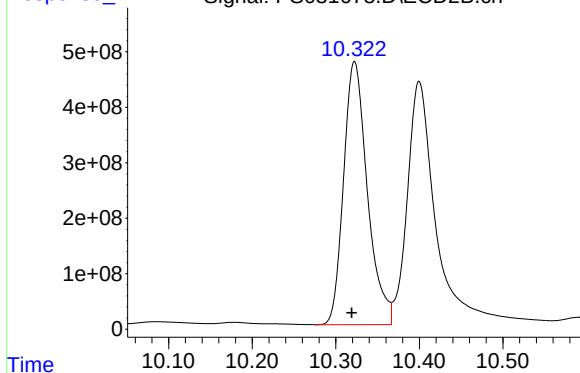
Time Response_ Signal: PS031675.D\ECD1A.ch



#12 2,4,5-T

R.T.: 9.583 min
Delta R.T.: 0.003 min
Response: 12985096153
Conc: 709.64 ng/ml

Time Response_ Signal: PS031675.D\ECD2B.ch

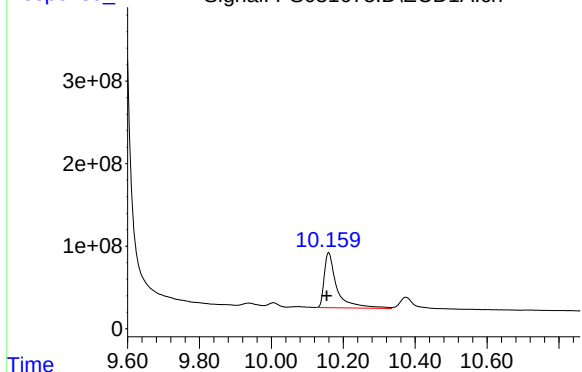


#12 2,4,5-T

R.T.: 10.322 min
Delta R.T.: 0.003 min
Response: 9388156234
Conc: 697.64 ng/ml

Response_ Signal: PS031675.D\ECD1A.ch

#13 2,4-DB

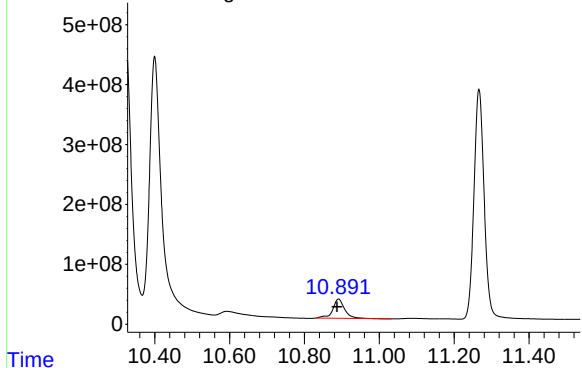


R.T.: 10.159 min
Delta R.T.: 0.005 min
Response: 1632528260
Conc: 699.83 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Time Response_ Signal: PS031675.D\ECD2B.ch

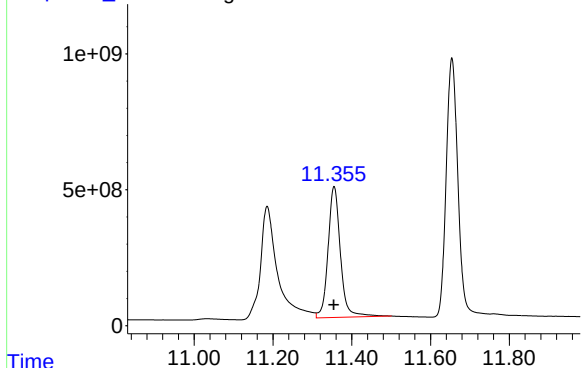
#13 2,4-DB



R.T.: 10.891 min
Delta R.T.: 0.004 min
Response: 702792289
Conc: 656.79 ng/ml

Time Response_ Signal: PS031675.D\ECD1A.ch

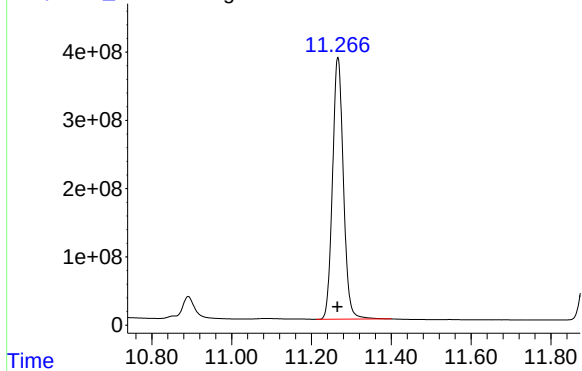
#14 DINOSEB



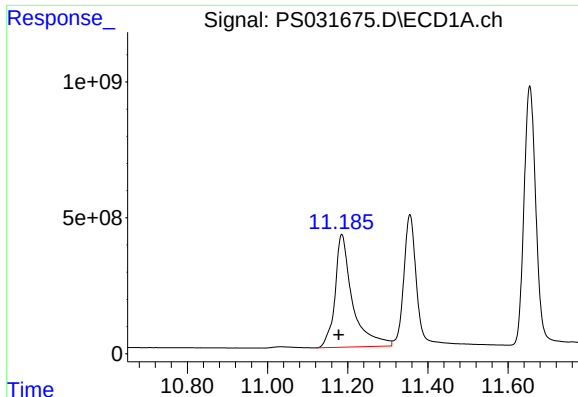
R.T.: 11.355 min
Delta R.T.: 0.000 min
Response: 10520118422
Conc: 729.41 ng/ml

Time Response_ Signal: PS031675.D\ECD2B.ch

#14 DINOSEB



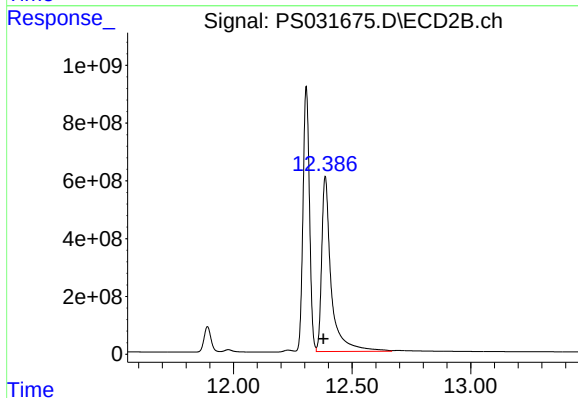
R.T.: 11.266 min
Delta R.T.: 0.000 min
Response: 7264732498
Conc: 747.35 ng/ml



#15 Picloram

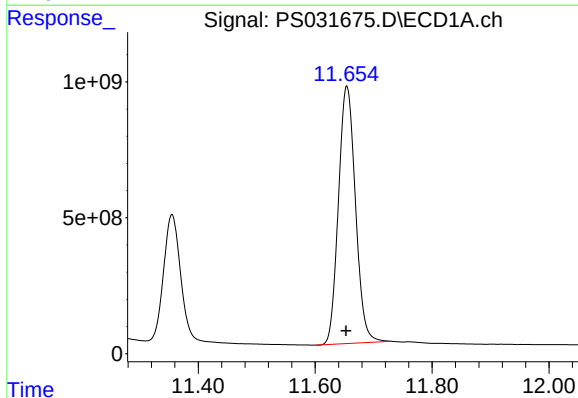
R.T.: 11.185 min
Delta R.T.: 0.007 min
Response: 12545543845
Conc: 696.55 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



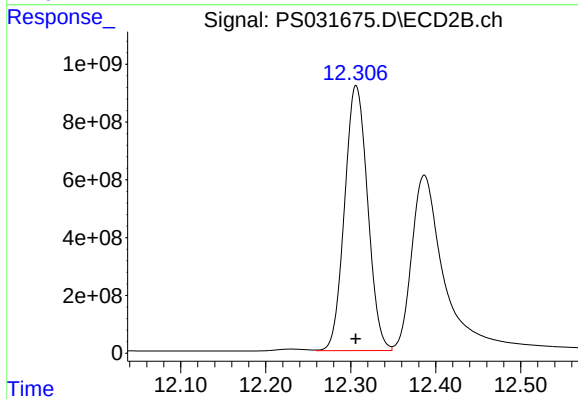
#15 Picloram

R.T.: 12.387 min
Delta R.T.: 0.007 min
Response: 17033357632
Conc: 719.22 ng/ml



#16 DCPA

R.T.: 11.654 min
Delta R.T.: 0.001 min
Response: 19145968650
Conc: 710.43 ng/ml



#16 DCPA

R.T.: 12.306 min
Delta R.T.: 0.000 min
Response: 17286363160
Conc: 717.15 ng/ml



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

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q3015

Continuing Calib Date: 09/09/2025

Initial Calibration Date(s): 09/09/2025

09/09/2025

Continuing Calib Time: 17:34

Initial Calibration Time(s): 11:32

13:08

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.47	7.47	7.37	7.57	0.00
MCP	7.65	7.65	7.55	7.75	0.00
2,4-DCAA	7.29	7.29	7.19	7.39	0.01
Dalapon	2.67	2.67	2.57	2.77	0.00
MCPA	7.80	7.80	7.70	7.90	0.00
DICHLORPROP	8.18	8.18	8.08	8.28	0.00
2,4-D	8.42	8.41	8.31	8.51	-0.01
2,4,5-TP(Silvex)	9.29	9.29	9.19	9.39	0.00
2,4,5-T	9.58	9.58	9.48	9.68	0.00
2,4-DB	10.16	10.16	10.06	10.26	0.00
Dinoseb	11.36	11.35	11.25	11.45	-0.01
Pentachlorophenol	8.71	8.71	8.61	8.81	0.00
4-Nitrophenol	7.10	7.10	7.00	7.20	0.00
PICLORAM	11.19	11.18	11.08	11.28	-0.01
DCPA	11.65	11.65	11.55	11.75	0.00
3,5-DICHLOROBENZ	6.45	6.45	6.35	6.55	0.00



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

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q3015

Continuing Calib Date: 09/09/2025

Initial Calibration Date(s): 09/09/2025

09/09/2025

Continuing Calib Time: 17:34

Initial Calibration Time(s): 11:32

13:08

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
DICAMBA	7.94	7.94	7.84	8.04	0.00
MCP	8.04	8.04	7.94	8.14	0.00
2,4-DCAA	7.74	7.74	7.64	7.84	0.00
Dalapon	2.69	2.69	2.59	2.79	0.00
MCPA	8.28	8.28	8.18	8.38	0.00
DICHLORPROP	8.66	8.66	8.56	8.76	0.00
2,4-D	9.00	9.00	8.90	9.10	0.00
2,4,5-TP(Silvex)	9.89	9.89	9.79	9.99	0.00
2,4,5-T	10.32	10.32	10.22	10.42	0.00
2,4-DB	10.89	10.89	10.79	10.99	0.00
Dinoseb	11.27	11.27	11.17	11.37	0.00
Pentachlorophenol	9.51	9.51	9.41	9.61	0.00
4-Nitrophenol	7.30	7.29	7.19	7.39	-0.01
PICLORAM	12.39	12.39	12.29	12.49	0.00
DCPA	12.31	12.31	12.21	12.41	0.00
3,5-DICHLOROBENZ	6.70	6.70	6.60	6.80	0.00



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

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** ALLI03
Lab Code: ACE **SDG NO.:** Q3015
GC Column: RTX-CLP **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 09/09/2025 09/09/2025

Client Sample No.: CCAL02 **Date Analyzed:** 09/09/2025
Lab Sample No.: HSTDCCC750 **Data File :** PS031683.D **Time Analyzed:** 17:34

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.584	9.483	9.683	728.820	712.500	2.3
2,4,5-TP(Silvex)	9.286	9.185	9.385	713.210	712.500	0.1
2,4-D	8.416	8.314	8.514	685.790	705.000	-2.7
2,4-DB	10.159	10.058	10.258	722.740	712.500	1.4
2,4-DCAA	7.285	7.185	7.385	756.390	750.000	0.9
3,5-DICHLOROBENZOIC ACID	6.454	6.353	6.553	691.760	697.500	-0.8
4-Nitrophenol	7.097	6.995	7.195	752.370	682.500	10.2
Dalapon	2.670	2.569	2.769	672.870	682.500	-1.4
DCPA	11.654	11.554	11.754	726.600	720.000	0.9
DICAMBA	7.470	7.369	7.569	711.750	705.000	1.0
DICHLORPROP	8.178	8.077	8.277	693.630	705.000	-1.6
Dinoseb	11.356	11.254	11.454	758.780	705.000	7.6
MCPA	7.797	7.696	7.896	71.360	69.750	2.3
MCPP	7.647	7.547	7.747	73.760	70.500	4.6
Pentachlorophenol	8.709	8.608	8.808	758.790	712.500	6.5
PICLORAM	11.186	11.084	11.284	720.280	712.500	1.1



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

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** ALLI03
Lab Code: ACE **SDG NO.:** Q3015
GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 09/09/2025 09/09/2025
Client Sample No.: CCAL02 **Date Analyzed:** 09/09/2025
Lab Sample No.: HSTDCCC750 **Data File :** PS031683.D **Time Analyzed:** 17:34

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.323	10.221	10.421	703.170	712.500	-1.3
2,4,5-TP(Silvex)	9.894	9.793	9.993	709.360	712.500	-0.4
2,4-D	9.002	8.900	9.100	686.600	705.000	-2.6
2,4-DB	10.891	10.790	10.990	673.830	712.500	-5.4
2,4-DCAA	7.744	7.643	7.843	727.340	750.000	-3.0
3,5-DICHLOROBENZOIC ACID	6.696	6.595	6.795	706.160	697.500	1.2
4-Nitrophenol	7.295	7.191	7.391	685.130	682.500	0.4
Dalapon	2.691	2.591	2.791	682.240	682.500	0.0
DCPA	12.307	12.207	12.407	727.520	720.000	1.0
DICAMBA	7.940	7.839	8.039	700.110	705.000	-0.7
DICHLORPROP	8.659	8.559	8.759	712.230	705.000	1.0
Dinoseb	11.267	11.166	11.366	779.110	705.000	10.5
MCPA	8.284	8.184	8.384	72.470	69.750	3.9
MCPP	8.036	7.936	8.136	76.270	70.500	8.2
Pentachlorophenol	9.509	9.409	9.609	735.530	712.500	3.2
PICLORAM	12.387	12.285	12.485	723.470	712.500	1.5

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090925\
 Data File : PS031683.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09 Sep 2025 17:34
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDCCC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Sep 10 01:40:05 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090925.M
 Quant Title : 8080.M
 QLast Update : Tue Sep 09 13:56:38 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	7.285	7.744	2724.2E6	661.1E6	756.391	727.344
Target Compounds						
1) T Dalapon	2.670	2.691	3889.7E6	1922.3E6	672.871	682.236
2) T 3,5-DICHL...	6.454	6.696	3689.4E6	1076.9E6	691.756	706.159
3) T 4-Nitroph...	7.097	7.295	830.0E6	865.2E6	752.371	685.128
5) T DICAMBA	7.470	7.940	11100.9E6	4555.5E6	711.746	700.115
6) T MCPP	7.647	8.036	659.4E6	143.6E6	73.764	76.271
7) T MCPA	7.797	8.284	792.8E6	203.0E6	71.356	72.475
8) T DICHLORPROP	8.178	8.659	2470.5E6	1036.3E6	693.628	712.229
9) T 2,4-D	8.416	9.002	2349.3E6	1129.5E6	685.787	686.595
10) T Pentachlo...	8.709	9.509	40287.1E6	29193.6E6	758.791	735.531
11) T 2,4,5-TP ...	9.286	9.894	14958.6E6	10679.0E6	713.206	709.362
12) T 2,4,5-T	9.584	10.323	13336.1E6	9462.6E6	728.821	703.175
13) T 2,4-DB	10.159	10.891	1686.0E6	721.0E6	722.744	673.833
14) T DINOSEB	11.356	11.267	10943.6E6	7573.5E6	758.779	779.113
15) T Picloram	11.186	12.387	12973.0E6	17134.0E6	720.277	723.465
16) T DCPA	11.654	12.307	19581.9E6	17536.3E6	726.603	727.523

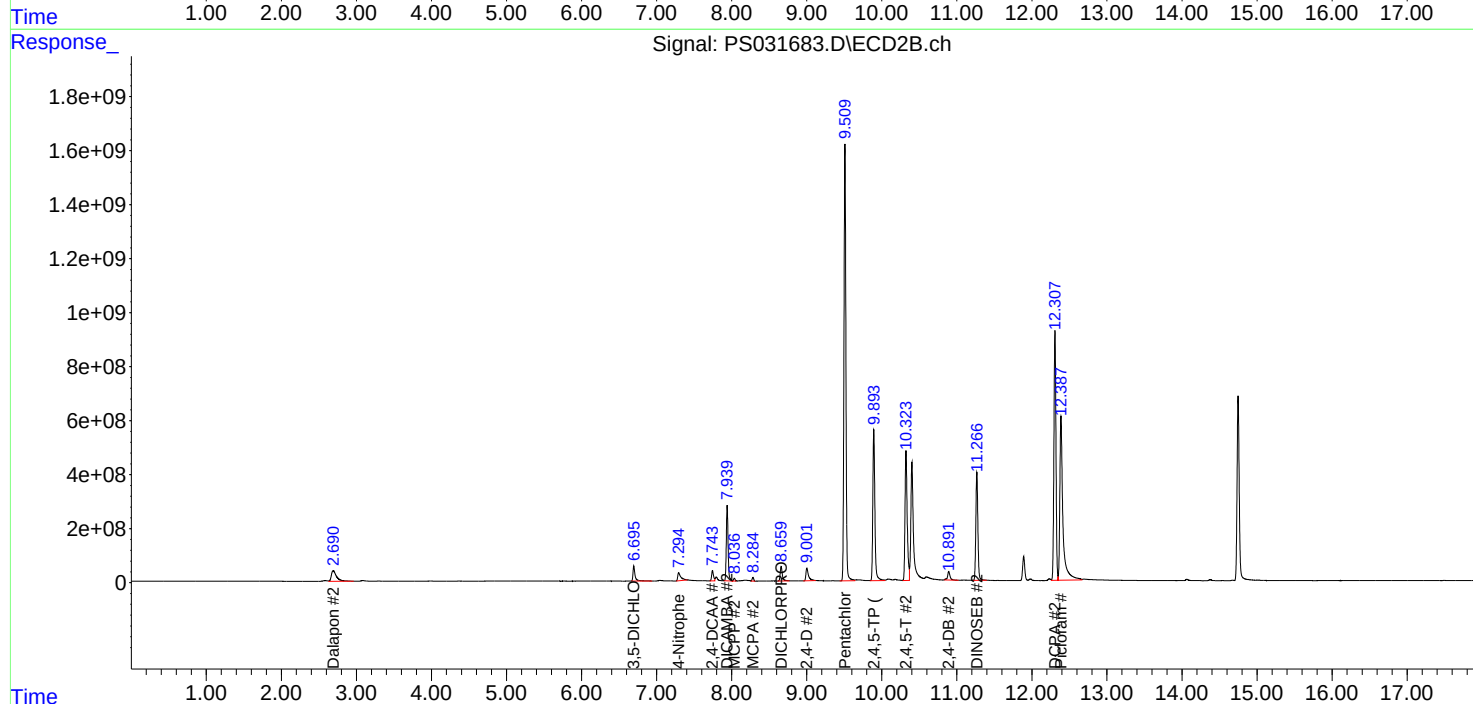
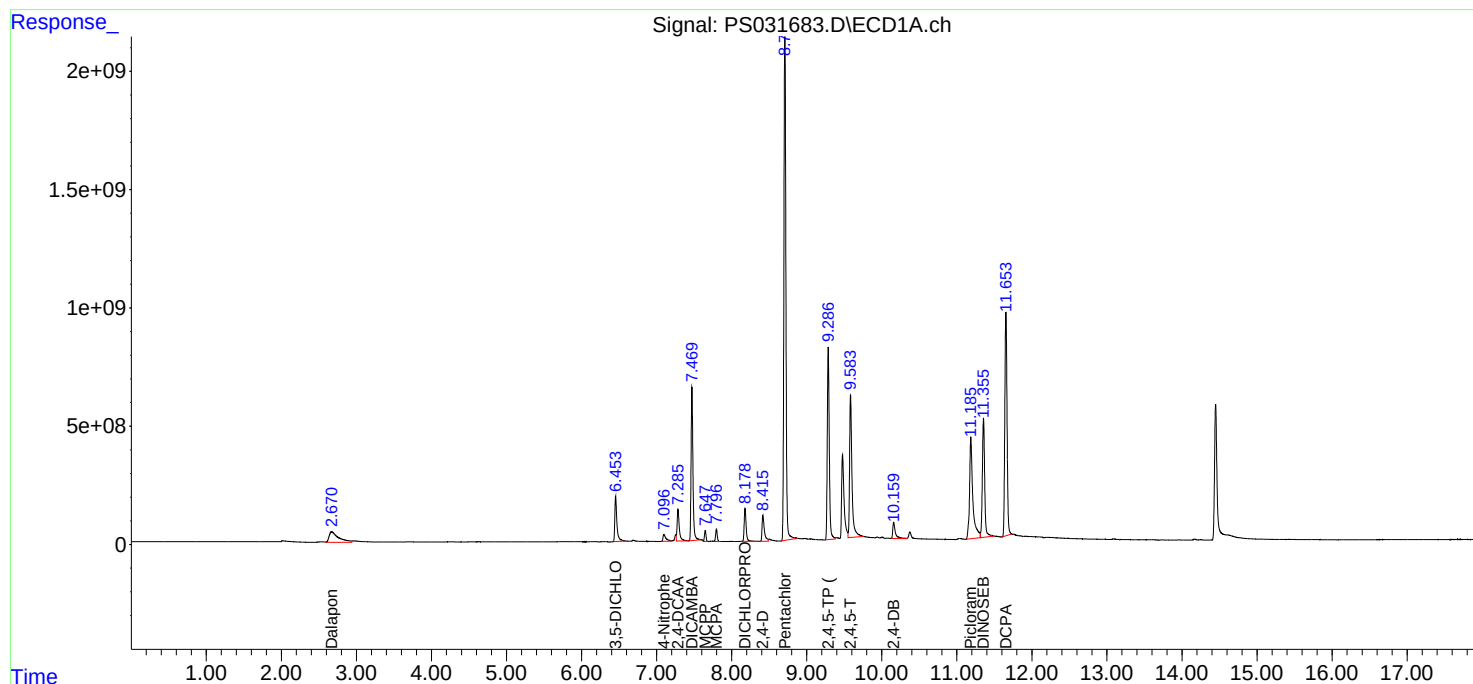
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

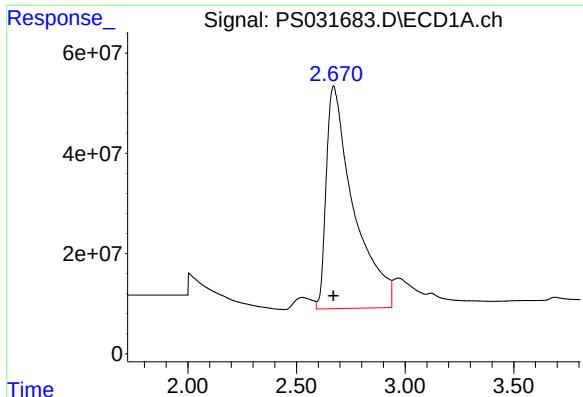
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090925\
Data File : PS031683.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2025 17:34
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 01:40:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090925.M
Quant Title : 8080.M
QLast Update : Tue Sep 09 13:56:38 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

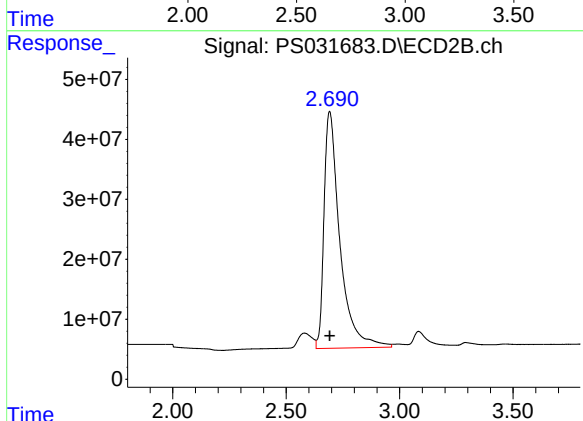




#1 Dalapon

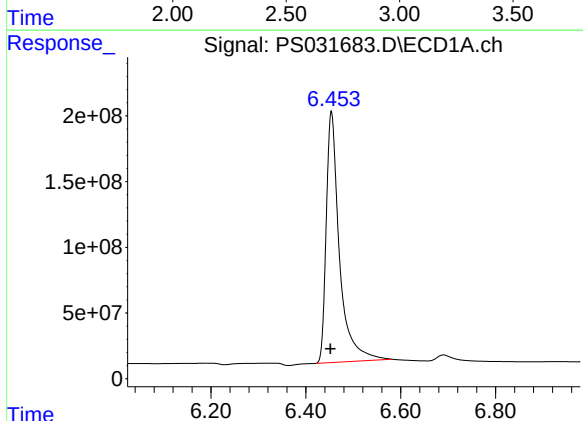
R.T.: 2.670 min
Delta R.T.: 0.000 min
Response: 3889696520
Conc: 672.87 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



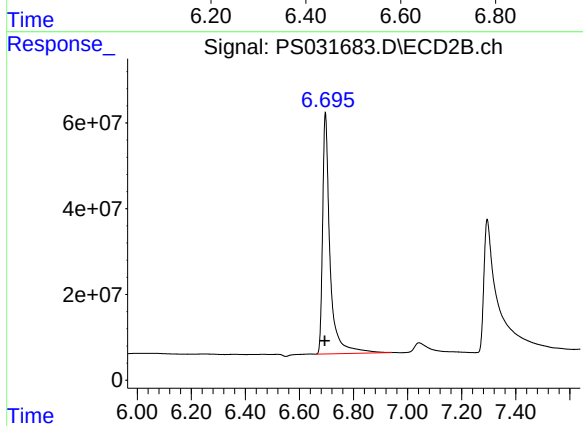
#1 Dalapon

R.T.: 2.691 min
Delta R.T.: 0.000 min
Response: 1922285519
Conc: 682.24 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.454 min
Delta R.T.: 0.002 min
Response: 3689383746
Conc: 691.76 ng/ml

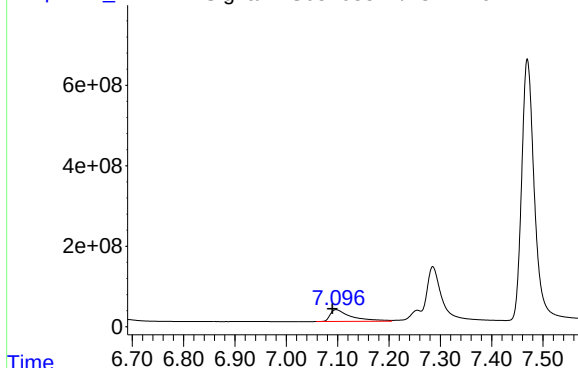


#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.696 min
Delta R.T.: 0.003 min
Response: 1076868750
Conc: 706.16 ng/ml

Signal: PS031683.D\ECD1A.ch

#3 4-Nitrophenol

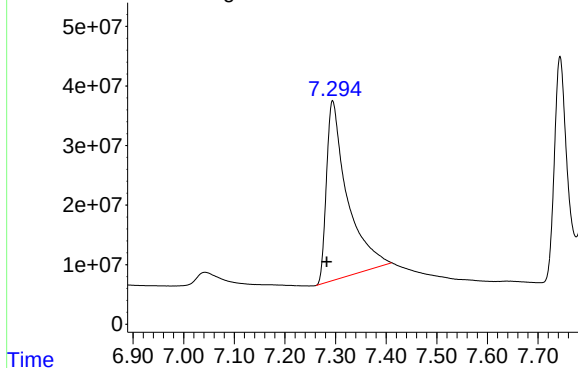


R.T.: 7.097 min
Delta R.T.: 0.007 min
Response: 830022023
Conc: 752.37 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Signal: PS031683.D\ECD2B.ch

