

DATA PACKAGE

GC SEMI-VOLATILES

PROJECT NAME : RFP 905

WESTON SOLUTIONS, INC.
1090 King Georges Post Road
Suite 201
Edison, NJ - 08837-3703
Phone No: 732-585-4410

ORDER ID : Q1421
ATTENTION : Smita Sumbaly



Laboratory Certification ID # 20012



1) SPLP PESTICIDE 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 SPLP Pesticide	13
9.1) Deuterated Monitoring Compound Summary	14
9.2) MS/MSD Summary	16
9.3) LCS/LCSD Summary	18
9.4) Method Blank Summary	19
10) Sample Data	20
10.1) PB166896TB	21
10.2) P001-CLAY-CF01-01	26
10.3) P001-CLAY-CF01-02	31
10.4) P001-CLAY-CF01-02RE	36
10.5) P001-CLAY-CF02-01	41
11) Calibration Data Summary	46
11.1) Initial Calibration Data	47
11.1.1) PL022125	47
11.2) Continued Calibration Data	149
11.2.1) PL094434.D	149
11.2.2) PL094444.D	167
11.2.3) PL094460.D	185
11.2.4) PL094463.D	203
11.2.5) PEM Files	221
11.3) RESCHK Data	251
11.4) Analytical Seq	259
12) Compound Detection Summary	261
13) QC Sample Data	267
13.1) Method Blank Data	268
13.2) PIBLK Data	273
13.3) LCS Data	298

Table Of Contents for Q1421

13.4) MS Data	314
13.5) MSD Data	330
14) Manual Integration	346
15) Analytical Runlogs	352
16) Extraction Logs	365
16.1) PB166861.pdf	365
16.2) PB166861IC.pdf	370
16.3) PB166896.pdf	371
16.4) PB166896IC.pdf	373
17) Standard Prep Logs	374
18) Shipping Document	418
18.1) Chain Of Custody	419
18.2) ROC	422
18.3) Lab Certificate	424
18.4) Internal COC	425

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

Cover Page

Order ID : Q1421

Project ID : RFP 905

Client : Weston Solutions, Inc.

Lab Sample Number

Q1421-01
Q1421-02
Q1421-03
Q1421-04
Q1421-05
Q1421-06
Q1421-07
Q1421-08
Q1421-09
Q1421-10

Client Sample Number

P001-CLAY-CF01-01
P001-CLAY-CF01-01MS
P001-CLAY-CF01-01MSD
P001-CLAY-CF01-01
P001-CLAY-CF01-01MS
P001-CLAY-CF01-01MSD
P001-CLAY-CF01-02
P001-CLAY-CF01-02
P001-CLAY-CF02-01
P001-CLAY-CF02-01

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 : _____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 10:19 am, Mar 12, 2025

Date: 3/7/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Weston Solutions, Inc.
Project Name: RFP 905
Project # N/A
Chemtech Project # Q1421
Test Name: SPLP Pesticide

A. Number of Samples and Date of Receipt:

10 Solid samples were received on 02/24/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH, Mercury, Metals ICP-TAL, METALS TAL+CN, PCB, Pesticide-TCL, SPLP BNA, SPLP Cyanide, SPLP Extraction, SPLP ICP Metals, SPLP Mercury, SPLP PCB, SPLP Pesticide, SPLP VOA, SPLP ZHE Ext, SVOC-TCL BNA -20 and VOC-TCLVOA-10. This data package contains results for SPLP Pesticide.

C. Analytical Techniques:

The analysis was performed on instrument ECD_L. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df.; Catalog # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017- 11. The analysis of SPLP Pesticides was based on method 8081B and extraction was done based on method 3541.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for P001-CLAY-CF01-01 [Tetrachloro-m-xylene(2) - 127%], P001-CLAY-CF01-01MS [Tetrachloro-m-xylene(1) - 132%, Tetrachloro-m-xylene(2) - 127%], P001-CLAY-CF01-01MSD [Tetrachloro-m-xylene(1) - 129%, Tetrachloro-m-xylene(2) - 129%], Surrogate failure confirmed with the Original sample, P001-CLAY-CF01-02 [Tetrachloro-m-xylene(1) - 136%, Tetrachloro-m-xylene(2) - 135%], P001-CLAY-CF01-02RE [Tetrachloro-m-xylene(1) - 132% and Tetrachloro-m-xylene(2) - 134%] the failure sample in surrogates with both columns was reanalyzed to confirm the results as per method and reported in the data.

The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds .

The MSD recoveries met the acceptable requirements

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

E. Additional Comments:

F. Calculation for Concentration in Water Samples:

$$\text{Concentration ug/L} = \frac{(A_x) (V_t) (DF) (GPC)}{(CF) (V_o) (V_i)}$$

Where,

A_x = Response (peak area or height) of the compound to be measured.

CF = Mean Calibration Factor from the initial calibration (area/ng).

V_o = Volume of water extracted in mL.

V_i = Volume of extract injected in uL.

V_t = Volume of the concentrated extract in uL

GPC = $\frac{V_{in}}{V_{out}}$ = GPC factor (If no GPC is performed, GPC=1)

V_{in} = Volume of extract loaded onto GPC column.

V_{out} = Volume of extract collected after GPC cleanup.

DF = Dilution Factor.

G. Manual Integration Comments:

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

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

Signature _____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 10:19 am, Mar 12, 2025

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



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

GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Q1421

MATRIX: Solid

METHOD: 8081B/3541

	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. The Surrogate recoveries met the acceptable criteria except for P001-CLAY-CF01-01 [Tetrachloro-m-xylene(2) - 127%], P001-CLAY-CF01-01MS [Tetrachloro-m-xylene(1) - 132%, Tetrachloro-m-xylene(2) - 127%], P001-CLAY-CF01-01MSD [Tetrachloro-m-xylene(1) - 129%, Tetrachloro-m-xylene(2) - 129%], Surrogate failure confirmed with the Original sample, P001-CLAY-CF01-02 [Tetrachloro-m-xylene(1) - 136%, Tetrachloro-m-xylene(2) - 135%], P001-CLAY-CF01-02RE [Tetrachloro-m-xylene(1) - 132% and Tetrachloro-m-xylene(2) - 134%] the failure sample in surrogates with both columns was reanalyzed to confirm the results as per method and reported in the data.		✓	
6. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The MS recoveries met the requirements for all compounds . The MSD recoveries met the acceptable requirements . The Blank Spike met requirements for all samples . The RPD met criteria .		✓	
7. Retention Time Shift Meet Criteria (if applicable) Comments:			✓



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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

		NA	NO	YES
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.			

ADDITIONAL COMMENTS:

REVIEWED

QA REVIEW

By Sohil Jodhani, QA/QC Director at 9:34 am, Mar 12, 2025

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1421

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 Custody

✓

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: 03/07/2025

LAB CHRONICLE

OrderID:	Q1421	OrderDate:	2/24/2025 2:56:42 PM
Client:	Weston Solutions, Inc.	Project:	RFP 905
Contact:	Smita Sumbaly	Location:	H31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1421-01	P001-CLAY-CF01-01	SOIL			02/24/25			02/24/25
			PCB	8082A		02/25/25	02/25/25	
			Pesticide-TCL	8081B		02/25/25	02/25/25	
			EPH	NJEPH		02/27/25	02/28/25	
Q1421-04	P001-CLAY-CF01-01	WATER			02/24/25			02/24/25
			SPLP PCB	8082A		02/27/25	02/27/25	
			SPLP Pesticide	8081B		02/27/25	02/27/25	
			EPH	NJEPH		02/26/25	02/27/25	
Q1421-07	P001-CLAY-CF01-02	SOIL			02/24/25			02/24/25
			PCB	8082A		02/25/25	02/25/25	
			EPH	NJEPH		02/27/25	02/28/25	
Q1421-08	P001-CLAY-CF01-02	WATER			02/24/25			02/24/25
			SPLP PCB	8082A		02/27/25	02/27/25	
			SPLP Pesticide	8081B		02/27/25	02/27/25	
			EPH	NJEPH		02/26/25	02/27/25	
Q1421-08RE	P001-CLAY-CF01-02R E	WATER			02/24/25			02/24/25
			SPLP Pesticide	8081B		02/27/25	02/28/25	
Q1421-09	P001-CLAY-CF02-01	SOIL			02/24/25			02/24/25
			PCB	8082A		02/25/25	02/25/25	
			EPH	NJEPH		02/27/25	02/28/25	
Q1421-10	P001-CLAY-CF02-01	Water			02/24/25			02/24/25
			EPH	NJEPH		02/26/25	02/27/25	
			SPLP PCB	8082A		02/27/25	02/27/25	
			SPLP Pesticide	8081B		02/27/25	02/27/25	

Hit Summary Sheet
SW-846

SDG No.: Q1421

Order ID: Q1421

Client: Weston Solutions, Inc.

Project ID: RFP 905

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: 0.000



QC SUMMARY

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Surrogate Summary

SDG No.: Q1421

Client: Weston Solutions, Inc.

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PL094323.D	PIBLK-PL094323.D	Decachlorobiphenyl	1	20	24.7	123		43	140
		Tetrachloro-m-xylene	1	20	23.3	116		77	126
		Decachlorobiphenyl	2	20	23.6	118		43	140
		Tetrachloro-m-xylene	2	20	22.8	114		77	126
I.BLK-PL094432.D	PIBLK-PL094432.D	Decachlorobiphenyl	1	20	19.8	99		43	140
		Tetrachloro-m-xylene	1	20	20.9	105		77	126
		Decachlorobiphenyl	2	20	18.9	94		43	140
		Tetrachloro-m-xylene	2	20	20.8	104		77	126
PB166896BL	PB166896BL	Decachlorobiphenyl	1	20	24.2	121		43	140
		Tetrachloro-m-xylene	1	20	24.2	121		77	126
		Decachlorobiphenyl	2	20	24.2	121		43	140
		Tetrachloro-m-xylene	2	20	23.2	116		77	126
PB166896BS	PB166896BS	Decachlorobiphenyl	1	20	20.2	101		43	140
		Tetrachloro-m-xylene	1	20	19.9	99		77	126
		Decachlorobiphenyl	2	20	19.7	98		43	140
		Tetrachloro-m-xylene	2	20	19.3	97		77	126
PB166896TB	PB166896TB	Decachlorobiphenyl	1	20	24.2	121		43	140
		Tetrachloro-m-xylene	1	20	24.2	121		77	126
		Decachlorobiphenyl	2	20	24.0	120		43	140
		Tetrachloro-m-xylene	2	20	23.9	120		77	126
Q1421-04	P001-CLAY-CF01-01	Decachlorobiphenyl	1	20	25.2	126		43	140
		Tetrachloro-m-xylene	1	20	25.1	126		77	126
		Decachlorobiphenyl	2	20	25.0	125		43	140
		Tetrachloro-m-xylene	2	20	25.4	127	*	77	126
Q1421-05MS	P001-CLAY-CF01-01MS	Decachlorobiphenyl	1	20	25.2	126		43	140
		Tetrachloro-m-xylene	1	20	26.3	132	*	77	126
		Decachlorobiphenyl	2	20	25.4	127		43	140
		Tetrachloro-m-xylene	2	20	25.4	127	*	77	126
Q1421-06MSD	P001-CLAY-CF01-01MSD	Decachlorobiphenyl	1	20	25.7	128		43	140
		Tetrachloro-m-xylene	1	20	25.7	129	*	77	126
		Decachlorobiphenyl	2	20	25.8	129		43	140
		Tetrachloro-m-xylene	2	20	25.8	129	*	77	126
Q1421-08	P001-CLAY-CF01-02	Decachlorobiphenyl	1	20	25.6	128		43	140
		Tetrachloro-m-xylene	1	20	27.1	136	*	77	126
		Decachlorobiphenyl	2	20	25.4	127		43	140
		Tetrachloro-m-xylene	2	20	27.1	135	*	77	126
Q1421-10	P001-CLAY-CF02-01	Decachlorobiphenyl	1	20	25.4	127		43	140
		Tetrachloro-m-xylene	1	20	21.1	106		77	126
		Decachlorobiphenyl	2	20	24.3	122		43	140
		Tetrachloro-m-xylene	2	20	23.9	120		77	126
I.BLK-PL094443.D	PIBLK-PL094443.D	Decachlorobiphenyl	1	20	20.2	101		43	140

Surrogate Summary

SDG No.: Q1421

Client: Weston Solutions, Inc.

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PL094443.D	PIBLK-PL094443.D	Tetrachloro-m-xylene	1	20	20.8	104		77	126
		Decachlorobiphenyl	2	20	18.8	94		43	140
I.BLK-PL094459.D	PIBLK-PL094459.D	Tetrachloro-m-xylene	2	20	20.4	102		77	126
		Decachlorobiphenyl	1	20	18.7	93		43	140
		Tetrachloro-m-xylene	1	20	20.1	100		77	126
		Decachlorobiphenyl	2	20	15.8	79		43	140
		Tetrachloro-m-xylene	2	20	20.6	103		77	126
Q1421-08RE	P001-CLAY-CF01-02RE	Decachlorobiphenyl	1	20	23.8	119		43	140
		Tetrachloro-m-xylene	1	20	26.4	132	*	77	126
		Decachlorobiphenyl	2	20	22.3	111		43	140
		Tetrachloro-m-xylene	2	20	26.7	134	*	77	126
I.BLK-PL094462.D	PIBLK-PL094462.D	Decachlorobiphenyl	1	20	19.7	98		43	140
		Tetrachloro-m-xylene	1	20	20.9	104		77	126
		Decachlorobiphenyl	2	20	18.3	91		43	140
		Tetrachloro-m-xylene	2	20	20.9	105		77	126

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1421

Client: Weston Solutions, Inc.

Analytical Method: 8081B

DataFile : PL094439.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID:	P001-CLAY-CF01-01MS											
Q1421-05MS	alpha-BHC	0.5	0	0.59	ug/L	118				46	160	
	beta-BHC	0.5	0	0.60	ug/L	119				15	175	
	delta-BHC	0.5	0	0.59	ug/L	118				10	175	
	gamma-BHC (Lindane)	0.5	0	0.59	ug/L	117				60	152	
	Heptachlor	0.5	0	0.57	ug/L	114				56	147	
	Aldrin	0.5	0	0.55	ug/L	110				45	147	
	Heptachlor epoxide	0.5	0	0.58	ug/L	117				77	143	
	Endosulfan I	0.5	0	0.60	ug/L	120				34	157	
	Dieldrin	0.5	0	0.61	ug/L	122				46	155	
	4,4'-DDE	0.5	0	0.61	ug/L	122				36	162	
	Endrin	0.5	0	0.70	ug/L	140				76	144	
	Endosulfan II	0.5	0	0.63	ug/L	127				21	168	
	4,4'-DDD	0.5	0	0.67	ug/L	135				15	175	
	Endosulfan sulfate	0.5	0	0.61	ug/L	121				14	183	
	4,4'-DDT	0.5	0	0.63	ug/L	126				15	175	
	Methoxychlor	0.5	0	0.60	ug/L	120				70	142	
	Endrin ketone	0.5	0	0.61	ug/L	123				25	172	
	Endrin aldehyde	0.5	0	0.57	ug/L	113				28	175	
	alpha-Chlordane	0.5	0	0.60	ug/L	120				34	160	
	gamma-Chlordane	0.5	0	0.60	ug/L	120				31	163	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1421

Client: Weston Solutions, Inc.

Analytical Method: 8081B

DataFile : PL094440.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID:	P001-CLAY-CF01-01MSD											
Q1421-06MSD	alpha-BHC	0.5	0	0.60	ug/L	120		2		46	160	20
	beta-BHC	0.5	0	0.60	ug/L	120		1		15	175	20
	delta-BHC	0.5	0	0.60	ug/L	119		1		10	175	20
	gamma-BHC (Lindane)	0.5	0	0.59	ug/L	118		1		60	152	20
	Heptachlor	0.5	0	0.58	ug/L	115		1		56	147	20
	Aldrin	0.5	0	0.55	ug/L	111		1		45	147	22
	Heptachlor epoxide	0.5	0	0.59	ug/L	118		1		77	143	20
	Endosulfan I	0.5	0	0.61	ug/L	121		1		34	157	20
	Dieldrin	0.5	0	0.61	ug/L	123		1		46	155	20
	4,4'-DDE	0.5	0	0.61	ug/L	123		1		36	162	20
	Endrin	0.5	0	0.71	ug/L	142		1		76	144	20
	Endosulfan II	0.5	0	0.64	ug/L	128		1		21	168	20
	4,4'-DDD	0.5	0	0.68	ug/L	136		1		15	175	20
	Endosulfan sulfate	0.5	0	0.61	ug/L	122		1		14	183	20
	4,4'-DDT	0.5	0	0.64	ug/L	127		1		15	175	20
	Methoxychlor	0.5	0	0.60	ug/L	121		1		70	142	20
	Endrin ketone	0.5	0	0.62	ug/L	123		0		25	172	20
	Endrin aldehyde	0.5	0	0.57	ug/L	114		1		28	175	20
	alpha-Chlordane	0.5	0	0.60	ug/L	121		1		34	160	20
	gamma-Chlordane	0.5	0	0.61	ug/L	121		1		31	163	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1421

Client: Weston Solutions, Inc.

Analytical Method: **8081B** Datafile : PL094436.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB166896BS	alpha-BHC	0.5	0.48	ug/L	96				85	130	
	beta-BHC	0.5	0.50	ug/L	100				83	126	
	delta-BHC	0.5	0.48	ug/L	95				69	141	
	gamma-BHC (Lindane)	0.5	0.48	ug/L	96				82	129	
	Heptachlor	0.5	0.50	ug/L	99				79	127	
	Aldrin	0.5	0.48	ug/L	95				79	126	
	Heptachlor epoxide	0.5	0.50	ug/L	99				81	124	
	Endosulfan I	0.5	0.51	ug/L	102				85	122	
	Dieldrin	0.5	0.51	ug/L	102				83	125	
	4,4'-DDE	0.5	0.52	ug/L	104				80	127	
	Endrin	0.5	0.57	ug/L	113				81	128	
	Endosulfan II	0.5	0.53	ug/L	107				82	123	
	4,4'-DDD	0.5	0.56	ug/L	112				77	131	
	Endosulfan sulfate	0.5	0.51	ug/L	102				76	129	
	4,4'-DDT	0.5	0.52	ug/L	105				80	133	
	Methoxychlor	0.5	0.51	ug/L	102				78	108	
	Endrin ketone	0.5	0.53	ug/L	107				80	131	
	Endrin aldehyde	0.5	0.49	ug/L	99				82	127	
	alpha-Chlordane	0.5	0.50	ug/L	101				82	125	
	gamma-Chlordane	0.5	0.51	ug/L	101				82	125	

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166896BL

Lab Name: CHEMTECH

Contract: ROYF02

Lab Code: CHEM Case No.: Q1421

SAS No.: Q1421 SDG NO.: Q1421

Lab Sample ID: PB166896BL

Lab File ID: PL094435.D

Matrix: (soil/water) WATER

Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N

Date Extracted: 02/27/2025

Date Analyzed (1): 02/27/2025

Date Analyzed (2): 02/27/2025

Time Analyzed (1): 20:27

Time Analyzed (2): 20:27

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

GC Column (1): ZB-MR1 ID: 0.32 (mm)

GC Column (2): ZB-MR2 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
PB166896BS	PB166896BS	PL094436.D	02/27/2025	02/27/2025
PB166896TB	PB166896TB	PL094437.D	02/27/2025	02/27/2025
P001-CLAY-CF01-01	Q1421-04	PL094438.D	02/27/2025	02/27/2025
P001-CLAY-CF01-01MS	Q1421-05MS	PL094439.D	02/27/2025	02/27/2025
P001-CLAY-CF01-01MSD	Q1421-06MSD	PL094440.D	02/27/2025	02/27/2025
P001-CLAY-CF01-02	Q1421-08	PL094441.D	02/27/2025	02/27/2025
P001-CLAY-CF02-01	Q1421-10	PL094442.D	02/27/2025	02/27/2025

COMMENTS: _____



SAMPLE DATA

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Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:		
Project:	RFP 905		Date Received:	02/27/25	
Client Sample ID:	PB166896TB		SDG No.:	Q1421	
Lab Sample ID:	PB166896TB		Matrix:	WATER	
Analytical Method:	SW8081		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	SPLP Pesticide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094437.D	1	02/27/25 09:10	02/27/25 20:54	PB166896

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	24.2		43 - 140	121%	SPK: 20
877-09-8	Tetrachloro-m-xylene	24.2		77 - 126	121%	SPK: 20

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:		
Project:	RFP 905		Date Received:	02/27/25	
Client Sample ID:	PB166896TB		SDG No.:	Q1421	
Lab Sample ID:	PB166896TB		Matrix:	WATER	
Analytical Method:	SW8081		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	SPLP Pesticide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094437.D	1	02/27/25 09:10	02/27/25 20:54	PB166896

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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_L\Data\PL022725\
Data File : PL094437.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2025 20:54
Operator : AR\AJ
Sample : PB166896TB
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB166896TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 22:19:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 14:52:19 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 x0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.538	2.772	61380564	76392224	24.174	23.939
28) SA Decachlor...	9.054	7.906	51566977	92309802	24.241	24.004

Target Compounds

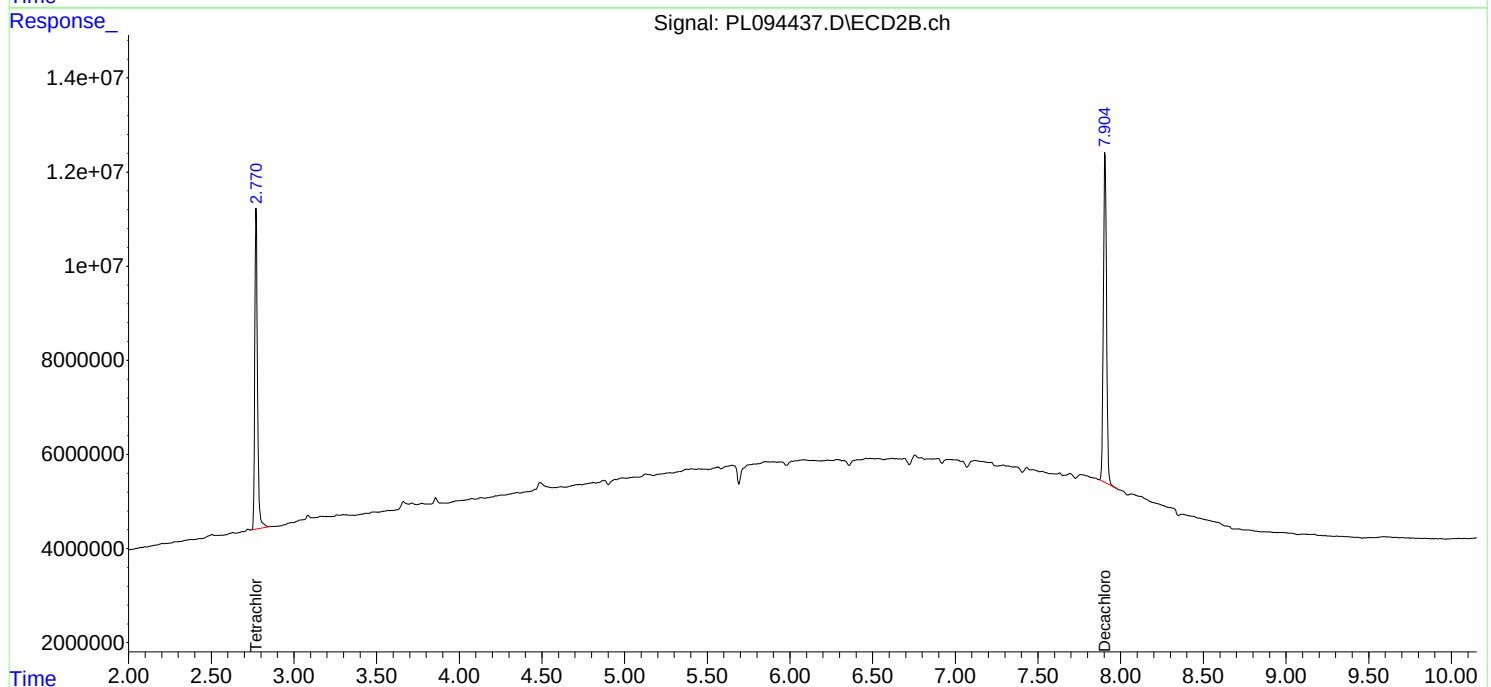
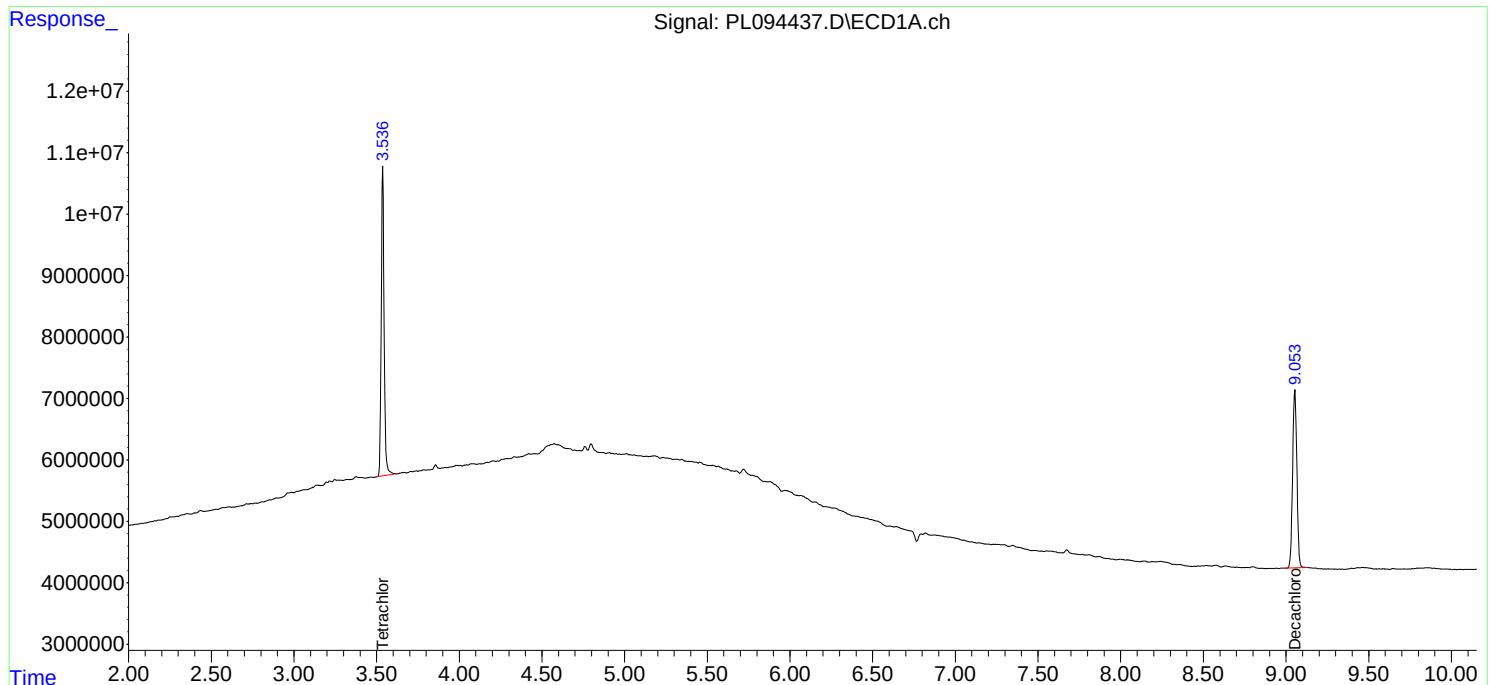
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

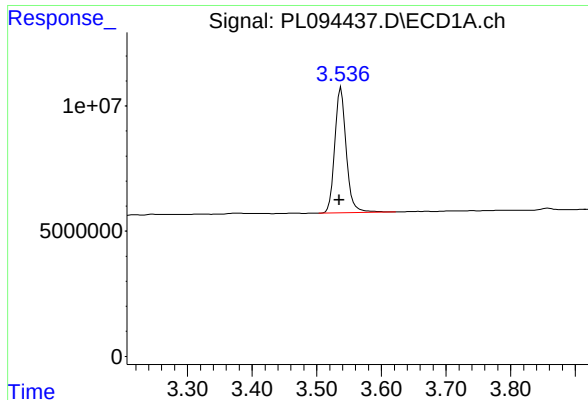
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022725\
Data File : PL094437.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2025 20:54
Operator : AR\AJ
Sample : PB166896TB
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB166896TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 22:19:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 14:52:19 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 x0.25µm

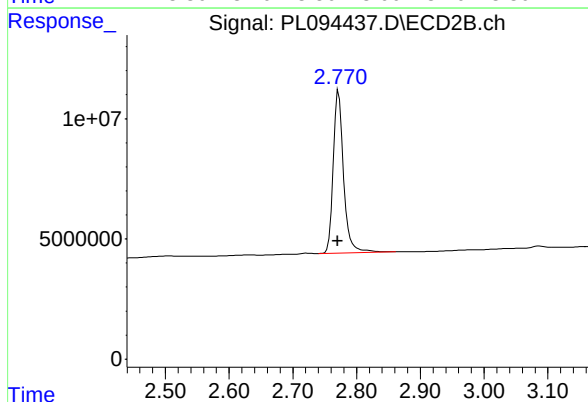




#1 Tetrachloro-m-xylene

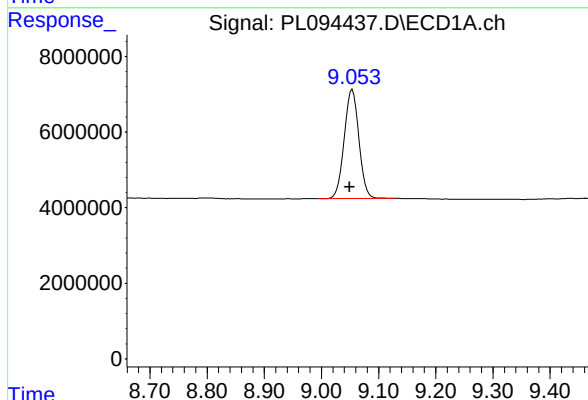
R.T.: 3.538 min
Delta R.T.: 0.003 min
Response: 61380564
Conc: 24.17 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB166896TB



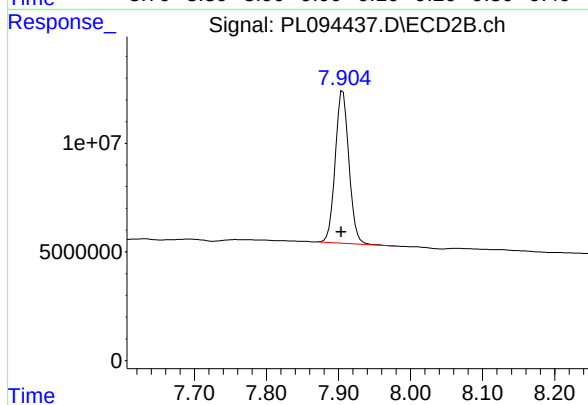
#1 Tetrachloro-m-xylene

R.T.: 2.772 min
Delta R.T.: 0.002 min
Response: 76392224
Conc: 23.94 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.054 min
Delta R.T.: 0.005 min
Response: 51566977
Conc: 24.24 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.906 min
Delta R.T.: 0.002 min
Response: 92309802
Conc: 24.00 ng/ml

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-04	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	SPLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094438.D	1	02/27/25 09:10	02/27/25 21:08	PB166896

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	25.2		43 - 140	126%	SPK: 20
877-09-8	Tetrachloro-m-xylene	25.4	*	77 - 126	127%	SPK: 20

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-04	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	SPLP Pesticide
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094438.D	1	02/27/25 09:10	02/27/25 21:08	PB166896

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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_L\Data\PL022725\
Data File : PL094438.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2025 21:08
Operator : AR\AJ
Sample : Q1421-04
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF01-01

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 22:19:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 14:52:19 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 x0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.538	2.771	63776109	81182443	25.118	25.440m
28) SA Decachlor...	9.053	7.906	53606240	96038404	25.200	24.973

Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022725\
Data File : PL094438.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2025 21:08
Operator : AR\AJ
Sample : Q1421-04
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

P001-CLAY-CF01-01

Manual Integrations

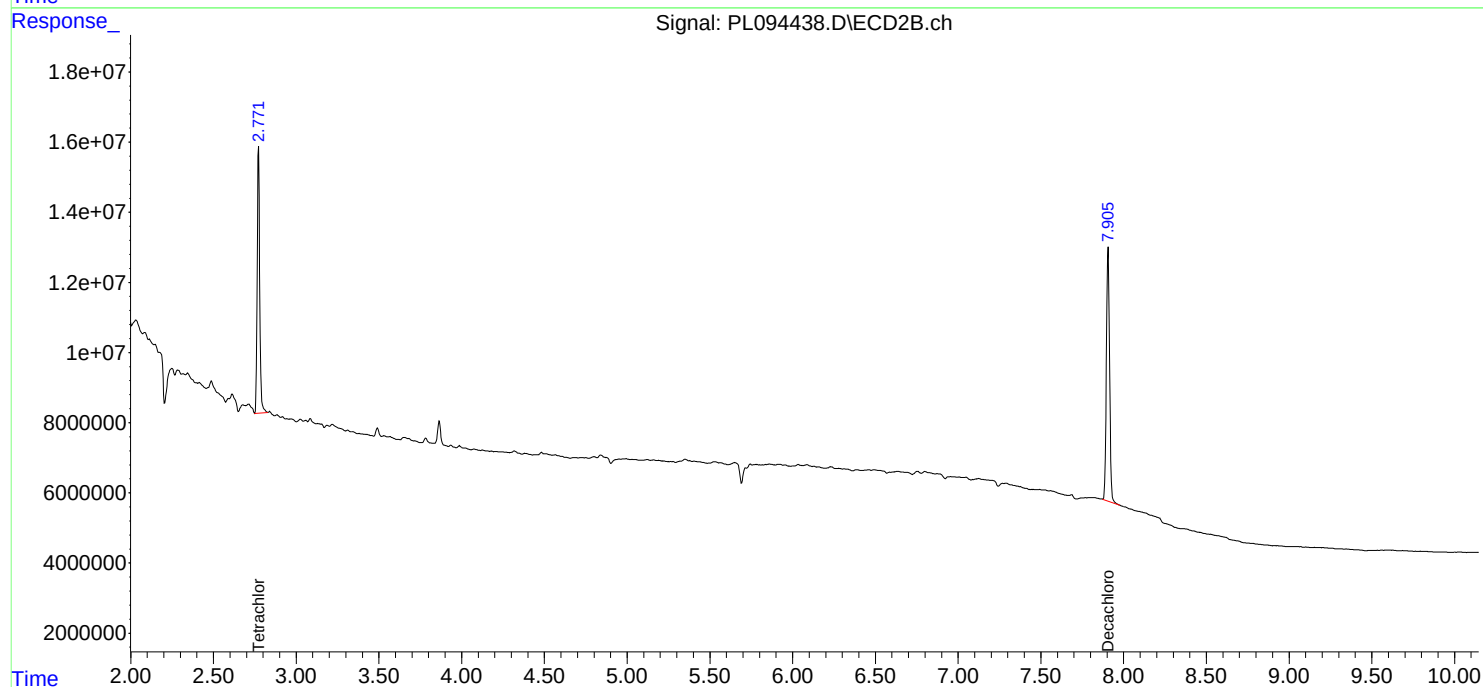
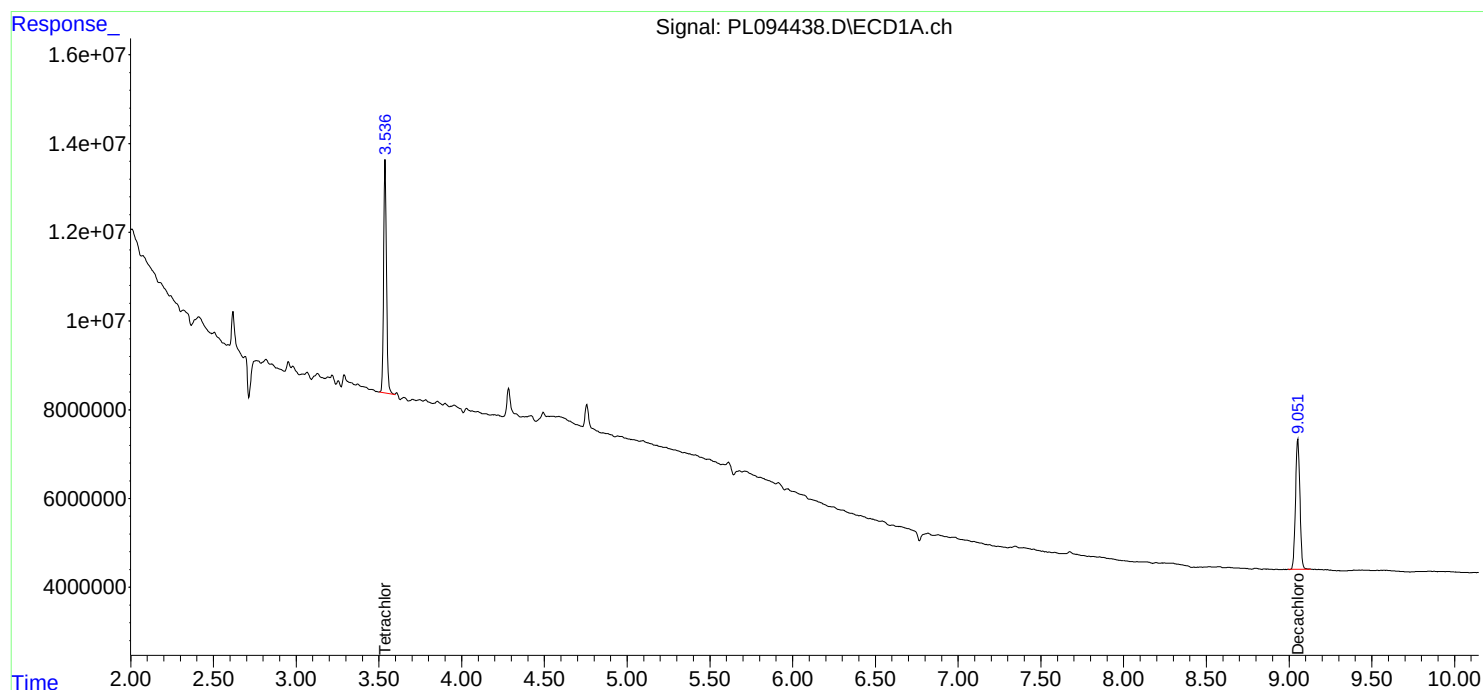
APPROVED

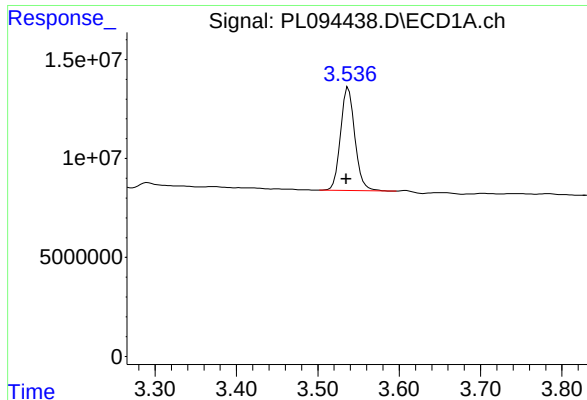
Reviewed By :Abdul Mirza 03/02/2025

Supervised By :Ankita Jodhani 03/04/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 22:19:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 14:52:19 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 x0.25µm





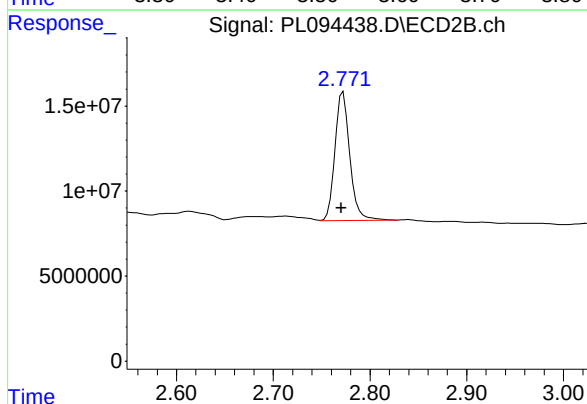
#1 Tetrachloro-m-xylene

R.T.: 3.538 min
Delta R.T.: 0.003 min
Response: 63776109
Conc: 25.12 ng/ml

Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF01-01

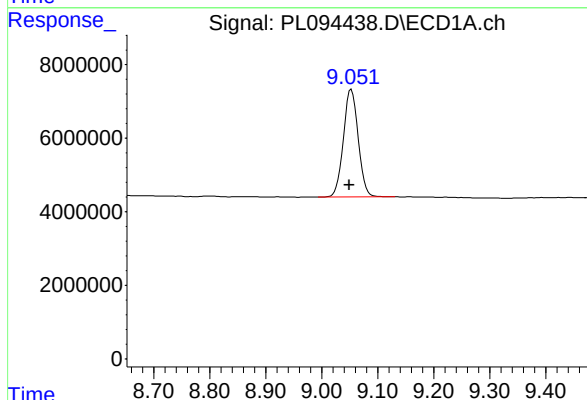
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



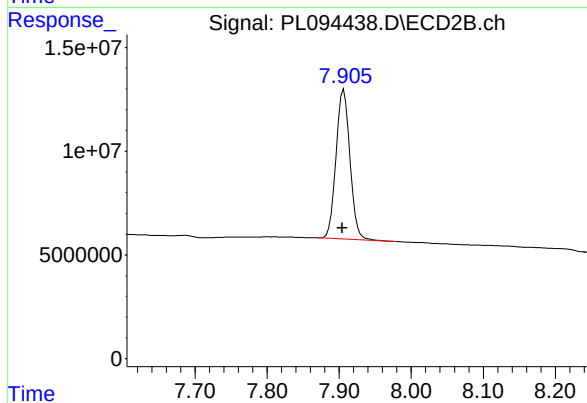
#1 Tetrachloro-m-xylene

R.T.: 2.771 min
Delta R.T.: 0.000 min
Response: 81182443
Conc: 25.44 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.053 min
Delta R.T.: 0.004 min
Response: 53606240
Conc: 25.20 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.906 min
Delta R.T.: 0.002 min
Response: 96038404
Conc: 24.97 ng/ml

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-02	SDG No.:	Q1421
Lab Sample ID:	Q1421-08	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	SPLP Pesticide
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Decanted:	
		Final Vol:	10000
			uL
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094441.D	1	02/27/25 09:10	02/27/25 21:48	PB166896

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	25.6		43 - 140	128%	SPK: 20
877-09-8	Tetrachloro-m-xylene	27.1	*	77 - 126	136%	SPK: 20

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	02/24/25	
Project:	RFP 905		Date Received:	02/24/25	
Client Sample ID:	P001-CLAY-CF01-02		SDG No.:	Q1421	
Lab Sample ID:	Q1421-08		Matrix:	WATER	
Analytical Method:	SW8081		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	SPLP Pesticide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094441.D	1	02/27/25 09:10	02/27/25 21:48	PB166896

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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_L\Data\PL022725\
Data File : PL094441.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2025 21:48
Operator : AR\AJ
Sample : Q1421-08
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF01-02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 02:51:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 14:52:19 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 x0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.538	2.772	68877641	86459711	27.127	27.093
28) SA Decachlor...	9.054	7.907	54397771	97815330	25.572	25.435

Target Compounds

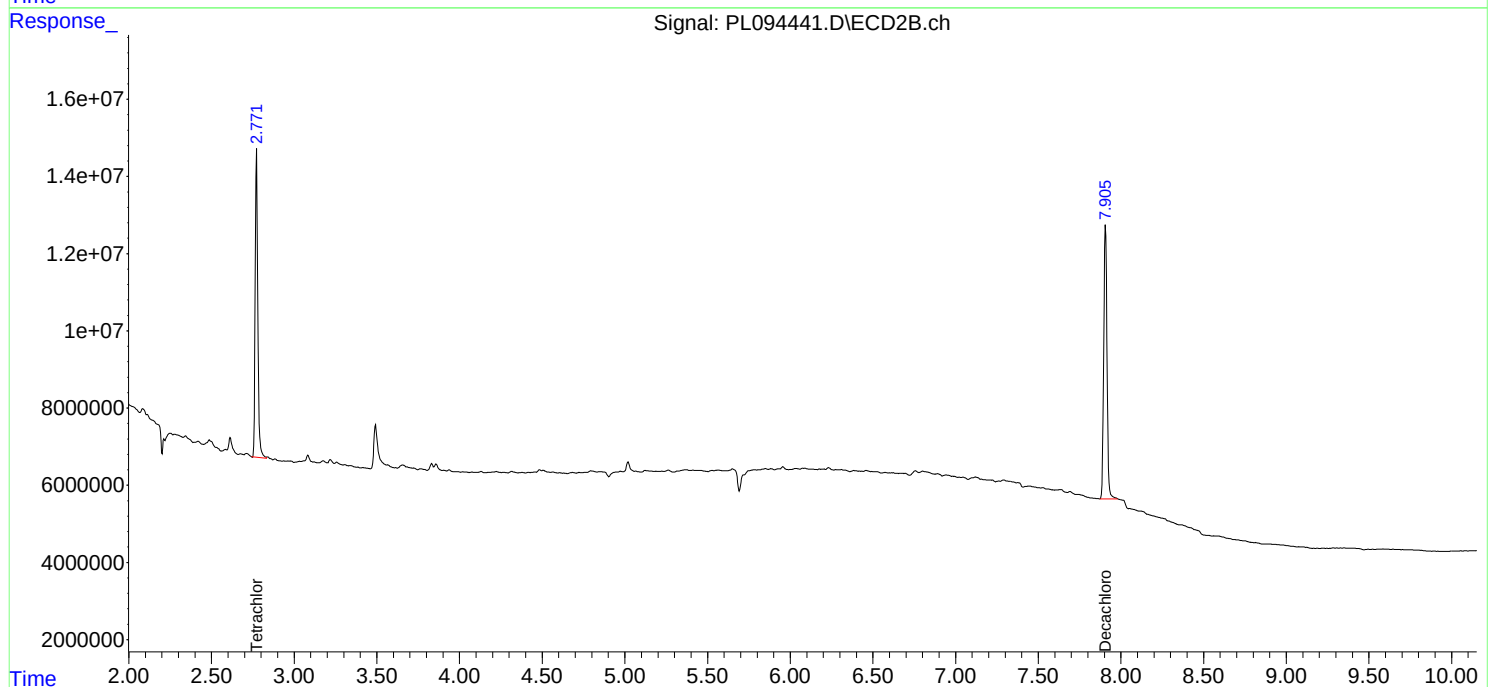
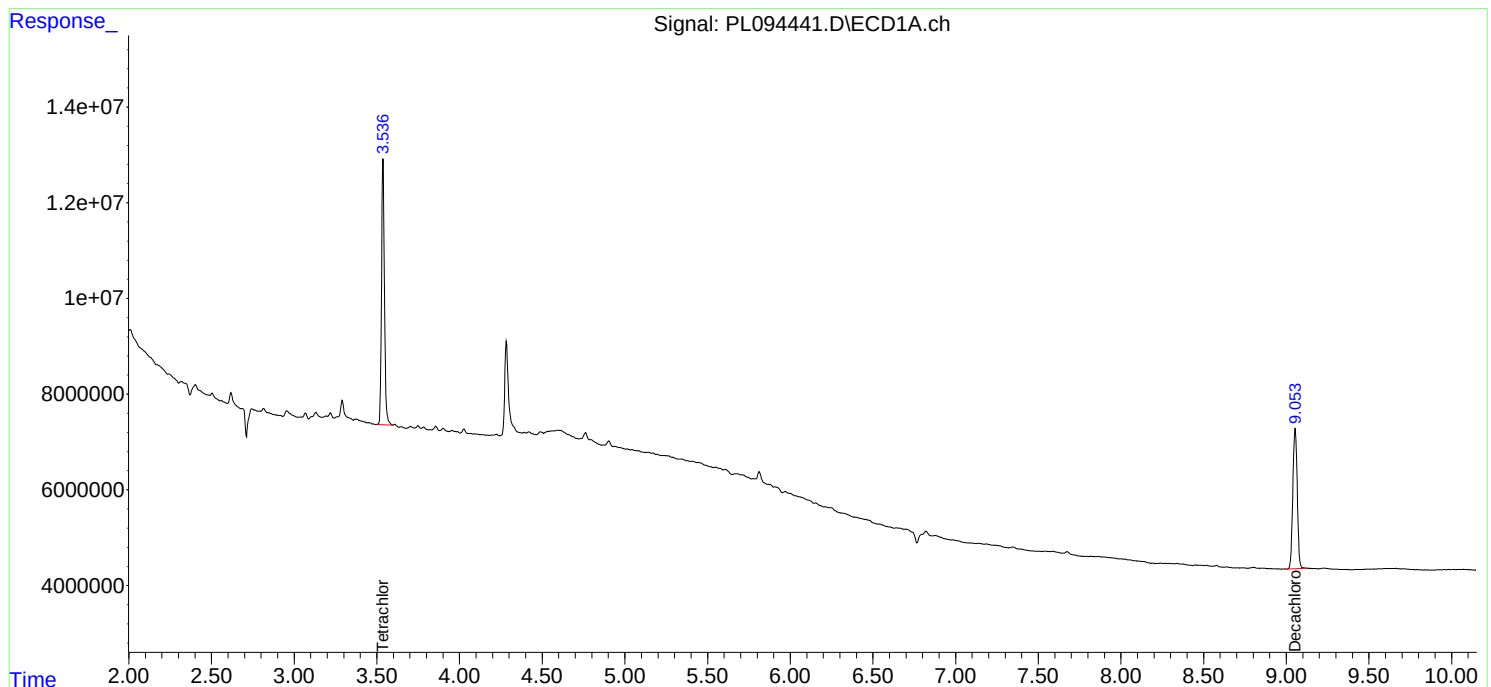
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

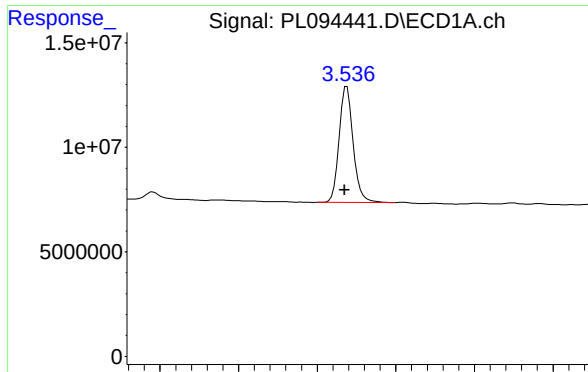
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022725\
Data File : PL094441.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2025 21:48
Operator : AR\AJ
Sample : Q1421-08
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF01-02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 02:51:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 14:52:19 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 x0.25µm

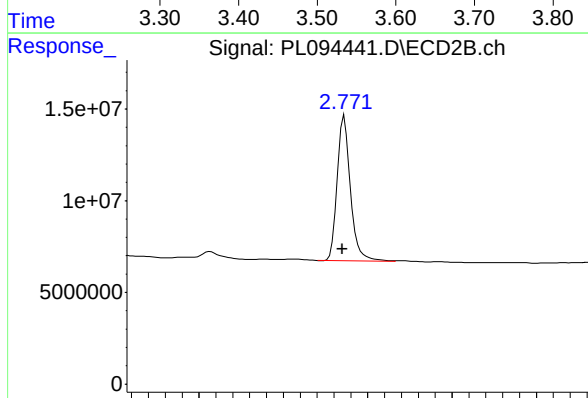




#1 Tetrachloro-m-xylene

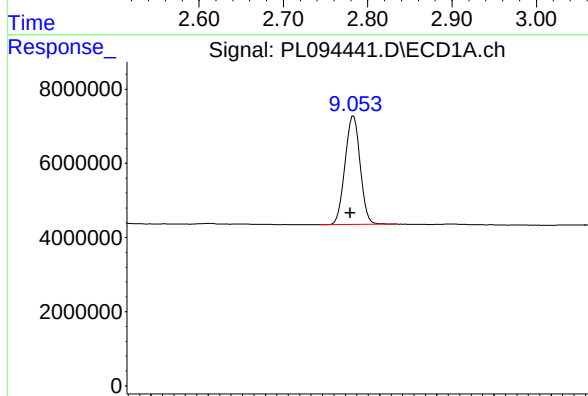
R.T.: 3.538 min
Delta R.T.: 0.003 min
Response: 68877641
Conc: 27.13 ng/ml

Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF01-02



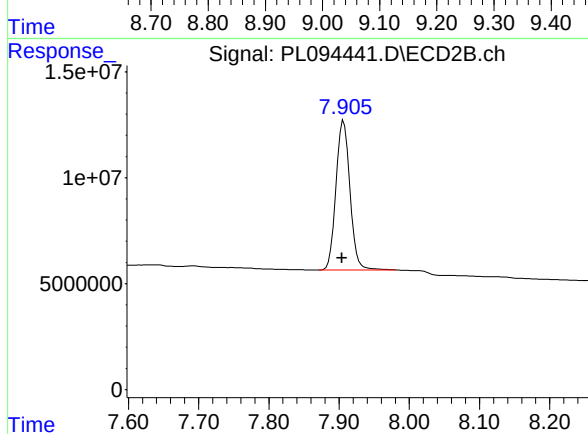
#1 Tetrachloro-m-xylene

R.T.: 2.772 min
Delta R.T.: 0.002 min
Response: 86459711
Conc: 27.09 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.054 min
Delta R.T.: 0.005 min
Response: 54397771
Conc: 25.57 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.907 min
Delta R.T.: 0.002 min
Response: 97815330
Conc: 25.44 ng/ml

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	02/24/25	
Project:	RFP 905		Date Received:	02/24/25	
Client Sample ID:	P001-CLAY-CF01-02RE		SDG No.:	Q1421	
Lab Sample ID:	Q1421-08RE		Matrix:	WATER	
Analytical Method:	SW8081		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	SPLP Pesticide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094461.D	1	02/27/25 09:10	02/28/25 14:47	PB166896

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	23.8		43 - 140	119%	SPK: 20
877-09-8	Tetrachloro-m-xylene	26.7	*	77 - 126	134%	SPK: 20

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-02RE	SDG No.:	Q1421
Lab Sample ID:	Q1421-08RE	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	SPLP Pesticide
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Decanted:	
		Final Vol:	10000
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094461.D	1	02/27/25 09:10	02/28/25 14:47	PB166896

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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_L\Data\PL022825\
Data File : PL094461.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2025 14:47
Operator : AR\AJ
Sample : Q1421-08RE
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF01-02RE

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 03 00:51:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 14:52:19 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 x0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.539	2.772	67024452	85281209	26.397	26.724
28) SA Decachlor...	9.057	7.908	50632083	85556295	23.802	22.248

Target Compounds

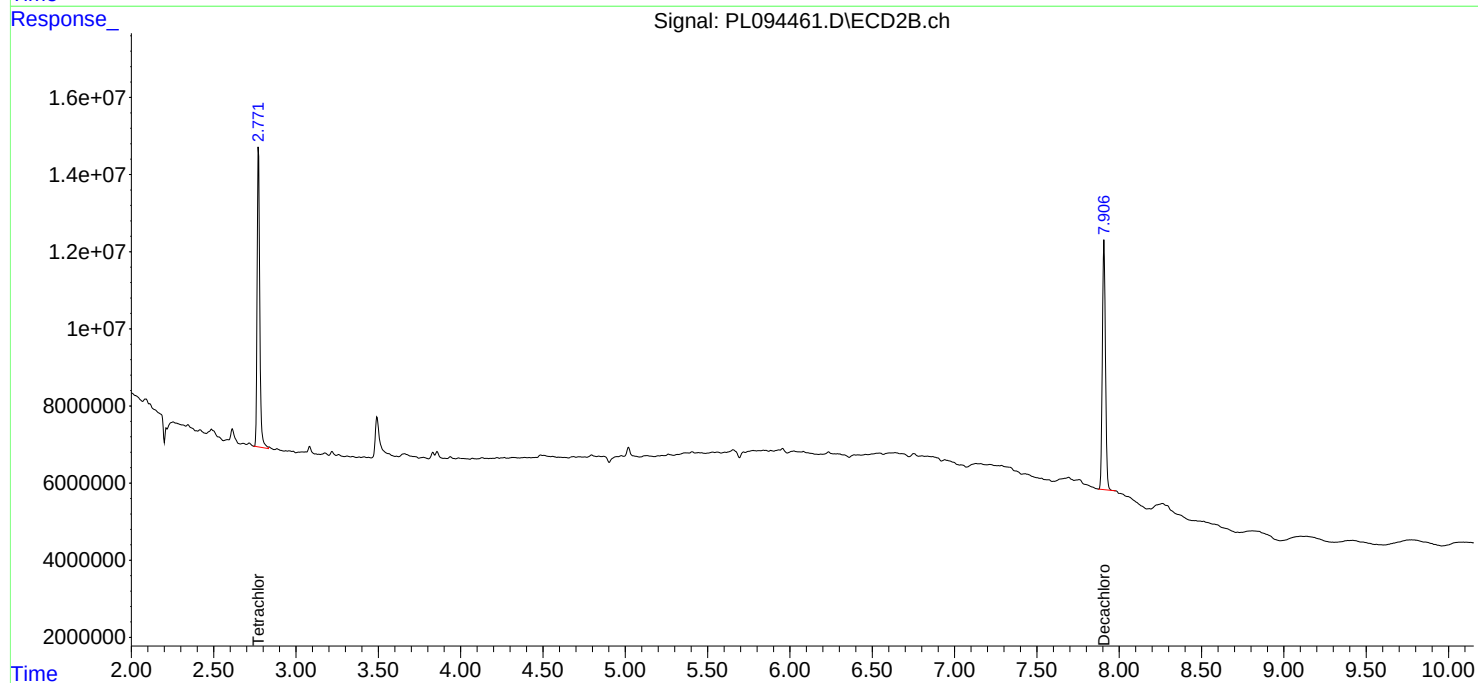
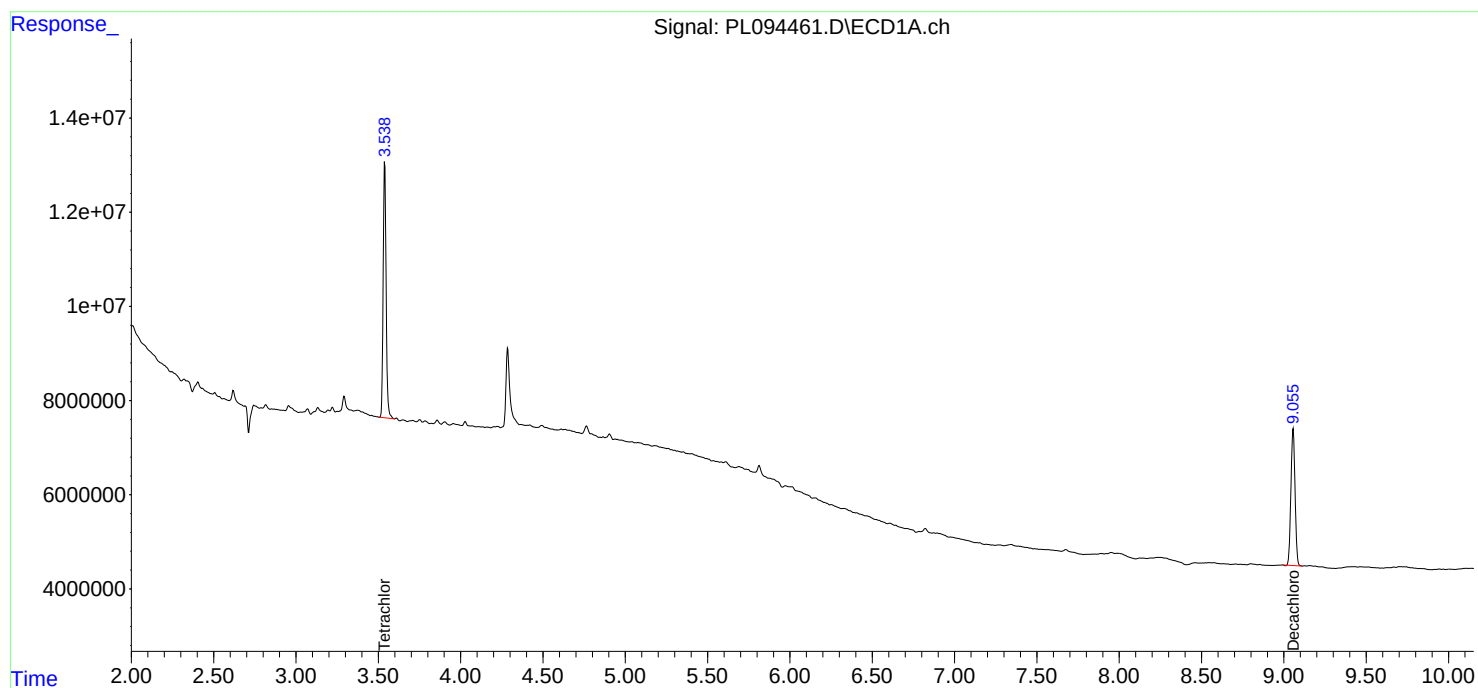
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

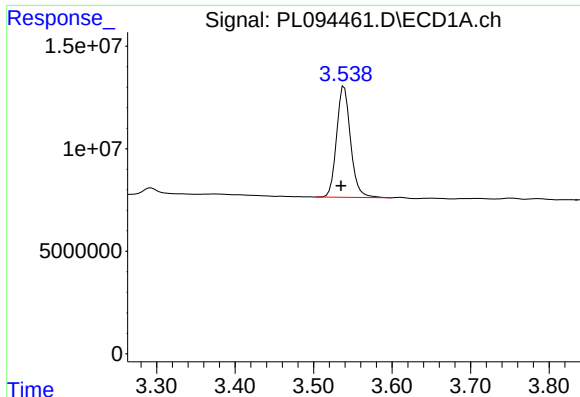
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022825\
Data File : PL094461.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2025 14:47
Operator : AR\AJ
Sample : Q1421-08RE
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF01-02RE

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 03 00:51:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 14:52:19 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 x0.25µm

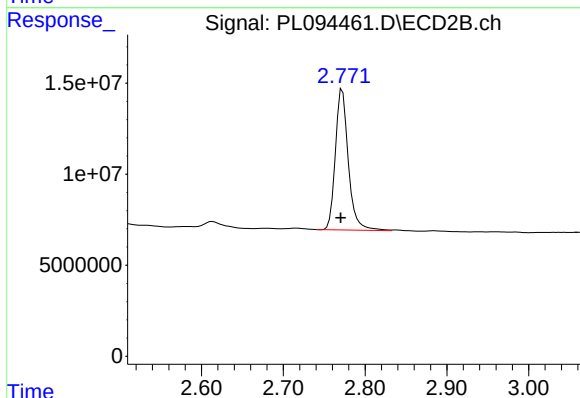




#1 Tetrachloro-m-xylene

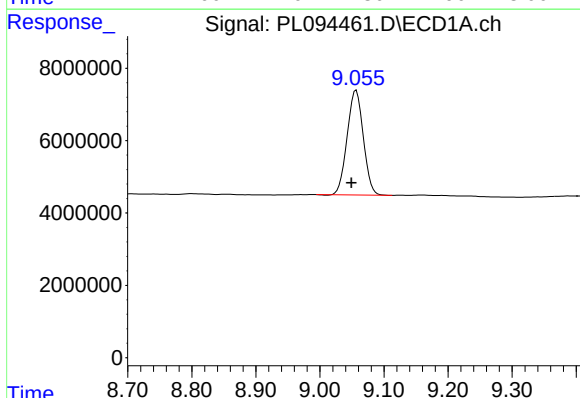
R.T.: 3.539 min
Delta R.T.: 0.004 min
Response: 67024452
Conc: 26.40 ng/ml

Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF01-02RE



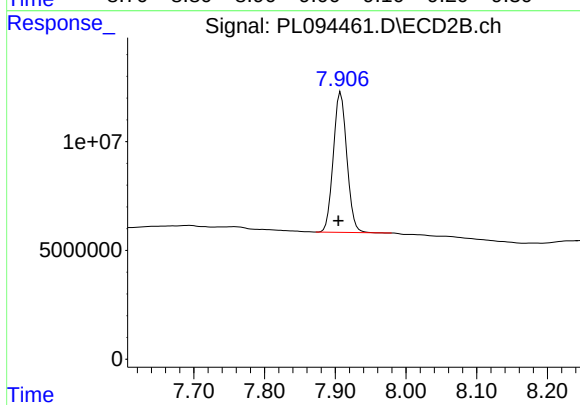
#1 Tetrachloro-m-xylene

R.T.: 2.772 min
Delta R.T.: 0.002 min
Response: 85281209
Conc: 26.72 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.057 min
Delta R.T.: 0.008 min
Response: 50632083
Conc: 23.80 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.908 min
Delta R.T.: 0.003 min
Response: 85556295
Conc: 22.25 ng/ml

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF02-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-10	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	SPLP Pesticide
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Decanted:	
		Final Vol:	10000
			uL
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094442.D	1	02/27/25 09:10	02/27/25 22:02	PB166896

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	25.4		43 - 140	127%	SPK: 20
877-09-8	Tetrachloro-m-xylene	23.9		77 - 126	120%	SPK: 20

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF02-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-10	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	SPLP Pesticide
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094442.D	1	02/27/25 09:10	02/27/25 22:02	PB166896

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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_L\Data\PL022725\
Data File : PL094442.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2025 22:02
Operator : AR\AJ
Sample : Q1421-10
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF02-01

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 02:51:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 14:52:19 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 x0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.536	2.771	53624061	76366761	21.119m	23.931m
28) SA Decachlor...	9.055	7.906	54075653	93577656	25.420	24.333

Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022725\
Data File : PL094442.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2025 22:02
Operator : AR\AJ
Sample : Q1421-10
Misc :
ALS Vial : 25 Sample Multiplier: 1

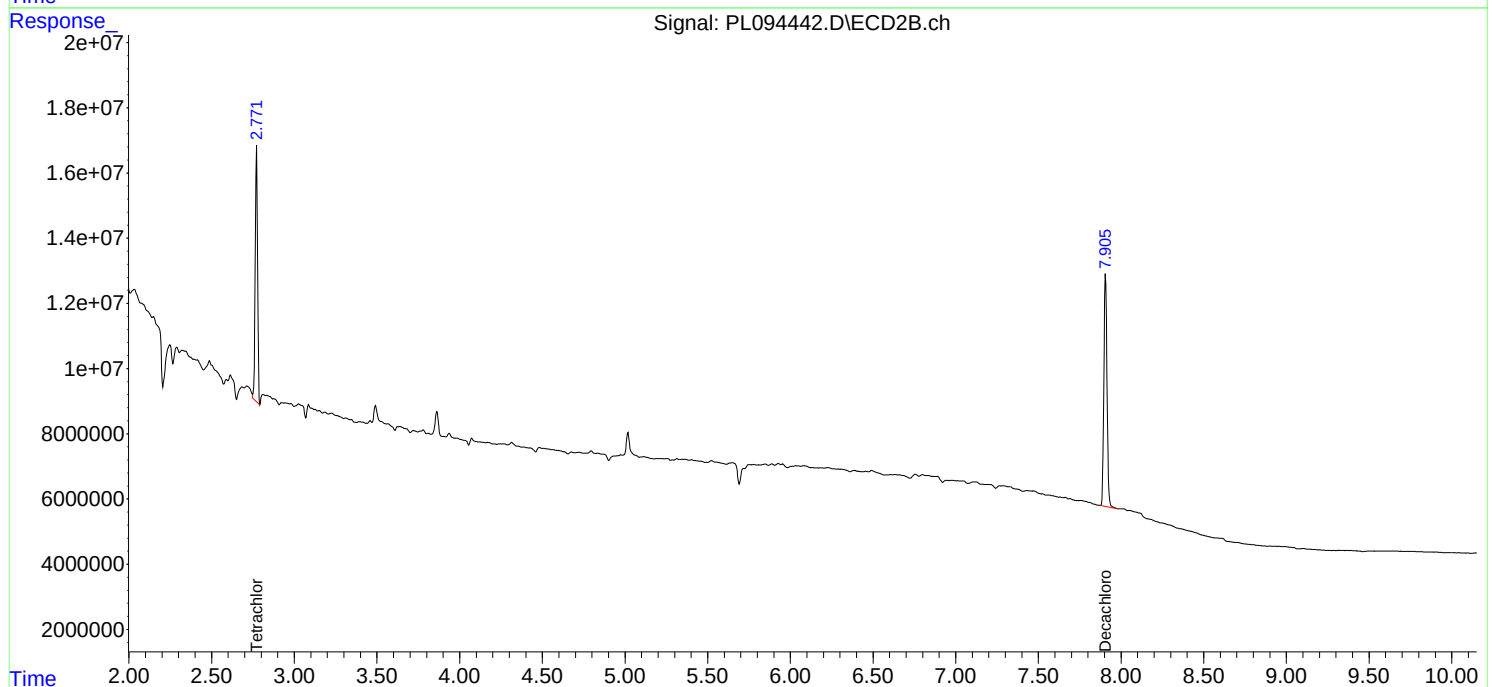
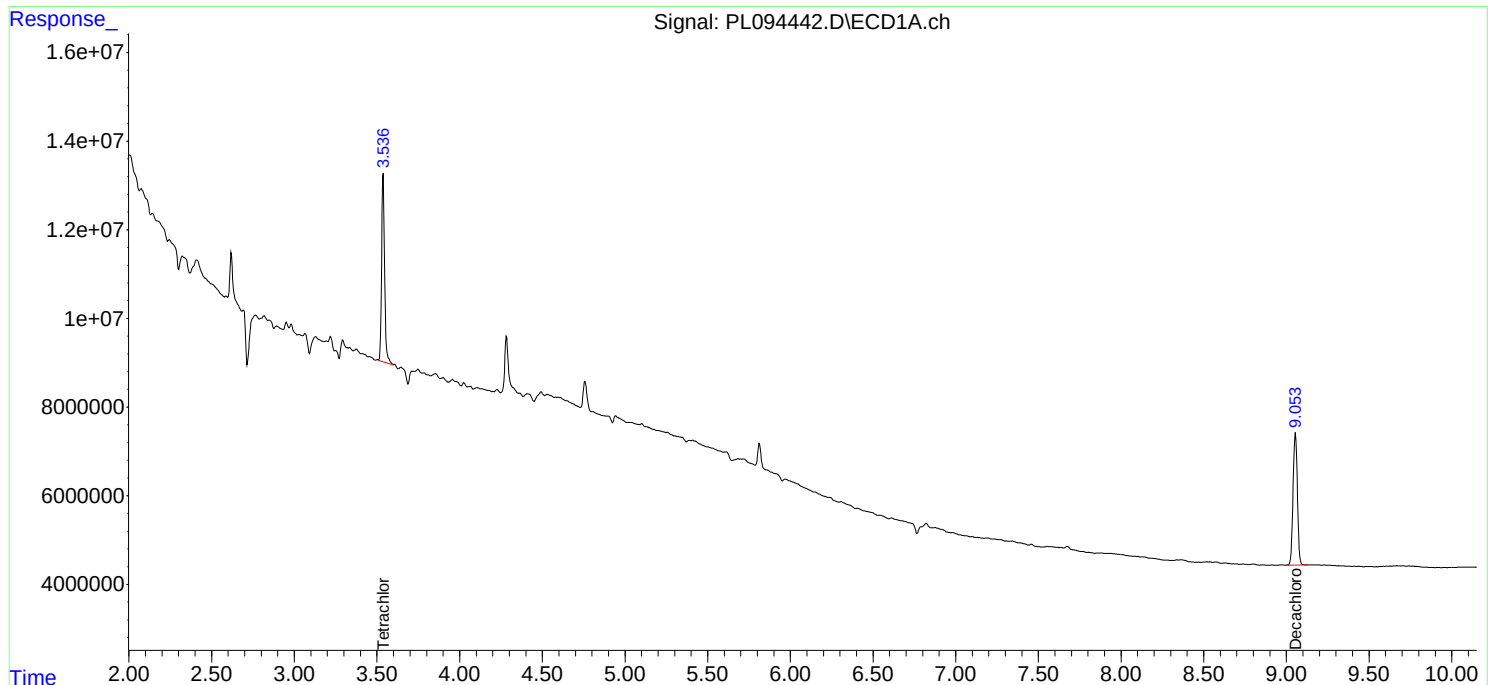
Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF02-01

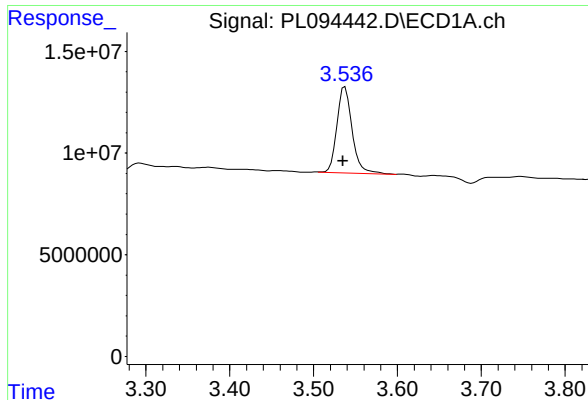
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 03/02/2025
Supervised By : Ankita Jodhani 03/04/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 02:51:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 14:52:19 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 x0.25µm





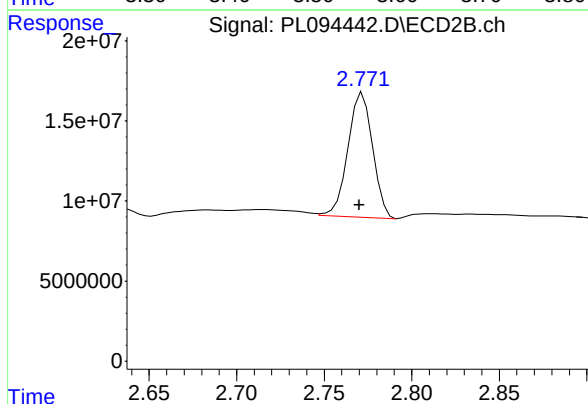
#1 Tetrachloro-m-xylene

R.T.: 3.536 min
Delta R.T.: 0.001 min
Response: 53624061
Conc: 21.12 ng/ml

Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF02-01

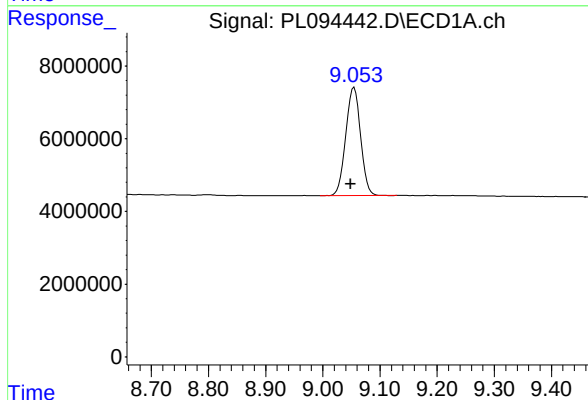
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



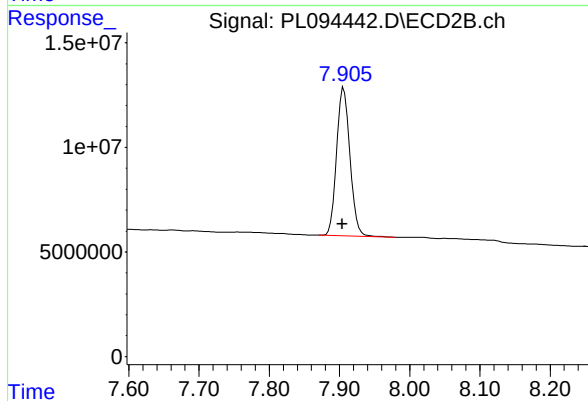
#1 Tetrachloro-m-xylene

R.T.: 2.771 min
Delta R.T.: 0.000 min
Response: 76366761
Conc: 23.93 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.055 min
Delta R.T.: 0.006 min
Response: 54075653
Conc: 25.42 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.906 min
Delta R.T.: 0.002 min
Response: 93577656
Conc: 24.33 ng/ml



CALIBRATION SUMMARY

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

RETENTION TIMES OF INITIAL CALIBRATION

Contract: ROYF02
Lab Code: CHEM **Case No.:** Q1421 **SAS No.:** Q1421 **SDG NO.:** Q1421
Instrument ID: ECD_L **Calibration Date(s):** 02/21/2025 02/21/2025
Calibration Times: 10:56 11:51

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID:	RT 100 = <u>PL094326.D</u>	RT 075 = <u>PL094327.D</u>
RT 050 = <u>PL094328.D</u>	RT 025 = <u>PL094329.D</u>	RT 005 = <u>PL094330.D</u>

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW	
							FROM	TO
4,4'-DDD	6.71	6.71	6.71	6.71	6.71	6.71	6.61	6.81
4,4'-DDE	6.19	6.19	6.19	6.19	6.19	6.19	6.09	6.29
4,4'-DDT	7.02	7.02	7.02	7.02	7.02	7.02	6.92	7.12
Aldrin	5.25	5.25	5.25	5.25	5.25	5.25	5.15	5.35
alpha-BHC	3.99	3.99	3.99	3.99	3.99	3.99	3.89	4.09
alpha-Chlordane	6.02	6.01	6.02	6.02	6.01	6.01	5.91	6.11
beta-BHC	4.52	4.52	4.52	4.52	4.52	4.52	4.42	4.62
Decachlorobiphenyl	9.05	9.05	9.05	9.05	9.05	9.05	8.95	9.15
delta-BHC	4.77	4.77	4.77	4.77	4.77	4.77	4.67	4.87
Dieldrin	6.34	6.34	6.34	6.34	6.34	6.34	6.24	6.44
Endosulfan I	6.07	6.07	6.07	6.07	6.06	6.07	5.97	6.17
Endosulfan II	6.79	6.79	6.79	6.79	6.79	6.79	6.69	6.89
Endosulfan sulfate	7.15	7.15	7.15	7.16	7.15	7.15	7.05	7.25
Endrin	6.57	6.57	6.57	6.57	6.57	6.57	6.47	6.67
Endrin aldehyde	6.92	6.92	6.92	6.92	6.92	6.92	6.82	7.02
Endrin ketone	7.64	7.64	7.64	7.64	7.64	7.64	7.54	7.74
gamma-BHC (Lindane)	4.32	4.32	4.32	4.33	4.32	4.32	4.22	4.42
gamma-Chlordane	5.94	5.94	5.94	5.94	5.94	5.94	5.84	6.04
Heptachlor	4.91	4.91	4.91	4.91	4.91	4.91	4.81	5.01
Heptachlor epoxide	5.68	5.68	5.68	5.68	5.68	5.68	5.58	5.78
Methoxychlor	7.50	7.50	7.50	7.50	7.50	7.50	7.40	7.60
Tetrachloro-m-xylene	3.54	3.54	3.54	3.54	3.54	3.54	3.44	3.64

RETENTION TIMES OF INITIAL CALIBRATION

Contract: ROYF02
Lab Code: CHEM **Case No.:** Q1421 **SAS No.:** Q1421 **SDG NO.:** Q1421
Instrument ID: ECD_L **Calibration Date(s):** 02/21/2025 02/21/2025
Calibration Times: 10:56 11:51

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID:	RT 100 = <u>PL094326.D</u>	RT 075 = <u>PL094327.D</u>
RT 050 = <u>PL094328.D</u>	RT 025 = <u>PL094329.D</u>	RT 005 = <u>PL094330.D</u>

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW	
							FROM	TO
4,4'-DDD	5.78	5.78	5.78	5.78	5.78	5.78	5.68	5.88
4,4'-DDE	5.22	5.22	5.22	5.23	5.22	5.22	5.12	5.32
4,4'-DDT	6.03	6.03	6.03	6.03	6.03	6.03	5.93	6.13
Aldrin	4.22	4.22	4.22	4.22	4.22	4.22	4.12	4.32
alpha-BHC	3.27	3.27	3.27	3.27	3.27	3.27	3.17	3.37
alpha-Chlordane	5.04	5.04	5.04	5.04	5.04	5.04	4.94	5.14
beta-BHC	3.90	3.90	3.90	3.90	3.90	3.90	3.80	4.00
Decachlorobiphenyl	7.90	7.90	7.90	7.91	7.90	7.90	7.80	8.00
delta-BHC	4.13	4.13	4.13	4.13	4.13	4.13	4.03	4.23
Dieldrin	5.36	5.35	5.36	5.36	5.36	5.36	5.26	5.46
Endosulfan I	5.09	5.09	5.09	5.09	5.09	5.09	4.99	5.19
Endosulfan II	5.93	5.93	5.93	5.93	5.93	5.93	5.83	6.03
Endosulfan sulfate	6.33	6.33	6.33	6.33	6.33	6.33	6.23	6.43
Endrin	5.63	5.63	5.63	5.63	5.63	5.63	5.53	5.73
Endrin aldehyde	6.11	6.10	6.11	6.11	6.11	6.11	6.01	6.21
Endrin ketone	6.83	6.83	6.83	6.84	6.83	6.83	6.73	6.93
gamma-BHC (Lindane)	3.60	3.60	3.60	3.60	3.60	3.60	3.50	3.70
gamma-Chlordane	4.97	4.97	4.97	4.97	4.97	4.97	4.87	5.07
Heptachlor	3.94	3.94	3.94	3.94	3.94	3.94	3.84	4.04
Heptachlor epoxide	4.72	4.72	4.72	4.72	4.72	4.72	4.62	4.82
Methoxychlor	6.61	6.60	6.61	6.61	6.60	6.60	6.50	6.70
Tetrachloro-m-xylene	2.77	2.77	2.77	2.77	2.77	2.77	2.67	2.87

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: ROYF02
Lab Code: CHEM **Case No.:** Q1421 **SAS No.:** Q1421 **SDG NO.:** Q1421
Instrument ID: ECD_L
Calibration Date(s): 02/21/2025 02/21/2025
Calibration Times: 10:56 11:51

GC Column: ZB-MR1 **ID:** 0.32 (mm)

LAB FILE ID:		CF 100 = <u>PL094326.D</u>		CF 075 = <u>PL094327.D</u>			
CF 050 = <u>PL094328.D</u>		CF 025 = <u>PL094329.D</u>		CF 005 = <u>PL094330.D</u>			
COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	1803580000	1795660000	1810310000	1935150000	1904070000	1849750000	4
4,4'-DDE	2493500000	2470740000	2506610000	2704950000	2882800000	2611720000	7
4,4'-DDT	1974760000	1979910000	2019710000	2146120000	2379640000	2100030000	8
Aldrin	3281770000	3217010000	3255180000	3477160000	3927610000	3431750000	9
alpha-BHC	3748810000	3649740000	3623010000	3780620000	4111130000	3782660000	5
alpha-Chlordane	2727770000	2693090000	2738980000	2936760000	3388830000	2897090000	10
beta-BHC	1501030000	1494420000	1485840000	1667440000	1835770000	1596900000	10
Decachlorobiphenyl	1933170000	1963230000	2030640000	2203310000	2505970000	2127260000	11
delta-BHC	3482300000	3394730000	3353250000	3521830000	3939260000	3538270000	7
Dieldrin	2692690000	2671770000	2693570000	2901890000	3285250000	2849030000	9
Endosulfan I	2547690000	2536030000	2605780000	2783760000	3269880000	2748630000	11
Endosulfan II	2275250000	2276760000	2334150000	2535820000	3164240000	2517240000	15
Endosulfan sulfate	2066530000	2082580000	2124320000	2325240000	2720550000	2263840000	12
Endrin	2293020000	2294250000	2335150000	2563130000	3275860000	2552280000	16
Endrin aldehyde	1783210000	1799570000	1847420000	2020050000	2283730000	1946800000	11
Endrin ketone	2341850000	2345380000	2389970000	2583410000	2873950000	2506910000	9
gamma-BHC (Lindane)	3636600000	3544540000	3535300000	3710470000	4046760000	3694740000	6
gamma-Chlordane	2749680000	2723950000	2753190000	2951510000	3502350000	2936140000	11
Heptachlor	3238030000	3195300000	3207600000	3444620000	3866240000	3390360000	8
Heptachlor epoxide	2854740000	2830940000	2868110000	3075040000	3438100000	3013390000	9
Methoxychlor	1034140000	1042330000	1072820000	1161190000	1244730000	1111040000	8
Tetrachloro-m-xylene	2440810000	2429970000	2443520000	2602410000	2778780000	2539100000	6

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: ROYF02
Lab Code: CHEM **Case No.:** Q1421 **SAS No.:** Q1421 **SDG NO.:** Q1421
Instrument ID: ECD_L
Calibration Date(s): 02/21/2025 02/21/2025
Calibration Times: 10:56 11:51

GC Column: ZB-MR2 **ID:** 0.32 (mm)

LAB FILE ID:		CF 100 = <u>PL094326.D</u>		CF 075 = <u>PL094327.D</u>			
CF 050 = <u>PL094328.D</u>		CF 025 = <u>PL094329.D</u>		CF 005 = <u>PL094330.D</u>			
COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	3335160000	3215540000	3139450000	3166740000	3069690000	3185310000	3
4,4'-DDE	4281660000	4182440000	4118800000	4213820000	4203280000	4200000000	1
4,4'-DDT	3703100000	3584290000	3529700000	3537620000	3430330000	3557010000	3
Aldrin	4820710000	4668200000	4536250000	4555960000	4520730000	4620370000	3
alpha-BHC	5213240000	5010060000	4886090000	4788800000	4675760000	4914790000	4
alpha-Chlordane	4373480000	4258810000	4191540000	4303990000	4460210000	4317600000	2
beta-BHC	1965110000	1930080000	1919640000	1976280000	2153520000	1988920000	5
Decachlorobiphenyl	3675900000	3638830000	3681980000	3820210000	4411300000	3845640000	8
delta-BHC	5032580000	4845250000	4682410000	4626330000	4491990000	4735710000	4
Dieldrin	4518600000	4388970000	4327740000	4347710000	4325860000	4381780000	2
Endosulfan I	4036260000	3934540000	3904680000	3979590000	4077800000	3986580000	2
Endosulfan II	3796570000	3715310000	3681290000	3767040000	3737420000	3739530000	1
Endosulfan sulfate	3706520000	3626300000	3609280000	3706820000	3819330000	3693650000	2
Endrin	3538690000	3451940000	3434060000	3498850000	3100040000	3404720000	5
Endrin aldehyde	3123920000	3068890000	3064770000	3158970000	3385600000	3160430000	4
Endrin ketone	4300600000	4199470000	4213040000	4281500000	4343010000	4267520000	1
gamma-BHC (Lindane)	4983380000	4798550000	4658170000	4606370000	4503230000	4709940000	4
gamma-Chlordane	4438420000	4307340000	4231380000	4301670000	4415360000	4338830000	2
Heptachlor	4844080000	4715390000	4629500000	4679640000	4732940000	4720310000	2
Heptachlor epoxide	4316300000	4215090000	4165700000	4257130000	4322680000	4255380000	2
Methoxychlor	1924140000	1903960000	1935750000	2006380000	1984890000	1951030000	2
Tetrachloro-m-xylene	3209080000	3135420000	3127500000	3185970000	3297890000	3191170000	2



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

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG NO.: Q1421

Instrument ID: ECD_L Date(s) Analyzed: 02/21/2025 02/21/2025

GC Column: ZB-MR1 ID: 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Toxaphene	500	1	6.23	6.13	6.33	27502600
		2	6.44	6.34	6.54	15755600
		3	7.05	6.95	7.15	85691600
		4	7.15	7.05	7.25	64144500
		5	7.93	7.83	8.03	48033300



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

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG NO.: Q1421

Instrument ID: ECD_L Date(s) Analyzed: 02/21/2025 02/21/2025

GC Column: ZB-MR2 ID: 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Toxaphene	500	1	5.00	4.90	5.10	27519700
		2	5.32	5.22	5.42	26638800
		3	5.68	5.58	5.78	28297800
		4	6.59	6.49	6.69	98473700
		5	7.03	6.93	7.13	90711700

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022125\
 Data File : PL094326.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Feb 2025 10:56
 Operator : AR\AJ
 Sample : PSTDICC100
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PSTDICC100

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 21 11:49:18 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
 Quant Title : GC Extractables
 QLast Update : Fri Feb 21 11:46:00 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
1)	SA Tetrachlo...	3.536	2.770	244.1E6	320.9E6	99.945	101.288
28)	SA Decachlor...	9.049	7.904	193.3E6	367.6E6	97.541	99.917
Target Compounds							
2)	A alpha-BHC	3.992	3.273	374.9E6	521.3E6	101.707	103.239
3)	MA gamma-BHC...	4.324	3.602	363.7E6	498.3E6	101.413	103.373
4)	MA Heptachlor	4.911	3.940	323.8E6	484.4E6	100.472	102.265
5)	MB Aldrin	5.253	4.219	328.2E6	482.1E6	100.407	103.040
6)	B beta-BHC	4.523	3.902	150.1E6	196.5E6	100.508	101.171
7)	B delta-BHC	4.769	4.131	348.2E6	503.3E6	101.888	103.604
8)	B Heptachlo...	5.679	4.722	285.5E6	431.6E6	99.766	101.776
9)	A Endosulfan I	6.065	5.092	254.8E6	403.6E6	98.873	101.657
10)	B gamma-Chl...	5.935	4.972	275.0E6	443.8E6	99.936	102.388
11)	B alpha-Chl...	6.015	5.036	272.8E6	437.3E6	99.795	102.124
12)	B 4,4'-DDE	6.189	5.224	249.4E6	428.2E6	99.738	101.939
13)	MA Dieldrin	6.340	5.355	269.3E6	451.9E6	99.984	102.158
14)	MA Endrin	6.570	5.631	229.3E6	353.9E6	99.090	101.501
15)	B Endosulfa...	6.790	5.926	227.5E6	379.7E6	98.722	101.542
16)	A 4,4'-DDD	6.706	5.779	180.4E6	333.5E6	99.814	103.023
17)	MA 4,4'-DDT	7.020	6.029	197.5E6	370.3E6	98.875	102.397
18)	B Endrin al...	6.921	6.105	178.3E6	312.4E6	98.232	100.956
19)	B Endosulfa...	7.154	6.328	206.7E6	370.7E6	98.621	101.329
20)	A Methoxychlor	7.496	6.605	103.4E6	192.4E6	98.164	99.699
21)	B Endrin ke...	7.640	6.833	234.2E6	430.1E6	98.983	101.028
22)	Mirex	8.112	7.013	185.1E6	336.6E6	97.670	99.535

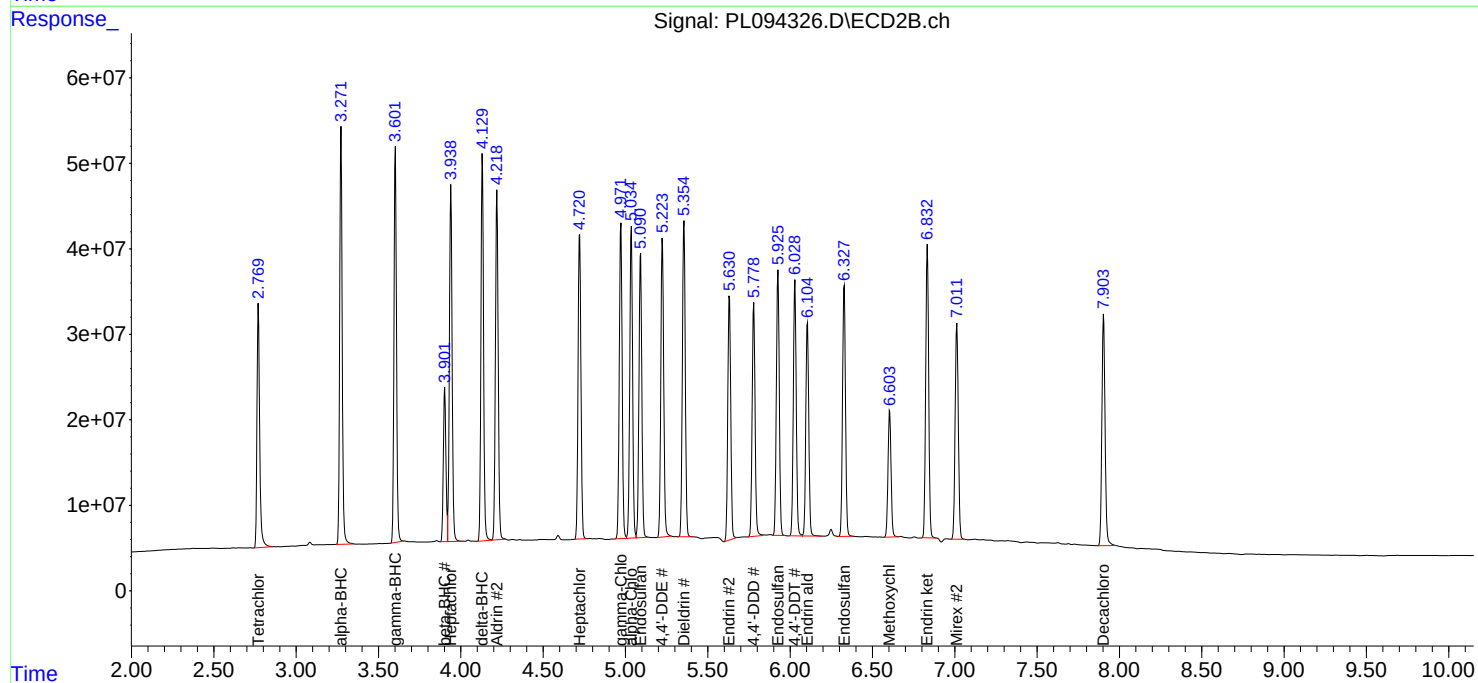
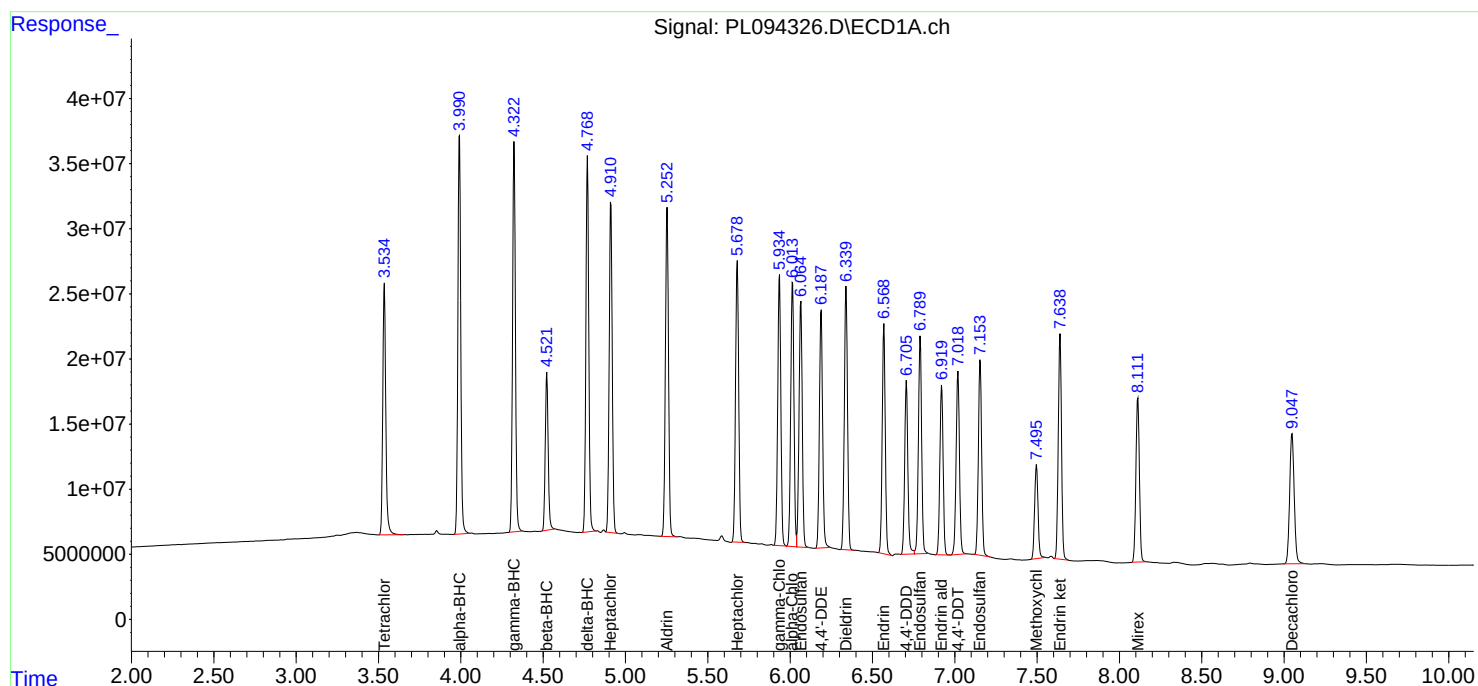
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

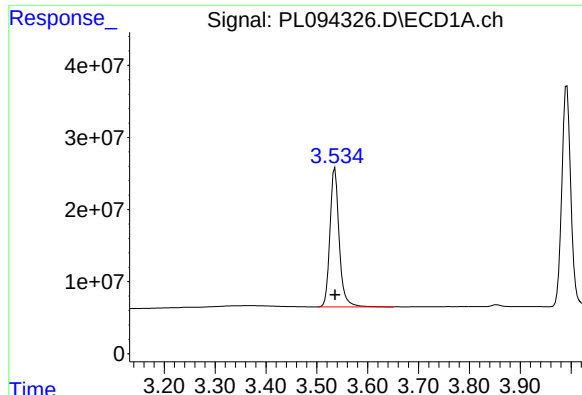
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022125\
Data File : PL094326.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2025 10:56
Operator : AR\AJ
Sample : PSTDICC100
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PSTDICC100

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 21 11:49:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 11:46:00 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

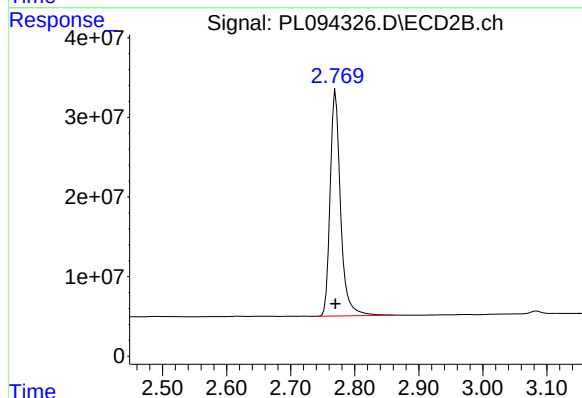




#1 Tetrachloro-m-xylene

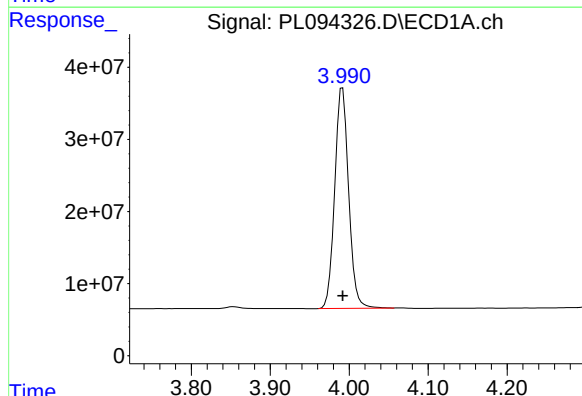
R.T.: 3.536 min
Delta R.T.: 0.000 min
Response: 244080878
Conc: 99.94 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC100



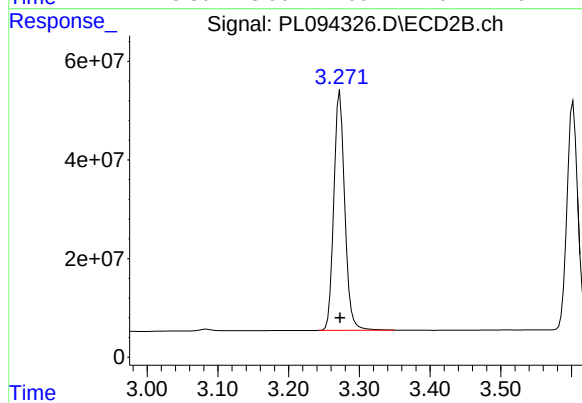
#1 Tetrachloro-m-xylene

R.T.: 2.770 min
Delta R.T.: 0.000 min
Response: 320908467
Conc: 101.29 ng/ml



#2 alpha-BHC

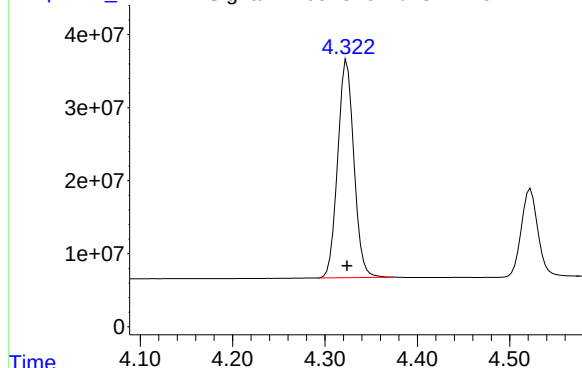
R.T.: 3.992 min
Delta R.T.: 0.000 min
Response: 374881052
Conc: 101.71 ng/ml



#2 alpha-BHC

R.T.: 3.273 min
Delta R.T.: 0.000 min
Response: 521323563
Conc: 103.24 ng/ml

Response_ Signal: PL094326.D\ECD1A.ch

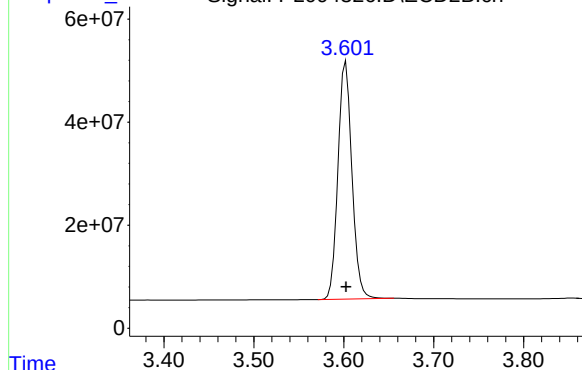


#3 gamma-BHC (Lindane)

R.T.: 4.324 min
Delta R.T.: 0.000 min
Response: 363660194
Conc: 101.41 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC100

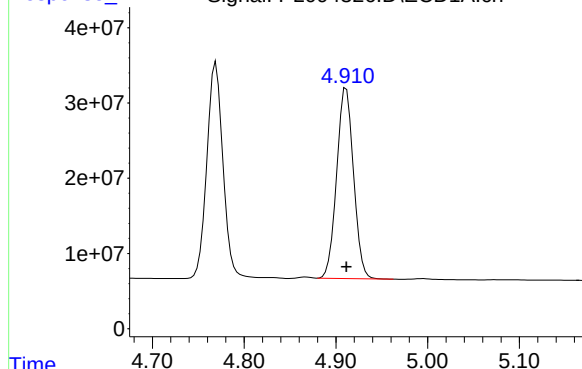
Time Response_ Signal: PL094326.D\ECD2B.ch



#3 gamma-BHC (Lindane)

R.T.: 3.602 min
Delta R.T.: 0.000 min
Response: 498337501
Conc: 103.37 ng/ml

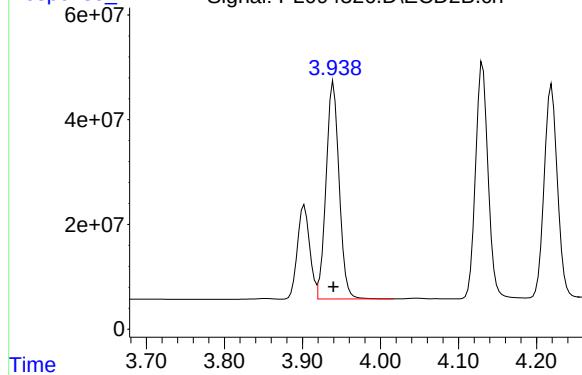
Time Response_ Signal: PL094326.D\ECD1A.ch



#4 Heptachlor

R.T.: 4.911 min
Delta R.T.: 0.000 min
Response: 323802563
Conc: 100.47 ng/ml

Time Response_ Signal: PL094326.D\ECD2B.ch



#4 Heptachlor

R.T.: 3.940 min
Delta R.T.: 0.000 min
Response: 484407832
Conc: 102.26 ng/ml

Response_ Signal: PL094326.D\ECD1A.ch

#5 Aldrin

R.T.: 5.253 min
Delta R.T.: 0.000 min
Response: 328177434
Conc: 100.41 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC100

Time

Response_ Signal: PL094326.D\ECD2B.ch

#5 Aldrin

R.T.: 4.219 min
Delta R.T.: 0.000 min
Response: 482071476
Conc: 103.04 ng/ml

Time

Response_ Signal: PL094326.D\ECD1A.ch

#6 beta-BHC

R.T.: 4.523 min
Delta R.T.: 0.000 min
Response: 150102836
Conc: 100.51 ng/ml

Time

Response_ Signal: PL094326.D\ECD2B.ch

#6 beta-BHC

R.T.: 3.902 min
Delta R.T.: 0.000 min
Response: 196511241
Conc: 101.17 ng/ml

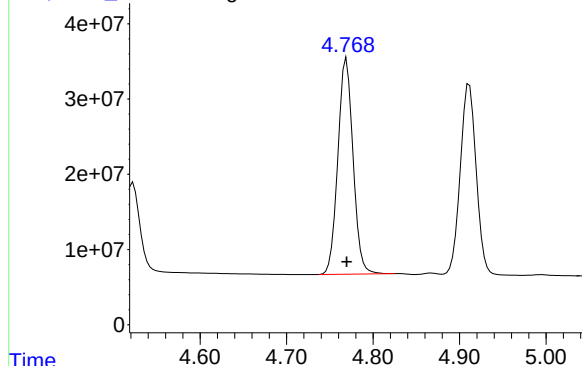
Time

Response_ Signal: PL094326.D\ECD1A.ch

#7 delta-BHC

R.T.: 4.769 min
Delta R.T.: 0.000 min
Response: 348229719
Conc: 101.89 ng/ml

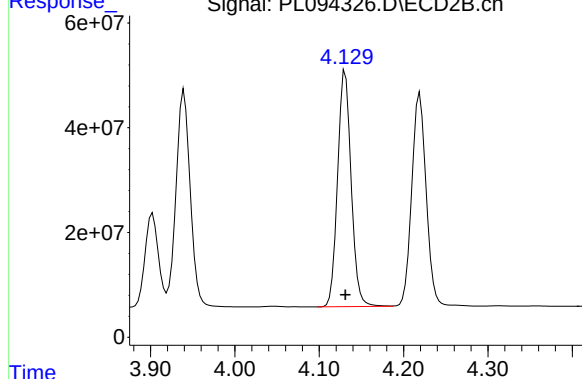
Instrument :
ECD_L
ClientSampleId :
PSTDICC100



Time Response_ Signal: PL094326.D\ECD2B.ch

#7 delta-BHC

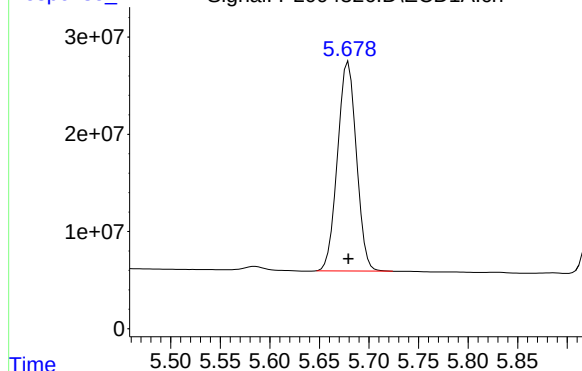
R.T.: 4.131 min
Delta R.T.: 0.000 min
Response: 503257856
Conc: 103.60 ng/ml



Time Response_ Signal: PL094326.D\ECD1A.ch

#8 Heptachlor epoxide

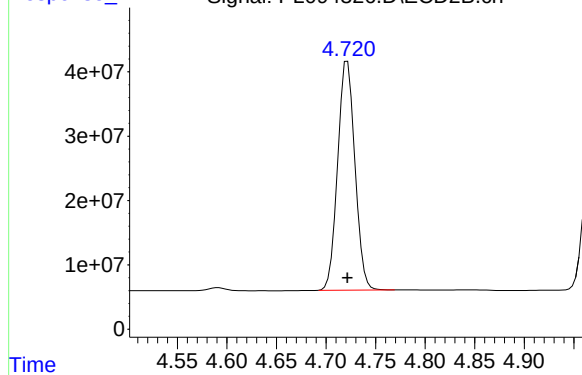
R.T.: 5.679 min
Delta R.T.: 0.000 min
Response: 285473896
Conc: 99.77 ng/ml

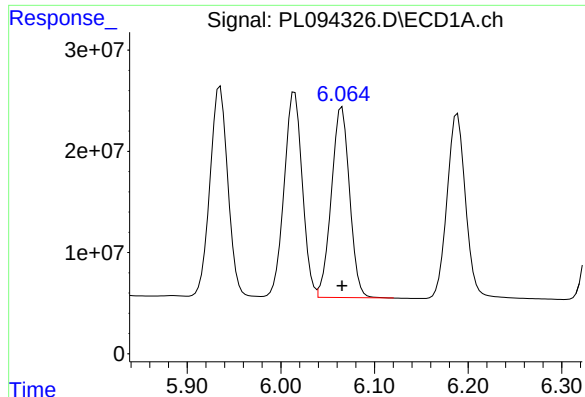


Time Response_ Signal: PL094326.D\ECD2B.ch

#8 Heptachlor epoxide

R.T.: 4.722 min
Delta R.T.: 0.000 min
Response: 431630033
Conc: 101.78 ng/ml

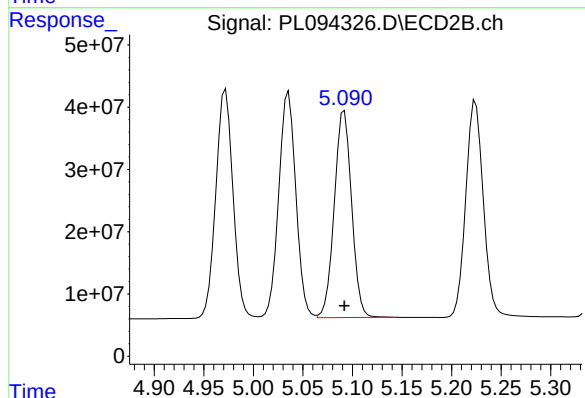




#9 Endosulfan I

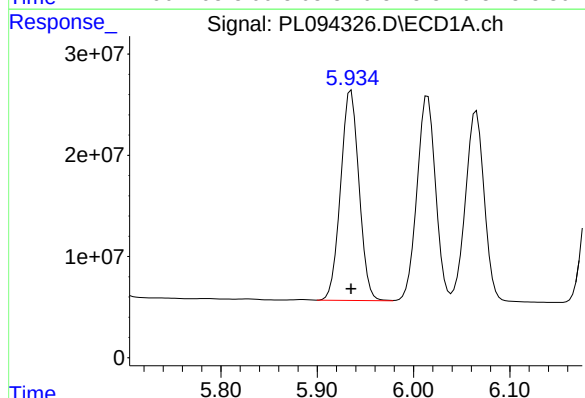
R.T.: 6.065 min
Delta R.T.: 0.000 min
Response: 254769255
Conc: 98.87 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC100



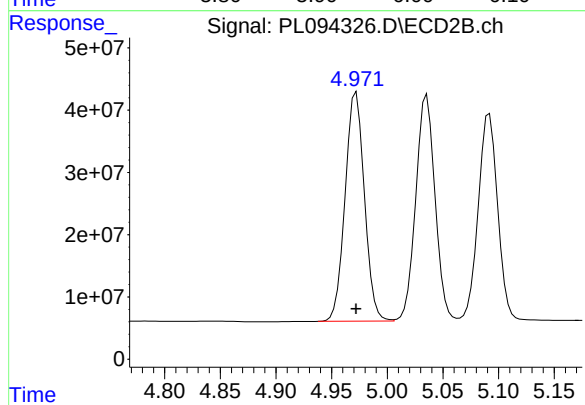
#9 Endosulfan I

R.T.: 5.092 min
Delta R.T.: 0.000 min
Response: 403626064
Conc: 101.66 ng/ml



#10 gamma-Chlordane

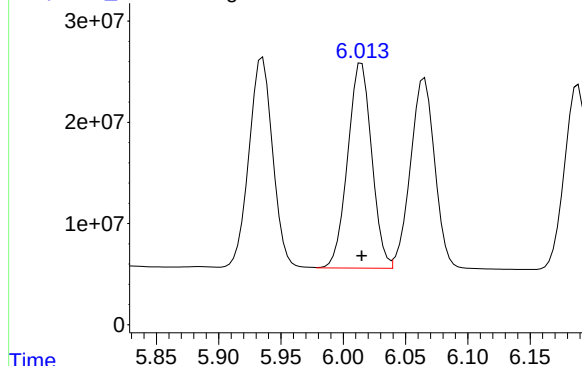
R.T.: 5.935 min
Delta R.T.: 0.000 min
Response: 274967783
Conc: 99.94 ng/ml



#10 gamma-Chlordane

R.T.: 4.972 min
Delta R.T.: 0.000 min
Response: 443841638
Conc: 102.39 ng/ml

Response_ Signal: PL094326.D\ECD1A.ch



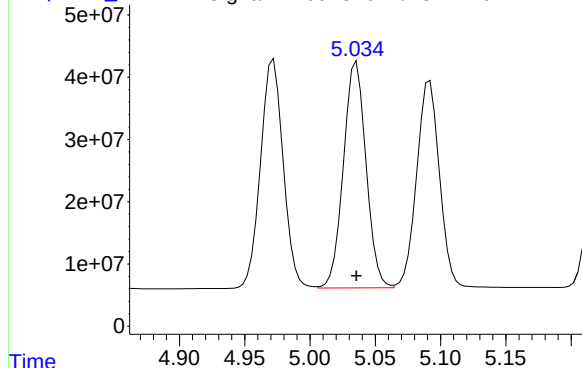
#11 alpha-Chlordane

R.T.: 6.015 min
Delta R.T.: 0.000 min
Response: 272776667
Conc: 99.79 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC100

Time

Response_ Signal: PL094326.D\ECD2B.ch

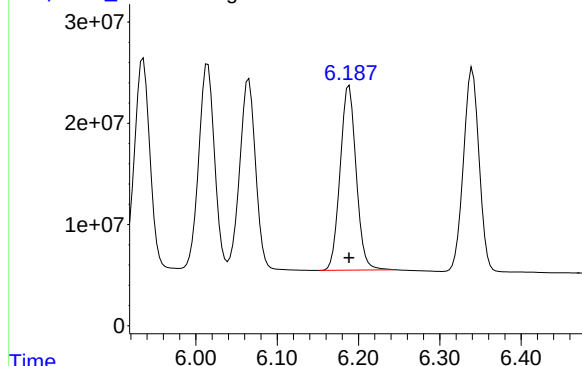


#11 alpha-Chlordane

R.T.: 5.036 min
Delta R.T.: 0.000 min
Response: 437347937
Conc: 102.12 ng/ml

Time

Response_ Signal: PL094326.D\ECD1A.ch

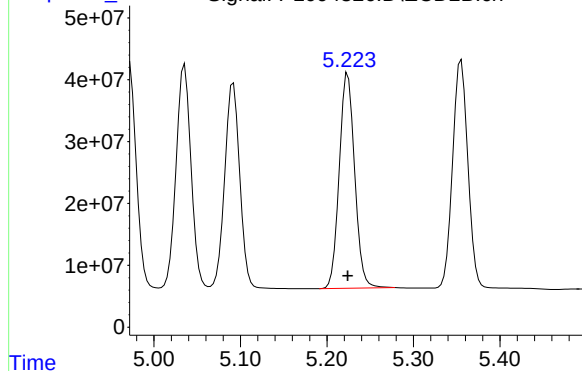


#12 4,4'-DDE

R.T.: 6.189 min
Delta R.T.: 0.000 min
Response: 249350241
Conc: 99.74 ng/ml

Time

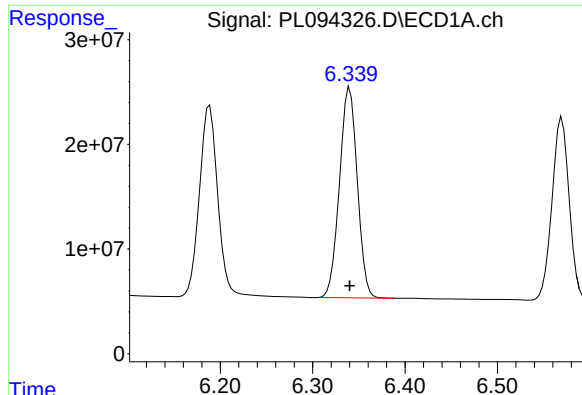
Response_ Signal: PL094326.D\ECD2B.ch



#12 4,4'-DDE

R.T.: 5.224 min
Delta R.T.: 0.000 min
Response: 428166105
Conc: 101.94 ng/ml

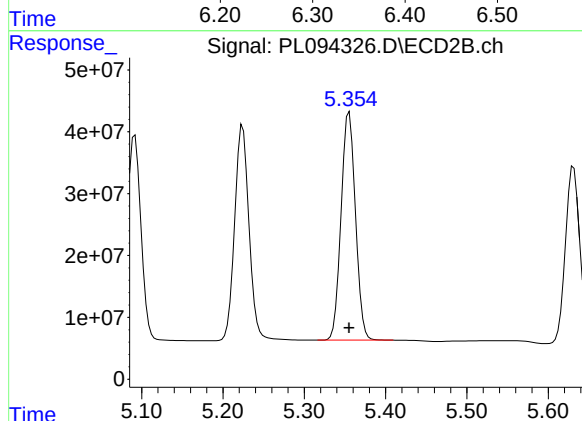
Time



#13 Dieldrin

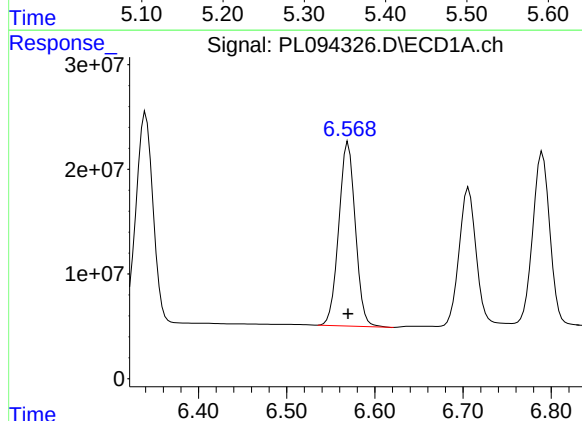
R.T.: 6.340 min
Delta R.T.: 0.000 min
Response: 269268843
Conc: 99.98 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC100



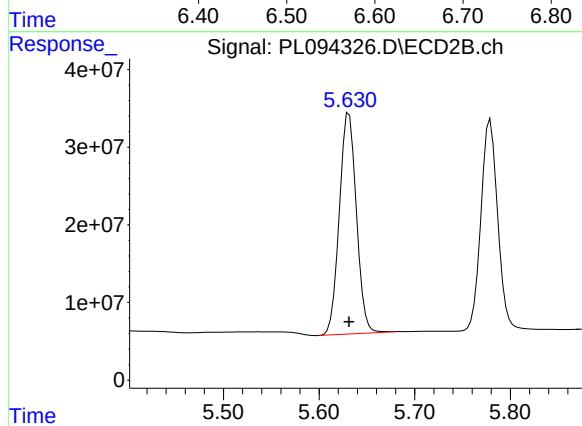
#13 Dieldrin

R.T.: 5.355 min
Delta R.T.: 0.000 min
Response: 451860382
Conc: 102.16 ng/ml



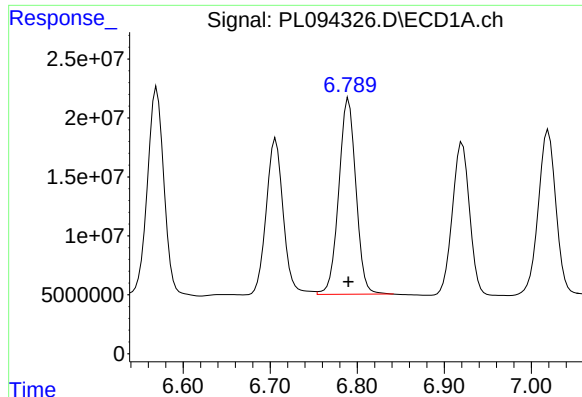
#14 Endrin

R.T.: 6.570 min
Delta R.T.: 0.000 min
Response: 229301838
Conc: 99.09 ng/ml



#14 Endrin

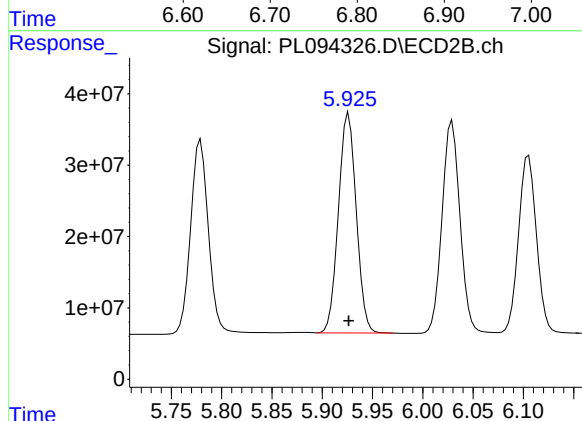
R.T.: 5.631 min
Delta R.T.: 0.000 min
Response: 353869306
Conc: 101.50 ng/ml



#15 Endosulfan II

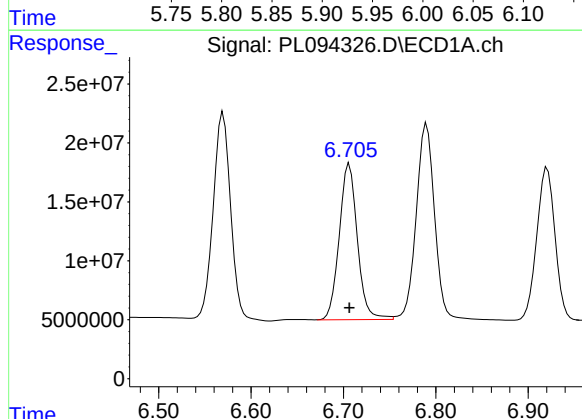
R.T.: 6.790 min
Delta R.T.: 0.000 min
Response: 227525345
Conc: 98.72 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC100



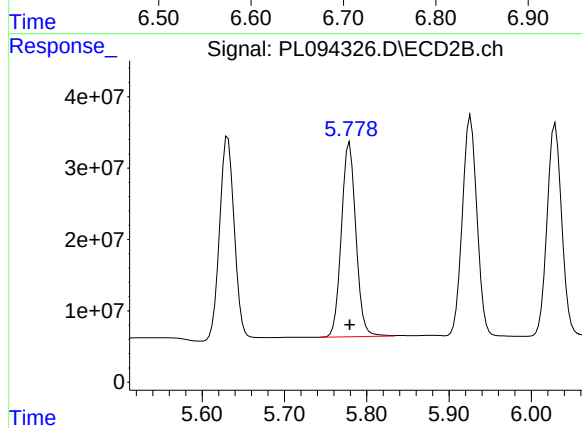
#15 Endosulfan II

R.T.: 5.926 min
Delta R.T.: 0.000 min
Response: 379657255
Conc: 101.54 ng/ml



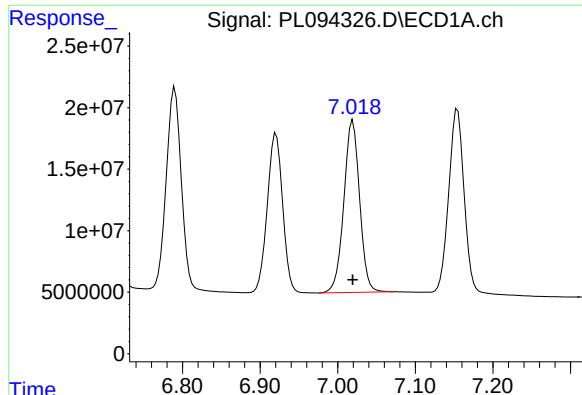
#16 4,4'-DDD

R.T.: 6.706 min
Delta R.T.: 0.000 min
Response: 180357993
Conc: 99.81 ng/ml



#16 4,4'-DDD

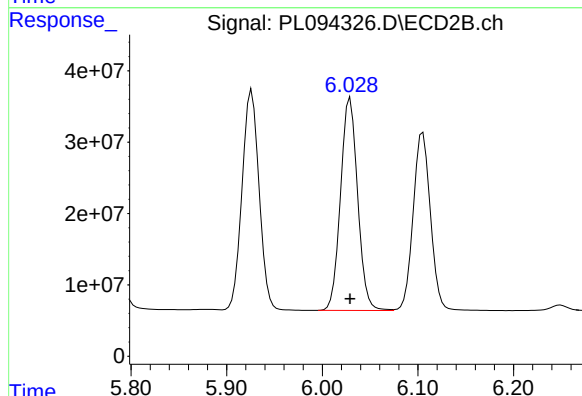
R.T.: 5.779 min
Delta R.T.: 0.000 min
Response: 333515693
Conc: 103.02 ng/ml



#17 4,4'-DDT

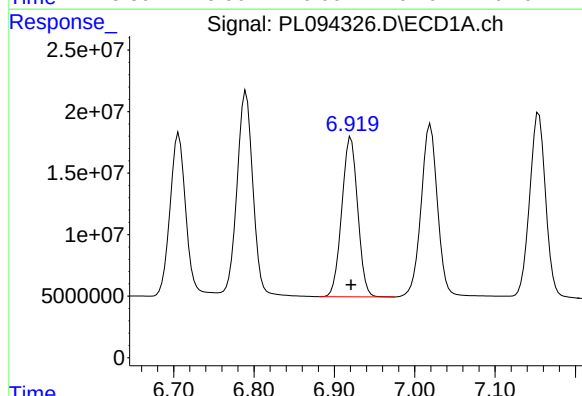
R.T.: 7.020 min
Delta R.T.: 0.000 min
Response: 197475819
Conc: 98.87 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC100



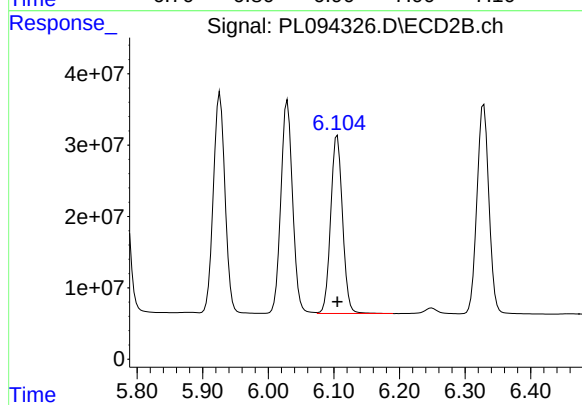
#17 4,4'-DDT

R.T.: 6.029 min
Delta R.T.: 0.000 min
Response: 370310073
Conc: 102.40 ng/ml



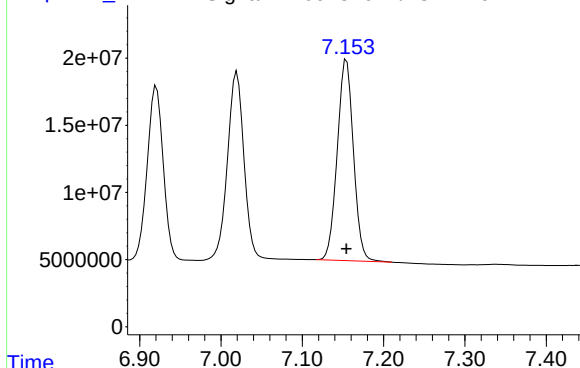
#18 Endrin aldehyde

R.T.: 6.921 min
Delta R.T.: 0.000 min
Response: 178321332
Conc: 98.23 ng/ml



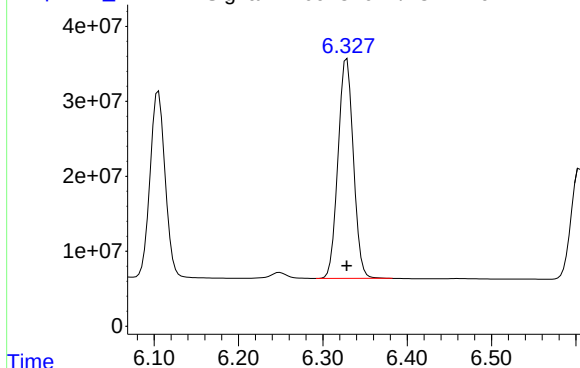
#18 Endrin aldehyde

R.T.: 6.105 min
Delta R.T.: 0.000 min
Response: 312391805
Conc: 100.96 ng/ml

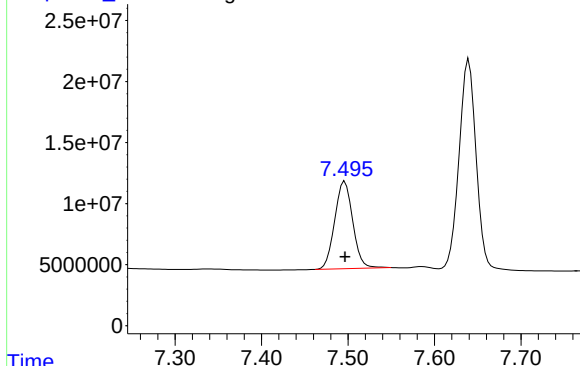


R.T.: 7.154 min
Delta R.T.: 0.000 min
Response: 206652637
Conc: 98.62 ng/ml

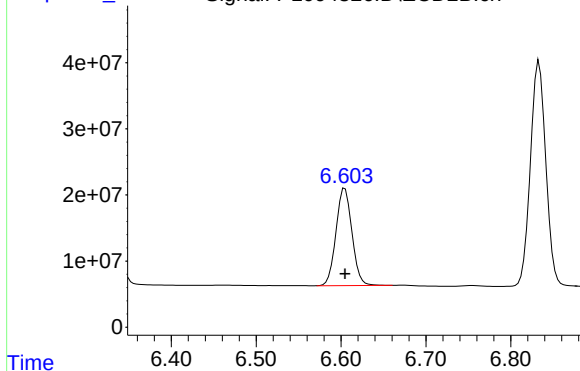
Instrument :
ECD_L
ClientSampleId :
PSTDICC100



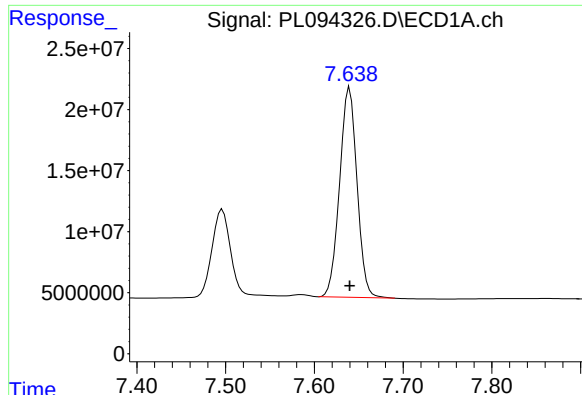
R.T.: 6.328 min
Delta R.T.: 0.000 min
Response: 370651983
Conc: 101.33 ng/ml



R.T.: 7.496 min
Delta R.T.: 0.000 min
Response: 103413950
Conc: 98.16 ng/ml



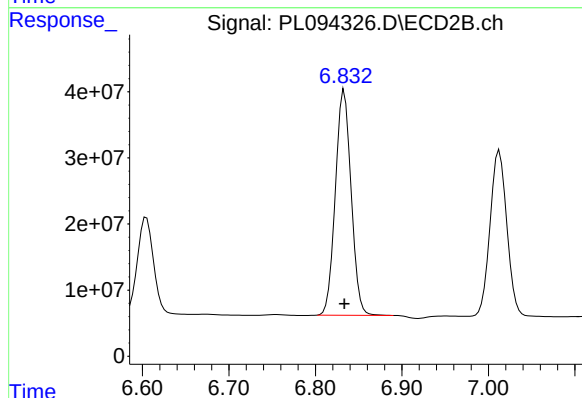
R.T.: 6.605 min
Delta R.T.: 0.000 min
Response: 192414341
Conc: 99.70 ng/ml



#21 Endrin ketone

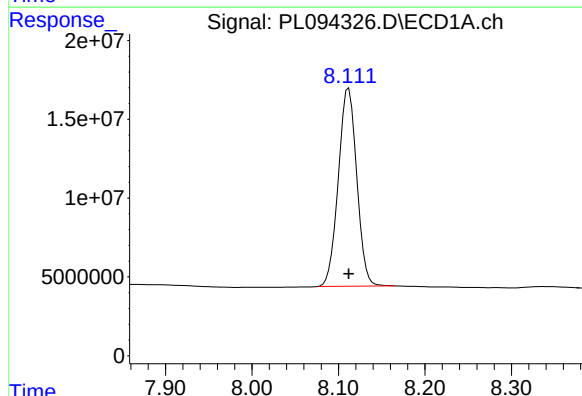
R.T.: 7.640 min
Delta R.T.: 0.000 min
Response: 234185218
Conc: 98.98 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC100



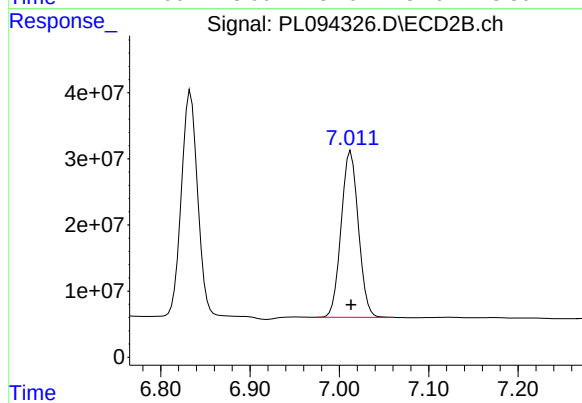
#21 Endrin ketone

R.T.: 6.833 min
Delta R.T.: 0.000 min
Response: 430059789
Conc: 101.03 ng/ml



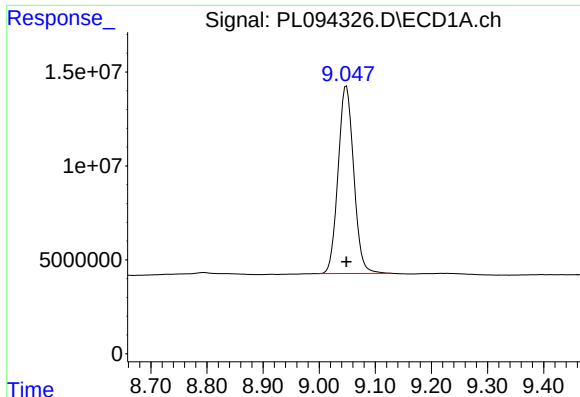
#22 Mirex

R.T.: 8.112 min
Delta R.T.: 0.000 min
Response: 185135661
Conc: 97.67 ng/ml



#22 Mirex

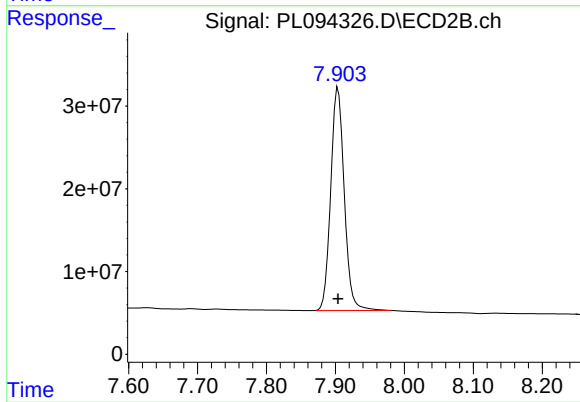
R.T.: 7.013 min
Delta R.T.: 0.000 min
Response: 336553476
Conc: 99.53 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.049 min
Delta R.T.: 0.000 min
Response: 193317194
Conc: 97.54 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC100



#28 Decachlorobiphenyl

R.T.: 7.904 min
Delta R.T.: 0.000 min
Response: 367590073
Conc: 99.92 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022125\
 Data File : PL094327.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Feb 2025 11:10
 Operator : AR\AJ
 Sample : PSTDICC075
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PSTDICC075

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 21 11:51:20 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
 Quant Title : GC Extractables
 QLast Update : Fri Feb 21 11:46:00 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
1)	SA Tetrachlo...	3.535	2.770	182.2E6	235.2E6	74.750	74.479
28)	SA Decachlor...	9.048	7.903	147.2E6	272.9E6	74.527	74.453
Target Compounds							
2)	A alpha-BHC	3.992	3.272	273.7E6	375.8E6	74.508	74.607
3)	MA gamma-BHC...	4.324	3.602	265.8E6	359.9E6	74.420	74.769
4)	MA Heptachlor	4.911	3.940	239.6E6	353.7E6	74.572	74.774
5)	MB Aldrin	5.253	4.219	241.3E6	350.1E6	74.208	74.890
6)	B beta-BHC	4.522	3.902	112.1E6	144.8E6	75.033	74.683
7)	B delta-BHC	4.769	4.131	254.6E6	363.4E6	74.662	74.874
8)	B Heptachlo...	5.679	4.721	212.3E6	316.1E6	74.465	74.694
9)	A Endosulfan I	6.065	5.091	190.2E6	295.1E6	74.206	74.546
10)	B gamma-Chl...	5.935	4.971	204.3E6	323.1E6	74.499	74.681
11)	B alpha-Chl...	6.014	5.035	202.0E6	319.4E6	74.259	74.723
12)	B 4,4'-DDE	6.188	5.223	185.3E6	313.7E6	74.411	74.788
13)	MA Dieldrin	6.339	5.354	200.4E6	329.2E6	74.602	74.612
14)	MA Endrin	6.569	5.630	172.1E6	258.9E6	74.570	74.505
15)	B Endosulfa...	6.789	5.925	170.8E6	278.6E6	74.391	74.684
16)	A 4,4'-DDD	6.705	5.778	134.7E6	241.2E6	74.687	74.663
17)	MA 4,4'-DDT	7.019	6.028	148.5E6	268.8E6	74.565	74.555
18)	B Endrin al...	6.919	6.104	135.0E6	230.2E6	74.565	74.588
19)	B Endosulfa...	7.154	6.327	156.2E6	272.0E6	74.693	74.567
20)	A Methoxychlor	7.496	6.603	78174777	142.8E6	74.469	74.324
21)	B Endrin ke...	7.639	6.832	175.9E6	315.0E6	74.565	74.323
22)	Mirex	8.111	7.012	140.5E6	249.6E6	74.416	74.198

