284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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DATA PACKAGE

GC SEMI-VOLATILES

PROJECT NAME : RAYMARK SUPERFUND SITE

NOBIS GROUP

585 Middlesex Street

Lowell, MA - 01851

Phone No: 978-683-0891

ORDER ID : Q1984

ATTENTION : Adam Roy

Laboratory Certification ID # 20012

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Cover Page

Order ID : Q1984

Project ID : Raymark Superfund Site

Client : Nobis Group

Lab Sample Number	Client Sample Number
Q1984-01	OU4-PCS-TC-33-050725
Q1984-02	OU4-PCS-TC-33-050725
Q1984-03	OU4-PCS-TC-34-050725
Q1984-04	OU4-PCS-TC-34-050725
Q1984-05	OU4-PCS-TC-35-050725
Q1984-06	OU4-PCS-TC-35-050725
Q1984-07	OU4-TS-24-050725
Q1984-08	OU4-TS-24-050725
Q1984-09	OU4-TS-25-050725
Q1984-10	OU4-TS-25-050725
Q1984-11	OU4-TS-26-050725
Q1984-12	OU4-TS-26-050725
Q1984-13	OU4-TS-27-050725
Q1984-14	OU4-TS-27-050725
Q1984-15	OU4-TS-28-050725
Q1984-16	OU4-TS-28-050725
Q1984-19	OU4-TB01-050725

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

Signature : _____

Date: 5/22/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Nobis Group
Project Name: Raymark Superfund Site
Project # N/A
Order ID # Q1984
Test Name: Pesticide-TCL

A. Number of Samples and Date of Receipt:
17 Solid samples were received on 05/08/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Cyanide, Herbicide Group1, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SPLP Extraction, SPLP Mercury, SPLP MetalGroup3, SVOCMS Group3, VOCMS Group1 and VOCMS Group3. This data package contains results for Pesticide-TCL.

C. Analytical Techniques:
The analysis was performed on instrument ECD_D. 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 Pesticide-TCLs 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
OU4-TS-25-050725 [Decachlorobiphenyl(1) - 45%, Decachlorobiphenyl(2) - 34%],
OU4-TS-25-050725RE [Decachlorobiphenyl(1) - 53%, Decachlorobiphenyl(2) - 46%],
OU4-TS-26-050725 [Decachlorobiphenyl(1) - 35%, Decachlorobiphenyl(2) - 28%],
OU4-TS-26-050725RE [Decachlorobiphenyl(1) - 26%, Decachlorobiphenyl(2) - 28%],
OU4-TS-27-050725 [Decachlorobiphenyl(1) - 45%, Decachlorobiphenyl(2) - 36%],
OU4-TS-27-050725RE [Decachlorobiphenyl(1) - 36%, Decachlorobiphenyl(2) - 31%],
OU4-TS-28-050725 [Decachlorobiphenyl(1) - 37%, Decachlorobiphenyl(2) - 27%],
OU4-TS-28-050725RE [Decachlorobiphenyl(1) - 27% and Decachlorobiphenyl(2) - 26%]All the failure samples in surrogates with both columns were 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 .

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

The Continuous Calibration File ID PD088573.D met the requirements except for alpha-BHC is failing in 1st column but it is passing in 2nd column therefore no corrective action taken.

E. Additional Comments:
As per special requirement for this project form-1 are reported in mg/kg.
The not QT review data is reported in the Miscellaneous.
The soil samples results are based on a dry weight basis.

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

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

Signature_____

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DATA REPORTING QUALIFIERS- ORGANIC

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

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

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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q1984 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 File ID PD088573.D met the requirements except for alpha-BHC is failing in 1st column but it is passing in 2nd column therefore no corrective action taken.			✓
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 OU4-TS-25-050725 [Decachlorobiphenyl(1) - 45%, Decachlorobiphenyl(2) - 34%], OU4-TS-25-050725RE [Decachlorobiphenyl(1) - 53%, Decachlorobiphenyl(2) - 46%], OU4-TS-26-050725 [Decachlorobiphenyl(1) - 35%, Decachlorobiphenyl(2) - 28%], OU4-TS-26-050725RE [Decachlorobiphenyl(1) - 26%, Decachlorobiphenyl(2) - 28%], OU4-TS-27-050725 [Decachlorobiphenyl(1) - 45%, Decachlorobiphenyl(2) - 36%], OU4-TS-27-050725RE [Decachlorobiphenyl(1) - 36%, Decachlorobiphenyl(2) - 31%], OU4-TS-28-050725 [Decachlorobiphenyl(1) - 37%, Decachlorobiphenyl(2) - 27%], OU4-TS-28-050725RE [Decachlorobiphenyl(1) - 27% and Decachlorobiphenyl(2) - 26%] All the failure samples in surrogates with both columns were reanalyzed to confirm the results as per method and reported in the data.		✓	

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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

		NA	NO	YES
6.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The MS recoveries met the requirements for all compounds .			
	The MSD recoveries met the acceptable requirements .			
	The Blank Spike met requirements for all samples .			
	The RPD met criteria .			
7.	Retention Time Shift Meet Criteria (if applicable)			✓
	Comments:			
8.	Extraction Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
9.	Analysis Holding Time Met			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			

ADDITIONAL COMMENTS:

As per special requirement for this project form-1 are reported in mg/kg.

The not QT review data is reported in the Miscellaneous.

The soil samples results are based on a dry weight basis.

_____ _____

QA REVIEW Date

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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

	NA	NO	YES

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1984

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

QA Review Signature: SOHIL JODHANI **Date:** 05/22/2025

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LAB CHRONICLE

OrderID:	Q1984	**OrderDate:**	5/8/2025 10:48:00 AM
Client:	Nobis Group	**Project:**	Raymark Superfund Site
Contact:	Adam Roy	**Location:**	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1984-01	**OU4-PCS-TC-33-050725**	**SOIL**			**05/07/25**			**05/08/25**
			PCB	8082A		05/12/25	05/12/25	
			Pesticide-TCL	8081B		05/13/25	05/15/25	
Q1984-03	**OU4-PCS-TC-34-050725**	**SOIL**			**05/07/25**			**05/08/25**
			PCB	8082A		05/12/25	05/12/25	
			Pesticide-TCL	8081B		05/13/25	05/15/25	
Q1984-05	**OU4-PCS-TC-35-050725**	**SOIL**			**05/07/25**			**05/08/25**
			PCB	8082A		05/12/25	05/12/25	
			Pesticide-TCL	8081B		05/13/25	05/15/25	
Q1984-07	**OU4-TS-24-050725**	**SOIL**			**05/07/25**			**05/08/25**
			PCB	8082A		05/12/25	05/12/25	
			Pesticide-TCL	8081B		05/13/25	05/15/25	
Q1984-09	**OU4-TS-25-050725**	**SOIL**			**05/07/25**			**05/08/25**
			PCB	8082A		05/12/25	05/13/25	
			Pesticide-TCL	8081B		05/13/25	05/15/25	
Q1984-09RE	**OU4-TS-25-050725RE**	**SOIL**			**05/07/25**			**05/08/25**
			Pesticide-TCL	8081B		05/13/25	05/19/25	
Q1984-11	**OU4-TS-26-050725**	**SOIL**			**05/07/25**			**05/08/25**
			PCB	8082A		05/12/25	05/12/25	
			Pesticide-TCL	8081B		05/13/25	05/15/25	
Q1984-11RE	**OU4-TS-26-050725RE**	**SOIL**			**05/07/25**			**05/08/25**
			Pesticide-TCL	8081B		05/13/25	05/19/25	

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LAB CHRONICLE

Q1984-13	**OU4-TS-27-050725**	**SOIL**			**05/07/25**			**05/08/25**
			PCB	8082A		05/12/25	05/13/25	
			Pesticide-TCL	8081B		05/13/25	05/15/25	
Q1984-13RE	**OU4-TS-27-050725RE**	**SOIL**			**05/07/25**			**05/08/25**
			Pesticide-TCL	8081B		05/13/25	05/19/25	
Q1984-15	**OU4-TS-28-050725**	**SOIL**			**05/07/25**			**05/08/25**
			PCB	8082A		05/13/25	05/14/25	
			Pesticide-TCL	8081B		05/13/25	05/15/25	
Q1984-15RE	**OU4-TS-28-050725RE**	**SOIL**			**05/07/25**			**05/08/25**
			Pesticide-TCL	8081B		05/13/25	05/19/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1984 **Order ID:** Q1984

Client: Nobis Group **Project ID:** Raymark Superfund Site

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : OU4-TS-24-050725									
Q1984-07	OU4-TS-24-050725	SOIL	Dieldrin	0.00053	J	0.00020	0.00047	0.0024	mg/Kg
Q1984-07	OU4-TS-24-050725	SOIL	4,4-DDE	0.0010	J	0.00020	0.00047	0.0024	mg/Kg
Q1984-07	OU4-TS-24-050725	SOIL	Endrin	0.00027	J	0.00020	0.00047	0.0024	mg/Kg
Q1984-07	OU4-TS-24-050725	SOIL	alpha-Chlordane	0.0016	JP	0.00017	0.00047	0.0024	mg/Kg
Q1984-07	OU4-TS-24-050725	SOIL	gamma-Chlordane	0.0015	J	0.00021	0.00047	0.0024	mg/Kg
			Total Concentration:	**0.00490**					
Client ID : OU4-TS-25-050725									
Q1984-09	OU4-TS-25-050725	SOIL	Dieldrin	0.00047	J	0.00021	0.00048	0.0025	mg/Kg
Q1984-09	OU4-TS-25-050725	SOIL	4,4-DDE	0.0010	J	0.00021	0.00048	0.0025	mg/Kg
Q1984-09	OU4-TS-25-050725	SOIL	alpha-Chlordane	0.0014	JP	0.00018	0.00048	0.0025	mg/Kg
Q1984-09	OU4-TS-25-050725	SOIL	gamma-Chlordane	0.0011	J	0.00022	0.00048	0.0025	mg/Kg
			Total Concentration:	**0.00397**					
Client ID : OU4-TS-25-050725RE									
Q1984-09RE	OU4-TS-25-050725RI	SOIL	Dieldrin	0.00045	J	0.00021	0.00048	0.0025	mg/Kg
Q1984-09RE	OU4-TS-25-050725RI	SOIL	4,4-DDE	0.0011	JP	0.00021	0.00048	0.0025	mg/Kg
Q1984-09RE	OU4-TS-25-050725RI	SOIL	alpha-Chlordane	0.0012	JP	0.00018	0.00048	0.0025	mg/Kg
Q1984-09RE	OU4-TS-25-050725RI	SOIL	gamma-Chlordane	0.0013	JP	0.00022	0.00048	0.0025	mg/Kg
			Total Concentration:	**0.00405**					
Client ID : OU4-TS-26-050725									
Q1984-11	OU4-TS-26-050725	SOIL	4,4-DDE	0.0013	J	0.00023	0.00055	0.0028	mg/Kg
Q1984-11	OU4-TS-26-050725	SOIL	alpha-Chlordane	0.00059	JP	0.00020	0.00055	0.0028	mg/Kg
			Total Concentration:	**0.00189**					
Client ID : OU4-TS-26-050725RE									
Q1984-11RE	OU4-TS-26-050725RI	SOIL	4,4-DDE	0.0010	J	0.00023	0.00055	0.0028	mg/Kg
Q1984-11RE	OU4-TS-26-050725RI	SOIL	alpha-Chlordane	0.00051	J	0.00020	0.00055	0.0028	mg/Kg
			Total Concentration:	**0.00151**					
Client ID : OU4-TS-27-050725									
Q1984-13	OU4-TS-27-050725	SOIL	Dieldrin	0.00034	J	0.00022	0.00053	0.0027	mg/Kg
Q1984-13	OU4-TS-27-050725	SOIL	4,4-DDE	0.00075	J	0.00022	0.00053	0.0027	mg/Kg
Q1984-13	OU4-TS-27-050725	SOIL	Endrin	0.00030	J	0.00022	0.00053	0.0027	mg/Kg
Q1984-13	OU4-TS-27-050725	SOIL	alpha-Chlordane	0.00085	JP	0.00019	0.00053	0.0027	mg/Kg
Q1984-13	OU4-TS-27-050725	SOIL	gamma-Chlordane	0.00073	J	0.00024	0.00053	0.0027	mg/Kg
			Total Concentration:	**0.00297**					

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Hit Summary Sheet
SW-846

SDG No.: Q1984 **Order ID:** Q1984

Client: Nobis Group **Project ID:** Raymark Superfund Site

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	**OU4-TS-27-050725RE**								
Q1984-13RE	OU4-TS-27-050725RI	SOIL	Dieldrin	0.00034	JP	0.00022	0.00053	0.0027	mg/Kg
Q1984-13RE	OU4-TS-27-050725RI	SOIL	4,4-DDE	0.00068	JP	0.00022	0.00053	0.0027	mg/Kg
Q1984-13RE	OU4-TS-27-050725RI	SOIL	Endrin	0.00030	J	0.00022	0.00053	0.0027	mg/Kg
Q1984-13RE	OU4-TS-27-050725RI	SOIL	alpha-Chlordane	0.00059	JP	0.00019	0.00053	0.0027	mg/Kg
Q1984-13RE	OU4-TS-27-050725RI	SOIL	gamma-Chlordane	0.00075	JP	0.00024	0.00053	0.0027	mg/Kg
			Total Concentration:	**0.00266**					
Client ID :	**OU4-TS-28-050725**								
Q1984-15	OU4-TS-28-050725	SOIL	Dieldrin	0.00039	J	0.00022	0.00051	0.0026	mg/Kg
Q1984-15	OU4-TS-28-050725	SOIL	4,4-DDE	0.00070	J	0.00022	0.00051	0.0026	mg/Kg
Q1984-15	OU4-TS-28-050725	SOIL	alpha-Chlordane	0.00082	JP	0.00019	0.00051	0.0026	mg/Kg
Q1984-15	OU4-TS-28-050725	SOIL	gamma-Chlordane	0.00076	JP	0.00023	0.00051	0.0026	mg/Kg
			Total Concentration:	**0.00267**					
Client ID :	**OU4-TS-28-050725RE**								
Q1984-15RE	OU4-TS-28-050725RI	SOIL	Dieldrin	0.00048	JP	0.00022	0.00051	0.0026	mg/Kg
Q1984-15RE	OU4-TS-28-050725RI	SOIL	4,4-DDE	0.00079	JP	0.00022	0.00051	0.0026	mg/Kg
Q1984-15RE	OU4-TS-28-050725RI	SOIL	alpha-Chlordane	0.00058	J	0.00019	0.00051	0.0026	mg/Kg
Q1984-15RE	OU4-TS-28-050725RI	SOIL	gamma-Chlordane	0.00072	JP	0.00023	0.00051	0.0026	mg/Kg
			Total Concentration:	**0.00257**					

QC SUMMARY

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Surrogate Summary

SDG No.: Q1984

Client: Nobis Group

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PD088121.D	PIBLK-PD088121.D	Decachlorobiphenyl	1	20	22.9	115		30	135
		Tetrachloro-m-xylene	1	20	20.1	101		44	124
		Decachlorobiphenyl	2	20	22.7	113		30	135
		Tetrachloro-m-xylene	2	20	20.9	104		44	124
I.BLK-PD088523.D	PIBLK-PD088523.D	Decachlorobiphenyl	1	20	19.3	97		30	135
		Tetrachloro-m-xylene	1	20	18.3	92		44	124
		Decachlorobiphenyl	2	20	17.4	87		30	135
		Tetrachloro-m-xylene	2	20	17.5	87		44	124
PB167959BL	PB167959BL	Decachlorobiphenyl	1	20	20.1	100		55	130
		Tetrachloro-m-xylene	1	20	19.3	97		42	129
		Decachlorobiphenyl	2	20	18.1	90		55	130
		Tetrachloro-m-xylene	2	20	19.1	96		42	129
PB167959BS	PB167959BS	Decachlorobiphenyl	1	20	22.7	114		55	130
		Tetrachloro-m-xylene	1	20	21.6	108		42	129
		Decachlorobiphenyl	2	20	20.6	103		55	130
		Tetrachloro-m-xylene	2	20	21.3	106		42	129
I.BLK-PD088535.D	PIBLK-PD088535.D	Decachlorobiphenyl	1	20	18.0	90		30	135
		Tetrachloro-m-xylene	1	20	17.4	87		44	124
		Decachlorobiphenyl	2	20	14.8	74		30	135
		Tetrachloro-m-xylene	2	20	16.4	82		44	124
I.BLK-PD088551.D	PIBLK-PD088551.D	Decachlorobiphenyl	1	20	20.9	104		30	135
		Tetrachloro-m-xylene	1	20	20.3	101		44	124
		Decachlorobiphenyl	2	20	18.6	93		30	135
		Tetrachloro-m-xylene	2	20	19.1	95		44	124
Q1984-01	OU4-PCS-TC-33-050725	Decachlorobiphenyl	1	20	21.9	109		55	130
		Tetrachloro-m-xylene	1	20	22.9	115		42	129
		Decachlorobiphenyl	2	20	19.2	96		55	130
		Tetrachloro-m-xylene	2	20	21.6	108		42	129
Q1984-01MS	OU4-PCS-TC-33-050725MS	Decachlorobiphenyl	1	20	21.1	106		55	130
		Tetrachloro-m-xylene	1	20	21.0	105		42	129
		Decachlorobiphenyl	2	20	18.4	92		55	130
		Tetrachloro-m-xylene	2	20	20.5	103		42	129
Q1984-01MSD	OU4-PCS-TC-33-050725MSD	Decachlorobiphenyl	1	20	21.2	106		55	130
		Tetrachloro-m-xylene	1	20	21.4	107		42	129
		Decachlorobiphenyl	2	20	18.9	94		55	130
		Tetrachloro-m-xylene	2	20	20.9	105		42	129
Q1984-03	OU4-PCS-TC-34-050725	Decachlorobiphenyl	1	20	20.0	100		55	130
		Tetrachloro-m-xylene	1	20	22.1	111		42	129
		Decachlorobiphenyl	2	20	17.7	88		55	130
		Tetrachloro-m-xylene	2	20	20.8	104		42	129
Q1984-05	OU4-PCS-TC-35-050725	Decachlorobiphenyl	1	20	21.1	106		55	130

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Surrogate Summary

SDG No.: Q1984

Client: Nobis Group

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
Q1984-05	OU4-PCS-TC-35-050725	Tetrachloro-m-xylene	1	20	23.2	116		42	129
		Decachlorobiphenyl	2	20	18.7	94		55	130
		Tetrachloro-m-xylene	2	20	21.9	109		42	129
Q1984-07	OU4-TS-24-050725	Decachlorobiphenyl	1	20	14.4	72		55	130
		Tetrachloro-m-xylene	1	20	19.6	98		42	129
		Decachlorobiphenyl	2	20	12.2	61		55	130
		Tetrachloro-m-xylene	2	20	18.2	91		42	129
Q1984-09	OU4-TS-25-050725	Decachlorobiphenyl	1	20	9.07	45	*	55	130
		Tetrachloro-m-xylene	1	20	14.8	74		42	129
		Decachlorobiphenyl	2	20	6.73	34	*	55	130
		Tetrachloro-m-xylene	2	20	14.3	71		42	129
I.BLK-PD088565.D	PIBLK-PD088565.D	Decachlorobiphenyl	1	20	15.2	76		30	135
		Tetrachloro-m-xylene	1	20	19.6	98		44	124
		Decachlorobiphenyl	2	20	15.5	77		30	135
		Tetrachloro-m-xylene	2	20	18.4	92		44	124
Q1984-11	OU4-TS-26-050725	Decachlorobiphenyl	1	20	7.02	35	*	55	130
		Tetrachloro-m-xylene	1	20	10.9	55		42	129
		Decachlorobiphenyl	2	20	5.56	28	*	55	130
		Tetrachloro-m-xylene	2	20	10.6	53		42	129
Q1984-13	OU4-TS-27-050725	Decachlorobiphenyl	1	20	9.05	45	*	55	130
		Tetrachloro-m-xylene	1	20	15.1	76		42	129
		Decachlorobiphenyl	2	20	7.18	36	*	55	130
		Tetrachloro-m-xylene	2	20	14.5	73		42	129
Q1984-15	OU4-TS-28-050725	Decachlorobiphenyl	1	20	7.49	37	*	55	130
		Tetrachloro-m-xylene	1	20	13.6	68		42	129
		Decachlorobiphenyl	2	20	5.30	27	*	55	130
		Tetrachloro-m-xylene	2	20	13.4	67		42	129
I.BLK-PD088572.D	PIBLK-PD088572.D	Decachlorobiphenyl	1	20	17.0	85		30	135
		Tetrachloro-m-xylene	1	20	20.2	101		44	124
		Decachlorobiphenyl	2	20	16.0	80		30	135
		Tetrachloro-m-xylene	2	20	19.1	95		44	124
I.BLK-PD088583.D	PIBLK-PD088583.D	Decachlorobiphenyl	1	20	18.4	92		30	135
		Tetrachloro-m-xylene	1	20	16.5	83		44	124
		Decachlorobiphenyl	2	20	18.0	90		30	135
		Tetrachloro-m-xylene	2	20	16.9	84		44	124
I.BLK-PD088604.D	PIBLK-PD088604.D	Decachlorobiphenyl	1	20	19.3	97		30	135
		Tetrachloro-m-xylene	1	20	17.1	85		44	124
		Decachlorobiphenyl	2	20	19.6	98		30	135
		Tetrachloro-m-xylene	2	20	17.9	89		44	124
Q1984-09RE	OU4-TS-25-050725RE	Decachlorobiphenyl	1	20	10.6	53	*	55	130
		Tetrachloro-m-xylene	1	20	12.3	61		42	129

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Surrogate Summary

SDG No.: Q1984

Client: Nobis Group

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
Q1984-09RE	OU4-TS-25-050725RE	Decachlorobiphenyl	2	20	9.22	46	*	55	130
		Tetrachloro-m-xylene	2	20	14.0	70		42	129
Q1984-11RE	OU4-TS-26-050725RE	Decachlorobiphenyl	1	20	5.25	26	*	55	130
		Tetrachloro-m-xylene	1	20	10.1	50		42	129
		Decachlorobiphenyl	2	20	5.69	28	*	55	130
		Tetrachloro-m-xylene	2	20	10.3	52		42	129
Q1984-13RE	OU4-TS-27-050725RE	Decachlorobiphenyl	1	20	7.17	36	*	55	130
		Tetrachloro-m-xylene	1	20	13.2	66		42	129
		Decachlorobiphenyl	2	20	6.12	31	*	55	130
		Tetrachloro-m-xylene	2	20	14.4	72		42	129
Q1984-15RE	OU4-TS-28-050725RE	Decachlorobiphenyl	1	20	5.37	27	*	55	130
		Tetrachloro-m-xylene	1	20	12.4	62		42	129
		Decachlorobiphenyl	2	20	5.11	26	*	55	130
		Tetrachloro-m-xylene	2	20	13.3	66		42	129
I.BLK-PD088613.D	PIBLK-PD088613.D	Decachlorobiphenyl	1	20	15.0	75		30	135
		Tetrachloro-m-xylene	1	20	17.3	87		44	124
		Decachlorobiphenyl	2	20	15.6	78		30	135
		Tetrachloro-m-xylene	2	20	18.1	91		44	124

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1984 **Analytical Method:** 8081B

Client: Nobis Group **DataFile :** PD088559.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**OU4-PCS-TC-33-050725MS**											
Q1984-01MS (Column 1)	alpha-BHC	17.51	0	19.7	ug/kg	113				45	137	
	beta-BHC	17.51	0	19.4	ug/kg	111				50	136	
	delta-BHC	17.51	0	19.9	ug/kg	114				47	139	
	gamma-BHC (Lindane)	17.51	0	20.1	ug/kg	115				49	135	
	Heptachlor	17.51	0	20.4	ug/kg	117				47	136	
	Aldrin	17.51	0	20.0	ug/kg	114				45	136	
	Heptachlor epoxide	17.51	0	19.8	ug/kg	113				52	136	
	Endosulfan I	17.51	0	19.8	ug/kg	113				53	132	
	Dieldrin	17.51	0	20.0	ug/kg	114				56	136	
	4,4'-DDE	17.51	0	19.2	ug/kg	110				56	134	
	Endrin	17.51	0	19.6	ug/kg	112				57	140	
	Endosulfan II	17.51	0	19.0	ug/kg	109				53	134	
	4,4'-DDD	17.51	0	20.1	ug/kg	115				56	139	
	Endosulfan sulfate	17.51	0	19.2	ug/kg	110				55	136	
	4,4'-DDT	17.51	0	19.3	ug/kg	110				50	141	
	Methoxychlor	17.51	0	18.6	ug/kg	106				52	143	
	Endrin ketone	17.51	0	19.6	ug/kg	112				55	136	
	Endrin aldehyde	17.51	0	19.5	ug/kg	111				35	137	
	alpha-Chlordane	17.51	0	19.8	ug/kg	113				54	133	
	gamma-Chlordane	17.51	0	19.7	ug/kg	113				53	135	
Client Sample ID:	**OU4-PCS-TC-33-050725MS**											
Q1984-01MS (Column 2)	alpha-BHC	17.51	0	17.5	ug/kg	100				45	137	
	beta-BHC	17.51	0	17.4	ug/kg	99				50	136	
	delta-BHC	17.51	0	17.4	ug/kg	99				47	139	
	gamma-BHC (Lindane)	17.51	0	17.0	ug/kg	97				49	135	
	Heptachlor	17.51	0	17.6	ug/kg	101				47	136	
	Aldrin	17.51	0	17.2	ug/kg	98				45	136	
	Heptachlor epoxide	17.51	0	17.1	ug/kg	98				52	136	
	Endosulfan I	17.51	0	17.1	ug/kg	98				53	132	
	Dieldrin	17.51	0	17.1	ug/kg	98				56	136	
	4,4'-DDE	17.51	0	17.0	ug/kg	97				56	134	
	Endrin	17.51	0	17.2	ug/kg	98				57	140	
	Endosulfan II	17.51	0	16.9	ug/kg	97				53	134	
	4,4'-DDD	17.51	0	16.4	ug/kg	94				56	139	
	Endosulfan sulfate	17.51	0	16.4	ug/kg	94				55	136	
	4,4'-DDT	17.51	0	17.2	ug/kg	98				50	141	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1984 **Analytical Method:** 8081B

Client: Nobis Group **DataFile :** PD088559.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Q1984-01MS (Column 2)	Methoxychlor	17.51	0	16.7	ug/kg	95				52	143	
	Endrin ketone	17.51	0	16.9	ug/kg	97				55	136	
	Endrin aldehyde	17.51	0	17.0	ug/kg	97				35	137	
	alpha-Chlordane	17.51	0	17.1	ug/kg	98				54	133	
	gamma-Chlordane	17.51	0	17.2	ug/kg	98				53	135	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1984 **Analytical Method:** 8081B

Client: Nobis Group **DataFile :** PD088560.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**OU4-PCS-TC-33-050725MSD**											
Q1984-01MSD (Column 1)	alpha-BHC	17.5	0	19.9	ug/kg	114		1		45	137	20
	beta-BHC	17.5	0	19.5	ug/kg	111		0		50	136	20
	delta-BHC	17.5	0	20.0	ug/kg	114		0		47	139	20
	gamma-BHC (Lindane)	17.5	0	20.3	ug/kg	116		1		49	135	20
	Heptachlor	17.5	0	20.7	ug/kg	118		1		47	136	20
	Aldrin	17.5	0	20.4	ug/kg	117		3		45	136	20
	Heptachlor epoxide	17.5	0	19.8	ug/kg	113		0		52	136	20
	Endosulfan I	17.5	0	20.0	ug/kg	114		1		53	132	20
	Dieldrin	17.5	0	20.2	ug/kg	115		1		56	136	20
	4,4'-DDE	17.5	0	19.4	ug/kg	111		1		56	134	20
	Endrin	17.5	0	19.8	ug/kg	113		1		57	140	20
	Endosulfan II	17.5	0	19.2	ug/kg	110		1		53	134	20
	4,4'-DDD	17.5	0	20.3	ug/kg	116		1		56	139	20
	Endosulfan sulfate	17.5	0	19.4	ug/kg	111		1		55	136	20
	4,4'-DDT	17.5	0	19.4	ug/kg	111		1		50	141	20
	Methoxychlor	17.5	0	18.8	ug/kg	107		1		52	143	20
	Endrin ketone	17.5	0	19.7	ug/kg	113		1		55	136	20
	Endrin aldehyde	17.5	0	19.6	ug/kg	112		1		35	137	20
	alpha-Chlordane	17.5	0	19.9	ug/kg	114		1		54	133	20
	gamma-Chlordane	17.5	0	19.8	ug/kg	113		0		53	135	20
Client Sample ID:	**OU4-PCS-TC-33-050725MSD**											
Q1984-01MSD (Column 2)	alpha-BHC	17.5	0	17.8	ug/kg	102		2		45	137	20
	beta-BHC	17.5	0	17.8	ug/kg	102		3		50	136	20
	delta-BHC	17.5	0	17.6	ug/kg	101		2		47	139	20
	gamma-BHC (Lindane)	17.5	0	17.2	ug/kg	98		1		49	135	20
	Heptachlor	17.5	0	17.8	ug/kg	102		1		47	136	20
	Aldrin	17.5	0	17.5	ug/kg	100		2		45	136	20
	Heptachlor epoxide	17.5	0	17.3	ug/kg	99		1		52	136	20
	Endosulfan I	17.5	0	17.4	ug/kg	99		1		53	132	20
	Dieldrin	17.5	0	17.4	ug/kg	99		1		56	136	20
	4,4'-DDE	17.5	0	17.3	ug/kg	99		2		56	134	20
	Endrin	17.5	0	17.4	ug/kg	99		1		57	140	20
	Endosulfan II	17.5	0	16.8	ug/kg	96		1		53	134	20
	4,4'-DDD	17.5	0	16.7	ug/kg	95		1		56	139	20
	Endosulfan sulfate	17.5	0	16.9	ug/kg	97		3		55	136	20
	4,4'-DDT	17.5	0	17.1	ug/kg	98		0		50	141	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1984 **Analytical Method:** 8081B

Client: Nobis Group **DataFile :** PD088560.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Q1984-01MSD (Column 2)	Methoxychlor	17.5	0	16.8	ug/kg	96		1		52	143	20
	Endrin ketone	17.5	0	17.2	ug/kg	98		1		55	136	20
	Endrin aldehyde	17.5	0	17.0	ug/kg	97		0		35	137	20
	alpha-Chlordane	17.5	0	17.3	ug/kg	99		1		54	133	20
	gamma-Chlordane	17.5	0	17.3	ug/kg	99		1		53	135	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1984 **Analytical Method:** 8081B

Client: Nobis Group **Datafile :** PD088526.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167959BS (Column 1)	alpha-BHC	16.65	17.7	ug/kg	106				45	137	
	beta-BHC	16.65	17.3	ug/kg	104				50	136	
	delta-BHC	16.65	18.0	ug/kg	108				47	139	
	gamma-BHC (Lindane)	16.65	17.5	ug/kg	105				49	135	
	Heptachlor	16.65	18.0	ug/kg	108				47	136	
	Aldrin	16.65	18.1	ug/kg	109				45	136	
	Heptachlor epoxide	16.65	18.1	ug/kg	109				52	136	
	Endosulfan I	16.65	18.2	ug/kg	109				53	132	
	Dieldrin	16.65	18.3	ug/kg	110				56	136	
	4,4'-DDE	16.65	17.7	ug/kg	106				56	134	
	Endrin	16.65	17.4	ug/kg	105				57	140	
	Endosulfan II	16.65	17.6	ug/kg	106				53	134	
	4,4'-DDD	16.65	18.5	ug/kg	111				56	139	
	Endosulfan sulfate	16.65	17.9	ug/kg	108				55	136	
	4,4'-DDT	16.65	17.3	ug/kg	104				50	141	
	Methoxychlor	16.65	16.6	ug/kg	100				52	143	
	Endrin ketone	16.65	18.0	ug/kg	108				55	136	
	Endrin aldehyde	16.65	17.8	ug/kg	107				35	137	
	alpha-Chlordane	16.65	18.1	ug/kg	109				54	133	
	gamma-Chlordane	16.65	18.1	ug/kg	109				53	135	
PB167959BS (Column 2)	alpha-BHC	16.65	16.1	ug/kg	97				45	137	
	beta-BHC	16.65	16.0	ug/kg	96				50	136	
	delta-BHC	16.65	16.2	ug/kg	97				47	139	
	gamma-BHC (Lindane)	16.65	15.9	ug/kg	95				49	135	
	Heptachlor	16.65	15.8	ug/kg	95				47	136	
	Aldrin	16.65	16.2	ug/kg	97				45	136	
	Heptachlor epoxide	16.65	16.0	ug/kg	96				52	136	
	Endosulfan I	16.65	15.9	ug/kg	95				53	132	
	Dieldrin	16.65	16.0	ug/kg	96				56	136	
	4,4'-DDE	16.65	16.1	ug/kg	97				56	134	
	Endrin	16.65	15.4	ug/kg	92				57	140	
	Endosulfan II	16.65	15.8	ug/kg	95				53	134	
	4,4'-DDD	16.65	16.4	ug/kg	98				56	139	
	Endosulfan sulfate	16.65	15.7	ug/kg	94				55	136	
	4,4'-DDT	16.65	15.3	ug/kg	92				50	141	
	Methoxychlor	16.65	15.0	ug/kg	90				52	143	
	Endrin ketone	16.65	15.8	ug/kg	95				55	136	
	Endrin aldehyde	16.65	15.8	ug/kg	95				35	137	
	alpha-Chlordane	16.65	15.9	ug/kg	95				54	133	
	gamma-Chlordane	16.65	16.0	ug/kg	96				53	135	

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167959BL

Lab Name: CHEMTECH Contract: NOBI03

Lab Code: CHEM Case No.: Q1984 SAS No.: Q1984 SDG NO.: Q1984

Lab Sample ID: PB167959BL Lab File ID: PD088525.D

Matrix: (soil/water) Solid Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N Date Extracted: 05/13/2025

Date Analyzed (1): 05/13/2025 Date Analyzed (2): 05/13/2025

Time Analyzed (1): 17:02 Time Analyzed (2): 17:02

Instrument ID (1): ECD_D Instrument ID (2): ECD_D

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
PB167959BS	PB167959BS	PD088526.D	05/13/2025	05/13/2025
OU4-PCS-TC-33-050725	Q1984-01	PD088558.D	05/15/2025	05/15/2025
OU4-PCS-TC-33-050725MS	Q1984-01MS	PD088559.D	05/15/2025	05/15/2025
OU4-PCS-TC-33-050725MSD	Q1984-01MSD	PD088560.D	05/15/2025	05/15/2025
OU4-PCS-TC-34-050725	Q1984-03	PD088561.D	05/15/2025	05/15/2025
OU4-PCS-TC-35-050725	Q1984-05	PD088562.D	05/15/2025	05/15/2025
OU4-TS-24-050725	Q1984-07	PD088563.D	05/15/2025	05/15/2025
OU4-TS-25-050725	Q1984-09	PD088564.D	05/15/2025	05/15/2025
OU4-TS-26-050725	Q1984-11	PD088569.D	05/15/2025	05/15/2025
OU4-TS-27-050725	Q1984-13	PD088570.D	05/15/2025	05/15/2025
OU4-TS-28-050725	Q1984-15	PD088571.D	05/15/2025	05/15/2025

COMMENTS:

SAMPLE DATA

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-PCS-TC-33-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-01	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	95.1 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088558.D	1	05/13/25 08:30	05/15/25 12:38	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
319-84-6	alpha-BHC	0.00035	U	0.00014	0.00035	0.0018	mg/Kg
319-85-7	beta-BHC	0.00087	U	0.00019	0.00087	0.0018	mg/Kg
319-86-8	delta-BHC	0.00087	U	0.00041	0.00087	0.0018	mg/Kg
58-89-9	gamma-BHC (Lindane)	0.00035	U	0.00015	0.00035	0.0018	mg/Kg
76-44-8	Heptachlor	0.00035	U	0.00013	0.00035	0.0018	mg/Kg
309-00-2	Aldrin	0.00035	U	0.00013	0.00035	0.0018	mg/Kg
1024-57-3	Heptachlor epoxide	0.00087	U	0.00020	0.00087	0.0018	mg/Kg
959-98-8	Endosulfan I	0.00035	U	0.00015	0.00035	0.0018	mg/Kg
60-57-1	Dieldrin	0.00035	U	0.00015	0.00035	0.0018	mg/Kg
72-55-9	4,4-DDE	0.00035	U	0.00015	0.00035	0.0018	mg/Kg
72-20-8	Endrin	0.00035	U	0.00015	0.00035	0.0018	mg/Kg
33213-65-9	Endosulfan II	0.00087	U	0.00030	0.00087	0.0018	mg/Kg
72-54-8	4,4-DDD	0.00035	U	0.00016	0.00035	0.0018	mg/Kg
1031-07-8	Endosulfan Sulfate	0.00035	U	0.00014	0.00035	0.0018	mg/Kg
50-29-3	4,4-DDT	0.00035	U	0.00015	0.00035	0.0018	mg/Kg
72-43-5	Methoxychlor	0.00087	U	0.00039	0.00087	0.0018	mg/Kg
53494-70-5	Endrin ketone	0.00087	U	0.00020	0.00087	0.0018	mg/Kg
7421-93-4	Endrin aldehyde	0.00087	U	0.00039	0.00087	0.0018	mg/Kg
5103-71-9	alpha-Chlordane	0.00035	U	0.00013	0.00035	0.0018	mg/Kg
5103-74-2	gamma-Chlordane	0.00035	U	0.00016	0.00035	0.0018	mg/Kg
8001-35-2	Toxaphene	0.018	U	0.0057	0.018	0.035	mg/Kg
SURROGATES							
2051-24-3	Decachlorobiphenyl	21.9		55 - 130		109%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.9		42 - 129		115%	SPK: 20

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-PCS-TC-33-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-01	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	95.1 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088558.D	1	05/13/25 08:30	05/15/25 12:38	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088558.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 12:38
Operator : AR\AJ
Sample : Q1984-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:17:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.558	2.881	45832209	316.0E6	22.946	21.610
28)	SA Decachlor...	9.084	8.077	72380644	354.5E6	21.880	19.182
	Target Compounds						

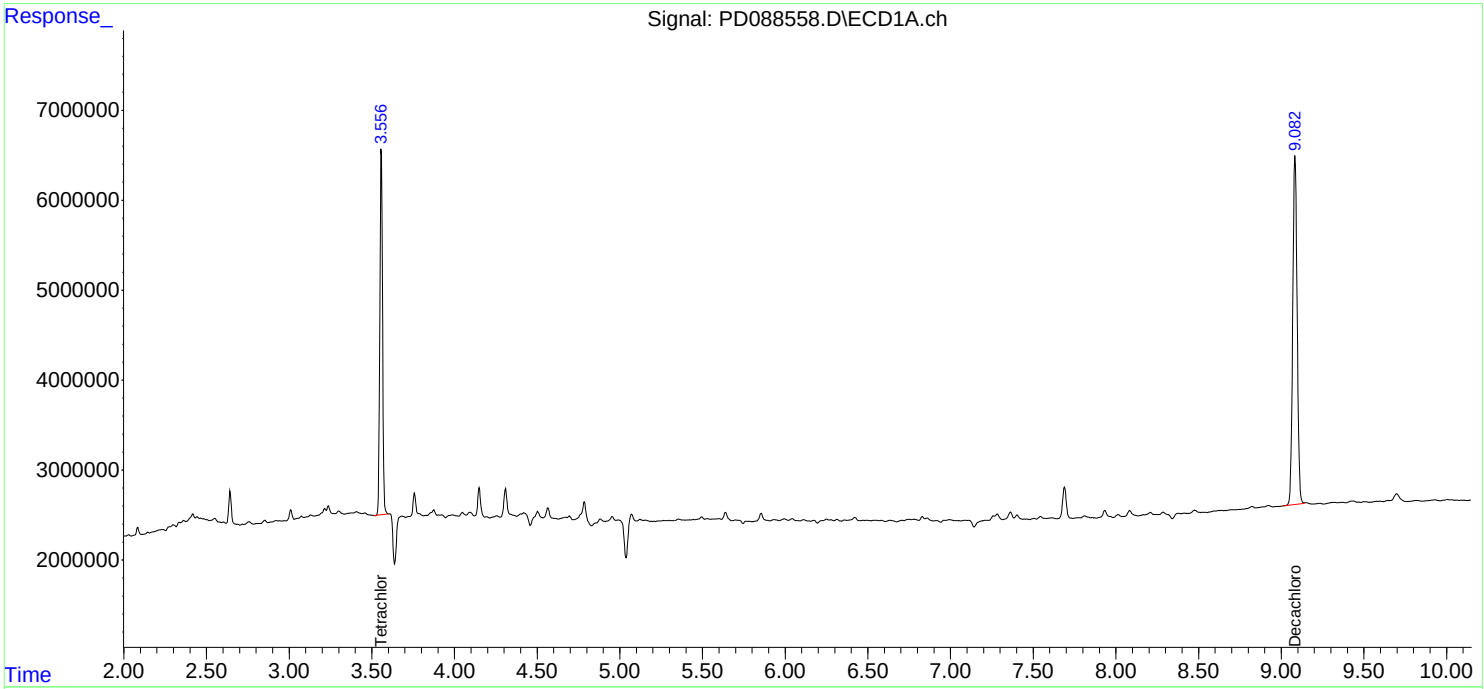
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

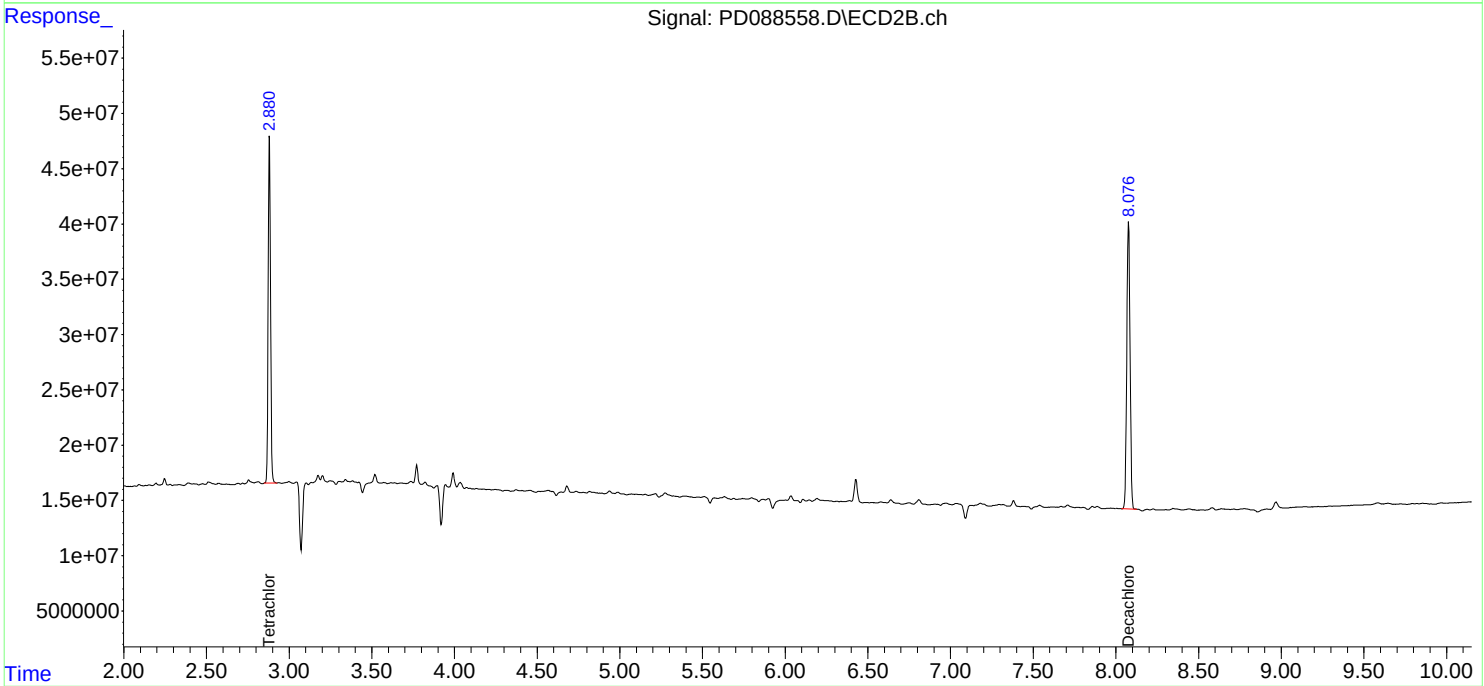
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088558.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 12:38
Operator : AR\AJ
Sample : Q1984-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

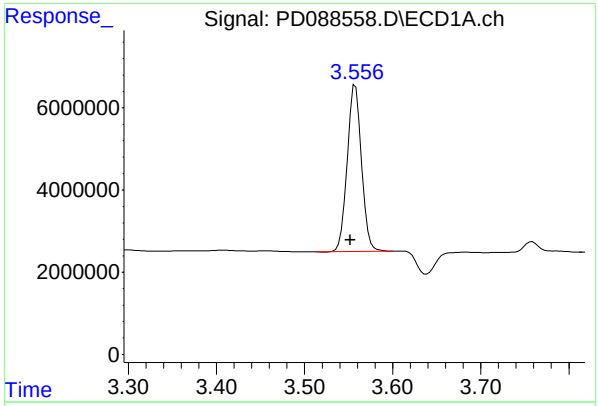
Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:17:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



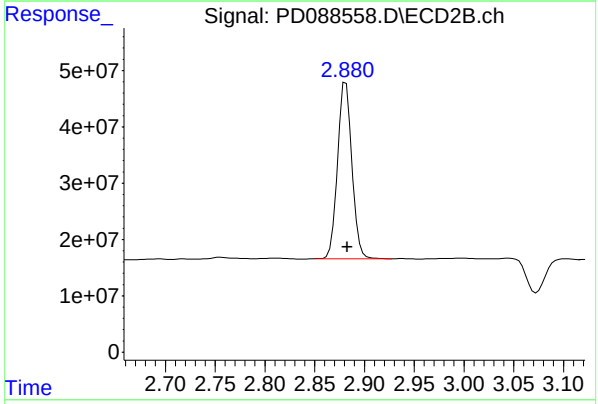




#1 Tetrachloro-m-xylene

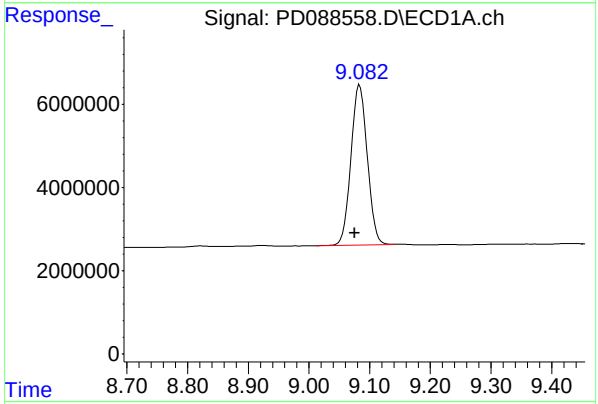
R.T.: 3.558 min
Delta R.T.: 0.006 min
Response: 45832209
Conc: 22.95 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725



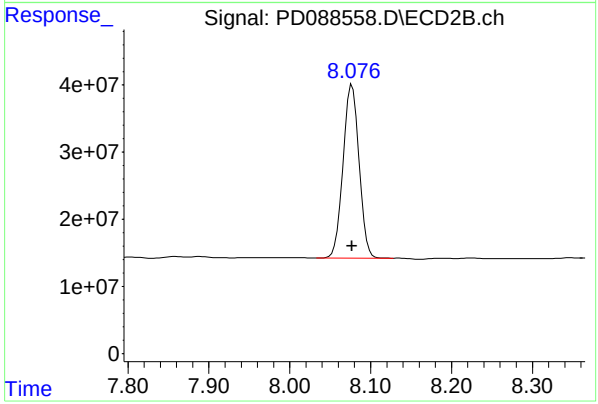
#1 Tetrachloro-m-xylene

R.T.: 2.881 min
Delta R.T.: -0.002 min
Response: 315980190
Conc: 21.61 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.084 min
Delta R.T.: 0.009 min
Response: 72380644
Conc: 21.88 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.077 min
Delta R.T.: 0.000 min
Response: 354482589
Conc: 19.18 ng/ml

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-PCS-TC-34-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-03	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	95.7 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088561.D	1	05/13/25 08:30	05/15/25 13:19	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
319-84-6	alpha-BHC	0.00034	U	0.00014	0.00034	0.0018	mg/Kg
319-85-7	beta-BHC	0.00087	U	0.00019	0.00087	0.0018	mg/Kg
319-86-8	delta-BHC	0.00087	U	0.00041	0.00087	0.0018	mg/Kg
58-89-9	gamma-BHC (Lindane)	0.00034	U	0.00015	0.00034	0.0018	mg/Kg
76-44-8	Heptachlor	0.00034	U	0.00013	0.00034	0.0018	mg/Kg
309-00-2	Aldrin	0.00034	U	0.00013	0.00034	0.0018	mg/Kg
1024-57-3	Heptachlor epoxide	0.00087	U	0.00020	0.00087	0.0018	mg/Kg
959-98-8	Endosulfan I	0.00034	U	0.00015	0.00034	0.0018	mg/Kg
60-57-1	Dieldrin	0.00034	U	0.00015	0.00034	0.0018	mg/Kg
72-55-9	4,4-DDE	0.00034	U	0.00015	0.00034	0.0018	mg/Kg
72-20-8	Endrin	0.00034	U	0.00015	0.00034	0.0018	mg/Kg
33213-65-9	Endosulfan II	0.00087	U	0.00030	0.00087	0.0018	mg/Kg
72-54-8	4,4-DDD	0.00034	U	0.00016	0.00034	0.0018	mg/Kg
1031-07-8	Endosulfan Sulfate	0.00034	U	0.00014	0.00034	0.0018	mg/Kg
50-29-3	4,4-DDT	0.00034	U	0.00015	0.00034	0.0018	mg/Kg
72-43-5	Methoxychlor	0.00087	U	0.00039	0.00087	0.0018	mg/Kg
53494-70-5	Endrin ketone	0.00087	U	0.00020	0.00087	0.0018	mg/Kg
7421-93-4	Endrin aldehyde	0.00087	U	0.00039	0.00087	0.0018	mg/Kg
5103-71-9	alpha-Chlordane	0.00034	U	0.00013	0.00034	0.0018	mg/Kg
5103-74-2	gamma-Chlordane	0.00034	U	0.00016	0.00034	0.0018	mg/Kg
8001-35-2	Toxaphene	0.018	U	0.0056	0.018	0.034	mg/Kg
SURROGATES							
2051-24-3	Decachlorobiphenyl	20.0		55 - 130		100%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.1		42 - 129		111%	SPK: 20

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-PCS-TC-34-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-03	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	95.7 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088561.D	1	05/13/25 08:30	05/15/25 13:19	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088561.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 13:19
Operator : AR\AJ
Sample : Q1984-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-34-050725

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:18:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.551	2.882	44158508	304.7E6	22.108	20.838
28)	SA Decachlor...	9.076	8.075	66168765	326.8E6	20.002	17.685
	Target Compounds						

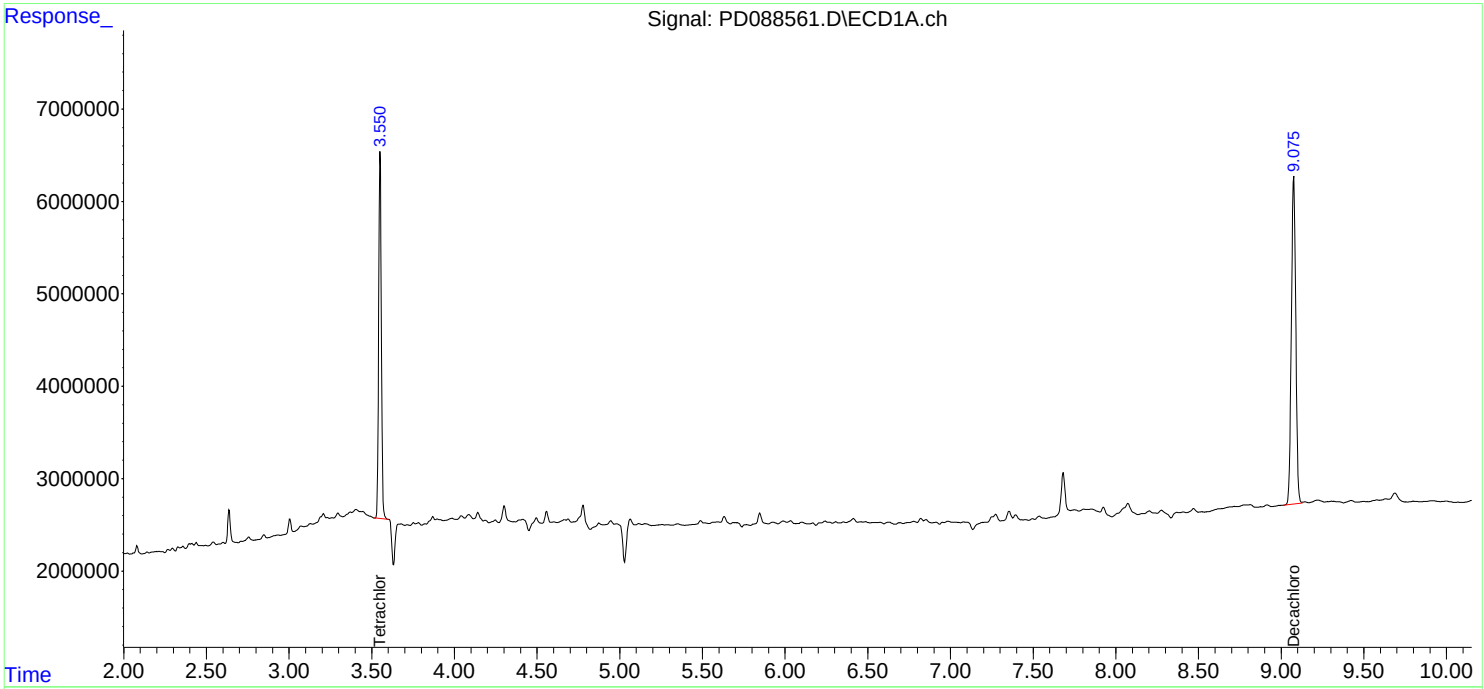
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

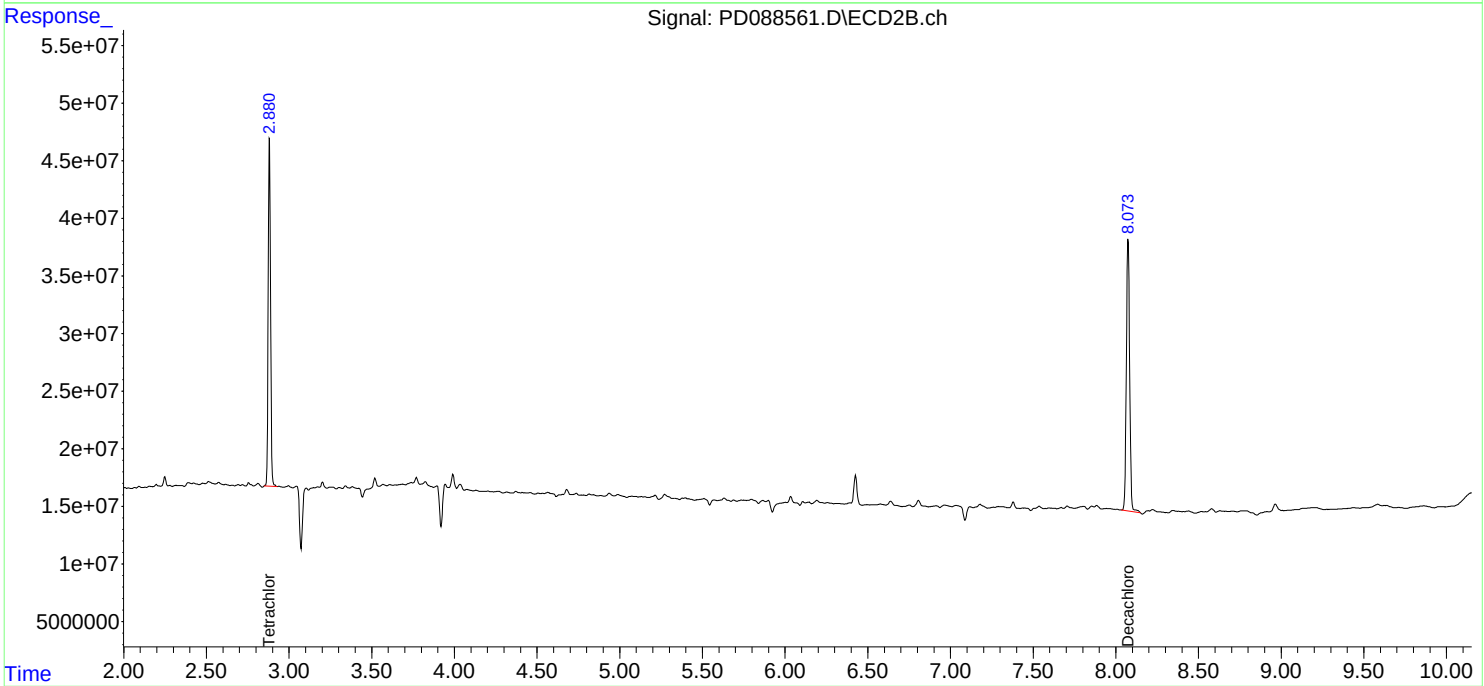
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088561.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 13:19
Operator : AR\AJ
Sample : Q1984-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

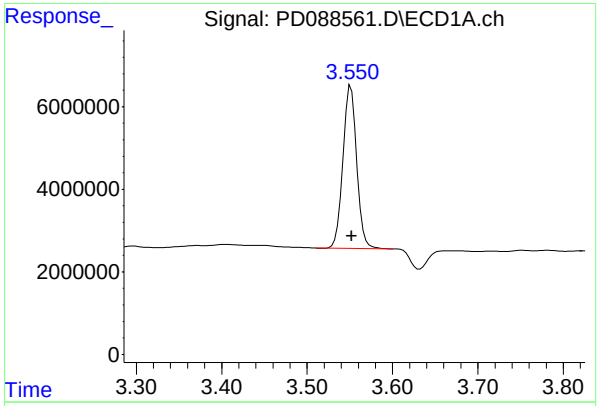
Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-34-050725

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:18:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



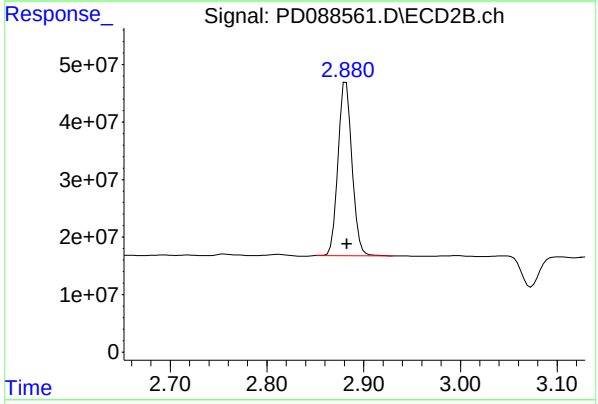




#1 Tetrachloro-m-xylene

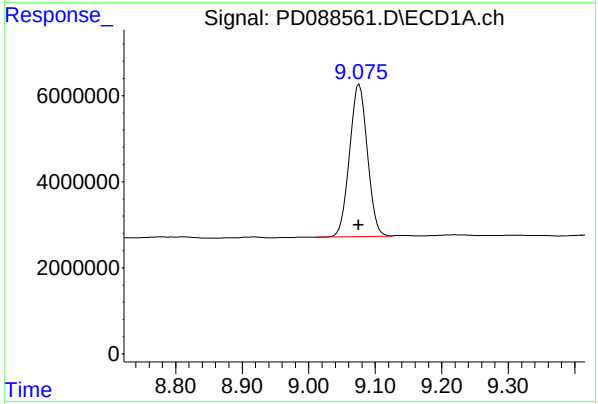
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 44158508
Conc: 22.11 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-34-050725



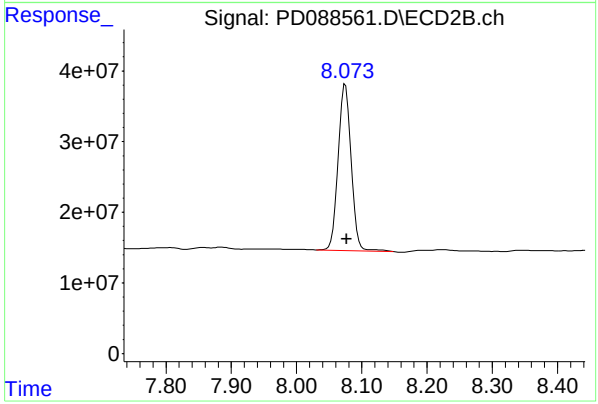
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: -0.001 min
Response: 304689745
Conc: 20.84 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.076 min
Delta R.T.: 0.001 min
Response: 66168765
Conc: 20.00 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.002 min
Response: 326807055
Conc: 17.68 ng/ml

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-PCS-TC-35-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-05	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	94.4 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088562.D	1	05/13/25 08:30	05/15/25 13:33	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
319-84-6	alpha-BHC	0.00035	U	0.00014	0.00035	0.0018	mg/Kg
319-85-7	beta-BHC	0.00088	U	0.00019	0.00088	0.0018	mg/Kg
319-86-8	delta-BHC	0.00088	U	0.00041	0.00088	0.0018	mg/Kg
58-89-9	gamma-BHC (Lindane)	0.00035	U	0.00015	0.00035	0.0018	mg/Kg
76-44-8	Heptachlor	0.00035	U	0.00013	0.00035	0.0018	mg/Kg
309-00-2	Aldrin	0.00035	U	0.00013	0.00035	0.0018	mg/Kg
1024-57-3	Heptachlor epoxide	0.00088	U	0.00020	0.00088	0.0018	mg/Kg
959-98-8	Endosulfan I	0.00035	U	0.00015	0.00035	0.0018	mg/Kg
60-57-1	Dieldrin	0.00035	U	0.00015	0.00035	0.0018	mg/Kg
72-55-9	4,4-DDE	0.00035	U	0.00015	0.00035	0.0018	mg/Kg
72-20-8	Endrin	0.00035	U	0.00015	0.00035	0.0018	mg/Kg
33213-65-9	Endosulfan II	0.00088	U	0.00031	0.00088	0.0018	mg/Kg
72-54-8	4,4-DDD	0.00035	U	0.00016	0.00035	0.0018	mg/Kg
1031-07-8	Endosulfan Sulfate	0.00035	U	0.00014	0.00035	0.0018	mg/Kg
50-29-3	4,4-DDT	0.00035	U	0.00015	0.00035	0.0018	mg/Kg
72-43-5	Methoxychlor	0.00088	U	0.00039	0.00088	0.0018	mg/Kg
53494-70-5	Endrin ketone	0.00088	U	0.00020	0.00088	0.0018	mg/Kg
7421-93-4	Endrin aldehyde	0.00088	U	0.00039	0.00088	0.0018	mg/Kg
5103-71-9	alpha-Chlordane	0.00035	U	0.00013	0.00035	0.0018	mg/Kg
5103-74-2	gamma-Chlordane	0.00035	U	0.00016	0.00035	0.0018	mg/Kg
8001-35-2	Toxaphene	0.018	U	0.0057	0.018	0.035	mg/Kg
SURROGATES							
2051-24-3	Decachlorobiphenyl	21.1		55 - 130		106%	SPK: 20
877-09-8	Tetrachloro-m-xylene	23.2		42 - 129		116%	SPK: 20

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-PCS-TC-35-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-05	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	94.4 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088562.D	1	05/13/25 08:30	05/15/25 13:33	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088562.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 13:33
Operator : AR\AJ
Sample : Q1984-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-35-050725

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:18:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.551	2.882	46274670	319.4E6	23.167	21.847
28)	SA Decachlor...	9.076	8.075	69879209	346.0E6	21.124	18.725
	Target Compounds						

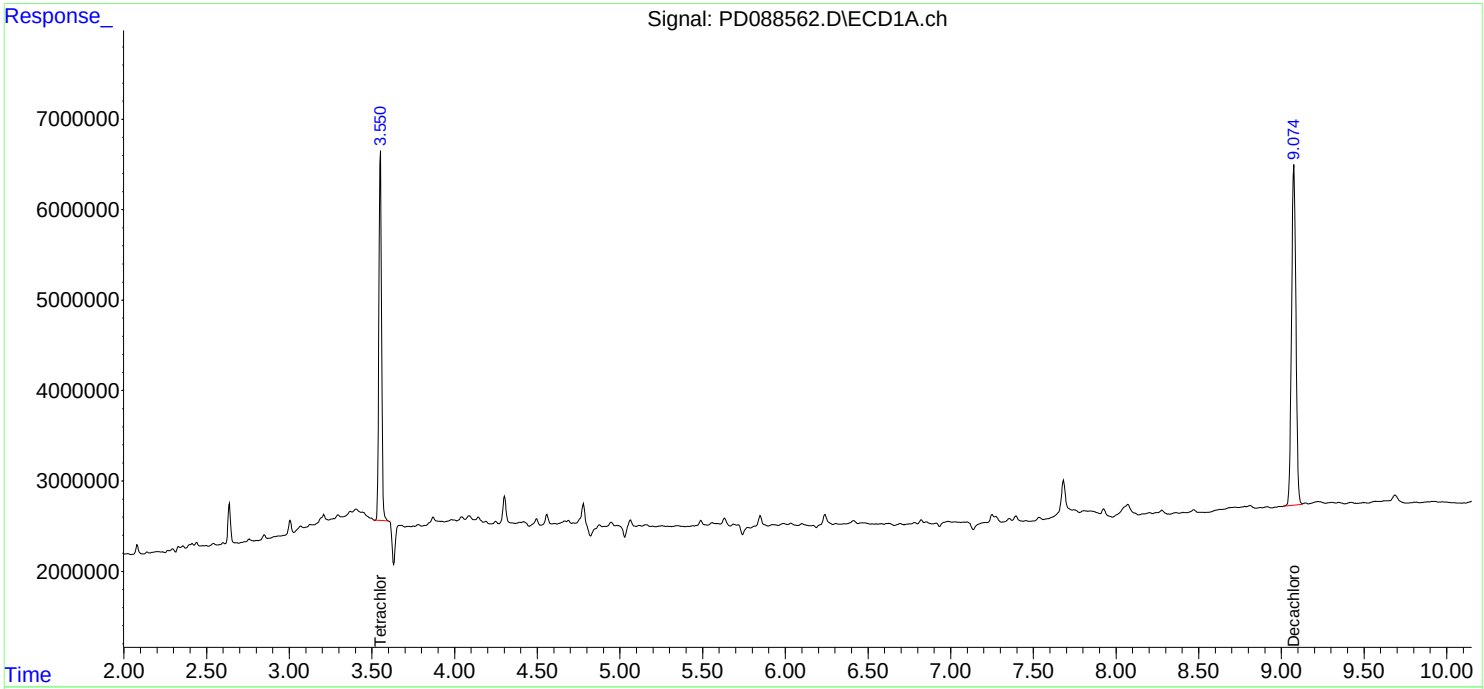
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

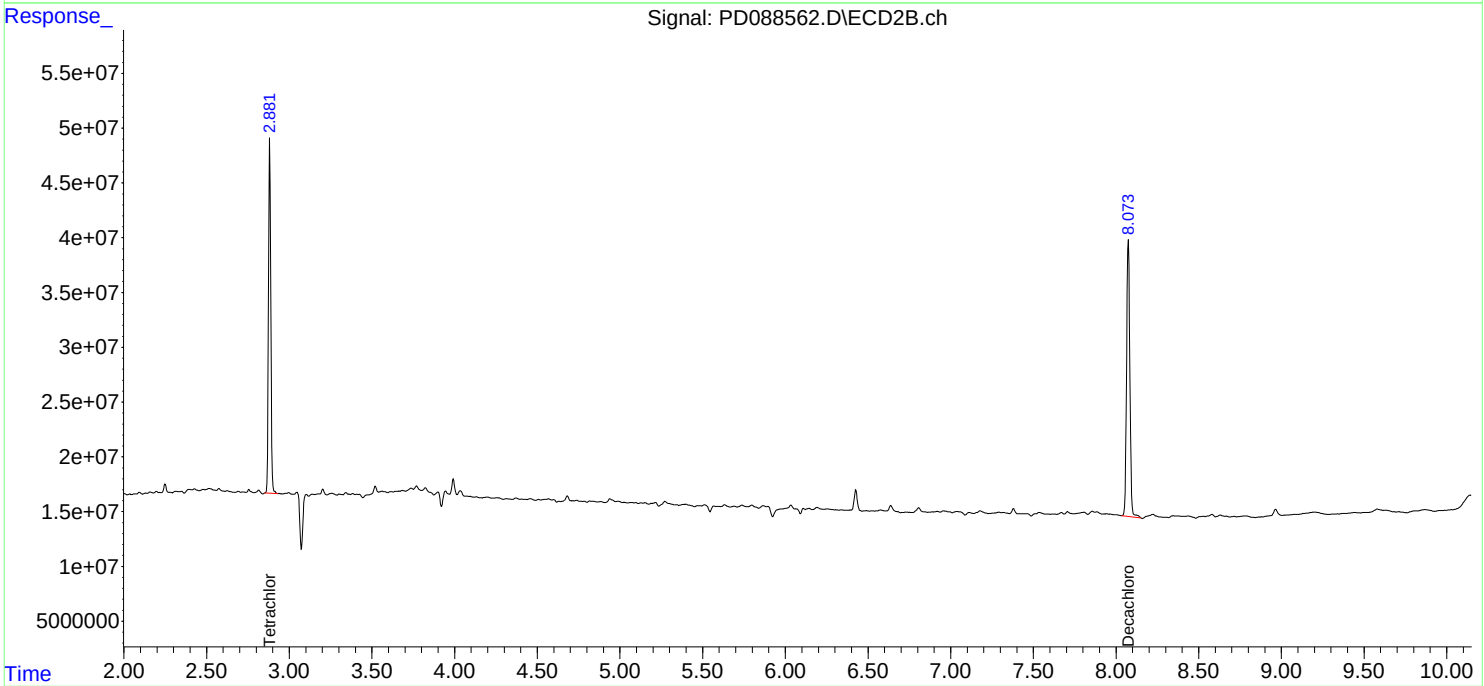
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088562.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 13:33
Operator : AR\AJ
Sample : Q1984-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

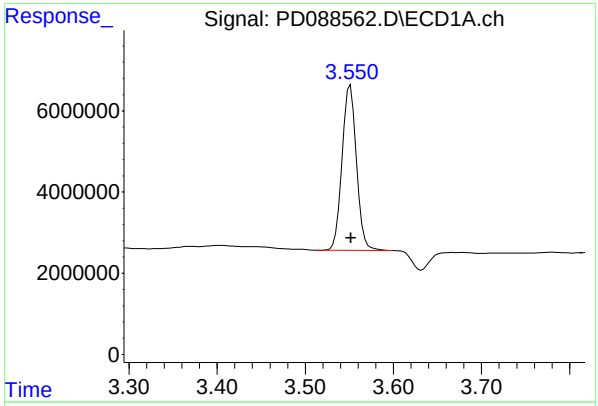
Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-35-050725

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:18:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



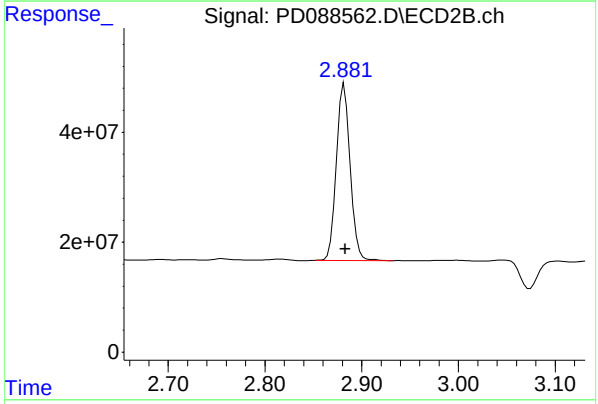




#1 Tetrachloro-m-xylene

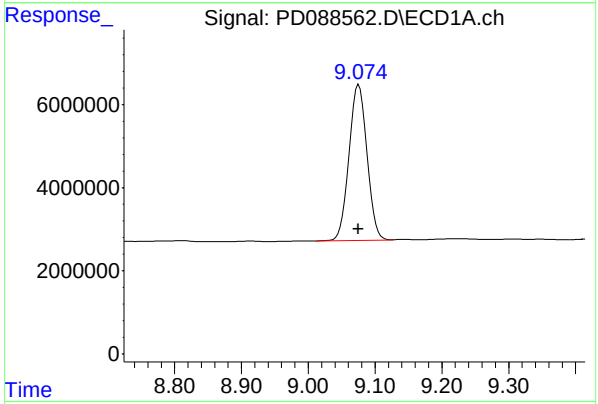
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 46274670
Conc: 23.17 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-35-050725



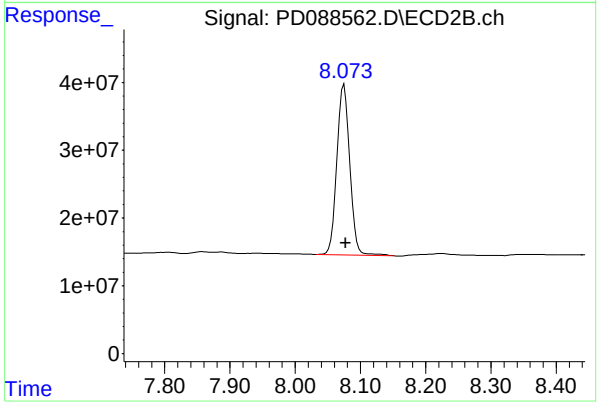
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 319440551
Conc: 21.85 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.076 min
Delta R.T.: 0.000 min
Response: 69879209
Conc: 21.12 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.002 min
Response: 346030603
Conc: 18.73 ng/ml

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-24-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-07	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	69.7 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088563.D	1	05/13/25 08:30	05/15/25 13:46	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
319-84-6	alpha-BHC	0.00047	U	0.00019	0.00047	0.0024	mg/Kg
319-85-7	beta-BHC	0.0012	U	0.00026	0.0012	0.0024	mg/Kg
319-86-8	delta-BHC	0.0012	U	0.00056	0.0012	0.0024	mg/Kg
58-89-9	gamma-BHC (Lindane)	0.00047	U	0.00020	0.00047	0.0024	mg/Kg
76-44-8	Heptachlor	0.00047	U	0.00017	0.00047	0.0024	mg/Kg
309-00-2	Aldrin	0.00047	U	0.00017	0.00047	0.0024	mg/Kg
1024-57-3	Heptachlor epoxide	0.0012	U	0.00027	0.0012	0.0024	mg/Kg
959-98-8	Endosulfan I	0.00047	U	0.00020	0.00047	0.0024	mg/Kg
60-57-1	Dieldrin	0.00053	J	0.00020	0.00047	0.0024	mg/Kg
72-55-9	4,4-DDE	0.0010	J	0.00020	0.00047	0.0024	mg/Kg
72-20-8	Endrin	0.00027	J	0.00020	0.00047	0.0024	mg/Kg
33213-65-9	Endosulfan II	0.0012	U	0.00042	0.0012	0.0024	mg/Kg
72-54-8	4,4-DDD	0.00047	U	0.00021	0.00047	0.0024	mg/Kg
1031-07-8	Endosulfan Sulfate	0.00047	U	0.00019	0.00047	0.0024	mg/Kg
50-29-3	4,4-DDT	0.00047	U	0.00020	0.00047	0.0024	mg/Kg
72-43-5	Methoxychlor	0.0012	U	0.00053	0.0012	0.0024	mg/Kg
53494-70-5	Endrin ketone	0.0012	U	0.00027	0.0012	0.0024	mg/Kg
7421-93-4	Endrin aldehyde	0.0012	U	0.00053	0.0012	0.0024	mg/Kg
5103-71-9	alpha-Chlordane	0.0016	JP	0.00017	0.00047	0.0024	mg/Kg
5103-74-2	gamma-Chlordane	0.0015	J	0.00021	0.00047	0.0024	mg/Kg
8001-35-2	Toxaphene	0.024	U	0.0077	0.024	0.047	mg/Kg
SURROGATES							
2051-24-3	Decachlorobiphenyl	14.4		55 - 130		72%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.6		42 - 129		98%	SPK: 20

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-24-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-07	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	69.7 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088563.D	1	05/13/25 08:30	05/15/25 13:46	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_D\Data\PD051525\
Data File : PD088563.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 13:46
Operator : AR\AJ
Sample : Q1984-07
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
OU4-TS-24-050725

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:18:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.551	2.882	39114841	266.7E6	19.583	18.241
28)	SA Decachlor...	9.074	8.072	47762026	226.1E6	14.438m	12.235m
	Target Compounds						
10)	B gamma-Chl...	5.946	5.125	9116097	61813488	2.517m	3.046m
11)	B alpha-Chl...	6.030	5.191	12415615	45069401	3.440m	2.299m#
12)	B 4,4'-DDE	6.196	5.376	5700157	42305408	1.728m	2.148m
13)	MA Dieldrin	6.350	5.511	3856288	22096871	1.081m	1.109m
14)	MA Endrin	6.577	5.793	1692211	8243500	0.567m	0.453m

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

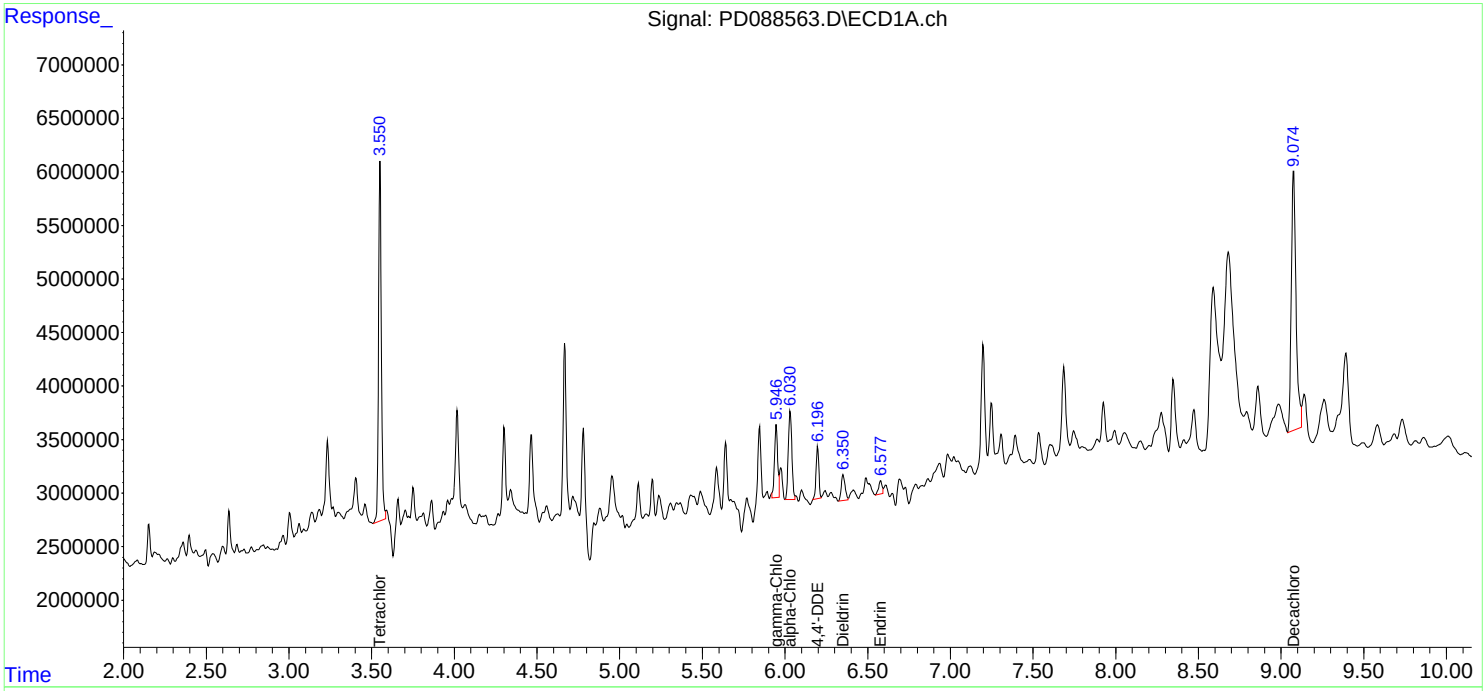
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088563.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 13:46
Operator : AR\AJ
Sample : Q1984-07
Misc :
ALS Vial : 14 Sample Multiplier: 1

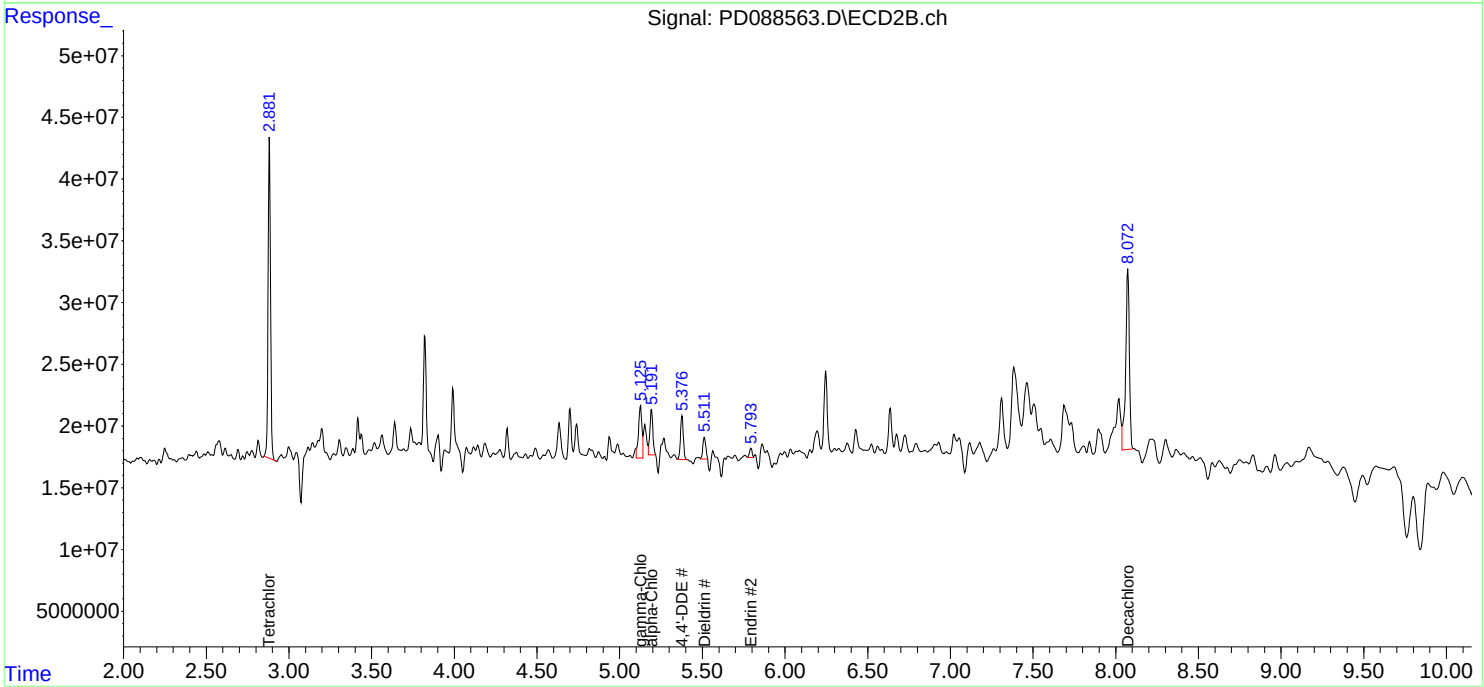
Instrument :
ECD_D
ClientSampleId :
OU4-TS-24-050725

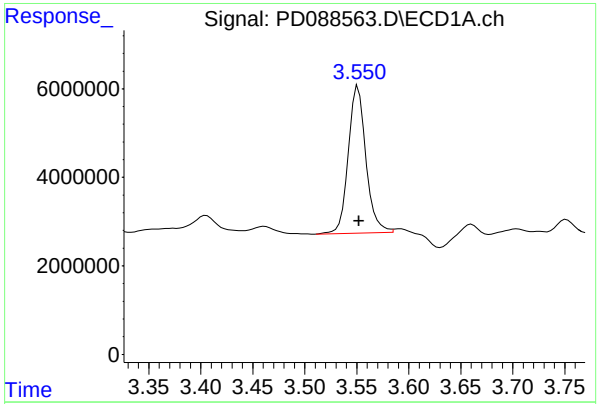
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:18:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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







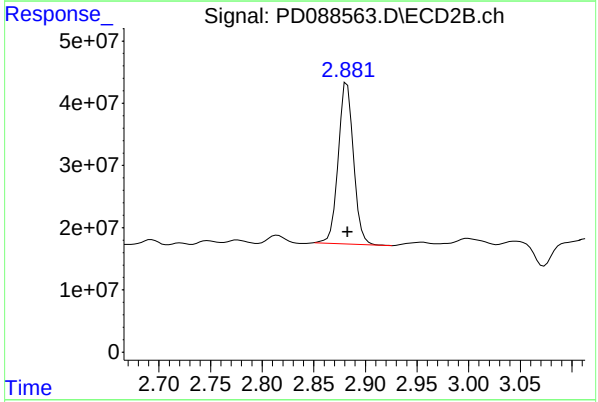
#1 Tetrachloro-m-xylene

R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 39114841
Conc: 19.58 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-24-050725

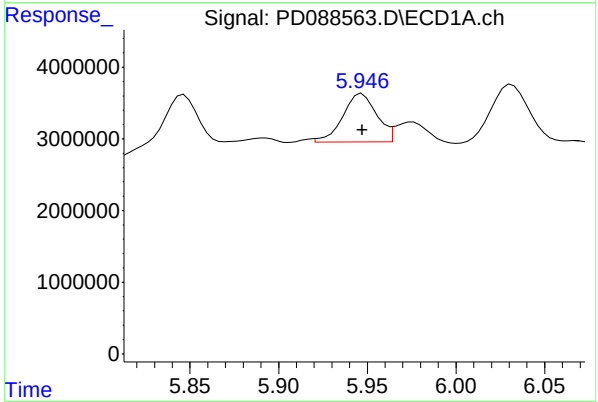
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



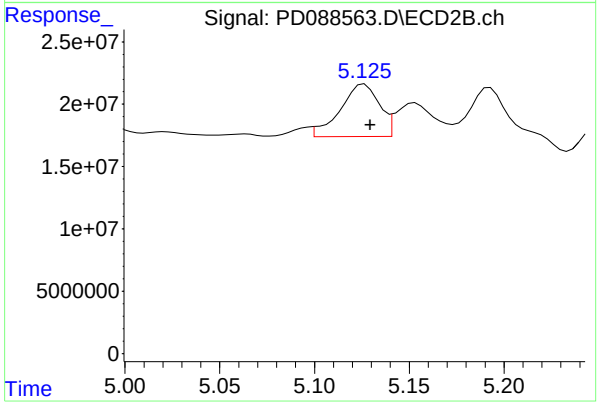
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 266712840
Conc: 18.24 ng/ml



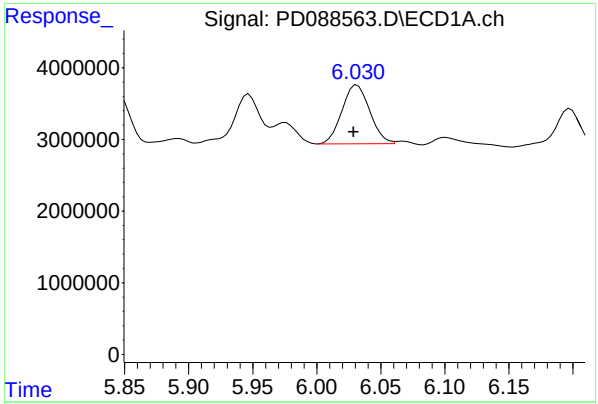
#10 gamma-Chlordane

R.T.: 5.946 min
Delta R.T.: -0.001 min
Response: 9116097
Conc: 2.52 ng/ml m



#10 gamma-Chlordane

R.T.: 5.125 min
Delta R.T.: -0.004 min
Response: 61813488
Conc: 3.05 ng/ml m



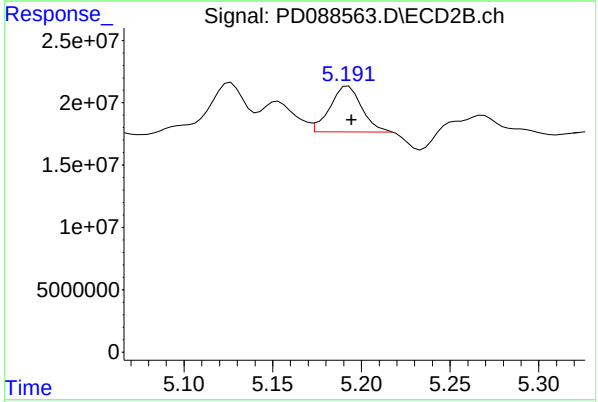
#11 alpha-Chlordane

R.T.: 6.030 min
Delta R.T.: 0.002 mi
Response: 12415615
Conc: 3.44 ng/m

Instrument :
ECD_D
ClientSampleId :
OU4-TS-24-050725

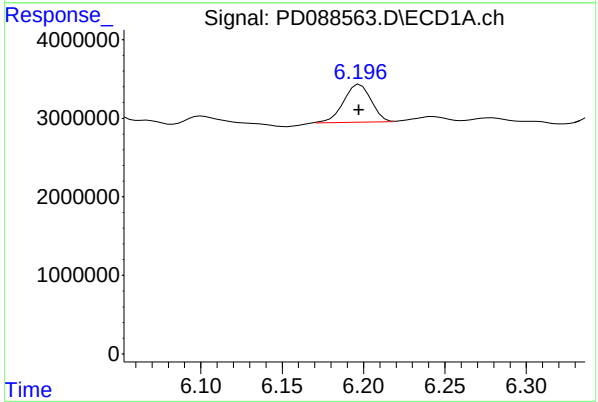
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



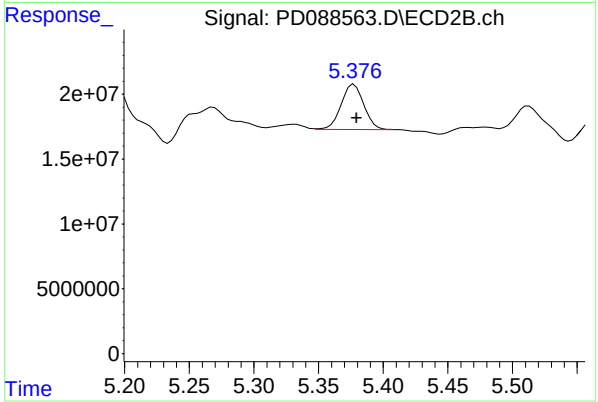
#11 alpha-Chlordane

R.T.: 5.191 min
Delta R.T.: -0.003 min
Response: 45069401
Conc: 2.30 ng/ml m



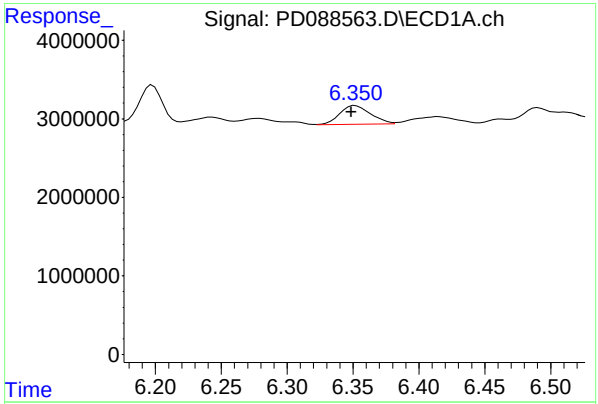
#12 4,4'-DDE

R.T.: 6.196 min
Delta R.T.: 0.000 min
Response: 5700157
Conc: 1.73 ng/ml m



#12 4,4'-DDE

R.T.: 5.376 min
Delta R.T.: -0.003 min
Response: 42305408
Conc: 2.15 ng/ml m



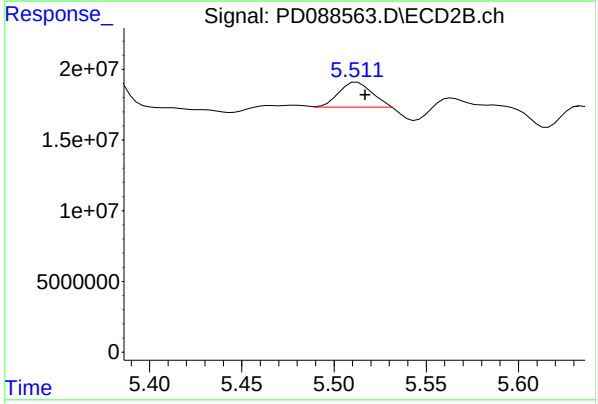
#13 Dieldrin

R.T.: 6.350 min
Delta R.T.: 0.001 mi
Response: 3856288
Conc: 1.08 ng/m

Instrument :
ECD_D
ClientSampleId :
OU4-TS-24-050725

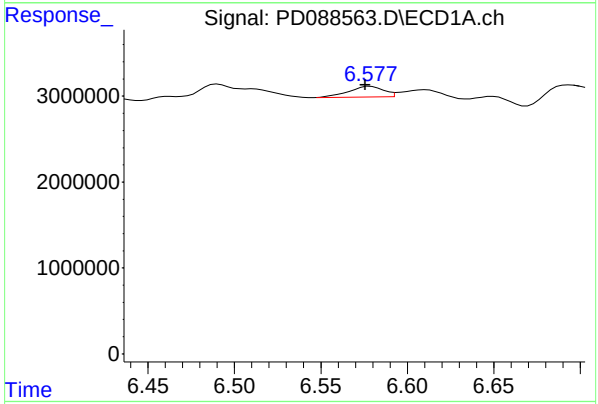
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



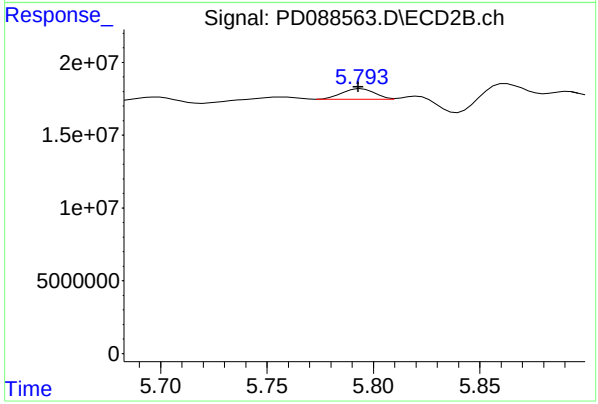
#13 Dieldrin

R.T.: 5.511 min
Delta R.T.: -0.006 min
Response: 22096871
Conc: 1.11 ng/ml m



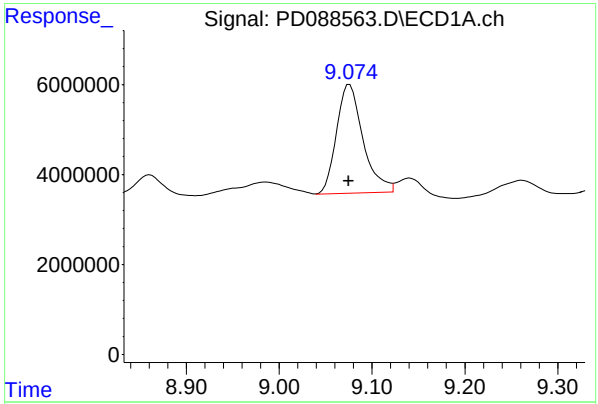
#14 Endrin

R.T.: 6.577 min
Delta R.T.: 0.001 min
Response: 1692211
Conc: 0.57 ng/ml m



#14 Endrin

R.T.: 5.793 min
Delta R.T.: 0.000 min
Response: 8243500
Conc: 0.45 ng/ml m



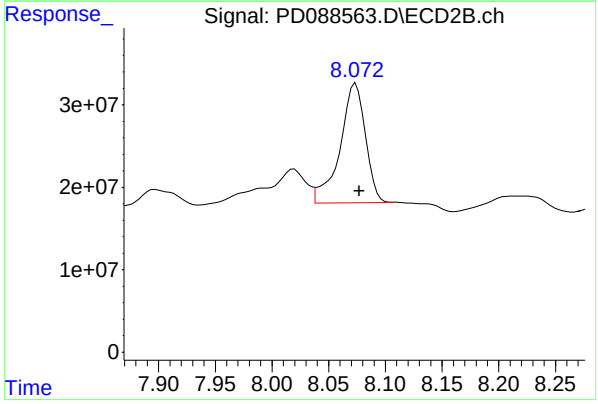
#28 Decachlorobiphenyl

R.T.: 9.074 min
Delta R.T.: 0.000 mi
Response: 47762026
Conc: 14.44 ng/m

Instrument :
ECD_D
ClientSampleId :
OU4-TS-24-050725

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



#28 Decachlorobiphenyl

R.T.: 8.072 min
Delta R.T.: -0.005 min
Response: 226098750
Conc: 12.24 ng/ml m

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-25-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-09	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	68 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088564.D	1	05/13/25 08:30	05/15/25 14:00	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
319-84-6	alpha-BHC	0.00049	U	0.00019	0.00048	0.0025	mg/Kg
319-85-7	beta-BHC	0.0012	U	0.00026	0.0012	0.0025	mg/Kg
319-86-8	delta-BHC	0.0012	U	0.00057	0.0012	0.0025	mg/Kg
58-89-9	gamma-BHC (Lindane)	0.00049	U	0.00021	0.00048	0.0025	mg/Kg
76-44-8	Heptachlor	0.00049	U	0.00018	0.00048	0.0025	mg/Kg
309-00-2	Aldrin	0.00049	U	0.00018	0.00048	0.0025	mg/Kg
1024-57-3	Heptachlor epoxide	0.0012	U	0.00028	0.0012	0.0025	mg/Kg
959-98-8	Endosulfan I	0.00049	U	0.00021	0.00048	0.0025	mg/Kg
60-57-1	Dieldrin	0.00047	J	0.00021	0.00048	0.0025	mg/Kg
72-55-9	4,4-DDE	0.0010	J	0.00021	0.00048	0.0025	mg/Kg
72-20-8	Endrin	0.00049	U	0.00021	0.00048	0.0025	mg/Kg
33213-65-9	Endosulfan II	0.0012	U	0.00043	0.0012	0.0025	mg/Kg
72-54-8	4,4-DDD	0.00049	U	0.00022	0.00048	0.0025	mg/Kg
1031-07-8	Endosulfan Sulfate	0.00049	U	0.00019	0.00048	0.0025	mg/Kg
50-29-3	4,4-DDT	0.00049	U	0.00021	0.00048	0.0025	mg/Kg
72-43-5	Methoxychlor	0.0012	U	0.00054	0.0012	0.0025	mg/Kg
53494-70-5	Endrin ketone	0.0012	U	0.00028	0.0012	0.0025	mg/Kg
7421-93-4	Endrin aldehyde	0.0012	U	0.00054	0.0012	0.0025	mg/Kg
5103-71-9	alpha-Chlordane	0.0014	JP	0.00018	0.00048	0.0025	mg/Kg
5103-74-2	gamma-Chlordane	0.0011	J	0.00022	0.00048	0.0025	mg/Kg
8001-35-2	Toxaphene	0.025	U	0.0079	0.025	0.049	mg/Kg
SURROGATES							
2051-24-3	Decachlorobiphenyl	9.07	*	55 - 130		45%	SPK: 20
877-09-8	Tetrachloro-m-xylene	14.8		42 - 129		74%	SPK: 20

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-25-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-09	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	68 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088564.D	1	05/13/25 08:30	05/15/25 14:00	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_D\Data\PD051525\
Data File : PD088564.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 14:00
Operator : AR\AJ
Sample : Q1984-09
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:19:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.551	2.881	29663289	209.0E6	14.851	14.295m
28)	SA Decachlor...	9.076	8.073	30001088	124.4E6	9.069m	6.730m#
	Target Compounds						
10)	B gamma-Chl...	5.946	5.125	6814912	45230837	1.882m	2.229m
11)	B alpha-Chl...	6.030	5.192	10019450	31141760	2.776m	1.589m#
12)	B 4,4'-DDE	6.196	5.376	6202561	42054202	1.881m	2.135m
13)	MA Dieldrin	6.350	5.511	3080678	18876347	0.863m	0.947m

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

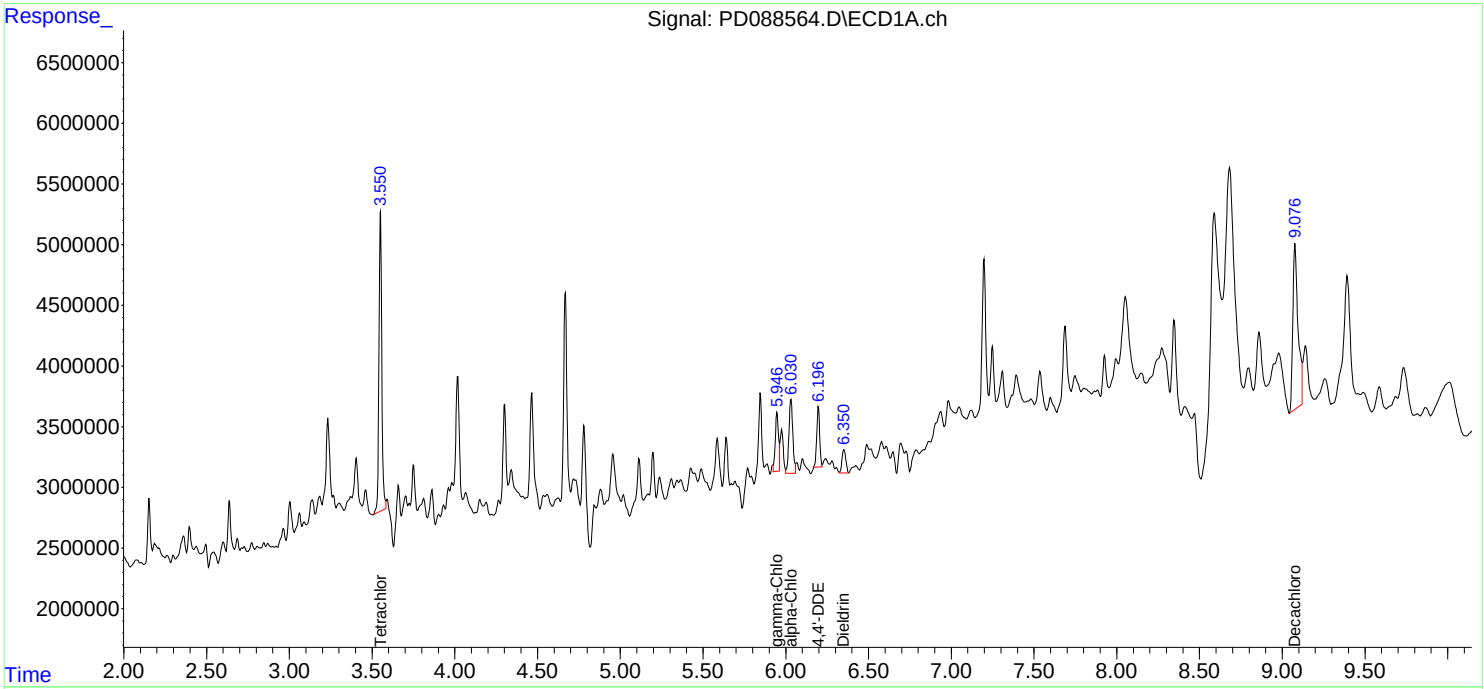
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088564.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 14:00
Operator : AR\AJ
Sample : Q1984-09
Misc :
ALS Vial : 15 Sample Multiplier: 1

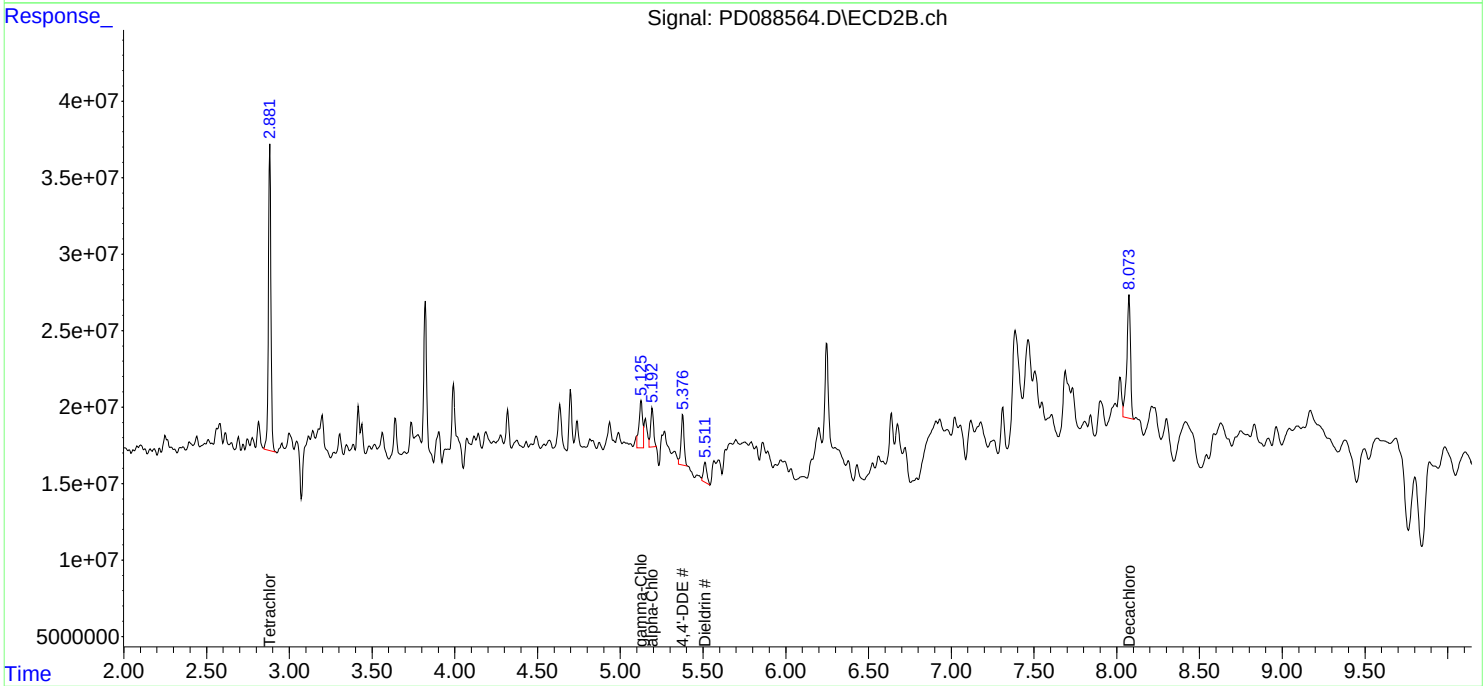
Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725

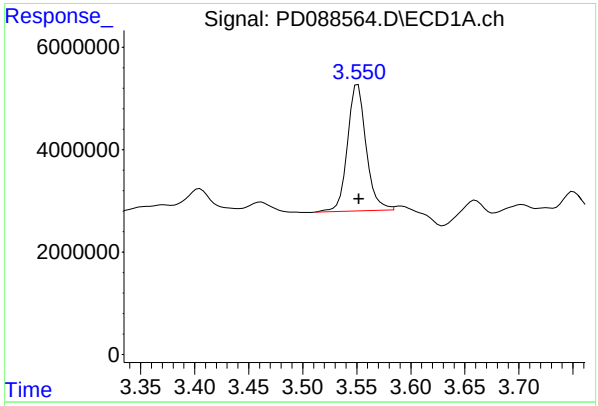
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:19:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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







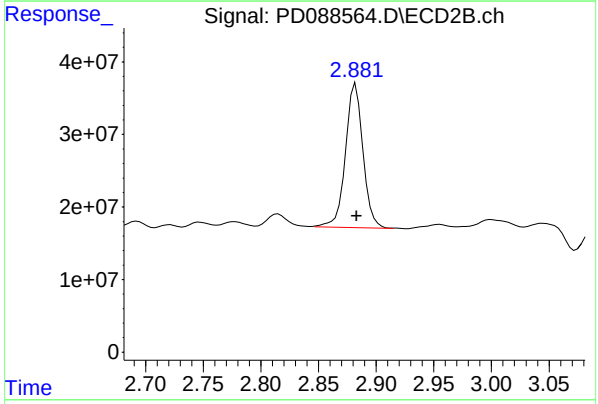
#1 Tetrachloro-m-xylene

R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 29663289
Conc: 14.85 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725

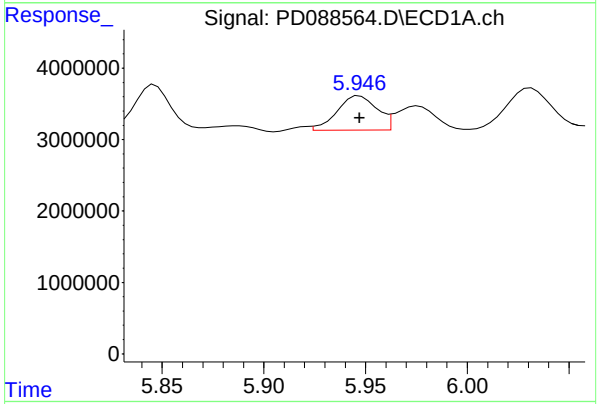
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



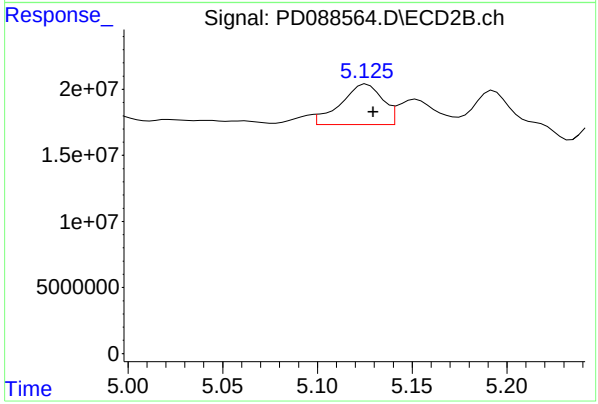
#1 Tetrachloro-m-xylene

R.T.: 2.881 min
Delta R.T.: -0.002 min
Response: 209013979
Conc: 14.29 ng/ml m



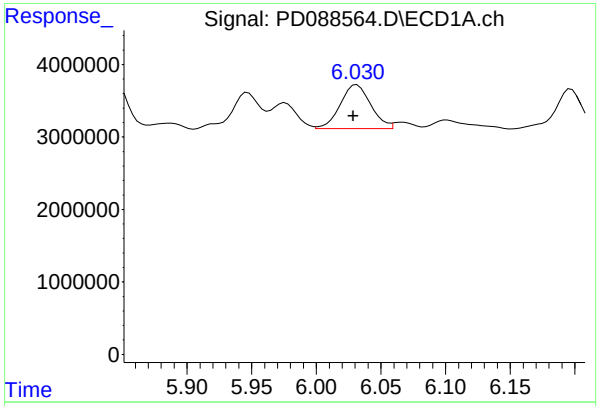
#10 gamma-Chlordane

R.T.: 5.946 min
Delta R.T.: -0.001 min
Response: 6814912
Conc: 1.88 ng/ml m



#10 gamma-Chlordane

R.T.: 5.125 min
Delta R.T.: -0.005 min
Response: 45230837
Conc: 2.23 ng/ml m



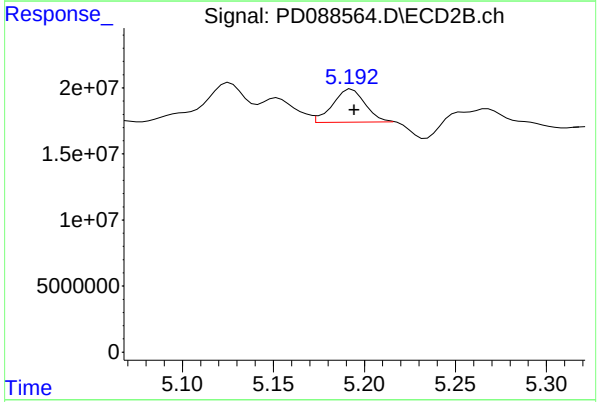
#11 alpha-Chlordane

R.T.: 6.030 min
Delta R.T.: 0.001 mi
Response: 10019450
Conc: 2.78 ng/m

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725

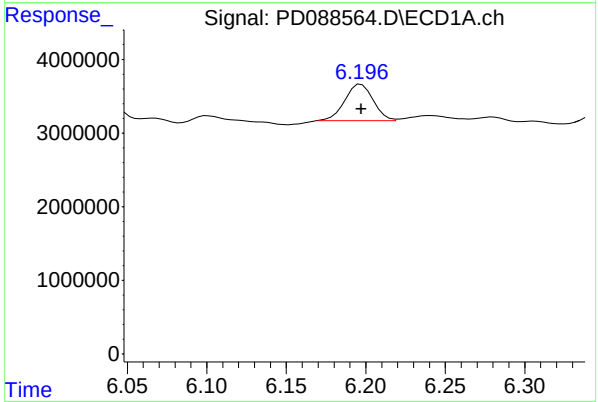
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



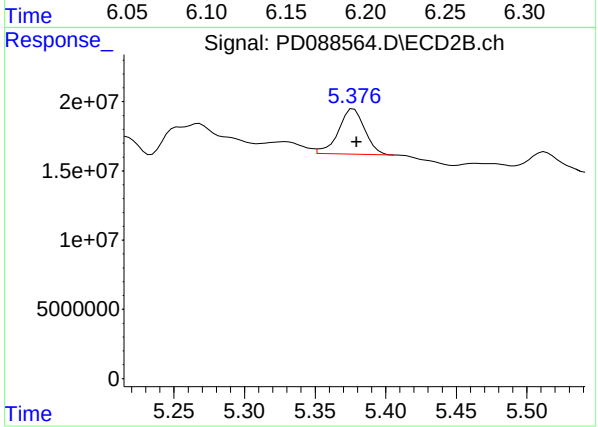
#11 alpha-Chlordane

R.T.: 5.192 min
Delta R.T.: -0.003 min
Response: 31141760
Conc: 1.59 ng/ml m



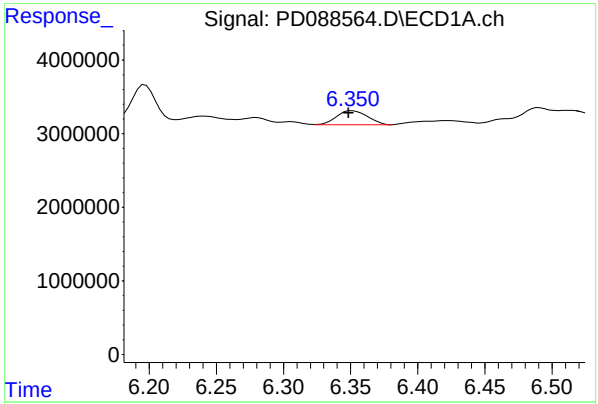
#12 4,4'-DDE

R.T.: 6.196 min
Delta R.T.: -0.001 min
Response: 6202561
Conc: 1.88 ng/ml m



#12 4,4'-DDE

R.T.: 5.376 min
Delta R.T.: -0.004 min
Response: 42054202
Conc: 2.14 ng/ml m



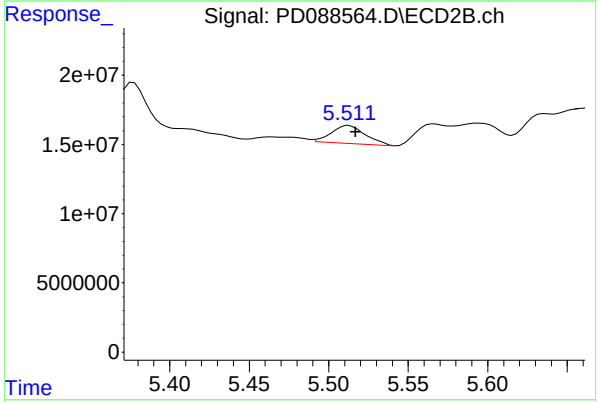
#13 Dieldrin

R.T.: 6.350 min
Delta R.T.: 0.000 min
Response: 3080678
Conc: 0.86 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725

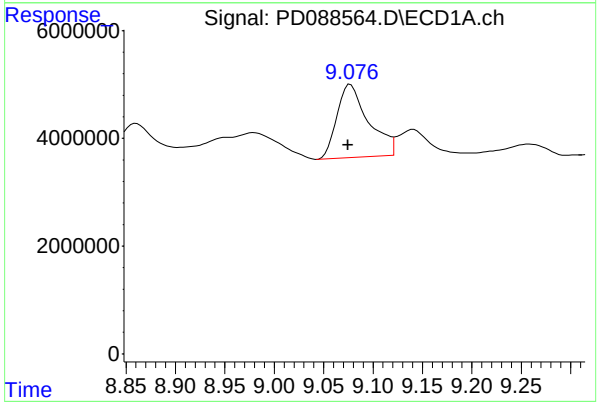
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



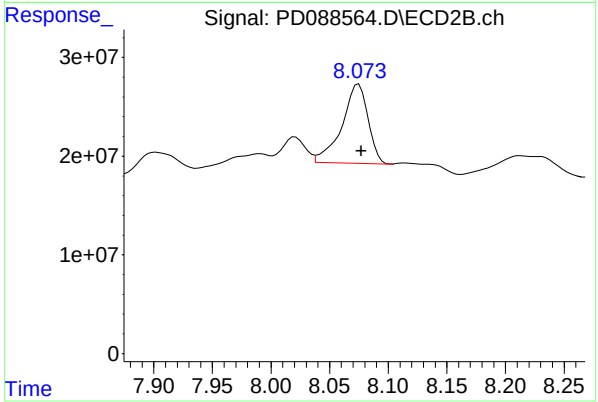
#13 Dieldrin

R.T.: 5.511 min
Delta R.T.: -0.006 min
Response: 18876347
Conc: 0.95 ng/ml m



#28 Decachlorobiphenyl

R.T.: 9.076 min
Delta R.T.: 0.000 min
Response: 30001088
Conc: 9.07 ng/ml m



#28 Decachlorobiphenyl

R.T.: 8.073 min
Delta R.T.: -0.003 min
Response: 124369438
Conc: 6.73 ng/ml m

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-25-050725RE	SDG No.:	Q1984
Lab Sample ID:	Q1984-09RE	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	68 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088609.D	1	05/13/25 08:30	05/19/25 16:50	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
319-84-6	alpha-BHC	0.00049	U	0.00019	0.00048	0.0025	mg/Kg
319-85-7	beta-BHC	0.0012	U	0.00026	0.0012	0.0025	mg/Kg
319-86-8	delta-BHC	0.0012	U	0.00057	0.0012	0.0025	mg/Kg
58-89-9	gamma-BHC (Lindane)	0.00049	U	0.00021	0.00048	0.0025	mg/Kg
76-44-8	Heptachlor	0.00049	U	0.00018	0.00048	0.0025	mg/Kg
309-00-2	Aldrin	0.00049	U	0.00018	0.00048	0.0025	mg/Kg
1024-57-3	Heptachlor epoxide	0.0012	U	0.00028	0.0012	0.0025	mg/Kg
959-98-8	Endosulfan I	0.00049	U	0.00021	0.00048	0.0025	mg/Kg
60-57-1	Dieldrin	0.00045	J	0.00021	0.00048	0.0025	mg/Kg
72-55-9	4,4-DDE	0.0011	JP	0.00021	0.00048	0.0025	mg/Kg
72-20-8	Endrin	0.00049	U	0.00021	0.00048	0.0025	mg/Kg
33213-65-9	Endosulfan II	0.0012	U	0.00043	0.0012	0.0025	mg/Kg
72-54-8	4,4-DDD	0.00049	U	0.00022	0.00048	0.0025	mg/Kg
1031-07-8	Endosulfan Sulfate	0.00049	U	0.00019	0.00048	0.0025	mg/Kg
50-29-3	4,4-DDT	0.00049	U	0.00021	0.00048	0.0025	mg/Kg
72-43-5	Methoxychlor	0.0012	U	0.00054	0.0012	0.0025	mg/Kg
53494-70-5	Endrin ketone	0.0012	U	0.00028	0.0012	0.0025	mg/Kg
7421-93-4	Endrin aldehyde	0.0012	U	0.00054	0.0012	0.0025	mg/Kg
5103-71-9	alpha-Chlordane	0.0012	JP	0.00018	0.00048	0.0025	mg/Kg
5103-74-2	gamma-Chlordane	0.0013	JP	0.00022	0.00048	0.0025	mg/Kg
8001-35-2	Toxaphene	0.025	U	0.0079	0.025	0.049	mg/Kg
SURROGATES							
2051-24-3	Decachlorobiphenyl	10.6	*	55 - 130		53%	SPK: 20
877-09-8	Tetrachloro-m-xylene	14.0		42 - 129		70%	SPK: 20

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-25-050725RE	SDG No.:	Q1984
Lab Sample ID:	Q1984-09RE	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	68 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088609.D	1	05/13/25 08:30	05/19/25 16:50	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

Comments:

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LOQ = Limit of Quantitation
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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_D\Data\PD051925\
Data File : PD088609.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 16:50
Operator : AR\AJ
Sample : Q1984-09RE
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725RE

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:44:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.557	2.881	26538024	211.6E6	12.265	13.989
28)	SA Decachlor...	9.084	8.075	36285074	168.3E6	10.602m	9.219m
	Target Compounds						
10)	B gamma-Chl...	5.954	5.126	6924264	55317302	1.736	2.593m#
11)	B alpha-Chl...	6.038	5.193	9857255	31882233	2.460	1.546m#
12)	B 4,4'-DDE	6.203	5.378	5451962	45829079	1.519m	2.192m#
13)	MA Dieldrin	6.357	5.513	3017042	19183486	0.752m	0.912m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088609.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 16:50
Operator : AR\AJ
Sample : Q1984-09RE
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725RE

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/20/2025
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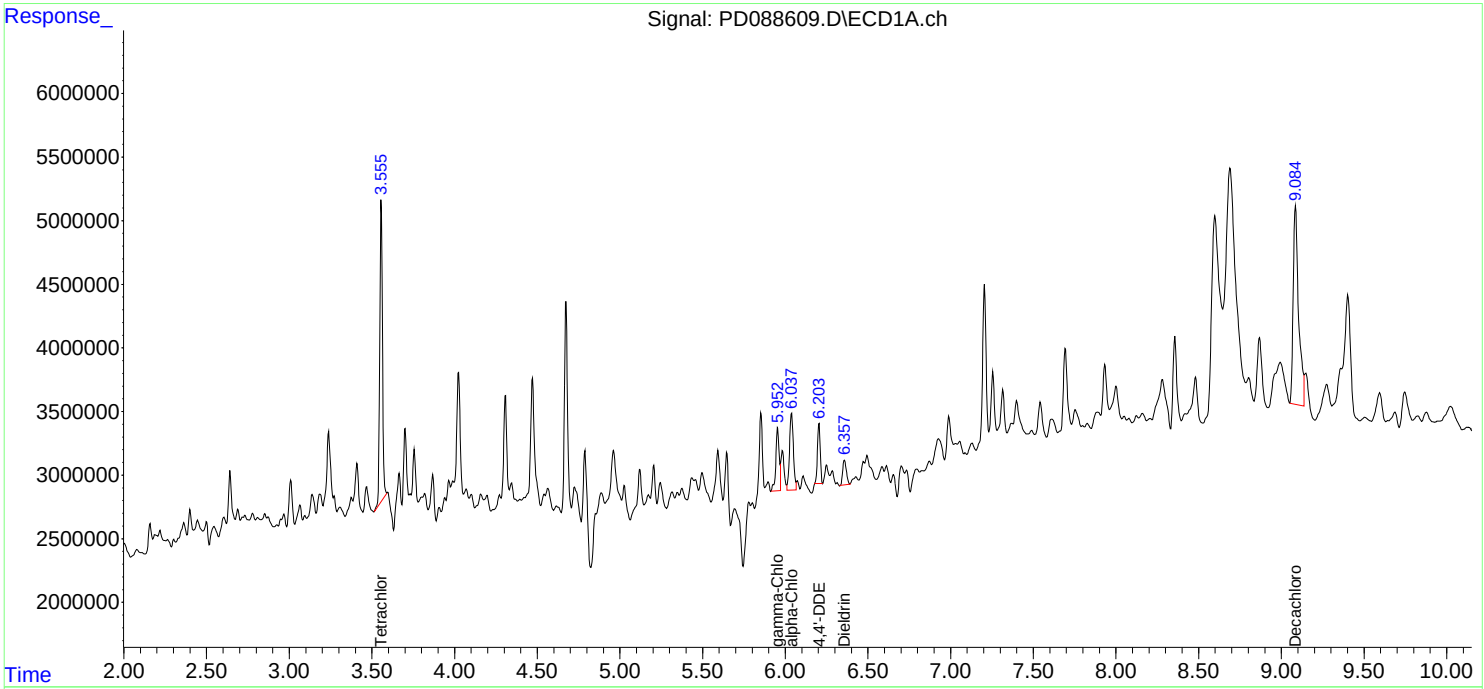
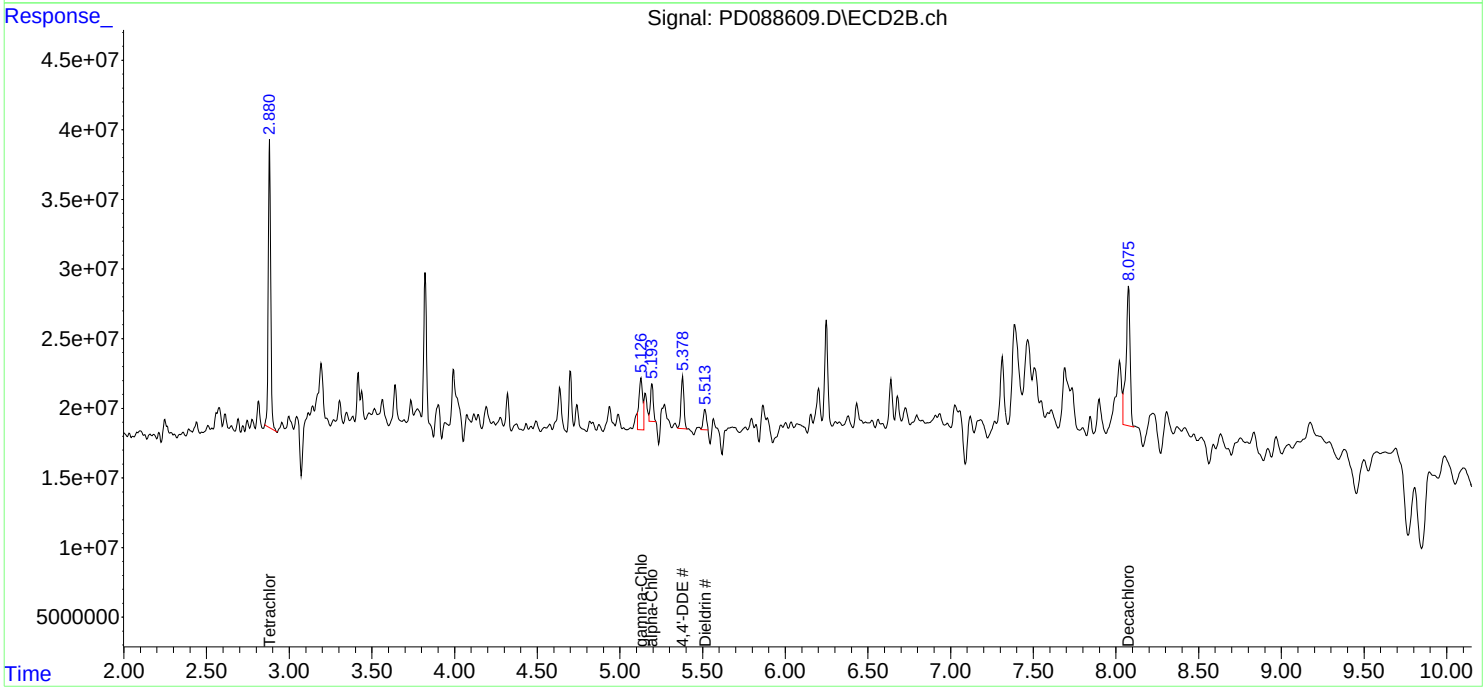
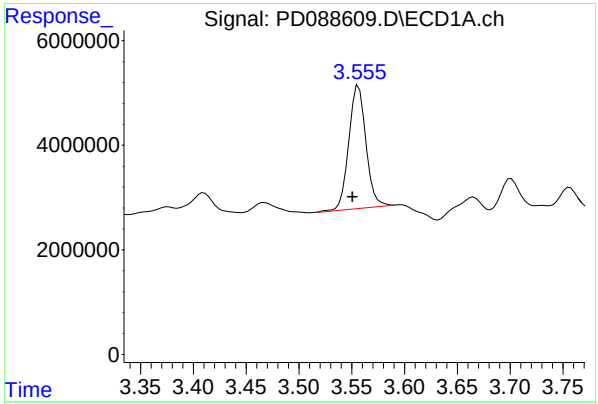
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:44:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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







#1 Tetrachloro-m-xylene

R.T.: 3.557 min
Delta R.T.: 0.006 min
Response: 26538024
Conc: 12.26 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725RE

Manual Integrations APPROVED

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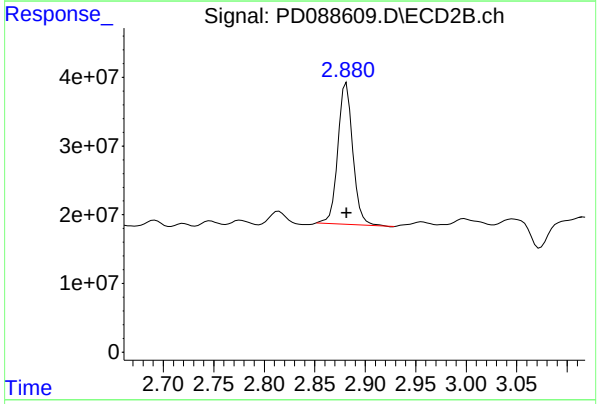
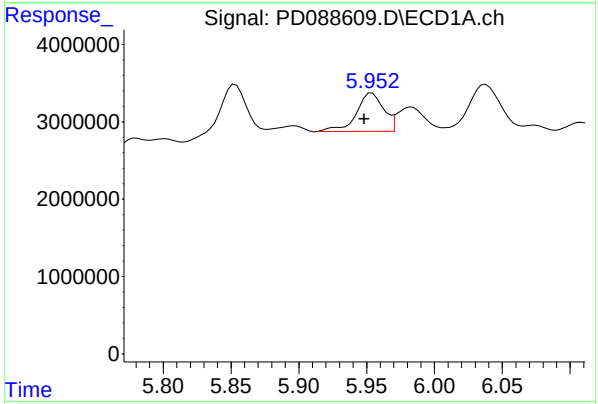
Supervised By :mohammad ahmed 05/21/2025



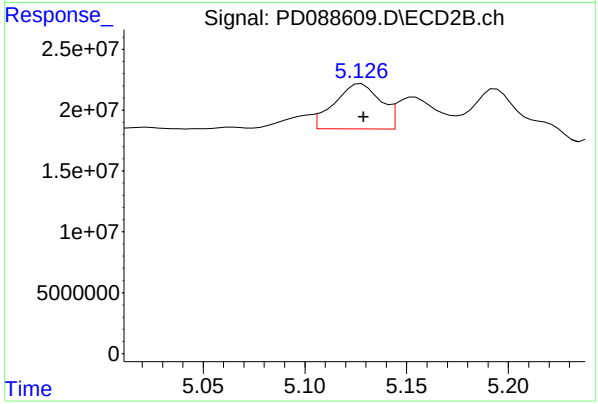
#1 Tetrachloro-m-xylene

R.T.: 2.881 min
Delta R.T.: 0.000 min
Response: 211616099
Conc: 13.99 ng/ml



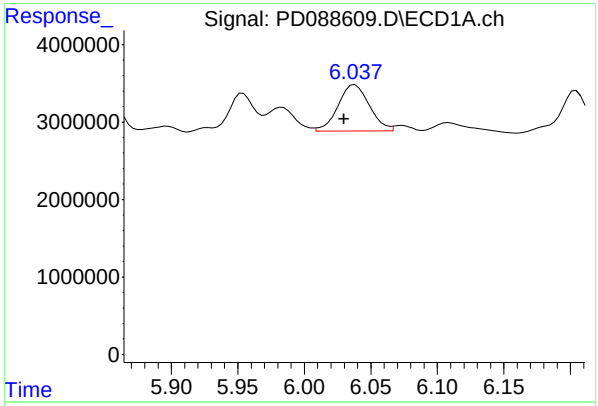
#10 gamma-Chlordane

R.T.: 5.954 min
Delta R.T.: 0.006 min
Response: 6924264
Conc: 1.74 ng/ml



#10 gamma-Chlordane

R.T.: 5.126 min
Delta R.T.: -0.003 min
Response: 55317302
Conc: 2.59 ng/ml m



#11 alpha-Chlordane

R.T.: 6.038 min
Delta R.T.: 0.008 mi
Response: 9857255
Conc: 2.46 ng/m

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725RE

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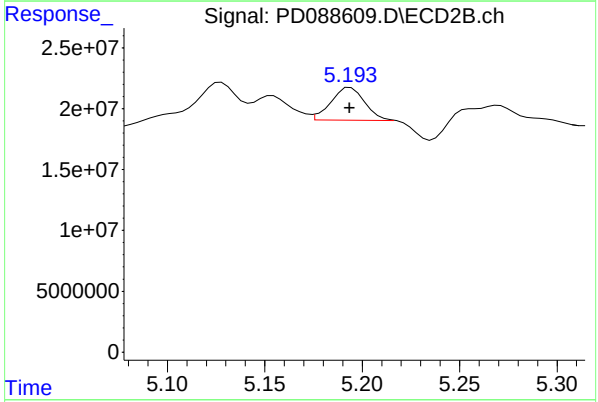
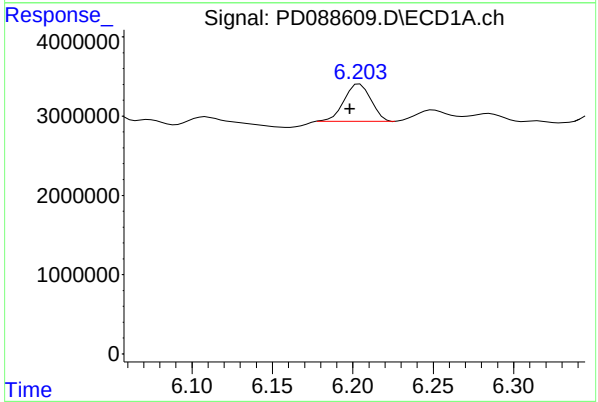
Supervised By :mohammad ahmed 05/21/2025



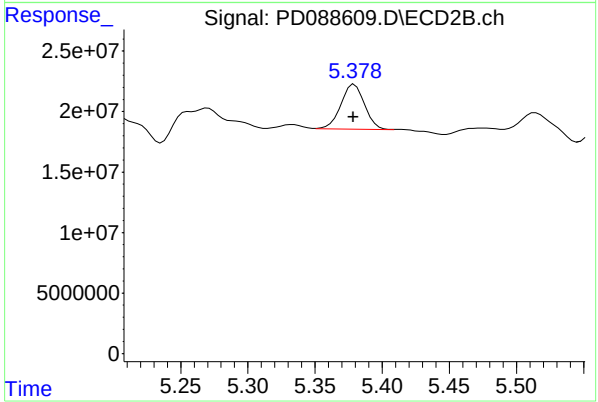
#11 alpha-Chlordane

R.T.: 5.193 min
Delta R.T.: -0.001 min
Response: 31882233
Conc: 1.55 ng/ml m



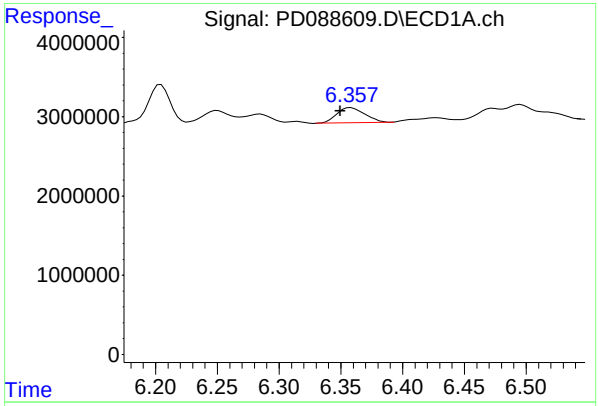
#12 4,4'-DDE

R.T.: 6.203 min
Delta R.T.: 0.005 min
Response: 5451962
Conc: 1.52 ng/ml m



#12 4,4'-DDE

R.T.: 5.378 min
Delta R.T.: 0.000 min
Response: 45829079
Conc: 2.19 ng/ml m



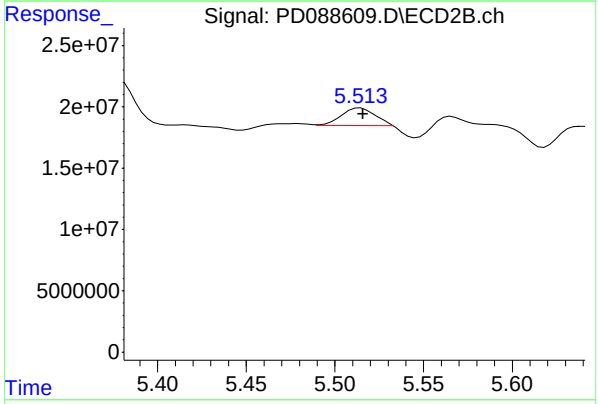
#13 Dieldrin

R.T.: 6.357 min
Delta R.T.: 0.007 mi
Response: 3017042
Conc: 0.75 ng/m

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725RE

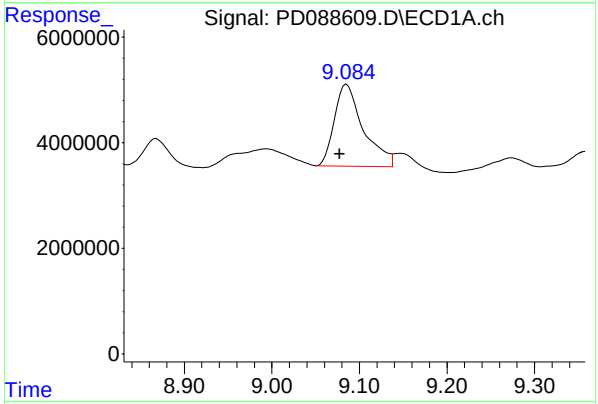
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



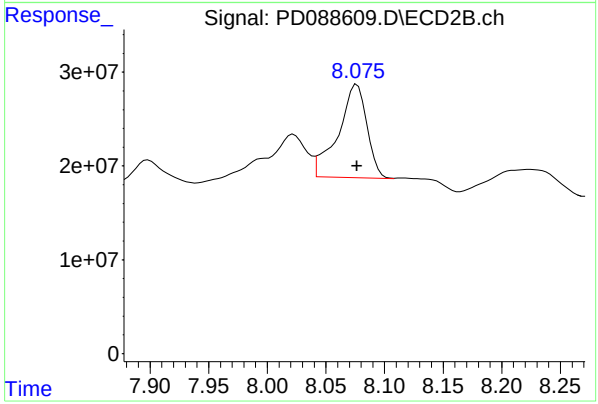
#13 Dieldrin

R.T.: 5.513 min
Delta R.T.: -0.003 min
Response: 19183486
Conc: 0.91 ng/ml m



#28 Decachlorobiphenyl

R.T.: 9.084 min
Delta R.T.: 0.007 min
Response: 36285074
Conc: 10.60 ng/ml m



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.001 min
Response: 168299048
Conc: 9.22 ng/ml m

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-26-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-11	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	60.1 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088569.D	1	05/13/25 08:30	05/15/25 18:08	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
319-84-6	alpha-BHC	0.00055	U	0.00022	0.00055	0.0028	mg/Kg
319-85-7	beta-BHC	0.0014	U	0.00030	0.0014	0.0028	mg/Kg
319-86-8	delta-BHC	0.0014	U	0.00065	0.0014	0.0028	mg/Kg
58-89-9	gamma-BHC (Lindane)	0.00055	U	0.00023	0.00055	0.0028	mg/Kg
76-44-8	Heptachlor	0.00055	U	0.00020	0.00055	0.0028	mg/Kg
309-00-2	Aldrin	0.00055	U	0.00020	0.00055	0.0028	mg/Kg
1024-57-3	Heptachlor epoxide	0.0014	U	0.00032	0.0014	0.0028	mg/Kg
959-98-8	Endosulfan I	0.00055	U	0.00023	0.00055	0.0028	mg/Kg
60-57-1	Dieldrin	0.00055	U	0.00023	0.00055	0.0028	mg/Kg
72-55-9	4,4-DDE	0.0013	J	0.00023	0.00055	0.0028	mg/Kg
72-20-8	Endrin	0.00055	U	0.00023	0.00055	0.0028	mg/Kg
33213-65-9	Endosulfan II	0.0014	U	0.00048	0.0014	0.0028	mg/Kg
72-54-8	4,4-DDD	0.00055	U	0.00025	0.00055	0.0028	mg/Kg
1031-07-8	Endosulfan Sulfate	0.00055	U	0.00022	0.00055	0.0028	mg/Kg
50-29-3	4,4-DDT	0.00055	U	0.00023	0.00055	0.0028	mg/Kg
72-43-5	Methoxychlor	0.0014	U	0.00061	0.0014	0.0028	mg/Kg
53494-70-5	Endrin ketone	0.0014	U	0.00032	0.0014	0.0028	mg/Kg
7421-93-4	Endrin aldehyde	0.0014	U	0.00061	0.0014	0.0028	mg/Kg
5103-71-9	alpha-Chlordane	0.00059	JP	0.00020	0.00055	0.0028	mg/Kg
5103-74-2	gamma-Chlordane	0.00055	U	0.00025	0.00055	0.0028	mg/Kg
8001-35-2	Toxaphene	0.028	U	0.0090	0.028	0.055	mg/Kg
SURROGATES							
2051-24-3	Decachlorobiphenyl	7.02	*	55 - 130		35%	SPK: 20
877-09-8	Tetrachloro-m-xylene	10.9		42 - 129		55%	SPK: 20

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-26-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-11	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	60.1 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088569.D	1	05/13/25 08:30	05/15/25 18:08	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_D\Data\PD051525\
Data File : PD088569.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 18:08
Operator : AR\AJ
Sample : Q1984-11
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:20:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.552	2.883	21814579	155.2E6	10.922	10.613
28)	SA Decachlor...	9.077	8.076	23210771	102.8E6	7.016	5.564
	Target Compounds						
11)	B alpha-Chl...	6.031	5.191	3828102	13395518	1.061m	0.683m#
12)	B 4,4'-DDE	6.197	5.377	7035319	44945230	2.133m	2.282m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088569.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 18:08
Operator : AR\AJ
Sample : Q1984-11
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725

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Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:20:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
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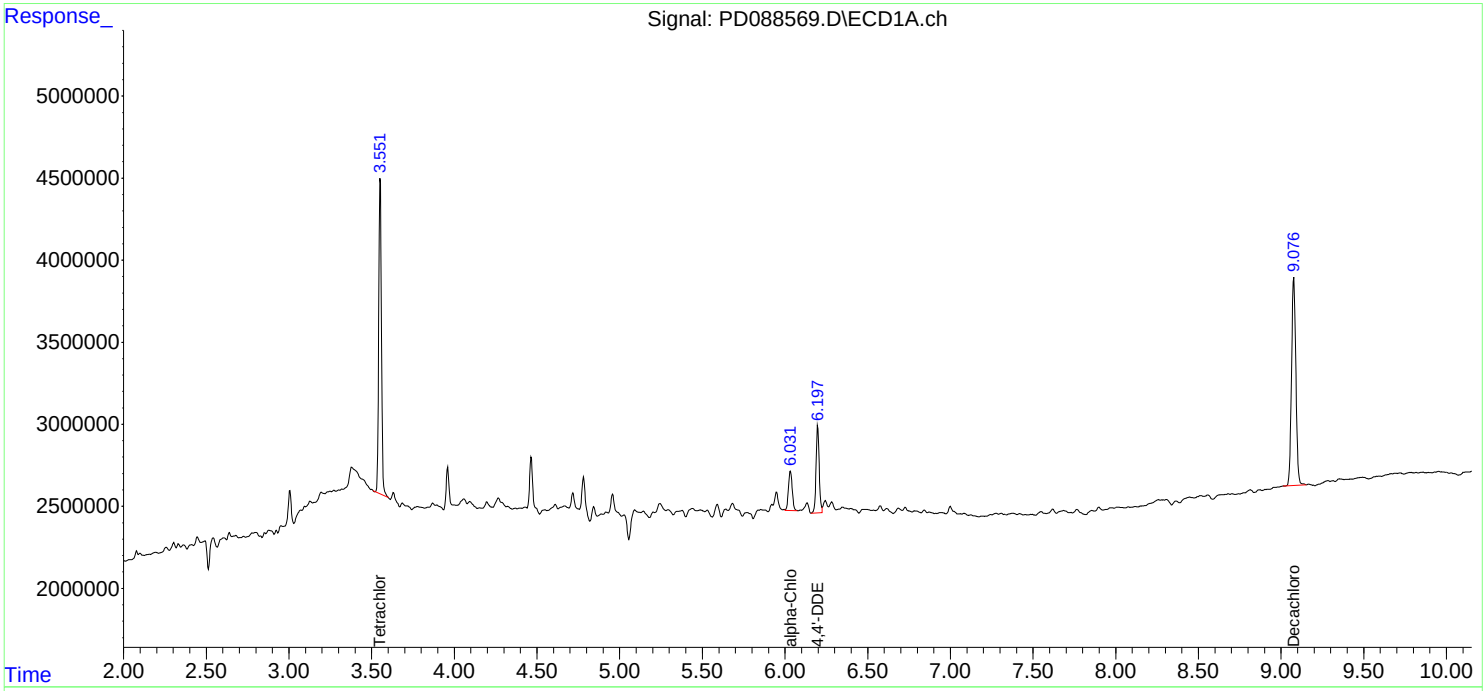
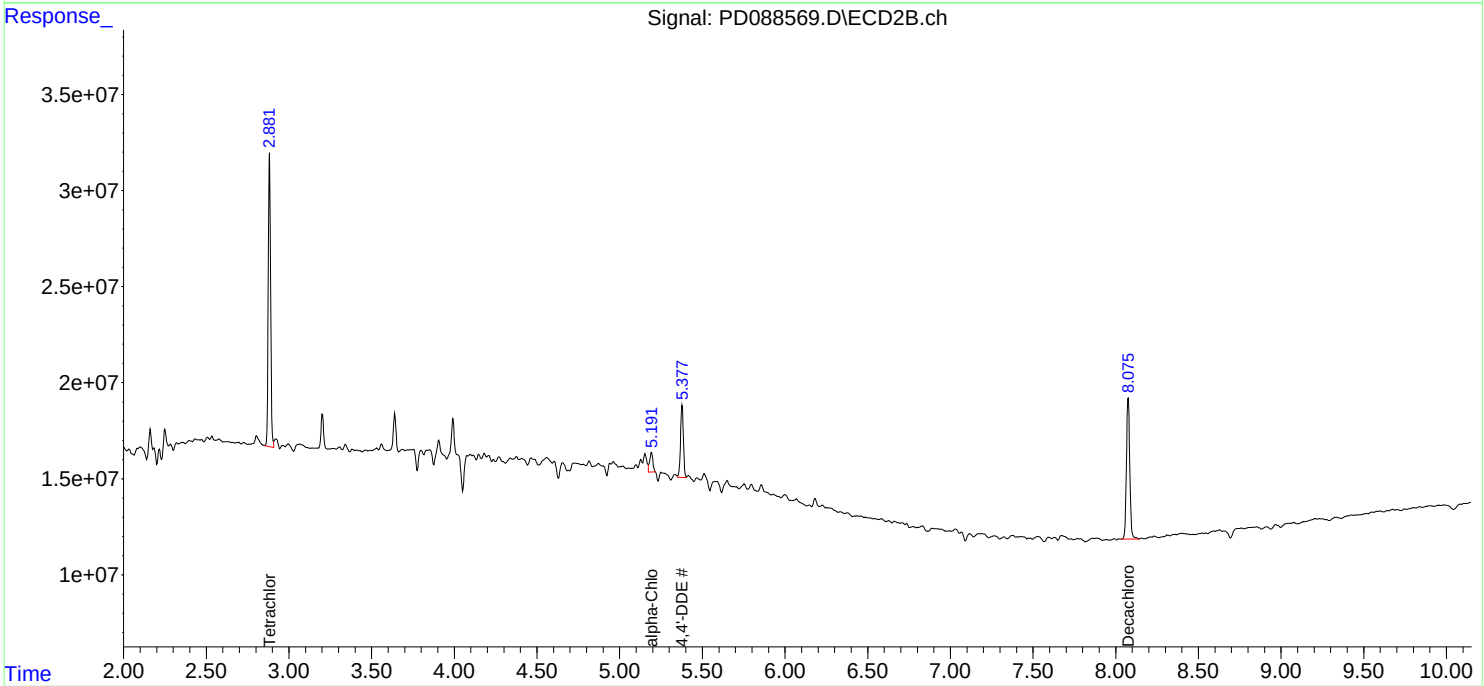
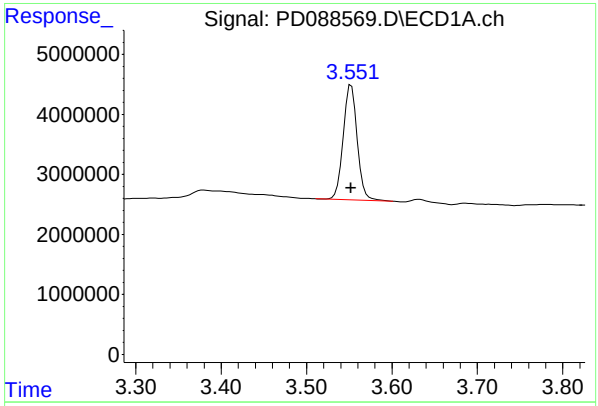
Response via : Initial Calibration
Integrator: ChemStation

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







#1 Tetrachloro-m-xylene

R.T.: 3.552 min
Delta R.T.: 0.000 min
Response: 21814579
Conc: 10.92 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725

Manual Integrations
APPROVED

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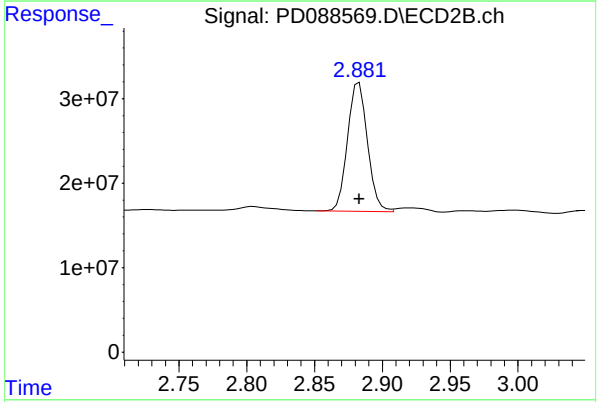
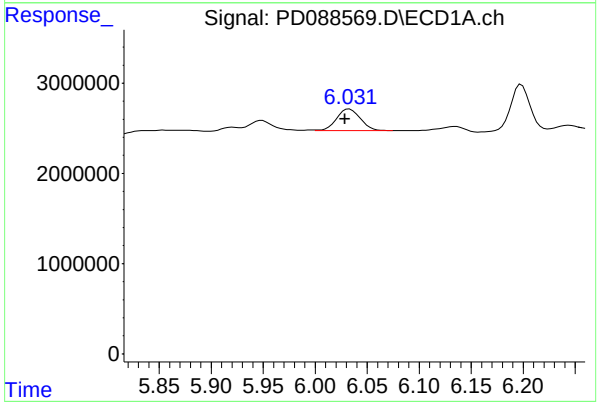


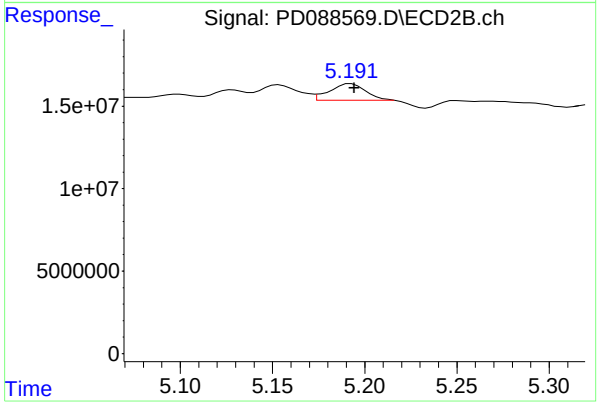
#1 Tetrachloro-m-xylene

R.T.: 2.883 min
Delta R.T.: 0.000 min
Response: 155180672
Conc: 10.61 ng/ml



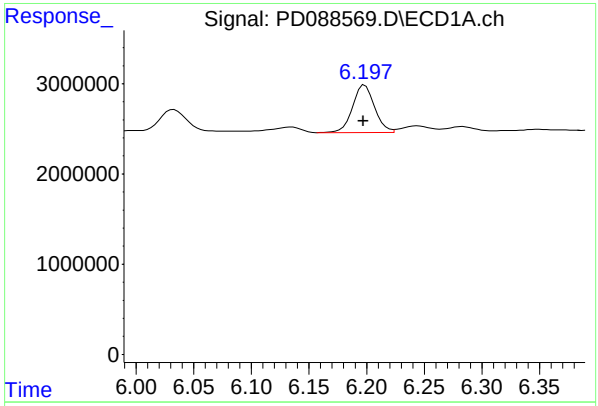
#11 alpha-Chlordane

R.T.: 6.031 min
Delta R.T.: 0.003 min
Response: 3828102
Conc: 1.06 ng/ml m



#11 alpha-Chlordane

R.T.: 5.191 min
Delta R.T.: -0.003 min
Response: 13395518
Conc: 0.68 ng/ml m



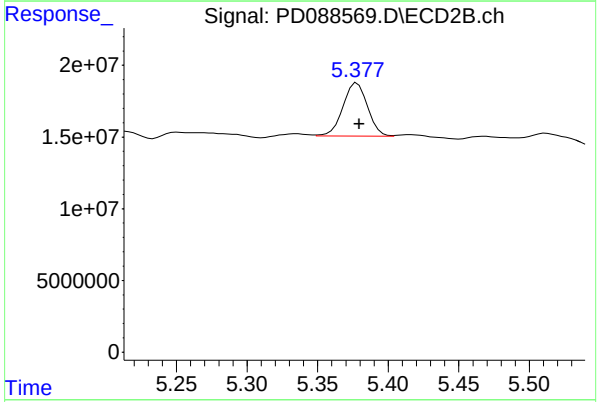
#12 4,4'-DDE

R.T.: 6.197 min
Delta R.T.: 0.000 mi
Response: 7035319
Conc: 2.13 ng/m

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725

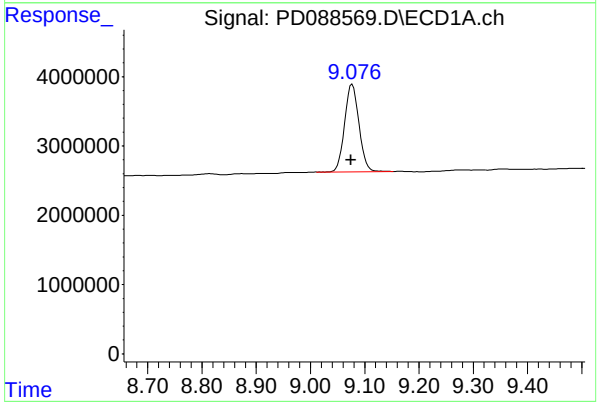
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



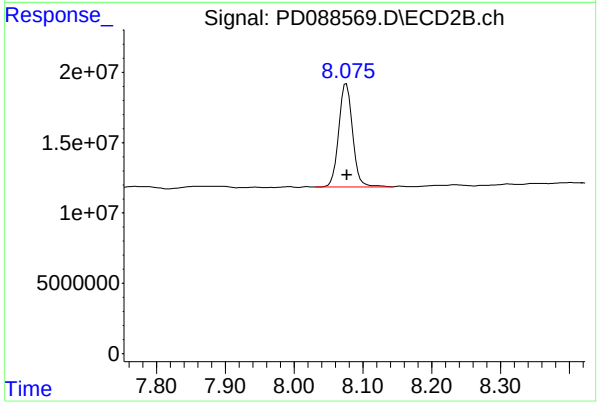
#12 4,4'-DDE

R.T.: 5.377 min
Delta R.T.: -0.003 min
Response: 44945230
Conc: 2.28 ng/ml m



#28 Decachlorobiphenyl

R.T.: 9.077 min
Delta R.T.: 0.002 min
Response: 23210771
Conc: 7.02 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 102825270
Conc: 5.56 ng/ml

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-26-050725RE	SDG No.:	Q1984
Lab Sample ID:	Q1984-11RE	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	60.1 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088610.D	1	05/13/25 08:30	05/19/25 17:04	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
319-84-6	alpha-BHC	0.00055	U	0.00022	0.00055	0.0028	mg/Kg
319-85-7	beta-BHC	0.0014	U	0.00030	0.0014	0.0028	mg/Kg
319-86-8	delta-BHC	0.0014	U	0.00065	0.0014	0.0028	mg/Kg
58-89-9	gamma-BHC (Lindane)	0.00055	U	0.00023	0.00055	0.0028	mg/Kg
76-44-8	Heptachlor	0.00055	U	0.00020	0.00055	0.0028	mg/Kg
309-00-2	Aldrin	0.00055	U	0.00020	0.00055	0.0028	mg/Kg
1024-57-3	Heptachlor epoxide	0.0014	U	0.00032	0.0014	0.0028	mg/Kg
959-98-8	Endosulfan I	0.00055	U	0.00023	0.00055	0.0028	mg/Kg
60-57-1	Dieldrin	0.00055	U	0.00023	0.00055	0.0028	mg/Kg
72-55-9	4,4-DDE	0.0010	J	0.00023	0.00055	0.0028	mg/Kg
72-20-8	Endrin	0.00055	U	0.00023	0.00055	0.0028	mg/Kg
33213-65-9	Endosulfan II	0.0014	U	0.00048	0.0014	0.0028	mg/Kg
72-54-8	4,4-DDD	0.00055	U	0.00025	0.00055	0.0028	mg/Kg
1031-07-8	Endosulfan Sulfate	0.00055	U	0.00022	0.00055	0.0028	mg/Kg
50-29-3	4,4-DDT	0.00055	U	0.00023	0.00055	0.0028	mg/Kg
72-43-5	Methoxychlor	0.0014	U	0.00061	0.0014	0.0028	mg/Kg
53494-70-5	Endrin ketone	0.0014	U	0.00032	0.0014	0.0028	mg/Kg
7421-93-4	Endrin aldehyde	0.0014	U	0.00061	0.0014	0.0028	mg/Kg
5103-71-9	alpha-Chlordane	0.00051	J	0.00020	0.00055	0.0028	mg/Kg
5103-74-2	gamma-Chlordane	0.00055	U	0.00025	0.00055	0.0028	mg/Kg
8001-35-2	Toxaphene	0.028	U	0.0090	0.028	0.055	mg/Kg
SURROGATES							
2051-24-3	Decachlorobiphenyl	5.69	*	55 - 130		28%	SPK: 20
877-09-8	Tetrachloro-m-xylene	10.3		42 - 129		52%	SPK: 20

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-26-050725RE	SDG No.:	Q1984
Lab Sample ID:	Q1984-11RE	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	60.1 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088610.D	1	05/13/25 08:30	05/19/25 17:04	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_D\Data\PD051925\
Data File : PD088610.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 17:04
Operator : AR\AJ
Sample : Q1984-11RE
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725RE

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:44:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.551	2.882	21773920	156.2E6	10.063	10.323
28)	SA Decachlor...	9.078	8.077	17967487	104.0E6	5.250m	5.694
	Target Compounds						
11)	B alpha-Chl...	6.034	5.191	3740857	15476275	0.934	0.750m
12)	B 4,4'-DDE	6.198	5.377	5503518	39316789	1.533	1.881m

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

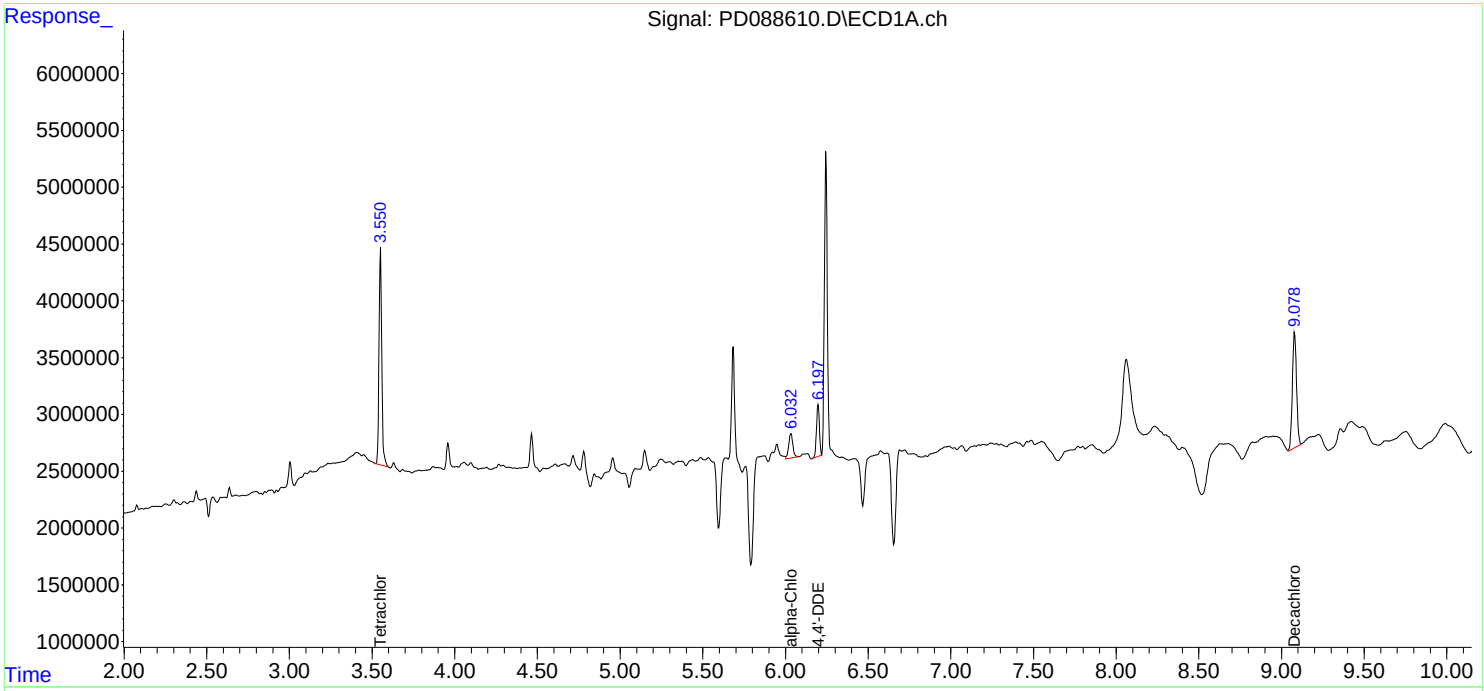
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088610.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 17:04
Operator : AR\AJ
Sample : Q1984-11RE
Misc :
ALS Vial : 25 Sample Multiplier: 1

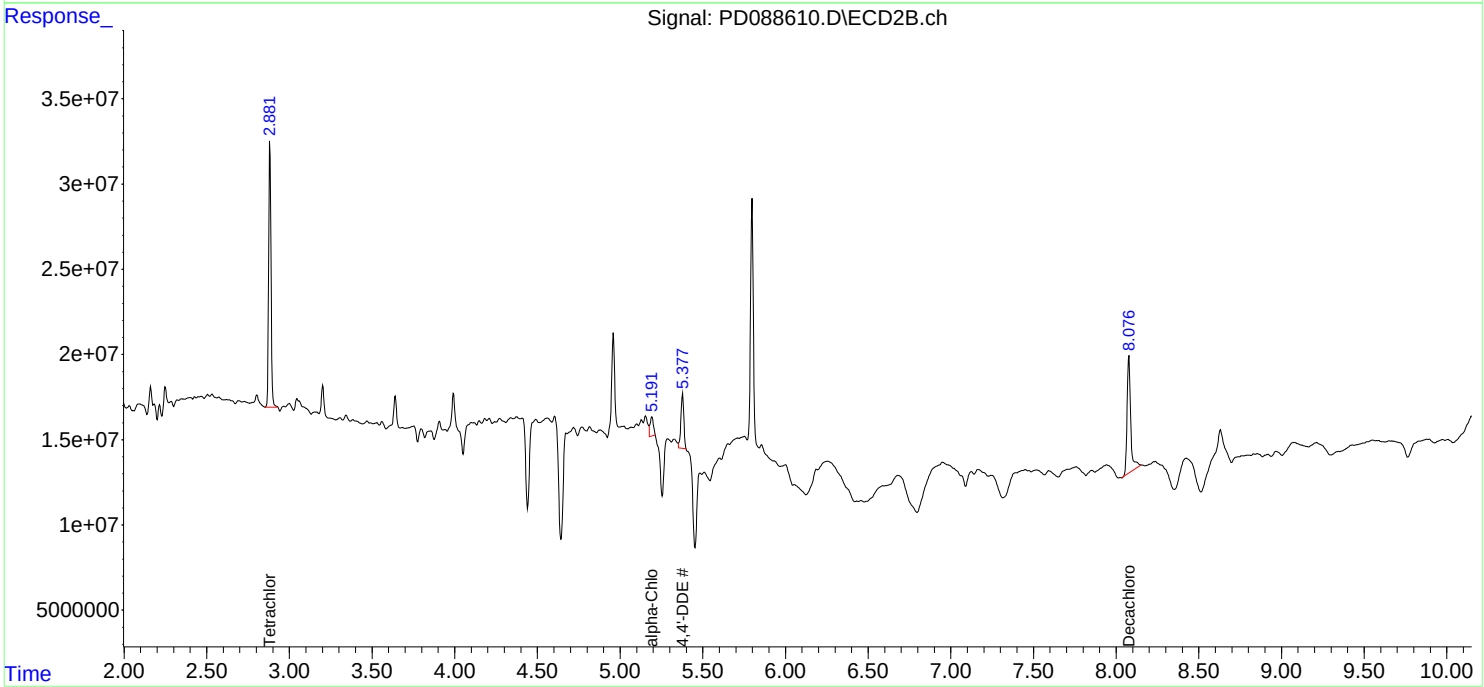
Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725RE

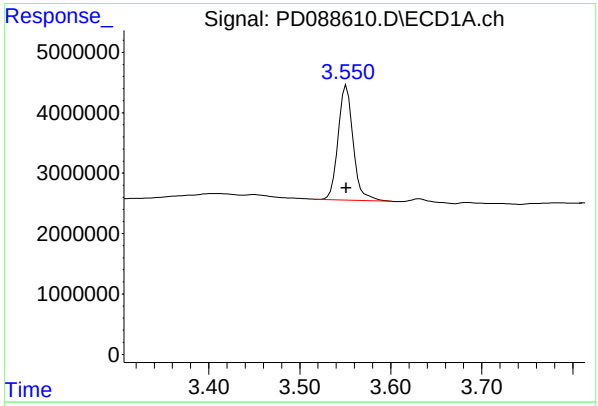
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:44:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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







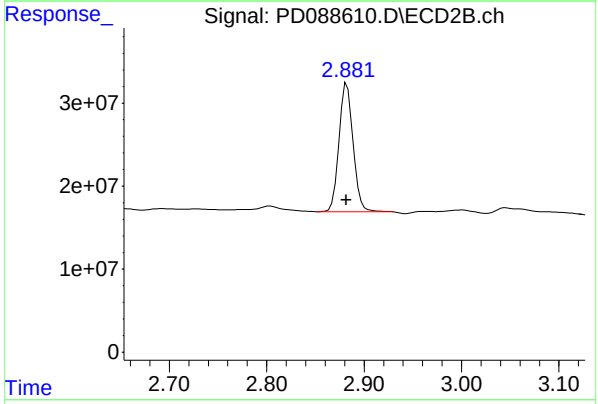
#1 Tetrachloro-m-xylene

R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 21773920
Conc: 10.06 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725RE

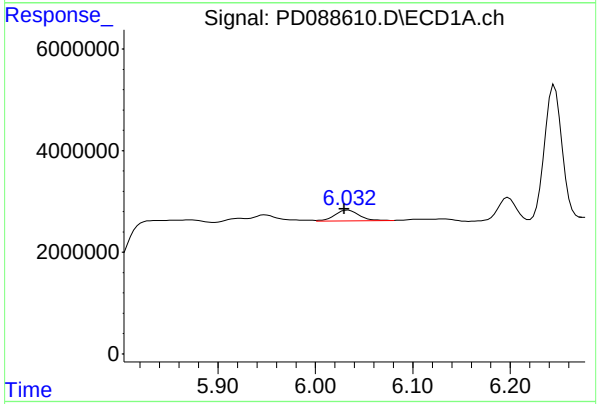
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



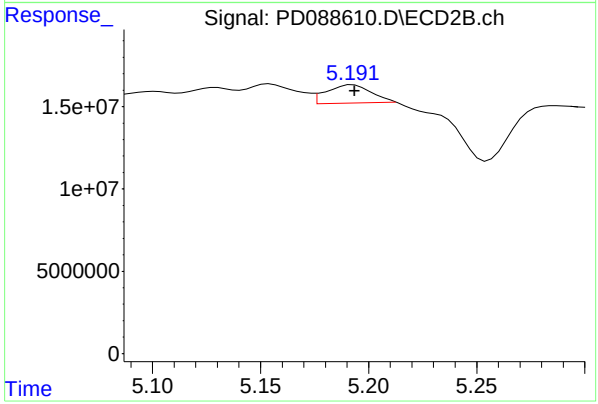
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 156153404
Conc: 10.32 ng/ml



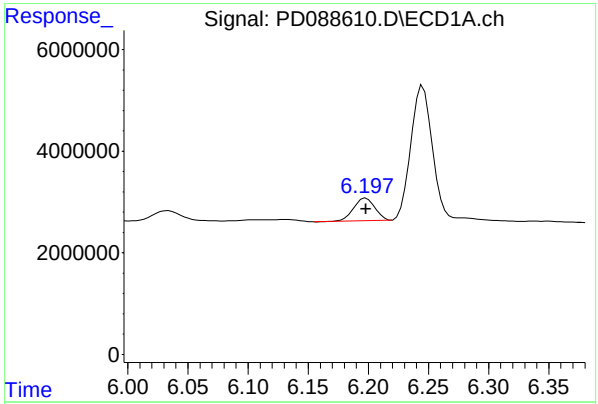
#11 alpha-Chlordane

R.T.: 6.034 min
Delta R.T.: 0.004 min
Response: 3740857
Conc: 0.93 ng/ml



#11 alpha-Chlordane

R.T.: 5.191 min
Delta R.T.: -0.002 min
Response: 15476275
Conc: 0.75 ng/ml m



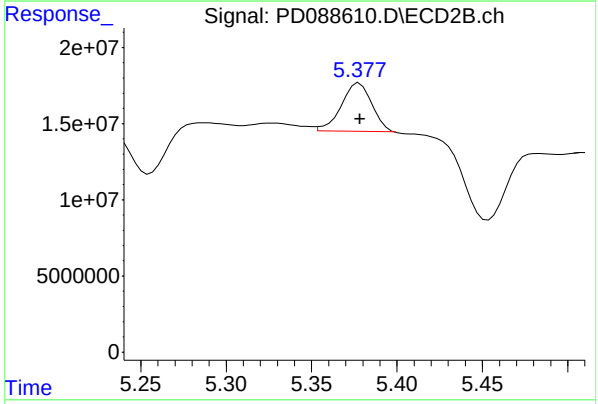
#12 4,4'-DDE

R.T.: 6.198 min
Delta R.T.: 0.000 mi
Response: 5503518
Conc: 1.53 ng/m

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725RE

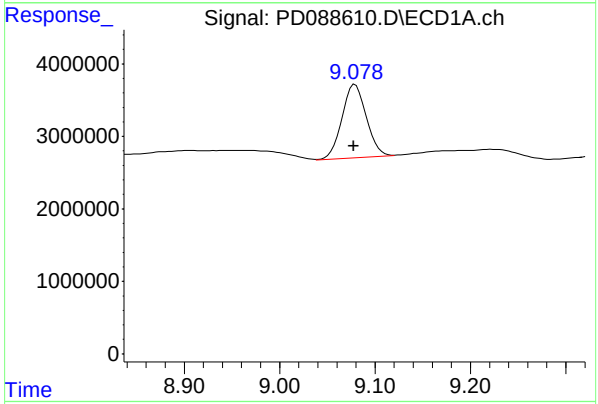
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



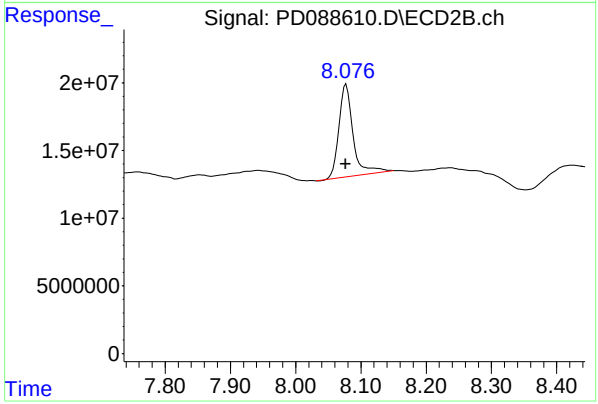
#12 4,4'-DDE

R.T.: 5.377 min
Delta R.T.: -0.002 min
Response: 39316789
Conc: 1.88 ng/ml m



#28 Decachlorobiphenyl

R.T.: 9.078 min
Delta R.T.: 0.000 min
Response: 17967487
Conc: 5.25 ng/ml m



#28 Decachlorobiphenyl

R.T.: 8.077 min
Delta R.T.: 0.000 min
Response: 103950658
Conc: 5.69 ng/ml

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-27-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-13	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	62.5 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088570.D	1	05/13/25 08:30	05/15/25 18:22	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
319-84-6	alpha-BHC	0.00053	U	0.00021	0.00053	0.0027	mg/Kg
319-85-7	beta-BHC	0.0013	U	0.00029	0.0013	0.0027	mg/Kg
319-86-8	delta-BHC	0.0013	U	0.00062	0.0013	0.0027	mg/Kg
58-89-9	gamma-BHC (Lindane)	0.00053	U	0.00022	0.00053	0.0027	mg/Kg
76-44-8	Heptachlor	0.00053	U	0.00019	0.00053	0.0027	mg/Kg
309-00-2	Aldrin	0.00053	U	0.00019	0.00053	0.0027	mg/Kg
1024-57-3	Heptachlor epoxide	0.0013	U	0.00030	0.0013	0.0027	mg/Kg
959-98-8	Endosulfan I	0.00053	U	0.00022	0.00053	0.0027	mg/Kg
60-57-1	Dieldrin	0.00034	J	0.00022	0.00053	0.0027	mg/Kg
72-55-9	4,4-DDE	0.00075	J	0.00022	0.00053	0.0027	mg/Kg
72-20-8	Endrin	0.00030	J	0.00022	0.00053	0.0027	mg/Kg
33213-65-9	Endosulfan II	0.0013	U	0.00046	0.0013	0.0027	mg/Kg
72-54-8	4,4-DDD	0.00053	U	0.00024	0.00053	0.0027	mg/Kg
1031-07-8	Endosulfan Sulfate	0.00053	U	0.00021	0.00053	0.0027	mg/Kg
50-29-3	4,4-DDT	0.00053	U	0.00022	0.00053	0.0027	mg/Kg
72-43-5	Methoxychlor	0.0013	U	0.00059	0.0013	0.0027	mg/Kg
53494-70-5	Endrin ketone	0.0013	U	0.00030	0.0013	0.0027	mg/Kg
7421-93-4	Endrin aldehyde	0.0013	U	0.00059	0.0013	0.0027	mg/Kg
5103-71-9	alpha-Chlordane	0.00085	JP	0.00019	0.00053	0.0027	mg/Kg
5103-74-2	gamma-Chlordane	0.00073	J	0.00024	0.00053	0.0027	mg/Kg
8001-35-2	Toxaphene	0.027	U	0.0087	0.027	0.053	mg/Kg
SURROGATES							
2051-24-3	Decachlorobiphenyl	9.05	*	55 - 130		45%	SPK: 20
877-09-8	Tetrachloro-m-xylene	15.1		42 - 129		76%	SPK: 20

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Fax : 908 789 8922

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-27-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-13	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	62.5 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088570.D	1	05/13/25 08:30	05/15/25 18:22	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_D\Data\PD051525\
Data File : PD088570.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 18:22
Operator : AR\AJ
Sample : Q1984-13
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:20:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.552	2.882	30212154	212.6E6	15.126	14.537
28)	SA Decachlor...	9.075	8.074	29936864	132.6E6	9.050m	7.177m
	Target Compounds						
10)	B gamma-Chl...	5.948	5.124	4172878	27766040	1.152	1.368m
11)	B alpha-Chl...	6.032	5.192	5725030	17707887	1.586	0.903m#
12)	B 4,4'-DDE	6.196	5.378	3672662	27758031	1.114m	1.409 #
13)	MA Dieldrin	6.351	5.513	2267174	12462931	0.635m	0.625m
14)	MA Endrin	6.579	5.795	976912	10444488	0.328	0.574m#

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

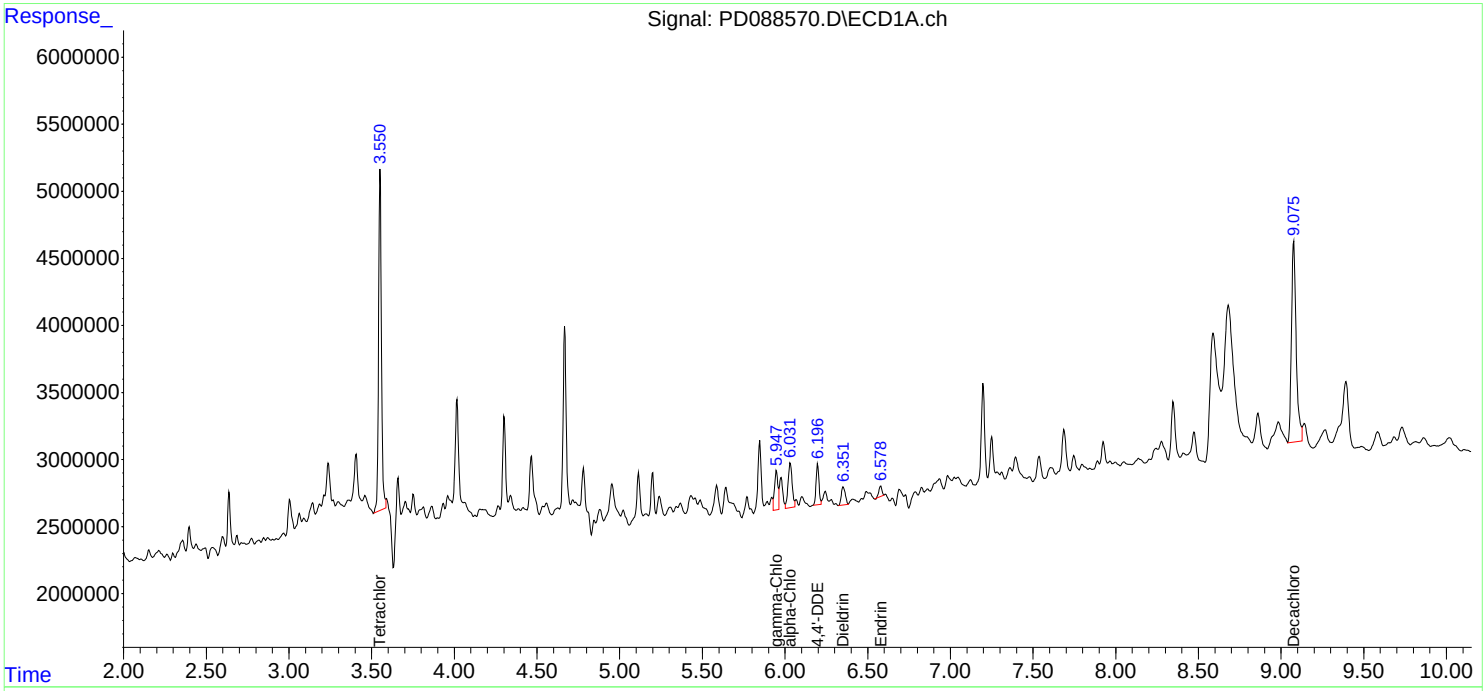
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088570.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 18:22
Operator : AR\AJ
Sample : Q1984-13
Misc :
ALS Vial : 17 Sample Multiplier: 1

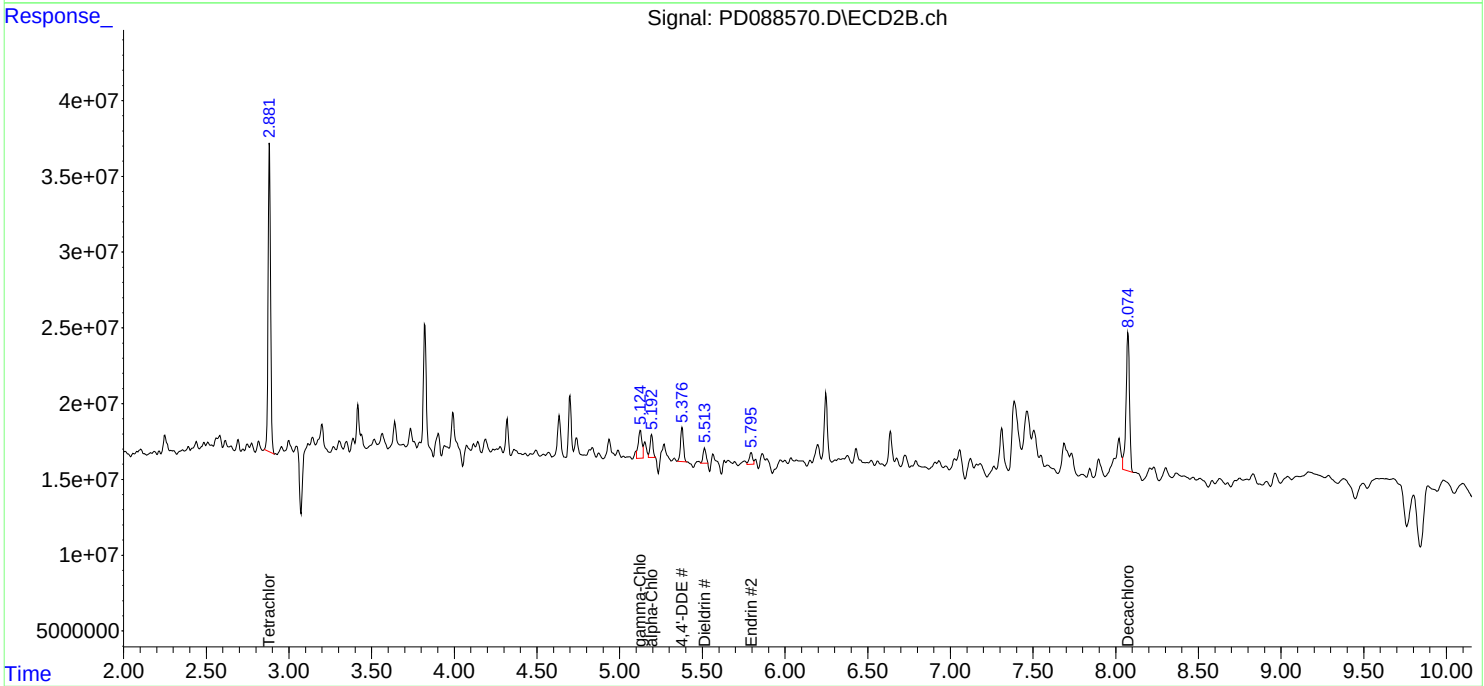
Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725

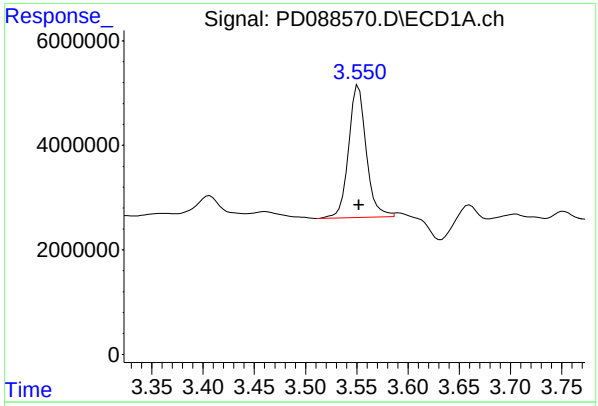
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:20:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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







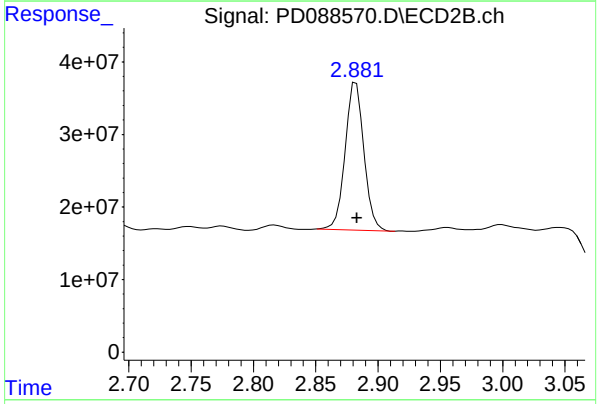
#1 Tetrachloro-m-xylene

R.T.: 3.552 min
Delta R.T.: 0.000 min
Response: 30212154
Conc: 15.13 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725

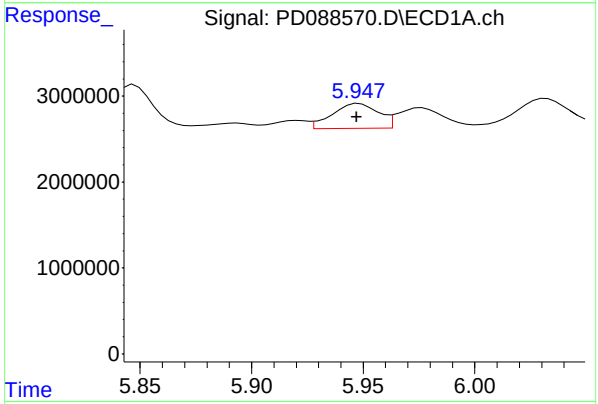
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



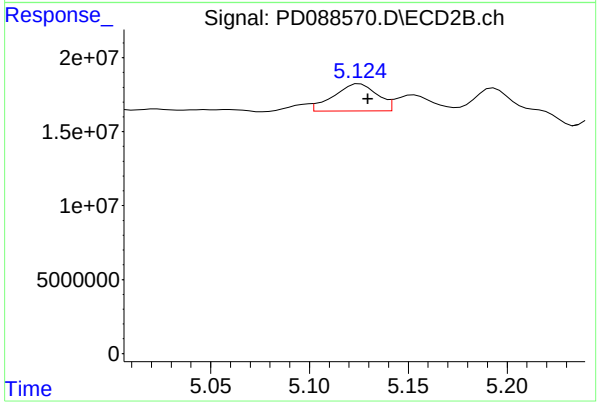
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 212559852
Conc: 14.54 ng/ml



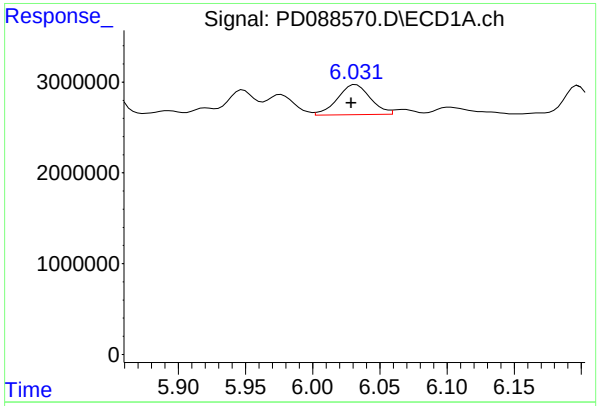
#10 gamma-Chlordane

R.T.: 5.948 min
Delta R.T.: 0.001 min
Response: 4172878
Conc: 1.15 ng/ml



#10 gamma-Chlordane

R.T.: 5.124 min
Delta R.T.: -0.005 min
Response: 27766040
Conc: 1.37 ng/ml m



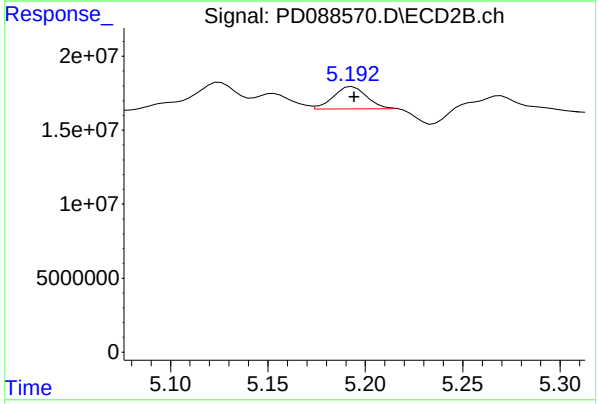
#11 alpha-Chlordane

R.T.: 6.032 min
Delta R.T.: 0.003 mi
Response: 5725030
Conc: 1.59 ng/m

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725

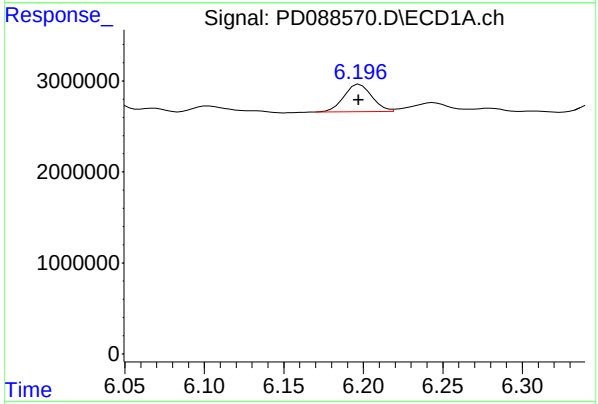
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



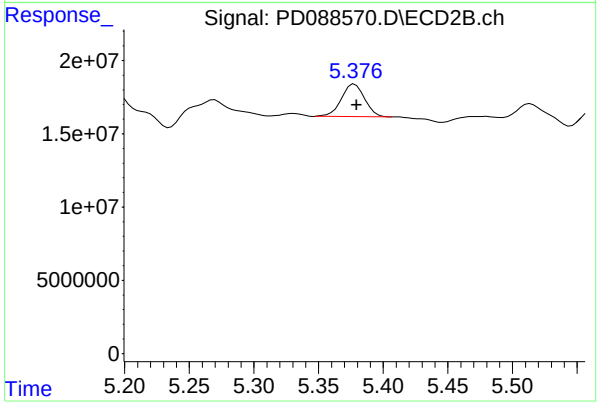
#11 alpha-Chlordane

R.T.: 5.192 min
Delta R.T.: -0.002 min
Response: 17707887
Conc: 0.90 ng/ml m



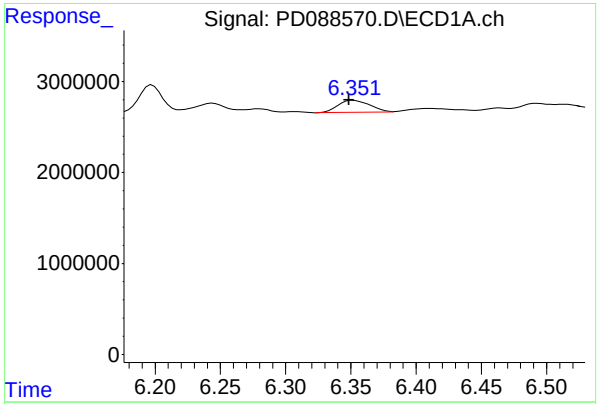
#12 4,4'-DDE

R.T.: 6.196 min
Delta R.T.: 0.000 min
Response: 3672662
Conc: 1.11 ng/ml m



#12 4,4'-DDE

R.T.: 5.378 min
Delta R.T.: -0.002 min
Response: 27758031
Conc: 1.41 ng/ml



#13 Dieldrin

R.T.: 6.351 min
Delta R.T.: 0.002 mi
Response: 2267174
Conc: 0.64 ng/m

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725

Manual Integrations
APPROVED

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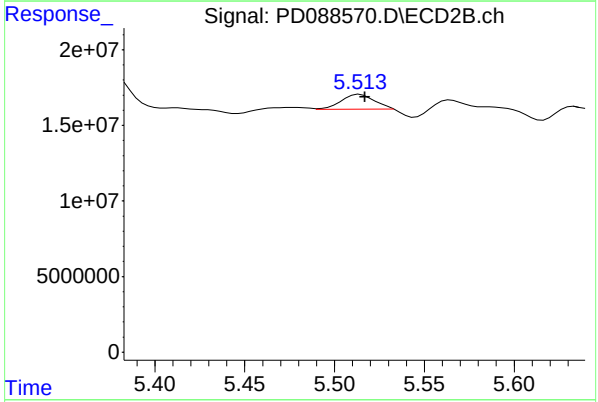
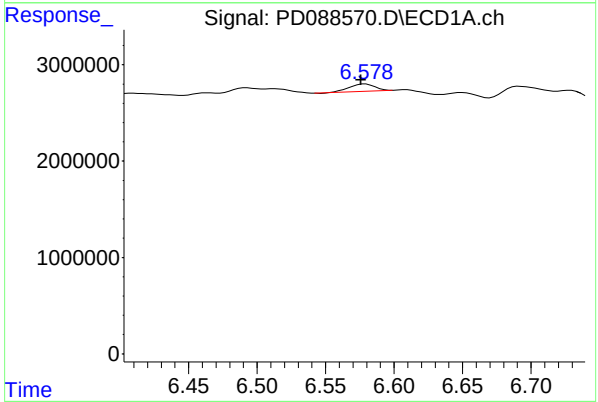


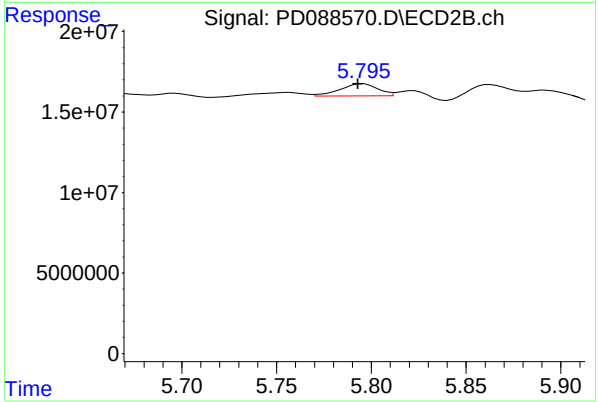
#13 Dieldrin

R.T.: 5.513 min
Delta R.T.: -0.004 min
Response: 12462931
Conc: 0.63 ng/ml m



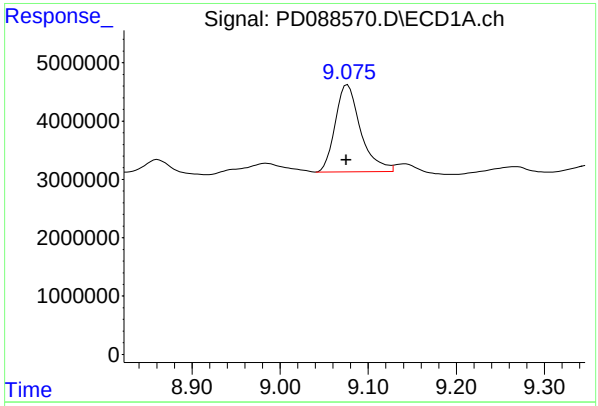
#14 Endrin

R.T.: 6.579 min
Delta R.T.: 0.003 min
Response: 976912
Conc: 0.33 ng/ml



#14 Endrin

R.T.: 5.795 min
Delta R.T.: 0.002 min
Response: 10444488
Conc: 0.57 ng/ml m



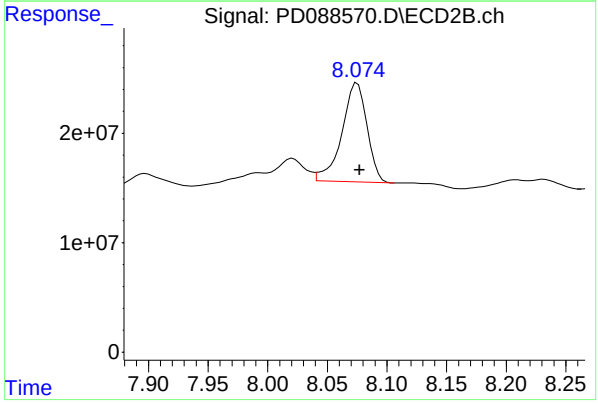
#28 Decachlorobiphenyl

R.T.: 9.075 min
Delta R.T.: 0.000 mi
Response: 29936864
Conc: 9.05 ng/m

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



#28 Decachlorobiphenyl

R.T.: 8.074 min
Delta R.T.: -0.003 min
Response: 132633690
Conc: 7.18 ng/ml m

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-27-050725RE	SDG No.:	Q1984
Lab Sample ID:	Q1984-13RE	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	62.5 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088611.D	1	05/13/25 08:30	05/19/25 17:18	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
319-84-6	alpha-BHC	0.00053	U	0.00021	0.00053	0.0027	mg/Kg
319-85-7	beta-BHC	0.0013	U	0.00029	0.0013	0.0027	mg/Kg
319-86-8	delta-BHC	0.0013	U	0.00062	0.0013	0.0027	mg/Kg
58-89-9	gamma-BHC (Lindane)	0.00053	U	0.00022	0.00053	0.0027	mg/Kg
76-44-8	Heptachlor	0.00053	U	0.00019	0.00053	0.0027	mg/Kg
309-00-2	Aldrin	0.00053	U	0.00019	0.00053	0.0027	mg/Kg
1024-57-3	Heptachlor epoxide	0.0013	U	0.00030	0.0013	0.0027	mg/Kg
959-98-8	Endosulfan I	0.00053	U	0.00022	0.00053	0.0027	mg/Kg
60-57-1	Dieldrin	0.00034	JP	0.00022	0.00053	0.0027	mg/Kg
72-55-9	4,4-DDE	0.00068	JP	0.00022	0.00053	0.0027	mg/Kg
72-20-8	Endrin	0.00030	J	0.00022	0.00053	0.0027	mg/Kg
33213-65-9	Endosulfan II	0.0013	U	0.00046	0.0013	0.0027	mg/Kg
72-54-8	4,4-DDD	0.00053	U	0.00024	0.00053	0.0027	mg/Kg
1031-07-8	Endosulfan Sulfate	0.00053	U	0.00021	0.00053	0.0027	mg/Kg
50-29-3	4,4-DDT	0.00053	U	0.00022	0.00053	0.0027	mg/Kg
72-43-5	Methoxychlor	0.0013	U	0.00059	0.0013	0.0027	mg/Kg
53494-70-5	Endrin ketone	0.0013	U	0.00030	0.0013	0.0027	mg/Kg
7421-93-4	Endrin aldehyde	0.0013	U	0.00059	0.0013	0.0027	mg/Kg
5103-71-9	alpha-Chlordane	0.00059	JP	0.00019	0.00053	0.0027	mg/Kg
5103-74-2	gamma-Chlordane	0.00075	JP	0.00024	0.00053	0.0027	mg/Kg
8001-35-2	Toxaphene	0.027	U	0.0087	0.027	0.053	mg/Kg
SURROGATES							
2051-24-3	Decachlorobiphenyl	7.17	*	55 - 130		36%	SPK: 20
877-09-8	Tetrachloro-m-xylene	14.4		42 - 129		72%	SPK: 20

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-27-050725RE	SDG No.:	Q1984
Lab Sample ID:	Q1984-13RE	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	62.5 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088611.D	1	05/13/25 08:30	05/19/25 17:18	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_D\Data\PD051925\
Data File : PD088611.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 17:18
Operator : AR\AJ
Sample : Q1984-13RE
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725RE

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:44:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.551	2.895	28568294	217.6E6	13.203	14.387
28)	SA Decachlor...	9.077	8.088	24545728	111.8E6	7.172m	6.124m
	Target Compounds						
10)	B gamma-Chl...	5.946	5.137	3657633	29790775	0.917m	1.397m#
11)	B alpha-Chl...	6.032	5.205	4460110	16900390	1.113	0.819m#
12)	B 4,4'-DDE	6.197	5.391	3018402	26630395	0.841	1.274 #
13)	MA Dieldrin	6.352	5.525	1881651	13289314	0.469	0.632m#
14)	MA Endrin	6.580	5.807	1575243	10856543	0.461	0.563m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088611.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 17:18
Operator : AR\AJ
Sample : Q1984-13RE
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725RE

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/20/2025
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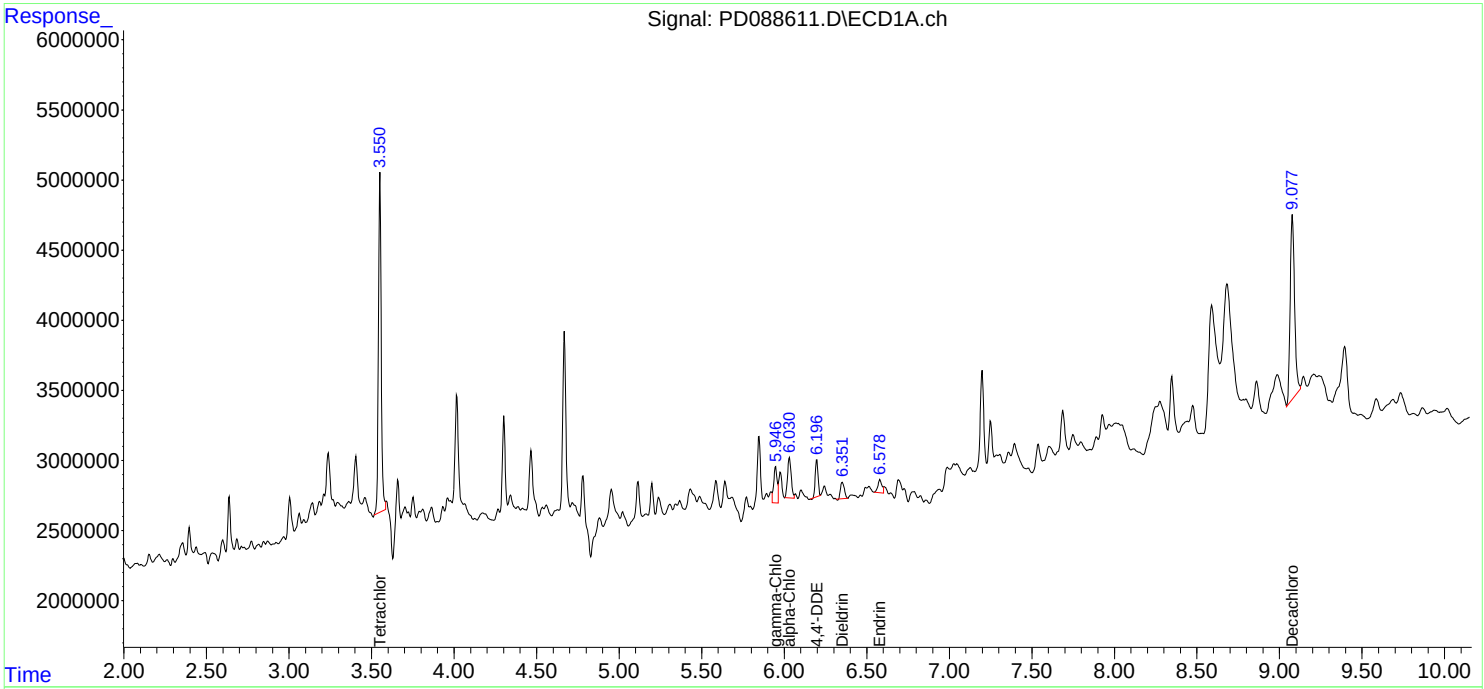
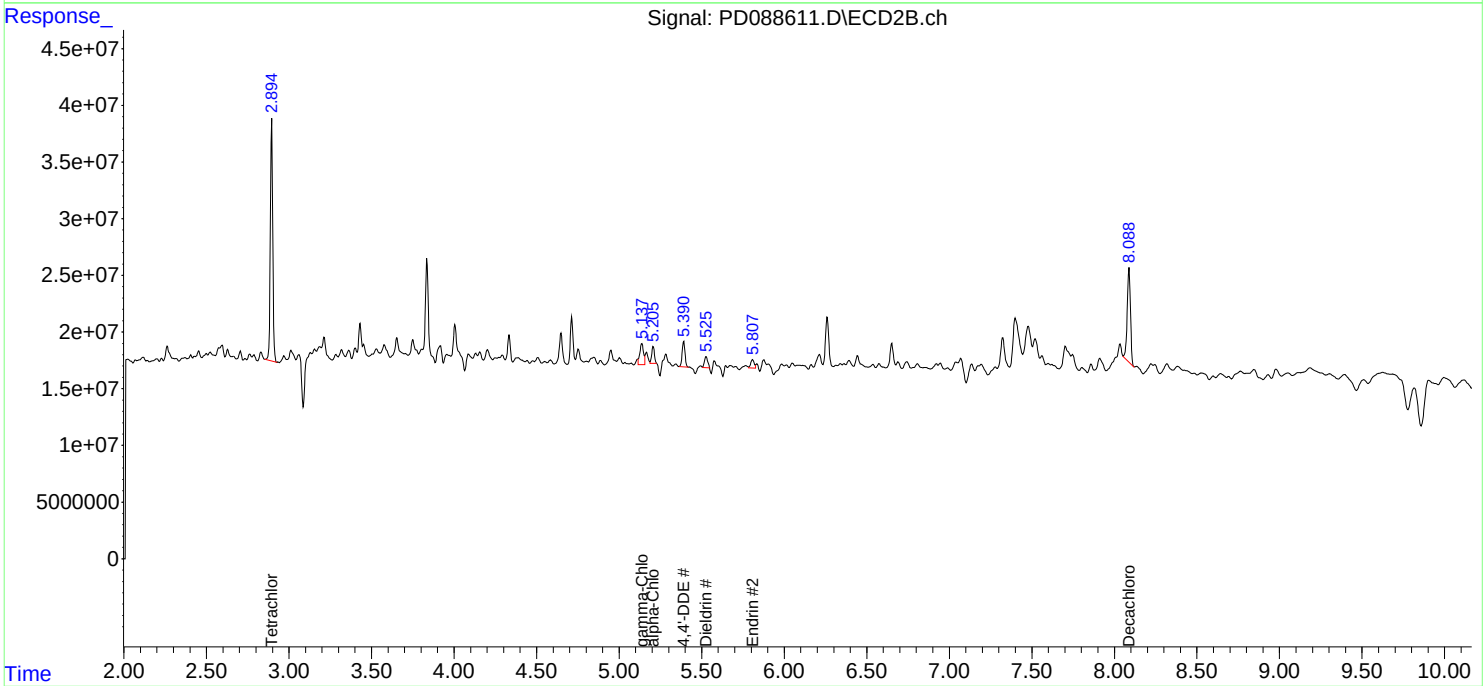
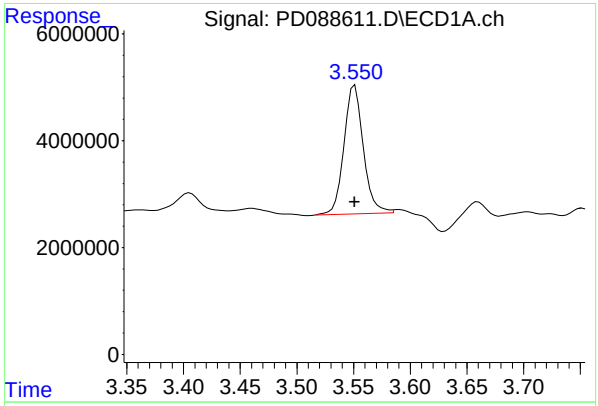
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:44:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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







#1 Tetrachloro-m-xylene

R.T.: 3.551 min
Delta R.T.: 0.000 mi
Response: 28568294
Conc: 13.20 ng/m

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725RE

Manual Integrations APPROVED

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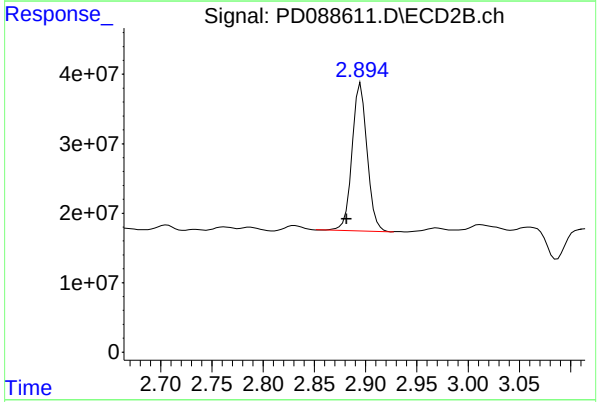
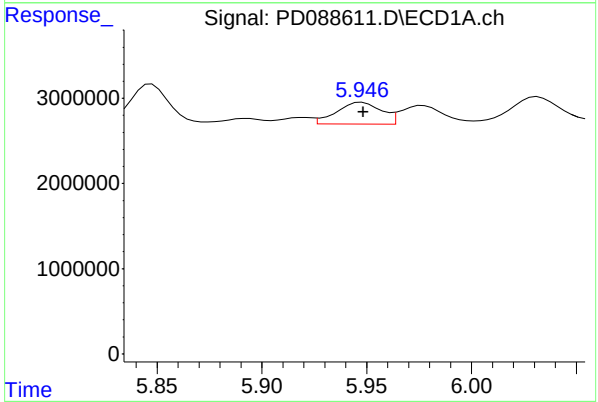


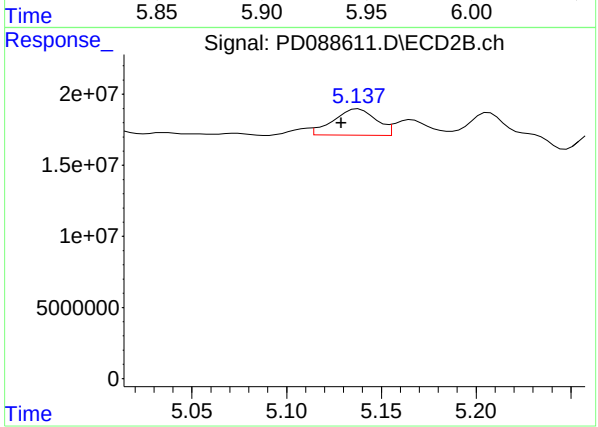
#1 Tetrachloro-m-xylene

R.T.: 2.895 min
Delta R.T.: 0.014 min
Response: 217634004
Conc: 14.39 ng/ml



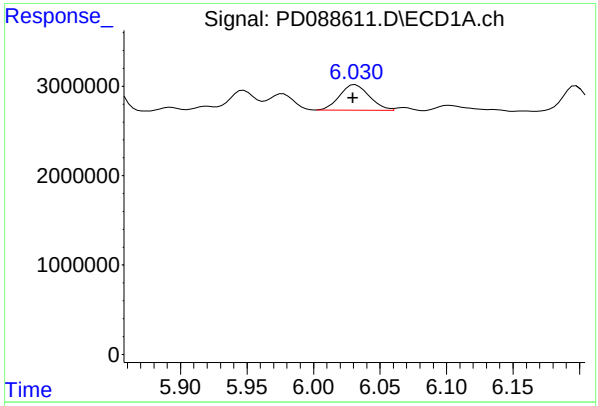
#10 gamma-Chlordane

R.T.: 5.946 min
Delta R.T.: -0.002 min
Response: 3657633
Conc: 0.92 ng/ml m



#10 gamma-Chlordane

R.T.: 5.137 min
Delta R.T.: 0.008 min
Response: 29790775
Conc: 1.40 ng/ml m



#11 alpha-Chlordane

R.T.: 6.032 min
Delta R.T.: 0.002 mi
Response: 4460110
Conc: 1.11 ng/m

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725RE

Manual Integrations APPROVED

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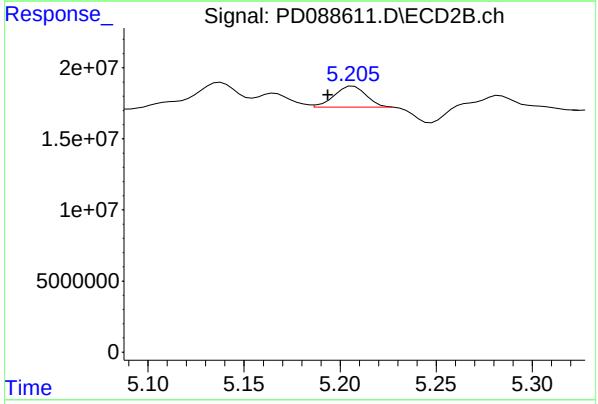
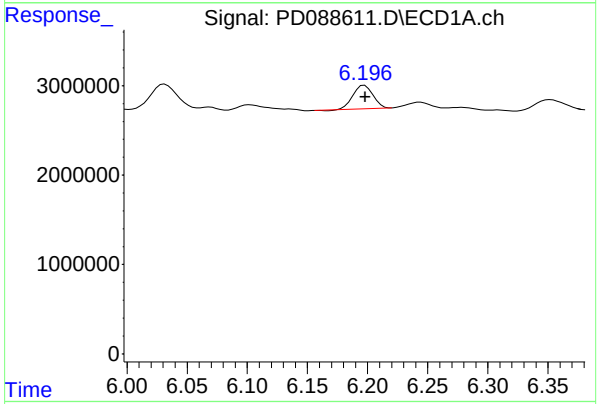
Supervised By :mohammad ahmed 05/21/2025



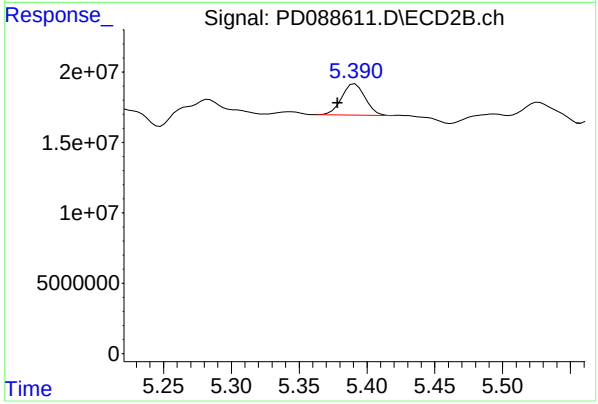
#11 alpha-Chlordane

R.T.: 5.205 min
Delta R.T.: 0.012 min
Response: 16900390
Conc: 0.82 ng/ml m



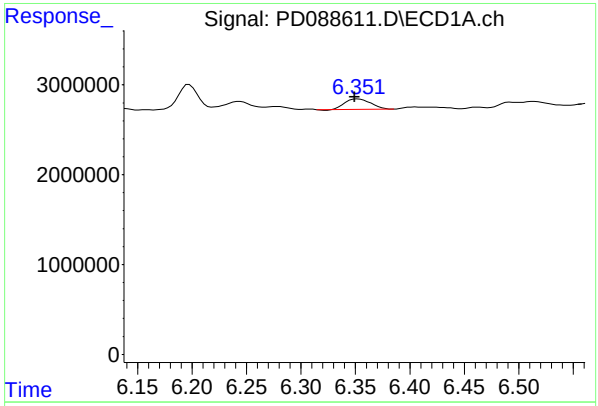
#12 4,4'-DDE

R.T.: 6.197 min
Delta R.T.: 0.000 min
Response: 3018402
Conc: 0.84 ng/ml



#12 4,4'-DDE

R.T.: 5.391 min
Delta R.T.: 0.013 min
Response: 26630395
Conc: 1.27 ng/ml



#13 Dieldrin

R.T.: 6.352 min
Delta R.T.: 0.003 mi
Response: 1881651
Conc: 0.47 ng/m

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725RE

Manual Integrations APPROVED

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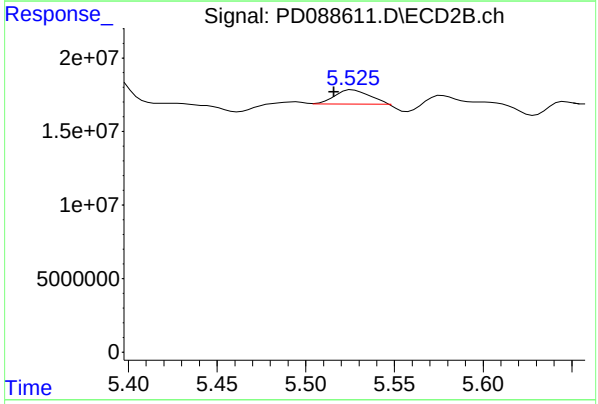
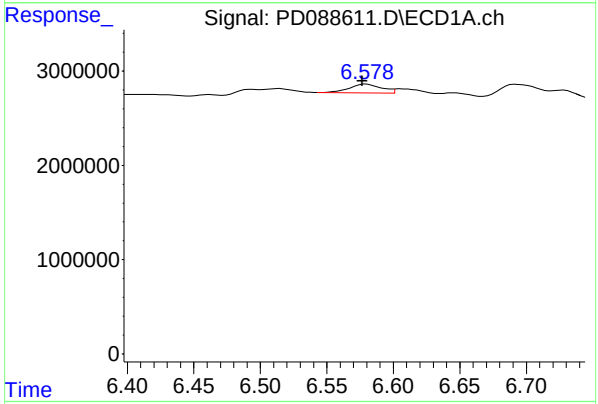
Supervised By :mohammad ahmed 05/21/2025



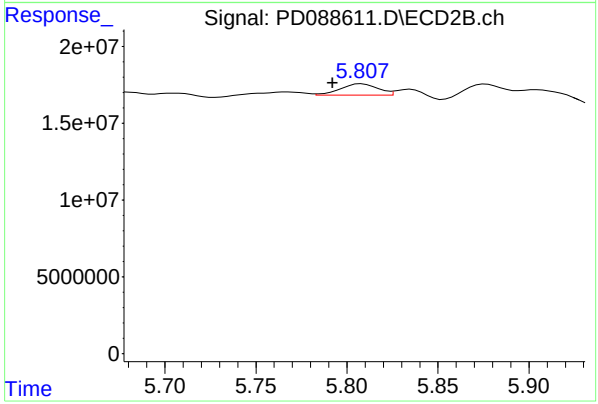
#13 Dieldrin

R.T.: 5.525 min
Delta R.T.: 0.009 min
Response: 13289314
Conc: 0.63 ng/ml m



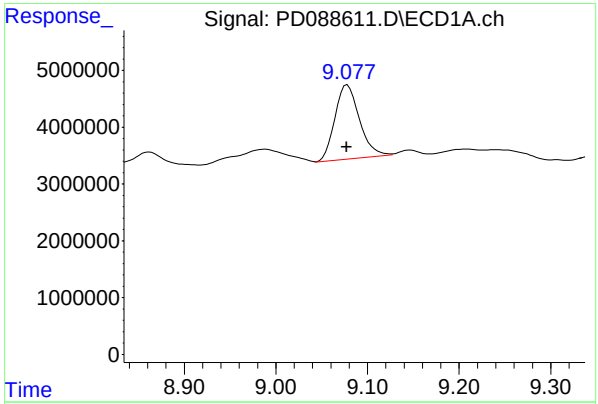
#14 Endrin

R.T.: 6.580 min
Delta R.T.: 0.003 min
Response: 1575243
Conc: 0.46 ng/ml



#14 Endrin

R.T.: 5.807 min
Delta R.T.: 0.015 min
Response: 10856543
Conc: 0.56 ng/ml m



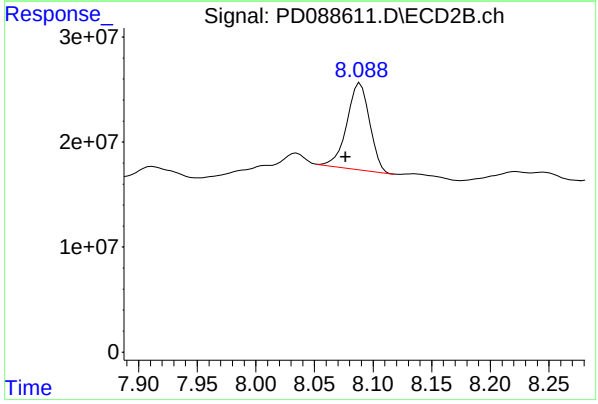
#28 Decachlorobiphenyl

R.T.: 9.077 min
Delta R.T.: 0.000 mi
Response: 24545728
Conc: 7.17 ng/m

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725RE

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



#28 Decachlorobiphenyl

R.T.: 8.088 min
Delta R.T.: 0.011 min
Response: 111796977
Conc: 6.12 ng/ml m

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-28-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-15	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	64.6 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088571.D	1	05/13/25 08:30	05/15/25 18:35	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
319-84-6	alpha-BHC	0.00051	U	0.00020	0.00051	0.0026	mg/Kg
319-85-7	beta-BHC	0.0013	U	0.00028	0.0013	0.0026	mg/Kg
319-86-8	delta-BHC	0.0013	U	0.00060	0.0013	0.0026	mg/Kg
58-89-9	gamma-BHC (Lindane)	0.00051	U	0.00022	0.00051	0.0026	mg/Kg
76-44-8	Heptachlor	0.00051	U	0.00019	0.00051	0.0026	mg/Kg
309-00-2	Aldrin	0.00051	U	0.00019	0.00051	0.0026	mg/Kg
1024-57-3	Heptachlor epoxide	0.0013	U	0.00029	0.0013	0.0026	mg/Kg
959-98-8	Endosulfan I	0.00051	U	0.00022	0.00051	0.0026	mg/Kg
60-57-1	Dieldrin	0.00039	J	0.00022	0.00051	0.0026	mg/Kg
72-55-9	4,4-DDE	0.00070	J	0.00022	0.00051	0.0026	mg/Kg
72-20-8	Endrin	0.00051	U	0.00022	0.00051	0.0026	mg/Kg
33213-65-9	Endosulfan II	0.0013	U	0.00045	0.0013	0.0026	mg/Kg
72-54-8	4,4-DDD	0.00051	U	0.00023	0.00051	0.0026	mg/Kg
1031-07-8	Endosulfan Sulfate	0.00051	U	0.00020	0.00051	0.0026	mg/Kg
50-29-3	4,4-DDT	0.00051	U	0.00022	0.00051	0.0026	mg/Kg
72-43-5	Methoxychlor	0.0013	U	0.00057	0.0013	0.0026	mg/Kg
53494-70-5	Endrin ketone	0.0013	U	0.00029	0.0013	0.0026	mg/Kg
7421-93-4	Endrin aldehyde	0.0013	U	0.00057	0.0013	0.0026	mg/Kg
5103-71-9	alpha-Chlordane	0.00082	JP	0.00019	0.00051	0.0026	mg/Kg
5103-74-2	gamma-Chlordane	0.00076	JP	0.00023	0.00051	0.0026	mg/Kg
8001-35-2	Toxaphene	0.026	U	0.0084	0.026	0.051	mg/Kg
SURROGATES							
2051-24-3	Decachlorobiphenyl	7.49	*	55 - 130		37%	SPK: 20
877-09-8	Tetrachloro-m-xylene	13.6		42 - 129		68%	SPK: 20

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-28-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-15	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	64.6 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088571.D	1	05/13/25 08:30	05/15/25 18:35	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_D\Data\PD051525\
Data File : PD088571.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 18:35
Operator : AR\AJ
Sample : Q1984-15
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:21:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.552	2.882	27159112	195.4E6	13.597	13.362
28)	SA Decachlor...	9.076	8.074	24779218	97855014	7.490m	5.295m#
	Target Compounds						
10)	B gamma-Chl...	5.946	5.123	3408773	29915936	0.941m	1.474m#
11)	B alpha-Chl...	6.031	5.192	5744097	17943447	1.591	0.915m#
12)	B 4,4'-DDE	6.196	5.377	3484522	26575589	1.056m	1.349 #
13)	MA Dieldrin	6.351	5.512	2390413	15029827	0.670m	0.754

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

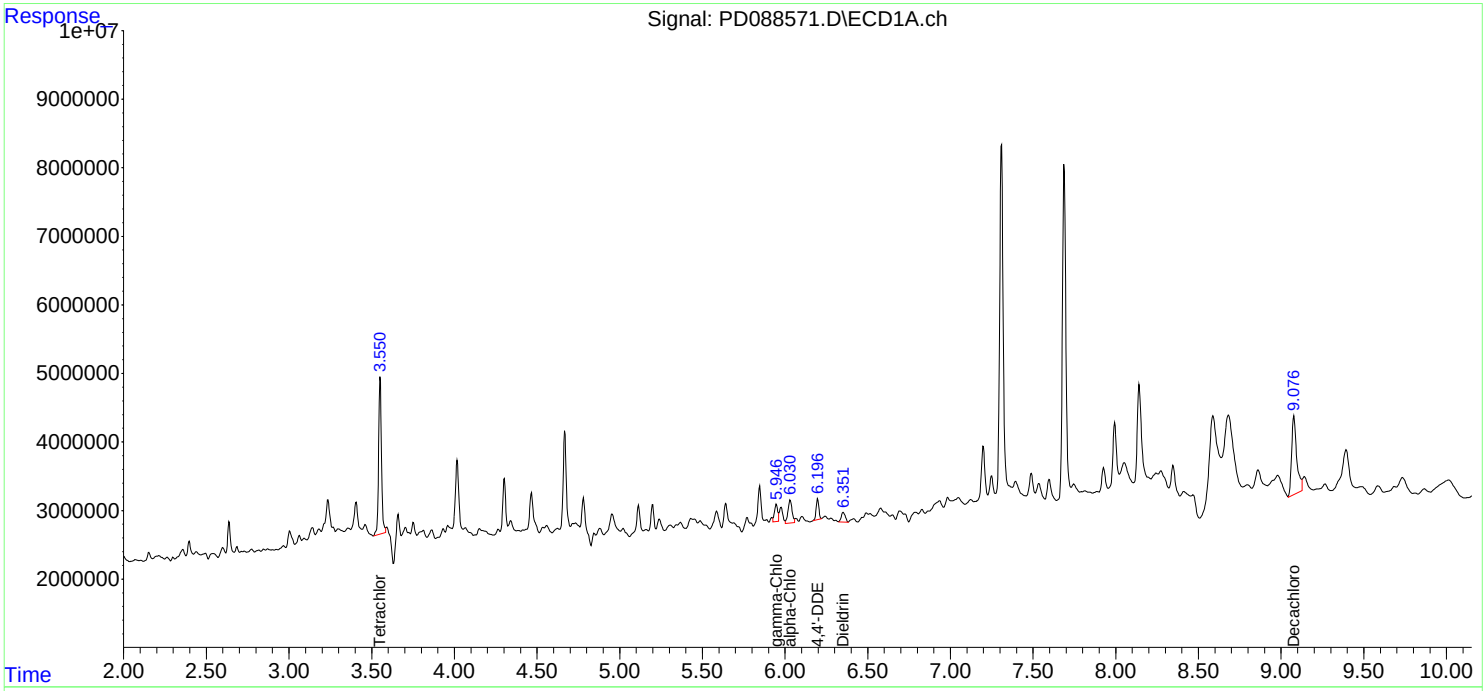
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088571.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 18:35
Operator : AR\AJ
Sample : Q1984-15
Misc :
ALS Vial : 18 Sample Multiplier: 1

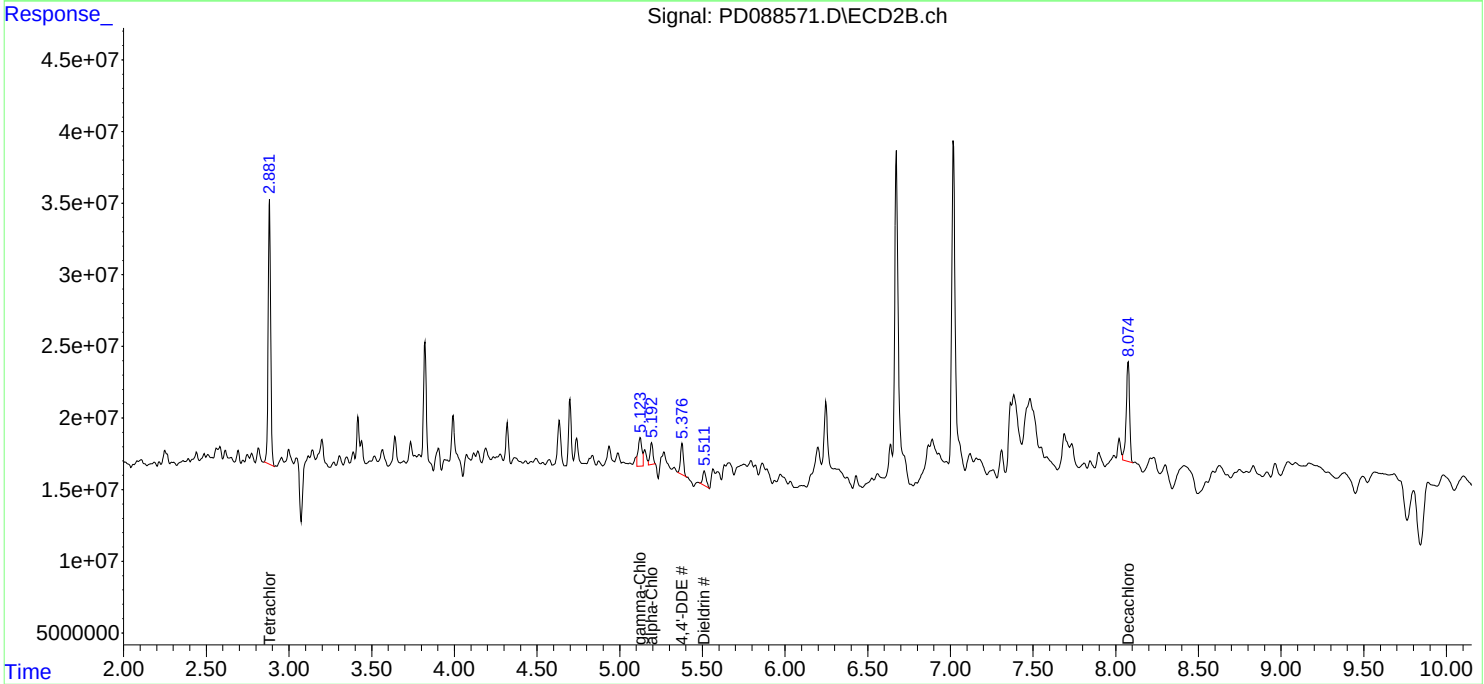
Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725

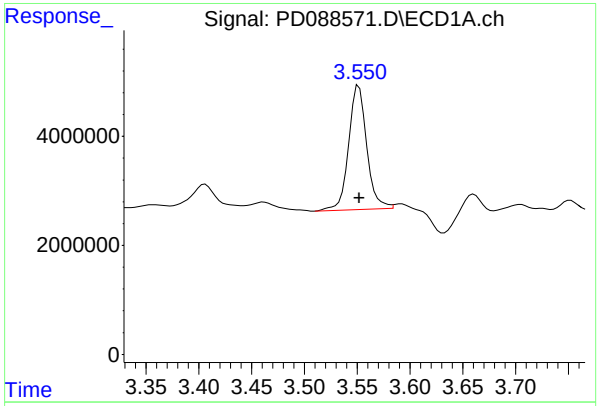
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:21:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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







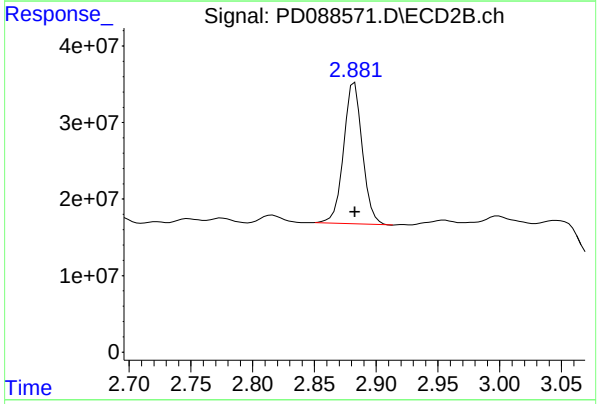
#1 Tetrachloro-m-xylene

R.T.: 3.552 min
Delta R.T.: 0.000 mi
Response: 27159112
Conc: 13.60 ng/m

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725

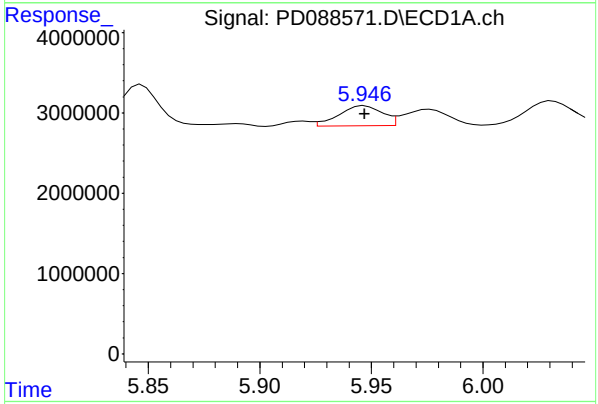
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



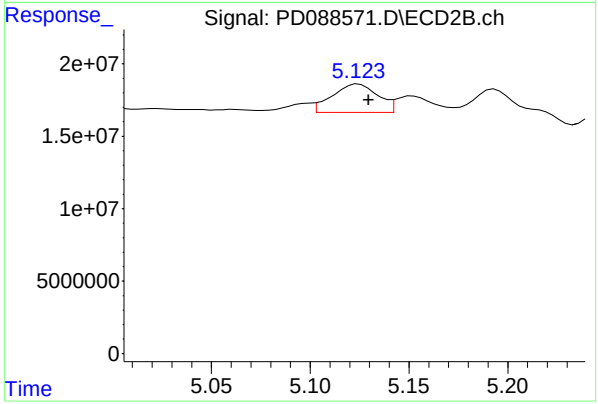
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 195373605
Conc: 13.36 ng/ml



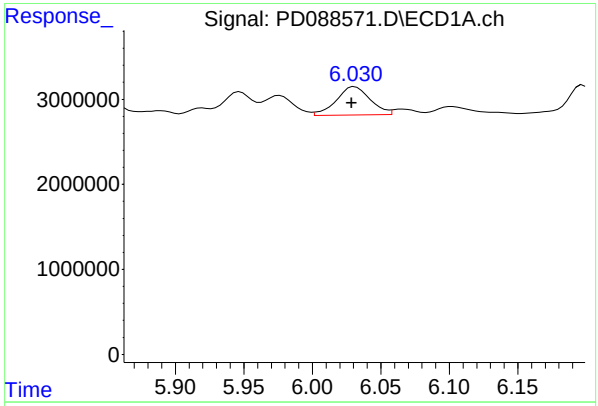
#10 gamma-Chlordane

R.T.: 5.946 min
Delta R.T.: -0.001 min
Response: 3408773
Conc: 0.94 ng/ml m



#10 gamma-Chlordane

R.T.: 5.123 min
Delta R.T.: -0.006 min
Response: 29915936
Conc: 1.47 ng/ml m



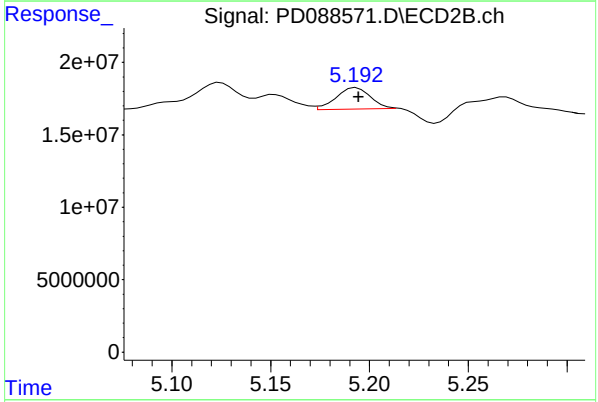
#11 alpha-Chlordane

R.T.: 6.031 min
Delta R.T.: 0.002 mi
Response: 5744097
Conc: 1.59 ng/m

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725

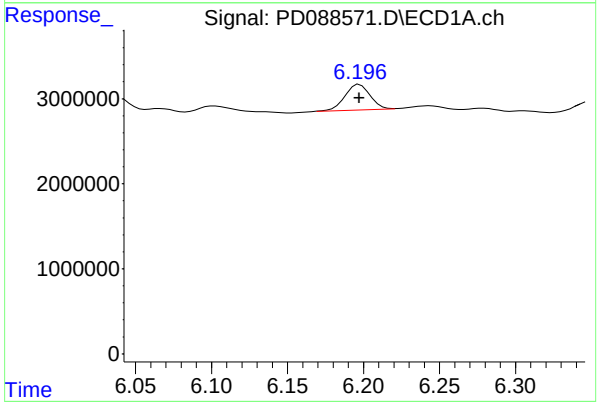
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



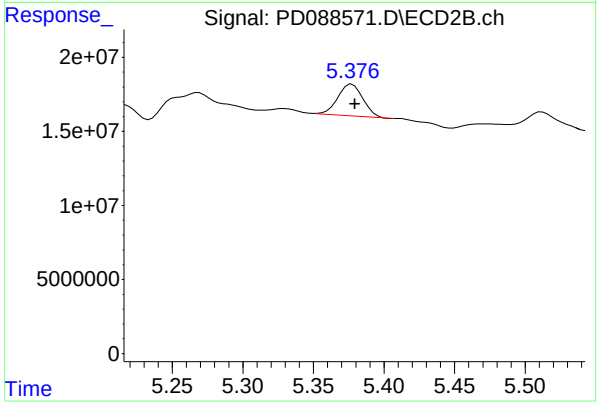
#11 alpha-Chlordane

R.T.: 5.192 min
Delta R.T.: -0.003 min
Response: 17943447
Conc: 0.92 ng/ml m



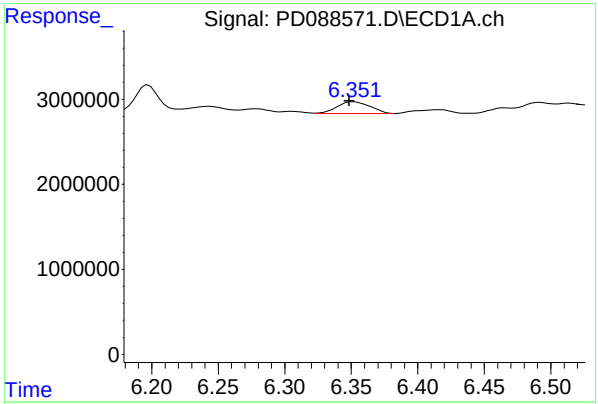
#12 4,4'-DDE

R.T.: 6.196 min
Delta R.T.: -0.001 min
Response: 3484522
Conc: 1.06 ng/ml m



#12 4,4'-DDE

R.T.: 5.377 min
Delta R.T.: -0.002 min
Response: 26575589
Conc: 1.35 ng/ml



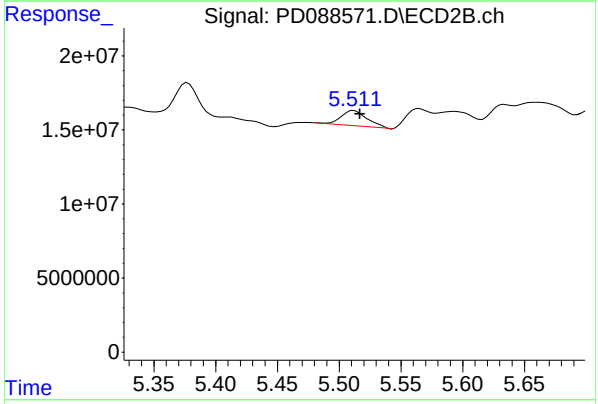
#13 Dieldrin

R.T.: 6.351 min
Delta R.T.: 0.002 mi
Response: 2390413
Conc: 0.67 ng/m

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725

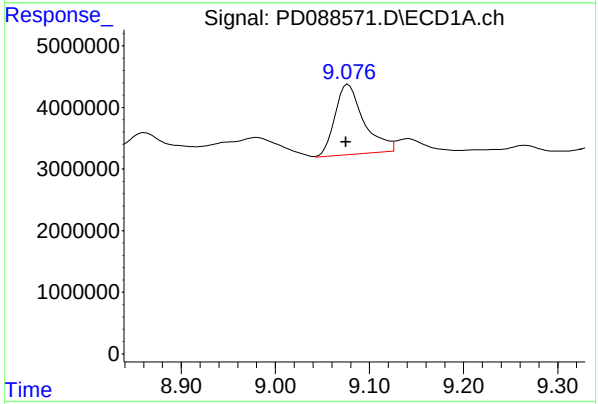
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



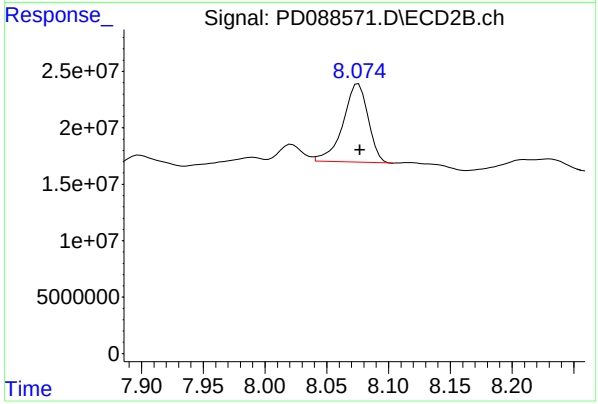
#13 Dieldrin

R.T.: 5.512 min
Delta R.T.: -0.005 min
Response: 15029827
Conc: 0.75 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.076 min
Delta R.T.: 0.000 min
Response: 24779218
Conc: 7.49 ng/ml m



#28 Decachlorobiphenyl

R.T.: 8.074 min
Delta R.T.: -0.003 min
Response: 97855014
Conc: 5.30 ng/ml m

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-28-050725RE	SDG No.:	Q1984
Lab Sample ID:	Q1984-15RE	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	64.6 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088612.D	1	05/13/25 08:30	05/19/25 17:31	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
319-84-6	alpha-BHC	0.00051	U	0.00020	0.00051	0.0026	mg/Kg
319-85-7	beta-BHC	0.0013	U	0.00028	0.0013	0.0026	mg/Kg
319-86-8	delta-BHC	0.0013	U	0.00060	0.0013	0.0026	mg/Kg
58-89-9	gamma-BHC (Lindane)	0.00051	U	0.00022	0.00051	0.0026	mg/Kg
76-44-8	Heptachlor	0.00051	U	0.00019	0.00051	0.0026	mg/Kg
309-00-2	Aldrin	0.00051	U	0.00019	0.00051	0.0026	mg/Kg
1024-57-3	Heptachlor epoxide	0.0013	U	0.00029	0.0013	0.0026	mg/Kg
959-98-8	Endosulfan I	0.00051	U	0.00022	0.00051	0.0026	mg/Kg
60-57-1	Dieldrin	0.00048	JP	0.00022	0.00051	0.0026	mg/Kg
72-55-9	4,4-DDE	0.00079	JP	0.00022	0.00051	0.0026	mg/Kg
72-20-8	Endrin	0.00051	U	0.00022	0.00051	0.0026	mg/Kg
33213-65-9	Endosulfan II	0.0013	U	0.00045	0.0013	0.0026	mg/Kg
72-54-8	4,4-DDD	0.00051	U	0.00023	0.00051	0.0026	mg/Kg
1031-07-8	Endosulfan Sulfate	0.00051	U	0.00020	0.00051	0.0026	mg/Kg
50-29-3	4,4-DDT	0.00051	U	0.00022	0.00051	0.0026	mg/Kg
72-43-5	Methoxychlor	0.0013	U	0.00057	0.0013	0.0026	mg/Kg
53494-70-5	Endrin ketone	0.0013	U	0.00029	0.0013	0.0026	mg/Kg
7421-93-4	Endrin aldehyde	0.0013	U	0.00057	0.0013	0.0026	mg/Kg
5103-71-9	alpha-Chlordane	0.00058	J	0.00019	0.00051	0.0026	mg/Kg
5103-74-2	gamma-Chlordane	0.00072	JP	0.00023	0.00051	0.0026	mg/Kg
8001-35-2	Toxaphene	0.026	U	0.0084	0.026	0.051	mg/Kg
SURROGATES							
2051-24-3	Decachlorobiphenyl	5.37	*	55 - 130		27%	SPK: 20
877-09-8	Tetrachloro-m-xylene	13.3		42 - 129		66%	SPK: 20