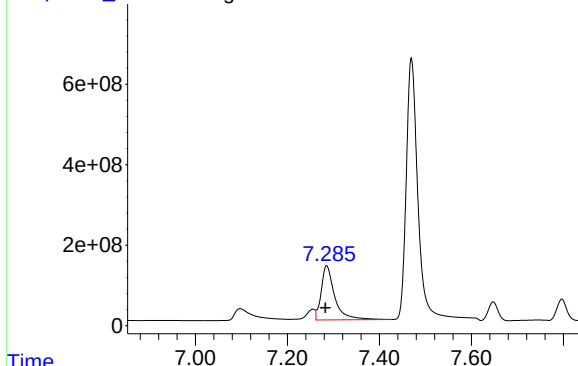
#3 4-Nitrophenol



R.T.: 7.295 min
Delta R.T.: 0.012 min
Response: 865170724
Conc: 685.13 ng/ml

Signal: PS031683.D\ECD1A.ch

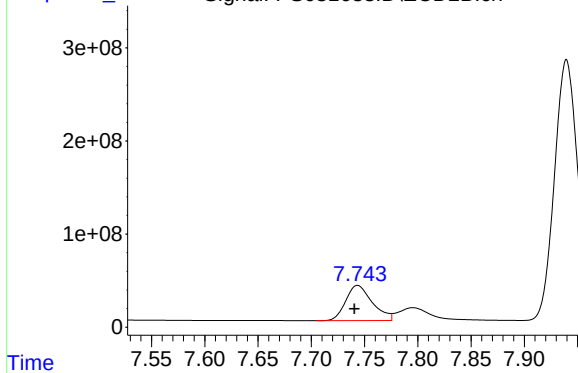
#4 2,4-DCAA



R.T.: 7.285 min
Delta R.T.: 0.002 min
Response: 2724163020
Conc: 756.39 ng/ml

Signal: PS031683.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.744 min
Delta R.T.: 0.003 min
Response: 661082302
Conc: 727.34 ng/ml

Response_ Signal: PS031683.D\ECD1A.ch

#5 DICAMBA

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 11100900732
Conc: 711.75 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Time

Response_ Signal: PS031683.D\ECD2B.ch

#5 DICAMBA

R.T.: 7.940 min
Delta R.T.: 0.000 min
Response: 4555540367
Conc: 700.11 ng/ml

Time

Response_ Signal: PS031683.D\ECD1A.ch

#6 MCP

R.T.: 7.647 min
Delta R.T.: -0.004 min
Response: 659390114
Conc: 73.76 ug/ml

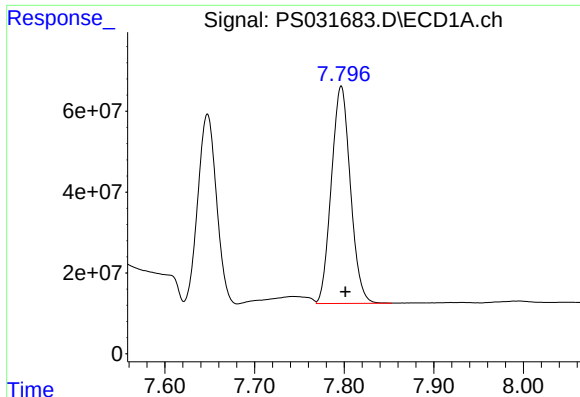
Time

Response_ Signal: PS031683.D\ECD2B.ch

#6 MCP

R.T.: 8.036 min
Delta R.T.: -0.004 min
Response: 143649303
Conc: 76.27 ug/ml

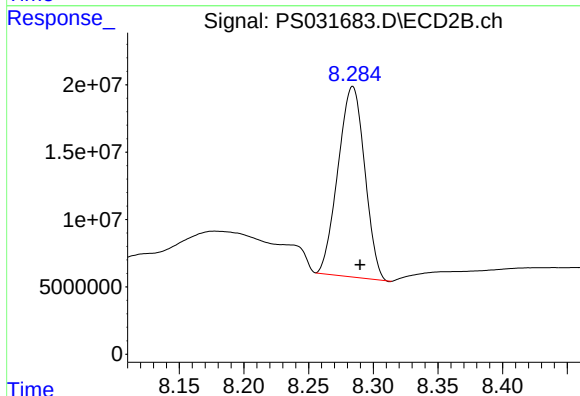
Time



#7 MCPA

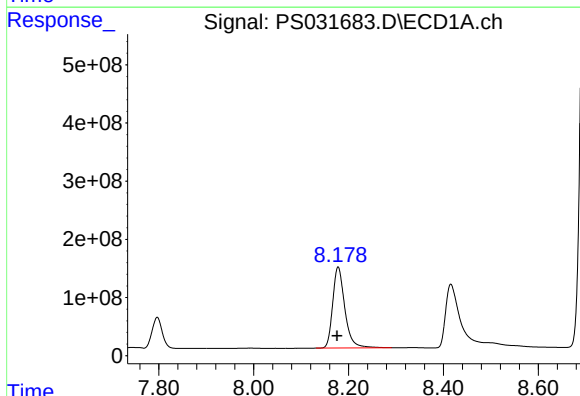
R.T.: 7.797 min
Delta R.T.: -0.005 min
Response: 792794753
Conc: 71.36 ug/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



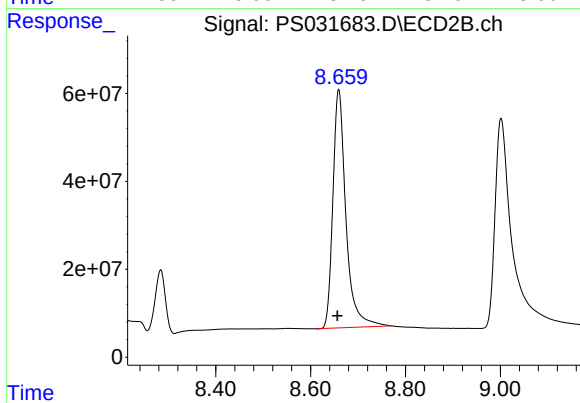
#7 MCPA

R.T.: 8.284 min
Delta R.T.: -0.006 min
Response: 203018192
Conc: 72.47 ug/ml



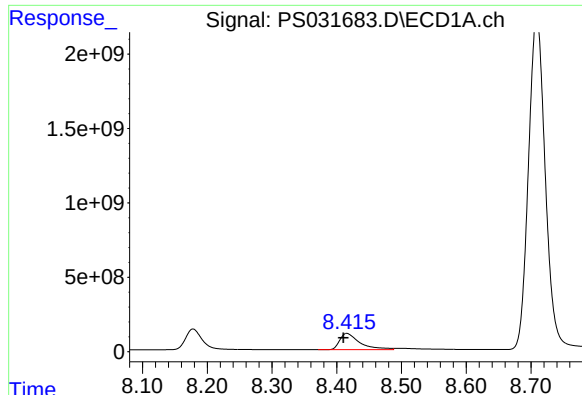
#8 DICHLORPROP

R.T.: 8.178 min
Delta R.T.: 0.002 min
Response: 2470536619
Conc: 693.63 ng/ml



#8 DICHLORPROP

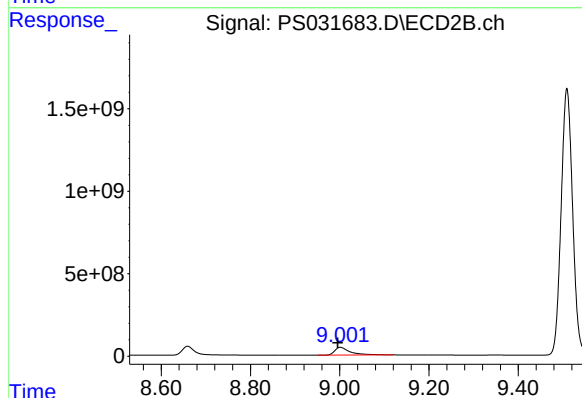
R.T.: 8.659 min
Delta R.T.: 0.003 min
Response: 1036336437
Conc: 712.23 ng/ml



#9 2,4-D

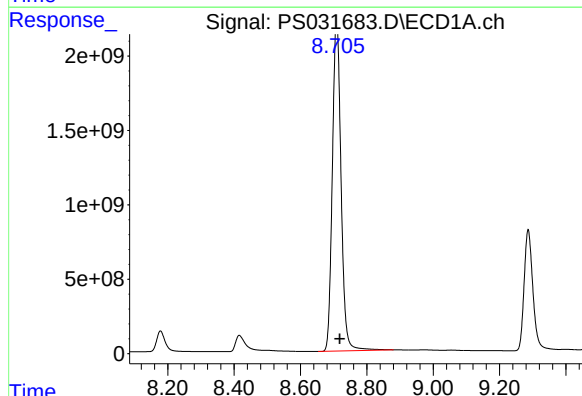
R.T.: 8.416 min
Delta R.T.: 0.005 min
Response: 2349258178
Conc: 685.79 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



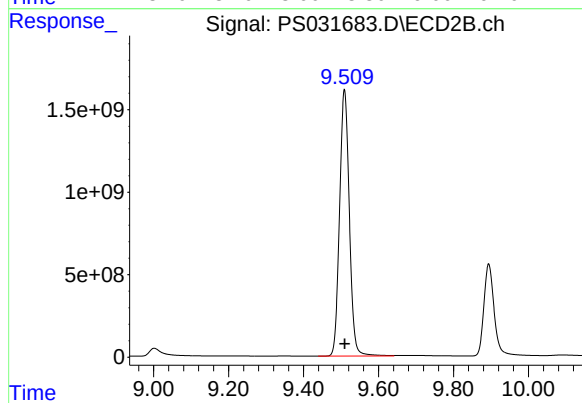
#9 2,4-D

R.T.: 9.002 min
Delta R.T.: 0.006 min
Response: 1129524949
Conc: 686.60 ng/ml



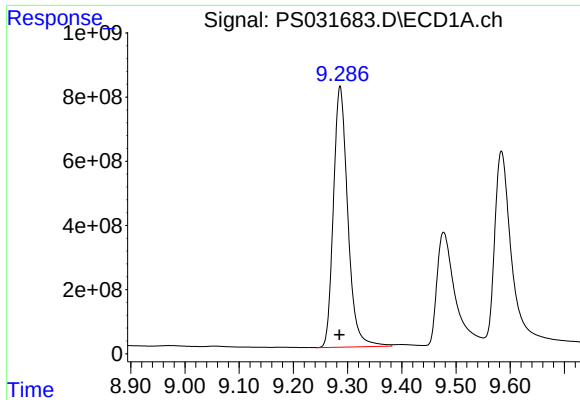
#10 Pentachlorophenol

R.T.: 8.709 min
Delta R.T.: -0.010 min
Response: 40287110915
Conc: 758.79 ng/ml



#10 Pentachlorophenol

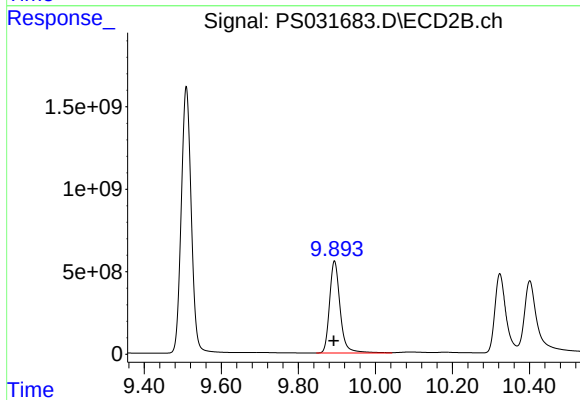
R.T.: 9.509 min
Delta R.T.: 0.000 min
Response: 29193621679
Conc: 735.53 ng/ml



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

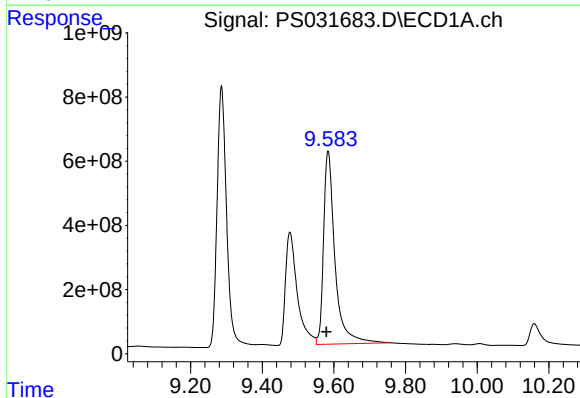
R.T.: 9.286 min
Delta R.T.: 0.001 min
Response: 14958552227
Conc: 713.21 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



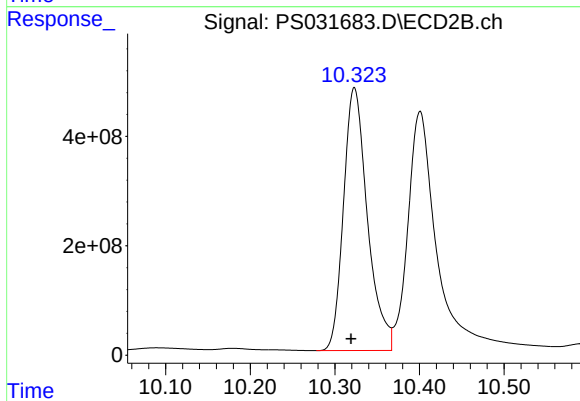
#11 2,4,5-TP (SILVEX)

R.T.: 9.894 min
Delta R.T.: 0.002 min
Response: 10678962470
Conc: 709.36 ng/ml



#12 2,4,5-T

R.T.: 9.584 min
Delta R.T.: 0.004 min
Response: 13336089209
Conc: 728.82 ng/ml



#12 2,4,5-T

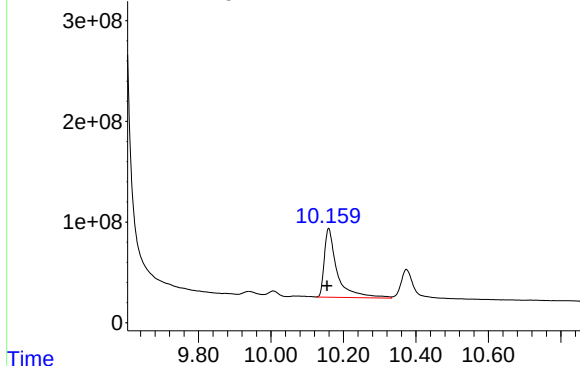
R.T.: 10.323 min
Delta R.T.: 0.004 min
Response: 9462631455
Conc: 703.17 ng/ml

Response_ Signal: PS031683.D\ECD1A.ch

#13 2,4-DB

R.T.: 10.159 min
Delta R.T.: 0.005 min
Response: 1685993165
Conc: 722.74 ng/ml

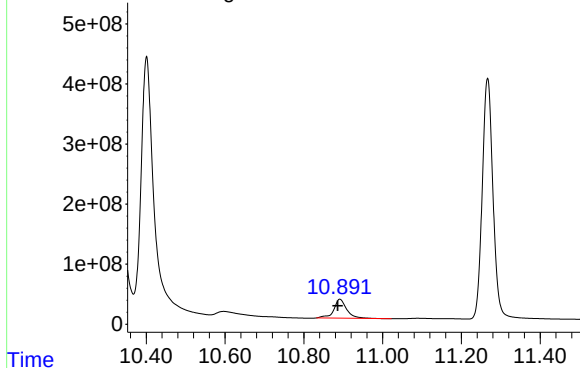
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



Time Response_ Signal: PS031683.D\ECD2B.ch

#13 2,4-DB

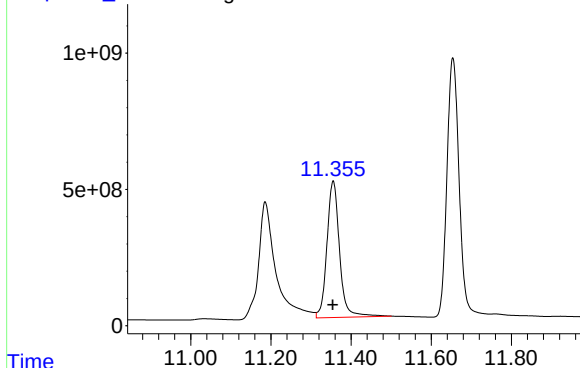
R.T.: 10.891 min
Delta R.T.: 0.005 min
Response: 721031873
Conc: 673.83 ng/ml



Time Response_ Signal: PS031683.D\ECD1A.ch

#14 DINOSEB

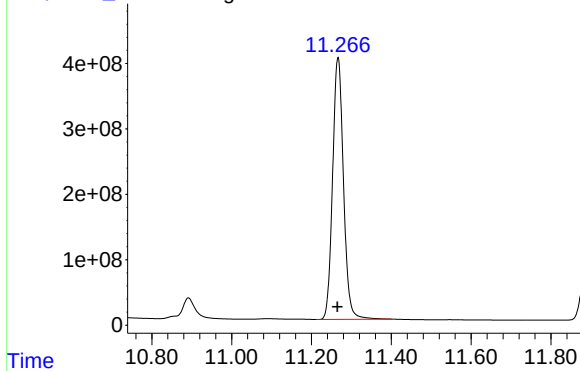
R.T.: 11.356 min
Delta R.T.: 0.001 min
Response: 10943637507
Conc: 758.78 ng/ml

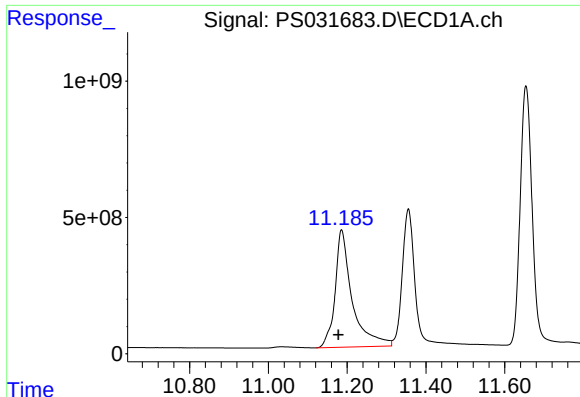


Time Response_ Signal: PS031683.D\ECD2B.ch

#14 DINOSEB

R.T.: 11.267 min
Delta R.T.: 0.001 min
Response: 7573504924
Conc: 779.11 ng/ml

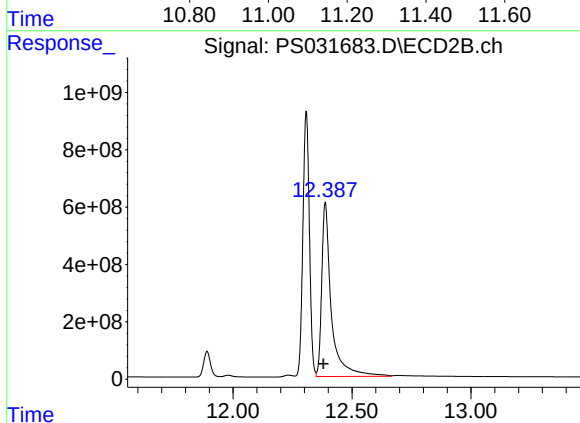




#15 Picloram

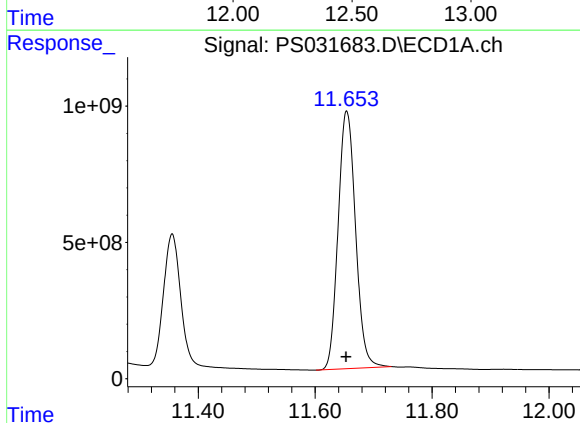
R.T.: 11.186 min
Delta R.T.: 0.008 min
Response: 12972962905
Conc: 720.28 ng/ml

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750



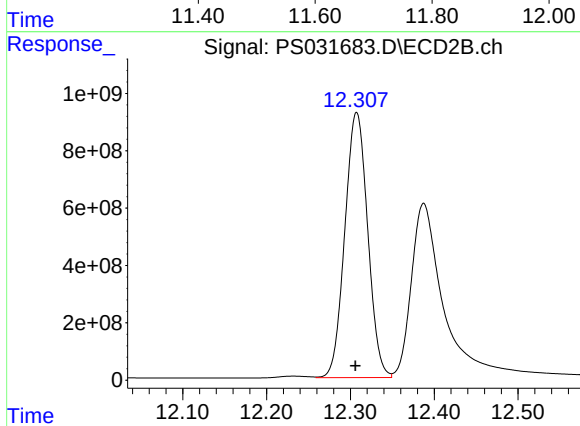
#15 Picloram

R.T.: 12.387 min
Delta R.T.: 0.008 min
Response: 17134003277
Conc: 723.47 ng/ml



#16 DCPA

R.T.: 11.654 min
Delta R.T.: 0.001 min
Response: 19581882219
Conc: 726.60 ng/ml



#16 DCPA

R.T.: 12.307 min
Delta R.T.: 0.001 min
Response: 17536293635
Conc: 727.52 ng/ml

Analytical Sequence

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q3015
Project:	NJ Waste Water PT	Instrument ID:	ECD_S
GC Column:	RTX-CLP	ID: 0.32 (mm)	Inst. Calib. Date(s): 09/09/2025 09/09/2025

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

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
IBLK	IBLK	09/09/2025	11:08	PS031667.D	7.29	0.00
HSTDICC200	HSTDICC200	09/09/2025	11:32	PS031668.D	7.29	0.00
HSTDICC500	HSTDICC500	09/09/2025	11:56	PS031669.D	7.29	0.00
HSTDICC750	HSTDICC750	09/09/2025	12:20	PS031670.D	7.29	0.00
HSTDICC1000	HSTDICC1000	09/09/2025	12:44	PS031671.D	7.29	0.00
HSTDICC1500	HSTDICC1500	09/09/2025	13:08	PS031672.D	7.28	0.00
IBLK	IBLK	09/09/2025	13:57	PS031674.D	7.29	0.00
HSTDCCC750	HSTDCCC750	09/09/2025	14:21	PS031675.D	7.29	0.00
PB169584BL	PB169584BL	09/09/2025	14:45	PS031676.D	7.29	0.00
WP0925-PT-HERB-WP	Q3015-17	09/09/2025	15:09	PS031677.D	7.29	0.00
PB169584BS	PB169584BS	09/09/2025	15:33	PS031678.D	7.29	0.00
PB169584BSD	PB169584BSD	09/09/2025	15:57	PS031679.D	7.29	0.00
IBLK	IBLK	09/09/2025	17:10	PS031682.D	7.29	0.00
HSTDCCC750	HSTDCCC750	09/09/2025	17:34	PS031683.D	7.29	0.00

Analytical Sequence

Client:	Alliance Technical Group, LLC - Newark	SDG No.:	Q3015
Project:	NJ Waste Water PT	Instrument ID:	ECD_S
GC Column:	RTX-CLP2	ID: 0.32 (mm)	Inst. Calib. Date(s): 09/09/2025 09/09/2025

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

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
LBLK	LBLK	09/09/2025	11:08	PS031667.D	7.75	0.00
HSTDICC200	HSTDICC200	09/09/2025	11:32	PS031668.D	7.75	0.00
HSTDICC500	HSTDICC500	09/09/2025	11:56	PS031669.D	7.74	0.00
HSTDICC750	HSTDICC750	09/09/2025	12:20	PS031670.D	7.74	0.00
HSTDICC1000	HSTDICC1000	09/09/2025	12:44	PS031671.D	7.74	0.00
HSTDICC1500	HSTDICC1500	09/09/2025	13:08	PS031672.D	7.74	0.00
LBLK	LBLK	09/09/2025	13:57	PS031674.D	7.75	0.00
HSTDCCC750	HSTDCCC750	09/09/2025	14:21	PS031675.D	7.74	0.00
PB169584BL	PB169584BL	09/09/2025	14:45	PS031676.D	7.74	0.00
WP0925-PT-HERB-WP	Q3015-17	09/09/2025	15:09	PS031677.D	7.74	0.00
PB169584BS	PB169584BS	09/09/2025	15:33	PS031678.D	7.75	0.00
PB169584BSD	PB169584BSD	09/09/2025	15:57	PS031679.D	7.75	0.00
LBLK	LBLK	09/09/2025	17:10	PS031682.D	7.75	0.00
HSTDCCC750	HSTDCCC750	09/09/2025	17:34	PS031683.D	7.74	0.00

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB169584BS

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q3015

Lab Sample ID: PB169584BS

Date(s) Analyzed: 09/09/2025 09/09/2025

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		CONCENTRATION	%RPD
			FROM	TO		
Dalapon	1	2.67	2.62	2.72	4.60	2.2
	2	2.69	2.64	2.74	4.70	
MCPA	1	7.80	7.75	7.85	0.46	3
	2	8.28	8.23	8.33	0.47	
DICHLORPROP	1	8.18	8.13	8.23	4.90	0
	2	8.66	8.61	8.71	4.90	
2,4-D	1	8.42	8.37	8.47	5.50	15.7
	2	9.01	8.96	9.06	4.70	
2,4,5-TP(Silvex)	1	9.29	9.24	9.34	5.00	2
	2	9.90	9.85	9.95	4.90	
2,4,5-T	1	9.59	9.54	9.64	4.90	4.2
	2	10.33	10.28	10.38	4.70	
2,4-DB	1	10.16	10.11	10.21	4.80	6.5
	2	10.89	10.84	10.94	4.50	
Dinoseb	1	11.36	11.31	11.41	5.20	1.9
	2	11.27	11.22	11.32	5.10	
Pentachlorophenol	1	8.71	8.66	8.76	5.30	5.8
	2	9.51	9.46	9.56	5.00	
4-Nitrophenol	1	7.10	7.05	7.15	5.10	24.2
	2	7.30	7.25	7.35	4.00	
PICLORAM	1	11.19	11.14	11.24	4.60	2.2
	2	12.39	12.34	12.44	4.50	
3,5-DICHLOROBENZOIC ACID	1	6.45	6.40	6.50	4.80	2.1
	2	6.70	6.65	6.75	4.90	
DICAMBA	1	7.47	7.42	7.52	4.90	4.2
	2	7.94	7.89	7.99	4.70	
MCPP	1	7.65	7.60	7.70	0.45	8.1
	2	8.04	7.99	8.09	0.49	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB169584BS

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q3015

Lab Sample ID: PB169584BS

Date(s) Analyzed: 09/09/2025 09/09/2025

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		CONCENTRATION	%RPD
			FROM	TO		
DCPA	1	11.65	11.60	11.70	5.10	0
	2	12.31	12.26	12.36	5.10	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB169584BSD