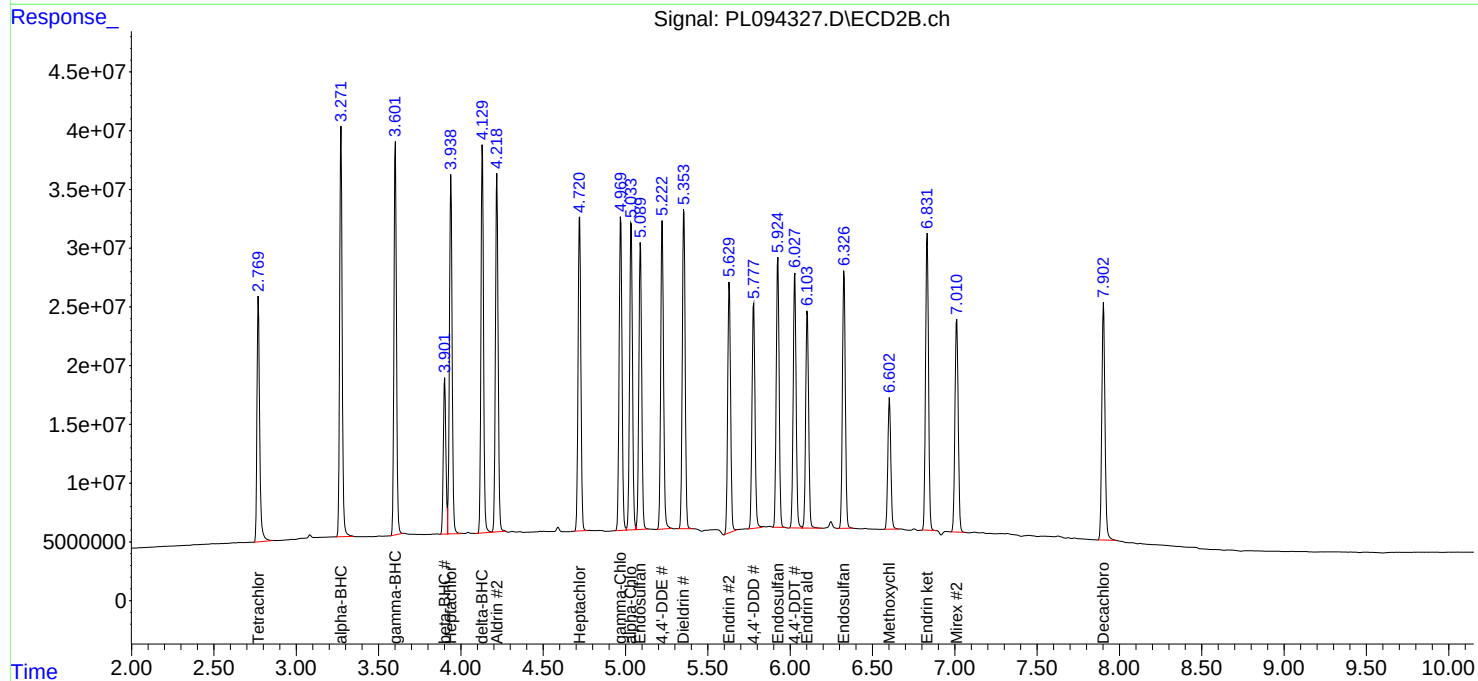
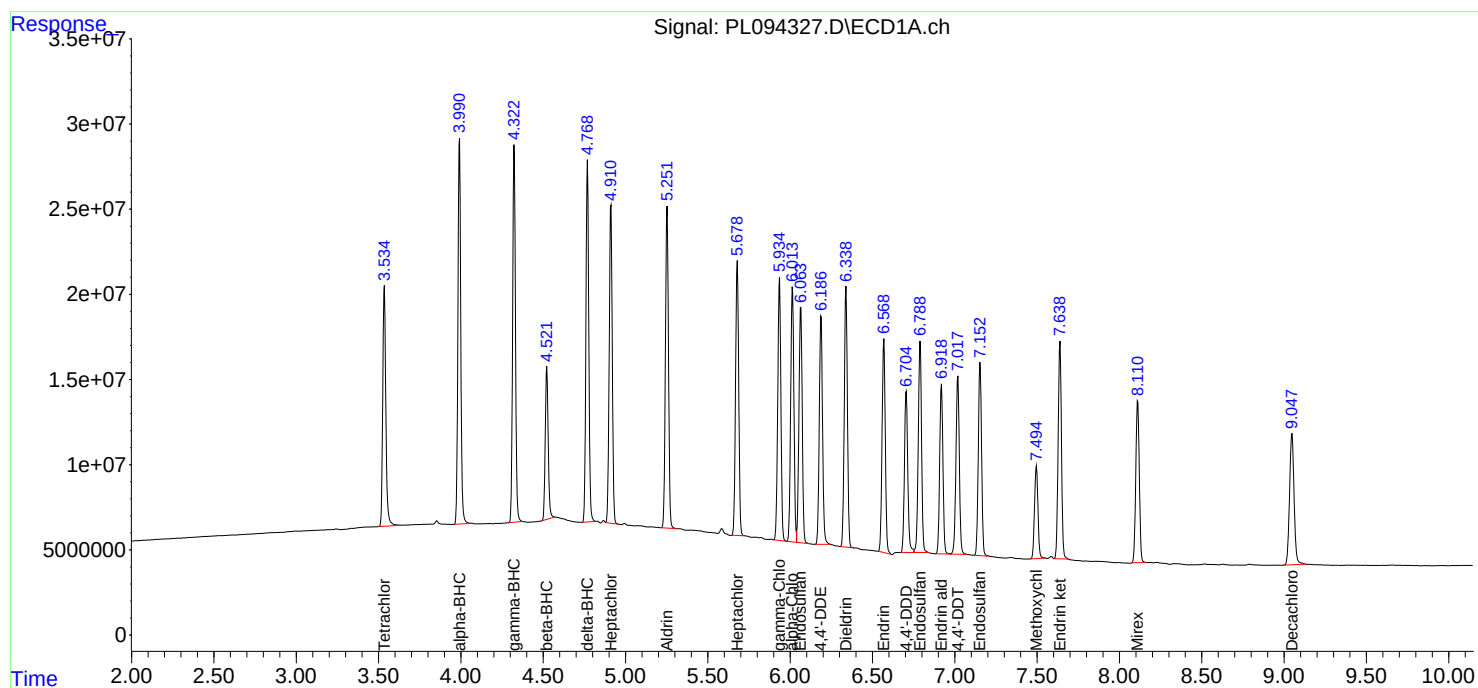
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022125\
Data File : PL094327.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2025 11:10
Operator : AR\AJ
Sample : PSTDICC075
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PSTDICC075

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 21 11:51:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 11:46:00 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm



Response_ Signal: PL094327.D\ECD1A.ch

#1 Tetrachloro-m-xylene

R.T.: 3.535 min
Delta R.T.: 0.000 min
Response: 182247975
Conc: 74.75 ng/ml

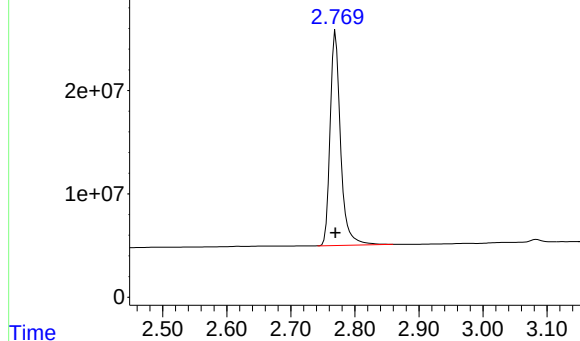
Instrument :
ECD_L
ClientSampleId :
PSTDICC075

Time 3.20 3.30 3.40 3.50 3.60 3.70 3.80 3.90

Response_ Signal: PL094327.D\ECD2B.ch

#1 Tetrachloro-m-xylene

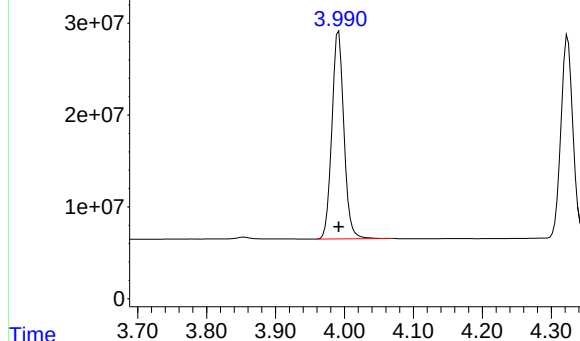
R.T.: 2.770 min
Delta R.T.: 0.000 min
Response: 235156311
Conc: 74.48 ng/ml



Response_ Signal: PL094327.D\ECD1A.ch

#2 alpha-BHC

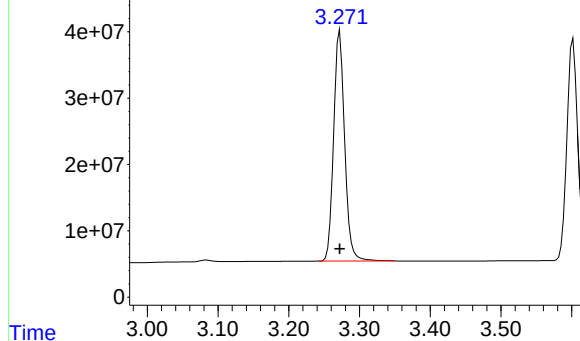
R.T.: 3.992 min
Delta R.T.: 0.000 min
Response: 273730464
Conc: 74.51 ng/ml

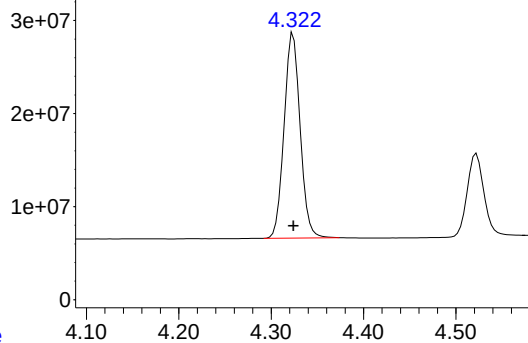


Response_ Signal: PL094327.D\ECD2B.ch

#2 alpha-BHC

R.T.: 3.272 min
Delta R.T.: 0.000 min
Response: 375754785
Conc: 74.61 ng/ml





R.T.: 4.324 min
Delta R.T.: 0.000 min
Response: 265840526
Conc: 74.42 ng/ml

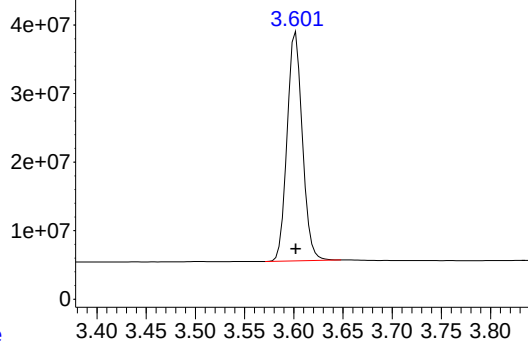
Instrument :
ECD_L
ClientSampleId :
PSTDICC075

Time

Response_

Signal: PL094327.D\ECD2B.ch

#3 gamma-BHC (Lindane)



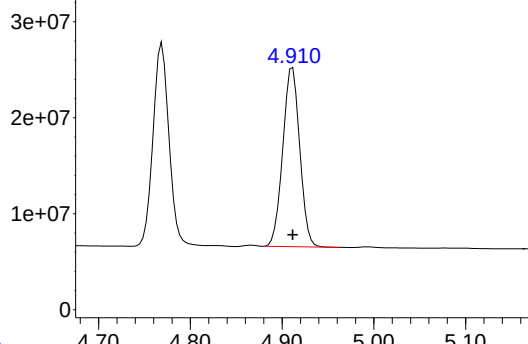
R.T.: 3.602 min
Delta R.T.: 0.000 min
Response: 359891294
Conc: 74.77 ng/ml

Time

Response_

Signal: PL094327.D\ECD1A.ch

#4 Heptachlor



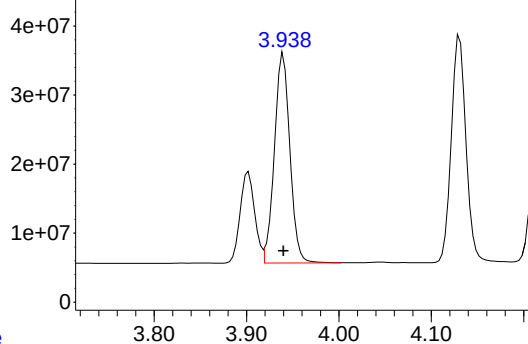
R.T.: 4.911 min
Delta R.T.: 0.000 min
Response: 239647140
Conc: 74.57 ng/ml

Time

Response_

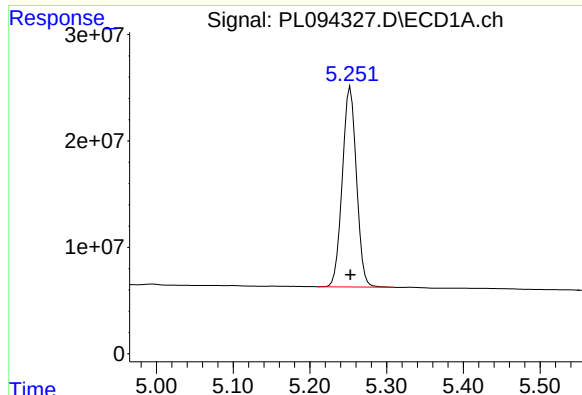
Signal: PL094327.D\ECD2B.ch

#4 Heptachlor



R.T.: 3.940 min
Delta R.T.: 0.000 min
Response: 353653897
Conc: 74.77 ng/ml

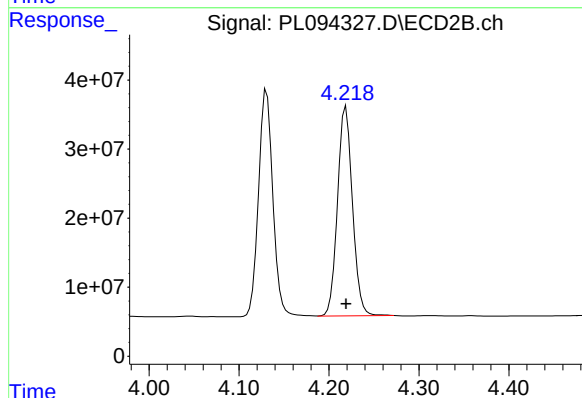
Time



#5 Aldrin

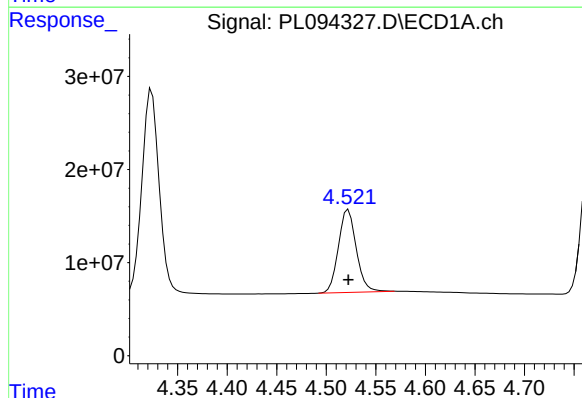
R.T.: 5.253 min
Delta R.T.: 0.000 min
Response: 241275600
Conc: 74.21 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC075



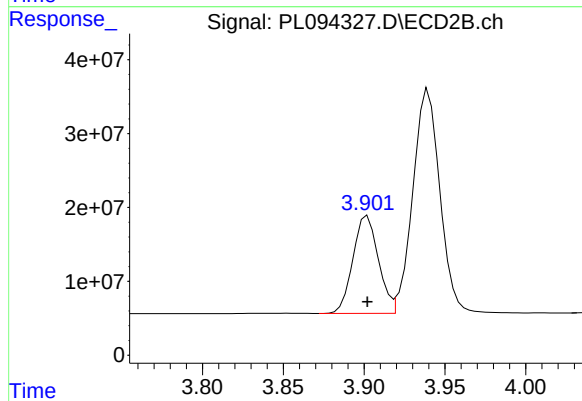
#5 Aldrin

R.T.: 4.219 min
Delta R.T.: 0.000 min
Response: 350114835
Conc: 74.89 ng/ml



#6 beta-BHC

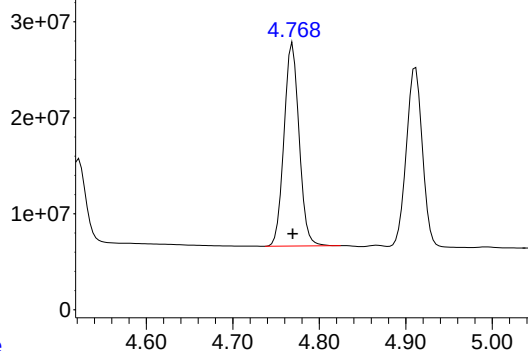
R.T.: 4.522 min
Delta R.T.: 0.000 min
Response: 112081688
Conc: 75.03 ng/ml



#6 beta-BHC

R.T.: 3.902 min
Delta R.T.: 0.000 min
Response: 144755641
Conc: 74.68 ng/ml

Response_ Signal: PL094327.D\ECD1A.ch

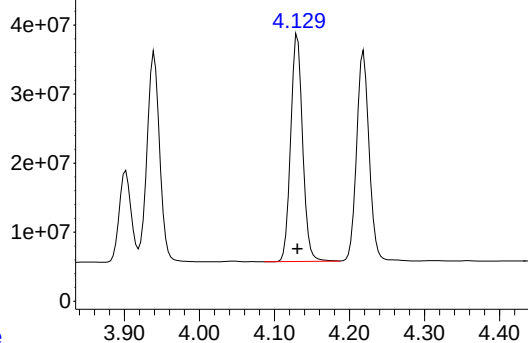


#7 delta-BHC

R.T.: 4.769 min
Delta R.T.: 0.000 min
Response: 254604577
Conc: 74.66 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC075

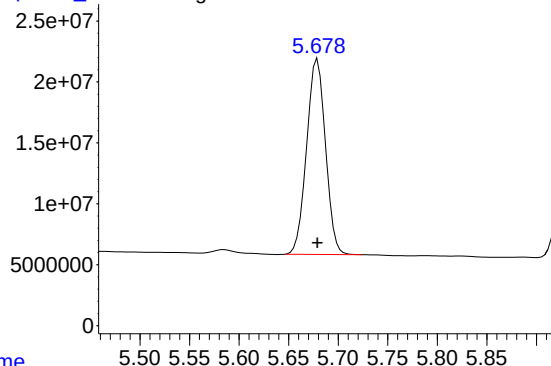
Time Response_ Signal: PL094327.D\ECD2B.ch



#7 delta-BHC

R.T.: 4.131 min
Delta R.T.: 0.000 min
Response: 363393465
Conc: 74.87 ng/ml

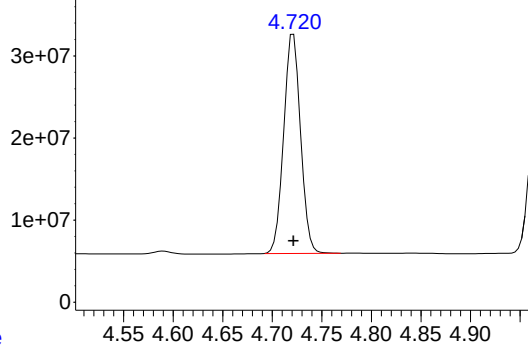
Time Response_ Signal: PL094327.D\ECD1A.ch



#8 Heptachlor epoxide

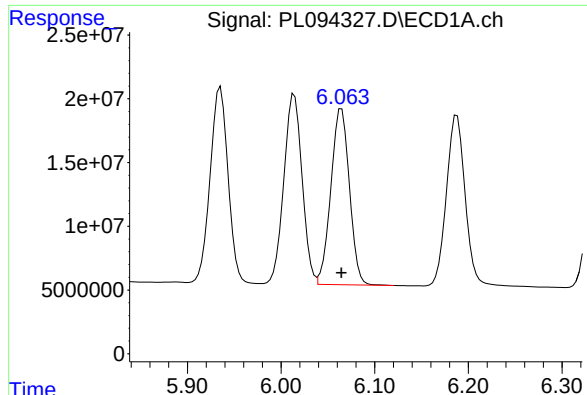
R.T.: 5.679 min
Delta R.T.: 0.000 min
Response: 212320820
Conc: 74.47 ng/ml

Time Response_ Signal: PL094327.D\ECD2B.ch



#8 Heptachlor epoxide

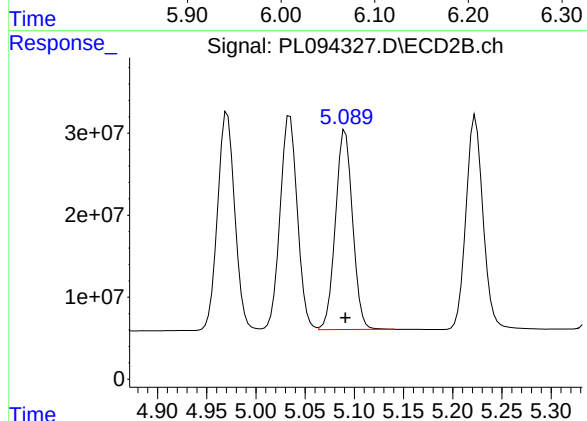
R.T.: 4.721 min
Delta R.T.: 0.000 min
Response: 316131667
Conc: 74.69 ng/ml



#9 Endosulfan I

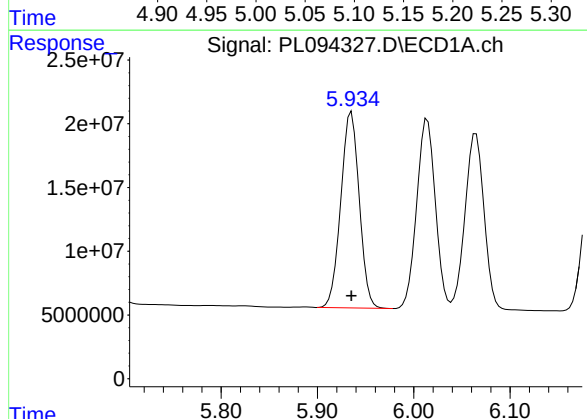
R.T.: 6.065 min
Delta R.T.: 0.000 min
Response: 190202447
Conc: 74.21 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC075



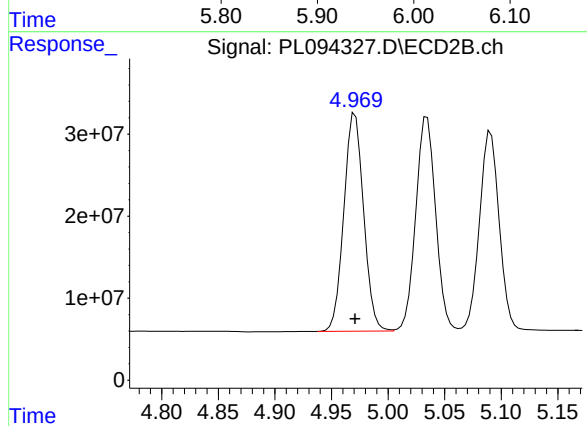
#9 Endosulfan I

R.T.: 5.091 min
Delta R.T.: 0.000 min
Response: 295090592
Conc: 74.55 ng/ml



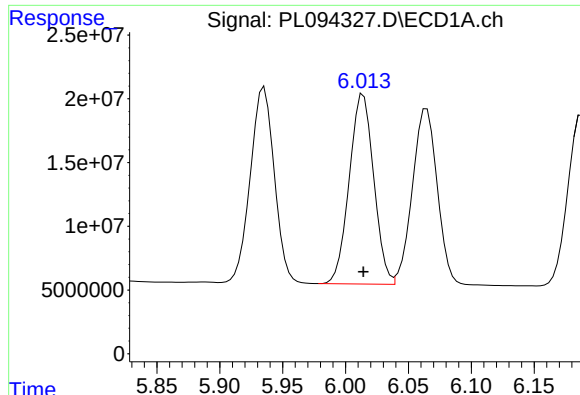
#10 gamma-Chlordane

R.T.: 5.935 min
Delta R.T.: 0.000 min
Response: 204296310
Conc: 74.50 ng/ml



#10 gamma-Chlordane

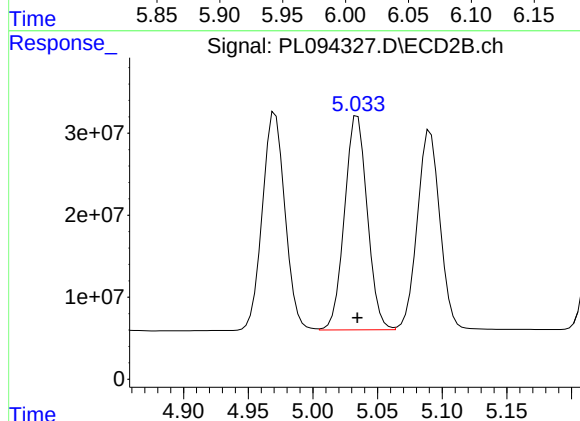
R.T.: 4.971 min
Delta R.T.: 0.000 min
Response: 323050588
Conc: 74.68 ng/ml



#11 alpha-Chlordane

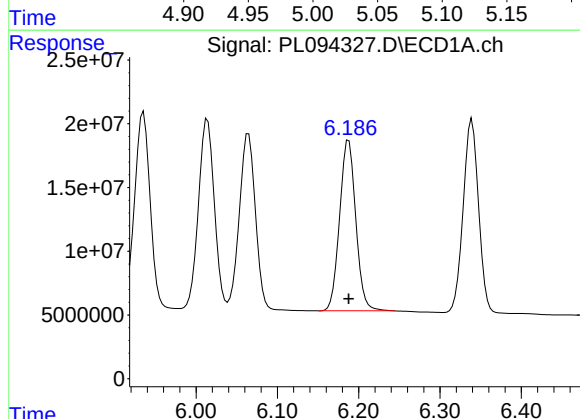
R.T.: 6.014 min
Delta R.T.: 0.000 min
Response: 201981791
Conc: 74.26 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC075



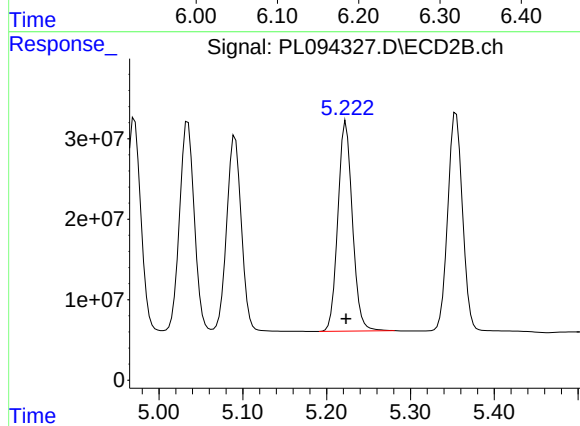
#11 alpha-Chlordane

R.T.: 5.035 min
Delta R.T.: 0.000 min
Response: 319410709
Conc: 74.72 ng/ml



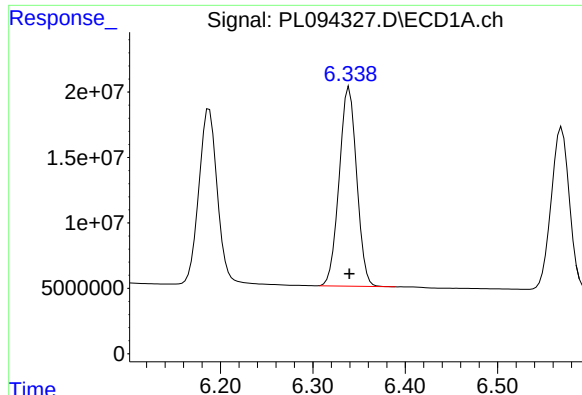
#12 4,4'-DDE

R.T.: 6.188 min
Delta R.T.: 0.000 min
Response: 185305270
Conc: 74.41 ng/ml



#12 4,4'-DDE

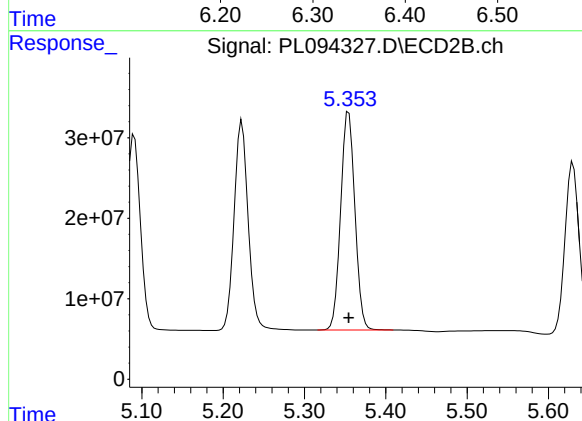
R.T.: 5.223 min
Delta R.T.: 0.000 min
Response: 313683056
Conc: 74.79 ng/ml



#13 Dieldrin

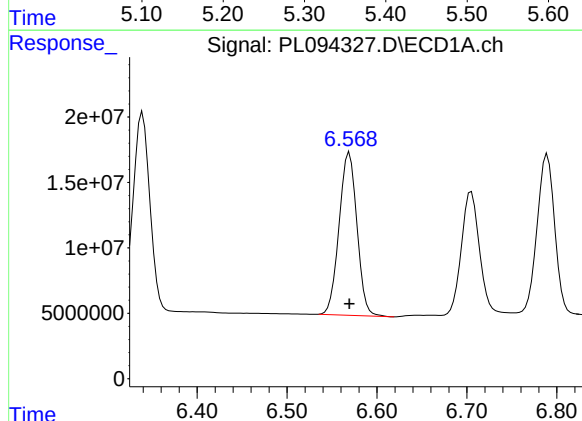
R.T.: 6.339 min
Delta R.T.: 0.000 min
Response: 200382589
Conc: 74.60 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC075



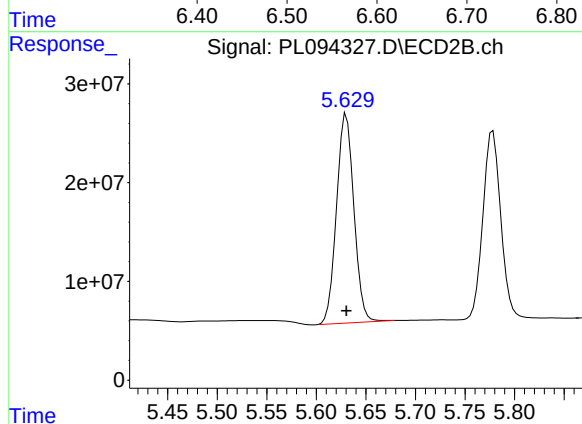
#13 Dieldrin

R.T.: 5.354 min
Delta R.T.: 0.000 min
Response: 329172901
Conc: 74.61 ng/ml



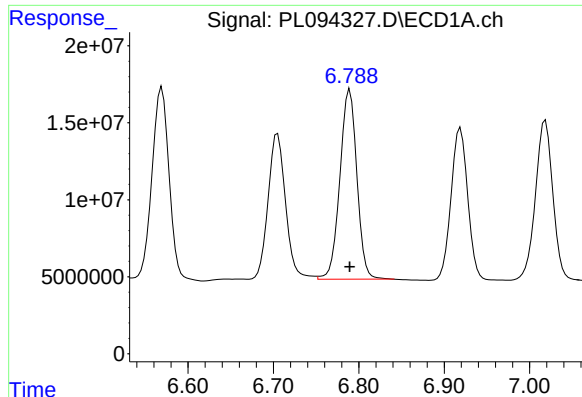
#14 Endrin

R.T.: 6.569 min
Delta R.T.: 0.000 min
Response: 172068961
Conc: 74.57 ng/ml



#14 Endrin

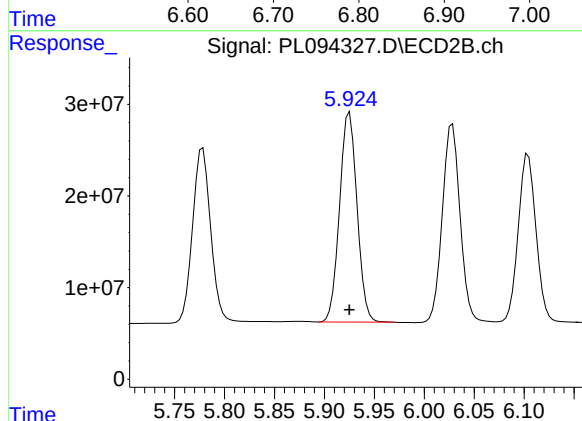
R.T.: 5.630 min
Delta R.T.: 0.000 min
Response: 258895673
Conc: 74.50 ng/ml



#15 Endosulfan II

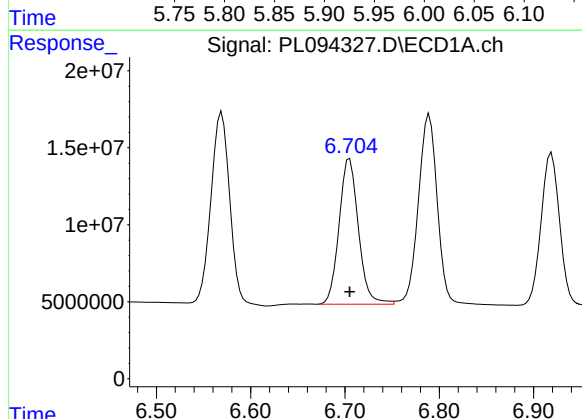
R.T.: 6.789 min
Delta R.T.: 0.000 min
Response: 170756921
Conc: 74.39 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC075



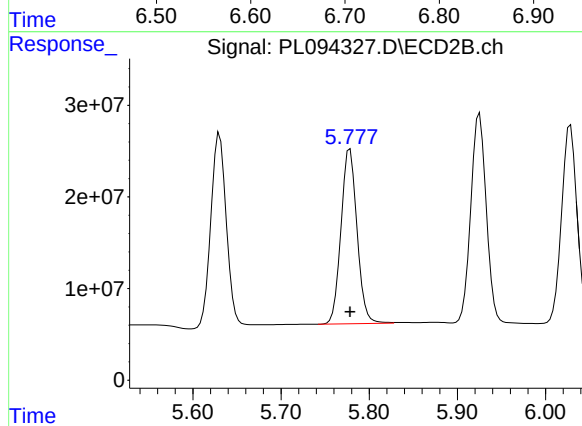
#15 Endosulfan II

R.T.: 5.925 min
Delta R.T.: 0.000 min
Response: 278648525
Conc: 74.68 ng/ml



#16 4,4'-DDD

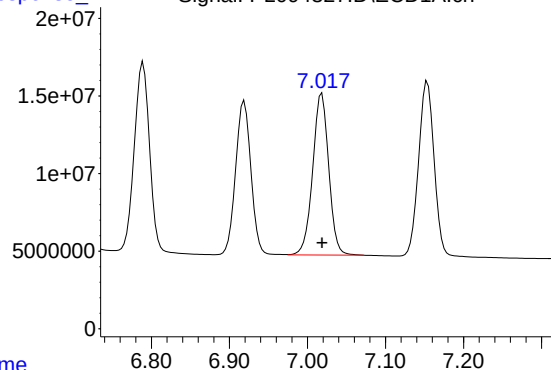
R.T.: 6.705 min
Delta R.T.: 0.000 min
Response: 134674174
Conc: 74.69 ng/ml



#16 4,4'-DDD

R.T.: 5.778 min
Delta R.T.: 0.000 min
Response: 241165389
Conc: 74.66 ng/ml

Response_ Signal: PL094327.D\ECD1A.ch

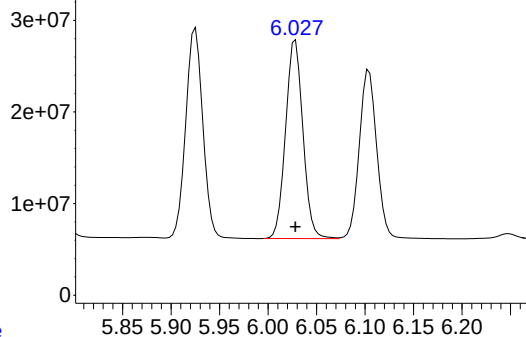


#17 4,4'-DDT

R.T.: 7.019 min
Delta R.T.: 0.000 min
Response: 148493140
Conc: 74.57 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC075

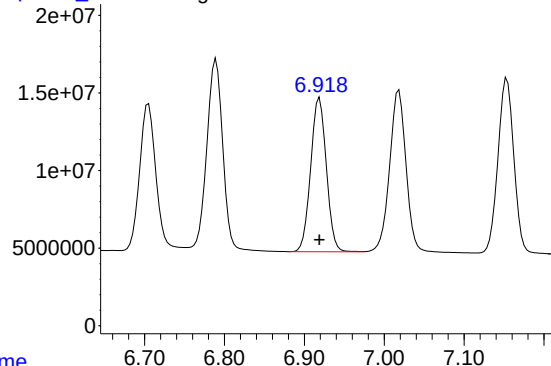
Time Response_ Signal: PL094327.D\ECD2B.ch



#17 4,4'-DDT

R.T.: 6.028 min
Delta R.T.: 0.000 min
Response: 268822084
Conc: 74.55 ng/ml

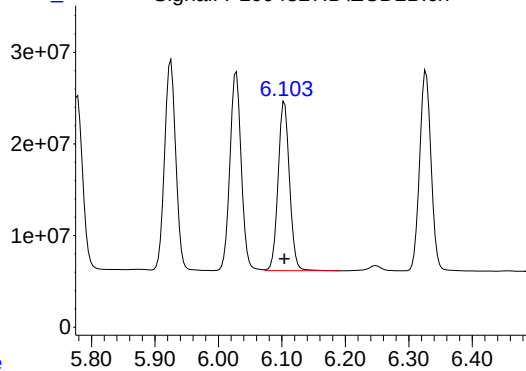
Time Response_ Signal: PL094327.D\ECD1A.ch



#18 Endrin aldehyde

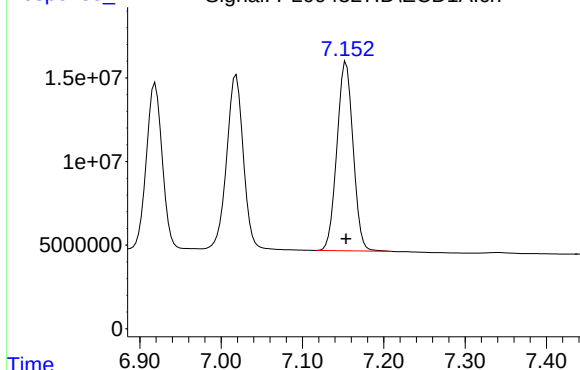
R.T.: 6.919 min
Delta R.T.: 0.000 min
Response: 134967694
Conc: 74.57 ng/ml

Time Response_ Signal: PL094327.D\ECD2B.ch



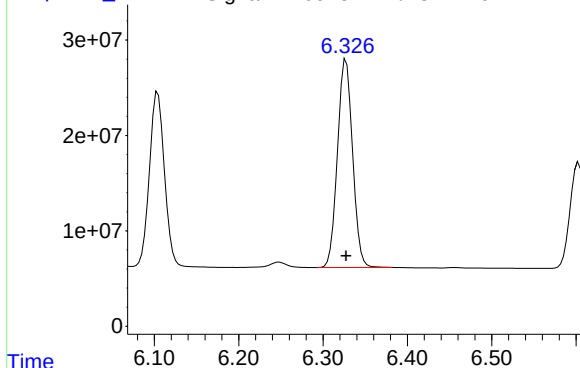
#18 Endrin aldehyde

R.T.: 6.104 min
Delta R.T.: 0.000 min
Response: 230166734
Conc: 74.59 ng/ml

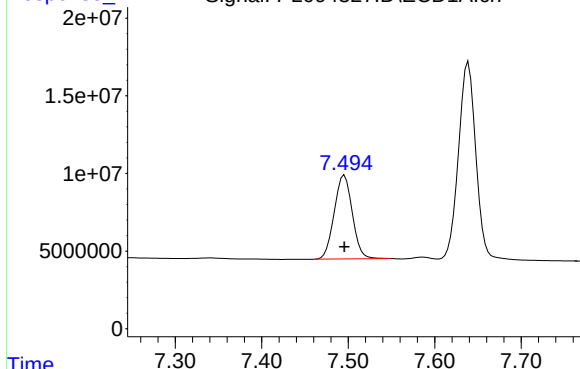


R.T.: 7.154 min
Delta R.T.: 0.000 min
Response: 156193186
Conc: 74.69 ng/ml

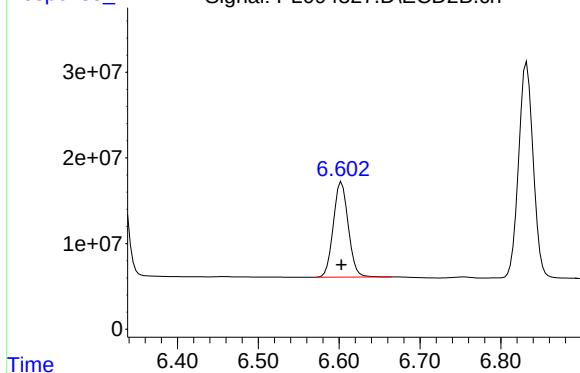
Instrument :
ECD_L
ClientSampleId :
PSTDICC075



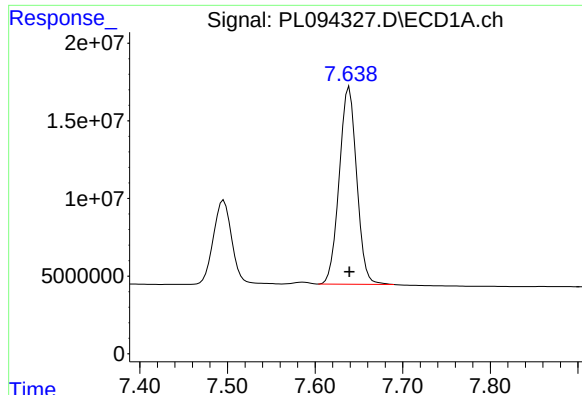
R.T.: 6.327 min
Delta R.T.: 0.000 min
Response: 271972769
Conc: 74.57 ng/ml



R.T.: 7.496 min
Delta R.T.: 0.000 min
Response: 78174777
Conc: 74.47 ng/ml



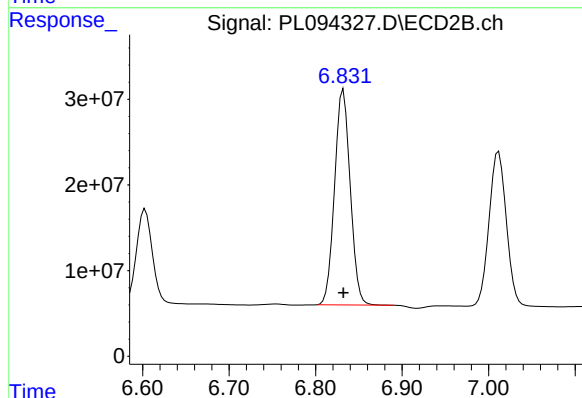
R.T.: 6.603 min
Delta R.T.: 0.000 min
Response: 142797268
Conc: 74.32 ng/ml



#21 Endrin ketone

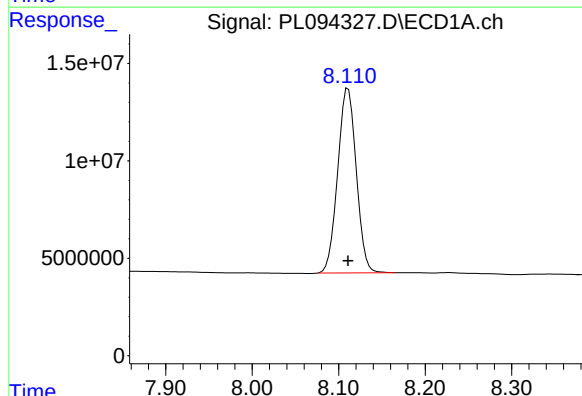
R.T.: 7.639 min
Delta R.T.: 0.000 min
Response: 175903735
Conc: 74.56 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC075



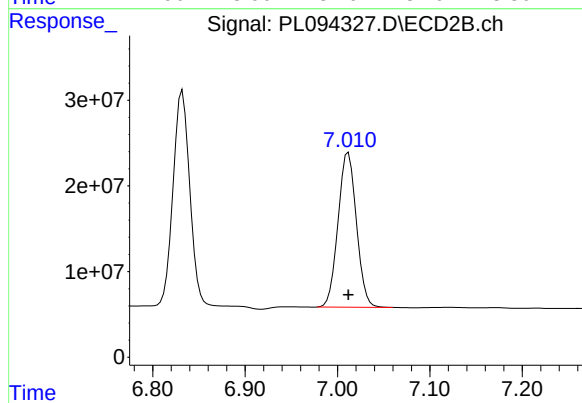
#21 Endrin ketone

R.T.: 6.832 min
Delta R.T.: 0.000 min
Response: 314960438
Conc: 74.32 ng/ml



#22 Mirex

R.T.: 8.111 min
Delta R.T.: 0.000 min
Response: 140510167
Conc: 74.42 ng/ml



#22 Mirex

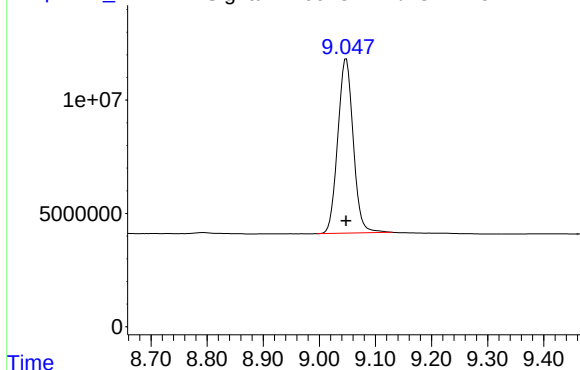
R.T.: 7.012 min
Delta R.T.: 0.000 min
Response: 249550113
Conc: 74.20 ng/ml

Response_

Signal: PL094327.D\ECD1A.ch

#28 Decachlorobiphenyl

ICAL Form



R.T.: 9.048 min
Delta R.T.: 0.000 min
Response: 147242304
Conc: 74.53 ng/ml

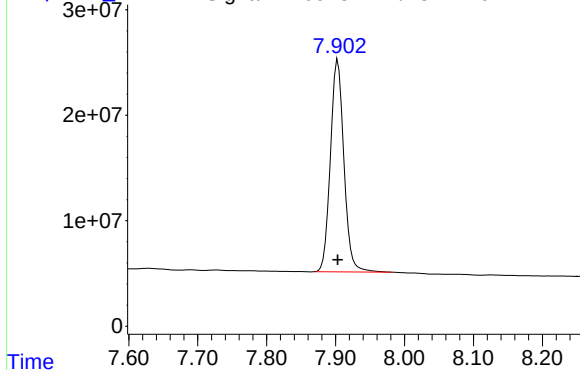
Instrument :
ECD_L
ClientSampleId :
PSTDICC075

Time

Response

Signal: PL094327.D\ECD2B.ch

#28 Decachlorobiphenyl



R.T.: 7.903 min
Delta R.T.: 0.000 min
Response: 272911909
Conc: 74.45 ng/ml

Time

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022125\
 Data File : PL094328.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Feb 2025 11:23
 Operator : AR\AJ
 Sample : PSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PSTDICC050

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 21 11:46:22 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
 Quant Title : GC Extractables
 QLast Update : Fri Feb 21 11:46:00 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
1)	SA Tetrachlo...	3.535	2.770	122.2E6	156.4E6	50.000	50.000
28)	SA Decachlor...	9.049	7.904	101.5E6	184.1E6	50.000	50.000
Target Compounds							
2)	A alpha-BHC	3.991	3.272	181.2E6	244.3E6	50.000	50.000
3)	MA gamma-BHC...	4.324	3.602	176.8E6	232.9E6	50.000	50.000
4)	MA Heptachlor	4.912	3.940	160.4E6	231.5E6	50.000	50.000
5)	MB Aldrin	5.253	4.219	162.8E6	226.8E6	50.000	50.000
6)	B beta-BHC	4.522	3.903	74292245	95981772	50.000	50.000
7)	B delta-BHC	4.769	4.130	167.7E6	234.1E6	50.000	50.000
8)	B Heptachlo...	5.679	4.722	143.4E6	208.3E6	50.000	50.000
9)	A Endosulfan I	6.065	5.091	130.3E6	195.2E6	50.000	50.000
10)	B gamma-Chl...	5.935	4.972	137.7E6	211.6E6	50.000	50.000
11)	B alpha-Chl...	6.015	5.035	136.9E6	209.6E6	50.000	50.000
12)	B 4,4'-DDE	6.188	5.224	125.3E6	205.9E6	50.000	50.000
13)	MA Dieldrin	6.340	5.356	134.7E6	216.4E6	50.000	50.000
14)	MA Endrin	6.570	5.631	116.8E6	171.7E6	50.000	50.000
15)	B Endosulfa...	6.790	5.926	116.7E6	184.1E6	50.000	50.000
16)	A 4,4'-DDD	6.706	5.779	90515407	157.0E6	50.000	50.000
17)	MA 4,4'-DDT	7.019	6.029	101.0E6	176.5E6	50.000	50.000
18)	B Endrin al...	6.920	6.106	92370929	153.2E6	50.000	50.000
19)	B Endosulfa...	7.154	6.328	106.2E6	180.5E6	50.000	50.000
20)	A Methoxychlor	7.496	6.605	53641156	96787465	50.000	50.000
21)	B Endrin ke...	7.639	6.833	119.5E6	210.7E6	50.000	50.000
22)	Mirex	8.112	7.013	96984261	169.8E6	50.000	50.000

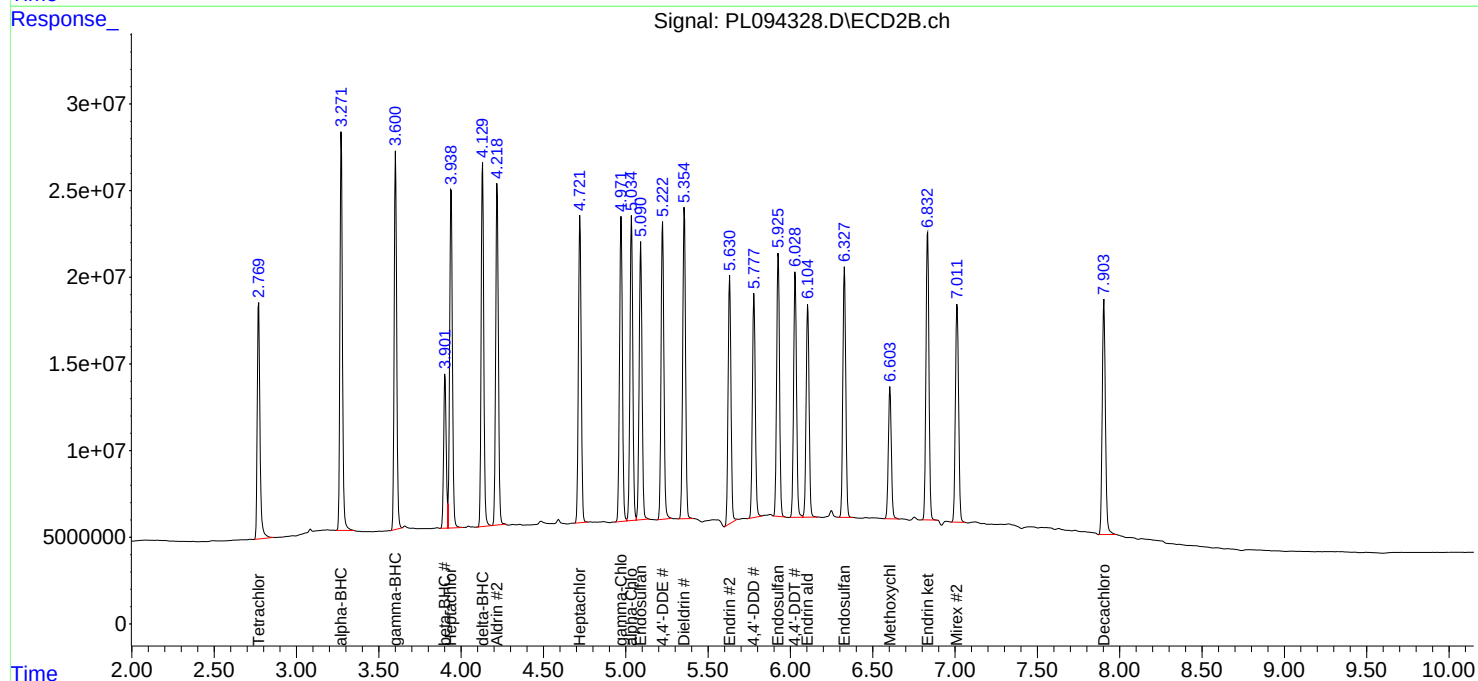
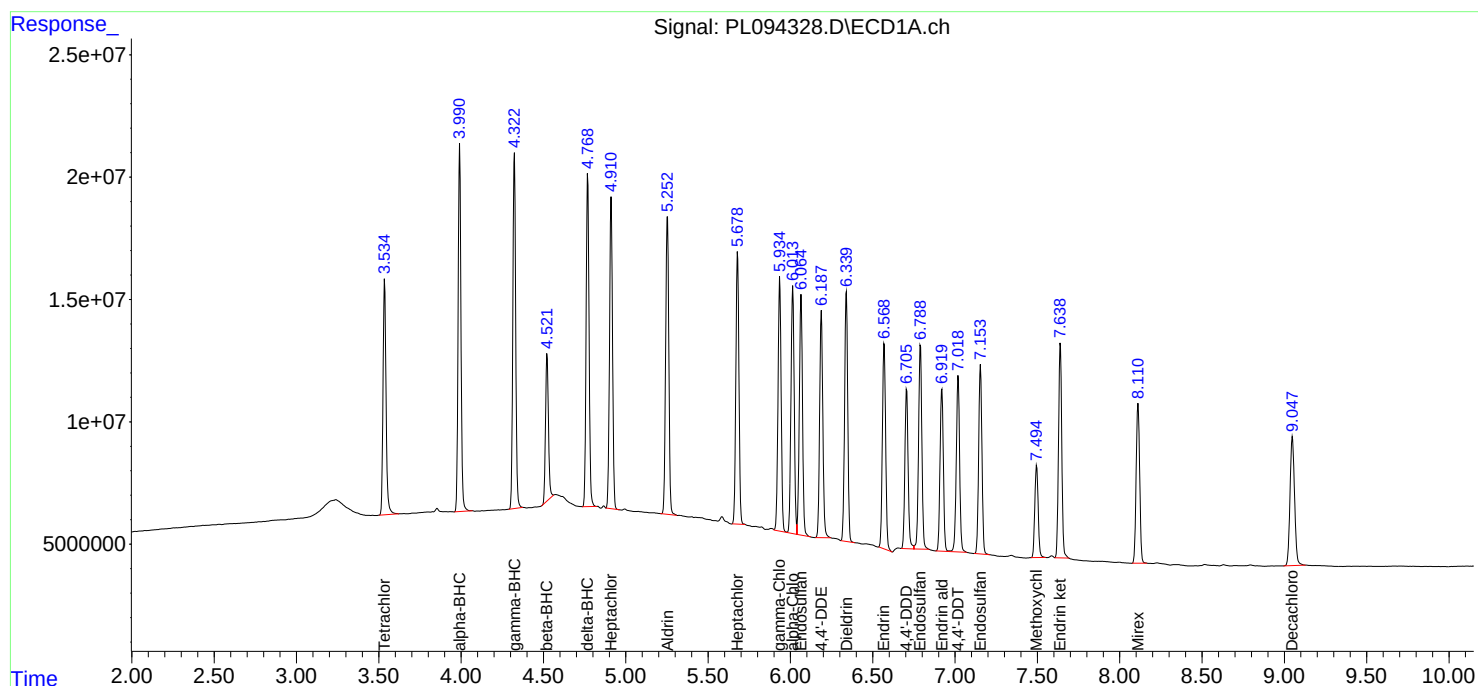
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

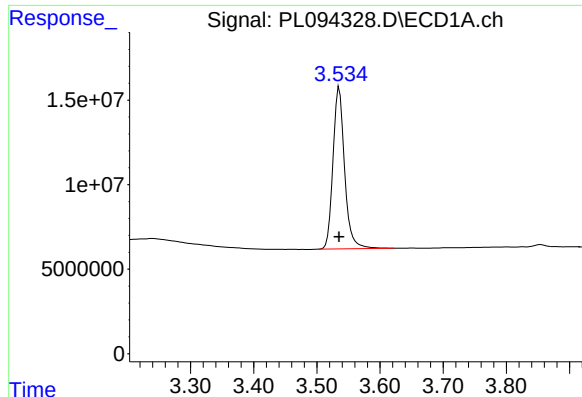
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022125\
Data File : PL094328.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2025 11:23
Operator : AR\AJ
Sample : PSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PSTDICC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 21 11:46:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 11:46:00 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

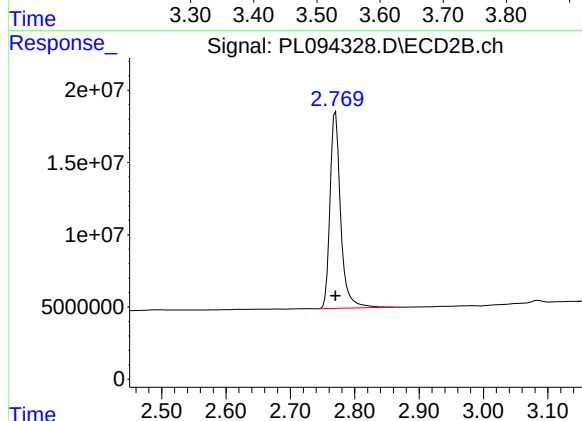




#1 Tetrachloro-m-xylene

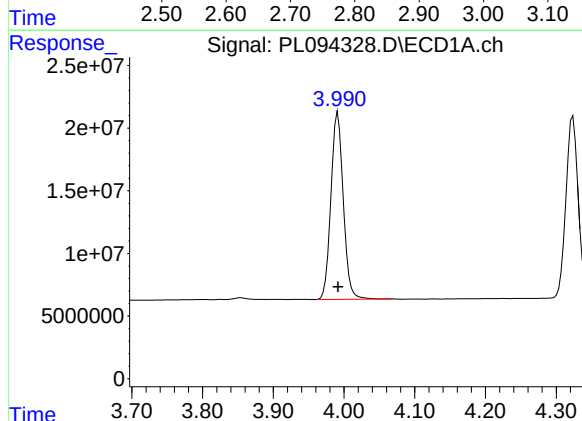
R.T.: 3.535 min
Delta R.T.: 0.000 min
Response: 122175901
Conc: 50.00 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC050



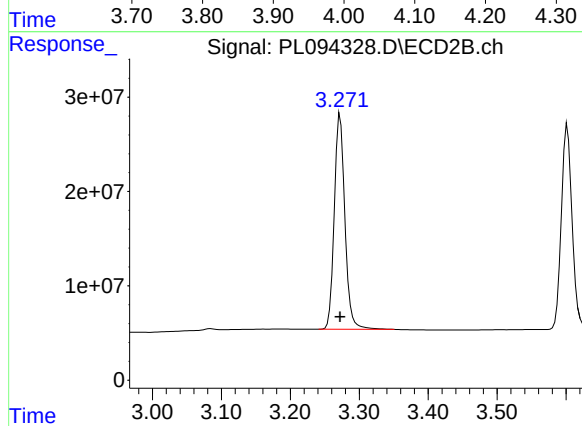
#1 Tetrachloro-m-xylene

R.T.: 2.770 min
Delta R.T.: 0.000 min
Response: 156374816
Conc: 50.00 ng/ml



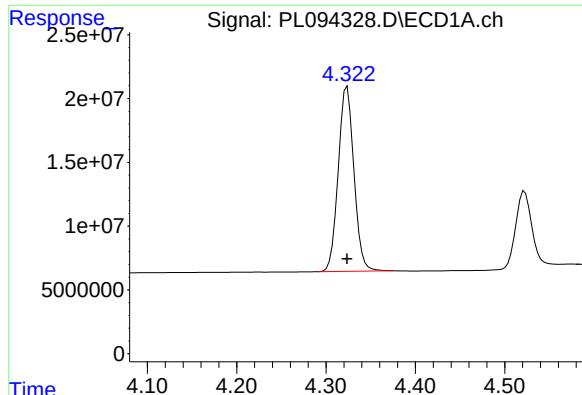
#2 alpha-BHC

R.T.: 3.991 min
Delta R.T.: 0.000 min
Response: 181150371
Conc: 50.00 ng/ml



#2 alpha-BHC

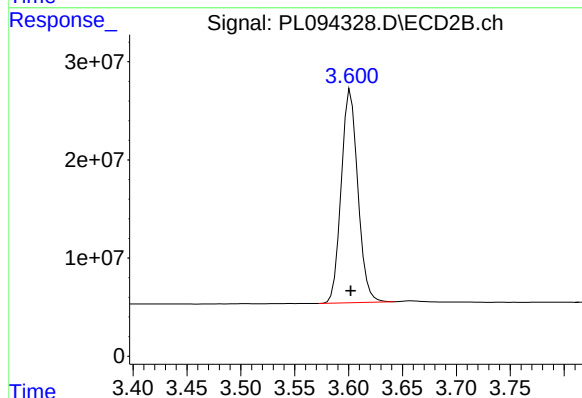
R.T.: 3.272 min
Delta R.T.: 0.000 min
Response: 244304488
Conc: 50.00 ng/ml



#3 gamma-BHC (Lindane)

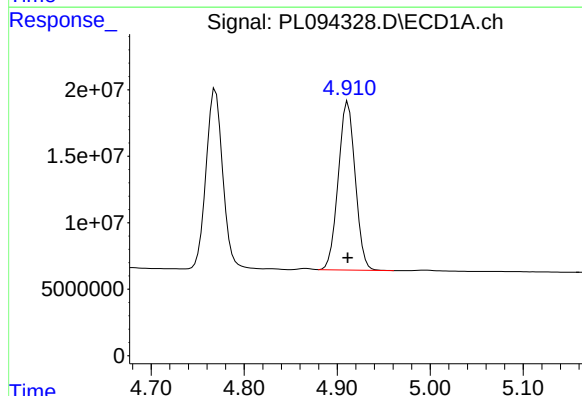
R.T.: 4.324 min
Delta R.T.: 0.000 min
Response: 176764765
Conc: 50.00 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC050



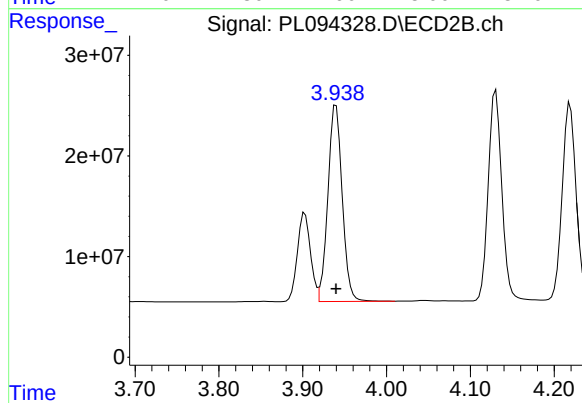
#3 gamma-BHC (Lindane)

R.T.: 3.602 min
Delta R.T.: 0.000 min
Response: 232908617
Conc: 50.00 ng/ml



#4 Heptachlor

R.T.: 4.912 min
Delta R.T.: 0.000 min
Response: 160380233
Conc: 50.00 ng/ml



#4 Heptachlor

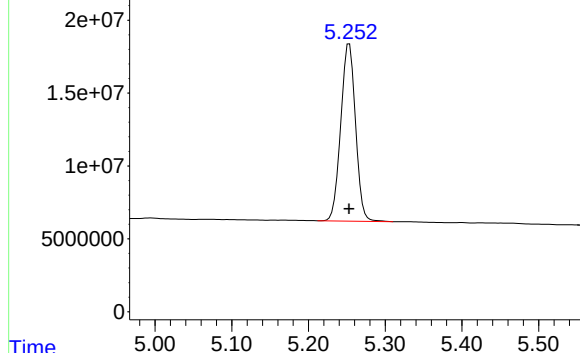
R.T.: 3.940 min
Delta R.T.: 0.000 min
Response: 231475225
Conc: 50.00 ng/ml

Response_ Signal: PL094328.D\ECD1A.ch

#5 Aldrin

R.T.: 5.253 min
Delta R.T.: 0.000 min
Response: 162759120
Conc: 50.00 ng/ml

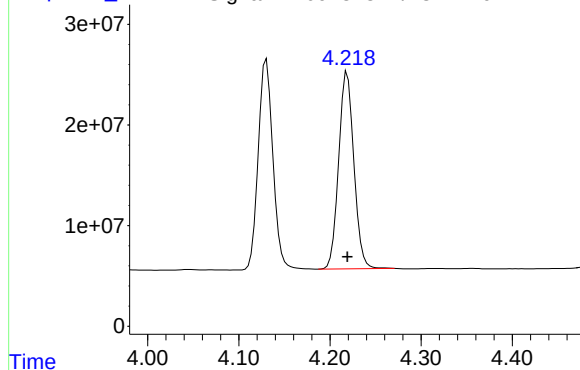
Instrument :
ECD_L
ClientSampleId :
PSTDICC050



Response_ Signal: PL094328.D\ECD2B.ch

#5 Aldrin

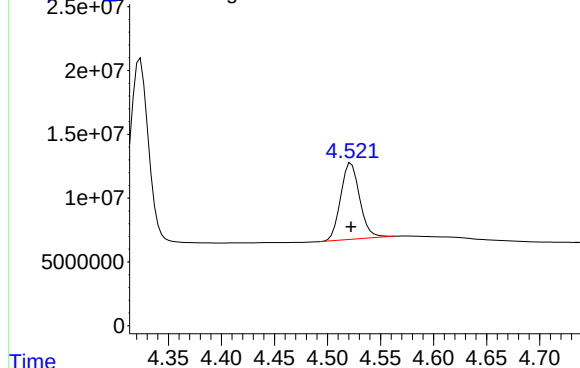
R.T.: 4.219 min
Delta R.T.: 0.000 min
Response: 226812315
Conc: 50.00 ng/ml



Response_ Signal: PL094328.D\ECD1A.ch

#6 beta-BHC

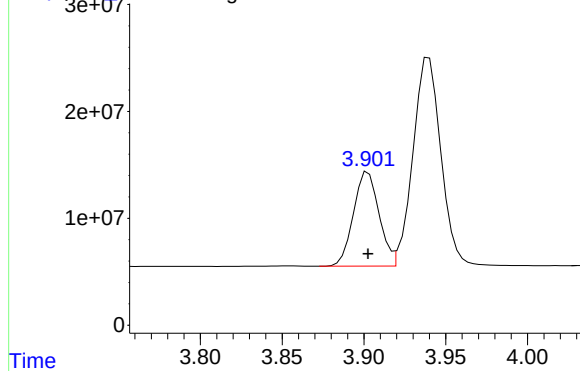
R.T.: 4.522 min
Delta R.T.: 0.000 min
Response: 74292245
Conc: 50.00 ng/ml



Response_ Signal: PL094328.D\ECD2B.ch

#6 beta-BHC

R.T.: 3.903 min
Delta R.T.: 0.000 min
Response: 95981772
Conc: 50.00 ng/ml



Response_ Signal: PL094328.D\ECD1A.ch

#7 delta-BHC

R.T.: 4.769 min
Delta R.T.: 0.000 min
Response: 167662648
Conc: 50.00 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC050

Time

Response_ Signal: PL094328.D\ECD2B.ch

#7 delta-BHC

R.T.: 4.130 min
Delta R.T.: 0.000 min
Response: 234120361
Conc: 50.00 ng/ml

Time

Response_ Signal: PL094328.D\ECD1A.ch

#8 Heptachlor epoxide

R.T.: 5.679 min
Delta R.T.: 0.000 min
Response: 143405658
Conc: 50.00 ng/ml

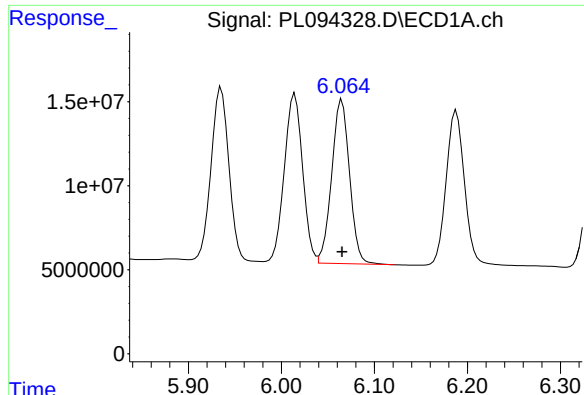
Time

Response_ Signal: PL094328.D\ECD2B.ch

#8 Heptachlor epoxide

R.T.: 4.722 min
Delta R.T.: 0.000 min
Response: 208285034
Conc: 50.00 ng/ml

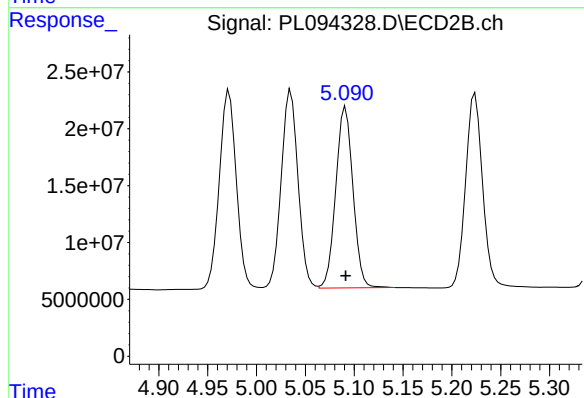
Time



#9 Endosulfan I

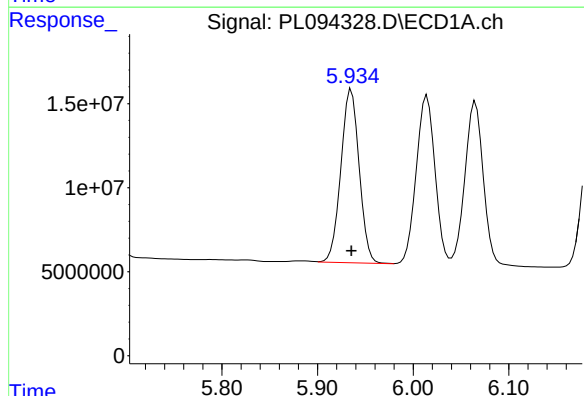
R.T.: 6.065 min
Delta R.T.: 0.000 min
Response: 130288984
Conc: 50.00 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC050



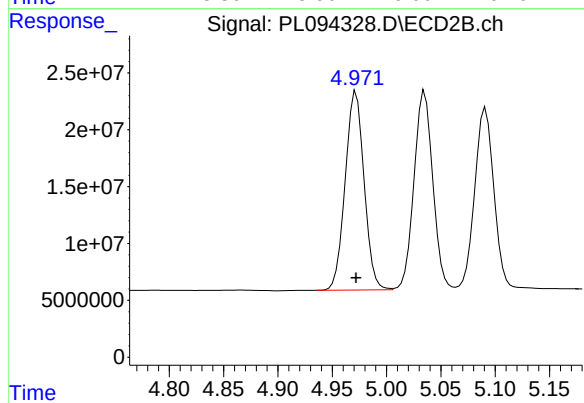
#9 Endosulfan I

R.T.: 5.091 min
Delta R.T.: 0.000 min
Response: 195234153
Conc: 50.00 ng/ml



#10 gamma-Chlordane

R.T.: 5.935 min
Delta R.T.: 0.000 min
Response: 137659723
Conc: 50.00 ng/ml



#10 gamma-Chlordane

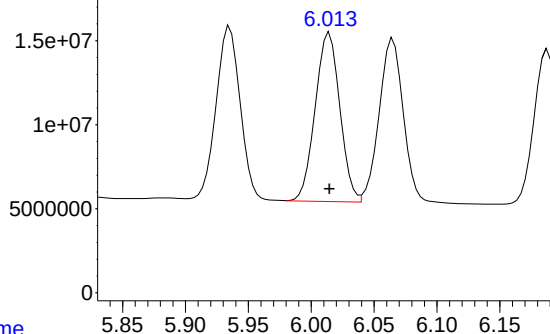
R.T.: 4.972 min
Delta R.T.: 0.000 min
Response: 211568956
Conc: 50.00 ng/ml

Response_

Signal: PL094328.D\ECD1A.ch

#11 alpha-Chlordane

ICAL Form



R.T.: 6.015 min
Delta R.T.: 0.000 min
Response: 136949047
Conc: 50.00 ng/ml

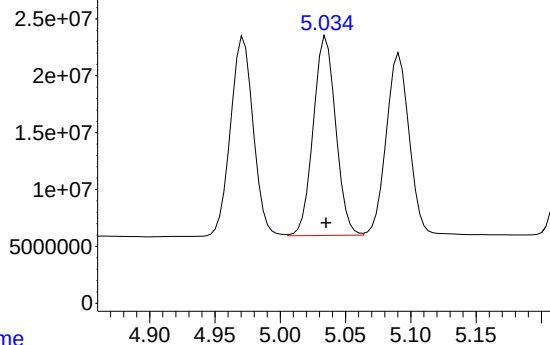
Instrument :
ECD_L
ClientSampleId :
PSTDICC050

Time

Response_

Signal: PL094328.D\ECD2B.ch

#11 alpha-Chlordane



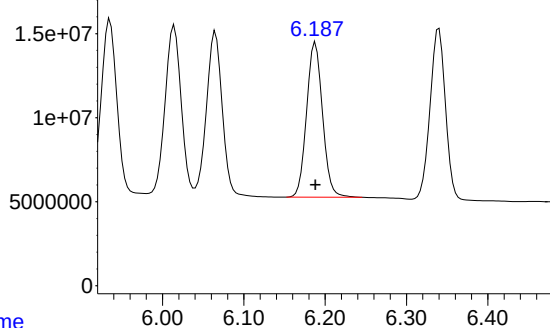
R.T.: 5.035 min
Delta R.T.: 0.000 min
Response: 209576780
Conc: 50.00 ng/ml

Time

Response_

Signal: PL094328.D\ECD1A.ch

#12 4,4'-DDE



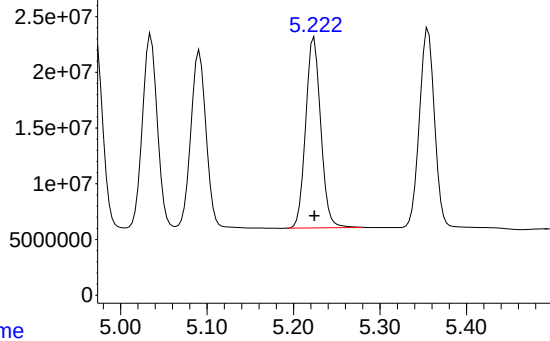
R.T.: 6.188 min
Delta R.T.: 0.000 min
Response: 125330514
Conc: 50.00 ng/ml

Time

Response_

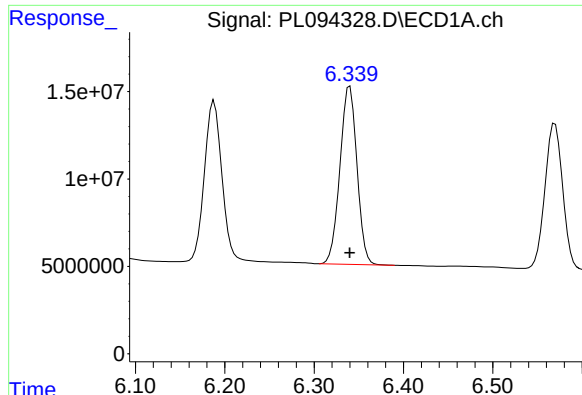
Signal: PL094328.D\ECD2B.ch

#12 4,4'-DDE



R.T.: 5.224 min
Delta R.T.: 0.000 min
Response: 205939758
Conc: 50.00 ng/ml

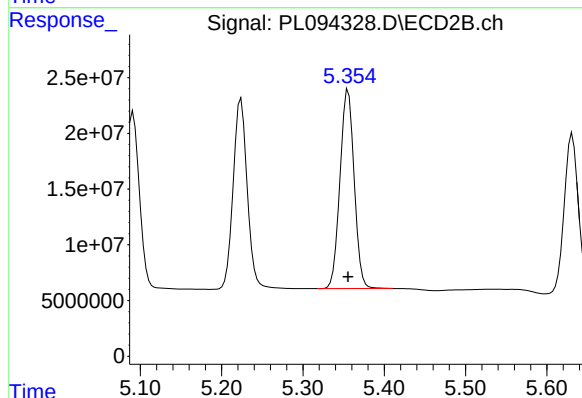
Time



#13 Dieldrin

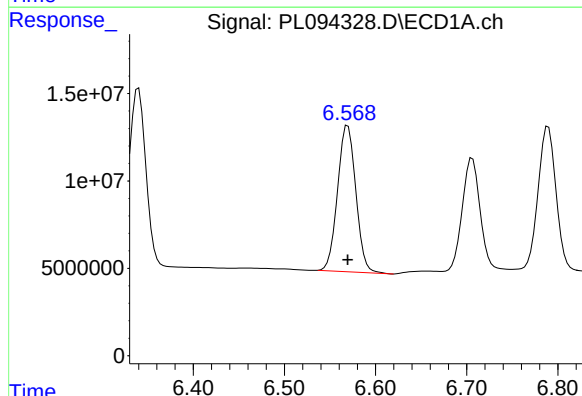
R.T.: 6.340 min
Delta R.T.: 0.000 min
Response: 134678404
Conc: 50.00 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC050



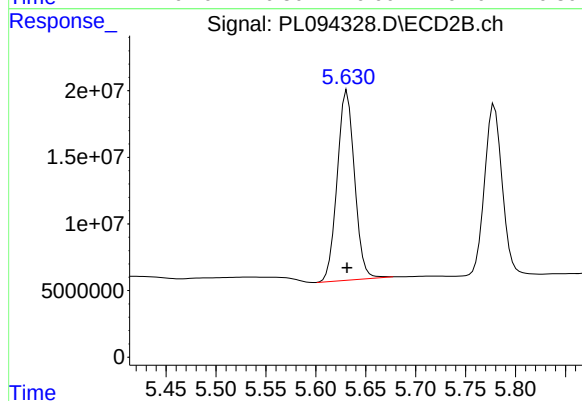
#13 Dieldrin

R.T.: 5.356 min
Delta R.T.: 0.000 min
Response: 216387036
Conc: 50.00 ng/ml



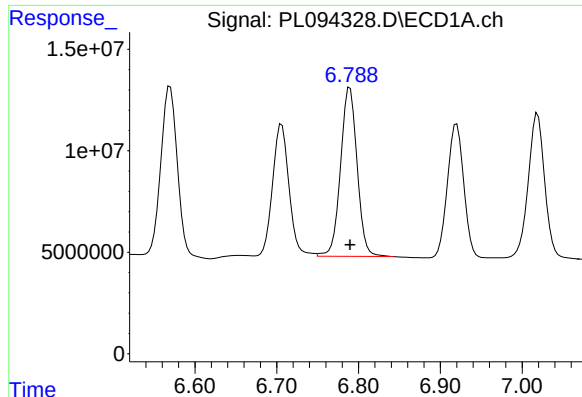
#14 Endrin

R.T.: 6.570 min
Delta R.T.: 0.000 min
Response: 116757735
Conc: 50.00 ng/ml



#14 Endrin

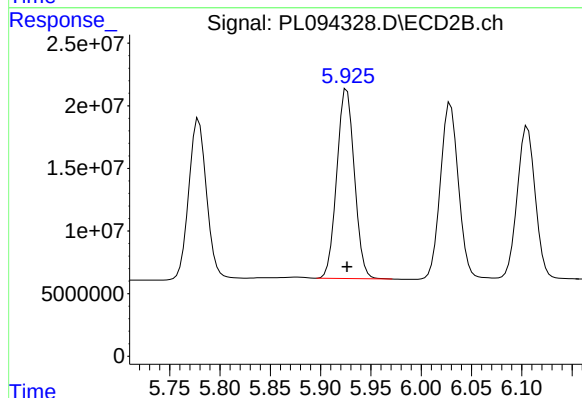
R.T.: 5.631 min
Delta R.T.: 0.000 min
Response: 171702932
Conc: 50.00 ng/ml



#15 Endosulfan II

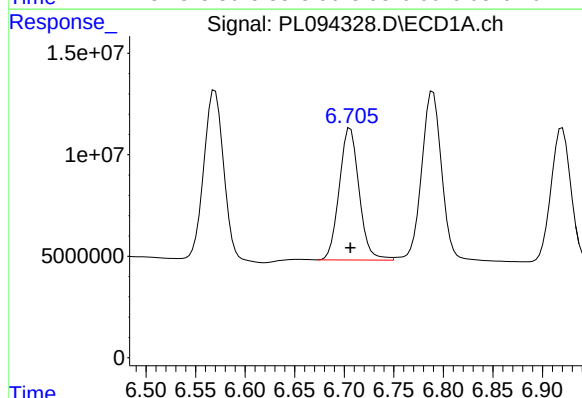
R.T.: 6.790 min
Delta R.T.: 0.000 min
Response: 116707263
Conc: 50.00 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC050



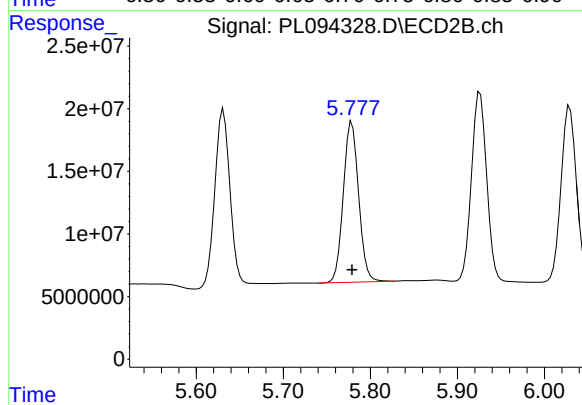
#15 Endosulfan II

R.T.: 5.926 min
Delta R.T.: 0.000 min
Response: 184064440
Conc: 50.00 ng/ml



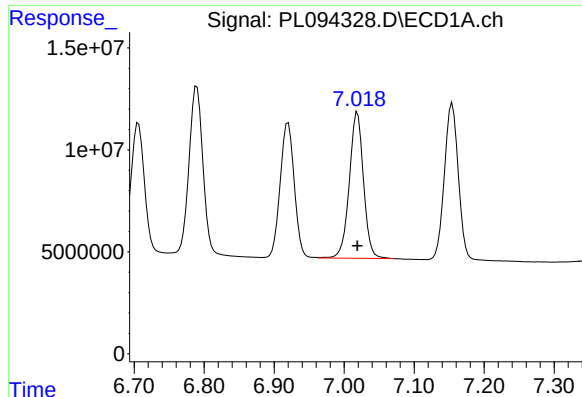
#16 4,4'-DDD

R.T.: 6.706 min
Delta R.T.: 0.000 min
Response: 90515407
Conc: 50.00 ng/ml



#16 4,4'-DDD

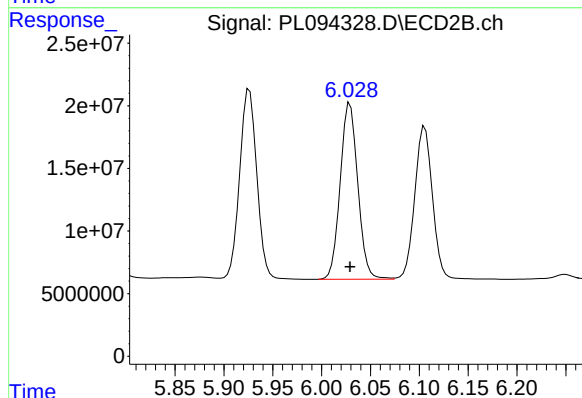
R.T.: 5.779 min
Delta R.T.: 0.000 min
Response: 156972295
Conc: 50.00 ng/ml



#17 4,4'-DDT

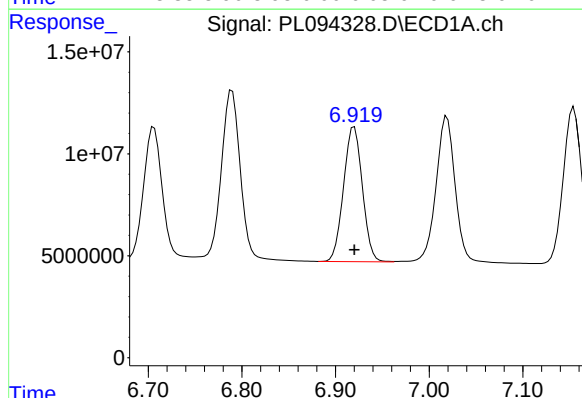
R.T.: 7.019 min
Delta R.T.: 0.000 min
Response: 100985451
Conc: 50.00 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC050



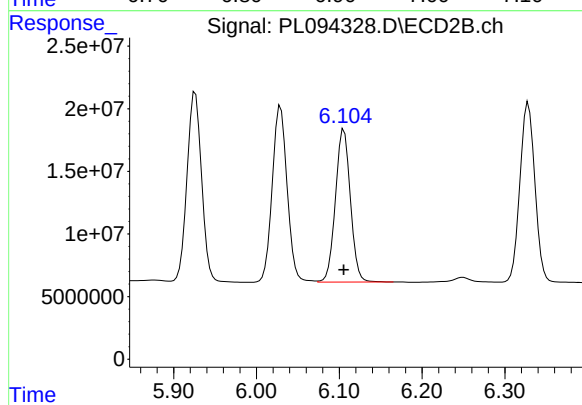
#17 4,4'-DDT

R.T.: 6.029 min
Delta R.T.: 0.000 min
Response: 176484794
Conc: 50.00 ng/ml



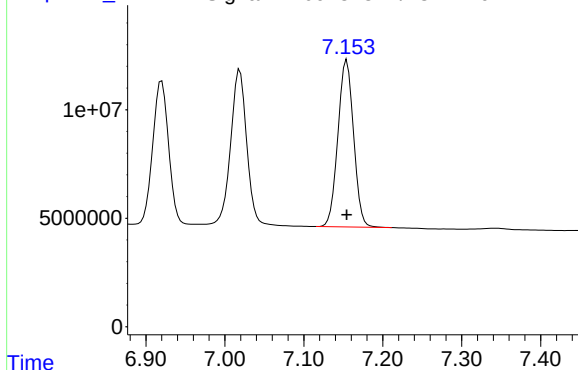
#18 Endrin aldehyde

R.T.: 6.920 min
Delta R.T.: 0.000 min
Response: 92370929
Conc: 50.00 ng/ml



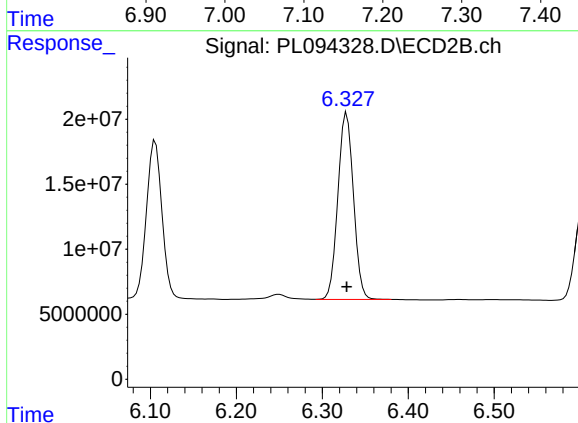
#18 Endrin aldehyde

R.T.: 6.106 min
Delta R.T.: 0.000 min
Response: 153238458
Conc: 50.00 ng/ml



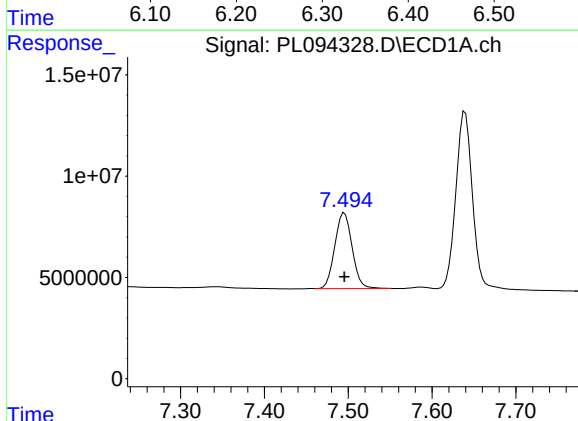
R.T.: 7.154 min
Delta R.T.: 0.000 min
Response: 106215974
Conc: 50.00 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC050



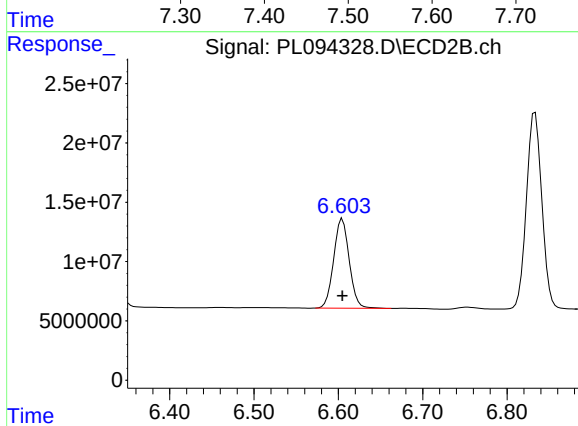
#19 Endosulfan Sulfate

R.T.: 6.328 min
Delta R.T.: 0.000 min
Response: 180464026
Conc: 50.00 ng/ml



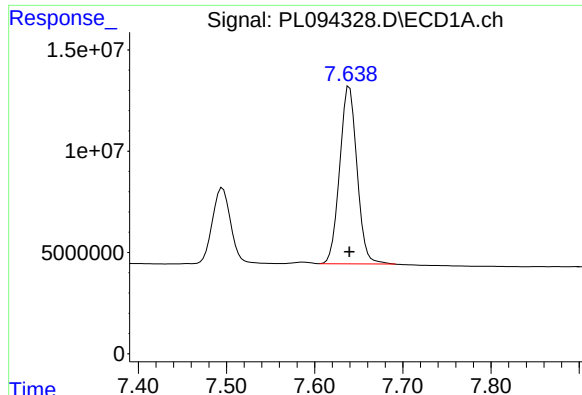
#20 Methoxychlor

R.T.: 7.496 min
Delta R.T.: 0.000 min
Response: 53641156
Conc: 50.00 ng/ml



#20 Methoxychlor

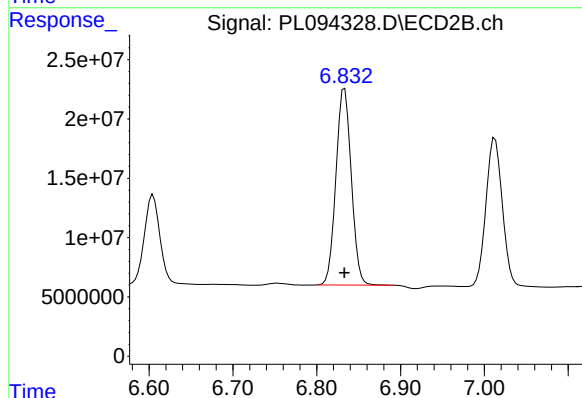
R.T.: 6.605 min
Delta R.T.: 0.000 min
Response: 96787465
Conc: 50.00 ng/ml



#21 Endrin ketone

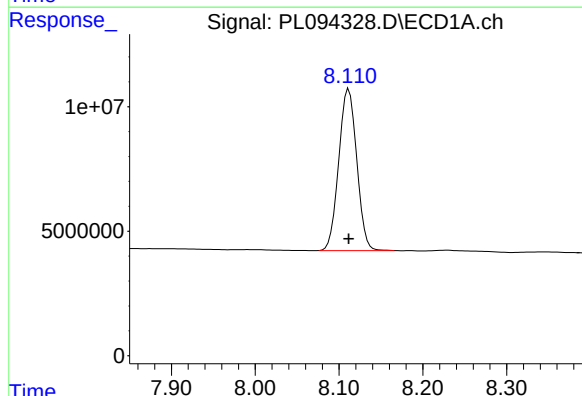
R.T.: 7.639 min
Delta R.T.: 0.000 min
Response: 119498420
Conc: 50.00 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC050



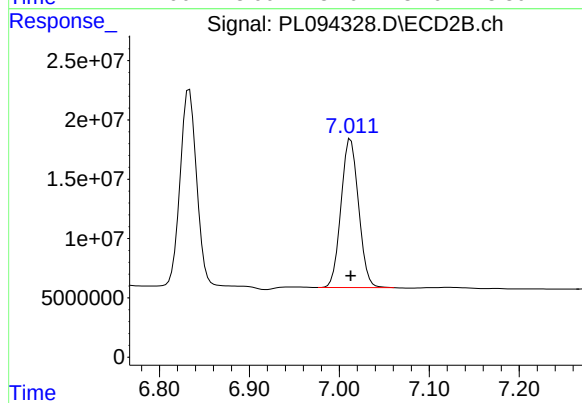
#21 Endrin ketone

R.T.: 6.833 min
Delta R.T.: 0.000 min
Response: 210651815
Conc: 50.00 ng/ml



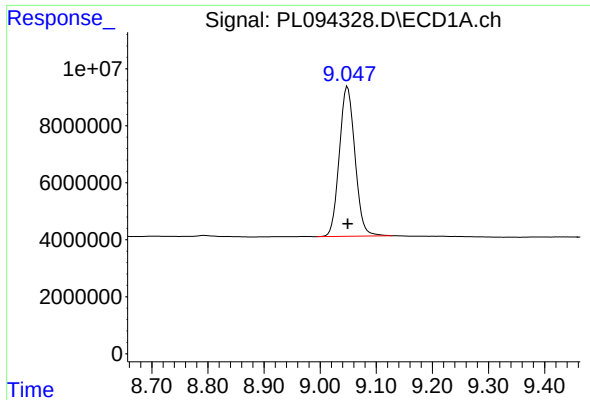
#22 Mirex

R.T.: 8.112 min
Delta R.T.: 0.000 min
Response: 96984261
Conc: 50.00 ng/ml



#22 Mirex

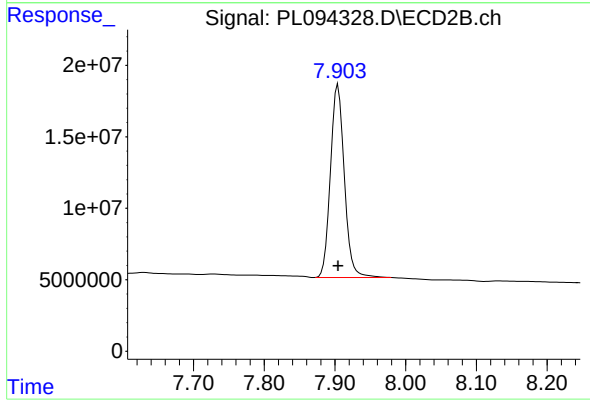
R.T.: 7.013 min
Delta R.T.: 0.000 min
Response: 169849806
Conc: 50.00 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.049 min
Delta R.T.: 0.000 min
Response: 101531835
Conc: 50.00 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC050



#28 Decachlorobiphenyl

R.T.: 7.904 min
Delta R.T.: 0.000 min
Response: 184099006
Conc: 50.00 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022125\
 Data File : PL094329.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Feb 2025 11:37
 Operator : AR\AJ
 Sample : PSTDICC025
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PSTDICC025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 21 11:53:19 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
 Quant Title : GC Extractables
 QLast Update : Fri Feb 21 11:46:00 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
1)	SA Tetrachlo...	3.537	2.771	65060344	79649212	26.243	25.170
28)	SA Decachlor...	9.049	7.905	55082778	95505363	27.100	25.783
Target Compounds							
2)	A alpha-BHC	3.992	3.273	94515519	119.7E6	25.541	24.067
3)	MA gamma-BHC...	4.325	3.604	92761866	115.2E6	25.719	24.185
4)	MA Heptachlor	4.913	3.942	86115609	117.0E6	26.324	24.801
5)	MB Aldrin	5.254	4.221	86928991	113.9E6	26.280	24.519
6)	B beta-BHC	4.524	3.904	41686104	49406972	27.118	25.366
7)	B delta-BHC	4.771	4.132	88045756	115.7E6	25.609	24.112
8)	B Heptachlo...	5.681	4.724	76876028	106.4E6	26.443	25.110
9)	A Endosulfan I	6.066	5.093	69593896	99489816	26.580	25.100
10)	B gamma-Chl...	5.937	4.974	73787635	107.5E6	26.404	24.896
11)	B alpha-Chl...	6.016	5.037	73419053	107.6E6	26.465	25.129
12)	B 4,4'-DDE	6.190	5.226	67623636	105.3E6	26.582	25.087
13)	MA Dieldrin	6.342	5.357	72547132	108.7E6	26.477	24.727
14)	MA Endrin	6.571	5.633	64078269	87471143	27.021	25.129
15)	B Endosulfa...	6.791	5.928	63395516	94176002	26.914	25.180
16)	A 4,4'-DDD	6.707	5.780	48378655	79168494	26.348	24.631
17)	MA 4,4'-DDT	7.021	6.031	53652973	88440476	26.428	24.644
18)	B Endrin al...	6.922	6.107	50501352	78974212	27.114	25.442
19)	B Endosulfa...	7.156	6.330	58130876	92670594	27.042	25.304
20)	A Methoxychlor	7.497	6.606	29029751	50159570	26.939	25.821
21)	B Endrin ke...	7.641	6.835	64585363	107.0E6	26.742	25.193
22)	Mirex	8.114	7.014	53883808	88624231	27.563	25.999

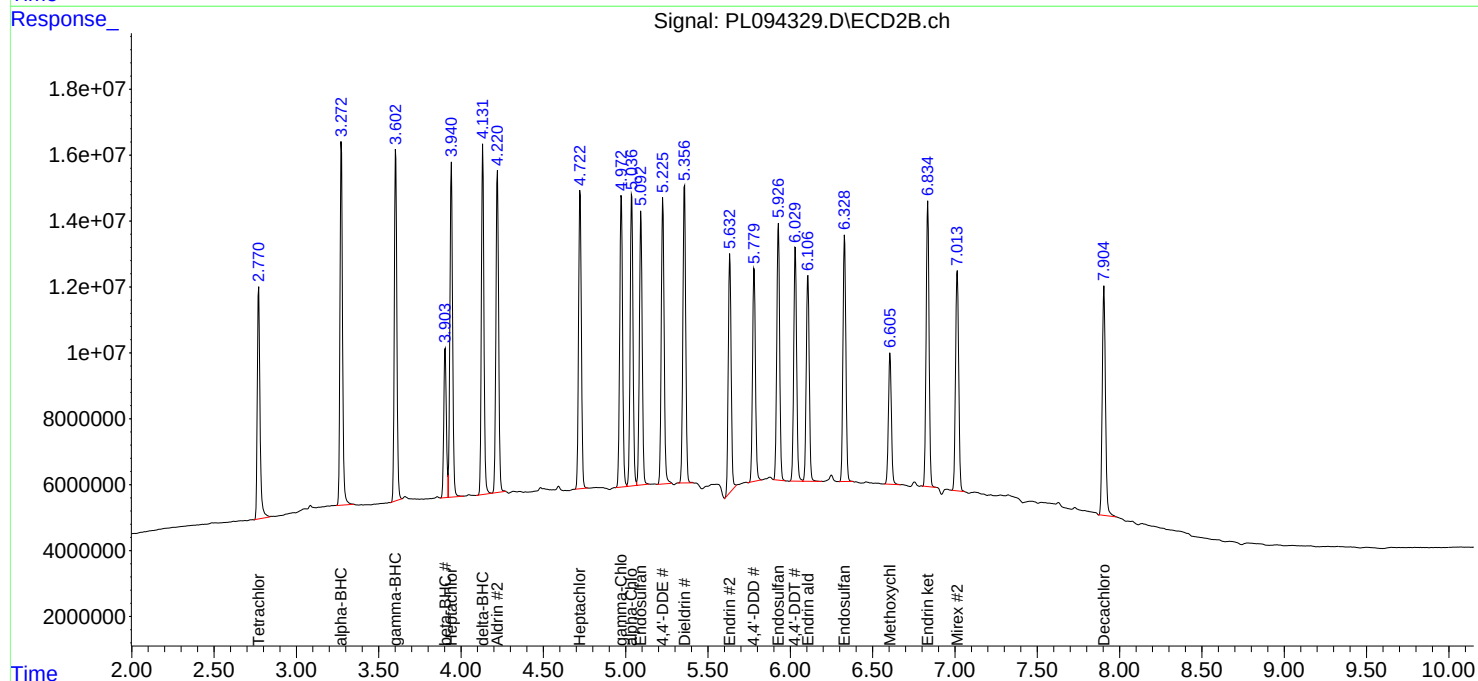
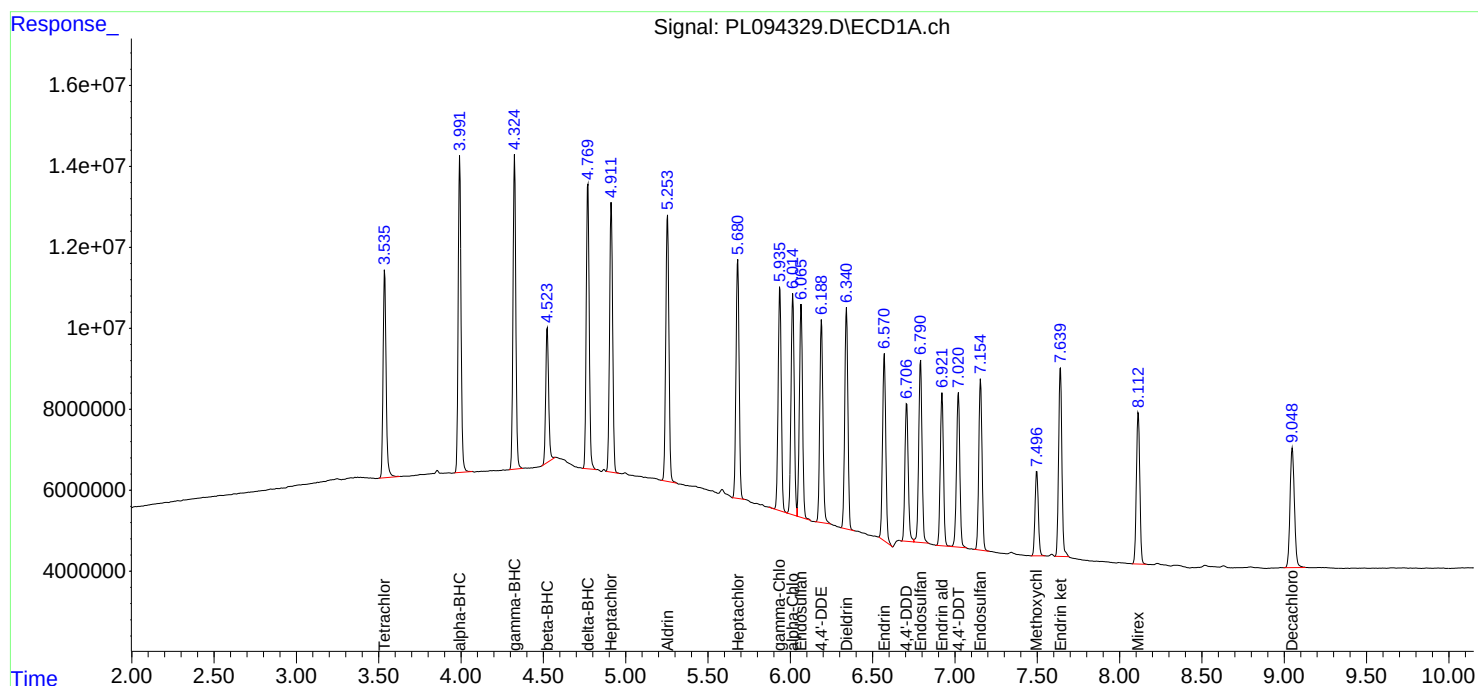
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

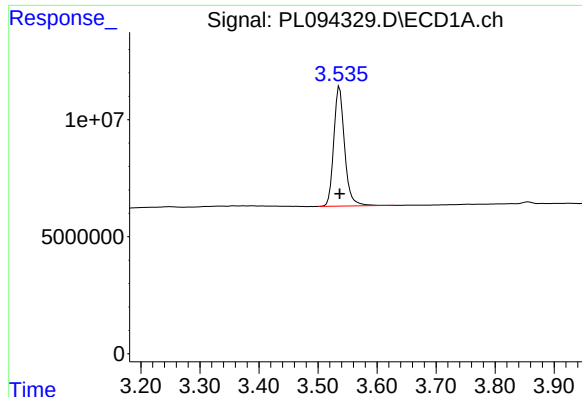
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022125\
Data File : PL094329.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2025 11:37
Operator : AR\AJ
Sample : PSTDICC025
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PSTDICC025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 21 11:53:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 11:46:00 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x0.25µm

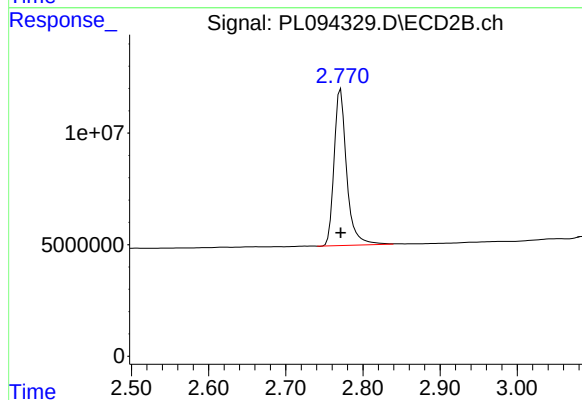




#1 Tetrachloro-m-xylene

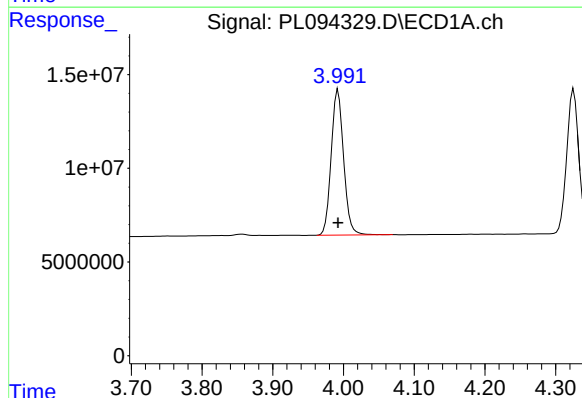
R.T.: 3.537 min
Delta R.T.: 0.000 min
Response: 65060344
Conc: 26.24 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC025



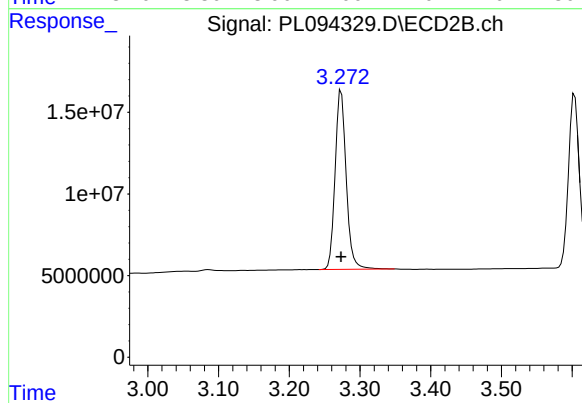
#1 Tetrachloro-m-xylene

R.T.: 2.771 min
Delta R.T.: 0.000 min
Response: 79649212
Conc: 25.17 ng/ml



#2 alpha-BHC

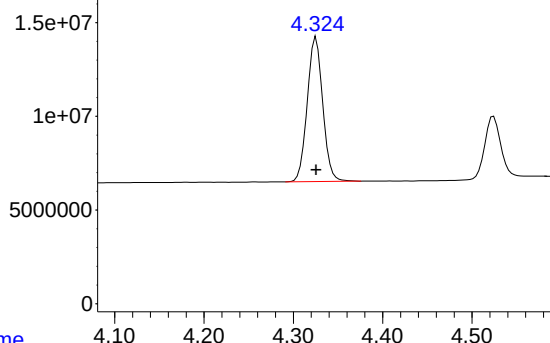
R.T.: 3.992 min
Delta R.T.: 0.000 min
Response: 94515519
Conc: 25.54 ng/ml



#2 alpha-BHC

R.T.: 3.273 min
Delta R.T.: 0.000 min
Response: 119719952
Conc: 24.07 ng/ml

Response_ Signal: PL094329.D\ECD1A.ch

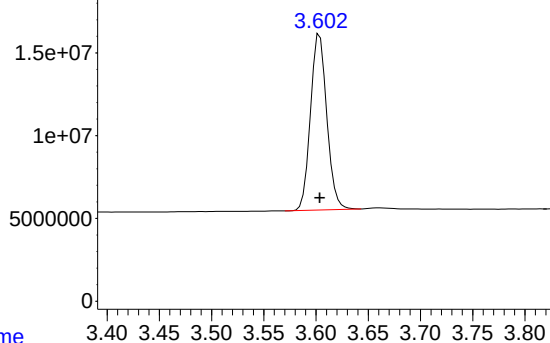


#3 gamma-BHC (Lindane)

R.T.: 4.325 min
Delta R.T.: 0.000 min
Response: 92761866
Conc: 25.72 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC025

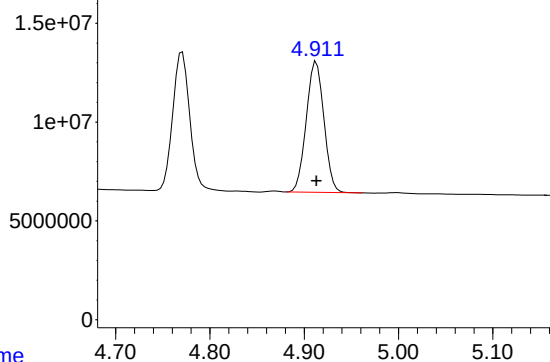
Time Response_ Signal: PL094329.D\ECD2B.ch



#3 gamma-BHC (Lindane)

R.T.: 3.604 min
Delta R.T.: 0.000 min
Response: 115159200
Conc: 24.18 ng/ml

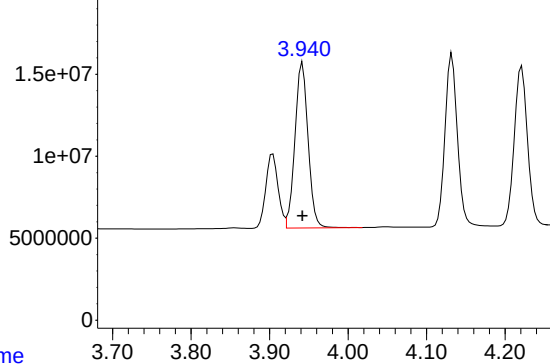
Time Response_ Signal: PL094329.D\ECD1A.ch



#4 Heptachlor

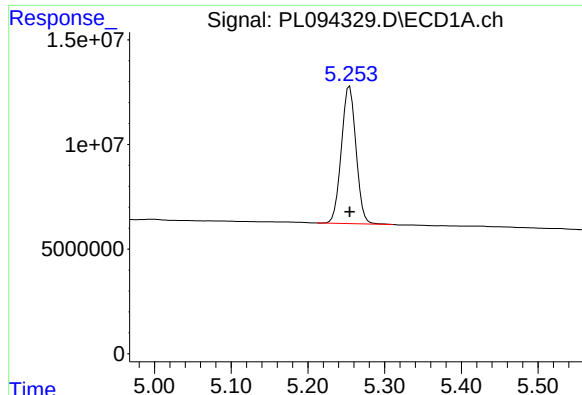
R.T.: 4.913 min
Delta R.T.: 0.000 min
Response: 86115609
Conc: 26.32 ng/ml

Time Response_ Signal: PL094329.D\ECD2B.ch



#4 Heptachlor

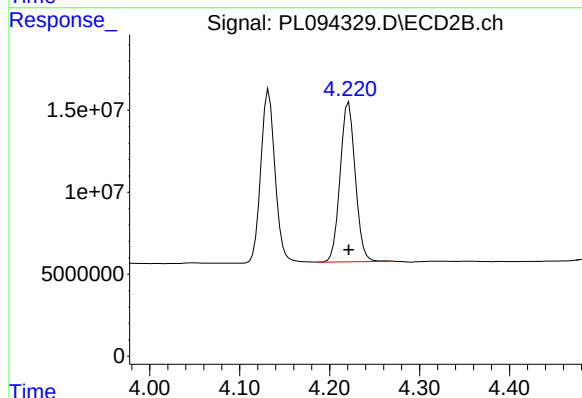
R.T.: 3.942 min
Delta R.T.: 0.000 min
Response: 116990886
Conc: 24.80 ng/ml



#5 Aldrin

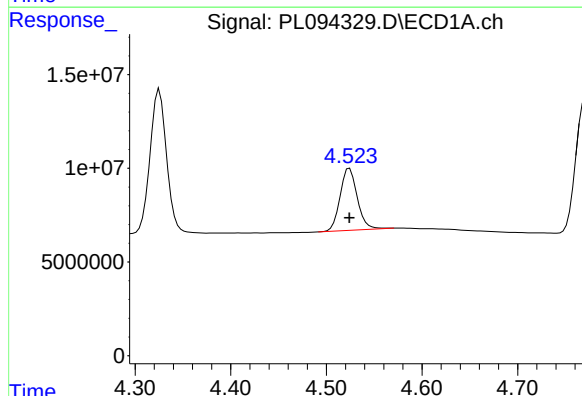
R.T.: 5.254 min
Delta R.T.: 0.000 min
Response: 86928991
Conc: 26.28 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC025



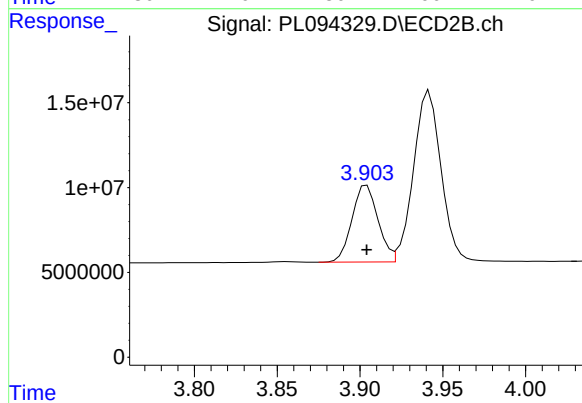
#5 Aldrin

R.T.: 4.221 min
Delta R.T.: 0.000 min
Response: 113898912
Conc: 24.52 ng/ml



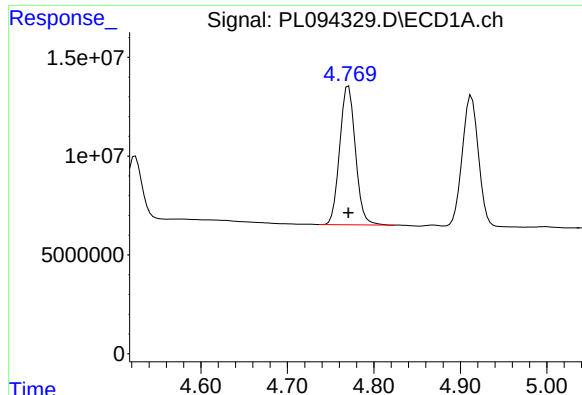
#6 beta-BHC

R.T.: 4.524 min
Delta R.T.: 0.000 min
Response: 41686104
Conc: 27.12 ng/ml



#6 beta-BHC

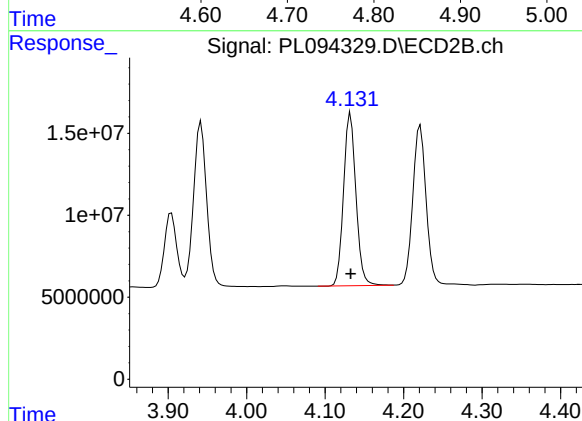
R.T.: 3.904 min
Delta R.T.: 0.000 min
Response: 49406972
Conc: 25.37 ng/ml



#7 delta-BHC

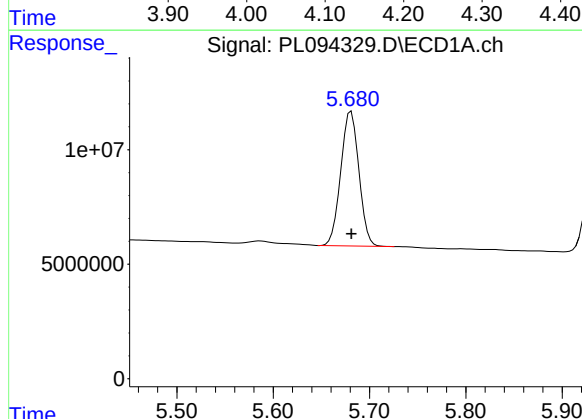
R.T.: 4.771 min
Delta R.T.: 0.000 min
Response: 88045756
Conc: 25.61 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC025



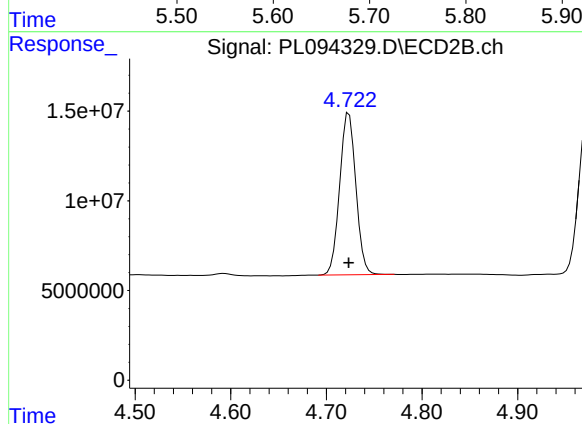
#7 delta-BHC

R.T.: 4.132 min
Delta R.T.: 0.000 min
Response: 115658334
Conc: 24.11 ng/ml



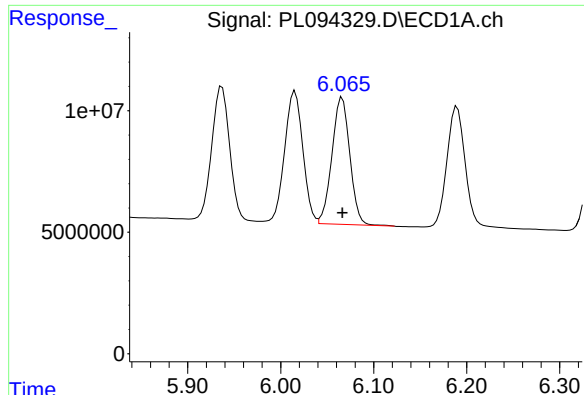
#8 Heptachlor epoxide

R.T.: 5.681 min
Delta R.T.: 0.000 min
Response: 76876028
Conc: 26.44 ng/ml



#8 Heptachlor epoxide

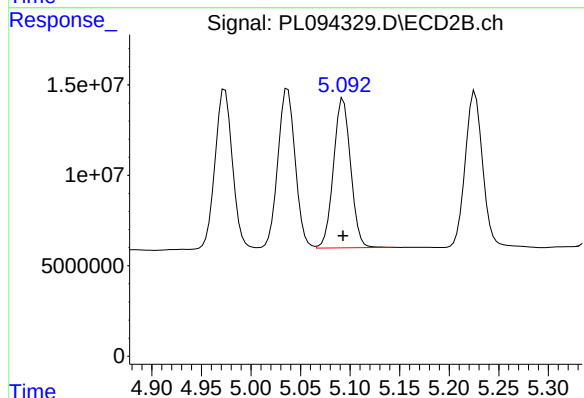
R.T.: 4.724 min
Delta R.T.: 0.000 min
Response: 106428293
Conc: 25.11 ng/ml



#9 Endosulfan I

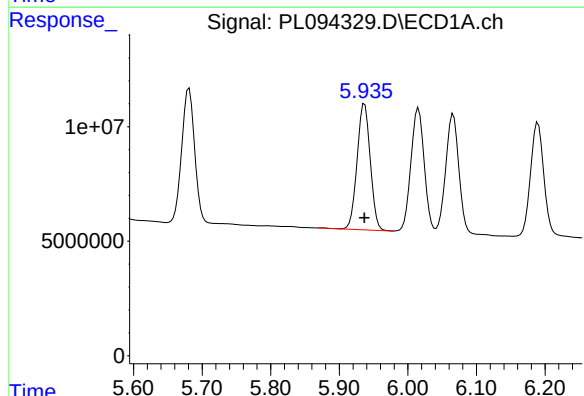
R.T.: 6.066 min
Delta R.T.: 0.000 min
Response: 69593896
Conc: 26.58 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC025



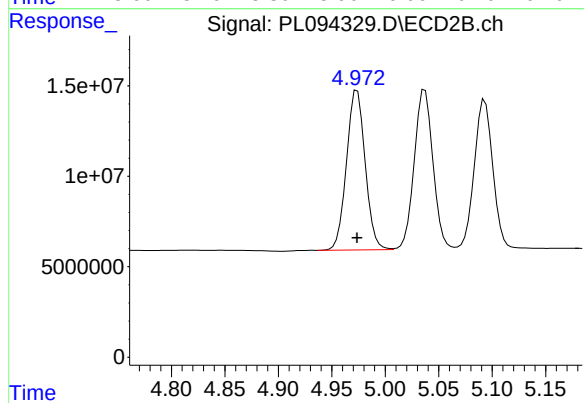
#9 Endosulfan I

R.T.: 5.093 min
Delta R.T.: 0.000 min
Response: 99489816
Conc: 25.10 ng/ml



#10 gamma-Chlordane

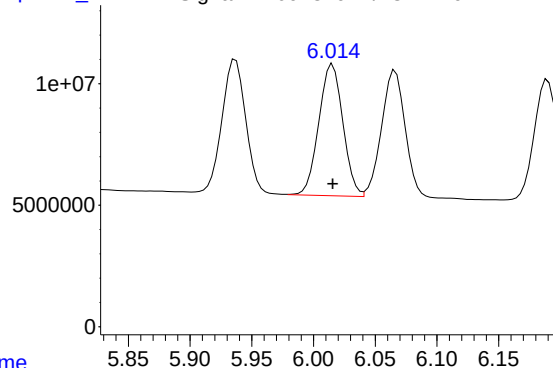
R.T.: 5.937 min
Delta R.T.: 0.000 min
Response: 73787635
Conc: 26.40 ng/ml



#10 gamma-Chlordane

R.T.: 4.974 min
Delta R.T.: 0.000 min
Response: 107541694
Conc: 24.90 ng/ml

Response_ Signal: PL094329.D\ECD1A.ch

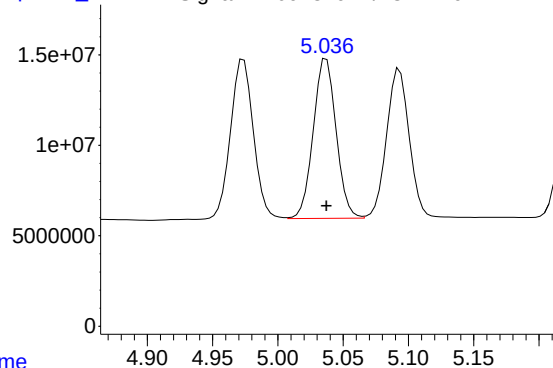


#11 alpha-Chlordane

R.T.: 6.016 min
Delta R.T.: 0.000 min
Response: 73419053
Conc: 26.47 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC025

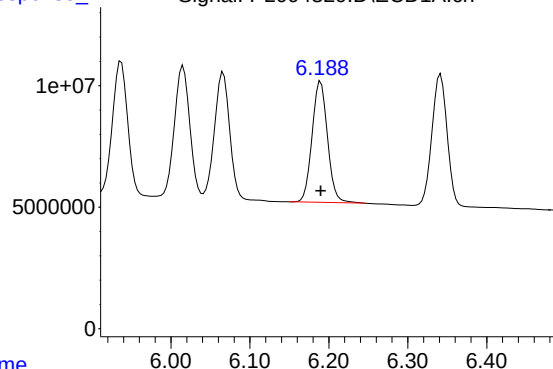
Time Response_ Signal: PL094329.D\ECD2B.ch



#11 alpha-Chlordane

R.T.: 5.037 min
Delta R.T.: 0.000 min
Response: 107599652
Conc: 25.13 ng/ml

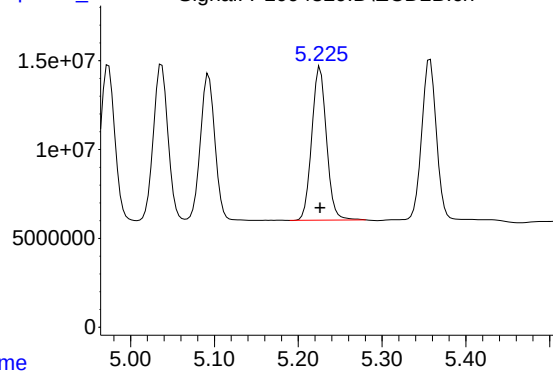
Time Response_ Signal: PL094329.D\ECD1A.ch



#12 4,4'-DDE

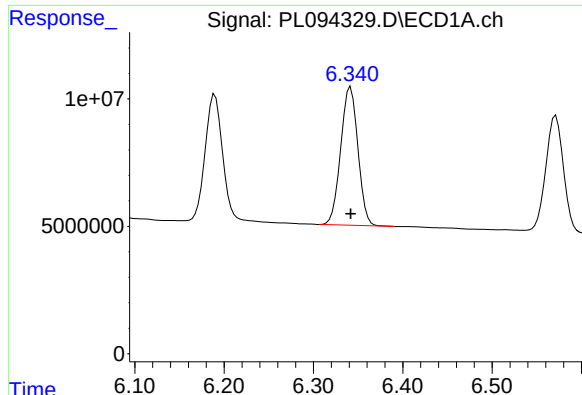
R.T.: 6.190 min
Delta R.T.: 0.000 min
Response: 67623636
Conc: 26.58 ng/ml

Time Response_ Signal: PL094329.D\ECD2B.ch



#12 4,4'-DDE

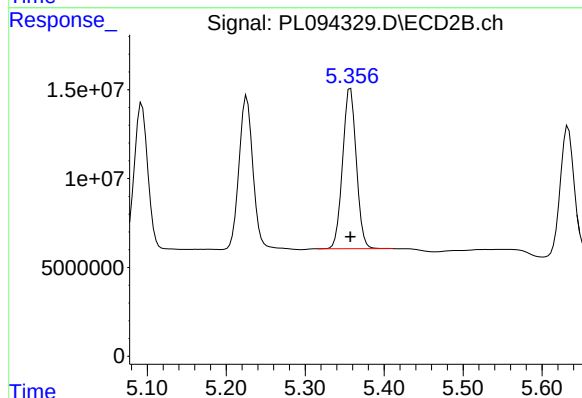
R.T.: 5.226 min
Delta R.T.: 0.000 min
Response: 105345546
Conc: 25.09 ng/ml



#13 Dieldrin

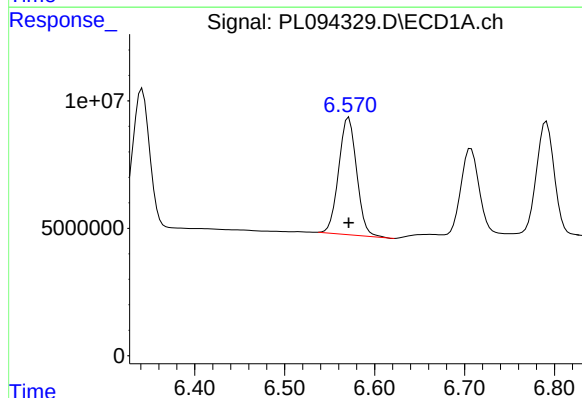
R.T.: 6.342 min
Delta R.T.: 0.000 min
Response: 72547132
Conc: 26.48 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC025



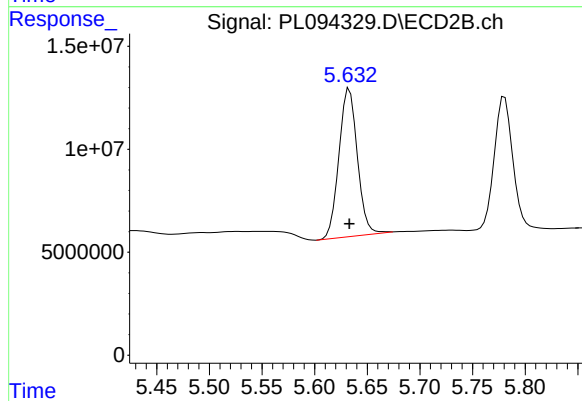
#13 Dieldrin

R.T.: 5.357 min
Delta R.T.: 0.000 min
Response: 108692758
Conc: 24.73 ng/ml



#14 Endrin

R.T.: 6.571 min
Delta R.T.: 0.000 min
Response: 64078269
Conc: 27.02 ng/ml



#14 Endrin

R.T.: 5.633 min
Delta R.T.: 0.000 min
Response: 87471143
Conc: 25.13 ng/ml

Response_ Signal: PL094329.D\ECD1A.ch

#15 Endosulfan II

R.T.: 6.791 min
Delta R.T.: 0.000 min
Response: 63395516
Conc: 26.91 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC025

Time

Response_ Signal: PL094329.D\ECD2B.ch

#15 Endosulfan II

R.T.: 5.928 min
Delta R.T.: 0.000 min
Response: 94176002
Conc: 25.18 ng/ml

Time

Response_ Signal: PL094329.D\ECD1A.ch

#16 4,4'-DDD

R.T.: 6.707 min
Delta R.T.: 0.000 min
Response: 48378655
Conc: 26.35 ng/ml

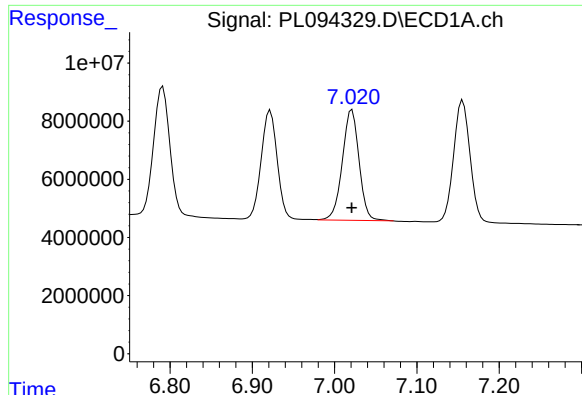
Time

Response_ Signal: PL094329.D\ECD2B.ch

#16 4,4'-DDD

R.T.: 5.780 min
Delta R.T.: 0.000 min
Response: 79168494
Conc: 24.63 ng/ml

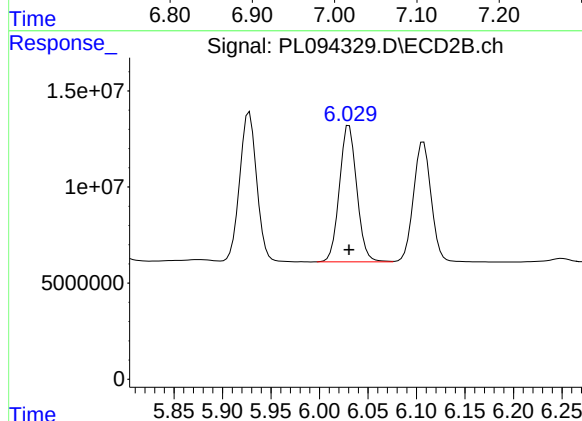
Time



#17 4,4'-DDT

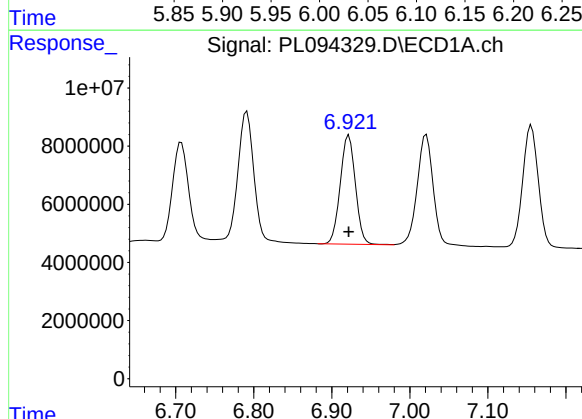
R.T.: 7.021 min
Delta R.T.: 0.000 min
Response: 53652973
Conc: 26.43 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC025



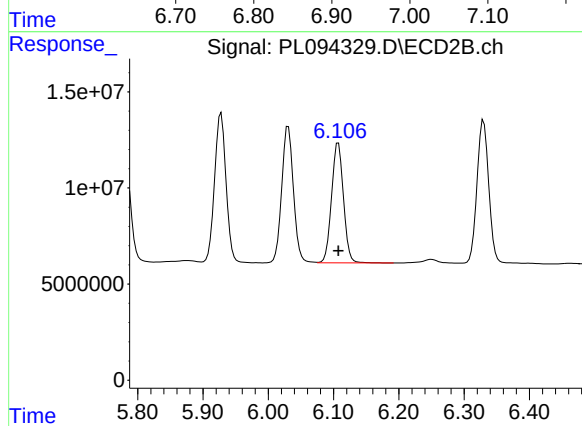
#17 4,4'-DDT

R.T.: 6.031 min
Delta R.T.: 0.000 min
Response: 88440476
Conc: 24.64 ng/ml



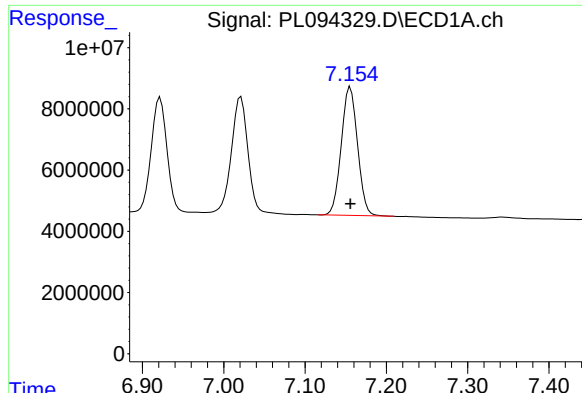
#18 Endrin aldehyde

R.T.: 6.922 min
Delta R.T.: 0.000 min
Response: 50501352
Conc: 27.11 ng/ml



#18 Endrin aldehyde

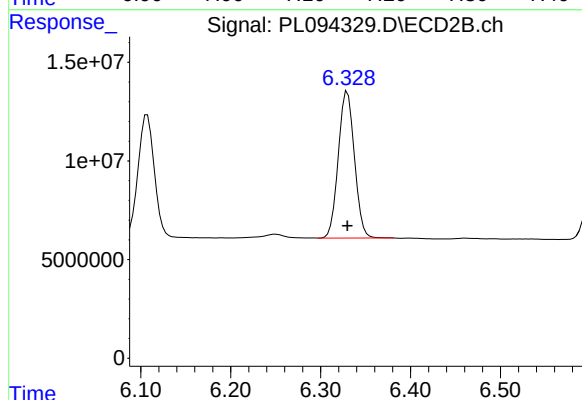
R.T.: 6.107 min
Delta R.T.: 0.000 min
Response: 78974212
Conc: 25.44 ng/ml



#19 Endosulfan Sulfate

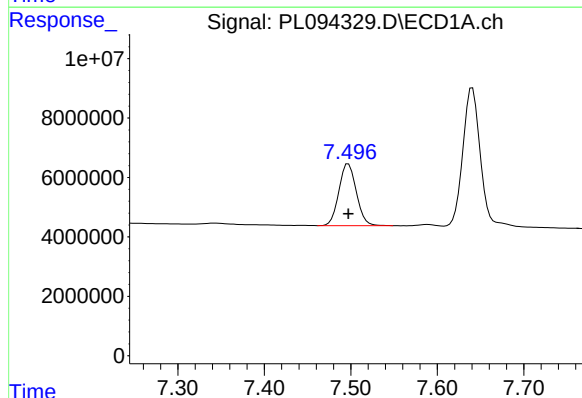
R.T.: 7.156 min
Delta R.T.: 0.000 min
Response: 58130876
Conc: 27.04 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC025



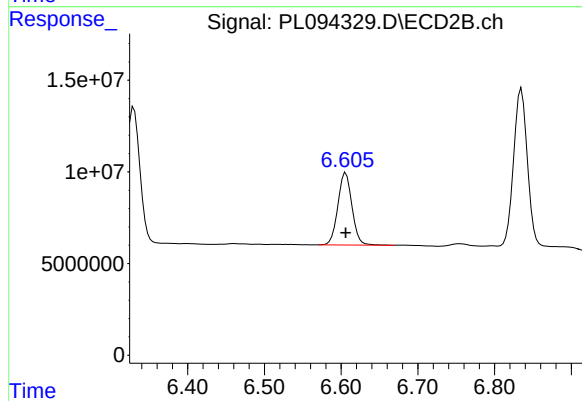
#19 Endosulfan Sulfate

R.T.: 6.330 min
Delta R.T.: 0.000 min
Response: 92670594
Conc: 25.30 ng/ml



#20 Methoxychlor

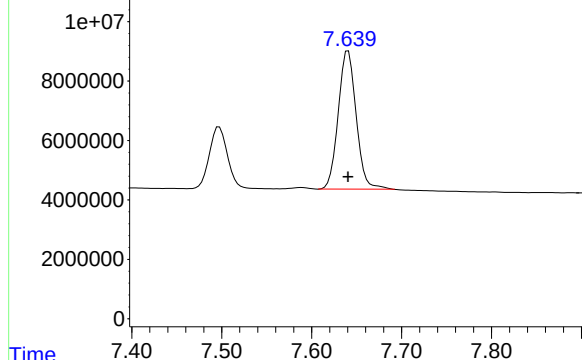
R.T.: 7.497 min
Delta R.T.: 0.000 min
Response: 29029751
Conc: 26.94 ng/ml



#20 Methoxychlor

R.T.: 6.606 min
Delta R.T.: 0.000 min
Response: 50159570
Conc: 25.82 ng/ml

Response_ Signal: PL094329.D\ECD1A.ch

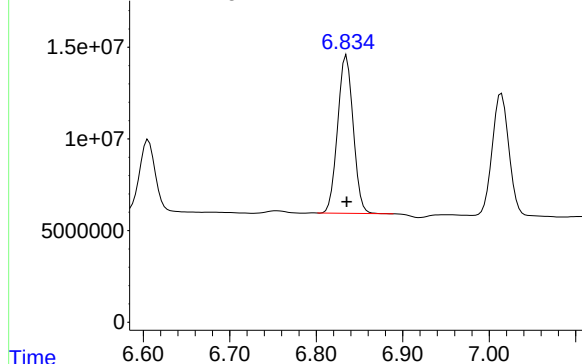


#21 Endrin ketone

R.T.: 7.641 min
Delta R.T.: 0.000 min
Response: 64585363
Conc: 26.74 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC025

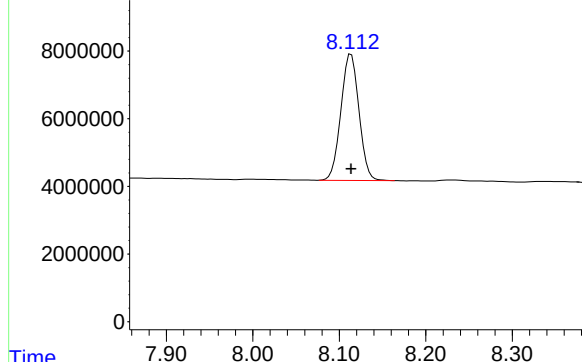
Response_ Signal: PL094329.D\ECD2B.ch



#21 Endrin ketone

R.T.: 6.835 min
Delta R.T.: 0.000 min
Response: 107037617
Conc: 25.19 ng/ml

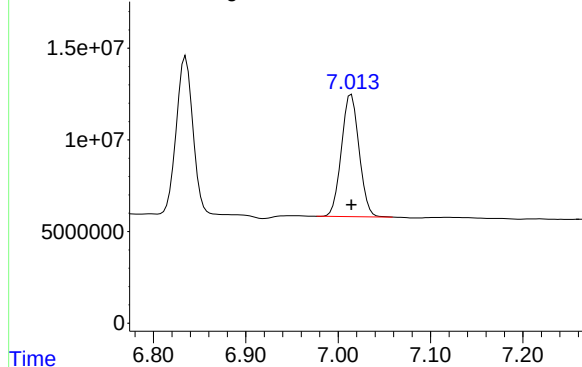
Response_ Signal: PL094329.D\ECD1A.ch



#22 Mirex

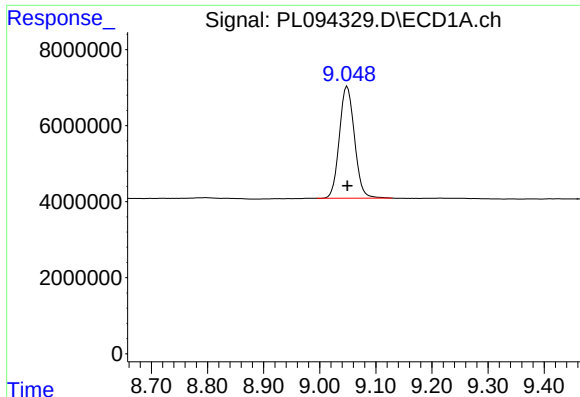
R.T.: 8.114 min
Delta R.T.: 0.000 min
Response: 53883808
Conc: 27.56 ng/ml

Response_ Signal: PL094329.D\ECD2B.ch



#22 Mirex

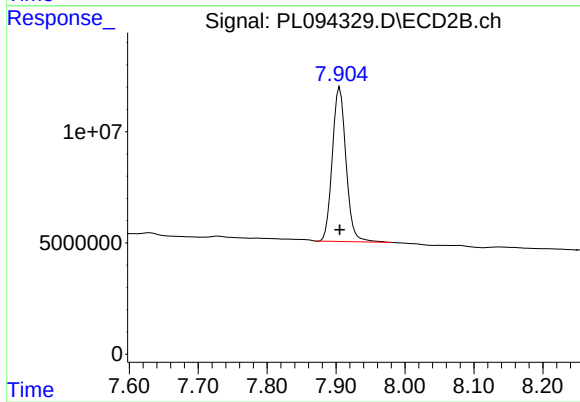
R.T.: 7.014 min
Delta R.T.: 0.000 min
Response: 88624231
Conc: 26.00 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.049 min
Delta R.T.: 0.000 min
Response: 55082778
Conc: 27.10 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC025