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Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-28-050725RE	SDG No.:	Q1984
Lab Sample ID:	Q1984-15RE	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	64.6 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088612.D	1	05/13/25 08:30	05/19/25 17:31	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

Comments:

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J = Estimated Value
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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_D\Data\PD051925\
Data File : PD088612.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 17:31
Operator : AR\AJ
Sample : Q1984-15RE
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725RE

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:44:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.552	2.883	26801209	200.5E6	12.386	13.254
28)	SA Decachlor...	9.078	8.075	18373391	93278110	5.369m	5.109m
	Target Compounds						
10)	B gamma-Chl...	5.948	5.123	3029290	29759489	0.759	1.395m#
11)	B alpha-Chl...	6.032	5.192	4498268	20328186	1.123	0.986m
12)	B 4,4'-DDE	6.198	5.376	3521912	32225956	0.981	1.542m#
13)	MA Dieldrin	6.352	5.513	1873444	19623560	0.467	0.933 #

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

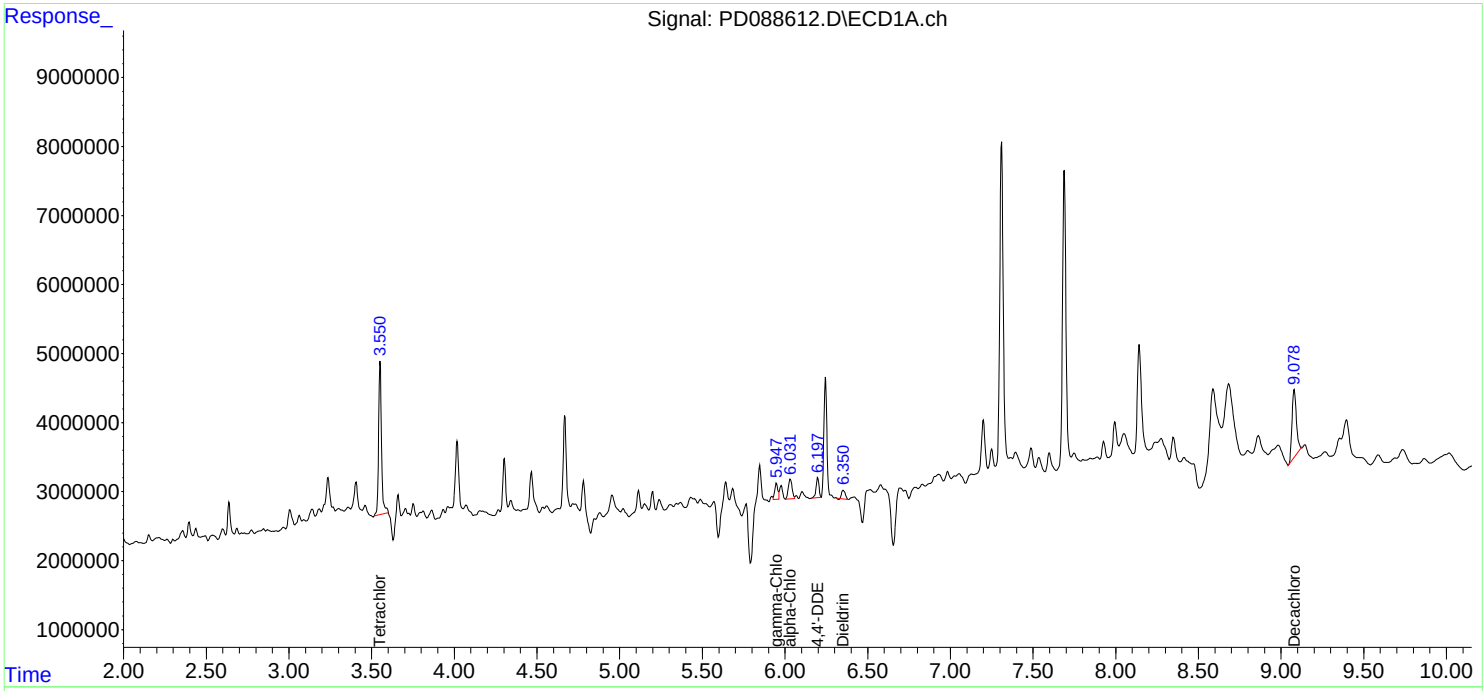
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088612.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 17:31
Operator : AR\AJ
Sample : Q1984-15RE
Misc :
ALS Vial : 27 Sample Multiplier: 1

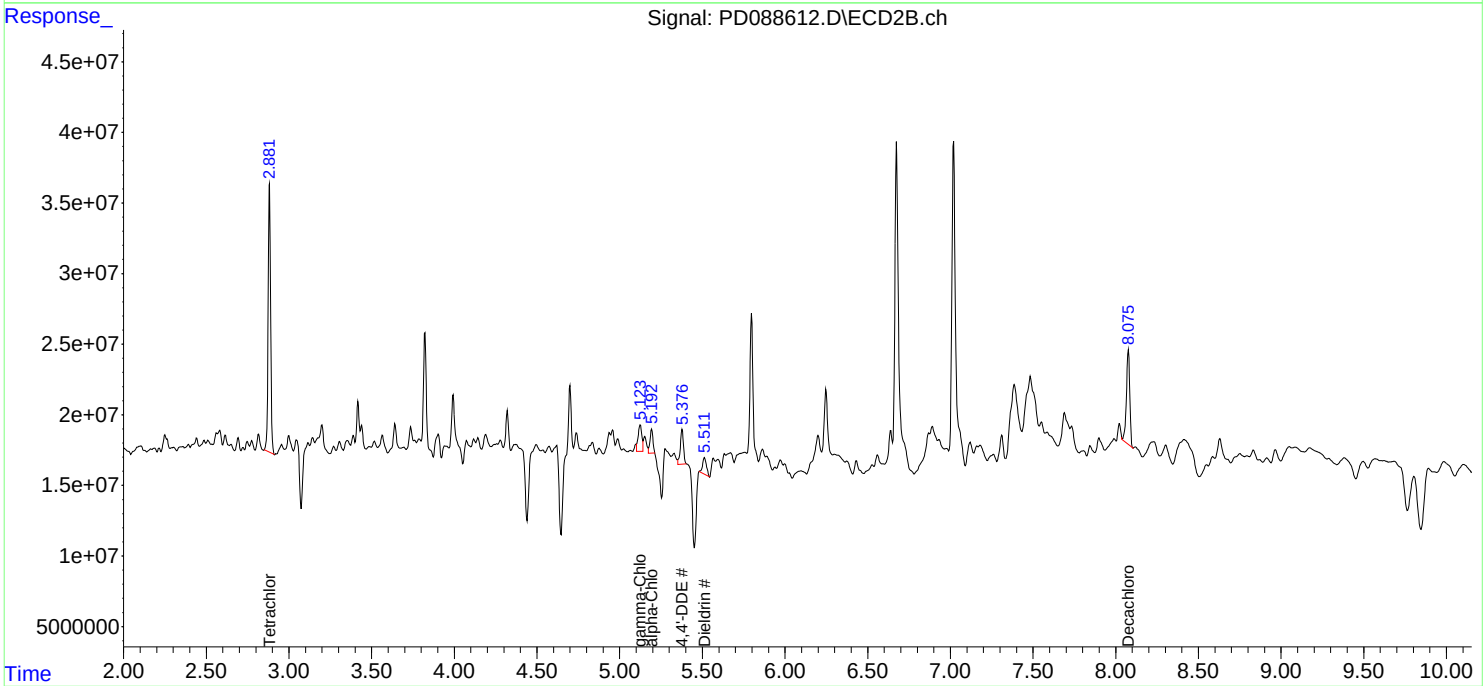
Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725RE

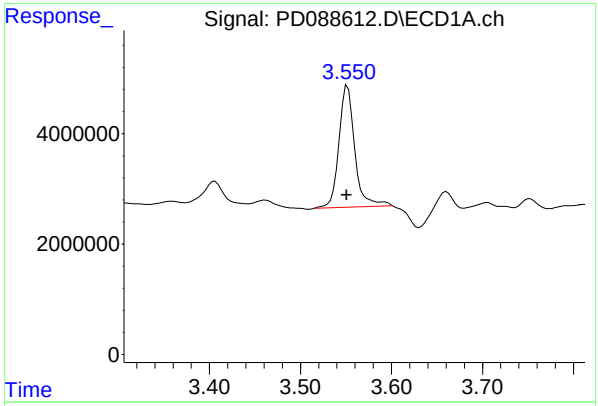
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:44:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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







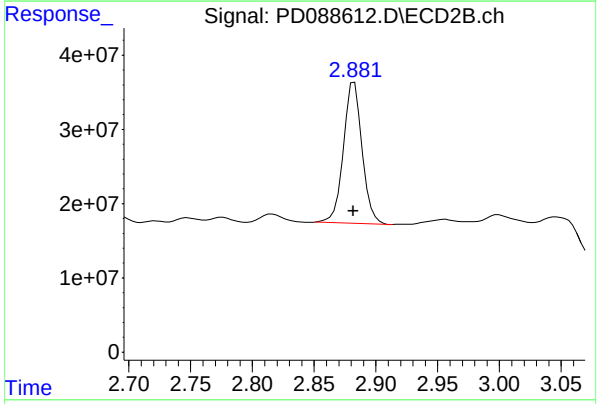
#1 Tetrachloro-m-xylene

R.T.: 3.552 min
Delta R.T.: 0.000 min
Response: 26801209
Conc: 12.39 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725RE

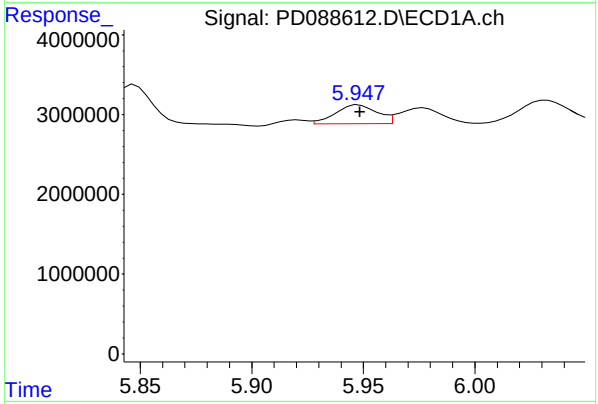
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



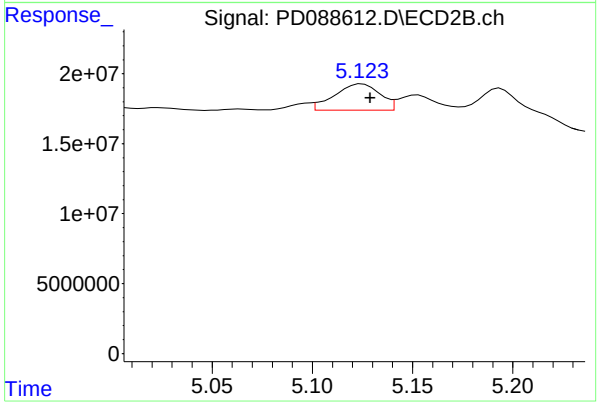
#1 Tetrachloro-m-xylene

R.T.: 2.883 min
Delta R.T.: 0.000 min
Response: 200487410
Conc: 13.25 ng/ml



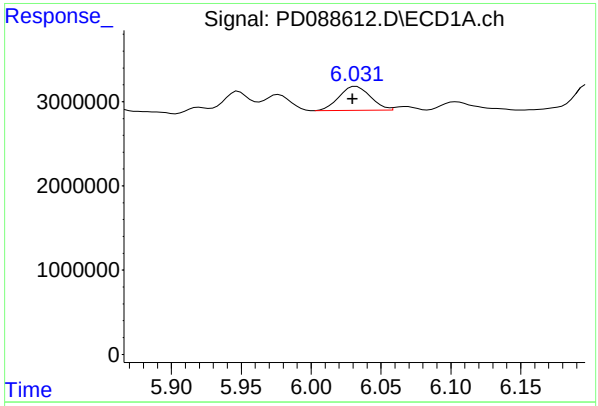
#10 gamma-Chlordane

R.T.: 5.948 min
Delta R.T.: 0.000 min
Response: 3029290
Conc: 0.76 ng/ml



#10 gamma-Chlordane

R.T.: 5.123 min
Delta R.T.: -0.005 min
Response: 29759489
Conc: 1.40 ng/ml m



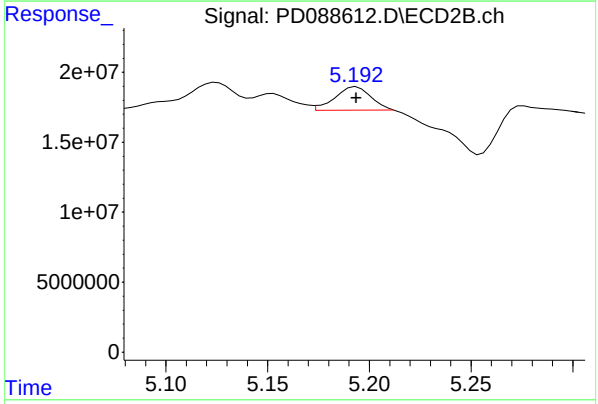
#11 alpha-Chlordane

R.T.: 6.032 min
Delta R.T.: 0.002 mi
Response: 4498268
Conc: 1.12 ng/m

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725RE

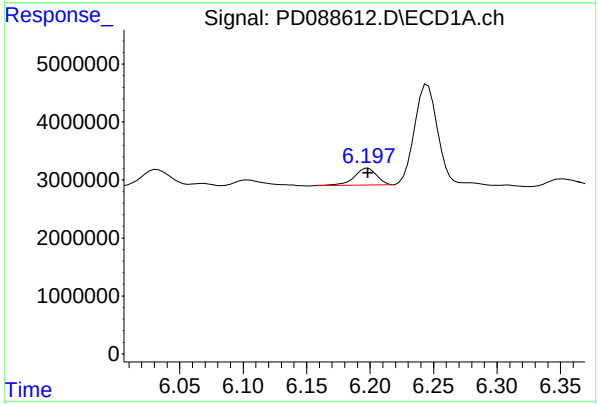
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



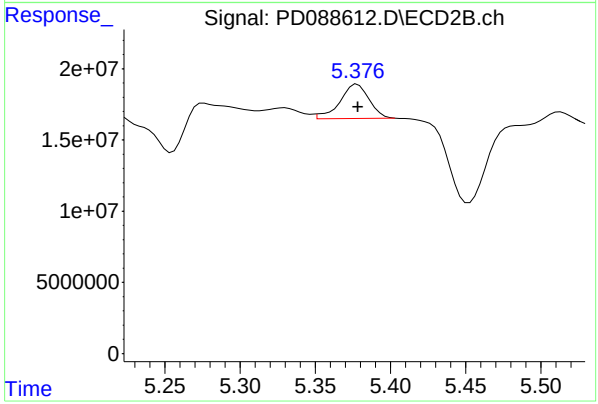
#11 alpha-Chlordane

R.T.: 5.192 min
Delta R.T.: -0.001 min
Response: 20328186
Conc: 0.99 ng/ml m



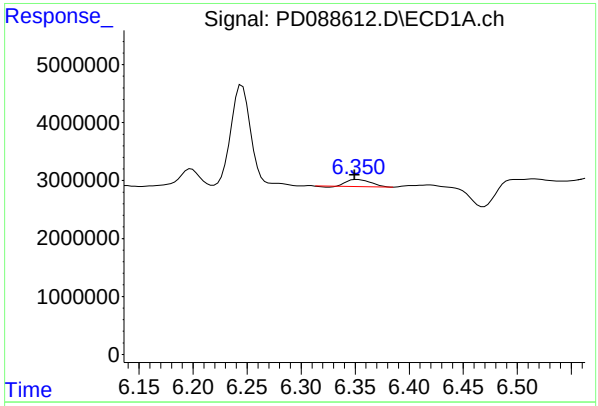
#12 4,4'-DDE

R.T.: 6.198 min
Delta R.T.: 0.000 min
Response: 3521912
Conc: 0.98 ng/ml



#12 4,4'-DDE

R.T.: 5.376 min
Delta R.T.: -0.002 min
Response: 32225956
Conc: 1.54 ng/ml m



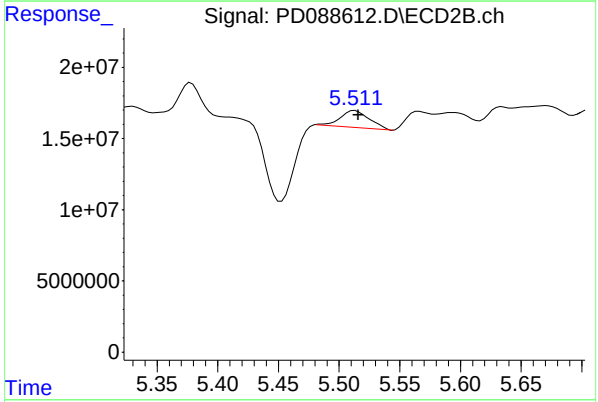
#13 Dieldrin

R.T.: 6.352 min
Delta R.T.: 0.002 mi
Response: 1873444
Conc: 0.47 ng/m

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725RE

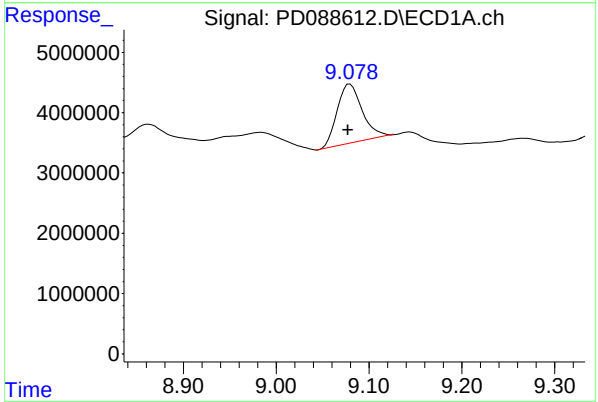
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



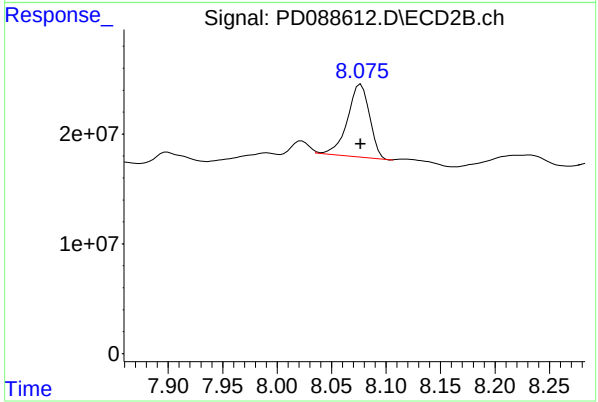
#13 Dieldrin

R.T.: 5.513 min
Delta R.T.: -0.003 min
Response: 19623560
Conc: 0.93 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.078 min
Delta R.T.: 0.000 min
Response: 18373391
Conc: 5.37 ng/ml m



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.001 min
Response: 93278110
Conc: 5.11 ng/ml m

CALIBRATION SUMMARY

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

RETENTION TIMES OF INITIAL CALIBRATION

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Instrument ID: ECD_D **Calibration Date(s):** 04/18/2025 04/18/2025

Calibration Times: 13:56 14:51

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

LAB FILE ID: RT 100 = PD088124.D RT 075 = PD088125.D

RT 050 = PD088126.D RT 025 = PD088127.D RT 005 = PD088128.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4,4'-DDD	6.71	6.71	6.71	6.71	6.71	6.71	6.61	6.81
4,4'-DDE	6.20	6.20	6.20	6.20	6.20	6.20	6.10	6.30
4,4'-DDT	7.02	7.02	7.02	7.02	7.02	7.02	6.92	7.12
Aldrin	5.27	5.27	5.27	5.27	5.27	5.27	5.17	5.37
alpha-BHC	4.00	4.00	4.00	4.00	4.00	4.00	3.90	4.10
alpha-Chlordane	6.03	6.03	6.03	6.03	6.03	6.03	5.93	6.13
beta-BHC	4.52	4.52	4.52	4.52	4.52	4.52	4.42	4.62
Decachlorobiphenyl	9.08	9.07	9.08	9.08	9.08	9.07	8.97	9.17
delta-BHC	4.77	4.77	4.77	4.77	4.76	4.76	4.66	4.86
Dieldrin	6.35	6.35	6.35	6.35	6.35	6.35	6.25	6.45
Endosulfan I	6.08	6.08	6.08	6.08	6.08	6.08	5.98	6.18
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	7.15	7.15	7.15	7.05	7.25
Endrin	6.58	6.58	6.58	6.58	6.58	6.58	6.48	6.68
Endrin aldehyde	6.92	6.92	6.92	6.92	6.92	6.92	6.82	7.02
Endrin ketone	7.63	7.63	7.63	7.63	7.63	7.63	7.53	7.73
gamma-BHC (Lindane)	4.33	4.33	4.33	4.33	4.33	4.33	4.23	4.43
gamma-Chlordane	5.95	5.95	5.95	5.95	5.95	5.95	5.85	6.05
Heptachlor	4.93	4.93	4.93	4.93	4.93	4.93	4.83	5.03
Heptachlor epoxide	5.69	5.69	5.69	5.69	5.69	5.69	5.59	5.79
Methoxychlor	7.49	7.49	7.50	7.50	7.50	7.49	7.39	7.59
Tetrachloro-m-xylene	3.55	3.55	3.55	3.55	3.55	3.55	3.45	3.65

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Instrument ID: ECD_D **Calibration Date(s):** 04/18/2025 04/18/2025

Calibration Times: 13:56 14:51

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

LAB FILE ID: RT 100 = PD088124.D RT 075 = PD088125.D

RT 050 = PD088126.D RT 025 = PD088127.D RT 005 = PD088128.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4,4'-DDD	5.95	5.93	5.93	5.93	5.93	5.94	5.84	6.04
4,4'-DDE	5.40	5.38	5.38	5.38	5.38	5.38	5.28	5.48
4,4'-DDT	6.20	6.19	6.19	6.19	6.19	6.19	6.09	6.29
Aldrin	4.39	4.37	4.37	4.37	4.37	4.38	4.28	4.48
alpha-BHC	3.41	3.40	3.40	3.40	3.40	3.40	3.30	3.50
alpha-Chlordane	5.21	5.20	5.19	5.19	5.19	5.20	5.10	5.30
beta-BHC	4.05	4.03	4.03	4.03	4.03	4.03	3.93	4.13
Decachlorobiphenyl	8.09	8.08	8.08	8.08	8.08	8.08	7.98	8.18
delta-BHC	4.28	4.27	4.27	4.27	4.27	4.27	4.17	4.37
Dieldrin	5.53	5.52	5.52	5.52	5.52	5.52	5.42	5.62
Endosulfan I	5.27	5.25	5.25	5.25	5.25	5.25	5.15	5.35
Endosulfan II	6.10	6.08	6.08	6.09	6.08	6.09	5.99	6.19
Endosulfan sulfate	6.50	6.49	6.49	6.49	6.49	6.49	6.39	6.59
Endrin	5.81	5.79	5.79	5.79	5.79	5.80	5.70	5.90
Endrin aldehyde	6.28	6.26	6.26	6.26	6.26	6.27	6.17	6.37
Endrin ketone	7.01	7.00	7.00	7.00	7.00	7.00	6.90	7.10
gamma-BHC (Lindane)	3.75	3.73	3.73	3.73	3.73	3.74	3.64	3.84
gamma-Chlordane	5.15	5.13	5.13	5.13	5.13	5.13	5.03	5.23
Heptachlor	4.10	4.09	4.09	4.09	4.09	4.09	3.99	4.19
Heptachlor epoxide	4.89	4.88	4.88	4.88	4.88	4.88	4.78	4.98
Methoxychlor	6.77	6.76	6.76	6.76	6.76	6.76	6.66	6.86
Tetrachloro-m-xylene	2.90	2.88	2.88	2.88	2.88	2.89	2.79	2.99

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Instrument ID: ECD_D **Calibration Date(s):** 04/18/2025 04/18/2025

Calibration Times: 13:56 14:51

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

LAB FILE ID: **CF 100 =** PD088124.D **CF 075 =** PD088125.D

CF 050 = PD088126.D **CF 025 =** PD088127.D **CF 005 =** PD088128.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	2657600000	2587000000	2495010000	2376000000	2459180000	2514960000	4
4,4'-DDE	3466910000	3527170000	3240150000	3071100000	3185920000	3298250000	6
4,4'-DDT	2923480000	2868140000	2755010000	2629860000	2711210000	2777540000	4
Aldrin	4191470000	4069870000	3911790000	3719150000	3855640000	3949580000	5
alpha-BHC	4782950000	4593760000	4340800000	3973660000	3868810000	4312000000	9
alpha-Chlordane	3710340000	3625070000	3529520000	3426410000	3756540000	3609580000	4
beta-BHC	1604490000	1589200000	1578990000	1584140000	1760080000	1623380000	5
Decachlorobiphenyl	3080820000	3141130000	3178140000	3290360000	3850090000	3308110000	9
delta-BHC	4445160000	4282700000	4075760000	3850890000	3970360000	4124970000	6
Dieldrin	3750160000	3656120000	3530390000	3371440000	3534380000	3568500000	4
Endosulfan I	3450340000	3397670000	3304040000	3218140000	3515550000	3377150000	3
Endosulfan II	3104130000	3060790000	3007520000	2974690000	3483940000	3126210000	7
Endosulfan sulfate	2896970000	2846150000	2807570000	2774020000	3054470000	2875840000	4
Endrin	3128180000	3077300000	2935450000	2806460000	2965440000	2982570000	4
Endrin aldehyde	2295010000	2267800000	2246870000	2234480000	2495770000	2307990000	5
Endrin ketone	3128590000	3073520000	3037500000	2978380000	3214900000	3086580000	3
gamma-BHC (Lindane)	4507210000	4365130000	4155030000	3887470000	4022700000	4187510000	6
gamma-Chlordane	3757550000	3698080000	3536270000	3403020000	3715340000	3622050000	4
Heptachlor	4264490000	4159110000	3978190000	3781390000	4011590000	4038950000	5
Heptachlor epoxide	3670910000	3598060000	3486330000	3389810000	3724620000	3573950000	4
Methoxychlor	1461300000	1466360000	1467850000	1483290000	1618930000	1499540000	4
Tetrachloro-m-xylene	1982340000	2006790000	1938680000	1923660000	2135510000	1997400000	4

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Instrument ID: ECD_D **Calibration Date(s):** 04/18/2025 04/18/2025

Calibration Times: 13:56 14:51

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

LAB FILE ID: **CF 100 =** PD088124.D **CF 075 =** PD088125.D

CF 050 = PD088126.D **CF 025 =** PD088127.D **CF 005 =** PD088128.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	15154700000	15403900000	15792200000	16361000000	19219200000	16386200000	10
4,4'-DDE	18345500000	18580000000	18872600000	19581800000	23090100000	19694000000	10
4,4'-DDT	16431600000	16496500000	16745700000	17063800000	18344900000	17016500000	5
Aldrin	19439700000	19604700000	20000000000	20715500000	24254000000	20802800000	10
alpha-BHC	21913500000	21830800000	22090400000	22519000000	25954000000	22861500000	8
alpha-Chlordane	18192600000	18348900000	18755200000	19456000000	23261200000	19602800000	11
beta-BHC	8473900000	8575290000	8847480000	9292470000	11081500000	9254120000	12
Decachlorobiphenyl	16767000000	17098200000	17470300000	18387600000	22674800000	18479600000	13
delta-BHC	20178700000	20191000000	20473400000	21031900000	24432800000	21261600000	9
Dieldrin	18536800000	18713100000	19146400000	19886400000	23381600000	19932900000	10
Endosulfan I	16448300000	16734000000	17246700000	18063400000	21569900000	18012500000	12
Endosulfan II	16009800000	16237000000	16737800000	17531800000	21092000000	17521700000	12
Endosulfan sulfate	15629000000	15901000000	16419300000	17200300000	20516600000	17133200000	12
Endrin	16756200000	17001500000	17464500000	18215500000	21574100000	18202300000	11
Endrin aldehyde	12064300000	12278200000	12707200000	13348200000	16106900000	13301000000	12
Endrin ketone	16996600000	17264900000	17905300000	18780200000	22573200000	18704000000	12
gamma-BHC (Lindane)	20140800000	20226900000	20558100000	21137200000	25630400000	21538700000	11
gamma-Chlordane	18960000000	19062800000	19437200000	20086800000	23933100000	20296000000	10
Heptachlor	19826900000	20021500000	20522700000	21298800000	25320700000	21398100000	11
Heptachlor epoxide	17359900000	17576100000	18079700000	18879200000	22576700000	18894300000	11
Methoxychlor	8272330000	8467510000	8839240000	9290490000	10735700000	9121060000	11
Tetrachloro-m-xylene	13615300000	13685800000	14010800000	14551200000	17245000000	14621600000	10

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Instrument ID: ECD_D **Date(s) Analyzed:** 04/18/2025 04/18/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	500	1	6.24	6.14	6.34	23597900
		2	6.44	6.34	6.54	34064600
		3	7.15	7.05	7.25	65326300
		4	7.57	7.47	7.67	82045400
		5	7.93	7.83	8.03	47715200

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Fax : 908 789 8922

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Instrument ID: ECD_D **Date(s) Analyzed:** 04/18/2025 04/18/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	500	1	5.48	5.38	5.58	130682000
		2	5.65	5.55	5.75	89513500
		3	6.76	6.66	6.86	417352000
		4	7.20	7.10	7.30	302911000
		5	7.33	7.23	7.43	207761000

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088124.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 13:56
Operator : AR\AJ
Sample : PSTDICC100
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC100

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/19/2025
Supervised By :mohammad ahmed 04/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 04:25:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 04:25:16 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.551	2.900	198.2E6	1361.5E6	101.114	98.568
28)	SA Decachlor...	9.075	8.093	308.1E6	1676.7E6	98.445	97.946
	Target Compounds						
2)	A alpha-BHC	4.001	3.413	478.3E6	2191.3E6	104.846	99.598
3)	MA gamma-BHC...	4.332	3.749	450.7E6	2014.1E6	104.066	98.975
4)	MA Heptachlor	4.931	4.103	426.4E6	1982.7E6	103.473	98.276
5)	MB Aldrin	5.273	4.389	419.1E6	1944.0E6	103.451	98.579
6)	B beta-BHC	4.516	4.045	160.4E6	847.4E6	100.801	97.843
7)	B delta-BHC	4.765	4.282	444.5E6	2017.9E6	104.335	99.275
8)	B Heptachlo...	5.693	4.892	367.1E6	1736.0E6	102.579	98.354m
9)	A Endosulfan I	6.076	5.268	345.0E6	1644.8E6	102.166	97.631
10)	B gamma-Chl...	5.947	5.146	375.8E6	1896.0E6	103.034	98.757
11)	B alpha-Chl...	6.029	5.211	371.0E6	1819.3E6	102.498	98.477
12)	B 4,4'-DDE	6.197	5.396	346.7E6	1834.5E6	103.381	98.584
13)	MA Dieldrin	6.349	5.533	375.0E6	1853.7E6	103.019	98.382
14)	MA Endrin	6.576	5.810	312.8E6	1675.6E6	103.179	97.930
15)	B Endosulfa...	6.787	6.101	310.4E6	1601.0E6	101.581	97.777
16)	A 4,4'-DDD	6.706	5.950	265.8E6	1515.5E6	103.156	97.940
17)	MA 4,4'-DDT	7.023	6.204	292.3E6	1643.2E6	102.967	99.053
18)	B Endrin al...	6.917	6.279	229.5E6	1206.4E6	101.060	97.405
19)	B Endosulfa...	7.151	6.502	289.7E6	1562.9E6	101.567	97.534
20)	A Methoxychlor	7.494	6.774	146.1E6	827.2E6	99.776	96.687
21)	B Endrin ke...	7.631	7.011	312.9E6	1699.7E6	101.477	97.396
22)	Mirex	8.115	7.205	219.9E6	1333.1E6	98.857	97.475

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088124.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 13:56
Operator : AR\AJ
Sample : PSTDICC100
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC100

Manual Integrations APPROVED

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Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
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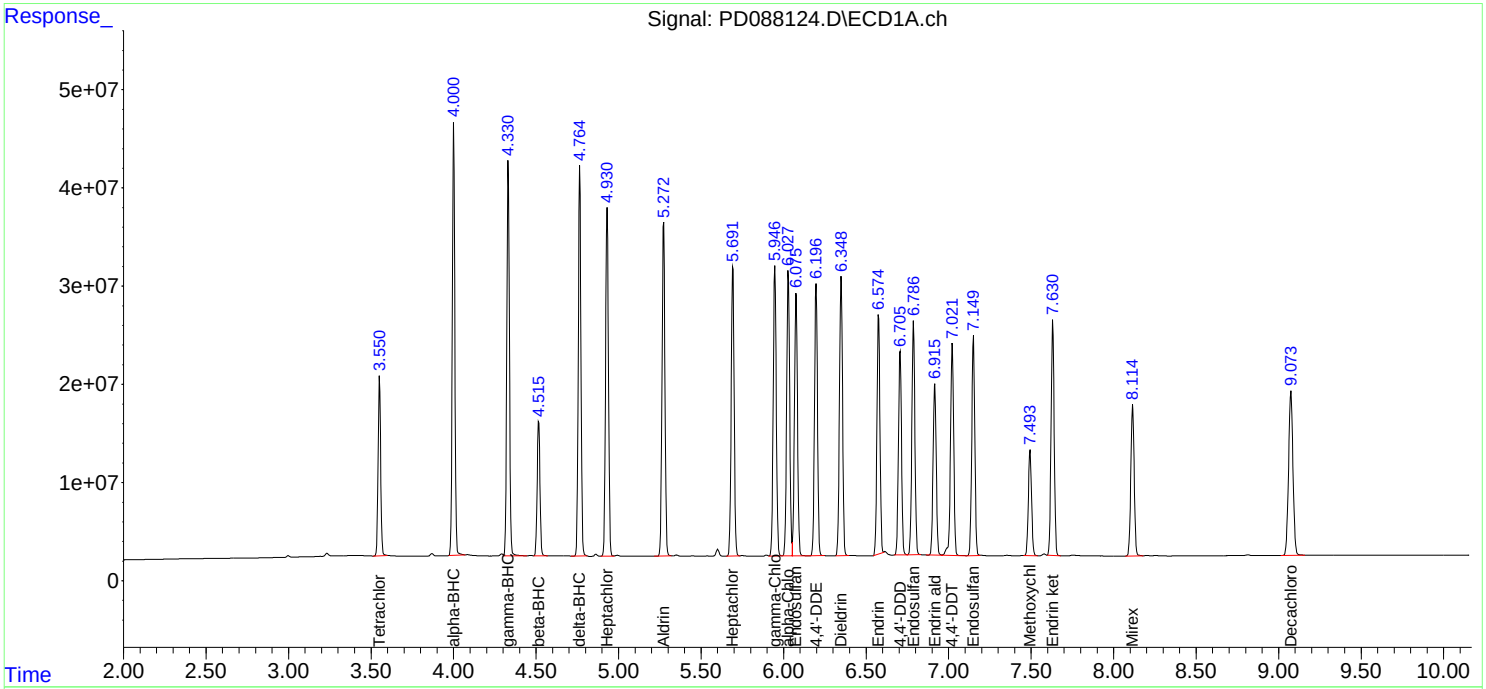

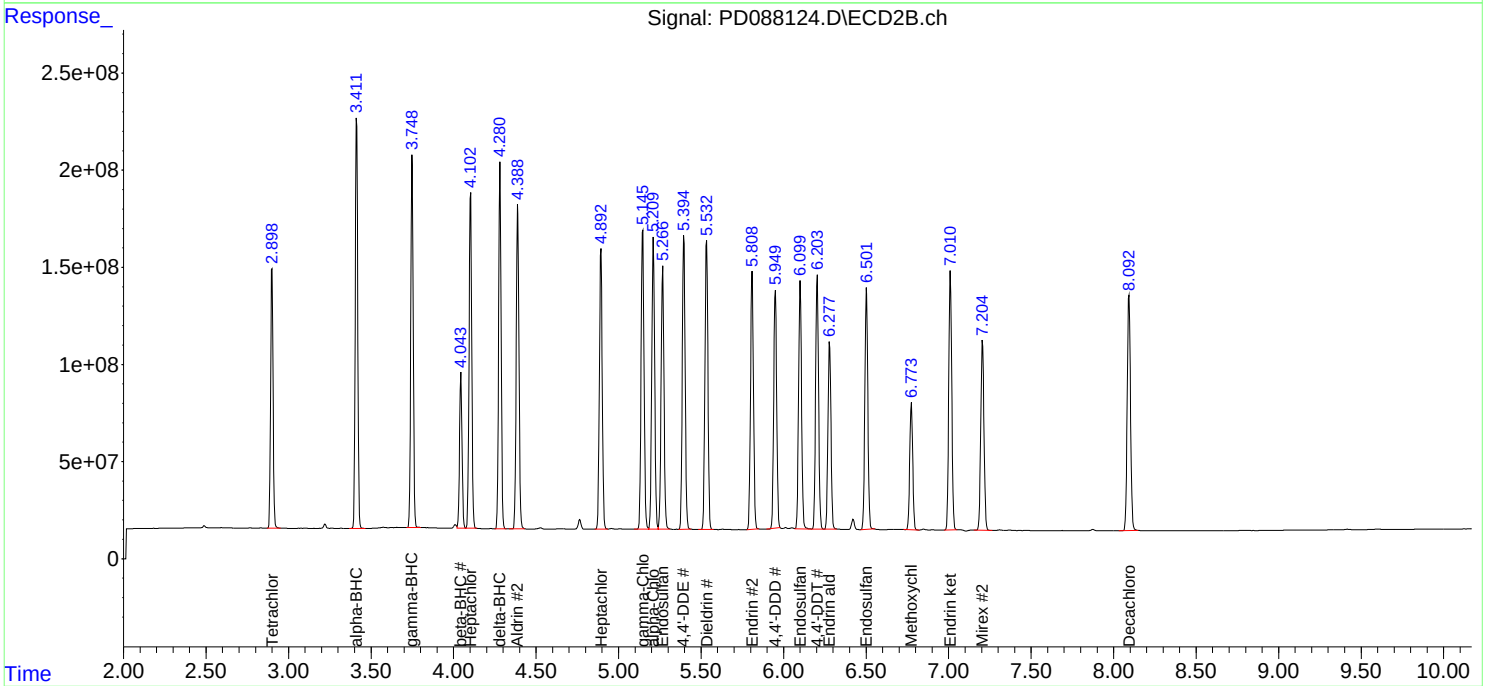

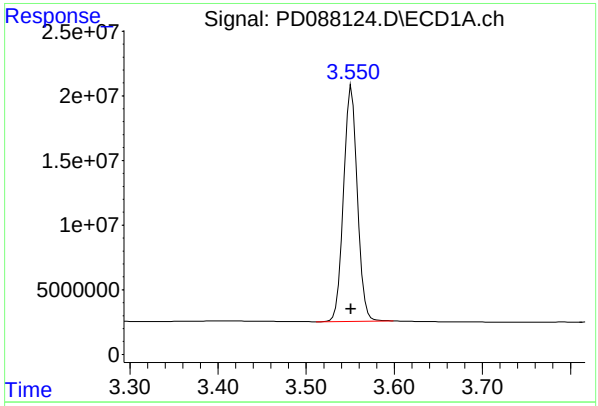

#1 Tetrachloro-m-xylene

R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 198234117
Conc: 101.11 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100

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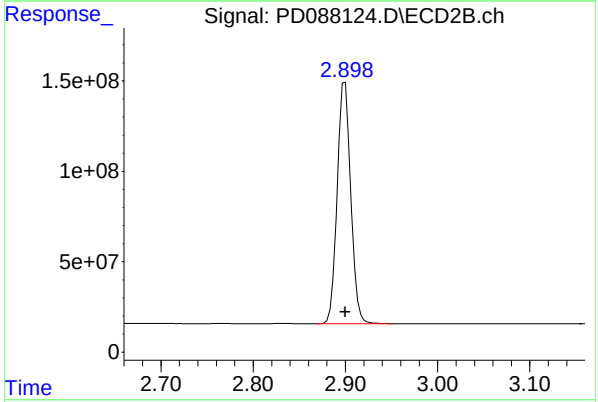
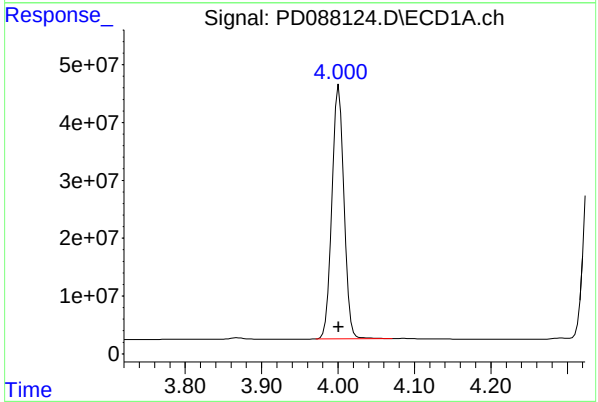


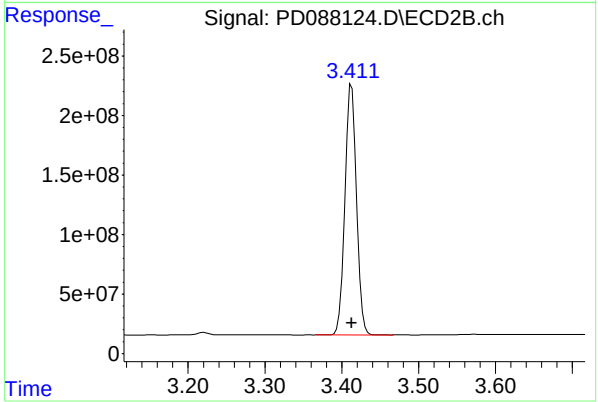
#1 Tetrachloro-m-xylene

R.T.: 2.900 min
Delta R.T.: 0.000 min
Response: 1361531613
Conc: 98.57 ng/ml



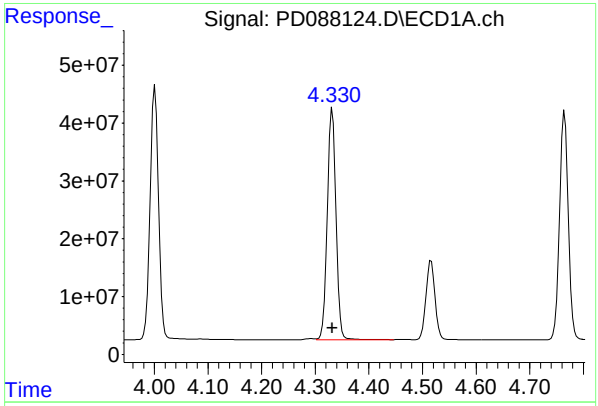
#2 alpha-BHC

R.T.: 4.001 min
Delta R.T.: 0.000 min
Response: 478294593
Conc: 104.85 ng/ml



#2 alpha-BHC

R.T.: 3.413 min
Delta R.T.: 0.000 min
Response: 2191345557
Conc: 99.60 ng/ml



#3 gamma-BHC (Lindane)

R.T.: 4.332 min
Delta R.T.: 0.000 min
Response: 450721159
Conc: 104.07 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100

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Reviewed By :Abdul Mirza 04/19/2025
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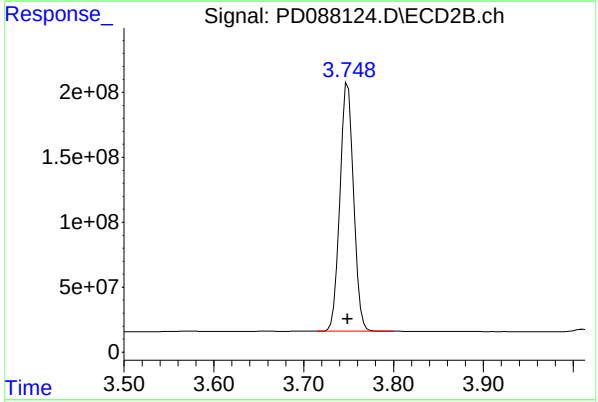
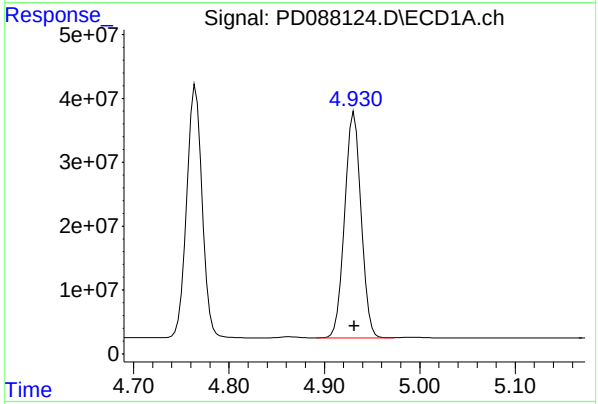


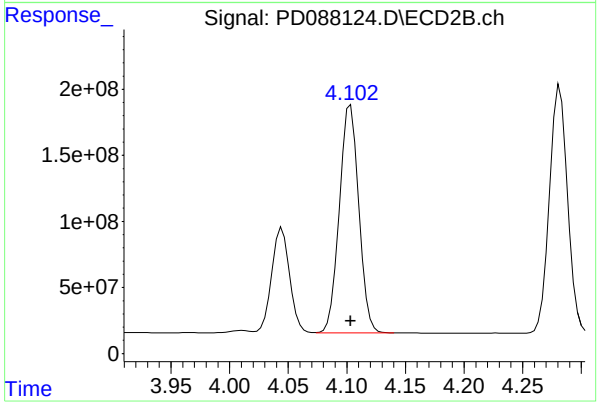
#3 gamma-BHC (Lindane)

R.T.: 3.749 min
Delta R.T.: 0.000 min
Response: 2014083811
Conc: 98.97 ng/ml



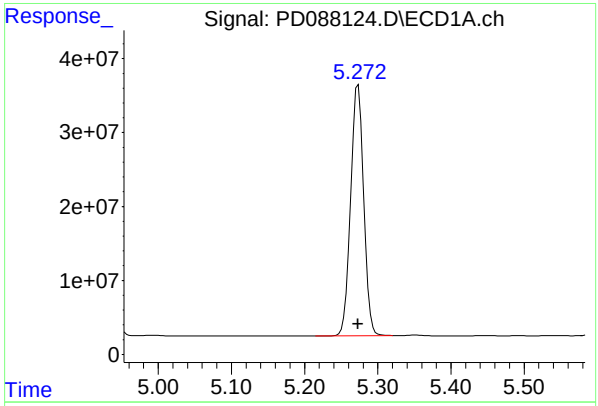
#4 Heptachlor

R.T.: 4.931 min
Delta R.T.: 0.000 min
Response: 426448897
Conc: 103.47 ng/ml



#4 Heptachlor

R.T.: 4.103 min
Delta R.T.: 0.000 min
Response: 1982693593
Conc: 98.28 ng/ml



#5 Aldrin

R.T.: 5.273 min
Delta R.T.: 0.000 min
Response: 419147389
Conc: 103.45 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100

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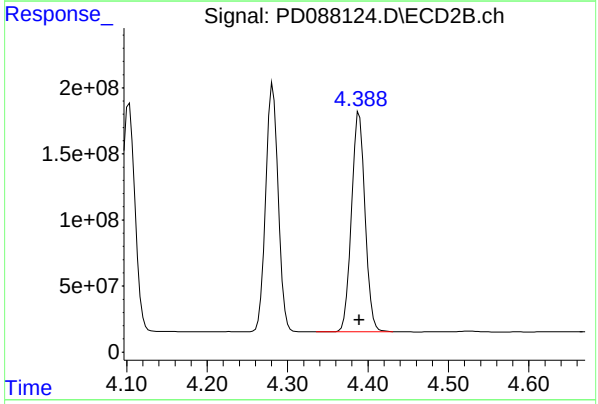
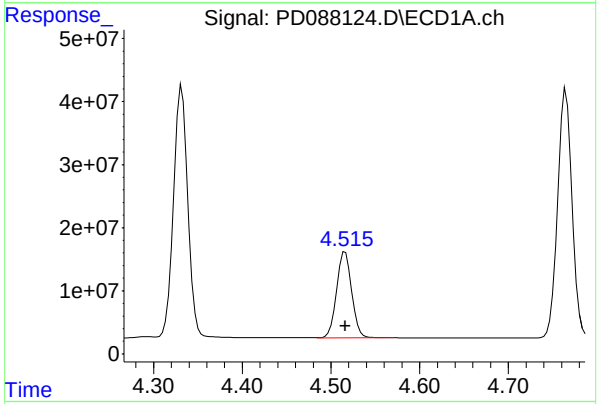


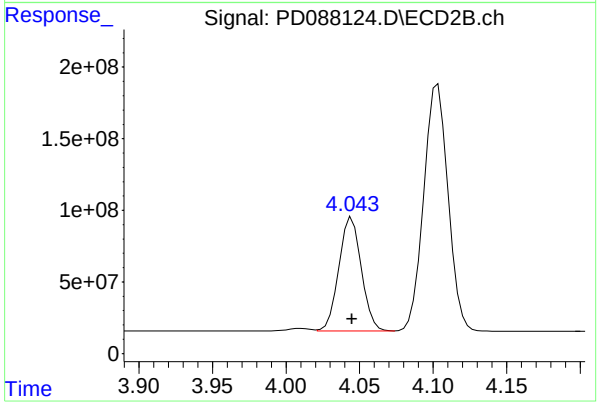
#5 Aldrin

R.T.: 4.389 min
Delta R.T.: 0.000 min
Response: 1943968817
Conc: 98.58 ng/ml



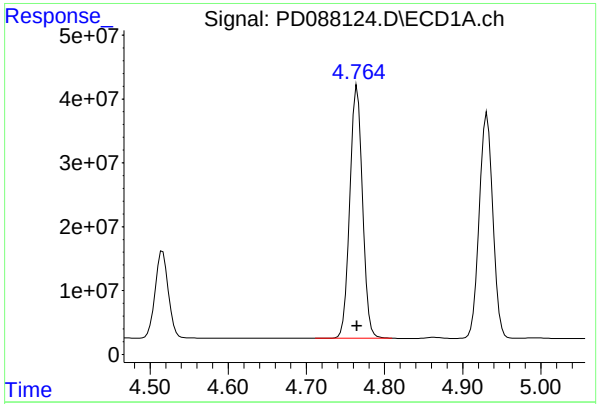
#6 beta-BHC

R.T.: 4.516 min
Delta R.T.: 0.000 min
Response: 160449345
Conc: 100.80 ng/ml



#6 beta-BHC

R.T.: 4.045 min
Delta R.T.: 0.000 min
Response: 847390411
Conc: 97.84 ng/ml



#7 delta-BHC

R.T.: 4.765 min
Delta R.T.: 0.000 min
Response: 444516408
Conc: 104.34 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100

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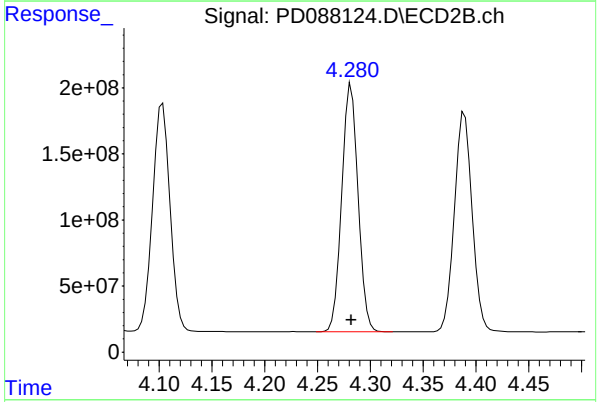
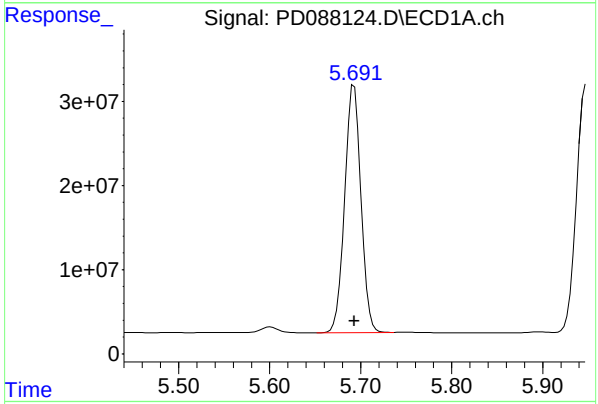


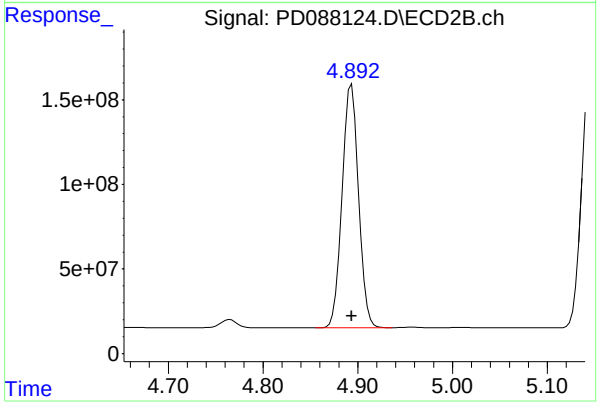
#7 delta-BHC

R.T.: 4.282 min
Delta R.T.: 0.000 min
Response: 2017870820
Conc: 99.27 ng/ml



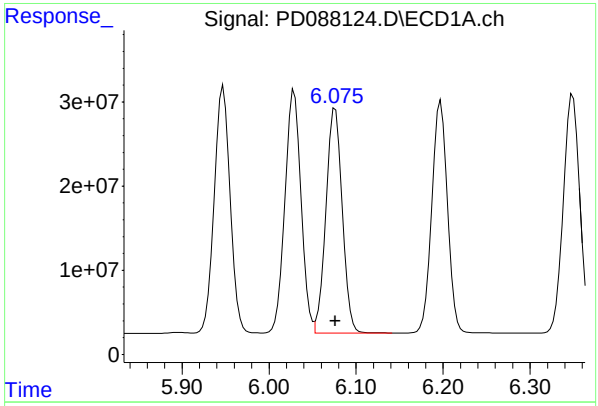
#8 Heptachlor epoxide

R.T.: 5.693 min
Delta R.T.: 0.000 min
Response: 367091395
Conc: 102.58 ng/ml



#8 Heptachlor epoxide

R.T.: 4.892 min
Delta R.T.: -0.001 min
Response: 1735990040
Conc: 98.35 ng/ml m



#9 Endosulfan I

R.T.: 6.076 min
Delta R.T.: 0.000 min
Response: 345033577
Conc: 102.17 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100

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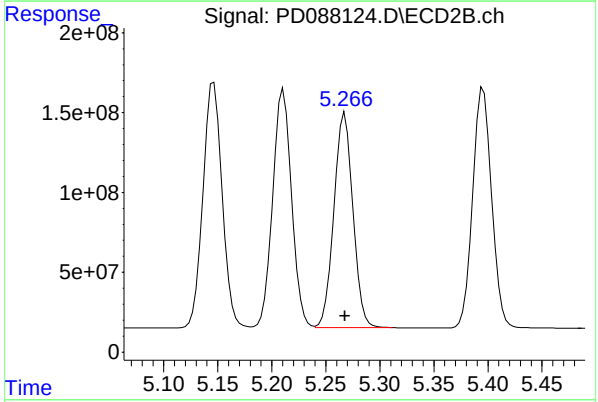
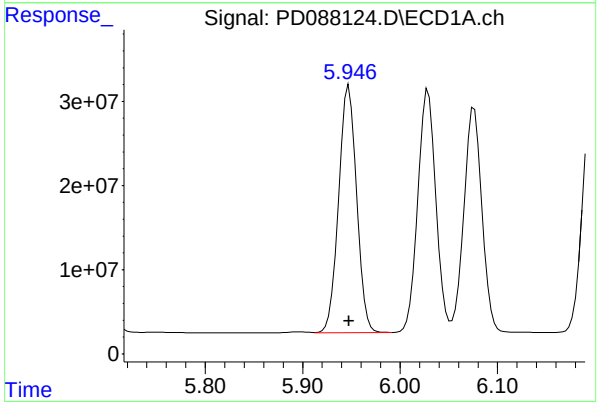


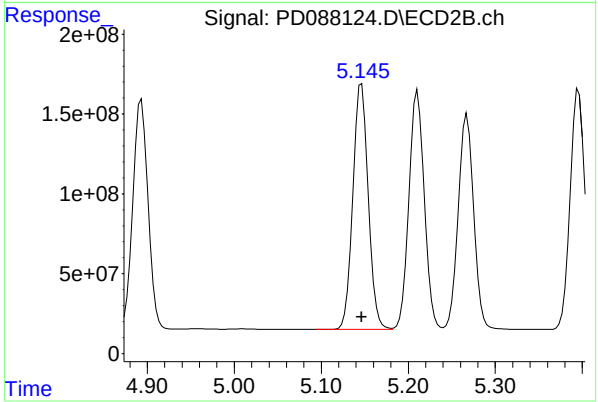
#9 Endosulfan I

R.T.: 5.268 min
Delta R.T.: 0.000 min
Response: 1644830777
Conc: 97.63 ng/ml



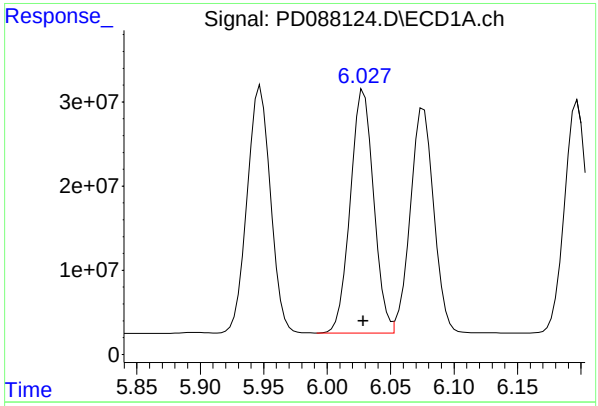
#10 gamma-Chlordane

R.T.: 5.947 min
Delta R.T.: 0.000 min
Response: 375755476
Conc: 103.03 ng/ml



#10 gamma-Chlordane

R.T.: 5.146 min
Delta R.T.: 0.000 min
Response: 1896002446
Conc: 98.76 ng/ml



#11 alpha-Chlordane

R.T.: 6.029 min
Delta R.T.: 0.000 min
Response: 371034138
Conc: 102.50 ng/ml

Instrument :
ECD_D
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PSTDICC100

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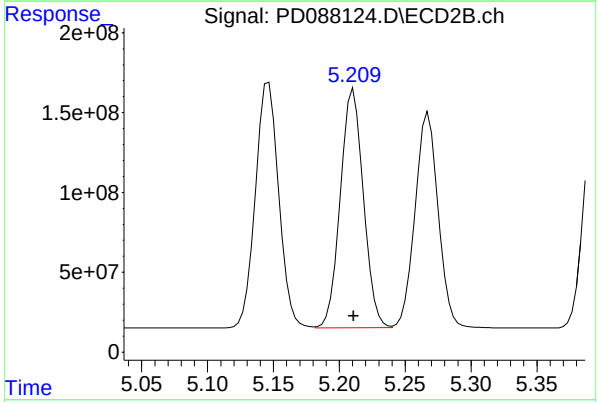
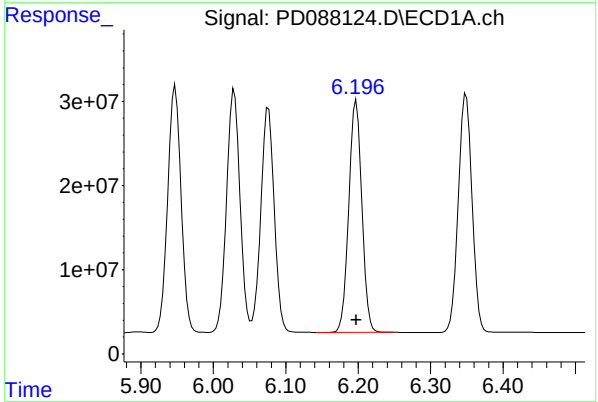


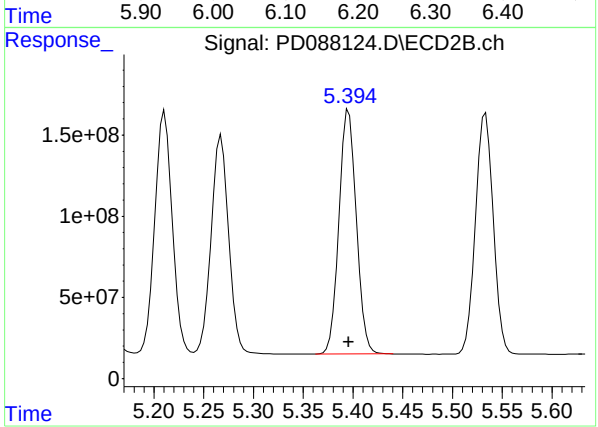
#11 alpha-Chlordane

R.T.: 5.211 min
Delta R.T.: 0.000 min
Response: 1819263378
Conc: 98.48 ng/ml



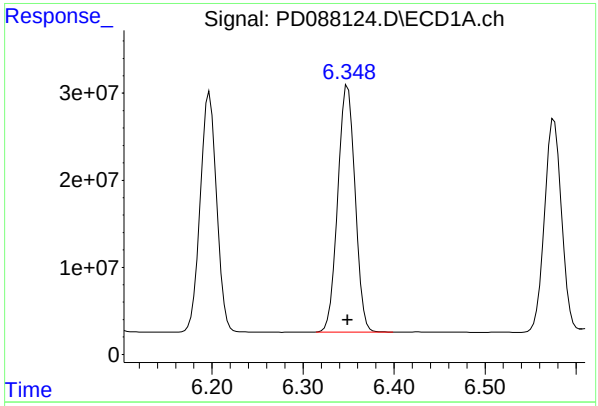
#12 4,4'-DDE

R.T.: 6.197 min
Delta R.T.: 0.000 min
Response: 346691318
Conc: 103.38 ng/ml



#12 4,4'-DDE

R.T.: 5.396 min
Delta R.T.: 0.000 min
Response: 1834547618
Conc: 98.58 ng/ml



#13 Dieldrin

R.T.: 6.349 min
Delta R.T.: 0.000 min
Response: 375015671
Conc: 103.02 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100

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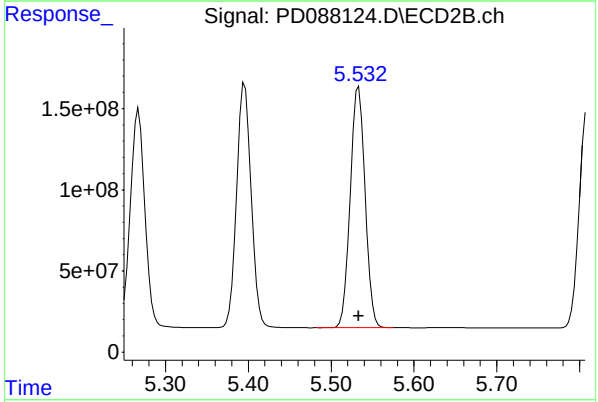
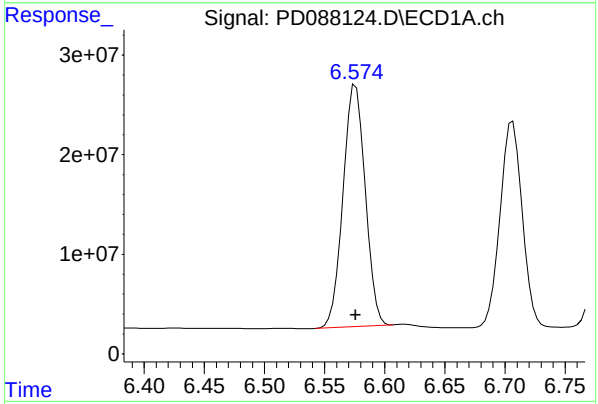


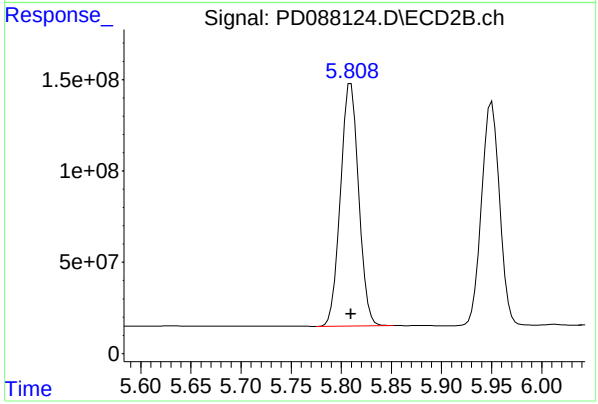
#13 Dieldrin

R.T.: 5.533 min
Delta R.T.: 0.000 min
Response: 1853680989
Conc: 98.38 ng/ml



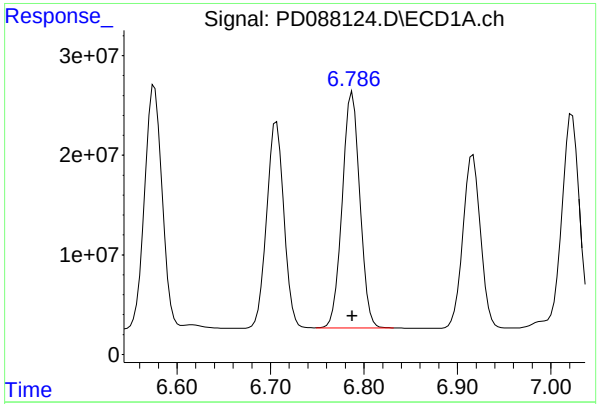
#14 Endrin

R.T.: 6.576 min
Delta R.T.: 0.000 min
Response: 312818338
Conc: 103.18 ng/ml



#14 Endrin

R.T.: 5.810 min
Delta R.T.: 0.000 min
Response: 1675615058
Conc: 97.93 ng/ml



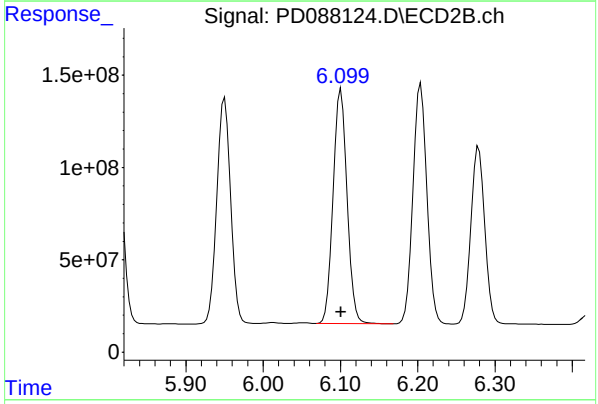
#15 Endosulfan II

R.T.: 6.787 min
Delta R.T.: 0.000 min
Response: 310413086
Conc: 101.58 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100

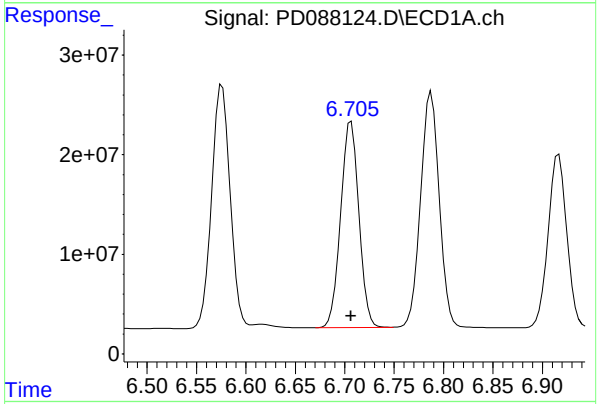
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/19/2025
Supervised By :mohammad ahmed 04/22/2025



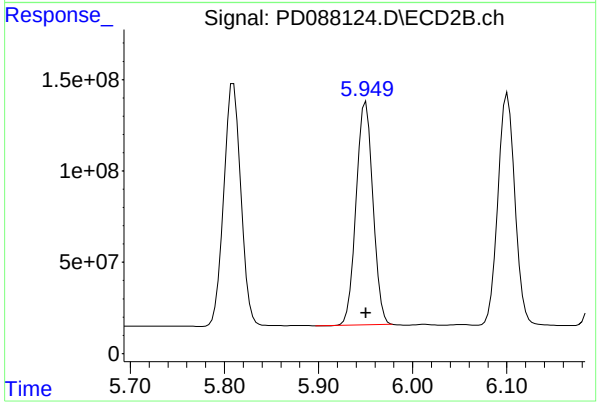
#15 Endosulfan II

R.T.: 6.101 min
Delta R.T.: 0.000 min
Response: 1600976508
Conc: 97.78 ng/ml



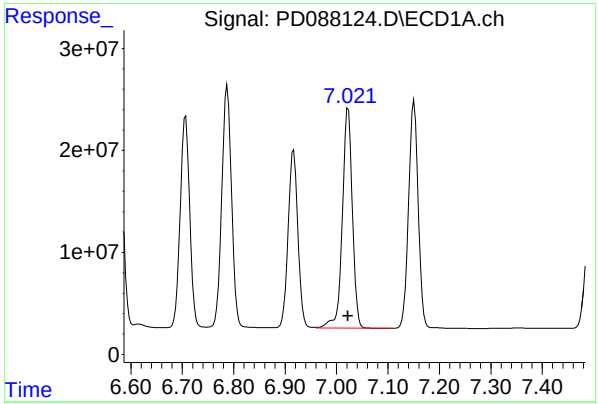
#16 4,4'-DDD

R.T.: 6.706 min
Delta R.T.: 0.000 min
Response: 265760396
Conc: 103.16 ng/ml



#16 4,4'-DDD

R.T.: 5.950 min
Delta R.T.: 0.000 min
Response: 1515468249
Conc: 97.94 ng/ml



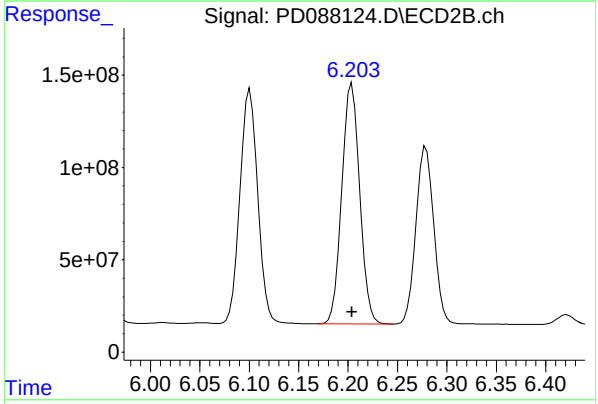
#17 4,4'-DDT

R.T.: 7.023 min
Delta R.T.: 0.000 min
Response: 292348242
Conc: 102.97 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100

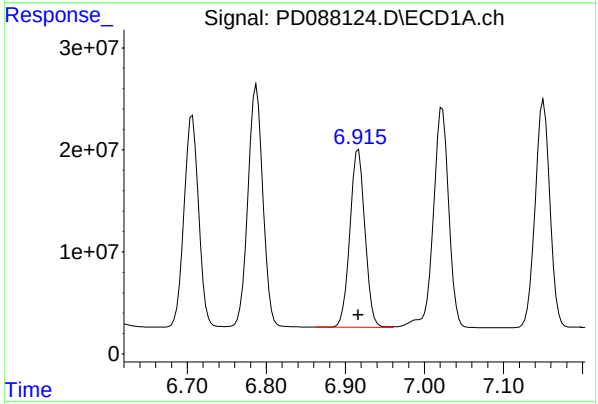
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/19/2025
Supervised By :mohammad ahmed 04/22/2025



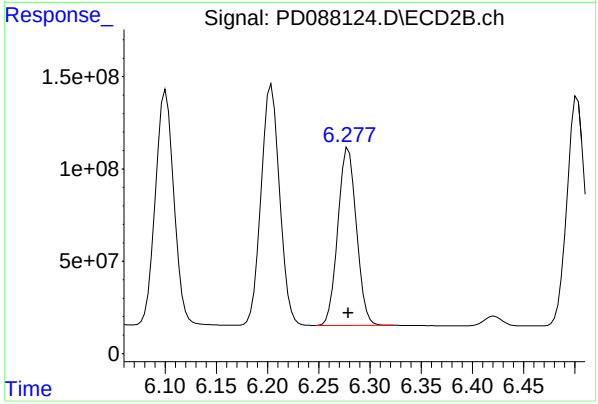
#17 4,4'-DDT

R.T.: 6.204 min
Delta R.T.: 0.000 min
Response: 1643160337
Conc: 99.05 ng/ml



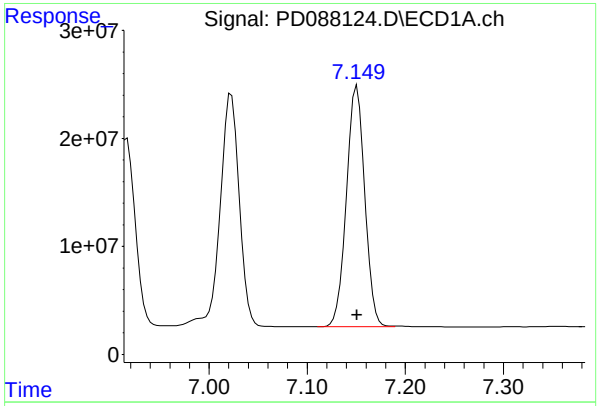
#18 Endrin aldehyde

R.T.: 6.917 min
Delta R.T.: 0.000 min
Response: 229501229
Conc: 101.06 ng/ml



#18 Endrin aldehyde

R.T.: 6.279 min
Delta R.T.: 0.000 min
Response: 1206434283
Conc: 97.40 ng/ml



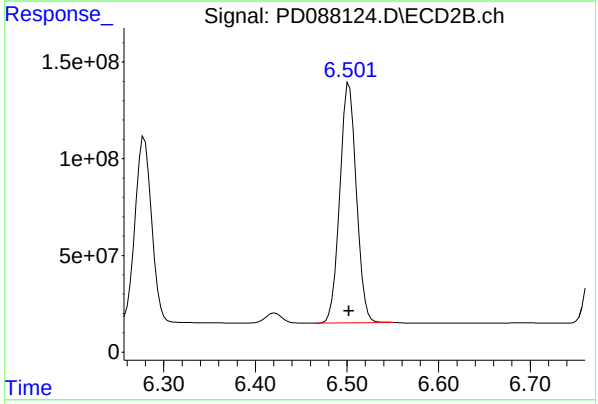
#19 Endosulfan Sulfate

R.T.: 7.151 min
Delta R.T.: 0.000 min
Response: 289697395
Conc: 101.57 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100

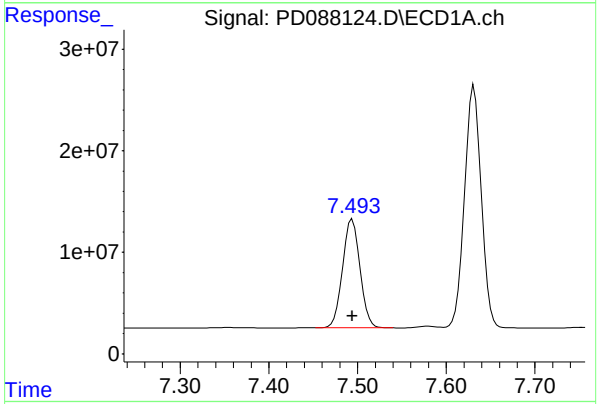
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/19/2025
Supervised By :mohammad ahmed 04/22/2025



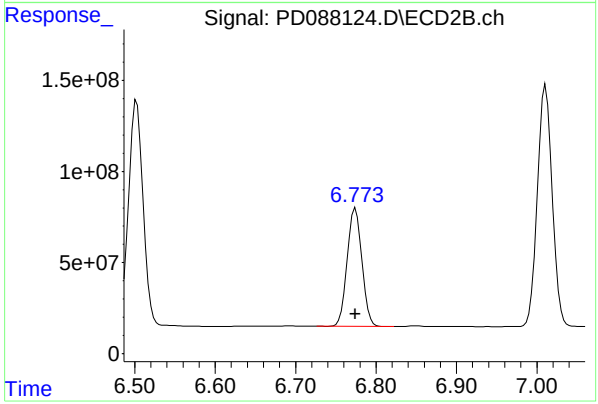
#19 Endosulfan Sulfate

R.T.: 6.502 min
Delta R.T.: 0.000 min
Response: 1562895135
Conc: 97.53 ng/ml



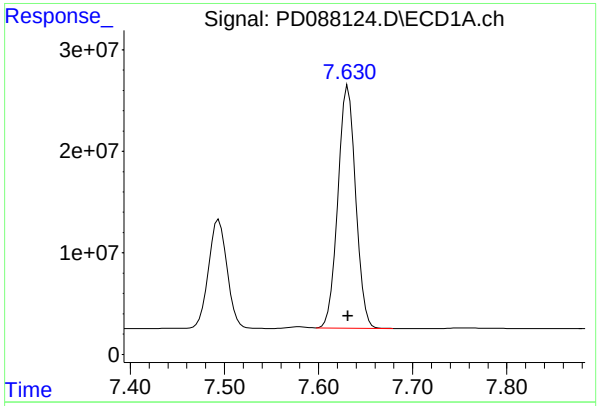
#20 Methoxychlor

R.T.: 7.494 min
Delta R.T.: 0.000 min
Response: 146129589
Conc: 99.78 ng/ml



#20 Methoxychlor

R.T.: 6.774 min
Delta R.T.: 0.000 min
Response: 827232755
Conc: 96.69 ng/ml



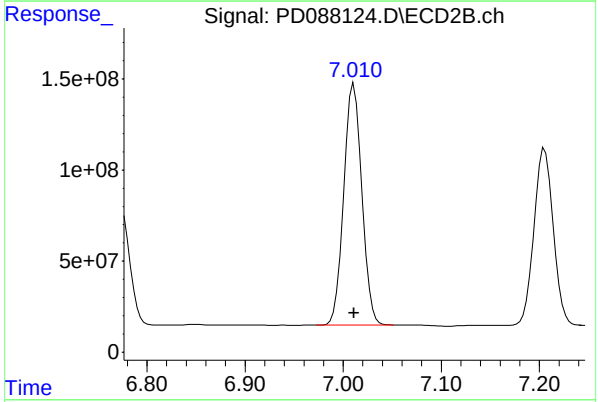
#21 Endrin ketone

R.T.: 7.631 min
Delta R.T.: 0.000 min
Response: 312858827
Conc: 101.48 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100

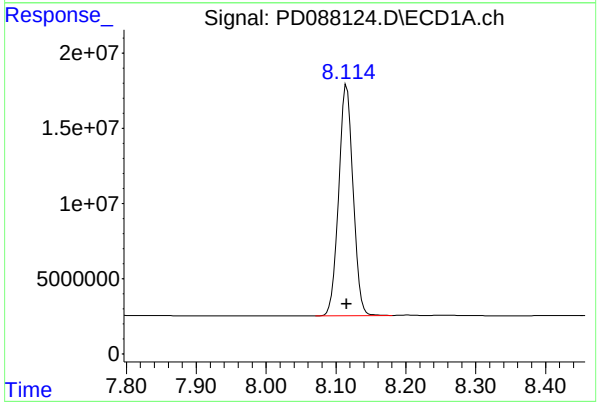
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/19/2025
Supervised By :mohammad ahmed 04/22/2025



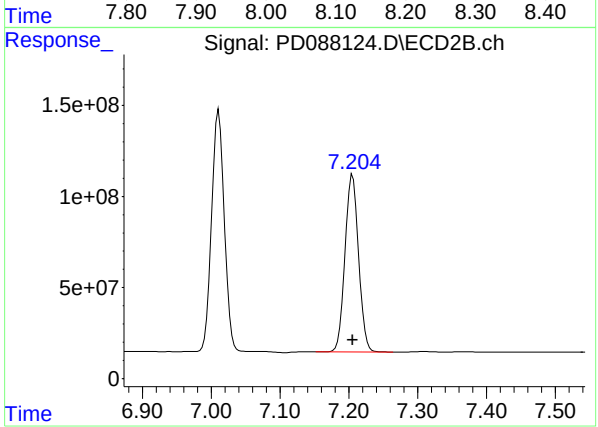
#21 Endrin ketone

R.T.: 7.011 min
Delta R.T.: 0.000 min
Response: 1699657766
Conc: 97.40 ng/ml



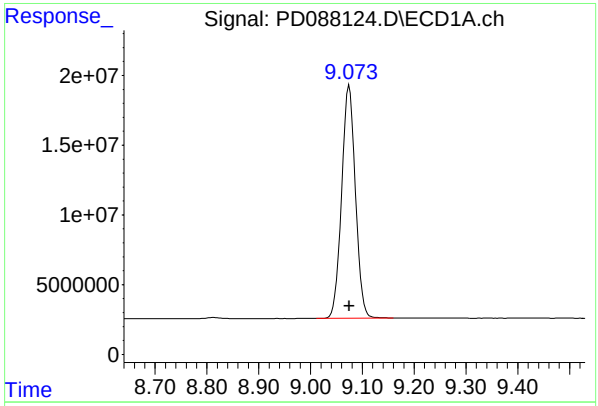
#22 Mirex

R.T.: 8.115 min
Delta R.T.: 0.000 min
Response: 219877176
Conc: 98.86 ng/ml



#22 Mirex

R.T.: 7.205 min
Delta R.T.: 0.000 min
Response: 1333108121
Conc: 97.48 ng/ml



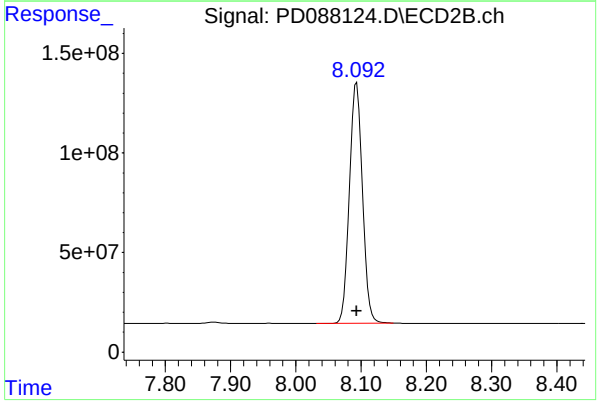
#28 Decachlorobiphenyl

R.T.: 9.075 min
Delta R.T.: 0.000 min
Response: 308082392
Conc: 98.45 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/19/2025
Supervised By :mohammad ahmed 04/22/2025



#28 Decachlorobiphenyl

R.T.: 8.093 min
Delta R.T.: 0.000 min
Response: 1676703182
Conc: 97.95 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088125.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 14:10
Operator : AR\AJ
Sample : PSTDICC075
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC075

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 04:38:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 04:38:06 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 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.552	2.883	150.5E6	1026.4E6	76.770	74.309
28)	SA Decachlor...	9.074	8.076	235.6E6	1282.4E6	75.279	74.910
	Target Compounds						
2)	A alpha-BHC	4.001	3.396	344.5E6	1637.3E6	75.524	74.417
3)	MA gamma-BHC...	4.332	3.732	327.4E6	1517.0E6	75.589	74.548
4)	MA Heptachlor	4.931	4.086	311.9E6	1501.6E6	75.687	74.430
5)	MB Aldrin	5.273	4.372	305.2E6	1470.4E6	75.338	74.562
6)	B beta-BHC	4.516	4.028	119.2E6	643.1E6	74.880	74.260
7)	B delta-BHC	4.765	4.265	321.2E6	1514.3E6	75.391	74.502
8)	B Heptachlo...	5.693	4.876	269.9E6	1318.2E6	75.407	74.392
9)	A Endosulfan I	6.076	5.251	254.8E6	1255.1E6	75.455	74.495
10)	B gamma-Chl...	5.948	5.130	277.4E6	1429.7E6	76.052	74.470
11)	B alpha-Chl...	6.029	5.195	271.9E6	1376.2E6	75.106	74.493
12)	B 4,4'-DDE	6.197	5.379	264.5E6	1393.5E6	78.883	74.883
13)	MA Dieldrin	6.349	5.517	274.2E6	1403.5E6	75.327	74.488
14)	MA Endrin	6.576	5.793	230.8E6	1275.1E6	76.125	74.523
15)	B Endosulfa...	6.788	6.084	229.6E6	1217.8E6	75.122	74.374
16)	A 4,4'-DDD	6.706	5.934	194.0E6	1155.3E6	75.311	74.663
17)	MA 4,4'-DDT	7.022	6.188	215.1E6	1237.2E6	75.763	74.584
18)	B Endrin al...	6.916	6.263	170.1E6	920.9E6	74.896	74.348
19)	B Endosulfa...	7.151	6.486	213.5E6	1192.6E6	74.839	74.424
20)	A Methoxychlor	7.494	6.759	110.0E6	635.1E6	75.092	74.226
21)	B Endrin ke...	7.631	6.995	230.5E6	1294.9E6	74.768	74.201
22)	Mirex	8.115	7.189	164.0E6	1014.9E6	73.732	74.208

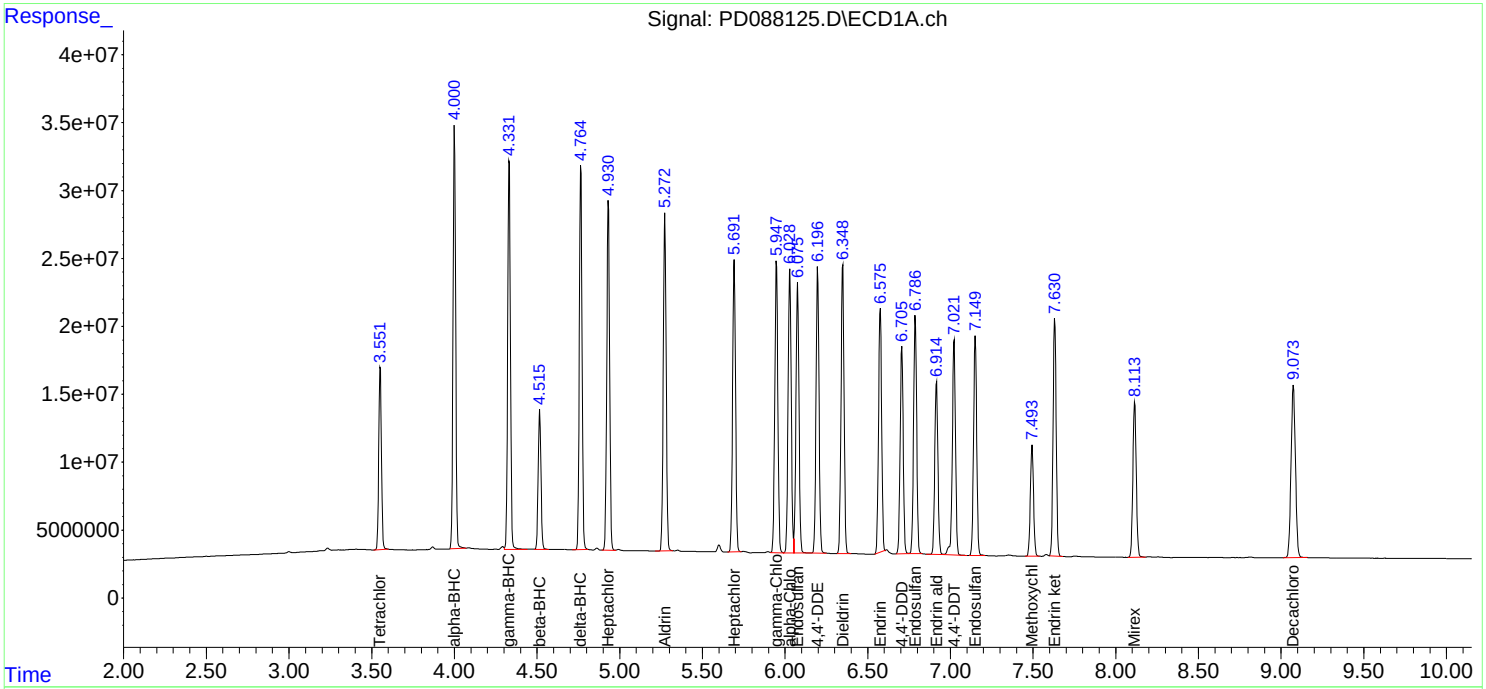
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

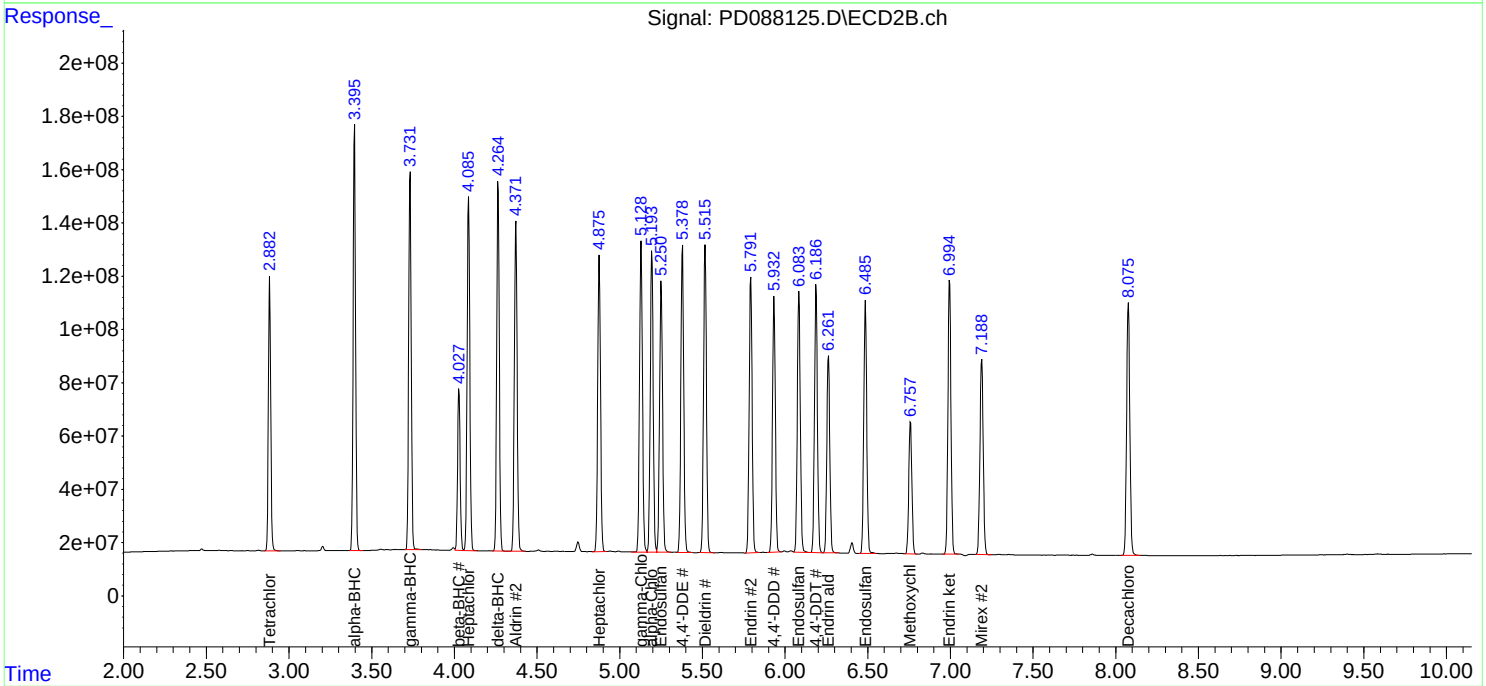
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088125.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 14:10
Operator : AR\AJ
Sample : PSTDICC075
Misc :
ALS Vial : 6 Sample Multiplier: 1

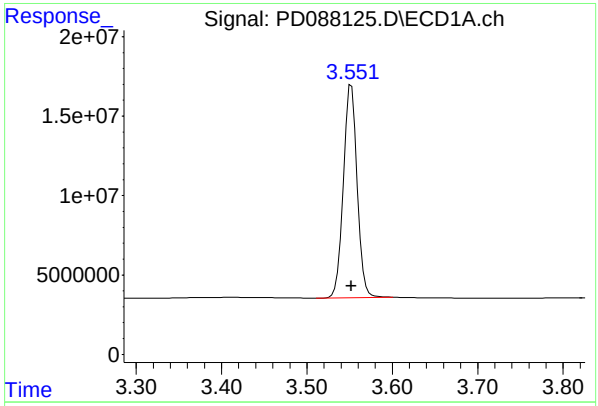
Instrument :
ECD_D
ClientSampleId :
PSTDICC075

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 04:38:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 04:38:06 2025
Response via : Initial Calibration
Integrator: ChemStation

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



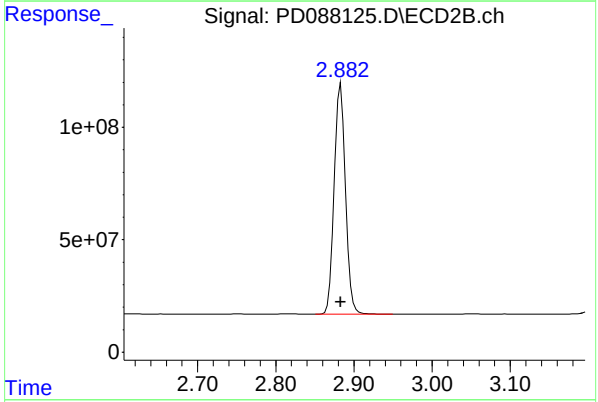




#1 Tetrachloro-m-xylene

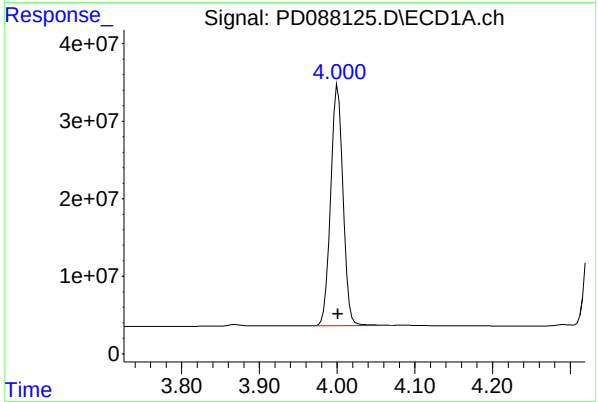
R.T.: 3.552 min
Delta R.T.: 0.000 min
Response: 150509152
Conc: 76.77 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC075



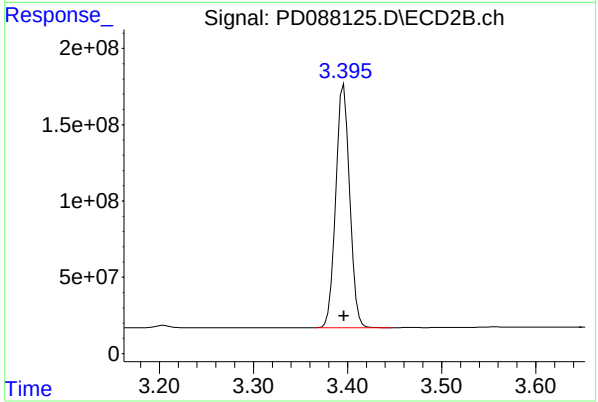
#1 Tetrachloro-m-xylene

R.T.: 2.883 min
Delta R.T.: 0.000 min
Response: 1026433726
Conc: 74.31 ng/ml



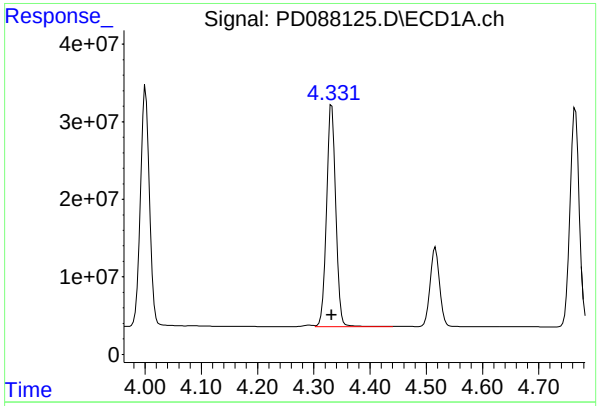
#2 alpha-BHC

R.T.: 4.001 min
Delta R.T.: 0.000 min
Response: 344532215
Conc: 75.52 ng/ml



#2 alpha-BHC

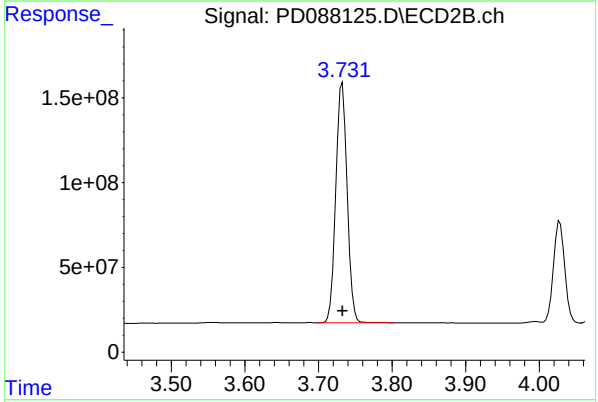
R.T.: 3.396 min
Delta R.T.: 0.000 min
Response: 1637308006
Conc: 74.42 ng/ml



#3 gamma-BHC (Lindane)

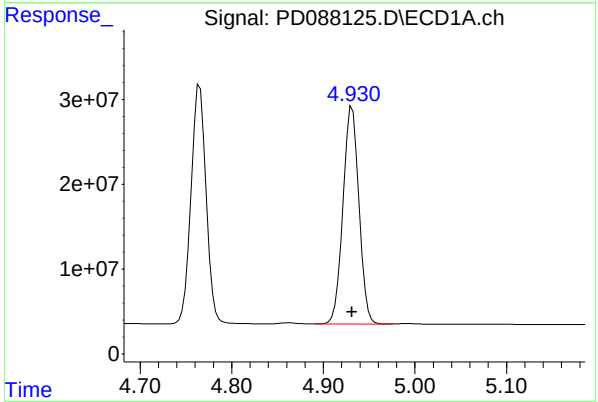
R.T.: 4.332 min
Delta R.T.: 0.000 min
Response: 327384936
Conc: 75.59 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC075



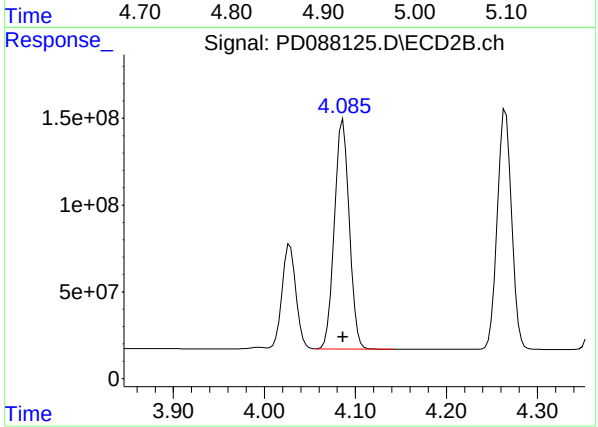
#3 gamma-BHC (Lindane)

R.T.: 3.732 min
Delta R.T.: 0.000 min
Response: 1517020838
Conc: 74.55 ng/ml



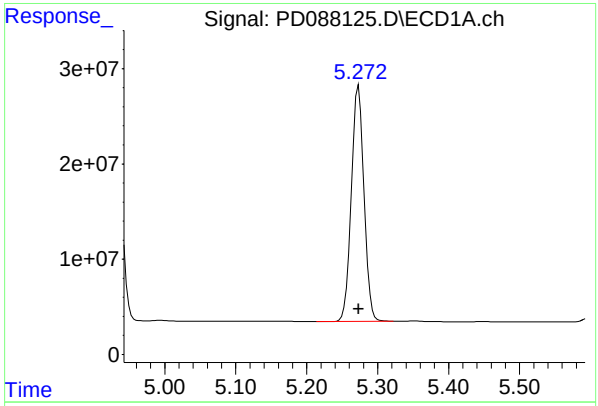
#4 Heptachlor

R.T.: 4.931 min
Delta R.T.: 0.000 min
Response: 311933328
Conc: 75.69 ng/ml



#4 Heptachlor

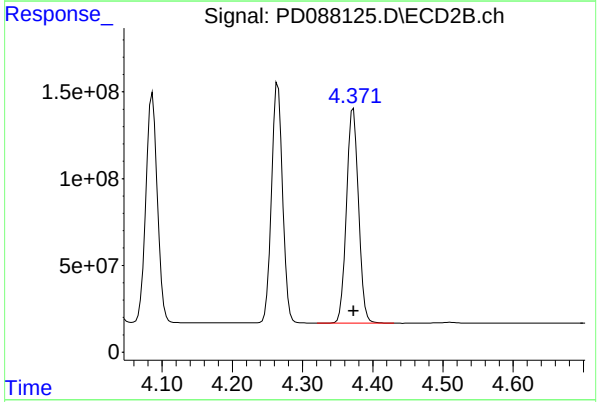
R.T.: 4.086 min
Delta R.T.: 0.000 min
Response: 1501610883
Conc: 74.43 ng/ml



#5 Aldrin

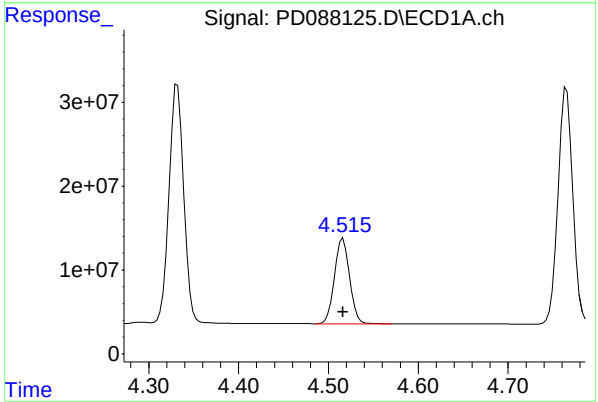
R.T.: 5.273 min
Delta R.T.: 0.000 min
Response: 305240268
Conc: 75.34 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC075



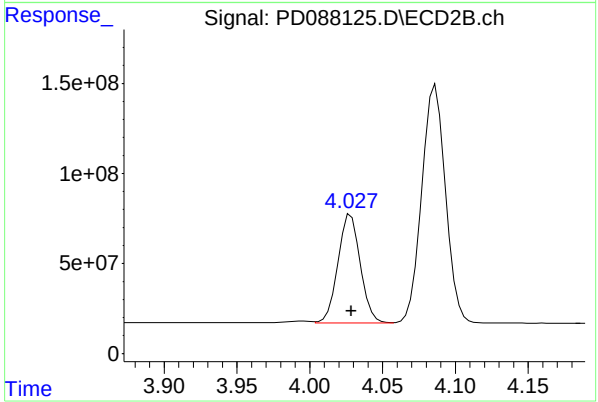
#5 Aldrin

R.T.: 4.372 min
Delta R.T.: 0.000 min
Response: 1470351433
Conc: 74.56 ng/ml



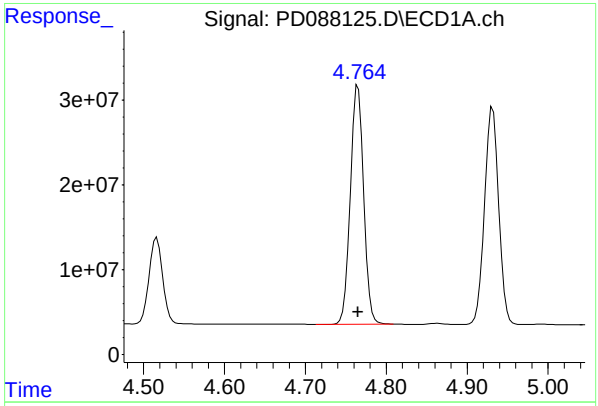
#6 beta-BHC

R.T.: 4.516 min
Delta R.T.: 0.000 min
Response: 119190169
Conc: 74.88 ng/ml



#6 beta-BHC

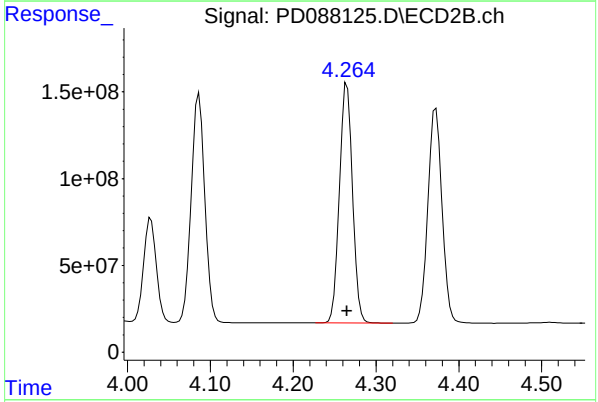
R.T.: 4.028 min
Delta R.T.: 0.000 min
Response: 643146826
Conc: 74.26 ng/ml



#7 delta-BHC

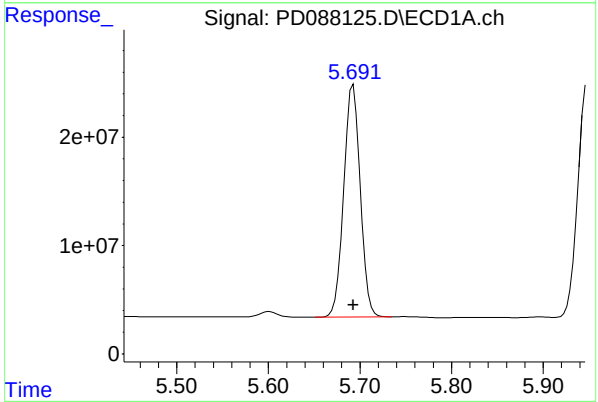
R.T.: 4.765 min
Delta R.T.: 0.000 min
Response: 321202264
Conc: 75.39 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC075



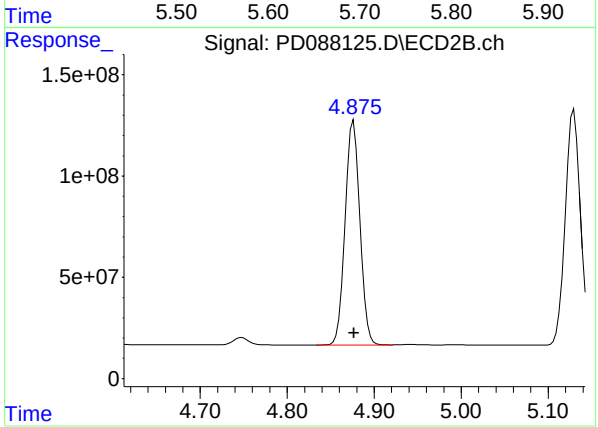
#7 delta-BHC

R.T.: 4.265 min
Delta R.T.: 0.000 min
Response: 1514324767
Conc: 74.50 ng/ml



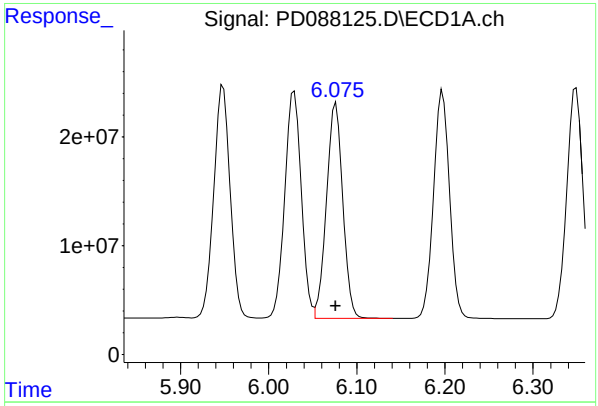
#8 Heptachlor epoxide

R.T.: 5.693 min
Delta R.T.: 0.000 min
Response: 269854540
Conc: 75.41 ng/ml



#8 Heptachlor epoxide

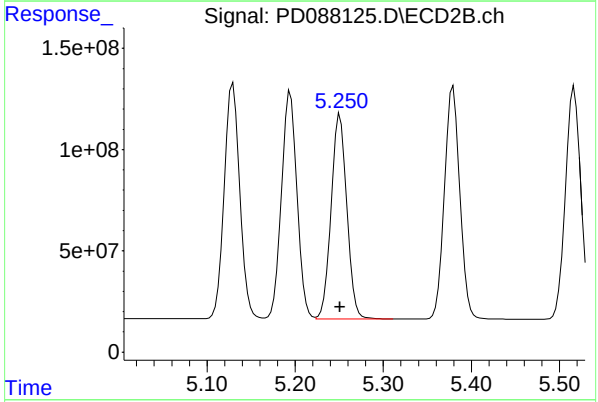
R.T.: 4.876 min
Delta R.T.: 0.000 min
Response: 1318206957
Conc: 74.39 ng/ml



#9 Endosulfan I

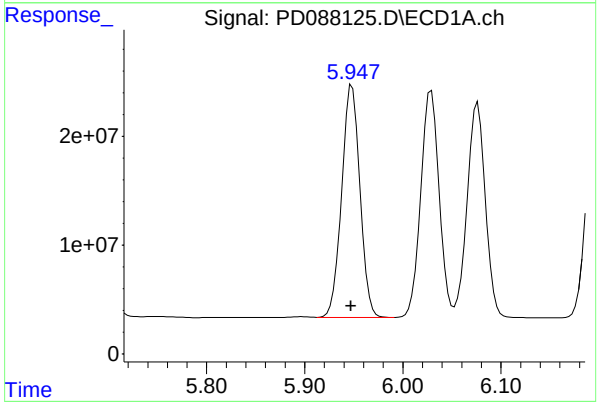
R.T.: 6.076 min
Delta R.T.: 0.000 min
Response: 254825083
Conc: 75.45 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC075



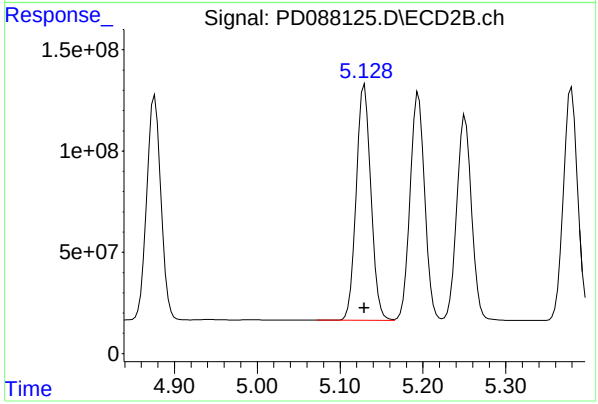
#9 Endosulfan I

R.T.: 5.251 min
Delta R.T.: 0.000 min
Response: 1255053658
Conc: 74.49 ng/ml



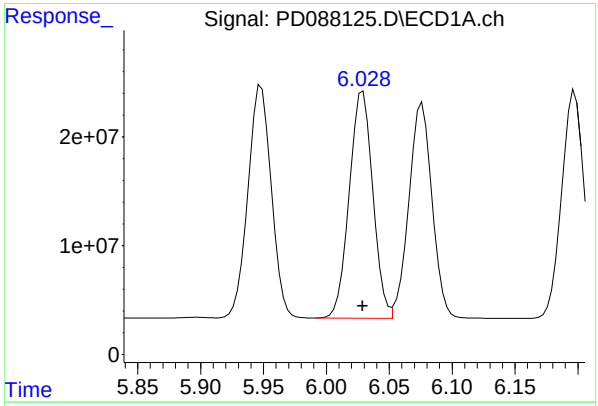
#10 gamma-Chlordane

R.T.: 5.948 min
Delta R.T.: 0.001 min
Response: 277355830
Conc: 76.05 ng/ml



#10 gamma-Chlordane

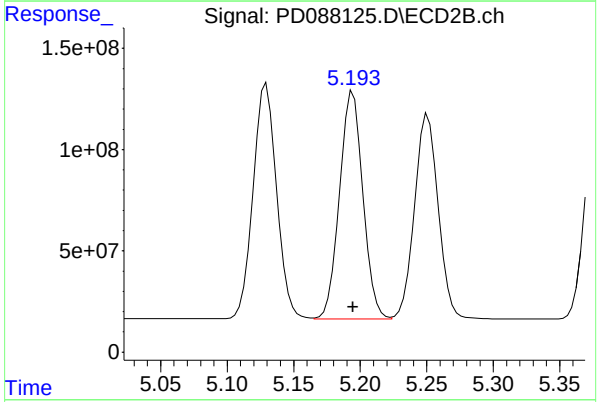
R.T.: 5.130 min
Delta R.T.: 0.000 min
Response: 1429713037
Conc: 74.47 ng/ml



#11 alpha-Chlordane

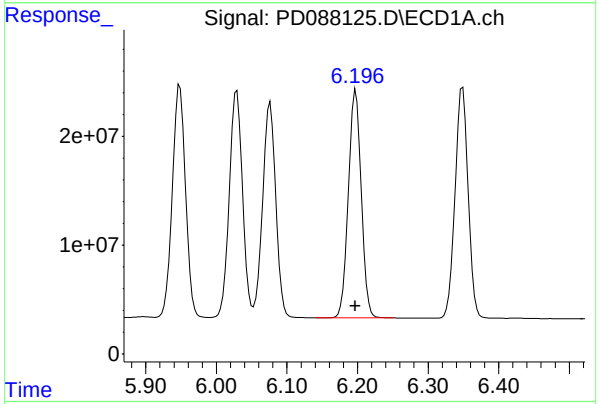
R.T.: 6.029 min
Delta R.T.: 0.000 min
Response: 271880168
Conc: 75.11 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC075



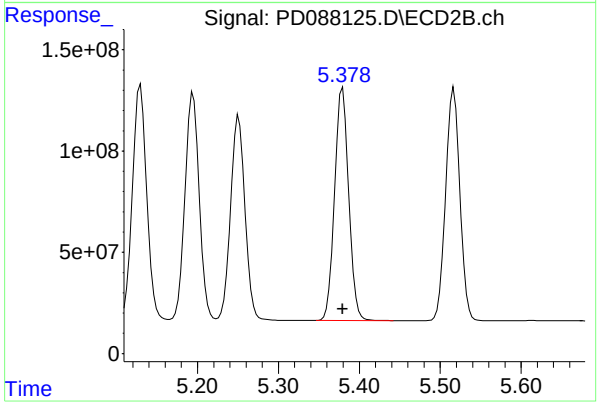
#11 alpha-Chlordane

R.T.: 5.195 min
Delta R.T.: 0.000 min
Response: 1376170536
Conc: 74.49 ng/ml



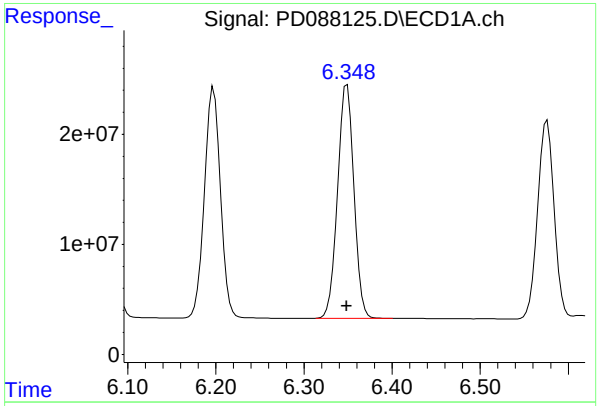
#12 4,4'-DDE

R.T.: 6.197 min
Delta R.T.: 0.000 min
Response: 264537794
Conc: 78.88 ng/ml



#12 4,4'-DDE

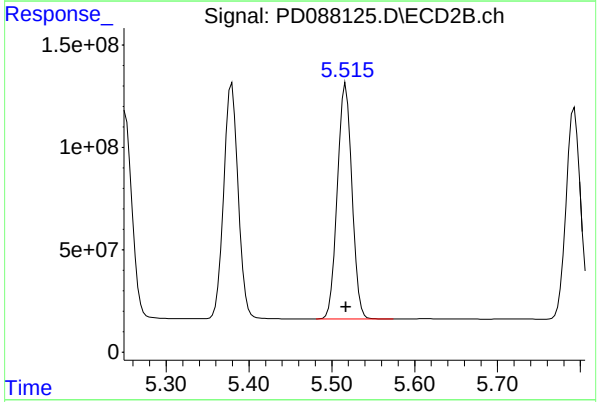
R.T.: 5.379 min
Delta R.T.: 0.000 min
Response: 1393498963
Conc: 74.88 ng/ml



#13 Dieldrin

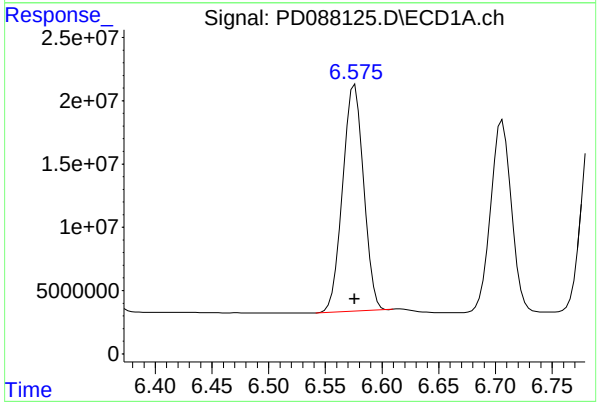
R.T.: 6.349 min
Delta R.T.: 0.000 min
Response: 274209115
Conc: 75.33 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC075



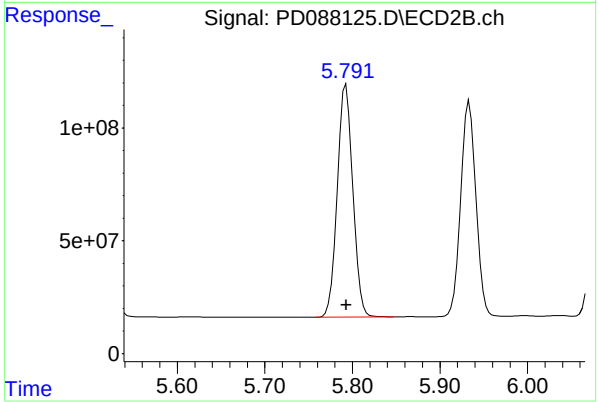
#13 Dieldrin

R.T.: 5.517 min
Delta R.T.: 0.000 min
Response: 1403480582
Conc: 74.49 ng/ml



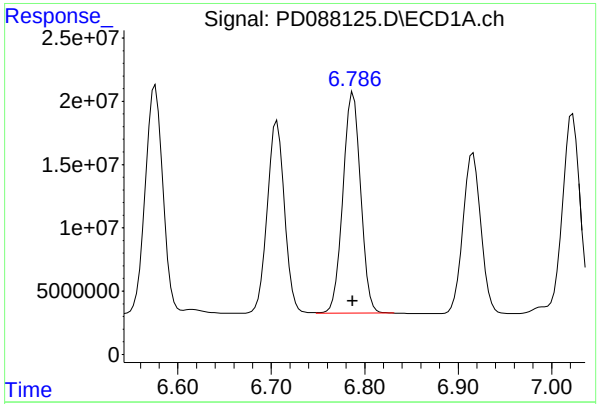
#14 Endrin

R.T.: 6.576 min
Delta R.T.: 0.000 min
Response: 230797276
Conc: 76.13 ng/ml



#14 Endrin

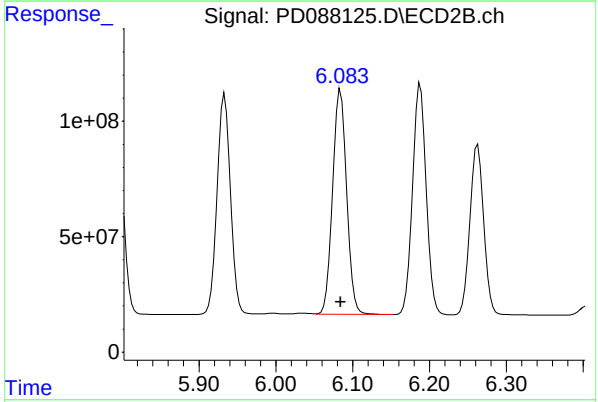
R.T.: 5.793 min
Delta R.T.: 0.000 min
Response: 1275108964
Conc: 74.52 ng/ml



#15 Endosulfan II

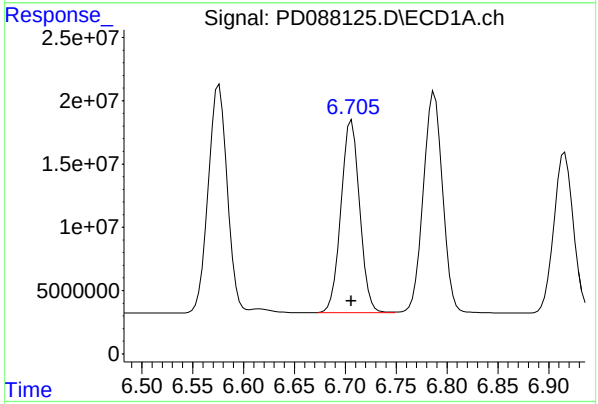
R.T.: 6.788 min
Delta R.T.: 0.000 min
Response: 229559152
Conc: 75.12 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC075



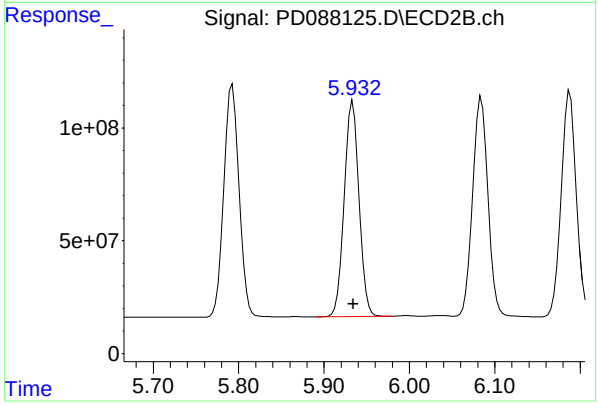
#15 Endosulfan II

R.T.: 6.084 min
Delta R.T.: 0.000 min
Response: 1217777379
Conc: 74.37 ng/ml



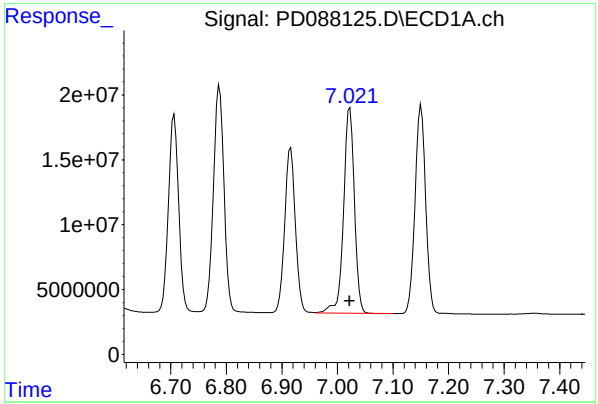
#16 4,4'-DDD

R.T.: 6.706 min
Delta R.T.: 0.000 min
Response: 194024982
Conc: 75.31 ng/ml



#16 4,4'-DDD

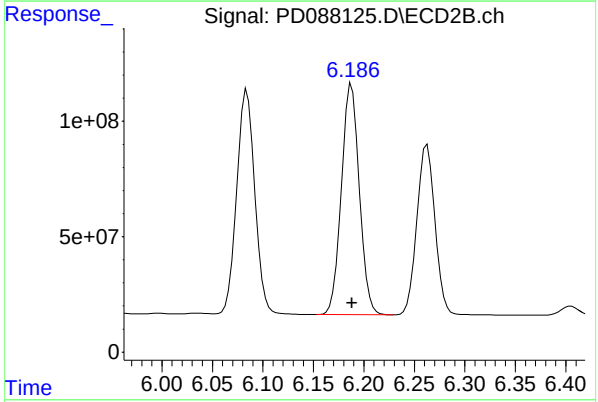
R.T.: 5.934 min
Delta R.T.: 0.000 min
Response: 1155293133
Conc: 74.66 ng/ml



#17 4,4'-DDT

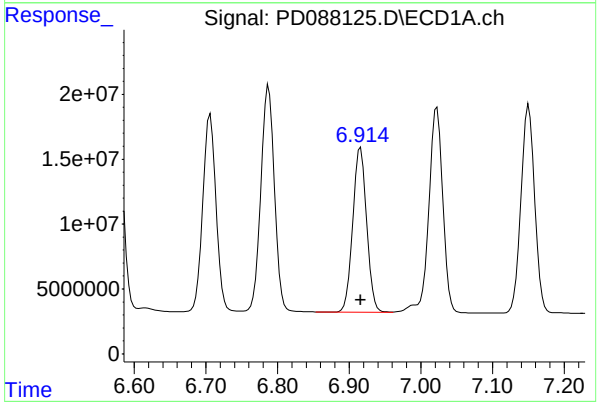
R.T.: 7.022 min
Delta R.T.: 0.000 min
Response: 215110567
Conc: 75.76 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC075



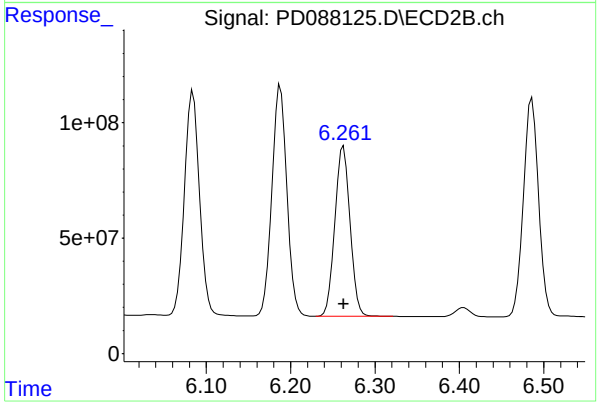
#17 4,4'-DDT

R.T.: 6.188 min
Delta R.T.: 0.000 min
Response: 1237239530
Conc: 74.58 ng/ml



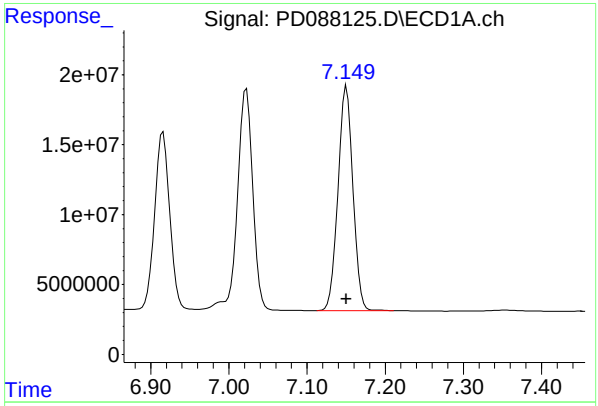
#18 Endrin aldehyde

R.T.: 6.916 min
Delta R.T.: 0.000 min
Response: 170085055
Conc: 74.90 ng/ml



#18 Endrin aldehyde

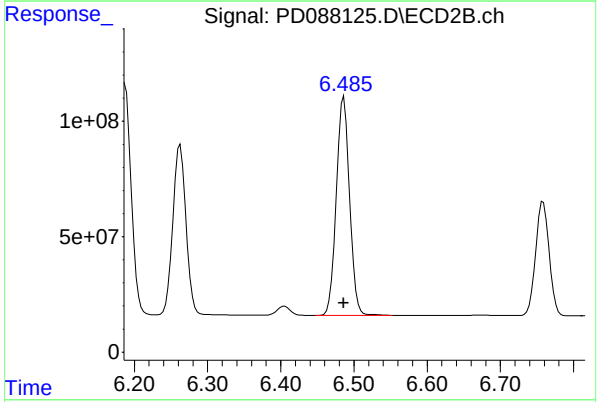
R.T.: 6.263 min
Delta R.T.: 0.000 min
Response: 920863271
Conc: 74.35 ng/ml



#19 Endosulfan Sulfate

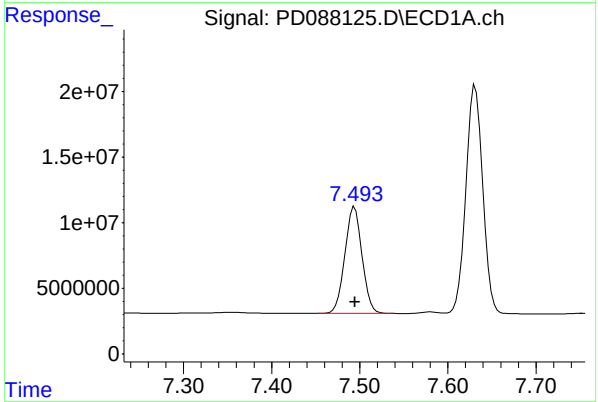
R.T.: 7.151 min
Delta R.T.: 0.000 min
Response: 213461518
Conc: 74.84 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC075



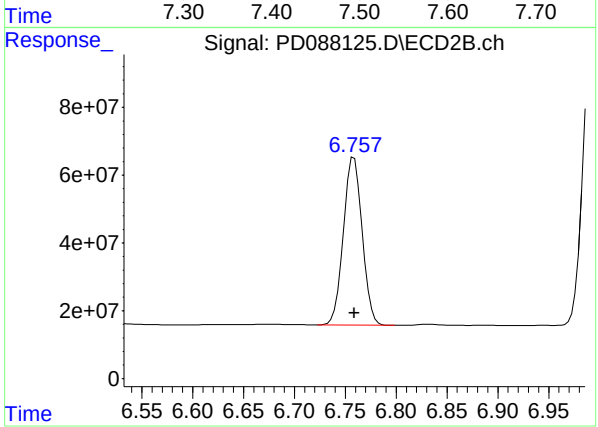
#19 Endosulfan Sulfate

R.T.: 6.486 min
Delta R.T.: 0.000 min
Response: 1192574842
Conc: 74.42 ng/ml



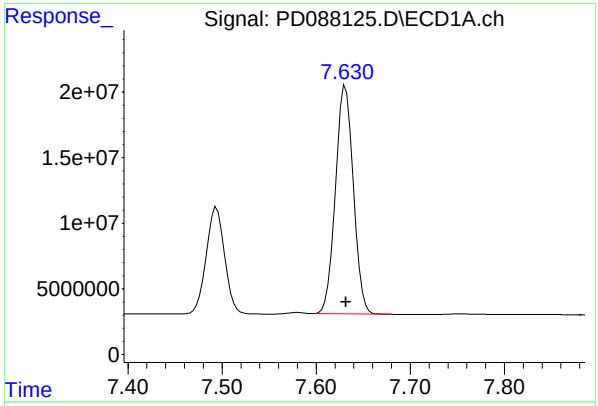
#20 Methoxychlor

R.T.: 7.494 min
Delta R.T.: 0.000 min
Response: 109977344
Conc: 75.09 ng/ml



#20 Methoxychlor

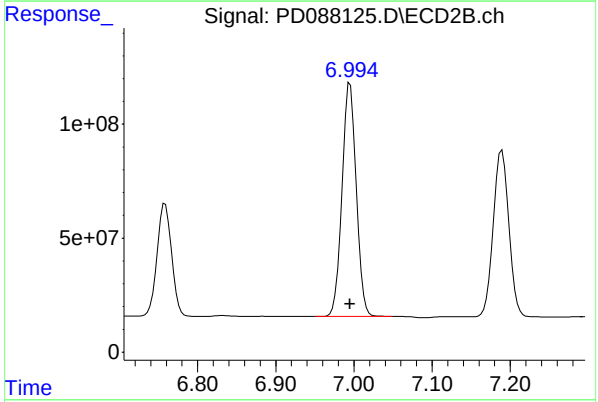
R.T.: 6.759 min
Delta R.T.: 0.000 min
Response: 635063092
Conc: 74.23 ng/ml



#21 Endrin ketone

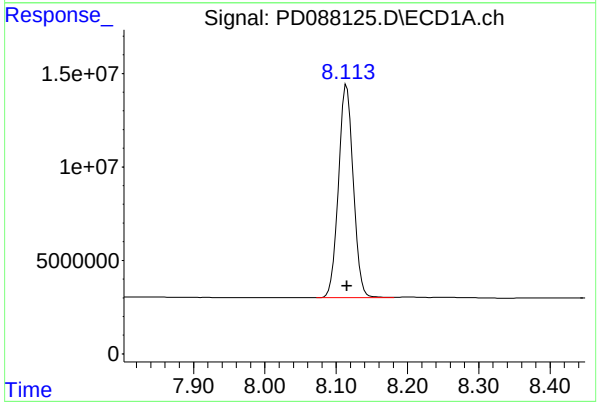
R.T.: 7.631 min
Delta R.T.: 0.000 min
Response: 230514000
Conc: 74.77 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC075



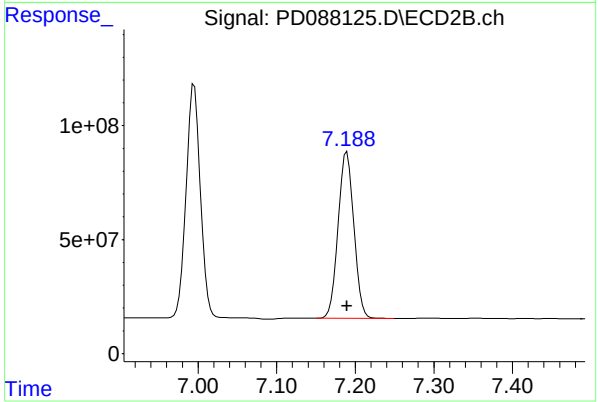
#21 Endrin ketone

R.T.: 6.995 min
Delta R.T.: 0.000 min
Response: 1294867615
Conc: 74.20 ng/ml



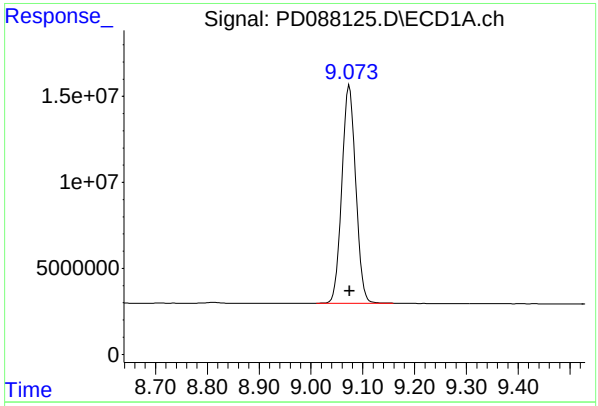
#22 Mirex

R.T.: 8.115 min
Delta R.T.: 0.000 min
Response: 163995337
Conc: 73.73 ng/ml



#22 Mirex

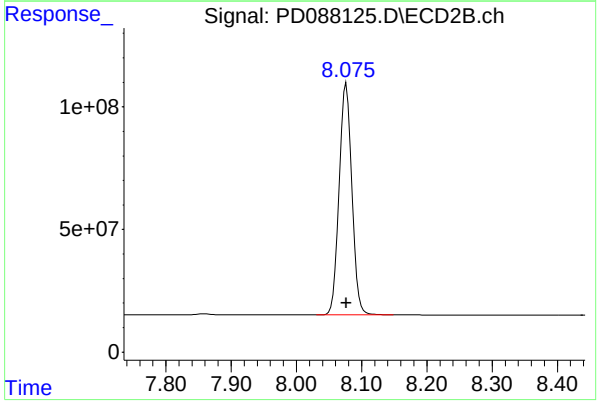
R.T.: 7.189 min
Delta R.T.: 0.000 min
Response: 1014897826
Conc: 74.21 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.074 min
Delta R.T.: 0.000 min
Response: 235584826
Conc: 75.28 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC075



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 1282367351
Conc: 74.91 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088126.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 14:24
Operator : AR\AJ
Sample : PSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 03:52:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 03:51:59 2025
Response via : Initial Calibration
Integrator: ChemStation

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

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
1)	SA	Tetrachlo...	3.552	2.883	96933779	700.5E6	50.000	50.000
28)	SA	Decachlor...	9.075	8.077	158.9E6	873.5E6	50.000	50.000
		Target Compounds						
2)	A	alpha-BHC	4.001	3.396	217.0E6	1104.5E6	50.000	50.000
3)	MA	gamma-BHC...	4.332	3.733	207.8E6	1027.9E6	50.000	50.000
4)	MA	Heptachlor	4.931	4.086	198.9E6	1026.1E6	50.000	50.000
5)	MB	Aldrin	5.273	4.373	195.6E6	1000.0E6	50.000	50.000
6)	B	beta-BHC	4.516	4.028	78949582	442.4E6	50.000	50.000
7)	B	delta-BHC	4.765	4.265	203.8E6	1023.7E6	50.000	50.000
8)	B	Heptachlo...	5.692	4.877	174.3E6	904.0E6	50.000	50.000
9)	A	Endosulfan I	6.076	5.251	165.2E6	862.3E6	50.000	50.000
10)	B	gamma-Chl...	5.947	5.130	176.8E6	971.9E6	50.000	50.000
11)	B	alpha-Chl...	6.029	5.194	176.5E6	937.8E6	50.000	50.000
12)	B	4,4'-DDE	6.197	5.380	162.0E6	943.6E6	50.000	50.000
13)	MA	Dieldrin	6.349	5.517	176.5E6	957.3E6	50.000	50.000
14)	MA	Endrin	6.576	5.793	146.8E6	873.2E6	50.000	50.000
15)	B	Endosulfa...	6.787	6.084	150.4E6	836.9E6	50.000	50.000
16)	A	4,4'-DDD	6.706	5.934	124.8E6	789.6E6	50.000	50.000
17)	MA	4,4'-DDT	7.022	6.188	137.8E6	837.3E6	50.000	50.000
18)	B	Endrin al...	6.916	6.263	112.3E6	635.4E6	50.000	50.000
19)	B	Endosulfa...	7.150	6.486	140.4E6	821.0E6	50.000	50.000
20)	A	Methoxychlor	7.495	6.759	73392410	442.0E6	50.000	50.000
21)	B	Endrin ke...	7.631	6.995	151.9E6	895.3E6	50.000	50.000
22)		Mirex	8.115	7.190	112.5E6	701.1E6	50.000	50.000

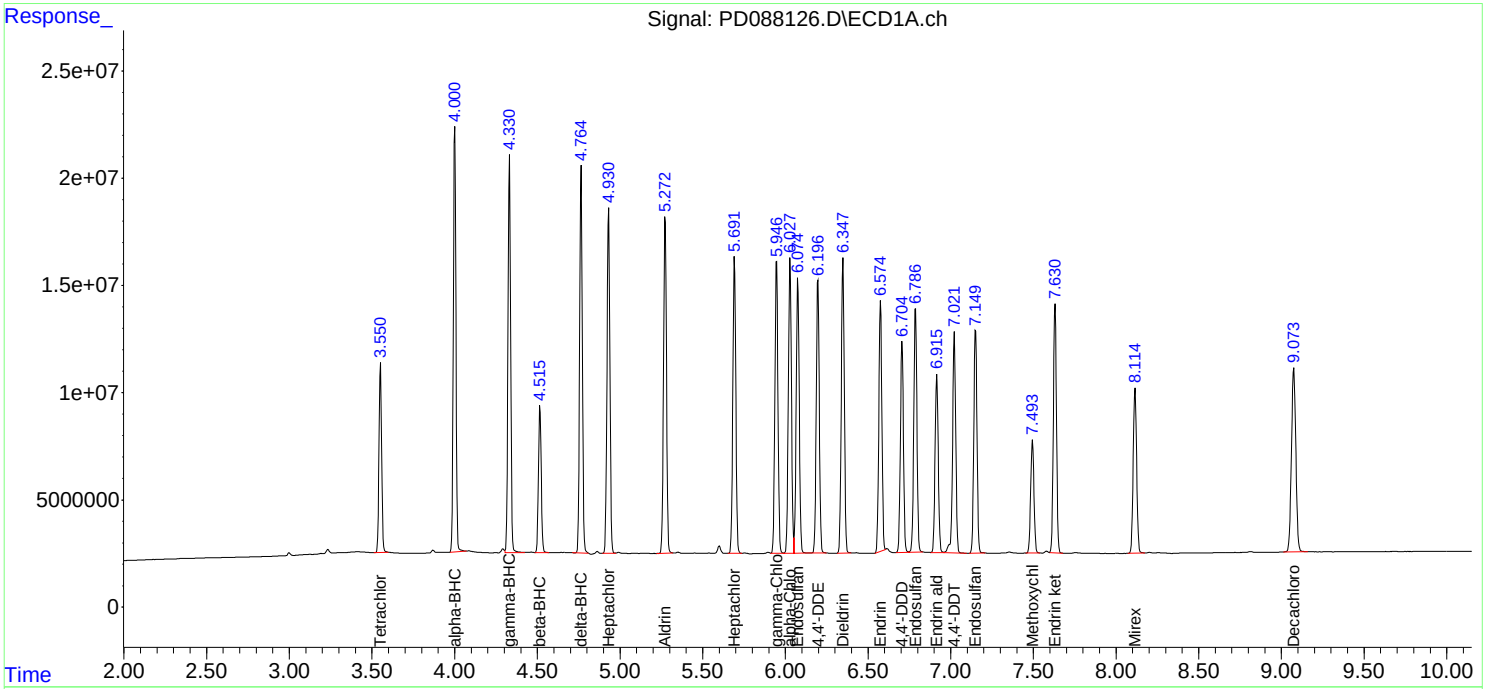
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

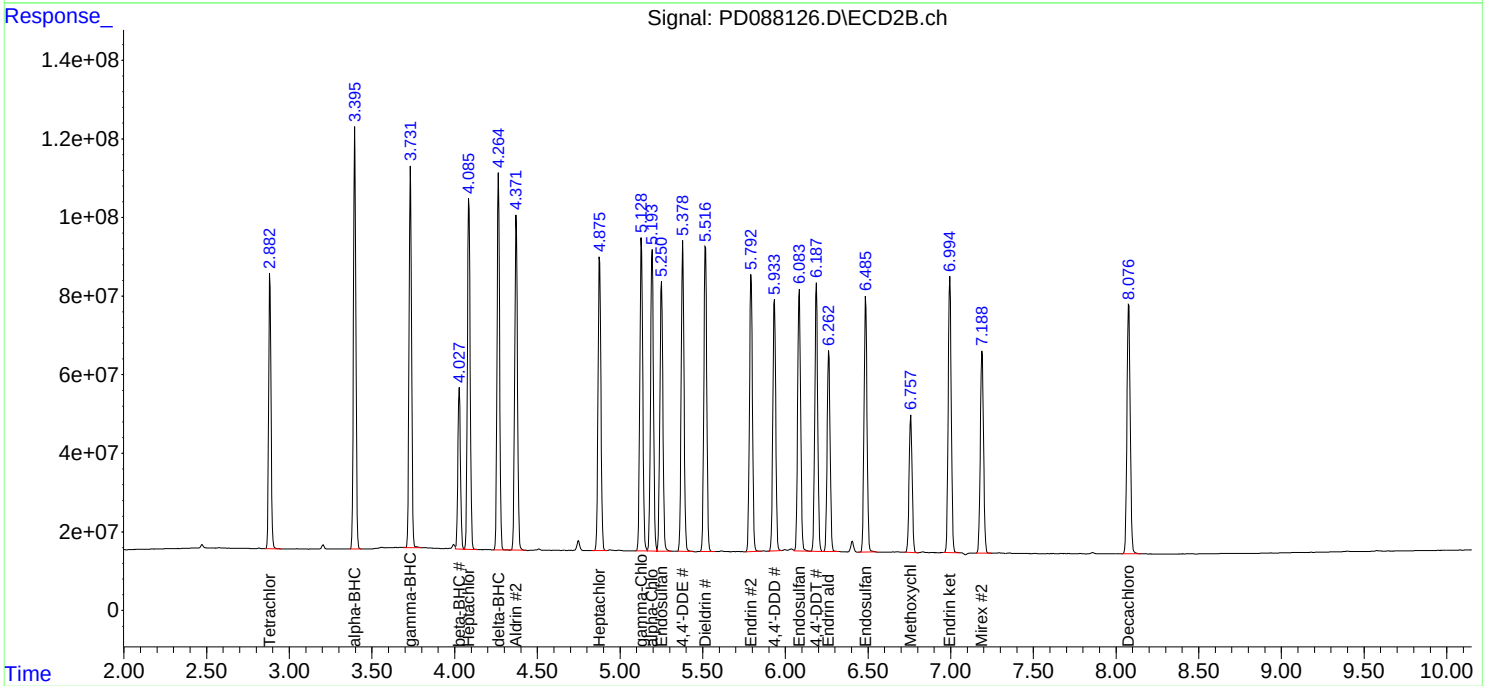
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088126.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 14:24
Operator : AR\AJ
Sample : PSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

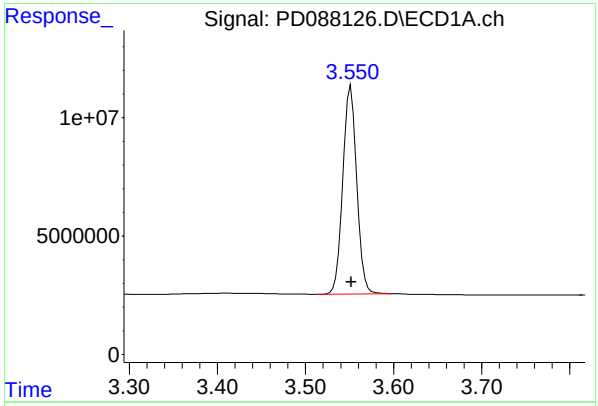
Instrument :
ECD_D
ClientSampleId :
PSTDICC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 03:52:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 03:51:59 2025
Response via : Initial Calibration
Integrator: ChemStation

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



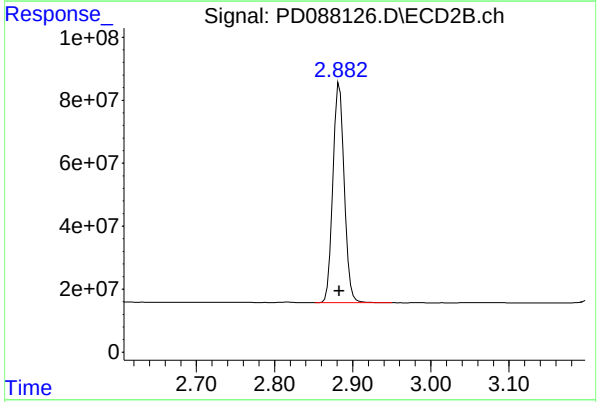




#1 Tetrachloro-m-xylene

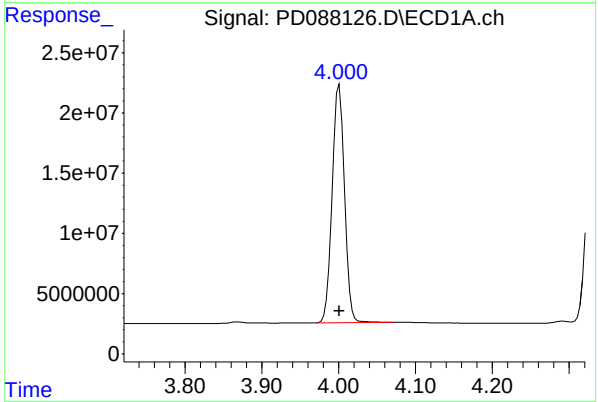
R.T.: 3.552 min
Delta R.T.: 0.000 min
Response: 96933779
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC050



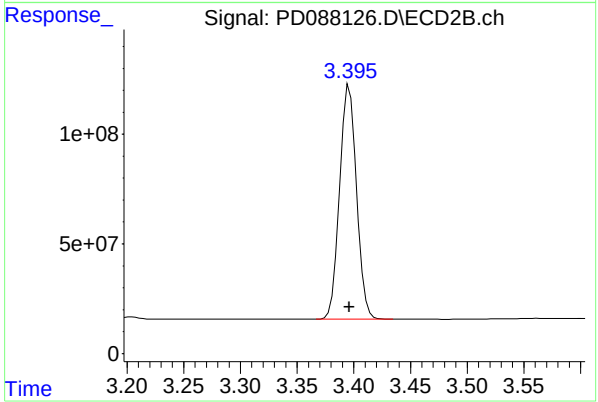
#1 Tetrachloro-m-xylene

R.T.: 2.883 min
Delta R.T.: 0.000 min
Response: 700540857
Conc: 50.00 ng/ml



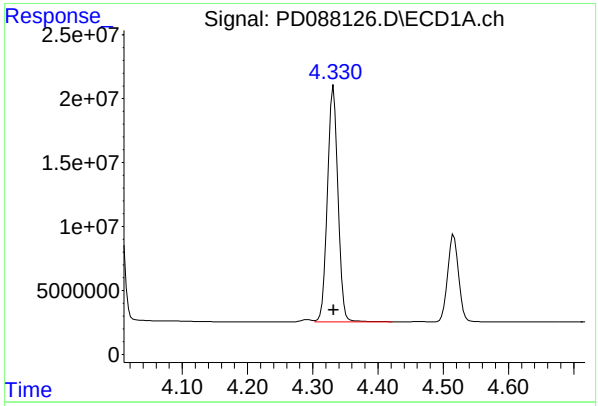
#2 alpha-BHC

R.T.: 4.001 min
Delta R.T.: 0.000 min
Response: 217039859
Conc: 50.00 ng/ml



#2 alpha-BHC

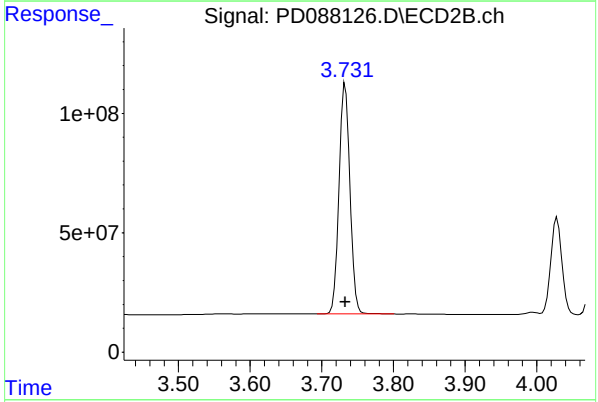
R.T.: 3.396 min
Delta R.T.: 0.000 min
Response: 1104520093
Conc: 50.00 ng/ml



#3 gamma-BHC (Lindane)

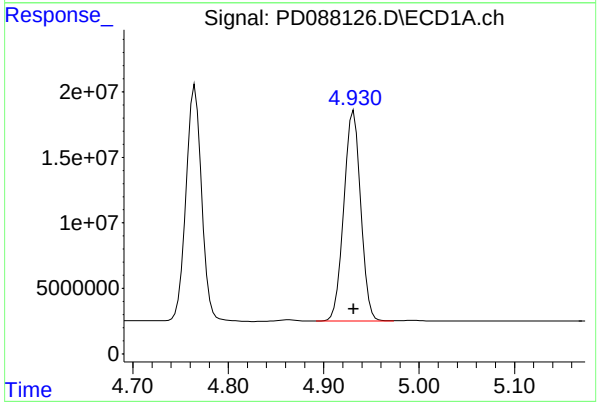
R.T.: 4.332 min
Delta R.T.: 0.000 min
Response: 207751325
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC050



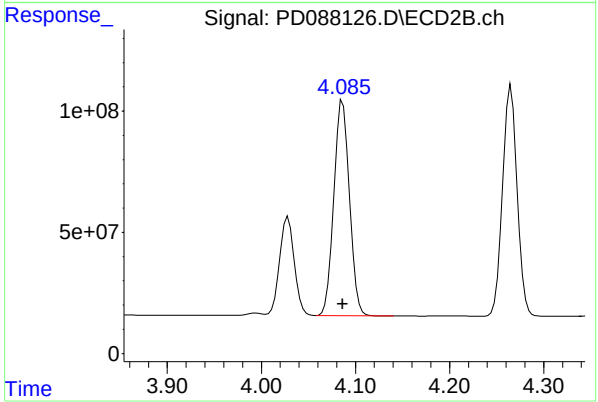
#3 gamma-BHC (Lindane)

R.T.: 3.733 min
Delta R.T.: 0.000 min
Response: 1027903966
Conc: 50.00 ng/ml



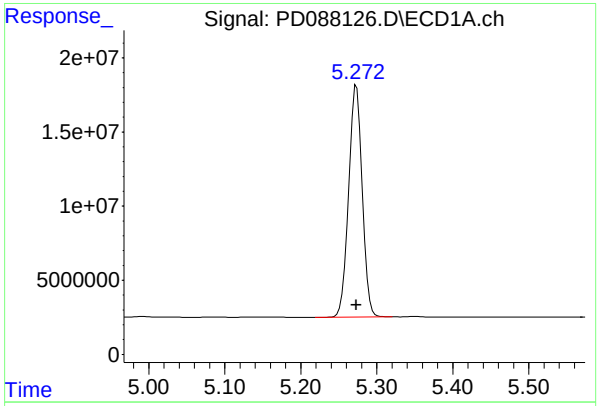
#4 Heptachlor

R.T.: 4.931 min
Delta R.T.: 0.000 min
Response: 198909748
Conc: 50.00 ng/ml



#4 Heptachlor

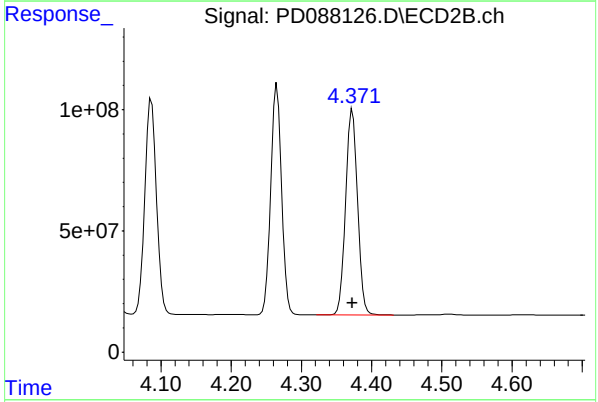
R.T.: 4.086 min
Delta R.T.: 0.000 min
Response: 1026135533
Conc: 50.00 ng/ml



#5 Aldrin

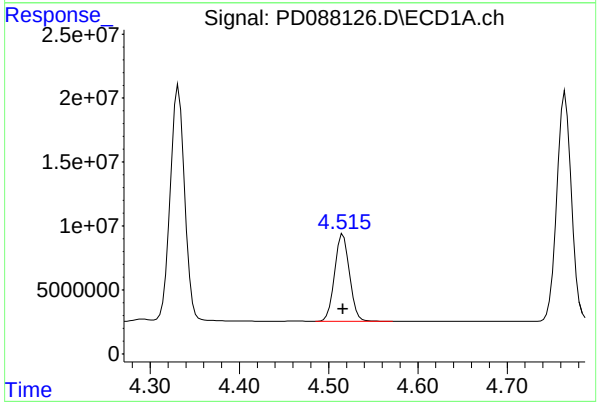
R.T.: 5.273 min
Delta R.T.: 0.000 min
Response: 195589589
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC050



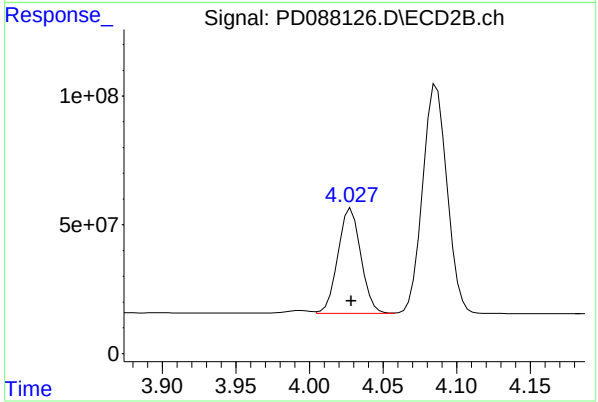
#5 Aldrin

R.T.: 4.373 min
Delta R.T.: 0.000 min
Response: 1000002304
Conc: 50.00 ng/ml



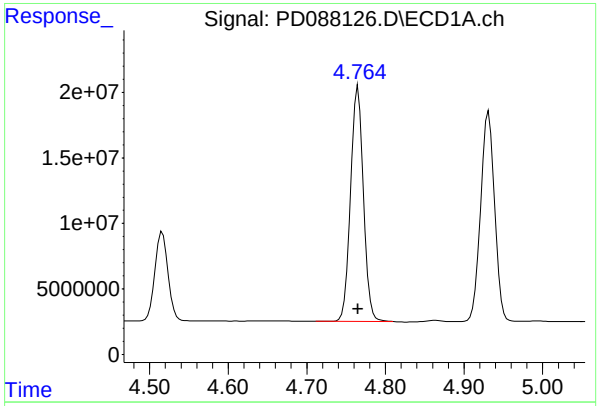
#6 beta-BHC

R.T.: 4.516 min
Delta R.T.: 0.000 min
Response: 78949582
Conc: 50.00 ng/ml



#6 beta-BHC

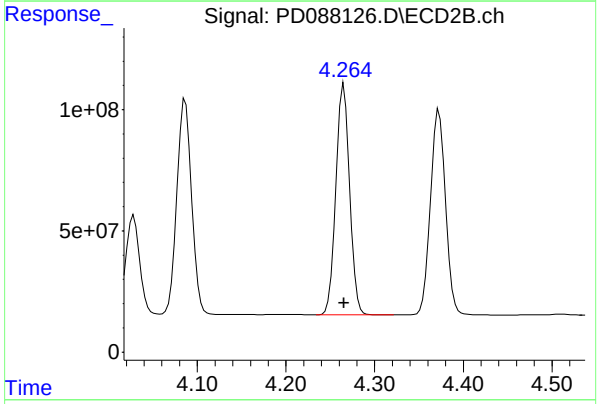
R.T.: 4.028 min
Delta R.T.: 0.000 min
Response: 442374025
Conc: 50.00 ng/ml



#7 delta-BHC

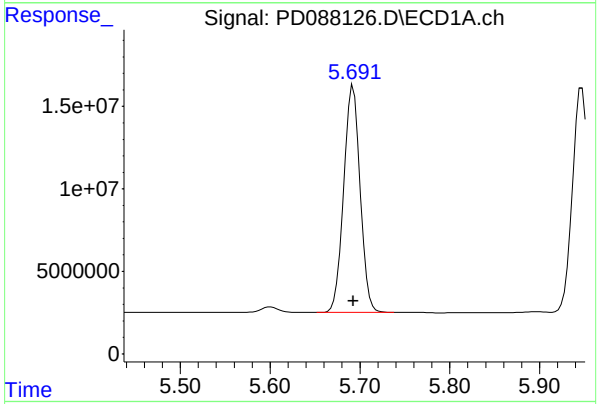
R.T.: 4.765 min
Delta R.T.: 0.000 min
Response: 203787804
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC050



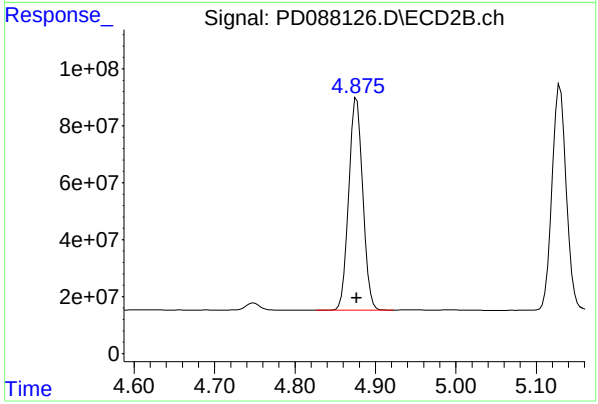
#7 delta-BHC

R.T.: 4.265 min
Delta R.T.: 0.000 min
Response: 1023672335
Conc: 50.00 ng/ml



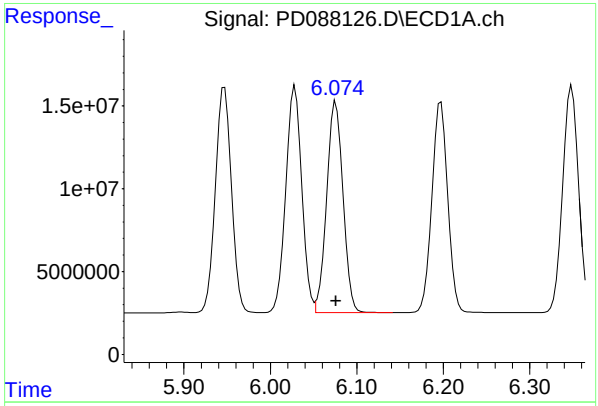
#8 Heptachlor epoxide

R.T.: 5.692 min
Delta R.T.: 0.000 min
Response: 174316272
Conc: 50.00 ng/ml



#8 Heptachlor epoxide

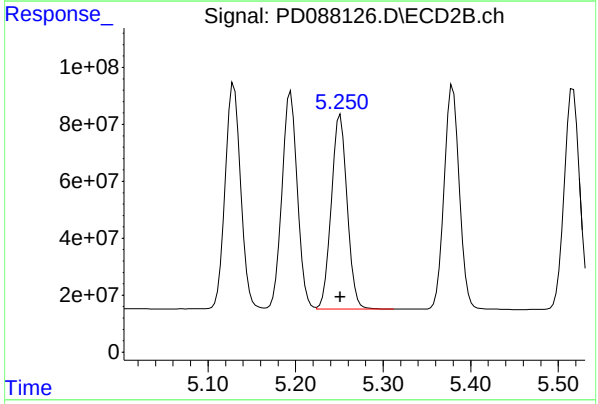
R.T.: 4.877 min
Delta R.T.: 0.000 min
Response: 903984042
Conc: 50.00 ng/ml



#9 Endosulfan I

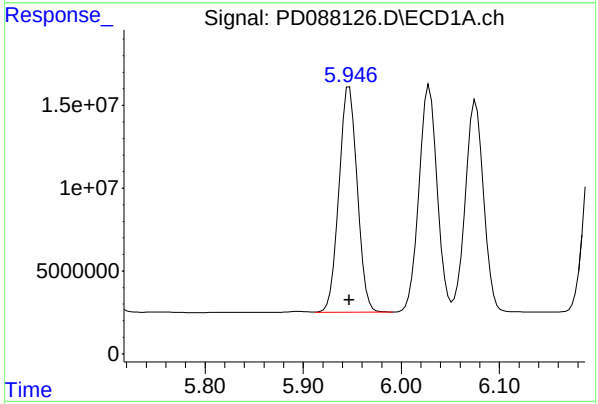
R.T.: 6.076 min
Delta R.T.: 0.000 min
Response: 165202172
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC050



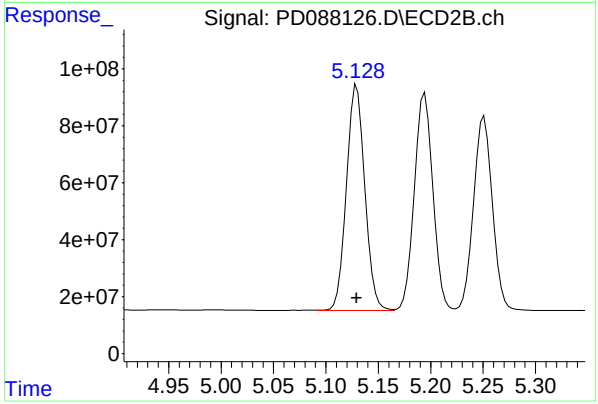
#9 Endosulfan I

R.T.: 5.251 min
Delta R.T.: 0.000 min
Response: 862333672
Conc: 50.00 ng/ml



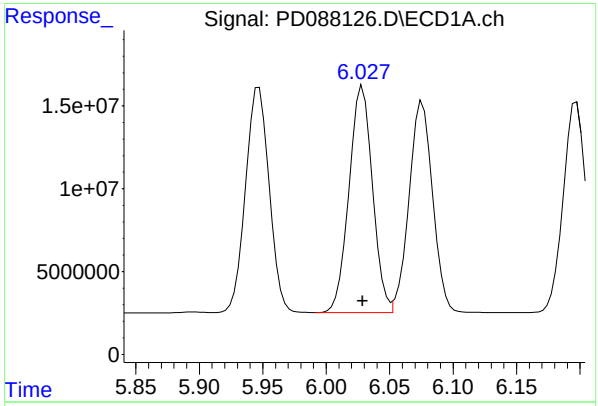
#10 gamma-Chlordane

R.T.: 5.947 min
Delta R.T.: 0.000 min
Response: 176813599
Conc: 50.00 ng/ml



#10 gamma-Chlordane

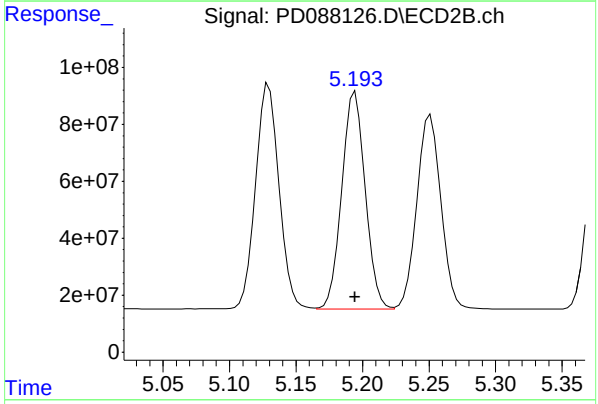
R.T.: 5.130 min
Delta R.T.: 0.000 min
Response: 971860979
Conc: 50.00 ng/ml



#11 alpha-Chlordane

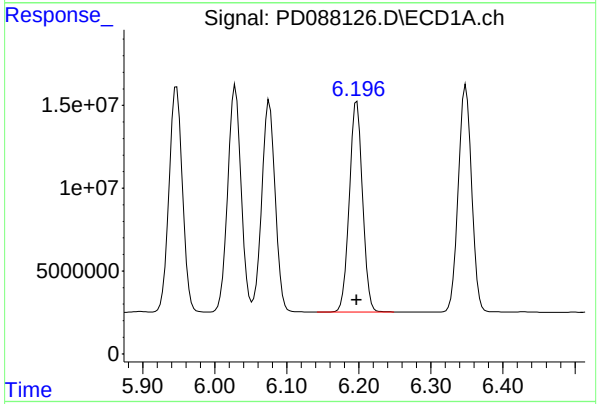
R.T.: 6.029 min
Delta R.T.: 0.000 min
Response: 176476022
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC050



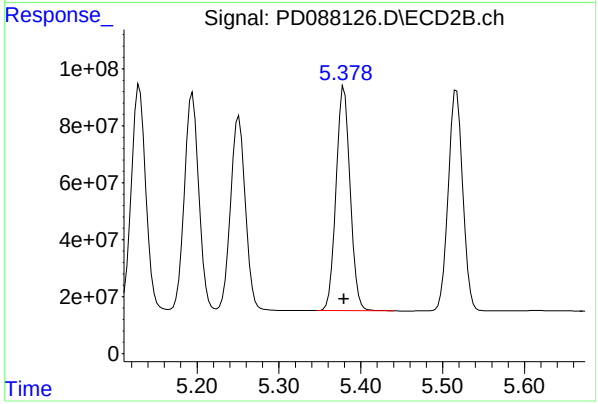
#11 alpha-Chlordane

R.T.: 5.194 min
Delta R.T.: 0.000 min
Response: 937759475
Conc: 50.00 ng/ml



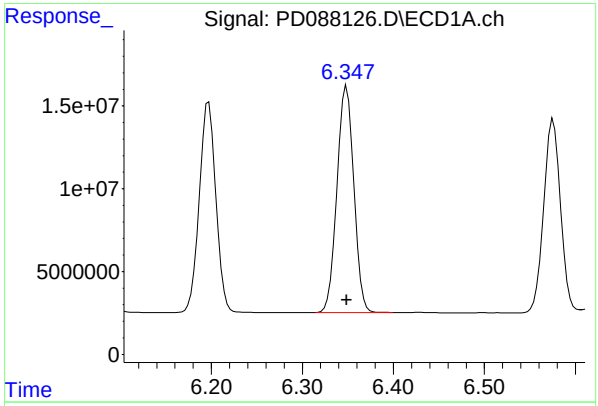
#12 4,4'-DDE

R.T.: 6.197 min
Delta R.T.: 0.000 min
Response: 162007280
Conc: 50.00 ng/ml



#12 4,4'-DDE

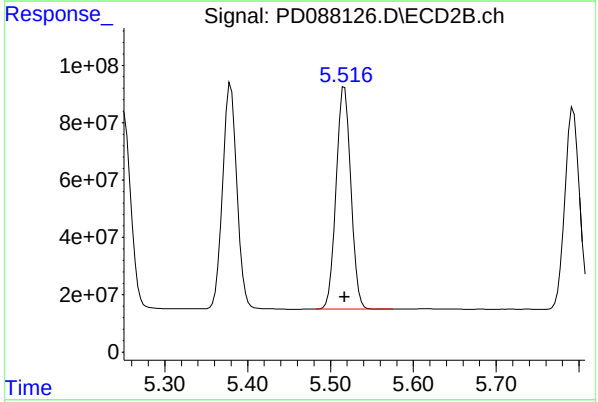
R.T.: 5.380 min
Delta R.T.: 0.000 min
Response: 943628222
Conc: 50.00 ng/ml



#13 Dieldrin

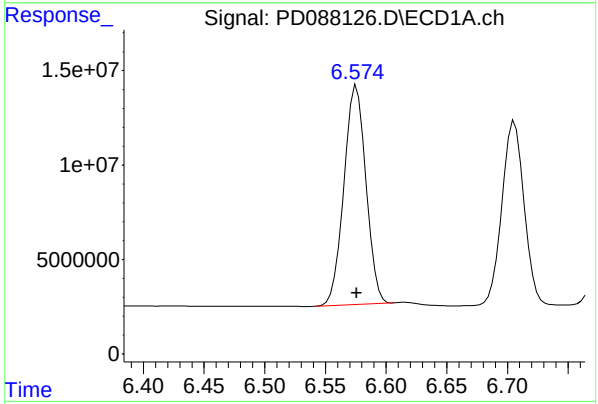
R.T.: 6.349 min
Delta R.T.: 0.000 min
Response: 176519294
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC050



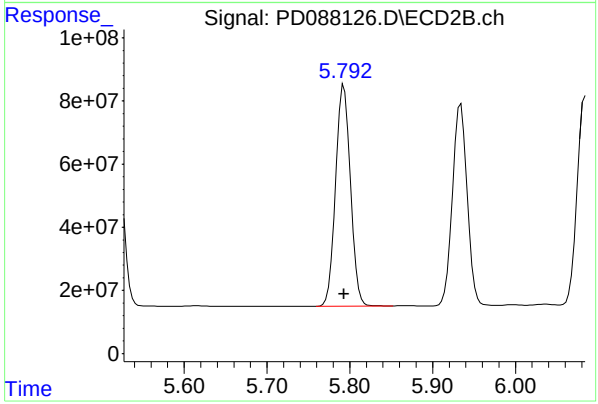
#13 Dieldrin

R.T.: 5.517 min
Delta R.T.: 0.000 min
Response: 957317811
Conc: 50.00 ng/ml



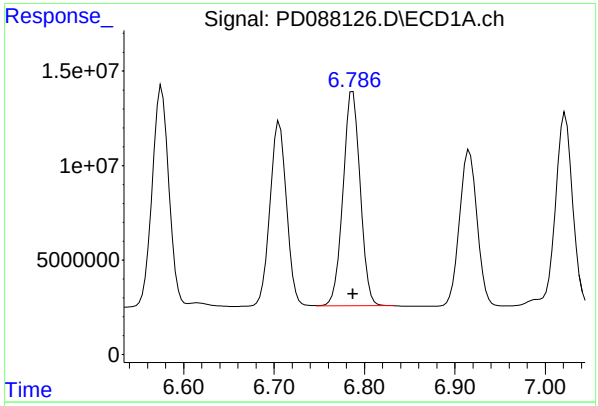
#14 Endrin

R.T.: 6.576 min
Delta R.T.: 0.000 min
Response: 146772387
Conc: 50.00 ng/ml



#14 Endrin

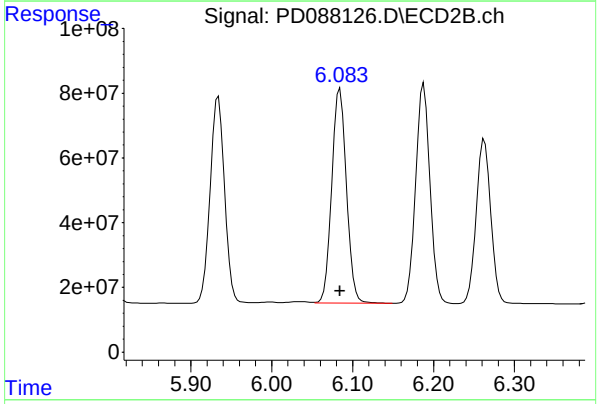
R.T.: 5.793 min
Delta R.T.: 0.000 min
Response: 873226205
Conc: 50.00 ng/ml



#15 Endosulfan II

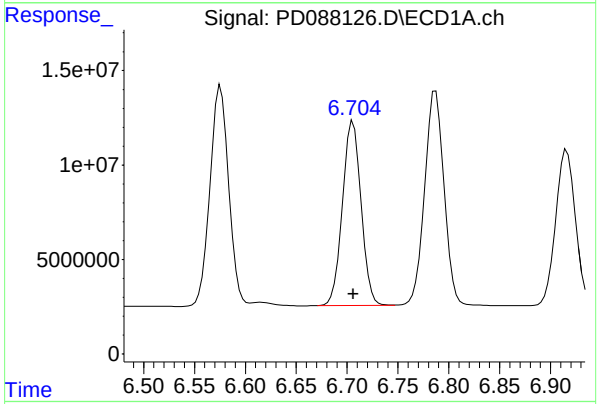
R.T.: 6.787 min
Delta R.T.: 0.000 min
Response: 150375802
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC050



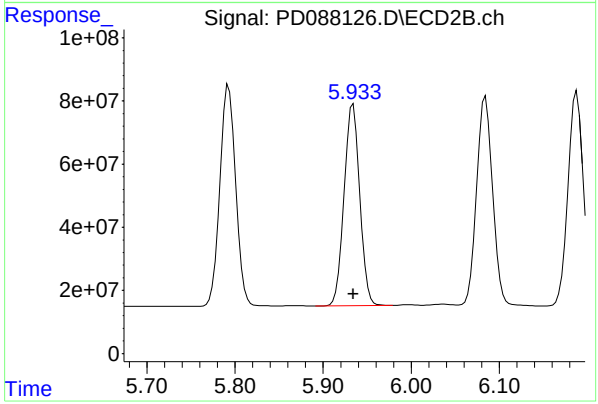
#15 Endosulfan II

R.T.: 6.084 min
Delta R.T.: 0.000 min
Response: 836889616
Conc: 50.00 ng/ml



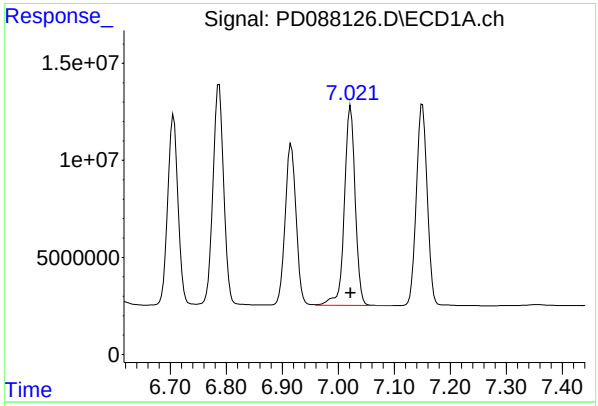
#16 4,4'-DDD

R.T.: 6.706 min
Delta R.T.: 0.000 min
Response: 124750340
Conc: 50.00 ng/ml



#16 4,4'-DDD

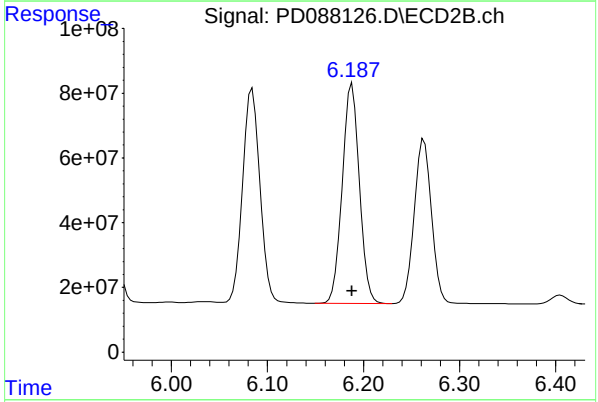
R.T.: 5.934 min
Delta R.T.: 0.000 min
Response: 789609825
Conc: 50.00 ng/ml



#17 4,4'-DDT

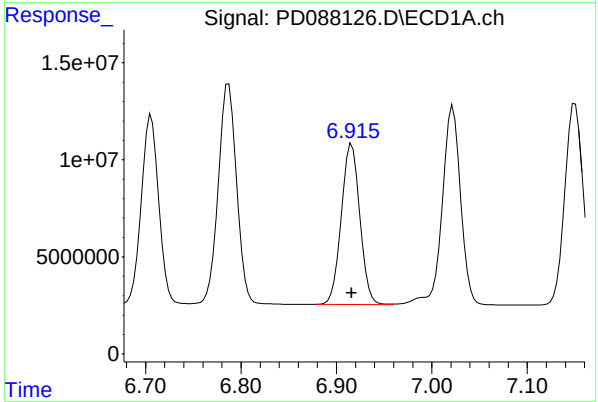
R.T.: 7.022 min
Delta R.T.: 0.000 min
Response: 137750548
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC050



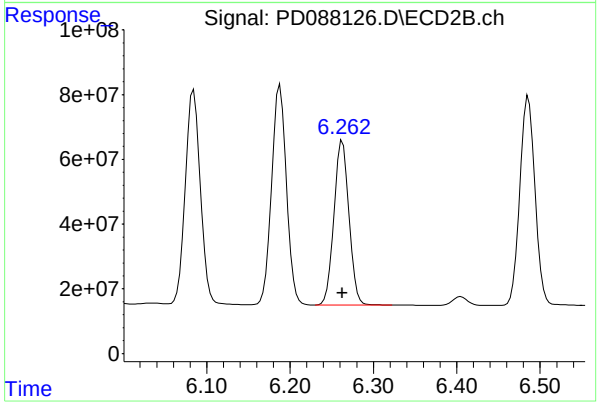
#17 4,4'-DDT

R.T.: 6.188 min
Delta R.T.: 0.000 min
Response: 837283239
Conc: 50.00 ng/ml



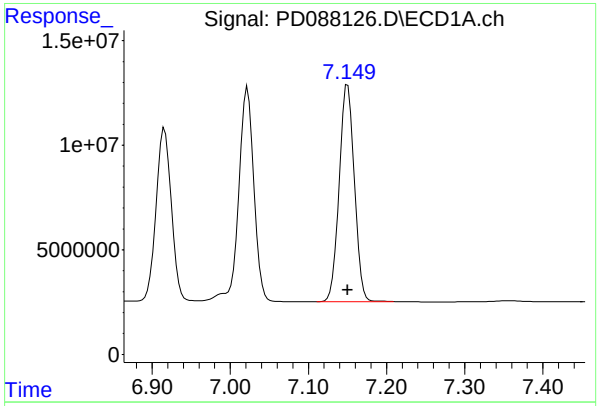
#18 Endrin aldehyde

R.T.: 6.916 min
Delta R.T.: 0.000 min
Response: 112343483
Conc: 50.00 ng/ml



#18 Endrin aldehyde

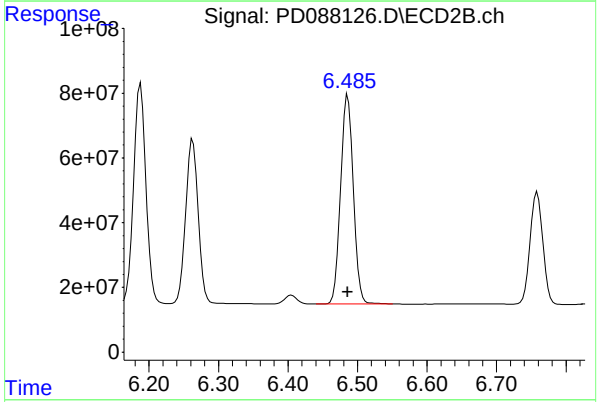
R.T.: 6.263 min
Delta R.T.: 0.000 min
Response: 635359680
Conc: 50.00 ng/ml



#19 Endosulfan Sulfate

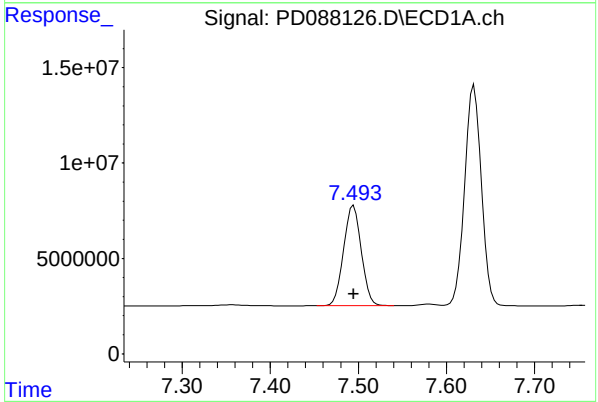
R.T.: 7.150 min
Delta R.T.: 0.000 min
Response: 140378569
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC050



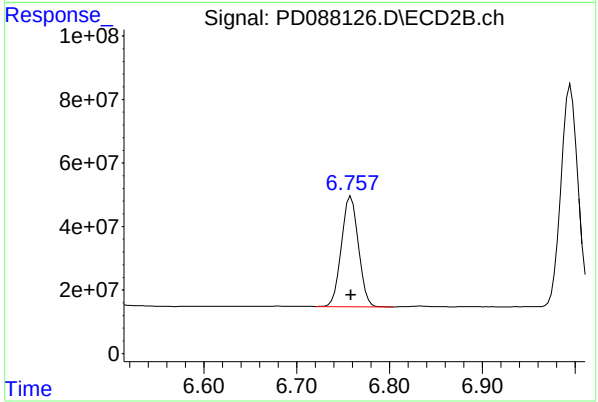
#19 Endosulfan Sulfate

R.T.: 6.486 min
Delta R.T.: 0.000 min
Response: 820966120
Conc: 50.00 ng/ml



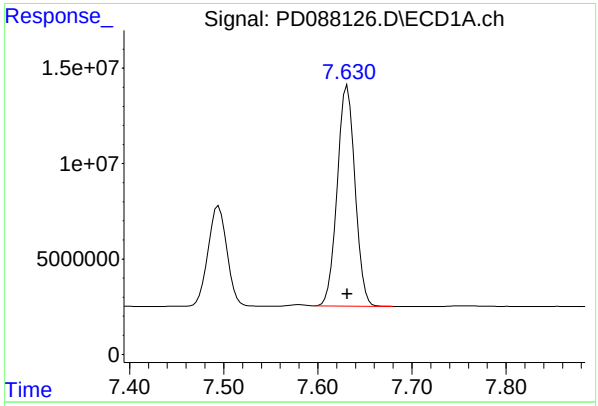
#20 Methoxychlor

R.T.: 7.495 min
Delta R.T.: 0.000 min
Response: 73392410
Conc: 50.00 ng/ml



#20 Methoxychlor

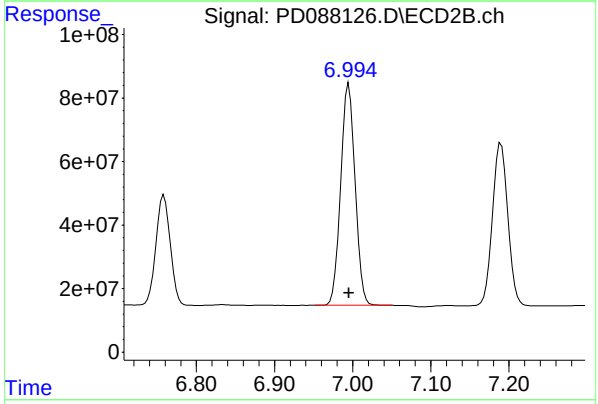
R.T.: 6.759 min
Delta R.T.: 0.000 min
Response: 441962203
Conc: 50.00 ng/ml



#21 Endrin ketone

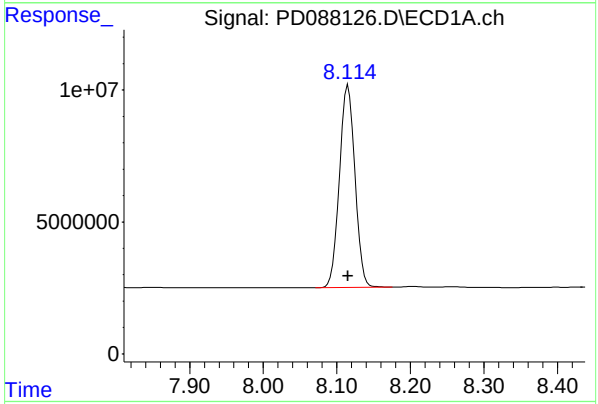
R.T.: 7.631 min
Delta R.T.: 0.000 min
Response: 151874924
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC050



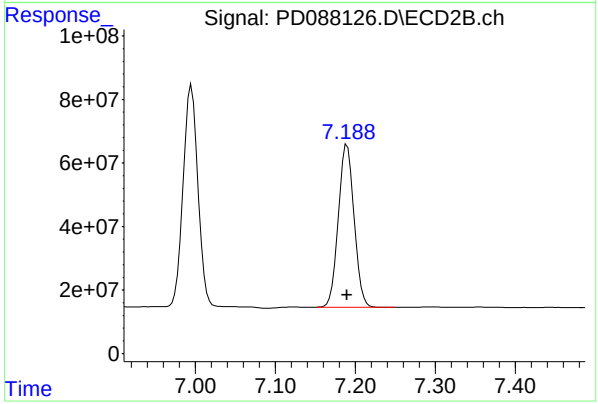
#21 Endrin ketone

R.T.: 6.995 min
Delta R.T.: 0.000 min
Response: 895263874
Conc: 50.00 ng/ml



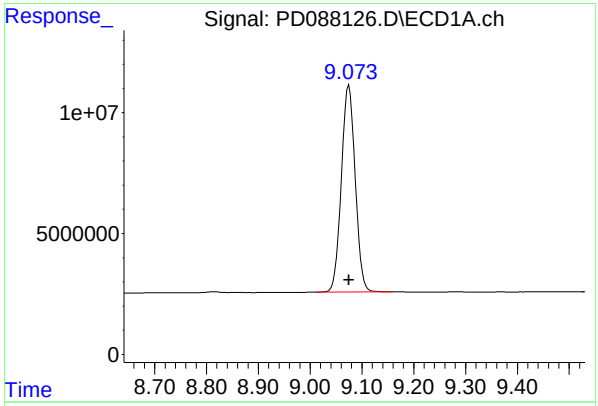
#22 Mirex

R.T.: 8.115 min
Delta R.T.: 0.000 min
Response: 112481599
Conc: 50.00 ng/ml



#22 Mirex

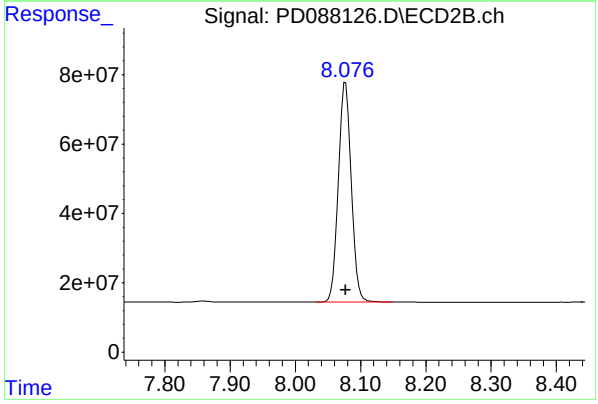
R.T.: 7.190 min
Delta R.T.: 0.000 min
Response: 701086026
Conc: 50.00 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.075 min
Delta R.T.: 0.000 min
Response: 158907029
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC050



#28 Decachlorobiphenyl

R.T.: 8.077 min
Delta R.T.: 0.000 min
Response: 873516533
Conc: 50.00 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088127.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 14:37
Operator : AR\AJ
Sample : PSTDICC025
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 03:53:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 03:51:59 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.551	2.883	48091567	363.8E6	24.806	25.964
28)	SA Decachlor...	9.075	8.076	82258935	459.7E6	25.883	26.313
	Target Compounds						
2)	A alpha-BHC	4.001	3.396	99341615	563.0E6	22.886	25.485
3)	MA gamma-BHC...	4.332	3.733	97186739	528.4E6	23.390	25.704
4)	MA Heptachlor	4.932	4.087	94534629	532.5E6	23.763	25.945
5)	MB Aldrin	5.273	4.373	92978704	517.9E6	23.769	25.894
6)	B beta-BHC	4.516	4.028	39603540	232.3E6	25.082	26.257
7)	B delta-BHC	4.765	4.265	96272367	525.8E6	23.621	25.682
8)	B Heptachlo...	5.693	4.877	84745348	472.0E6	24.308	26.106
9)	A Endosulfan I	6.076	5.251	80453509	451.6E6	24.350	26.184
10)	B gamma-Chl...	5.948	5.130	85075416	502.2E6	24.058	25.835
11)	B alpha-Chl...	6.029	5.194	85660342	486.4E6	24.270	25.934
12)	B 4,4'-DDE	6.198	5.380	76777577	489.5E6	23.696	25.940
13)	MA Dieldrin	6.349	5.517	84286018	497.2E6	23.874	25.966
14)	MA Endrin	6.576	5.793	70161483	455.4E6	23.901	26.075
15)	B Endosulfa...	6.788	6.085	74367338	438.3E6	24.727	26.186
16)	A 4,4'-DDD	6.707	5.934	59400090	409.0E6	23.808	25.900
17)	MA 4,4'-DDT	7.023	6.188	65746503	426.6E6	23.864	25.475
18)	B Endrin al...	6.917	6.263	55861887	333.7E6	24.862	26.261
19)	B Endosulfa...	7.151	6.487	69350501	430.0E6	24.701	26.189
20)	A Methoxychlor	7.495	6.759	37082247	232.3E6	25.263	26.276
21)	B Endrin ke...	7.632	6.995	74459471	469.5E6	24.513	26.222
22)	Mirex	8.116	7.190	58667661	372.6E6	26.079	26.570

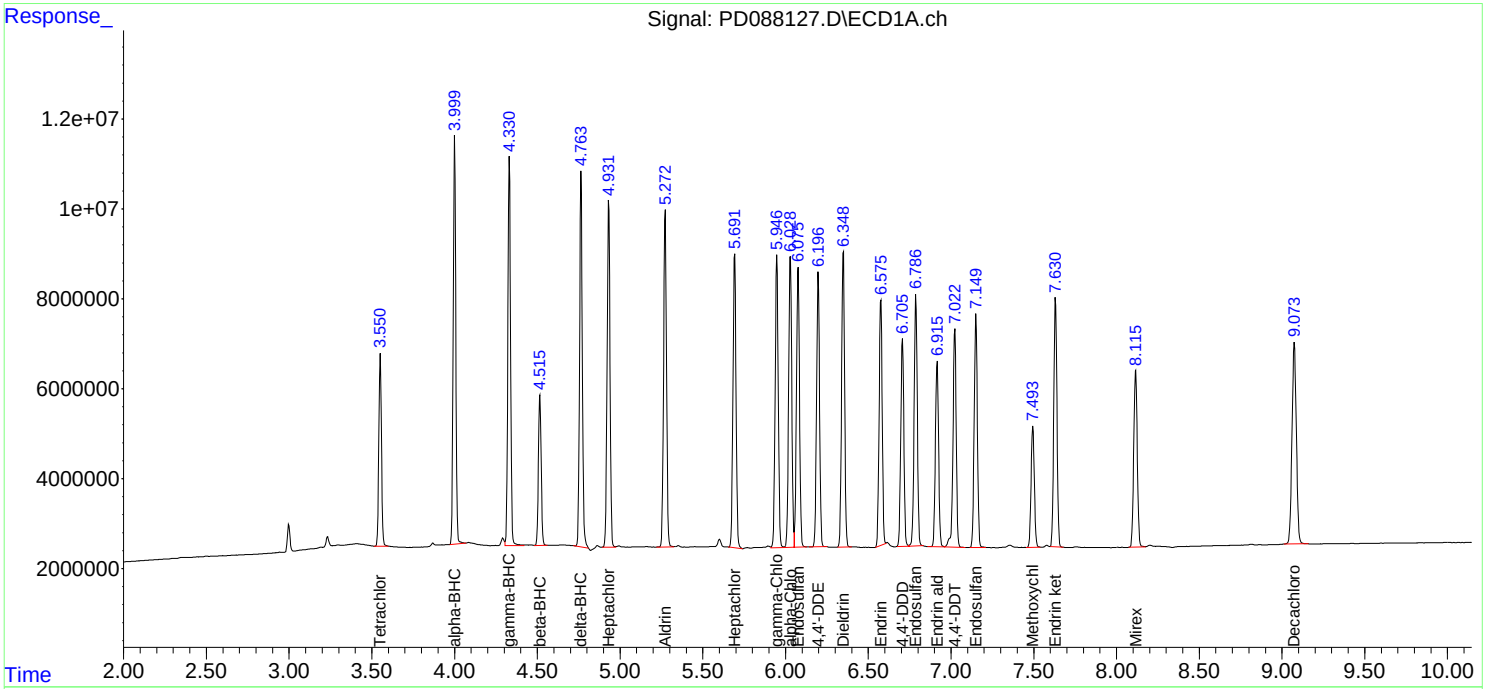
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

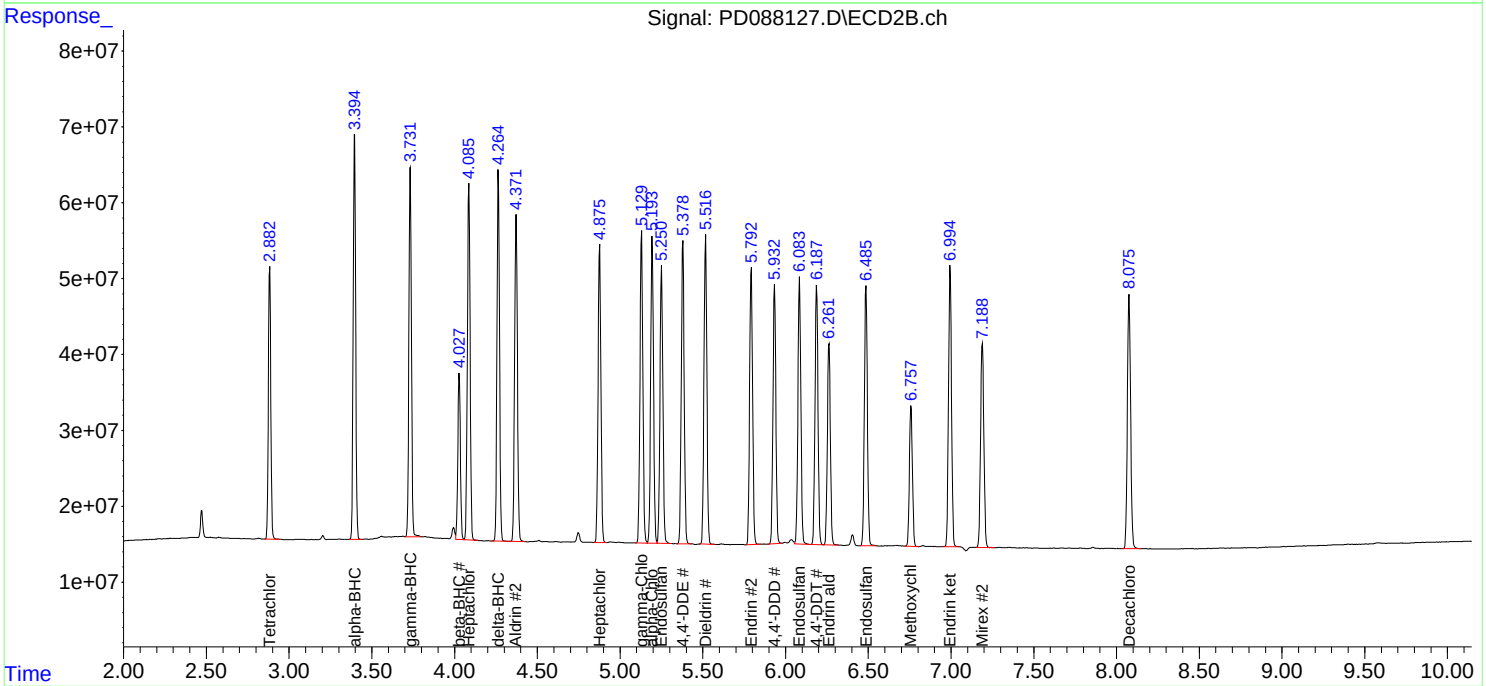
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088127.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 14:37
Operator : AR\AJ
Sample : PSTDICC025
Misc :
ALS Vial : 8 Sample Multiplier: 1

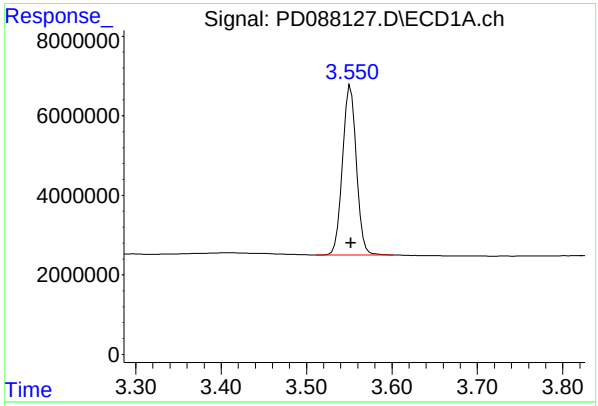
Instrument :
ECD_D
ClientSampleId :
PSTDICC025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 03:53:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 03:51:59 2025
Response via : Initial Calibration
Integrator: ChemStation

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



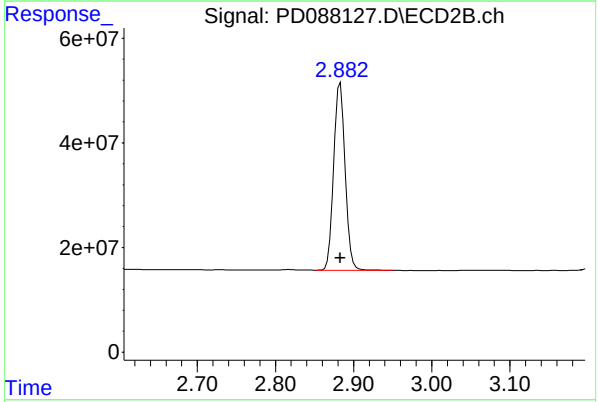




#1 Tetrachloro-m-xylene

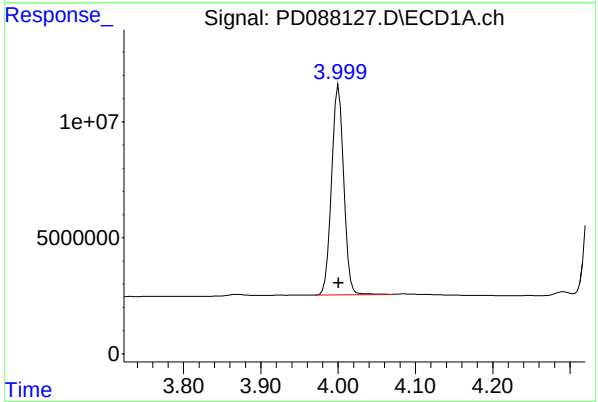
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 48091567
Conc: 24.81 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC025



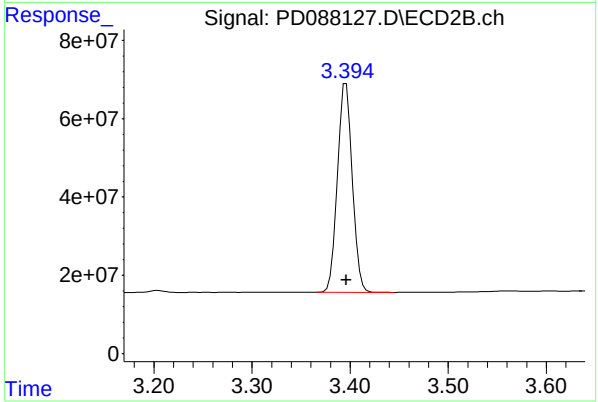
#1 Tetrachloro-m-xylene

R.T.: 2.883 min
Delta R.T.: 0.000 min
Response: 363778832
Conc: 25.96 ng/ml



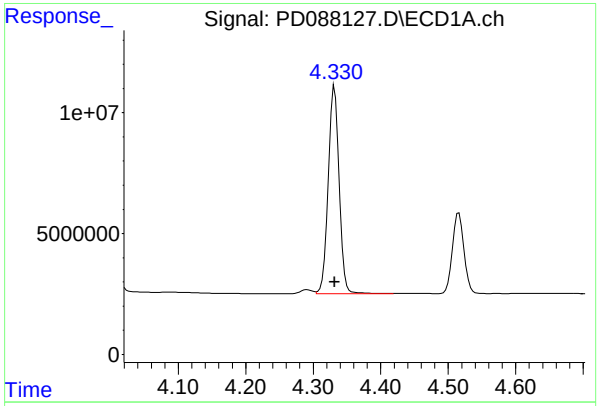
#2 alpha-BHC

R.T.: 4.001 min
Delta R.T.: 0.000 min
Response: 99341615
Conc: 22.89 ng/ml



#2 alpha-BHC

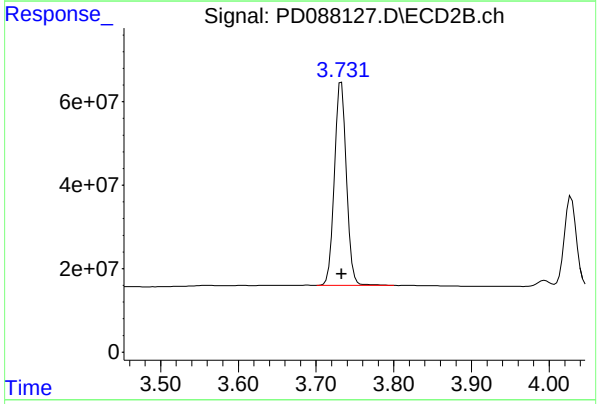
R.T.: 3.396 min
Delta R.T.: 0.000 min
Response: 562974449
Conc: 25.49 ng/ml



#3 gamma-BHC (Lindane)

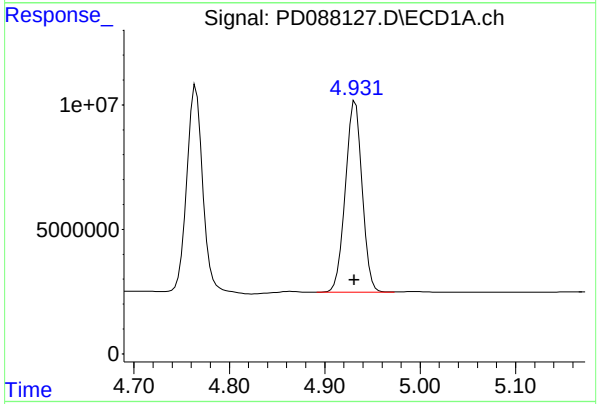
R.T.: 4.332 min
Delta R.T.: 0.000 min
Response: 97186739
Conc: 23.39 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC025



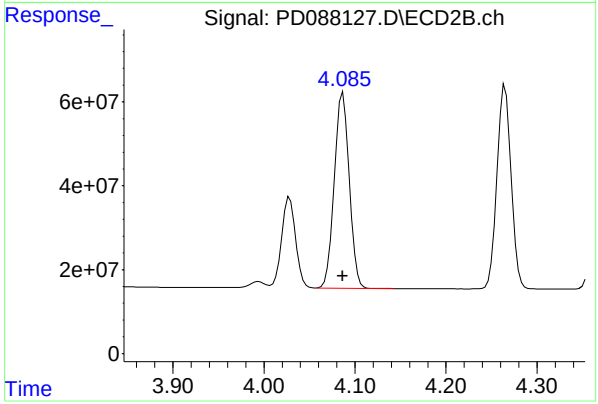
#3 gamma-BHC (Lindane)

R.T.: 3.733 min
Delta R.T.: 0.000 min
Response: 528430961
Conc: 25.70 ng/ml



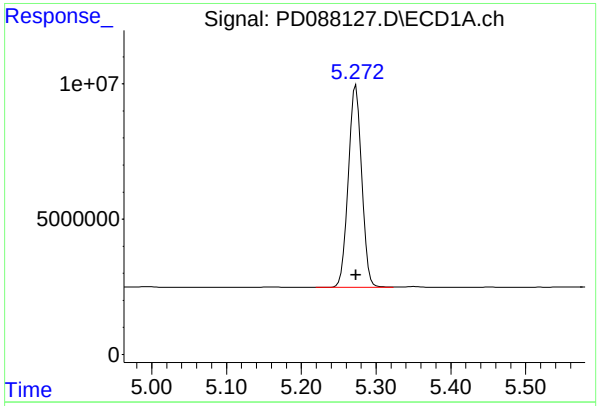
#4 Heptachlor

R.T.: 4.932 min
Delta R.T.: 0.000 min
Response: 94534629
Conc: 23.76 ng/ml



#4 Heptachlor

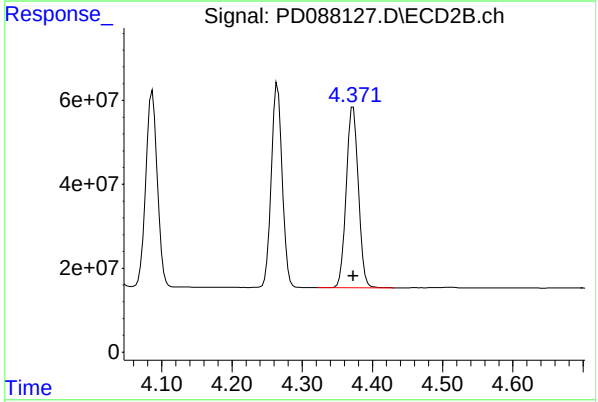
R.T.: 4.087 min
Delta R.T.: 0.000 min
Response: 532471005
Conc: 25.95 ng/ml



#5 Aldrin

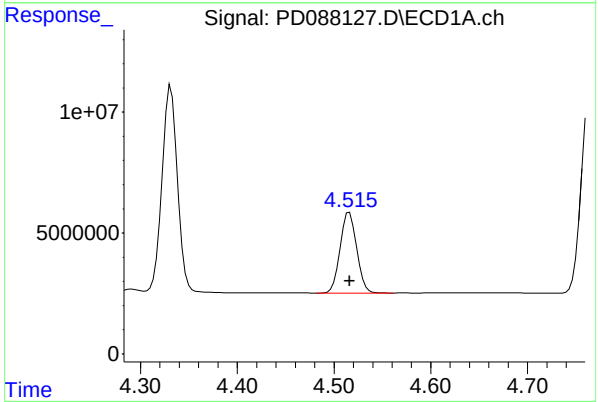
R.T.: 5.273 min
Delta R.T.: 0.000 min
Response: 92978704
Conc: 23.77 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC025



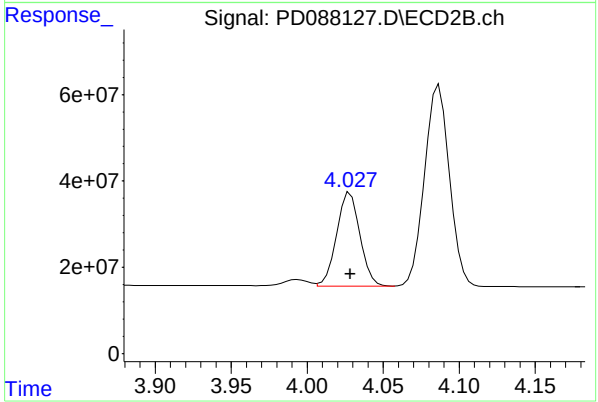
#5 Aldrin

R.T.: 4.373 min
Delta R.T.: 0.000 min
Response: 517887879
Conc: 25.89 ng/ml



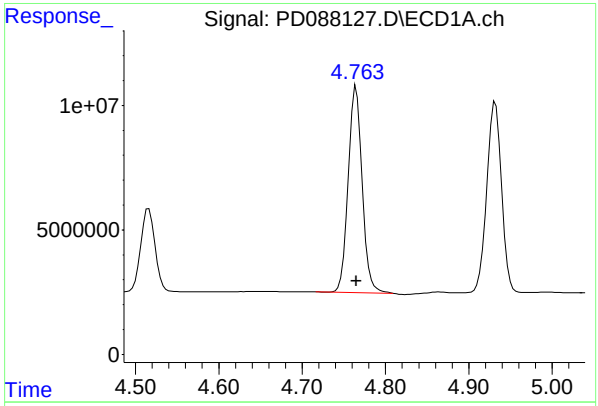
#6 beta-BHC

R.T.: 4.516 min
Delta R.T.: 0.000 min
Response: 39603540
Conc: 25.08 ng/ml



#6 beta-BHC

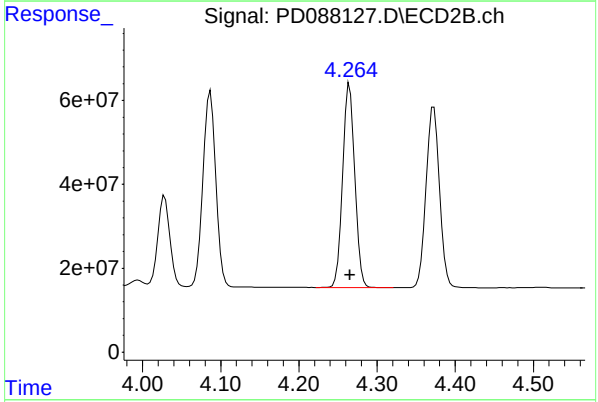
R.T.: 4.028 min
Delta R.T.: 0.000 min
Response: 232311847
Conc: 26.26 ng/ml



#7 delta-BHC

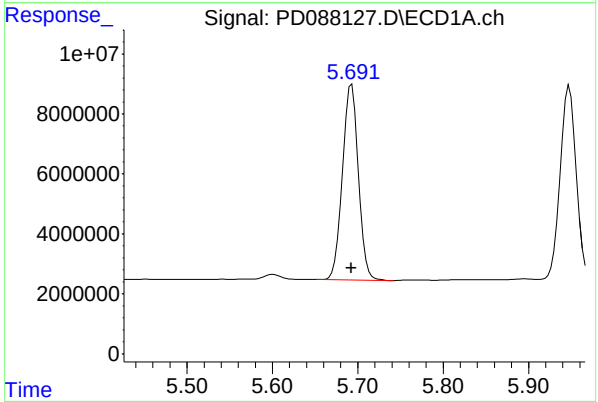
R.T.: 4.765 min
Delta R.T.: 0.000 min
Response: 96272367
Conc: 23.62 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC025



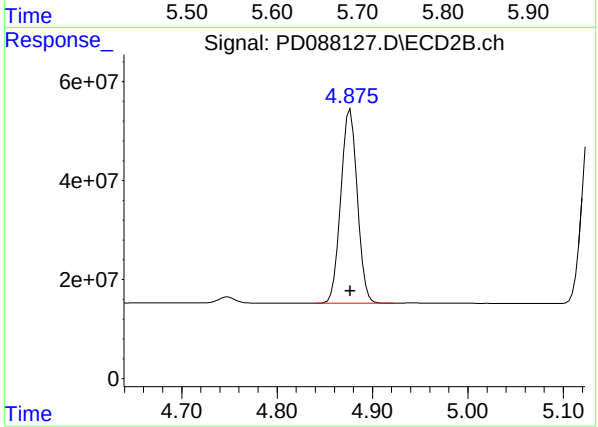
#7 delta-BHC

R.T.: 4.265 min
Delta R.T.: 0.000 min
Response: 525797541
Conc: 25.68 ng/ml



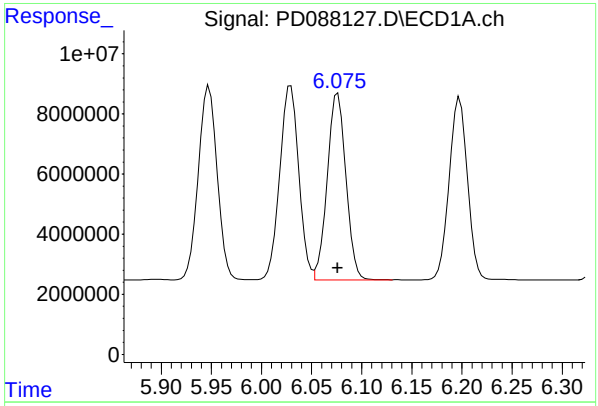
#8 Heptachlor epoxide

R.T.: 5.693 min
Delta R.T.: 0.000 min
Response: 84745348
Conc: 24.31 ng/ml



#8 Heptachlor epoxide

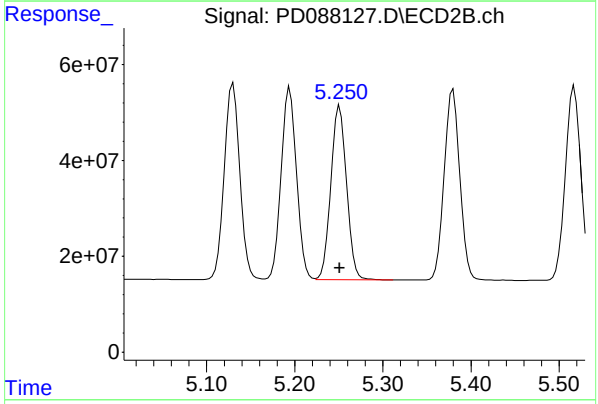
R.T.: 4.877 min
Delta R.T.: 0.000 min
Response: 471979831
Conc: 26.11 ng/ml



#9 Endosulfan I

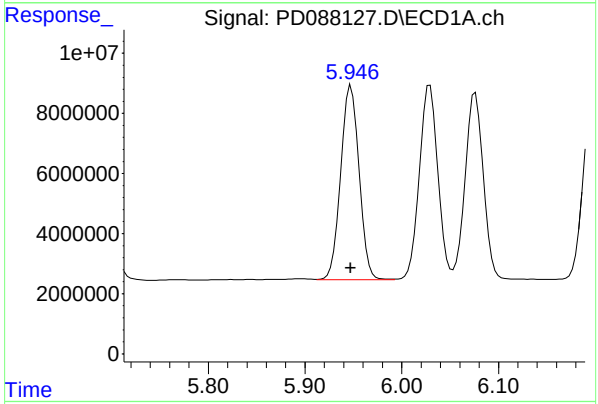
R.T.: 6.076 min
Delta R.T.: 0.000 min
Response: 80453509
Conc: 24.35 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC025



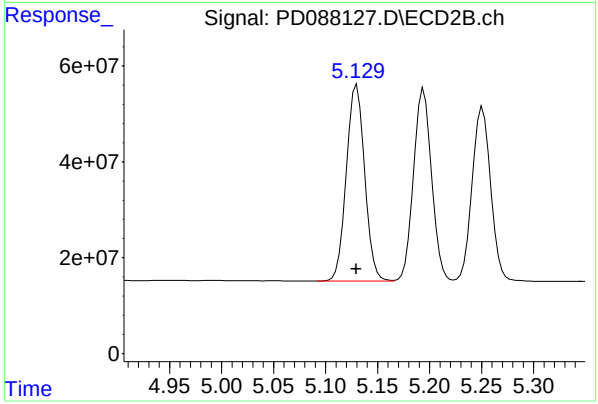
#9 Endosulfan I

R.T.: 5.251 min
Delta R.T.: 0.000 min
Response: 451585894
Conc: 26.18 ng/ml



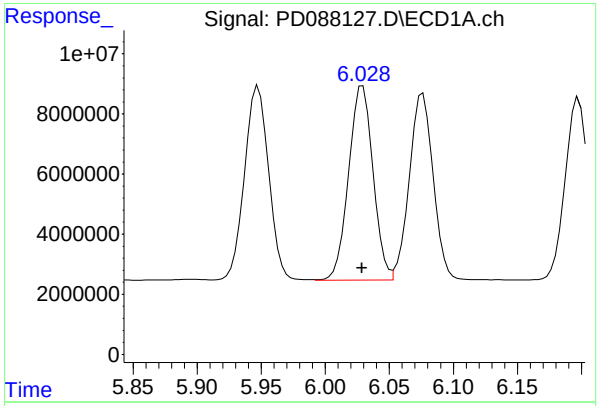
#10 gamma-Chlordane

R.T.: 5.948 min
Delta R.T.: 0.000 min
Response: 85075416
Conc: 24.06 ng/ml



#10 gamma-Chlordane

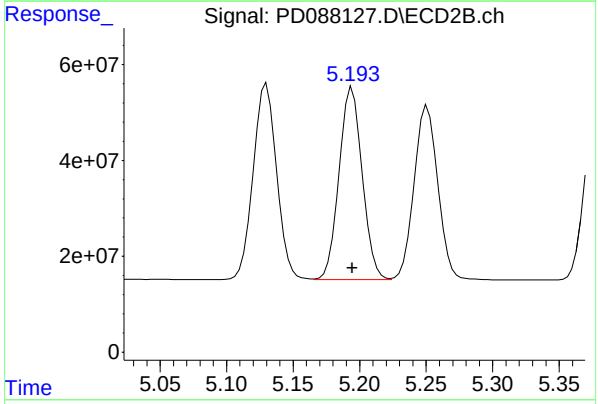
R.T.: 5.130 min
Delta R.T.: 0.000 min
Response: 502169233
Conc: 25.84 ng/ml



#11 alpha-Chlordane

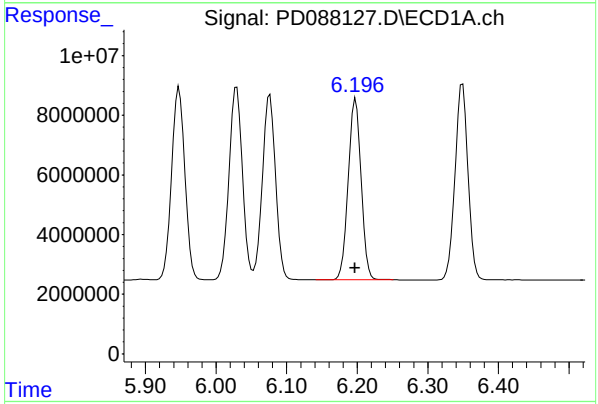
R.T.: 6.029 min
Delta R.T.: 0.000 min
Response: 85660342
Conc: 24.27 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC025



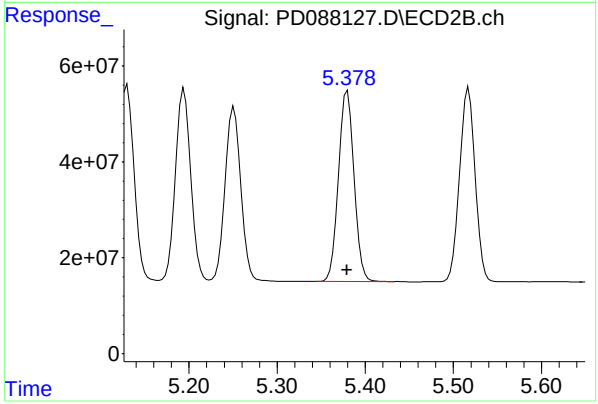
#11 alpha-Chlordane

R.T.: 5.194 min
Delta R.T.: 0.000 min
Response: 486399177
Conc: 25.93 ng/ml



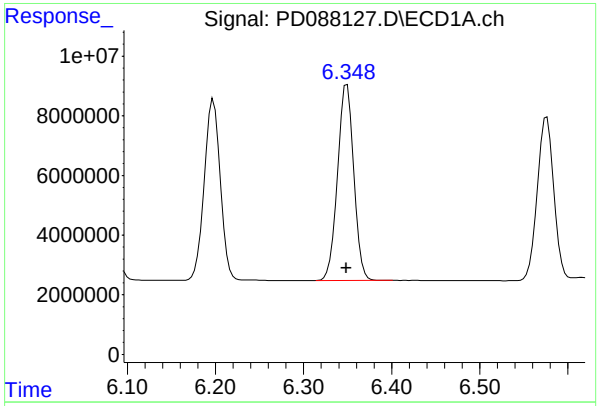
#12 4,4'-DDE

R.T.: 6.198 min
Delta R.T.: 0.000 min
Response: 76777577
Conc: 23.70 ng/ml



#12 4,4'-DDE

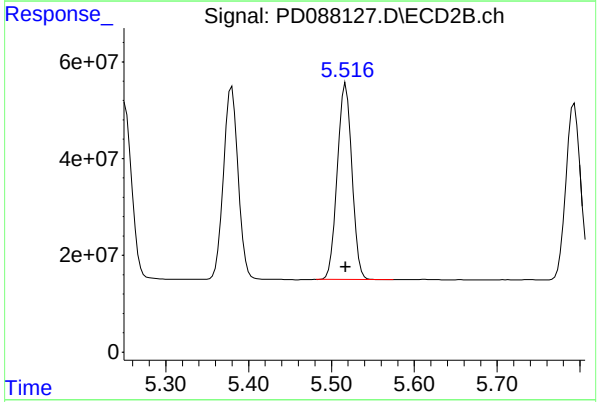
R.T.: 5.380 min
Delta R.T.: 0.000 min
Response: 489545151
Conc: 25.94 ng/ml



#13 Dieldrin

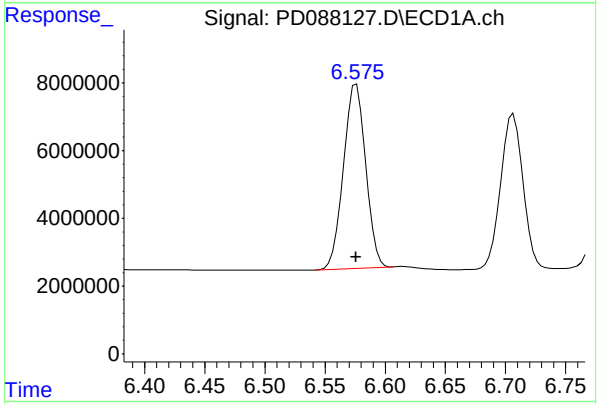
R.T.: 6.349 min
Delta R.T.: 0.000 min
Response: 84286018
Conc: 23.87 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC025



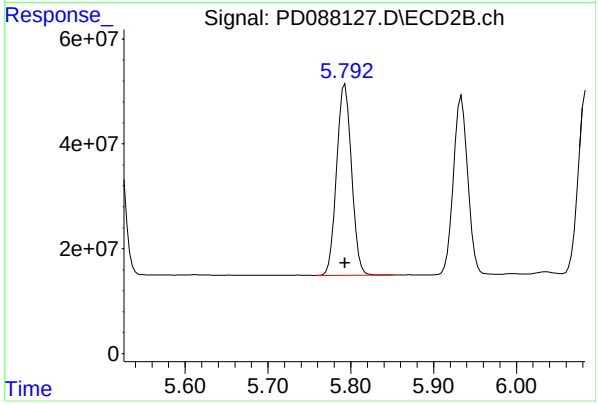
#13 Dieldrin

R.T.: 5.517 min
Delta R.T.: 0.000 min
Response: 497161030
Conc: 25.97 ng/ml



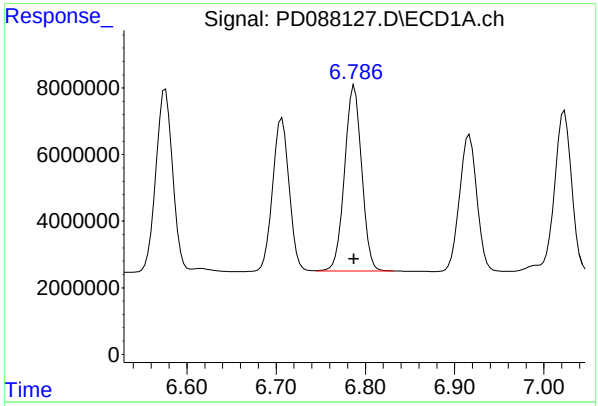
#14 Endrin

R.T.: 6.576 min
Delta R.T.: 0.000 min
Response: 70161483
Conc: 23.90 ng/ml



#14 Endrin

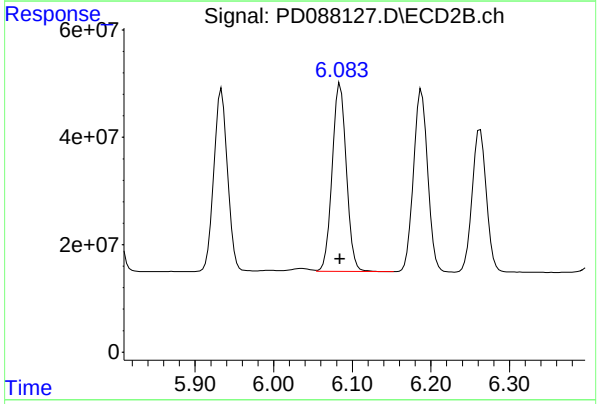
R.T.: 5.793 min
Delta R.T.: 0.000 min
Response: 455388285
Conc: 26.08 ng/ml



#15 Endosulfan II

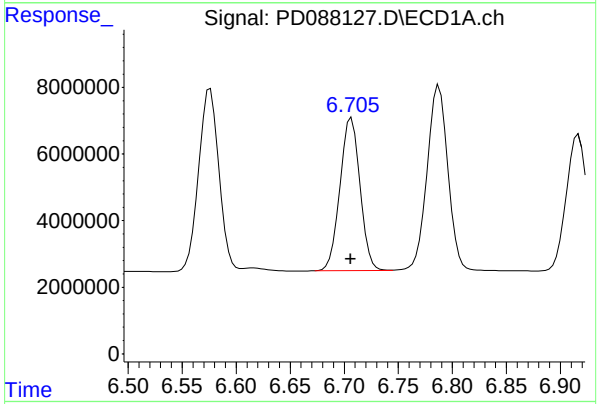
R.T.: 6.788 min
Delta R.T.: 0.000 min
Response: 74367338
Conc: 24.73 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC025



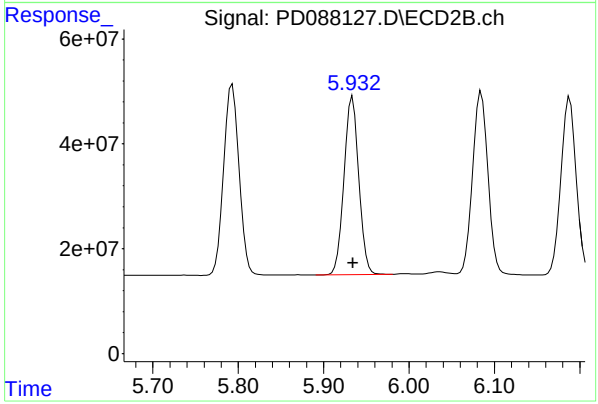
#15 Endosulfan II

R.T.: 6.085 min
Delta R.T.: 0.000 min
Response: 438294210
Conc: 26.19 ng/ml



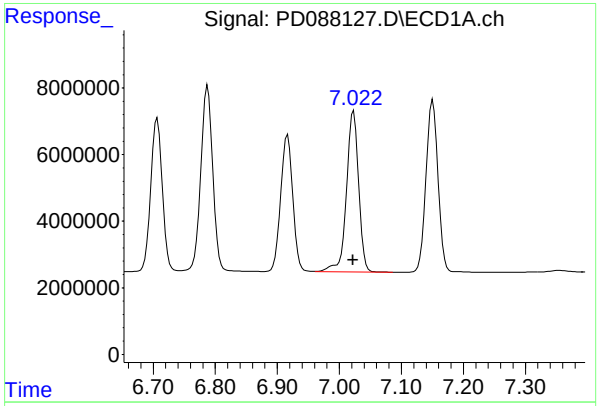
#16 4,4'-DDD

R.T.: 6.707 min
Delta R.T.: 0.000 min
Response: 59400090
Conc: 23.81 ng/ml



#16 4,4'-DDD

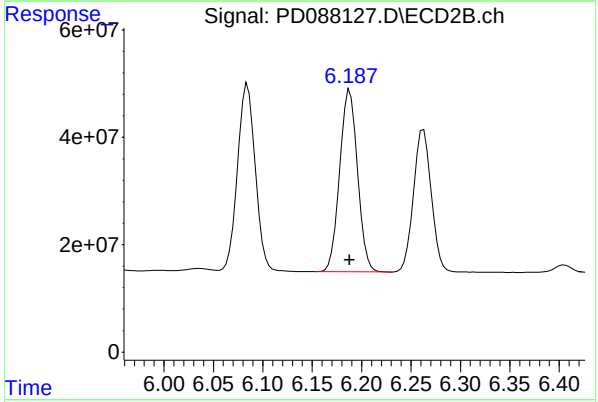
R.T.: 5.934 min
Delta R.T.: 0.000 min
Response: 409023999
Conc: 25.90 ng/ml



#17 4,4'-DDT

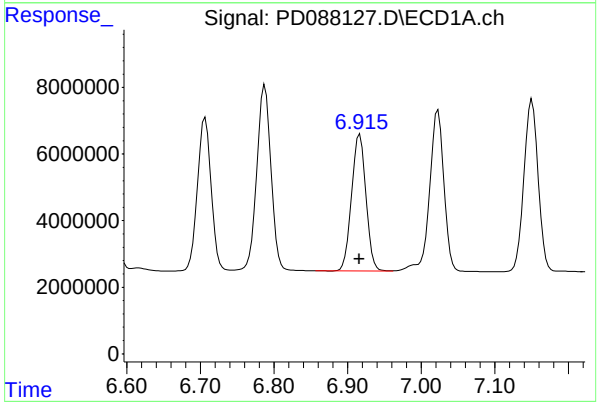
R.T.: 7.023 min
Delta R.T.: 0.001 min
Response: 65746503
Conc: 23.86 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC025



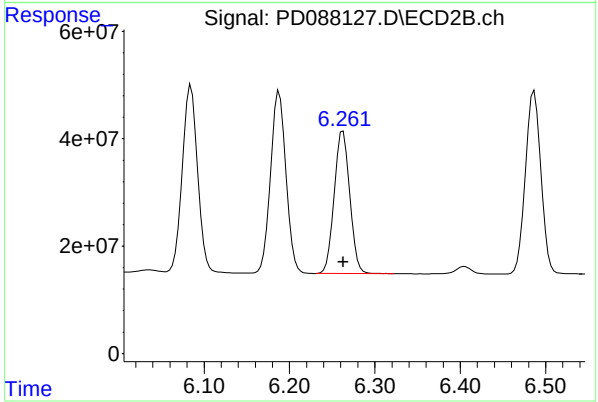
#17 4,4'-DDT

R.T.: 6.188 min
Delta R.T.: 0.000 min
Response: 426594873
Conc: 25.47 ng/ml



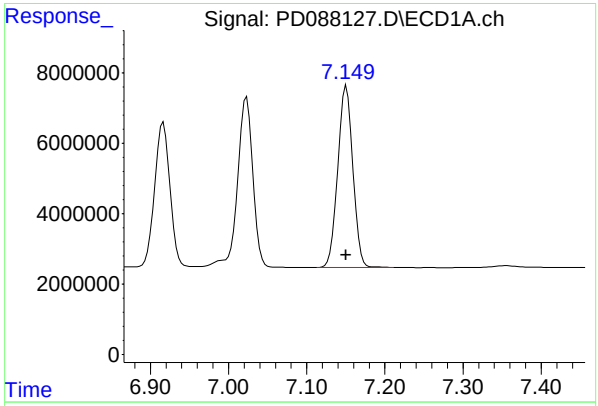
#18 Endrin aldehyde

R.T.: 6.917 min
Delta R.T.: 0.000 min
Response: 55861887
Conc: 24.86 ng/ml



#18 Endrin aldehyde

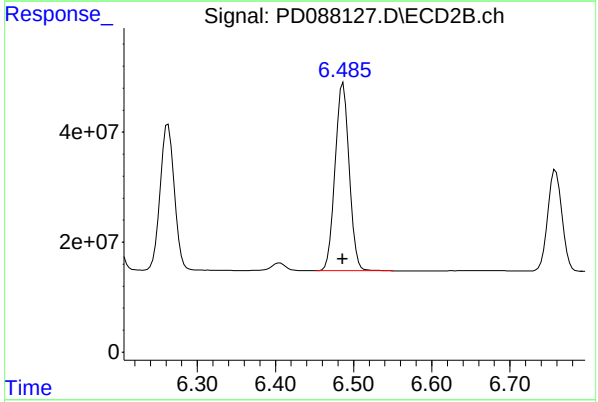
R.T.: 6.263 min
Delta R.T.: 0.000 min
Response: 333705636
Conc: 26.26 ng/ml



#19 Endosulfan Sulfate

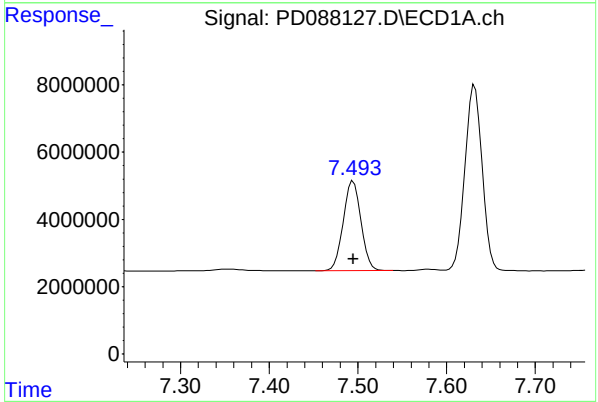
R.T.: 7.151 min
Delta R.T.: 0.000 min
Response: 69350501
Conc: 24.70 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC025



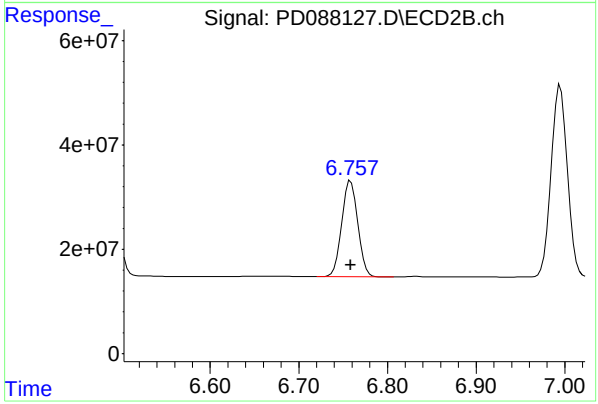
#19 Endosulfan Sulfate

R.T.: 6.487 min
Delta R.T.: 0.000 min
Response: 430008369
Conc: 26.19 ng/ml



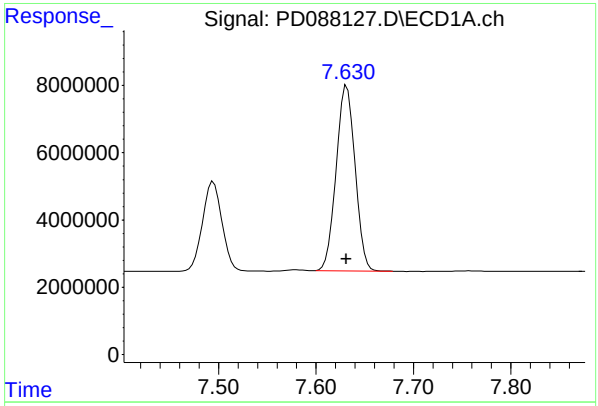
#20 Methoxychlor

R.T.: 7.495 min
Delta R.T.: 0.000 min
Response: 37082247
Conc: 25.26 ng/ml



#20 Methoxychlor

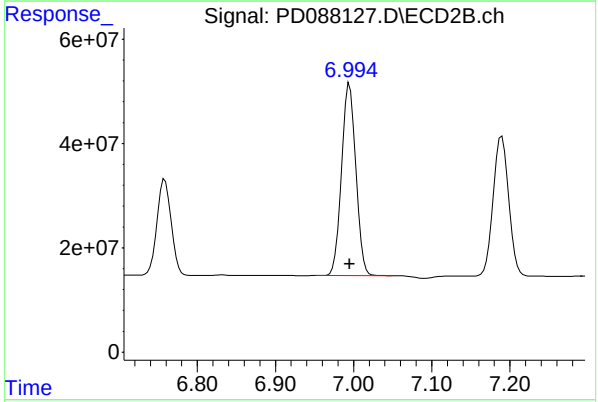
R.T.: 6.759 min
Delta R.T.: 0.000 min
Response: 232262296
Conc: 26.28 ng/ml



#21 Endrin ketone

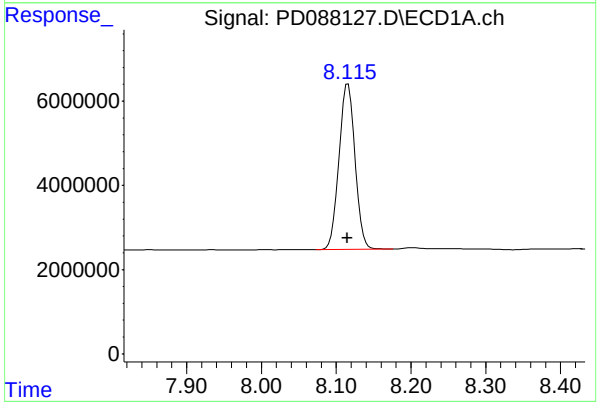
R.T.: 7.632 min
Delta R.T.: 0.000 min
Response: 74459471
Conc: 24.51 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC025



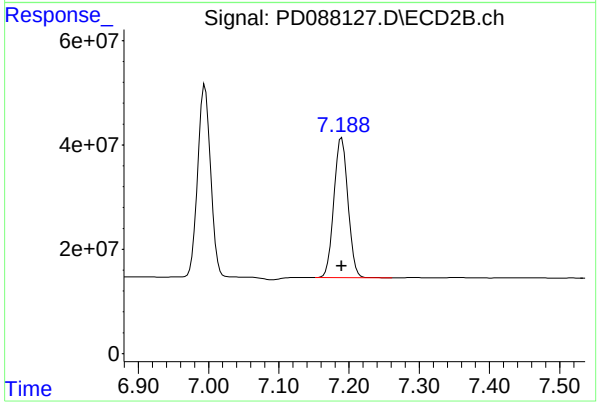
#21 Endrin ketone

R.T.: 6.995 min
Delta R.T.: 0.000 min
Response: 469504985
Conc: 26.22 ng/ml



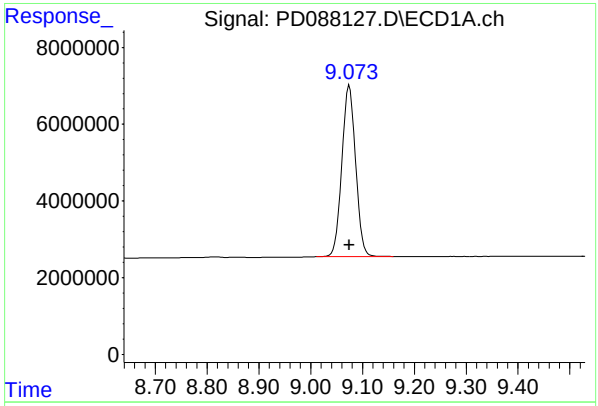
#22 Mirex

R.T.: 8.116 min
Delta R.T.: 0.000 min
Response: 58667661
Conc: 26.08 ng/ml



#22 Mirex

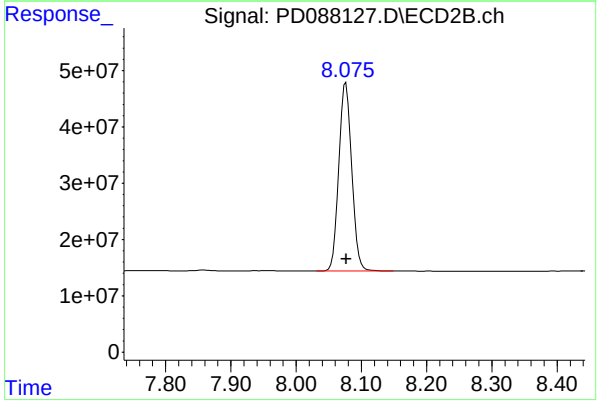
R.T.: 7.190 min
Delta R.T.: 0.000 min
Response: 372555507
Conc: 26.57 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.075 min
Delta R.T.: 0.000 min
Response: 82258935
Conc: 25.88 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC025



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 459690801
Conc: 26.31 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088128.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 14:51
Operator : AR\AJ
Sample : PSTDICC005
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC005

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/19/2025
Supervised By :mohammad ahmed 04/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 03:53:24 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 03:51:59 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.552	2.883	10677571	86225193	5.508	6.154
28)	SA Decachlor...	9.075	8.076	19250443	113.4E6	6.057	6.490
	Target Compounds						
2)	A alpha-BHC	4.001	3.396	19344032	129.8E6	4.456	5.874 #
3)	MA gamma-BHC...	4.332	3.733	20113508	128.2E6	4.841	6.234 #
4)	MA Heptachlor	4.931	4.086	20057945	126.6E6	5.042	6.169
5)	MB Aldrin	5.273	4.372	19278191	121.3E6	4.928	6.063
6)	B beta-BHC	4.516	4.028	8800396	55407278	5.573	6.262
7)	B delta-BHC	4.764	4.265	19851779	122.2E6	4.871m	5.967
8)	B Heptachlo...	5.693	4.876	18623118	112.9E6	5.342	6.244
9)	A Endosulfan I	6.076	5.251	17577772	107.8E6	5.320	6.253
10)	B gamma-Chl...	5.948	5.130	18576714	119.7E6	5.253	6.157
11)	B alpha-Chl...	6.029	5.194	18782686	116.3E6	5.322	6.201
12)	B 4,4'-DDE	6.197	5.379	15929607	115.5E6	4.916	6.117
13)	MA Dieldrin	6.349	5.517	17671896	116.9E6	5.006	6.106
14)	MA Endrin	6.576	5.793	14827210	107.9E6	5.051	6.177
15)	B Endosulfa...	6.787	6.084	17419714	105.5E6	5.792	6.301
16)	A 4,4'-DDD	6.706	5.933	12295875	96096151	4.928	6.085
17)	MA 4,4'-DDT	7.022	6.188	13556042	91724476	4.921	5.478
18)	B Endrin al...	6.916	6.262	12478868	80534454	5.554	6.338
19)	B Endosulfa...	7.151	6.486	15272374	102.6E6	5.440	6.248
20)	A Methoxychlor	7.495	6.758	8094629	53678604	5.515	6.073
21)	B Endrin ke...	7.631	6.995	16074498	112.9E6	5.292	6.304
22)	Mirex	8.116	7.189	13799458	91589011	6.134	6.532

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

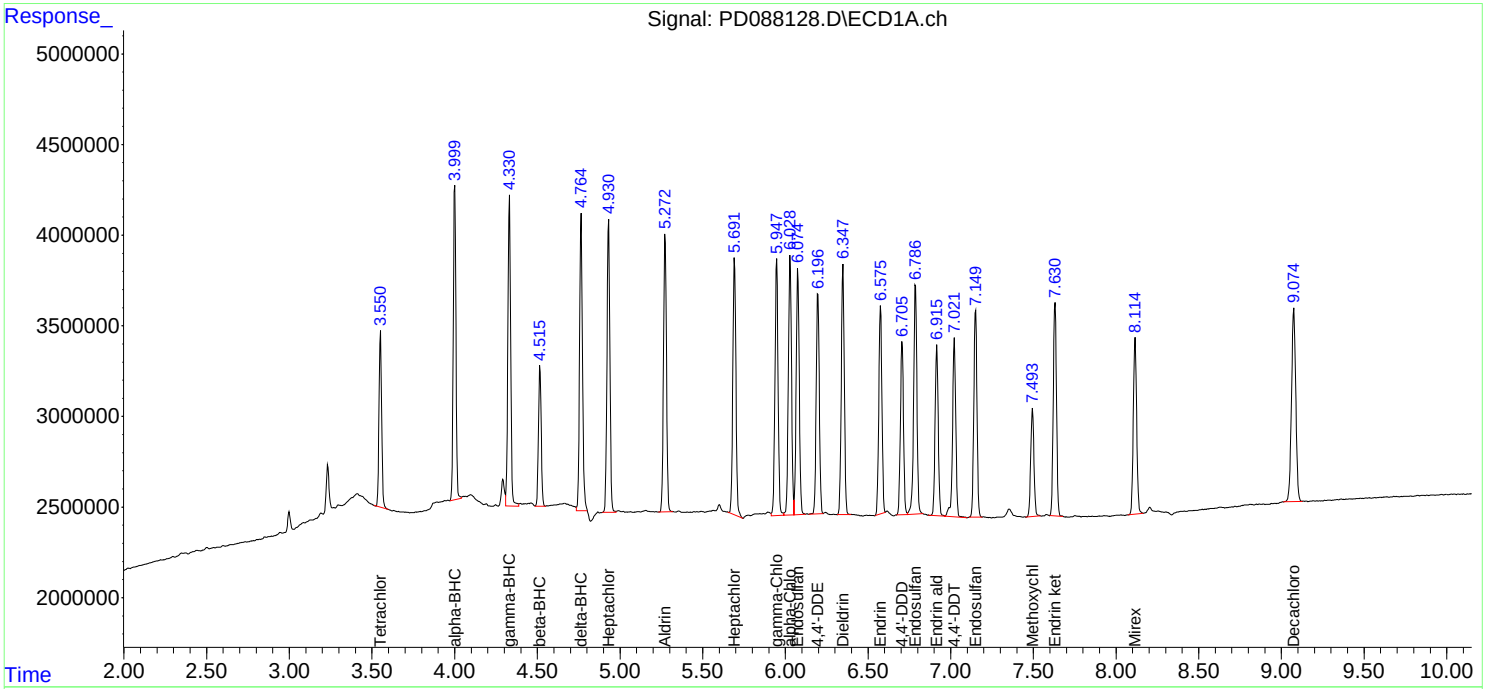
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088128.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 14:51
Operator : AR\AJ
Sample : PSTDICC005
Misc :
ALS Vial : 9 Sample Multiplier: 1