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q3015

Lab Sample ID: PB169584BSD

Date(s) Analyzed: 09/09/2025 09/09/2025

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		CONCENTRATION	%RPD
			FROM	TO		
MCPA	1	7.80	7.75	7.85	0.46	3.1
	2	8.28	8.23	8.33	0.47	
DICHLORPROP	1	8.18	8.13	8.23	4.90	0
	2	8.66	8.61	8.71	4.90	
2,4-D	1	8.42	8.37	8.47	4.80	2.1
	2	9.01	8.96	9.06	4.70	
2,4,5-TP(Silvex)	1	9.29	9.24	9.34	5.00	2
	2	9.90	9.85	9.95	4.90	
2,4,5-T	1	9.59	9.54	9.64	4.90	4.2
	2	10.33	10.28	10.38	4.70	
2,4-DB	1	10.16	10.11	10.21	4.80	6.5
	2	10.89	10.84	10.94	4.50	
Dinoseb	1	11.36	11.31	11.41	5.20	0
	2	11.27	11.22	11.32	5.20	
Pentachlorophenol	1	8.71	8.66	8.76	5.30	5.8
	2	9.51	9.46	9.56	5.00	
4-Nitrophenol	1	7.10	7.05	7.15	5.00	22.2
	2	7.30	7.25	7.35	4.00	
PICLORAM	1	11.19	11.14	11.24	4.70	0
	2	12.39	12.34	12.44	4.70	
3,5-DICHLOROBENZOIC ACID	1	6.45	6.40	6.50	4.80	2.1
	2	6.70	6.65	6.75	4.90	
DICAMBA	1	7.47	7.42	7.52	4.90	4.2
	2	7.94	7.89	7.99	4.70	
MCPD	1	7.65	7.60	7.70	0.46	6.5
	2	8.04	7.99	8.09	0.49	
DCPA	1	11.65	11.60	11.70	5.10	2
	2	12.31	12.26	12.36	5.00	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB169584BSD

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q3015

Lab Sample ID: PB169584BSD

Date(s) Analyzed: 09/09/2025 09/09/2025

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		CONCENTRATION	%RPD
			FROM	TO		
Dalapon	1	2.67	2.62	2.72	4.70	0
	2	2.69	2.64	2.74	4.70	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WP0925-PT-HERB-WP

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q3015

Lab Sample ID: Q3015-17

Date(s) Analyzed: 09/09/2025 09/09/2025

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		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-TP(Silvex)	1	9.29	9.24	9.34	6.80	2.9
	2	9.89	9.84	9.94	7.00	
2,4,5-T	1	9.58	9.53	9.63	6.90	4.3
	2	10.32	10.27	10.37	7.20	
Dalapon	1	2.67	2.62	2.72	6.60	60.3
	2	2.69	2.64	2.74	12.3	
DICHLORPROP	1	8.18	8.13	8.23	4.40	7.1
	2	8.66	8.61	8.71	4.10	
2,4-D	1	8.41	8.36	8.46	6.40	3.2
	2	9.00	8.95	9.05	6.20	
2,4-DB	1	10.16	10.11	10.21	2.70	3.8
	2	10.89	10.84	10.94	2.60	
Dinoseb	1	11.36	11.31	11.41	2.40	13.3
	2	11.27	11.22	11.32	2.10	
Pentachlorophenol	1	8.71	8.66	8.76	5.80	9
	2	9.51	9.46	9.56	5.30	
4-Nitrophenol	1	7.09	7.04	7.14	7.30	1.4
	2	7.29	7.24	7.34	7.20	
PICLORAM	1	11.19	11.14	11.24	3.40	6.1
	2	12.39	12.34	12.44	3.20	
3,5-DICHLOROBENZOIC ACID	1	6.46	6.41	6.51	2.40	8
	2	6.70	6.65	6.75	2.60	
DICAMBA	1	7.47	7.42	7.52	6.80	5.7
	2	7.94	7.89	7.99	7.20	
DCPA	1	11.65	11.60	11.70	3.60	30.6
	2	12.31	12.26	12.36	4.90	



QC SAMPLE DATA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB169584BL	SDG No.:	Q3015
Lab Sample ID:	PB169584BL	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031676.D	1	09/05/25 09:20	09/09/25 14:45	PB169584

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
93-65-2	MCPP	0.079	U	0.079	0.20	ug/L
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
75-99-0	DALAPON	0.98	U	0.98	2.00	ug/L
94-74-6	MCPA	0.10	U	0.10	0.20	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
87-86-5	Pentachlorophenol	0.70	U	0.70	2.00	ug/L
100-02-7	4-Nitrophenol	0.83	U	0.83	2.00	ug/L
1918-02-1	PICLORAM	0.63	U	0.63	2.00	ug/L
1861-32-1	DCPA	0.82	U	0.82	2.00	ug/L
51-36-5	3,5-DICHLOROBENZOIC AC	0.70	U	0.70	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	510		61 - 136	102%	SPK: 500

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB169584BL	SDG No.:	Q3015
Lab Sample ID:	PB169584BL	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031676.D	1	09/05/25 09:20	09/09/25 14:45	PB169584

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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\PS090925\
Data File : PS031676.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2025 14:45
Operator : AR\AJ
Sample : PB169584BL
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB169584BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 01:38:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090925.M
Quant Title : 8080.M
QLast Update : Tue Sep 09 13:56:38 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	7.286	7.744	1597.1E6	463.9E6	443.438	510.415

Target Compounds

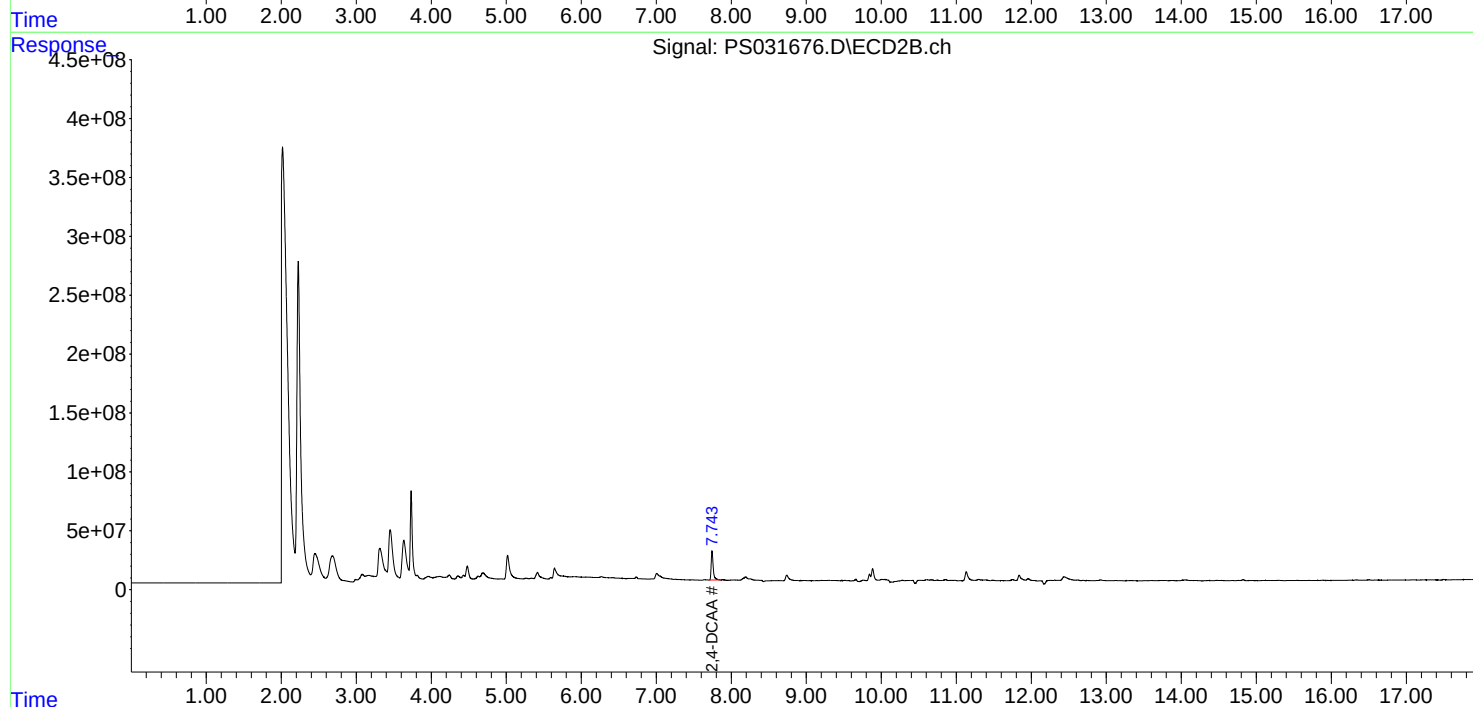
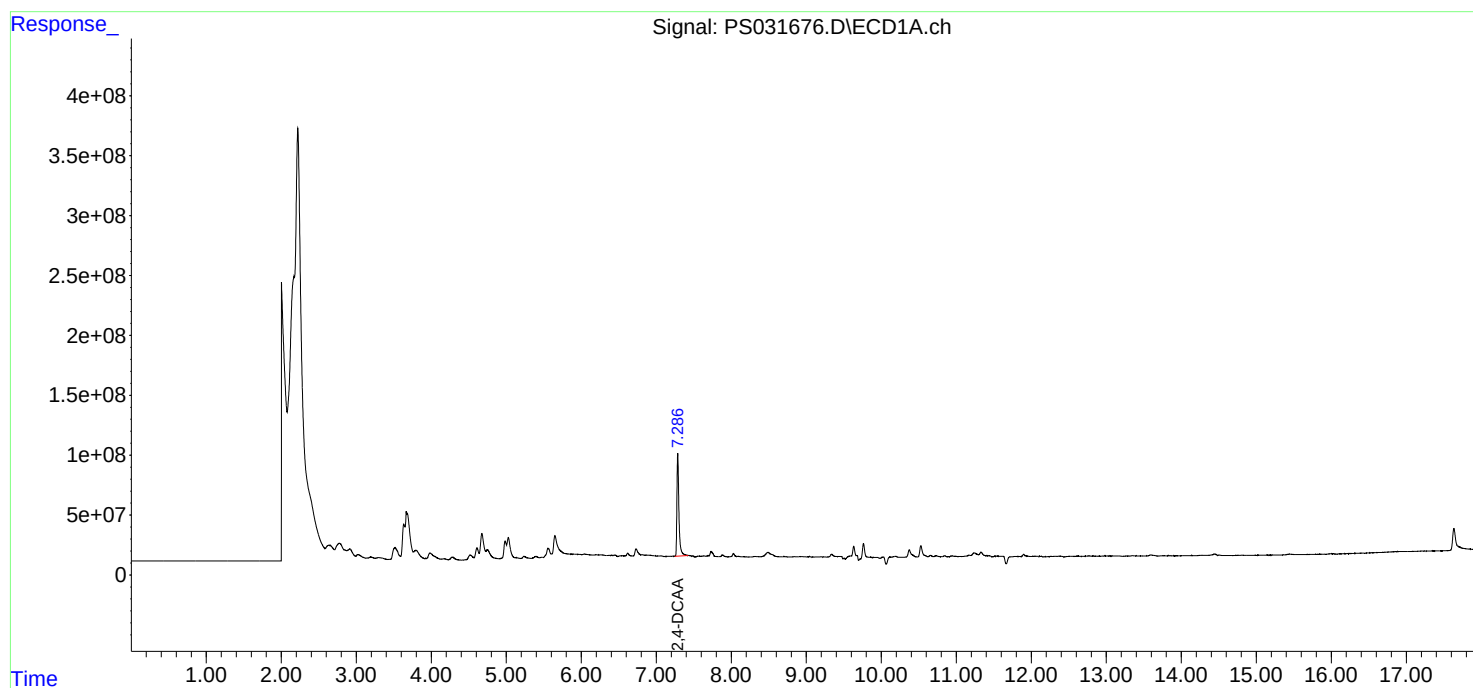
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

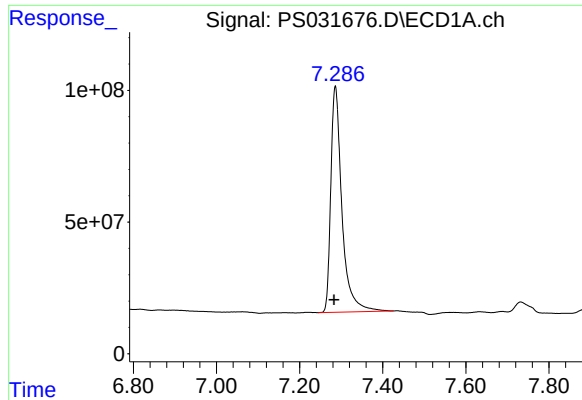
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090925\
Data File : PS031676.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2025 14:45
Operator : AR\AJ
Sample : PB169584BL
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB169584BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 01:38:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090925.M
Quant Title : 8080.M
QLast Update : Tue Sep 09 13:56:38 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

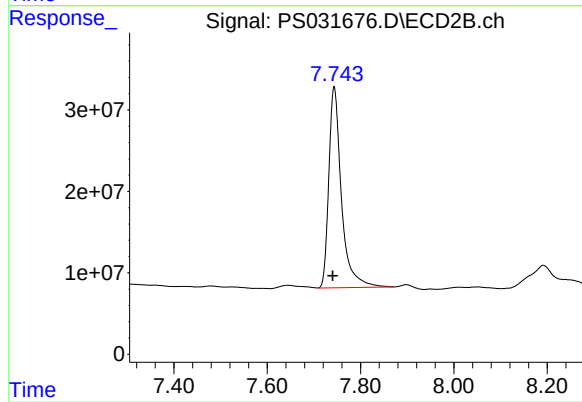




#4 2,4-DCAA

R.T.: 7.286 min
Delta R.T.: 0.003 min
Response: 1597052366
Conc: 443.44 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB169584BL



#4 2,4-DCAA

R.T.: 7.744 min
Delta R.T.: 0.003 min
Response: 463915976
Conc: 510.42 ng/ml

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	09/09/25
Project:	NJ Waste Water PT	Date Received:	09/09/25
Client Sample ID:	PIBLK-PS031667.D	SDG No.:	Q3015
Lab Sample ID:	I.BLK-PS031667.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031667.D	1		09/09/25	Ps090925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
93-65-2	MCPP	0.079	U	0.079	0.20	ug/L
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
75-99-0	DALAPON	0.98	U	0.98	2.00	ug/L
94-74-6	MCPA	0.10	U	0.10	0.20	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
87-86-5	Pentachlorophenol	0.70	U	0.70	2.00	ug/L
100-02-7	4-Nitrophenol	0.83	U	0.83	2.00	ug/L
1918-02-1	PICLORAM	0.63	U	0.63	2.00	ug/L
1861-32-1	DCPA	0.82	U	0.82	2.00	ug/L
51-36-5	3,5-DICHLOROBENZOIC AC	0.70	U	0.70	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	525		61 - 136	105%	SPK: 500

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark			Date Collected:	09/09/25	
Project:	NJ Waste Water PT			Date Received:	09/09/25	
Client Sample ID:	PIBLK-PS031667.D			SDG No.:	Q3015	
Lab Sample ID:	I.BLK-PS031667.D			Matrix:	WATER	
Analytical Method:	8151A			% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	10000	uL
Soil Aliquot Vol:			uL	Test:	Herbicide group1	
Extraction Type:				Injection Volume :		
GPC Factor :	1.0	PH :				
Prep Method :	SW3510C					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031667.D	1		09/09/25	Ps090925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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 OC 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\PS090925\
Data File : PS031667.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2025 11:08
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: Sep 09 13:57:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090925.M
Quant Title : 8080.M
QLast Update : Tue Sep 09 13:56:38 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	7.288	7.747	1603.7E6	477.2E6	445.295	525.021

Target Compounds

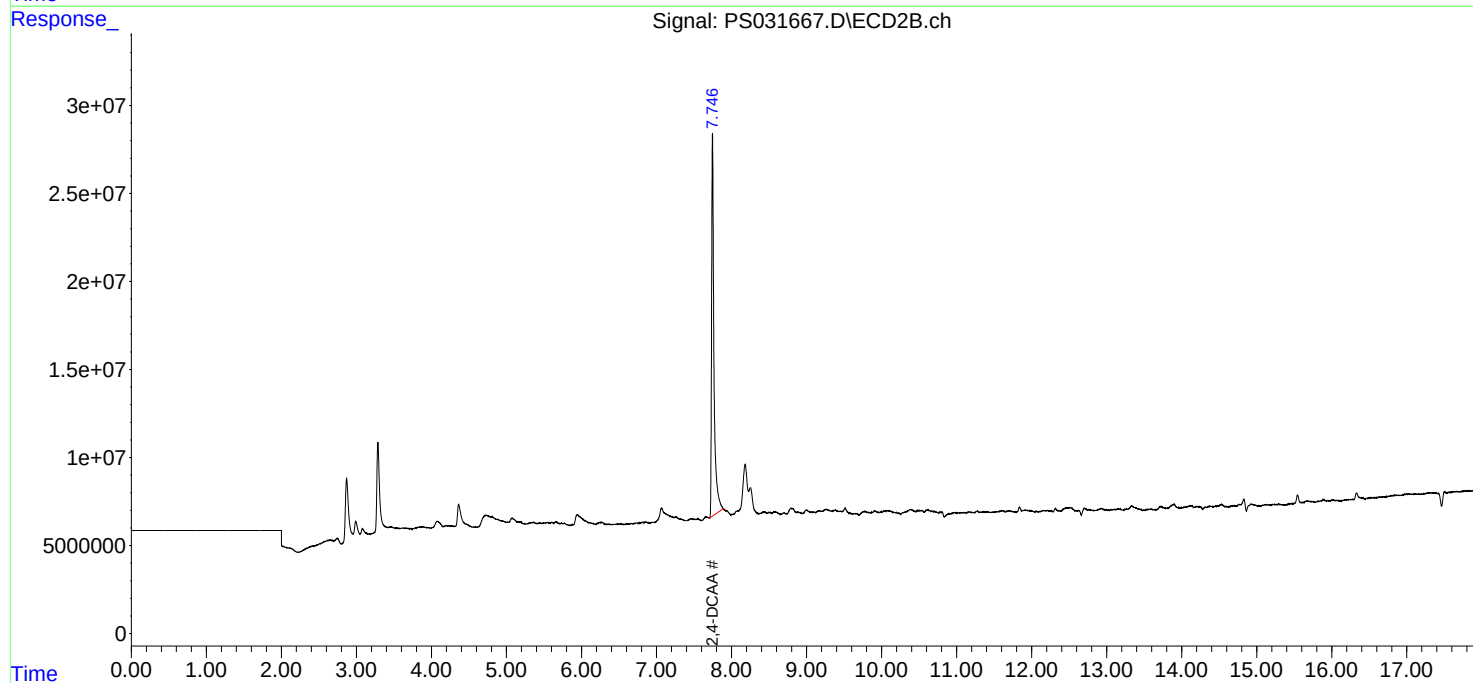
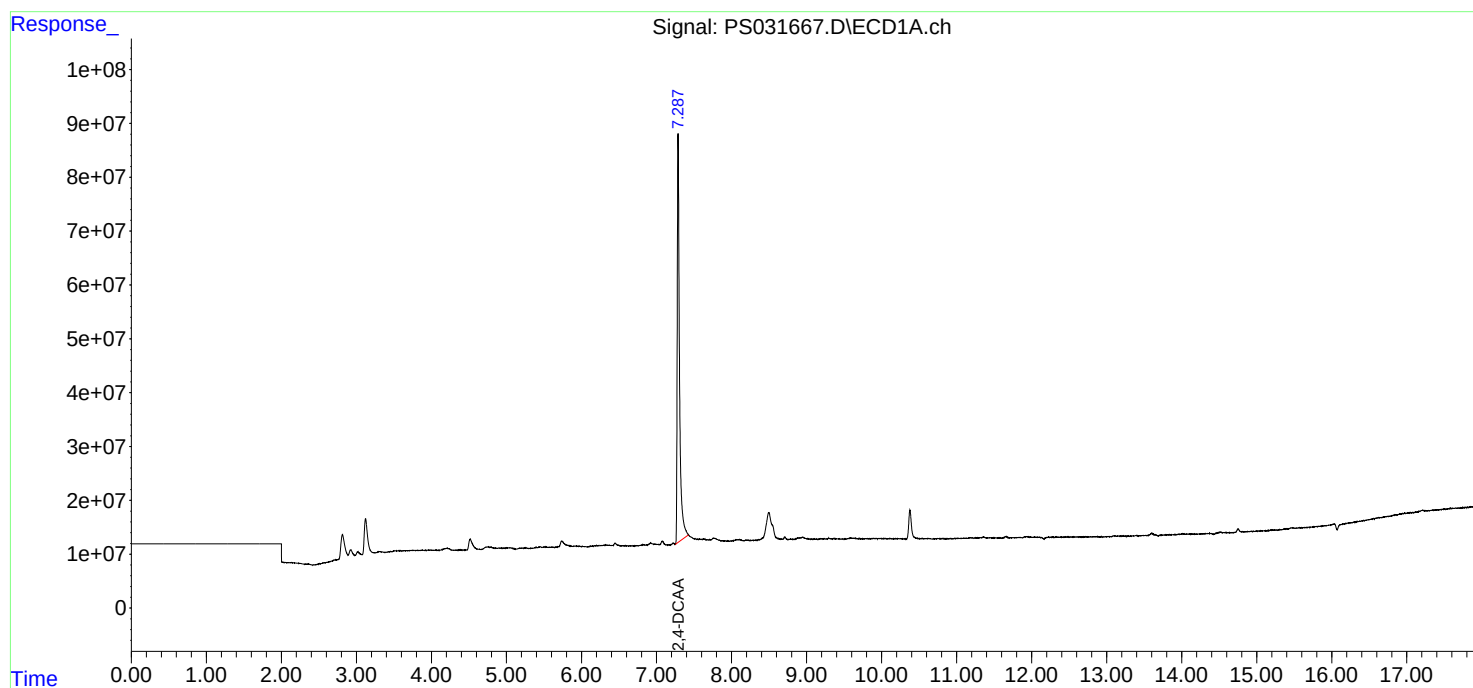
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

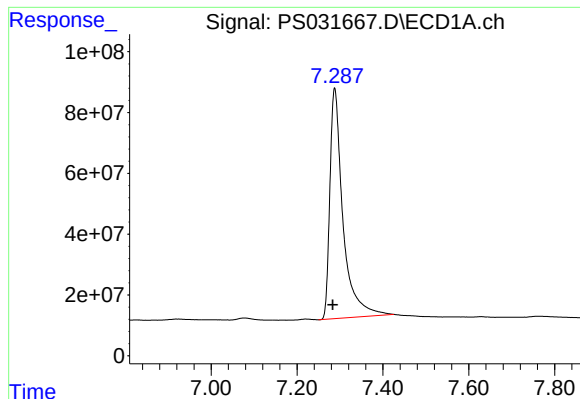
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090925\
Data File : PS031667.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2025 11:08
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 13:57:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090925.M
Quant Title : 8080.M
QLast Update : Tue Sep 09 13:56:38 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

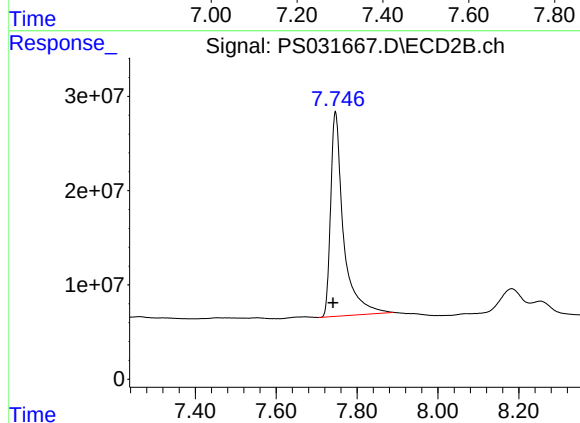




#4 2,4-DCAA

R.T.: 7.288 min
Delta R.T.: 0.005 min
Response: 1603740300
Conc: 445.29 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.747 min
Delta R.T.: 0.006 min
Response: 477190885
Conc: 525.02 ng/ml

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	09/09/25
Project:	NJ Waste Water PT	Date Received:	09/09/25
Client Sample ID:	PIBLK-PS031674.D	SDG No.:	Q3015
Lab Sample ID:	I.BLK-PS031674.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031674.D	1		09/09/25	Ps090925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
93-65-2	MCPP	0.079	U	0.079	0.20	ug/L
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
75-99-0	DALAPON	0.98	U	0.98	2.00	ug/L
94-74-6	MCPA	0.10	U	0.10	0.20	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
87-86-5	Pentachlorophenol	0.70	U	0.70	2.00	ug/L
100-02-7	4-Nitrophenol	0.83	U	0.83	2.00	ug/L
1918-02-1	PICLORAM	0.63	U	0.63	2.00	ug/L
1861-32-1	DCPA	0.82	U	0.82	2.00	ug/L
51-36-5	3,5-DICHLOROBENZOIC AC	0.70	U	0.70	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	515		61 - 136	103%	SPK: 500

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	09/09/25	
Project:	NJ Waste Water PT		Date Received:	09/09/25	
Client Sample ID:	PIBLK-PS031674.D		SDG No.:	Q3015	
Lab Sample ID:	I.BLK-PS031674.D		Matrix:	WATER	
Analytical Method:	8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031674.D	1		09/09/25	Ps090925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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\PS090925\
Data File : PS031674.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2025 13:57
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: Sep 09 15:14:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090925.M
Quant Title : 8080.M
QLast Update : Tue Sep 09 13:56:38 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	7.287	7.747	1603.5E6	468.1E6	445.227	514.971