#28 Decachlorobiphenyl

R.T.: 7.905 min
Delta R.T.: 0.000 min
Response: 95505363
Conc: 25.78 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022125\
 Data File : PL094330.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Feb 2025 11:51
 Operator : AR\AJ
 Sample : PSTDICC005
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

PSTDICC005

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 02/22/2025

Supervised By :Ankita Jodhani 02/24/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 21 12:05:15 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
 Quant Title : GC Extractables
 QLast Update : Fri Feb 21 12:05:01 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 x0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.536	2.770	13893921	16489455	5.472	5.167
28) SA Decachlor...	9.048	7.903	12529853	22056508	5.890	5.825
Target Compounds						
2) A alpha-BHC	3.991	3.272	20555635	23378782	5.434	4.757
3) MA gamma-BHC...	4.324	3.602	20233816	22516168	5.476	4.781
4) MA Heptachlor	4.910	3.940	19331180	23664695	5.702	5.013
5) MB Aldrin	5.252	4.219	19638030	22603672	5.722	4.892
6) B beta-BHC	4.522	3.903	9178854	10767585	5.748	5.414
7) B delta-BHC	4.769	4.130	19696306	22459963	5.567	4.743
8) B Heptachlo...	5.679	4.721	17190524	21613421	5.705	5.079
9) A Endosulfan I	6.064	5.091	16349376	20388990	5.948	5.114
10) B gamma-Chl...	5.935	4.971	17511768	22076795	5.964	5.088
11) B alpha-Chl...	6.014	5.035	16944160	22301049	5.849	5.165
12) B 4,4'-DDE	6.187	5.224	14413995	21016395	5.519	5.004
13) MA Dieldrin	6.339	5.355	16426240	21629306	5.766	4.936
14) MA Endrin	6.569	5.629	16379313	15500218	6.418	4.563m#
15) B Endosulfa...	6.789	5.925	15821204	18687102	6.285	4.997
16) A 4,4'-DDD	6.705	5.778	9520371	15348463	5.147	4.819
17) MA 4,4'-DDT	7.019	6.028	11898212	17151631	5.666	4.822
18) B Endrin al...	6.919	6.105	11418647	16928007	5.865	5.356
19) B Endosulfa...	7.153	6.328	13602762	19096639	6.009	5.170
20) A Methoxychlor	7.495	6.603	6223633	9924447	5.602	5.087
21) B Endrin ke...	7.637	6.833	14369746	21715057	5.719m	5.088
22) Mirex	8.111	7.012	12483245	19001728	6.050	5.449

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022125\
Data File : PL094330.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2025 11:51
Operator : AR\AJ
Sample : PSTDICC005
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

PSTDICC005

Manual Integrations

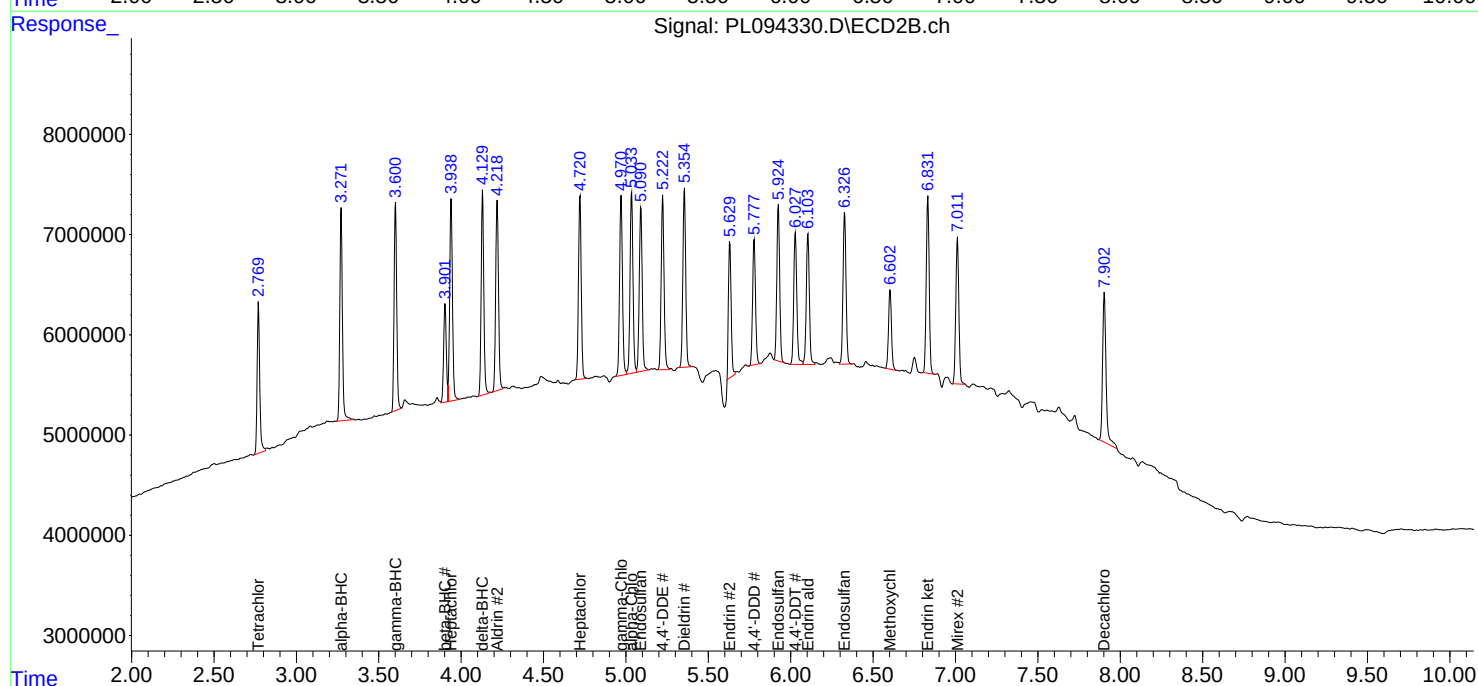
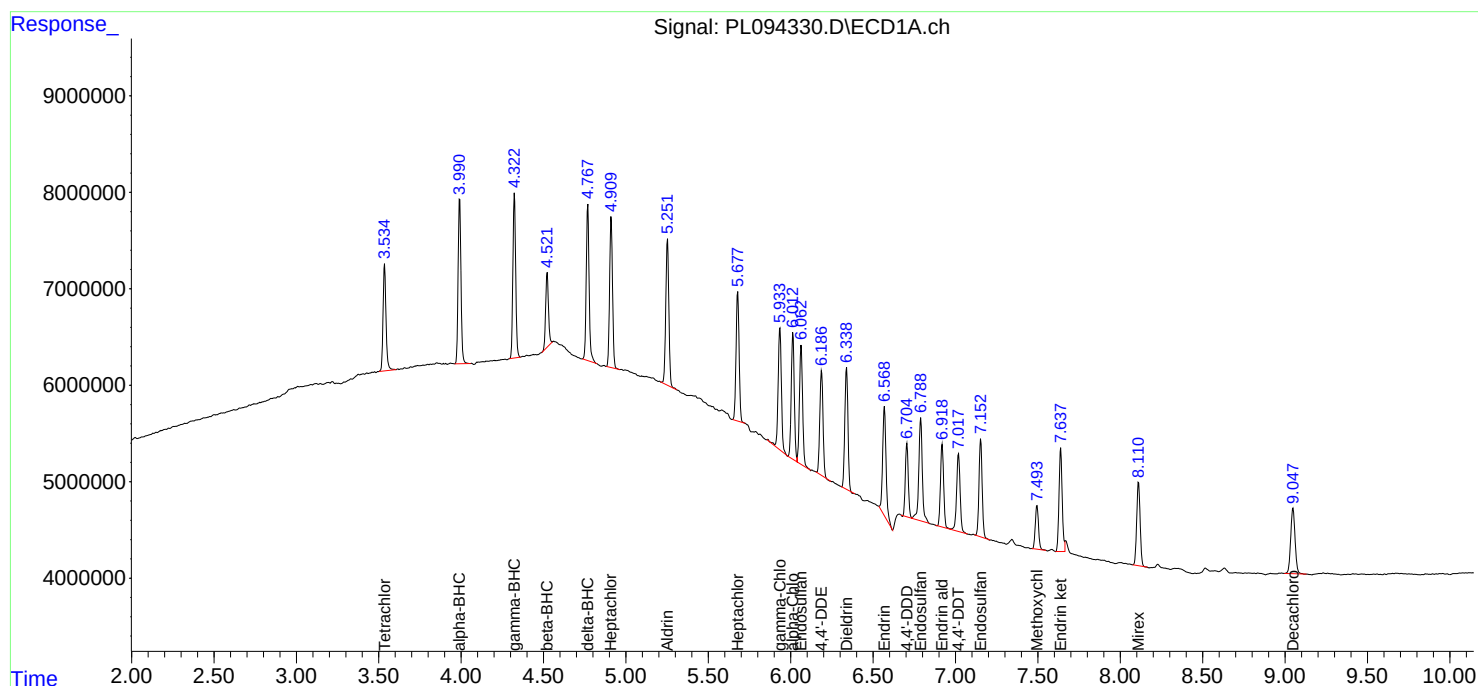
APPROVED

Reviewed By :Abdul Mirza 02/22/2025

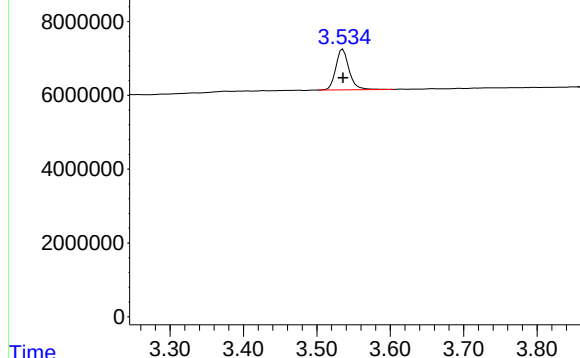
Supervised By :Ankita Jodhani 02/24/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 21 12:05:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 12:05:01 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 x0.25µm



Response_ Signal: PL094330.D\ECD1A.ch



#1 Tetrachloro-m-xylene

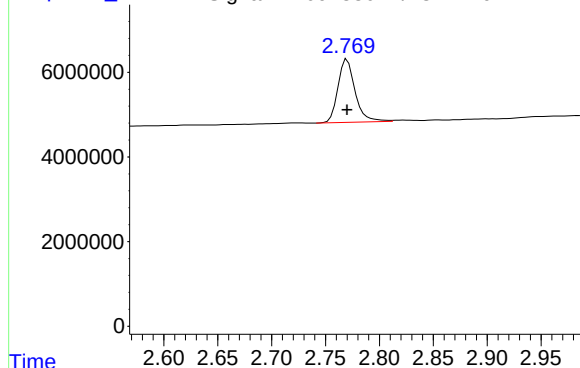
R.T.: 3.536 min
Delta R.T.: 0.000 min
Response: 13893921
Conc: 5.47 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC005

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/22/2025
Supervised By :Ankita Jodhani 02/24/2025

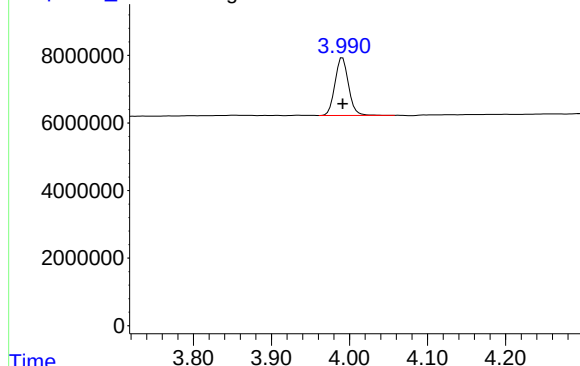
Time Response_ Signal: PL094330.D\ECD2B.ch



#1 Tetrachloro-m-xylene

R.T.: 2.770 min
Delta R.T.: 0.000 min
Response: 16489455
Conc: 5.17 ng/ml

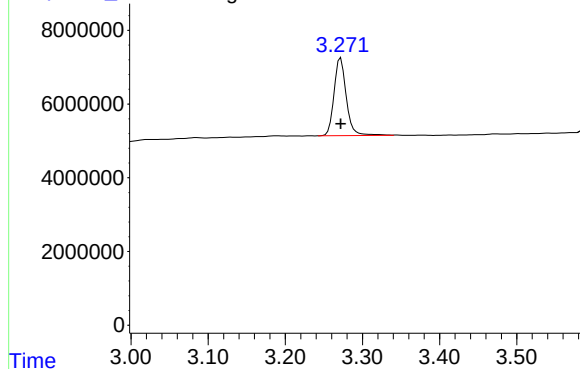
Time Response_ Signal: PL094330.D\ECD1A.ch



#2 alpha-BHC

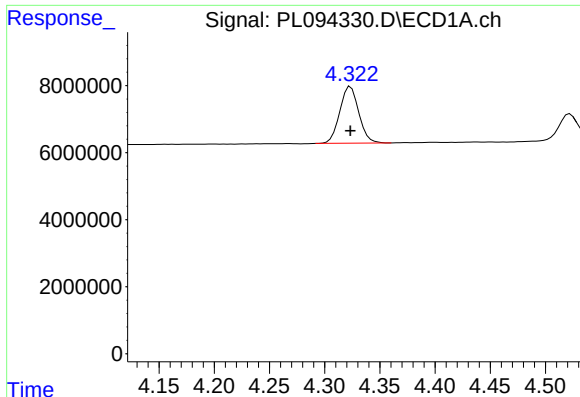
R.T.: 3.991 min
Delta R.T.: 0.000 min
Response: 20555635
Conc: 5.43 ng/ml

Time Response_ Signal: PL094330.D\ECD2B.ch



#2 alpha-BHC

R.T.: 3.272 min
Delta R.T.: 0.000 min
Response: 23378782
Conc: 4.76 ng/ml



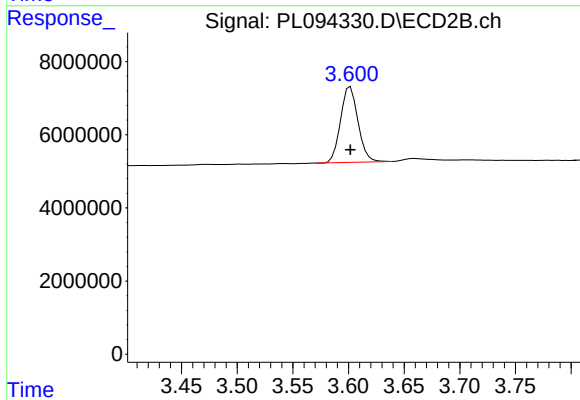
#3 gamma-BHC (Lindane)

R.T.: 4.324 min
Delta R.T.: 0.000 min
Response: 20233816
Conc: 5.48 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC005

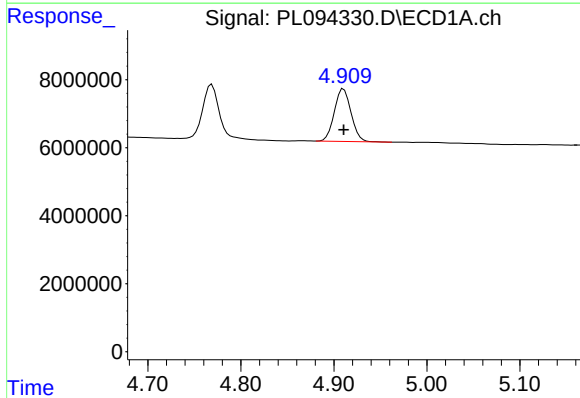
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/22/2025
Supervised By :Ankita Jodhani 02/24/2025



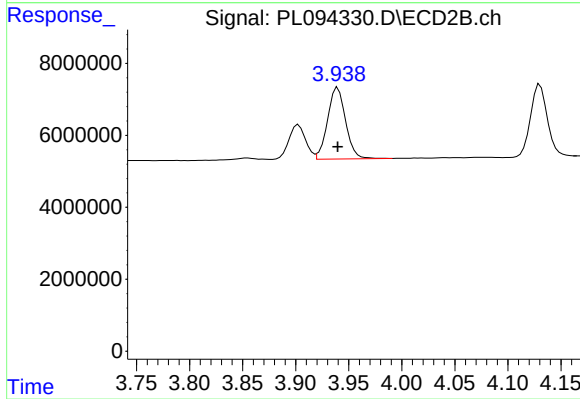
#3 gamma-BHC (Lindane)

R.T.: 3.602 min
Delta R.T.: 0.000 min
Response: 22516168
Conc: 4.78 ng/ml



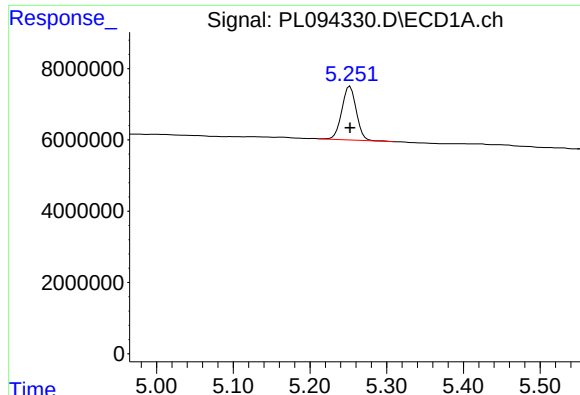
#4 Heptachlor

R.T.: 4.910 min
Delta R.T.: 0.000 min
Response: 19331180
Conc: 5.70 ng/ml



#4 Heptachlor

R.T.: 3.940 min
Delta R.T.: 0.000 min
Response: 23664695
Conc: 5.01 ng/ml



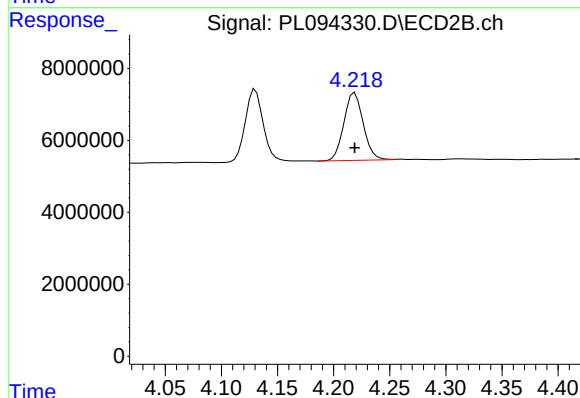
#5 Aldrin

R.T.: 5.252 min
Delta R.T.: 0.000 min
Response: 19638030
Conc: 5.72 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC005

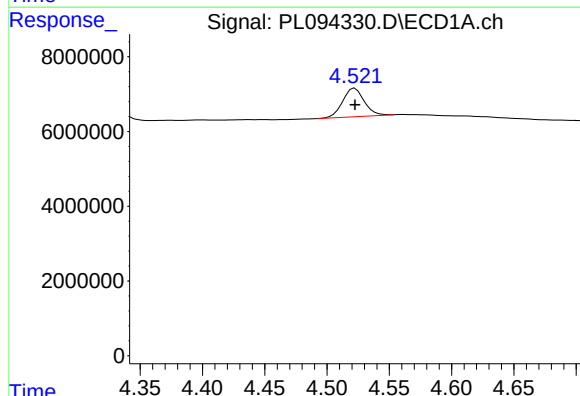
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/22/2025
Supervised By :Ankita Jodhani 02/24/2025



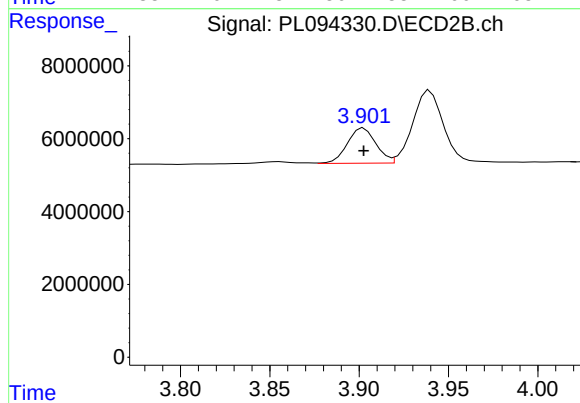
#5 Aldrin

R.T.: 4.219 min
Delta R.T.: 0.000 min
Response: 22603672
Conc: 4.89 ng/ml



#6 beta-BHC

R.T.: 4.522 min
Delta R.T.: 0.000 min
Response: 9178854
Conc: 5.75 ng/ml

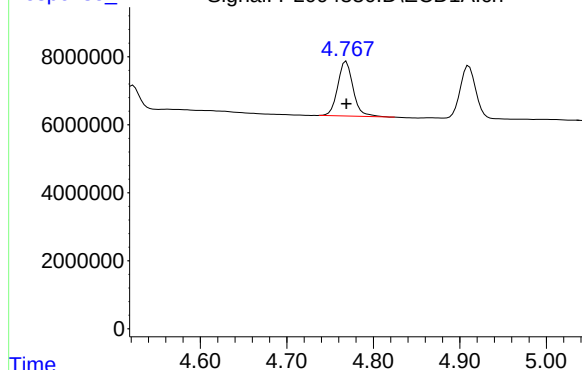


#6 beta-BHC

R.T.: 3.903 min
Delta R.T.: 0.000 min
Response: 10767585
Conc: 5.41 ng/ml

Response_ Signal: PL094330.D\ECD1A.ch

#7 delta-BHC



R.T.: 4.769 min
Delta R.T.: 0.000 min
Response: 19696306
Conc: 5.57 ng/ml

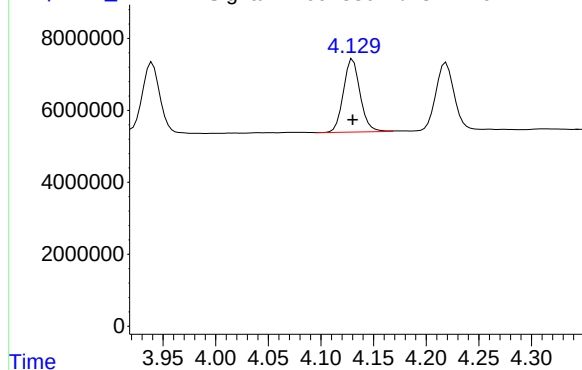
Instrument :
ECD_L
ClientSampleId :
PSTDICC005

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Supervised By :Ankita Jodhani 02/24/2025

Time Response_ Signal: PL094330.D\ECD2B.ch

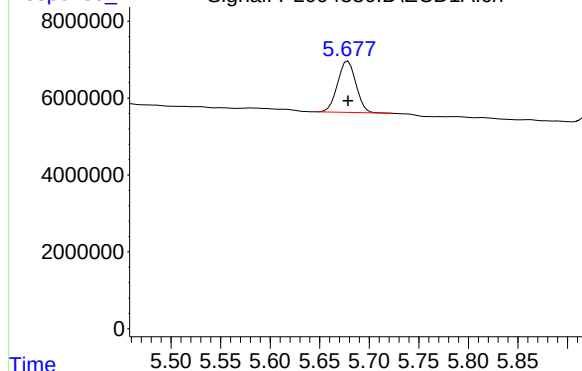
#7 delta-BHC



R.T.: 4.130 min
Delta R.T.: 0.000 min
Response: 22459963
Conc: 4.74 ng/ml

Time Response_ Signal: PL094330.D\ECD1A.ch

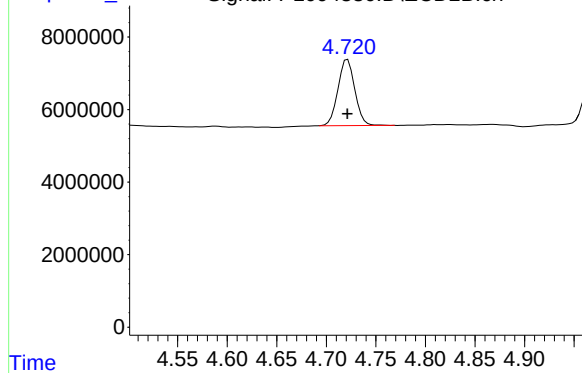
#8 Heptachlor epoxide



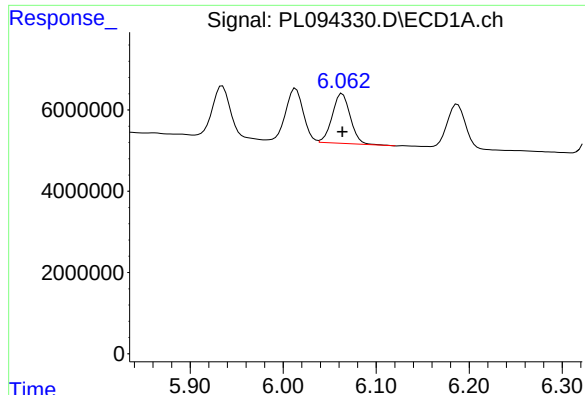
R.T.: 5.679 min
Delta R.T.: 0.000 min
Response: 17190524
Conc: 5.70 ng/ml

Time Response_ Signal: PL094330.D\ECD2B.ch

#8 Heptachlor epoxide



R.T.: 4.721 min
Delta R.T.: 0.000 min
Response: 21613421
Conc: 5.08 ng/ml



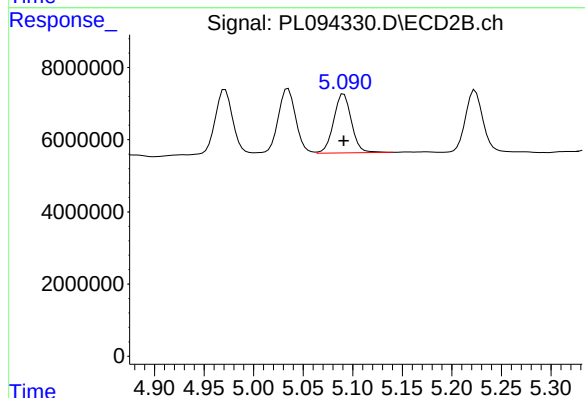
#9 Endosulfan I

R.T.: 6.064 min
Delta R.T.: 0.000 min
Response: 16349376
Conc: 5.95 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC005

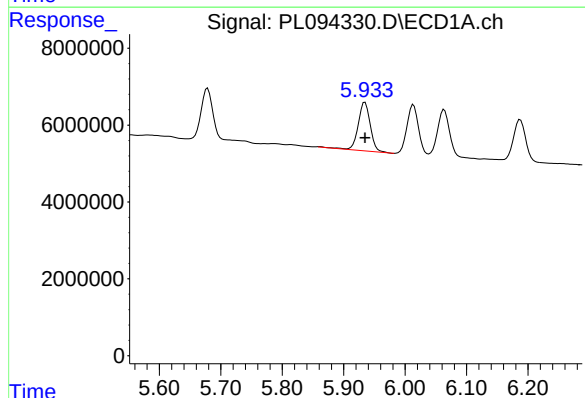
Manual Integrations
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Supervised By :Ankita Jodhani 02/24/2025



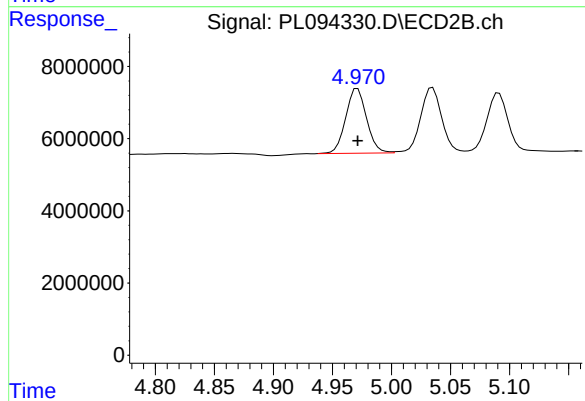
#9 Endosulfan I

R.T.: 5.091 min
Delta R.T.: 0.000 min
Response: 20388990
Conc: 5.11 ng/ml



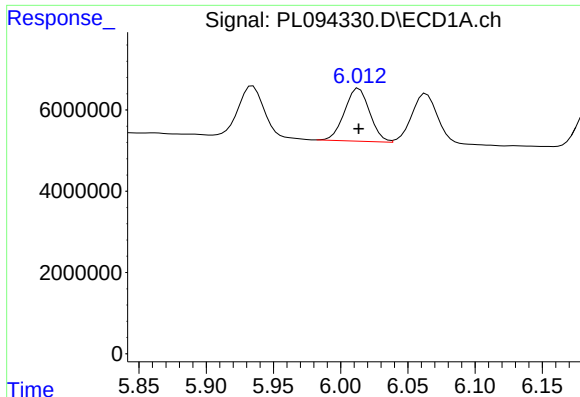
#10 gamma-Chlordane

R.T.: 5.935 min
Delta R.T.: 0.000 min
Response: 17511768
Conc: 5.96 ng/ml



#10 gamma-Chlordane

R.T.: 4.971 min
Delta R.T.: 0.000 min
Response: 22076795
Conc: 5.09 ng/ml



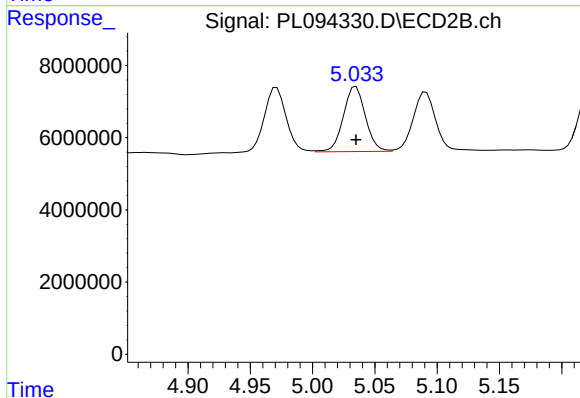
#11 alpha-Chlordane

R.T.: 6.014 min
Delta R.T.: 0.000 min
Response: 16944160
Conc: 5.85 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC005

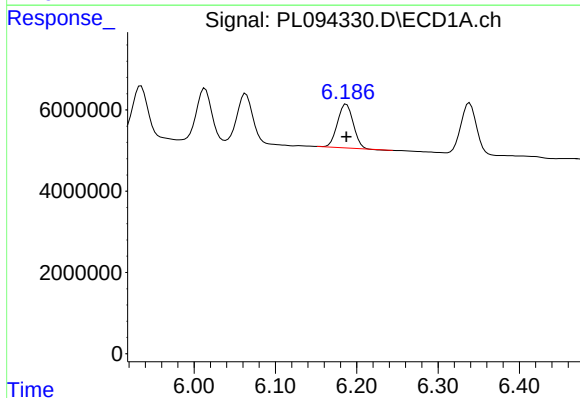
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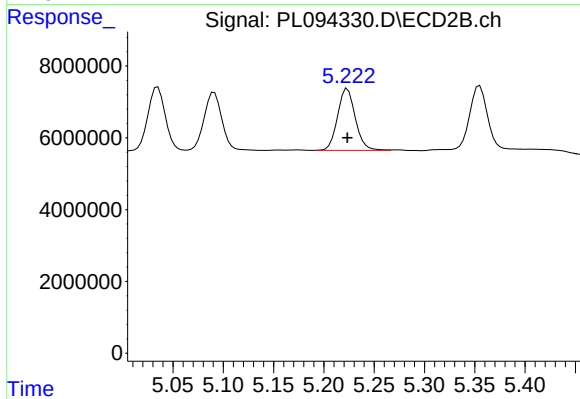
#11 alpha-Chlordane

R.T.: 5.035 min
Delta R.T.: 0.000 min
Response: 22301049
Conc: 5.17 ng/ml



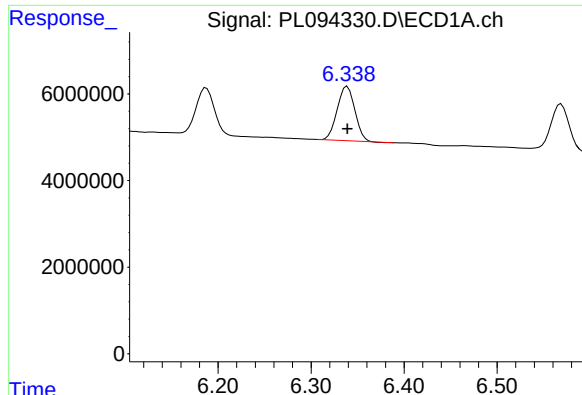
#12 4,4'-DDE

R.T.: 6.187 min
Delta R.T.: 0.000 min
Response: 14413995
Conc: 5.52 ng/ml



#12 4,4'-DDE

R.T.: 5.224 min
Delta R.T.: 0.000 min
Response: 21016395
Conc: 5.00 ng/ml



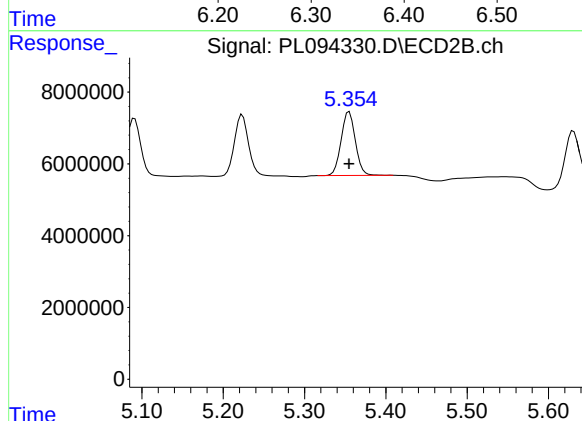
#13 Dieldrin

R.T.: 6.339 min
Delta R.T.: 0.000 min
Response: 16426240
Conc: 5.77 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC005

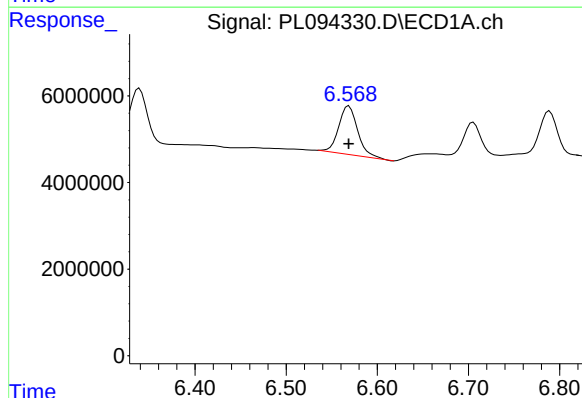
Manual Integrations
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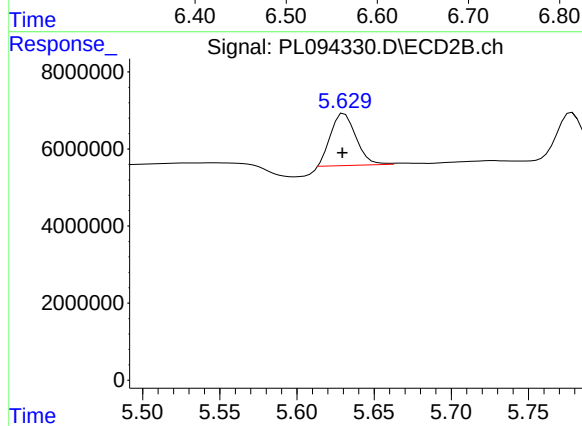
#13 Dieldrin

R.T.: 5.355 min
Delta R.T.: 0.000 min
Response: 21629306
Conc: 4.94 ng/ml



#14 Endrin

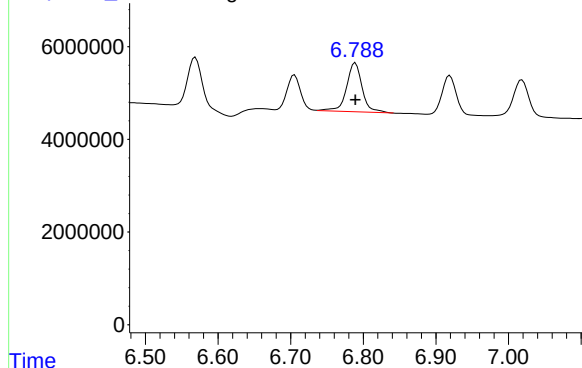
R.T.: 6.569 min
Delta R.T.: 0.000 min
Response: 16379313
Conc: 6.42 ng/ml



#14 Endrin

R.T.: 5.629 min
Delta R.T.: 0.000 min
Response: 15500218
Conc: 4.56 ng/ml m

Response_ Signal: PL094330.D\ECD1A.ch



#15 Endosulfan II

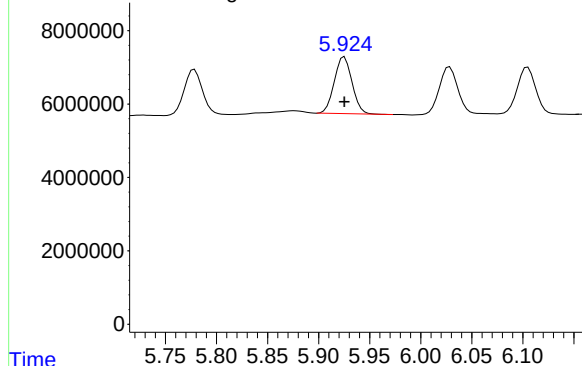
R.T.: 6.789 min
Delta R.T.: 0.000 min
Response: 15821204
Conc: 6.29 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC005

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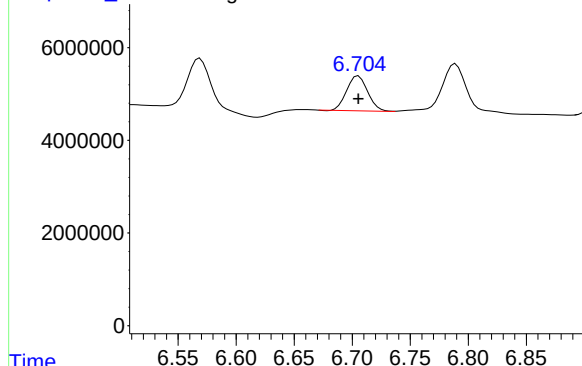
Time Response_ Signal: PL094330.D\ECD2B.ch



#15 Endosulfan II

R.T.: 5.925 min
Delta R.T.: 0.000 min
Response: 18687102
Conc: 5.00 ng/ml

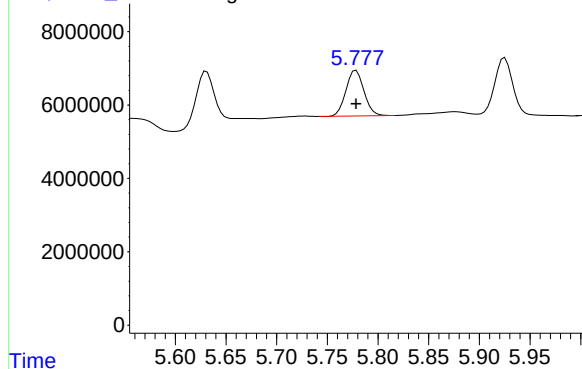
Time Response_ Signal: PL094330.D\ECD1A.ch



#16 4,4'-DDD

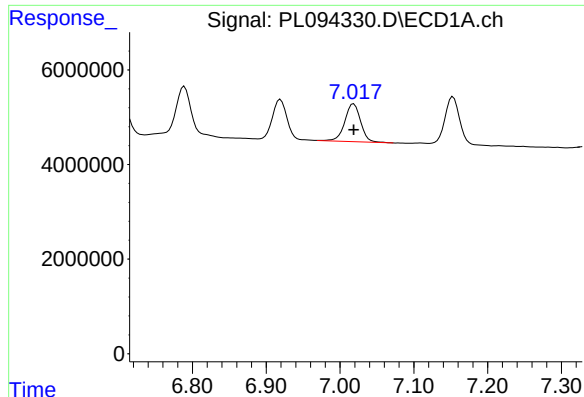
R.T.: 6.705 min
Delta R.T.: 0.000 min
Response: 9520371
Conc: 5.15 ng/ml

Time Response_ Signal: PL094330.D\ECD2B.ch



#16 4,4'-DDD

R.T.: 5.778 min
Delta R.T.: 0.000 min
Response: 15348463
Conc: 4.82 ng/ml



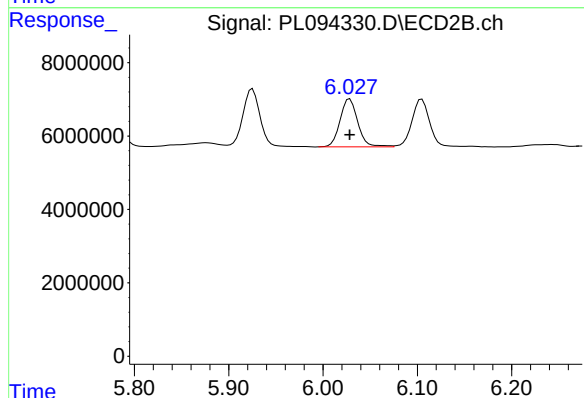
#17 4,4'-DDT

R.T.: 7.019 min
Delta R.T.: 0.000 min
Response: 11898212
Conc: 5.67 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC005

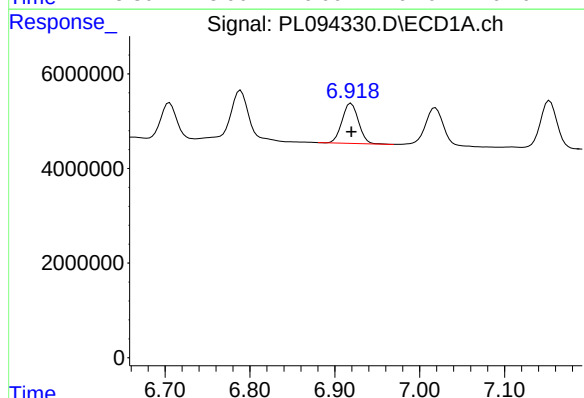
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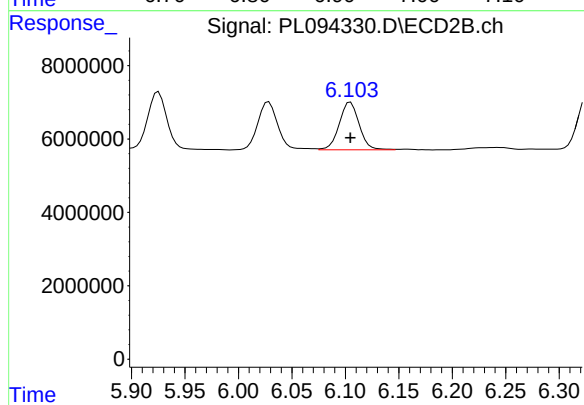
#17 4,4'-DDT

R.T.: 6.028 min
Delta R.T.: 0.000 min
Response: 17151631
Conc: 4.82 ng/ml



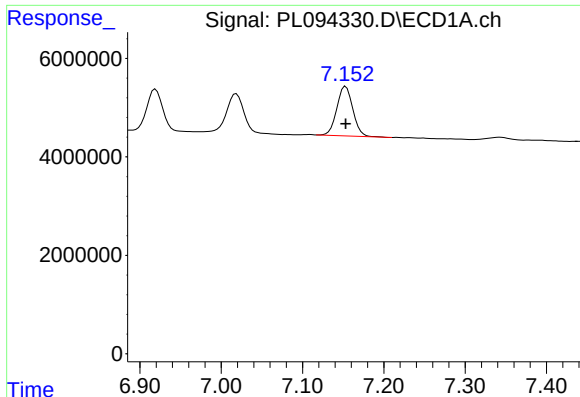
#18 Endrin aldehyde

R.T.: 6.919 min
Delta R.T.: 0.000 min
Response: 11418647
Conc: 5.87 ng/ml



#18 Endrin aldehyde

R.T.: 6.105 min
Delta R.T.: 0.000 min
Response: 16928007
Conc: 5.36 ng/ml



#19 Endosulfan Sulfate

R.T.: 7.153 min
Delta R.T.: 0.000 min
Response: 13602762
Conc: 6.01 ng/ml

Instrument :

ECD_L

ClientSampleId :

PSTDICC005

Manual Integrations

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#19 Endosulfan Sulfate

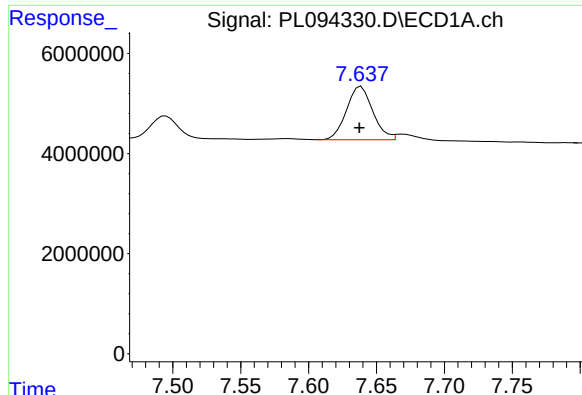
R.T.: 6.328 min
Delta R.T.: 0.000 min
Response: 19096639
Conc: 5.17 ng/ml

#20 Methoxychlor

R.T.: 7.495 min
Delta R.T.: 0.000 min
Response: 6223633
Conc: 5.60 ng/ml

#20 Methoxychlor

R.T.: 6.603 min
Delta R.T.: 0.000 min
Response: 9924447
Conc: 5.09 ng/ml



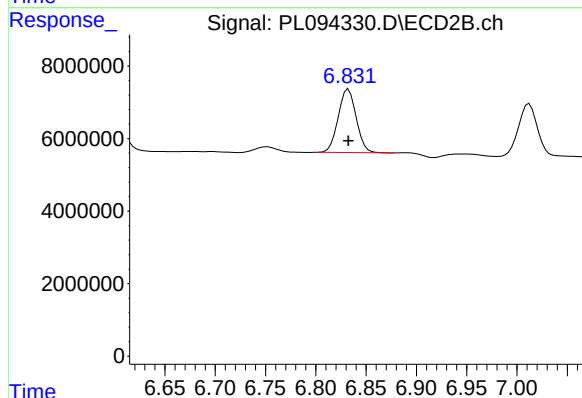
#21 Endrin ketone

R.T.: 7.637 min
Delta R.T.: 0.000 min
Response: 14369746
Conc: 5.72 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC005

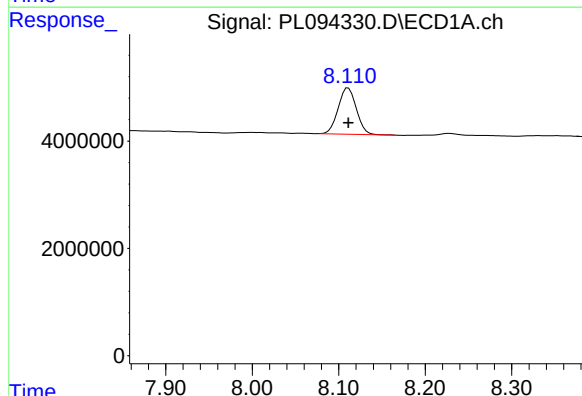
Manual Integrations
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Supervised By :Ankita Jodhani 02/24/2025



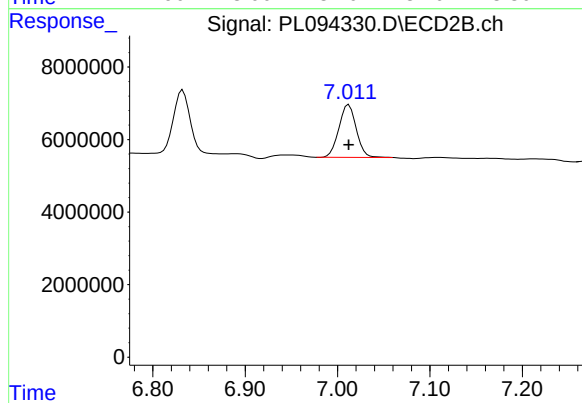
#21 Endrin ketone

R.T.: 6.833 min
Delta R.T.: 0.000 min
Response: 21715057
Conc: 5.09 ng/ml



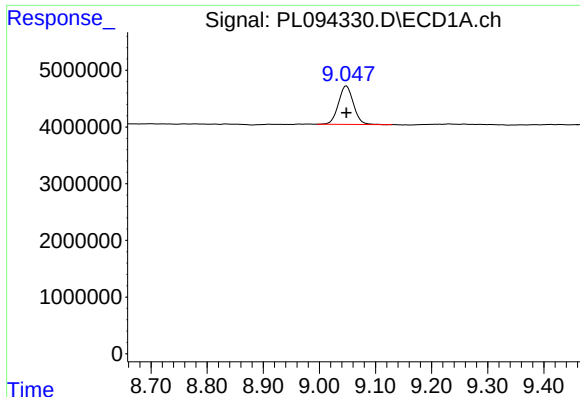
#22 Mirex

R.T.: 8.111 min
Delta R.T.: 0.000 min
Response: 12483245
Conc: 6.05 ng/ml



#22 Mirex

R.T.: 7.012 min
Delta R.T.: 0.000 min
Response: 19001728
Conc: 5.45 ng/ml



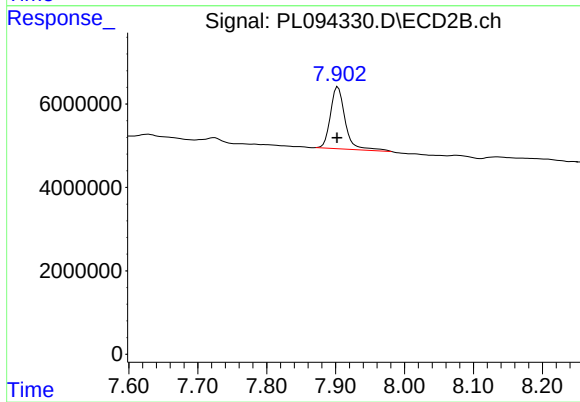
#28 Decachlorobiphenyl

R.T.: 9.048 min
Delta R.T.: 0.000 min
Response: 12529853
Conc: 5.89 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDICC005

Manual Integrations
APPROVED

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Supervised By :Ankita Jodhani 02/24/2025



#28 Decachlorobiphenyl

R.T.: 7.903 min
Delta R.T.: 0.001 min
Response: 22056508
Conc: 5.83 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022125\
Data File : PL094333.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2025 12:32
Operator : AR\AJ
Sample : PCHLORICC500
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PCHLORICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 21 13:07:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 13:07:33 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 x0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
1)	SA Tetrachlo...	3.535	2.769	124.0E6	193.5E6	50.000	50.000
28)	SA Decachlor...	9.048	7.903	102.9E6	189.5E6	50.000	50.000
Target Compounds							
23)	Chlordane-1	4.695	3.765	61431327	66942088	500.000	500.000
24)	Chlordane-2	5.225	4.342	61194663	76300761	500.000	500.000
25)	Chlordane-3	5.935	4.971	209.0E6	235.5E6	500.000	500.000
26)	Chlordane-4	6.017	5.034	251.5E6	230.8E6	500.000	500.000
27)	Chlordane-5	6.866	5.929	48579793	80746470	500.000	500.000

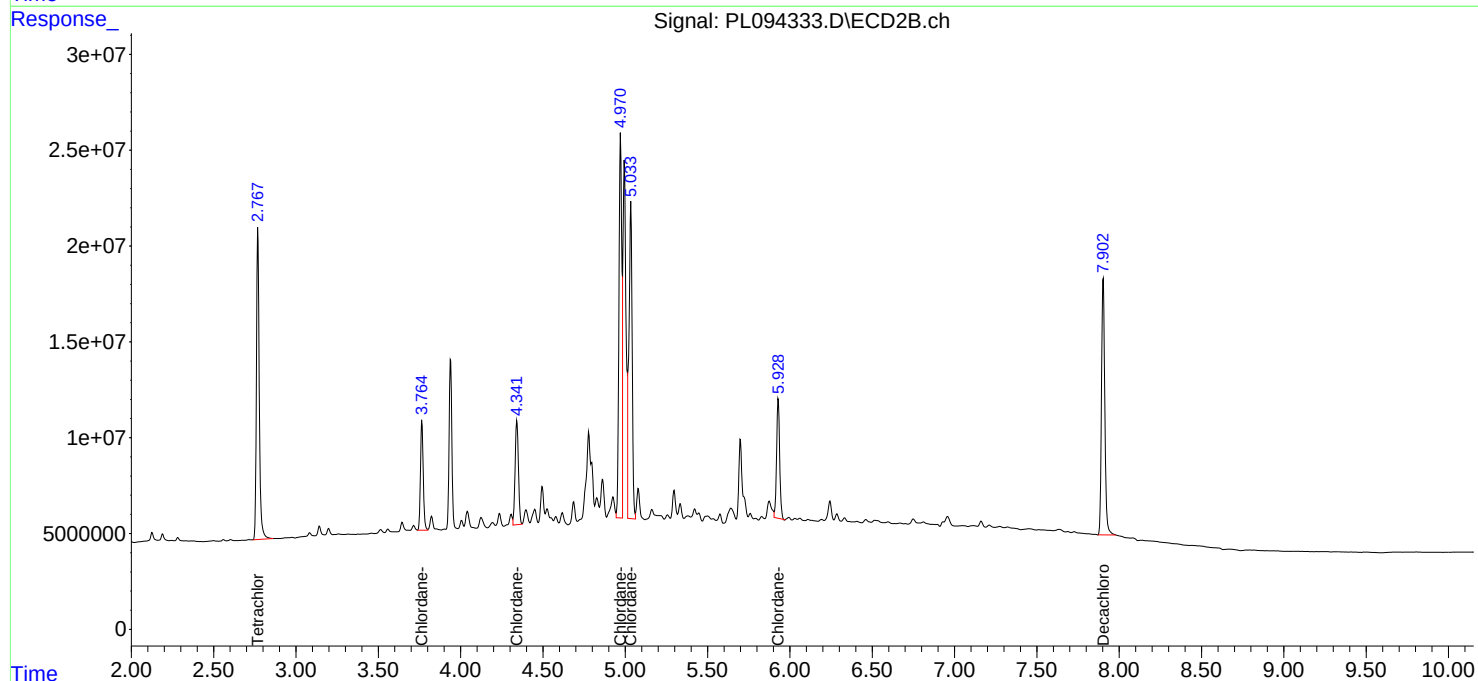
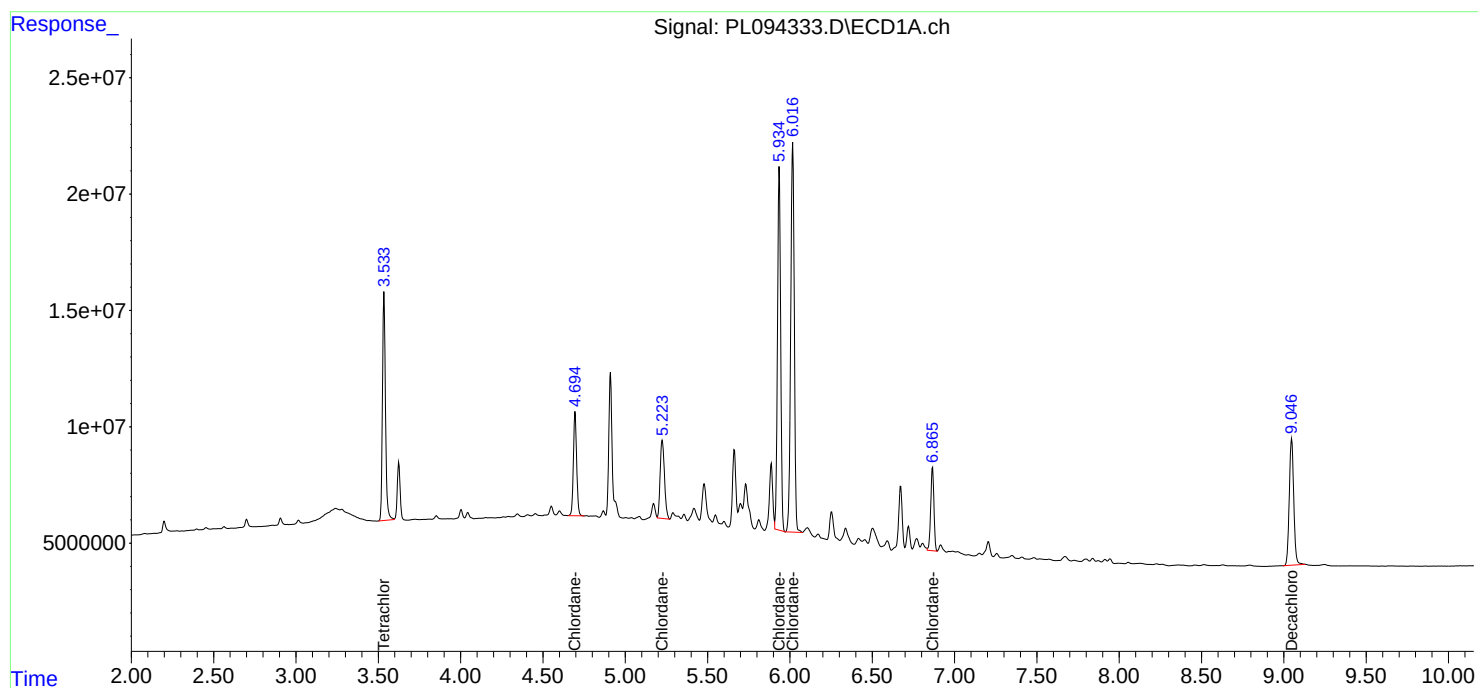
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

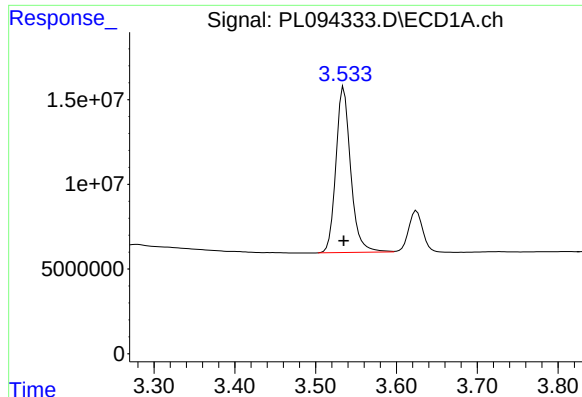
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022125\
Data File : PL094333.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2025 12:32
Operator : AR\AJ
Sample : PCHLORICC500
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PCHLORICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 21 13:07:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 13:07:33 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 x0.25µm

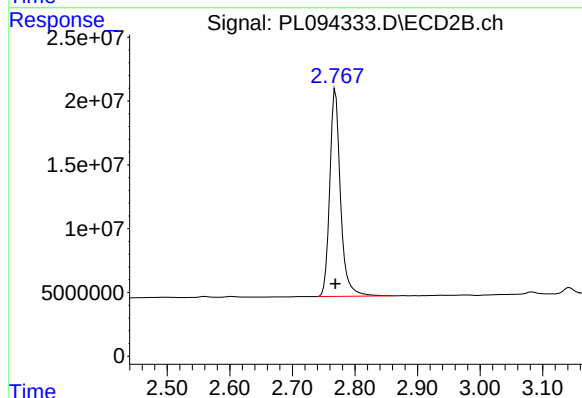




#1 Tetrachloro-m-xylene

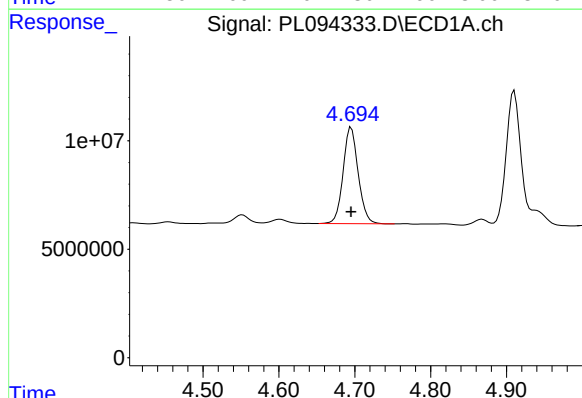
R.T.: 3.535 min
Delta R.T.: 0.000 min
Response: 124004599
Conc: 50.00 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC500



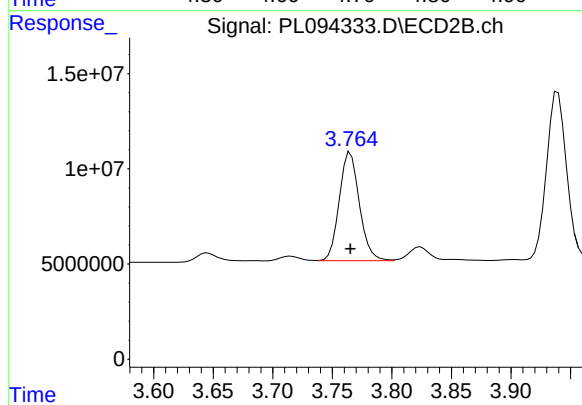
#1 Tetrachloro-m-xylene

R.T.: 2.769 min
Delta R.T.: 0.000 min
Response: 193525723
Conc: 50.00 ng/ml



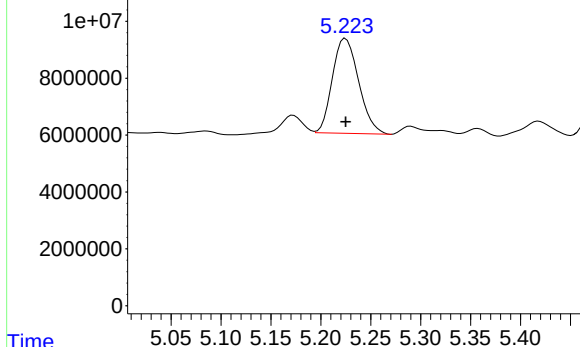
#23 Chlordane-1

R.T.: 4.695 min
Delta R.T.: 0.000 min
Response: 61431327
Conc: 500.00 ng/ml



#23 Chlordane-1

R.T.: 3.765 min
Delta R.T.: 0.000 min
Response: 66942088
Conc: 500.00 ng/ml



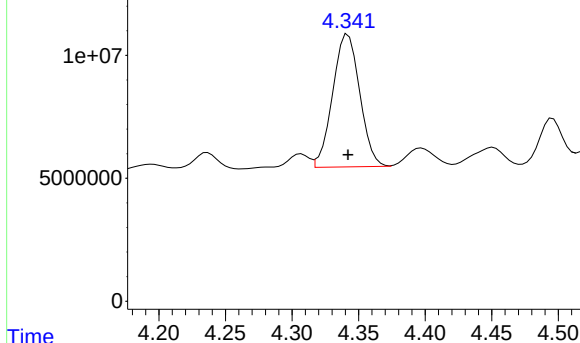
R.T.: 5.225 min
Delta R.T.: 0.000 min
Response: 61194663
Conc: 500.00 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC500

Time

Response_ Signal: PL094333.D\ECD2B.ch

#24 Chlordane-2

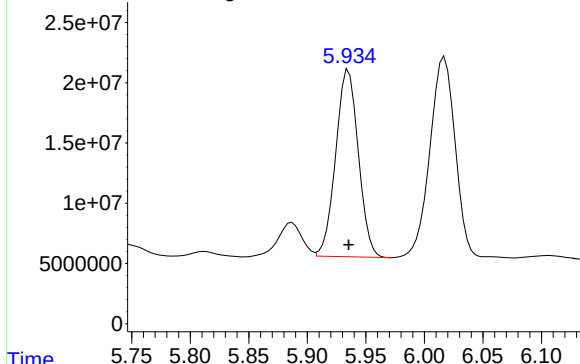


R.T.: 4.342 min
Delta R.T.: 0.000 min
Response: 76300761
Conc: 500.00 ng/ml

Time

Response_ Signal: PL094333.D\ECD1A.ch

#25 Chlordane-3

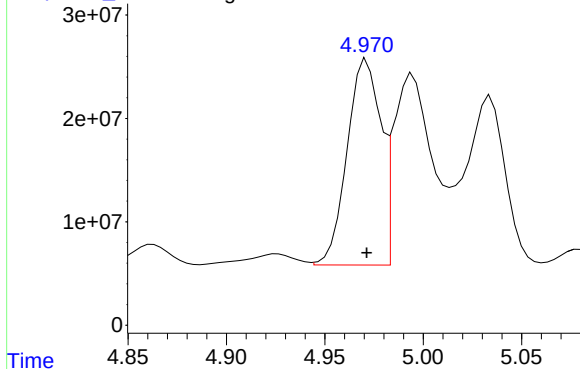


R.T.: 5.935 min
Delta R.T.: 0.000 min
Response: 208985572
Conc: 500.00 ng/ml

Time

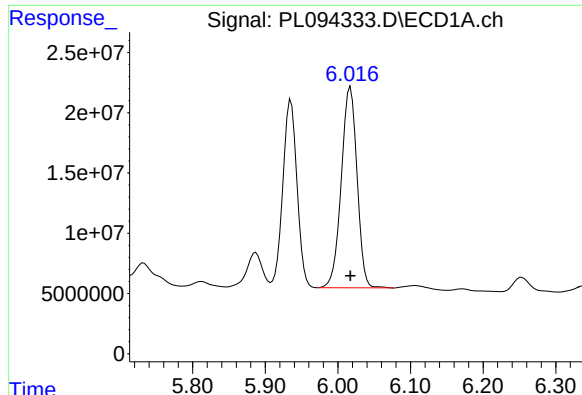
Response_ Signal: PL094333.D\ECD2B.ch

#25 Chlordane-3



R.T.: 4.971 min
Delta R.T.: 0.000 min
Response: 235511580
Conc: 500.00 ng/ml

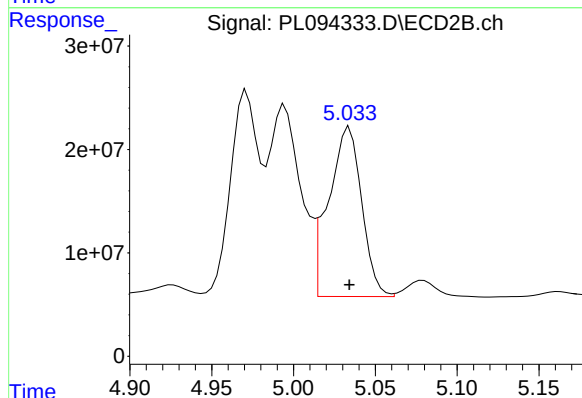
Time



#26 Chlordane-4

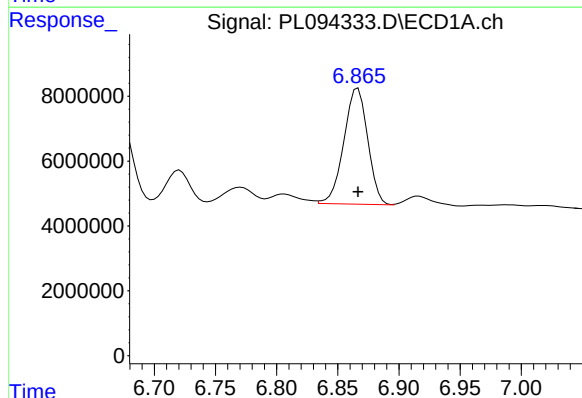
R.T.: 6.017 min
Delta R.T.: 0.000 min
Response: 251488949
Conc: 500.00 ng/ml

Instrument :
ECD_L
ClientSampleId :
PCHLORICC500



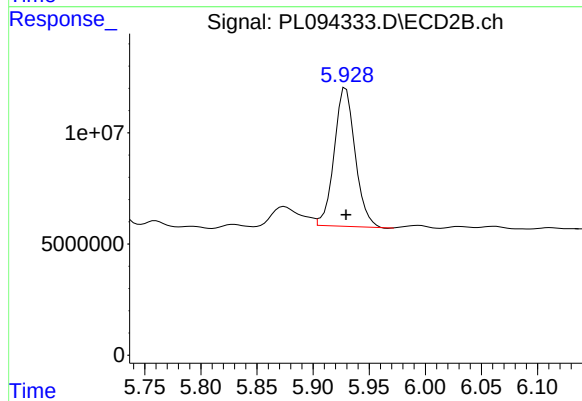
#26 Chlordane-4

R.T.: 5.034 min
Delta R.T.: 0.000 min
Response: 230825646
Conc: 500.00 ng/ml



#27 Chlordane-5

R.T.: 6.866 min
Delta R.T.: 0.000 min
Response: 48579793
Conc: 500.00 ng/ml



#27 Chlordane-5

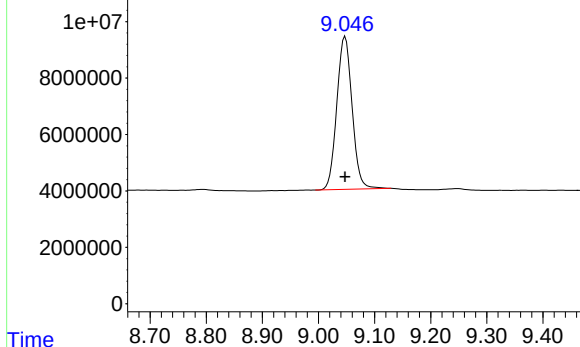
R.T.: 5.929 min
Delta R.T.: 0.000 min
Response: 80746470
Conc: 500.00 ng/ml

Response_

Signal: PL094333.D\ECD1A.ch

#28 Decachlorobiphenyl

ICAL Form



R.T.: 9.048 min
Delta R.T.: 0.000 min
Response: 102855150
Conc: 50.00 ng/ml

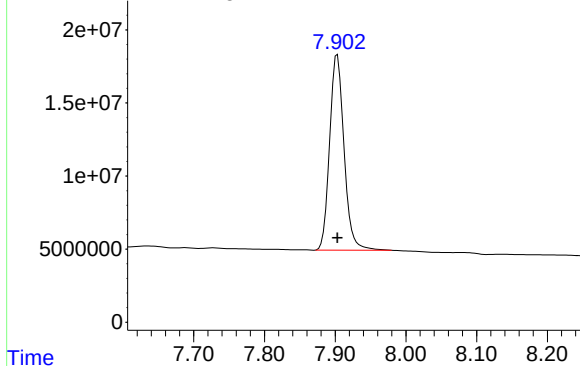
Instrument :
ECD_L
ClientSampleId :
PCHLORICC500

Time

Response_

Signal: PL094333.D\ECD2B.ch

#28 Decachlorobiphenyl



R.T.: 7.903 min
Delta R.T.: 0.000 min
Response: 189493879
Conc: 50.00 ng/ml

Time

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022125\
Data File : PL094338.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2025 13:40
Operator : AR\AJ
Sample : PTOXICC500
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PTOXICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 21 13:50:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 13:50:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x0.3 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						
1) SA Tetrachlo...	3.536	2.770	129.5E6	167.2E6	50.000	50.000
7) SA Decachlor...	9.048	7.904	109.7E6	205.2E6	50.000	50.000
Target Compounds						
2) Toxaphene-1	6.232	4.996	13751314	13759846	500.000	500.000
3) Toxaphene-2	6.436	5.321	7877776	13319380	500.000	500.000
4) Toxaphene-3	7.054	5.679	42845805	14148921	500.000	500.000
5) Toxaphene-4	7.145	6.593	32072265	49236853	500.000	500.000
6) Toxaphene-5	7.929	7.034	24016646	45355859	500.000	500.000

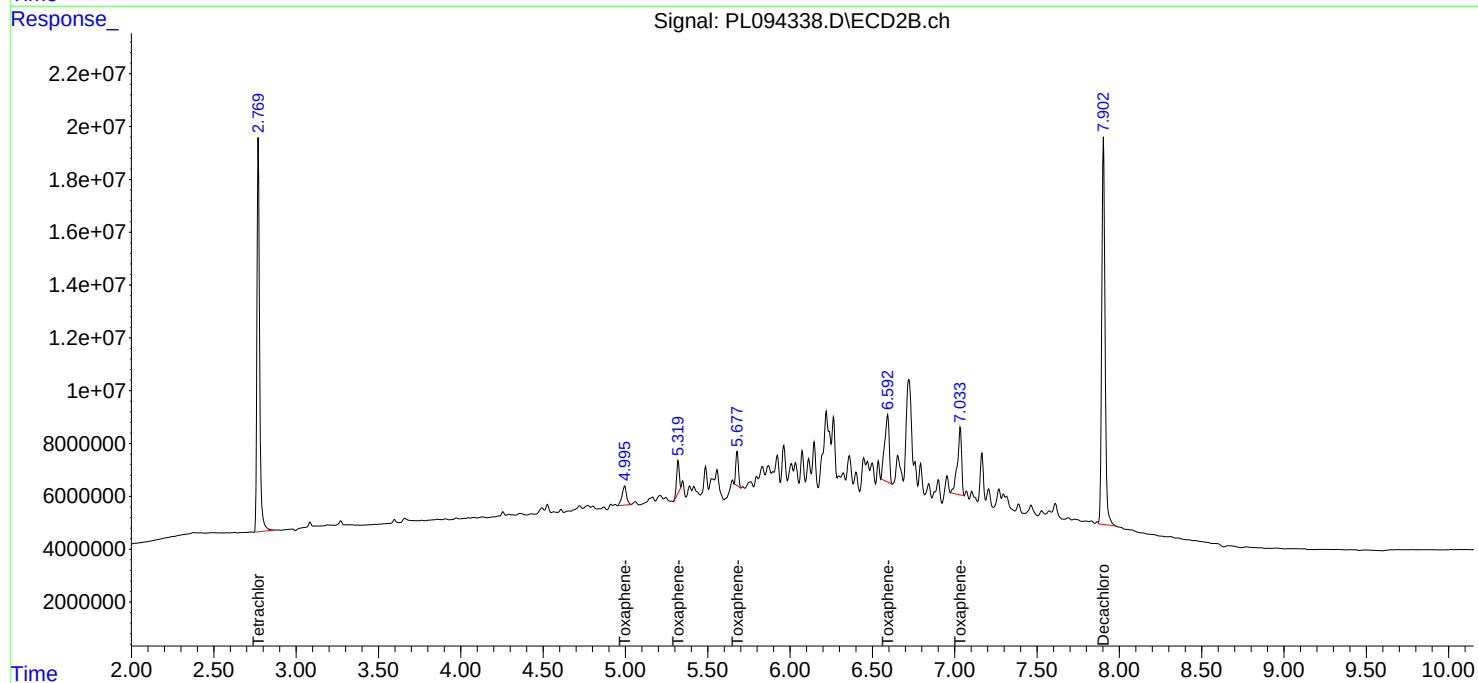
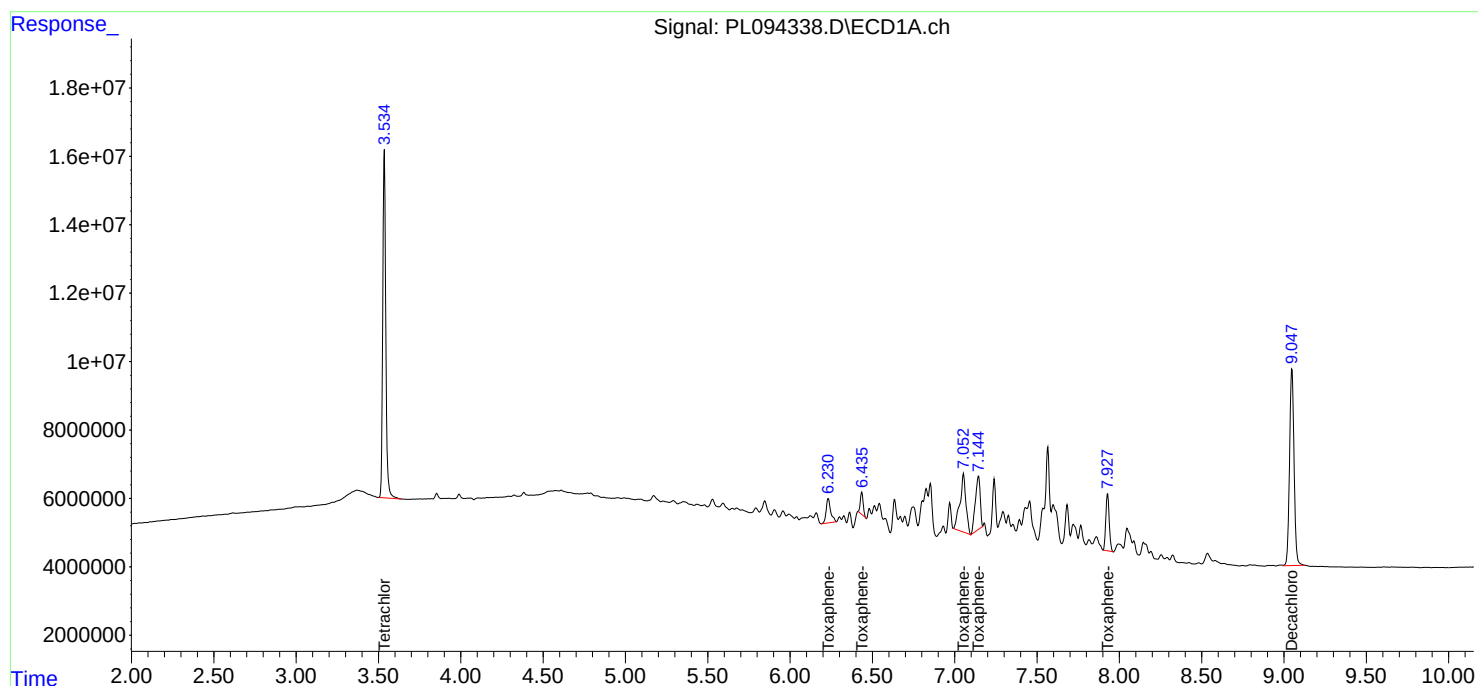
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022125\
Data File : PL094338.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2025 13:40
Operator : AR\AJ
Sample : PTOXICC500
Misc :
ALS Vial : 17 Sample Multiplier: 1

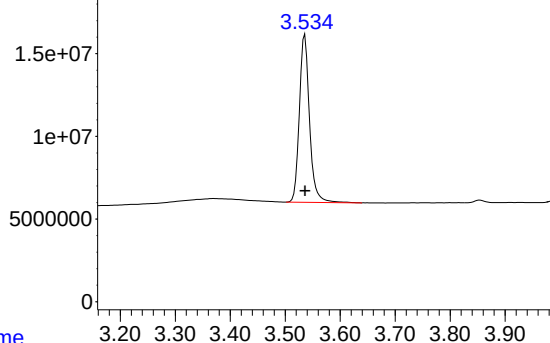
Instrument :
ECD_L
ClientSampleId :
PTOXICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 21 13:50:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\LTX022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 13:50:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : Rtx-CLPesticide 1 Signal #2 Phase: Rtx-CLPesticide 1
Signal #1 Info : 30M x 0.32mm x0.3 Signal #2 Info : 30M x 0.32mm x 0.25µm



Response_ Signal: PL094338.D\ECD1A.ch

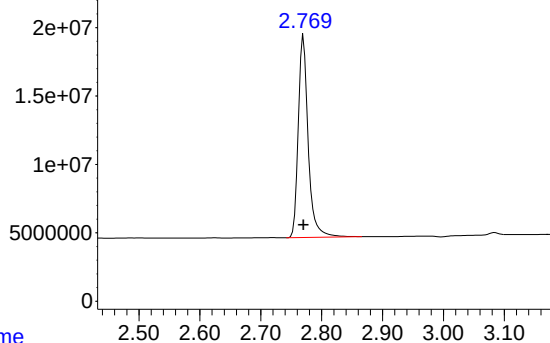


#1 Tetrachloro-m-xylene

R.T.: 3.536 min
Delta R.T.: 0.000 min
Response: 129450675
Conc: 50.00 ng/ml

Instrument :
ECD_L
ClientSampleId :
PTOXICC500

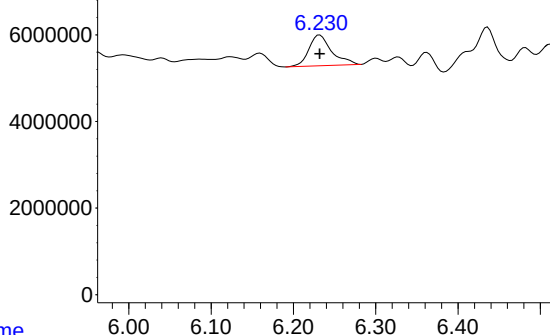
Time Response_ Signal: PL094338.D\ECD2B.ch



#1 Tetrachloro-m-xylene

R.T.: 2.770 min
Delta R.T.: 0.000 min
Response: 167185274
Conc: 50.00 ng/ml

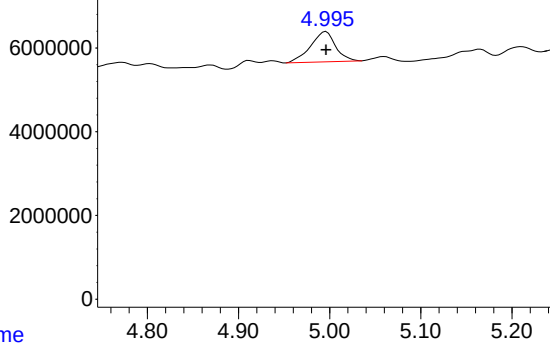
Time Response_ Signal: PL094338.D\ECD1A.ch



#2 Toxaphene-1

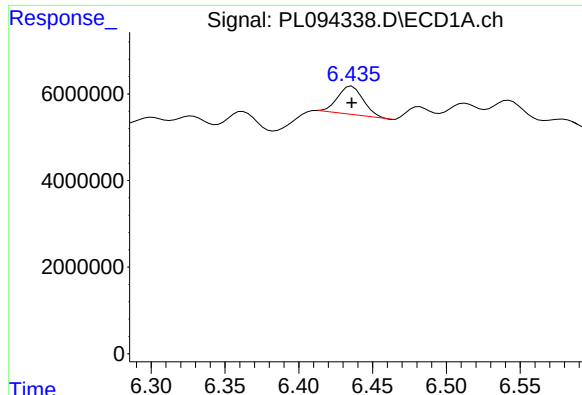
R.T.: 6.232 min
Delta R.T.: 0.000 min
Response: 13751314
Conc: 500.00 ng/ml

Time Response_ Signal: PL094338.D\ECD2B.ch



#2 Toxaphene-1

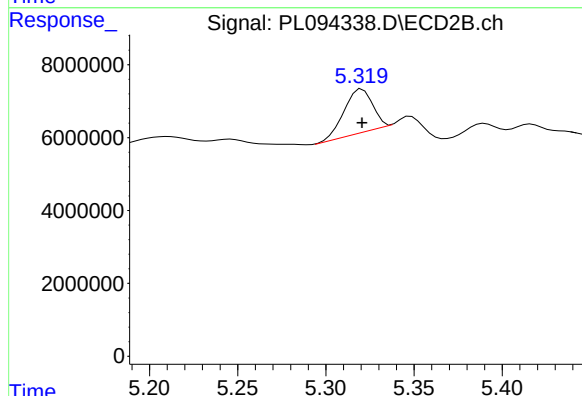
R.T.: 4.996 min
Delta R.T.: 0.000 min
Response: 13759846
Conc: 500.00 ng/ml



#3 Toxaphene-2

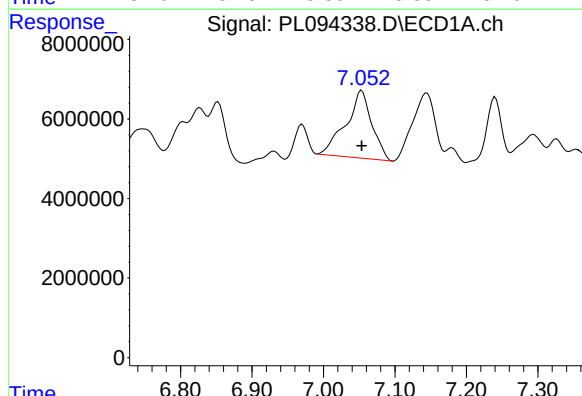
R.T.: 6.436 min
Delta R.T.: 0.000 min
Response: 7877776
Conc: 500.00 ng/ml

Instrument :
ECD_L
ClientSampleId :
PTOXICC500



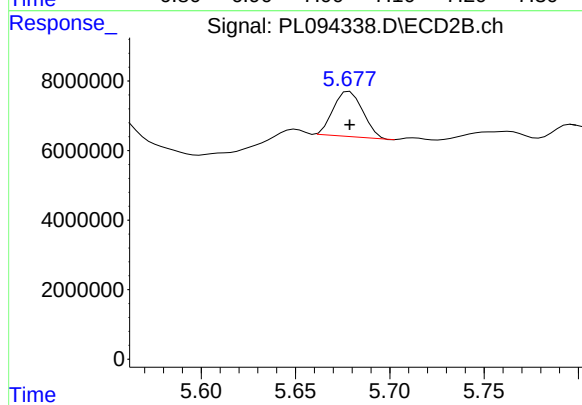
#3 Toxaphene-2

R.T.: 5.321 min
Delta R.T.: 0.000 min
Response: 13319380
Conc: 500.00 ng/ml



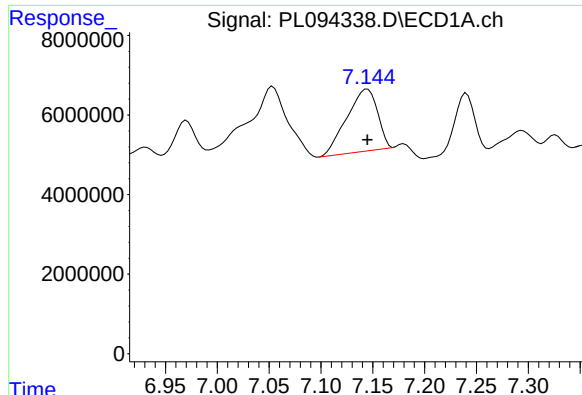
#4 Toxaphene-3

R.T.: 7.054 min
Delta R.T.: 0.000 min
Response: 42845805
Conc: 500.00 ng/ml



#4 Toxaphene-3

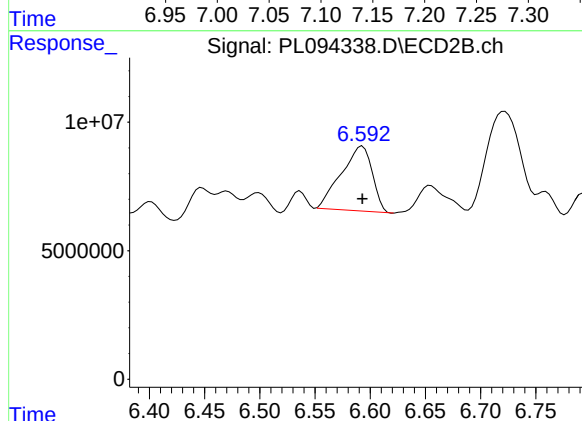
R.T.: 5.679 min
Delta R.T.: 0.000 min
Response: 14148921
Conc: 500.00 ng/ml



#5 Toxaphene-4

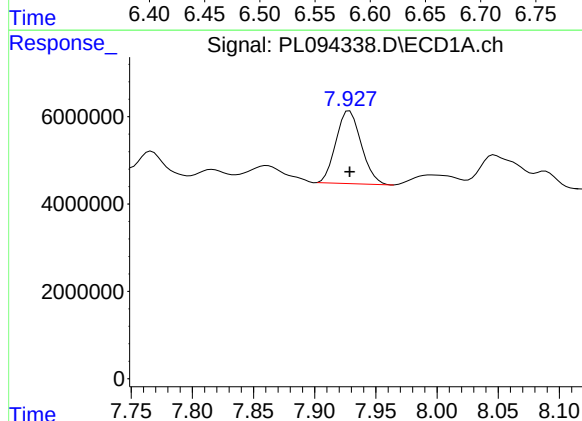
R.T.: 7.145 min
Delta R.T.: 0.000 min
Response: 32072265
Conc: 500.00 ng/ml

Instrument :
ECD_L
ClientSampleId :
PTOXICC500



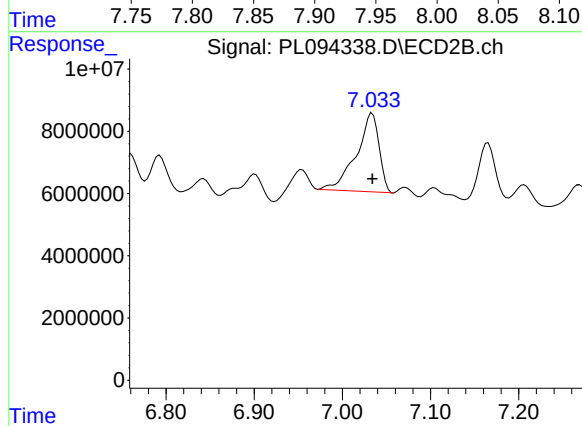
#5 Toxaphene-4

R.T.: 6.593 min
Delta R.T.: 0.000 min
Response: 49236853
Conc: 500.00 ng/ml



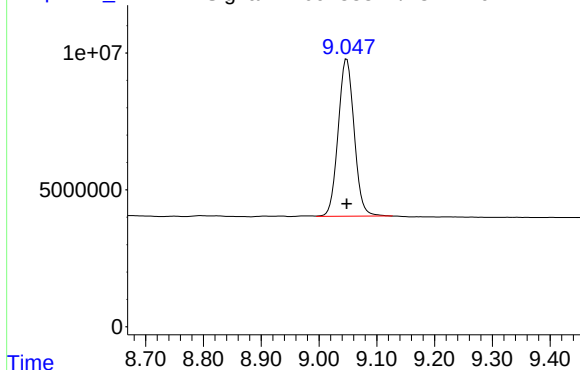
#6 Toxaphene-5

R.T.: 7.929 min
Delta R.T.: 0.000 min
Response: 24016646
Conc: 500.00 ng/ml



#6 Toxaphene-5

R.T.: 7.034 min
Delta R.T.: 0.000 min
Response: 45355859
Conc: 500.00 ng/ml



R.T.: 9.048 min
Delta R.T.: 0.000 min
Response: 109655185
Conc: 50.00 ng/ml

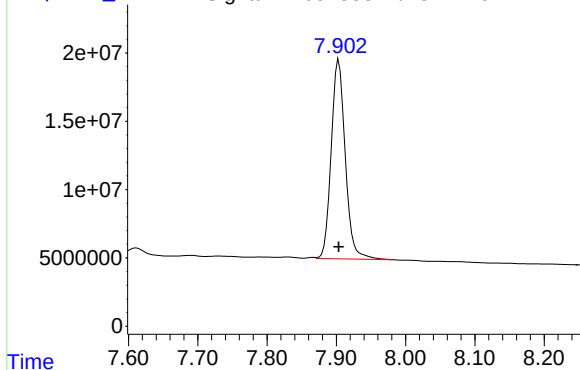
Instrument :
ECD_L
ClientSampleId :
PTOXICC500

Time

Response_

Signal: PL094338.D\ECD2B.ch

#7 Decachlorobiphenyl



R.T.: 7.904 min
Delta R.T.: 0.000 min
Response: 205205260
Conc: 50.00 ng/ml

Time

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022125\
 Data File : PL094341.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Feb 2025 14:21
 Operator : AR\AJ
 Sample : PSTDICV050
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 ICVPL022125

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 21 14:32:22 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
 Quant Title : GC Extractables
 QLast Update : Fri Feb 21 13:20:18 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 x0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
1)	SA Tetrachlo...	3.535	2.770	125.3E6	160.2E6	49.332	50.198
28)	SA Decachlor...	9.048	7.903	104.4E6	192.1E6	49.067	49.959
Target Compounds							
2)	A alpha-BHC	3.991	3.272	182.8E6	245.9E6	48.332	50.024
3)	MA gamma-BHC...	4.324	3.602	177.5E6	236.5E6	48.049	50.204
4)	MA Heptachlor	4.912	3.940	162.1E6	234.3E6	47.801	49.644
5)	MB Aldrin	5.253	4.219	163.7E6	230.4E6	47.704	49.870
6)	B beta-BHC	4.522	3.902	76902959	97477097	48.158	49.010
7)	B delta-BHC	4.769	4.131	168.5E6	236.5E6	47.620	49.943
8)	B Heptachlo...	5.679	4.722	145.4E6	211.6E6	48.264	49.726
9)	A Endosulfan I	6.065	5.091	130.9E6	197.8E6	47.632	49.622
10)	B gamma-Chl...	5.935	4.971	139.8E6	214.3E6	47.613	49.397
11)	B alpha-Chl...	6.014	5.035	138.3E6	212.5E6	47.722	49.224
12)	B 4,4'-DDE	6.188	5.224	127.4E6	208.9E6	48.794	49.735
13)	MA Dieldrin	6.340	5.355	136.9E6	218.4E6	48.039	49.843
14)	MA Endrin	6.569	5.631	117.5E6	179.7E6	46.047	52.790
15)	B Endosulfa...	6.789	5.925	118.8E6	188.2E6	47.210	50.319
16)	A 4,4'-DDD	6.706	5.778	94271390	163.0E6	50.964	51.166
17)	MA 4,4'-DDT	7.019	6.028	101.7E6	177.7E6	48.408	49.956
18)	B Endrin al...	6.920	6.105	94484564	156.0E6	48.533	49.346
19)	B Endosulfa...	7.154	6.328	108.2E6	183.2E6	47.813	49.608
20)	A Methoxychlor	7.495	6.603	54707974	97368906	49.240	49.907
21)	B Endrin ke...	7.639	6.832	122.7E6	217.0E6	48.927	50.847
22)	Mirex	8.111	7.011	99634258	175.8E6	48.289	50.404

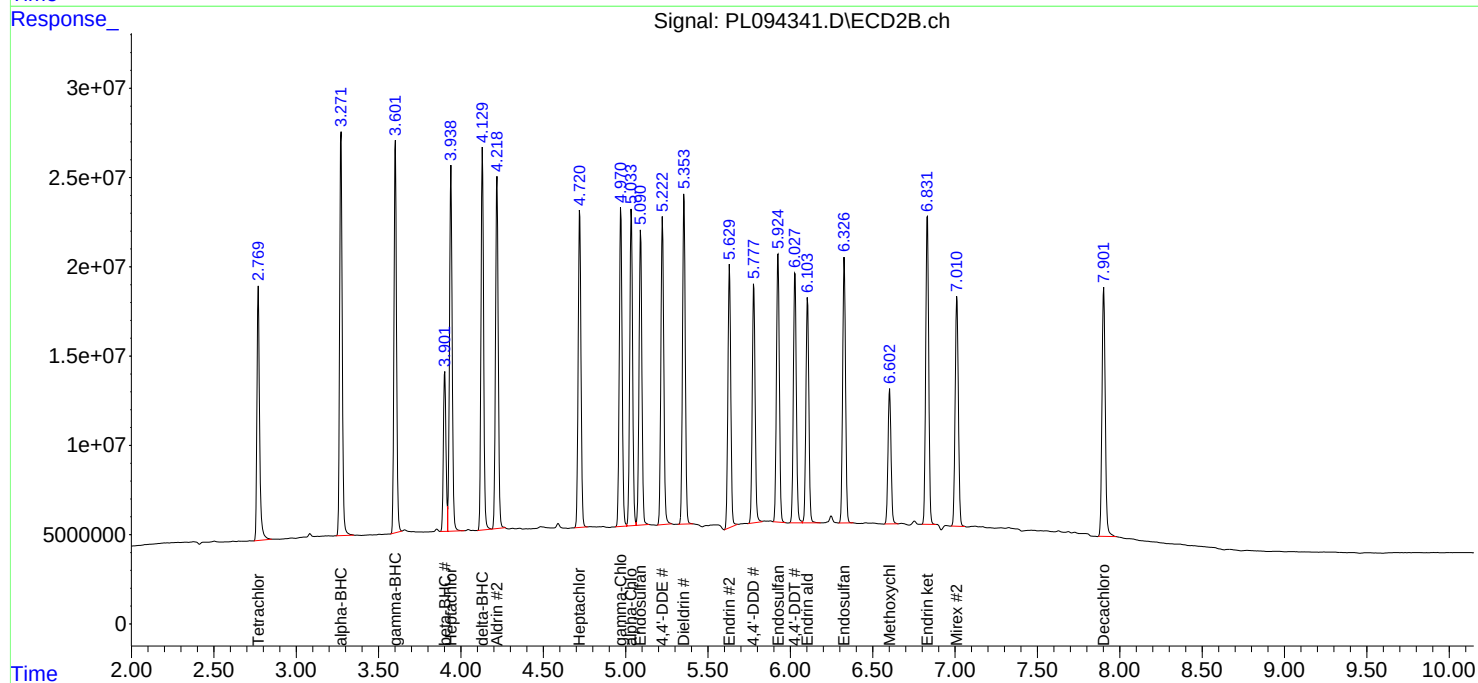
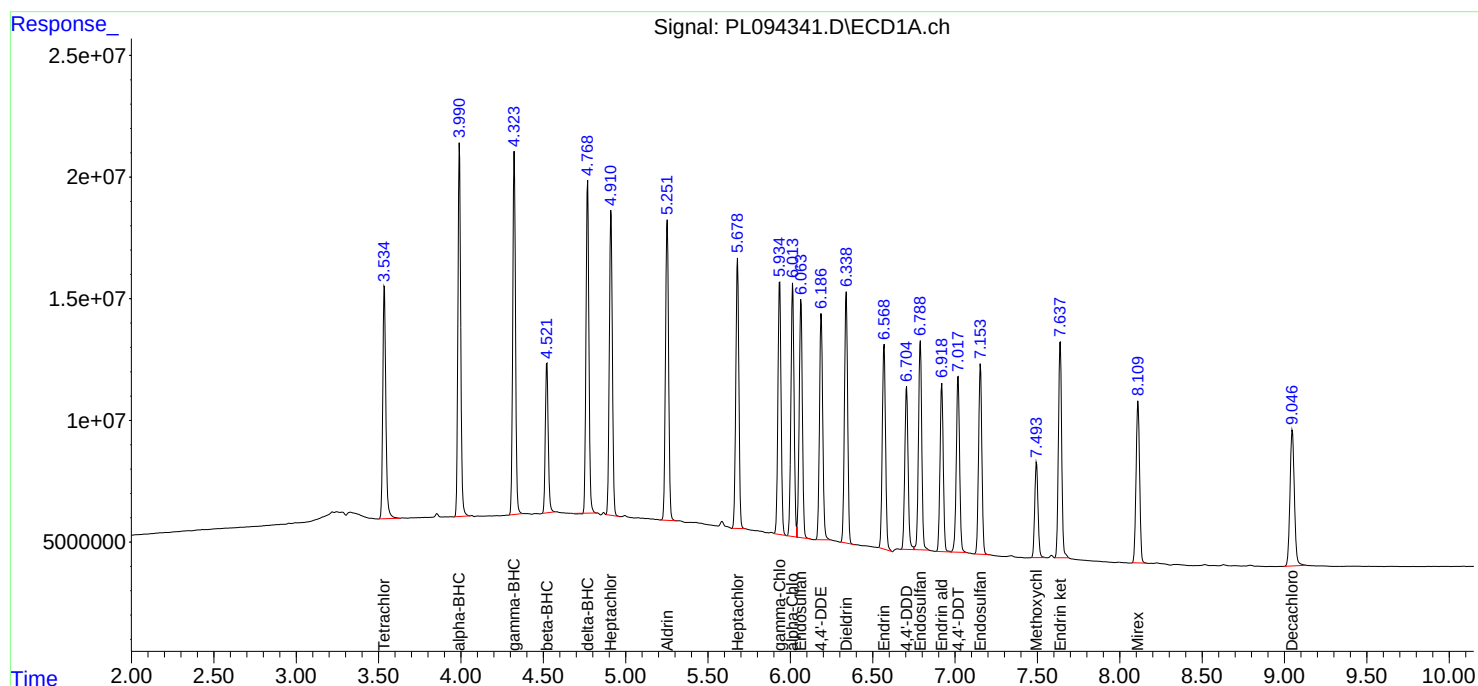
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

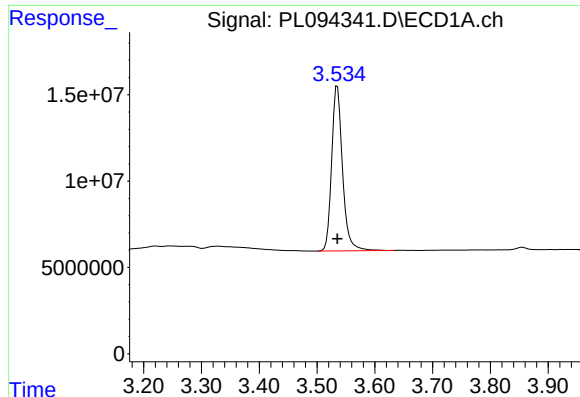
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022125\
Data File : PL094341.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2025 14:21
Operator : AR\AJ
Sample : PSTDICV050
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
ICVPL022125

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 21 14:32:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 13:20:18 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 x0.25µm

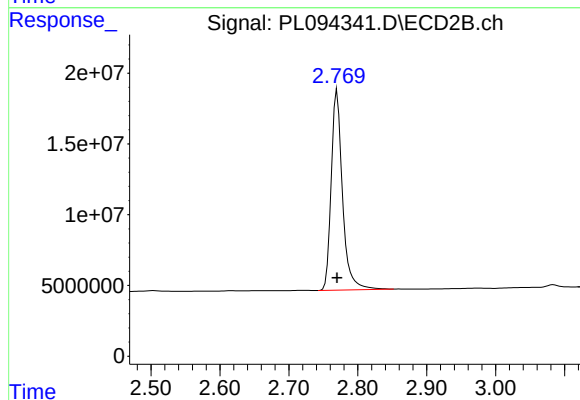




#1 Tetrachloro-m-xylene

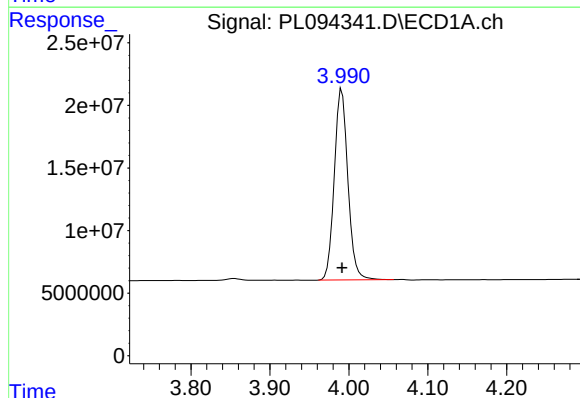
R.T.: 3.535 min
Delta R.T.: 0.000 min
Response: 125259151
Conc: 49.33 ng/ml

Instrument :
ECD_L
ClientSampleId :
ICVPL022125



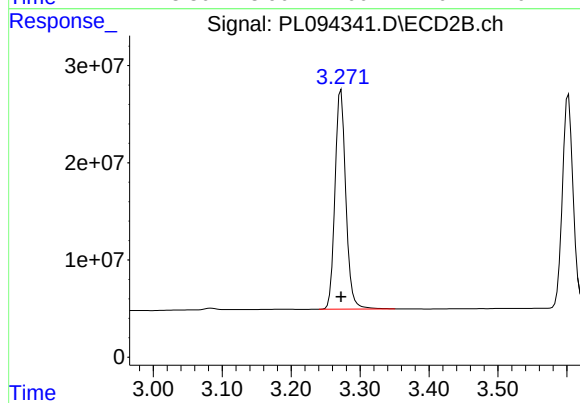
#1 Tetrachloro-m-xylene

R.T.: 2.770 min
Delta R.T.: 0.000 min
Response: 160190802
Conc: 50.20 ng/ml



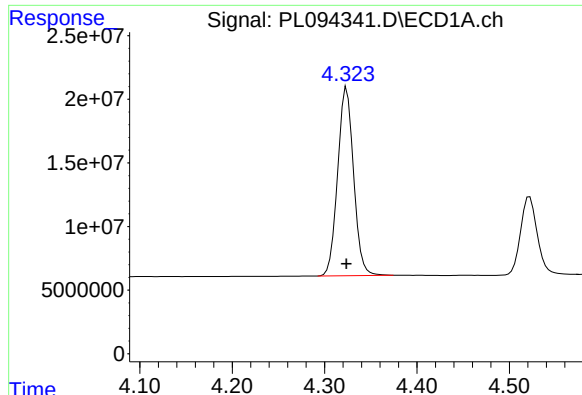
#2 alpha-BHC

R.T.: 3.991 min
Delta R.T.: 0.000 min
Response: 182824184
Conc: 48.33 ng/ml



#2 alpha-BHC

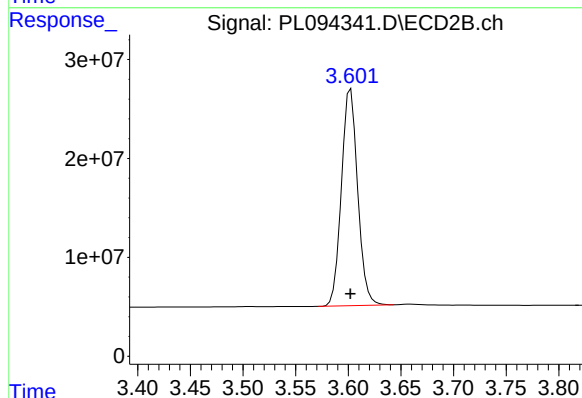
R.T.: 3.272 min
Delta R.T.: 0.000 min
Response: 245859292
Conc: 50.02 ng/ml



#3 gamma-BHC (Lindane)

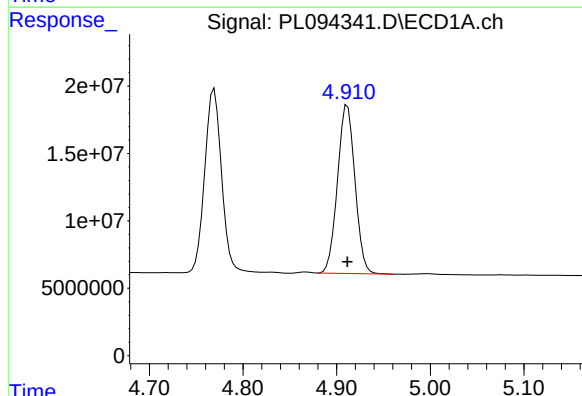
R.T.: 4.324 min
Delta R.T.: 0.000 min
Response: 177529156
Conc: 48.05 ng/ml

Instrument :
ECD_L
ClientSampleId :
ICVPL022125



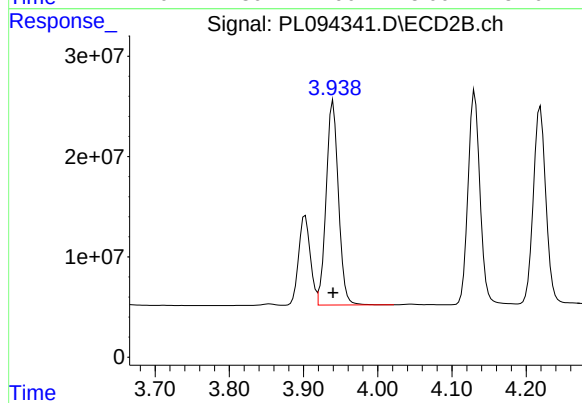
#3 gamma-BHC (Lindane)

R.T.: 3.602 min
Delta R.T.: 0.000 min
Response: 236458705
Conc: 50.20 ng/ml



#4 Heptachlor

R.T.: 4.912 min
Delta R.T.: 0.000 min
Response: 162063649
Conc: 47.80 ng/ml



#4 Heptachlor

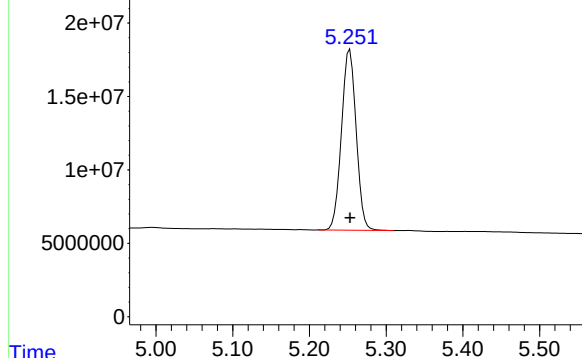
R.T.: 3.940 min
Delta R.T.: 0.000 min
Response: 234334969
Conc: 49.64 ng/ml

Response_ Signal: PL094341.D\ECD1A.ch

#5 Aldrin

R.T.: 5.253 min
Delta R.T.: 0.000 min
Response: 163709656
Conc: 47.70 ng/ml

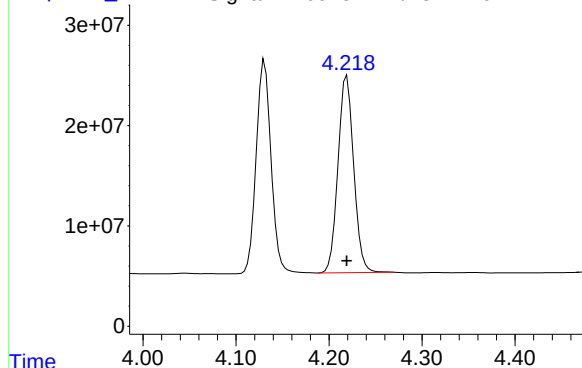
Instrument :
ECD_L
ClientSampleId :
ICVPL022125



Time Response_ Signal: PL094341.D\ECD2B.ch

#5 Aldrin

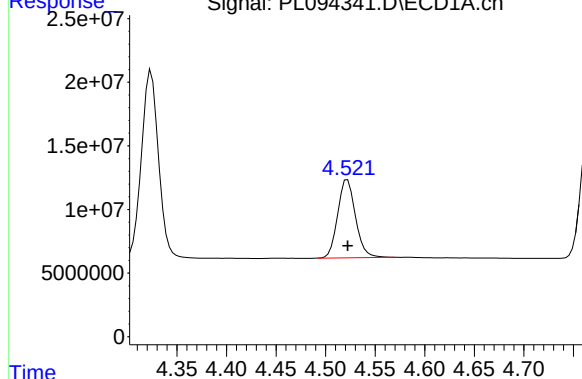
R.T.: 4.219 min
Delta R.T.: 0.000 min
Response: 230417699
Conc: 49.87 ng/ml



Time Response_ Signal: PL094341.D\ECD1A.ch

#6 beta-BHC

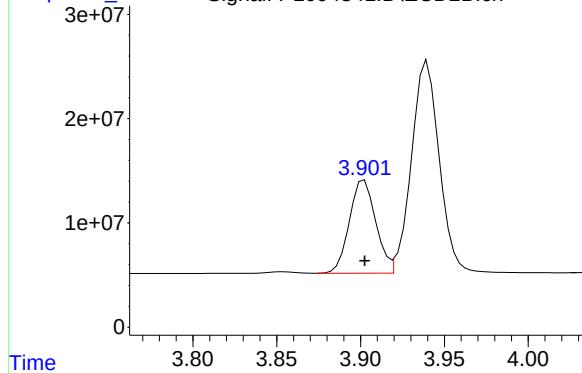
R.T.: 4.522 min
Delta R.T.: 0.000 min
Response: 76902959
Conc: 48.16 ng/ml

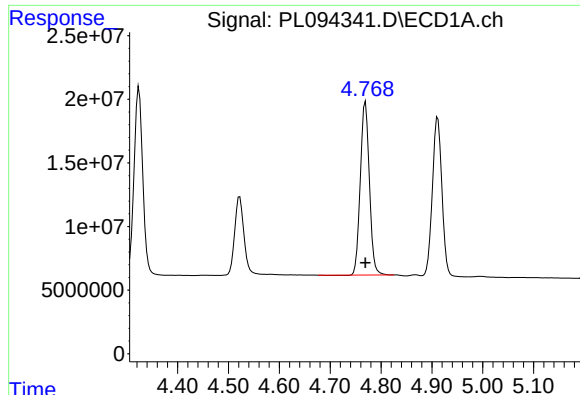


Time Response_ Signal: PL094341.D\ECD2B.ch

#6 beta-BHC

R.T.: 3.902 min
Delta R.T.: 0.000 min
Response: 97477097
Conc: 49.01 ng/ml

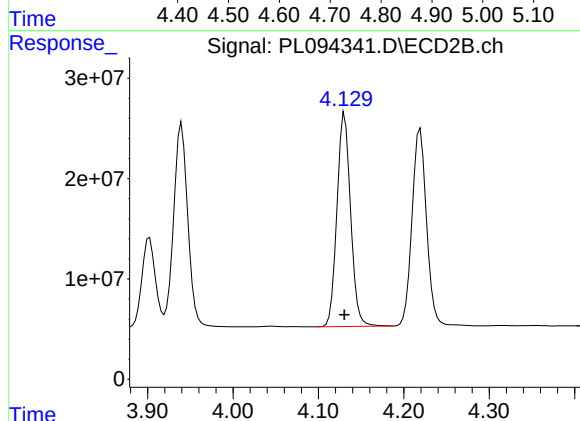




#7 delta-BHC

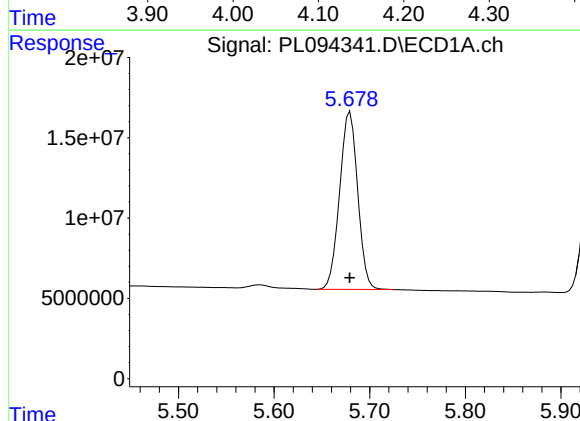
R.T.: 4.769 min
Delta R.T.: 0.000 min
Response: 168493334
Conc: 47.62 ng/ml

Instrument :
ECD_L
ClientSampleId :
ICVPL022125



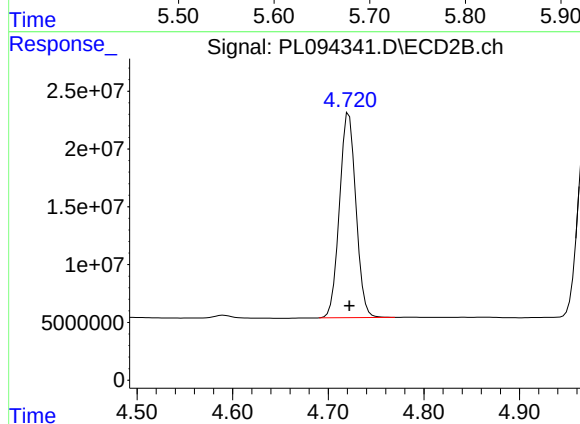
#7 delta-BHC

R.T.: 4.131 min
Delta R.T.: 0.000 min
Response: 236517762
Conc: 49.94 ng/ml



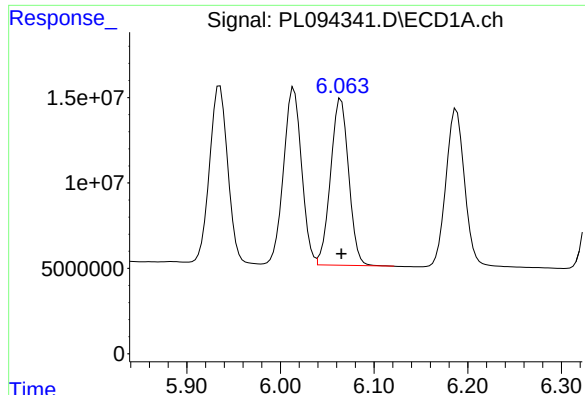
#8 Heptachlor epoxide

R.T.: 5.679 min
Delta R.T.: 0.000 min
Response: 145437997
Conc: 48.26 ng/ml



#8 Heptachlor epoxide

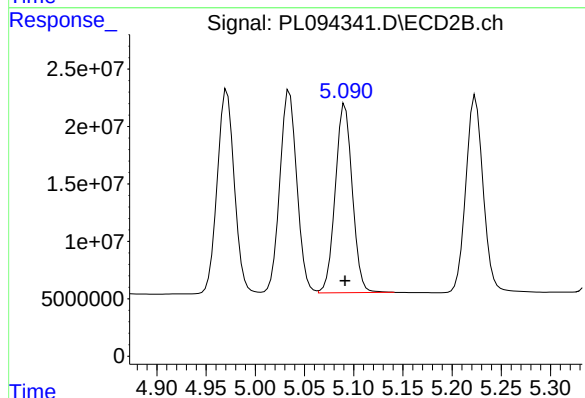
R.T.: 4.722 min
Delta R.T.: 0.000 min
Response: 211603492
Conc: 49.73 ng/ml



#9 Endosulfan I

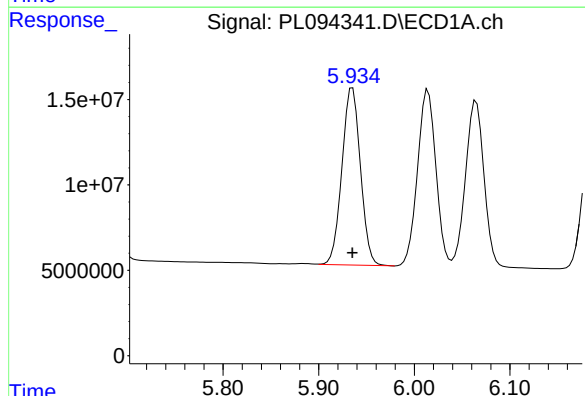
R.T.: 6.065 min
Delta R.T.: 0.000 min
Response: 130921396
Conc: 47.63 ng/ml

Instrument :
ECD_L
ClientSampleId :
ICVPL022125



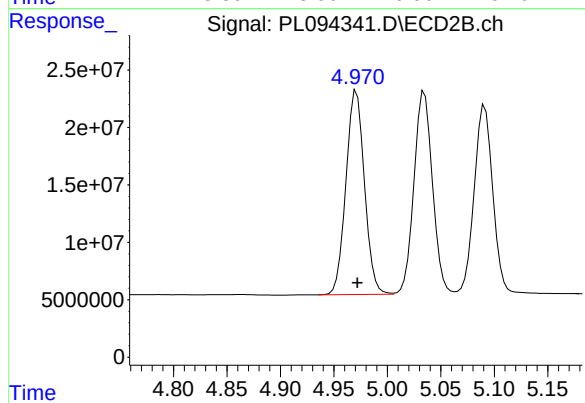
#9 Endosulfan I

R.T.: 5.091 min
Delta R.T.: 0.000 min
Response: 197820599
Conc: 49.62 ng/ml



#10 gamma-Chlordane

R.T.: 5.935 min
Delta R.T.: 0.000 min
Response: 139797861
Conc: 47.61 ng/ml



#10 gamma-Chlordane

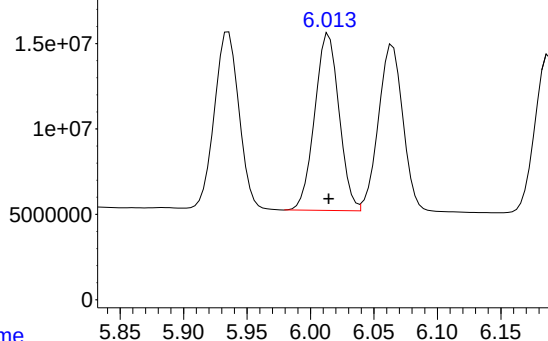
R.T.: 4.971 min
Delta R.T.: 0.000 min
Response: 214323184
Conc: 49.40 ng/ml

Response_

Signal: PL094341.D\ECD1A.ch

#11 alpha-Chlordane

ICAL Form



R.T.: 6.014 min
Delta R.T.: 0.000 min
Response: 138255355
Conc: 47.72 ng/ml

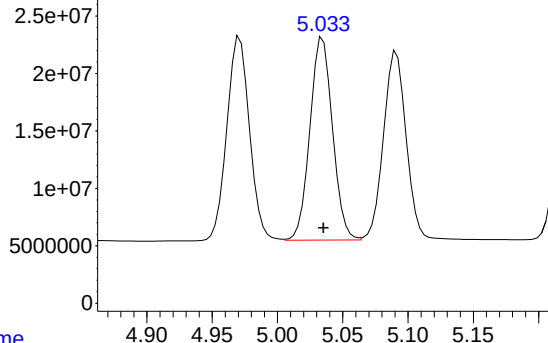
Instrument :
ECD_L
ClientSampleId :
ICVPL022125

Time

Response_

Signal: PL094341.D\ECD2B.ch

#11 alpha-Chlordane



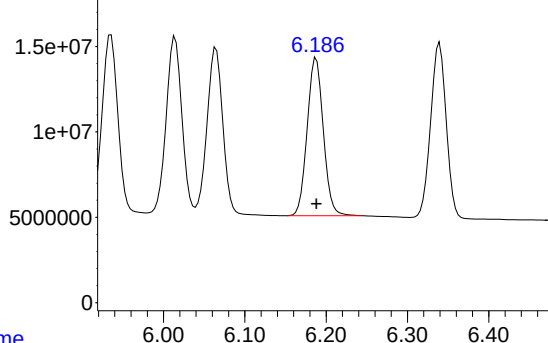
R.T.: 5.035 min
Delta R.T.: 0.000 min
Response: 212530550
Conc: 49.22 ng/ml

Time

Response_

Signal: PL094341.D\ECD1A.ch

#12 4,4'-DDE



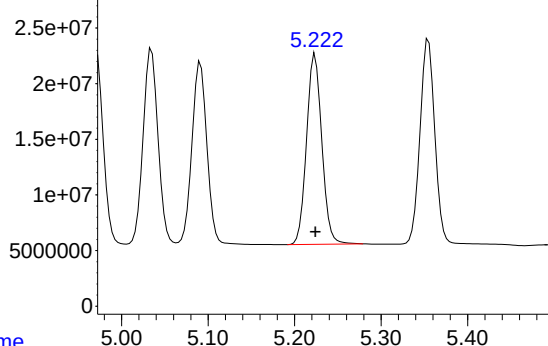
R.T.: 6.188 min
Delta R.T.: 0.000 min
Response: 127436523
Conc: 48.79 ng/ml

Time

Response_

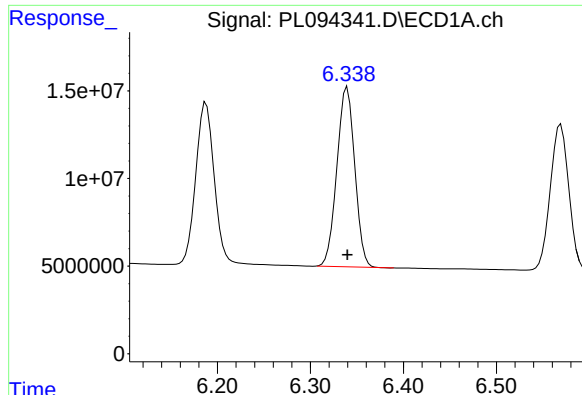
Signal: PL094341.D\ECD2B.ch

#12 4,4'-DDE



R.T.: 5.224 min
Delta R.T.: 0.000 min
Response: 208887717
Conc: 49.74 ng/ml

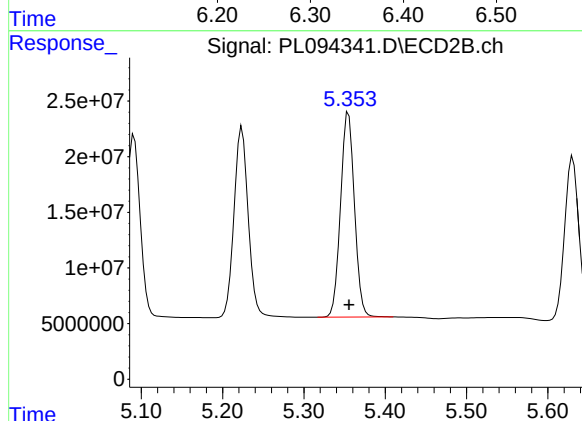
Time



#13 Dieldrin

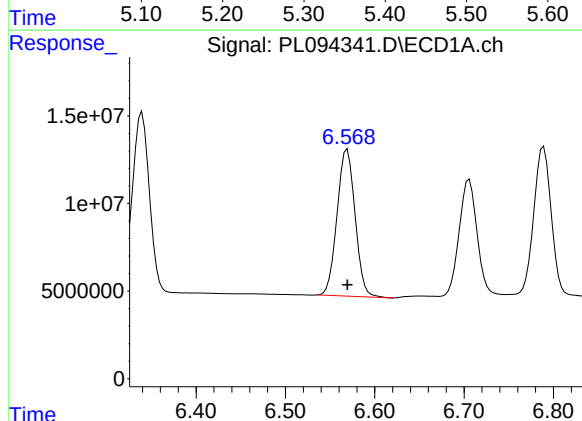
R.T.: 6.340 min
Delta R.T.: 0.000 min
Response: 136865157
Conc: 48.04 ng/ml

Instrument :
ECD_L
ClientSampleId :
ICVPL022125



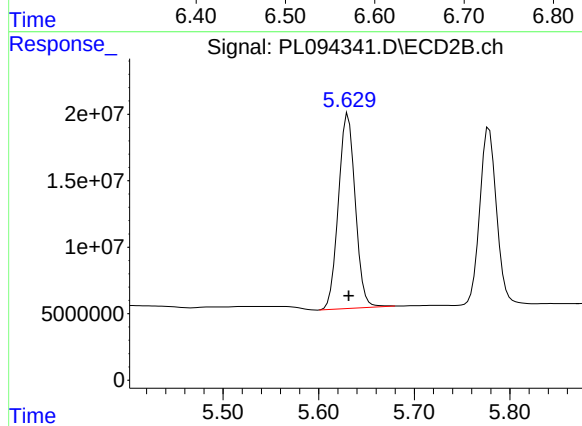
#13 Dieldrin

R.T.: 5.355 min
Delta R.T.: 0.000 min
Response: 218401778
Conc: 49.84 ng/ml



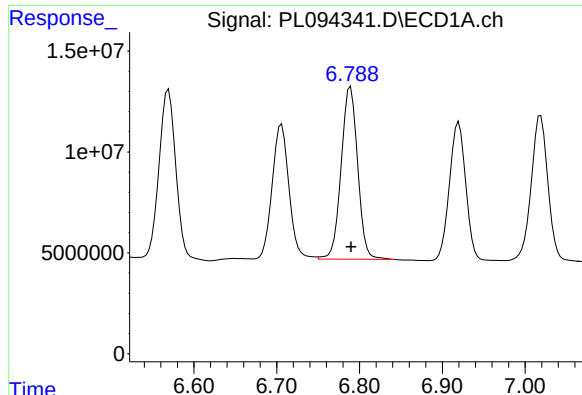
#14 Endrin

R.T.: 6.569 min
Delta R.T.: 0.000 min
Response: 117523885
Conc: 46.05 ng/ml



#14 Endrin

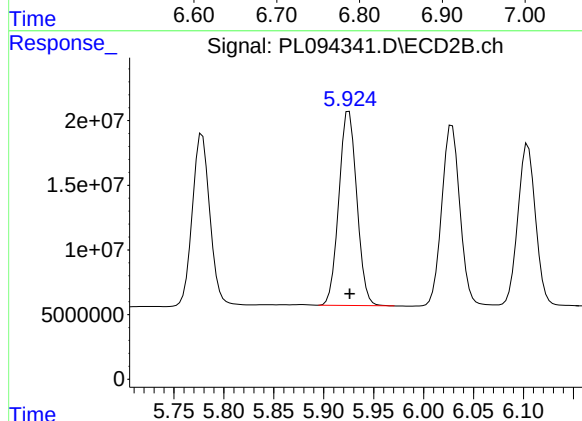
R.T.: 5.631 min
Delta R.T.: 0.000 min
Response: 179735235
Conc: 52.79 ng/ml



#15 Endosulfan II

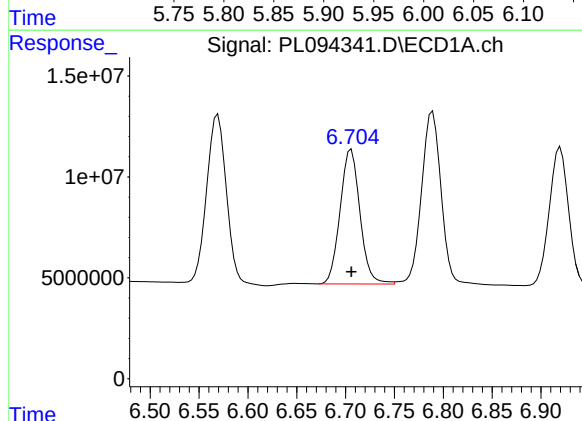
R.T.: 6.789 min
Delta R.T.: 0.000 min
Response: 118839359
Conc: 47.21 ng/ml

Instrument :
ECD_L
ClientSampleId :
ICVPL022125



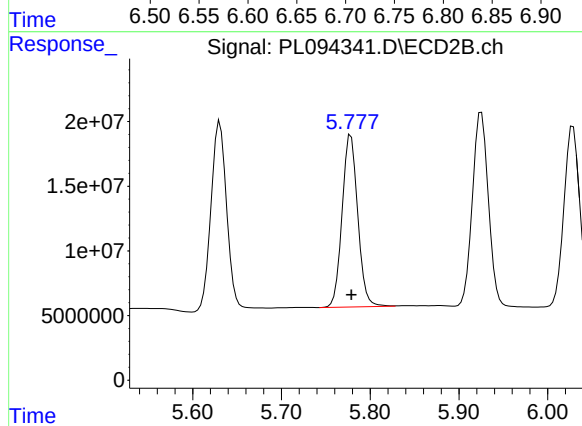
#15 Endosulfan II

R.T.: 5.925 min
Delta R.T.: 0.000 min
Response: 188167759
Conc: 50.32 ng/ml



#16 4,4'-DDD

R.T.: 6.706 min
Delta R.T.: 0.000 min
Response: 94271390
Conc: 50.96 ng/ml



#16 4,4'-DDD

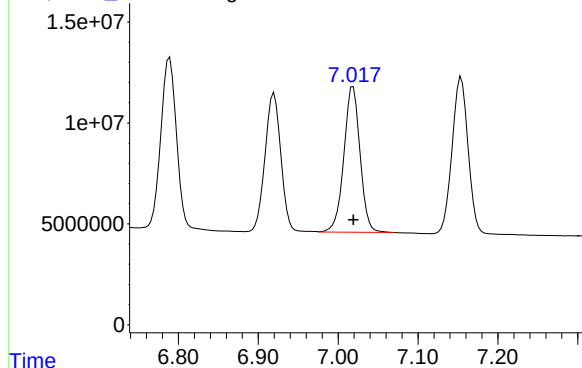
R.T.: 5.778 min
Delta R.T.: 0.000 min
Response: 162979625
Conc: 51.17 ng/ml

Response_ Signal: PL094341.D\ECD1A.ch

#17 4,4'-DDT

R.T.: 7.019 min
Delta R.T.: 0.000 min
Response: 101657334
Conc: 48.41 ng/ml

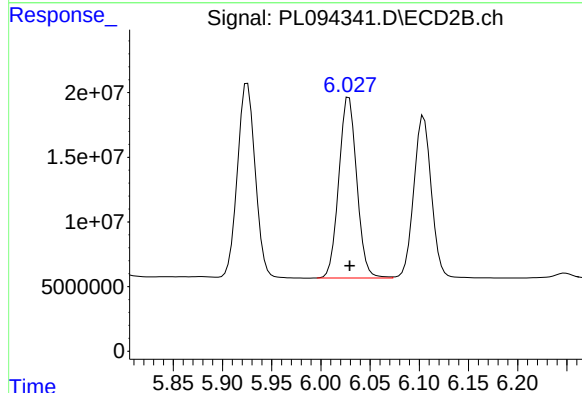
Instrument :
ECD_L
ClientSampleId :
ICVPL022125



Time Response_ Signal: PL094341.D\ECD2B.ch

#17 4,4'-DDT

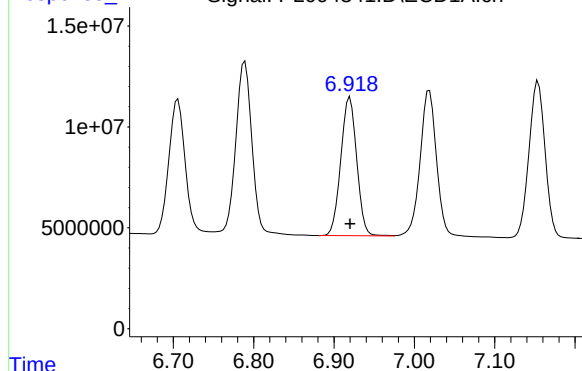
R.T.: 6.028 min
Delta R.T.: 0.000 min
Response: 177693939
Conc: 49.96 ng/ml



Time Response_ Signal: PL094341.D\ECD1A.ch

#18 Endrin aldehyde

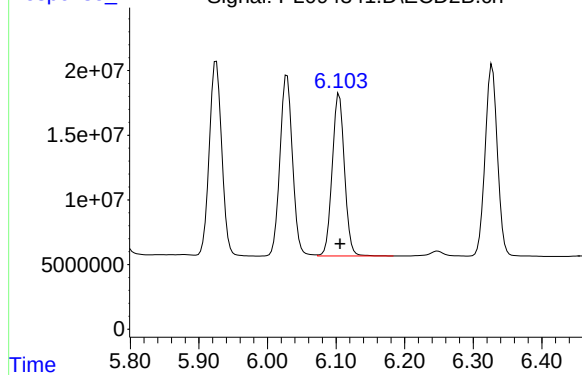
R.T.: 6.920 min
Delta R.T.: 0.000 min
Response: 94484564
Conc: 48.53 ng/ml



Time Response_ Signal: PL094341.D\ECD2B.ch

#18 Endrin aldehyde

R.T.: 6.105 min
Delta R.T.: -0.001 min
Response: 155954689
Conc: 49.35 ng/ml

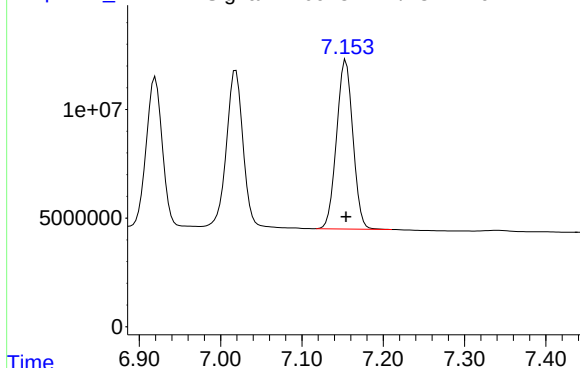


Response_

Signal: PL094341.D\ECD1A.ch

#19 Endosulfan Sulfate

ICAL Form



R.T.: 7.154 min
Delta R.T.: 0.000 min
Response: 108240875
Conc: 47.81 ng/ml

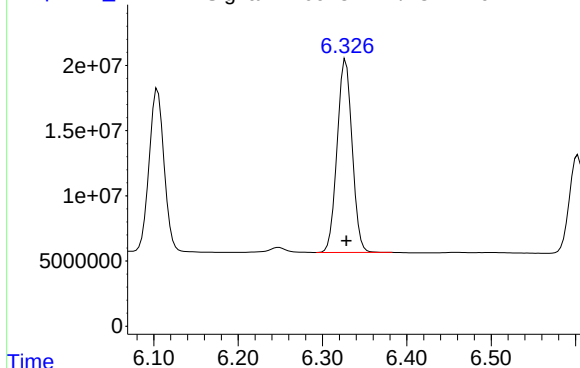
Instrument :
ECD_L
ClientSampleId :
ICVPL022125

Time

Response_

Signal: PL094341.D\ECD2B.ch

#19 Endosulfan Sulfate



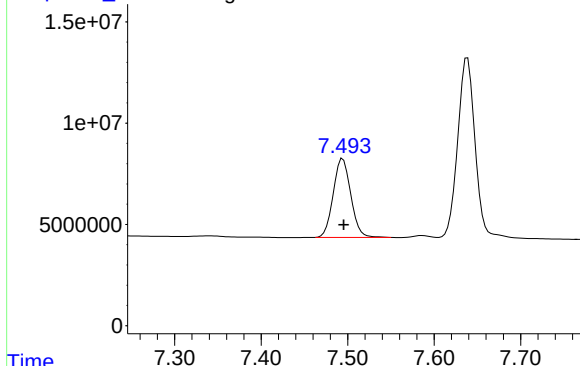
R.T.: 6.328 min
Delta R.T.: 0.000 min
Response: 183233639
Conc: 49.61 ng/ml

Time

Response_

Signal: PL094341.D\ECD1A.ch

#20 Methoxychlor



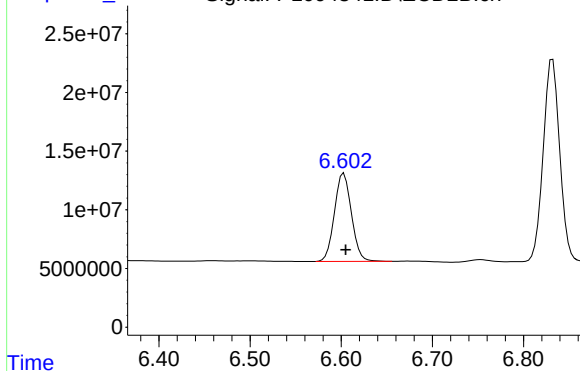
R.T.: 7.495 min
Delta R.T.: 0.000 min
Response: 54707974
Conc: 49.24 ng/ml

Time

Response_

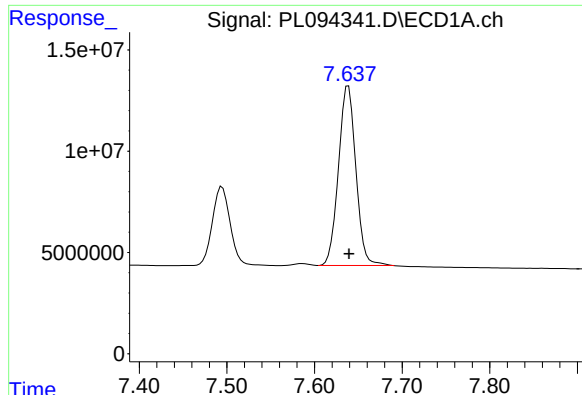
Signal: PL094341.D\ECD2B.ch

#20 Methoxychlor



R.T.: 6.603 min
Delta R.T.: -0.002 min
Response: 97368906
Conc: 49.91 ng/ml

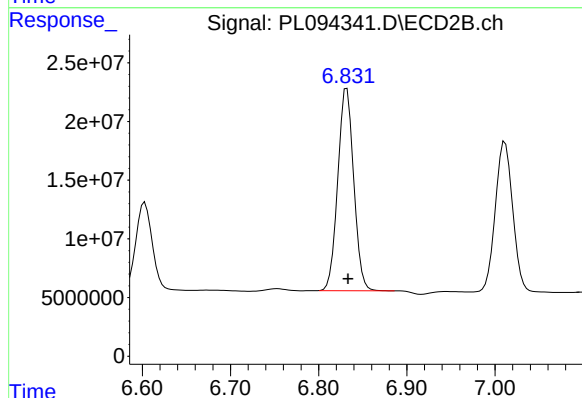
Time



#21 Endrin ketone

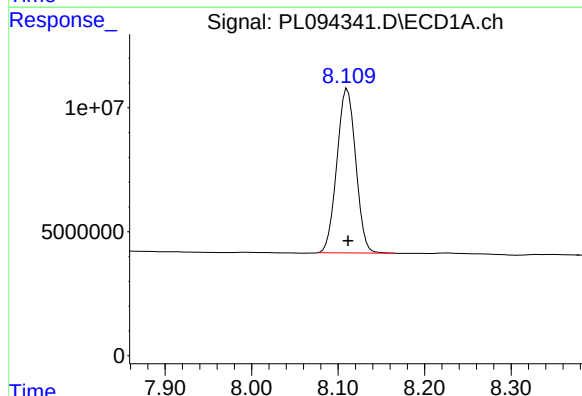
R.T.: 7.639 min
Delta R.T.: 0.000 min
Response: 122655326
Conc: 48.93 ng/ml

Instrument :
ECD_L
ClientSampleId :
ICVPL022125



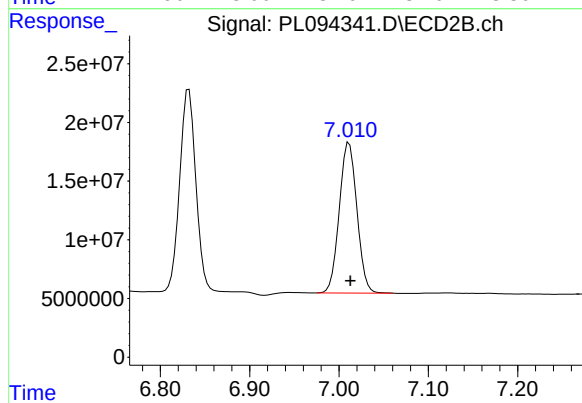
#21 Endrin ketone

R.T.: 6.832 min
Delta R.T.: -0.001 min
Response: 216991145
Conc: 50.85 ng/ml



#22 Mirex

R.T.: 8.111 min
Delta R.T.: 0.000 min
Response: 99634258
Conc: 48.29 ng/ml



#22 Mirex

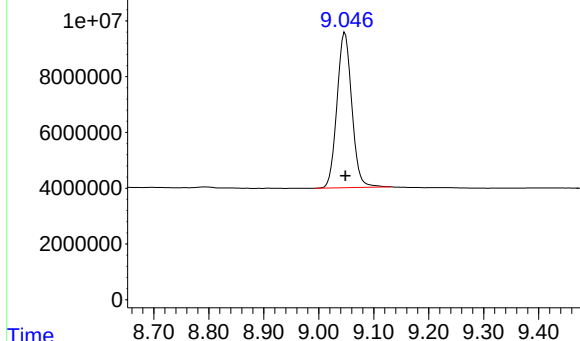
R.T.: 7.011 min
Delta R.T.: -0.001 min
Response: 175760145
Conc: 50.40 ng/ml