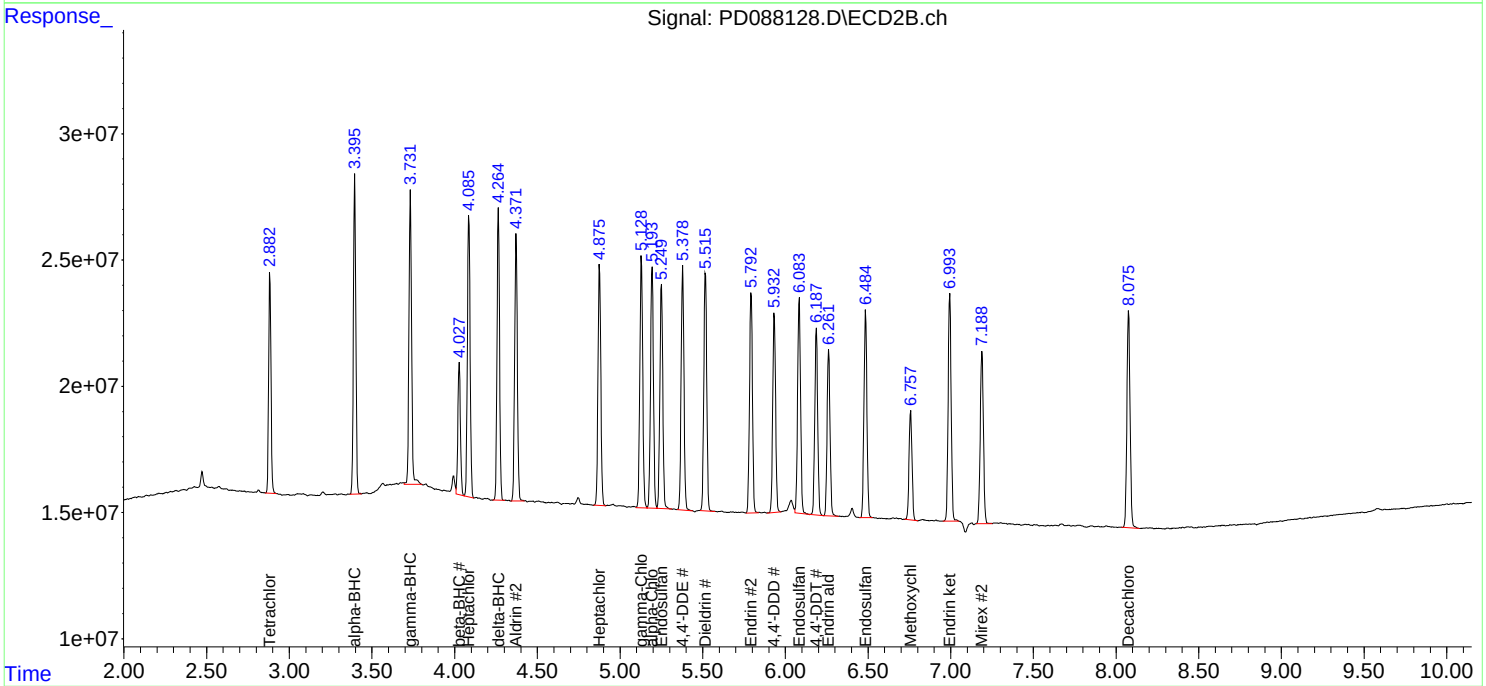
Instrument :
ECD_D
ClientSampleId :
PSTDICC005

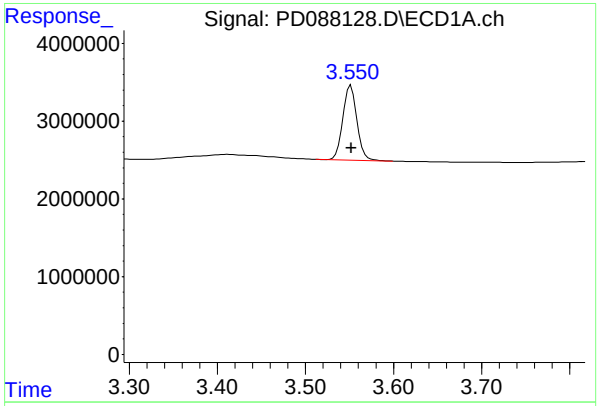
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/19/2025
Supervised By :mohammad ahmed 04/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 03:53:24 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 03:51:59 2025
Response via : Initial Calibration
Integrator: ChemStation

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







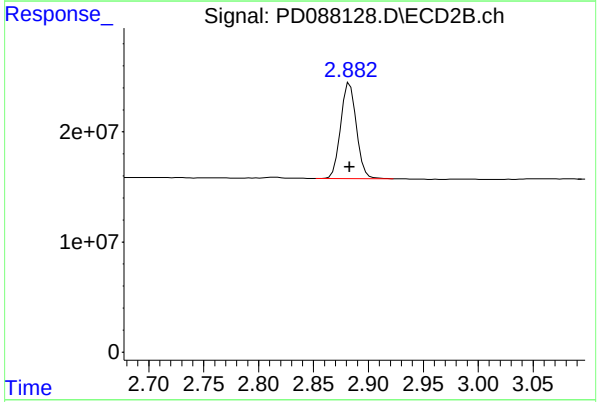
#1 Tetrachloro-m-xylene

R.T.: 3.552 min
Delta R.T.: 0.000 min
Response: 10677571
Conc: 5.51 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005

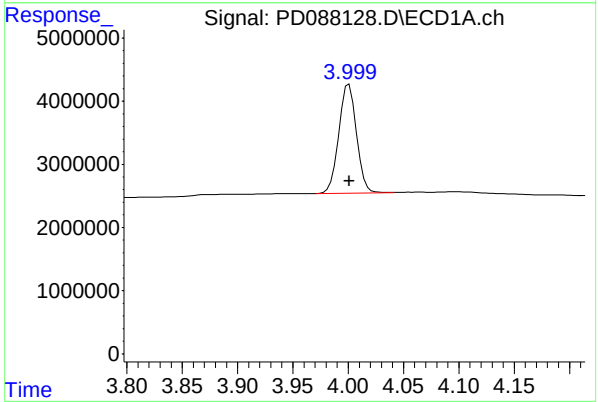
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/19/2025
Supervised By :mohammad ahmed 04/22/2025



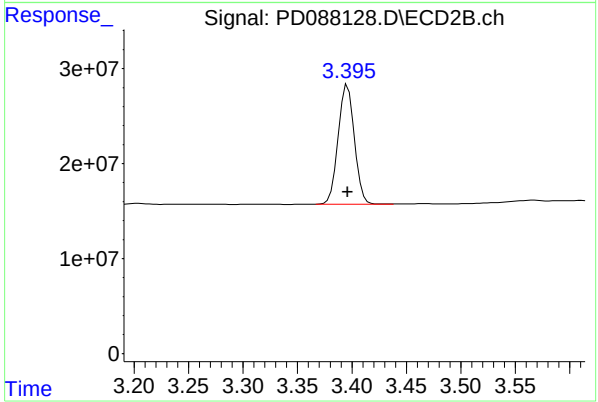
#1 Tetrachloro-m-xylene

R.T.: 2.883 min
Delta R.T.: 0.000 min
Response: 86225193
Conc: 6.15 ng/ml



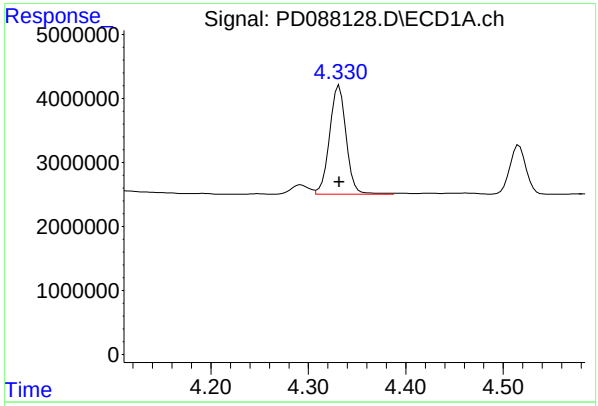
#2 alpha-BHC

R.T.: 4.001 min
Delta R.T.: 0.000 min
Response: 19344032
Conc: 4.46 ng/ml



#2 alpha-BHC

R.T.: 3.396 min
Delta R.T.: 0.000 min
Response: 129769941
Conc: 5.87 ng/ml



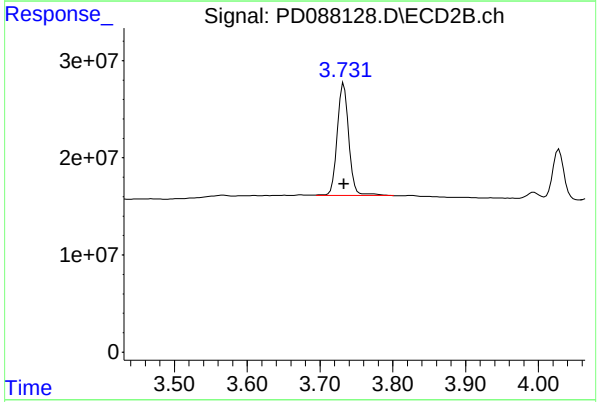
#3 gamma-BHC (Lindane)

R.T.: 4.332 min
Delta R.T.: 0.000 min
Response: 20113508
Conc: 4.84 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005

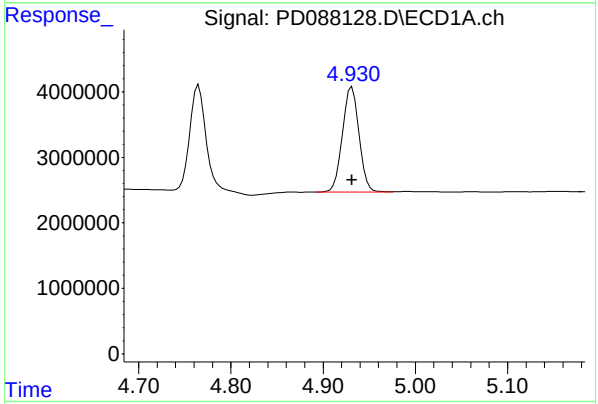
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/19/2025
Supervised By :mohammad ahmed 04/22/2025



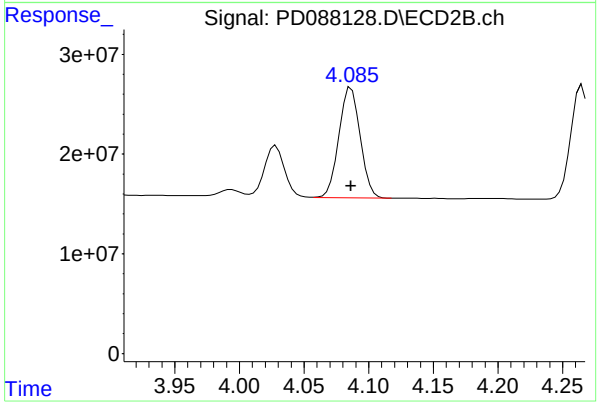
#3 gamma-BHC (Lindane)

R.T.: 3.733 min
Delta R.T.: 0.000 min
Response: 128151787
Conc: 6.23 ng/ml



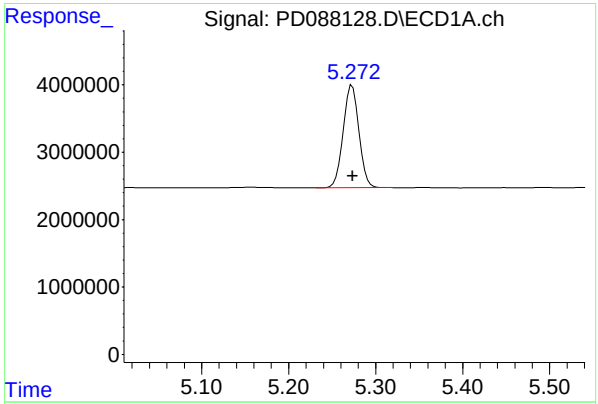
#4 Heptachlor

R.T.: 4.931 min
Delta R.T.: 0.000 min
Response: 20057945
Conc: 5.04 ng/ml



#4 Heptachlor

R.T.: 4.086 min
Delta R.T.: 0.000 min
Response: 126603704
Conc: 6.17 ng/ml



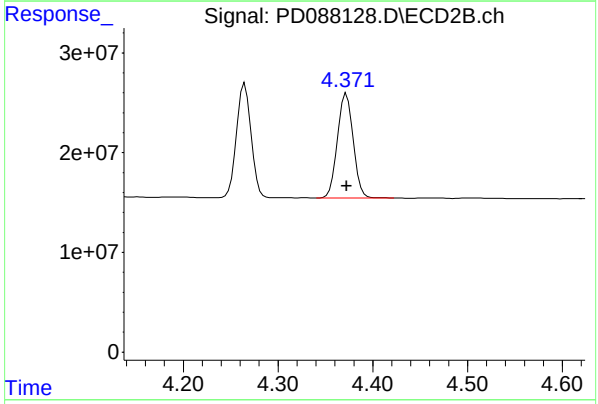
#5 Aldrin

R.T.: 5.273 min
Delta R.T.: 0.000 min
Response: 19278191
Conc: 4.93 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005

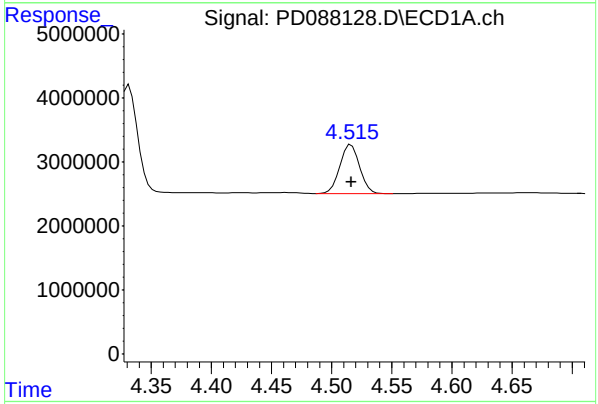
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/19/2025
Supervised By :mohammad ahmed 04/22/2025



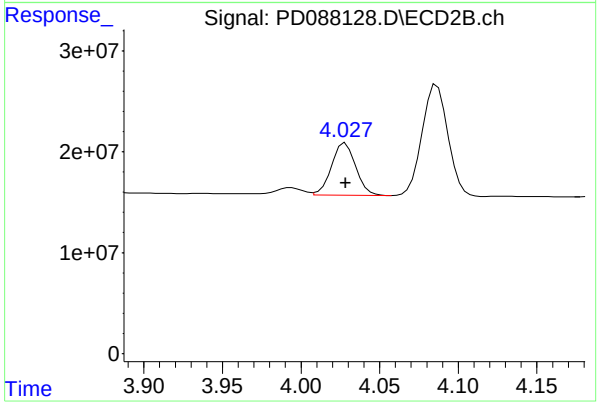
#5 Aldrin

R.T.: 4.372 min
Delta R.T.: 0.000 min
Response: 121269873
Conc: 6.06 ng/ml



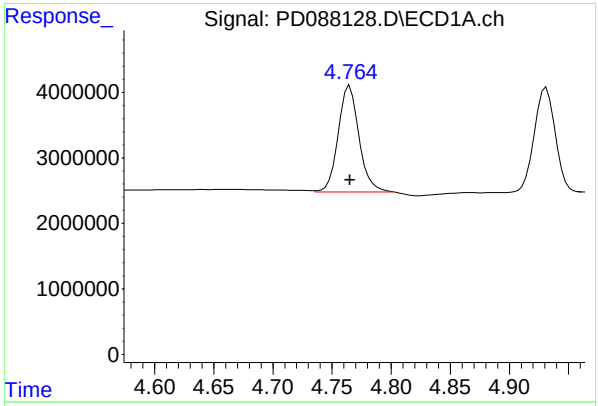
#6 beta-BHC

R.T.: 4.516 min
Delta R.T.: 0.000 min
Response: 8800396
Conc: 5.57 ng/ml



#6 beta-BHC

R.T.: 4.028 min
Delta R.T.: 0.000 min
Response: 55407278
Conc: 6.26 ng/ml



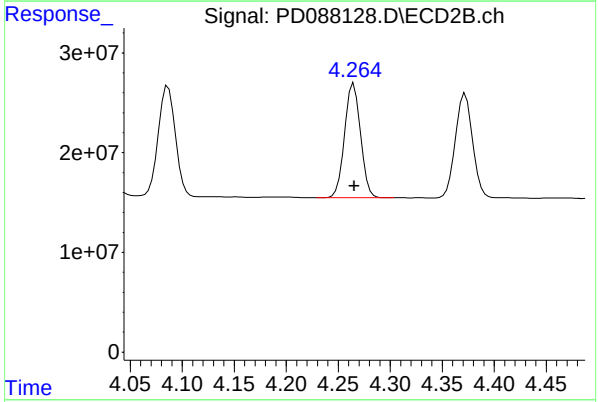
#7 delta-BHC

R.T.: 4.764 min
Delta R.T.: -0.001 min
Response: 19851779
Conc: 4.87 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005

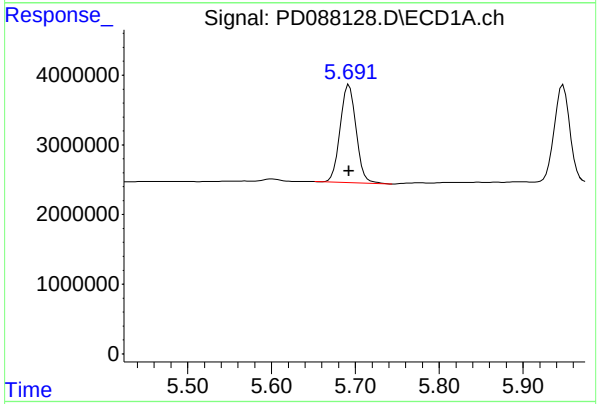
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/19/2025
Supervised By :mohammad ahmed 04/22/2025



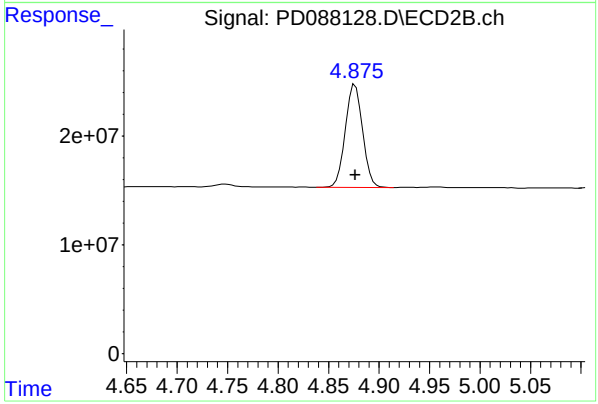
#7 delta-BHC

R.T.: 4.265 min
Delta R.T.: 0.000 min
Response: 122164045
Conc: 5.97 ng/ml



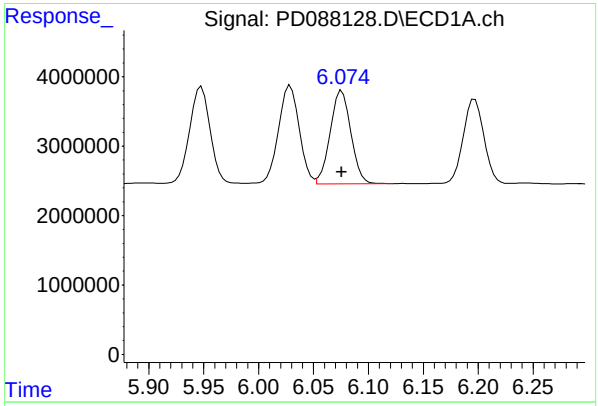
#8 Heptachlor epoxide

R.T.: 5.693 min
Delta R.T.: 0.000 min
Response: 18623118
Conc: 5.34 ng/ml



#8 Heptachlor epoxide

R.T.: 4.876 min
Delta R.T.: 0.000 min
Response: 112883463
Conc: 6.24 ng/ml



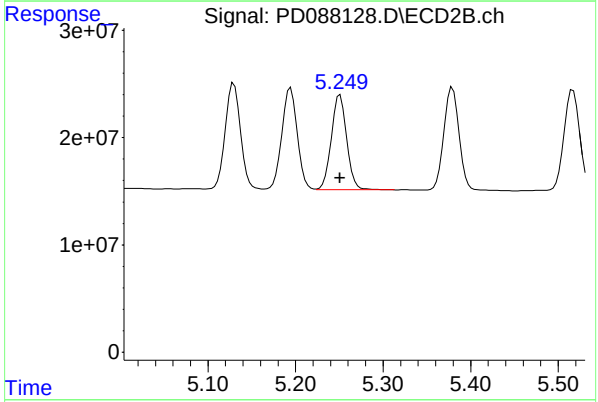
#9 Endosulfan I

R.T.: 6.076 min
Delta R.T.: 0.000 min
Response: 17577772
Conc: 5.32 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005

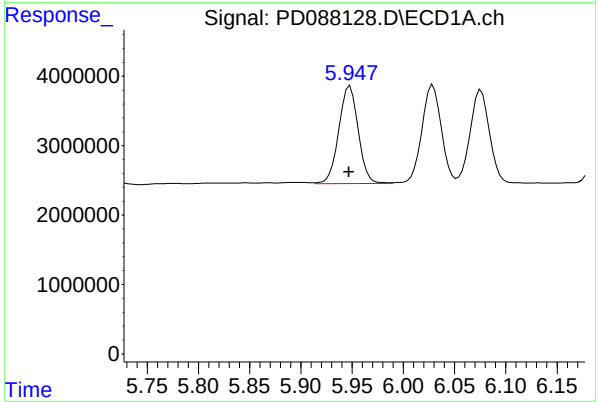
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/19/2025
Supervised By :mohammad ahmed 04/22/2025



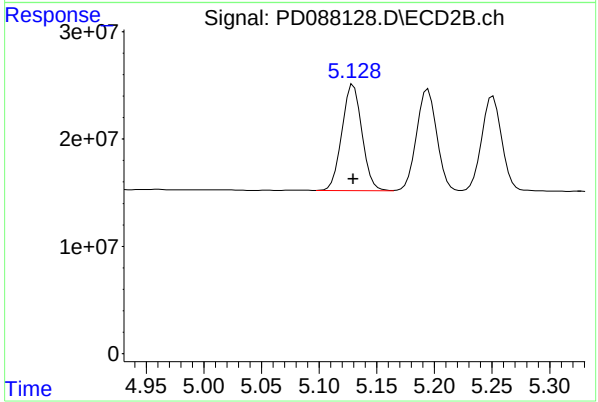
#9 Endosulfan I

R.T.: 5.251 min
Delta R.T.: 0.000 min
Response: 107849373
Conc: 6.25 ng/ml



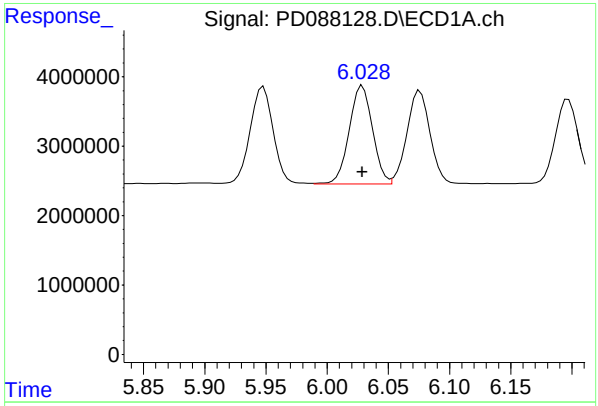
#10 gamma-Chlordane

R.T.: 5.948 min
Delta R.T.: 0.000 min
Response: 18576714
Conc: 5.25 ng/ml



#10 gamma-Chlordane

R.T.: 5.130 min
Delta R.T.: 0.000 min
Response: 119665494
Conc: 6.16 ng/ml



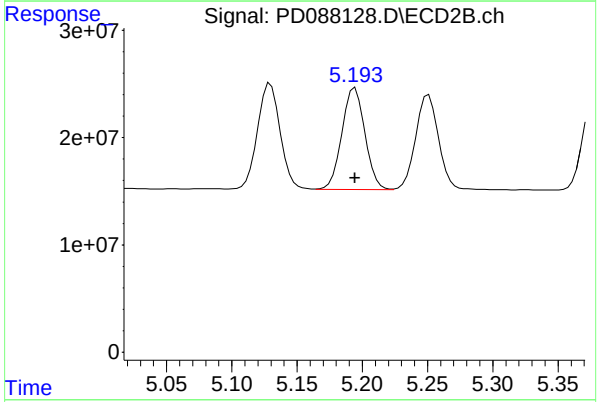
#11 alpha-Chlordane

R.T.: 6.029 min
Delta R.T.: 0.000 min
Response: 18782686
Conc: 5.32 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005

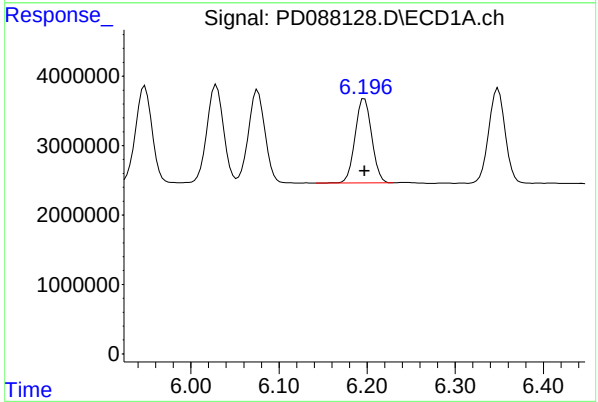
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/19/2025
Supervised By :mohammad ahmed 04/22/2025



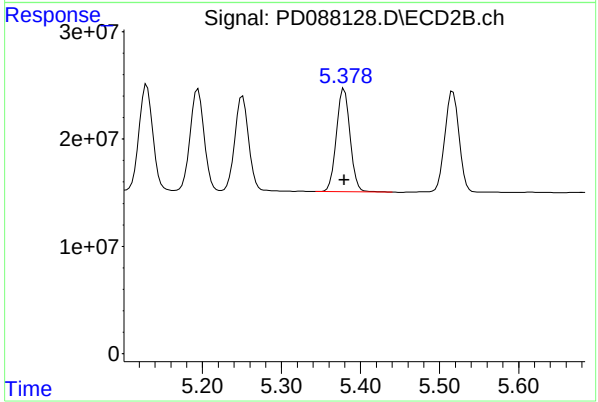
#11 alpha-Chlordane

R.T.: 5.194 min
Delta R.T.: 0.000 min
Response: 116305791
Conc: 6.20 ng/ml



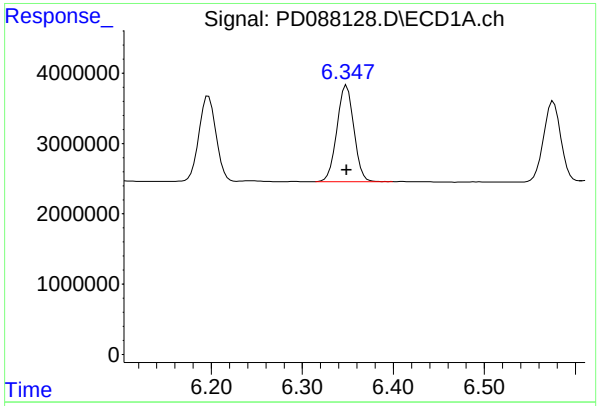
#12 4,4'-DDE

R.T.: 6.197 min
Delta R.T.: 0.000 min
Response: 15929607
Conc: 4.92 ng/ml



#12 4,4'-DDE

R.T.: 5.379 min
Delta R.T.: 0.000 min
Response: 115450338
Conc: 6.12 ng/ml



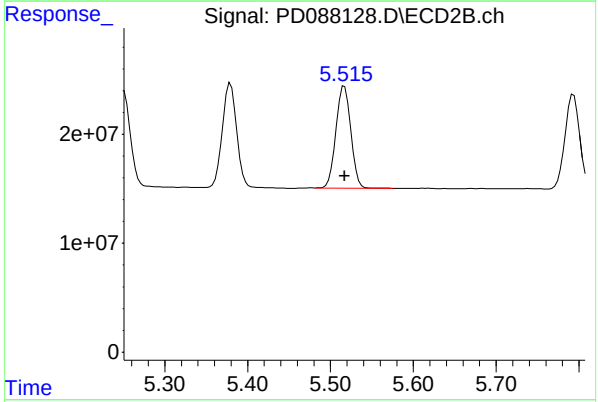
#13 Dieldrin

R.T.: 6.349 min
Delta R.T.: 0.000 min
Response: 17671896
Conc: 5.01 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005

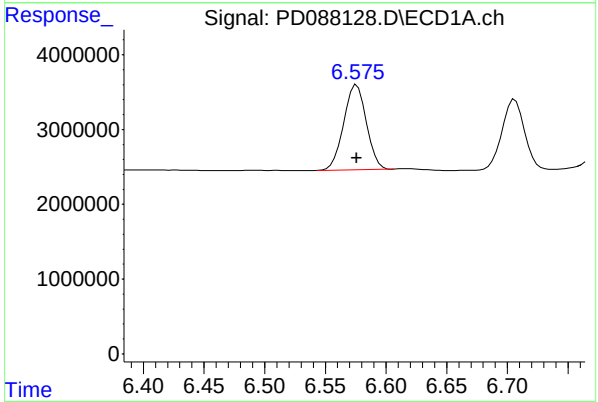
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/19/2025
Supervised By :mohammad ahmed 04/22/2025



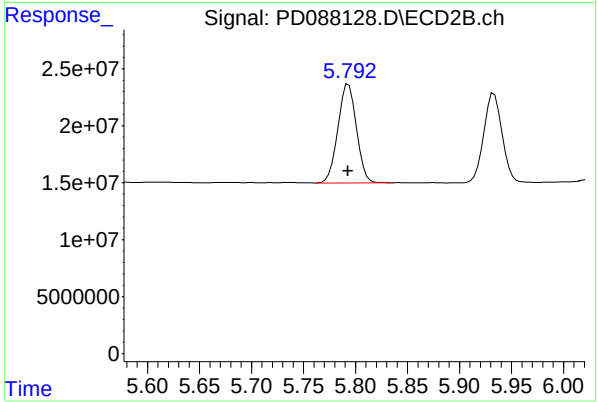
#13 Dieldrin

R.T.: 5.517 min
Delta R.T.: 0.000 min
Response: 116908075
Conc: 6.11 ng/ml



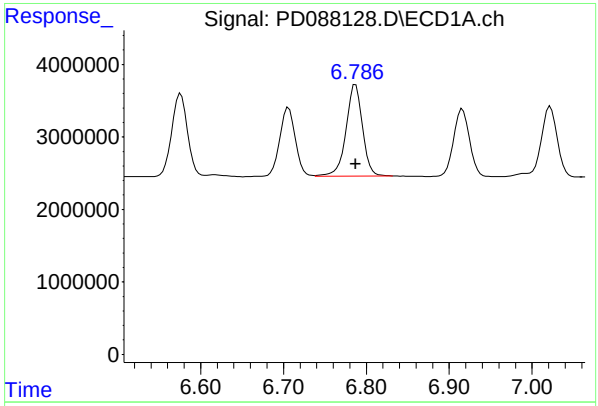
#14 Endrin

R.T.: 6.576 min
Delta R.T.: 0.000 min
Response: 14827210
Conc: 5.05 ng/ml



#14 Endrin

R.T.: 5.793 min
Delta R.T.: 0.000 min
Response: 107870360
Conc: 6.18 ng/ml



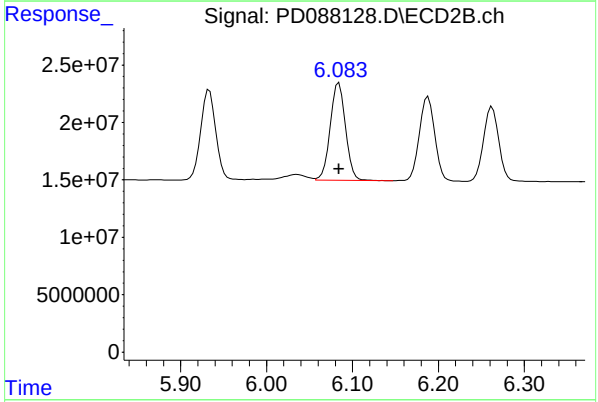
#15 Endosulfan II

R.T.: 6.787 min
Delta R.T.: 0.000 min
Response: 17419714
Conc: 5.79 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005

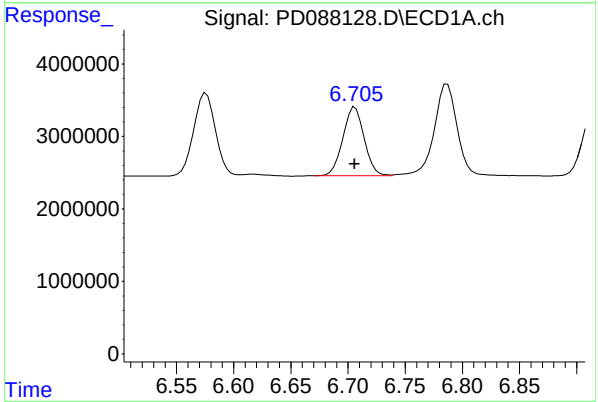
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/19/2025
Supervised By :mohammad ahmed 04/22/2025



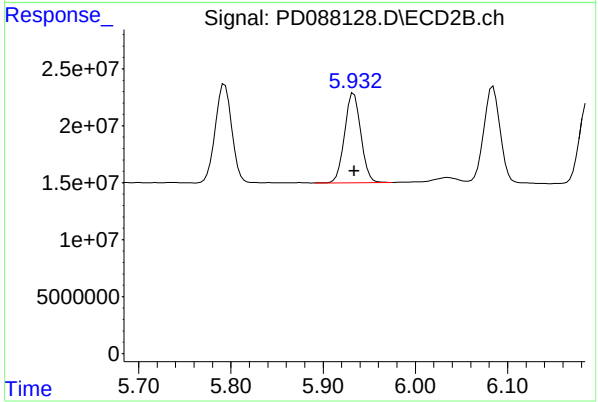
#15 Endosulfan II

R.T.: 6.084 min
Delta R.T.: 0.000 min
Response: 105459782
Conc: 6.30 ng/ml



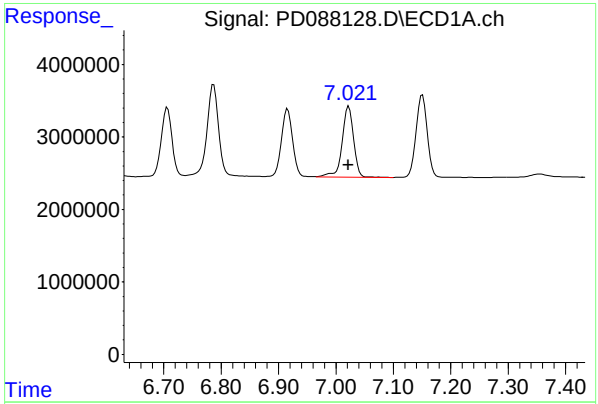
#16 4,4'-DDD

R.T.: 6.706 min
Delta R.T.: 0.000 min
Response: 12295875
Conc: 4.93 ng/ml



#16 4,4'-DDD

R.T.: 5.933 min
Delta R.T.: 0.000 min
Response: 96096151
Conc: 6.09 ng/ml



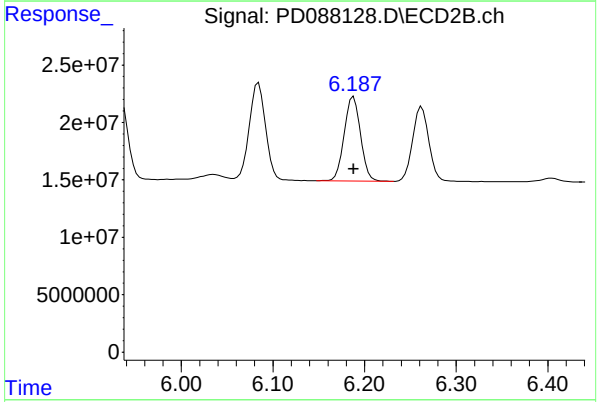
#17 4,4'-DDT

R.T.: 7.022 min
Delta R.T.: 0.000 min
Response: 13556042
Conc: 4.92 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005

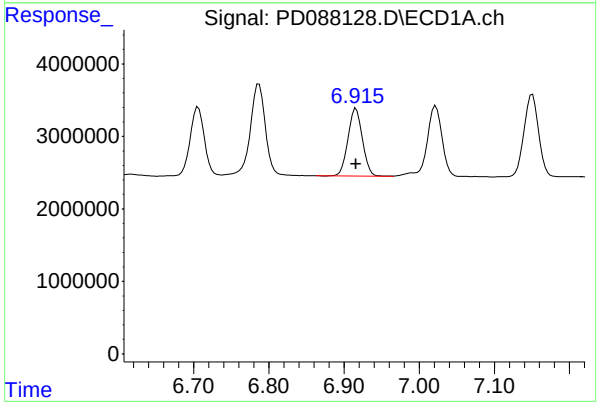
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/19/2025
Supervised By :mohammad ahmed 04/22/2025



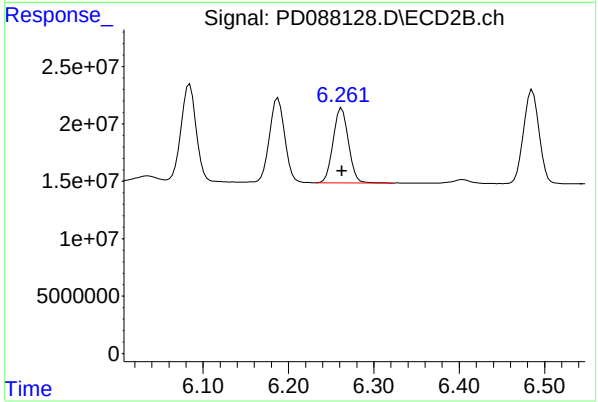
#17 4,4'-DDT

R.T.: 6.188 min
Delta R.T.: 0.000 min
Response: 91724476
Conc: 5.48 ng/ml



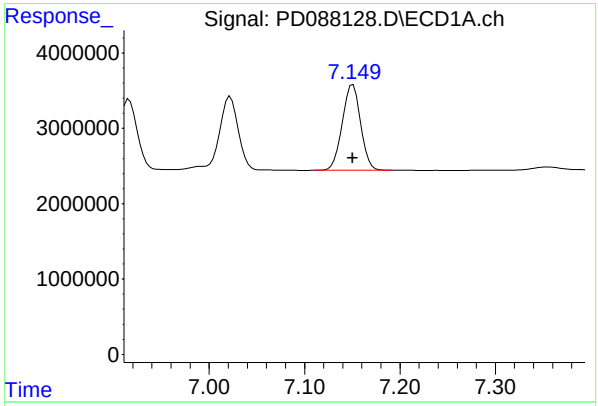
#18 Endrin aldehyde

R.T.: 6.916 min
Delta R.T.: 0.000 min
Response: 12478868
Conc: 5.55 ng/ml



#18 Endrin aldehyde

R.T.: 6.262 min
Delta R.T.: 0.000 min
Response: 80534454
Conc: 6.34 ng/ml



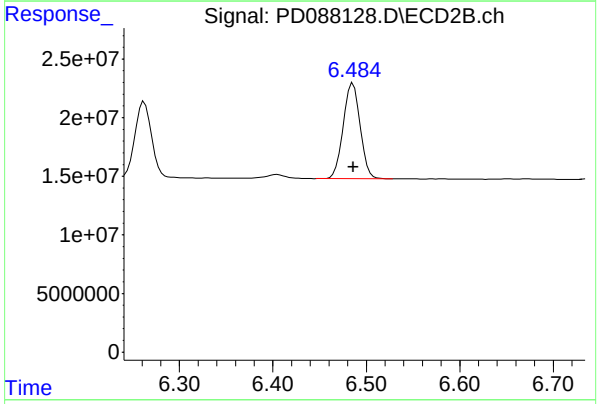
#19 Endosulfan Sulfate

R.T.: 7.151 min
Delta R.T.: 0.000 min
Response: 15272374
Conc: 5.44 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005

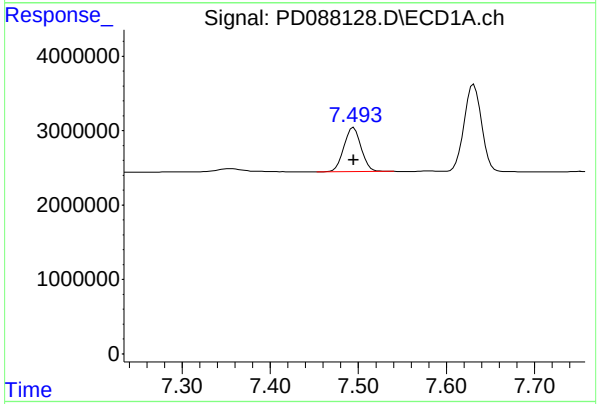
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/19/2025
Supervised By :mohammad ahmed 04/22/2025



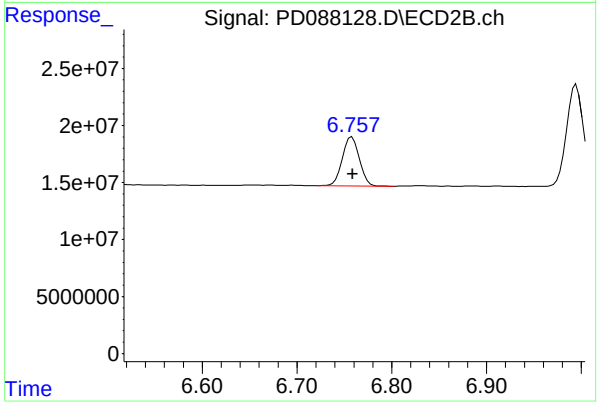
#19 Endosulfan Sulfate

R.T.: 6.486 min
Delta R.T.: 0.000 min
Response: 102582868
Conc: 6.25 ng/ml



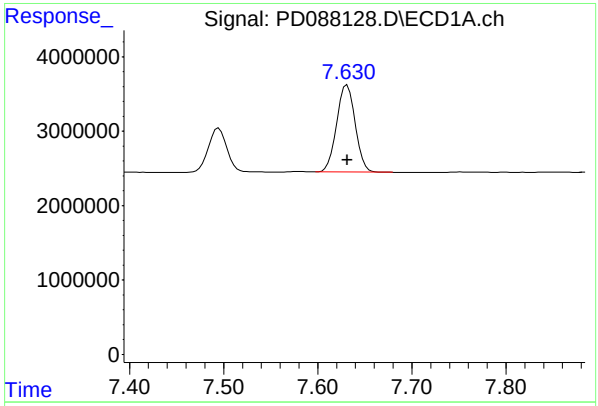
#20 Methoxychlor

R.T.: 7.495 min
Delta R.T.: 0.000 min
Response: 8094629
Conc: 5.51 ng/ml



#20 Methoxychlor

R.T.: 6.758 min
Delta R.T.: 0.000 min
Response: 53678604
Conc: 6.07 ng/ml



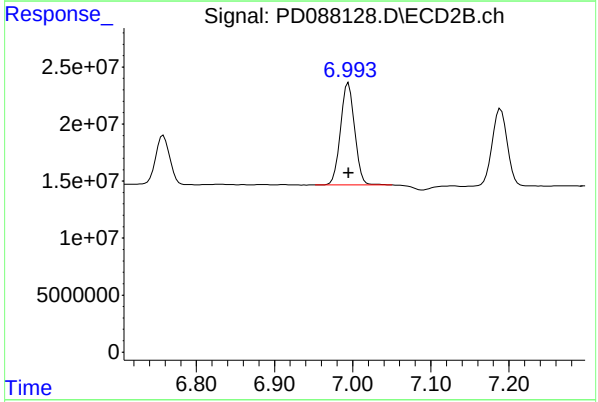
#21 Endrin ketone

R.T.: 7.631 min
Delta R.T.: 0.000 min
Response: 16074498
Conc: 5.29 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005

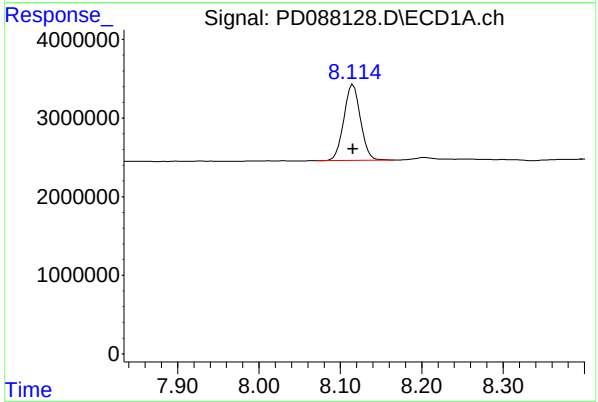
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/19/2025
Supervised By :mohammad ahmed 04/22/2025



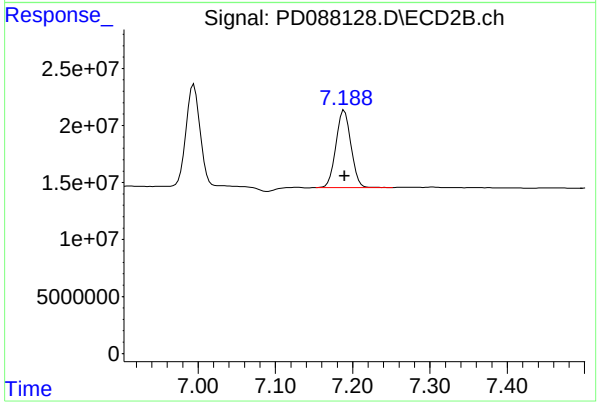
#21 Endrin ketone

R.T.: 6.995 min
Delta R.T.: 0.000 min
Response: 112866090
Conc: 6.30 ng/ml



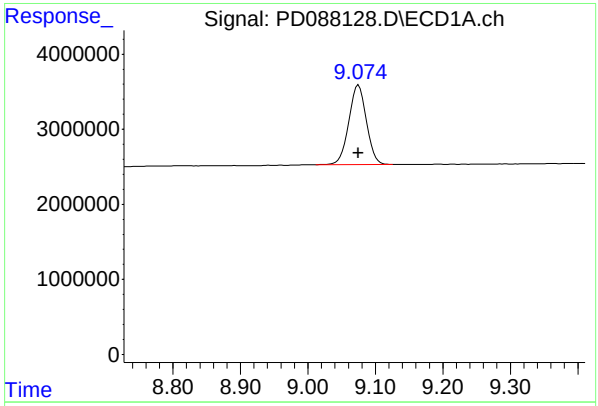
#22 Mirex

R.T.: 8.116 min
Delta R.T.: 0.000 min
Response: 13799458
Conc: 6.13 ng/ml



#22 Mirex

R.T.: 7.189 min
Delta R.T.: 0.000 min
Response: 91589011
Conc: 6.53 ng/ml



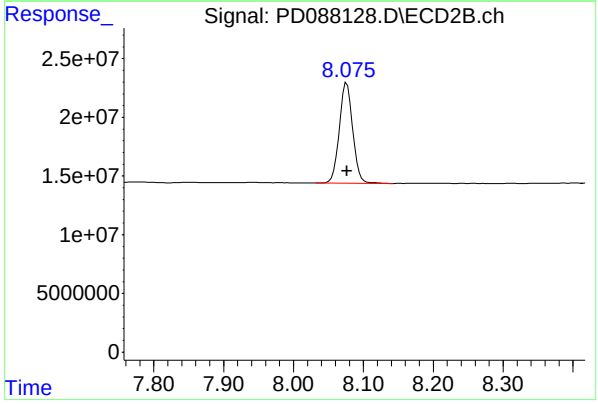
#28 Decachlorobiphenyl

R.T.: 9.075 min
Delta R.T.: 0.000 min
Response: 19250443
Conc: 6.06 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/19/2025
Supervised By :mohammad ahmed 04/22/2025



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 113373951
Conc: 6.49 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088131.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 15:32
Operator : AR\AJ
Sample : PCHLORICC500
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PCHLORICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 05:48:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 05:47:09 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1) SA	Tetrachlo...	3.552	2.883	96235160	865.8E6	50.000	50.000
28) SA	Decachlor...	9.074	8.077	154.6E6	878.3E6	50.000	50.000
	Target Compounds						
23)	Chlordane-1	4.717	3.909	80997430	383.8E6	500.000	500.000
24)	Chlordane-2	5.243	4.491	80390039	391.5E6	500.000	500.000
25)	Chlordane-3	5.948	5.130	333.1E6	1198.4E6	500.000	500.000
26)	Chlordane-4	6.034	5.194	398.6E6	1015.9E6	500.000	500.000
27)	Chlordane-5	6.873	6.094	66525644	465.8E6	500.000	500.000

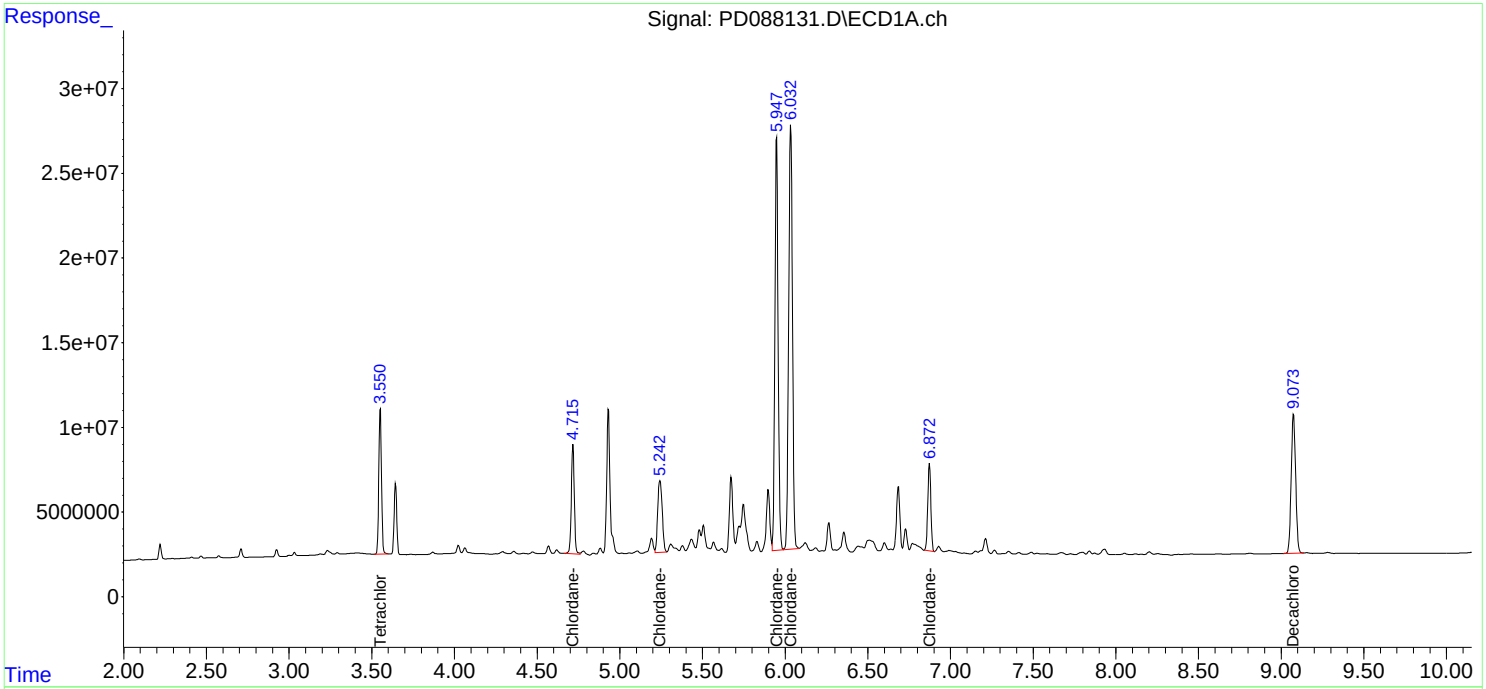
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

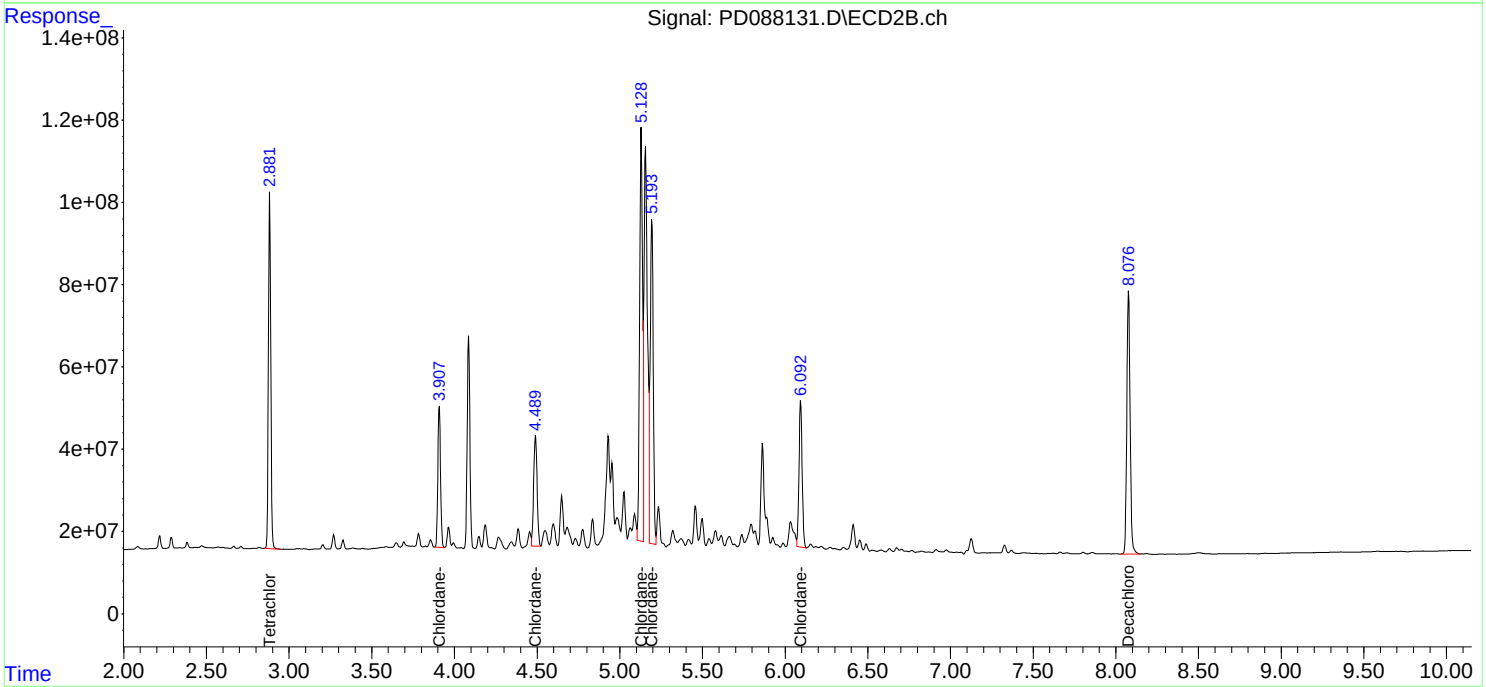
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088131.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 15:32
Operator : AR\AJ
Sample : PCHLORICC500
Misc :
ALS Vial : 12 Sample Multiplier: 1

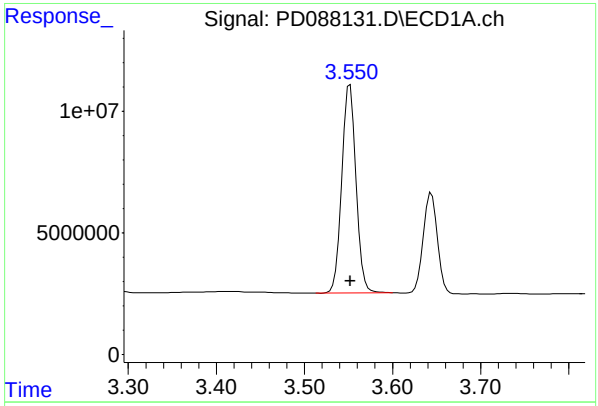
Instrument :
ECD_D
ClientSampleId :
PCHLORICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 05:48:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 05:47:09 2025
Response via : Initial Calibration
Integrator: ChemStation

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



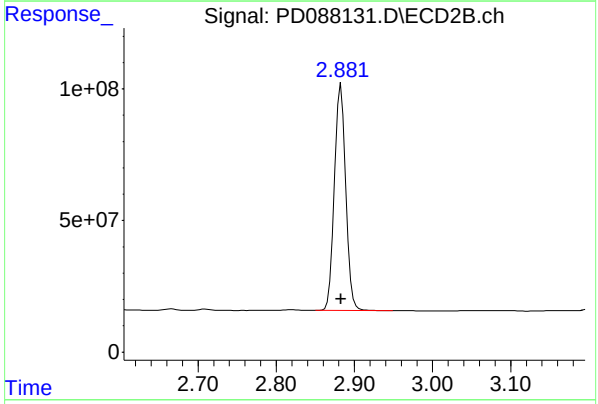




#1 Tetrachloro-m-xylene

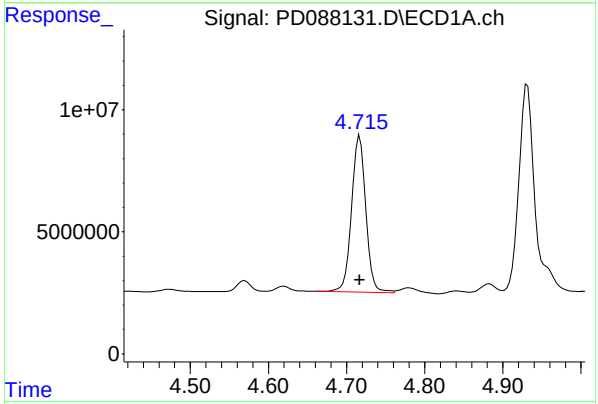
R.T.: 3.552 min
Delta R.T.: 0.000 min
Response: 96235160
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PCHLORICC500



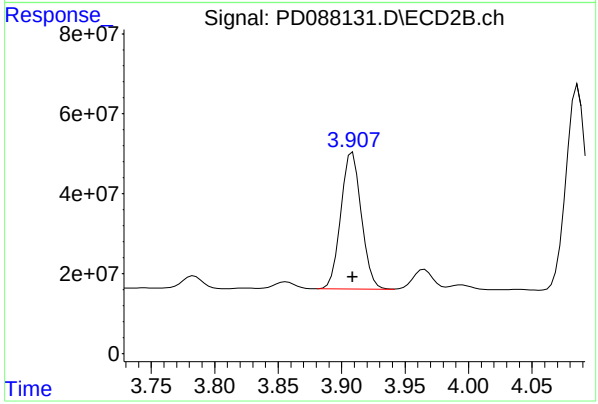
#1 Tetrachloro-m-xylene

R.T.: 2.883 min
Delta R.T.: 0.000 min
Response: 865793333
Conc: 50.00 ng/ml



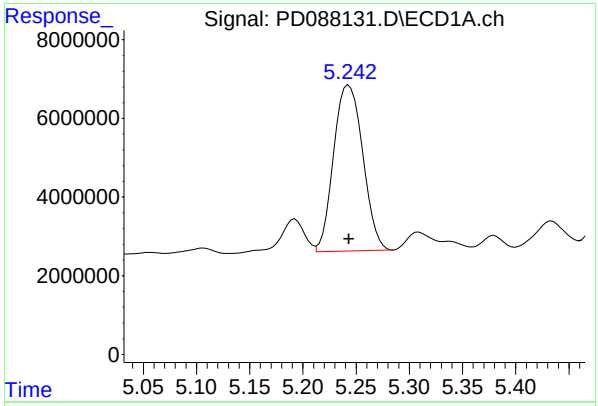
#23 Chlordane-1

R.T.: 4.717 min
Delta R.T.: 0.000 min
Response: 80997430
Conc: 500.00 ng/ml



#23 Chlordane-1

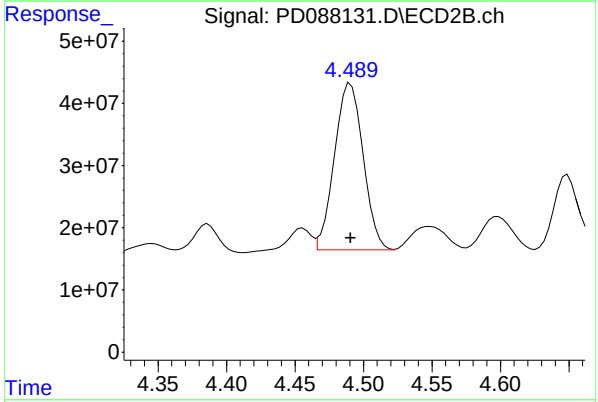
R.T.: 3.909 min
Delta R.T.: 0.000 min
Response: 383763688
Conc: 500.00 ng/ml



#24 Chlordane-2

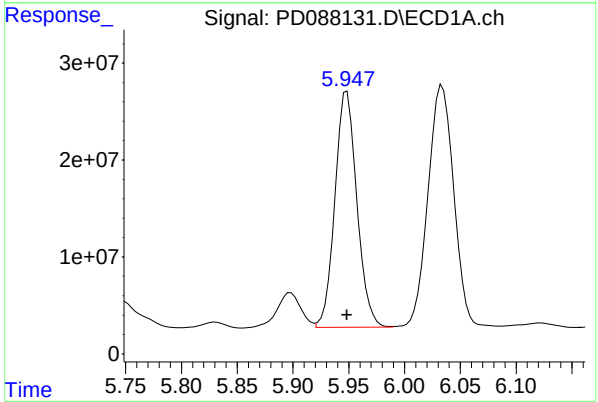
R.T.: 5.243 min
Delta R.T.: 0.000 min
Response: 80390039
Conc: 500.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PCHLORICC500



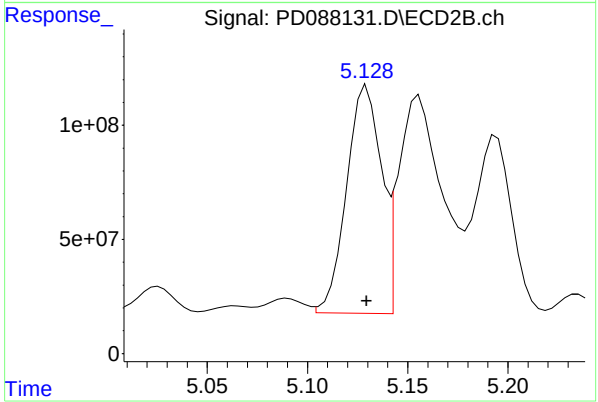
#24 Chlordane-2

R.T.: 4.491 min
Delta R.T.: 0.000 min
Response: 391540801
Conc: 500.00 ng/ml



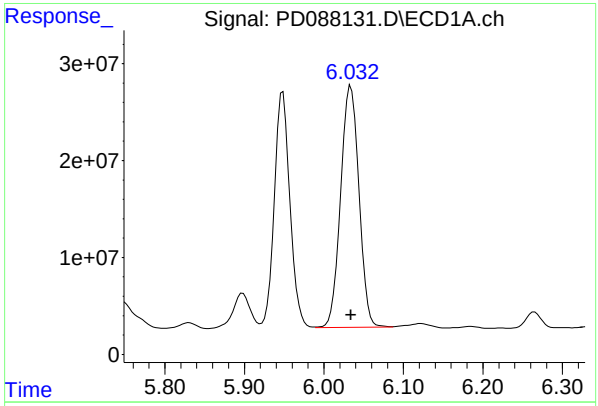
#25 Chlordane-3

R.T.: 5.948 min
Delta R.T.: 0.000 min
Response: 333092383
Conc: 500.00 ng/ml



#25 Chlordane-3

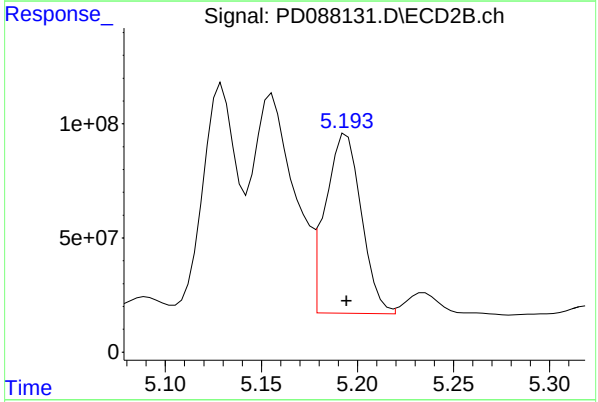
R.T.: 5.130 min
Delta R.T.: 0.000 min
Response: 1198415456
Conc: 500.00 ng/ml



#26 Chlordane-4

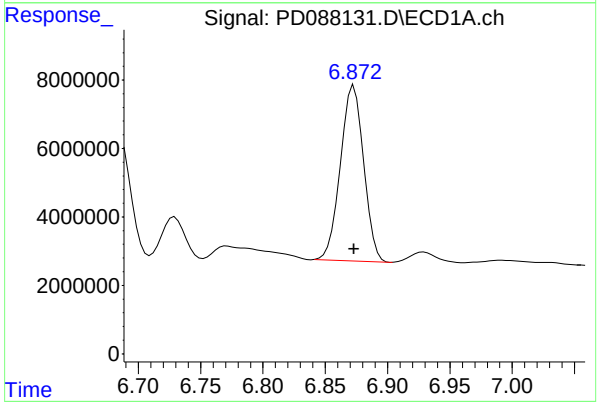
R.T.: 6.034 min
Delta R.T.: 0.000 min
Response: 398550398
Conc: 500.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PCHLORICC500



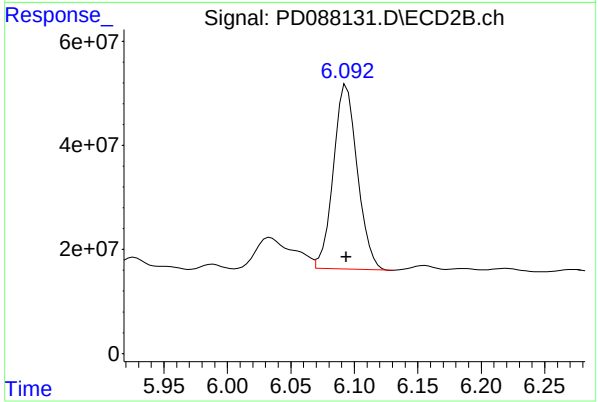
#26 Chlordane-4

R.T.: 5.194 min
Delta R.T.: 0.000 min
Response: 1015871598
Conc: 500.00 ng/ml



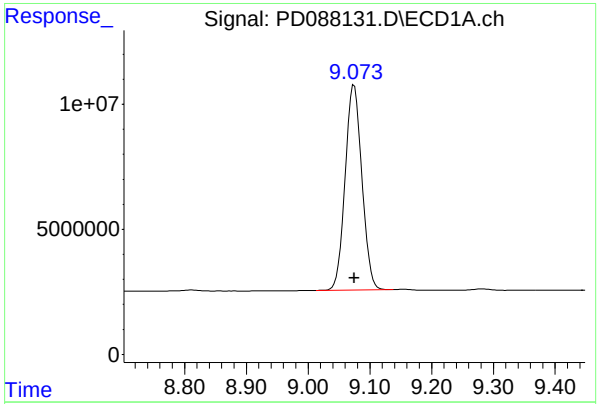
#27 Chlordane-5

R.T.: 6.873 min
Delta R.T.: 0.000 min
Response: 66525644
Conc: 500.00 ng/ml



#27 Chlordane-5

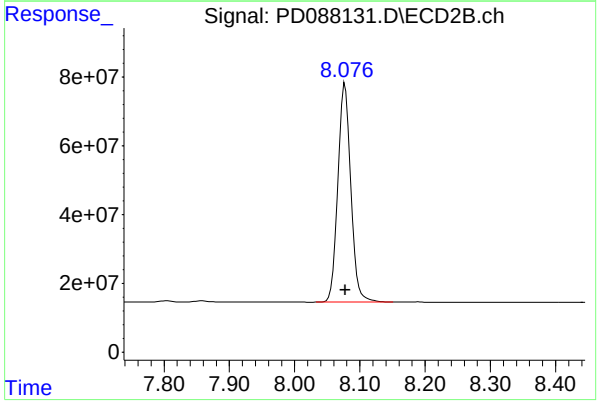
R.T.: 6.094 min
Delta R.T.: 0.000 min
Response: 465775552
Conc: 500.00 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.074 min
Delta R.T.: 0.000 min
Response: 154594960
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PCHLORICC500



#28 Decachlorobiphenyl

R.T.: 8.077 min
Delta R.T.: 0.000 min
Response: 878285751
Conc: 50.00 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088136.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 16:40
Operator : AR\AJ
Sample : PTOXICC500
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PTOXICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 06:17:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\DTX041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:16:20 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 x 0. 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...	3.552	2.883	101.0E6	721.8E6	50.000	50.000
7) SA	Decachlor...	9.074	8.077	164.9E6	890.5E6	50.000	50.000
	Target Compounds						
2)	Toxaphene-1	6.243	5.479	11798963	65341019	500.000	500.000
3)	Toxaphene-2	6.443	5.650	17032300	44756730	500.000	500.000
4)	Toxaphene-3	7.149	6.760	32663151	208.7E6	500.000	500.000
5)	Toxaphene-4	7.565	7.202	41022693	151.5E6	500.000	500.000
6)	Toxaphene-5	7.931	7.333	23857581	103.9E6	500.000	500.000

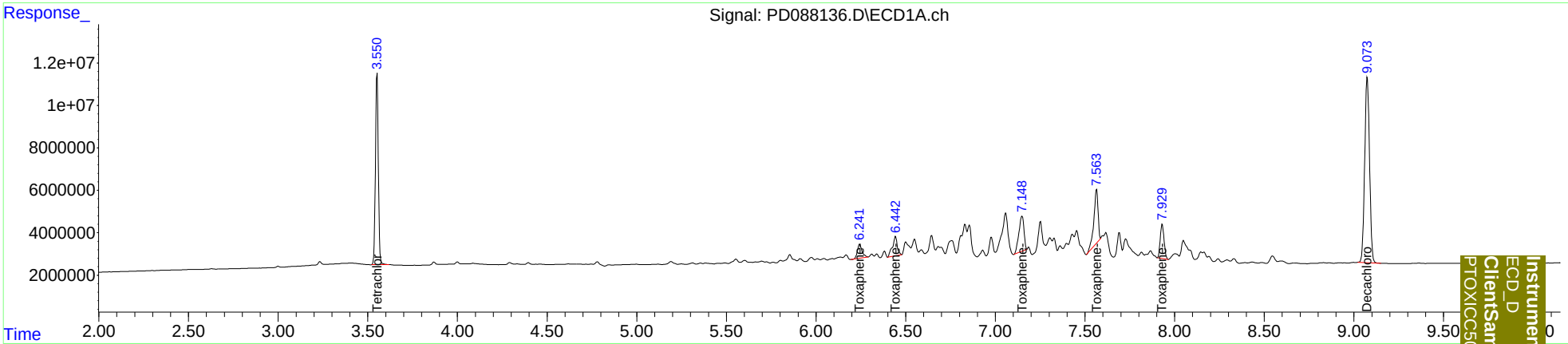
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

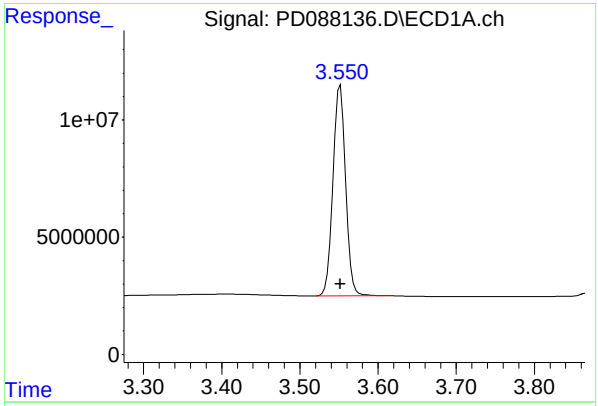
Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088136.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 16:40
Operator : AR\AJ
Sample : PTOXICC500
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 06:17:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\DTX041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:16:20 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 x 0. Signal #2 Info : 30M x 0.32mm x0.25µm

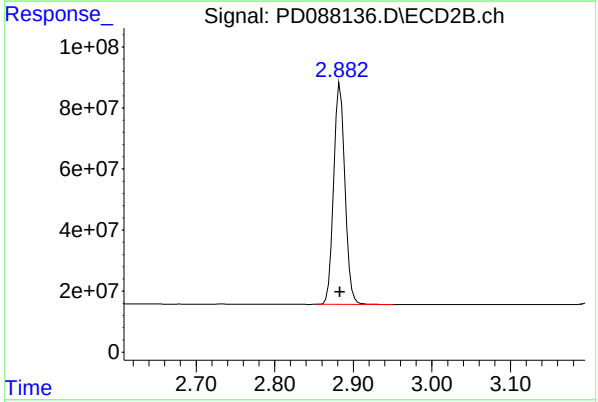




#1 Tetrachloro-m-xylene

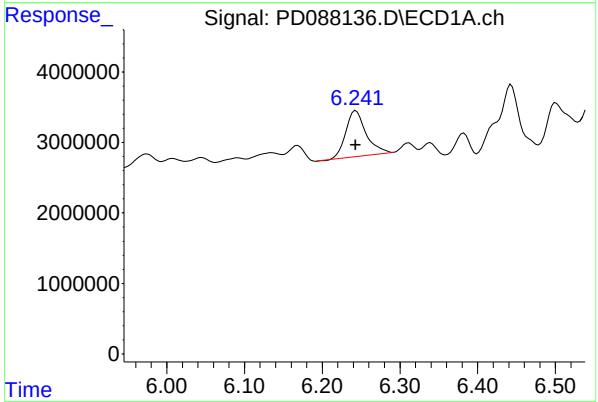
R.T.: 3.552 min
Delta R.T.: 0.000 min
Response: 101048762
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PTOXICC500



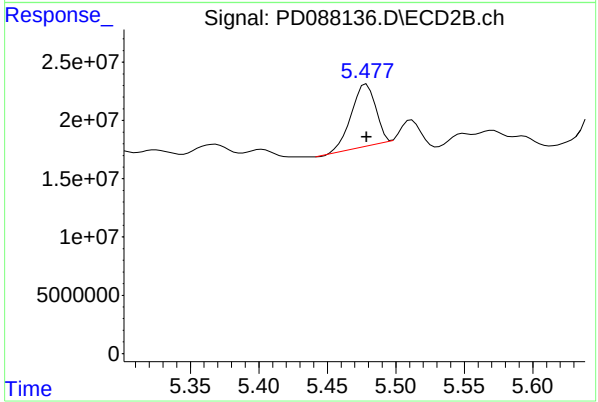
#1 Tetrachloro-m-xylene

R.T.: 2.883 min
Delta R.T.: 0.000 min
Response: 721814144
Conc: 50.00 ng/ml



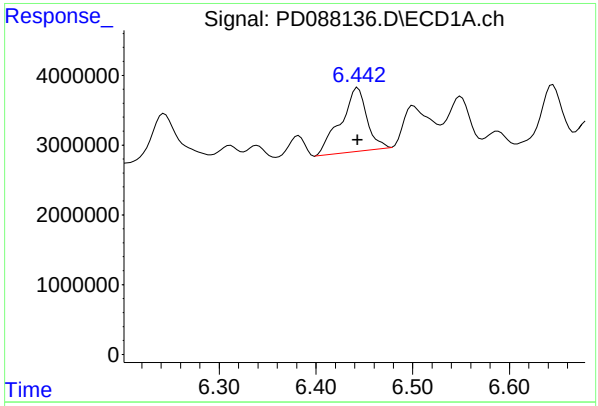
#2 Toxaphene-1

R.T.: 6.243 min
Delta R.T.: 0.000 min
Response: 11798963
Conc: 500.00 ng/ml



#2 Toxaphene-1

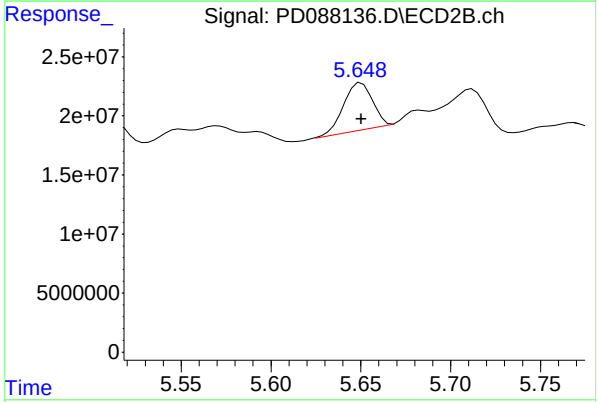
R.T.: 5.479 min
Delta R.T.: 0.000 min
Response: 65341019
Conc: 500.00 ng/ml



#3 Toxaphene-2

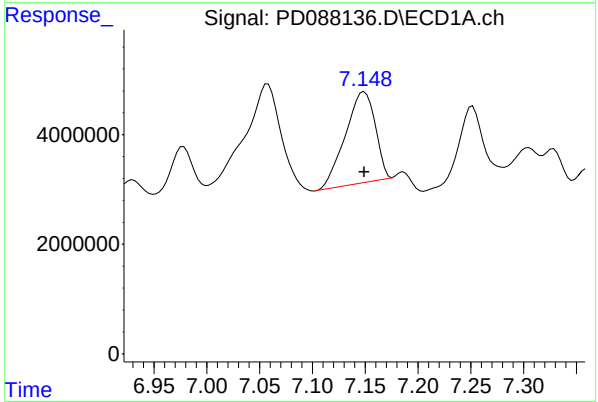
R.T.: 6.443 min
Delta R.T.: 0.000 min
Response: 17032300
Conc: 500.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PTOXICC500



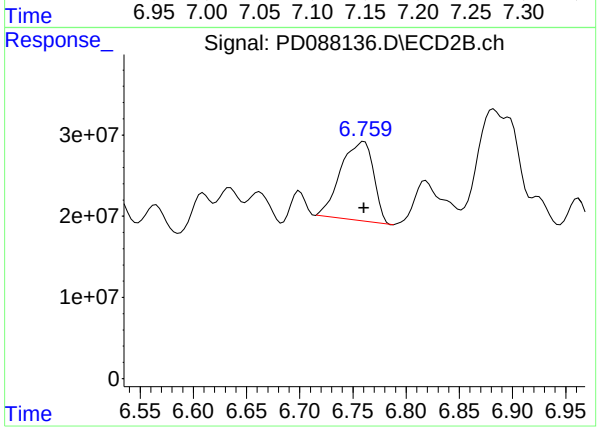
#3 Toxaphene-2

R.T.: 5.650 min
Delta R.T.: 0.000 min
Response: 44756730
Conc: 500.00 ng/ml



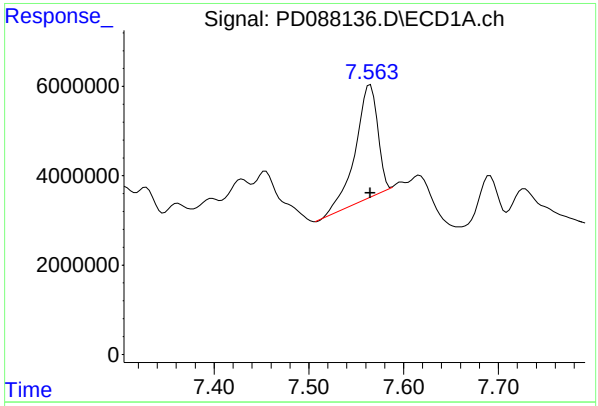
#4 Toxaphene-3

R.T.: 7.149 min
Delta R.T.: 0.000 min
Response: 32663151
Conc: 500.00 ng/ml



#4 Toxaphene-3

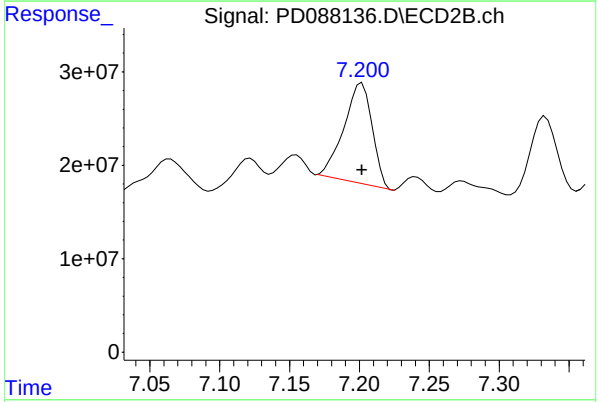
R.T.: 6.760 min
Delta R.T.: 0.000 min
Response: 208675981
Conc: 500.00 ng/ml



#5 Toxaphene-4

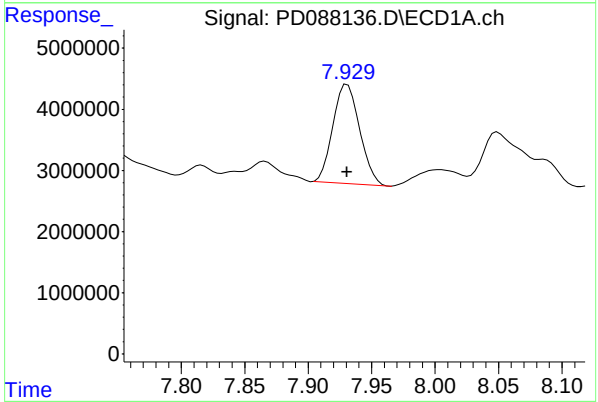
R.T.: 7.565 min
Delta R.T.: 0.000 min
Response: 41022693
Conc: 500.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PTOXICC500



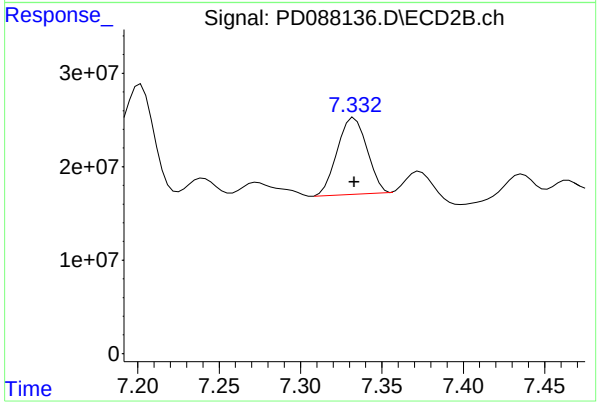
#5 Toxaphene-4

R.T.: 7.202 min
Delta R.T.: 0.000 min
Response: 151455448
Conc: 500.00 ng/ml



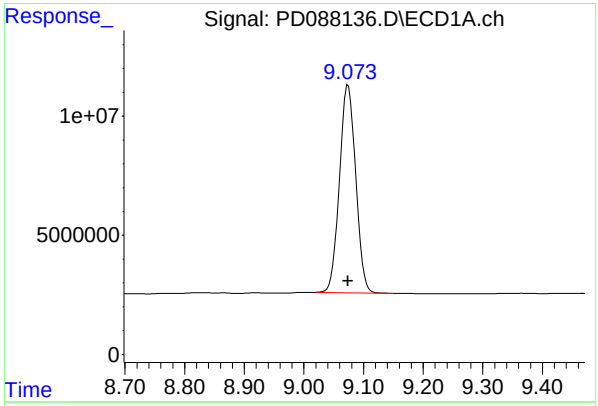
#6 Toxaphene-5

R.T.: 7.931 min
Delta R.T.: 0.000 min
Response: 23857581
Conc: 500.00 ng/ml



#6 Toxaphene-5

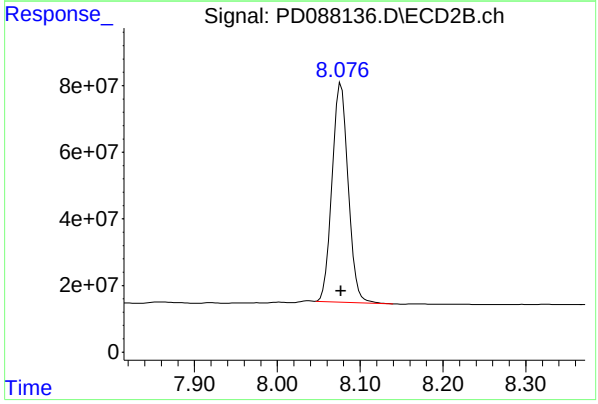
R.T.: 7.333 min
Delta R.T.: 0.000 min
Response: 103880468
Conc: 500.00 ng/ml



#7 Decachlorobiphenyl

R.T.: 9.074 min
Delta R.T.: 0.000 min
Response: 164915640
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PTOXICC500



#7 Decachlorobiphenyl

R.T.: 8.077 min
Delta R.T.: 0.000 min
Response: 890483655
Conc: 50.00 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088139.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 17:21
Operator : AR\AJ
Sample : PSTDICV050
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : ECD_D
ClientSampleId : ICVPD041825

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 03:53:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 03:51:59 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.552	2.883	98011498	705.8E6	50.556	50.375
28)	SA Decachlor...	9.074	8.076	156.5E6	873.1E6	49.237	49.975
	Target Compounds						
2)	A alpha-BHC	4.001	3.396	221.4E6	1115.2E6	51.003	50.483
3)	MA gamma-BHC...	4.332	3.732	211.2E6	1037.4E6	50.823	50.460
4)	MA Heptachlor	4.931	4.086	202.0E6	1034.4E6	50.784	50.400
5)	MB Aldrin	5.273	4.372	199.5E6	1010.7E6	50.990	50.536
6)	B beta-BHC	4.516	4.028	80388581	446.0E6	50.911	50.415
7)	B delta-BHC	4.765	4.265	207.4E6	1030.8E6	50.892	50.347
8)	B Heptachlo...	5.693	4.876	177.5E6	911.0E6	50.911	50.388
9)	A Endosulfan I	6.076	5.250	167.8E6	870.5E6	50.788	50.475
10)	B gamma-Chl...	5.947	5.129	179.7E6	979.0E6	50.819	50.365
11)	B alpha-Chl...	6.028	5.194	179.5E6	945.1E6	50.851	50.389
12)	B 4,4'-DDE	6.197	5.379	162.4E6	948.3E6	50.132	50.246
13)	MA Dieldrin	6.349	5.516	179.4E6	966.1E6	50.821	50.456
14)	MA Endrin	6.576	5.792	148.1E6	879.3E6	50.462	50.348
15)	B Endosulfa...	6.787	6.084	151.1E6	841.2E6	50.228	50.256
16)	A 4,4'-DDD	6.706	5.933	124.5E6	794.4E6	49.895	50.303
17)	MA 4,4'-DDT	7.022	6.187	137.1E6	844.1E6	49.781	50.406
18)	B Endrin al...	6.916	6.262	112.7E6	640.6E6	50.151	50.415
19)	B Endosulfa...	7.150	6.486	140.8E6	824.1E6	50.153	50.192
20)	A Methoxychlor	7.494	6.758	73171542	444.8E6	49.850	50.322
21)	B Endrin ke...	7.631	6.994	151.9E6	901.7E6	50.003	50.358
22)	Mirex	8.115	7.189	112.8E6	707.4E6	50.149	50.451

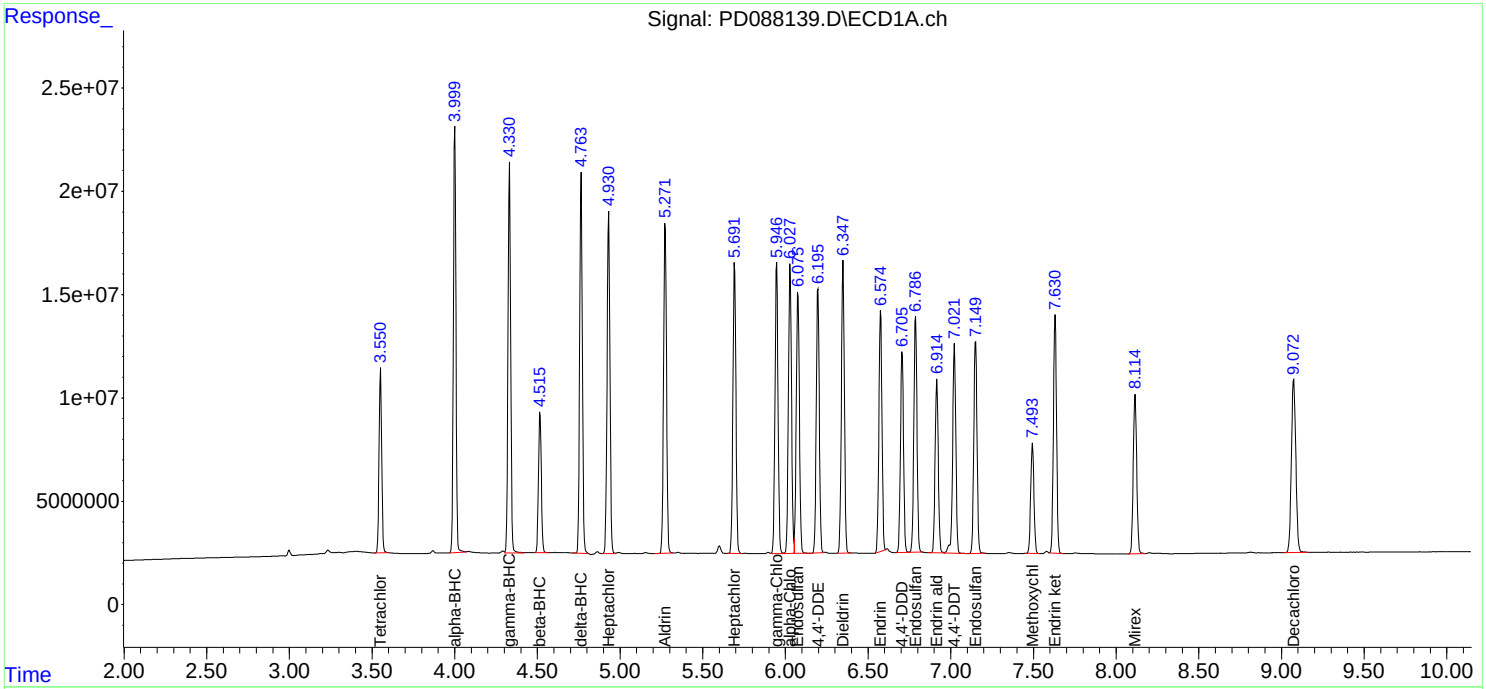
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

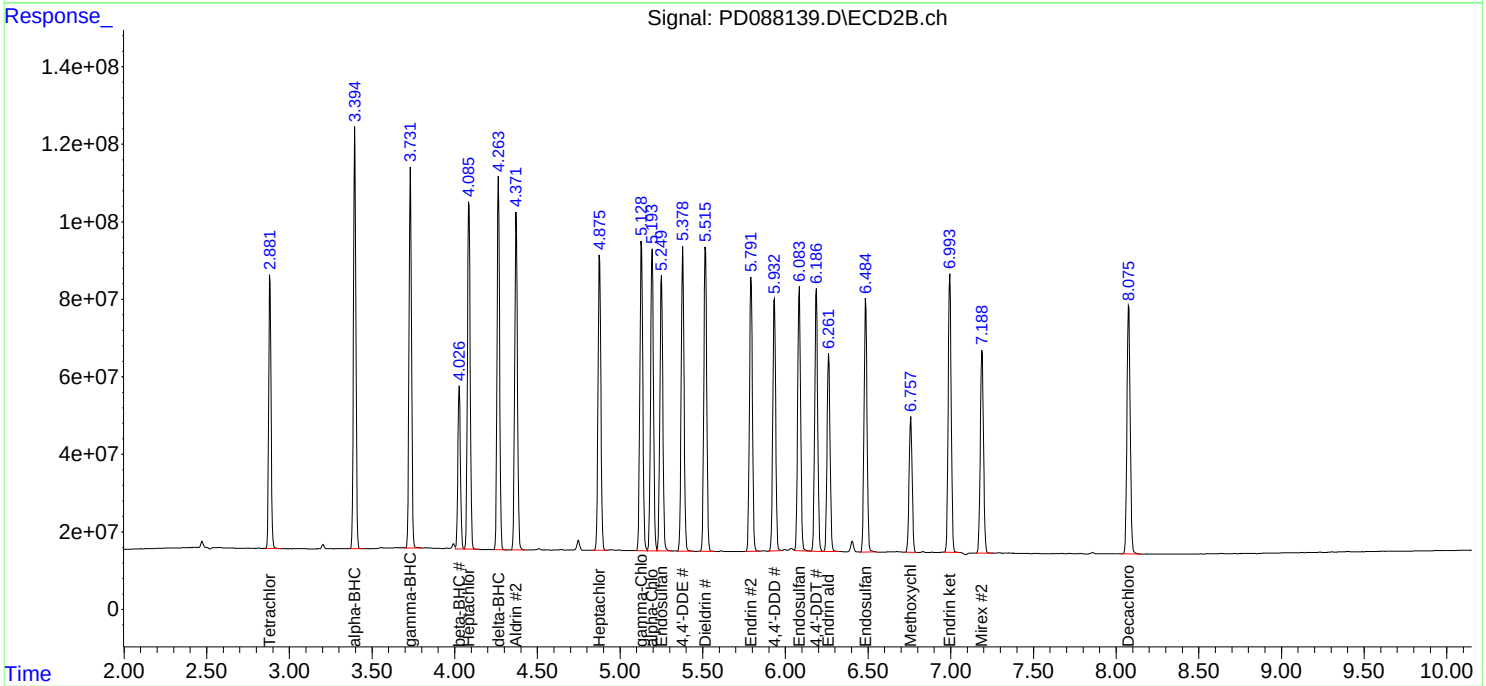
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088139.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 17:21
Operator : AR\AJ
Sample : PSTDICV050
Misc :
ALS Vial : 20 Sample Multiplier: 1

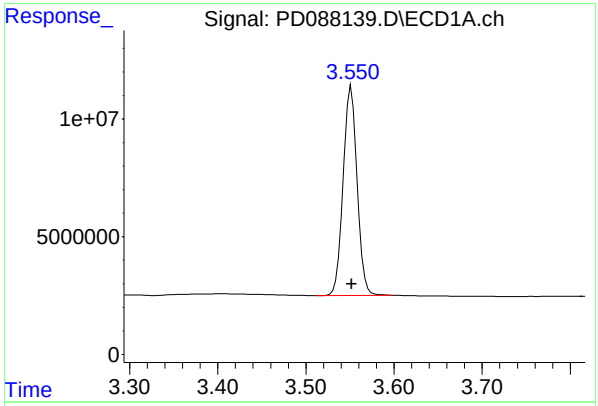
Instrument :
ECD_D
ClientSampleId :
ICVPD041825

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 03:53:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 03:51:59 2025
Response via : Initial Calibration
Integrator: ChemStation

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



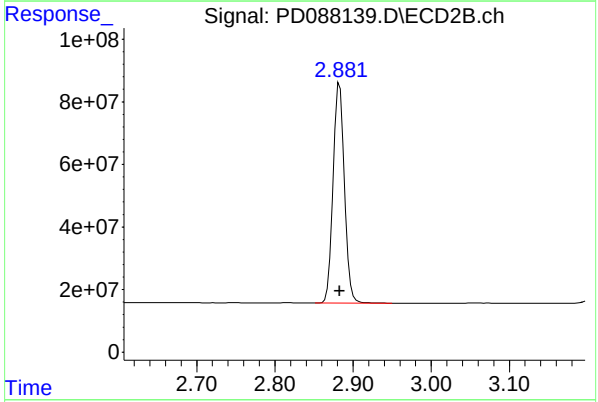




#1 Tetrachloro-m-xylene

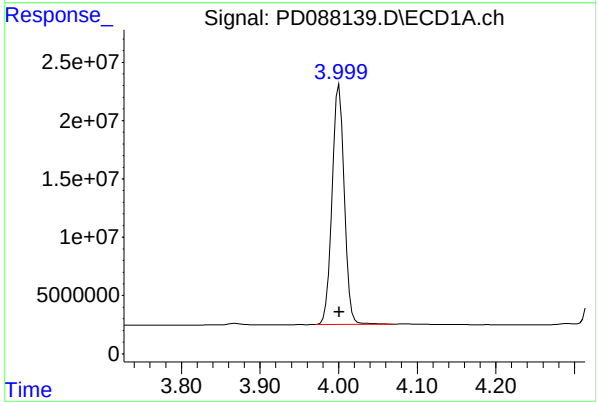
R.T.: 3.552 min
Delta R.T.: 0.000 min
Response: 98011498
Conc: 50.56 ng/ml

Instrument :
ECD_D
ClientSampleId :
ICVPD041825



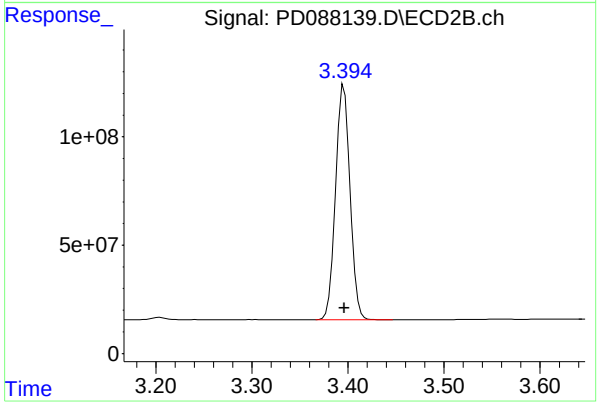
#1 Tetrachloro-m-xylene

R.T.: 2.883 min
Delta R.T.: 0.000 min
Response: 705799017
Conc: 50.38 ng/ml



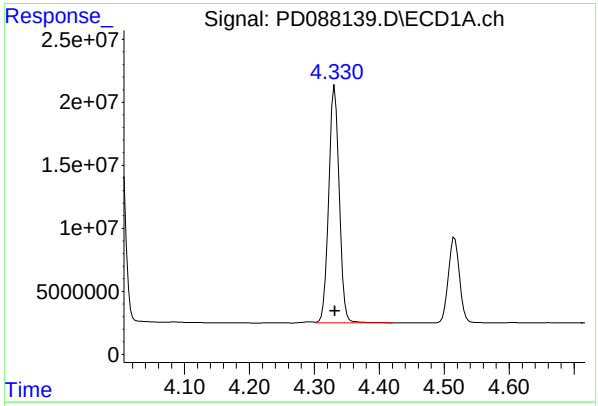
#2 alpha-BHC

R.T.: 4.001 min
Delta R.T.: 0.000 min
Response: 221393497
Conc: 51.00 ng/ml



#2 alpha-BHC

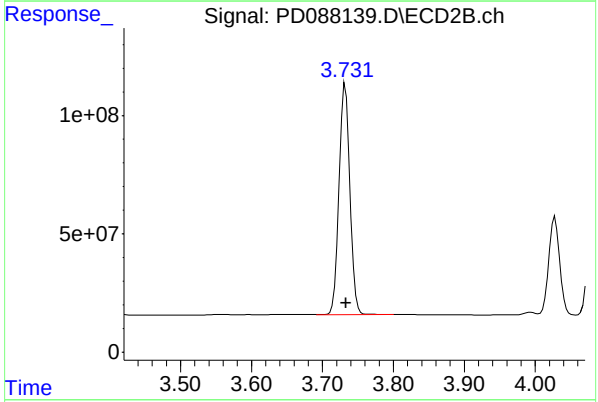
R.T.: 3.396 min
Delta R.T.: 0.000 min
Response: 1115182069
Conc: 50.48 ng/ml



#3 gamma-BHC (Lindane)

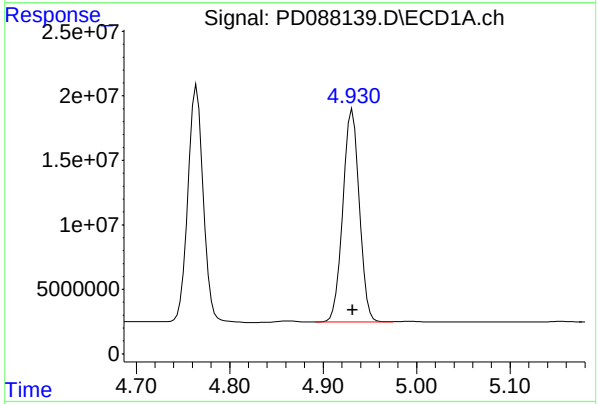
R.T.: 4.332 min
Delta R.T.: 0.000 min
Response: 211172809
Conc: 50.82 ng/ml

Instrument :
ECD_D
ClientSampleId :
ICVPD041825



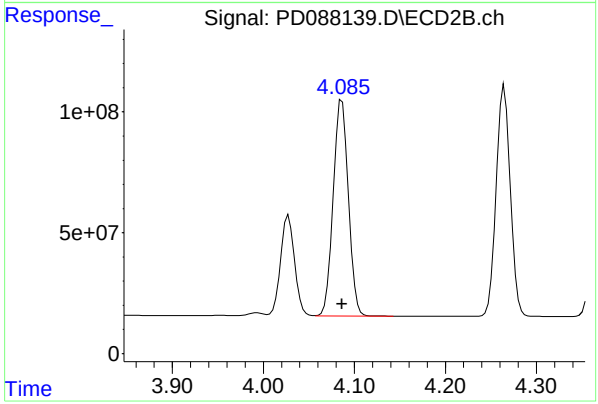
#3 gamma-BHC (Lindane)

R.T.: 3.732 min
Delta R.T.: 0.000 min
Response: 1037364888
Conc: 50.46 ng/ml



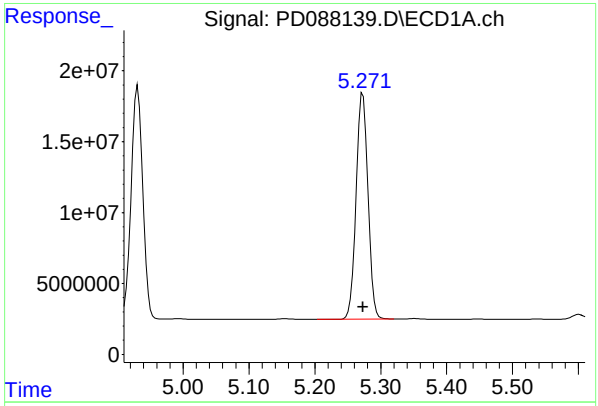
#4 Heptachlor

R.T.: 4.931 min
Delta R.T.: 0.000 min
Response: 202030295
Conc: 50.78 ng/ml



#4 Heptachlor

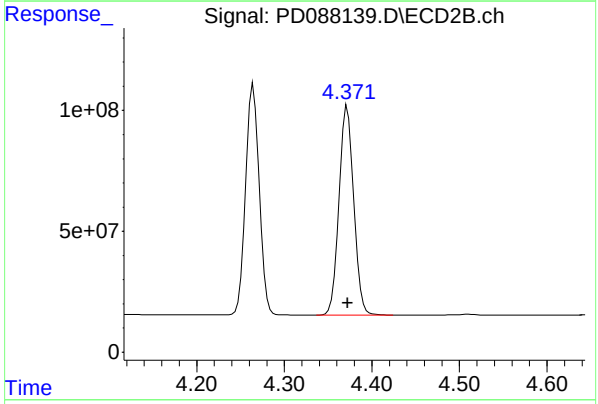
R.T.: 4.086 min
Delta R.T.: 0.000 min
Response: 1034351060
Conc: 50.40 ng/ml



#5 Aldrin

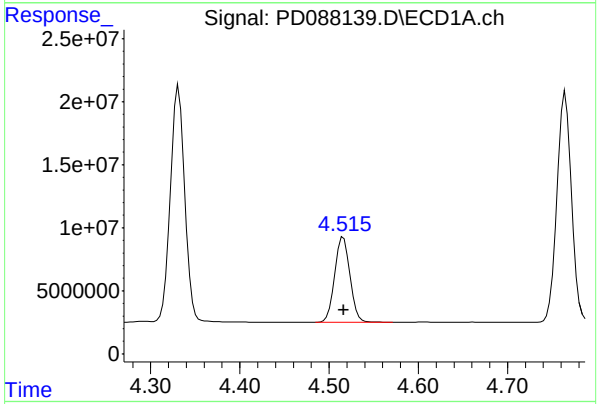
R.T.: 5.273 min
Delta R.T.: 0.000 min
Response: 199461912
Conc: 50.99 ng/ml

Instrument :
ECD_D
ClientSampleId :
ICVPD041825



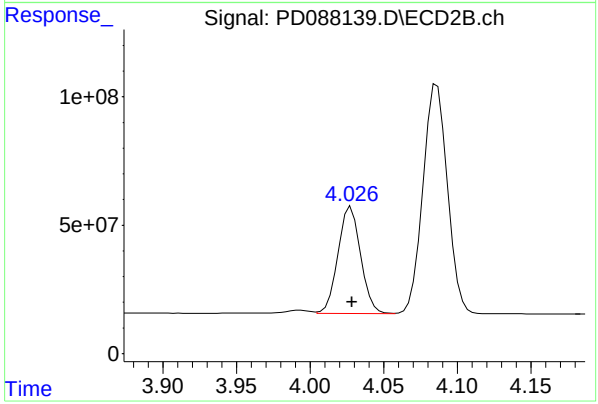
#5 Aldrin

R.T.: 4.372 min
Delta R.T.: 0.000 min
Response: 1010715251
Conc: 50.54 ng/ml



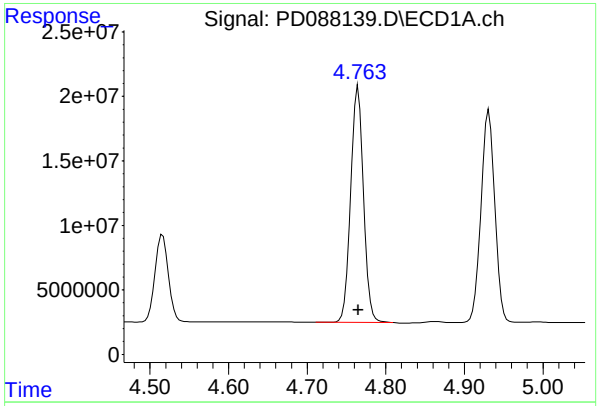
#6 beta-BHC

R.T.: 4.516 min
Delta R.T.: 0.000 min
Response: 80388581
Conc: 50.91 ng/ml



#6 beta-BHC

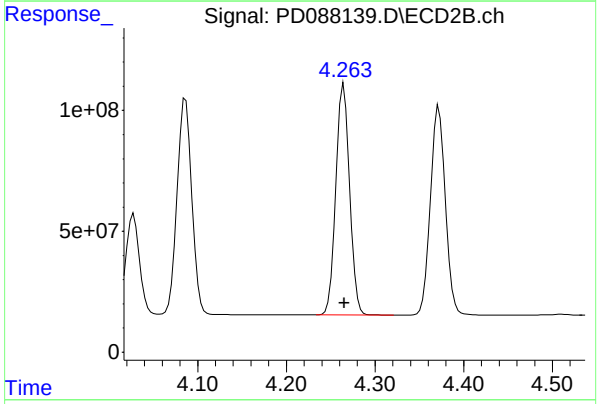
R.T.: 4.028 min
Delta R.T.: 0.000 min
Response: 446043651
Conc: 50.41 ng/ml



#7 delta-BHC

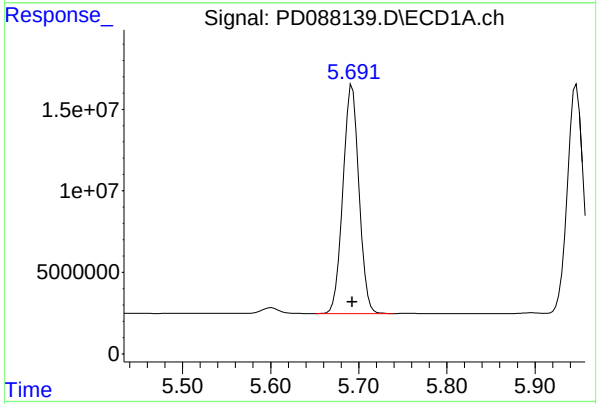
R.T.: 4.765 min
Delta R.T.: 0.000 min
Response: 207423973
Conc: 50.89 ng/ml

Instrument :
ECD_D
ClientSampleId :
ICVPD041825



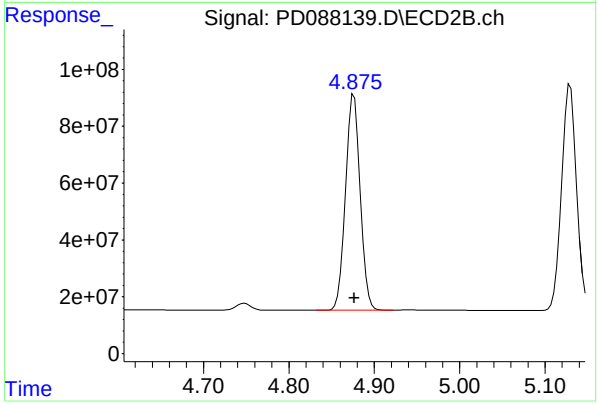
#7 delta-BHC

R.T.: 4.265 min
Delta R.T.: 0.000 min
Response: 1030781264
Conc: 50.35 ng/ml



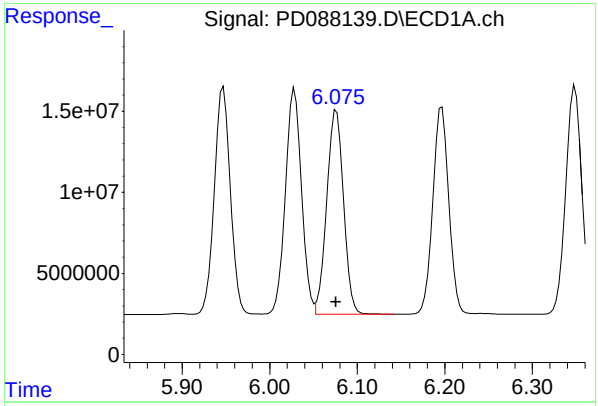
#8 Heptachlor epoxide

R.T.: 5.693 min
Delta R.T.: 0.000 min
Response: 177493487
Conc: 50.91 ng/ml



#8 Heptachlor epoxide

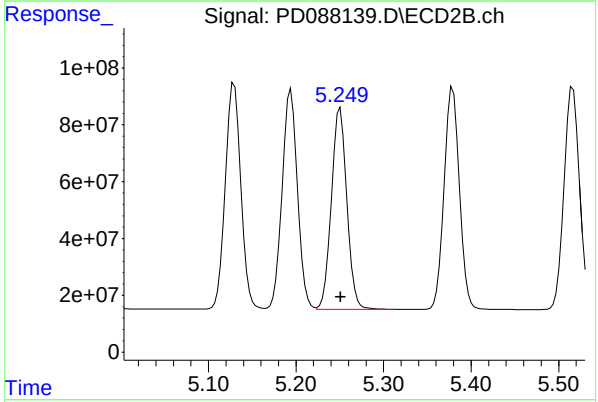
R.T.: 4.876 min
Delta R.T.: 0.000 min
Response: 911005145
Conc: 50.39 ng/ml



#9 Endosulfan I

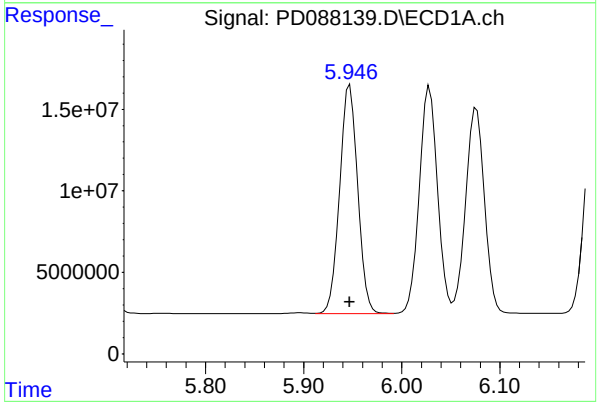
R.T.: 6.076 min
Delta R.T.: 0.000 min
Response: 167805814
Conc: 50.79 ng/ml

Instrument :
ECD_D
ClientSampleId :
ICVPD041825



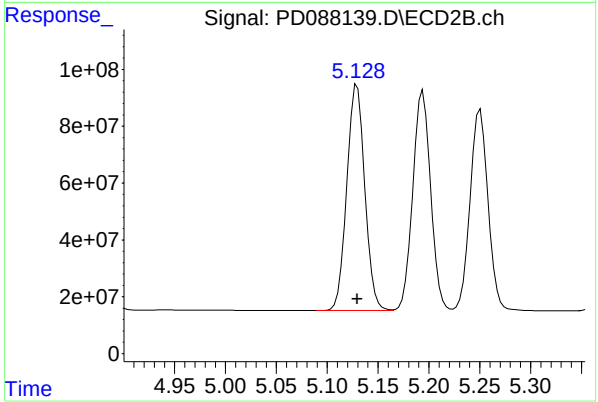
#9 Endosulfan I

R.T.: 5.250 min
Delta R.T.: 0.000 min
Response: 870518271
Conc: 50.47 ng/ml



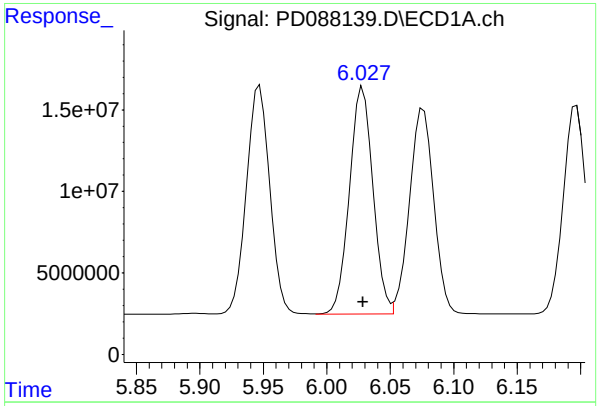
#10 gamma-Chlordane

R.T.: 5.947 min
Delta R.T.: 0.000 min
Response: 179709841
Conc: 50.82 ng/ml



#10 gamma-Chlordane

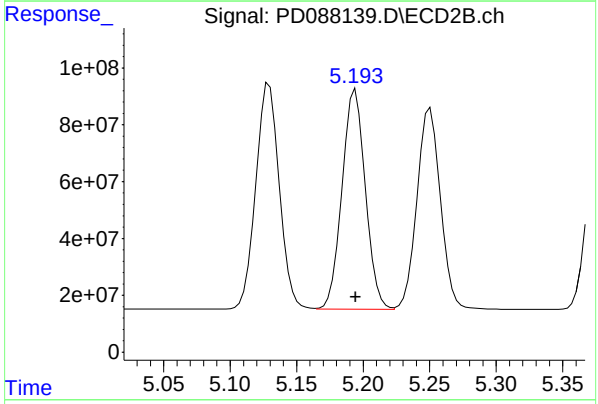
R.T.: 5.129 min
Delta R.T.: 0.000 min
Response: 978964409
Conc: 50.37 ng/ml



#11 alpha-Chlordane

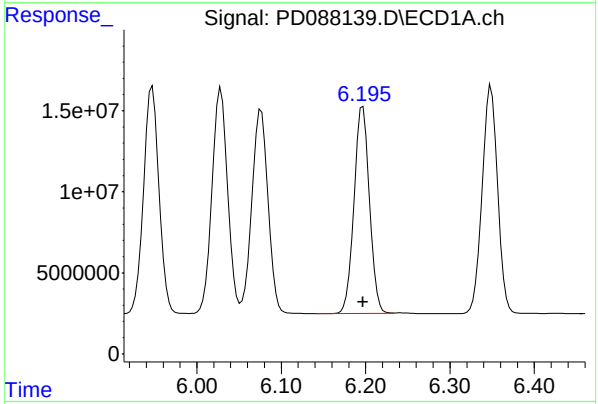
R.T.: 6.028 min
Delta R.T.: 0.000 min
Response: 179481003
Conc: 50.85 ng/ml

Instrument :
ECD_D
ClientSampleId :
ICVPD041825



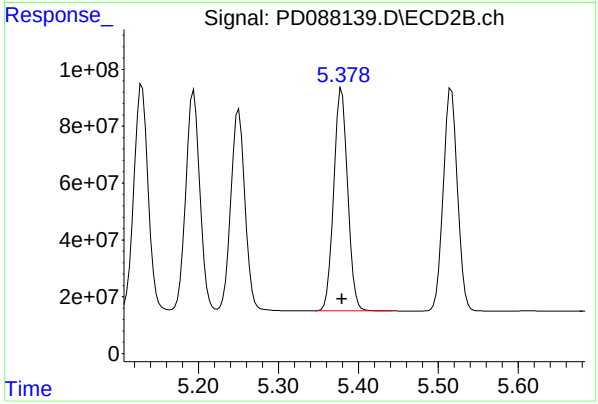
#11 alpha-Chlordane

R.T.: 5.194 min
Delta R.T.: 0.000 min
Response: 945050788
Conc: 50.39 ng/ml



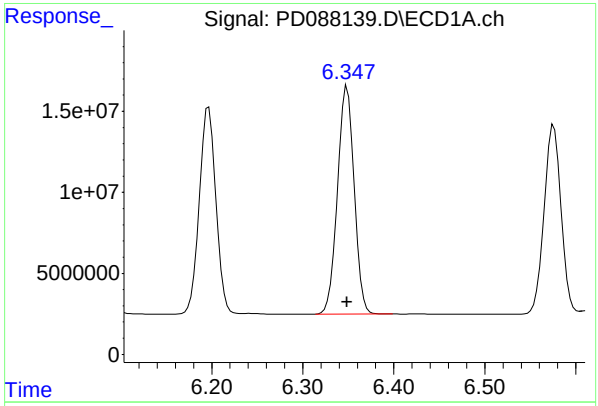
#12 4,4'-DDE

R.T.: 6.197 min
Delta R.T.: 0.000 min
Response: 162434278
Conc: 50.13 ng/ml



#12 4,4'-DDE

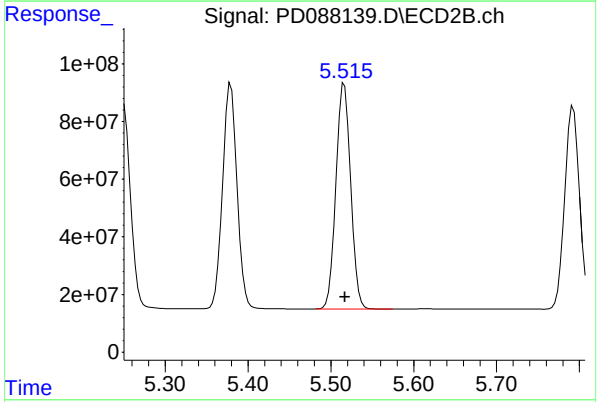
R.T.: 5.379 min
Delta R.T.: 0.000 min
Response: 948273116
Conc: 50.25 ng/ml



#13 Dieldrin

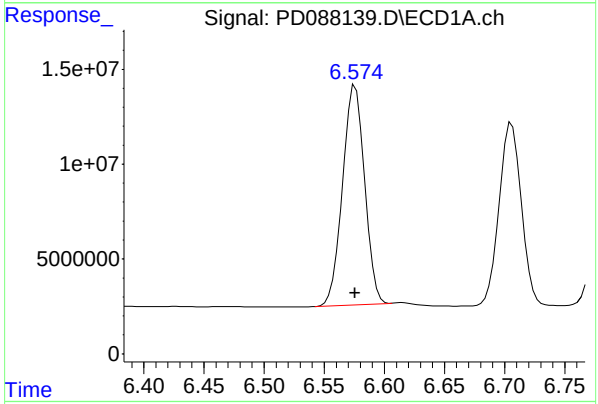
R.T.: 6.349 min
Delta R.T.: 0.000 min
Response: 179415992
Conc: 50.82 ng/ml

Instrument :
ECD_D
ClientSampleId :
ICVPD041825



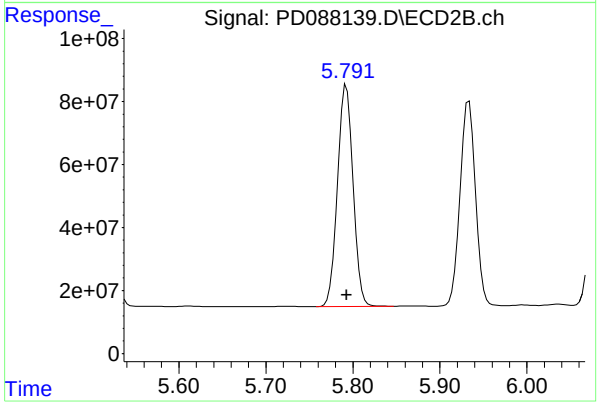
#13 Dieldrin

R.T.: 5.516 min
Delta R.T.: 0.000 min
Response: 966053487
Conc: 50.46 ng/ml



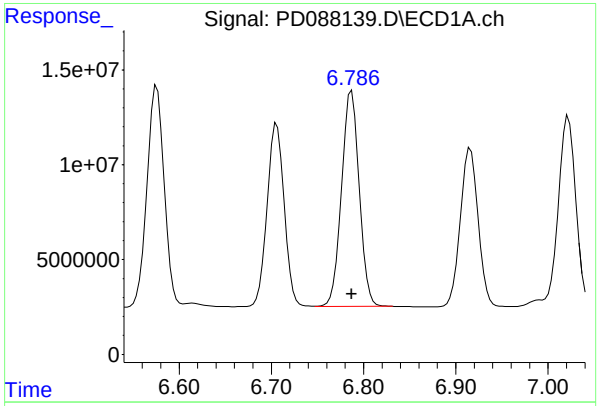
#14 Endrin

R.T.: 6.576 min
Delta R.T.: 0.000 min
Response: 148128679
Conc: 50.46 ng/ml



#14 Endrin

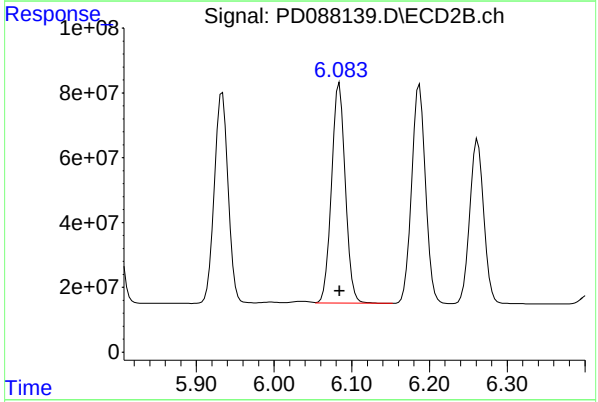
R.T.: 5.792 min
Delta R.T.: 0.000 min
Response: 879301553
Conc: 50.35 ng/ml



#15 Endosulfan II

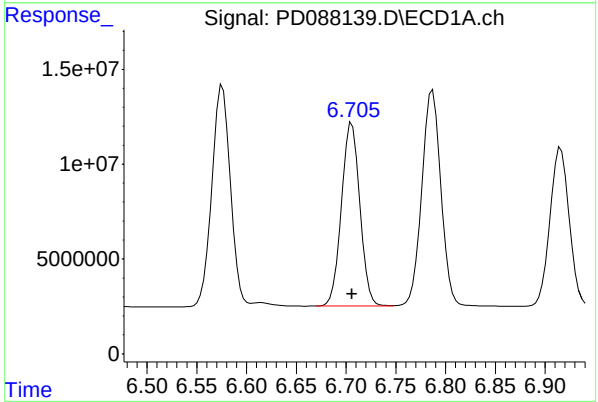
R.T.: 6.787 min
Delta R.T.: 0.000 min
Response: 151062142
Conc: 50.23 ng/ml

Instrument :
ECD_D
ClientSampleId :
ICVPD041825



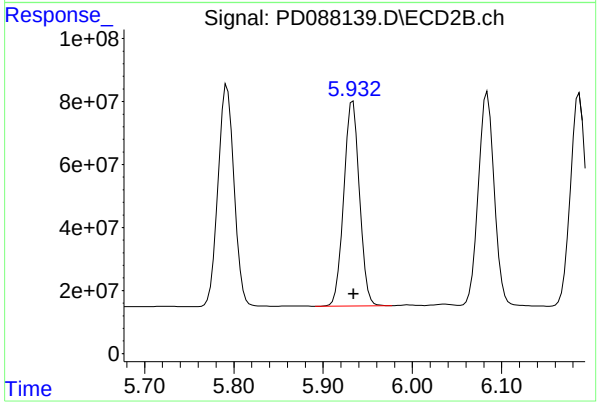
#15 Endosulfan II

R.T.: 6.084 min
Delta R.T.: 0.000 min
Response: 841171462
Conc: 50.26 ng/ml



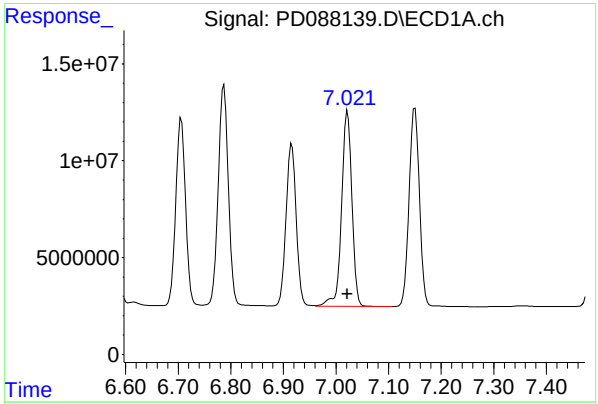
#16 4,4'-DDD

R.T.: 6.706 min
Delta R.T.: 0.000 min
Response: 124488365
Conc: 49.90 ng/ml



#16 4,4'-DDD

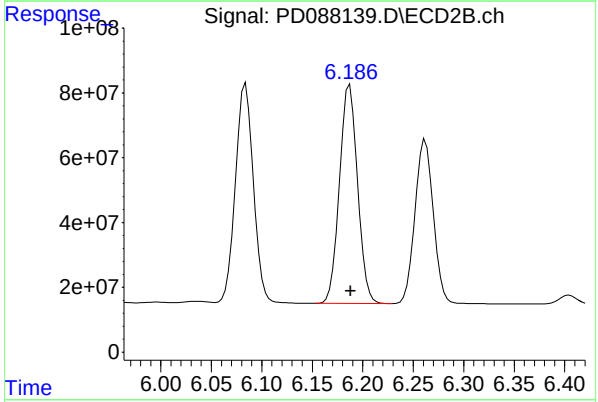
R.T.: 5.933 min
Delta R.T.: 0.000 min
Response: 794389777
Conc: 50.30 ng/ml



#17 4,4'-DDT

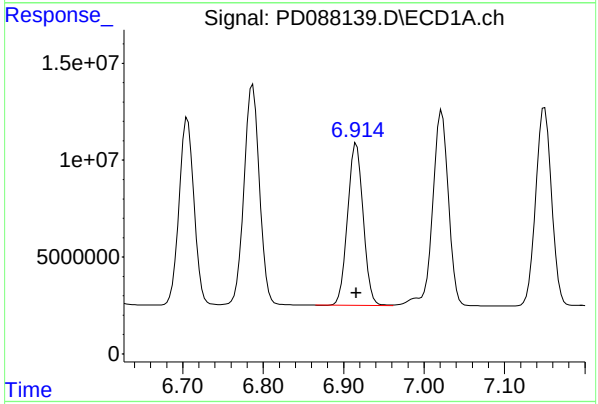
R.T.: 7.022 min
Delta R.T.: 0.000 min
Response: 137147926
Conc: 49.78 ng/ml

Instrument :
ECD_D
ClientSampleId :
ICVPD041825



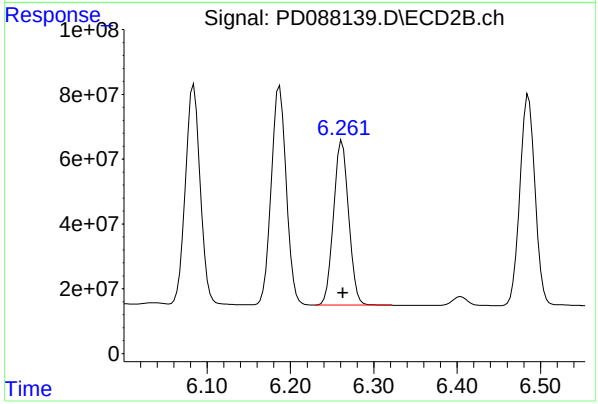
#17 4,4'-DDT

R.T.: 6.187 min
Delta R.T.: 0.000 min
Response: 844081929
Conc: 50.41 ng/ml



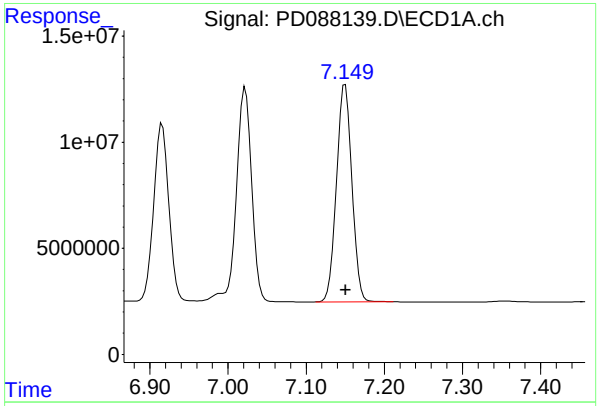
#18 Endrin aldehyde

R.T.: 6.916 min
Delta R.T.: 0.000 min
Response: 112683671
Conc: 50.15 ng/ml



#18 Endrin aldehyde

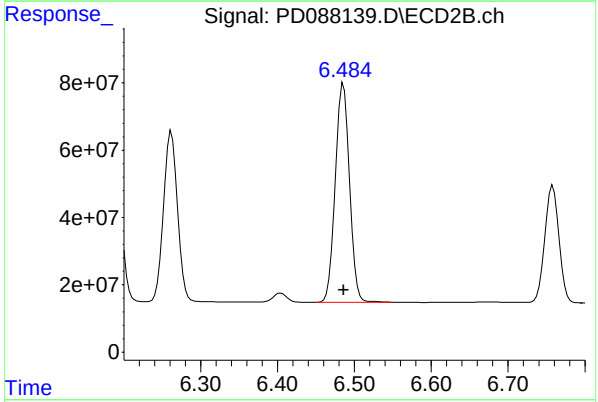
R.T.: 6.262 min
Delta R.T.: 0.000 min
Response: 640639261
Conc: 50.42 ng/ml



#19 Endosulfan Sulfate

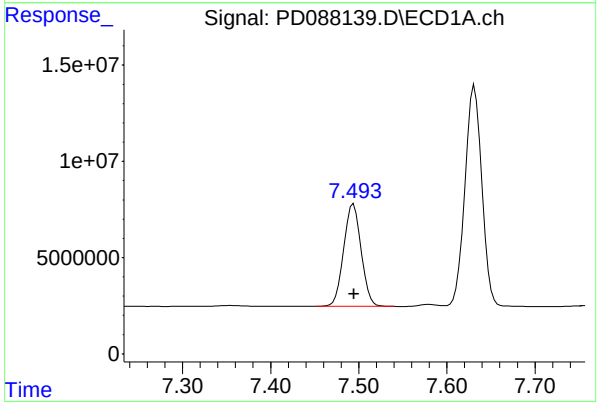
R.T.: 7.150 min
Delta R.T.: 0.000 min
Response: 140809310
Conc: 50.15 ng/ml

Instrument :
ECD_D
ClientSampleId :
ICVPD041825



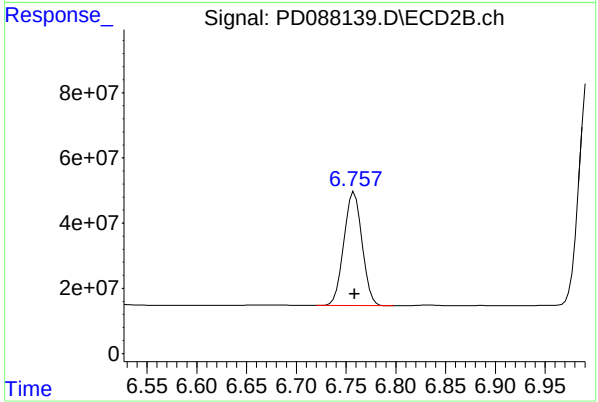
#19 Endosulfan Sulfate

R.T.: 6.486 min
Delta R.T.: 0.000 min
Response: 824122810
Conc: 50.19 ng/ml



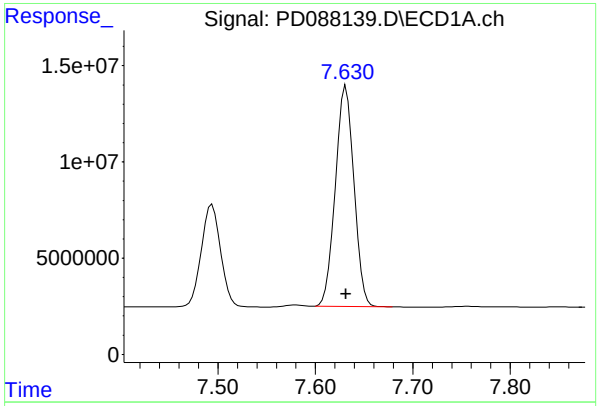
#20 Methoxychlor

R.T.: 7.494 min
Delta R.T.: 0.000 min
Response: 73171542
Conc: 49.85 ng/ml



#20 Methoxychlor

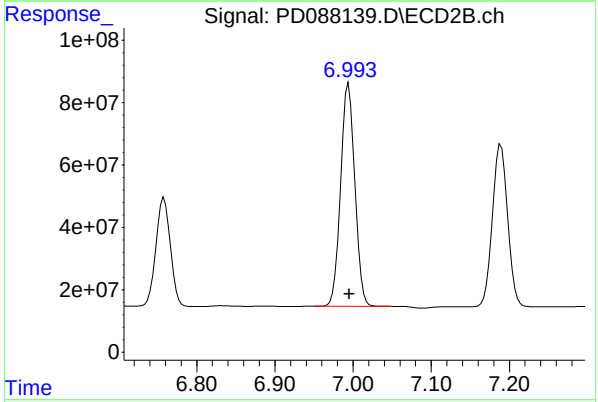
R.T.: 6.758 min
Delta R.T.: 0.000 min
Response: 444804071
Conc: 50.32 ng/ml



#21 Endrin ketone

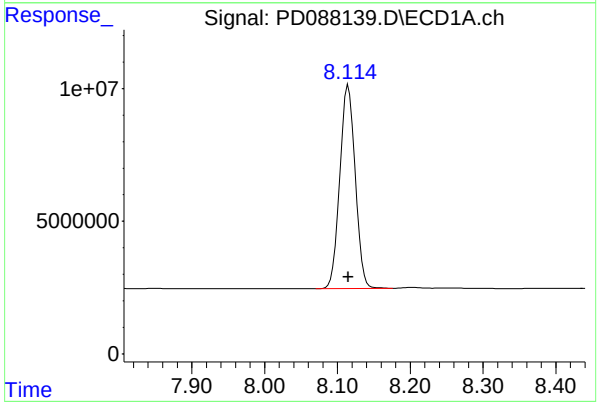
R.T.: 7.631 min
Delta R.T.: 0.000 min
Response: 151883561
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
ICVPD041825



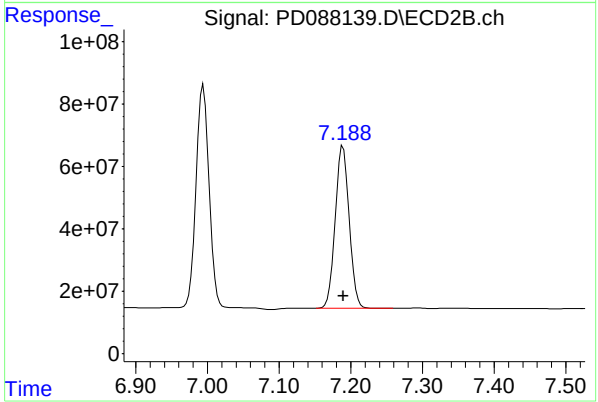
#21 Endrin ketone

R.T.: 6.994 min
Delta R.T.: 0.000 min
Response: 901676600
Conc: 50.36 ng/ml



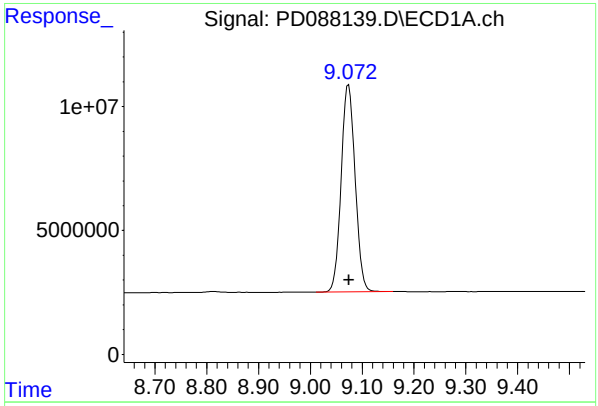
#22 Mirex

R.T.: 8.115 min
Delta R.T.: 0.000 min
Response: 112817583
Conc: 50.15 ng/ml



#22 Mirex

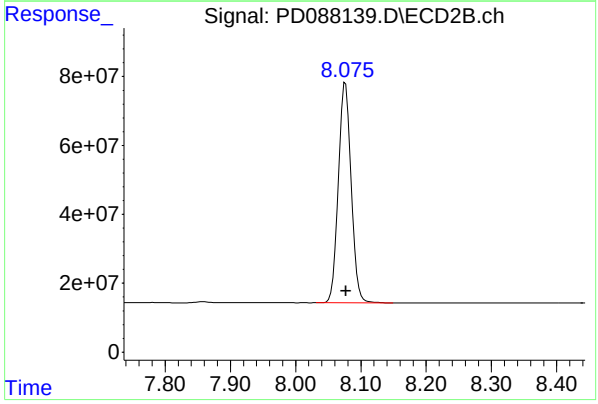
R.T.: 7.189 min
Delta R.T.: 0.000 min
Response: 707411755
Conc: 50.45 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.074 min
Delta R.T.: -0.001 mi
Response: 156483013
Conc: 49.24 ng/m

Instrument :
ECD_D
ClientSampleId :
ICVPD041825



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 873072499
Conc: 49.97 ng/ml

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Instrument ID: ECD_D **Calibration Date(s):** 05/19/2025 05/19/2025

Calibration Times: 11:31 12:25

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

LAB FILE ID: RT 100 = PD088586.D RT 075 = PD088587.D

RT 050 = PD088588.D RT 025 = PD088589.D RT 005 = PD088590.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4,4'-DDD	6.71	6.71	6.71	6.71	6.71	6.71	6.61	6.81
4,4'-DDE	6.20	6.20	6.20	6.20	6.20	6.20	6.10	6.30
4,4'-DDT	7.02	7.02	7.02	7.02	7.02	7.02	6.92	7.12
Aldrin	5.27	5.27	5.27	5.27	5.27	5.27	5.17	5.37
alpha-BHC	4.00	4.00	4.00	4.00	4.00	4.00	3.90	4.10
alpha-Chlordane	6.03	6.03	6.03	6.03	6.03	6.03	5.93	6.13
beta-BHC	4.52	4.52	4.52	4.52	4.52	4.52	4.42	4.62
Decachlorobiphenyl	9.08	9.08	9.08	9.08	9.08	9.08	8.98	9.18
delta-BHC	4.77	4.77	4.77	4.77	4.76	4.76	4.66	4.86
Dieldrin	6.35	6.35	6.35	6.35	6.35	6.35	6.25	6.45
Endosulfan I	6.08	6.08	6.08	6.08	6.08	6.08	5.98	6.18
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	7.15	7.15	7.15	7.05	7.25
Endrin	6.58	6.58	6.58	6.58	6.58	6.58	6.48	6.68
Endrin aldehyde	6.92	6.92	6.92	6.92	6.92	6.92	6.82	7.02
Endrin ketone	7.63	7.63	7.63	7.63	7.63	7.63	7.53	7.73
gamma-BHC (Lindane)	4.33	4.33	4.33	4.33	4.33	4.33	4.23	4.43
gamma-Chlordane	5.95	5.95	5.95	5.95	5.95	5.95	5.85	6.05
Heptachlor	4.93	4.93	4.93	4.93	4.93	4.93	4.83	5.03
Heptachlor epoxide	5.69	5.69	5.69	5.69	5.69	5.69	5.59	5.79
Methoxychlor	7.50	7.50	7.50	7.50	7.50	7.50	7.40	7.60
Tetrachloro-m-xylene	3.55	3.55	3.55	3.55	3.55	3.55	3.45	3.65

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Instrument ID: ECD_D **Calibration Date(s):** 05/19/2025 05/19/2025

Calibration Times: 11:31 12:25

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

LAB FILE ID: RT 100 = PD088586.D RT 075 = PD088587.D

RT 050 = PD088588.D RT 025 = PD088589.D RT 005 = PD088590.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4,4'-DDD	5.93	5.93	5.93	5.93	5.93	5.93	5.83	6.03
4,4'-DDE	5.38	5.38	5.38	5.38	5.38	5.38	5.28	5.48
4,4'-DDT	6.19	6.19	6.19	6.19	6.19	6.19	6.09	6.29
Aldrin	4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47
alpha-BHC	3.39	3.39	3.39	3.40	3.39	3.39	3.29	3.49
alpha-Chlordane	5.19	5.19	5.19	5.19	5.19	5.19	5.09	5.29
beta-BHC	4.03	4.03	4.03	4.03	4.03	4.03	3.93	4.13
Decachlorobiphenyl	8.08	8.08	8.08	8.08	8.08	8.08	7.98	8.18
delta-BHC	4.26	4.26	4.26	4.26	4.26	4.26	4.16	4.36
Dieldrin	5.52	5.52	5.52	5.52	5.52	5.52	5.42	5.62
Endosulfan I	5.25	5.25	5.25	5.25	5.25	5.25	5.15	5.35
Endosulfan II	6.08	6.08	6.08	6.08	6.08	6.08	5.98	6.18
Endosulfan sulfate	6.49	6.49	6.49	6.49	6.49	6.49	6.39	6.59
Endrin	5.79	5.79	5.79	5.79	5.79	5.79	5.69	5.89
Endrin aldehyde	6.26	6.26	6.26	6.26	6.26	6.26	6.16	6.36
Endrin ketone	6.99	7.00	7.00	7.00	7.00	6.99	6.89	7.09
gamma-BHC (Lindane)	3.73	3.73	3.73	3.73	3.73	3.73	3.63	3.83
gamma-Chlordane	5.13	5.13	5.13	5.13	5.13	5.13	5.03	5.23
Heptachlor	4.09	4.08	4.09	4.09	4.08	4.08	3.98	4.18
Heptachlor epoxide	4.88	4.88	4.88	4.88	4.87	4.87	4.77	4.97
Methoxychlor	6.76	6.76	6.76	6.76	6.76	6.76	6.66	6.86
Tetrachloro-m-xylene	2.88	2.88	2.88	2.88	2.88	2.88	2.78	2.98

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Instrument ID: ECD_D **Calibration Date(s):** 05/19/2025 05/19/2025

Calibration Times: 11:31 12:25

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

LAB FILE ID: **CF 100 =** PD088586.D **CF 075 =** PD088587.D

CF 050 = PD088588.D **CF 025 =** PD088589.D **CF 005 =** PD088590.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	2914090000	2799000000	2779180000	2710870000	2722370000	2785100000	3
4,4'-DDE	3774980000	3611130000	3587930000	3472130000	3500730000	3589380000	3
4,4'-DDT	3259380000	3125810000	3123770000	3049470000	3051770000	3122040000	3
Aldrin	4596320000	4382320000	4371060000	4250500000	4372370000	4394520000	3
alpha-BHC	5243840000	4927900000	4847290000	4558490000	4305310000	4776570000	8
alpha-Chlordane	4076620000	3927960000	3953820000	3921900000	4151070000	4006270000	3
beta-BHC	1766090000	1717900000	1760360000	1812740000	1958690000	1803160000	5
Decachlorobiphenyl	3171750000	3154190000	3328750000	3504210000	3952750000	3422330000	10
delta-BHC	4581340000	4301280000	4227770000	4018060000	4002280000	4226150000	6
Dieldrin	4168640000	3995190000	3987890000	3911690000	3995230000	4011730000	2
Endosulfan I	3801350000	3677400000	3708760000	3706130000	3920970000	3762920000	3
Endosulfan II	3424800000	3321140000	3361490000	3381320000	3729210000	3443590000	5
Endosulfan sulfate	3185730000	3096410000	3144570000	3175940000	3412700000	3203070000	4
Endrin	3544350000	3400630000	3391880000	3322590000	3416420000	3415180000	2
Endrin aldehyde	2503120000	2458460000	2511530000	2573510000	2826400000	2574600000	6
Endrin ketone	3433620000	3341030000	3388420000	3397950000	3554790000	3423160000	2
gamma-BHC (Lindane)	4951240000	4675430000	4617130000	4438320000	4331460000	4602720000	5
gamma-Chlordane	4124290000	3949610000	3951400000	3878720000	4040730000	3988950000	2
Heptachlor	4681230000	4453430000	4445350000	4335710000	4440380000	4471220000	3
Heptachlor epoxide	4018350000	3865780000	3896760000	3892850000	4172720000	3969290000	3
Methoxychlor	1605530000	1584480000	1642420000	1697880000	1822460000	1670550000	6
Tetrachloro-m-xylene	2149340000	2072320000	2122010000	2161140000	2313950000	2163750000	4

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Instrument ID: ECD_D **Calibration Date(s):** 05/19/2025 05/19/2025

Calibration Times: 11:31 12:25

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

LAB FILE ID: **CF 100 =** PD088586.D **CF 075 =** PD088587.D

CF 050 = PD088588.D **CF 025 =** PD088589.D **CF 005 =** PD088590.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	16063600000	16170400000	16726900000	17873500000	20127100000	17392300000	10
4,4'-DDE	19308600000	19422500000	20046800000	21437600000	24298000000	20902700000	10
4,4'-DDT	17279500000	17314500000	17782900000	18728300000	19581500000	18137300000	6
Aldrin	20429300000	20424000000	21187100000	22461000000	25147900000	21929900000	9
alpha-BHC	22814100000	22470400000	23262900000	24245000000	26726300000	23903700000	7
alpha-Chlordane	19049500000	19079200000	19770800000	21135500000	24089000000	20624800000	10
beta-BHC	8864520000	8872030000	9302460000	10011600000	11658900000	9741890000	12
Decachlorobiphenyl	16504300000	16618500000	17317300000	18707400000	22133900000	18256300000	13
delta-BHC	21126000000	20875000000	21573100000	22598000000	25298500000	22294100000	8
Dieldrin	19383000000	19454300000	20211700000	21634500000	24536100000	21043900000	10
Endosulfan I	17297300000	17455200000	18206500000	19567700000	22365500000	18978400000	11
Endosulfan II	16670500000	16849700000	17581300000	18878300000	21629100000	18321800000	11
Endosulfan sulfate	16098100000	16280100000	16999000000	18309500000	21092700000	17755900000	12
Endrin	17557800000	17708400000	18459500000	19851800000	22842600000	19284000000	11
Endrin aldehyde	12431500000	12681500000	13251800000	14445500000	16833500000	13928800000	13
Endrin ketone	17469300000	17778800000	18605700000	20062800000	22820400000	19347400000	11
gamma-BHC (Lindane)	21035300000	20781600000	21450400000	22534500000	25026800000	22165700000	8
gamma-Chlordane	19824600000	19800200000	20463700000	21793000000	24778500000	21332000000	10
Heptachlor	20762900000	20801500000	21647900000	23011300000	26050900000	22454900000	10
Heptachlor epoxide	18126800000	18251100000	19076900000	20442600000	23459100000	19871300000	11
Methoxychlor	8571980000	8801040000	9285240000	10058400000	11157300000	9574790000	11
Tetrachloro-m-xylene	14104900000	13970700000	14552300000	15457700000	17548700000	15126900000	10

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Instrument ID: ECD_D **Date(s) Analyzed:** 05/19/2025 05/19/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	500	1	6.24	6.14	6.34	26389700
		2	6.44	6.34	6.54	38119600
		3	7.15	7.05	7.25	72288300
		4	7.57	7.47	7.67	91412700
		5	7.93	7.83	8.03	52259600

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Instrument ID: ECD_D **Date(s) Analyzed:** 05/19/2025 05/19/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	500	1	5.48	5.38	5.58	139231000
		2	5.65	5.55	5.75	94078800
		3	6.76	6.66	6.86	437083000
		4	7.20	7.10	7.30	311285000
		5	7.33	7.23	7.43	216975000

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088586.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 11:31
Operator : AR\AJ
Sample : PSTDICC100
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC100

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 12:44:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 12:41:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.550	2.881	214.9E6	1410.5E6	100.640	98.439
28)	SA Decachlor...	9.076	8.076	317.2E6	1650.4E6	97.585	97.596
	Target Compounds						
2)	A alpha-BHC	4.000	3.394	524.4E6	2281.4E6	103.930	99.026
3)	MA gamma-BHC...	4.331	3.731	495.1E6	2103.5E6	103.492	99.023
4)	MA Heptachlor	4.931	4.085	468.1E6	2076.3E6	102.584	97.913
5)	MB Aldrin	5.273	4.371	459.6E6	2042.9E6	102.512	98.179
6)	B beta-BHC	4.516	4.027	176.6E6	886.5E6	100.163	97.589
7)	B delta-BHC	4.765	4.264	458.1E6	2112.6E6	104.014	98.953
8)	B Heptachlo...	5.693	4.875	401.8E6	1812.7E6	101.536	97.446
9)	A Endosulfan I	6.077	5.250	380.1E6	1729.7E6	101.233	97.439
10)	B gamma-Chl...	5.948	5.128	412.4E6	1982.5E6	102.141	98.414
11)	B alpha-Chl...	6.029	5.193	407.7E6	1904.9E6	101.529	98.142
12)	B 4,4'-DDE	6.198	5.378	377.5E6	1930.9E6	102.541	98.124
13)	MA Dieldrin	6.349	5.515	416.9E6	1938.3E6	102.216	97.907
14)	MA Endrin	6.576	5.792	354.4E6	1755.8E6	102.198	97.496
15)	B Endosulfa...	6.788	6.083	342.5E6	1667.1E6	100.933	97.341
16)	A 4,4'-DDD	6.707	5.932	291.4E6	1606.4E6	102.370	97.977
17)	MA 4,4'-DDT	7.023	6.187	325.9E6	1728.0E6	102.124	98.564
18)	B Endrin al...	6.917	6.261	250.3E6	1243.2E6	99.832	96.806
19)	B Endosulfa...	7.152	6.485	318.6E6	1609.8E6	100.650	97.278
20)	A Methoxychlor	7.495	6.757	160.6E6	857.2E6	98.864	96.006
21)	B Endrin ke...	7.632	6.994	343.4E6	1746.9E6	100.663	96.850
22)	Mirex	8.117	7.189	240.8E6	1351.3E6	97.999	96.782

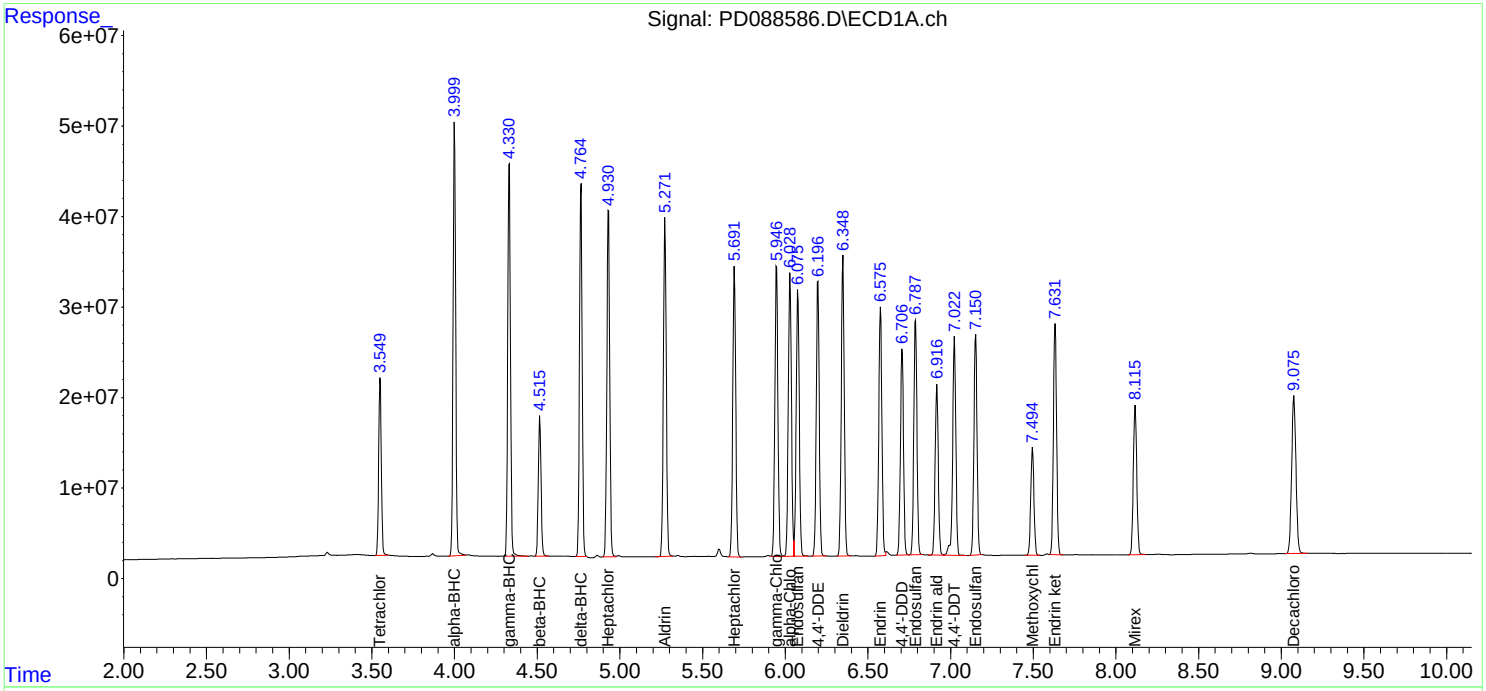
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

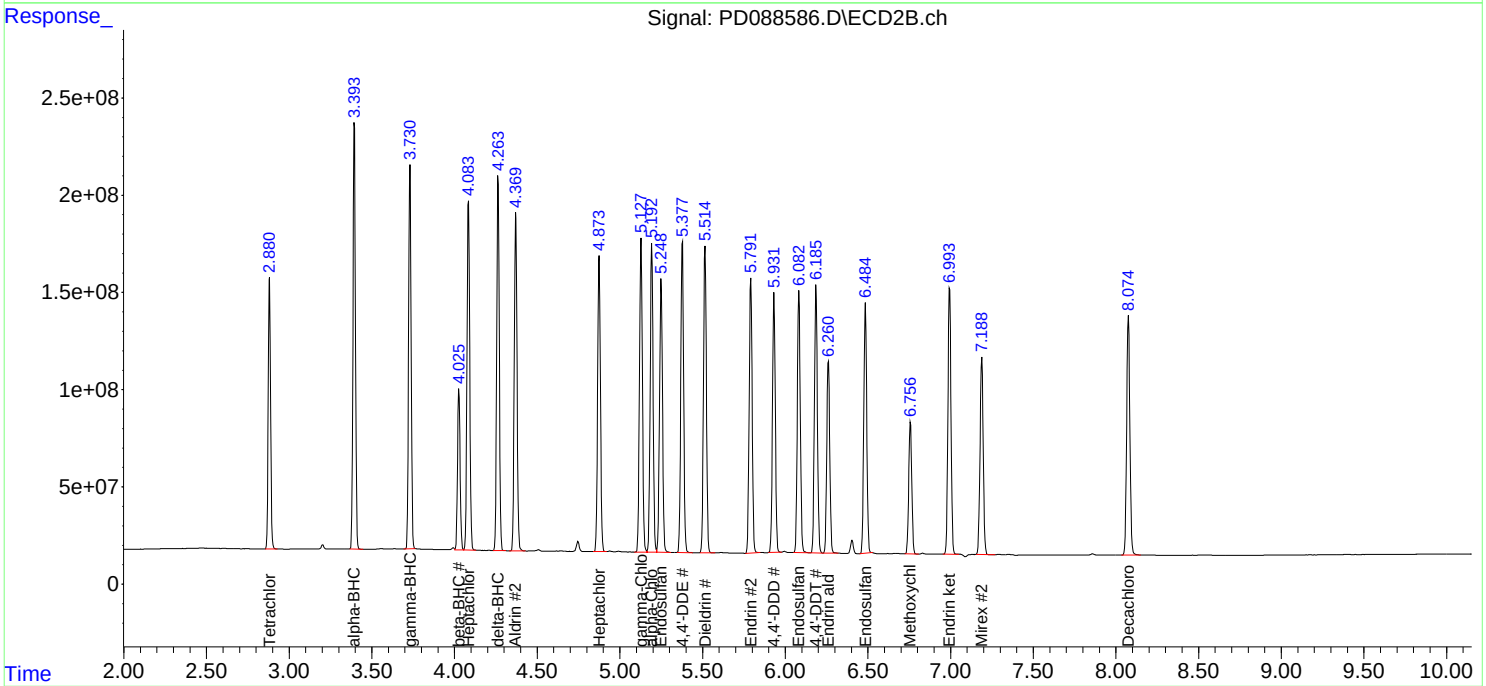
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088586.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 11:31
Operator : AR\AJ
Sample : PSTDICC100
Misc :
ALS Vial : 5 Sample Multiplier: 1

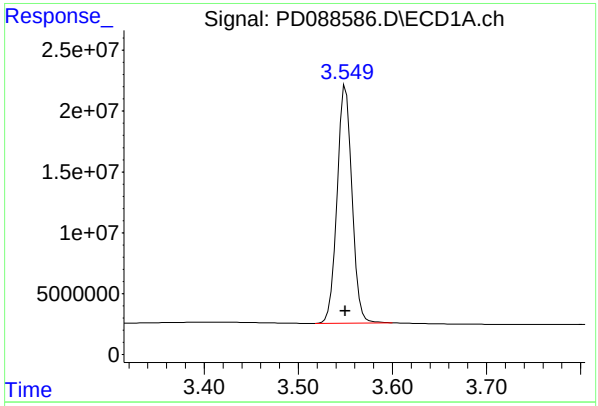
Instrument :
ECD_D
ClientSampleId :
PSTDICC100

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 12:44:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 12:41:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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



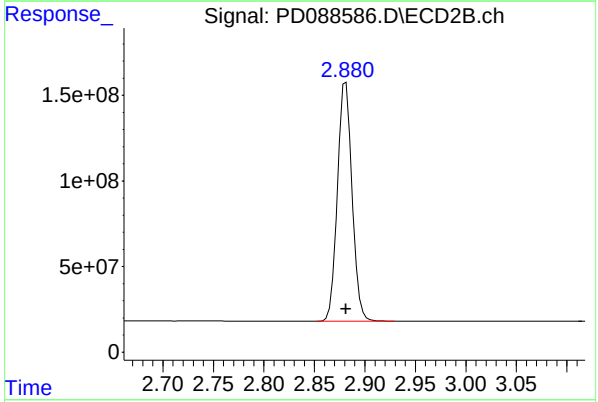




#1 Tetrachloro-m-xylene

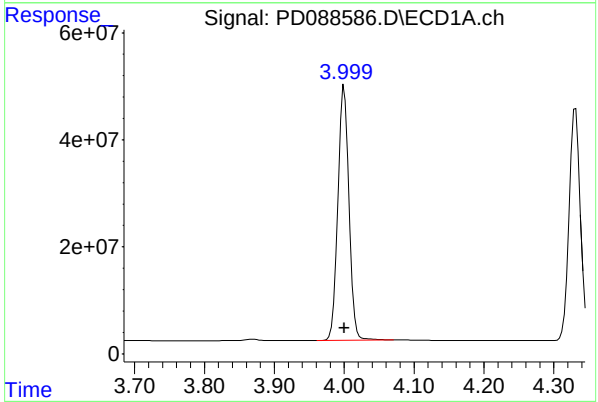
R.T.: 3.550 min
Delta R.T.: 0.000 min
Response: 214933507
Conc: 100.64 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100



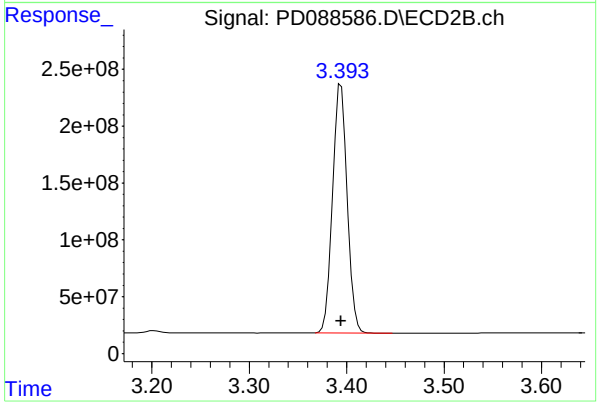
#1 Tetrachloro-m-xylene

R.T.: 2.881 min
Delta R.T.: 0.000 min
Response: 1410491055
Conc: 98.44 ng/ml



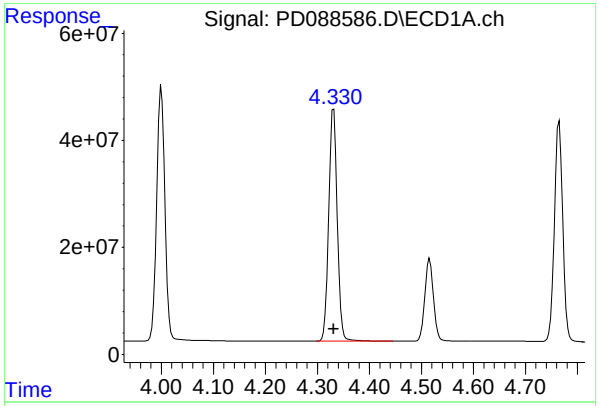
#2 alpha-BHC

R.T.: 4.000 min
Delta R.T.: 0.000 min
Response: 524383770
Conc: 103.93 ng/ml



#2 alpha-BHC

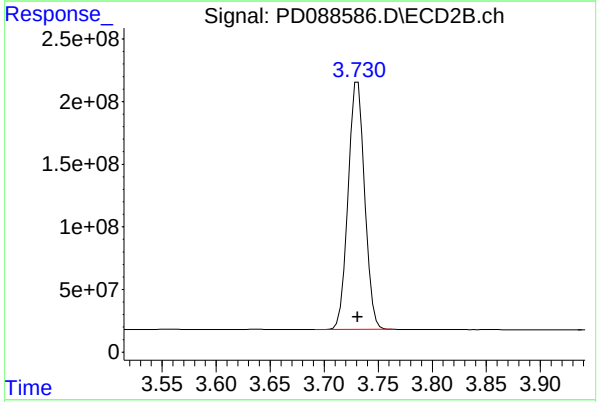
R.T.: 3.394 min
Delta R.T.: 0.000 min
Response: 2281405491
Conc: 99.03 ng/ml



#3 gamma-BHC (Lindane)

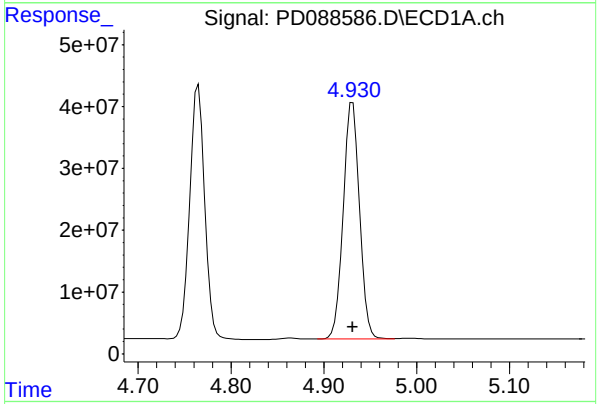
R.T.: 4.331 min
Delta R.T.: 0.000 min
Response: 495123747
Conc: 103.49 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100



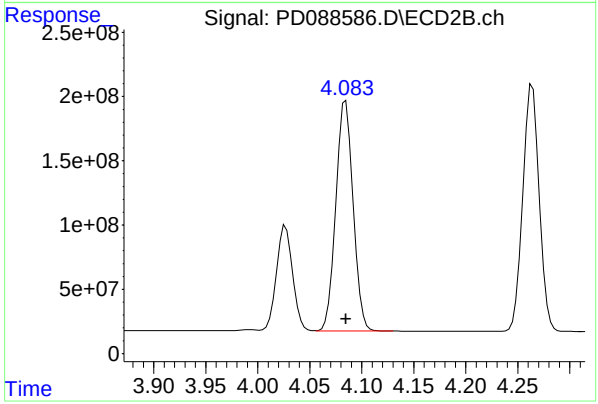
#3 gamma-BHC (Lindane)

R.T.: 3.731 min
Delta R.T.: 0.000 min
Response: 2103526537
Conc: 99.02 ng/ml



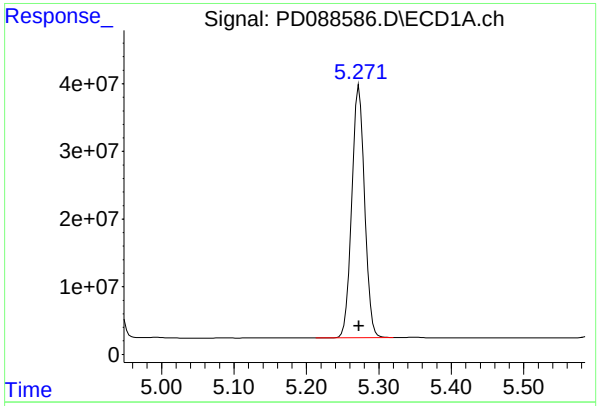
#4 Heptachlor

R.T.: 4.931 min
Delta R.T.: 0.000 min
Response: 468122825
Conc: 102.58 ng/ml



#4 Heptachlor

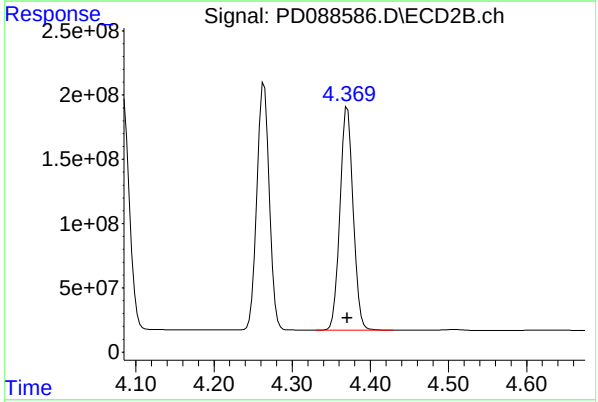
R.T.: 4.085 min
Delta R.T.: 0.000 min
Response: 2076285185
Conc: 97.91 ng/ml



#5 Aldrin

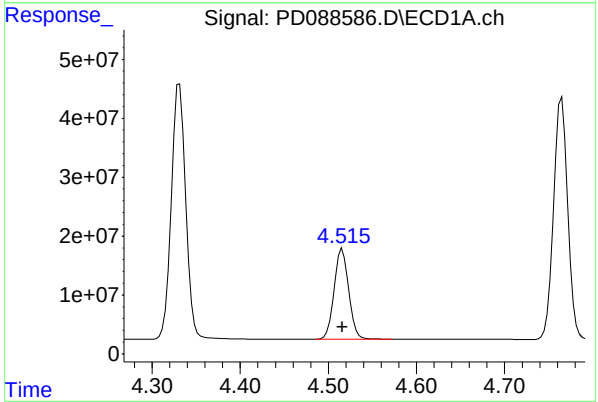
R.T.: 5.273 min
Delta R.T.: 0.000 min
Response: 459632325
Conc: 102.51 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100



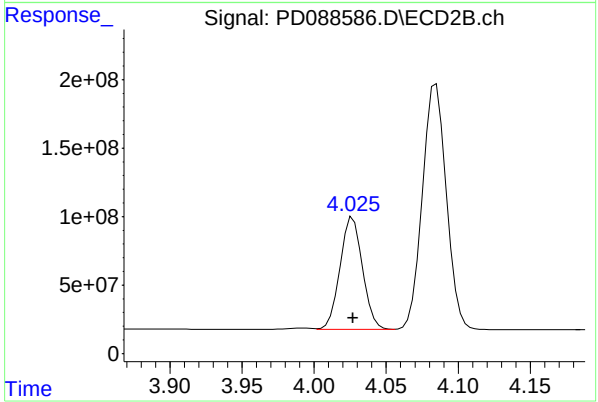
#5 Aldrin

R.T.: 4.371 min
Delta R.T.: 0.000 min
Response: 2042933624
Conc: 98.18 ng/ml



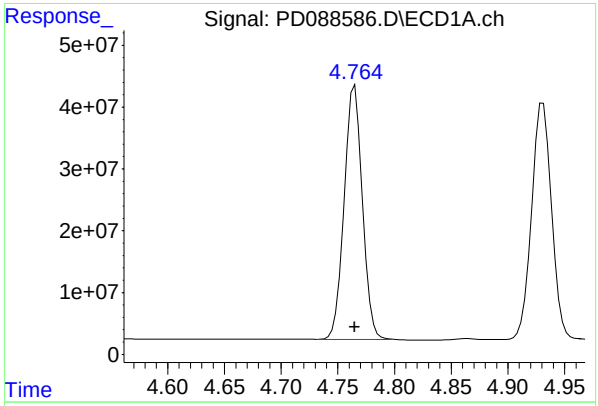
#6 beta-BHC

R.T.: 4.516 min
Delta R.T.: 0.000 min
Response: 176609110
Conc: 100.16 ng/ml



#6 beta-BHC

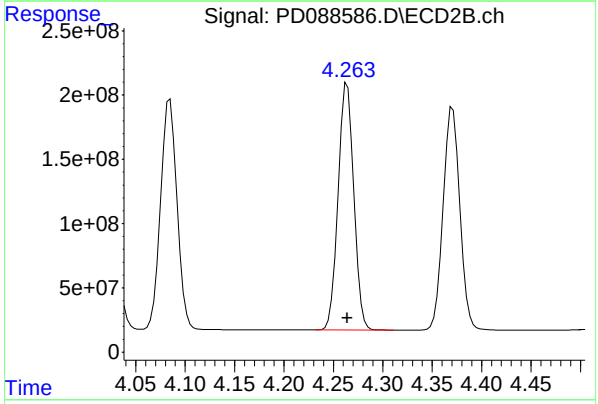
R.T.: 4.027 min
Delta R.T.: 0.000 min
Response: 886452440
Conc: 97.59 ng/ml



#7 delta-BHC

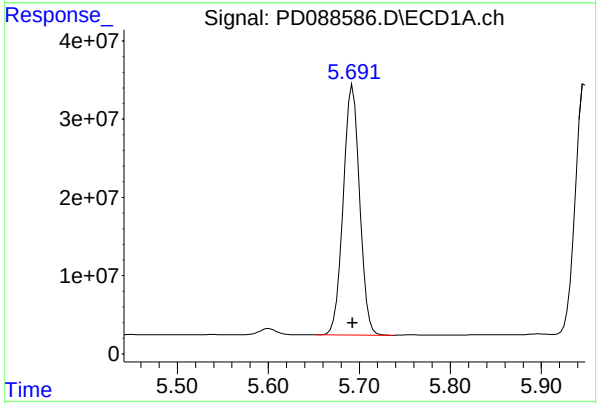
R.T.: 4.765 min
Delta R.T.: 0.000 min
Response: 458134491
Conc: 104.01 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100



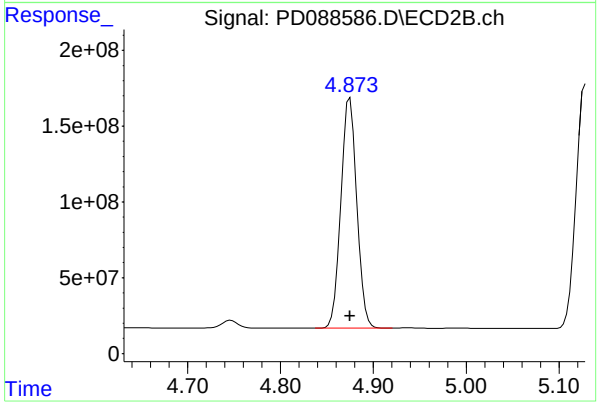
#7 delta-BHC

R.T.: 4.264 min
Delta R.T.: 0.000 min
Response: 2112595875
Conc: 98.95 ng/ml



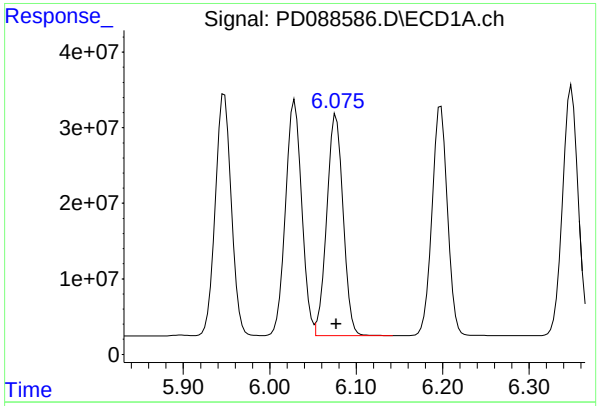
#8 Heptachlor epoxide

R.T.: 5.693 min
Delta R.T.: 0.000 min
Response: 401834605
Conc: 101.54 ng/ml



#8 Heptachlor epoxide

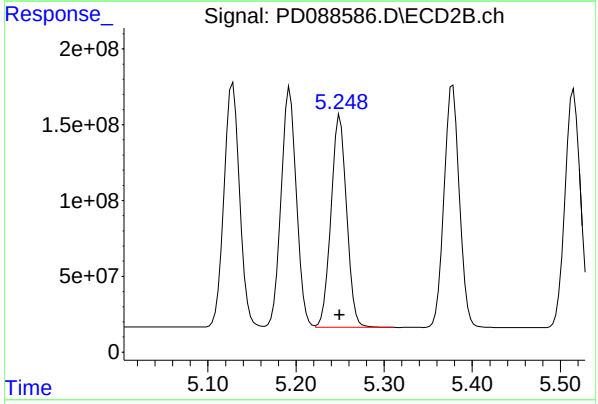
R.T.: 4.875 min
Delta R.T.: 0.000 min
Response: 1812681918
Conc: 97.45 ng/ml



#9 Endosulfan I

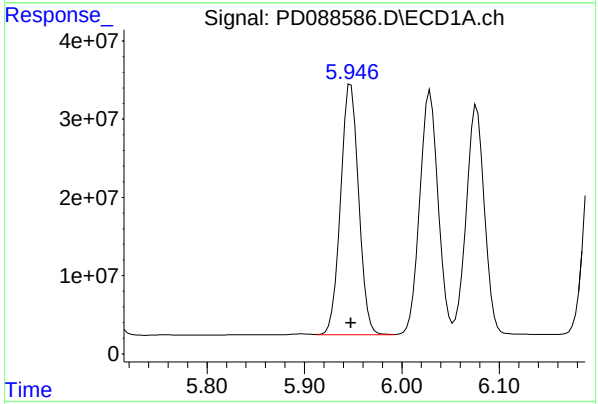
R.T.: 6.077 min
Delta R.T.: 0.000 min
Response: 380135184
Conc: 101.23 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100



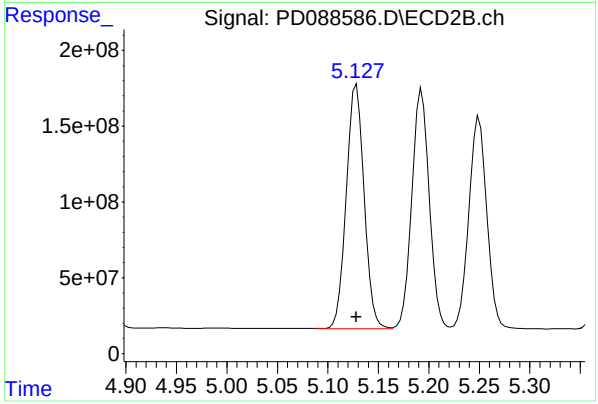
#9 Endosulfan I

R.T.: 5.250 min
Delta R.T.: 0.000 min
Response: 1729729348
Conc: 97.44 ng/ml



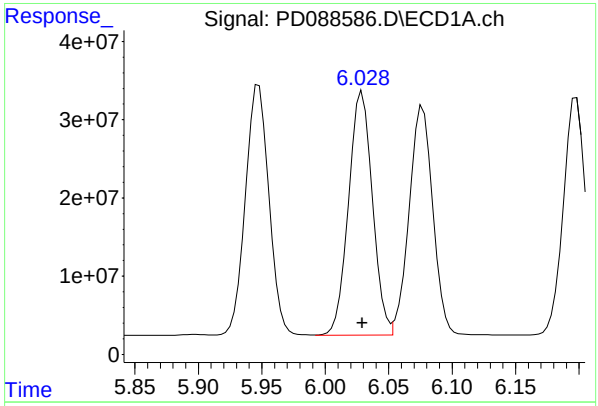
#10 gamma-Chlordane

R.T.: 5.948 min
Delta R.T.: 0.000 min
Response: 412429126
Conc: 102.14 ng/ml



#10 gamma-Chlordane

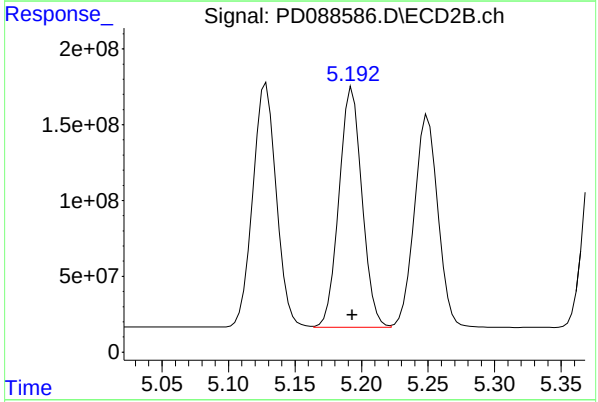
R.T.: 5.128 min
Delta R.T.: 0.000 min
Response: 1982458346
Conc: 98.41 ng/ml



#11 alpha-Chlordane

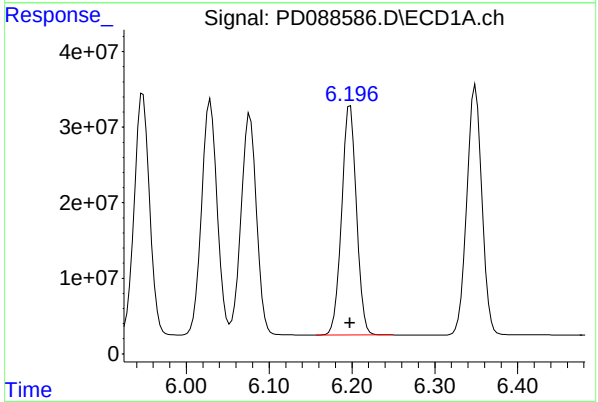
R.T.: 6.029 min
Delta R.T.: 0.000 min
Response: 407661917
Conc: 101.53 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100



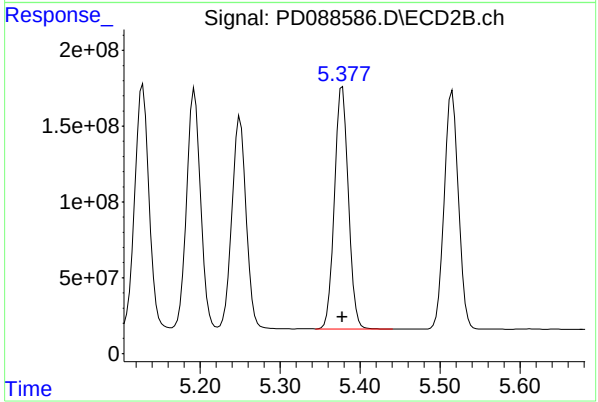
#11 alpha-Chlordane

R.T.: 5.193 min
Delta R.T.: 0.000 min
Response: 1904947790
Conc: 98.14 ng/ml



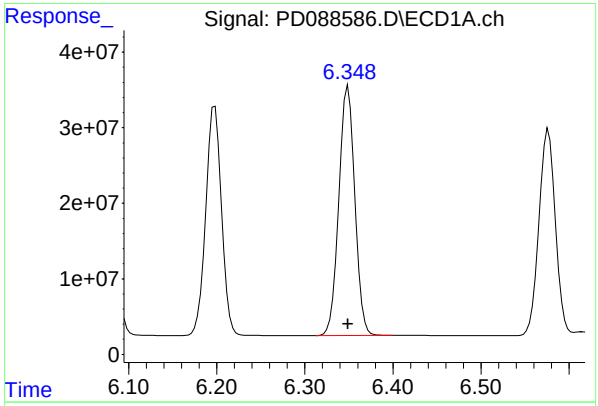
#12 4,4'-DDE

R.T.: 6.198 min
Delta R.T.: 0.000 min
Response: 377498466
Conc: 102.54 ng/ml



#12 4,4'-DDE

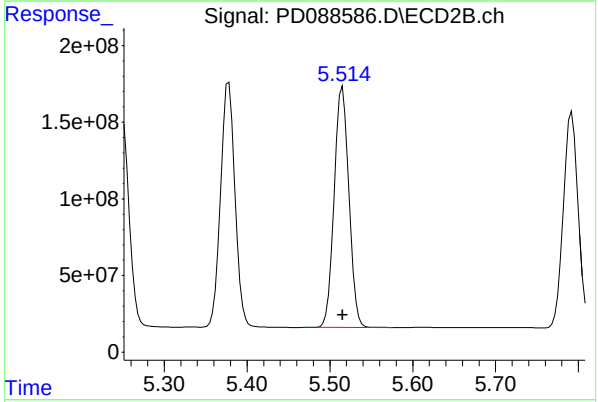
R.T.: 5.378 min
Delta R.T.: 0.000 min
Response: 1930863963
Conc: 98.12 ng/ml



#13 Dieldrin

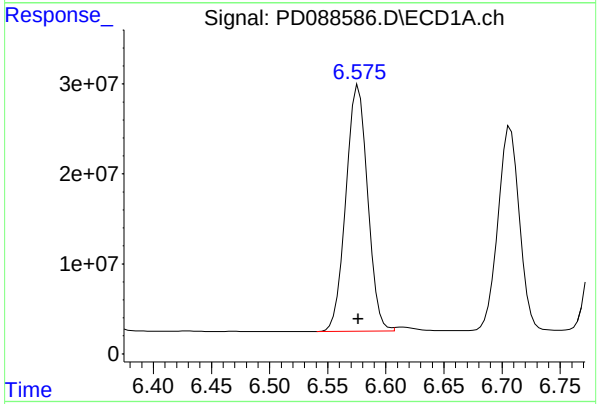
R.T.: 6.349 min
Delta R.T.: 0.000 min
Response: 416864139
Conc: 102.22 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100



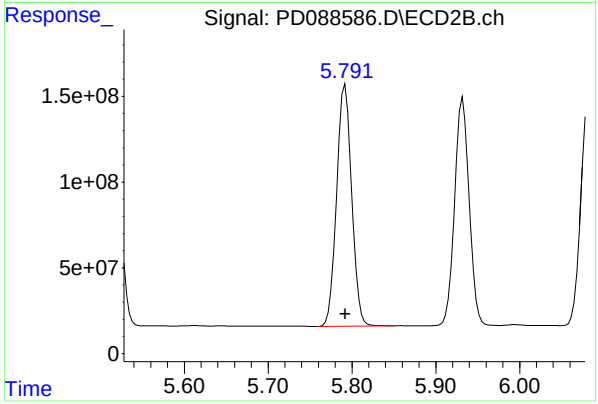
#13 Dieldrin

R.T.: 5.515 min
Delta R.T.: 0.000 min
Response: 1938299009
Conc: 97.91 ng/ml



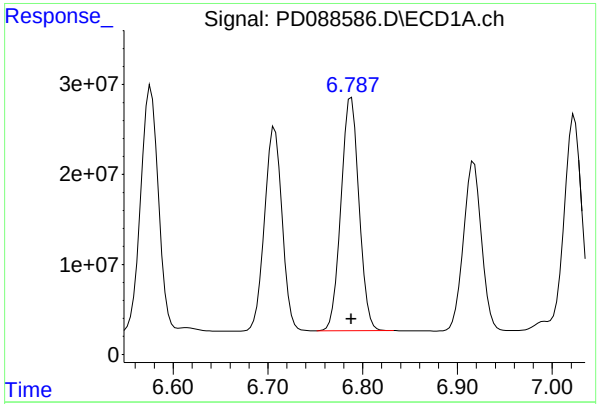
#14 Endrin

R.T.: 6.576 min
Delta R.T.: 0.000 min
Response: 354435301
Conc: 102.20 ng/ml



#14 Endrin

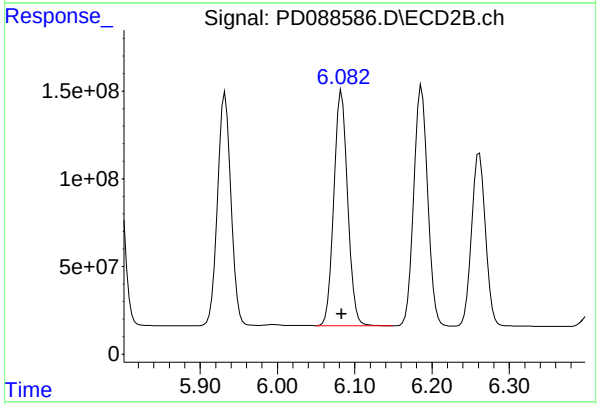
R.T.: 5.792 min
Delta R.T.: 0.000 min
Response: 1755775516
Conc: 97.50 ng/ml



#15 Endosulfan II

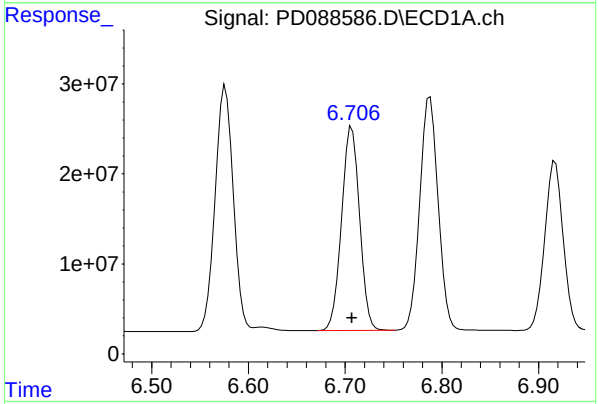
R.T.: 6.788 min
Delta R.T.: 0.000 min
Response: 342479976
Conc: 100.93 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100



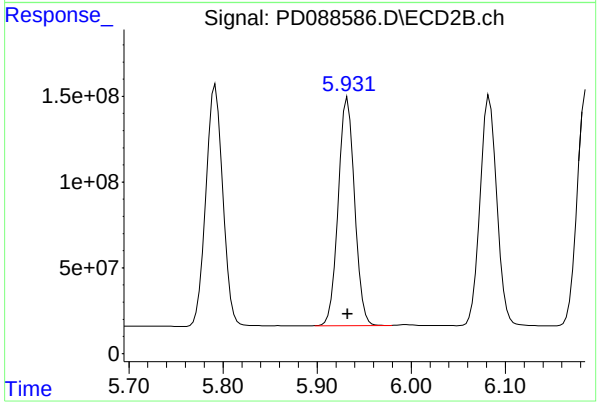
#15 Endosulfan II

R.T.: 6.083 min
Delta R.T.: 0.000 min
Response: 1667052246
Conc: 97.34 ng/ml



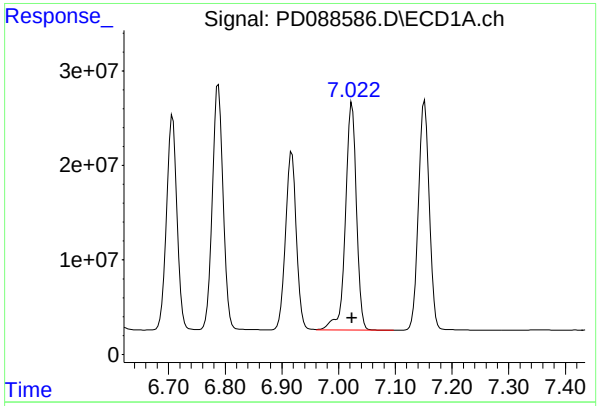
#16 4,4'-DDD

R.T.: 6.707 min
Delta R.T.: 0.000 min
Response: 291408671
Conc: 102.37 ng/ml



#16 4,4'-DDD

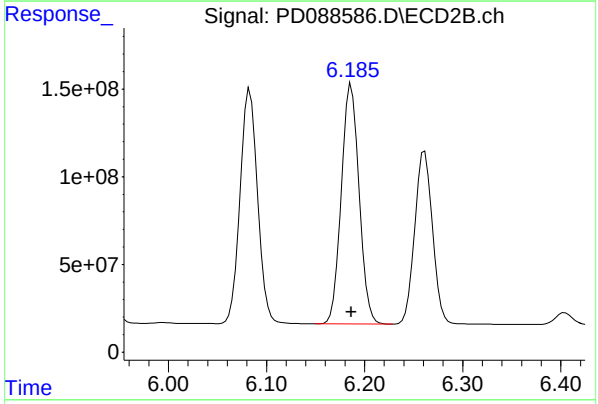
R.T.: 5.932 min
Delta R.T.: 0.000 min
Response: 1606361441
Conc: 97.98 ng/ml



#17 4,4'-DDT

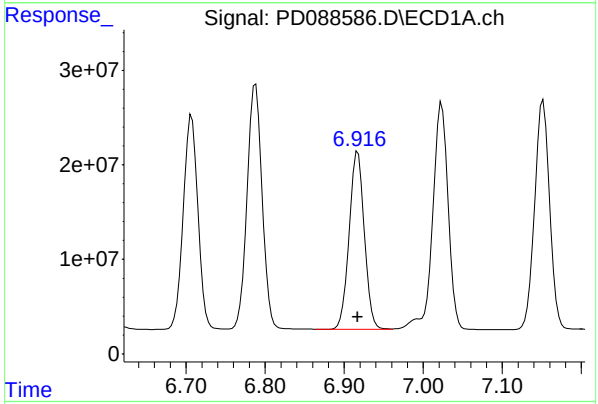
R.T.: 7.023 min
Delta R.T.: 0.000 min
Response: 325937800
Conc: 102.12 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100



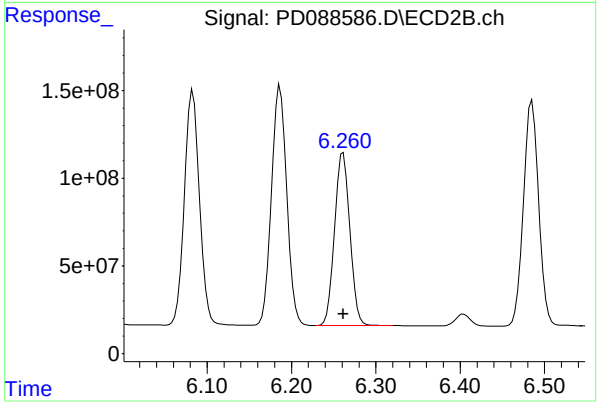
#17 4,4'-DDT

R.T.: 6.187 min
Delta R.T.: 0.000 min
Response: 1727951580
Conc: 98.56 ng/ml



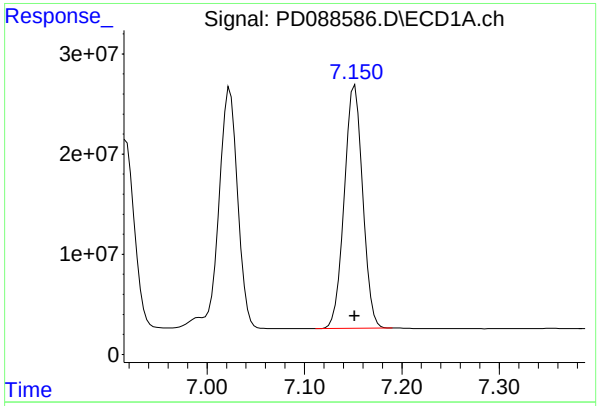
#18 Endrin aldehyde

R.T.: 6.917 min
Delta R.T.: 0.000 min
Response: 250311824
Conc: 99.83 ng/ml



#18 Endrin aldehyde

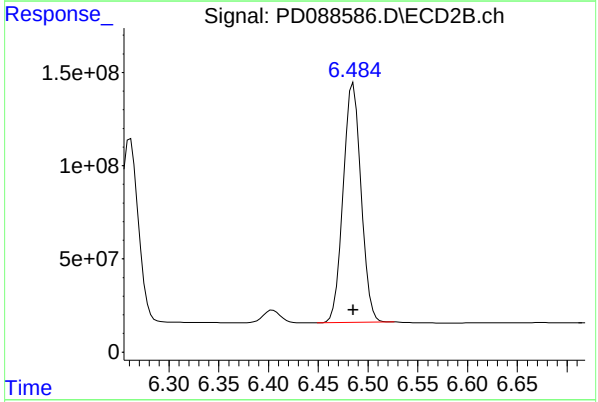
R.T.: 6.261 min
Delta R.T.: 0.000 min
Response: 1243151075
Conc: 96.81 ng/ml



#19 Endosulfan Sulfate

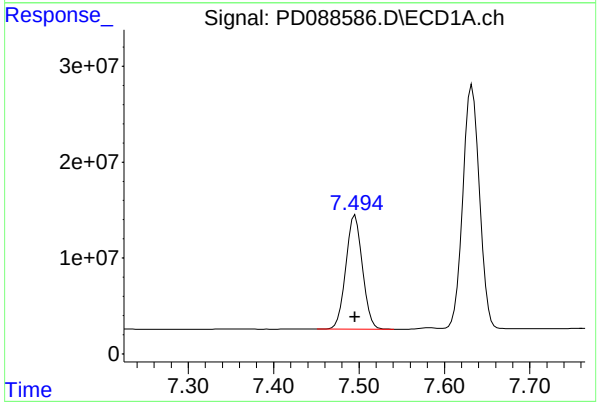
R.T.: 7.152 min
Delta R.T.: 0.000 min
Response: 318573310
Conc: 100.65 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100



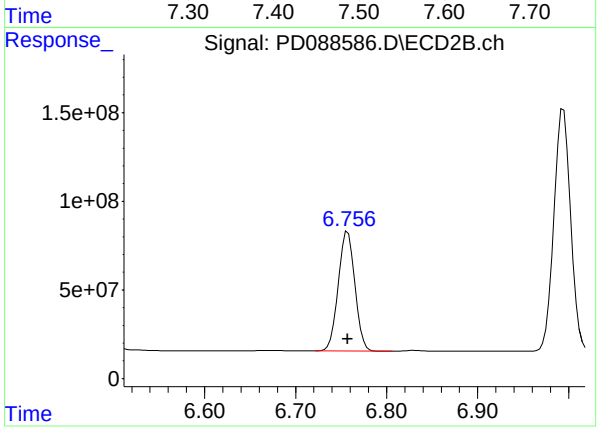
#19 Endosulfan Sulfate

R.T.: 6.485 min
Delta R.T.: 0.000 min
Response: 1609807606
Conc: 97.28 ng/ml



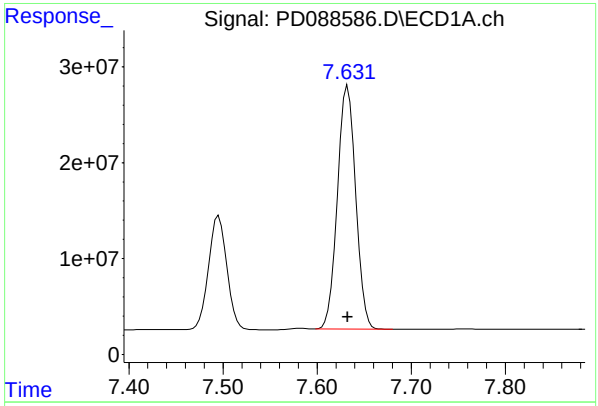
#20 Methoxychlor

R.T.: 7.495 min
Delta R.T.: 0.000 min
Response: 160552535
Conc: 98.86 ng/ml



#20 Methoxychlor

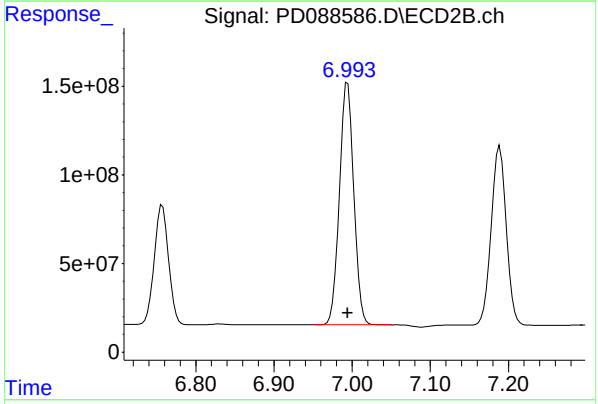
R.T.: 6.757 min
Delta R.T.: 0.000 min
Response: 857198352
Conc: 96.01 ng/ml



#21 Endrin ketone

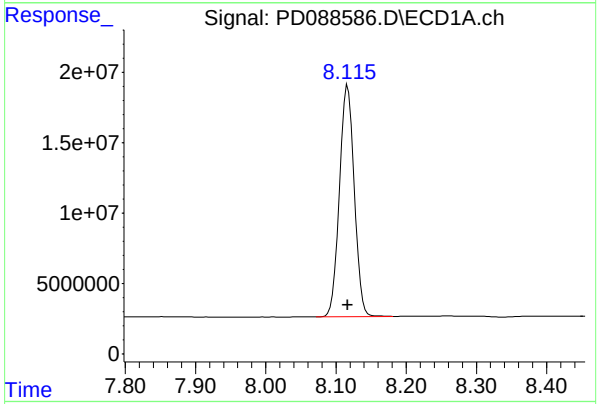
R.T.: 7.632 min
Delta R.T.: 0.000 min
Response: 343361845
Conc: 100.66 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100



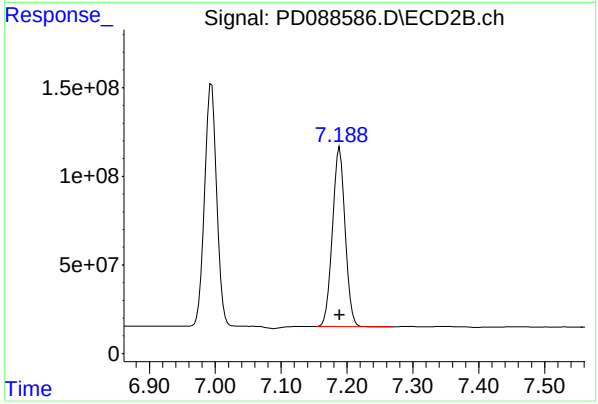
#21 Endrin ketone

R.T.: 6.994 min
Delta R.T.: 0.000 min
Response: 1746927961
Conc: 96.85 ng/ml



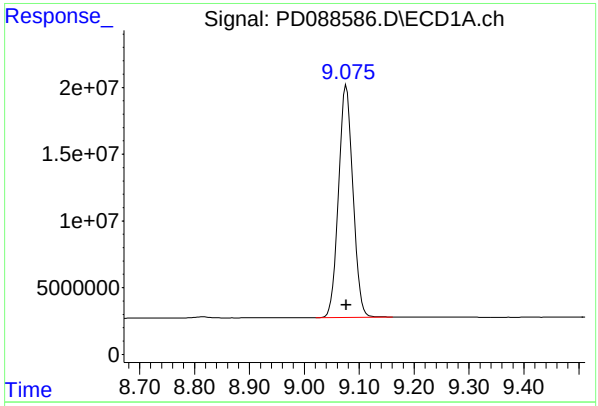
#22 Mirex

R.T.: 8.117 min
Delta R.T.: 0.000 min
Response: 240795510
Conc: 98.00 ng/ml



#22 Mirex

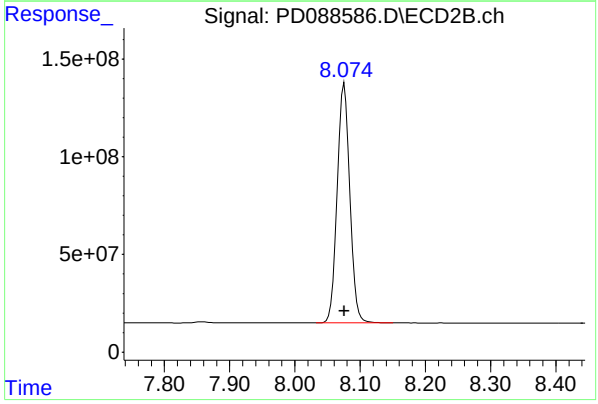
R.T.: 7.189 min
Delta R.T.: 0.000 min
Response: 1351317079
Conc: 96.78 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.076 min
Delta R.T.: 0.000 min
Response: 317174991
Conc: 97.58 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 1650432485
Conc: 97.60 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088587.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 11:45
Operator : AR\AJ
Sample : PSTDICC075
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC075

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 12:46:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 12:41:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1) SA	Tetrachlo...	3.551	2.882	155.4E6	1047.8E6	73.502	73.741
28) SA	Decachlor...	9.077	8.076	236.6E6	1246.4E6	73.507	74.131
	Target Compounds						
2) A	alpha-BHC	4.000	3.394	369.6E6	1685.3E6	73.825	73.757
3) MA	gamma-BHC...	4.331	3.731	350.7E6	1558.6E6	73.855	73.906
4) MA	Heptachlor	4.931	4.084	334.0E6	1560.1E6	73.787	74.042
5) MB	Aldrin	5.273	4.371	328.7E6	1531.8E6	73.861	74.071
6) B	beta-BHC	4.516	4.026	128.8E6	665.4E6	73.704	73.827
7) B	delta-BHC	4.765	4.263	322.6E6	1565.6E6	73.818	73.880
8) B	Heptachlo...	5.693	4.875	289.9E6	1368.8E6	73.832	74.051
9) A	Endosulfan I	6.077	5.249	275.8E6	1309.1E6	73.959	74.160
10) B	gamma-Chl...	5.948	5.128	296.2E6	1485.0E6	73.899	74.141
11) B	alpha-Chl...	6.029	5.193	294.6E6	1430.9E6	73.906	74.143
12) B	4,4'-DDE	6.198	5.378	270.8E6	1456.7E6	74.039	74.349
13) MA	Dieldrin	6.349	5.515	299.6E6	1459.1E6	73.975	74.129
14) MA	Endrin	6.577	5.792	255.0E6	1328.1E6	74.021	74.162
15) B	Endosulfa...	6.788	6.083	249.1E6	1263.7E6	73.931	74.189
16) A	4,4'-DDD	6.707	5.933	209.9E6	1212.8E6	74.159	74.311
17) MA	4,4'-DDT	7.023	6.186	234.4E6	1298.6E6	73.963	74.380
18) B	Endrin al...	6.917	6.262	184.4E6	951.1E6	74.019	74.374
19) B	Endosulfa...	7.151	6.485	232.2E6	1221.0E6	73.906	74.185
20) A	Methoxychlor	7.495	6.757	118.8E6	660.1E6	73.774	74.282
21) B	Endrin ke...	7.633	6.995	250.6E6	1333.4E6	73.967	74.279
22)	Mirex	8.117	7.189	179.6E6	1033.8E6	73.718	74.359

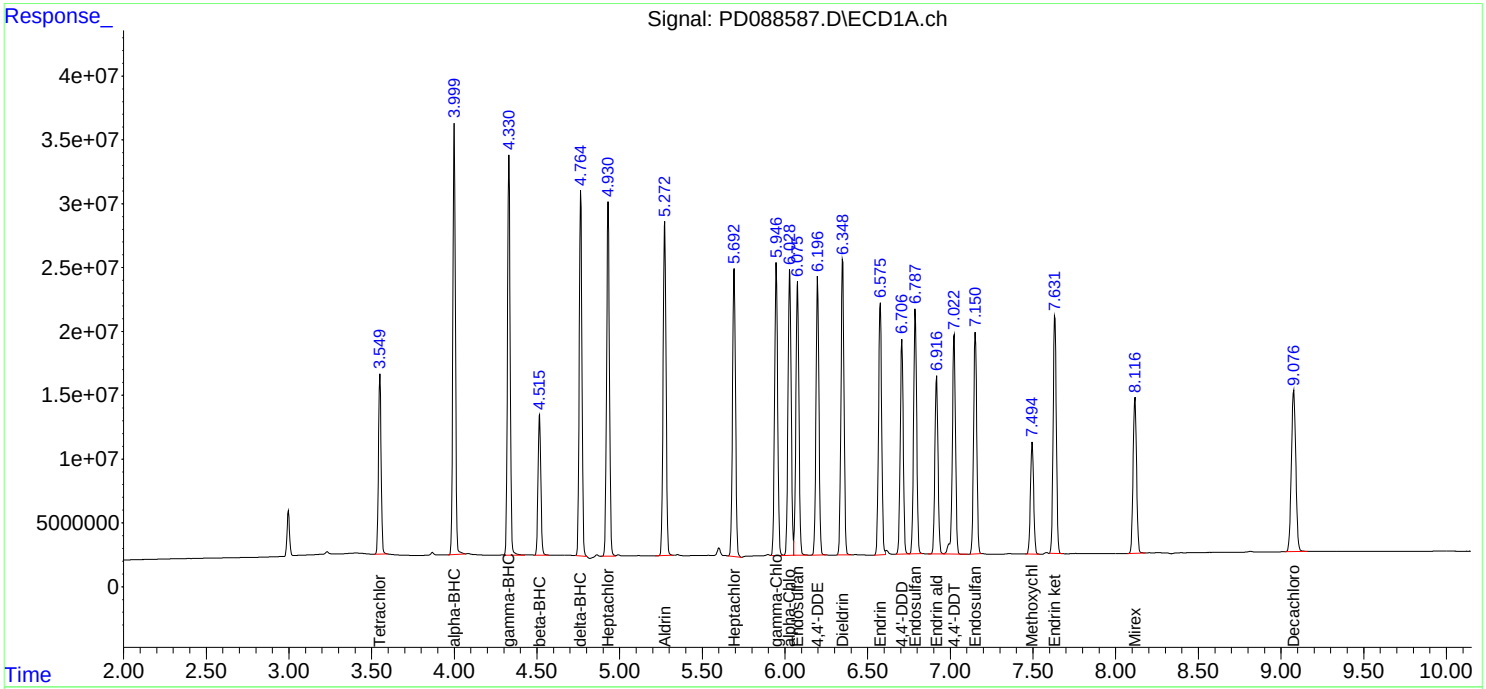
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

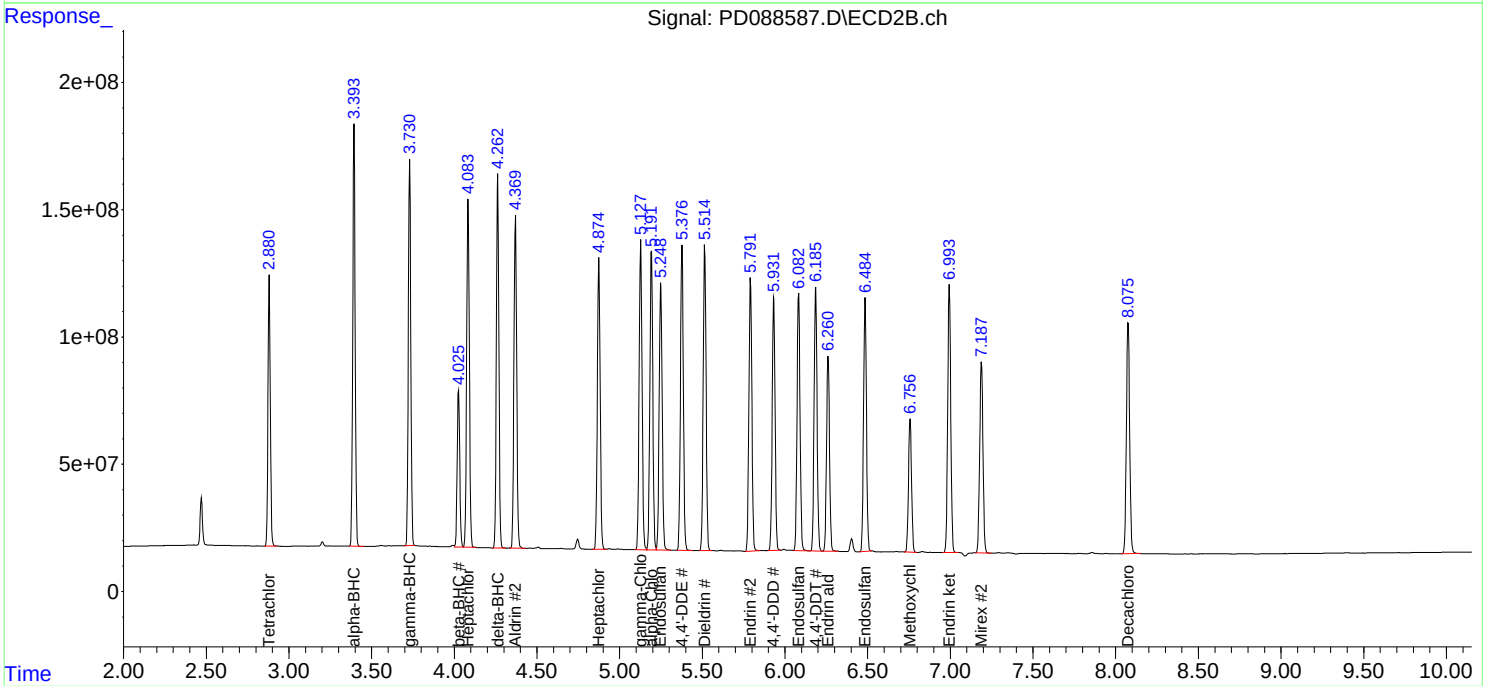
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088587.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 11:45
Operator : AR\AJ
Sample : PSTDICC075
Misc :
ALS Vial : 6 Sample Multiplier: 1

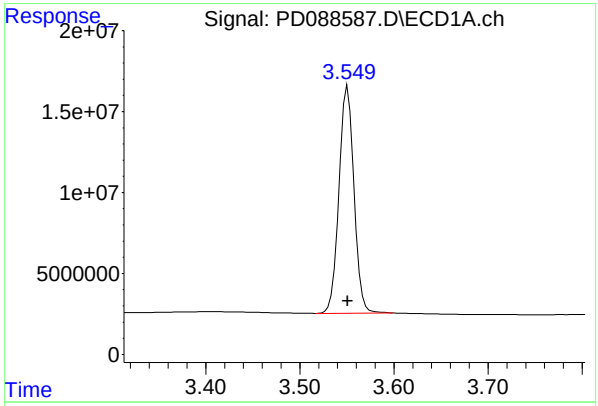
Instrument :
ECD_D
ClientSampleId :
PSTDICC075

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 12:46:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 12:41:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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



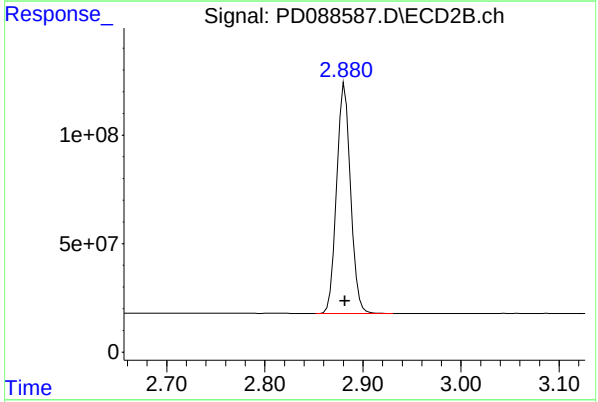




#1 Tetrachloro-m-xylene

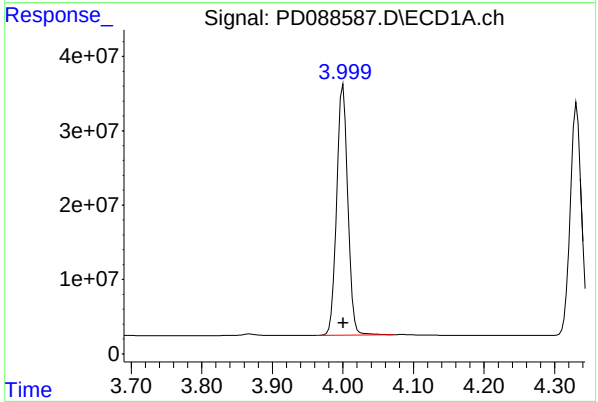
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 155423752
Conc: 73.50 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC075



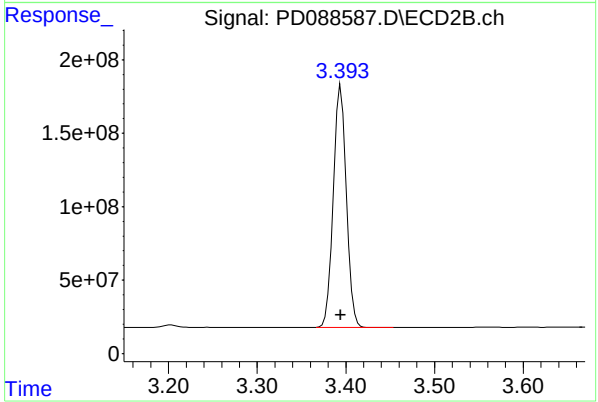
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 1047803785
Conc: 73.74 ng/ml



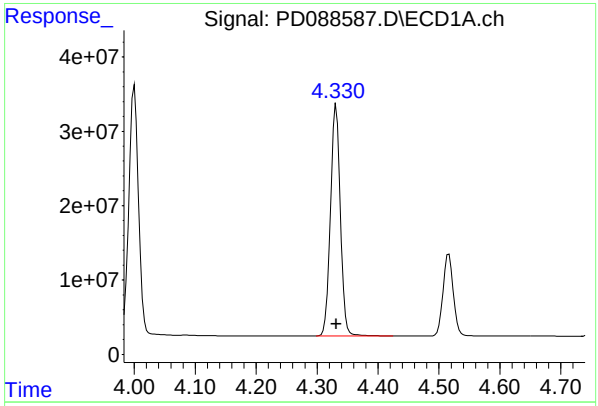
#2 alpha-BHC

R.T.: 4.000 min
Delta R.T.: 0.000 min
Response: 369592440
Conc: 73.82 ng/ml



#2 alpha-BHC

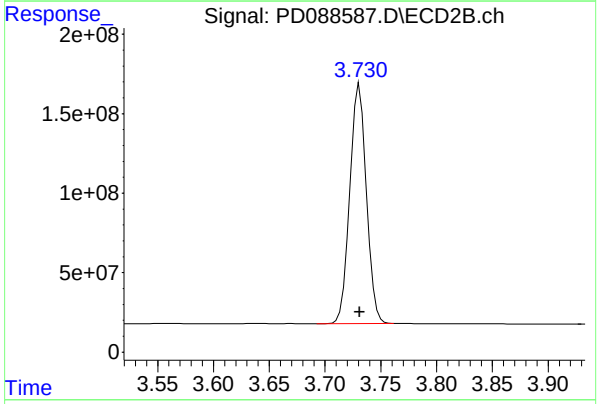
R.T.: 3.394 min
Delta R.T.: 0.000 min
Response: 1685282683
Conc: 73.76 ng/ml



#3 gamma-BHC (Lindane)

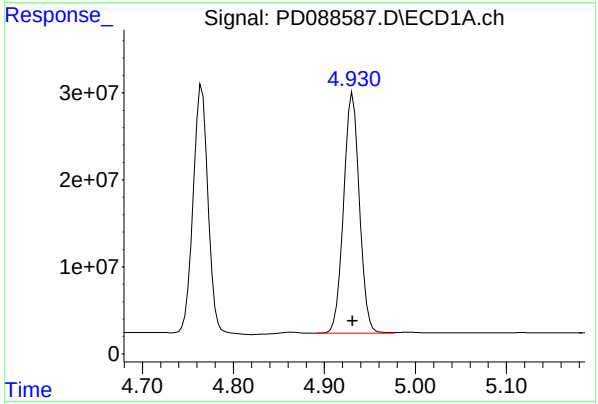
R.T.: 4.331 min
Delta R.T.: 0.000 min
Response: 350657312
Conc: 73.85 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC075



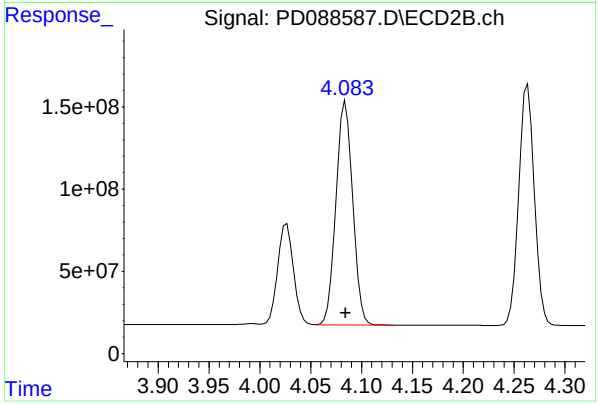
#3 gamma-BHC (Lindane)

R.T.: 3.731 min
Delta R.T.: 0.000 min
Response: 1558618058
Conc: 73.91 ng/ml



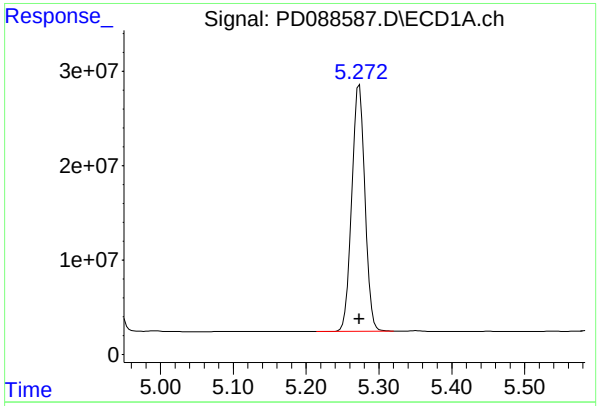
#4 Heptachlor

R.T.: 4.931 min
Delta R.T.: 0.000 min
Response: 334007221
Conc: 73.79 ng/ml



#4 Heptachlor

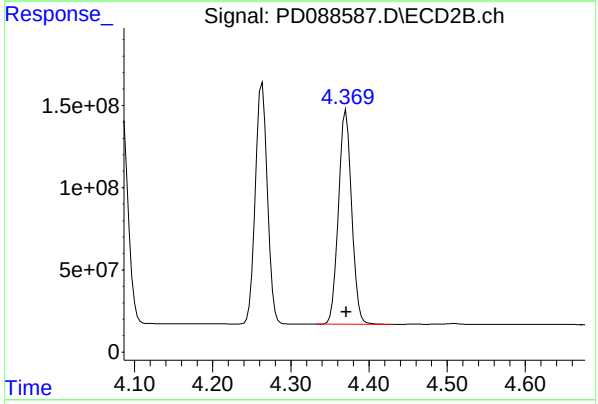
R.T.: 4.084 min
Delta R.T.: 0.000 min
Response: 1560114314
Conc: 74.04 ng/ml



#5 Aldrin

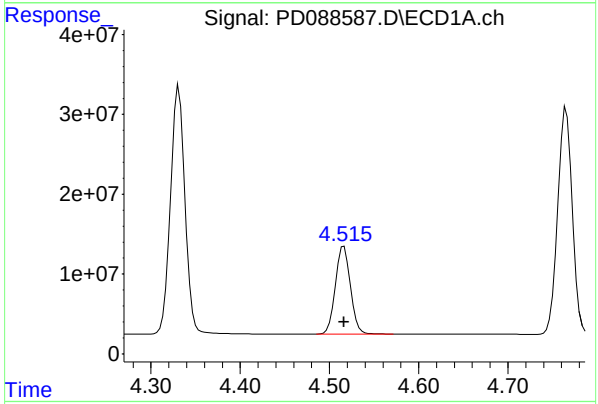
R.T.: 5.273 min
Delta R.T.: 0.000 min
Response: 328674296
Conc: 73.86 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC075



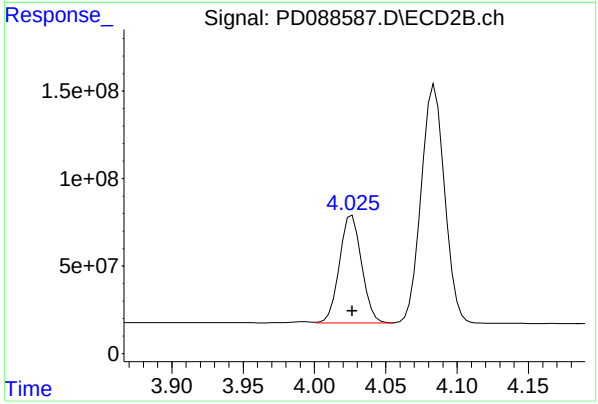
#5 Aldrin

R.T.: 4.371 min
Delta R.T.: 0.000 min
Response: 1531798209
Conc: 74.07 ng/ml



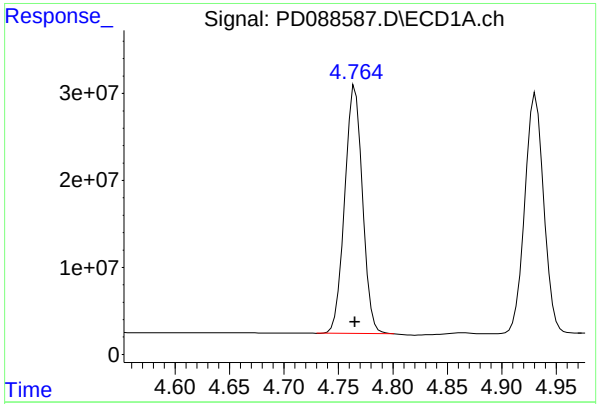
#6 beta-BHC

R.T.: 4.516 min
Delta R.T.: 0.000 min
Response: 128842432
Conc: 73.70 ng/ml



#6 beta-BHC

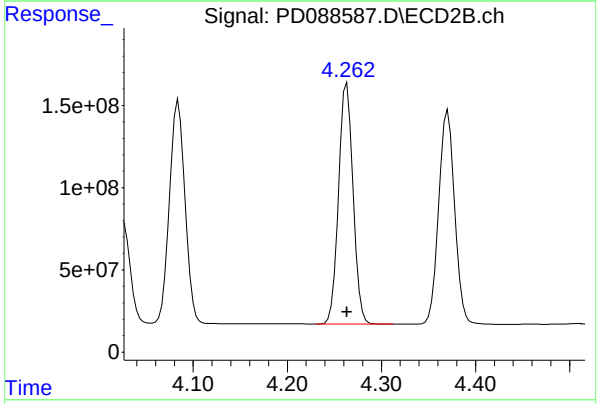
R.T.: 4.026 min
Delta R.T.: 0.000 min
Response: 665402171
Conc: 73.83 ng/ml



#7 delta-BHC

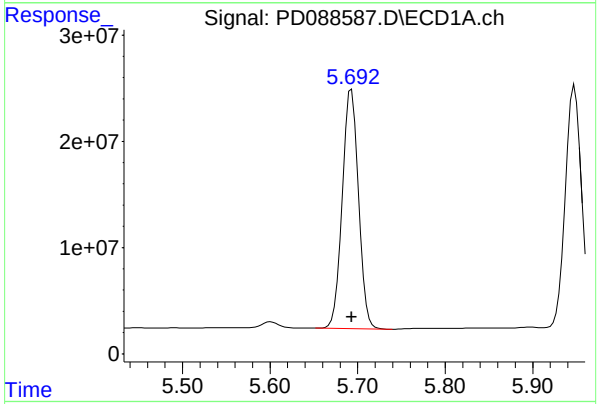
R.T.: 4.765 min
Delta R.T.: 0.000 min
Response: 322595797
Conc: 73.82 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC075



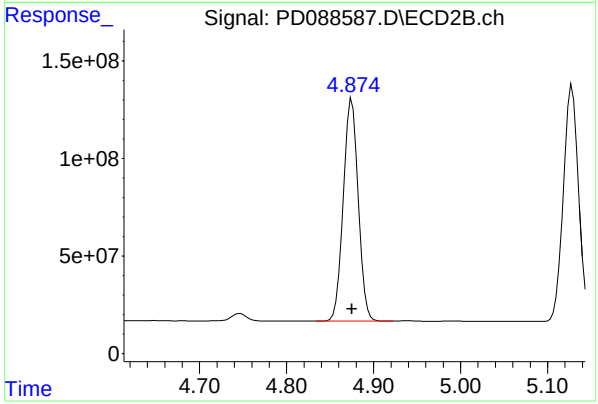
#7 delta-BHC

R.T.: 4.263 min
Delta R.T.: 0.000 min
Response: 1565622870
Conc: 73.88 ng/ml



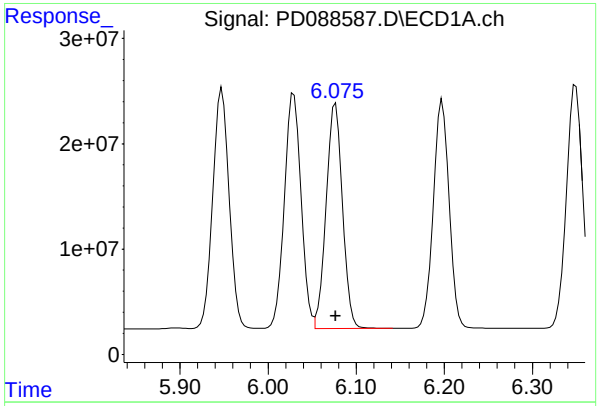
#8 Heptachlor epoxide

R.T.: 5.693 min
Delta R.T.: 0.000 min
Response: 289933817
Conc: 73.83 ng/ml



#8 Heptachlor epoxide

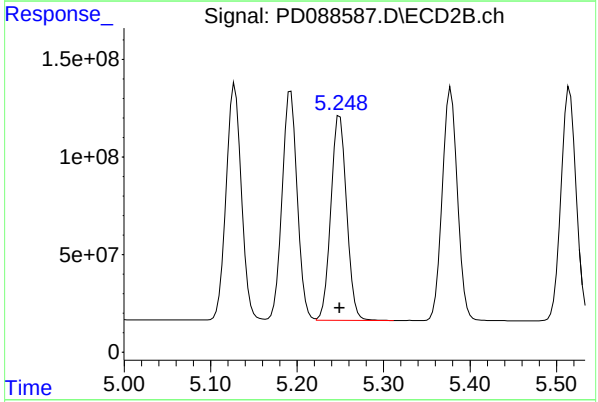
R.T.: 4.875 min
Delta R.T.: 0.000 min
Response: 1368835635
Conc: 74.05 ng/ml



#9 Endosulfan I

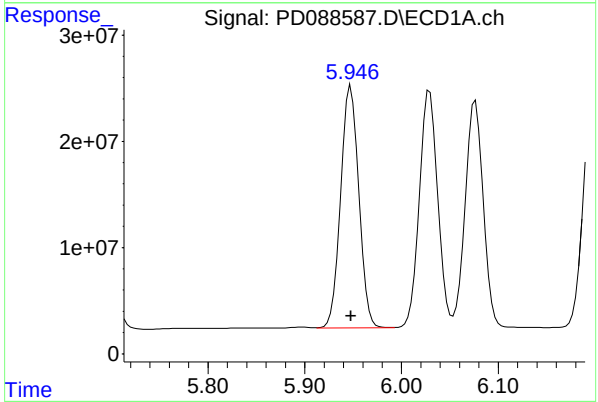
R.T.: 6.077 min
Delta R.T.: 0.000 min
Response: 275805071
Conc: 73.96 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC075



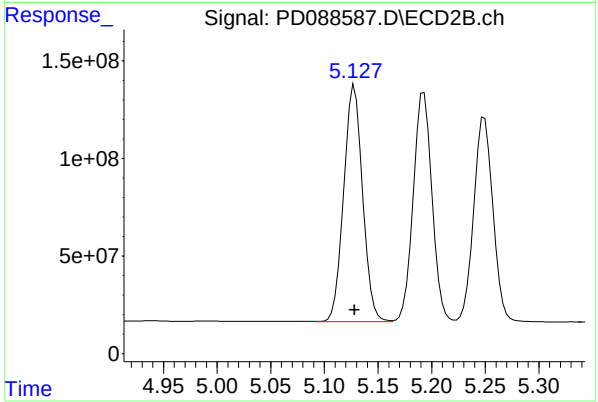
#9 Endosulfan I

R.T.: 5.249 min
Delta R.T.: 0.000 min
Response: 1309143560
Conc: 74.16 ng/ml



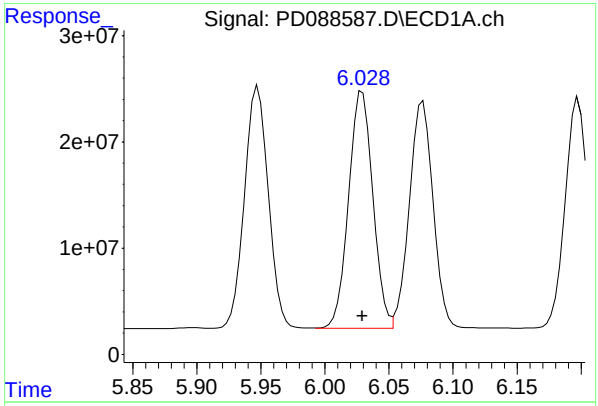
#10 gamma-Chlordane

R.T.: 5.948 min
Delta R.T.: 0.000 min
Response: 296220405
Conc: 73.90 ng/ml



#10 gamma-Chlordane

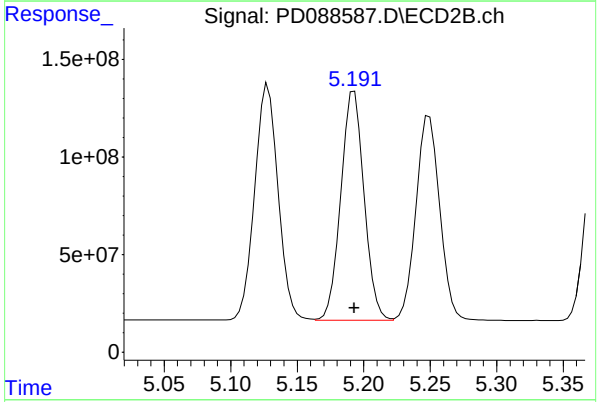
R.T.: 5.128 min
Delta R.T.: 0.000 min
Response: 1485014238
Conc: 74.14 ng/ml



#11 alpha-Chlordane

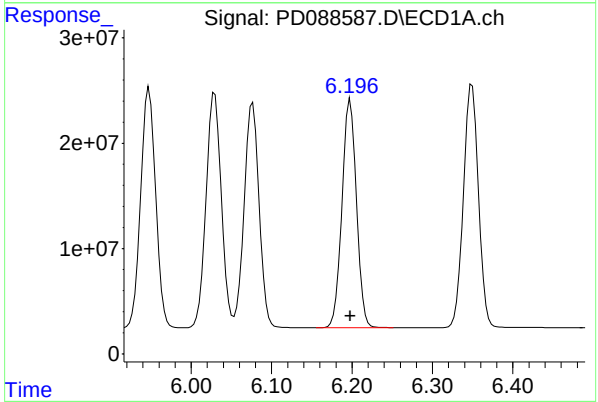
R.T.: 6.029 min
Delta R.T.: 0.000 min
Response: 294597343
Conc: 73.91 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC075



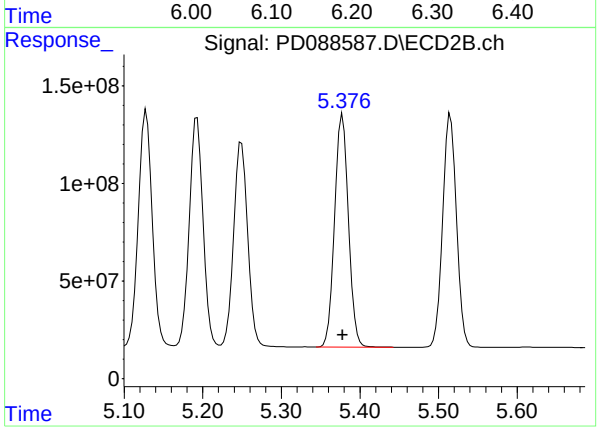
#11 alpha-Chlordane

R.T.: 5.193 min
Delta R.T.: 0.000 min
Response: 1430943624
Conc: 74.14 ng/ml



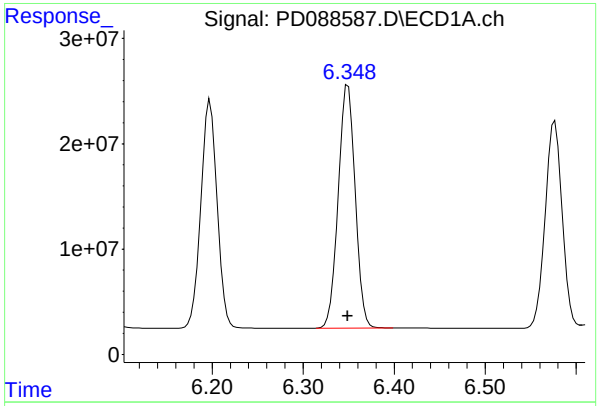
#12 4,4'-DDE

R.T.: 6.198 min
Delta R.T.: 0.000 min
Response: 270834692
Conc: 74.04 ng/ml



#12 4,4'-DDE

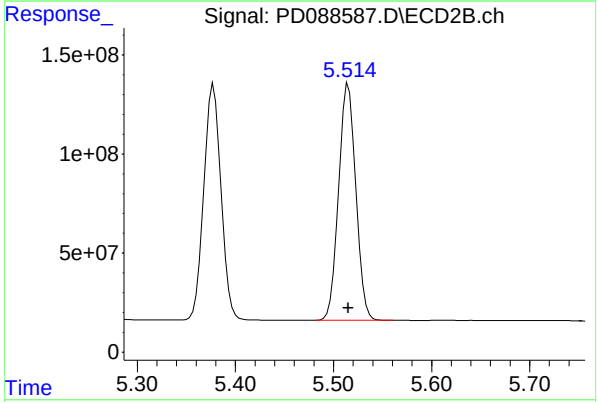
R.T.: 5.378 min
Delta R.T.: 0.000 min
Response: 1456688727
Conc: 74.35 ng/ml



#13 Dieldrin

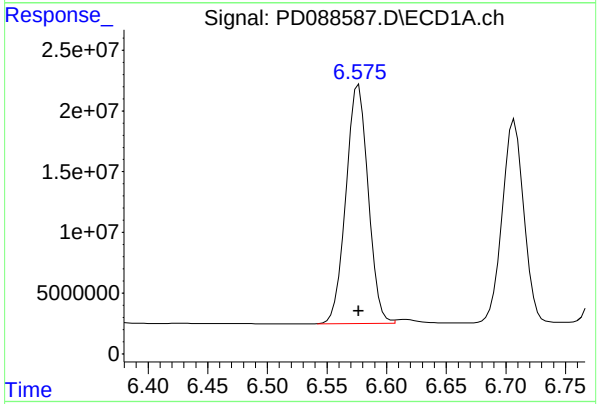
R.T.: 6.349 min
Delta R.T.: 0.000 min
Response: 299639549
Conc: 73.97 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC075



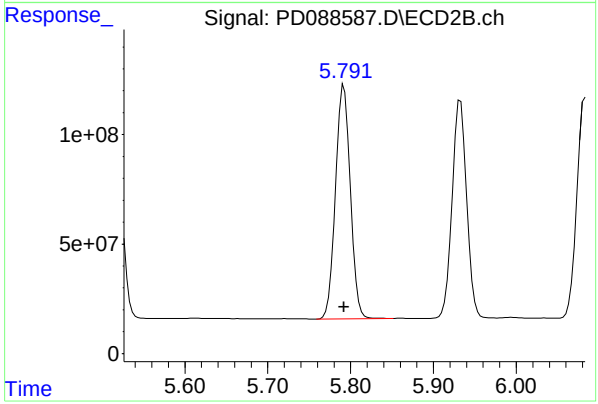
#13 Dieldrin

R.T.: 5.515 min
Delta R.T.: 0.000 min
Response: 1459070496
Conc: 74.13 ng/ml



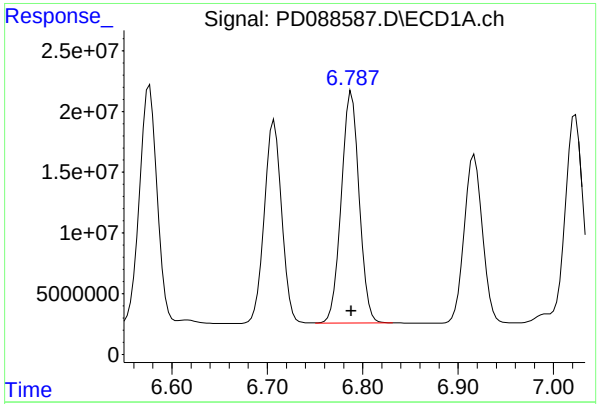
#14 Endrin

R.T.: 6.577 min
Delta R.T.: 0.000 min
Response: 255047199
Conc: 74.02 ng/ml



#14 Endrin

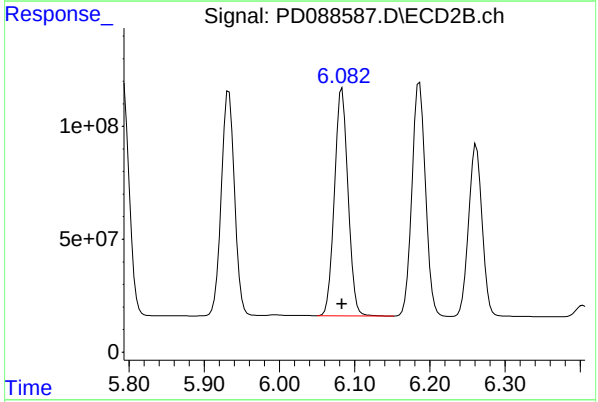
R.T.: 5.792 min
Delta R.T.: 0.000 min
Response: 1328130003
Conc: 74.16 ng/ml



#15 Endosulfan II

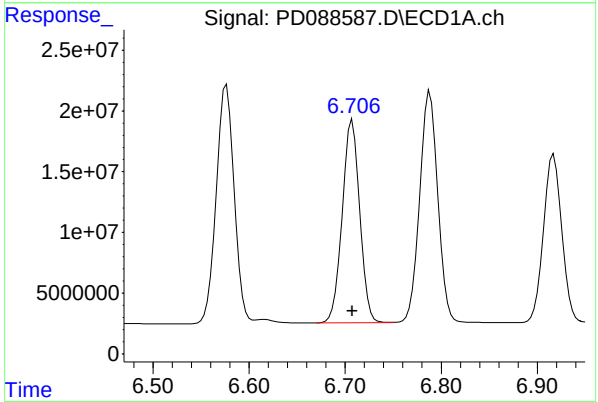
R.T.: 6.788 min
Delta R.T.: 0.000 min
Response: 249085428
Conc: 73.93 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC075



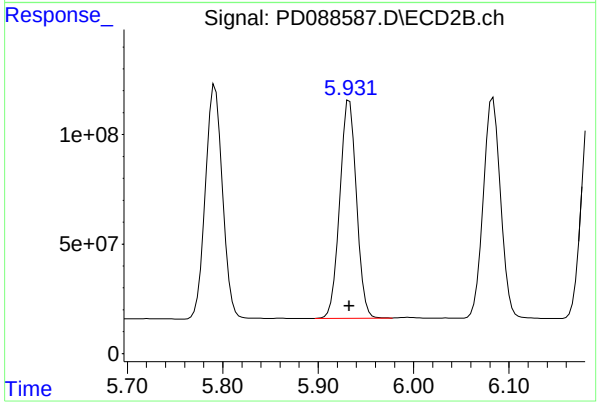
#15 Endosulfan II

R.T.: 6.083 min
Delta R.T.: 0.000 min
Response: 1263730609
Conc: 74.19 ng/ml



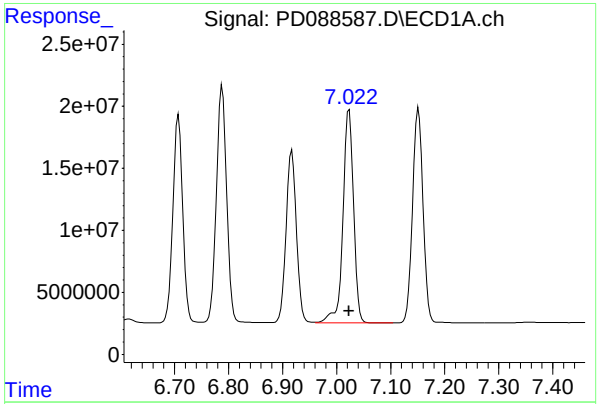
#16 4,4'-DDD

R.T.: 6.707 min
Delta R.T.: 0.000 min
Response: 209925046
Conc: 74.16 ng/ml



#16 4,4'-DDD

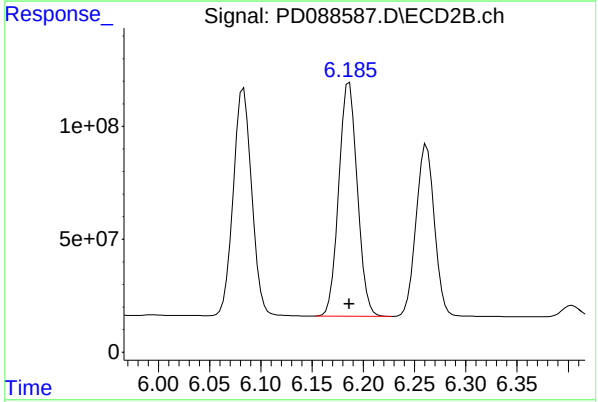
R.T.: 5.933 min
Delta R.T.: 0.000 min
Response: 1212777737
Conc: 74.31 ng/ml



#17 4,4'-DDT

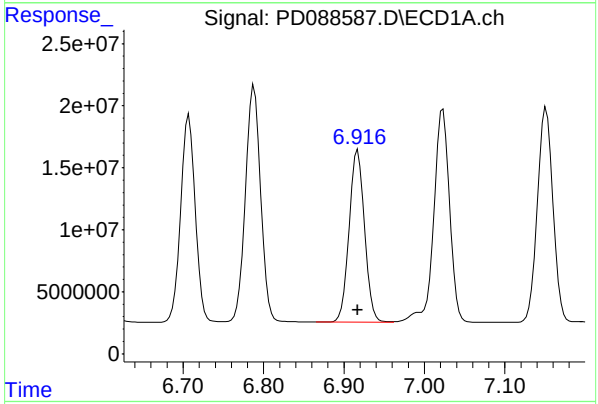
R.T.: 7.023 min
Delta R.T.: 0.000 min
Response: 234435759
Conc: 73.96 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC075