Target Compounds

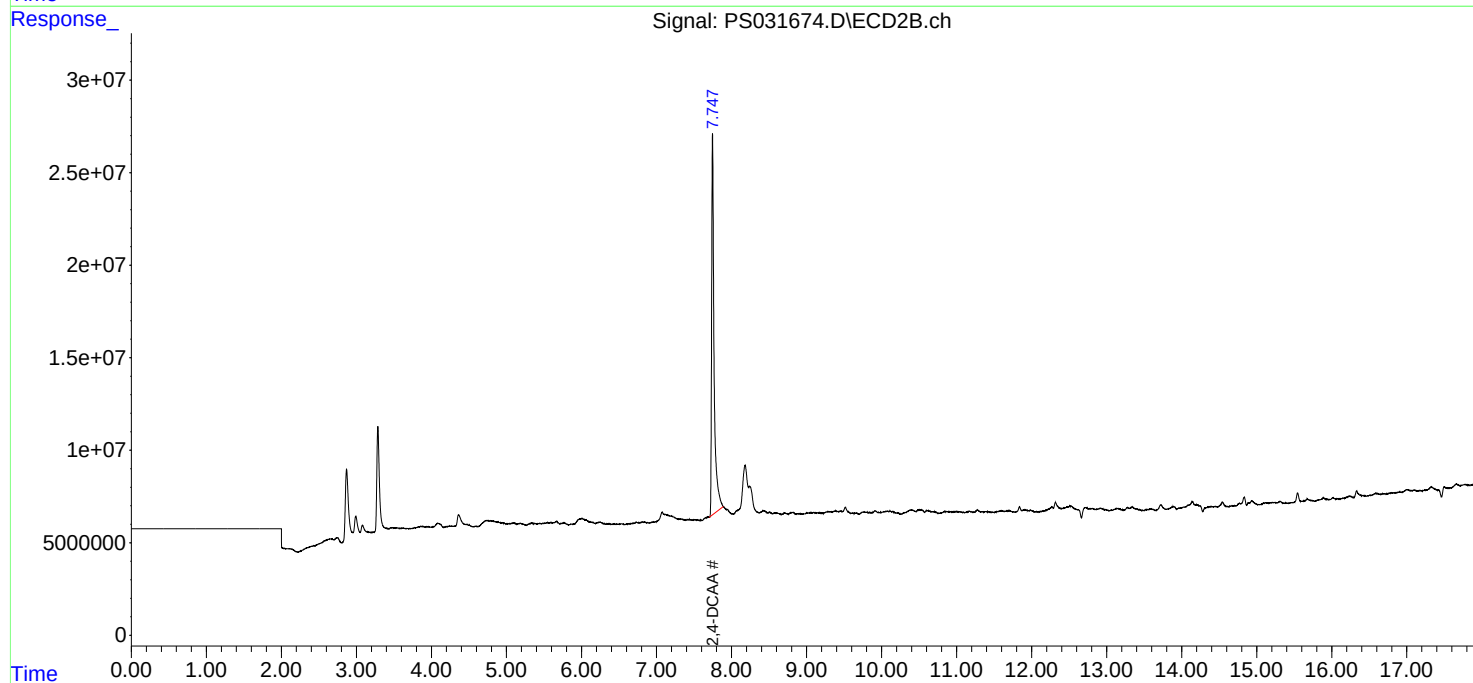
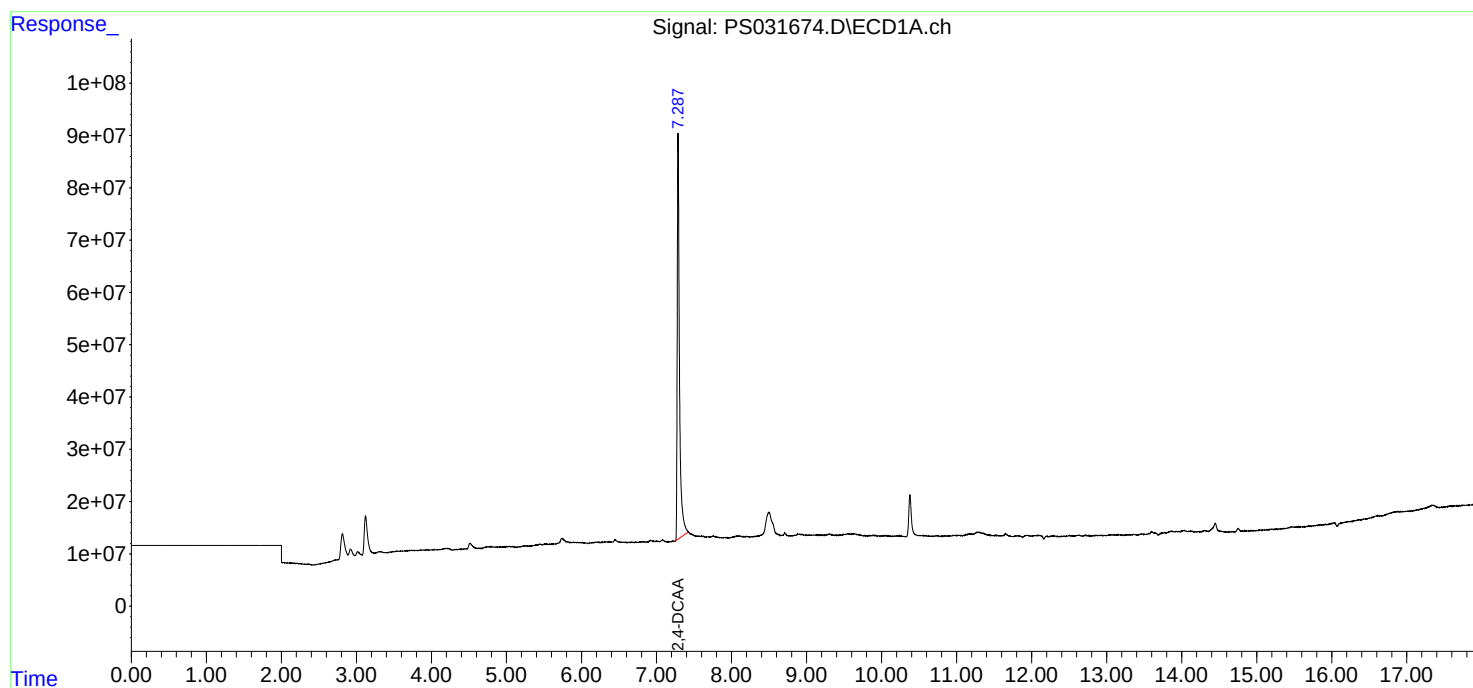
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

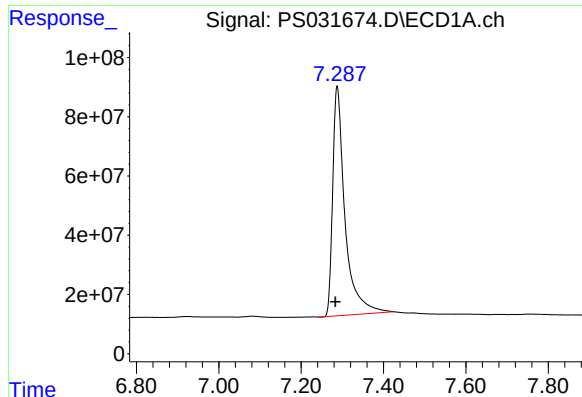
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090925\
Data File : PS031674.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2025 13:57
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 09 15:14:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090925.M
Quant Title : 8080.M
QLast Update : Tue Sep 09 13:56:38 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

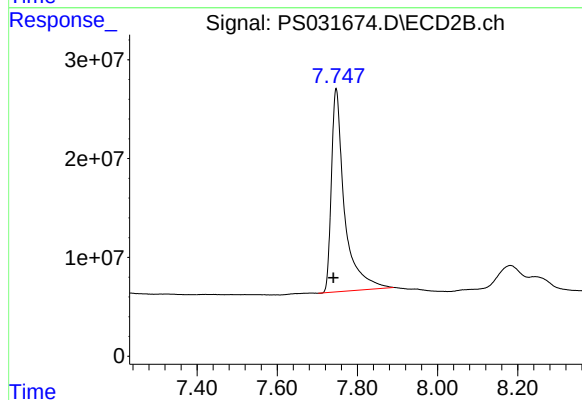




#4 2,4-DCAA

R.T.: 7.287 min
Delta R.T.: 0.004 min
Response: 1603497808
Conc: 445.23 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.747 min
Delta R.T.: 0.007 min
Response: 468057219
Conc: 514.97 ng/ml

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	09/09/25
Project:	NJ Waste Water PT	Date Received:	09/09/25
Client Sample ID:	PIBLK-PS031682.D	SDG No.:	Q3015
Lab Sample ID:	I.BLK-PS031682.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031682.D	1		09/09/25	PS090925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
93-65-2	MCPP	0.079	U	0.079	0.20	ug/L
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
75-99-0	DALAPON	0.98	U	0.98	2.00	ug/L
94-74-6	MCPA	0.10	U	0.10	0.20	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
87-86-5	Pentachlorophenol	0.70	U	0.70	2.00	ug/L
100-02-7	4-Nitrophenol	0.83	U	0.83	2.00	ug/L
1918-02-1	PICLORAM	0.63	U	0.63	2.00	ug/L
1861-32-1	DCPA	0.82	U	0.82	2.00	ug/L
51-36-5	3,5-DICHLOROBENZOIC AC	0.70	U	0.70	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	536		61 - 136	107%	SPK: 500

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	09/09/25	
Project:	NJ Waste Water PT		Date Received:	09/09/25	
Client Sample ID:	PIBLK-PS031682.D		SDG No.:	Q3015	
Lab Sample ID:	I.BLK-PS031682.D		Matrix:	WATER	
Analytical Method:	8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031682.D	1		09/09/25	PS090925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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\PS090925\
Data File : PS031682.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2025 17:10
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 01:39:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090925.M
Quant Title : 8080.M
QLast Update : Tue Sep 09 13:56:38 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	7.289	7.747	1620.2E6	487.3E6	449.852	536.119m

Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090925\
Data File : PS031682.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2025 17:10
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

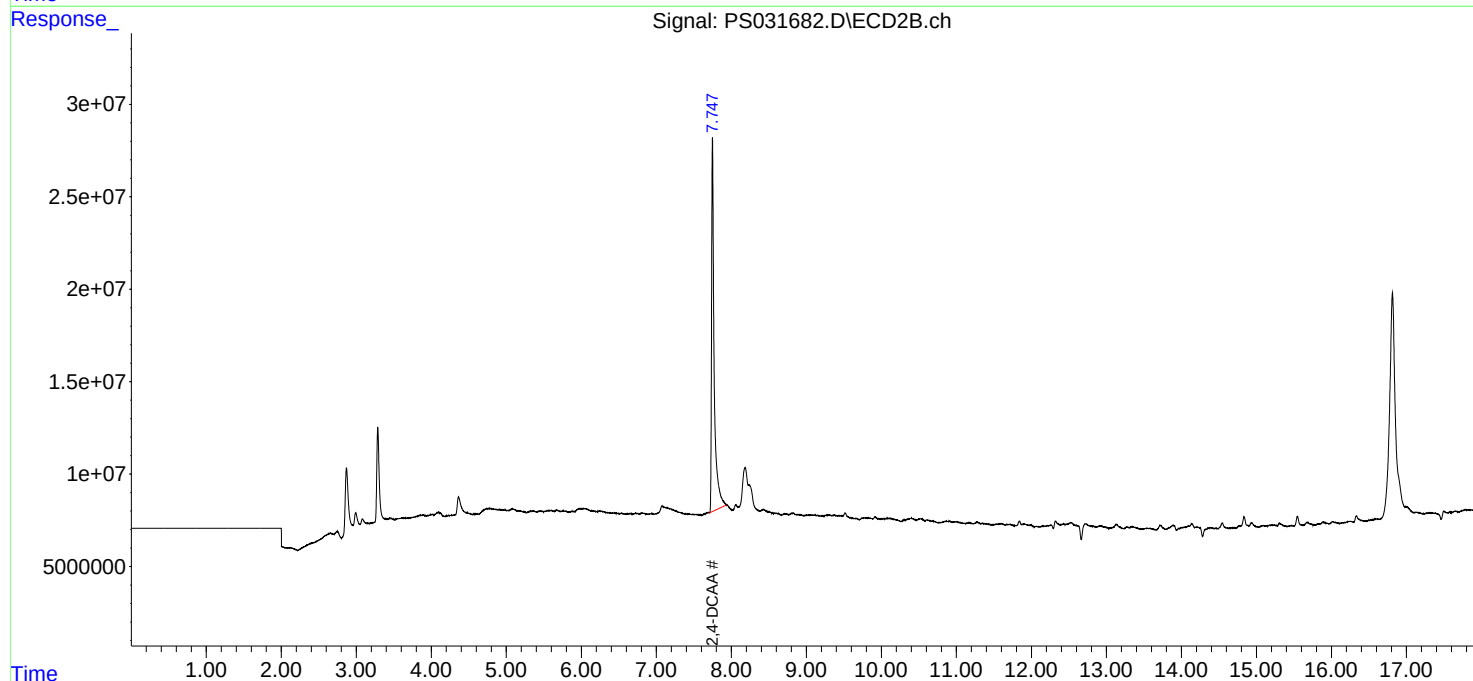
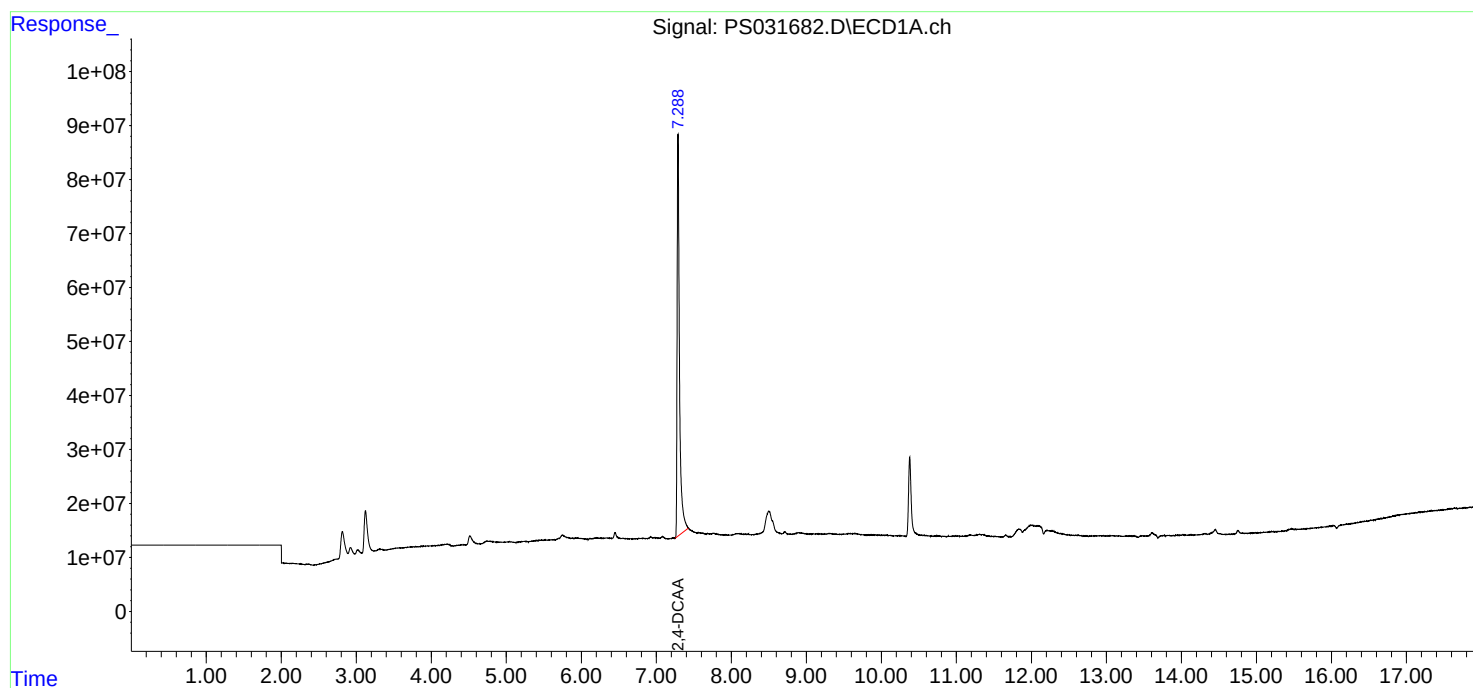
Instrument :
ECD_S
ClientSampleId :
I.BLK

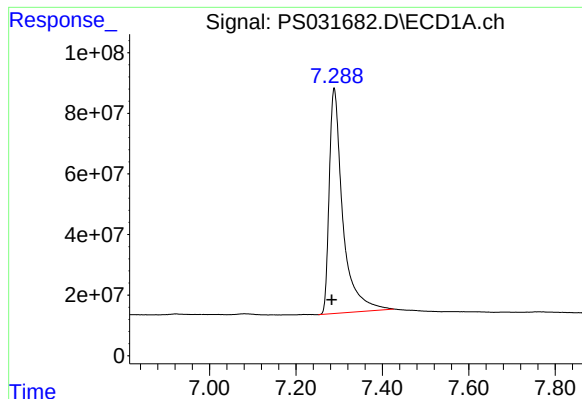
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 01:39:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090925.M
Quant Title : 8080.M
QLast Update : Tue Sep 09 13:56:38 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





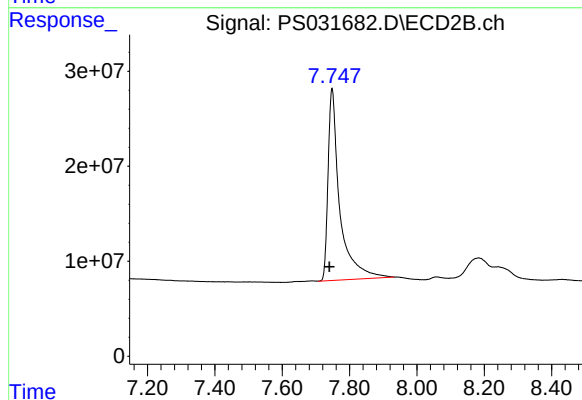
#4 2,4-DCAA

R.T.: 7.289 min
Delta R.T.: 0.005 min
Response: 1620155934
Conc: 449.85 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 09/10/2025
Supervised By :mohammad ahmed 09/11/2025



#4 2,4-DCAA

R.T.: 7.747 min
Delta R.T.: 0.007 min
Response: 487278640
Conc: 536.12 ng/ml m

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB169584BS	SDG No.:	Q3015
Lab Sample ID:	PB169584BS	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031678.D	1	09/05/25 09:20	09/09/25 15:33	PB169584

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
93-65-2	MCPP	0.49		0.079	0.20	ug/L
1918-00-9	DICAMBA	4.90		0.65	2.00	ug/L
75-99-0	DALAPON	4.70		0.98	2.00	ug/L
94-74-6	MCPA	0.47		0.10	0.20	ug/L
120-36-5	DICHLORPROP	4.90		0.76	2.00	ug/L
94-75-7	2,4-D	5.50		0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	5.00		0.78	2.00	ug/L
93-76-5	2,4,5-T	4.90		0.71	2.00	ug/L
94-82-6	2,4-DB	4.80		0.65	2.00	ug/L
88-85-7	DINOSEB	5.20		0.89	2.00	ug/L
87-86-5	Pentachlorophenol	5.30		0.70	2.00	ug/L
100-02-7	4-Nitrophenol	5.10		0.83	2.00	ug/L
1918-02-1	PICLORAM	4.60		0.63	2.00	ug/L
1861-32-1	DCPA	5.10		0.82	2.00	ug/L
51-36-5	3,5-DICHLOROBENZOIC AC	4.90		0.70	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	527		61 - 136	105%	SPK: 500

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB169584BS	SDG No.:	Q3015
Lab Sample ID:	PB169584BS	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031678.D	1	09/05/25 09:20	09/09/25 15:33	PB169584

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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\PS090925\
 Data File : PS031678.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09 Sep 2025 15:33
 Operator : AR\AJ
 Sample : PB169584BS
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 PB169584BS

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Sep 10 01:39:06 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090925.M
 Quant Title : 8080.M
 QLast Update : Tue Sep 09 13:56:38 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	7.287	7.745	1899.0E6	449.6E6	527.284	494.616
Target Compounds							
1) T	Dalapon	2.671	2.690	2664.2E6	1312.8E6	460.880	465.933
2) T	3,5-DICHL...	6.454	6.698	2570.1E6	741.1E6	481.893	485.977
3) T	4-Nitroph...	7.099	7.303	559.0E6	509.2E6	506.669	403.272
5) T	DICAMBA	7.469	7.940	7632.6E6	3082.3E6	489.373	473.709
6) T	MCPD	7.646	8.035	406.6E6	92912866	45.481	49.332
7) T	MCPA	7.795	8.282	509.0E6	132.3E6	45.816	47.220
8) T	DICHLORPROP	8.178	8.660	1728.4E6	718.8E6	485.259	494.029
9) T	2,4-D	8.417	9.005	1881.7E6	770.0E6	549.290	468.030
10) T	Pentachlo...	8.708	9.509	28141.9E6	19946.8E6	530.041	502.559
11) T	2,4,5-TP ...	9.287	9.895	10395.8E6	7341.0E6	495.659	487.635
12) T	2,4,5-T	9.585	10.325	9042.2E6	6363.5E6	494.159	472.878
13) T	2,4-DB	10.161	10.893	1119.0E6	479.7E6	479.670	448.270
14) T	DINOSEB	11.355	11.266	7452.7E6	5002.4E6	516.735	514.618
15) T	Picloram	11.190	12.391	8349.1E6	10651.2E6	463.555	449.735
16) T	DCPA	11.653	12.307	13680.3E6	12242.9E6	507.621	507.919

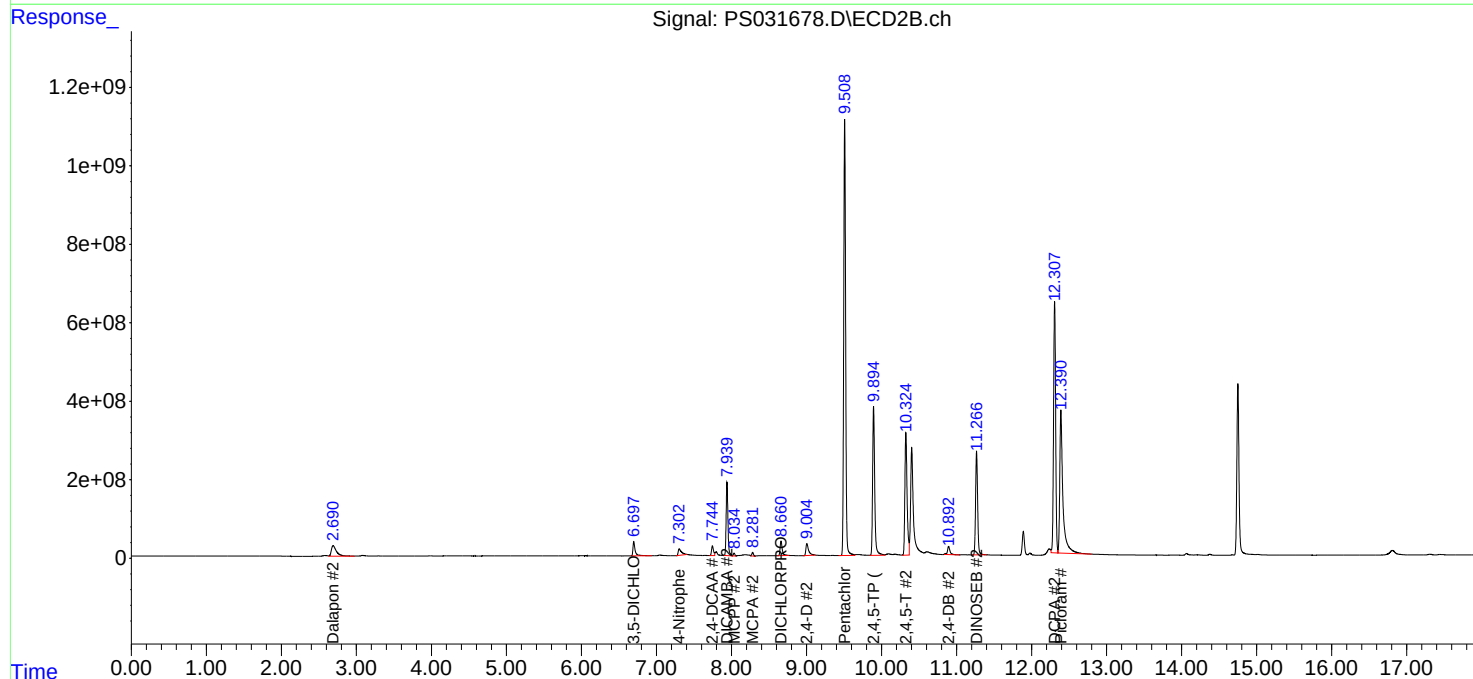
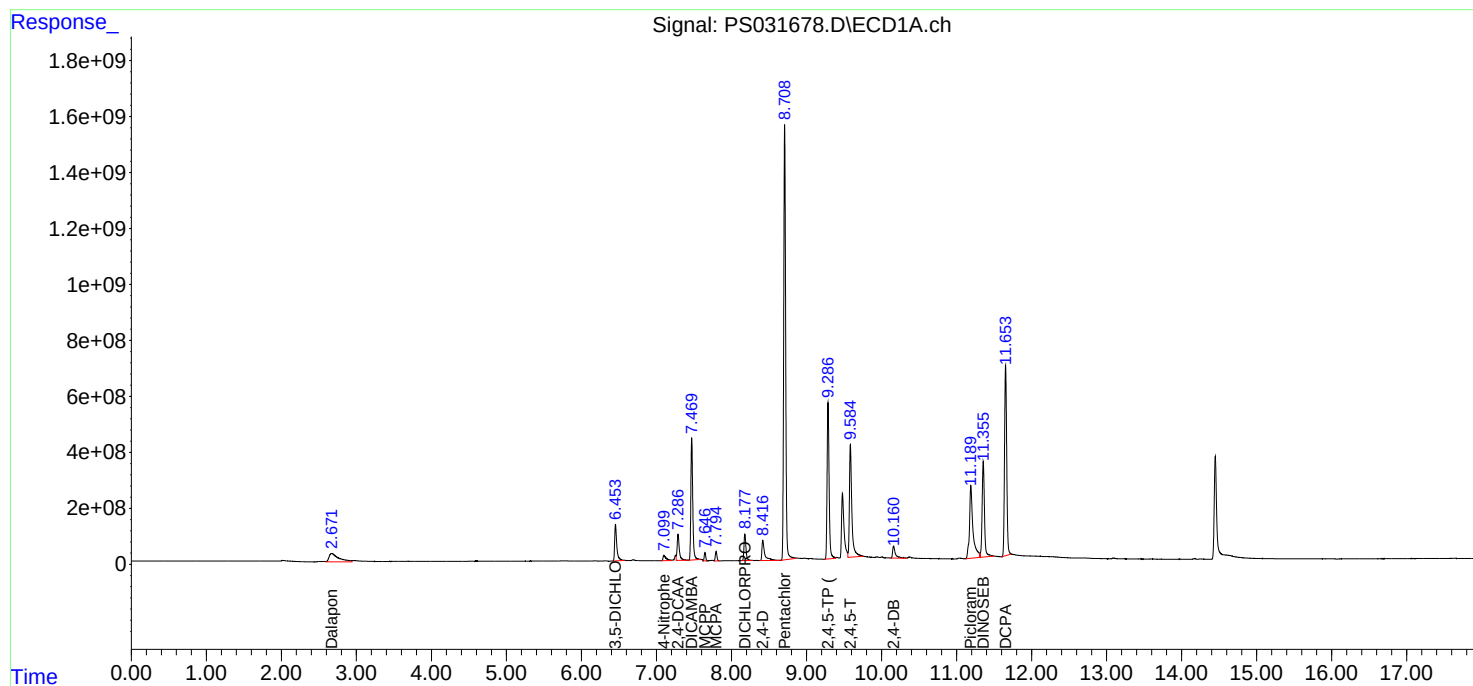
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

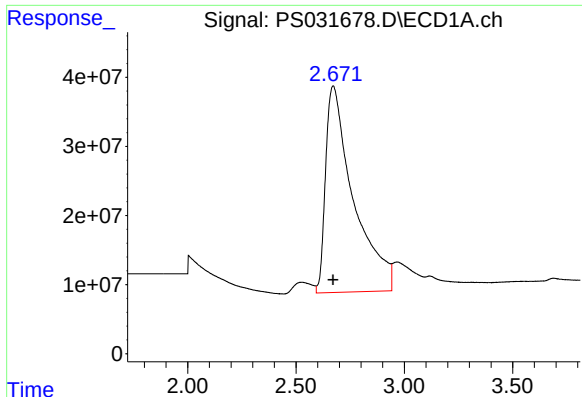
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090925\
Data File : PS031678.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2025 15:33
Operator : AR\AJ
Sample : PB169584BS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB169584BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 01:39:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090925.M
Quant Title : 8080.M
QLast Update : Tue Sep 09 13:56:38 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

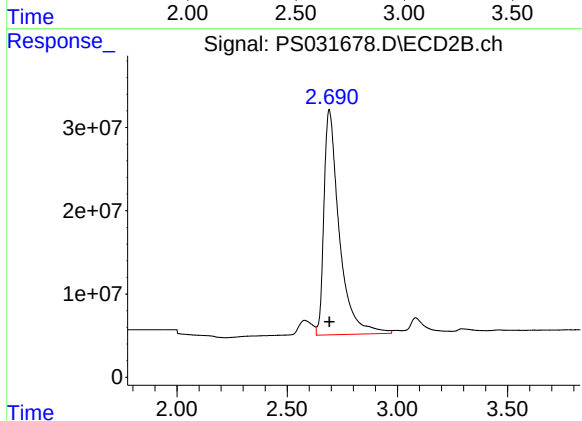




#1 Dalapon

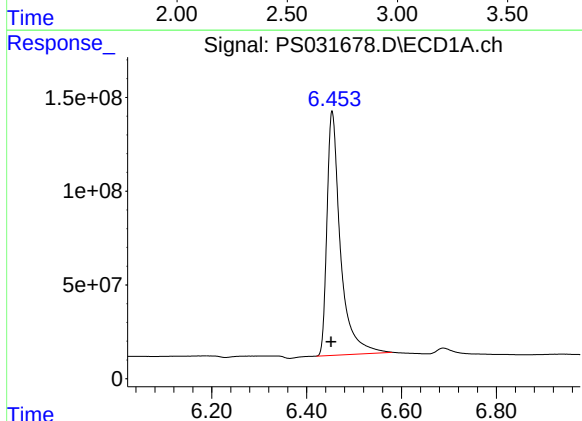
R.T.: 2.671 min
Delta R.T.: 0.000 min
Response: 2664230842
Conc: 460.88 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB169584BS