Response_

Signal: PL094341.D\ECD1A.ch

#28 Decachlorobiphenyl

ICAL Form



R.T.: 9.048 min
Delta R.T.: -0.001 min
Response: 104379455
Conc: 49.07 ng/ml

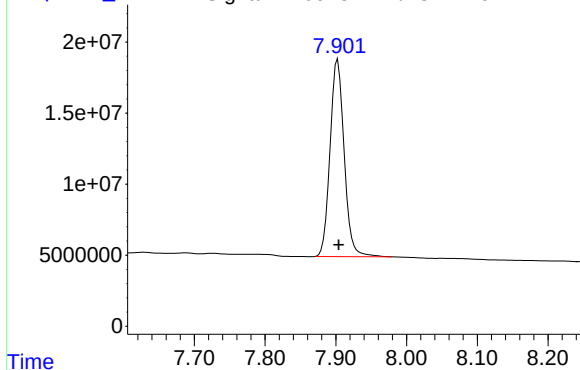
Instrument :
ECD_L
ClientSampleId :
ICVPL022125

Time

Response_

Signal: PL094341.D\ECD2B.ch

#28 Decachlorobiphenyl



R.T.: 7.903 min
Delta R.T.: -0.002 min
Response: 192124772
Conc: 49.96 ng/ml

Time



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

CALIBRATION VERIFICATION SUMMARY

Contract: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG NO.: Q1421

Continuing Calib Date: 02/27/2025 Initial Calibration Date(s): 02/21/2025 02/21/2025

Continuing Calib Time: 19:46 Initial Calibration Time(s): 10:56 11:51

GC Column: ZB-MR1 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	9.05	9.05	8.95	9.15	0.00
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
alpha-BHC	3.99	3.99	3.89	4.09	0.00
beta-BHC	4.52	4.52	4.42	4.62	0.00
delta-BHC	4.77	4.77	4.67	4.87	0.00
gamma-BHC (Lindane)	4.33	4.32	4.22	4.42	-0.01
Heptachlor	4.91	4.91	4.81	5.01	0.00
Aldrin	5.26	5.25	5.15	5.35	-0.01
Heptachlor epoxide	5.68	5.68	5.58	5.78	0.00
Endosulfan I	6.07	6.07	5.97	6.17	0.00
Dieldrin	6.34	6.34	6.24	6.44	0.00
4,4'-DDE	6.19	6.19	6.09	6.29	0.00
Endrin	6.57	6.57	6.47	6.67	0.00
Endosulfan II	6.79	6.79	6.69	6.89	0.00
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
Endosulfan sulfate	7.16	7.15	7.05	7.25	-0.01
4,4'-DDT	7.02	7.02	6.92	7.12	0.00
Methoxychlor	7.50	7.50	7.40	7.60	0.00
Endrin ketone	7.64	7.64	7.54	7.74	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.00
alpha-Chlordane	6.02	6.02	5.92	6.12	0.00
gamma-Chlordane	5.94	5.94	5.84	6.04	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG NO.: Q1421

Continuing Calib Date: 02/27/2025 Initial Calibration Date(s): 02/21/2025 02/21/2025

Continuing Calib Time: 19:46 Initial Calibration Time(s): 10:56 11:51

GC Column: ZB-MR2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	7.91	7.90	7.80	8.00	-0.01
Tetrachloro-m-xylene	2.77	2.77	2.67	2.87	0.00
alpha-BHC	3.27	3.27	3.17	3.37	0.00
beta-BHC	3.90	3.90	3.80	4.00	0.00
delta-BHC	4.13	4.13	4.03	4.23	0.00
gamma-BHC (Lindane)	3.60	3.60	3.50	3.70	0.00
Heptachlor	3.94	3.94	3.84	4.04	0.00
Aldrin	4.22	4.22	4.12	4.32	0.00
Heptachlor epoxide	4.72	4.72	4.62	4.82	0.00
Endosulfan I	5.09	5.09	4.99	5.19	0.00
Dieldrin	5.36	5.36	5.26	5.46	0.00
4,4'-DDE	5.23	5.22	5.12	5.32	-0.01
Endrin	5.63	5.63	5.53	5.73	0.00
Endosulfan II	5.93	5.93	5.83	6.03	0.00
4,4'-DDD	5.78	5.78	5.68	5.88	0.00
Endosulfan sulfate	6.33	6.33	6.23	6.43	0.00
4,4'-DDT	6.03	6.03	5.93	6.13	0.00
Methoxychlor	6.61	6.61	6.51	6.71	0.00
Endrin ketone	6.84	6.83	6.73	6.93	-0.01
Endrin aldehyde	6.11	6.11	6.01	6.21	0.00
alpha-Chlordane	5.04	5.04	4.94	5.14	0.00
gamma-Chlordane	4.97	4.97	4.87	5.07	0.00



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CALIBRATION VERIFICATION SUMMARY

Contract: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG NO.: Q1421

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 02/21/2025 02/21/2025

Client Sample No.: CCAL01 Date Analyzed: 02/27/2025

Lab Sample No.: PSTDCCC050 Data File : PL094434.D Time Analyzed: 19:46

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	6.709	6.606	6.806	59.350	50.000	18.7
4,4'-DDE	6.191	6.088	6.288	55.120	50.000	10.2
4,4'-DDT	7.023	6.919	7.119	51.960	50.000	3.9
Aldrin	5.255	5.153	5.353	53.470	50.000	6.9
alpha-BHC	3.993	3.891	4.091	54.900	50.000	9.8
alpha-Chlordane	6.017	5.915	6.115	52.680	50.000	5.4
beta-BHC	4.524	4.422	4.622	53.910	50.000	7.8
Decachlorobiphenyl	9.053	8.949	9.149	47.580	50.000	-4.8
delta-BHC	4.771	4.669	4.869	54.280	50.000	8.6
Dieldrin	6.343	6.240	6.440	52.410	50.000	4.8
Endosulfan I	6.068	5.965	6.165	52.060	50.000	4.1
Endosulfan II	6.793	6.690	6.890	49.750	50.000	-0.5
Endosulfan sulfate	7.157	7.054	7.254	50.320	50.000	0.6
Endrin	6.572	6.470	6.670	49.270	50.000	-1.5
Endrin aldehyde	6.923	6.820	7.020	52.030	50.000	4.1
Endrin ketone	7.643	7.539	7.739	50.600	50.000	1.2
gamma-BHC (Lindane)	4.326	4.224	4.424	54.150	50.000	8.3
gamma-Chlordane	5.938	5.835	6.035	52.240	50.000	4.5
Heptachlor	4.913	4.812	5.012	53.780	50.000	7.6
Heptachlor epoxide	5.682	5.579	5.779	53.170	50.000	6.3
Methoxychlor	7.498	7.396	7.596	51.770	50.000	3.5
Tetrachloro-m-xylene	3.536	3.435	3.635	55.370	50.000	10.7



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CALIBRATION VERIFICATION SUMMARY

Contract: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG NO.: Q1421

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 02/21/2025 02/21/2025

Client Sample No.: CCAL01 Date Analyzed: 02/27/2025

Lab Sample No.: PSTDCCC050 Data File : PL094434.D Time Analyzed: 19:46

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.781	5.679	5.879	58.670	50.000	17.3
4,4'-DDE	5.226	5.124	5.324	55.200	50.000	10.4
4,4'-DDT	6.031	5.929	6.129	53.370	50.000	6.7
Aldrin	4.220	4.119	4.319	55.020	50.000	10.0
alpha-BHC	3.273	3.172	3.372	56.170	50.000	12.3
alpha-Chlordane	5.037	4.935	5.135	53.600	50.000	7.2
beta-BHC	3.903	3.803	4.003	55.240	50.000	10.5
Decachlorobiphenyl	7.906	7.804	8.004	47.010	50.000	-6.0
delta-BHC	4.132	4.030	4.230	55.900	50.000	11.8
Dieldrin	5.357	5.256	5.456	54.130	50.000	8.3
Endosulfan I	5.093	4.991	5.191	53.460	50.000	6.9
Endosulfan II	5.928	5.826	6.026	54.330	50.000	8.7
Endosulfan sulfate	6.330	6.228	6.428	52.660	50.000	5.3
Endrin	5.633	5.531	5.731	59.150	50.000	18.3
Endrin aldehyde	6.107	6.006	6.206	52.870	50.000	5.7
Endrin ketone	6.835	6.733	6.933	53.460	50.000	6.9
gamma-BHC (Lindane)	3.603	3.502	3.702	56.050	50.000	12.1
gamma-Chlordane	4.973	4.872	5.072	53.910	50.000	7.8
Heptachlor	3.941	3.840	4.040	54.220	50.000	8.4
Heptachlor epoxide	4.723	4.622	4.822	54.370	50.000	8.7
Methoxychlor	6.606	6.505	6.705	52.780	50.000	5.6
Tetrachloro-m-xylene	2.771	2.670	2.870	56.550	50.000	13.1

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022725\
 Data File : PL094434.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Feb 2025 19:46
 Operator : AR\AJ
 Sample : PSTDCCC050
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PSTDCCC050

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 27 22:17:29 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
 Quant Title : GC Extractables
 QLast Update : Fri Feb 21 14:52:19 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 x0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.536	2.771	140.6E6	180.5E6	55.372	56.548
28) SA Decachlor...	9.053	7.906	101.2E6	180.8E6	47.577	47.013
Target Compounds						
2) A alpha-BHC	3.993	3.273	207.7E6	276.0E6	54.896	56.167
3) MA gamma-BHC...	4.326	3.603	200.1E6	264.0E6	54.147	56.054
4) MA Heptachlor	4.913	3.941	182.3E6	255.9E6	53.780	54.220
5) MB Aldrin	5.255	4.220	183.5E6	254.2E6	53.467	55.023
6) B beta-BHC	4.524	3.903	86082688	109.9E6	53.906	55.244
7) B delta-BHC	4.771	4.132	192.1E6	264.7E6	54.283	55.899
8) B Heptachlo...	5.682	4.723	160.2E6	231.4E6	53.169	54.367
9) A Endosulfan I	6.068	5.093	143.1E6	213.1E6	52.061	53.462
10) B gamma-Chl...	5.938	4.973	153.4E6	233.9E6	52.236	53.914
11) B alpha-Chl...	6.017	5.037	152.6E6	231.4E6	52.684	53.598
12) B 4,4'-DDE	6.191	5.226	143.9E6	231.9E6	55.116	55.203
13) MA Dieldrin	6.343	5.357	149.3E6	237.2E6	52.410	54.134
14) MA Endrin	6.572	5.633	125.8E6	201.4E6	49.273	59.154
15) B Endosulfa...	6.793	5.928	125.2E6	203.2E6	49.748	54.327
16) A 4,4'-DDD	6.709	5.781	109.8E6	186.9E6	59.346	58.671
17) MA 4,4'-DDT	7.023	6.031	109.1E6	189.8E6	51.961	53.368
18) B Endrin al...	6.923	6.107	101.3E6	167.1E6	52.025	52.872
19) B Endosulfa...	7.157	6.330	113.9E6	194.5E6	50.322	52.663
20) A Methoxychlor	7.498	6.606	57523362	103.0E6	51.774	52.784
21) B Endrin ke...	7.643	6.835	126.9E6	228.1E6	50.603	53.456
22) Mirex	8.115	7.015	97695885	176.6E6	47.349	50.640

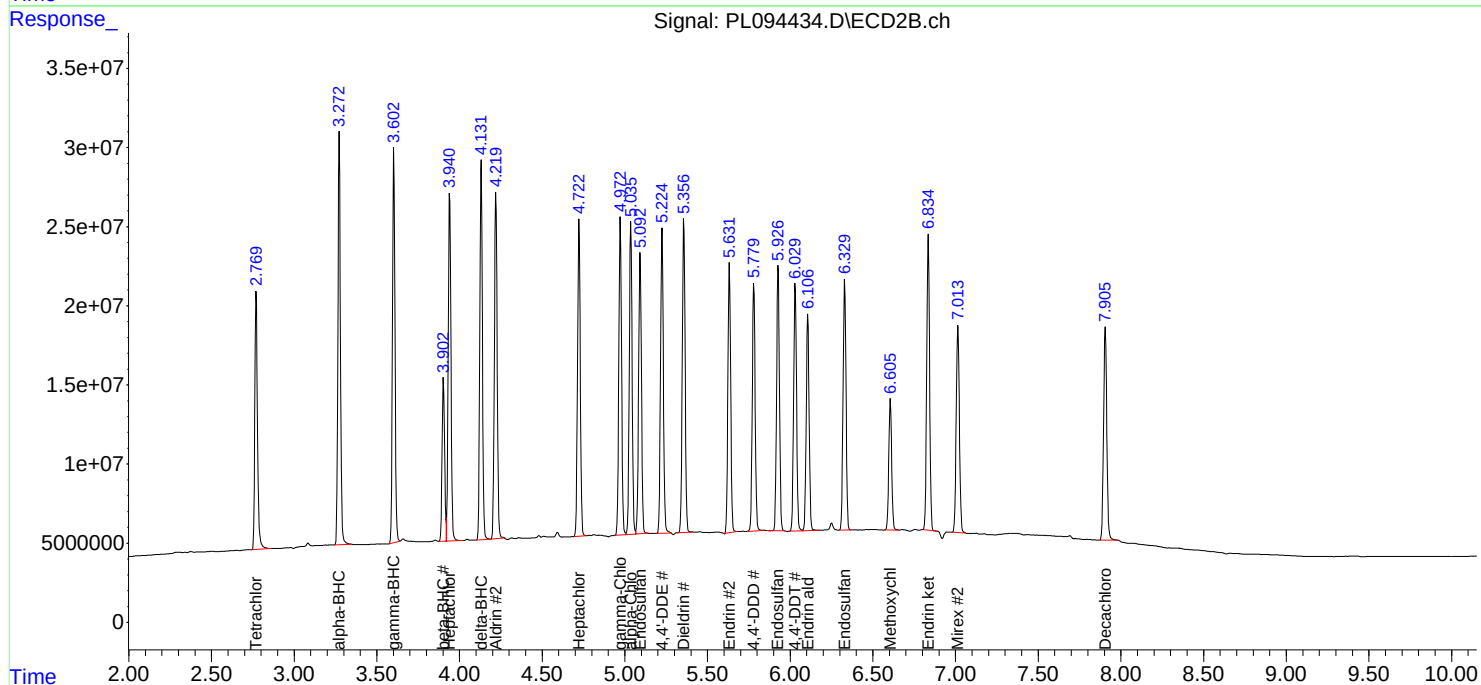
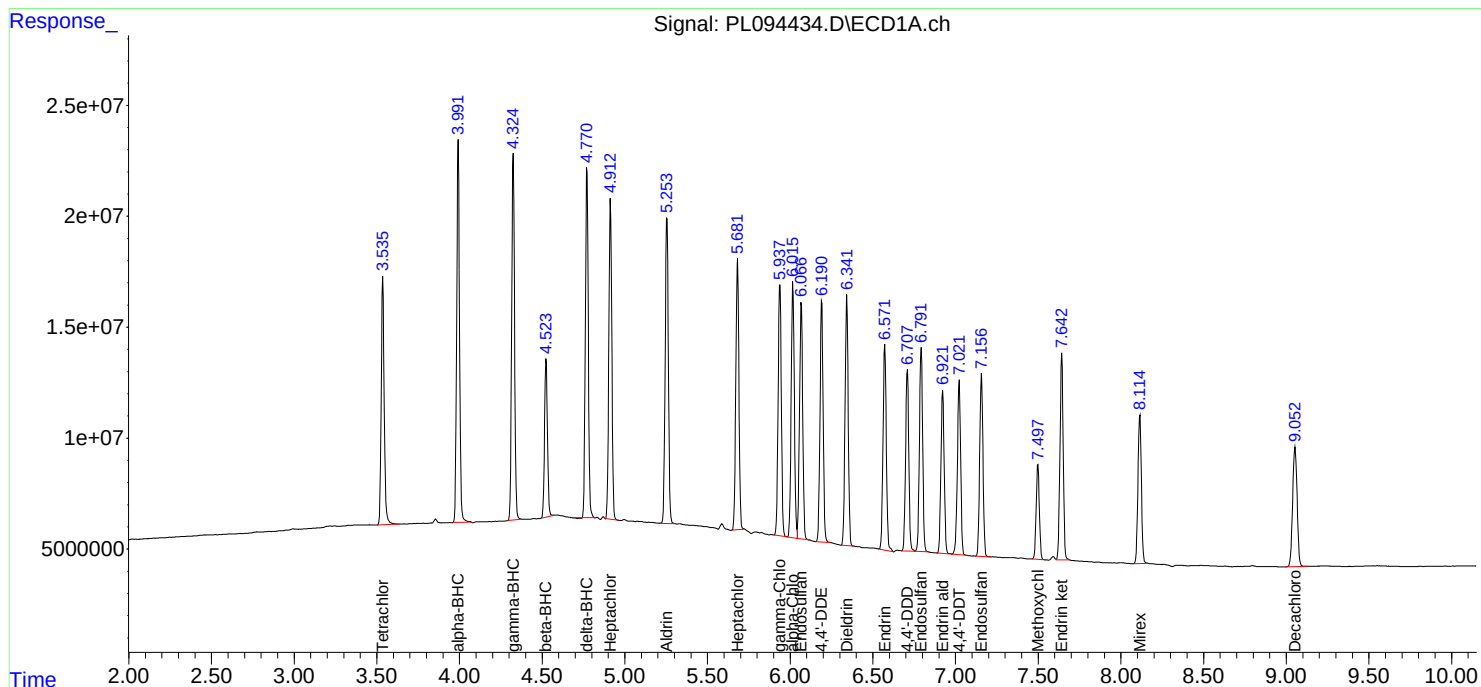
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

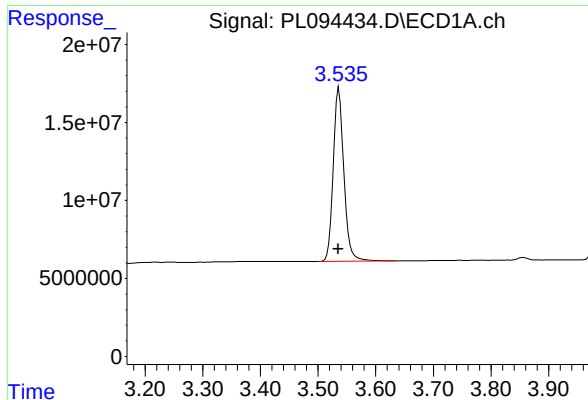
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022725\
Data File : PL094434.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2025 19:46
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 22:17:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 14:52:19 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 x0.25µm

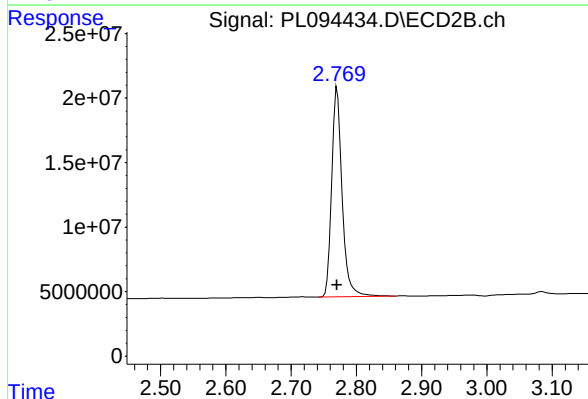




#1 Tetrachloro-m-xylene

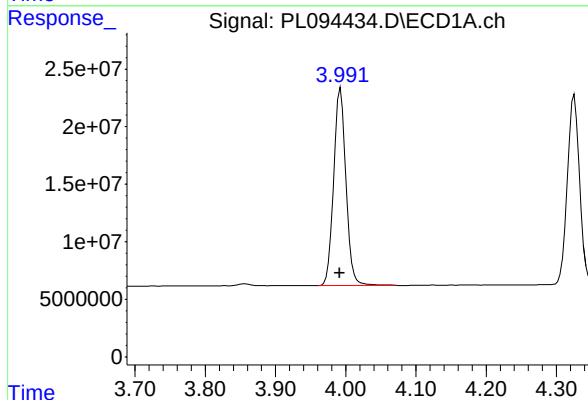
R.T.: 3.536 min
Delta R.T.: 0.001 min
Response: 140594782
Conc: 55.37 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050



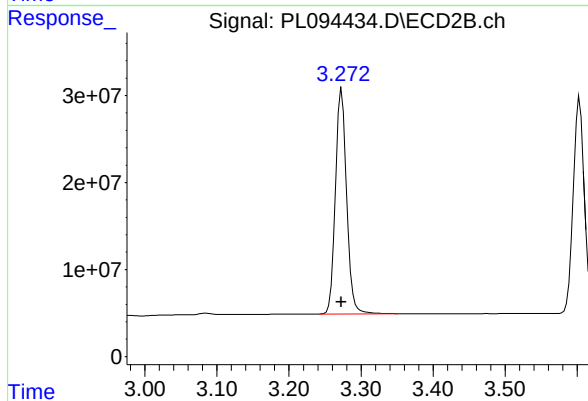
#1 Tetrachloro-m-xylene

R.T.: 2.771 min
Delta R.T.: 0.000 min
Response: 180453735
Conc: 56.55 ng/ml



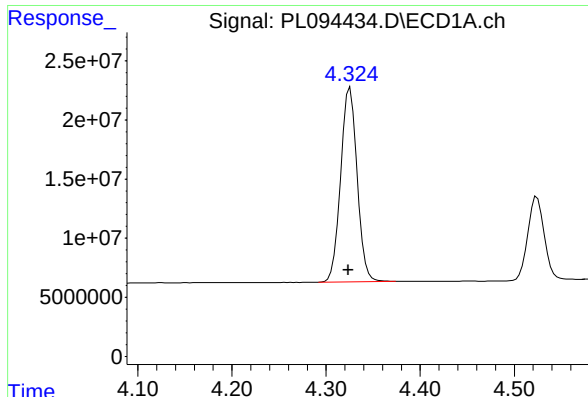
#2 alpha-BHC

R.T.: 3.993 min
Delta R.T.: 0.001 min
Response: 207652188
Conc: 54.90 ng/ml



#2 alpha-BHC

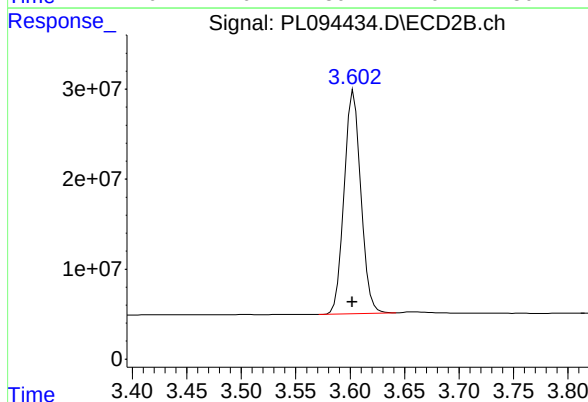
R.T.: 3.273 min
Delta R.T.: 0.000 min
Response: 276047852
Conc: 56.17 ng/ml



#3 gamma-BHC (Lindane)

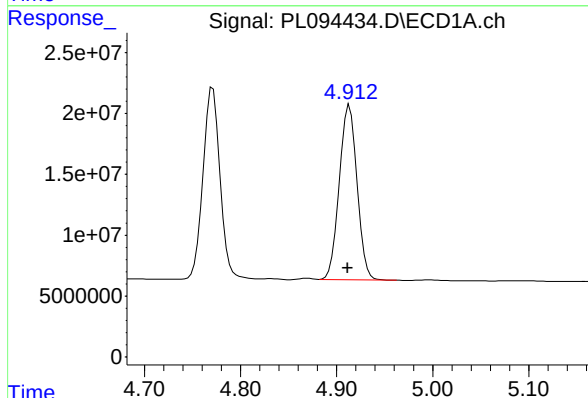
R.T.: 4.326 min
Delta R.T.: 0.002 min
Response: 200060362
Conc: 54.15 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050



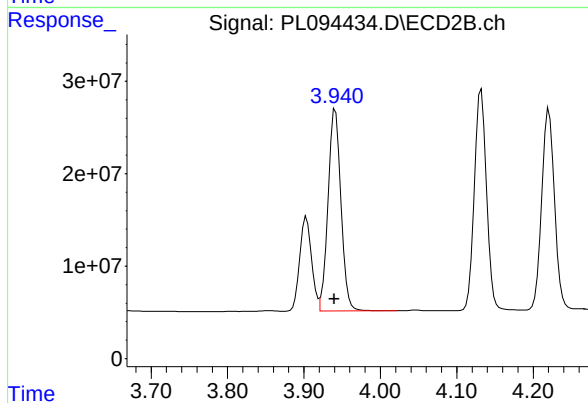
#3 gamma-BHC (Lindane)

R.T.: 3.603 min
Delta R.T.: 0.001 min
Response: 264012966
Conc: 56.05 ng/ml



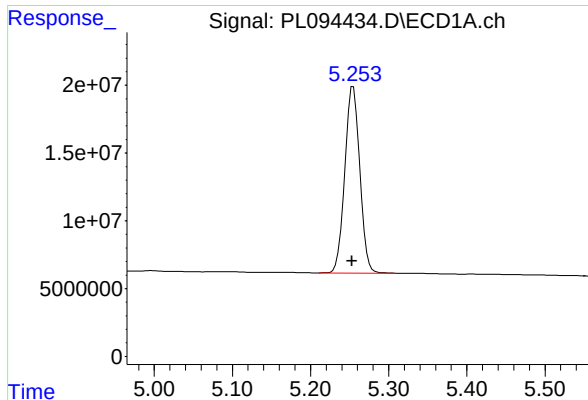
#4 Heptachlor

R.T.: 4.913 min
Delta R.T.: 0.002 min
Response: 182333422
Conc: 53.78 ng/ml



#4 Heptachlor

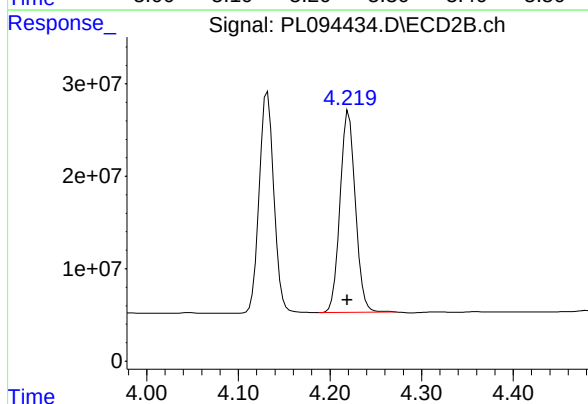
R.T.: 3.941 min
Delta R.T.: 0.001 min
Response: 255936534
Conc: 54.22 ng/ml



#5 Aldrin

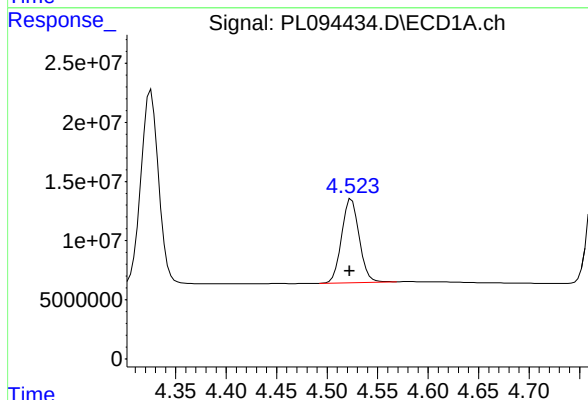
R.T.: 5.255 min
Delta R.T.: 0.002 min
Response: 183484688
Conc: 53.47 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050



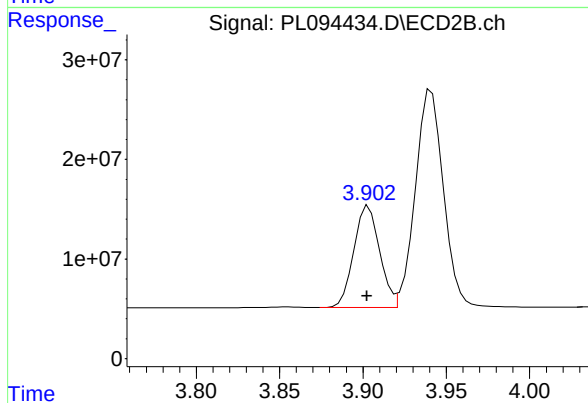
#5 Aldrin

R.T.: 4.220 min
Delta R.T.: 0.002 min
Response: 254225627
Conc: 55.02 ng/ml



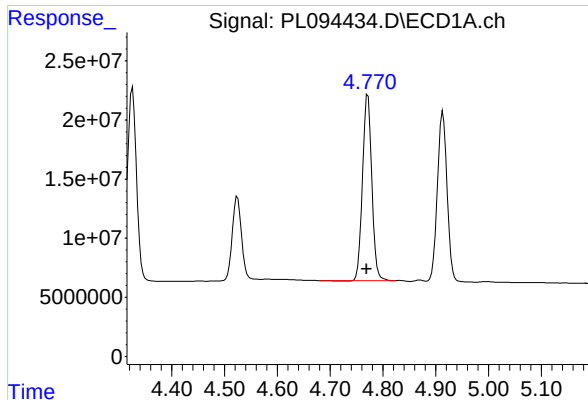
#6 beta-BHC

R.T.: 4.524 min
Delta R.T.: 0.002 min
Response: 86082688
Conc: 53.91 ng/ml



#6 beta-BHC

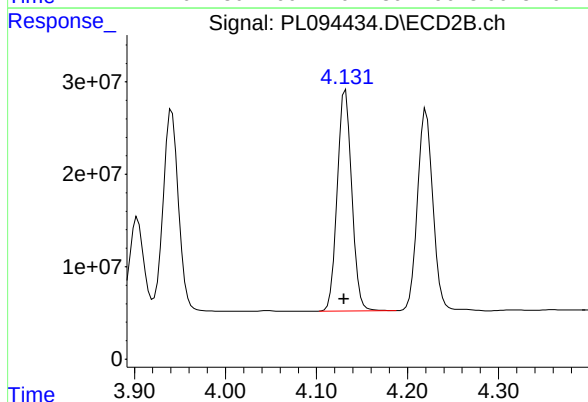
R.T.: 3.903 min
Delta R.T.: 0.000 min
Response: 109875124
Conc: 55.24 ng/ml



#7 delta-BHC

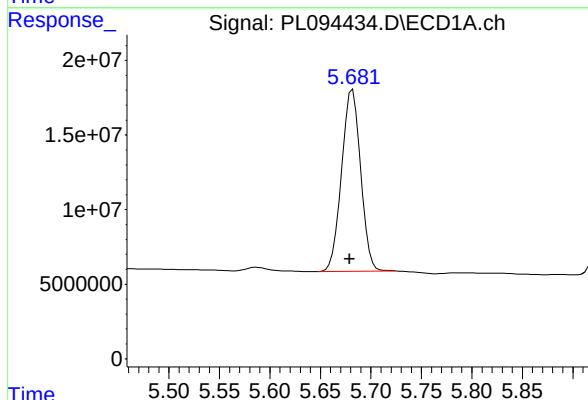
R.T.: 4.771 min
Delta R.T.: 0.002 min
Response: 192068016
Conc: 54.28 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050



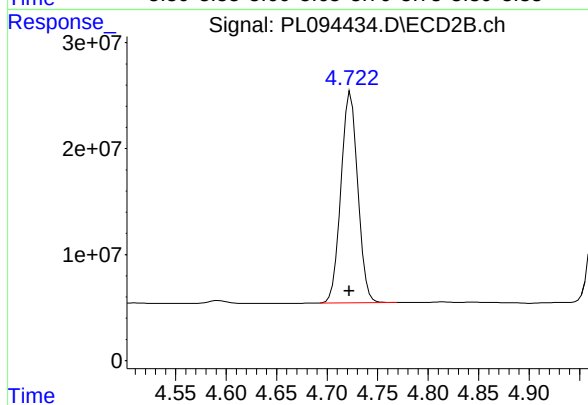
#7 delta-BHC

R.T.: 4.132 min
Delta R.T.: 0.002 min
Response: 264719962
Conc: 55.90 ng/ml



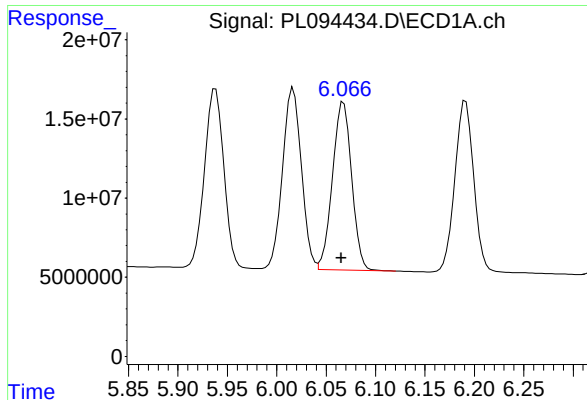
#8 Heptachlor epoxide

R.T.: 5.682 min
Delta R.T.: 0.003 min
Response: 160219757
Conc: 53.17 ng/ml



#8 Heptachlor epoxide

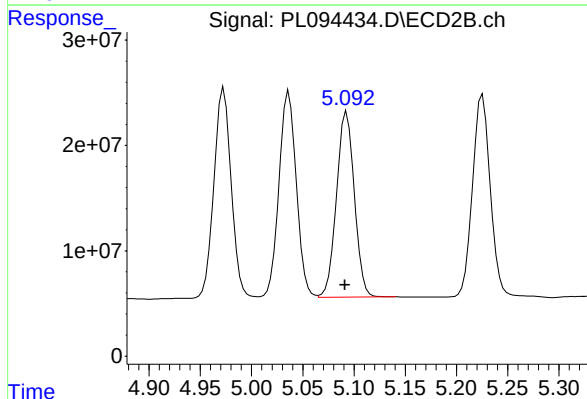
R.T.: 4.723 min
Delta R.T.: 0.001 min
Response: 231353453
Conc: 54.37 ng/ml



#9 Endosulfan I

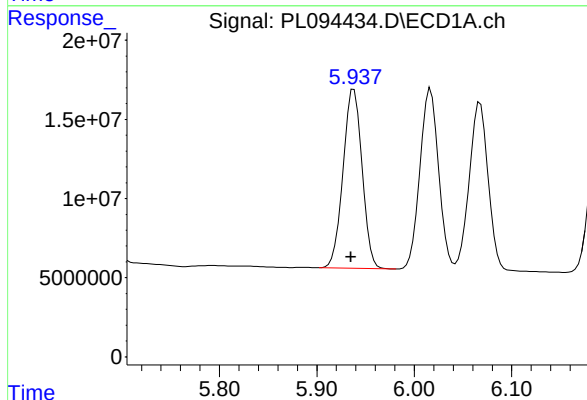
R.T.: 6.068 min
Delta R.T.: 0.003 min
Response: 143095293
Conc: 52.06 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050



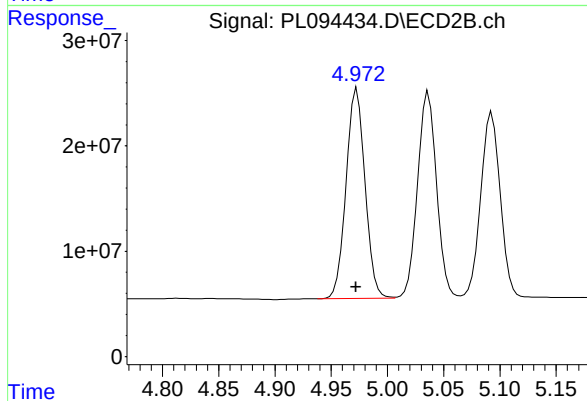
#9 Endosulfan I

R.T.: 5.093 min
Delta R.T.: 0.002 min
Response: 213129806
Conc: 53.46 ng/ml



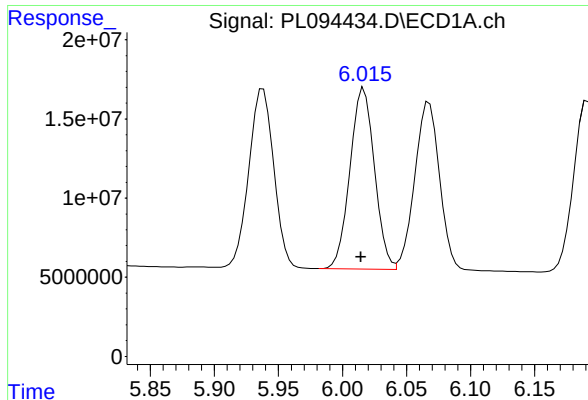
#10 gamma-Chlordane

R.T.: 5.938 min
Delta R.T.: 0.003 min
Response: 153370841
Conc: 52.24 ng/ml



#10 gamma-Chlordane

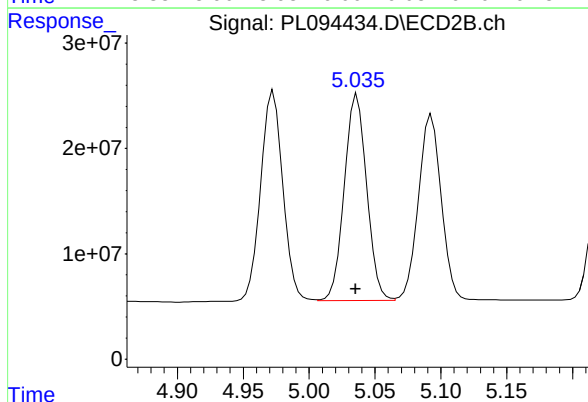
R.T.: 4.973 min
Delta R.T.: 0.000 min
Response: 233922099
Conc: 53.91 ng/ml



#11 alpha-Chlordane

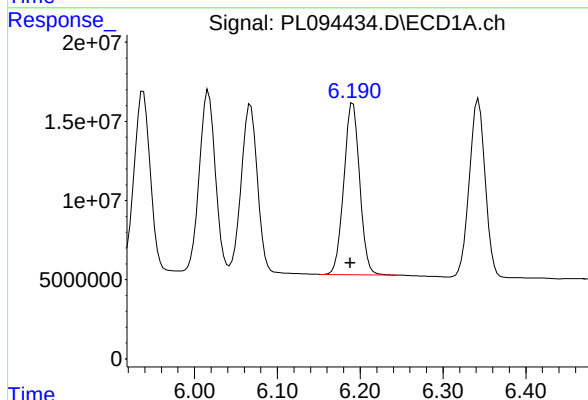
R.T.: 6.017 min
Delta R.T.: 0.002 min
Response: 152630131
Conc: 52.68 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050



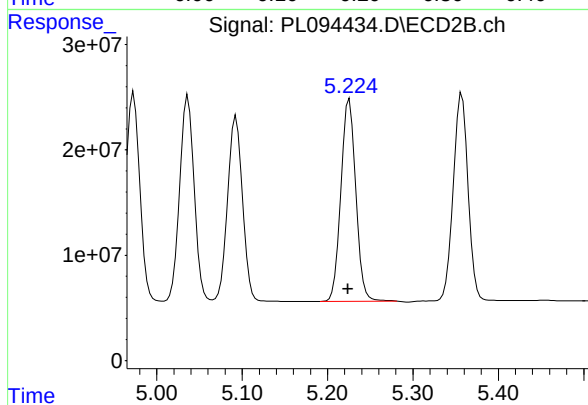
#11 alpha-Chlordane

R.T.: 5.037 min
Delta R.T.: 0.001 min
Response: 231415290
Conc: 53.60 ng/ml



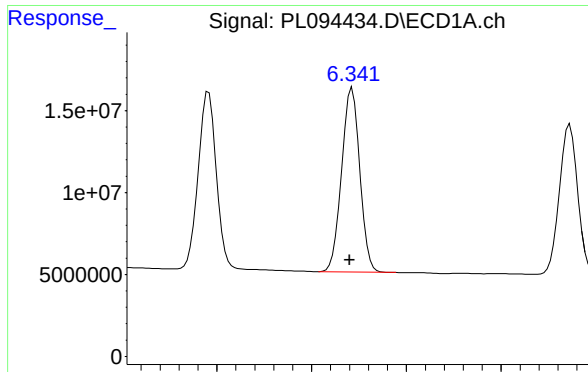
#12 4,4'-DDE

R.T.: 6.191 min
Delta R.T.: 0.003 min
Response: 143947658
Conc: 55.12 ng/ml



#12 4,4'-DDE

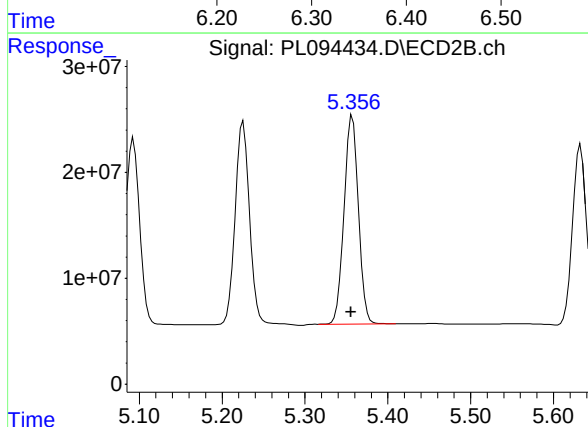
R.T.: 5.226 min
Delta R.T.: 0.002 min
Response: 231852896
Conc: 55.20 ng/ml



#13 Dieldrin

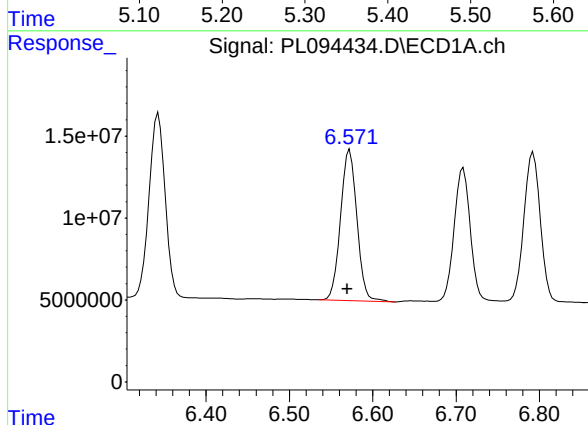
R.T.: 6.343 min
Delta R.T.: 0.003 min
Response: 149317416
Conc: 52.41 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050



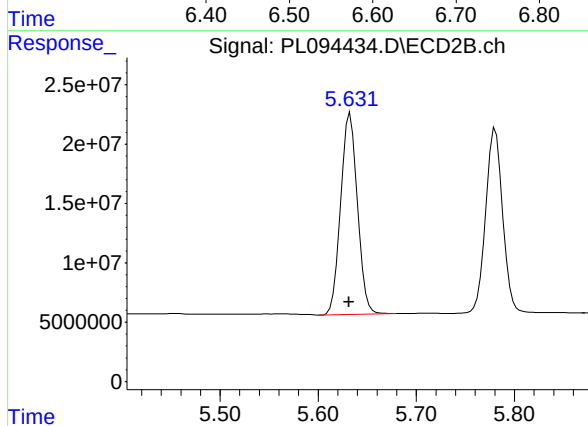
#13 Dieldrin

R.T.: 5.357 min
Delta R.T.: 0.002 min
Response: 237202157
Conc: 54.13 ng/ml



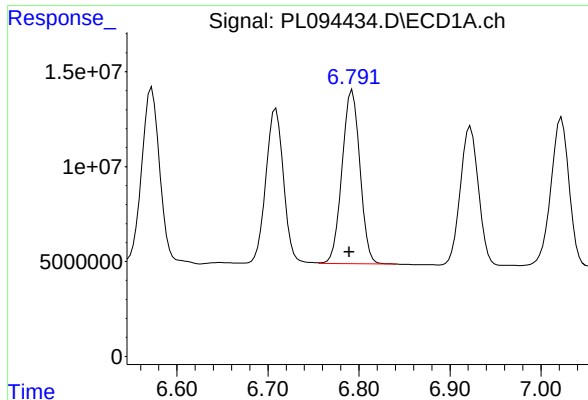
#14 Endrin

R.T.: 6.572 min
Delta R.T.: 0.003 min
Response: 125758957
Conc: 49.27 ng/ml



#14 Endrin

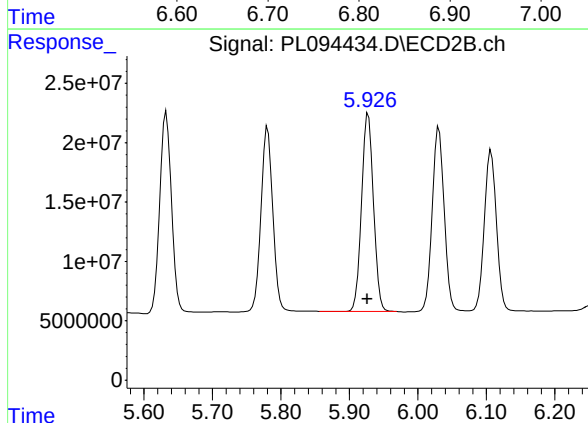
R.T.: 5.633 min
Delta R.T.: 0.001 min
Response: 201403639
Conc: 59.15 ng/ml



#15 Endosulfan II

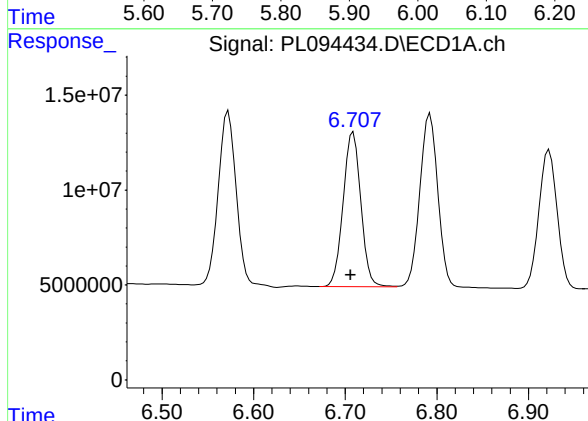
R.T.: 6.793 min
Delta R.T.: 0.003 min
Response: 125228824
Conc: 49.75 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050



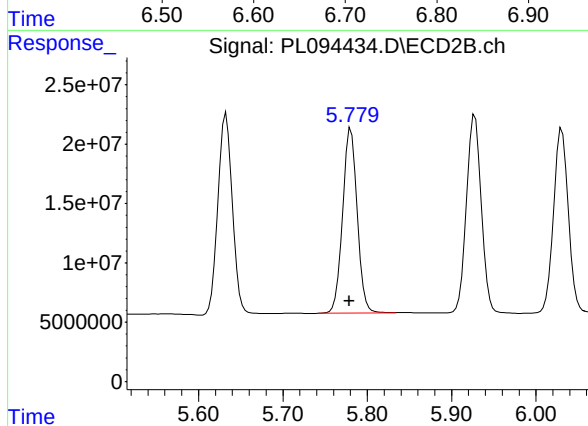
#15 Endosulfan II

R.T.: 5.928 min
Delta R.T.: 0.001 min
Response: 203156433
Conc: 54.33 ng/ml



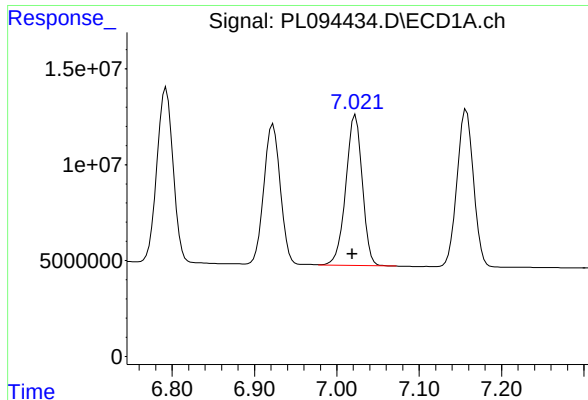
#16 4,4'-DDD

R.T.: 6.709 min
Delta R.T.: 0.003 min
Response: 109776114
Conc: 59.35 ng/ml



#16 4,4'-DDD

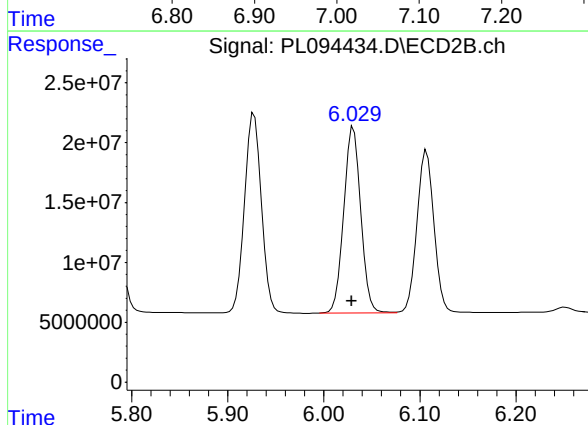
R.T.: 5.781 min
Delta R.T.: 0.002 min
Response: 186886796
Conc: 58.67 ng/ml



#17 4,4'-DDT

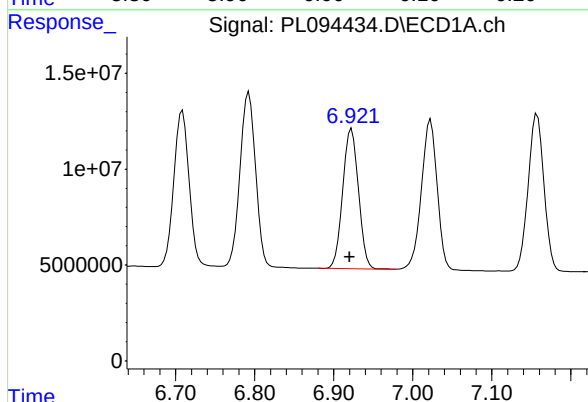
R.T.: 7.023 min
Delta R.T.: 0.004 min
Response: 109118856
Conc: 51.96 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050



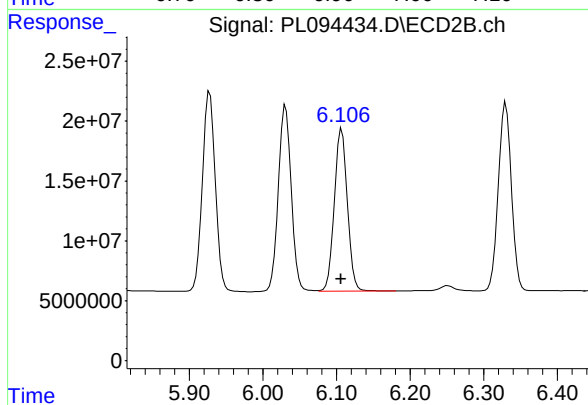
#17 4,4'-DDT

R.T.: 6.031 min
Delta R.T.: 0.002 min
Response: 189831044
Conc: 53.37 ng/ml



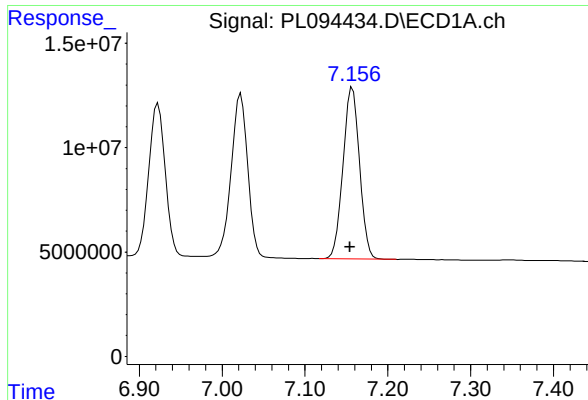
#18 Endrin aldehyde

R.T.: 6.923 min
Delta R.T.: 0.003 min
Response: 101283069
Conc: 52.03 ng/ml



#18 Endrin aldehyde

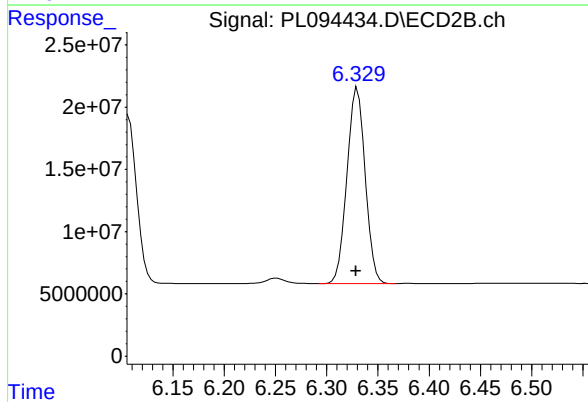
R.T.: 6.107 min
Delta R.T.: 0.001 min
Response: 167098732
Conc: 52.87 ng/ml



#19 Endosulfan Sulfate

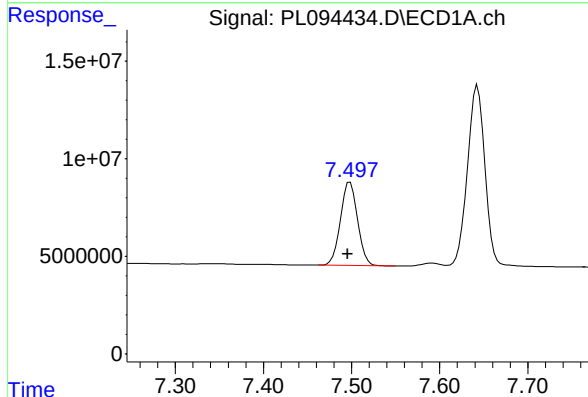
R.T.: 7.157 min
Delta R.T.: 0.003 min
Response: 113921291
Conc: 50.32 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050



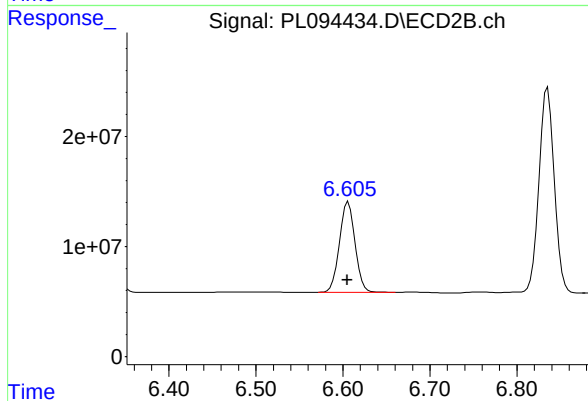
#19 Endosulfan Sulfate

R.T.: 6.330 min
Delta R.T.: 0.002 min
Response: 194519324
Conc: 52.66 ng/ml



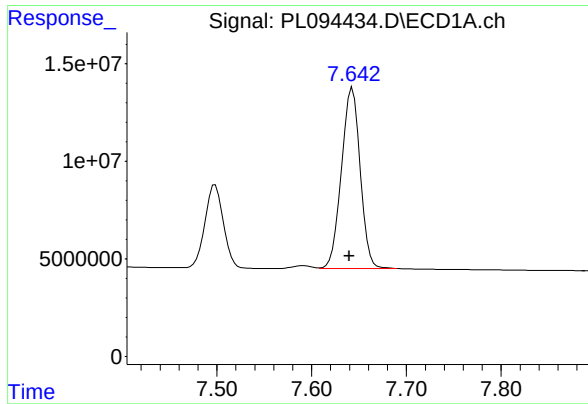
#20 Methoxychlor

R.T.: 7.498 min
Delta R.T.: 0.003 min
Response: 57523362
Conc: 51.77 ng/ml



#20 Methoxychlor

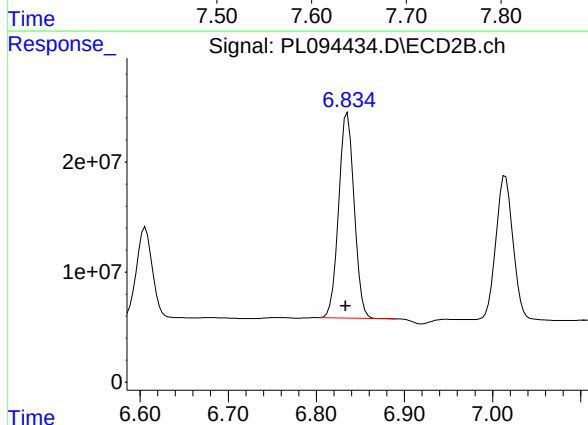
R.T.: 6.606 min
Delta R.T.: 0.001 min
Response: 102983086
Conc: 52.78 ng/ml



#21 Endrin ketone

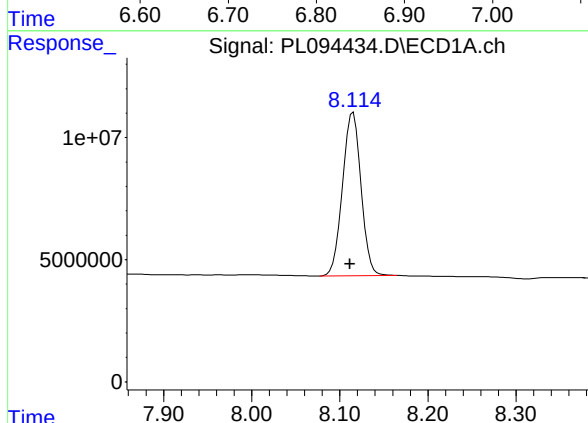
R.T.: 7.643 min
Delta R.T.: 0.004 min
Response: 126857194
Conc: 50.60 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050



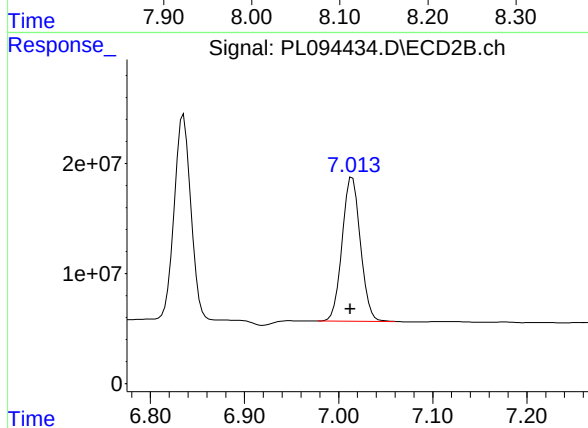
#21 Endrin ketone

R.T.: 6.835 min
Delta R.T.: 0.002 min
Response: 228125311
Conc: 53.46 ng/ml



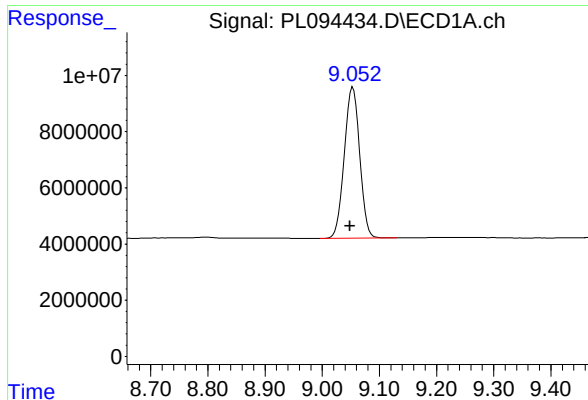
#22 Mirex

R.T.: 8.115 min
Delta R.T.: 0.004 min
Response: 97695885
Conc: 47.35 ng/ml



#22 Mirex

R.T.: 7.015 min
Delta R.T.: 0.002 min
Response: 176584522
Conc: 50.64 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.053 min

Delta R.T.: 0.005 min

Response: 101208830

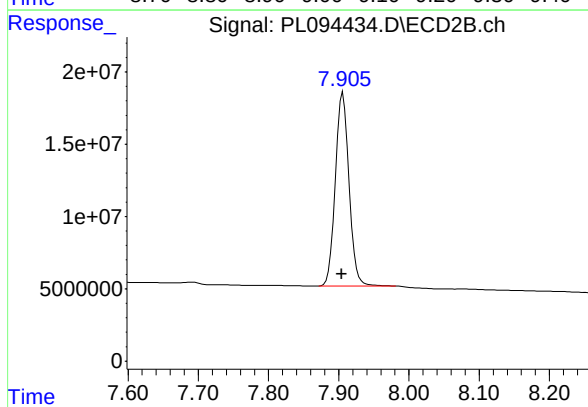
Conc: 47.58 ng/ml

Instrument :

ECD_L

ClientSampleId :

PSTDCCC050



#28 Decachlorobiphenyl

R.T.: 7.906 min

Delta R.T.: 0.002 min

Response: 180794384

Conc: 47.01 ng/ml



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

CALIBRATION VERIFICATION SUMMARY

Contract: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG NO.: Q1421

Continuing Calib Date: 02/27/2025 Initial Calibration Date(s): 02/21/2025 02/21/2025

Continuing Calib Time: 22:29 Initial Calibration Time(s): 10:56 11:51

GC Column: ZB-MR1 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	9.05	9.05	8.95	9.15	0.00
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
alpha-BHC	3.99	3.99	3.89	4.09	0.00
beta-BHC	4.53	4.52	4.42	4.62	-0.01
delta-BHC	4.77	4.77	4.67	4.87	0.00
gamma-BHC (Lindane)	4.33	4.32	4.22	4.42	-0.01
Heptachlor	4.91	4.91	4.81	5.01	0.00
Aldrin	5.26	5.25	5.15	5.35	-0.01
Heptachlor epoxide	5.68	5.68	5.58	5.78	0.00
Endosulfan I	6.07	6.07	5.97	6.17	0.00
Dieldrin	6.34	6.34	6.24	6.44	0.00
4,4'-DDE	6.19	6.19	6.09	6.29	0.00
Endrin	6.57	6.57	6.47	6.67	0.00
Endosulfan II	6.79	6.79	6.69	6.89	0.00
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
Endosulfan sulfate	7.16	7.15	7.05	7.25	-0.01
4,4'-DDT	7.02	7.02	6.92	7.12	0.00
Methoxychlor	7.50	7.50	7.40	7.60	0.00
Endrin ketone	7.64	7.64	7.54	7.74	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.00
alpha-Chlordane	6.02	6.02	5.92	6.12	0.00
gamma-Chlordane	5.94	5.94	5.84	6.04	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG NO.: Q1421

Continuing Calib Date: 02/27/2025 Initial Calibration Date(s): 02/21/2025 02/21/2025

Continuing Calib Time: 22:29 Initial Calibration Time(s): 10:56 11:51

GC Column: ZB-MR2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	7.91	7.90	7.80	8.00	-0.01
Tetrachloro-m-xylene	2.77	2.77	2.67	2.87	0.00
alpha-BHC	3.27	3.27	3.17	3.37	0.00
beta-BHC	3.90	3.90	3.80	4.00	0.00
delta-BHC	4.13	4.13	4.03	4.23	0.00
gamma-BHC (Lindane)	3.60	3.60	3.50	3.70	0.00
Heptachlor	3.94	3.94	3.84	4.04	0.00
Aldrin	4.22	4.22	4.12	4.32	0.00
Heptachlor epoxide	4.72	4.72	4.62	4.82	0.00
Endosulfan I	5.09	5.09	4.99	5.19	0.00
Dieldrin	5.36	5.36	5.26	5.46	0.00
4,4'-DDE	5.23	5.22	5.12	5.32	-0.01
Endrin	5.63	5.63	5.53	5.73	0.00
Endosulfan II	5.93	5.93	5.83	6.03	0.00
4,4'-DDD	5.78	5.78	5.68	5.88	0.00
Endosulfan sulfate	6.33	6.33	6.23	6.43	0.00
4,4'-DDT	6.03	6.03	5.93	6.13	0.00
Methoxychlor	6.61	6.61	6.51	6.71	0.00
Endrin ketone	6.84	6.83	6.73	6.93	-0.01
Endrin aldehyde	6.11	6.11	6.01	6.21	0.00
alpha-Chlordane	5.04	5.04	4.94	5.14	0.00
gamma-Chlordane	4.97	4.97	4.87	5.07	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG NO.: Q1421

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 02/21/2025 02/21/2025

Client Sample No.: CCAL02 Date Analyzed: 02/27/2025

Lab Sample No.: PSTDCCC050 Data File : PL094444.D Time Analyzed: 22:29

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	6.709	6.606	6.806	58.110	50.000	16.2
4,4'-DDE	6.191	6.088	6.288	52.630	50.000	5.3
4,4'-DDT	7.023	6.919	7.119	49.260	50.000	-1.5
Aldrin	5.256	5.153	5.353	50.330	50.000	0.7
alpha-BHC	3.993	3.891	4.091	51.190	50.000	2.4
alpha-Chlordane	6.018	5.915	6.115	50.190	50.000	0.4
beta-BHC	4.525	4.422	4.622	50.900	50.000	1.8
Decachlorobiphenyl	9.054	8.949	9.149	47.210	50.000	-5.6
delta-BHC	4.772	4.669	4.869	51.130	50.000	2.3
Dieldrin	6.343	6.240	6.440	50.150	50.000	0.3
Endosulfan I	6.068	5.965	6.165	49.550	50.000	-0.9
Endosulfan II	6.793	6.690	6.890	47.970	50.000	-4.1
Endosulfan sulfate	7.158	7.054	7.254	48.310	50.000	-3.4
Endrin	6.572	6.470	6.670	44.660	50.000	-10.7
Endrin aldehyde	6.923	6.820	7.020	50.680	50.000	1.4
Endrin ketone	7.643	7.539	7.739	49.510	50.000	-1.0
gamma-BHC (Lindane)	4.326	4.224	4.424	50.370	50.000	0.7
gamma-Chlordane	5.938	5.835	6.035	49.780	50.000	-0.4
Heptachlor	4.914	4.812	5.012	50.260	50.000	0.5
Heptachlor epoxide	5.683	5.579	5.779	51.160	50.000	2.3
Methoxychlor	7.500	7.396	7.596	49.170	50.000	-1.7
Tetrachloro-m-xylene	3.537	3.435	3.635	51.960	50.000	3.9



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

CALIBRATION VERIFICATION SUMMARY

Contract: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG NO.: Q1421

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 02/21/2025 02/21/2025

Client Sample No.: CCAL02 Date Analyzed: 02/27/2025

Lab Sample No.: PSTDCCC050 Data File : PL094444.D Time Analyzed: 22:29

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.781	5.679	5.879	58.000	50.000	16.0
4,4'-DDE	5.226	5.124	5.324	53.250	50.000	6.5
4,4'-DDT	6.031	5.929	6.129	50.450	50.000	0.9
Aldrin	4.221	4.119	4.319	52.180	50.000	4.4
alpha-BHC	3.274	3.172	3.372	52.900	50.000	5.8
alpha-Chlordane	5.037	4.935	5.135	51.020	50.000	2.0
beta-BHC	3.904	3.803	4.003	52.440	50.000	4.9
Decachlorobiphenyl	7.907	7.804	8.004	48.640	50.000	-2.7
delta-BHC	4.133	4.030	4.230	52.960	50.000	5.9
Dieldrin	5.357	5.256	5.456	51.940	50.000	3.9
Endosulfan I	5.093	4.991	5.191	49.380	50.000	-1.2
Endosulfan II	5.929	5.826	6.026	53.040	50.000	6.1
Endosulfan sulfate	6.331	6.228	6.428	51.480	50.000	3.0
Endrin	5.633	5.531	5.731	56.400	50.000	12.8
Endrin aldehyde	6.108	6.006	6.206	51.620	50.000	3.2
Endrin ketone	6.836	6.733	6.933	53.470	50.000	6.9
gamma-BHC (Lindane)	3.604	3.502	3.702	53.030	50.000	6.1
gamma-Chlordane	4.974	4.872	5.072	51.370	50.000	2.7
Heptachlor	3.941	3.840	4.040	51.160	50.000	2.3
Heptachlor epoxide	4.724	4.622	4.822	51.740	50.000	3.5
Methoxychlor	6.607	6.505	6.705	49.970	50.000	-0.1
Tetrachloro-m-xylene	2.772	2.670	2.870	53.580	50.000	7.2

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022725\
 Data File : PL094444.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Feb 2025 22:29
 Operator : AR\AJ
 Sample : PSTDCCC050
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

PSTDCCC050

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 03/02/2025

Supervised By :Ankita Jodhani 03/04/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 28 02:52:23 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
 Quant Title : GC Extractables
 QLast Update : Fri Feb 21 14:52:19 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 x0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.537	2.772	131.9E6	171.0E6	51.957	53.576
2) SA Decachlor...	9.054	7.907	100.4E6	187.1E6	47.207	48.643
Target Compounds						
2) A alpha-BHC	3.993	3.274	193.6E6	260.0E6	51.193	52.899
3) MA gamma-BHC...	4.326	3.604	186.1E6	249.7E6	50.367	53.026
4) MA Heptachlor	4.914	3.941	170.4E6	241.5E6	50.260	51.163
5) MB Aldrin	5.256	4.221	172.7E6	241.1E6	50.333	52.176
6) B beta-BHC	4.525	3.904	81288650	104.3E6	50.904	52.441
7) B delta-BHC	4.772	4.133	180.9E6	250.8E6	51.130	52.962
8) B Heptachlo...	5.683	4.724	154.2E6	220.2E6	51.156	51.742
9) A Endosulfan I	6.068	5.093	136.2E6	196.9E6	49.551	49.379
10) B gamma-Chl...	5.938	4.974	146.2E6	222.9E6	49.780	51.373
11) B alpha-Chl...	6.018	5.037	145.4E6	220.3E6	50.186	51.018
12) B 4,4'-DDE	6.191	5.226	137.4E6	223.6E6	52.626	53.245
13) MA Dieldrin	6.343	5.357	142.9E6	227.6E6	50.152	51.942
14) MA Endrin	6.572	5.633	114.0E6	192.0E6	44.660m	56.403 #
15) B Endosulfa...	6.793	5.929	120.7E6	198.3E6	47.968	53.041
16) A 4,4'-DDD	6.709	5.781	107.5E6	184.8E6	58.105	58.001
17) MA 4,4'-DDT	7.023	6.031	103.5E6	179.5E6	49.263	50.455
18) B Endrin al...	6.923	6.108	98665086	163.1E6	50.681	51.619
19) B Endosulfa...	7.158	6.331	109.4E6	190.2E6	48.306	51.485
20) A Methoxychlor	7.500	6.607	54630555	97486496	49.171	49.967
21) B Endrin ke...	7.643	6.836	124.1E6	228.2E6	49.515	53.475
22) Mirex	8.115	7.016	95673074	177.7E6	46.369	50.959

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022725\
Data File : PL094444.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2025 22:29
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

PSTDCCC050

Manual Integrations

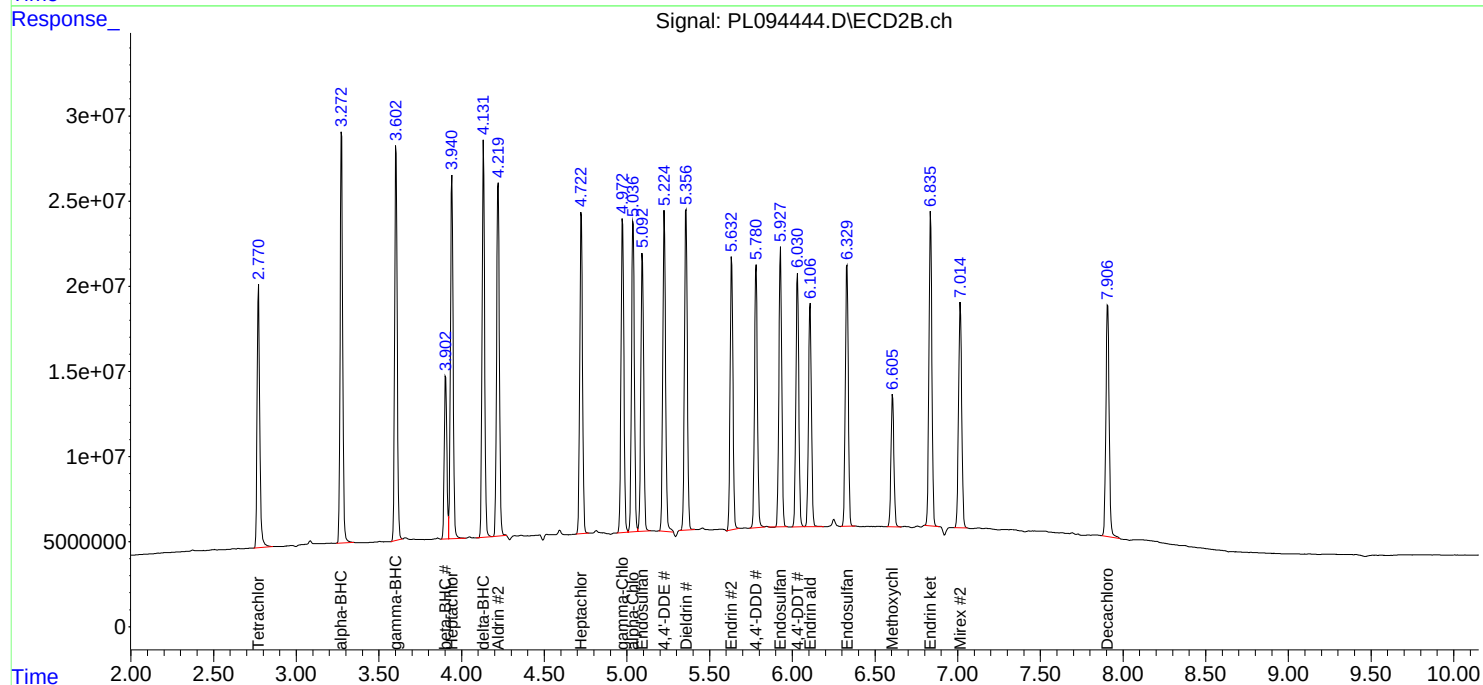
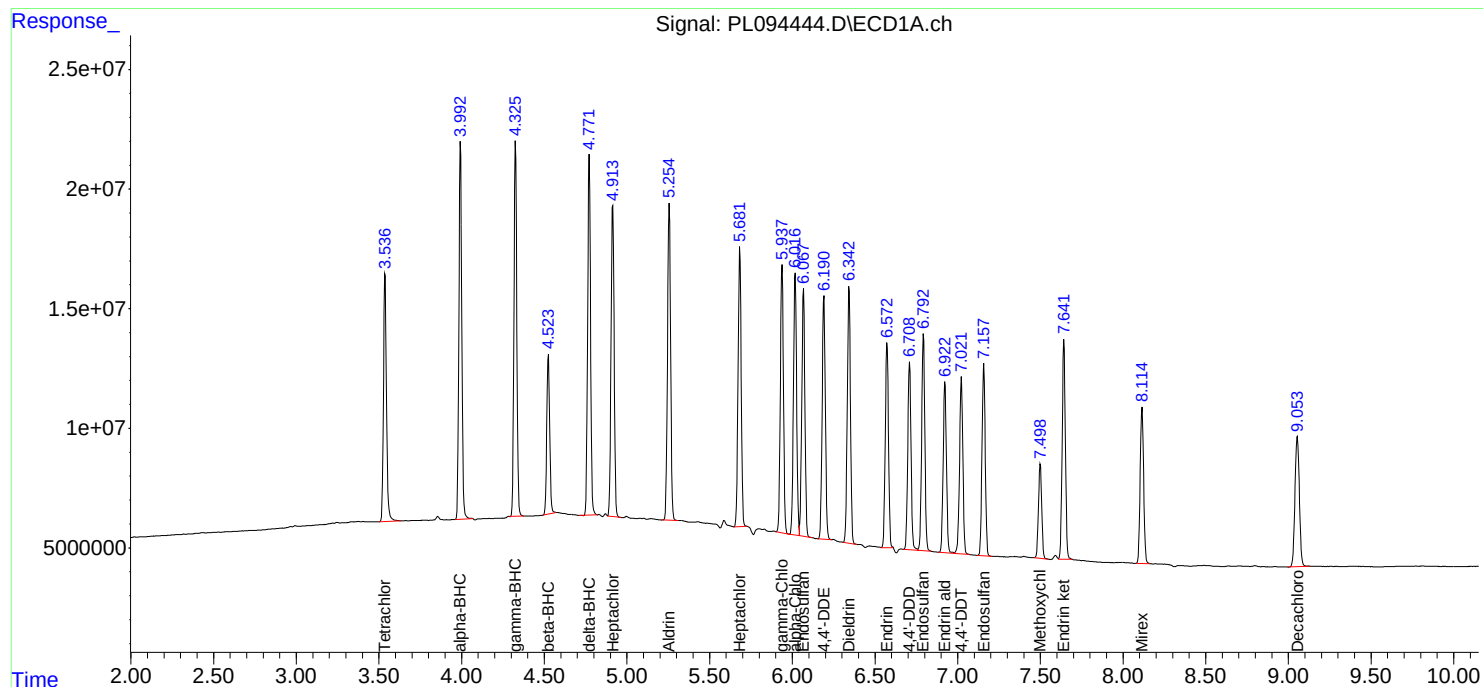
APPROVED

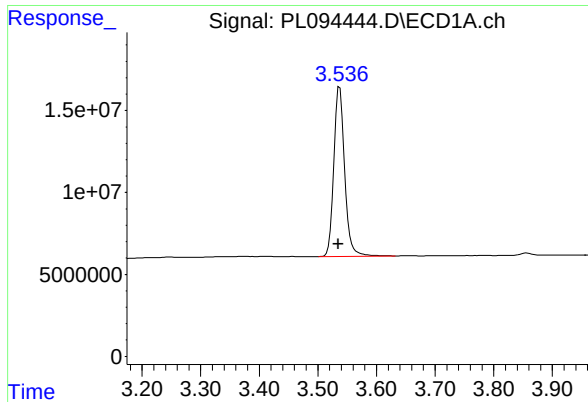
Reviewed By :Abdul Mirza 03/02/2025

Supervised By :Ankita Jodhani 03/04/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 02:52:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 14:52:19 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 x0.25µm





#1 Tetrachloro-m-xylene

R.T.: 3.537 min
Delta R.T.: 0.002 min
Response: 131923745
Conc: 51.96 ng/ml

Instrument :

ECD_L

ClientSampleId :

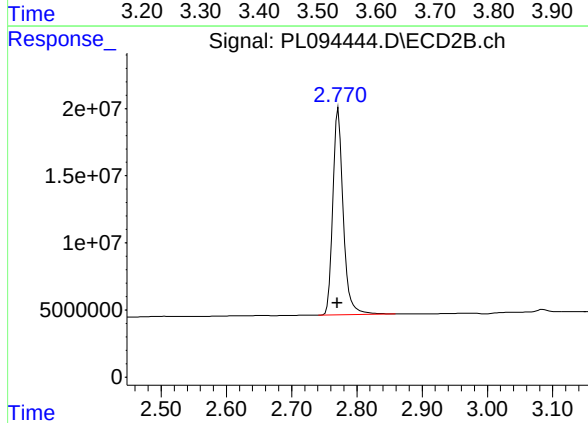
PSTDCCC050

Manual Integrations

APPROVED

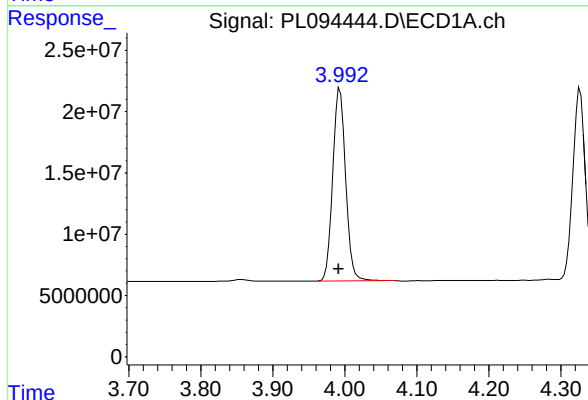
Reviewed By :Abdul Mirza 03/02/2025

Supervised By :Ankita Jodhani 03/04/2025



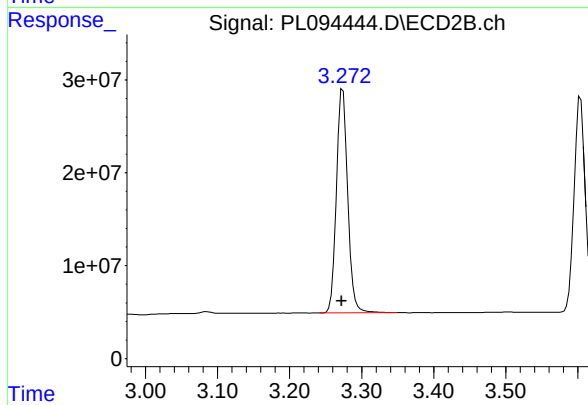
#1 Tetrachloro-m-xylene

R.T.: 2.772 min
Delta R.T.: 0.001 min
Response: 170970739
Conc: 53.58 ng/ml



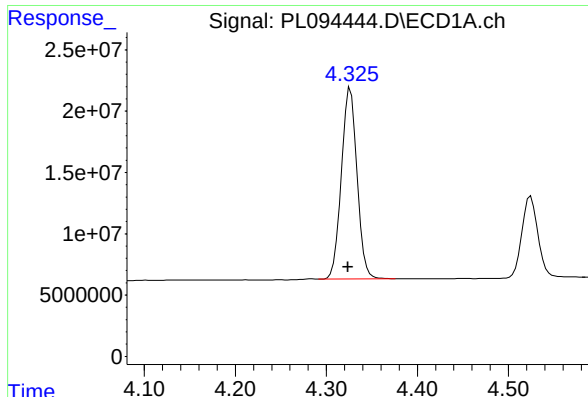
#2 alpha-BHC

R.T.: 3.993 min
Delta R.T.: 0.002 min
Response: 193645117
Conc: 51.19 ng/ml



#2 alpha-BHC

R.T.: 3.274 min
Delta R.T.: 0.002 min
Response: 259985852
Conc: 52.90 ng/ml



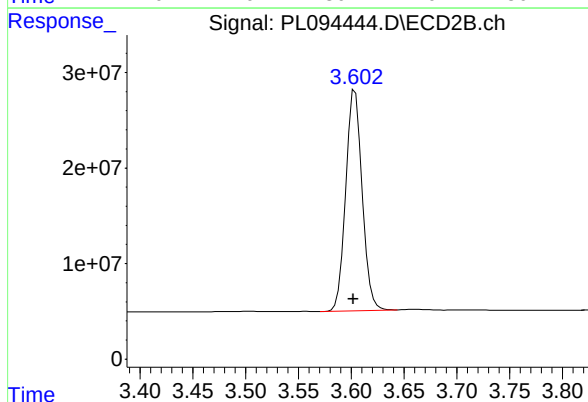
#3 gamma-BHC (Lindane)

R.T.: 4.326 min
Delta R.T.: 0.003 min
Response: 186091523
Conc: 50.37 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

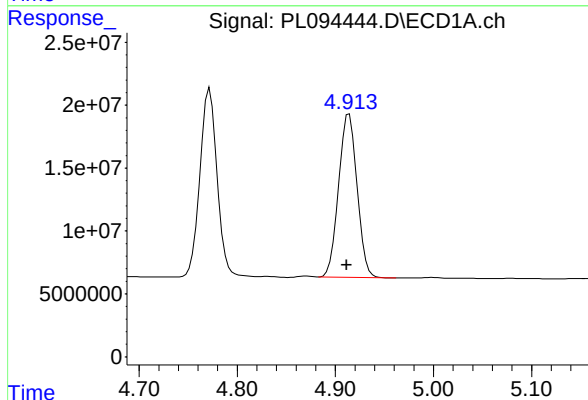
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



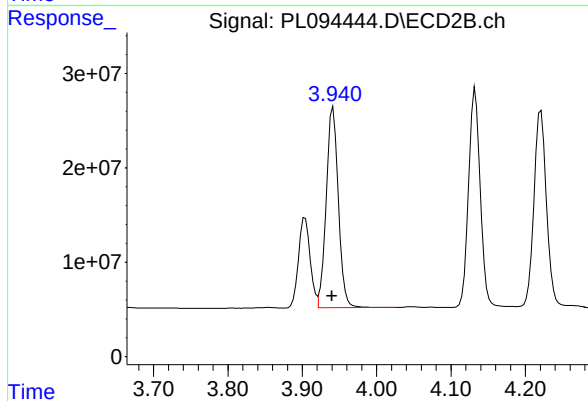
#3 gamma-BHC (Lindane)

R.T.: 3.604 min
Delta R.T.: 0.002 min
Response: 249749158
Conc: 53.03 ng/ml



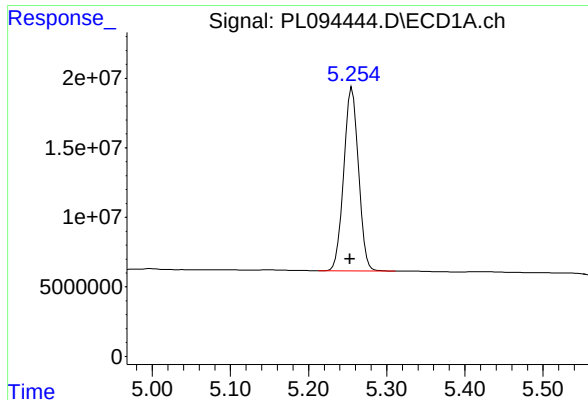
#4 Heptachlor

R.T.: 4.914 min
Delta R.T.: 0.002 min
Response: 170399973
Conc: 50.26 ng/ml



#4 Heptachlor

R.T.: 3.941 min
Delta R.T.: 0.002 min
Response: 241506229
Conc: 51.16 ng/ml



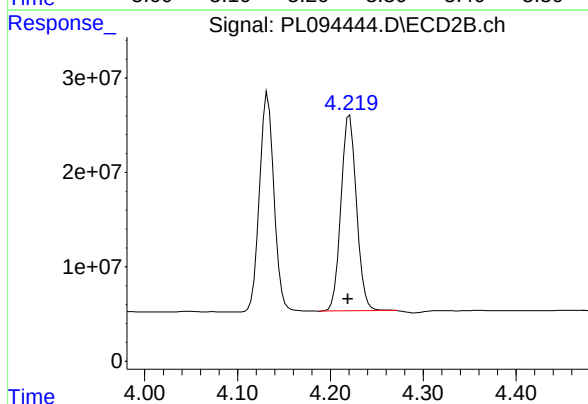
#5 Aldrin

R.T.: 5.256 min
Delta R.T.: 0.003 min
Response: 172731070
Conc: 50.33 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

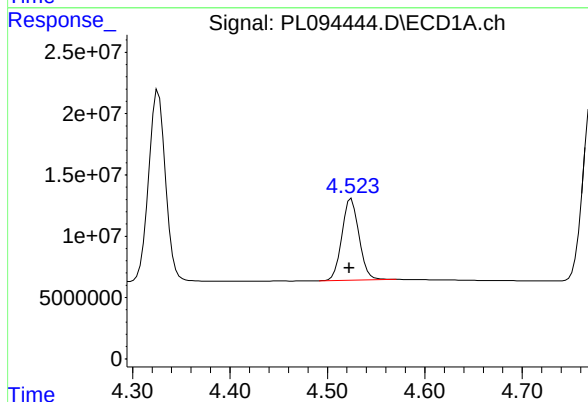
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



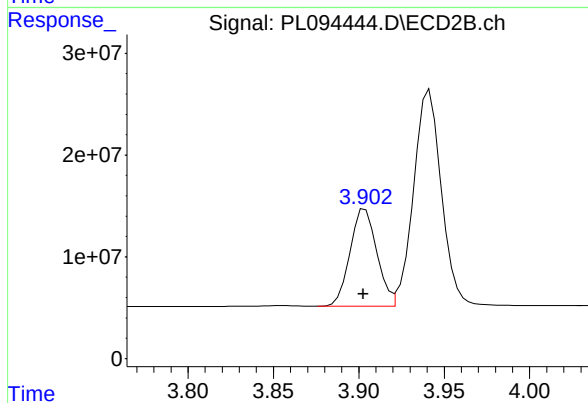
#5 Aldrin

R.T.: 4.221 min
Delta R.T.: 0.002 min
Response: 241071844
Conc: 52.18 ng/ml



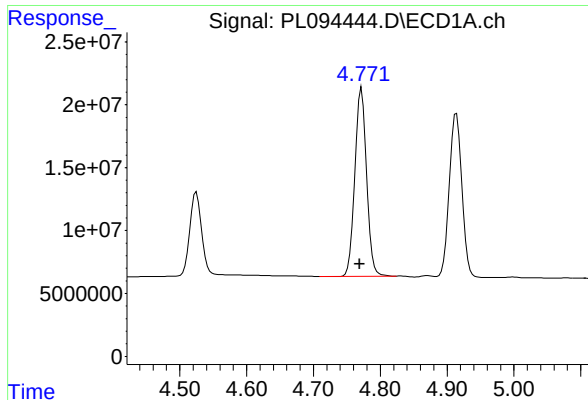
#6 beta-BHC

R.T.: 4.525 min
Delta R.T.: 0.002 min
Response: 81288650
Conc: 50.90 ng/ml



#6 beta-BHC

R.T.: 3.904 min
Delta R.T.: 0.001 min
Response: 104300688
Conc: 52.44 ng/ml



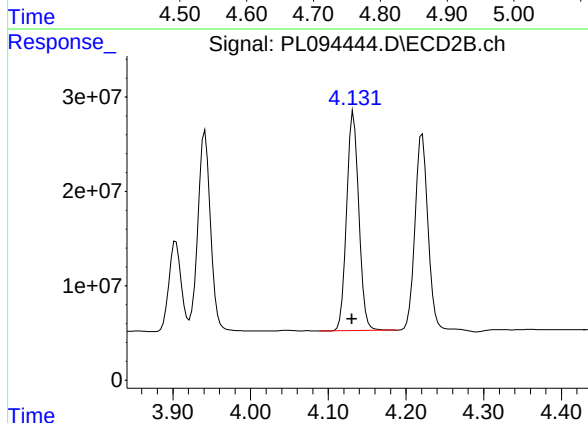
#7 delta-BHC

R.T.: 4.772 min
Delta R.T.: 0.003 min
Response: 180911663
Conc: 51.13 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

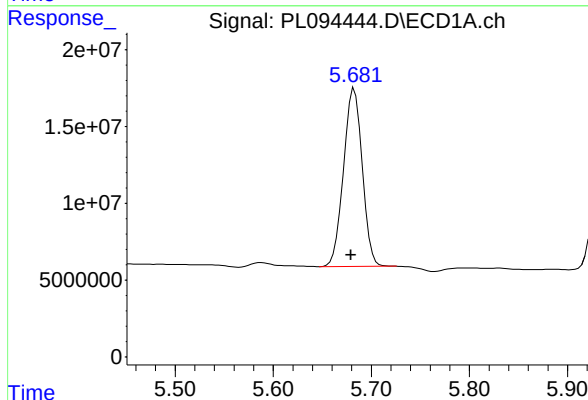
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



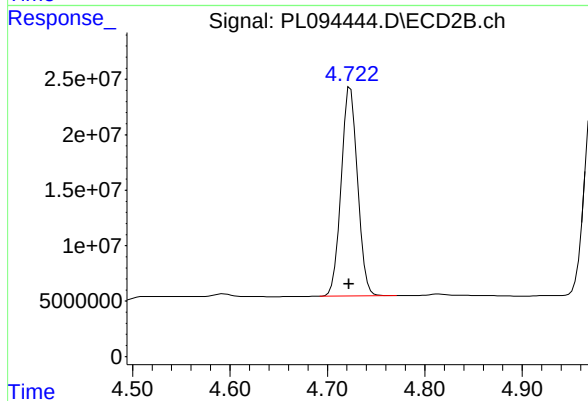
#7 delta-BHC

R.T.: 4.133 min
Delta R.T.: 0.002 min
Response: 250814567
Conc: 52.96 ng/ml



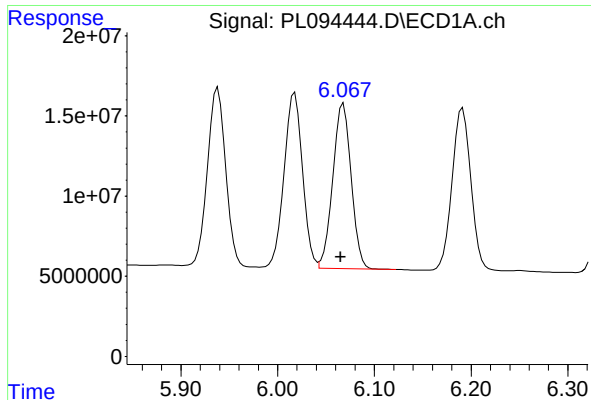
#8 Heptachlor epoxide

R.T.: 5.683 min
Delta R.T.: 0.004 min
Response: 154152929
Conc: 51.16 ng/ml



#8 Heptachlor epoxide

R.T.: 4.724 min
Delta R.T.: 0.002 min
Response: 220183774
Conc: 51.74 ng/ml



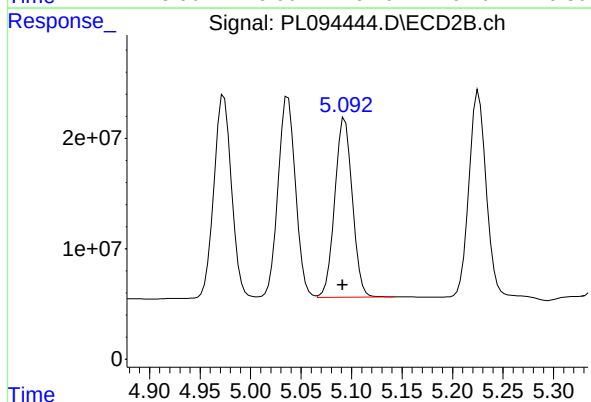
#9 Endosulfan I

R.T.: 6.068 min
Delta R.T.: 0.003 min
Response: 136198466
Conc: 49.55 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

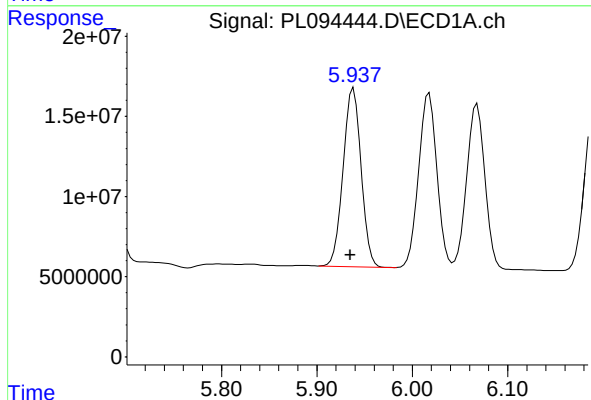
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



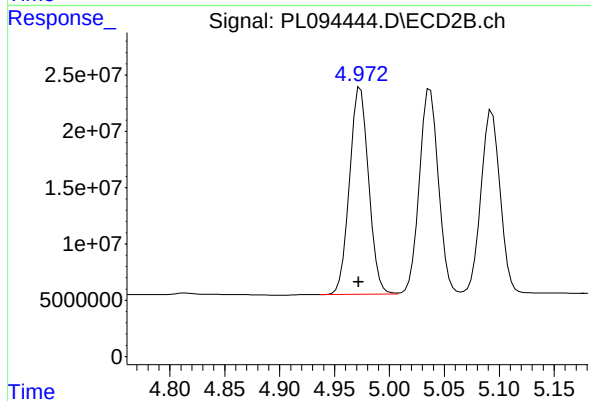
#9 Endosulfan I

R.T.: 5.093 min
Delta R.T.: 0.002 min
Response: 196854438
Conc: 49.38 ng/ml



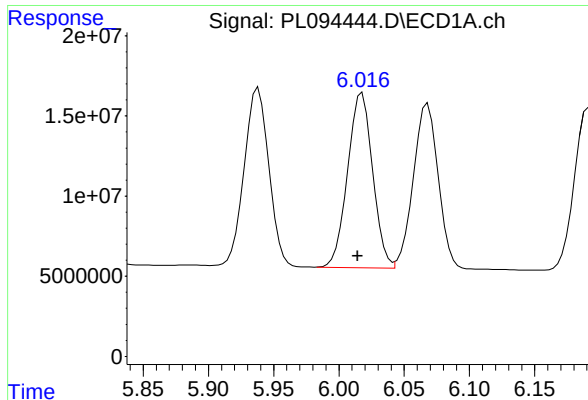
#10 gamma-Chlordane

R.T.: 5.938 min
Delta R.T.: 0.003 min
Response: 146161796
Conc: 49.78 ng/ml



#10 gamma-Chlordane

R.T.: 4.974 min
Delta R.T.: 0.002 min
Response: 222900825
Conc: 51.37 ng/ml



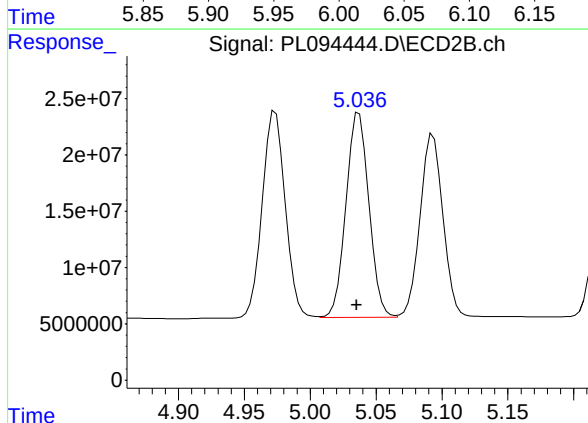
#11 alpha-Chlordane

R.T.: 6.018 min
Delta R.T.: 0.003 min
Response: 145392895
Conc: 50.19 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

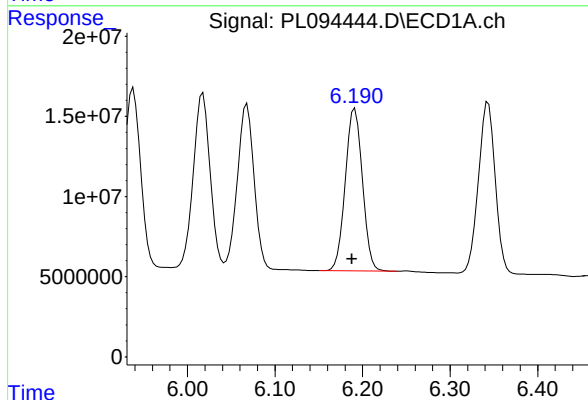
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



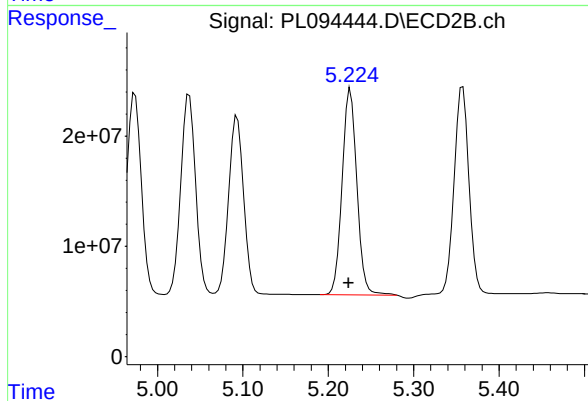
#11 alpha-Chlordane

R.T.: 5.037 min
Delta R.T.: 0.002 min
Response: 220275893
Conc: 51.02 ng/ml



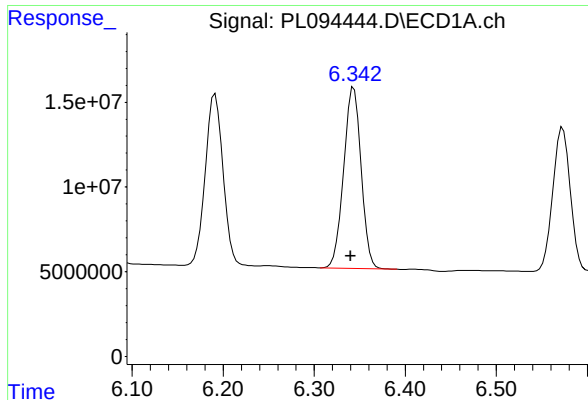
#12 4,4'-DDE

R.T.: 6.191 min
Delta R.T.: 0.003 min
Response: 137444411
Conc: 52.63 ng/ml



#12 4,4'-DDE

R.T.: 5.226 min
Delta R.T.: 0.002 min
Response: 223629333
Conc: 53.25 ng/ml



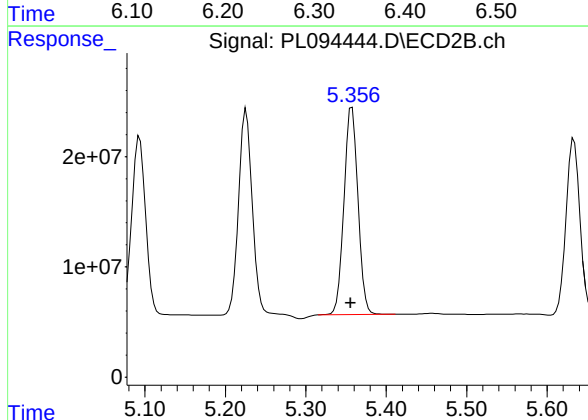
#13 Dieldrin

R.T.: 6.343 min
Delta R.T.: 0.003 min
Response: 142885449
Conc: 50.15 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

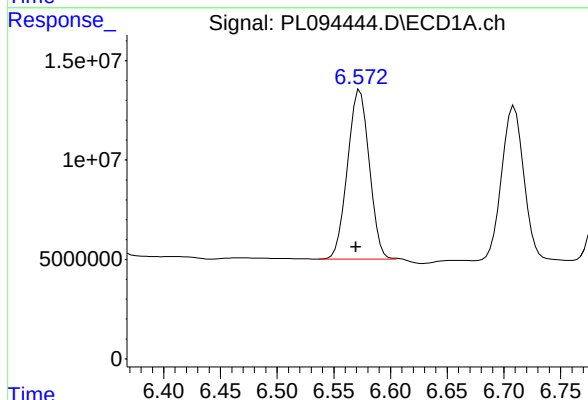
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



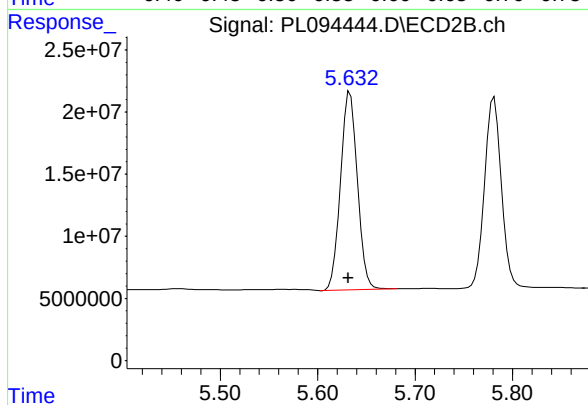
#13 Dieldrin

R.T.: 5.357 min
Delta R.T.: 0.002 min
Response: 227599507
Conc: 51.94 ng/ml



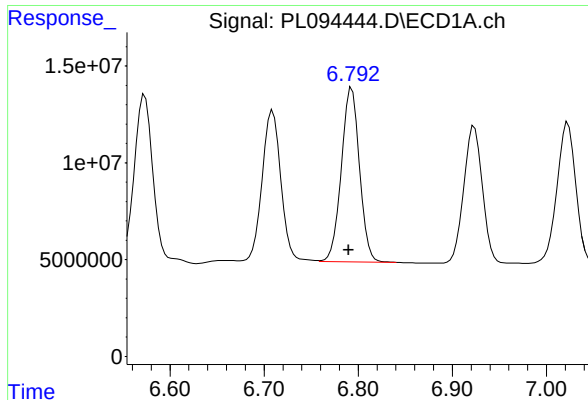
#14 Endrin

R.T.: 6.572 min
Delta R.T.: 0.002 min
Response: 113985817
Conc: 44.66 ng/ml m



#14 Endrin

R.T.: 5.633 min
Delta R.T.: 0.002 min
Response: 192035144
Conc: 56.40 ng/ml



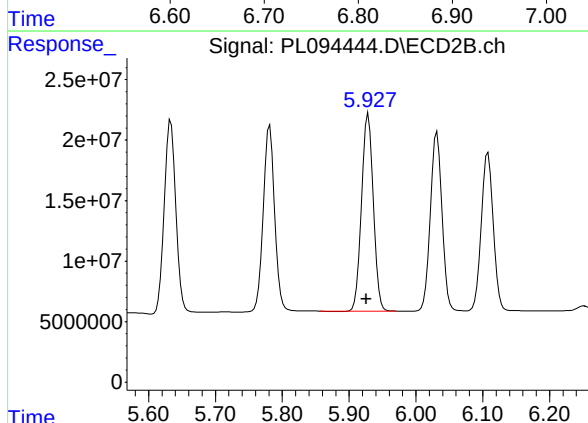
#15 Endosulfan II

R.T.: 6.793 min
Delta R.T.: 0.004 min
Response: 120746981
Conc: 47.97 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

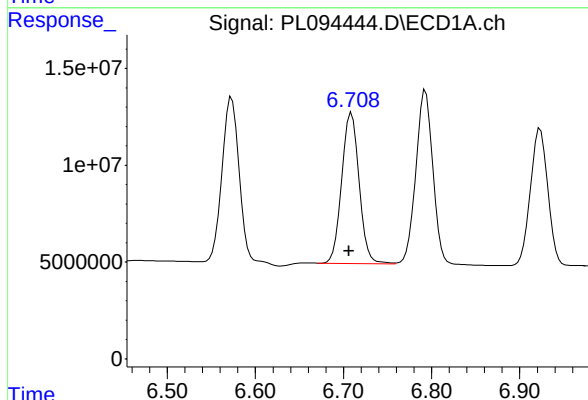
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



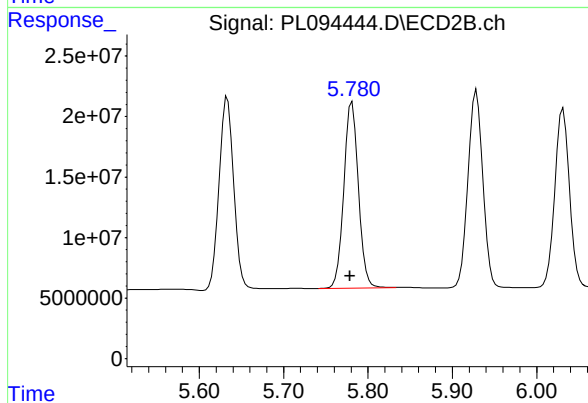
#15 Endosulfan II

R.T.: 5.929 min
Delta R.T.: 0.003 min
Response: 198349302
Conc: 53.04 ng/ml



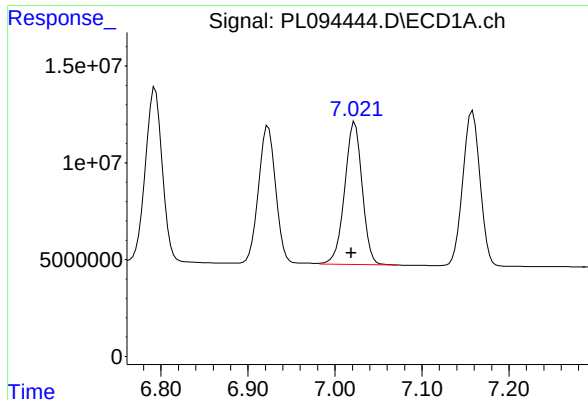
#16 4,4'-DDD

R.T.: 6.709 min
Delta R.T.: 0.003 min
Response: 107480450
Conc: 58.11 ng/ml



#16 4,4'-DDD

R.T.: 5.781 min
Delta R.T.: 0.002 min
Response: 184752058
Conc: 58.00 ng/ml



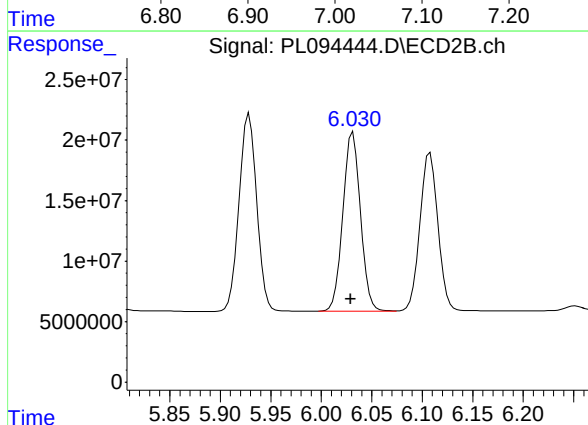
#17 4,4'-DDT

R.T.: 7.023 min
Delta R.T.: 0.004 min
Response: 103453849
Conc: 49.26 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

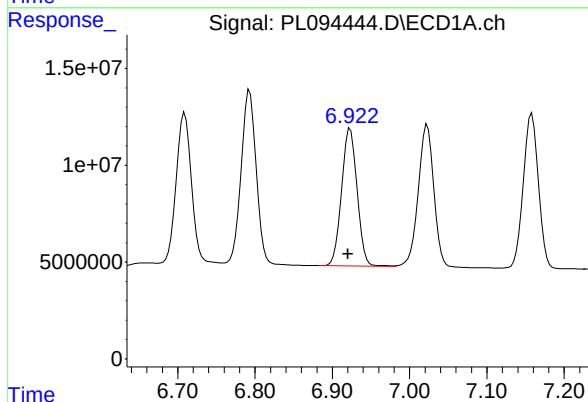
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



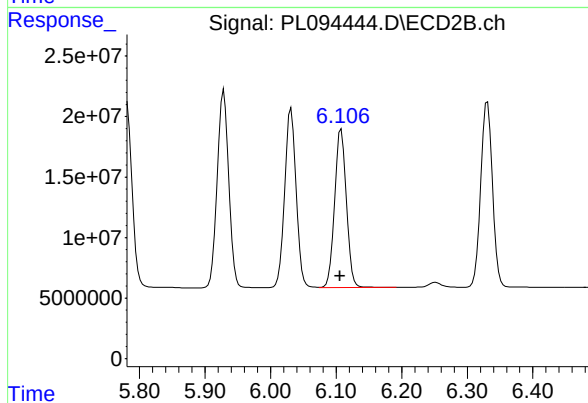
#17 4,4'-DDT

R.T.: 6.031 min
Delta R.T.: 0.002 min
Response: 179467662
Conc: 50.45 ng/ml



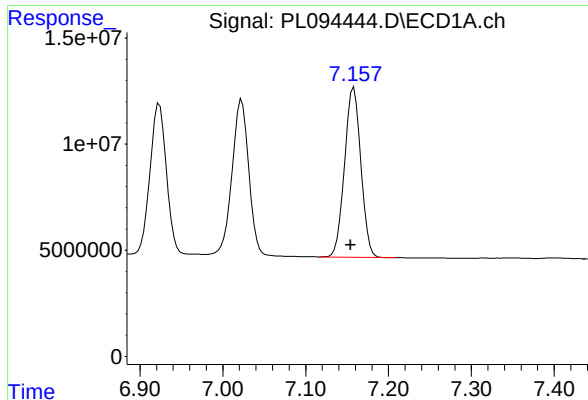
#18 Endrin aldehyde

R.T.: 6.923 min
Delta R.T.: 0.003 min
Response: 98665086
Conc: 50.68 ng/ml



#18 Endrin aldehyde

R.T.: 6.108 min
Delta R.T.: 0.002 min
Response: 163139260
Conc: 51.62 ng/ml



#19 Endosulfan Sulfate

R.T.: 7.158 min
Delta R.T.: 0.004 min
Response: 109357913
Conc: 48.31 ng/ml

Instrument :

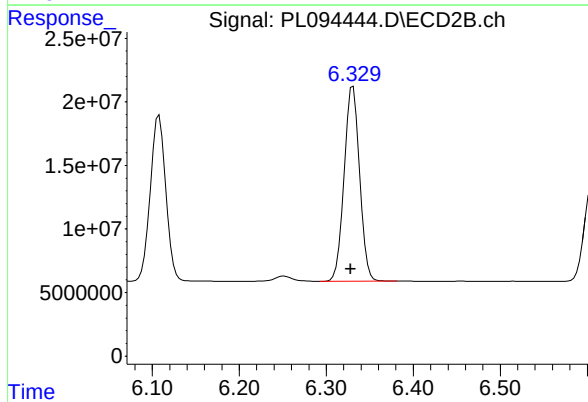
ECD_L

ClientSampleId :

PSTDCCC050

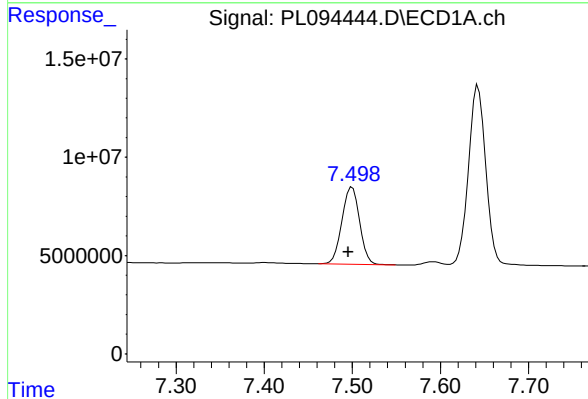
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



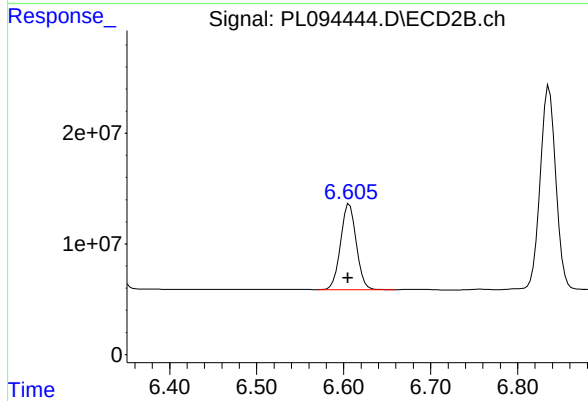
#19 Endosulfan Sulfate

R.T.: 6.331 min
Delta R.T.: 0.002 min
Response: 190167543
Conc: 51.48 ng/ml



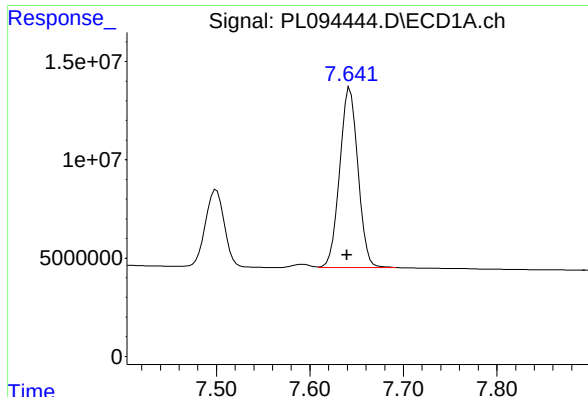
#20 Methoxychlor

R.T.: 7.500 min
Delta R.T.: 0.004 min
Response: 54630555
Conc: 49.17 ng/ml



#20 Methoxychlor

R.T.: 6.607 min
Delta R.T.: 0.002 min
Response: 97486496
Conc: 49.97 ng/ml



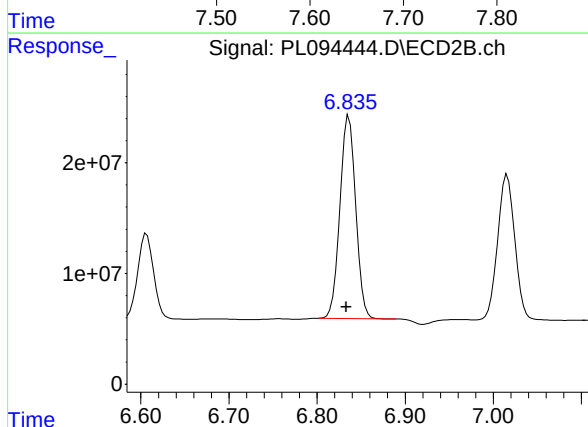
#21 Endrin ketone

R.T.: 7.643 min
Delta R.T.: 0.003 min
Response: 124128857
Conc: 49.51 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



#21 Endrin ketone

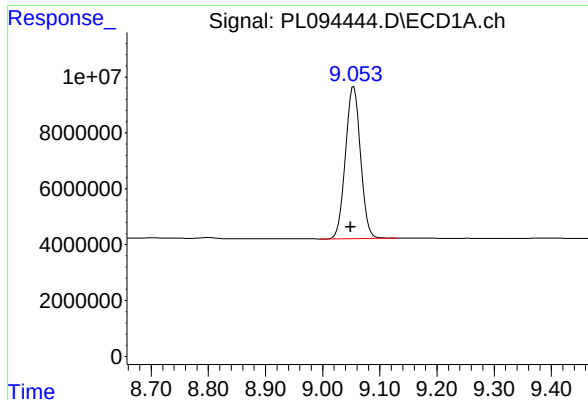
R.T.: 6.836 min
Delta R.T.: 0.003 min
Response: 228205342
Conc: 53.47 ng/ml

#22 Mirex

R.T.: 8.115 min
Delta R.T.: 0.004 min
Response: 95673074
Conc: 46.37 ng/ml

#22 Mirex

R.T.: 7.016 min
Delta R.T.: 0.003 min
Response: 177696551
Conc: 50.96 ng/ml



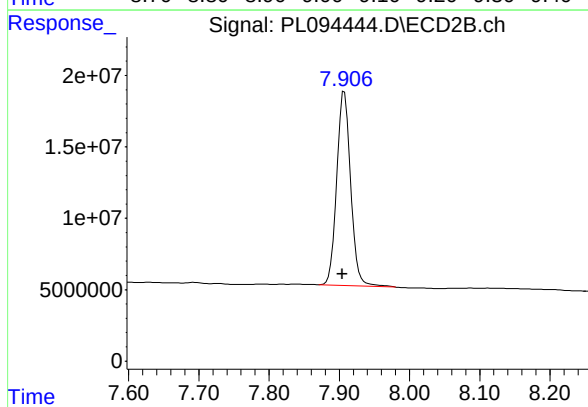
#28 Decachlorobiphenyl

R.T.: 9.054 min
Delta R.T.: 0.005 min
Response: 100420758
Conc: 47.21 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



#28 Decachlorobiphenyl

R.T.: 7.907 min
Delta R.T.: 0.003 min
Response: 187064763
Conc: 48.64 ng/ml



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

CALIBRATION VERIFICATION SUMMARY

Contract: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG NO.: Q1421

Continuing Calib Date: 02/28/2025 Initial Calibration Date(s): 02/21/2025 02/21/2025

Continuing Calib Time: 14:33 Initial Calibration Time(s): 10:56 11:51

GC Column: ZB-MR1 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
Decachlorobiphenyl	9.05	9.05	8.95	9.15	0.00
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
alpha-BHC	3.99	3.99	3.89	4.09	0.00
beta-BHC	4.53	4.52	4.42	4.62	-0.01
delta-BHC	4.77	4.77	4.67	4.87	0.00
gamma-BHC (Lindane)	4.33	4.32	4.22	4.42	-0.01
Heptachlor	4.91	4.91	4.81	5.01	0.00
Aldrin	5.26	5.25	5.15	5.35	-0.01
Heptachlor epoxide	5.68	5.68	5.58	5.78	0.00
Endosulfan I	6.07	6.07	5.97	6.17	0.00
Dieldrin	6.34	6.34	6.24	6.44	0.00
4,4'-DDE	6.19	6.19	6.09	6.29	0.00
Endrin	6.57	6.57	6.47	6.67	0.00
Endosulfan II	6.79	6.79	6.69	6.89	0.00
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
Endosulfan sulfate	7.16	7.15	7.05	7.25	-0.01
4,4'-DDT	7.02	7.02	6.92	7.12	0.00
Methoxychlor	7.50	7.50	7.40	7.60	0.00
Endrin ketone	7.64	7.64	7.54	7.74	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.00
alpha-Chlordane	6.02	6.02	5.92	6.12	0.00
gamma-Chlordane	5.94	5.94	5.84	6.04	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG NO.: Q1421

Continuing Calib Date: 02/28/2025 Initial Calibration Date(s): 02/21/2025 02/21/2025

Continuing Calib Time: 14:33 Initial Calibration Time(s): 10:56 11:51

GC Column: ZB-MR2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	7.91	7.90	7.80	8.00	-0.01
Tetrachloro-m-xylene	2.77	2.77	2.67	2.87	0.00
alpha-BHC	3.27	3.27	3.17	3.37	0.00
beta-BHC	3.90	3.90	3.80	4.00	0.00
delta-BHC	4.13	4.13	4.03	4.23	0.00
gamma-BHC (Lindane)	3.60	3.60	3.50	3.70	0.00
Heptachlor	3.94	3.94	3.84	4.04	0.00
Aldrin	4.22	4.22	4.12	4.32	0.00
Heptachlor epoxide	4.72	4.72	4.62	4.82	0.00
Endosulfan I	5.09	5.09	4.99	5.19	0.00
Dieldrin	5.36	5.36	5.26	5.46	0.00
4,4'-DDE	5.23	5.22	5.12	5.32	0.00
Endrin	5.63	5.63	5.53	5.73	0.00
Endosulfan II	5.93	5.93	5.83	6.03	0.00
4,4'-DDD	5.78	5.78	5.68	5.88	0.00
Endosulfan sulfate	6.33	6.33	6.23	6.43	0.00
4,4'-DDT	6.03	6.03	5.93	6.13	0.00
Methoxychlor	6.61	6.61	6.51	6.71	0.00
Endrin ketone	6.84	6.83	6.73	6.93	-0.01
Endrin aldehyde	6.11	6.11	6.01	6.21	0.00
alpha-Chlordane	5.04	5.04	4.94	5.14	0.00
gamma-Chlordane	4.97	4.97	4.87	5.07	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG NO.: Q1421

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 02/21/2025 02/21/2025

Client Sample No.: CCAL03 Date Analyzed: 02/28/2025

Lab Sample No.: PSTDCCC050 Data File : PL094460.D Time Analyzed: 14:33

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	6.709	6.606	6.806	57.250	50.000	14.5
4,4'-DDE	6.191	6.088	6.288	50.270	50.000	0.5
4,4'-DDT	7.022	6.919	7.119	45.250	50.000	-9.5
Aldrin	5.256	5.153	5.353	48.560	50.000	-2.9
alpha-BHC	3.994	3.891	4.091	50.630	50.000	1.3
alpha-Chlordane	6.018	5.915	6.115	47.920	50.000	-4.2
beta-BHC	4.525	4.422	4.622	48.400	50.000	-3.2
Decachlorobiphenyl	9.054	8.949	9.149	44.200	50.000	-11.6
delta-BHC	4.772	4.669	4.869	49.970	50.000	-0.1
Dieldrin	6.343	6.240	6.440	47.990	50.000	-4.0
Endosulfan I	6.068	5.965	6.165	47.230	50.000	-5.5
Endosulfan II	6.793	6.690	6.890	45.270	50.000	-9.5
Endosulfan sulfate	7.158	7.054	7.254	46.180	50.000	-7.6
Endrin	6.571	6.470	6.670	42.120	50.000	-15.8
Endrin aldehyde	6.924	6.820	7.020	46.970	50.000	-6.1
Endrin ketone	7.643	7.539	7.739	47.050	50.000	-5.9
gamma-BHC (Lindane)	4.327	4.224	4.424	49.490	50.000	-1.0
gamma-Chlordane	5.939	5.835	6.035	47.470	50.000	-5.1
Heptachlor	4.914	4.812	5.012	48.750	50.000	-2.5
Heptachlor epoxide	5.682	5.579	5.779	49.430	50.000	-1.1
Methoxychlor	7.499	7.396	7.596	44.990	50.000	-10.0
Tetrachloro-m-xylene	3.538	3.435	3.635	51.090	50.000	2.2



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

CALIBRATION VERIFICATION SUMMARY

Contract: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG NO.: Q1421

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 02/21/2025 02/21/2025

Client Sample No.: CCAL03 Date Analyzed: 02/28/2025

Lab Sample No.: PSTDCCC050 Data File : PL094460.D Time Analyzed: 14:33

COMPOUND	RT	RT WINDOW		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
4,4'-DDD	5.781	5.679	5.879	55.080	50.000	10.2
4,4'-DDE	5.225	5.124	5.324	50.810	50.000	1.6
4,4'-DDT	6.031	5.929	6.129	44.820	50.000	-10.4
Aldrin	4.221	4.119	4.319	51.370	50.000	2.7
alpha-BHC	3.274	3.172	3.372	52.190	50.000	4.4
alpha-Chlordane	5.037	4.935	5.135	48.490	50.000	-3.0
beta-BHC	3.904	3.803	4.003	51.620	50.000	3.2
Decachlorobiphenyl	7.907	7.804	8.004	40.950	50.000	-18.1
delta-BHC	4.133	4.030	4.230	52.150	50.000	4.3
Dieldrin	5.358	5.256	5.456	49.890	50.000	-0.2
Endosulfan I	5.093	4.991	5.191	40.720	50.000	-18.6
Endosulfan II	5.927	5.826	6.026	49.840	50.000	-0.3
Endosulfan sulfate	6.331	6.228	6.428	48.210	50.000	-3.6
Endrin	5.632	5.531	5.731	54.660	50.000	9.3
Endrin aldehyde	6.108	6.006	6.206	46.970	50.000	-6.1
Endrin ketone	6.836	6.733	6.933	48.030	50.000	-3.9
gamma-BHC (Lindane)	3.604	3.502	3.702	52.200	50.000	4.4
gamma-Chlordane	4.974	4.872	5.072	49.030	50.000	-1.9
Heptachlor	3.942	3.840	4.040	49.940	50.000	-0.1
Heptachlor epoxide	4.724	4.622	4.822	49.550	50.000	-0.9
Methoxychlor	6.607	6.505	6.705	44.750	50.000	-10.5
Tetrachloro-m-xylene	2.771	2.670	2.870	53.100	50.000	6.2

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022825\
 Data File : PL094460.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Feb 2025 14:33
 Operator : AR\AJ
 Sample : PSTDCCC050
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

PSTDCCC050

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 03/03/2025

Supervised By :mohammad ahmed 03/07/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 03 00:51:26 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
 Quant Title : GC Extractables
 QLast Update : Fri Feb 21 14:52:19 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 x0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
1)	SA Tetrachlo...	3.538	2.771	129.7E6	169.5E6	51.089	53.101
28)	SA Decachlor...	9.054	7.907	94024641	157.5E6	44.200	40.949
Target Compounds							
2)	A alpha-BHC	3.994	3.274	191.5E6	256.5E6	50.634	52.193
3)	MA gamma-BHC...	4.327	3.604	182.9E6	245.9E6	49.494	52.198
4)	MA Heptachlor	4.914	3.942	165.3E6	235.7E6	48.749	49.938
5)	MB Aldrin	5.256	4.221	166.6E6	237.3E6	48.557	51.369
6)	B beta-BHC	4.525	3.904	77292058	102.7E6	48.401	51.621
7)	B delta-BHC	4.772	4.133	176.8E6	247.0E6	49.966	52.148
8)	B Heptachlo...	5.682	4.724	148.9E6	210.9E6	49.427	49.555
9)	A Endosulfan I	6.068	5.093	129.8E6	162.3E6	47.228	40.723
10)	B gamma-Chl...	5.939	4.974	139.4E6	212.7E6	47.466	49.026
11)	B alpha-Chl...	6.018	5.037	138.8E6	209.4E6	47.919	48.491
12)	B 4,4'-DDE	6.191	5.225	131.3E6	213.4E6	50.275	50.808m
13)	MA Dieldrin	6.343	5.358	136.7E6	218.6E6	47.987	49.893
14)	MA Endrin	6.571	5.632	107.5E6	186.1E6	42.118m	54.661m#
15)	B Endosulfa...	6.793	5.927	114.0E6	186.4E6	45.272	49.843m
16)	A 4,4'-DDD	6.709	5.781	105.9E6	175.4E6	57.252	55.077
17)	MA 4,4'-DDT	7.022	6.031	95033547	159.4E6	45.253	44.821
18)	B Endrin al...	6.924	6.108	91438532	148.4E6	46.969	46.968
19)	B Endosulfa...	7.158	6.331	104.5E6	178.1E6	46.179	48.215
20)	A Methoxychlor	7.499	6.607	49980839	87310186	44.986	44.751
21)	B Endrin ke...	7.643	6.836	118.0E6	205.0E6	47.053	48.033
22)	Mirex	8.115	7.015	89762900	163.6E6	43.504	46.906

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022825\
Data File : PL094460.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2025 14:33
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

PSTDCCC050

Manual Integrations

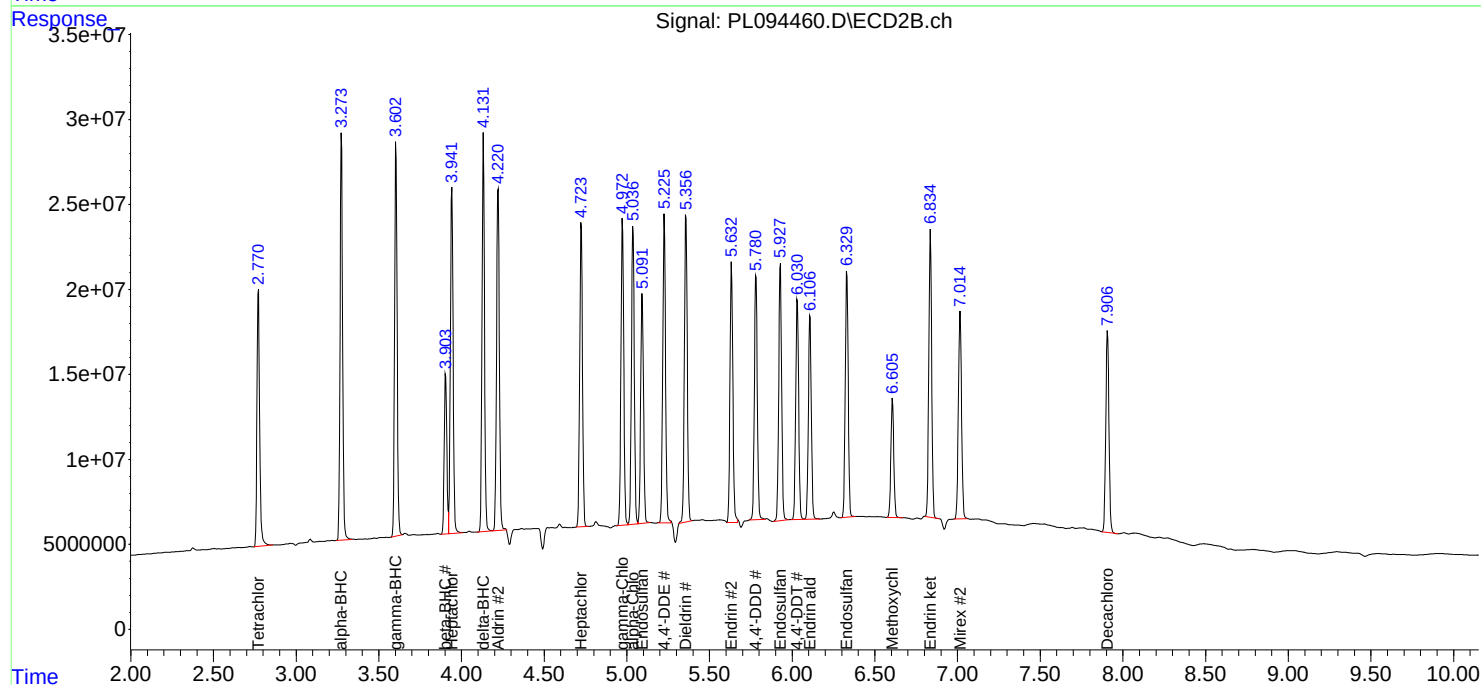
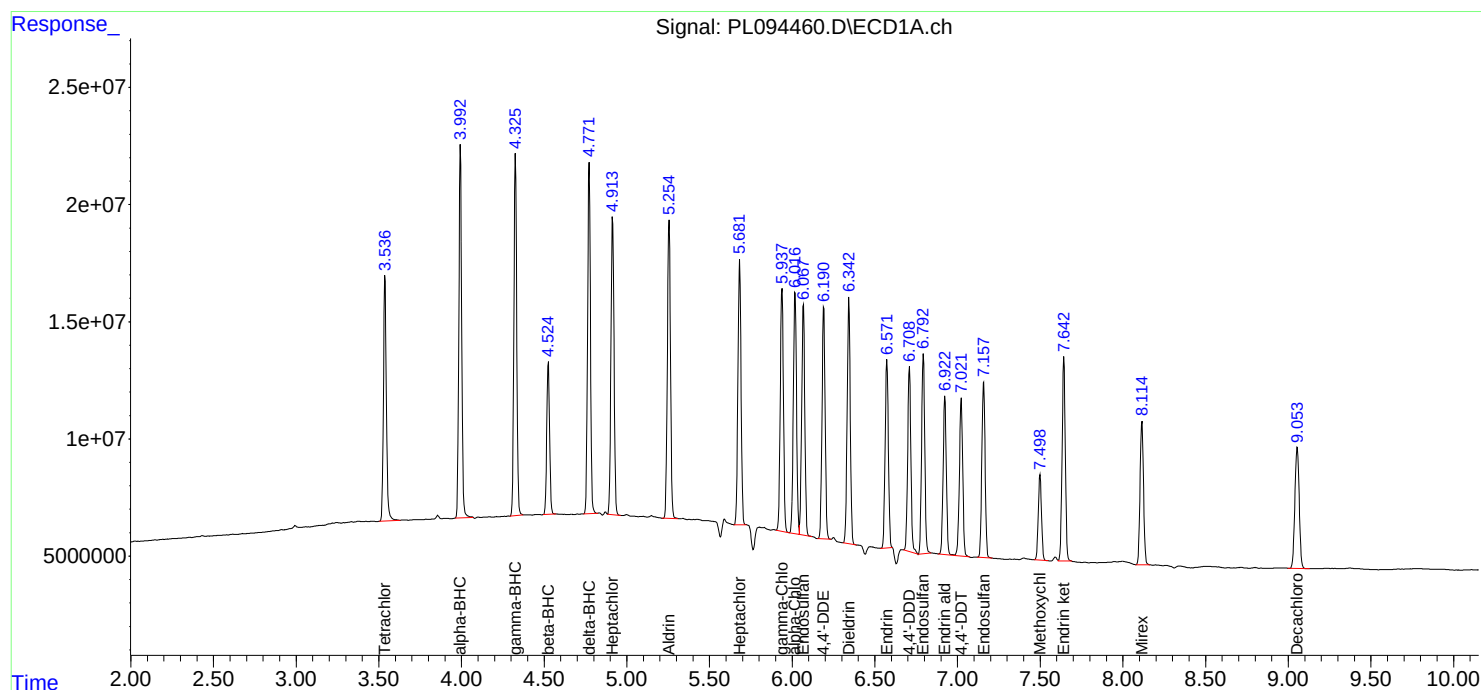
APPROVED

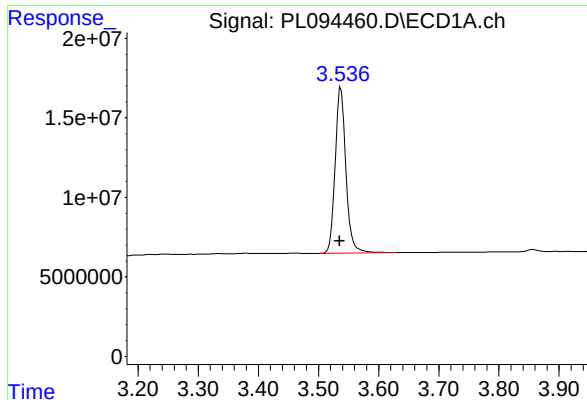
Reviewed By :Abdul Mirza 03/03/2025

Supervised By :mohammad ahmed 03/07/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 03 00:51:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 14:52:19 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 x0.25µm





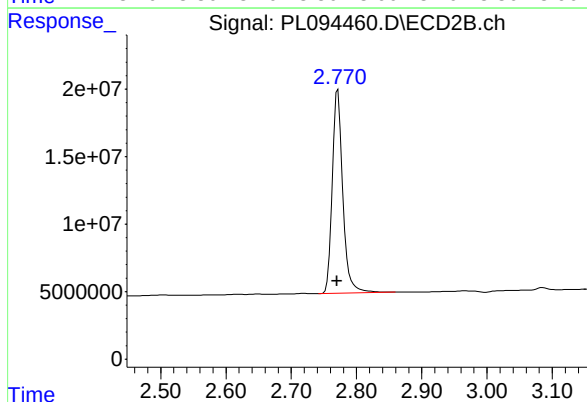
#1 Tetrachloro-m-xylene

R.T.: 3.538 min
Delta R.T.: 0.002 min
Response: 129719681
Conc: 51.09 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

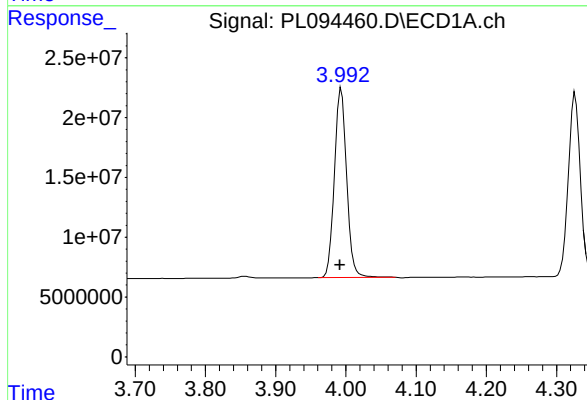
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/03/2025
Supervised By :mohammad ahmed 03/07/2025



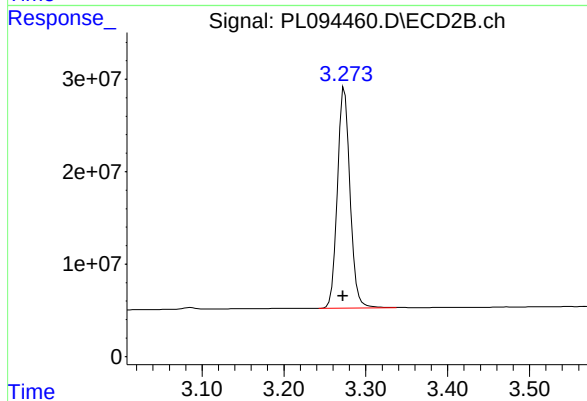
#1 Tetrachloro-m-xylene

R.T.: 2.771 min
Delta R.T.: 0.001 min
Response: 169455201
Conc: 53.10 ng/ml



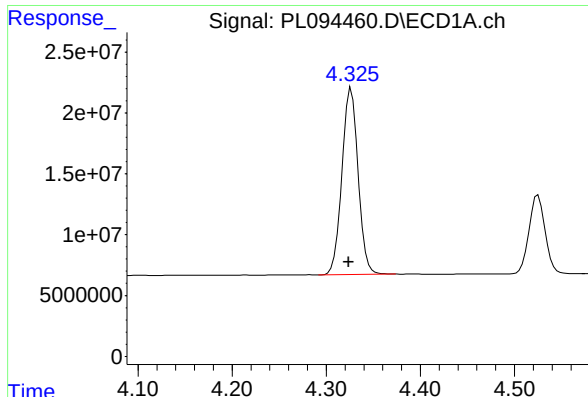
#2 alpha-BHC

R.T.: 3.994 min
Delta R.T.: 0.002 min
Response: 191531225
Conc: 50.63 ng/ml



#2 alpha-BHC

R.T.: 3.274 min
Delta R.T.: 0.002 min
Response: 256515786
Conc: 52.19 ng/ml



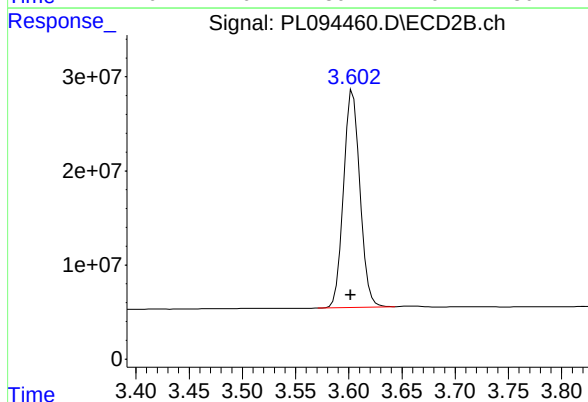
#3 gamma-BHC (Lindane)

R.T.: 4.327 min
Delta R.T.: 0.003 min
Response: 182866960
Conc: 49.49 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