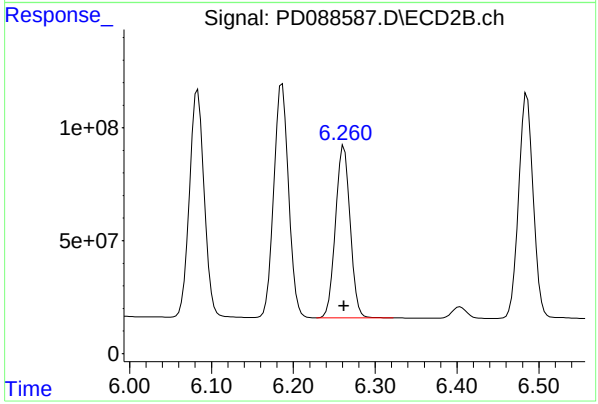
#17 4,4'-DDT

R.T.: 6.186 min
Delta R.T.: 0.000 min
Response: 1298590649
Conc: 74.38 ng/ml



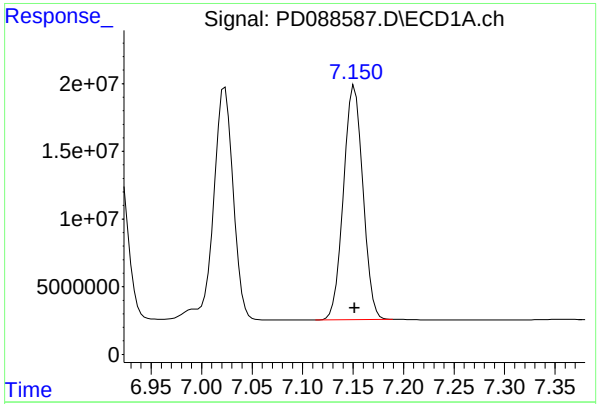
#18 Endrin aldehyde

R.T.: 6.917 min
Delta R.T.: 0.000 min
Response: 184384679
Conc: 74.02 ng/ml



#18 Endrin aldehyde

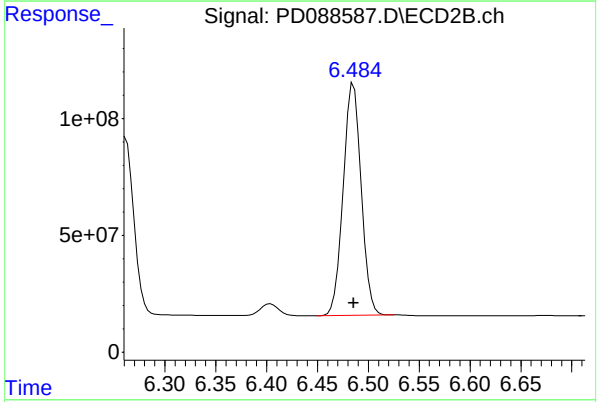
R.T.: 6.262 min
Delta R.T.: 0.000 min
Response: 951113516
Conc: 74.37 ng/ml



#19 Endosulfan Sulfate

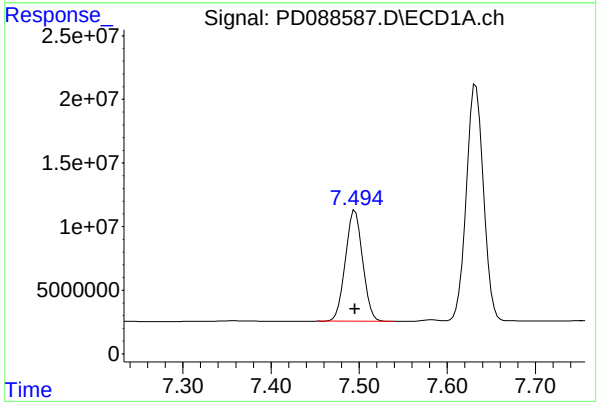
R.T.: 7.151 min
Delta R.T.: 0.000 min
Response: 232230670
Conc: 73.91 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC075



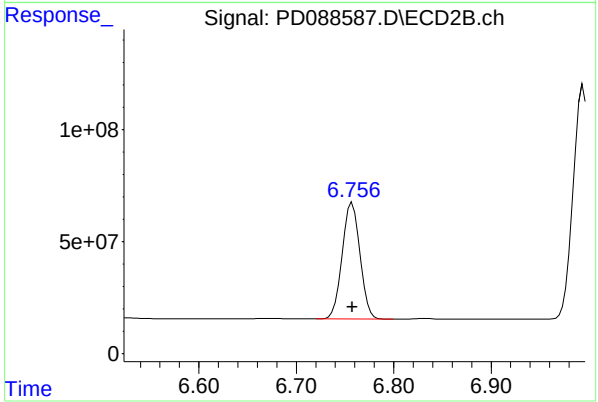
#19 Endosulfan Sulfate

R.T.: 6.485 min
Delta R.T.: 0.000 min
Response: 1221008007
Conc: 74.18 ng/ml



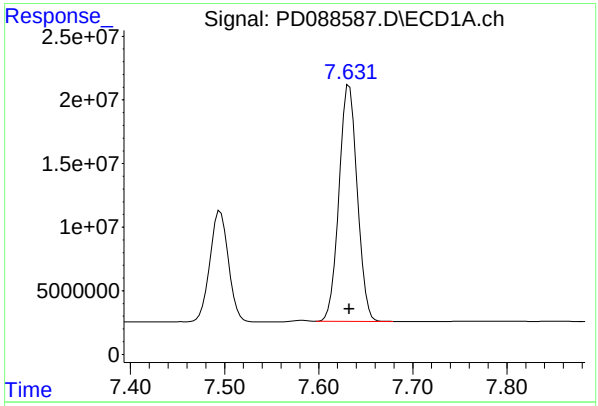
#20 Methoxychlor

R.T.: 7.495 min
Delta R.T.: 0.000 min
Response: 118836294
Conc: 73.77 ng/ml



#20 Methoxychlor

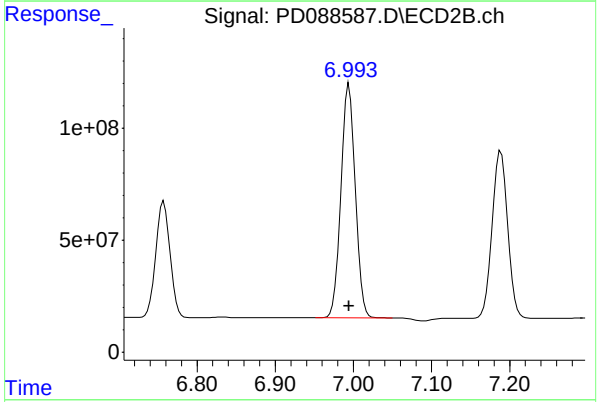
R.T.: 6.757 min
Delta R.T.: 0.000 min
Response: 660078163
Conc: 74.28 ng/ml



#21 Endrin ketone

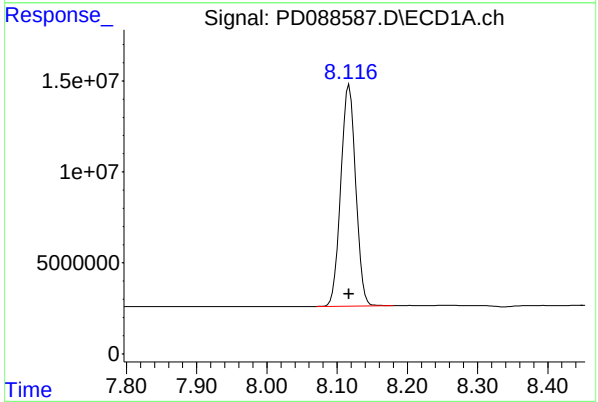
R.T.: 7.633 min
Delta R.T.: 0.000 min
Response: 250577047
Conc: 73.97 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC075



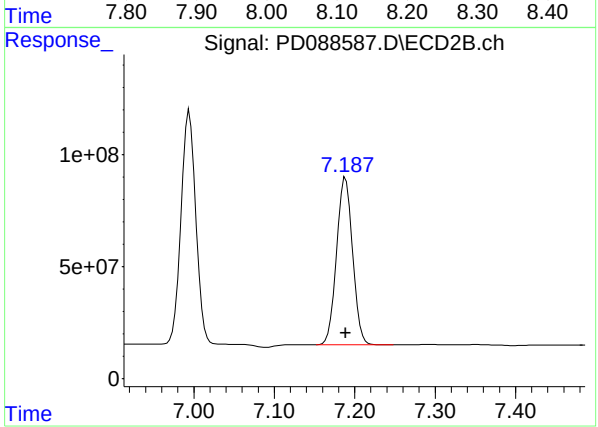
#21 Endrin ketone

R.T.: 6.995 min
Delta R.T.: 0.000 min
Response: 1333410454
Conc: 74.28 ng/ml



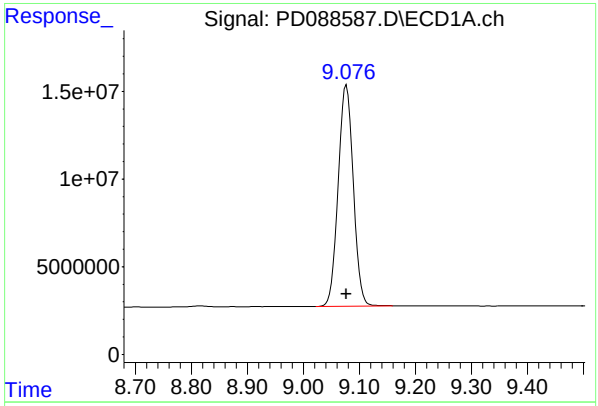
#22 Mirex

R.T.: 8.117 min
Delta R.T.: 0.000 min
Response: 179598572
Conc: 73.72 ng/ml



#22 Mirex

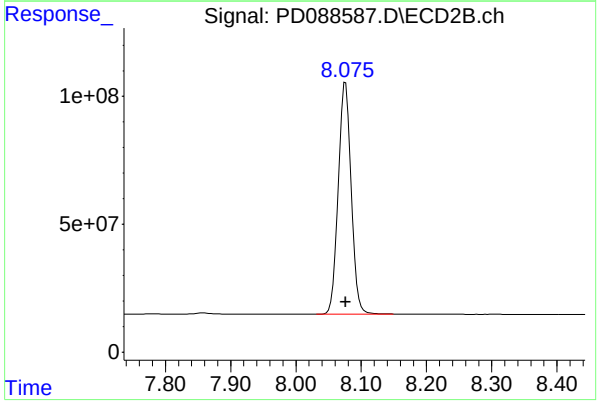
R.T.: 7.189 min
Delta R.T.: 0.000 min
Response: 1033821156
Conc: 74.36 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.077 min
Delta R.T.: 0.000 min
Response: 236563946
Conc: 73.51 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC075



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 1246388084
Conc: 74.13 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088588.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 11:58
Operator : AR\AJ
Sample : PSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 12:42:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 12:41:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
1)	SA	Tetrachlo...	3.551	2.882	106.1E6	727.6E6	50.000	50.000
28)	SA	Decachlor...	9.077	8.077	166.4E6	865.9E6	50.000	50.000
		Target Compounds						
2)	A	alpha-BHC	4.000	3.394	242.4E6	1163.1E6	50.000	50.000
3)	MA	gamma-BHC...	4.332	3.731	230.9E6	1072.5E6	50.000	50.000
4)	MA	Heptachlor	4.932	4.085	222.3E6	1082.4E6	50.000	50.000
5)	MB	Aldrin	5.273	4.371	218.6E6	1059.4E6	50.000	50.000
6)	B	beta-BHC	4.517	4.027	88017766	465.1E6	50.000	50.000
7)	B	delta-BHC	4.766	4.264	211.4E6	1078.7E6	50.000	50.000
8)	B	Heptachlo...	5.693	4.875	194.8E6	953.8E6	50.000	50.000
9)	A	Endosulfan I	6.077	5.250	185.4E6	910.3E6	50.000	50.000
10)	B	gamma-Chl...	5.948	5.129	197.6E6	1023.2E6	50.000	50.000
11)	B	alpha-Chl...	6.030	5.194	197.7E6	988.5E6	50.000	50.000
12)	B	4,4'-DDE	6.198	5.378	179.4E6	1002.3E6	50.000	50.000
13)	MA	Dieldrin	6.350	5.516	199.4E6	1010.6E6	50.000	50.000
14)	MA	Endrin	6.577	5.792	169.6E6	923.0E6	50.000	50.000
15)	B	Endosulfa...	6.788	6.084	168.1E6	879.1E6	50.000	50.000
16)	A	4,4'-DDD	6.708	5.933	139.0E6	836.3E6	50.000	50.000
17)	MA	4,4'-DDT	7.023	6.187	156.2E6	889.1E6	50.000	50.000
18)	B	Endrin al...	6.917	6.262	125.6E6	662.6E6	50.000	50.000
19)	B	Endosulfa...	7.152	6.486	157.2E6	850.0E6	50.000	50.000
20)	A	Methoxychlor	7.495	6.758	82121190	464.3E6	50.000	50.000
21)	B	Endrin ke...	7.633	6.995	169.4E6	930.3E6	50.000	50.000
22)		Mirex	8.117	7.189	125.3E6	720.6E6	50.000	50.000

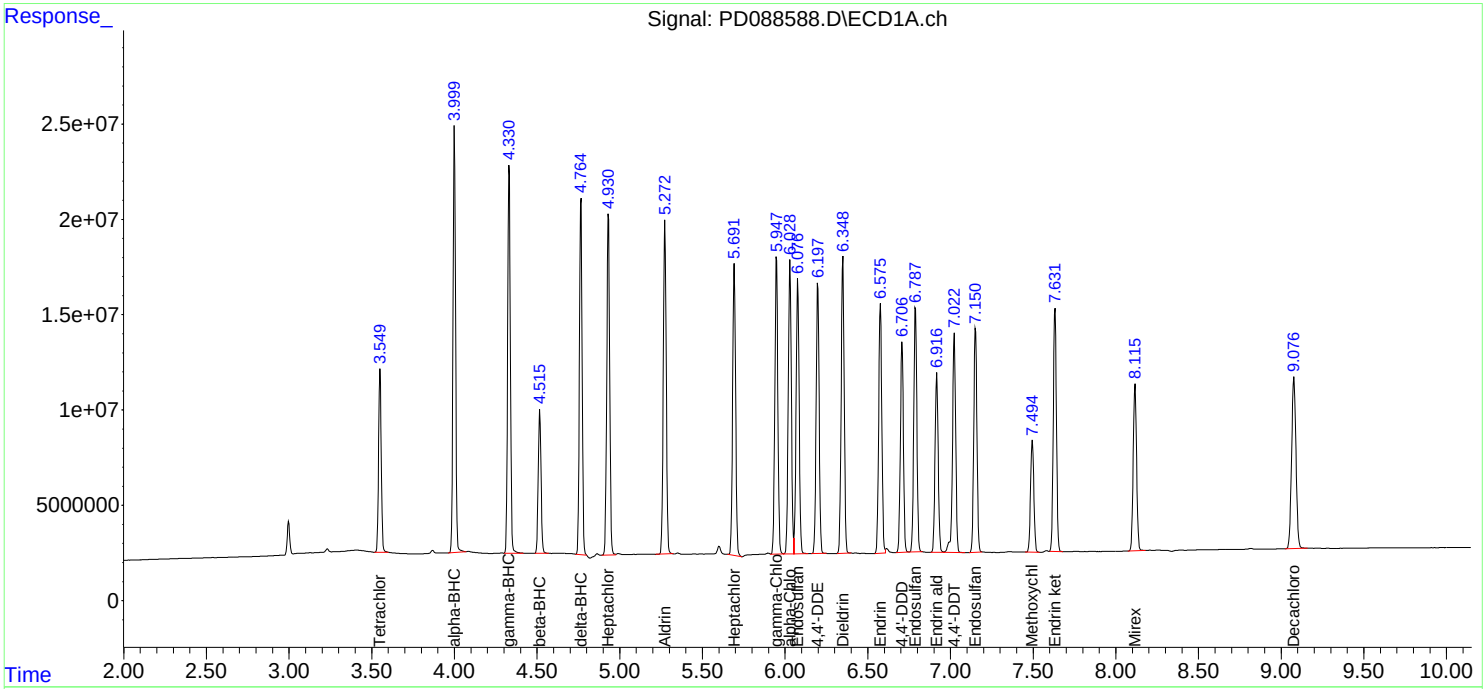
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

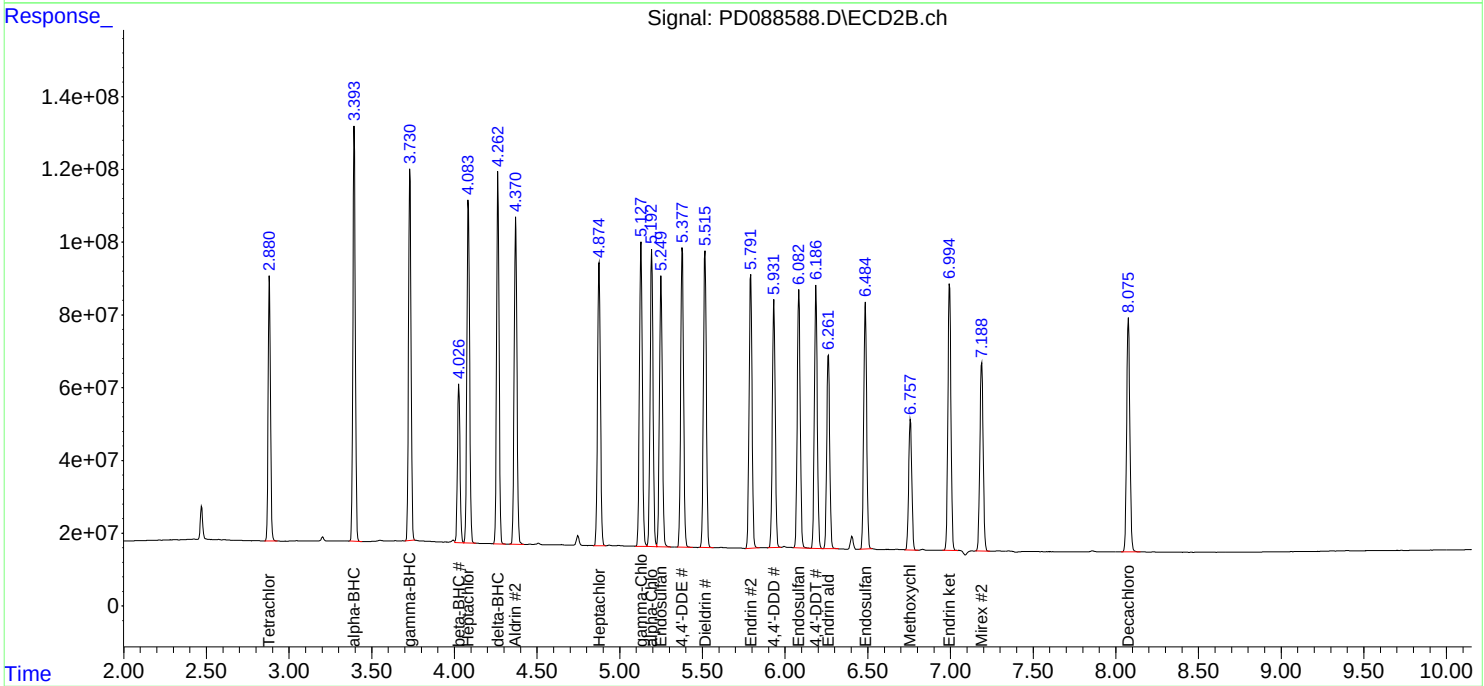
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088588.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 11:58
Operator : AR\AJ
Sample : PSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

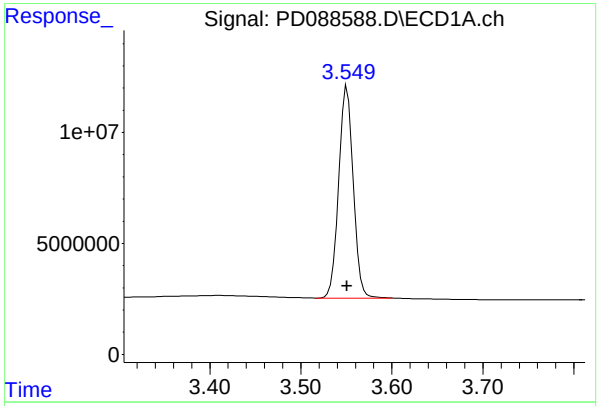
Instrument :
ECD_D
ClientSampleId :
PSTDICC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 12:42:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 12:41:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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



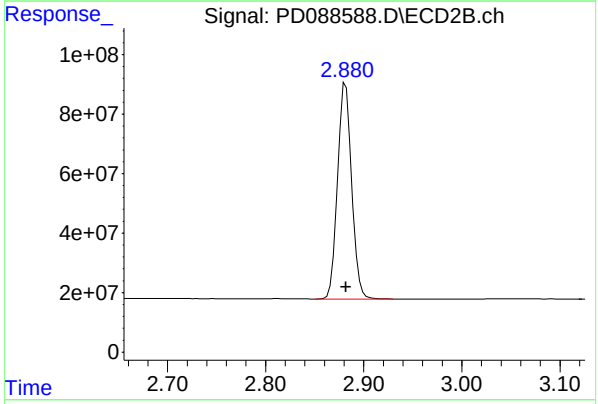




#1 Tetrachloro-m-xylene

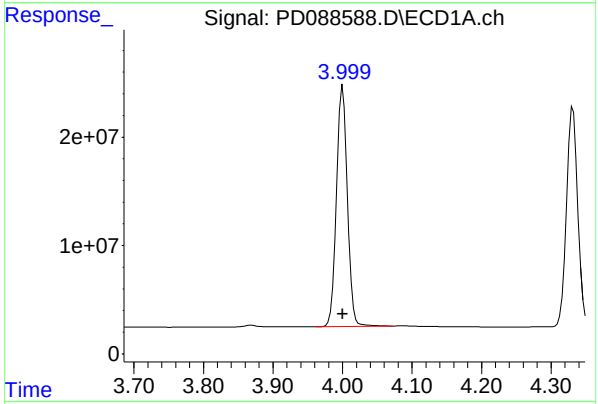
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 106100623
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC050



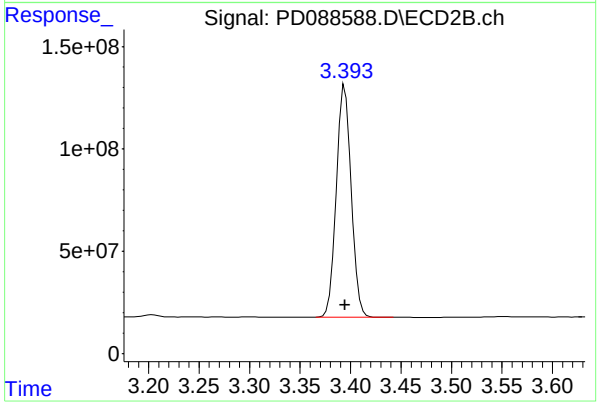
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 727614380
Conc: 50.00 ng/ml



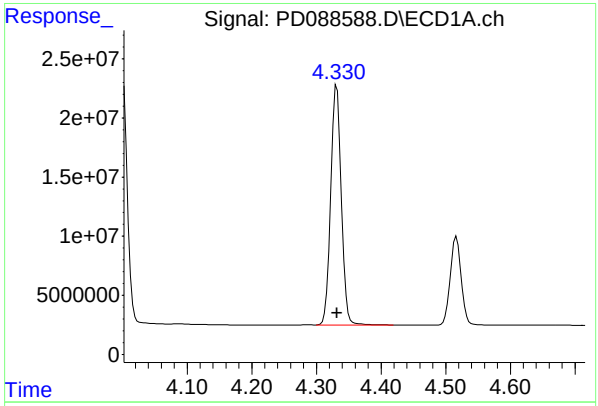
#2 alpha-BHC

R.T.: 4.000 min
Delta R.T.: 0.000 min
Response: 242364598
Conc: 50.00 ng/ml



#2 alpha-BHC

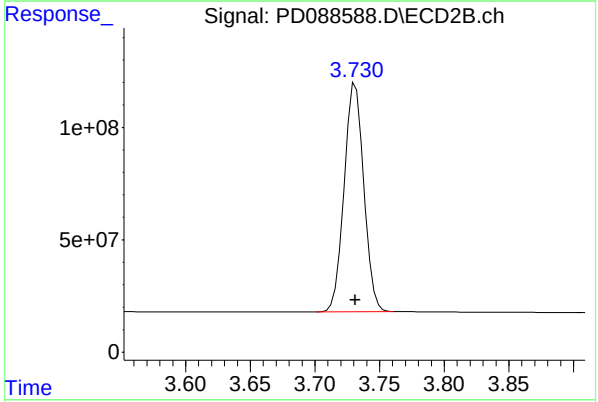
R.T.: 3.394 min
Delta R.T.: 0.000 min
Response: 1163142653
Conc: 50.00 ng/ml



#3 gamma-BHC (Lindane)

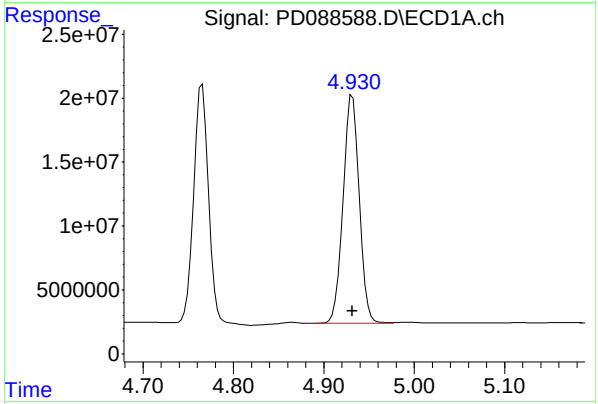
R.T.: 4.332 min
Delta R.T.: 0.000 min
Response: 230856385
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC050



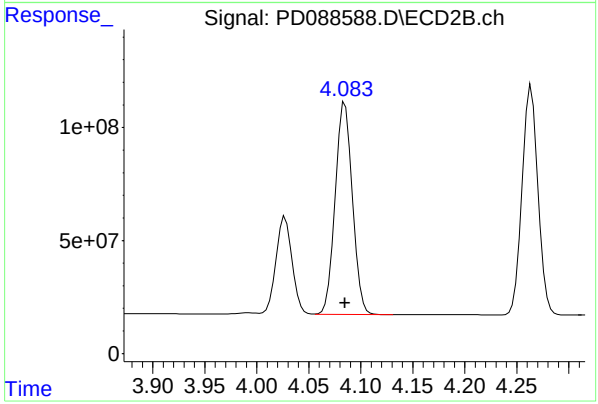
#3 gamma-BHC (Lindane)

R.T.: 3.731 min
Delta R.T.: 0.000 min
Response: 1072520345
Conc: 50.00 ng/ml



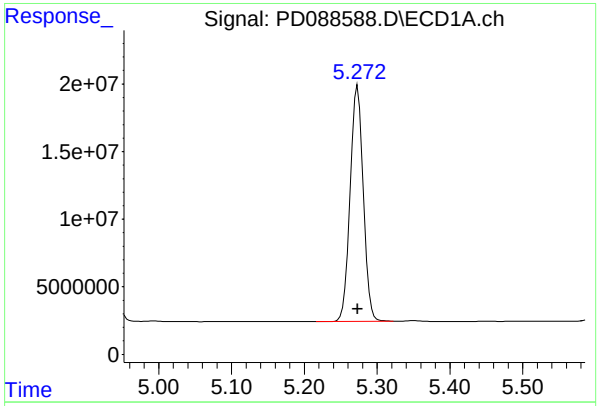
#4 Heptachlor

R.T.: 4.932 min
Delta R.T.: 0.000 min
Response: 222267722
Conc: 50.00 ng/ml



#4 Heptachlor

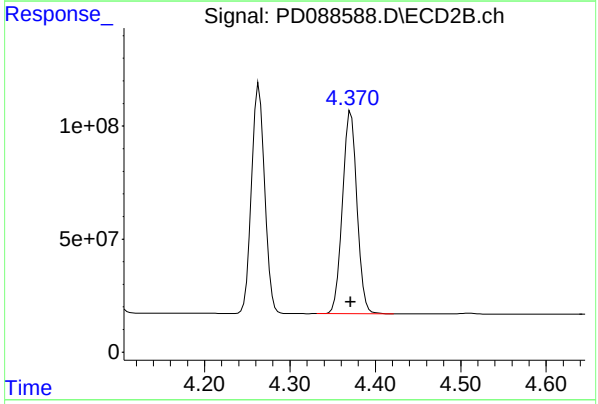
R.T.: 4.085 min
Delta R.T.: 0.000 min
Response: 1082395979
Conc: 50.00 ng/ml



#5 Aldrin

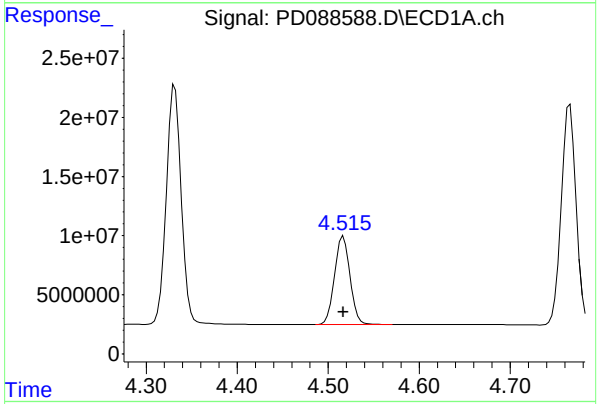
R.T.: 5.273 min
Delta R.T.: 0.000 min
Response: 218553000
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC050



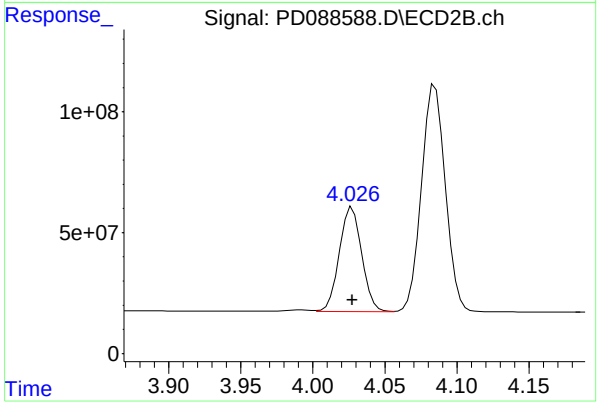
#5 Aldrin

R.T.: 4.371 min
Delta R.T.: 0.000 min
Response: 1059354088
Conc: 50.00 ng/ml



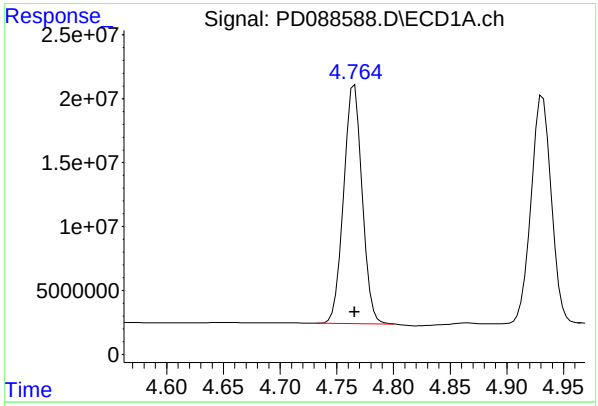
#6 beta-BHC

R.T.: 4.517 min
Delta R.T.: 0.000 min
Response: 88017766
Conc: 50.00 ng/ml



#6 beta-BHC

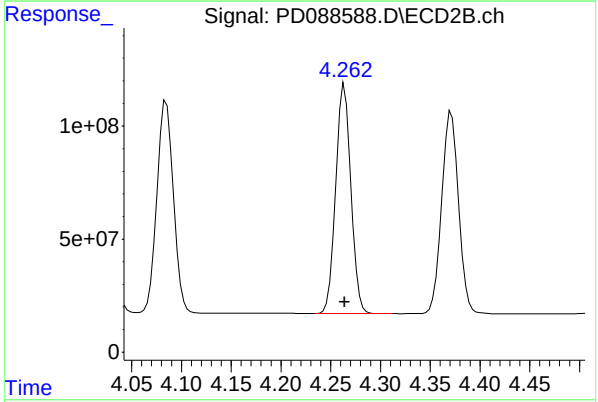
R.T.: 4.027 min
Delta R.T.: 0.000 min
Response: 465123034
Conc: 50.00 ng/ml



#7 delta-BHC

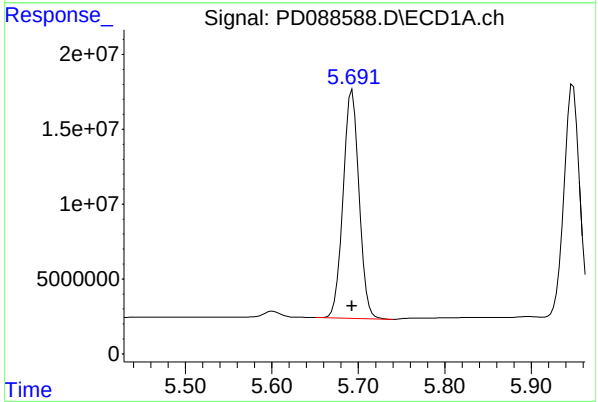
R.T.: 4.766 min
Delta R.T.: 0.000 min
Response: 211388375
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC050



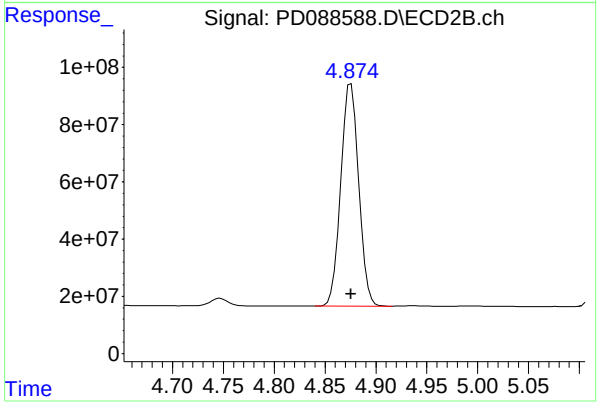
#7 delta-BHC

R.T.: 4.264 min
Delta R.T.: 0.000 min
Response: 1078655007
Conc: 50.00 ng/ml



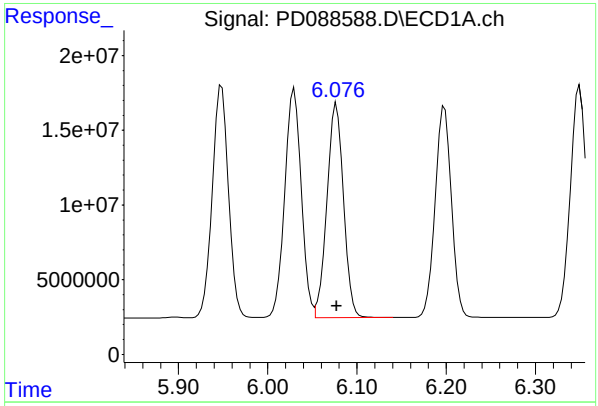
#8 Heptachlor epoxide

R.T.: 5.693 min
Delta R.T.: 0.000 min
Response: 194838023
Conc: 50.00 ng/ml



#8 Heptachlor epoxide

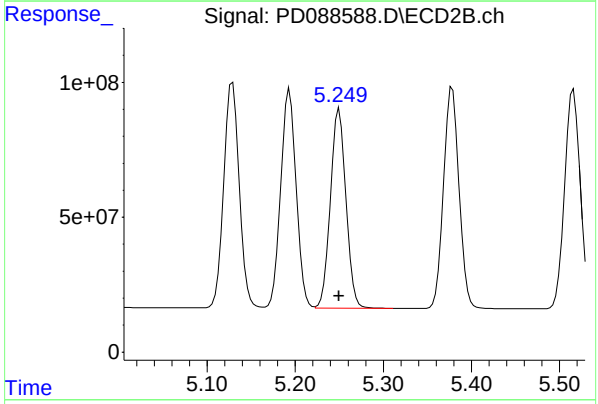
R.T.: 4.875 min
Delta R.T.: 0.000 min
Response: 953842823
Conc: 50.00 ng/ml



#9 Endosulfan I

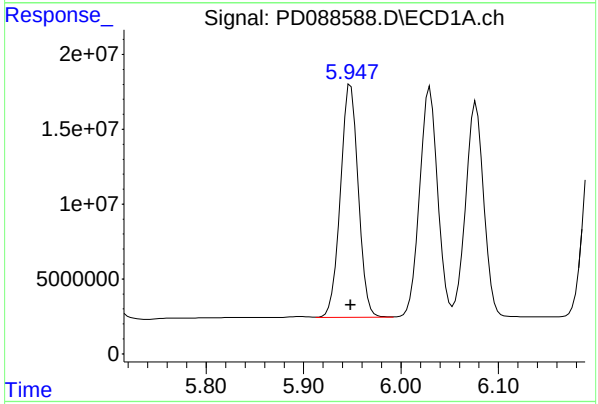
R.T.: 6.077 min
Delta R.T.: 0.000 min
Response: 185438020
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC050



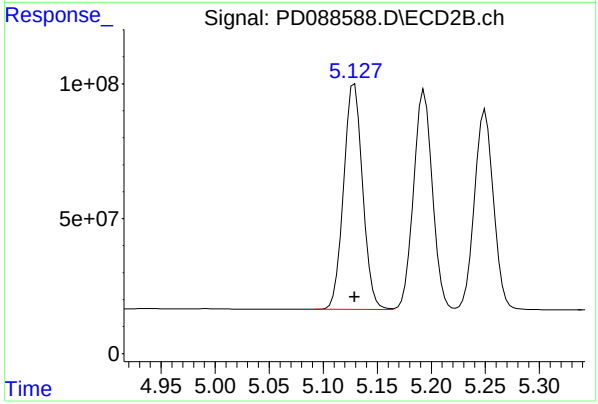
#9 Endosulfan I

R.T.: 5.250 min
Delta R.T.: 0.000 min
Response: 910324214
Conc: 50.00 ng/ml



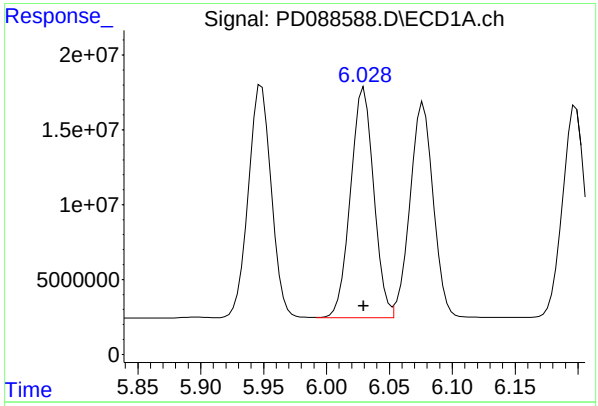
#10 gamma-Chlordane

R.T.: 5.948 min
Delta R.T.: 0.000 min
Response: 197569776
Conc: 50.00 ng/ml



#10 gamma-Chlordane

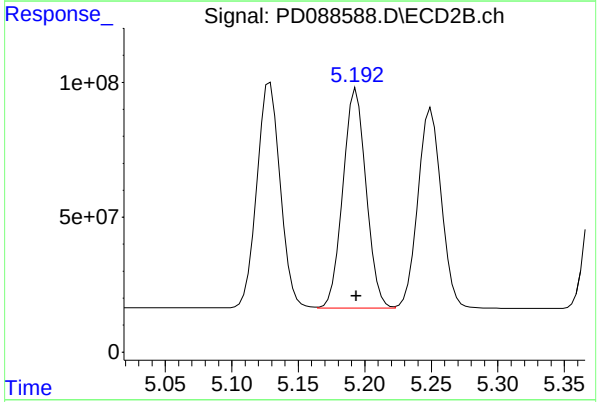
R.T.: 5.129 min
Delta R.T.: 0.000 min
Response: 1023185445
Conc: 50.00 ng/ml



#11 alpha-Chlordane

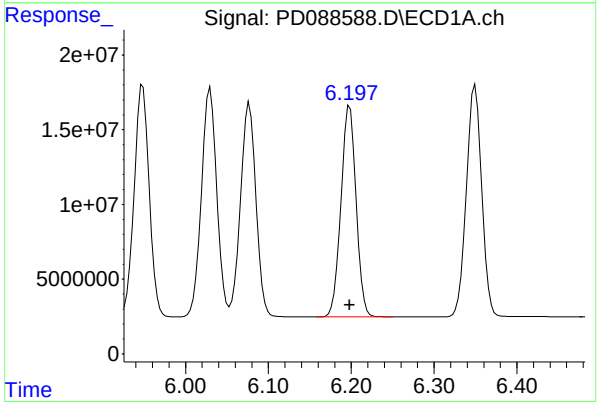
R.T.: 6.030 min
Delta R.T.: 0.000 min
Response: 197690760
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC050



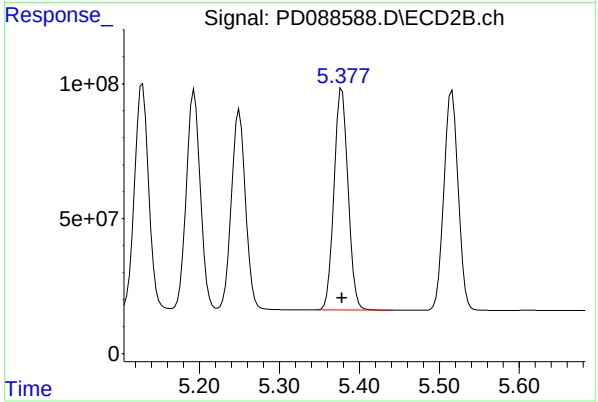
#11 alpha-Chlordane

R.T.: 5.194 min
Delta R.T.: 0.000 min
Response: 988542005
Conc: 50.00 ng/ml



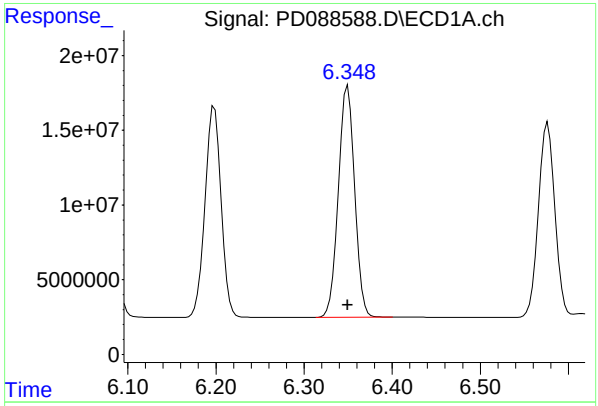
#12 4,4'-DDE

R.T.: 6.198 min
Delta R.T.: 0.000 min
Response: 179396456
Conc: 50.00 ng/ml



#12 4,4'-DDE

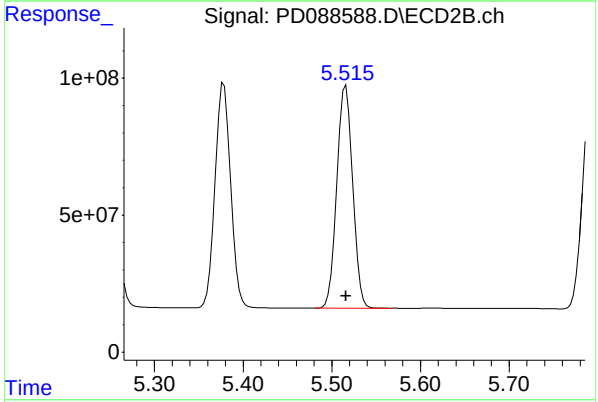
R.T.: 5.378 min
Delta R.T.: 0.000 min
Response: 1002342446
Conc: 50.00 ng/ml



#13 Dieldrin

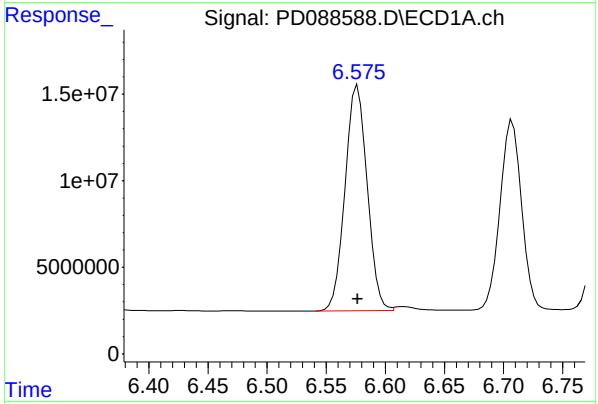
R.T.: 6.350 min
Delta R.T.: 0.000 min
Response: 199394501
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC050



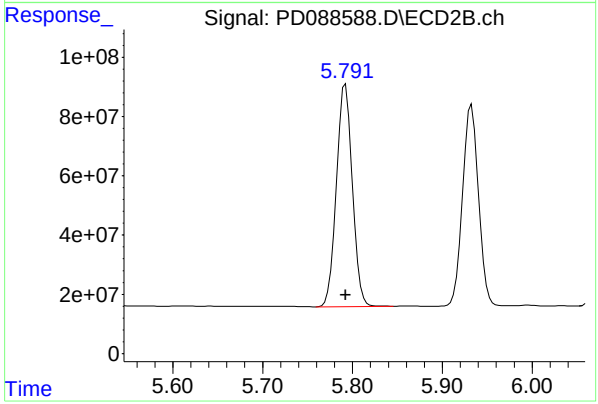
#13 Dieldrin

R.T.: 5.516 min
Delta R.T.: 0.000 min
Response: 1010582936
Conc: 50.00 ng/ml



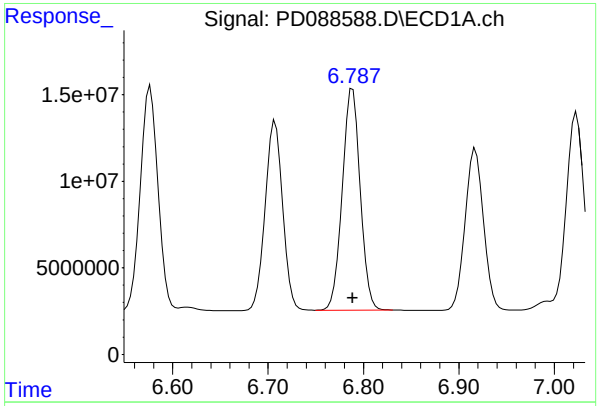
#14 Endrin

R.T.: 6.577 min
Delta R.T.: 0.000 min
Response: 169594195
Conc: 50.00 ng/ml



#14 Endrin

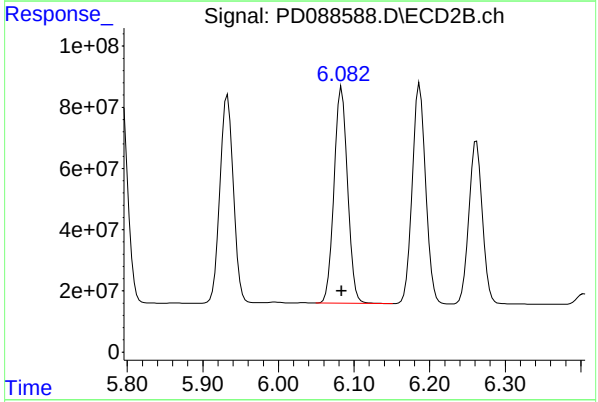
R.T.: 5.792 min
Delta R.T.: 0.000 min
Response: 922975552
Conc: 50.00 ng/ml



#15 Endosulfan II

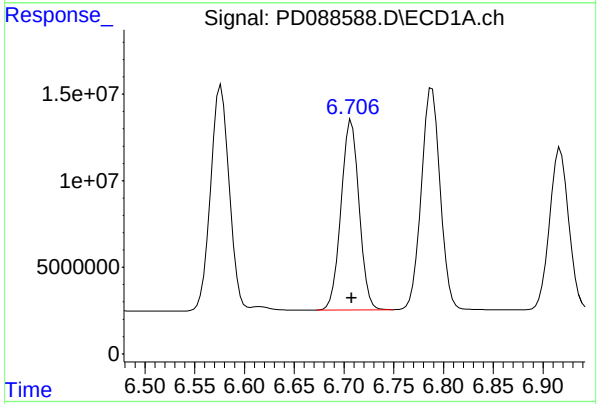
R.T.: 6.788 min
Delta R.T.: 0.000 min
Response: 168074557
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC050



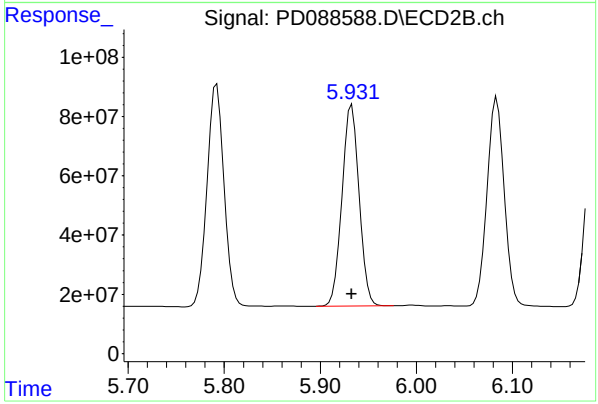
#15 Endosulfan II

R.T.: 6.084 min
Delta R.T.: 0.000 min
Response: 879065569
Conc: 50.00 ng/ml



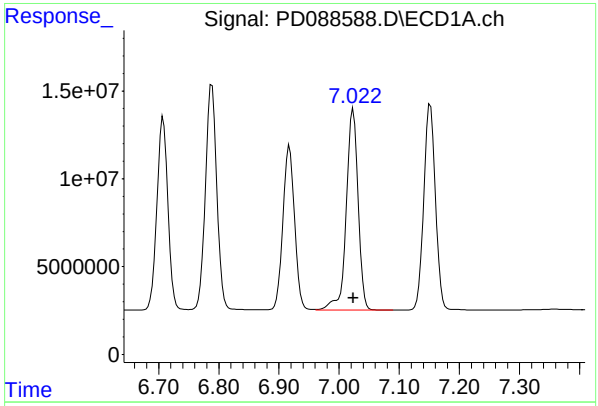
#16 4,4'-DDD

R.T.: 6.708 min
Delta R.T.: 0.000 min
Response: 138959021
Conc: 50.00 ng/ml



#16 4,4'-DDD

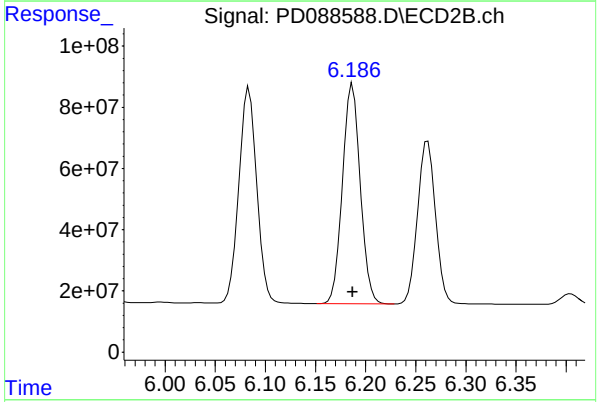
R.T.: 5.933 min
Delta R.T.: 0.000 min
Response: 836346477
Conc: 50.00 ng/ml



#17 4,4'-DDT

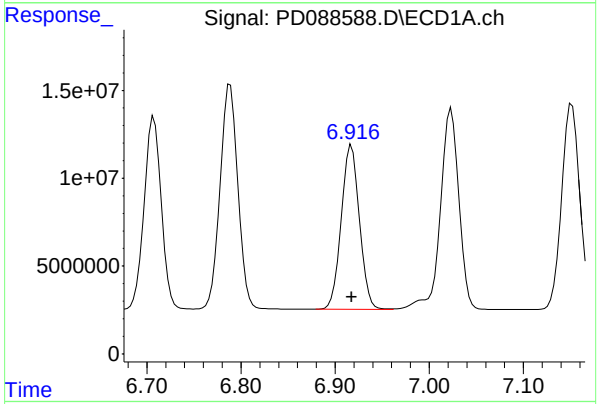
R.T.: 7.023 min
Delta R.T.: 0.000 min
Response: 156188609
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC050



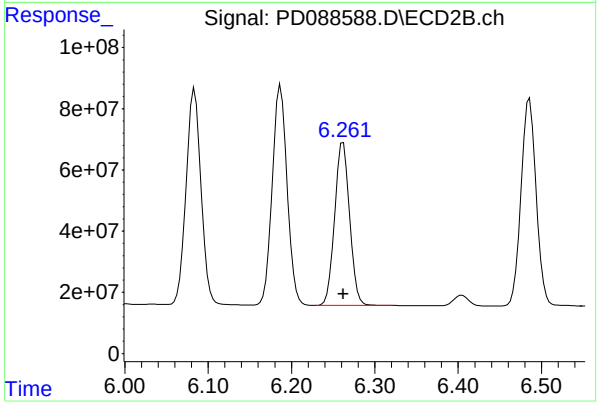
#17 4,4'-DDT

R.T.: 6.187 min
Delta R.T.: 0.000 min
Response: 889142601
Conc: 50.00 ng/ml



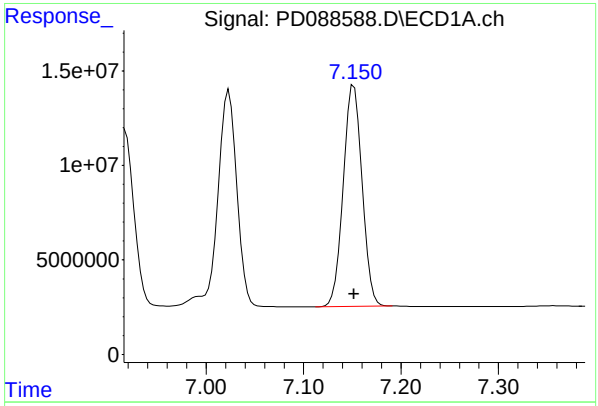
#18 Endrin aldehyde

R.T.: 6.917 min
Delta R.T.: 0.000 min
Response: 125576622
Conc: 50.00 ng/ml



#18 Endrin aldehyde

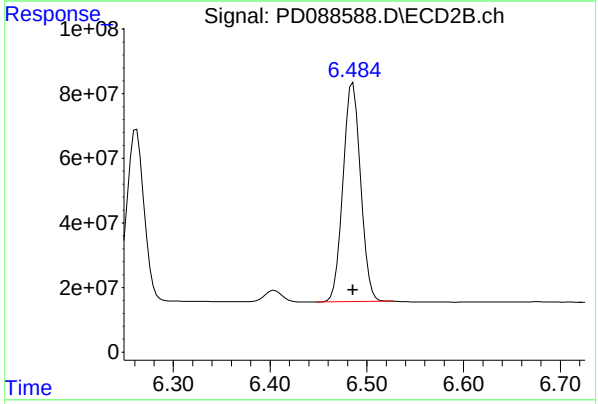
R.T.: 6.262 min
Delta R.T.: 0.000 min
Response: 662589753
Conc: 50.00 ng/ml



#19 Endosulfan Sulfate

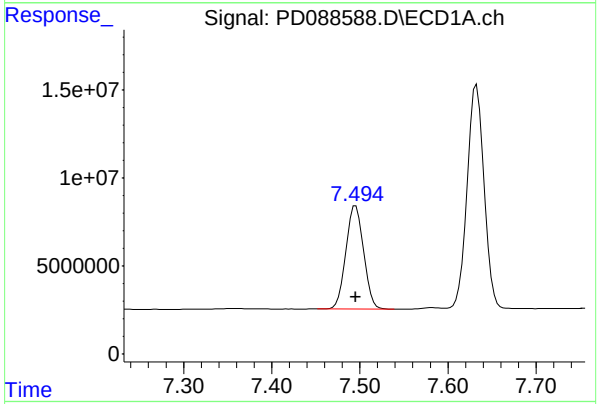
R.T.: 7.152 min
Delta R.T.: 0.000 min
Response: 157228737
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC050



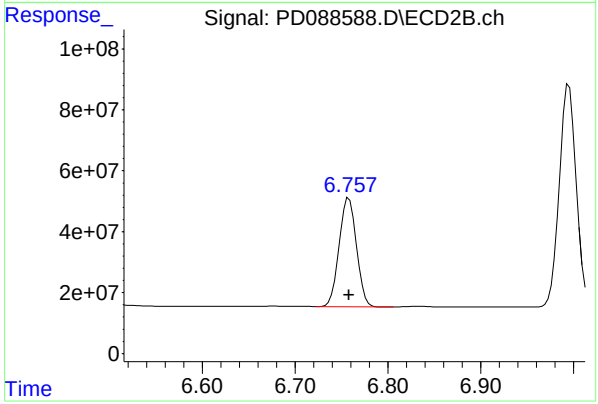
#19 Endosulfan Sulfate

R.T.: 6.486 min
Delta R.T.: 0.000 min
Response: 849950225
Conc: 50.00 ng/ml



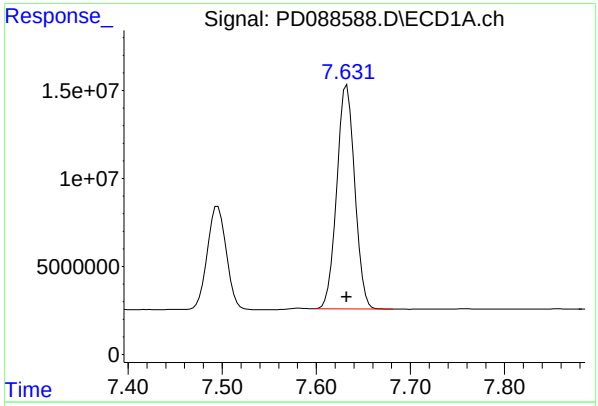
#20 Methoxychlor

R.T.: 7.495 min
Delta R.T.: 0.000 min
Response: 82121190
Conc: 50.00 ng/ml



#20 Methoxychlor

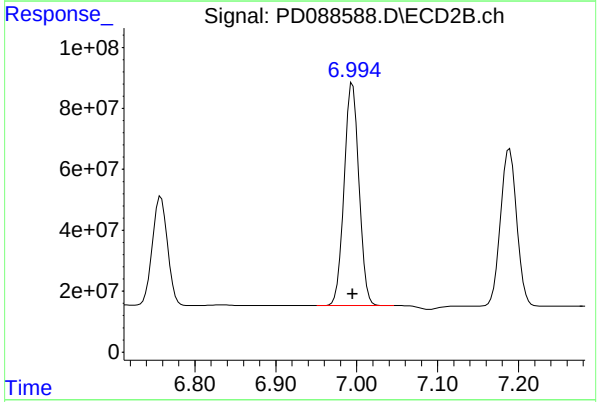
R.T.: 6.758 min
Delta R.T.: 0.000 min
Response: 464261856
Conc: 50.00 ng/ml



#21 Endrin ketone

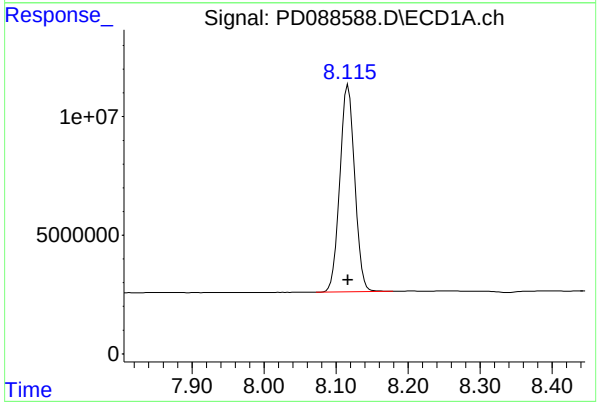
R.T.: 7.633 min
Delta R.T.: 0.000 min
Response: 169421016
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC050



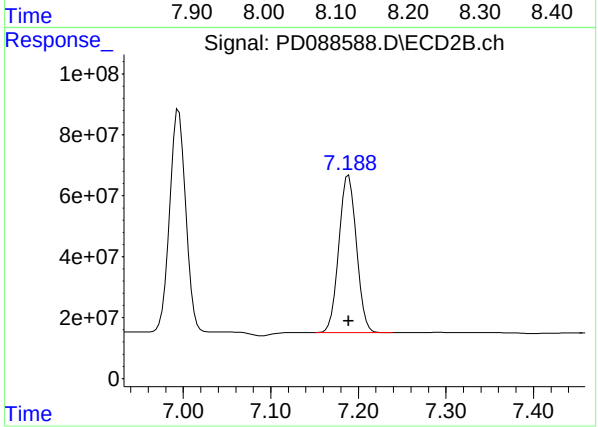
#21 Endrin ketone

R.T.: 6.995 min
Delta R.T.: 0.000 min
Response: 930287465
Conc: 50.00 ng/ml



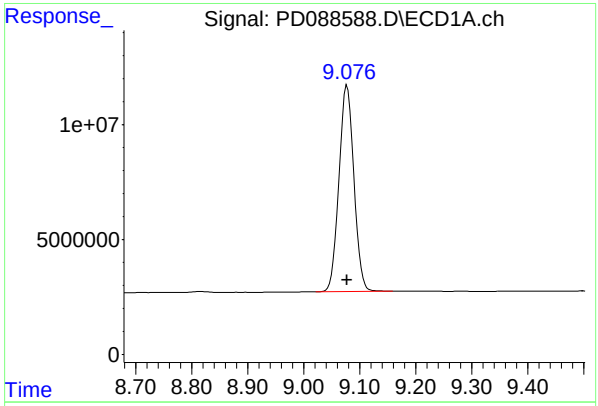
#22 Mirex

R.T.: 8.117 min
Delta R.T.: 0.000 min
Response: 125314941
Conc: 50.00 ng/ml



#22 Mirex

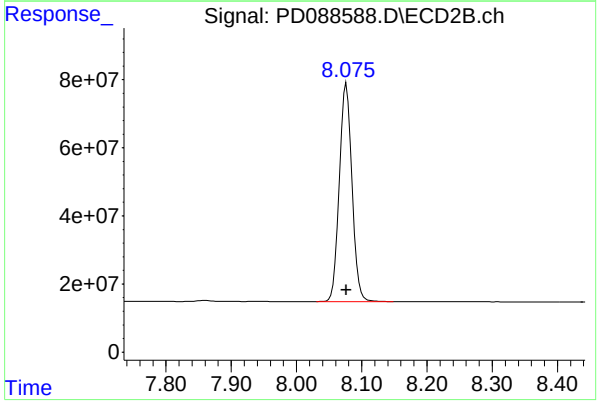
R.T.: 7.189 min
Delta R.T.: 0.000 min
Response: 720592274
Conc: 50.00 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.077 min
Delta R.T.: 0.000 min
Response: 166437630
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC050



#28 Decachlorobiphenyl

R.T.: 8.077 min
Delta R.T.: 0.000 min
Response: 865866449
Conc: 50.00 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088589.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 12:12
Operator : AR\AJ
Sample : PSTDICC025
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 12:48:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 12:41:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.551	2.882	54028504	386.4E6	25.411	26.612
28)	SA Decachlor...	9.079	8.077	87605286	467.7E6	26.630	27.054
	Target Compounds						
2)	A alpha-BHC	4.000	3.395	114.0E6	606.1E6	23.284	26.128
3)	MA gamma-BHC...	4.332	3.731	111.0E6	563.4E6	23.757	26.263
4)	MA Heptachlor	4.931	4.085	108.4E6	575.3E6	24.201	26.688
5)	MB Aldrin	5.273	4.371	106.3E6	561.5E6	24.150	26.581
6)	B beta-BHC	4.517	4.027	45318541	250.3E6	25.687	27.021
7)	B delta-BHC	4.765	4.264	100.5E6	564.9E6	23.458	26.224
8)	B Heptachlo...	5.694	4.875	97321186	511.1E6	24.837	26.934
9)	A Endosulfan I	6.077	5.250	92653177	489.2E6	24.884	26.980
10)	B gamma-Chl...	5.948	5.129	96967992	544.8E6	24.388	26.615
11)	B alpha-Chl...	6.029	5.193	98047542	528.4E6	24.697	26.742
12)	B 4,4'-DDE	6.198	5.378	86803365	535.9E6	24.035	26.725
13)	MA Dieldrin	6.350	5.516	97792162	540.9E6	24.352	26.814
14)	MA Endrin	6.577	5.792	83064769	496.3E6	24.324	26.981
15)	B Endosulfa...	6.789	6.084	84533008	472.0E6	25.068	26.977
16)	A 4,4'-DDD	6.708	5.933	67771707	446.8E6	24.197	26.743
17)	MA 4,4'-DDT	7.024	6.187	76236841	468.2E6	24.282	26.339
18)	B Endrin al...	6.918	6.262	64337678	361.1E6	25.616	27.354
19)	B Endosulfa...	7.152	6.486	79398597	457.7E6	25.201	27.050
20)	A Methoxychlor	7.496	6.758	42446886	251.5E6	26.000	27.395
21)	B Endrin ke...	7.633	6.995	84948689	501.6E6	25.057	27.142
22)	Mirex	8.117	7.189	66265705	393.6E6	26.614	27.401

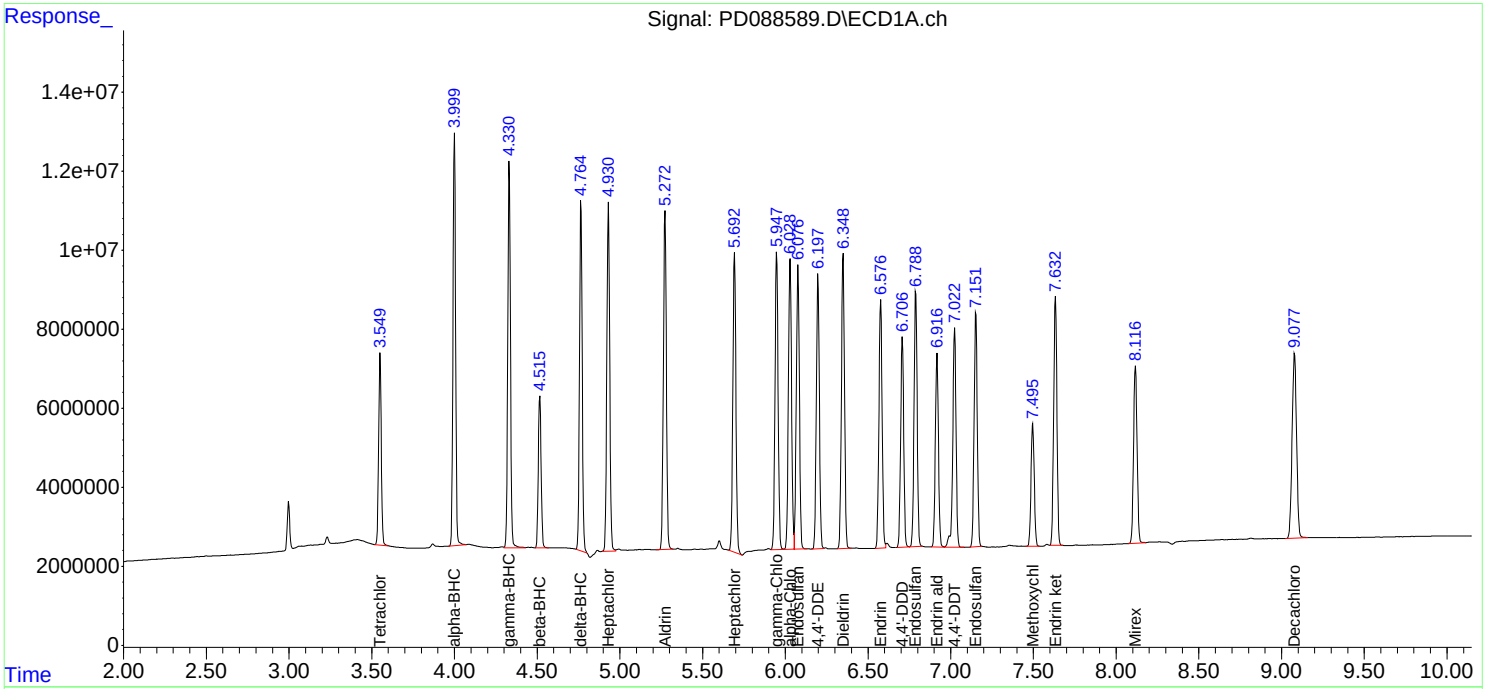
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

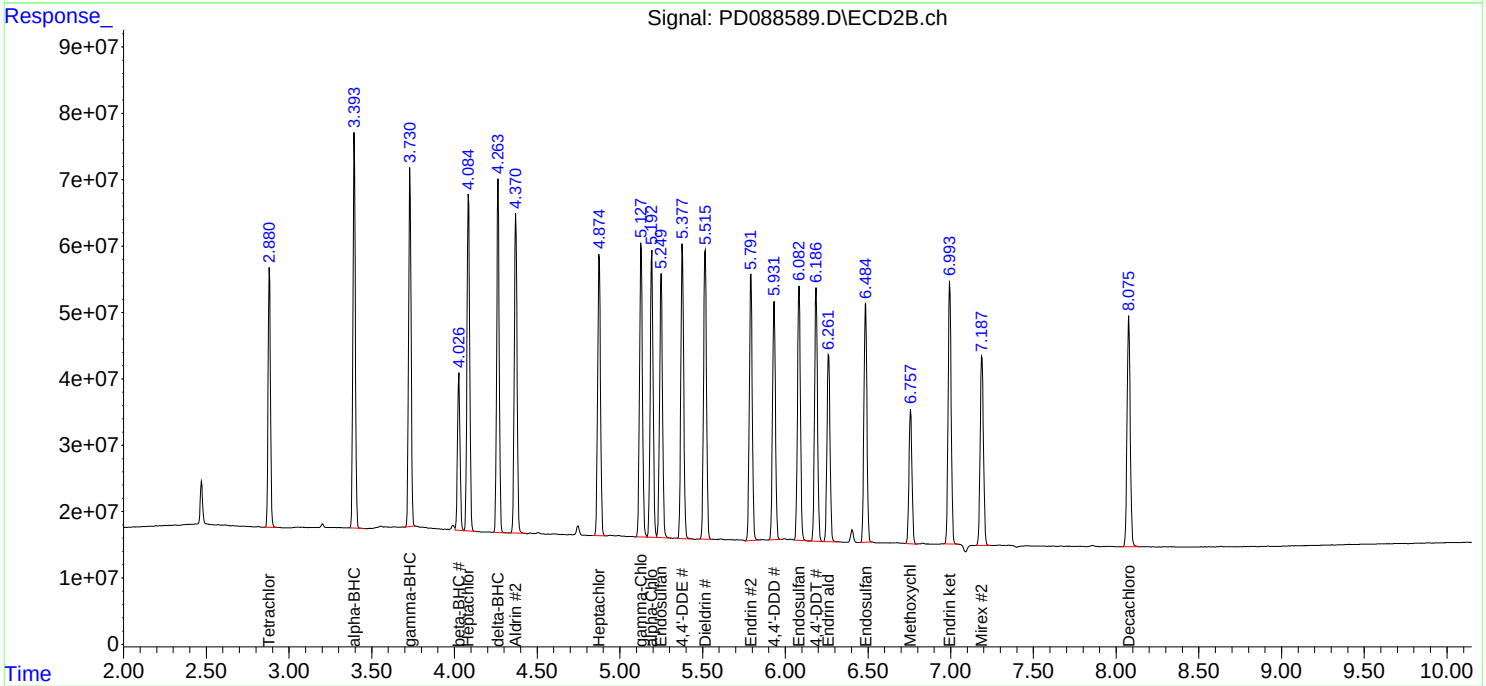
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088589.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 12:12
Operator : AR\AJ
Sample : PSTDICC025
Misc :
ALS Vial : 8 Sample Multiplier: 1

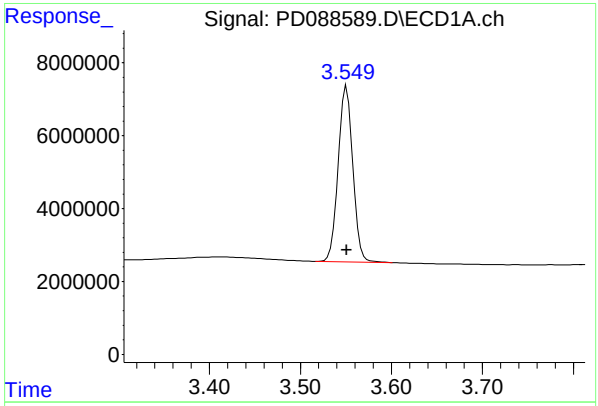
Instrument :
ECD_D
ClientSampleId :
PSTDICC025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 12:48:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 12:41:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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



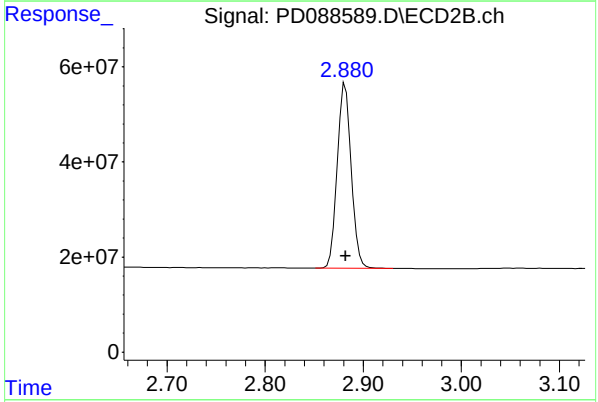




#1 Tetrachloro-m-xylene

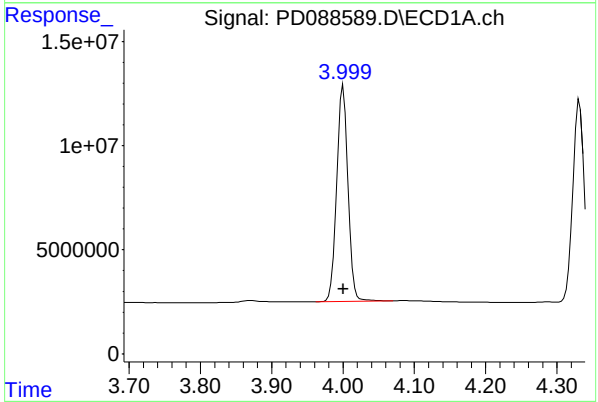
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 54028504
Conc: 25.41 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC025



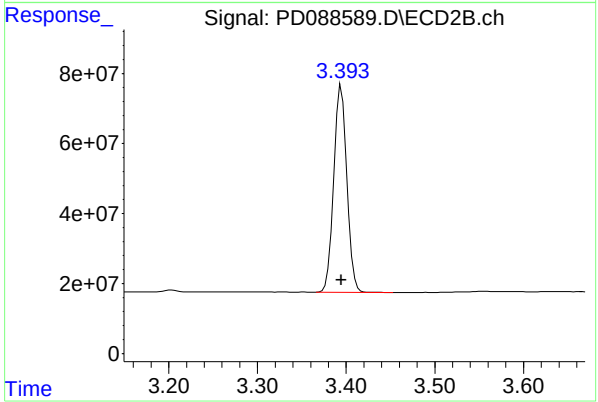
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 386442778
Conc: 26.61 ng/ml



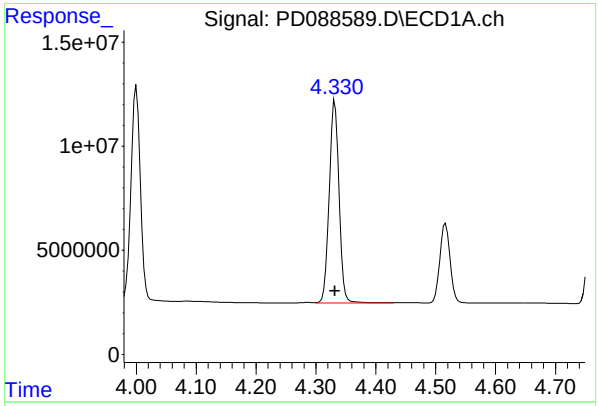
#2 alpha-BHC

R.T.: 4.000 min
Delta R.T.: 0.000 min
Response: 113962368
Conc: 23.28 ng/ml



#2 alpha-BHC

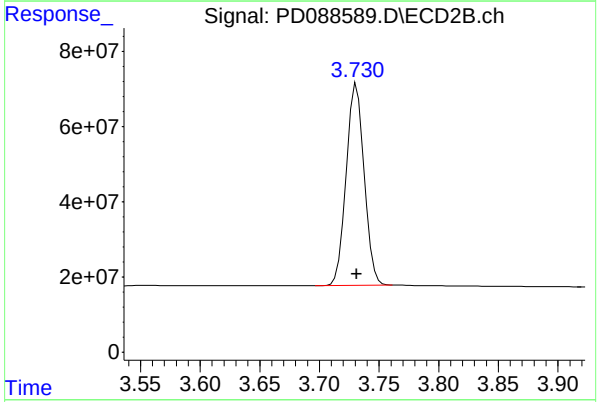
R.T.: 3.395 min
Delta R.T.: 0.000 min
Response: 606126161
Conc: 26.13 ng/ml



#3 gamma-BHC (Lindane)

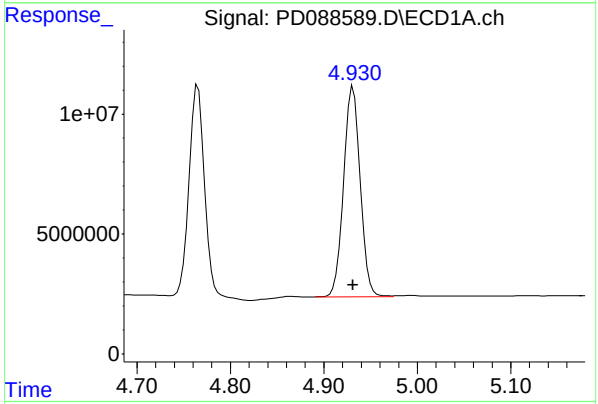
R.T.: 4.332 min
Delta R.T.: 0.000 min
Response: 110957941
Conc: 23.76 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC025



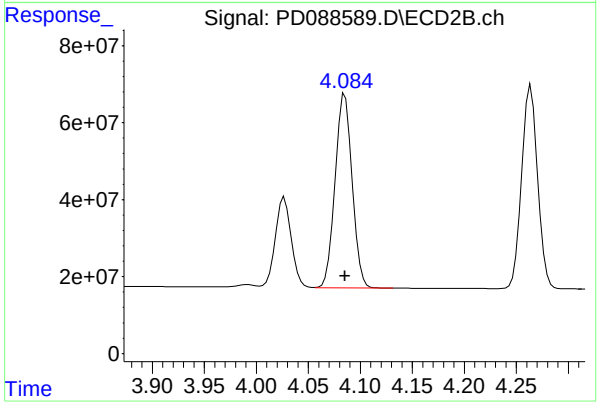
#3 gamma-BHC (Lindane)

R.T.: 3.731 min
Delta R.T.: 0.000 min
Response: 563362153
Conc: 26.26 ng/ml



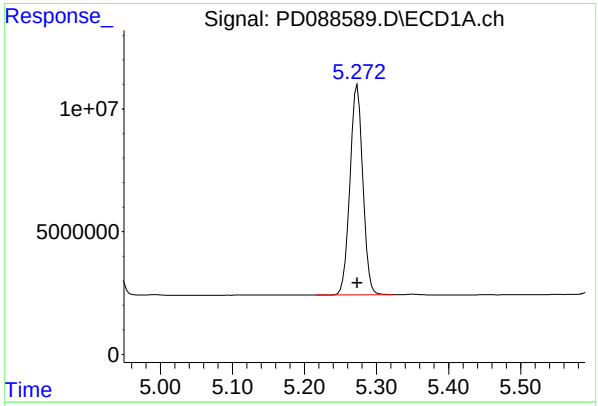
#4 Heptachlor

R.T.: 4.931 min
Delta R.T.: 0.000 min
Response: 108392757
Conc: 24.20 ng/ml



#4 Heptachlor

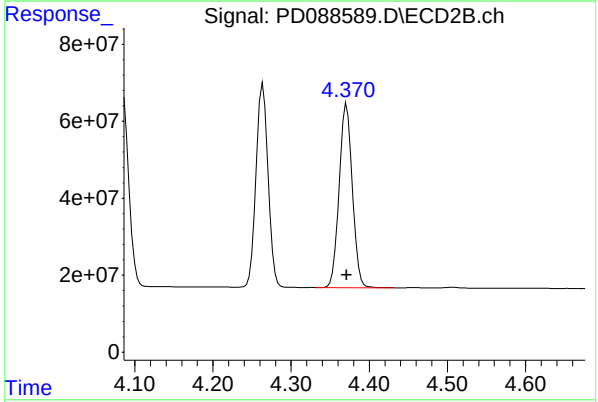
R.T.: 4.085 min
Delta R.T.: 0.000 min
Response: 575281687
Conc: 26.69 ng/ml



#5 Aldrin

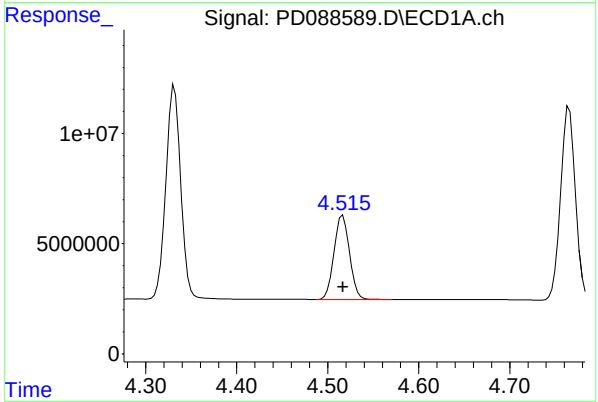
R.T.: 5.273 min
Delta R.T.: 0.000 min
Response: 106262467
Conc: 24.15 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC025



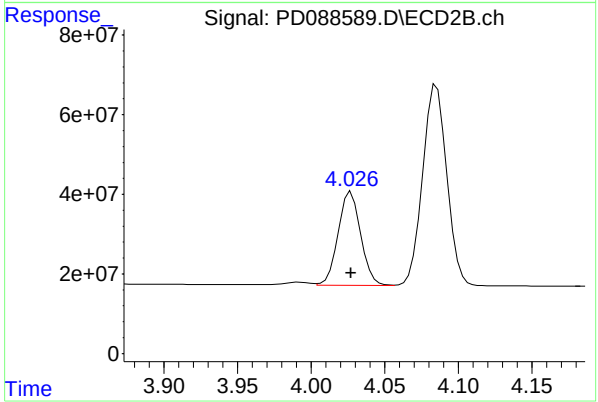
#5 Aldrin

R.T.: 4.371 min
Delta R.T.: 0.000 min
Response: 561524404
Conc: 26.58 ng/ml



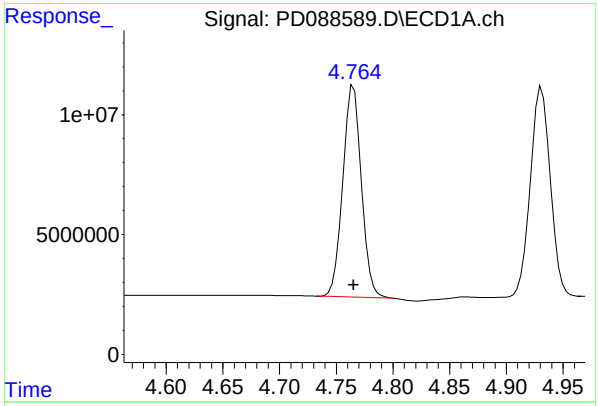
#6 beta-BHC

R.T.: 4.517 min
Delta R.T.: 0.000 min
Response: 45318541
Conc: 25.69 ng/ml



#6 beta-BHC

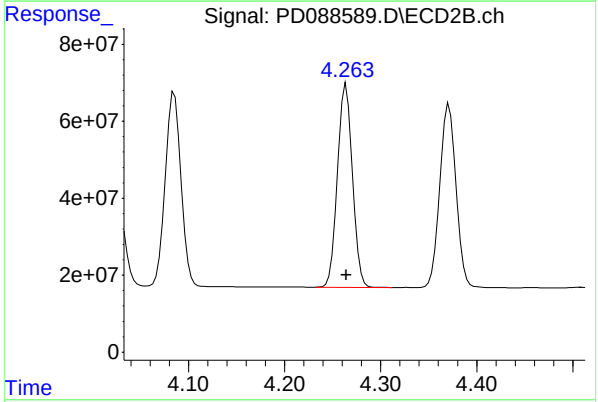
R.T.: 4.027 min
Delta R.T.: 0.000 min
Response: 250289128
Conc: 27.02 ng/ml



#7 delta-BHC

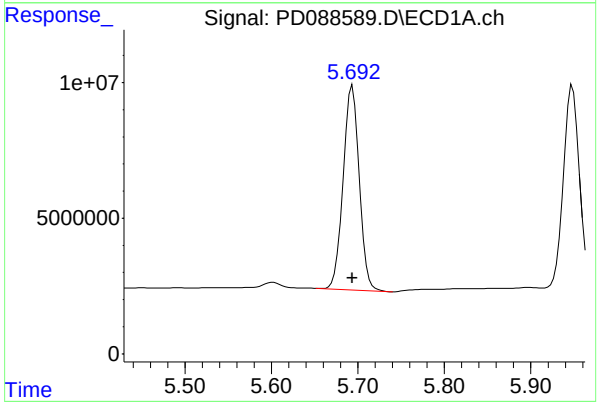
R.T.: 4.765 min
Delta R.T.: 0.000 min
Response: 100451593
Conc: 23.46 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC025



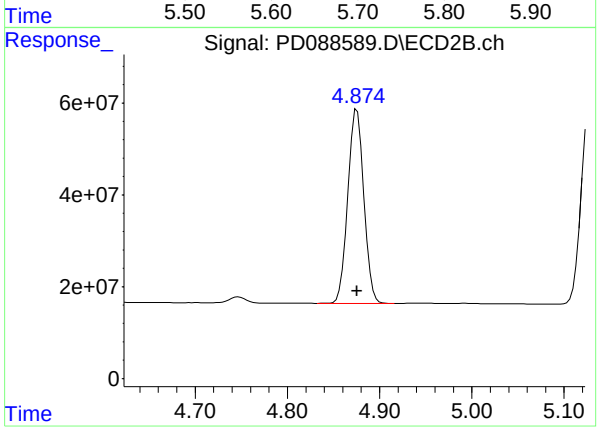
#7 delta-BHC

R.T.: 4.264 min
Delta R.T.: 0.000 min
Response: 564949502
Conc: 26.22 ng/ml



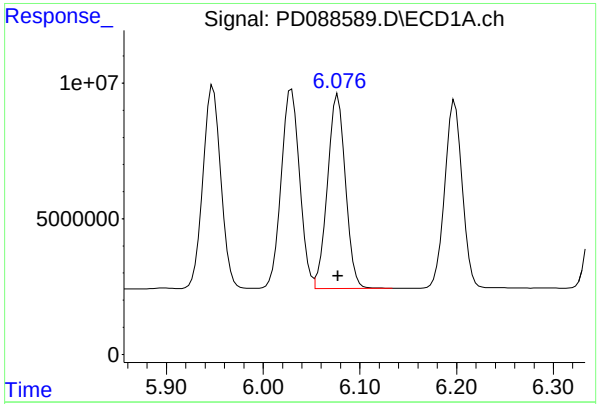
#8 Heptachlor epoxide

R.T.: 5.694 min
Delta R.T.: 0.000 min
Response: 97321186
Conc: 24.84 ng/ml



#8 Heptachlor epoxide

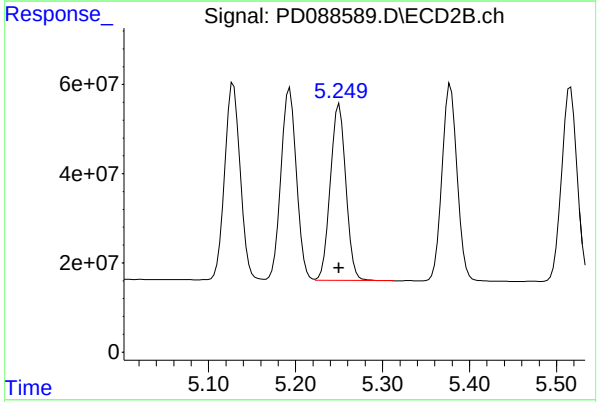
R.T.: 4.875 min
Delta R.T.: 0.000 min
Response: 511064484
Conc: 26.93 ng/ml



#9 Endosulfan I

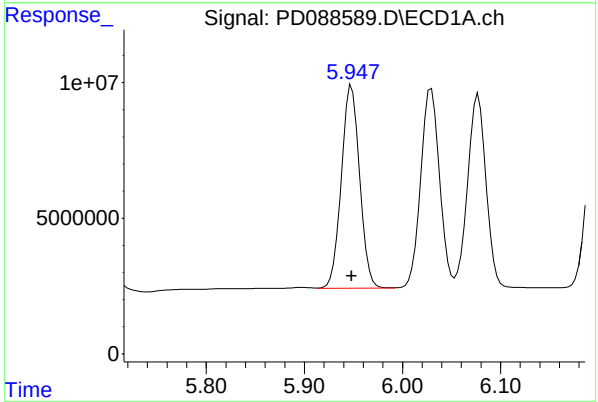
R.T.: 6.077 min
Delta R.T.: 0.000 min
Response: 92653177
Conc: 24.88 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC025



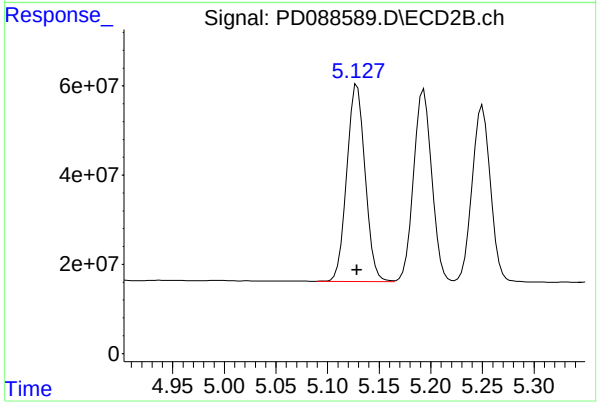
#9 Endosulfan I

R.T.: 5.250 min
Delta R.T.: 0.000 min
Response: 489191411
Conc: 26.98 ng/ml



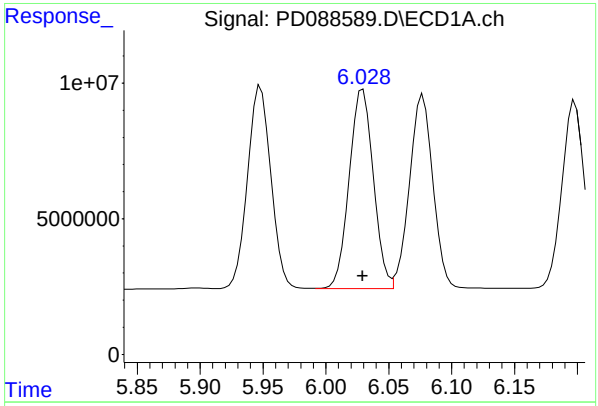
#10 gamma-Chlordane

R.T.: 5.948 min
Delta R.T.: 0.000 min
Response: 96967992
Conc: 24.39 ng/ml



#10 gamma-Chlordane

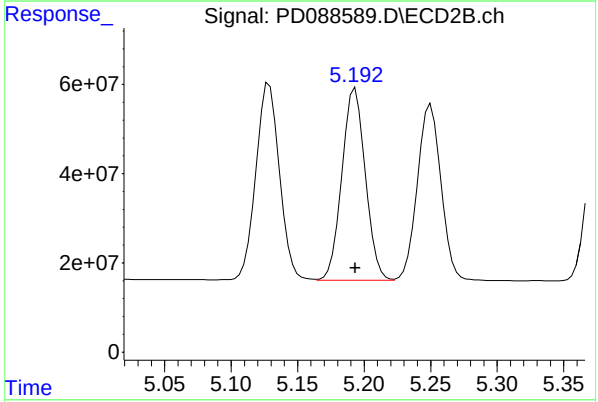
R.T.: 5.129 min
Delta R.T.: 0.000 min
Response: 544825233
Conc: 26.62 ng/ml



#11 alpha-Chlordane

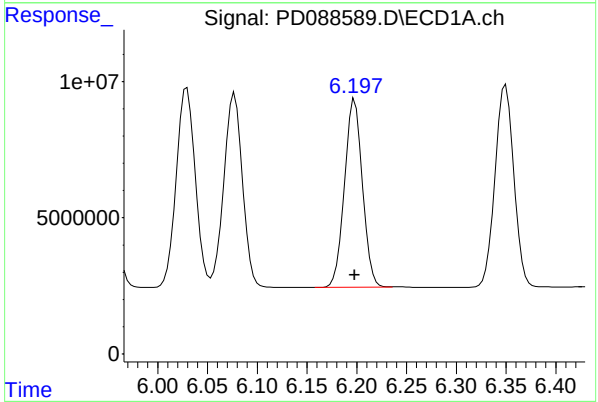
R.T.: 6.029 min
Delta R.T.: 0.000 min
Response: 98047542
Conc: 24.70 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC025



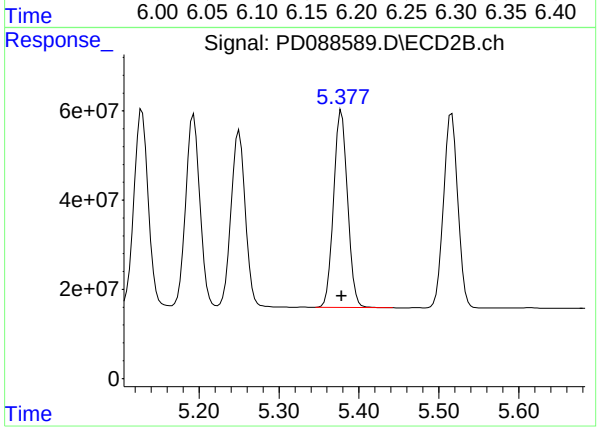
#11 alpha-Chlordane

R.T.: 5.193 min
Delta R.T.: 0.000 min
Response: 528388485
Conc: 26.74 ng/ml



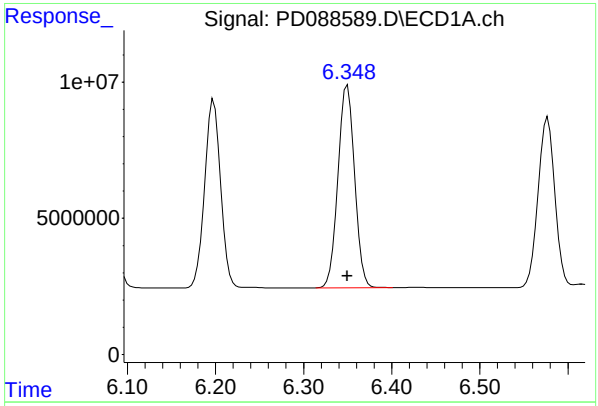
#12 4,4'-DDE

R.T.: 6.198 min
Delta R.T.: 0.000 min
Response: 86803365
Conc: 24.03 ng/ml



#12 4,4'-DDE

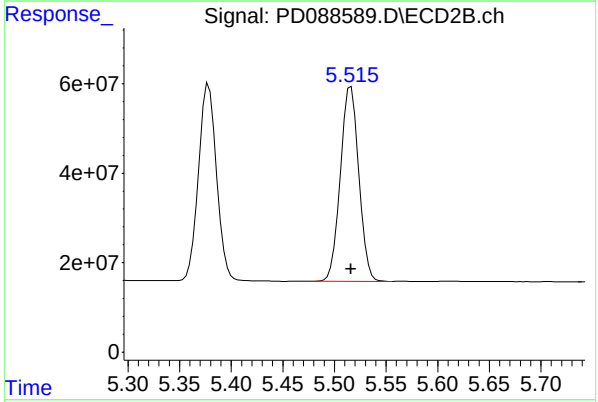
R.T.: 5.378 min
Delta R.T.: 0.000 min
Response: 535939153
Conc: 26.72 ng/ml



#13 Dieldrin

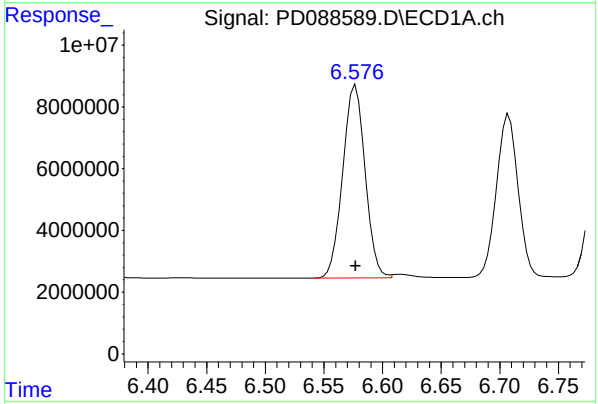
R.T.: 6.350 min
Delta R.T.: 0.000 min
Response: 97792162
Conc: 24.35 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC025



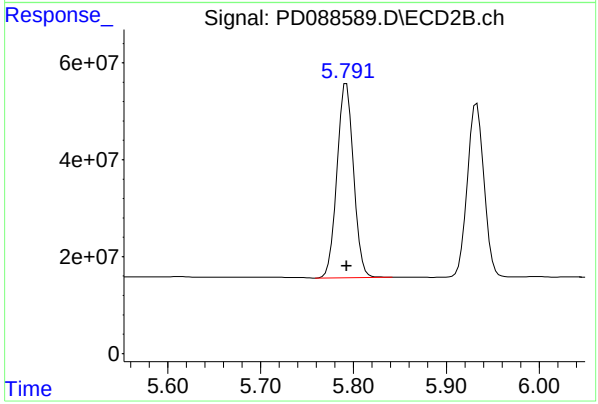
#13 Dieldrin

R.T.: 5.516 min
Delta R.T.: 0.000 min
Response: 540863285
Conc: 26.81 ng/ml



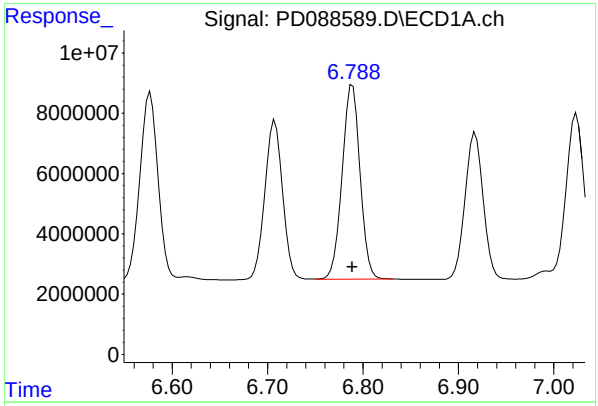
#14 Endrin

R.T.: 6.577 min
Delta R.T.: 0.000 min
Response: 83064769
Conc: 24.32 ng/ml



#14 Endrin

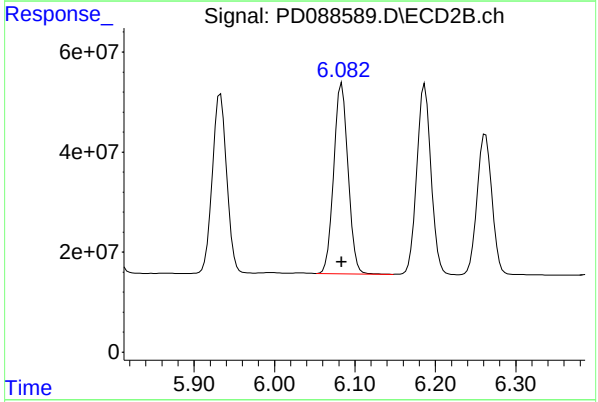
R.T.: 5.792 min
Delta R.T.: 0.000 min
Response: 496294417
Conc: 26.98 ng/ml



#15 Endosulfan II

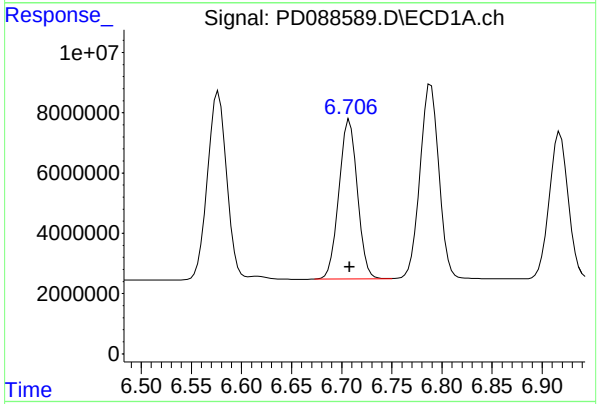
R.T.: 6.789 min
Delta R.T.: 0.000 min
Response: 84533008
Conc: 25.07 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC025



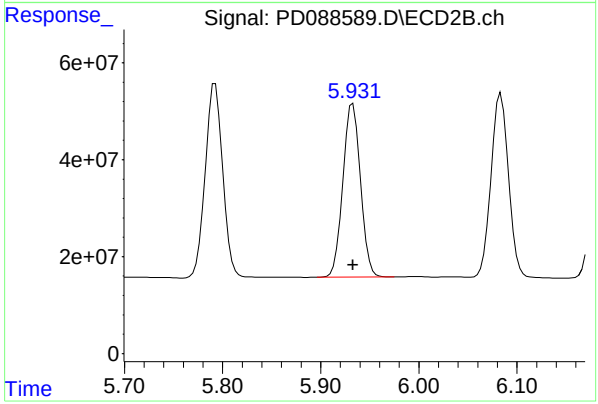
#15 Endosulfan II

R.T.: 6.084 min
Delta R.T.: 0.000 min
Response: 471956340
Conc: 26.98 ng/ml



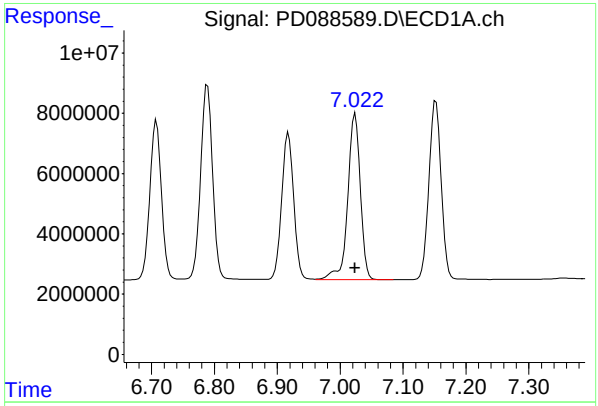
#16 4,4'-DDD

R.T.: 6.708 min
Delta R.T.: 0.000 min
Response: 67771707
Conc: 24.20 ng/ml



#16 4,4'-DDD

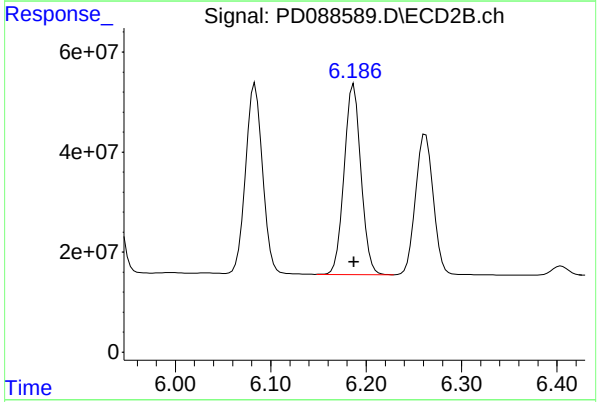
R.T.: 5.933 min
Delta R.T.: 0.000 min
Response: 446837046
Conc: 26.74 ng/ml



#17 4,4'-DDT

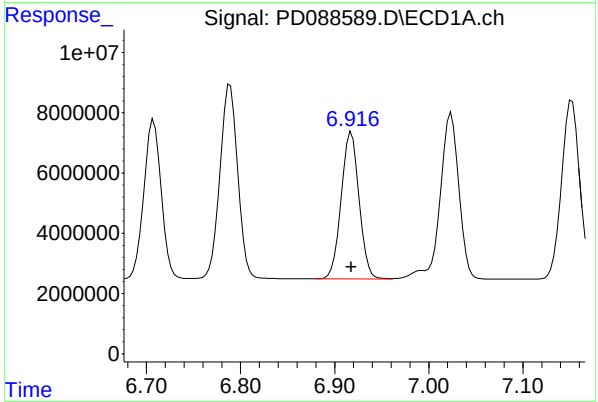
R.T.: 7.024 min
Delta R.T.: 0.000 min
Response: 76236841
Conc: 24.28 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC025



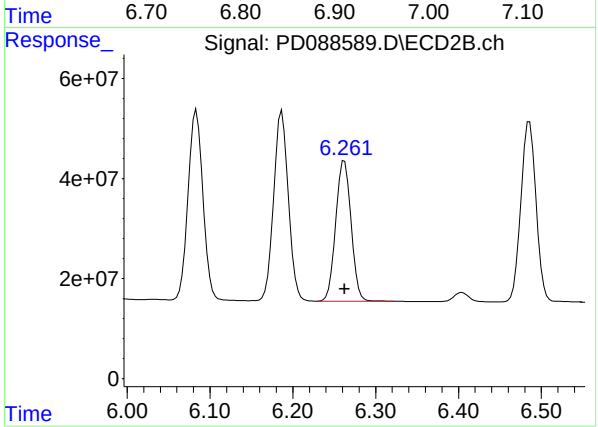
#17 4,4'-DDT

R.T.: 6.187 min
Delta R.T.: 0.000 min
Response: 468206865
Conc: 26.34 ng/ml



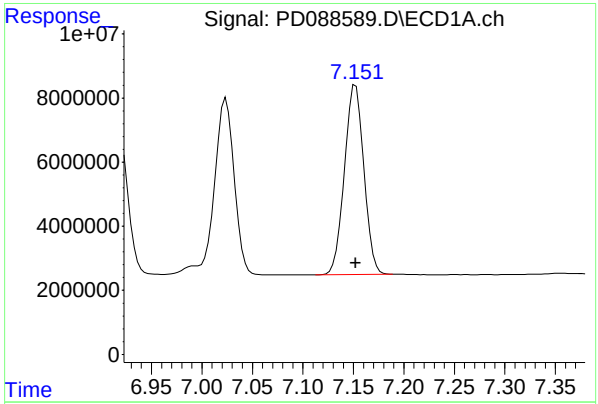
#18 Endrin aldehyde

R.T.: 6.918 min
Delta R.T.: 0.000 min
Response: 64337678
Conc: 25.62 ng/ml



#18 Endrin aldehyde

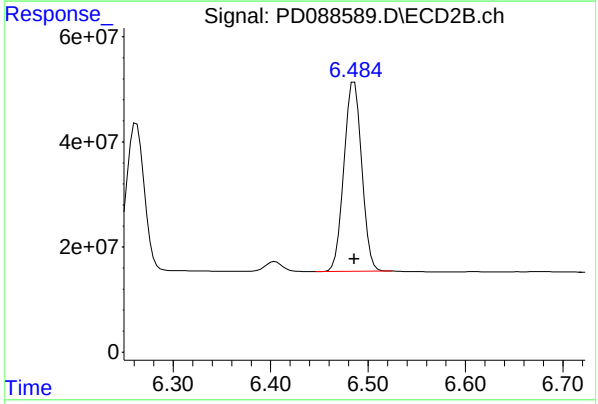
R.T.: 6.262 min
Delta R.T.: 0.000 min
Response: 361136939
Conc: 27.35 ng/ml



#19 Endosulfan Sulfate

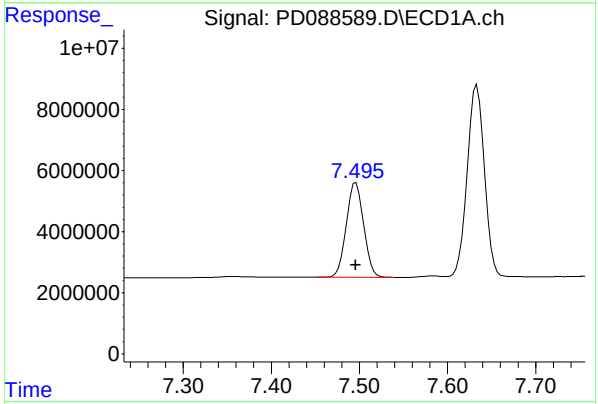
R.T.: 7.152 min
Delta R.T.: 0.000 min
Response: 79398597
Conc: 25.20 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC025



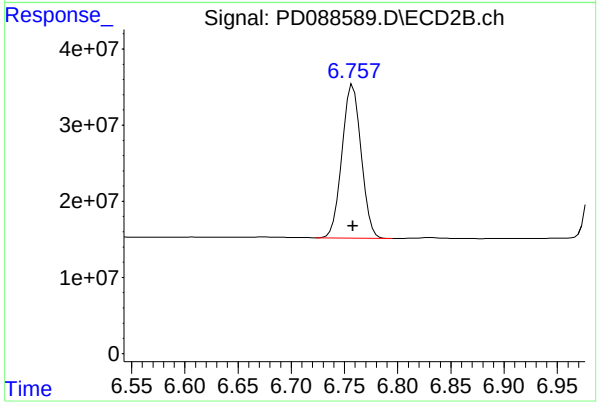
#19 Endosulfan Sulfate

R.T.: 6.486 min
Delta R.T.: 0.000 min
Response: 457737677
Conc: 27.05 ng/ml



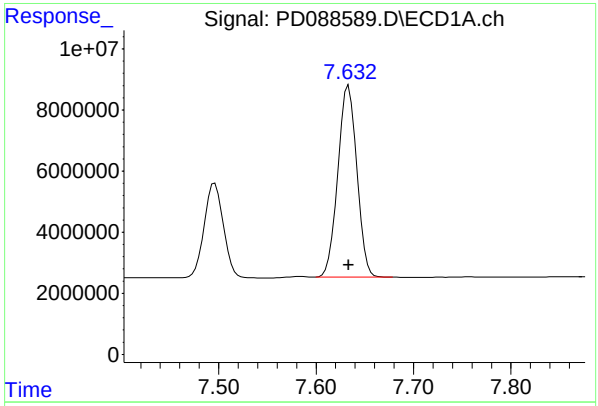
#20 Methoxychlor

R.T.: 7.496 min
Delta R.T.: 0.000 min
Response: 42446886
Conc: 26.00 ng/ml



#20 Methoxychlor

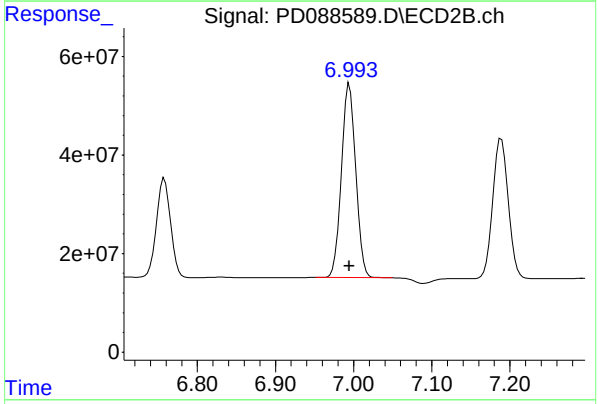
R.T.: 6.758 min
Delta R.T.: 0.000 min
Response: 251459859
Conc: 27.39 ng/ml



#21 Endrin ketone

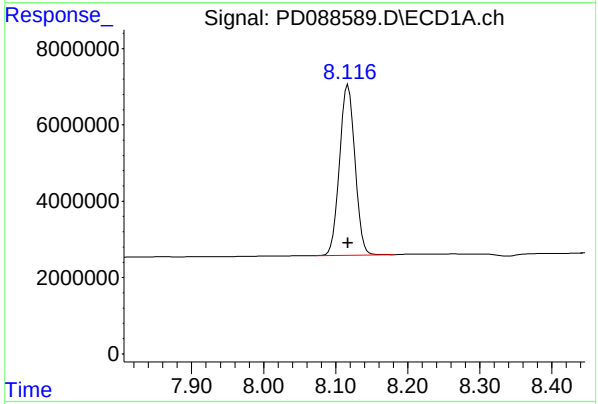
R.T.: 7.633 min
Delta R.T.: 0.000 min
Response: 84948689
Conc: 25.06 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC025



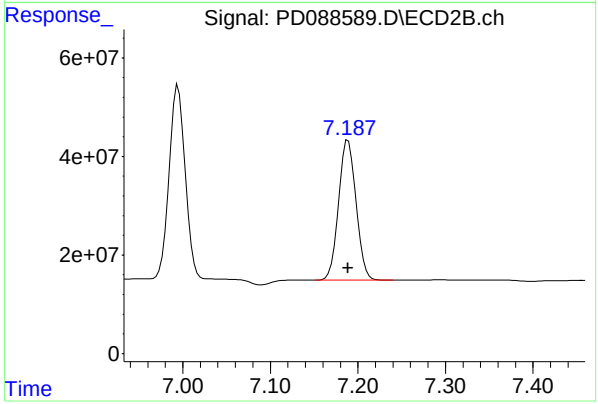
#21 Endrin ketone

R.T.: 6.995 min
Delta R.T.: 0.000 min
Response: 501570732
Conc: 27.14 ng/ml



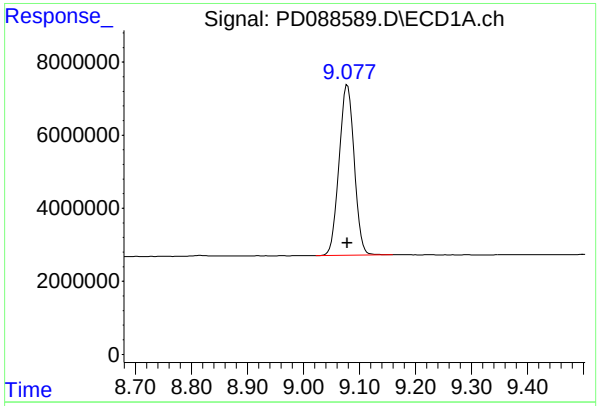
#22 Mirex

R.T.: 8.117 min
Delta R.T.: 0.000 min
Response: 66265705
Conc: 26.61 ng/ml



#22 Mirex

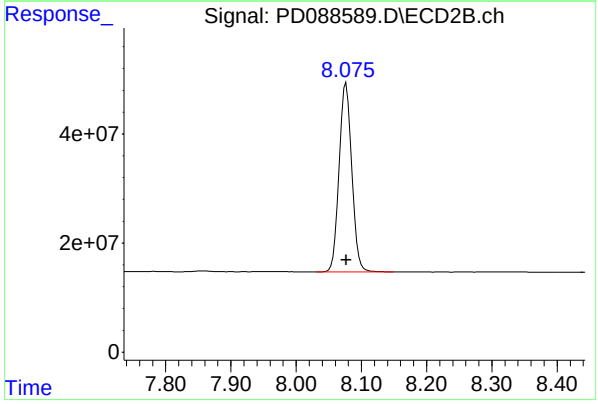
R.T.: 7.189 min
Delta R.T.: 0.000 min
Response: 393564252
Conc: 27.40 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.079 min
Delta R.T.: 0.000 min
Response: 87605286
Conc: 26.63 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC025



#28 Decachlorobiphenyl

R.T.: 8.077 min
Delta R.T.: 0.000 min
Response: 467684783
Conc: 27.05 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088590.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 12:25
Operator : AR\AJ
Sample : PSTDICC005
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC005

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 12:51:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 12:41:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
1)	SA	Tetrachlo...	3.550	2.882	11569731	87743326	5.347	5.800
28)	SA	Decachlor...	9.077	8.076	19763753	110.7E6	5.775	6.062
		Target Compounds						
2)	A	alpha-BHC	4.000	3.394	21526558	133.6E6	4.507	5.590
3)	MA	gamma-BHC...	4.331	3.731	21657318	125.1E6	4.705	5.645
4)	MA	Heptachlor	4.930	4.084	22201889	130.3E6	4.940m	5.801
5)	MB	Aldrin	5.273	4.370	21861853	125.7E6	4.975	5.734
6)	B	beta-BHC	4.516	4.027	9793458	58294427	5.431	5.984
7)	B	delta-BHC	4.764	4.264	20011375	126.5E6	4.735	5.674
8)	B	Heptachlo...	5.691	4.874	20863576	117.3E6	5.267m	5.903
9)	A	Endosulfan I	6.076	5.249	19604836	111.8E6	5.210	5.892
10)	B	gamma-Chl...	5.948	5.128	20203660	123.9E6	5.065	5.808
11)	B	alpha-Chl...	6.029	5.192	20755365	120.4E6	5.181	5.840
12)	B	4,4'-DDE	6.198	5.378	17503651	121.5E6	4.877	5.812
13)	MA	Dieldrin	6.349	5.515	19976132	122.7E6	4.979	5.830
14)	MA	Endrin	6.577	5.792	17082110	114.2E6	5.002	5.923
15)	B	Endosulfa...	6.788	6.083	18646050	108.1E6	5.415	5.903
16)	A	4,4'-DDD	6.707	5.932	13611843	100.6E6	4.887	5.786
17)	MA	4,4'-DDT	7.023	6.186	15258865	97907648	4.887	5.398
18)	B	Endrin al...	6.917	6.261	14132008	84167396	5.489	6.043
19)	B	Endosulfa...	7.152	6.485	17063513	105.5E6	5.327	5.940
20)	A	Methoxychlor	7.496	6.758	9112300	55786563	5.455	5.826
21)	B	Endrin ke...	7.633	6.995	17773939	114.1E6	5.192	5.898
22)		Mirex	8.117	7.189	15159249	92799571	5.834	6.104

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088590.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 12:25
Operator : AR\AJ
Sample : PSTDICC005
Misc :
ALS Vial : 9 Sample Multiplier: 1

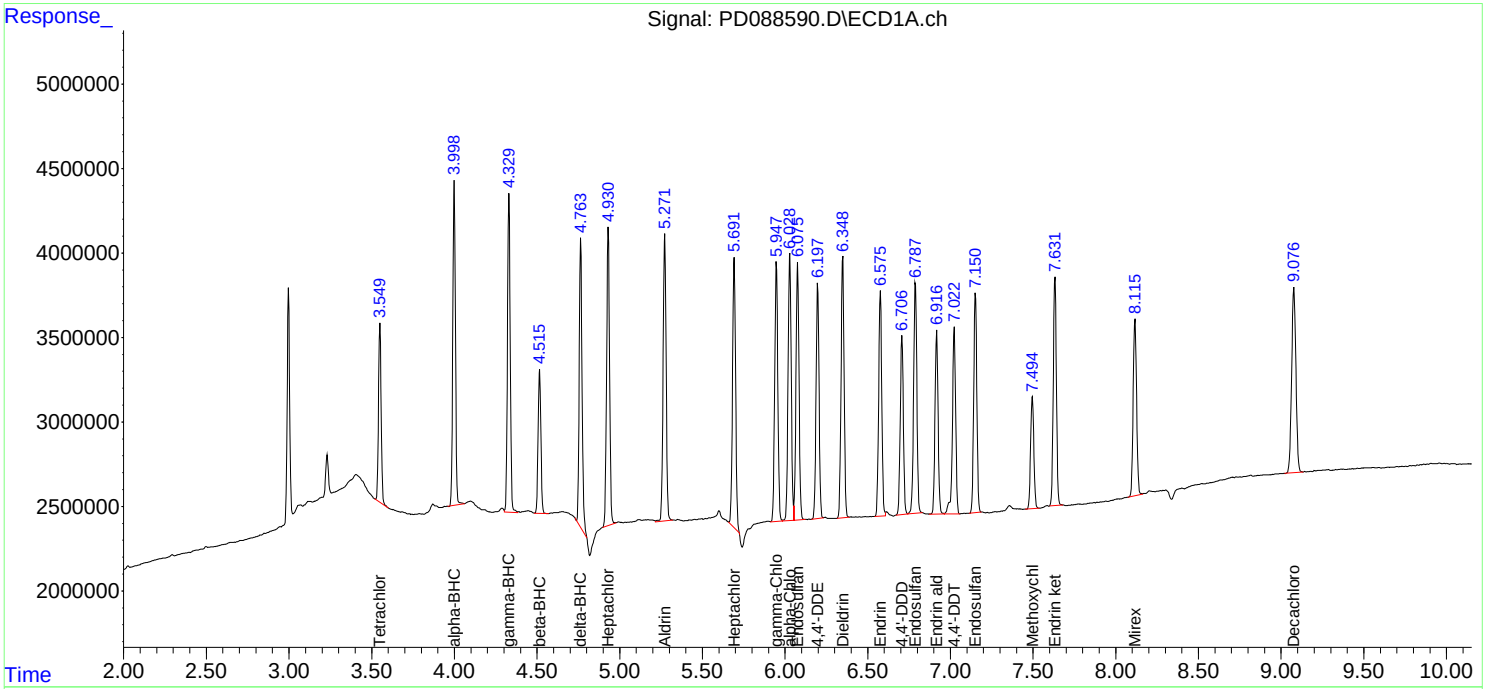
Instrument :
ECD_D
ClientSampleId :
PSTDICC005

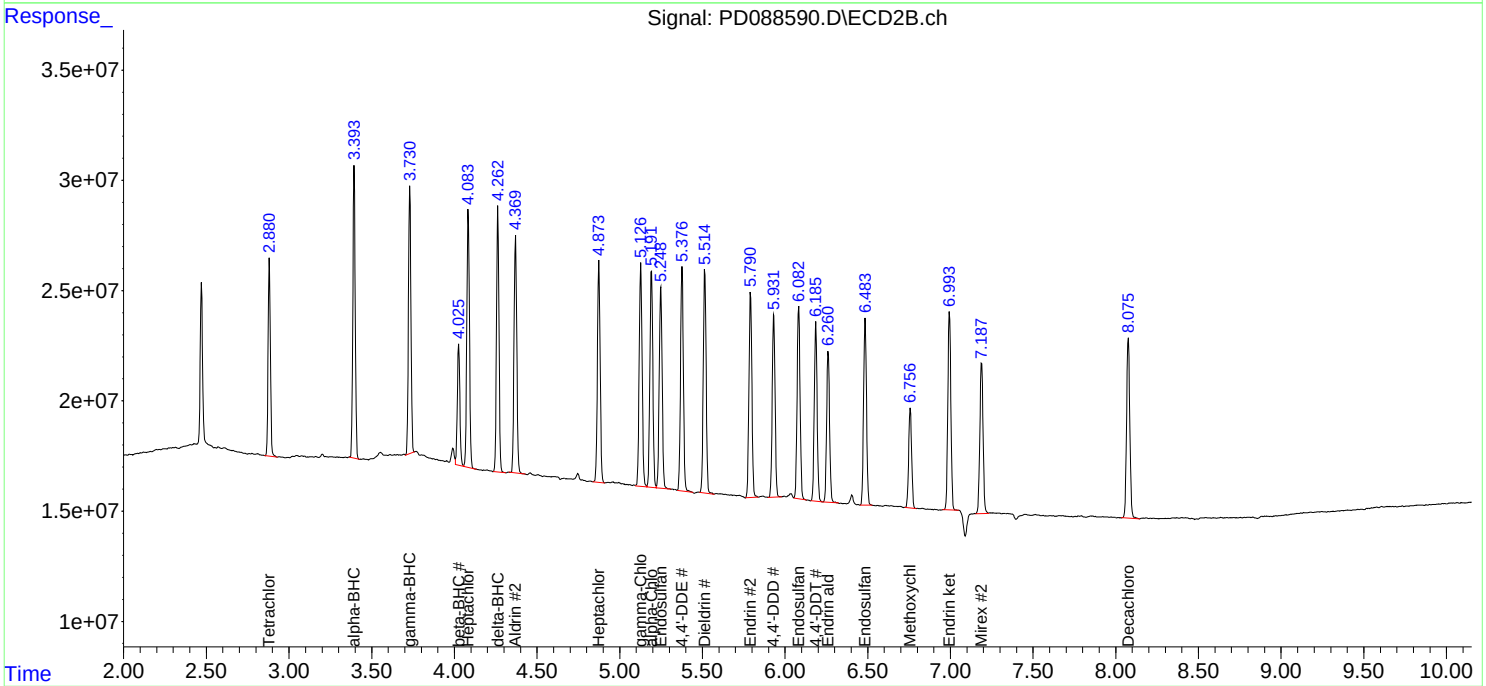
Manual Integrations APPROVED

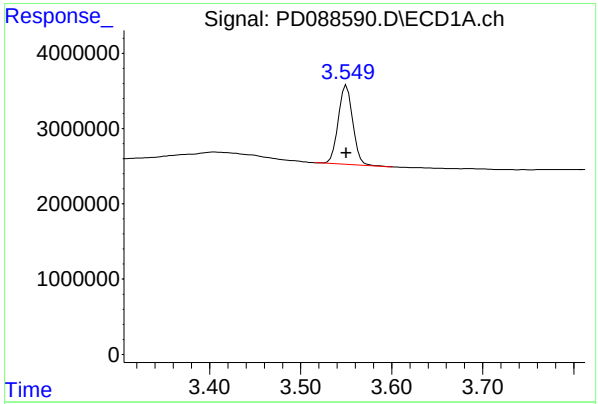
Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 12:51:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 12:41:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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







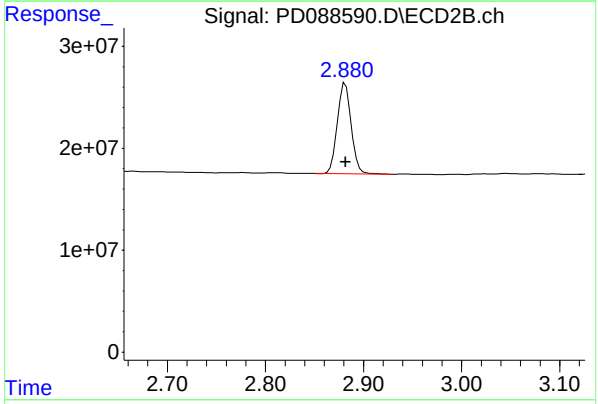
#1 Tetrachloro-m-xylene

R.T.: 3.550 min
Delta R.T.: 0.000 min
Response: 11569731
Conc: 5.35 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005

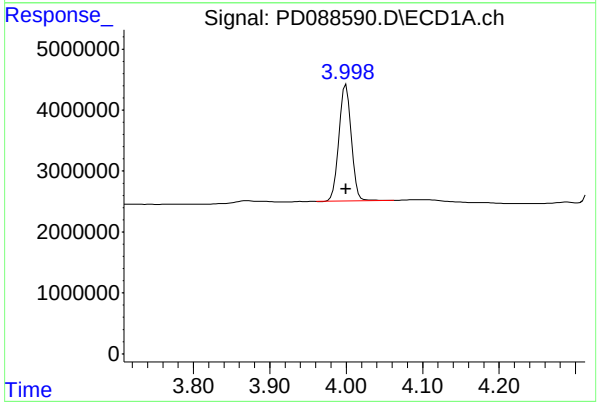
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



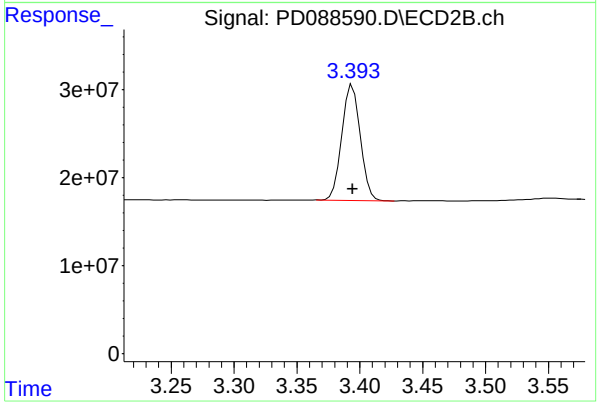
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 87743326
Conc: 5.80 ng/ml



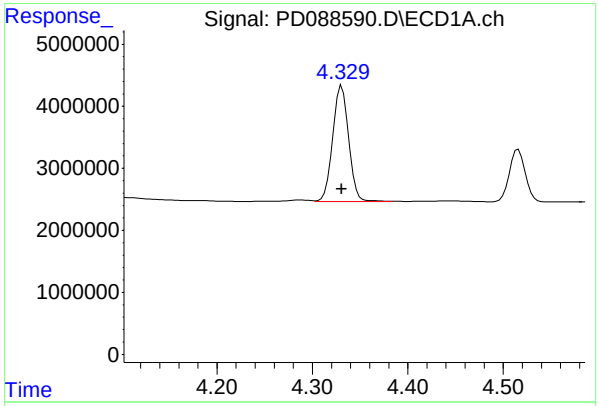
#2 alpha-BHC

R.T.: 4.000 min
Delta R.T.: 0.000 min
Response: 21526558
Conc: 4.51 ng/ml



#2 alpha-BHC

R.T.: 3.394 min
Delta R.T.: 0.000 min
Response: 133631486
Conc: 5.59 ng/ml



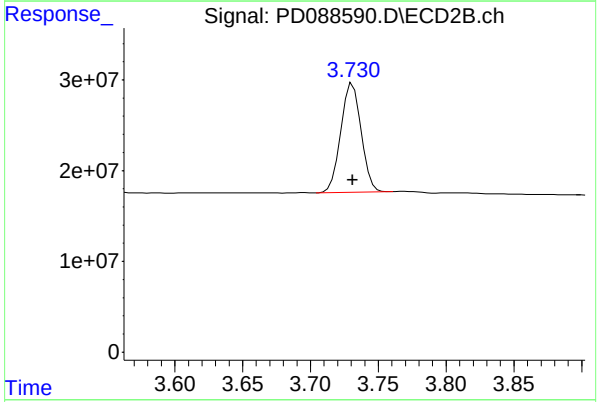
#3 gamma-BHC (Lindane)

R.T.: 4.331 min
Delta R.T.: 0.000 min
Response: 21657318
Conc: 4.71 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005

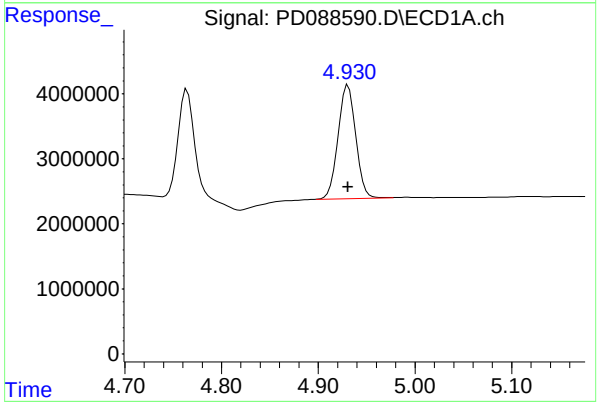
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



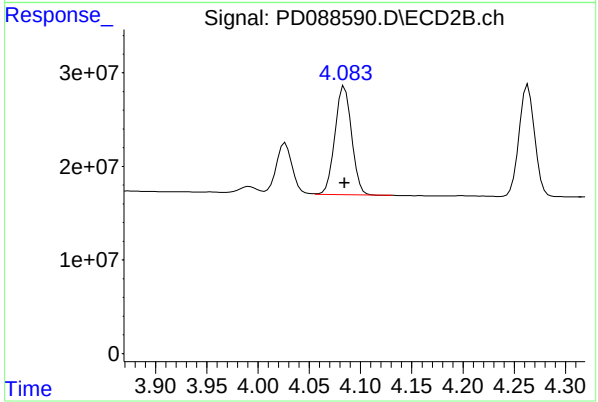
#3 gamma-BHC (Lindane)

R.T.: 3.731 min
Delta R.T.: 0.000 min
Response: 125133932
Conc: 5.65 ng/ml



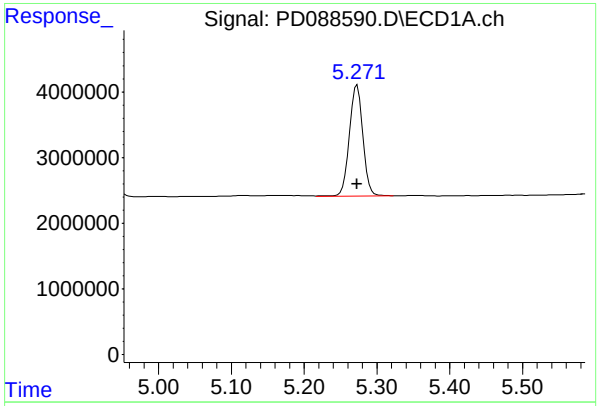
#4 Heptachlor

R.T.: 4.930 min
Delta R.T.: -0.001 min
Response: 22201889
Conc: 4.94 ng/ml m



#4 Heptachlor

R.T.: 4.084 min
Delta R.T.: 0.000 min
Response: 130254372
Conc: 5.80 ng/ml



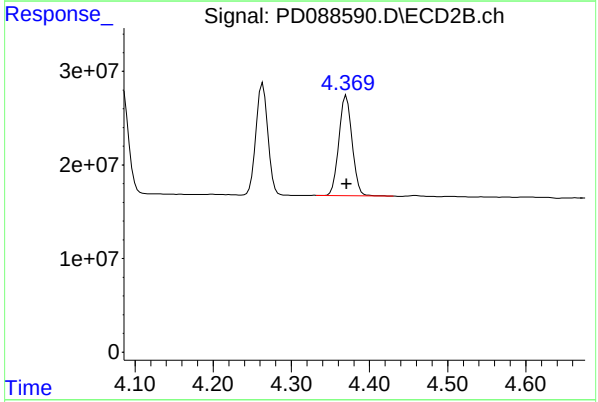
#5 Aldrin

R.T.: 5.273 min
Delta R.T.: 0.000 min
Response: 21861853
Conc: 4.97 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005

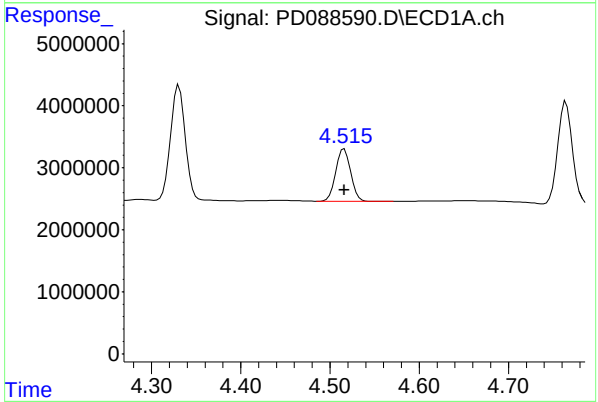
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



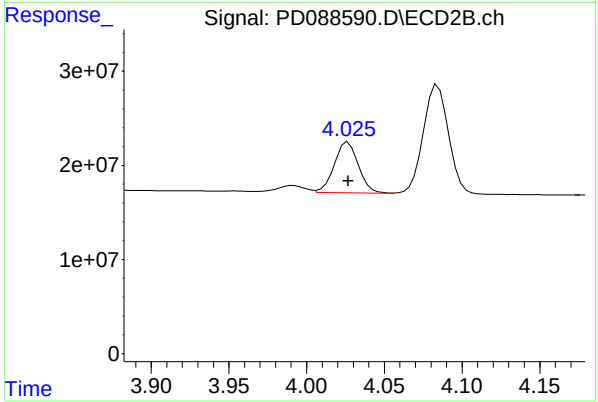
#5 Aldrin

R.T.: 4.370 min
Delta R.T.: 0.000 min
Response: 125739574
Conc: 5.73 ng/ml



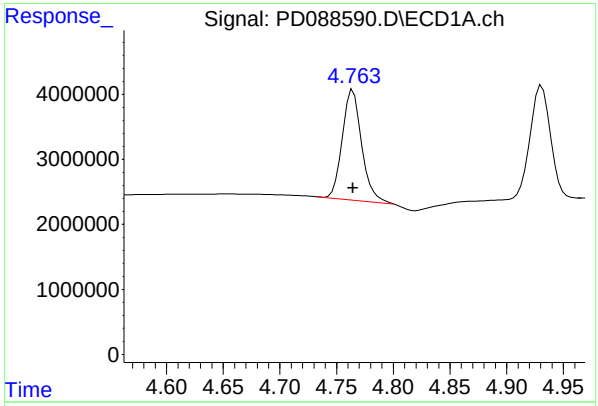
#6 beta-BHC

R.T.: 4.516 min
Delta R.T.: 0.000 min
Response: 9793458
Conc: 5.43 ng/ml



#6 beta-BHC

R.T.: 4.027 min
Delta R.T.: 0.000 min
Response: 58294427
Conc: 5.98 ng/ml



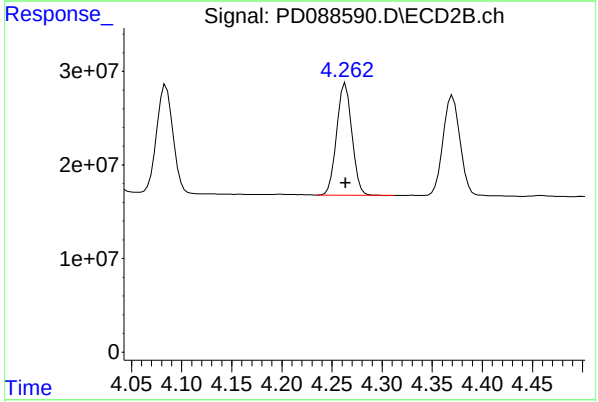
#7 delta-BHC

R.T.: 4.764 min
Delta R.T.: 0.000 mi
Response: 20011375
Conc: 4.74 ng/m

Instrument :
ECD_D
ClientSampleId :
PSTDICC005

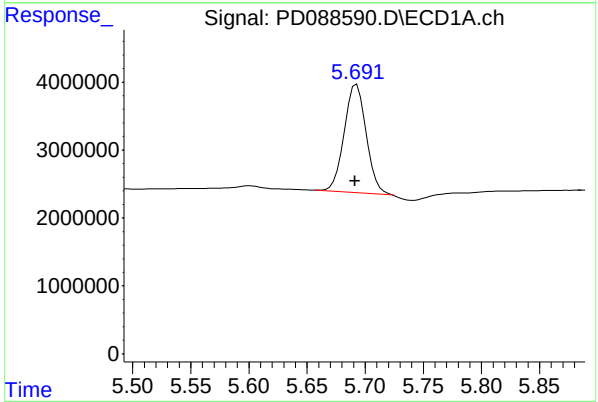
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



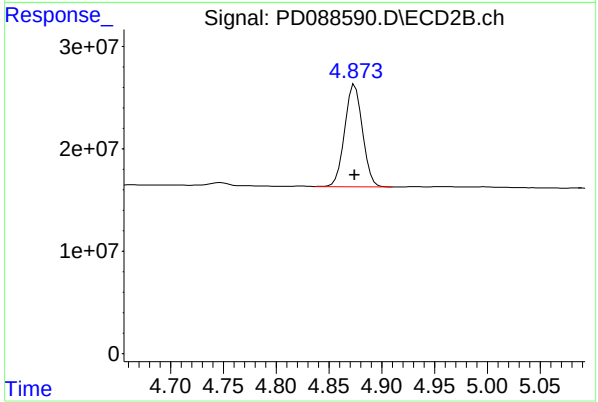
#7 delta-BHC

R.T.: 4.264 min
Delta R.T.: 0.000 min
Response: 126492727
Conc: 5.67 ng/ml



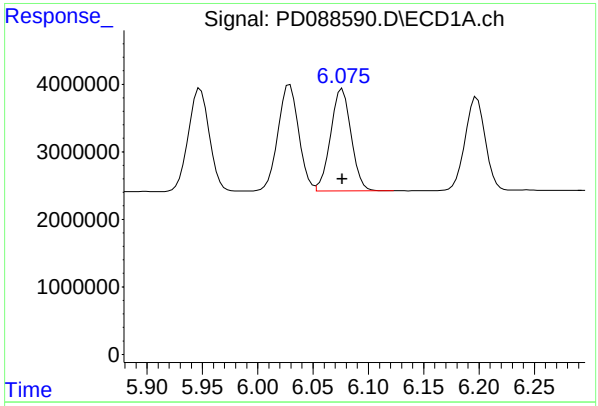
#8 Heptachlor epoxide

R.T.: 5.691 min
Delta R.T.: 0.000 min
Response: 20863576
Conc: 5.27 ng/ml m



#8 Heptachlor epoxide

R.T.: 4.874 min
Delta R.T.: 0.000 min
Response: 117295268
Conc: 5.90 ng/ml



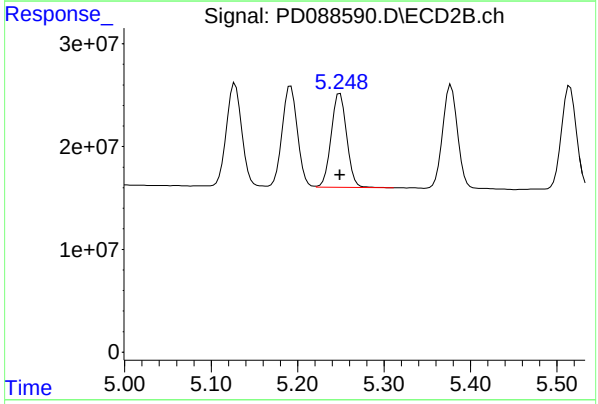
#9 Endosulfan I

R.T.: 6.076 min
Delta R.T.: 0.000 min
Response: 19604836
Conc: 5.21 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005

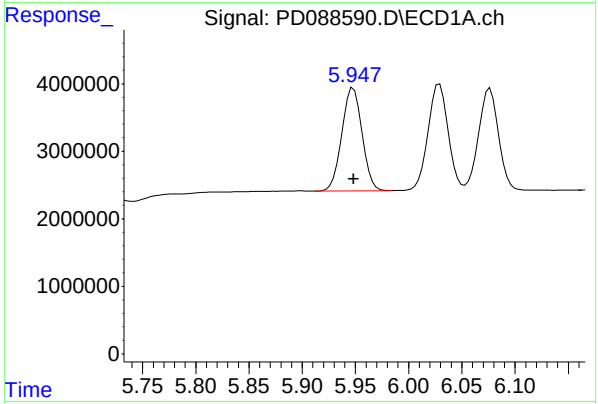
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



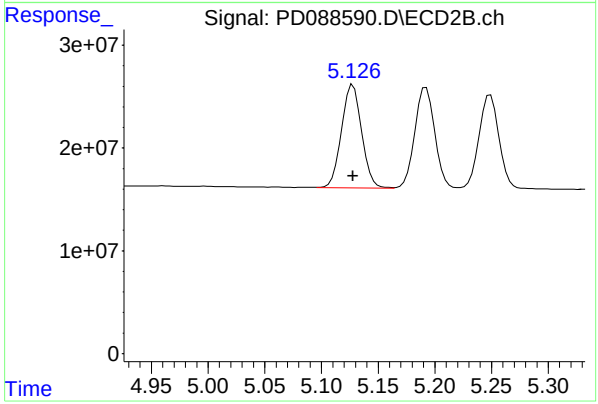
#9 Endosulfan I

R.T.: 5.249 min
Delta R.T.: 0.000 min
Response: 111827302
Conc: 5.89 ng/ml



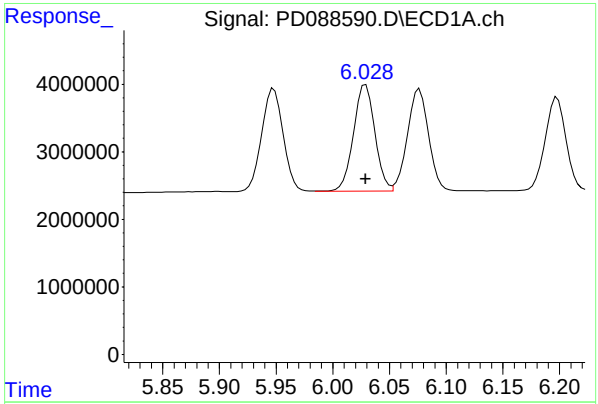
#10 gamma-Chlordane

R.T.: 5.948 min
Delta R.T.: 0.000 min
Response: 20203660
Conc: 5.06 ng/ml



#10 gamma-Chlordane

R.T.: 5.128 min
Delta R.T.: 0.000 min
Response: 123892575
Conc: 5.81 ng/ml



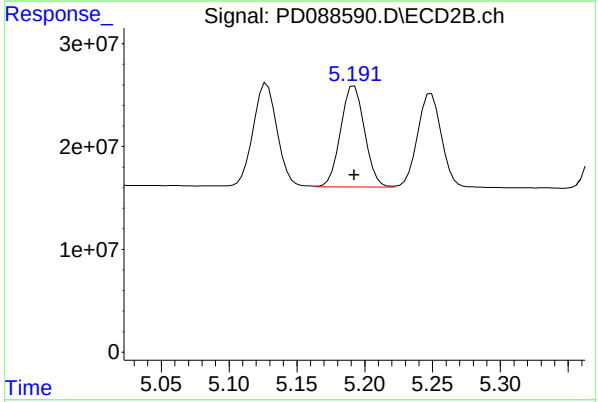
#11 alpha-Chlordane

R.T.: 6.029 min
Delta R.T.: 0.000 min
Response: 20755365
Conc: 5.18 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005

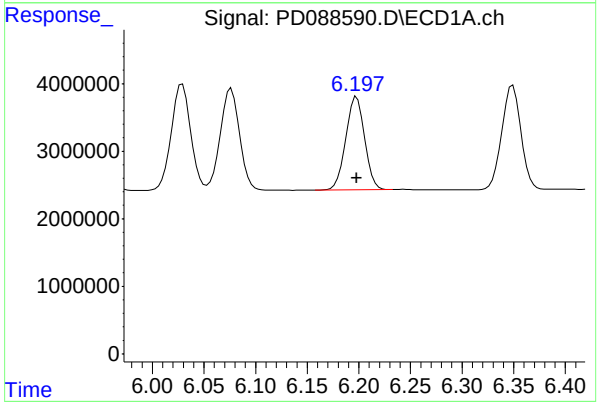
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



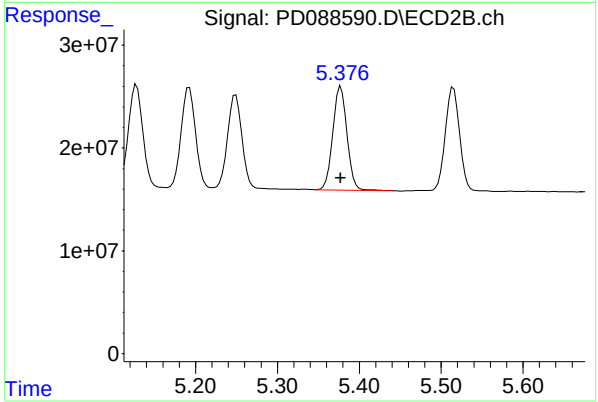
#11 alpha-Chlordane

R.T.: 5.192 min
Delta R.T.: 0.000 min
Response: 120444919
Conc: 5.84 ng/ml



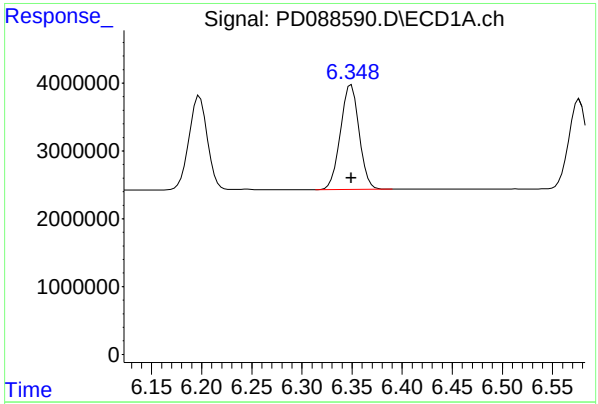
#12 4,4'-DDE

R.T.: 6.198 min
Delta R.T.: 0.000 min
Response: 17503651
Conc: 4.88 ng/ml



#12 4,4'-DDE

R.T.: 5.378 min
Delta R.T.: 0.000 min
Response: 121489802
Conc: 5.81 ng/ml



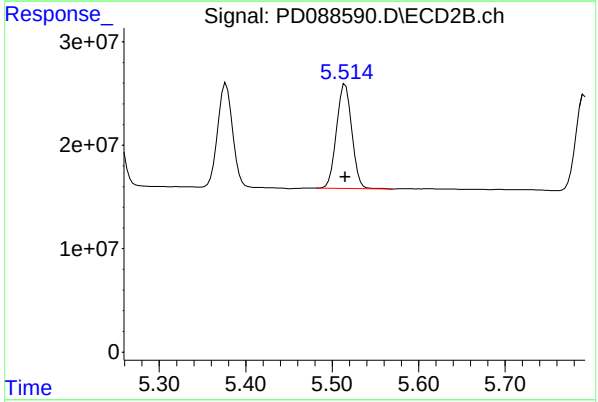
#13 Dieldrin

R.T.: 6.349 min
Delta R.T.: 0.000 min
Response: 19976132
Conc: 4.98 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005

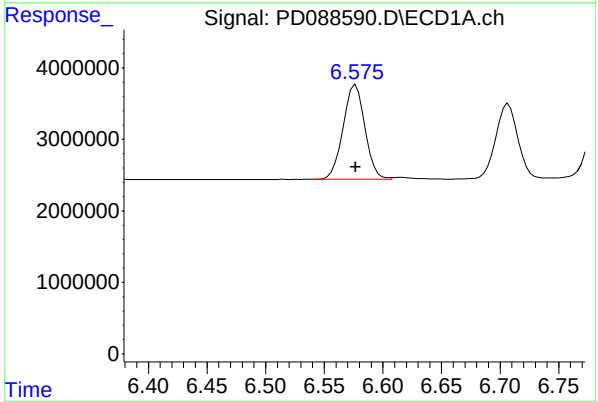
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



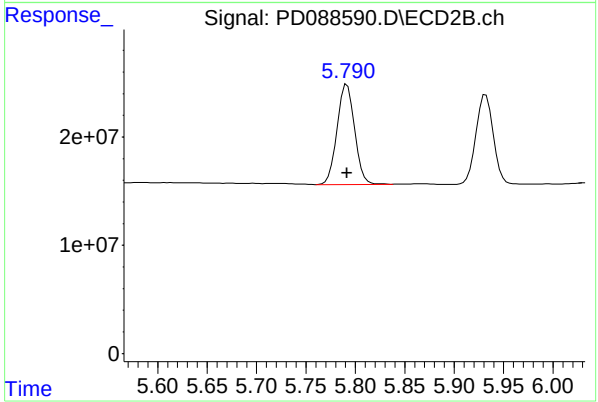
#13 Dieldrin

R.T.: 5.515 min
Delta R.T.: 0.000 min
Response: 122680748
Conc: 5.83 ng/ml



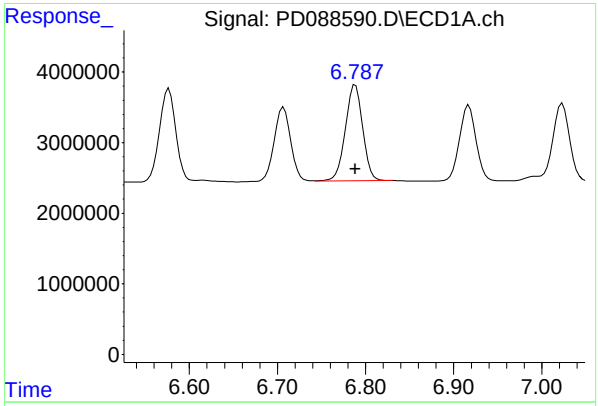
#14 Endrin

R.T.: 6.577 min
Delta R.T.: 0.000 min
Response: 17082110
Conc: 5.00 ng/ml



#14 Endrin

R.T.: 5.792 min
Delta R.T.: 0.000 min
Response: 114212828
Conc: 5.92 ng/ml



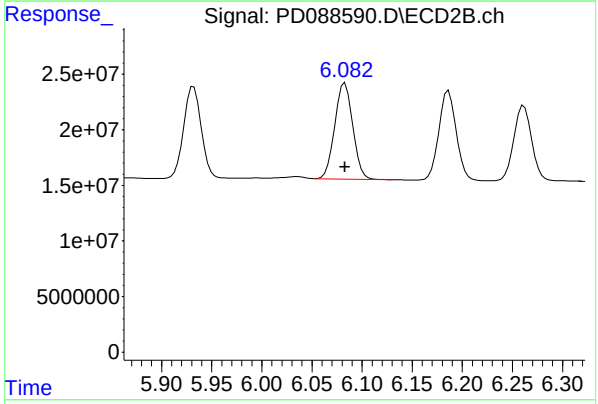
#15 Endosulfan II

R.T.: 6.788 min
Delta R.T.: 0.000 min
Response: 18646050
Conc: 5.41 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005

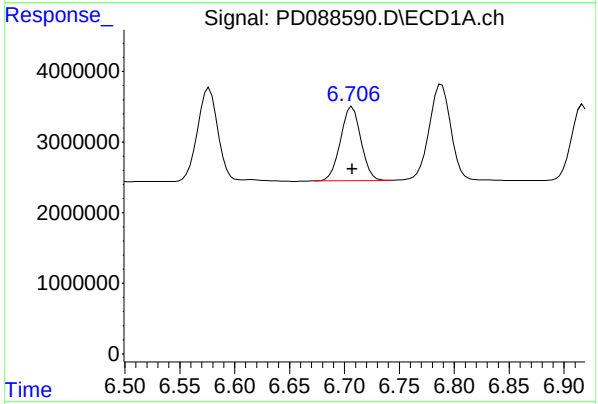
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



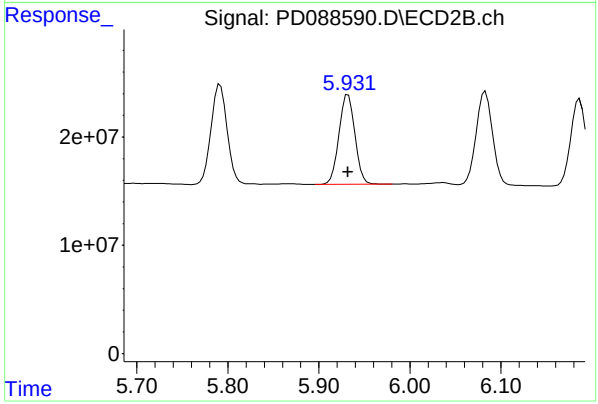
#15 Endosulfan II

R.T.: 6.083 min
Delta R.T.: 0.000 min
Response: 108145535
Conc: 5.90 ng/ml



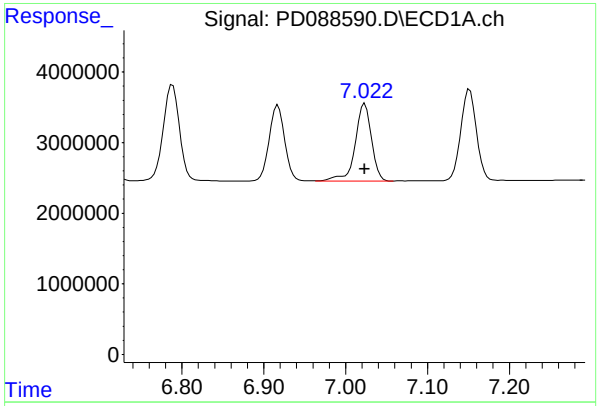
#16 4,4'-DDD

R.T.: 6.707 min
Delta R.T.: 0.000 min
Response: 13611843
Conc: 4.89 ng/ml



#16 4,4'-DDD

R.T.: 5.932 min
Delta R.T.: 0.000 min
Response: 100635659
Conc: 5.79 ng/ml



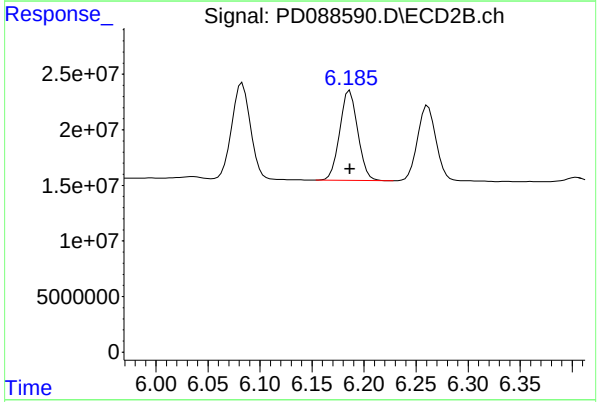
#17 4,4'-DDT

R.T.: 7.023 min
Delta R.T.: 0.000 min
Response: 15258865
Conc: 4.89 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005

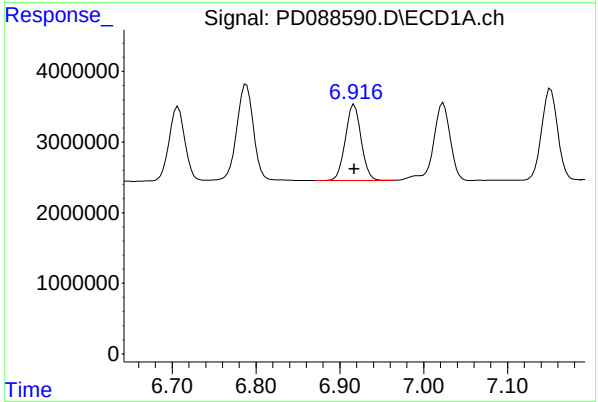
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



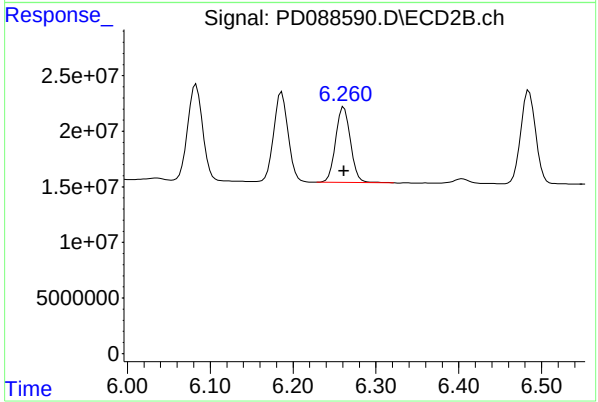
#17 4,4'-DDT

R.T.: 6.186 min
Delta R.T.: 0.000 min
Response: 97907648
Conc: 5.40 ng/ml



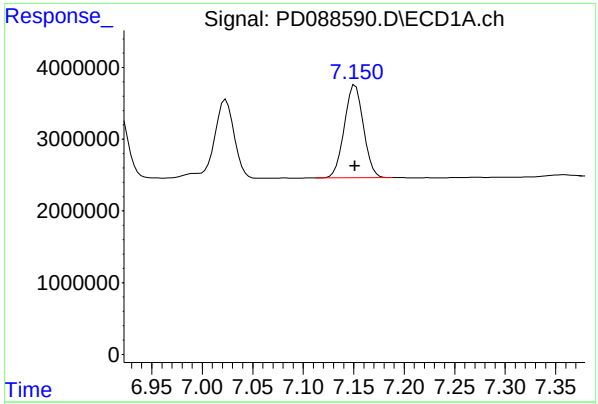
#18 Endrin aldehyde

R.T.: 6.917 min
Delta R.T.: 0.000 min
Response: 14132008
Conc: 5.49 ng/ml



#18 Endrin aldehyde

R.T.: 6.261 min
Delta R.T.: 0.000 min
Response: 84167396
Conc: 6.04 ng/ml



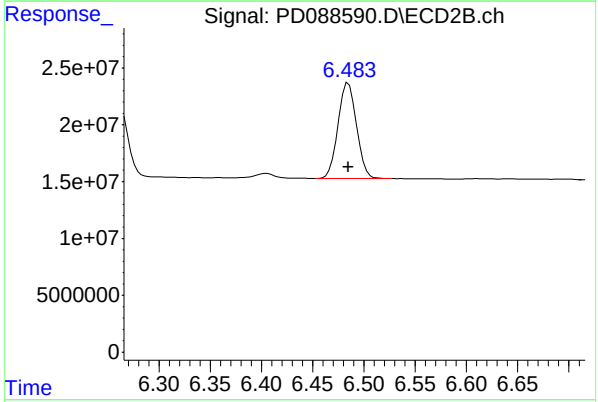
#19 Endosulfan Sulfate

R.T.: 7.152 min
Delta R.T.: 0.000 min
Response: 17063513
Conc: 5.33 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005

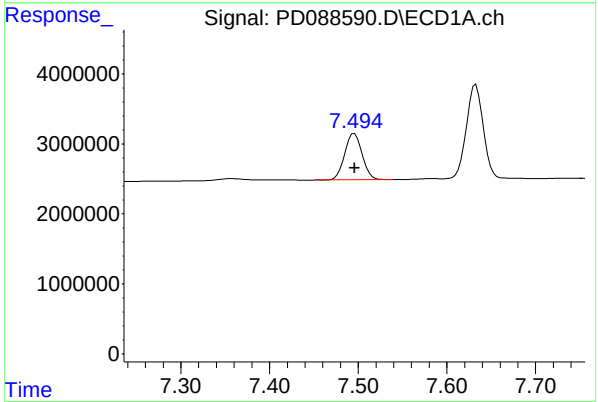
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



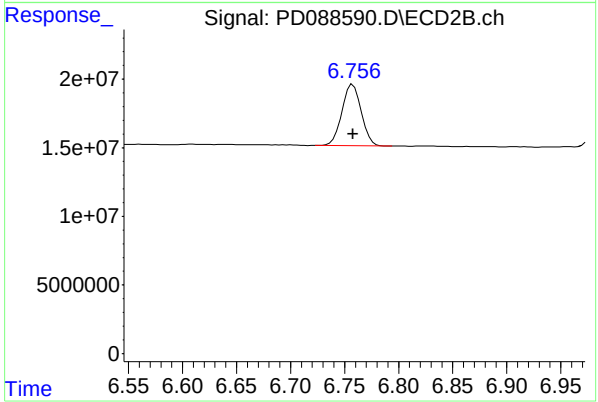
#19 Endosulfan Sulfate

R.T.: 6.485 min
Delta R.T.: 0.000 min
Response: 105463408
Conc: 5.94 ng/ml



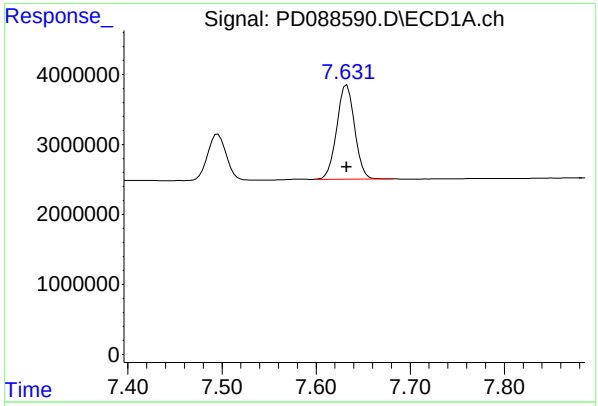
#20 Methoxychlor

R.T.: 7.496 min
Delta R.T.: 0.000 min
Response: 9112300
Conc: 5.45 ng/ml



#20 Methoxychlor

R.T.: 6.758 min
Delta R.T.: 0.000 min
Response: 55786563
Conc: 5.83 ng/ml



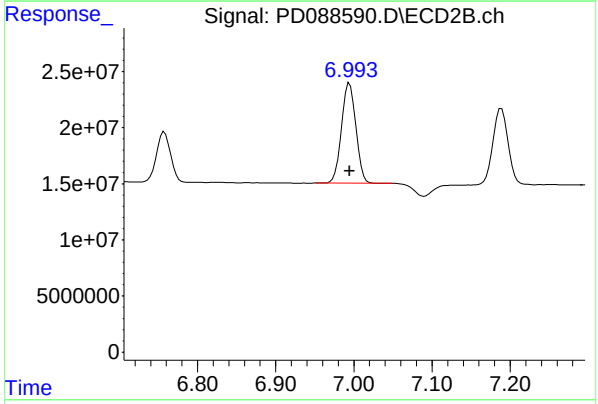
#21 Endrin ketone

R.T.: 7.633 min
Delta R.T.: 0.000 min
Response: 17773939
Conc: 5.19 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005

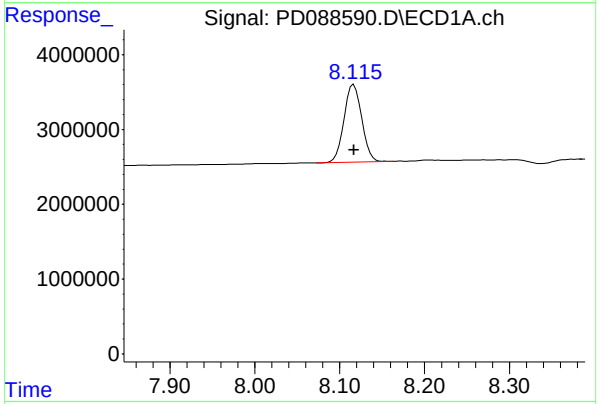
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



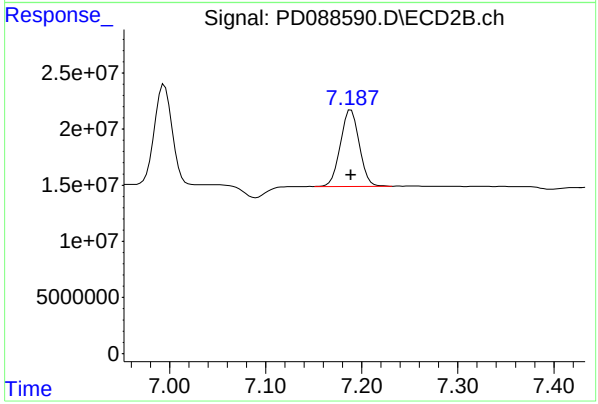
#21 Endrin ketone

R.T.: 6.995 min
Delta R.T.: 0.000 min
Response: 114101930
Conc: 5.90 ng/ml



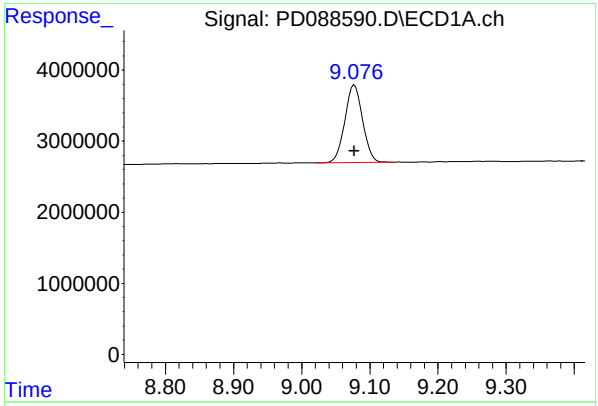
#22 Mirex

R.T.: 8.117 min
Delta R.T.: 0.000 min
Response: 15159249
Conc: 5.83 ng/ml



#22 Mirex

R.T.: 7.189 min
Delta R.T.: 0.000 min
Response: 92799571
Conc: 6.10 ng/ml



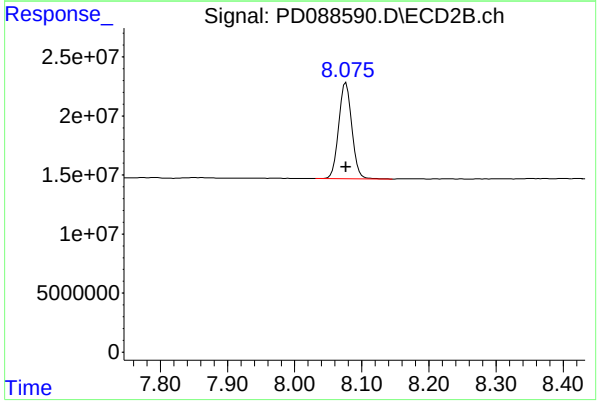
#28 Decachlorobiphenyl

R.T.: 9.077 min
Delta R.T.: 0.000 min
Response: 19763753
Conc: 5.77 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 110669719
Conc: 6.06 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088593.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 13:06
Operator : AR\AJ
Sample : PCHLORICC500
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PCHLORICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 13:27:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 13:26:49 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1) SA	Tetrachlo...	3.551	2.882	104.8E6	916.8E6	50.000	50.000
28) SA	Decachlor...	9.077	8.077	161.3E6	859.8E6	50.000	50.000
	Target Compounds						
23)	Chlordane-1	4.717	3.907	87638607	406.5E6	500.000	500.000
24)	Chlordane-2	5.243	4.489	89727196	411.3E6	500.000	500.000
25)	Chlordane-3	5.949	5.128	370.7E6	1285.8E6	500.000	500.000
26)	Chlordane-4	6.034	5.193	444.7E6	1071.5E6	500.000	500.000
27)	Chlordane-5	6.873	6.093	75468131	491.5E6	500.000	500.000

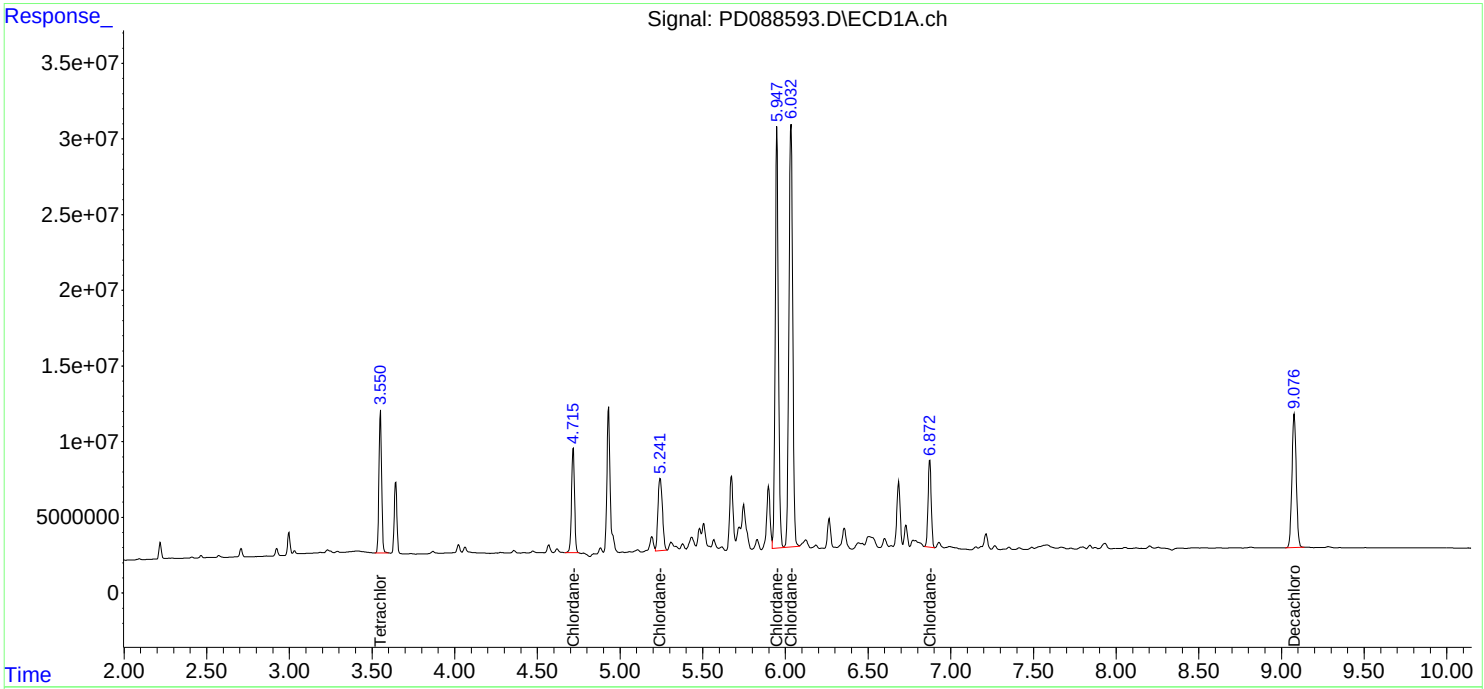
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

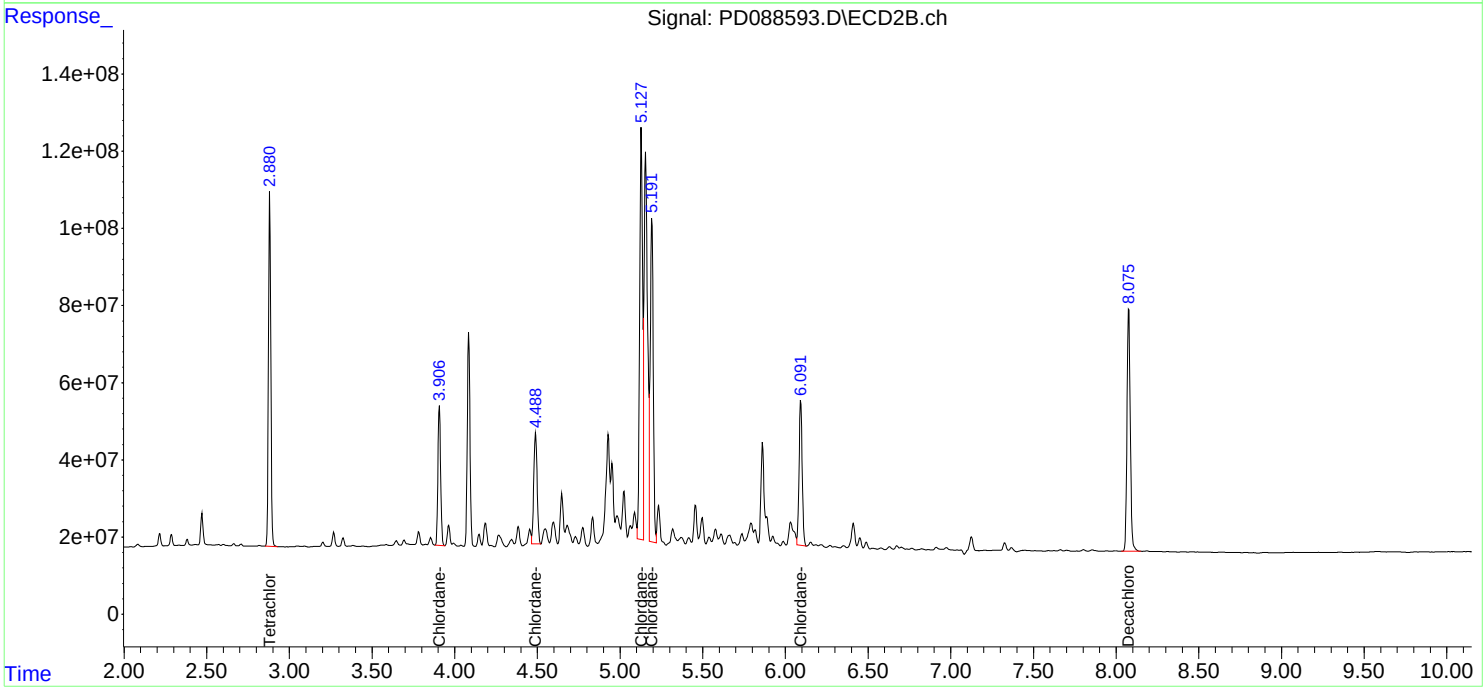
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088593.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 13:06
Operator : AR\AJ
Sample : PCHLORICC500
Misc :
ALS Vial : 12 Sample Multiplier: 1

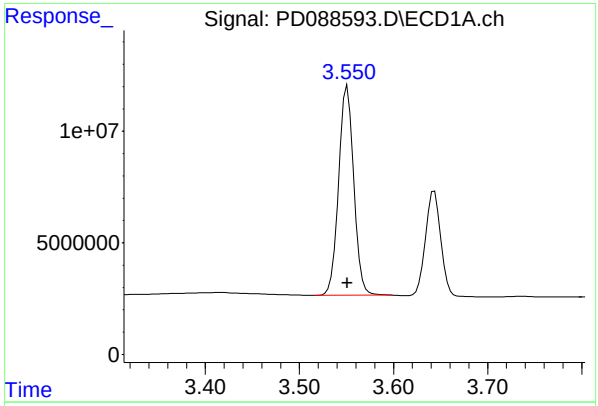
Instrument :
ECD_D
ClientSampleId :
PCHLORICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 13:27:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 13:26:49 2025
Response via : Initial Calibration
Integrator: ChemStation

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



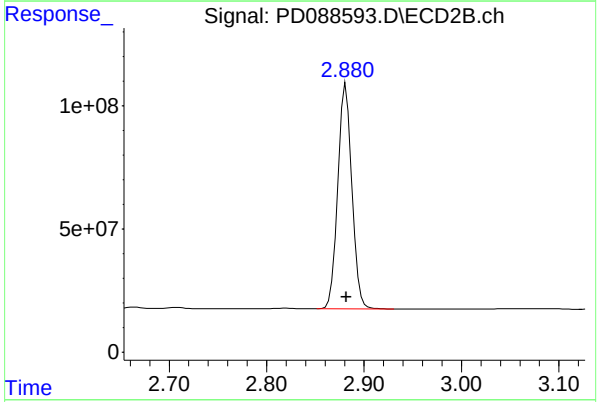




#1 Tetrachloro-m-xylene

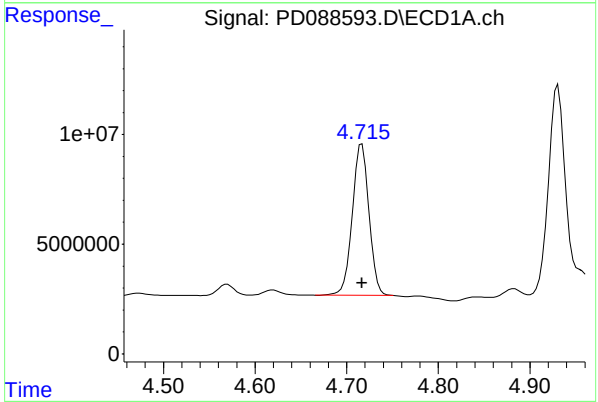
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 104786989
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PCHLORICC500



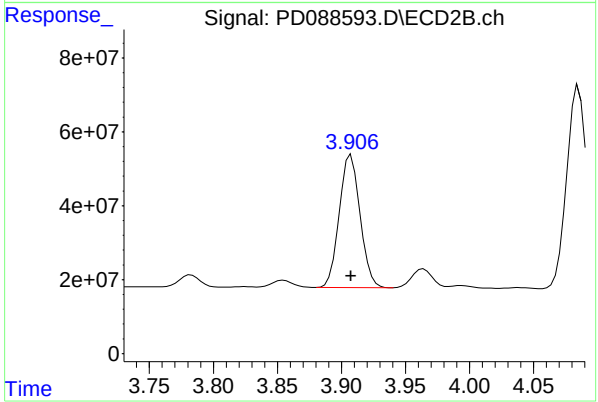
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 916782601
Conc: 50.00 ng/ml



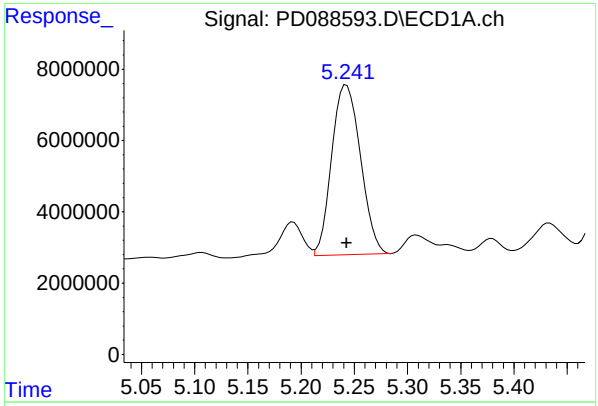
#23 Chlordane-1

R.T.: 4.717 min
Delta R.T.: 0.000 min
Response: 87638607
Conc: 500.00 ng/ml



#23 Chlordane-1

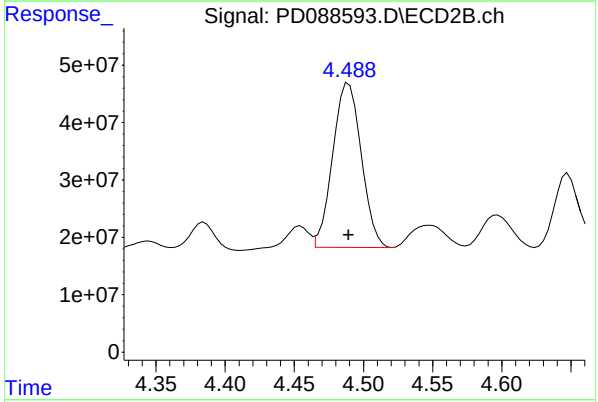
R.T.: 3.907 min
Delta R.T.: 0.000 min
Response: 406538111
Conc: 500.00 ng/ml



#24 Chlordane-2

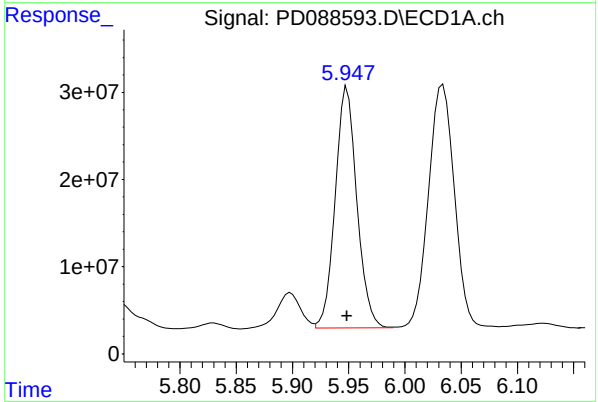
R.T.: 5.243 min
Delta R.T.: 0.000 min
Response: 89727196
Conc: 500.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PCHLORICC500



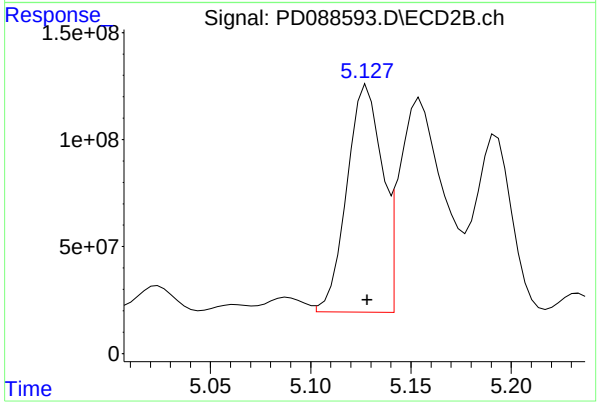
#24 Chlordane-2

R.T.: 4.489 min
Delta R.T.: 0.000 min
Response: 411346039
Conc: 500.00 ng/ml



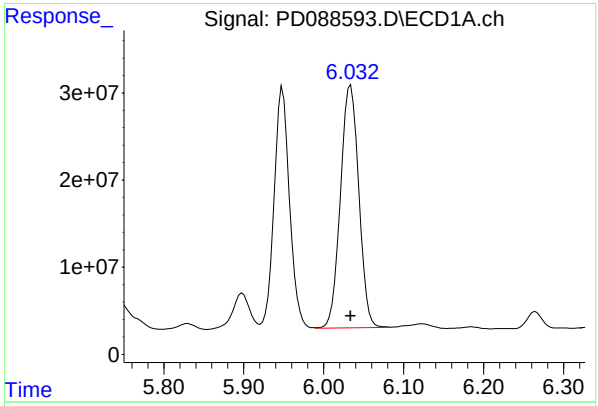
#25 Chlordane-3

R.T.: 5.949 min
Delta R.T.: 0.000 min
Response: 370685594
Conc: 500.00 ng/ml



#25 Chlordane-3

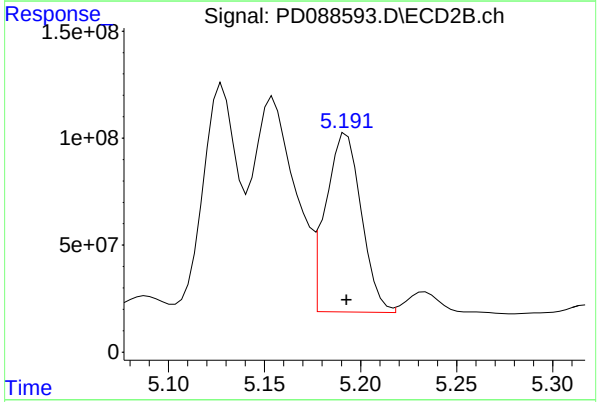
R.T.: 5.128 min
Delta R.T.: 0.000 min
Response: 1285761164
Conc: 500.00 ng/ml



#26 Chlordane-4

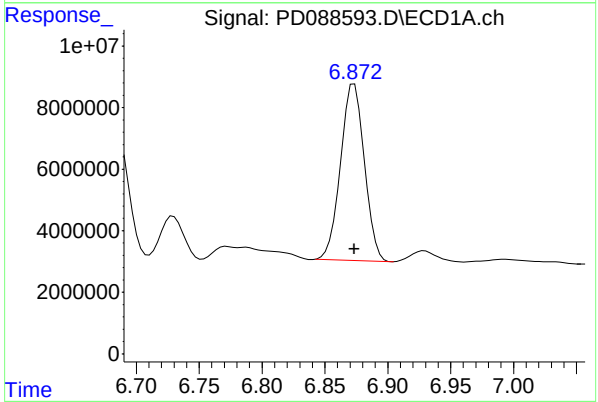
R.T.: 6.034 min
Delta R.T.: 0.000 min
Response: 444707328
Conc: 500.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PCHLORICC500



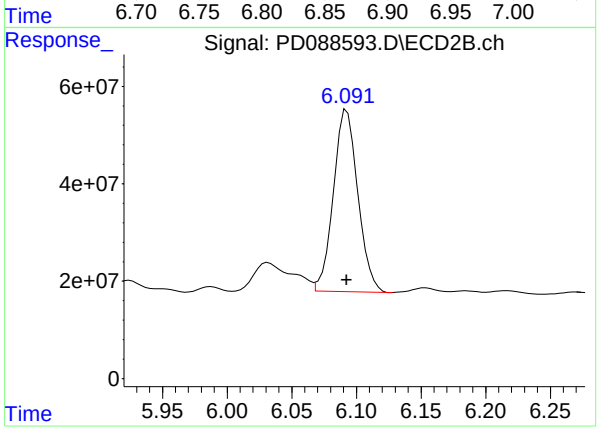
#26 Chlordane-4

R.T.: 5.193 min
Delta R.T.: 0.000 min
Response: 1071526013
Conc: 500.00 ng/ml



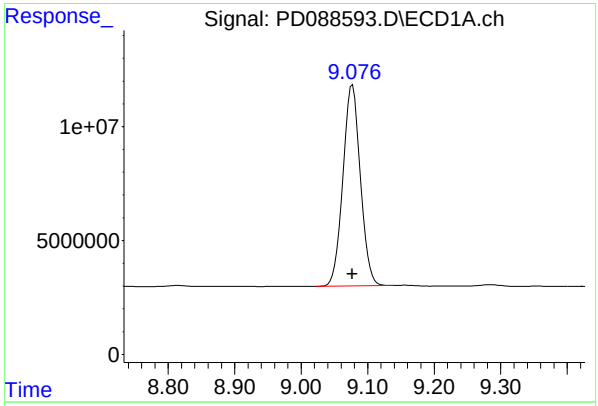
#27 Chlordane-5

R.T.: 6.873 min
Delta R.T.: 0.000 min
Response: 75468131
Conc: 500.00 ng/ml



#27 Chlordane-5

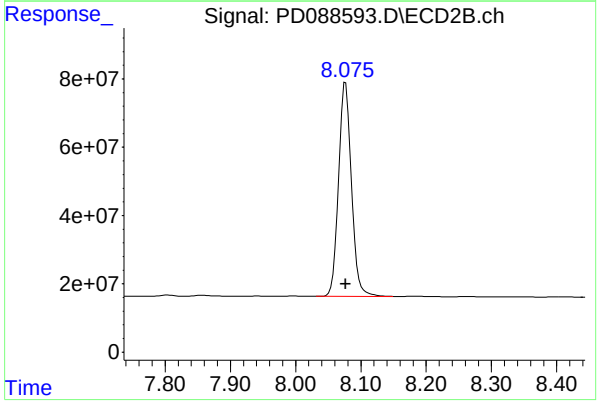
R.T.: 6.093 min
Delta R.T.: 0.000 min
Response: 491525933
Conc: 500.00 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.077 min
Delta R.T.: 0.000 min
Response: 161252646
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PCHLORICC500



#28 Decachlorobiphenyl

R.T.: 8.077 min
Delta R.T.: 0.000 min
Response: 859811965
Conc: 50.00 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088598.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 14:14
Operator : AR\AJ
Sample : PTOXICC500
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PTOXICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 14:24:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\DTX051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 14:24:19 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 x 0. 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...	3.551	2.882	108.0E6	751.0E6	50.000	50.000
7) SA	Decachlor...	9.078	8.076	167.6E6	890.4E6	50.000	50.000
	Target Compounds						
2)	Toxaphene-1	6.244	5.478	13194843	69615460	500.000	500.000
3)	Toxaphene-2	6.444	5.649	19059780	47039410	500.000	500.000
4)	Toxaphene-3	7.151	6.759	36144150	218.5E6	500.000	500.000
5)	Toxaphene-4	7.566	7.201	45706327	155.6E6	500.000	500.000
6)	Toxaphene-5	7.932	7.332	26129785	108.5E6	500.000	500.000

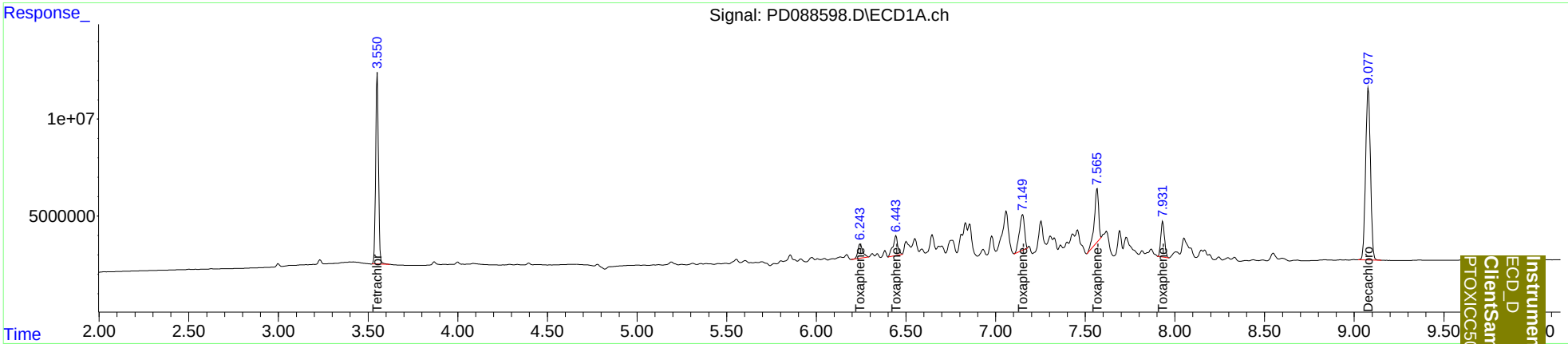
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

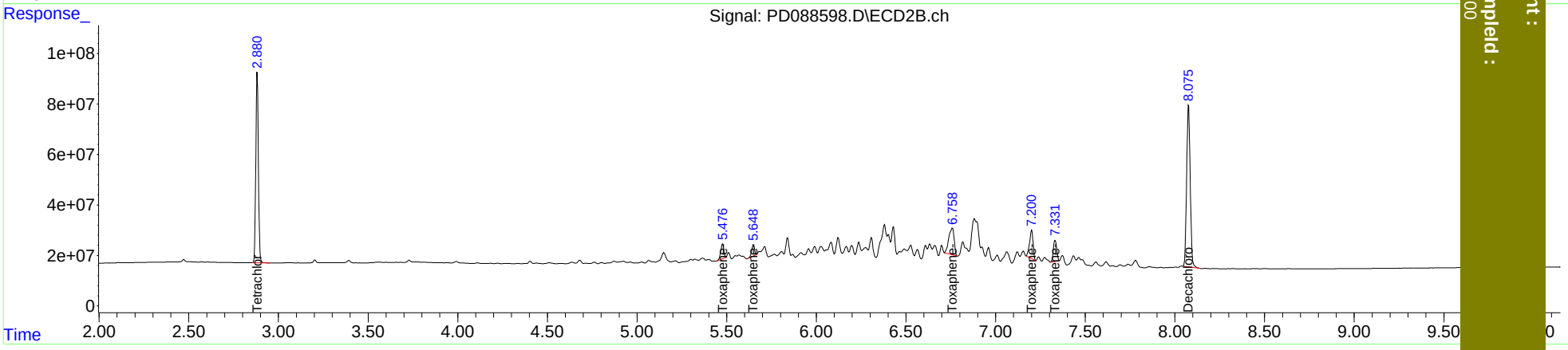
Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088598.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 14:14
Operator : AR\AJ
Sample : PTOXICC500
Misc :
ALS Vial : 17 Sample Multiplier: 1

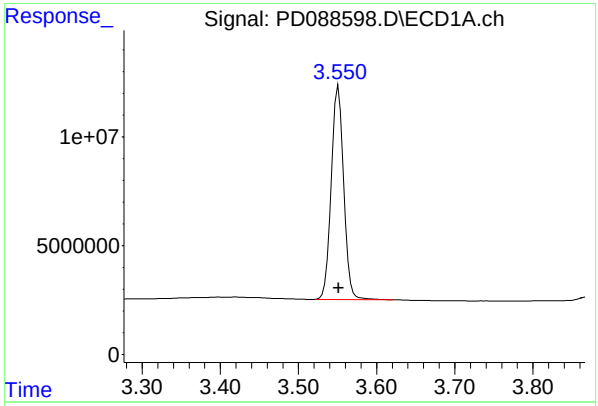
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 14:24:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\DTX051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 14:24:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0. Signal #2 Info : 30M x 0.32mm x0.25µm





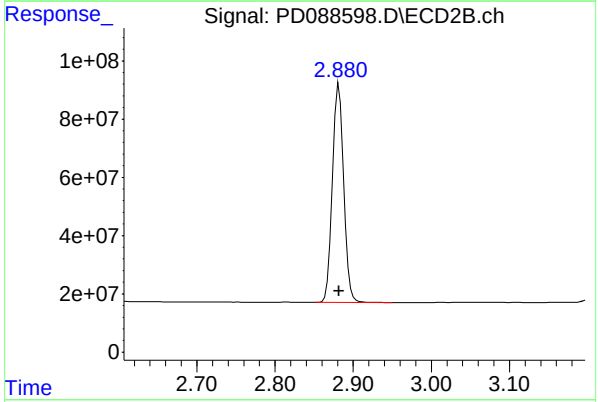
Instrument :
ECD_D
ClientSampleId :
PTOXICC500



#1 Tetrachloro-m-xylene

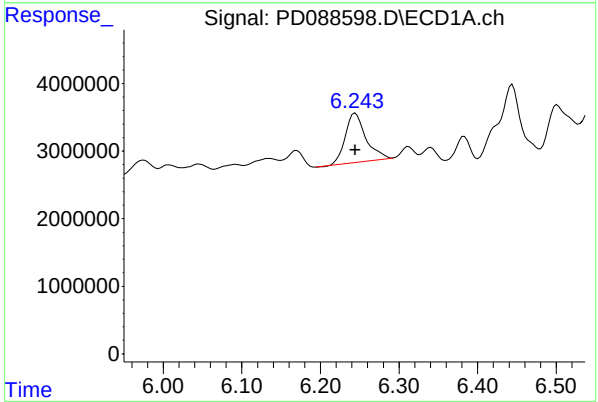
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 107983871
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PTOXICC500



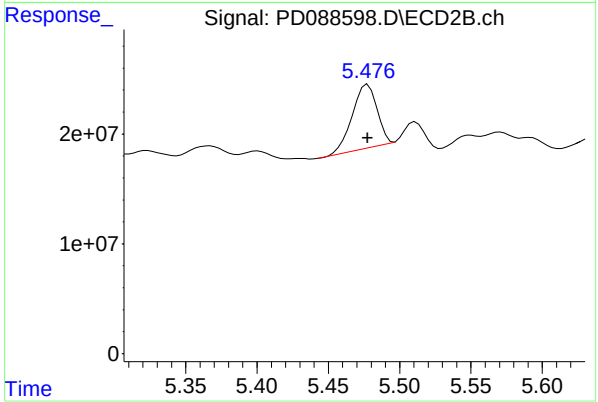
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 751004870
Conc: 50.00 ng/ml



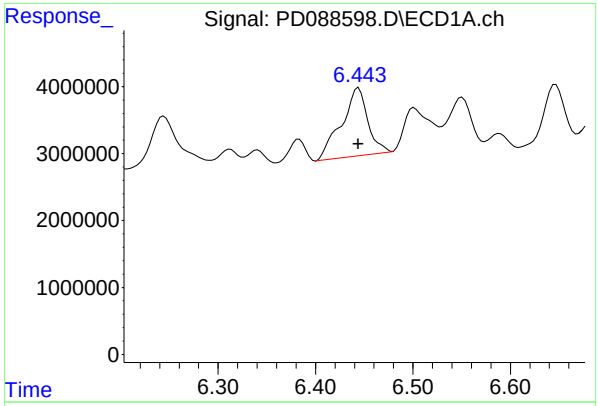
#2 Toxaphene-1

R.T.: 6.244 min
Delta R.T.: 0.000 min
Response: 13194843
Conc: 500.00 ng/ml



#2 Toxaphene-1

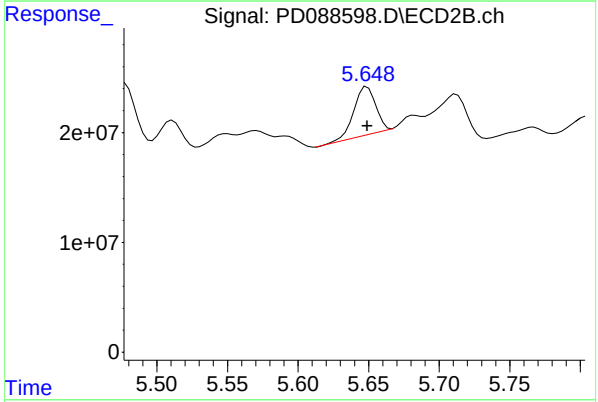
R.T.: 5.478 min
Delta R.T.: 0.000 min
Response: 69615460
Conc: 500.00 ng/ml



#3 Toxaphene-2

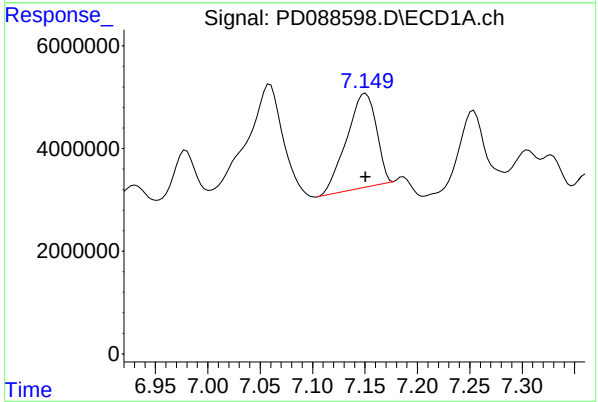
R.T.: 6.444 min
Delta R.T.: 0.000 min
Response: 19059780
Conc: 500.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PTOXICC500



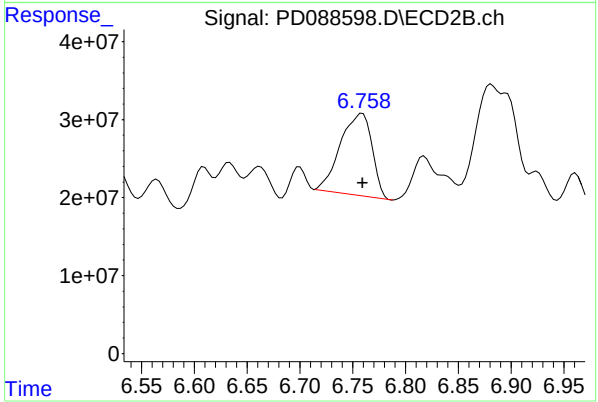
#3 Toxaphene-2

R.T.: 5.649 min
Delta R.T.: 0.000 min
Response: 47039410
Conc: 500.00 ng/ml



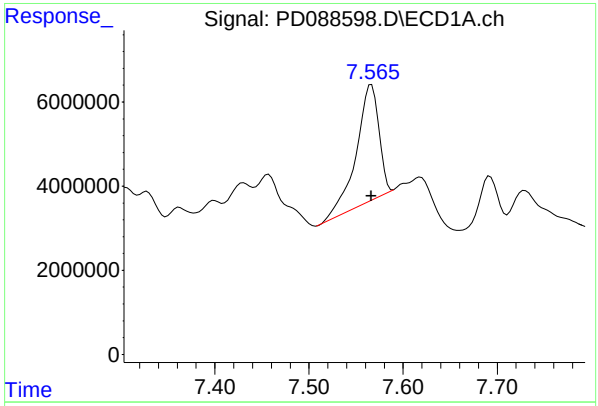
#4 Toxaphene-3

R.T.: 7.151 min
Delta R.T.: 0.000 min
Response: 36144150
Conc: 500.00 ng/ml



#4 Toxaphene-3

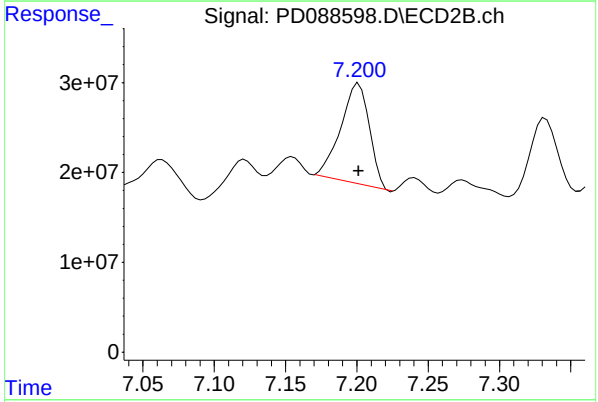
R.T.: 6.759 min
Delta R.T.: 0.000 min
Response: 218541432
Conc: 500.00 ng/ml



#5 Toxaphene-4

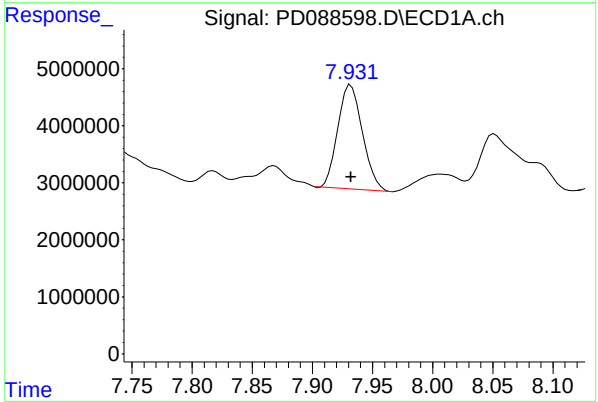
R.T.: 7.566 min
Delta R.T.: 0.000 min
Response: 45706327
Conc: 500.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PTOXICC500



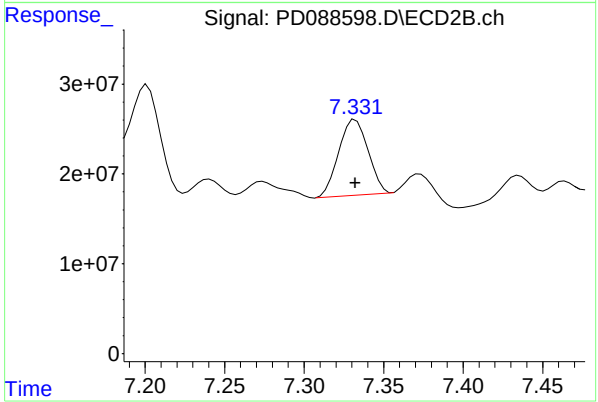
#5 Toxaphene-4

R.T.: 7.201 min
Delta R.T.: 0.000 min
Response: 155642376
Conc: 500.00 ng/ml



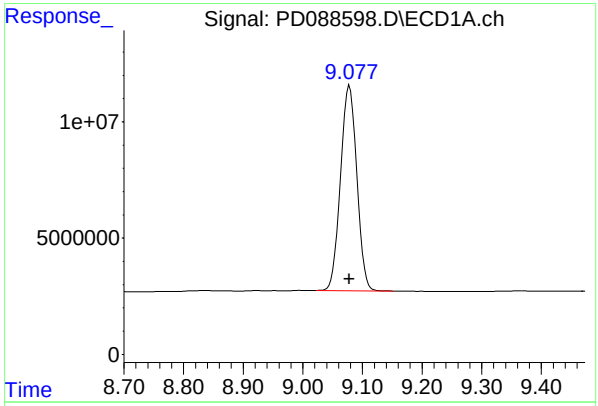
#6 Toxaphene-5

R.T.: 7.932 min
Delta R.T.: 0.000 min
Response: 26129785
Conc: 500.00 ng/ml



#6 Toxaphene-5

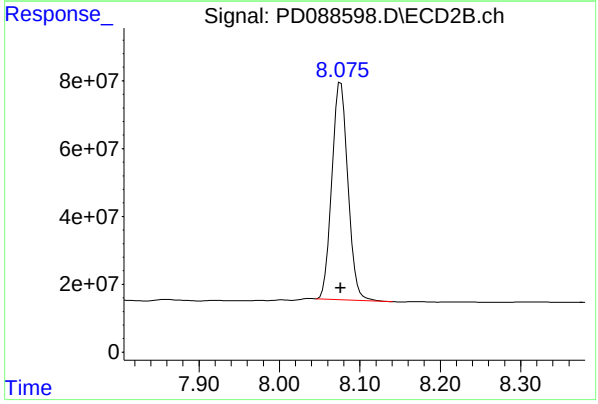
R.T.: 7.332 min
Delta R.T.: 0.000 min
Response: 108487622
Conc: 500.00 ng/ml



#7 Decachlorobiphenyl

R.T.: 9.078 min
Delta R.T.: 0.000 min
Response: 167560869
Conc: 50.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PTOXICC500



#7 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 890418254
Conc: 50.00 ng/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088601.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 14:55
Operator : AR\AJ
Sample : PSTDICV050
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : ECD_D
ClientSampleId : ICVPD051925

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 15:10:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 13:57:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.551	2.882	108.1E6	751.4E6	49.971	49.675
28)	SA Decachlor...	9.077	8.076	167.7E6	895.2E6	49.001	49.034
	Target Compounds						
2)	A alpha-BHC	4.001	3.395	246.5E6	1196.4E6	51.600	50.049
3)	MA gamma-BHC...	4.332	3.731	235.9E6	1105.4E6	51.246	49.870
4)	MA Heptachlor	4.932	4.085	227.5E6	1118.9E6	50.891	49.831
5)	MB Aldrin	5.274	4.371	223.7E6	1091.3E6	50.911	49.765
6)	B beta-BHC	4.517	4.027	89787263	480.1E6	49.795	49.280
7)	B delta-BHC	4.765	4.264	218.4E6	1109.3E6	51.674	49.758
8)	B Heptachlo...	5.693	4.875	199.8E6	982.3E6	50.327	49.432
9)	A Endosulfan I	6.077	5.249	189.4E6	938.9E6	50.341	49.474
10)	B gamma-Chl...	5.949	5.128	201.5E6	1057.1E6	50.505	49.556
11)	B alpha-Chl...	6.029	5.193	201.8E6	1018.0E6	50.365	49.357
12)	B 4,4'-DDE	6.198	5.378	182.3E6	1031.8E6	50.791	49.363
13)	MA Dieldrin	6.349	5.516	203.9E6	1041.8E6	50.818	49.507
14)	MA Endrin	6.578	5.792	172.9E6	954.5E6	50.628	49.499
15)	B Endosulfa...	6.789	6.083	171.5E6	909.5E6	49.803	49.640
16)	A 4,4'-DDD	6.708	5.932	141.8E6	864.0E6	50.908	49.679
17)	MA 4,4'-DDT	7.024	6.186	159.0E6	923.1E6	50.943	50.894
18)	B Endrin al...	6.917	6.261	127.7E6	685.3E6	49.581	49.203
19)	B Endosulfa...	7.152	6.485	160.4E6	879.9E6	50.092	49.555
20)	A Methoxychlor	7.496	6.758	83431358	481.4E6	49.942	50.273
21)	B Endrin ke...	7.633	6.994	172.4E6	962.9E6	50.373	49.767
22)	Mirex	8.117	7.189	127.7E6	748.0E6	49.145	49.203

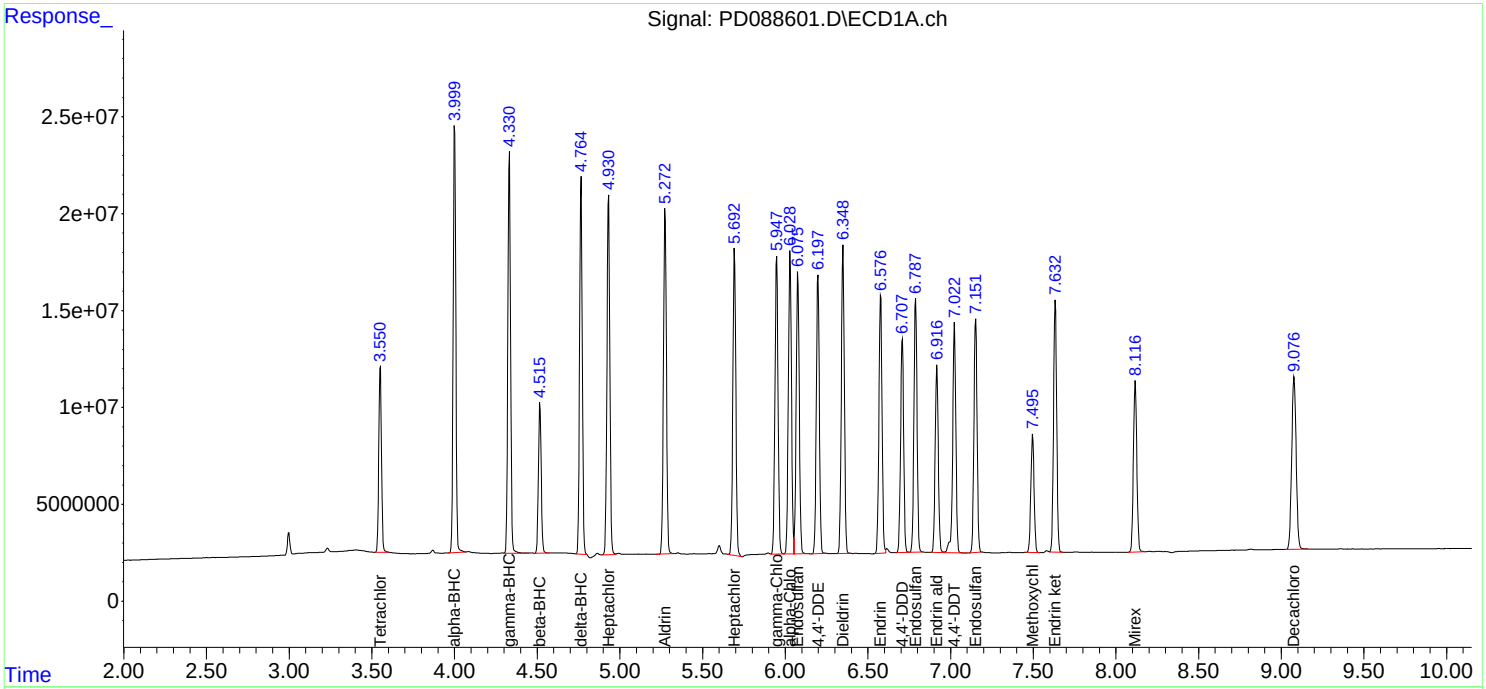
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

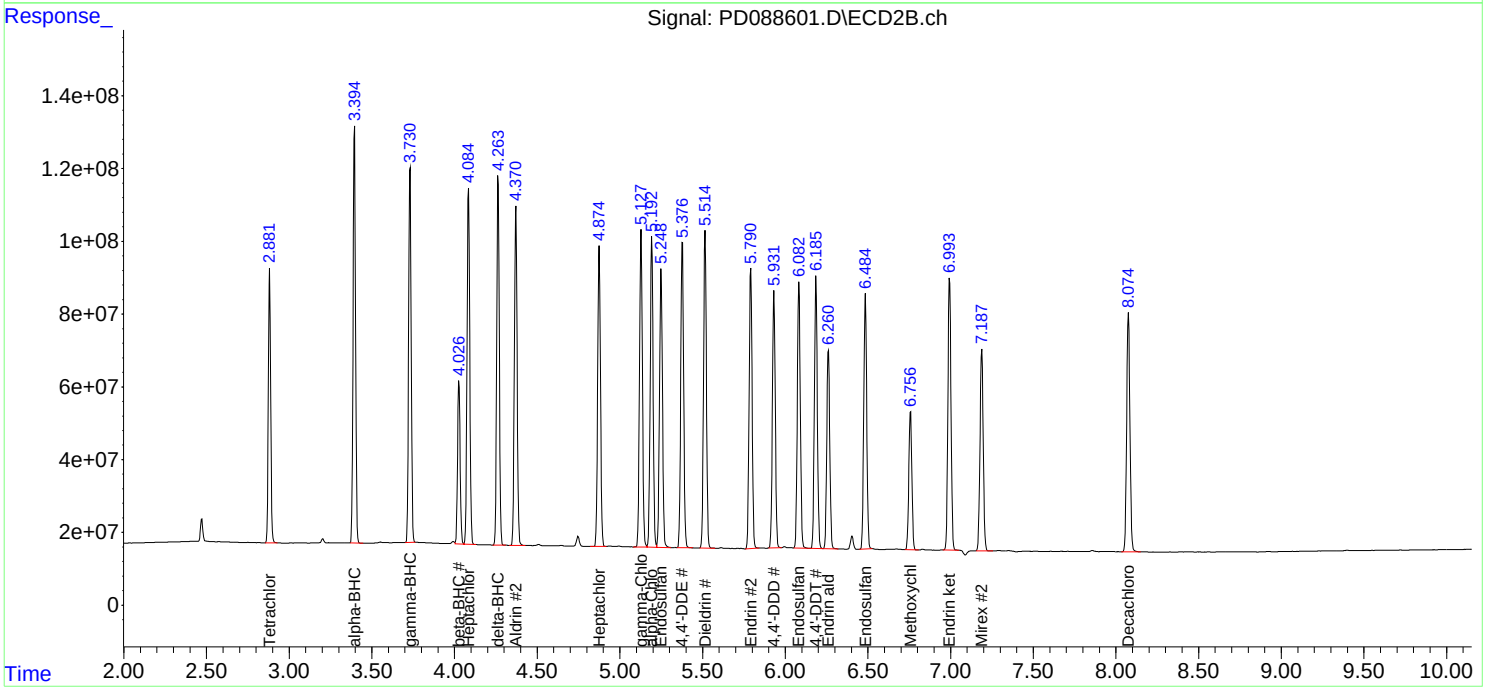
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088601.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 14:55
Operator : AR\AJ
Sample : PSTDICV050
Misc :
ALS Vial : 20 Sample Multiplier: 1

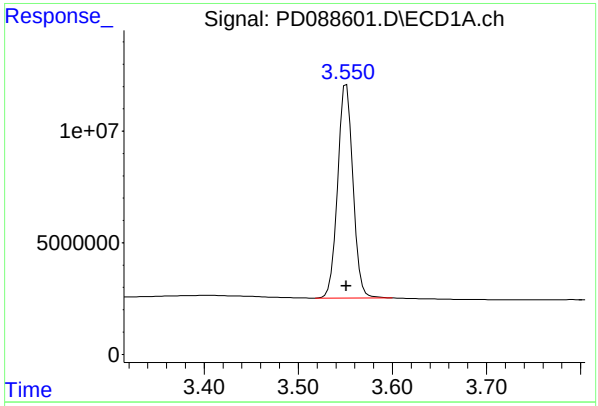
Instrument :
ECD_D
ClientSampleId :
ICVPD051925

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 15:10:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 13:57:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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



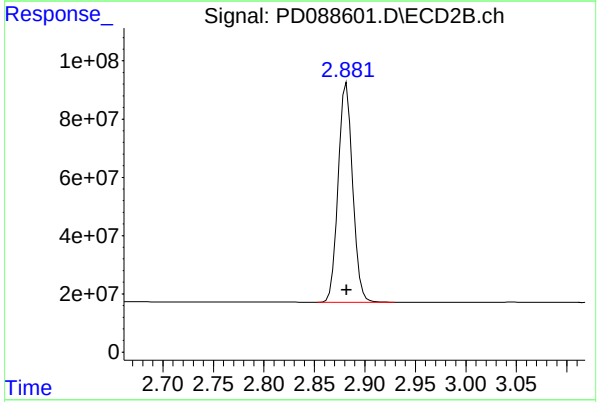




#1 Tetrachloro-m-xylene

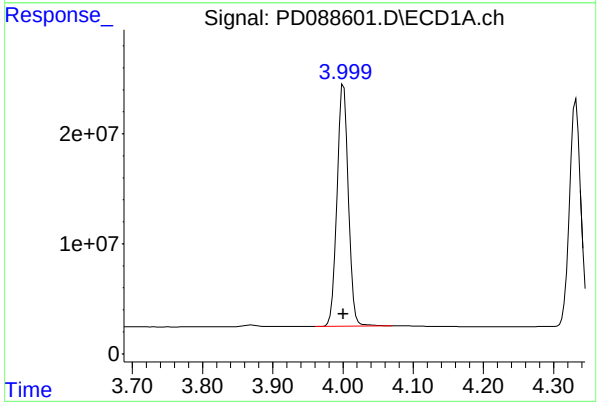
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 108124497
Conc: 49.97 ng/ml

Instrument :
ECD_D
ClientSampleId :
ICVPD051925



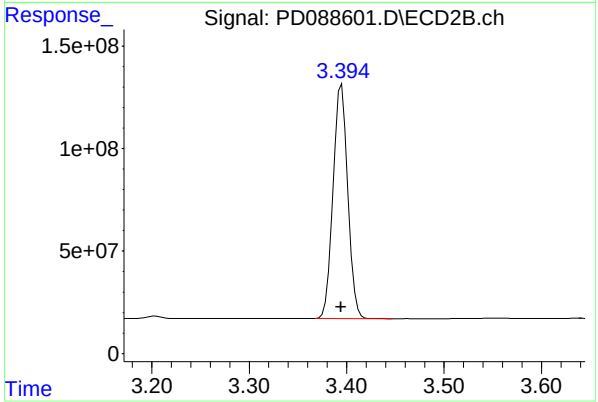
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 751431466
Conc: 49.68 ng/ml



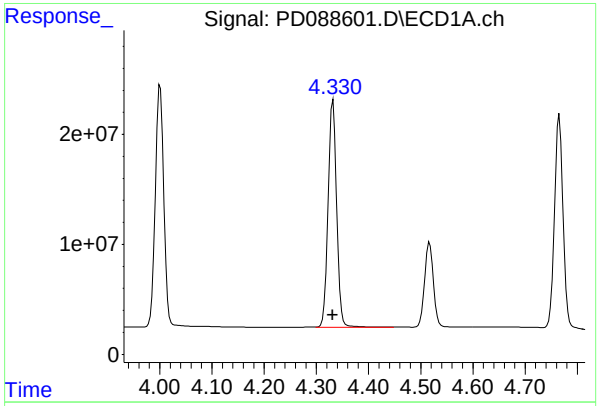
#2 alpha-BHC

R.T.: 4.001 min
Delta R.T.: 0.000 min
Response: 246469223
Conc: 51.60 ng/ml



#2 alpha-BHC

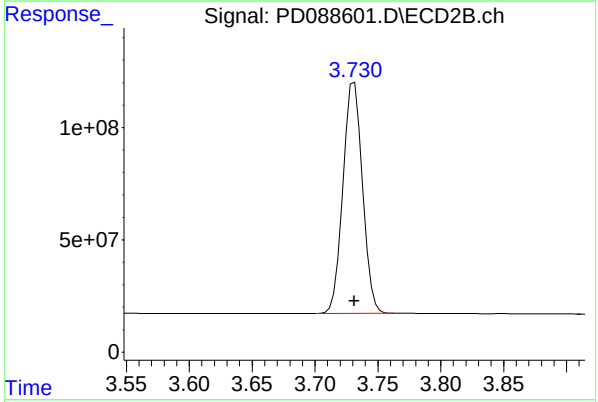
R.T.: 3.395 min
Delta R.T.: 0.000 min
Response: 1196353415
Conc: 50.05 ng/ml



#3 gamma-BHC (Lindane)

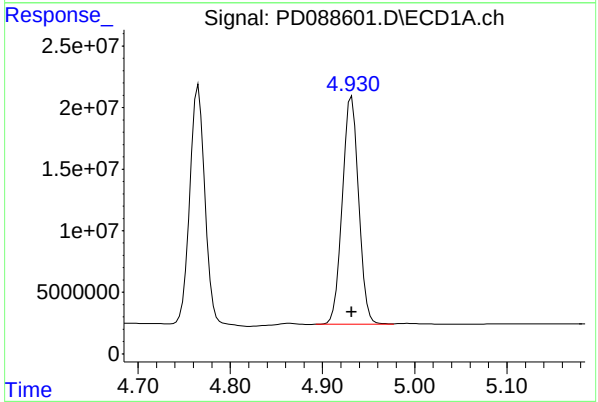
R.T.: 4.332 min
Delta R.T.: 0.000 min
Response: 235869890
Conc: 51.25 ng/ml

Instrument :
ECD_D
ClientSampleId :
ICVPD051925



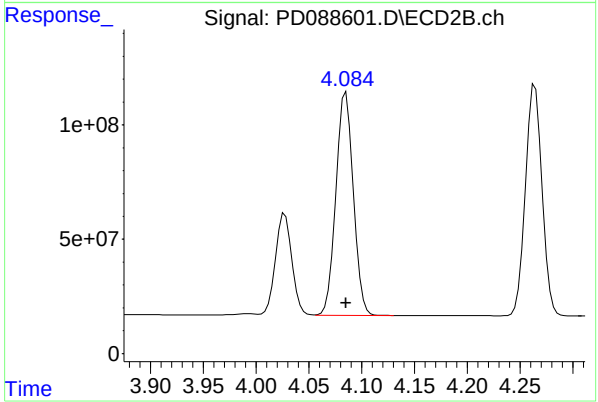
#3 gamma-BHC (Lindane)

R.T.: 3.731 min
Delta R.T.: 0.000 min
Response: 1105406443
Conc: 49.87 ng/ml



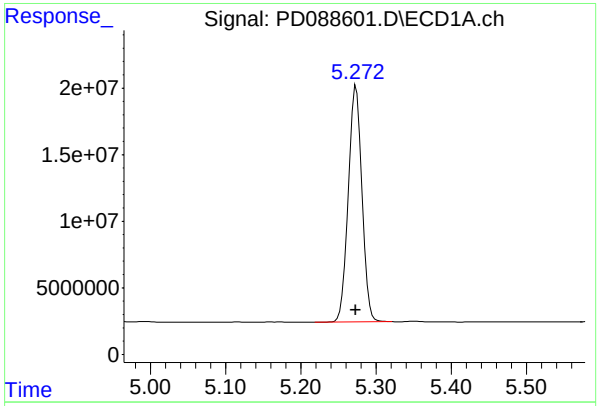
#4 Heptachlor

R.T.: 4.932 min
Delta R.T.: 0.000 min
Response: 227542922
Conc: 50.89 ng/ml



#4 Heptachlor

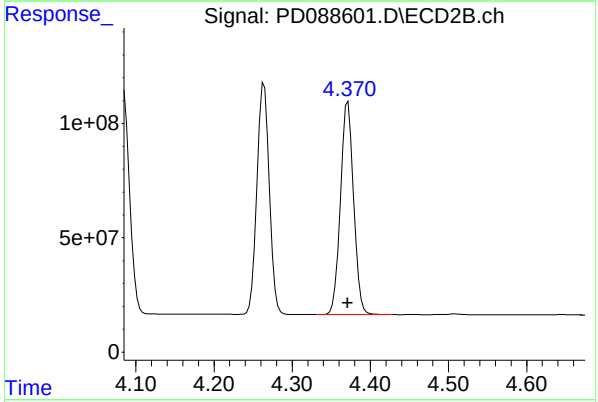
R.T.: 4.085 min
Delta R.T.: 0.000 min
Response: 1118938577
Conc: 49.83 ng/ml



#5 Aldrin

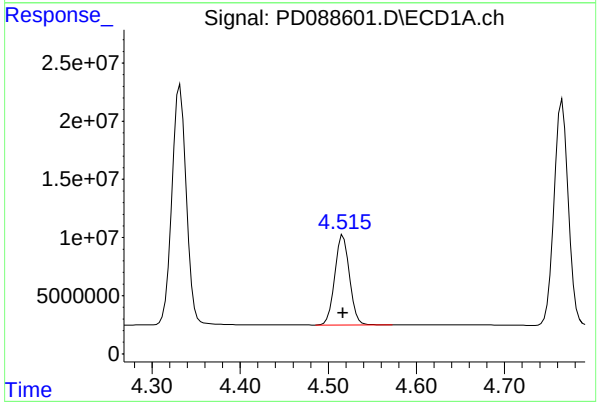
R.T.: 5.274 min
Delta R.T.: 0.000 min
Response: 223728468
Conc: 50.91 ng/ml

Instrument :
ECD_D
ClientSampleId :
ICVPD051925



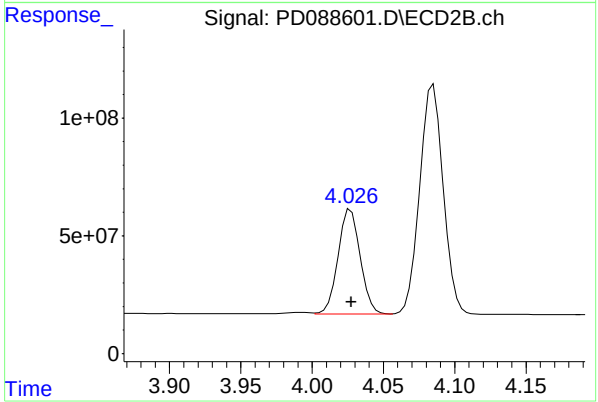
#5 Aldrin

R.T.: 4.371 min
Delta R.T.: 0.000 min
Response: 1091337797
Conc: 49.76 ng/ml



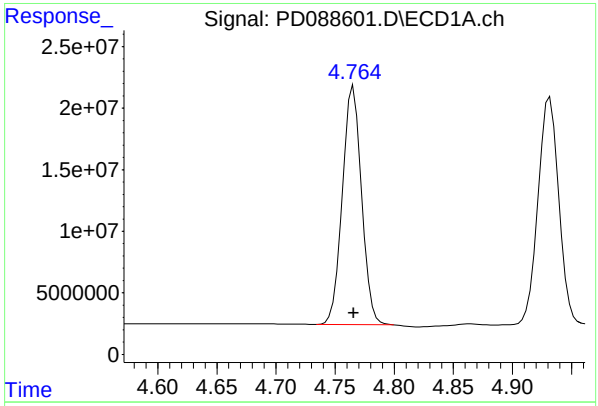
#6 beta-BHC

R.T.: 4.517 min
Delta R.T.: 0.000 min
Response: 89787263
Conc: 49.79 ng/ml



#6 beta-BHC

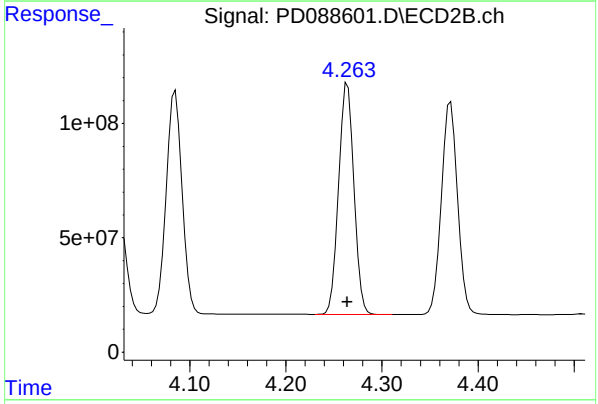
R.T.: 4.027 min
Delta R.T.: 0.000 min
Response: 480081224
Conc: 49.28 ng/ml



#7 delta-BHC

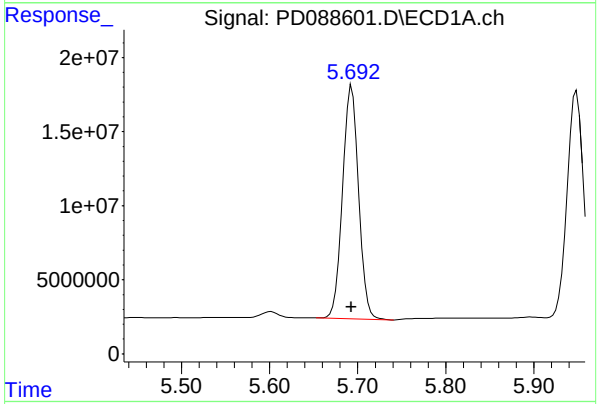
R.T.: 4.765 min
Delta R.T.: 0.000 min
Response: 218379915
Conc: 51.67 ng/ml

Instrument :
ECD_D
ClientSampleId :
ICVPD051925



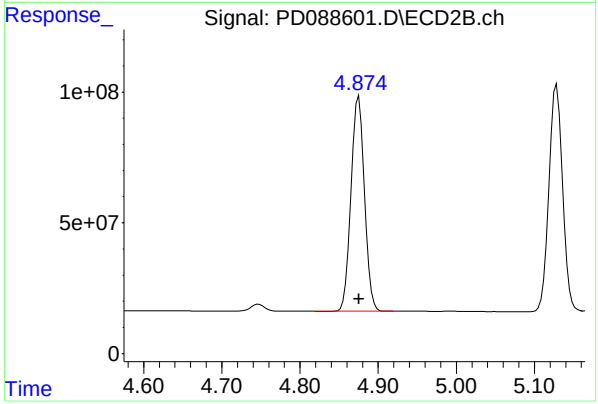
#7 delta-BHC

R.T.: 4.264 min
Delta R.T.: 0.000 min
Response: 1109299778
Conc: 49.76 ng/ml



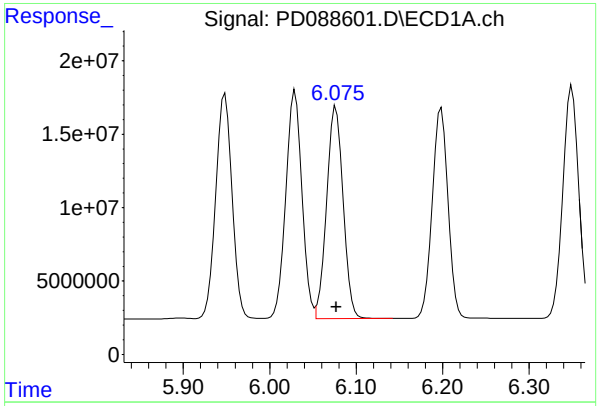
#8 Heptachlor epoxide

R.T.: 5.693 min
Delta R.T.: 0.000 min
Response: 199760715
Conc: 50.33 ng/ml



#8 Heptachlor epoxide

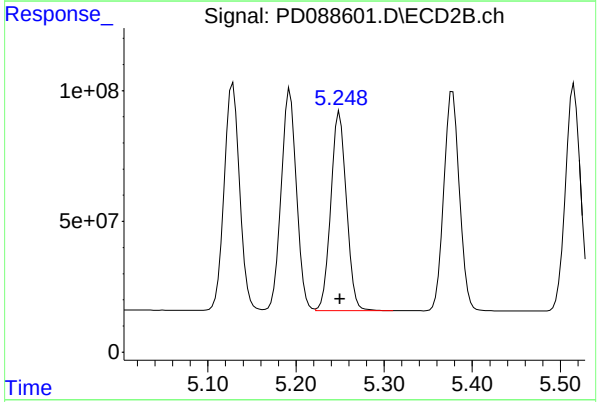
R.T.: 4.875 min
Delta R.T.: 0.000 min
Response: 982287395
Conc: 49.43 ng/ml



#9 Endosulfan I

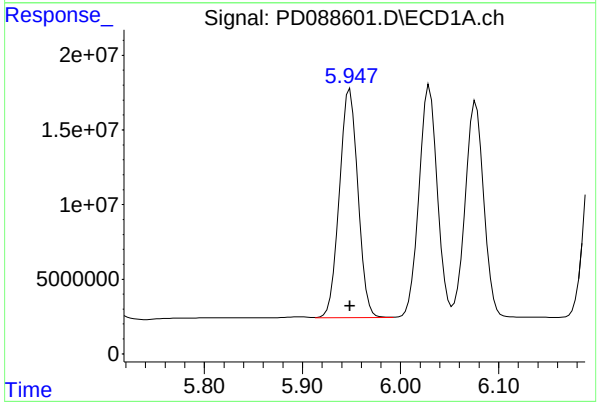
R.T.: 6.077 min
Delta R.T.: 0.000 min
Response: 189429671
Conc: 50.34 ng/ml

Instrument :
ECD_D
ClientSampleId :
ICVPD051925



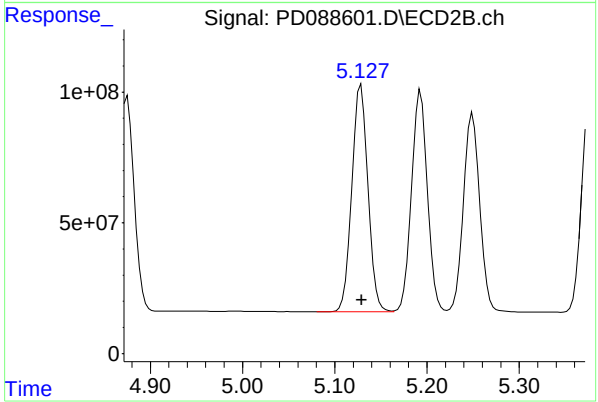
#9 Endosulfan I

R.T.: 5.249 min
Delta R.T.: 0.000 min
Response: 938933144
Conc: 49.47 ng/ml



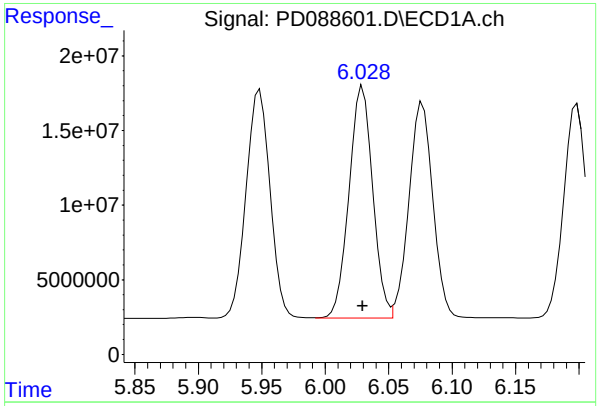
#10 gamma-Chlordane

R.T.: 5.949 min
Delta R.T.: 0.000 min
Response: 201463084
Conc: 50.51 ng/ml



#10 gamma-Chlordane

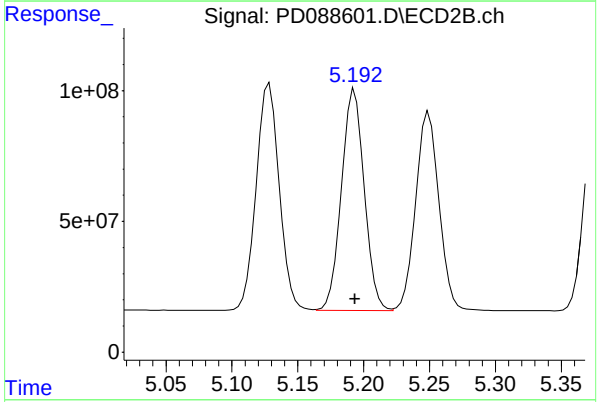
R.T.: 5.128 min
Delta R.T.: 0.000 min
Response: 1057133186
Conc: 49.56 ng/ml



#11 alpha-Chlordane

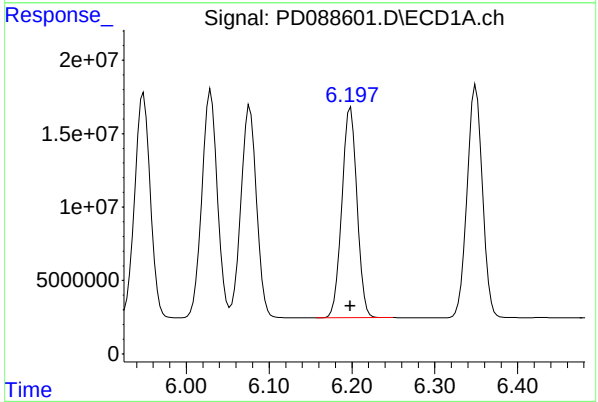
R.T.: 6.029 min
Delta R.T.: 0.000 min
Response: 201777581
Conc: 50.37 ng/ml

Instrument :
ECD_D
ClientSampleId :
ICVPD051925



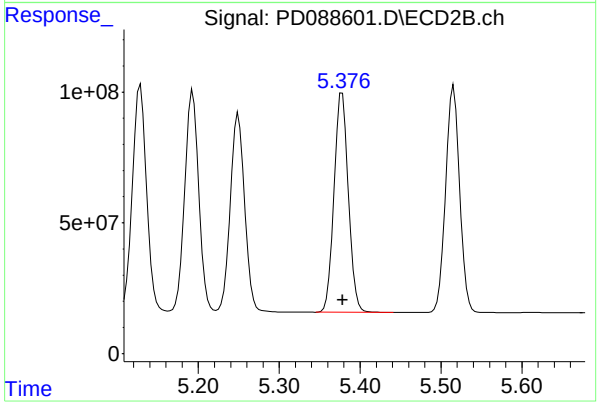
#11 alpha-Chlordane

R.T.: 5.193 min
Delta R.T.: 0.000 min
Response: 1017988715
Conc: 49.36 ng/ml



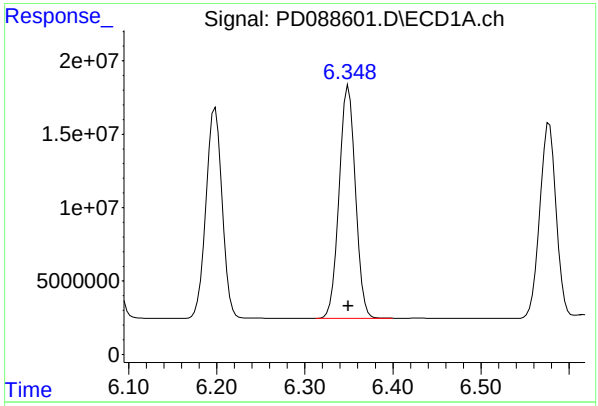
#12 4,4'-DDE

R.T.: 6.198 min
Delta R.T.: 0.000 min
Response: 182307722
Conc: 50.79 ng/ml



#12 4,4'-DDE

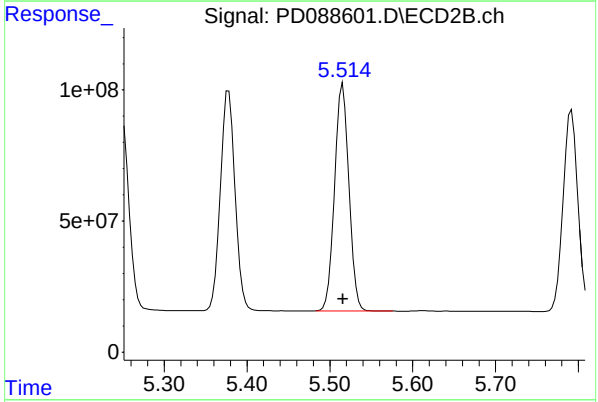
R.T.: 5.378 min
Delta R.T.: 0.000 min
Response: 1031825037
Conc: 49.36 ng/ml



#13 Dieldrin

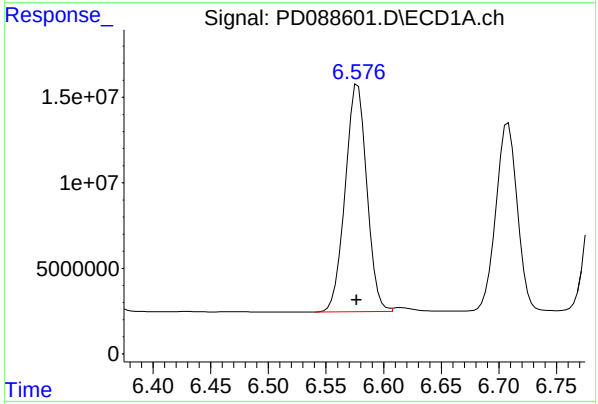
R.T.: 6.349 min
Delta R.T.: 0.000 min
Response: 203867868
Conc: 50.82 ng/ml

Instrument :
ECD_D
ClientSampleId :
ICVPD051925



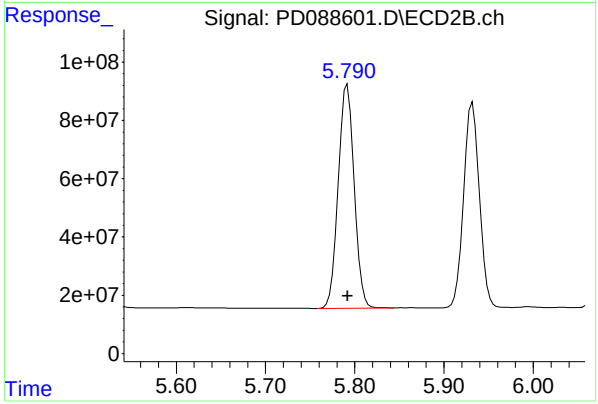
#13 Dieldrin

R.T.: 5.516 min
Delta R.T.: 0.000 min
Response: 1041825576
Conc: 49.51 ng/ml



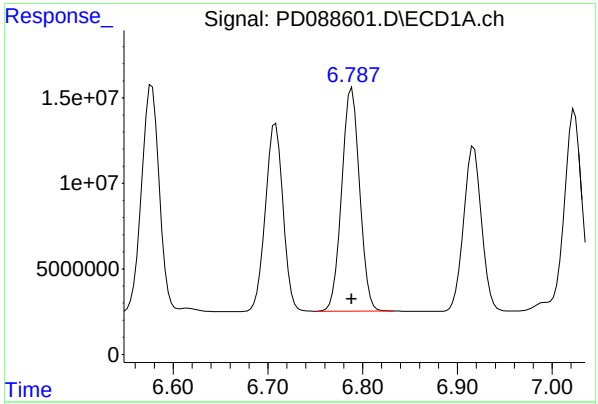
#14 Endrin

R.T.: 6.578 min
Delta R.T.: 0.000 min
Response: 172904070
Conc: 50.63 ng/ml



#14 Endrin

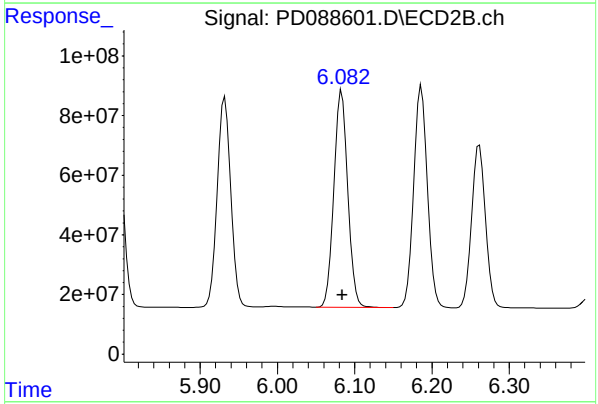
R.T.: 5.792 min
Delta R.T.: 0.000 min
Response: 954544012
Conc: 49.50 ng/ml



#15 Endosulfan II

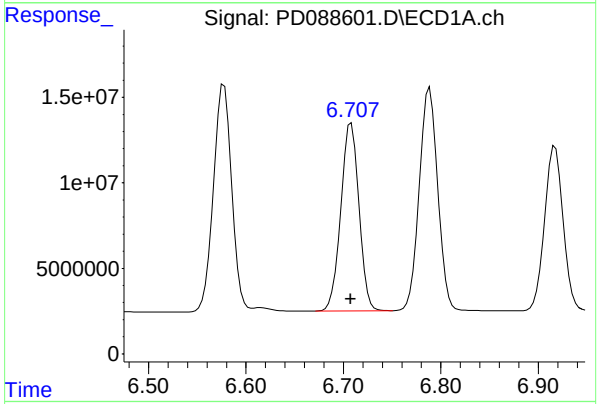
R.T.: 6.789 min
Delta R.T.: 0.000 min
Response: 171499506
Conc: 49.80 ng/ml

Instrument :
ECD_D
ClientSampleId :
ICVPD051925



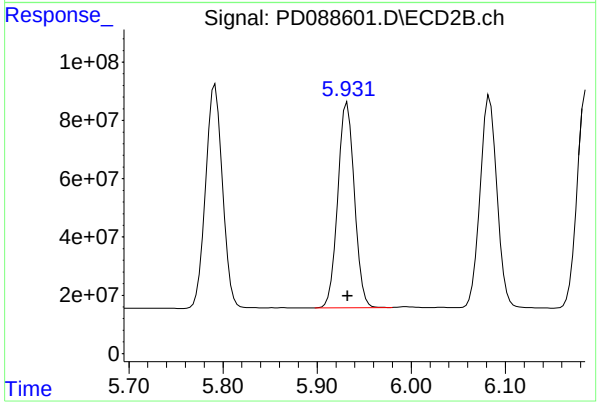
#15 Endosulfan II

R.T.: 6.083 min
Delta R.T.: 0.000 min
Response: 909494685
Conc: 49.64 ng/ml



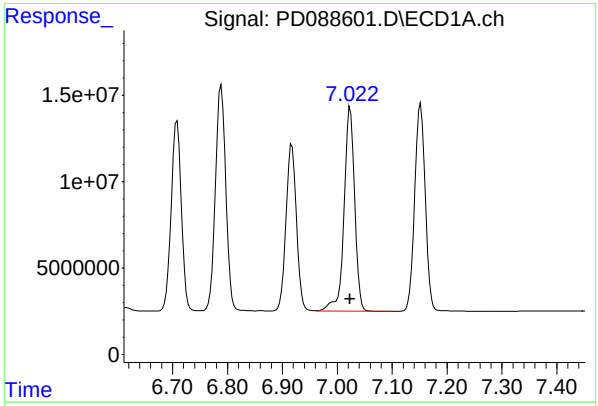
#16 4,4'-DDD

R.T.: 6.708 min
Delta R.T.: 0.000 min
Response: 141783990
Conc: 50.91 ng/ml



#16 4,4'-DDD

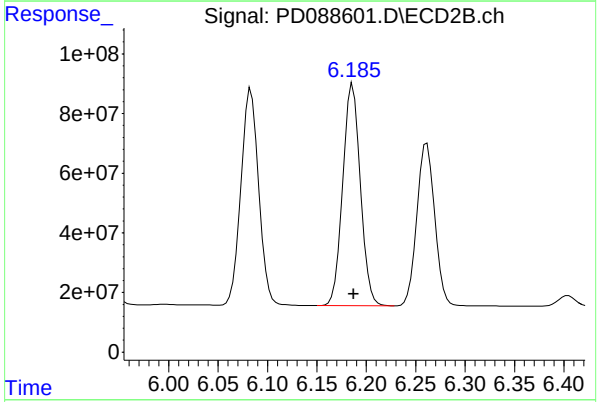
R.T.: 5.932 min
Delta R.T.: 0.000 min
Response: 864026920
Conc: 49.68 ng/ml