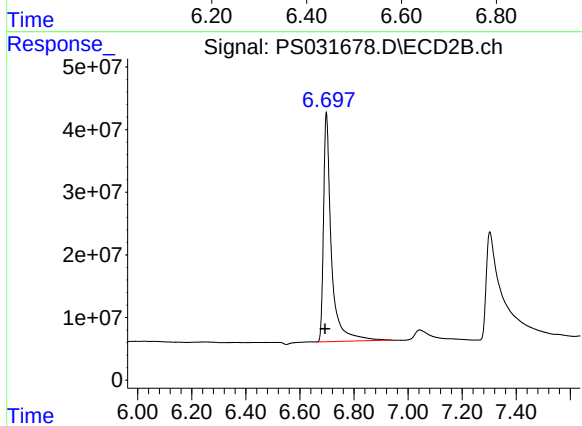
#1 Dalapon

R.T.: 2.690 min
Delta R.T.: -0.002 min
Response: 1312825329
Conc: 465.93 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

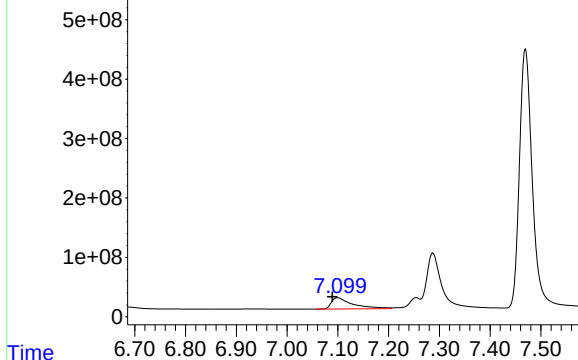
R.T.: 6.454 min
Delta R.T.: 0.002 min
Response: 2570109098
Conc: 481.89 ng/ml



#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.698 min
Delta R.T.: 0.005 min
Response: 741097502
Conc: 485.98 ng/ml

Response_ Signal: PS031678.D\ECD1A.ch

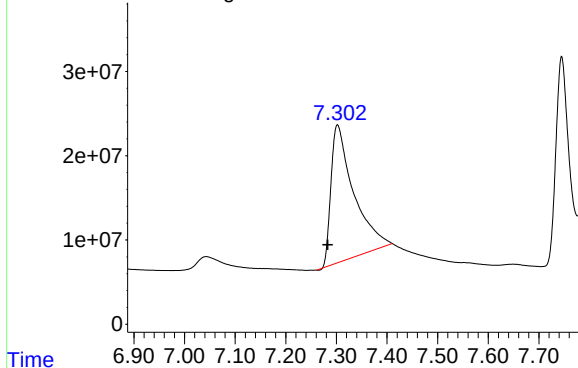


#3 4-Nitrophenol

R.T.: 7.099 min
Delta R.T.: 0.010 min
Response: 558961519
Conc: 506.67 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB169584BS

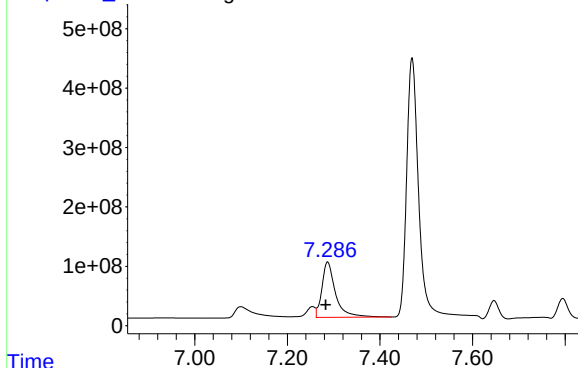
Time Response_ Signal: PS031678.D\ECD2B.ch



#3 4-Nitrophenol

R.T.: 7.303 min
Delta R.T.: 0.020 min
Response: 509246207
Conc: 403.27 ng/ml

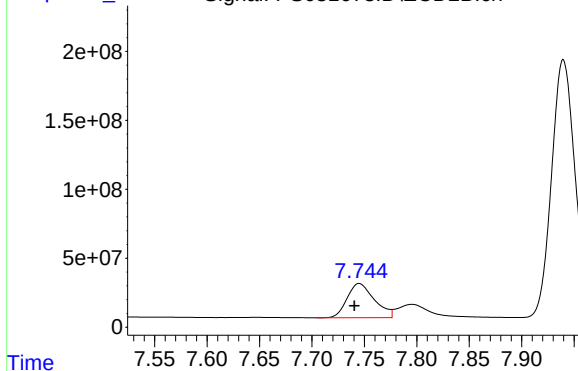
Time Response_ Signal: PS031678.D\ECD1A.ch



#4 2,4-DCAA

R.T.: 7.287 min
Delta R.T.: 0.004 min
Response: 1899027699
Conc: 527.28 ng/ml

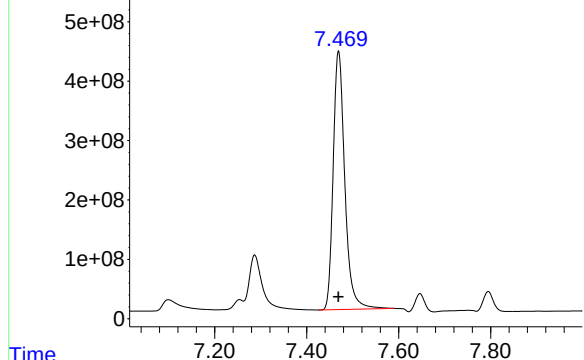
Time Response_ Signal: PS031678.D\ECD2B.ch



#4 2,4-DCAA

R.T.: 7.745 min
Delta R.T.: 0.005 min
Response: 449556376
Conc: 494.62 ng/ml

Response_ Signal: PS031678.D\ECD1A.ch

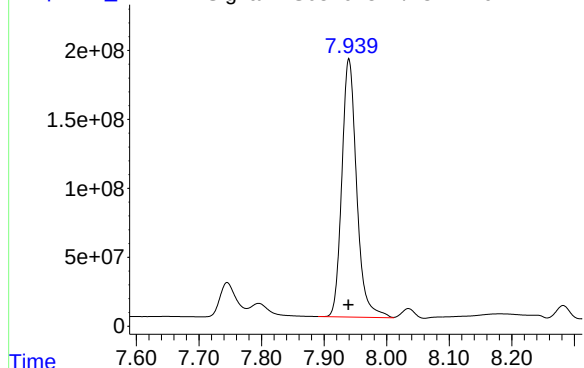


#5 DICAMBA

R.T.: 7.469 min
Delta R.T.: 0.000 min
Response: 7632611377
Conc: 489.37 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB169584BS

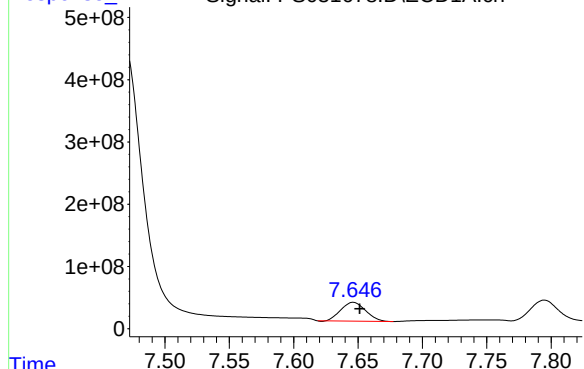
Time Response_ Signal: PS031678.D\ECD2B.ch



#5 DICAMBA

R.T.: 7.940 min
Delta R.T.: 0.001 min
Response: 3082349676
Conc: 473.71 ng/ml

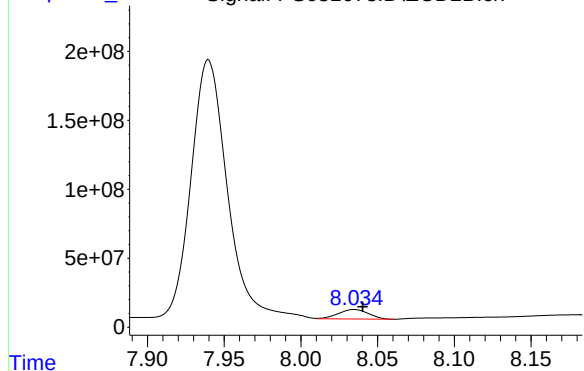
Time Response_ Signal: PS031678.D\ECD1A.ch



#6 MCP

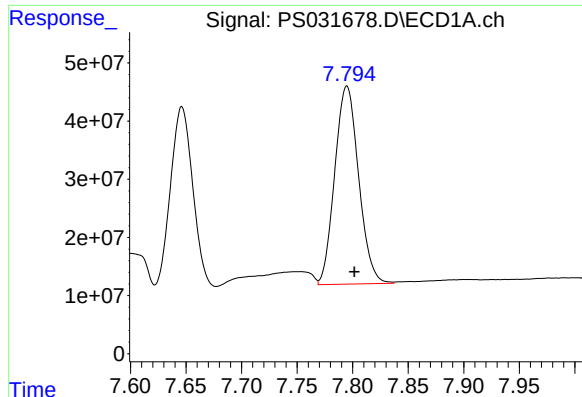
R.T.: 7.646 min
Delta R.T.: -0.005 min
Response: 406567523
Conc: 45.48 ug/ml

Time Response_ Signal: PS031678.D\ECD2B.ch



#6 MCP

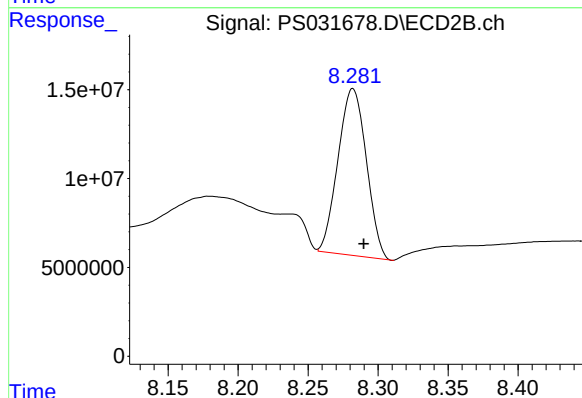
R.T.: 8.035 min
Delta R.T.: -0.005 min
Response: 92912866
Conc: 49.33 ug/ml



#7 MCPA

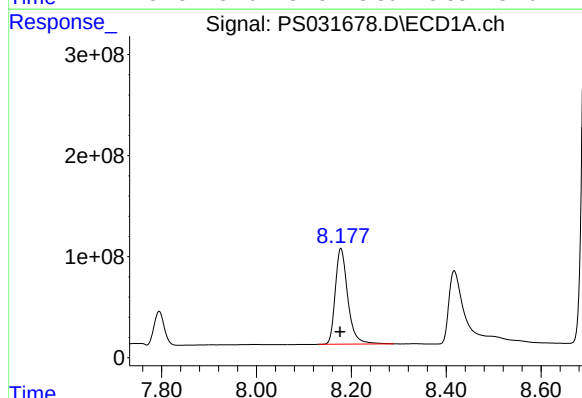
R.T.: 7.795 min
Delta R.T.: -0.007 min
Response: 509033727
Conc: 45.82 ug/ml

Instrument :
ECD_S
ClientSampleId :
PB169584BS



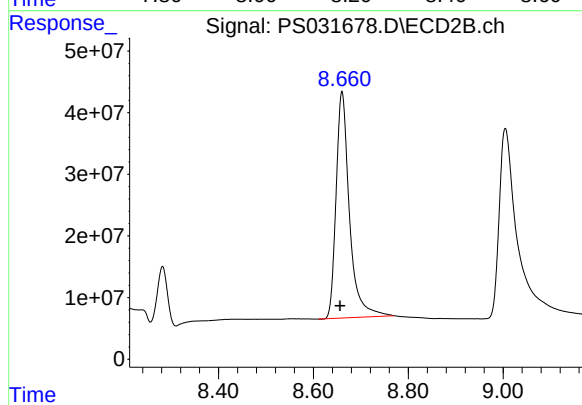
#7 MCPA

R.T.: 8.282 min
Delta R.T.: -0.008 min
Response: 132273609
Conc: 47.22 ug/ml



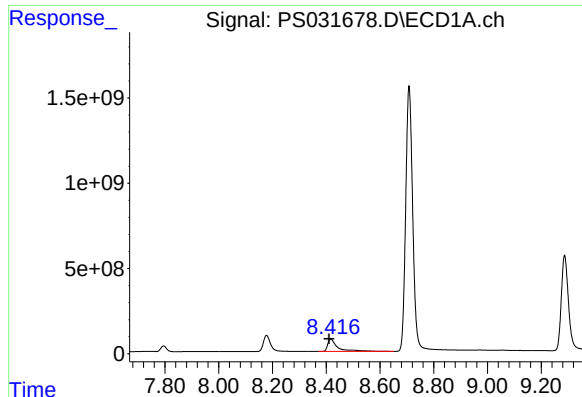
#8 DICHLORPROP

R.T.: 8.178 min
Delta R.T.: 0.002 min
Response: 1728377300
Conc: 485.26 ng/ml



#8 DICHLORPROP

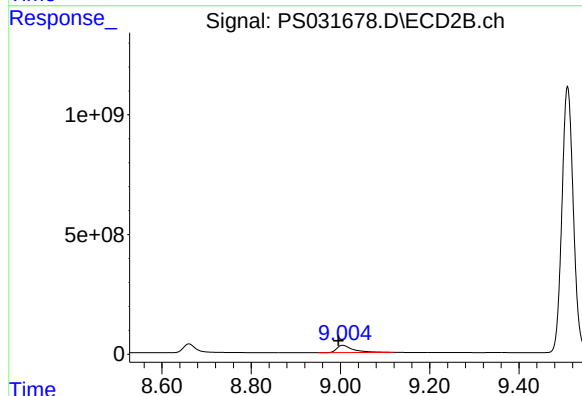
R.T.: 8.660 min
Delta R.T.: 0.004 min
Response: 718842182
Conc: 494.03 ng/ml



#9 2,4-D

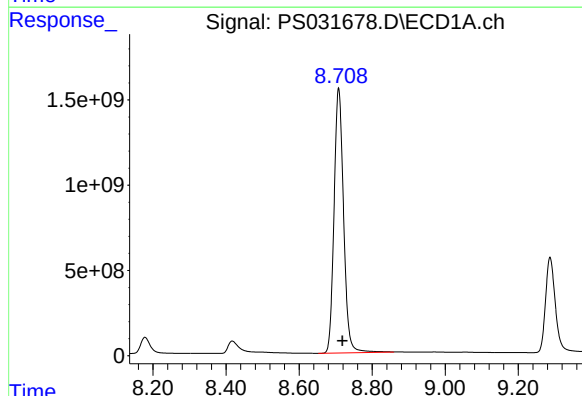
R.T.: 8.417 min
Delta R.T.: 0.006 min
Response: 1881669840
Conc: 549.29 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB169584BS



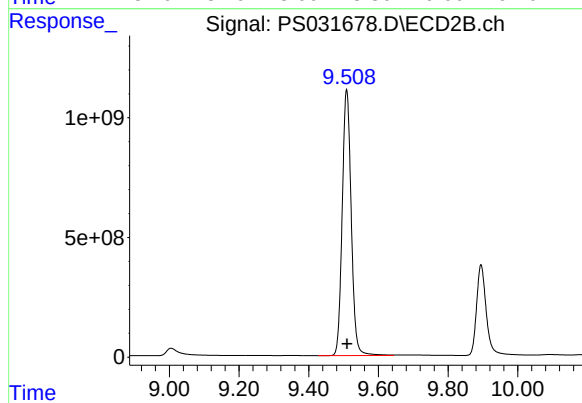
#9 2,4-D

R.T.: 9.005 min
Delta R.T.: 0.009 min
Response: 769961882
Conc: 468.03 ng/ml



#10 Pentachlorophenol

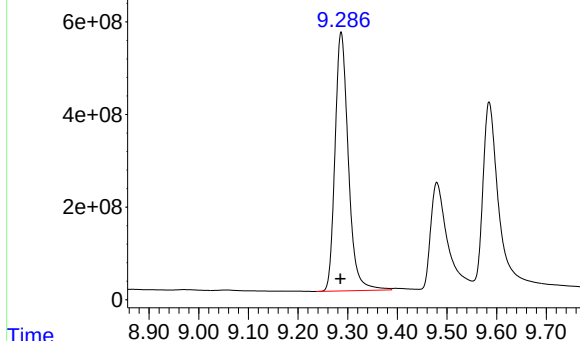
R.T.: 8.708 min
Delta R.T.: -0.011 min
Response: 28141919992
Conc: 530.04 ng/ml



#10 Pentachlorophenol

R.T.: 9.509 min
Delta R.T.: 0.000 min
Response: 19946828146
Conc: 502.56 ng/ml

Response_ Signal: PS031678.D\ECD1A.ch

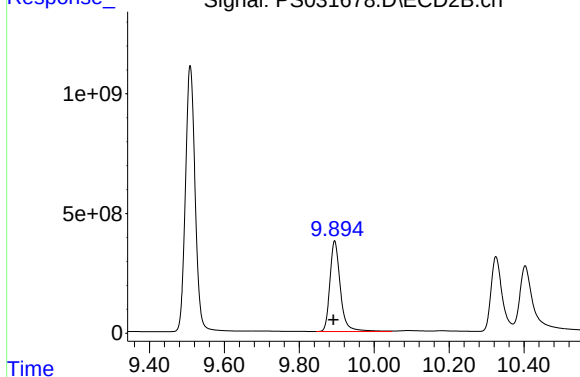


#11 2,4,5-TP (SILVEX)

R.T.: 9.287 min
Delta R.T.: 0.002 min
Response: 10395797604
Conc: 495.66 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB169584BS

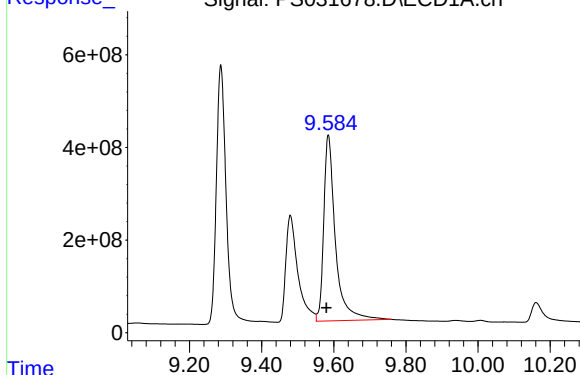
Time Response_ Signal: PS031678.D\ECD2B.ch



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

R.T.: 9.895 min
Delta R.T.: 0.003 min
Response: 7341013333
Conc: 487.64 ng/ml

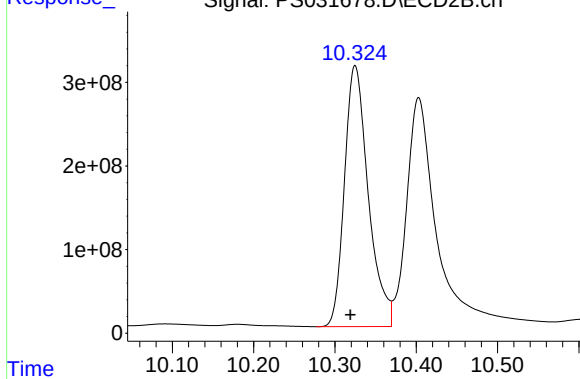
Time Response_ Signal: PS031678.D\ECD1A.ch



#12 2,4,5-T

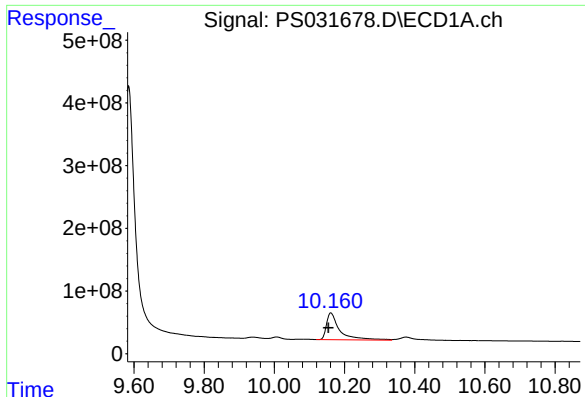
R.T.: 9.585 min
Delta R.T.: 0.005 min
Response: 9042208304
Conc: 494.16 ng/ml

Time Response_ Signal: PS031678.D\ECD2B.ch



#12 2,4,5-T

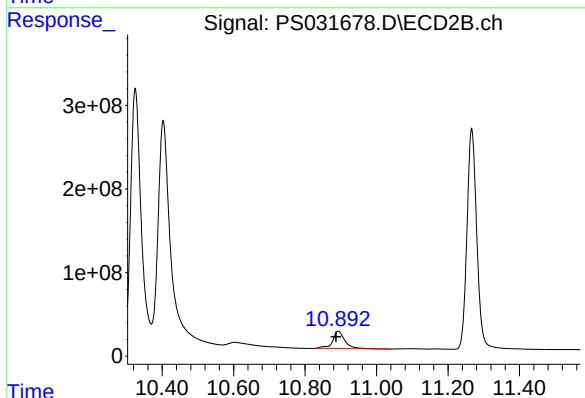
R.T.: 10.325 min
Delta R.T.: 0.006 min
Response: 6363525392
Conc: 472.88 ng/ml



#13 2,4-DB

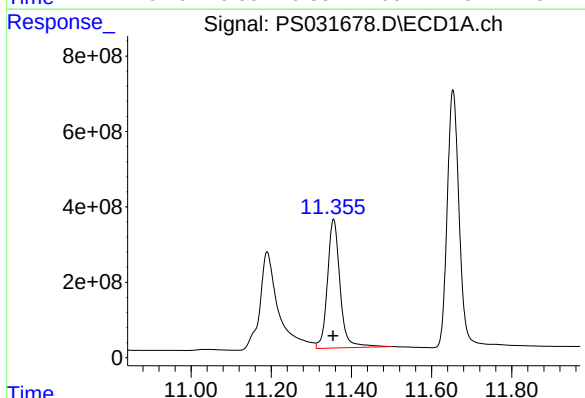
R.T.: 10.161 min
Delta R.T.: 0.007 min
Response: 1118957803
Conc: 479.67 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB169584BS



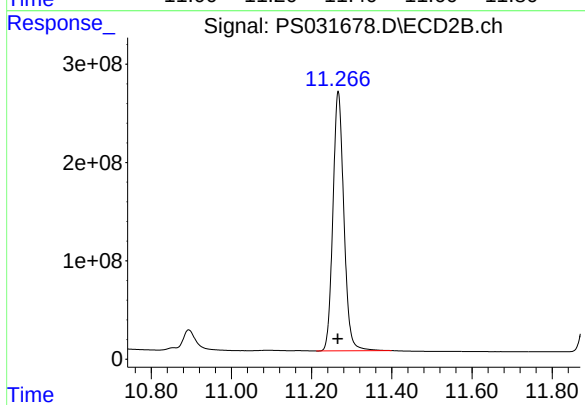
#13 2,4-DB

R.T.: 10.893 min
Delta R.T.: 0.007 min
Response: 479669075
Conc: 448.27 ng/ml



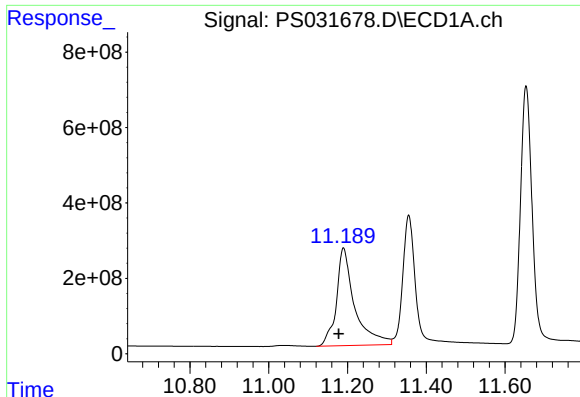
#14 DINOSEB

R.T.: 11.355 min
Delta R.T.: 0.001 min
Response: 7452706159
Conc: 516.73 ng/ml



#14 DINOSEB

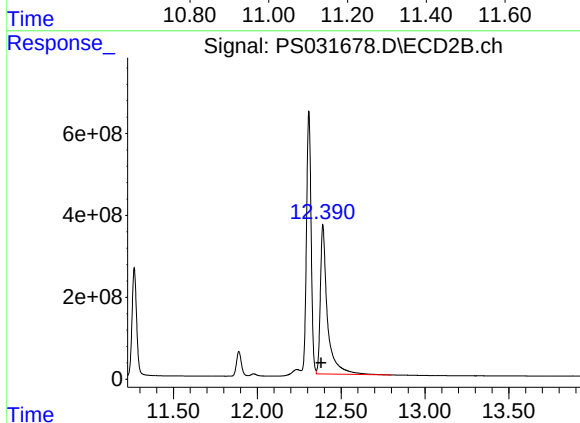
R.T.: 11.266 min
Delta R.T.: 0.000 min
Response: 5002433970
Conc: 514.62 ng/ml



#15 Picloram

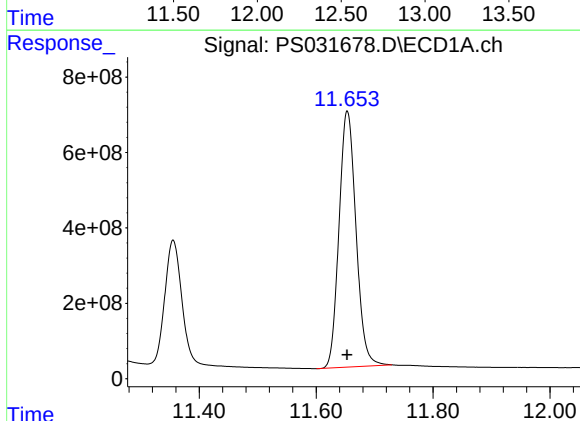
R.T.: 11.190 min
Delta R.T.: 0.012 min
Response: 8349131455
Conc: 463.56 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB169584BS



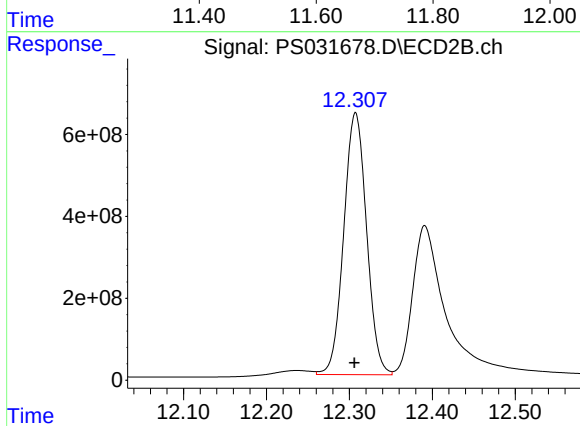
#15 Picloram

R.T.: 12.391 min
Delta R.T.: 0.012 min
Response: 10651186205
Conc: 449.74 ng/ml



#16 DCPA

R.T.: 11.653 min
Delta R.T.: 0.000 min
Response: 13680333901
Conc: 507.62 ng/ml



#16 DCPA

R.T.: 12.307 min
Delta R.T.: 0.001 min
Response: 12242938875
Conc: 507.92 ng/ml

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB169584BSD	SDG No.:	Q3015
Lab Sample ID:	PB169584BSD	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031679.D	1	09/05/25 09:20	09/09/25 15:57	PB169584