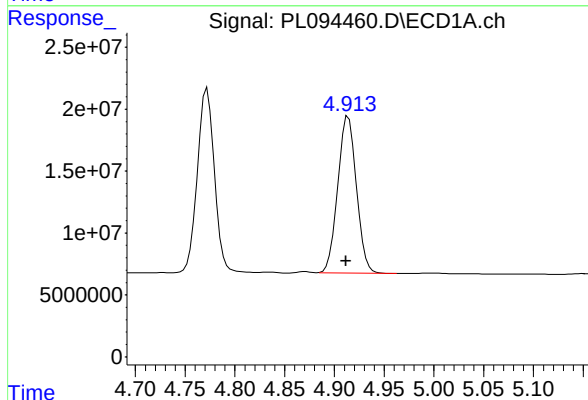
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/03/2025
Supervised By :mohammad ahmed 03/07/2025



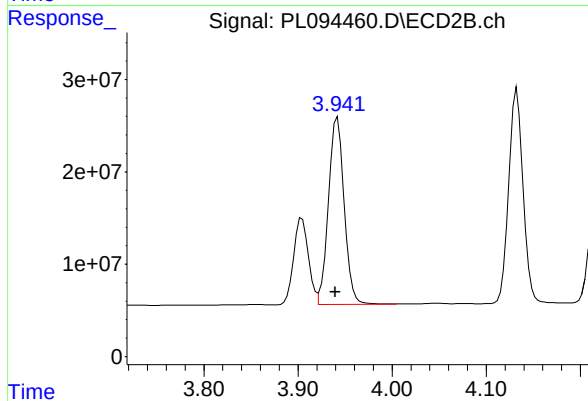
#3 gamma-BHC (Lindane)

R.T.: 3.604 min
Delta R.T.: 0.002 min
Response: 245850410
Conc: 52.20 ng/ml



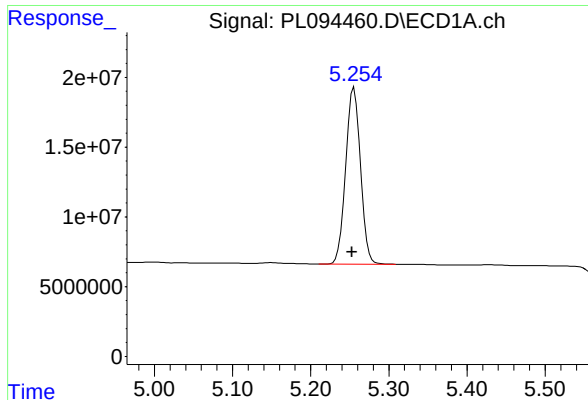
#4 Heptachlor

R.T.: 4.914 min
Delta R.T.: 0.002 min
Response: 165275242
Conc: 48.75 ng/ml



#4 Heptachlor

R.T.: 3.942 min
Delta R.T.: 0.002 min
Response: 235722334
Conc: 49.94 ng/ml



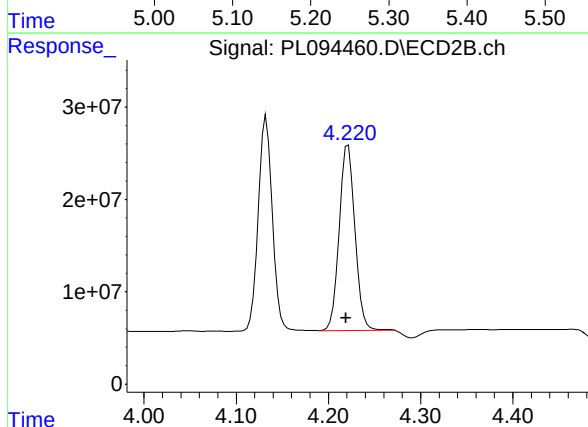
#5 Aldrin

R.T.: 5.256 min
Delta R.T.: 0.002 min
Response: 166634486
Conc: 48.56 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

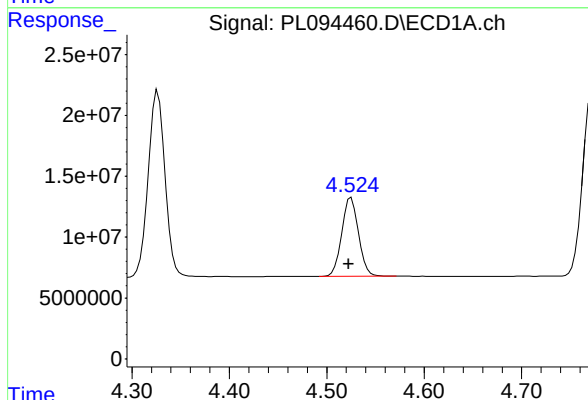
Manual Integrations
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Supervised By :mohammad ahmed 03/07/2025



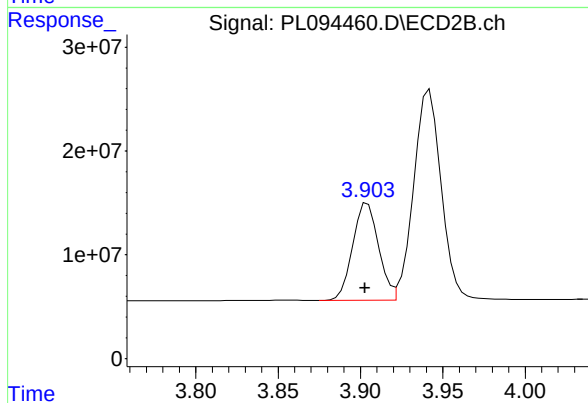
#5 Aldrin

R.T.: 4.221 min
Delta R.T.: 0.002 min
Response: 237346062
Conc: 51.37 ng/ml



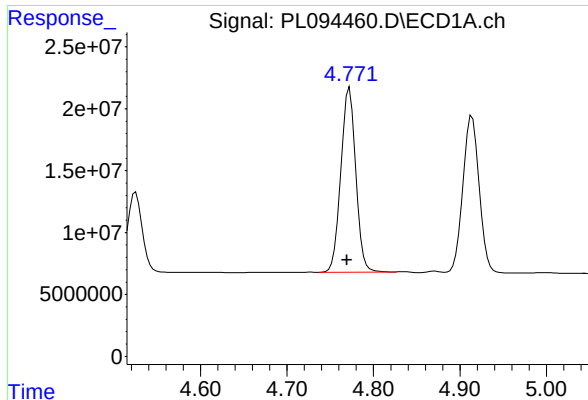
#6 beta-BHC

R.T.: 4.525 min
Delta R.T.: 0.003 min
Response: 77292058
Conc: 48.40 ng/ml



#6 beta-BHC

R.T.: 3.904 min
Delta R.T.: 0.002 min
Response: 102670588
Conc: 51.62 ng/ml



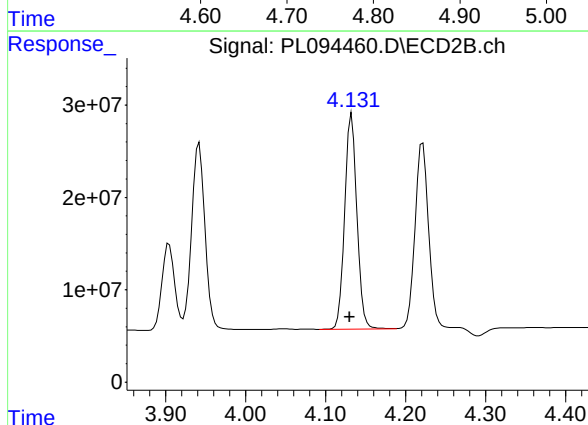
#7 delta-BHC

R.T.: 4.772 min
Delta R.T.: 0.003 min
Response: 176793207
Conc: 49.97 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

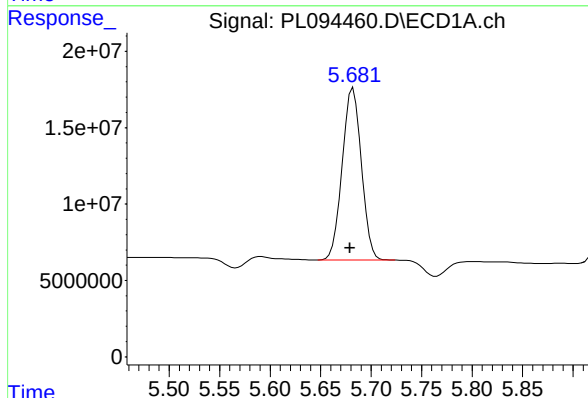
Manual Integrations
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Supervised By :mohammad ahmed 03/07/2025



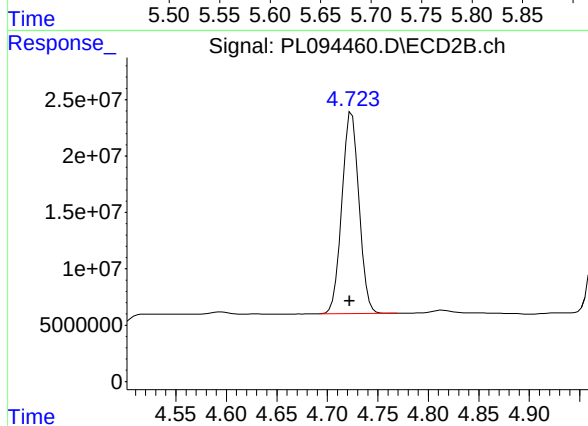
#7 delta-BHC

R.T.: 4.133 min
Delta R.T.: 0.002 min
Response: 246956471
Conc: 52.15 ng/ml



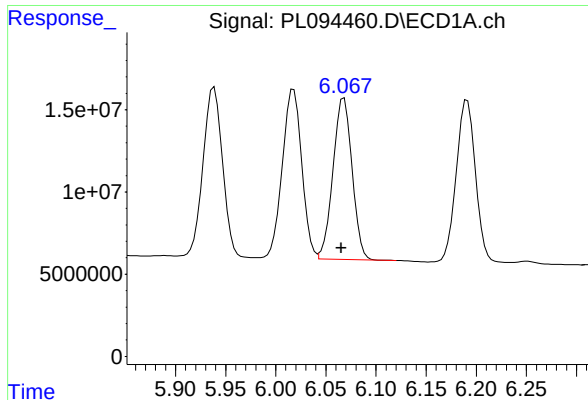
#8 Heptachlor epoxide

R.T.: 5.682 min
Delta R.T.: 0.003 min
Response: 148941898
Conc: 49.43 ng/ml



#8 Heptachlor epoxide

R.T.: 4.724 min
Delta R.T.: 0.002 min
Response: 210875139
Conc: 49.55 ng/ml



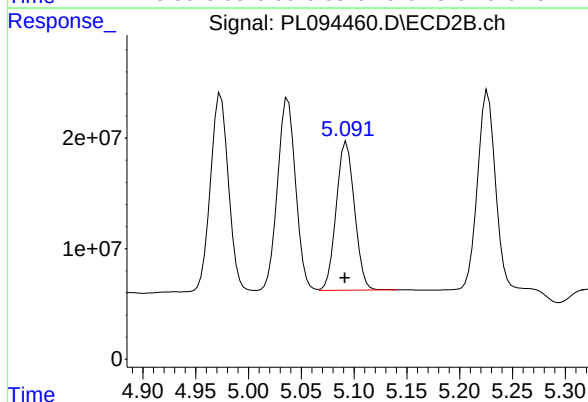
#9 Endosulfan I

R.T.: 6.068 min
Delta R.T.: 0.003 min
Response: 129813342
Conc: 47.23 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

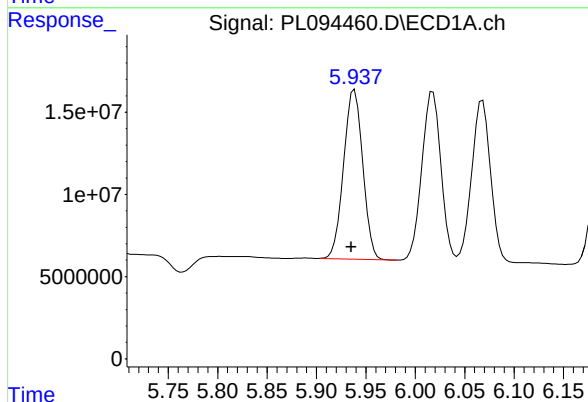
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/03/2025
Supervised By :mohammad ahmed 03/07/2025



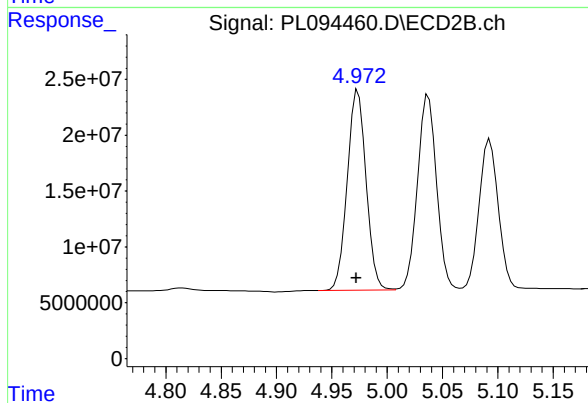
#9 Endosulfan I

R.T.: 5.093 min
Delta R.T.: 0.002 min
Response: 162346449
Conc: 40.72 ng/ml



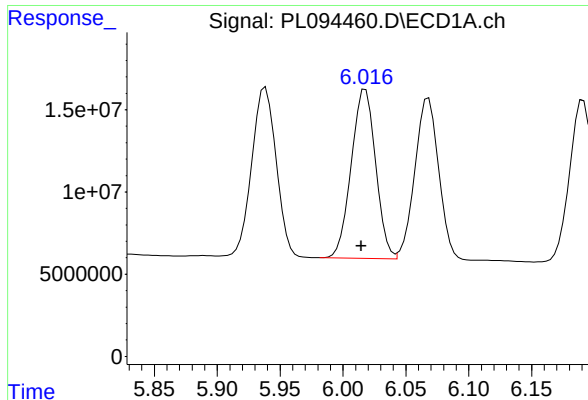
#10 gamma-Chlordane

R.T.: 5.939 min
Delta R.T.: 0.003 min
Response: 139365884
Conc: 47.47 ng/ml



#10 gamma-Chlordane

R.T.: 4.974 min
Delta R.T.: 0.002 min
Response: 212714676
Conc: 49.03 ng/ml



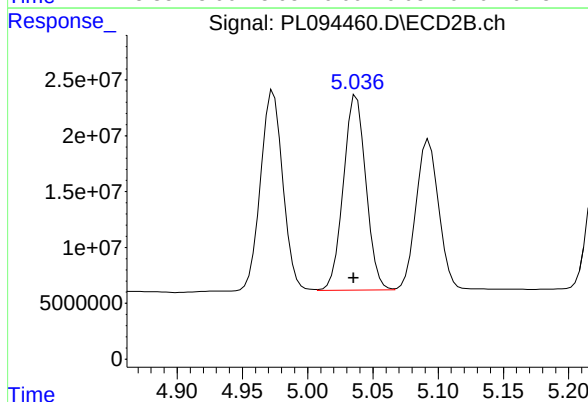
#11 alpha-Chlordane

R.T.: 6.018 min
Delta R.T.: 0.003 min
Response: 138824355
Conc: 47.92 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

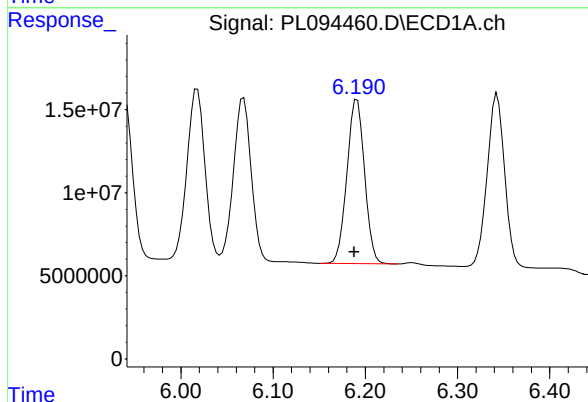
Manual Integrations
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Supervised By :mohammad ahmed 03/07/2025



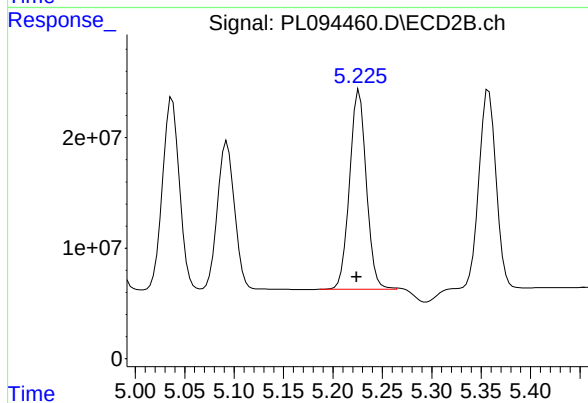
#11 alpha-Chlordane

R.T.: 5.037 min
Delta R.T.: 0.002 min
Response: 209363404
Conc: 48.49 ng/ml



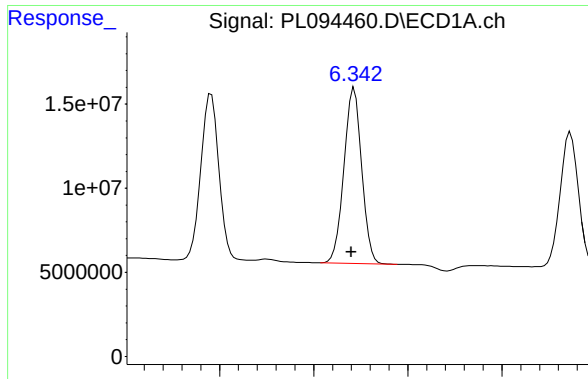
#12 4,4'-DDE

R.T.: 6.191 min
Delta R.T.: 0.003 min
Response: 131303933
Conc: 50.27 ng/ml



#12 4,4'-DDE

R.T.: 5.225 min
Delta R.T.: 0.001 min
Response: 213394297
Conc: 50.81 ng/ml m



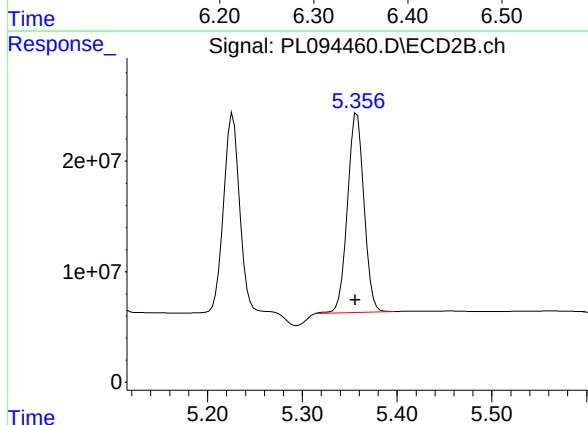
#13 Dieldrin

R.T.: 6.343 min
Delta R.T.: 0.003 min
Response: 136715681
Conc: 47.99 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

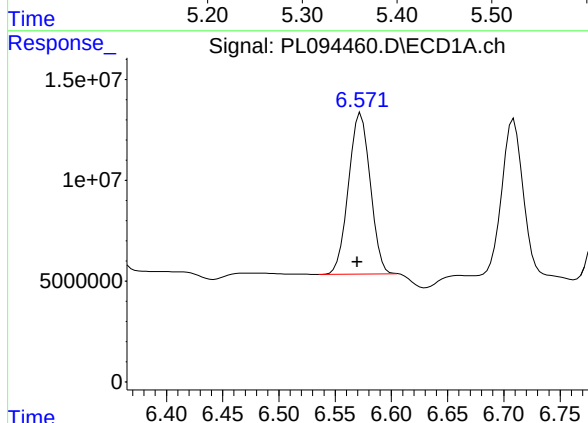
Manual Integrations
APPROVED

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Supervised By :mohammad ahmed 03/07/2025



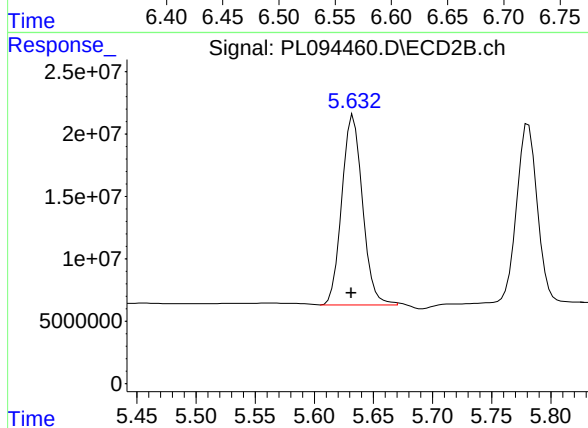
#13 Dieldrin

R.T.: 5.358 min
Delta R.T.: 0.002 min
Response: 218621425
Conc: 49.89 ng/ml



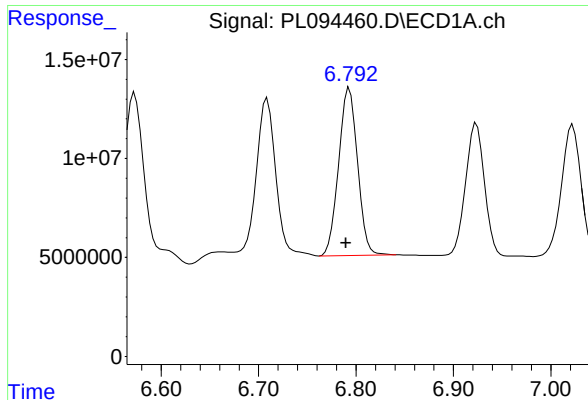
#14 Endrin

R.T.: 6.571 min
Delta R.T.: 0.002 min
Response: 107498323
Conc: 42.12 ng/ml m



#14 Endrin

R.T.: 5.632 min
Delta R.T.: 0.000 min
Response: 186104640
Conc: 54.66 ng/ml m



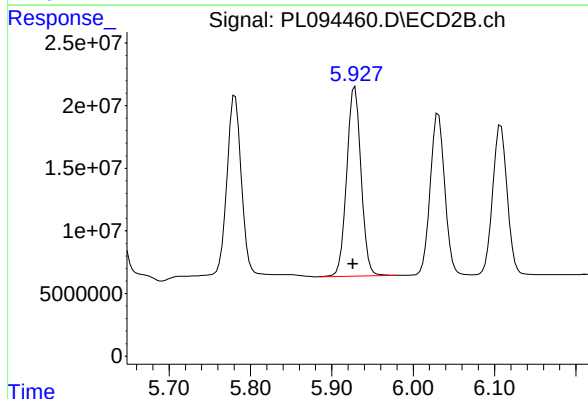
#15 Endosulfan II

R.T.: 6.793 min
Delta R.T.: 0.004 min
Response: 113961210
Conc: 45.27 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

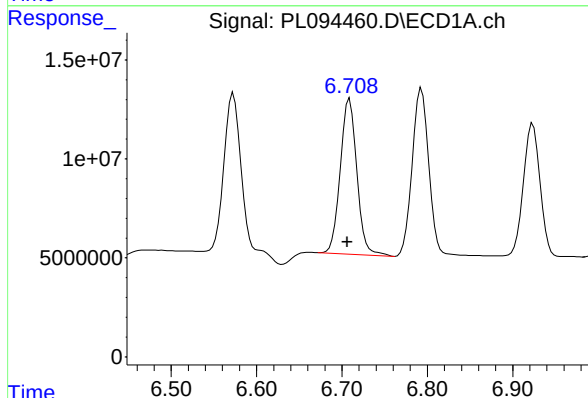
Manual Integrations
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Supervised By :mohammad ahmed 03/07/2025



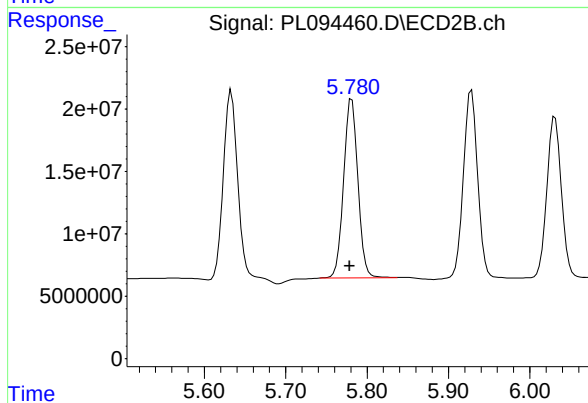
#15 Endosulfan II

R.T.: 5.927 min
Delta R.T.: 0.000 min
Response: 186388784
Conc: 49.84 ng/ml



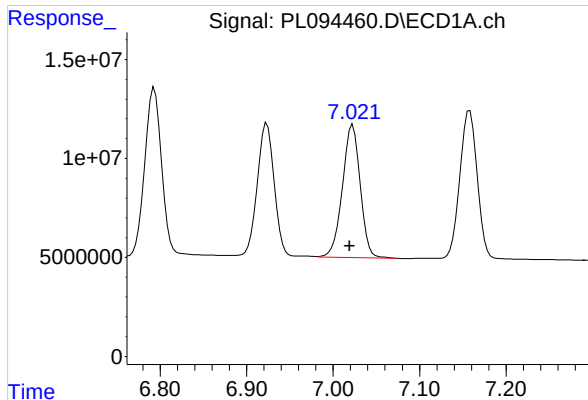
#16 4,4'-DDD

R.T.: 6.709 min
Delta R.T.: 0.003 min
Response: 105902855
Conc: 57.25 ng/ml



#16 4,4'-DDD

R.T.: 5.781 min
Delta R.T.: 0.002 min
Response: 175436451
Conc: 55.08 ng/ml



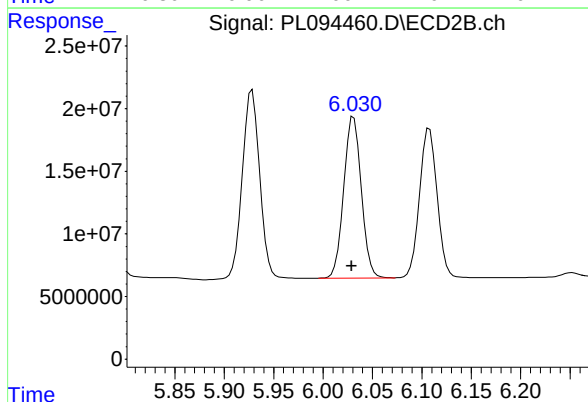
#17 4,4'-DDT

R.T.: 7.022 min
Delta R.T.: 0.004 min
Response: 95033547
Conc: 45.25 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

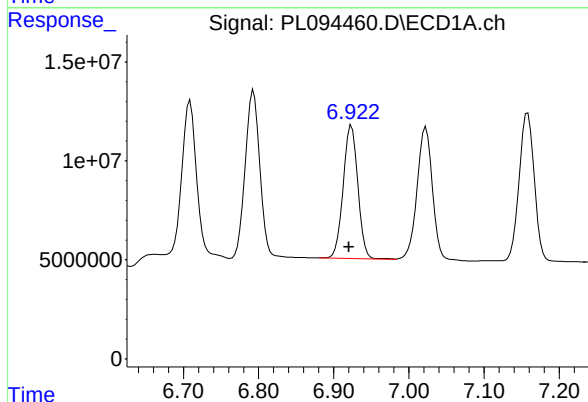
Manual Integrations
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Supervised By :mohammad ahmed 03/07/2025



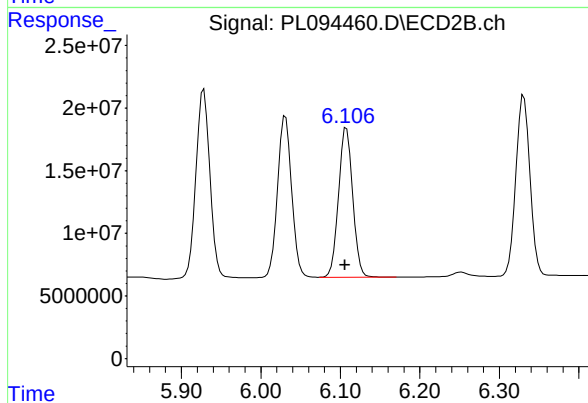
#17 4,4'-DDT

R.T.: 6.031 min
Delta R.T.: 0.002 min
Response: 159429032
Conc: 44.82 ng/ml



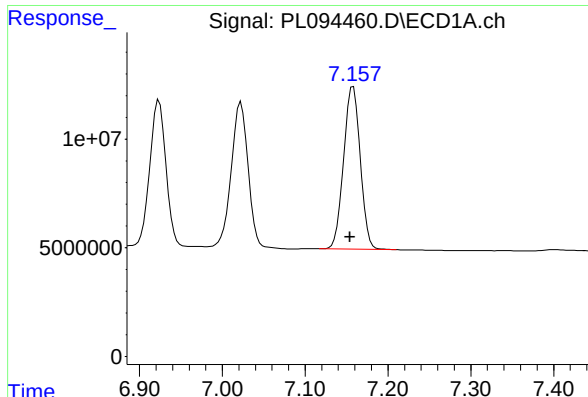
#18 Endrin aldehyde

R.T.: 6.924 min
Delta R.T.: 0.004 min
Response: 91438532
Conc: 46.97 ng/ml



#18 Endrin aldehyde

R.T.: 6.108 min
Delta R.T.: 0.002 min
Response: 148438071
Conc: 46.97 ng/ml



#19 Endosulfan Sulfate

R.T.: 7.158 min
Delta R.T.: 0.004 min
Response: 104540935
Conc: 46.18 ng/ml

Instrument :

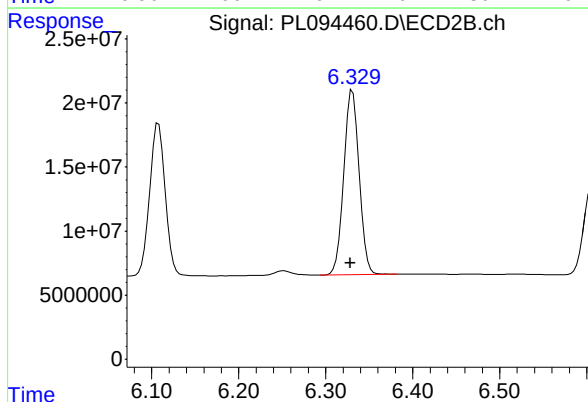
ECD_L

ClientSampleId :

PSTDCCC050

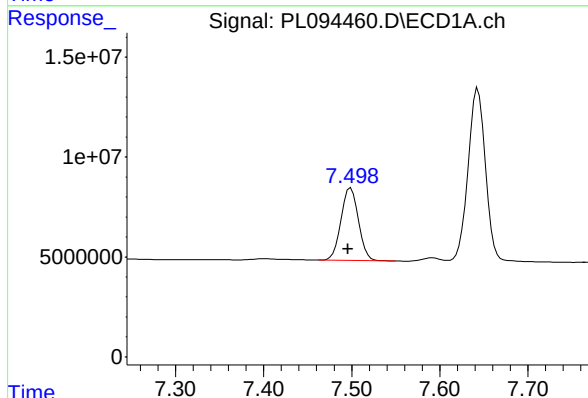
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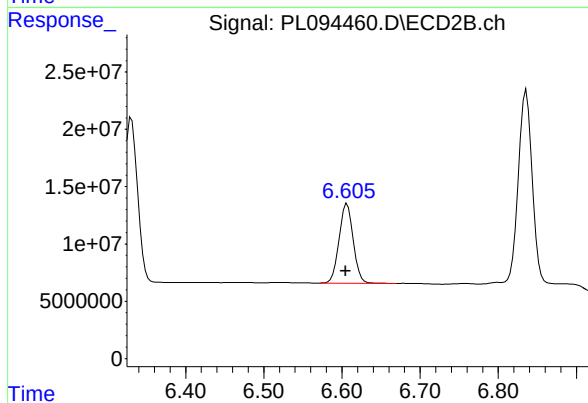
#19 Endosulfan Sulfate

R.T.: 6.331 min
Delta R.T.: 0.002 min
Response: 178087677
Conc: 48.21 ng/ml



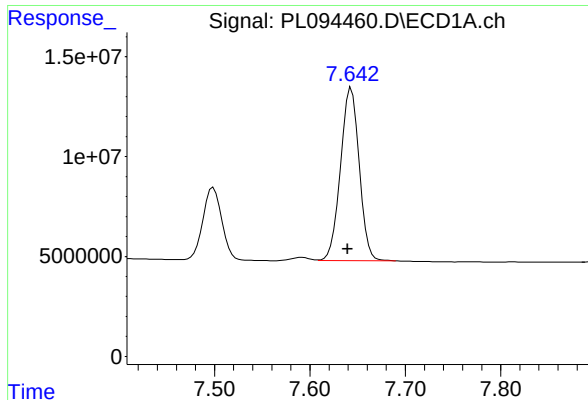
#20 Methoxychlor

R.T.: 7.499 min
Delta R.T.: 0.003 min
Response: 49980839
Conc: 44.99 ng/ml



#20 Methoxychlor

R.T.: 6.607 min
Delta R.T.: 0.002 min
Response: 87310186
Conc: 44.75 ng/ml



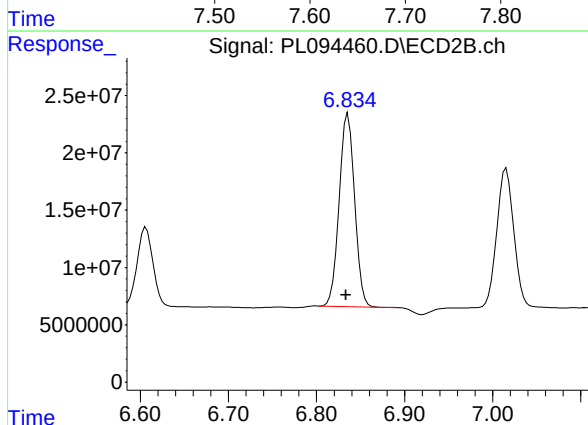
#21 Endrin ketone

R.T.: 7.643 min
Delta R.T.: 0.004 min
Response: 117957553
Conc: 47.05 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

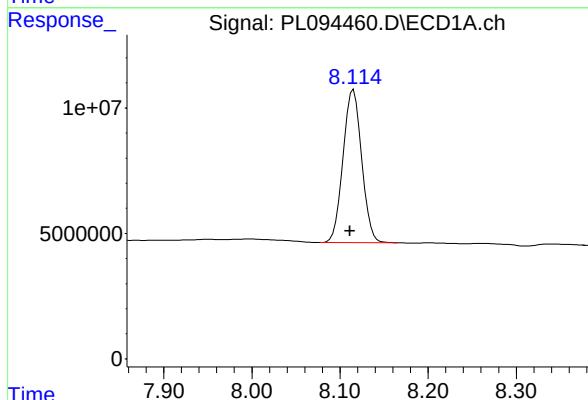
Manual Integrations
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Supervised By :mohammad ahmed 03/07/2025



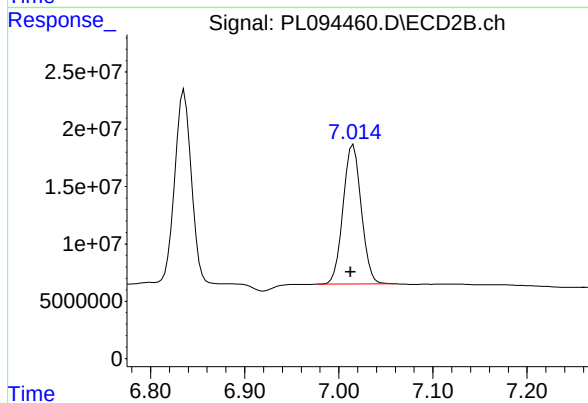
#21 Endrin ketone

R.T.: 6.836 min
Delta R.T.: 0.002 min
Response: 204981958
Conc: 48.03 ng/ml



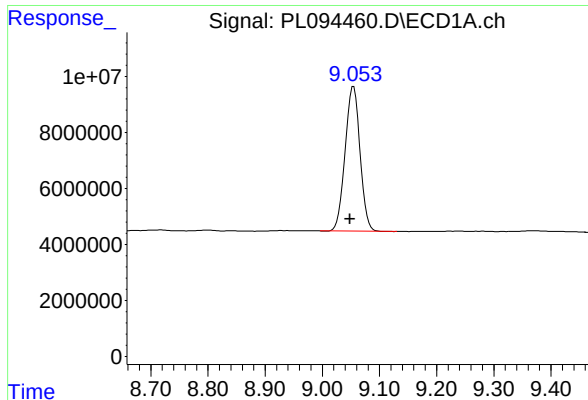
#22 Mirex

R.T.: 8.115 min
Delta R.T.: 0.004 min
Response: 89762900
Conc: 43.50 ng/ml



#22 Mirex

R.T.: 7.015 min
Delta R.T.: 0.003 min
Response: 163561275
Conc: 46.91 ng/ml



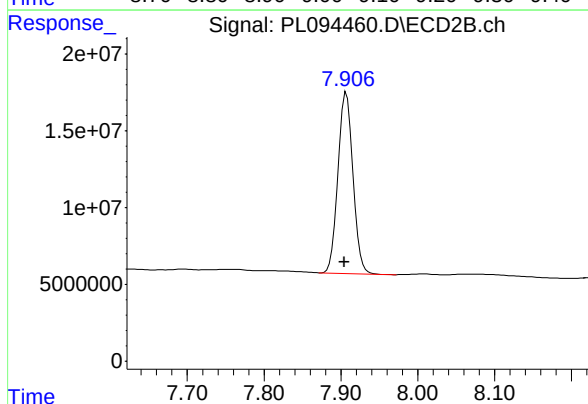
#28 Decachlorobiphenyl

R.T.: 9.054 min
Delta R.T.: 0.006 min
Response: 94024641
Conc: 44.20 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

Manual Integrations
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#28 Decachlorobiphenyl

R.T.: 7.907 min
Delta R.T.: 0.003 min
Response: 157477018
Conc: 40.95 ng/ml



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

CALIBRATION VERIFICATION SUMMARY

Contract: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG NO.: Q1421

Continuing Calib Date: 02/28/2025 Initial Calibration Date(s): 02/21/2025 02/21/2025

Continuing Calib Time: 15:14 Initial Calibration Time(s): 10:56 11:51

GC Column: ZB-MR1 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	9.05	9.05	8.95	9.15	0.00
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
alpha-BHC	3.99	3.99	3.89	4.09	0.00
beta-BHC	4.53	4.52	4.42	4.62	-0.01
delta-BHC	4.77	4.77	4.67	4.87	0.00
gamma-BHC (Lindane)	4.33	4.32	4.22	4.42	-0.01
Heptachlor	4.92	4.91	4.81	5.01	0.00
Aldrin	5.26	5.25	5.15	5.35	-0.01
Heptachlor epoxide	5.68	5.68	5.58	5.78	0.00
Endosulfan I	6.07	6.07	5.97	6.17	0.00
Dieldrin	6.34	6.34	6.24	6.44	0.00
4,4'-DDE	6.19	6.19	6.09	6.29	0.00
Endrin	6.57	6.57	6.47	6.67	0.00
Endosulfan II	6.79	6.79	6.69	6.89	0.00
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
Endosulfan sulfate	7.16	7.15	7.05	7.25	-0.01
4,4'-DDT	7.02	7.02	6.92	7.12	0.00
Methoxychlor	7.50	7.50	7.40	7.60	0.00
Endrin ketone	7.64	7.64	7.54	7.74	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.00
alpha-Chlordane	6.02	6.02	5.92	6.12	0.00
gamma-Chlordane	5.94	5.94	5.84	6.04	0.00



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG NO.: Q1421

Continuing Calib Date: 02/28/2025 Initial Calibration Date(s): 02/21/2025 02/21/2025

Continuing Calib Time: 15:14 Initial Calibration Time(s): 10:56 11:51

GC Column: ZB-MR2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	7.91	7.90	7.80	8.00	-0.01
Tetrachloro-m-xylene	2.77	2.77	2.67	2.87	0.00
alpha-BHC	3.27	3.27	3.17	3.37	0.00
beta-BHC	3.90	3.90	3.80	4.00	0.00
delta-BHC	4.13	4.13	4.03	4.23	0.00
gamma-BHC (Lindane)	3.60	3.60	3.50	3.70	0.00
Heptachlor	3.94	3.94	3.84	4.04	0.00
Aldrin	4.22	4.22	4.12	4.32	0.00
Heptachlor epoxide	4.72	4.72	4.62	4.82	0.00
Endosulfan I	5.09	5.09	4.99	5.19	0.00
Dieldrin	5.36	5.36	5.26	5.46	0.00
4,4'-DDE	5.23	5.22	5.12	5.32	0.00
Endrin	5.63	5.63	5.53	5.73	0.00
Endosulfan II	5.93	5.93	5.83	6.03	0.00
4,4'-DDD	5.78	5.78	5.68	5.88	0.00
Endosulfan sulfate	6.33	6.33	6.23	6.43	0.00
4,4'-DDT	6.03	6.03	5.93	6.13	0.00
Methoxychlor	6.61	6.61	6.51	6.71	0.00
Endrin ketone	6.84	6.83	6.73	6.93	-0.01
Endrin aldehyde	6.11	6.11	6.01	6.21	0.00
alpha-Chlordane	5.04	5.04	4.94	5.14	0.00
gamma-Chlordane	4.97	4.97	4.87	5.07	0.00



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CALIBRATION VERIFICATION SUMMARY

Contract: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG NO.: Q1421

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 02/21/2025 02/21/2025

Client Sample No.: CCAL04 Date Analyzed: 02/28/2025

Lab Sample No.: PSTDCCC050 Data File : PL094463.D Time Analyzed: 15:14

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	6.709	6.606	6.806	58.490	50.000	17.0
4,4'-DDE	6.192	6.088	6.288	50.580	50.000	1.2
4,4'-DDT	7.023	6.919	7.119	45.290	50.000	-9.4
Aldrin	5.256	5.153	5.353	48.980	50.000	-2.0
alpha-BHC	3.994	3.891	4.091	50.790	50.000	1.6
alpha-Chlordane	6.018	5.915	6.115	48.680	50.000	-2.6
beta-BHC	4.525	4.422	4.622	49.080	50.000	-1.8
Decachlorobiphenyl	9.054	8.949	9.149	45.310	50.000	-9.4
delta-BHC	4.772	4.669	4.869	50.110	50.000	0.2
Dieldrin	6.344	6.240	6.440	48.690	50.000	-2.6
Endosulfan I	6.068	5.965	6.165	48.290	50.000	-3.4
Endosulfan II	6.793	6.690	6.890	46.270	50.000	-7.5
Endosulfan sulfate	7.158	7.054	7.254	47.050	50.000	-5.9
Endrin	6.572	6.470	6.670	42.000	50.000	-16.0
Endrin aldehyde	6.923	6.820	7.020	49.270	50.000	-1.5
Endrin ketone	7.643	7.539	7.739	48.120	50.000	-3.8
gamma-BHC (Lindane)	4.327	4.224	4.424	49.680	50.000	-0.6
gamma-Chlordane	5.938	5.835	6.035	48.200	50.000	-3.6
Heptachlor	4.915	4.812	5.012	48.810	50.000	-2.4
Heptachlor epoxide	5.683	5.579	5.779	50.350	50.000	0.7
Methoxychlor	7.500	7.396	7.596	44.770	50.000	-10.5
Tetrachloro-m-xylene	3.538	3.435	3.635	51.630	50.000	3.3



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

CALIBRATION VERIFICATION SUMMARY

Contract: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG NO.: Q1421

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 02/21/2025 02/21/2025

Client Sample No.: CCAL04 Date Analyzed: 02/28/2025

Lab Sample No.: PSTDCCC050 Data File : PL094463.D Time Analyzed: 15:14

COMPOUND	RT	RT WINDOW		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
4,4'-DDD	5.781	5.679	5.879	57.490	50.000	15.0
4,4'-DDE	5.225	5.124	5.324	51.500	50.000	3.0
4,4'-DDT	6.031	5.929	6.129	46.020	50.000	-8.0
Aldrin	4.221	4.119	4.319	52.000	50.000	4.0
alpha-BHC	3.274	3.172	3.372	52.990	50.000	6.0
alpha-Chlordane	5.037	4.935	5.135	49.970	50.000	-0.1
beta-BHC	3.904	3.803	4.003	52.450	50.000	4.9
Decachlorobiphenyl	7.907	7.804	8.004	44.400	50.000	-11.2
delta-BHC	4.133	4.030	4.230	52.820	50.000	5.6
Dieldrin	5.358	5.256	5.456	50.420	50.000	0.8
Endosulfan I	5.093	4.991	5.191	40.290	50.000	-19.4
Endosulfan II	5.927	5.826	6.026	52.260	50.000	4.5
Endosulfan sulfate	6.330	6.228	6.428	49.160	50.000	-1.7
Endrin	5.633	5.531	5.731	54.670	50.000	9.3
Endrin aldehyde	6.107	6.006	6.206	49.530	50.000	-0.9
Endrin ketone	6.836	6.733	6.933	50.710	50.000	1.4
gamma-BHC (Lindane)	3.604	3.502	3.702	53.000	50.000	6.0
gamma-Chlordane	4.974	4.872	5.072	50.610	50.000	1.2
Heptachlor	3.942	3.840	4.040	50.400	50.000	0.8
Heptachlor epoxide	4.724	4.622	4.822	51.140	50.000	2.3
Methoxychlor	6.606	6.505	6.705	44.670	50.000	-10.7
Tetrachloro-m-xylene	2.771	2.670	2.870	53.850	50.000	7.7

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022825\
 Data File : PL094463.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Feb 2025 15:14
 Operator : AR\AJ
 Sample : PSTDCCC050
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

PSTDCCC050

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 03/03/2025

Supervised By :mohammad ahmed 03/07/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 03 00:52:51 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
 Quant Title : GC Extractables
 QLast Update : Fri Feb 21 14:52:19 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 x0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.538	2.771	131.1E6	171.8E6	51.626	53.848
28) SA Decachlor...	9.054	7.907	96391836	170.7E6	45.313	44.397
Target Compounds						
2) A alpha-BHC	3.994	3.274	192.1E6	260.4E6	50.793	52.989
3) MA gamma-BHC...	4.327	3.604	183.5E6	249.6E6	49.678	52.999
4) MA Heptachlor	4.915	3.942	165.5E6	237.9E6	48.814	50.398
5) MB Aldrin	5.256	4.221	168.1E6	240.3E6	48.981	52.004
6) B beta-BHC	4.525	3.904	78380288	104.3E6	49.083	52.447
7) B delta-BHC	4.772	4.133	177.3E6	250.1E6	50.109	52.819
8) B Heptachlo...	5.683	4.724	151.7E6	217.6E6	50.346	51.139
9) A Endosulfan I	6.068	5.093	132.7E6	160.6E6	48.289	40.291
10) B gamma-Chl...	5.938	4.974	141.5E6	219.6E6	48.201	50.615
11) B alpha-Chl...	6.018	5.037	141.0E6	215.8E6	48.685	49.970
12) B 4,4'-DDE	6.192	5.225	132.1E6	216.3E6	50.582	51.502m
13) MA Dieldrin	6.344	5.358	138.7E6	220.9E6	48.693	50.424
14) MA Endrin	6.572	5.633	107.2E6	186.1E6	42.003m	54.670 #
15) B Endosulfa...	6.793	5.927	116.5E6	195.4E6	46.275	52.256m
16) A 4,4'-DDD	6.709	5.781	108.2E6	183.1E6	58.485	57.486
17) MA 4,4'-DDT	7.023	6.031	95114327	163.7E6	45.292	46.022
18) B Endrin al...	6.923	6.107	95918268	156.5E6	49.270	49.527
19) B Endosulfa...	7.158	6.330	106.5E6	181.6E6	47.053	49.163
20) A Methoxychlor	7.500	6.606	49741663	87158383	44.770	44.673
21) B Endrin ke...	7.643	6.836	120.6E6	216.4E6	48.117	50.708
22) Mirex	8.116	7.015	91131333	170.7E6	44.168	48.960

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022825\
Data File : PL094463.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2025 15:14
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

PSTDCCC050

Manual Integrations

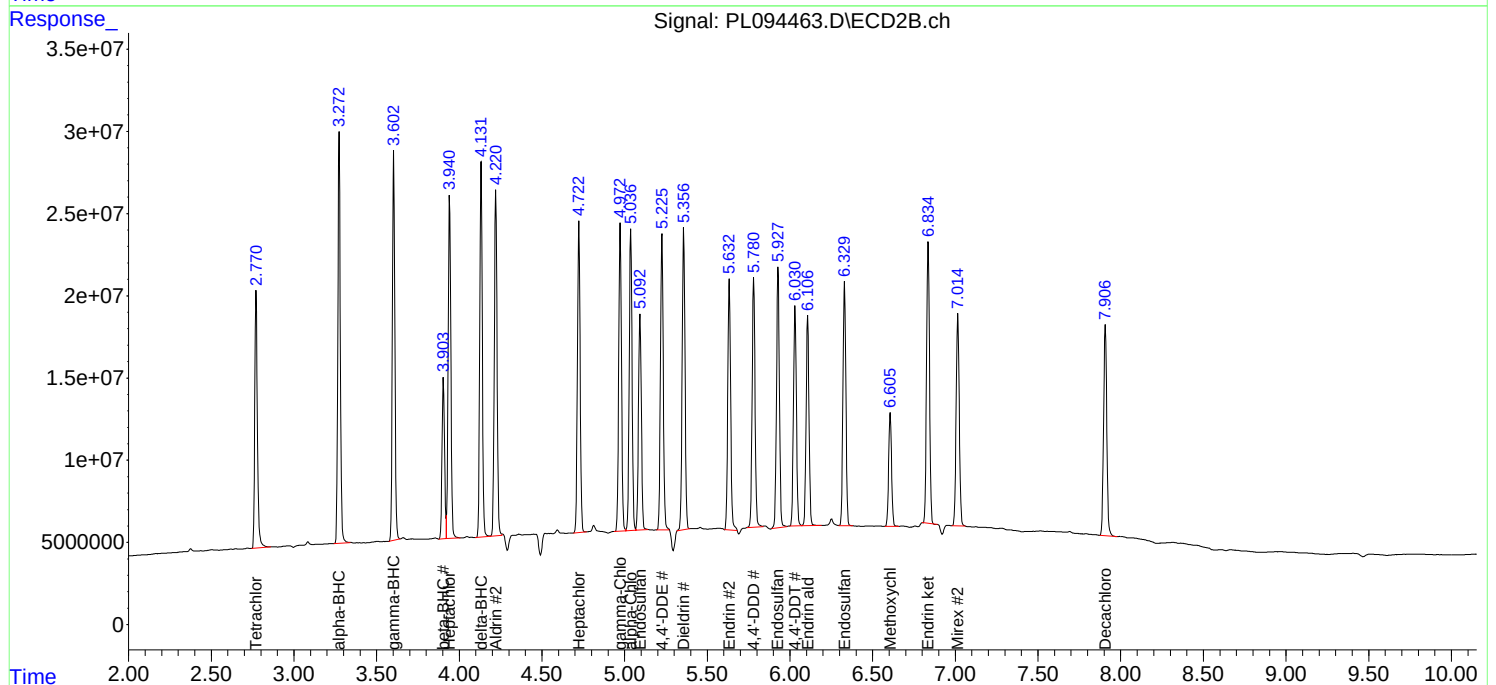
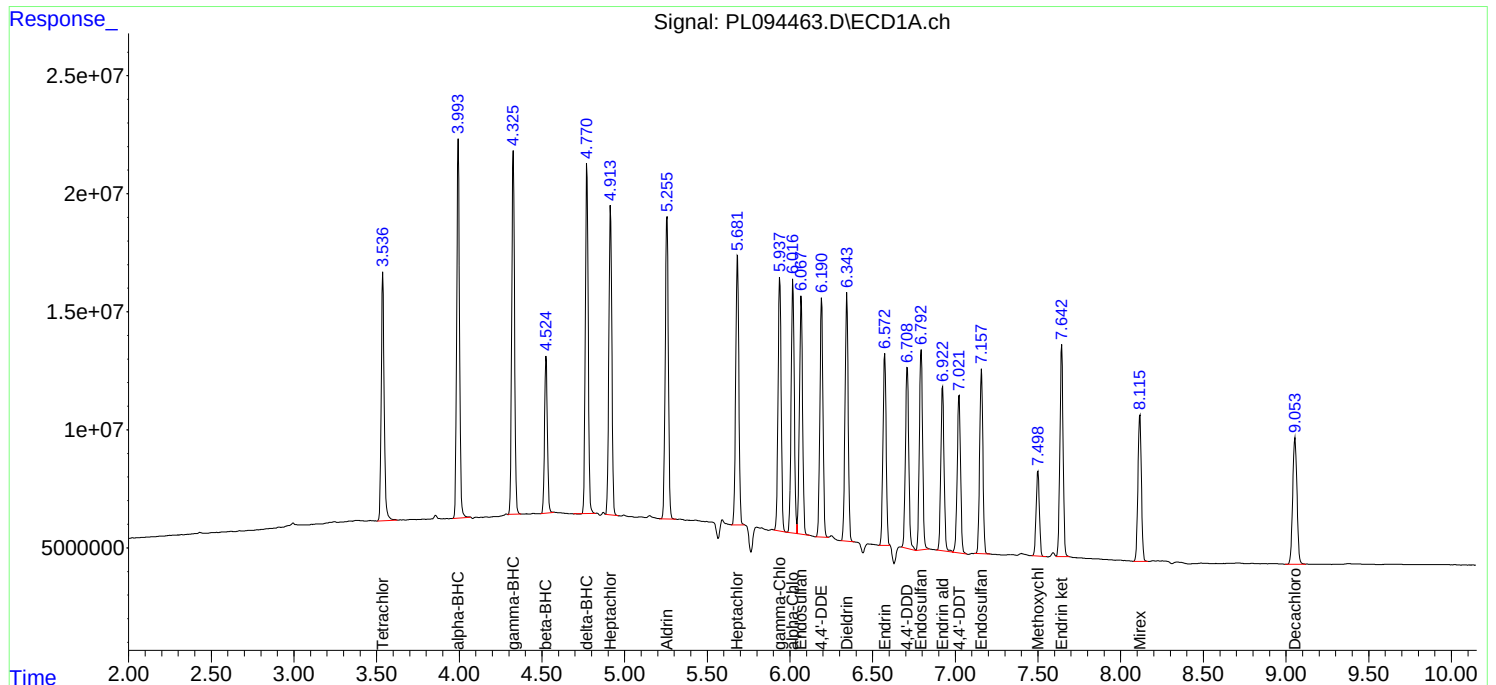
APPROVED

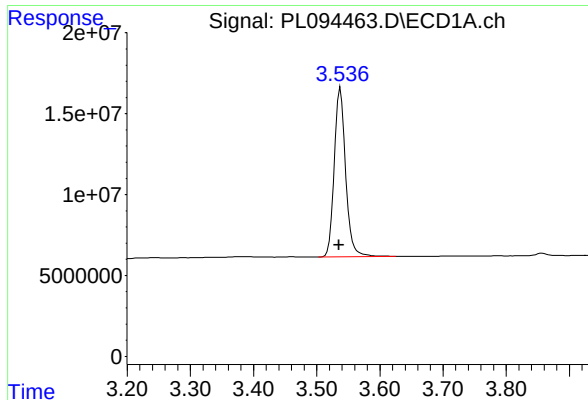
Reviewed By :Abdul Mirza 03/03/2025

Supervised By :mohammad ahmed 03/07/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 03 00:52:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 14:52:19 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 x0.25µm





#1 Tetrachloro-m-xylene

R.T.: 3.538 min
Delta R.T.: 0.003 min
Response: 131083260
Conc: 51.63 ng/ml

Instrument :

ECD_L

ClientSampleId :

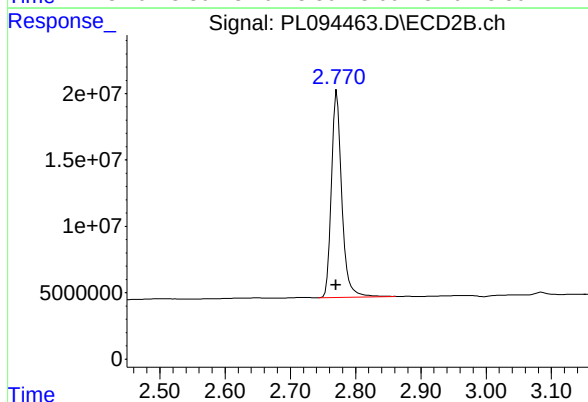
PSTDCCC050

Manual Integrations

APPROVED

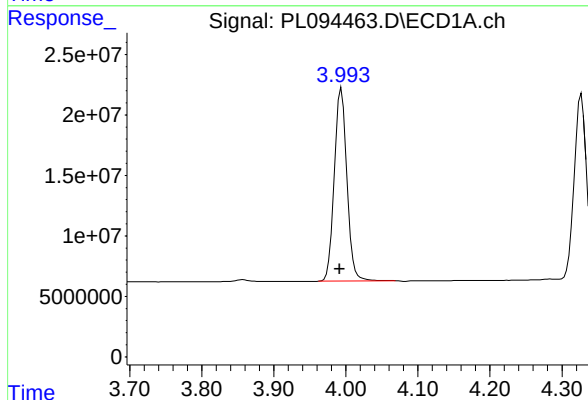
Reviewed By :Abdul Mirza 03/03/2025

Supervised By :mohammad ahmed 03/07/2025



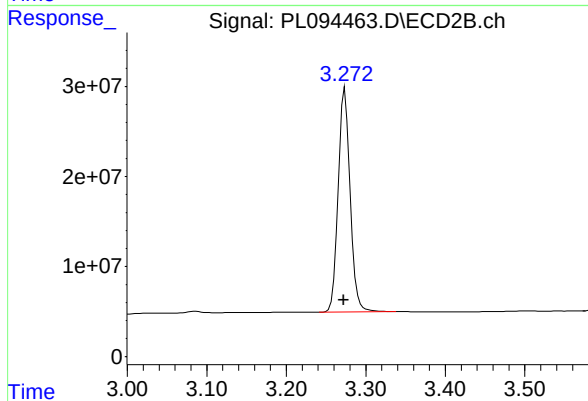
#1 Tetrachloro-m-xylene

R.T.: 2.771 min
Delta R.T.: 0.001 min
Response: 171839648
Conc: 53.85 ng/ml



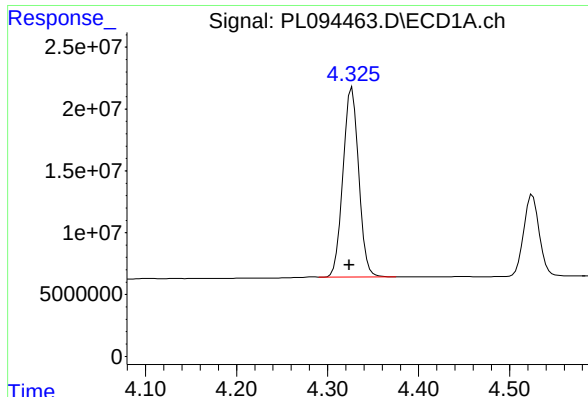
#2 alpha-BHC

R.T.: 3.994 min
Delta R.T.: 0.003 min
Response: 192131459
Conc: 50.79 ng/ml



#2 alpha-BHC

R.T.: 3.274 min
Delta R.T.: 0.002 min
Response: 260431231
Conc: 52.99 ng/ml



#3 gamma-BHC (Lindane)

R.T.: 4.327 min
Delta R.T.: 0.003 min
Response: 183548407
Conc: 49.68 ng/ml

Instrument :

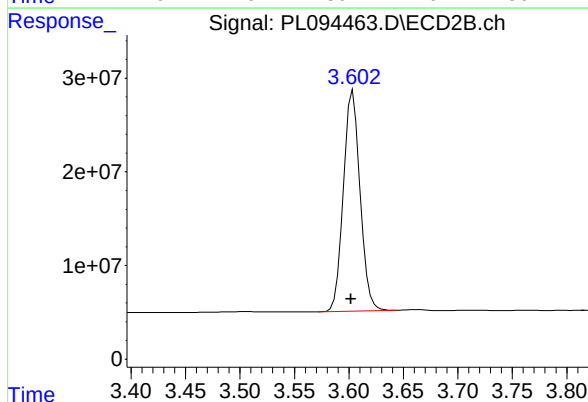
ECD_L

ClientSampleId :

PSTDCCC050

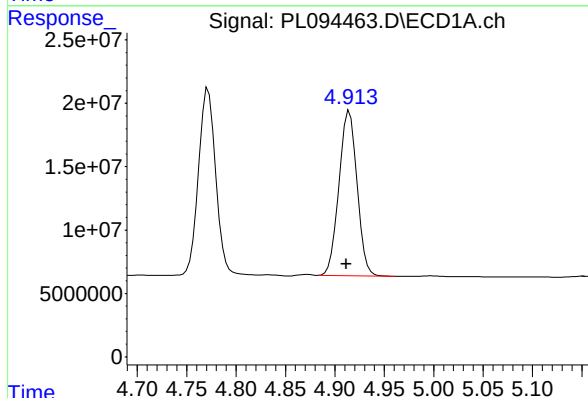
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/03/2025
Supervised By :mohammad ahmed 03/07/2025



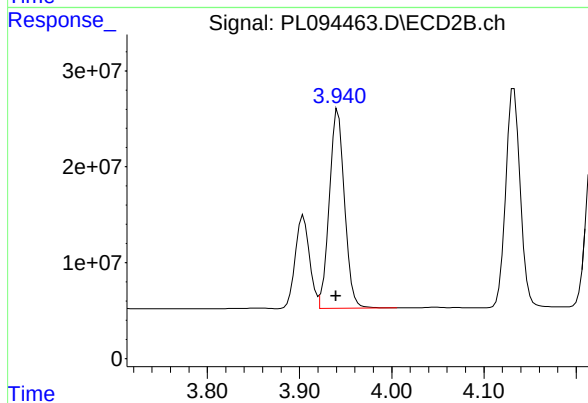
#3 gamma-BHC (Lindane)

R.T.: 3.604 min
Delta R.T.: 0.002 min
Response: 249620862
Conc: 53.00 ng/ml



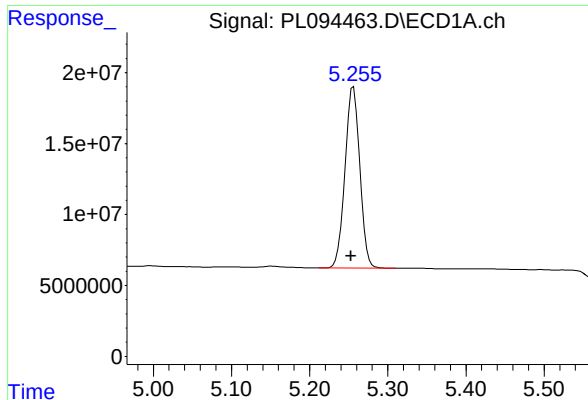
#4 Heptachlor

R.T.: 4.915 min
Delta R.T.: 0.003 min
Response: 165497908
Conc: 48.81 ng/ml



#4 Heptachlor

R.T.: 3.942 min
Delta R.T.: 0.002 min
Response: 237892999
Conc: 50.40 ng/ml



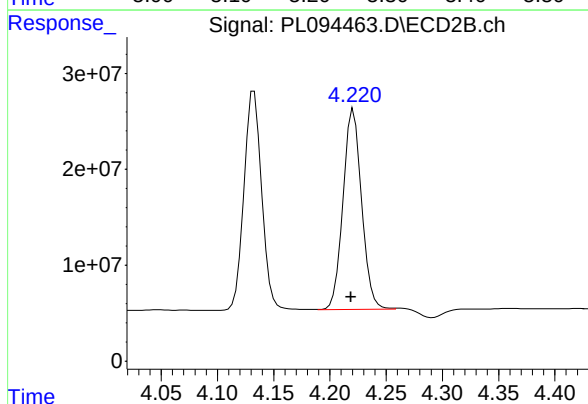
#5 Aldrin

R.T.: 5.256 min
Delta R.T.: 0.003 min
Response: 168091674
Conc: 48.98 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

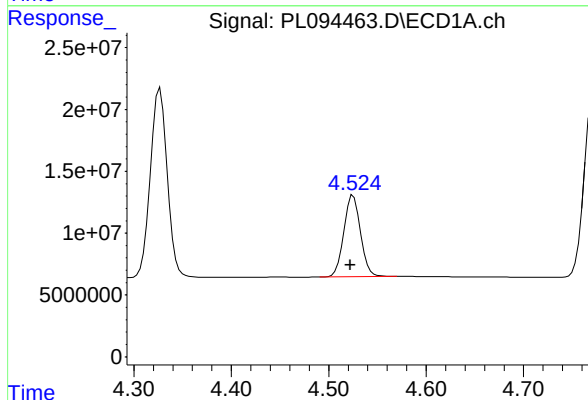
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/03/2025
Supervised By :mohammad ahmed 03/07/2025



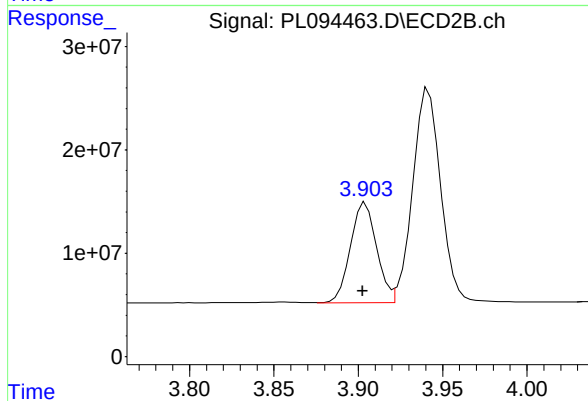
#5 Aldrin

R.T.: 4.221 min
Delta R.T.: 0.002 min
Response: 240277333
Conc: 52.00 ng/ml



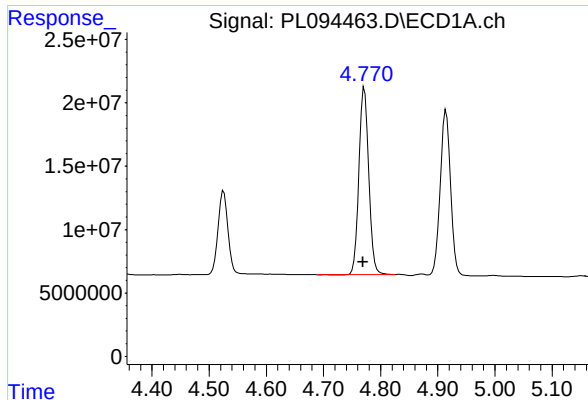
#6 beta-BHC

R.T.: 4.525 min
Delta R.T.: 0.003 min
Response: 78380288
Conc: 49.08 ng/ml



#6 beta-BHC

R.T.: 3.904 min
Delta R.T.: 0.002 min
Response: 104312829
Conc: 52.45 ng/ml



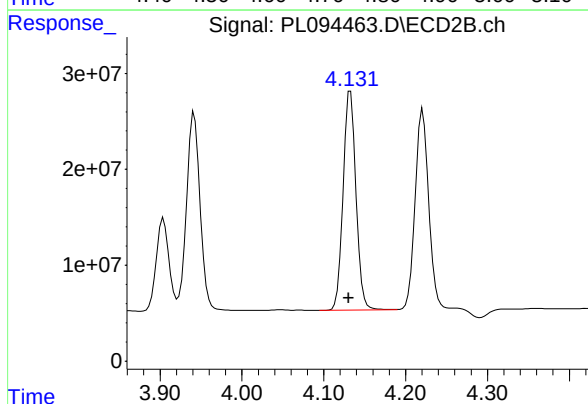
#7 delta-BHC

R.T.: 4.772 min
Delta R.T.: 0.003 min
Response: 177300999
Conc: 50.11 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

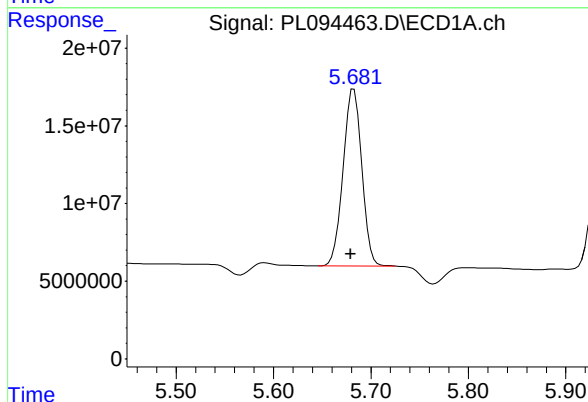
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/03/2025
Supervised By :mohammad ahmed 03/07/2025



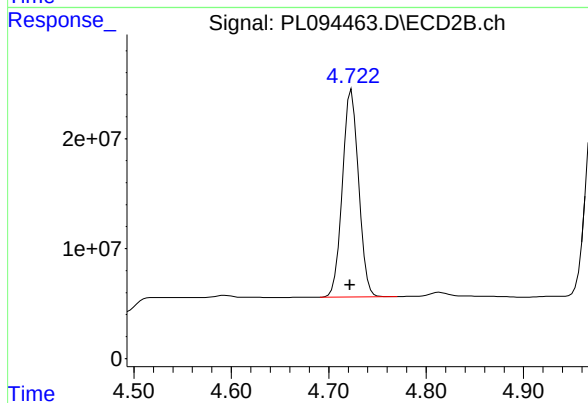
#7 delta-BHC

R.T.: 4.133 min
Delta R.T.: 0.002 min
Response: 250136048
Conc: 52.82 ng/ml



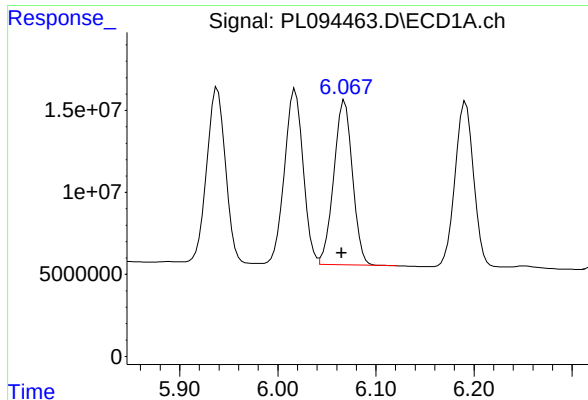
#8 Heptachlor epoxide

R.T.: 5.683 min
Delta R.T.: 0.003 min
Response: 151713356
Conc: 50.35 ng/ml



#8 Heptachlor epoxide

R.T.: 4.724 min
Delta R.T.: 0.002 min
Response: 217615227
Conc: 51.14 ng/ml



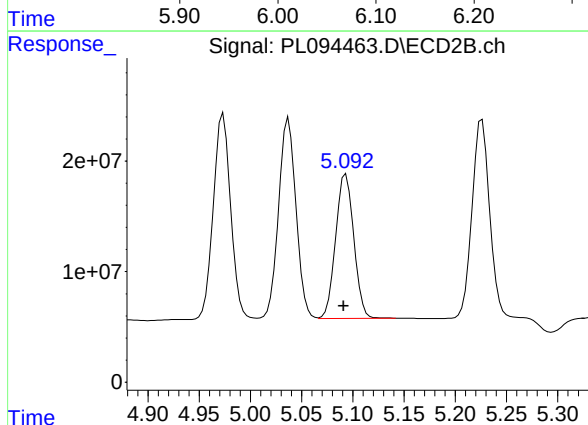
#9 Endosulfan I

R.T.: 6.068 min
Delta R.T.: 0.003 min
Response: 132727307
Conc: 48.29 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

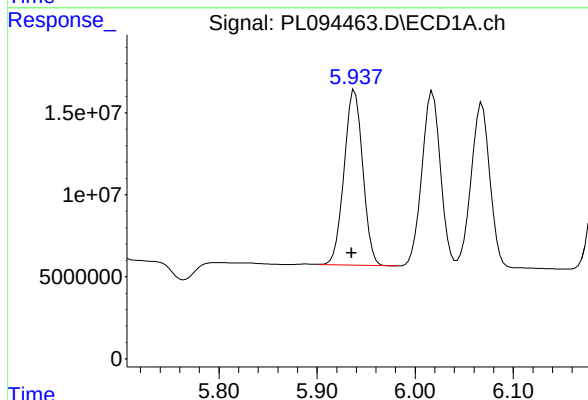
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/03/2025
Supervised By :mohammad ahmed 03/07/2025



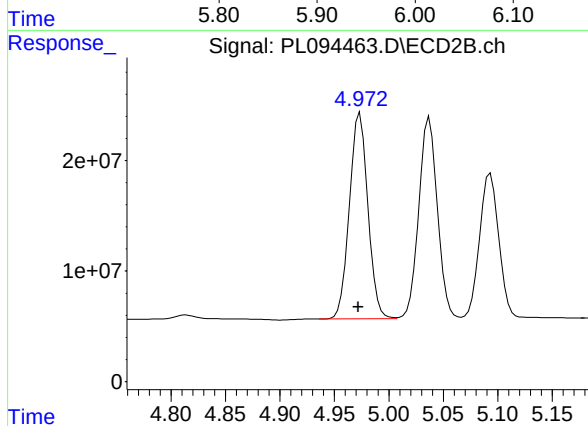
#9 Endosulfan I

R.T.: 5.093 min
Delta R.T.: 0.002 min
Response: 160623718
Conc: 40.29 ng/ml



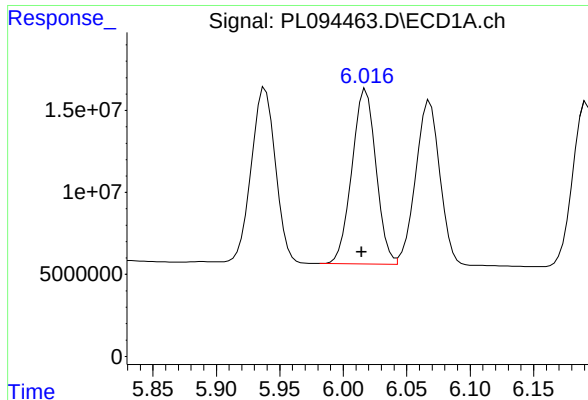
#10 gamma-Chlordane

R.T.: 5.938 min
Delta R.T.: 0.003 min
Response: 141524923
Conc: 48.20 ng/ml



#10 gamma-Chlordane

R.T.: 4.974 min
Delta R.T.: 0.002 min
Response: 219608610
Conc: 50.61 ng/ml



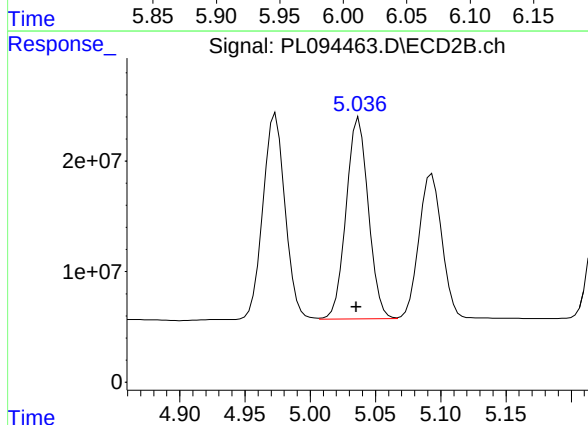
#11 alpha-Chlordane

R.T.: 6.018 min
Delta R.T.: 0.003 min
Response: 141044641
Conc: 48.68 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

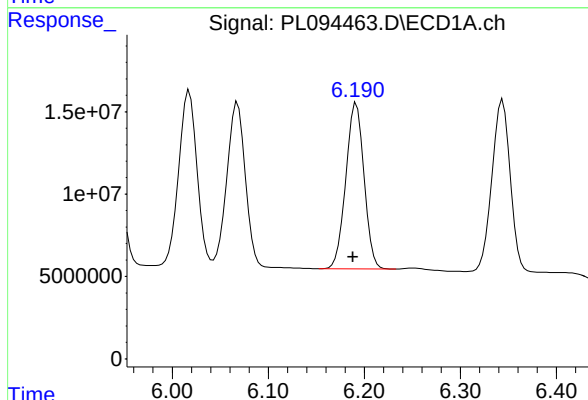
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/03/2025
Supervised By :mohammad ahmed 03/07/2025



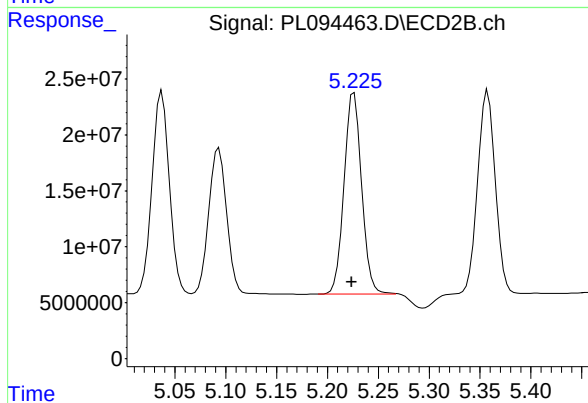
#11 alpha-Chlordane

R.T.: 5.037 min
Delta R.T.: 0.002 min
Response: 215752558
Conc: 49.97 ng/ml



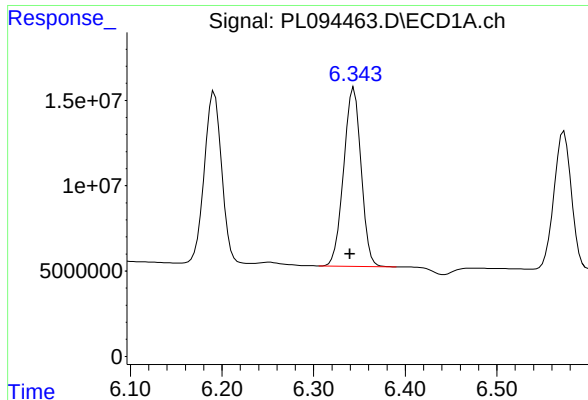
#12 4,4'-DDE

R.T.: 6.192 min
Delta R.T.: 0.003 min
Response: 132106534
Conc: 50.58 ng/ml



#12 4,4'-DDE

R.T.: 5.225 min
Delta R.T.: 0.000 min
Response: 216307741
Conc: 51.50 ng/ml m



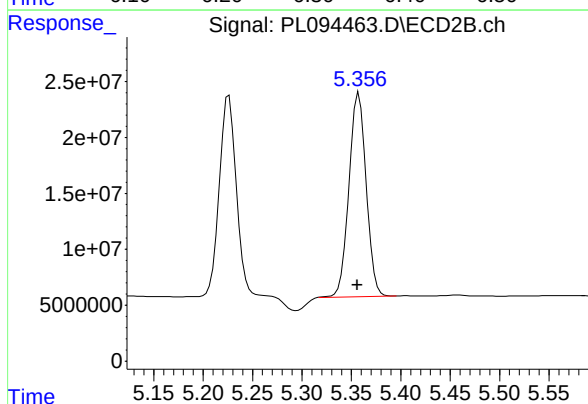
#13 Dieldrin

R.T.: 6.344 min
Delta R.T.: 0.004 min
Response: 138728066
Conc: 48.69 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

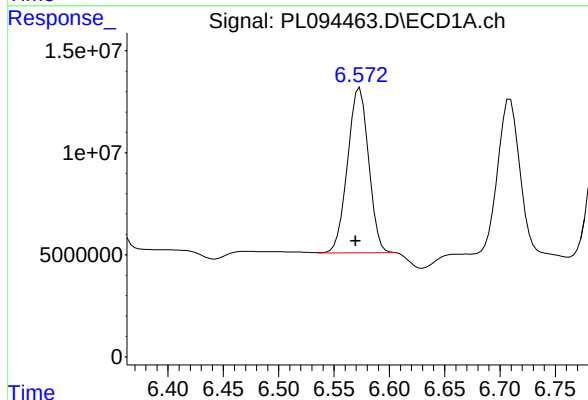
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/03/2025
Supervised By :mohammad ahmed 03/07/2025



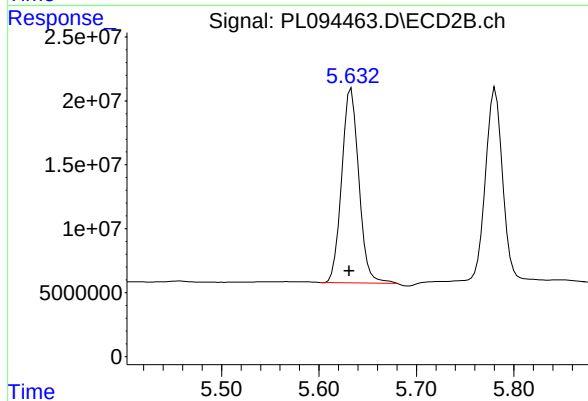
#13 Dieldrin

R.T.: 5.358 min
Delta R.T.: 0.002 min
Response: 220946172
Conc: 50.42 ng/ml



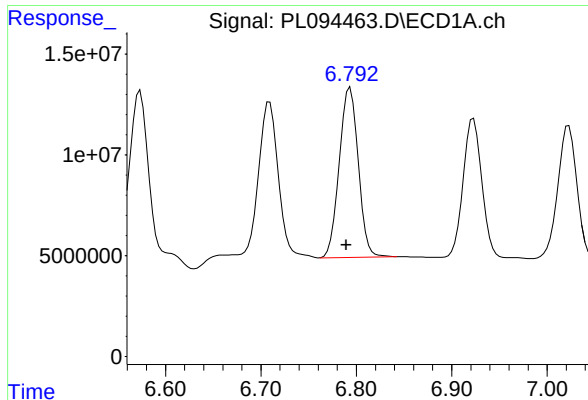
#14 Endrin

R.T.: 6.572 min
Delta R.T.: 0.002 min
Response: 107202558
Conc: 42.00 ng/ml m



#14 Endrin

R.T.: 5.633 min
Delta R.T.: 0.002 min
Response: 186135741
Conc: 54.67 ng/ml



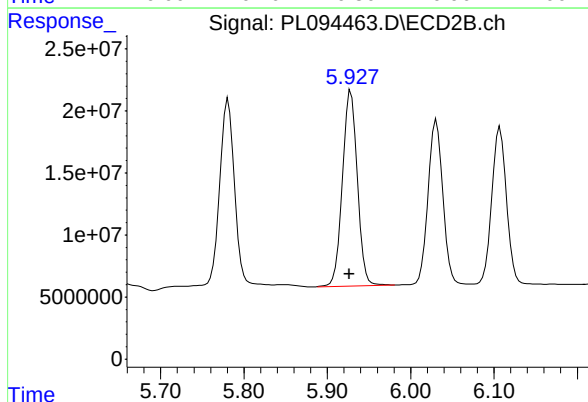
#15 Endosulfan II

R.T.: 6.793 min
Delta R.T.: 0.004 min
Response: 116484690
Conc: 46.27 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

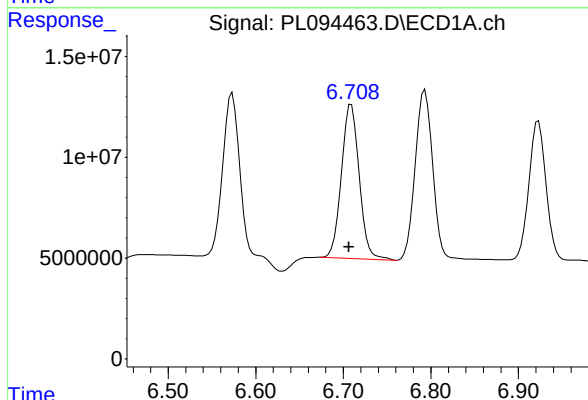
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/03/2025
Supervised By :mohammad ahmed 03/07/2025



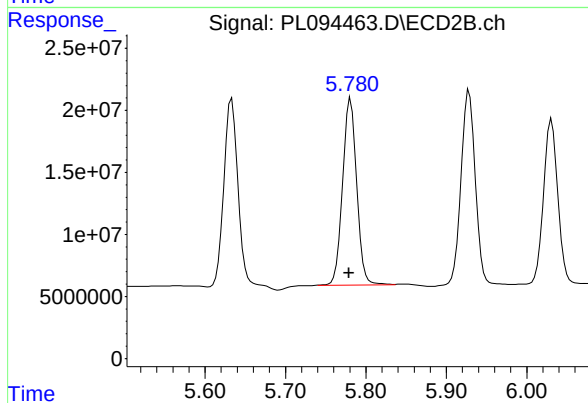
#15 Endosulfan II

R.T.: 5.927 min
Delta R.T.: 0.000 min
Response: 195412533
Conc: 52.26 ng/ml



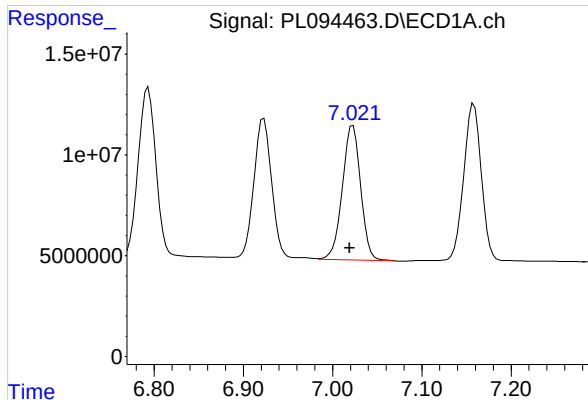
#16 4,4'-DDD

R.T.: 6.709 min
Delta R.T.: 0.003 min
Response: 108183026
Conc: 58.49 ng/ml



#16 4,4'-DDD

R.T.: 5.781 min
Delta R.T.: 0.002 min
Response: 183112481
Conc: 57.49 ng/ml



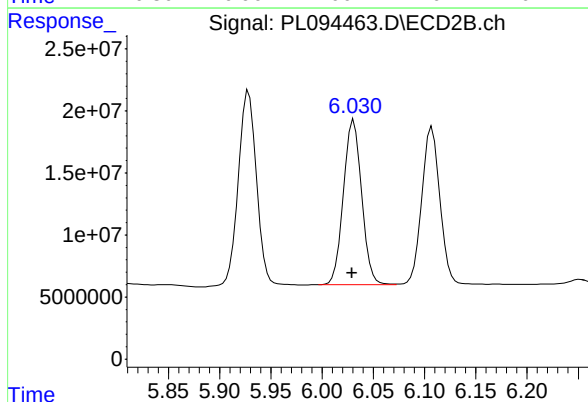
#17 4,4'-DDT

R.T.: 7.023 min
Delta R.T.: 0.004 min
Response: 95114327
Conc: 45.29 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

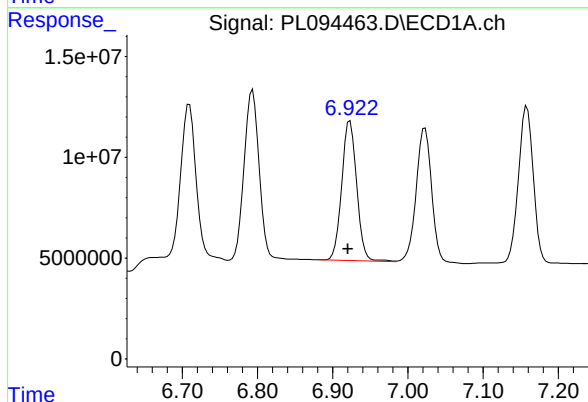
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/03/2025
Supervised By :mohammad ahmed 03/07/2025



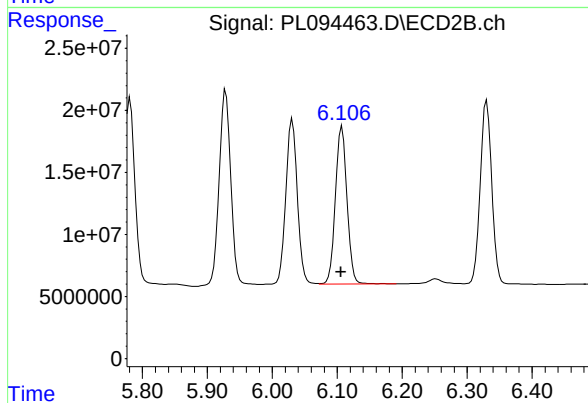
#17 4,4'-DDT

R.T.: 6.031 min
Delta R.T.: 0.002 min
Response: 163700305
Conc: 46.02 ng/ml



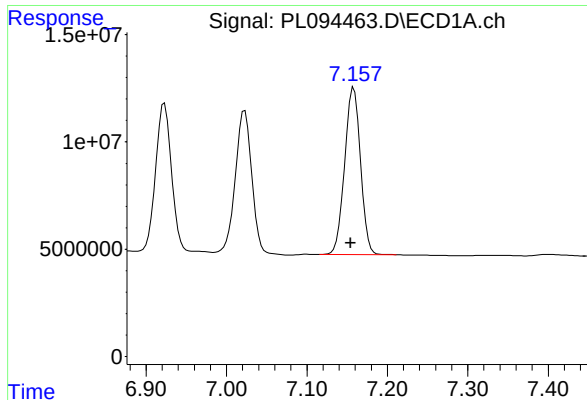
#18 Endrin aldehyde

R.T.: 6.923 min
Delta R.T.: 0.003 min
Response: 95918268
Conc: 49.27 ng/ml



#18 Endrin aldehyde

R.T.: 6.107 min
Delta R.T.: 0.002 min
Response: 156526558
Conc: 49.53 ng/ml



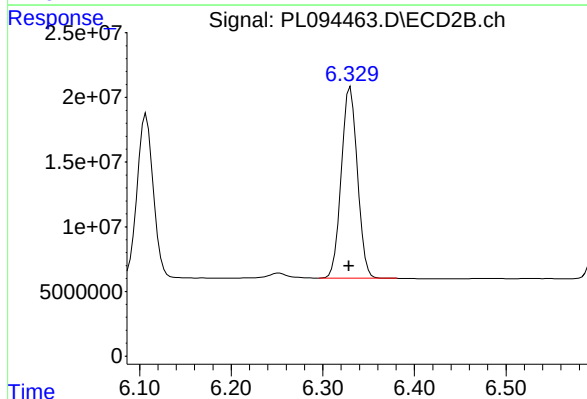
#19 Endosulfan Sulfate

R.T.: 7.158 min
Delta R.T.: 0.004 min
Response: 106520613
Conc: 47.05 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

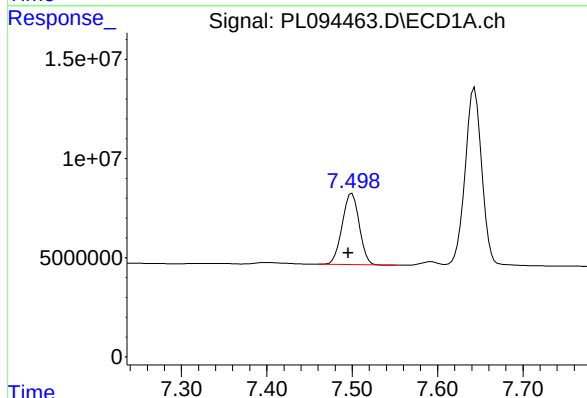
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/03/2025
Supervised By :mohammad ahmed 03/07/2025



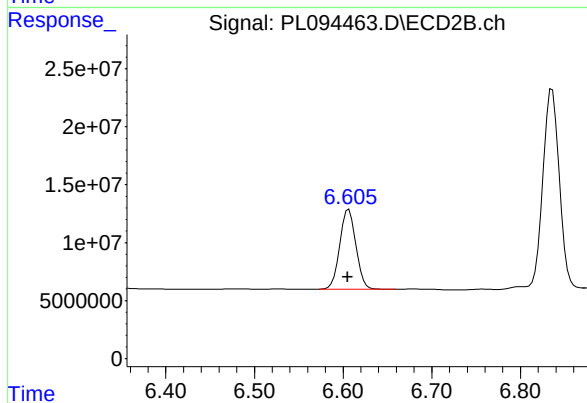
#19 Endosulfan Sulfate

R.T.: 6.330 min
Delta R.T.: 0.002 min
Response: 181592411
Conc: 49.16 ng/ml



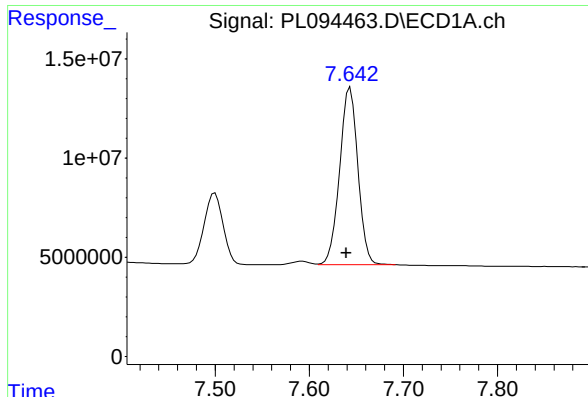
#20 Methoxychlor

R.T.: 7.500 min
Delta R.T.: 0.004 min
Response: 49741663
Conc: 44.77 ng/ml



#20 Methoxychlor

R.T.: 6.606 min
Delta R.T.: 0.002 min
Response: 87158383
Conc: 44.67 ng/ml



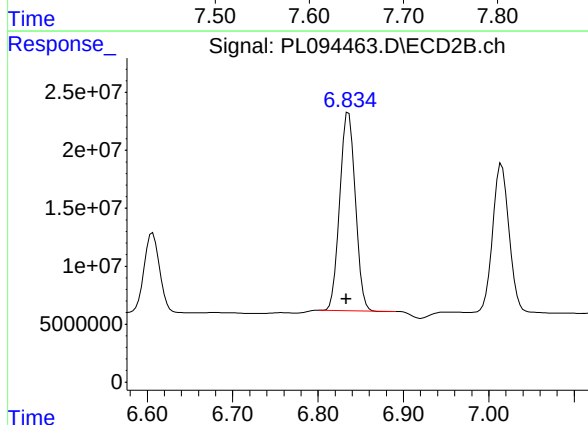
#21 Endrin ketone

R.T.: 7.643 min
Delta R.T.: 0.004 min
Response: 120625158
Conc: 48.12 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

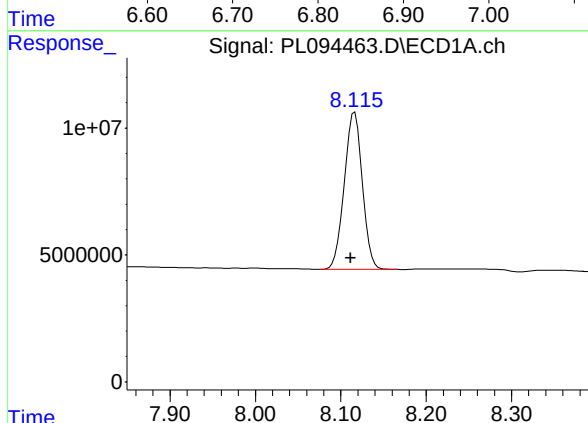
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/03/2025
Supervised By :mohammad ahmed 03/07/2025



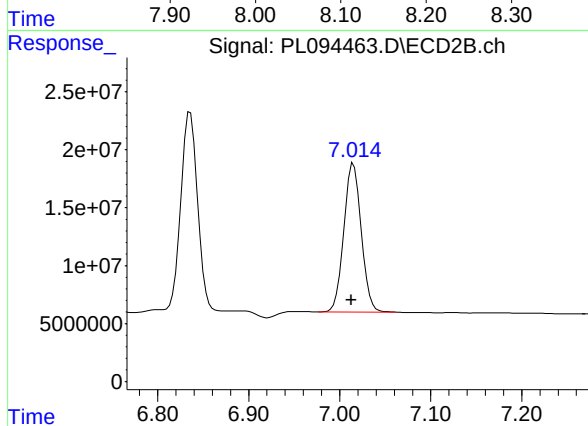
#21 Endrin ketone

R.T.: 6.836 min
Delta R.T.: 0.003 min
Response: 216395813
Conc: 50.71 ng/ml



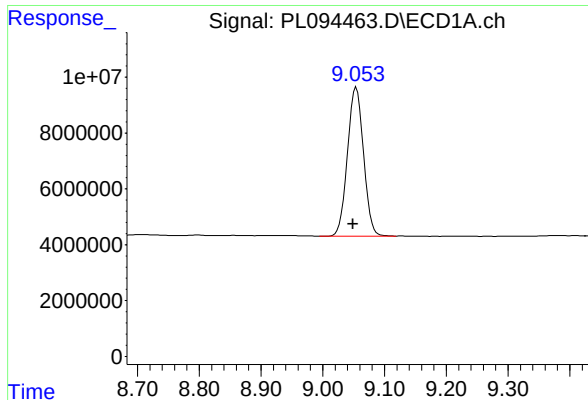
#22 Mirex

R.T.: 8.116 min
Delta R.T.: 0.005 min
Response: 91131333
Conc: 44.17 ng/ml



#22 Mirex

R.T.: 7.015 min
Delta R.T.: 0.002 min
Response: 170726854
Conc: 48.96 ng/ml



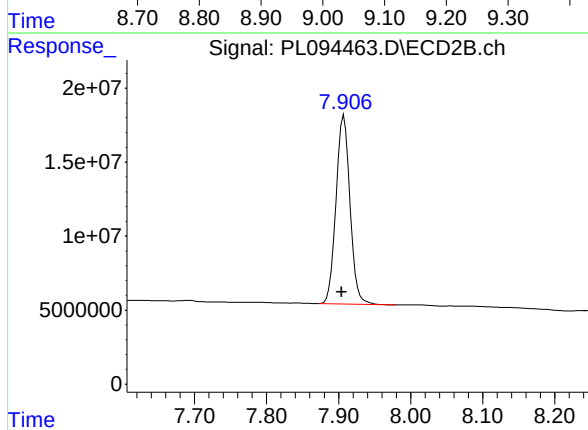
#28 Decachlorobiphenyl

R.T.: 9.054 min
Delta R.T.: 0.005 min
Response: 96391836
Conc: 45.31 ng/ml

Instrument :
ECD_L
ClientSampleId :
PSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/03/2025
Supervised By :mohammad ahmed 03/07/2025



#28 Decachlorobiphenyl

R.T.: 7.907 min
Delta R.T.: 0.003 min
Response: 170733704
Conc: 44.40 ng/ml

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: **ROYF02**

Lab Code: **CHEM** Case No.: **Q1421** SAS No.: **Q1421** SDG NO.: **Q1421**

GC Column: **ZB-MR1** ID: **0.32** (mm) Initi. Calib. Date(s): **02/21/2025** **02/21/2025**

Client Sample No. (PEM): **PEM - PL094324.D** Date Analyzed: **02/21/2025**

Lab Sample No.(PEM): **PEM** Time Analyzed: **10:29**

PEM COMPOUND	RT	RT WINDOW		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
Decachlorobiphenyl	9.049	8.950	9.150	19.210	20.000	-4.0
Tetrachloro-m-xylene	3.536	3.490	3.590	18.850	20.000	-5.8
alpha-BHC	3.991	3.940	4.040	10.030	10.000	0.3
beta-BHC	4.523	4.470	4.570	10.250	10.000	2.5
gamma-BHC (Lindane)	4.324	4.270	4.370	9.920	10.000	-0.8
Endrin	6.570	6.500	6.640	41.860	50.000	-16.3
4,4'-DDT	7.020	6.950	7.090	87.790	100.000	-12.2
Methoxychlor	7.497	7.430	7.570	207.340	250.000	-17.1

GC Column: **ZB-MR2** ID: **0.32** (mm) Initi. Calib. Date(s): **02/21/2025** **02/21/2025**

Client Sample No. (PEM): **PEM - PL094324.D** Date Analyzed: **02/21/2025**

Lab Sample No.(PEM): **PEM** Time Analyzed: **10:29**

PEM COMPOUND	RT	RT WINDOW		CALC	NOM	%D
		FROM	TO	AMOUNT(ng)	AMOUNT(ng)	
Decachlorobiphenyl	7.904	7.800	8.000	18.560	20.000	-7.2
Tetrachloro-m-xylene	2.771	2.720	2.820	18.550	20.000	-7.3
alpha-BHC	3.273	3.220	3.320	8.830	10.000	-11.7
beta-BHC	3.903	3.850	3.950	9.960	10.000	-0.4
gamma-BHC (Lindane)	3.603	3.550	3.650	8.530	10.000	-14.7
Endrin	5.632	5.560	5.700	45.740	50.000	-8.5
4,4'-DDT	6.029	5.960	6.100	98.350	100.000	-1.7
Methoxychlor	6.605	6.530	6.680	222.980	250.000	-10.8

Data File: PEM
 PL094324.D **Date Acquired** 2/21/2025 10:29
Operator: AR\AJ

ENDRIN BREAK DOWN

Column #1

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down
Endrin	6.57	106834677.4	113699408.8	6864731.43	Down 6.04
Endrin aldehyde	6.92	2450806.957			
Endrin ketone	7.64	4413924.47			

Column #2

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down
Endrin #2	5.63	155723846.7	170901765.2	15177918.4	8.88
Endrin aldehyde #2	6.11	8289635.433			
Endrin ketone #2	6.83	6888283.002			

DDT BREAK DOWN

Column #1

Name	RT	Response	Response [DDT+DDE+DDD]	Response [DDE+DDD]	% Break Down
4,4'-DDT	7.02	184352701	185927903.4	1575202.36	0.85
4,4'-DDE	6.19	502184.032			
4,4'-DDD	6.71	1073018.331			

Column #2

Name	RT	Response	Response [DDT+DDE+DDD]	Response [DDE+DDD]	% Break Down
4,4'-DDT #2	6.03	349846111	352989141.9	3143030.88	0.89
4,4'-DDE #2	5.23	596448.117			
4,4'-DDD #2	5.78	2546582.761			

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022125\
 Data File : PL094324.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Feb 2025 10:29
 Operator : AR\AJ
 Sample : PEM
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PEM

Manual Integrations APPROVED

Reviewed By : Abdul Mirza 02/22/2025
 Supervised By : Ankita Jodhani 02/24/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 21 13:26:42 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
 Quant Title : GC Extractables
 QLast Update : Fri Feb 21 13:20:18 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 x0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
1)	SA Tetrachlo...	3.536	2.771	47867576	59184811	18.852	18.546
28)	SA Decachlor...	9.049	7.904	40873835	71371388	19.214	18.559
Target Compounds							
2)	A alpha-BHC	3.991	3.273	37928964	43396269	10.027	8.830
3)	MA gamma-BHC...	4.324	3.603	36641276	40152666	9.917	8.525
6)	B beta-BHC	4.523	3.903	16364265	19814220	10.248	9.962
12)	B 4,4'-DDE	6.189	5.225	502184	596448	0.192m	0.142m#
14)	MA Endrin	6.570	5.632	106.8E6	155.7E6	41.858	45.738
16)	A 4,4'-DDD	6.709	5.781	1073018	2546583	0.580m	0.799 #
17)	MA 4,4'-DDT	7.020	6.029	184.4E6	349.8E6	87.786	98.354
18)	B Endrin al...	6.920	6.106	2450807	8289635	1.259	2.623 #
20)	A Methoxychlor	7.497	6.605	230.4E6	435.0E6	207.343	222.985
21)	B Endrin ke...	7.638	6.833	4413924	6888283	1.761m	1.614

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022125\
Data File : PL094324.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2025 10:29
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

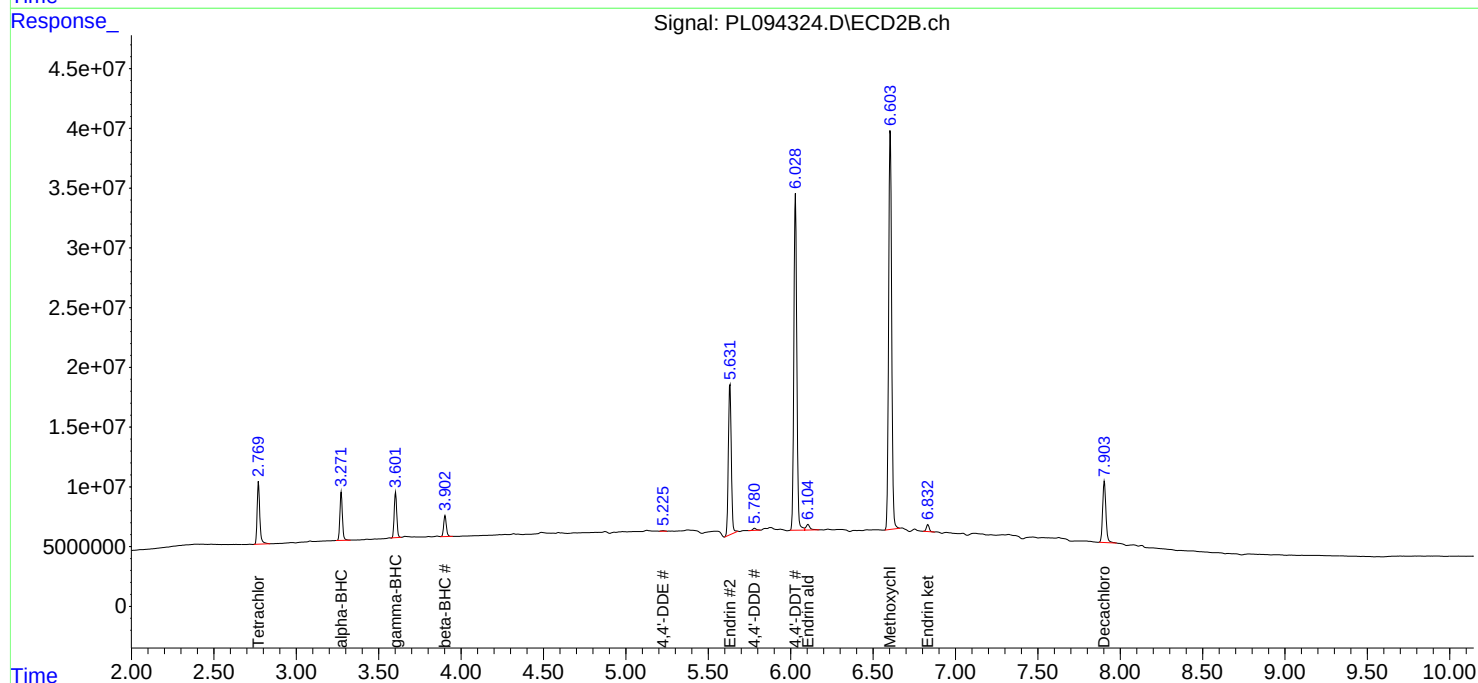
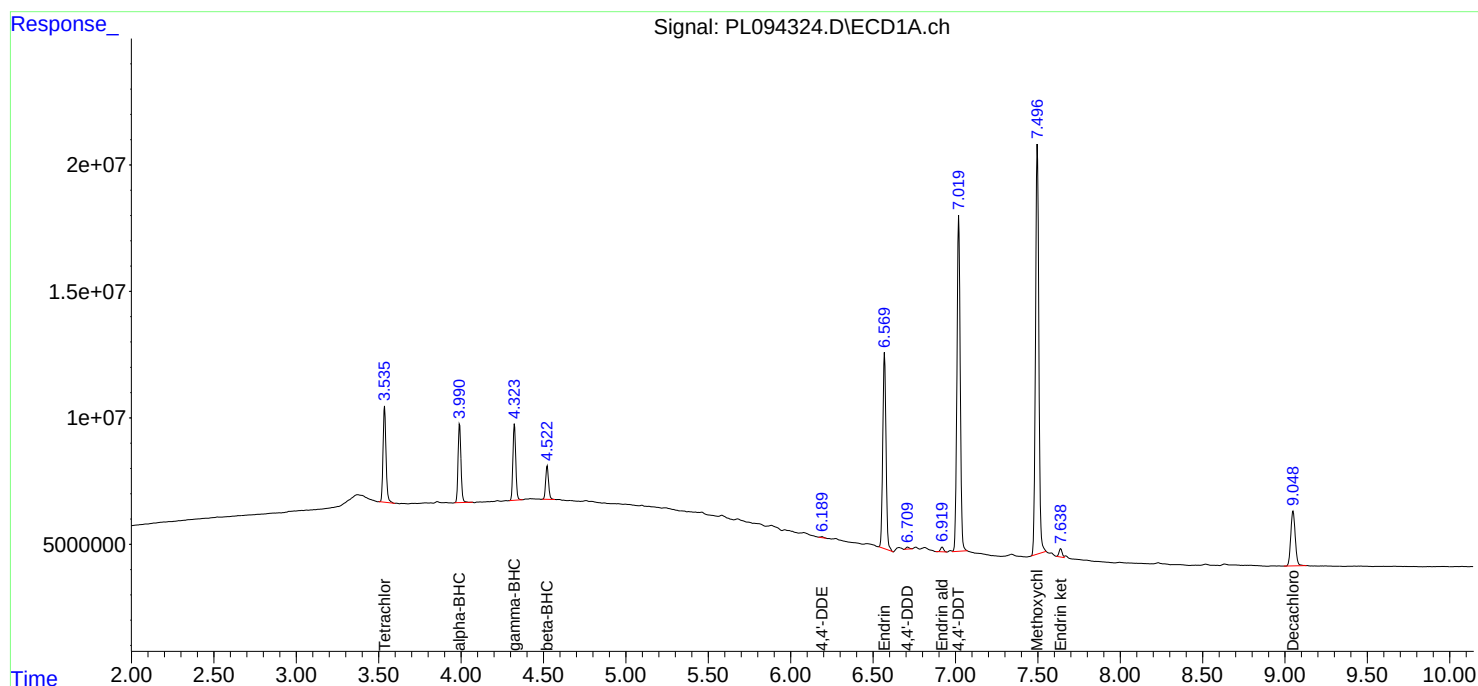
Instrument :
ECD_L
ClientSampleId :
PEM

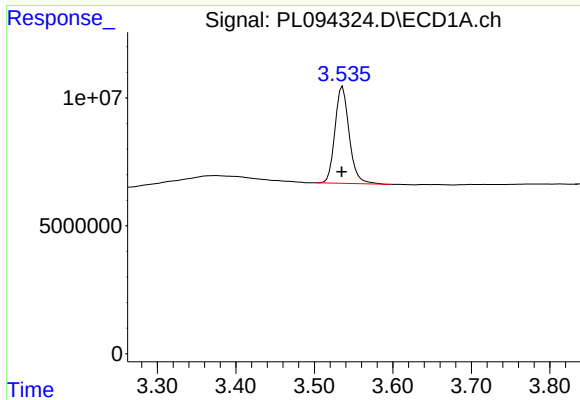
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 02/22/2025
Supervised By : Ankita Jodhani 02/24/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 21 13:26:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 13:20:18 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 x0.25µm





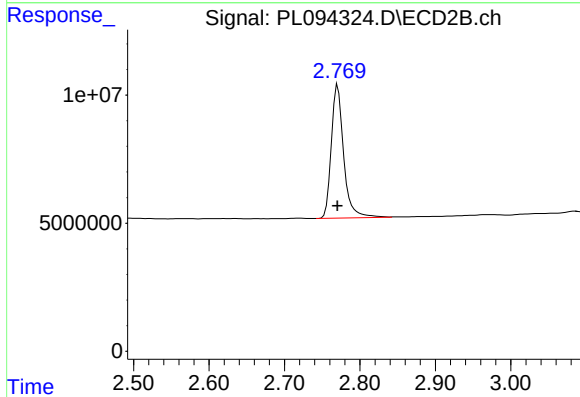
#1 Tetrachloro-m-xylene

R.T.: 3.536 min
Delta R.T.: 0.001 min
Response: 47867576
Conc: 18.85 ng/ml

Instrument :
ECD_L
ClientSampleId :
PEM

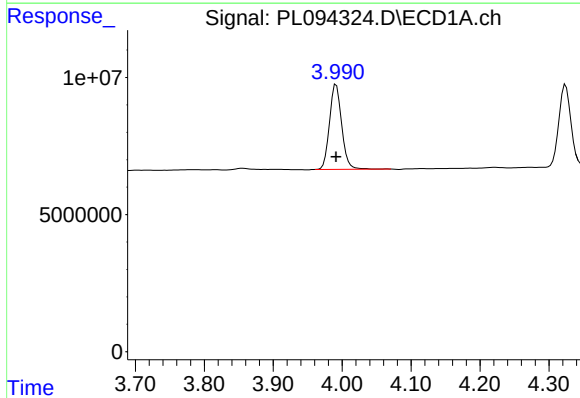
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/22/2025
Supervised By :Ankita Jodhani 02/24/2025



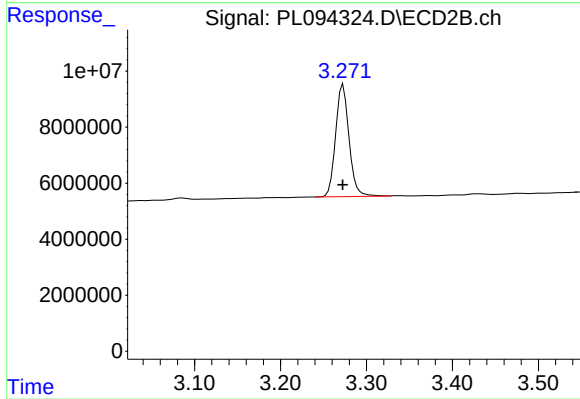
#1 Tetrachloro-m-xylene

R.T.: 2.771 min
Delta R.T.: 0.000 min
Response: 59184811
Conc: 18.55 ng/ml



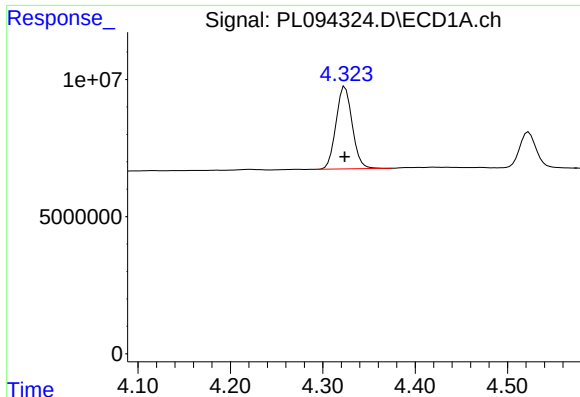
#2 alpha-BHC

R.T.: 3.991 min
Delta R.T.: 0.000 min
Response: 37928964
Conc: 10.03 ng/ml



#2 alpha-BHC

R.T.: 3.273 min
Delta R.T.: 0.000 min
Response: 43396269
Conc: 8.83 ng/ml



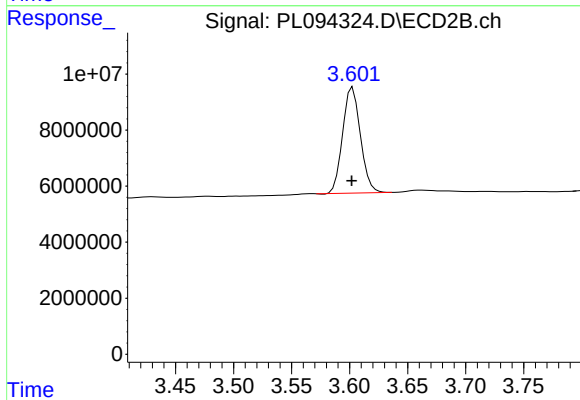
#3 gamma-BHC (Lindane)

R.T.: 4.324 min
Delta R.T.: 0.000 min
Response: 36641276
Conc: 9.92 ng/ml

Instrument :
ECD_L
ClientSampleId :
PEM

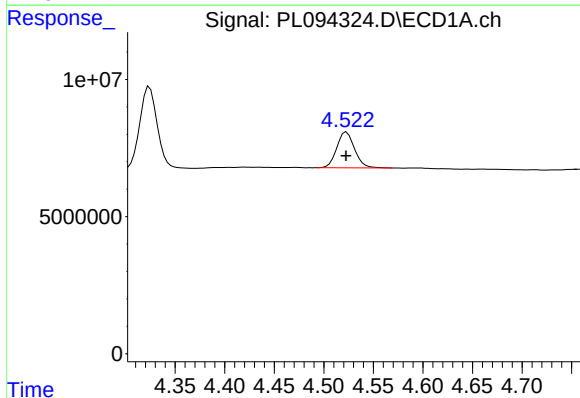
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/22/2025
Supervised By :Ankita Jodhani 02/24/2025



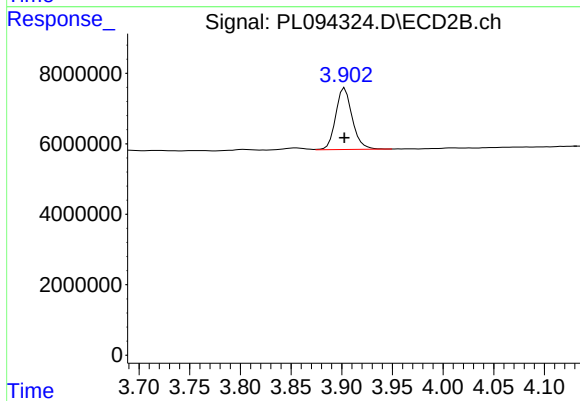
#3 gamma-BHC (Lindane)

R.T.: 3.603 min
Delta R.T.: 0.000 min
Response: 40152666
Conc: 8.53 ng/ml



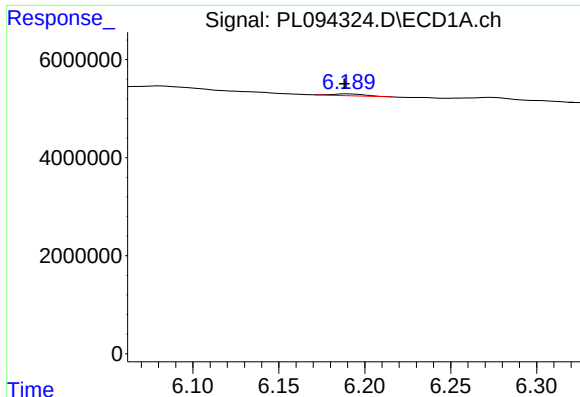
#6 beta-BHC

R.T.: 4.523 min
Delta R.T.: 0.000 min
Response: 16364265
Conc: 10.25 ng/ml



#6 beta-BHC

R.T.: 3.903 min
Delta R.T.: 0.000 min
Response: 19814220
Conc: 9.96 ng/ml



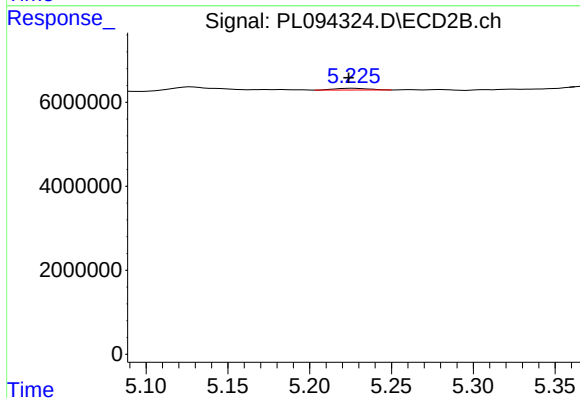
#12 4,4'-DDE

R.T.: 6.189 min
Delta R.T.: 0.001 min
Response: 502184
Conc: 0.19 ng/ml

Instrument :
ECD_L
ClientSampleId :
PEM

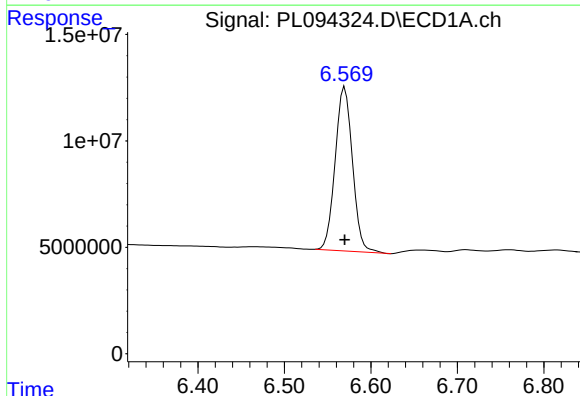
Manual Integrations
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Reviewed By :Abdul Mirza 02/22/2025
Supervised By :Ankita Jodhani 02/24/2025



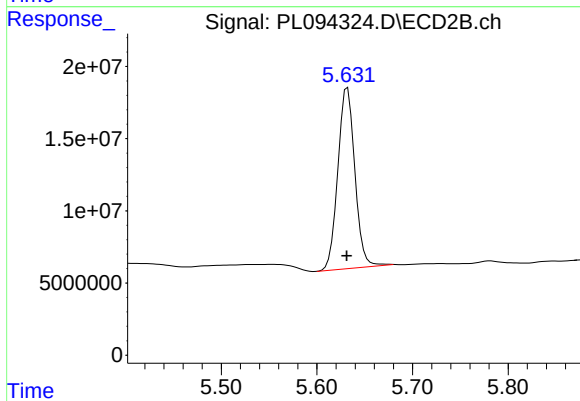
#12 4,4'-DDE

R.T.: 5.225 min
Delta R.T.: 0.001 min
Response: 596448
Conc: 0.14 ng/ml m



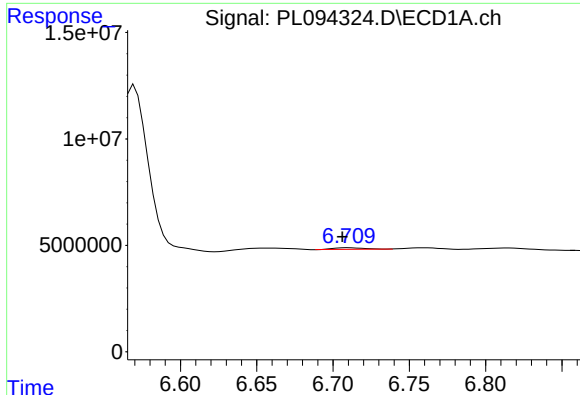
#14 Endrin

R.T.: 6.570 min
Delta R.T.: 0.000 min
Response: 106834677
Conc: 41.86 ng/ml



#14 Endrin

R.T.: 5.632 min
Delta R.T.: 0.000 min
Response: 155723847
Conc: 45.74 ng/ml



#16 4,4'-DDD

R.T.: 6.709 min
Delta R.T.: 0.003 min
Response: 1073018
Conc: 0.58 ng/ml

Instrument :

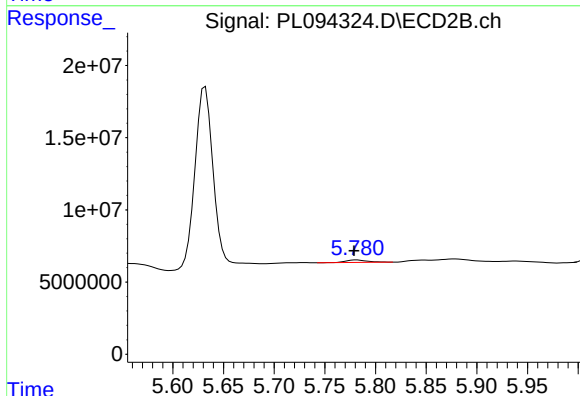
ECD_L

ClientSampleId :

PEM

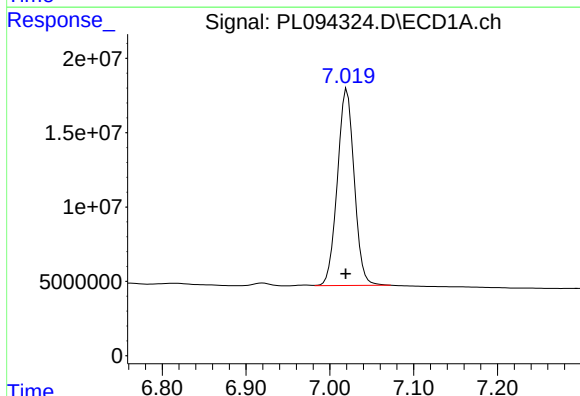
Manual Integrations
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Reviewed By :Abdul Mirza 02/22/2025
Supervised By :Ankita Jodhani 02/24/2025



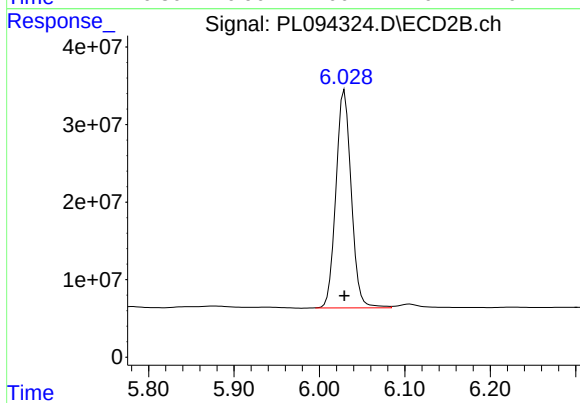
#16 4,4'-DDD

R.T.: 5.781 min
Delta R.T.: 0.002 min
Response: 2546583
Conc: 0.80 ng/ml



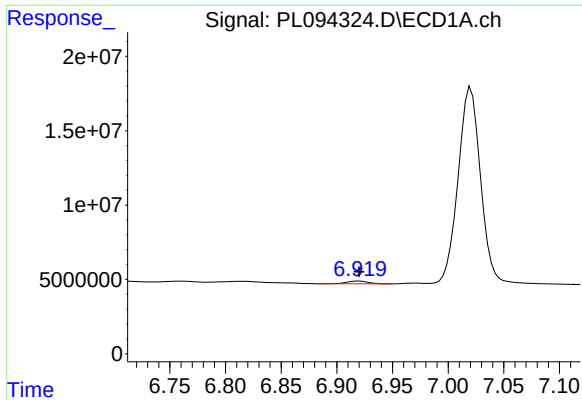
#17 4,4'-DDT

R.T.: 7.020 min
Delta R.T.: 0.001 min
Response: 184352701
Conc: 87.79 ng/ml



#17 4,4'-DDT

R.T.: 6.029 min
Delta R.T.: 0.000 min
Response: 349846111
Conc: 98.35 ng/ml



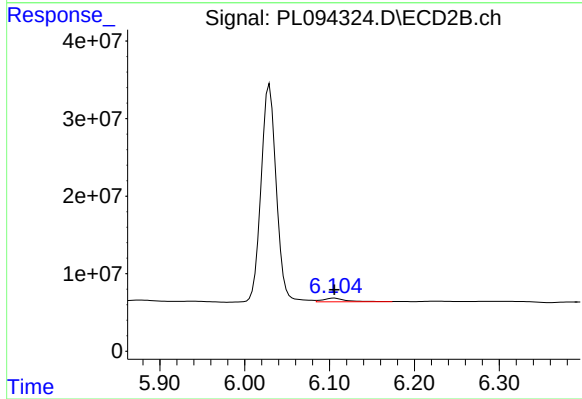
#18 Endrin aldehyde

R.T.: 6.920 min
Delta R.T.: 0.000 min
Response: 2450807
Conc: 1.26 ng/ml

Instrument :
ECD_L
ClientSampleId :
PEM

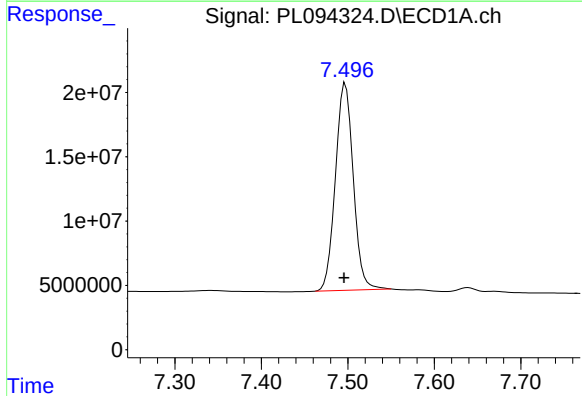
Manual Integrations
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Reviewed By :Abdul Mirza 02/22/2025
Supervised By :Ankita Jodhani 02/24/2025



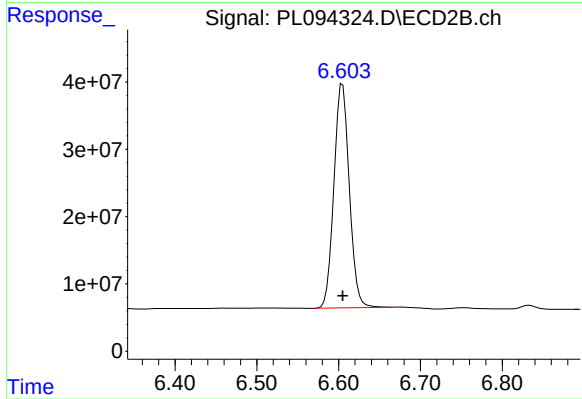
#18 Endrin aldehyde

R.T.: 6.106 min
Delta R.T.: 0.000 min
Response: 8289635
Conc: 2.62 ng/ml



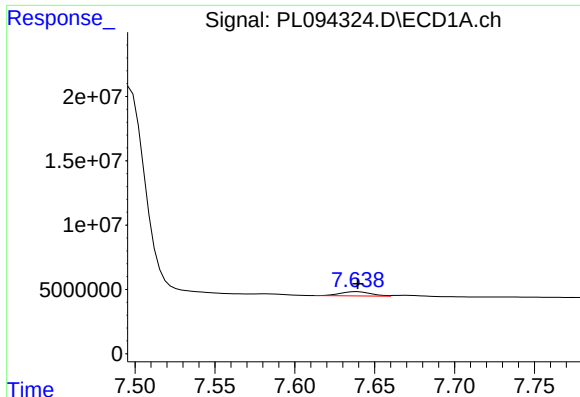
#20 Methoxychlor

R.T.: 7.497 min
Delta R.T.: 0.002 min
Response: 230366562
Conc: 207.34 ng/ml



#20 Methoxychlor

R.T.: 6.605 min
Delta R.T.: 0.000 min
Response: 435049433
Conc: 222.98 ng/ml



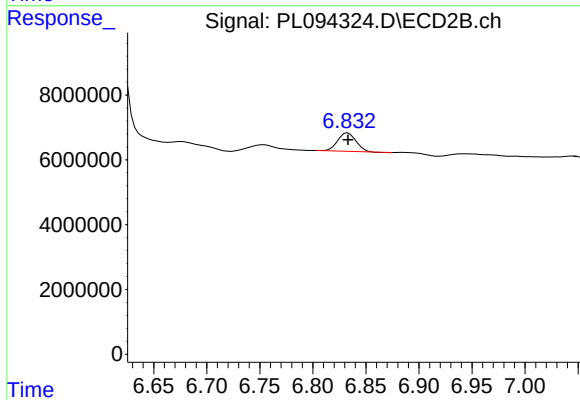
#21 Endrin ketone

R.T.: 7.638 min
Delta R.T.: -0.002 min
Response: 4413924
Conc: 1.76 ng/ml

Instrument :
ECD_L
ClientSampleId :
PEM

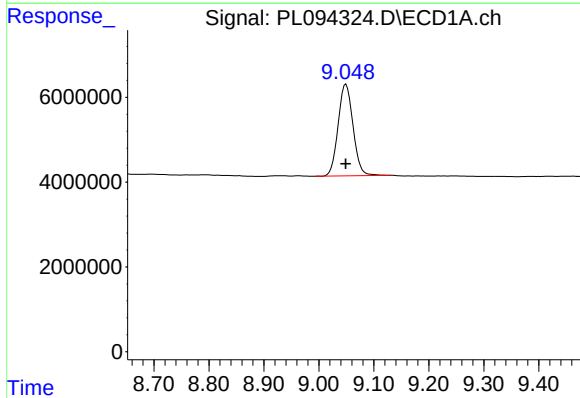
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/22/2025
Supervised By :Ankita Jodhani 02/24/2025



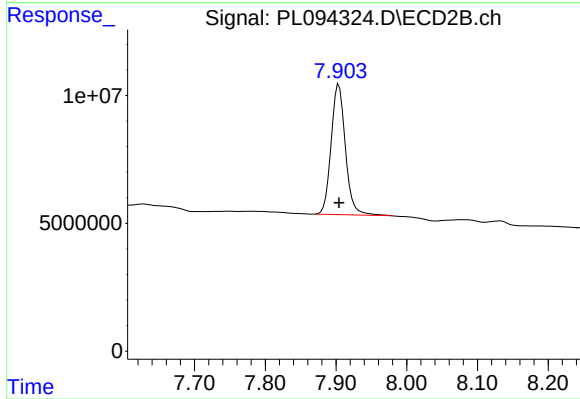
#21 Endrin ketone

R.T.: 6.833 min
Delta R.T.: 0.000 min
Response: 6888283
Conc: 1.61 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.049 min
Delta R.T.: 0.000 min
Response: 40873835
Conc: 19.21 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.904 min
Delta R.T.: 0.000 min
Response: 71371388
Conc: 18.56 ng/ml

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: **ROYF02**

Lab Code: **CHEM** Case No.: **Q1421** SAS No.: **Q1421** SDG NO.: **Q1421**

GC Column: **ZB-MR1** ID: **0.32** (mm) Initi. Calib. Date(s): **02/21/2025** **02/21/2025**

Client Sample No. (PEM): **PEM - PL094433.D** Date Analyzed: **02/27/2025**

Lab Sample No.(PEM): **PEM** Time Analyzed: **19:33**

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Decachlorobiphenyl	9.053	8.950	9.150	21.840	20.000	9.2
Tetrachloro-m-xylene	3.537	3.490	3.590	24.480	20.000	22.4
alpha-BHC	3.993	3.940	4.040	12.520	10.000	25.2
beta-BHC	4.525	4.470	4.580	12.360	10.000	23.6
gamma-BHC (Lindane)	4.325	4.270	4.380	12.110	10.000	21.1
Endrin	6.572	6.500	6.640	47.110	50.000	-5.8
4,4'-DDT	7.023	6.950	7.090	105.150	100.000	5.2
Methoxychlor	7.500	7.430	7.570	246.150	250.000	-1.5

GC Column: **ZB-MR2** ID: **0.32** (mm) Initi. Calib. Date(s): **02/21/2025** **02/21/2025**

Client Sample No. (PEM): **PEM - PL094433.D** Date Analyzed: **02/27/2025**

Lab Sample No.(PEM): **PEM** Time Analyzed: **19:33**

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Decachlorobiphenyl	7.907	7.810	8.010	21.030	20.000	5.2
Tetrachloro-m-xylene	2.771	2.720	2.820	23.890	20.000	19.5
alpha-BHC	3.273	3.220	3.320	11.320	10.000	13.2
beta-BHC	3.904	3.850	3.950	12.460	10.000	24.6
gamma-BHC (Lindane)	3.603	3.550	3.650	10.800	10.000	8.0
Endrin	5.633	5.560	5.700	59.090	50.000	18.2
4,4'-DDT	6.031	5.960	6.100	116.080	100.000	16.1
Methoxychlor	6.606	6.540	6.680	260.960	250.000	4.4

Data File: PEM
 PL094433.D **Date Acquired** 2/27/2025 19:33
Operator: AR\AJ

ENDRIN BREAK DOWN

Column #1

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down
Endrin	6.57	120233540	133761197.6	13527657.5	10.11
Endrin aldehyde	6.92	4617346.257			
Endrin ketone	7.64	8910311.263			

Column #2

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down
Endrin #2	5.63	201200347.5	222917134.7	21716787.2	9.74
Endrin aldehyde #2	6.11	8402214.752			
Endrin ketone #2	6.83	13314572.45			

DDT BREAK DOWN

Column #1

Name	RT	Response	Response [DDT+DDE+DDD]	Response [DDE+DDD]	% Break Down
4,4'-DDT	7.02	220826129.1	227531637.7	6705508.68	2.95
4,4'-DDE	0.00	0			
4,4'-DDD	6.71	6705508.68			

Column #2

Name	RT	Response	Response [DDT+DDE+DDD]	Response [DDE+DDD]	% Break Down
4,4'-DDT #2	6.03	412885683.2	422197314.8	9311631.57	2.21
4,4'-DDE #2	0.00	0			
4,4'-DDD #2	5.78	9311631.568			

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022725\
 Data File : PL094433.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Feb 2025 19:33
 Operator : AR\AJ
 Sample : PEM
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PEM

Manual Integrations APPROVED

Reviewed By : Abdul Mirza 03/02/2025
 Supervised By : Ankita Jodhani 03/04/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 27 22:17:06 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
 Quant Title : GC Extractables
 QLast Update : Fri Feb 21 14:52:19 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 x0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.537	2.771	62145545	76251146	24.475	23.894
28) SA Decachlor...	9.053	7.907	46460078	80858778	21.840	21.026
Target Compounds						
2) A alpha-BHC	3.993	3.273	47370979	55617402	12.523	11.316
3) MA gamma-BHC...	4.325	3.603	44742119	50844858	12.110	10.795
6) B beta-BHC	4.525	3.904	19735266	24782848	12.358	12.460
14) MA Endrin	6.572	5.633	120.2E6	201.2E6	47.108m	59.095 #
16) A 4,4'-DDD	6.707	5.781	6705509	9311632	3.625m	2.923
17) MA 4,4'-DDT	7.023	6.031	220.8E6	412.9E6	105.154	116.077
18) B Endrin al...	6.922	6.108	4617346	8402215	2.372	2.659
20) A Methoxychlor	7.500	6.606	273.5E6	509.1E6	246.149	260.965
21) B Endrin ke...	7.642	6.835	8910311	13314572	3.554	3.120

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022725\
Data File : PL094433.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2025 19:33
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

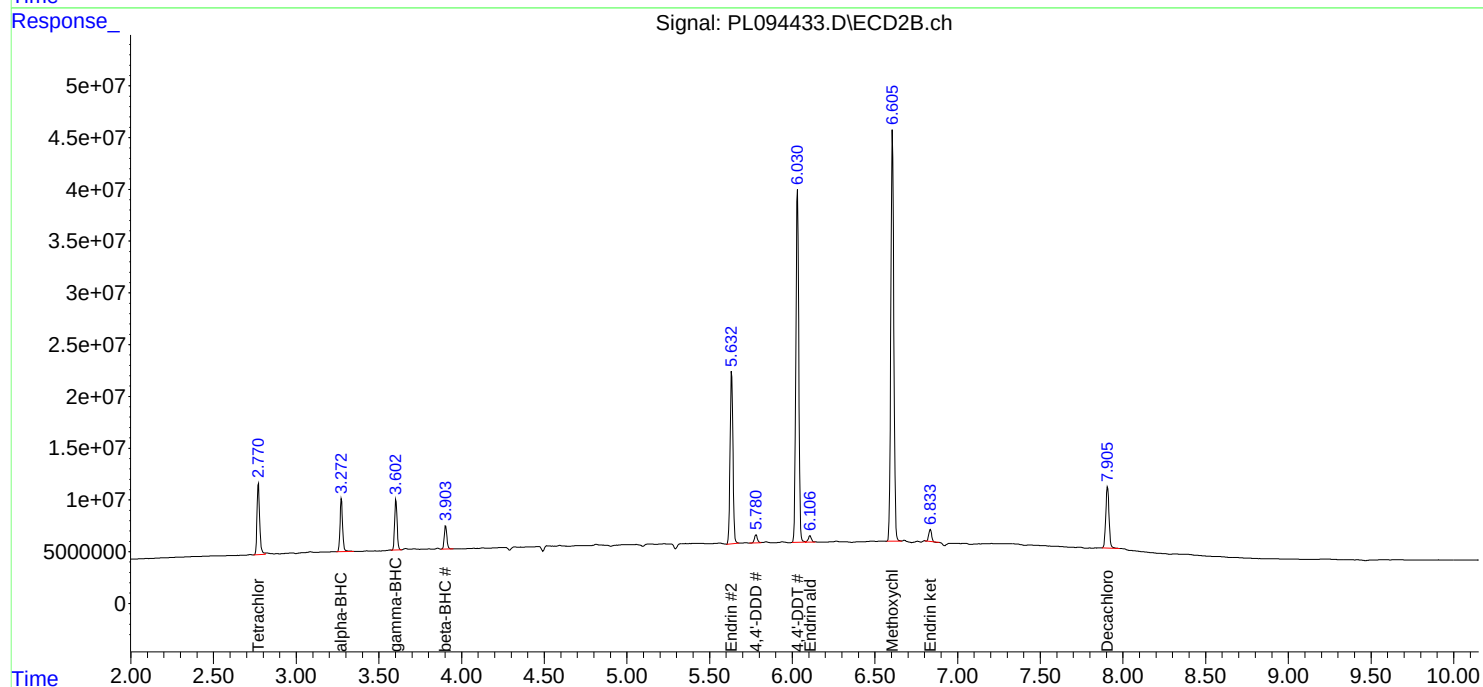
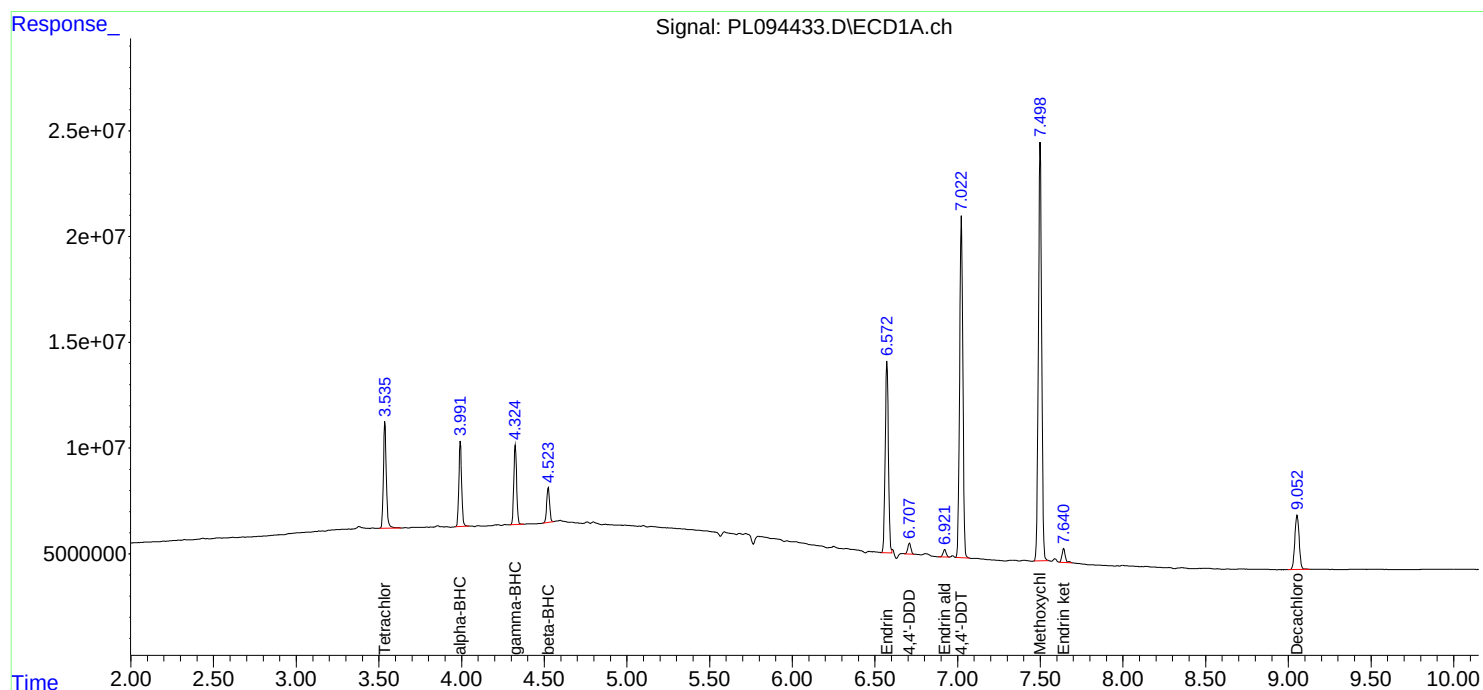
Instrument :
ECD_L
ClientSampleId :
PEM