#17 4,4'-DDT

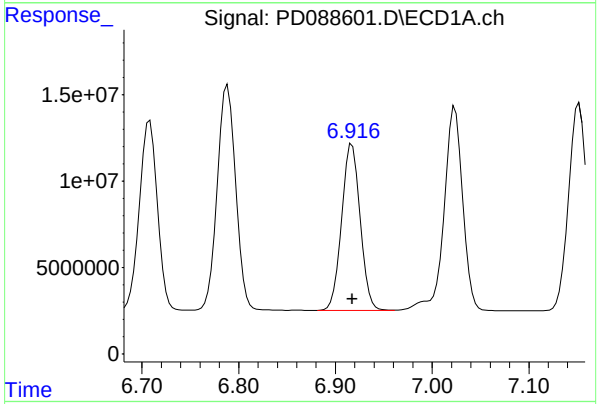
R.T.: 7.024 min
Delta R.T.: 0.000 min
Response: 159046703
Conc: 50.94 ng/ml

Instrument :
ECD_D
ClientSampleId :
ICVPD051925



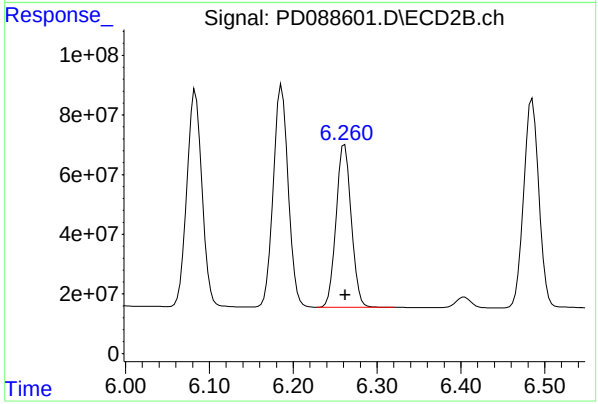
#17 4,4'-DDT

R.T.: 6.186 min
Delta R.T.: 0.000 min
Response: 923082655
Conc: 50.89 ng/ml



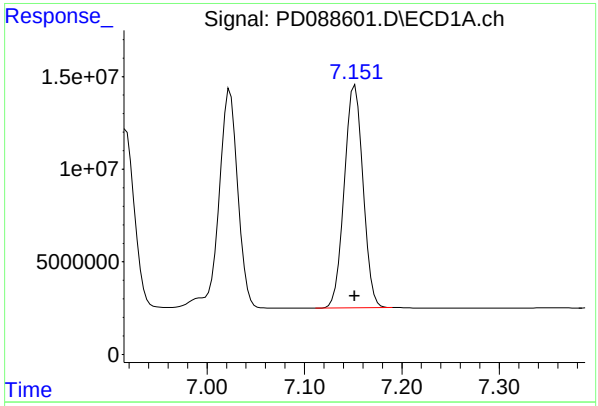
#18 Endrin aldehyde

R.T.: 6.917 min
Delta R.T.: 0.000 min
Response: 127650933
Conc: 49.58 ng/ml



#18 Endrin aldehyde

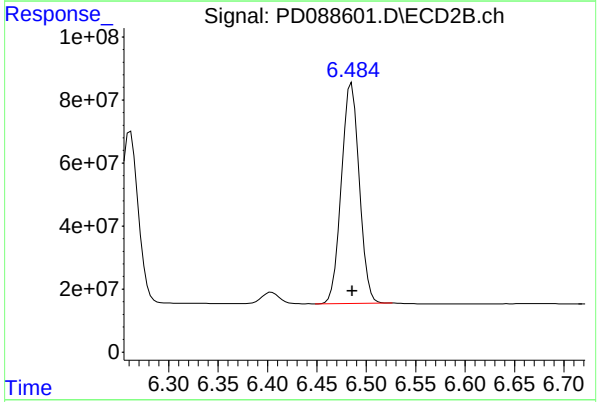
R.T.: 6.261 min
Delta R.T.: 0.000 min
Response: 685333312
Conc: 49.20 ng/ml



#19 Endosulfan Sulfate

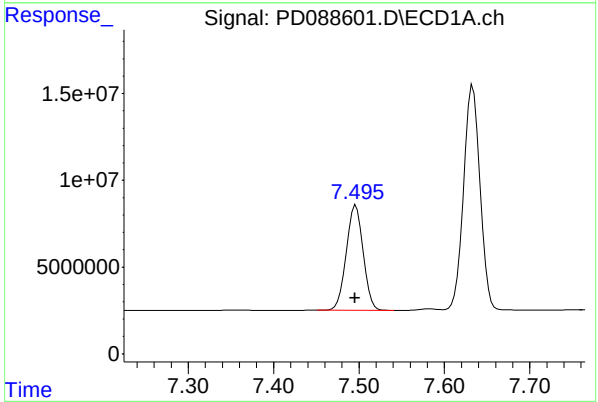
R.T.: 7.152 min
Delta R.T.: 0.000 min
Response: 160447169
Conc: 50.09 ng/ml

Instrument :
ECD_D
ClientSampleId :
ICVPD051925



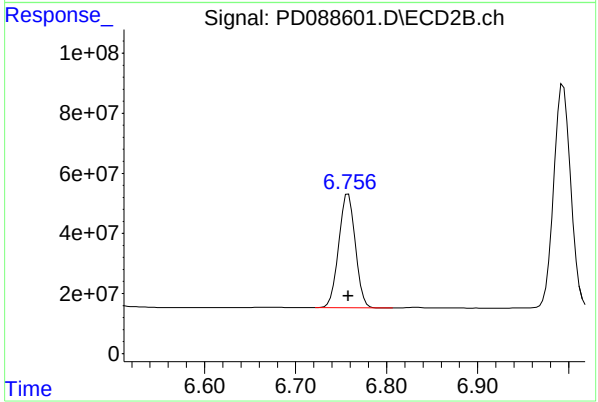
#19 Endosulfan Sulfate

R.T.: 6.485 min
Delta R.T.: 0.000 min
Response: 879894047
Conc: 49.56 ng/ml



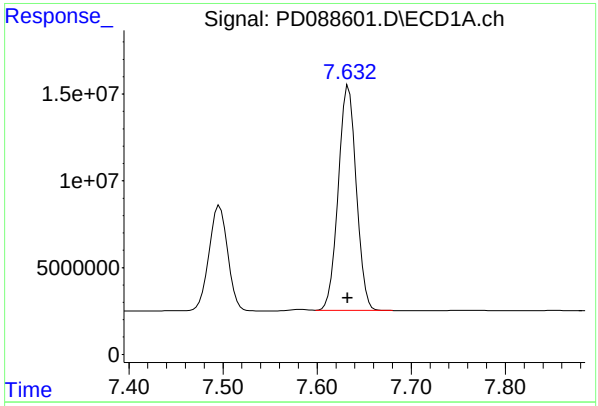
#20 Methoxychlor

R.T.: 7.496 min
Delta R.T.: 0.001 min
Response: 83431358
Conc: 49.94 ng/ml



#20 Methoxychlor

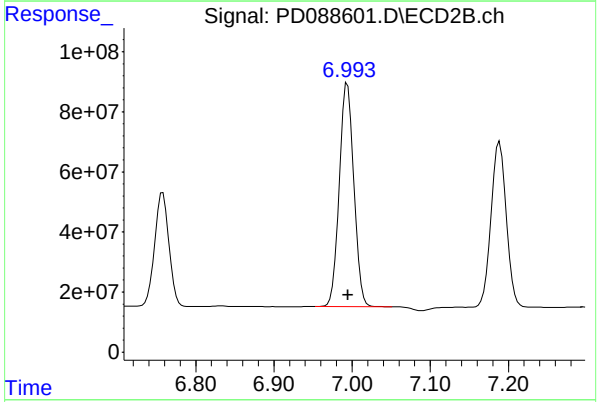
R.T.: 6.758 min
Delta R.T.: 0.000 min
Response: 481356486
Conc: 50.27 ng/ml



#21 Endrin ketone

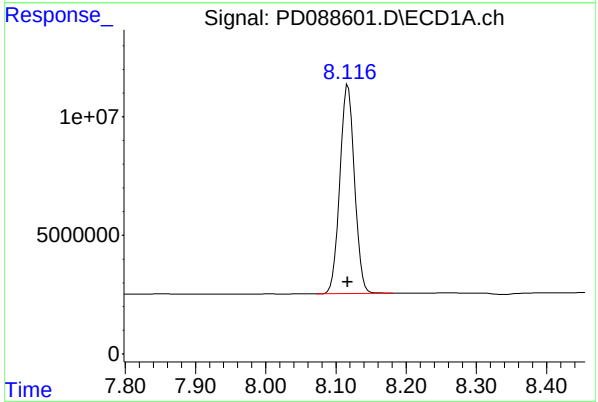
R.T.: 7.633 min
Delta R.T.: 0.000 min
Response: 172435454
Conc: 50.37 ng/ml

Instrument :
ECD_D
ClientSampleId :
ICVPD051925



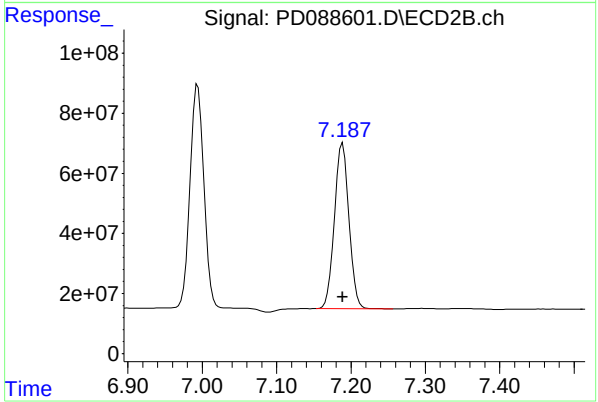
#21 Endrin ketone

R.T.: 6.994 min
Delta R.T.: 0.000 min
Response: 962867088
Conc: 49.77 ng/ml



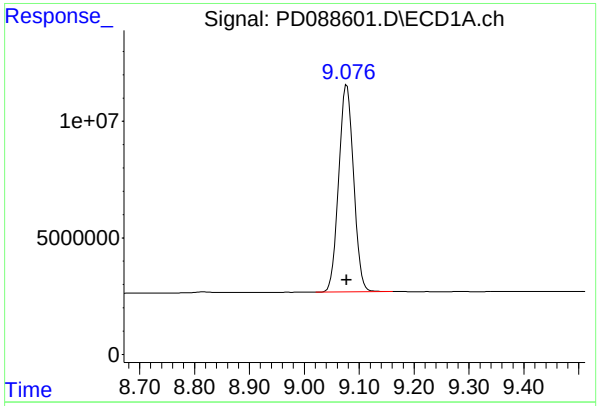
#22 Mirex

R.T.: 8.117 min
Delta R.T.: 0.000 min
Response: 127693341
Conc: 49.15 ng/ml



#22 Mirex

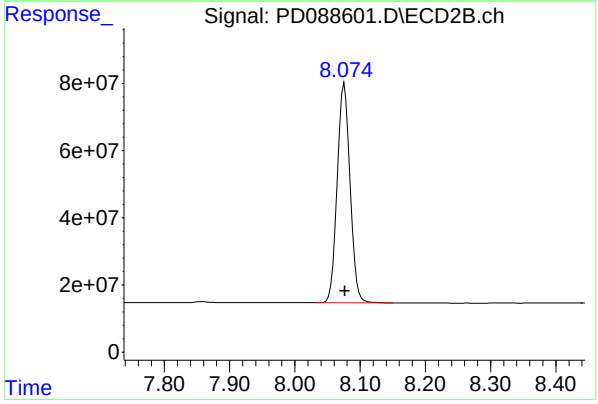
R.T.: 7.189 min
Delta R.T.: 0.000 min
Response: 747995743
Conc: 49.20 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.077 min
Delta R.T.: 0.000 min
Response: 167696493
Conc: 49.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
ICVPD051925



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 895178527
Conc: 49.03 ng/ml

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

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Continuing Calib Date: 05/13/2025 **Initial Calibration Date(s):** 04/18/2025 04/18/2025

Continuing Calib Time: 16:48 **Initial Calibration Time(s):** 13:56 14:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.07	9.08	8.98	9.18	0.01
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
alpha-BHC	4.00	4.00	3.90	4.10	0.00
beta-BHC	4.52	4.52	4.42	4.62	0.00
delta-BHC	4.77	4.77	4.67	4.87	0.01
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.93	4.93	4.83	5.03	0.00
Aldrin	5.27	5.27	5.17	5.37	0.00
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.00
Endosulfan I	6.08	6.08	5.98	6.18	0.00
Dieldrin	6.35	6.35	6.25	6.45	0.00
4,4'-DDE	6.20	6.20	6.10	6.30	0.00
Endrin	6.58	6.58	6.48	6.68	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	7.15	7.15	7.05	7.25	0.00
4,4'-DDT	7.02	7.02	6.92	7.12	0.00
Methoxychlor	7.49	7.50	7.40	7.60	0.01
Endrin ketone	7.63	7.63	7.53	7.73	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.00
alpha-Chlordane	6.03	6.03	5.93	6.13	0.00
gamma-Chlordane	5.95	5.95	5.85	6.05	0.00

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

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Continuing Calib Date: 05/13/2025 **Initial Calibration Date(s):** 04/18/2025 04/18/2025

Continuing Calib Time: 16:48 **Initial Calibration Time(s):** 13:56 14:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.07	8.08	7.98	8.18	0.01
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
alpha-BHC	3.40	3.40	3.30	3.50	0.01
beta-BHC	4.03	4.03	3.93	4.13	0.00
delta-BHC	4.26	4.27	4.17	4.37	0.01
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.09	4.09	3.99	4.19	0.00
Aldrin	4.37	4.37	4.27	4.47	0.00
Heptachlor epoxide	4.87	4.88	4.78	4.98	0.01
Endosulfan I	5.25	5.25	5.15	5.35	0.00
Dieldrin	5.52	5.52	5.42	5.62	0.01
4,4'-DDE	5.38	5.38	5.28	5.48	0.00
Endrin	5.79	5.79	5.69	5.89	0.00
Endosulfan II	6.08	6.08	5.98	6.18	0.00
4,4'-DDD	5.93	5.93	5.83	6.03	0.00
Endosulfan sulfate	6.48	6.49	6.39	6.59	0.01
4,4'-DDT	6.19	6.19	6.09	6.29	0.00
Methoxychlor	6.76	6.76	6.66	6.86	0.00
Endrin ketone	6.99	7.00	6.90	7.10	0.01
Endrin aldehyde	6.26	6.26	6.16	6.36	0.00
alpha-Chlordane	5.19	5.19	5.09	5.29	0.00
gamma-Chlordane	5.13	5.13	5.03	5.23	0.00

Alliance TECHNICAL GROUP

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

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No.: CCAL01 **Date Analyzed:** 05/13/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088524.D **Time Analyzed:** 16:48

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.706	6.606	6.806	56.820	50.000	13.6
4,4'-DDE	6.197	6.097	6.297	53.840	50.000	7.7
4,4'-DDT	7.022	6.922	7.122	53.660	50.000	7.3
Aldrin	5.273	5.173	5.373	56.720	50.000	13.4
alpha-BHC	4.001	3.901	4.101	56.520	50.000	13.0
alpha-Chlordane	6.028	5.929	6.129	57.810	50.000	15.6
beta-BHC	4.517	4.416	4.616	55.090	50.000	10.2
Decachlorobiphenyl	9.074	8.975	9.175	49.430	50.000	-1.1
delta-BHC	4.765	4.665	4.865	55.970	50.000	11.9
Dieldrin	6.348	6.249	6.449	56.300	50.000	12.6
Endosulfan I	6.076	5.976	6.176	56.860	50.000	13.7
Endosulfan II	6.787	6.687	6.887	54.150	50.000	8.3
Endosulfan sulfate	7.150	7.050	7.250	54.210	50.000	8.4
Endrin	6.576	6.476	6.676	54.730	50.000	9.5
Endrin aldehyde	6.916	6.816	7.016	52.890	50.000	5.8
Endrin ketone	7.631	7.531	7.731	54.050	50.000	8.1
gamma-BHC (Lindane)	4.332	4.232	4.432	55.700	50.000	11.4
gamma-Chlordane	5.946	5.847	6.047	55.640	50.000	11.3
Heptachlor	4.931	4.831	5.031	56.770	50.000	13.5
Heptachlor epoxide	5.692	5.592	5.792	56.460	50.000	12.9
Methoxychlor	7.494	7.395	7.595	52.400	50.000	4.8
Tetrachloro-m-xylene	3.552	3.452	3.652	53.640	50.000	7.3

Alliance TECHNICAL GROUP

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

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No.: CCAL01 **Date Analyzed:** 05/13/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088524.D **Time Analyzed:** 16:48

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.932	5.834	6.034	49.430	50.000	-1.1
4,4'-DDE	5.376	5.280	5.480	48.950	50.000	-2.1
4,4'-DDT	6.186	6.088	6.288	48.560	50.000	-2.9
Aldrin	4.369	4.273	4.473	49.770	50.000	-0.5
alpha-BHC	3.395	3.296	3.496	49.860	50.000	-0.3
alpha-Chlordane	5.192	5.094	5.294	48.800	50.000	-2.4
beta-BHC	4.027	3.928	4.128	49.070	50.000	-1.9
Decachlorobiphenyl	8.074	7.977	8.177	43.990	50.000	-12.0
delta-BHC	4.264	4.165	4.365	50.030	50.000	0.1
Dieldrin	5.515	5.417	5.617	49.090	50.000	-1.8
Endosulfan I	5.248	5.151	5.351	42.440	50.000	-15.1
Endosulfan II	6.082	5.984	6.184	48.880	50.000	-2.2
Endosulfan sulfate	6.484	6.386	6.586	47.580	50.000	-4.8
Endrin	5.792	5.693	5.893	48.940	50.000	-2.1
Endrin aldehyde	6.261	6.163	6.363	46.940	50.000	-6.1
Endrin ketone	6.993	6.895	7.095	47.120	50.000	-5.8
gamma-BHC (Lindane)	3.731	3.633	3.833	49.140	50.000	-1.7
gamma-Chlordane	5.128	5.030	5.230	49.070	50.000	-1.9
Heptachlor	4.085	3.986	4.186	49.080	50.000	-1.8
Heptachlor epoxide	4.874	4.777	4.977	49.180	50.000	-1.6
Methoxychlor	6.757	6.659	6.859	47.040	50.000	-5.9
Tetrachloro-m-xylene	2.882	2.783	2.983	48.860	50.000	-2.3

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051325\
Data File : PD088524.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2025 16:48
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/14/2025
Supervised By :mohammad ahmed 05/20/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 22:44:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.552	2.882	107.1E6	714.4E6	53.638	48.859
28)	SA Decachlor...	9.074	8.074	163.5E6	813.0E6	49.429	43.995
	Target Compounds						
2)	A alpha-BHC	4.001	3.395	243.7E6	1140.0E6	56.519	49.864
3)	MA gamma-BHC...	4.332	3.731	233.3E6	1058.4E6	55.702	49.140
4)	MA Heptachlor	4.931	4.085	229.3E6	1050.2E6	56.765	49.079
5)	MB Aldrin	5.273	4.369	224.0E6	1035.4E6	56.719	49.771m
6)	B beta-BHC	4.517	4.027	89438678	454.1E6	55.094	49.071
7)	B delta-BHC	4.765	4.264	230.9E6	1063.8E6	55.967	50.033
8)	B Heptachlo...	5.692	4.874	201.8E6	929.2E6	56.458	49.181
9)	A Endosulfan I	6.076	5.248	192.0E6	764.4E6	56.860	42.440 #
10)	B gamma-Chl...	5.946	5.128	201.5E6	996.0E6	55.636m	49.074
11)	B alpha-Chl...	6.028	5.192	208.7E6	956.7E6	57.811	48.803
12)	B 4,4'-DDE	6.197	5.376	177.6E6	964.0E6	53.838	48.951m
13)	MA Dieldrin	6.348	5.515	200.9E6	978.5E6	56.304	49.088
14)	MA Endrin	6.576	5.792	163.2E6	890.9E6	54.734	48.942
15)	B Endosulfa...	6.787	6.082	169.3E6	856.5E6	54.148	48.880
16)	A 4,4'-DDD	6.706	5.932	142.9E6	810.0E6	56.824	49.430
17)	MA 4,4'-DDT	7.022	6.186	149.0E6	826.4E6	53.657	48.562
18)	B Endrin al...	6.916	6.261	122.1E6	624.3E6	52.893	46.939
19)	B Endosulfa...	7.150	6.484	155.9E6	815.2E6	54.215	47.583
20)	A Methoxychlor	7.494	6.757	78569308	429.0E6	52.395	47.037
21)	B Endrin ke...	7.631	6.993	166.8E6	881.3E6	54.053	47.119
22)	Mirex	8.115	7.188	123.0E6	683.4E6	52.377	46.114

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

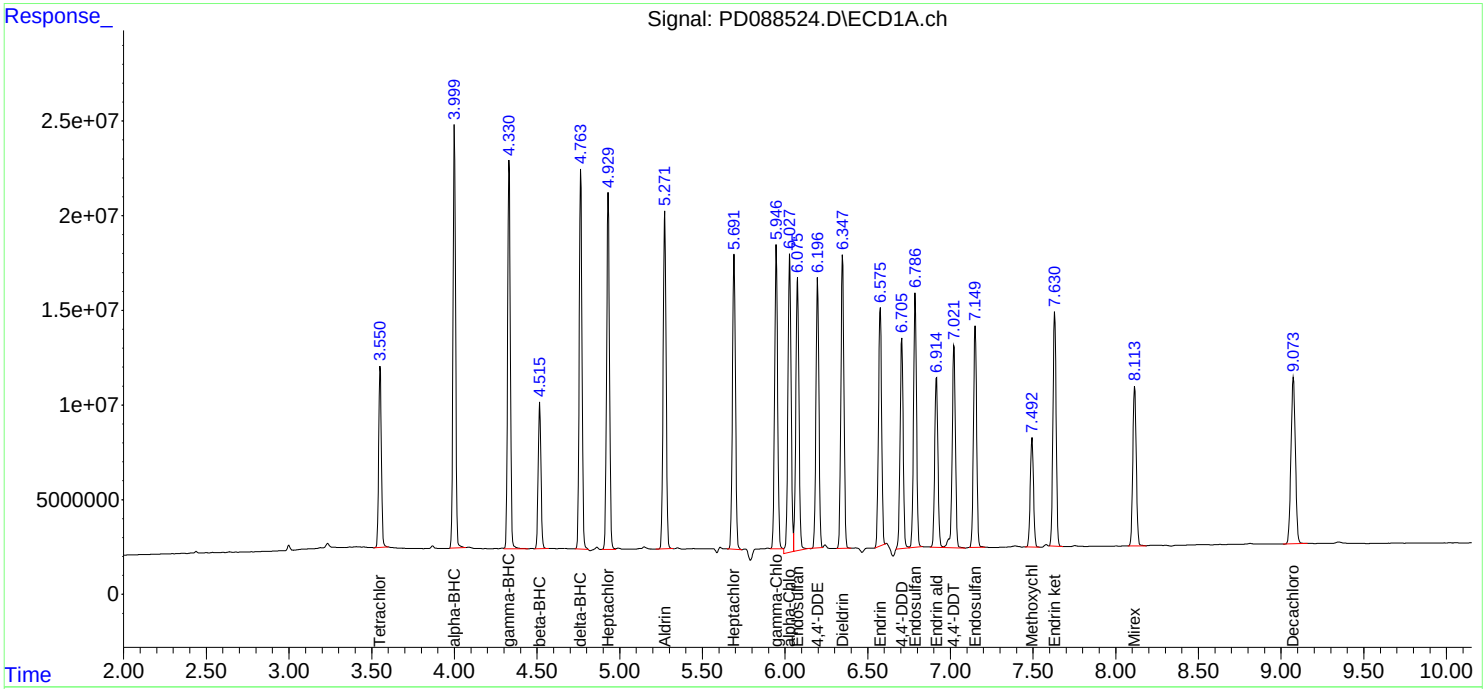
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051325\
Data File : PD088524.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2025 16:48
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

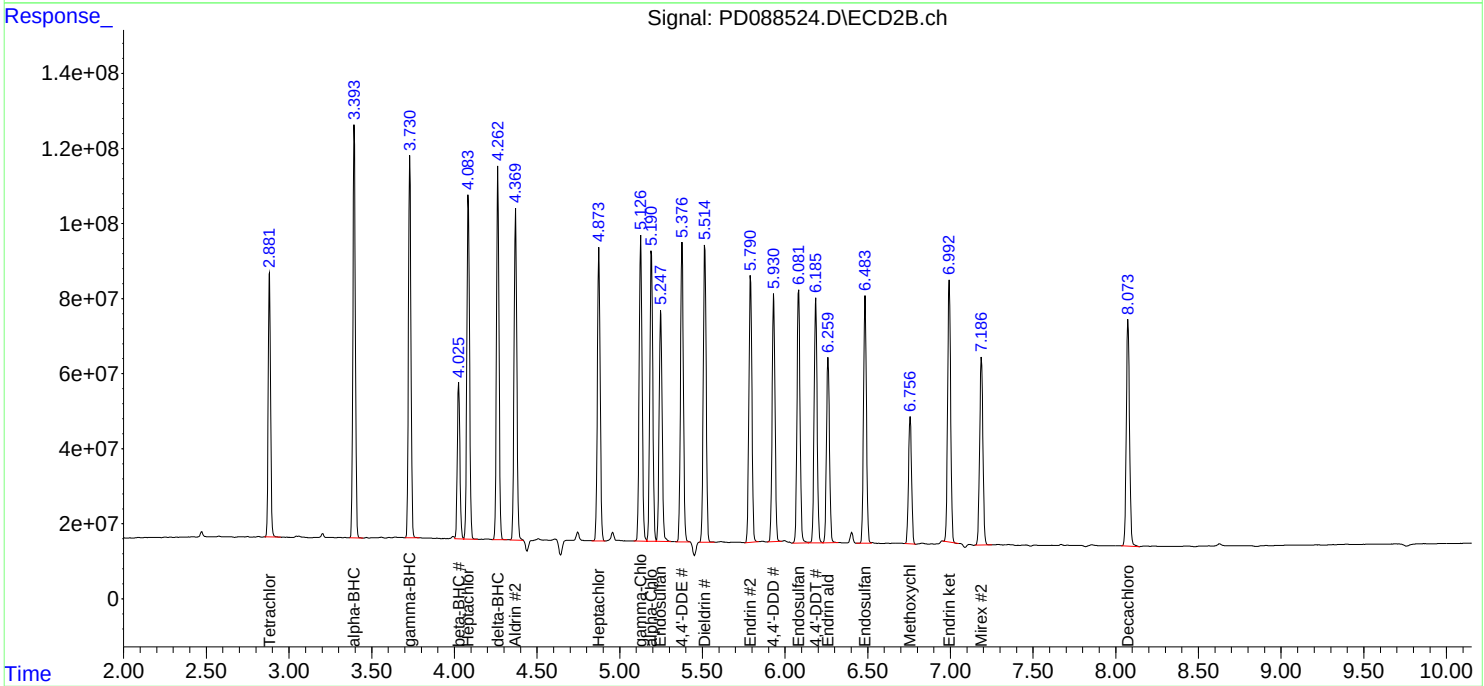
Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

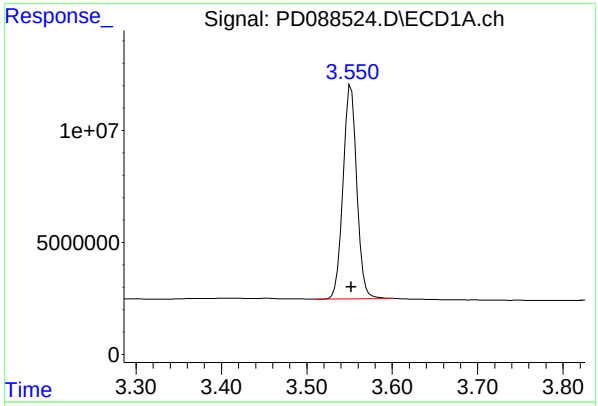
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/14/2025
Supervised By :mohammad ahmed 05/20/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 22:44:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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







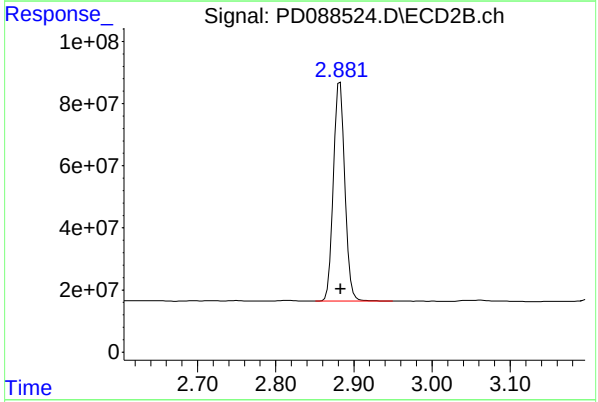
#1 Tetrachloro-m-xylene

R.T.: 3.552 min
Delta R.T.: 0.000 min
Response: 107136438
Conc: 53.64 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

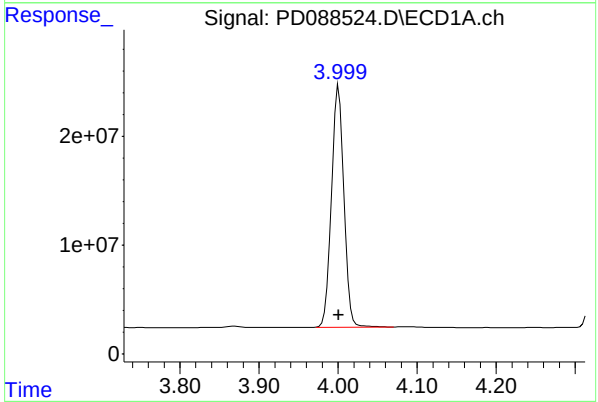
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/14/2025
Supervised By :mohammad ahmed 05/20/2025



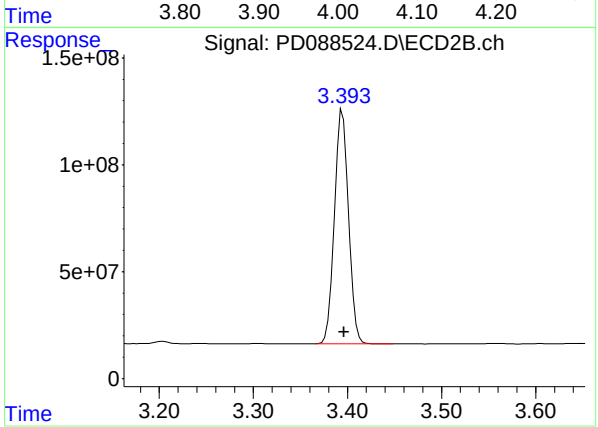
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 714405025
Conc: 48.86 ng/ml



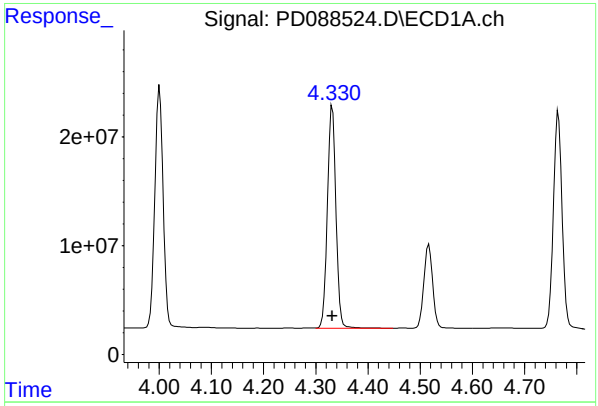
#2 alpha-BHC

R.T.: 4.001 min
Delta R.T.: 0.000 min
Response: 243708905
Conc: 56.52 ng/ml



#2 alpha-BHC

R.T.: 3.395 min
Delta R.T.: -0.001 min
Response: 1139962171
Conc: 49.86 ng/ml



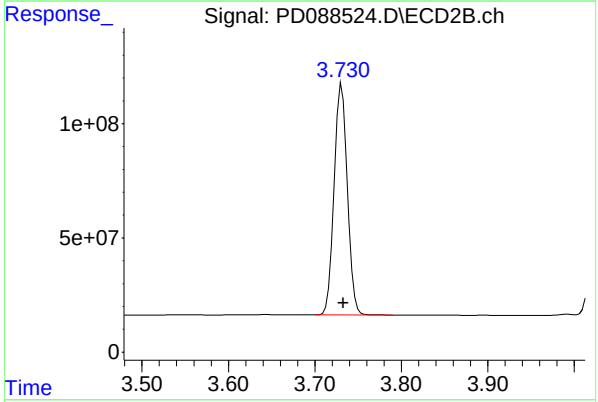
#3 gamma-BHC (Lindane)

R.T.: 4.332 min
Delta R.T.: 0.000 min
Response: 233252384
Conc: 55.70 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

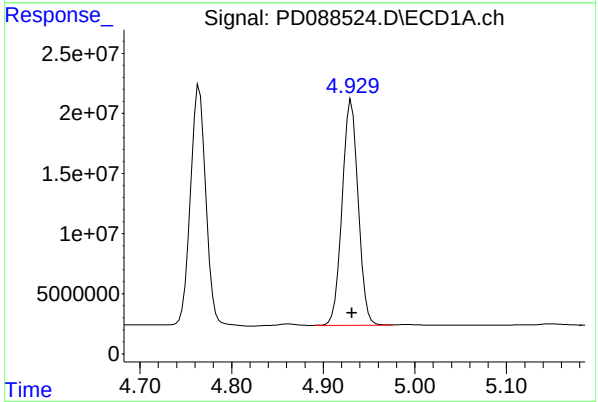
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/14/2025
Supervised By :mohammad ahmed 05/20/2025



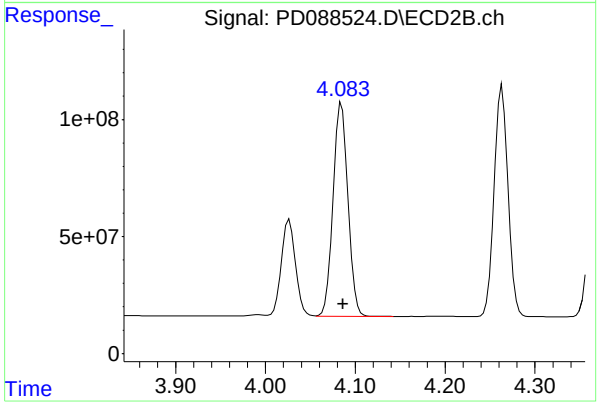
#3 gamma-BHC (Lindane)

R.T.: 3.731 min
Delta R.T.: -0.002 min
Response: 1058400654
Conc: 49.14 ng/ml



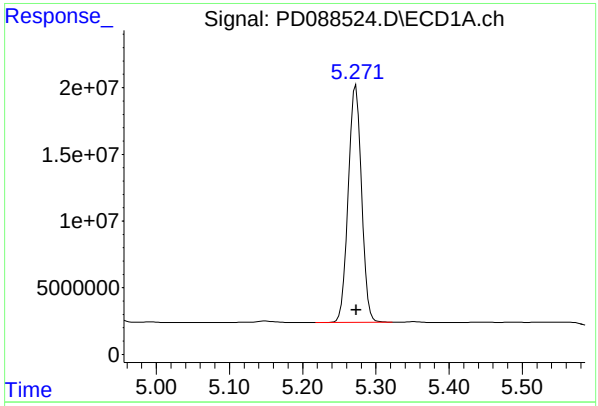
#4 Heptachlor

R.T.: 4.931 min
Delta R.T.: 0.000 min
Response: 229272463
Conc: 56.77 ng/ml



#4 Heptachlor

R.T.: 4.085 min
Delta R.T.: -0.002 min
Response: 1050209800
Conc: 49.08 ng/ml



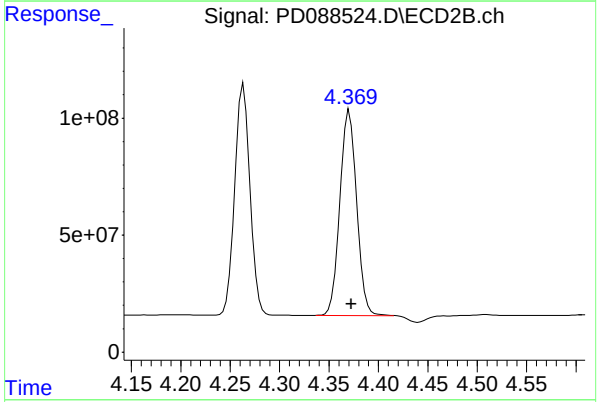
#5 Aldrin

R.T.: 5.273 min
Delta R.T.: 0.000 mi
Response: 224017777
Conc: 56.72 ng/m

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

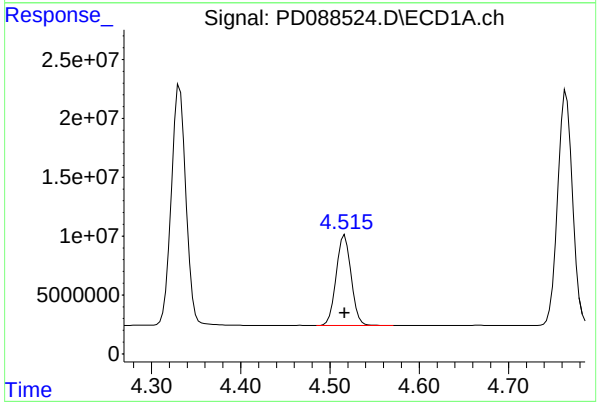
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/14/2025
Supervised By :mohammad ahmed 05/20/2025



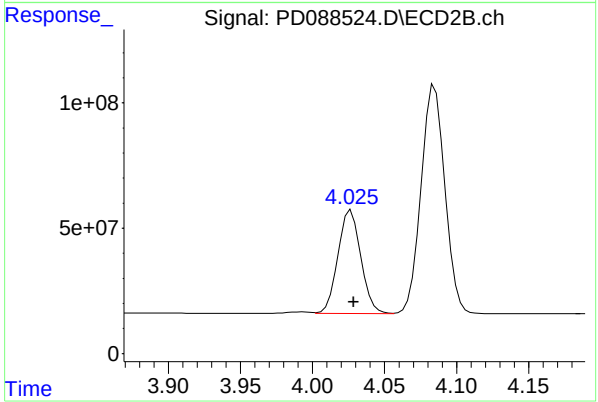
#5 Aldrin

R.T.: 4.369 min
Delta R.T.: -0.003 min
Response: 1035365895
Conc: 49.77 ng/ml m



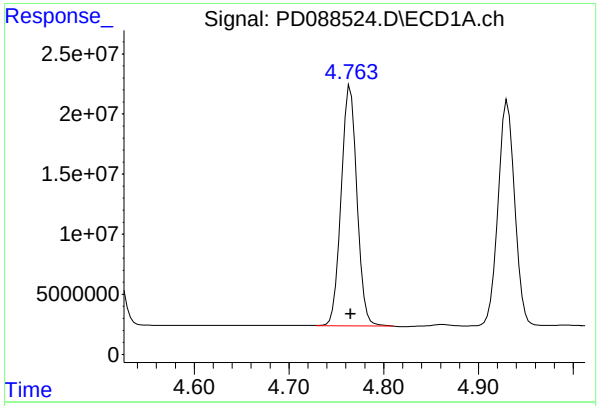
#6 beta-BHC

R.T.: 4.517 min
Delta R.T.: 0.000 min
Response: 89438678
Conc: 55.09 ng/ml



#6 beta-BHC

R.T.: 4.027 min
Delta R.T.: -0.002 min
Response: 454107972
Conc: 49.07 ng/ml



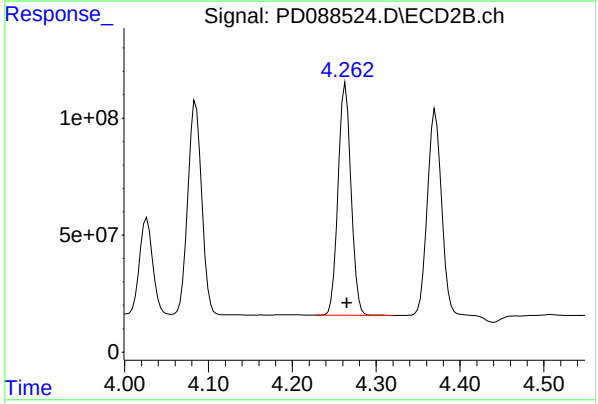
#7 delta-BHC

R.T.: 4.765 min
Delta R.T.: 0.000 min
Response: 230862398
Conc: 55.97 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

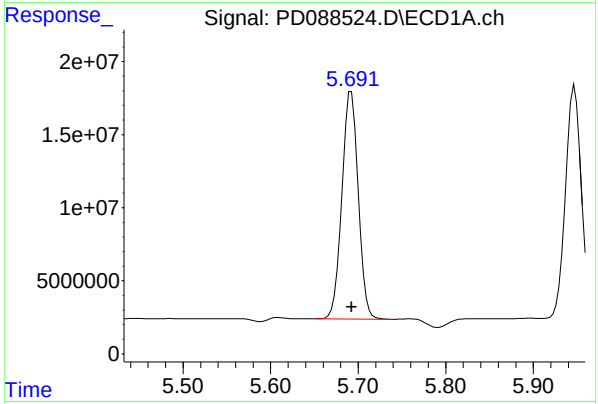
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/14/2025
Supervised By :mohammad ahmed 05/20/2025



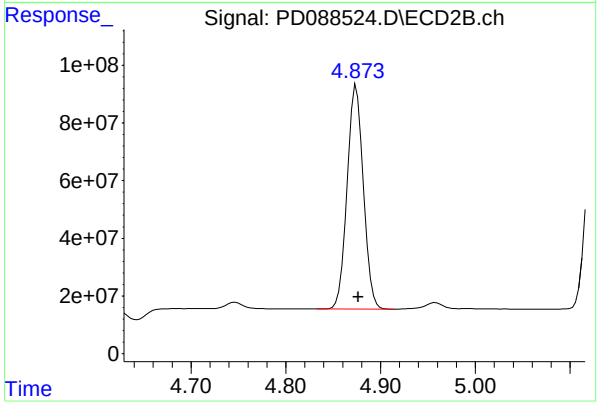
#7 delta-BHC

R.T.: 4.264 min
Delta R.T.: -0.002 min
Response: 1063788564
Conc: 50.03 ng/ml



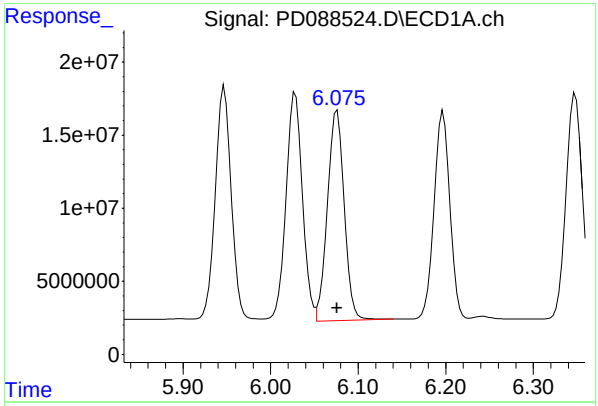
#8 Heptachlor epoxide

R.T.: 5.692 min
Delta R.T.: 0.000 min
Response: 201778154
Conc: 56.46 ng/ml



#8 Heptachlor epoxide

R.T.: 4.874 min
Delta R.T.: -0.002 min
Response: 929245337
Conc: 49.18 ng/ml



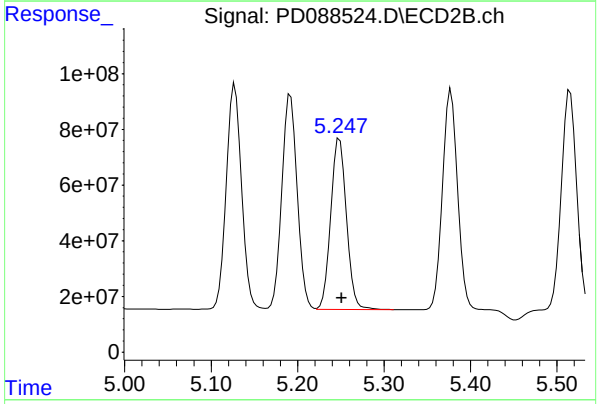
#9 Endosulfan I

R.T.: 6.076 min
Delta R.T.: 0.000 mi
Response: 192023160
Conc: 56.86 ng/m

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

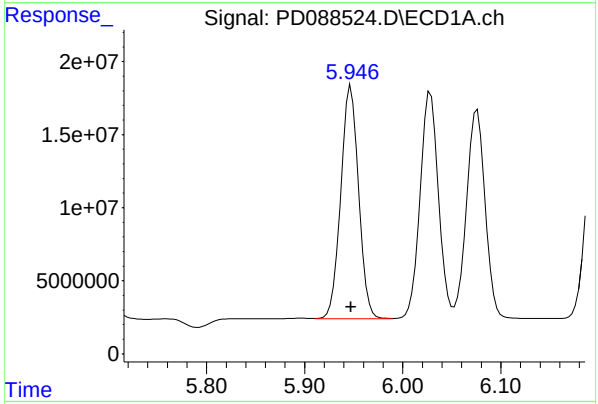
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/14/2025
Supervised By :mohammad ahmed 05/20/2025



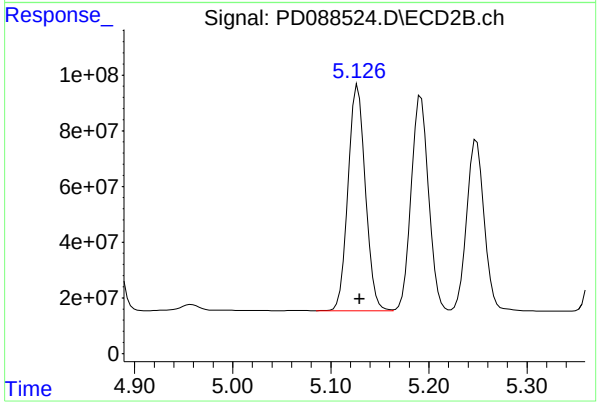
#9 Endosulfan I

R.T.: 5.248 min
Delta R.T.: -0.003 min
Response: 764441776
Conc: 42.44 ng/ml



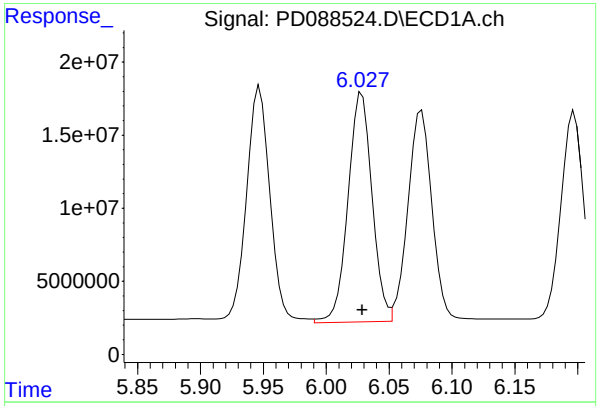
#10 gamma-Chlordane

R.T.: 5.946 min
Delta R.T.: -0.001 min
Response: 201518290
Conc: 55.64 ng/ml m



#10 gamma-Chlordane

R.T.: 5.128 min
Delta R.T.: -0.002 min
Response: 996003252
Conc: 49.07 ng/ml



#11 alpha-Chlordane

R.T.: 6.028 min
Delta R.T.: 0.000 min
Response: 208671838
Conc: 57.81 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

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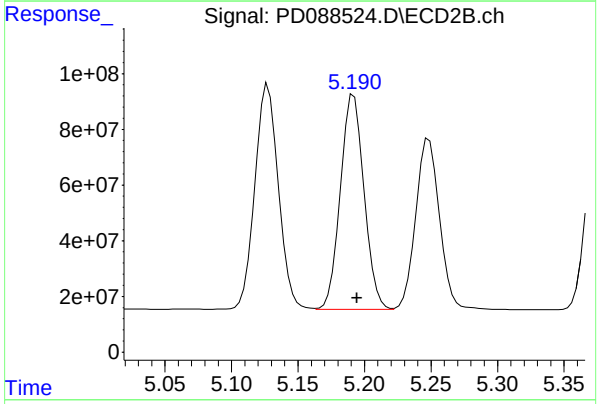
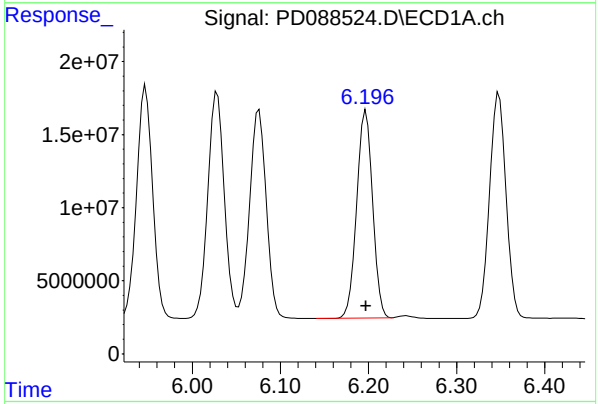
Supervised By :mohammad ahmed 05/20/2025



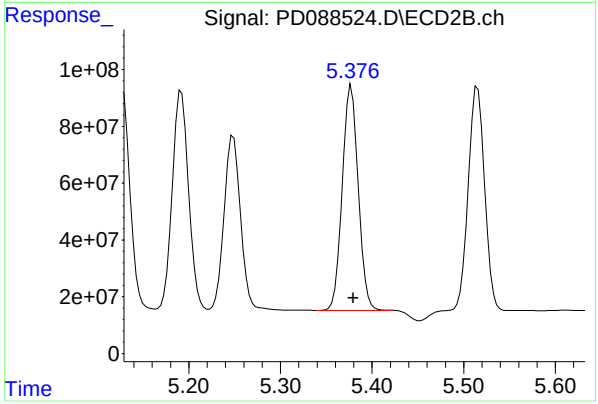
#11 alpha-Chlordane

R.T.: 5.192 min
Delta R.T.: -0.002 min
Response: 956679979
Conc: 48.80 ng/ml



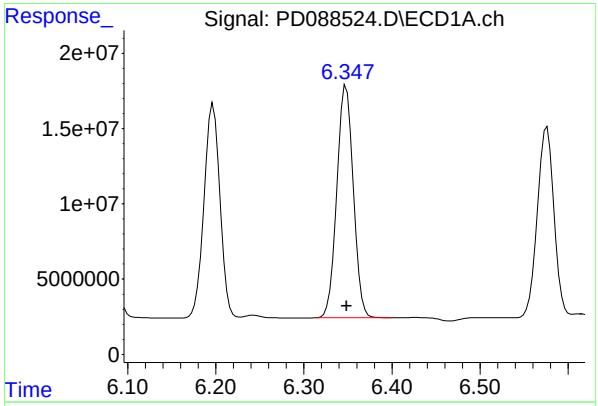
#12 4,4'-DDE

R.T.: 6.197 min
Delta R.T.: 0.000 min
Response: 177570817
Conc: 53.84 ng/ml



#12 4,4'-DDE

R.T.: 5.376 min
Delta R.T.: -0.004 min
Response: 964039661
Conc: 48.95 ng/ml m



#13 Dieldrin

R.T.: 6.348 min
Delta R.T.: 0.000 min
Response: 200920361
Conc: 56.30 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

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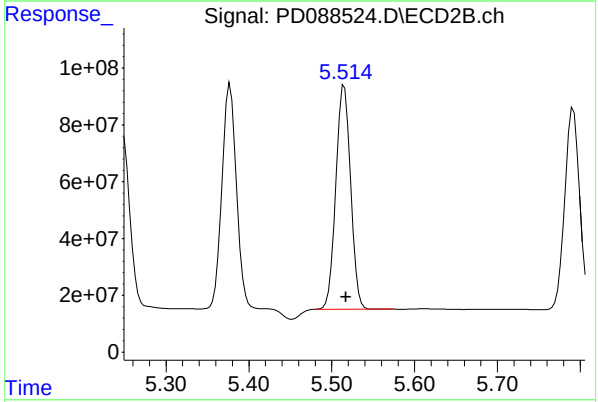
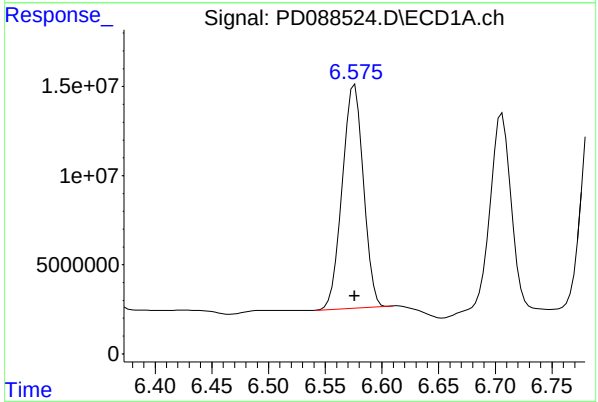
Supervised By :mohammad ahmed 05/20/2025



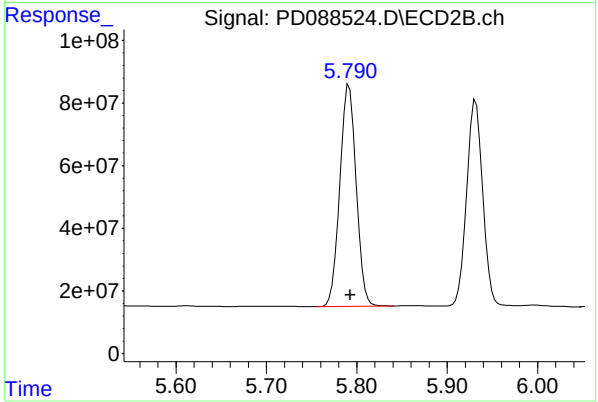
#13 Dieldrin

R.T.: 5.515 min
Delta R.T.: -0.002 min
Response: 978468096
Conc: 49.09 ng/ml



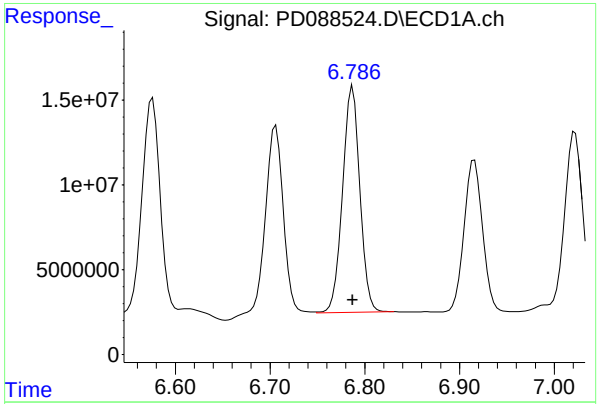
#14 Endrin

R.T.: 6.576 min
Delta R.T.: 0.000 min
Response: 163249144
Conc: 54.73 ng/ml



#14 Endrin

R.T.: 5.792 min
Delta R.T.: -0.001 min
Response: 890864694
Conc: 48.94 ng/ml



#15 Endosulfan II

R.T.: 6.787 min
Delta R.T.: 0.000 min
Response: 169277979
Conc: 54.15 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

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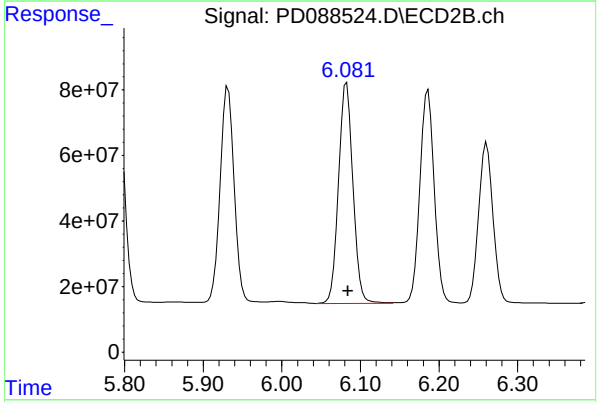
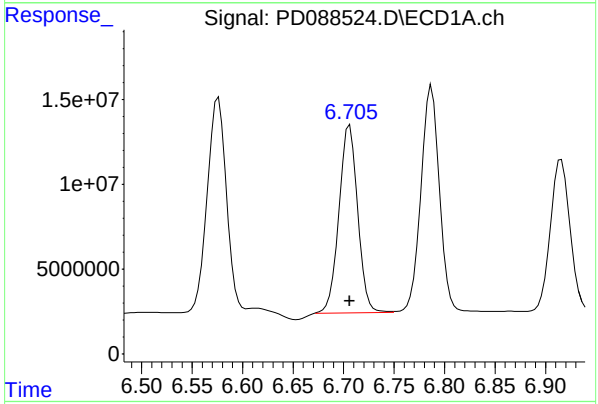


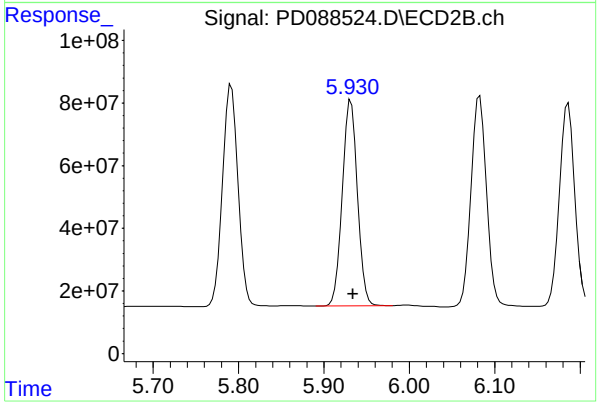
#15 Endosulfan II

R.T.: 6.082 min
Delta R.T.: -0.002 min
Response: 856460839
Conc: 48.88 ng/ml



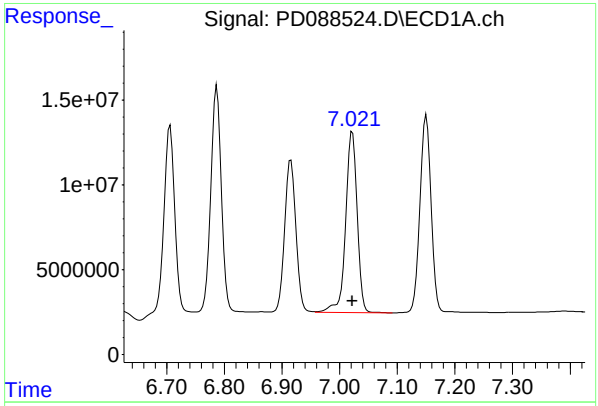
#16 4,4'-DDD

R.T.: 6.706 min
Delta R.T.: 0.000 min
Response: 142910959
Conc: 56.82 ng/ml



#16 4,4'-DDD

R.T.: 5.932 min
Delta R.T.: -0.002 min
Response: 809963025
Conc: 49.43 ng/ml



#17 4,4'-DDT

R.T.: 7.022 min
Delta R.T.: 0.000 min
Response: 149035691
Conc: 53.66 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

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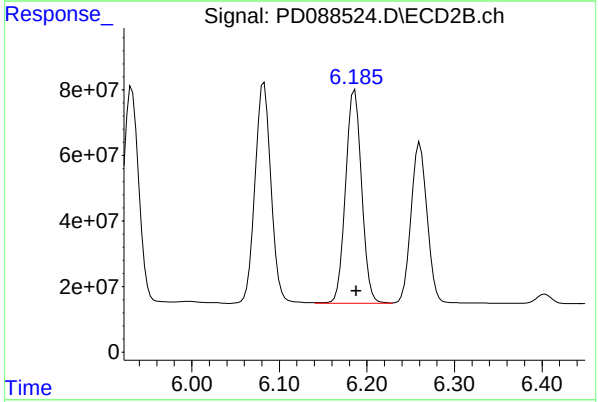
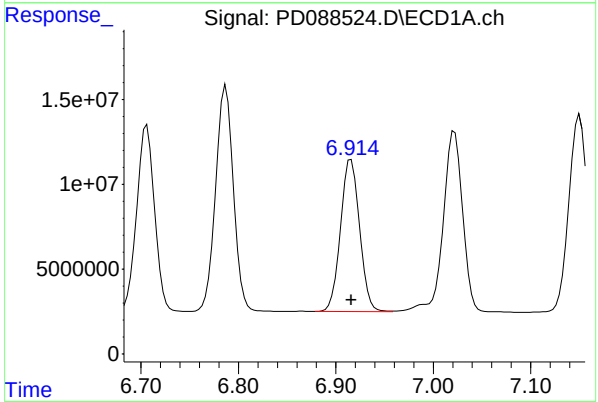


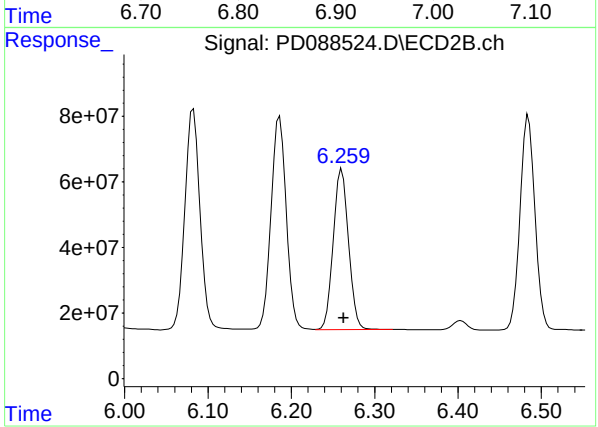
#17 4,4'-DDT

R.T.: 6.186 min
Delta R.T.: -0.002 min
Response: 826353259
Conc: 48.56 ng/ml



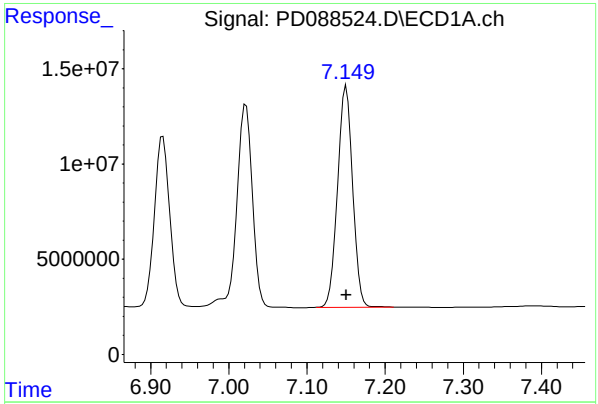
#18 Endrin aldehyde

R.T.: 6.916 min
Delta R.T.: 0.000 min
Response: 122076052
Conc: 52.89 ng/ml



#18 Endrin aldehyde

R.T.: 6.261 min
Delta R.T.: -0.002 min
Response: 624328129
Conc: 46.94 ng/ml



#19 Endosulfan Sulfate

R.T.: 7.150 min
Delta R.T.: 0.000 min
Response: 155912336
Conc: 54.21 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

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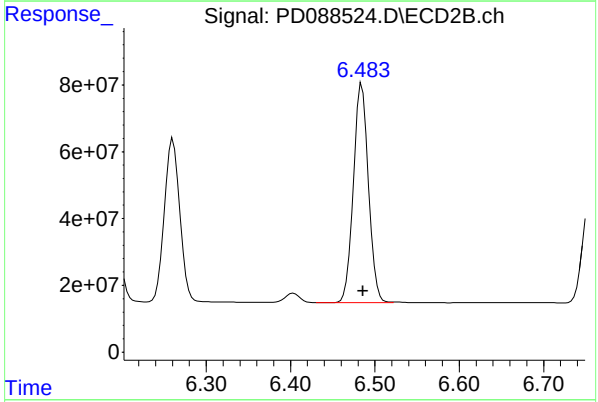
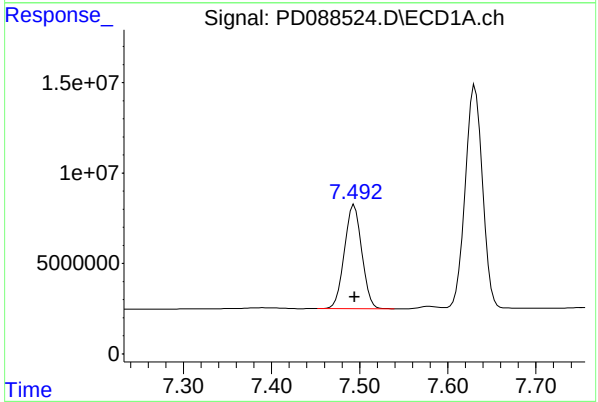
Supervised By :mohammad ahmed 05/20/2025



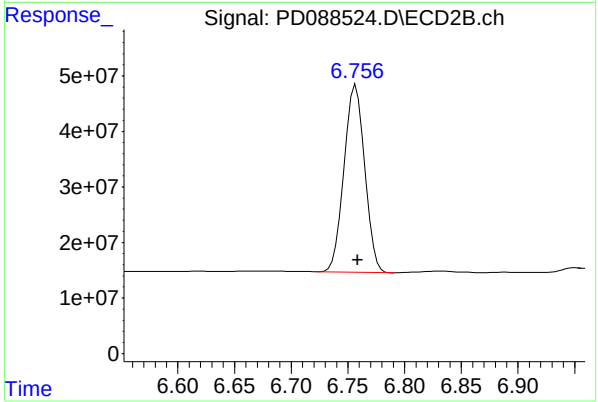
#19 Endosulfan Sulfate

R.T.: 6.484 min
Delta R.T.: -0.002 min
Response: 815247012
Conc: 47.58 ng/ml



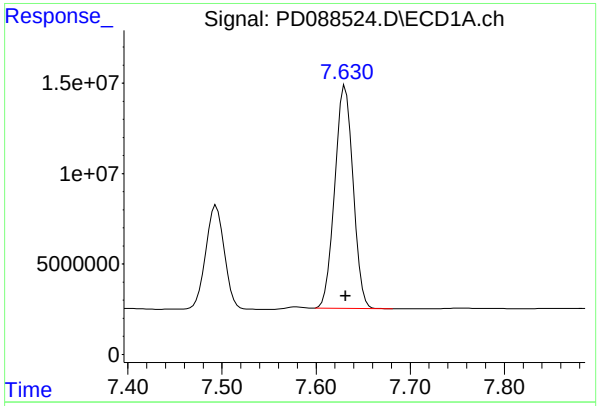
#20 Methoxychlor

R.T.: 7.494 min
Delta R.T.: 0.000 min
Response: 78569308
Conc: 52.40 ng/ml



#20 Methoxychlor

R.T.: 6.757 min
Delta R.T.: -0.002 min
Response: 429023289
Conc: 47.04 ng/ml



#21 Endrin ketone

R.T.: 7.631 min
Delta R.T.: 0.000 min
Response: 166839825
Conc: 54.05 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

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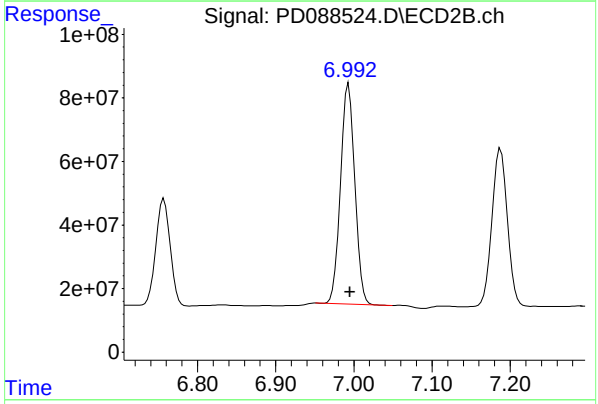
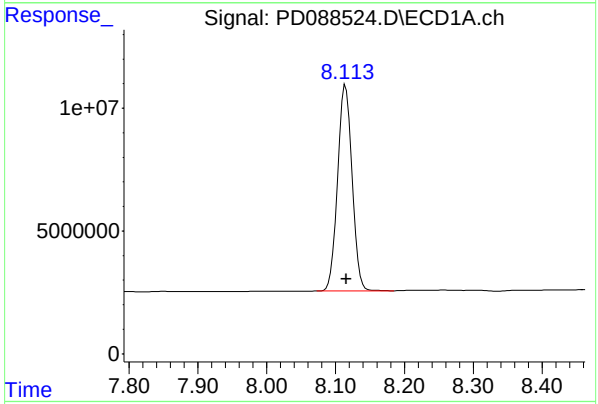


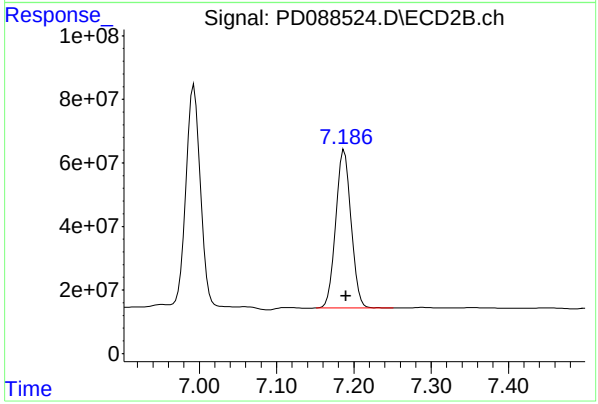
#21 Endrin ketone

R.T.: 6.993 min
Delta R.T.: -0.002 min
Response: 881316314
Conc: 47.12 ng/ml



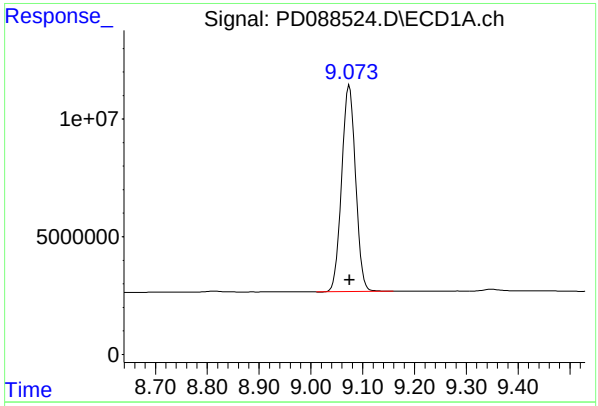
#22 Mirex

R.T.: 8.115 min
Delta R.T.: 0.000 min
Response: 122997574
Conc: 52.38 ng/ml



#22 Mirex

R.T.: 7.188 min
Delta R.T.: -0.002 min
Response: 683447555
Conc: 46.11 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.074 min
Delta R.T.: 0.000 min
Response: 163517713
Conc: 49.43 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/14/2025
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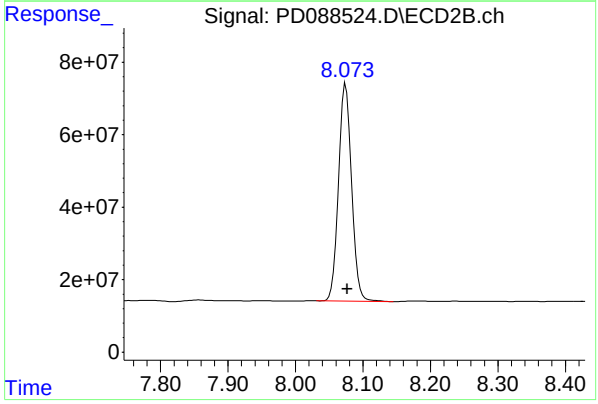

#28 Decachlorobiphenyl

R.T.: 8.074 min
Delta R.T.: -0.002 min
Response: 813008727
Conc: 43.99 ng/ml

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

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Continuing Calib Date: 05/13/2025 **Initial Calibration Date(s):** 04/18/2025 04/18/2025

Continuing Calib Time: 19:46 **Initial Calibration Time(s):** 13:56 14:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.07	9.08	8.98	9.18	0.01
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
alpha-BHC	4.00	4.00	3.90	4.10	0.00
beta-BHC	4.52	4.52	4.42	4.62	0.00
delta-BHC	4.77	4.77	4.67	4.87	0.01
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.93	4.93	4.83	5.03	0.00
Aldrin	5.27	5.27	5.17	5.37	0.00
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.00
Endosulfan I	6.08	6.08	5.98	6.18	0.01
Dieldrin	6.35	6.35	6.25	6.45	0.00
4,4'-DDE	6.20	6.20	6.10	6.30	0.00
Endrin	6.58	6.58	6.48	6.68	0.01
Endosulfan II	6.79	6.79	6.69	6.89	0.00
4,4'-DDD	6.71	6.71	6.61	6.81	0.01
Endosulfan sulfate	7.15	7.15	7.05	7.25	0.00
4,4'-DDT	7.02	7.02	6.92	7.12	0.00
Methoxychlor	7.49	7.50	7.40	7.60	0.01
Endrin ketone	7.63	7.63	7.53	7.73	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.01
alpha-Chlordane	6.03	6.03	5.93	6.13	0.00
gamma-Chlordane	5.95	5.95	5.85	6.05	0.00

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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Continuing Calib Date: 05/13/2025 **Initial Calibration Date(s):** 04/18/2025 04/18/2025

Continuing Calib Time: 19:46 **Initial Calibration Time(s):** 13:56 14:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.07	8.08	7.98	8.18	0.01
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
alpha-BHC	3.40	3.40	3.30	3.50	0.01
beta-BHC	4.03	4.03	3.93	4.13	0.00
delta-BHC	4.26	4.27	4.17	4.37	0.01
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.09	4.09	3.99	4.19	0.00
Aldrin	4.37	4.37	4.27	4.47	0.00
Heptachlor epoxide	4.87	4.88	4.78	4.98	0.01
Endosulfan I	5.25	5.25	5.15	5.35	0.00
Dieldrin	5.52	5.52	5.42	5.62	0.01
4,4'-DDE	5.38	5.38	5.28	5.48	0.00
Endrin	5.79	5.79	5.69	5.89	0.00
Endosulfan II	6.08	6.08	5.98	6.18	0.00
4,4'-DDD	5.93	5.93	5.83	6.03	0.00
Endosulfan sulfate	6.48	6.49	6.39	6.59	0.01
4,4'-DDT	6.19	6.19	6.09	6.29	0.00
Methoxychlor	6.76	6.76	6.66	6.86	0.00
Endrin ketone	6.99	7.00	6.90	7.10	0.01
Endrin aldehyde	6.26	6.26	6.16	6.36	0.00
alpha-Chlordane	5.19	5.19	5.09	5.29	0.00
gamma-Chlordane	5.13	5.13	5.03	5.23	0.00

Alliance TECHNICAL GROUP

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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No.: CCAL02 **Date Analyzed:** 05/13/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088537.D **Time Analyzed:** 19:46

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.705	6.606	6.806	55.770	50.000	11.5
4,4'-DDE	6.196	6.097	6.297	52.660	50.000	5.3
4,4'-DDT	7.021	6.922	7.122	52.310	50.000	4.6
Aldrin	5.273	5.173	5.373	56.150	50.000	12.3
alpha-BHC	4.001	3.901	4.101	56.370	50.000	12.7
alpha-Chlordane	6.028	5.929	6.129	57.060	50.000	14.1
beta-BHC	4.516	4.416	4.616	54.700	50.000	9.4
Decachlorobiphenyl	9.072	8.975	9.175	48.530	50.000	-2.9
delta-BHC	4.765	4.665	4.865	55.790	50.000	11.6
Dieldrin	6.348	6.249	6.449	55.340	50.000	10.7
Endosulfan I	6.075	5.976	6.176	56.160	50.000	12.3
Endosulfan II	6.786	6.687	6.887	53.180	50.000	6.4
Endosulfan sulfate	7.150	7.050	7.250	53.210	50.000	6.4
Endrin	6.575	6.476	6.676	53.640	50.000	7.3
Endrin aldehyde	6.915	6.816	7.016	52.180	50.000	4.4
Endrin ketone	7.630	7.531	7.731	52.880	50.000	5.8
gamma-BHC (Lindane)	4.331	4.232	4.432	55.450	50.000	10.9
gamma-Chlordane	5.945	5.847	6.047	54.760	50.000	9.5
Heptachlor	4.931	4.831	5.031	56.180	50.000	12.4
Heptachlor epoxide	5.691	5.592	5.792	55.000	50.000	10.0
Methoxychlor	7.493	7.395	7.595	50.660	50.000	1.3
Tetrachloro-m-xylene	3.551	3.452	3.652	53.660	50.000	7.3

Alliance TECHNICAL GROUP

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

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No.: CCAL02 **Date Analyzed:** 05/13/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088537.D **Time Analyzed:** 19:46

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.932	5.834	6.034	47.580	50.000	-4.8
4,4'-DDE	5.375	5.280	5.480	47.480	50.000	-5.0
4,4'-DDT	6.186	6.088	6.288	46.850	50.000	-6.3
Aldrin	4.369	4.273	4.473	48.520	50.000	-3.0
alpha-BHC	3.395	3.296	3.496	48.820	50.000	-2.4
alpha-Chlordane	5.192	5.094	5.294	47.350	50.000	-5.3
beta-BHC	4.027	3.928	4.128	47.720	50.000	-4.6
Decachlorobiphenyl	8.074	7.977	8.177	40.950	50.000	-18.1
delta-BHC	4.263	4.165	4.365	48.730	50.000	-2.5
Dieldrin	5.515	5.417	5.617	47.510	50.000	-5.0
Endosulfan I	5.248	5.151	5.351	40.920	50.000	-18.2
Endosulfan II	6.082	5.984	6.184	47.150	50.000	-5.7
Endosulfan sulfate	6.484	6.386	6.586	45.830	50.000	-8.3
Endrin	5.791	5.693	5.893	47.710	50.000	-4.6
Endrin aldehyde	6.260	6.163	6.363	45.360	50.000	-9.3
Endrin ketone	6.993	6.895	7.095	45.410	50.000	-9.2
gamma-BHC (Lindane)	3.731	3.633	3.833	48.050	50.000	-3.9
gamma-Chlordane	5.128	5.030	5.230	47.690	50.000	-4.6
Heptachlor	4.085	3.986	4.186	48.050	50.000	-3.9
Heptachlor epoxide	4.874	4.777	4.977	47.860	50.000	-4.3
Methoxychlor	6.756	6.659	6.859	45.410	50.000	-9.2
Tetrachloro-m-xylene	2.882	2.783	2.983	48.160	50.000	-3.7

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051325\
Data File : PD088537.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2025 19:46
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/14/2025
Supervised By :mohammad ahmed 05/20/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 22:47:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.551	2.882	107.2E6	704.1E6	53.660	48.157
28)	SA Decachlor...	9.072	8.074	160.5E6	756.8E6	48.527	40.952
	Target Compounds						
2)	A alpha-BHC	4.001	3.395	243.1E6	1116.0E6	56.370	48.817
3)	MA gamma-BHC...	4.331	3.731	232.2E6	1035.0E6	55.454	48.053
4)	MA Heptachlor	4.931	4.085	226.9E6	1028.2E6	56.184	48.053
5)	MB Aldrin	5.273	4.369	221.8E6	1009.4E6	56.152	48.522m
6)	B beta-BHC	4.516	4.027	88803675	441.6E6	54.703	47.720
7)	B delta-BHC	4.765	4.263	230.1E6	1036.1E6	55.794	48.731
8)	B Heptachlo...	5.691	4.874	196.6E6	904.3E6	55.003	47.861
9)	A Endosulfan I	6.075	5.248	189.7E6	737.0E6	56.164	40.915 #
10)	B gamma-Chl...	5.945	5.128	198.3E6	968.0E6	54.755m	47.695
11)	B alpha-Chl...	6.028	5.192	206.0E6	928.2E6	57.061	47.350
12)	B 4,4'-DDE	6.196	5.375	173.7E6	935.1E6	52.660	47.481m
13)	MA Dieldrin	6.348	5.515	197.5E6	947.1E6	55.339	47.513
14)	MA Endrin	6.575	5.791	160.0E6	868.4E6	53.636	47.711
15)	B Endosulfa...	6.786	6.082	166.2E6	826.1E6	53.178	47.148
16)	A 4,4'-DDD	6.705	5.932	140.3E6	779.6E6	55.768	47.578
17)	MA 4,4'-DDT	7.021	6.186	145.3E6	797.3E6	52.314	46.854
18)	B Endrin al...	6.915	6.260	120.4E6	603.3E6	52.184	45.361
19)	B Endosulfa...	7.150	6.484	153.0E6	785.2E6	53.208	45.829
20)	A Methoxychlor	7.493	6.756	75967499	414.2E6	50.660	45.407
21)	B Endrin ke...	7.630	6.993	163.2E6	849.4E6	52.883	45.415
22)	Mirex	8.114	7.187	121.0E6	644.5E6	51.516	43.486

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

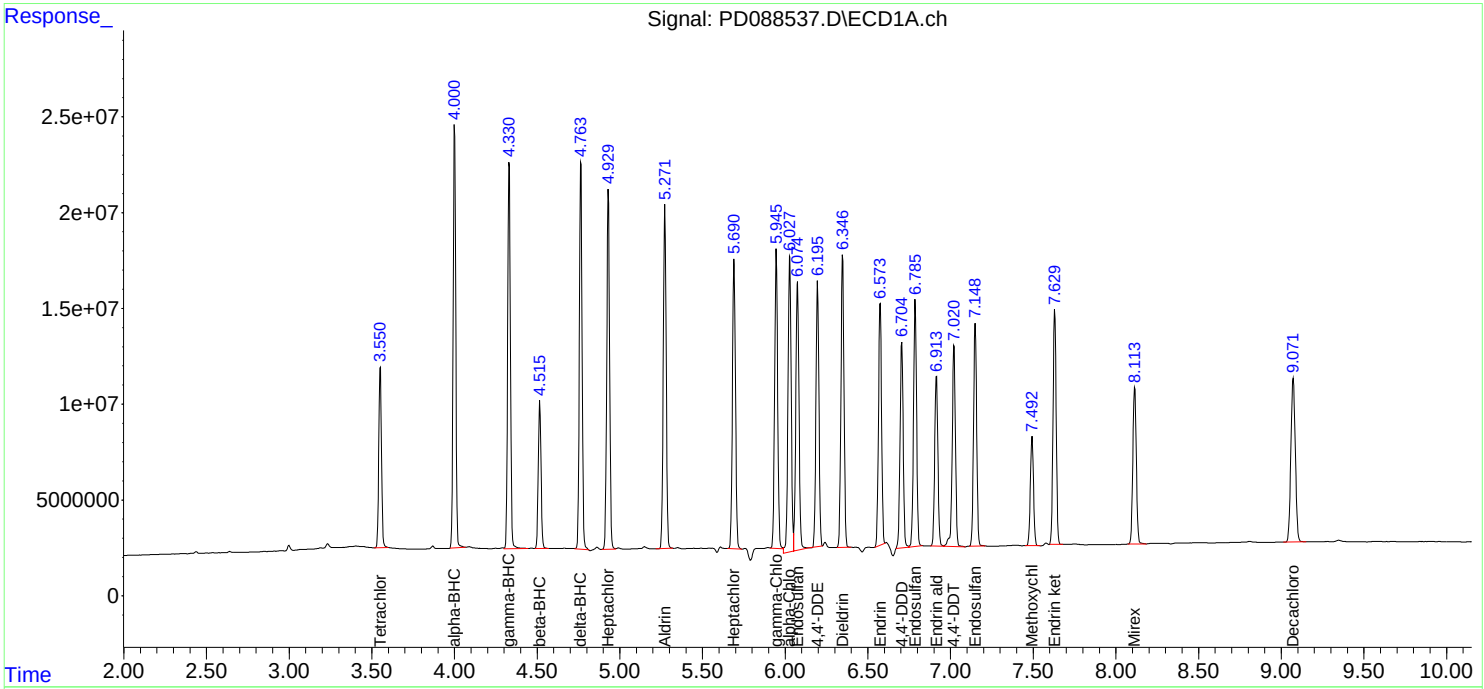
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051325\
Data File : PD088537.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2025 19:46
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

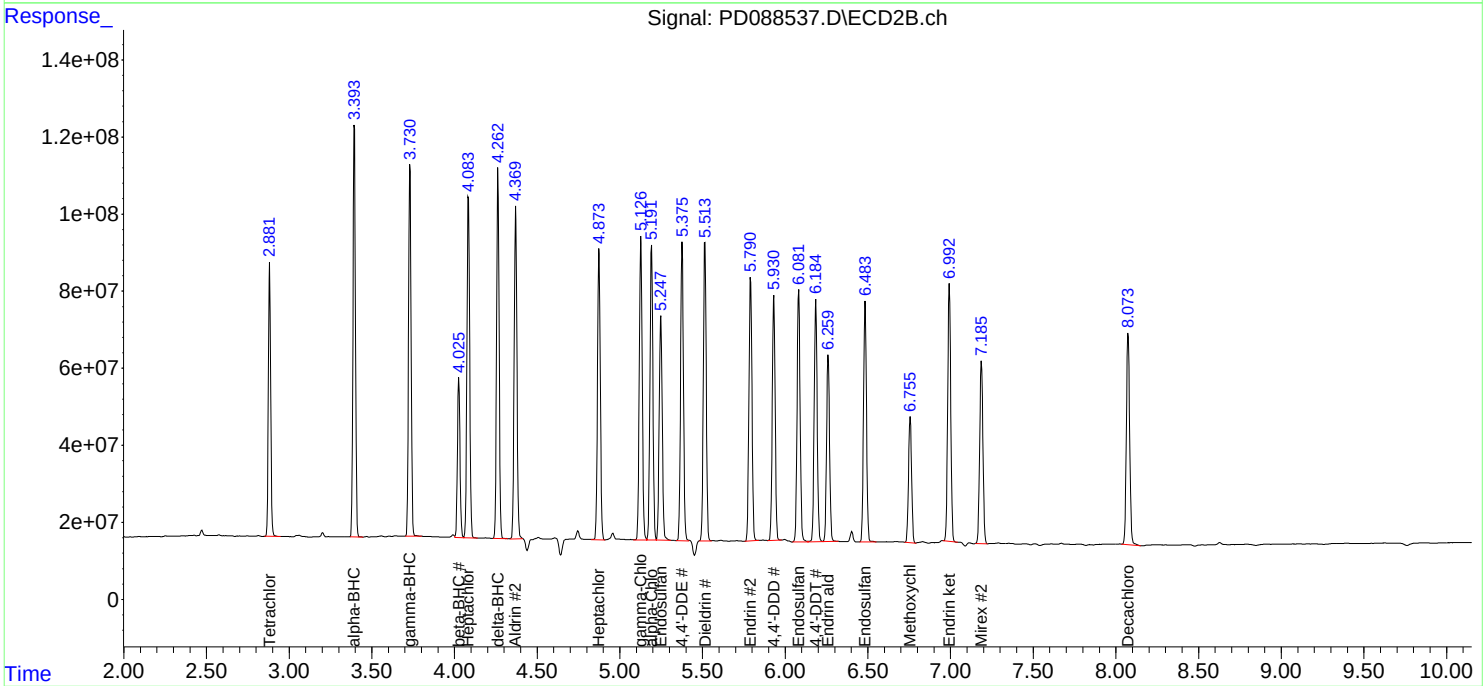
Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

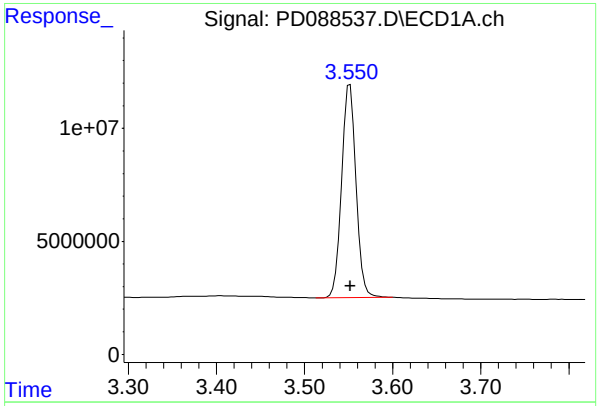
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/14/2025
Supervised By :mohammad ahmed 05/20/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 22:47:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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







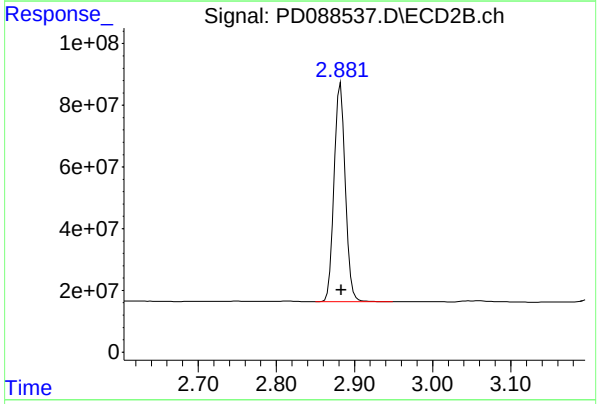
#1 Tetrachloro-m-xylene

R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 107180971
Conc: 53.66 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

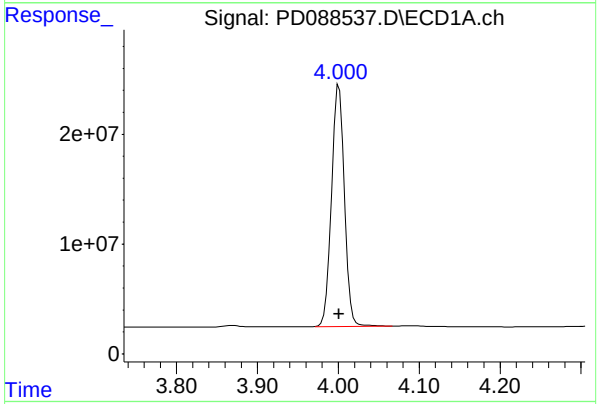
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/14/2025
Supervised By :mohammad ahmed 05/20/2025



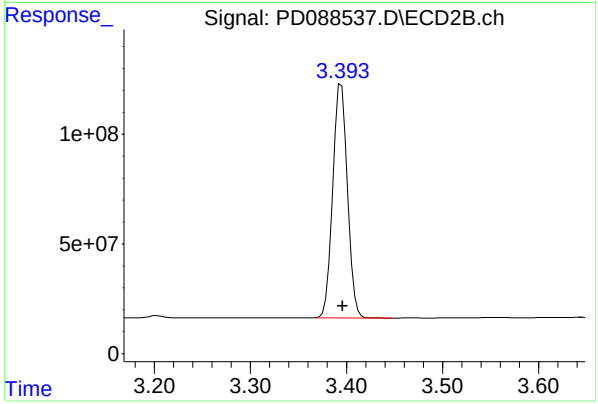
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 704132136
Conc: 48.16 ng/ml



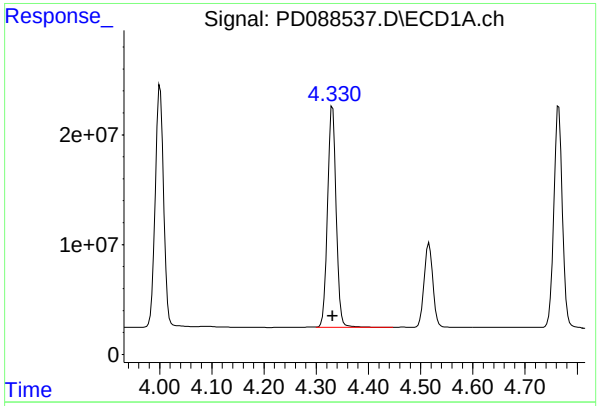
#2 alpha-BHC

R.T.: 4.001 min
Delta R.T.: 0.000 min
Response: 243068070
Conc: 56.37 ng/ml



#2 alpha-BHC

R.T.: 3.395 min
Delta R.T.: -0.002 min
Response: 1116039526
Conc: 48.82 ng/ml



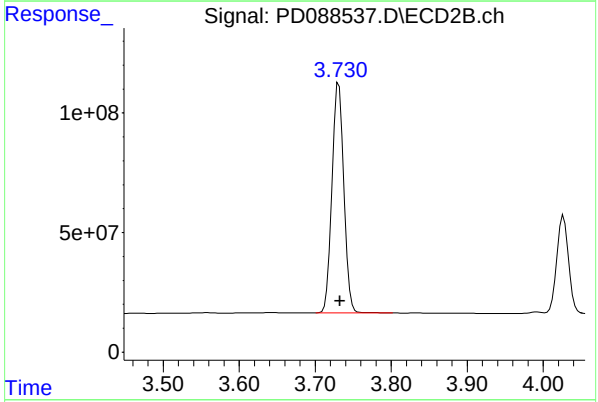
#3 gamma-BHC (Lindane)

R.T.: 4.331 min
Delta R.T.: 0.000 min
Response: 232214324
Conc: 55.45 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

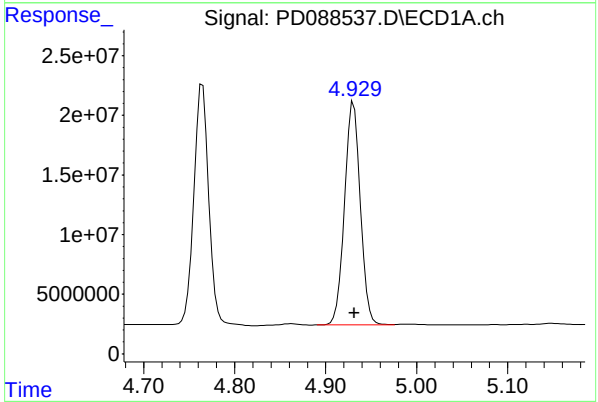
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/14/2025
Supervised By :mohammad ahmed 05/20/2025



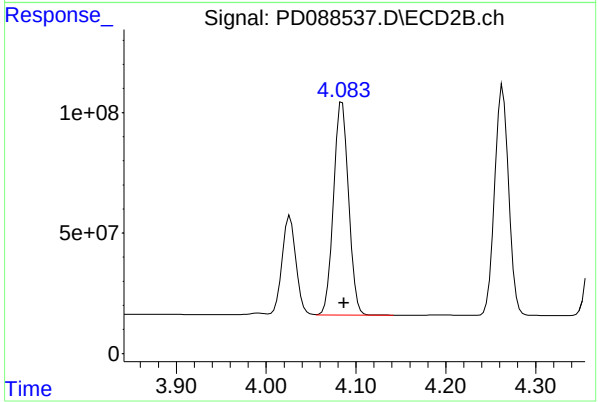
#3 gamma-BHC (Lindane)

R.T.: 3.731 min
Delta R.T.: -0.002 min
Response: 1035004772
Conc: 48.05 ng/ml



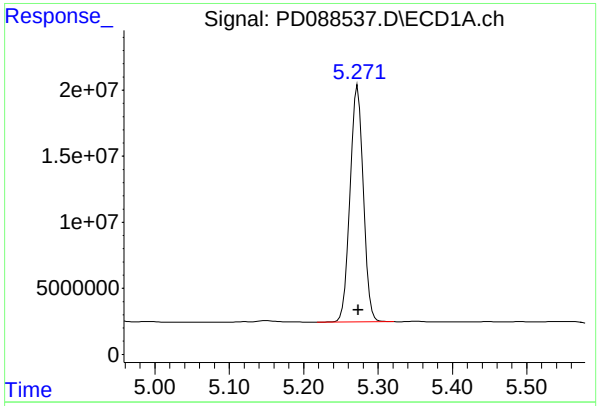
#4 Heptachlor

R.T.: 4.931 min
Delta R.T.: 0.000 min
Response: 226925955
Conc: 56.18 ng/ml



#4 Heptachlor

R.T.: 4.085 min
Delta R.T.: -0.002 min
Response: 1028245887
Conc: 48.05 ng/ml



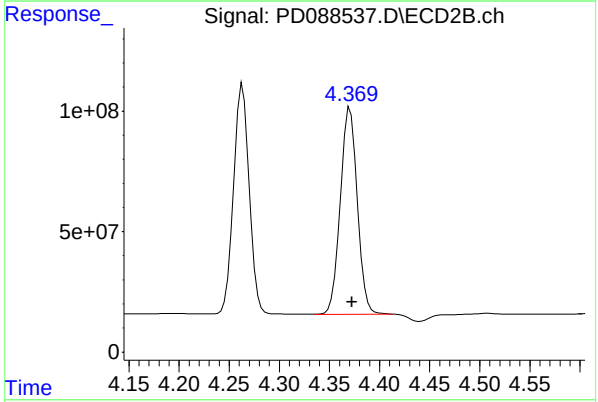
#5 Aldrin

R.T.: 5.273 min
Delta R.T.: 0.000 mi
Response: 221778010
Conc: 56.15 ng/m

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

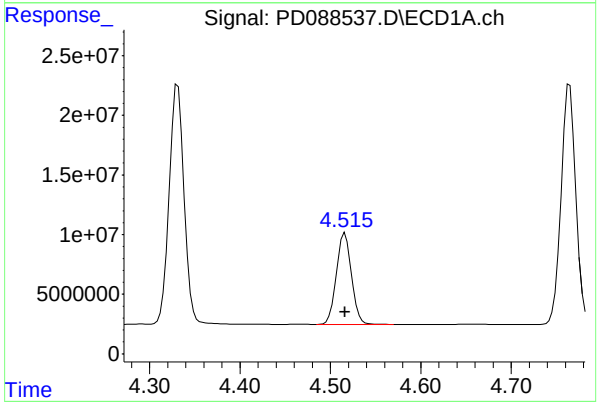
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/14/2025
Supervised By :mohammad ahmed 05/20/2025



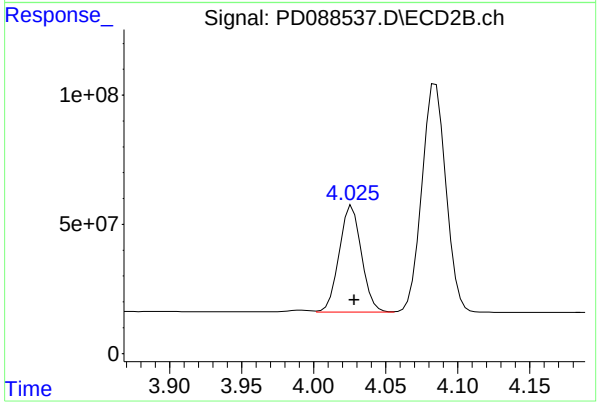
#5 Aldrin

R.T.: 4.369 min
Delta R.T.: -0.003 min
Response: 1009402572
Conc: 48.52 ng/ml m



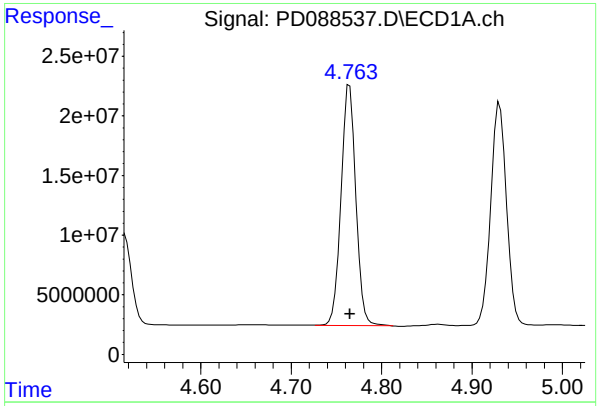
#6 beta-BHC

R.T.: 4.516 min
Delta R.T.: 0.000 min
Response: 88803675
Conc: 54.70 ng/ml



#6 beta-BHC

R.T.: 4.027 min
Delta R.T.: -0.002 min
Response: 441607931
Conc: 47.72 ng/ml



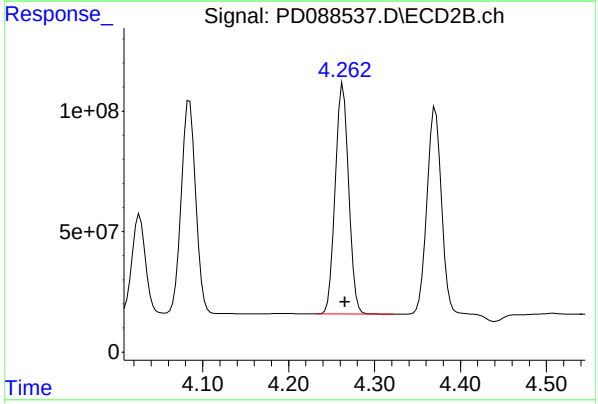
#7 delta-BHC

R.T.: 4.765 min
Delta R.T.: 0.000 min
Response: 230148790
Conc: 55.79 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

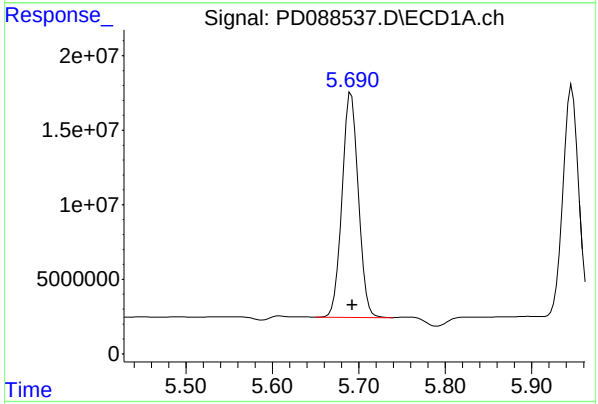
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/14/2025
Supervised By :mohammad ahmed 05/20/2025



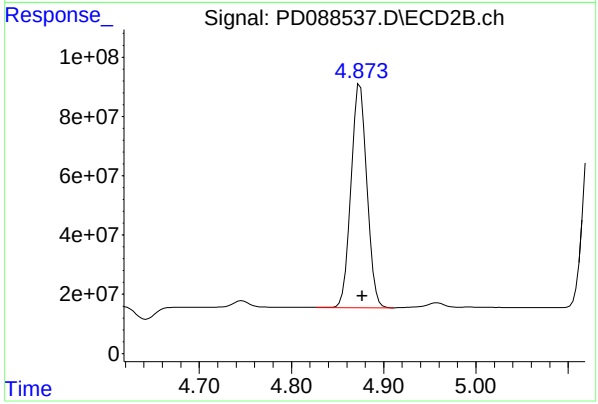
#7 delta-BHC

R.T.: 4.263 min
Delta R.T.: -0.002 min
Response: 1036090184
Conc: 48.73 ng/ml



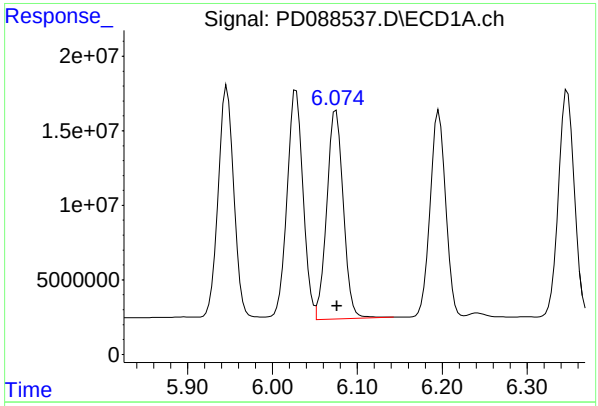
#8 Heptachlor epoxide

R.T.: 5.691 min
Delta R.T.: -0.002 min
Response: 196576386
Conc: 55.00 ng/ml



#8 Heptachlor epoxide

R.T.: 4.874 min
Delta R.T.: -0.002 min
Response: 904291304
Conc: 47.86 ng/ml



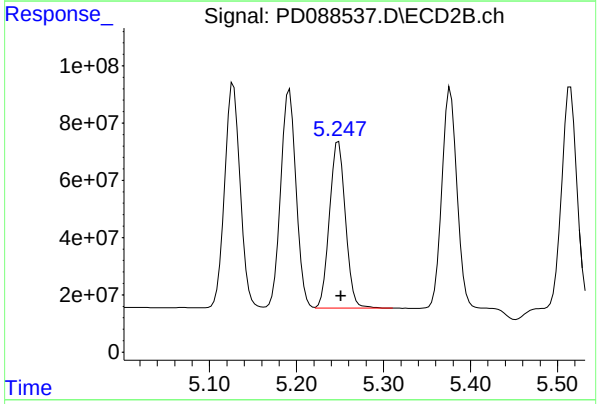
#9 Endosulfan I

R.T.: 6.075 min
Delta R.T.: 0.000 mi
Response: 189673373
Conc: 56.16 ng/m

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

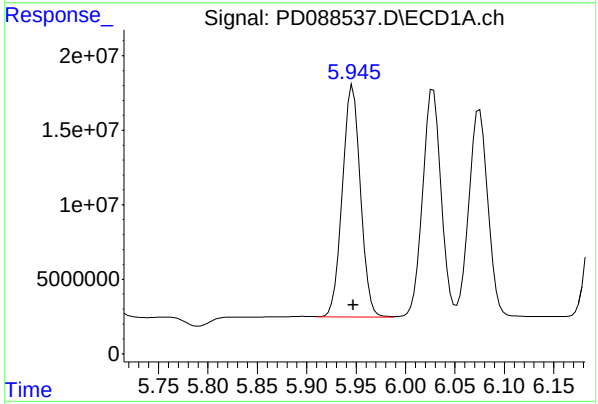
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/14/2025
Supervised By :mohammad ahmed 05/20/2025



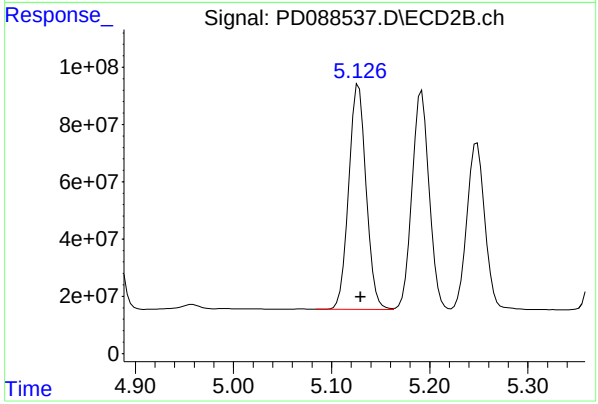
#9 Endosulfan I

R.T.: 5.248 min
Delta R.T.: -0.003 min
Response: 736988144
Conc: 40.92 ng/ml



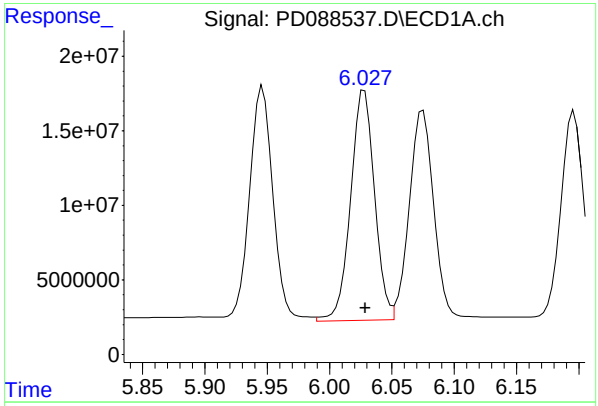
#10 gamma-Chlordane

R.T.: 5.945 min
Delta R.T.: -0.002 min
Response: 198326585
Conc: 54.76 ng/ml m



#10 gamma-Chlordane

R.T.: 5.128 min
Delta R.T.: -0.002 min
Response: 968016592
Conc: 47.69 ng/ml



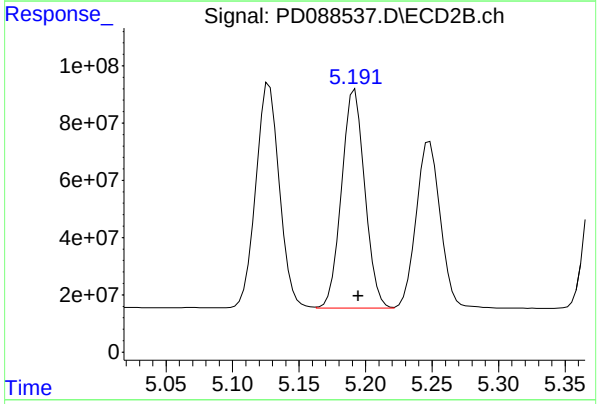
#11 alpha-Chlordane

R.T.: 6.028 min
Delta R.T.: 0.000 min
Response: 205966690
Conc: 57.06 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

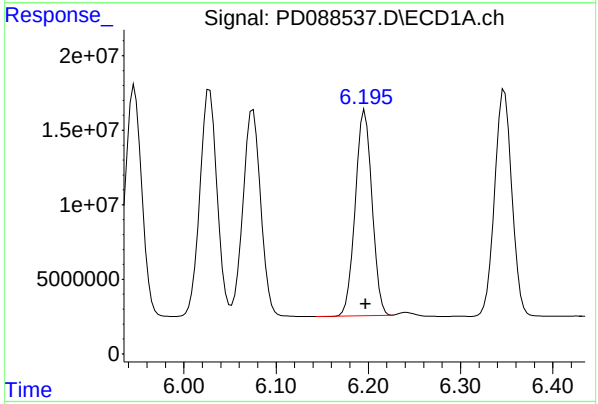
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/14/2025
Supervised By :mohammad ahmed 05/20/2025



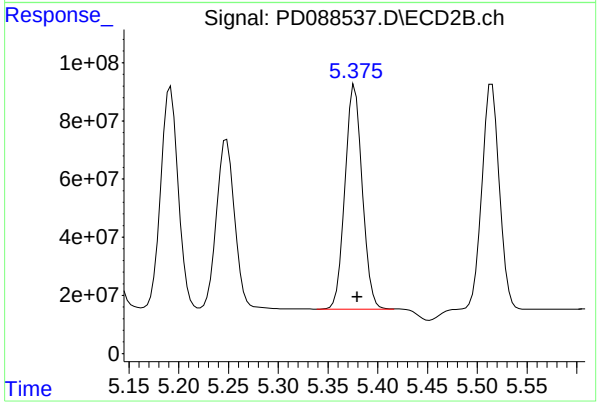
#11 alpha-Chlordane

R.T.: 5.192 min
Delta R.T.: -0.002 min
Response: 928198737
Conc: 47.35 ng/ml



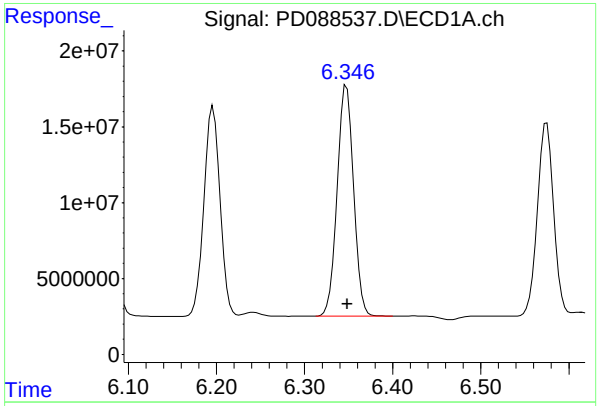
#12 4,4'-DDE

R.T.: 6.196 min
Delta R.T.: 0.000 min
Response: 173685511
Conc: 52.66 ng/ml



#12 4,4'-DDE

R.T.: 5.375 min
Delta R.T.: -0.004 min
Response: 935085254
Conc: 47.48 ng/ml m



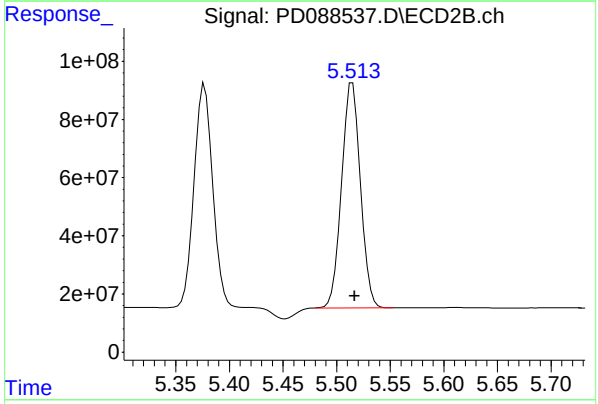
#13 Dieldrin

R.T.: 6.348 min
Delta R.T.: 0.000 min
Response: 197477741
Conc: 55.34 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

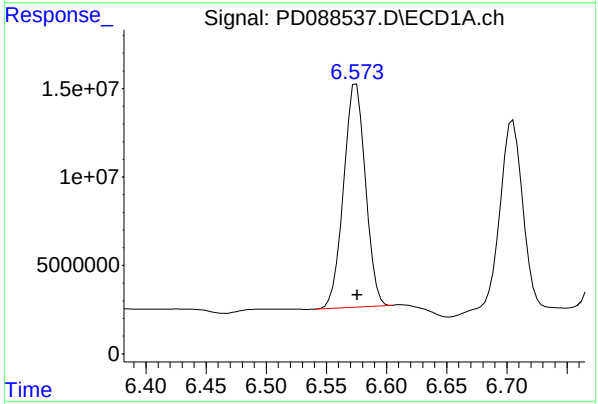
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/14/2025
Supervised By :mohammad ahmed 05/20/2025



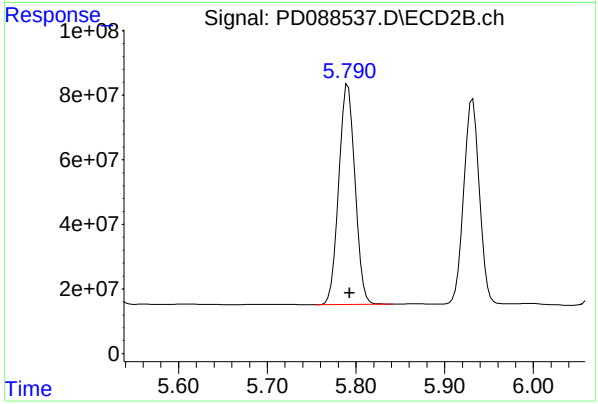
#13 Dieldrin

R.T.: 5.515 min
Delta R.T.: -0.002 min
Response: 947065389
Conc: 47.51 ng/ml



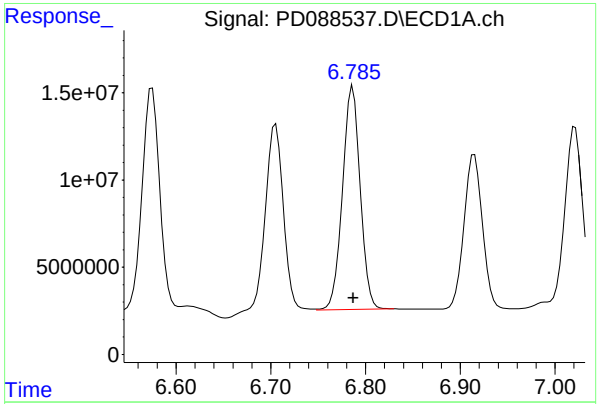
#14 Endrin

R.T.: 6.575 min
Delta R.T.: 0.000 min
Response: 159973121
Conc: 53.64 ng/ml



#14 Endrin

R.T.: 5.791 min
Delta R.T.: -0.002 min
Response: 868447501
Conc: 47.71 ng/ml



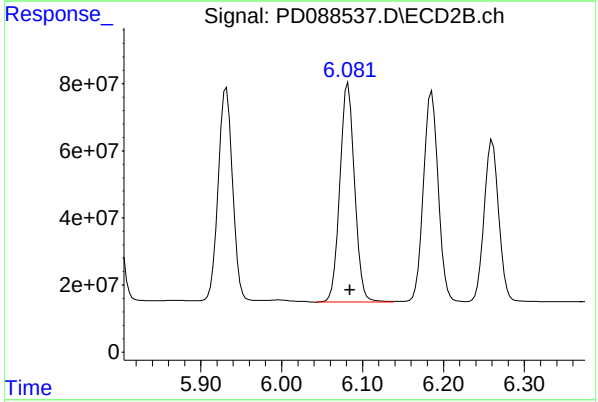
#15 Endosulfan II

R.T.: 6.786 min
Delta R.T.: 0.000 min
Response: 166247341
Conc: 53.18 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

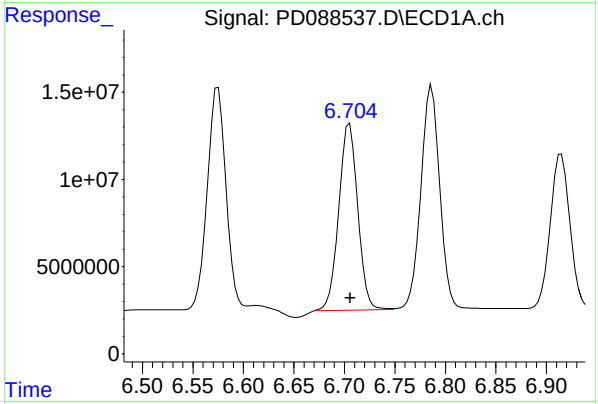
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/14/2025
Supervised By :mohammad ahmed 05/20/2025



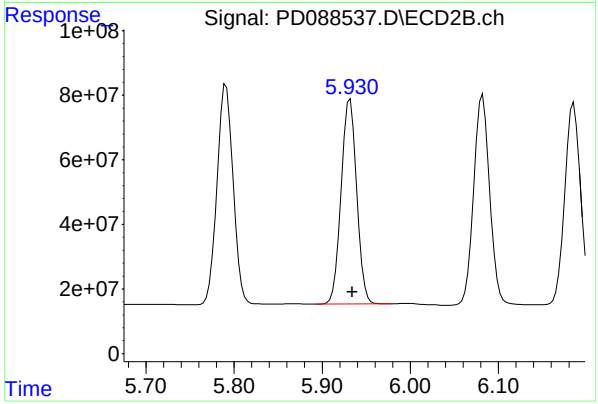
#15 Endosulfan II

R.T.: 6.082 min
Delta R.T.: -0.002 min
Response: 826114342
Conc: 47.15 ng/ml



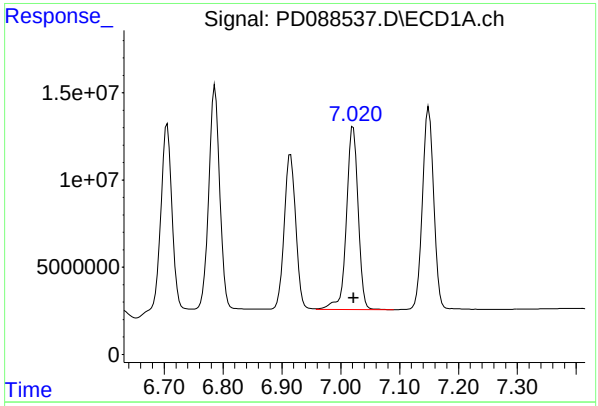
#16 4,4'-DDD

R.T.: 6.705 min
Delta R.T.: 0.000 min
Response: 140253743
Conc: 55.77 ng/ml



#16 4,4'-DDD

R.T.: 5.932 min
Delta R.T.: -0.002 min
Response: 779625528
Conc: 47.58 ng/ml



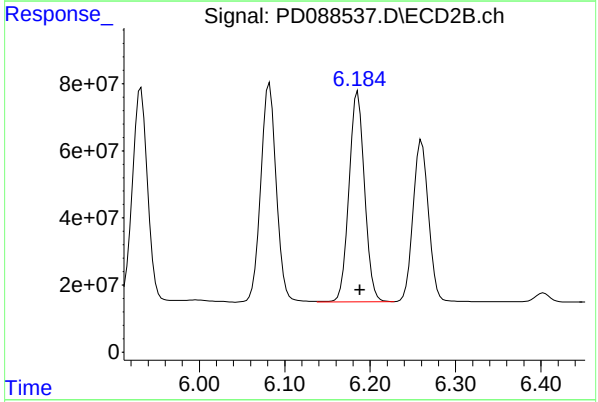
#17 4,4'-DDT

R.T.: 7.021 min
Delta R.T.: 0.000 min
Response: 145305386
Conc: 52.31 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

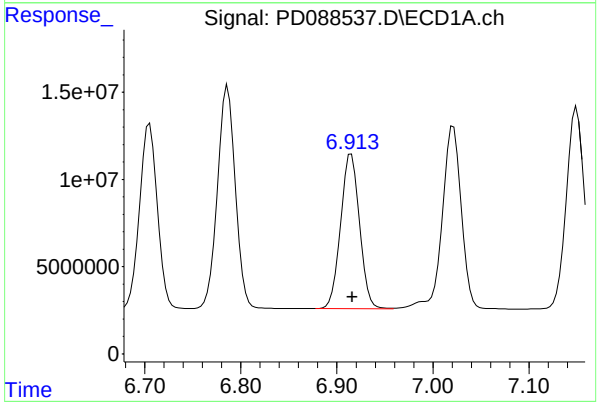
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/14/2025
Supervised By :mohammad ahmed 05/20/2025



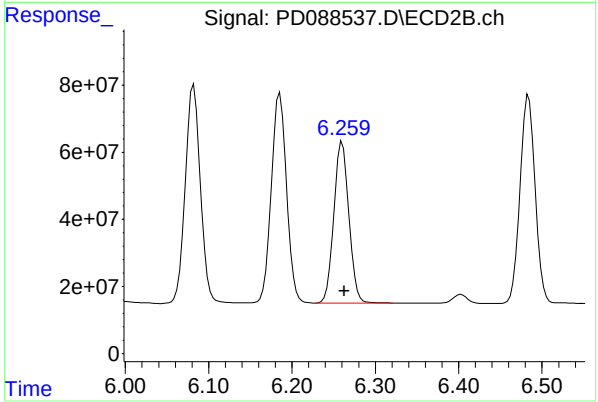
#17 4,4'-DDT

R.T.: 6.186 min
Delta R.T.: -0.002 min
Response: 797283310
Conc: 46.85 ng/ml



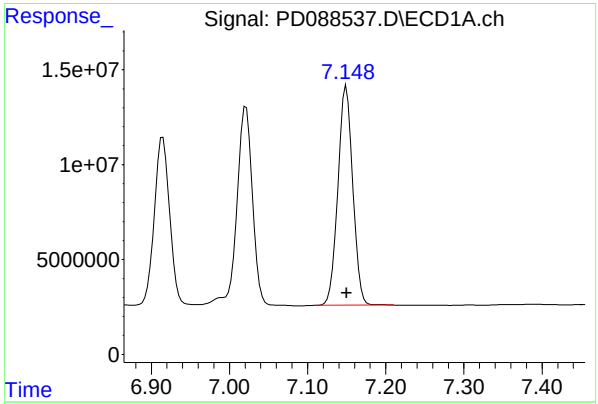
#18 Endrin aldehyde

R.T.: 6.915 min
Delta R.T.: -0.001 min
Response: 120439853
Conc: 52.18 ng/ml



#18 Endrin aldehyde

R.T.: 6.260 min
Delta R.T.: -0.003 min
Response: 603342788
Conc: 45.36 ng/ml



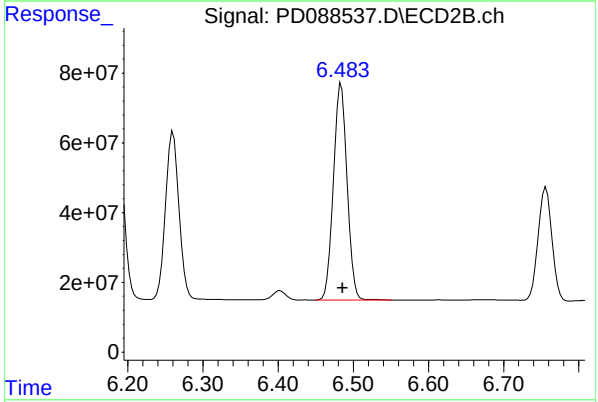
#19 Endosulfan Sulfate

R.T.: 7.150 min
Delta R.T.: 0.000 min
Response: 153016576
Conc: 53.21 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

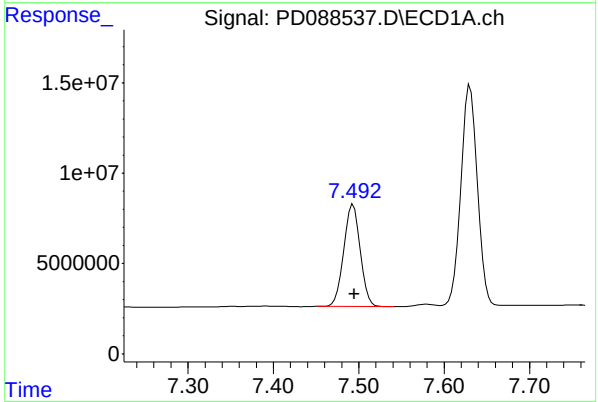
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/14/2025
Supervised By :mohammad ahmed 05/20/2025



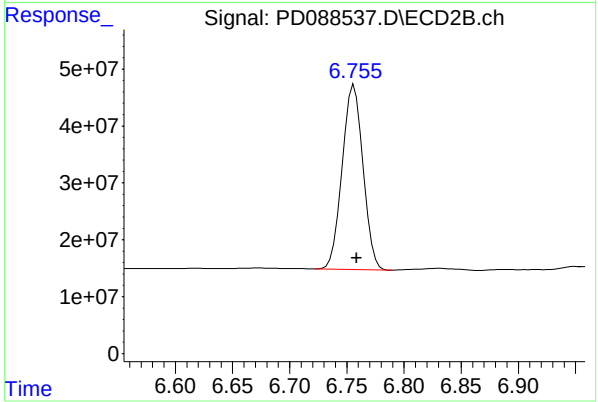
#19 Endosulfan Sulfate

R.T.: 6.484 min
Delta R.T.: -0.002 min
Response: 785198775
Conc: 45.83 ng/ml



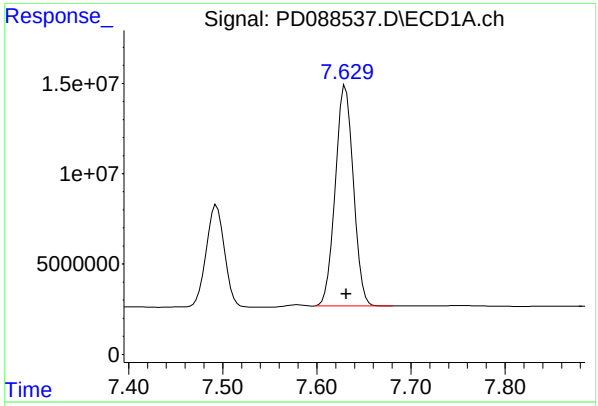
#20 Methoxychlor

R.T.: 7.493 min
Delta R.T.: -0.001 min
Response: 75967499
Conc: 50.66 ng/ml



#20 Methoxychlor

R.T.: 6.756 min
Delta R.T.: -0.002 min
Response: 414161356
Conc: 45.41 ng/ml



#21 Endrin ketone

R.T.: 7.630 min
Delta R.T.: 0.000 min
Response: 163226444
Conc: 52.88 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

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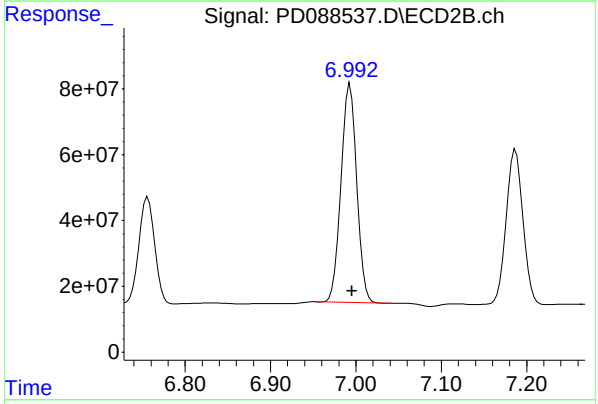
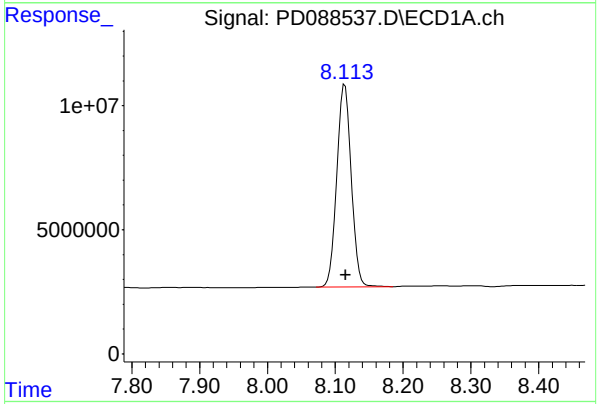
Reviewed By :Abdul Mirza 05/14/2025
Supervised By :mohammad ahmed 05/20/2025



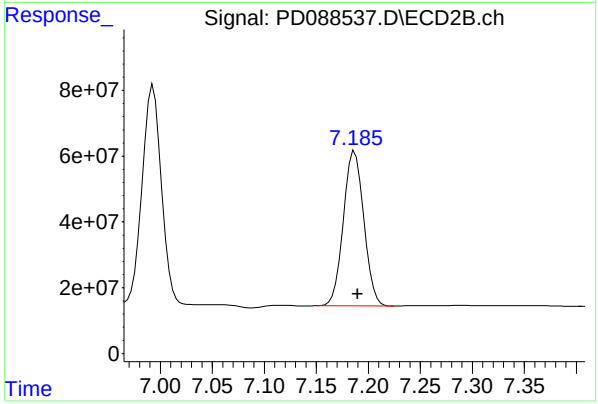
#21 Endrin ketone

R.T.: 6.993 min
Delta R.T.: -0.002 min
Response: 849434805
Conc: 45.41 ng/ml



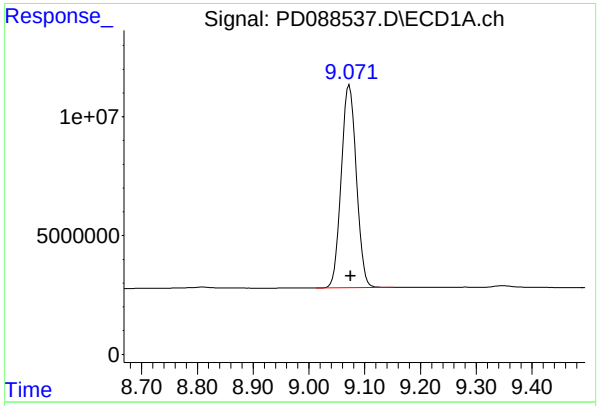
#22 Mirex

R.T.: 8.114 min
Delta R.T.: 0.000 min
Response: 120975733
Conc: 51.52 ng/ml



#22 Mirex

R.T.: 7.187 min
Delta R.T.: -0.003 min
Response: 644497185
Conc: 43.49 ng/ml



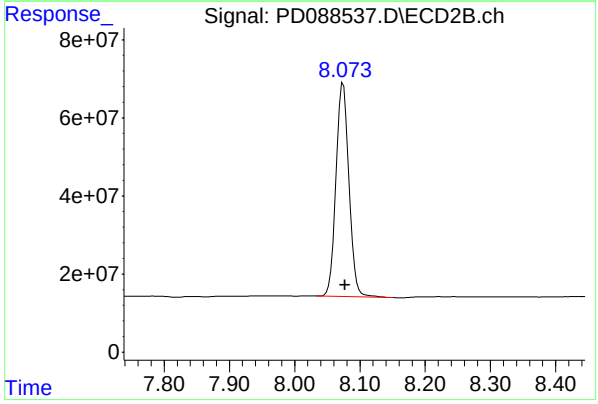
#28 Decachlorobiphenyl

R.T.: 9.072 min
Delta R.T.: -0.002 min
Response: 160532016
Conc: 48.53 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/14/2025
Supervised By :mohammad ahmed 05/20/2025



#28 Decachlorobiphenyl

R.T.: 8.074 min
Delta R.T.: -0.003 min
Response: 756774018
Conc: 40.95 ng/ml

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

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Continuing Calib Date: 05/15/2025 **Initial Calibration Date(s):** 04/18/2025 04/18/2025

Continuing Calib Time: 09:32 **Initial Calibration Time(s):** 13:56 14:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.08	9.08	8.98	9.18	0.00
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
alpha-BHC	4.00	4.00	3.90	4.10	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	4.33	4.23	4.43	0.00
Heptachlor	4.93	4.93	4.83	5.03	0.00
Aldrin	5.27	5.27	5.17	5.37	0.00
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.00
Endosulfan I	6.08	6.08	5.98	6.18	0.00
Dieldrin	6.35	6.35	6.25	6.45	0.00
4,4'-DDE	6.20	6.20	6.10	6.30	0.00
Endrin	6.58	6.58	6.48	6.68	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	7.15	7.15	7.05	7.25	0.00
4,4'-DDT	7.02	7.02	6.92	7.12	0.00
Methoxychlor	7.50	7.50	7.40	7.60	0.01
Endrin ketone	7.63	7.63	7.53	7.73	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.00
alpha-Chlordane	6.03	6.03	5.93	6.13	0.00
gamma-Chlordane	5.95	5.95	5.85	6.05	0.00

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

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Continuing Calib Date: 05/15/2025 **Initial Calibration Date(s):** 04/18/2025 04/18/2025

Continuing Calib Time: 09:32 **Initial Calibration Time(s):** 13:56 14:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.08	8.08	7.98	8.18	0.01
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
alpha-BHC	3.40	3.40	3.30	3.50	0.01
beta-BHC	4.03	4.03	3.93	4.13	0.00
delta-BHC	4.26	4.27	4.17	4.37	0.01
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.09	4.09	3.99	4.19	0.00
Aldrin	4.37	4.37	4.27	4.47	0.00
Heptachlor epoxide	4.88	4.88	4.78	4.98	0.00
Endosulfan I	5.25	5.25	5.15	5.35	0.00
Dieldrin	5.52	5.52	5.42	5.62	0.01
4,4'-DDE	5.38	5.38	5.28	5.48	0.00
Endrin	5.79	5.79	5.69	5.89	0.00
Endosulfan II	6.08	6.08	5.98	6.18	0.00
4,4'-DDD	5.93	5.93	5.83	6.03	0.00
Endosulfan sulfate	6.49	6.49	6.39	6.59	0.00
4,4'-DDT	6.19	6.19	6.09	6.29	0.00
Methoxychlor	6.76	6.76	6.66	6.86	0.00
Endrin ketone	6.99	7.00	6.90	7.10	0.01
Endrin aldehyde	6.26	6.26	6.16	6.36	0.00
alpha-Chlordane	5.19	5.19	5.09	5.29	0.00
gamma-Chlordane	5.13	5.13	5.03	5.23	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No.: CCAL03 **Date Analyzed:** 05/15/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088553.D **Time Analyzed:** 09:32

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.708	6.606	6.806	56.100	50.000	12.2
4,4'-DDE	6.198	6.097	6.297	53.970	50.000	7.9
4,4'-DDT	7.023	6.922	7.122	53.870	50.000	7.7
Aldrin	5.274	5.173	5.373	56.550	50.000	13.1
alpha-BHC	4.001	3.901	4.101	56.800	50.000	13.6
alpha-Chlordane	6.030	5.929	6.129	56.180	50.000	12.4
beta-BHC	4.517	4.416	4.616	55.040	50.000	10.1
Decachlorobiphenyl	9.077	8.975	9.175	49.760	50.000	-0.5
delta-BHC	4.766	4.665	4.865	55.930	50.000	11.9
Dieldrin	6.350	6.249	6.449	56.050	50.000	12.1
Endosulfan I	6.077	5.976	6.176	55.920	50.000	11.8
Endosulfan II	6.788	6.687	6.887	54.320	50.000	8.6
Endosulfan sulfate	7.152	7.050	7.250	54.310	50.000	8.6
Endrin	6.577	6.476	6.676	53.380	50.000	6.8
Endrin aldehyde	6.917	6.816	7.016	53.450	50.000	6.9
Endrin ketone	7.633	7.531	7.731	54.580	50.000	9.2
gamma-BHC (Lindane)	4.332	4.232	4.432	55.710	50.000	11.4
gamma-Chlordane	5.949	5.847	6.047	56.700	50.000	13.4
Heptachlor	4.932	4.831	5.031	56.990	50.000	14.0
Heptachlor epoxide	5.693	5.592	5.792	55.460	50.000	10.9
Methoxychlor	7.495	7.395	7.595	51.810	50.000	3.6
Tetrachloro-m-xylene	3.552	3.452	3.652	54.060	50.000	8.1

Alliance TECHNICAL GROUP

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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No.: CCAL03 **Date Analyzed:** 05/15/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088553.D **Time Analyzed:** 09:32

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.932	5.834	6.034	48.680	50.000	-2.6
4,4'-DDE	5.378	5.280	5.480	48.920	50.000	-2.2
4,4'-DDT	6.186	6.088	6.288	47.730	50.000	-4.5
Aldrin	4.371	4.273	4.473	49.570	50.000	-0.9
alpha-BHC	3.395	3.296	3.496	49.270	50.000	-1.5
alpha-Chlordane	5.193	5.094	5.294	48.190	50.000	-3.6
beta-BHC	4.027	3.928	4.128	48.880	50.000	-2.2
Decachlorobiphenyl	8.075	7.977	8.177	43.850	50.000	-12.3
delta-BHC	4.264	4.165	4.365	49.000	50.000	-2.0
Dieldrin	5.515	5.417	5.617	48.480	50.000	-3.0
Endosulfan I	5.249	5.151	5.351	47.220	50.000	-5.6
Endosulfan II	6.083	5.984	6.184	47.670	50.000	-4.7
Endosulfan sulfate	6.485	6.386	6.586	47.060	50.000	-5.9
Endrin	5.792	5.693	5.893	46.640	50.000	-6.7
Endrin aldehyde	6.261	6.163	6.363	46.820	50.000	-6.4
Endrin ketone	6.994	6.895	7.095	47.950	50.000	-4.1
gamma-BHC (Lindane)	3.731	3.633	3.833	48.430	50.000	-3.1
gamma-Chlordane	5.128	5.030	5.230	48.350	50.000	-3.3
Heptachlor	4.085	3.986	4.186	48.250	50.000	-3.5
Heptachlor epoxide	4.875	4.777	4.977	48.440	50.000	-3.1
Methoxychlor	6.757	6.659	6.859	45.800	50.000	-8.4
Tetrachloro-m-xylene	2.882	2.783	2.983	48.870	50.000	-2.3

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088553.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 09:32
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:16:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.552	2.882	108.0E6	714.6E6	54.056	48.873
28)	SA Decachlor...	9.077	8.075	164.6E6	810.3E6	49.760	43.847
	Target Compounds						
2)	A alpha-BHC	4.001	3.395	244.9E6	1126.4E6	56.804	49.269
3)	MA gamma-BHC...	4.332	3.731	233.3E6	1043.2E6	55.707	48.433
4)	MA Heptachlor	4.932	4.085	230.2E6	1032.4E6	56.989	48.246
5)	MB Aldrin	5.274	4.371	223.3E6	1031.1E6	56.547	49.567
6)	B beta-BHC	4.517	4.027	89350716	452.4E6	55.040	48.884
7)	B delta-BHC	4.766	4.264	230.7E6	1041.9E6	55.934	49.004
8)	B Heptachlo...	5.693	4.875	198.2E6	915.2E6	55.456	48.438
9)	A Endosulfan I	6.077	5.249	188.8E6	850.5E6	55.918	47.217
10)	B gamma-Chl...	5.949	5.128	205.4E6	981.3E6	56.698	48.348
11)	B alpha-Chl...	6.030	5.193	202.8E6	944.6E6	56.185	48.186
12)	B 4,4'-DDE	6.198	5.378	178.0E6	963.5E6	53.965	48.923
13)	MA Dieldrin	6.350	5.515	200.0E6	966.3E6	56.052	48.476
14)	MA Endrin	6.577	5.792	159.2E6	849.0E6	53.375	46.640
15)	B Endosulfa...	6.788	6.083	169.8E6	835.3E6	54.325	47.674
16)	A 4,4'-DDD	6.708	5.932	141.1E6	797.7E6	56.105	48.683
17)	MA 4,4'-DDT	7.023	6.186	149.6E6	812.2E6	53.866	47.730
18)	B Endrin al...	6.917	6.261	123.4E6	622.7E6	53.449	46.820
19)	B Endosulfa...	7.152	6.485	156.2E6	806.3E6	54.310	47.062
20)	A Methoxychlor	7.495	6.757	77695098	417.7E6	51.812	45.800
21)	B Endrin ke...	7.633	6.994	168.5E6	896.9E6	54.580	47.951
22)	Mirex	8.117	7.188	123.4E6	682.3E6	52.558	46.038

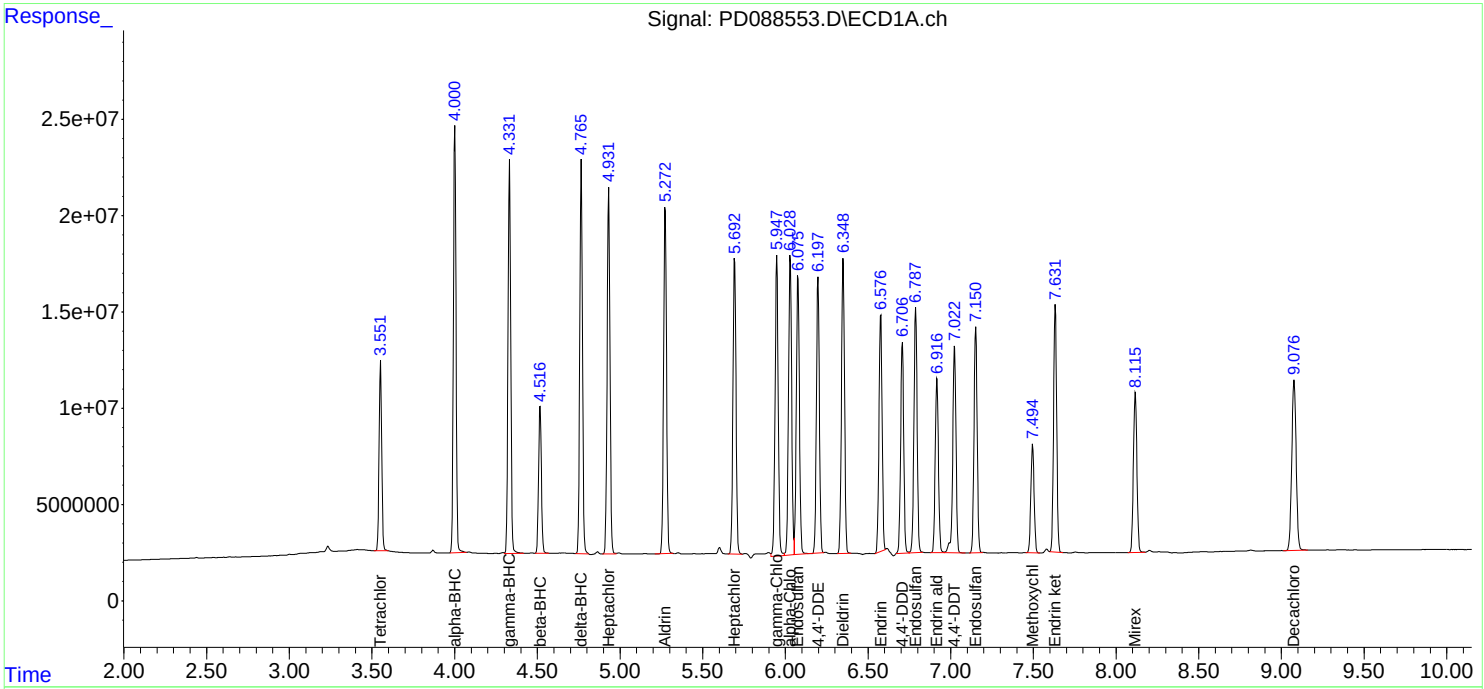
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

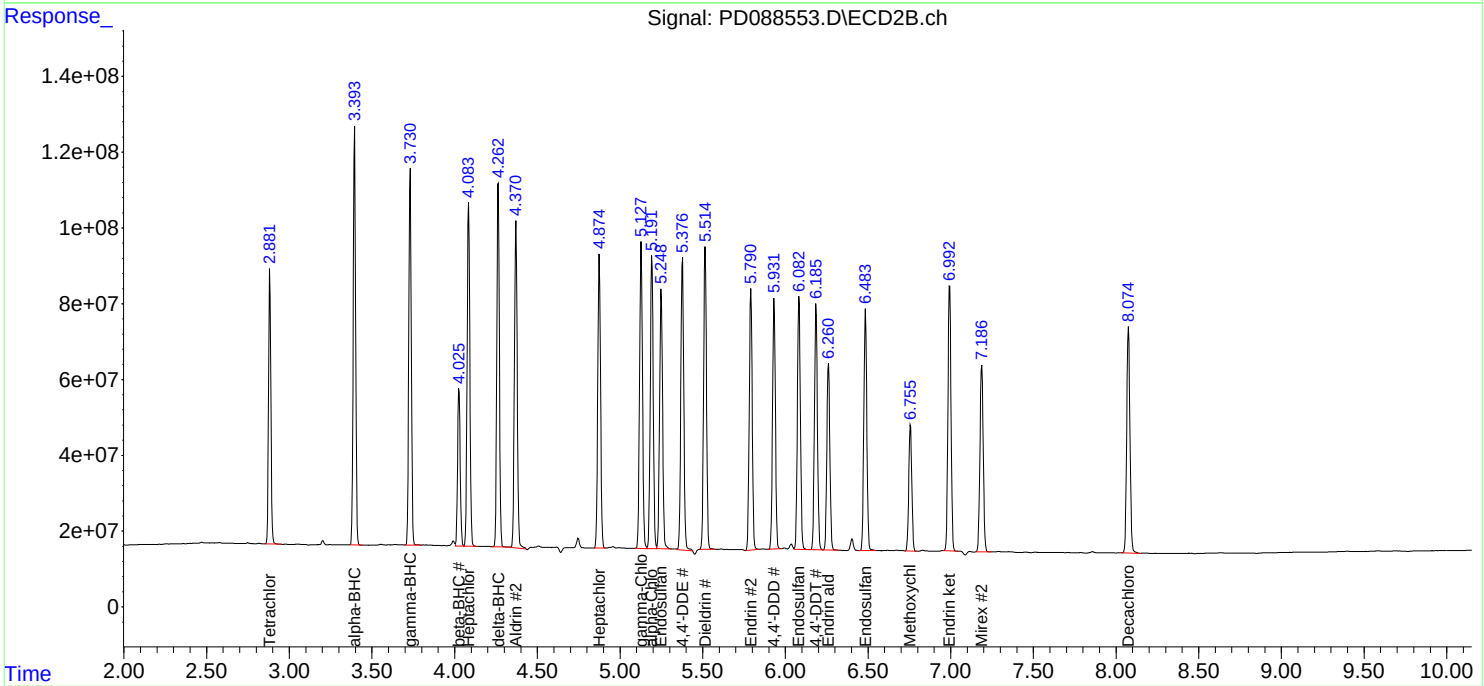
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088553.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 09:32
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

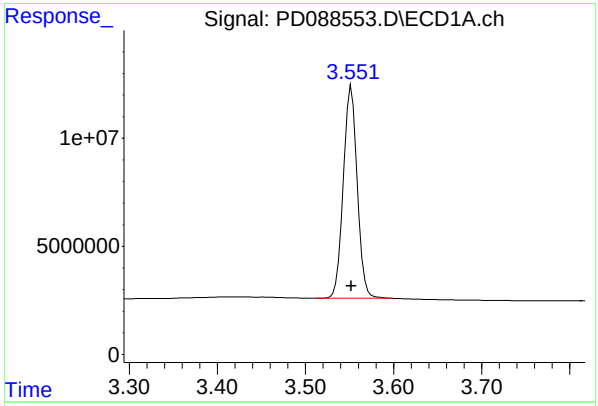
Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:16:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



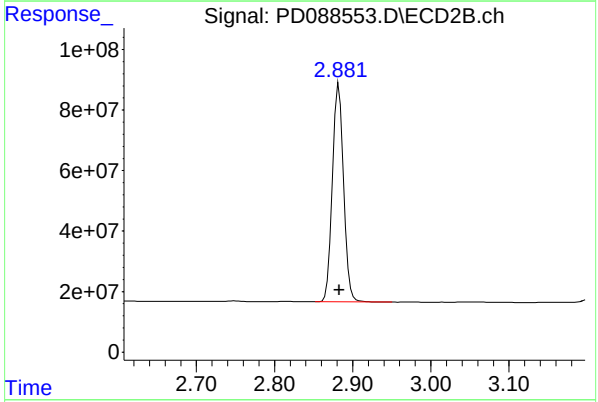




#1 Tetrachloro-m-xylene

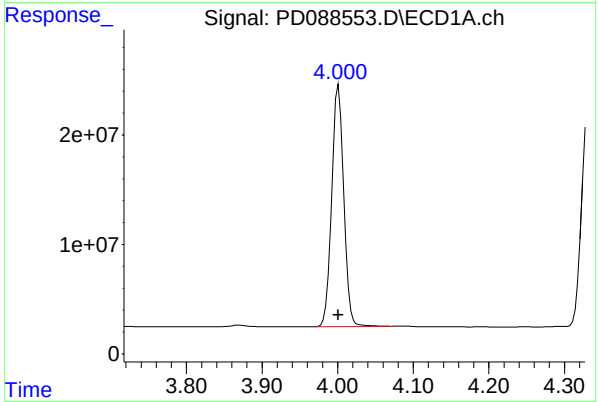
R.T.: 3.552 min
Delta R.T.: 0.000 min
Response: 107970628
Conc: 54.06 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



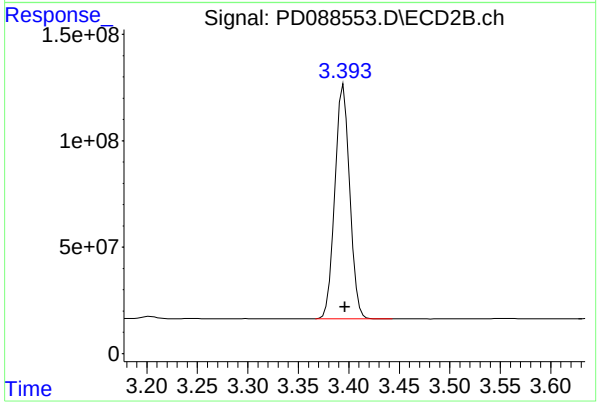
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 714605076
Conc: 48.87 ng/ml



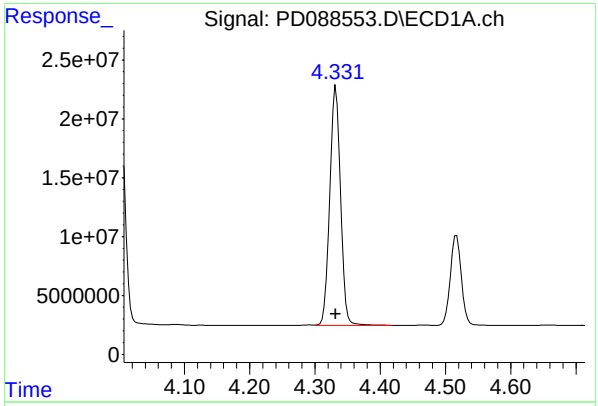
#2 alpha-BHC

R.T.: 4.001 min
Delta R.T.: 0.000 min
Response: 244938933
Conc: 56.80 ng/ml



#2 alpha-BHC

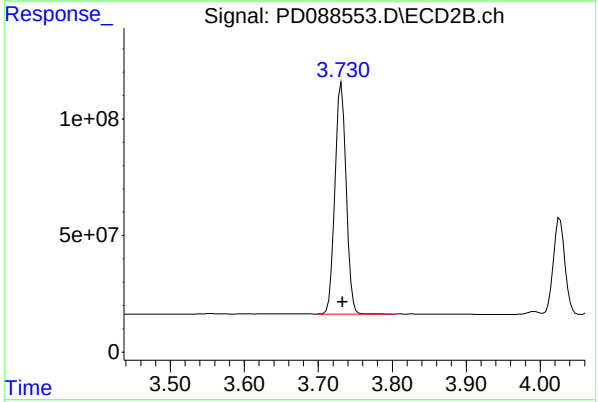
R.T.: 3.395 min
Delta R.T.: -0.001 min
Response: 1126361454
Conc: 49.27 ng/ml



#3 gamma-BHC (Lindane)

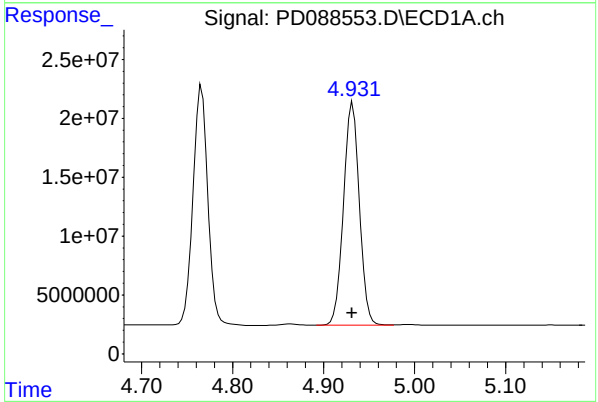
R.T.: 4.332 min
Delta R.T.: 0.000 min
Response: 233272455
Conc: 55.71 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



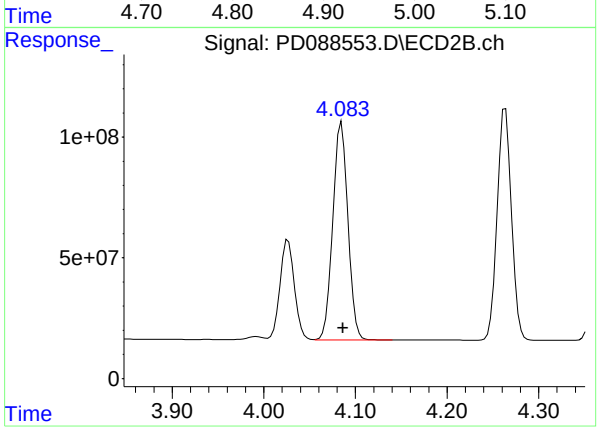
#3 gamma-BHC (Lindane)

R.T.: 3.731 min
Delta R.T.: -0.002 min
Response: 1043179561
Conc: 48.43 ng/ml



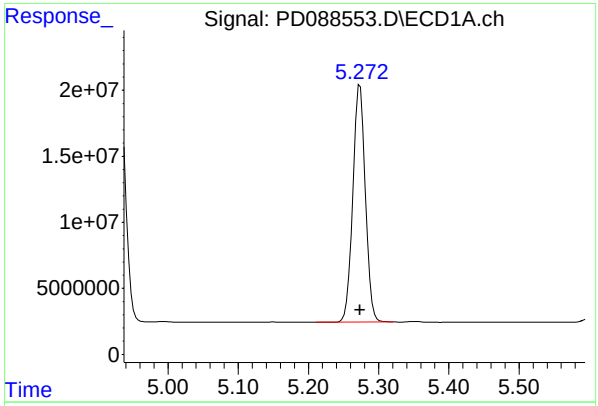
#4 Heptachlor

R.T.: 4.932 min
Delta R.T.: 0.000 min
Response: 230174418
Conc: 56.99 ng/ml



#4 Heptachlor

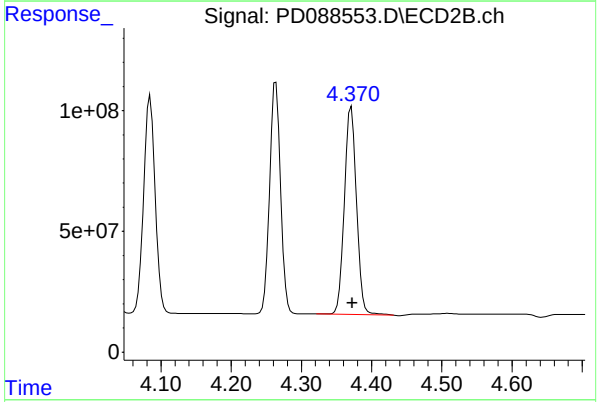
R.T.: 4.085 min
Delta R.T.: -0.002 min
Response: 1032378844
Conc: 48.25 ng/ml



#5 Aldrin

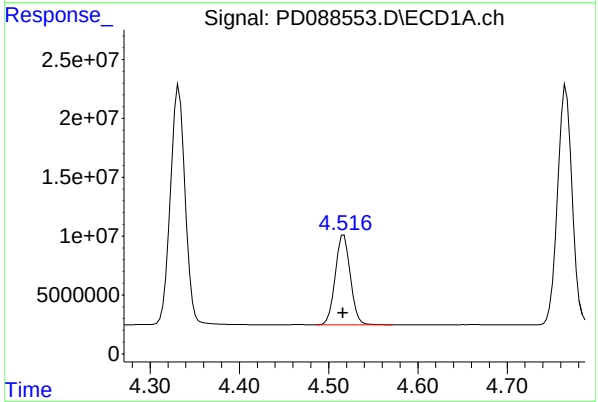
R.T.: 5.274 min
Delta R.T.: 0.000 min
Response: 223336225
Conc: 56.55 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



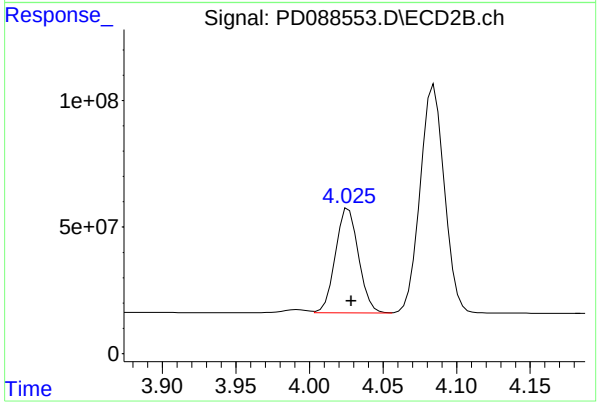
#5 Aldrin

R.T.: 4.371 min
Delta R.T.: -0.002 min
Response: 1031126383
Conc: 49.57 ng/ml



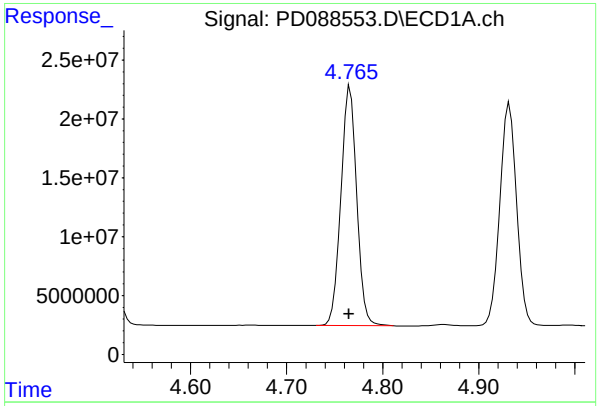
#6 beta-BHC

R.T.: 4.517 min
Delta R.T.: 0.000 min
Response: 89350716
Conc: 55.04 ng/ml



#6 beta-BHC

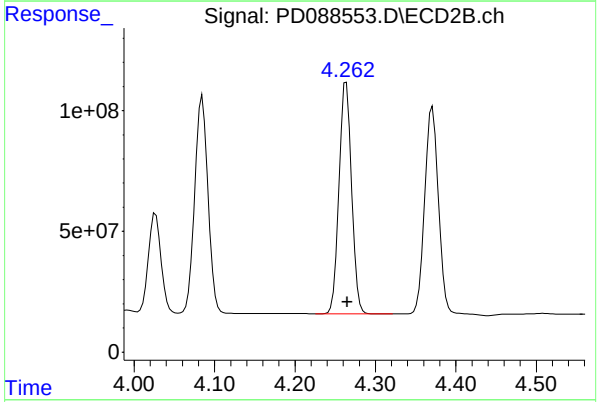
R.T.: 4.027 min
Delta R.T.: -0.002 min
Response: 452380717
Conc: 48.88 ng/ml



#7 delta-BHC

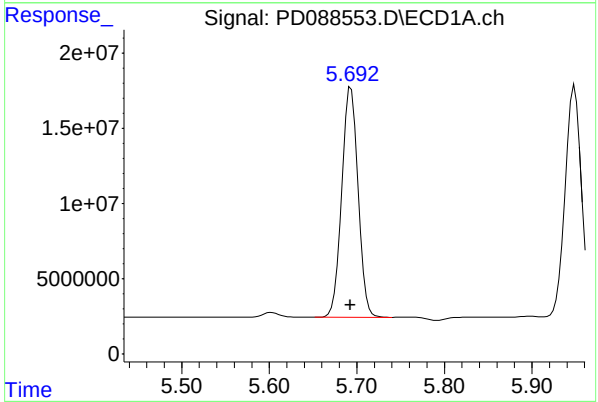
R.T.: 4.766 min
Delta R.T.: 0.000 min
Response: 230728132
Conc: 55.93 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



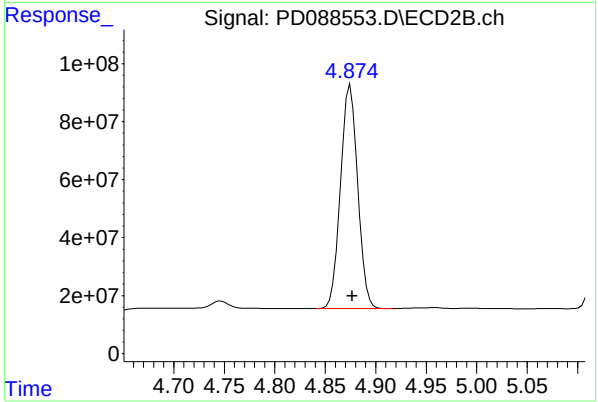
#7 delta-BHC

R.T.: 4.264 min
Delta R.T.: -0.002 min
Response: 1041898588
Conc: 49.00 ng/ml



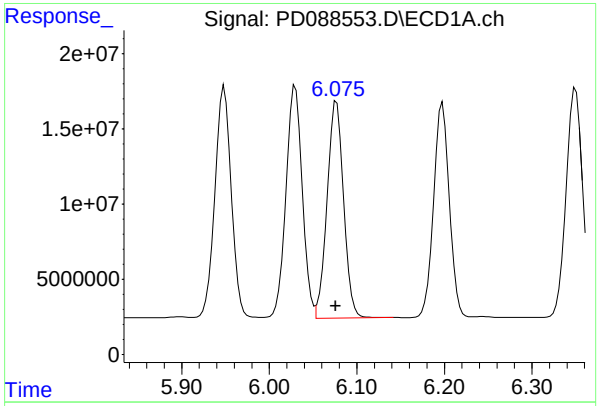
#8 Heptachlor epoxide

R.T.: 5.693 min
Delta R.T.: 0.000 min
Response: 198197118
Conc: 55.46 ng/ml



#8 Heptachlor epoxide

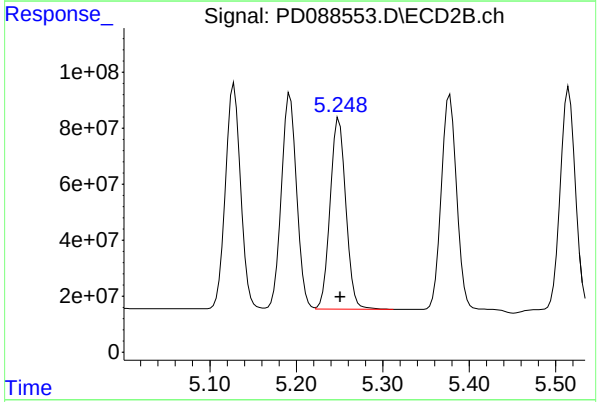
R.T.: 4.875 min
Delta R.T.: -0.002 min
Response: 915195909
Conc: 48.44 ng/ml



#9 Endosulfan I

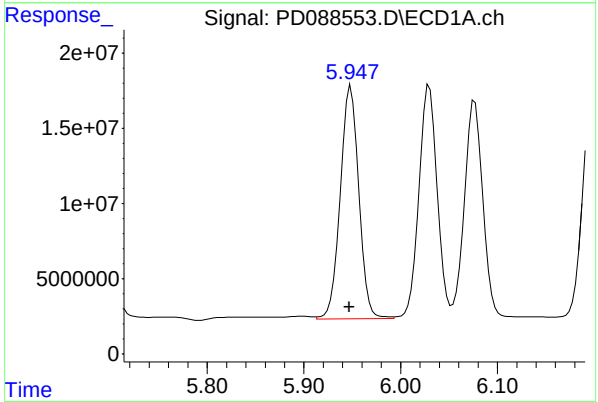
R.T.: 6.077 min
Delta R.T.: 0.000 min
Response: 188842724
Conc: 55.92 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



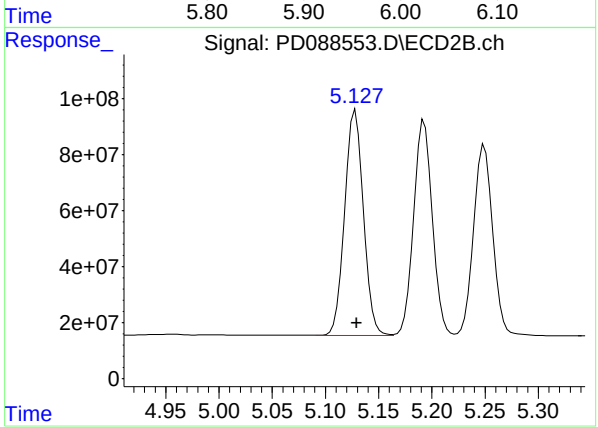
#9 Endosulfan I

R.T.: 5.249 min
Delta R.T.: -0.002 min
Response: 850502703
Conc: 47.22 ng/ml



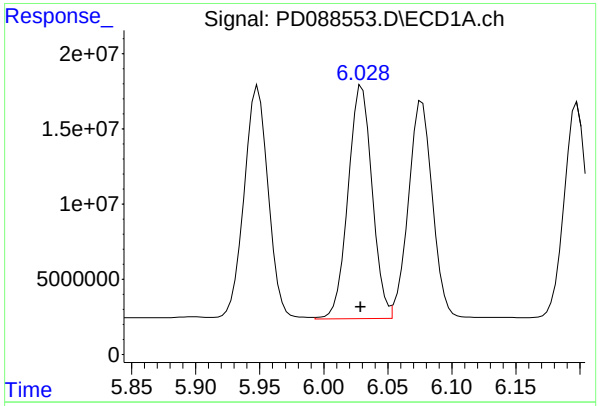
#10 gamma-Chlordane

R.T.: 5.949 min
Delta R.T.: 0.002 min
Response: 205364082
Conc: 56.70 ng/ml



#10 gamma-Chlordane

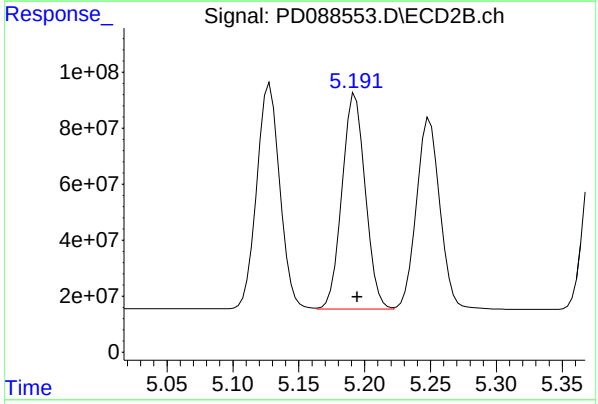
R.T.: 5.128 min
Delta R.T.: -0.001 min
Response: 981264645
Conc: 48.35 ng/ml



#11 alpha-Chlordane

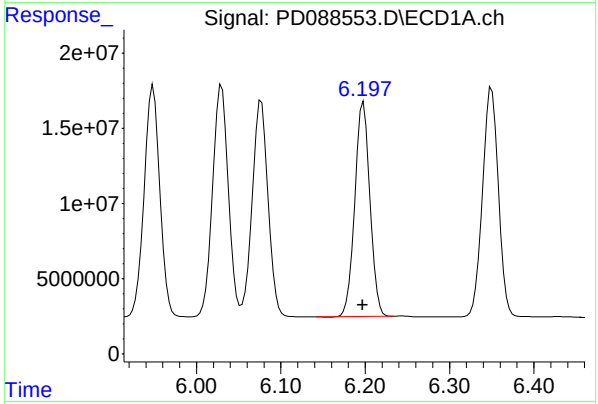
R.T.: 6.030 min
Delta R.T.: 0.001 min
Response: 202802542
Conc: 56.18 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



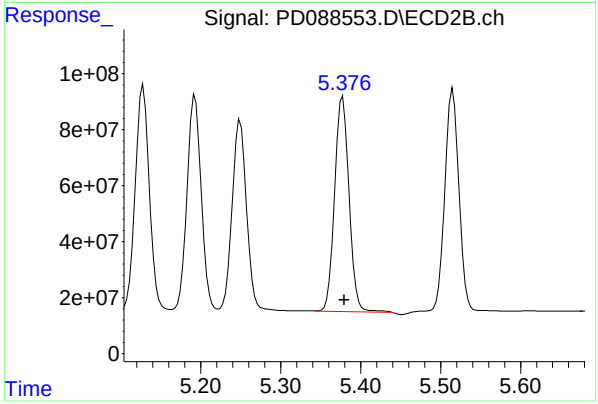
#11 alpha-Chlordane

R.T.: 5.193 min
Delta R.T.: -0.002 min
Response: 944584915
Conc: 48.19 ng/ml



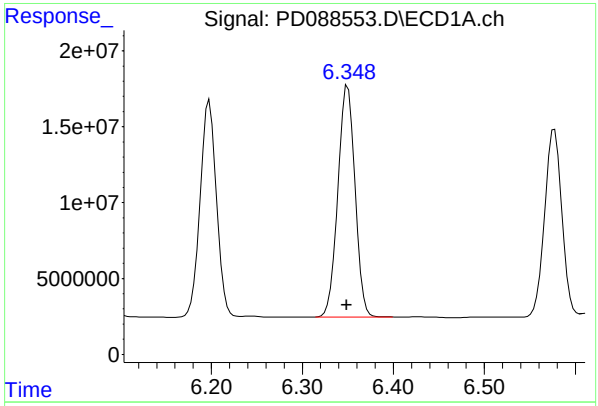
#12 4,4'-DDE

R.T.: 6.198 min
Delta R.T.: 0.000 min
Response: 177990319
Conc: 53.97 ng/ml



#12 4,4'-DDE

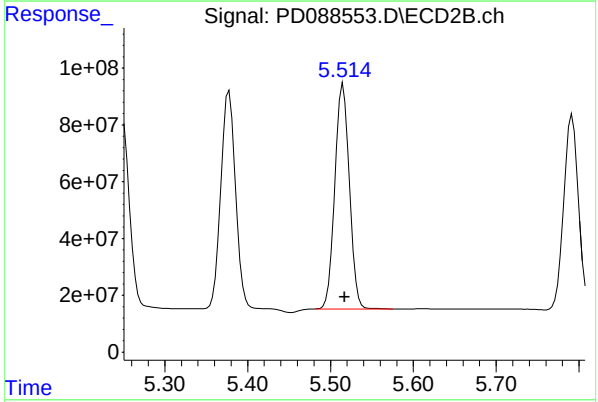
R.T.: 5.378 min
Delta R.T.: -0.002 min
Response: 963488910
Conc: 48.92 ng/ml



#13 Dieldrin

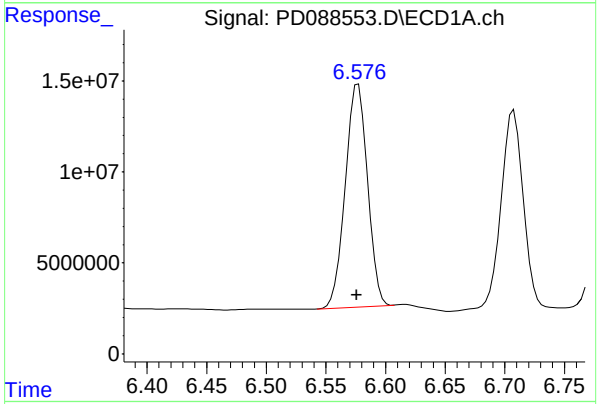
R.T.: 6.350 min
Delta R.T.: 0.001 min
Response: 200021035
Conc: 56.05 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



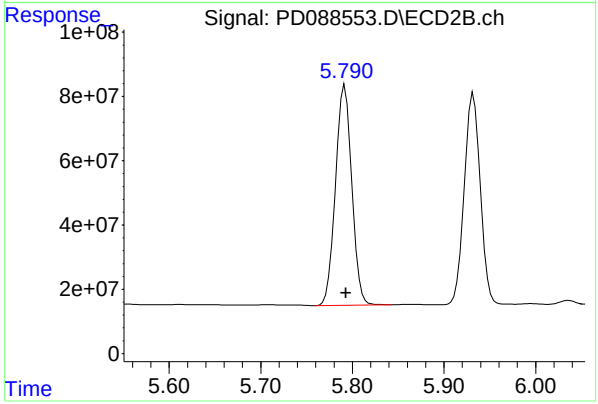
#13 Dieldrin

R.T.: 5.515 min
Delta R.T.: -0.002 min
Response: 966273435
Conc: 48.48 ng/ml



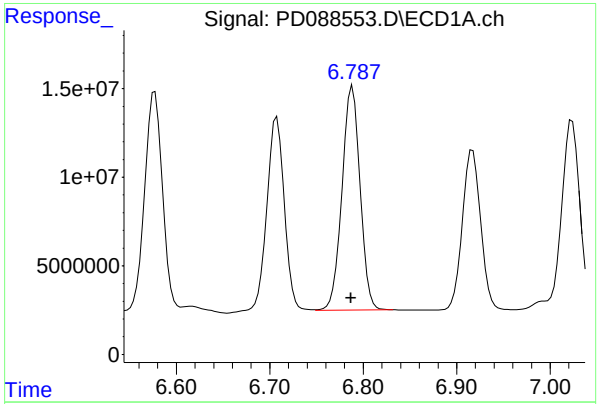
#14 Endrin

R.T.: 6.577 min
Delta R.T.: 0.001 min
Response: 159194943
Conc: 53.38 ng/ml



#14 Endrin

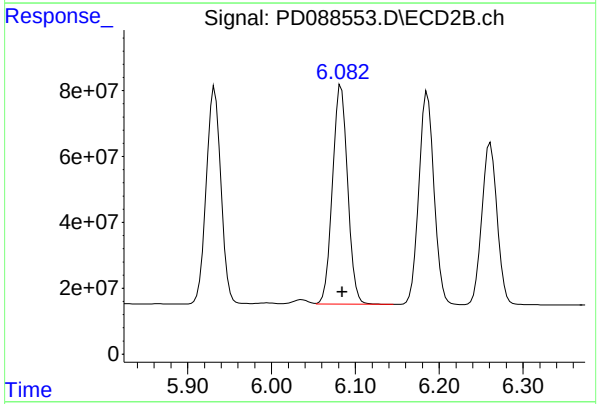
R.T.: 5.792 min
Delta R.T.: -0.001 min
Response: 848954743
Conc: 46.64 ng/ml



#15 Endosulfan II

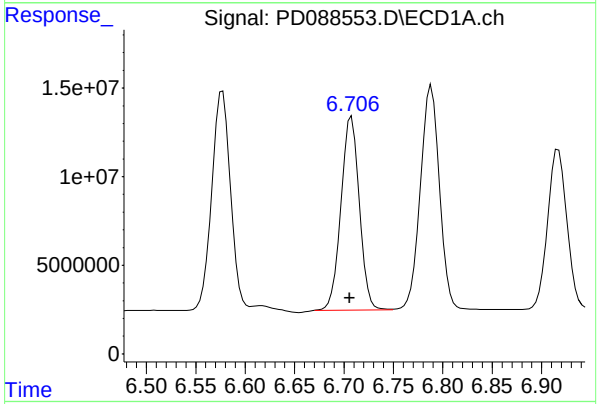
R.T.: 6.788 min
Delta R.T.: 0.001 min
Response: 169831062
Conc: 54.32 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



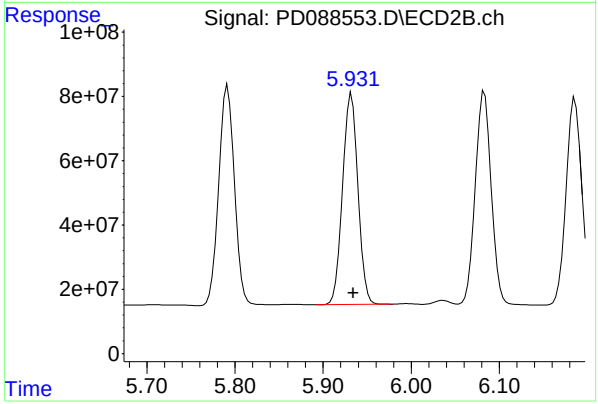
#15 Endosulfan II

R.T.: 6.083 min
Delta R.T.: -0.001 min
Response: 835319062
Conc: 47.67 ng/ml



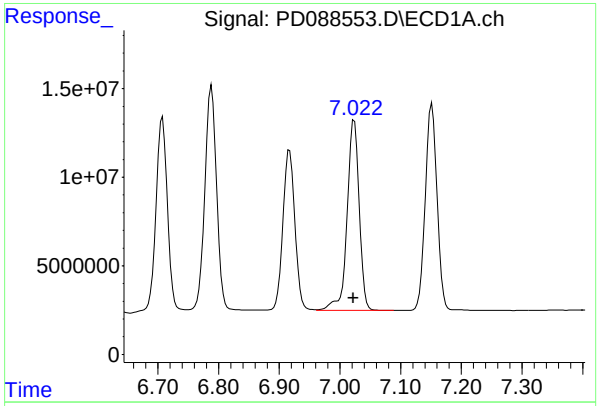
#16 4,4'-DDD

R.T.: 6.708 min
Delta R.T.: 0.002 min
Response: 141101178
Conc: 56.10 ng/ml



#16 4,4'-DDD

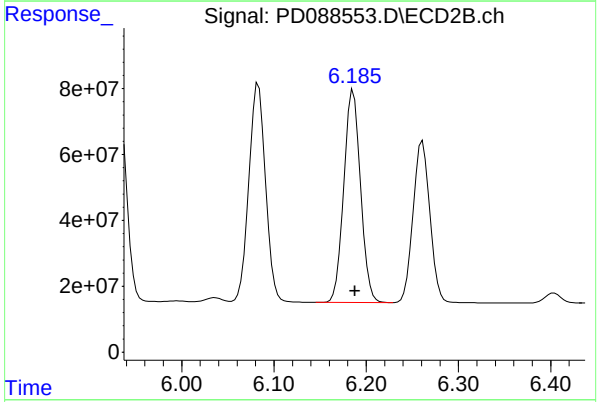
R.T.: 5.932 min
Delta R.T.: -0.002 min
Response: 797723765
Conc: 48.68 ng/ml



#17 4,4'-DDT

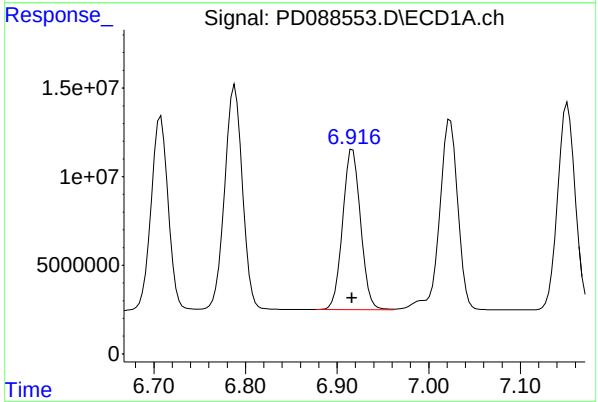
R.T.: 7.023 min
Delta R.T.: 0.001 min
Response: 149615590
Conc: 53.87 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



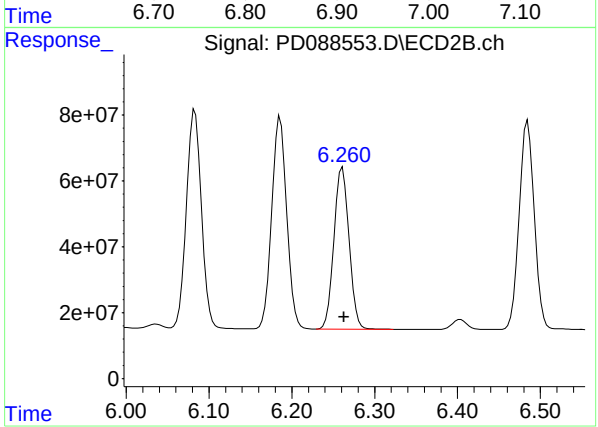
#17 4,4'-DDT

R.T.: 6.186 min
Delta R.T.: -0.002 min
Response: 812191584
Conc: 47.73 ng/ml



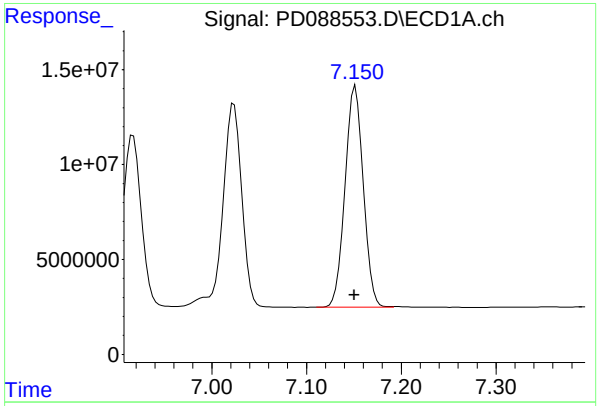
#18 Endrin aldehyde

R.T.: 6.917 min
Delta R.T.: 0.000 min
Response: 123360342
Conc: 53.45 ng/ml



#18 Endrin aldehyde

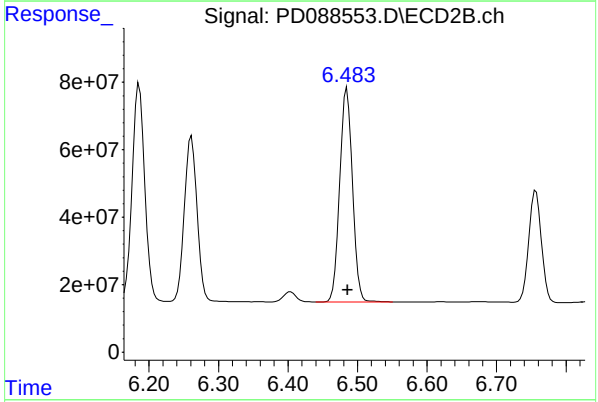
R.T.: 6.261 min
Delta R.T.: -0.002 min
Response: 622748427
Conc: 46.82 ng/ml



#19 Endosulfan Sulfate

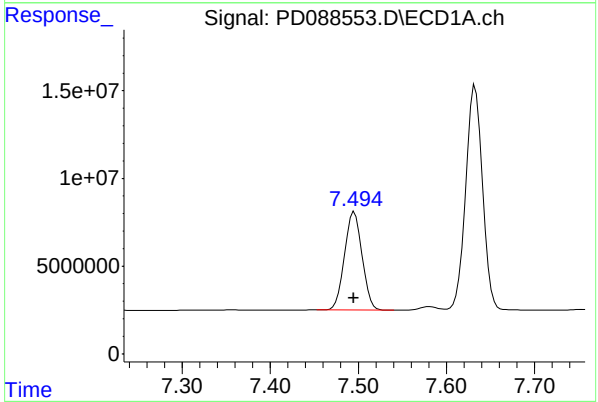
R.T.: 7.152 min
Delta R.T.: 0.001 min
Response: 156186773
Conc: 54.31 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



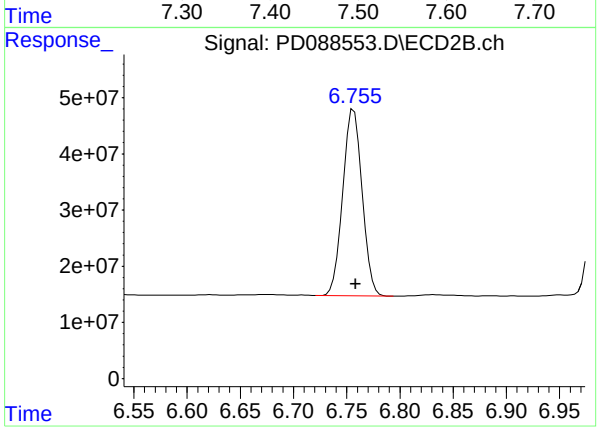
#19 Endosulfan Sulfate

R.T.: 6.485 min
Delta R.T.: -0.001 min
Response: 806329365
Conc: 47.06 ng/ml



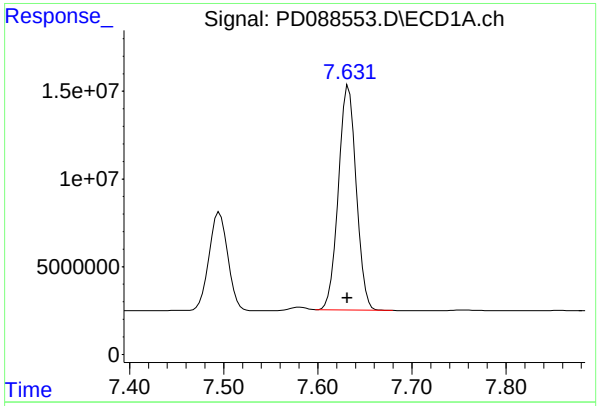
#20 Methoxychlor

R.T.: 7.495 min
Delta R.T.: 0.000 min
Response: 77695098
Conc: 51.81 ng/ml



#20 Methoxychlor

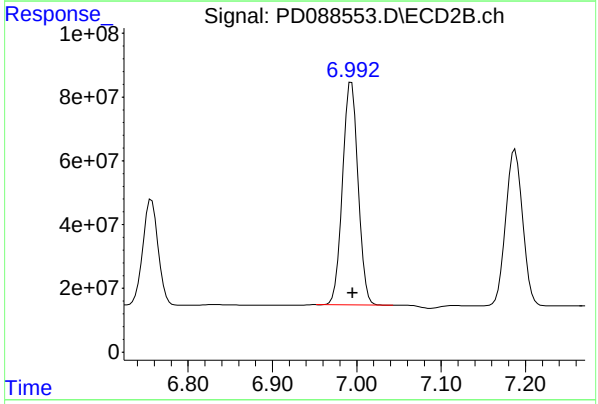
R.T.: 6.757 min
Delta R.T.: -0.002 min
Response: 417744084
Conc: 45.80 ng/ml



#21 Endrin ketone

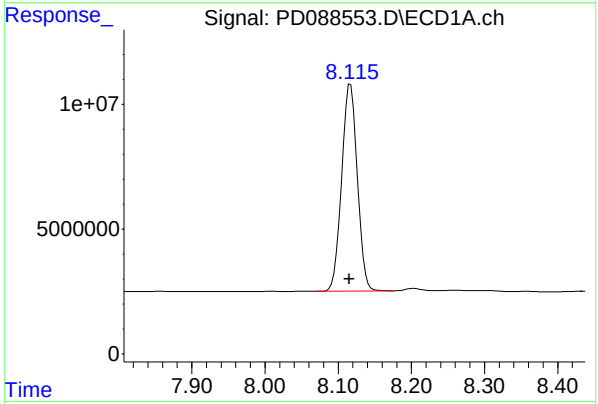
R.T.: 7.633 min
Delta R.T.: 0.001 min
Response: 168466894
Conc: 54.58 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



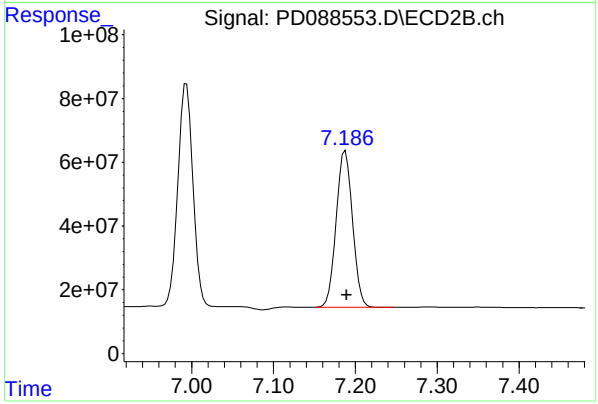
#21 Endrin ketone

R.T.: 6.994 min
Delta R.T.: -0.001 min
Response: 896873227
Conc: 47.95 ng/ml



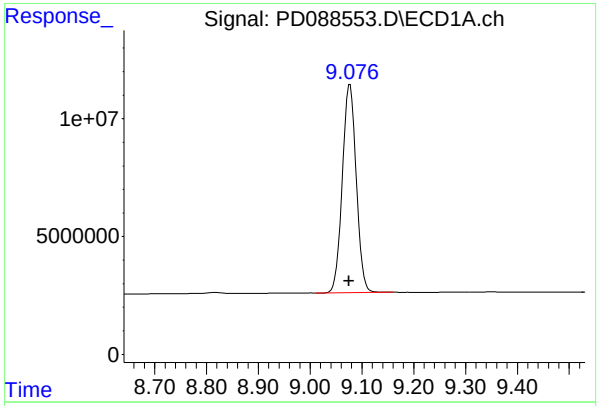
#22 Mirex

R.T.: 8.117 min
Delta R.T.: 0.002 min
Response: 123424199
Conc: 52.56 ng/ml



#22 Mirex

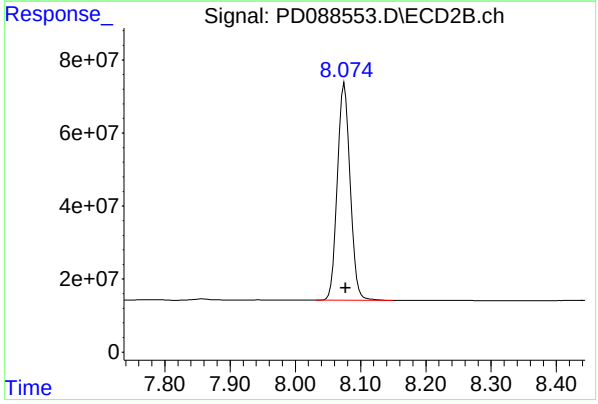
R.T.: 7.188 min
Delta R.T.: -0.002 min
Response: 682324973
Conc: 46.04 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.077 min
Delta R.T.: 0.002 mi
Response: 164610058
Conc: 49.76 ng/m

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.002 min
Response: 810267628
Conc: 43.85 ng/ml

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

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Continuing Calib Date: 05/15/2025 **Initial Calibration Date(s):** 04/18/2025 04/18/2025

Continuing Calib Time: 15:11 **Initial Calibration Time(s):** 13:56 14:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.08	9.08	8.98	9.18	0.00
Tetrachloro-m-xylene	3.56	3.55	3.45	3.65	-0.01
alpha-BHC	4.01	4.00	3.90	4.10	-0.01
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)	4.34	4.33	4.23	4.43	-0.01
Heptachlor	4.94	4.93	4.83	5.03	-0.01
Aldrin	5.28	5.27	5.17	5.37	-0.01
Heptachlor epoxide	5.70	5.69	5.59	5.79	-0.01
Endosulfan I	6.08	6.08	5.98	6.18	0.00
Dieldrin	6.36	6.35	6.25	6.45	-0.01
4,4'-DDE	6.20	6.20	6.10	6.30	0.00
Endrin	6.58	6.58	6.48	6.68	0.00
Endosulfan II	6.80	6.79	6.69	6.89	-0.01
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	7.03	7.02	6.92	7.12	-0.01
Methoxychlor	7.50	7.50	7.40	7.60	0.00
Endrin ketone	7.64	7.63	7.53	7.73	-0.01
Endrin aldehyde	6.92	6.92	6.82	7.02	0.00
alpha-Chlordane	6.04	6.03	5.93	6.13	0.00
gamma-Chlordane	5.95	5.95	5.85	6.05	0.00

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

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Continuing Calib Date: 05/15/2025 **Initial Calibration Date(s):** 04/18/2025 04/18/2025

Continuing Calib Time: 15:11 **Initial Calibration Time(s):** 13:56 14:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.08	8.08	7.98	8.18	0.00
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
alpha-BHC	3.39	3.40	3.30	3.50	0.01
beta-BHC	4.03	4.03	3.93	4.13	0.00
delta-BHC	4.26	4.27	4.17	4.37	0.01
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.09	4.09	3.99	4.19	0.00
Aldrin	4.37	4.37	4.27	4.47	0.00
Heptachlor epoxide	4.88	4.88	4.78	4.98	0.00
Endosulfan I	5.25	5.25	5.15	5.35	0.00
Dieldrin	5.52	5.52	5.42	5.62	0.00
4,4'-DDE	5.38	5.38	5.28	5.48	0.00
Endrin	5.79	5.79	5.69	5.89	0.00
Endosulfan II	6.08	6.08	5.98	6.18	0.00
4,4'-DDD	5.93	5.93	5.83	6.03	0.00
Endosulfan sulfate	6.49	6.49	6.39	6.59	0.00
4,4'-DDT	6.19	6.19	6.09	6.29	0.00
Methoxychlor	6.76	6.76	6.66	6.86	0.00
Endrin ketone	7.00	7.00	6.90	7.10	0.01
Endrin aldehyde	6.26	6.26	6.16	6.36	0.00
alpha-Chlordane	5.19	5.19	5.09	5.29	0.00
gamma-Chlordane	5.13	5.13	5.03	5.23	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No.: CCAL04 **Date Analyzed:** 05/15/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088566.D **Time Analyzed:** 15:11

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.712	6.606	6.806	58.470	50.000	16.9
4,4'-DDE	6.204	6.097	6.297	54.860	50.000	9.7
4,4'-DDT	7.030	6.922	7.122	46.570	50.000	-6.9
Aldrin	5.280	5.173	5.373	58.220	50.000	16.4
alpha-BHC	4.007	3.901	4.101	59.520	50.000	19.0
alpha-Chlordane	6.035	5.929	6.129	57.590	50.000	15.2
beta-BHC	4.523	4.416	4.616	57.060	50.000	14.1
Decachlorobiphenyl	9.083	8.975	9.175	50.530	50.000	1.1
delta-BHC	4.772	4.665	4.865	57.580	50.000	15.2
Dieldrin	6.356	6.249	6.449	56.970	50.000	13.9
Endosulfan I	6.082	5.976	6.176	56.890	50.000	13.8
Endosulfan II	6.795	6.687	6.887	55.090	50.000	10.2
Endosulfan sulfate	7.158	7.050	7.250	53.960	50.000	7.9
Endrin	6.583	6.476	6.676	54.300	50.000	8.6
Endrin aldehyde	6.923	6.816	7.016	51.380	50.000	2.8
Endrin ketone	7.639	7.531	7.731	52.960	50.000	5.9
gamma-BHC (Lindane)	4.338	4.232	4.432	57.900	50.000	15.8
gamma-Chlordane	5.953	5.847	6.047	56.190	50.000	12.4
Heptachlor	4.938	4.831	5.031	56.190	50.000	12.4
Heptachlor epoxide	5.699	5.592	5.792	56.300	50.000	12.6
Methoxychlor	7.502	7.395	7.595	46.630	50.000	-6.7
Tetrachloro-m-xylene	3.558	3.452	3.652	56.160	50.000	12.3

Alliance TECHNICAL GROUP

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

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No.: CCAL04 **Date Analyzed:** 05/15/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088566.D **Time Analyzed:** 15:11

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.933	5.834	6.034	50.970	50.000	1.9
4,4'-DDE	5.377	5.280	5.480	49.140	50.000	-1.7
4,4'-DDT	6.187	6.088	6.288	43.150	50.000	-13.7
Aldrin	4.371	4.273	4.473	51.590	50.000	3.2
alpha-BHC	3.394	3.296	3.496	51.060	50.000	2.1
alpha-Chlordane	5.194	5.094	5.294	49.390	50.000	-1.2
beta-BHC	4.027	3.928	4.128	50.400	50.000	0.8
Decachlorobiphenyl	8.077	7.977	8.177	42.250	50.000	-15.5
delta-BHC	4.264	4.165	4.365	50.740	50.000	1.5
Dieldrin	5.516	5.417	5.617	49.380	50.000	-1.2
Endosulfan I	5.250	5.151	5.351	46.890	50.000	-6.2
Endosulfan II	6.084	5.984	6.184	48.000	50.000	-4.0
Endosulfan sulfate	6.486	6.386	6.586	47.050	50.000	-5.9
Endrin	5.793	5.693	5.893	48.660	50.000	-2.7
Endrin aldehyde	6.262	6.163	6.363	45.350	50.000	-9.3
Endrin ketone	6.995	6.895	7.095	46.110	50.000	-7.8
gamma-BHC (Lindane)	3.731	3.633	3.833	49.840	50.000	-0.3
gamma-Chlordane	5.129	5.030	5.230	49.820	50.000	-0.4
Heptachlor	4.085	3.986	4.186	48.240	50.000	-3.5
Heptachlor epoxide	4.875	4.777	4.977	49.790	50.000	-0.4
Methoxychlor	6.758	6.659	6.859	42.380	50.000	-15.2
Tetrachloro-m-xylene	2.882	2.783	2.983	50.330	50.000	0.7

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088566.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 15:11
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:19:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.558	2.882	112.2E6	735.9E6	56.164	50.330
28)	SA Decachlor...	9.083	8.077	167.2E6	780.7E6	50.534m	42.246
	Target Compounds						
2)	A alpha-BHC	4.007	3.394	256.7E6	1167.3E6	59.520	51.061
3)	MA gamma-BHC...	4.338	3.731	242.4E6	1073.5E6	57.895	49.841
4)	MA Heptachlor	4.938	4.085	226.9E6	1032.2E6	56.188	48.237
5)	MB Aldrin	5.280	4.371	229.9E6	1073.2E6	58.218	51.589
6)	B beta-BHC	4.523	4.027	92637997	466.4E6	57.065	50.395
7)	B delta-BHC	4.772	4.264	237.5E6	1078.7E6	57.582	50.735
8)	B Heptachlo...	5.699	4.875	201.2E6	940.8E6	56.296	49.793
9)	A Endosulfan I	6.082	5.250	192.1E6	844.7E6	56.890	46.893
10)	B gamma-Chl...	5.953	5.129	203.5E6	1011.2E6	56.189m	49.822
11)	B alpha-Chl...	6.035	5.194	207.9E6	968.2E6	57.594	49.393
12)	B 4,4'-DDE	6.204	5.377	181.0E6	967.8E6	54.864	49.144m
13)	MA Dieldrin	6.356	5.516	203.3E6	984.3E6	56.966	49.381
14)	MA Endrin	6.583	5.793	162.0E6	885.8E6	54.304	48.664
15)	B Endosulfa...	6.795	6.084	172.2E6	841.0E6	55.090	47.997
16)	A 4,4'-DDD	6.712	5.933	147.1E6	835.2E6	58.471m	50.969
17)	MA 4,4'-DDT	7.030	6.187	129.4E6	734.3E6	46.570	43.150
18)	B Endrin al...	6.923	6.262	118.6E6	603.2E6	51.378	45.351
19)	B Endosulfa...	7.158	6.486	155.2E6	806.1E6	53.963	47.050
20)	A Methoxychlor	7.502	6.758	69927669	386.6E6	46.633	42.384
21)	B Endrin ke...	7.639	6.995	163.5E6	862.5E6	52.963	46.111
22)	Mirex	8.123	7.190	120.6E6	662.7E6	51.349	44.715

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

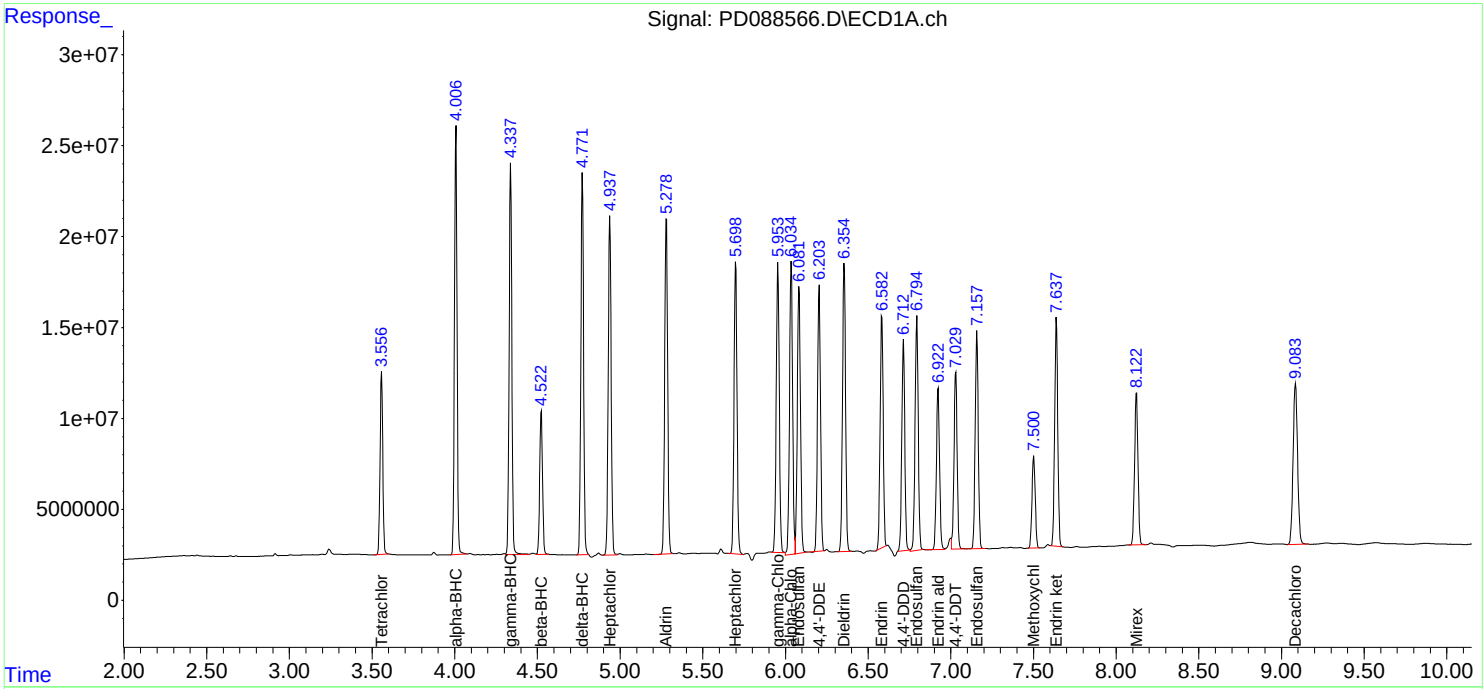
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088566.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 15:11
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

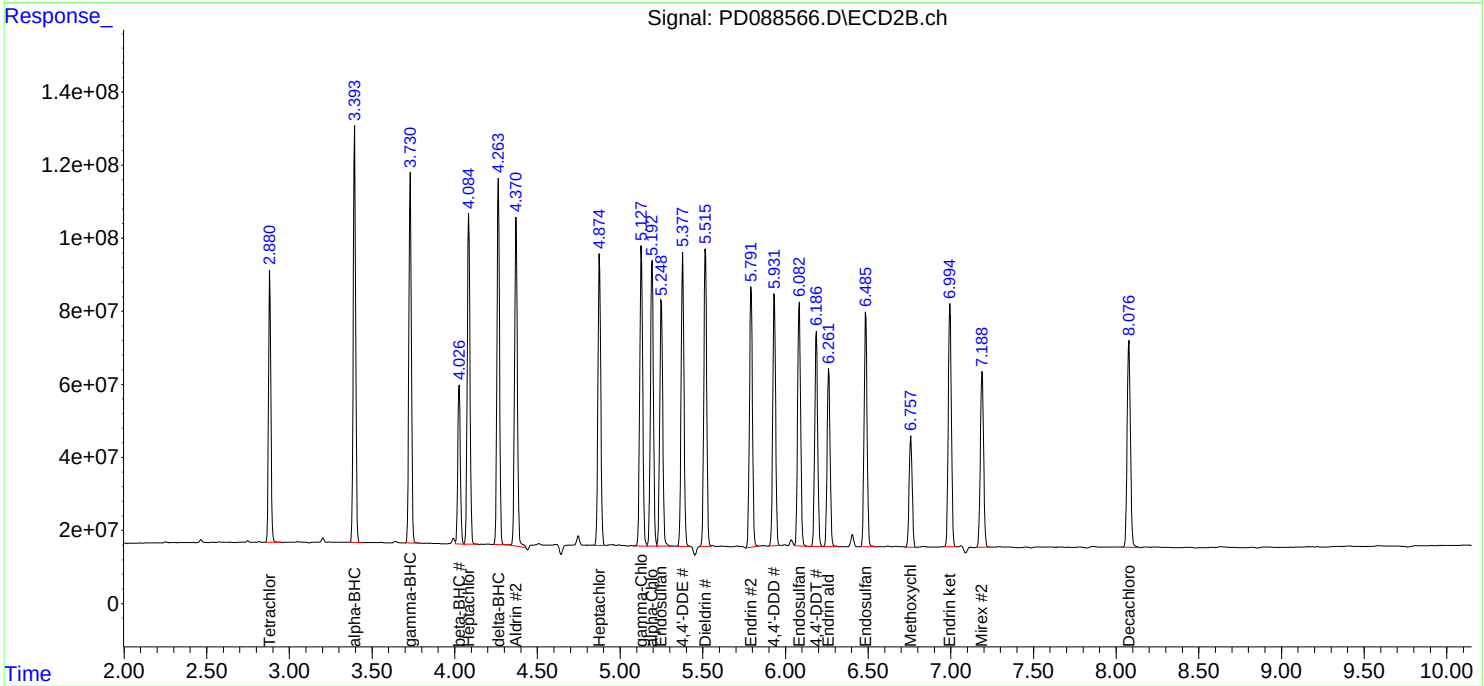
Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

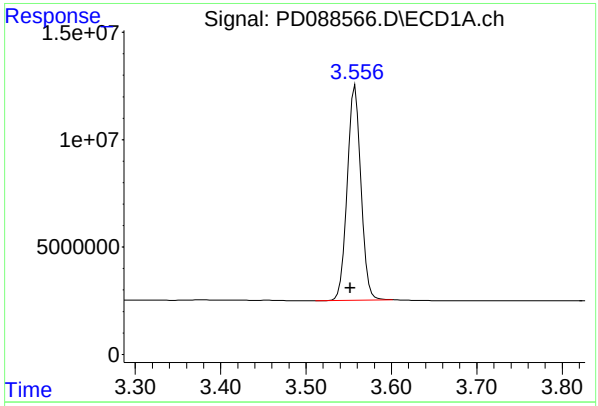
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:19:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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







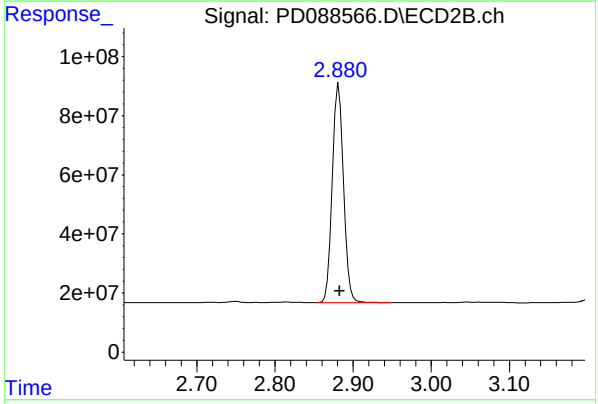
#1 Tetrachloro-m-xylene

R.T.: 3.558 min
Delta R.T.: 0.006 min
Response: 112182523
Conc: 56.16 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

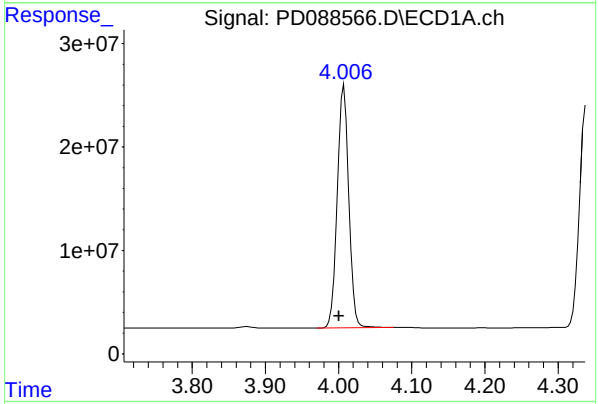
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



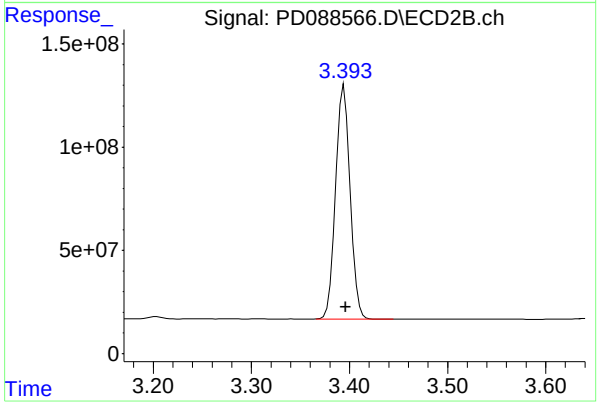
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: -0.001 min
Response: 735906691
Conc: 50.33 ng/ml



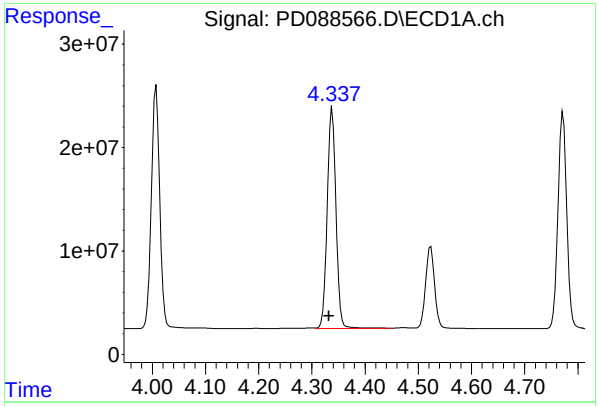
#2 alpha-BHC

R.T.: 4.007 min
Delta R.T.: 0.007 min
Response: 256650456
Conc: 59.52 ng/ml



#2 alpha-BHC

R.T.: 3.394 min
Delta R.T.: -0.002 min
Response: 1167336790
Conc: 51.06 ng/ml



#3 gamma-BHC (Lindane)

R.T.: 4.338 min
Delta R.T.: 0.006 mi
Response: 242436417
Conc: 57.90 ng/m

Instrument :
ECD_D
ClientSampleId :
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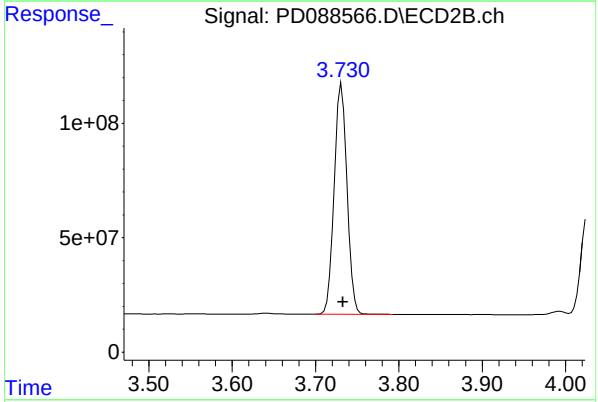
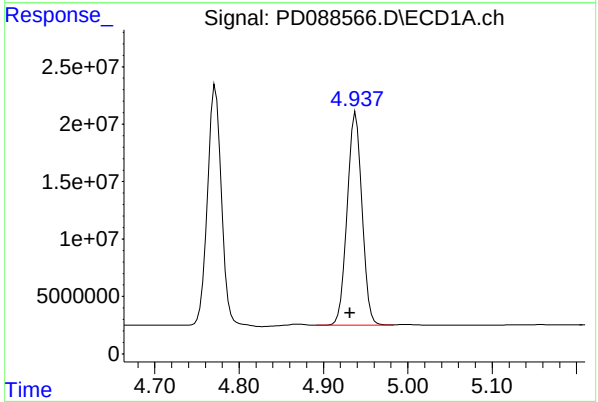


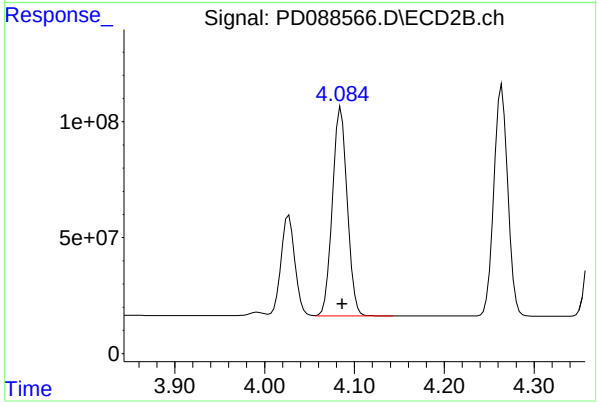
#3 gamma-BHC (Lindane)

R.T.: 3.731 min
Delta R.T.: -0.002 min
Response: 1073512558
Conc: 49.84 ng/ml



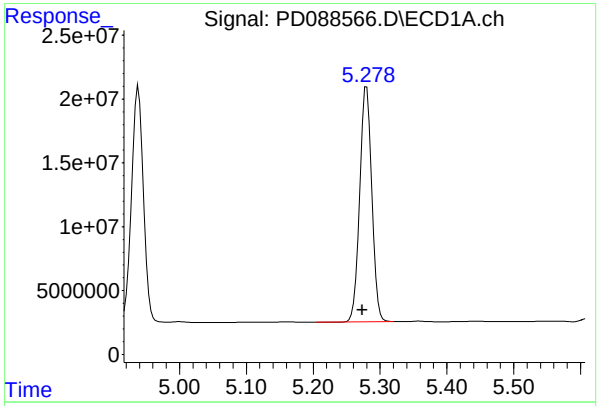
#4 Heptachlor

R.T.: 4.938 min
Delta R.T.: 0.007 min
Response: 226942625
Conc: 56.19 ng/ml



#4 Heptachlor

R.T.: 4.085 min
Delta R.T.: -0.001 min
Response: 1032182898
Conc: 48.24 ng/ml



#5 Aldrin

R.T.: 5.280 min
Delta R.T.: 0.006 min
Response: 229937516
Conc: 58.22 ng/ml

Instrument :
ECD_D
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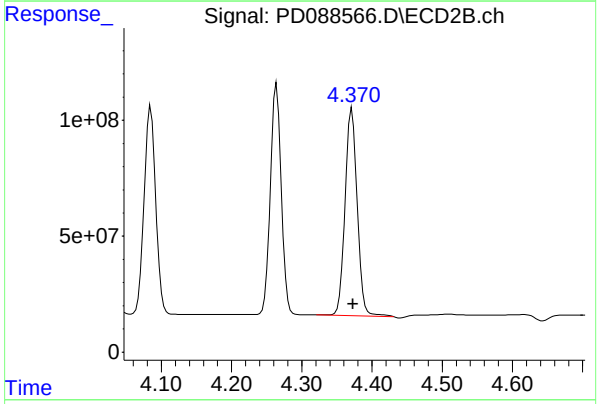
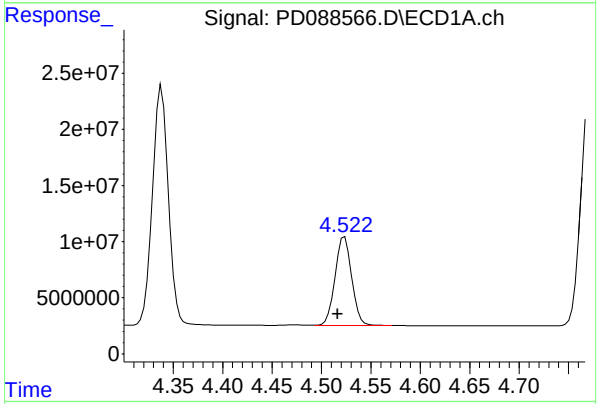


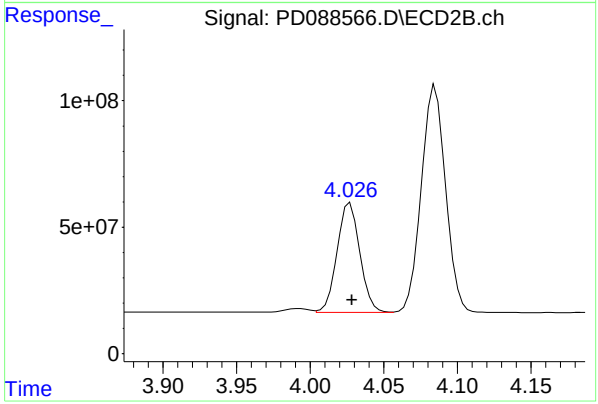
#5 Aldrin

R.T.: 4.371 min
Delta R.T.: -0.001 min
Response: 1073188416
Conc: 51.59 ng/ml



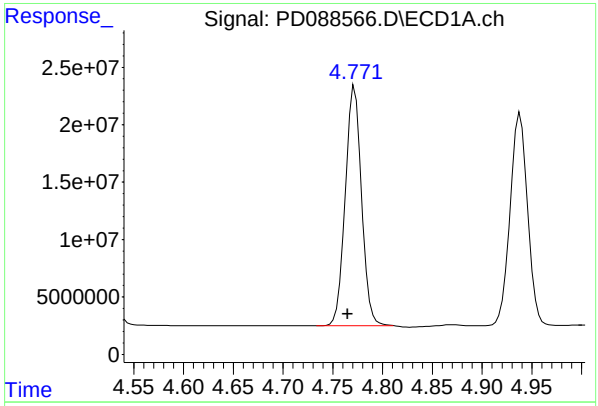
#6 beta-BHC

R.T.: 4.523 min
Delta R.T.: 0.007 min
Response: 92637997
Conc: 57.06 ng/ml



#6 beta-BHC

R.T.: 4.027 min
Delta R.T.: -0.001 min
Response: 466364599
Conc: 50.40 ng/ml



#7 delta-BHC

R.T.: 4.772 min
Delta R.T.: 0.007 min
Response: 237524891
Conc: 57.58 ng/ml

Instrument :
ECD_D
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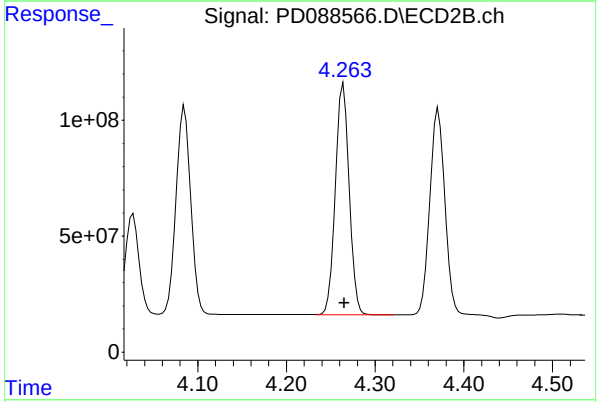
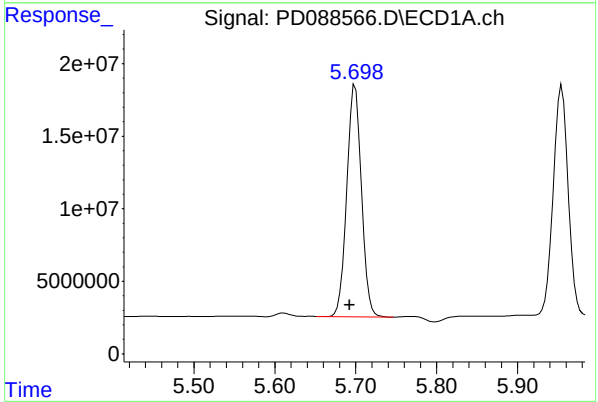


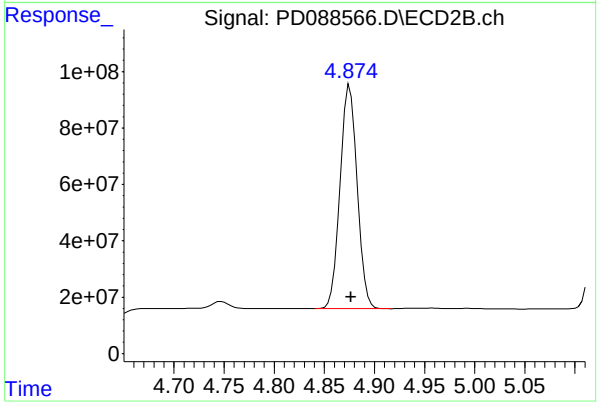
#7 delta-BHC

R.T.: 4.264 min
Delta R.T.: -0.001 min
Response: 1078714989
Conc: 50.74 ng/ml



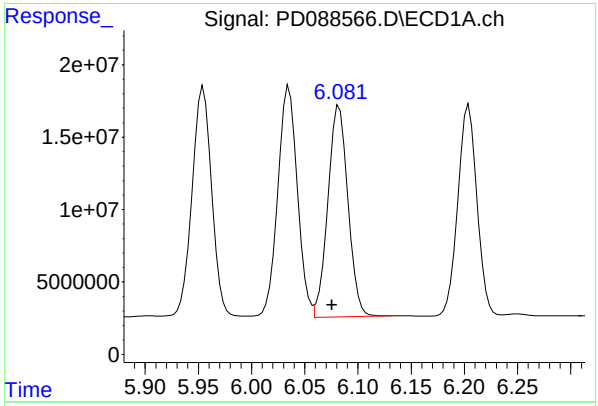
#8 Heptachlor epoxide

R.T.: 5.699 min
Delta R.T.: 0.007 min
Response: 201198448
Conc: 56.30 ng/ml



#8 Heptachlor epoxide

R.T.: 4.875 min
Delta R.T.: -0.001 min
Response: 940807961
Conc: 49.79 ng/ml



#9 Endosulfan I

R.T.: 6.082 min
Delta R.T.: 0.007 mi
Response: 192124903
Conc: 56.89 ng/m

Instrument :
ECD_D
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PSTDCCC050

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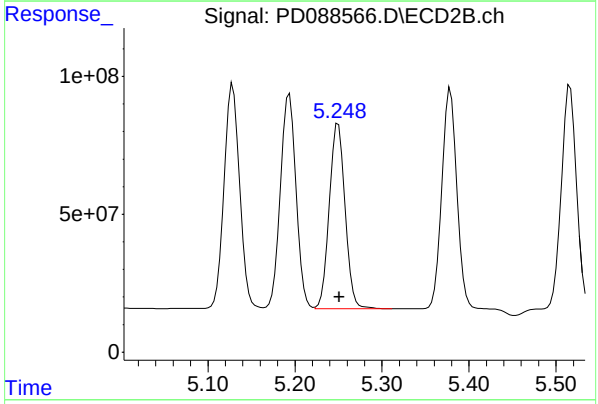
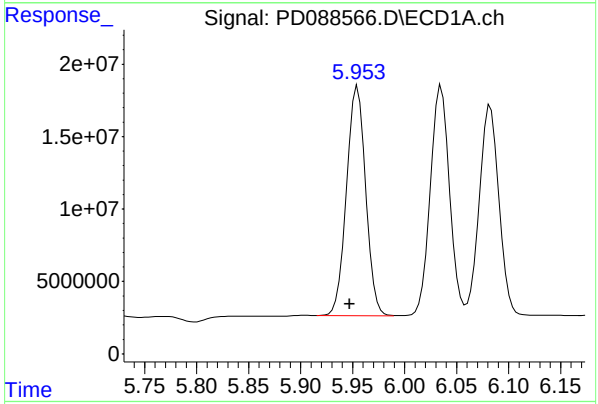


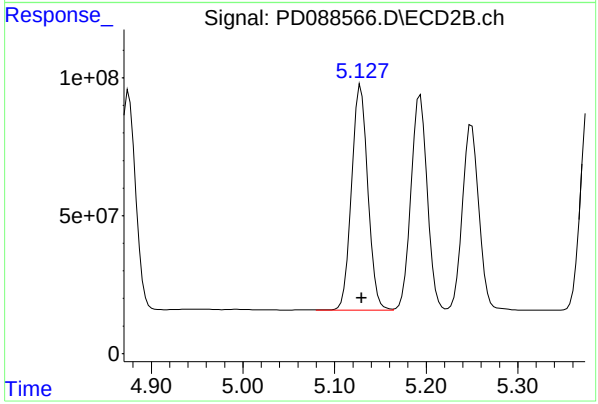
#9 Endosulfan I

R.T.: 5.250 min
Delta R.T.: -0.001 min
Response: 844662569
Conc: 46.89 ng/ml



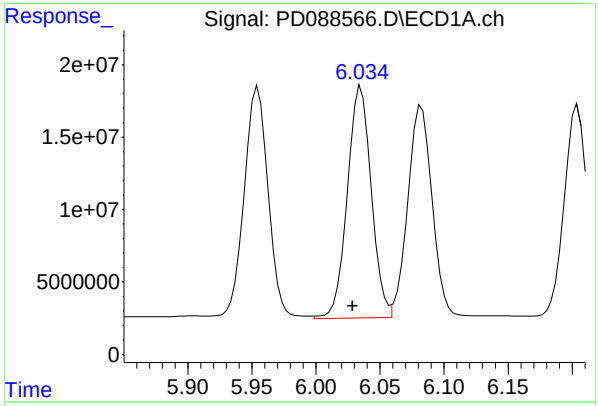
#10 gamma-Chlordane

R.T.: 5.953 min
Delta R.T.: 0.006 min
Response: 203518156
Conc: 56.19 ng/ml m



#10 gamma-Chlordane

R.T.: 5.129 min
Delta R.T.: 0.000 min
Response: 1011185534
Conc: 49.82 ng/ml



#11 alpha-Chlordane

R.T.: 6.035 min
Delta R.T.: 0.007 min
Response: 207890327
Conc: 57.59 ng/ml

Instrument :
ECD_D
ClientSampleId :
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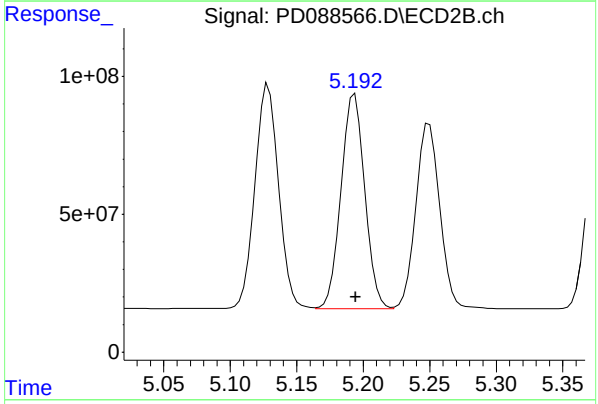
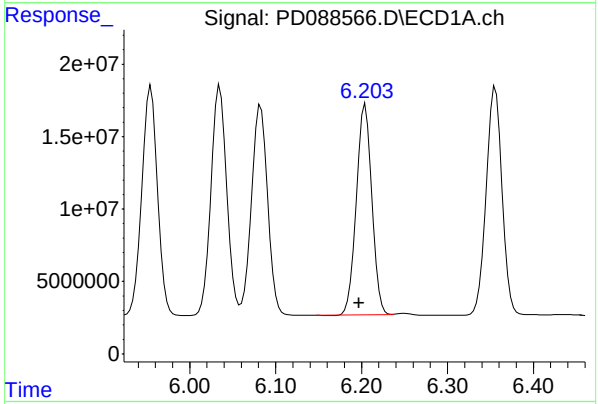


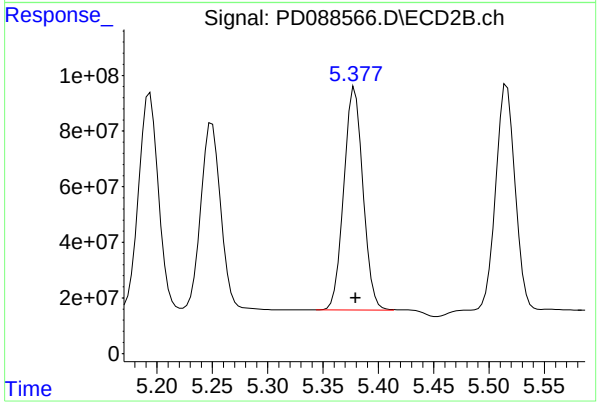
#11 alpha-Chlordane

R.T.: 5.194 min
Delta R.T.: 0.000 min
Response: 968245725
Conc: 49.39 ng/ml



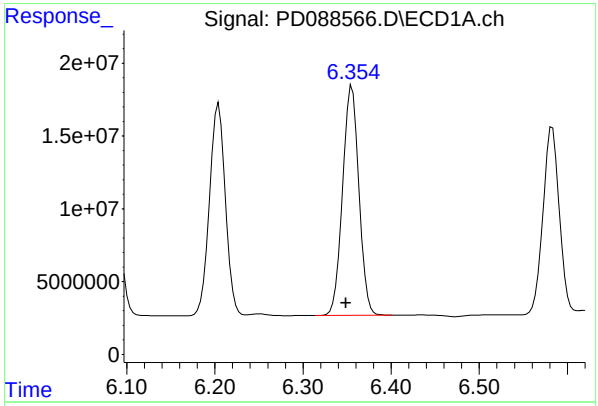
#12 4,4'-DDE

R.T.: 6.204 min
Delta R.T.: 0.007 min
Response: 180955432
Conc: 54.86 ng/ml



#12 4,4'-DDE

R.T.: 5.377 min
Delta R.T.: -0.002 min
Response: 967833466
Conc: 49.14 ng/ml m



#13 Dieldrin

R.T.: 6.356 min
Delta R.T.: 0.007 min
Response: 203281612
Conc: 56.97 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

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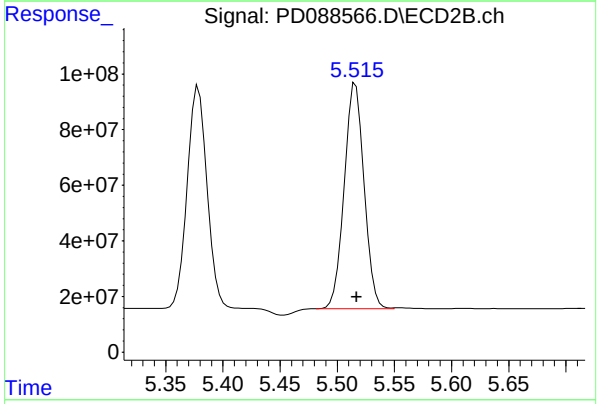
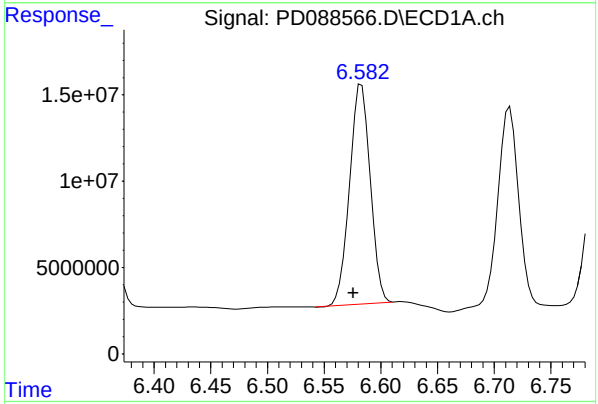


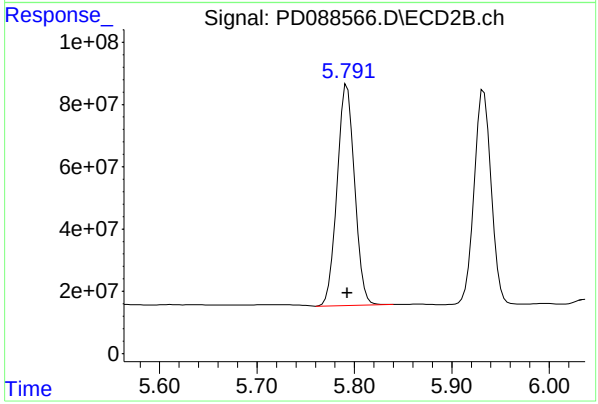
#13 Dieldrin

R.T.: 5.516 min
Delta R.T.: 0.000 min
Response: 984301264
Conc: 49.38 ng/ml



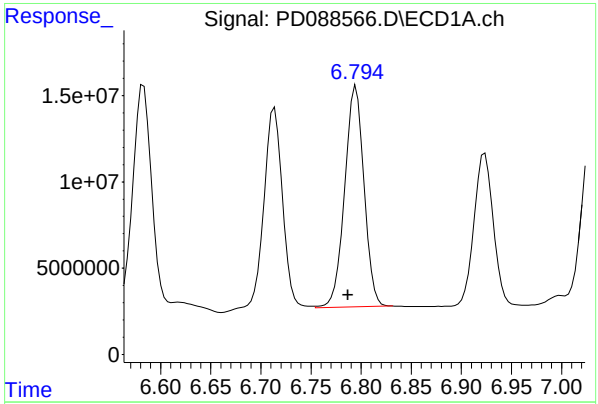
#14 Endrin

R.T.: 6.583 min
Delta R.T.: 0.007 min
Response: 161964671
Conc: 54.30 ng/ml



#14 Endrin

R.T.: 5.793 min
Delta R.T.: 0.000 min
Response: 885803653
Conc: 48.66 ng/ml



#15 Endosulfan II

R.T.: 6.795 min
Delta R.T.: 0.008 mi
Response: 172224317
Conc: 55.09 ng/m

Instrument :
ECD_D
ClientSampleId :
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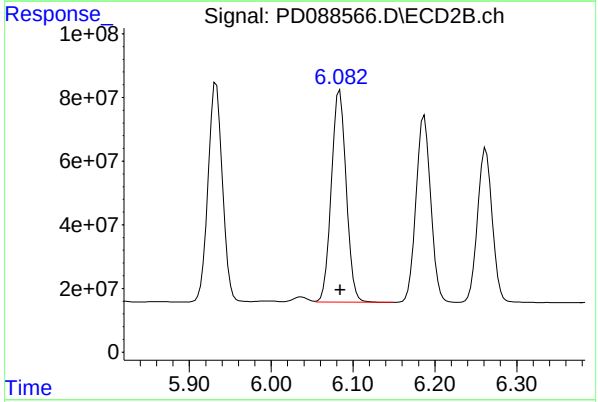
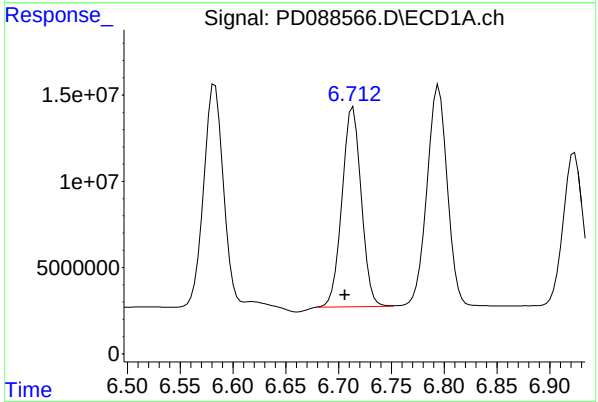


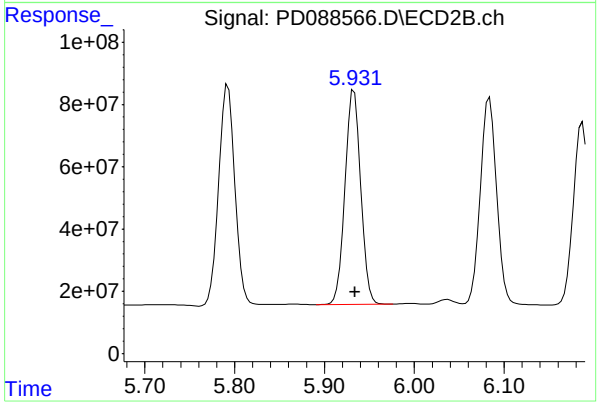
#15 Endosulfan II

R.T.: 6.084 min
Delta R.T.: 0.000 min
Response: 840989175
Conc: 48.00 ng/ml



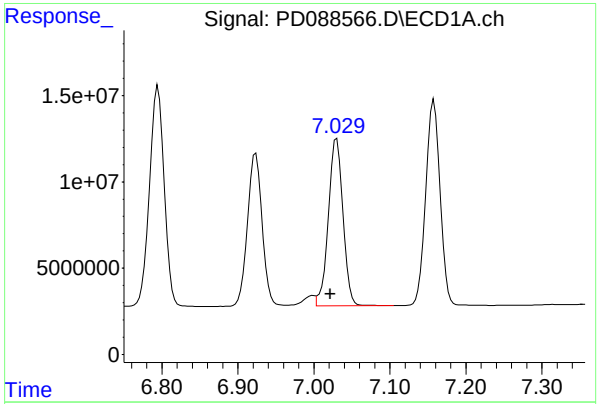
#16 4,4'-DDD

R.T.: 6.712 min
Delta R.T.: 0.006 min
Response: 147052261
Conc: 58.47 ng/ml m



#16 4,4'-DDD

R.T.: 5.933 min
Delta R.T.: -0.001 min
Response: 835184504
Conc: 50.97 ng/ml



#17 4,4'-DDT

R.T.: 7.030 min
Delta R.T.: 0.008 min
Response: 129350844
Conc: 46.57 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

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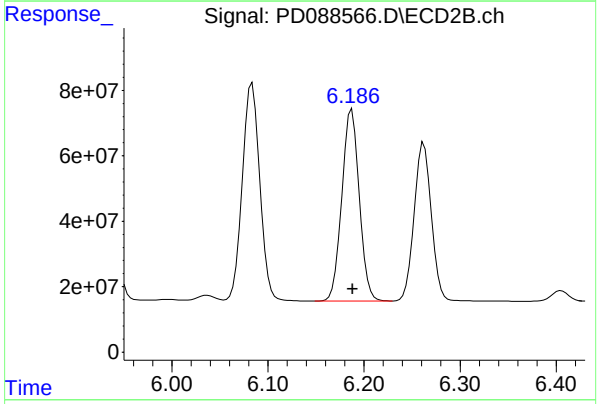
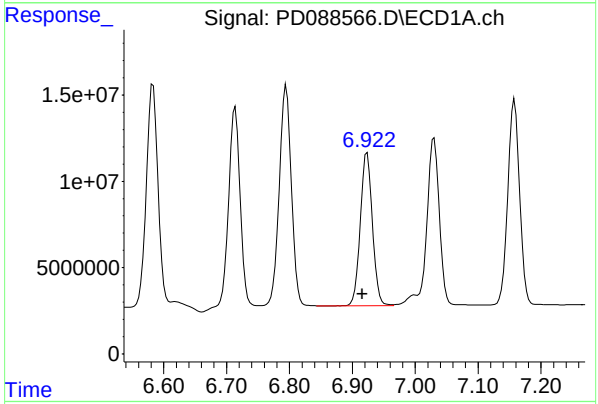


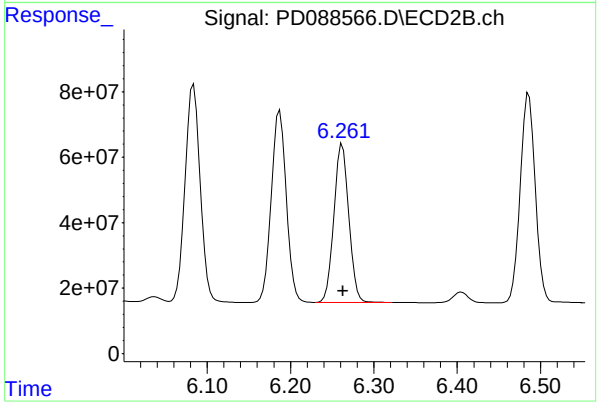
#17 4,4'-DDT

R.T.: 6.187 min
Delta R.T.: 0.000 min
Response: 734269115
Conc: 43.15 ng/ml



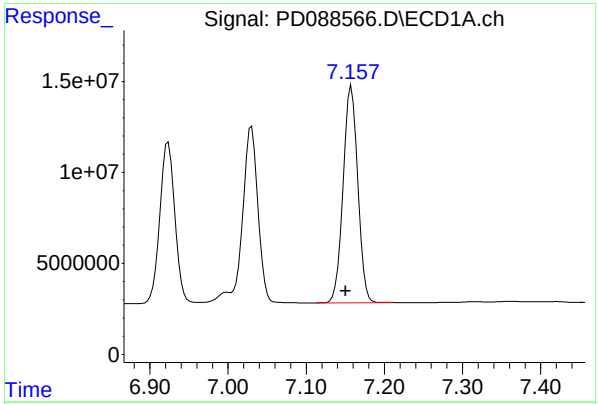
#18 Endrin aldehyde

R.T.: 6.923 min
Delta R.T.: 0.007 min
Response: 118578937
Conc: 51.38 ng/ml



#18 Endrin aldehyde

R.T.: 6.262 min
Delta R.T.: 0.000 min
Response: 603216848
Conc: 45.35 ng/ml



#19 Endosulfan Sulfate

R.T.: 7.158 min
Delta R.T.: 0.008 min
Response: 155188397
Conc: 53.96 ng/ml

Instrument :
ECD_D
ClientSampleId :
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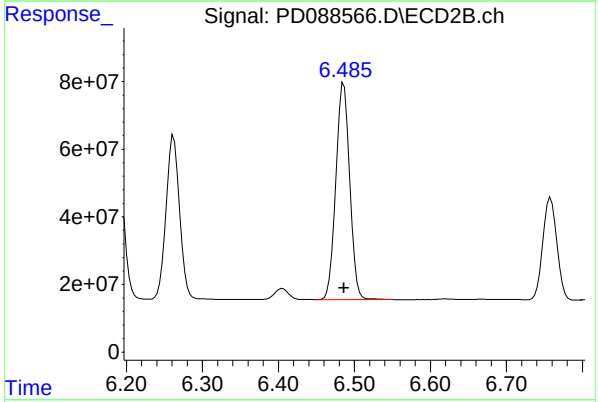
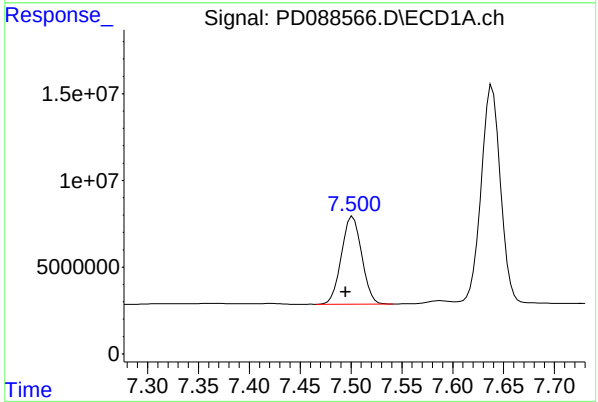


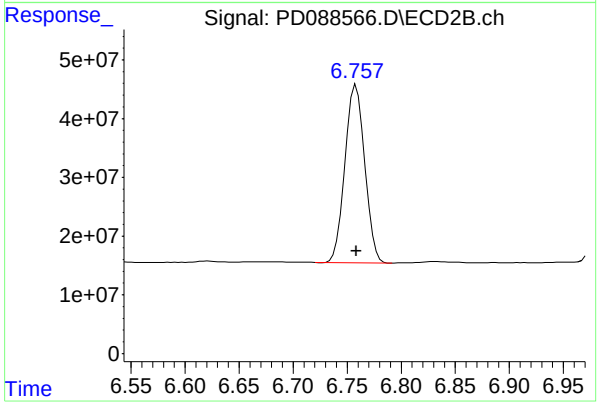
#19 Endosulfan Sulfate

R.T.: 6.486 min
Delta R.T.: 0.000 min
Response: 806120073
Conc: 47.05 ng/ml



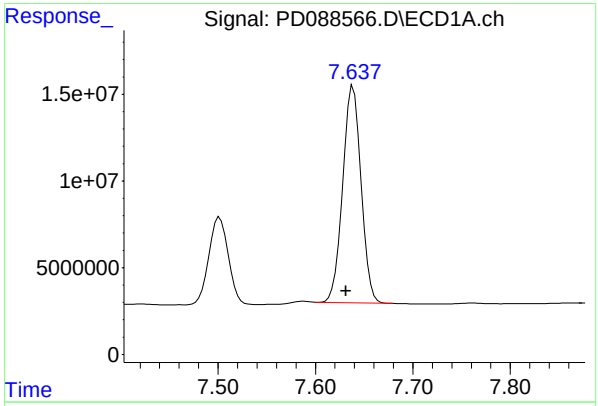
#20 Methoxychlor

R.T.: 7.502 min
Delta R.T.: 0.007 min
Response: 69927669
Conc: 46.63 ng/ml



#20 Methoxychlor

R.T.: 6.758 min
Delta R.T.: 0.000 min
Response: 386588722
Conc: 42.38 ng/ml



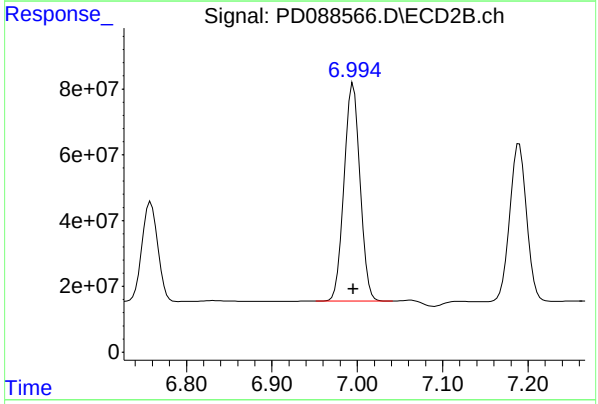
#21 Endrin ketone

R.T.: 7.639 min
Delta R.T.: 0.007 min
Response: 163475858
Conc: 52.96 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