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
93-65-2	MCPP	0.49		0.079	0.20	ug/L
1918-00-9	DICAMBA	4.90		0.65	2.00	ug/L
75-99-0	DALAPON	4.70		0.98	2.00	ug/L
94-74-6	MCPA	0.47		0.10	0.20	ug/L
120-36-5	DICHLORPROP	4.90		0.76	2.00	ug/L
94-75-7	2,4-D	4.80		0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	5.00		0.78	2.00	ug/L
93-76-5	2,4,5-T	4.90		0.71	2.00	ug/L
94-82-6	2,4-DB	4.80		0.65	2.00	ug/L
88-85-7	DINOSEB	5.20		0.89	2.00	ug/L
87-86-5	Pentachlorophenol	5.30		0.70	2.00	ug/L
100-02-7	4-Nitrophenol	5.00		0.83	2.00	ug/L
1918-02-1	PICLORAM	4.70		0.63	2.00	ug/L
1861-32-1	DCPA	5.10		0.82	2.00	ug/L
51-36-5	3,5-DICHLOROBENZOIC AC	4.90		0.70	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	528		61 - 136	106%	SPK: 500

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	
Project:	NJ Waste Water PT		Date Received:	
Client Sample ID:	PB169584BSD		SDG No.:	Q3015
Lab Sample ID:	PB169584BSD		Matrix:	WATER
Analytical Method:	8151A		% Solid:	0
Sample Wt/Vol:	1000	Units: mL	Decanted:	
Soil Aliquot Vol:		uL	Final Vol:	10000 uL
Extraction Type:			Test:	Herbicide group1
GPC Factor :	1.0	PH :	Injection Volume :	
Prep Method :	SW3510C			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031679.D	1	09/05/25 09:20	09/09/25 15:57	PB169584

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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\PS090925\
 Data File : PS031679.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 09 Sep 2025 15:57
 Operator : AR\AJ
 Sample : PB169584BSD
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 PB169584BSD

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Sep 10 01:39:17 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090925.M
 Quant Title : 8080.M
 QLast Update : Tue Sep 09 13:56:38 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	7.287	7.745	1902.6E6	447.6E6	528.274	492.412
Target Compounds							
1) T	Dalapon	2.672	2.691	2689.7E6	1319.2E6	465.287	468.195
2) T	3,5-DICHL...	6.454	6.698	2575.8E6	743.0E6	482.959	487.210
3) T	4-Nitroph...	7.100	7.303	548.1E6	505.5E6	496.811	400.327
5) T	DICAMBA	7.470	7.940	7663.9E6	3083.2E6	491.380	473.845
6) T	MCPD	7.646	8.035	411.2E6	92448443	46.000	49.086
7) T	MCPA	7.795	8.282	508.6E6	132.3E6	45.772	47.234
8) T	DICHLORPROP	8.178	8.660	1732.4E6	719.6E6	486.400	494.576
9) T	2,4-D	8.417	9.005	1637.1E6	771.7E6	477.884	469.076
10) T	Pentachlo...	8.709	9.510	28210.6E6	19946.1E6	531.334	502.541
11) T	2,4,5-TP ...	9.287	9.895	10417.1E6	7346.7E6	496.674	488.016
12) T	2,4,5-T	9.585	10.325	9047.7E6	6375.7E6	494.457	473.785
13) T	2,4-DB	10.161	10.894	1109.6E6	479.7E6	475.670	448.311
14) T	DINOSEB	11.356	11.267	7510.5E6	5014.1E6	520.744	515.821
15) T	Picloram	11.190	12.391	8391.9E6	11215.8E6	465.930	473.575
16) T	DCPA	11.654	12.308	13685.4E6	12061.7E6	507.810	500.400

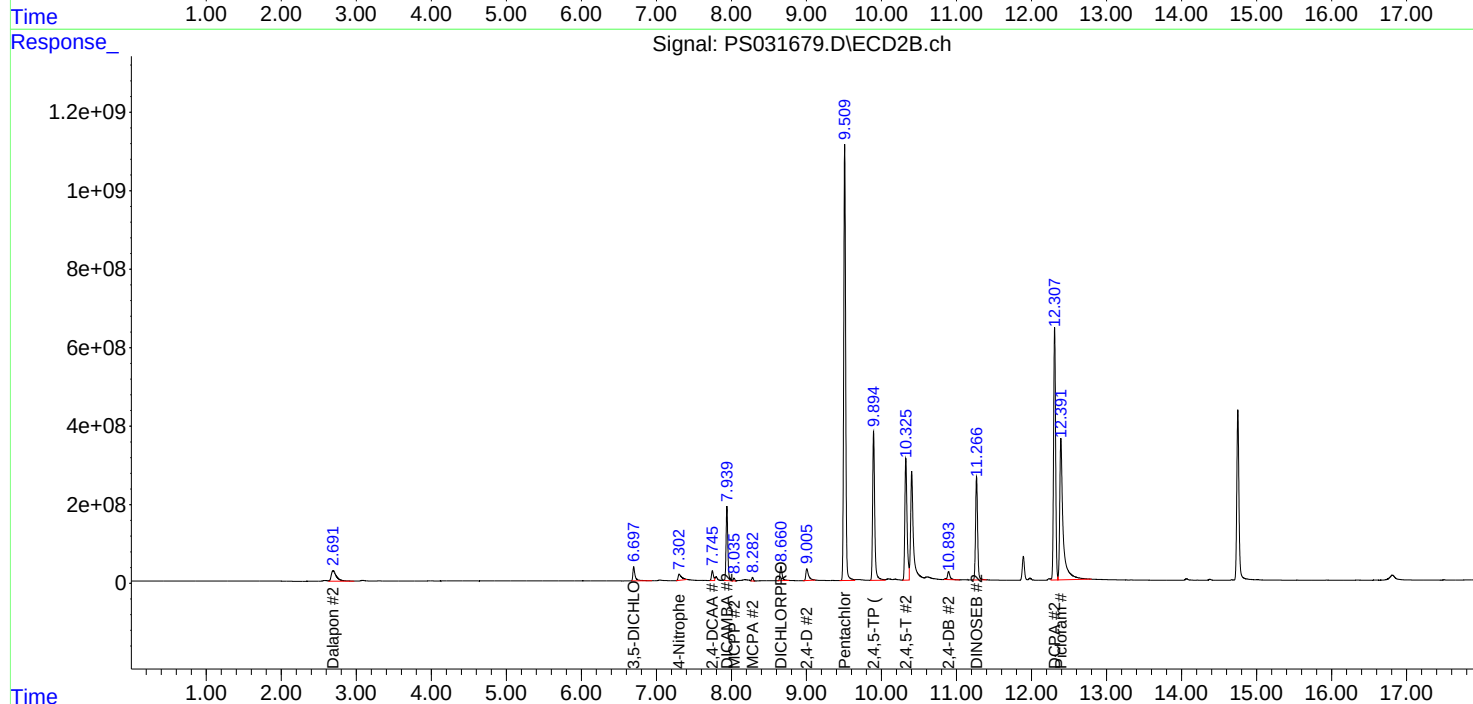
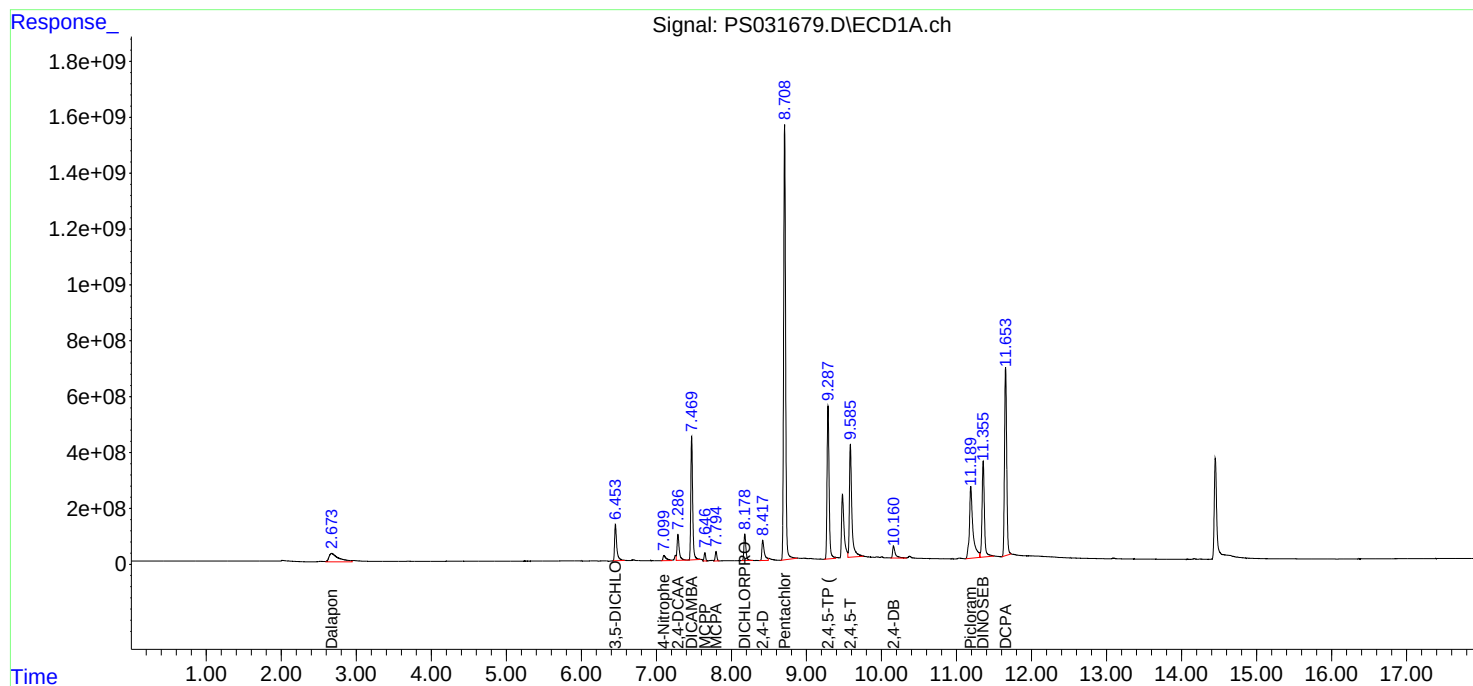
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS090925\
Data File : PS031679.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Sep 2025 15:57
Operator : AR\AJ
Sample : PB169584BSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB169584BSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 01:39:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS090925.M
Quant Title : 8080.M
QLast Update : Tue Sep 09 13:56:38 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



Response_ Signal: PS031679.D\ECD1A.ch

#1 Dalapon

R.T.: 2.672 min
Delta R.T.: 0.000 min
Response: 2689702992
Conc: 465.29 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB169584BSD

Time

Response_ Signal: PS031679.D\ECD2B.ch

#1 Dalapon

R.T.: 2.691 min
Delta R.T.: 0.000 min
Response: 1319199179
Conc: 468.20 ng/ml

Time

Response_ Signal: PS031679.D\ECD1A.ch

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.454 min
Delta R.T.: 0.002 min
Response: 2575792920
Conc: 482.96 ng/ml

Time

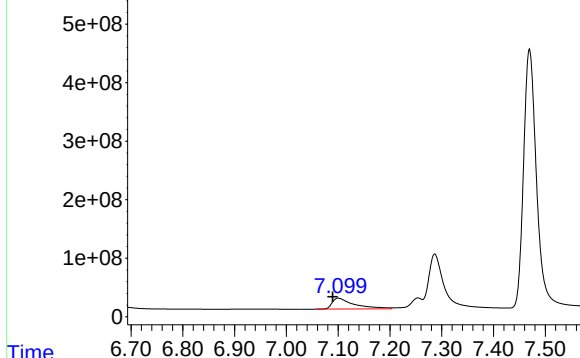
Response_ Signal: PS031679.D\ECD2B.ch

#2 3,5-DICHLOROBENZOIC ACID

R.T.: 6.698 min
Delta R.T.: 0.005 min
Response: 742978426
Conc: 487.21 ng/ml

Time

Response_ Signal: PS031679.D\ECD1A.ch

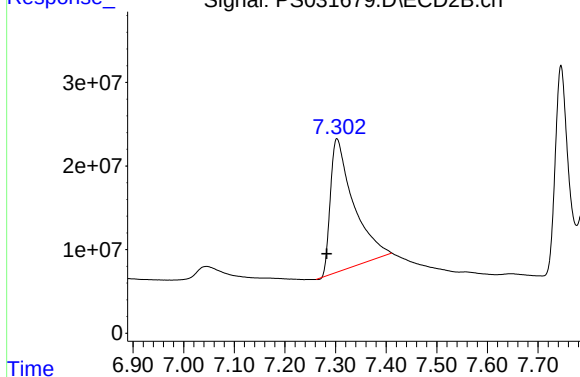


#3 4-Nitrophenol

R.T.: 7.100 min
Delta R.T.: 0.011 min
Response: 548086763
Conc: 496.81 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB169584BSD

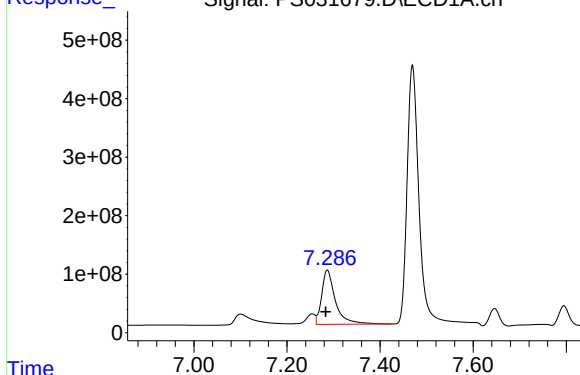
Time Response_ Signal: PS031679.D\ECD2B.ch



#3 4-Nitrophenol

R.T.: 7.303 min
Delta R.T.: 0.020 min
Response: 505528043
Conc: 400.33 ng/ml

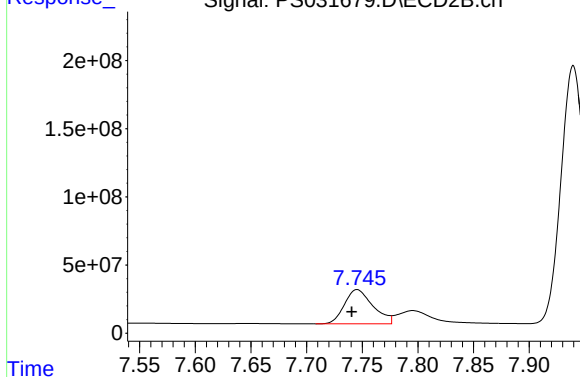
Time Response_ Signal: PS031679.D\ECD1A.ch



#4 2,4-DCAA

R.T.: 7.287 min
Delta R.T.: 0.003 min
Response: 1902591953
Conc: 528.27 ng/ml

Time Response_ Signal: PS031679.D\ECD2B.ch



#4 2,4-DCAA

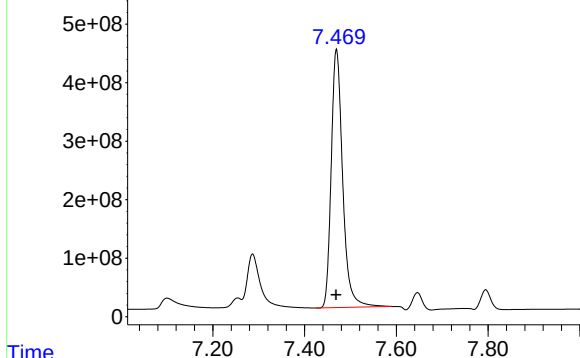
R.T.: 7.745 min
Delta R.T.: 0.005 min
Response: 447553362
Conc: 492.41 ng/ml

Response_ Signal: PS031679.D\ECD1A.ch

#5 DICAMBA

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 7663914947
Conc: 491.38 ng/ml

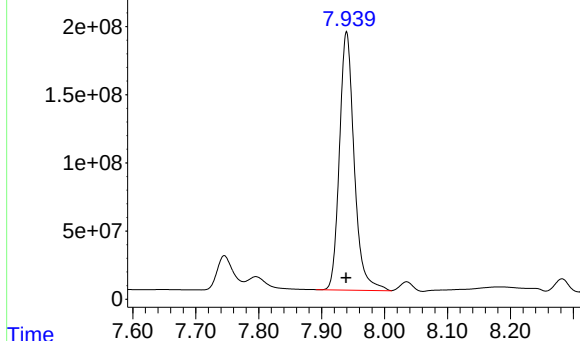
Instrument :
ECD_S
ClientSampleId :
PB169584BSD



Time Response_ Signal: PS031679.D\ECD2B.ch

#5 DICAMBA

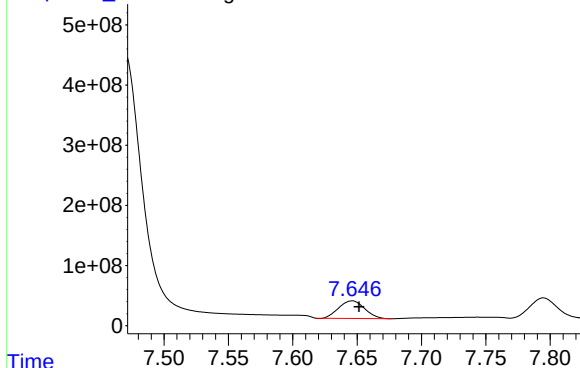
R.T.: 7.940 min
Delta R.T.: 0.000 min
Response: 3083239450
Conc: 473.85 ng/ml



Time Response_ Signal: PS031679.D\ECD1A.ch

#6 MCPP

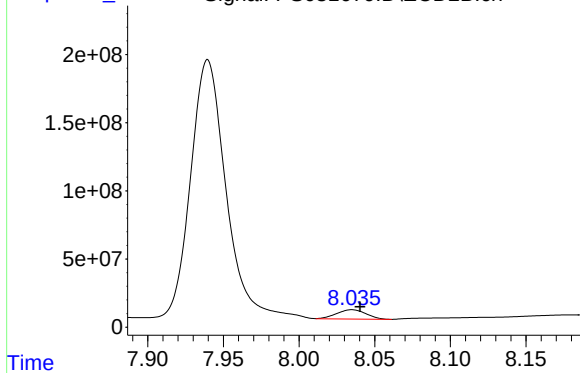
R.T.: 7.646 min
Delta R.T.: -0.005 min
Response: 411201895
Conc: 46.00 ug/ml

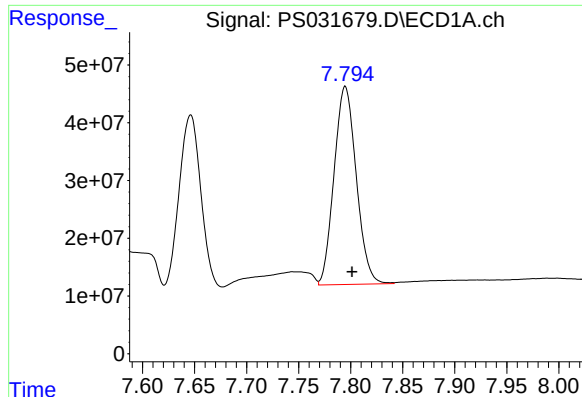


Time Response_ Signal: PS031679.D\ECD2B.ch

#6 MCPP

R.T.: 8.035 min
Delta R.T.: -0.005 min
Response: 92448443
Conc: 49.09 ug/ml

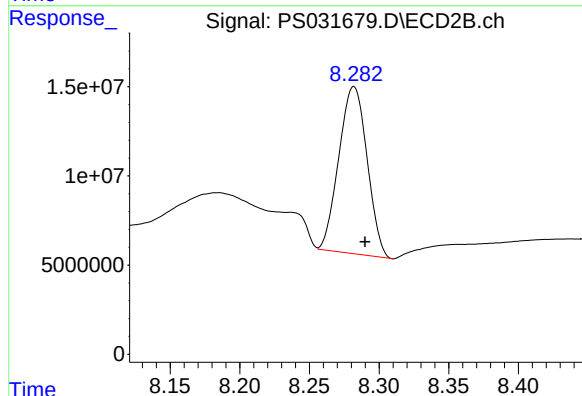




#7 MCPA

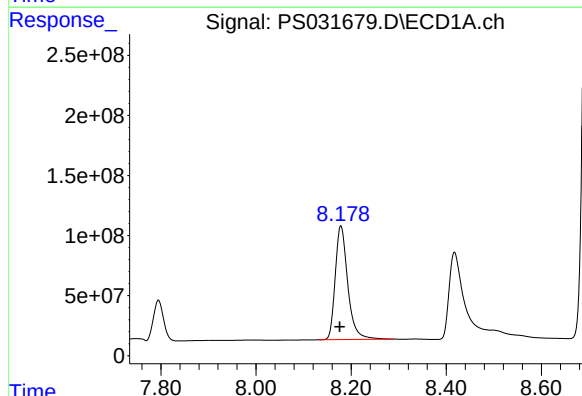
R.T.: 7.795 min
Delta R.T.: -0.007 min
Response: 508550816
Conc: 45.77 ug/ml

Instrument :
ECD_S
ClientSampleId :
PB169584BSD



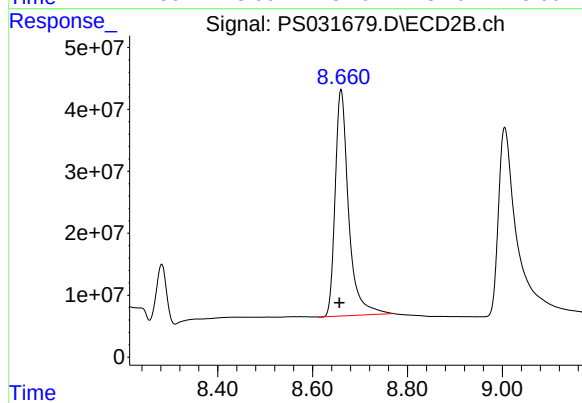
#7 MCPA

R.T.: 8.282 min
Delta R.T.: -0.008 min
Response: 132311676
Conc: 47.23 ug/ml



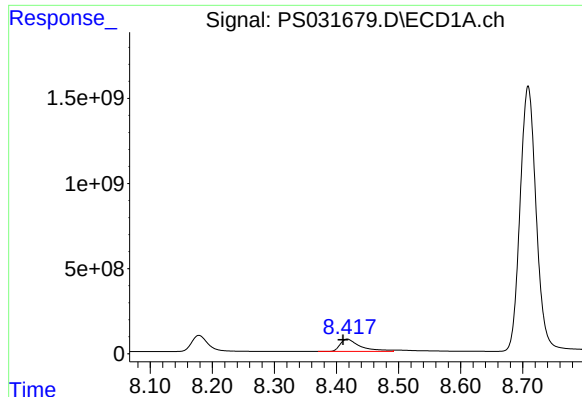
#8 DICHLORPROP

R.T.: 8.178 min
Delta R.T.: 0.002 min
Response: 1732441584
Conc: 486.40 ng/ml



#8 DICHLORPROP

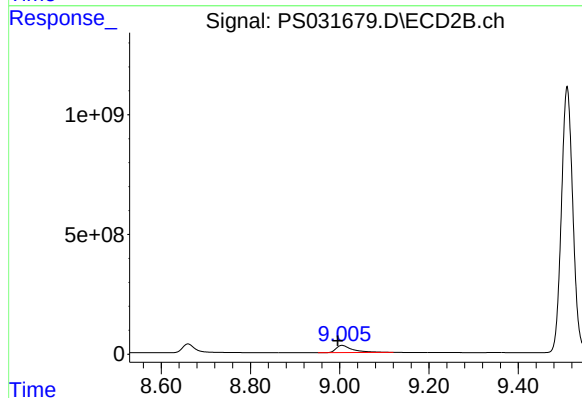
R.T.: 8.660 min
Delta R.T.: 0.003 min
Response: 719638292
Conc: 494.58 ng/ml



#9 2,4-D

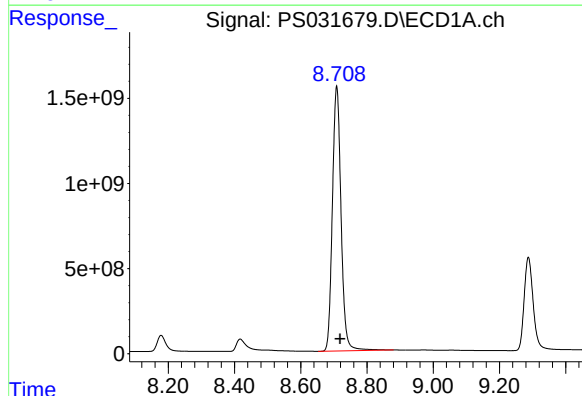
R.T.: 8.417 min
Delta R.T.: 0.007 min
Response: 1637059511
Conc: 477.88 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB169584BSD



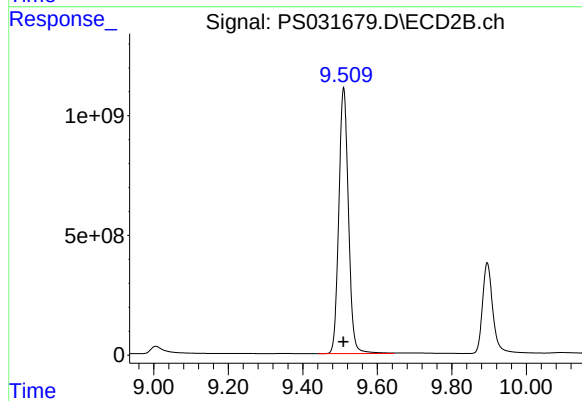
#9 2,4-D

R.T.: 9.005 min
Delta R.T.: 0.009 min
Response: 771682013
Conc: 469.08 ng/ml



#10 Pentachlorophenol

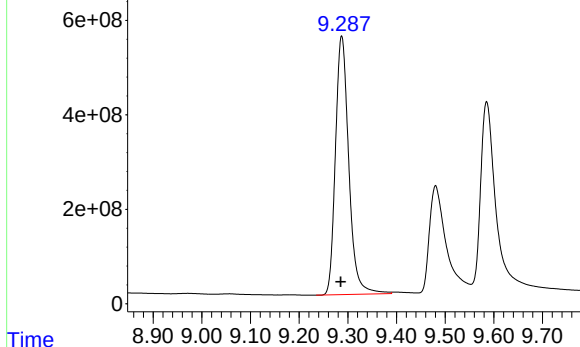
R.T.: 8.709 min
Delta R.T.: -0.010 min
Response: 28210561998
Conc: 531.33 ng/ml



#10 Pentachlorophenol

R.T.: 9.510 min
Delta R.T.: 0.000 min
Response: 19946132324
Conc: 502.54 ng/ml

Response_ Signal: PS031679.D\ECD1A.ch

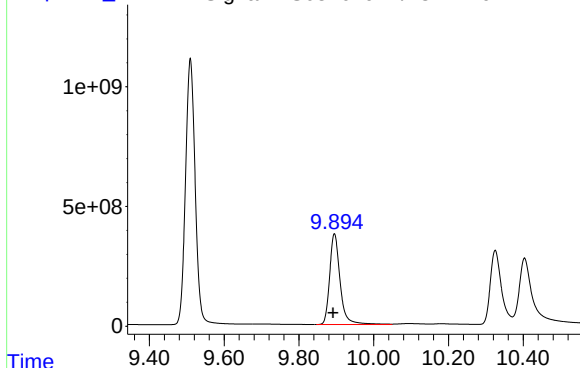


#11 2,4,5-TP (SILVEX)