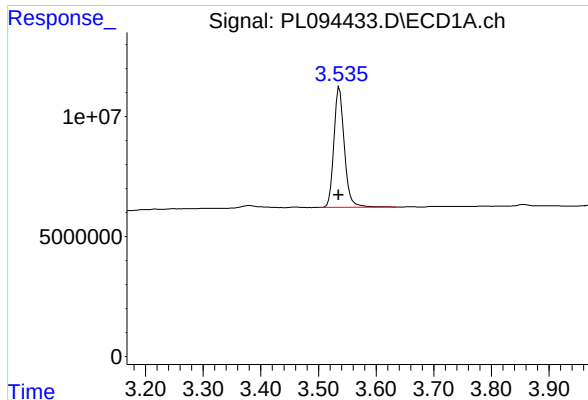
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 03/02/2025
Supervised By : Ankita Jodhani 03/04/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 22:17:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 14:52:19 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 x0.25µm





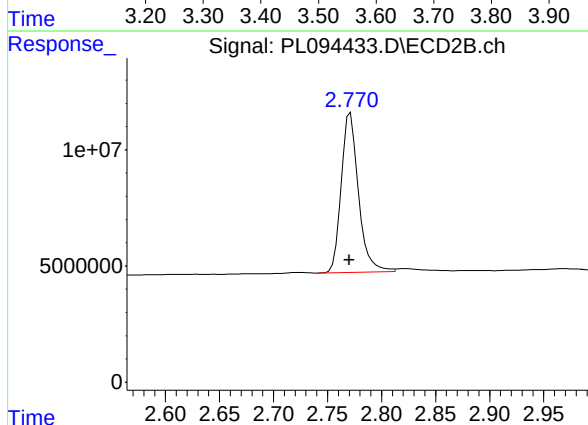
#1 Tetrachloro-m-xylene

R.T.: 3.537 min
Delta R.T.: 0.002 min
Response: 62145545
Conc: 24.48 ng/ml

Instrument :
ECD_L
ClientSampleId :
PEM

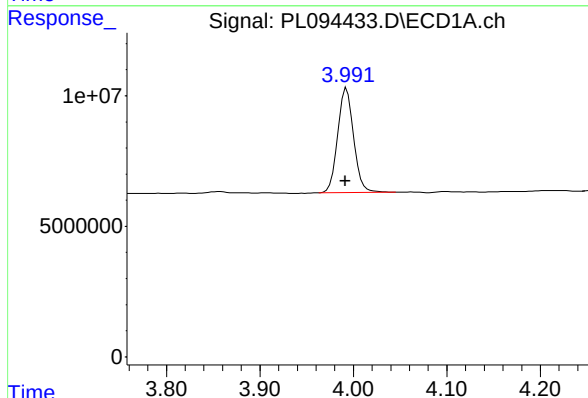
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



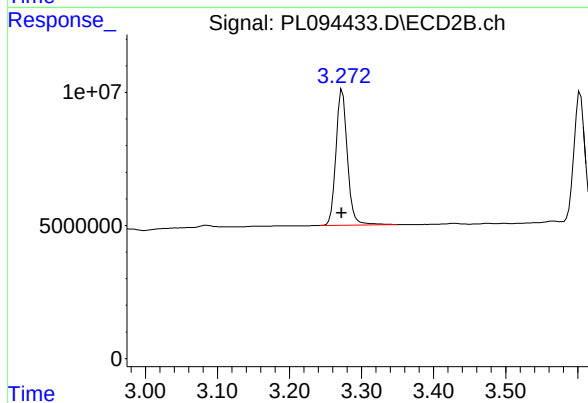
#1 Tetrachloro-m-xylene

R.T.: 2.771 min
Delta R.T.: 0.001 min
Response: 76251146
Conc: 23.89 ng/ml



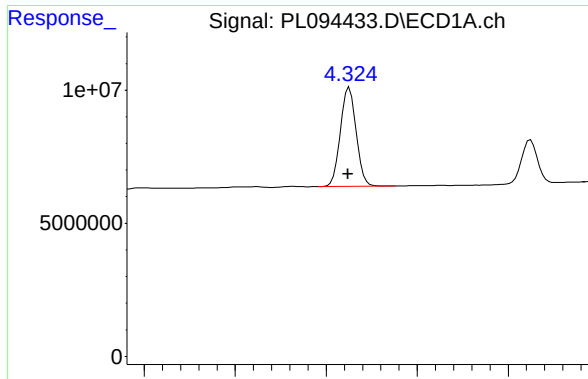
#2 alpha-BHC

R.T.: 3.993 min
Delta R.T.: 0.002 min
Response: 47370979
Conc: 12.52 ng/ml



#2 alpha-BHC

R.T.: 3.273 min
Delta R.T.: 0.001 min
Response: 55617402
Conc: 11.32 ng/ml



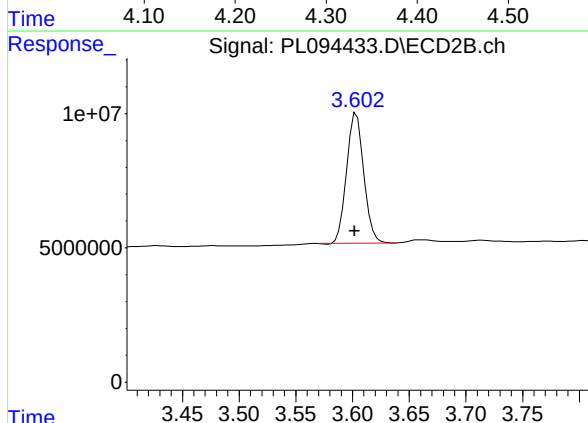
#3 gamma-BHC (Lindane)

R.T.: 4.325 min
Delta R.T.: 0.002 min
Response: 44742119
Conc: 12.11 ng/ml

Instrument :
ECD_L
ClientSampleId :
PEM

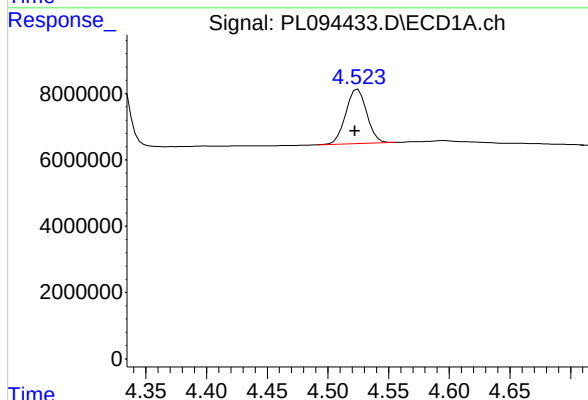
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



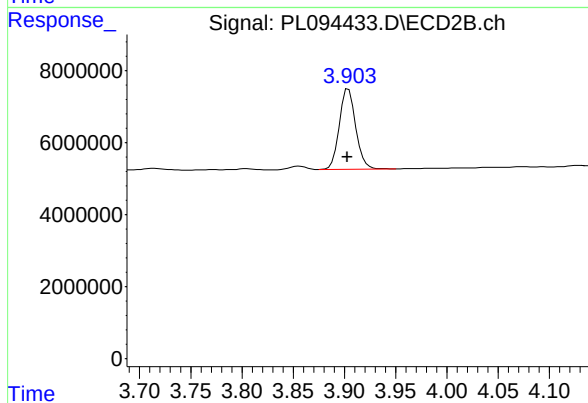
#3 gamma-BHC (Lindane)

R.T.: 3.603 min
Delta R.T.: 0.002 min
Response: 50844858
Conc: 10.80 ng/ml



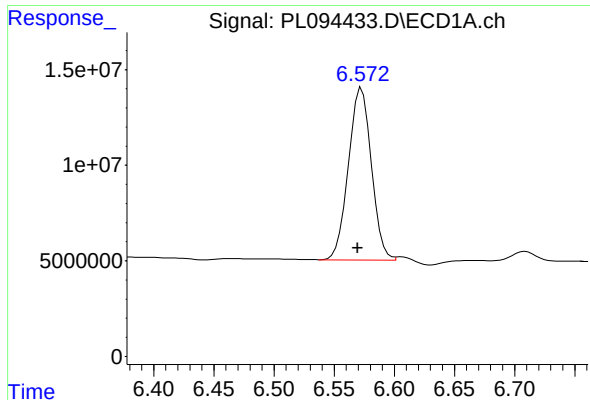
#6 beta-BHC

R.T.: 4.525 min
Delta R.T.: 0.002 min
Response: 19735266
Conc: 12.36 ng/ml



#6 beta-BHC

R.T.: 3.904 min
Delta R.T.: 0.001 min
Response: 24782848
Conc: 12.46 ng/ml



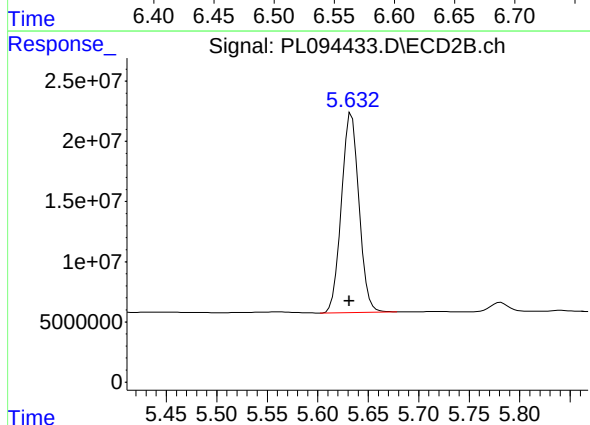
#14 Endrin

R.T.: 6.572 min
Delta R.T.: 0.002 min
Response: 120233540
Conc: 47.11 ng/ml

Instrument :
ECD_L
ClientSampleId :
PEM

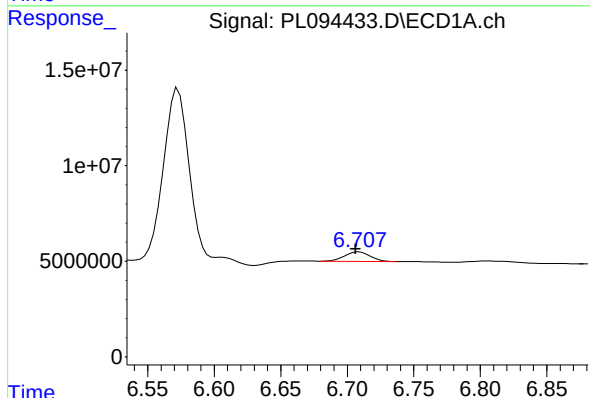
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



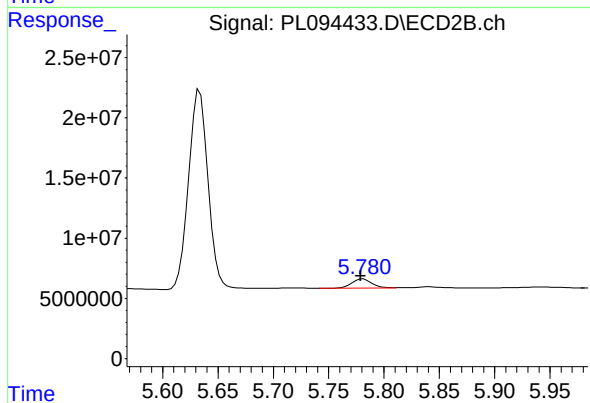
#14 Endrin

R.T.: 5.633 min
Delta R.T.: 0.002 min
Response: 201200347
Conc: 59.09 ng/ml



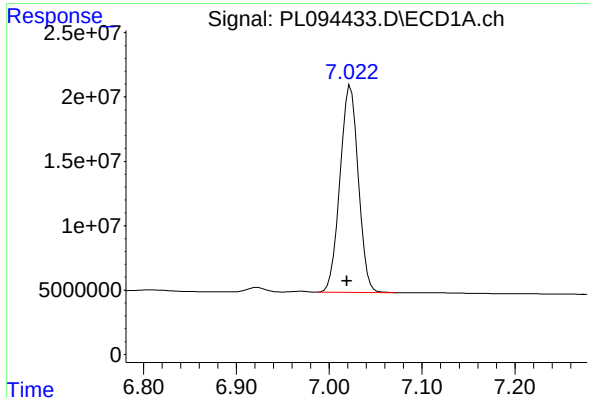
#16 4,4'-DDD

R.T.: 6.707 min
Delta R.T.: 0.001 min
Response: 6705509
Conc: 3.63 ng/ml m



#16 4,4'-DDD

R.T.: 5.781 min
Delta R.T.: 0.002 min
Response: 9311632
Conc: 2.92 ng/ml



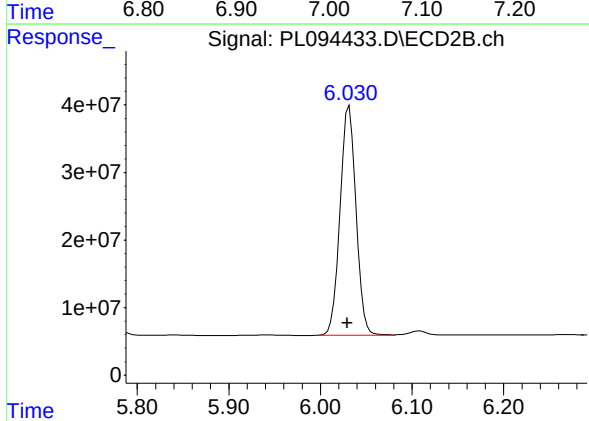
#17 4,4'-DDT

R.T.: 7.023 min
Delta R.T.: 0.004 min
Response: 220826129
Conc: 105.15 ng/ml

Instrument :
ECD_L
ClientSampleId :
PEM

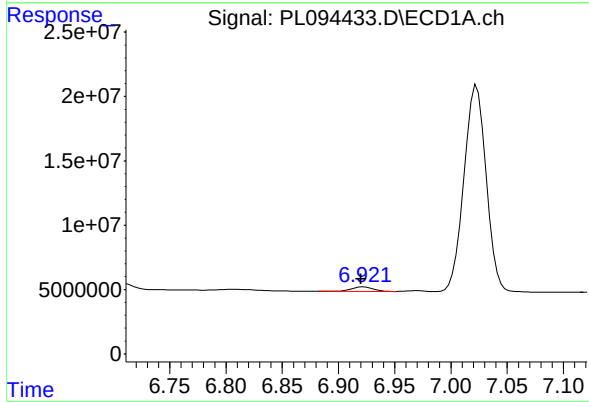
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



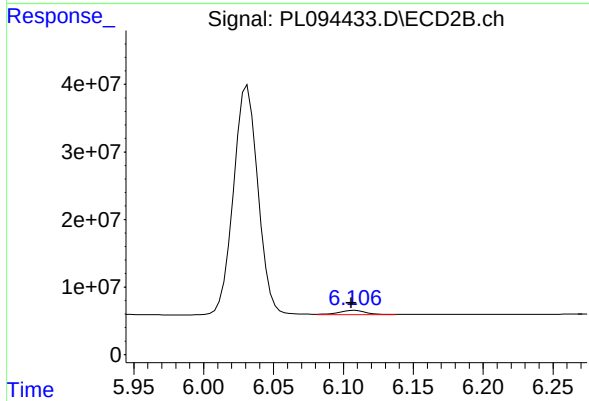
#17 4,4'-DDT

R.T.: 6.031 min
Delta R.T.: 0.002 min
Response: 412885683
Conc: 116.08 ng/ml



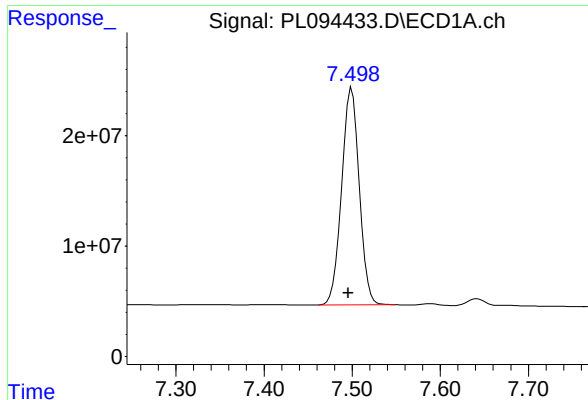
#18 Endrin aldehyde

R.T.: 6.922 min
Delta R.T.: 0.002 min
Response: 4617346
Conc: 2.37 ng/ml



#18 Endrin aldehyde

R.T.: 6.108 min
Delta R.T.: 0.002 min
Response: 8402215
Conc: 2.66 ng/ml



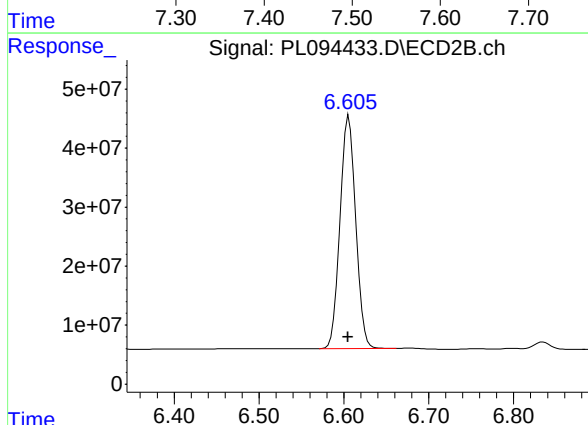
#20 Methoxychlor

R.T.: 7.500 min
Delta R.T.: 0.004 min
Response: 273482219
Conc: 246.15 ng/ml

Instrument :
ECD_L
ClientSampleId :
PEM

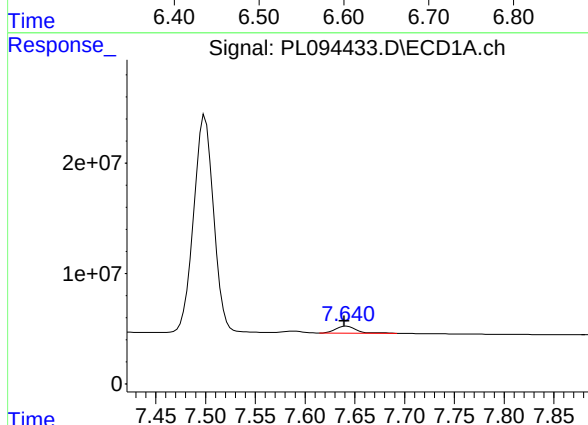
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



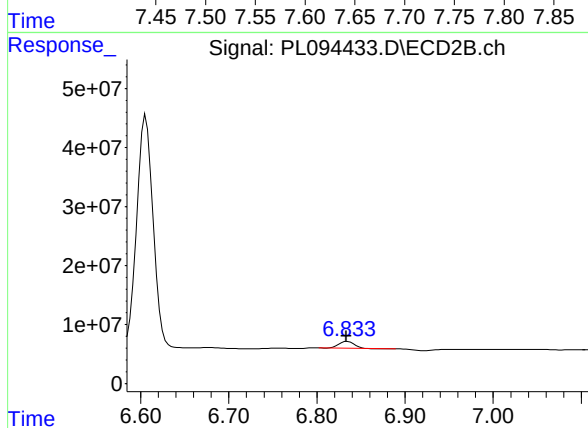
#20 Methoxychlor

R.T.: 6.606 min
Delta R.T.: 0.001 min
Response: 509149255
Conc: 260.96 ng/ml



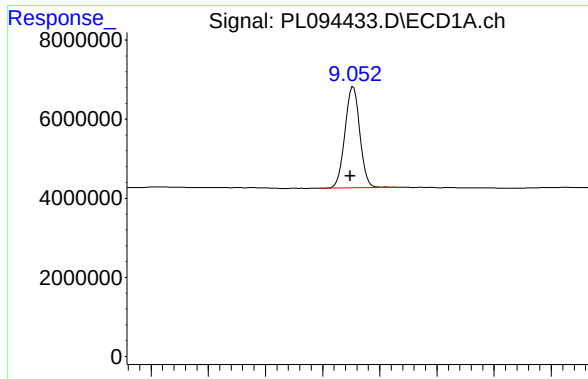
#21 Endrin ketone

R.T.: 7.642 min
Delta R.T.: 0.002 min
Response: 8910311
Conc: 3.55 ng/ml



#21 Endrin ketone

R.T.: 6.835 min
Delta R.T.: 0.002 min
Response: 13314572
Conc: 3.12 ng/ml



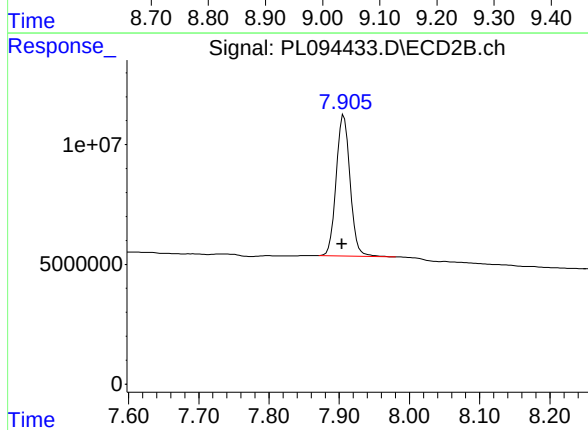
#28 Decachlorobiphenyl

R.T.: 9.053 min
Delta R.T.: 0.005 min
Response: 46460078
Conc: 21.84 ng/ml

Instrument :
ECD_L
ClientSampleId :
PEM

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



#28 Decachlorobiphenyl

R.T.: 7.907 min
Delta R.T.: 0.002 min
Response: 80858778
Conc: 21.03 ng/ml

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: **ROYF02**

Lab Code: **CHEM** Case No.: **Q1421** SAS No.: **Q1421** SDG NO.: **Q1421**

GC Column: **ZB-MR1** ID: **0.32** (mm) Initi. Calib. Date(s): **02/21/2025** **02/21/2025**

Client Sample No. (PEM): **PEM - PL094447.D** Date Analyzed: **02/28/2025**

Lab Sample No.(PEM): **PEM** Time Analyzed: **10:34**

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Decachlorobiphenyl	9.055	8.950	9.160	23.230	20.000	16.2
Tetrachloro-m-xylene	3.538	3.490	3.590	25.320	20.000	26.6
alpha-BHC	3.993	3.940	4.040	13.020	10.000	30.2
beta-BHC	4.525	4.470	4.580	12.920	10.000	29.2
gamma-BHC (Lindane)	4.326	4.280	4.380	12.660	10.000	26.6
Endrin	6.572	6.500	6.640	47.920	50.000	-4.2
4,4'-DDT	7.024	6.950	7.090	108.010	100.000	8.0
Methoxychlor	7.501	7.430	7.570	249.050	250.000	-0.4

GC Column: **ZB-MR2** ID: **0.32** (mm) Initi. Calib. Date(s): **02/21/2025** **02/21/2025**

Client Sample No. (PEM): **PEM - PL094447.D** Date Analyzed: **02/28/2025**

Lab Sample No.(PEM): **PEM** Time Analyzed: **10:34**

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Decachlorobiphenyl	7.907	7.810	8.010	22.600	20.000	13.0
Tetrachloro-m-xylene	2.772	2.720	2.820	24.990	20.000	25.0
alpha-BHC	3.274	3.220	3.320	11.690	10.000	16.9
beta-BHC	3.904	3.850	3.950	13.400	10.000	34.0
gamma-BHC (Lindane)	3.604	3.550	3.650	11.460	10.000	14.6
Endrin	5.634	5.560	5.700	62.660	50.000	25.3
4,4'-DDT	6.032	5.960	6.100	121.720	100.000	21.7
Methoxychlor	6.607	6.540	6.680	266.750	250.000	6.7

Data File: PEM
 PL094447.D Date Acquired 2/28/2025 10:34
 Operator: AR\AJ

ENDRIN BREAK DOWN

Column #1

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down
Endrin	6.57	122313534.4	137652047.1	15338512.8	11.14
Endrin aldehyde	6.92	5048999.565			
Endrin ketone	7.64	10289513.19			

Column #2

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down
Endrin #2	5.63	213329888.2	243785692.9	30455804.7	12.49
Endrin aldehyde #2	6.11	8760518.813			
Endrin ketone #2	6.83	21695285.86			

DDT BREAK DOWN

Column #1

Name	RT	Response	Response [DDT+DDE+DDD]	Response [DDE+DDD]	% Break Down
4,4'-DDT	7.02	226833661	237486119	10652458	4.49
4,4'-DDE	6.19	660843.872			
4,4'-DDD	6.71	9991614.175			

Column #2

Name	RT	Response	Response [DDT+DDE+DDD]	Response [DDE+DDD]	% Break Down
4,4'-DDT #2	6.03	432965004	447670433.3	14705429.3	3.28
4,4'-DDE #2	5.23	712380.228			
4,4'-DDD #2	5.78	13993049.07			

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022825\
 Data File : PL094447.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Feb 2025 10:34
 Operator : AR\AJ
 Sample : PEM
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 PEM

Manual Integrations APPROVED

Reviewed By : Abdul Mirza 03/03/2025
 Supervised By : mohammad ahmed 03/07/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 28 11:01:30 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
 Quant Title : GC Extractables
 QLast Update : Fri Feb 21 14:52:19 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 x0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.538	2.772	64281267	79749861	25.317	24.991
2) SA Decachlor...	9.055	7.907	49424479	86930675	23.234	22.605
Target Compounds						
2) A alpha-BHC	3.993	3.274	49250812	57471008	13.020	11.693
3) MA gamma-BHC...	4.326	3.604	46767221	53978362	12.658	11.461
6) B beta-BHC	4.525	3.904	20626335	26650991	12.916	13.400
12) B 4,4'-DDE	6.190	5.225	660844	712380	0.253m	0.170m#
14) MA Endrin	6.572	5.634	122.3E6	213.3E6	47.923m	62.657 #
16) A 4,4'-DDD	6.710	5.782	9991614	13993049	5.402	4.393
17) MA 4,4'-DDT	7.024	6.032	226.8E6	433.0E6	108.015	121.722
18) B Endrin al...	6.923	6.108	5049000	8760519	2.593	2.772
20) A Methoxychlor	7.501	6.607	276.7E6	520.4E6	249.052	266.753
21) B Endrin ke...	7.643	6.834	10289513	21695286	4.104	5.084m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022825\
Data File : PL094447.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2025 10:34
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

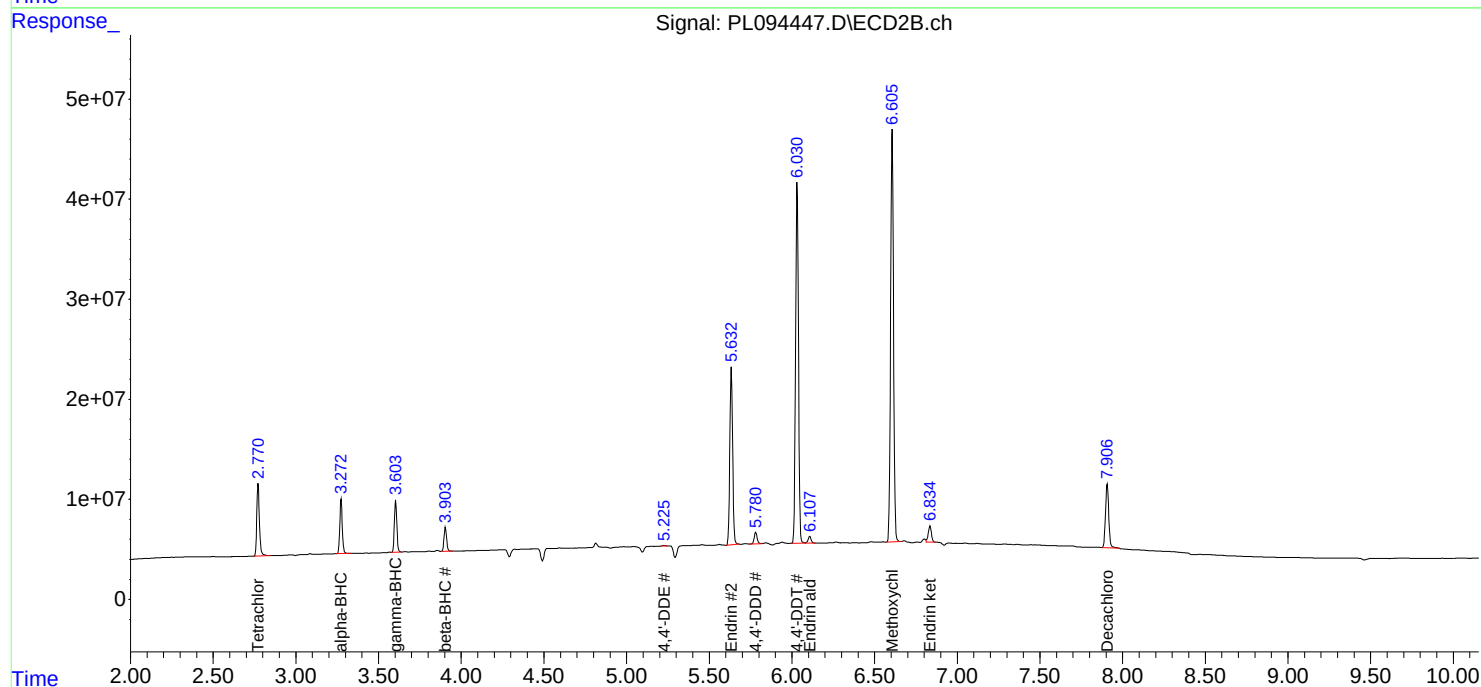
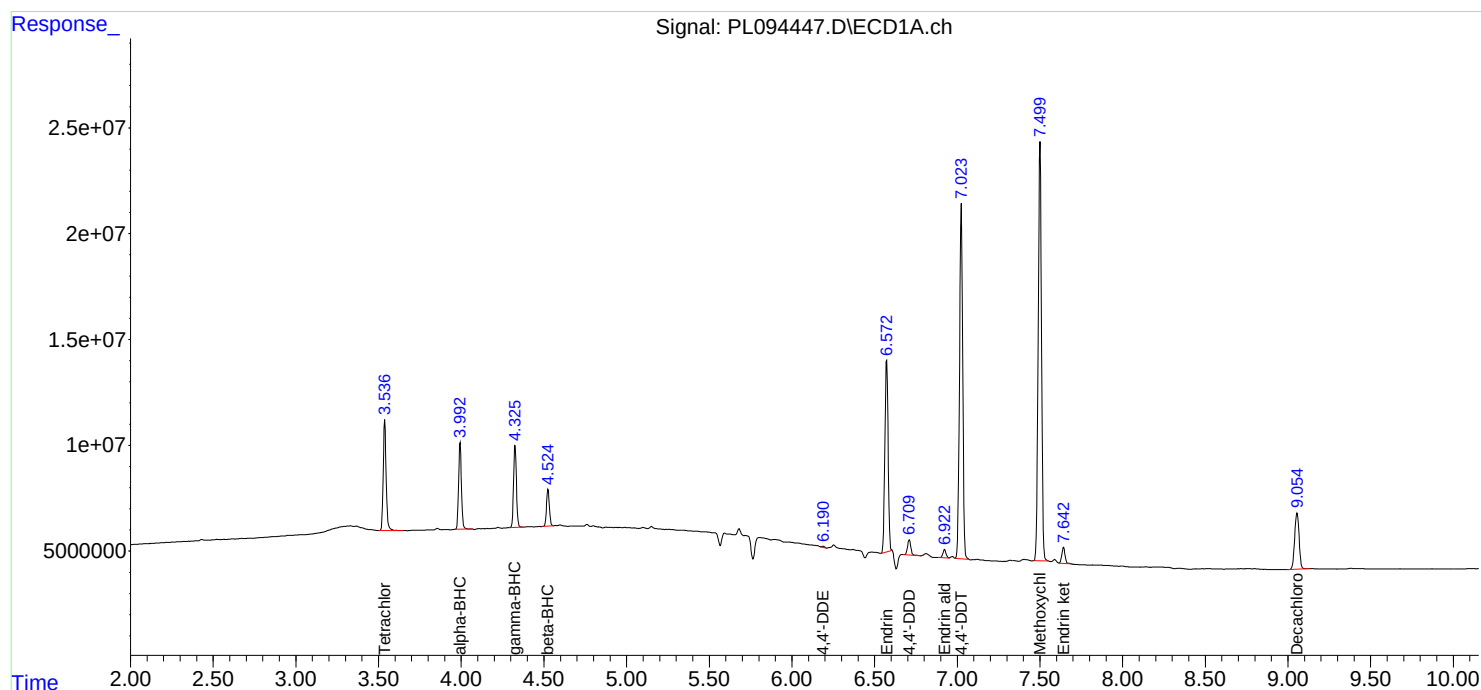
Instrument :
ECD_L
ClientSampleId :
PEM

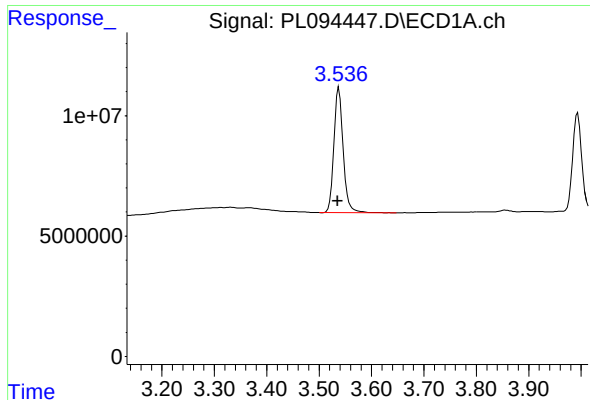
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 03/03/2025
Supervised By : mohammad ahmed 03/07/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 11:01:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 14:52:19 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 x0.25µm





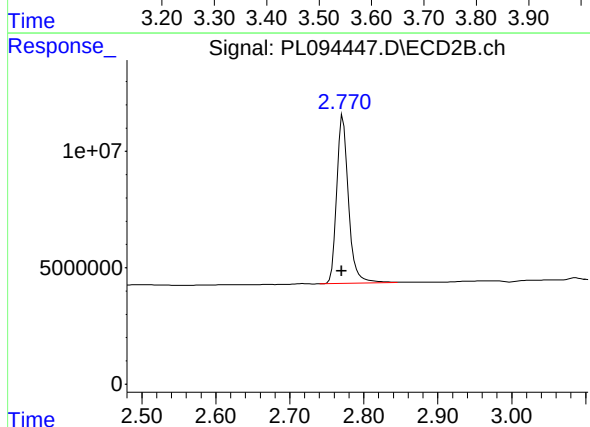
#1 Tetrachloro-m-xylene

R.T.: 3.538 min
Delta R.T.: 0.003 min
Response: 64281267
Conc: 25.32 ng/ml

Instrument :
ECD_L
ClientSampleId :
PEM

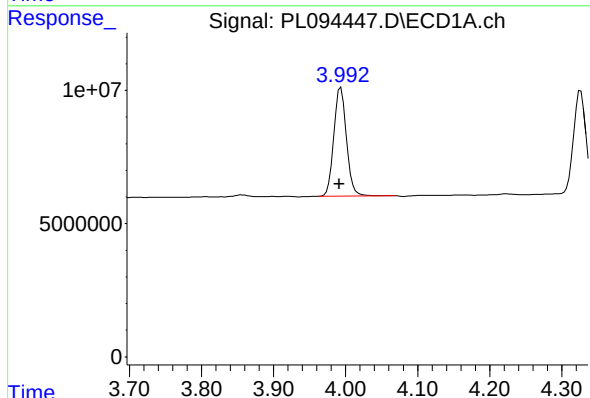
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/03/2025
Supervised By :mohammad ahmed 03/07/2025



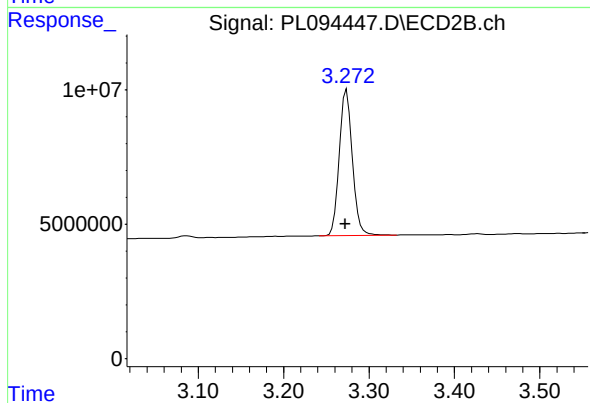
#1 Tetrachloro-m-xylene

R.T.: 2.772 min
Delta R.T.: 0.002 min
Response: 79749861
Conc: 24.99 ng/ml



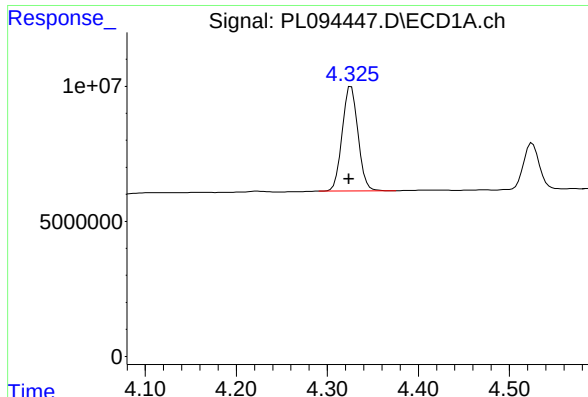
#2 alpha-BHC

R.T.: 3.993 min
Delta R.T.: 0.002 min
Response: 49250812
Conc: 13.02 ng/ml



#2 alpha-BHC

R.T.: 3.274 min
Delta R.T.: 0.002 min
Response: 57471008
Conc: 11.69 ng/ml



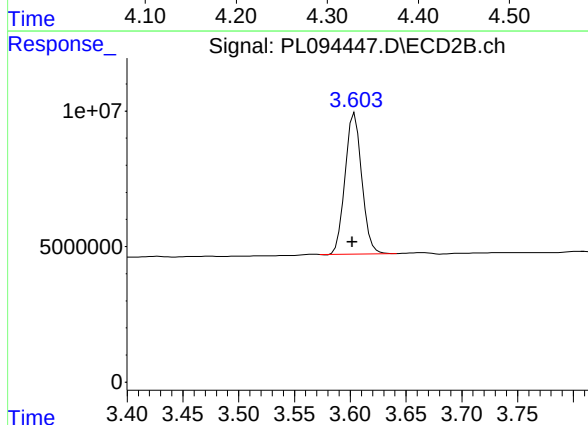
#3 gamma-BHC (Lindane)

R.T.: 4.326 min
Delta R.T.: 0.002 min
Response: 46767221
Conc: 12.66 ng/ml

Instrument :
ECD_L
ClientSampleId :
PEM

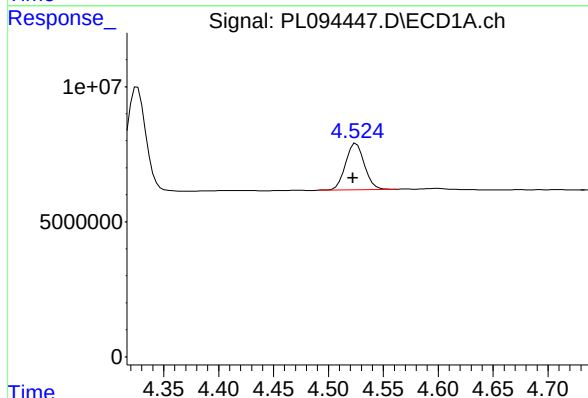
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/03/2025
Supervised By :mohammad ahmed 03/07/2025



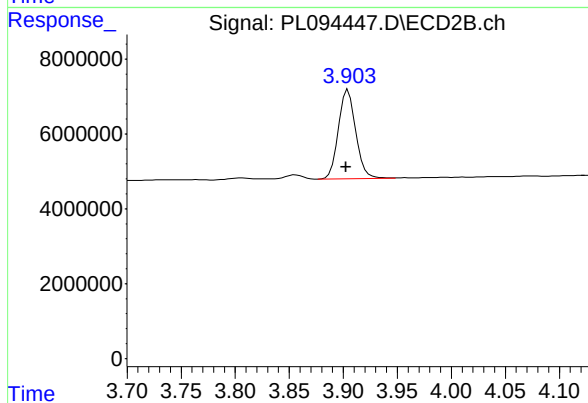
#3 gamma-BHC (Lindane)

R.T.: 3.604 min
Delta R.T.: 0.002 min
Response: 53978362
Conc: 11.46 ng/ml



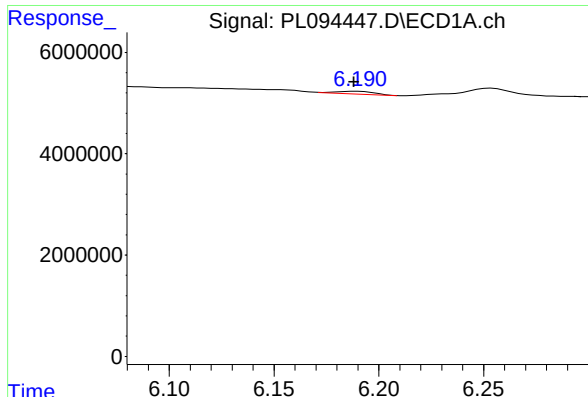
#6 beta-BHC

R.T.: 4.525 min
Delta R.T.: 0.003 min
Response: 20626335
Conc: 12.92 ng/ml



#6 beta-BHC

R.T.: 3.904 min
Delta R.T.: 0.002 min
Response: 26650991
Conc: 13.40 ng/ml



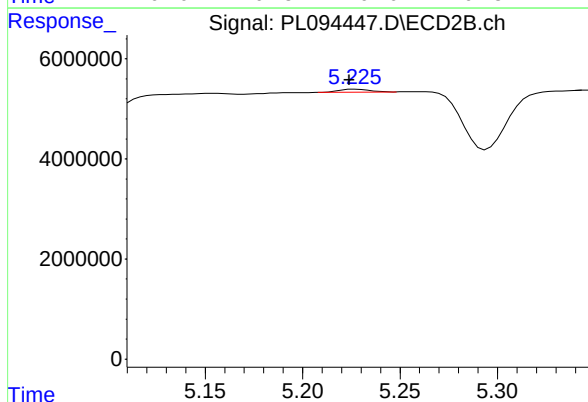
#12 4,4'-DDE

R.T.: 6.190 min
Delta R.T.: 0.002 min
Response: 660844
Conc: 0.25 ng/ml

Instrument :
ECD_L
ClientSampleId :
PEM

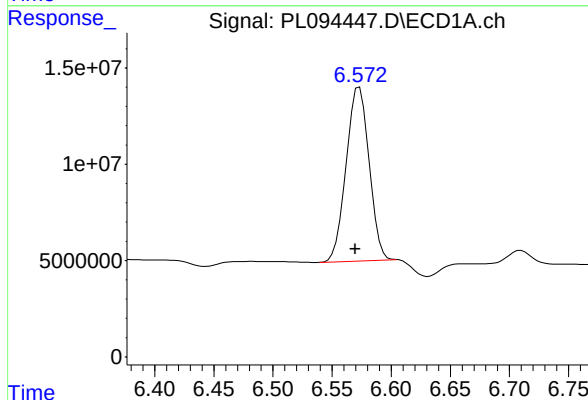
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/03/2025
Supervised By :mohammad ahmed 03/07/2025



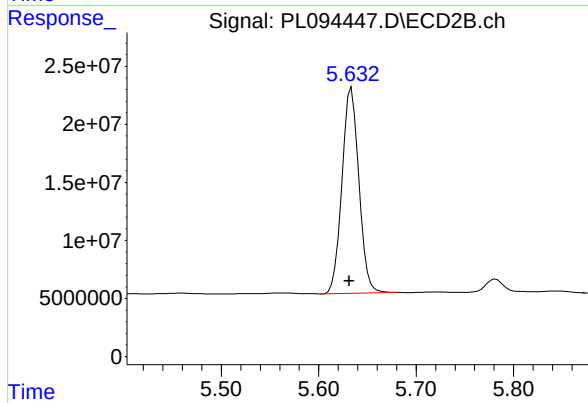
#12 4,4'-DDE

R.T.: 5.225 min
Delta R.T.: 0.001 min
Response: 712380
Conc: 0.17 ng/ml



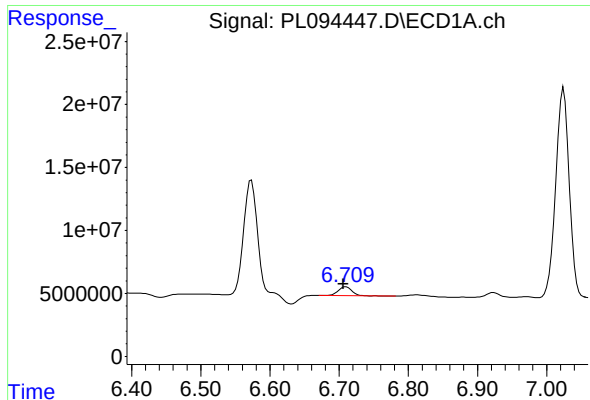
#14 Endrin

R.T.: 6.572 min
Delta R.T.: 0.002 min
Response: 122313534
Conc: 47.92 ng/ml



#14 Endrin

R.T.: 5.634 min
Delta R.T.: 0.002 min
Response: 213329888
Conc: 62.66 ng/ml



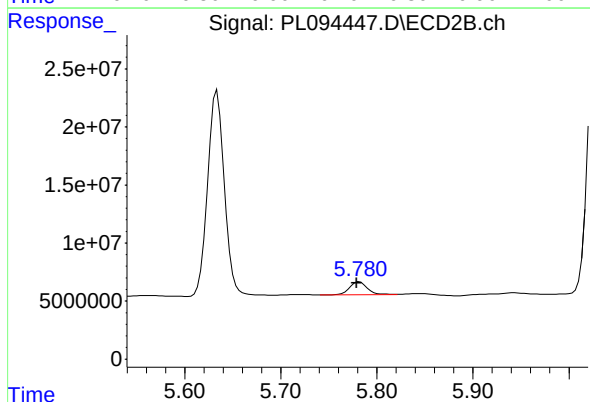
#16 4,4'-DDD

R.T.: 6.710 min
Delta R.T.: 0.004 min
Response: 9991614
Conc: 5.40 ng/ml

Instrument :
ECD_L
ClientSampleId :
PEM

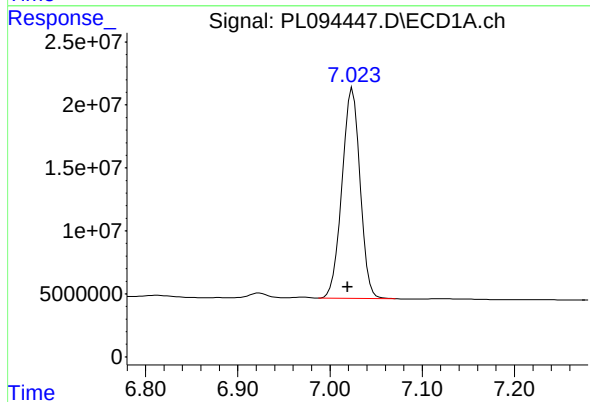
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/03/2025
Supervised By :mohammad ahmed 03/07/2025



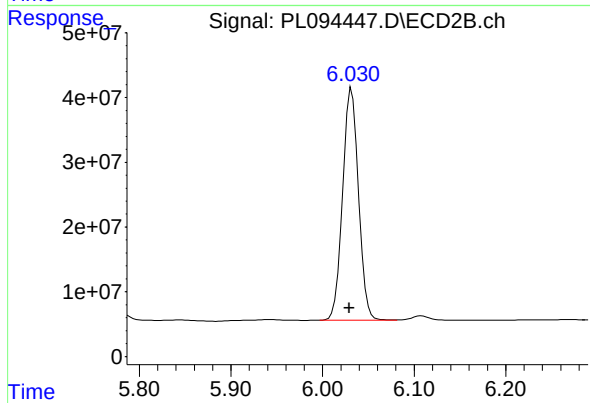
#16 4,4'-DDD

R.T.: 5.782 min
Delta R.T.: 0.003 min
Response: 13993049
Conc: 4.39 ng/ml



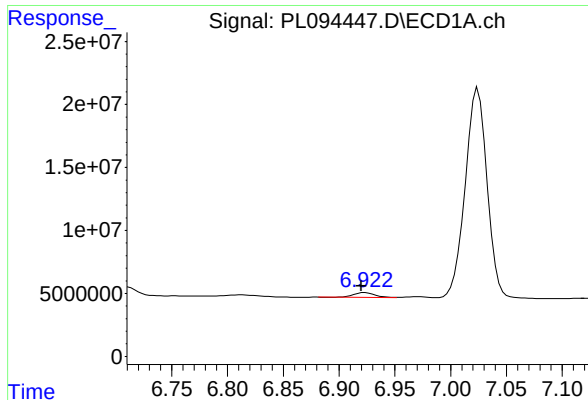
#17 4,4'-DDT

R.T.: 7.024 min
Delta R.T.: 0.005 min
Response: 226833661
Conc: 108.01 ng/ml



#17 4,4'-DDT

R.T.: 6.032 min
Delta R.T.: 0.003 min
Response: 432965004
Conc: 121.72 ng/ml



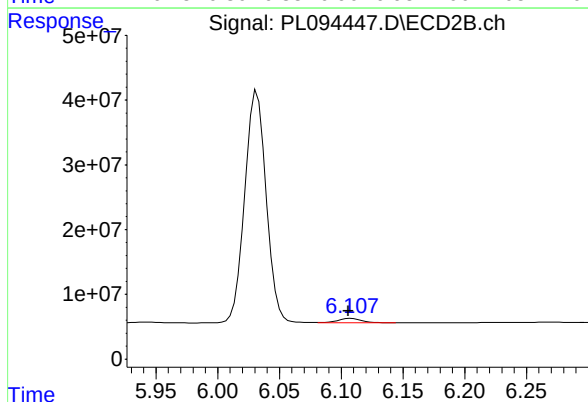
#18 Endrin aldehyde

R.T.: 6.923 min
Delta R.T.: 0.003 min
Response: 5049000
Conc: 2.59 ng/ml

Instrument :
ECD_L
ClientSampleId :
PEM

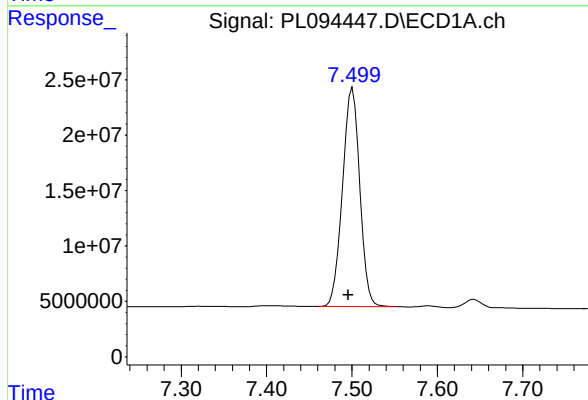
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/03/2025
Supervised By :mohammad ahmed 03/07/2025



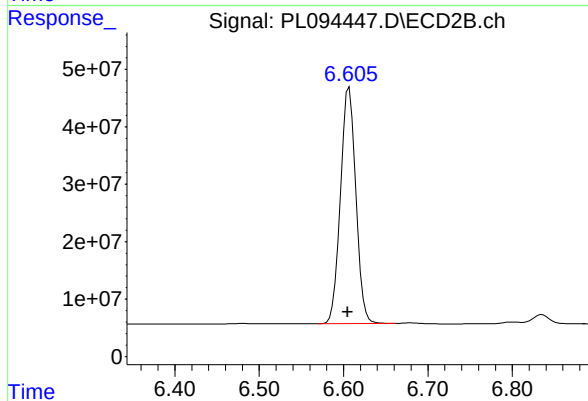
#18 Endrin aldehyde

R.T.: 6.108 min
Delta R.T.: 0.002 min
Response: 8760519
Conc: 2.77 ng/ml



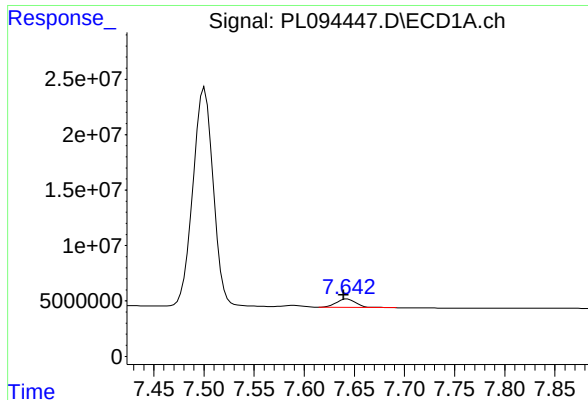
#20 Methoxychlor

R.T.: 7.501 min
Delta R.T.: 0.005 min
Response: 276706855
Conc: 249.05 ng/ml



#20 Methoxychlor

R.T.: 6.607 min
Delta R.T.: 0.002 min
Response: 520442194
Conc: 266.75 ng/ml



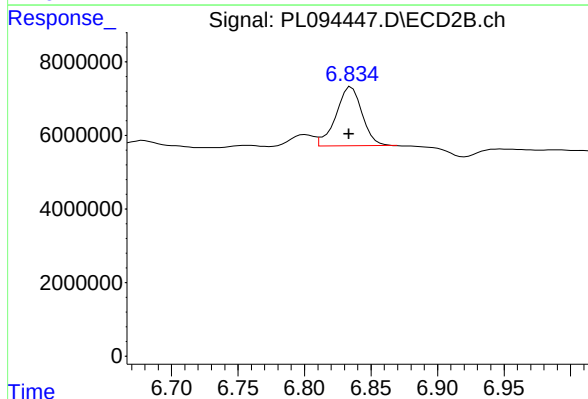
#21 Endrin ketone

R.T.: 7.643 min
Delta R.T.: 0.004 min
Response: 10289513
Conc: 4.10 ng/ml

Instrument :
ECD_L
ClientSampleId :
PEM

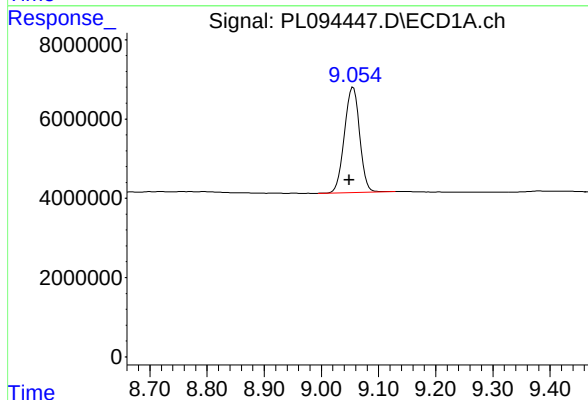
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/03/2025
Supervised By :mohammad ahmed 03/07/2025



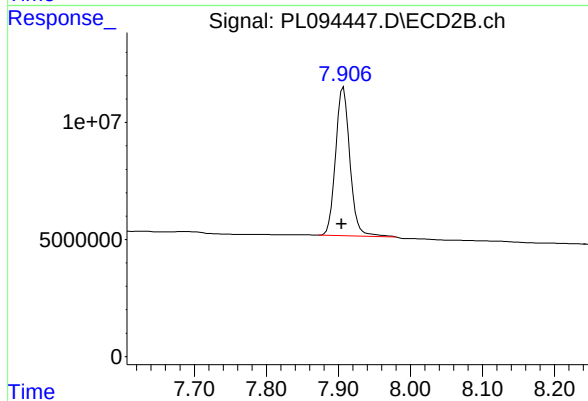
#21 Endrin ketone

R.T.: 6.834 min
Delta R.T.: 0.000 min
Response: 21695286
Conc: 5.08 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.055 min
Delta R.T.: 0.007 min
Response: 49424479
Conc: 23.23 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.907 min
Delta R.T.: 0.003 min
Response: 86930675
Conc: 22.60 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022125\
Data File : PL094325.D
Acq On : 21 Feb 2025 10:42
Operator : AR\AJ
Sample : RESCHK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e

Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Title : GC Extractables
Last Update : Fri Feb 21 14:52:19 2025
Integrator: ChemStation

RT#1	RT#2	Resolution
3.535	5.935	100.00%
5.935	6.064	98.71%
6.064	6.189	100.00%
6.189	6.340	100.00%
6.340	7.155	100.00%
7.155	7.497	100.00%
7.497	7.640	100.00%

Signal #2

2.770	4.972	100.00%
4.972	5.092	100.00%
5.092	5.225	100.00%
5.225	5.356	100.00%
5.356	6.328	100.00%
6.328	6.605	100.00%
6.605	6.833	100.00%
6.833	7.904	100.00%

PL022125.M Fri Mar 07 05:53:03 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022125\
 Data File : PL094325.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Feb 2025 10:42
 Operator : AR\AJ
 Sample : RESCHK
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 RESCHK

Manual Integrations APPROVED

Reviewed By : Abdul Mirza 02/22/2025
 Supervised By : Ankita Jodhani 02/24/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 21 13:23:21 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
 Quant Title : GC Extractables
 QLast Update : Fri Feb 21 13:20:18 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 x0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
1)	SA Tetrachlo...	3.535	2.770	47115255	57272450	18.556	17.947
28)	SA Decachlor...	9.046	7.904	40218613	69468395	18.906m	18.064
Target Compounds							
9)	A Endosulfan I	6.064	5.092	25454012	33042658	9.261	8.288
10)	B gamma-Chl...	5.934	4.972	28279655	38906610	9.632m	8.967
12)	B 4,4'-DDE	6.189	5.225	51081730	76600407	19.559	18.238
13)	MA Dieldrin	6.340	5.356	53696577	77397023	18.847	17.663
19)	B Endosulfa...	7.155	6.328	43514337	66637347	19.221	18.041
20)	A Methoxychlor	7.497	6.605	94826803	172.4E6	85.349	88.362
21)	B Endrin ke...	7.640	6.833	47136580	75716012	18.803	17.742

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022125\
Data File : PL094325.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2025 10:42
Operator : AR\AJ
Sample : RESCHK
Misc :
ALS Vial : 4 Sample Multiplier: 1

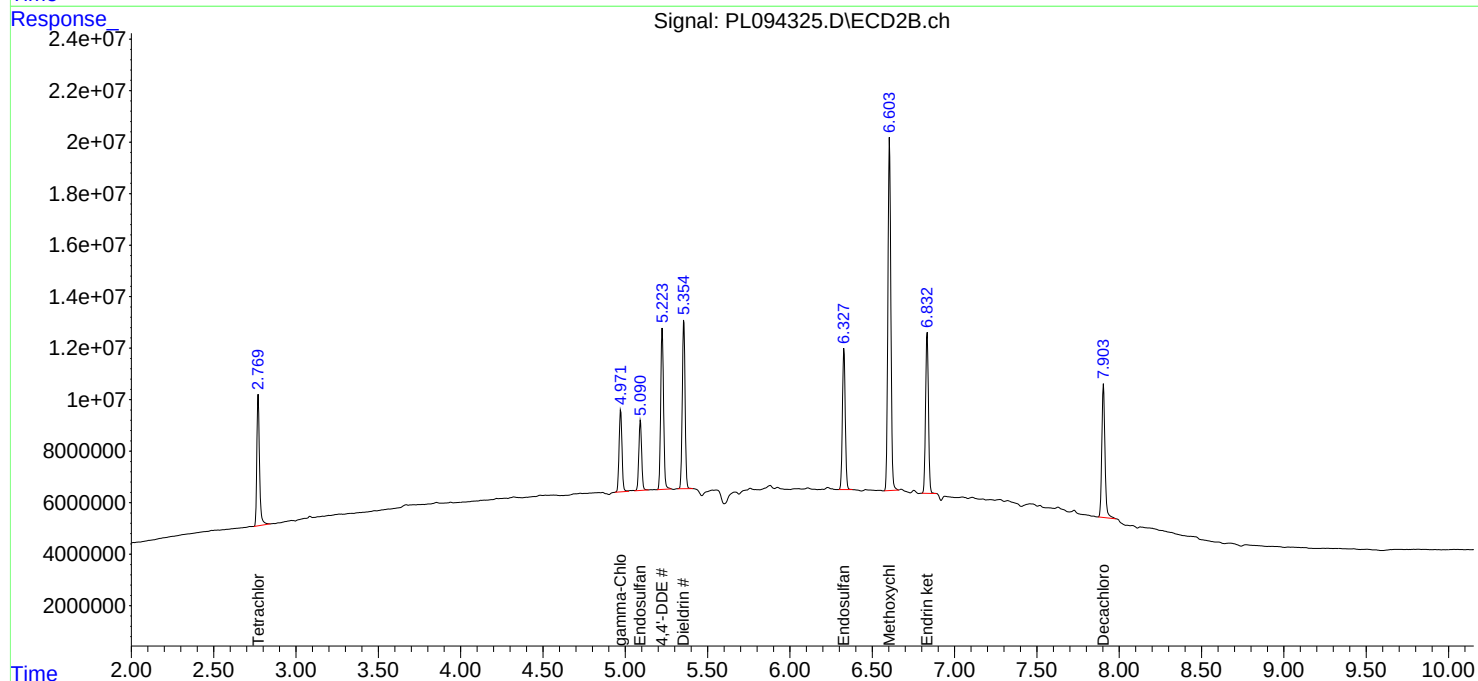
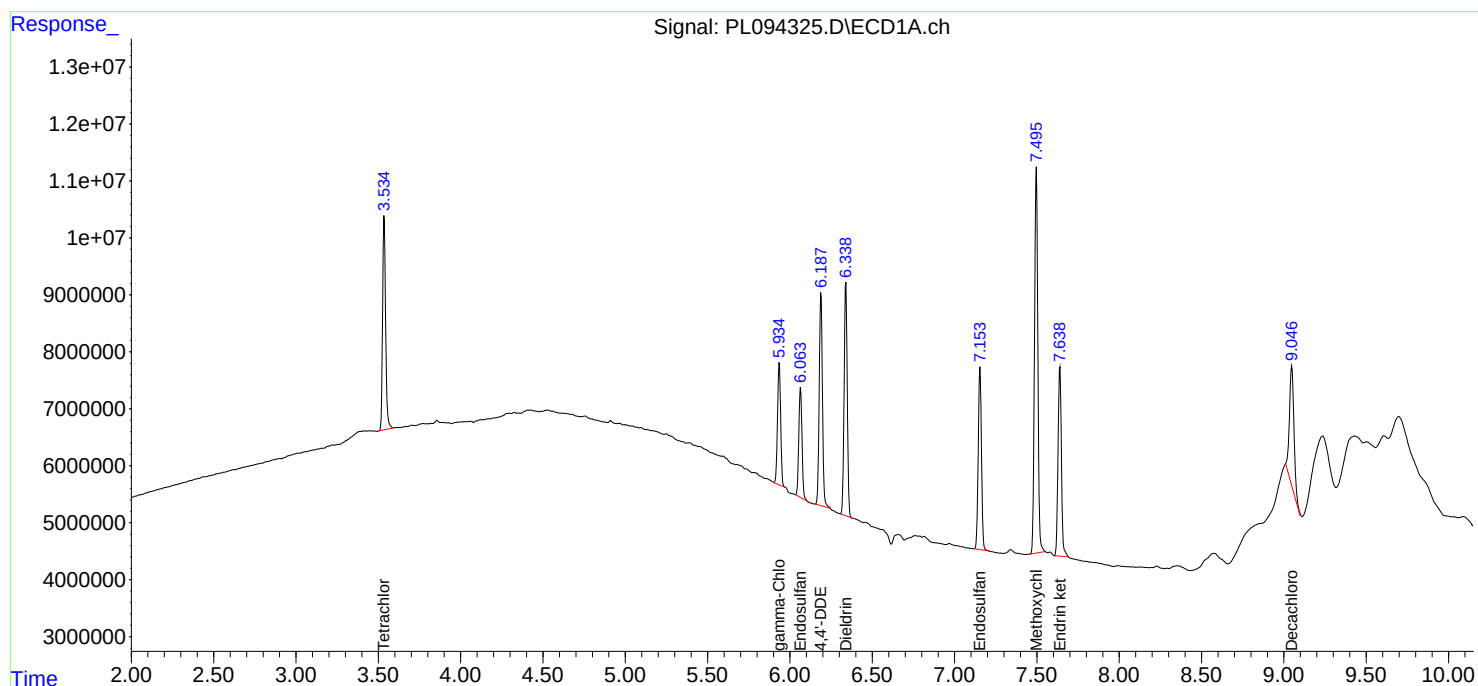
Instrument :
ECD_L
ClientSampleId :
RESCHK

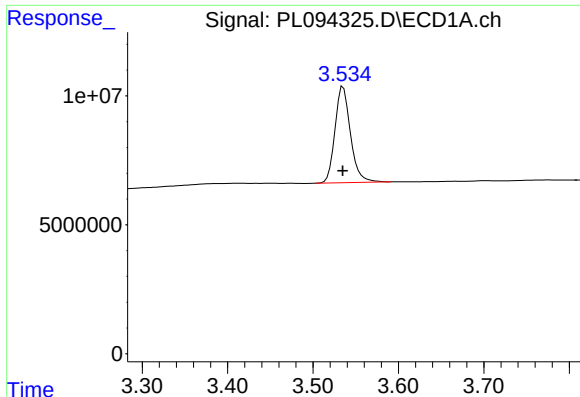
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 02/22/2025
Supervised By : Ankita Jodhani 02/24/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 21 13:23:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 13:20:18 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 x0.25µm





#1 Tetrachloro-m-xylene

R.T.: 3.535 min
Delta R.T.: 0.000 min
Response: 47115255
Conc: 18.56 ng/ml

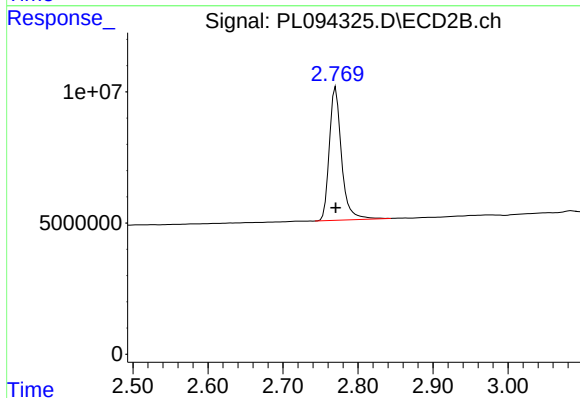
Instrument :

ECD_L

ClientSampleId :
RESCHK

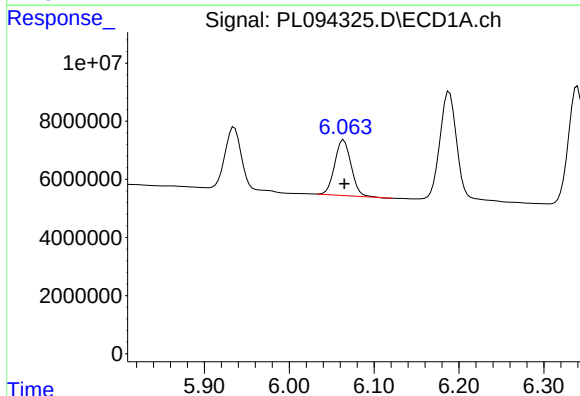
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/22/2025
Supervised By :Ankita Jodhani 02/24/2025



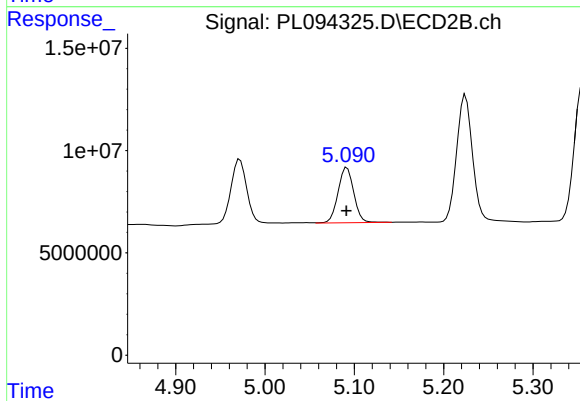
#1 Tetrachloro-m-xylene

R.T.: 2.770 min
Delta R.T.: 0.000 min
Response: 57272450
Conc: 17.95 ng/ml



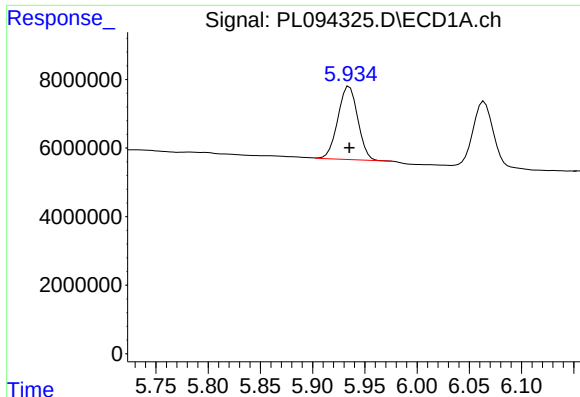
#9 Endosulfan I

R.T.: 6.064 min
Delta R.T.: 0.000 min
Response: 25454012
Conc: 9.26 ng/ml



#9 Endosulfan I

R.T.: 5.092 min
Delta R.T.: 0.000 min
Response: 33042658
Conc: 8.29 ng/ml



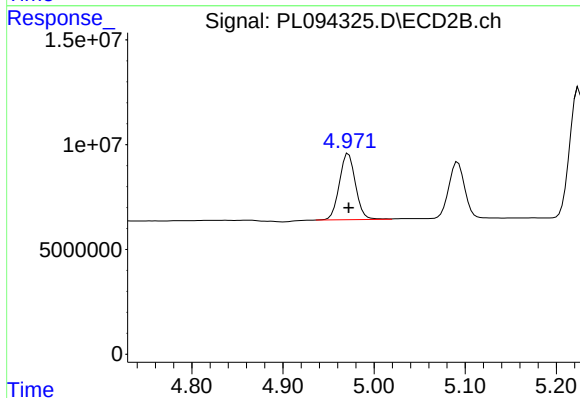
#10 gamma-Chlordane

R.T.: 5.934 min
Delta R.T.: -0.002 min
Response: 28279655
Conc: 9.63 ng/ml

Instrument :
ECD_L
ClientSampleId :
RESCHK

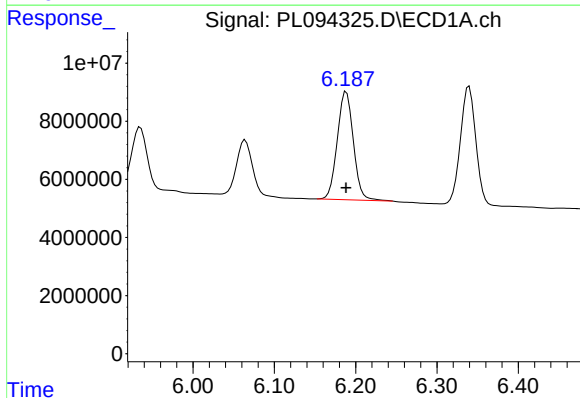
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/22/2025
Supervised By :Ankita Jodhani 02/24/2025



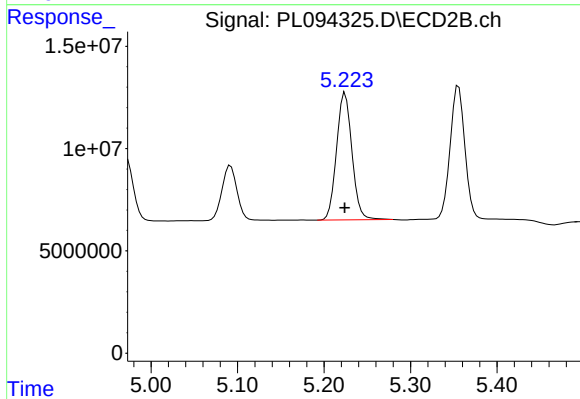
#10 gamma-Chlordane

R.T.: 4.972 min
Delta R.T.: 0.000 min
Response: 38906610
Conc: 8.97 ng/ml



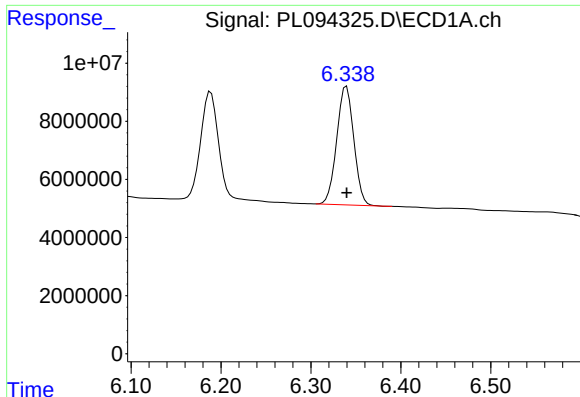
#12 4,4'-DDE

R.T.: 6.189 min
Delta R.T.: 0.000 min
Response: 51081730
Conc: 19.56 ng/ml



#12 4,4'-DDE

R.T.: 5.225 min
Delta R.T.: 0.000 min
Response: 76600407
Conc: 18.24 ng/ml



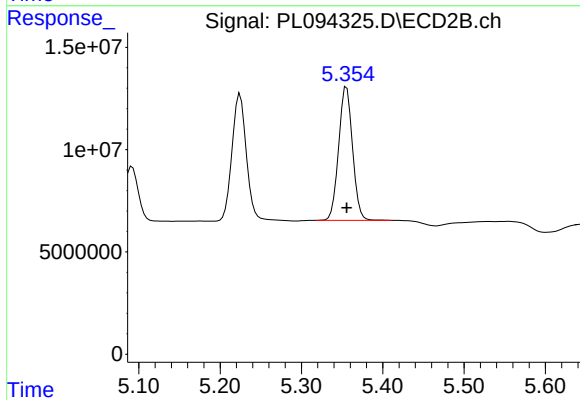
#13 Dieldrin

R.T.: 6.340 min
Delta R.T.: 0.000 min
Response: 53696577
Conc: 18.85 ng/ml

Instrument :
ECD_L
ClientSampleId :
RESCHK

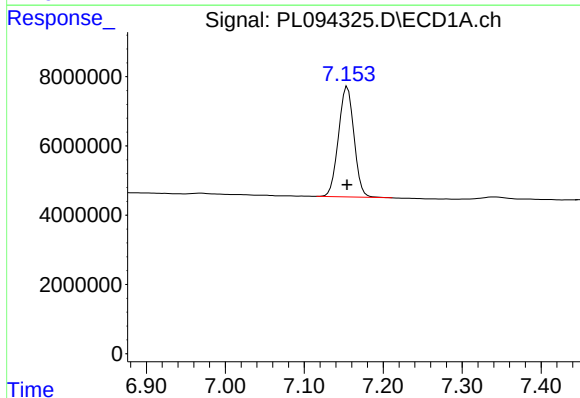
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/22/2025
Supervised By :Ankita Jodhani 02/24/2025



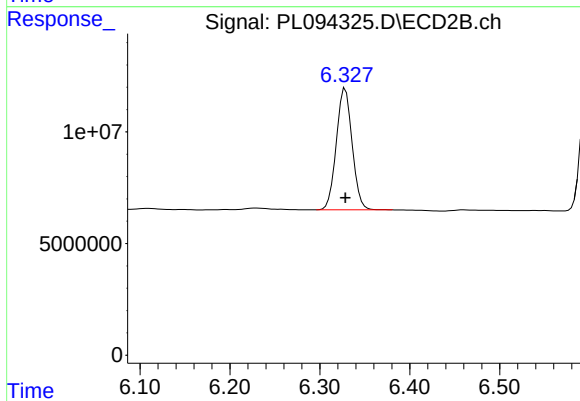
#13 Dieldrin

R.T.: 5.356 min
Delta R.T.: 0.000 min
Response: 77397023
Conc: 17.66 ng/ml



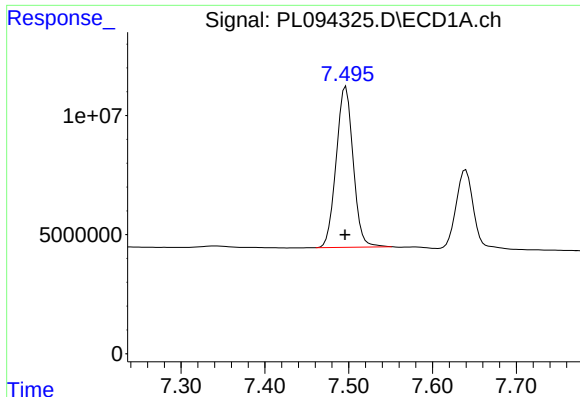
#19 Endosulfan Sulfate

R.T.: 7.155 min
Delta R.T.: 0.000 min
Response: 43514337
Conc: 19.22 ng/ml



#19 Endosulfan Sulfate

R.T.: 6.328 min
Delta R.T.: 0.000 min
Response: 66637347
Conc: 18.04 ng/ml



#20 Methoxychlor

R.T.: 7.497 min
Delta R.T.: 0.001 min
Response: 94826803
Conc: 85.35 ng/ml

Instrument :

ECD_L

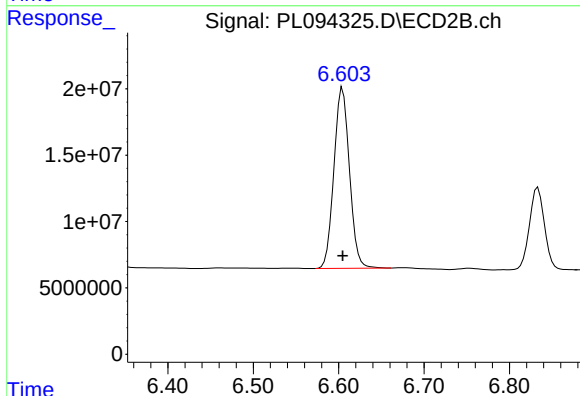
ClientSampleId :

RESCHK

Manual Integrations

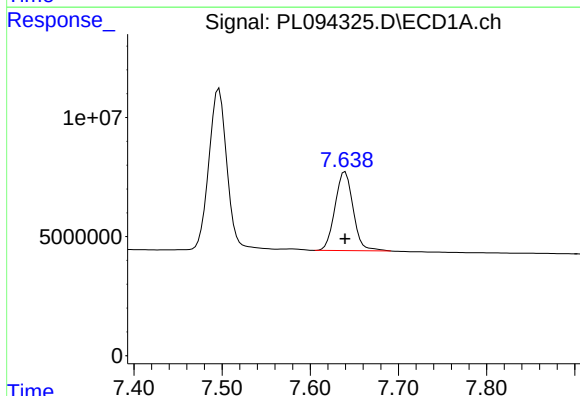
APPROVED

Reviewed By :Abdul Mirza 02/22/2025
Supervised By :Ankita Jodhani 02/24/2025



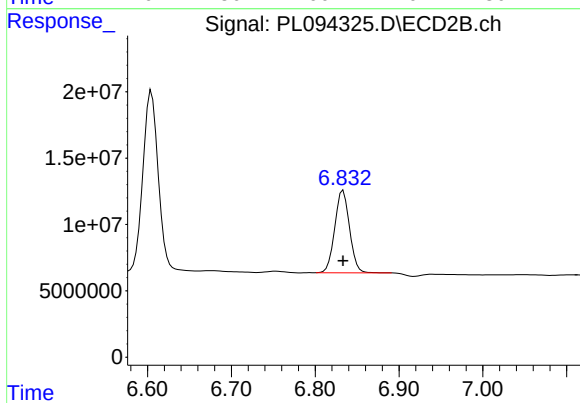
#20 Methoxychlor

R.T.: 6.605 min
Delta R.T.: 0.000 min
Response: 172396739
Conc: 88.36 ng/ml



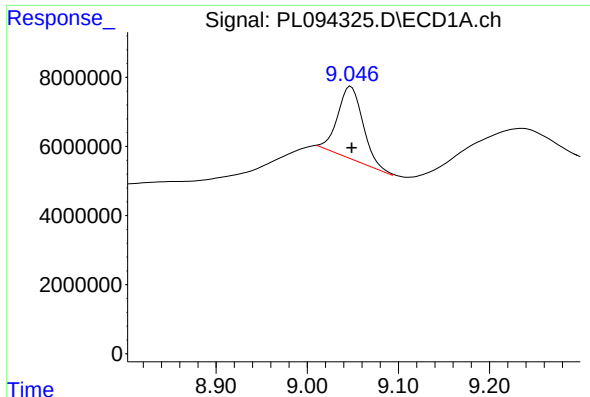
#21 Endrin ketone

R.T.: 7.640 min
Delta R.T.: 0.000 min
Response: 47136580
Conc: 18.80 ng/ml



#21 Endrin ketone

R.T.: 6.833 min
Delta R.T.: 0.000 min
Response: 75716012
Conc: 17.74 ng/ml



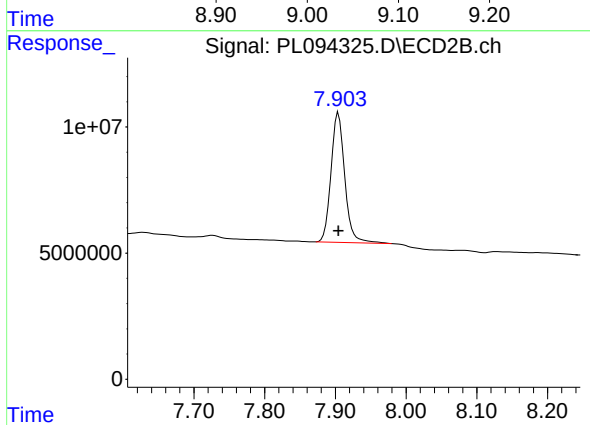
#28 Decachlorobiphenyl

R.T.: 9.046 min
Delta R.T.: -0.002 min
Response: 40218613
Conc: 18.91 ng/ml

Instrument :
ECD_L
ClientSampleId :
RESCHK

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 02/22/2025
Supervised By :Ankita Jodhani 02/24/2025



#28 Decachlorobiphenyl

R.T.: 7.904 min
Delta R.T.: 0.000 min
Response: 69468395
Conc: 18.06 ng/ml

Analytical Sequence

Client: Weston Solutions, Inc.

SDG No.: Q1421

Project: RFP 905

Instrument ID: ECD_L

GC Column: ZB-MR1

ID: 0.32 (mm)

Inst. Calib. Date(s): 02/21/2025

02/21/2025

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

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
IBLK	IBLK	02/21/2025	10:15	PL094323.D	9.05	3.54
PEM	PEM	02/21/2025	10:29	PL094324.D	9.05	3.54
RESCHK	RESCHK	02/21/2025	10:42	PL094325.D	9.05	3.54
PSTDICCC100	PSTDICCC100	02/21/2025	10:56	PL094326.D	9.05	3.54
PSTDICCC075	PSTDICCC075	02/21/2025	11:10	PL094327.D	9.05	3.54
PSTDICCC050	PSTDICCC050	02/21/2025	11:23	PL094328.D	9.05	3.54
PSTDICCC025	PSTDICCC025	02/21/2025	11:37	PL094329.D	9.05	3.54
PSTDICCC005	PSTDICCC005	02/21/2025	11:51	PL094330.D	9.05	3.54
PCHLORICC500	PCHLORICC500	02/21/2025	12:32	PL094333.D	9.05	3.54
PTOXICC500	PTOXICC500	02/21/2025	13:40	PL094338.D	9.05	3.54
IBLK	IBLK	02/27/2025	19:19	PL094432.D	9.05	3.54
PEM	PEM	02/27/2025	19:33	PL094433.D	9.05	3.54
PSTDCCC050	PSTDCCC050	02/27/2025	19:46	PL094434.D	9.05	3.54
PB166896BL	PB166896BL	02/27/2025	20:27	PL094435.D	9.05	3.54
PB166896BS	PB166896BS	02/27/2025	20:41	PL094436.D	9.05	3.54
PB166896TB	PB166896TB	02/27/2025	20:54	PL094437.D	9.05	3.54
P001-CLAY-CF01-01	Q1421-04	02/27/2025	21:08	PL094438.D	9.05	3.54
P001-CLAY-CF01-01MS	Q1421-05MS	02/27/2025	21:21	PL094439.D	9.06	3.54
P001-CLAY-CF01-01MSD	Q1421-06MSD	02/27/2025	21:35	PL094440.D	9.05	3.54
P001-CLAY-CF01-02	Q1421-08	02/27/2025	21:48	PL094441.D	9.05	3.54
P001-CLAY-CF02-01	Q1421-10	02/27/2025	22:02	PL094442.D	9.06	3.54
IBLK	IBLK	02/27/2025	22:16	PL094443.D	9.06	3.54
PSTDCCC050	PSTDCCC050	02/27/2025	22:29	PL094444.D	9.05	3.54
PEM	PEM	02/28/2025	10:34	PL094447.D	9.06	3.54
IBLK	IBLK	02/28/2025	14:19	PL094459.D	9.06	3.54
PSTDCCC050	PSTDCCC050	02/28/2025	14:33	PL094460.D	9.05	3.54
P001-CLAY-CF01-02RE	Q1421-08RE	02/28/2025	14:47	PL094461.D	9.06	3.54
IBLK	IBLK	02/28/2025	15:01	PL094462.D	9.06	3.54
PSTDCCC050	PSTDCCC050	02/28/2025	15:14	PL094463.D	9.05	3.54

Analytical Sequence

Client: Weston Solutions, Inc.

SDG No.: Q1421

Project: RFP 905

Instrument ID: ECD_L

GC Column: ZB-MR2

ID: 0.32 (mm)

Inst. Calib. Date(s): 02/21/2025 02/21/2025

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

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
IBLK	IBLK	02/21/2025	10:15	PL094323.D	7.91	2.77
PEM	PEM	02/21/2025	10:29	PL094324.D	7.90	2.77
RESCHK	RESCHK	02/21/2025	10:42	PL094325.D	7.90	2.77
PSTDICCC100	PSTDICCC100	02/21/2025	10:56	PL094326.D	7.90	2.77
PSTDICCC075	PSTDICCC075	02/21/2025	11:10	PL094327.D	7.90	2.77
PSTDICCC050	PSTDICCC050	02/21/2025	11:23	PL094328.D	7.90	2.77
PSTDICCC025	PSTDICCC025	02/21/2025	11:37	PL094329.D	7.91	2.77
PSTDICCC005	PSTDICCC005	02/21/2025	11:51	PL094330.D	7.90	2.77
PCHLORICC500	PCHLORICC500	02/21/2025	12:32	PL094333.D	7.90	2.77
PTOXICC500	PTOXICC500	02/21/2025	13:40	PL094338.D	7.90	2.77
IBLK	IBLK	02/27/2025	19:19	PL094432.D	7.91	2.77
PEM	PEM	02/27/2025	19:33	PL094433.D	7.91	2.77
PSTDCCC050	PSTDCCC050	02/27/2025	19:46	PL094434.D	7.91	2.77
PB166896BL	PB166896BL	02/27/2025	20:27	PL094435.D	7.91	2.77
PB166896BS	PB166896BS	02/27/2025	20:41	PL094436.D	7.91	2.77
PB166896TB	PB166896TB	02/27/2025	20:54	PL094437.D	7.91	2.77
P001-CLAY-CF01-01	Q1421-04	02/27/2025	21:08	PL094438.D	7.91	2.77
P001-CLAY-CF01-01MS	Q1421-05MS	02/27/2025	21:21	PL094439.D	7.91	2.77
P001-CLAY-CF01-01MSD	Q1421-06MSD	02/27/2025	21:35	PL094440.D	7.91	2.77
P001-CLAY-CF01-02	Q1421-08	02/27/2025	21:48	PL094441.D	7.91	2.77
P001-CLAY-CF02-01	Q1421-10	02/27/2025	22:02	PL094442.D	7.91	2.77
IBLK	IBLK	02/27/2025	22:16	PL094443.D	7.91	2.77
PSTDCCC050	PSTDCCC050	02/27/2025	22:29	PL094444.D	7.91	2.77
PEM	PEM	02/28/2025	10:34	PL094447.D	7.91	2.77
IBLK	IBLK	02/28/2025	14:19	PL094459.D	7.91	2.77
PSTDCCC050	PSTDCCC050	02/28/2025	14:33	PL094460.D	7.91	2.77
P001-CLAY-CF01-02RE	Q1421-08RE	02/28/2025	14:47	PL094461.D	7.91	2.77
IBLK	IBLK	02/28/2025	15:01	PL094462.D	7.91	2.77
PSTDCCC050	PSTDCCC050	02/28/2025	15:14	PL094463.D	7.91	2.77

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

P001-CLAY-CF01-01MS

Contract: ROYF02

Lab Code: CHEM

Case No.: Q1421

SAS No.: Q1421

SDG NO.: Q1421

Lab Sample ID: Q1421-05MS

Date(s) Analyzed: 02/27/2025

02/27/2025

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

GC Column: (1): ZB-MR1

ID: 0.32 (mm)

GC Column: (2): ZB-MR2

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.71	6.66	6.76	0.67	0.7
	2	5.78	5.73	5.83	0.67	
4,4'-DDT	1	7.02	6.97	7.07	0.61	3.1
	2	6.03	5.98	6.08	0.63	
alpha-BHC	1	3.99	3.94	4.04	0.57	3.5
	2	3.27	3.22	3.32	0.59	
Aldrin	1	5.26	5.21	5.31	0.54	2.3
	2	4.22	4.17	4.27	0.55	
beta-BHC	1	4.53	4.48	4.58	0.56	5.8
	2	3.90	3.85	3.95	0.60	
delta-BHC	1	4.77	4.72	4.82	0.58	1.5
	2	4.13	4.08	4.18	0.59	
Endosulfan I	1	6.07	6.02	6.12	0.57	5.4
	2	5.09	5.04	5.14	0.60	
alpha-Chlordane	1	6.02	5.97	6.07	0.58	3.2
	2	5.04	4.99	5.09	0.60	
4,4'-DDE	1	6.19	6.14	6.24	0.60	1.8
	2	5.23	5.18	5.28	0.61	
Dieldrin	1	6.34	6.29	6.39	0.58	5.4
	2	5.36	5.31	5.41	0.61	
Endosulfan II	1	6.79	6.74	6.84	0.56	12.6
	2	5.93	5.88	5.98	0.63	
Endrin aldehyde	1	6.92	6.87	6.97	0.54	4.5
	2	6.11	6.06	6.16	0.57	
Endosulfan sulfate	1	7.16	7.11	7.21	0.56	7.1
	2	6.33	6.28	6.38	0.61	
Methoxychlor	1	7.50	7.45	7.55	0.58	2.4
	2	6.61	6.56	6.66	0.60	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

P001-CLAY-CF01-01MS

Contract: ROYF02

Lab Code: CHEM Case No.: Q1421

SAS No.: Q1421 SDG NO.: Q1421

Lab Sample ID: Q1421-05MS

Date(s) Analyzed: 02/27/2025 02/27/2025

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

GC Column: (1): ZB-MR1 ID: 0.32 (mm)

GC Column: (2): ZB-MR2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endrin ketone	1	7.64	7.59	7.69	0.56	9.3
	2	6.84	6.79	6.89	0.61	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	0.57	3.5
	2	3.60	3.55	3.65	0.59	
Heptachlor	1	4.91	4.86	4.96	0.56	1.8
	2	3.94	3.89	3.99	0.57	
Heptachlor epoxide	1	5.68	5.63	5.73	0.57	2.1
	2	4.72	4.67	4.77	0.58	
gamma-Chlordane	1	5.94	5.89	5.99	0.58	4.1
	2	4.97	4.92	5.02	0.60	
Endrin	1	6.57	6.52	6.62	0.54	26.4
	2	5.63	5.58	5.68	0.70	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

P001-CLAY-CF01-01MSD

Contract: ROYF02

Lab Code: CHEM Case No.: Q1421

SAS No.: Q1421 SDG NO.: Q1421

Lab Sample ID: Q1421-06MSD

Date(s) Analyzed: 02/27/2025 02/27/2025

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

GC Column: (1): ZB-MR1 ID: 0.32 (mm)

GC Column: (2): ZB-MR2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endrin ketone	1	7.64	7.59	7.69	0.57	8.2
	2	6.84	6.79	6.89	0.62	
alpha-BHC	1	3.99	3.94	4.04	0.58	3.1
	2	3.27	3.22	3.32	0.60	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	0.58	1.3
	2	3.60	3.55	3.65	0.59	
Heptachlor	1	4.91	4.86	4.96	0.57	0.9
	2	3.94	3.89	3.99	0.58	
Aldrin	1	5.26	5.21	5.31	0.54	1.9
	2	4.22	4.17	4.27	0.55	
beta-BHC	1	4.53	4.48	4.58	0.57	4.9
	2	3.90	3.85	3.95	0.60	
delta-BHC	1	4.77	4.72	4.82	0.59	0.5
	2	4.13	4.08	4.18	0.60	
Heptachlor epoxide	1	5.68	5.63	5.73	0.58	1.6
	2	4.72	4.67	4.77	0.59	
Endosulfan I	1	6.07	6.02	6.12	0.58	4.5
	2	5.09	5.04	5.14	0.61	
gamma-Chlordane	1	5.94	5.89	5.99	0.59	3.5
	2	4.97	4.92	5.02	0.61	
alpha-Chlordane	1	6.02	5.97	6.07	0.59	2.7
	2	5.04	4.99	5.09	0.60	
4,4'-DDE	1	6.19	6.14	6.24	0.61	0.5
	2	5.23	5.18	5.28	0.61	
Dieldrin	1	6.34	6.29	6.39	0.59	4.2
	2	5.36	5.31	5.41	0.61	
Endrin	1	6.57	6.52	6.62	0.55	25.7
	2	5.63	5.58	5.68	0.71	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

P001-CLAY-CF01-01MSD

Contract: ROYF02

Lab Code: CHEM Case No.: Q1421

SAS No.: Q1421 SDG NO.: Q1421

Lab Sample ID: Q1421-06MSD

Date(s) Analyzed: 02/27/2025 02/27/2025

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

GC Column: (1): ZB-MR1 ID: 0.32 (mm)

GC Column: (2): ZB-MR2 ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan II	1	6.79	6.74	6.84	0.57	12.1
	2	5.93	5.88	5.98	0.64	
4,4'-DDD	1	6.71	6.66	6.76	0.68	1.1
	2	5.78	5.73	5.83	0.67	
4,4'-DDT	1	7.02	6.97	7.07	0.62	2.9
	2	6.03	5.98	6.08	0.64	
Endrin aldehyde	1	6.92	6.87	6.97	0.55	4.2
	2	6.11	6.06	6.16	0.57	
Endosulfan sulfate	1	7.16	7.11	7.21	0.57	6.3
	2	6.33	6.28	6.38	0.61	
Methoxychlor	1	7.50	7.45	7.55	0.59	1.9
	2	6.61	6.56	6.66	0.60	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB166896BS

Contract: ROYF02

Lab Code: CHEM

Case No.: Q1421

SAS No.: Q1421

SDG NO.: Q1421

Lab Sample ID: PB166896BS

Date(s) Analyzed: 02/27/2025

02/27/2025

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

GC Column: (1): ZB-MR1

ID: 0.32 (mm)

GC Column: (2): ZB-MR2

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.71	6.66	6.76	0.56	0.6
	2	5.78	5.73	5.83	0.56	
4,4'-DDT	1	7.02	6.97	7.07	0.51	2
	2	6.03	5.98	6.08	0.52	
alpha-BHC	1	3.99	3.94	4.04	0.47	2.2
	2	3.27	3.22	3.32	0.48	
Aldrin	1	5.26	5.21	5.31	0.47	1.4
	2	4.22	4.17	4.27	0.48	
beta-BHC	1	4.52	4.47	4.57	0.48	3.1
	2	3.90	3.85	3.95	0.50	
alpha-Chlordane	1	6.02	5.97	6.07	0.49	1.8
	2	5.04	4.99	5.09	0.50	
4,4'-DDE	1	6.19	6.14	6.24	0.52	0.3
	2	5.23	5.18	5.28	0.52	
Endosulfan II	1	6.79	6.74	6.84	0.47	11.8
	2	5.93	5.88	5.98	0.53	
Endrin aldehyde	1	6.92	6.87	6.97	0.48	2.4
	2	6.11	6.06	6.16	0.49	
Endosulfan sulfate	1	7.16	7.11	7.21	0.48	5.7
	2	6.33	6.28	6.38	0.51	
Methoxychlor	1	7.50	7.45	7.55	0.50	2.7
	2	6.61	6.56	6.66	0.51	
Endrin ketone	1	7.64	7.59	7.69	0.49	9.4
	2	6.84	6.79	6.89	0.53	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	0.46	3.2
	2	3.60	3.55	3.65	0.48	
Heptachlor	1	4.91	4.86	4.96	0.50	0.2
	2	3.94	3.89	3.99	0.50	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB166896BS

Contract: ROYF02

Lab Code: CHEM

Case No.: Q1421

SAS No.: Q1421

SDG NO.: Q1421

Lab Sample ID: PB166896BS

Date(s) Analyzed: 02/27/2025

02/27/2025

Instrument ID (1): ECD_L

Instrument ID (2): ECD_L

GC Column: (1): ZB-MR1

ID: 0.32 (mm)

GC Column: (2): ZB-MR2

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
delta-BHC	1	4.77	4.72	4.82	0.48	1.2
	2	4.13	4.08	4.18	0.47	
Heptachlor epoxide	1	5.68	5.63	5.73	0.49	2
	2	4.72	4.67	4.77	0.50	
Endosulfan I	1	6.07	6.02	6.12	0.49	3.9
	2	5.09	5.04	5.14	0.51	
gamma-Chlordane	1	5.94	5.89	5.99	0.49	3.4
	2	4.97	4.92	5.02	0.51	
Dieldrin	1	6.34	6.29	6.39	0.49	3
	2	5.36	5.31	5.41	0.51	
Endrin	1	6.57	6.52	6.62	0.45	24.1
	2	5.63	5.58	5.68	0.57	



QC SAMPLE DATA

- 1
- 2
- 3
- 4
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- 6
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Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:		
Project:	RFP 905		Date Received:		
Client Sample ID:	PB166896BL		SDG No.:	Q1421	
Lab Sample ID:	PB166896BL		Matrix:	WATER	
Analytical Method:	SW8081		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	SPLP Pesticide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094435.D	1	02/27/25 09:10	02/27/25 20:27	PB166896

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	24.2		43 - 140	121%	SPK: 20
877-09-8	Tetrachloro-m-xylene	24.2		77 - 126	121%	SPK: 20

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:		
Project:	RFP 905		Date Received:		
Client Sample ID:	PB166896BL		SDG No.:	Q1421	
Lab Sample ID:	PB166896BL		Matrix:	WATER	
Analytical Method:	SW8081		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	SPLP Pesticide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094435.D	1	02/27/25 09:10	02/27/25 20:27	PB166896

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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_L\Data\PL022725\
Data File : PL094435.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2025 20:27
Operator : AR\AJ
Sample : PB166896BL
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB166896BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 01:54:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 14:52:19 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 x0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.538	2.772	61340351	74143974	24.158	23.234
28) SA Decachlor...	9.054	7.907	51473272	93051619	24.197	24.197

Target Compounds

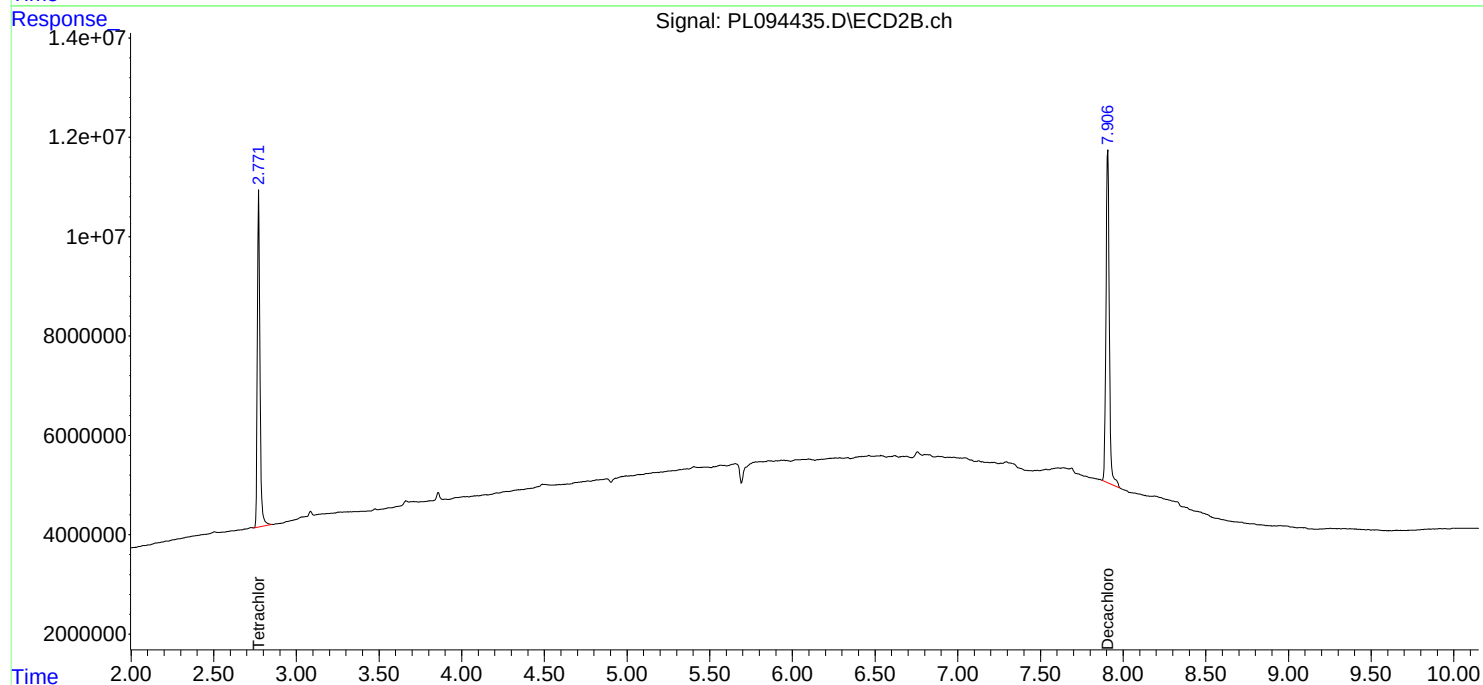
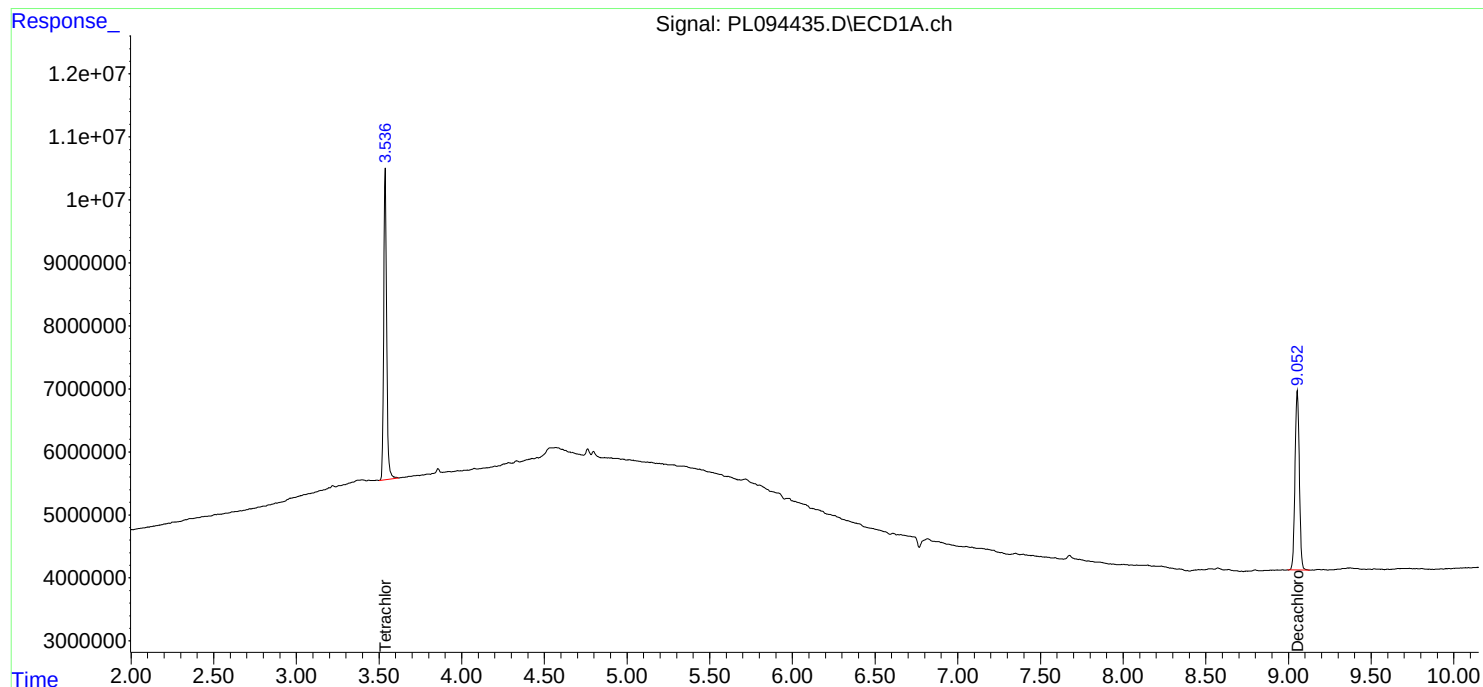
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

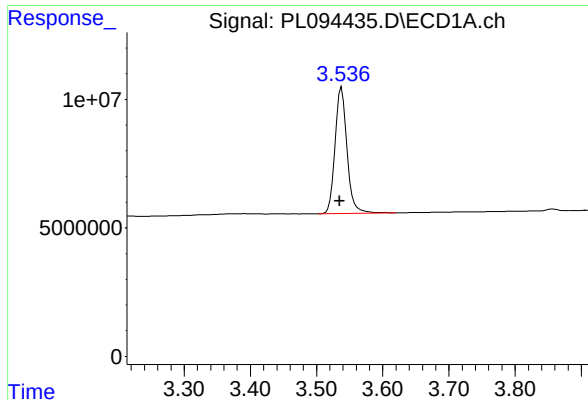
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022725\
Data File : PL094435.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2025 20:27
Operator : AR\AJ
Sample : PB166896BL
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB166896BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 01:54:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 14:52:19 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 x0.25µm

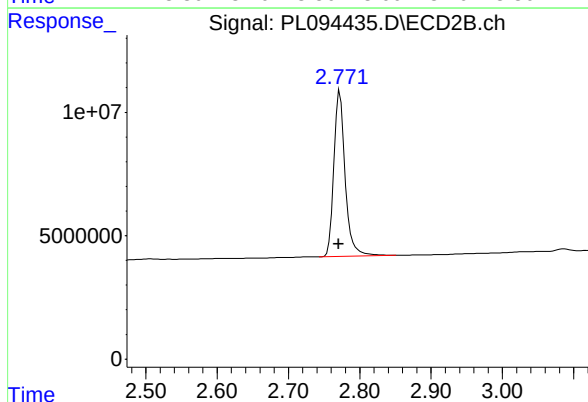




#1 Tetrachloro-m-xylene

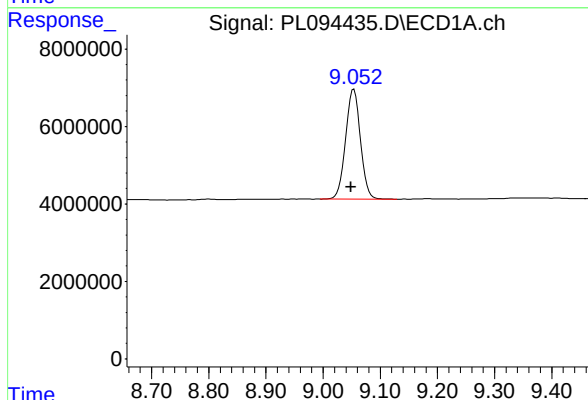
R.T.: 3.538 min
Delta R.T.: 0.003 min
Response: 61340351
Conc: 24.16 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB166896BL



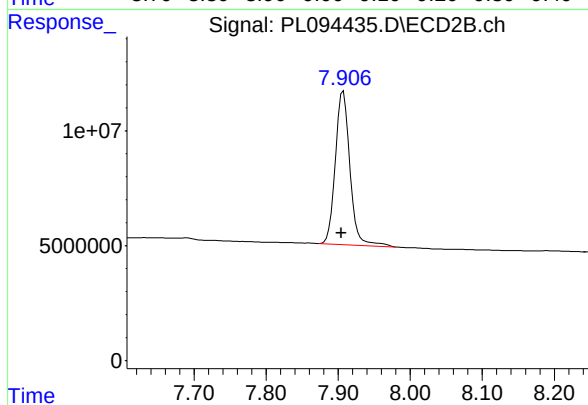
#1 Tetrachloro-m-xylene

R.T.: 2.772 min
Delta R.T.: 0.002 min
Response: 74143974
Conc: 23.23 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.054 min
Delta R.T.: 0.005 min
Response: 51473272
Conc: 24.20 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.907 min
Delta R.T.: 0.003 min
Response: 93051619
Conc: 24.20 ng/ml

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	02/21/25	
Project:	RFP 905		Date Received:	02/21/25	
Client Sample ID:	PIBLK-PL094323.D		SDG No.:	Q1421	
Lab Sample ID:	I.BLK-PL094323.D		Matrix:	WATER	
Analytical Method:	SW8081		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	SPLP Pesticide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094323.D	1		02/21/25	pl022125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	24.7		43 - 140	123%	SPK: 20
877-09-8	Tetrachloro-m-xylene	23.3		77 - 126	116%	SPK: 20

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	02/21/25	
Project:	RFP 905		Date Received:	02/21/25	
Client Sample ID:	PIBLK-PL094323.D		SDG No.:	Q1421	
Lab Sample ID:	I.BLK-PL094323.D		Matrix:	WATER	
Analytical Method:	SW8081		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	SPLP Pesticide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094323.D	1		02/21/25	pl022125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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_L\Data\PL022125\
Data File : PL094323.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2025 10:15
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 21 13:22:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 13:20:18 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 x0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
1)	SA Tetrachlo...	3.537	2.772	59107304	72879952	23.279	22.838
28)	SA Decachlor...	9.050	7.905	52511368	90629628	24.685	23.567

Target Compounds

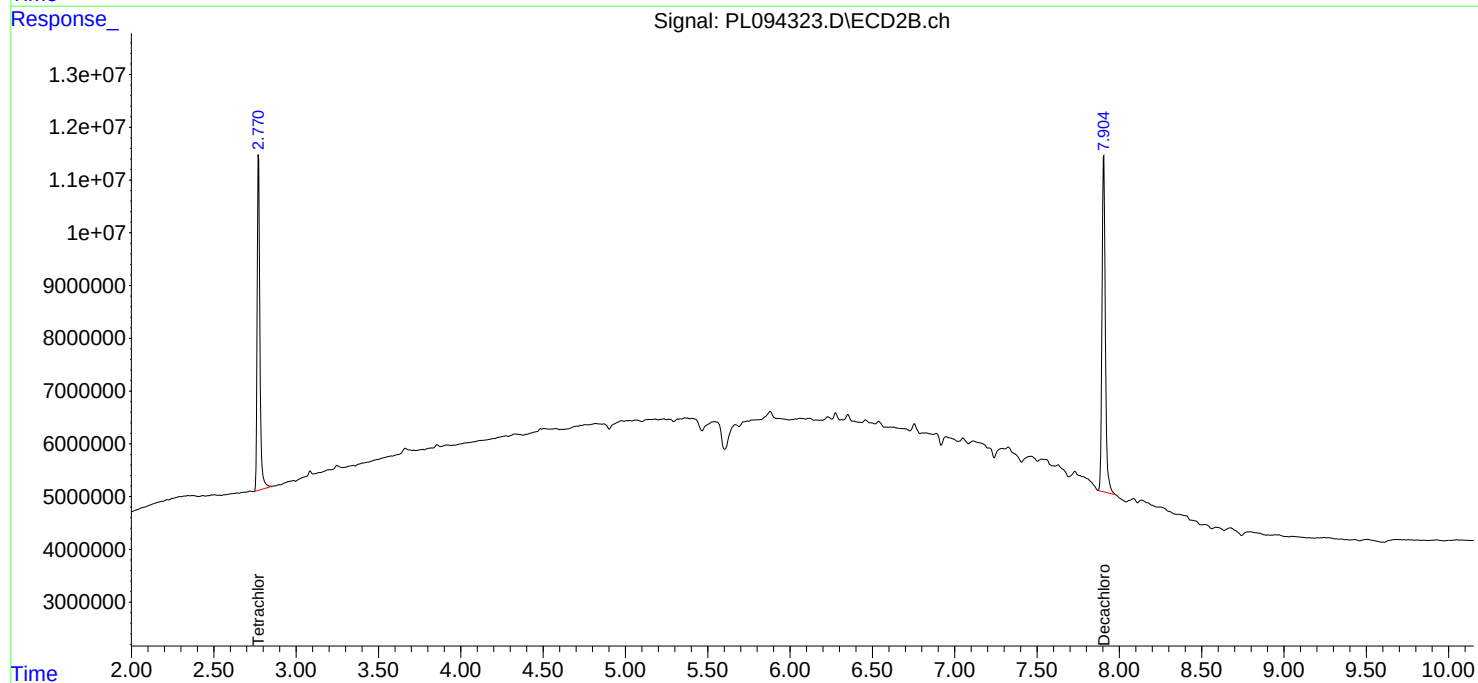
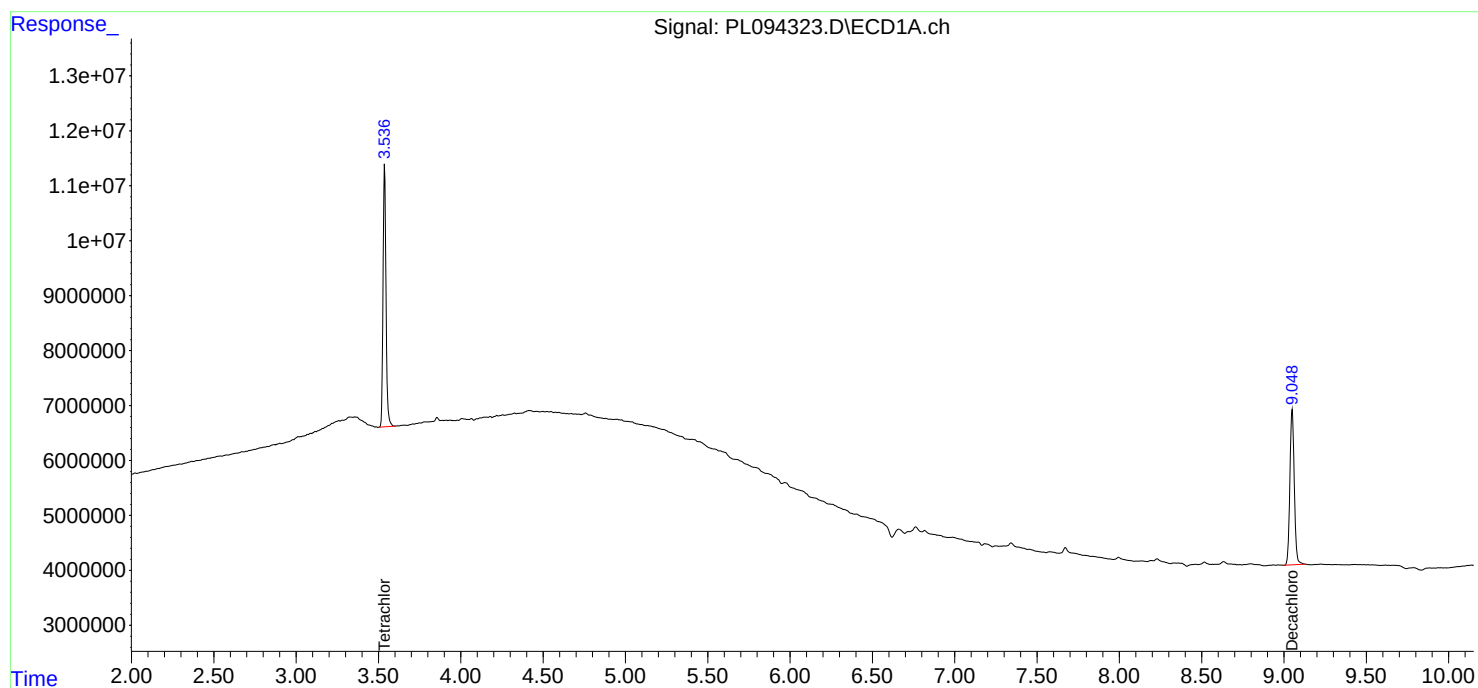
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

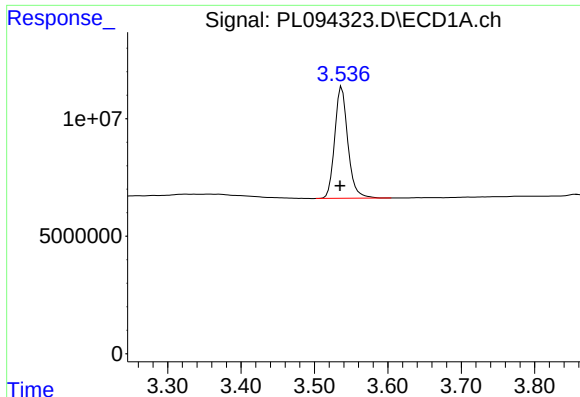
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022125\
Data File : PL094323.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2025 10:15
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 21 13:22:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 13:20:18 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 x0.25µm

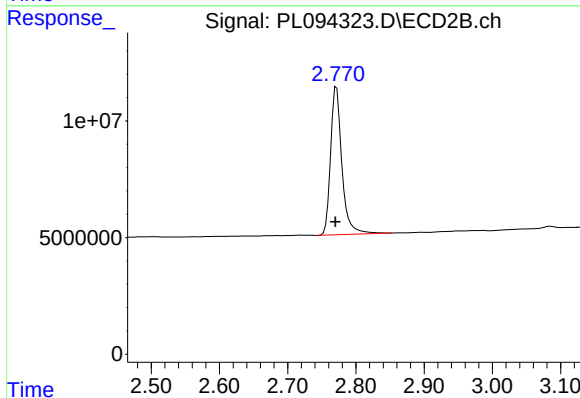




#1 Tetrachloro-m-xylene

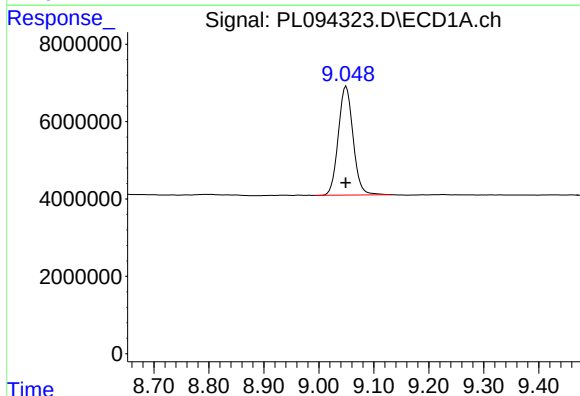
R.T.: 3.537 min
Delta R.T.: 0.002 min
Response: 59107304
Conc: 23.28 ng/ml

Instrument :
ECD_L
ClientSampleId :
I.BLK



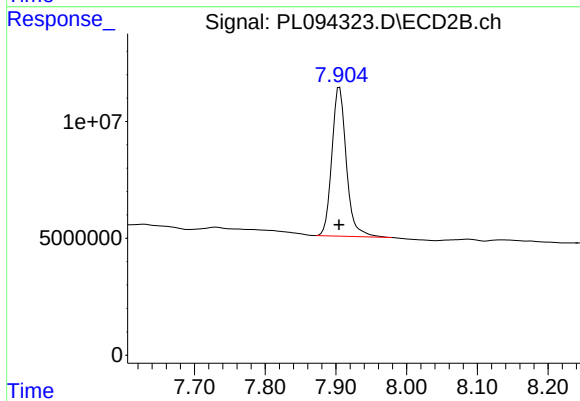
#1 Tetrachloro-m-xylene

R.T.: 2.772 min
Delta R.T.: 0.001 min
Response: 72879952
Conc: 22.84 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.050 min
Delta R.T.: 0.000 min
Response: 52511368
Conc: 24.68 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.905 min
Delta R.T.: 0.000 min
Response: 90629628
Conc: 23.57 ng/ml

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	02/27/25	
Project:	RFP 905		Date Received:	02/27/25	
Client Sample ID:	PIBLK-PL094432.D		SDG No.:	Q1421	
Lab Sample ID:	I.BLK-PL094432.D		Matrix:	WATER	
Analytical Method:	SW8081		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	SPLP Pesticide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094432.D	1		02/27/25	pl022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.8		43 - 140	99%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.9		77 - 126	105%	SPK: 20

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	02/27/25	
Project:	RFP 905		Date Received:	02/27/25	
Client Sample ID:	PIBLK-PL094432.D		SDG No.:	Q1421	
Lab Sample ID:	I.BLK-PL094432.D		Matrix:	WATER	
Analytical Method:	SW8081		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	SPLP Pesticide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094432.D	1		02/27/25	pl022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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_L\Data\PL022725\
Data File : PL094432.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2025 19:19
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 22:16:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 14:52:19 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 x0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.537	2.771	53108601	66295111	20.916	20.775
28) SA Decachlor...	9.054	7.907	42003520	72608368	19.745	18.881

Target Compounds

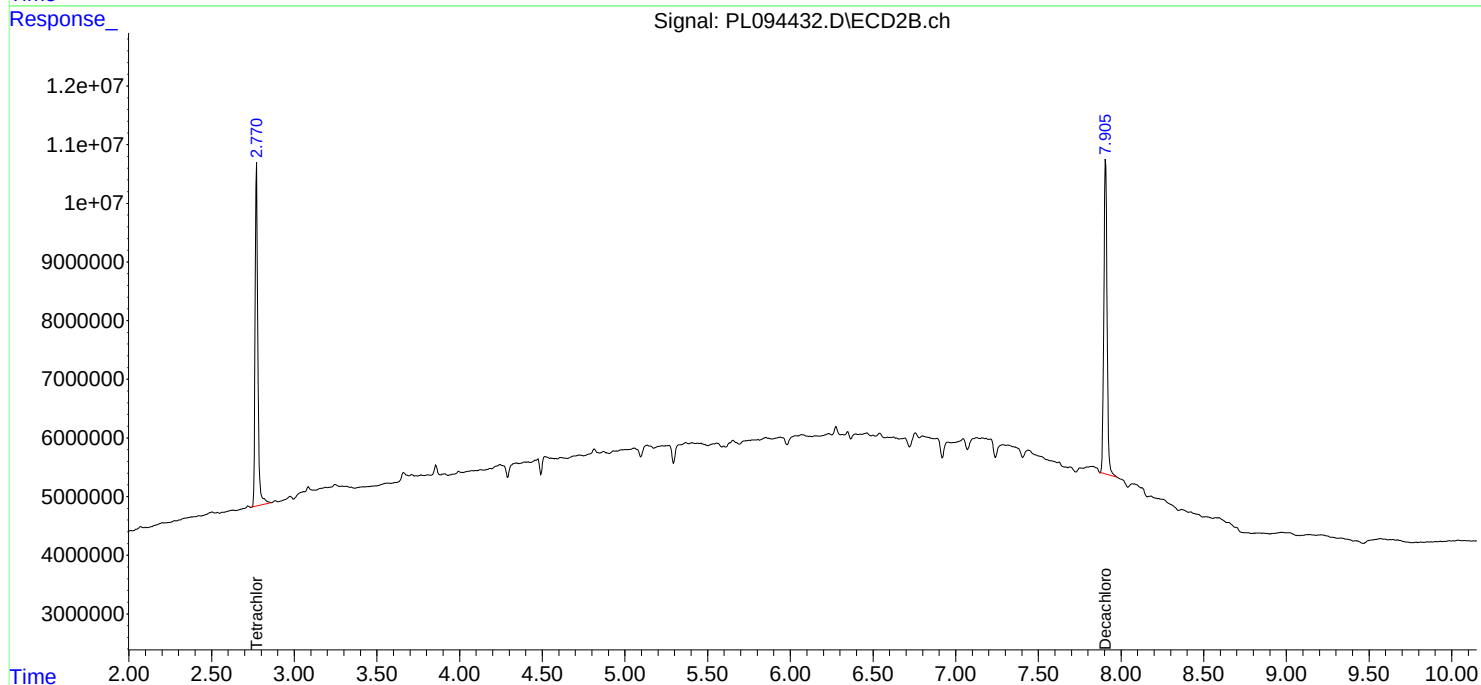
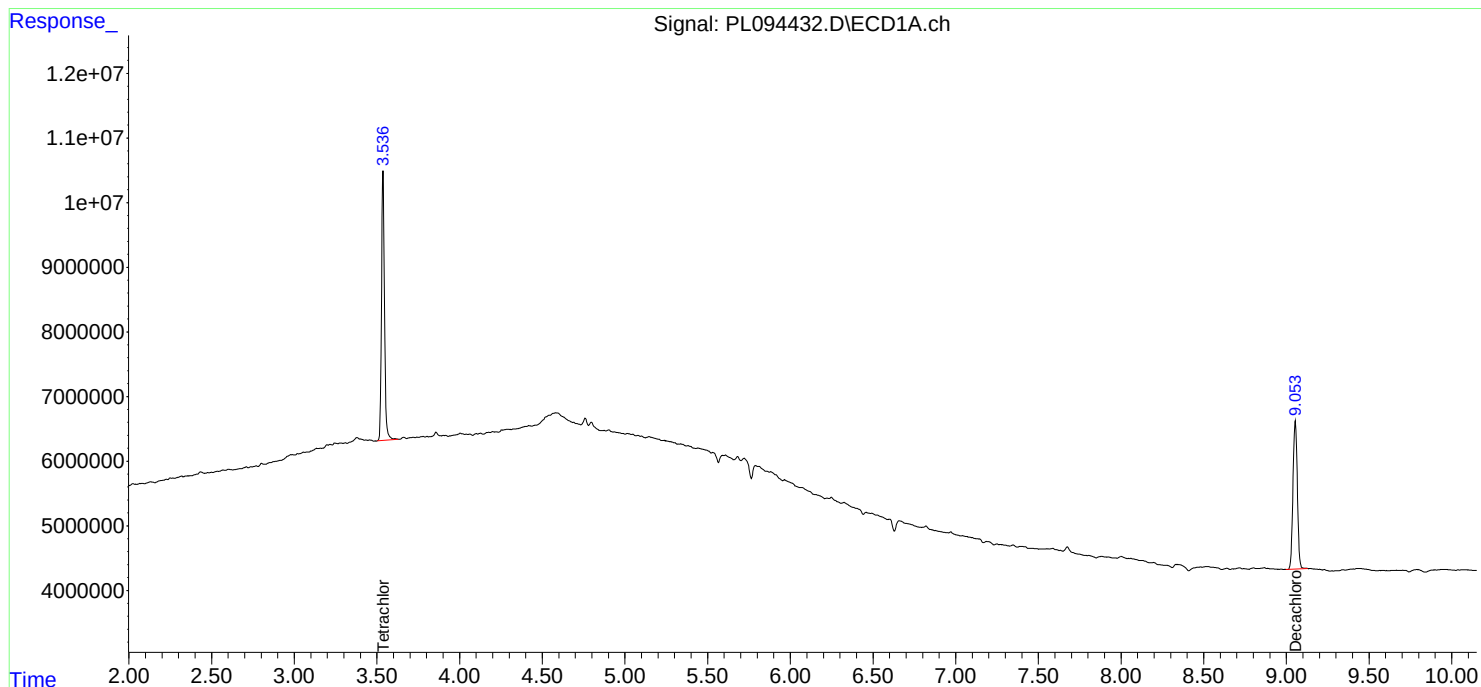
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

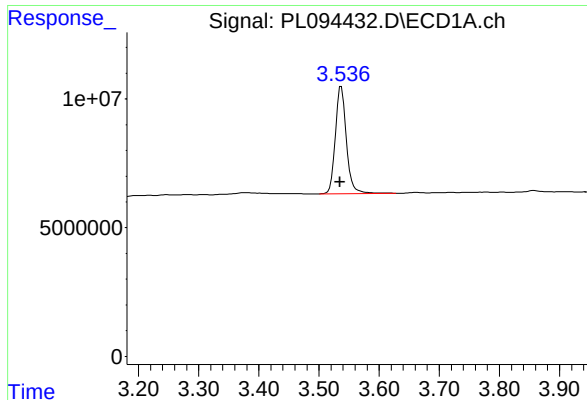
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022725\
Data File : PL094432.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2025 19:19
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 22:16:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 14:52:19 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 x0.25µm

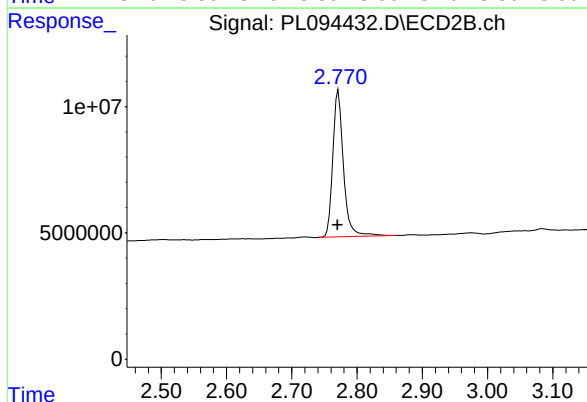




#1 Tetrachloro-m-xylene

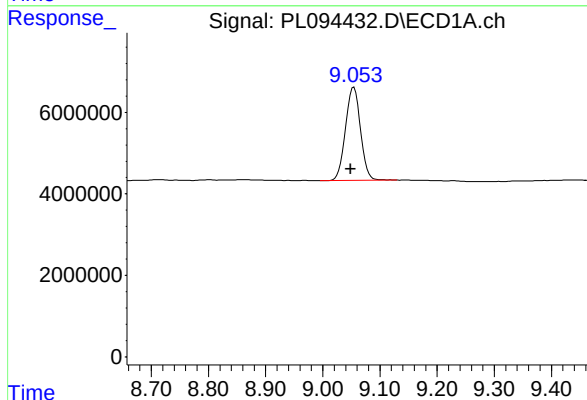
R.T.: 3.537 min
Delta R.T.: 0.002 min
Response: 53108601
Conc: 20.92 ng/ml

Instrument :
ECD_L
ClientSampleId :
I.BLK



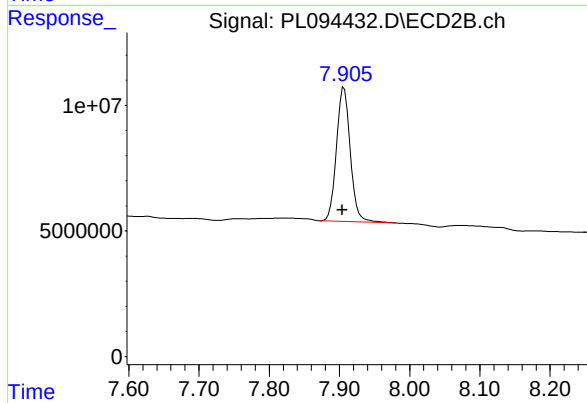
#1 Tetrachloro-m-xylene

R.T.: 2.771 min
Delta R.T.: 0.001 min
Response: 66295111
Conc: 20.77 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.054 min
Delta R.T.: 0.005 min
Response: 42003520
Conc: 19.75 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.907 min
Delta R.T.: 0.002 min
Response: 72608368
Conc: 18.88 ng/ml

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/27/25
Project:	RFP 905	Date Received:	02/27/25
Client Sample ID:	PIBLK-PL094443.D	SDG No.:	Q1421
Lab Sample ID:	I.BLK-PL094443.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	SPLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094443.D	1		02/27/25	pl022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.2		43 - 140	101%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.8		77 - 126	104%	SPK: 20

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	02/27/25	
Project:	RFP 905		Date Received:	02/27/25	
Client Sample ID:	PIBLK-PL094443.D		SDG No.:	Q1421	
Lab Sample ID:	I.BLK-PL094443.D		Matrix:	WATER	
Analytical Method:	SW8081		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	SPLP Pesticide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094443.D	1		02/27/25	pl022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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_L\Data\PL022725\
Data File : PL094443.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2025 22:16
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 02:52:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 14:52:19 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 x0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.537	2.772	52867181	65182746	20.821	20.426
28) SA Decachlor...	9.055	7.907	42952888	72170613	20.192	18.767

Target Compounds

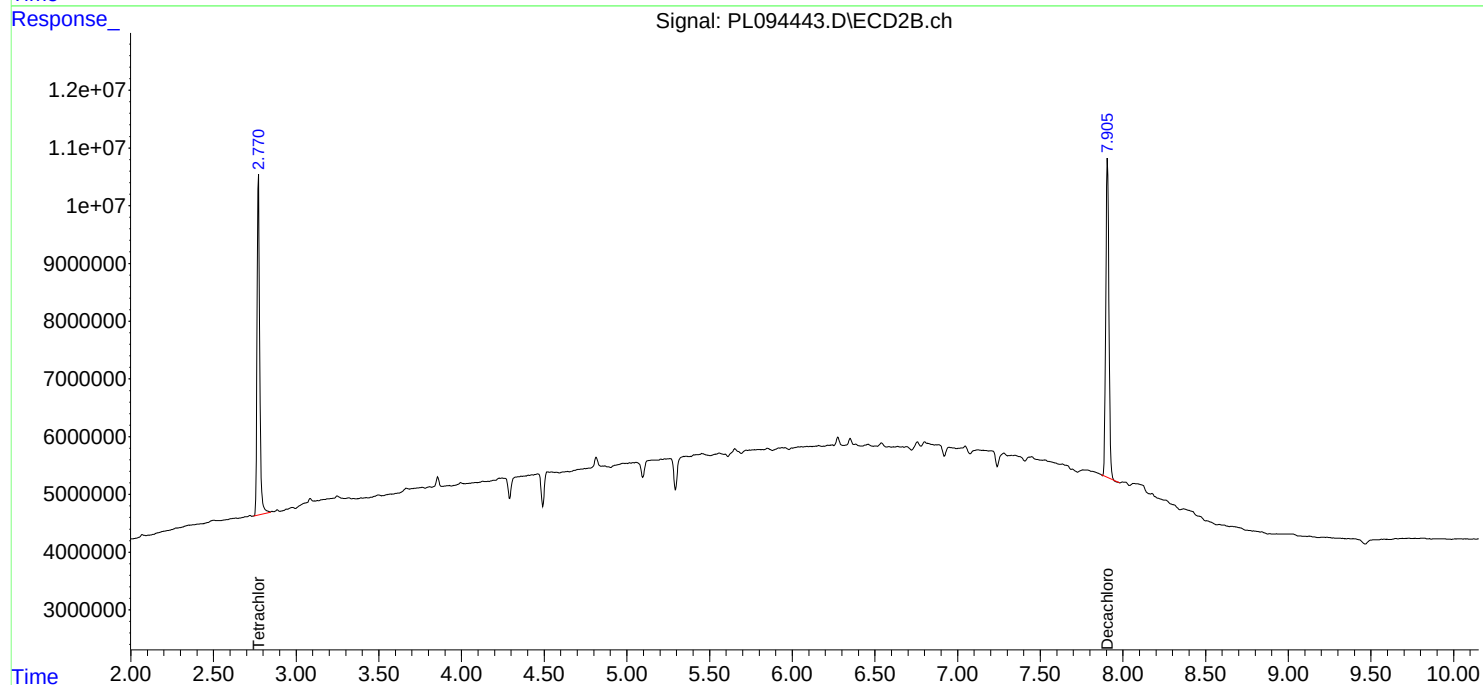
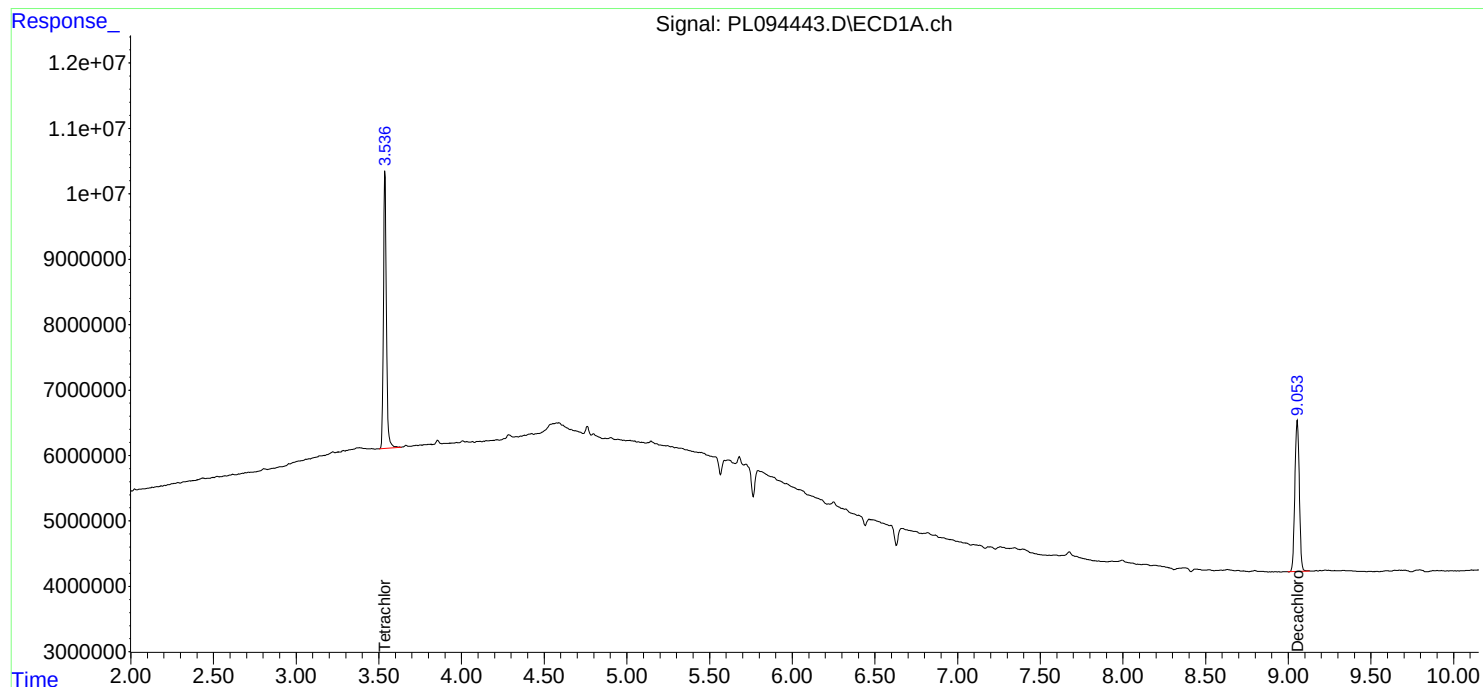
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