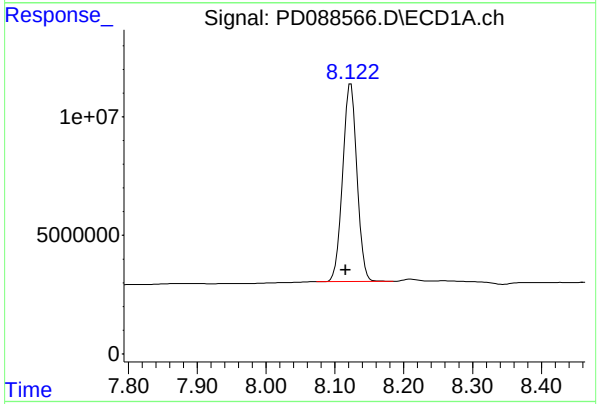
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



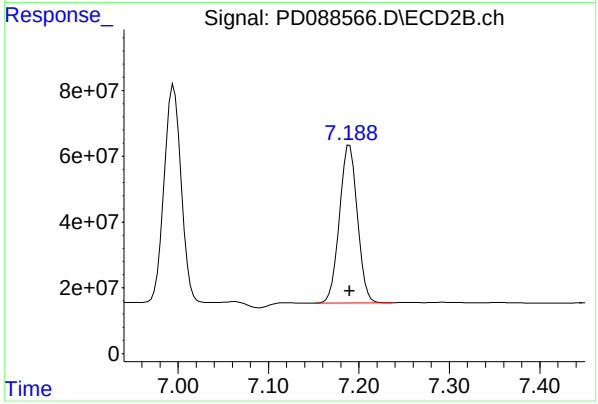
#21 Endrin ketone

R.T.: 6.995 min
Delta R.T.: 0.000 min
Response: 862455559
Conc: 46.11 ng/ml



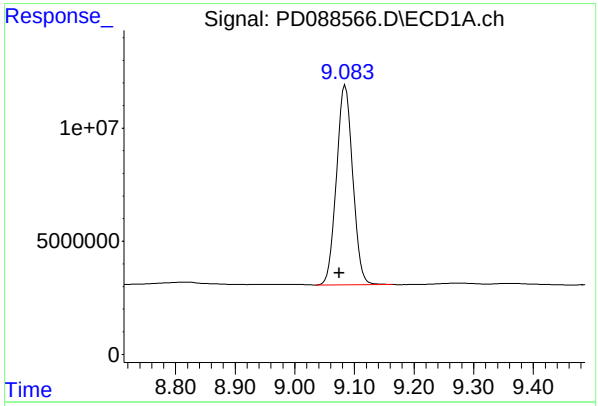
#22 Mirex

R.T.: 8.123 min
Delta R.T.: 0.008 min
Response: 120583368
Conc: 51.35 ng/ml



#22 Mirex

R.T.: 7.190 min
Delta R.T.: 0.000 min
Response: 662721214
Conc: 44.72 ng/ml



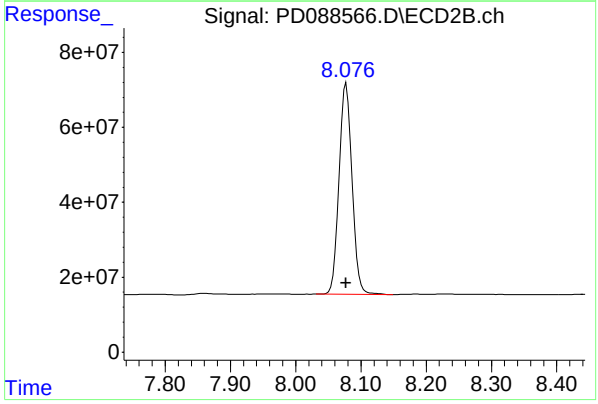
#28 Decachlorobiphenyl

R.T.: 9.083 min
Delta R.T.: 0.008 min
Response: 167171487
Conc: 50.53 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



#28 Decachlorobiphenyl

R.T.: 8.077 min
Delta R.T.: 0.000 min
Response: 780683914
Conc: 42.25 ng/ml

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

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Continuing Calib Date: 05/15/2025 **Initial Calibration Date(s):** 04/18/2025 04/18/2025

Continuing Calib Time: 19:02 **Initial Calibration Time(s):** 13:56 14:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.08	9.08	8.98	9.18	0.01
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
alpha-BHC	4.00	4.00	3.90	4.10	0.00
beta-BHC	4.52	4.52	4.42	4.62	0.00
delta-BHC	4.77	4.77	4.67	4.87	0.01
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.93	4.93	4.83	5.03	0.00
Aldrin	5.27	5.27	5.17	5.37	0.00
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.00
Endosulfan I	6.08	6.08	5.98	6.18	0.00
Dieldrin	6.35	6.35	6.25	6.45	0.00
4,4'-DDE	6.20	6.20	6.10	6.30	0.00
Endrin	6.58	6.58	6.48	6.68	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	7.15	7.15	7.05	7.25	0.00
4,4'-DDT	7.02	7.02	6.92	7.12	0.00
Methoxychlor	7.50	7.50	7.40	7.60	0.01
Endrin ketone	7.63	7.63	7.53	7.73	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.00
alpha-Chlordane	6.03	6.03	5.93	6.13	0.00
gamma-Chlordane	5.95	5.95	5.85	6.05	0.00

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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Continuing Calib Date: 05/15/2025 **Initial Calibration Date(s):** 04/18/2025 04/18/2025

Continuing Calib Time: 19:02 **Initial Calibration Time(s):** 13:56 14:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.08	8.08	7.98	8.18	0.01
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
alpha-BHC	3.40	3.40	3.30	3.50	0.01
beta-BHC	4.03	4.03	3.93	4.13	0.00
delta-BHC	4.26	4.27	4.17	4.37	0.01
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.09	4.09	3.99	4.19	0.00
Aldrin	4.37	4.37	4.27	4.47	0.00
Heptachlor epoxide	4.88	4.88	4.78	4.98	0.00
Endosulfan I	5.25	5.25	5.15	5.35	0.00
Dieldrin	5.52	5.52	5.42	5.62	0.01
4,4'-DDE	5.38	5.38	5.28	5.48	0.00
Endrin	5.79	5.79	5.69	5.89	0.00
Endosulfan II	6.08	6.08	5.98	6.18	0.00
4,4'-DDD	5.93	5.93	5.83	6.03	0.00
Endosulfan sulfate	6.48	6.49	6.39	6.59	0.01
4,4'-DDT	6.19	6.19	6.09	6.29	0.00
Methoxychlor	6.76	6.76	6.66	6.86	0.00
Endrin ketone	6.99	7.00	6.90	7.10	0.01
Endrin aldehyde	6.26	6.26	6.16	6.36	0.00
alpha-Chlordane	5.19	5.19	5.09	5.29	0.00
gamma-Chlordane	5.13	5.13	5.03	5.23	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No.: CCAL05 **Date Analyzed:** 05/15/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088573.D **Time Analyzed:** 19:02

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.707	6.606	6.806	58.240	50.000	16.5
4,4'-DDE	6.197	6.097	6.297	54.490	50.000	9.0
4,4'-DDT	7.023	6.922	7.122	42.710	50.000	-14.6
Aldrin	5.273	5.173	5.373	59.230	50.000	18.5
alpha-BHC	4.001	3.901	4.101	60.490	50.000	21.0
alpha-Chlordane	6.029	5.929	6.129	56.560	50.000	13.1
beta-BHC	4.516	4.416	4.616	57.480	50.000	15.0
Decachlorobiphenyl	9.075	8.975	9.175	48.590	50.000	-2.8
delta-BHC	4.765	4.665	4.865	58.450	50.000	16.9
Dieldrin	6.348	6.249	6.449	56.640	50.000	13.3
Endosulfan I	6.076	5.976	6.176	56.250	50.000	12.5
Endosulfan II	6.788	6.687	6.887	51.310	50.000	2.6
Endosulfan sulfate	7.151	7.050	7.250	53.810	50.000	7.6
Endrin	6.576	6.476	6.676	53.980	50.000	8.0
Endrin aldehyde	6.917	6.816	7.016	48.780	50.000	-2.4
Endrin ketone	7.632	7.531	7.731	51.450	50.000	2.9
gamma-BHC (Lindane)	4.332	4.232	4.432	57.380	50.000	14.8
gamma-Chlordane	5.947	5.847	6.047	57.130	50.000	14.3
Heptachlor	4.931	4.831	5.031	53.400	50.000	6.8
Heptachlor epoxide	5.692	5.592	5.792	56.820	50.000	13.6
Methoxychlor	7.495	7.395	7.595	42.340	50.000	-15.3
Tetrachloro-m-xylene	3.551	3.452	3.652	57.720	50.000	15.4

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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No.: CCAL05 **Date Analyzed:** 05/15/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088573.D **Time Analyzed:** 19:02

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.931	5.834	6.034	52.620	50.000	5.2
4,4'-DDE	5.377	5.280	5.480	52.650	50.000	5.3
4,4'-DDT	6.186	6.088	6.288	40.090	50.000	-19.8
Aldrin	4.371	4.273	4.473	53.480	50.000	7.0
alpha-BHC	3.395	3.296	3.496	53.260	50.000	6.5
alpha-Chlordane	5.192	5.094	5.294	50.700	50.000	1.4
beta-BHC	4.027	3.928	4.128	52.260	50.000	4.5
Decachlorobiphenyl	8.075	7.977	8.177	41.130	50.000	-17.7
delta-BHC	4.264	4.165	4.365	52.370	50.000	4.7
Dieldrin	5.515	5.417	5.617	50.880	50.000	1.8
Endosulfan I	5.249	5.151	5.351	47.610	50.000	-4.8
Endosulfan II	6.082	5.984	6.184	48.440	50.000	-3.1
Endosulfan sulfate	6.484	6.386	6.586	47.270	50.000	-5.5
Endrin	5.791	5.693	5.893	49.720	50.000	-0.6
Endrin aldehyde	6.261	6.163	6.363	45.320	50.000	-9.4
Endrin ketone	6.994	6.895	7.095	45.140	50.000	-9.7
gamma-BHC (Lindane)	3.731	3.633	3.833	51.100	50.000	2.2
gamma-Chlordane	5.128	5.030	5.230	51.160	50.000	2.3
Heptachlor	4.085	3.986	4.186	47.680	50.000	-4.6
Heptachlor epoxide	4.875	4.777	4.977	51.310	50.000	2.6
Methoxychlor	6.755	6.659	6.859	40.120	50.000	-19.8
Tetrachloro-m-xylene	2.882	2.783	2.983	52.730	50.000	5.5

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088573.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 19:02
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:21:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.551	2.882	115.3E6	771.0E6	57.724	52.727
28)	SA Decachlor...	9.075	8.075	160.7E6	760.0E6	48.592	41.128
	Target Compounds						
2)	A alpha-BHC	4.001	3.395	260.8E6	1217.7E6	60.489	53.263
3)	MA gamma-BHC...	4.332	3.731	240.3E6	1100.6E6	57.384	51.101
4)	MA Heptachlor	4.931	4.085	215.7E6	1020.3E6	53.398	47.681
5)	MB Aldrin	5.273	4.371	233.9E6	1112.5E6	59.231	53.480
6)	B beta-BHC	4.516	4.027	93312159	483.7E6	57.480	52.264
7)	B delta-BHC	4.765	4.264	241.1E6	1113.4E6	58.452	52.367
8)	B Heptachlo...	5.692	4.875	203.1E6	969.4E6	56.824	51.309
9)	A Endosulfan I	6.076	5.249	190.0E6	857.6E6	56.249	47.609
10)	B gamma-Chl...	5.947	5.128	206.9E6	1038.4E6	57.129	51.164
11)	B alpha-Chl...	6.029	5.192	204.1E6	993.9E6	56.556	50.700
12)	B 4,4'-DDE	6.197	5.377	179.7E6	1036.9E6	54.494	52.649
13)	MA Dieldrin	6.348	5.515	202.1E6	1014.2E6	56.637	50.879
14)	MA Endrin	6.576	5.791	161.0E6	905.0E6	53.975	49.721
15)	B Endosulfa...	6.788	6.082	160.4E6	848.8E6	51.310	48.444
16)	A 4,4'-DDD	6.707	5.931	146.5E6	862.2E6	58.238	52.615
17)	MA 4,4'-DDT	7.023	6.186	118.6E6	682.2E6	42.711	40.089
18)	B Endrin al...	6.917	6.261	112.6E6	602.9E6	48.784	45.325
19)	B Endosulfa...	7.151	6.484	154.8E6	809.9E6	53.815	47.270
20)	A Methoxychlor	7.495	6.755	63495162	365.9E6	42.343	40.119m
21)	B Endrin ke...	7.632	6.994	158.8E6	844.3E6	51.452	45.139
22)	Mirex	8.116	7.187	112.6E6	652.2E6	47.936	44.004

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

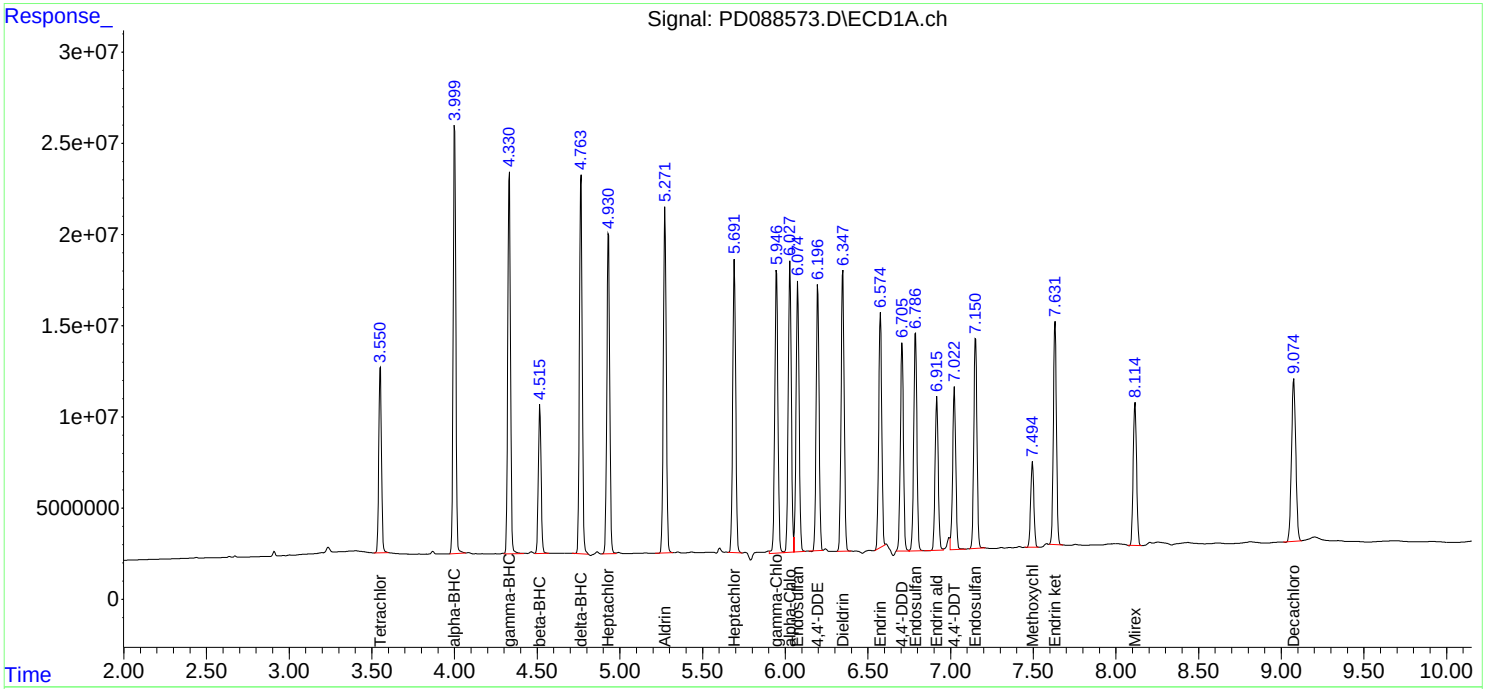
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088573.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 19:02
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

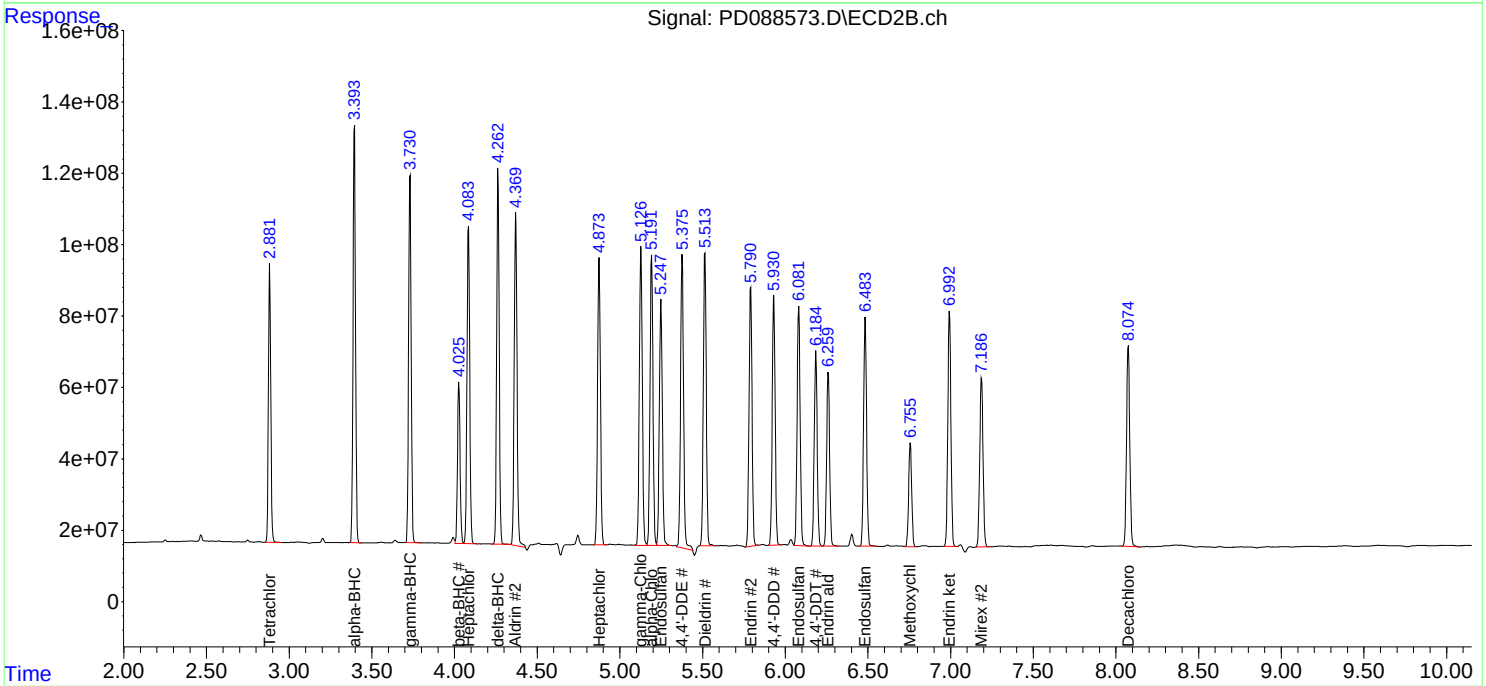
Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

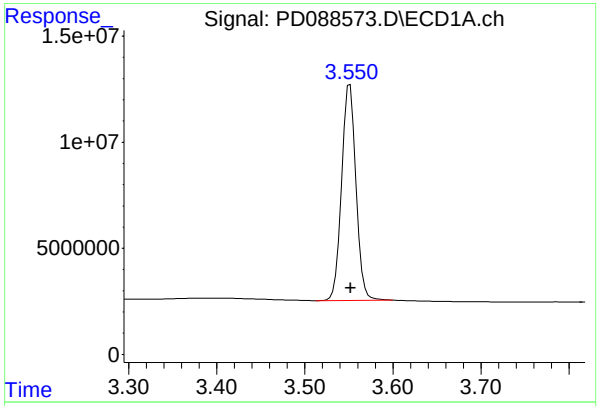
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:21:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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







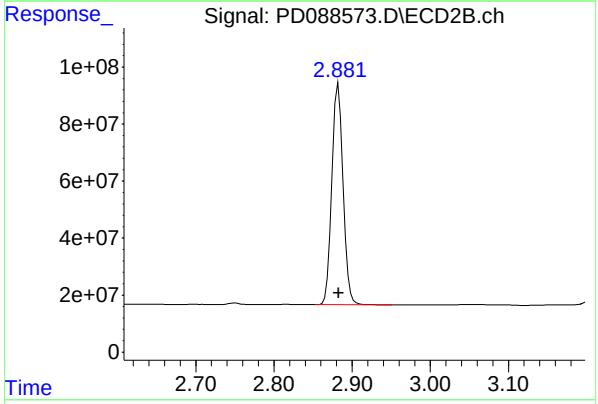
#1 Tetrachloro-m-xylene

R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 115297237
Conc: 57.72 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

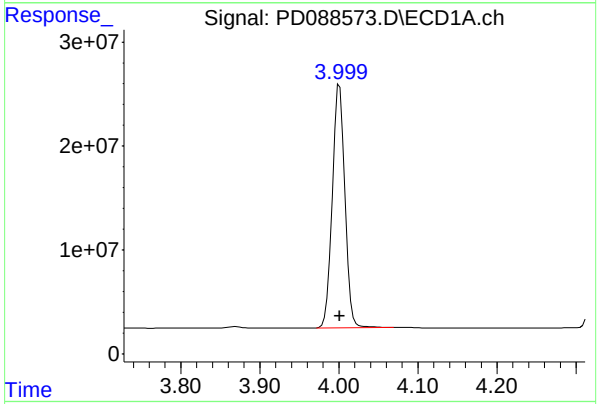
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



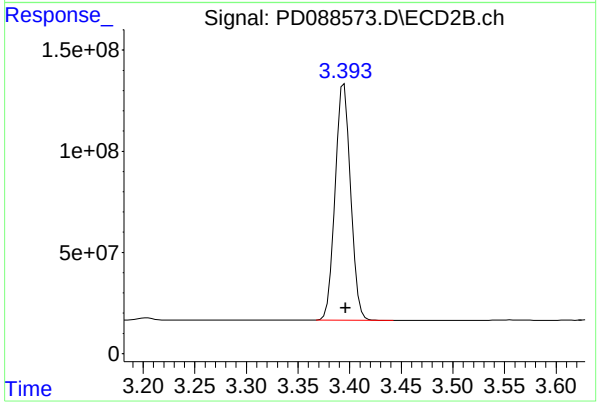
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 770954531
Conc: 52.73 ng/ml



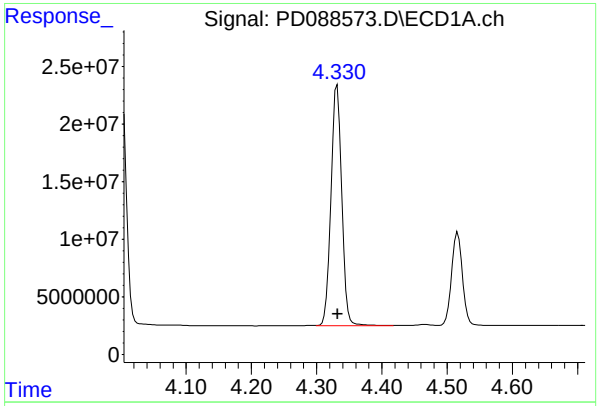
#2 alpha-BHC

R.T.: 4.001 min
Delta R.T.: 0.000 min
Response: 260829636
Conc: 60.49 ng/ml



#2 alpha-BHC

R.T.: 3.395 min
Delta R.T.: -0.001 min
Response: 1217677244
Conc: 53.26 ng/ml



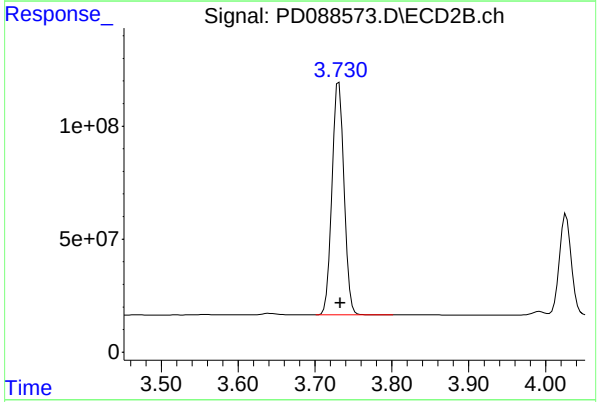
#3 gamma-BHC (Lindane)

R.T.: 4.332 min
Delta R.T.: 0.000 min
Response: 240294542
Conc: 57.38 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

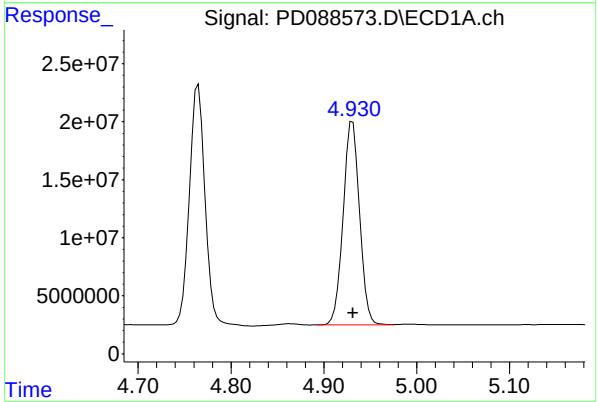
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



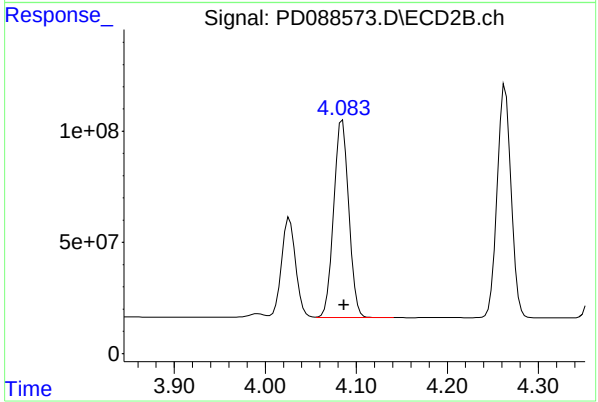
#3 gamma-BHC (Lindane)

R.T.: 3.731 min
Delta R.T.: -0.002 min
Response: 1100649478
Conc: 51.10 ng/ml



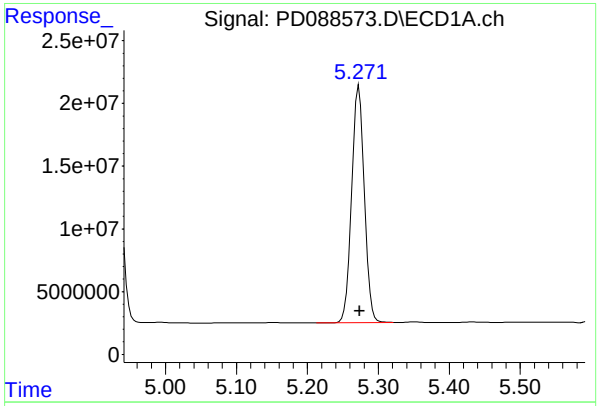
#4 Heptachlor

R.T.: 4.931 min
Delta R.T.: 0.000 min
Response: 215673999
Conc: 53.40 ng/ml



#4 Heptachlor

R.T.: 4.085 min
Delta R.T.: -0.002 min
Response: 1020287532
Conc: 47.68 ng/ml



#5 Aldrin

R.T.: 5.273 min
Delta R.T.: 0.000 min
Response: 233939721
Conc: 59.23 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

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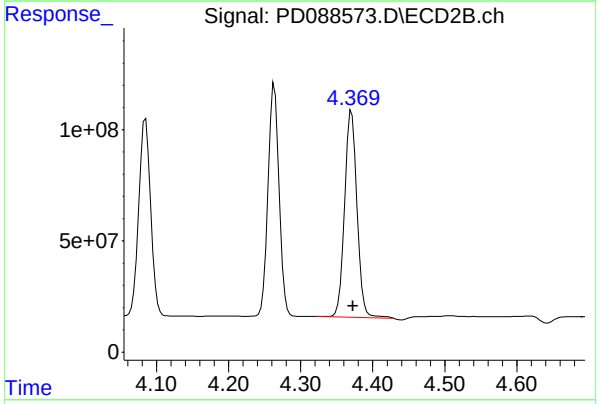
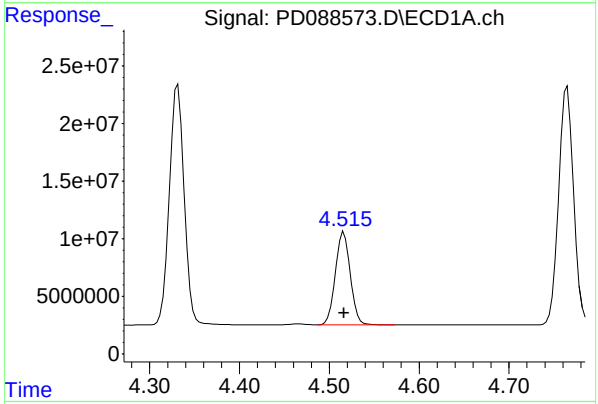
Supervised By :mohammad ahmed 05/19/2025



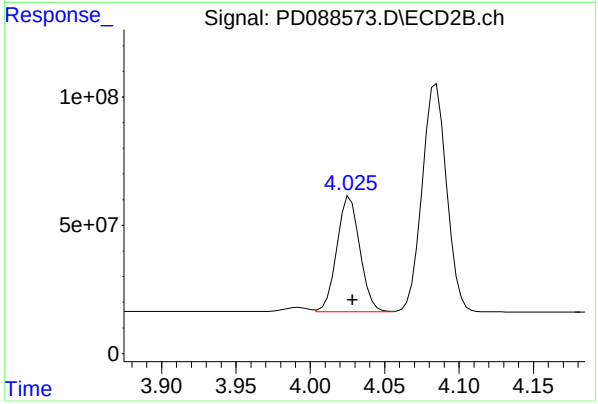
#5 Aldrin

R.T.: 4.371 min
Delta R.T.: -0.002 min
Response: 1112525552
Conc: 53.48 ng/ml



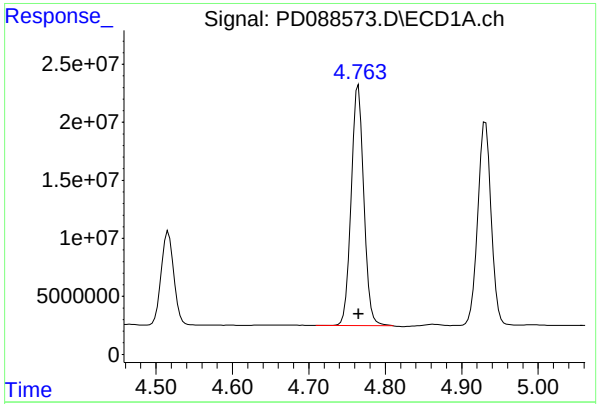
#6 beta-BHC

R.T.: 4.516 min
Delta R.T.: 0.000 min
Response: 93312159
Conc: 57.48 ng/ml



#6 beta-BHC

R.T.: 4.027 min
Delta R.T.: -0.002 min
Response: 483658374
Conc: 52.26 ng/ml



#7 delta-BHC

R.T.: 4.765 min
Delta R.T.: 0.000 min
Response: 241113699
Conc: 58.45 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

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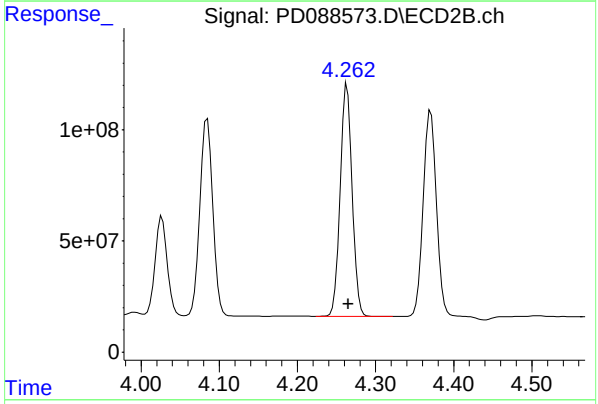
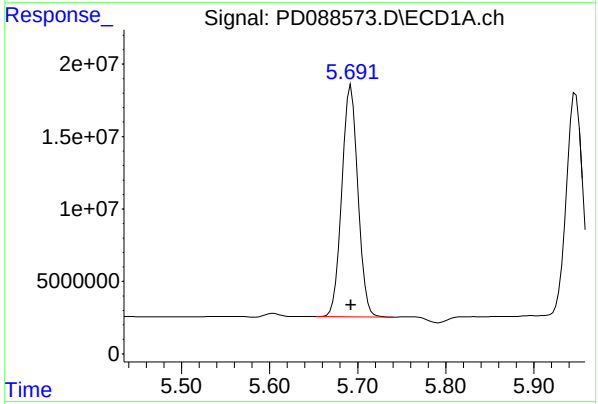
Supervised By :mohammad ahmed 05/19/2025



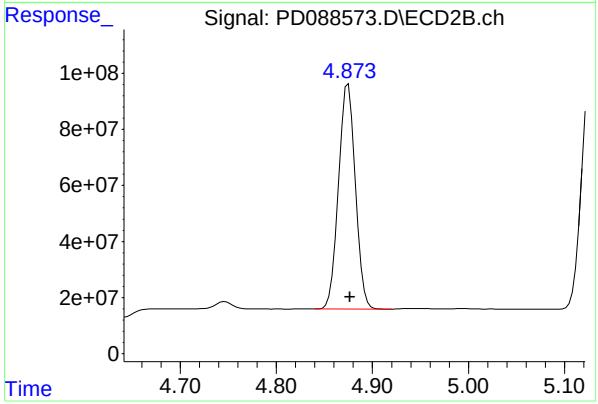
#7 delta-BHC

R.T.: 4.264 min
Delta R.T.: -0.002 min
Response: 1113409617
Conc: 52.37 ng/ml



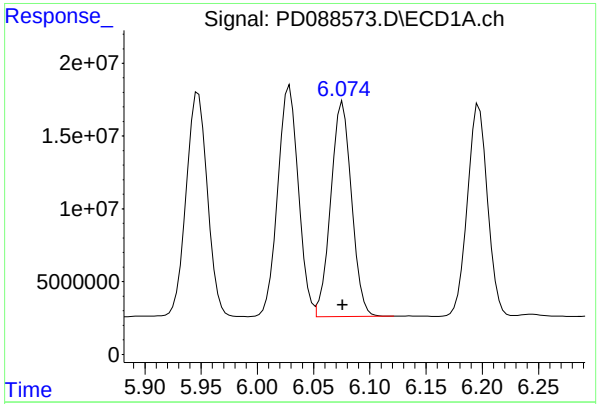
#8 Heptachlor epoxide

R.T.: 5.692 min
Delta R.T.: 0.000 min
Response: 203086247
Conc: 56.82 ng/ml



#8 Heptachlor epoxide

R.T.: 4.875 min
Delta R.T.: -0.002 min
Response: 969448265
Conc: 51.31 ng/ml



#9 Endosulfan I

R.T.: 6.076 min
Delta R.T.: 0.000 min
Response: 189961918
Conc: 56.25 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

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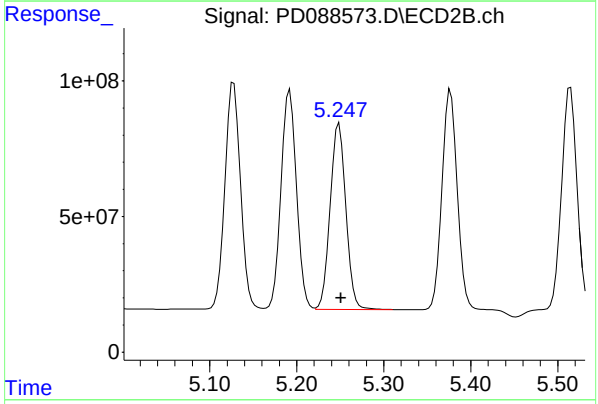
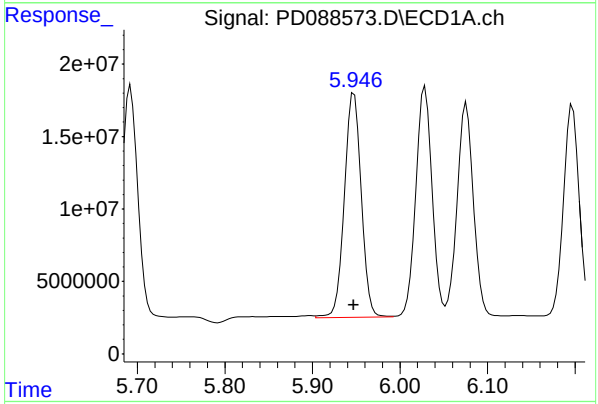
Supervised By :mohammad ahmed 05/19/2025



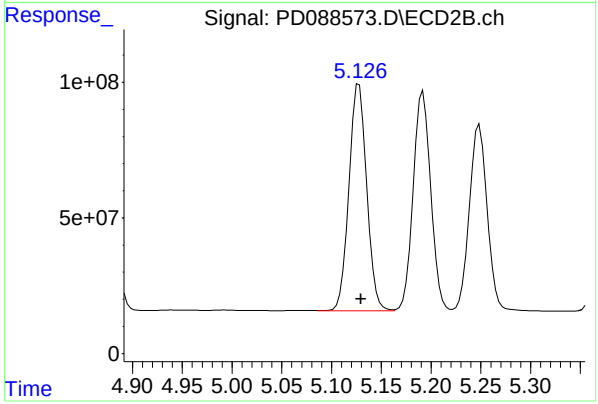
#9 Endosulfan I

R.T.: 5.249 min
Delta R.T.: -0.003 min
Response: 857555217
Conc: 47.61 ng/ml



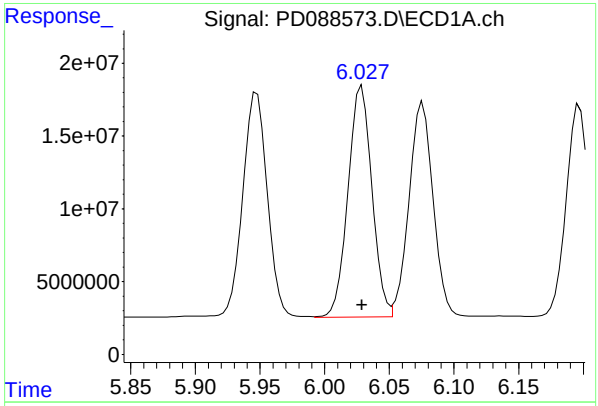
#10 gamma-Chlordane

R.T.: 5.947 min
Delta R.T.: 0.000 min
Response: 206925481
Conc: 57.13 ng/ml



#10 gamma-Chlordane

R.T.: 5.128 min
Delta R.T.: -0.002 min
Response: 1038429005
Conc: 51.16 ng/ml



#11 alpha-Chlordane

R.T.: 6.029 min
Delta R.T.: 0.000 min
Response: 204143419
Conc: 56.56 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

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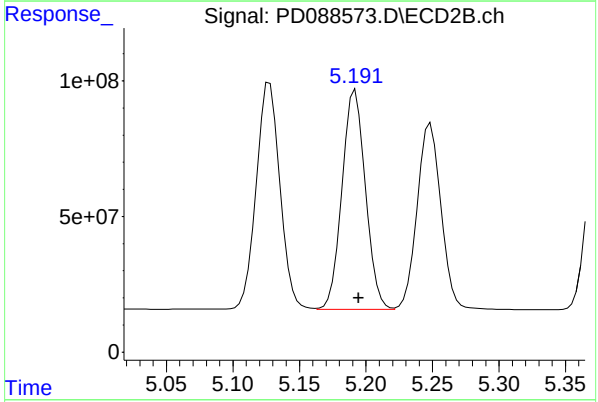
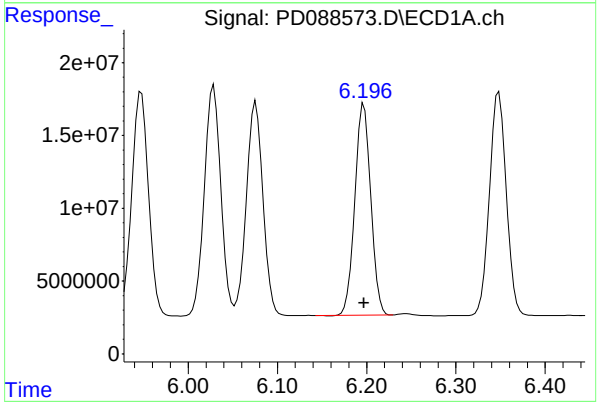
Supervised By :mohammad ahmed 05/19/2025



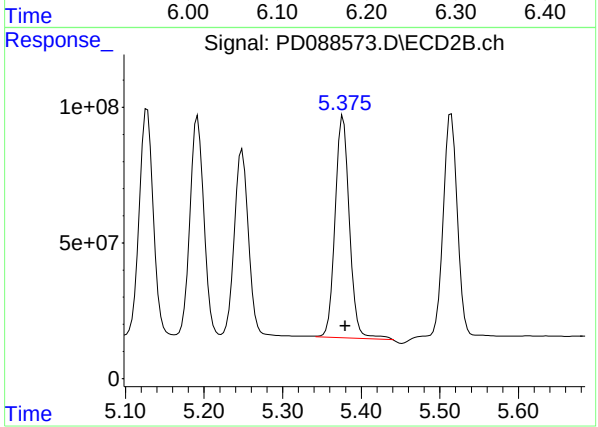
#11 alpha-Chlordane

R.T.: 5.192 min
Delta R.T.: -0.002 min
Response: 993869003
Conc: 50.70 ng/ml



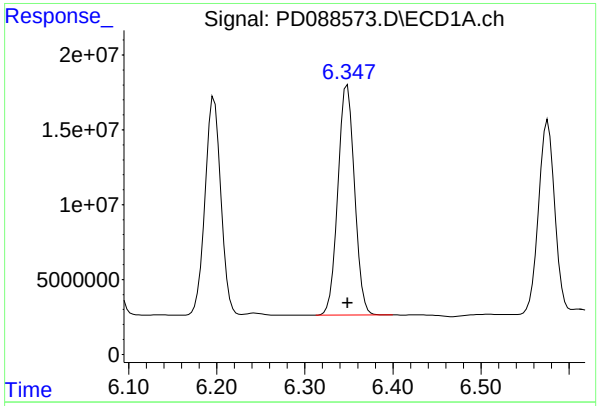
#12 4,4'-DDE

R.T.: 6.197 min
Delta R.T.: 0.000 min
Response: 179734857
Conc: 54.49 ng/ml



#12 4,4'-DDE

R.T.: 5.377 min
Delta R.T.: -0.003 min
Response: 1036863347
Conc: 52.65 ng/ml



#13 Dieldrin

R.T.: 6.348 min
Delta R.T.: 0.000 min
Response: 202107742
Conc: 56.64 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

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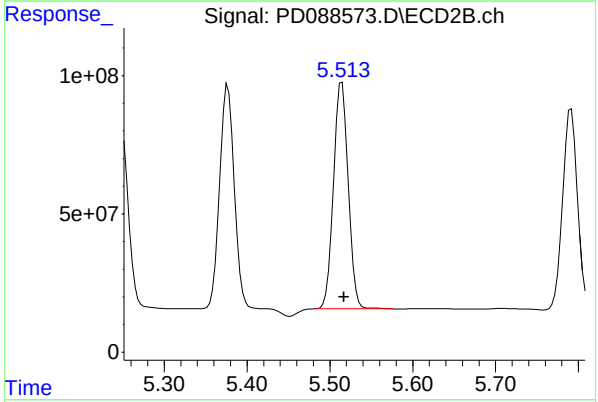
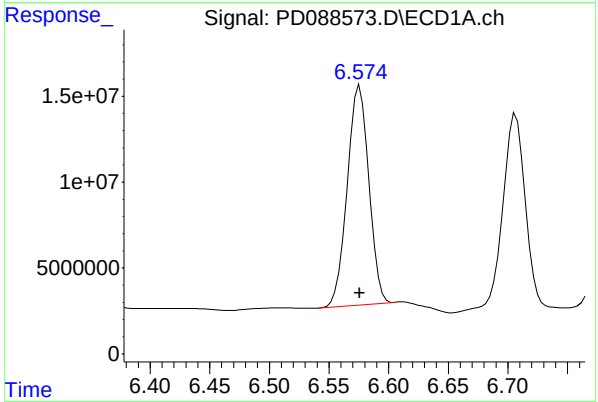
Supervised By :mohammad ahmed 05/19/2025



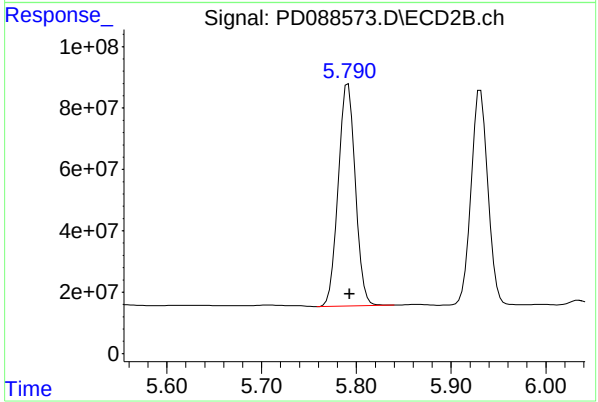
#13 Dieldrin

R.T.: 5.515 min
Delta R.T.: -0.002 min
Response: 1014154997
Conc: 50.88 ng/ml



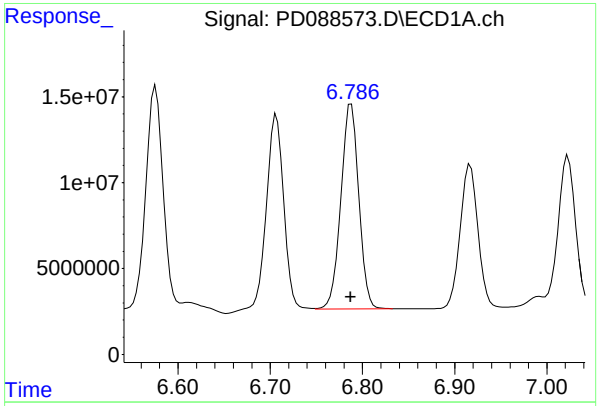
#14 Endrin

R.T.: 6.576 min
Delta R.T.: 0.000 min
Response: 160984722
Conc: 53.98 ng/ml



#14 Endrin

R.T.: 5.791 min
Delta R.T.: -0.002 min
Response: 905041760
Conc: 49.72 ng/ml



#15 Endosulfan II

R.T.: 6.788 min
Delta R.T.: 0.000 min
Response: 160404697
Conc: 51.31 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

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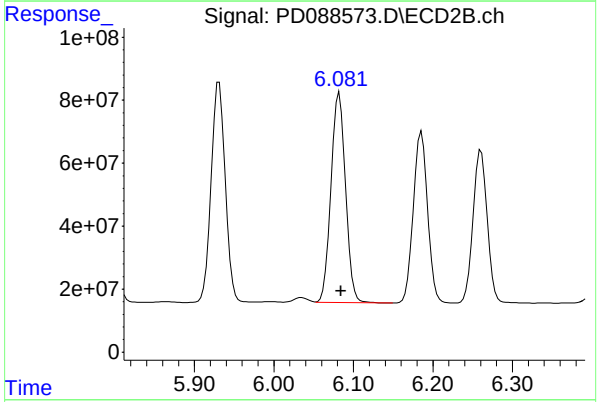
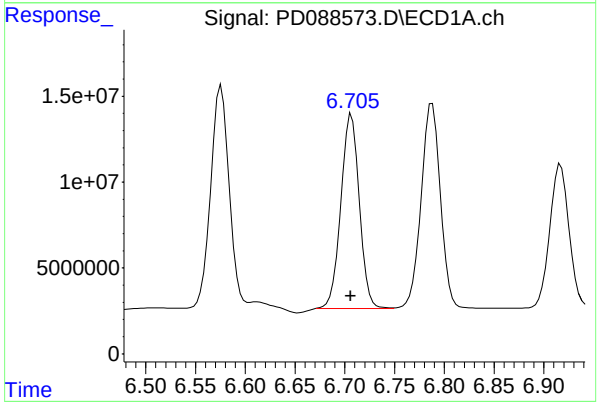


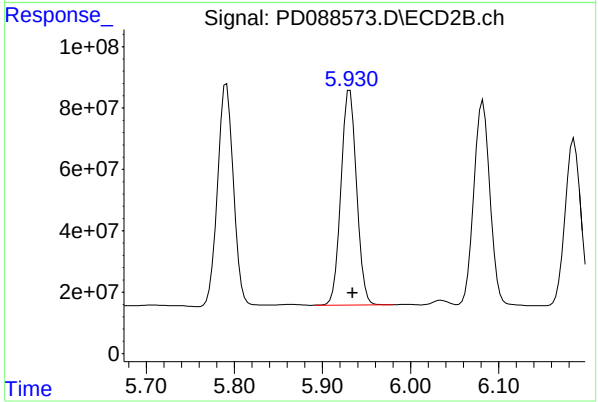
#15 Endosulfan II

R.T.: 6.082 min
Delta R.T.: -0.002 min
Response: 848819232
Conc: 48.44 ng/ml



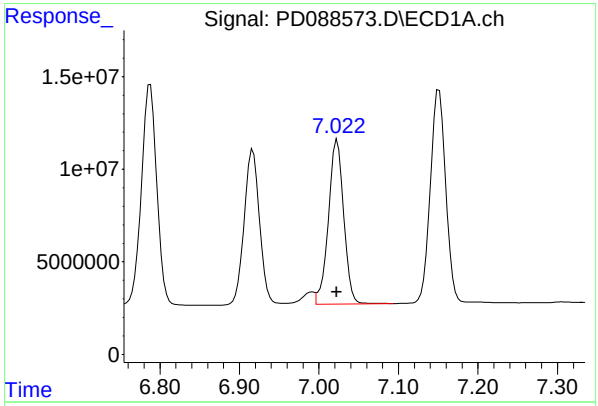
#16 4,4'-DDD

R.T.: 6.707 min
Delta R.T.: 0.000 min
Response: 146465081
Conc: 58.24 ng/ml



#16 4,4'-DDD

R.T.: 5.931 min
Delta R.T.: -0.003 min
Response: 862164221
Conc: 52.62 ng/ml



#17 4,4'-DDT

R.T.: 7.023 min
Delta R.T.: 0.000 min
Response: 118630511
Conc: 42.71 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

Manual Integrations
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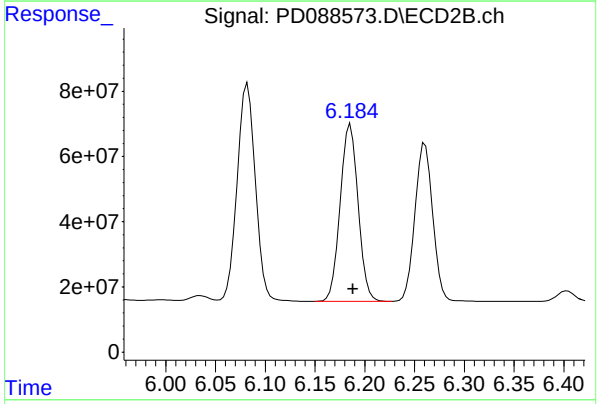
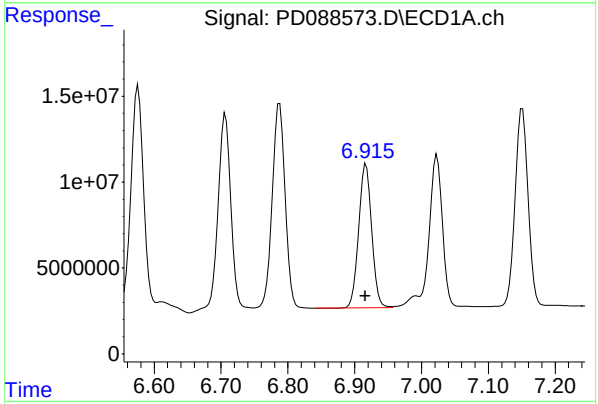
Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



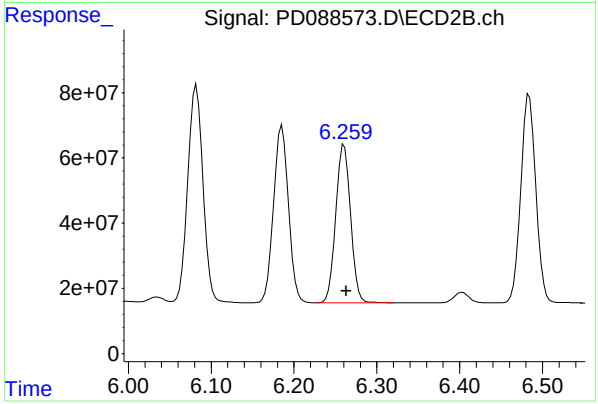
#17 4,4'-DDT

R.T.: 6.186 min
Delta R.T.: -0.002 min
Response: 682182076
Conc: 40.09 ng/ml



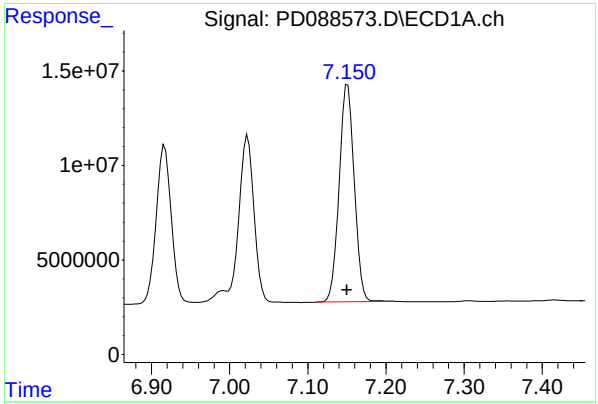
#18 Endrin aldehyde

R.T.: 6.917 min
Delta R.T.: 0.000 min
Response: 112592132
Conc: 48.78 ng/ml



#18 Endrin aldehyde

R.T.: 6.261 min
Delta R.T.: -0.002 min
Response: 602860184
Conc: 45.32 ng/ml



#19 Endosulfan Sulfate

R.T.: 7.151 min
Delta R.T.: 0.000 min
Response: 154762679
Conc: 53.81 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

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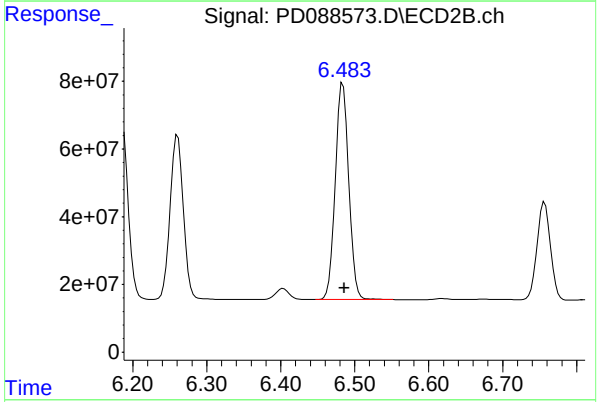
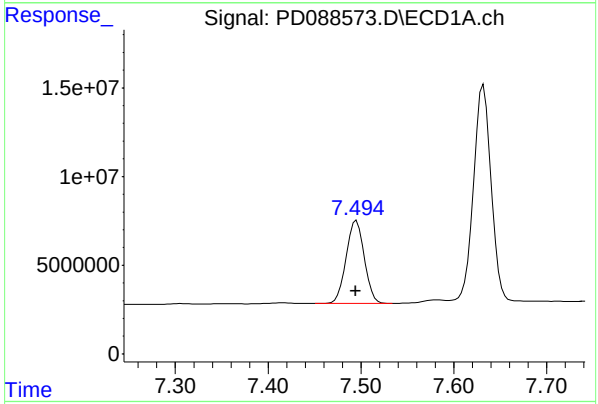
Supervised By :mohammad ahmed 05/19/2025



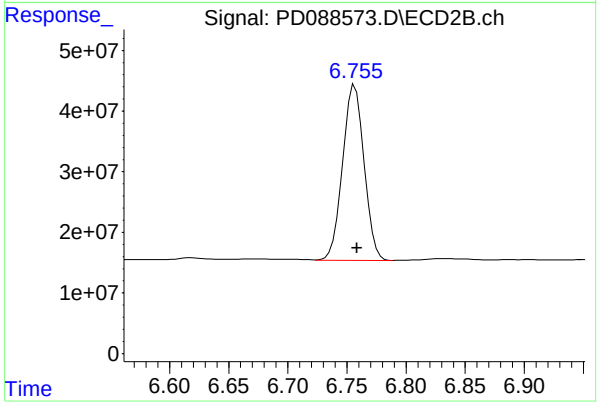
#19 Endosulfan Sulfate

R.T.: 6.484 min
Delta R.T.: -0.002 min
Response: 809893270
Conc: 47.27 ng/ml



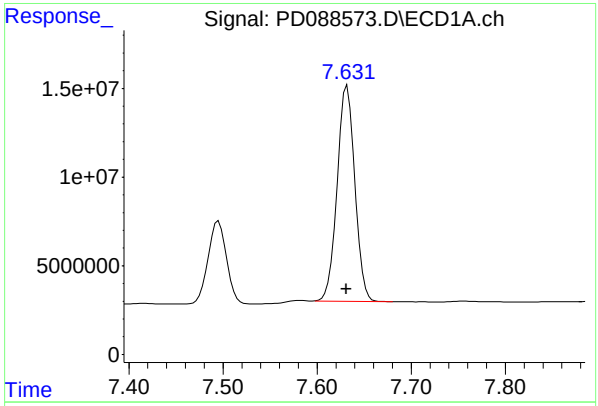
#20 Methoxychlor

R.T.: 7.495 min
Delta R.T.: 0.000 min
Response: 63495162
Conc: 42.34 ng/ml



#20 Methoxychlor

R.T.: 6.755 min
Delta R.T.: -0.003 min
Response: 365931893
Conc: 40.12 ng/ml m



#21 Endrin ketone

R.T.: 7.632 min
Delta R.T.: 0.000 min
Response: 158811903
Conc: 51.45 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

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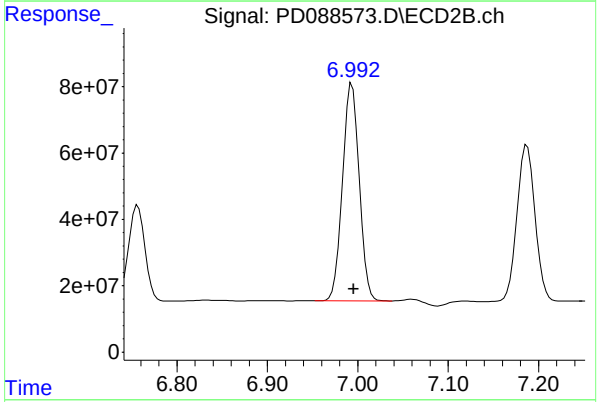
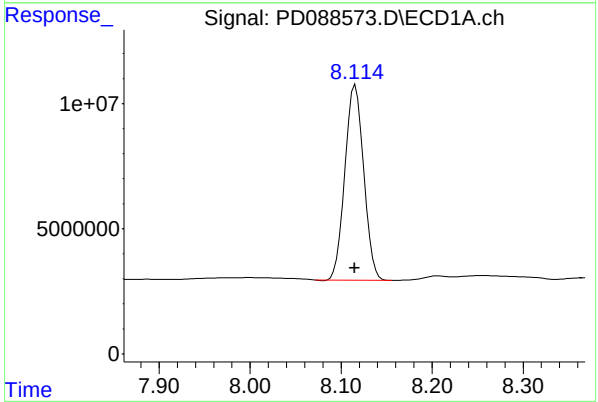


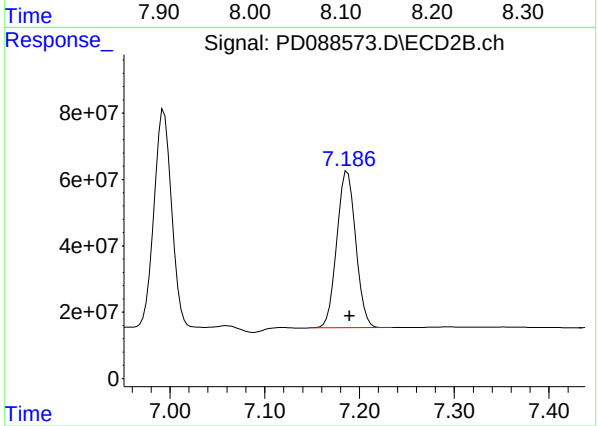
#21 Endrin ketone

R.T.: 6.994 min
Delta R.T.: -0.001 min
Response: 844280216
Conc: 45.14 ng/ml



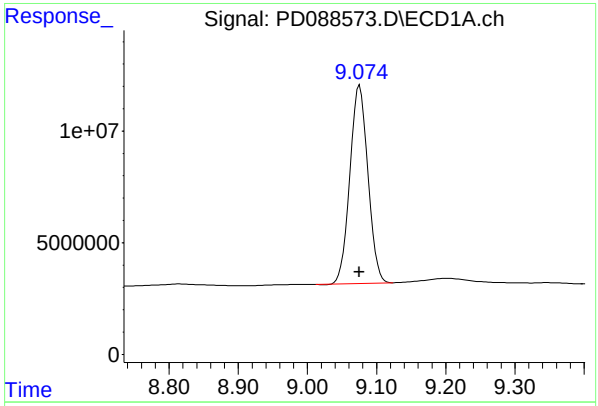
#22 Mirex

R.T.: 8.116 min
Delta R.T.: 0.000 min
Response: 112568164
Conc: 47.94 ng/ml



#22 Mirex

R.T.: 7.187 min
Delta R.T.: -0.002 min
Response: 652188709
Conc: 44.00 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.075 min
Delta R.T.: 0.000 min
Response: 160748737
Conc: 48.59 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

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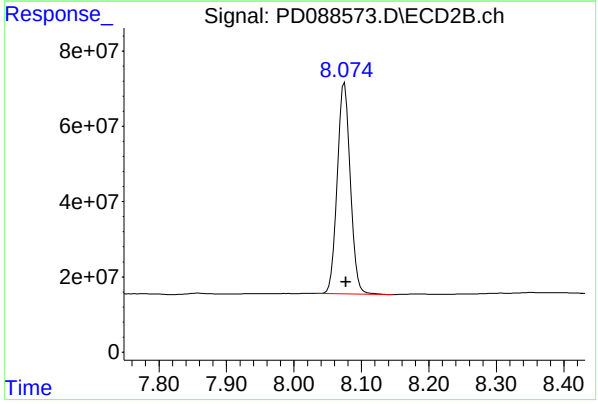
Supervised By :mohammad ahmed 05/19/2025



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.002 min
Response: 760020389
Conc: 41.13 ng/ml

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

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Continuing Calib Date: 05/19/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 16:02 **Initial Calibration Time(s):** 11:31 12:25

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.08	9.08	8.98	9.18	0.00
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
alpha-BHC	4.00	4.00	3.90	4.10	0.00
beta-BHC	4.52	4.52	4.42	4.62	0.00
delta-BHC	4.77	4.77	4.67	4.87	0.01
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.93	4.93	4.83	5.03	0.00
Aldrin	5.27	5.27	5.17	5.37	0.00
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.00
Endosulfan I	6.08	6.08	5.98	6.18	0.00
Dieldrin	6.35	6.35	6.25	6.45	0.00
4,4'-DDE	6.20	6.20	6.10	6.30	0.00
Endrin	6.58	6.58	6.48	6.68	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	7.15	7.15	7.05	7.25	0.00
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	7.63	7.63	7.53	7.73	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.00
alpha-Chlordane	6.03	6.03	5.93	6.13	0.00
gamma-Chlordane	5.95	5.95	5.85	6.05	0.00

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

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Continuing Calib Date: 05/19/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 16:02 **Initial Calibration Time(s):** 11:31 12:25

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.08	8.08	7.98	8.18	0.00
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
alpha-BHC	3.39	3.39	3.29	3.49	0.00
beta-BHC	4.03	4.03	3.93	4.13	0.00
delta-BHC	4.26	4.26	4.16	4.36	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.09	4.09	3.99	4.19	0.00
Aldrin	4.37	4.37	4.27	4.47	0.00
Heptachlor epoxide	4.88	4.88	4.78	4.98	0.00
Endosulfan I	5.25	5.25	5.15	5.35	0.00
Dieldrin	5.52	5.52	5.42	5.62	0.01
4,4'-DDE	5.38	5.38	5.28	5.48	0.00
Endrin	5.79	5.79	5.69	5.89	0.00
Endosulfan II	6.08	6.08	5.98	6.18	0.00
4,4'-DDD	5.93	5.93	5.83	6.03	0.00
Endosulfan sulfate	6.49	6.49	6.39	6.59	0.00
4,4'-DDT	6.19	6.19	6.09	6.29	0.00
Methoxychlor	6.76	6.76	6.66	6.86	0.00
Endrin ketone	6.99	7.00	6.90	7.10	0.01
Endrin aldehyde	6.26	6.26	6.16	6.36	0.00
alpha-Chlordane	5.19	5.19	5.09	5.29	0.00
gamma-Chlordane	5.13	5.13	5.03	5.23	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL06 **Date Analyzed:** 05/19/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088606.D **Time Analyzed:** 16:02

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.708	6.608	6.808	51.070	50.000	2.1
4,4'-DDE	6.198	6.098	6.298	50.880	50.000	1.8
4,4'-DDT	7.024	6.923	7.123	51.080	50.000	2.2
Aldrin	5.273	5.173	5.373	51.030	50.000	2.1
alpha-BHC	4.000	3.900	4.100	51.790	50.000	3.6
alpha-Chlordane	6.029	5.930	6.130	50.500	50.000	1.0
beta-BHC	4.517	4.417	4.617	49.960	50.000	-0.1
Decachlorobiphenyl	9.078	8.977	9.177	49.150	50.000	-1.7
delta-BHC	4.765	4.666	4.866	51.990	50.000	4.0
Dieldrin	6.349	6.250	6.450	50.900	50.000	1.8
Endosulfan I	6.077	5.977	6.177	50.470	50.000	0.9
Endosulfan II	6.789	6.688	6.888	49.870	50.000	-0.3
Endosulfan sulfate	7.152	7.052	7.252	50.180	50.000	0.4
Endrin	6.577	6.477	6.677	50.850	50.000	1.7
Endrin aldehyde	6.917	6.817	7.017	49.690	50.000	-0.6
Endrin ketone	7.633	7.533	7.733	50.580	50.000	1.2
gamma-BHC (Lindane)	4.332	4.232	4.432	51.350	50.000	2.7
gamma-Chlordane	5.948	5.848	6.048	50.690	50.000	1.4
Heptachlor	4.931	4.832	5.032	51.060	50.000	2.1
Heptachlor epoxide	5.693	5.593	5.793	50.230	50.000	0.5
Methoxychlor	7.496	7.395	7.595	49.990	50.000	0.0
Tetrachloro-m-xylene	3.551	3.451	3.651	49.970	50.000	-0.1

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CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL06 **Date Analyzed:** 05/19/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088606.D **Time Analyzed:** 16:02

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.932	5.833	6.033	49.640	50.000	-0.7
4,4'-DDE	5.378	5.278	5.478	49.690	50.000	-0.6
4,4'-DDT	6.187	6.087	6.287	50.890	50.000	1.8
Aldrin	4.371	4.271	4.471	49.980	50.000	0.0
alpha-BHC	3.394	3.294	3.494	50.130	50.000	0.3
alpha-Chlordane	5.193	5.094	5.294	49.570	50.000	-0.9
beta-BHC	4.027	3.927	4.127	49.440	50.000	-1.1
Decachlorobiphenyl	8.076	7.977	8.177	49.210	50.000	-1.6
delta-BHC	4.264	4.164	4.364	49.960	50.000	-0.1
Dieldrin	5.515	5.416	5.616	49.850	50.000	-0.3
Endosulfan I	5.249	5.150	5.350	49.190	50.000	-1.6
Endosulfan II	6.083	5.984	6.184	49.630	50.000	-0.7
Endosulfan sulfate	6.485	6.386	6.586	49.560	50.000	-0.9
Endrin	5.792	5.692	5.892	49.830	50.000	-0.3
Endrin aldehyde	6.261	6.162	6.362	49.060	50.000	-1.9
Endrin ketone	6.994	6.895	7.095	49.850	50.000	-0.3
gamma-BHC (Lindane)	3.731	3.631	3.831	50.050	50.000	0.1
gamma-Chlordane	5.128	5.029	5.229	49.690	50.000	-0.6
Heptachlor	4.085	3.985	4.185	50.020	50.000	0.0
Heptachlor epoxide	4.875	4.775	4.975	49.690	50.000	-0.6
Methoxychlor	6.757	6.658	6.858	50.210	50.000	0.4
Tetrachloro-m-xylene	2.882	2.782	2.982	49.850	50.000	-0.3

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088606.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 16:02
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:39:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.551	2.882	108.1E6	754.1E6	49.973	49.852
28)	SA Decachlor...	9.078	8.076	168.2E6	898.3E6	49.152	49.205
	Target Compounds						
2)	A alpha-BHC	4.000	3.394	247.4E6	1198.4E6	51.785	50.134
3)	MA gamma-BHC...	4.332	3.731	236.4E6	1109.4E6	51.354	50.050
4)	MA Heptachlor	4.931	4.085	228.3E6	1123.2E6	51.059	50.019
5)	MB Aldrin	5.273	4.371	224.2E6	1096.0E6	51.027	49.977
6)	B beta-BHC	4.517	4.027	90083346	481.6E6	49.959	49.439
7)	B delta-BHC	4.765	4.264	219.7E6	1113.8E6	51.989	49.961
8)	B Heptachlo...	5.693	4.875	199.4E6	987.4E6	50.225	49.691
9)	A Endosulfan I	6.077	5.249	189.9E6	933.5E6	50.466	49.189
10)	B gamma-Chl...	5.948	5.128	202.2E6	1060.0E6	50.695	49.690
11)	B alpha-Chl...	6.029	5.193	202.3E6	1022.4E6	50.501	49.571
12)	B 4,4'-DDE	6.198	5.378	182.6E6	1038.7E6	50.882	49.691
13)	MA Dieldrin	6.349	5.515	204.2E6	1049.0E6	50.902	49.847
14)	MA Endrin	6.577	5.792	173.7E6	961.0E6	50.852	49.833
15)	B Endosulfa...	6.789	6.083	171.7E6	909.3E6	49.873	49.631
16)	A 4,4'-DDD	6.708	5.932	142.2E6	863.3E6	51.075	49.639
17)	MA 4,4'-DDT	7.024	6.187	159.5E6	923.0E6	51.078	50.887
18)	B Endrin al...	6.917	6.261	127.9E6	683.3E6	49.686	49.059
19)	B Endosulfa...	7.152	6.485	160.7E6	880.0E6	50.181	49.563
20)	A Methoxychlor	7.496	6.757	83511441	480.7E6	49.990	50.210
21)	B Endrin ke...	7.633	6.994	173.1E6	964.4E6	50.577	49.848
22)	Mirex	8.117	7.188	128.0E6	746.3E6	49.279	49.094

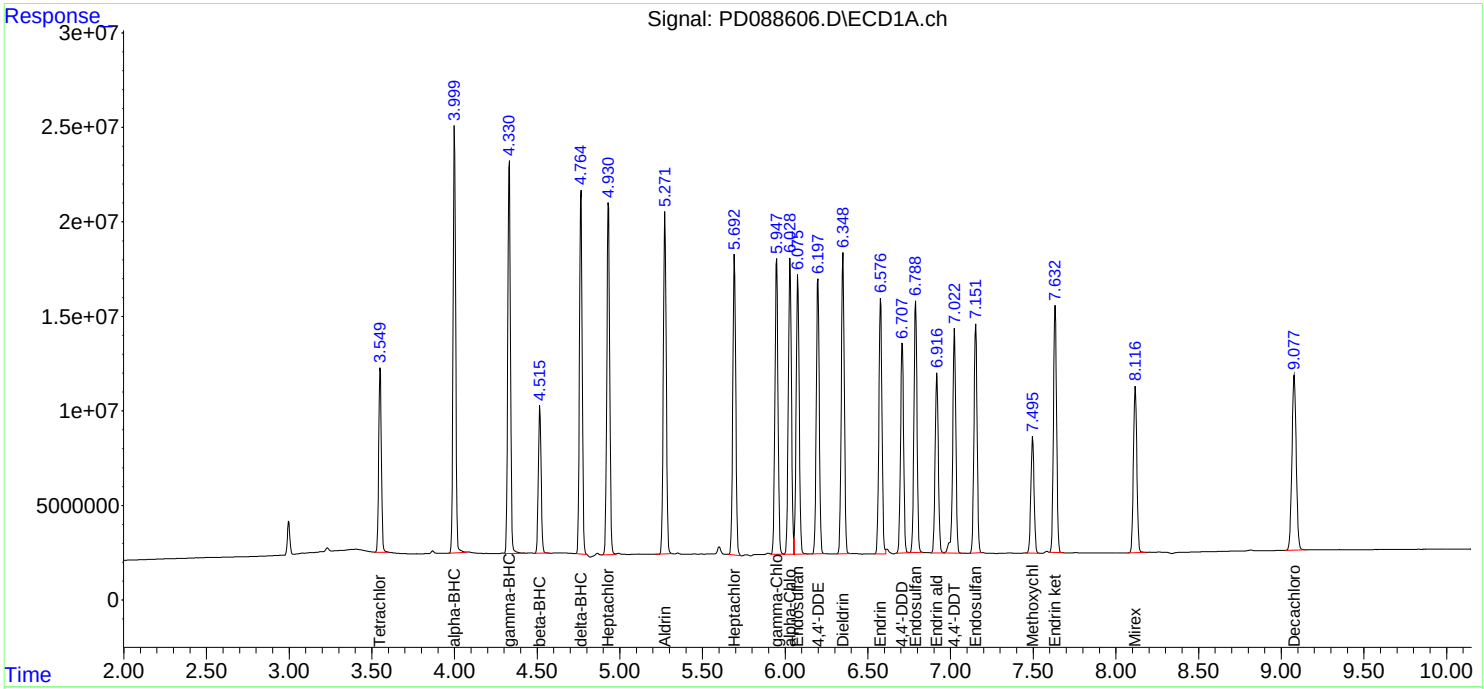
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

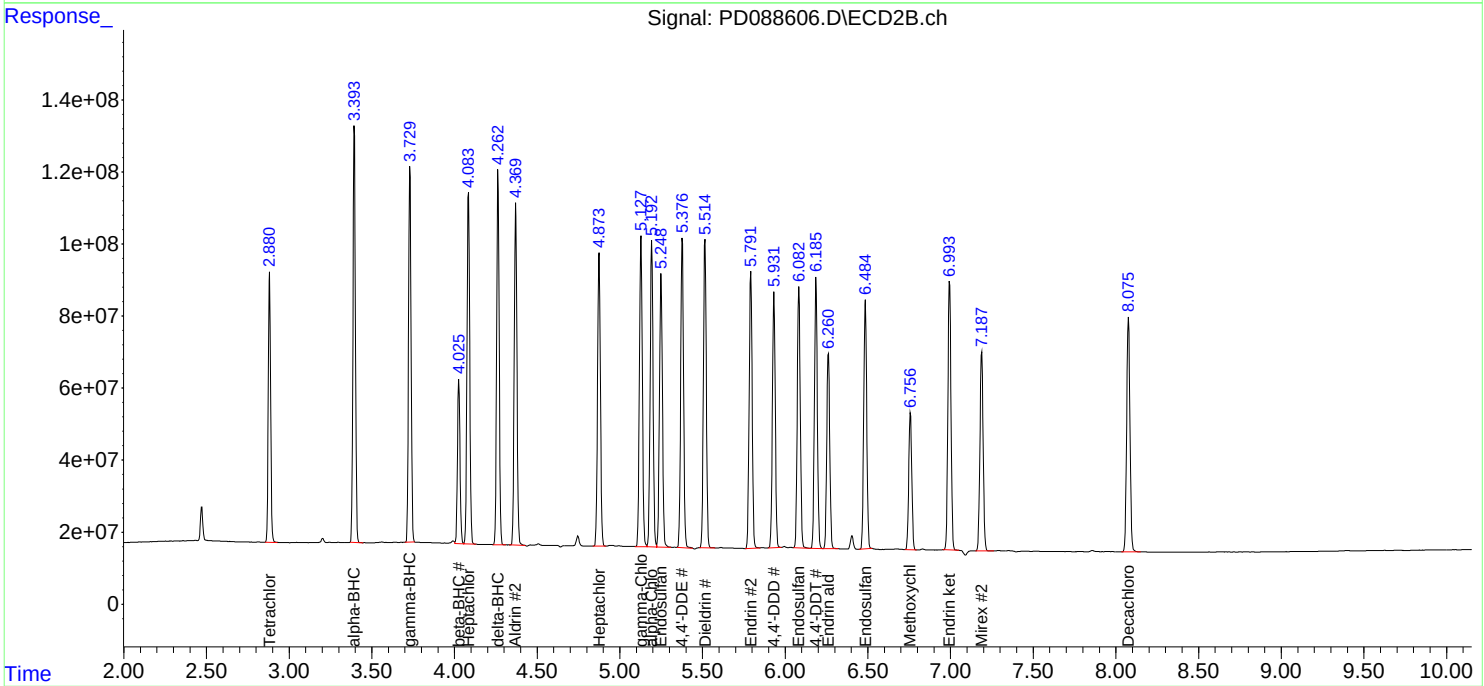
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088606.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 16:02
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

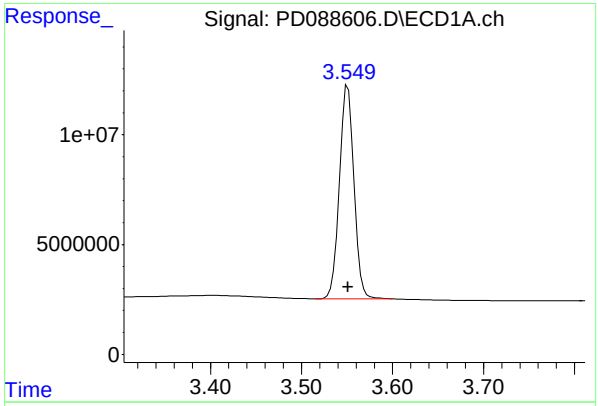
Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:39:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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



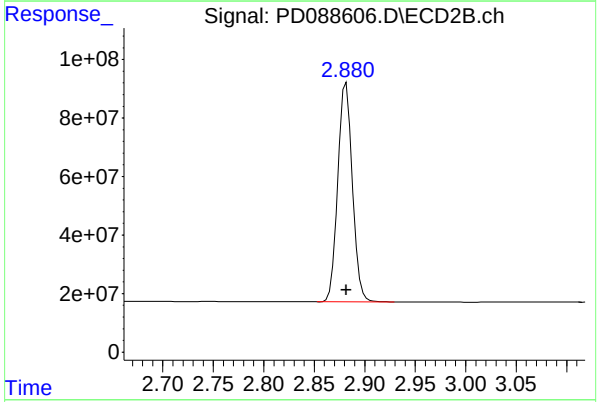




#1 Tetrachloro-m-xylene

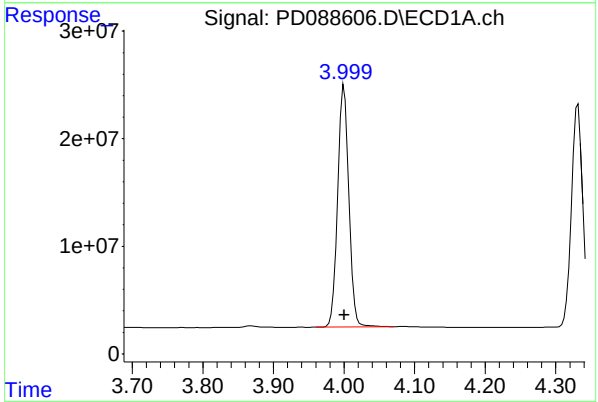
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 108128799
Conc: 49.97 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



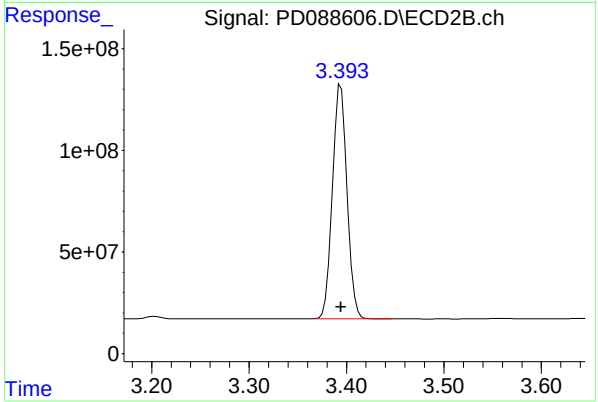
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 754101196
Conc: 49.85 ng/ml



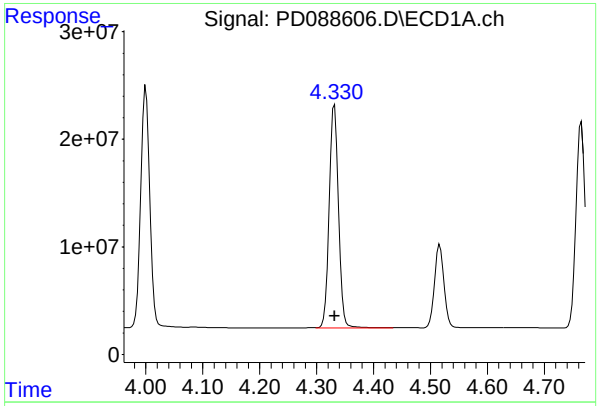
#2 alpha-BHC

R.T.: 4.000 min
Delta R.T.: 0.000 min
Response: 247356911
Conc: 51.79 ng/ml



#2 alpha-BHC

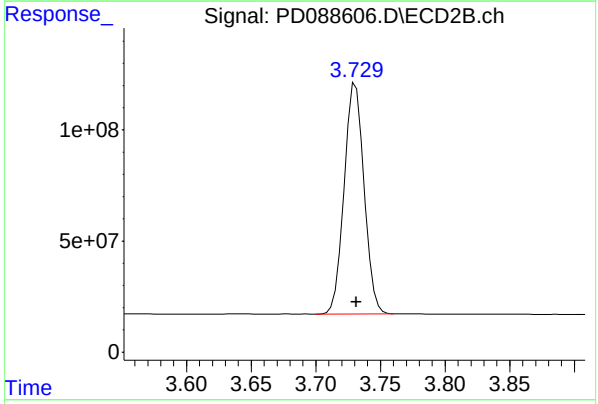
R.T.: 3.394 min
Delta R.T.: 0.000 min
Response: 1198389866
Conc: 50.13 ng/ml



#3 gamma-BHC (Lindane)

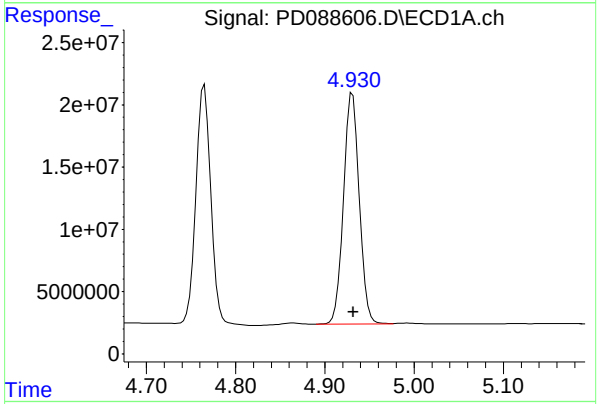
R.T.: 4.332 min
Delta R.T.: 0.000 min
Response: 236368625
Conc: 51.35 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



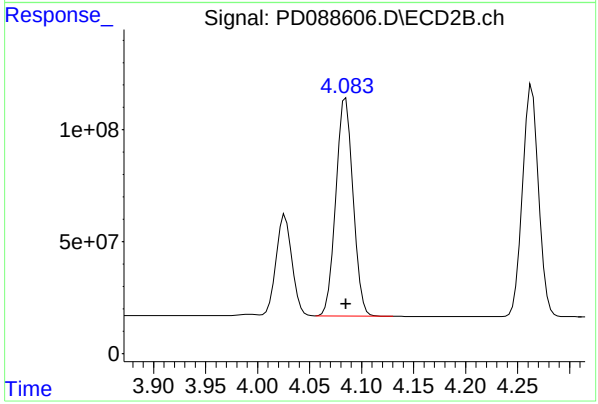
#3 gamma-BHC (Lindane)

R.T.: 3.731 min
Delta R.T.: 0.000 min
Response: 1109388444
Conc: 50.05 ng/ml



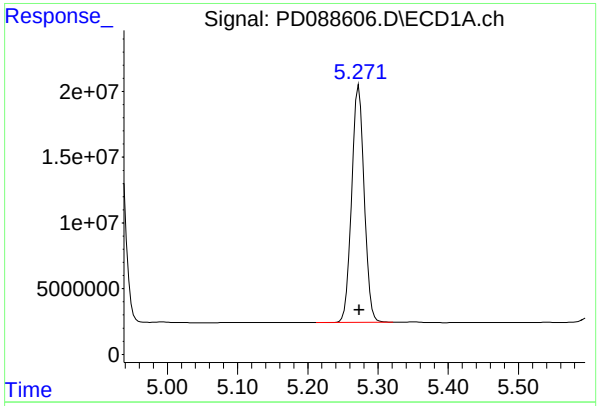
#4 Heptachlor

R.T.: 4.931 min
Delta R.T.: 0.000 min
Response: 228294484
Conc: 51.06 ng/ml



#4 Heptachlor

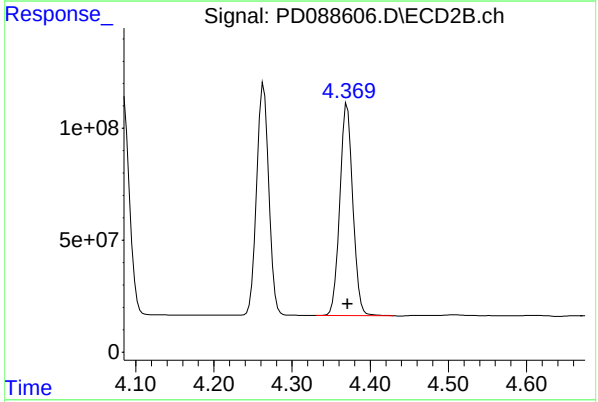
R.T.: 4.085 min
Delta R.T.: 0.000 min
Response: 1123178339
Conc: 50.02 ng/ml



#5 Aldrin

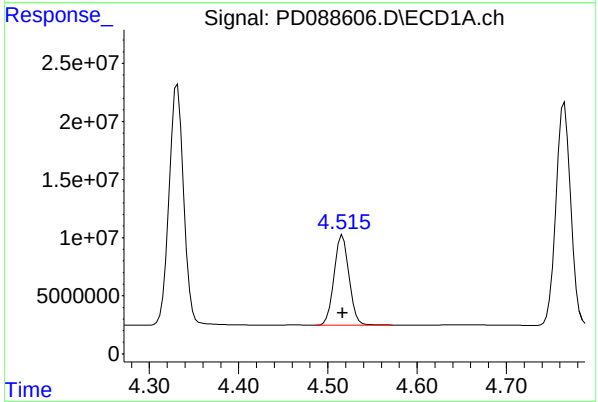
R.T.: 5.273 min
Delta R.T.: 0.000 min
Response: 224239733
Conc: 51.03 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



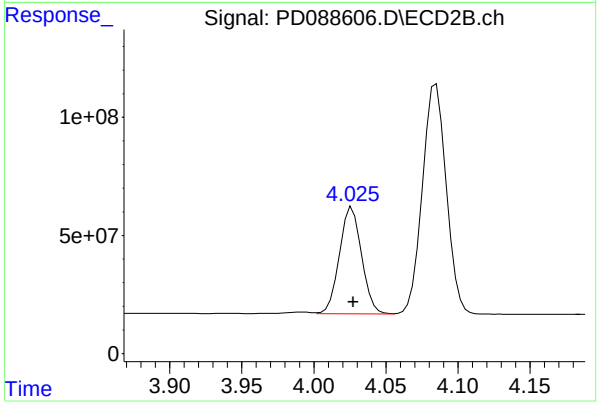
#5 Aldrin

R.T.: 4.371 min
Delta R.T.: 0.000 min
Response: 1095982931
Conc: 49.98 ng/ml



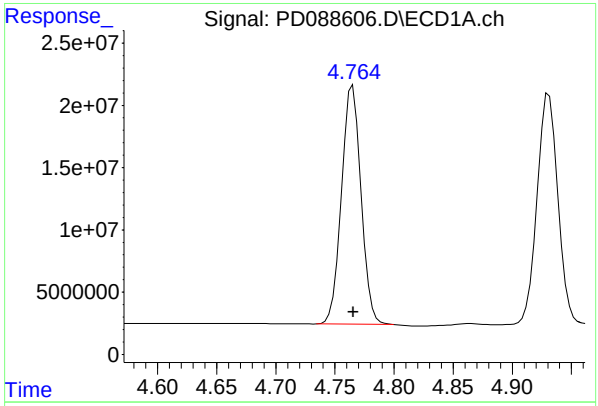
#6 beta-BHC

R.T.: 4.517 min
Delta R.T.: 0.000 min
Response: 90083346
Conc: 49.96 ng/ml



#6 beta-BHC

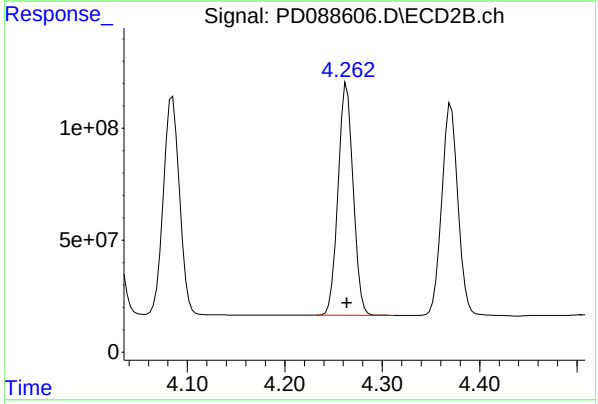
R.T.: 4.027 min
Delta R.T.: 0.000 min
Response: 481628989
Conc: 49.44 ng/ml



#7 delta-BHC

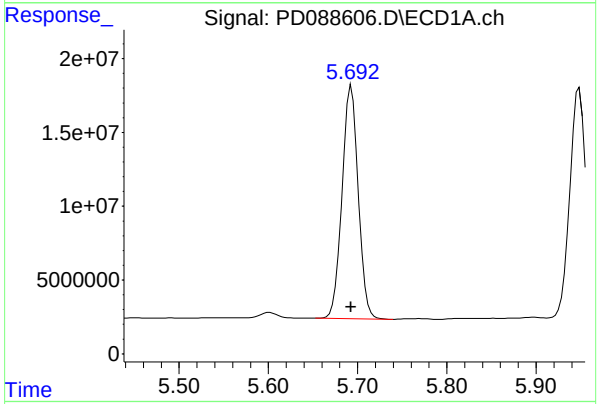
R.T.: 4.765 min
Delta R.T.: 0.000 min
Response: 219712500
Conc: 51.99 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



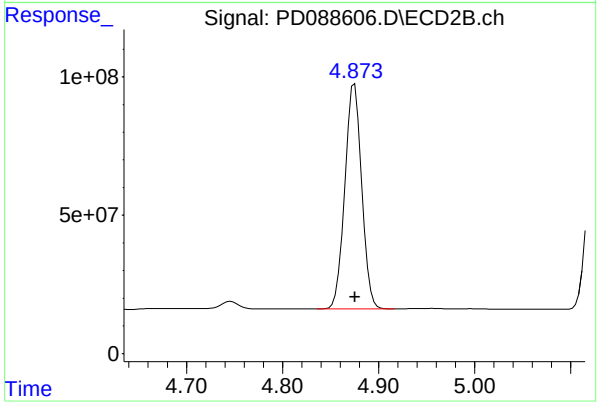
#7 delta-BHC

R.T.: 4.264 min
Delta R.T.: 0.000 min
Response: 1113840437
Conc: 49.96 ng/ml



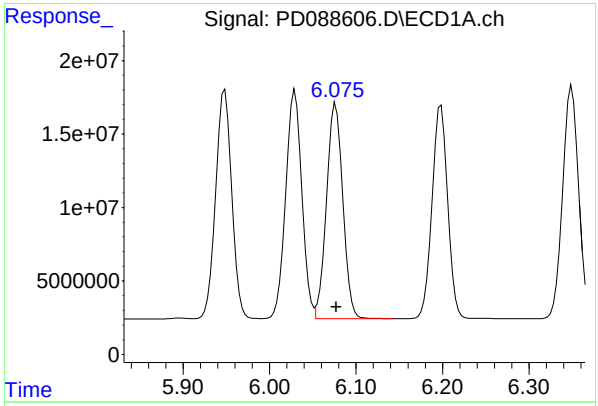
#8 Heptachlor epoxide

R.T.: 5.693 min
Delta R.T.: 0.000 min
Response: 199358019
Conc: 50.23 ng/ml



#8 Heptachlor epoxide

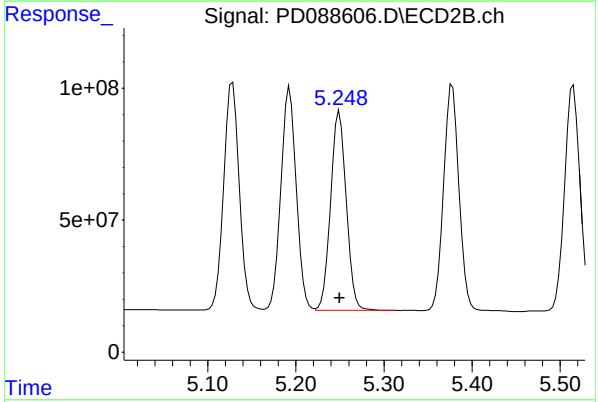
R.T.: 4.875 min
Delta R.T.: 0.000 min
Response: 987429708
Conc: 49.69 ng/ml



#9 Endosulfan I

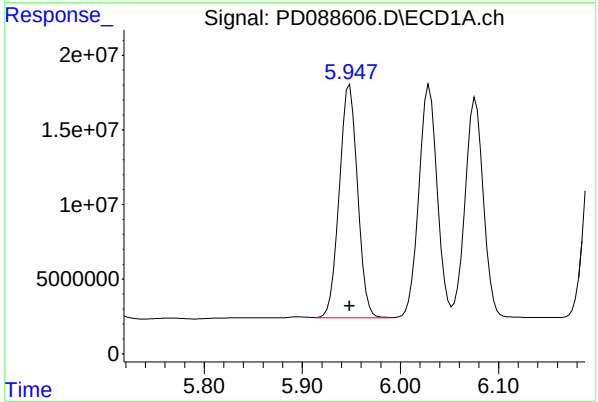
R.T.: 6.077 min
Delta R.T.: 0.000 min
Response: 189898717
Conc: 50.47 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



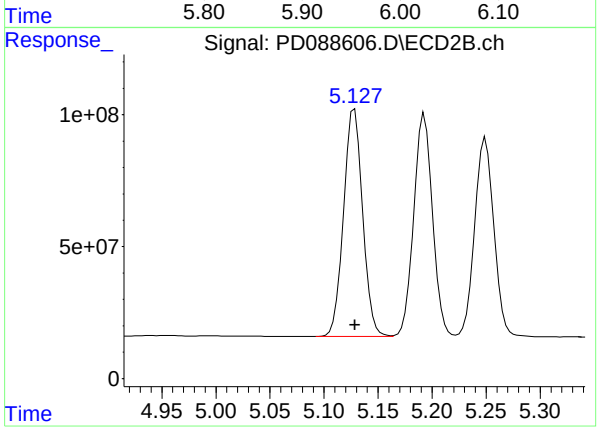
#9 Endosulfan I

R.T.: 5.249 min
Delta R.T.: 0.000 min
Response: 933527006
Conc: 49.19 ng/ml



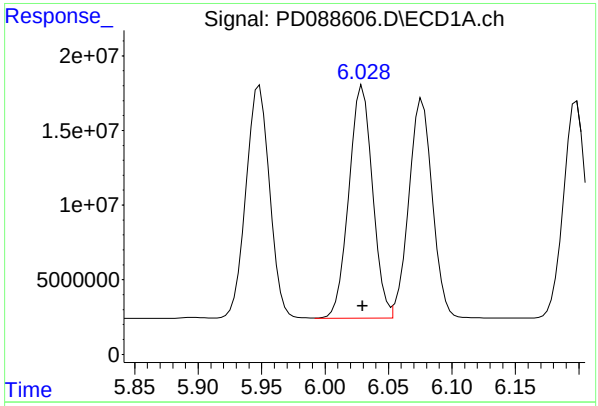
#10 gamma-Chlordane

R.T.: 5.948 min
Delta R.T.: 0.000 min
Response: 202218214
Conc: 50.69 ng/ml



#10 gamma-Chlordane

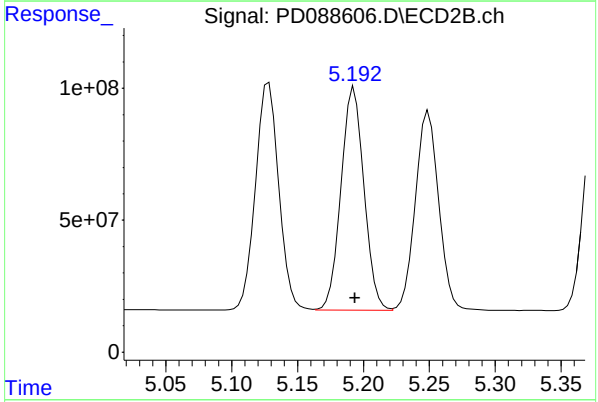
R.T.: 5.128 min
Delta R.T.: 0.000 min
Response: 1059985082
Conc: 49.69 ng/ml



#11 alpha-Chlordane

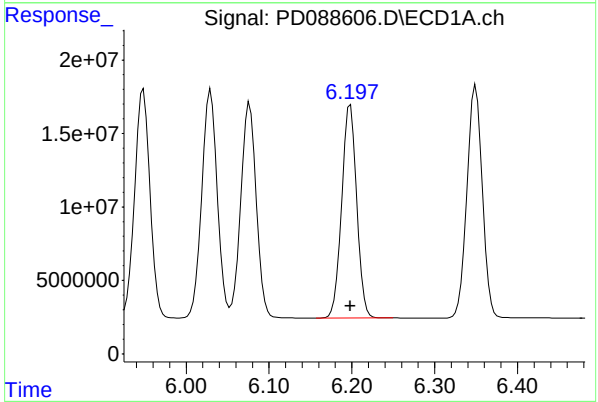
R.T.: 6.029 min
Delta R.T.: 0.000 min
Response: 202321071
Conc: 50.50 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



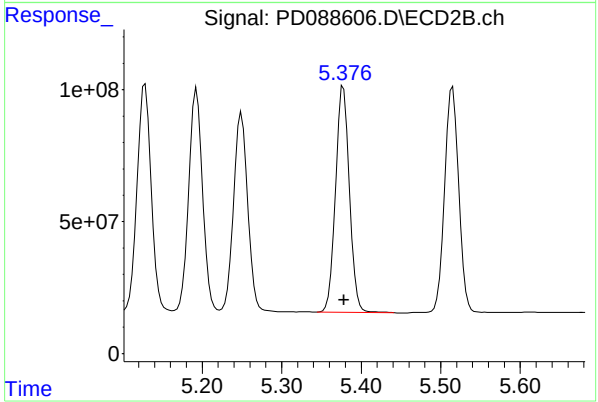
#11 alpha-Chlordane

R.T.: 5.193 min
Delta R.T.: 0.000 min
Response: 1022395912
Conc: 49.57 ng/ml



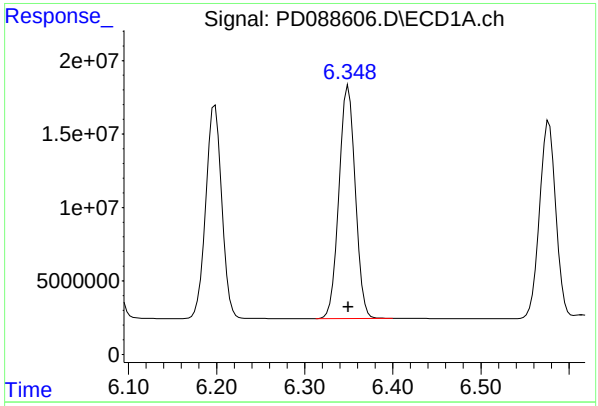
#12 4,4'-DDE

R.T.: 6.198 min
Delta R.T.: 0.000 min
Response: 182635849
Conc: 50.88 ng/ml



#12 4,4'-DDE

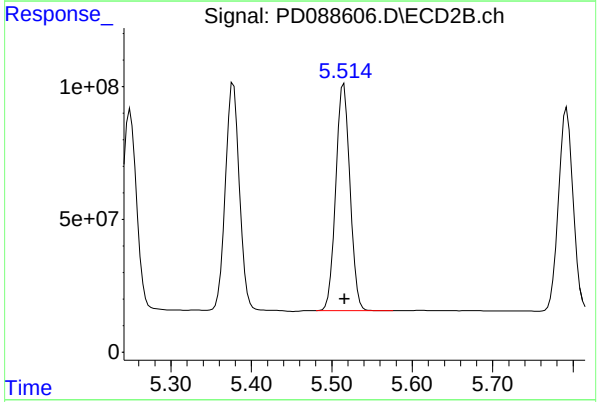
R.T.: 5.378 min
Delta R.T.: 0.000 min
Response: 1038669293
Conc: 49.69 ng/ml



#13 Dieldrin

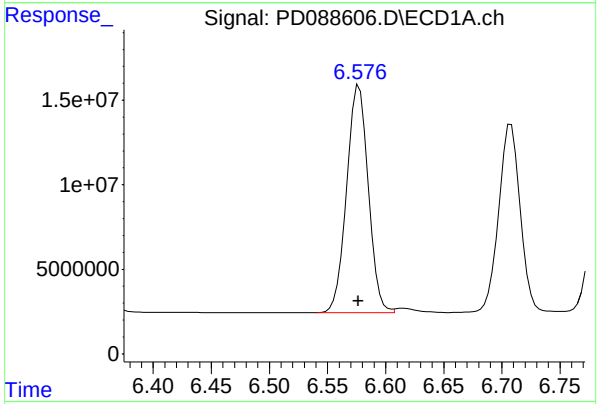
R.T.: 6.349 min
Delta R.T.: 0.000 min
Response: 204203813
Conc: 50.90 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



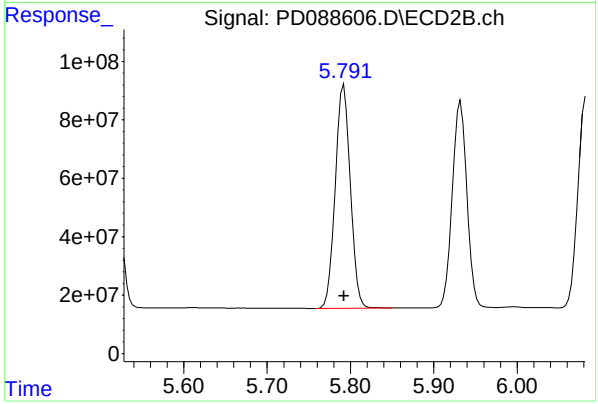
#13 Dieldrin

R.T.: 5.515 min
Delta R.T.: 0.000 min
Response: 1048976782
Conc: 49.85 ng/ml



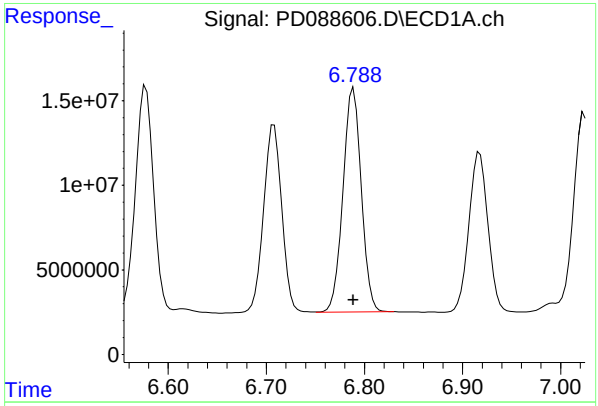
#14 Endrin

R.T.: 6.577 min
Delta R.T.: 0.000 min
Response: 173667466
Conc: 50.85 ng/ml



#14 Endrin

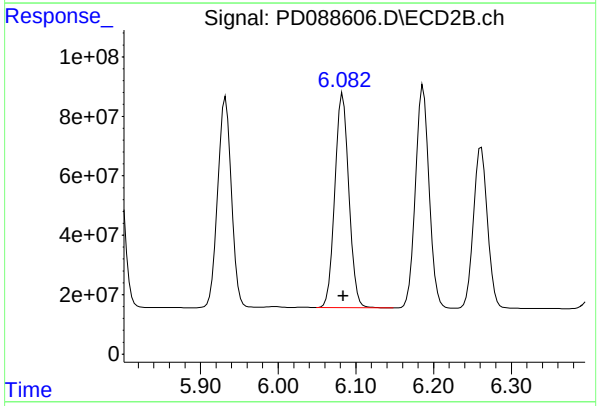
R.T.: 5.792 min
Delta R.T.: 0.000 min
Response: 960972816
Conc: 49.83 ng/ml



#15 Endosulfan II

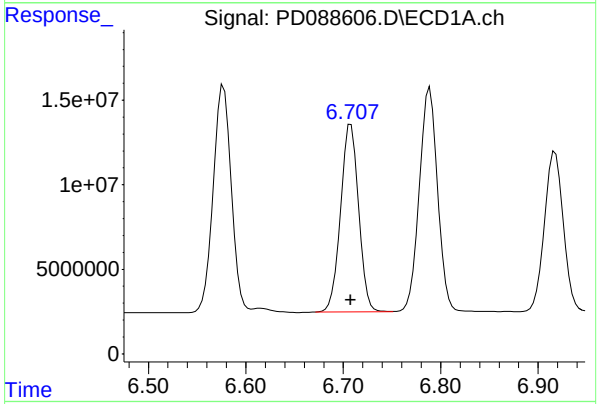
R.T.: 6.789 min
Delta R.T.: 0.000 min
Response: 171743491
Conc: 49.87 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



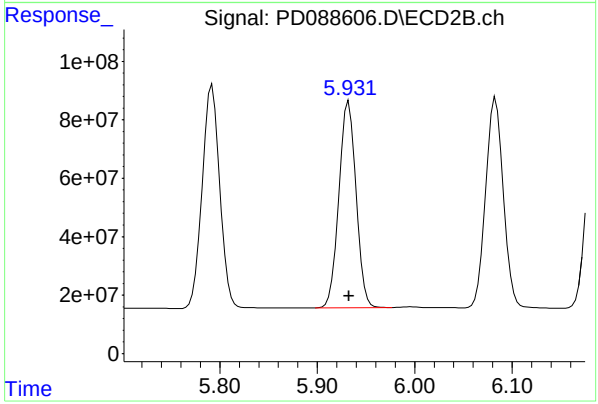
#15 Endosulfan II

R.T.: 6.083 min
Delta R.T.: 0.000 min
Response: 909335863
Conc: 49.63 ng/ml



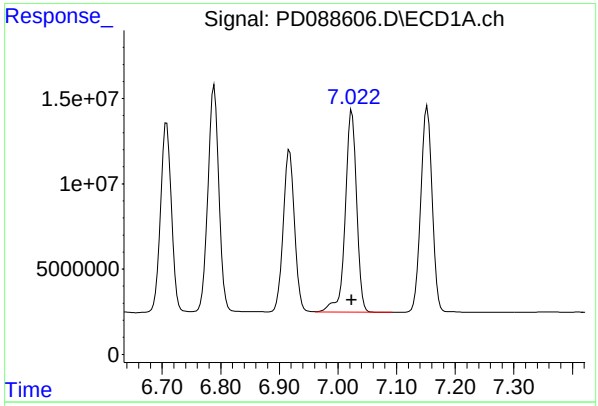
#16 4,4'-DDD

R.T.: 6.708 min
Delta R.T.: 0.000 min
Response: 142248852
Conc: 51.07 ng/ml



#16 4,4'-DDD

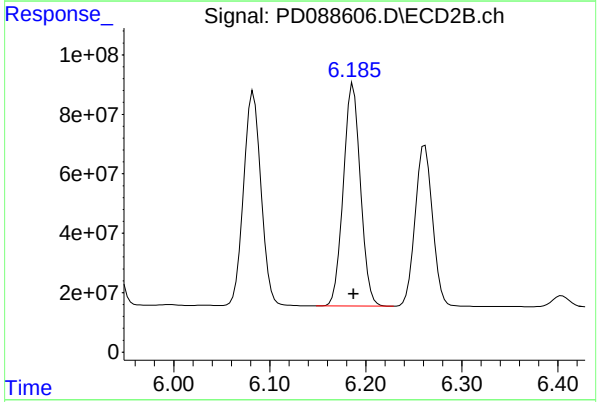
R.T.: 5.932 min
Delta R.T.: 0.000 min
Response: 863338995
Conc: 49.64 ng/ml



#17 4,4'-DDT

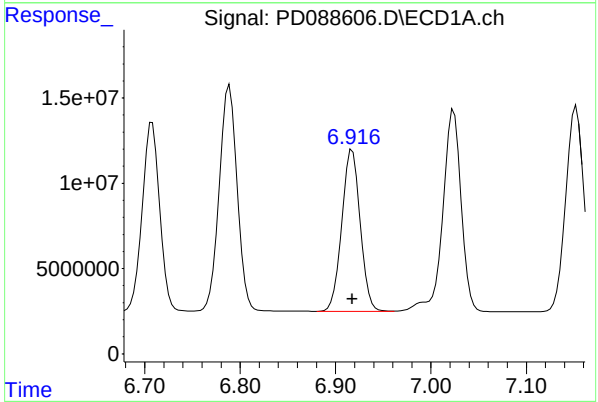
R.T.: 7.024 min
Delta R.T.: 0.000 min
Response: 159468486
Conc: 51.08 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



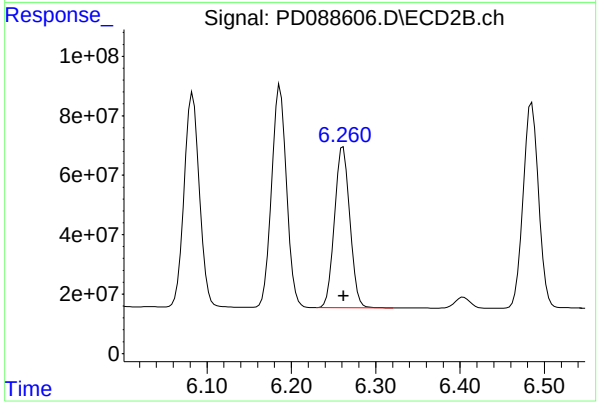
#17 4,4'-DDT

R.T.: 6.187 min
Delta R.T.: 0.000 min
Response: 922952512
Conc: 50.89 ng/ml



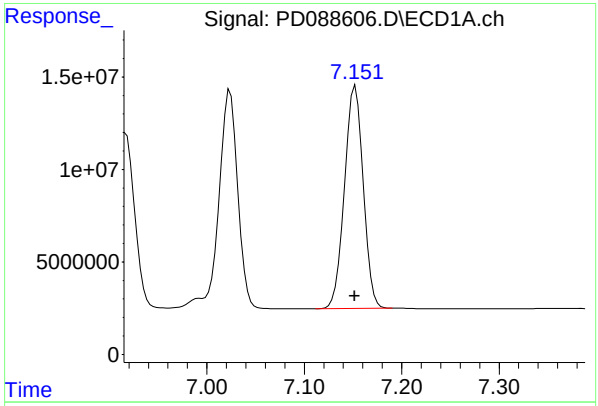
#18 Endrin aldehyde

R.T.: 6.917 min
Delta R.T.: 0.000 min
Response: 127922613
Conc: 49.69 ng/ml



#18 Endrin aldehyde

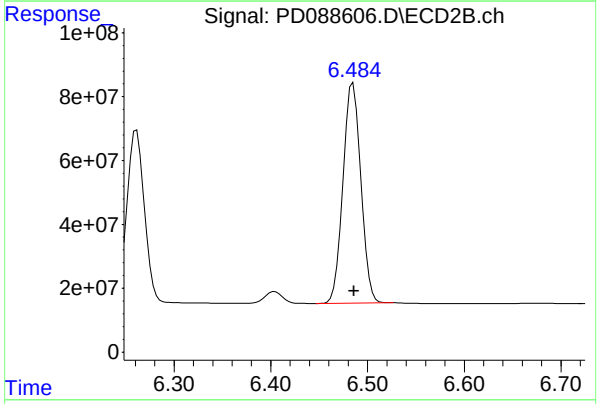
R.T.: 6.261 min
Delta R.T.: 0.000 min
Response: 683324327
Conc: 49.06 ng/ml



#19 Endosulfan Sulfate

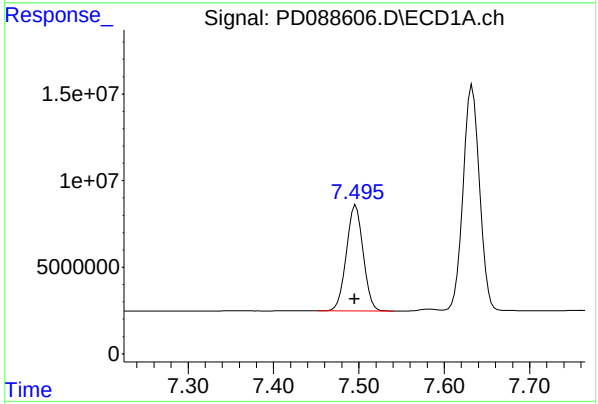
R.T.: 7.152 min
Delta R.T.: 0.000 min
Response: 160734639
Conc: 50.18 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



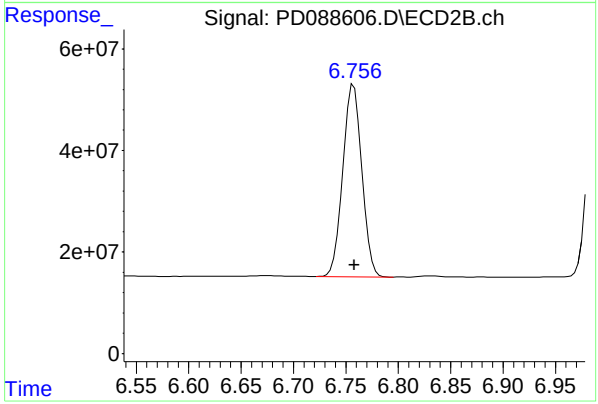
#19 Endosulfan Sulfate

R.T.: 6.485 min
Delta R.T.: 0.000 min
Response: 880029466
Conc: 49.56 ng/ml



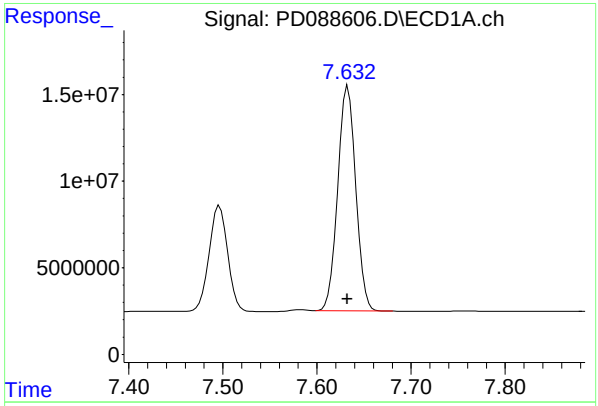
#20 Methoxychlor

R.T.: 7.496 min
Delta R.T.: 0.001 min
Response: 83511441
Conc: 49.99 ng/ml



#20 Methoxychlor

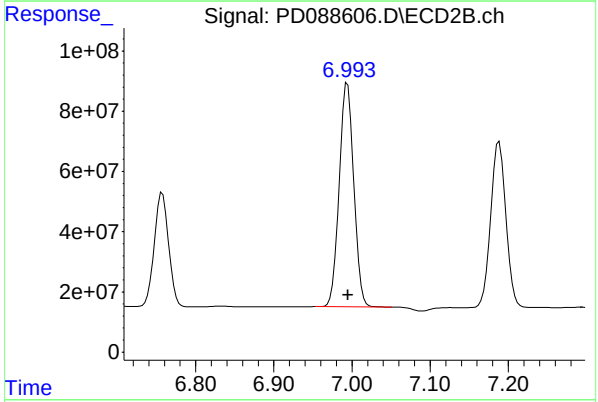
R.T.: 6.757 min
Delta R.T.: 0.000 min
Response: 480749513
Conc: 50.21 ng/ml



#21 Endrin ketone

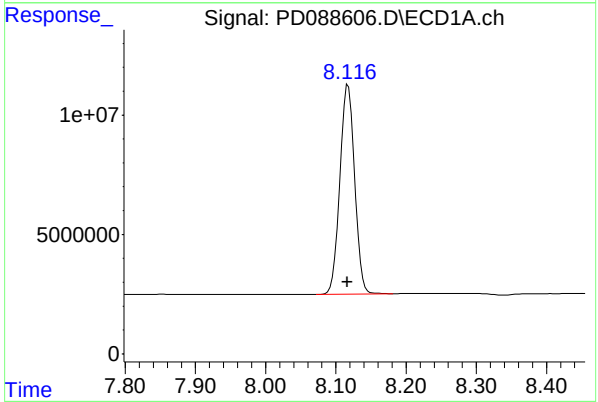
R.T.: 7.633 min
Delta R.T.: 0.000 min
Response: 173133925
Conc: 50.58 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



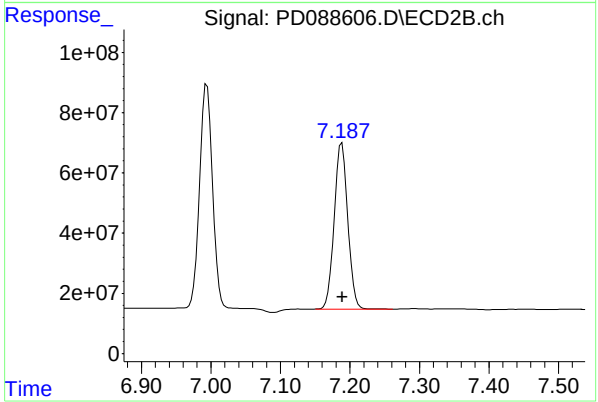
#21 Endrin ketone

R.T.: 6.994 min
Delta R.T.: 0.000 min
Response: 964422110
Conc: 49.85 ng/ml



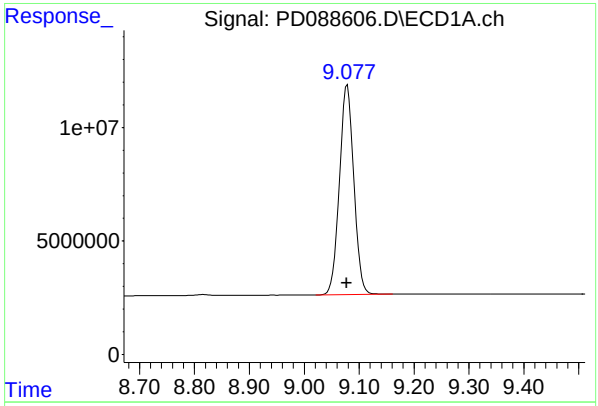
#22 Mirex

R.T.: 8.117 min
Delta R.T.: 0.000 min
Response: 128039831
Conc: 49.28 ng/ml



#22 Mirex

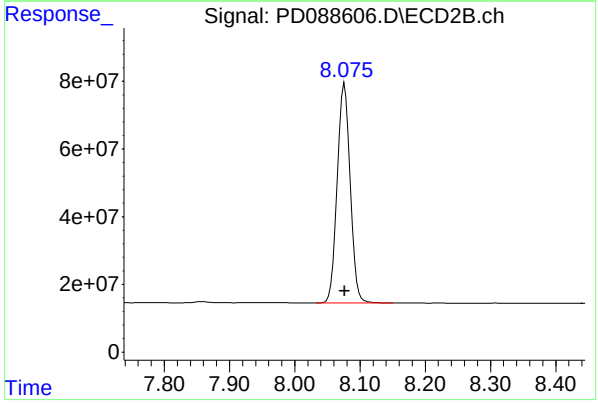
R.T.: 7.188 min
Delta R.T.: 0.000 min
Response: 746347203
Conc: 49.09 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.078 min
Delta R.T.: 0.000 min
Response: 168213293
Conc: 49.15 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 898309724
Conc: 49.21 ng/ml

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

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Continuing Calib Date: 05/19/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 18:45 **Initial Calibration Time(s):** 11:31 12:25

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.08	9.08	8.98	9.18	0.00
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
alpha-BHC	4.00	4.00	3.90	4.10	0.00
beta-BHC	4.52	4.52	4.42	4.62	0.00
delta-BHC	4.77	4.77	4.67	4.87	0.01
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.93	4.93	4.83	5.03	0.00
Aldrin	5.27	5.27	5.17	5.37	0.00
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.00
Endosulfan I	6.08	6.08	5.98	6.18	0.00
Dieldrin	6.35	6.35	6.25	6.45	0.00
4,4'-DDE	6.20	6.20	6.10	6.30	0.00
Endrin	6.58	6.58	6.48	6.68	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	7.15	7.15	7.05	7.25	0.00
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	7.63	7.63	7.53	7.73	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.00
alpha-Chlordane	6.03	6.03	5.93	6.13	0.00
gamma-Chlordane	5.95	5.95	5.85	6.05	0.00

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

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Continuing Calib Date: 05/19/2025 **Initial Calibration Date(s):** 05/19/2025 05/19/2025

Continuing Calib Time: 18:45 **Initial Calibration Time(s):** 11:31 12:25

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.08	8.08	7.98	8.18	0.00
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
alpha-BHC	3.40	3.39	3.29	3.49	0.00
beta-BHC	4.03	4.03	3.93	4.13	0.00
delta-BHC	4.26	4.26	4.16	4.36	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.09	4.09	3.99	4.19	0.00
Aldrin	4.37	4.37	4.27	4.47	0.00
Heptachlor epoxide	4.88	4.88	4.78	4.98	0.00
Endosulfan I	5.25	5.25	5.15	5.35	0.00
Dieldrin	5.52	5.52	5.42	5.62	0.01
4,4'-DDE	5.38	5.38	5.28	5.48	0.00
Endrin	5.79	5.79	5.69	5.89	0.00
Endosulfan II	6.08	6.08	5.98	6.18	0.00
4,4'-DDD	5.93	5.93	5.83	6.03	0.00
Endosulfan sulfate	6.49	6.49	6.39	6.59	0.00
4,4'-DDT	6.19	6.19	6.09	6.29	0.00
Methoxychlor	6.76	6.76	6.66	6.86	0.00
Endrin ketone	6.99	7.00	6.90	7.10	0.01
Endrin aldehyde	6.26	6.26	6.16	6.36	0.00
alpha-Chlordane	5.19	5.19	5.09	5.29	0.00
gamma-Chlordane	5.13	5.13	5.03	5.23	0.00

Alliance TECHNICAL GROUP

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

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL07 **Date Analyzed:** 05/19/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088614.D **Time Analyzed:** 18:45

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.708	6.608	6.808	53.600	50.000	7.2
4,4'-DDE	6.198	6.098	6.298	52.110	50.000	4.2
4,4'-DDT	7.024	6.923	7.123	45.260	50.000	-9.5
Aldrin	5.273	5.173	5.373	53.580	50.000	7.2
alpha-BHC	4.001	3.900	4.100	54.870	50.000	9.7
alpha-Chlordane	6.029	5.930	6.130	52.080	50.000	4.2
beta-BHC	4.517	4.417	4.617	52.780	50.000	5.6
Decachlorobiphenyl	9.078	8.977	9.177	53.900	50.000	7.8
delta-BHC	4.765	4.666	4.866	55.680	50.000	11.4
Dieldrin	6.350	6.250	6.450	52.390	50.000	4.8
Endosulfan I	6.077	5.977	6.177	51.820	50.000	3.6
Endosulfan II	6.788	6.688	6.888	50.030	50.000	0.1
Endosulfan sulfate	7.152	7.052	7.252	51.510	50.000	3.0
Endrin	6.577	6.477	6.677	51.960	50.000	3.9
Endrin aldehyde	6.918	6.817	7.017	49.150	50.000	-1.7
Endrin ketone	7.633	7.533	7.733	48.850	50.000	-2.3
gamma-BHC (Lindane)	4.332	4.232	4.432	53.570	50.000	7.1
gamma-Chlordane	5.948	5.848	6.048	52.750	50.000	5.5
Heptachlor	4.931	4.832	5.032	51.060	50.000	2.1
Heptachlor epoxide	5.693	5.593	5.793	52.510	50.000	5.0
Methoxychlor	7.496	7.395	7.595	43.320	50.000	-13.4
Tetrachloro-m-xylene	3.551	3.451	3.651	58.460	50.000	16.9

Alliance TECHNICAL GROUP

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

CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No.: CCAL07 **Date Analyzed:** 05/19/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD088614.D **Time Analyzed:** 18:45

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.932	5.833	6.033	51.470	50.000	2.9
4,4'-DDE	5.377	5.278	5.478	50.790	50.000	1.6
4,4'-DDT	6.186	6.087	6.287	45.120	50.000	-9.8
Aldrin	4.371	4.271	4.471	52.600	50.000	5.2
alpha-BHC	3.395	3.294	3.494	52.900	50.000	5.8
alpha-Chlordane	5.193	5.094	5.294	50.830	50.000	1.7
beta-BHC	4.027	3.927	4.127	52.780	50.000	5.6
Decachlorobiphenyl	8.076	7.977	8.177	50.220	50.000	0.4
delta-BHC	4.264	4.164	4.364	52.800	50.000	5.6
Dieldrin	5.515	5.416	5.616	50.170	50.000	0.3
Endosulfan I	5.249	5.150	5.350	49.150	50.000	-1.7
Endosulfan II	6.083	5.984	6.184	50.170	50.000	0.3
Endosulfan sulfate	6.485	6.386	6.586	48.600	50.000	-2.8
Endrin	5.792	5.692	5.892	50.570	50.000	1.1
Endrin aldehyde	6.261	6.162	6.362	48.490	50.000	-3.0
Endrin ketone	6.994	6.895	7.095	46.940	50.000	-6.1
gamma-BHC (Lindane)	3.731	3.631	3.831	51.910	50.000	3.8
gamma-Chlordane	5.128	5.029	5.229	51.710	50.000	3.4
Heptachlor	4.085	3.985	4.185	49.920	50.000	-0.2
Heptachlor epoxide	4.875	4.775	4.975	51.370	50.000	2.7
Methoxychlor	6.757	6.658	6.858	45.890	50.000	-8.2
Tetrachloro-m-xylene	2.882	2.782	2.982	57.720	50.000	15.4

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088614.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 18:45
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:39:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
1)	SA	Tetrachlo...	3.551	2.882	126.5E6	873.1E6	58.455	57.715
28)	SA	Decachlor...	9.078	8.076	184.5E6	916.8E6	53.899	50.219
		Target Compounds						
2)	A	alpha-BHC	4.001	3.395	262.1E6	1264.5E6	54.868	52.899
3)	MA	gamma-BHC...	4.332	3.731	246.6E6	1150.6E6	53.571	51.908
4)	MA	Heptachlor	4.931	4.085	228.3E6	1120.9E6	51.060	49.918
5)	MB	Aldrin	5.273	4.371	235.4E6	1153.4E6	53.578	52.597
6)	B	beta-BHC	4.517	4.027	95168404	514.2E6	52.779	52.777
7)	B	delta-BHC	4.765	4.264	235.3E6	1177.2E6	55.681	52.802
8)	B	Heptachlo...	5.693	4.875	208.4E6	1020.8E6	52.505	51.372
9)	A	Endosulfan I	6.077	5.249	195.0E6	932.7E6	51.816	49.146
10)	B	gamma-Chl...	5.948	5.128	210.4E6	1103.0E6	52.755	51.707
11)	B	alpha-Chl...	6.029	5.193	208.6E6	1048.4E6	52.078	50.830
12)	B	4,4'-DDE	6.198	5.377	187.0E6	1061.7E6	52.112	50.792m
13)	MA	Dieldrin	6.350	5.515	210.2E6	1055.9E6	52.387	50.175
14)	MA	Endrin	6.577	5.792	177.5E6	975.2E6	51.964	50.572
15)	B	Endosulfa...	6.788	6.083	172.3E6	919.2E6	50.031	50.171
16)	A	4,4'-DDD	6.708	5.932	149.3E6	895.2E6	53.599	51.469
17)	MA	4,4'-DDT	7.024	6.186	141.3E6	818.3E6	45.258	45.115
18)	B	Endrin al...	6.918	6.261	126.5E6	675.4E6	49.153	48.487
19)	B	Endosulfa...	7.152	6.485	165.0E6	863.0E6	51.505	48.603
20)	A	Methoxychlor	7.496	6.757	72360216	439.4E6	43.315	45.891
21)	B	Endrin ke...	7.633	6.994	167.2E6	908.1E6	48.851	46.936
22)		Mirex	8.117	7.188	126.0E6	725.4E6	48.484	47.719

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

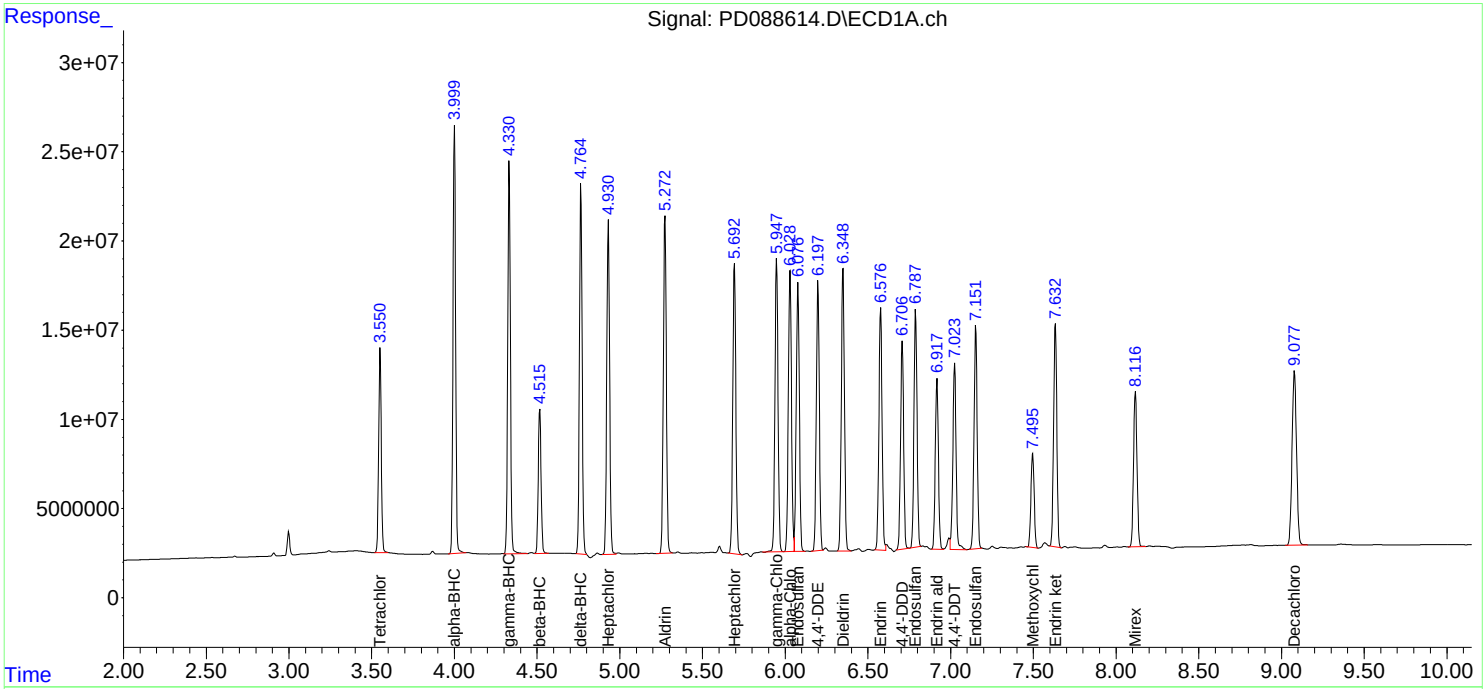
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088614.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 18:45
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

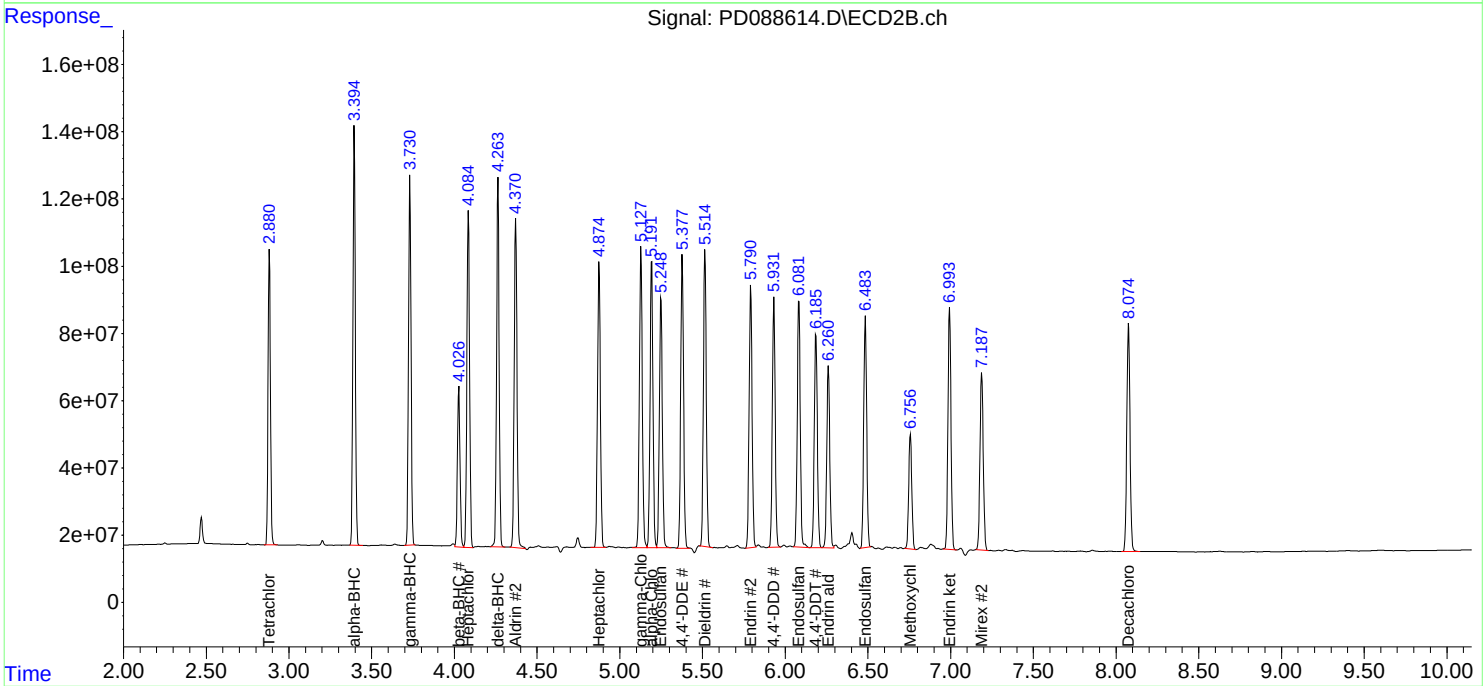
Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

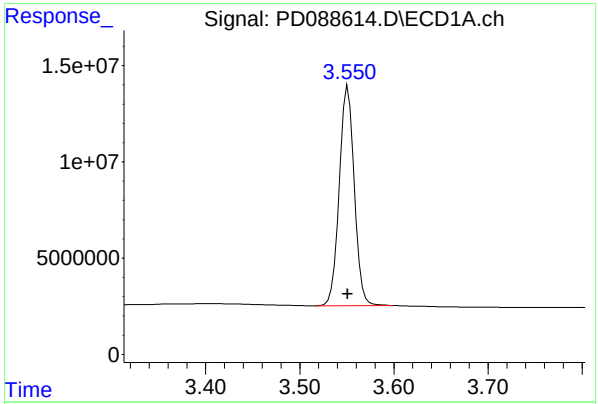
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:39:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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







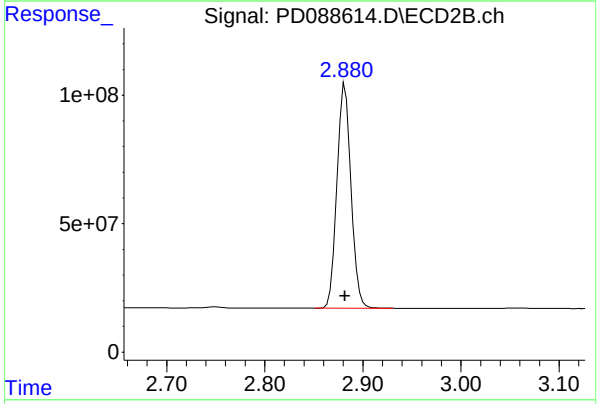
#1 Tetrachloro-m-xylene

R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 126482608
Conc: 58.46 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

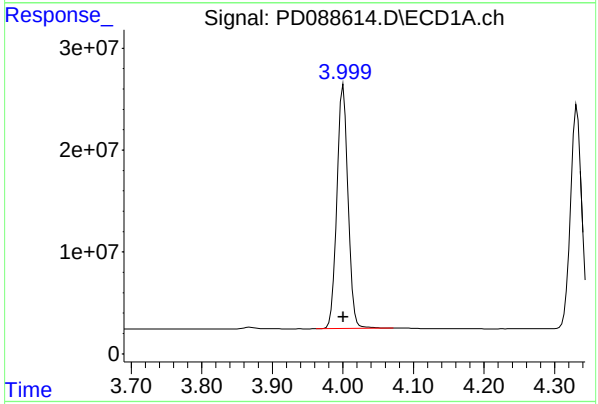
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



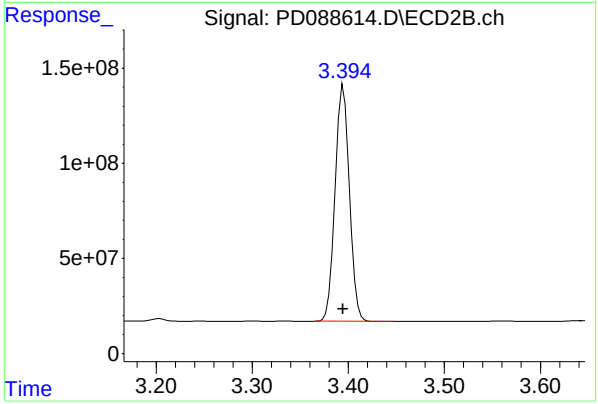
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 873050105
Conc: 57.72 ng/ml



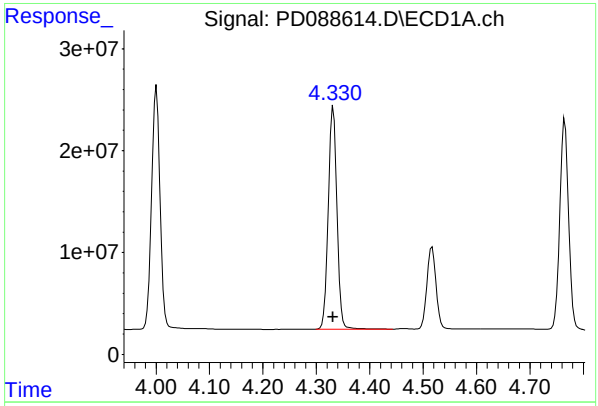
#2 alpha-BHC

R.T.: 4.001 min
Delta R.T.: 0.000 min
Response: 262079229
Conc: 54.87 ng/ml



#2 alpha-BHC

R.T.: 3.395 min
Delta R.T.: 0.000 min
Response: 1264485060
Conc: 52.90 ng/ml



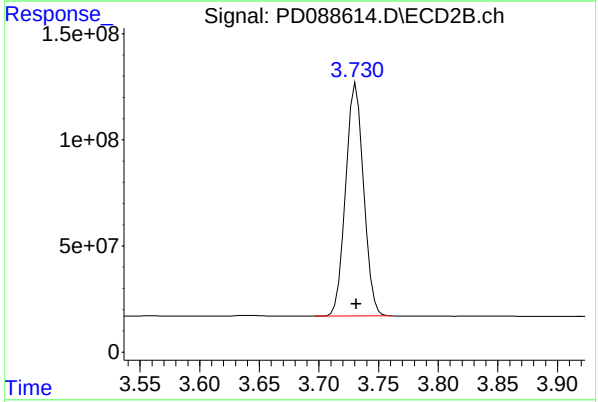
#3 gamma-BHC (Lindane)

R.T.: 4.332 min
Delta R.T.: 0.000 min
Response: 246573212
Conc: 53.57 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

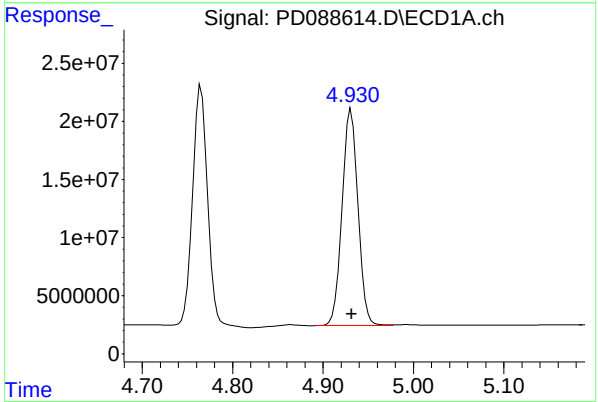
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



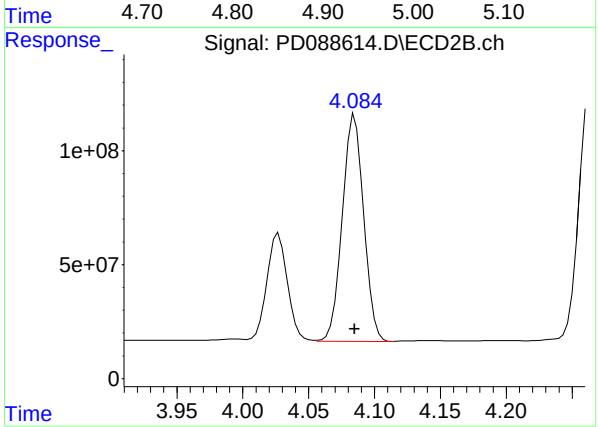
#3 gamma-BHC (Lindane)

R.T.: 3.731 min
Delta R.T.: 0.000 min
Response: 1150583267
Conc: 51.91 ng/ml



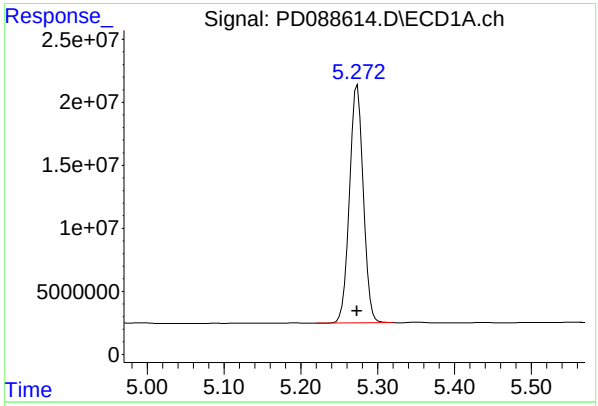
#4 Heptachlor

R.T.: 4.931 min
Delta R.T.: 0.000 min
Response: 228300712
Conc: 51.06 ng/ml



#4 Heptachlor

R.T.: 4.085 min
Delta R.T.: 0.000 min
Response: 1120893488
Conc: 49.92 ng/ml



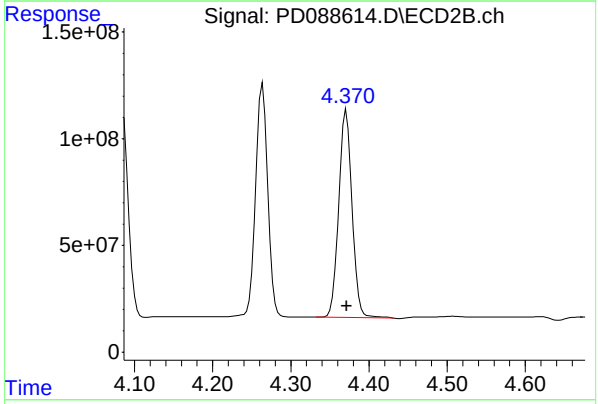
#5 Aldrin

R.T.: 5.273 min
Delta R.T.: 0.000 min
Response: 235448552
Conc: 53.58 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

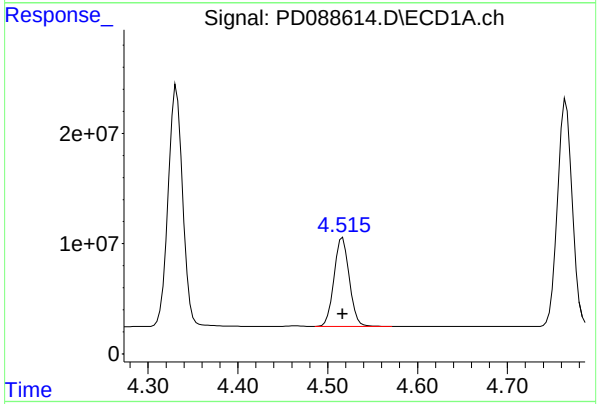
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



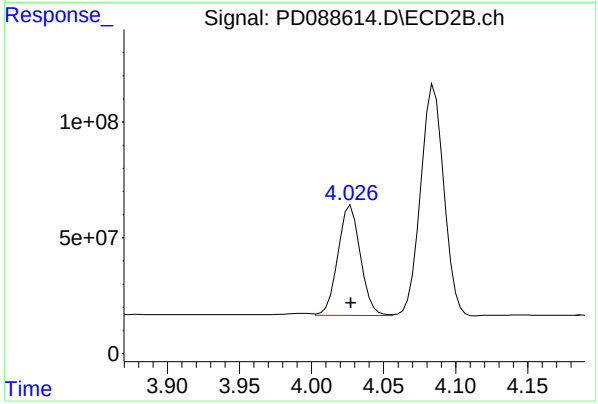
#5 Aldrin

R.T.: 4.371 min
Delta R.T.: 0.000 min
Response: 1153439210
Conc: 52.60 ng/ml



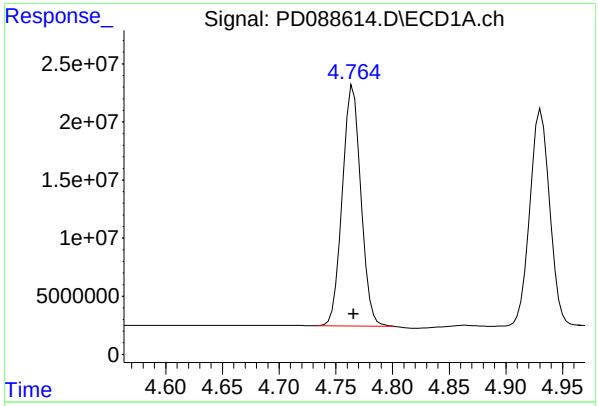
#6 beta-BHC

R.T.: 4.517 min
Delta R.T.: 0.000 min
Response: 95168404
Conc: 52.78 ng/ml



#6 beta-BHC

R.T.: 4.027 min
Delta R.T.: 0.000 min
Response: 514151307
Conc: 52.78 ng/ml



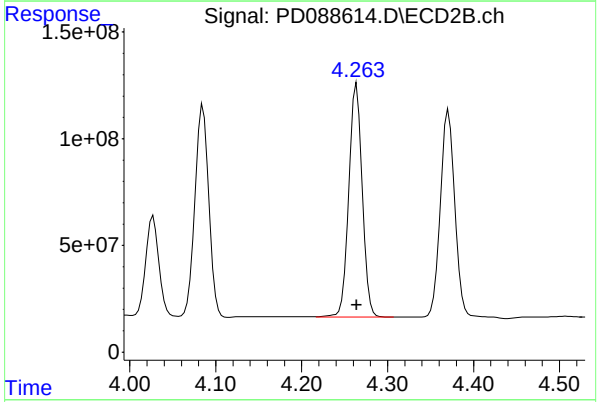
#7 delta-BHC

R.T.: 4.765 min
Delta R.T.: 0.000 min
Response: 235315890
Conc: 55.68 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

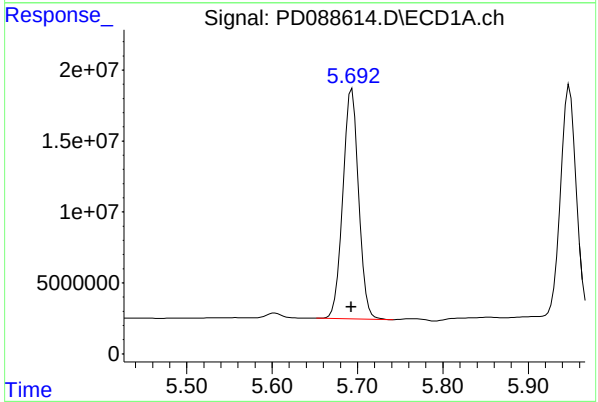
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



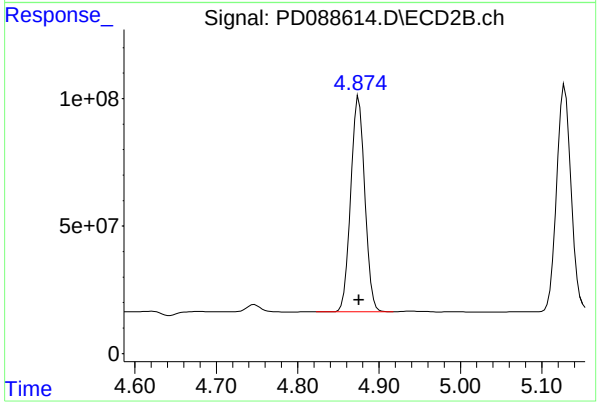
#7 delta-BHC

R.T.: 4.264 min
Delta R.T.: 0.000 min
Response: 1177181389
Conc: 52.80 ng/ml



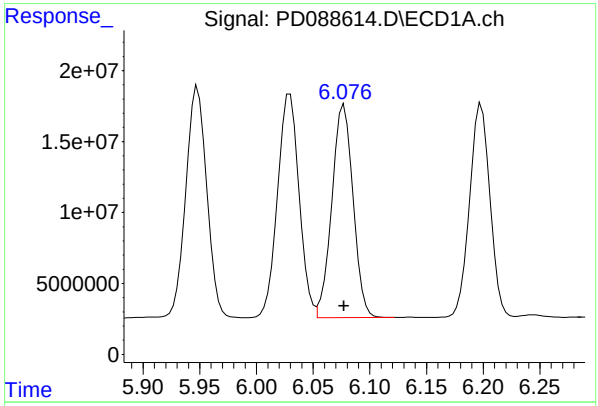
#8 Heptachlor epoxide

R.T.: 5.693 min
Delta R.T.: 0.000 min
Response: 208408919
Conc: 52.51 ng/ml



#8 Heptachlor epoxide

R.T.: 4.875 min
Delta R.T.: 0.000 min
Response: 1020825248
Conc: 51.37 ng/ml



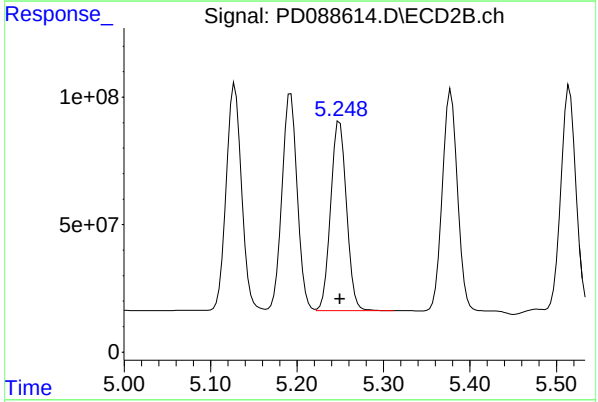
#9 Endosulfan I

R.T.: 6.077 min
Delta R.T.: 0.000 min
Response: 194980880
Conc: 51.82 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

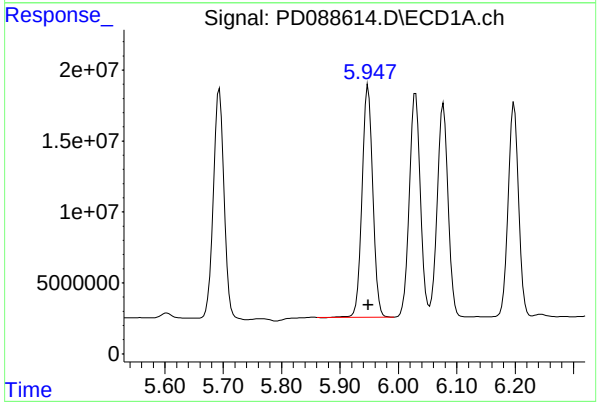
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



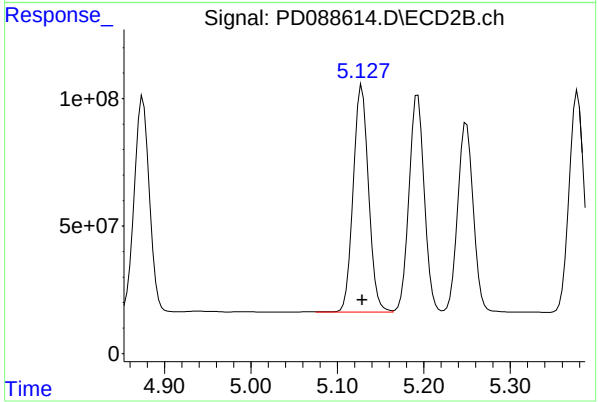
#9 Endosulfan I

R.T.: 5.249 min
Delta R.T.: 0.000 min
Response: 932713484
Conc: 49.15 ng/ml



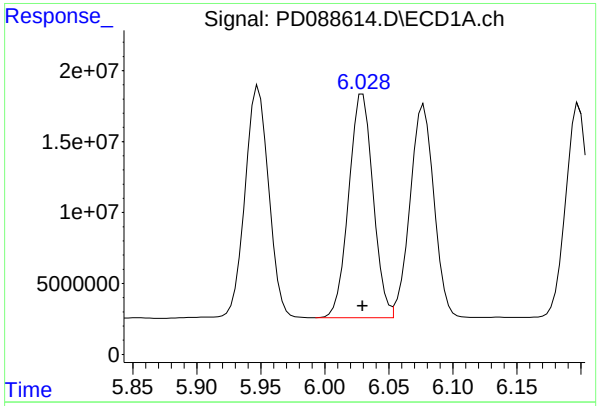
#10 gamma-Chlordane

R.T.: 5.948 min
Delta R.T.: 0.000 min
Response: 210435607
Conc: 52.75 ng/ml



#10 gamma-Chlordane

R.T.: 5.128 min
Delta R.T.: 0.000 min
Response: 1103009442
Conc: 51.71 ng/ml



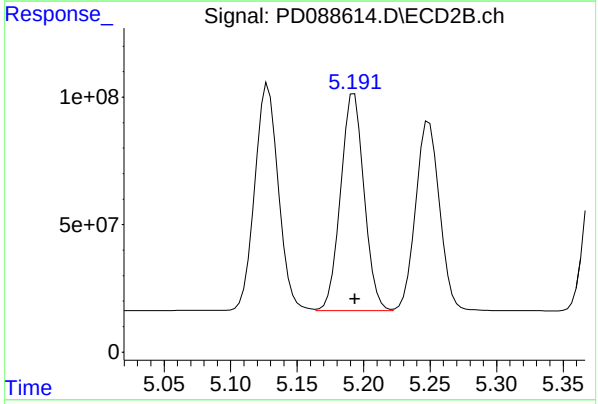
#11 alpha-Chlordane

R.T.: 6.029 min
Delta R.T.: 0.000 min
Response: 208639122
Conc: 52.08 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

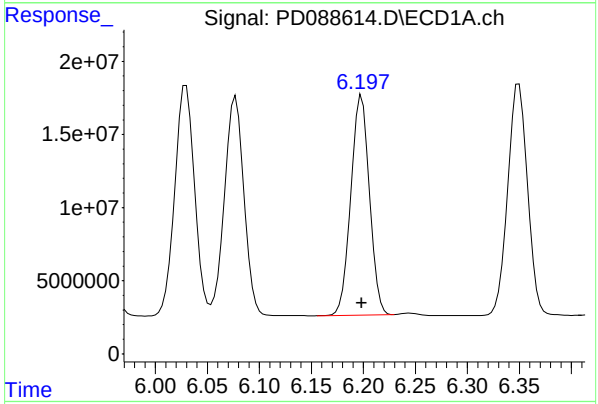
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



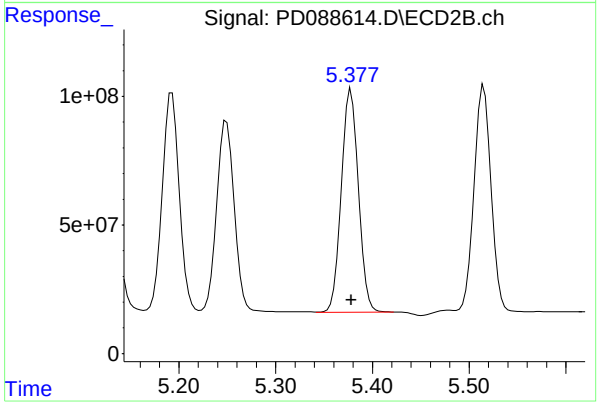
#11 alpha-Chlordane

R.T.: 5.193 min
Delta R.T.: 0.000 min
Response: 1048352082
Conc: 50.83 ng/ml



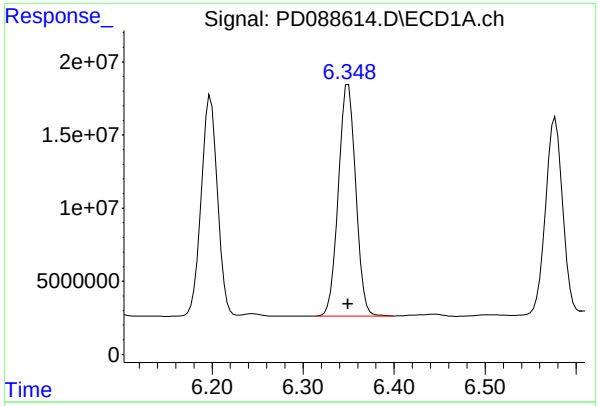
#12 4,4'-DDE

R.T.: 6.198 min
Delta R.T.: 0.000 min
Response: 187048372
Conc: 52.11 ng/ml



#12 4,4'-DDE

R.T.: 5.377 min
Delta R.T.: -0.002 min
Response: 1061697823
Conc: 50.79 ng/ml m



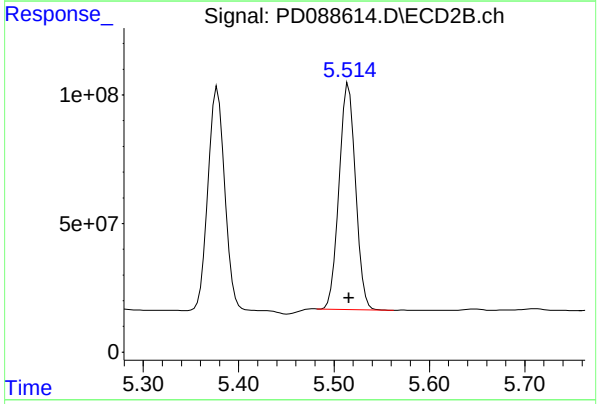
#13 Dieldrin

R.T.: 6.350 min
Delta R.T.: 0.000 min
Response: 210161439
Conc: 52.39 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

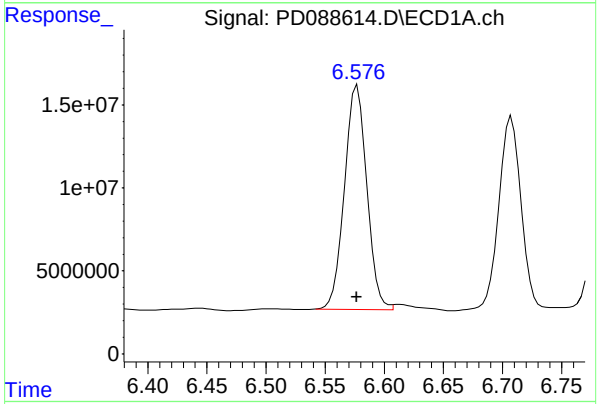
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



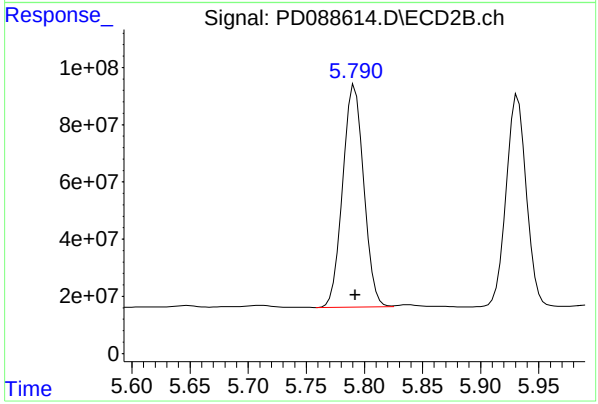
#13 Dieldrin

R.T.: 5.515 min
Delta R.T.: 0.000 min
Response: 1055872439
Conc: 50.17 ng/ml



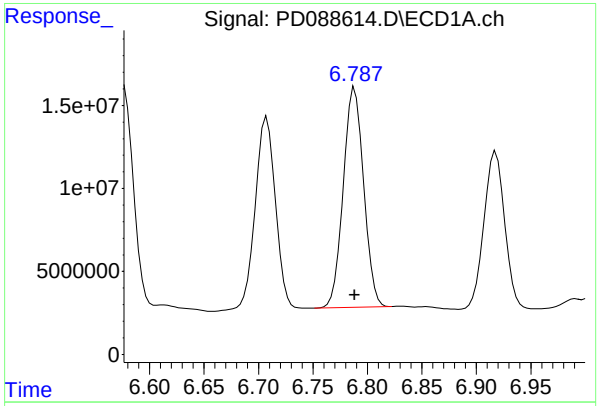
#14 Endrin

R.T.: 6.577 min
Delta R.T.: 0.000 min
Response: 177464986
Conc: 51.96 ng/ml



#14 Endrin

R.T.: 5.792 min
Delta R.T.: 0.000 min
Response: 975222677
Conc: 50.57 ng/ml



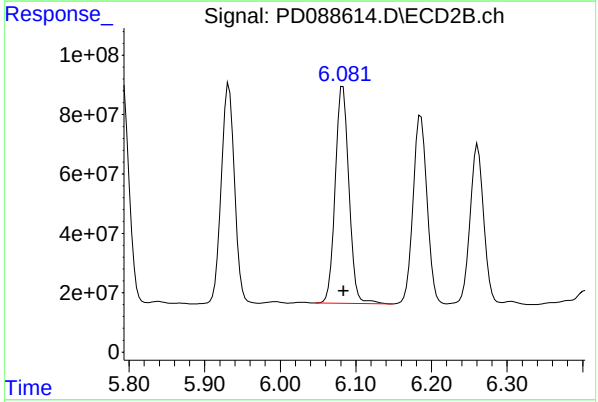
#15 Endosulfan II

R.T.: 6.788 min
Delta R.T.: 0.000 min
Response: 172285934
Conc: 50.03 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

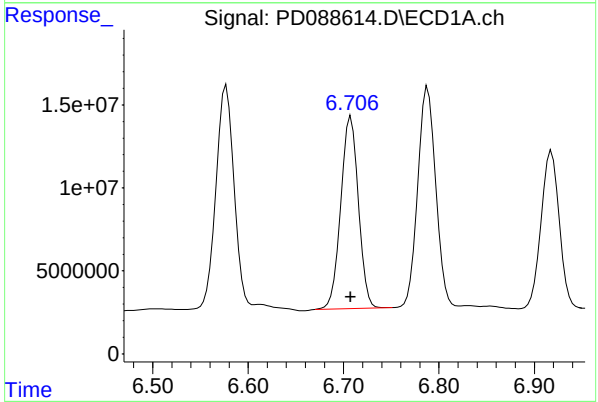
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



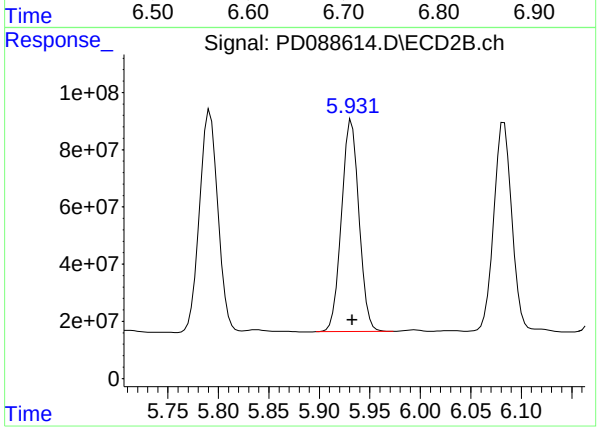
#15 Endosulfan II

R.T.: 6.083 min
Delta R.T.: 0.000 min
Response: 919217692
Conc: 50.17 ng/ml



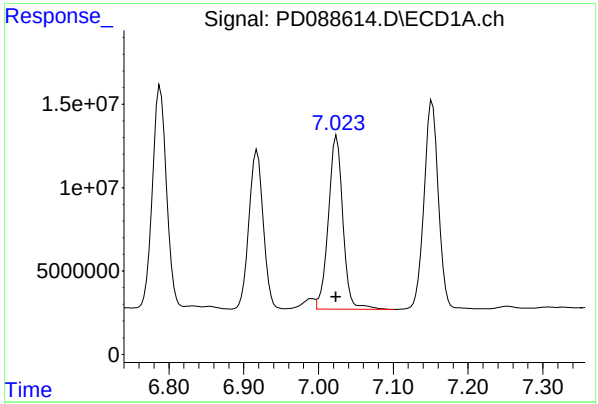
#16 4,4'-DDD

R.T.: 6.708 min
Delta R.T.: 0.000 min
Response: 149279969
Conc: 53.60 ng/ml



#16 4,4'-DDD

R.T.: 5.932 min
Delta R.T.: 0.000 min
Response: 895167039
Conc: 51.47 ng/ml



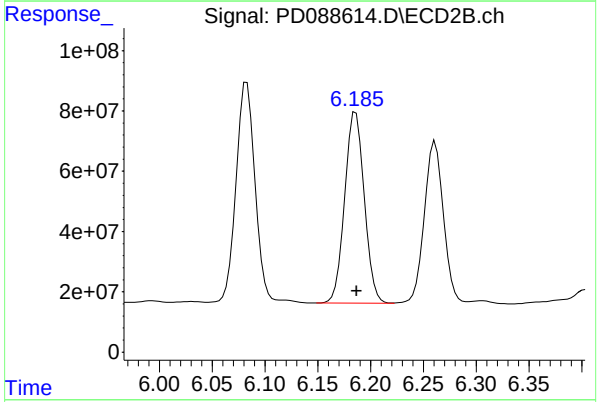
#17 4,4'-DDT

R.T.: 7.024 min
Delta R.T.: 0.000 min
Response: 141298714
Conc: 45.26 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

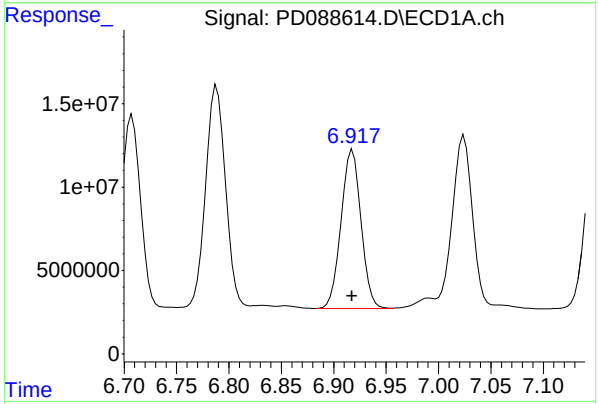
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



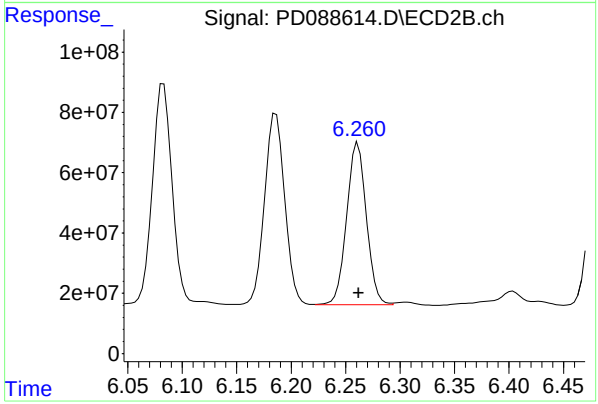
#17 4,4'-DDT

R.T.: 6.186 min
Delta R.T.: -0.001 min
Response: 818269391
Conc: 45.12 ng/ml



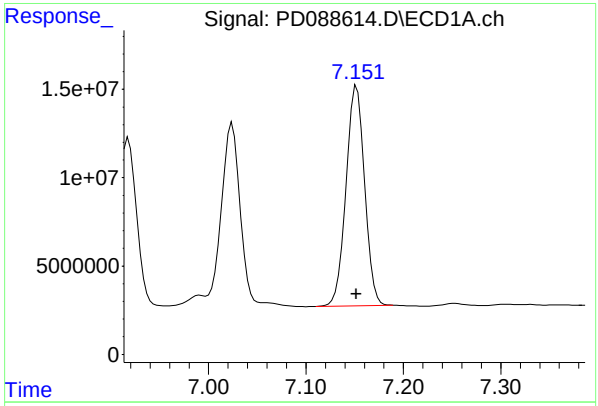
#18 Endrin aldehyde

R.T.: 6.918 min
Delta R.T.: 0.000 min
Response: 126548538
Conc: 49.15 ng/ml



#18 Endrin aldehyde

R.T.: 6.261 min
Delta R.T.: 0.000 min
Response: 675364589
Conc: 48.49 ng/ml



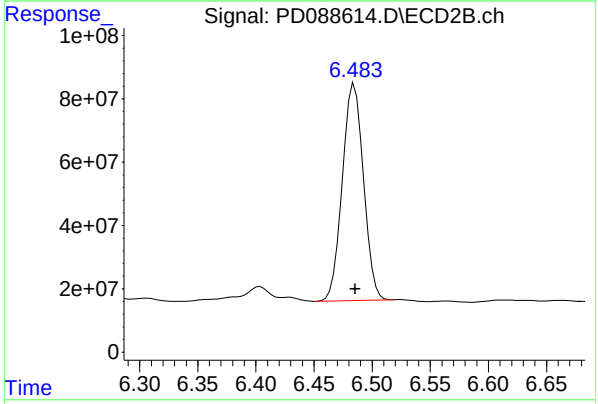
#19 Endosulfan Sulfate

R.T.: 7.152 min
Delta R.T.: 0.000 min
Response: 164974406
Conc: 51.51 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

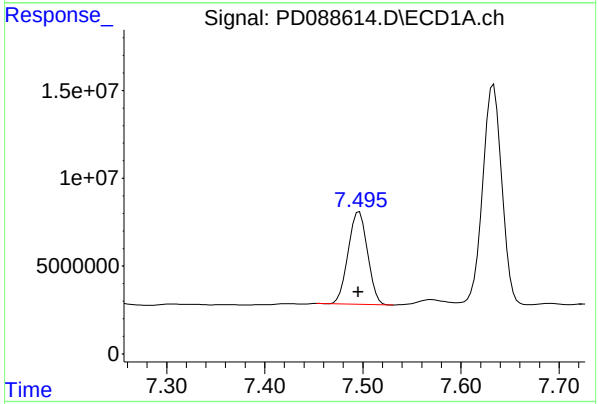
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



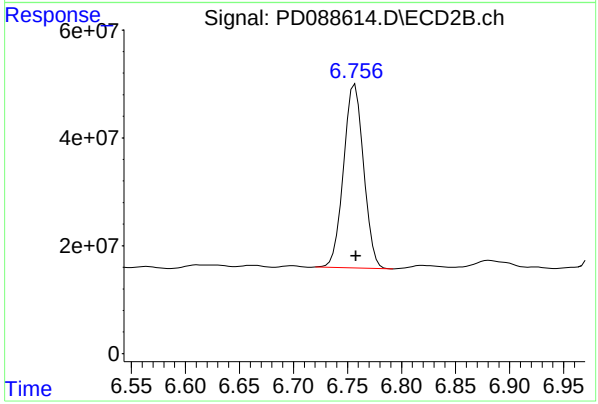
#19 Endosulfan Sulfate

R.T.: 6.485 min
Delta R.T.: -0.001 min
Response: 862984719
Conc: 48.60 ng/ml



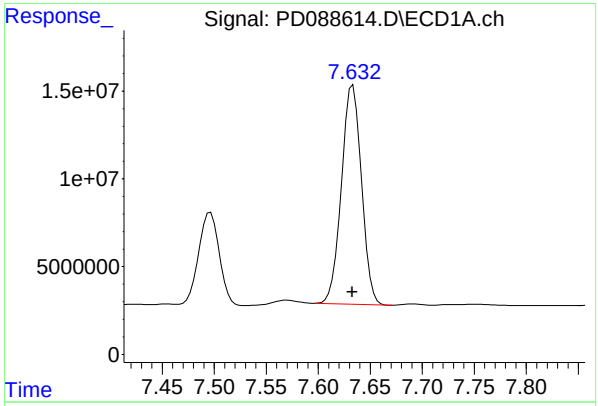
#20 Methoxychlor

R.T.: 7.496 min
Delta R.T.: 0.001 min
Response: 72360216
Conc: 43.32 ng/ml



#20 Methoxychlor

R.T.: 6.757 min
Delta R.T.: -0.001 min
Response: 439400168
Conc: 45.89 ng/ml



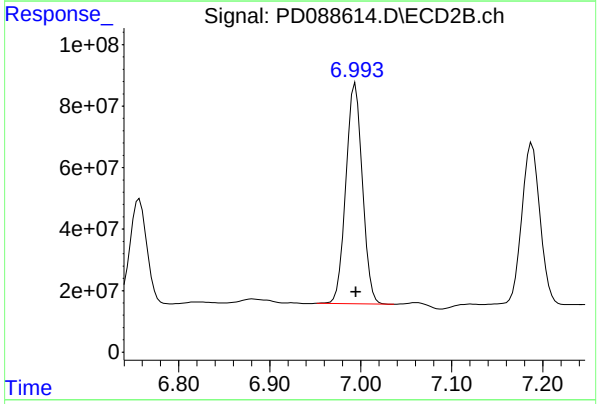
#21 Endrin ketone

R.T.: 7.633 min
Delta R.T.: 0.000 min
Response: 167225439
Conc: 48.85 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

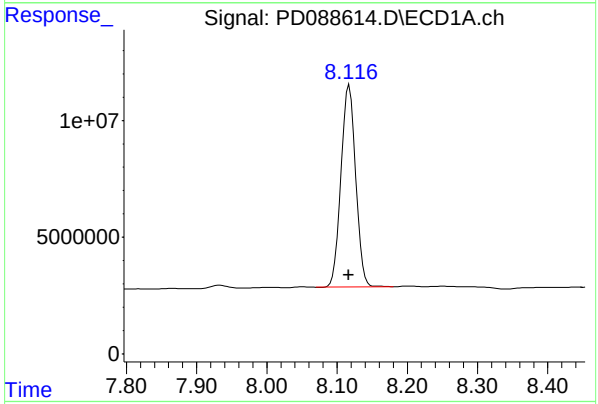
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



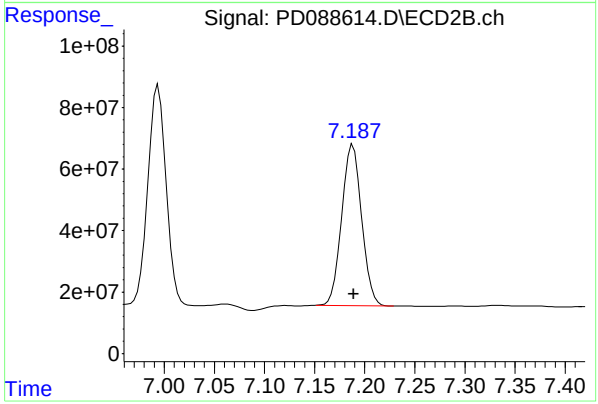
#21 Endrin ketone

R.T.: 6.994 min
Delta R.T.: 0.000 min
Response: 908090173
Conc: 46.94 ng/ml



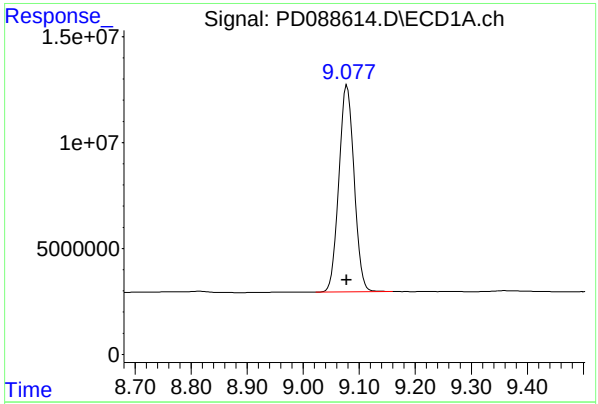
#22 Mirex

R.T.: 8.117 min
Delta R.T.: 0.000 min
Response: 125974550
Conc: 48.48 ng/ml



#22 Mirex

R.T.: 7.188 min
Delta R.T.: 0.000 min
Response: 725446498
Conc: 47.72 ng/ml



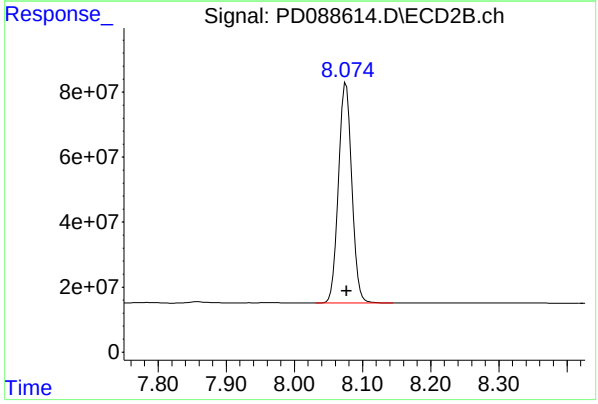
#28 Decachlorobiphenyl

R.T.: 9.078 min
Delta R.T.: 0.000 min
Response: 184460947
Conc: 53.90 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 916806063
Conc: 50.22 ng/ml

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

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No. (PEM): PEM - PD088122.D **Date Analyzed:** 04/18/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 13:29

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.075	8.970	9.180	23.220	20.000	16.1
Tetrachloro-m-xylene	3.551	3.500	3.600	21.610	20.000	8.1
alpha-BHC	4.000	3.950	4.050	9.950	10.000	-0.5
beta-BHC	4.516	4.470	4.570	11.360	10.000	13.6
gamma-BHC (Lindane)	4.331	4.280	4.380	10.480	10.000	4.8
Endrin	6.576	6.510	6.650	51.530	50.000	3.1
4,4'-DDT	7.023	6.950	7.090	110.510	100.000	10.5
Methoxychlor	7.494	7.420	7.560	265.100	250.000	6.0

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No. (PEM): PEM - PD088122.D **Date Analyzed:** 04/18/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 13:29

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.076	7.980	8.180	22.950	20.000	14.8
Tetrachloro-m-xylene	2.883	2.830	2.930	22.200	20.000	11.0
alpha-BHC	3.396	3.350	3.450	11.720	10.000	17.2
beta-BHC	4.028	3.980	4.080	12.460	10.000	24.6
gamma-BHC (Lindane)	3.732	3.680	3.780	11.580	10.000	15.8
Endrin	5.793	5.720	5.860	49.780	50.000	-0.4
4,4'-DDT	6.187	6.120	6.260	102.610	100.000	2.6
Methoxychlor	6.758	6.690	6.830	215.580	250.000	-13.8

PEM

Data File: PD088122.D **Date Acquired** 4/18/2025 13:29

Operator: AR\AJ

ENDRIN BREAK DOWN

Column #1

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down Down
Endrin	6.58	153680370.7	162192230.2	8511859.47	**5.25**
Endrin aldehyde	6.92	3420195.012			
Endrin ketone	7.63	5091664.461			

Column #2

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down
Endrin #2	5.79	906106216.2	976124672.3	70018456.1	**7.17**
Endrin aldehyde #2	6.26	27341767.91			
Endrin ketone #2	6.99	42676688.15			

DDT BREAK DOWN

Column #1

Name	RT	Response	Response [DDT+DDE+DDD	Response [DDE+DDD]	% Break Down
4,4'-DDT	7.02	306944307.8	307584368.9	640061.113	**0.21**
4,4'-DDE	0.00	0			
4,4'-DDD	6.71	640061.113			

Column #2

Name	RT	Response	Response [DDT+DDE+DDD	Response [DDE+DDD]	% Break Down
4,4'-DDT #2	6.19	1746026847	1755776541	9749694.14	**0.56**
4,4'-DDE #2	0.00	0			
4,4'-DDD #2	5.94	9749694.138			

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088122.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 13:29
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PEM

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/19/2025
Supervised By :mohammad ahmed 04/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 06:41:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.551	2.883	43154195	324.6E6	21.605	22.198
28)	SA Decachlor...	9.075	8.076	76807188	424.1E6	23.218	22.951
	Target Compounds						
2)	A alpha-BHC	4.000	3.396	42909357	267.8E6	9.951	11.716
3)	MA gamma-BHC...	4.331	3.732	43874391	249.5E6	10.477	11.583
6)	B beta-BHC	4.516	4.028	18444986	115.3E6	11.362	12.462
14)	MA Endrin	6.576	5.793	153.7E6	906.1E6	51.526	49.780
16)	A 4,4'-DDD	6.708	5.936	640061	9749694	0.255	0.595m#
17)	MA 4,4'-DDT	7.023	6.187	306.9E6	1746.0E6	110.509	102.608
18)	B Endrin al...	6.915	6.262	3420195	27341768	1.482	2.056 #
20)	A Methoxychlor	7.494	6.758	397.5E6	1966.3E6	265.100	215.579
21)	B Endrin ke...	7.630	6.994	5091664	42676688	1.650	2.282 #

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

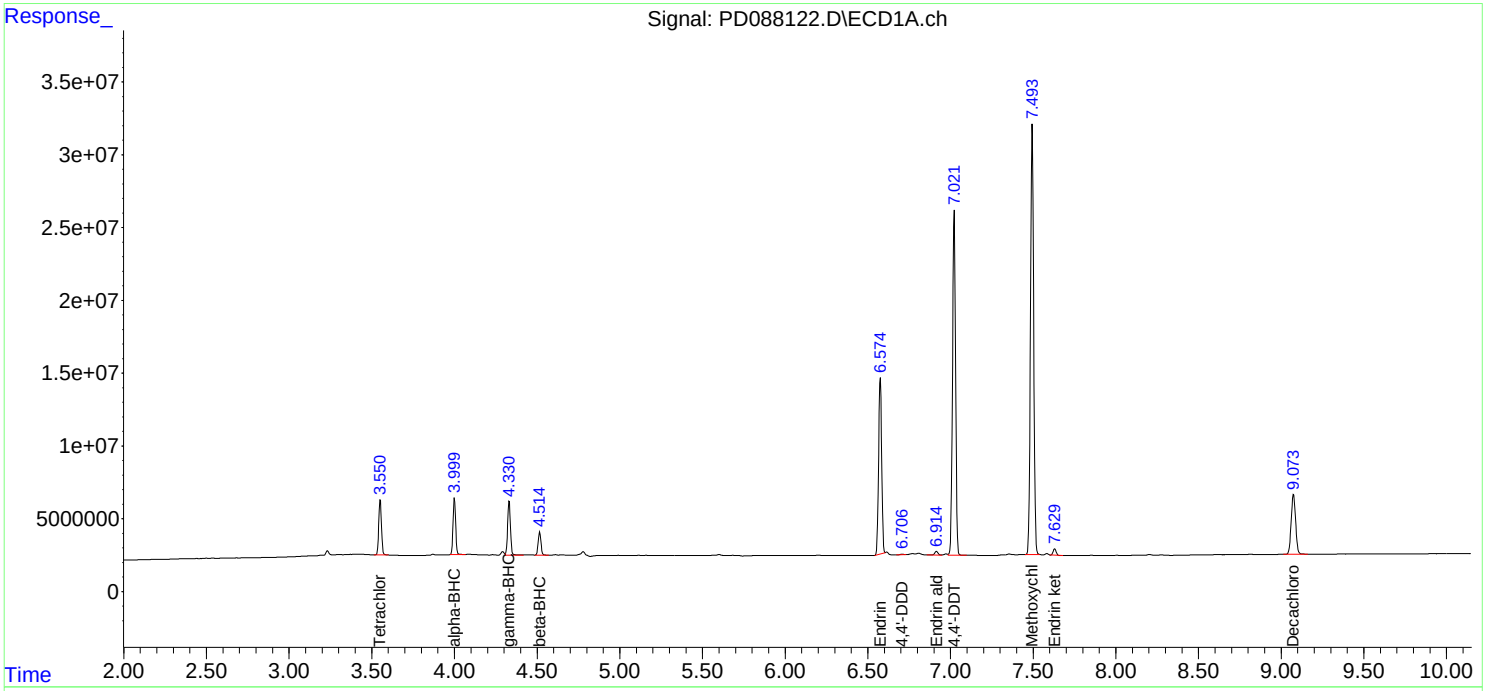
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088122.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 13:29
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

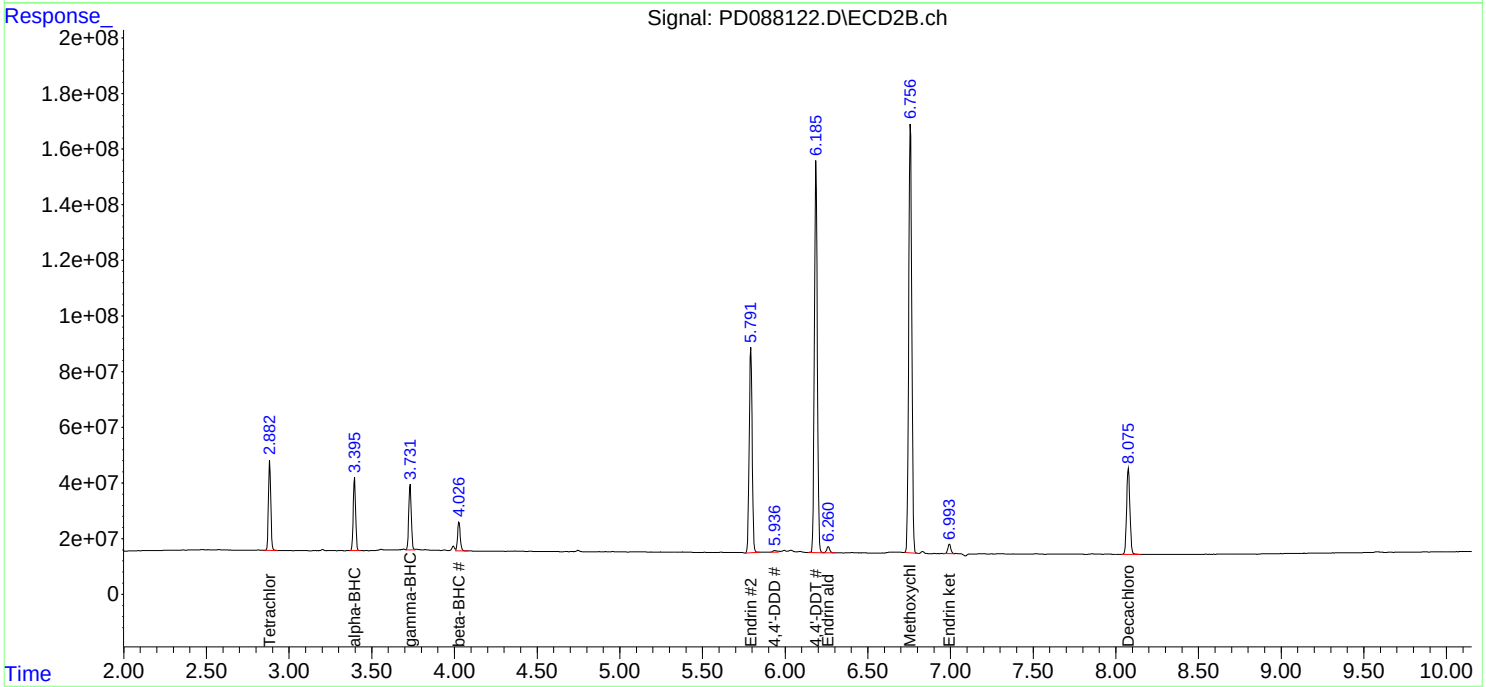
Instrument :
ECD_D
ClientSampleId :
PEM

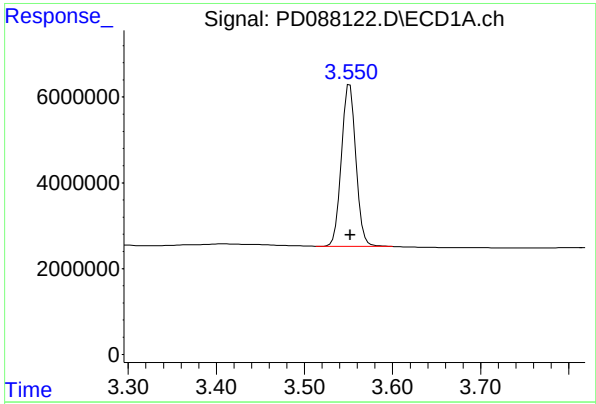
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/19/2025
Supervised By :mohammad ahmed 04/22/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 06:41:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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







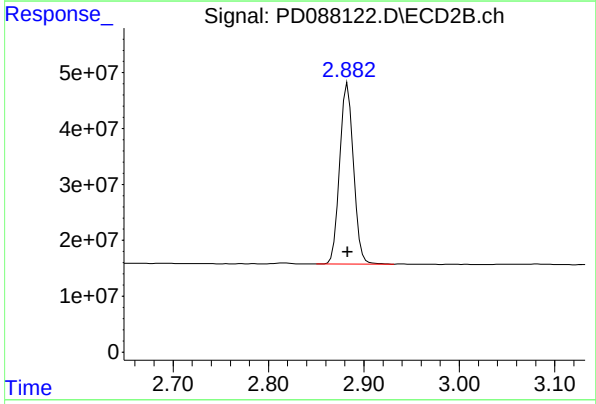
#1 Tetrachloro-m-xylene

R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 43154195
Conc: 21.61 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM

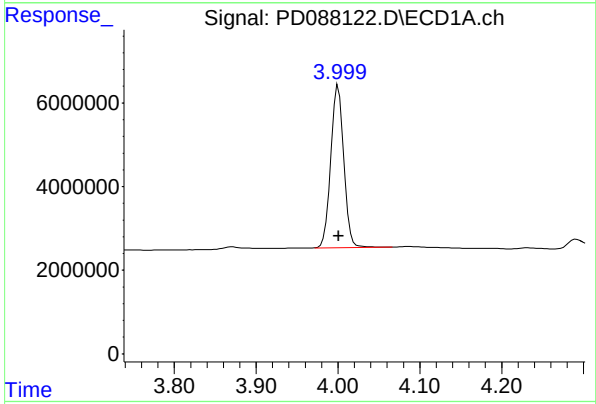
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/19/2025
Supervised By :mohammad ahmed 04/22/2025



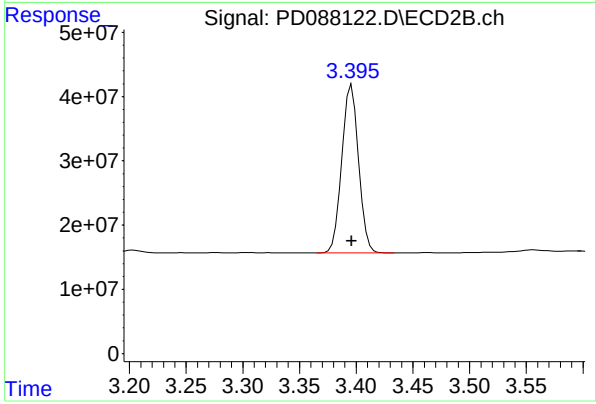
#1 Tetrachloro-m-xylene

R.T.: 2.883 min
Delta R.T.: 0.000 min
Response: 324567676
Conc: 22.20 ng/ml



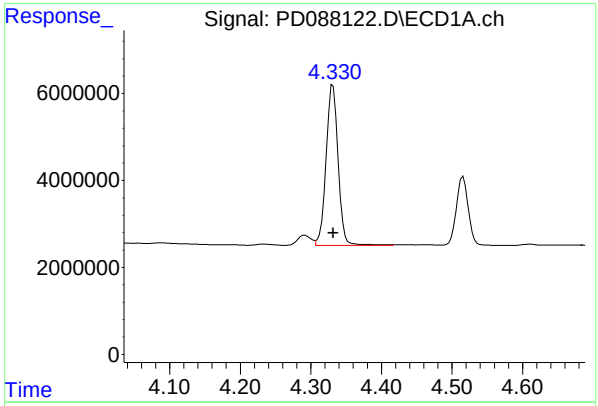
#2 alpha-BHC

R.T.: 4.000 min
Delta R.T.: 0.000 min
Response: 42909357
Conc: 9.95 ng/ml



#2 alpha-BHC

R.T.: 3.396 min
Delta R.T.: 0.000 min
Response: 267840155
Conc: 11.72 ng/ml



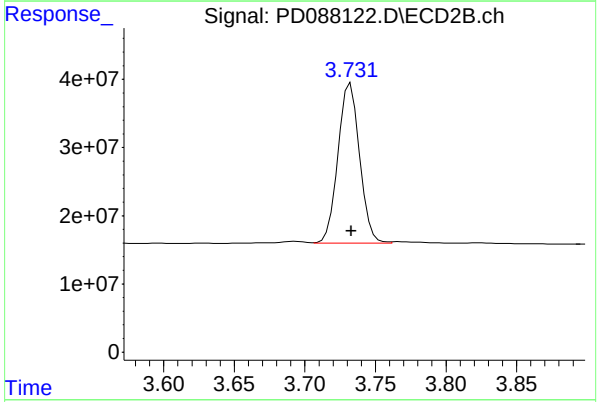
#3 gamma-BHC (Lindane)

R.T.: 4.331 min
Delta R.T.: 0.000 min
Response: 43874391
Conc: 10.48 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM

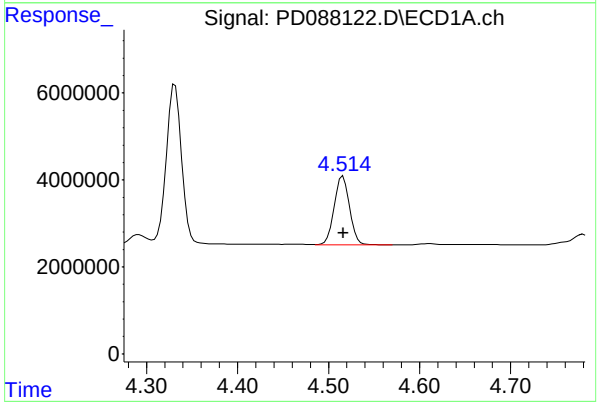
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/19/2025
Supervised By :mohammad ahmed 04/22/2025



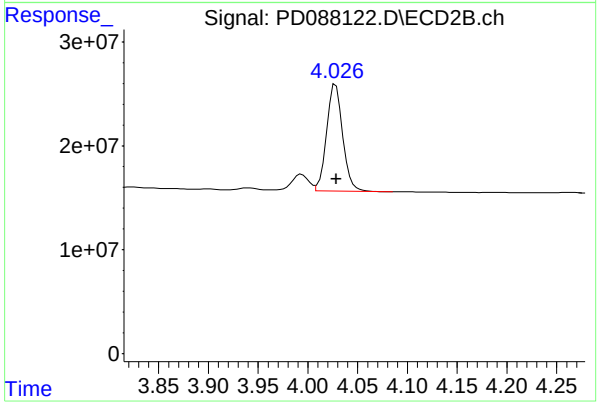
#3 gamma-BHC (Lindane)

R.T.: 3.732 min
Delta R.T.: 0.000 min
Response: 249483869
Conc: 11.58 ng/ml



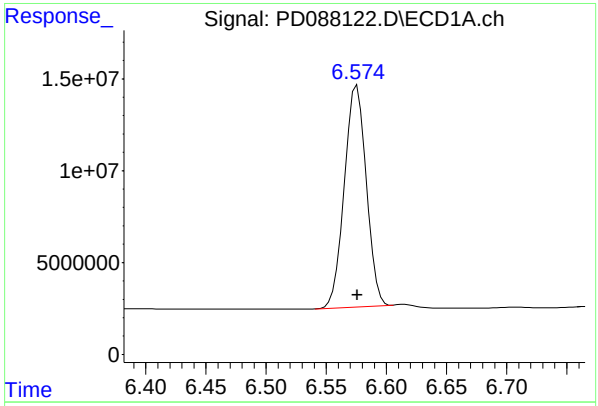
#6 beta-BHC

R.T.: 4.516 min
Delta R.T.: 0.000 min
Response: 18444986
Conc: 11.36 ng/ml



#6 beta-BHC

R.T.: 4.028 min
Delta R.T.: 0.000 min
Response: 115325342
Conc: 12.46 ng/ml



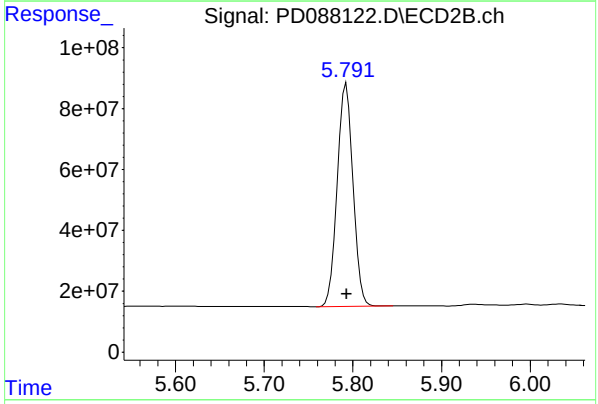
#14 Endrin

R.T.: 6.576 min
Delta R.T.: 0.000 mi
Response: 153680371
Conc: 51.53 ng/m

Instrument :
ECD_D
ClientSampleId :
PEM

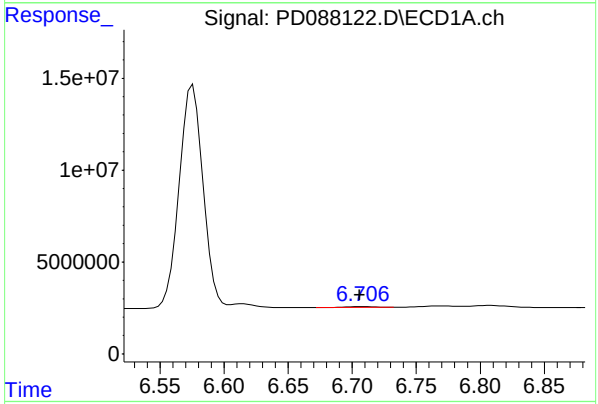
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/19/2025
Supervised By :mohammad ahmed 04/22/2025



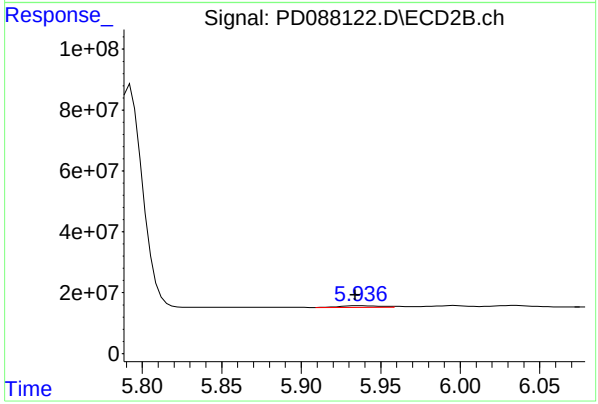
#14 Endrin

R.T.: 5.793 min
Delta R.T.: 0.000 min
Response: 906106216
Conc: 49.78 ng/ml



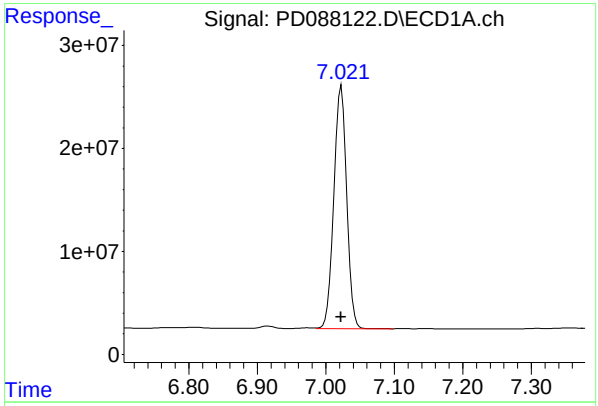
#16 4,4'-DDD

R.T.: 6.708 min
Delta R.T.: 0.002 min
Response: 640061
Conc: 0.25 ng/ml



#16 4,4'-DDD

R.T.: 5.936 min
Delta R.T.: 0.002 min
Response: 9749694
Conc: 0.59 ng/ml m



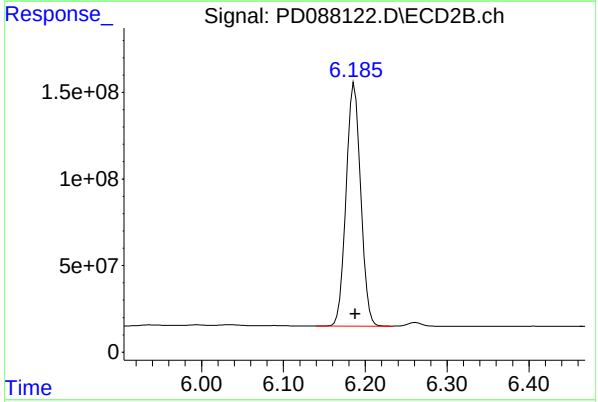
#17 4,4'-DDT

R.T.: 7.023 min
Delta R.T.: 0.000 min
Response: 306944308
Conc: 110.51 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM

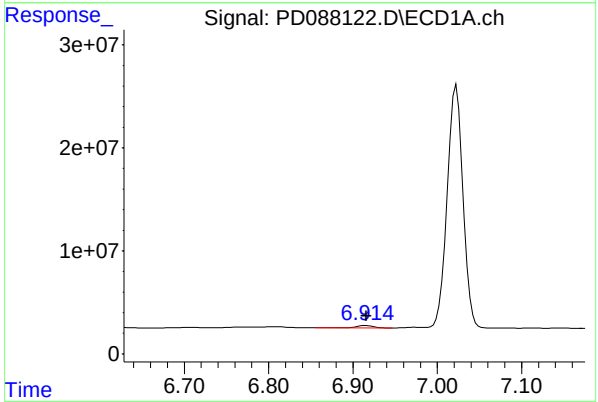
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/19/2025
Supervised By :mohammad ahmed 04/22/2025



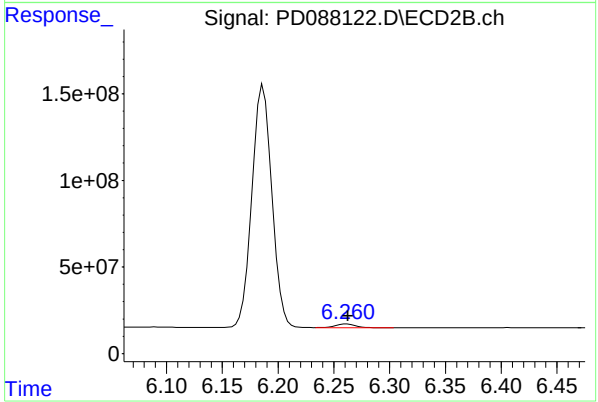
#17 4,4'-DDT

R.T.: 6.187 min
Delta R.T.: -0.001 min
Response: 1746026847
Conc: 102.61 ng/ml



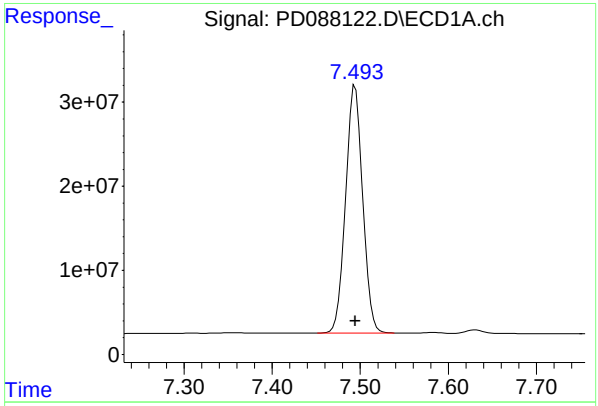
#18 Endrin aldehyde

R.T.: 6.915 min
Delta R.T.: 0.000 min
Response: 3420195
Conc: 1.48 ng/ml



#18 Endrin aldehyde

R.T.: 6.262 min
Delta R.T.: -0.001 min
Response: 27341768
Conc: 2.06 ng/ml



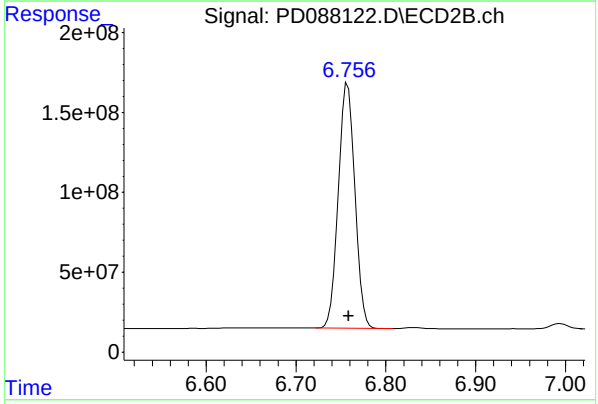
#20 Methoxychlor

R.T.: 7.494 min
Delta R.T.: 0.000 min
Response: 397529018
Conc: 265.10 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM

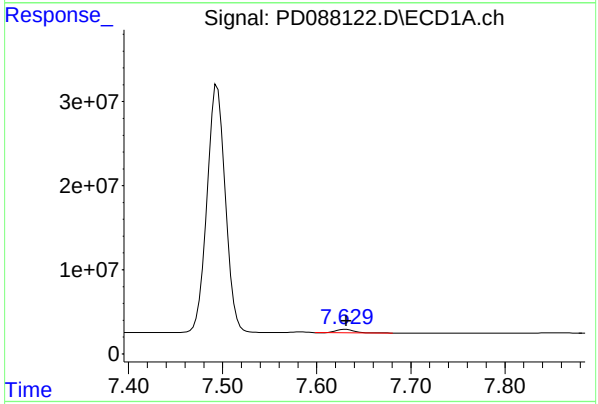
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/19/2025
Supervised By :mohammad ahmed 04/22/2025



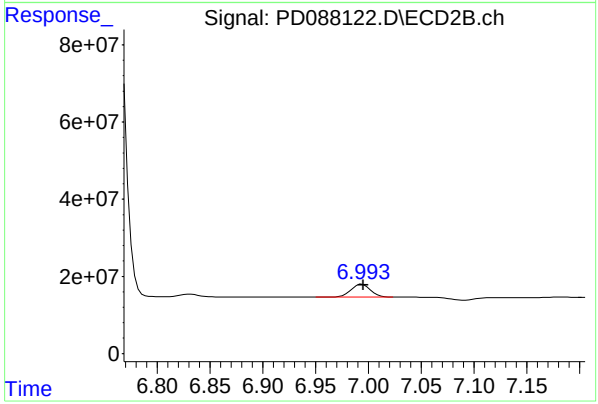
#20 Methoxychlor

R.T.: 6.758 min
Delta R.T.: 0.000 min
Response: 1966308207
Conc: 215.58 ng/ml



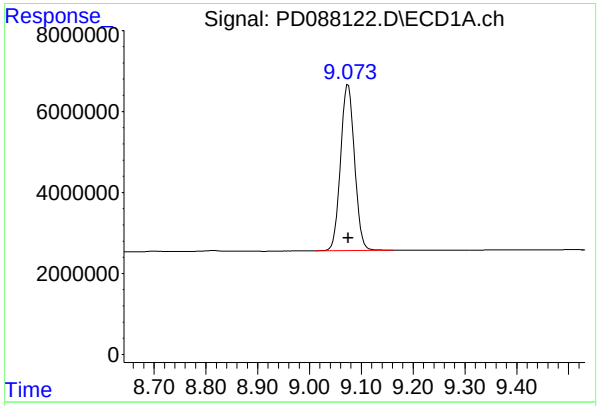
#21 Endrin ketone

R.T.: 7.630 min
Delta R.T.: 0.000 min
Response: 5091664
Conc: 1.65 ng/ml



#21 Endrin ketone

R.T.: 6.994 min
Delta R.T.: -0.001 min
Response: 42676688
Conc: 2.28 ng/ml



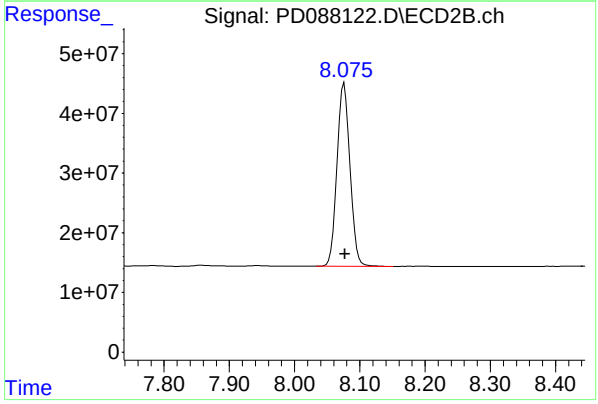
#28 Decachlorobiphenyl

R.T.: 9.075 min
Delta R.T.: 0.000 mi
Response: 76807188
Conc: 23.22 ng/m

Instrument :
ECD_D
ClientSampleId :
PEM

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 04/19/2025
Supervised By :mohammad ahmed 04/22/2025



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 424133792
Conc: 22.95 ng/ml

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

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No. (PEM): PEM - PD088498.D **Date Analyzed:** 05/13/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 09:41

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.074	8.970	9.170	23.730	20.000	18.7
Tetrachloro-m-xylene	3.551	3.500	3.600	23.660	20.000	18.3
alpha-BHC	4.000	3.950	4.050	10.800	10.000	8.0
beta-BHC	4.516	4.470	4.570	12.260	10.000	22.6
gamma-BHC (Lindane)	4.331	4.280	4.380	11.190	10.000	11.9
Endrin	6.575	6.500	6.650	59.430	50.000	18.9
4,4'-DDT	7.021	6.950	7.090	119.580	100.000	19.6
Methoxychlor	7.494	7.420	7.560	270.970	250.000	8.4

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No. (PEM): PEM - PD088498.D **Date Analyzed:** 05/13/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 09:41

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.073	7.970	8.170	20.850	20.000	4.3
Tetrachloro-m-xylene	2.881	2.830	2.930	22.400	20.000	12.0
alpha-BHC	3.394	3.340	3.440	11.630	10.000	16.3
beta-BHC	4.026	3.980	4.080	12.030	10.000	20.3
gamma-BHC (Lindane)	3.730	3.680	3.780	11.540	10.000	15.4
Endrin	5.790	5.720	5.860	51.700	50.000	3.4
4,4'-DDT	6.185	6.110	6.260	99.870	100.000	-0.1
Methoxychlor	6.755	6.680	6.830	200.220	250.000	-19.9

PEM

Data File: PD088498.D **Date Acquired** 5/13/2025 9:41

Operator: AR\AJ

ENDRIN BREAK DOWN

Column #1

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down Down
Endrin	6.57	177244119.1	181454592.7	4210473.63	**2.32**
Endrin aldehyde	6.92	1009509.166			
Endrin ketone	7.63	3200964.467			

Column #2

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down
Endrin #2	5.79	941050922.5	977842641.7	36791719.2	**3.76**
Endrin aldehyde #2	6.26	12256261.66			
Endrin ketone #2	6.99	24535457.53			

DDT BREAK DOWN

Column #1

Name	RT	Response	Response [DDT+DDE+DDD	Response [DDE+DDD]	% Break Down
4,4'-DDT	7.02	332149556.5	336484886.9	4335330.38	**1.29**
4,4'-DDE	0.00	0			
4,4'-DDD	6.70	4335330.375			

Column #2

Name	RT	Response	Response [DDT+DDE+DDD	Response [DDE+DDD]	% Break Down
4,4'-DDT #2	6.18	1699406352	1725577036	26170683.3	**1.52**
4,4'-DDE #2	0.00	0			
4,4'-DDD #2	5.93	26170683.25			

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051325\
Data File : PD088498.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2025 09:41
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PEM

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/14/2025
Supervised By :mohammad ahmed 05/20/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 12:06:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	System Monitoring Compounds							
1)	SA Tetrachlo...	3.551	2.881	47263112	327.5E6	23.662	22.398	
28)	SA Decachlor...	9.074	8.073	78502399	385.3E6	23.730	20.847	
	Target Compounds							
2)	A alpha-BHC	4.000	3.394	46551953	265.9E6	10.796	11.632	
3)	MA gamma-BHC...	4.331	3.730	46855378	248.5E6	11.189	11.539	
6)	B beta-BHC	4.516	4.026	19897245	111.3E6	12.257	12.027	
14)	MA Endrin	6.575	5.790	177.2E6	941.1E6	59.427	51.699	
16)	A 4,4'-DDD	6.705	5.931	4335330	26170683	1.724	1.597	
17)	MA 4,4'-DDT	7.021	6.185	332.1E6	1699.4E6	119.584	99.868	
18)	B Endrin al...	6.917	6.259	1009509	12256262	0.437	0.921	#
20)	A Methoxychlor	7.494	6.755	406.3E6	1826.2E6	270.965	200.217	#
21)	B Endrin ke...	7.629	6.992	3200964	24535458	1.037m	1.312	#

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

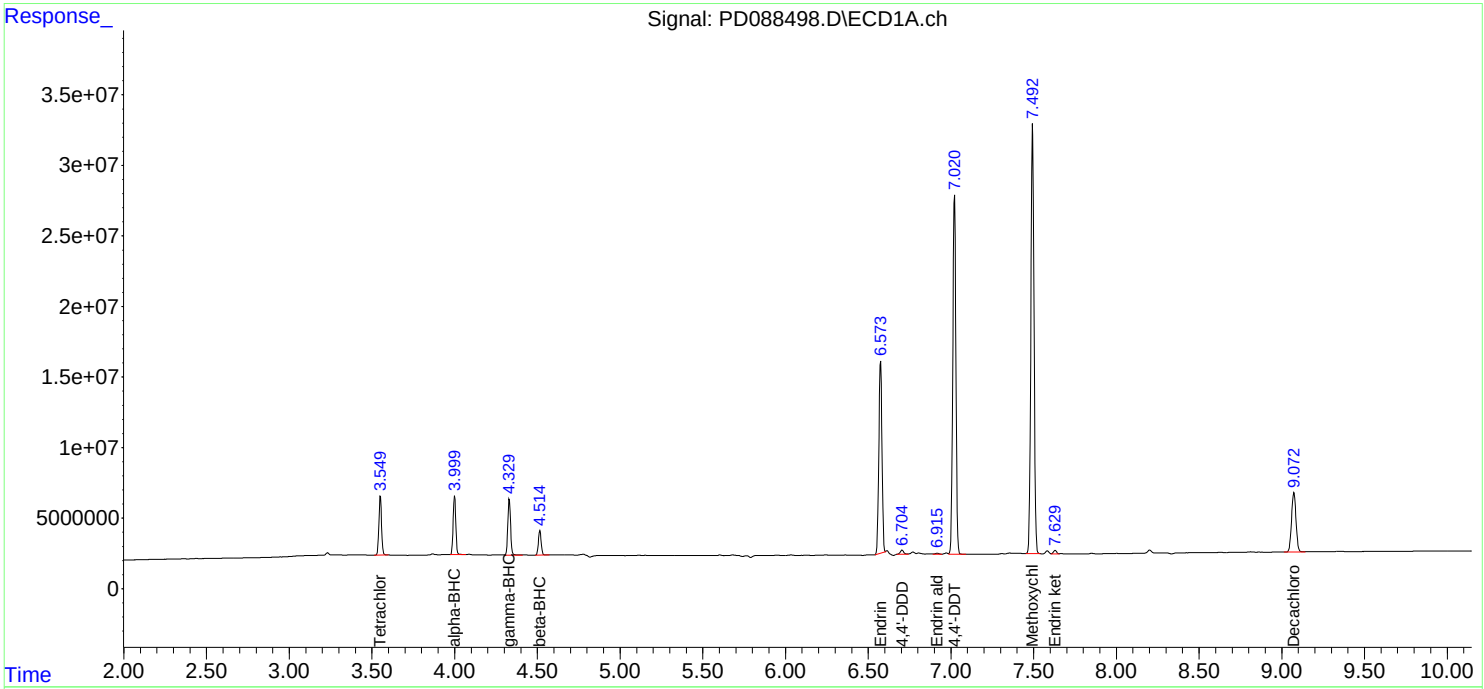
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051325\
Data File : PD088498.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2025 09:41
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

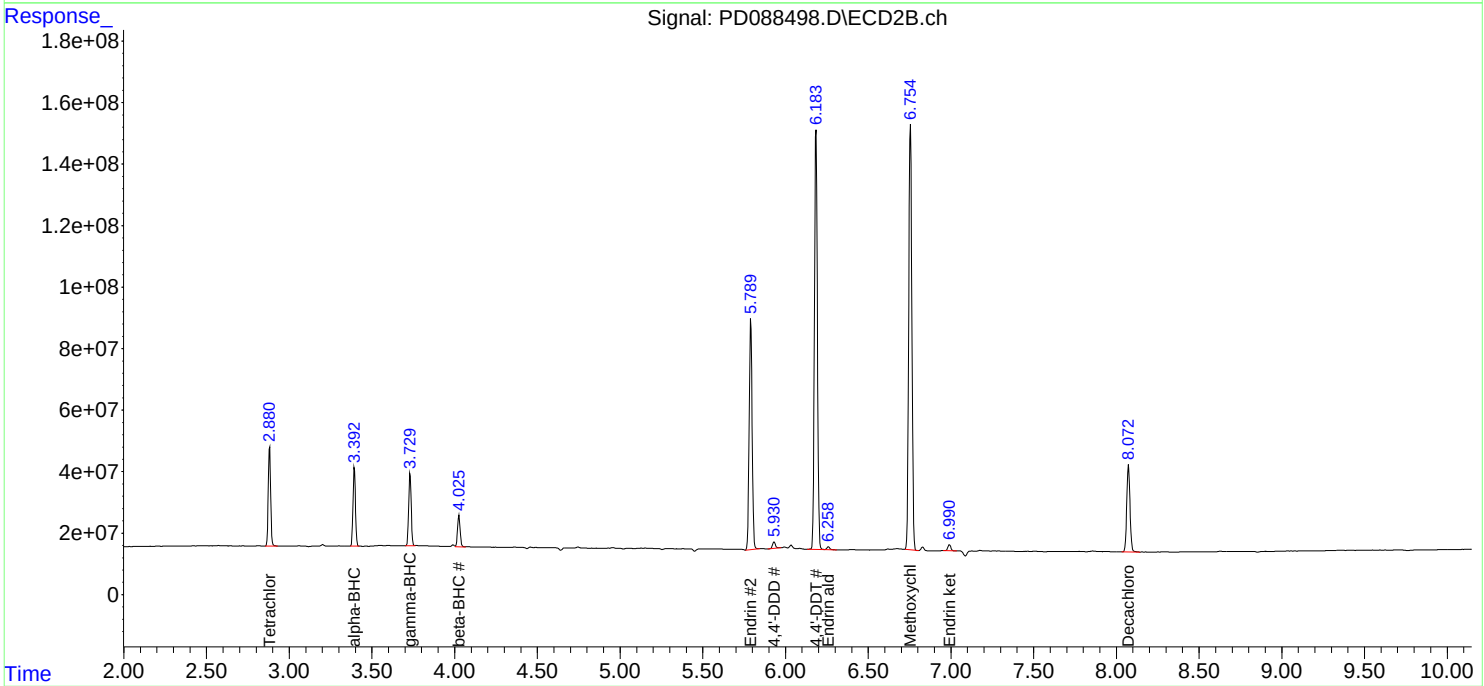
Instrument :
ECD_D
ClientSampleId :
PEM

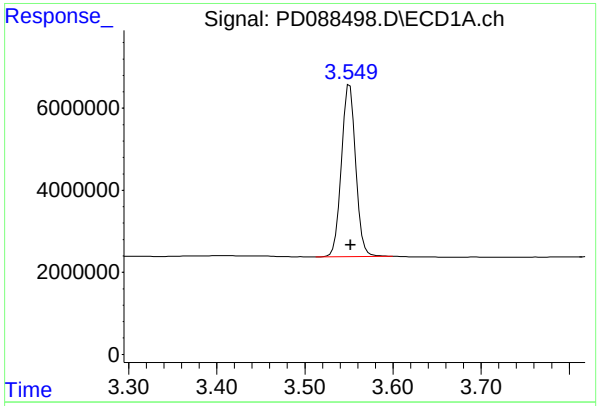
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/14/2025
Supervised By :mohammad ahmed 05/20/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 12:06:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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







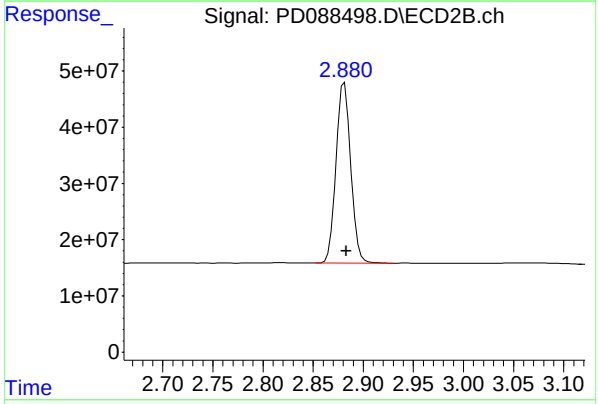
#1 Tetrachloro-m-xylene

R.T.: 3.551 min
Delta R.T.: -0.001 min
Response: 47263112
Conc: 23.66 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM

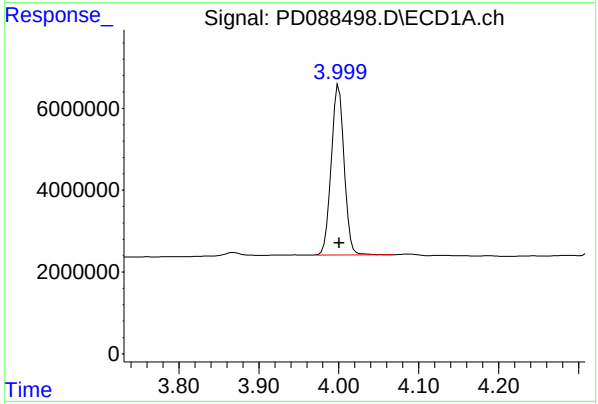
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/14/2025
Supervised By :mohammad ahmed 05/20/2025



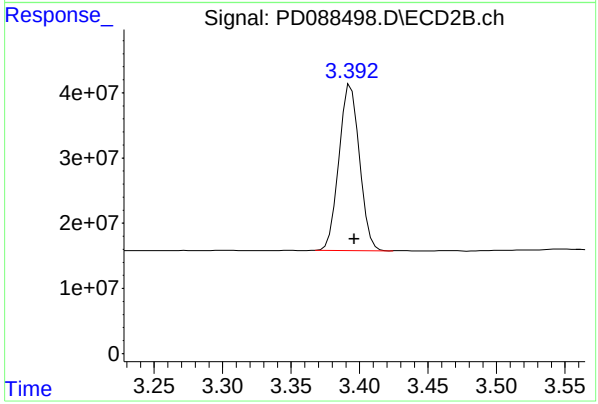
#1 Tetrachloro-m-xylene

R.T.: 2.881 min
Delta R.T.: -0.002 min
Response: 327493996
Conc: 22.40 ng/ml



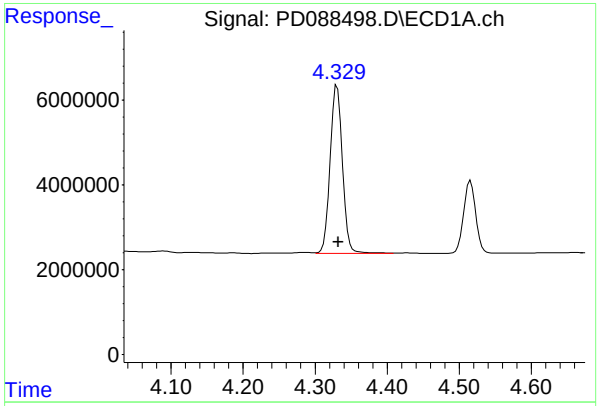
#2 alpha-BHC

R.T.: 4.000 min
Delta R.T.: -0.001 min
Response: 46551953
Conc: 10.80 ng/ml



#2 alpha-BHC

R.T.: 3.394 min
Delta R.T.: -0.002 min
Response: 265932482
Conc: 11.63 ng/ml



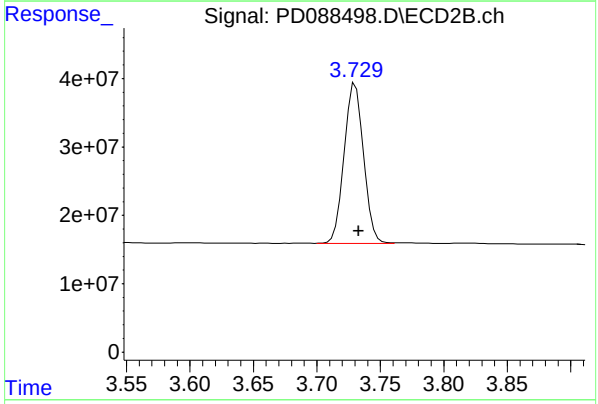
#3 gamma-BHC (Lindane)

R.T.: 4.331 min
Delta R.T.: -0.001 min
Response: 46855378
Conc: 11.19 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM

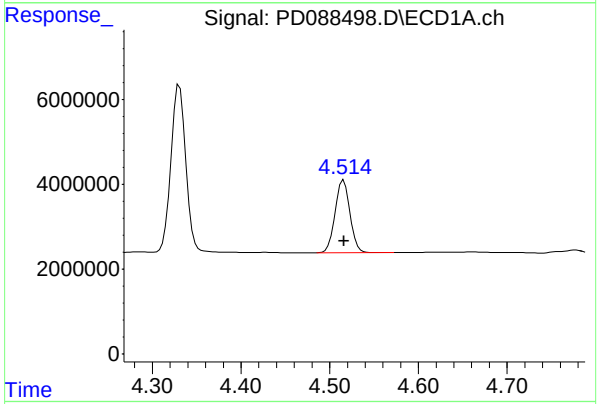
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/14/2025
Supervised By :mohammad ahmed 05/20/2025



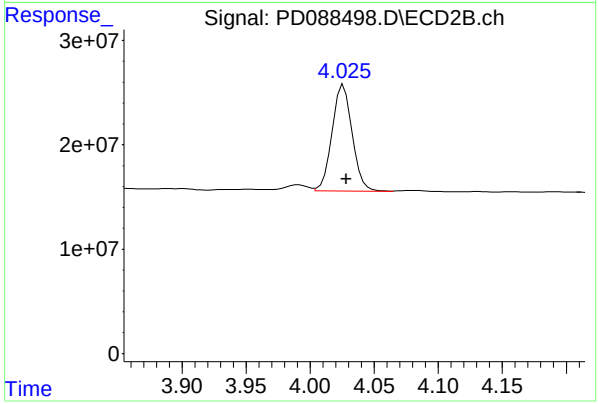
#3 gamma-BHC (Lindane)

R.T.: 3.730 min
Delta R.T.: -0.003 min
Response: 248541561
Conc: 11.54 ng/ml



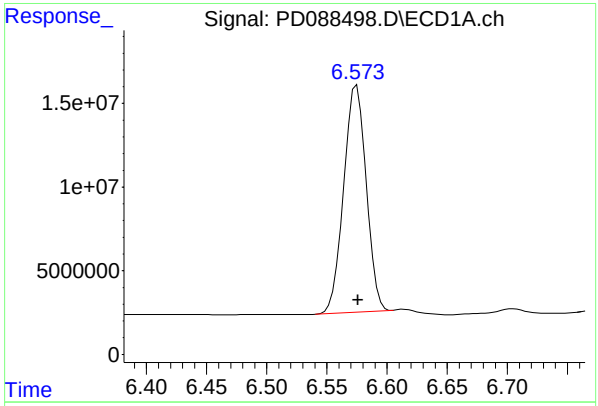
#6 beta-BHC

R.T.: 4.516 min
Delta R.T.: 0.000 min
Response: 19897245
Conc: 12.26 ng/ml



#6 beta-BHC

R.T.: 4.026 min
Delta R.T.: -0.002 min
Response: 111296685
Conc: 12.03 ng/ml



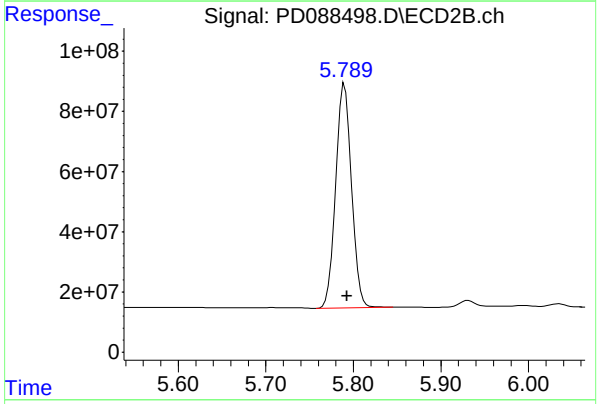
#14 Endrin

R.T.: 6.575 min
Delta R.T.: 0.000 min
Response: 177244119
Conc: 59.43 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM

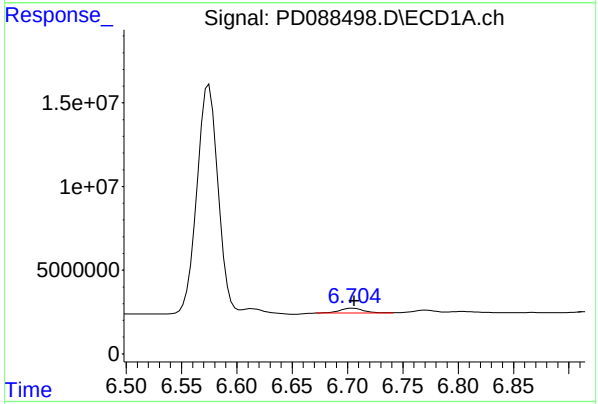
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/14/2025
Supervised By :mohammad ahmed 05/20/2025



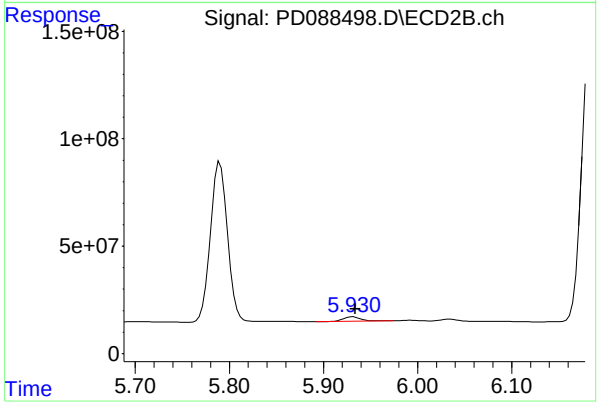
#14 Endrin

R.T.: 5.790 min
Delta R.T.: -0.003 min
Response: 941050923
Conc: 51.70 ng/ml



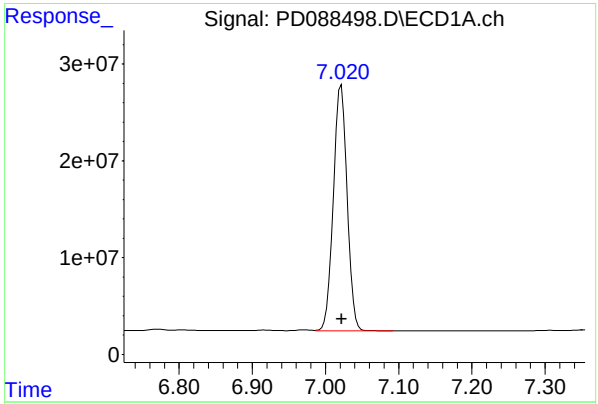
#16 4,4'-DDD

R.T.: 6.705 min
Delta R.T.: 0.000 min
Response: 4335330
Conc: 1.72 ng/ml



#16 4,4'-DDD

R.T.: 5.931 min
Delta R.T.: -0.003 min
Response: 26170683
Conc: 1.60 ng/ml



#17 4,4'-DDT

R.T.: 7.021 min
Delta R.T.: 0.000 min
Response: 332149557
Conc: 119.58 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM

Manual Integrations
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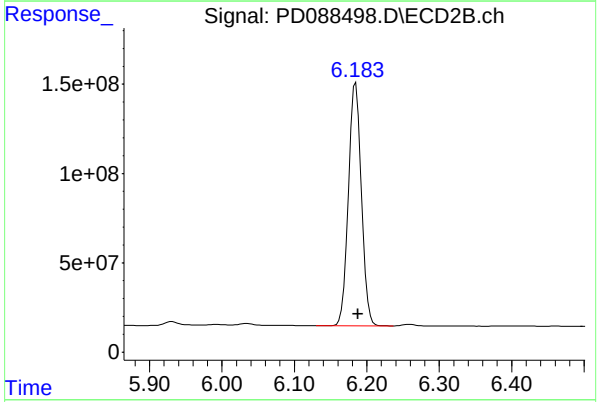
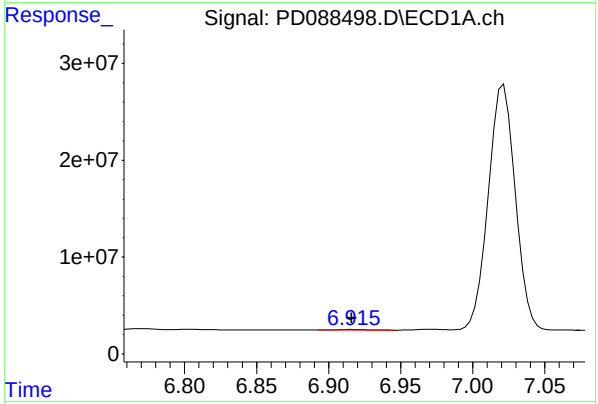
Reviewed By :Abdul Mirza 05/14/2025
Supervised By :mohammad ahmed 05/20/2025



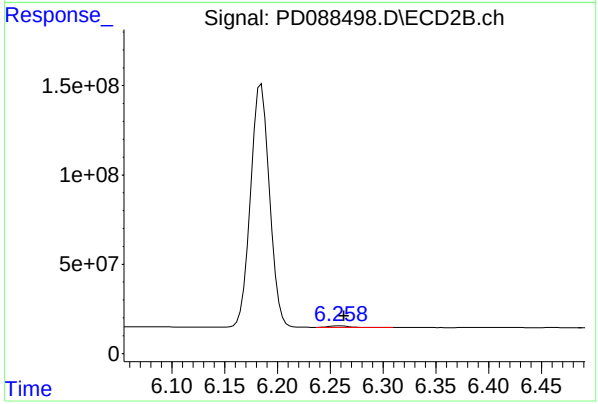
#17 4,4'-DDT

R.T.: 6.185 min
Delta R.T.: -0.003 min
Response: 1699406352
Conc: 99.87 ng/ml



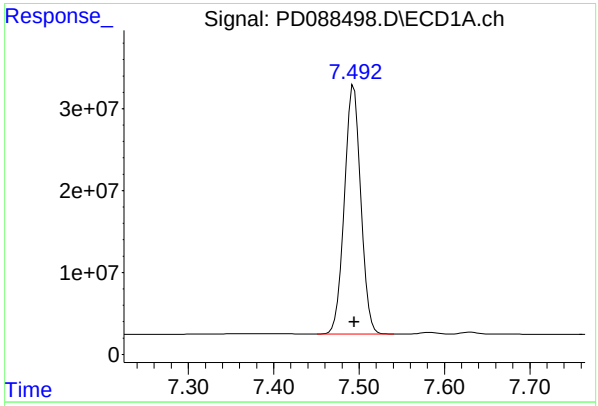
#18 Endrin aldehyde

R.T.: 6.917 min
Delta R.T.: 0.000 min
Response: 1009509
Conc: 0.44 ng/ml



#18 Endrin aldehyde

R.T.: 6.259 min
Delta R.T.: -0.004 min
Response: 12256262
Conc: 0.92 ng/ml



#20 Methoxychlor

R.T.: 7.494 min
Delta R.T.: 0.000 mi
Response: 406324878
Conc: 270.97 ng/m

Instrument :
ECD_D
ClientSampleId :
PEM

Manual Integrations
APPROVED

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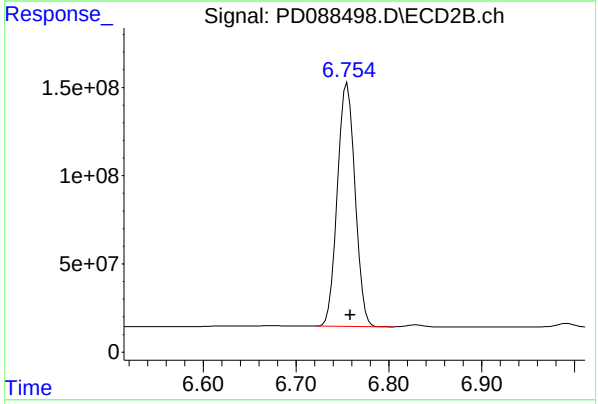
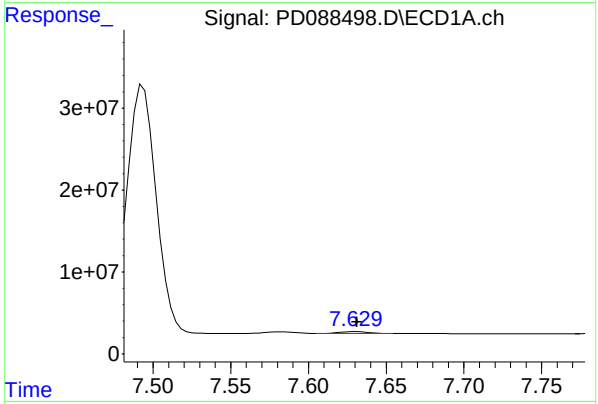


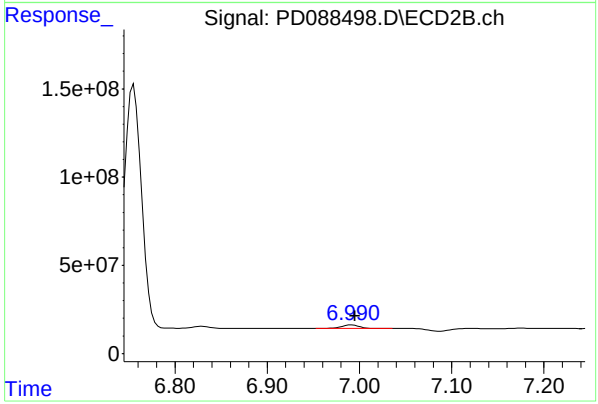
#20 Methoxychlor

R.T.: 6.755 min
Delta R.T.: -0.003 min
Response: 1826192895
Conc: 200.22 ng/ml



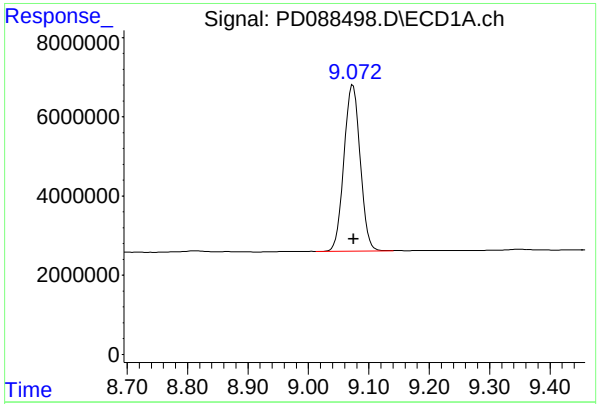
#21 Endrin ketone

R.T.: 7.629 min
Delta R.T.: -0.003 min
Response: 3200964
Conc: 1.04 ng/ml m



#21 Endrin ketone

R.T.: 6.992 min
Delta R.T.: -0.004 min
Response: 24535458
Conc: 1.31 ng/ml



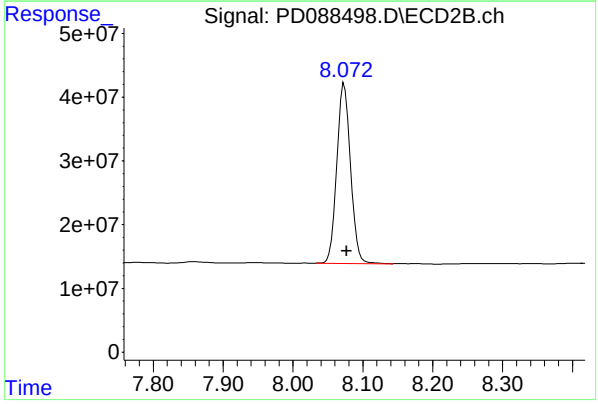
#28 Decachlorobiphenyl

R.T.: 9.074 min
Delta R.T.: -0.001 mi
Response: 78502399
Conc: 23.73 ng/m

Instrument :
ECD_D
ClientSampleId :
PEM

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/14/2025
Supervised By :mohammad ahmed 05/20/2025



#28 Decachlorobiphenyl

R.T.: 8.073 min
Delta R.T.: -0.004 min
Response: 385252038
Conc: 20.85 ng/ml

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

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No. (PEM): PEM - PD088552.D **Date Analyzed:** 05/15/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 09:18

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.081	8.980	9.180	22.250	20.000	11.3
Tetrachloro-m-xylene	3.556	3.510	3.610	22.310	20.000	11.6
alpha-BHC	4.005	3.950	4.060	10.210	10.000	2.1
beta-BHC	4.522	4.470	4.570	11.920	10.000	19.2
gamma-BHC (Lindane)	4.336	4.290	4.390	10.490	10.000	4.9
Endrin	6.581	6.510	6.650	55.090	50.000	10.2
4,4'-DDT	7.028	6.960	7.100	107.450	100.000	7.5
Methoxychlor	7.500	7.430	7.570	247.110	250.000	-1.2