R.T.: 9.287 min
Delta R.T.: 0.002 min
Response: 10417078982
Conc: 496.67 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB169584BSD

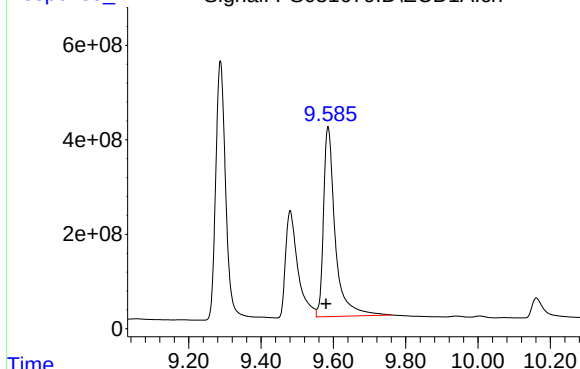
Time Response_ Signal: PS031679.D\ECD2B.ch



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

R.T.: 9.895 min
Delta R.T.: 0.003 min
Response: 7346742030
Conc: 488.02 ng/ml

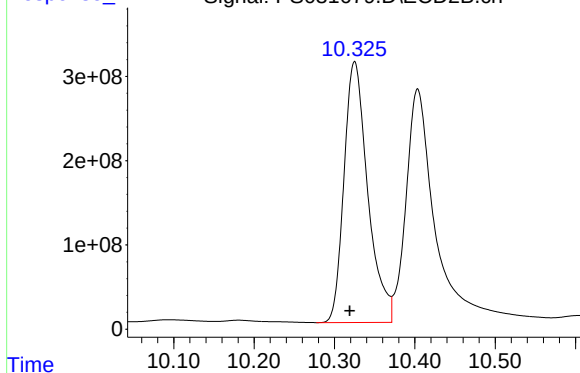
Time Response_ Signal: PS031679.D\ECD1A.ch



#12 2,4,5-T

R.T.: 9.585 min
Delta R.T.: 0.006 min
Response: 9047663145
Conc: 494.46 ng/ml

Time Response_ Signal: PS031679.D\ECD2B.ch



#12 2,4,5-T

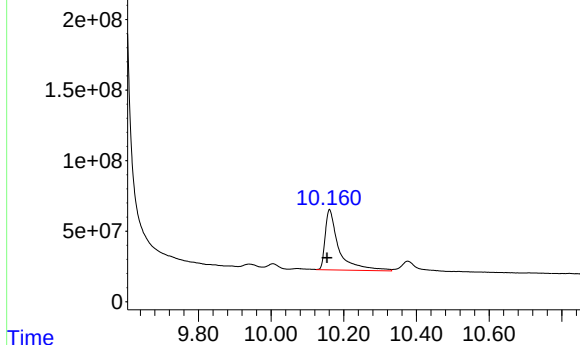
R.T.: 10.325 min
Delta R.T.: 0.006 min
Response: 6375728701
Conc: 473.78 ng/ml

Response_ Signal: PS031679.D\ECD1A.ch

#13 2,4-DB

R.T.: 10.161 min
Delta R.T.: 0.006 min
Response: 1109626814
Conc: 475.67 ng/ml

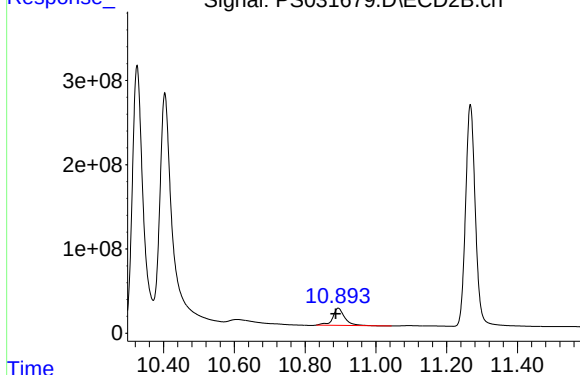
Instrument :
ECD_S
ClientSampleId :
PB169584BSD



Time Response_ Signal: PS031679.D\ECD2B.ch

#13 2,4-DB

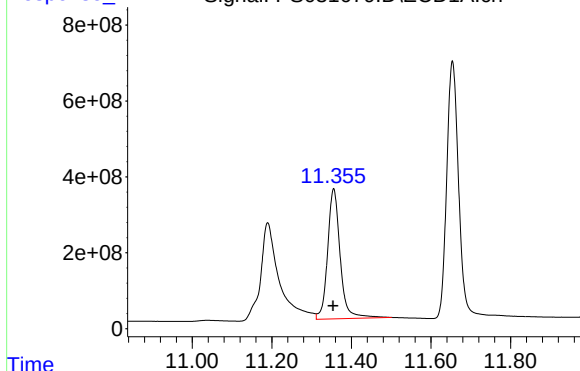
R.T.: 10.894 min
Delta R.T.: 0.007 min
Response: 479712615
Conc: 448.31 ng/ml



Time Response_ Signal: PS031679.D\ECD1A.ch

#14 DINOSEB

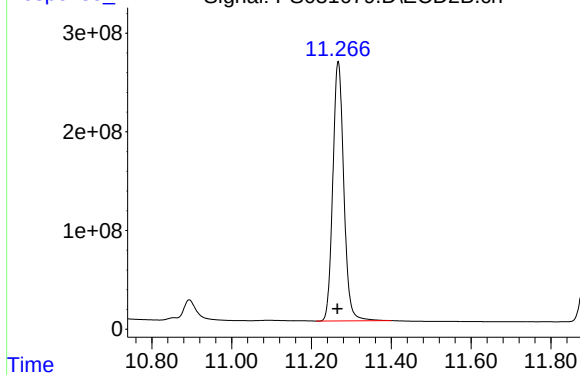
R.T.: 11.356 min
Delta R.T.: 0.001 min
Response: 7510533552
Conc: 520.74 ng/ml

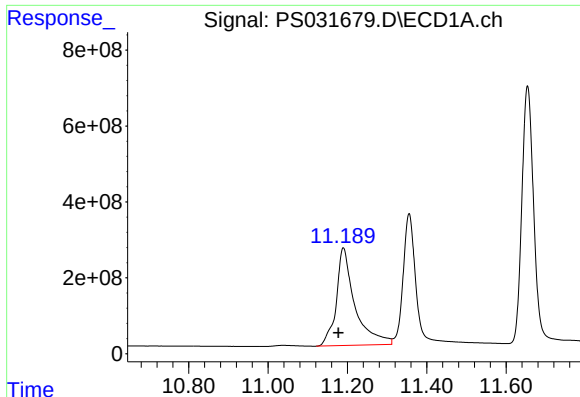


Time Response_ Signal: PS031679.D\ECD2B.ch

#14 DINOSEB

R.T.: 11.267 min
Delta R.T.: 0.002 min
Response: 5014131388
Conc: 515.82 ng/ml

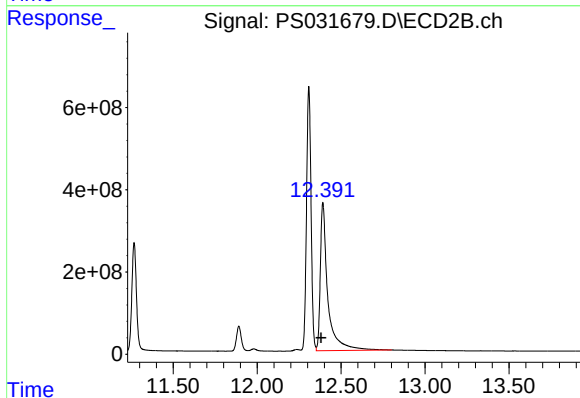




#15 Picloram

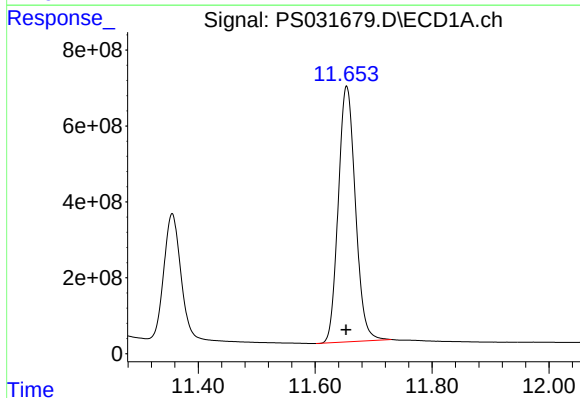
R.T.: 11.190 min
Delta R.T.: 0.012 min
Response: 8391893854
Conc: 465.93 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB169584BSD



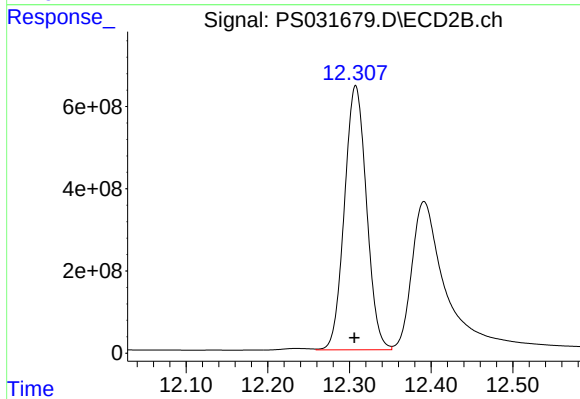
#15 Picloram

R.T.: 12.391 min
Delta R.T.: 0.012 min
Response: 11215802422
Conc: 473.58 ng/ml



#16 DCPA

R.T.: 11.654 min
Delta R.T.: 0.001 min
Response: 13685428521
Conc: 507.81 ng/ml



#16 DCPA

R.T.: 12.308 min
Delta R.T.: 0.002 min
Response: 12061699747
Conc: 500.40 ng/ml

Manual Integration Report

Sequence:	Ps090925	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDICC200	PS031668.D	4-Nitrophenol	Abdul	9/10/2025 8:42:03 AM	mohammad	9/11/2025 1:29:37	Peak Integrated by Software
HSTDICC200	PS031668.D	4-Nitrophenol #2	Abdul	9/10/2025 8:42:03 AM	mohammad	9/11/2025 1:29:37	Peak Integrated by Software
HSTDICC200	PS031668.D	MCPP	Abdul	9/10/2025 8:42:03 AM	mohammad	9/11/2025 1:29:37	Peak Integrated by Software
HSTDICC200	PS031668.D	MCPP #2	Abdul	9/10/2025 8:42:03 AM	mohammad	9/11/2025 1:29:37	Peak Integrated by Software
HSTDICC1000	PS031671.D	DCPA #2	Abdul	9/10/2025 8:41:35 AM	mohammad	9/11/2025 1:29:37	Peak Integrated by Software
HSTDICC1500	PS031672.D	4-Nitrophenol #2	Abdul	9/10/2025 8:41:39 AM	mohammad	9/11/2025 1:29:37	Peak Integrated by Software
HSTDICC1500	PS031672.D	DCPA #2	Abdul	9/10/2025 8:41:39 AM	mohammad	9/11/2025 1:29:37	Peak Integrated by Software
Q3015-17	PS031677.D	2,4-DB	Abdul	9/10/2025 8:41:43 AM	mohammad	9/11/2025 1:29:37	Peak Integrated by Software
Q3015-17	PS031677.D	Dalapon	Abdul	9/10/2025 8:41:43 AM	mohammad	9/11/2025 1:29:37	Peak Integrated by Software
I.BLK	PS031682.D	2,4-DCAA #2	Abdul	9/10/2025 8:41:47 AM	mohammad	9/11/2025 1:29:37	Peak Integrated by Software

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS090925

Review By	Abdul	Review On	9/10/2025 8:43:49 AM
Supervise By	mohammad	Supervise On	9/11/2025 1:29:37 AM
SubDirectory	PS090925	HP Acquire Method	HP Processing Method ps090925 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24553,PP24556,PP24557,PP24558,PP24559,PP24560,PP24921		
CCC Internal Standard/PEM	PP24559		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24923		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS031666.D	09 Sep 2025 10:44	AR\AJ	Ok
2	I.BLK	PS031667.D	09 Sep 2025 11:08	AR\AJ	Ok
3	HSTDICC200	PS031668.D	09 Sep 2025 11:32	AR\AJ	Ok,M
4	HSTDICC500	PS031669.D	09 Sep 2025 11:56	AR\AJ	Ok
5	HSTDICC750	PS031670.D	09 Sep 2025 12:20	AR\AJ	Ok
6	HSTDICC1000	PS031671.D	09 Sep 2025 12:44	AR\AJ	Ok,M
7	HSTDICC1500	PS031672.D	09 Sep 2025 13:08	AR\AJ	Ok,M
8	HSTDICV750	PS031673.D	09 Sep 2025 13:32	AR\AJ	Ok
9	I.BLK	PS031674.D	09 Sep 2025 13:57	AR\AJ	Ok
10	HSTDCCC750	PS031675.D	09 Sep 2025 14:21	AR\AJ	Ok
11	PB169584BL	PS031676.D	09 Sep 2025 14:45	AR\AJ	Ok
12	Q3015-17	PS031677.D	09 Sep 2025 15:09	AR\AJ	Ok,M
13	PB169584BS	PS031678.D	09 Sep 2025 15:33	AR\AJ	Ok
14	PB169584BSD	PS031679.D	09 Sep 2025 15:57	AR\AJ	Ok
15	PB169590BL	PS031680.D	09 Sep 2025 16:22	AR\AJ	Ok
16	PB169590BS	PS031681.D	09 Sep 2025 16:46	AR\AJ	Ok
17	I.BLK	PS031682.D	09 Sep 2025 17:10	AR\AJ	Ok,M
18	HSTDCCC750	PS031683.D	09 Sep 2025 17:34	AR\AJ	Ok

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS090925

Review By	Abdul	Review On	9/10/2025 8:43:49 AM
Supervise By	mohammad	Supervise On	9/11/2025 1:29:37 AM
SubDirectory	PS090925	HP Acquire Method	HP Processing Method ps090925 8151

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24553,PP24556,PP24557,PP24558,PP24559,PP24560,PP24921
CCC	PP24559
Internal Standard/PEM	
ICV/I.BLK	PP24923
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS031666.D	09 Sep 2025 10:44		AR\AJ	Ok
2	I.BLK	I.BLK	PS031667.D	09 Sep 2025 11:08		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS031668.D	09 Sep 2025 11:32		AR\AJ	Ok,M
4	HSTDICC500	HSTDICC500	PS031669.D	09 Sep 2025 11:56		AR\AJ	Ok
5	HSTDICC750	HSTDICC750	PS031670.D	09 Sep 2025 12:20		AR\AJ	Ok
6	HSTDICC1000	HSTDICC1000	PS031671.D	09 Sep 2025 12:44		AR\AJ	Ok,M
7	HSTDICC1500	HSTDICC1500	PS031672.D	09 Sep 2025 13:08		AR\AJ	Ok,M
8	HSTDICV750	ICVPS090925	PS031673.D	09 Sep 2025 13:32		AR\AJ	Ok
9	I.BLK	I.BLK	PS031674.D	09 Sep 2025 13:57		AR\AJ	Ok
10	HSTDCCC750	HSTDCCC750	PS031675.D	09 Sep 2025 14:21		AR\AJ	Ok
11	PB169584BL	PB169584BL	PS031676.D	09 Sep 2025 14:45		AR\AJ	Ok
12	Q3015-17	WP0925-PT-HERB-WP	PS031677.D	09 Sep 2025 15:09		AR\AJ	Ok,M
13	PB169584BS	PB169584BS	PS031678.D	09 Sep 2025 15:33		AR\AJ	Ok
14	PB169584BSD	PB169584BSD	PS031679.D	09 Sep 2025 15:57		AR\AJ	Ok
15	PB169590BL	PB169590BL	PS031680.D	09 Sep 2025 16:22		AR\AJ	Ok
16	PB169590BS	PB169590BS	PS031681.D	09 Sep 2025 16:46		AR\AJ	Ok
17	I.BLK	I.BLK	PS031682.D	09 Sep 2025 17:10		AR\AJ	Ok,M
18	HSTDCCC750	HSTDCCC750	PS031683.D	09 Sep 2025 17:34		AR\AJ	Ok

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS090925

Review By	Abdul	Review On	9/10/2025 8:43:49 AM
Supervise By	mohammad	Supervise On	9/11/2025 1:29:37 AM
SubDirectory	PS090925	HP Acquire Method	HP Processing Method ps090925 8151
STD. NAME	STD REF.#		
Tune/Reschk			
Initial Calibration Stds			
CCC			
Internal Standard/PEM			
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

M : Manual Integration

- 1
- 2
- 3
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- 5
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- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

SOP ID: M8151A-Herbicide-23

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3953

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,7

Extraction Start Date : 09/05/2025

Extraction Start Time : 09:20

Extraction End Date : 09/05/2025

Extraction End Time : 16:00

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: ☒ Separatory Funnel

☐ Continuous Liquid/Liquid

☐ Sonication

☐ Waste Dilution

☐ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5/500 PPM	PP24654
Surrogate	1.0ML	5000 PPB	PP24916
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	E3969
Acidified Na2SO4	N/A	EP2633
NAOH 6N	N/A	EP2606
12N H2SO4	N/A	EP2605
NACL	N/A	M4459
ISO OCTANE	N/A	E3554
Diazomethane	N/A	EP2637
Hexane	N/A	E3968
METHANOL	N/A	V14622
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

Envap ID: NEVAP-02

KD Bath Temperature: N/A

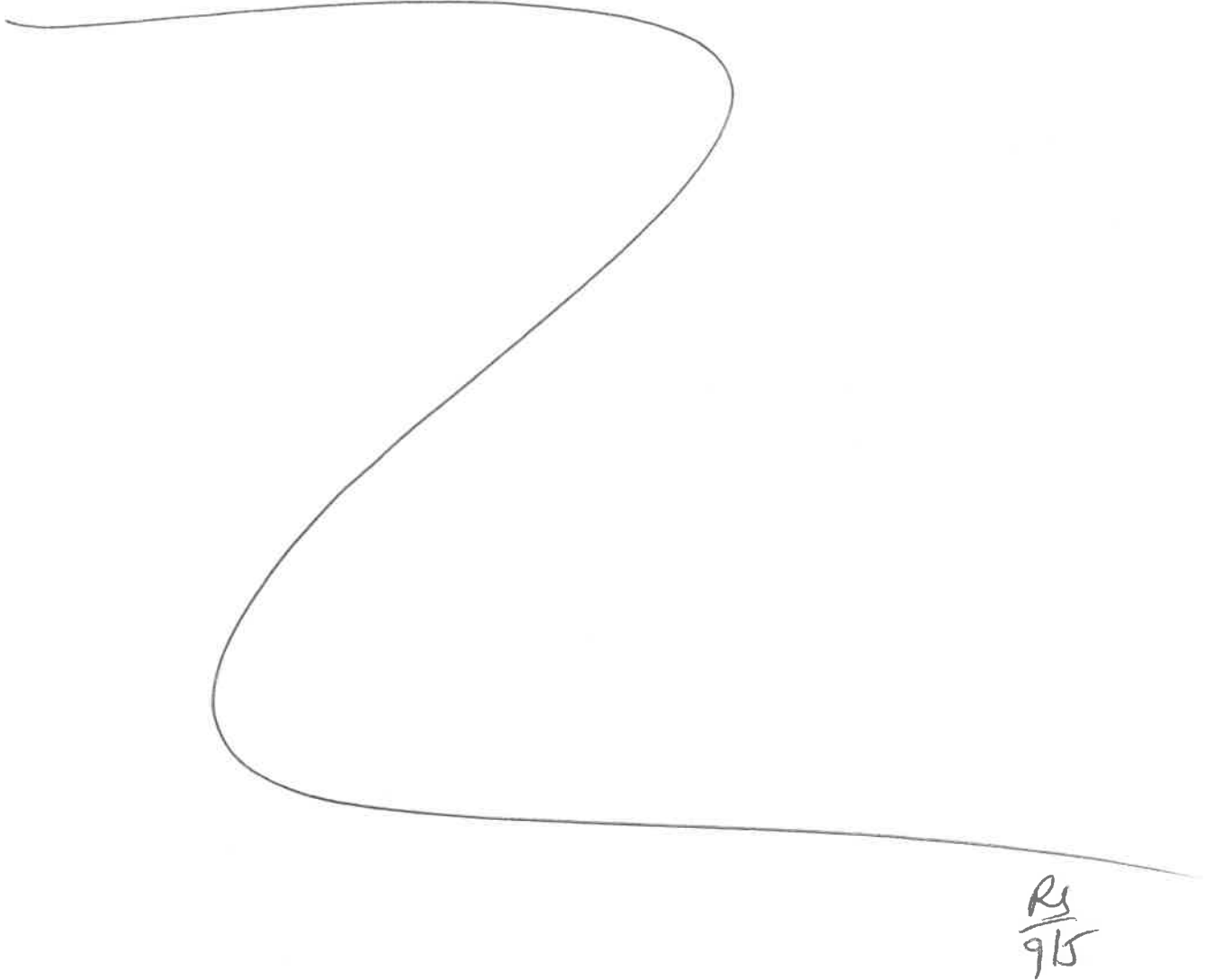
Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
9/5/25	RS (Ext Lab)	JR. Post-Prep Lab
16:05	Preparation Group	Analysis Group

Analytical Method: M8151A-Herbicide-23

Concentration Date: 09/05/2025

Sample ID	Client Sample ID	Test	g / 	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB169584BL	HBLK584	Herbicide	1000	6	RUPESH	ritesh	10			SEP-4
PB169584BS	HLC5584	Herbicide	1000	6	RUPESH	ritesh	10			5
PB169584BS D	HLCSD584	Herbicide	1000	6	RUPESH	ritesh	10			6
Q3015-17	WP0925-PT-HERB-WP	Herbicide group1	1000	6	RUPESH	ritesh	10			7
Q3022-01	1413	Herbicide	1000	6	RUPESH	ritesh	10	R		8



* Extracts relinquished on the same date as received.

164584
9-20

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3022H

WorkList ID : 191710

Department : Extraction

Date : 09-05-2025 09:13:21

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3015-17	WP0925-PT-HERB-WP	Water	Herbicide group1	Cool 4 deg C	ALLI03	QA Of	09/02/2025	8151A
Q3022-01	1413	Water	Herbicide	Cool 4 deg C	PSEG03	D31	09/04/2025	8151A

Date/Time 9/5/25 9:15
Raw Sample Received by: RS (Ext Lab)
Raw Sample Relinquished by: CP

Date/Time 9/5/25 9:40
Raw Sample Received by: CP
Raw Sample Relinquished by: RS (Ext Lab)

Prep Standard - Chemical Standard Summary

Order ID : Q3015
Test : Herbicide group1
Prepbatch ID : PB169584,
Sequence ID/Qc Batch ID: PS090925,

Standard ID :
EP2605,EP2606,EP2633,PP24553,PP24556,PP24557,PP24558,PP24559,PP24560,PP24654,PP24916,PP24921,PP24922,PP24923,

Chemical ID :
E3657,E3875,E3933,E3940,E3952,E3966,E3969,M4459,M6041,M6157,P 11183,P12620,P12630,P12689,P13543,P13544,P13545,P13546,P13547,P14071,P8829,W3112,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3883	12N H2SO4 solution	EP2605	04/21/2025	10/21/2025	RUPESHKUMAR SHAH	None	None	Riteshkumar Patel
04/21/2025								

FROM 333.00000ml of M6041 + 667.00000ml of W3112 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3884	6 N NAOH	EP2606	04/21/2025	10/21/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2 (EX-SC-2)	None	Riteshkumar Patel
04/21/2025								

FROM 1000.00000ml of W3112 + 240.00000gram of E3657 = Final Quantity: 1000.000 ml

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
601	Acidified Sodium Sulphate 2	EP2633	08/15/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2	None	Riteshkumar Patel

FROM 1000.00000ml of E3952 + 150.00000ml of M6157 + 3000.00000ml of E3875 = Final Quantity: 3000.000 gram
(EX-SC-2)

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1321	2/200 PPM Herb Mega Mix	PP24553	05/12/2025	11/05/2025	Abdul Mirza	None	None	Yogesh Patel

FROM 0.20000ml of P8829 + 1.00000ml of P11183 + 1.00000ml of P12620 + 1.00000ml of P12630 + 1.00000ml of P12689 + 95.80000ml of E3933 = Final Quantity: 100.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1456	200 PPB Herb MIX STD	PP24556	05/12/2025	11/05/2025	Abdul Mirza	None	None	Yogesh Patel
								05/22/2025

FROM 0.90000ml of E3933 + 0.10000ml of PP24553 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1455	500 PPB Herb MIX STD	PP24557	05/12/2025	11/05/2025	Abdul Mirza	None	None	Yogesh Patel
								05/22/2025

FROM 0.75000ml of E3933 + 0.25000ml of PP24553 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1453	1000 PPB Herb MIX STD	PP24558	05/12/2025	11/05/2025	Abdul Mirza	None	None	Yogesh Patel
								05/22/2025

FROM 0.50000ml of E3933 + 0.50000ml of PP24553 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1454	750 PPB Herb MIX STD	PP24559	05/12/2025	11/05/2025	Abdul Mirza	None	None	Yogesh Patel
								05/22/2025

FROM 0.25000ml of E3933 + 0.75000ml of PP24558 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1452	1500 PPB HERB MIX STD	PP24560	05/12/2025	11/05/2025	Abdul Mirza	None	None	Yogesh Patel
								05/22/2025

FROM 0.25000ml of E3933 + 0.75000ml of PP24553 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1848	5000/500000 PPB Herbicide Spike (Free Acid)	PP24654	06/18/2025	12/11/2025	Abdul Mirza	None	None	Yogesh Patel
								07/23/2025

FROM 1.25000ml of P13543 + 1.25000ml of P13544 + 1.25000ml of P13545 + 1.25000ml of P13546 + 95.00000ml of E3940 = Final Quantity: 100.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1330	100 PPM NJEPH Spike Solution	PP24916	09/02/2025	03/02/2026	Abdul Mirza	None	None	Yogesh Patel
								09/17/2025

FROM

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1851	2/200 PPM Herb Mega Mix 2nd Source	PP24921	08/07/2025	02/07/2026	Abdul Mirza	None	None	Yogesh Patel
								09/22/2025

FROM 0.50000ml of P14071 + 1.00000ml of P13547 + 48.50000ml of E3966 = Final Quantity: 50.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1854	1000 PPB HERB MIX ICV STD	PP24922	08/07/2025	02/07/2026	Abdul Mirza	None	None	Yogesh Patel
								09/22/2025

FROM 0.50000ml of E3966 + 0.50000ml of PP24921 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1691	750 PPB ICV HERB STD	PP24923	08/07/2025	02/07/2026	Abdul Mirza	None	None	Yogesh Patel
								09/22/2025

FROM 0.25000ml of E3966 + 0.75000ml of PP24922 = Final Quantity: 1.000 ml

CHEMICAL RECEIPT LOG BOOK

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 #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	417203	01/28/2026	07/28/2025 / RUPESH	01/29/2025 / Rajesh	E3875

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)	25C0362005	11/05/2025	05/05/2025 / RUPESH	04/23/2025 / RUPESH	E3933

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)	24H1462005	12/11/2025	06/11/2025 / Rajesh	06/04/2025 / Rajesh	E3940

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)	250419	05/31/2026	07/09/2025 / RUPESH	07/09/2025 / RUPESH	E3952

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)	25C0362005	04/30/2026	08/22/2025 / RUPESH	08/20/2025 / RUPESH	E3966

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)	250419	05/31/2026	09/05/2025 / Riteshkumar	09/04/2025 / Riteshkumar	E3969