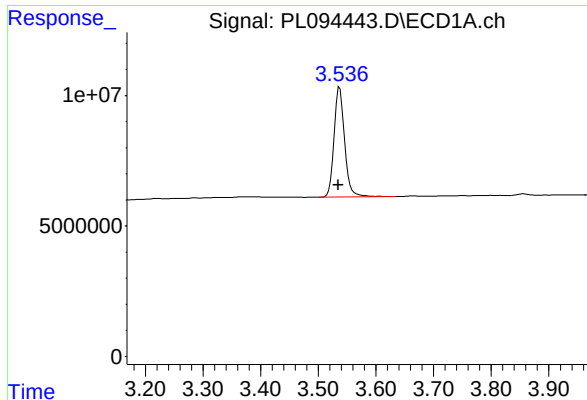
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022725\
Data File : PL094443.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2025 22:16
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 02:52:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 14:52:19 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 x0.25µm

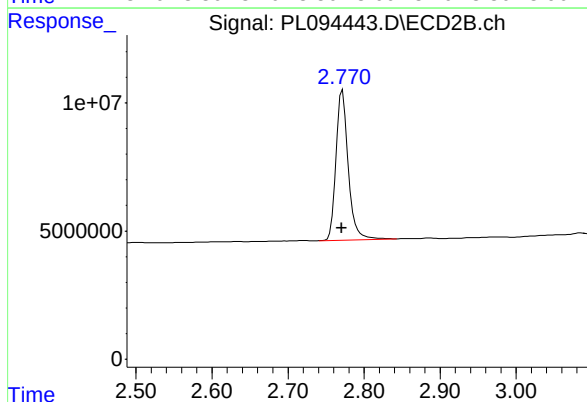




#1 Tetrachloro-m-xylene

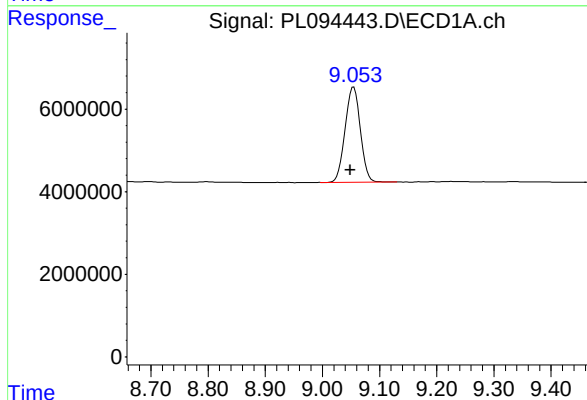
R.T.: 3.537 min
Delta R.T.: 0.002 min
Response: 52867181
Conc: 20.82 ng/ml

Instrument :
ECD_L
ClientSampleId :
I.BLK



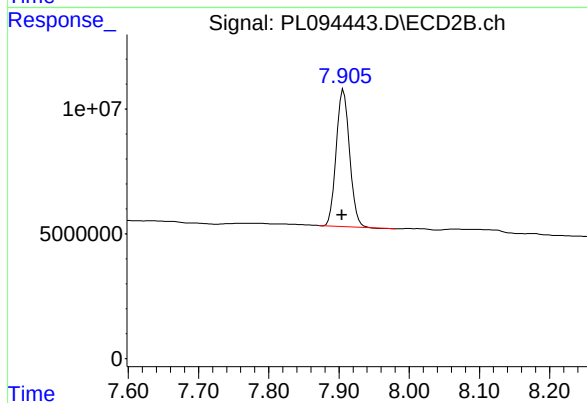
#1 Tetrachloro-m-xylene

R.T.: 2.772 min
Delta R.T.: 0.002 min
Response: 65182746
Conc: 20.43 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.055 min
Delta R.T.: 0.006 min
Response: 42952888
Conc: 20.19 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.907 min
Delta R.T.: 0.002 min
Response: 72170613
Conc: 18.77 ng/ml

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/28/25
Project:	RFP 905	Date Received:	02/28/25
Client Sample ID:	PIBLK-PL094459.D	SDG No.:	Q1421
Lab Sample ID:	I.BLK-PL094459.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	SPLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094459.D	1		02/28/25	PL022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	18.7		43 - 140	93%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.6		77 - 126	103%	SPK: 20

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/28/25
Project:	RFP 905	Date Received:	02/28/25
Client Sample ID:	PIBLK-PL094459.D	SDG No.:	Q1421
Lab Sample ID:	I.BLK-PL094459.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Decanted:	
GPC Factor :	1.0	Final Vol:	10000
Prep Method :	3510C	Test:	SPLP Pesticide
		PH :	
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094459.D	1		02/28/25	PL022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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_L\Data\PL022825\
 Data File : PL094459.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Feb 2025 14:19
 Operator : AR\AJ
 Sample : I.BLK
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 I.BLK

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Mar 03 00:51:06 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
 Quant Title : GC Extractables
 QLast Update : Fri Feb 21 14:52:19 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 x0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.538	2.772	50948753	65802443	20.066	20.620
28) SA Decachlor...	9.055	7.908	39748643	60602887	18.685	15.759

Target Compounds

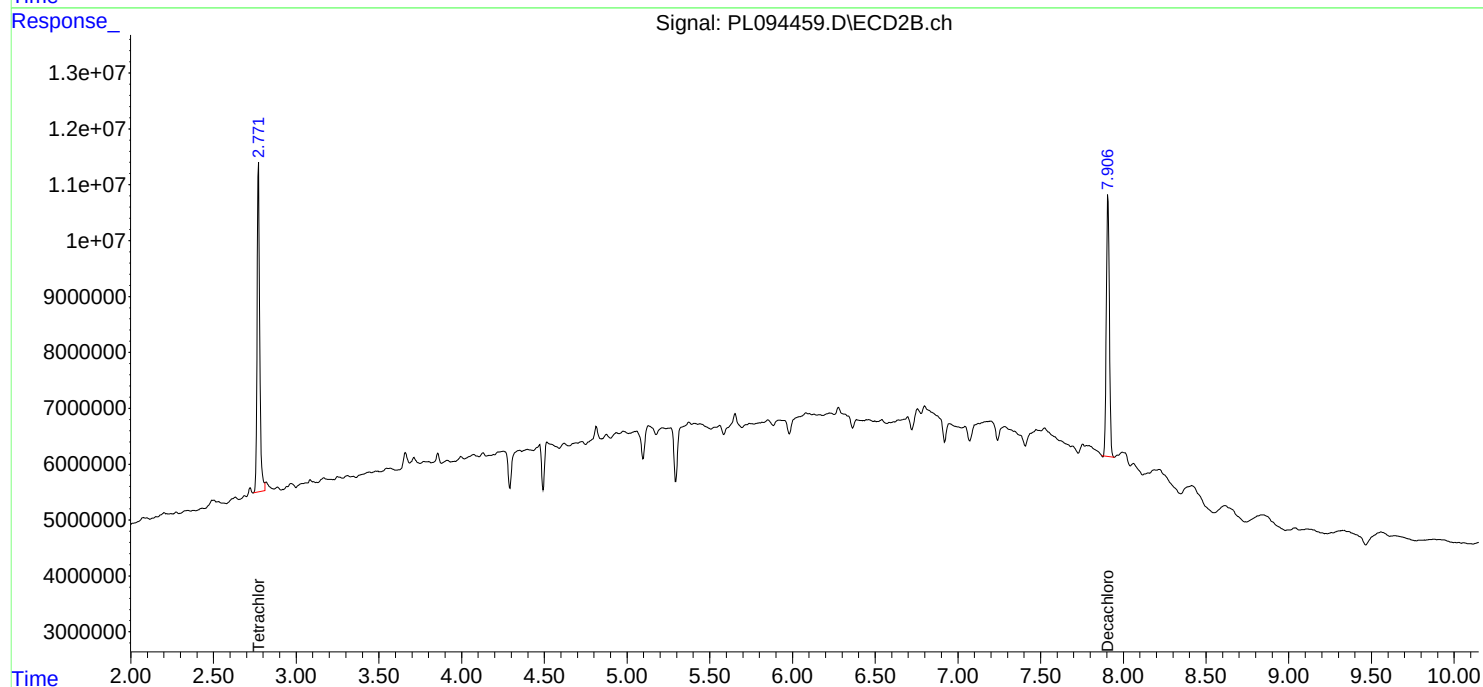
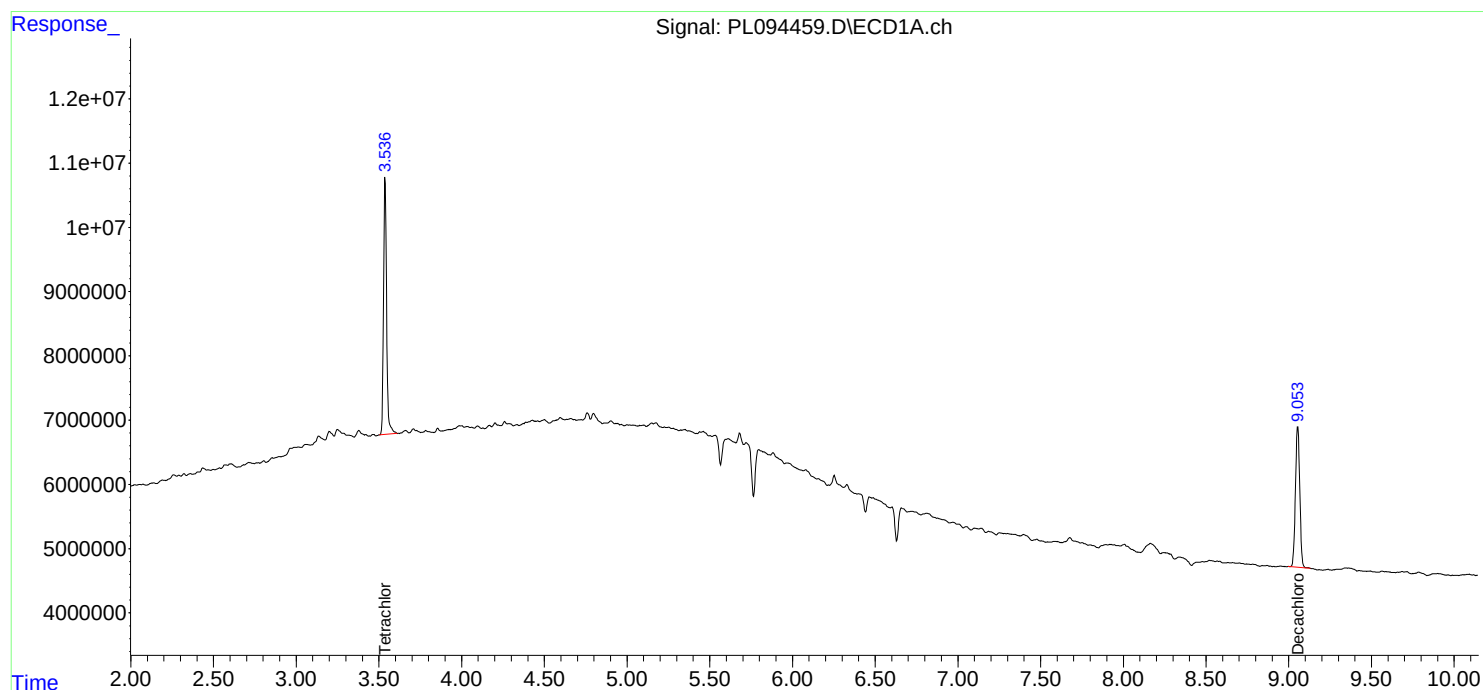
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

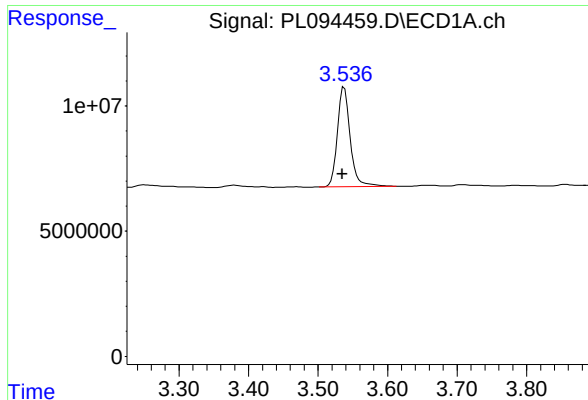
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022825\
Data File : PL094459.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2025 14:19
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 03 00:51:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 14:52:19 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 x0.25µm

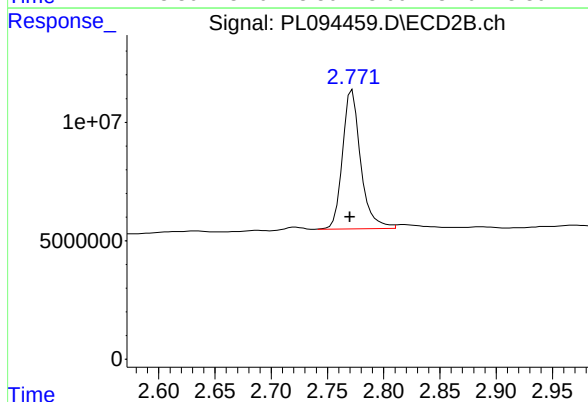




#1 Tetrachloro-m-xylene

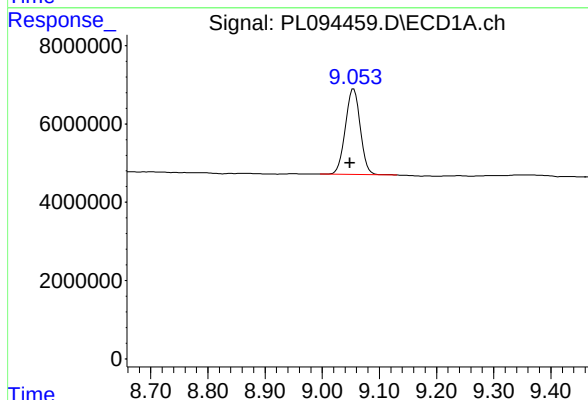
R.T.: 3.538 min
Delta R.T.: 0.003 min
Response: 50948753
Conc: 20.07 ng/ml

Instrument :
ECD_L
ClientSampleId :
I.BLK



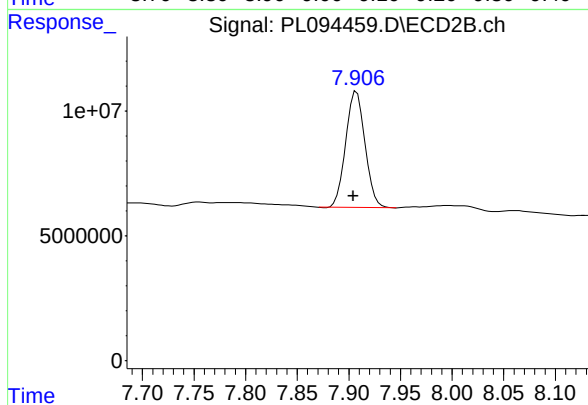
#1 Tetrachloro-m-xylene

R.T.: 2.772 min
Delta R.T.: 0.002 min
Response: 65802443
Conc: 20.62 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.055 min
Delta R.T.: 0.006 min
Response: 39748643
Conc: 18.69 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.908 min
Delta R.T.: 0.003 min
Response: 60602887
Conc: 15.76 ng/ml

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/28/25
Project:	RFP 905	Date Received:	02/28/25
Client Sample ID:	PIBLK-PL094462.D	SDG No.:	Q1421
Lab Sample ID:	I.BLK-PL094462.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	SPLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094462.D	1		02/28/25	PL022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.7		43 - 140	98%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.9		77 - 126	105%	SPK: 20

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	02/28/25	
Project:	RFP 905		Date Received:	02/28/25	
Client Sample ID:	PIBLK-PL094462.D		SDG No.:	Q1421	
Lab Sample ID:	I.BLK-PL094462.D		Matrix:	WATER	
Analytical Method:	SW8081		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	SPLP Pesticide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094462.D	1		02/28/25	PL022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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_L\Data\PL022825\
Data File : PL094462.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2025 15:01
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 03 00:52:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 14:52:19 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 x0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.538	2.772	52939142	66826561	20.850	20.941
28) SA Decachlor...	9.055	7.908	41877941	70199693	19.686	18.254

Target Compounds

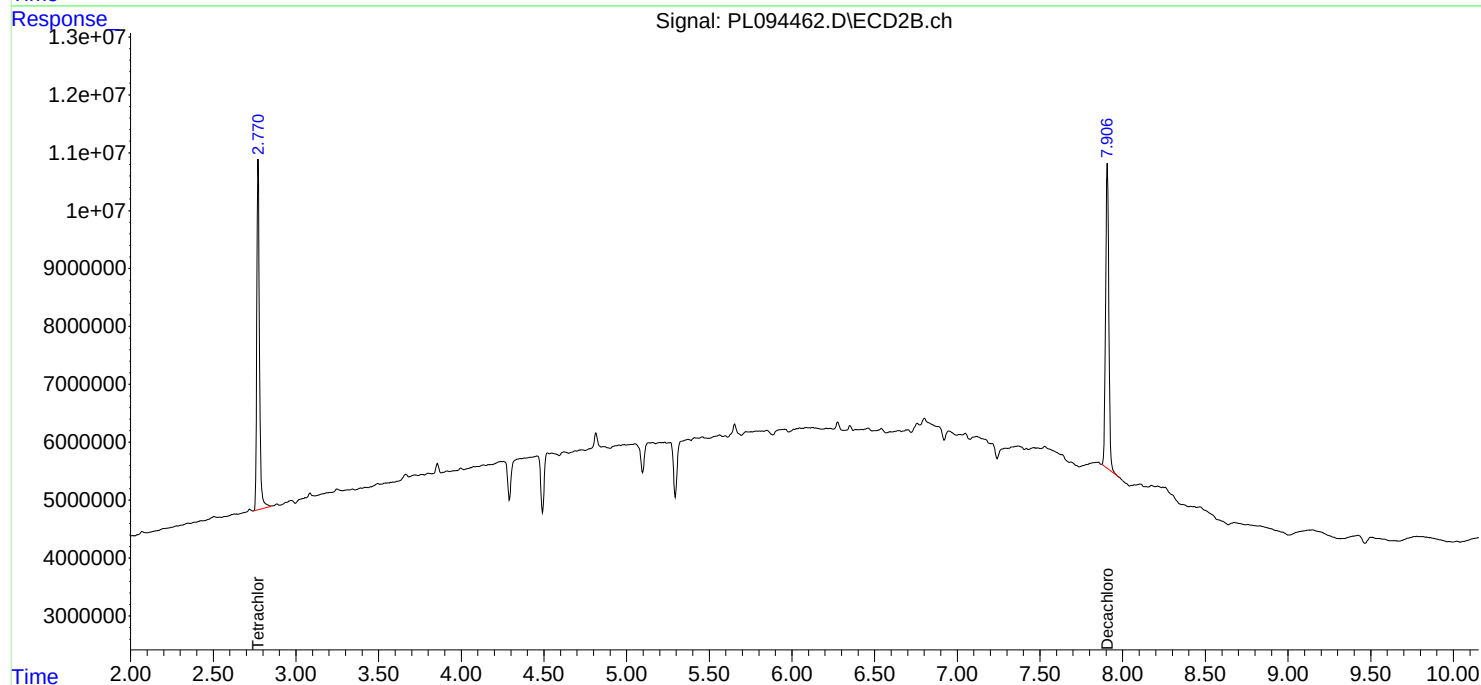
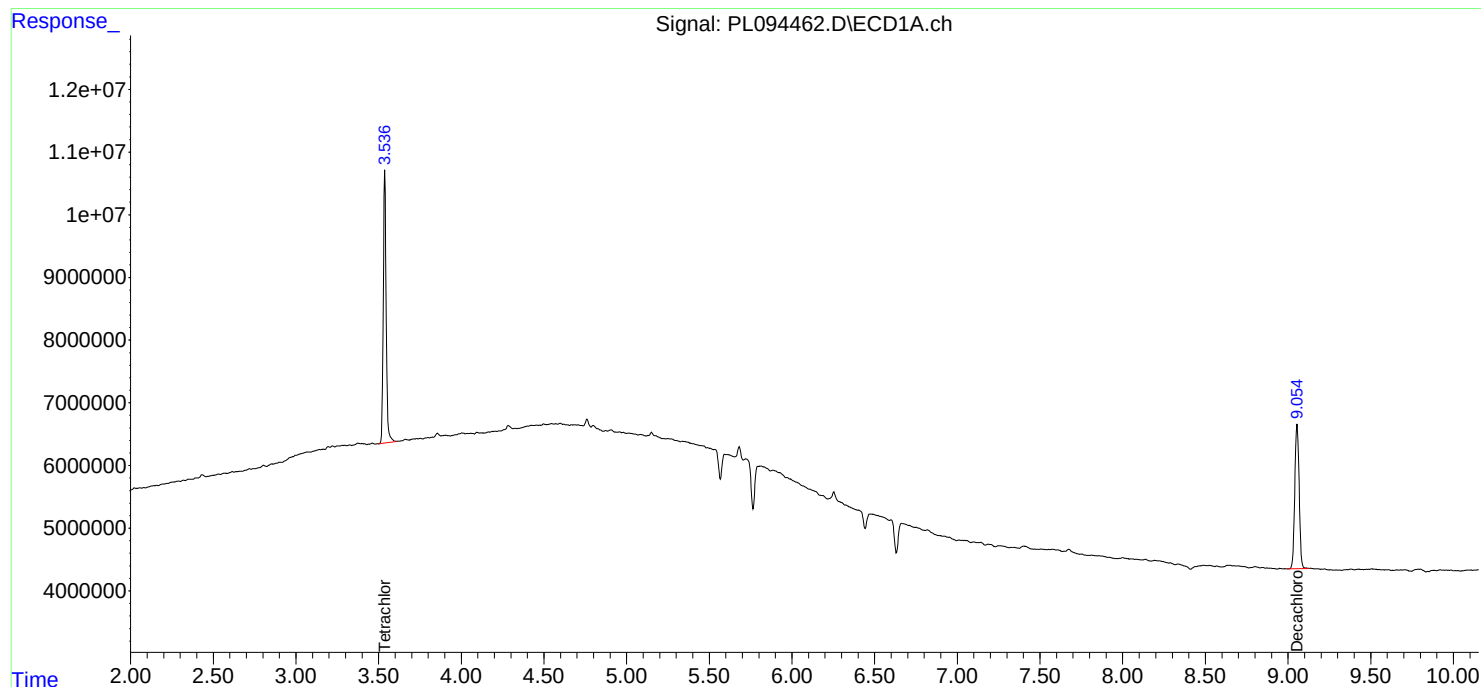
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

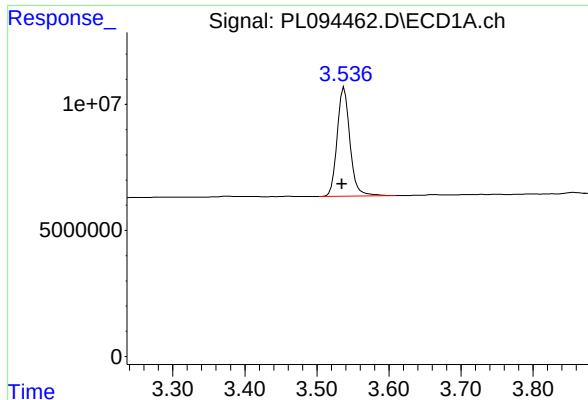
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022825\
Data File : PL094462.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Feb 2025 15:01
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 03 00:52:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 14:52:19 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 x0.25µm

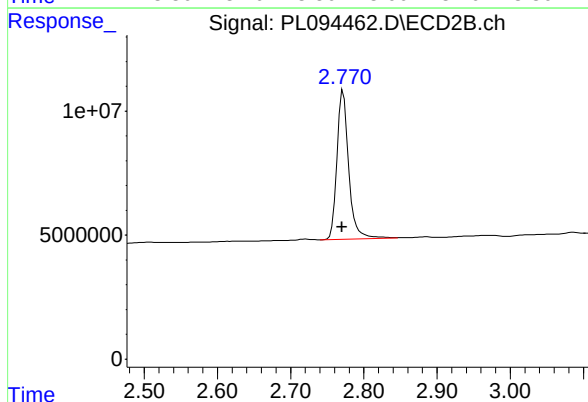




#1 Tetrachloro-m-xylene

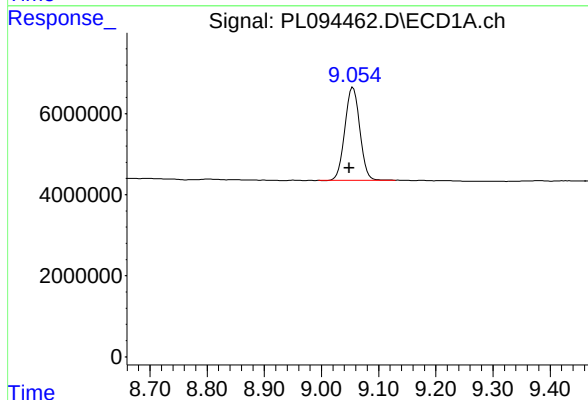
R.T.: 3.538 min
Delta R.T.: 0.003 min
Response: 52939142
Conc: 20.85 ng/ml

Instrument :
ECD_L
ClientSampleId :
I.BLK



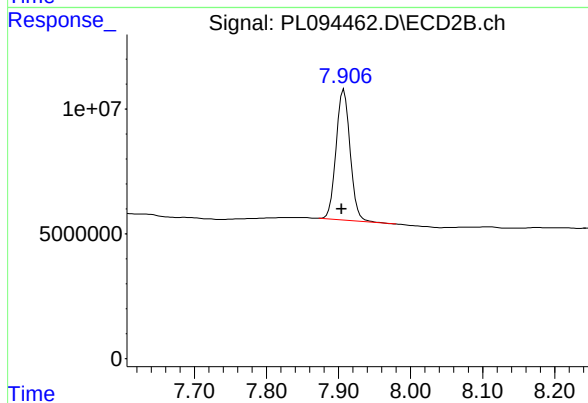
#1 Tetrachloro-m-xylene

R.T.: 2.772 min
Delta R.T.: 0.002 min
Response: 66826561
Conc: 20.94 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.055 min
Delta R.T.: 0.006 min
Response: 41877941
Conc: 19.69 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.908 min
Delta R.T.: 0.003 min
Response: 70199693
Conc: 18.25 ng/ml

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 905	Date Received:	
Client Sample ID:	PB166896BS	SDG No.:	Q1421
Lab Sample ID:	PB166896BS	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	SPLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094436.D	1	02/27/25 09:10	02/27/25 20:41	PB166896

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.48		0.0061	0.050	ug/L
319-85-7	beta-BHC	0.50		0.014	0.050	ug/L
319-86-8	delta-BHC	0.48		0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.48		0.0049	0.050	ug/L
76-44-8	Heptachlor	0.50		0.0054	0.050	ug/L
309-00-2	Aldrin	0.48		0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.50		0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.51		0.0050	0.050	ug/L
60-57-1	Dieldrin	0.51		0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.52		0.0045	0.050	ug/L
72-20-8	Endrin	0.57		0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.53		0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.56		0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.51		0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.52		0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.51		0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.53		0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.49		0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.50		0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.51		0.0060	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.2		43 - 140	101%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.9		77 - 126	99%	SPK: 20

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:		
Project:	RFP 905		Date Received:		
Client Sample ID:	PB166896BS		SDG No.:	Q1421	
Lab Sample ID:	PB166896BS		Matrix:	WATER	
Analytical Method:	SW8081		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	SPLP Pesticide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094436.D	1	02/27/25 09:10	02/27/25 20:41	PB166896

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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_L\Data\PL022725\
 Data File : PL094436.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Feb 2025 20:41
 Operator : AR\AJ
 Sample : PB166896BS
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

PB166896BS

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 03/02/2025

Supervised By :Ankita Jodhani 03/04/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 27 22:19:03 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
 Quant Title : GC Extractables
 QLast Update : Fri Feb 21 14:52:19 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 x0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.537	2.771	50440436	61664688	19.865	19.324
28) SA Decachlor...	9.052	7.906	42914390	75713041	20.174	19.688
Target Compounds						
2) A alpha-BHC	3.993	3.274	178.4E6	236.9E6	47.163	48.197
3) MA gamma-BHC...	4.325	3.603	171.2E6	225.3E6	46.332	47.835
4) MA Heptachlor	4.913	3.941	168.1E6	234.5E6	49.571	49.675
5) MB Aldrin	5.255	4.221	161.4E6	220.2E6	47.035	47.666
6) B beta-BHC	4.524	3.904	77215125	99182546	48.353	49.867
7) B delta-BHC	4.770	4.132	168.7E6	223.1E6	47.674m	47.106
8) B Heptachlo...	5.682	4.723	146.5E6	211.2E6	48.619	49.621
9) A Endosulfan I	6.068	5.093	134.2E6	202.5E6	48.832	50.794
10) B gamma-Chl...	5.938	4.973	144.0E6	220.1E6	49.031	50.727
11) B alpha-Chl...	6.017	5.037	142.9E6	217.0E6	49.329	50.255
12) B 4,4'-DDE	6.191	5.226	135.4E6	217.1E6	51.836	51.692
13) MA Dieldrin	6.342	5.357	140.3E6	222.4E6	49.261	50.746
14) MA Endrin	6.571	5.632	113.7E6	193.2E6	44.548m	56.738m#
15) B Endosulfa...	6.793	5.928	119.2E6	199.2E6	47.352	53.276
16) A 4,4'-DDD	6.707	5.781	103.3E6	179.0E6	55.840m	56.189
17) MA 4,4'-DDT	7.022	6.031	107.9E6	186.5E6	51.387	52.443
18) B Endrin al...	6.923	6.107	93851699	156.1E6	48.208	49.398
19) B Endosulfa...	7.158	6.330	108.9E6	188.2E6	48.118	50.944
20) A Methoxychlor	7.499	6.606	55252524	99677369	49.730	51.090
21) B Endrin ke...	7.643	6.835	121.9E6	227.9E6	48.629	53.406
22) Mirex	8.115	7.016	90054734	165.1E6	43.646	47.339

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022725\
Data File : PL094436.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2025 20:41
Operator : AR\AJ
Sample : PB166896BS
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

PB166896BS

Manual Integrations

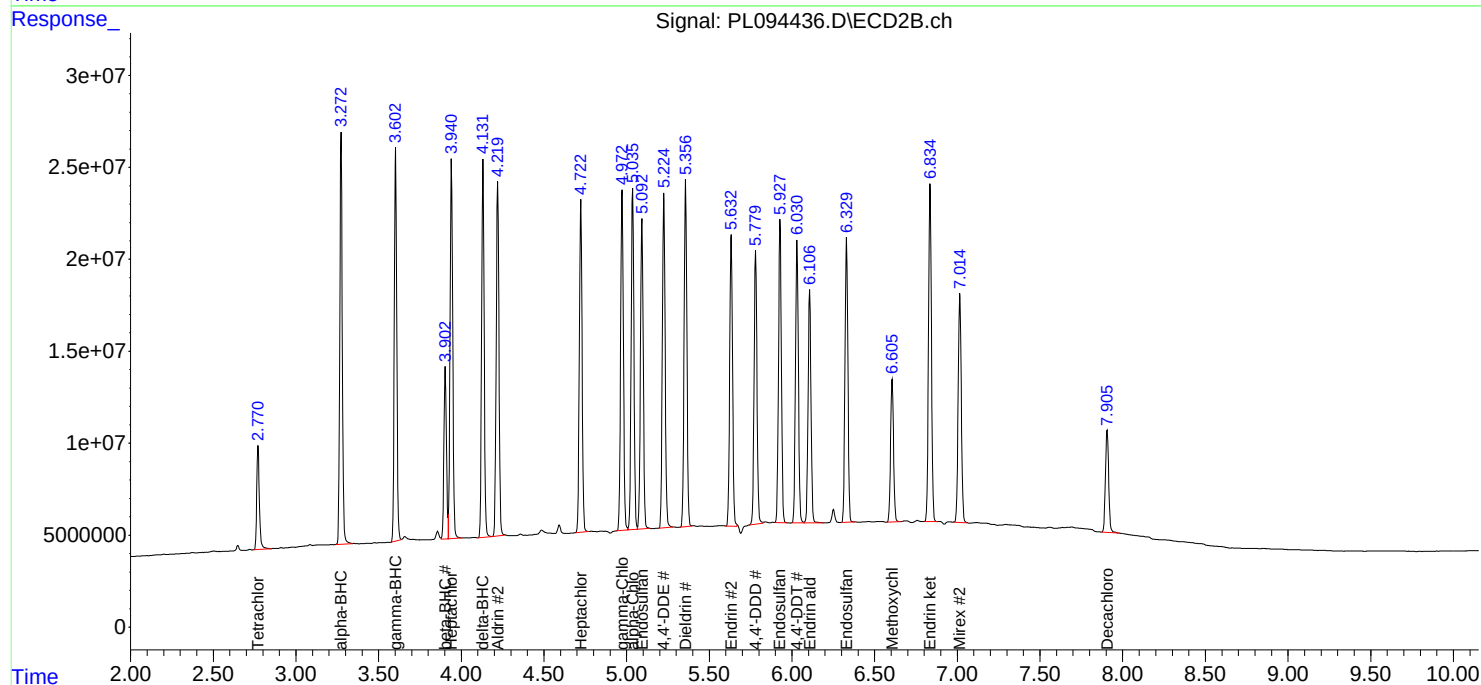
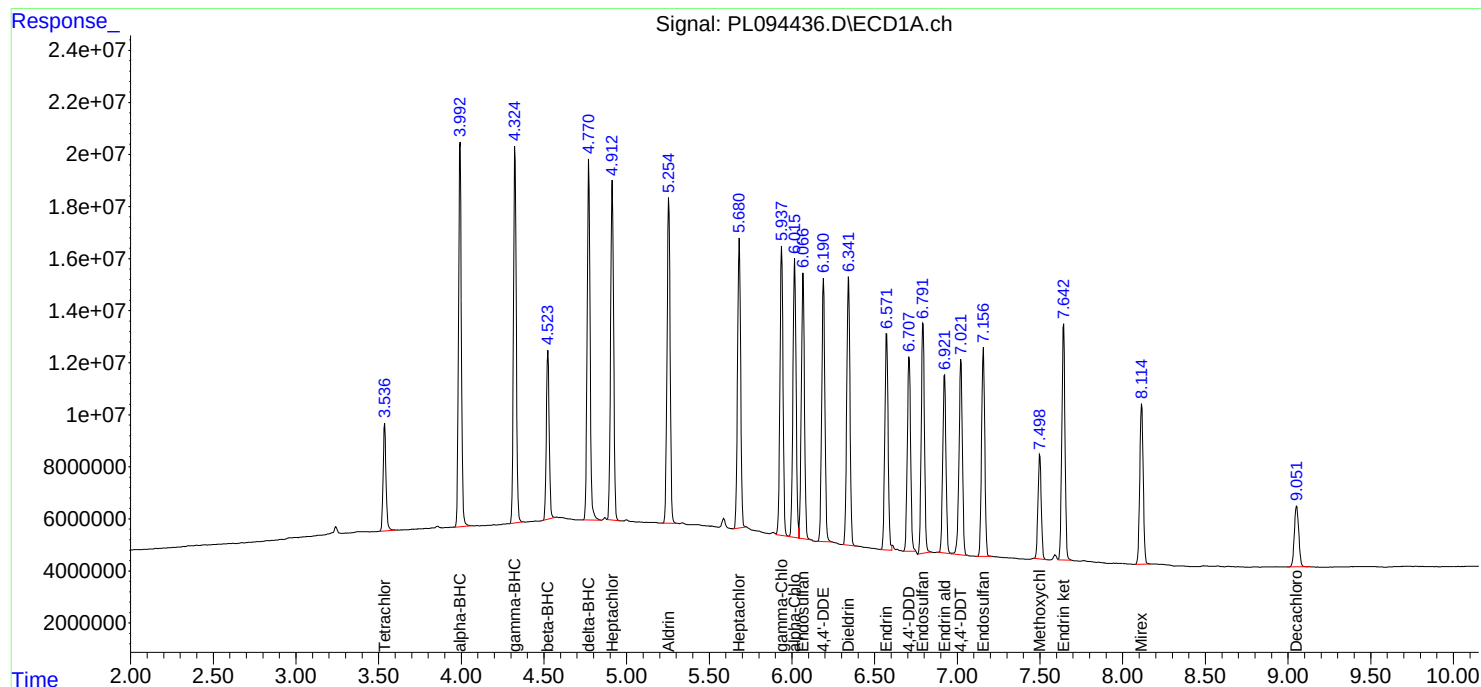
APPROVED

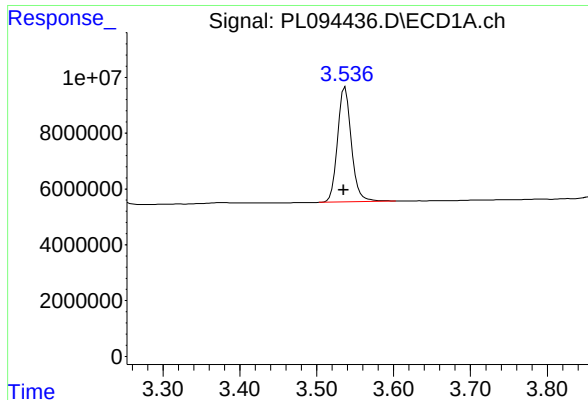
Reviewed By :Abdul Mirza 03/02/2025

Supervised By :Ankita Jodhani 03/04/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 22:19:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 14:52:19 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 x0.25µm





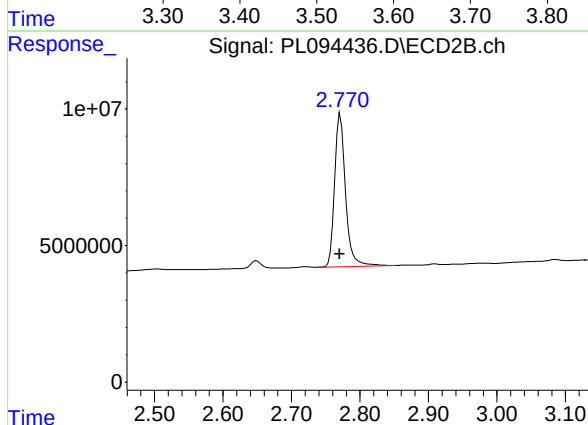
#1 Tetrachloro-m-xylene

R.T.: 3.537 min
Delta R.T.: 0.002 min
Response: 50440436
Conc: 19.87 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB166896BS

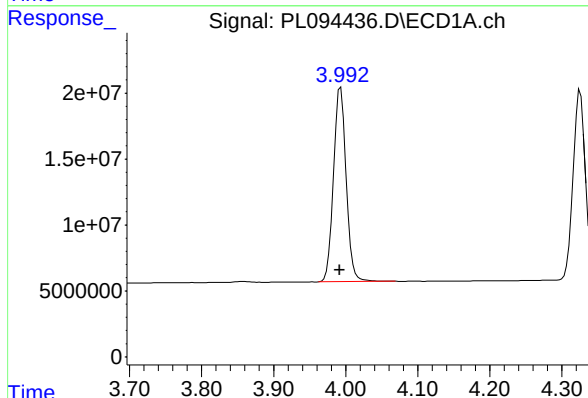
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



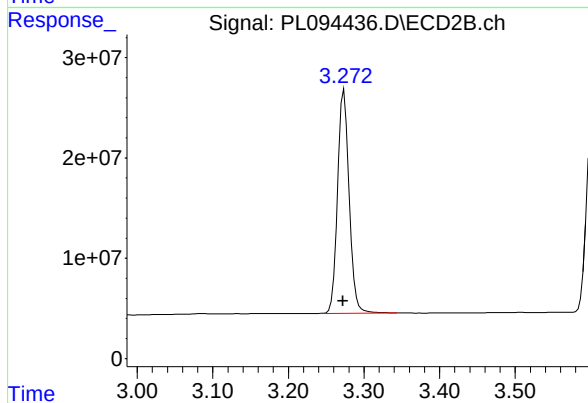
#1 Tetrachloro-m-xylene

R.T.: 2.771 min
Delta R.T.: 0.001 min
Response: 61664688
Conc: 19.32 ng/ml



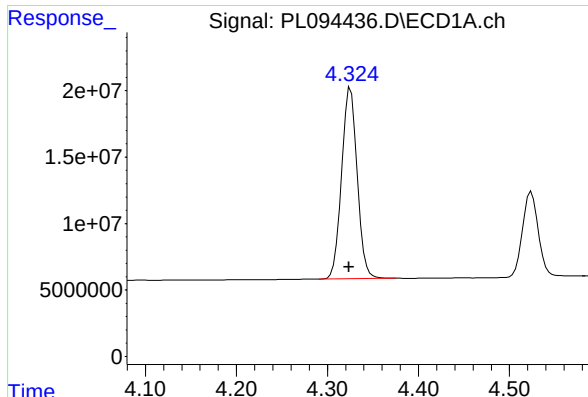
#2 alpha-BHC

R.T.: 3.993 min
Delta R.T.: 0.002 min
Response: 178401676
Conc: 47.16 ng/ml



#2 alpha-BHC

R.T.: 3.274 min
Delta R.T.: 0.001 min
Response: 236879976
Conc: 48.20 ng/ml



#3 gamma-BHC (Lindane)

R.T.: 4.325 min
Delta R.T.: 0.002 min
Response: 171182796
Conc: 46.33 ng/ml

Instrument :

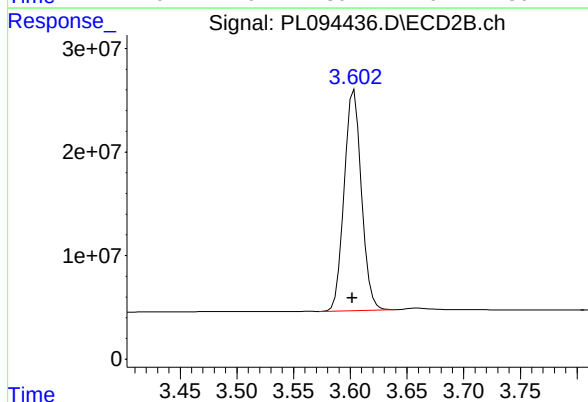
ECD_L

ClientSampleId :

PB166896BS

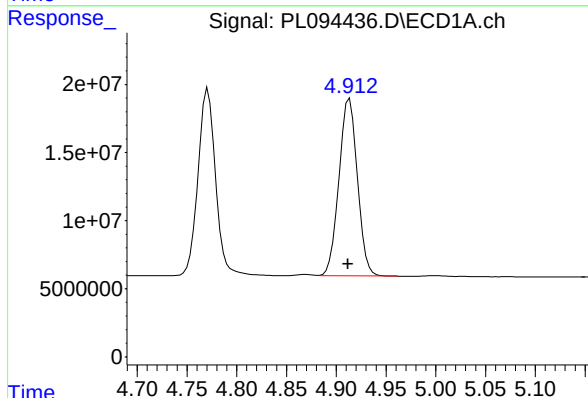
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



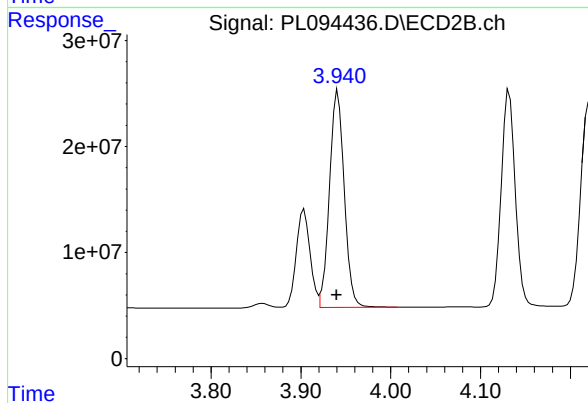
#3 gamma-BHC (Lindane)

R.T.: 3.603 min
Delta R.T.: 0.001 min
Response: 225301792
Conc: 47.84 ng/ml



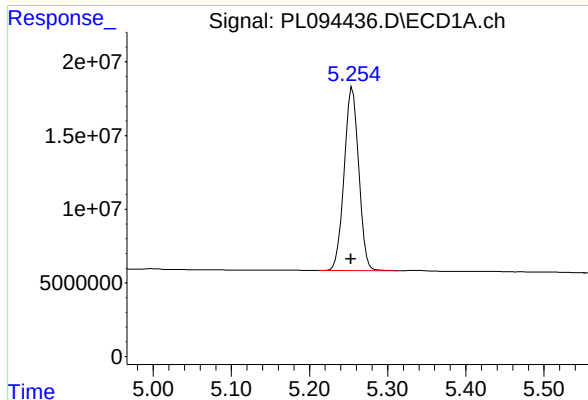
#4 Heptachlor

R.T.: 4.913 min
Delta R.T.: 0.002 min
Response: 168063465
Conc: 49.57 ng/ml



#4 Heptachlor

R.T.: 3.941 min
Delta R.T.: 0.001 min
Response: 234478980
Conc: 49.67 ng/ml



#5 Aldrin

R.T.: 5.255 min
Delta R.T.: 0.002 min
Response: 161411296
Conc: 47.03 ng/ml

Instrument :

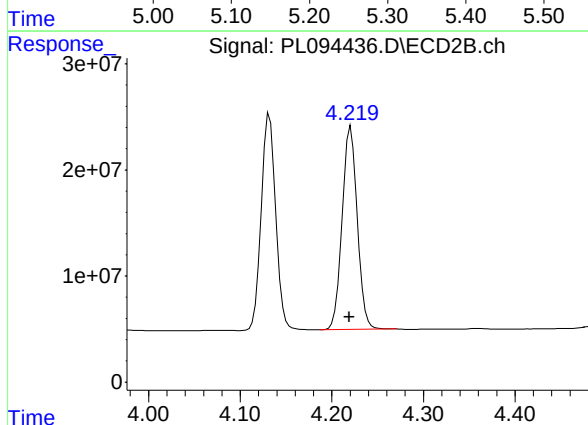
ECD_L

ClientSampleId :

PB166896BS

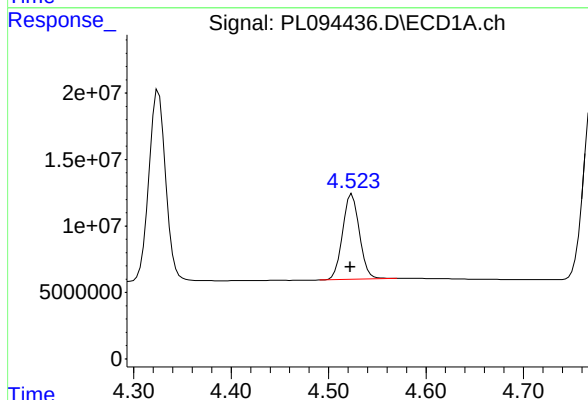
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



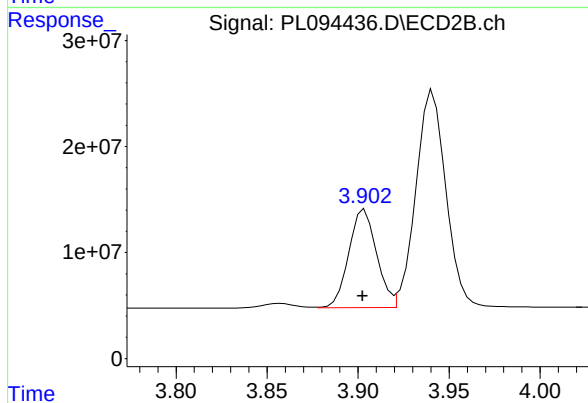
#5 Aldrin

R.T.: 4.221 min
Delta R.T.: 0.002 min
Response: 220236381
Conc: 47.67 ng/ml



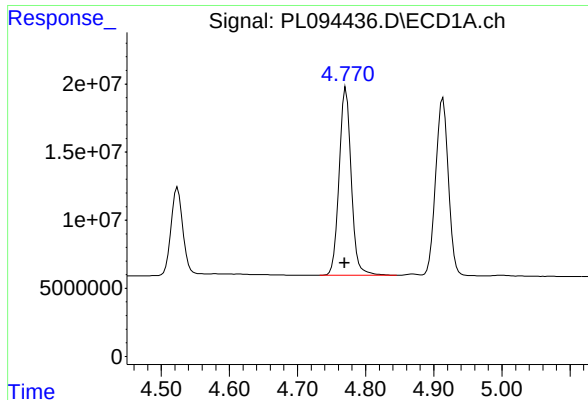
#6 beta-BHC

R.T.: 4.524 min
Delta R.T.: 0.002 min
Response: 77215125
Conc: 48.35 ng/ml



#6 beta-BHC

R.T.: 3.904 min
Delta R.T.: 0.001 min
Response: 99182546
Conc: 49.87 ng/ml



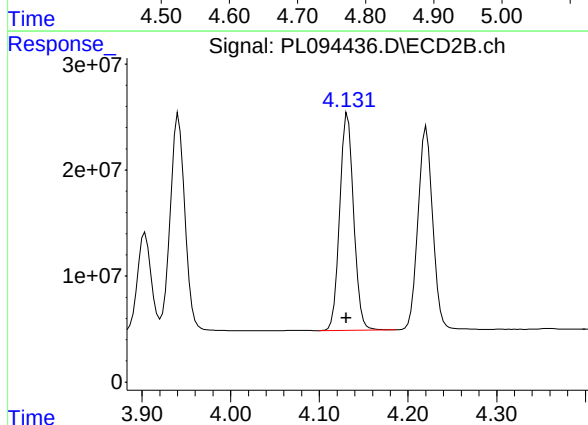
#7 delta-BHC

R.T.: 4.770 min
Delta R.T.: 0.000 min
Response: 168684069
Conc: 47.67 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB166896BS

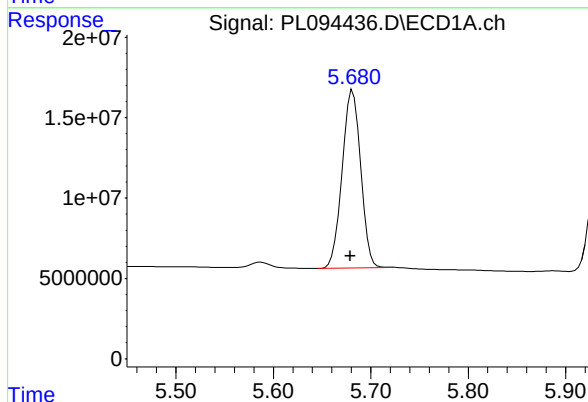
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



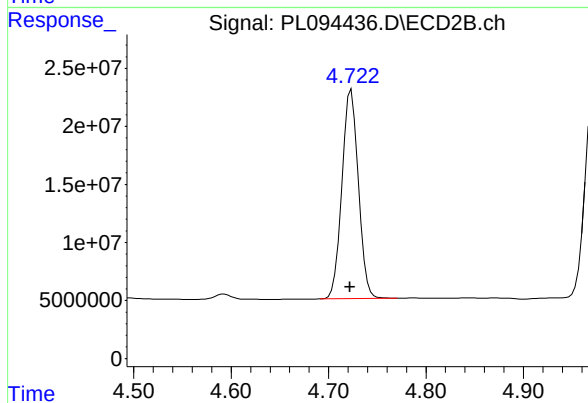
#7 delta-BHC

R.T.: 4.132 min
Delta R.T.: 0.002 min
Response: 223079897
Conc: 47.11 ng/ml



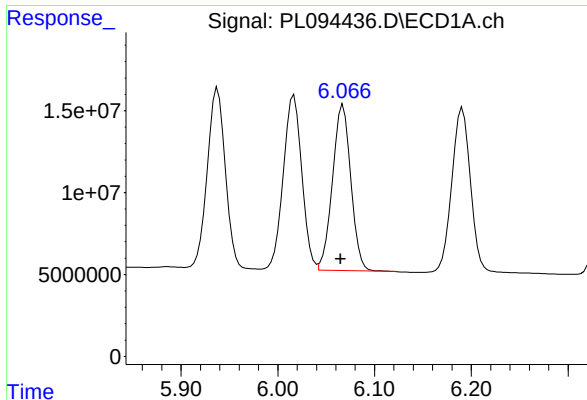
#8 Heptachlor epoxide

R.T.: 5.682 min
Delta R.T.: 0.002 min
Response: 146507561
Conc: 48.62 ng/ml



#8 Heptachlor epoxide

R.T.: 4.723 min
Delta R.T.: 0.001 min
Response: 211157020
Conc: 49.62 ng/ml



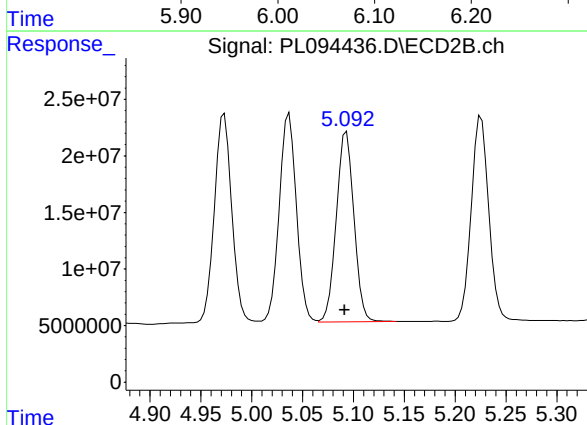
#9 Endosulfan I

R.T.: 6.068 min
Delta R.T.: 0.002 min
Response: 134219797
Conc: 48.83 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB166896BS

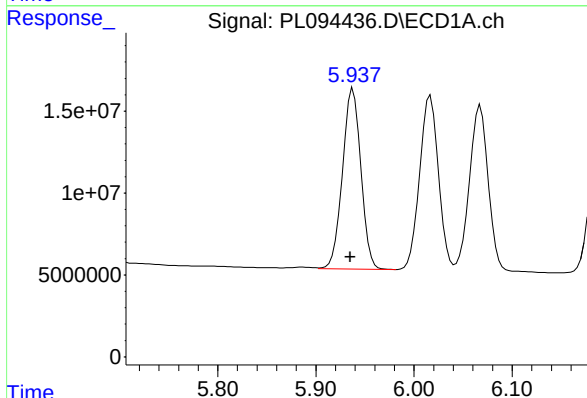
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



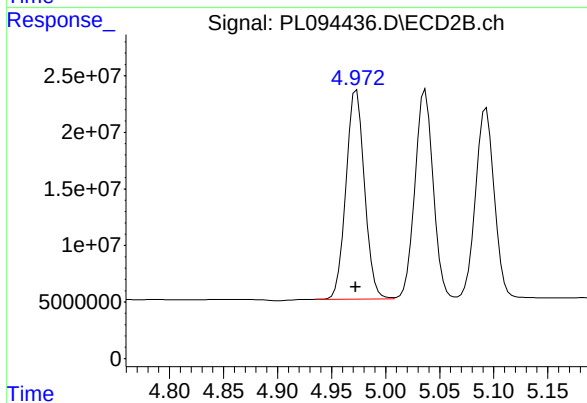
#9 Endosulfan I

R.T.: 5.093 min
Delta R.T.: 0.002 min
Response: 202494345
Conc: 50.79 ng/ml



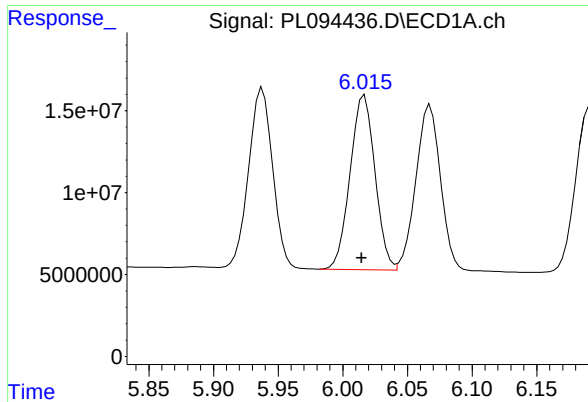
#10 gamma-Chlordane

R.T.: 5.938 min
Delta R.T.: 0.003 min
Response: 143963145
Conc: 49.03 ng/ml



#10 gamma-Chlordane

R.T.: 4.973 min
Delta R.T.: 0.001 min
Response: 220096856
Conc: 50.73 ng/ml



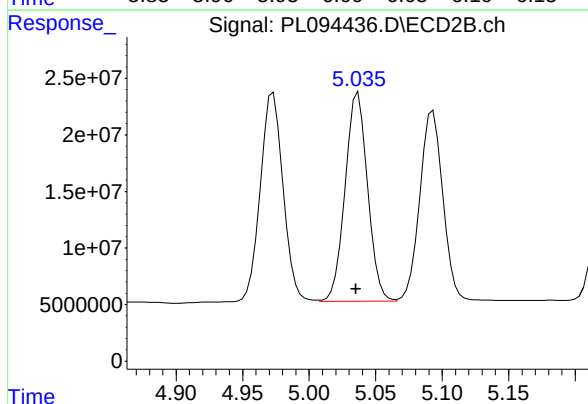
#11 alpha-Chlordane

R.T.: 6.017 min
Delta R.T.: 0.002 min
Response: 142911679
Conc: 49.33 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB166896BS

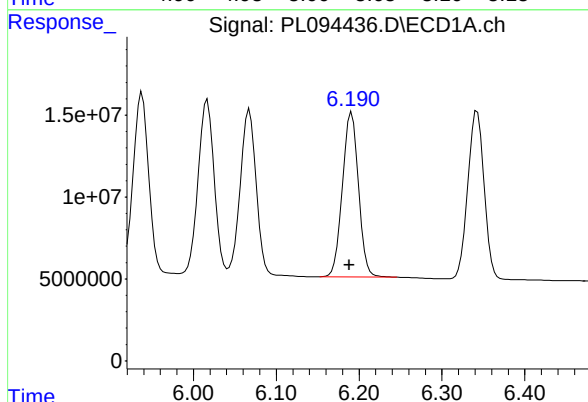
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



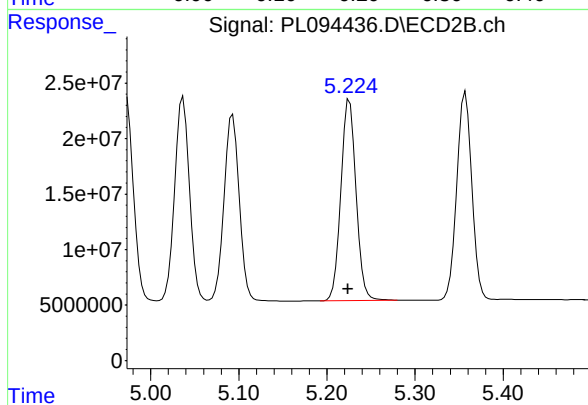
#11 alpha-Chlordane

R.T.: 5.037 min
Delta R.T.: 0.002 min
Response: 216980023
Conc: 50.25 ng/ml



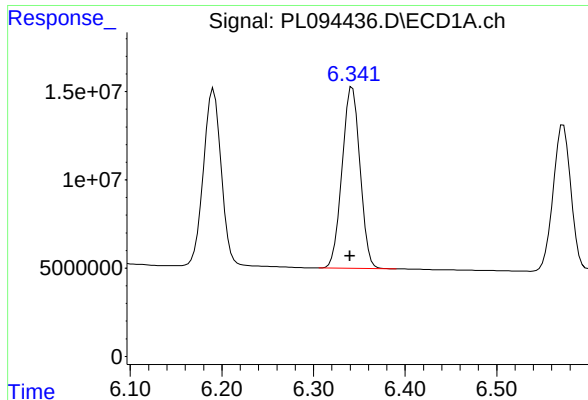
#12 4,4'-DDE

R.T.: 6.191 min
Delta R.T.: 0.003 min
Response: 135381576
Conc: 51.84 ng/ml



#12 4,4'-DDE

R.T.: 5.226 min
Delta R.T.: 0.002 min
Response: 217108181
Conc: 51.69 ng/ml



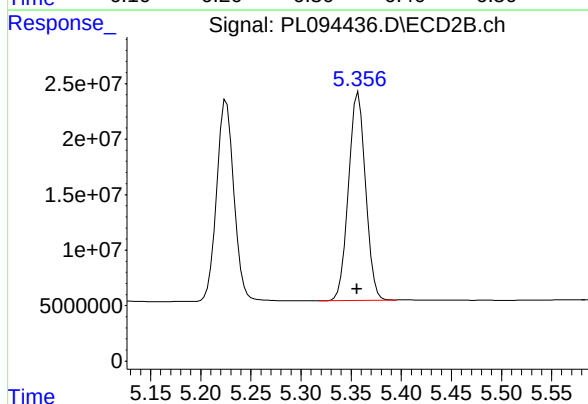
#13 Dieldrin

R.T.: 6.342 min
Delta R.T.: 0.002 min
Response: 140346218
Conc: 49.26 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB166896BS

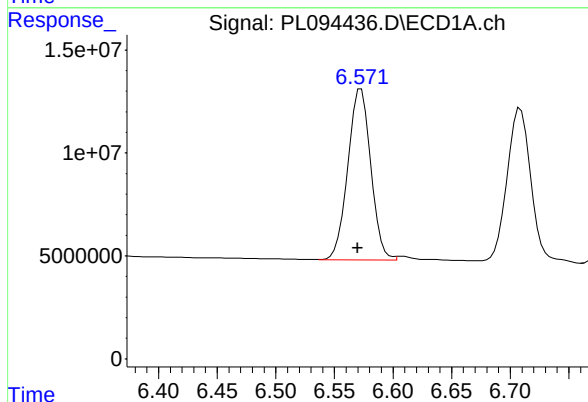
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



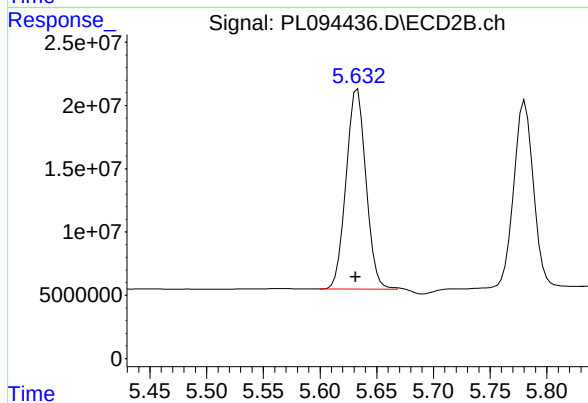
#13 Dieldrin

R.T.: 5.357 min
Delta R.T.: 0.001 min
Response: 222359179
Conc: 50.75 ng/ml



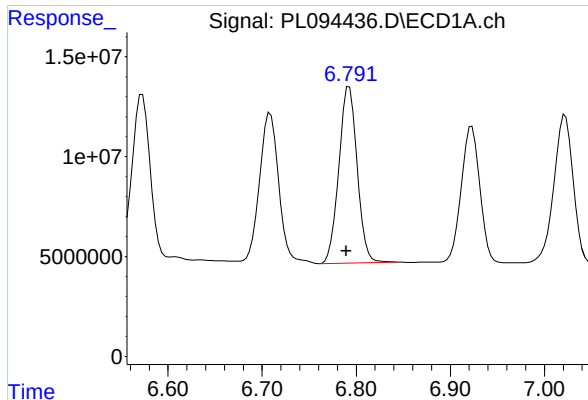
#14 Endrin

R.T.: 6.571 min
Delta R.T.: 0.002 min
Response: 113699859
Conc: 44.55 ng/ml m



#14 Endrin

R.T.: 5.632 min
Delta R.T.: 0.000 min
Response: 193176978
Conc: 56.74 ng/ml m



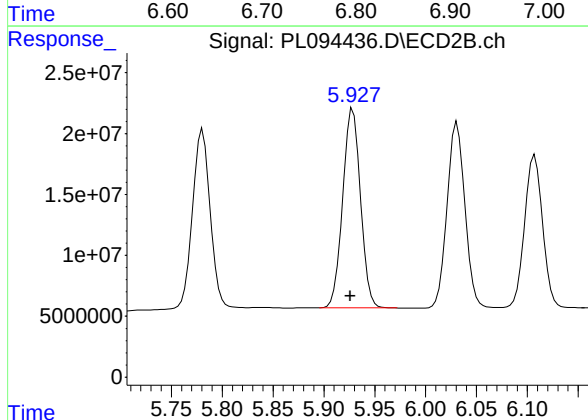
#15 Endosulfan II

R.T.: 6.793 min
Delta R.T.: 0.003 min
Response: 119195598
Conc: 47.35 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB166896BS

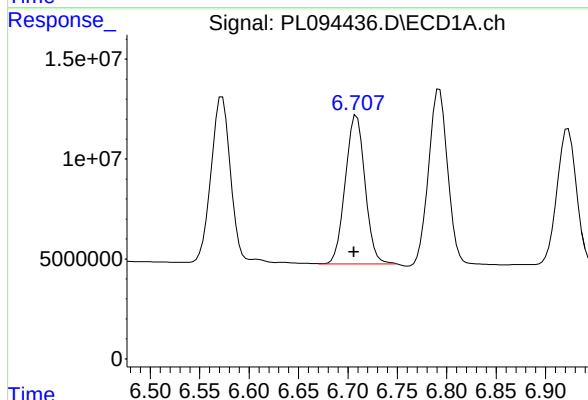
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



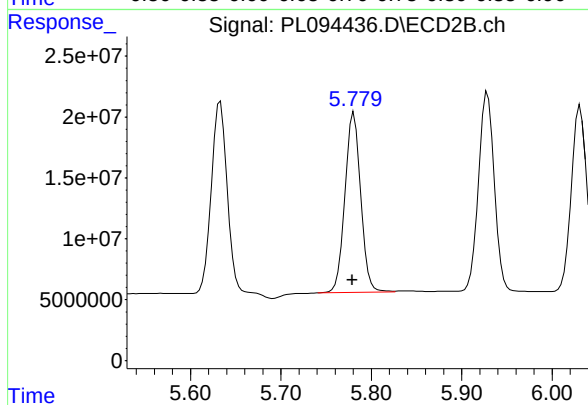
#15 Endosulfan II

R.T.: 5.928 min
Delta R.T.: 0.002 min
Response: 199226118
Conc: 53.28 ng/ml



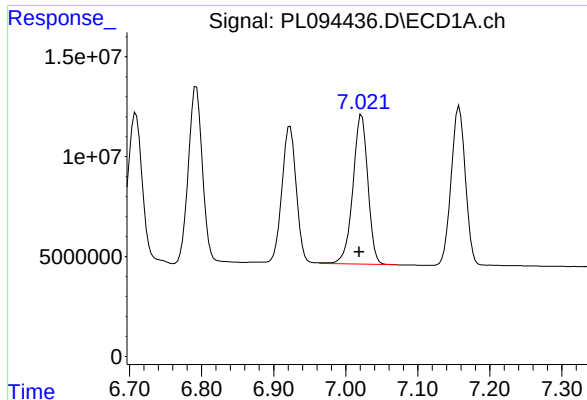
#16 4,4'-DDD

R.T.: 6.707 min
Delta R.T.: 0.001 min
Response: 103290790
Conc: 55.84 ng/ml m



#16 4,4'-DDD

R.T.: 5.781 min
Delta R.T.: 0.002 min
Response: 178980034
Conc: 56.19 ng/ml



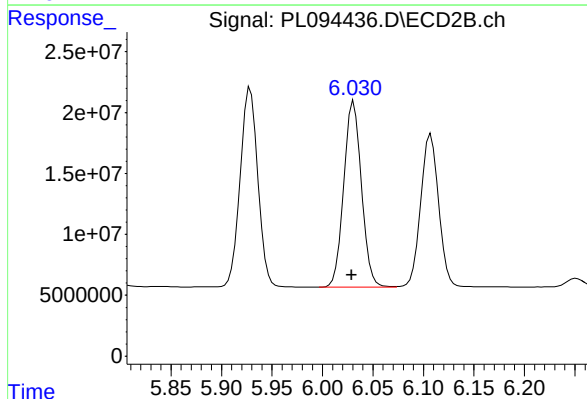
#17 4,4'-DDT

R.T.: 7.022 min
Delta R.T.: 0.003 min
Response: 107913601
Conc: 51.39 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB166896BS

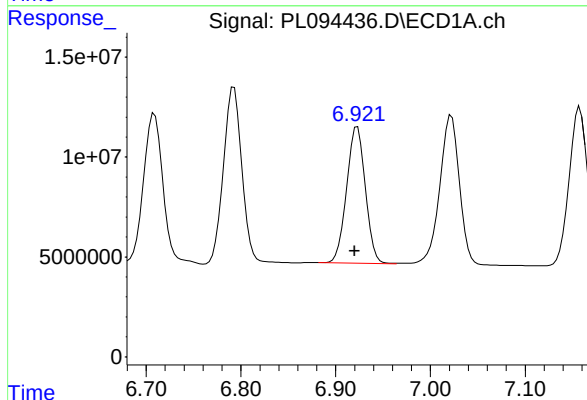
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



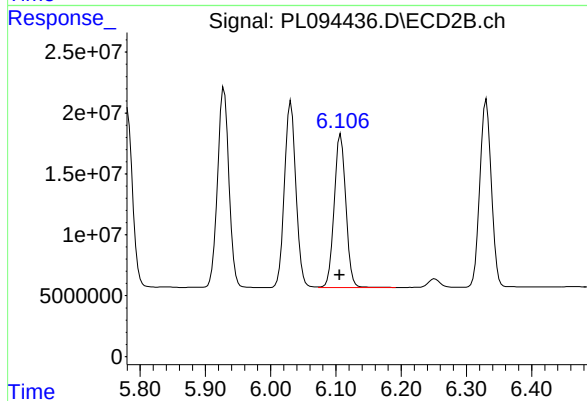
#17 4,4'-DDT

R.T.: 6.031 min
Delta R.T.: 0.002 min
Response: 186538366
Conc: 52.44 ng/ml



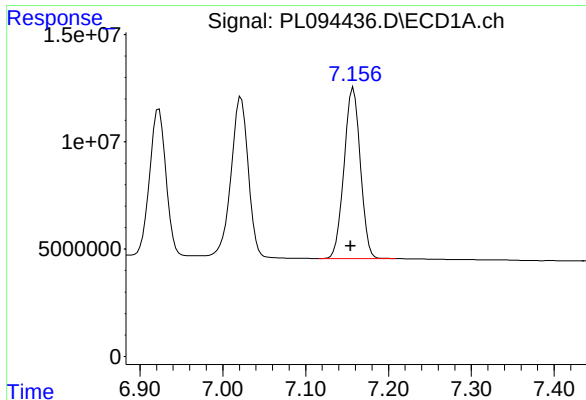
#18 Endrin aldehyde

R.T.: 6.923 min
Delta R.T.: 0.003 min
Response: 93851699
Conc: 48.21 ng/ml



#18 Endrin aldehyde

R.T.: 6.107 min
Delta R.T.: 0.002 min
Response: 156118680
Conc: 49.40 ng/ml



#19 Endosulfan Sulfate

R.T.: 7.158 min
Delta R.T.: 0.003 min
Response: 108932324
Conc: 48.12 ng/ml

Instrument :

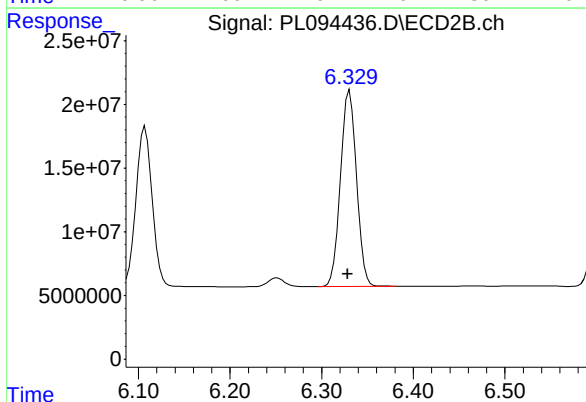
ECD_L

ClientSampleId :

PB166896BS

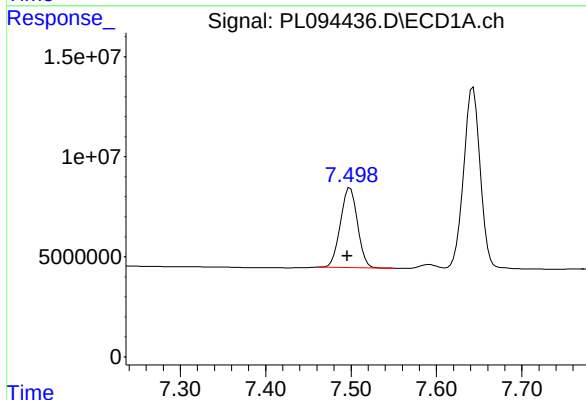
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



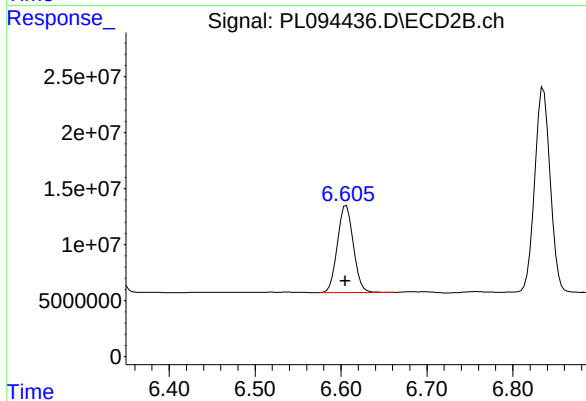
#19 Endosulfan Sulfate

R.T.: 6.330 min
Delta R.T.: 0.002 min
Response: 188167904
Conc: 50.94 ng/ml



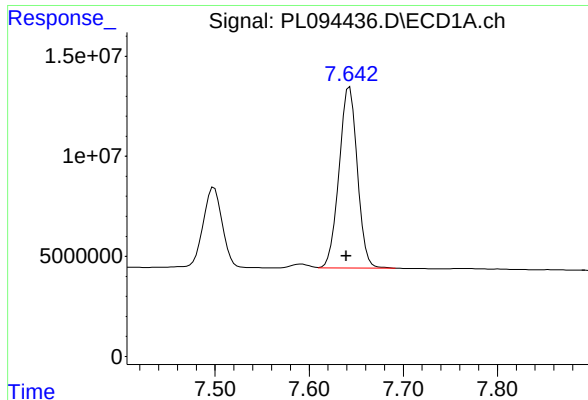
#20 Methoxychlor

R.T.: 7.499 min
Delta R.T.: 0.003 min
Response: 55252524
Conc: 49.73 ng/ml



#20 Methoxychlor

R.T.: 6.606 min
Delta R.T.: 0.001 min
Response: 99677369
Conc: 51.09 ng/ml



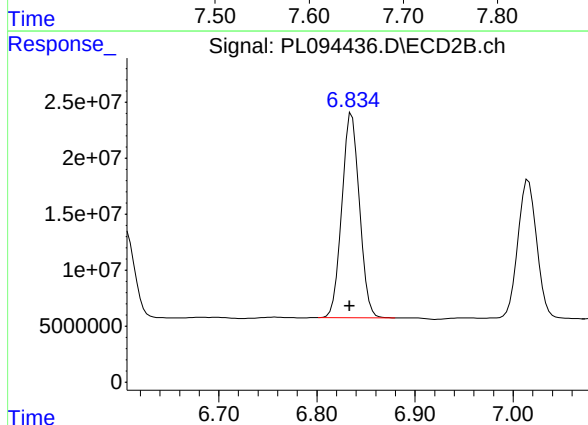
#21 Endrin ketone

R.T.: 7.643 min
Delta R.T.: 0.004 min
Response: 121908432
Conc: 48.63 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB166896BS

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



#21 Endrin ketone

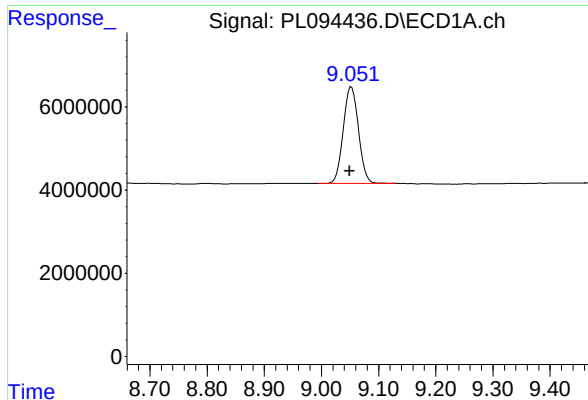
R.T.: 6.835 min
Delta R.T.: 0.002 min
Response: 227911319
Conc: 53.41 ng/ml

#22 Mirex

R.T.: 8.115 min
Delta R.T.: 0.004 min
Response: 90054734
Conc: 43.65 ng/ml

#22 Mirex

R.T.: 7.016 min
Delta R.T.: 0.003 min
Response: 165072687
Conc: 47.34 ng/ml



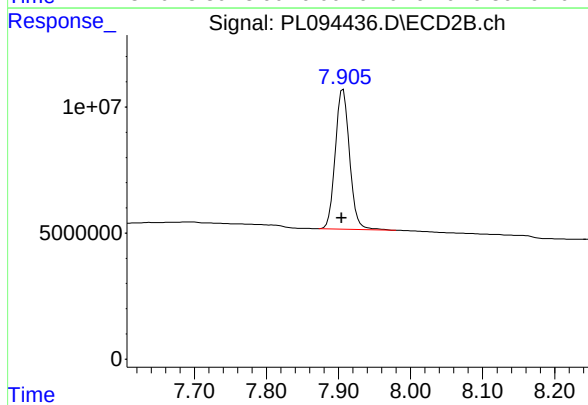
#28 Decachlorobiphenyl

R.T.: 9.052 min
Delta R.T.: 0.003 min
Response: 42914390
Conc: 20.17 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB166896BS

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



#28 Decachlorobiphenyl

R.T.: 7.906 min
Delta R.T.: 0.002 min
Response: 75713041
Conc: 19.69 ng/ml

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	02/24/25	
Project:	RFP 905		Date Received:	02/24/25	
Client Sample ID:	P001-CLAY-CF01-01MS		SDG No.:	Q1421	
Lab Sample ID:	Q1421-05MS		Matrix:	WATER	
Analytical Method:	SW8081		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	SPLP Pesticide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094439.D	1	02/27/25 09:10	02/27/25 21:21	PB166896

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.59		0.0061	0.050	ug/L
319-85-7	beta-BHC	0.60		0.014	0.050	ug/L
319-86-8	delta-BHC	0.59		0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.59		0.0049	0.050	ug/L
76-44-8	Heptachlor	0.57		0.0054	0.050	ug/L
309-00-2	Aldrin	0.55		0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.58		0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.60		0.0050	0.050	ug/L
60-57-1	Dieldrin	0.61		0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.61		0.0045	0.050	ug/L
72-20-8	Endrin	0.70	P	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.63		0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.67		0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.61		0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.63		0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.60		0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.61		0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.57		0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.60		0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.60		0.0060	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	25.4		43 - 140	127%	SPK: 20
877-09-8	Tetrachloro-m-xylene	26.3	*	77 - 126	132%	SPK: 20

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	02/24/25	
Project:	RFP 905		Date Received:	02/24/25	
Client Sample ID:	P001-CLAY-CF01-01MS		SDG No.:	Q1421	
Lab Sample ID:	Q1421-05MS		Matrix:	WATER	
Analytical Method:	SW8081		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	SPLP Pesticide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094439.D	1	02/27/25 09:10	02/27/25 21:21	PB166896

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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_L\Data\PL022725\
 Data File : PL094439.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Feb 2025 21:21
 Operator : AR\AJ
 Sample : Q1421-05MS
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 P001-CLAY-CF01-01MS

Manual Integrations APPROVED

Reviewed By : Abdul Mirza 03/02/2025
 Supervised By : Ankita Jodhani 03/04/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 27 22:20:08 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
 Quant Title : GC Extractables
 QLast Update : Fri Feb 21 14:52:19 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 x0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.538	2.772	66808969	80925788	26.312	25.359
28) SA Decachlor...	9.055	7.907	53662971	97669936	25.226	25.398
Target Compounds						
2) A alpha-BHC	3.994	3.274	216.4E6	291.0E6	57.198	59.213
3) MA gamma-BHC...	4.325	3.604	208.9E6	275.7E6	56.533m	58.538
4) MA Heptachlor	4.914	3.942	190.4E6	270.0E6	56.174	57.190
5) MB Aldrin	5.256	4.221	184.8E6	254.7E6	53.846	55.127
6) B beta-BHC	4.525	3.904	89762447	118.5E6	56.210	59.581
7) B delta-BHC	4.770	4.132	205.8E6	279.6E6	58.178m	59.045
8) B Heptachlo...	5.682	4.723	172.5E6	248.7E6	57.251	58.453
9) A Endosulfan I	6.068	5.093	156.4E6	239.4E6	56.892	60.061
10) B gamma-Chl...	5.939	4.974	169.6E6	261.1E6	57.755	60.181
11) B alpha-Chl...	6.018	5.037	167.8E6	258.3E6	57.919	59.823
12) B 4,4'-DDE	6.191	5.226	156.9E6	257.1E6	60.083	61.203
13) MA Dieldrin	6.343	5.358	164.4E6	267.0E6	57.686	60.923
14) MA Endrin	6.572	5.632	137.4E6	239.1E6	53.818m	70.214m#
15) B Endosulfa...	6.794	5.928	140.4E6	236.5E6	55.756	63.249
16) A 4,4'-DDD	6.709	5.781	124.4E6	212.8E6	67.277	66.811
17) MA 4,4'-DDT	7.023	6.031	128.7E6	224.7E6	61.263	63.179
18) B Endrin al...	6.924	6.107	105.2E6	178.6E6	54.043	56.520
19) B Endosulfa...	7.158	6.331	127.6E6	223.6E6	56.356	60.533
20) A Methoxychlor	7.499	6.607	64858385	116.7E6	58.376	59.807
21) B Endrin ke...	7.643	6.836	140.2E6	261.9E6	55.907	61.382
22) Mirex	8.115	7.015	103.6E6	194.1E6	50.216	55.652

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022725\
 Data File : PL094439.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Feb 2025 21:21
 Operator : AR\AJ
 Sample : Q1421-05MS
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :

ECD_L

ClientSampleId :

P001-CLAY-CF01-01MS

Manual Integrations

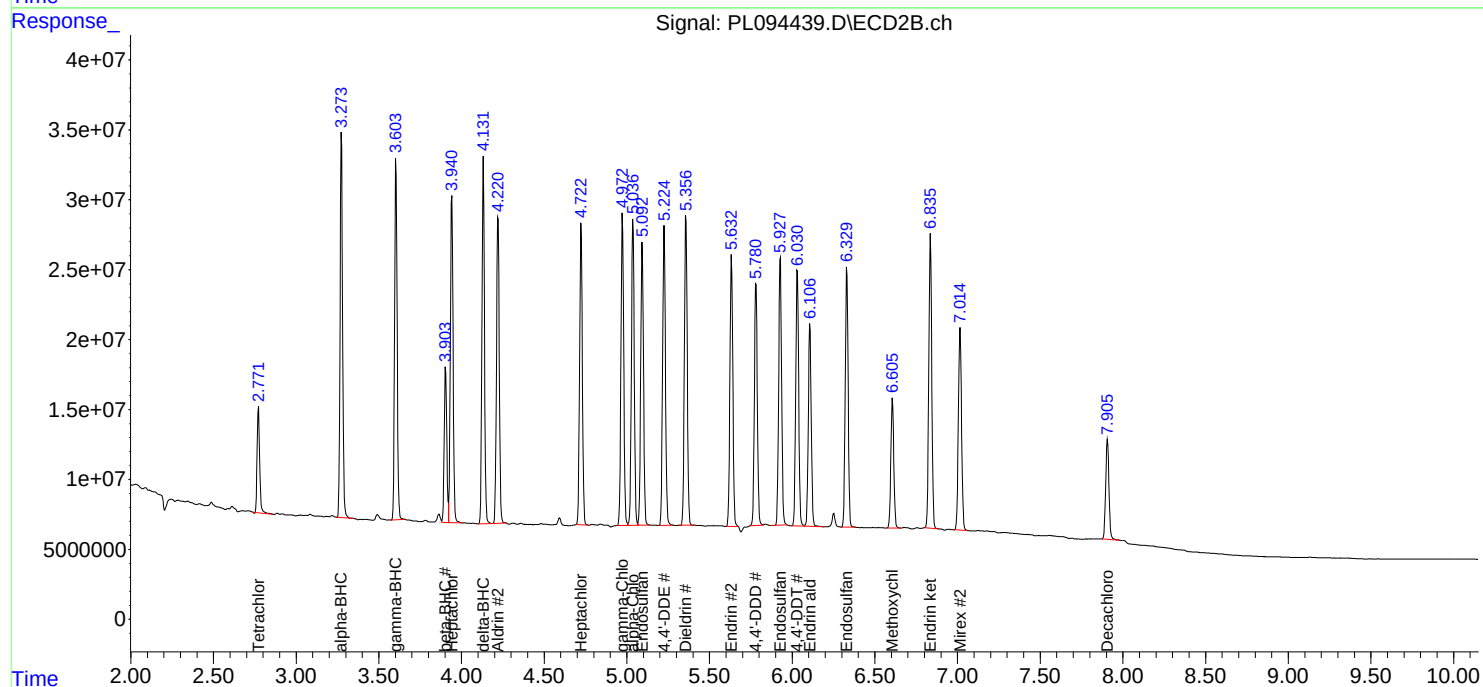
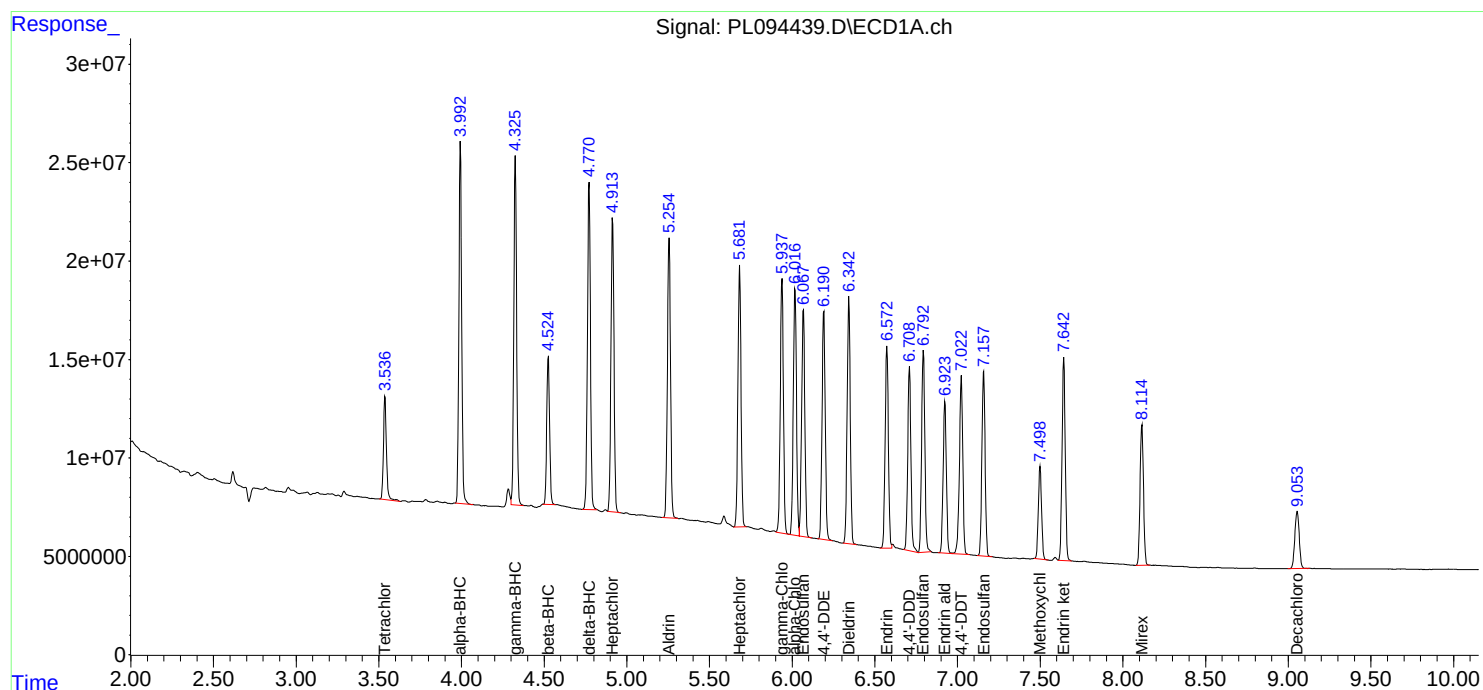
APPROVED

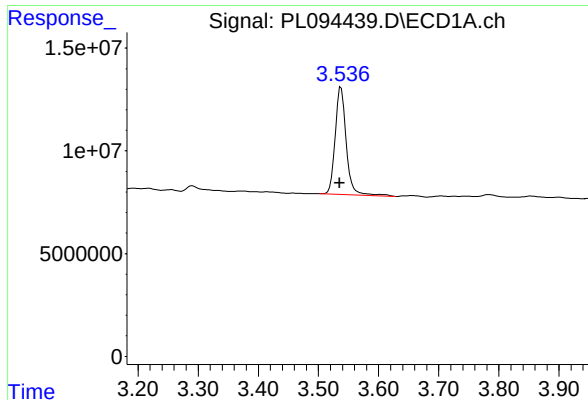
Reviewed By :Abdul Mirza 03/02/2025

Supervised By :Ankita Jodhani 03/04/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 27 22:20:08 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
 Quant Title : GC Extractables
 QLast Update : Fri Feb 21 14:52:19 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 x0.25µm





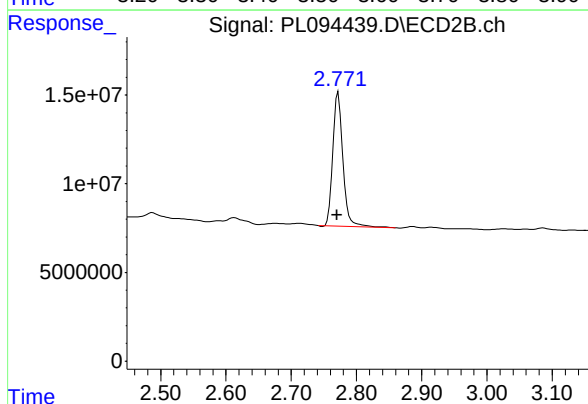
#1 Tetrachloro-m-xylene

R.T.: 3.538 min
Delta R.T.: 0.003 min
Response: 66808969
Conc: 26.31 ng/ml

Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF01-01MS

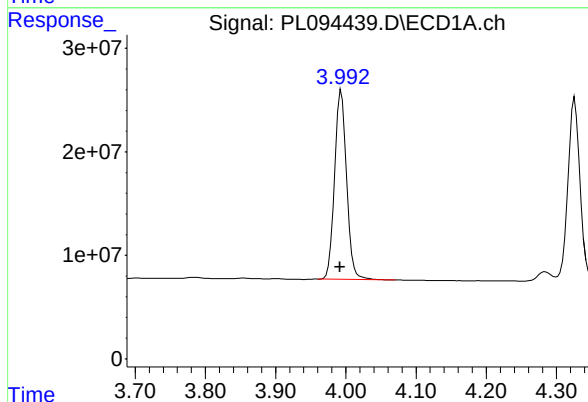
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



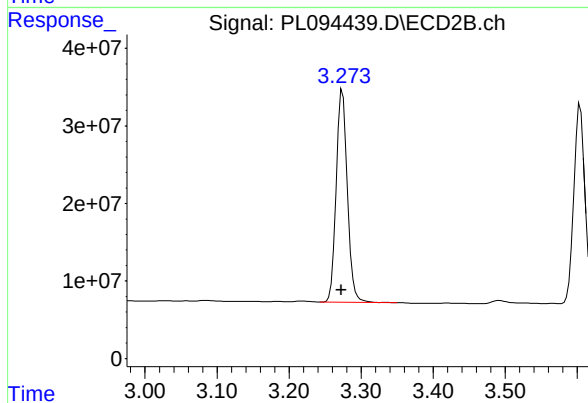
#1 Tetrachloro-m-xylene

R.T.: 2.772 min
Delta R.T.: 0.002 min
Response: 80925788
Conc: 25.36 ng/ml



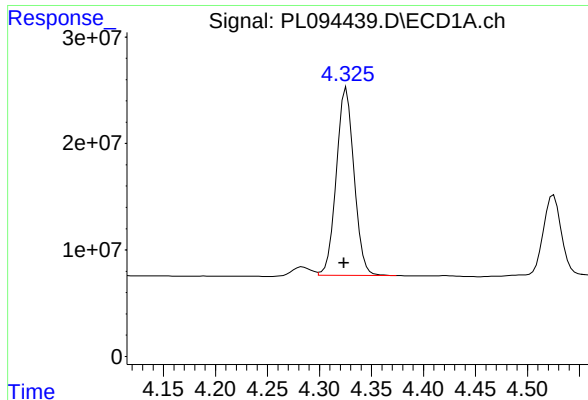
#2 alpha-BHC

R.T.: 3.994 min
Delta R.T.: 0.002 min
Response: 216359868
Conc: 57.20 ng/ml



#2 alpha-BHC

R.T.: 3.274 min
Delta R.T.: 0.002 min
Response: 291021028
Conc: 59.21 ng/ml



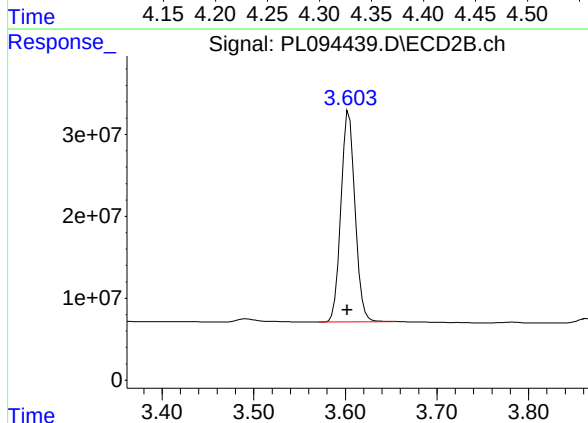
#3 gamma-BHC (Lindane)

R.T.: 4.325 min
Delta R.T.: 0.000 min
Response: 208873799
Conc: 56.53 ng/ml

Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF01-01MS

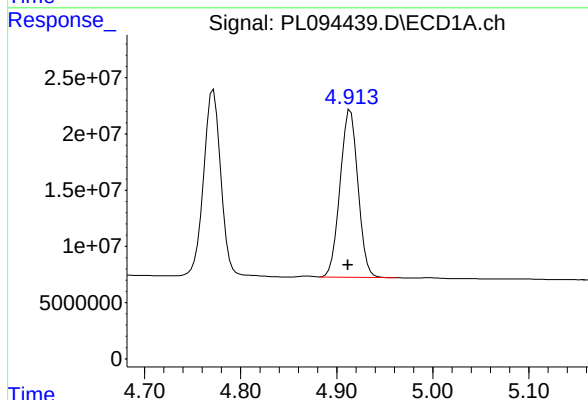
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



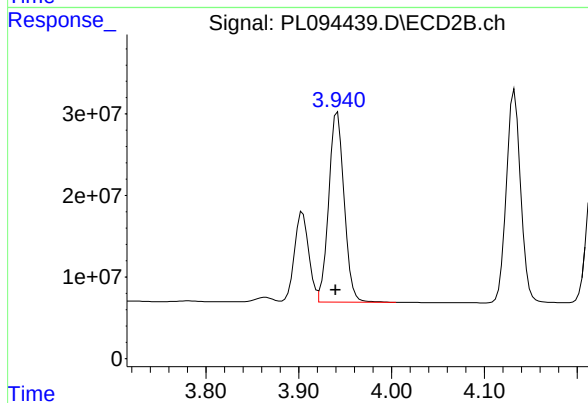
#3 gamma-BHC (Lindane)

R.T.: 3.604 min
Delta R.T.: 0.002 min
Response: 275709977
Conc: 58.54 ng/ml



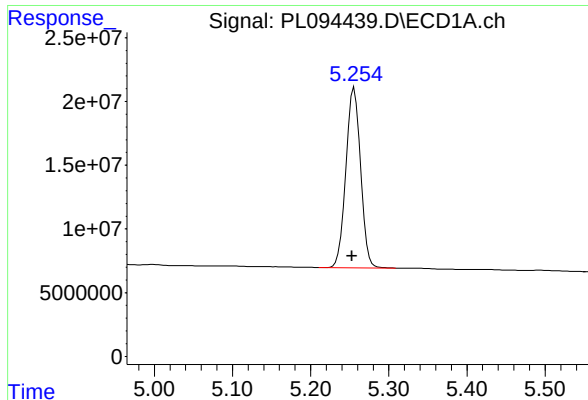
#4 Heptachlor

R.T.: 4.914 min
Delta R.T.: 0.003 min
Response: 190449407
Conc: 56.17 ng/ml



#4 Heptachlor

R.T.: 3.942 min
Delta R.T.: 0.002 min
Response: 269952634
Conc: 57.19 ng/ml



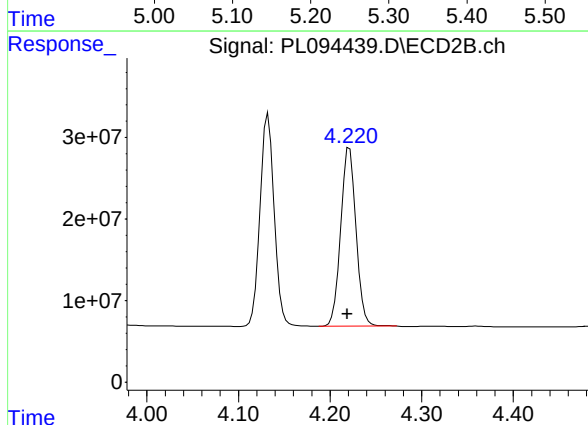
#5 Aldrin

R.T.: 5.256 min
Delta R.T.: 0.003 min
Response: 184786048
Conc: 53.85 ng/ml

Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF01-01MS

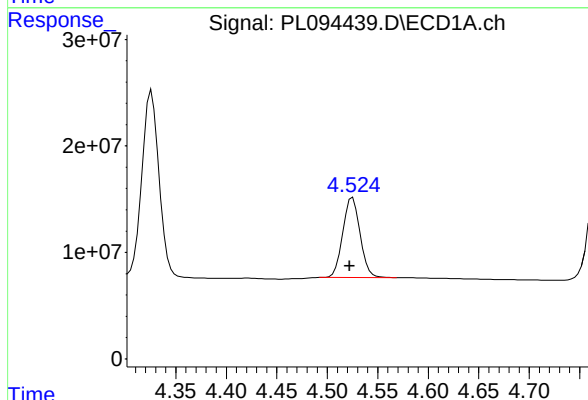
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



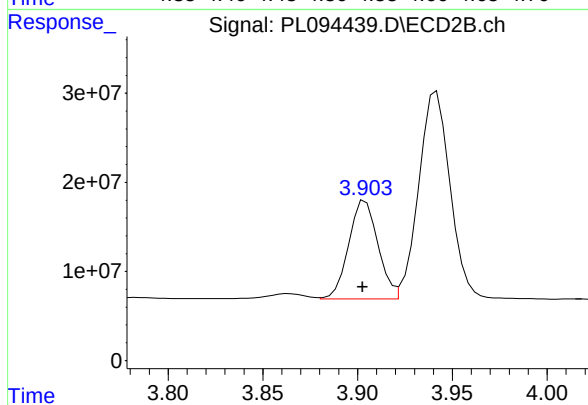
#5 Aldrin

R.T.: 4.221 min
Delta R.T.: 0.002 min
Response: 254707370
Conc: 55.13 ng/ml



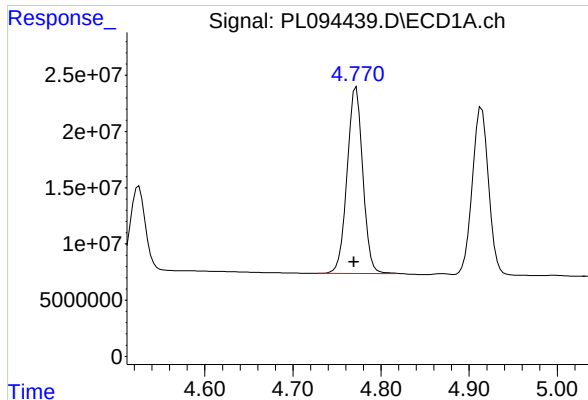
#6 beta-BHC

R.T.: 4.525 min
Delta R.T.: 0.003 min
Response: 89762447
Conc: 56.21 ng/ml



#6 beta-BHC

R.T.: 3.904 min
Delta R.T.: 0.002 min
Response: 118501723
Conc: 59.58 ng/ml



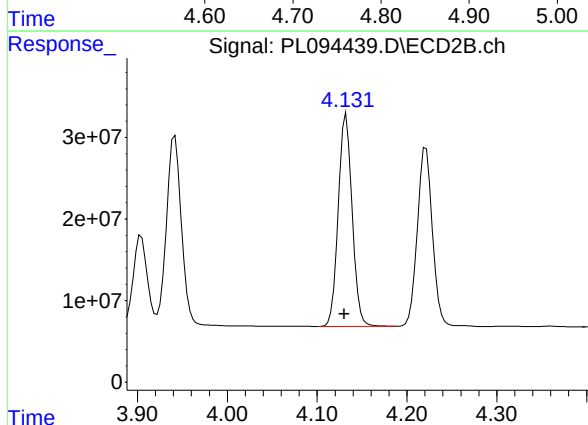
#7 delta-BHC

R.T.: 4.770 min
Delta R.T.: 0.001 min
Response: 205849312
Conc: 58.18 ng/ml

Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF01-01MS

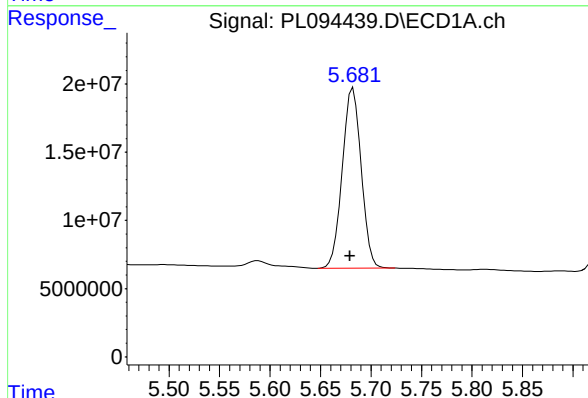
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



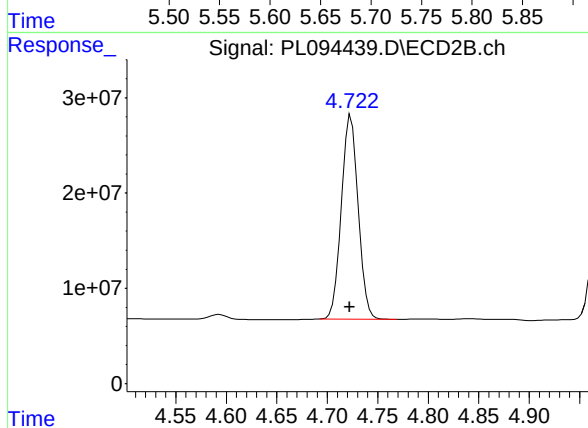
#7 delta-BHC

R.T.: 4.132 min
Delta R.T.: 0.002 min
Response: 279621596
Conc: 59.05 ng/ml



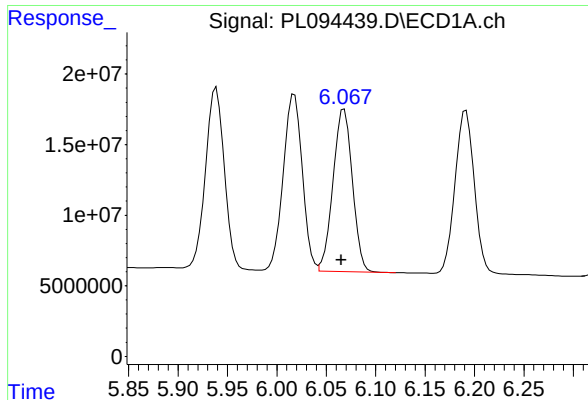
#8 Heptachlor epoxide

R.T.: 5.682 min
Delta R.T.: 0.003 min
Response: 172519537
Conc: 57.25 ng/ml



#8 Heptachlor epoxide

R.T.: 4.723 min
Delta R.T.: 0.002 min
Response: 248741477
Conc: 58.45 ng/ml



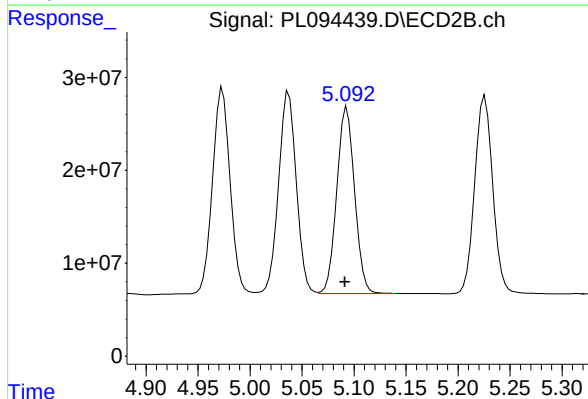
#9 Endosulfan I

R.T.: 6.068 min
Delta R.T.: 0.003 min
Response: 156373903
Conc: 56.89 ng/ml

Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF01-01MS

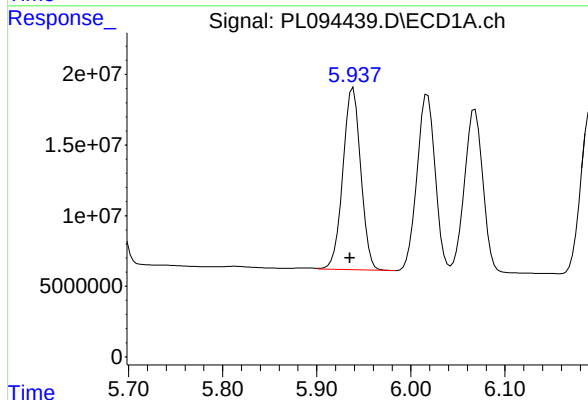
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



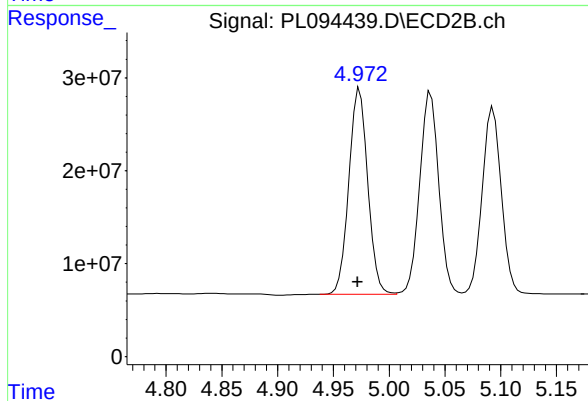
#9 Endosulfan I

R.T.: 5.093 min
Delta R.T.: 0.002 min
Response: 239438394
Conc: 60.06 ng/ml



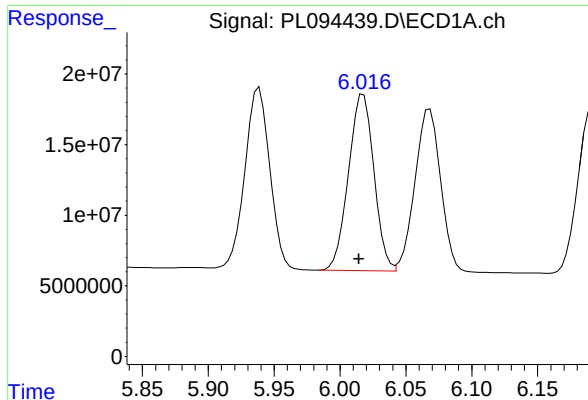
#10 gamma-Chlordane

R.T.: 5.939 min
Delta R.T.: 0.003 min
Response: 169576238
Conc: 57.75 ng/ml



#10 gamma-Chlordane

R.T.: 4.974 min
Delta R.T.: 0.002 min
Response: 261115868
Conc: 60.18 ng/ml



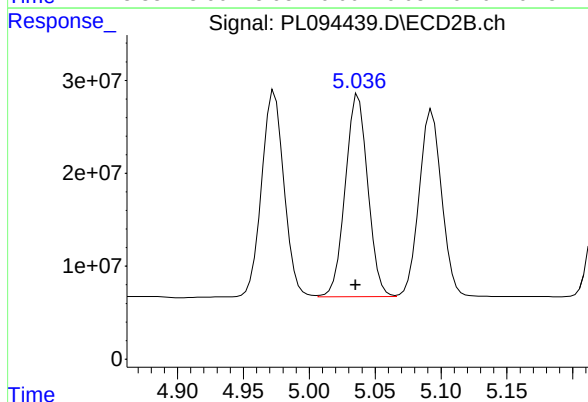
#11 alpha-Chlordane

R.T.: 6.018 min
Delta R.T.: 0.003 min
Response: 167797300
Conc: 57.92 ng/ml

Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF01-01MS

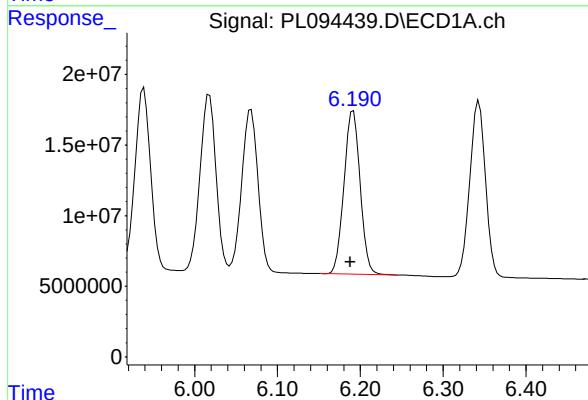
Manual Integrations
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Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



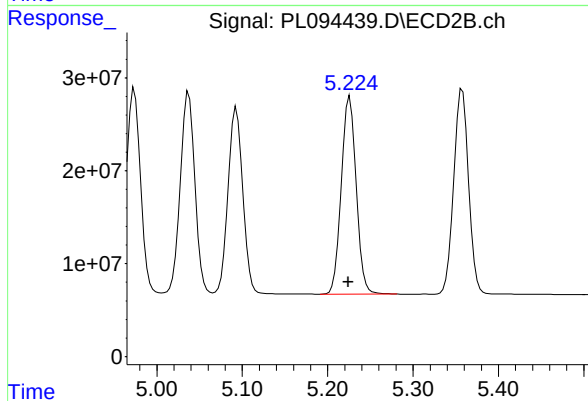
#11 alpha-Chlordane

R.T.: 5.037 min
Delta R.T.: 0.002 min
Response: 258290164
Conc: 59.82 ng/ml



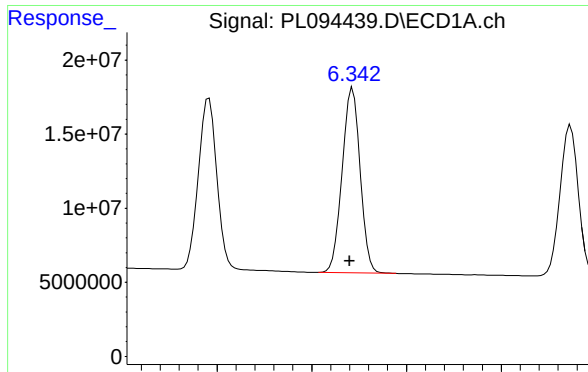
#12 4,4'-DDE

R.T.: 6.191 min
Delta R.T.: 0.003 min
Response: 156920100
Conc: 60.08 ng/ml



#12 4,4'-DDE

R.T.: 5.226 min
Delta R.T.: 0.002 min
Response: 257052477
Conc: 61.20 ng/ml



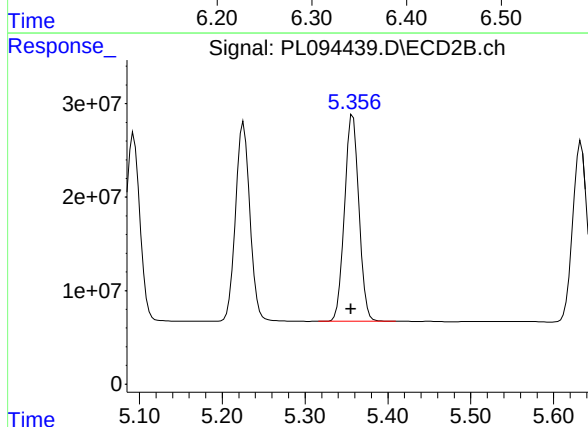
#13 Dieldrin

R.T.: 6.343 min
Delta R.T.: 0.003 min
Response: 164350316
Conc: 57.69 ng/ml

Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF01-01MS

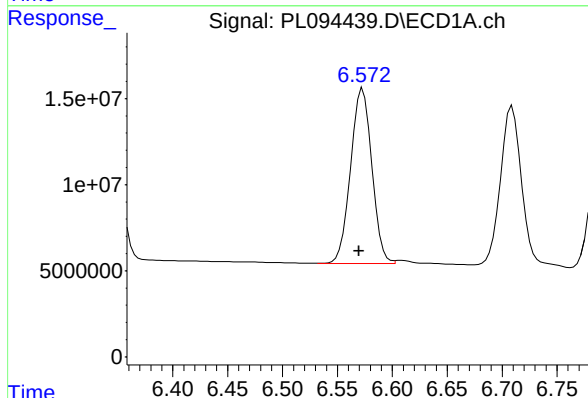
Manual Integrations
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Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



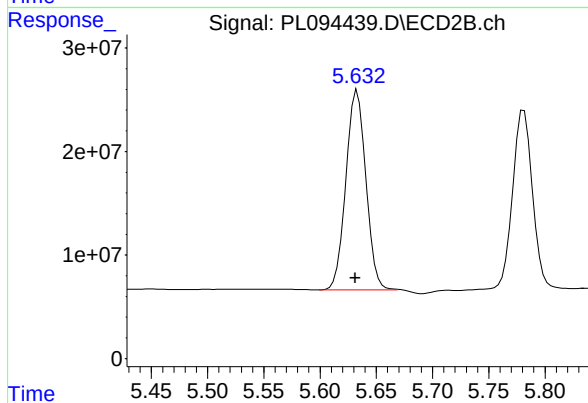
#13 Dieldrin

R.T.: 5.358 min
Delta R.T.: 0.002 min
Response: 266952590
Conc: 60.92 ng/ml



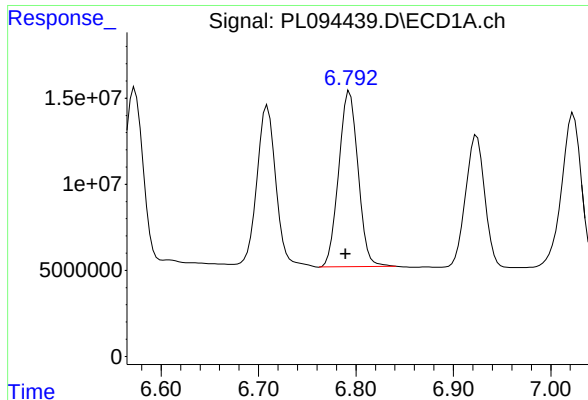
#14 Endrin

R.T.: 6.572 min
Delta R.T.: 0.002 min
Response: 137357587
Conc: 53.82 ng/ml m



#14 Endrin

R.T.: 5.632 min
Delta R.T.: 0.000 min
Response: 239057115
Conc: 70.21 ng/ml m



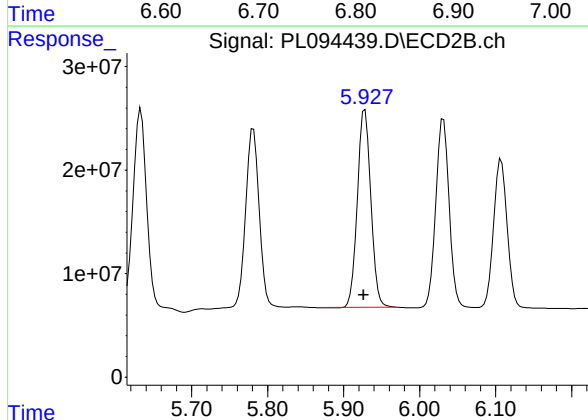
#15 Endosulfan II

R.T.: 6.794 min
Delta R.T.: 0.004 min
Response: 140350827
Conc: 55.76 ng/ml

Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF01-01MS

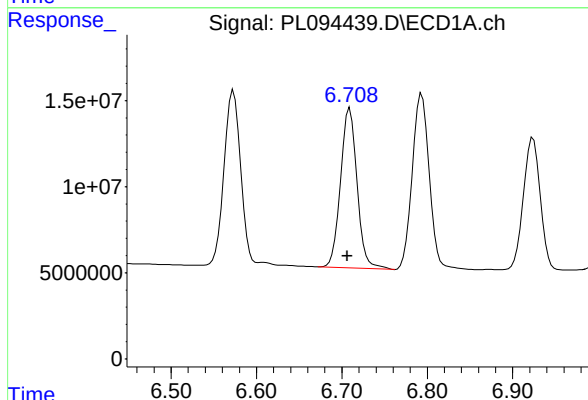
Manual Integrations
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Supervised By :Ankita Jodhani 03/04/2025



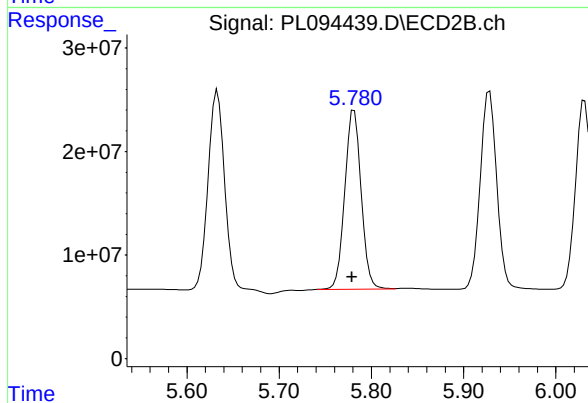
#15 Endosulfan II

R.T.: 5.928 min
Delta R.T.: 0.002 min
Response: 236522349
Conc: 63.25 ng/ml



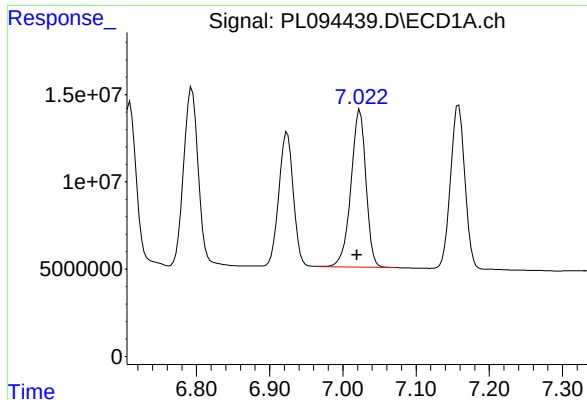
#16 4,4'-DDD

R.T.: 6.709 min
Delta R.T.: 0.003 min
Response: 124446711
Conc: 67.28 ng/ml



#16 4,4'-DDD

R.T.: 5.781 min
Delta R.T.: 0.002 min
Response: 212812887
Conc: 66.81 ng/ml



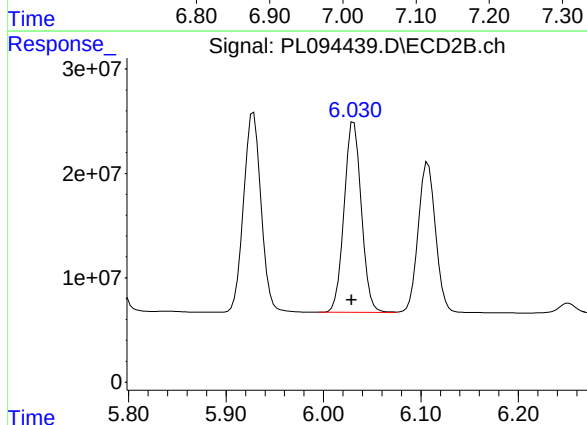
#17 4,4'-DDT

R.T.: 7.023 min
Delta R.T.: 0.004 min
Response: 128653211
Conc: 61.26 ng/ml

Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF01-01MS

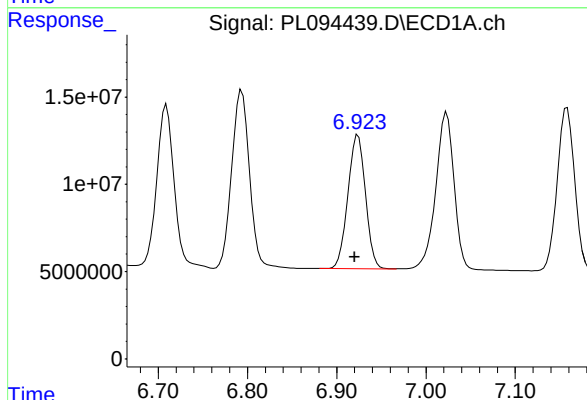
Manual Integrations
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Supervised By :Ankita Jodhani 03/04/2025



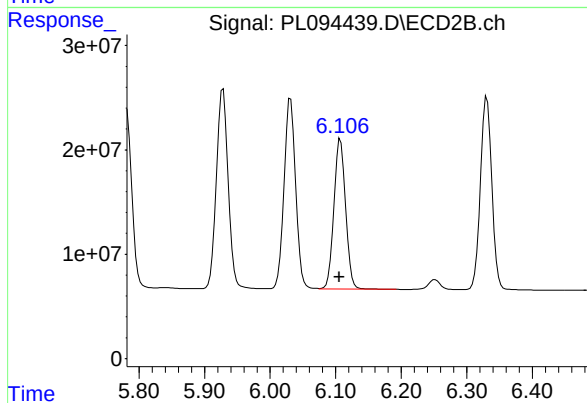
#17 4,4'-DDT

R.T.: 6.031 min
Delta R.T.: 0.002 min
Response: 224726716
Conc: 63.18 ng/ml



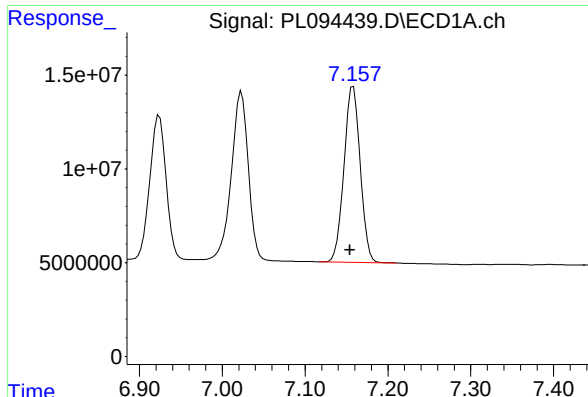
#18 Endrin aldehyde

R.T.: 6.924 min
Delta R.T.: 0.004 min
Response: 105211041
Conc: 54.04 ng/ml



#18 Endrin aldehyde

R.T.: 6.107 min
Delta R.T.: 0.002 min
Response: 178628912
Conc: 56.52 ng/ml



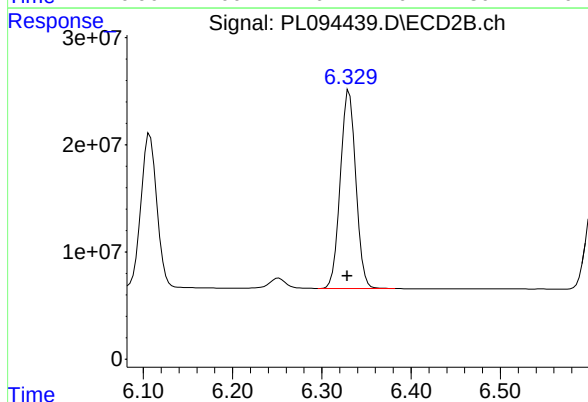
#19 Endosulfan Sulfate

R.T.: 7.158 min
Delta R.T.: 0.004 min
Response: 127580950
Conc: 56.36 ng/ml

Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF01-01MS

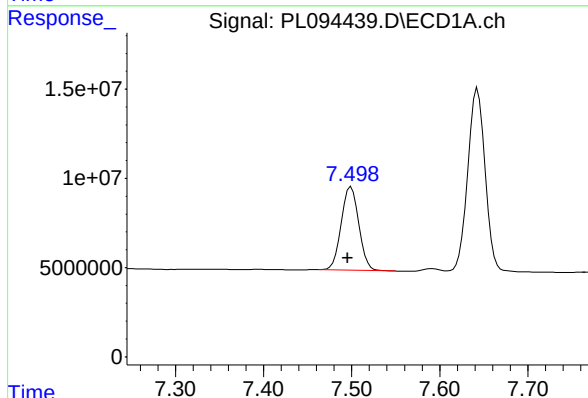
Manual Integrations
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Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



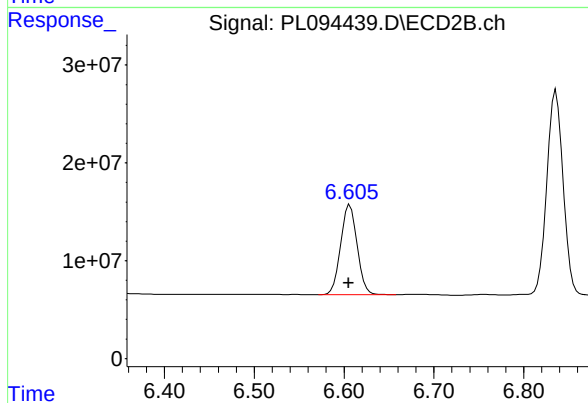
#19 Endosulfan Sulfate

R.T.: 6.331 min
Delta R.T.: 0.002 min
Response: 223586411
Conc: 60.53 ng/ml



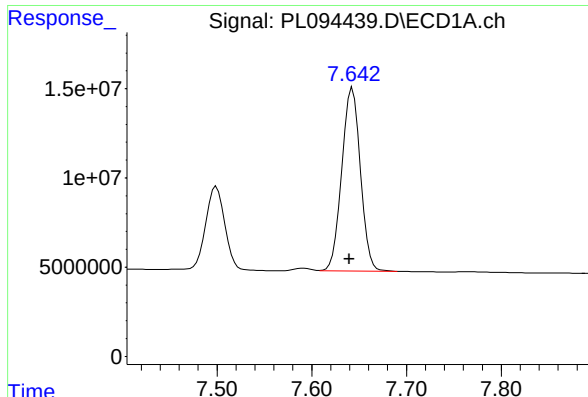
#20 Methoxychlor

R.T.: 7.499 min
Delta R.T.: 0.004 min
Response: 64858385
Conc: 58.38 ng/ml



#20 Methoxychlor

R.T.: 6.607 min
Delta R.T.: 0.002 min
Response: 116685003
Conc: 59.81 ng/ml



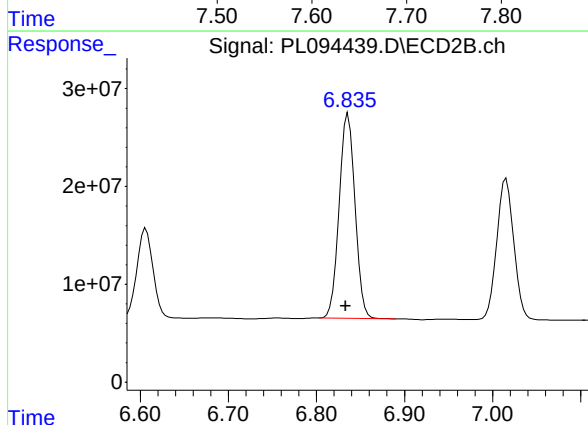
#21 Endrin ketone

R.T.: 7.643 min
Delta R.T.: 0.003 min
Response: 140154272
Conc: 55.91 ng/ml

Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
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Supervised By :Ankita Jodhani 03/04/2025



#21 Endrin ketone

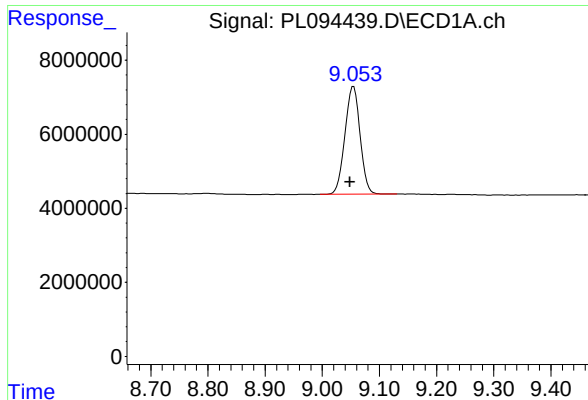
R.T.: 6.836 min
Delta R.T.: 0.003 min
Response: 261947818
Conc: 61.38 ng/ml

#22 Mirex

R.T.: 8.115 min
Delta R.T.: 0.004 min
Response: 103610904
Conc: 50.22 ng/ml

#22 Mirex

R.T.: 7.015 min
Delta R.T.: 0.003 min
Response: 194059309
Conc: 55.65 ng/ml



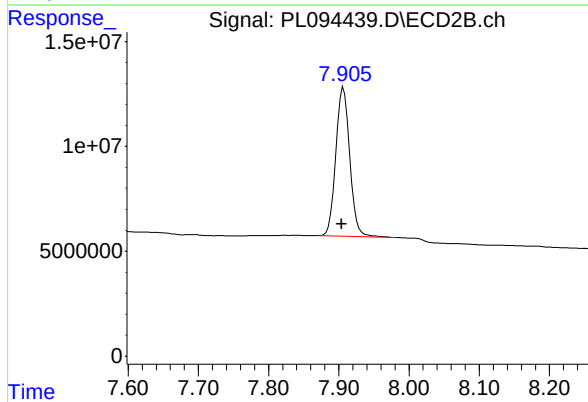
#28 Decachlorobiphenyl

R.T.: 9.055 min
Delta R.T.: 0.006 min
Response: 53662971
Conc: 25.23 ng/ml

Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
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Supervised By :Ankita Jodhani 03/04/2025



#28 Decachlorobiphenyl

R.T.: 7.907 min
Delta R.T.: 0.002 min
Response: 97669936
Conc: 25.40 ng/ml

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MSD	SDG No.:	Q1421
Lab Sample ID:	Q1421-06MSD	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	SPLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094440.D	1	02/27/25 09:10	02/27/25 21:35	PB166896

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.60		0.0061	0.050	ug/L
319-85-7	beta-BHC	0.60		0.014	0.050	ug/L
319-86-8	delta-BHC	0.60		0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.59		0.0049	0.050	ug/L
76-44-8	Heptachlor	0.58		0.0054	0.050	ug/L
309-00-2	Aldrin	0.55		0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.59		0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.61		0.0050	0.050	ug/L
60-57-1	Dieldrin	0.61		0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.61		0.0045	0.050	ug/L
72-20-8	Endrin	0.71	P	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.64		0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.68		0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.61		0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.64		0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.60		0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.62		0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.57		0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.60		0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.61		0.0060	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	25.8		43 - 140	129%	SPK: 20
877-09-8	Tetrachloro-m-xylene	25.8	*	77 - 126	129%	SPK: 20

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MSD	SDG No.:	Q1421
Lab Sample ID:	Q1421-06MSD	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Decanted:	
GPC Factor :	1.0	Final Vol:	10000
Prep Method :	3510C	Test:	SPLP Pesticide
		PH :	
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL094440.D	1	02/27/25 09:10	02/27/25 21:35	PB166896

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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_L\Data\PL022725\
 Data File : PL094440.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 27 Feb 2025 21:35
 Operator : AR\AJ
 Sample : Q1421-06MSD
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 ECD_L
 ClientSampleId :
 P001-CLAY-CF01-01MSD

Manual Integrations
 APPROVED

Reviewed By :Abdul Mirza 03/02/2025
 Supervised By :Ankita Jodhani 03/04/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Feb 27 22:20:33 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
 Quant Title : GC Extractables
 QLast Update : Fri Feb 21 14:52:19 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 x0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
1) SA Tetrachlo...	3.538	2.772	65248736	82210016	25.698	25.762
28) SA Decachlor...	9.054	7.907	54643699	99131682	25.687	25.778
Target Compounds						
2) A alpha-BHC	3.994	3.274	220.0E6	294.7E6	58.150	59.960
3) MA gamma-BHC...	4.325	3.604	216.0E6	279.0E6	58.463m	59.245
4) MA Heptachlor	4.914	3.942	193.5E6	272.0E6	57.081	57.619
5) MB Aldrin	5.255	4.221	186.9E6	256.4E6	54.450	55.486
6) B beta-BHC	4.525	3.904	91457518	119.7E6	57.272	60.169
7) B delta-BHC	4.770	4.132	210.0E6	282.4E6	59.357m	59.635
8) B Heptachlo...	5.682	4.723	174.9E6	250.9E6	58.030	58.964
9) A Endosulfan I	6.067	5.093	159.1E6	241.3E6	57.889	60.527
10) B gamma-Chl...	5.939	4.973	172.1E6	263.5E6	58.622	60.721
11) B alpha-Chl...	6.017	5.037	169.9E6	260.3E6	58.660	60.283
12) B 4,4'-DDE	6.191	5.226	159.7E6	258.1E6	61.140	61.457
13) MA Dieldrin	6.343	5.357	167.4E6	268.7E6	58.761	61.311
14) MA Endrin	6.572	5.631	139.8E6	241.3E6	54.769m	70.886m#
15) B Endosulfa...	6.794	5.928	142.6E6	239.1E6	56.634	63.929
16) A 4,4'-DDD	6.709	5.781	125.6E6	213.9E6	67.905	67.139
17) MA 4,4'-DDT	7.023	6.031	129.9E6	226.4E6	61.841	63.655
18) B Endrin al...	6.923	6.108	106.2E6	179.7E6	54.530	56.847
19) B Endosulfa...	7.158	6.330	129.2E6	224.6E6	57.060	60.794
20) A Methoxychlor	7.499	6.606	65807571	117.8E6	59.231	60.392
21) B Endrin ke...	7.644	6.836	142.3E6	263.1E6	56.767	61.650
22) Mirex	8.116	7.015	104.7E6	194.6E6	50.744	55.802

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL022725\
Data File : PL094440.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2025 21:35
Operator : AR\AJ
Sample : Q1421-06MSD
Misc :
ALS Vial : 23 Sample Multiplier: 1

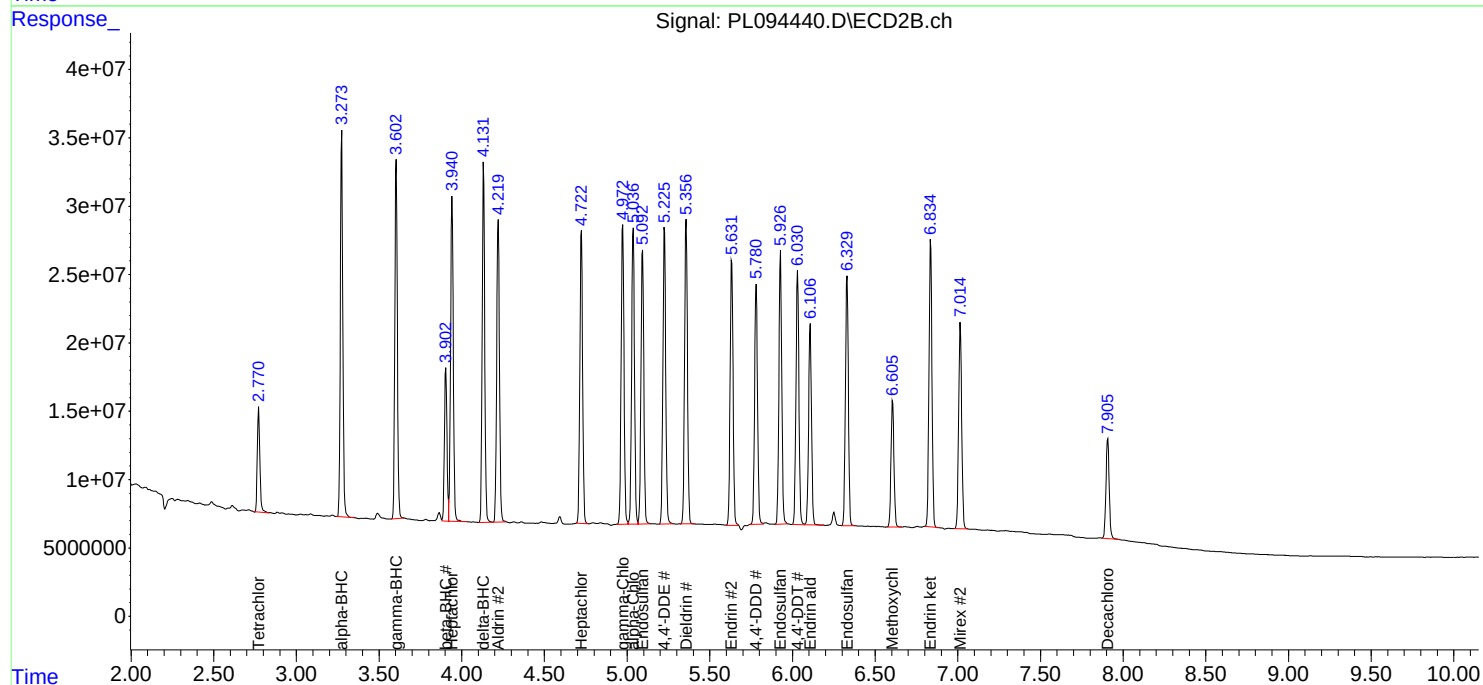
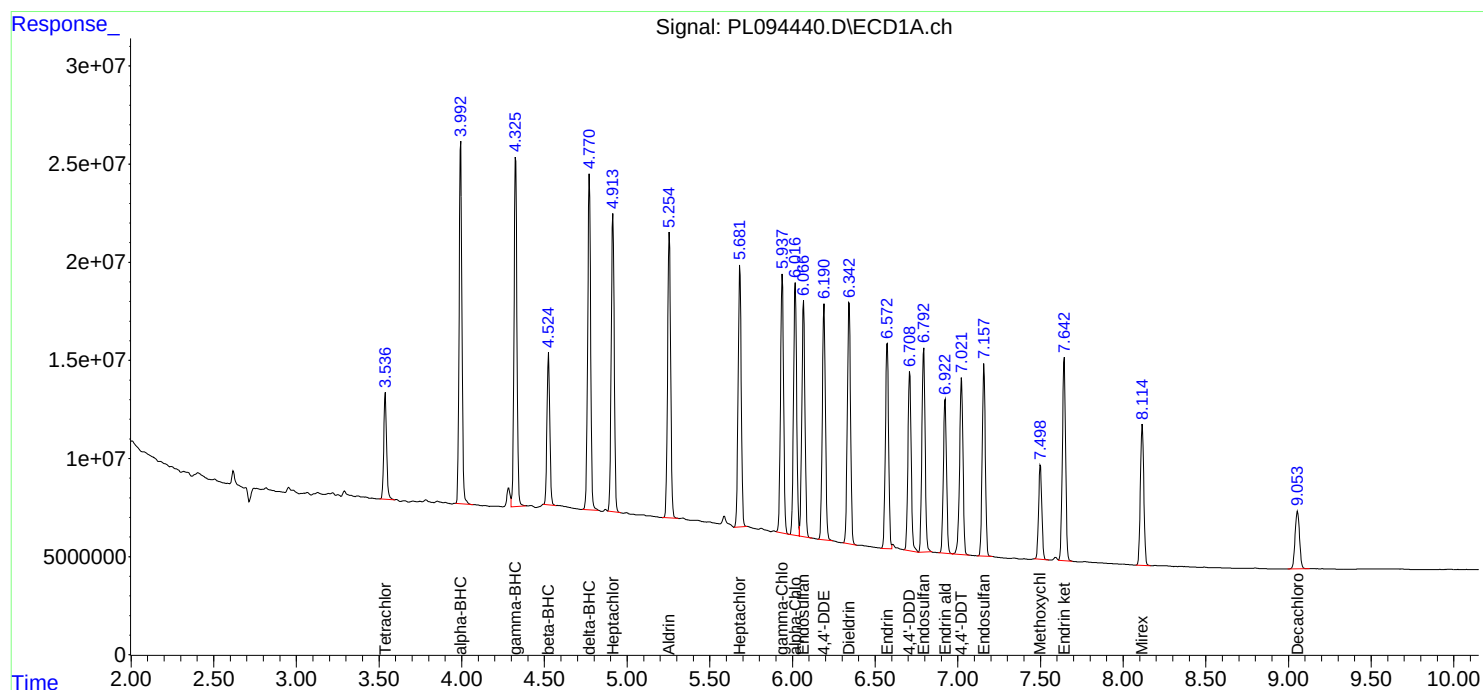
Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF01-01MSD