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/18/2025 04/18/2025

Client Sample No. (PEM): PEM - PD088552.D **Date Analyzed:** 05/15/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 09:18

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.077	7.980	8.180	19.860	20.000	-0.7
Tetrachloro-m-xylene	2.882	2.830	2.930	20.810	20.000	4.1
alpha-BHC	3.395	3.340	3.450	10.740	10.000	7.4
beta-BHC	4.027	3.980	4.080	9.980	10.000	-0.2
gamma-BHC (Lindane)	3.731	3.680	3.780	10.690	10.000	6.9
Endrin	5.792	5.720	5.860	48.980	50.000	-2.0
4,4'-DDT	6.186	6.120	6.260	93.360	100.000	-6.6
Methoxychlor	6.758	6.690	6.830	186.490	250.000	-25.4

PEM

Data File: PD088552.D **Date Acquired** 5/15/2025 9:18

Operator: AR\AJ

ENDRIN BREAK DOWN

Column #1

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down Down
Endrin	6.58	164297390.4	168864366.1	4566975.76	**2.70**
Endrin aldehyde	6.92	723416.36			
Endrin ketone	7.63	3843559.4			

Column #2

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down
Endrin #2	5.79	891463757.3	971631305.9	80167548.6	**8.25**
Endrin aldehyde #2	6.26	12915764.25			
Endrin ketone #2	6.99	67251784.33			

DDT BREAK DOWN

Column #1

Name	RT	Response	Response [DDT+DDE+DDD	Response [DDE+DDD]	% Break Down
4,4'-DDT	7.03	298437565.5	305079753.3	6642187.8	**2.18**
4,4'-DDE	0.00	0			
4,4'-DDD	6.71	6642187.798			

Column #2

Name	RT	Response	Response [DDT+DDE+DDD	Response [DDE+DDD]	% Break Down
4,4'-DDT #2	6.19	1588602250	1623298150	34695900.1	**2.14**
4,4'-DDE #2	0.00	0			
4,4'-DDD #2	5.93	34695900.1			

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088552.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 09:18
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PEM

Manual Integrations APPROVED
Reviewed By :Abdul Mirza
05/16/2025
Supervised By :mohammad ahmed
05/19/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:16:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.556	2.882	44559178	304.3E6	22.309	20.812
28)	SA Decachlor...	9.081	8.077	73616746	367.0E6	22.253	19.861
	Target Compounds						
2)	A alpha-BHC	4.005	3.395	44045223	245.5E6	10.215	10.739
3)	MA gamma-BHC...	4.336	3.731	43946740	230.3E6	10.495	10.690
6)	B beta-BHC	4.522	4.027	19344346	92316778	11.916	9.976
14)	MA Endrin	6.581	5.792	164.3E6	891.5E6	55.086	48.975
16)	A 4,4'-DDD	6.711	5.932	6642188	34695900	2.641m	2.117
17)	MA 4,4'-DDT	7.028	6.186	298.4E6	1588.6E6	107.447	93.357
18)	B Endrin al...	6.922	6.259	723416	12915764	0.313m	0.971m#
20)	A Methoxychlor	7.500	6.758	370.6E6	1701.0E6	247.109	186.494
21)	B Endrin ke...	7.634	6.993	3843559	18380302	1.245m	0.983m

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

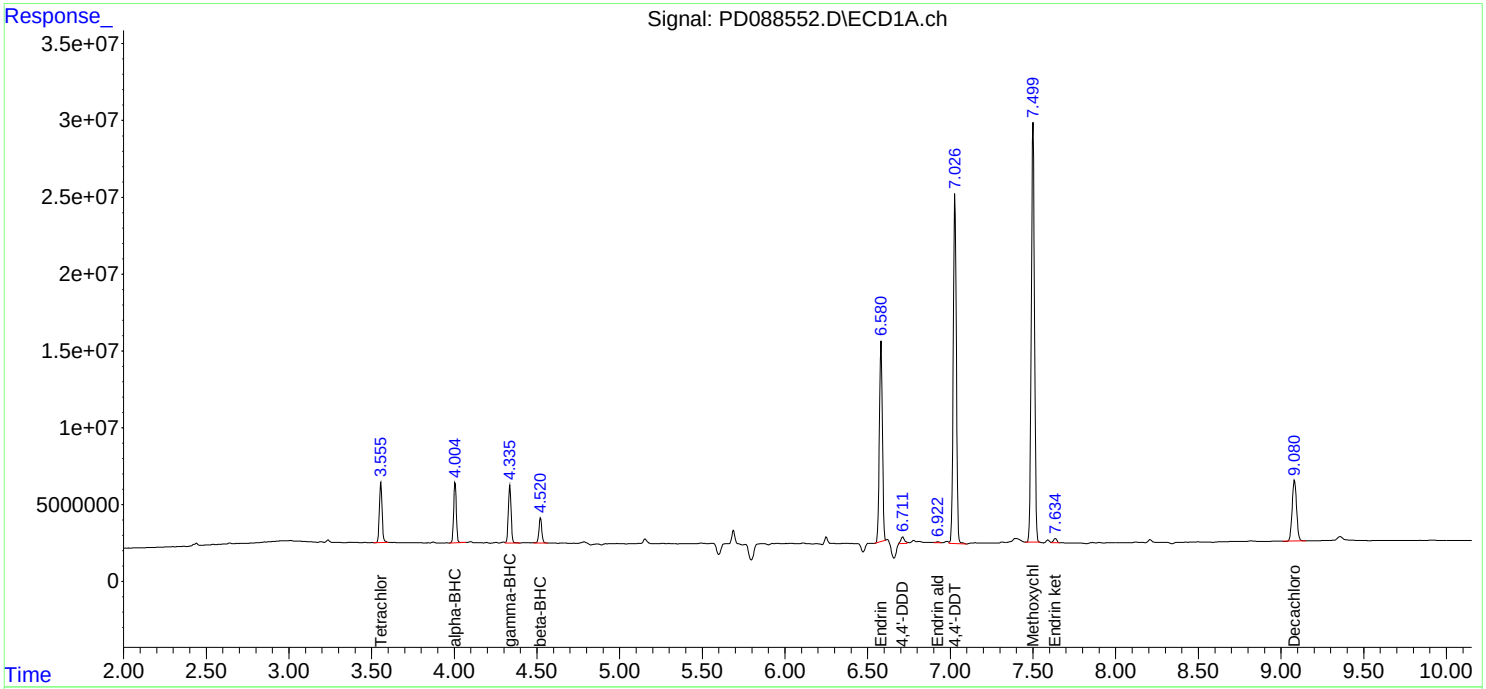
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088552.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 09:18
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

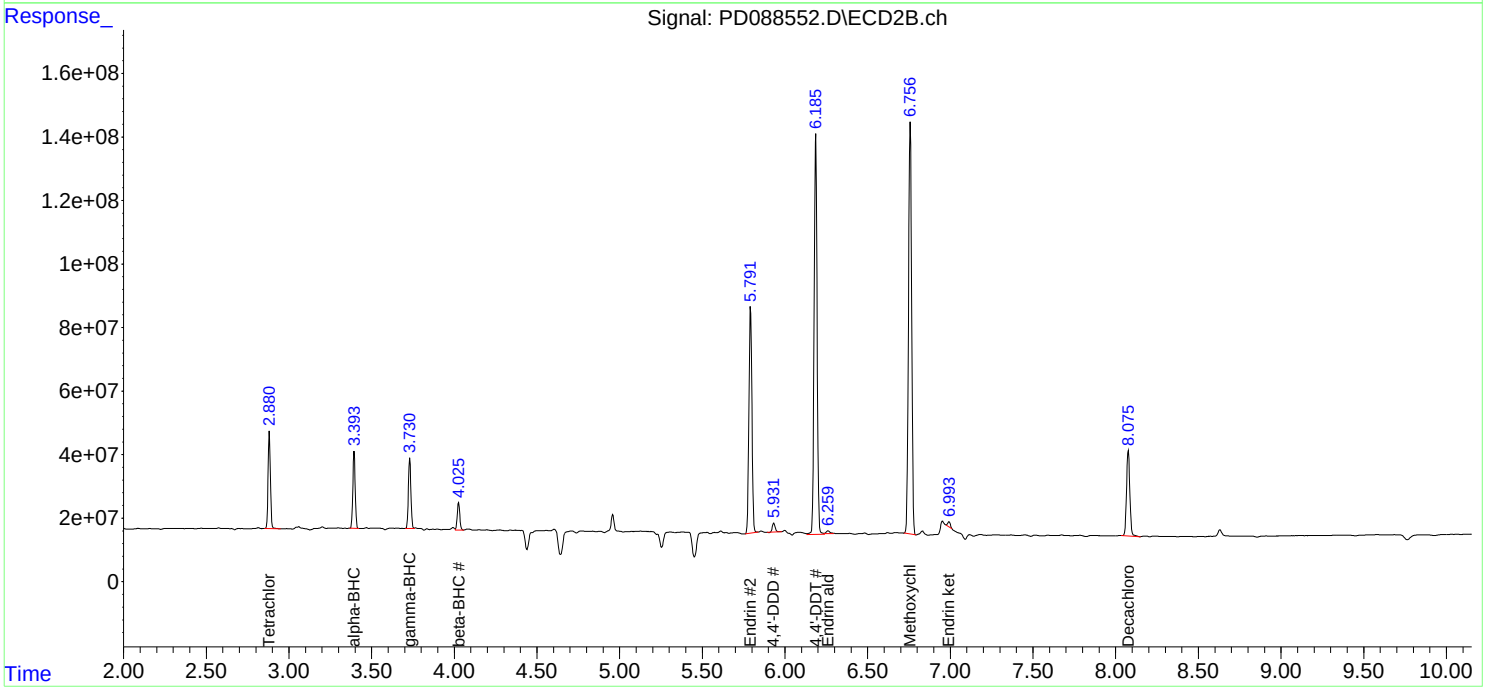
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:16:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

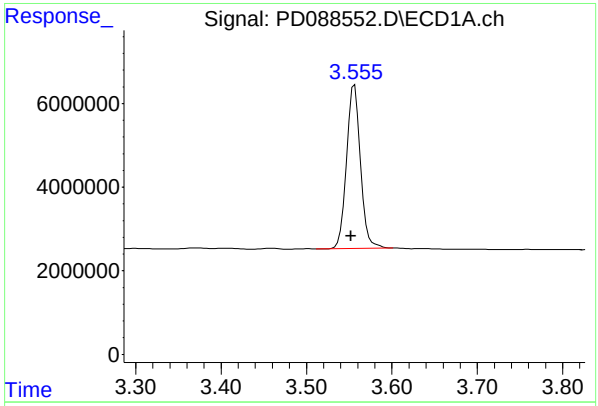
Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Instrument :
ECD_D
ClientSampleId :
PEM

Manual Integrations APPROVED
Reviewed By :Abdul Mirza
05/16/2025
Supervised By :mohammad ahmed
05/19/2025







#1 Tetrachloro-m-xylene

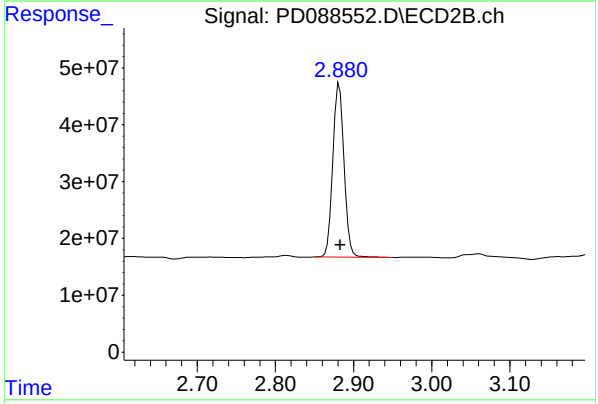
R.T.: 3.556 min
Delta R.T.: 0.004 min
Response: 44559178
Conc: 22.31 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM

Manual Integrations APPROVED

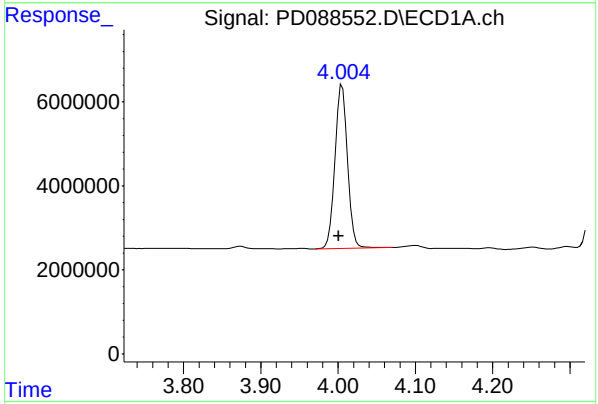
Reviewed By :Abdul Mirza
05/16/2025

Supervised By :mohammad ahmed
05/19/2025



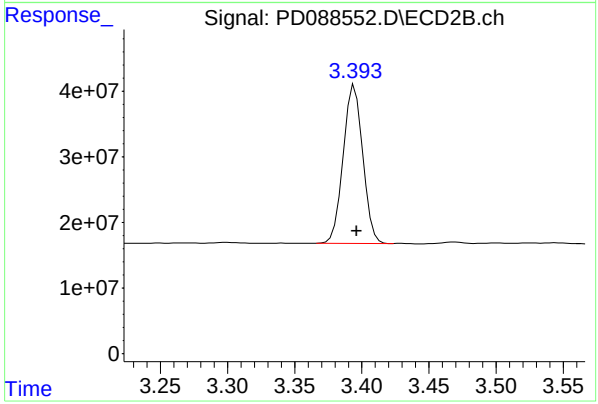
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: -0.001 min
Response: 304304325
Conc: 20.81 ng/ml



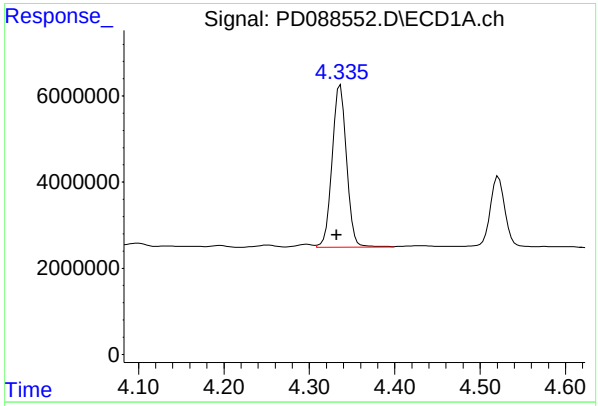
#2 alpha-BHC

R.T.: 4.005 min
Delta R.T.: 0.004 min
Response: 44045223
Conc: 10.21 ng/ml



#2 alpha-BHC

R.T.: 3.395 min
Delta R.T.: -0.002 min
Response: 245512559
Conc: 10.74 ng/ml



#3 gamma-BHC (Lindane)

R.T.: 4.336 min
Delta R.T.: 0.005 min
Response: 43946740
Conc: 10.49 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM

Manual Integrations APPROVED

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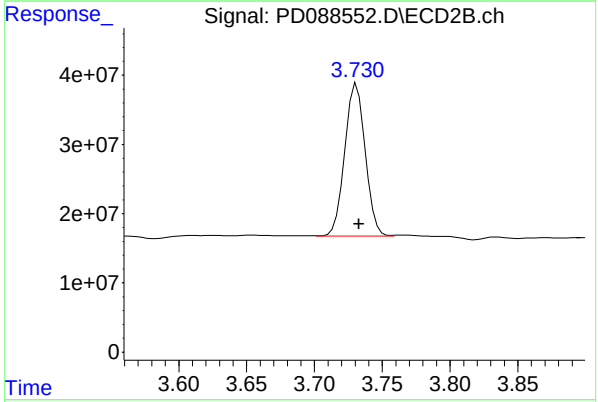
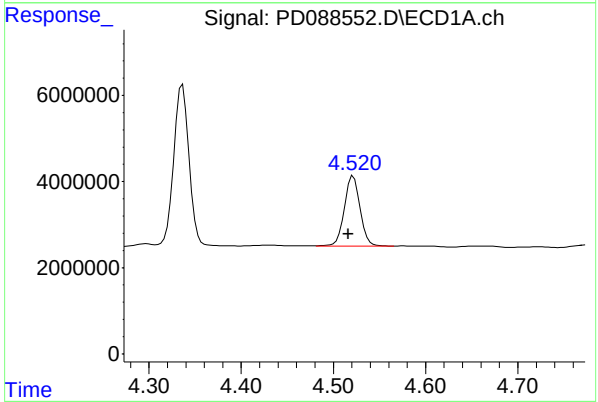
05/16/2025

Supervised By :mohammad ahmed
05/19/2025



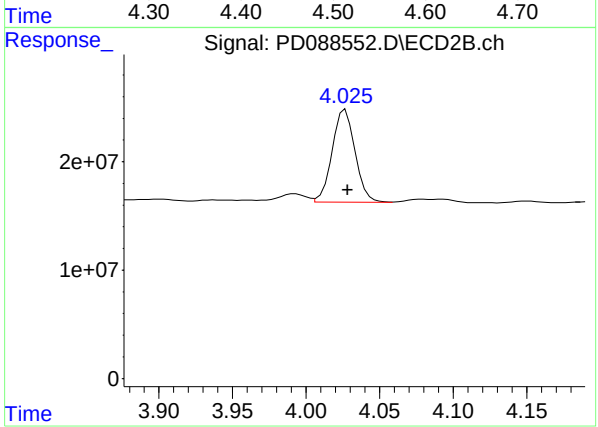
#3 gamma-BHC (Lindane)

R.T.: 3.731 min
Delta R.T.: -0.002 min
Response: 230251284
Conc: 10.69 ng/ml



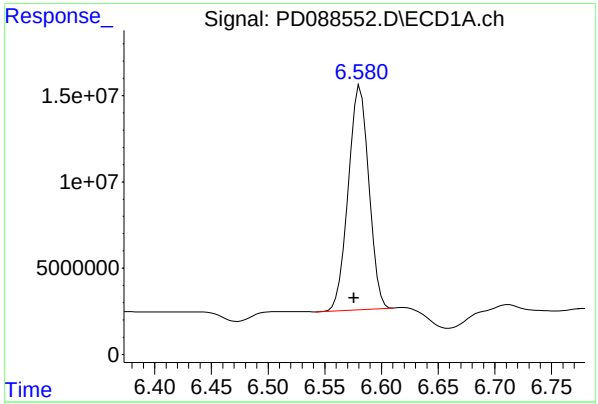
#6 beta-BHC

R.T.: 4.522 min
Delta R.T.: 0.005 min
Response: 19344346
Conc: 11.92 ng/ml



#6 beta-BHC

R.T.: 4.027 min
Delta R.T.: -0.002 min
Response: 92316778
Conc: 9.98 ng/ml



#14 Endrin

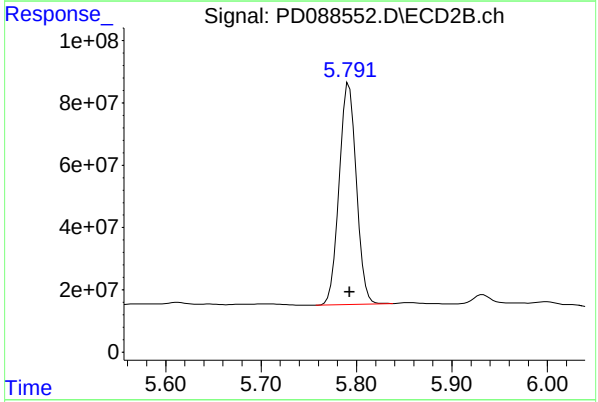
R.T.: 6.581 min
Delta R.T.: 0.005 min
Response: 164297390
Conc: 55.09 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM

Manual Integrations APPROVED

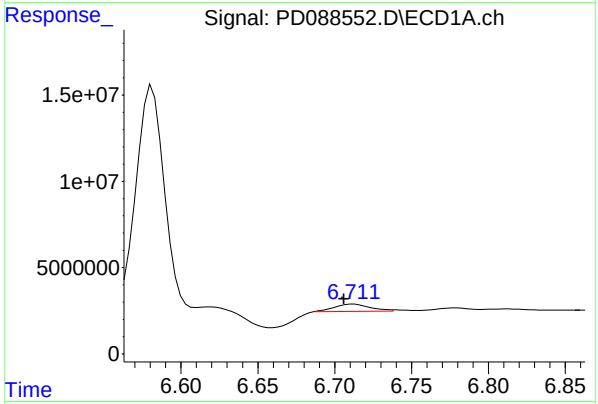
Reviewed By :Abdul Mirza
05/16/2025

Supervised By :mohammad ahmed
05/19/2025



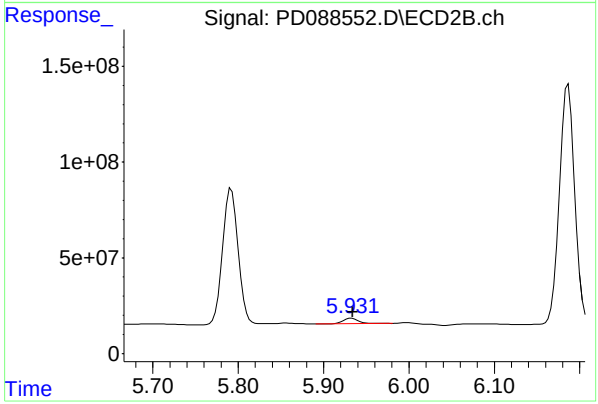
#14 Endrin

R.T.: 5.792 min
Delta R.T.: 0.000 min
Response: 891463757
Conc: 48.98 ng/ml



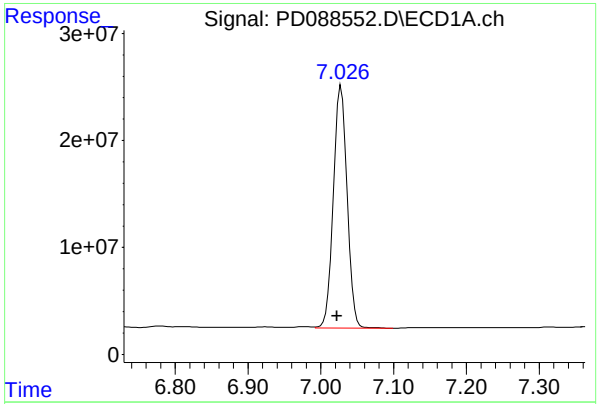
#16 4,4'-DDD

R.T.: 6.711 min
Delta R.T.: 0.005 min
Response: 6642188
Conc: 2.64 ng/ml m



#16 4,4'-DDD

R.T.: 5.932 min
Delta R.T.: -0.002 min
Response: 34695900
Conc: 2.12 ng/ml



#17 4,4'-DDT

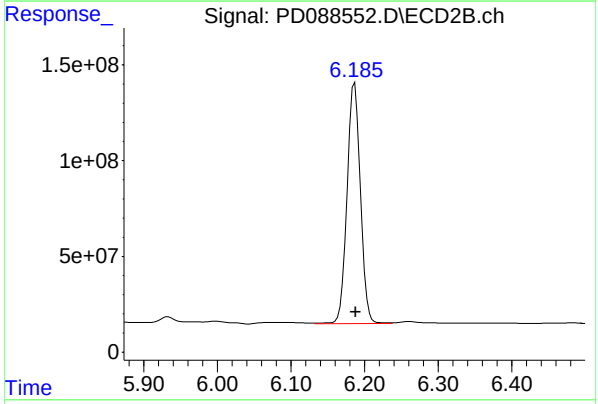
R.T.: 7.028 min
Delta R.T.: 0.006 mi
Response: 298437565
Conc: 107.45 ng/m

Instrument :
ECD_D
ClientSampleId :
PEM

Manual Integrations APPROVED

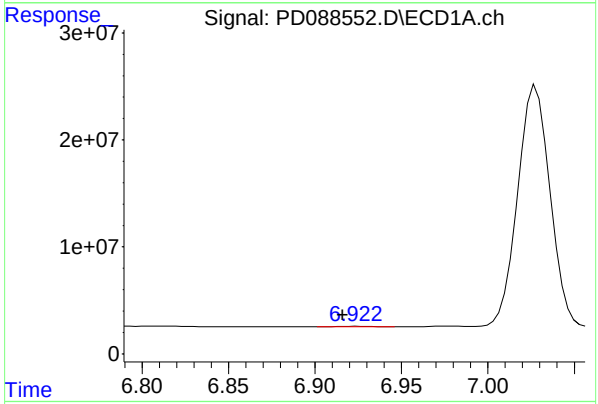
Reviewed By :Abdul Mirza
05/16/2025

Supervised By :mohammad ahmed
05/19/2025



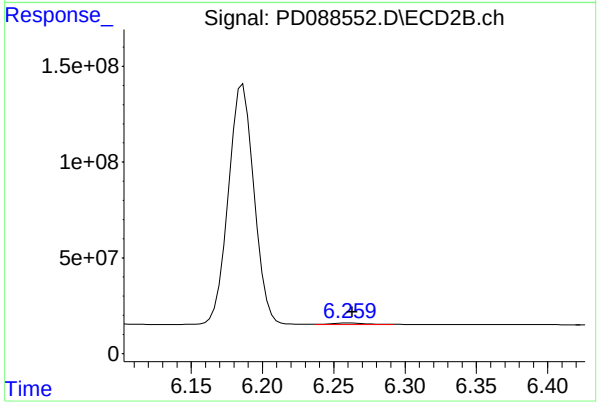
#17 4,4'-DDT

R.T.: 6.186 min
Delta R.T.: -0.002 min
Response: 1588602250
Conc: 93.36 ng/ml



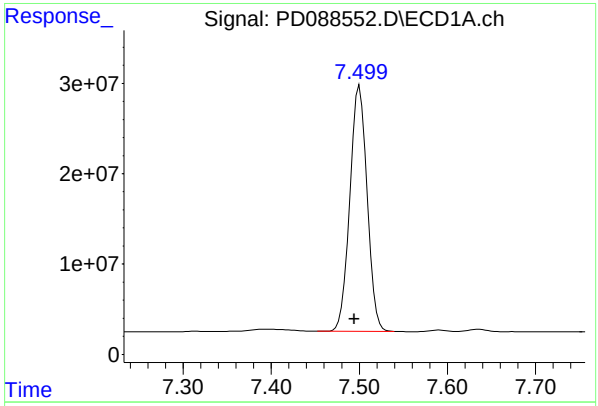
#18 Endrin aldehyde

R.T.: 6.922 min
Delta R.T.: 0.006 min
Response: 723416
Conc: 0.31 ng/ml m



#18 Endrin aldehyde

R.T.: 6.259 min
Delta R.T.: -0.003 min
Response: 12915764
Conc: 0.97 ng/ml m



#20 Methoxychlor

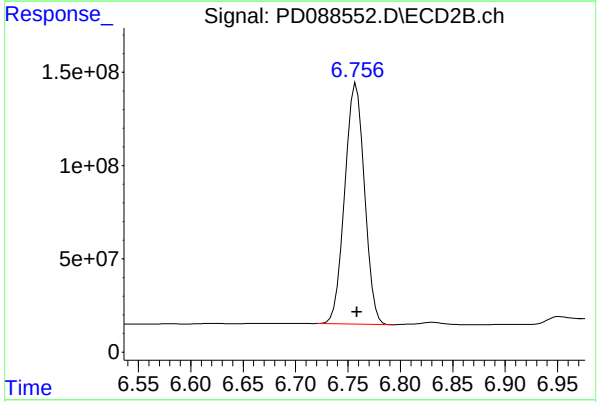
R.T.: 7.500 min
Delta R.T.: 0.006 mi
Response: 370551685
Conc: 247.11 ng/m

Instrument :
ECD_D
ClientSampleId :
PEM

Manual Integrations APPROVED

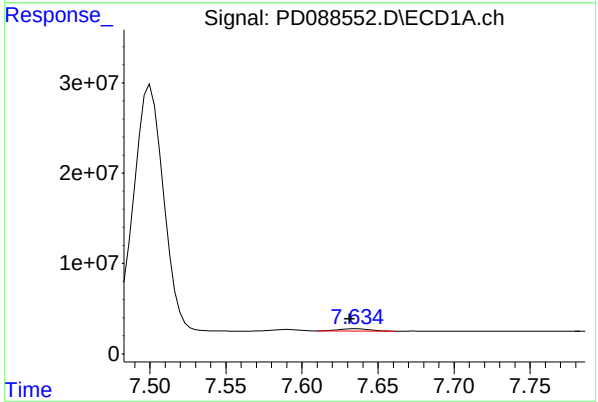
Reviewed By :Abdul Mirza
05/16/2025

Supervised By :mohammad ahmed
05/19/2025



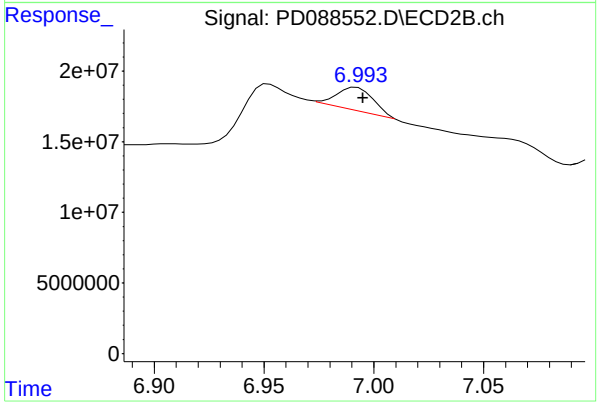
#20 Methoxychlor

R.T.: 6.758 min
Delta R.T.: 0.000 min
Response: 1701019683
Conc: 186.49 ng/ml



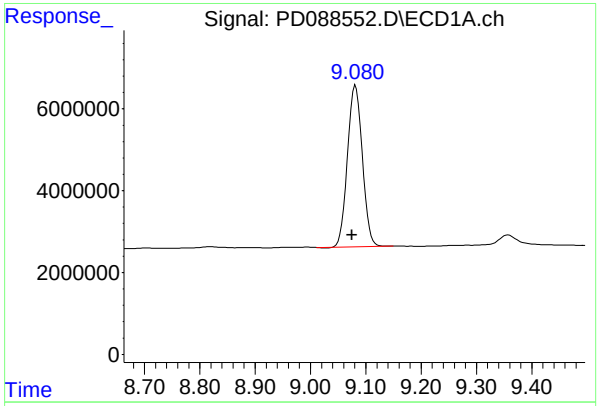
#21 Endrin ketone

R.T.: 7.634 min
Delta R.T.: 0.003 min
Response: 3843559
Conc: 1.25 ng/ml m



#21 Endrin ketone

R.T.: 6.993 min
Delta R.T.: -0.002 min
Response: 18380302
Conc: 0.98 ng/ml m



#28 Decachlorobiphenyl

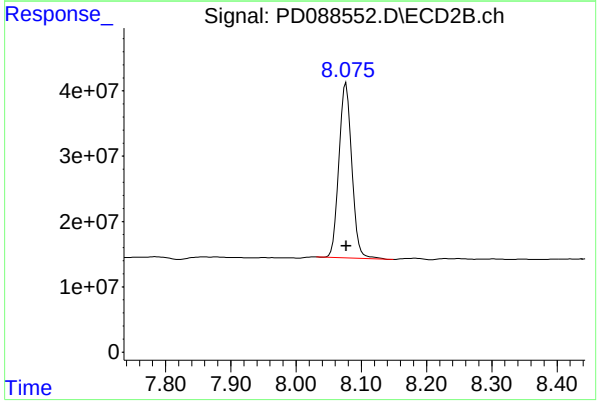
R.T.: 9.081 min
Delta R.T.: 0.006 min
Response: 73616746
Conc: 22.25 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM

Manual Integrations APPROVED

Reviewed By :Abdul Mirza
05/16/2025

Supervised By :mohammad ahmed
05/19/2025



#28 Decachlorobiphenyl

R.T.: 8.077 min
Delta R.T.: 0.000 min
Response: 367017270
Conc: 19.86 ng/ml

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

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No. (PEM): PEM - PD088584.D **Date Analyzed:** 05/19/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 11:04

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.076	8.980	9.180	21.510	20.000	7.6
Tetrachloro-m-xylene	3.550	3.500	3.600	19.960	20.000	-0.2
alpha-BHC	3.999	3.950	4.050	9.120	10.000	-8.8
beta-BHC	4.516	4.470	4.570	10.260	10.000	2.6
gamma-BHC (Lindane)	4.331	4.280	4.380	9.460	10.000	-5.4
Endrin	6.576	6.510	6.650	50.860	50.000	1.7
4,4'-DDT	7.023	6.950	7.090	101.210	100.000	1.2
Methoxychlor	7.495	7.420	7.570	234.710	250.000	-6.1

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No. (PEM): PEM - PD088584.D **Date Analyzed:** 05/19/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 11:04

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.076	7.980	8.180	20.960	20.000	4.8
Tetrachloro-m-xylene	2.881	2.830	2.930	20.340	20.000	1.7
alpha-BHC	3.394	3.340	3.440	10.570	10.000	5.7
beta-BHC	4.027	3.980	4.080	10.990	10.000	9.9
gamma-BHC (Lindane)	3.731	3.680	3.780	10.670	10.000	6.7
Endrin	5.792	5.720	5.860	48.470	50.000	-3.1
4,4'-DDT	6.186	6.120	6.260	95.100	100.000	-4.9
Methoxychlor	6.757	6.690	6.830	195.630	250.000	-21.7

PEM

Data File: PD088584.D **Date Acquired** 5/19/2025 11:04

Operator: AR\AJ

ENDRIN BREAK DOWN

Column #1

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down Down
Endrin	6.58	173685081.8	175498963.3	1813881.45	**1.03**
Endrin aldehyde	6.92	496243.147			
Endrin ketone	7.63	1317638.301			

Column #2

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down
Endrin #2	5.79	934754801	952277943.5	17523142.5	**1.84**
Endrin aldehyde #2	6.26	8463657.028			
Endrin ketone #2	6.99	9059485.439			

DDT BREAK DOWN

Column #1

Name	RT	Response	Response [DDT+DDE+DDD	Response [DDE+DDD]	% Break Down
4,4'-DDT	7.02	315976412.5	316568194.8	591782.32	**0.19**
4,4'-DDE	0.00	0			
4,4'-DDD	6.70	591782.32			

Column #2

Name	RT	Response	Response [DDT+DDE+DDD	Response [DDE+DDD]	% Break Down
4,4'-DDT #2	6.19	1724841287	1729650955	4809667.73	**0.28**
4,4'-DDE #2	0.00	0			
4,4'-DDD #2	5.93	4809667.734			

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088584.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 11:04
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PEM

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 14:00:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 13:57:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.550	2.881	43185677	307.7E6	19.959	20.343
28)	SA Decachlor...	9.076	8.076	73616024	382.7E6	21.510	20.961
	Target Compounds						
2)	A alpha-BHC	3.999	3.394	43541198	252.7E6	9.116	10.572
3)	MA gamma-BHC...	4.331	3.731	43519433	236.4E6	9.455	10.667
6)	B beta-BHC	4.516	4.027	18494243	107.0E6	10.257	10.988
14)	MA Endrin	6.576	5.792	173.7E6	934.8E6	50.857	48.473
16)	A 4,4'-DDD	6.705	5.935	591782	4809668	0.212m	0.277m#
17)	MA 4,4'-DDT	7.023	6.186	316.0E6	1724.8E6	101.208	95.099
18)	B Endrin al...	6.919	6.258	496243	8463657	0.193m	0.608m#
20)	A Methoxychlor	7.495	6.757	392.1E6	1873.1E6	234.711	195.632
21)	B Endrin ke...	7.631	6.992	1317638	9059485	0.385m	0.468m

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

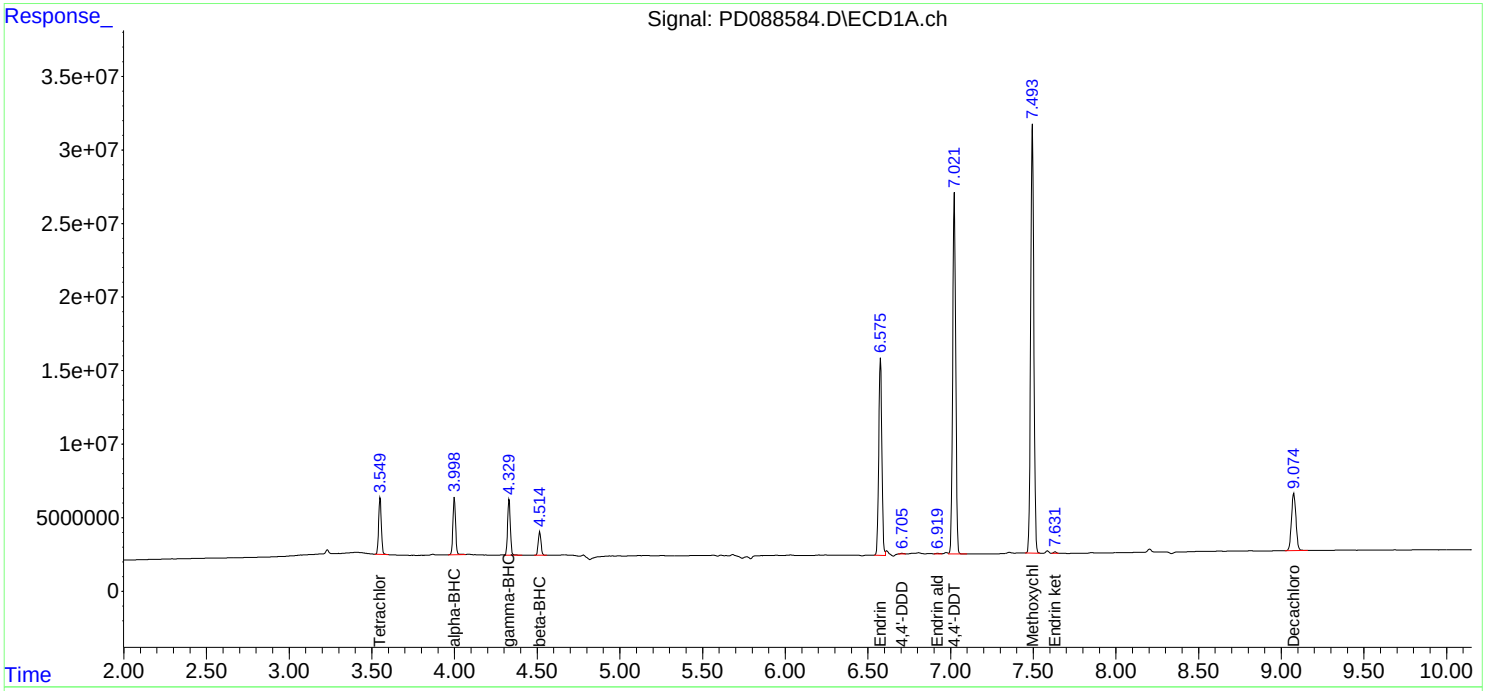
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088584.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 11:04
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

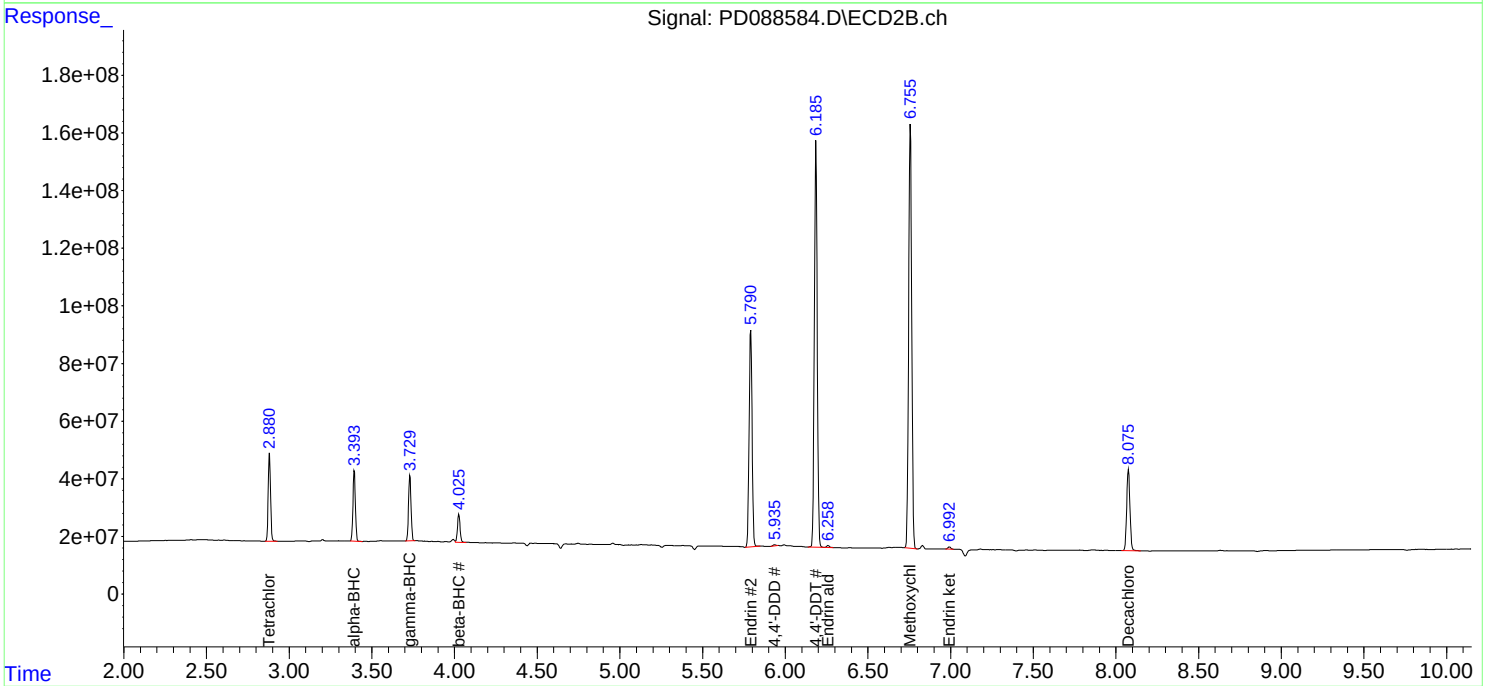
Instrument :
ECD_D
ClientSampleId :
PEM

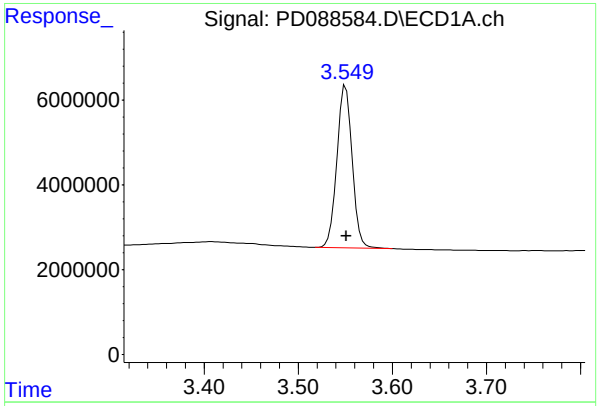
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 14:00:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 13:57:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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







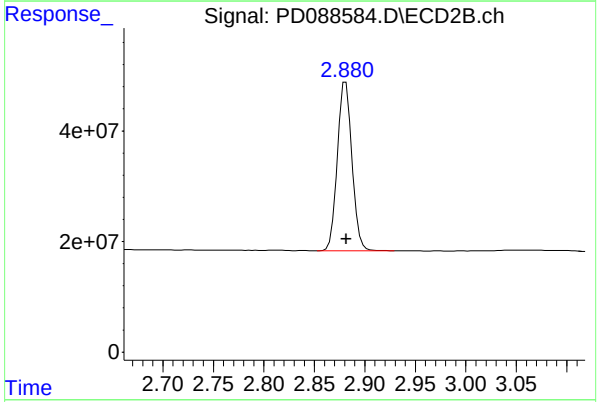
#1 Tetrachloro-m-xylene

R.T.: 3.550 min
Delta R.T.: 0.000 min
Response: 43185677
Conc: 19.96 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM

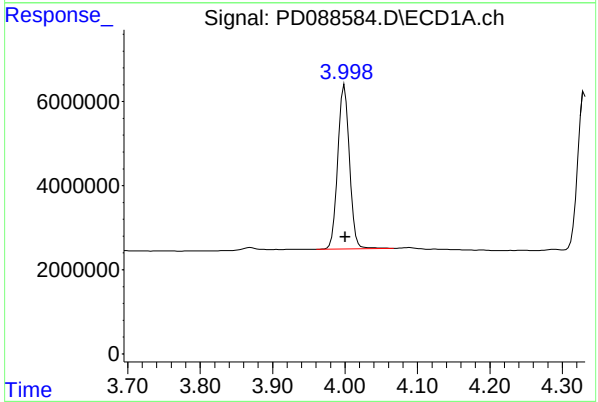
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



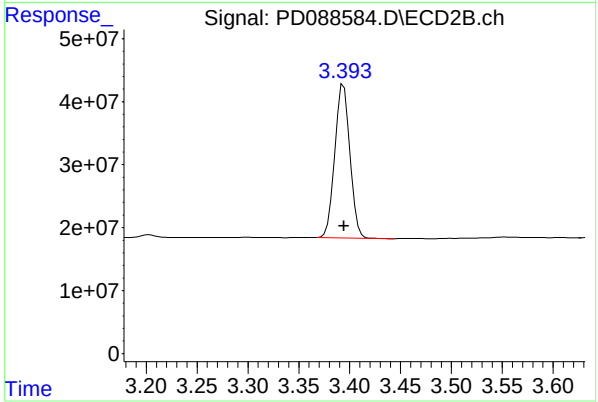
#1 Tetrachloro-m-xylene

R.T.: 2.881 min
Delta R.T.: 0.000 min
Response: 307731812
Conc: 20.34 ng/ml



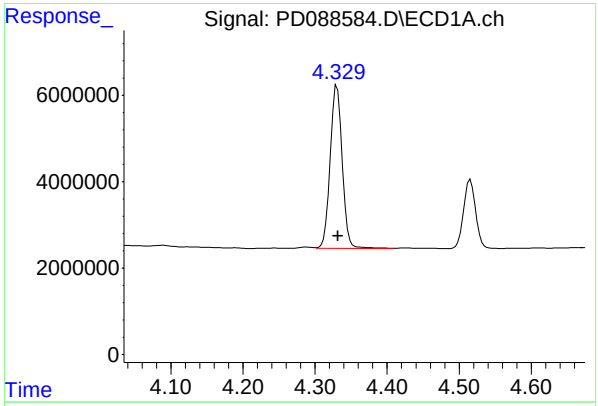
#2 alpha-BHC

R.T.: 3.999 min
Delta R.T.: -0.001 min
Response: 43541198
Conc: 9.12 ng/ml



#2 alpha-BHC

R.T.: 3.394 min
Delta R.T.: 0.000 min
Response: 252707737
Conc: 10.57 ng/ml



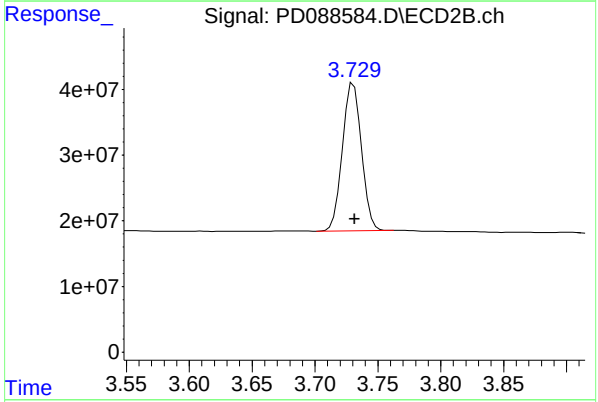
#3 gamma-BHC (Lindane)

R.T.: 4.331 min
Delta R.T.: -0.001 min
Response: 43519433
Conc: 9.46 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM

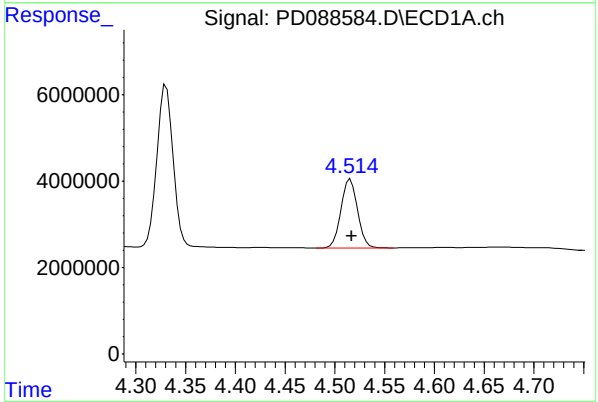
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



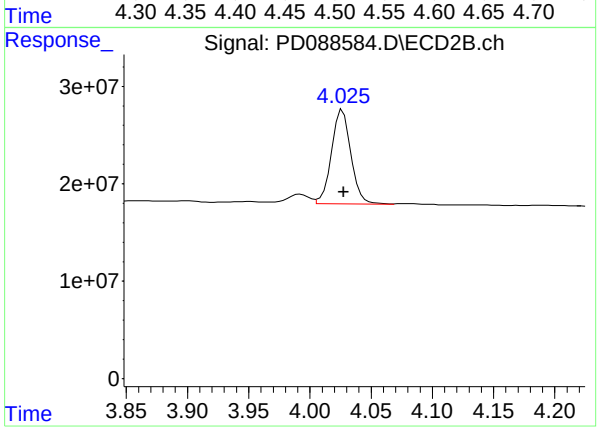
#3 gamma-BHC (Lindane)

R.T.: 3.731 min
Delta R.T.: 0.000 min
Response: 236443252
Conc: 10.67 ng/ml



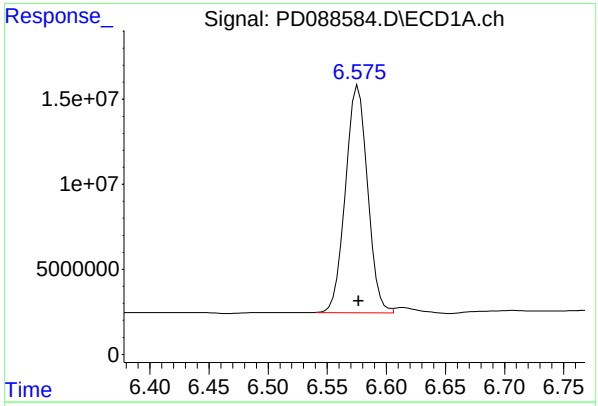
#6 beta-BHC

R.T.: 4.516 min
Delta R.T.: -0.001 min
Response: 18494243
Conc: 10.26 ng/ml



#6 beta-BHC

R.T.: 4.027 min
Delta R.T.: 0.000 min
Response: 107044796
Conc: 10.99 ng/ml



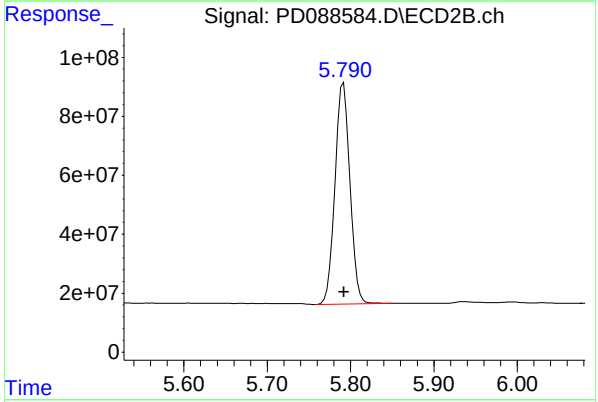
#14 Endrin

R.T.: 6.576 min
Delta R.T.: 0.000 mi
Response: 173685082
Conc: 50.86 ng/m

Instrument :
ECD_D
ClientSampleId :
PEM

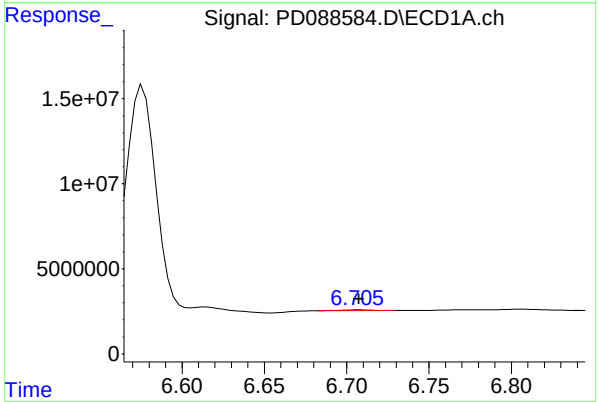
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



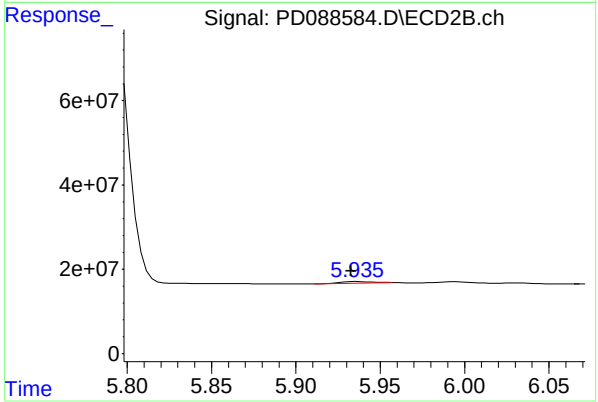
#14 Endrin

R.T.: 5.792 min
Delta R.T.: 0.000 min
Response: 934754801
Conc: 48.47 ng/ml



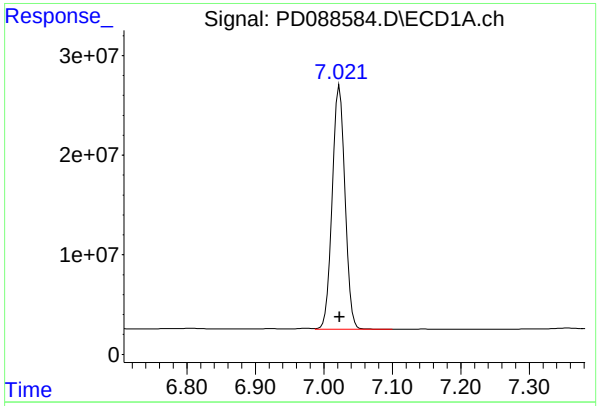
#16 4,4'-DDD

R.T.: 6.705 min
Delta R.T.: -0.003 min
Response: 591782
Conc: 0.21 ng/ml m



#16 4,4'-DDD

R.T.: 5.935 min
Delta R.T.: 0.002 min
Response: 4809668
Conc: 0.28 ng/ml m



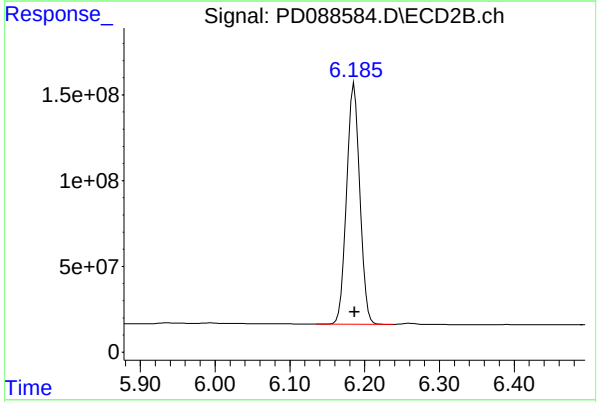
#17 4,4'-DDT

R.T.: 7.023 min
Delta R.T.: 0.000 mi
Response: 315976412
Conc: 101.21 ng/m

Instrument :
ECD_D
ClientSampleId :
PEM

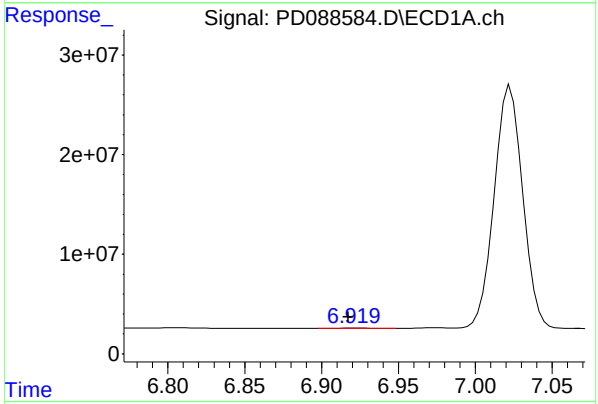
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



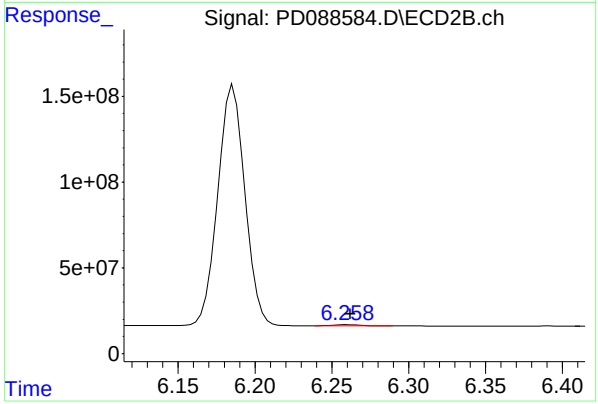
#17 4,4'-DDT

R.T.: 6.186 min
Delta R.T.: 0.000 min
Response: 1724841287
Conc: 95.10 ng/ml



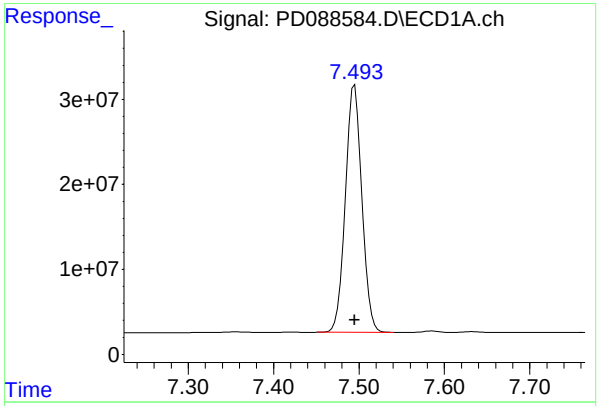
#18 Endrin aldehyde

R.T.: 6.919 min
Delta R.T.: 0.002 min
Response: 496243
Conc: 0.19 ng/ml m



#18 Endrin aldehyde

R.T.: 6.258 min
Delta R.T.: -0.004 min
Response: 8463657
Conc: 0.61 ng/ml m



#20 Methoxychlor

R.T.: 7.495 min
Delta R.T.: 0.000 mi
Response: 392097860
Conc: 234.71 ng/m

Instrument :
ECD_D
ClientSampleId :
PEM

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/20/2025
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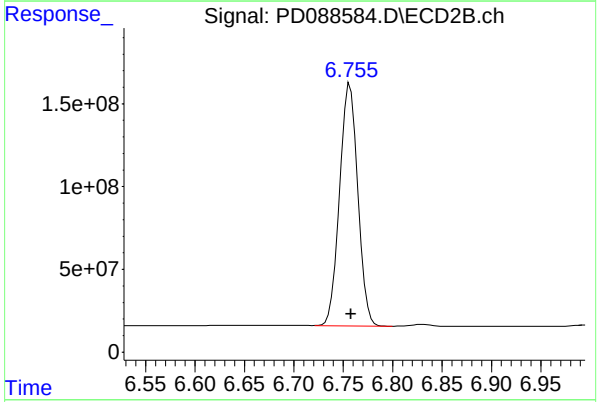
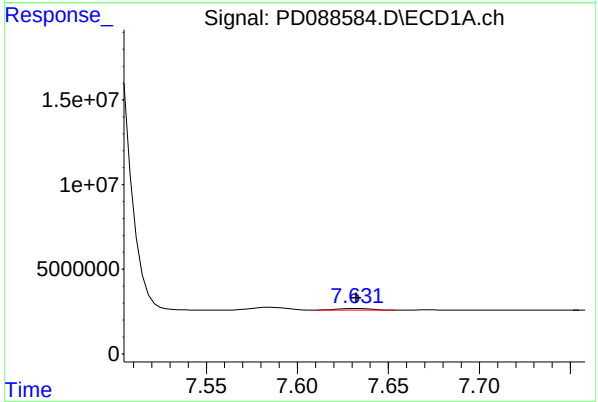


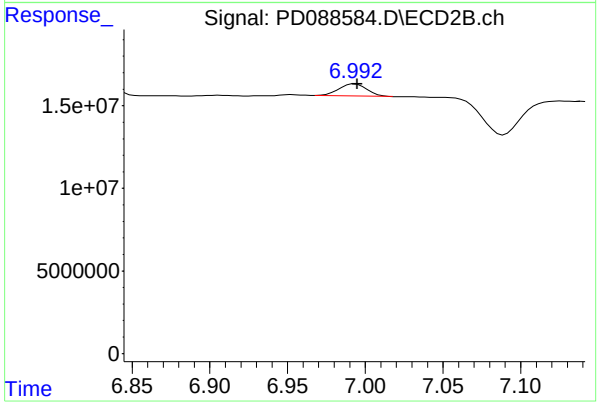
#20 Methoxychlor

R.T.: 6.757 min
Delta R.T.: -0.001 min
Response: 1873132344
Conc: 195.63 ng/ml



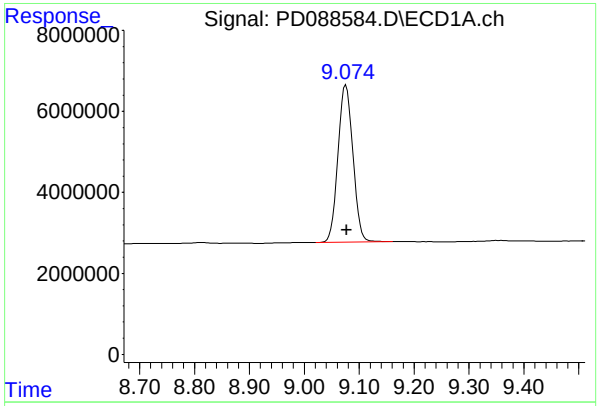
#21 Endrin ketone

R.T.: 7.631 min
Delta R.T.: -0.001 min
Response: 1317638
Conc: 0.38 ng/ml m



#21 Endrin ketone

R.T.: 6.992 min
Delta R.T.: -0.003 min
Response: 9059485
Conc: 0.47 ng/ml m



#28 Decachlorobiphenyl

R.T.: 9.076 min
Delta R.T.: -0.002 mi
Response: 73616024
Conc: 21.51 ng/m

Instrument :
ECD_D
ClientSampleId :
PEM

Manual Integrations
APPROVED

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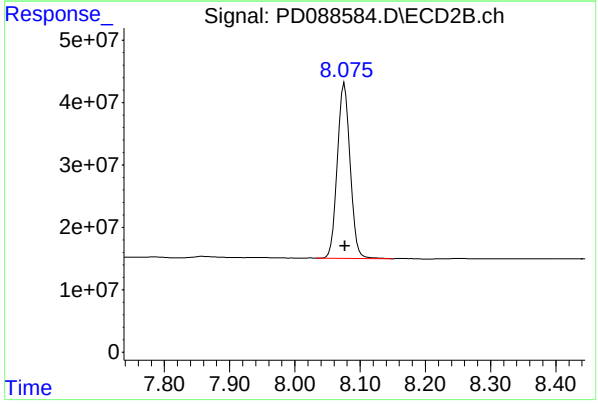
Supervised By :mohammad ahmed 05/21/2025



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 382665210
Conc: 20.96 ng/ml

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

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No. (PEM): PEM - PD088605.D **Date Analyzed:** 05/19/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 15:49

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.077	8.980	9.180	22.190	20.000	11.0
Tetrachloro-m-xylene	3.551	3.500	3.600	20.580	20.000	2.9
alpha-BHC	4.000	3.950	4.050	9.360	10.000	-6.4
beta-BHC	4.516	4.470	4.570	10.510	10.000	5.1
gamma-BHC (Lindane)	4.331	4.280	4.380	9.760	10.000	-2.4
Endrin	6.577	6.510	6.650	52.580	50.000	5.2
4,4'-DDT	7.024	6.950	7.090	104.120	100.000	4.1
Methoxychlor	7.497	7.430	7.570	239.500	250.000	-4.2

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/19/2025 05/19/2025

Client Sample No. (PEM): PEM - PD088605.D **Date Analyzed:** 05/19/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 15:49

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.076	7.980	8.180	22.350	20.000	11.8
Tetrachloro-m-xylene	2.882	2.830	2.930	21.360	20.000	6.8
alpha-BHC	3.394	3.340	3.440	11.120	10.000	11.2
beta-BHC	4.027	3.980	4.080	11.510	10.000	15.1
gamma-BHC (Lindane)	3.731	3.680	3.780	11.190	10.000	11.9
Endrin	5.792	5.720	5.860	51.270	50.000	2.5
4,4'-DDT	6.186	6.120	6.260	99.720	100.000	-0.3
Methoxychlor	6.757	6.690	6.830	205.690	250.000	-17.7

PEM

Data File: PD088605.D **Date Acquired** 5/19/2025 15:49

Operator: AR\AJ

ENDRIN BREAK DOWN

Column #1

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down Down
Endrin	6.58	179557630.1	181819910.5	2262280.36	**1.24**
Endrin aldehyde	6.92	683872.854			
Endrin ketone	7.63	1578407.509			

Column #2

Name	RT	Response	Response [E+EA+EK]	Response [EA+EK]	% Break Down
Endrin #2	5.79	988716238.6	1009185478	20469239.6	**2.03**
Endrin aldehyde #2	6.26	9163216.857			
Endrin ketone #2	6.99	11306022.79			

DDT BREAK DOWN

Column #1

Name	RT	Response	Response [DDT+DDE+DDD	Response [DDE+DDD]	% Break Down
4,4'-DDT	7.02	325080411.3	325705707.4	625296.175	**0.19**
4,4'-DDE	0.00	0			
4,4'-DDD	6.70	625296.175			

Column #2

Name	RT	Response	Response [DDT+DDE+DDD	Response [DDE+DDD]	% Break Down
4,4'-DDT #2	6.19	1808639095	1814683557	6044461.72	**0.33**
4,4'-DDE #2	0.00	0			
4,4'-DDD #2	5.93	6044461.719			

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088605.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 15:49
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PEM

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:39:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.551	2.882	44529897	323.1E6	20.580	21.359
28)	SA Decachlor...	9.077	8.076	75939709	407.9E6	22.189	22.346
	Target Compounds						
2)	A alpha-BHC	4.000	3.394	44714607	265.9E6	9.361	11.124
3)	MA gamma-BHC...	4.331	3.731	44937590	248.0E6	9.763	11.191
6)	B beta-BHC	4.516	4.027	18943064	112.1E6	10.506	11.507
14)	MA Endrin	6.577	5.792	179.6E6	988.7E6	52.576	51.271
16)	A 4,4'-DDD	6.704	5.934	625296	6044462	0.225m	0.348m#
17)	MA 4,4'-DDT	7.024	6.186	325.1E6	1808.6E6	104.124	99.719
18)	B Endrin al...	6.922	6.258	683873	9163217	0.266	0.658m#
20)	A Methoxychlor	7.497	6.757	400.1E6	1969.4E6	239.500	205.688
21)	B Endrin ke...	7.632	6.992	1578408	11306023	0.461m	0.584m#

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

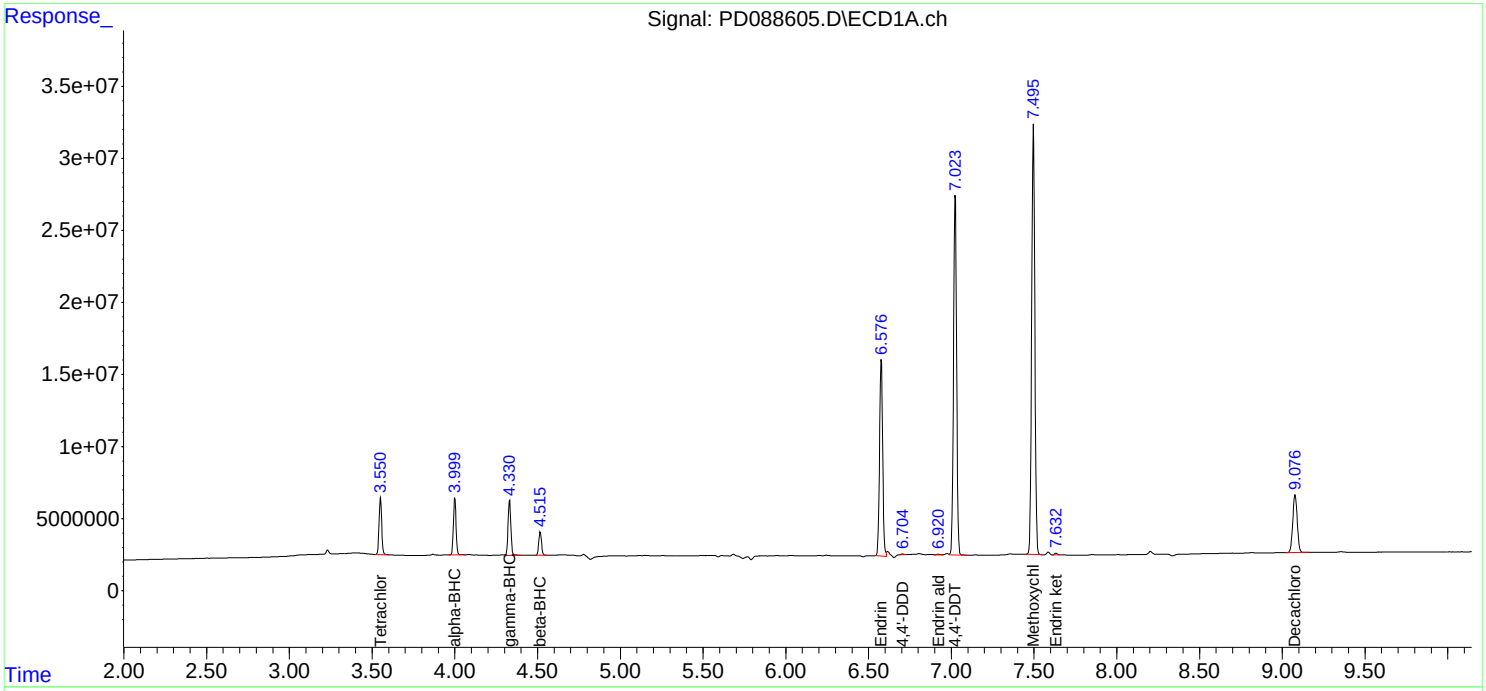
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088605.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 15:49
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

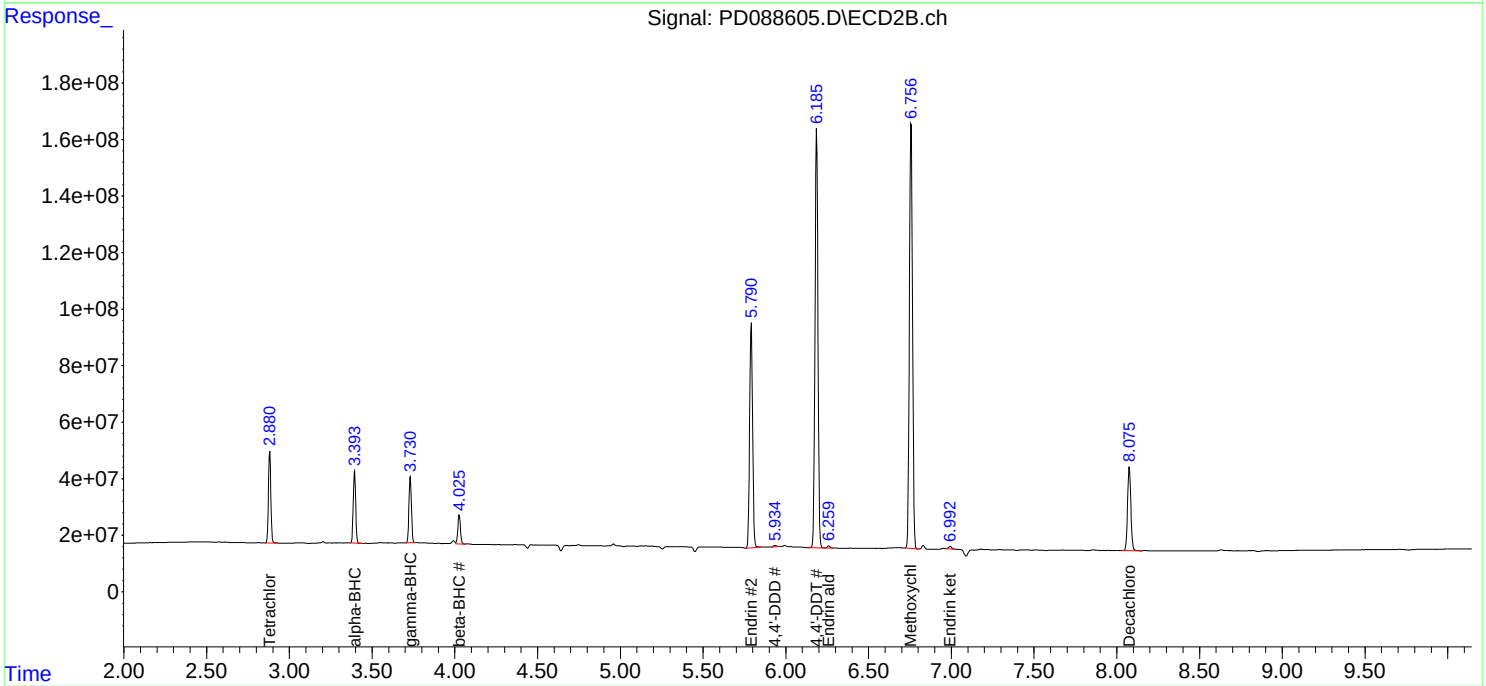
Instrument :
ECD_D
ClientSampleId :
PEM

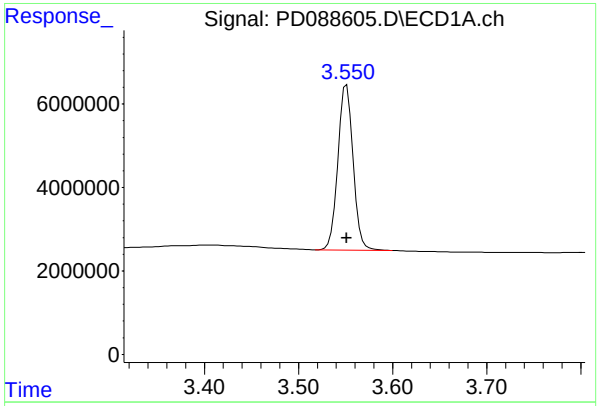
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:39:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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







#1 Tetrachloro-m-xylene

R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 44529897
Conc: 20.58 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM

Manual Integrations
APPROVED

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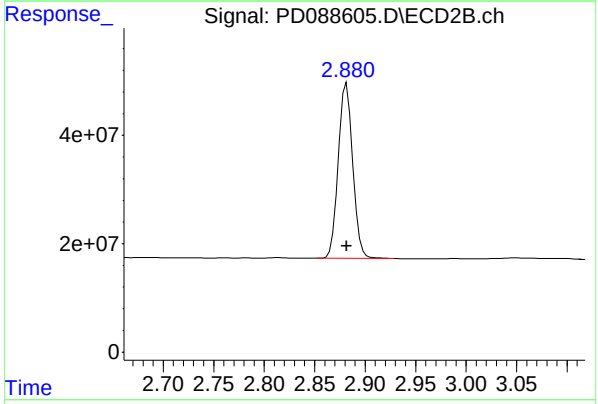
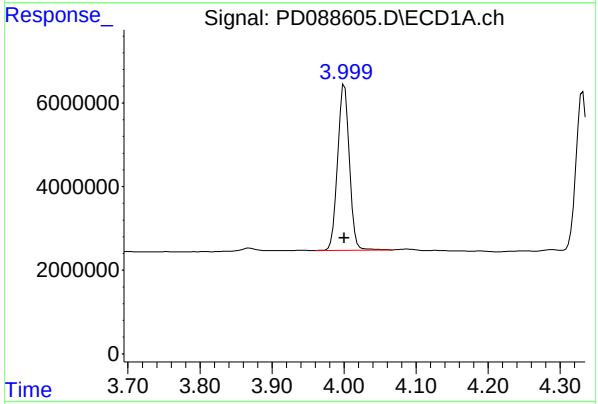


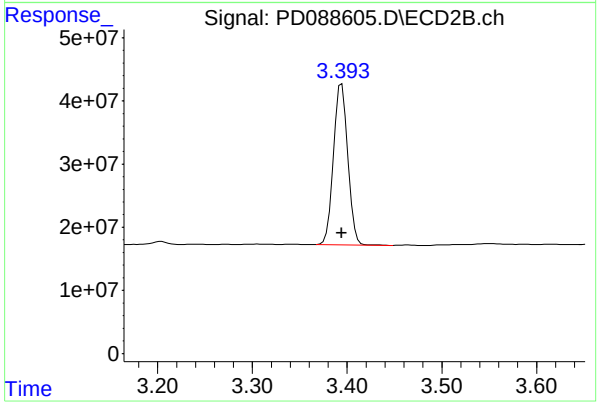
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 323089514
Conc: 21.36 ng/ml



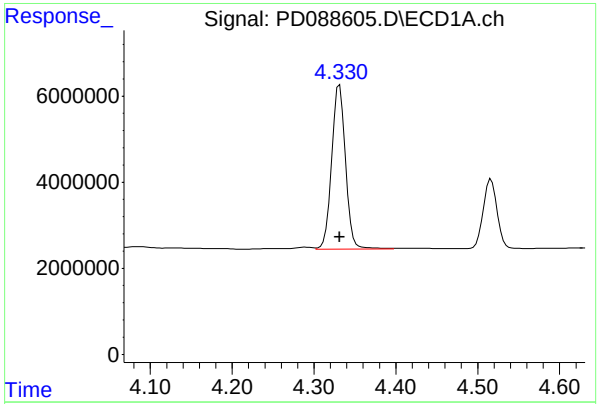
#2 alpha-BHC

R.T.: 4.000 min
Delta R.T.: 0.000 min
Response: 44714607
Conc: 9.36 ng/ml



#2 alpha-BHC

R.T.: 3.394 min
Delta R.T.: 0.000 min
Response: 265895140
Conc: 11.12 ng/ml



#3 gamma-BHC (Lindane)

R.T.: 4.331 min
Delta R.T.: 0.000 min
Response: 44937590
Conc: 9.76 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM

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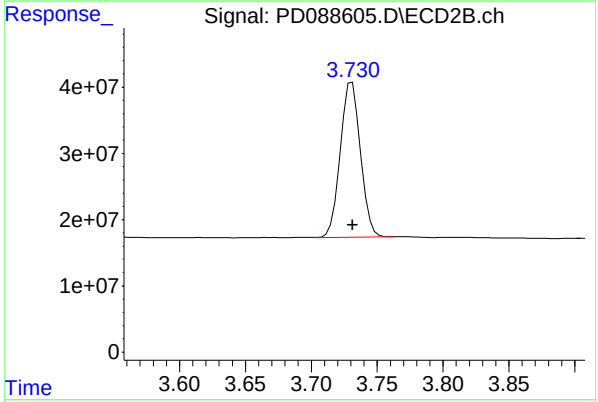
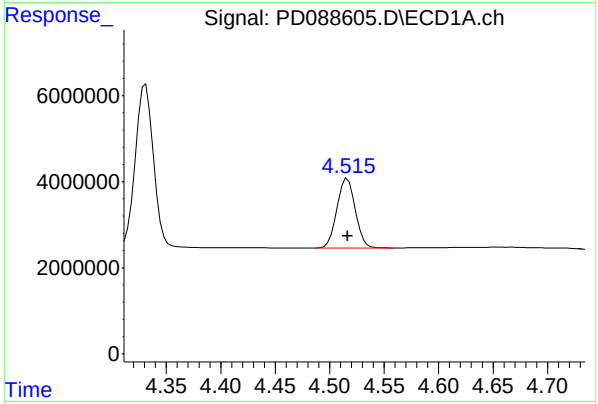


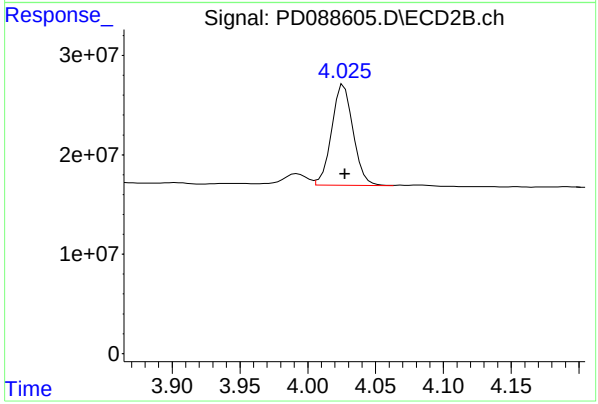
#3 gamma-BHC (Lindane)

R.T.: 3.731 min
Delta R.T.: 0.000 min
Response: 248045836
Conc: 11.19 ng/ml



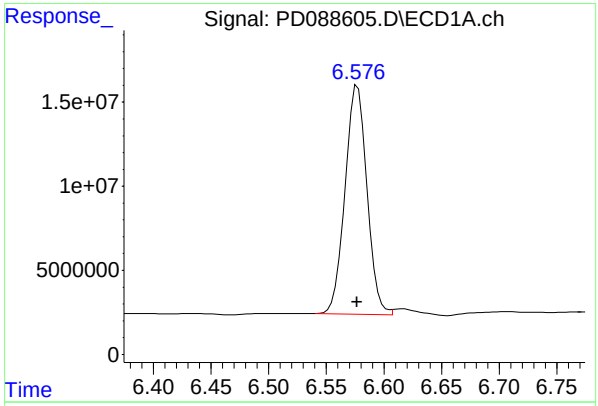
#6 beta-BHC

R.T.: 4.516 min
Delta R.T.: 0.000 min
Response: 18943064
Conc: 10.51 ng/ml



#6 beta-BHC

R.T.: 4.027 min
Delta R.T.: 0.000 min
Response: 112099985
Conc: 11.51 ng/ml



#14 Endrin

R.T.: 6.577 min
Delta R.T.: 0.000 mi
Response: 179557630
Conc: 52.58 ng/m

Instrument :
ECD_D
ClientSampleId :
PEM

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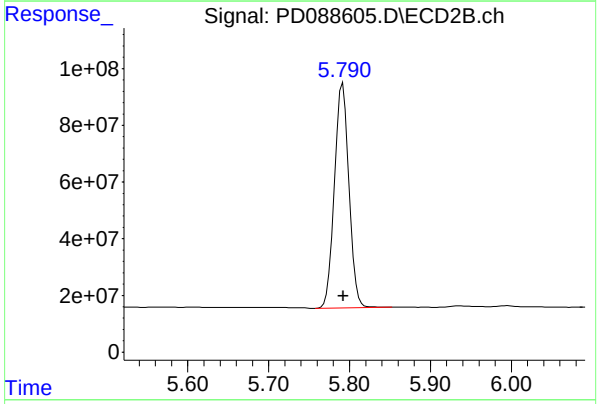
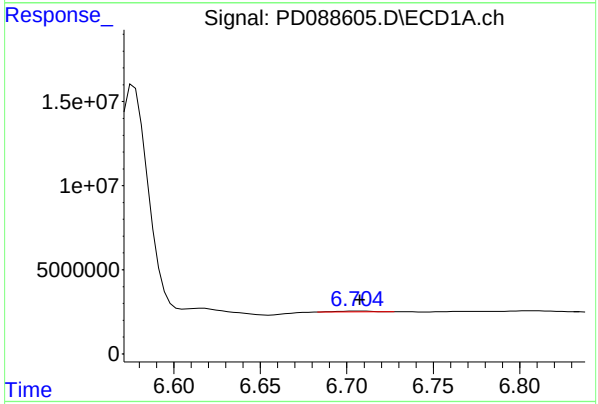


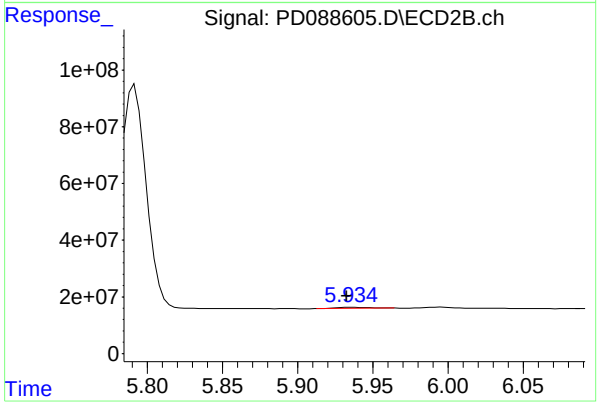
#14 Endrin

R.T.: 5.792 min
Delta R.T.: 0.000 min
Response: 988716239
Conc: 51.27 ng/ml



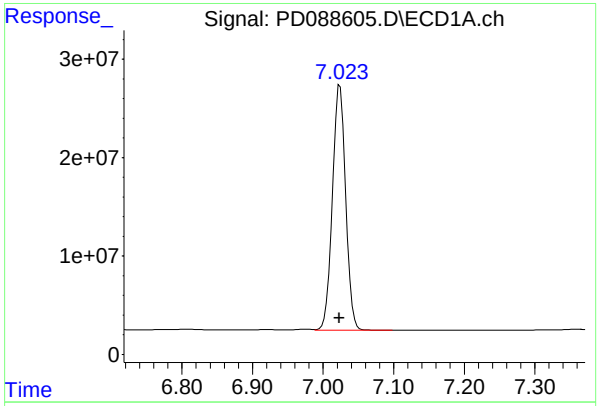
#16 4,4'-DDD

R.T.: 6.704 min
Delta R.T.: -0.003 min
Response: 625296
Conc: 0.22 ng/ml m



#16 4,4'-DDD

R.T.: 5.934 min
Delta R.T.: 0.000 min
Response: 6044462
Conc: 0.35 ng/ml m



#17 4,4'-DDT

R.T.: 7.024 min
Delta R.T.: 0.000 min
Response: 325080411
Conc: 104.12 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM

Manual Integrations
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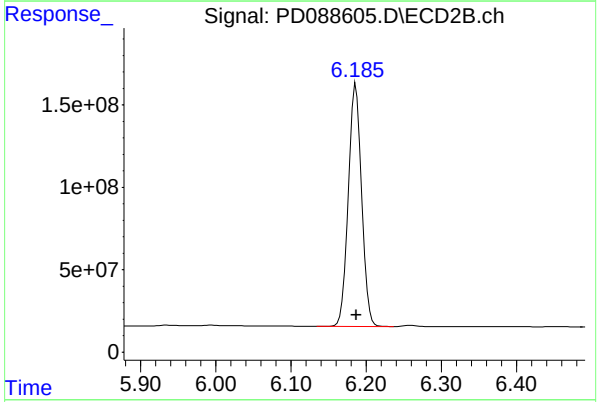
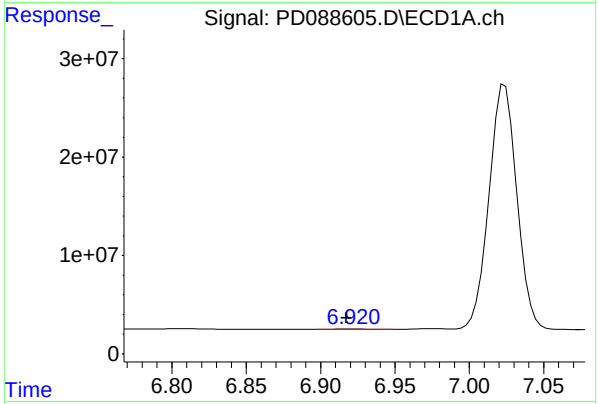


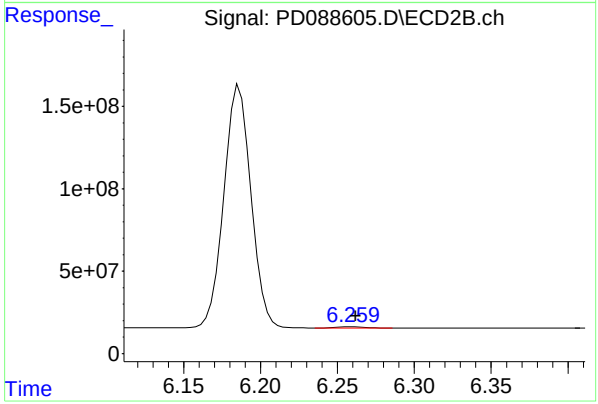
#17 4,4'-DDT

R.T.: 6.186 min
Delta R.T.: 0.000 min
Response: 1808639095
Conc: 99.72 ng/ml



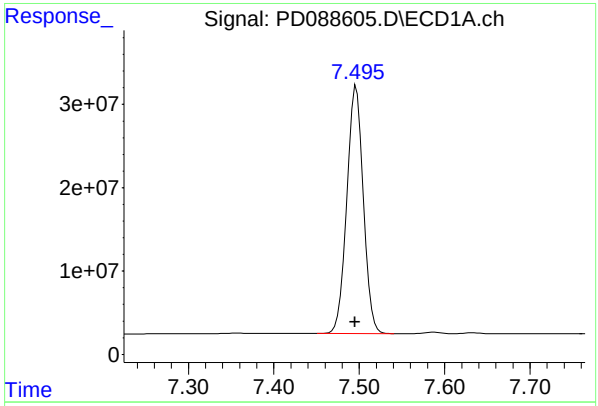
#18 Endrin aldehyde

R.T.: 6.922 min
Delta R.T.: 0.004 min
Response: 683873
Conc: 0.27 ng/ml



#18 Endrin aldehyde

R.T.: 6.258 min
Delta R.T.: -0.004 min
Response: 9163217
Conc: 0.66 ng/ml m



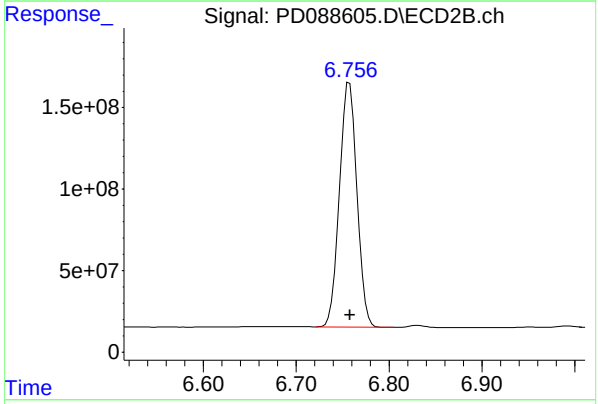
#20 Methoxychlor

R.T.: 7.497 min
Delta R.T.: 0.001 mi
Response: 400097256
Conc: 239.50 ng/m

Instrument :
ECD_D
ClientSampleId :
PEM

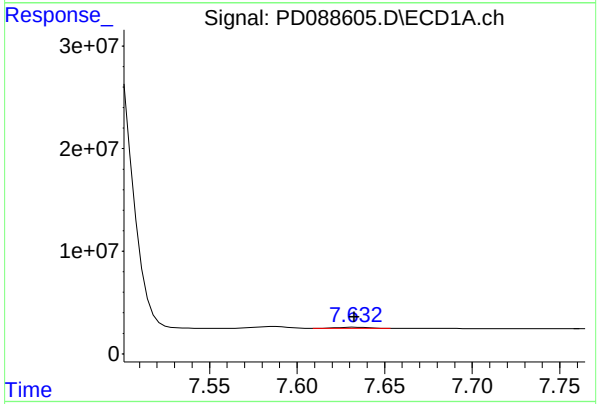
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



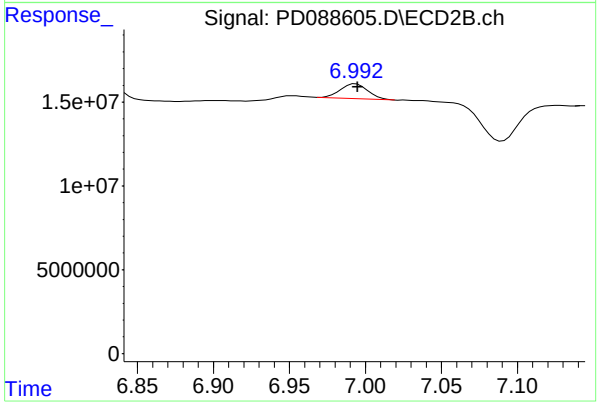
#20 Methoxychlor

R.T.: 6.757 min
Delta R.T.: 0.000 min
Response: 1969418433
Conc: 205.69 ng/ml



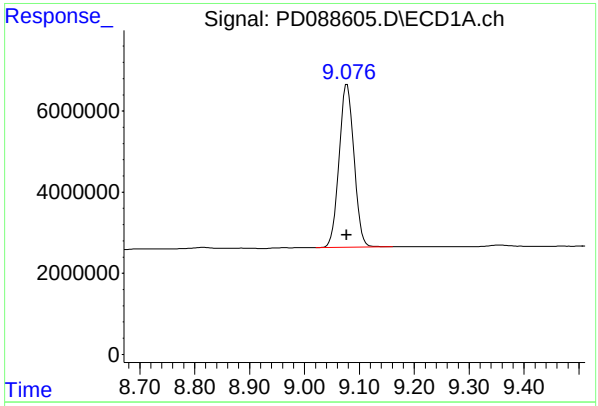
#21 Endrin ketone

R.T.: 7.632 min
Delta R.T.: 0.000 min
Response: 1578408
Conc: 0.46 ng/ml m



#21 Endrin ketone

R.T.: 6.992 min
Delta R.T.: -0.003 min
Response: 11306023
Conc: 0.58 ng/ml m



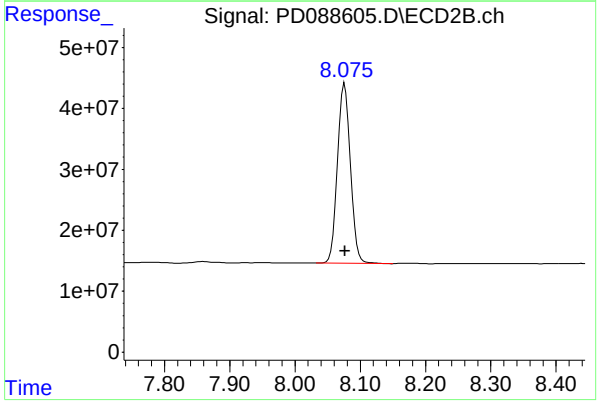
#28 Decachlorobiphenyl

R.T.: 9.077 min
Delta R.T.: 0.000 min
Response: 75939709
Conc: 22.19 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 407949741
Conc: 22.35 ng/ml

Chromatographic Resolution Report

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088123.D
Acq On : 18 Apr 2025 13:43
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_D\Method\PD041825.M
Title : GC Extractables
Last Update : Sat Apr 19 06:32:27 2025
Integrator: ChemStation

RT#1	RT#2	Resolution
3.552	5.948	100.00%
5.948	6.077	100.00%
6.077	6.198	100.00%
6.198	6.349	100.00%
6.349	7.151	100.00%
7.151	7.495	100.00%
7.495	7.631	100.00%
7.631	9.075	100.00%

Signal #2

2.883	5.130	100.00%
5.130	5.251	100.00%
5.251	5.379	100.00%
5.379	5.517	100.00%
5.517	6.486	100.00%
6.486	6.759	100.00%
6.759	6.995	100.00%
6.995	8.076	100.00%

PD041825.M Mon Apr 21 06:14:03 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088123.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 13:43
Operator : AR\AJ
Sample : RESCHK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
RESCHK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 21 06:03:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.552	2.883	37870717	290.8E6	18.960	19.885
28)	SA Decachlor...	9.075	8.076	66771462	372.0E6	20.184	20.130
	Target Compounds						
9)	A Endosulfan I	6.077	5.251	29410187	177.2E6	8.709	9.836
10)	B gamma-Chl...	5.948	5.130	32853106	209.1E6	9.070	10.304
12)	B 4,4'-DDE	6.198	5.379	60393989	395.9E6	18.311	20.100
13)	MA Dieldrin	6.349	5.517	64800077	392.3E6	18.159	19.682
19)	B Endosulfa...	7.151	6.486	54061534	339.7E6	18.799	19.830
20)	A Methoxychlor	7.495	6.758	137.4E6	780.0E6	91.608	85.519
21)	B Endrin ke...	7.631	6.995	57978754	371.5E6	18.784	19.864

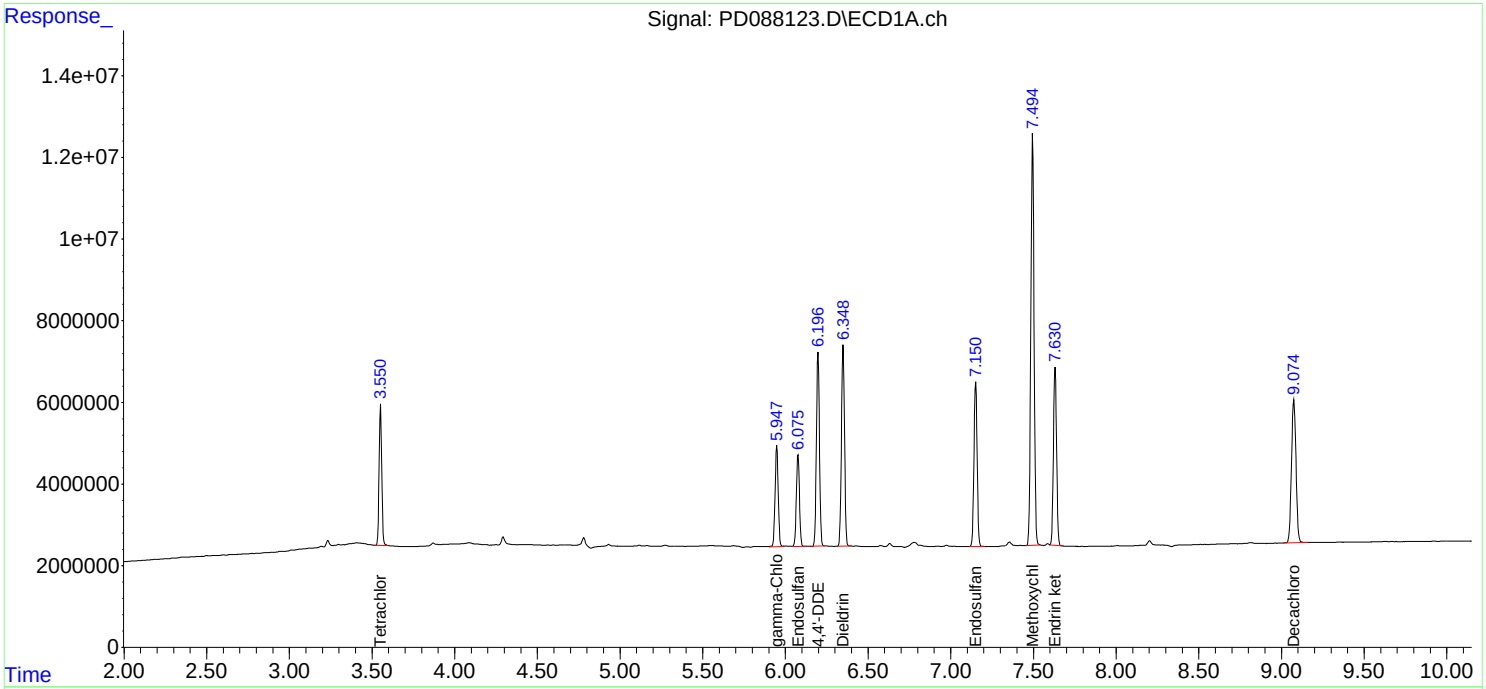
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

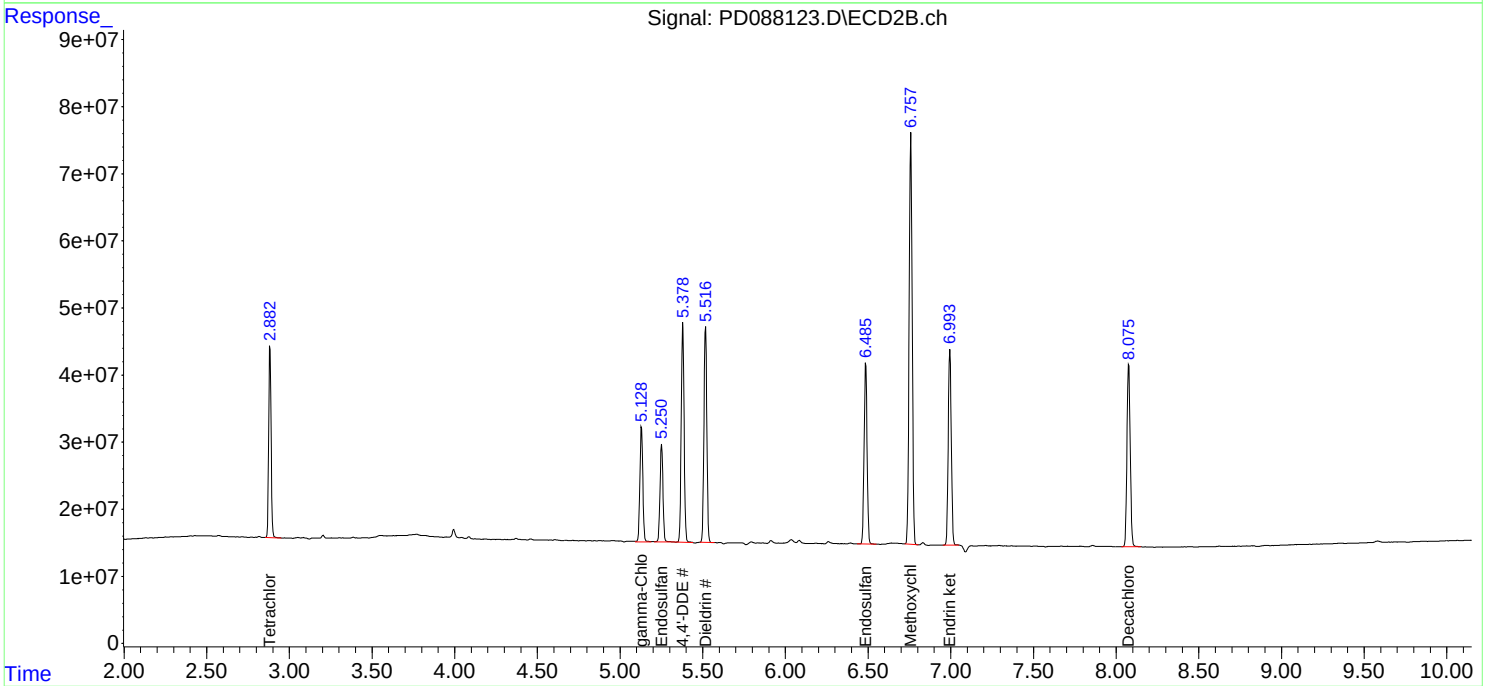
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088123.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 13:43
Operator : AR\AJ
Sample : RESCHK
Misc :
ALS Vial : 4 Sample Multiplier: 1

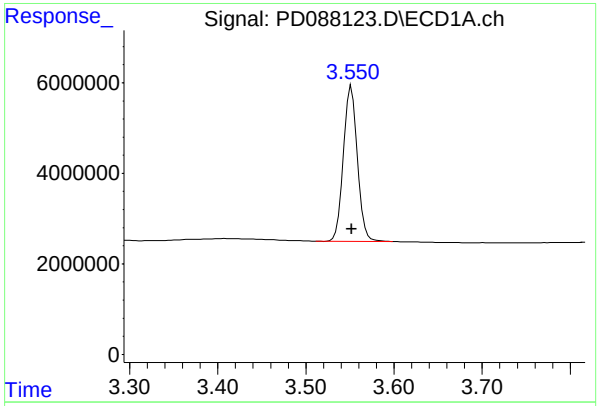
Instrument :
ECD_D
ClientSampleId :
RESCHK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 21 06:03:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



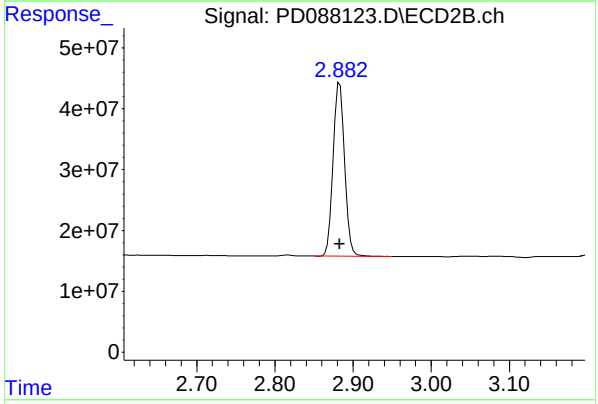




#1 Tetrachloro-m-xylene

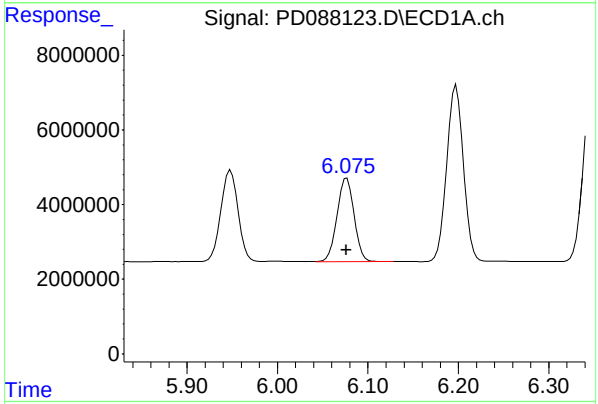
R.T.: 3.552 min
Delta R.T.: 0.000 min
Response: 37870717
Conc: 18.96 ng/ml

Instrument :
ECD_D
ClientSampleId :
RESCHK



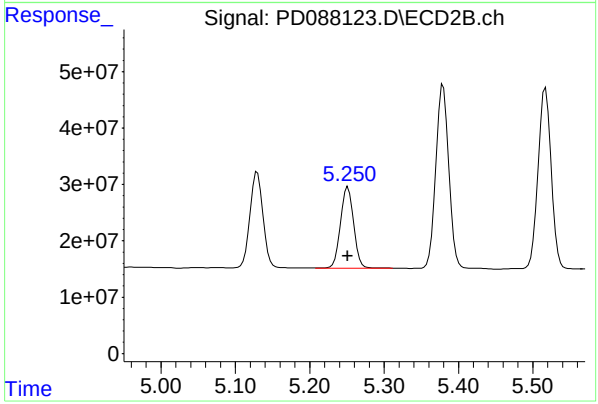
#1 Tetrachloro-m-xylene

R.T.: 2.883 min
Delta R.T.: 0.000 min
Response: 290753510
Conc: 19.89 ng/ml



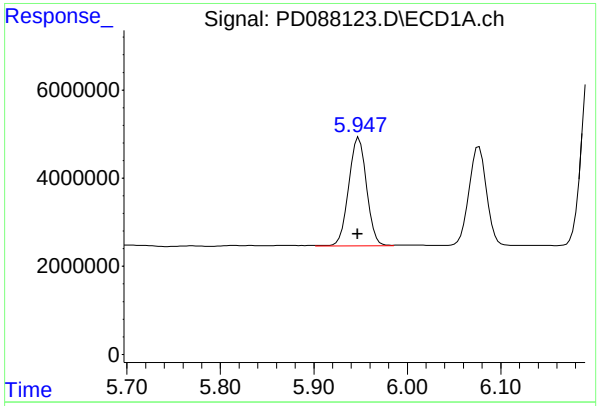
#9 Endosulfan I

R.T.: 6.077 min
Delta R.T.: 0.000 min
Response: 29410187
Conc: 8.71 ng/ml



#9 Endosulfan I

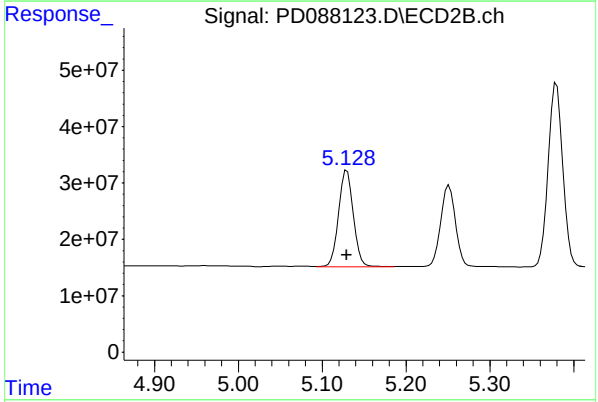
R.T.: 5.251 min
Delta R.T.: 0.000 min
Response: 177177453
Conc: 9.84 ng/ml



#10 gamma-Chlordane

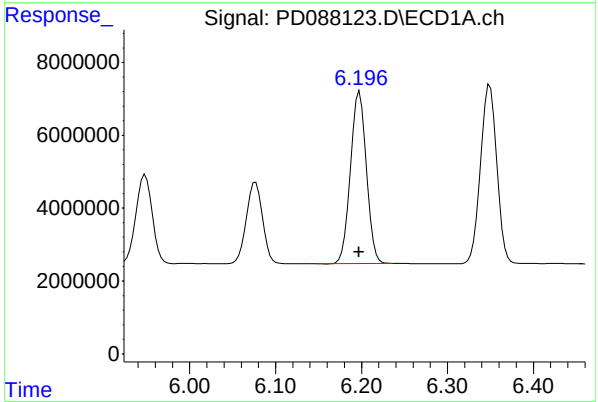
R.T.: 5.948 min
Delta R.T.: 0.001 min
Response: 32853106
Conc: 9.07 ng/ml

Instrument :
ECD_D
ClientSampleId :
RESCHK



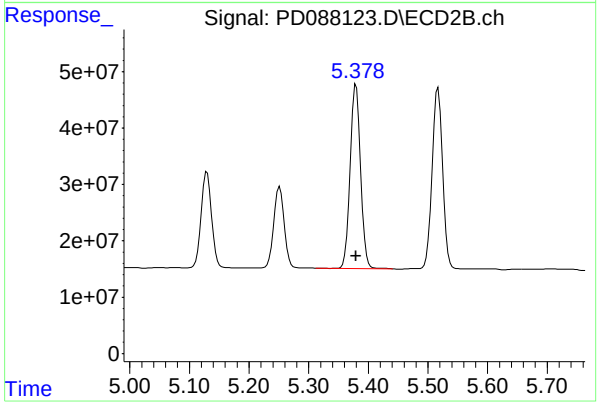
#10 gamma-Chlordane

R.T.: 5.130 min
Delta R.T.: 0.000 min
Response: 209139105
Conc: 10.30 ng/ml



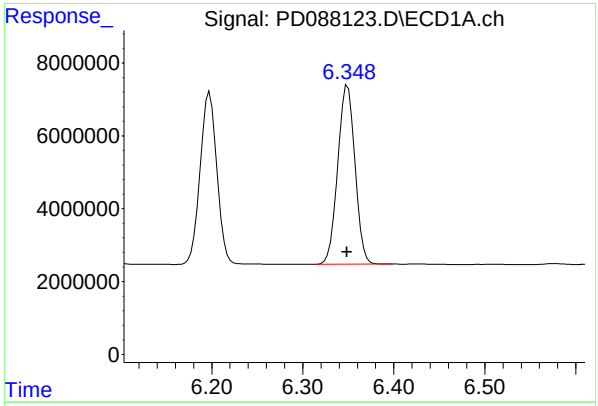
#12 4,4'-DDE

R.T.: 6.198 min
Delta R.T.: 0.000 min
Response: 60393989
Conc: 18.31 ng/ml



#12 4,4'-DDE

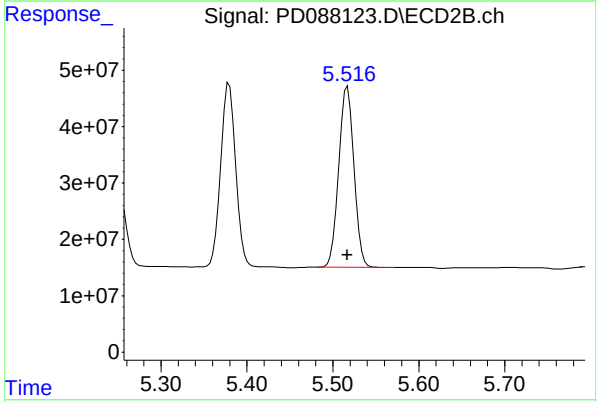
R.T.: 5.379 min
Delta R.T.: 0.000 min
Response: 395851321
Conc: 20.10 ng/ml



#13 Dieldrin

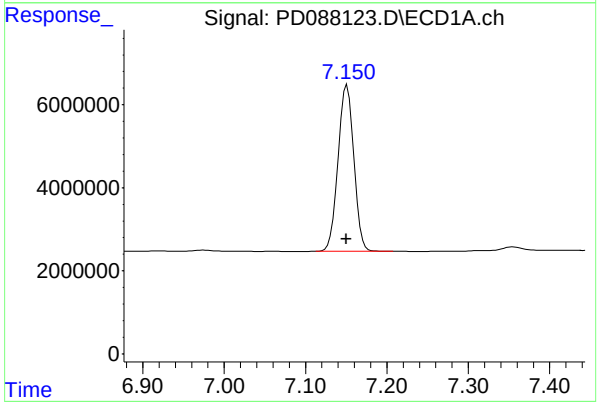
R.T.: 6.349 min
Delta R.T.: 0.000 min
Response: 64800077
Conc: 18.16 ng/ml

Instrument :
ECD_D
ClientSampleId :
RESCHK



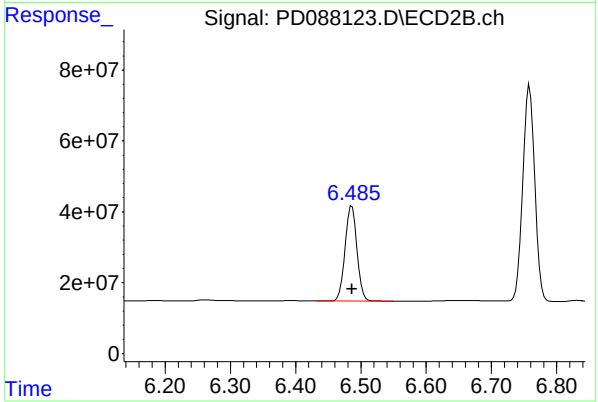
#13 Dieldrin

R.T.: 5.517 min
Delta R.T.: 0.000 min
Response: 392323553
Conc: 19.68 ng/ml



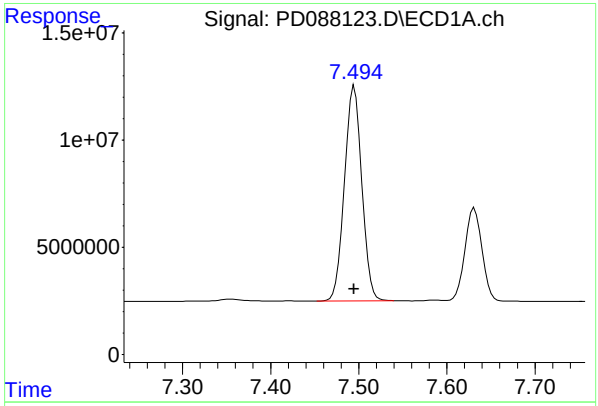
#19 Endosulfan Sulfate

R.T.: 7.151 min
Delta R.T.: 0.000 min
Response: 54061534
Conc: 18.80 ng/ml



#19 Endosulfan Sulfate

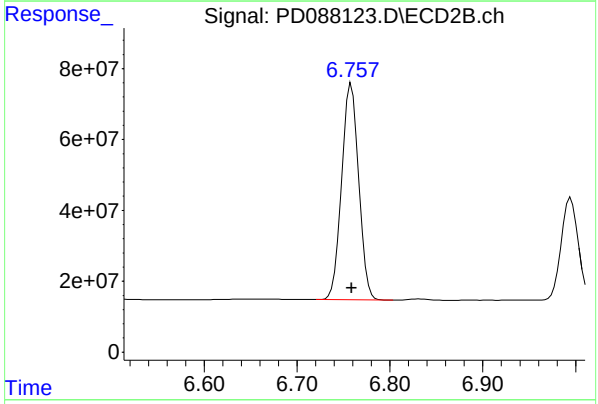
R.T.: 6.486 min
Delta R.T.: 0.000 min
Response: 339744835
Conc: 19.83 ng/ml



#20 Methoxychlor

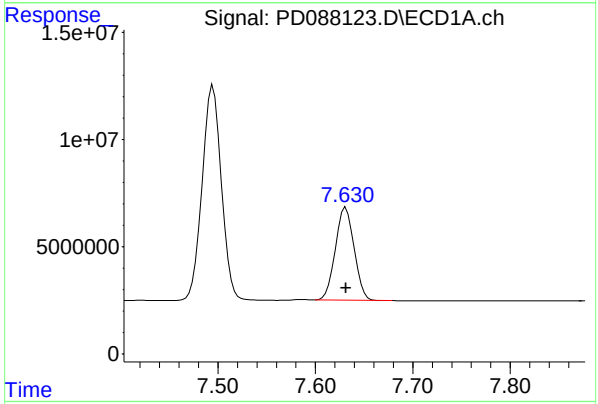
R.T.: 7.495 min
Delta R.T.: 0.000 min
Response: 137370950
Conc: 91.61 ng/ml

Instrument :
ECD_D
ClientSampleId :
RESCHK



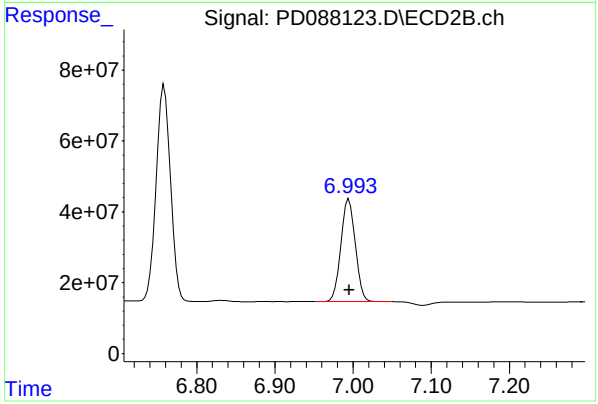
#20 Methoxychlor

R.T.: 6.758 min
Delta R.T.: 0.000 min
Response: 780024876
Conc: 85.52 ng/ml



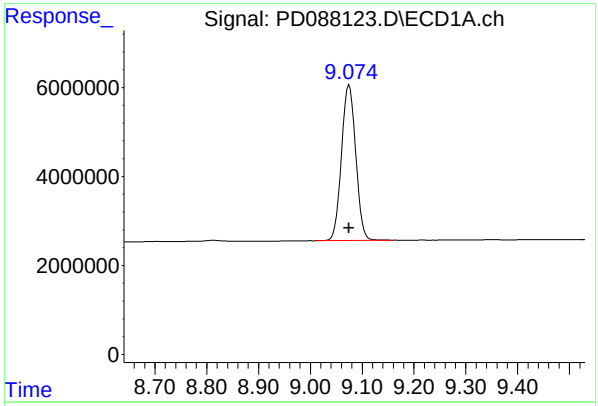
#21 Endrin ketone

R.T.: 7.631 min
Delta R.T.: 0.000 min
Response: 57978754
Conc: 18.78 ng/ml



#21 Endrin ketone

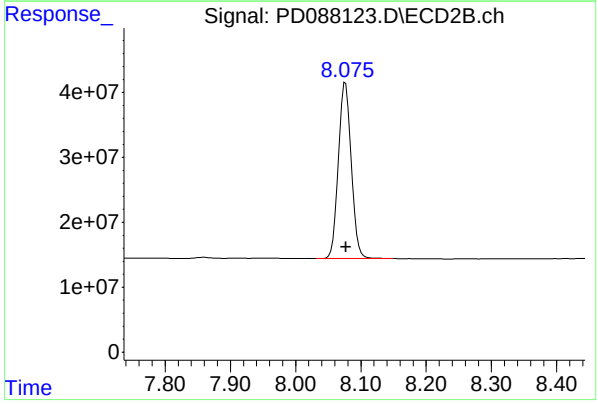
R.T.: 6.995 min
Delta R.T.: 0.000 min
Response: 371541118
Conc: 19.86 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.075 min
Delta R.T.: 0.000 min
Response: 66771462
Conc: 20.18 ng/ml

Instrument :
ECD_D
ClientSampleId :
RESCHK



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 371985891
Conc: 20.13 ng/ml

Chromatographic Resolution Report

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088585.D
Acq On : 19 May 2025 11:17
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_D\Method\PD051925.M
Title : GC Extractables
Last Update : Mon May 19 13:57:43 2025
Integrator: ChemStation

RT#1	RT#2	Resolution
3.550	5.948	100.00%
5.948	6.076	100.00%
6.076	6.198	100.00%
6.198	6.350	100.00%
6.350	7.152	100.00%
7.152	7.495	100.00%
7.495	7.633	100.00%
7.633	9.077	100.00%

Signal #2

2.881	5.128	100.00%
5.128	5.249	100.00%
5.249	5.377	100.00%
5.377	5.515	100.00%
5.515	6.485	100.00%
6.485	6.757	100.00%
6.757	6.994	100.00%
6.994	8.075	100.00%

PD051925.M Mon May 19 14:07:57 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088585.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 11:17
Operator : AR\AJ
Sample : RESCHK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
RESCHK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 14:00:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 13:57:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1) SA	Tetrachlo...	3.550	2.881	41487143	300.1E6	19.174	19.836
28) SA	Decachlor...	9.077	8.075	69355454	365.4E6	20.266	20.017
	Target Compounds						
9) A	Endosulfan I	6.076	5.249	33273453	185.2E6	8.842	9.760
10) B	gamma-Chl...	5.948	5.128	36597267	220.9E6	9.175	10.355
12) B	4,4'-DDE	6.198	5.377	66676699	417.9E6	18.576	19.993
13) MA	Dieldrin	6.350	5.515	73699578	411.2E6	18.371	19.539
19) B	Endosulfa...	7.152	6.485	60919862	351.5E6	19.019	19.795
20) A	Methoxychlor	7.495	6.757	152.5E6	804.8E6	91.284	84.053
21) B	Endrin ke...	7.633	6.994	64436060	381.7E6	18.824	19.728

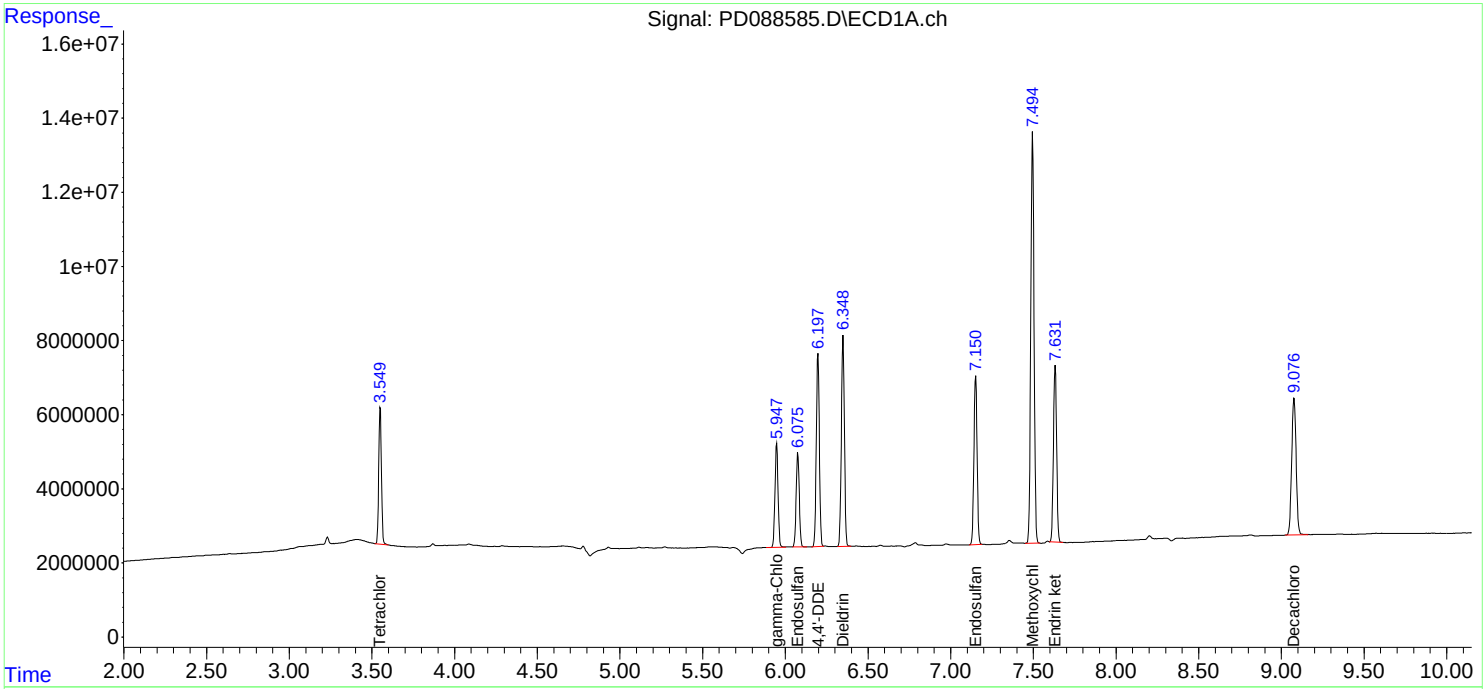
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

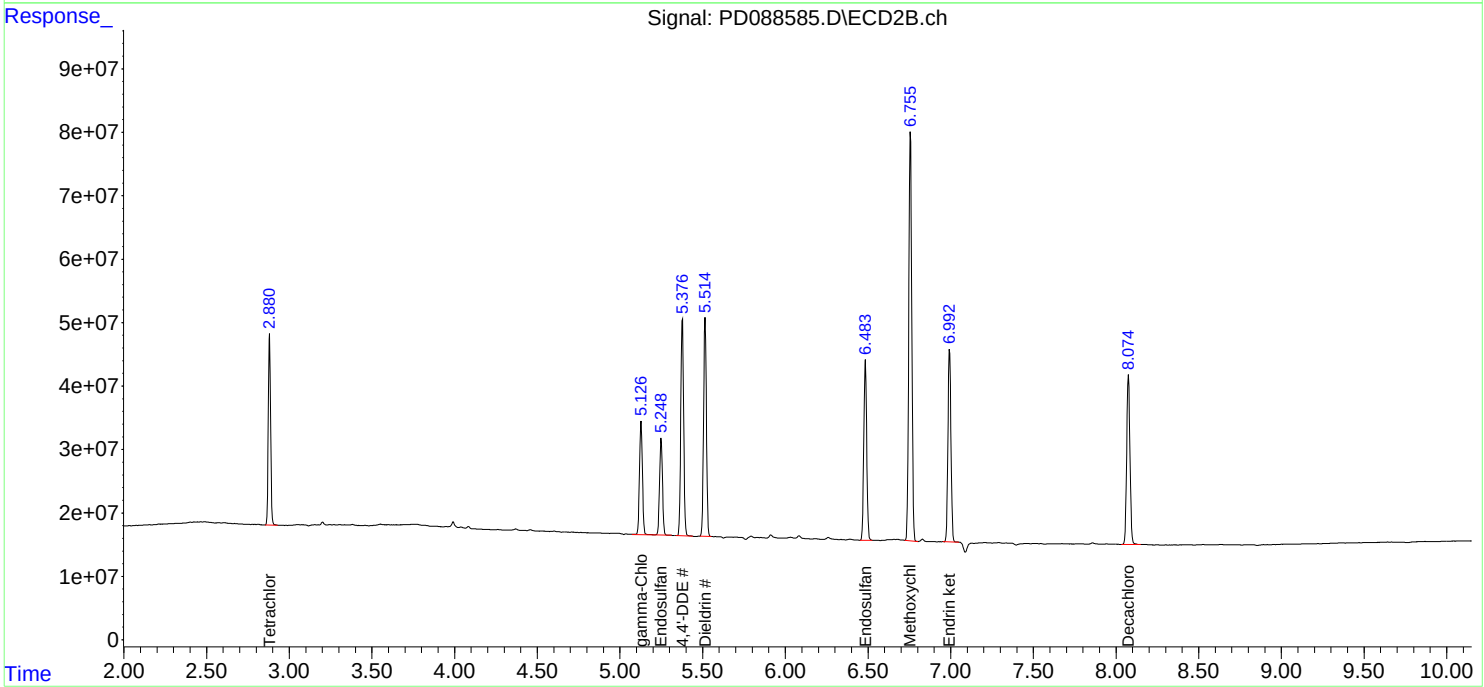
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088585.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 11:17
Operator : AR\AJ
Sample : RESCHK
Misc :
ALS Vial : 4 Sample Multiplier: 1

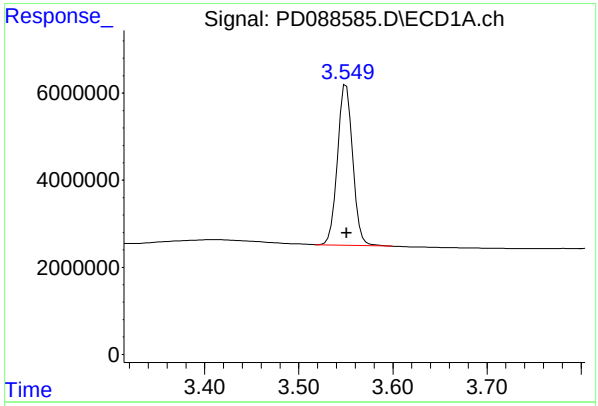
Instrument :
ECD_D
ClientSampleId :
RESCHK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 14:00:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 13:57:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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



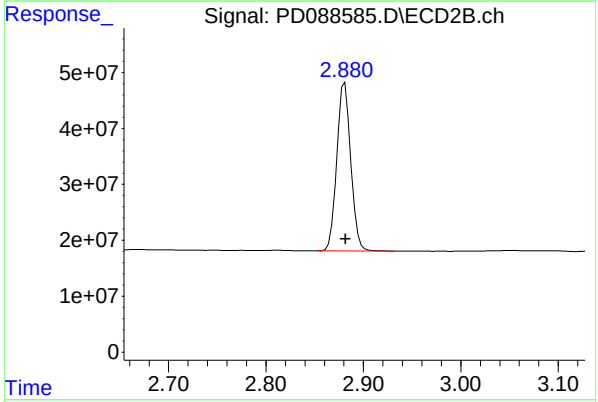




#1 Tetrachloro-m-xylene

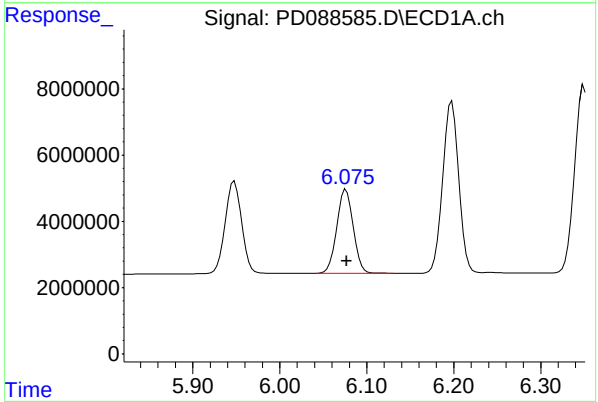
R.T.: 3.550 min
Delta R.T.: 0.000 min
Response: 41487143
Conc: 19.17 ng/ml

Instrument :
ECD_D
ClientSampleId :
RESCHK



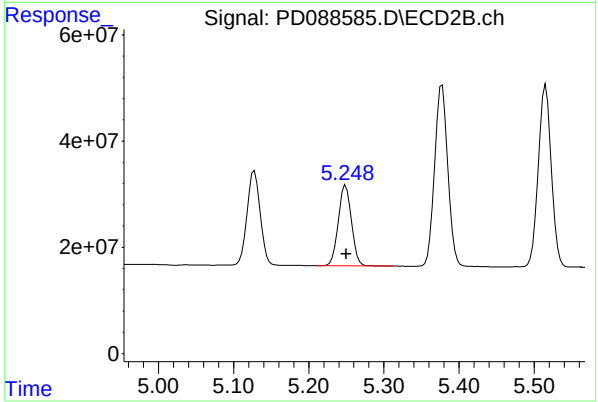
#1 Tetrachloro-m-xylene

R.T.: 2.881 min
Delta R.T.: 0.000 min
Response: 300055852
Conc: 19.84 ng/ml



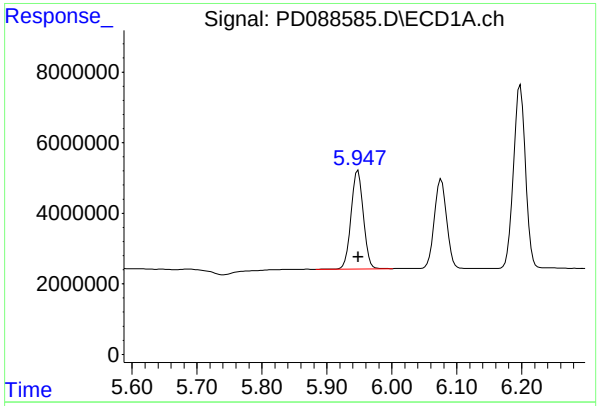
#9 Endosulfan I

R.T.: 6.076 min
Delta R.T.: -0.001 min
Response: 33273453
Conc: 8.84 ng/ml



#9 Endosulfan I

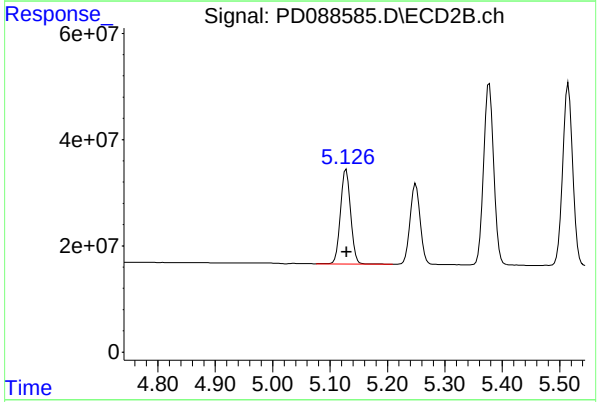
R.T.: 5.249 min
Delta R.T.: 0.000 min
Response: 185230529
Conc: 9.76 ng/ml



#10 gamma-Chlordane

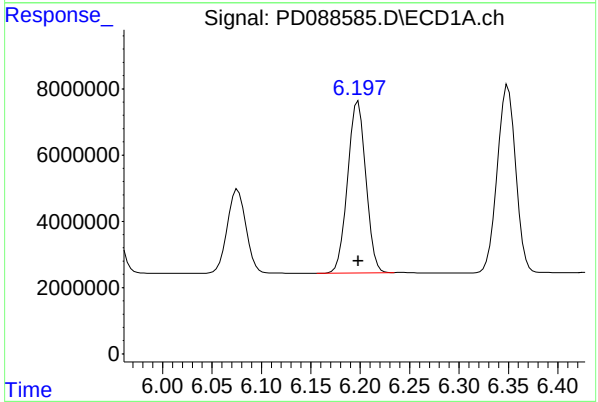
R.T.: 5.948 min
Delta R.T.: 0.000 min
Response: 36597267
Conc: 9.17 ng/ml

Instrument :
ECD_D
ClientSampleId :
RESCHK



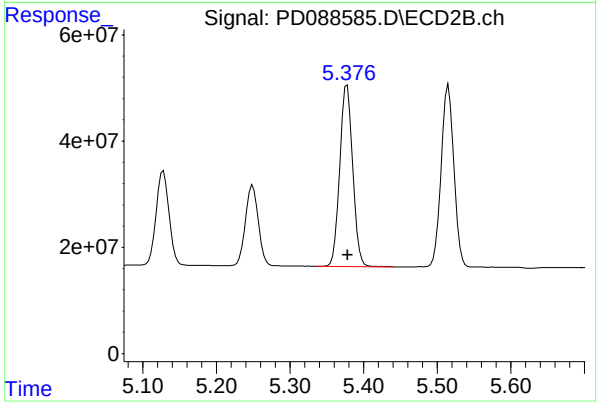
#10 gamma-Chlordane

R.T.: 5.128 min
Delta R.T.: 0.000 min
Response: 220885783
Conc: 10.35 ng/ml



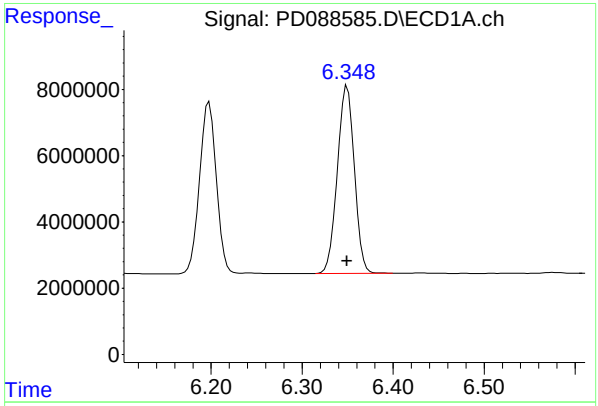
#12 4,4'-DDE

R.T.: 6.198 min
Delta R.T.: 0.000 min
Response: 66676699
Conc: 18.58 ng/ml



#12 4,4'-DDE

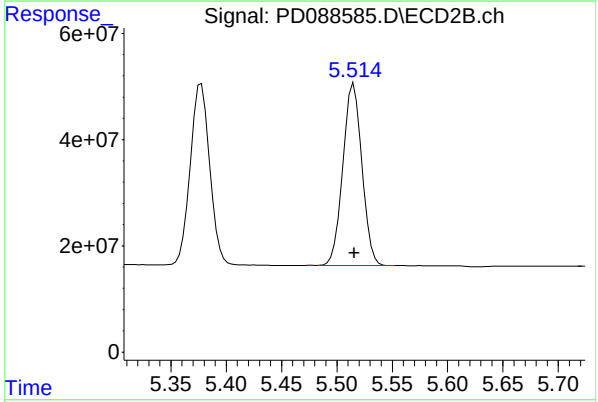
R.T.: 5.377 min
Delta R.T.: 0.000 min
Response: 417897527
Conc: 19.99 ng/ml



#13 Dieldrin

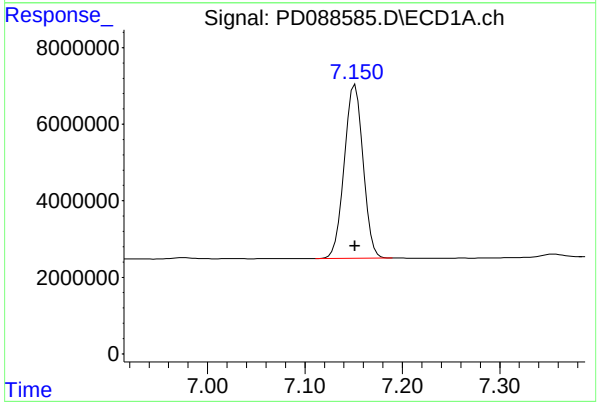
R.T.: 6.350 min
Delta R.T.: 0.000 min
Response: 73699578
Conc: 18.37 ng/ml

Instrument :
ECD_D
ClientSampleId :
RESCHK



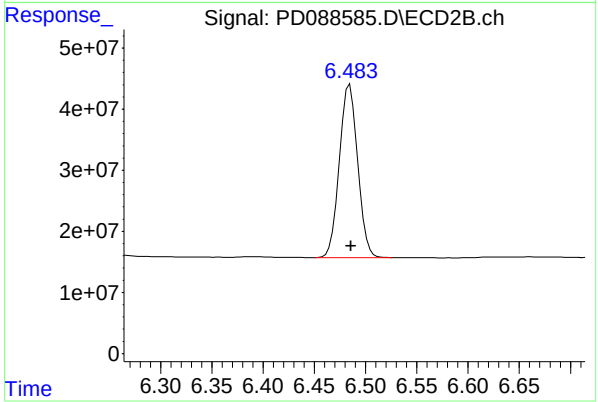
#13 Dieldrin

R.T.: 5.515 min
Delta R.T.: 0.000 min
Response: 411171083
Conc: 19.54 ng/ml



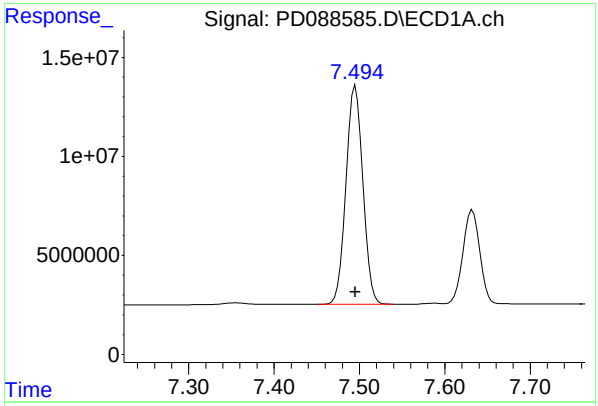
#19 Endosulfan Sulfate

R.T.: 7.152 min
Delta R.T.: 0.000 min
Response: 60919862
Conc: 19.02 ng/ml



#19 Endosulfan Sulfate

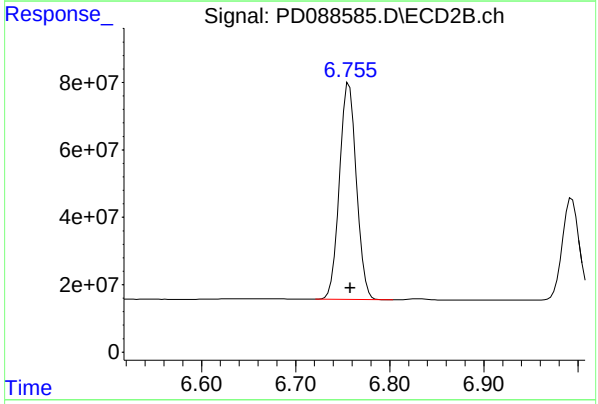
R.T.: 6.485 min
Delta R.T.: -0.001 min
Response: 351483349
Conc: 19.80 ng/ml



#20 Methoxychlor

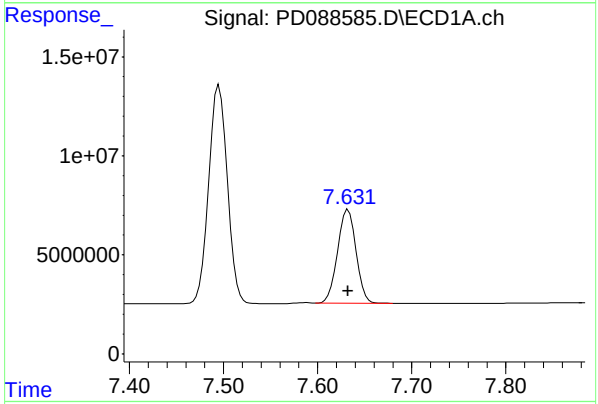
R.T.: 7.495 min
Delta R.T.: 0.000 min
Response: 152495142
Conc: 91.28 ng/ml

Instrument :
ECD_D
ClientSampleId :
RESCHK



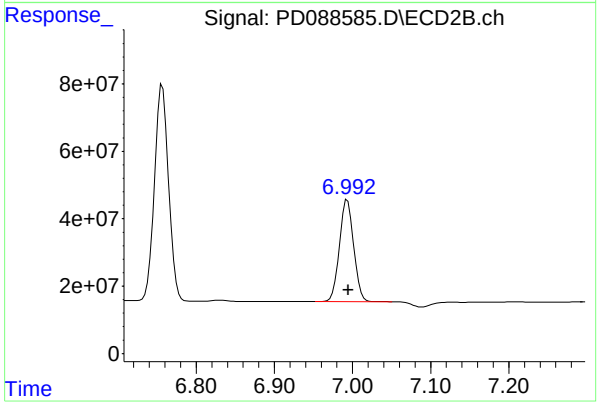
#20 Methoxychlor

R.T.: 6.757 min
Delta R.T.: -0.001 min
Response: 804794407
Conc: 84.05 ng/ml



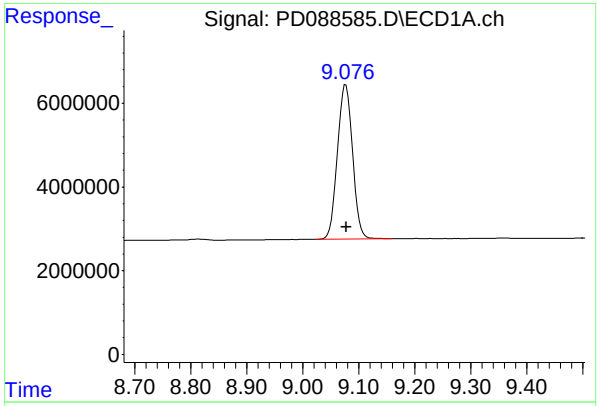
#21 Endrin ketone

R.T.: 7.633 min
Delta R.T.: 0.000 min
Response: 64436060
Conc: 18.82 ng/ml



#21 Endrin ketone

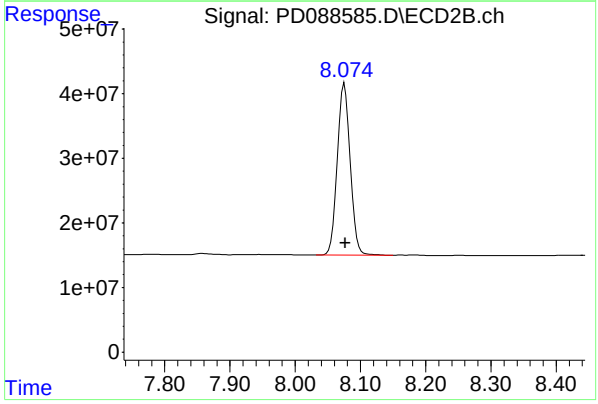
R.T.: 6.994 min
Delta R.T.: -0.001 min
Response: 381682681
Conc: 19.73 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.077 min
Delta R.T.: 0.000 mi
Response: 69355454
Conc: 20.27 ng/m

Instrument :
ECD_D
ClientSampleId :
RESCHK



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.001 min
Response: 365434486
Conc: 20.02 ng/ml

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Analytical Sequence

Client: Nobis Group **SDG No.:** Q1984

Project: Raymark Superfund Site **Instrument ID:** ECD_D

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 04/18/2025 04/18/2025

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 #
I.BLK	I.BLK	04/18/2025	13:15	PD088121.D	9.07	3.55
PEM	PEM	04/18/2025	13:29	PD088122.D	9.08	3.55
RESCHK	RESCHK	04/18/2025	13:43	PD088123.D	9.08	3.55
PSTDICC100	PSTDICC100	04/18/2025	13:56	PD088124.D	9.08	3.55
PSTDICC075	PSTDICC075	04/18/2025	14:10	PD088125.D	9.07	3.55
PSTDICC050	PSTDICC050	04/18/2025	14:24	PD088126.D	9.08	3.55
PSTDICC025	PSTDICC025	04/18/2025	14:37	PD088127.D	9.08	3.55
PSTDICC005	PSTDICC005	04/18/2025	14:51	PD088128.D	9.08	3.55
PCHLORICC500	PCHLORICC500	04/18/2025	15:32	PD088131.D	9.07	3.55
PTOXICC500	PTOXICC500	04/18/2025	16:40	PD088136.D	9.07	3.55
PEM	PEM	05/13/2025	09:41	PD088498.D	9.07	3.55
I.BLK	I.BLK	05/13/2025	16:35	PD088523.D	9.08	3.56
PSTDCCC050	PSTDCCC050	05/13/2025	16:48	PD088524.D	9.07	3.55
PB167959BL	PB167959BL	05/13/2025	17:02	PD088525.D	9.07	3.55
PB167959BS	PB167959BS	05/13/2025	17:15	PD088526.D	9.07	3.55
I.BLK	I.BLK	05/13/2025	19:18	PD088535.D	9.07	3.55
PSTDCCC050	PSTDCCC050	05/13/2025	19:46	PD088537.D	9.07	3.55
I.BLK	I.BLK	05/15/2025	08:47	PD088551.D	9.08	3.55
PEM	PEM	05/15/2025	09:18	PD088552.D	9.08	3.56
PSTDCCC050	PSTDCCC050	05/15/2025	09:32	PD088553.D	9.08	3.55
OU4-PCS-TC-33-050725	Q1984-01	05/15/2025	12:38	PD088558.D	9.08	3.56
OU4-PCS-TC-33-050725MS	Q1984-01MS	05/15/2025	12:52	PD088559.D	9.08	3.55
OU4-PCS-TC-33-050725MSD	Q1984-01MSD	05/15/2025	13:05	PD088560.D	9.08	3.55
OU4-PCS-TC-34-050725	Q1984-03	05/15/2025	13:19	PD088561.D	9.08	3.55
OU4-PCS-TC-35-050725	Q1984-05	05/15/2025	13:33	PD088562.D	9.08	3.55
OU4-TS-24-050725	Q1984-07	05/15/2025	13:46	PD088563.D	9.07	3.55
OU4-TS-25-050725	Q1984-09	05/15/2025	14:00	PD088564.D	9.08	3.55
I.BLK	I.BLK	05/15/2025	14:14	PD088565.D	9.08	3.55
PSTDCCC050	PSTDCCC050	05/15/2025	15:11	PD088566.D	9.08	3.56
OU4-TS-26-050725	Q1984-11	05/15/2025	18:08	PD088569.D	9.08	3.55
OU4-TS-27-050725	Q1984-13	05/15/2025	18:22	PD088570.D	9.08	3.55
OU4-TS-28-050725	Q1984-15	05/15/2025	18:35	PD088571.D	9.08	3.55
I.BLK	I.BLK	05/15/2025	18:49	PD088572.D	9.08	3.55
PSTDCCC050	PSTDCCC050	05/15/2025	19:02	PD088573.D	9.08	3.55
I.BLK	I.BLK	05/19/2025	10:50	PD088583.D	9.08	3.55
PEM	PEM	05/19/2025	11:04	PD088584.D	9.08	3.55
RESCHK	RESCHK	05/19/2025	11:17	PD088585.D	9.08	3.55
PSTDICC100	PSTDICC100	05/19/2025	11:31	PD088586.D	9.08	3.55
PSTDICC075	PSTDICC075	05/19/2025	11:45	PD088587.D	9.08	3.55
PSTDICC050	PSTDICC050	05/19/2025	11:58	PD088588.D	9.08	3.55
PSTDICC025	PSTDICC025	05/19/2025	12:12	PD088589.D	9.08	3.55
PSTDICC005	PSTDICC005	05/19/2025	12:25	PD088590.D	9.08	3.55

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Analytical Sequence

PCHLORICC500	PCHLORICC500	05/19/2025	13:06	PD088593.D	9.08	3.55
PTOXICC500	PTOXICC500	05/19/2025	14:14	PD088598.D	9.08	3.55
I.BLK	I.BLK	05/19/2025	15:35	PD088604.D	9.08	3.55
PEM	PEM	05/19/2025	15:49	PD088605.D	9.08	3.55
PSTDCCC050	PSTDCCC050	05/19/2025	16:02	PD088606.D	9.08	3.55
OU4-TS-25-050725RE	Q1984-09RE	05/19/2025	16:50	PD088609.D	9.08	3.56
OU4-TS-26-050725RE	Q1984-11RE	05/19/2025	17:04	PD088610.D	9.08	3.55
OU4-TS-27-050725RE	Q1984-13RE	05/19/2025	17:18	PD088611.D	9.08	3.55
OU4-TS-28-050725RE	Q1984-15RE	05/19/2025	17:31	PD088612.D	9.08	3.55
I.BLK	I.BLK	05/19/2025	17:45	PD088613.D	9.08	3.55
PSTDCCC050	PSTDCCC050	05/19/2025	18:45	PD088614.D	9.08	3.55

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Analytical Sequence

Client: Nobis Group **SDG No.:** Q1984

Project: Raymark Superfund Site **Instrument ID:** ECD_D

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 04/18/2025 04/18/2025

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 #
I.BLK	I.BLK	04/18/2025	13:15	PD088121.D	8.08	2.88
PEM	PEM	04/18/2025	13:29	PD088122.D	8.08	2.88
RESCHK	RESCHK	04/18/2025	13:43	PD088123.D	8.08	2.88
PSTDICC100	PSTDICC100	04/18/2025	13:56	PD088124.D	8.09	2.90
PSTDICC075	PSTDICC075	04/18/2025	14:10	PD088125.D	8.08	2.88
PSTDICC050	PSTDICC050	04/18/2025	14:24	PD088126.D	8.08	2.88
PSTDICC025	PSTDICC025	04/18/2025	14:37	PD088127.D	8.08	2.88
PSTDICC005	PSTDICC005	04/18/2025	14:51	PD088128.D	8.08	2.88
PCHLORICC500	PCHLORICC500	04/18/2025	15:32	PD088131.D	8.08	2.88
PTOXICC500	PTOXICC500	04/18/2025	16:40	PD088136.D	8.08	2.88
PEM	PEM	05/13/2025	09:41	PD088498.D	8.07	2.88
I.BLK	I.BLK	05/13/2025	16:35	PD088523.D	8.08	2.88
PSTDCCC050	PSTDCCC050	05/13/2025	16:48	PD088524.D	8.07	2.88
PB167959BL	PB167959BL	05/13/2025	17:02	PD088525.D	8.07	2.88
PB167959BS	PB167959BS	05/13/2025	17:15	PD088526.D	8.07	2.88
I.BLK	I.BLK	05/13/2025	19:18	PD088535.D	8.07	2.88
PSTDCCC050	PSTDCCC050	05/13/2025	19:46	PD088537.D	8.07	2.88
I.BLK	I.BLK	05/15/2025	08:47	PD088551.D	8.08	2.88
PEM	PEM	05/15/2025	09:18	PD088552.D	8.08	2.88
PSTDCCC050	PSTDCCC050	05/15/2025	09:32	PD088553.D	8.08	2.88
OU4-PCS-TC-33-050725	Q1984-01	05/15/2025	12:38	PD088558.D	8.08	2.88
OU4-PCS-TC-33-050725MS	Q1984-01MS	05/15/2025	12:52	PD088559.D	8.08	2.88
OU4-PCS-TC-33-050725MSD	Q1984-01MSD	05/15/2025	13:05	PD088560.D	8.07	2.88
OU4-PCS-TC-34-050725	Q1984-03	05/15/2025	13:19	PD088561.D	8.08	2.88
OU4-PCS-TC-35-050725	Q1984-05	05/15/2025	13:33	PD088562.D	8.08	2.88
OU4-TS-24-050725	Q1984-07	05/15/2025	13:46	PD088563.D	8.07	2.88
OU4-TS-25-050725	Q1984-09	05/15/2025	14:00	PD088564.D	8.07	2.88
I.BLK	I.BLK	05/15/2025	14:14	PD088565.D	8.08	2.88
PSTDCCC050	PSTDCCC050	05/15/2025	15:11	PD088566.D	8.08	2.88
OU4-TS-26-050725	Q1984-11	05/15/2025	18:08	PD088569.D	8.08	2.88
OU4-TS-27-050725	Q1984-13	05/15/2025	18:22	PD088570.D	8.07	2.88
OU4-TS-28-050725	Q1984-15	05/15/2025	18:35	PD088571.D	8.07	2.88
I.BLK	I.BLK	05/15/2025	18:49	PD088572.D	8.08	2.88
PSTDCCC050	PSTDCCC050	05/15/2025	19:02	PD088573.D	8.08	2.88
I.BLK	I.BLK	05/19/2025	10:50	PD088583.D	8.08	2.88
PEM	PEM	05/19/2025	11:04	PD088584.D	8.08	2.88
RESCHK	RESCHK	05/19/2025	11:17	PD088585.D	8.08	2.88
PSTDICC100	PSTDICC100	05/19/2025	11:31	PD088586.D	8.08	2.88
PSTDICC075	PSTDICC075	05/19/2025	11:45	PD088587.D	8.08	2.88
PSTDICC050	PSTDICC050	05/19/2025	11:58	PD088588.D	8.08	2.88
PSTDICC025	PSTDICC025	05/19/2025	12:12	PD088589.D	8.08	2.88
PSTDICC005	PSTDICC005	05/19/2025	12:25	PD088590.D	8.08	2.88

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Analytical Sequence

PCHLORICC500	PCHLORICC500	05/19/2025	13:06	PD088593.D	8.08	2.88
PTOXICC500	PTOXICC500	05/19/2025	14:14	PD088598.D	8.08	2.88
I.BLK	I.BLK	05/19/2025	15:35	PD088604.D	8.08	2.88
PEM	PEM	05/19/2025	15:49	PD088605.D	8.08	2.88
PSTDCCC050	PSTDCCC050	05/19/2025	16:02	PD088606.D	8.08	2.88
OU4-TS-25-050725RE	Q1984-09RE	05/19/2025	16:50	PD088609.D	8.08	2.88
OU4-TS-26-050725RE	Q1984-11RE	05/19/2025	17:04	PD088610.D	8.08	2.88
OU4-TS-27-050725RE	Q1984-13RE	05/19/2025	17:18	PD088611.D	8.09	2.90
OU4-TS-28-050725RE	Q1984-15RE	05/19/2025	17:31	PD088612.D	8.08	2.88
I.BLK	I.BLK	05/19/2025	17:45	PD088613.D	8.08	2.88
PSTDCCC050	PSTDCCC050	05/19/2025	18:45	PD088614.D	8.08	2.88

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
OU4-PCS-TC-33-050725MS

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Lab Sample ID: Q1984-01MS **Date(s) Analyzed:** 05/15/2025 05/15/2025

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

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
4,4'-DDD	1	6.71	6.66	6.76	20.1	20.3
	2	5.93	5.88	5.98	16.4	
4,4'-DDE	1	6.20	6.15	6.25	19.2	12.2
	2	5.38	5.33	5.43	17.0	
Endosulfan II	1	6.79	6.74	6.84	19.0	11.7
	2	6.08	6.03	6.13	16.9	
4,4'-DDT	1	7.02	6.97	7.07	19.3	11.5
	2	6.19	6.14	6.24	17.2	
Endrin aldehyde	1	6.92	6.87	6.97	19.5	13.7
	2	6.26	6.21	6.31	17.0	
Endosulfan sulfate	1	7.15	7.10	7.20	19.2	15.7
	2	6.48	6.43	6.53	16.4	
Endrin ketone	1	7.63	7.58	7.68	19.6	14.8
	2	6.99	6.94	7.04	16.9	
alpha-BHC	1	4.00	3.95	4.05	19.7	11.8
	2	3.40	3.35	3.45	17.5	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	20.1	16.7
	2	3.73	3.68	3.78	17.0	
Aldrin	1	5.27	5.22	5.32	20.0	15.1
	2	4.37	4.32	4.42	17.2	
beta-BHC	1	4.52	4.47	4.57	19.4	10.9
	2	4.03	3.98	4.08	17.4	
delta-BHC	1	4.77	4.72	4.82	19.9	13.4
	2	4.26	4.21	4.31	17.4	
Endosulfan I	1	6.08	6.03	6.13	19.8	14.6
	2	5.25	5.20	5.30	17.1	
alpha-Chlordane	1	6.03	5.98	6.08	19.8	14.6
	2	5.19	5.14	5.24	17.1	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

OU4-PCS-TC-33-050725MS

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Lab Sample ID: Q1984-01MS **Date(s) Analyzed:** 05/15/2025 05/15/2025

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

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Dieldrin	1	6.35	6.30	6.40	20.0	15.6
	2	5.52	5.47	5.57	17.1	
Endrin	1	6.58	6.53	6.63	19.6	13
	2	5.79	5.74	5.84	17.2	
Methoxychlor	1	7.50	7.45	7.55	18.6	10.8
	2	6.76	6.71	6.81	16.7	
Heptachlor	1	4.93	4.88	4.98	20.4	14.7
	2	4.09	4.04	4.14	17.6	
Heptachlor epoxide	1	5.69	5.64	5.74	19.8	14.6
	2	4.88	4.83	4.93	17.1	
gamma-Chlordane	1	5.95	5.90	6.00	19.7	13.6
	2	5.13	5.08	5.18	17.2	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
OU4-PCS-TC-33-050725MSD

Contract: NOBI03
Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984
Lab Sample ID: Q1984-01MSD **Date(s) Analyzed:** 05/15/2025 05/15/2025
Instrument ID (1): ECD_D **Instrument ID (2):** ECD_D
GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endosulfan II	1	6.79	6.74	6.84	19.2	13.3
	2	6.08	6.03	6.13	16.8	
4,4'-DDD	1	6.71	6.66	6.76	20.3	19.5
	2	5.93	5.88	5.98	16.7	
4,4'-DDT	1	7.02	6.97	7.07	19.4	12.6
	2	6.19	6.14	6.24	17.1	
Endrin aldehyde	1	6.92	6.87	6.97	19.6	14.2
	2	6.26	6.21	6.31	17.0	
Endosulfan sulfate	1	7.15	7.10	7.20	19.4	13.8
	2	6.48	6.43	6.53	16.9	
Methoxychlor	1	7.49	7.44	7.54	18.8	11.2
	2	6.76	6.71	6.81	16.8	
Endrin ketone	1	7.63	7.58	7.68	19.7	13.6
	2	6.99	6.94	7.04	17.2	
alpha-BHC	1	4.00	3.95	4.05	19.9	11.1
	2	3.40	3.35	3.45	17.8	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	20.3	16.5
	2	3.73	3.68	3.78	17.2	
Heptachlor	1	4.93	4.88	4.98	20.7	15.1
	2	4.09	4.04	4.14	17.8	
Aldrin	1	5.27	5.22	5.32	20.4	15.3
	2	4.37	4.32	4.42	17.5	
beta-BHC	1	4.52	4.47	4.57	19.5	9.1
	2	4.03	3.98	4.08	17.8	
delta-BHC	1	4.77	4.72	4.82	20.0	12.8
	2	4.26	4.21	4.31	17.6	
Heptachlor epoxide	1	5.69	5.64	5.74	19.8	13.5
	2	4.87	4.82	4.92	17.3	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

OU4-PCS-TC-33-050725MSD

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Lab Sample ID: Q1984-01MSD **Date(s) Analyzed:** 05/15/2025 05/15/2025

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

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endosulfan I	1	6.08	6.03	6.13	20.0	13.9
	2	5.25	5.20	5.30	17.4	
gamma-Chlordane	1	5.95	5.90	6.00	19.8	13.5
	2	5.13	5.08	5.18	17.3	
alpha-Chlordane	1	6.03	5.98	6.08	19.9	14
	2	5.19	5.14	5.24	17.3	
4,4'-DDE	1	6.20	6.15	6.25	19.4	11.4
	2	5.38	5.33	5.43	17.3	
Dieldrin	1	6.35	6.30	6.40	20.2	14.9
	2	5.51	5.46	5.56	17.4	
Endrin	1	6.58	6.53	6.63	19.8	12.9
	2	5.79	5.74	5.84	17.4	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

OU4-TS-24-050725

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Lab Sample ID: Q1984-07 **Date(s) Analyzed:** 05/15/2025 05/15/2025

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

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
alpha-Chlordane	1	6.03	5.98	6.08	1.60	37
	2	5.19	5.14	5.24	1.10	
4,4'-DDE	1	6.20	6.15	6.25	0.83	19.1
	2	5.38	5.33	5.43	1.00	
Dieldrin	1	6.35	6.30	6.40	0.52	2.7
	2	5.51	5.46	5.56	0.53	
gamma-Chlordane	1	5.95	5.90	6.00	1.20	22.2
	2	5.13	5.08	5.18	1.50	
Endrin	1	6.58	6.53	6.63	0.27	23.5
	2	5.79	5.74	5.84	0.21	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

OU4-TS-25-050725

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Lab Sample ID: Q1984-09 **Date(s) Analyzed:** 05/15/2025 05/15/2025

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

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
gamma-Chlordane	1	5.95	5.90	6.00	0.92	17.8
	2	5.13	5.08	5.18	1.10	
alpha-Chlordane	1	6.03	5.98	6.08	1.40	57
	2	5.19	5.14	5.24	0.78	
4,4'-DDE	1	6.20	6.15	6.25	0.92	8.3
	2	5.38	5.33	5.43	1.00	
Dieldrin	1	6.35	6.30	6.40	0.42	10
	2	5.51	5.46	5.56	0.47	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

OU4-TS-25-050725RE

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Lab Sample ID: Q1984-09RE **Date(s) Analyzed:** 05/19/2025 05/19/2025

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

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
gamma-Chlordane	1	5.95	5.90	6.00	0.85	41.6
	2	5.13	5.08	5.18	1.30	
alpha-Chlordane	1	6.04	5.99	6.09	1.20	45
	2	5.19	5.14	5.24	0.76	
4,4'-DDE	1	6.20	6.15	6.25	0.74	38.6
	2	5.38	5.33	5.43	1.10	
Dieldrin	1	6.36	6.31	6.41	0.37	19.3
	2	5.51	5.46	5.56	0.45	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

OU4-TS-26-050725

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Lab Sample ID: Q1984-11 **Date(s) Analyzed:** 05/15/2025 05/15/2025

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

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
alpha-Chlordane	1	6.03	5.98	6.08	0.59	43.7
	2	5.19	5.14	5.24	0.38	
4,4'-DDE	1	6.20	6.15	6.25	1.20	8
	2	5.38	5.33	5.43	1.30	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

OU4-TS-26-050725RE

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Lab Sample ID: Q1984-11RE **Date(s) Analyzed:** 05/19/2025 05/19/2025

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

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
alpha-Chlordane	1	6.03	5.98	6.08	0.51	21.4
	2	5.19	5.14	5.24	0.41	
4,4'-DDE	1	6.20	6.15	6.25	0.85	16.6
	2	5.38	5.33	5.43	1.00	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

OU4-TS-27-050725

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Lab Sample ID: Q1984-13 **Date(s) Analyzed:** 05/15/2025 05/15/2025

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

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
gamma-Chlordane	1	5.95	5.90	6.00	0.61	17.5
	2	5.12	5.07	5.17	0.73	
alpha-Chlordane	1	6.03	5.98	6.08	0.85	55.4
	2	5.19	5.14	5.24	0.48	
4,4'-DDE	1	6.20	6.15	6.25	0.59	23.8
	2	5.38	5.33	5.43	0.75	
Dieldrin	1	6.35	6.30	6.40	0.34	1.6
	2	5.51	5.46	5.56	0.34	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

OU4-TS-27-050725RE

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Lab Sample ID: Q1984-13RE **Date(s) Analyzed:** 05/19/2025 05/19/2025

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

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
gamma-Chlordane	1	5.95	5.90	6.00	0.49	41.4
	2	5.14	5.09	5.19	0.75	
alpha-Chlordane	1	6.03	5.98	6.08	0.59	30.1
	2	5.21	5.16	5.26	0.44	
4,4'-DDE	1	6.20	6.15	6.25	0.45	40.8
	2	5.39	5.34	5.44	0.68	
Dieldrin	1	6.35	6.30	6.40	0.25	29.1
	2	5.53	5.48	5.58	0.34	
Endrin	1	6.58	6.53	6.63	0.25	19.6
	2	5.81	5.76	5.86	0.30	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

OU4-TS-28-050725

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Lab Sample ID: Q1984-15 **Date(s) Analyzed:** 05/15/2025 05/15/2025

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

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
gamma-Chlordane	1	5.95	5.90	6.00	0.48	44
	2	5.12	5.07	5.17	0.76	
alpha-Chlordane	1	6.03	5.98	6.08	0.82	53.4
	2	5.19	5.14	5.24	0.47	
4,4'-DDE	1	6.20	6.15	6.25	0.55	24.1
	2	5.38	5.33	5.43	0.70	
Dieldrin	1	6.35	6.30	6.40	0.35	11.3
	2	5.51	5.46	5.56	0.39	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

OU4-TS-28-050725RE

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Lab Sample ID: Q1984-15RE **Date(s) Analyzed:** 05/19/2025 05/19/2025

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

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
4,4'-DDE	1	6.20	6.15	6.25	0.51	44.4
	2	5.38	5.33	5.43	0.79	
gamma-Chlordane	1	5.95	5.90	6.00	0.39	59.3
	2	5.12	5.07	5.17	0.72	
alpha-Chlordane	1	6.03	5.98	6.08	0.58	12.3
	2	5.19	5.14	5.24	0.51	
Dieldrin	1	6.35	6.30	6.40	0.24	65.7
	2	5.51	5.46	5.56	0.48	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB167959BS

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Lab Sample ID: PB167959BS **Date(s) Analyzed:** 05/13/2025 05/13/2025

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

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
4,4'-DDD	1	6.71	6.66	6.76	18.5	12
	2	5.93	5.88	5.98	16.4	
4,4'-DDT	1	7.02	6.97	7.07	17.3	12.3
	2	6.19	6.14	6.24	15.3	
alpha-BHC	1	4.00	3.95	4.05	17.7	9.5
	2	3.40	3.35	3.45	16.1	
Aldrin	1	5.27	5.22	5.32	18.1	11.1
	2	4.37	4.32	4.42	16.2	
beta-BHC	1	4.52	4.47	4.57	17.3	7.8
	2	4.03	3.98	4.08	16.0	
alpha-Chlordane	1	6.03	5.98	6.08	18.1	12.9
	2	5.19	5.14	5.24	15.9	
4,4'-DDE	1	6.20	6.15	6.25	17.7	9.5
	2	5.38	5.33	5.43	16.1	
Endosulfan II	1	6.79	6.74	6.84	17.6	10.8
	2	6.08	6.03	6.13	15.8	
Endrin aldehyde	1	6.92	6.87	6.97	17.8	11.9
	2	6.26	6.21	6.31	15.8	
Endosulfan sulfate	1	7.15	7.10	7.20	17.9	13.1
	2	6.48	6.43	6.53	15.7	
Methoxychlor	1	7.49	7.44	7.54	16.6	10.1
	2	6.76	6.71	6.81	15.0	
Endrin ketone	1	7.63	7.58	7.68	18.0	13
	2	6.99	6.94	7.04	15.8	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	17.5	9.6
	2	3.73	3.68	3.78	15.9	
Heptachlor	1	4.93	4.88	4.98	18.0	13
	2	4.08	4.03	4.13	15.8	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB167959BS

Contract: NOBI03

Lab Code: CHEM **Case No.:** Q1984 **SAS No.:** Q1984 **SDG NO.:** Q1984

Lab Sample ID: PB167959BS **Date(s) Analyzed:** 05/13/2025 05/13/2025

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

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
delta-BHC	1	4.77	4.72	4.82	18.0	10.5
	2	4.26	4.21	4.31	16.2	
Heptachlor epoxide	1	5.69	5.64	5.74	18.1	12.3
	2	4.88	4.83	4.93	16.0	
Endosulfan I	1	6.08	6.03	6.13	18.2	13.5
	2	5.25	5.20	5.30	15.9	
gamma-Chlordane	1	5.95	5.90	6.00	18.1	12.3
	2	5.13	5.08	5.18	16.0	
Dieldrin	1	6.35	6.30	6.40	18.3	13.4
	2	5.52	5.47	5.57	16.0	
Endrin	1	6.58	6.53	6.63	17.4	12.2
	2	5.79	5.74	5.84	15.4	

QC SAMPLE DATA

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

Report of Analysis

Client:	Nobis Group	Date Collected:	
Project:	Raymark Superfund Site	Date Received:	
Client Sample ID:	PB167959BL	SDG No.:	Q1984
Lab Sample ID:	PB167959BL	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088525.D	1	05/13/25 08:30	05/13/25 17:02	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
319-84-6	alpha-BHC	0.00033	U	0.00013	0.00033	0.0017	mg/Kg
319-85-7	beta-BHC	0.00083	U	0.00018	0.00083	0.0017	mg/Kg
319-86-8	delta-BHC	0.00083	U	0.00039	0.00083	0.0017	mg/Kg
58-89-9	gamma-BHC (Lindane)	0.00033	U	0.00014	0.00033	0.0017	mg/Kg
76-44-8	Heptachlor	0.00033	U	0.00012	0.00033	0.0017	mg/Kg
309-00-2	Aldrin	0.00033	U	0.00012	0.00033	0.0017	mg/Kg
1024-57-3	Heptachlor epoxide	0.00083	U	0.00019	0.00083	0.0017	mg/Kg
959-98-8	Endosulfan I	0.00033	U	0.00014	0.00033	0.0017	mg/Kg
60-57-1	Dieldrin	0.00033	U	0.00014	0.00033	0.0017	mg/Kg
72-55-9	4,4-DDE	0.00033	U	0.00014	0.00033	0.0017	mg/Kg
72-20-8	Endrin	0.00033	U	0.00014	0.00033	0.0017	mg/Kg
33213-65-9	Endosulfan II	0.00083	U	0.00029	0.00083	0.0017	mg/Kg
72-54-8	4,4-DDD	0.00033	U	0.00015	0.00033	0.0017	mg/Kg
1031-07-8	Endosulfan Sulfate	0.00033	U	0.00013	0.00033	0.0017	mg/Kg
50-29-3	4,4-DDT	0.00033	U	0.00014	0.00033	0.0017	mg/Kg
72-43-5	Methoxychlor	0.00083	U	0.00037	0.00083	0.0017	mg/Kg
53494-70-5	Endrin ketone	0.00083	U	0.00019	0.00083	0.0017	mg/Kg
7421-93-4	Endrin aldehyde	0.00083	U	0.00037	0.00083	0.0017	mg/Kg
5103-71-9	alpha-Chlordane	0.00033	U	0.00012	0.00033	0.0017	mg/Kg
5103-74-2	gamma-Chlordane	0.00033	U	0.00015	0.00033	0.0017	mg/Kg
8001-35-2	Toxaphene	0.017	U	0.0054	0.017	0.033	mg/Kg
SURROGATES							
2051-24-3	Decachlorobiphenyl	20.1		55 - 130		100%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.3		42 - 129		97%	SPK: 20

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

Report of Analysis

Client:	Nobis Group	Date Collected:	
Project:	Raymark Superfund Site	Date Received:	
Client Sample ID:	PB167959BL	SDG No.:	Q1984
Lab Sample ID:	PB167959BL	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088525.D	1	05/13/25 08:30	05/13/25 17:02	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051325\
Data File : PD088525.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2025 17:02
Operator : AR\AJ
Sample : PB167959BL
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB167959BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 22:44:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.551	2.882	38568145	279.6E6	19.309	19.124
28)	SA Decachlor...	9.073	8.074	66384067	333.5E6	20.067	18.048
	Target Compounds						

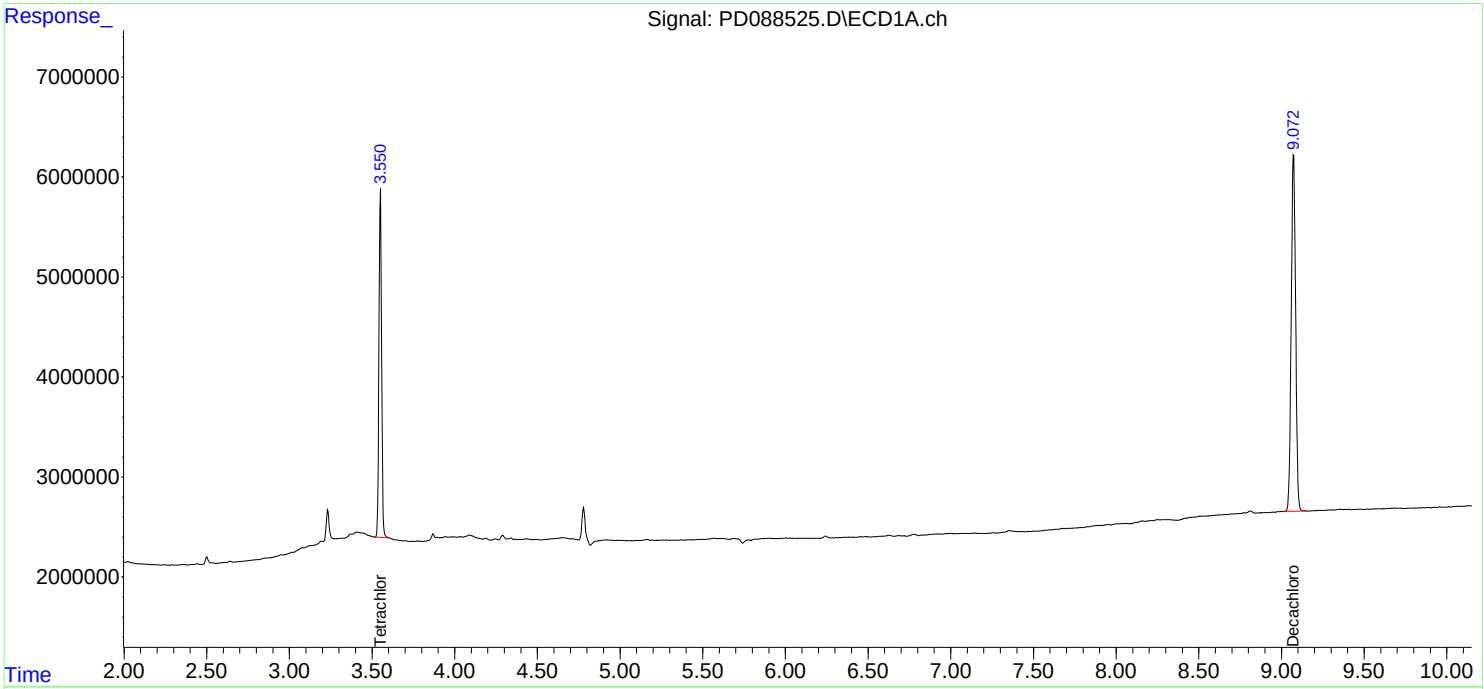
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

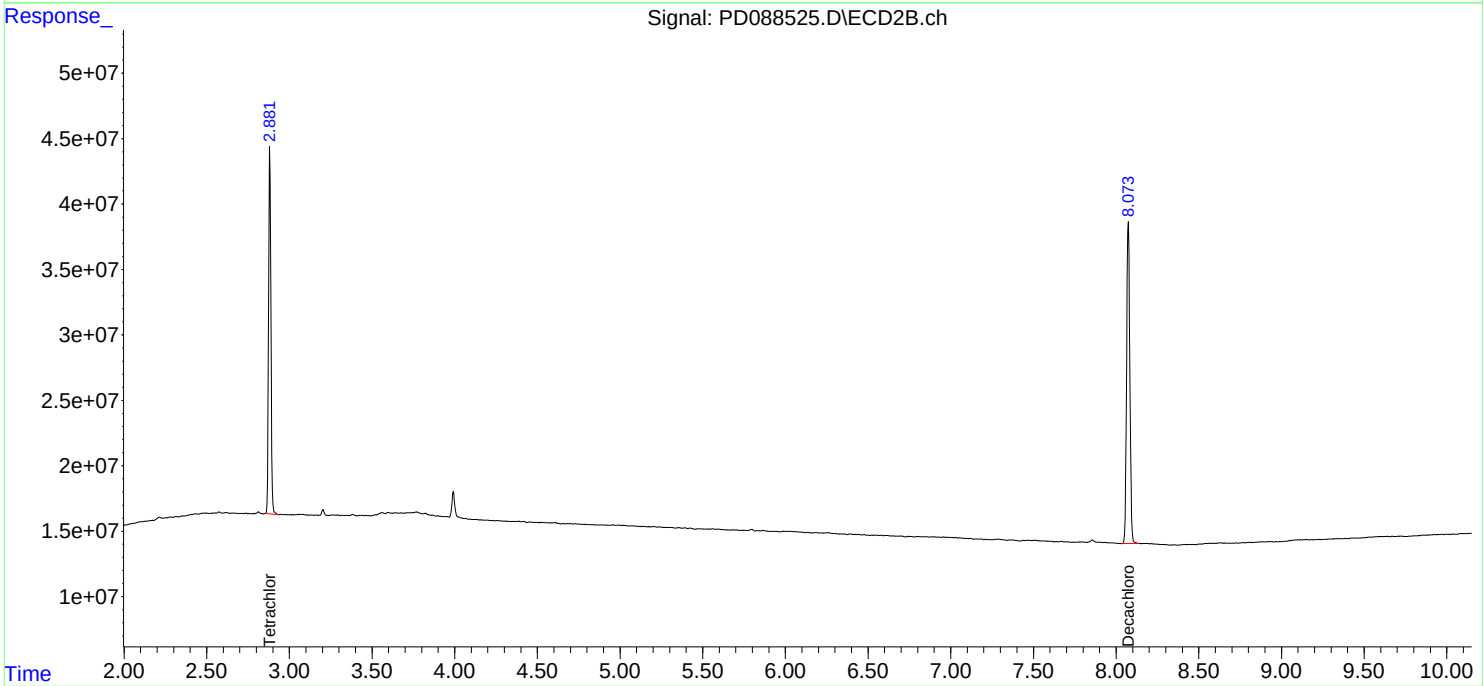
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051325\
Data File : PD088525.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2025 17:02
Operator : AR\AJ
Sample : PB167959BL
Misc :
ALS Vial : 26 Sample Multiplier: 1

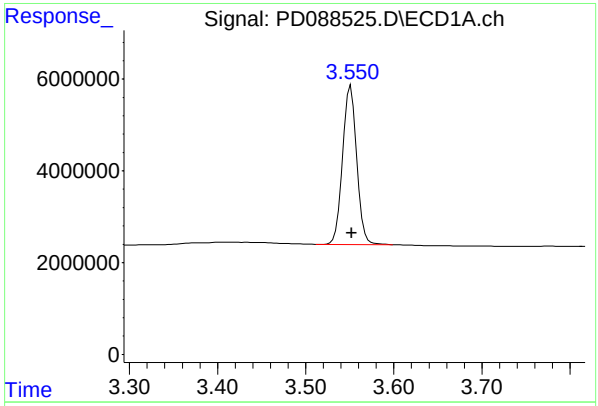
Instrument :
ECD_D
ClientSampleId :
PB167959BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 22:44:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



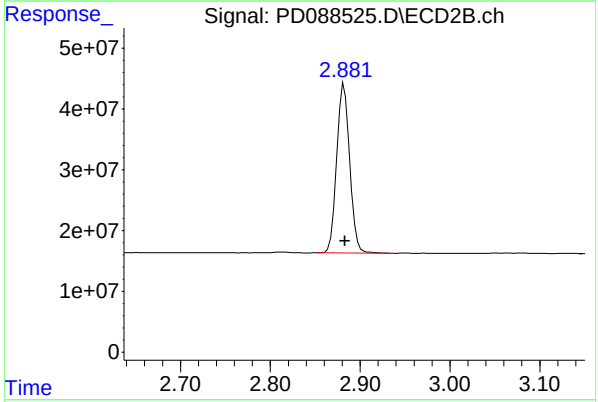




#1 Tetrachloro-m-xylene

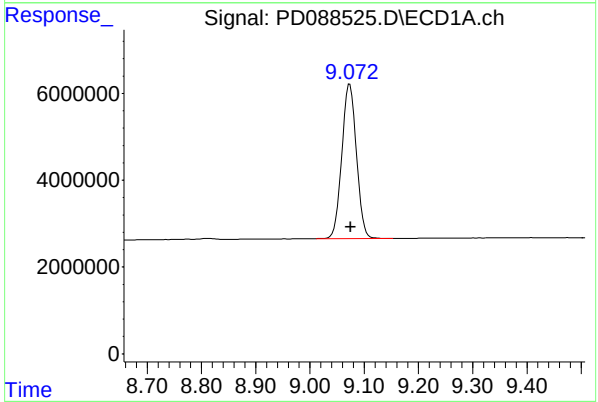
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 38568145
Conc: 19.31 ng/ml

Instrument :
ECD_D
ClientSampleId :
PB167959BL



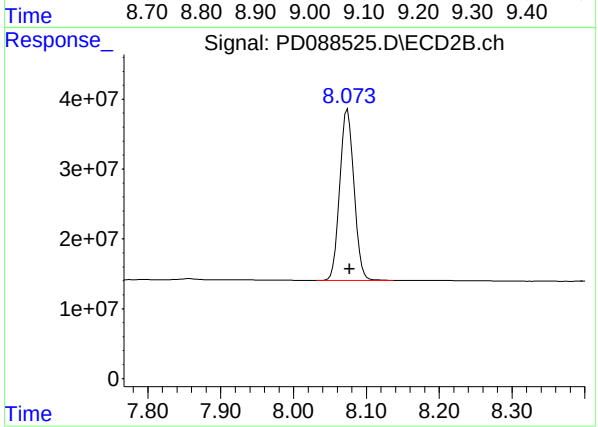
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 279618872
Conc: 19.12 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.073 min
Delta R.T.: -0.002 min
Response: 66384067
Conc: 20.07 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.074 min
Delta R.T.: -0.003 min
Response: 333511091
Conc: 18.05 ng/ml

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

Report of Analysis

Client:	Nobis Group	Date Collected:	04/18/25
Project:	Raymark Superfund Site	Date Received:	04/18/25
Client Sample ID:	PIBLK-PD088121.D	SDG No.:	Q1984
Lab Sample ID:	I.BLK-PD088121.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088121.D	1		04/18/25	PD041825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
319-84-6	alpha-BHC	0.000010	U	0.0000039	0.000010	0.000050	mg/L
319-85-7	beta-BHC	0.000010	U	0.0000049	0.000010	0.000050	mg/L
319-86-8	delta-BHC	0.000025	U	0.000011	0.000025	0.000050	mg/L
58-89-9	gamma-BHC (Lindane)	0.000010	U	0.0000037	0.000010	0.000050	mg/L
76-44-8	Heptachlor	0.000010	U	0.0000027	0.000010	0.000050	mg/L
309-00-2	Aldrin	0.000010	U	0.0000036	0.000010	0.000050	mg/L
1024-57-3	Heptachlor epoxide	0.000025	U	0.0000096	0.000025	0.000050	mg/L
959-98-8	Endosulfan I	0.000010	U	0.0000031	0.000010	0.000050	mg/L
60-57-1	Dieldrin	0.000010	U	0.0000036	0.000010	0.000050	mg/L
72-55-9	4,4-DDE	0.000010	U	0.0000037	0.000010	0.000050	mg/L
72-20-8	Endrin	0.000010	U	0.0000032	0.000010	0.000050	mg/L
33213-65-9	Endosulfan II	0.000025	U	0.0000079	0.000025	0.000050	mg/L
72-54-8	4,4-DDD	0.000025	U	0.0000071	0.000025	0.000050	mg/L
1031-07-8	Endosulfan Sulfate	0.000010	U	0.0000037	0.000010	0.000050	mg/L
50-29-3	4,4-DDT	0.000010	U	0.0000035	0.000010	0.000050	mg/L
72-43-5	Methoxychlor	0.000025	U	0.000011	0.000025	0.000050	mg/L
53494-70-5	Endrin ketone	0.000025	U	0.0000093	0.000025	0.000050	mg/L
7421-93-4	Endrin aldehyde	0.000025	U	0.000011	0.000025	0.000050	mg/L
5103-71-9	alpha-Chlordane	0.000010	U	0.0000035	0.000010	0.000050	mg/L
5103-74-2	gamma-Chlordane	0.000010	U	0.0000039	0.000010	0.000050	mg/L
8001-35-2	Toxaphene	0.00050	U	0.00017	0.00050	0.0010	mg/L
SURROGATES							
2051-24-3	Decachlorobiphenyl	22.9		30 - 135		115%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.9		44 - 124		104%	SPK: 20

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

Report of Analysis

Client:	Nobis Group	Date Collected:	04/18/25
Project:	Raymark Superfund Site	Date Received:	04/18/25
Client Sample ID:	PIBLK-PD088121.D	SDG No.:	Q1984
Lab Sample ID:	I.BLK-PD088121.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088121.D	1		04/18/25	PD041825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088121.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 13:15
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 06:41:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.552	2.883	40168059	305.0E6	20.110	20.857
28)	SA Decachlor...	9.074	8.076	75778794	419.0E6	22.907	22.673
	Target Compounds						

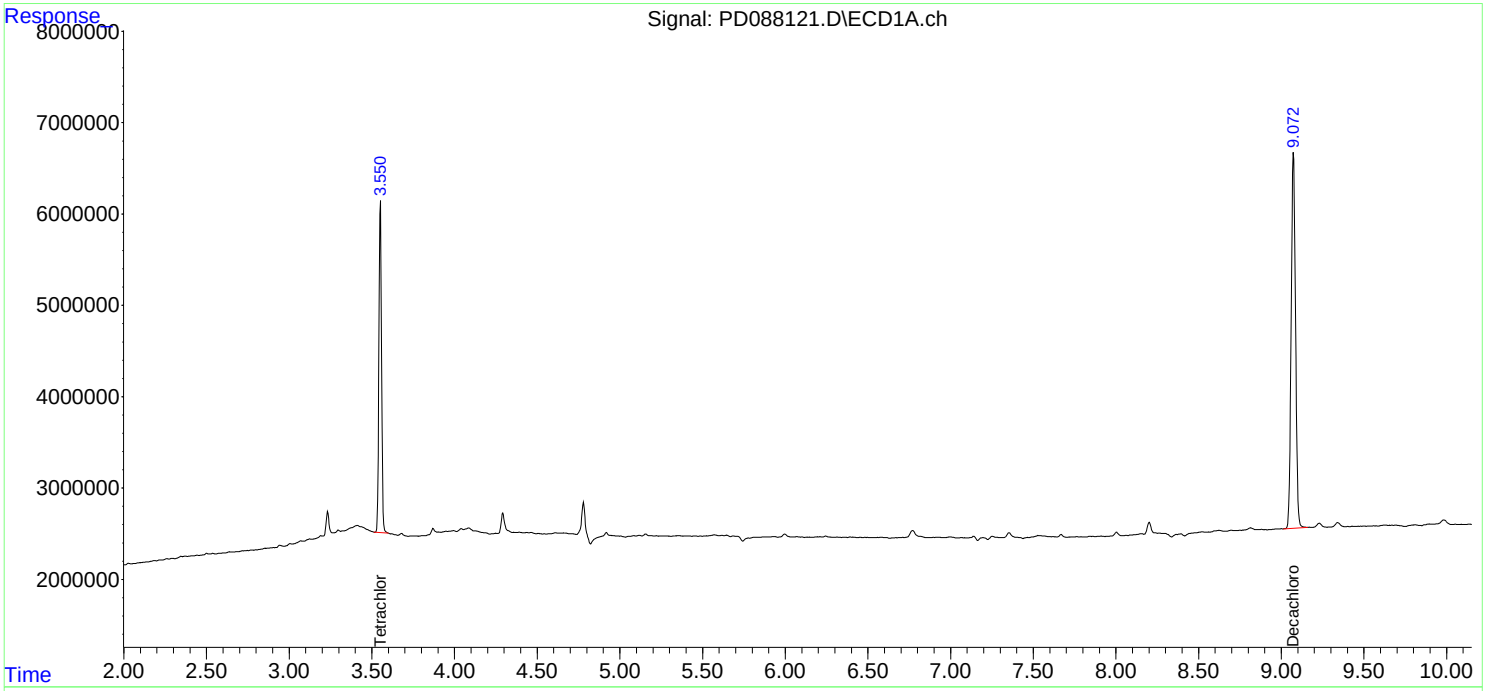
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

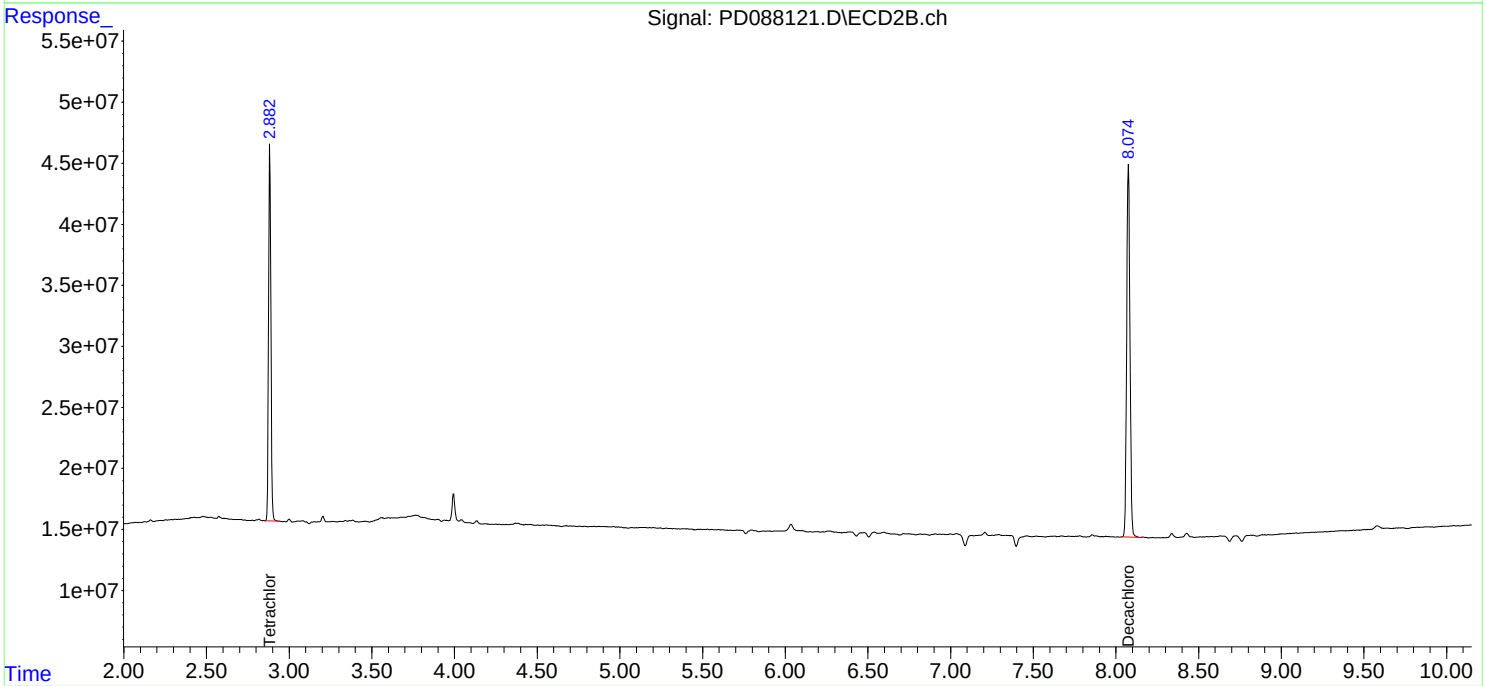
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088121.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 13:15
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

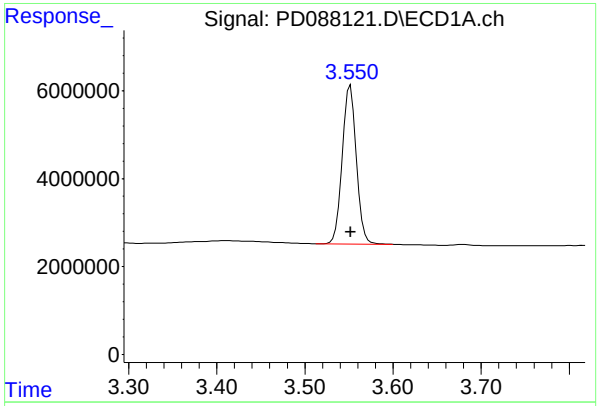
Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 06:41:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



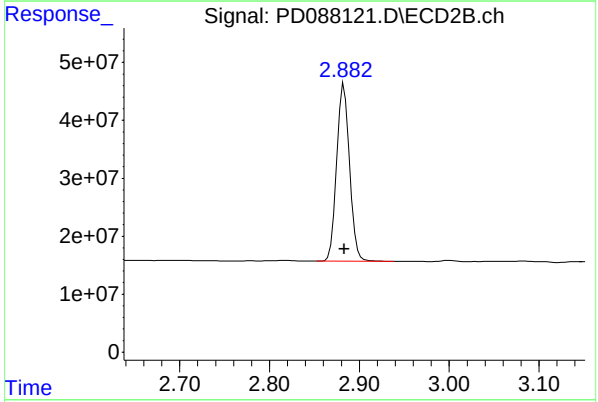




#1 Tetrachloro-m-xylene

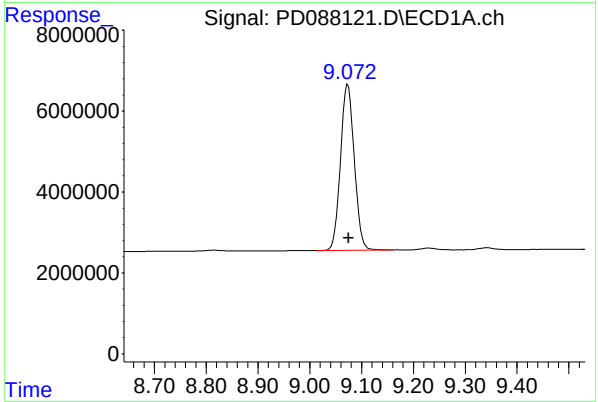
R.T.: 3.552 min
Delta R.T.: 0.000 min
Response: 40168059
Conc: 20.11 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



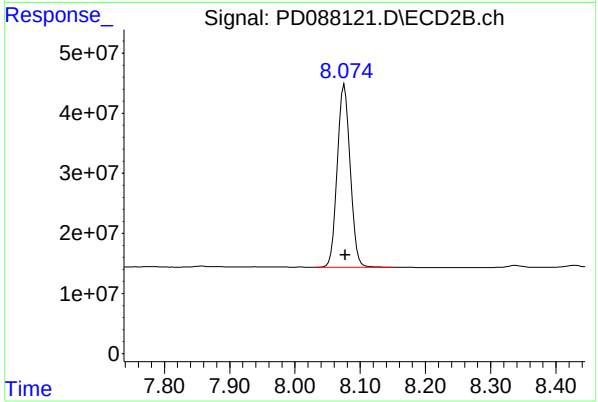
#1 Tetrachloro-m-xylene

R.T.: 2.883 min
Delta R.T.: 0.000 min
Response: 304969472
Conc: 20.86 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.074 min
Delta R.T.: -0.001 min
Response: 75778794
Conc: 22.91 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: -0.001 min
Response: 418982365
Conc: 22.67 ng/ml

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/13/25
Project:	Raymark Superfund Site	Date Received:	05/13/25
Client Sample ID:	PIBLK-PD088523.D	SDG No.:	Q1984
Lab Sample ID:	I.BLK-PD088523.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088523.D	1		05/13/25	pd051325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
319-84-6	alpha-BHC	0.000010	U	0.0000039	0.000010	0.000050	mg/L
319-85-7	beta-BHC	0.000010	U	0.0000049	0.000010	0.000050	mg/L
319-86-8	delta-BHC	0.000025	U	0.000011	0.000025	0.000050	mg/L
58-89-9	gamma-BHC (Lindane)	0.000010	U	0.0000037	0.000010	0.000050	mg/L
76-44-8	Heptachlor	0.000010	U	0.0000027	0.000010	0.000050	mg/L
309-00-2	Aldrin	0.000010	U	0.0000036	0.000010	0.000050	mg/L
1024-57-3	Heptachlor epoxide	0.000025	U	0.0000096	0.000025	0.000050	mg/L
959-98-8	Endosulfan I	0.000010	U	0.0000031	0.000010	0.000050	mg/L
60-57-1	Dieldrin	0.000010	U	0.0000036	0.000010	0.000050	mg/L
72-55-9	4,4-DDE	0.000010	U	0.0000037	0.000010	0.000050	mg/L
72-20-8	Endrin	0.000010	U	0.0000032	0.000010	0.000050	mg/L
33213-65-9	Endosulfan II	0.000025	U	0.0000079	0.000025	0.000050	mg/L
72-54-8	4,4-DDD	0.000025	U	0.0000071	0.000025	0.000050	mg/L
1031-07-8	Endosulfan Sulfate	0.000010	U	0.0000037	0.000010	0.000050	mg/L
50-29-3	4,4-DDT	0.000010	U	0.0000035	0.000010	0.000050	mg/L
72-43-5	Methoxychlor	0.000025	U	0.000011	0.000025	0.000050	mg/L
53494-70-5	Endrin ketone	0.000025	U	0.0000093	0.000025	0.000050	mg/L
7421-93-4	Endrin aldehyde	0.000025	U	0.000011	0.000025	0.000050	mg/L
5103-71-9	alpha-Chlordane	0.000010	U	0.0000035	0.000010	0.000050	mg/L
5103-74-2	gamma-Chlordane	0.000010	U	0.0000039	0.000010	0.000050	mg/L
8001-35-2	Toxaphene	0.00050	U	0.00017	0.00050	0.0010	mg/L
SURROGATES							
2051-24-3	Decachlorobiphenyl	19.3		30 - 135		97%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.3		44 - 124		92%	SPK: 20

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/13/25
Project:	Raymark Superfund Site	Date Received:	05/13/25
Client Sample ID:	PIBLK-PD088523.D	SDG No.:	Q1984
Lab Sample ID:	I.BLK-PD088523.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088523.D	1		05/13/25	pd051325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051325\
Data File : PD088523.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2025 16:35
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 22:43:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.557	2.882	36582668	255.6E6	18.315	17.480
28)	SA Decachlor...	9.080	8.076	63857572	320.6E6	19.303	17.348
	Target Compounds						

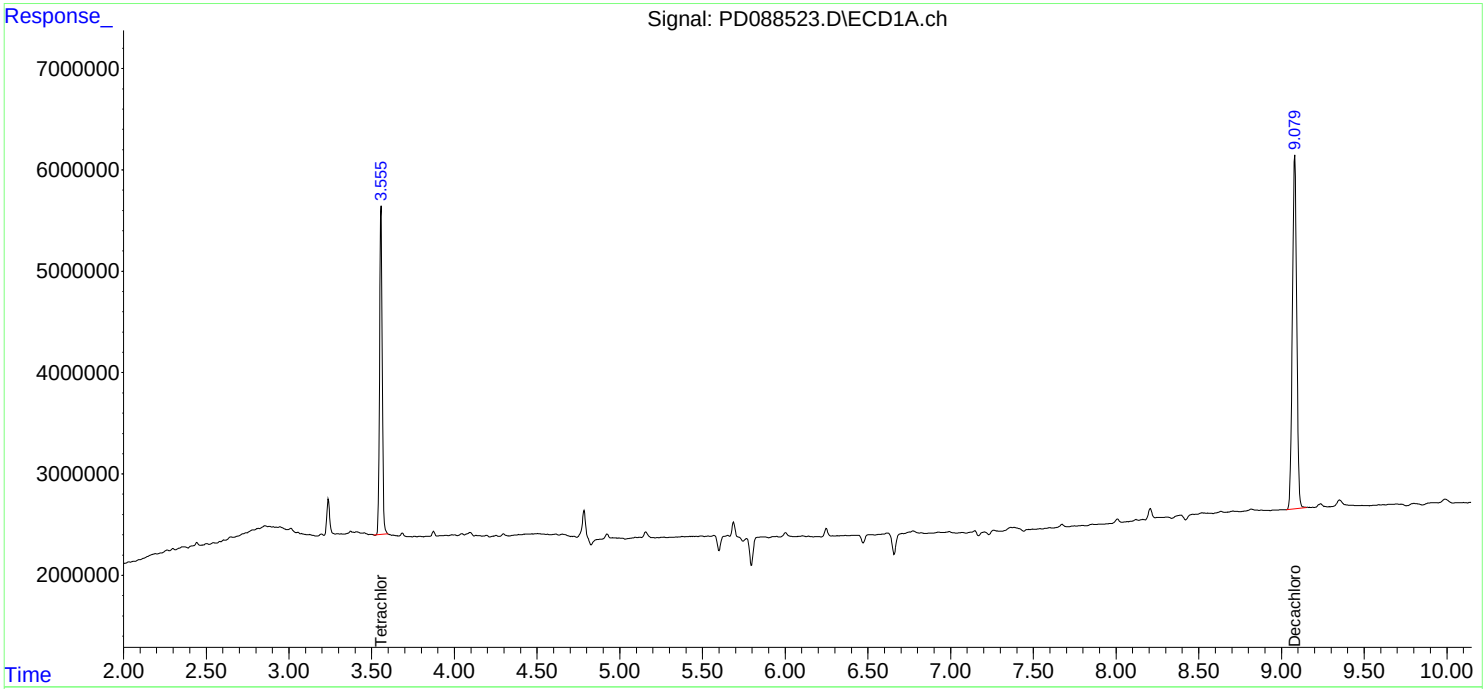
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

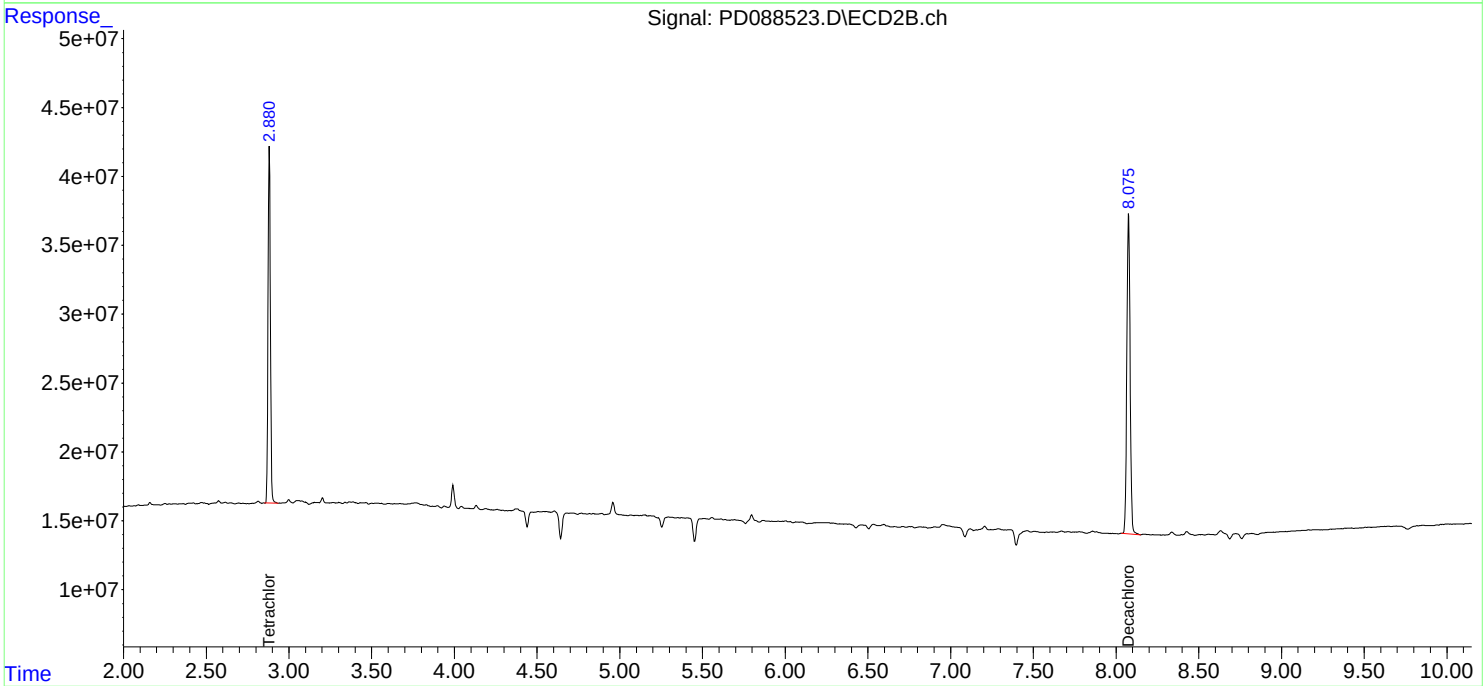
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051325\
Data File : PD088523.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2025 16:35
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

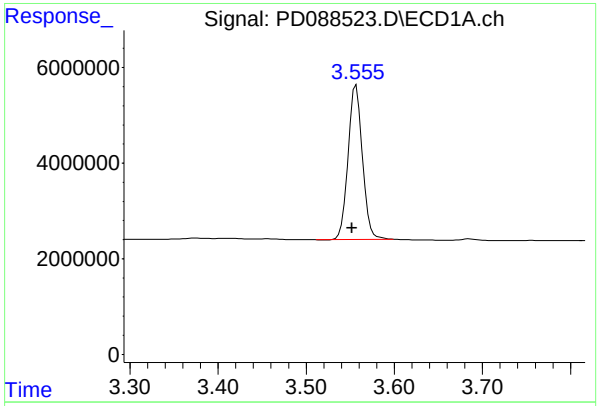
Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 22:43:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



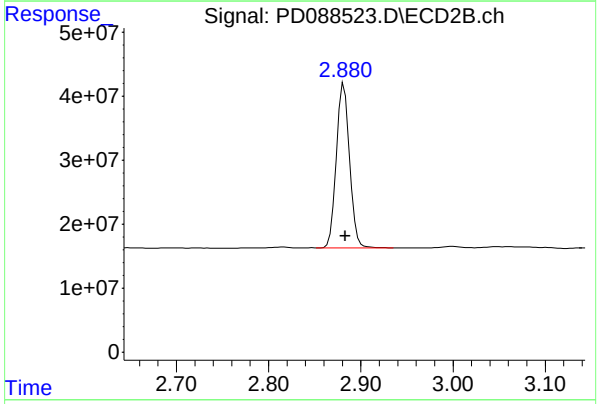




#1 Tetrachloro-m-xylene

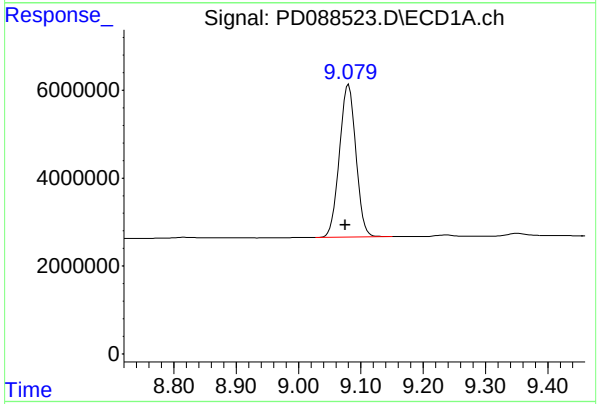
R.T.: 3.557 min
Delta R.T.: 0.005 min
Response: 36582668
Conc: 18.32 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



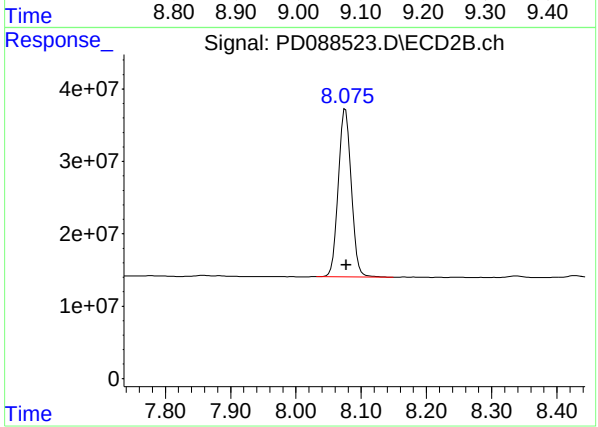
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: -0.001 min
Response: 255584809
Conc: 17.48 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.080 min
Delta R.T.: 0.005 min
Response: 63857572
Conc: 19.30 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 320591963
Conc: 17.35 ng/ml

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Fax : 908 789 8922

Report of Analysis

Client:	Nobis Group	Date Collected:	05/13/25
Project:	Raymark Superfund Site	Date Received:	05/13/25
Client Sample ID:	PIBLK-PD088535.D	SDG No.:	Q1984
Lab Sample ID:	I.BLK-PD088535.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088535.D	1		05/13/25	pd051325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
319-84-6	alpha-BHC	0.000010	U	0.0000039	0.000010	0.000050	mg/L
319-85-7	beta-BHC	0.000010	U	0.0000049	0.000010	0.000050	mg/L
319-86-8	delta-BHC	0.000025	U	0.000011	0.000025	0.000050	mg/L
58-89-9	gamma-BHC (Lindane)	0.000010	U	0.0000037	0.000010	0.000050	mg/L
76-44-8	Heptachlor	0.000010	U	0.0000027	0.000010	0.000050	mg/L
309-00-2	Aldrin	0.000010	U	0.0000036	0.000010	0.000050	mg/L
1024-57-3	Heptachlor epoxide	0.000025	U	0.0000096	0.000025	0.000050	mg/L
959-98-8	Endosulfan I	0.000010	U	0.0000031	0.000010	0.000050	mg/L
60-57-1	Dieldrin	0.000010	U	0.0000036	0.000010	0.000050	mg/L
72-55-9	4,4-DDE	0.000010	U	0.0000037	0.000010	0.000050	mg/L
72-20-8	Endrin	0.000010	U	0.0000032	0.000010	0.000050	mg/L
33213-65-9	Endosulfan II	0.000025	U	0.0000079	0.000025	0.000050	mg/L
72-54-8	4,4-DDD	0.000025	U	0.0000071	0.000025	0.000050	mg/L
1031-07-8	Endosulfan Sulfate	0.000010	U	0.0000037	0.000010	0.000050	mg/L
50-29-3	4,4-DDT	0.000010	U	0.0000035	0.000010	0.000050	mg/L
72-43-5	Methoxychlor	0.000025	U	0.000011	0.000025	0.000050	mg/L
53494-70-5	Endrin ketone	0.000025	U	0.0000093	0.000025	0.000050	mg/L
7421-93-4	Endrin aldehyde	0.000025	U	0.000011	0.000025	0.000050	mg/L
5103-71-9	alpha-Chlordane	0.000010	U	0.0000035	0.000010	0.000050	mg/L
5103-74-2	gamma-Chlordane	0.000010	U	0.0000039	0.000010	0.000050	mg/L
8001-35-2	Toxaphene	0.00050	U	0.00017	0.00050	0.0010	mg/L
SURROGATES							
2051-24-3	Decachlorobiphenyl	18.0		30 - 135		90%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.4		44 - 124		87%	SPK: 20

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Fax : 908 789 8922

Report of Analysis

Client:	Nobis Group	Date Collected:	05/13/25
Project:	Raymark Superfund Site	Date Received:	05/13/25
Client Sample ID:	PIBLK-PD088535.D	SDG No.:	Q1984
Lab Sample ID:	I.BLK-PD088535.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088535.D	1		05/13/25	pd051325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051325\
Data File : PD088535.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2025 19:18
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 22:47:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.551	2.882	34831627	239.4E6	17.439	16.372
28)	SA Decachlor...	9.074	8.074	59657858	274.2E6	18.034	14.838
	Target Compounds						

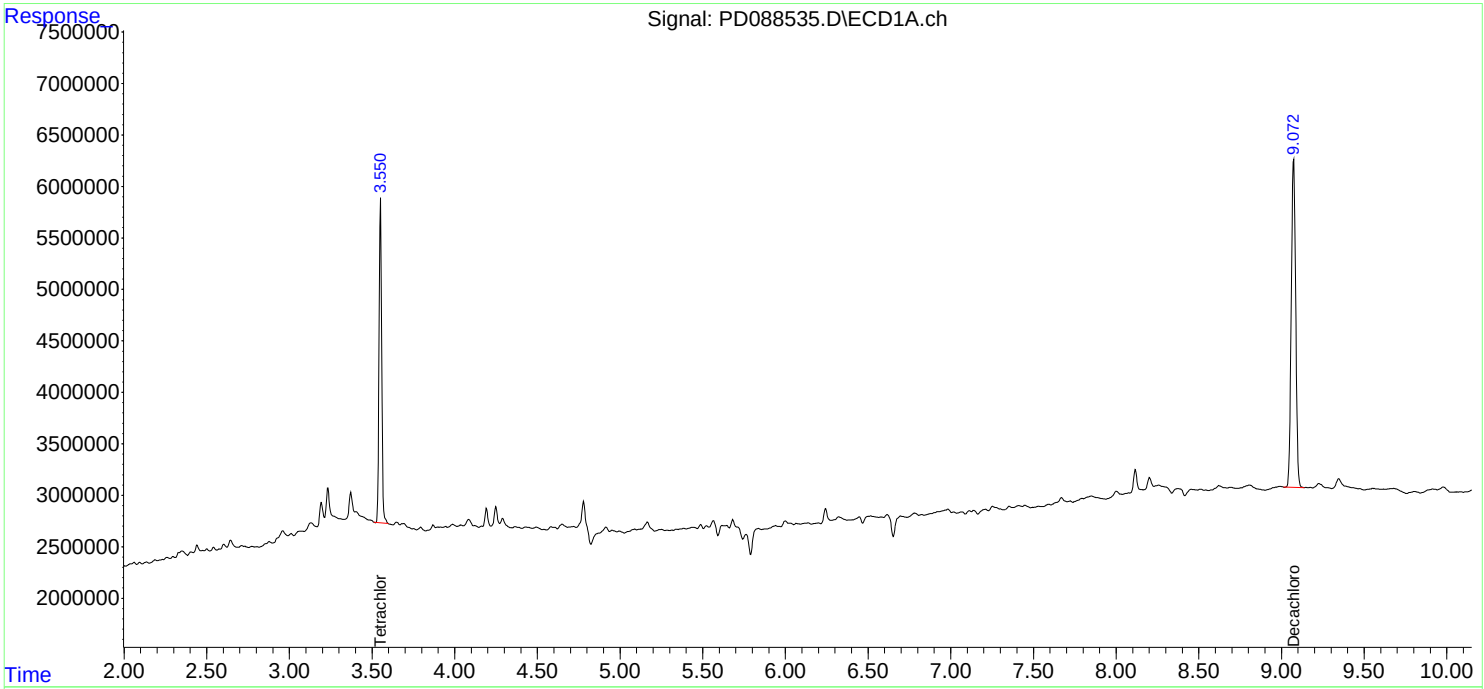
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

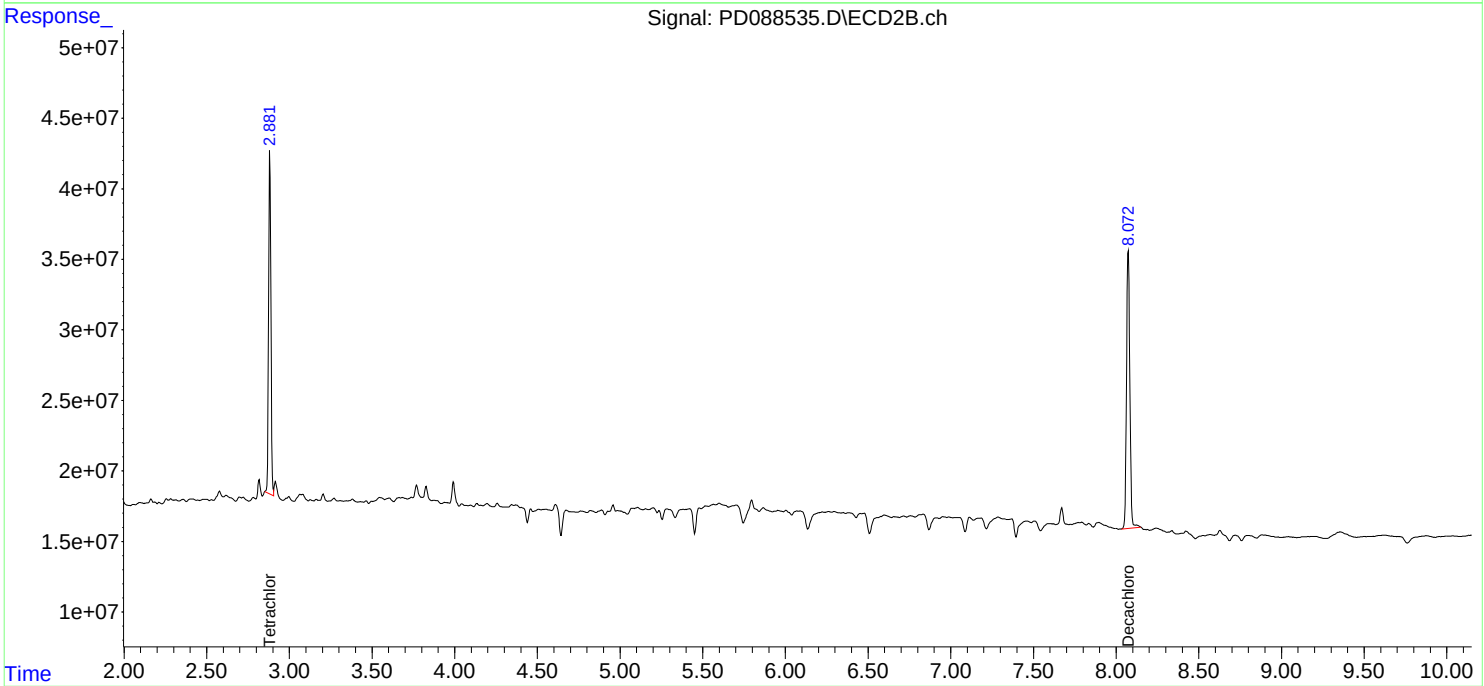
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051325\
Data File : PD088535.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2025 19:18
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

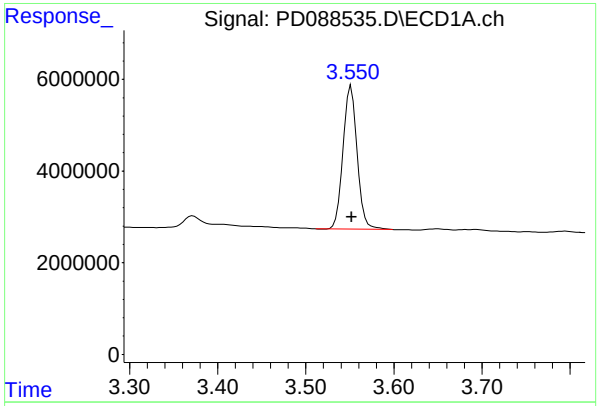
Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 22:47:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



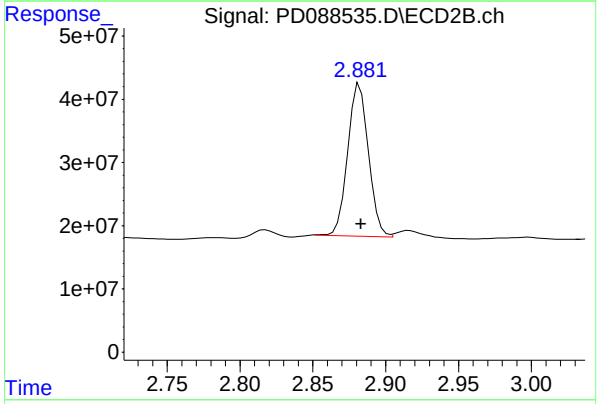




#1 Tetrachloro-m-xylene

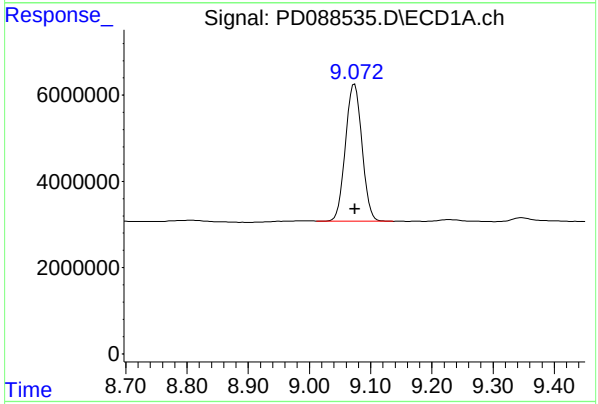
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 34831627
Conc: 17.44 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



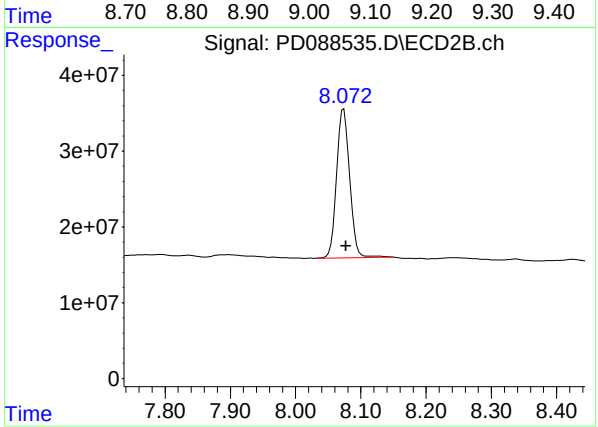
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 239390536
Conc: 16.37 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.074 min
Delta R.T.: -0.001 min
Response: 59657858
Conc: 18.03 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.074 min
Delta R.T.: -0.003 min
Response: 274193308
Conc: 14.84 ng/ml

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Fax : 908 789 8922

Report of Analysis

Client:	Nobis Group	Date Collected:	05/15/25
Project:	Raymark Superfund Site	Date Received:	05/15/25
Client Sample ID:	PIBLK-PD088551.D	SDG No.:	Q1984
Lab Sample ID:	I.BLK-PD088551.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088551.D	1		05/15/25	pd051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
319-84-6	alpha-BHC	0.000010	U	0.0000039	0.000010	0.000050	mg/L
319-85-7	beta-BHC	0.000010	U	0.0000049	0.000010	0.000050	mg/L
319-86-8	delta-BHC	0.000025	U	0.000011	0.000025	0.000050	mg/L
58-89-9	gamma-BHC (Lindane)	0.000010	U	0.0000037	0.000010	0.000050	mg/L
76-44-8	Heptachlor	0.000010	U	0.0000027	0.000010	0.000050	mg/L
309-00-2	Aldrin	0.000010	U	0.0000036	0.000010	0.000050	mg/L
1024-57-3	Heptachlor epoxide	0.000025	U	0.0000096	0.000025	0.000050	mg/L
959-98-8	Endosulfan I	0.000010	U	0.0000031	0.000010	0.000050	mg/L
60-57-1	Dieldrin	0.000010	U	0.0000036	0.000010	0.000050	mg/L
72-55-9	4,4-DDE	0.000010	U	0.0000037	0.000010	0.000050	mg/L
72-20-8	Endrin	0.000010	U	0.0000032	0.000010	0.000050	mg/L
33213-65-9	Endosulfan II	0.000025	U	0.0000079	0.000025	0.000050	mg/L
72-54-8	4,4-DDD	0.000025	U	0.0000071	0.000025	0.000050	mg/L
1031-07-8	Endosulfan Sulfate	0.000010	U	0.0000037	0.000010	0.000050	mg/L
50-29-3	4,4-DDT	0.000010	U	0.0000035	0.000010	0.000050	mg/L
72-43-5	Methoxychlor	0.000025	U	0.000011	0.000025	0.000050	mg/L
53494-70-5	Endrin ketone	0.000025	U	0.0000093	0.000025	0.000050	mg/L
7421-93-4	Endrin aldehyde	0.000025	U	0.000011	0.000025	0.000050	mg/L
5103-71-9	alpha-Chlordane	0.000010	U	0.0000035	0.000010	0.000050	mg/L
5103-74-2	gamma-Chlordane	0.000010	U	0.0000039	0.000010	0.000050	mg/L
8001-35-2	Toxaphene	0.00050	U	0.00017	0.00050	0.0010	mg/L
SURROGATES							
2051-24-3	Decachlorobiphenyl	20.9		30 - 135		104%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.3		44 - 124		101%	SPK: 20

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Fax : 908 789 8922

Report of Analysis

Client:	Nobis Group	Date Collected:	05/15/25
Project:	Raymark Superfund Site	Date Received:	05/15/25
Client Sample ID:	PIBLK-PD088551.D	SDG No.:	Q1984
Lab Sample ID:	I.BLK-PD088551.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088551.D	1		05/15/25	pd051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088551.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 08:47
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:16:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.552	2.882	40464877	278.8E6	20.259	19.069
28)	SA Decachlor...	9.077	8.075	69005427	344.6E6	20.859	18.646
	Target Compounds						

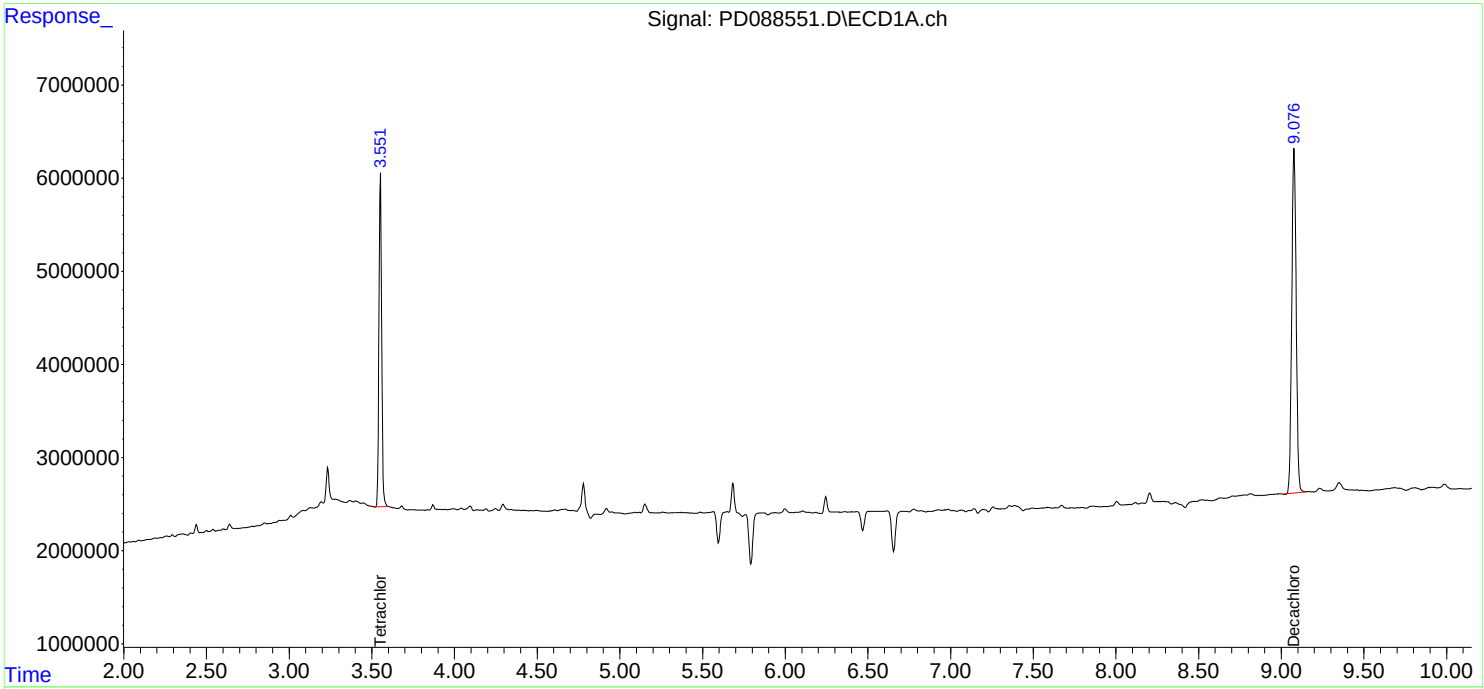
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

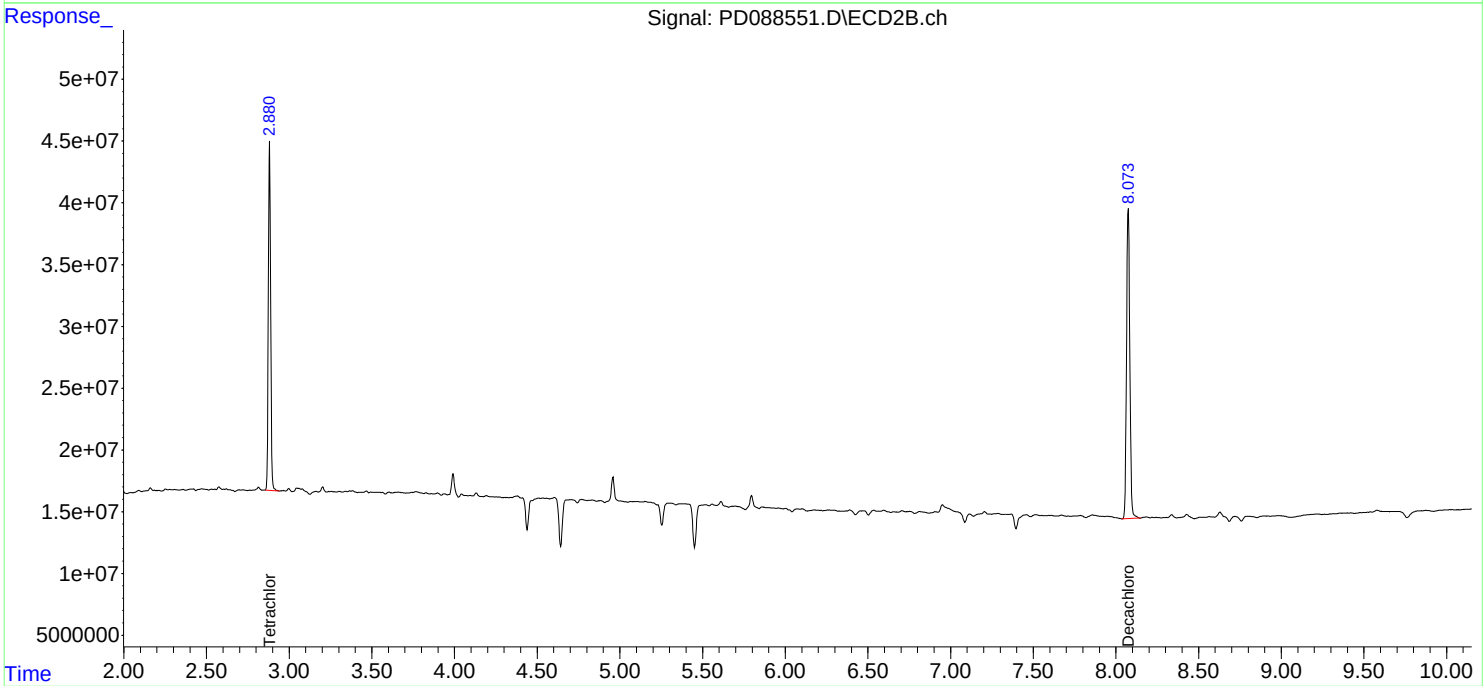
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088551.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 08:47
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

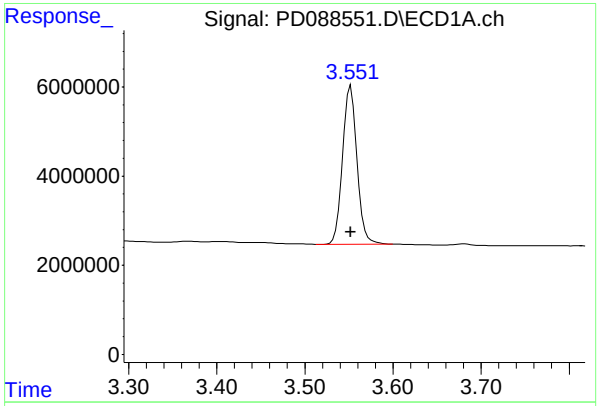
Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:16:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



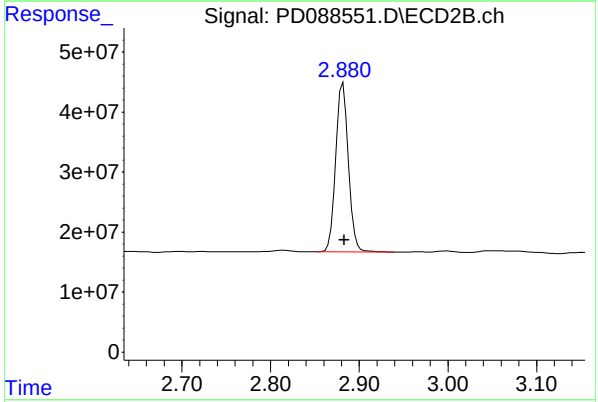




#1 Tetrachloro-m-xylene

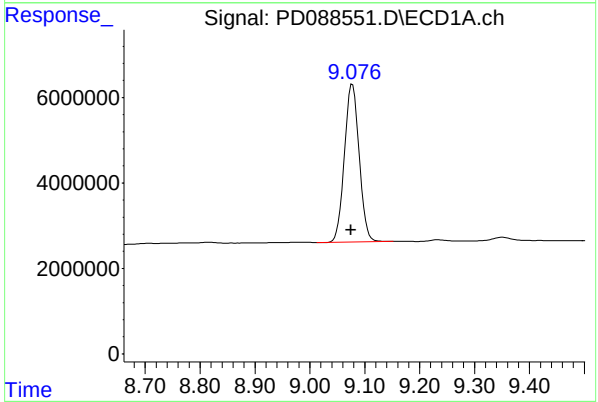
R.T.: 3.552 min
Delta R.T.: 0.000 min
Response: 40464877
Conc: 20.26 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



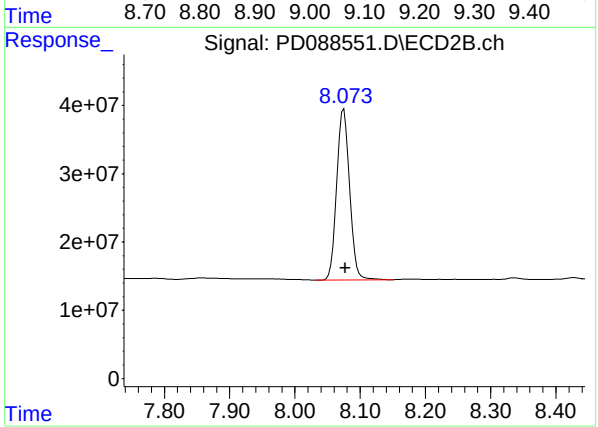
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: -0.001 min
Response: 278826093
Conc: 19.07 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.077 min
Delta R.T.: 0.003 min
Response: 69005427
Conc: 20.86 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.002 min
Response: 344561883
Conc: 18.65 ng/ml

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/15/25
Project:	Raymark Superfund Site	Date Received:	05/15/25
Client Sample ID:	PIBLK-PD088565.D	SDG No.:	Q1984
Lab Sample ID:	I.BLK-PD088565.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088565.D	1		05/15/25	pd051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
319-84-6	alpha-BHC	0.000010	U	0.0000039	0.000010	0.000050	mg/L
319-85-7	beta-BHC	0.000010	U	0.0000049	0.000010	0.000050	mg/L
319-86-8	delta-BHC	0.000025	U	0.000011	0.000025	0.000050	mg/L
58-89-9	gamma-BHC (Lindane)	0.000010	U	0.0000037	0.000010	0.000050	mg/L
76-44-8	Heptachlor	0.000010	U	0.0000027	0.000010	0.000050	mg/L
309-00-2	Aldrin	0.000010	U	0.0000036	0.000010	0.000050	mg/L
1024-57-3	Heptachlor epoxide	0.000025	U	0.0000096	0.000025	0.000050	mg/L
959-98-8	Endosulfan I	0.000010	U	0.0000031	0.000010	0.000050	mg/L
60-57-1	Dieldrin	0.000010	U	0.0000036	0.000010	0.000050	mg/L
72-55-9	4,4-DDE	0.000010	U	0.0000037	0.000010	0.000050	mg/L
72-20-8	Endrin	0.000010	U	0.0000032	0.000010	0.000050	mg/L
33213-65-9	Endosulfan II	0.000025	U	0.0000079	0.000025	0.000050	mg/L
72-54-8	4,4-DDD	0.000025	U	0.0000071	0.000025	0.000050	mg/L
1031-07-8	Endosulfan Sulfate	0.000010	U	0.0000037	0.000010	0.000050	mg/L
50-29-3	4,4-DDT	0.000010	U	0.0000035	0.000010	0.000050	mg/L
72-43-5	Methoxychlor	0.000025	U	0.000011	0.000025	0.000050	mg/L
53494-70-5	Endrin ketone	0.000025	U	0.0000093	0.000025	0.000050	mg/L
7421-93-4	Endrin aldehyde	0.000025	U	0.000011	0.000025	0.000050	mg/L
5103-71-9	alpha-Chlordane	0.000010	U	0.0000035	0.000010	0.000050	mg/L
5103-74-2	gamma-Chlordane	0.000010	U	0.0000039	0.000010	0.000050	mg/L
8001-35-2	Toxaphene	0.00050	U	0.00017	0.00050	0.0010	mg/L
SURROGATES							
2051-24-3	Decachlorobiphenyl	15.5		30 - 135		77%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.6		44 - 124		98%	SPK: 20

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/15/25
Project:	Raymark Superfund Site	Date Received:	05/15/25
Client Sample ID:	PIBLK-PD088565.D	SDG No.:	Q1984
Lab Sample ID:	I.BLK-PD088565.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088565.D	1		05/15/25	pd051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_D\Data\PD051525\
Data File : PD088565.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 14:14
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
I.BLK

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:19:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.552	2.883	39244944	269.4E6	19.648	18.422
28)	SA Decachlor...	9.075	8.075	50336180	285.7E6	15.216m	15.461
	Target Compounds						

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

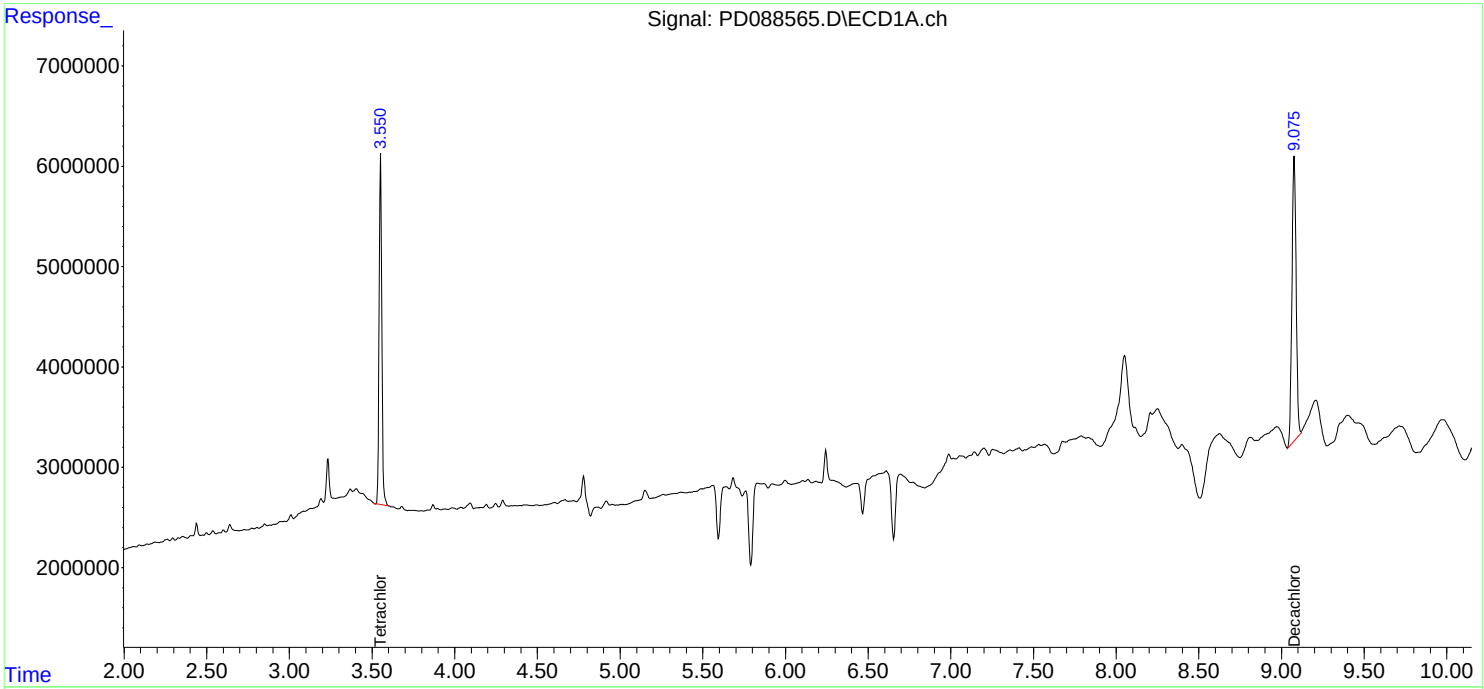
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088565.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 14:14
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