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

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)	23D2462010	03/20/2028	08/16/2024 / mohan	08/16/2024 / mohan	M6041

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)	24i1262013	11/07/2025	05/07/2025 / RUPESH	02/18/2025 / Mohan	M6157

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	11/12/2025	05/12/2025 / Abdul	11/01/2021 / Abdul	P11183

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	11/12/2025	05/12/2025 / Abdul	07/03/2023 / Abdul	P12620

CHEMICAL RECEIPT LOG BOOK

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	11/12/2025	05/12/2025 / Abdul	07/03/2023 / Abdul	P12630

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	11/12/2025	05/12/2025 / Abdul	07/24/2023 / Abdul	P12689

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	12/18/2025	06/18/2025 / Abdul	09/24/2024 / Abdul	P13543

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	12/18/2025	06/18/2025 / Abdul	09/24/2024 / Abdul	P13543

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	12/18/2025	06/18/2025 / Abdul	09/24/2024 / Abdul	P13544

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	12/18/2025	06/18/2025 / Abdul	09/24/2024 / Abdul	P13544

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	12/18/2025	06/18/2025 / Abdul	09/24/2024 / Abdul	P13545

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	12/18/2025	06/18/2025 / Abdul	09/24/2024 / Abdul	P13545

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	12/18/2025	06/18/2025 / Abdul	09/24/2024 / Abdul	P13546

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	12/18/2025	06/18/2025 / Abdul	09/24/2024 / Abdul	P13546

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	02/07/2026	08/07/2025 / Abdul	09/24/2024 / Abdul	P13547

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	02/07/2026	08/07/2025 / Abdul	09/24/2024 / Abdul	P13547

CHEMICAL RECEIPT LOG BOOK

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	A0221255	02/07/2026	08/07/2025 / Abdul	06/23/2025 / anahy	P14071

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32254 / Dalapon Methyl Ester, 1000 ug/ml	A0148063	11/12/2025	05/12/2025 / Abdul	08/16/2019 / Stephen	P8829

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 / lwona	07/03/2024 / lwona	W3112

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

avantor™



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,

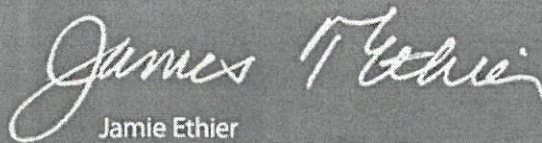
Test	Specification	Result
Assay (NaCl) (by Ag titrn)	$\geq 99.0 \%$	100.3
pH of 5% Solution at 25°C	5.0 – 9.0	6.0
ACS – Insoluble Matter	$\leq 0.005 \%$	< 0.001
Iodide (I)	$\leq 0.002 \%$	< 0.002
Bromide (Br)	$\leq 0.01 \%$	< 0.01
Chlorate and Nitrate (as NO_3)	$\leq 0.003 \%$	< 0.001
ACS – Phosphate (PO_4)	$\leq 5 \text{ ppm}$	< 5
Sulfate (SO_4)	$\leq 0.004 \%$	< 0.004
Barium (Ba)	Passes Test	PT
ACS – Heavy Metals (as Pb)	$\leq 5 \text{ ppm}$	< 5
Iron (Fe)	$\leq 2 \text{ ppm}$	< 2
Calcium (Ca)	$\leq 0.002 \%$	< 0.001
Magnesium (Mg)	$\leq 0.001 \%$	< 0.001
Potassium (K)	$\leq 0.005 \%$	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


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



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:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	$\leq 0.005 \%$	$< 0.005 \%$	PASS
Chloride	$\leq 0.005 \%$	0.002 %	PASS
Heavy Metals	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Iron	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Magnesium	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Mercury	$\leq 0.1 \text{ ppm}$	$< 0.1 \text{ ppm}$	PASS
Nickel	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Nitrogen Compounds	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Phosphate	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Potassium	$\leq 0.02 \%$	$< 0.02 \%$	PASS
Purity	$\geq 97.0 \%$	99.2 %	PASS
Sodium Carbonate	$\leq 1.0 \%$	0.5 %	PASS
Sulfate	$\leq 0.003 \%$	$< 0.003 \%$	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

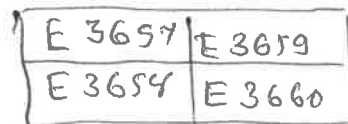
This document has been electronically produced and is valid without a signature.

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.





**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MÉXICO
CP 64070
TEL +52 81 13 52 67 67
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER:	6399	RELEASE DATE:	MAY/23/2024
LOT NUMBER :	417203		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.8 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.2
Insoluble matter	Max. 0.01%	0.001 %
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%	0.001 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.001 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.2 %
Retained on US Standard No. 60 sieve	Min. 94%	96.2 %
Through US Standard No. 60 sieve	Max. 5%	3.5 %
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.

RE-02-01, Ed. 3

E 3875

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

avantor™



Material No.: 9262-03
Batch No.: 25C0362005
Manufactured Date: 2025-01-29
Expiration Date: 2026-04-30
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	≤ 5	5
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	100 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	$< 0.01 \%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3933

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

Avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) 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

Rec'd by RP on 6/11/25

E3940

Jamie Croak

Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by Intertek Global Certificate Number. CERT-0120633

Catalogue Number	E198
Lot Number	250419
Description	ETHYL ETHER, HPLC GRADE
CAS Number	60-29-7
Quality Test/Release Date	02/Jun/2025
Suggested retest date	31/May/2026
Country of Origin	Mexico
Declaration of Origin	Organic - synthetic
BSE/TSE	This product was derived from synthetic raw materials and the manufacturing process excluded contamination with any animal products.

Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid free of suspended matter
ASSAY	%	>= 99	99.95
CARBONYL COMPOUNDS	%	<= 0.001	<0.001
COLOR	APHA	<= 10	5
DENSITY AT 25 DEGREES C	GM/ML	Inclusive Between 0.708 - 0.710	0.710
EVAPORATION RESIDUE	ppm	<= 5	0.1
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
OPTICAL ABS AT 218 NM	ABSORBANCE UNITS	<= 1.00	0.15
OPTICAL ABS AT 254 NM	ABSORBANCE UNITS	<= 0.07	0.03
OPTICAL ABS AT 280 NM	ABSORBANCE UNITS	<= 0.02	0.003
OPTICAL ABS AT 350 NM	ABSORBANCE UNITS	<= 0.01	<0.001
PEROXIDE	ppm	<= 5	<1
PRESERVATIVE - ETHANOL	%	Inclusive Between 1.5 - 2.5	1.6
REFRACTIVE INDEX @ 25 DEG C		Inclusive Between 1.3490 - 1.3520	1.3498
SUBSTANCES DARKENED BY H2SO4	PASS/FAIL	= PASS TEST	PASS TEST
TITRATABLE ACID	MEQ/G	<= 0.0002	<0.00003
WATER (H2O)	%	<= 0.01	0.008



Matthew Micek
QC Supervisor

Received on 7/9/25
E3952

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third-party data or information associated with the product. Products are for research use or further manufacturing. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis



Material No.: 9262-03
Batch No.: 25C0362005
Manufactured Date: 2025-01-29
Expiration Date: 2026-04-30
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	≤ 5	5
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5\%$	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95\%$	100 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05\%$	$<0.01\%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3966



Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

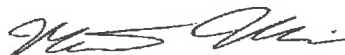
100 Matsonford Rd, Suite 200, Radnor, PA, 19087 U.S.A. Phone 610.386.1700

CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by Intertek Global Certificate Number. CERT-0120633

Catalogue Number	E198
Lot Number	250419
Description	ETHYL ETHER, HPLC GRADE
CAS Number	60-29-7
Quality Test/Release Date	02/Jun/2025
Suggested retest date	31/May/2026
Country of Origin	Mexico
Declaration of Origin	Organic - synthetic
BSE/TSE	This product was derived from synthetic raw materials and the manufacturing process excluded contamination with any animal products.

Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid free of suspended matter
ASSAY	%	>= 99	99.95
CARBONYL COMPOUNDS	%	<= 0.001	<0.001
COLOR	APHA	<= 10	5
DENSITY AT 25 DEGREES C	GM/ML	Inclusive Between 0.708 - 0.710	0.710
EVAPORATION RESIDUE	ppm	<= 5	0.1
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
OPTICAL ABS AT 218 NM	ABSORBANCE UNITS	<= 1.00	0.15
OPTICAL ABS AT 254 NM	ABSORBANCE UNITS	<= 0.07	0.03
OPTICAL ABS AT 280 NM	ABSORBANCE UNITS	<= 0.02	0.003
OPTICAL ABS AT 350 NM	ABSORBANCE UNITS	<= 0.01	<0.001
PEROXIDE	ppm	<= 5	<1
PRESERVATIVE - ETHANOL	%	Inclusive Between 1.5 - 2.5	1.6
REFRACTIVE INDEX @ 25 DEG C		Inclusive Between 1.3490 - 1.3520	1.3498
SUBSTANCES DARKENED BY H2SO4	PASS/FAIL	= PASS TEST	PASS TEST
TITRATABLE ACID	MEQ/G	<= 0.0002	<0.00003
WATER (H2O)	%	<= 0.01	0.008



Matthew Micek
QC Supervisor

E 3969

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third-party data or information associated with the product. Products are for research use or further manufacturing. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™



M 6041-4b
MS

Material No.: 9673-33
Batch No.: 23D2462010
Manufactured Date: 2023-03-22
Retest Date: 2028-03-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H ₂ SO ₄)	95.0 – 98.0 %	96.1 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Substances Reducing Permanganate (as SO ₂)	≤ 2 ppm	< 2 ppm
Ammonium (NH ₄)	≤ 1 ppm	1 ppm
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO ₃)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO ₄)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (Al)	≤ 30.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	8.5 ppb
Trace Impurities – Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gold (Au)	≤ 10.0 ppb	0.5 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities – Iron (Fe)	≤ 50.0 ppb	1.3 ppb
Trace Impurities – Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.8 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Nickel (Ni)	≤ 2.0 ppb	0.3 ppb
Trace Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	31.5 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

Sulfuric Acid
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For Trace Metal Analysis
Low Selenium

 **avantor™**

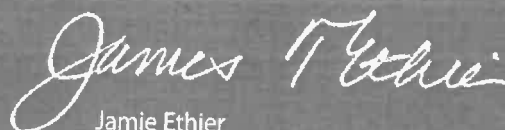


Material No.: 9673-33
Batch No.: 23D2462010

Test	Specification	Result
Trace Impurities – Sodium (Na)	≤ 500.0 ppb	5.4 ppb
Trace Impurities – Strontium (Sr)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.4 ppb

For Laboratory, Research, or Manufacturing Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Ethier
Vice President Global Quality

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™



MG157
MS

Material No.: 9673-33

Batch No.: 24I1262013

Manufactured Date: 2024-08-07

Retest Date: 2029-08-06

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H ₂ SO ₄)	95.0 – 98.0 %	96.2 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	<1 ppm
ACS – Substances Reducing Permanganate(as SO ₂)	<= 2 ppm	<2 ppm
Ammonium (NH ₄)	<= 1 ppm	<1 ppm
Chloride (Cl)	<= 0.1 ppm	<0.1 ppm
Nitrate (NO ₃)	<= 0.2 ppm	0.1 ppm
Phosphate (PO ₄)	<= 0.5 ppm	<0.1 ppm
Trace Impurities – Aluminum (Al)	<= 30.0 ppb	<5.0 ppb
Arsenic & Antimony (as As)	<= 4.0 ppb	<2.0 ppb
Trace Impurities – Boron (B)	<= 10.0 ppb	<5.0 ppb
Trace Impurities – Cadmium (Cd)	<= 2.0 ppb	<1.0 ppb
Trace Impurities – Chromium (Cr)	<= 6.0 ppb	<1.0 ppb
Trace Impurities – Cobalt (Co)	<= 0.5 ppb	<0.3 ppb
Trace Impurities – Copper (Cu)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Gold (Au)	<= 10.0 ppb	<5.0 ppb
Heavy Metals (as Pb)	<= 500.0 ppb	<100.0 ppb
Trace Impurities – Iron (Fe)	<= 50.0 ppb	<1.0 ppb
Trace Impurities – Lead (Pb)	<= 0.5 ppb	<0.5 ppb
Trace Impurities – Magnesium (Mg)	<= 7.0 ppb	<1.0 ppb
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	<0.1 ppb
Trace Impurities – Nickel (Ni)	<= 2.0 ppb	<0.3 ppb
Trace Impurities – Potassium (K)	<= 500.0 ppb	<10.0 ppb
Trace Impurities – Selenium (Se)	<= 50.0 ppb	7.2 ppb
Trace Impurities – Silicon (Si)	<= 100.0 ppb	12.8 ppb
Trace Impurities – Silver (Ag)	<= 1.0 ppb	<1.0 ppb

Sulfuric Acid
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For Trace Metal Analysis
Low Selenium

 **avantor**™



Material No.: 9673-33

Batch No.: 24I1262013

Test	Specification	Result
Trace Impurities – Sodium (Na)	≤ 500.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 5.0 ppb	< 1.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	1.1 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	< 1.0 ppb

For Laboratory, Research, or Manufacturing Use

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak
Director Quality Operations, Bioscience Production

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:

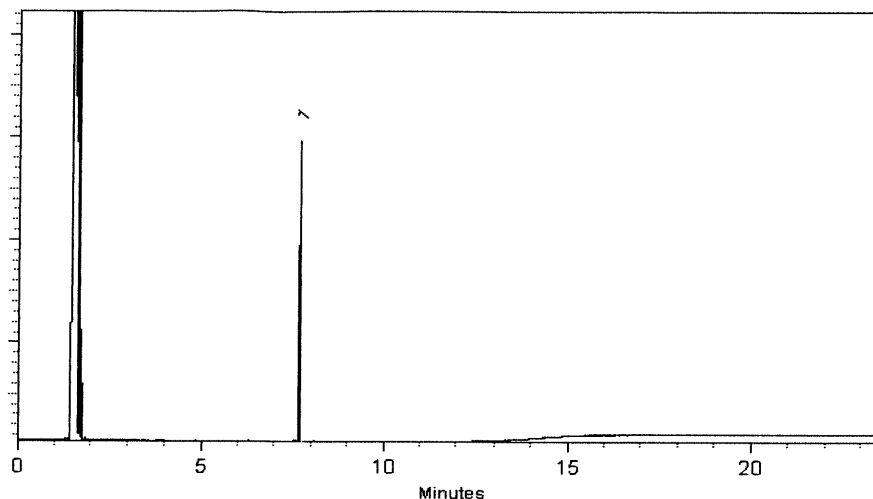
250°C

Det. Temp:

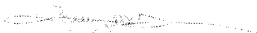
330°C

Det. Type:

FID

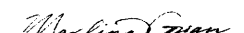


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Katelyn McGinnis - Operations Tech I

Date Mixed: 28-May-2021

Balance: B345965662


Marlene Cowan - Operations Tech I

Date Passed: 02-Jun-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

1911177
70
P 111 86
AR
11/02/21



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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Certificate of Analysis



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%

P11177
↓
P11186
—
AR
01/02/21



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Certificate of Analysis



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. : 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

P12616 / (5)
↓
P12620
✓ *Paul* = 7/5/2023

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	µg/mL	Gravimetric	
			+/- 6.7507	µg/mL	Unstressed	
			+/- 6.7507	µg/mL	Stressed	
2	4-Nitroanisole CAS # 100-17-4 (Lot 24765/7) Purity 99%	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric	
			+/- 6.7507	µg/mL	Unstressed	
			+/- 6.7507	µg/mL	Stressed	
3	Pentachloroanisole CAS # 1825-21-4 (Lot 7921100) Purity 99%	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric	
			+/- 6.7507	µg/mL	Unstressed	
			+/- 6.7507	µg/mL	Stressed	
4	Chloramben methyl ester CAS # 7286-84-2 (Lot 6487100) Purity 98%	199.9 µg/mL	+/- 1.4176	µg/mL	Gravimetric	
			+/- 6.7480	µg/mL	Unstressed	
			+/- 6.7480	µg/mL	Stressed	
5	Bentazon methyl ester CAS # 61592-45-8 (Lot 817100) Purity 99%	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric	
			+/- 6.7507	µg/mL	Unstressed	
			+/- 6.7507	µg/mL	Stressed	
6	Picloram methyl ester CAS # 14143-55-6 (Lot 386-21B) Purity 98%	201.9 µg/mL	+/- 1.4315	µg/mL	Gravimetric	
			+/- 6.8141	µg/mL	Unstressed	
			+/- 6.8141	µg/mL	Stressed	
7	DCPA methyl ester (Chlorthal-dimethyl) CAS # 1861-32-1 (Lot 8008700) Purity 99%	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric	
			+/- 6.7507	µg/mL	Unstressed	
			+/- 6.7507	µg/mL	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)

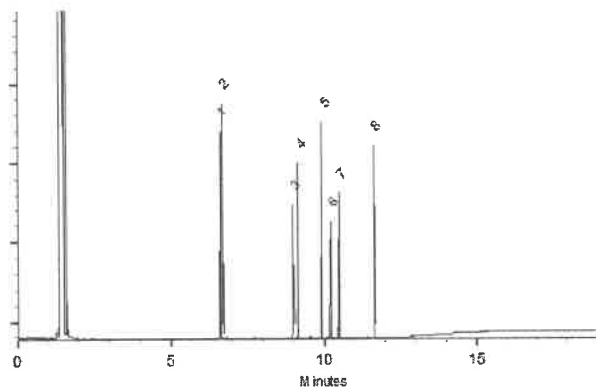
Carrier Gas:
 hydrogen-constant pressure 10 psi.

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 Maje

Date Mixed: 14-Nov-2019 **Balance:** 1128353505

Justine Albertson
 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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis chromatographic plus



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. : 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

P12626 / 5
P12630
7/5/2023

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:

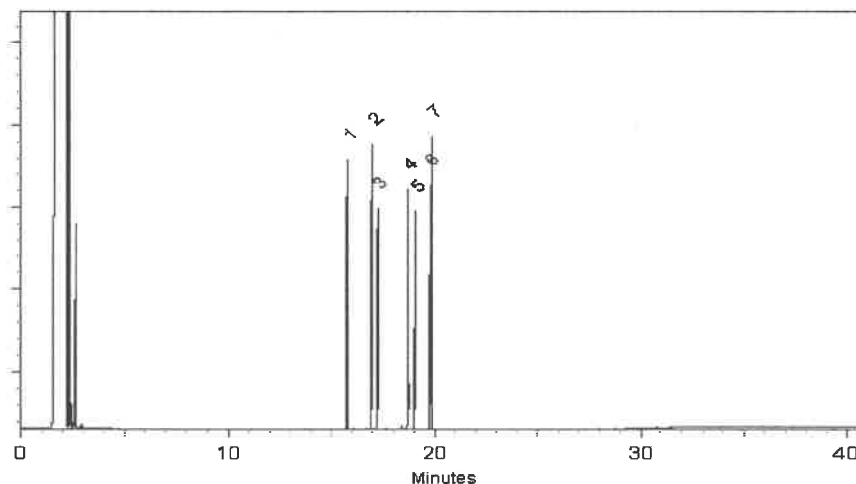
FID

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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis chromatographic plus



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. : 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

P 12685 / (S)
P 12689
RAU= 7/24/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	MCP (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:

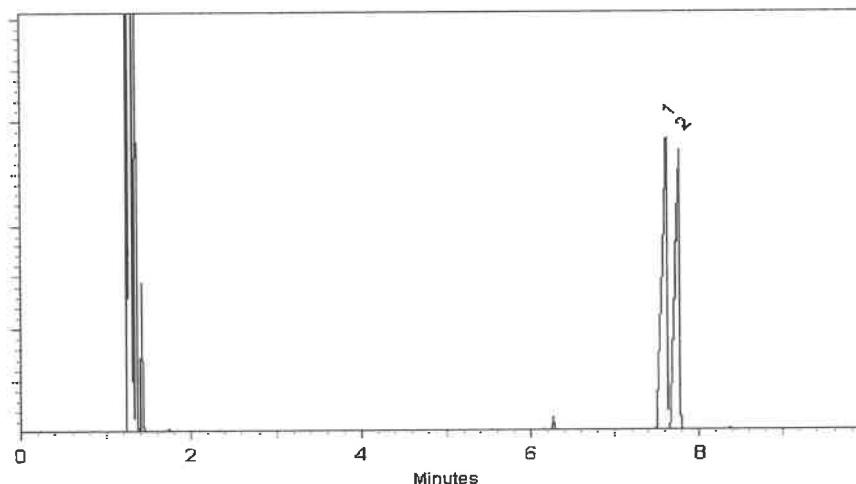
FID

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


Jennifer Pollino - Operations Tech III - ARM QC

Date Mixed: 12-Jul-2023

Balance Serial # B442140311

Date Passed: 19-Jul-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

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.

Page: 1 of 2

CSD-QA-015.2

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P13561
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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:

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Page: 1 of 2

CSD-QA-015.2

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P13561
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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.

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Page: 1 of 2

CSD-QA-015.2

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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
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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:

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Page: 1 of 2

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P13541
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P13561
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9/25/2024

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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
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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:

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Page: 1 of 2

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P13541
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110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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.:** A0221255

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 : October 31, 2031 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

P14064
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P14073 } AC
6/23/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-Dichlorophenyl acetic acid methyl ester	55954-23-9	13054200	99%	202.0 µg/mL	+/- 3.4272

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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Certificate of Analysis



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. : 32254 **Lot No.:** A0148063
Description : Dalapon methyl ester Standard
Dalapon methyl ester 1000µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2026 **Storage:** 10°C or colder
Handling: This product is photosensitive.

Received by
SG on 8/16/19
P8828
P8826

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Dalapon methyl ester	999.6 µg/mL	+/- 10.0697 µg/mL Gravimetric
	CAS # 17640-02-7 (Lot 1764600)		+/- 34.4896 µg/mL Unstressed
	Purity 98%		+/- 34.4896 µg/mL Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

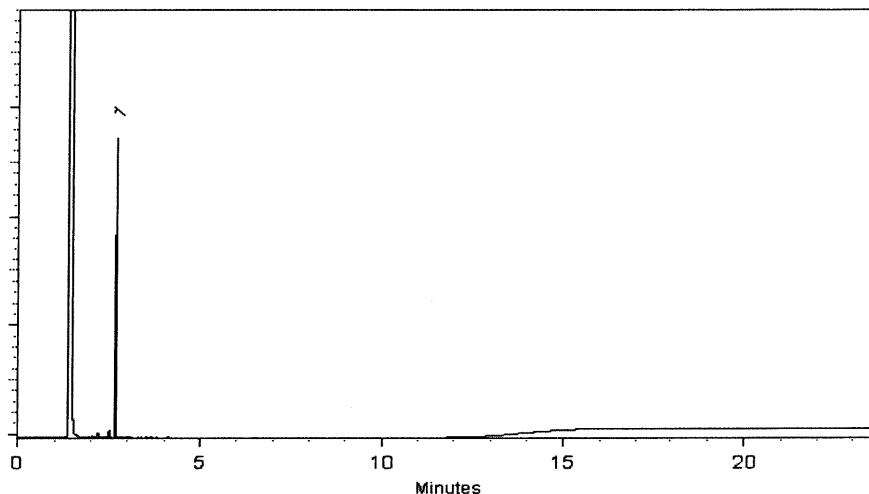
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

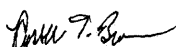
Inj. Temp:
250°C

Det. Temp:
330°C

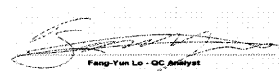
Det. Type:
FID



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.


Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2019 **Balance:** 1127510105


Feng-Yin Lo - QC Analyst

Date Passed: 15-Apr-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Packing List

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Fax: +1-303-940-0043
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Date	Order #
09/02/2025	333290



Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: *ST* 9/4/2025
9:25

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-3159	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
			PT-TMSET-WP	WP Trace Metals Set : (TM1, HG and SNTI)		
1	1	0	PT-TM1-WP	WP Trace Metals 1	WP0925	8270-04
1	1	0	PT-HG-WP	WP Mercury	WP0925	8270-05
1	1	0	PT-SNTI-WP	WP Tin & Titanium	WP0925	8270-38
1	1	0	PT-CR6-WP	WP Hexavalent Chromium	WP0925	8270-06
1	1	0	PT-DEM-WP	WP Demand	WP0925	8270-07
			PT-MINSET-WP	WP Minerals Set : (MIN1, MIN2 and COND)		
1	1	0	PT-MIN1-WP	WP Minerals 1 Only	WP0925	8270-08
1	1	0	PT-MIN2-WP	WP Minerals 2 Only	WP0925	8270-102
1	1	0	PT-COND-WP	WP Conductivity Only	WP0925	8270-72
1	1	0	PT-COND-WP	WP Conductivity Only	WP0925	8270-72
1	1	0	PT-SOL-WP	WP Solids	WP0925	8270-09
			PT-NUTSET-WP	WP Nutrients Set : (NUT1, NUT2 and NUT3)		
1	1	0	PT-NUT1-WP	WP NUT1 Simple Nutrients Only	WP0925	8270-10
1	1	0	PT-NUT2-WP	WP NUT2 - Complex Nutrients	WP0925	8270-11
1	1	0	PT-NUT3-WP	WP NUT3 - Nitrite Only	WP0925	8270-69
1	1	0	PT-OGR1L-WP	WP Oil and Grease 1L	WP0925	8270-103
1	1	0	PT-CL-WP	WP Residual Chlorine	WP0925	8270-13
1	1	0	PT-PH-WP	WP pH	WP0925	8270-15
1	1	0	PT-CN-WP	WP Cyanide	WP0925	8270-14

6390 Joyce Dr., #100
Golden, CO 80403

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Date	Order #
09/02/2025	333290



Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ
9/4/2025
9:25

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-3159	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-PHEN-WP	WP Phenolics	WP0925	8270-16
1	1	0	PT-S2-WP	WP Sulfide	WP0925	8270-22
1	1	0	PT-SSOL-WP	WP Settleable Solids	WP0925	8270-17
1	1	0	PT-VSOL-WP	WP Volatile Solids	WP0925	8270-18
1	1	0	PT-TURB-WP	WP Turbidity	WP0925	8270-20
1	1	0	PT-SIO2-WP	WP Silica	WP0925	8270-21
1	1	0	PT-COL-WP	WP Color	WP0925	8270-51
1	1	0	PT-VOA-WP	WP Volatiles	WP0925	8270-26
1	1	0	PT-BN-WP	WP Base Neutrals	WP0925	8270-27
1	1	0	PT-ACIDS-WP	WP Acids	WP0925	8270-28
1	1	0	PT-PEST-WP	WP Pesticides	WP0925	8270-29
1	1	0	PT-CHLR-WP	WP Chlordane	WP0925	8270-30
1	1	0	PT-TXP-WP	WP Toxaphene	WP0925	8270-31
1	1	0	PT-PCBW-WP	WP PCBs in Water	WP0925	8270-32
1	1	0	PT-HERB-WP	WP Herbicides	WP0925	8270-36
1	1	0	RR-TPH1L-WP	WP TPH 1L	R41815	R41815-104
1	1	0	RR-PAH-WP	WP PAH-Low Level	R41815	R41815-37
1	1	0	RR-GAS-WP	WP Gasoline Range Organics	R41815	R41815-62
1	1	0	RR-DIES-WP	WP Diesel Range Organics	R41815	R41815-63
1	1	0	RR-8011-WP	WP EDB/DBCP/TCP	R41815	R41815-98

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www.phenova.com/home/termsandsale

Date	Order #
09/05/2025	340092



Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ
9/9/2025 12:20

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-3159	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	RR-TRIAZINE-WP	WP Triazine Pesticides	R41854	R41854-108

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312