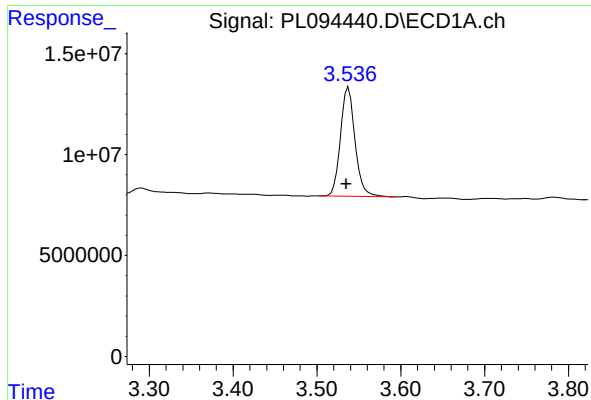
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 27 22:20:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL022125.M
Quant Title : GC Extractables
QLast Update : Fri Feb 21 14:52:19 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 x0.25µm





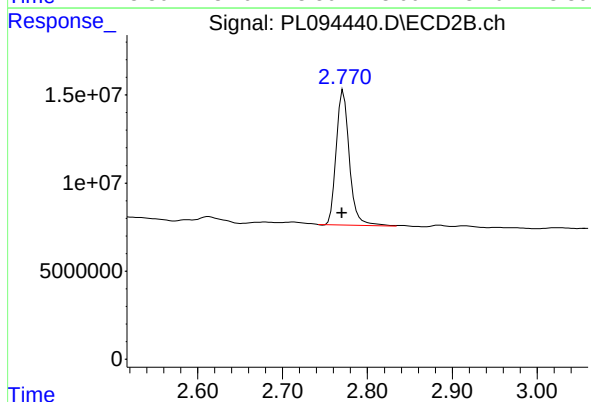
#1 Tetrachloro-m-xylene

R.T.: 3.538 min
Delta R.T.: 0.003 min
Response: 65248736
Conc: 25.70 ng/ml

Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF01-01MSD

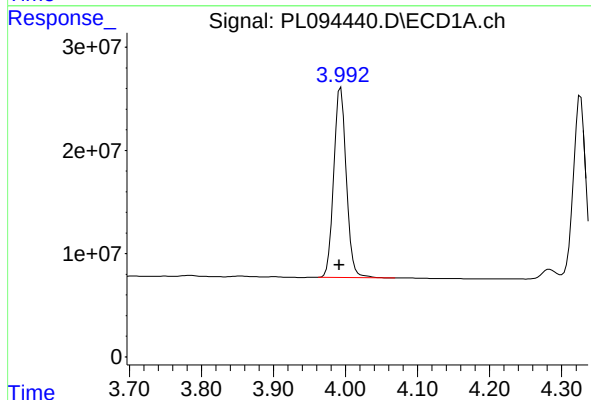
Manual Integrations
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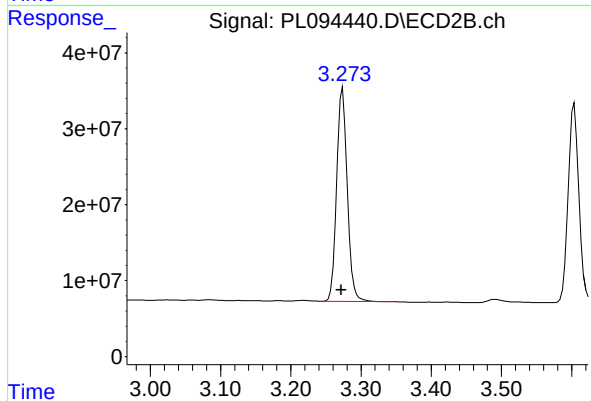
#1 Tetrachloro-m-xylene

R.T.: 2.772 min
Delta R.T.: 0.001 min
Response: 82210016
Conc: 25.76 ng/ml



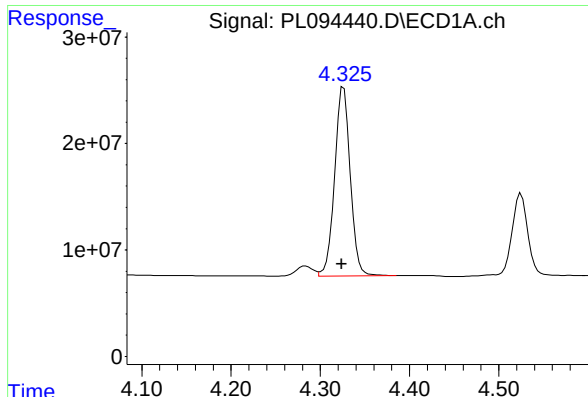
#2 alpha-BHC

R.T.: 3.994 min
Delta R.T.: 0.002 min
Response: 219962755
Conc: 58.15 ng/ml



#2 alpha-BHC

R.T.: 3.274 min
Delta R.T.: 0.002 min
Response: 294692894
Conc: 59.96 ng/ml



#3 gamma-BHC (Lindane)

R.T.: 4.325 min
Delta R.T.: 0.001 min
Response: 216005177
Conc: 58.46 ng/ml

Instrument :

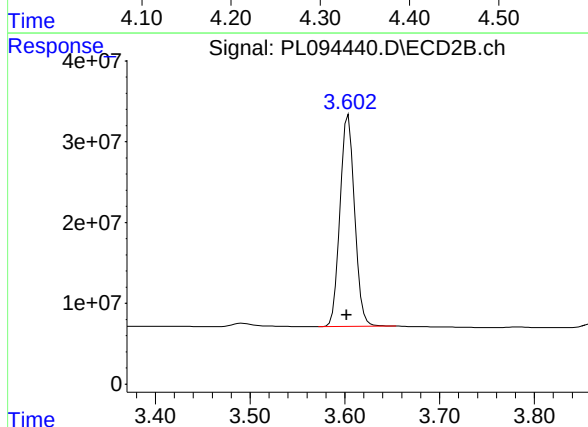
ECD_L

ClientSampleId :

P001-CLAY-CF01-01MSD

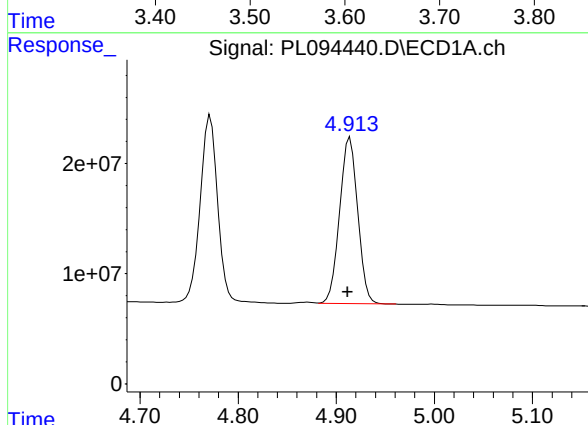
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



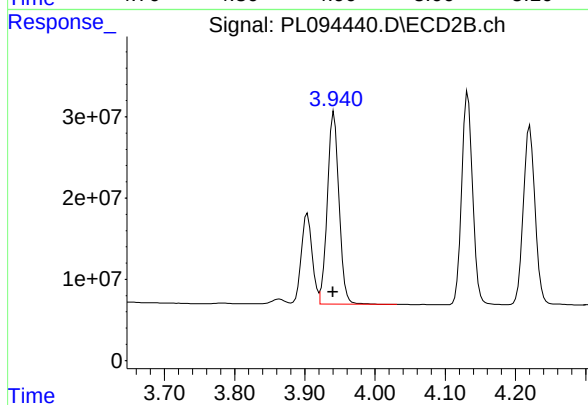
#3 gamma-BHC (Lindane)

R.T.: 3.604 min
Delta R.T.: 0.002 min
Response: 279038511
Conc: 59.24 ng/ml



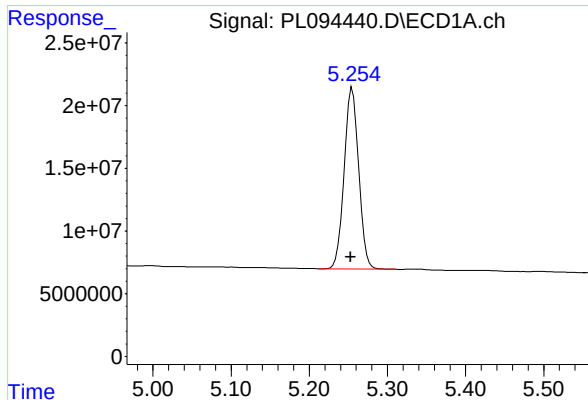
#4 Heptachlor

R.T.: 4.914 min
Delta R.T.: 0.002 min
Response: 193525593
Conc: 57.08 ng/ml



#4 Heptachlor

R.T.: 3.942 min
Delta R.T.: 0.002 min
Response: 271978032
Conc: 57.62 ng/ml



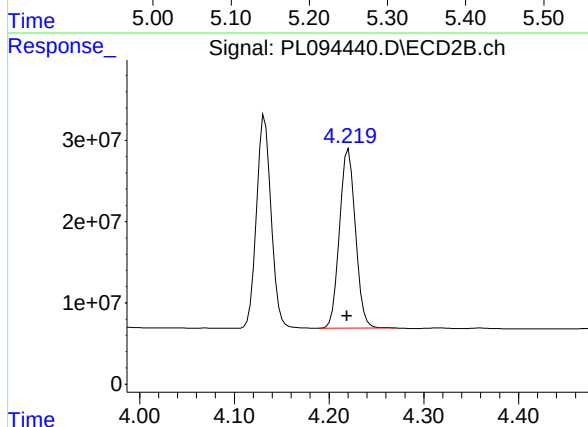
#5 Aldrin

R.T.: 5.255 min
Delta R.T.: 0.002 min
Response: 186859597
Conc: 54.45 ng/ml

Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF01-01MSD

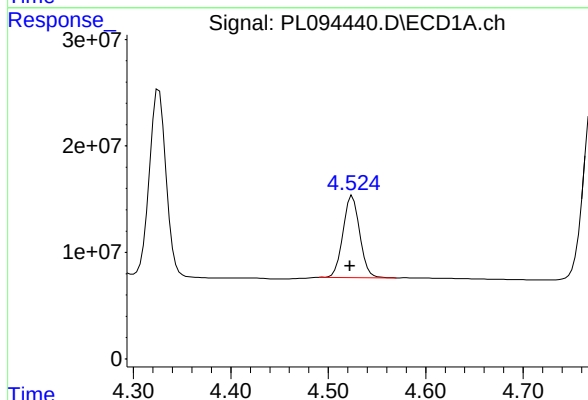
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



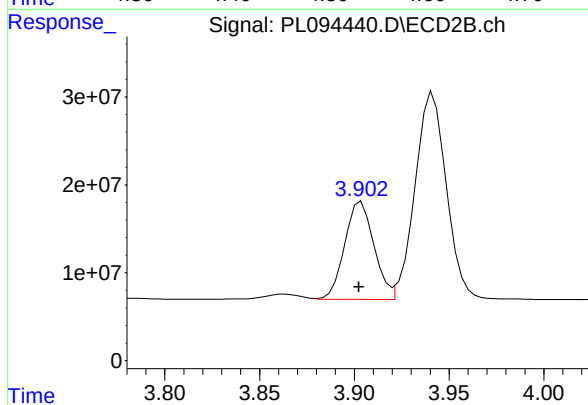
#5 Aldrin

R.T.: 4.221 min
Delta R.T.: 0.002 min
Response: 256367064
Conc: 55.49 ng/ml



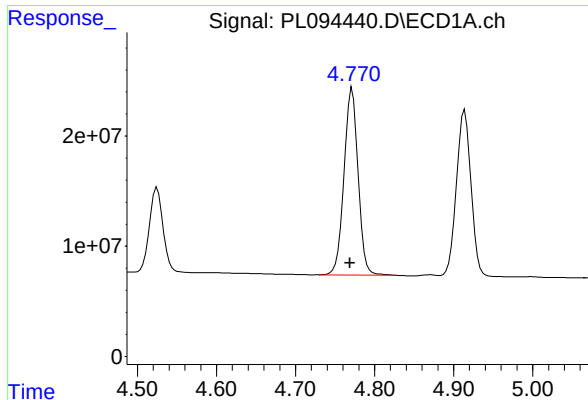
#6 beta-BHC

R.T.: 4.525 min
Delta R.T.: 0.002 min
Response: 91457518
Conc: 57.27 ng/ml



#6 beta-BHC

R.T.: 3.904 min
Delta R.T.: 0.001 min
Response: 119672404
Conc: 60.17 ng/ml



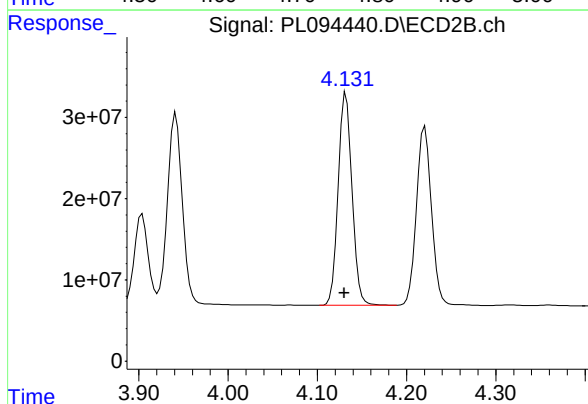
#7 delta-BHC

R.T.: 4.770 min
Delta R.T.: 0.001 min
Response: 210022289
Conc: 59.36 ng/ml

Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF01-01MSD

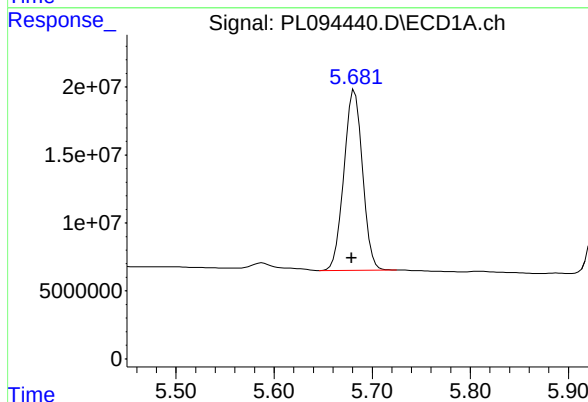
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



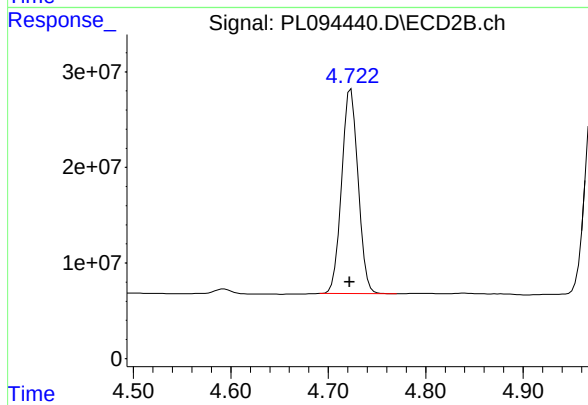
#7 delta-BHC

R.T.: 4.132 min
Delta R.T.: 0.002 min
Response: 282413453
Conc: 59.63 ng/ml



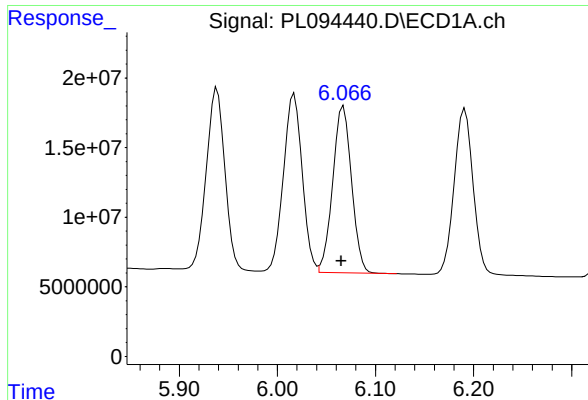
#8 Heptachlor epoxide

R.T.: 5.682 min
Delta R.T.: 0.003 min
Response: 174866044
Conc: 58.03 ng/ml



#8 Heptachlor epoxide

R.T.: 4.723 min
Delta R.T.: 0.001 min
Response: 250913388
Conc: 58.96 ng/ml



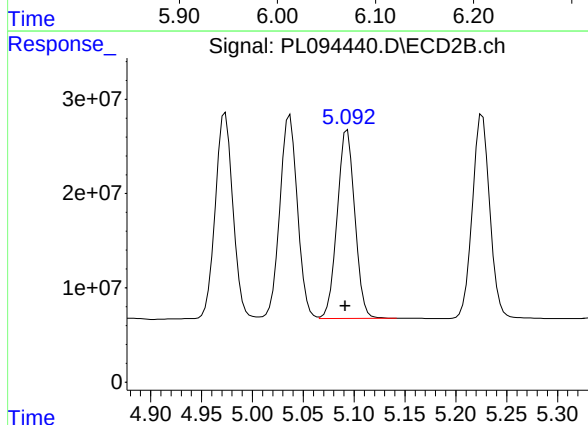
#9 Endosulfan I

R.T.: 6.067 min
Delta R.T.: 0.002 min
Response: 159115377
Conc: 57.89 ng/ml

Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF01-01MSD

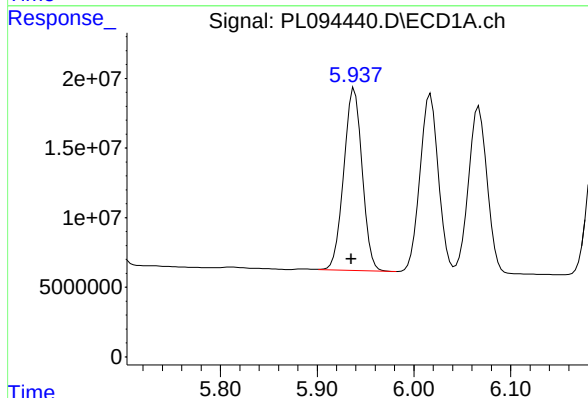
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



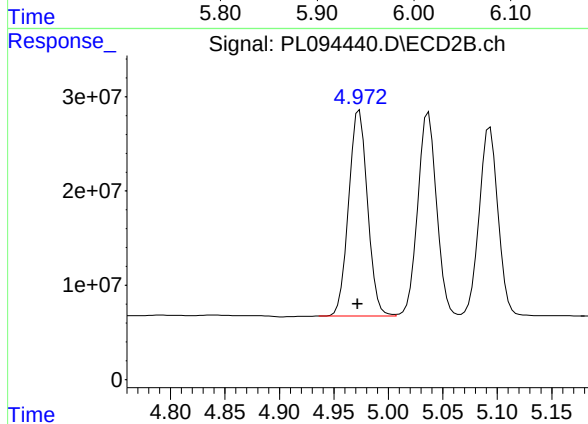
#9 Endosulfan I

R.T.: 5.093 min
Delta R.T.: 0.002 min
Response: 241295862
Conc: 60.53 ng/ml



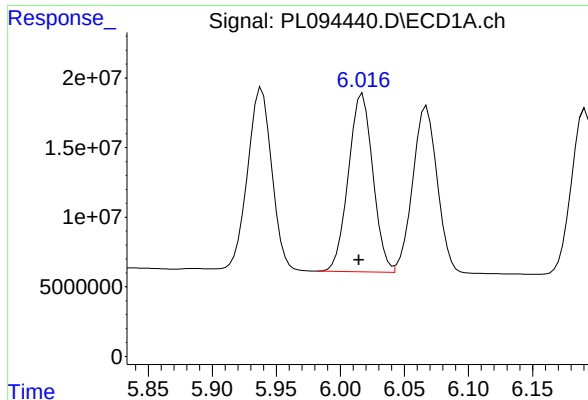
#10 gamma-Chlordane

R.T.: 5.939 min
Delta R.T.: 0.003 min
Response: 172121154
Conc: 58.62 ng/ml



#10 gamma-Chlordane

R.T.: 4.973 min
Delta R.T.: 0.001 min
Response: 263459096
Conc: 60.72 ng/ml



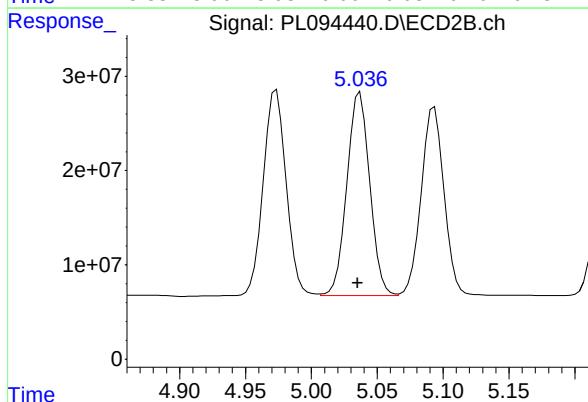
#11 alpha-Chlordane

R.T.: 6.017 min
Delta R.T.: 0.003 min
Response: 169943086
Conc: 58.66 ng/ml

Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF01-01MSD

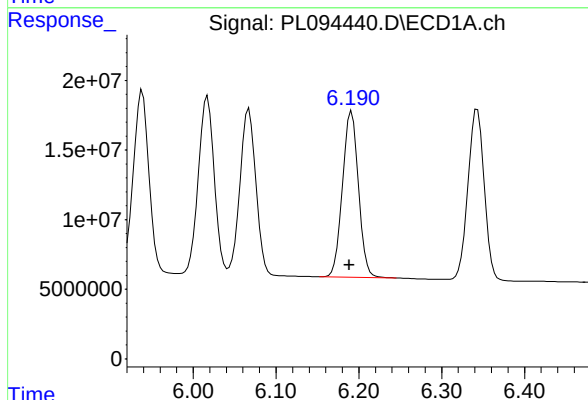
Manual Integrations
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Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



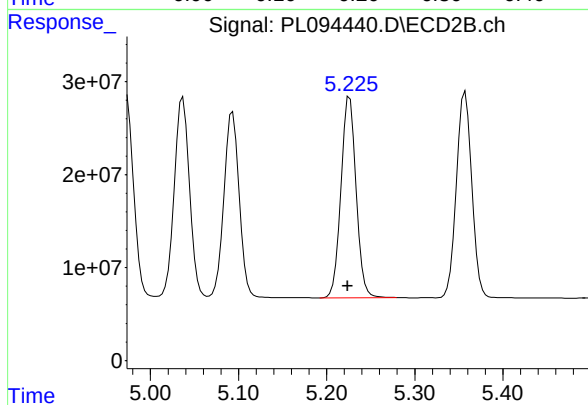
#11 alpha-Chlordane

R.T.: 5.037 min
Delta R.T.: 0.002 min
Response: 260278376
Conc: 60.28 ng/ml



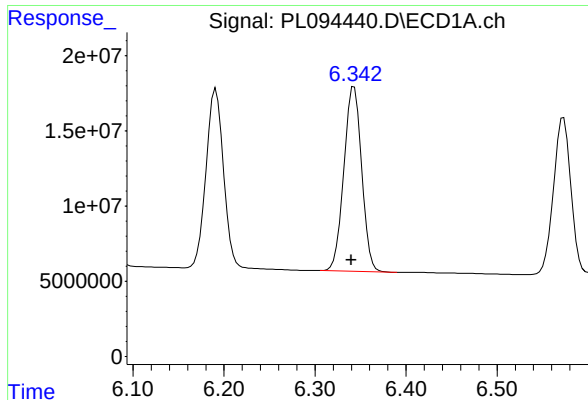
#12 4,4'-DDE

R.T.: 6.191 min
Delta R.T.: 0.003 min
Response: 159681602
Conc: 61.14 ng/ml



#12 4,4'-DDE

R.T.: 5.226 min
Delta R.T.: 0.002 min
Response: 258120094
Conc: 61.46 ng/ml



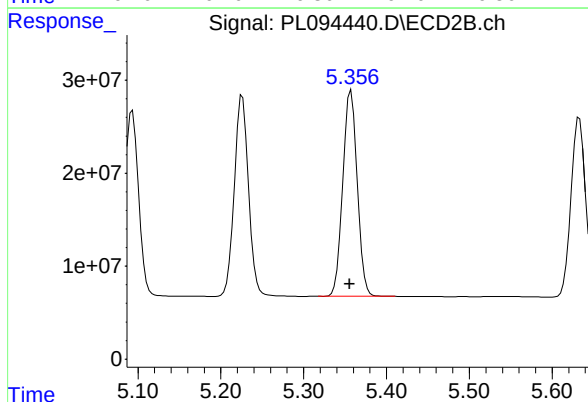
#13 Dieldrin

R.T.: 6.343 min
Delta R.T.: 0.003 min
Response: 167411911
Conc: 58.76 ng/ml

Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF01-01MSD

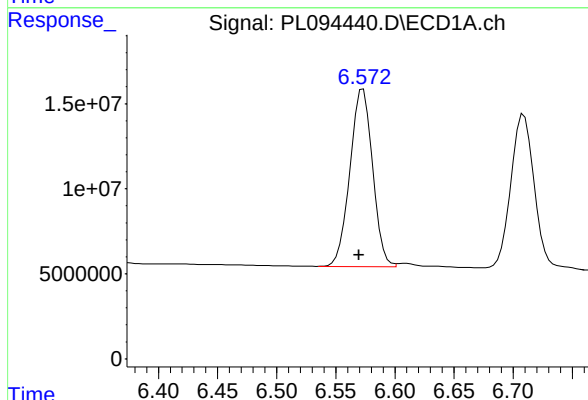
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



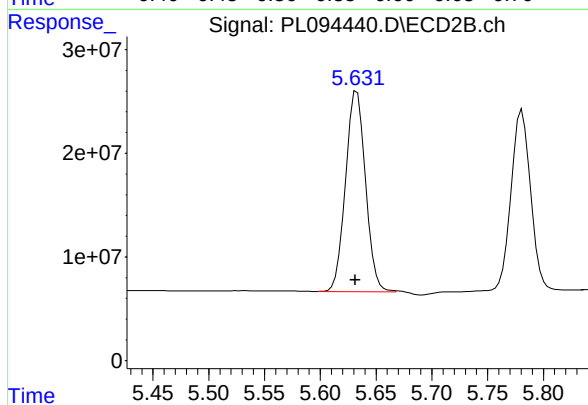
#13 Dieldrin

R.T.: 5.357 min
Delta R.T.: 0.002 min
Response: 268651045
Conc: 61.31 ng/ml



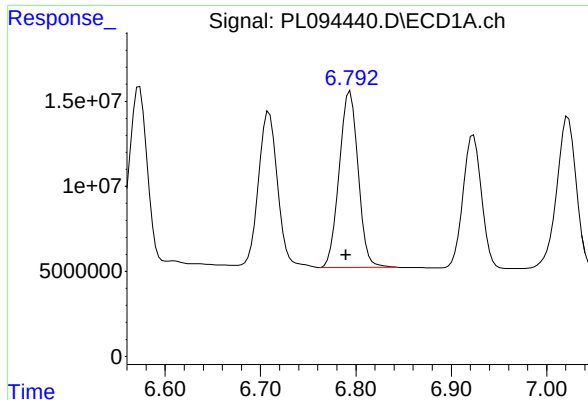
#14 Endrin

R.T.: 6.572 min
Delta R.T.: 0.002 min
Response: 139785316
Conc: 54.77 ng/ml m



#14 Endrin

R.T.: 5.631 min
Delta R.T.: 0.000 min
Response: 241346341
Conc: 70.89 ng/ml m



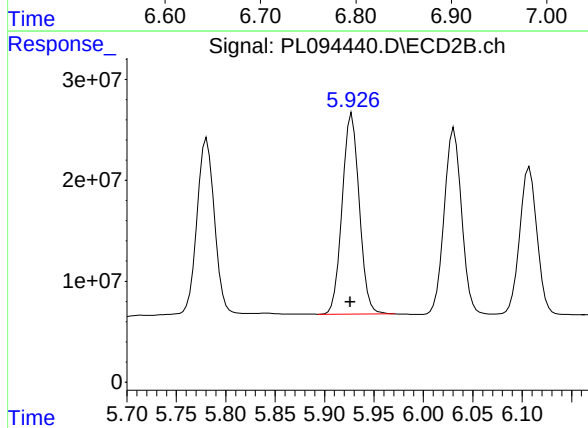
#15 Endosulfan II

R.T.: 6.794 min
Delta R.T.: 0.004 min
Response: 142561192
Conc: 56.63 ng/ml

Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF01-01MSD

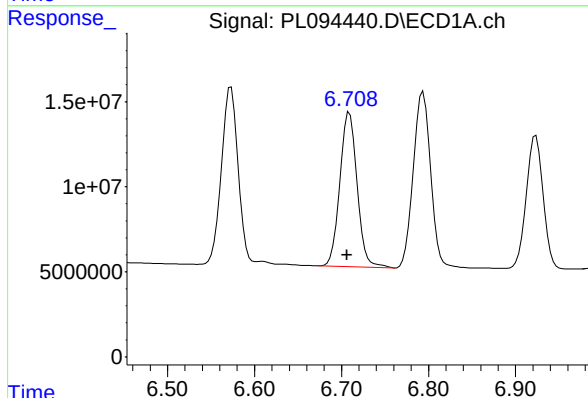
Manual Integrations
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Reviewed By :Abdul Mirza 03/02/2025
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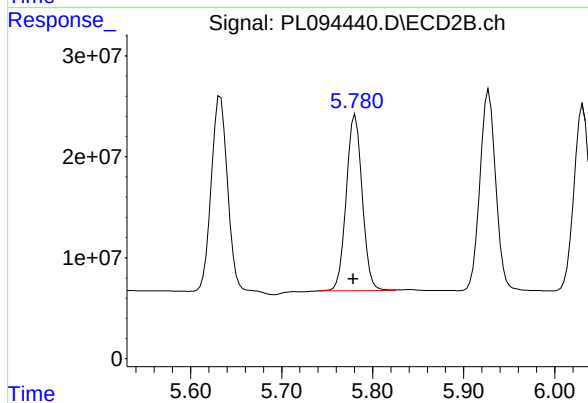
#15 Endosulfan II

R.T.: 5.928 min
Delta R.T.: 0.002 min
Response: 239062389
Conc: 63.93 ng/ml



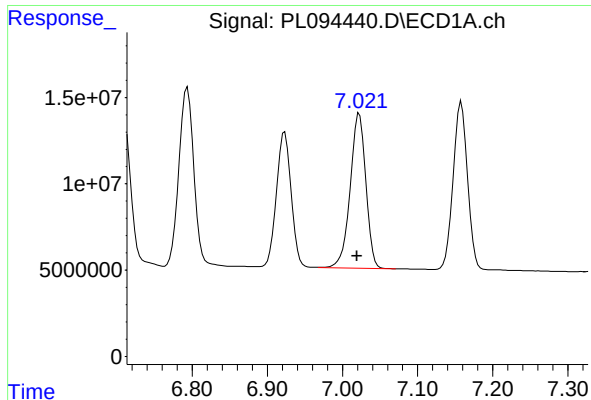
#16 4,4'-DDD

R.T.: 6.709 min
Delta R.T.: 0.003 min
Response: 125608214
Conc: 67.91 ng/ml



#16 4,4'-DDD

R.T.: 5.781 min
Delta R.T.: 0.002 min
Response: 213857562
Conc: 67.14 ng/ml



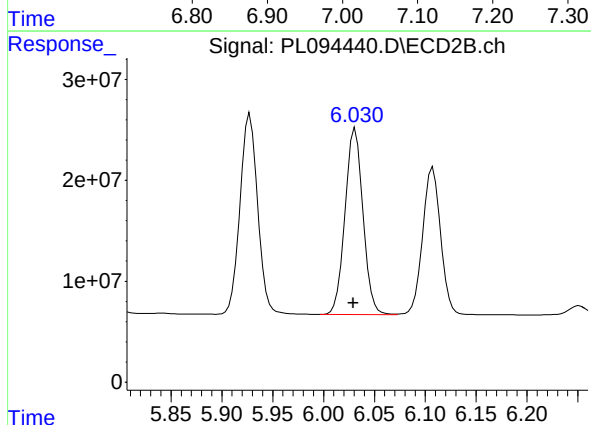
#17 4,4'-DDT

R.T.: 7.023 min
Delta R.T.: 0.004 min
Response: 129867320
Conc: 61.84 ng/ml

Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF01-01MSD

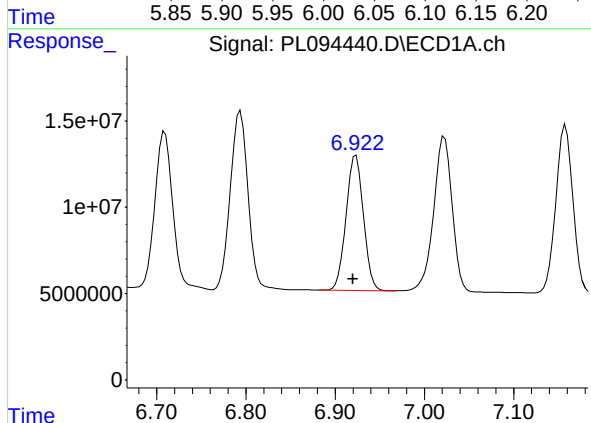
Manual Integrations
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Reviewed By :Abdul Mirza 03/02/2025
Supervised By :Ankita Jodhani 03/04/2025



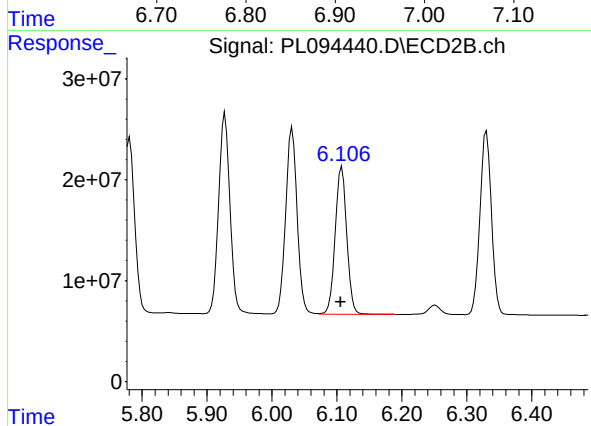
#17 4,4'-DDT

R.T.: 6.031 min
Delta R.T.: 0.002 min
Response: 226422395
Conc: 63.66 ng/ml



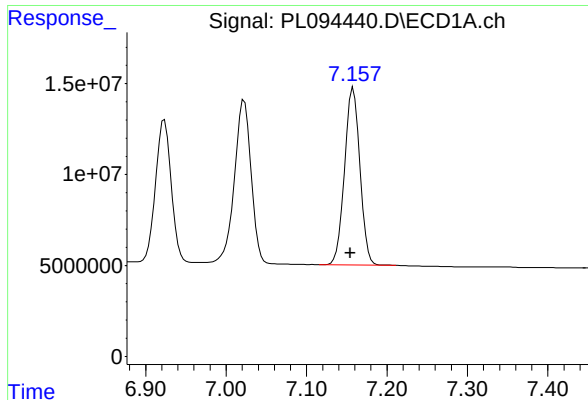
#18 Endrin aldehyde

R.T.: 6.923 min
Delta R.T.: 0.003 min
Response: 106158026
Conc: 54.53 ng/ml



#18 Endrin aldehyde

R.T.: 6.108 min
Delta R.T.: 0.002 min
Response: 179659908
Conc: 56.85 ng/ml



#19 Endosulfan Sulfate

R.T.: 7.158 min
Delta R.T.: 0.004 min
Response: 129175776
Conc: 57.06 ng/ml

Instrument :

ECD_L

ClientSampleId :

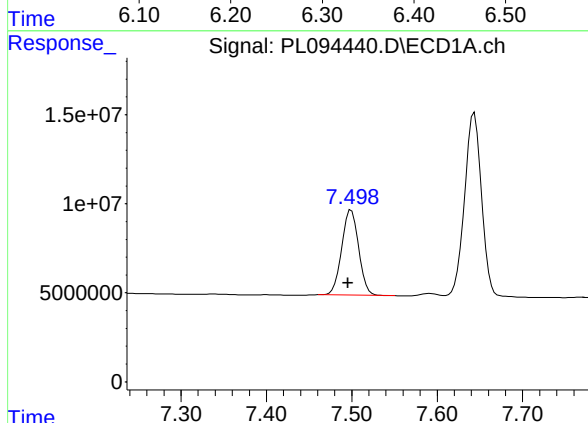
P001-CLAY-CF01-01MSD

Manual Integrations
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Supervised By :Ankita Jodhani 03/04/2025

#19 Endosulfan Sulfate

R.T.: 6.330 min
Delta R.T.: 0.002 min
Response: 224551941
Conc: 60.79 ng/ml

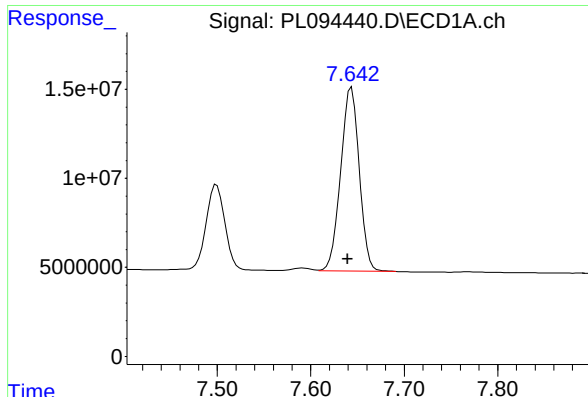


#20 Methoxychlor

R.T.: 7.499 min
Delta R.T.: 0.004 min
Response: 65807571
Conc: 59.23 ng/ml

#20 Methoxychlor

R.T.: 6.606 min
Delta R.T.: 0.001 min
Response: 117825489
Conc: 60.39 ng/ml



#21 Endrin ketone

R.T.: 7.644 min
Delta R.T.: 0.004 min
Response: 142311128
Conc: 56.77 ng/ml

Instrument :

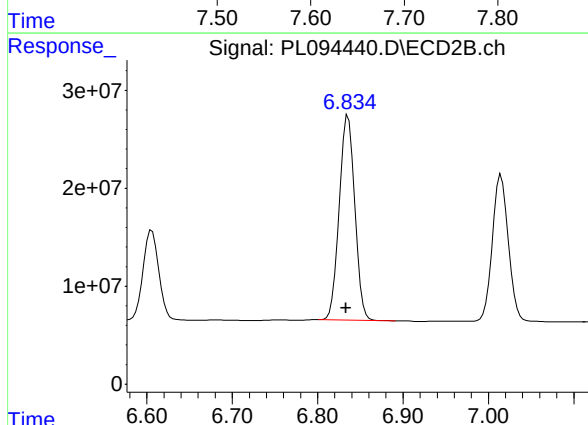
ECD_L

ClientSampleId :

P001-CLAY-CF01-01MSD

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#21 Endrin ketone

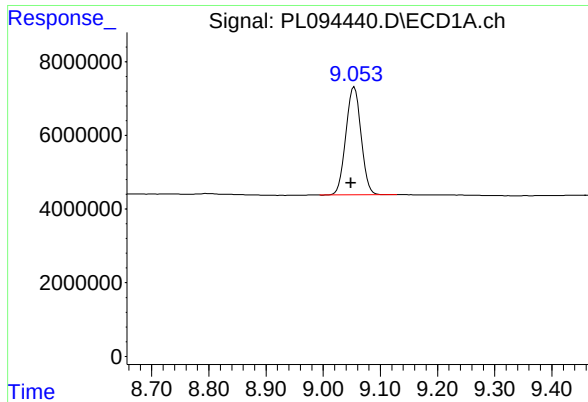
R.T.: 6.836 min
Delta R.T.: 0.002 min
Response: 263094587
Conc: 61.65 ng/ml

#22 Mirex

R.T.: 8.116 min
Delta R.T.: 0.004 min
Response: 104700110
Conc: 50.74 ng/ml

#22 Mirex

R.T.: 7.015 min
Delta R.T.: 0.002 min
Response: 194582578
Conc: 55.80 ng/ml



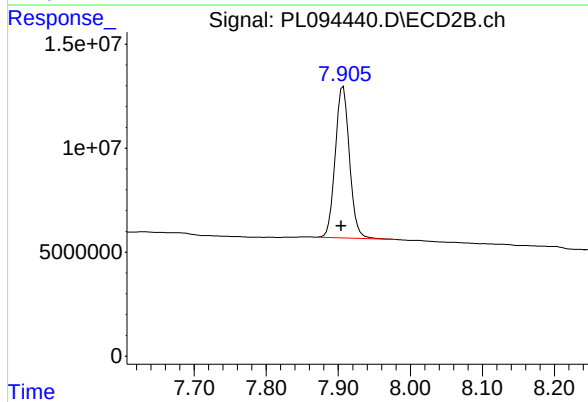
#28 Decachlorobiphenyl

R.T.: 9.054 min
Delta R.T.: 0.005 min
Response: 54643699
Conc: 25.69 ng/ml

Instrument :
ECD_L
ClientSampleId :
P001-CLAY-CF01-01MSD

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Supervised By :Ankita Jodhani 03/04/2025



#28 Decachlorobiphenyl

R.T.: 7.907 min
Delta R.T.: 0.002 min
Response: 99131682
Conc: 25.78 ng/ml

Manual Integration Report

Sequence:	pl022125	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL094324.D	4,4"-DDD	Abdul	2/22/2025 8:32:57 PM	Ankita	2/24/2025 9:37:17	Peak Integrated by Software
PEM	PL094324.D	4,4"-DDE	Abdul	2/22/2025 8:32:57 PM	Ankita	2/24/2025 9:37:17	Peak Integrated by Software
PEM	PL094324.D	4,4"-DDE #2	Abdul	2/22/2025 8:32:57 PM	Ankita	2/24/2025 9:37:17	Peak Integrated by Software
PEM	PL094324.D	Endrin ketone	Abdul	2/22/2025 8:32:57 PM	Ankita	2/24/2025 9:37:17	Peak Integrated by Software
RESCHK	PL094325.D	Decachlorobiphenyl	Abdul	2/22/2025 8:33:00 PM	Ankita	2/24/2025 9:37:18	Peak Integrated by Software
RESCHK	PL094325.D	gamma-Chlordane	Abdul	2/22/2025 8:33:00 PM	Ankita	2/24/2025 9:37:18	Peak Integrated by Software
PSTDICC005	PL094330.D	Endrin #2	Abdul	2/22/2025 8:33:04 PM	Ankita	2/24/2025 9:37:20	Peak Integrated by Software
PSTDICC005	PL094330.D	Endrin ketone	Abdul	2/22/2025 8:33:04 PM	Ankita	2/24/2025 9:37:20	Peak Integrated by Software
PCHLORICV500	PL094342.D	Chlordane-1 #2	Abdul	2/22/2025 8:33:08 PM	Ankita	2/24/2025 9:37:21	Peak Integrated by Software
PCHLORICV500	PL094342.D	Chlordane-2	Abdul	2/22/2025 8:33:08 PM	Ankita	2/24/2025 9:37:21	Peak Integrated by Software
PCHLORICV500	PL094342.D	Chlordane-3 #2	Abdul	2/22/2025 8:33:08 PM	Ankita	2/24/2025 9:37:21	Peak Integrated by Software
PCHLORICV500	PL094342.D	Chlordane-5	Abdul	2/22/2025 8:33:08 PM	Ankita	2/24/2025 9:37:21	Peak Integrated by Software
PEM	PL094345.D	4,4"-DDE	Abdul	2/22/2025 8:33:12 PM	Ankita	2/24/2025 9:37:23	Peak Integrated by Software

Manual Integration Report

Sequence:

pl022125

Instrument

ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL094345.D	4,4"-DDE #2	Abdul	2/22/2025 8:33:12 PM	Ankita	2/24/2025 9:37:23	Peak Integrated by Software
PEM	PL094345.D	Endrin	Abdul	2/22/2025 8:33:12 PM	Ankita	2/24/2025 9:37:23	Peak Integrated by Software
I.BLK	PL094359.D	Tetrachloro-m-xylene #2	Abdul	2/24/2025 8:32:05 AM	Ankita	2/24/2025 9:37:57	Peak Integrated by Software
PSTDCCC050	PL094369.D	4,4"-DDE #2	Abdul	2/22/2025 8:34:27 PM	Ankita	2/24/2025 9:38:22	Peak Integrated by Software
PSTDCCC050	PL094369.D	Endrin	Abdul	2/22/2025 8:34:27 PM	Ankita	2/24/2025 9:38:22	Peak Integrated by Software

Manual Integration Report

Sequence:	pl022725	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL094417.D	Decachlorobiphenyl #2	Abdul	3/2/2025 5:26:25 AM	sohil	3/3/2025 2:29:36	Peak Integrated by Software
PEM	PL094417.D	Endrin	Abdul	3/2/2025 5:26:25 AM	sohil	3/3/2025 2:29:36	Peak Integrated by Software
PSTDCCC050	PL094418.D	delta-BHC	Abdul	3/2/2025 5:26:29 AM	sohil	3/3/2025 2:29:40	Peak Integrated by Software
PEM	PL094433.D	4,4"-DDD	Abdul	3/2/2025 5:27:29 AM	Ankita	3/4/2025 12:52:06	Peak Integrated by Software
PEM	PL094433.D	Endrin	Abdul	3/2/2025 5:27:29 AM	Ankita	3/4/2025 12:52:06	Peak Integrated by Software
PB166896BS	PL094436.D	4,4"-DDD	Abdul	3/2/2025 5:27:33 AM	Ankita	3/4/2025 12:52:07	Peak Integrated by Software
PB166896BS	PL094436.D	delta-BHC	Abdul	3/2/2025 5:27:33 AM	Ankita	3/4/2025 12:52:07	Peak Integrated by Software
PB166896BS	PL094436.D	Endrin	Abdul	3/2/2025 5:27:33 AM	Ankita	3/4/2025 12:52:07	Peak Integrated by Software
PB166896BS	PL094436.D	Endrin #2	Abdul	3/2/2025 5:27:33 AM	Ankita	3/4/2025 12:52:07	Peak Integrated by Software
Q1421-04	PL094438.D	Tetrachloro-m-xylene #2	Abdul	3/2/2025 5:27:38 AM	Ankita	3/4/2025 12:52:09	Peak Integrated by Software
Q1421-05MS	PL094439.D	delta-BHC	Abdul	3/2/2025 5:27:42 AM	Ankita	3/4/2025 12:52:11	Peak Integrated by Software
Q1421-05MS	PL094439.D	Endrin	Abdul	3/2/2025 5:27:42 AM	Ankita	3/4/2025 12:52:11	Peak Integrated by Software
Q1421-05MS	PL094439.D	Endrin #2	Abdul	3/2/2025 5:27:42 AM	Ankita	3/4/2025 12:52:11	Peak Integrated by Software

Manual Integration Report

Sequence:

pl022725

Instrument

ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1421-05MS	PL094439.D	gamma-BHC (Lindane)	Abdul	3/2/2025 5:27:42 AM	Ankita	3/4/2025 12:52:11	Peak Integrated by Software
Q1421-06MSD	PL094440.D	delta-BHC	Abdul	3/2/2025 5:27:46 AM	Ankita	3/4/2025 12:52:12	Peak Integrated by Software
Q1421-06MSD	PL094440.D	Endrin	Abdul	3/2/2025 5:27:46 AM	Ankita	3/4/2025 12:52:12	Peak Integrated by Software
Q1421-06MSD	PL094440.D	Endrin #2	Abdul	3/2/2025 5:27:46 AM	Ankita	3/4/2025 12:52:12	Peak Integrated by Software
Q1421-06MSD	PL094440.D	gamma-BHC (Lindane)	Abdul	3/2/2025 5:27:46 AM	Ankita	3/4/2025 12:52:12	Peak Integrated by Software
Q1421-10	PL094442.D	Tetrachloro-m-xylene	Abdul	3/2/2025 5:27:50 AM	Ankita	3/4/2025 12:52:14	Peak Integrated by Software
Q1421-10	PL094442.D	Tetrachloro-m-xylene #2	Abdul	3/2/2025 5:27:50 AM	Ankita	3/4/2025 12:52:14	Peak Integrated by Software
PSTDCCC050	PL094444.D	Endrin	Abdul	3/2/2025 5:27:54 AM	Ankita	3/4/2025 12:52:15	Peak Integrated by Software

Manual Integration Report

Sequence:	PL022825	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL094447.D	4,4"-DDE	Abdul	3/3/2025 10:52:46 AM	mohammad	3/7/2025 1:23:49	Peak Integrated by Software
PEM	PL094447.D	4,4"-DDE #2	Abdul	3/3/2025 10:52:46 AM	mohammad	3/7/2025 1:23:49	Peak Integrated by Software
PEM	PL094447.D	Endrin	Abdul	3/3/2025 10:52:46 AM	mohammad	3/7/2025 1:23:49	Peak Integrated by Software
PEM	PL094447.D	Endrin ketone #2	Abdul	3/3/2025 10:52:46 AM	mohammad	3/7/2025 1:23:49	Peak Integrated by Software
PSTDCCC050	PL094448.D	4,4"-DDD	Abdul	3/3/2025 10:52:50 AM	mohammad	3/7/2025 1:23:51	Peak Integrated by Software
PSTDCCC050	PL094448.D	4,4"-DDE #2	Abdul	3/3/2025 10:52:50 AM	mohammad	3/7/2025 1:23:51	Peak Integrated by Software
PSTDCCC050	PL094448.D	Endrin	Abdul	3/3/2025 10:52:50 AM	mohammad	3/7/2025 1:23:51	Peak Integrated by Software
PSTDCCC050	PL094448.D	Endrin #2	Abdul	3/3/2025 10:52:50 AM	mohammad	3/7/2025 1:23:51	Peak Integrated by Software
PSTDCCC050	PL094451.D	4,4"-DDE #2	Abdul	3/3/2025 10:52:57 AM	mohammad	3/7/2025 1:23:57	Peak Integrated by Software
PSTDCCC050	PL094451.D	Endosulfan II #2	Abdul	3/3/2025 10:52:57 AM	mohammad	3/7/2025 1:23:57	Peak Integrated by Software
PSTDCCC050	PL094451.D	Endrin	Abdul	3/3/2025 10:52:57 AM	mohammad	3/7/2025 1:23:57	Peak Integrated by Software
PSTDCCC050	PL094460.D	4,4"-DDE #2	Abdul	3/3/2025 10:53:22 AM	mohammad	3/7/2025 1:24:16	Peak Integrated by Software
PSTDCCC050	PL094460.D	Endosulfan II #2	Abdul	3/3/2025 10:53:22 AM	mohammad	3/7/2025 1:24:16	Peak Integrated by Software

Manual Integration Report

Sequence:	PL022825	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PSTDCCC050	PL094460.D	Endrin	Abdul	3/3/2025 10:53:22 AM	mohammad	3/7/2025 1:24:16	Peak Integrated by Software
PSTDCCC050	PL094460.D	Endrin #2	Abdul	3/3/2025 10:53:22 AM	mohammad	3/7/2025 1:24:16	Peak Integrated by Software
PSTDCCC050	PL094463.D	4,4"-DDE #2	Abdul	3/3/2025 10:53:26 AM	mohammad	3/7/2025 1:24:20	Peak Integrated by Software
PSTDCCC050	PL094463.D	Endosulfan II #2	Abdul	3/3/2025 10:53:26 AM	mohammad	3/7/2025 1:24:20	Peak Integrated by Software
PSTDCCC050	PL094463.D	Endrin	Abdul	3/3/2025 10:53:26 AM	mohammad	3/7/2025 1:24:20	Peak Integrated by Software

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL022125

Review By	Abdul	Review On	2/22/2025 8:36:26 PM
Supervise By	Ankita	Supervise On	2/24/2025 9:38:38 AM
SubDirectory	PL022125	HP Acquire Method	HP Processing Method pl022125 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP23793,PP24095		
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683		
CCC	PP23686,PP23690,PP23695		
Internal Standard/PEM			
ICV/I.BLK	PP23687,PP23693,PP23698		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PL094322.D	21 Feb 2025 10:01	AR\AJ	Ok
2	I.BLK	PL094323.D	21 Feb 2025 10:15	AR\AJ	Ok
3	PEM	PL094324.D	21 Feb 2025 10:29	AR\AJ	Ok,M
4	RESCHK	PL094325.D	21 Feb 2025 10:42	AR\AJ	Ok,M
5	PSTDICC100	PL094326.D	21 Feb 2025 10:56	AR\AJ	Ok
6	PSTDICC075	PL094327.D	21 Feb 2025 11:10	AR\AJ	Ok
7	PSTDICC050	PL094328.D	21 Feb 2025 11:23	AR\AJ	Ok
8	PSTDICC025	PL094329.D	21 Feb 2025 11:37	AR\AJ	Ok
9	PSTDICC005	PL094330.D	21 Feb 2025 11:51	AR\AJ	Ok,M
10	PCHLORICC1000	PL094331.D	21 Feb 2025 12:04	AR\AJ	Ok
11	PCHLORICC750	PL094332.D	21 Feb 2025 12:18	AR\AJ	Ok
12	PCHLORICC500	PL094333.D	21 Feb 2025 12:32	AR\AJ	Ok
13	PCHLORICC250	PL094334.D	21 Feb 2025 12:45	AR\AJ	Ok
14	PCHLORICC050	PL094335.D	21 Feb 2025 12:59	AR\AJ	Ok
15	PTOXICC1000	PL094336.D	21 Feb 2025 13:13	AR\AJ	Ok
16	PTOXICC750	PL094337.D	21 Feb 2025 13:26	AR\AJ	Ok
17	PTOXICC500	PL094338.D	21 Feb 2025 13:40	AR\AJ	Ok
18	PTOXICC250	PL094339.D	21 Feb 2025 13:54	AR\AJ	Ok
19	PTOXICC100	PL094340.D	21 Feb 2025 14:07	AR\AJ	Ok
20	PSTDICV050	PL094341.D	21 Feb 2025 14:21	AR\AJ	Ok
21	PCHLORICV500	PL094342.D	21 Feb 2025 14:35	AR\AJ	Ok,M

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL022125

Review By	Abdul	Review On	2/22/2025 8:36:26 PM
Supervise By	Ankita	Supervise On	2/24/2025 9:38:38 AM
SubDirectory	PL022125	HP Acquire Method	HP Processing Method pl022125 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP23793,PP24095		
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683		
CCC	PP23686,PP23690,PP23695		
Internal Standard/PEM			
ICV/I.BLK	PP23687,PP23693,PP23698		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	PTOXICV500	PL094343.D	21 Feb 2025 15:02	AR\AJ	Ok
23	I.BLK	PL094344.D	21 Feb 2025 15:29	AR\AJ	Ok
24	PEM	PL094345.D	21 Feb 2025 15:43	AR\AJ	Ok,M
25	PSTDCCC050	PL094346.D	21 Feb 2025 15:57	AR\AJ	Ok
26	PB166822BL	PL094347.D	21 Feb 2025 16:10	AR\AJ	Ok
27	PB166822BS	PL094348.D	21 Feb 2025 16:24	AR\AJ	Not Ok
28	Q1395-01	PL094349.D	21 Feb 2025 16:38	AR\AJ	Ok,M
29	Q1397-01	PL094350.D	21 Feb 2025 16:52	AR\AJ	Ok,M
30	Q1397-03	PL094351.D	21 Feb 2025 17:05	AR\AJ	Ok,M
31	Q1397-05	PL094352.D	21 Feb 2025 17:19	AR\AJ	Ok,M
32	Q1397-05MS	PL094353.D	21 Feb 2025 17:33	AR\AJ	Ok,M
33	Q1397-05MSD	PL094354.D	21 Feb 2025 17:47	AR\AJ	Ok,M
34	Q1398-01	PL094355.D	21 Feb 2025 18:00	AR\AJ	Ok,M
35	Q1398-03	PL094356.D	21 Feb 2025 18:14	AR\AJ	Ok,M
36	Q1399-01	PL094357.D	21 Feb 2025 18:28	AR\AJ	Ok,M
37	Q1400-01	PL094358.D	21 Feb 2025 18:42	AR\AJ	Ok,M
38	I.BLK	PL094359.D	21 Feb 2025 18:55	AR\AJ	Ok,M
39	PSTDCCC050	PL094360.D	21 Feb 2025 19:09	AR\AJ	Ok
40	Q1393-05	PL094361.D	21 Feb 2025 19:36	AR\AJ	Ok,M
41	PB166798BL	PL094362.D	21 Feb 2025 19:50	AR\AJ	Ok
42	PB166798BS	PL094363.D	21 Feb 2025 20:04	AR\AJ	Ok,M
43	Q1388-01	PL094364.D	21 Feb 2025 20:18	AR\AJ	Ok,M
44	Q1393-01	PL094365.D	21 Feb 2025 20:31	AR\AJ	Ok,M

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL022125

Review By	Abdul	Review On	2/22/2025 8:36:26 PM
Supervise By	Ankita	Supervise On	2/24/2025 9:38:38 AM
SubDirectory	PL022125	HP Acquire Method	HP Processing Method pl022125 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP23793,PP24095		
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683		
CCC	PP23686,PP23690,PP23695		
Internal Standard/PEM			
ICV/I.BLK	PP23687,PP23693,PP23698		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

45	Q1393-01MS	PL094366.D	21 Feb 2025 20:45	AR\AJ	Ok,M
46	Q1393-01MSD	PL094367.D	21 Feb 2025 20:59	AR\AJ	Ok,M
47	I.BLK	PL094368.D	21 Feb 2025 21:13	AR\AJ	Ok
48	PSTDCCC050	PL094369.D	21 Feb 2025 21:26	AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL022725

Review By	Abdul	Review On	3/2/2025 5:28:19 AM
Supervise By	Ankita	Supervise On	3/4/2025 12:52:21 PM
SubDirectory	PL022725	HP Acquire Method	HP Processing Method pl022125 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP23793,PP24095		
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683		
CCC	PP23686,PP23690,PP23695		
Internal Standard/PEM			
ICV/I.BLK	PP23687,PP23693,PP23698		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PL094415.D	27 Feb 2025 08:23	AR\AJ	Ok
2	I.BLK	PL094416.D	27 Feb 2025 08:37	AR\AJ	Ok
3	PEM	PL094417.D	27 Feb 2025 09:25	AR\AJ	Ok,M
4	PSTDCCC050	PL094418.D	27 Feb 2025 10:18	AR\AJ	Ok,M
5	PP24208	PL094419.D	27 Feb 2025 10:41	AR\AJ	Ok,M
6	PB166839BL	PL094420.D	27 Feb 2025 16:15	AR\AJ	Ok
7	PB166839BS	PL094421.D	27 Feb 2025 16:29	AR\AJ	Ok,M
8	Q1440-01	PL094422.D	27 Feb 2025 17:03	AR\AJ	Ok,M
9	Q1441-01	PL094423.D	27 Feb 2025 17:17	AR\AJ	Ok,M
10	Q1442-03	PL094424.D	27 Feb 2025 17:30	AR\AJ	Dilution
11	Q1442-03MS	PL094425.D	27 Feb 2025 17:44	AR\AJ	Ok,M
12	Q1442-03MSD	PL094426.D	27 Feb 2025 17:58	AR\AJ	Ok,M
13	PB166910BL	PL094427.D	27 Feb 2025 18:11	AR\AJ	Not Ok
14	PB166910BS	PL094428.D	27 Feb 2025 18:25	AR\AJ	Ok,M
15	PB166910BSD	PL094429.D	27 Feb 2025 18:38	AR\AJ	Ok,M
16	Q1435-01	PL094430.D	27 Feb 2025 18:52	AR\AJ	Ok,M
17	Q1439-02	PL094431.D	27 Feb 2025 19:05	AR\AJ	Ok,M
18	I.BLK	PL094432.D	27 Feb 2025 19:19	AR\AJ	Ok
19	PEM	PL094433.D	27 Feb 2025 19:33	AR\AJ	Ok,M
20	PSTDCCC050	PL094434.D	27 Feb 2025 19:46	AR\AJ	Ok
21	PB166896BL	PL094435.D	27 Feb 2025 20:27	AR\AJ	Ok

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL022725

Review By	Abdul	Review On	3/2/2025 5:28:19 AM
Supervise By	Ankita	Supervise On	3/4/2025 12:52:21 PM
SubDirectory	PL022725	HP Acquire Method	HP Processing Method pl022125 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP23793,PP24095		
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683		
CCC	PP23686,PP23690,PP23695		
Internal Standard/PEM			
ICV/I.BLK	PP23687,PP23693,PP23698		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	PB166896BS	PL094436.D	27 Feb 2025 20:41	AR\AJ	Ok,M
23	PB166896TB	PL094437.D	27 Feb 2025 20:54	AR\AJ	Ok
24	Q1421-04	PL094438.D	27 Feb 2025 21:08	AR\AJ	Ok,M
25	Q1421-05MS	PL094439.D	27 Feb 2025 21:21	AR\AJ	Ok,M
26	Q1421-06MSD	PL094440.D	27 Feb 2025 21:35	AR\AJ	Ok,M
27	Q1421-08	PL094441.D	27 Feb 2025 21:48	AR\AJ	ReRun
28	Q1421-10	PL094442.D	27 Feb 2025 22:02	AR\AJ	Ok,M
29	I.BLK	PL094443.D	27 Feb 2025 22:16	AR\AJ	Ok
30	PSTDCCC050	PL094444.D	27 Feb 2025 22:29	AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL022825

Review By	Abdul	Review On	3/3/2025 10:53:53 AM
Supervise By	mohammad	Supervise On	3/7/2025 1:24:34 AM
SubDirectory	PL022825	HP Acquire Method	HP Processing Method pl022125 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP23793,PP24095		
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683		
CCC	PP23686,PP23690,PP23695		
Internal Standard/PEM			
ICV/I.BLK	PP23687,PP23693,PP23698		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	Sampleld	Data File Name	Date-Time	Operator	Status
1	HEXANE	PL094445.D	28 Feb 2025 10:06	AR\AJ	Ok
2	I.BLK	PL094446.D	28 Feb 2025 10:20	AR\AJ	Ok
3	PEM	PL094447.D	28 Feb 2025 10:34	AR\AJ	Ok,M
4	PSTDCCC050	PL094448.D	28 Feb 2025 10:48	AR\AJ	Ok,M
5	Q1442-03DL	PL094449.D	28 Feb 2025 11:06	AR\AJ	Ok,M
6	I.BLK	PL094450.D	28 Feb 2025 11:20	AR\AJ	Ok
7	PSTDCCC050	PL094451.D	28 Feb 2025 11:33	AR\AJ	Ok,M
8	PB166910BL	PL094452.D	28 Feb 2025 11:57	AR\AJ	Ok
9	PB166932BL	PL094453.D	28 Feb 2025 12:58	AR\AJ	Ok
10	PB166932BS	PL094454.D	28 Feb 2025 13:11	AR\AJ	Ok,M
11	Q1457-01	PL094455.D	28 Feb 2025 13:25	AR\AJ	Ok,M
12	Q1458-01	PL094456.D	28 Feb 2025 13:38	AR\AJ	Ok,M
13	Q1458-01MS	PL094457.D	28 Feb 2025 13:52	AR\AJ	Ok,M
14	Q1458-01MSD	PL094458.D	28 Feb 2025 14:06	AR\AJ	Ok,M
15	I.BLK	PL094459.D	28 Feb 2025 14:19	AR\AJ	Ok
16	PSTDCCC050	PL094460.D	28 Feb 2025 14:33	AR\AJ	Ok,M
17	Q1421-08RE	PL094461.D	28 Feb 2025 14:47	AR\AJ	Confirms
18	I.BLK	PL094462.D	28 Feb 2025 15:01	AR\AJ	Ok
19	PSTDCCC050	PL094463.D	28 Feb 2025 15:14	AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL022125

Review By	Abdul	Review On	2/22/2025 8:36:26 PM
Supervise By	Ankita	Supervise On	2/24/2025 9:38:38 AM
SubDirectory	PL022125	HP Acquire Method	HP Processing Method p022125 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP24095
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PL094322.D	21 Feb 2025 10:01		AR\AJ	Ok
2	I.BLK	I.BLK	PL094323.D	21 Feb 2025 10:15		AR\AJ	Ok
3	PEM	PEM	PL094324.D	21 Feb 2025 10:29		AR\AJ	Ok,M
4	RESCHK	RESCHK	PL094325.D	21 Feb 2025 10:42		AR\AJ	Ok,M
5	PSTDICC100	PSTDICC100	PL094326.D	21 Feb 2025 10:56		AR\AJ	Ok
6	PSTDICC075	PSTDICC075	PL094327.D	21 Feb 2025 11:10		AR\AJ	Ok
7	PSTDICC050	PSTDICC050	PL094328.D	21 Feb 2025 11:23		AR\AJ	Ok
8	PSTDICC025	PSTDICC025	PL094329.D	21 Feb 2025 11:37		AR\AJ	Ok
9	PSTDICC005	PSTDICC005	PL094330.D	21 Feb 2025 11:51		AR\AJ	Ok,M
10	PCHLORICC1000	PCHLORICC1000	PL094331.D	21 Feb 2025 12:04		AR\AJ	Ok
11	PCHLORICC750	PCHLORICC750	PL094332.D	21 Feb 2025 12:18		AR\AJ	Ok
12	PCHLORICC500	PCHLORICC500	PL094333.D	21 Feb 2025 12:32		AR\AJ	Ok
13	PCHLORICC250	PCHLORICC250	PL094334.D	21 Feb 2025 12:45		AR\AJ	Ok
14	PCHLORICC050	PCHLORICC050	PL094335.D	21 Feb 2025 12:59		AR\AJ	Ok
15	PTOXICC1000	PTOXICC1000	PL094336.D	21 Feb 2025 13:13		AR\AJ	Ok
16	PTOXICC750	PTOXICC750	PL094337.D	21 Feb 2025 13:26		AR\AJ	Ok
17	PTOXICC500	PTOXICC500	PL094338.D	21 Feb 2025 13:40		AR\AJ	Ok
18	PTOXICC250	PTOXICC250	PL094339.D	21 Feb 2025 13:54		AR\AJ	Ok

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL022125

Review By	Abdul	Review On	2/22/2025 8:36:26 PM
Supervise By	Ankita	Supervise On	2/24/2025 9:38:38 AM
SubDirectory	PL022125	HP Acquire Method	HP Processing Method
			pl022125 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP23793,PP24095		
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683		
CCC	PP23686,PP23690,PP23695		
Internal Standard/PEM			
ICV/I.BLK	PP23687,PP23693,PP23698		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	PTOXICC100	PTOXICC100	PL094340.D	21 Feb 2025 14:07		AR\AJ	Ok
20	PSTDICV050	ICVPL022125	PL094341.D	21 Feb 2025 14:21		AR\AJ	Ok
21	PCHLORICV500	ICVPL022125CHLOR	PL094342.D	21 Feb 2025 14:35		AR\AJ	Ok,M
22	PTOXICV500	ICVPL022125TOX	PL094343.D	21 Feb 2025 15:02		AR\AJ	Ok
23	I.BLK	I.BLK	PL094344.D	21 Feb 2025 15:29	TCMX high in 1st column	AR\AJ	Ok
24	PEM	PEM	PL094345.D	21 Feb 2025 15:43		AR\AJ	Ok,M
25	PSTDCCC050	PSTDCCC050	PL094346.D	21 Feb 2025 15:57		AR\AJ	Ok
26	PB166822BL	PB166822BL	PL094347.D	21 Feb 2025 16:10		AR\AJ	Ok
27	PB166822BS	PB166822BS	PL094348.D	21 Feb 2025 16:24	Comp#2,3,7 recovery fail	AR\AJ	Not Ok
28	Q1395-01	BEL-25-0005	PL094349.D	21 Feb 2025 16:38		AR\AJ	Ok,M
29	Q1397-01	STOCK-PILE	PL094350.D	21 Feb 2025 16:52		AR\AJ	Ok,M
30	Q1397-03	TP7	PL094351.D	21 Feb 2025 17:05		AR\AJ	Ok,M
31	Q1397-05	TP8	PL094352.D	21 Feb 2025 17:19		AR\AJ	Ok,M
32	Q1397-05MS	TP8MS	PL094353.D	21 Feb 2025 17:33		AR\AJ	Ok,M
33	Q1397-05MSD	TP8MSD	PL094354.D	21 Feb 2025 17:47		AR\AJ	Ok,M
34	Q1398-01	BUS-DISCONNECT	PL094355.D	21 Feb 2025 18:00		AR\AJ	Ok,M
35	Q1398-03	HANDHOLD	PL094356.D	21 Feb 2025 18:14		AR\AJ	Ok,M
36	Q1399-01	SU-04-02202025	PL094357.D	21 Feb 2025 18:28		AR\AJ	Ok,M
37	Q1400-01	EO-02-02202025	PL094358.D	21 Feb 2025 18:42		AR\AJ	Ok,M

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL022125

Review By	Abdul	Review On	2/22/2025 8:36:26 PM
Supervise By	Ankita	Supervise On	2/24/2025 9:38:38 AM
SubDirectory	PL022125	HP Acquire Method	HP Processing Method pl022125 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP23793,PP24095		
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683		
CCC	PP23686,PP23690,PP23695		
Internal Standard/PEM			
ICV/I.BLK	PP23687,PP23693,PP23698		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

38	I.BLK	I.BLK	PL094359.D	21 Feb 2025 18:55	TCMX high in both column	AR\AJ	Ok,M
39	PSTDCCC050	PSTDCCC050	PL094360.D	21 Feb 2025 19:09		AR\AJ	Ok
40	Q1393-05	PURGE-WATER-COMP	PL094361.D	21 Feb 2025 19:36	TCMX low in 1st column	AR\AJ	Ok,M
41	PB166798BL	PB166798BL	PL094362.D	21 Feb 2025 19:50		AR\AJ	Ok
42	PB166798BS	PB166798BS	PL094363.D	21 Feb 2025 20:04		AR\AJ	Ok,M
43	Q1388-01	72-12016	PL094364.D	21 Feb 2025 20:18		AR\AJ	Ok,M
44	Q1393-01	SOIL-COMP	PL094365.D	21 Feb 2025 20:31		AR\AJ	Ok,M
45	Q1393-01MS	SOIL-COMPMS	PL094366.D	21 Feb 2025 20:45	Comp#17 recovery fail	AR\AJ	Ok,M
46	Q1393-01MSD	SOIL-COMPMSD	PL094367.D	21 Feb 2025 20:59	Comp#17 recovery fail	AR\AJ	Ok,M
47	I.BLK	I.BLK	PL094368.D	21 Feb 2025 21:13	TCMX high in 2nd column	AR\AJ	Ok
48	PSTDCCC050	PSTDCCC050	PL094369.D	21 Feb 2025 21:26		AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL022725

Review By	Abdul	Review On	3/2/2025 5:28:19 AM
Supervise By	Ankita	Supervise On	3/4/2025 12:52:21 PM
SubDirectory	PL022725	HP Acquire Method	HP Processing Method p022125 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP24095
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PL094415.D	27 Feb 2025 08:23		AR\AJ	Ok
2	I.BLK	I.BLK	PL094416.D	27 Feb 2025 08:37		AR\AJ	Ok
3	PEM	PEM	PL094417.D	27 Feb 2025 09:25		AR\AJ	Ok,M
4	PSTDCCC050	PSTDCCC050	PL094418.D	27 Feb 2025 10:18		AR\AJ	Ok,M
5	PP24208	PP24208	PL094419.D	27 Feb 2025 10:41		AR\AJ	Ok,M
6	PB166839BL	PB166839BL	PL094420.D	27 Feb 2025 16:15		AR\AJ	Ok
7	PB166839BS	PB166839BS	PL094421.D	27 Feb 2025 16:29		AR\AJ	Ok,M
8	Q1440-01	OR-02-022625	PL094422.D	27 Feb 2025 17:03		AR\AJ	Ok,M
9	Q1441-01	HD-02-022625	PL094423.D	27 Feb 2025 17:17		AR\AJ	Ok,M
10	Q1442-03	351	PL094424.D	27 Feb 2025 17:30	need dilution	AR\AJ	Dilution
11	Q1442-03MS	351MS	PL094425.D	27 Feb 2025 17:44	some compound recovery fail	AR\AJ	Ok,M
12	Q1442-03MSD	351MSD	PL094426.D	27 Feb 2025 17:58	some compound recovery fail	AR\AJ	Ok,M
13	PB166910BL	PB166910BL	PL094427.D	27 Feb 2025 18:11	TCMX high in 1st column	AR\AJ	Not Ok
14	PB166910BS	PB166910BS	PL094428.D	27 Feb 2025 18:25		AR\AJ	Ok,M
15	PB166910BSD	PB166910BSD	PL094429.D	27 Feb 2025 18:38		AR\AJ	Ok,M
16	Q1435-01	286107	PL094430.D	27 Feb 2025 18:52		AR\AJ	Ok,M
17	Q1439-02	LRSA-MOD	PL094431.D	27 Feb 2025 19:05		AR\AJ	Ok,M
18	I.BLK	I.BLK	PL094432.D	27 Feb 2025 19:19		AR\AJ	Ok

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL022725

Review By	Abdul	Review On	3/2/2025 5:28:19 AM
Supervise By	Ankita	Supervise On	3/4/2025 12:52:21 PM
SubDirectory	PL022725	HP Acquire Method	HP Processing Method pl022125 8081
STD. NAME	STD REF.#		
Tune/Reschk	PP23793,PP24095		
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683		
CCC	PP23686,PP23690,PP23695		
Internal Standard/PEM			
ICV/I.BLK	PP23687,PP23693,PP23698		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	PEM	PEM	PL094433.D	27 Feb 2025 19:33		AR\AJ	Ok,M
20	PSTDCCC050	PSTDCCC050	PL094434.D	27 Feb 2025 19:46		AR\AJ	Ok
21	PB166896BL	PB166896BL	PL094435.D	27 Feb 2025 20:27		AR\AJ	Ok
22	PB166896BS	PB166896BS	PL094436.D	27 Feb 2025 20:41		AR\AJ	Ok,M
23	PB166896TB	PB166896TB	PL094437.D	27 Feb 2025 20:54		AR\AJ	Ok
24	Q1421-04	P001-CLAY-CF01-01	PL094438.D	27 Feb 2025 21:08	TCMX high in 2nd column	AR\AJ	Ok,M
25	Q1421-05MS	P001-CLAY-CF01-01M	PL094439.D	27 Feb 2025 21:21	Comp#14 recovery fail	AR\AJ	Ok,M
26	Q1421-06MSD	P001-CLAY-CF01-01M	PL094440.D	27 Feb 2025 21:35	Comp#14 recovery fail	AR\AJ	Ok,M
27	Q1421-08	P001-CLAY-CF01-02	PL094441.D	27 Feb 2025 21:48	TCMX high in both column	AR\AJ	ReRun
28	Q1421-10	P001-CLAY-CF02-01	PL094442.D	27 Feb 2025 22:02		AR\AJ	Ok,M
29	I.BLK	I.BLK	PL094443.D	27 Feb 2025 22:16		AR\AJ	Ok
30	PSTDCCC050	PSTDCCC050	PL094444.D	27 Feb 2025 22:29		AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL022825

Review By	Abdul	Review On	3/3/2025 10:53:53 AM
Supervise By	mohammad	Supervise On	3/7/2025 1:24:34 AM
SubDirectory	PL022825	HP Acquire Method	HP Processing Method p022125 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP24095
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PL094445.D	28 Feb 2025 10:06		AR\AJ	Ok
2	I.BLK	I.BLK	PL094446.D	28 Feb 2025 10:20		AR\AJ	Ok
3	PEM	PEM	PL094447.D	28 Feb 2025 10:34		AR\AJ	Ok,M
4	PSTDCCC050	PSTDCCC050	PL094448.D	28 Feb 2025 10:48		AR\AJ	Ok,M
5	Q1442-03DL	351DL	PL094449.D	28 Feb 2025 11:06		AR\AJ	Ok,M
6	I.BLK	I.BLK	PL094450.D	28 Feb 2025 11:20		AR\AJ	Ok
7	PSTDCCC050	PSTDCCC050	PL094451.D	28 Feb 2025 11:33		AR\AJ	Ok,M
8	PB166910BL	PB166910BL	PL094452.D	28 Feb 2025 11:57		AR\AJ	Ok
9	PB166932BL	PB166932BL	PL094453.D	28 Feb 2025 12:58		AR\AJ	Ok
10	PB166932BS	PB166932BS	PL094454.D	28 Feb 2025 13:11		AR\AJ	Ok,M
11	Q1457-01	HR-0-02272025	PL094455.D	28 Feb 2025 13:25		AR\AJ	Ok,M
12	Q1458-01	SP-SOIL	PL094456.D	28 Feb 2025 13:38		AR\AJ	Ok,M
13	Q1458-01MS	SP-SOILMS	PL094457.D	28 Feb 2025 13:52		AR\AJ	Ok,M
14	Q1458-01MSD	SP-SOILMSD	PL094458.D	28 Feb 2025 14:06		AR\AJ	Ok,M
15	I.BLK	I.BLK	PL094459.D	28 Feb 2025 14:19		AR\AJ	Ok
16	PSTDCCC050	PSTDCCC050	PL094460.D	28 Feb 2025 14:33		AR\AJ	Ok,M
17	Q1421-08RE	P001-CLAY-CF01-02R	PL094461.D	28 Feb 2025 14:47	TCMX high in both column	AR\AJ	Confirms
18	I.BLK	I.BLK	PL094462.D	28 Feb 2025 15:01		AR\AJ	Ok

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QC Batch ID # PL022825

Review By	Abdul	Review On	3/3/2025 10:53:53 AM				
Supervise By	mohammad	Supervise On	3/7/2025 1:24:34 AM				
SubDirectory	PL022825	HP Acquire Method	HP Processing Method		pl022125 8081		
STD. NAME		STD REF.#					
Tune/Reschk		PP23793,PP24095					
Initial Calibration Stds		PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683					
CCC		PP23686,PP23690,PP23695					
Internal Standard/PEM							
ICV/I.BLK		PP23687,PP23693,PP23698					
Surrogate Standard							
MS/MSD Standard							
LCS Standard							

19	PSTDCCC050	PSTDCCC050	PL094463.D	28 Feb 2025 15:14		AR\AJ	Ok,M

M : Manual Integration

SOP ID :	M1312-SPLP-10	
SDG No :	N/A	Start Prep Date : 02/25/2025 Time : 14:00
Welgh By :	JP	End Prep Date : 02/26/2025 Time : 07:15
Balance ID :	WC SC-7	Combination Ratio : 20
pH Meter ID :	WC PH METER-1	ZHE Cleaning Batch : N/A
Extraction By :	JP	Initial Room Temperature: 23 °C
Filter By :	JP	Final Room Temperature: 22 °C
Pipette ID :	WC	TCLP Technician Signature : JP
Tumbler ID :	T-1 / T-2	Supervisor By : 12
TCLP Filter ID :	115525	

Standard Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
SPLP FLUID#1	N/A	WP110806
SPLP FLUID#3	N/A	W3112
HNO3-TCLP,1N	N/A	WP110804
pH Strips	W3172.	W1931,W1934,W3171,W3172
pH Strips	W1941,W1942	W3166,W1938,W1939,W1940,
1 Liter Amber	N/A	90424-08
120ml Plastic bottle	N/A	405130101
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Tumbler T-1 / T-2 CHECKED,30 RPM. Particle size reduction is not required.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
02/26/25 11:00	JP / TCLP Room	SPG. RM 'R' / Ex-1-
	Preparation Group	Analysis Group

1 det Dig
1 wet Chem.

SPLP EXTRACTION LOGPAGE

PB166861

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Po
PB166861TB	LEB861	04	N/A	2000	N/A	N/A	N/A	4.24	1.0	T-1
Q1421-04	P001-CLAY-CF01-01	01	100.02	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1421-05	Q1421-04MS	01	100.02	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1421-06	Q1421-04MSD	01	100.02	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1421-08	P001-CLAY-CF01-02	02	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q1421-10	P001-CLAY-CF02-01	03	100.04	2000	N/A	N/A	N/A	5.5	1.5	T-1

SPLP EXTRACTION LOGPAGE

For SPLP cyanide

PB166861

TP

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB166861TB	LEB861	14	N/A	2000	N/A	N/A	N/A	5.03	11.0	T-2
Q1421-04	P001-CLAY-CF01-01	11	100.04	2000	N/A	N/A	N/A	6.0	11.5	T-2
Q1421-05	Q1421-04MS	11	100.04	2000	N/A	N/A	N/A	6.0	11.5	T-2
Q1421-06	Q1421-04MSD	11	100.04	2000	N/A	N/A	N/A	6.0	11.5	T-2
Q1421-08	P001-CLAY-CF01-02	12	100.03	2000	N/A	N/A	N/A	6.2	12.0	T-2
Q1421-10	P001-CLAY-CF02-01	13	100.05	2000	N/A	N/A	N/A	6.0	11.5	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB166861TB	LEB861	N/A	N/A	N/A	N/A	N/A	N/A
Q1421-04	P001-CLAY-CF01-01	N/A	N/A	N/A	N/A	100	N/A
Q1421-05	Q1421-04MS	N/A	N/A	N/A	N/A	100	N/A
Q1421-06	Q1421-04MSD	N/A	N/A	N/A	N/A	100	N/A
Q1421-08	P001-CLAY-CF01-02	N/A	N/A	N/A	N/A	100	N/A
Q1421-10	P001-CLAY-CF02-01	N/A	N/A	N/A	N/A	100	N/A

Hot Block ID : WC S-1 /WC S-2
Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB166861TB	LEB861	N/A	N/A	N/A	N/A	#1	4.24
Q1421-04	P001-CLAY-CF01-01	N/A	N/A	N/A	N/A	#1	4.24
Q1421-05	Q1421-04MS	N/A	N/A	N/A	N/A	#1	4.24
Q1421-06	Q1421-04MSD	N/A	N/A	N/A	N/A	#1	4.24
Q1421-08	P001-CLAY-CF01-02	N/A	N/A	N/A	N/A	#1	4.24
Q1421-10	P001-CLAY-CF02-01	N/A	N/A	N/A	N/A	#1	4.24

WORKLIST(Hardcopy Internal Chain)

WorkList Name : splp q1421

WorkList ID : 187869

Department : TCLP Extraction

Date : 02-25-2025 10:58:37

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1421-04	P001-CLAY-CF01-01	Solid	SPLP Extraction	1:1 HNO3 to pH < 2	ROYF02	H31	02/24/2025	1312
Q1421-05	Q1421-04MS	Solid	SPLP Extraction	1:1 HNO3 to pH < 2	ROYF02	H31	02/24/2025	1312
Q1421-06	Q1421-04MSD	Solid	SPLP Extraction	1:1 HNO3 to pH < 2	ROYF02	H31	02/24/2025	1312
Q1421-08	P001-CLAY-CF01-02	Solid	SPLP Extraction	1:1 HNO3 to pH < 2	ROYF02	H31	02/24/2025	1312
Q1421-10	P001-CLAY-CF02-01	Solid	SPLP Extraction	1:1 HNO3 to pH < 2	ROYF02	H31	02/24/2025	1312

Date/Time 02/25/25 12:00

Raw Sample Received by: JH WWC

Raw Sample Relinquished by: JH CSM

Date/Time 02/25/25

Raw Sample Received by: JH CSM

Raw Sample Relinquished by: JH WWC

SOP ID: M3510C,3580A-Extraction Pesticide-16

Clean Up SOP #: Florisil

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 02/27/2025

Extraction Start Time : 09:10

Extraction End Date : 02/27/2025

Extraction End Time : 14:00

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	500 PPB	PP24091
Surrogate	1.0ML	200 PPB	PP24123
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
Methylene Chloride	N/A	E3878
Baked Na2SO4	N/A	EP2590
Hexane	N/A	E3877
Florisil	N/A	E3806
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
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:

40ML Vial Lot # 03-40BTS721.

KD Bath ID: WATER BATH-1,2

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

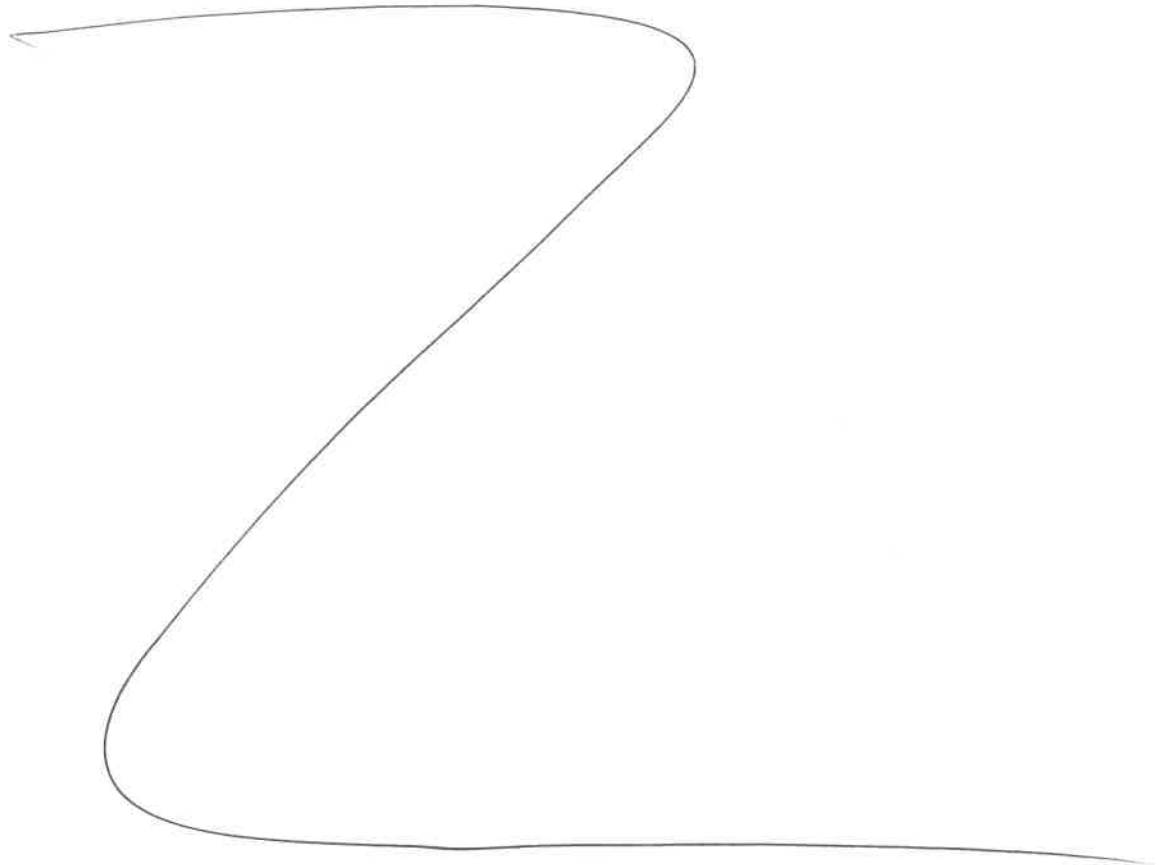
Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
2/27/25	RS (Ext Lab)	Y.P. P. P. P.
14:05	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction Pesticide-16

Concentration Date: 02/27/2025

Sample ID	Client Sample ID	Test	g / (mL)	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166896BL	PBLK896	SPLP Pesticide	1000	6	ritesh	RUPESH	10			SEP-9
PB166896BS	PLCS896	SPLP Pesticide	1000	6	ritesh	RUPESH	10			10
PB166896TB	PB166896TB	SPLP Pesticide	1000	6	ritesh	RUPESH	10			11
Q1421-04	P001-CLAY-CF01-01	SPLP Pesticide	1000	6	ritesh	RUPESH	10	A		12
Q1421-05	Q1421-04MS	SPLP Pesticide	1000	6	ritesh	RUPESH	10	A		13
Q1421-06	Q1421-04MSD	SPLP Pesticide	1000	6	ritesh	RUPESH	10	A		14
Q1421-08	P001-CLAY-CF01-02	SPLP Pesticide	1000	6	ritesh	RUPESH	10	A		15
Q1421-10	P001-CLAY-CF02-01	SPLP Pesticide	1000	6	ritesh	RUPESH	10	A		16



RS
2/27

* Extracts relinquished on the same date as received.

SPLP EXTRACTION LOGPAGE

PB166861

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Pre Pos
PB166861TB	LEB861	04	N/A	2000	N/A	N/A	N/A	4.24	1.0	T-1
Q1421-04	P001-CLAY-CF01-01	01	100.02	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1421-05	Q1421-04MS	01	100.02	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1421-06	Q1421-04MSD	01	100.02	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1421-08	P001-CLAY-CF01-02	02	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q1421-10	P001-CLAY-CF02-01	03	100.04	2000	N/A	N/A	N/A	5.5	1.5	T-1

02/26/23
11:00

Prep Standard - Chemical Standard Summary

Order ID : Q1421

Test : SPLP Pesticide

Prepbatch ID : PB166896,

Sequence ID/Qc Batch ID: pl022725,PL022825,

Standard ID :

EP2590,PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683,P
P23686,PP23687,PP23690,PP23693,PP23695,PP23698,PP23733,PP23793,PP24091,PP24095,PP24123,

Chemical ID :

E3551,E3792,E3805,E3806,E3843,E3846,E3847,E3877,E3878,P11146,P11896,P13036,P13039,P13245,P13349,P133
50,P13353,P13359,P13402,

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>
3923	Baked Sodium Sulfate	EP2590	02/26/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 02/26/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

<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>
84	Pest/PCB Surrogate Stock 20 PPM	PP23673	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani 10/01/2024

FROM 1.00000ml of P13349 + 9.00000ml of E3792 = Final Quantity: 10.000 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>
3629	20 PPM PEST stock Solution 1st source(RESTEK)	PP23674	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

FROM 1.00000ml of P13036 + 9.00000ml of E3792 = Final Quantity: 10.000 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>
1472	20 PPM Pest Stock Solution 2nd Source	PP23675	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

FROM 1.00000ml of P13039 + 9.00000ml of E3792 = Final Quantity: 10.000 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>
1273	20 PPM Mirex Stock (Primary Source)	PP23676	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
10/01/2024								

FROM 0.20000ml of P11146 + 9.80000ml of E3792 = Final Quantity: 10.000 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>
3663	20 PPM MIREX Stock STD (Secondary source)	PP23677	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
10/01/2024								

FROM 0.20000ml of P11146 + 9.80000ml of E3792 = Final Quantity: 10.000 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>
3630	100/100 PPB PEST Working std.1st Source(RESTEK)	PP23678	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

FROM 98.50000ml of E3792 + 0.50000ml of PP23673 + 0.50000ml of PP23674 + 0.50000ml of PP23676 = Final Quantity: 100.000 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>
80	100/100 PPB Pesticide Working Solution 2nd Source	PP23679	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

FROM 98.50000ml of E3792 + 0.50000ml of PP23673 + 0.50000ml of PP23675 + 0.50000ml of PP23677 = 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>
386	1000/100 PPB Chlordane STD (Restek)	PP23680	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

FROM 0.10000ml of P11896 + 99.40000ml of E3792 + 0.50000ml of PP23673 = Final Quantity: 100.000 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>
3746	1000/100 ppb Chlordane STD-RESTEK 2ND SOURCE	PP23681	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

FROM 0.10000ml of P11896 + 99.40000ml of E3792 + 0.50000ml of PP23673 = 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>
383	1000/100 PPB Toxaphene STD (Restek)	PP23682	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

FROM 0.10000ml of P13359 + 99.40000ml of E3792 + 0.50000ml of PP23673 = Final Quantity: 100.000 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>
3669	1000/100 PPB TOXAPHENE STD 2nd source (RESTEK)	PP23683	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

FROM 0.10000ml of P13402 + 99.40000ml of E3792 + 0.50000ml of PP23673 = 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>
3632	50 PPB ICAL PEST STD(RESTEK)	PP23686	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
10/01/2024								

FROM 0.50000ml of E3792 + 0.50000ml of PP23678 = 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>
3988	50 PPB PEST ICV STD(RESTEK)	PP23687	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
10/01/2024								

FROM 0.50000ml of E3792 + 0.50000ml of PP23679 = 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>
529	CHLOR 500 PPB STD	PP23690	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
10/01/2024								

FROM 0.50000ml of E3792 + 0.50000ml of PP23680 = 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>
532	CHLOR 500 PPB ICV STD	PP23693	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
10/01/2024								

FROM 0.50000ml of E3792 + 0.50000ml of PP23681 = 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>
534	TOX 500 PPB STD	PP23695	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
10/01/2024								

FROM 0.50000ml of E3792 + 0.50000ml of PP23682 = 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>
3670	TOX 500 PPB ICV std (RESTEK)	PP23698	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
10/01/2024								

FROM 0.50000ml of E3792 + 0.50000ml of PP23683 = 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>
84	Pest/PCB Surrogate Stock 20 PPM	PP23733	10/03/2024	03/30/2025	Ankita Jodhani	None	None	Yogesh Patel
								10/03/2024

FROM 1.00000ml of P13350 + 9.00000ml of E3805 = Final Quantity: 10.000 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>
518	Pest/PCB I.BLK 20 PPB	PP23793	10/03/2024	03/30/2025	Ankita Jodhani	None	None	Yogesh Patel
								10/03/2024

FROM 99.90000ml of E3805 + 0.10000ml of PP23733 = 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>
79	500 PPB Pesticide Spike Solution	PP24091	12/17/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani
12/18/2024								

FROM 95.00000ml of E3843 + 2.50000ml of PP23675 + 2.50000ml of PP23677 = Final Quantity: 100.000 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>
4027	Pesticide resolution Check Mixture 8081	PP24095	12/23/2024	06/16/2025	Abdul Mirza	None	None	Ankita Jodhani
12/30/2024								

FROM 1.00000ml of P13245 + 99.00000ml of E3847 = 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>
465	200 PPB Pest/PCB Surrogate Spike	PP24123	01/20/2025	06/26/2025	Abdul Mirza	None	None	Ankita Jodhani
FROM 1.00000ml of P13353 + 999.00000ml of E3846 = Final Quantity: 1000.000 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.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24C1862008	03/11/2025	09/12/2024 / Rajesh	09/11/2024 / Rajesh	E3792

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)	24C1862008	03/30/2025	09/30/2024 / Rajesh	09/25/2024 / Rajesh	E3805

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agela Technologies Inc.	FS0006 / Cleanert Florisil cartridge	M06518	03/25/2025	10/01/2024 / Rajesh	09/25/2024 / Rajesh	E3806

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	06/05/2025	12/05/2024 / Rajesh	12/05/2024 / Rajesh	E3843

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	06/26/2025	12/26/2024 / Rajesh	12/13/2024 / Rajesh	E3846

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24G1962003	06/16/2025	12/16/2024 / Rajesh	12/13/2024 / Rajesh	E3847

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)	243570	08/12/2025	02/12/2025 / Rajesh	02/12/2025 / Rajesh	E3877

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	08/14/2025	02/14/2025 / Rajesh	12/27/2024 / Rajesh	E3878

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	79136 / Mirex, 1000 ug/ml	102821	03/21/2025	09/21/2024 / Abdul	10/29/2021 / Abdul	P11146

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32021 / Chlordane Std.	A0181737	03/21/2025	09/21/2024 / Abdul	06/17/2022 / Abdul	P11896

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32291 / Pesticide Mix, CLP method, organochlorine Std AB#1, 200ug/mL, hexane/toluene, 1mL/ampul	A0200423	03/21/2025	09/21/2024 / Abdul	12/26/2023 / Abdul	P13036

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32291 / Pesticide Mix, CLP method, organochlorine Std AB#1, 200ug/mL, hexane/toluene, 1mL/ampul	A0199099	03/21/2025	09/21/2024 / Abdul	12/26/2023 / Abdul	P13039

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	19161 / 8081 pesticide resolution check mixture	013124	06/23/2025	12/23/2024 / Abdul	02/09/2024 / Abdul	P13245

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL	A0206810	03/21/2025	09/21/2024 / Abdul	04/22/2024 / Abdul	P13349

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL	A0206810	04/03/2025	10/03/2024 / Ankita	04/22/2024 / Abdul	P13350

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL	A0206810	07/20/2025	01/20/2025 / Abdul	04/22/2024 / Abdul	P13353

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32005 / Toxaphene Standard	A0203830	03/21/2025	09/21/2024 / Abdul	05/03/2024 / Abdul	P13359

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32005 / Toxaphene Standard	A0203038	03/21/2025	09/21/2024 / Abdul	05/15/2024 / Abdul	P13402

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**PRODUCTOS
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CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %
COMMENTS		
QC: PhC Irma Belmares		

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3

Hexanes (95% n-hexane)
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

Avantor™



Material No.: 9262-03
Batch No.: 24C1862008
Manufactured Date: 2024-01-30
Expiration Date: 2025-04-30
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 Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.4 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

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

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

Recd by RP on 09/11/24

E 3192

Jamie Croak
Director Quality Operations, Bioscience Production

Hexanes (95% n-hexane)
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



Material No.: 9262-03
Batch No.: 24C1862008
Manufactured Date: 2024-01-30
Expiration Date: 2025-04-30
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 Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.4 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

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

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

Recd. by RP on 9/25/24

E 3805

Jamie Croak
Director Quality Operations, Bioscience Production

Cleanert Florisil

1g/6ml 30/pkg

固相萃取产品

LOT#: M06518

MFG#: F04074



CAT# FS0006

Agela Technologies

Made in China

E 3806



Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis



Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date: 2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 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 %	<0.1 %
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

Recd. by RP on 12/5/24

E 3843

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.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date: 2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 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 %	<0.1 %
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 12/13/24

E 3846

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

Material No.: 9262-03
Batch No.: 24G1962003
Manufactured Date: 2024-05-23
Expiration Date: 2025-08-22
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

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

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

Recd. by RP on 12/13/24

E3847

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

Certificate of Analysis

1 Reagent Lane
 Fair Lawn, NJ 07410
 201.796.7100 tel
 201.796.1329 fax

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

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	H303	Quality Test / Release Date	11/07/2024
Lot Number	243570		
Description	HEXANES - OPTIMA		
Country of Origin	United States	Suggested Retest Date	Nov/2029
Chemical Origin	Organic - non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid
ASSAY (N-HEXANE)	%	>= 60	69
ASSAY (SUM C6 HYDROCARBONS)	%	>= 99.9	>99.9
COLOR	APHA	<= 5	<5
DENSITY AT 25 DEGREES C	GM/ML	Inclusive Between 0.653 - 0.673	0.669
EVAPORATION RESIDUE	ppm	<= 1	<1
FLUORESCENCE BACKGROUND	ppb	<= 1	<1
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
OPTICAL ABS AT 195 NM	ABS. UNITS	<= 1	0.74
OPTICAL ABS AT 210 NM	ABS. UNITS	<= 0.25	0.17
OPTICAL ABS AT 220 NM	ABS. UNITS	<= 0.07	0.05
OPTICAL ABS AT 254 NM	ABS. UNITS	<= 0.005	0.001
PESTICIDE RESIDUE ANALYSIS	NG/L	<= 10	<10
REFRACTIVE INDEX @ 25 DEG C		Inclusive Between 1.375 - 1.385	1.379
SUITABILITY FOR GC/MS		= PASS TEST	PASS TEST
SULFUR COMPOUNDS	%	<= 0.005	<0.005
THIOPHENE	PASS/FAIL	= PASS TEST	PASS TEST
WATER (H2O)	%	<= 0.01	<0.01
WATER-SOLUBLE TITRABLE ACID	MEQ/G	<= 0.0003	0.0001

Recd. by RP on 2/12/25

 E3877

Harout Sahagian - Quality Control Manager - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.

If there are any questions with this certificate, please call at (800) 227-6701.

*Based on suggested storage condition.

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date: 2026-01-07
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 Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.5 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	0.0
Chloride (Cl)	$\leq 10 \text{ ppm}$	$< 5 \text{ ppm}$
Water (by KF, coulometric)	$\leq 0.02\%$	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 3878

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



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.: 32021 Lot No.: A0181737
Description: Chlordane Standard
Chlordane Standard 1000µg/mL, Hexane, 1mL/ampul
Container Size: 2 mL Pkg Amt: > 1 mL
Expiration Date: May 31, 2028 Storage: 10°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Chlordane CAS # 57-74-9 (Lot 978545) Purity ----%	1,006.0 µg/mL	+/- 5.9753 µg/mL Gravimetric +/- 31.8975 µg/mL Unstressed +/- 41.6615 µg/mL Stressed

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

Tech Tips:

CAS #57-74-9 nomenclature is based on EPA method 8081B.

P 11892 } (5)
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P 11896
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06/17/2022

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

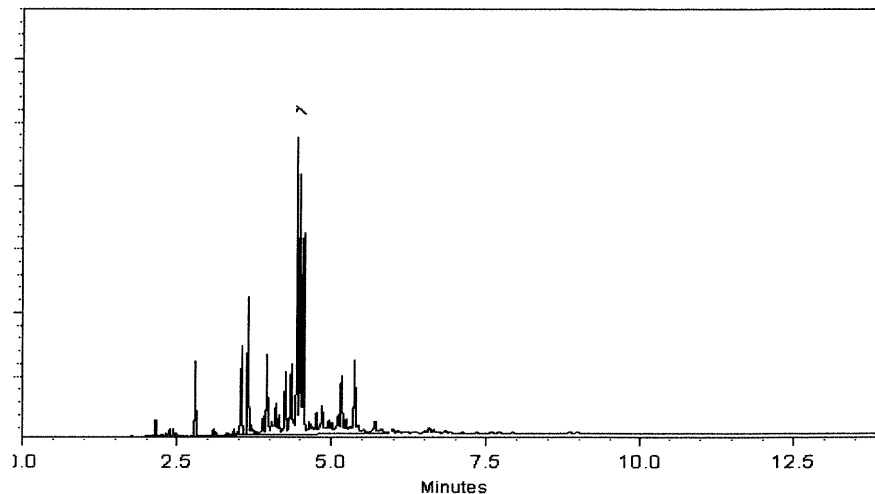
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

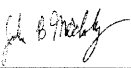
Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD

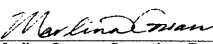


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Josh McCloskey - Operations Technician I

Date Mixed: 11-Feb-2022

Balance: B442140311


Marlina Cowan - Operations Tech I

Date Passed: 24-Feb-2022

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

P 11892
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P 11896 / (5)


06/17/2022



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Fax: 1-814-353-1309

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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. : 32291 Lot No.: A0199099

Description : Organochlorine Pesticide Mix AB #1

Organochlorine Pesticide Mix AB #1 200µg/mL, Hexane/Toluene(50:50), 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : June 30, 2027 Storage: 10°C or colder

Ship: Ambient

P130397 5
↓
P13043 1
✓
12-26-2023

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	alpha-BHC	319-84-6	14434500	99%	200.0 µg/mL	+/- 8.9732
2	gamma-BHC (Lindane)	58-89-9	14184400	98%	200.1 µg/mL	+/- 8.9762
3	beta-BHC	319-85-7	BCCC6425	99%	200.3 µg/mL	+/- 8.9844
4	delta-BHC	319-86-8	14450800	98%	200.0 µg/mL	+/- 8.9740
5	Heptachlor	76-44-8	813251	99%	200.1 µg/mL	+/- 8.9754
6	Aldrin	309-00-2	14389400	98%	200.0 µg/mL	+/- 8.9718
7	Heptachlor epoxide (isomer B)	1024-57-3	14448800	99%	200.1 µg/mL	+/- 8.9754
8	trans-Chlordane	5103-74-2	32943	98%	199.9 µg/mL	+/- 8.9696
9	cis-Chlordane	5103-71-9	31766	98%	200.1 µg/mL	+/- 8.9762
10	Endosulfan I	959-98-8	BCCF4060	99%	200.1 µg/mL	+/- 8.9754
11	4,4'-DDE	72-55-9	GHYQG	99%	200.1 µg/mL	+/- 8.9777
12	Dieldrin	60-57-1	11129900	98%	200.0 µg/mL	+/- 8.9718
13	Endrin	72-20-8	14123200	98%	199.9 µg/mL	+/- 8.9696
14	4,4'-DDD	72-54-8	HAN02	99%	200.1 µg/mL	+/- 8.9777
15	Endosulfan II	33213-65-9	14374700	99%	200.0 µg/mL	+/- 8.9732
16	4,4'-DDT	50-29-3	230410JLMA	98%	200.0 µg/mL	+/- 8.9718

17	Endrin aldehyde	7421-93-4	30720	98%	200.1	µg/mL	+/- 8.9784
18	Endosulfan sulfate	1031-07-8	BCCH9010	99%	200.0	µg/mL	+/- 8.9732
19	Methoxychlor	72-43-5	13668200	99%	200.1	µg/mL	+/- 8.9777
20	Endrin ketone	53494-70-5	1-ABS-16-7	98%	200.0	µg/mL	+/- 8.9740

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

Solvent: Hexane/Toluene (50:50)
CAS # 110-54-3/108-88-3
Purity 99%

P 13039
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 P13043
 1
 5
 12/26/23

Quality Confirmation Test

Column:
 30m x .25mm x .2µm
 Rtx-CLP II (cat.# 11323)

Carrier Gas:
 helium-constant pressure 20 psi.

Temp. Program:
 150°C to 300°C
 @ 4°C/min. (hold 5 min.)

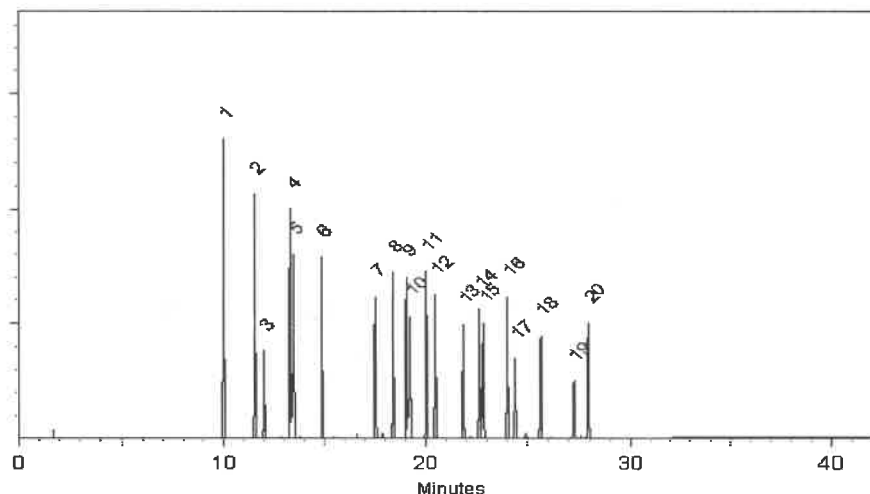
Inj. Temp:
 200°C

Det. Temp:
 300°C

Det. Type:
 ECD

Split Vent:
 Split ratio 50:1

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.

Josh McCloskey
 Josh McCloskey - Operations Technician I

Date Mixed: 19-Jun-2023

Balance Serial # 1128360905

Jennifer Pollino
 Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 23-Jun-2023

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



CERTIFIED WEIGHT REPORT

Part Number: **79136**
 Lot Number: **102821**
 Description: **Mirex**

Solvent(s): **Acetone**
 Lot# **81025**

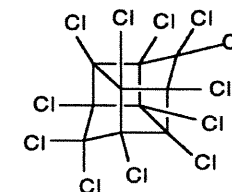
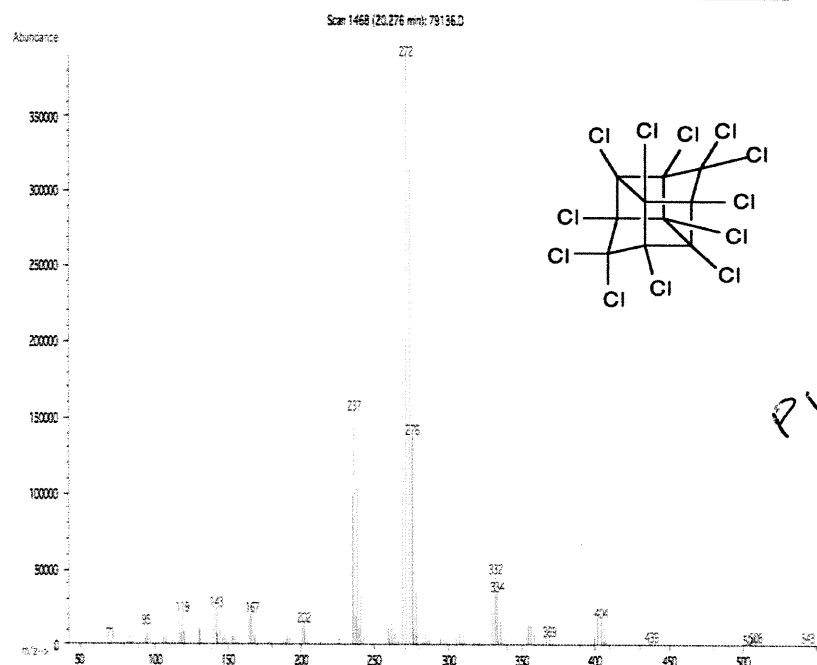
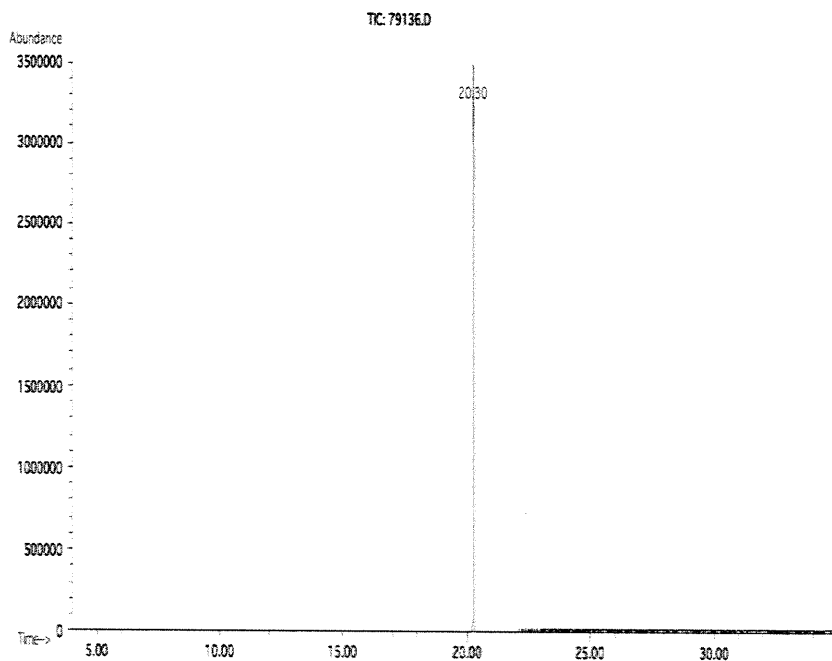
Expiration Date: **102826**
 Recommended Storage: **Refrigerate (4 °C)**
 Nominal Concentration (µg/mL): **1000**
 NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**
 5E-05 Balance Uncertainty
 0.006 Flask Uncertainty

<i>Eli Aliaga</i>		102821
Formulated By:	Eli Aliaga	DATE
<i>Pedro L. Rentas</i>		102821
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Mirex	437	9492400	1000	99.4	0.5	0.05034	0.05039	1000.9	10.3	2385-85-5	N/A	ori-rat 306mg/kg

Method GC7MSD-1.M: Column: SPB-608 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 150°C (4min.), Temp 2 = 290°C (13.5 min.), Rate = 8°C/min., Injector B= 200°C, Detector B = 290°C. Split Ratio = 100:1, Scan Rate = 2. Analysis performed by Candice Warren.



P11142
 To
 P11146
 AR
 11/02/21

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



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Fax: 1-814-353-1309

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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. : 32291 **Lot No.:** A0200423

Description : Organochlorine Pesticide Mix AB #1

Organochlorine Pesticide Mix AB #1 200µg/mL, Hexane/Toluene(50:50), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 10°C or colder

Ship: Ambient

P 13034
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P 13038
✓
12.26.2023

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	alpha-BHC	319-84-6	14434500	99%	200.5 µg/mL	+/- 8.9956
2	gamma-BHC (Lindane)	58-89-9	14184400	98%	199.9 µg/mL	+/- 8.9696
3	beta-BHC	319-85-7	BCCC6425	99%	200.0 µg/mL	+/- 8.9732
4	delta-BHC	319-86-8	14450800	98%	199.9 µg/mL	+/- 8.9696
5	Heptachlor	76-44-8	813251	99%	202.0 µg/mL	+/- 9.0629
6	Aldrin	309-00-2	14389400	98%	200.9 µg/mL	+/- 9.0136
7	Heptachlor epoxide (isomer B)	1024-57-3	14448800	99%	200.0 µg/mL	+/- 8.9732
8	trans-Chlordane	5103-74-2	34616	99%	200.5 µg/mL	+/- 8.9956
9	cis-Chlordane	5103-71-9	31766	98%	201.4 µg/mL	+/- 9.0356
10	Endosulfan I	959-98-8	BCCF4060	99%	200.0 µg/mL	+/- 8.9732
11	4,4'-DDE	72-55-9	GHYQG	99%	201.5 µg/mL	+/- 9.0405
12	Dieldrin	60-57-1	14515000	98%	199.9 µg/mL	+/- 8.9696
13	Endrin	72-20-8	14485300	98%	200.4 µg/mL	+/- 8.9916
14	4,4'-DDD	72-54-8	HAN02	99%	200.5 µg/mL	+/- 8.9956
15	Endosulfan II	33213-65-9	14374700	99%	200.0 µg/mL	+/- 8.9732
16	4,4'-DDT	50-29-3	230410JLMA	98%	201.9 µg/mL	+/- 9.0575

17	Endrin aldehyde	7421-93-4	30720	98%	201.4 µg/mL	+/- 9.0356
18	Endosulfan sulfate	1031-07-8	BCCH9010	99%	200.5 µg/mL	+/- 8.9956
19	Methoxychlor	72-43-5	14563200	98%	200.9 µg/mL	+/- 9.0136
20	Endrin ketone	53494-70-5	14537700	98%	199.9 µg/mL	+/- 8.9696

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

Solvent: Hexane/Toluene (50:50)
CAS # 110-54-3/108-88-3
Purity 99%

P13034
P13038
1
5
12/26/2023

Quality Confirmation Test

Column:
30m x .25mm x .2µm
Rtx-CLP II (cat.# 11323)

Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

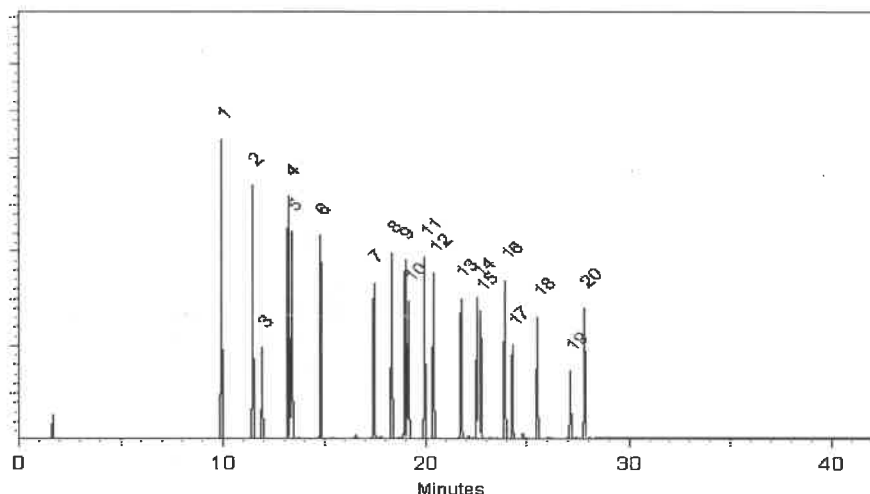
Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD

Split Vent:
Split ratio 50:1

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.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 31-Jul-2023 **Balance Serial #** B442140311

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 03-Aug-2023

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



CERTIFIED WEIGHT REPORT

Part Number: **19161**
 Lot Number: **013124**
 Description: **CLP Pesticides & PCB's Resolution Check Standard**
 9 components
 Expiration Date: **013129**
 Recommended Storage: **Refrigerate (4 °C)**
 Nominal Concentration (µg/mL): **Varied**
 NIST Test ID#: **6UTB**
 Volume(s) shown below were combined and diluted to (mL): **100.0**

Solvent(s):
 Hexane 273615 (50%)
 Toluene 28508 (50%)

		013124
Formulated By:	Lawrence Barry	DATE
		013124
Reviewed By:	Pedro L. Rentas	DATE

Compound	Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Initial Conc.(ug/mL)	Final Conc.(ug/mL)	Expanded Uncertainty (+/-) µg/mL	SDS Information (Solvent Safety Info. On Attached pg.)		
									CAS#	OSHA PEL (TWA)	LD50
1. trans-Chlordane	19361	013124	0.010	1.00	0.004	101.3	1.0	0.02	5103-74-2	0.5mg/m3 (skin)	ori-rat 500mg/kg
2. Endosulfan I	19361	013124	0.010	1.00	0.004	101.3	1.0	0.02	959-98-8	0.1mg/m3 (skin)	ori-rat 18mg/kg
3. 4,4'-DDE	19361	013124	0.010	1.00	0.004	201.6	2.0	0.03	72-55-9	N/A	ori-rat 880mg/kg
4. Dieldrin	19361	013124	0.010	1.00	0.004	202.8	2.0	0.03	60-57-1	0.25mg/m3 (skin)	ori-rat 38300ug/kg
5. Endosulfan sulfate	19361	013124	0.010	1.00	0.004	204.2	2.0	0.03	1031-07-8	N/A	ori-rat 18mg/kg
6. Endrin ketone	19361	013124	0.010	1.00	0.004	202.6	2.0	0.03	53494-70-5	N/A	N/A
7. 4,4'-Methoxychlor	19361	013124	0.010	1.00	0.004	1000.7	10.0	0.09	72-43-5	10mg/m3	ori-rat 6000mg/kg
8. 2,4,5,6-Tetrachloro-m-xylene	19361	013124	0.010	1.00	0.004	202.6	2.0	0.03	877-09-8	N/A	N/A
9. Decachlorobiphenyl (209)	19361	013124	0.010	1.00	0.004	202.0	2.0	0.03	2051-24-3	N/A	N/A

• The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
 • Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
 • Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
 • All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
 • Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

P13243 } (5)
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 P13247 }
 ↓
 02/9/2024



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Fax: 1-814-353-1309

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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. : 32000 **Lot No.:** A0206810

Description : Pesticide Surrogate Mix
Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use. **Ship:** Ambient

P13348
↓
P13357
10
DAUF
04/25/2024

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4,5,6-Tetrachloro-m-xylene	877-09-8	RP220407	99%	200.3 µg/mL	+/- 11.1143
2	Decachlorobiphenyl (BZ# 209)	2051-24-3	30638	99%	200.6 µg/mL	+/- 11.1298

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

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Tech Tips:

Decachlorobiphenyl has poor solubility in most organic solvents. The maximum concentration that can be prepared in acetone, hexane, or isooctane is 200µg/mL. Temperature will affect the solubility as well. Storing solutions at reduced temperatures will cause decachlorobiphenyl to precipitate.

Products containing decachlorobiphenyl must be sonicated for a minimum of 10 minutes prior to opening the ampul. Because each ultrasonic bath operates at a different energy level, 10 minutes is a guideline only. Longer sonication time will not affect product quality.

These precautions apply to working solutions prepared in your laboratory as well. The amount of compound that precipitates depends on concentration AND temperature. If you store your standards at a temperature lower than 4°C (even dilute solutions), allow extra sonication time.

Quality Confirmation Test

Column:

30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

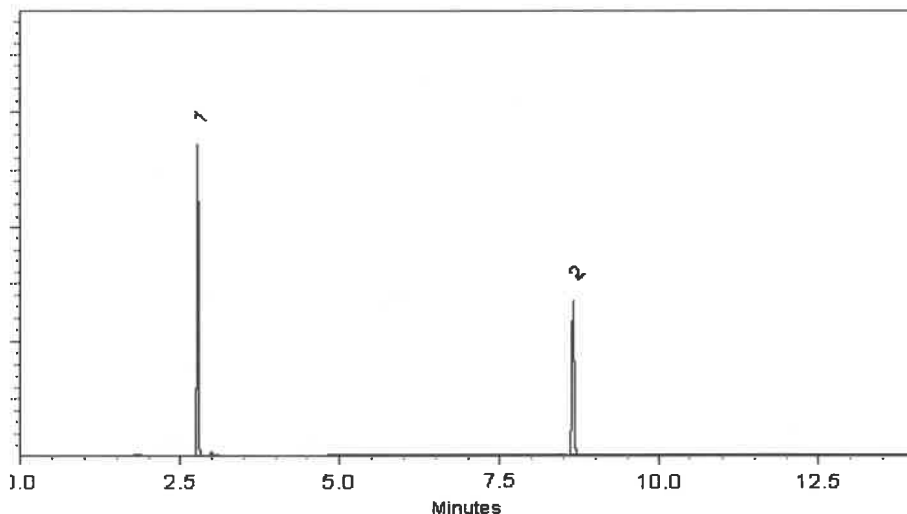
ECD

Split Vent:

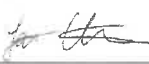
10 ml/min.

Inj. Vol

1µl

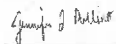


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Laith Clemente - Operations Technician I

Date Mixed: 22-Jan-2024

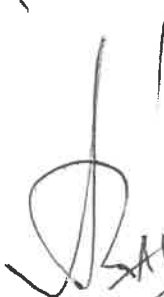
Balance Serial # 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jan-2024

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

P 13348
↓
P 13357 } (10)


SAUF
04/25/2025



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. : 32000 **Lot No.:** A0206810

Description : Pesticide Surrogate Mix
Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use. **Ship:** Ambient

P13348
↓
P13357
10
DAUF
04/25/2024

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4,5,6-Tetrachloro-m-xylene	877-09-8	RP220407	99%	200.3 µg/mL	+/- 11.1143
2	Decachlorobiphenyl (BZ# 209)	2051-24-3	30638	99%	200.6 µg/mL	+/- 11.1298

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

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Tech Tips:

Decachlorobiphenyl has poor solubility in most organic solvents. The maximum concentration that can be prepared in acetone, hexane, or isooctane is 200µg/mL. Temperature will affect the solubility as well. Storing solutions at reduced temperatures will cause decachlorobiphenyl to precipitate.

Products containing decachlorobiphenyl must be sonicated for a minimum of 10 minutes prior to opening the ampul. Because each ultrasonic bath operates at a different energy level, 10 minutes is a guideline only. Longer sonication time will not affect product quality.

These precautions apply to working solutions prepared in your laboratory as well. The amount of compound that precipitates depends on concentration AND temperature. If you store your standards at a temperature lower than 4°C (even dilute solutions), allow extra sonication time.

Quality Confirmation Test

Column:

30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

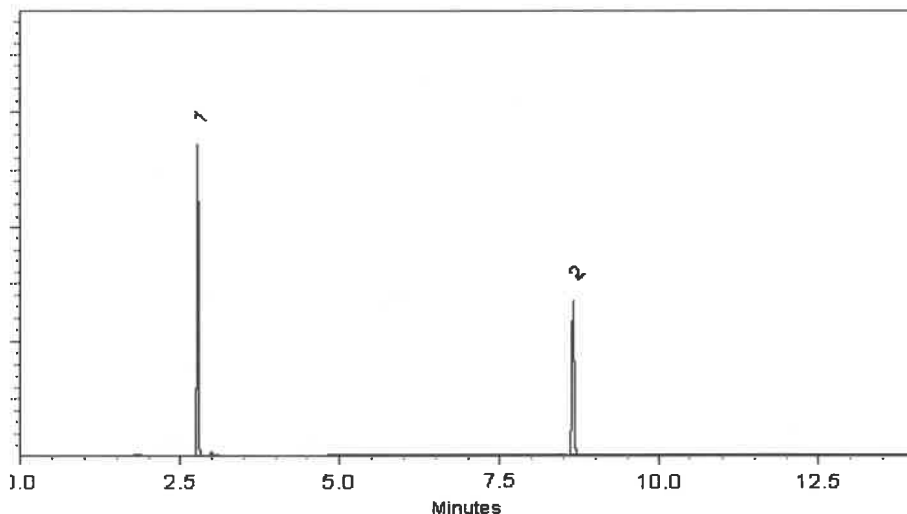
ECD

Split Vent:

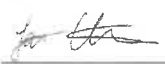
10 ml/min.

Inj. Vol

1µl

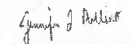


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Laith Clemente - Operations Technician I

Date Mixed: 22-Jan-2024

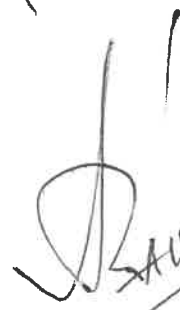
Balance Serial # 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jan-2024

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

P 13348
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P 13357
10


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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. : 32000 **Lot No.:** A0206810

Description : Pesticide Surrogate Mix
Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use. **Ship:** Ambient

P13348
↓
P13357
10
DAUF
04/25/2024

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4,5,6-Tetrachloro-m-xylene	877-09-8	RP220407	99%	200.3 µg/mL	+/- 11.1143
2	Decachlorobiphenyl (BZ# 209)	2051-24-3	30638	99%	200.6 µg/mL	+/- 11.1298

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

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Tech Tips:

Decachlorobiphenyl has poor solubility in most organic solvents. The maximum concentration that can be prepared in acetone, hexane, or isooctane is 200µg/mL. Temperature will affect the solubility as well. Storing solutions at reduced temperatures will cause decachlorobiphenyl to precipitate.

Products containing decachlorobiphenyl must be sonicated for a minimum of 10 minutes prior to opening the ampul. Because each ultrasonic bath operates at a different energy level, 10 minutes is a guideline only. Longer sonication time will not affect product quality.

These precautions apply to working solutions prepared in your laboratory as well. The amount of compound that precipitates depends on concentration AND temperature. If you store your standards at a temperature lower than 4°C (even dilute solutions), allow extra sonication time.

Quality Confirmation Test

Column:

30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

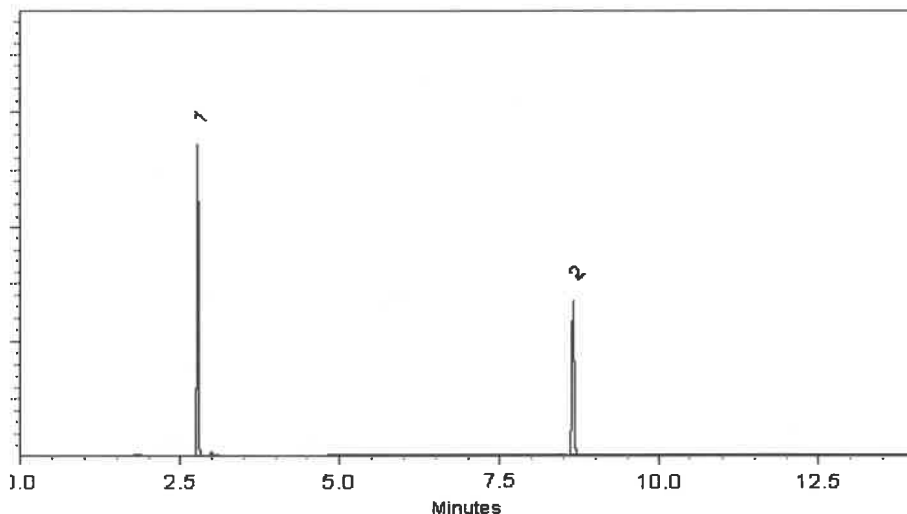
ECD

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.

Laith Clemente
Laith Clemente - Operations Technician I

Date Mixed: 22-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jan-2024

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

P 13348
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P 13357
10
SAUF
04/25/2025



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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. : 32005 **Lot No.:** A0203038

Description : Toxaphene Standard

Toxaphene Standard 1000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Toxaphene	8001-35-2	1051817	----%	1,009.0 µg/mL	+/- 55.9920

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

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

P 13358
↓
P 13369
(12)

[Signature]
05-06-2024

Quality Confirmation Test

Column:

30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

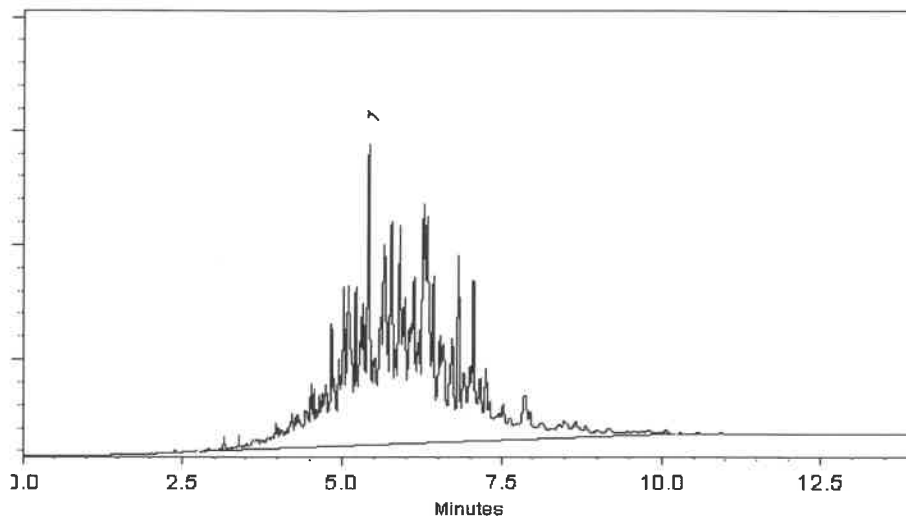
ECD

Split Vent:

300 ml/min.

Inj. Vol

0.2µl



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.


Dakota Parson - Operations Technician I

Date Mixed: 10-Oct-2023

Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Oct-2023

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

P13358
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P13369
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(12)


05-06-2024



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Fax: 1-814-353-1309

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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. : 32005 **Lot No.:** A0203038

Description : Toxaphene Standard
Toxaphene Standard 1000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2028 **Storage:** 10°C or colder
Ship: Ambient

P13402 } (5)
P13406 }
5/22/2021

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Toxaphene	8001-35-2	1051817	---%	1,009.0 µg/mL	+/- 55.9920

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

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

Quality Confirmation Test

Column:

30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:

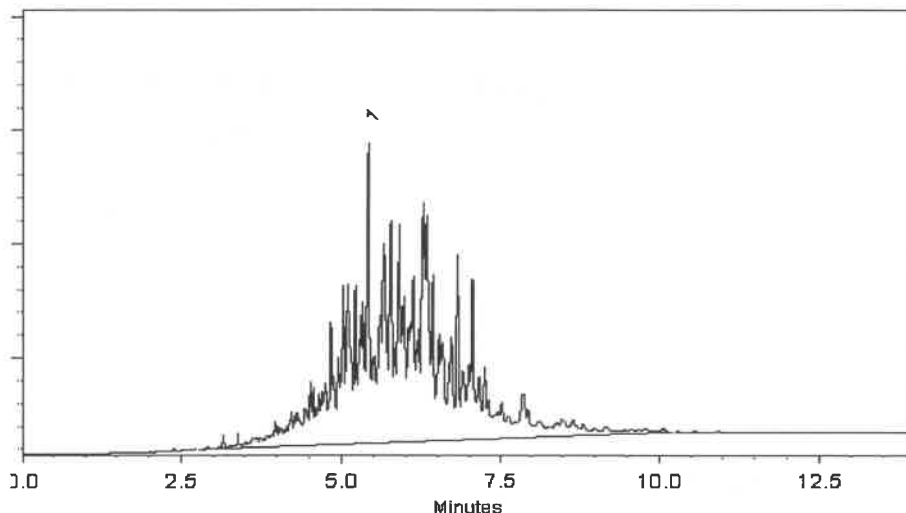
ECD

Split Vent:

300 ml/min.

Inj. Vol

0.2µl



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.


Dakota Parson - Operations Technician I

Date Mixed: 10-Oct-2023

Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Oct-2023

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

P13402
↓
P13406 } (5)


5/22/2024



SHIPPING DOCUMENTS

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

Q1421

USEPA

CHAIN OF CUSTODY RECORD

No: 2-022425-130044-0031

DateShipped: 2/24/2025

Site #: 51835

RFP# NA

CarrierName:

Contact Name Josh Frizzell

Lab: Alliance Technical Group, LLC - Non
CLP

AirbillNo:

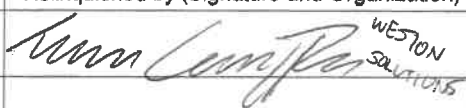
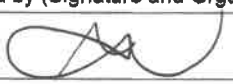
(470) 277-4600

Lab Phone: 908-728-3144

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-Clay-CF01-01	HL_Pile	TAL VOCs	Soil	2/24/2025	09:40	9	5 gram Encore	4 C	Y
	P001-Clay-CF01-01	HL_Pile	Percent Moisture	Soil	2/24/2025	09:40	1	4 oz glass w/ septum	4 C	Y
	P001-Clay-CF01-01	HL_Pile	TAL SVOC+Pest+PCB	Soil	2/24/2025	09:40	4	8 oz glass	4 C	Y
	P001-Clay-CF01-01	HL_Pile	TAL Metals+Hg+CN	Soil	2/24/2025	09:40	4	8 oz glass	4 C	Y
	P001-Clay-CF01-01	HL_Pile	EPH	Soil	2/24/2025	09:40	2	4 oz glass	4 C	Y
	P001-Clay-CF01-01	HL_Pile	SPLP VOCs	Soil	2/24/2025	09:40	8	40 mL Amber Vial W/ Septum	4 C	Y
	P001-Clay-CF01-01	HL_Pile	SPLP SVOCs + Pesticides+PCBs	Soil	2/24/2025	09:40	4	8 oz glass	4 C	Y
	P001-Clay-CF01-01	HL_Pile	SPLP Metals + Hg&CN	Soil	2/24/2025	09:40	4	8 oz glass	4 C	Y
	P001-Clay-CF01-01	HL_Pile	SPLP EPH	Soil	2/24/2025	09:40	4	8 oz glass	4 C	Y

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT 7 days.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	 WESTON SOLUTIONS	2/24/25 1500		2-24-25 1425	4.9-6 JLF new #1
					Temp BIL present
					custody seals intact

Q1421

USEPA

DateShipped: 2/24/2025

CarrierName:

AirbillNo:

CHAIN OF CUSTODY RECORD

Site #: 51835

Contact Name Josh Frizzell

(470) 277-4600

No: 2-022425-130044-0031

RFP# NA

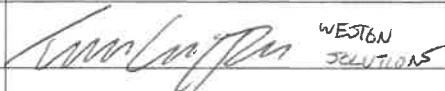
Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-Clay-CF01-02	HL_Pile	TAL VOCs	Soil	2/24/2025	09:50	3	5 gram Encore	4 C	N
	P001-Clay-CF01-02	HL_Pile	Percent Moisture	Soil	2/24/2025	09:50	1	4 oz glass w/ septum	4 C	N
	P001-Clay-CF01-02	HL_Pile	TAL SVOC+Pest+PCB	Soil	2/24/2025	09:50	2	8 oz glass	4 C	N
	P001-Clay-CF01-02	HL_Pile	TAL Metals+Hg+CN	Soil	2/24/2025	09:50	2	8 oz glass	4 C	N
	P001-Clay-CF01-02	HL_Pile	EPH	Soil	2/24/2025	09:50	1	4 oz glass	4 C	N
	P001-Clay-CF01-02	HL_Pile	SPLP VOCs	Soil	2/24/2025	09:50	4	40 mL Amber Vial W/ Septum	4 C	N
	P001-Clay-CF01-02	HL_Pile	SPLP SVOCs + Pesticides+PCBs	Soil	2/24/2025	09:50	2	8 oz glass	4 C	N
	P001-Clay-CF01-02	HL_Pile	SPLP Metals + Hg&CN	Soil	2/24/2025	09:50	2	8 oz glass	4 C	N
	P001-Clay-CF01-02	HL_Pile	SPLP EPH	Soil	2/24/2025	09:50	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT 7 days.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	 WESTON SOLUTIONS	2/24/25 1500		2-24-25 1425	4.9C TAL Metals + Hg Temp dbk. present custody seals intact

Q1421

USEPA

DateShipped: 2/24/2025

CarrierName:

AirbillNo:

CHAIN OF CUSTODY RECORD

Site #: 51835

Contact Name Josh Frizzell

(470) 277-4600

No: 2-022425-130044-0031

RFP# NA

Lab: Alliance Technical Group, LLC - Non
CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-Clay-CF02-01	HL_Pile	TAL VOCs	Soil	2/24/2025	10:00	3	5 gram Encore	4 C	N
	P001-Clay-CF02-01	HL_Pile	Percent Moisture	Soil	2/24/2025	10:00	1	4 oz glass w/ septum	4 C	N
	P001-Clay-CF02-01	HL_Pile	TAL SVOC+Pest+PCB	Soil	2/24/2025	10:00	2	8 oz glass	4 C	N
	P001-Clay-CF02-01	HL_Pile	TAL Metals+Hg+CN	Soil	2/24/2025	10:00	2	8 oz glass	4 C	N
	P001-Clay-CF02-01	HL_Pile	EPH	Soil	2/24/2025	10:00	1	4 oz glass	4 C	N
	P001-Clay-CF02-01	HL_Pile	SPLP VOCs	Soil	2/24/2025	10:00	4	40 mL Amber Vial W/ Septum	4 C	N
	P001-Clay-CF02-01	HL_Pile	SPLP SVOCs + Pesticides+PCBs	Soil	2/24/2025	10:00	2	8 oz glass	4 C	N
	P001-Clay-CF02-01	HL_Pile	SPLP Metals + Hg&CN	Soil	2/24/2025	10:00	2	8 oz glass	4 C	N
	P001-Clay-CF02-01	HL_Pile	SPLP EPH	Soil	2/24/2025	10:00	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT 7 days.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All SAMPLES ALL ANALYSES	 WESTON SOLUTIONS	2/24/25 1500		2-24-25 1425	4.9°C IR #1
					Temp. OK: present
					custody seals intact

From: Sumbaly, Smita <S.Sumbaly@WestonSolutions.com>
Sent: Tuesday, February 25, 2025 9:30 AM
To: Jordan@chemtech.net
Cc: yazmeen.gomez@alliancetg.com
Subject: RE: Site # 51835
Attachments: RFP#905-corrected COC.pdf

Jordan – Attached please find corrected COC with RFP# 905 and use the SW 846 Methods. Contact me with any questions.

Thanks,
Smita

From: Jordan Hedvat <Jordan@chemtech.net>
Sent: Monday, February 24, 2025 5:32 PM
To: Sumbaly, Smita <S.Sumbaly@WestonSolutions.com>
Cc: yazmeen.gomez@alliancetg.com
Subject: RE: Site # 51835

*** External Message *** -- PROBE message before clicking links or opening attachments.

Thanks, the COC did not mention specific Methods so we are running by standard SW-846. If CLP Methods required for these samples received today please let us know. COC is attached (# Q1421)

Regards,
Jordan



Jordan Hedvat
Account Executive, Environmental Laboratories
Main: 908-789-8900
Direct: 908-728-3144
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: Sumbaly, Smita [<mailto:S.Sumbaly@WestonSolutions.com>]
Sent: Monday, February 24, 2025 5:28 PM
To: Jordan@chemtech.net
Subject: Re: Site # 51835

Rfp#905

Sent from my iPhone

On Feb 24, 2025, at 4:36 PM, Jordan Hedvat <Jordan@chemtech.net> wrote:

*** External Message *** -- PROBE message before clicking links or opening attachments.

Good afternoon Smita,

We received project with COC titled "Site # 51835." Please confirm for which RFP # project this falls under so we may include the correct pricing provided at the time of bid? Thank you

Regards,
Jordan

<image001.png>

Jordan Hedvat

Account Executive, Environmental Laboratories

Main: 908-789-8900

Direct: 908-728-3144

Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092

www.alliancetg.com

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Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1421	ROYF02	Order Date : 2/24/2025 2:56:42 PM	Project Mgr :
Client Name : Weston Solutions, Inc.		Project Name : ~~51835~~ RFP 905	Report Type : Level 4
Client Contact : Smita Sumbaly		Receive DateTime : 2/24/2025 2:25:00 PM	EDD Type : EXCEL NOCLEANUP
Invoice Name : Weston Solutions, Inc.		Purchase Order :	Hard Copy Date :
Invoice Contact : Smita Sumbaly			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1421-01	P001-CLAY-CF01-01	Solid	02/24/2025	09:40	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1421-02	Q1421-01MS	Solid	02/24/2025	09:40	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1421-03	Q1421-01MSD	Solid	02/24/2025	09:40	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1421-07	P001-CLAY-CF01-02	Solid	02/24/2025	09:50	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1421-09	P001-CLAY-CF02-01	Solid	02/24/2025	10:00	VOC-TCLVOA-10		8260D	10 Bus. Days	

Relinquished By : OR
Date / Time : 2-24-25 15:40

Received By : [Signature]
Date / Time : 2-24-25 15:40

Storage Area : VOA Refridgerator Room