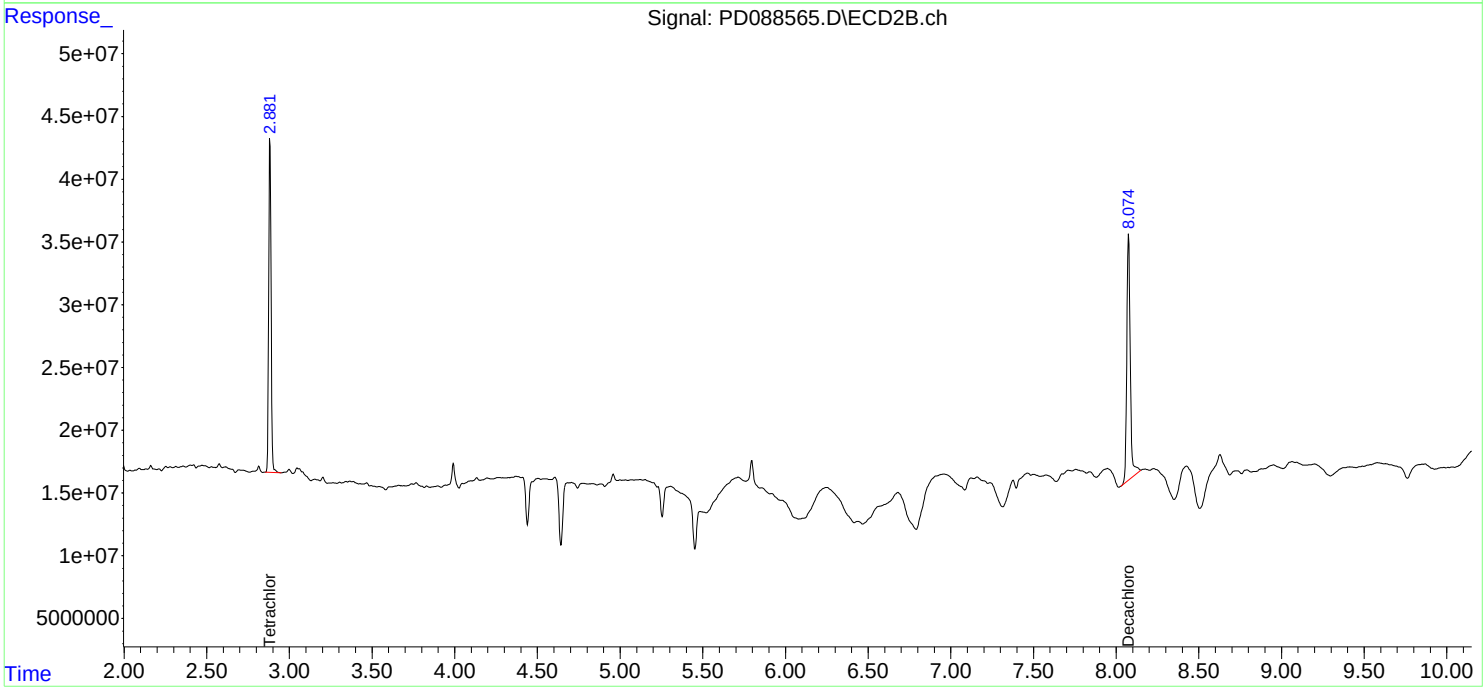
Instrument :
ECD_D
ClientSampleId :
I.BLK

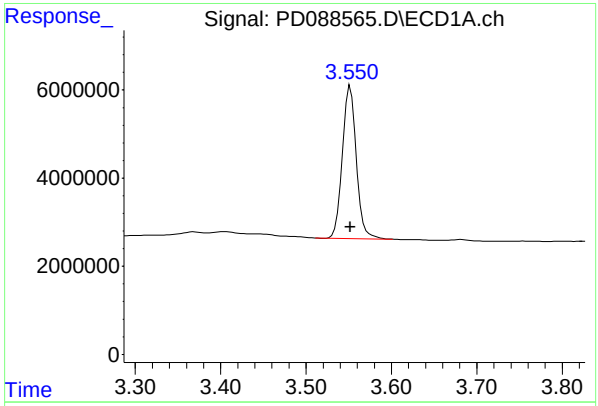
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:19:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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







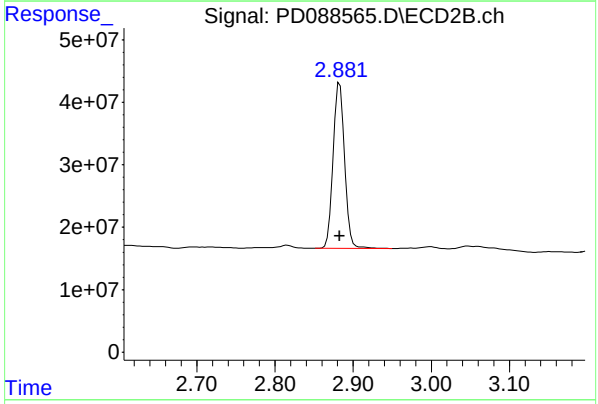
#1 Tetrachloro-m-xylene

R.T.: 3.552 min
Delta R.T.: 0.000 mi
Response: 39244944
Conc: 19.65 ng/m

Instrument :
ECD_D
ClientSampleId :
I.BLK

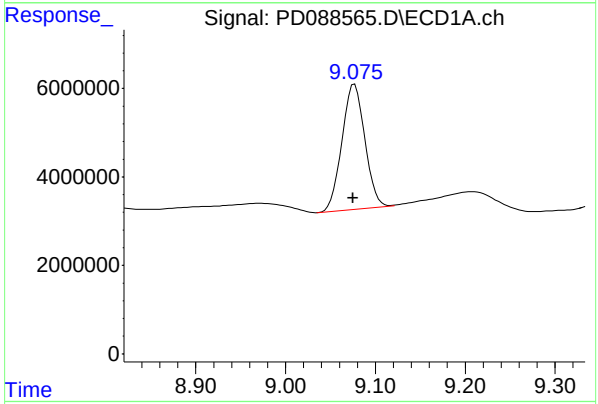
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



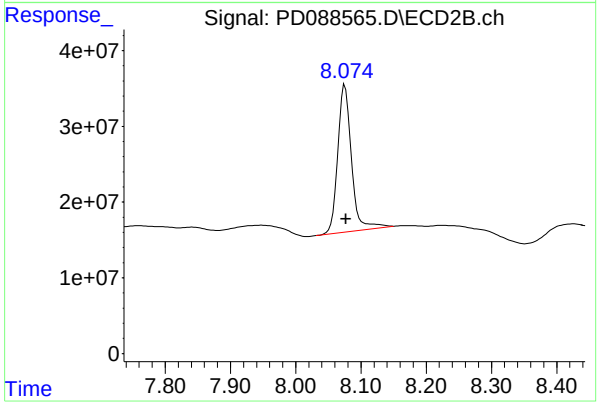
#1 Tetrachloro-m-xylene

R.T.: 2.883 min
Delta R.T.: 0.000 min
Response: 269360733
Conc: 18.42 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.075 min
Delta R.T.: 0.000 min
Response: 50336180
Conc: 15.22 ng/ml m



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.001 min
Response: 285708313
Conc: 15.46 ng/ml

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/15/25
Project:	Raymark Superfund Site	Date Received:	05/15/25
Client Sample ID:	PIBLK-PD088572.D	SDG No.:	Q1984
Lab Sample ID:	I.BLK-PD088572.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088572.D	1		05/15/25	pd051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
319-84-6	alpha-BHC	0.000010	U	0.0000039	0.000010	0.000050	mg/L
319-85-7	beta-BHC	0.000010	U	0.0000049	0.000010	0.000050	mg/L
319-86-8	delta-BHC	0.000025	U	0.000011	0.000025	0.000050	mg/L
58-89-9	gamma-BHC (Lindane)	0.000010	U	0.0000037	0.000010	0.000050	mg/L
76-44-8	Heptachlor	0.000010	U	0.0000027	0.000010	0.000050	mg/L
309-00-2	Aldrin	0.000010	U	0.0000036	0.000010	0.000050	mg/L
1024-57-3	Heptachlor epoxide	0.000025	U	0.0000096	0.000025	0.000050	mg/L
959-98-8	Endosulfan I	0.000010	U	0.0000031	0.000010	0.000050	mg/L
60-57-1	Dieldrin	0.000010	U	0.0000036	0.000010	0.000050	mg/L
72-55-9	4,4-DDE	0.000010	U	0.0000037	0.000010	0.000050	mg/L
72-20-8	Endrin	0.000010	U	0.0000032	0.000010	0.000050	mg/L
33213-65-9	Endosulfan II	0.000025	U	0.0000079	0.000025	0.000050	mg/L
72-54-8	4,4-DDD	0.000025	U	0.0000071	0.000025	0.000050	mg/L
1031-07-8	Endosulfan Sulfate	0.000010	U	0.0000037	0.000010	0.000050	mg/L
50-29-3	4,4-DDT	0.000010	U	0.0000035	0.000010	0.000050	mg/L
72-43-5	Methoxychlor	0.000025	U	0.000011	0.000025	0.000050	mg/L
53494-70-5	Endrin ketone	0.000025	U	0.0000093	0.000025	0.000050	mg/L
7421-93-4	Endrin aldehyde	0.000025	U	0.000011	0.000025	0.000050	mg/L
5103-71-9	alpha-Chlordane	0.000010	U	0.0000035	0.000010	0.000050	mg/L
5103-74-2	gamma-Chlordane	0.000010	U	0.0000039	0.000010	0.000050	mg/L
8001-35-2	Toxaphene	0.00050	U	0.00017	0.00050	0.0010	mg/L
SURROGATES							
2051-24-3	Decachlorobiphenyl	17.0		30 - 135		85%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.2		44 - 124		101%	SPK: 20

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/15/25
Project:	Raymark Superfund Site	Date Received:	05/15/25
Client Sample ID:	PIBLK-PD088572.D	SDG No.:	Q1984
Lab Sample ID:	I.BLK-PD088572.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088572.D	1		05/15/25	pd051525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_D\Data\PD051525\
Data File : PD088572.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 18:49
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
I.BLK

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:21:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.552	2.883	40325884	278.9E6	20.189	19.077
28)	SA Decachlor...	9.076	8.076	56284896	295.9E6	17.014m	16.013
	Target Compounds						

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

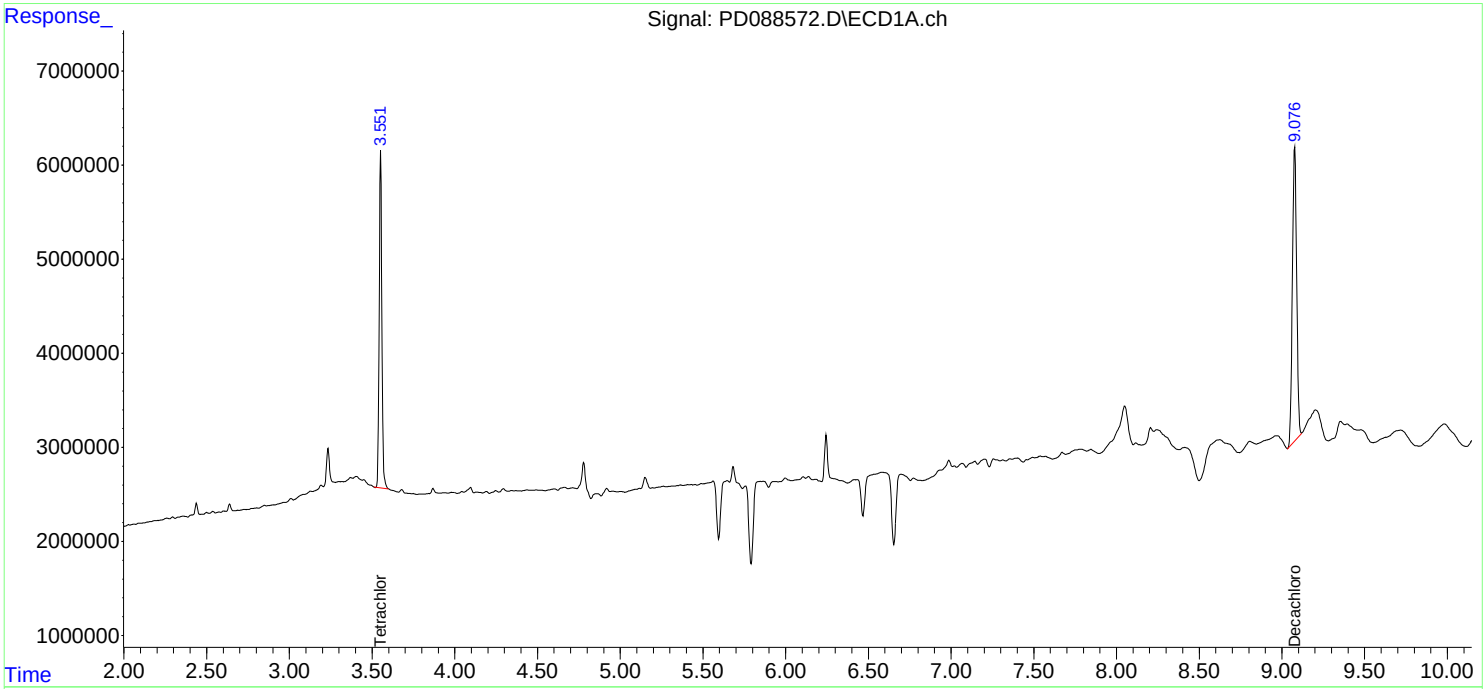
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088572.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 18:49
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

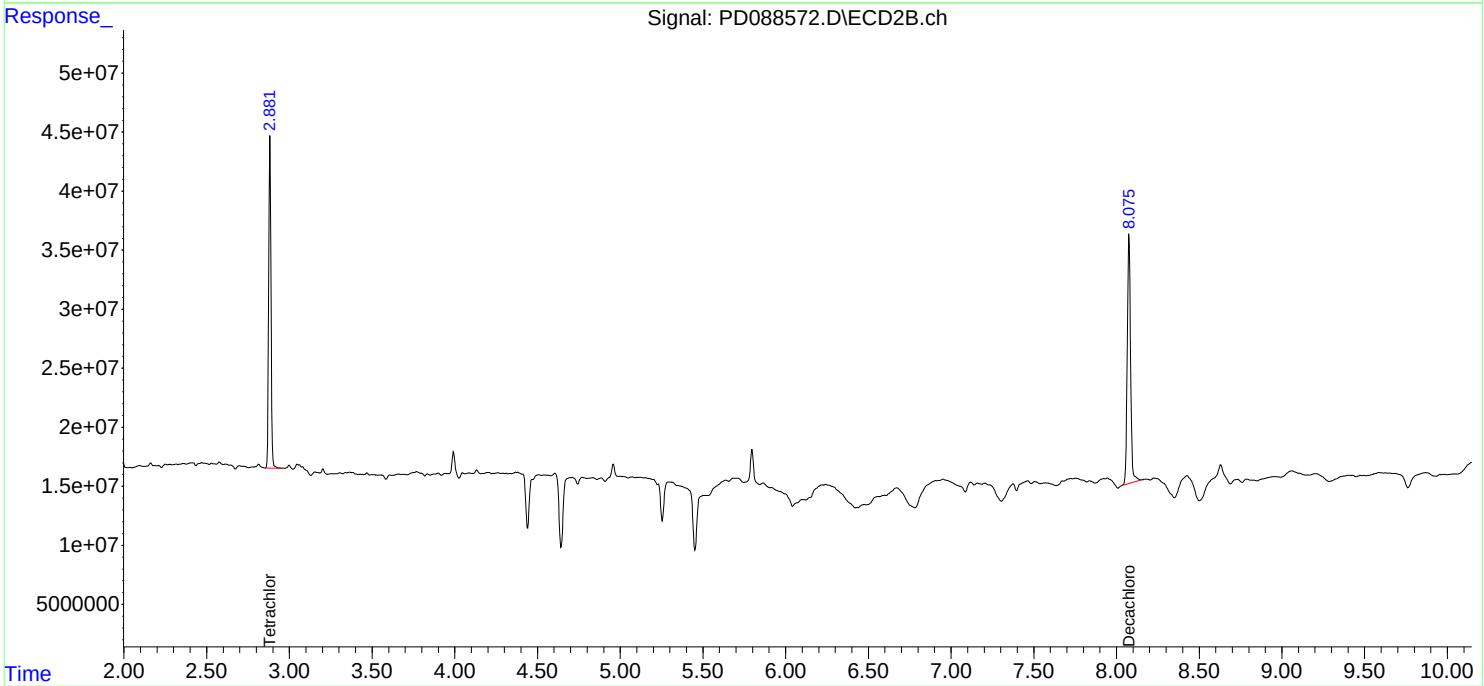
Instrument :
ECD_D
ClientSampleId :
I.BLK

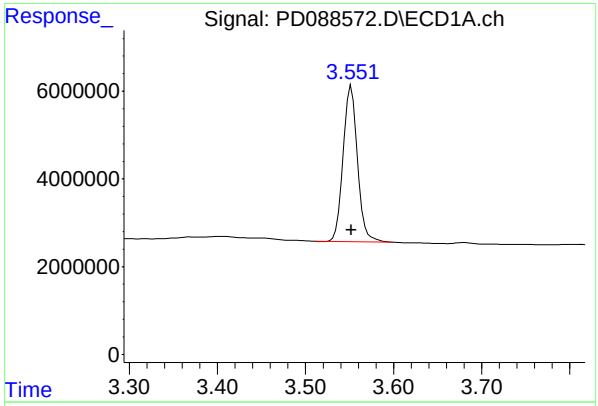
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:21:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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







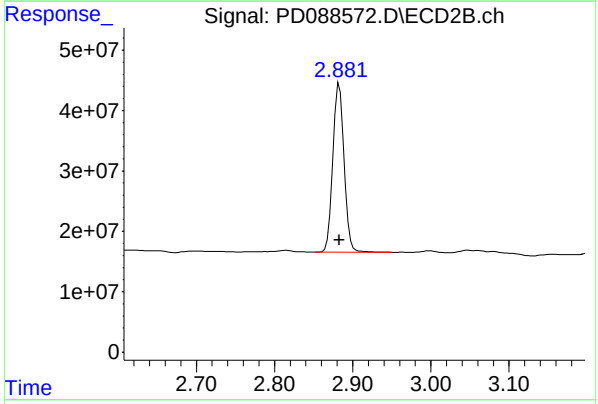
#1 Tetrachloro-m-xylene

R.T.: 3.552 min
Delta R.T.: 0.000 mi
Response: 40325884
Conc: 20.19 ng/m

Instrument :
ECD_D
ClientSampleId :
I.BLK

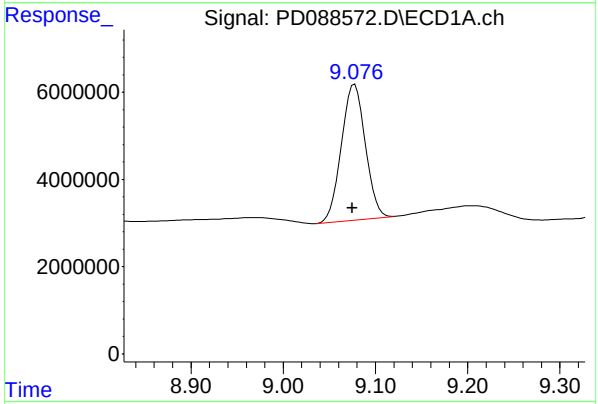
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



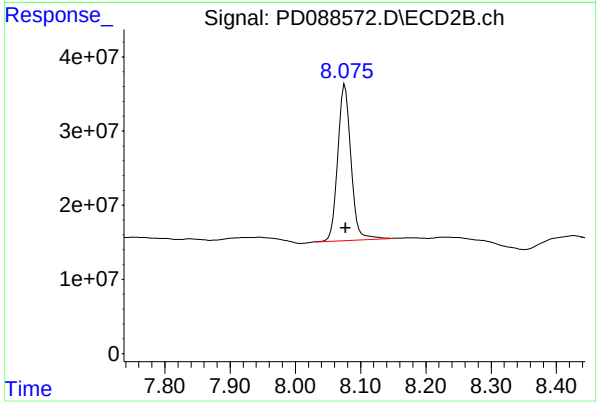
#1 Tetrachloro-m-xylene

R.T.: 2.883 min
Delta R.T.: 0.000 min
Response: 278930849
Conc: 19.08 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.076 min
Delta R.T.: 0.001 min
Response: 56284896
Conc: 17.01 ng/ml m



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 295919908
Conc: 16.01 ng/ml

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/19/25
Project:	Raymark Superfund Site	Date Received:	05/19/25
Client Sample ID:	PIBLK-PD088583.D	SDG No.:	Q1984
Lab Sample ID:	I.BLK-PD088583.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088583.D	1		05/19/25	PD051925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
319-84-6	alpha-BHC	0.000010	U	0.0000039	0.000010	0.000050	mg/L
319-85-7	beta-BHC	0.000010	U	0.0000049	0.000010	0.000050	mg/L
319-86-8	delta-BHC	0.000025	U	0.000011	0.000025	0.000050	mg/L
58-89-9	gamma-BHC (Lindane)	0.000010	U	0.0000037	0.000010	0.000050	mg/L
76-44-8	Heptachlor	0.000010	U	0.0000027	0.000010	0.000050	mg/L
309-00-2	Aldrin	0.000010	U	0.0000036	0.000010	0.000050	mg/L
1024-57-3	Heptachlor epoxide	0.000025	U	0.0000096	0.000025	0.000050	mg/L
959-98-8	Endosulfan I	0.000010	U	0.0000031	0.000010	0.000050	mg/L
60-57-1	Dieldrin	0.000010	U	0.0000036	0.000010	0.000050	mg/L
72-55-9	4,4-DDE	0.000010	U	0.0000037	0.000010	0.000050	mg/L
72-20-8	Endrin	0.000010	U	0.0000032	0.000010	0.000050	mg/L
33213-65-9	Endosulfan II	0.000025	U	0.0000079	0.000025	0.000050	mg/L
72-54-8	4,4-DDD	0.000025	U	0.0000071	0.000025	0.000050	mg/L
1031-07-8	Endosulfan Sulfate	0.000010	U	0.0000037	0.000010	0.000050	mg/L
50-29-3	4,4-DDT	0.000010	U	0.0000035	0.000010	0.000050	mg/L
72-43-5	Methoxychlor	0.000025	U	0.000011	0.000025	0.000050	mg/L
53494-70-5	Endrin ketone	0.000025	U	0.0000093	0.000025	0.000050	mg/L
7421-93-4	Endrin aldehyde	0.000025	U	0.000011	0.000025	0.000050	mg/L
5103-71-9	alpha-Chlordane	0.000010	U	0.0000035	0.000010	0.000050	mg/L
5103-74-2	gamma-Chlordane	0.000010	U	0.0000039	0.000010	0.000050	mg/L
8001-35-2	Toxaphene	0.00050	U	0.00017	0.00050	0.0010	mg/L
SURROGATES							
2051-24-3	Decachlorobiphenyl	18.4		30 - 135		92%	SPK: 20
877-09-8	Tetrachloro-m-xylene	16.9		44 - 124		84%	SPK: 20

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/19/25
Project:	Raymark Superfund Site	Date Received:	05/19/25
Client Sample ID:	PIBLK-PD088583.D	SDG No.:	Q1984
Lab Sample ID:	I.BLK-PD088583.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088583.D	1		05/19/25	PD051925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_D\Data\PD051925\
Data File : PD088583.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 10:50
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 13:59:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 13:57:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.550	2.882	35746806	254.9E6	16.521	16.853
28)	SA Decachlor...	9.076	8.075	63010697	329.2E6	18.412	18.033
	Target Compounds						

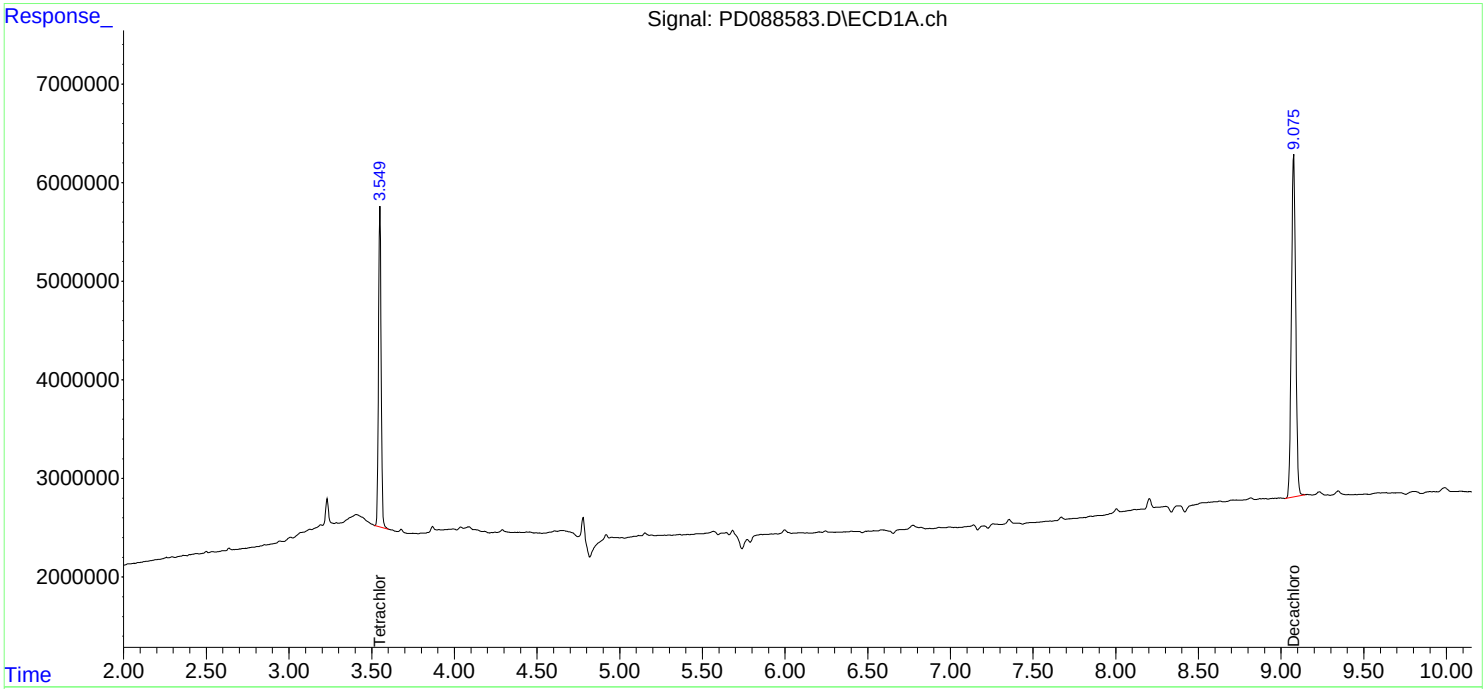
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

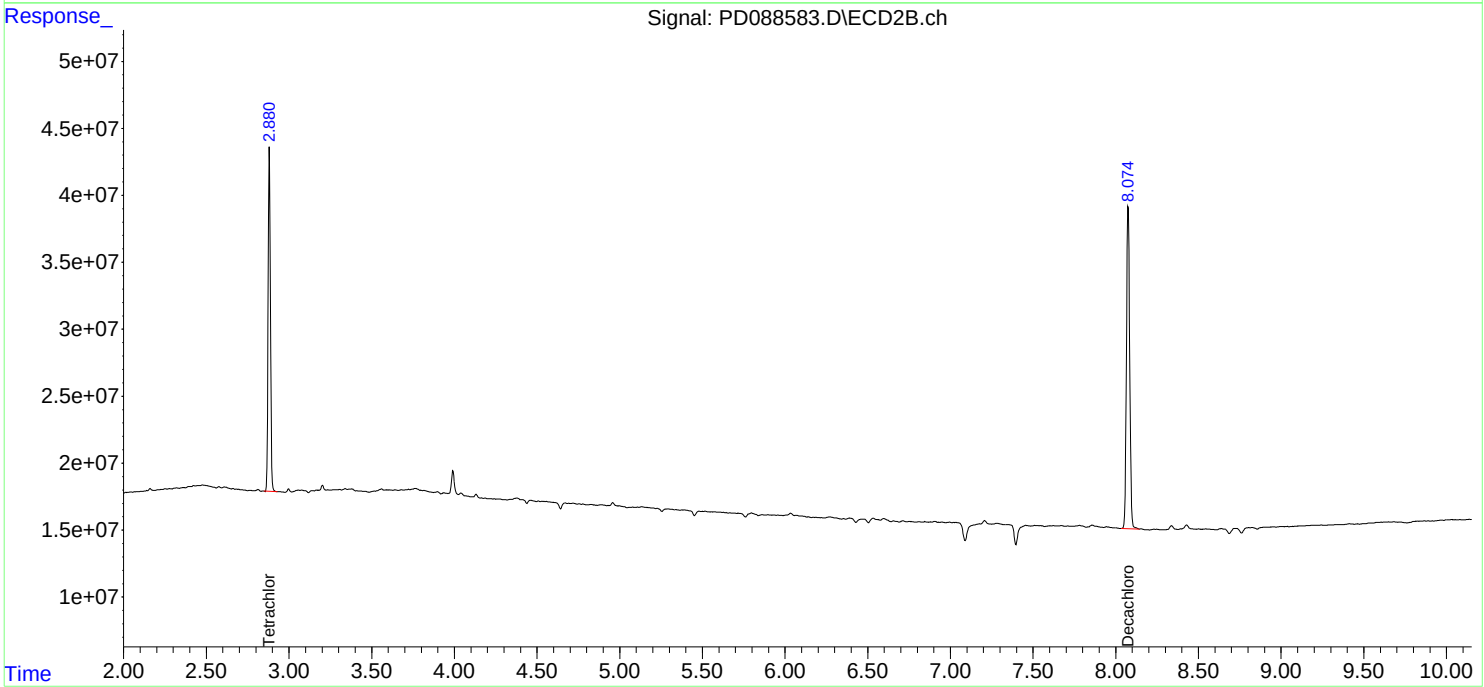
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088583.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 10:50
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

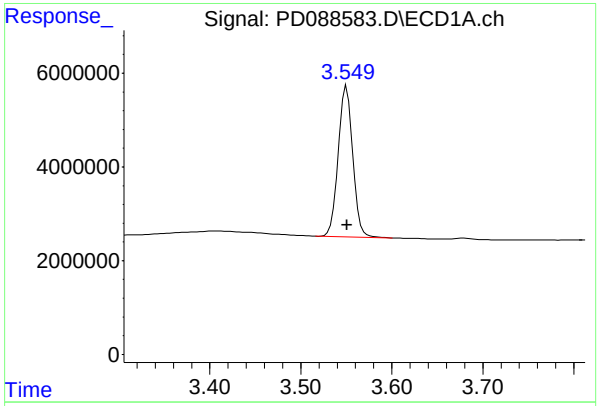
Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 13:59:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 13:57:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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



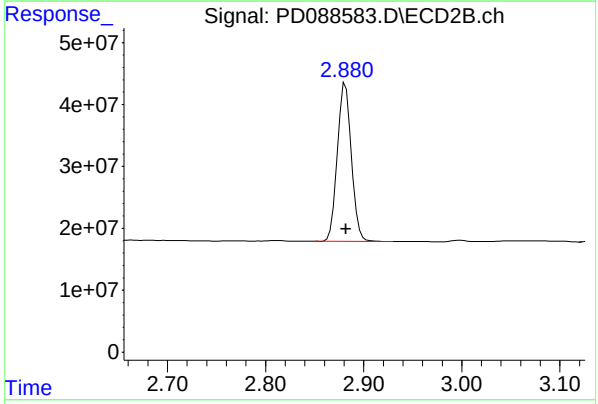




#1 Tetrachloro-m-xylene

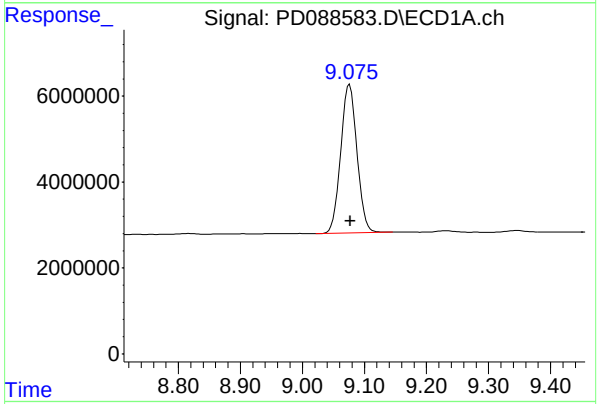
R.T.: 3.550 min
Delta R.T.: 0.000 min
Response: 35746806
Conc: 16.52 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



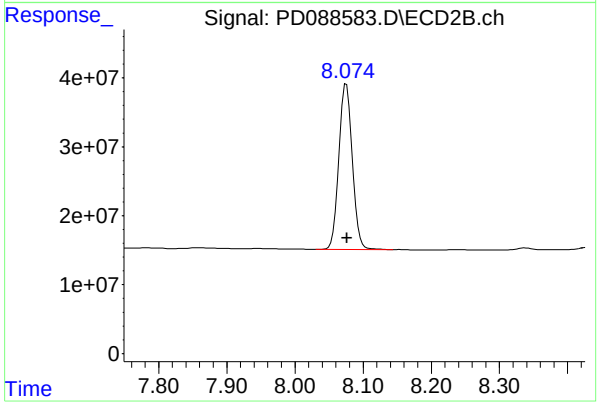
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 254929040
Conc: 16.85 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.076 min
Delta R.T.: -0.001 min
Response: 63010697
Conc: 18.41 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.001 min
Response: 329217471
Conc: 18.03 ng/ml

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Nobis Group	Date Collected:	05/19/25
Project:	Raymark Superfund Site	Date Received:	05/19/25
Client Sample ID:	PIBLK-PD088604.D	SDG No.:	Q1984
Lab Sample ID:	I.BLK-PD088604.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088604.D	1		05/19/25	PD051925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
319-84-6	alpha-BHC	0.000010	U	0.0000039	0.000010	0.000050	mg/L
319-85-7	beta-BHC	0.000010	U	0.0000049	0.000010	0.000050	mg/L
319-86-8	delta-BHC	0.000025	U	0.000011	0.000025	0.000050	mg/L
58-89-9	gamma-BHC (Lindane)	0.000010	U	0.0000037	0.000010	0.000050	mg/L
76-44-8	Heptachlor	0.000010	U	0.0000027	0.000010	0.000050	mg/L
309-00-2	Aldrin	0.000010	U	0.0000036	0.000010	0.000050	mg/L
1024-57-3	Heptachlor epoxide	0.000025	U	0.0000096	0.000025	0.000050	mg/L
959-98-8	Endosulfan I	0.000010	U	0.0000031	0.000010	0.000050	mg/L
60-57-1	Dieldrin	0.000010	U	0.0000036	0.000010	0.000050	mg/L
72-55-9	4,4-DDE	0.000010	U	0.0000037	0.000010	0.000050	mg/L
72-20-8	Endrin	0.000010	U	0.0000032	0.000010	0.000050	mg/L
33213-65-9	Endosulfan II	0.000025	U	0.0000079	0.000025	0.000050	mg/L
72-54-8	4,4-DDD	0.000025	U	0.0000071	0.000025	0.000050	mg/L
1031-07-8	Endosulfan Sulfate	0.000010	U	0.0000037	0.000010	0.000050	mg/L
50-29-3	4,4-DDT	0.000010	U	0.0000035	0.000010	0.000050	mg/L
72-43-5	Methoxychlor	0.000025	U	0.000011	0.000025	0.000050	mg/L
53494-70-5	Endrin ketone	0.000025	U	0.0000093	0.000025	0.000050	mg/L
7421-93-4	Endrin aldehyde	0.000025	U	0.000011	0.000025	0.000050	mg/L
5103-71-9	alpha-Chlordane	0.000010	U	0.0000035	0.000010	0.000050	mg/L
5103-74-2	gamma-Chlordane	0.000010	U	0.0000039	0.000010	0.000050	mg/L
8001-35-2	Toxaphene	0.00050	U	0.00017	0.00050	0.0010	mg/L
SURROGATES							
2051-24-3	Decachlorobiphenyl	19.6		30 - 135		98%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.9		44 - 124		89%	SPK: 20

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/19/25
Project:	Raymark Superfund Site	Date Received:	05/19/25
Client Sample ID:	PIBLK-PD088604.D	SDG No.:	Q1984
Lab Sample ID:	I.BLK-PD088604.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088604.D	1		05/19/25	PD051925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088604.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 15:35
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:38:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.551	2.882	36905182	270.0E6	17.056	17.847
28)	SA Decachlor...	9.078	8.077	66191426	358.6E6	19.341	19.642
	Target Compounds						

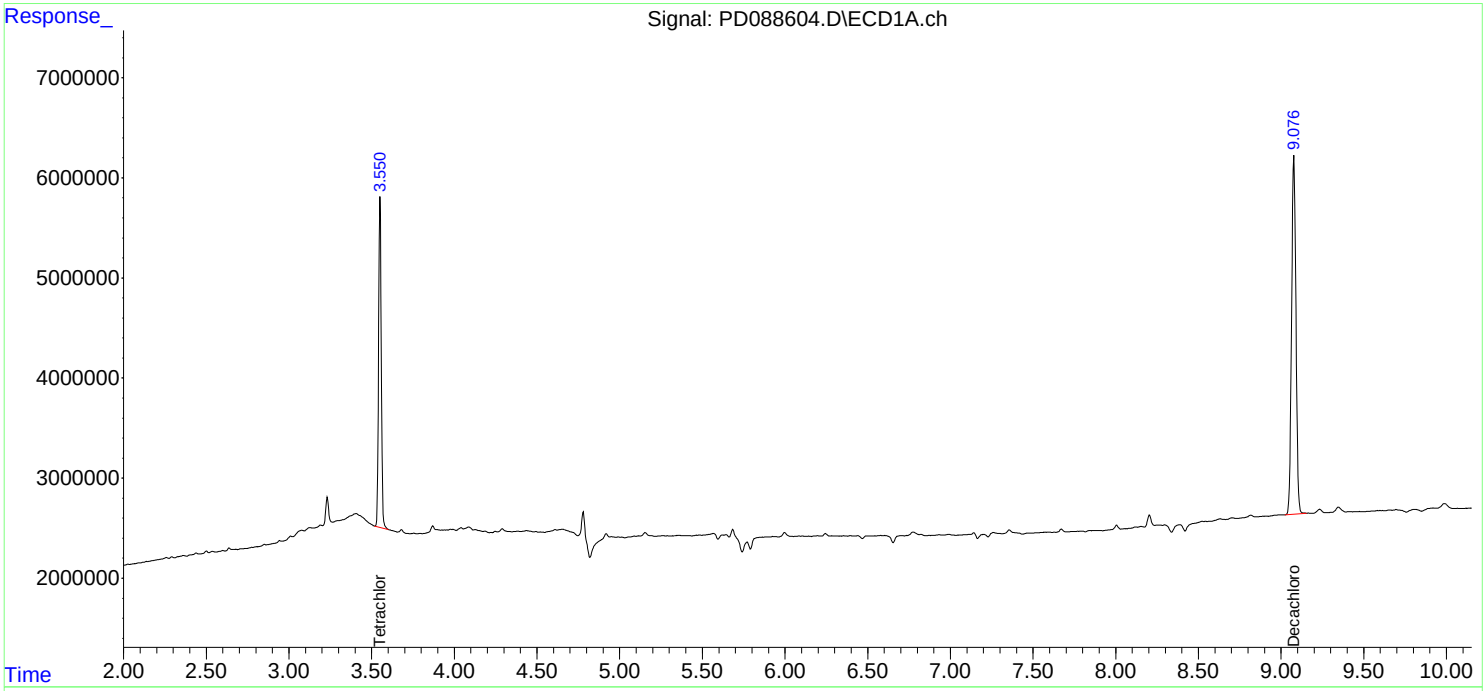
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

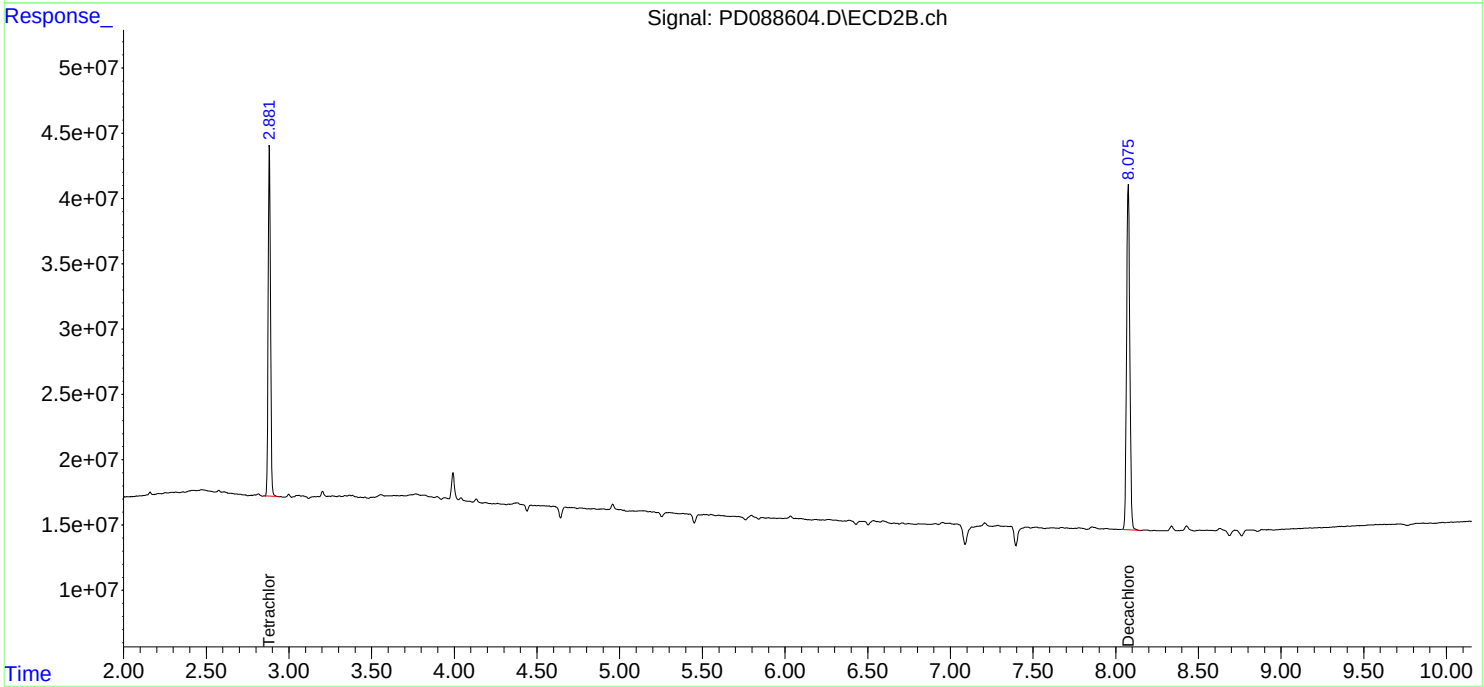
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088604.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 15:35
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

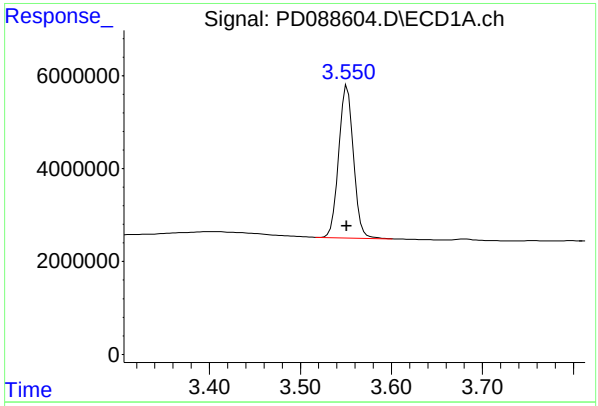
Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:38:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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



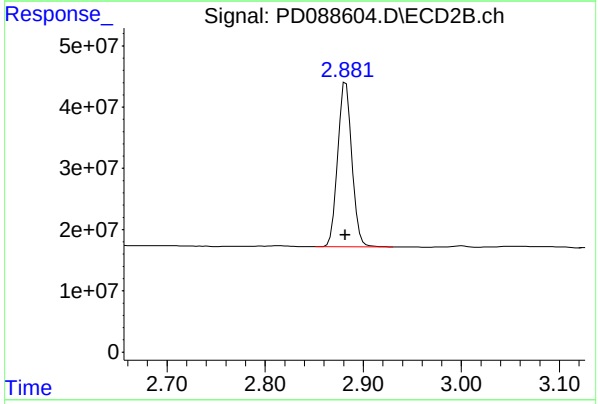




#1 Tetrachloro-m-xylene

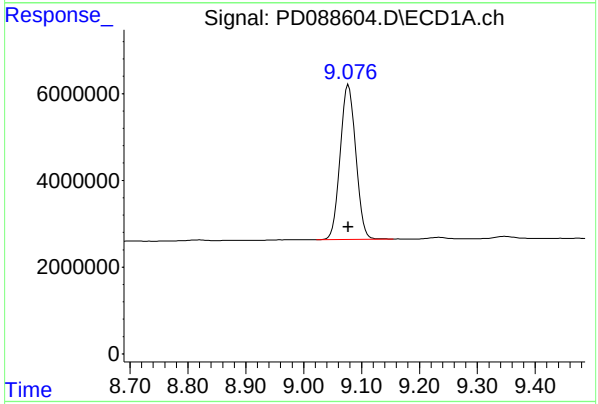
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 36905182
Conc: 17.06 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



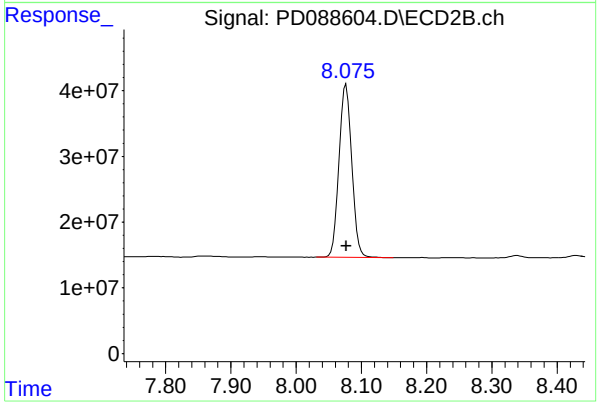
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 269965602
Conc: 17.85 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.078 min
Delta R.T.: 0.000 min
Response: 66191426
Conc: 19.34 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.077 min
Delta R.T.: 0.000 min
Response: 358586444
Conc: 19.64 ng/ml

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/19/25
Project:	Raymark Superfund Site	Date Received:	05/19/25
Client Sample ID:	PIBLK-PD088613.D	SDG No.:	Q1984
Lab Sample ID:	I.BLK-PD088613.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088613.D	1		05/19/25	PD051925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
319-84-6	alpha-BHC	0.000010	U	0.0000039	0.000010	0.000050	mg/L
319-85-7	beta-BHC	0.000010	U	0.0000049	0.000010	0.000050	mg/L
319-86-8	delta-BHC	0.000025	U	0.000011	0.000025	0.000050	mg/L
58-89-9	gamma-BHC (Lindane)	0.000010	U	0.0000037	0.000010	0.000050	mg/L
76-44-8	Heptachlor	0.000010	U	0.0000027	0.000010	0.000050	mg/L
309-00-2	Aldrin	0.000010	U	0.0000036	0.000010	0.000050	mg/L
1024-57-3	Heptachlor epoxide	0.000025	U	0.0000096	0.000025	0.000050	mg/L
959-98-8	Endosulfan I	0.000010	U	0.0000031	0.000010	0.000050	mg/L
60-57-1	Dieldrin	0.000010	U	0.0000036	0.000010	0.000050	mg/L
72-55-9	4,4-DDE	0.000010	U	0.0000037	0.000010	0.000050	mg/L
72-20-8	Endrin	0.000010	U	0.0000032	0.000010	0.000050	mg/L
33213-65-9	Endosulfan II	0.000025	U	0.0000079	0.000025	0.000050	mg/L
72-54-8	4,4-DDD	0.000025	U	0.0000071	0.000025	0.000050	mg/L
1031-07-8	Endosulfan Sulfate	0.000010	U	0.0000037	0.000010	0.000050	mg/L
50-29-3	4,4-DDT	0.000010	U	0.0000035	0.000010	0.000050	mg/L
72-43-5	Methoxychlor	0.000025	U	0.000011	0.000025	0.000050	mg/L
53494-70-5	Endrin ketone	0.000025	U	0.0000093	0.000025	0.000050	mg/L
7421-93-4	Endrin aldehyde	0.000025	U	0.000011	0.000025	0.000050	mg/L
5103-71-9	alpha-Chlordane	0.000010	U	0.0000035	0.000010	0.000050	mg/L
5103-74-2	gamma-Chlordane	0.000010	U	0.0000039	0.000010	0.000050	mg/L
8001-35-2	Toxaphene	0.00050	U	0.00017	0.00050	0.0010	mg/L
SURROGATES							
2051-24-3	Decachlorobiphenyl	15.6		30 - 135		78%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.1		44 - 124		91%	SPK: 20

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Report of Analysis

Client:	Nobis Group	Date Collected:	05/19/25
Project:	Raymark Superfund Site	Date Received:	05/19/25
Client Sample ID:	PIBLK-PD088613.D	SDG No.:	Q1984
Lab Sample ID:	I.BLK-PD088613.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088613.D	1		05/19/25	PD051925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_D\Data\PD051925\
Data File : PD088613.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 17:45
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
I.BLK

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:39:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.551	2.882	37470058	274.4E6	17.317	18.139
28)	SA Decachlor...	9.076	8.076	51411928	284.4E6	15.022m	15.578
	Target Compounds						

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

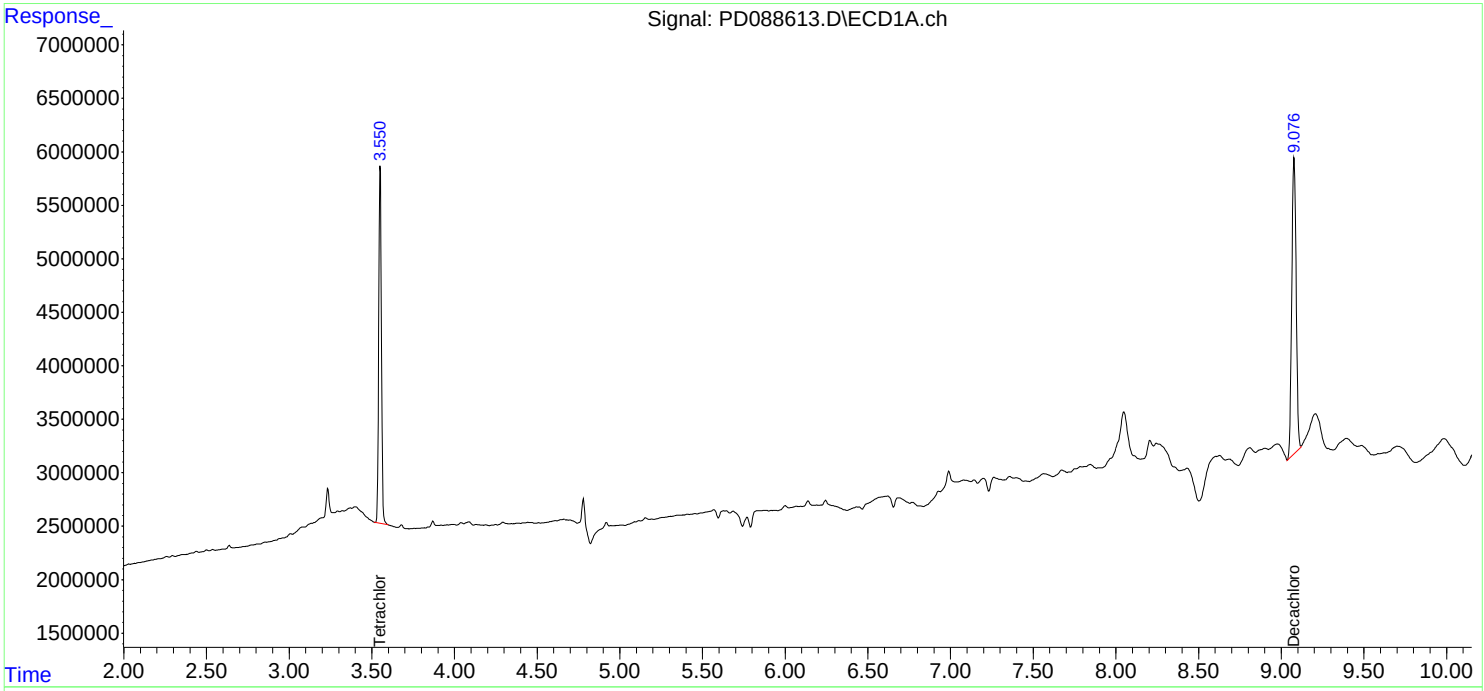
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088613.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 17:45
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

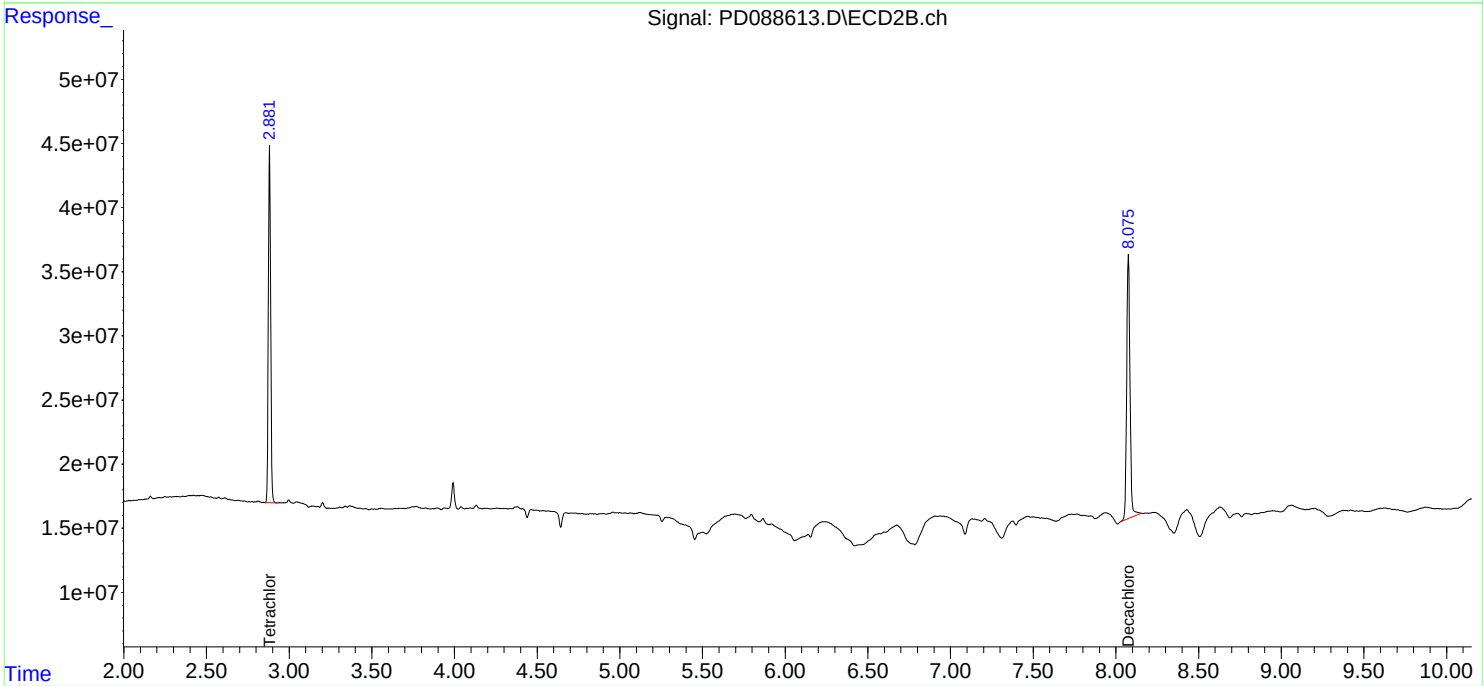
Instrument :
ECD_D
ClientSampleId :
I.BLK

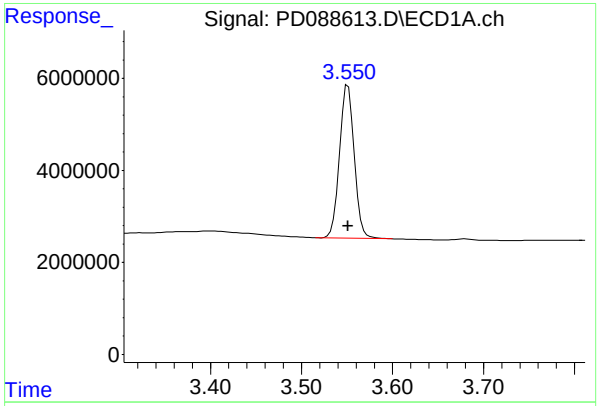
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:39:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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







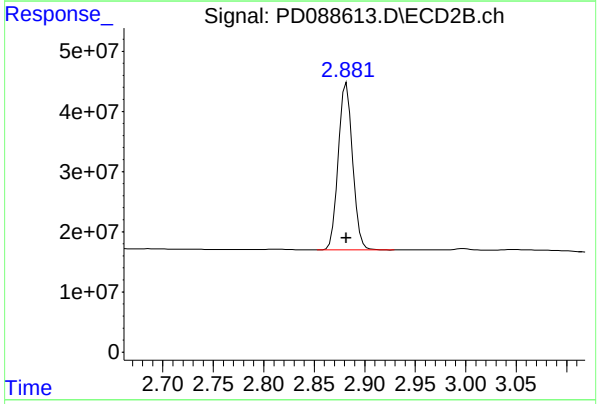
#1 Tetrachloro-m-xylene

R.T.: 3.551 min
Delta R.T.: 0.000 mi
Response: 37470058
Conc: 17.32 ng/m

Instrument :
ECD_D
ClientSampleId :
I.BLK

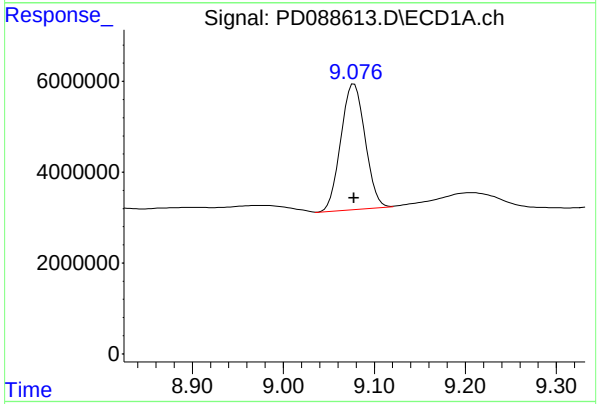
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/20/2025
Supervised By :mohammad ahmed 05/21/2025



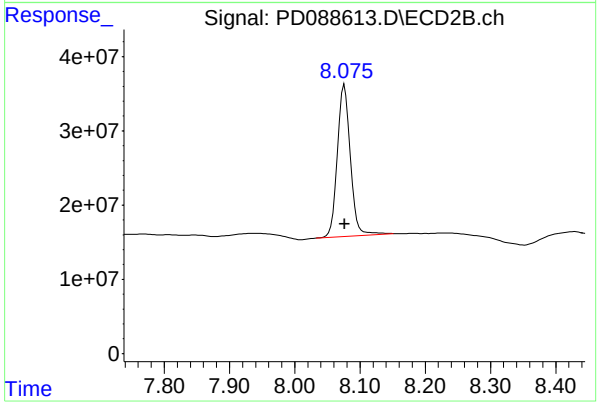
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 274393079
Conc: 18.14 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.076 min
Delta R.T.: -0.001 min
Response: 51411928
Conc: 15.02 ng/ml m



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 284390691
Conc: 15.58 ng/ml

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Nobis Group	Date Collected:	
Project:	Raymark Superfund Site	Date Received:	
Client Sample ID:	PB167959BS	SDG No.:	Q1984
Lab Sample ID:	PB167959BS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088526.D	1	05/13/25 08:30	05/13/25 17:15	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
319-84-6	alpha-BHC	0.018		0.00013	0.00033	0.0017	mg/Kg
319-85-7	beta-BHC	0.017		0.00018	0.00083	0.0017	mg/Kg
319-86-8	delta-BHC	0.018		0.00039	0.00083	0.0017	mg/Kg
58-89-9	gamma-BHC (Lindane)	0.018		0.00014	0.00033	0.0017	mg/Kg
76-44-8	Heptachlor	0.018		0.00012	0.00033	0.0017	mg/Kg
309-00-2	Aldrin	0.018		0.00012	0.00033	0.0017	mg/Kg
1024-57-3	Heptachlor epoxide	0.018		0.00019	0.00083	0.0017	mg/Kg
959-98-8	Endosulfan I	0.018		0.00014	0.00033	0.0017	mg/Kg
60-57-1	Dieldrin	0.018		0.00014	0.00033	0.0017	mg/Kg
72-55-9	4,4-DDE	0.018		0.00014	0.00033	0.0017	mg/Kg
72-20-8	Endrin	0.017		0.00014	0.00033	0.0017	mg/Kg
33213-65-9	Endosulfan II	0.018		0.00029	0.00083	0.0017	mg/Kg
72-54-8	4,4-DDD	0.019		0.00015	0.00033	0.0017	mg/Kg
1031-07-8	Endosulfan Sulfate	0.018		0.00013	0.00033	0.0017	mg/Kg
50-29-3	4,4-DDT	0.017		0.00014	0.00033	0.0017	mg/Kg
72-43-5	Methoxychlor	0.017		0.00037	0.00083	0.0017	mg/Kg
53494-70-5	Endrin ketone	0.018		0.00019	0.00083	0.0017	mg/Kg
7421-93-4	Endrin aldehyde	0.018		0.00037	0.00083	0.0017	mg/Kg
5103-71-9	alpha-Chlordane	0.018		0.00012	0.00033	0.0017	mg/Kg
5103-74-2	gamma-Chlordane	0.018		0.00015	0.00033	0.0017	mg/Kg
8001-35-2	Toxaphene	0.017	U	0.0054	0.017	0.033	mg/Kg
SURROGATES							
2051-24-3	Decachlorobiphenyl	22.7		55 - 130		114%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.6		42 - 129		108%	SPK: 20

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Report of Analysis

Client:	Nobis Group	Date Collected:	
Project:	Raymark Superfund Site	Date Received:	
Client Sample ID:	PB167959BS	SDG No.:	Q1984
Lab Sample ID:	PB167959BS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088526.D	1	05/13/25 08:30	05/13/25 17:15	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051325\
Data File : PD088526.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2025 17:15
Operator : AR\AJ
Sample : PB167959BS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB167959BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 22:44:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1) SA	Tetrachlo...	3.551	2.882	43148373	310.8E6	21.602	21.256
28) SA	Decachlor...	9.074	8.074	75153695	379.7E6	22.718	20.550
	Target Compounds						
2) A	alpha-BHC	4.001	3.395	229.8E6	1105.1E6	53.289	48.340
3) MA	gamma-BHC...	4.332	3.731	220.7E6	1027.0E6	52.700	47.680
4) MA	Heptachlor	4.931	4.084	218.6E6	1013.2E6	54.114	47.351
5) MB	Aldrin	5.273	4.371	215.1E6	1013.0E6	54.450	48.696
6) B	beta-BHC	4.516	4.027	84446365	445.7E6	52.019	48.162
7) B	delta-BHC	4.765	4.263	223.4E6	1031.4E6	54.157	48.511
8) B	Heptachlo...	5.692	4.875	193.8E6	906.6E6	54.239	47.983
9) A	Endosulfan I	6.076	5.249	184.2E6	860.7E6	54.542	47.783
10) B	gamma-Chl...	5.947	5.128	197.3E6	974.0E6	54.469	47.992
11) B	alpha-Chl...	6.028	5.193	196.3E6	938.5E6	54.383	47.878
12) B	4,4'-DDE	6.197	5.377	175.6E6	949.8E6	53.233	48.226
13) MA	Dieldrin	6.348	5.515	196.1E6	959.1E6	54.953	48.118
14) MA	Endrin	6.575	5.791	155.5E6	844.2E6	52.120	46.380
15) B	Endosulfa...	6.787	6.083	165.1E6	833.6E6	52.820	47.575
16) A	4,4'-DDD	6.706	5.932	139.7E6	807.0E6	55.543	49.251
17) MA	4,4'-DDT	7.022	6.186	144.3E6	781.6E6	51.960	45.930
18) B	Endrin al...	6.916	6.261	123.4E6	629.4E6	53.469	47.321
19) B	Endosulfa...	7.150	6.484	154.7E6	807.7E6	53.783	47.145
20) A	Methoxychlor	7.494	6.757	74867705	410.8E6	49.927	45.034
21) B	Endrin ke...	7.631	6.993	166.6E6	889.9E6	53.961	47.580
22)	Mirex	8.115	7.187	120.2E6	664.7E6	51.191	44.849

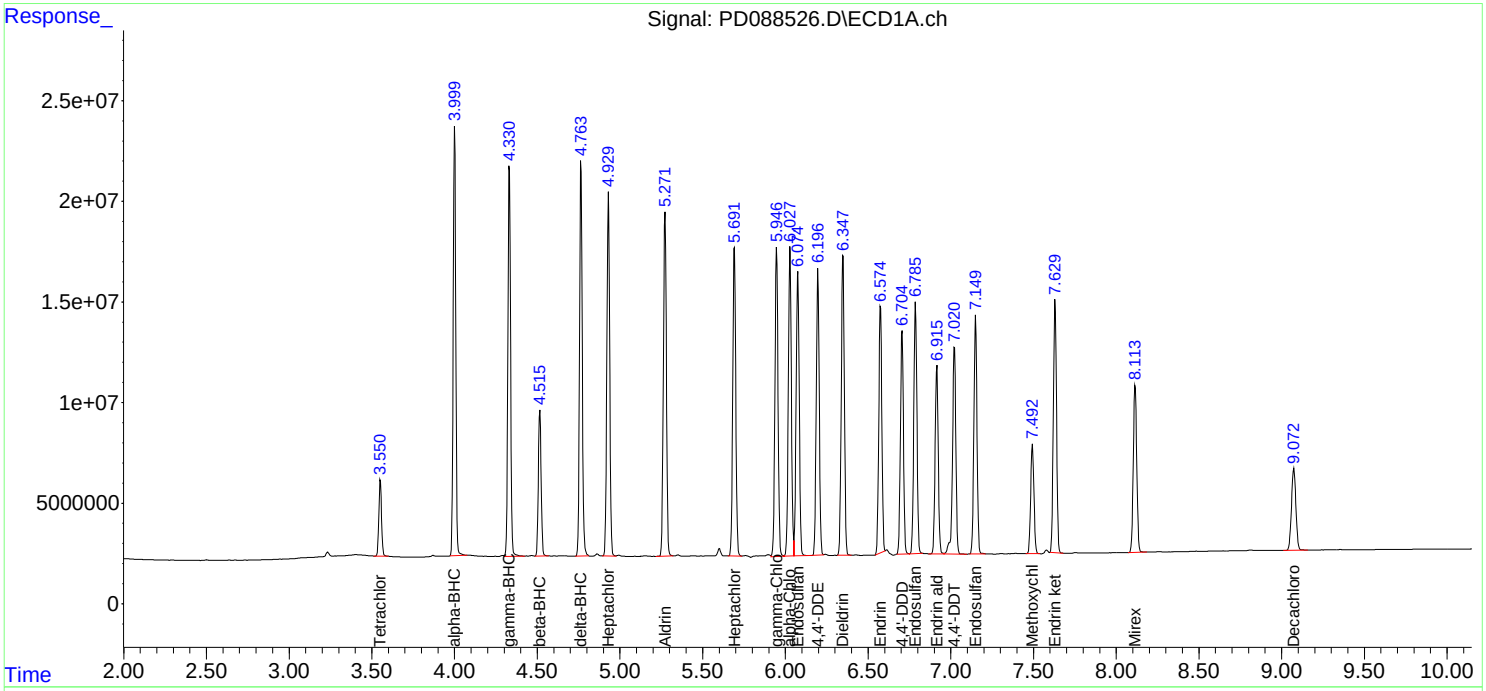
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

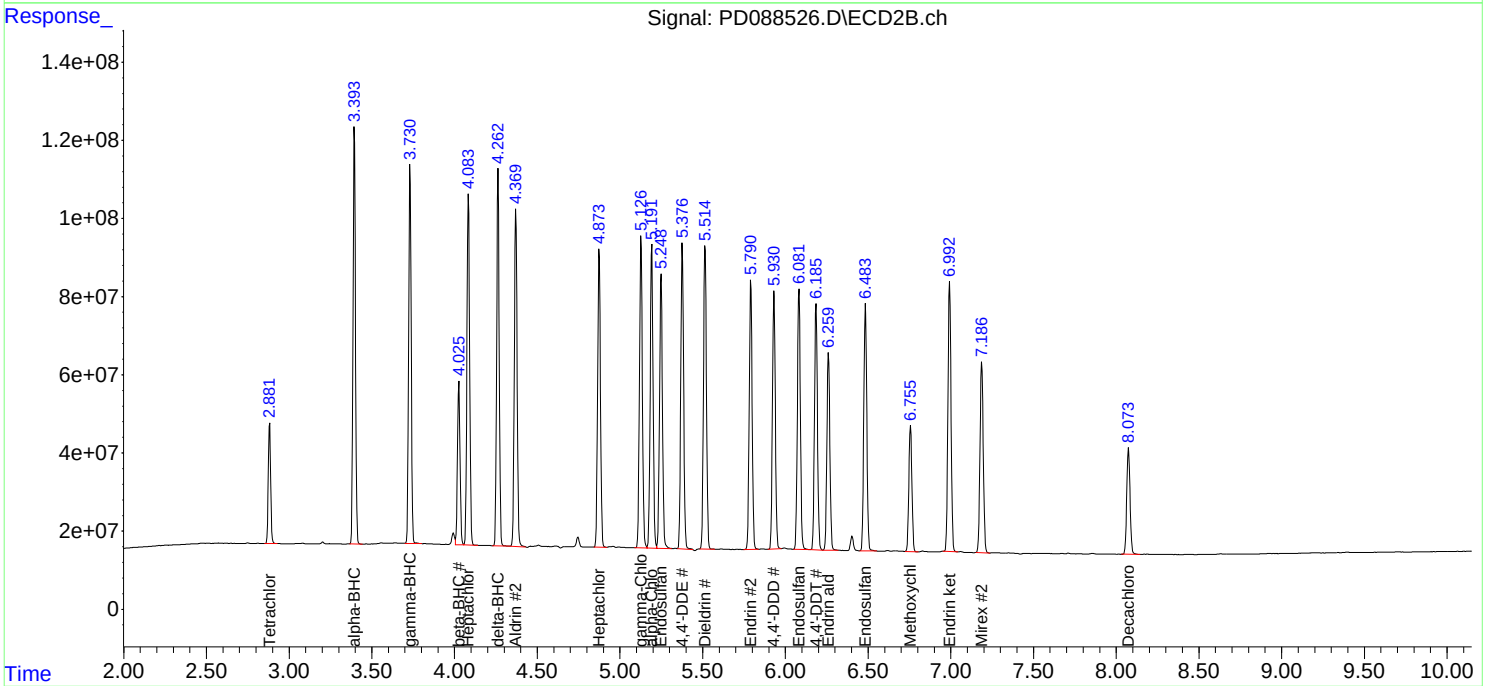
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051325\
Data File : PD088526.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2025 17:15
Operator : AR\AJ
Sample : PB167959BS
Misc :
ALS Vial : 27 Sample Multiplier: 1

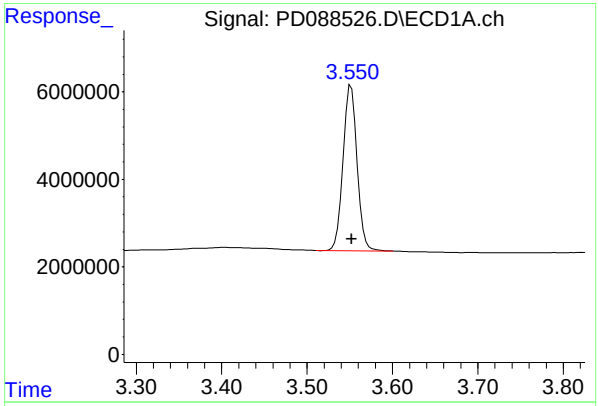
Instrument :
ECD_D
ClientSampleId :
PB167959BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 22:44:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



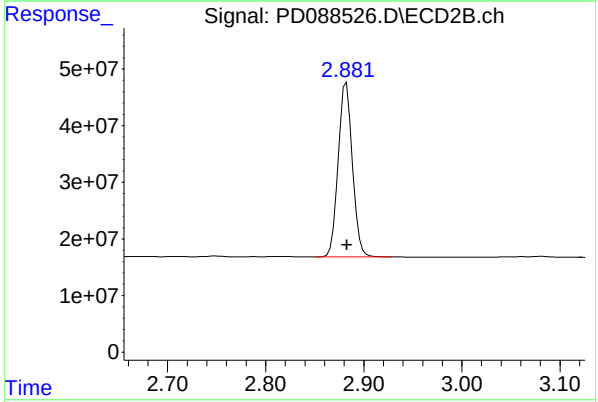




#1 Tetrachloro-m-xylene

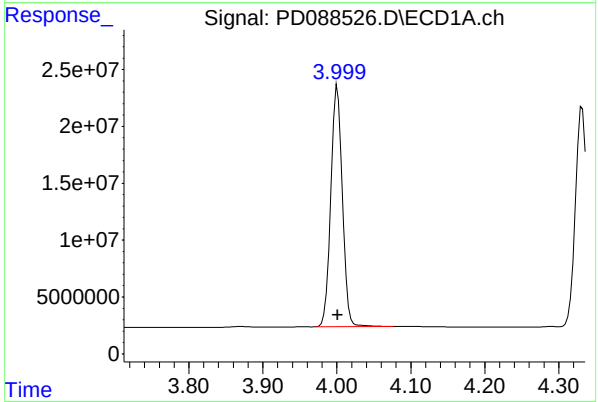
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 43148373
Conc: 21.60 ng/ml

Instrument :
ECD_D
ClientSampleId :
PB167959BS



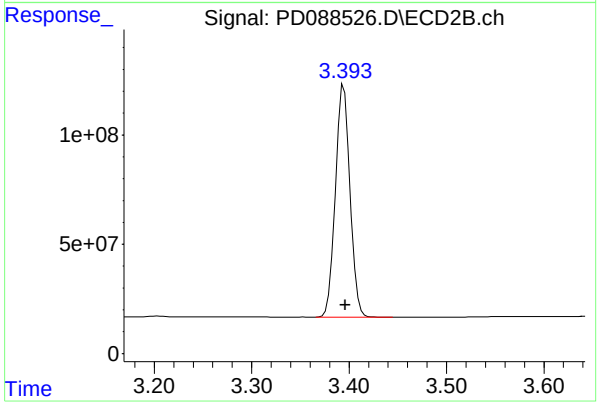
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 310793341
Conc: 21.26 ng/ml



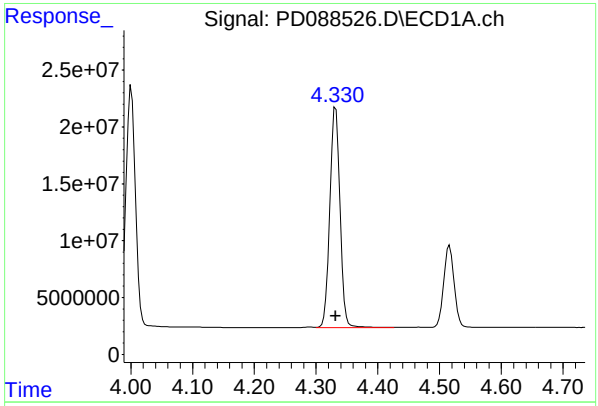
#2 alpha-BHC

R.T.: 4.001 min
Delta R.T.: 0.000 min
Response: 229783839
Conc: 53.29 ng/ml



#2 alpha-BHC

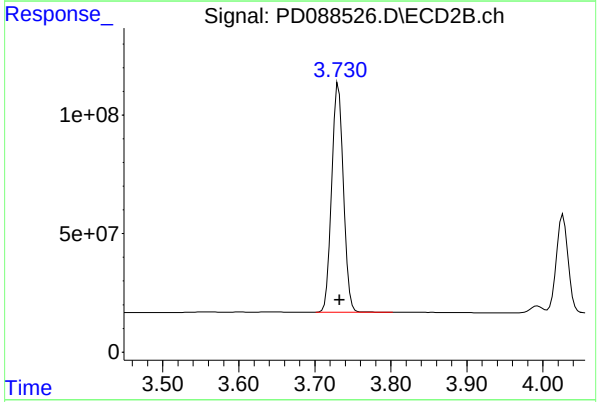
R.T.: 3.395 min
Delta R.T.: -0.001 min
Response: 1105120376
Conc: 48.34 ng/ml



#3 gamma-BHC (Lindane)

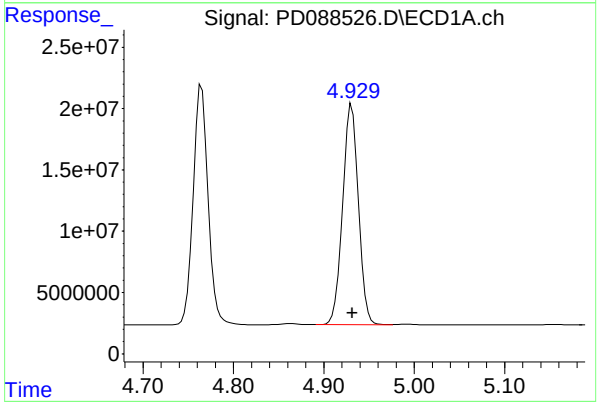
R.T.: 4.332 min
Delta R.T.: 0.000 min
Response: 220682324
Conc: 52.70 ng/ml

Instrument :
ECD_D
ClientSampleId :
PB167959BS



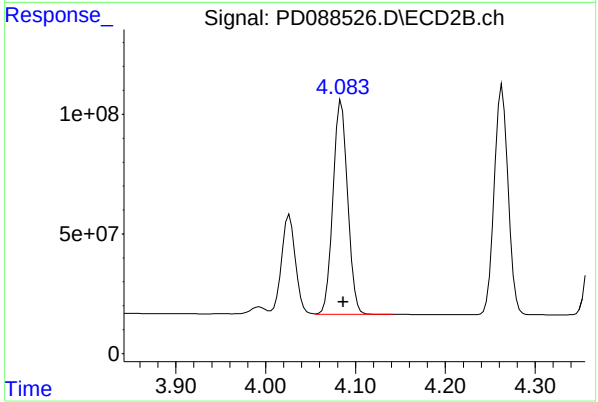
#3 gamma-BHC (Lindane)

R.T.: 3.731 min
Delta R.T.: -0.002 min
Response: 1026966349
Conc: 47.68 ng/ml



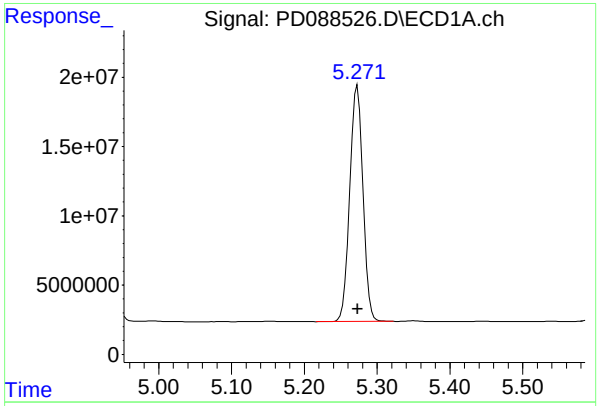
#4 Heptachlor

R.T.: 4.931 min
Delta R.T.: 0.000 min
Response: 218562397
Conc: 54.11 ng/ml



#4 Heptachlor

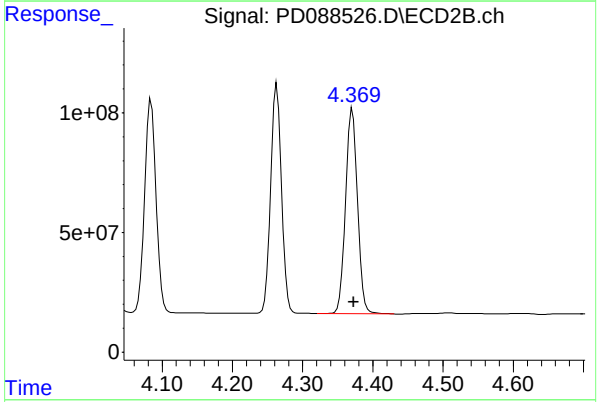
R.T.: 4.084 min
Delta R.T.: -0.002 min
Response: 1013214942
Conc: 47.35 ng/ml



#5 Aldrin

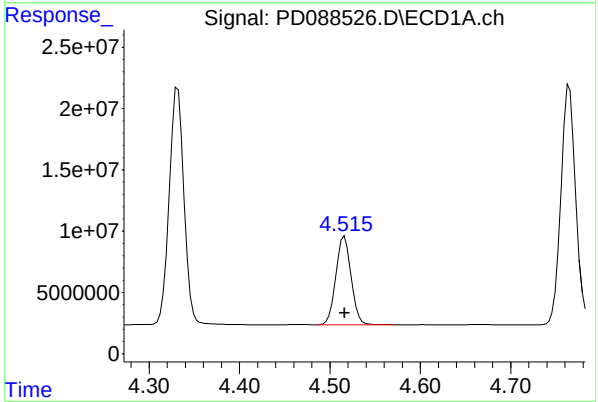
R.T.: 5.273 min
Delta R.T.: 0.000 min
Response: 215053845
Conc: 54.45 ng/ml

Instrument :
ECD_D
ClientSampleId :
PB167959BS



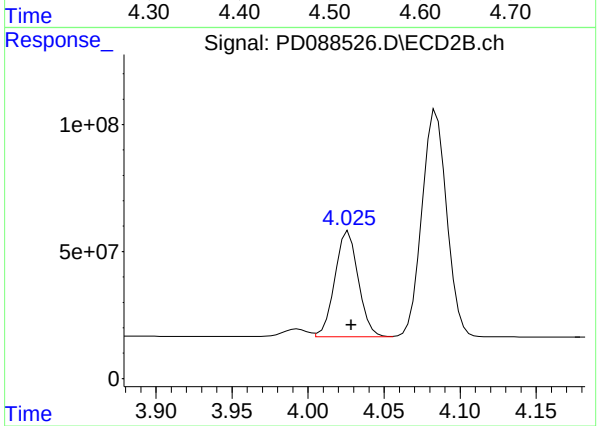
#5 Aldrin

R.T.: 4.371 min
Delta R.T.: -0.002 min
Response: 1013013816
Conc: 48.70 ng/ml



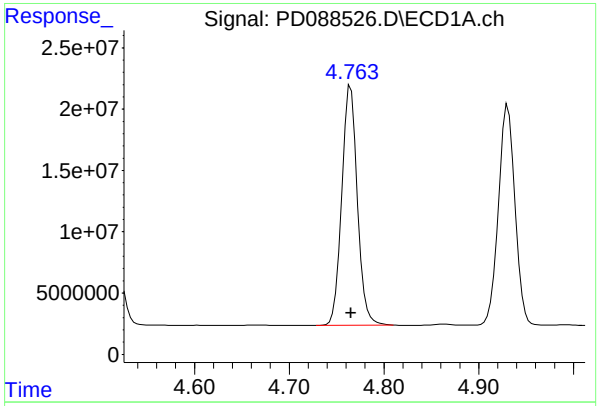
#6 beta-BHC

R.T.: 4.516 min
Delta R.T.: 0.000 min
Response: 84446365
Conc: 52.02 ng/ml



#6 beta-BHC

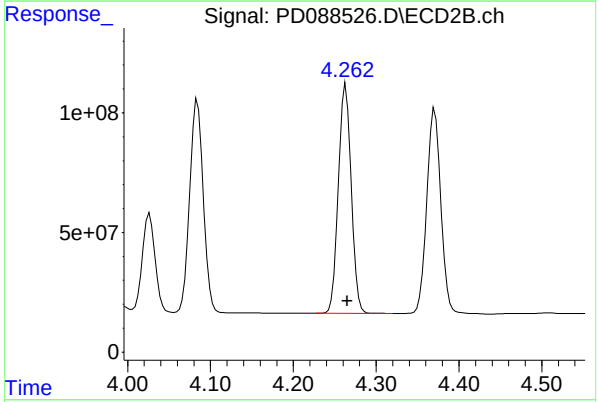
R.T.: 4.027 min
Delta R.T.: -0.002 min
Response: 445697719
Conc: 48.16 ng/ml



#7 delta-BHC

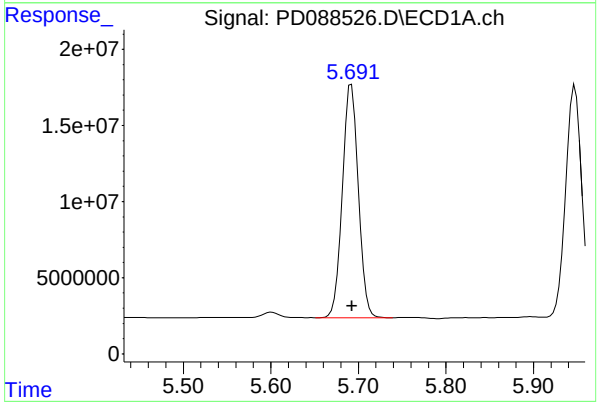
R.T.: 4.765 min
Delta R.T.: 0.000 min
Response: 223397332
Conc: 54.16 ng/ml

Instrument :
ECD_D
ClientSampleId :
PB167959BS



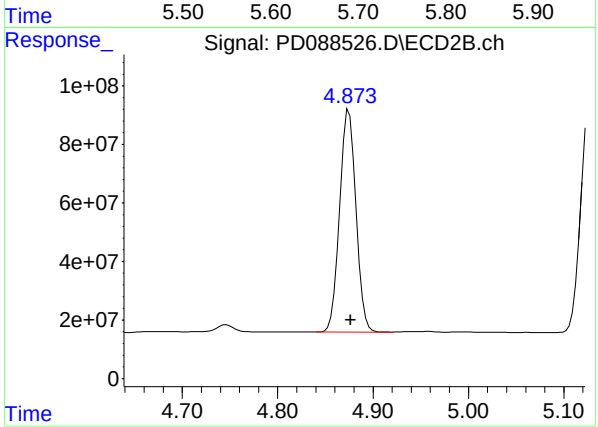
#7 delta-BHC

R.T.: 4.263 min
Delta R.T.: -0.002 min
Response: 1031420417
Conc: 48.51 ng/ml



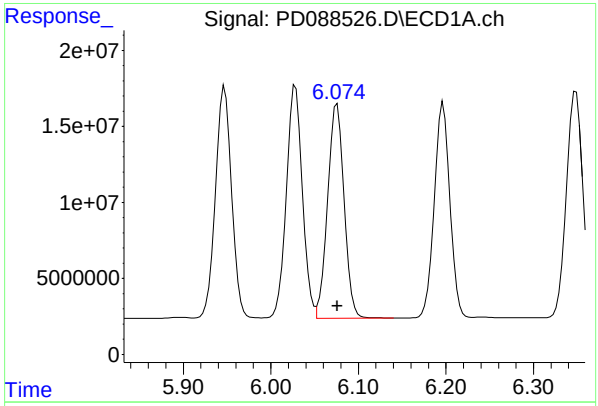
#8 Heptachlor epoxide

R.T.: 5.692 min
Delta R.T.: 0.000 min
Response: 193847581
Conc: 54.24 ng/ml



#8 Heptachlor epoxide

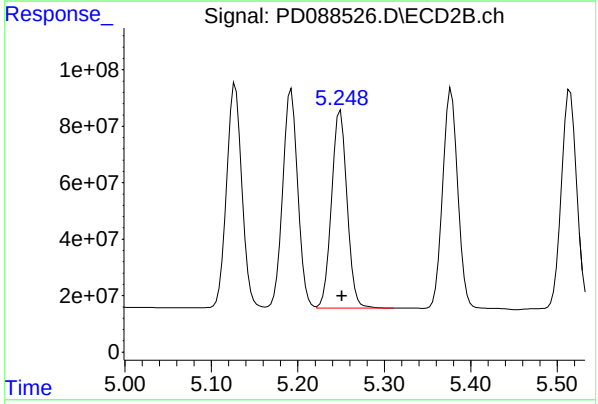
R.T.: 4.875 min
Delta R.T.: -0.002 min
Response: 906609811
Conc: 47.98 ng/ml



#9 Endosulfan I

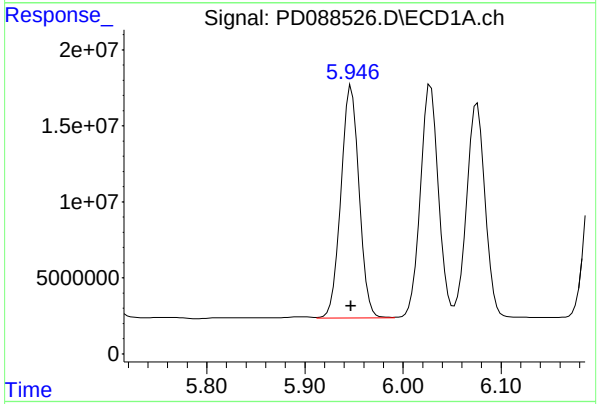
R.T.: 6.076 min
Delta R.T.: 0.000 min
Response: 184196758
Conc: 54.54 ng/ml

Instrument :
ECD_D
ClientSampleId :
PB167959BS



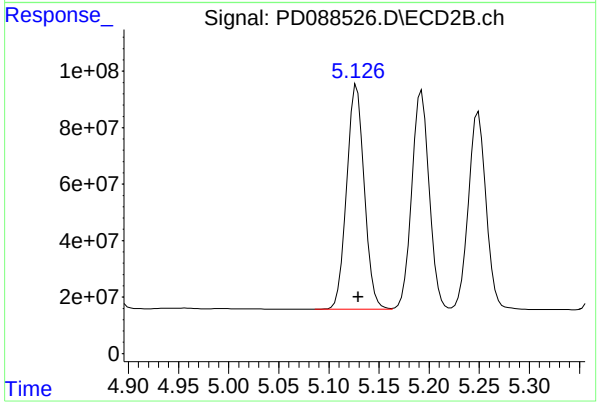
#9 Endosulfan I

R.T.: 5.249 min
Delta R.T.: -0.002 min
Response: 860687771
Conc: 47.78 ng/ml



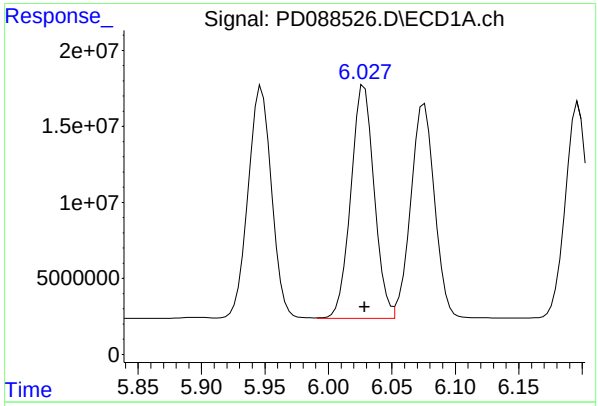
#10 gamma-Chlordane

R.T.: 5.947 min
Delta R.T.: 0.000 min
Response: 197288777
Conc: 54.47 ng/ml



#10 gamma-Chlordane

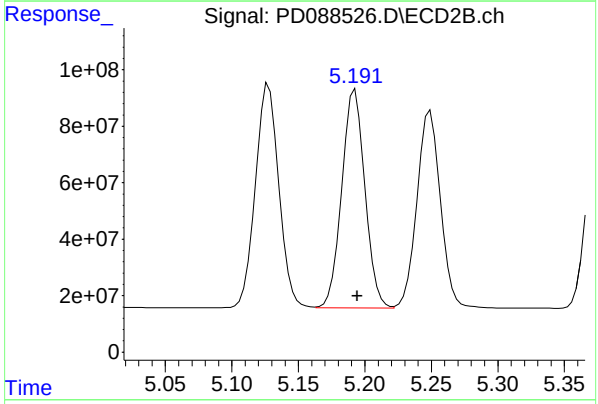
R.T.: 5.128 min
Delta R.T.: -0.002 min
Response: 974044603
Conc: 47.99 ng/ml



#11 alpha-Chlordane

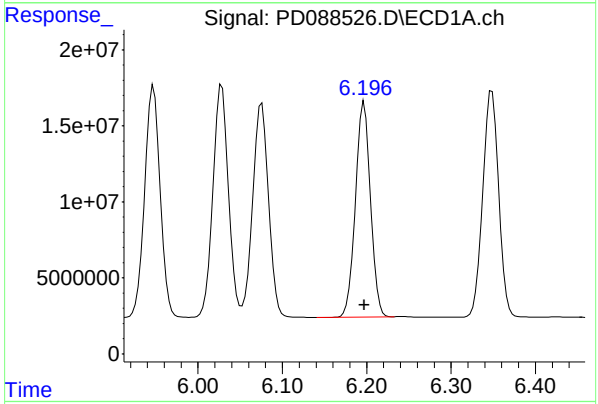
R.T.: 6.028 min
Delta R.T.: 0.000 min
Response: 196299712
Conc: 54.38 ng/ml

Instrument :
ECD_D
ClientSampleId :
PB167959BS



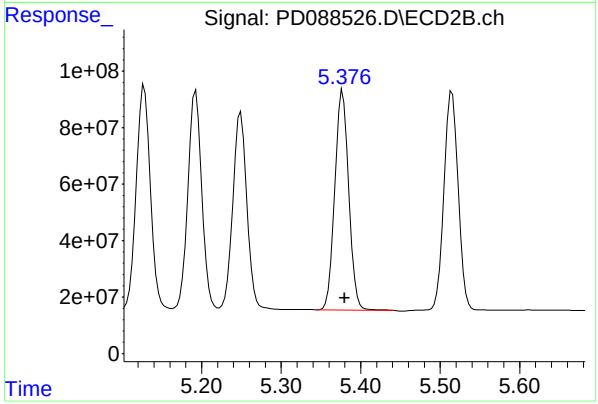
#11 alpha-Chlordane

R.T.: 5.193 min
Delta R.T.: -0.002 min
Response: 938545047
Conc: 47.88 ng/ml



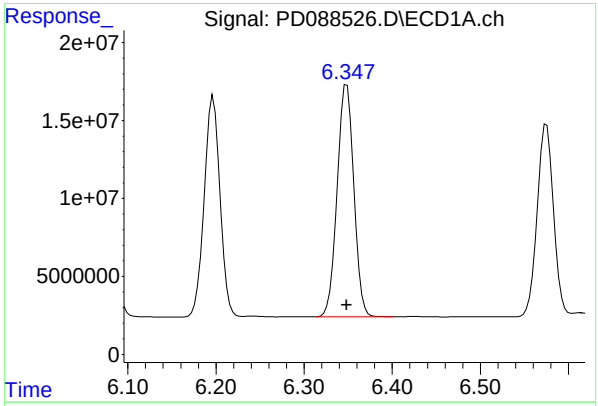
#12 4,4'-DDE

R.T.: 6.197 min
Delta R.T.: 0.000 min
Response: 175576511
Conc: 53.23 ng/ml



#12 4,4'-DDE

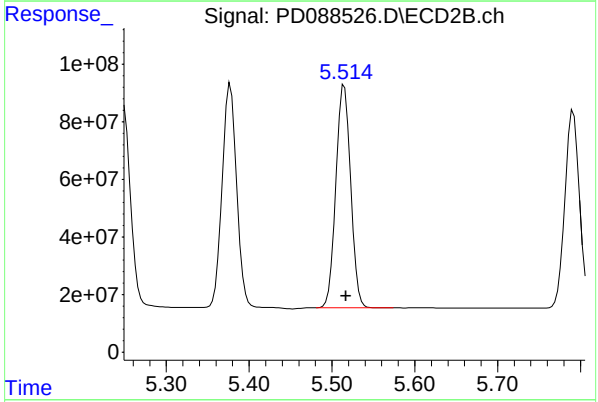
R.T.: 5.377 min
Delta R.T.: -0.002 min
Response: 949768939
Conc: 48.23 ng/ml



#13 Dieldrin

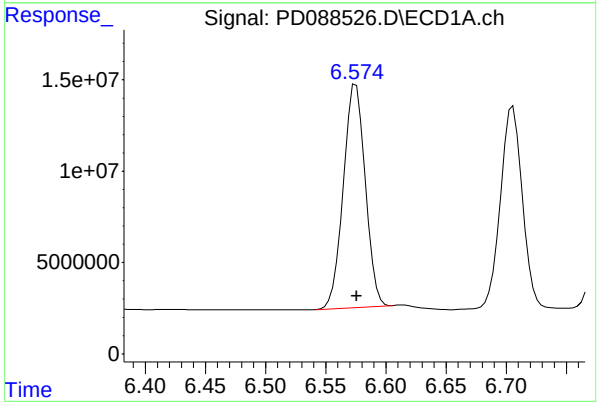
R.T.: 6.348 min
Delta R.T.: 0.000 min
Response: 196097856
Conc: 54.95 ng/ml

Instrument :
ECD_D
ClientSampleId :
PB167959BS



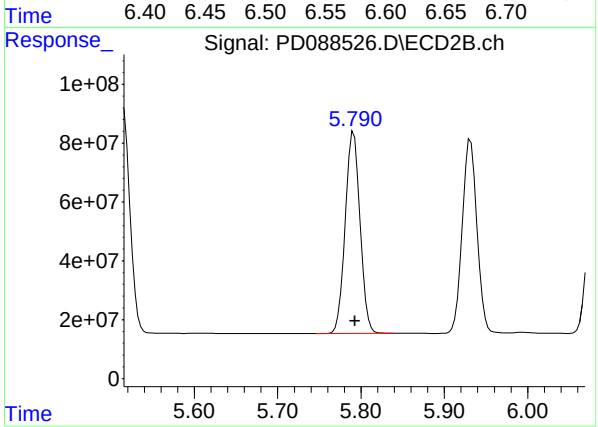
#13 Dieldrin

R.T.: 5.515 min
Delta R.T.: -0.002 min
Response: 959119972
Conc: 48.12 ng/ml



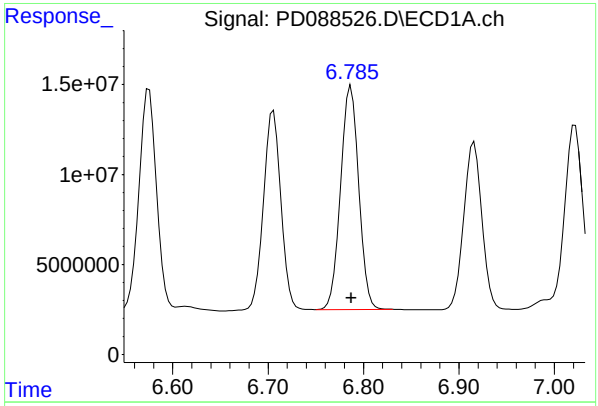
#14 Endrin

R.T.: 6.575 min
Delta R.T.: 0.000 min
Response: 155451811
Conc: 52.12 ng/ml



#14 Endrin

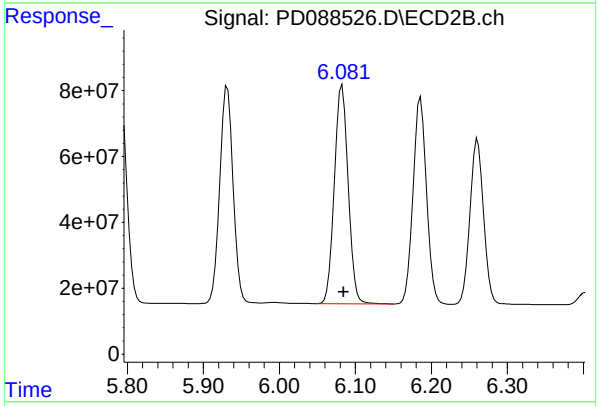
R.T.: 5.791 min
Delta R.T.: -0.002 min
Response: 844220907
Conc: 46.38 ng/ml



#15 Endosulfan II

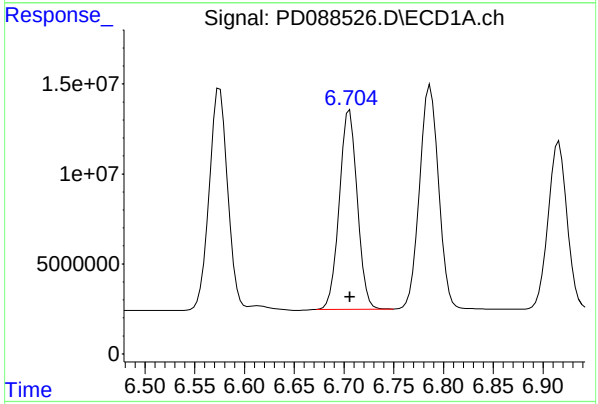
R.T.: 6.787 min
Delta R.T.: 0.000 min
Response: 165128165
Conc: 52.82 ng/ml

Instrument :
ECD_D
ClientSampleId :
PB167959BS



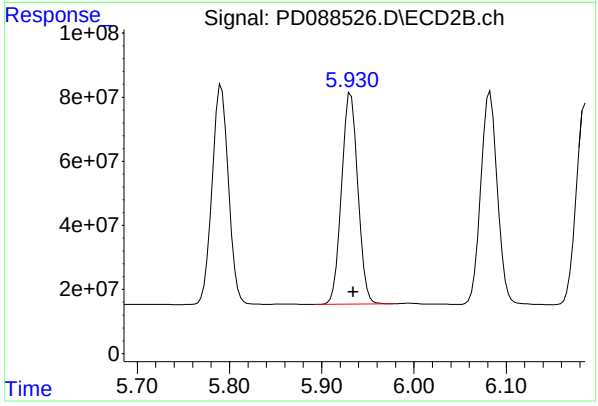
#15 Endosulfan II

R.T.: 6.083 min
Delta R.T.: -0.002 min
Response: 833585635
Conc: 47.57 ng/ml



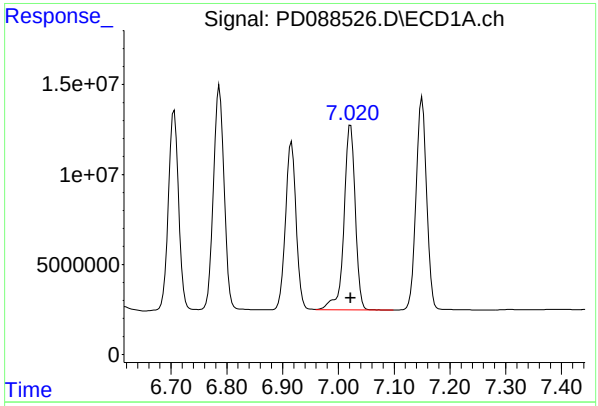
#16 4,4'-DDD

R.T.: 6.706 min
Delta R.T.: 0.000 min
Response: 139687217
Conc: 55.54 ng/ml



#16 4,4'-DDD

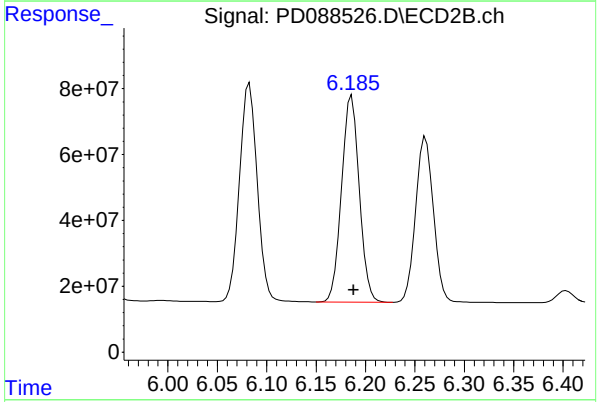
R.T.: 5.932 min
Delta R.T.: -0.003 min
Response: 807033901
Conc: 49.25 ng/ml



#17 4,4'-DDT

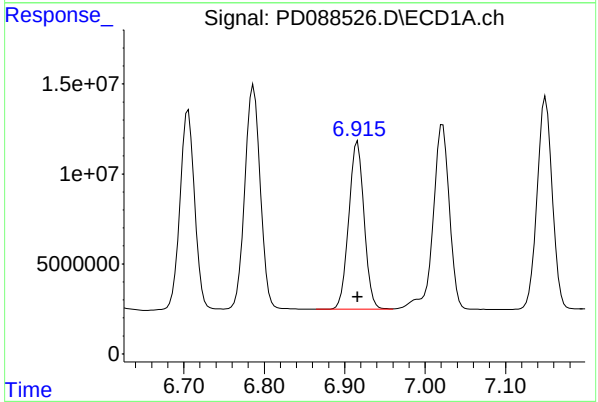
R.T.: 7.022 min
Delta R.T.: 0.000 min
Response: 144321142
Conc: 51.96 ng/ml

Instrument :
ECD_D
ClientSampleId :
PB167959BS



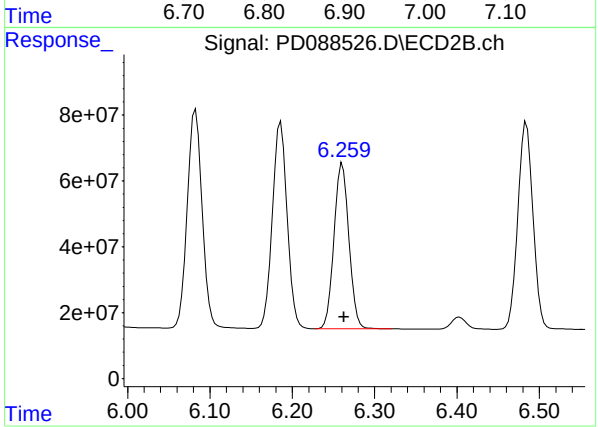
#17 4,4'-DDT

R.T.: 6.186 min
Delta R.T.: -0.002 min
Response: 781561809
Conc: 45.93 ng/ml



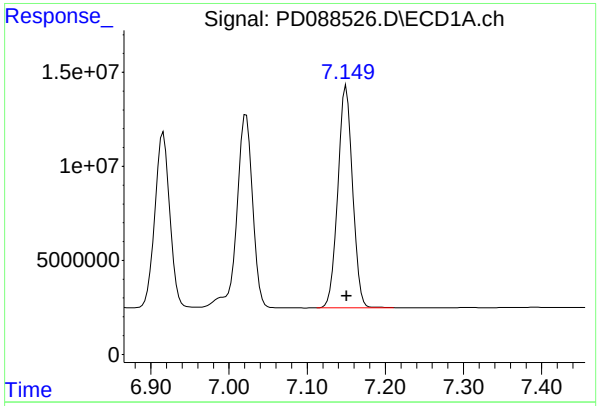
#18 Endrin aldehyde

R.T.: 6.916 min
Delta R.T.: 0.000 min
Response: 123406067
Conc: 53.47 ng/ml



#18 Endrin aldehyde

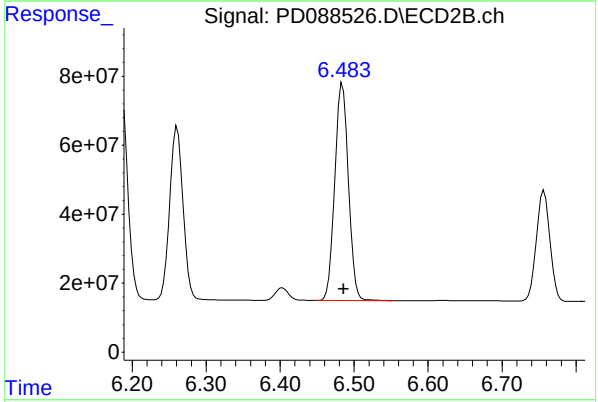
R.T.: 6.261 min
Delta R.T.: -0.002 min
Response: 629418493
Conc: 47.32 ng/ml



#19 Endosulfan Sulfate

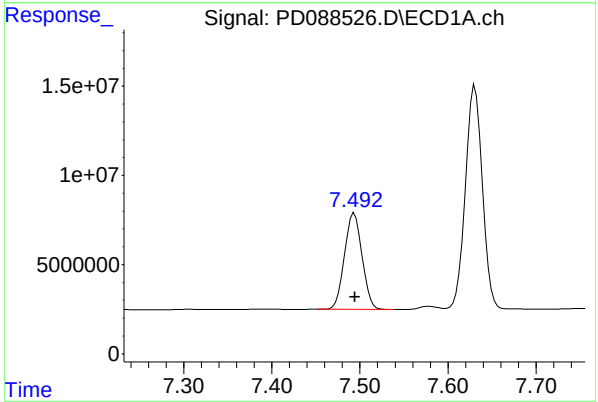
R.T.: 7.150 min
Delta R.T.: 0.000 min
Response: 154672163
Conc: 53.78 ng/ml

Instrument :
ECD_D
ClientSampleId :
PB167959BS



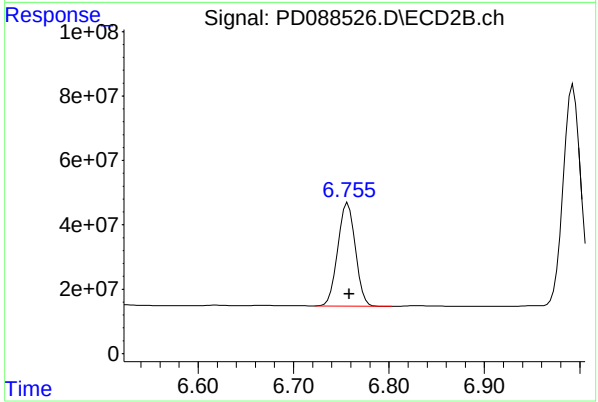
#19 Endosulfan Sulfate

R.T.: 6.484 min
Delta R.T.: -0.002 min
Response: 807744711
Conc: 47.14 ng/ml



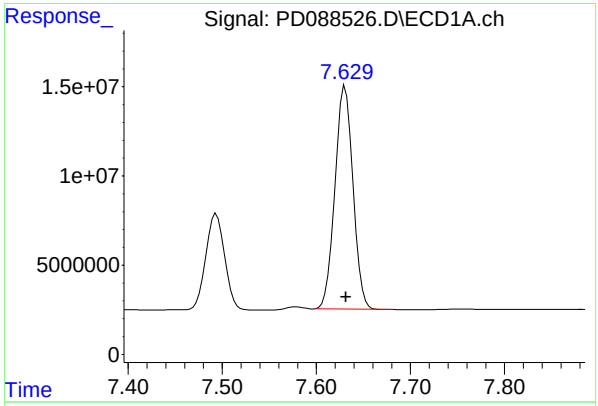
#20 Methoxychlor

R.T.: 7.494 min
Delta R.T.: 0.000 min
Response: 74867705
Conc: 49.93 ng/ml



#20 Methoxychlor

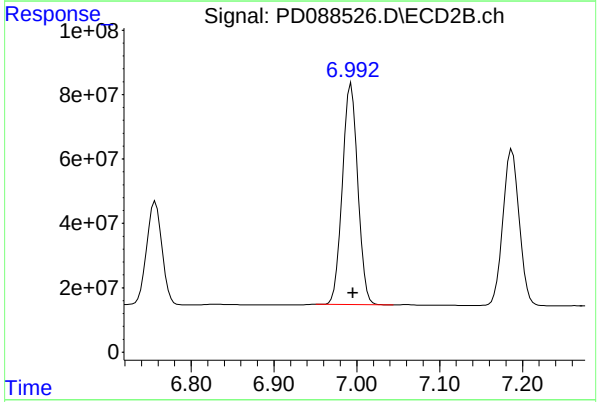
R.T.: 6.757 min
Delta R.T.: -0.002 min
Response: 410761663
Conc: 45.03 ng/ml



#21 Endrin ketone

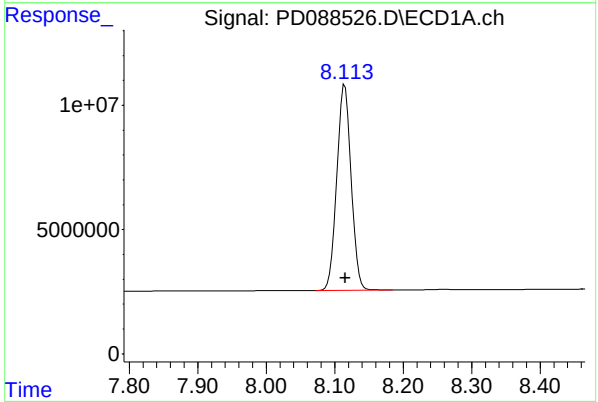
R.T.: 7.631 min
Delta R.T.: 0.000 min
Response: 166555581
Conc: 53.96 ng/ml

Instrument :
ECD_D
ClientSampleId :
PB167959BS



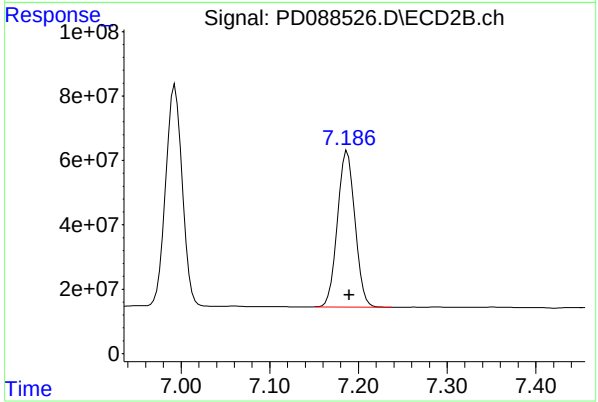
#21 Endrin ketone

R.T.: 6.993 min
Delta R.T.: -0.002 min
Response: 889938628
Conc: 47.58 ng/ml



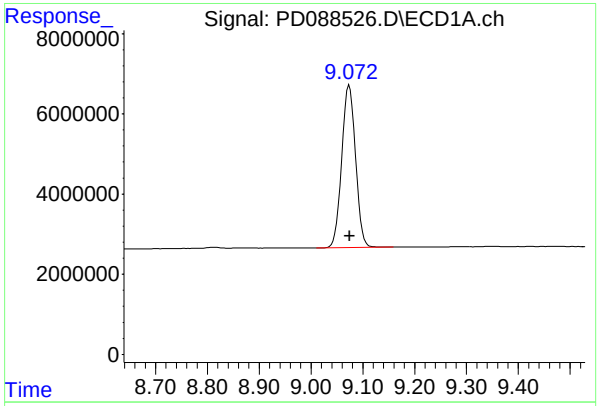
#22 Mirex

R.T.: 8.115 min
Delta R.T.: 0.000 min
Response: 120213831
Conc: 51.19 ng/ml



#22 Mirex

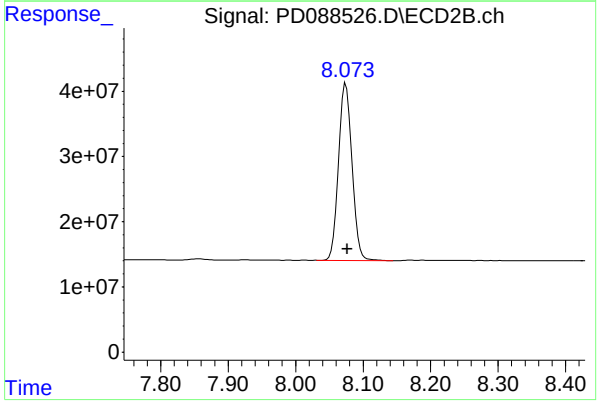
R.T.: 7.187 min
Delta R.T.: -0.002 min
Response: 664700919
Conc: 44.85 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.074 min
Delta R.T.: -0.001 min
Response: 75153695
Conc: 22.72 ng/ml

Instrument :
ECD_D
ClientSampleId :
PB167959BS



#28 Decachlorobiphenyl

R.T.: 8.074 min
Delta R.T.: -0.003 min
Response: 379748407
Conc: 20.55 ng/ml

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-PCS-TC-33-050725MS	SDG No.:	Q1984
Lab Sample ID:	Q1984-01MS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	95.1 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088559.D	1	05/13/25 08:30	05/15/25 12:52	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
319-84-6	alpha-BHC	0.020		0.00014	0.00035	0.0018	mg/Kg
319-85-7	beta-BHC	0.019		0.00019	0.00087	0.0018	mg/Kg
319-86-8	delta-BHC	0.020		0.00041	0.00087	0.0018	mg/Kg
58-89-9	gamma-BHC (Lindane)	0.020		0.00015	0.00035	0.0018	mg/Kg
76-44-8	Heptachlor	0.020		0.00013	0.00035	0.0018	mg/Kg
309-00-2	Aldrin	0.020		0.00013	0.00035	0.0018	mg/Kg
1024-57-3	Heptachlor epoxide	0.020		0.00020	0.00087	0.0018	mg/Kg
959-98-8	Endosulfan I	0.020		0.00015	0.00035	0.0018	mg/Kg
60-57-1	Dieldrin	0.020		0.00015	0.00035	0.0018	mg/Kg
72-55-9	4,4-DDE	0.019		0.00015	0.00035	0.0018	mg/Kg
72-20-8	Endrin	0.020		0.00015	0.00035	0.0018	mg/Kg
33213-65-9	Endosulfan II	0.019		0.00030	0.00087	0.0018	mg/Kg
72-54-8	4,4-DDD	0.020		0.00016	0.00035	0.0018	mg/Kg
1031-07-8	Endosulfan Sulfate	0.019		0.00014	0.00035	0.0018	mg/Kg
50-29-3	4,4-DDT	0.019		0.00015	0.00035	0.0018	mg/Kg
72-43-5	Methoxychlor	0.019		0.00039	0.00087	0.0018	mg/Kg
53494-70-5	Endrin ketone	0.020		0.00020	0.00087	0.0018	mg/Kg
7421-93-4	Endrin aldehyde	0.020		0.00039	0.00087	0.0018	mg/Kg
5103-71-9	alpha-Chlordane	0.020		0.00013	0.00035	0.0018	mg/Kg
5103-74-2	gamma-Chlordane	0.020		0.00016	0.00035	0.0018	mg/Kg
8001-35-2	Toxaphene	0.018	U	0.0057	0.018	0.035	mg/Kg
SURROGATES							
2051-24-3	Decachlorobiphenyl	21.1		55 - 130		106%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.0		42 - 129		105%	SPK: 20

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-PCS-TC-33-050725MS	SDG No.:	Q1984
Lab Sample ID:	Q1984-01MS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	95.1 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088559.D	1	05/13/25 08:30	05/15/25 12:52	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_D\Data\PD051525\
Data File : PD088559.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 12:52
Operator : AR\AJ
Sample : Q1984-01MS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:17:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.552	2.882	42022681	300.2E6	21.039	20.529
28)	SA Decachlor...	9.077	8.075	69954709	340.9E6	21.146	18.450
	Target Compounds						
2)	A alpha-BHC	4.001	3.395	242.8E6	1145.1E6	56.302	50.090
3)	MA gamma-BHC...	4.332	3.731	239.9E6	1044.4E6	57.288	48.490
4)	MA Heptachlor	4.932	4.085	234.9E6	1078.0E6	58.169	50.376
5)	MB Aldrin	5.272	4.370	226.1E6	1022.4E6	57.241m	49.150
6)	B beta-BHC	4.517	4.025	89755012	459.5E6	55.289	49.657m
7)	B delta-BHC	4.766	4.264	234.2E6	1055.2E6	56.765	49.630
8)	B Heptachlo...	5.693	4.875	201.5E6	924.8E6	56.388	48.948
9)	A Endosulfan I	6.077	5.249	191.2E6	878.2E6	56.623	48.753
10)	B gamma-Chl...	5.948	5.128	203.8E6	994.2E6	56.261	48.985
11)	B alpha-Chl...	6.029	5.192	203.7E6	959.2E6	56.428	48.933
12)	B 4,4'-DDE	6.198	5.377	180.9E6	956.6E6	54.862	48.572
13)	MA Dieldrin	6.350	5.515	204.2E6	976.0E6	57.234	48.964
14)	MA Endrin	6.577	5.791	166.5E6	893.2E6	55.835	49.069
15)	B Endosulfa...	6.789	6.082	169.7E6	843.5E6	54.272	48.139
16)	A 4,4'-DDD	6.708	5.932	144.6E6	767.5E6	57.484	46.839
17)	MA 4,4'-DDT	7.024	6.185	152.8E6	833.7E6	55.012	48.993
18)	B Endrin al...	6.918	6.260	128.2E6	645.4E6	55.557	48.522
19)	B Endosulfa...	7.151	6.484	157.3E6	804.4E6	54.682	46.949
20)	A Methoxychlor	7.496	6.757	79835270	434.2E6	53.240	47.604
21)	B Endrin ke...	7.633	6.994	172.8E6	904.7E6	56.000	48.371
22)	Mirex	8.117	7.188	125.7E6	675.7E6	53.547	45.590

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

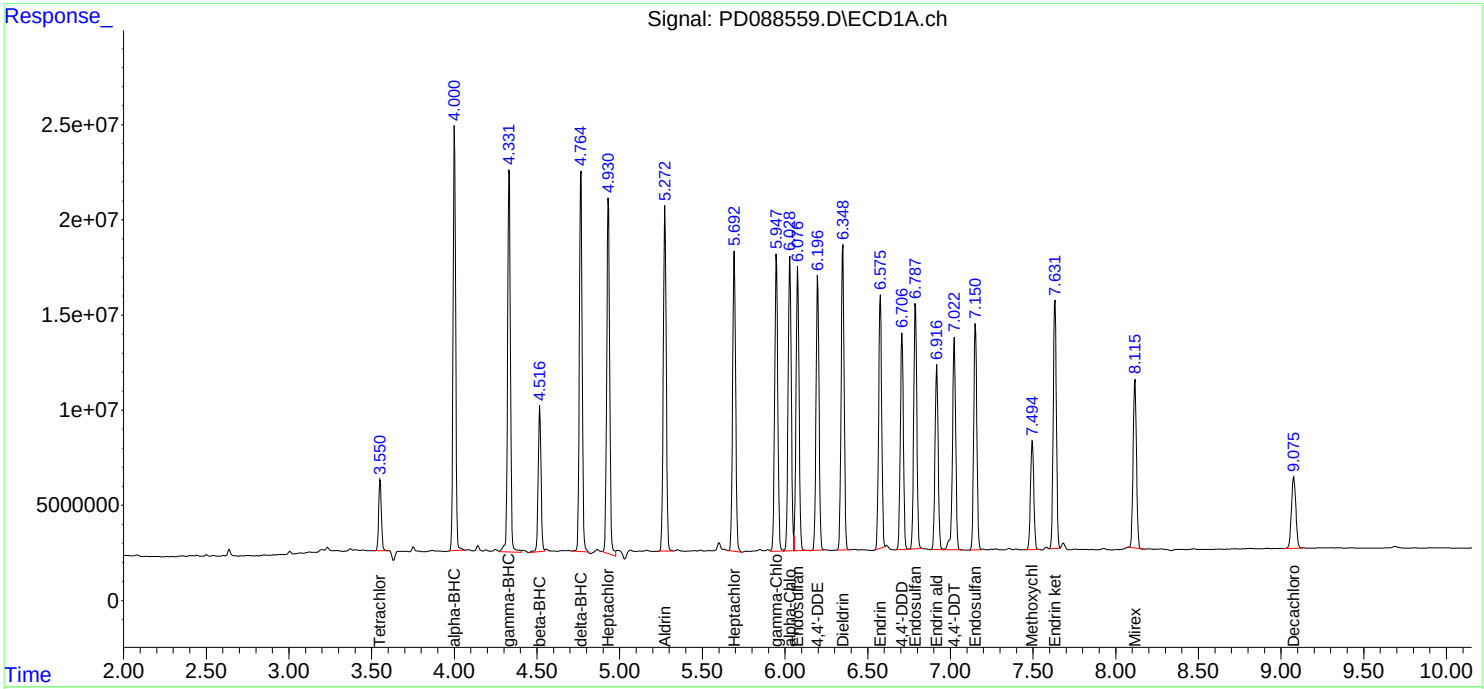
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088559.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 12:52
Operator : AR\AJ
Sample : Q1984-01MS
Misc :
ALS Vial : 10 Sample Multiplier: 1

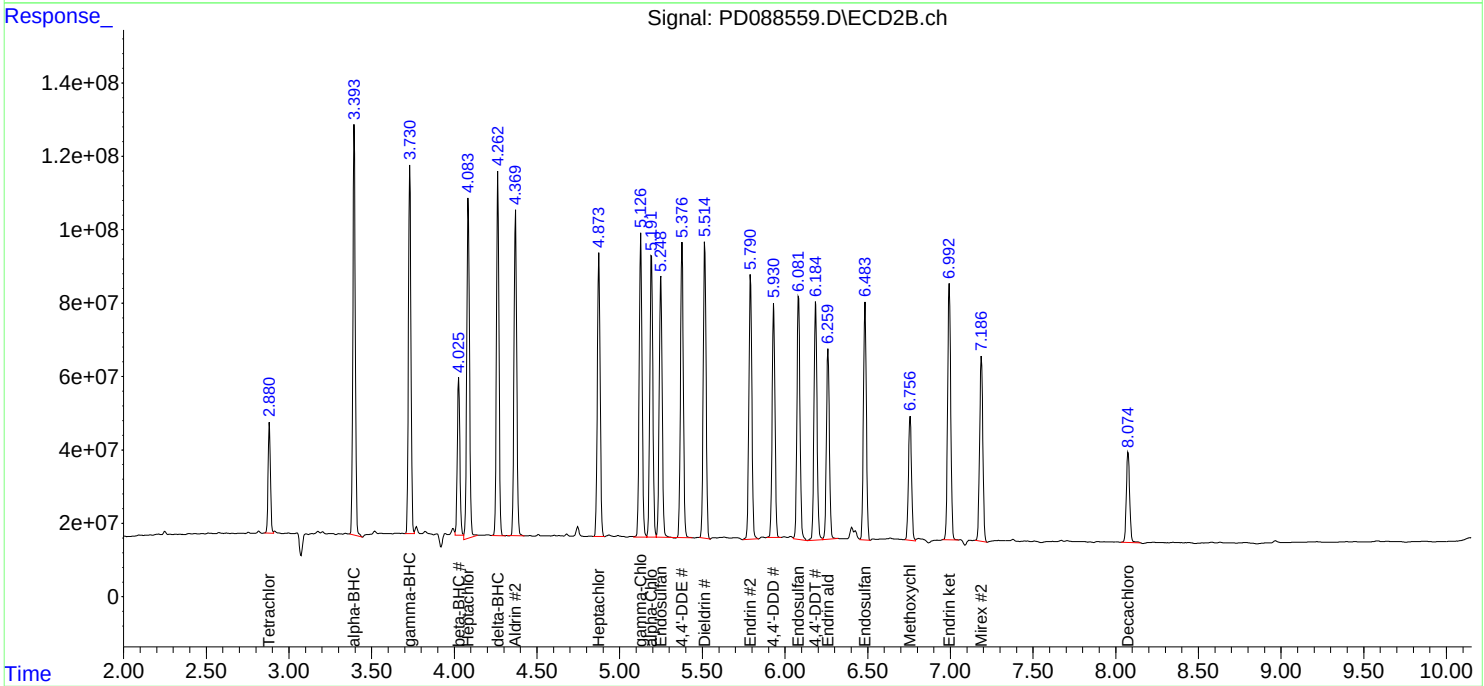
Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MS

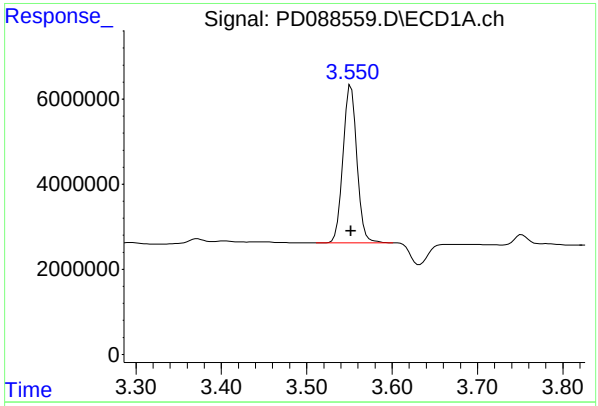
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:17:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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







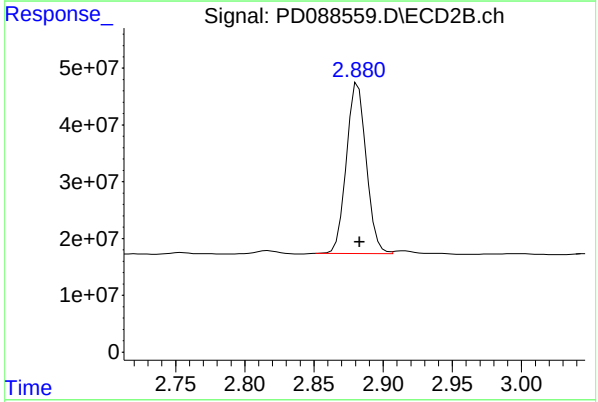
#1 Tetrachloro-m-xylene

R.T.: 3.552 min
Delta R.T.: 0.000 min
Response: 42022681
Conc: 21.04 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MS

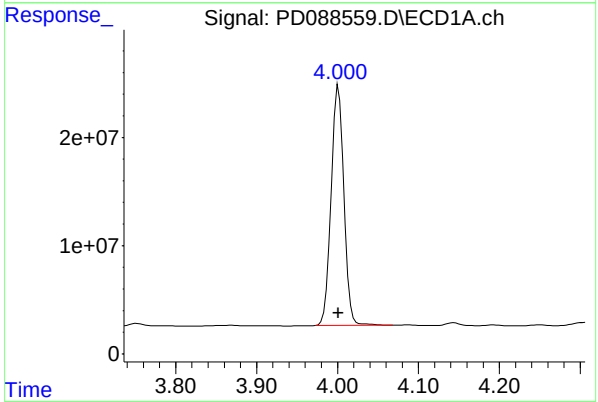
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



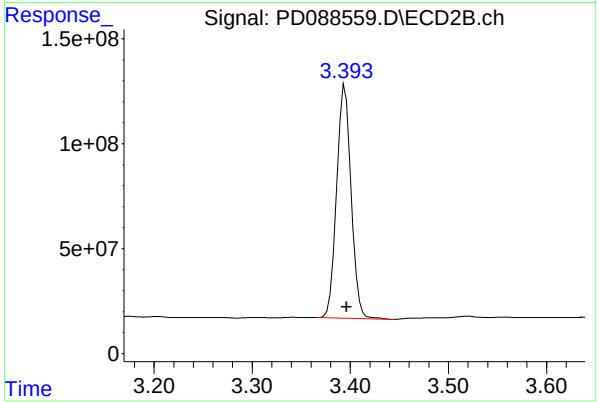
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: -0.001 min
Response: 300160235
Conc: 20.53 ng/ml



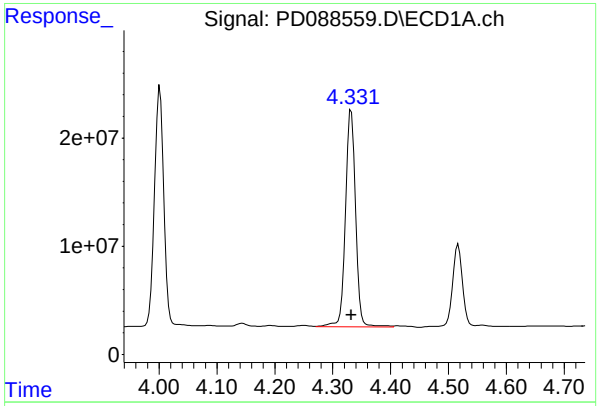
#2 alpha-BHC

R.T.: 4.001 min
Delta R.T.: 0.000 min
Response: 242772753
Conc: 56.30 ng/ml



#2 alpha-BHC

R.T.: 3.395 min
Delta R.T.: -0.001 min
Response: 1145128752
Conc: 50.09 ng/ml



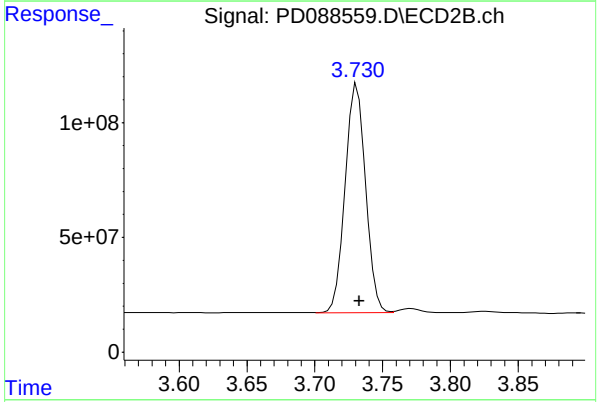
#3 gamma-BHC (Lindane)

R.T.: 4.332 min
Delta R.T.: 0.000 min
Response: 239892611
Conc: 57.29 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MS

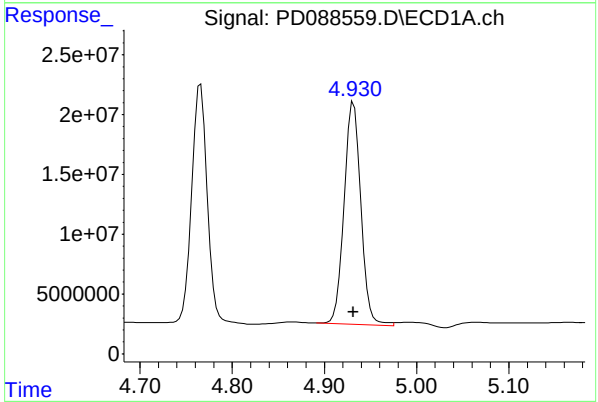
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



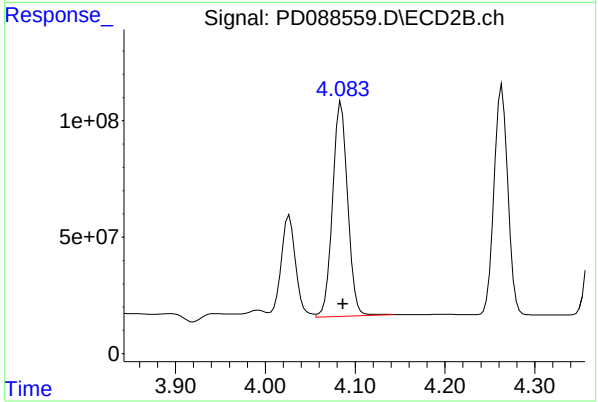
#3 gamma-BHC (Lindane)

R.T.: 3.731 min
Delta R.T.: -0.002 min
Response: 1044415757
Conc: 48.49 ng/ml



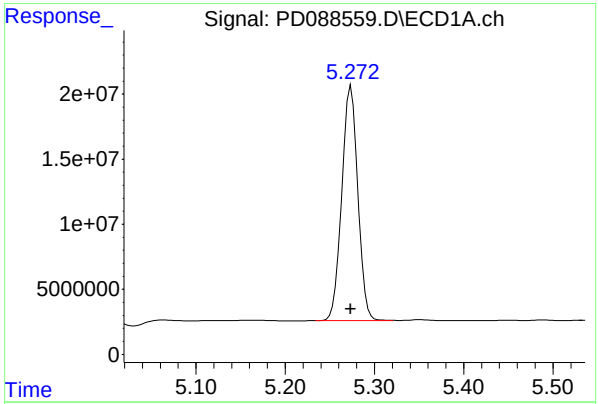
#4 Heptachlor

R.T.: 4.932 min
Delta R.T.: 0.000 min
Response: 234940584
Conc: 58.17 ng/ml



#4 Heptachlor

R.T.: 4.085 min
Delta R.T.: -0.002 min
Response: 1077951823
Conc: 50.38 ng/ml



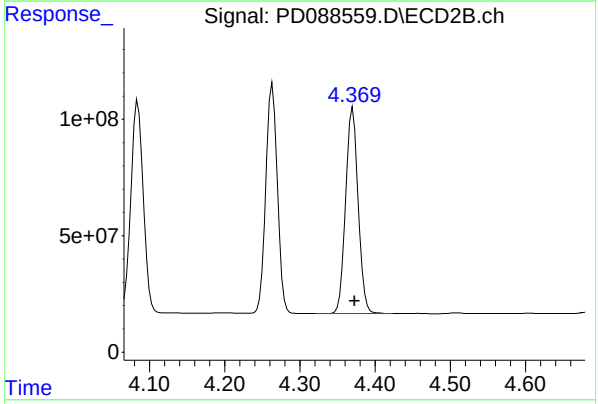
#5 Aldrin

R.T.: 5.272 min
Delta R.T.: 0.000 mi
Response: 226079498
Conc: 57.24 ng/m

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MS

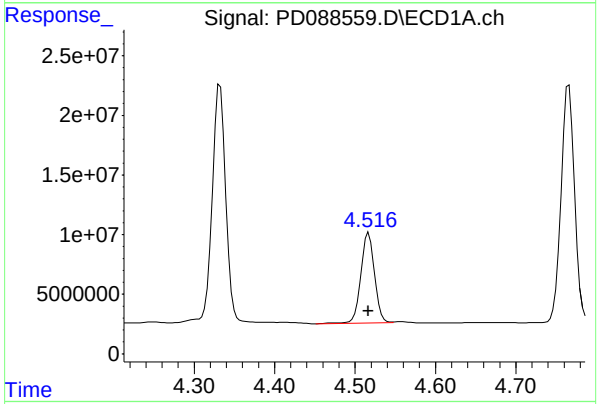
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



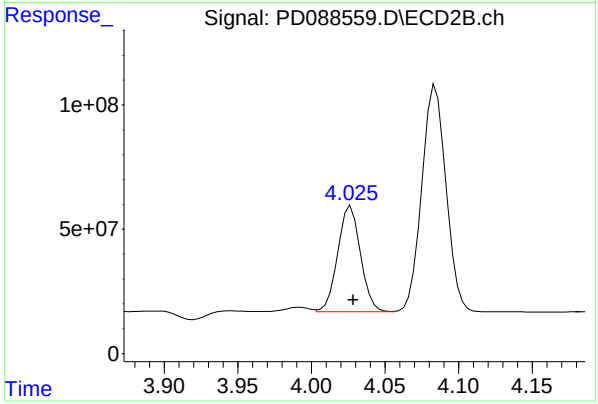
#5 Aldrin

R.T.: 4.370 min
Delta R.T.: -0.002 min
Response: 1022447697
Conc: 49.15 ng/ml



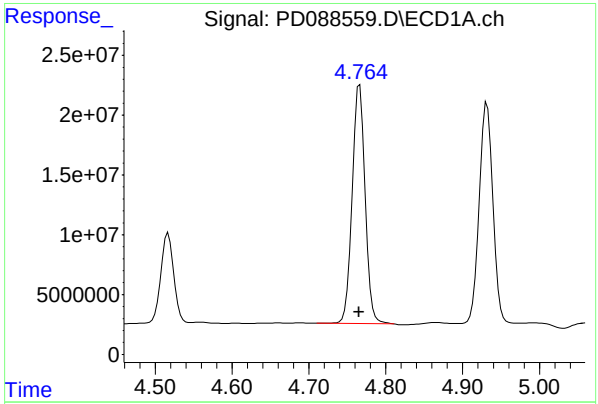
#6 beta-BHC

R.T.: 4.517 min
Delta R.T.: 0.000 min
Response: 89755012
Conc: 55.29 ng/ml



#6 beta-BHC

R.T.: 4.025 min
Delta R.T.: -0.003 min
Response: 459533852
Conc: 49.66 ng/ml m



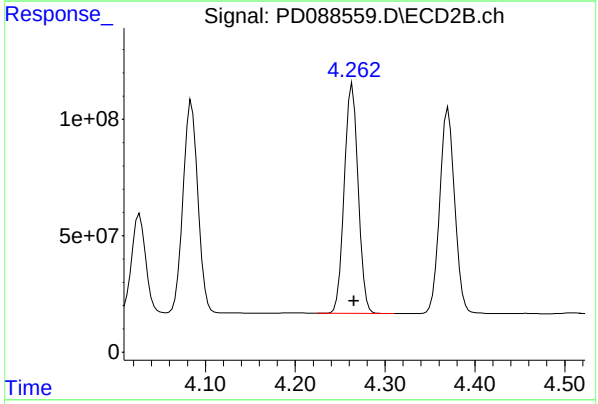
#7 delta-BHC

R.T.: 4.766 min
Delta R.T.: 0.000 min
Response: 234153627
Conc: 56.76 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MS

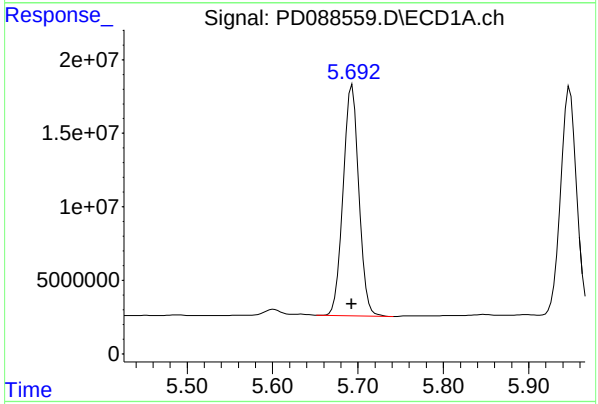
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



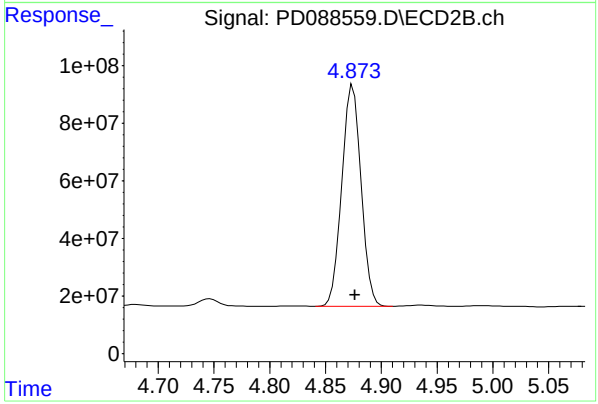
#7 delta-BHC

R.T.: 4.264 min
Delta R.T.: -0.002 min
Response: 1055218492
Conc: 49.63 ng/ml



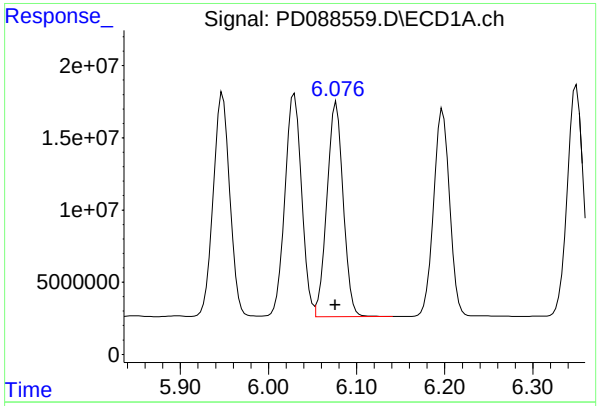
#8 Heptachlor epoxide

R.T.: 5.693 min
Delta R.T.: 0.000 min
Response: 201526689
Conc: 56.39 ng/ml



#8 Heptachlor epoxide

R.T.: 4.875 min
Delta R.T.: -0.002 min
Response: 924829354
Conc: 48.95 ng/ml



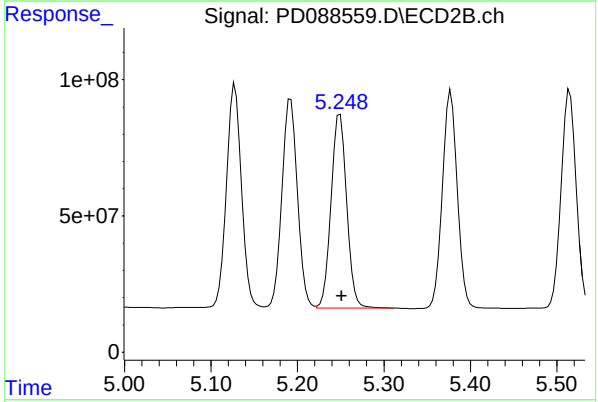
#9 Endosulfan I

R.T.: 6.077 min
Delta R.T.: 0.001 min
Response: 191224723
Conc: 56.62 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MS

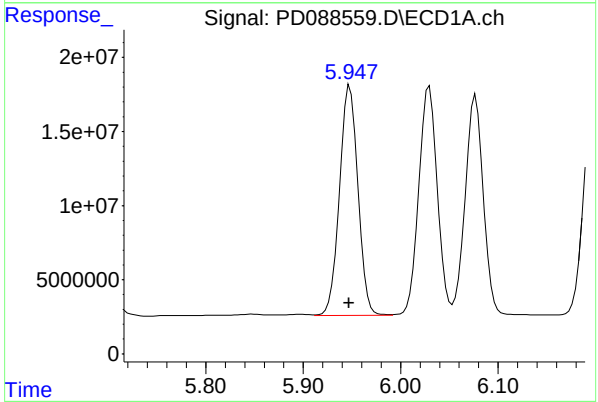
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



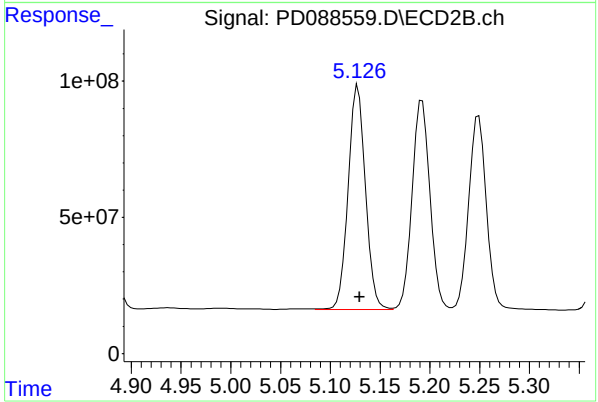
#9 Endosulfan I

R.T.: 5.249 min
Delta R.T.: -0.002 min
Response: 878162647
Conc: 48.75 ng/ml



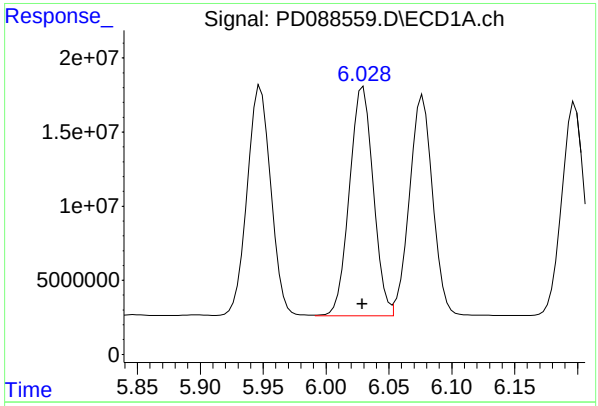
#10 gamma-Chlordane

R.T.: 5.948 min
Delta R.T.: 0.000 min
Response: 203781334
Conc: 56.26 ng/ml



#10 gamma-Chlordane

R.T.: 5.128 min
Delta R.T.: -0.002 min
Response: 994207964
Conc: 48.99 ng/ml



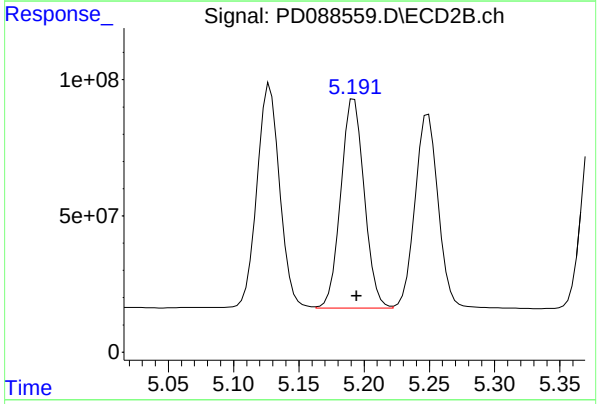
#11 alpha-Chlordane

R.T.: 6.029 min
Delta R.T.: 0.000 min
Response: 203682778
Conc: 56.43 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MS

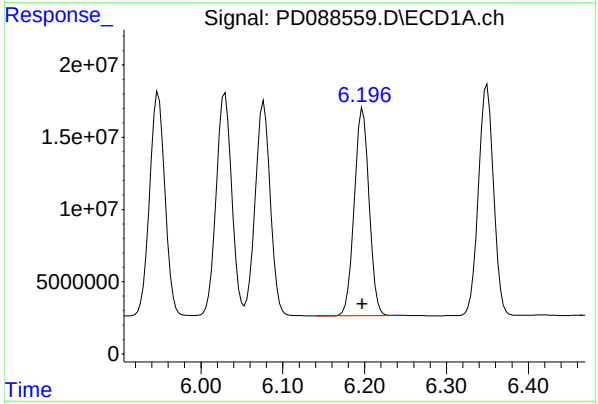
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



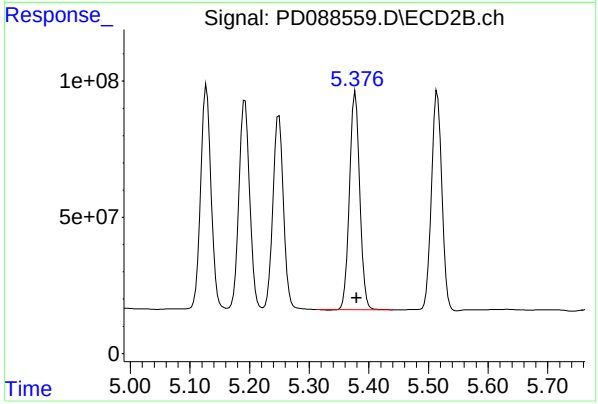
#11 alpha-Chlordane

R.T.: 5.192 min
Delta R.T.: -0.002 min
Response: 959225609
Conc: 48.93 ng/ml



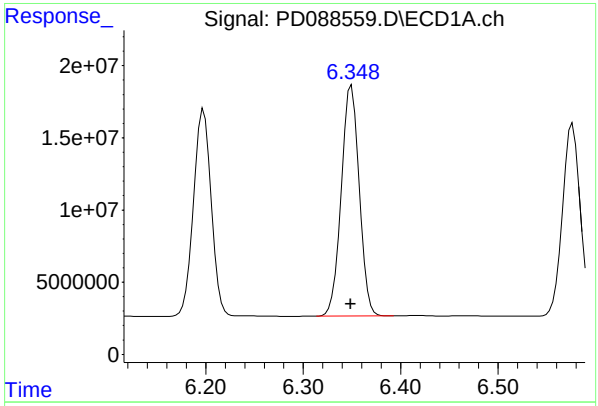
#12 4,4'-DDE

R.T.: 6.198 min
Delta R.T.: 0.000 min
Response: 180948878
Conc: 54.86 ng/ml



#12 4,4'-DDE

R.T.: 5.377 min
Delta R.T.: -0.002 min
Response: 956585469
Conc: 48.57 ng/ml



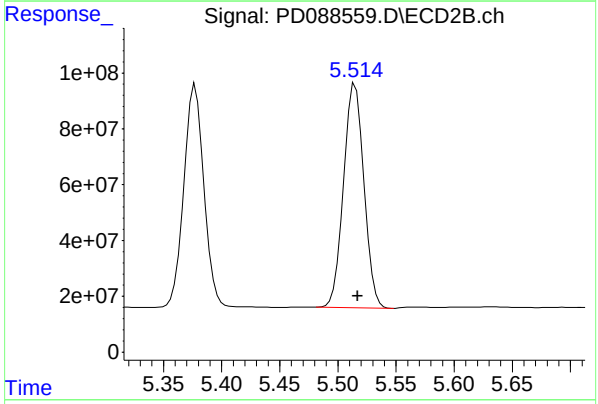
#13 Dieldrin

R.T.: 6.350 min
Delta R.T.: 0.001 min
Response: 204239964
Conc: 57.23 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MS

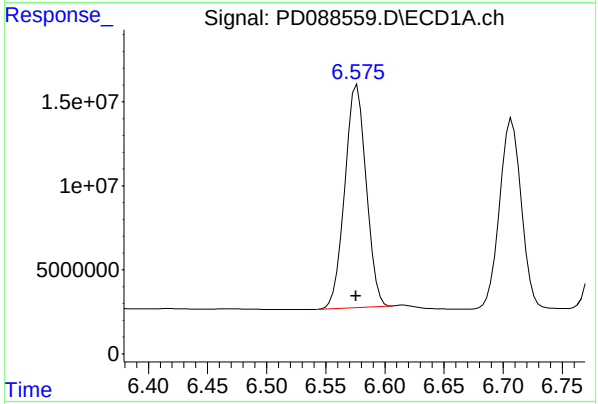
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



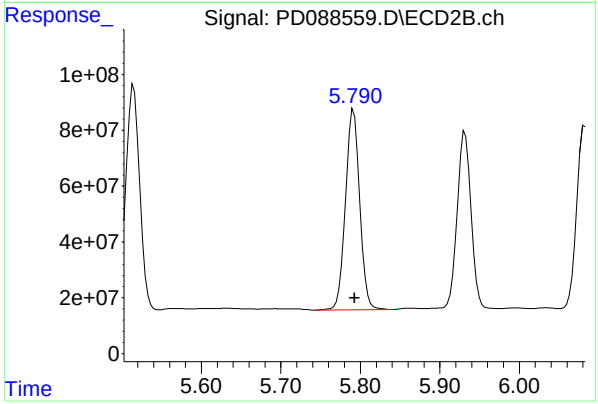
#13 Dieldrin

R.T.: 5.515 min
Delta R.T.: -0.002 min
Response: 976001368
Conc: 48.96 ng/ml



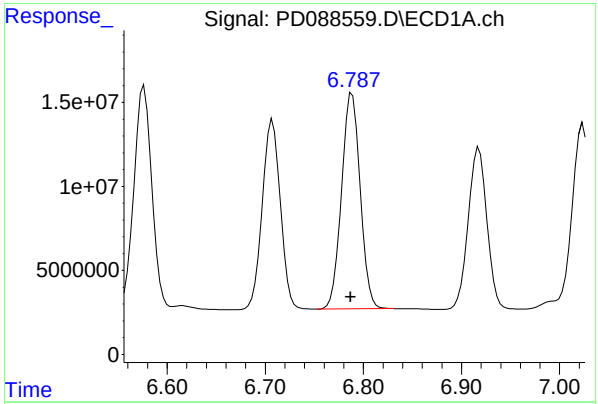
#14 Endrin

R.T.: 6.577 min
Delta R.T.: 0.000 min
Response: 166532304
Conc: 55.84 ng/ml



#14 Endrin

R.T.: 5.791 min
Delta R.T.: -0.001 min
Response: 893167082
Conc: 49.07 ng/ml



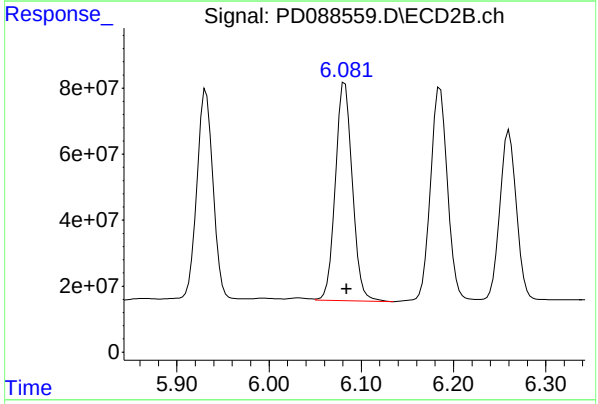
#15 Endosulfan II

R.T.: 6.789 min
Delta R.T.: 0.002 min
Response: 169664931
Conc: 54.27 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MS

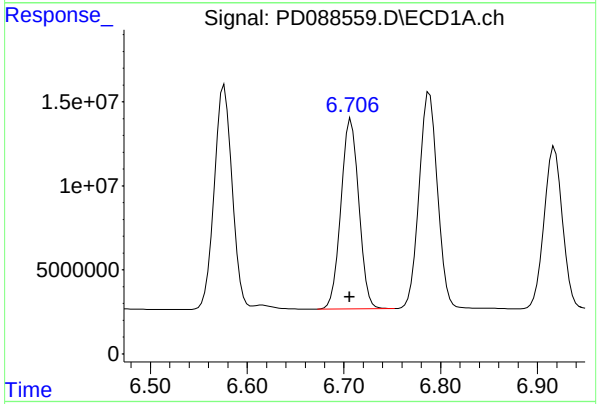
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



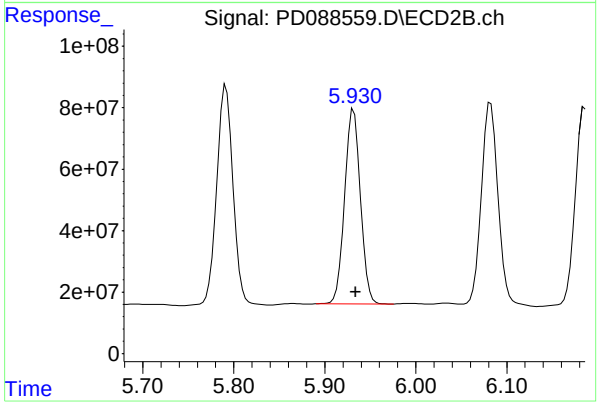
#15 Endosulfan II

R.T.: 6.082 min
Delta R.T.: -0.002 min
Response: 843479461
Conc: 48.14 ng/ml



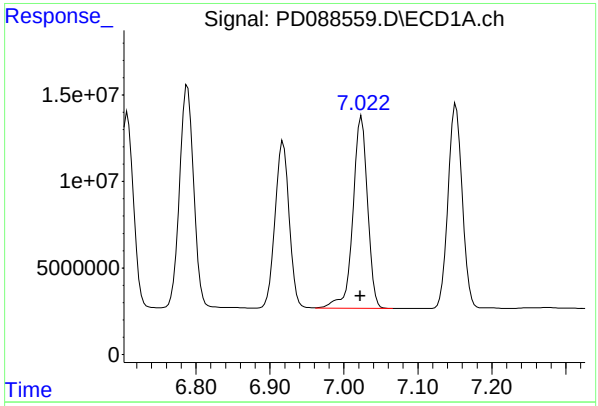
#16 4,4'-DDD

R.T.: 6.708 min
Delta R.T.: 0.002 min
Response: 144569372
Conc: 57.48 ng/ml



#16 4,4'-DDD

R.T.: 5.932 min
Delta R.T.: -0.002 min
Response: 767518922
Conc: 46.84 ng/ml



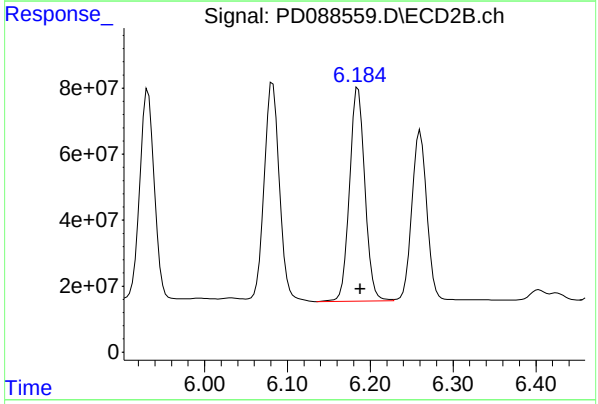
#17 4,4'-DDT

R.T.: 7.024 min
Delta R.T.: 0.002 min
Response: 152797749
Conc: 55.01 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MS

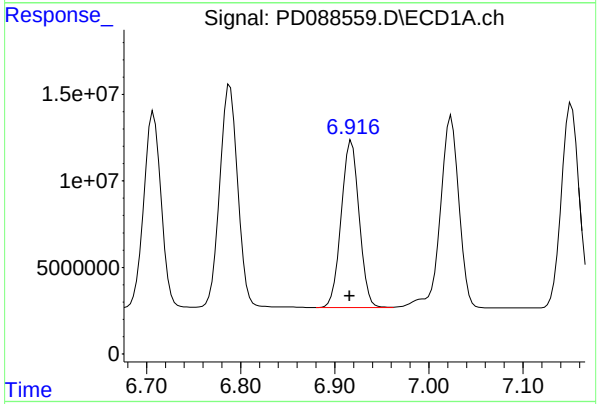
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



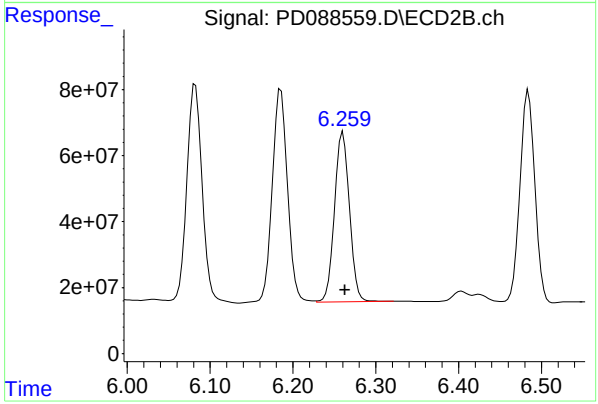
#17 4,4'-DDT

R.T.: 6.185 min
Delta R.T.: -0.003 min
Response: 833696881
Conc: 48.99 ng/ml



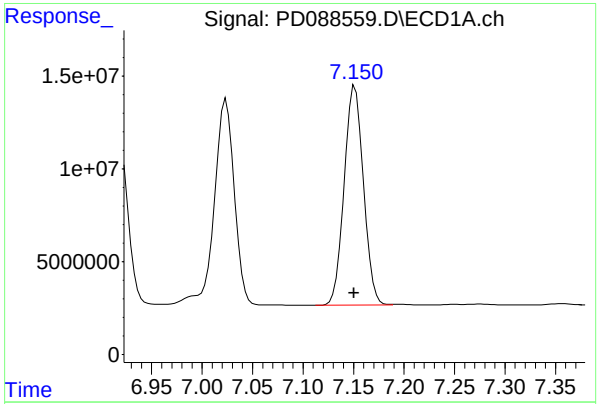
#18 Endrin aldehyde

R.T.: 6.918 min
Delta R.T.: 0.002 min
Response: 128225449
Conc: 55.56 ng/ml



#18 Endrin aldehyde

R.T.: 6.260 min
Delta R.T.: -0.002 min
Response: 645386078
Conc: 48.52 ng/ml



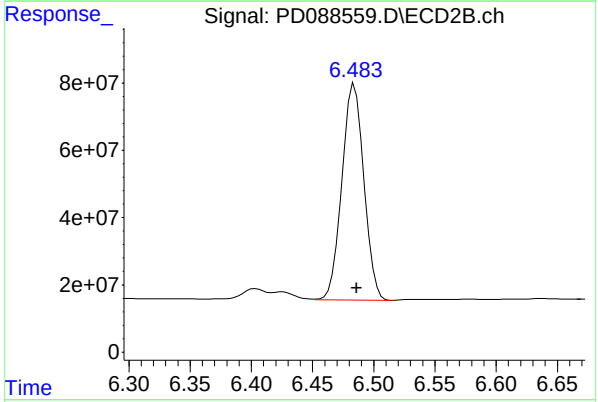
#19 Endosulfan Sulfate

R.T.: 7.151 min
Delta R.T.: 0.001 min
Response: 157256980
Conc: 54.68 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MS

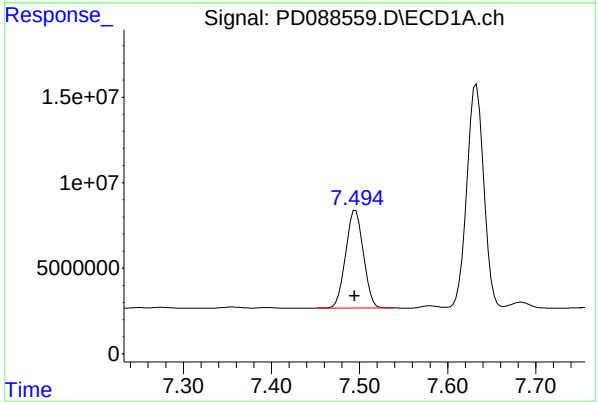
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



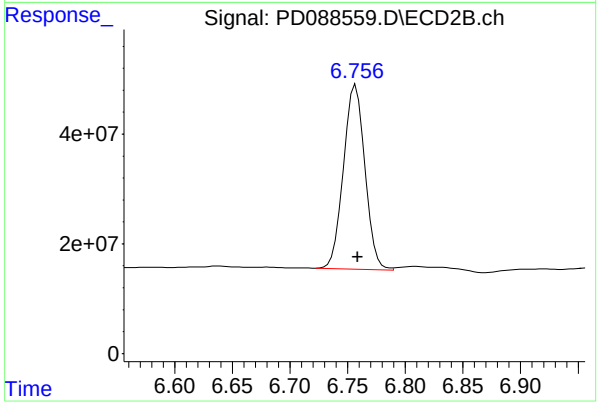
#19 Endosulfan Sulfate

R.T.: 6.484 min
Delta R.T.: -0.002 min
Response: 804395560
Conc: 46.95 ng/ml



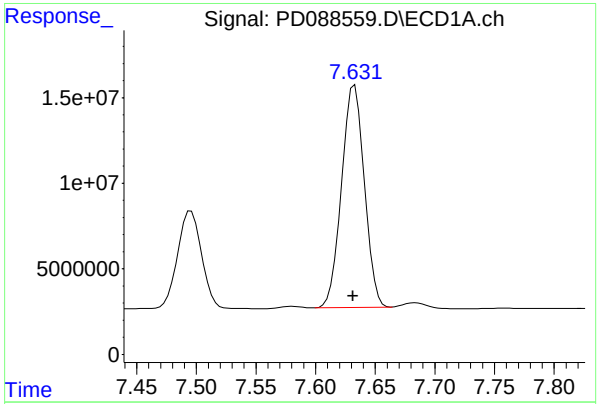
#20 Methoxychlor

R.T.: 7.496 min
Delta R.T.: 0.000 min
Response: 79835270
Conc: 53.24 ng/ml



#20 Methoxychlor

R.T.: 6.757 min
Delta R.T.: -0.002 min
Response: 434195480
Conc: 47.60 ng/ml



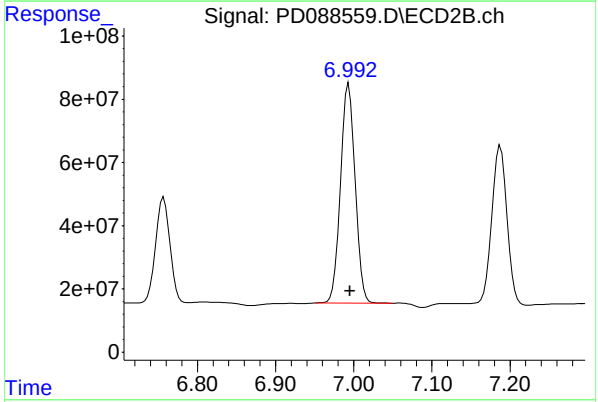
#21 Endrin ketone

R.T.: 7.633 min
Delta R.T.: 0.001 min
Response: 172848714
Conc: 56.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MS

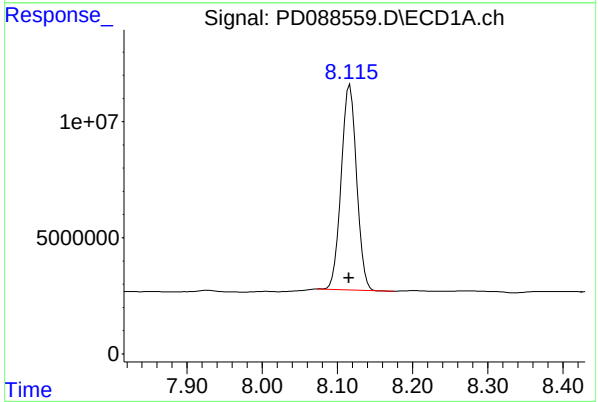
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



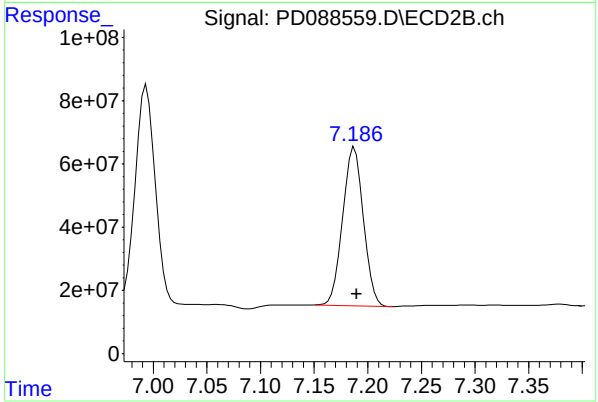
#21 Endrin ketone

R.T.: 6.994 min
Delta R.T.: -0.002 min
Response: 904730667
Conc: 48.37 ng/ml



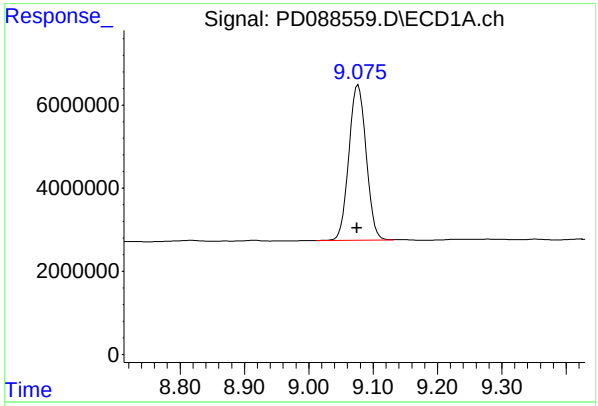
#22 Mirex

R.T.: 8.117 min
Delta R.T.: 0.001 min
Response: 125744874
Conc: 53.55 ng/ml



#22 Mirex

R.T.: 7.188 min
Delta R.T.: -0.002 min
Response: 675692352
Conc: 45.59 ng/ml



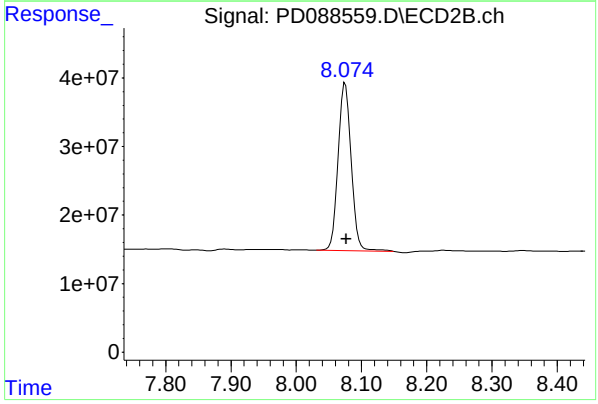
#28 Decachlorobiphenyl

R.T.: 9.077 min
Delta R.T.: 0.002 mi
Response: 69954709
Conc: 21.15 ng/m

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MS

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.002 min
Response: 340947377
Conc: 18.45 ng/ml

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-PCS-TC-33-050725MSD	SDG No.:	Q1984
Lab Sample ID:	Q1984-01MSD	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	95.1 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088560.D	1	05/13/25 08:30	05/15/25 13:05	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
319-84-6	alpha-BHC	0.020		0.00014	0.00035	0.0018	mg/Kg
319-85-7	beta-BHC	0.020		0.00019	0.00087	0.0018	mg/Kg
319-86-8	delta-BHC	0.020		0.00041	0.00087	0.0018	mg/Kg
58-89-9	gamma-BHC (Lindane)	0.020		0.00015	0.00035	0.0018	mg/Kg
76-44-8	Heptachlor	0.021		0.00013	0.00035	0.0018	mg/Kg
309-00-2	Aldrin	0.020		0.00013	0.00035	0.0018	mg/Kg
1024-57-3	Heptachlor epoxide	0.020		0.00020	0.00087	0.0018	mg/Kg
959-98-8	Endosulfan I	0.020		0.00015	0.00035	0.0018	mg/Kg
60-57-1	Dieldrin	0.020		0.00015	0.00035	0.0018	mg/Kg
72-55-9	4,4-DDE	0.019		0.00015	0.00035	0.0018	mg/Kg
72-20-8	Endrin	0.020		0.00015	0.00035	0.0018	mg/Kg
33213-65-9	Endosulfan II	0.019		0.00030	0.00087	0.0018	mg/Kg
72-54-8	4,4-DDD	0.020		0.00016	0.00035	0.0018	mg/Kg
1031-07-8	Endosulfan Sulfate	0.019		0.00014	0.00035	0.0018	mg/Kg
50-29-3	4,4-DDT	0.019		0.00015	0.00035	0.0018	mg/Kg
72-43-5	Methoxychlor	0.019		0.00039	0.00087	0.0018	mg/Kg
53494-70-5	Endrin ketone	0.020		0.00020	0.00087	0.0018	mg/Kg
7421-93-4	Endrin aldehyde	0.020		0.00039	0.00087	0.0018	mg/Kg
5103-71-9	alpha-Chlordane	0.020		0.00013	0.00035	0.0018	mg/Kg
5103-74-2	gamma-Chlordane	0.020		0.00016	0.00035	0.0018	mg/Kg
8001-35-2	Toxaphene	0.018	U	0.0057	0.018	0.035	mg/Kg
SURROGATES							
2051-24-3	Decachlorobiphenyl	21.2		55 - 130		106%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.4		42 - 129		107%	SPK: 20

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-PCS-TC-33-050725MSD	SDG No.:	Q1984
Lab Sample ID:	Q1984-01MSD	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	95.1 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088560.D	1	05/13/25 08:30	05/15/25 13:05	PB167959

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088560.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 13:05
Operator : AR\AJ
Sample : Q1984-01MSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:18:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
1)	SA	Tetrachlo...	3.551	2.882	42713352	306.3E6	21.385	20.946
28)	SA	Decachlor...	9.076	8.074	70211275	348.9E6	21.224	18.880
		Target Compounds						
2)	A	alpha-BHC	4.000	3.395	245.5E6	1160.4E6	56.936	50.758
3)	MA	gamma-BHC...	4.331	3.731	242.7E6	1059.7E6	57.961	49.200
4)	MA	Heptachlor	4.931	4.085	238.9E6	1091.4E6	59.160	51.002
5)	MB	Aldrin	5.273	4.370	230.1E6	1039.5E6	58.268	49.969
6)	B	beta-BHC	4.516	4.025	90626662	471.3E6	55.826	50.924m
7)	B	delta-BHC	4.765	4.263	235.8E6	1068.5E6	57.162	50.254
8)	B	Heptachlo...	5.692	4.874	201.8E6	936.3E6	56.477	49.556
9)	A	Endosulfan I	6.076	5.249	192.9E6	893.5E6	57.109	49.602
10)	B	gamma-Chl...	5.947	5.127	204.9E6	1005.2E6	56.566	49.527
11)	B	alpha-Chl...	6.029	5.192	205.3E6	971.4E6	56.866	49.555
12)	B	4,4'-DDE	6.198	5.377	183.2E6	973.8E6	55.551	49.445
13)	MA	Dieldrin	6.349	5.514	206.1E6	991.8E6	57.747	49.759
14)	MA	Endrin	6.576	5.791	168.4E6	904.9E6	56.457	49.711
15)	B	Endosulfa...	6.788	6.082	171.1E6	839.9E6	54.742	47.936
16)	A	4,4'-DDD	6.706	5.932	145.9E6	783.4E6	58.021	47.808
17)	MA	4,4'-DDT	7.023	6.185	154.1E6	829.9E6	55.472	48.773
18)	B	Endrin al...	6.916	6.261	129.0E6	647.3E6	55.900	48.667
19)	B	Endosulfa...	7.151	6.484	159.4E6	826.0E6	55.441	48.209
20)	A	Methoxychlor	7.494	6.757	80457383	437.0E6	53.655	47.911
21)	B	Endrin ke...	7.631	6.993	173.7E6	917.4E6	56.270	49.050
22)		Mirex	8.115	7.187	125.8E6	690.2E6	53.561	46.572

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

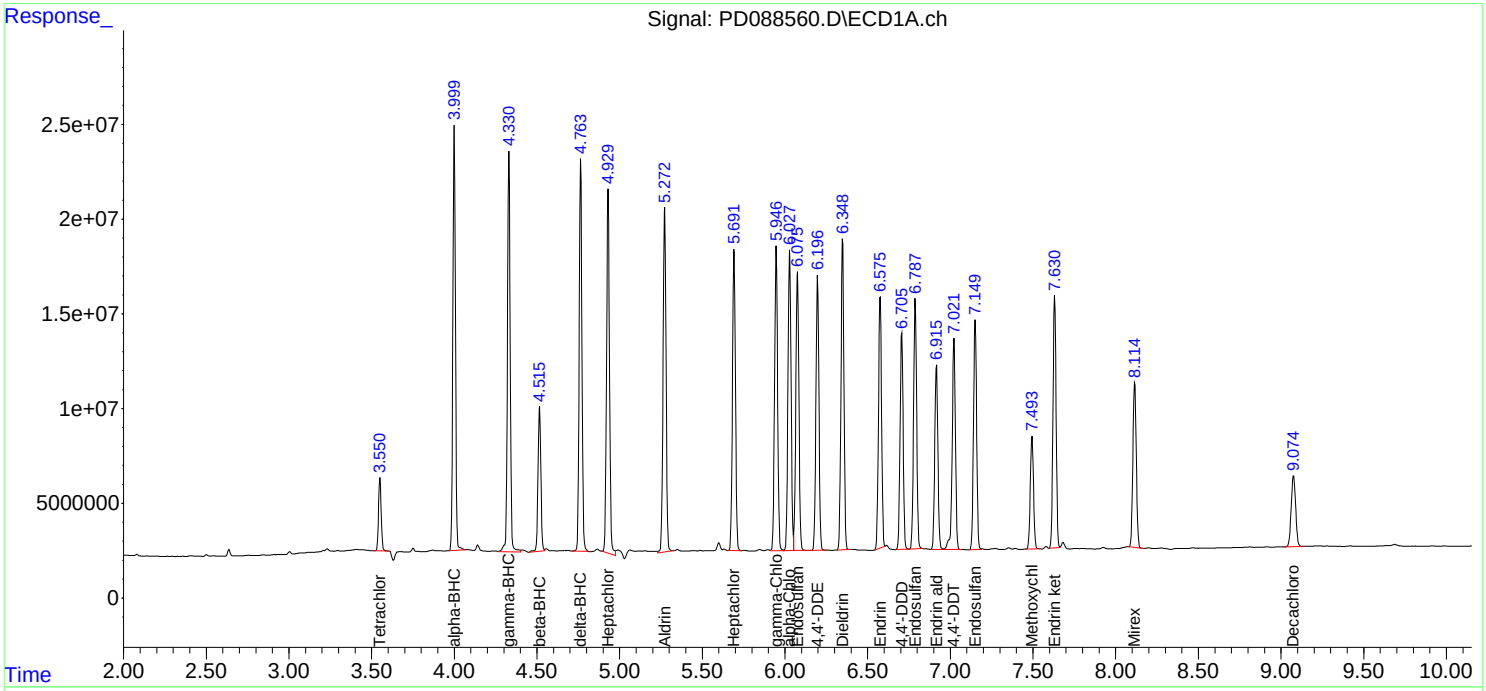
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088560.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 13:05
Operator : AR\AJ
Sample : Q1984-01MSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

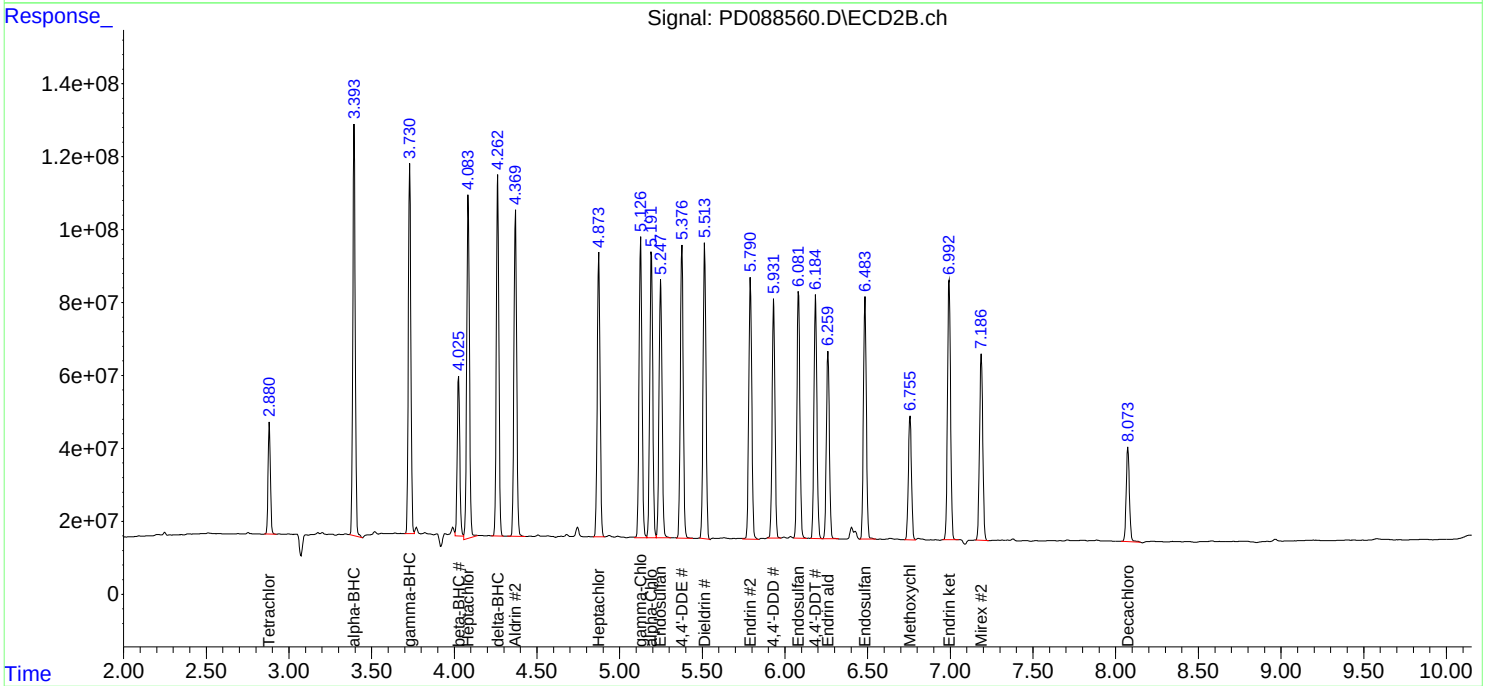
Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MSD

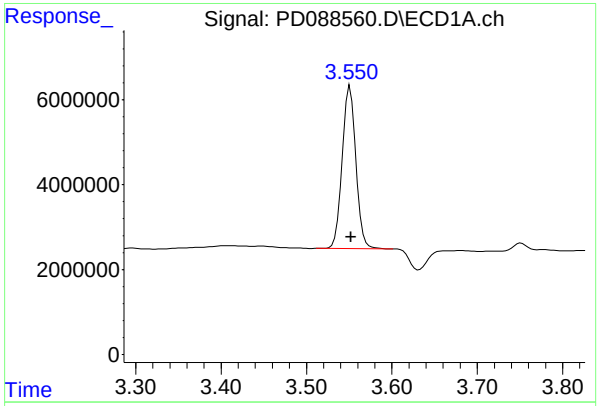
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:18:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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







#1 Tetrachloro-m-xylene

R.T.: 3.551 min
Delta R.T.: -0.001 min
Response: 42713352
Conc: 21.38 ng/ml

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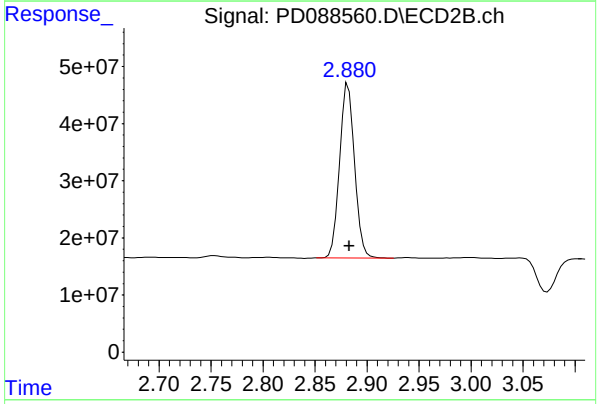
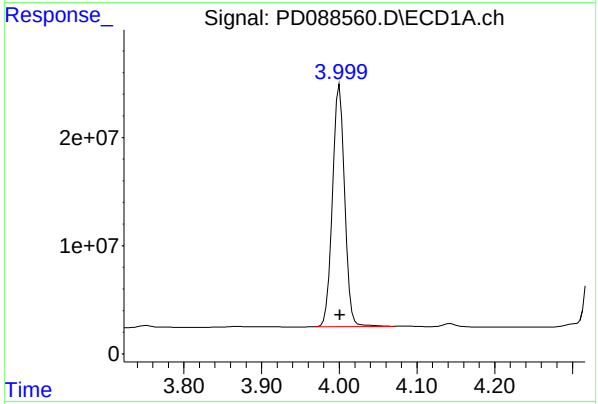


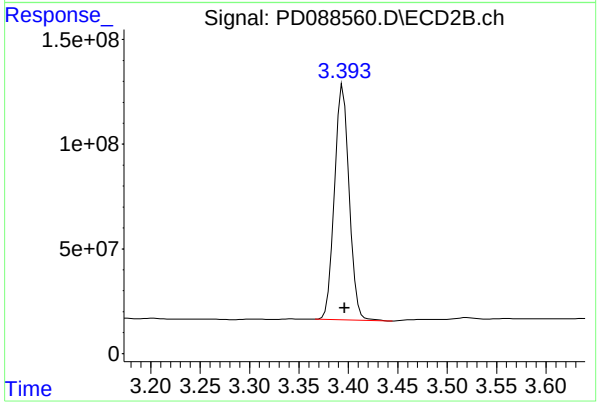
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: -0.001 min
Response: 306268196
Conc: 20.95 ng/ml



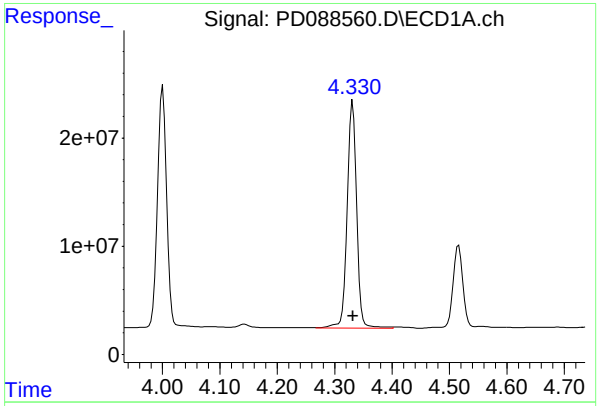
#2 alpha-BHC

R.T.: 4.000 min
Delta R.T.: 0.000 min
Response: 245506242
Conc: 56.94 ng/ml



#2 alpha-BHC

R.T.: 3.395 min
Delta R.T.: -0.002 min
Response: 1160413093
Conc: 50.76 ng/ml



#3 gamma-BHC (Lindane)

R.T.: 4.331 min
Delta R.T.: 0.000 min
Response: 242710287
Conc: 57.96 ng/ml

Instrument :
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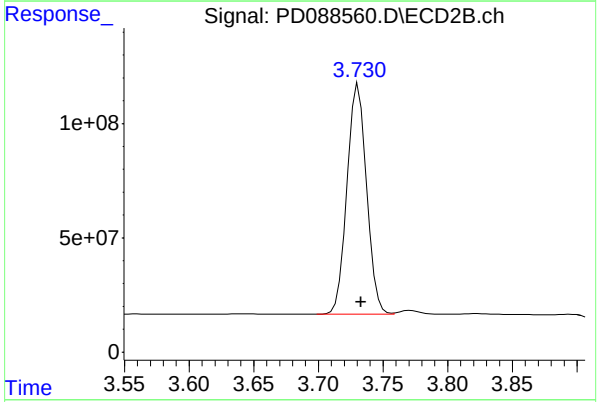
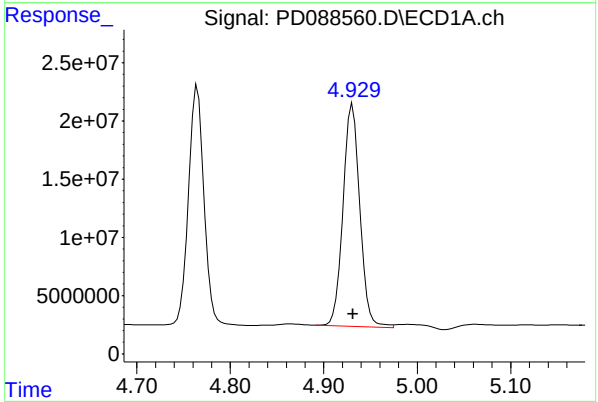


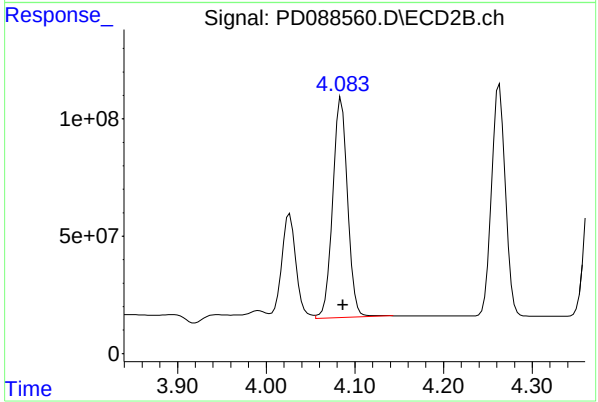
#3 gamma-BHC (Lindane)

R.T.: 3.731 min
Delta R.T.: -0.002 min
Response: 1059706012
Conc: 49.20 ng/ml



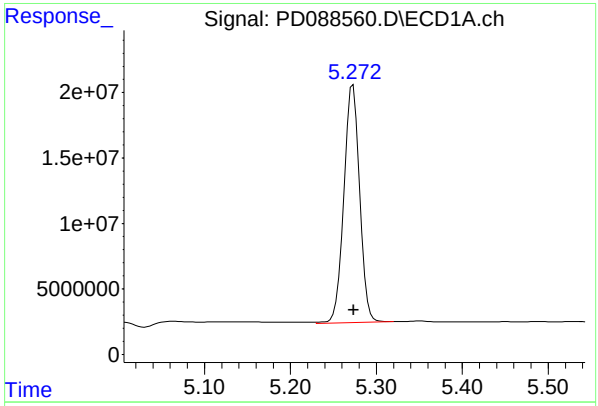
#4 Heptachlor

R.T.: 4.931 min
Delta R.T.: 0.000 min
Response: 238946266
Conc: 59.16 ng/ml



#4 Heptachlor

R.T.: 4.085 min
Delta R.T.: -0.002 min
Response: 1091357414
Conc: 51.00 ng/ml



#5 Aldrin

R.T.: 5.273 min
Delta R.T.: 0.000 mi
Response: 230132772
Conc: 58.27 ng/m

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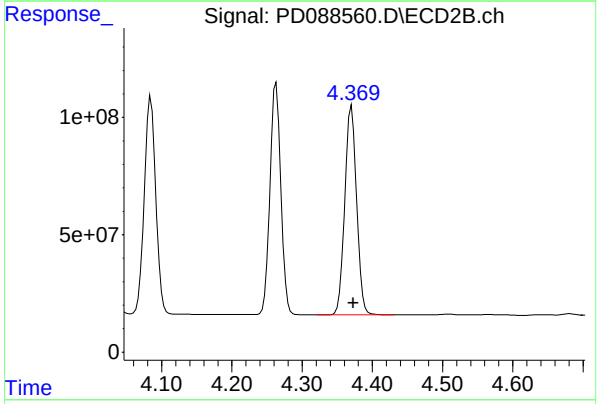
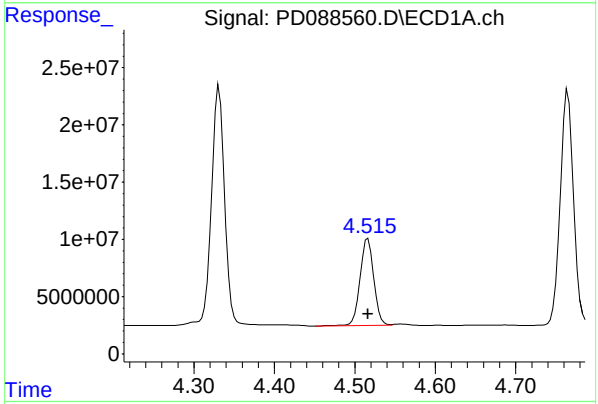


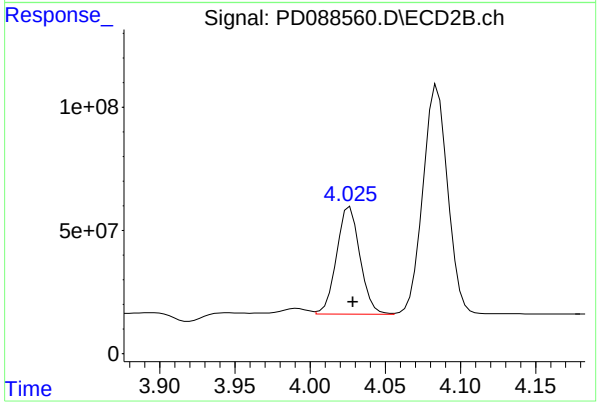
#5 Aldrin

R.T.: 4.370 min
Delta R.T.: -0.002 min
Response: 1039504056
Conc: 49.97 ng/ml



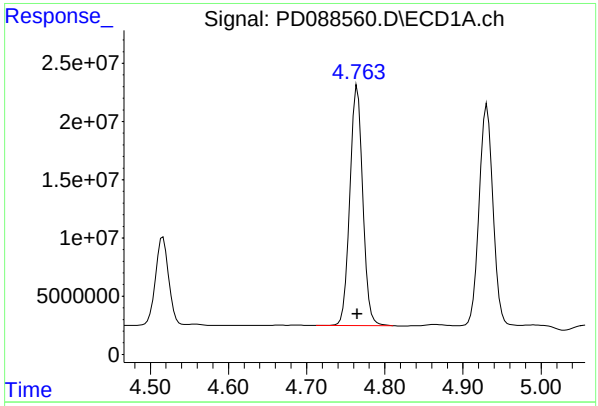
#6 beta-BHC

R.T.: 4.516 min
Delta R.T.: 0.000 min
Response: 90626662
Conc: 55.83 ng/ml



#6 beta-BHC

R.T.: 4.025 min
Delta R.T.: -0.003 min
Response: 471257347
Conc: 50.92 ng/ml m



#7 delta-BHC

R.T.: 4.765 min
Delta R.T.: 0.000 min
Response: 235790004
Conc: 57.16 ng/ml

Instrument :
ECD_D
ClientSampleId :
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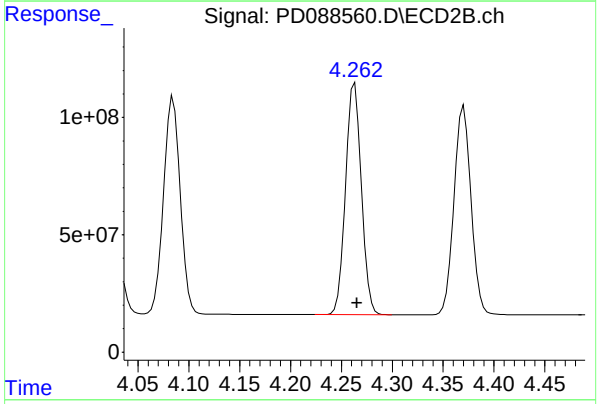
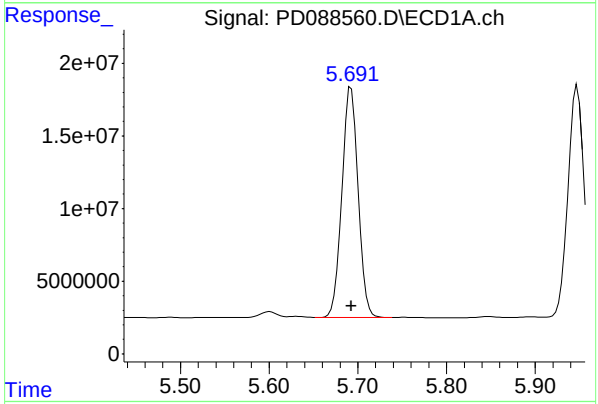


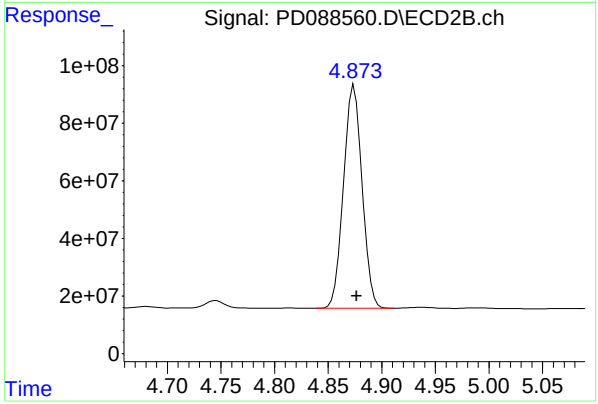
#7 delta-BHC

R.T.: 4.263 min
Delta R.T.: -0.002 min
Response: 1068484970
Conc: 50.25 ng/ml



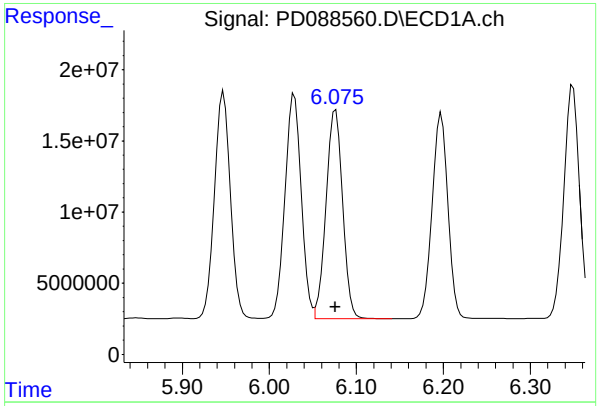
#8 Heptachlor epoxide

R.T.: 5.692 min
Delta R.T.: 0.000 min
Response: 201847477
Conc: 56.48 ng/ml



#8 Heptachlor epoxide

R.T.: 4.874 min
Delta R.T.: -0.002 min
Response: 936317917
Conc: 49.56 ng/ml



#9 Endosulfan I

R.T.: 6.076 min
Delta R.T.: 0.000 min
Response: 192865689
Conc: 57.11 ng/ml

Instrument :
ECD_D
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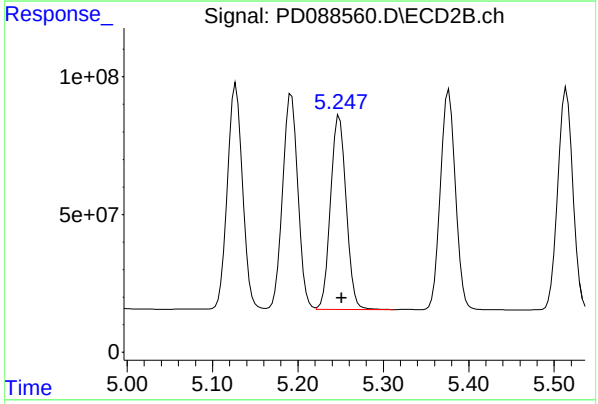
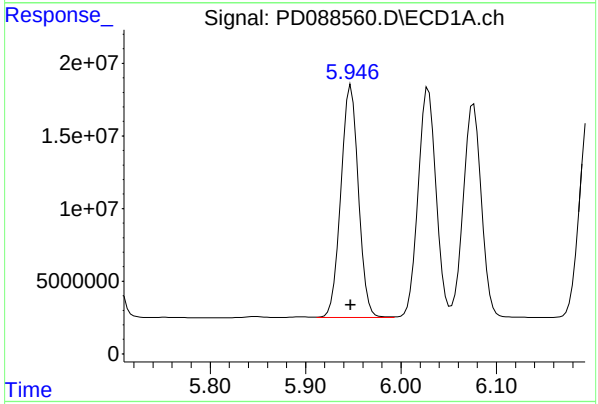


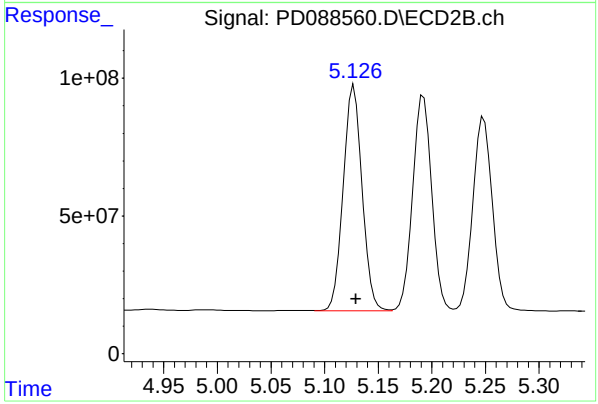
#9 Endosulfan I

R.T.: 5.249 min
Delta R.T.: -0.003 min
Response: 893453300
Conc: 49.60 ng/ml



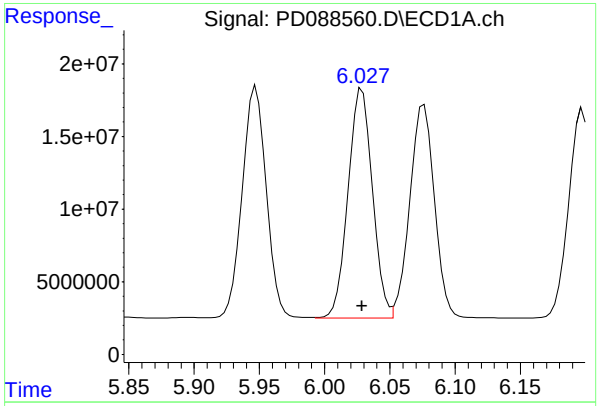
#10 gamma-Chlordane

R.T.: 5.947 min
Delta R.T.: 0.000 min
Response: 204884312
Conc: 56.57 ng/ml



#10 gamma-Chlordane

R.T.: 5.127 min
Delta R.T.: -0.002 min
Response: 1005201488
Conc: 49.53 ng/ml



#11 alpha-Chlordane

R.T.: 6.029 min
Delta R.T.: 0.000 min
Response: 205260866
Conc: 56.87 ng/ml

Instrument :
ECD_D
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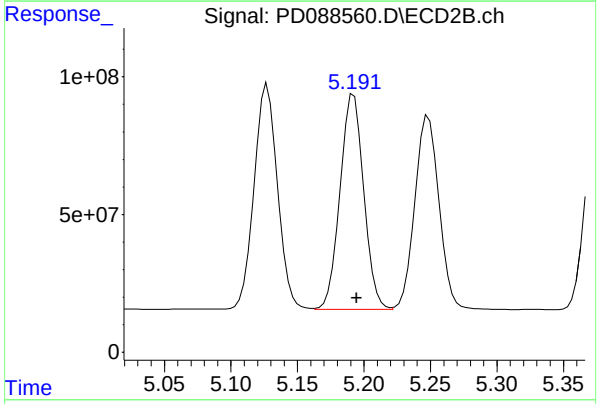
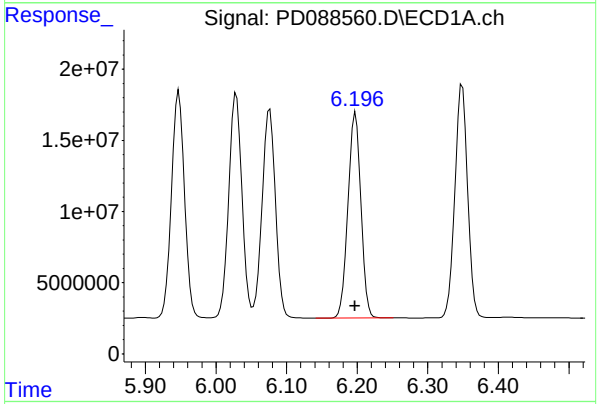


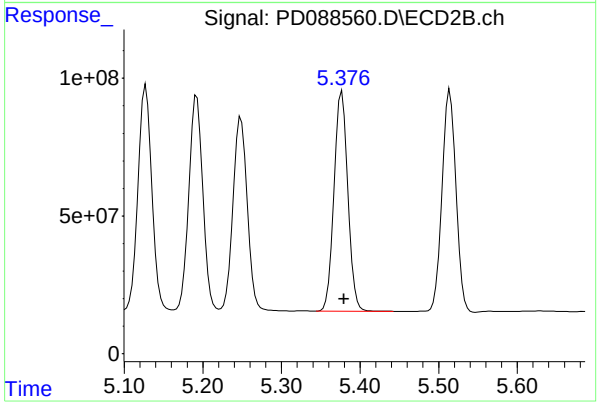
#11 alpha-Chlordane

R.T.: 5.192 min
Delta R.T.: -0.002 min
Response: 971413231
Conc: 49.55 ng/ml



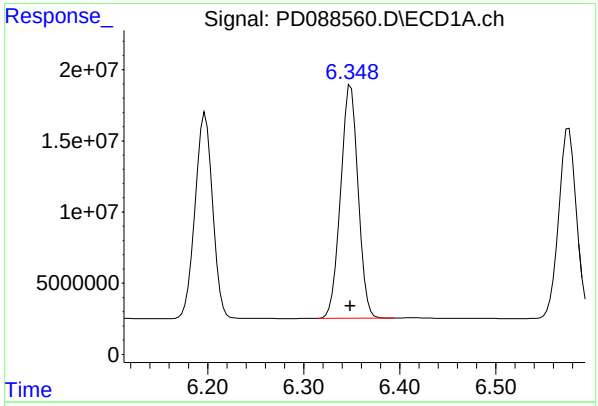
#12 4,4'-DDE

R.T.: 6.198 min
Delta R.T.: 0.000 min
Response: 183222754
Conc: 55.55 ng/ml



#12 4,4'-DDE

R.T.: 5.377 min
Delta R.T.: -0.003 min
Response: 973767171
Conc: 49.44 ng/ml



#13 Dieldrin

R.T.: 6.349 min
Delta R.T.: 0.000 min
Response: 206069511
Conc: 57.75 ng/ml

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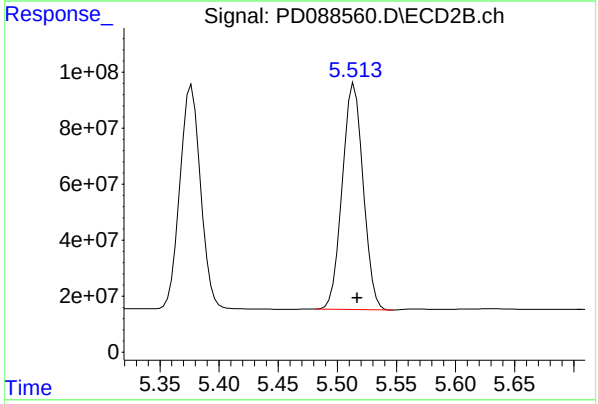
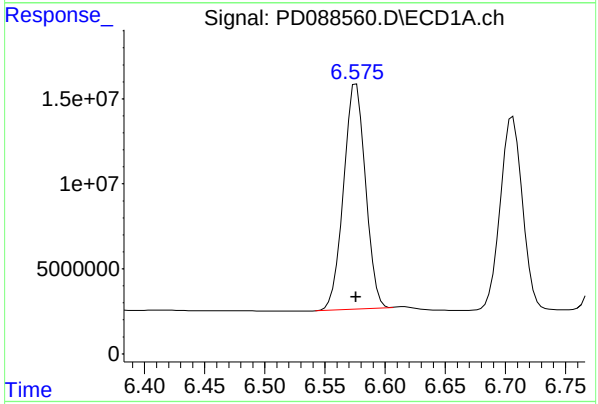


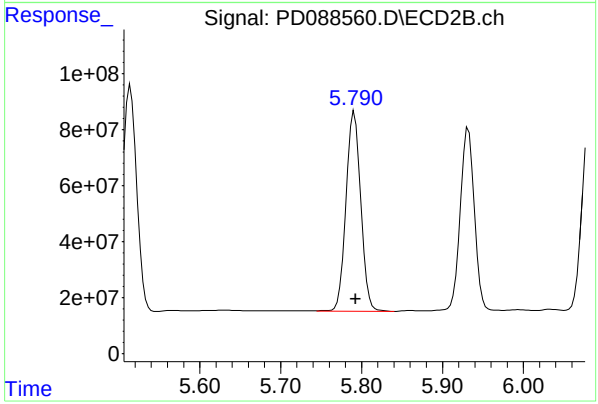
#13 Dieldrin

R.T.: 5.514 min
Delta R.T.: -0.003 min
Response: 991835662
Conc: 49.76 ng/ml



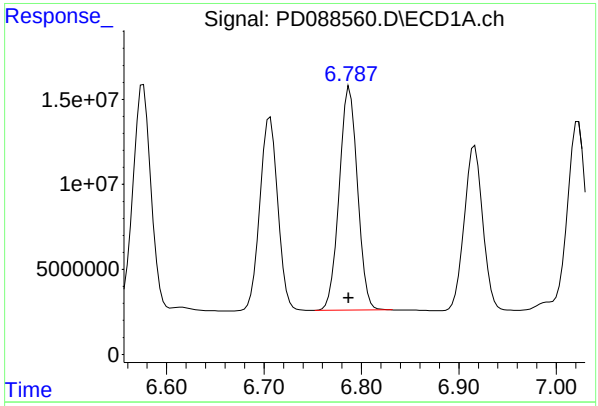
#14 Endrin

R.T.: 6.576 min
Delta R.T.: 0.000 min
Response: 168387394
Conc: 56.46 ng/ml



#14 Endrin

R.T.: 5.791 min
Delta R.T.: -0.002 min
Response: 904860069
Conc: 49.71 ng/ml



#15 Endosulfan II

R.T.: 6.788 min
Delta R.T.: 0.000 min
Response: 171135248
Conc: 54.74 ng/ml

Instrument :
ECD_D
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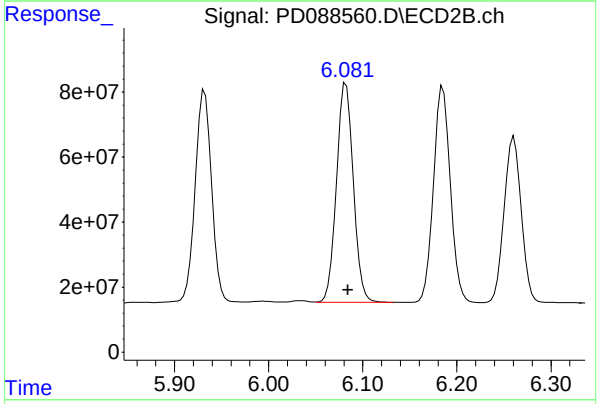
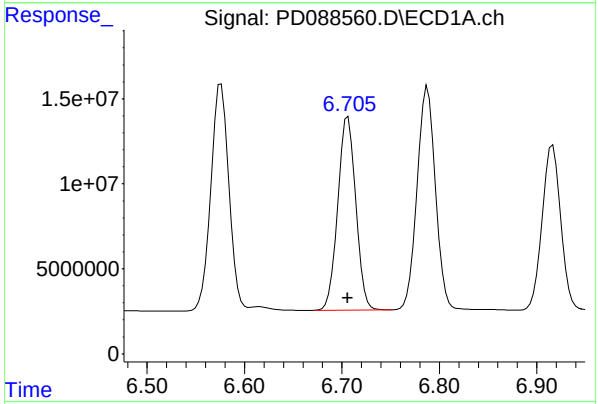


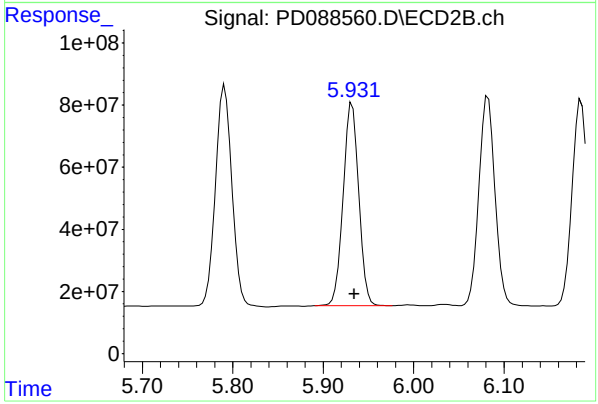
#15 Endosulfan II

R.T.: 6.082 min
Delta R.T.: -0.002 min
Response: 839910715
Conc: 47.94 ng/ml



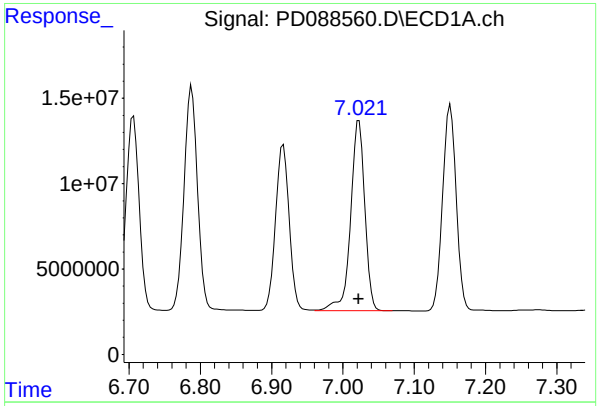
#16 4,4'-DDD

R.T.: 6.706 min
Delta R.T.: 0.000 min
Response: 145921532
Conc: 58.02 ng/ml



#16 4,4'-DDD

R.T.: 5.932 min
Delta R.T.: -0.002 min
Response: 783395286
Conc: 47.81 ng/ml



#17 4,4'-DDT

R.T.: 7.023 min
Delta R.T.: 0.000 min
Response: 154075882
Conc: 55.47 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MSD

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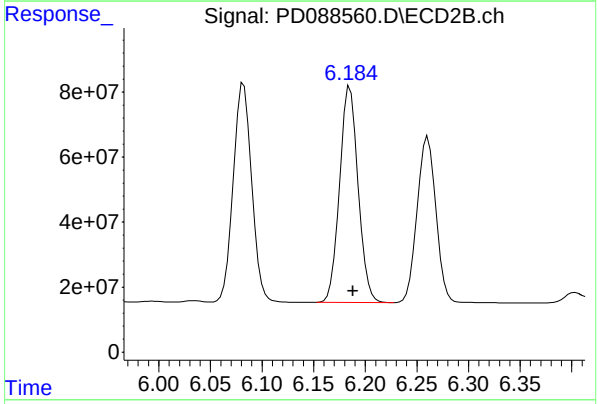
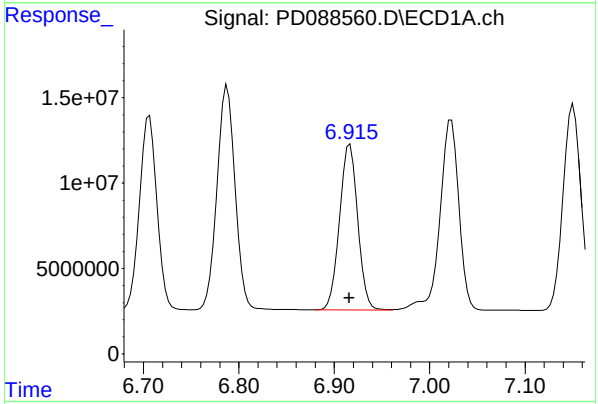


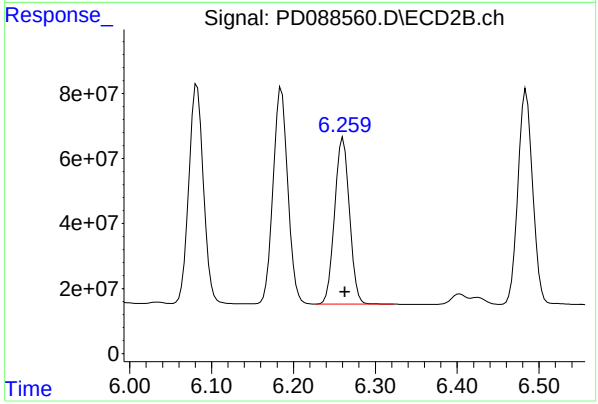
#17 4,4'-DDT

R.T.: 6.185 min
Delta R.T.: -0.003 min
Response: 829942809
Conc: 48.77 ng/ml



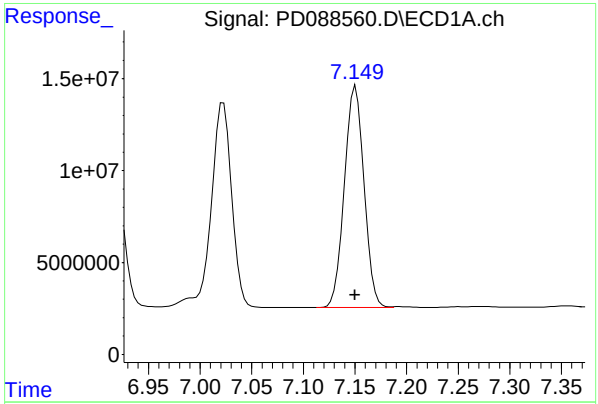
#18 Endrin aldehyde

R.T.: 6.916 min
Delta R.T.: 0.000 min
Response: 129017565
Conc: 55.90 ng/ml



#18 Endrin aldehyde

R.T.: 6.261 min
Delta R.T.: -0.002 min
Response: 647311804
Conc: 48.67 ng/ml



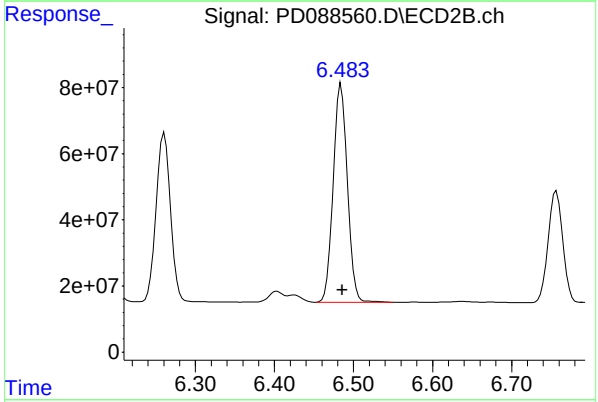
#19 Endosulfan Sulfate

R.T.: 7.151 min
Delta R.T.: 0.000 min
Response: 159438229
Conc: 55.44 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MSD

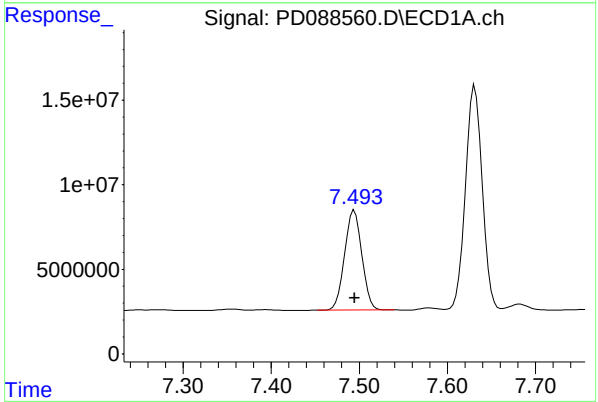
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



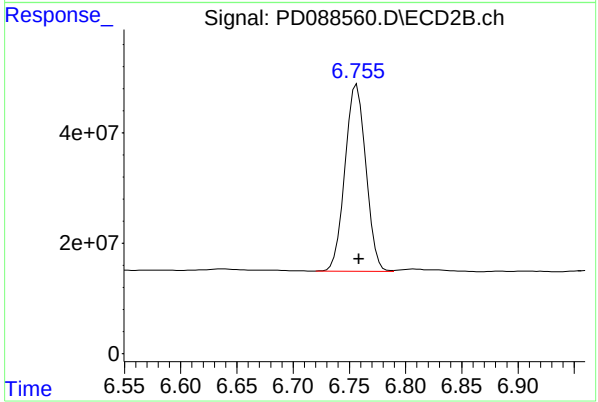
#19 Endosulfan Sulfate

R.T.: 6.484 min
Delta R.T.: -0.002 min
Response: 825981631
Conc: 48.21 ng/ml



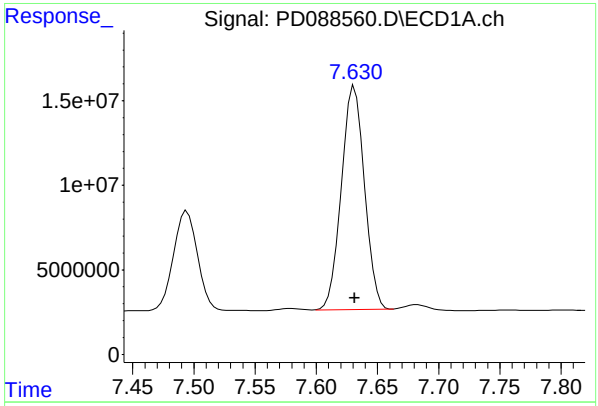
#20 Methoxychlor

R.T.: 7.494 min
Delta R.T.: 0.000 min
Response: 80457383
Conc: 53.65 ng/ml



#20 Methoxychlor

R.T.: 6.757 min
Delta R.T.: -0.002 min
Response: 437003384
Conc: 47.91 ng/ml



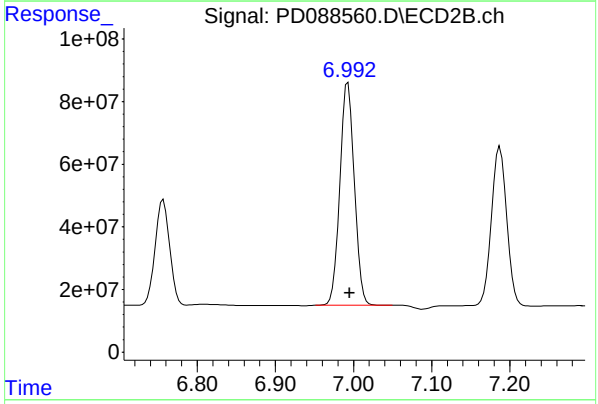
#21 Endrin ketone

R.T.: 7.631 min
Delta R.T.: 0.000 min
Response: 173681582
Conc: 56.27 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MSD

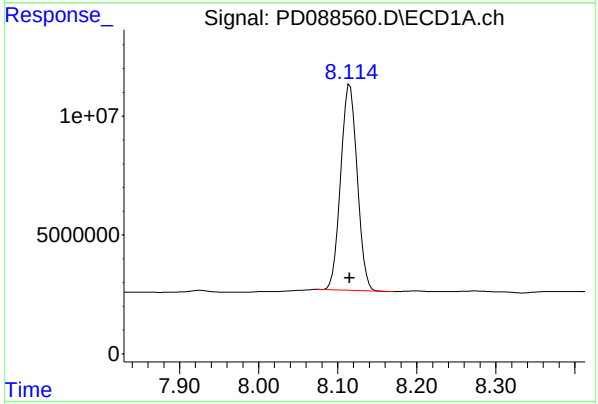
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



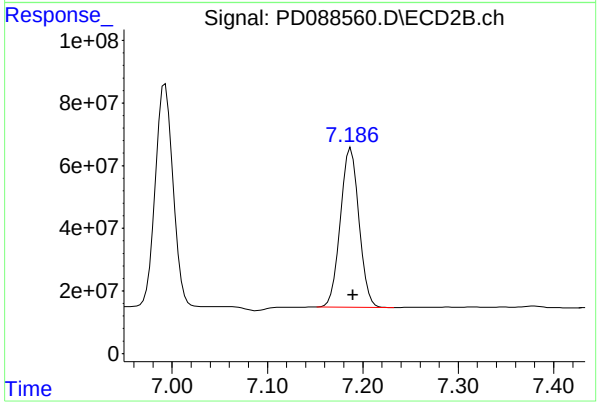
#21 Endrin ketone

R.T.: 6.993 min
Delta R.T.: -0.002 min
Response: 917441276
Conc: 49.05 ng/ml



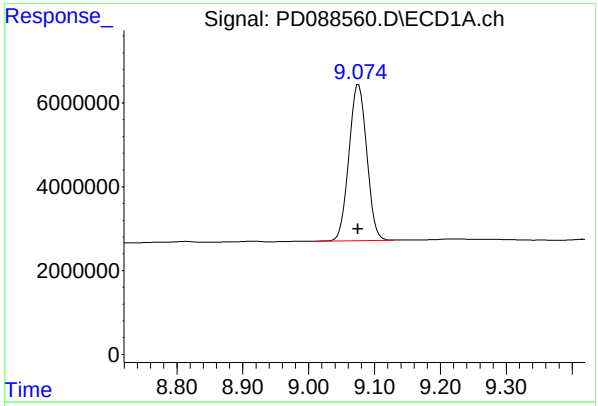
#22 Mirex

R.T.: 8.115 min
Delta R.T.: 0.000 min
Response: 125777548
Conc: 53.56 ng/ml



#22 Mirex

R.T.: 7.187 min
Delta R.T.: -0.002 min
Response: 690241204
Conc: 46.57 ng/ml



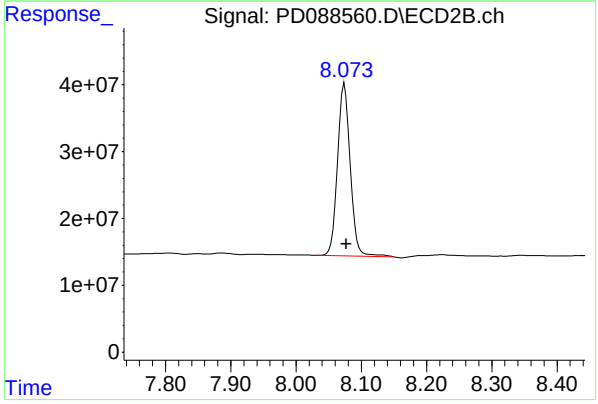
#28 Decachlorobiphenyl

R.T.: 9.076 min
Delta R.T.: 0.000 min
Response: 70211275
Conc: 21.22 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MSD

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 05/16/2025
Supervised By :mohammad ahmed 05/19/2025



#28 Decachlorobiphenyl

R.T.: 8.074 min
Delta R.T.: -0.003 min
Response: 348890009
Conc: 18.88 ng/ml

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Manual Integration Report

Sequence:	PD041825	Instrument	ECD_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PD088122.D	4,4"-DDD #2	Abdul	4/19/2025 2:06:43 PM	mohammad	4/22/2025 2:20:46	Peak Integrated by Software
PSTDICC100	PD088124.D	Heptachlor epoxide #2	Abdul	4/19/2025 2:06:47 PM	mohammad	4/22/2025 2:20:46	Peak Integrated by Software
PSTDICC005	PD088128.D	delta-BHC	Abdul	4/19/2025 2:20:23 PM	mohammad	4/22/2025 2:20:46	Peak Integrated by Software
PEM	PD088143.D	4,4"-DDD	Abdul	4/19/2025 2:07:12 PM	mohammad	4/22/2025 2:20:46	Peak Integrated by Software
PEM	PD088143.D	Endrin aldehyde	Abdul	4/19/2025 2:07:12 PM	mohammad	4/22/2025 2:20:46	Peak Integrated by Software

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Manual Integration Report

Sequence:	PD051325	Instrument	ECD_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PD088498.D	Endrin ketone	Abdul	5/14/2025 8:32:32 AM	mohammad	5/20/2025 3:33:00	Peak Integrated by Software
PSTDCCC050	PD088499.D	4,4"-DDE #2	Abdul	5/14/2025 8:32:36 AM	mohammad	5/20/2025 3:33:00	Peak Integrated by Software
PSTDCCC050	PD088499.D	Aldrin #2	Abdul	5/14/2025 8:32:36 AM	mohammad	5/20/2025 3:33:00	Peak Integrated by Software
PSTDCCC050	PD088515.D	4,4"-DDE #2	Abdul	5/14/2025 8:32:54 AM	mohammad	5/20/2025 3:33:00	Peak Integrated by Software
PSTDCCC050	PD088515.D	Aldrin #2	Abdul	5/14/2025 8:32:54 AM	mohammad	5/20/2025 3:33:00	Peak Integrated by Software
PSTDCCC050	PD088515.D	gamma-Chlordane	Abdul	5/14/2025 8:32:54 AM	mohammad	5/20/2025 3:33:00	Peak Integrated by Software
PSTDCCC050	PD088524.D	4,4"-DDE #2	Abdul	5/14/2025 8:33:05 AM	mohammad	5/20/2025 3:33:00	Peak Integrated by Software
PSTDCCC050	PD088524.D	Aldrin #2	Abdul	5/14/2025 8:33:05 AM	mohammad	5/20/2025 3:33:00	Peak Integrated by Software
PSTDCCC050	PD088524.D	gamma-Chlordane	Abdul	5/14/2025 8:33:05 AM	mohammad	5/20/2025 3:33:00	Peak Integrated by Software
PEM	PD088536.D	Endrin aldehyde	Abdul	5/14/2025 8:33:27 AM	mohammad	5/20/2025 3:33:00	Peak Integrated by Software
PSTDCCC050	PD088537.D	4,4"-DDE #2	Abdul	5/14/2025 8:33:30 AM	mohammad	5/20/2025 3:33:00	Peak Integrated by Software
PSTDCCC050	PD088537.D	Aldrin #2	Abdul	5/14/2025 8:33:30 AM	mohammad	5/20/2025 3:33:00	Peak Integrated by Software
PSTDCCC050	PD088537.D	gamma-Chlordane	Abdul	5/14/2025 8:33:30 AM	mohammad	5/20/2025 3:33:00	Peak Integrated by Software

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Manual Integration Report

Sequence:	PD051325	Instrument	ECD_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PSTDCCC050	PD088541.D	4,4"-DDE #2	Abdul	5/14/2025 8:33:35 AM	mohammad	5/20/2025 3:33:00	Peak Integrated by Software
PSTDCCC050	PD088541.D	Aldrin #2	Abdul	5/14/2025 8:33:35 AM	mohammad	5/20/2025 3:33:00	Peak Integrated by Software
PSTDCCC050	PD088541.D	gamma-Chlordane	Abdul	5/14/2025 8:33:35 AM	mohammad	5/20/2025 3:33:00	Peak Integrated by Software

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Manual Integration Report

Sequence:	pd051525	Instrument	ECD_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PD088552.D	4,4"-DDD	Abdul	5/16/2025 10:09:09 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
PEM	PD088552.D	Endrin aldehyde	Abdul	5/16/2025 10:09:09 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
PEM	PD088552.D	Endrin aldehyde #2	Abdul	5/16/2025 10:09:09 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
PEM	PD088552.D	Endrin ketone	Abdul	5/16/2025 10:09:09 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
PEM	PD088552.D	Endrin ketone #2	Abdul	5/16/2025 10:09:09 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
PTOXCCC500	PD088555.D	Toxaphene-1 #2	Abdul	5/16/2025 10:09:12 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-01MS	PD088559.D	Aldrin	Abdul	5/16/2025 10:09:21 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-01MS	PD088559.D	beta-BHC #2	Abdul	5/16/2025 10:09:21 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-01MSD	PD088560.D	beta-BHC #2	Abdul	5/16/2025 10:09:25 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-07	PD088563.D	4,4"-DDE	Abdul	5/16/2025 10:09:29 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-07	PD088563.D	4,4"-DDE #2	Abdul	5/16/2025 10:09:29 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-07	PD088563.D	alpha-Chlordane	Abdul	5/16/2025 10:09:29 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-07	PD088563.D	alpha-Chlordane #2	Abdul	5/16/2025 10:09:29 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software

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Manual Integration Report

Sequence:	pd051525	Instrument	ECD_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1984-07	PD088563.D	Decachlorobiphenyl	Abdul	5/16/2025 10:09:29 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-07	PD088563.D	Decachlorobiphenyl #2	Abdul	5/16/2025 10:09:29 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-07	PD088563.D	Dieldrin	Abdul	5/16/2025 10:09:29 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-07	PD088563.D	Dieldrin #2	Abdul	5/16/2025 10:09:29 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-07	PD088563.D	Endrin	Abdul	5/16/2025 10:09:29 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-07	PD088563.D	Endrin #2	Abdul	5/16/2025 10:09:29 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-07	PD088563.D	gamma-Chlordane	Abdul	5/16/2025 10:09:29 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-07	PD088563.D	gamma-Chlordane #2	Abdul	5/16/2025 10:09:29 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-09	PD088564.D	4,4"-DDE	Abdul	5/16/2025 10:09:38 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-09	PD088564.D	4,4"-DDE #2	Abdul	5/16/2025 10:09:38 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-09	PD088564.D	alpha-Chlordane	Abdul	5/16/2025 10:09:38 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-09	PD088564.D	alpha-Chlordane #2	Abdul	5/16/2025 10:09:38 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-09	PD088564.D	Decachlorobiphenyl	Abdul	5/16/2025 10:09:38 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software

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Manual Integration Report

Sequence:	pd051525	Instrument	ECD_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1984-09	PD088564.D	Decachlorobiphenyl #2	Abdul	5/16/2025 10:09:38 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-09	PD088564.D	Dieldrin	Abdul	5/16/2025 10:09:38 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-09	PD088564.D	Dieldrin #2	Abdul	5/16/2025 10:09:38 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-09	PD088564.D	gamma-Chlordane	Abdul	5/16/2025 10:09:38 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-09	PD088564.D	gamma-Chlordane #2	Abdul	5/16/2025 10:09:38 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-09	PD088564.D	Tetrachloro-m-xylene #2	Abdul	5/16/2025 10:09:38 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
I.BLK	PD088565.D	Decachlorobiphenyl	Abdul	5/16/2025 10:09:43 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
PSTDCCC050	PD088566.D	4,4"-DDD	Abdul	5/16/2025 10:09:47 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
PSTDCCC050	PD088566.D	4,4"-DDE #2	Abdul	5/16/2025 10:09:47 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
PSTDCCC050	PD088566.D	Decachlorobiphenyl	Abdul	5/16/2025 10:09:47 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
PSTDCCC050	PD088566.D	gamma-Chlordane	Abdul	5/16/2025 10:09:47 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
PTOXCCC500	PD088568.D	Toxaphene-1 #2	Abdul	5/16/2025 10:09:51 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
PTOXCCC500	PD088568.D	Toxaphene-5	Abdul	5/16/2025 10:09:51 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software

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Manual Integration Report

Sequence:	pd051525	Instrument	ECD_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PTOXCCC500	PD088568.D	Toxaphene-5 #2	Abdul	5/16/2025 10:09:51 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-11	PD088569.D	4,4"-DDE	Abdul	5/16/2025 10:09:56 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-11	PD088569.D	4,4"-DDE #2	Abdul	5/16/2025 10:09:56 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-11	PD088569.D	alpha-Chlordane	Abdul	5/16/2025 10:09:56 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-11	PD088569.D	alpha-Chlordane #2	Abdul	5/16/2025 10:09:56 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-13	PD088570.D	4,4"-DDE	Abdul	5/16/2025 10:10:00 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-13	PD088570.D	alpha-Chlordane #2	Abdul	5/16/2025 10:10:00 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-13	PD088570.D	Decachlorobiphenyl	Abdul	5/16/2025 10:10:00 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-13	PD088570.D	Decachlorobiphenyl #2	Abdul	5/16/2025 10:10:00 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-13	PD088570.D	Dieldrin	Abdul	5/16/2025 10:10:00 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-13	PD088570.D	Dieldrin #2	Abdul	5/16/2025 10:10:00 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-13	PD088570.D	Endrin #2	Abdul	5/16/2025 10:10:00 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-13	PD088570.D	gamma-Chlordane #2	Abdul	5/16/2025 10:10:00 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software

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Manual Integration Report

Sequence:	pd051525	Instrument	ECD_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1984-15	PD088571.D	4,4"-DDE	Abdul	5/16/2025 10:10:04 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-15	PD088571.D	alpha-Chlordane #2	Abdul	5/16/2025 10:10:04 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-15	PD088571.D	Decachlorobiphenyl	Abdul	5/16/2025 10:10:04 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-15	PD088571.D	Decachlorobiphenyl #2	Abdul	5/16/2025 10:10:04 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-15	PD088571.D	Dieldrin	Abdul	5/16/2025 10:10:04 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-15	PD088571.D	gamma-Chlordane	Abdul	5/16/2025 10:10:04 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
Q1984-15	PD088571.D	gamma-Chlordane #2	Abdul	5/16/2025 10:10:04 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
I.BLK	PD088572.D	Decachlorobiphenyl	Abdul	5/16/2025 10:10:09 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software
PSTDCCC050	PD088573.D	Methoxychlor #2	Abdul	5/16/2025 10:10:13 AM	mohammad	5/20/2025 2:54:45	Peak Integrated by Software

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Manual Integration Report

Sequence:	PD051925	Instrument	ECD_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PD088584.D	4,4"-DDD	Abdul	5/20/2025 9:03:15 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PEM	PD088584.D	4,4"-DDD #2	Abdul	5/20/2025 9:03:15 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PEM	PD088584.D	Endrin aldehyde	Abdul	5/20/2025 9:03:15 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PEM	PD088584.D	Endrin aldehyde #2	Abdul	5/20/2025 9:03:15 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PEM	PD088584.D	Endrin ketone	Abdul	5/20/2025 9:03:15 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PEM	PD088584.D	Endrin ketone #2	Abdul	5/20/2025 9:03:15 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PSTDICC005	PD088590.D	Heptachlor	Abdul	5/20/2025 9:03:19 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PSTDICC005	PD088590.D	Heptachlor epoxide	Abdul	5/20/2025 9:03:19 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PCHLORICV500	PD088602.D	Chlordane-1	Abdul	5/20/2025 9:03:30 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PEM	PD088605.D	4,4"-DDD	Abdul	5/20/2025 9:03:34 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PEM	PD088605.D	4,4"-DDD #2	Abdul	5/20/2025 9:03:34 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PEM	PD088605.D	Endrin aldehyde #2	Abdul	5/20/2025 9:03:34 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PEM	PD088605.D	Endrin ketone	Abdul	5/20/2025 9:03:34 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software

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Manual Integration Report

Sequence:	PD051925	Instrument	ECD_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PD088605.D	Endrin ketone #2	Abdul	5/20/2025 9:03:34 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
Q1984-09RE	PD088609.D	4,4"-DDE	Abdul	5/20/2025 9:03:38 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
Q1984-09RE	PD088609.D	4,4"-DDE #2	Abdul	5/20/2025 9:03:38 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
Q1984-09RE	PD088609.D	alpha-Chlordane #2	Abdul	5/20/2025 9:03:38 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
Q1984-09RE	PD088609.D	Decachlorobiphenyl	Abdul	5/20/2025 9:03:38 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
Q1984-09RE	PD088609.D	Decachlorobiphenyl #2	Abdul	5/20/2025 9:03:38 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
Q1984-09RE	PD088609.D	Dieldrin	Abdul	5/20/2025 9:03:38 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
Q1984-09RE	PD088609.D	Dieldrin #2	Abdul	5/20/2025 9:03:38 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
Q1984-09RE	PD088609.D	gamma-Chlordane #2	Abdul	5/20/2025 9:03:38 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
Q1984-11RE	PD088610.D	4,4"-DDE #2	Abdul	5/20/2025 9:03:42 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
Q1984-11RE	PD088610.D	alpha-Chlordane #2	Abdul	5/20/2025 9:03:42 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
Q1984-11RE	PD088610.D	Decachlorobiphenyl	Abdul	5/20/2025 9:03:42 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
Q1984-13RE	PD088611.D	alpha-Chlordane #2	Abdul	5/20/2025 9:03:46 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software

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Manual Integration Report

Sequence:	PD051925	Instrument	ECD_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1984-13RE	PD088611.D	Decachlorobiphenyl	Abdul	5/20/2025 9:03:46 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
Q1984-13RE	PD088611.D	Decachlorobiphenyl #2	Abdul	5/20/2025 9:03:46 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
Q1984-13RE	PD088611.D	Dieldrin #2	Abdul	5/20/2025 9:03:46 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
Q1984-13RE	PD088611.D	Endrin #2	Abdul	5/20/2025 9:03:46 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
Q1984-13RE	PD088611.D	gamma-Chlordane	Abdul	5/20/2025 9:03:46 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
Q1984-13RE	PD088611.D	gamma-Chlordane #2	Abdul	5/20/2025 9:03:46 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
Q1984-15RE	PD088612.D	4,4"-DDE #2	Abdul	5/20/2025 9:03:50 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
Q1984-15RE	PD088612.D	alpha-Chlordane #2	Abdul	5/20/2025 9:03:50 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
Q1984-15RE	PD088612.D	Decachlorobiphenyl	Abdul	5/20/2025 9:03:50 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
Q1984-15RE	PD088612.D	Decachlorobiphenyl #2	Abdul	5/20/2025 9:03:50 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
Q1984-15RE	PD088612.D	gamma-Chlordane #2	Abdul	5/20/2025 9:03:50 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
I.BLK	PD088613.D	Decachlorobiphenyl	Abdul	5/20/2025 9:03:54 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software
PSTDCCC050	PD088614.D	4,4"-DDE #2	Abdul	5/20/2025 9:03:58 AM	mohammad	5/21/2025 5:34:48	Peak Integrated by Software

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Manual Integration Report

Sequence:	PD051925	Instrument	ECD_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD041825

Review By	Abdul	Review On	4/19/2025 2:07:56 PM		
Supervise By	mohammad	Supervise On	4/22/2025 2:20:46 AM		
SubDirectory	PD041825	HP Acquire Method		HP Processing Method	pd041825 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PD088120.D	18 Apr 2025 13:02	AR\AJ	Ok
2	I.BLK	PD088121.D	18 Apr 2025 13:15	AR\AJ	Ok
3	PEM	PD088122.D	18 Apr 2025 13:29	AR\AJ	Ok,M
4	RESCHK	PD088123.D	18 Apr 2025 13:43	AR\AJ	Ok
5	PSTDICC100	PD088124.D	18 Apr 2025 13:56	AR\AJ	Ok,M
6	PSTDICC075	PD088125.D	18 Apr 2025 14:10	AR\AJ	Ok
7	PSTDICC050	PD088126.D	18 Apr 2025 14:24	AR\AJ	Ok
8	PSTDICC025	PD088127.D	18 Apr 2025 14:37	AR\AJ	Ok
9	PSTDICC005	PD088128.D	18 Apr 2025 14:51	AR\AJ	Ok,M
10	PCHLORICC1000	PD088129.D	18 Apr 2025 15:05	AR\AJ	Ok
11	PCHLORICC750	PD088130.D	18 Apr 2025 15:18	AR\AJ	Ok
12	PCHLORICC500	PD088131.D	18 Apr 2025 15:32	AR\AJ	Ok
13	PCHLORICC250	PD088132.D	18 Apr 2025 15:46	AR\AJ	Ok
14	PCHLORICC050	PD088133.D	18 Apr 2025 15:59	AR\AJ	Ok,M
15	PTOXICC1000	PD088134.D	18 Apr 2025 16:13	AR\AJ	Ok,M
16	PTOXICC750	PD088135.D	18 Apr 2025 16:27	AR\AJ	Ok
17	PTOXICC500	PD088136.D	18 Apr 2025 16:40	AR\AJ	Ok
18	PTOXICC250	PD088137.D	18 Apr 2025 16:54	AR\AJ	Ok,M
19	PTOXICC100	PD088138.D	18 Apr 2025 17:08	AR\AJ	Ok,M
20	PSTDICV050	PD088139.D	18 Apr 2025 17:21	AR\AJ	Ok
21	PCHLORICV500	PD088140.D	18 Apr 2025 17:35	AR\AJ	Ok

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD041825

Review By	Abdul	Review On	4/19/2025 2:07:56 PM		
Supervise By	mohammad	Supervise On	4/22/2025 2:20:46 AM		
SubDirectory	PD041825	HP Acquire Method		HP Processing Method	pd041825 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PTOXICV500	PD088141.D	18 Apr 2025 17:49	AR\AJ	Ok
23	I.BLK	PD088142.D	18 Apr 2025 18:02	AR\AJ	Ok
24	PEM	PD088143.D	18 Apr 2025 18:16	AR\AJ	Ok,M
25	PSTDCCC050	PD088144.D	18 Apr 2025 18:30	AR\AJ	Not Ok

M : Manual Integration

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD051325

Review By	Abdul	Review On	5/14/2025 8:34:03 AM		
Supervise By	mohammad	Supervise On	5/20/2025 3:33:00 AM		
SubDirectory	PD051325	HP Acquire Method		HP Processing Method	pd041825 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PD088496.D	13 May 2025 09:14	AR\AJ	Ok
2	I.BLK	PD088497.D	13 May 2025 09:28	AR\AJ	Ok
3	PEM	PD088498.D	13 May 2025 09:41	AR\AJ	Ok,M
4	PSTDCCC050	PD088499.D	13 May 2025 09:55	AR\AJ	Ok,M
5	PB167950BL	PD088500.D	13 May 2025 10:08	AR\AJ	Not Ok
6	Q1982-01	PD088501.D	13 May 2025 10:22	AR\AJ	Ok
7	Q1982-02	PD088502.D	13 May 2025 10:35	AR\AJ	Ok,M
8	Q1982-04	PD088503.D	13 May 2025 10:49	AR\AJ	Ok,M
9	Q1982-05	PD088504.D	13 May 2025 11:02	AR\AJ	Ok
10	Q1982-07	PD088505.D	13 May 2025 11:16	AR\AJ	Ok,M
11	PB167925BL	PD088506.D	13 May 2025 11:29	AR\AJ	Ok
12	Q1983-01DL	PD088507.D	13 May 2025 11:43	AR\AJ	Ok,M
13	PB167969BL	PD088508.D	13 May 2025 11:57	AR\AJ	Ok
14	PB167969BS	PD088509.D	13 May 2025 12:10	AR\AJ	Ok
15	PB167851TB	PD088510.D	13 May 2025 12:24	AR\AJ	Ok
16	Q1956-05	PD088511.D	13 May 2025 12:37	AR\AJ	Ok
17	Q1956-05MS	PD088512.D	13 May 2025 12:51	AR\AJ	Ok,M
18	Q1956-05MSD	PD088513.D	13 May 2025 13:04	AR\AJ	Ok
19	I.BLK	PD088514.D	13 May 2025 13:18	AR\AJ	Ok
20	PSTDCCC050	PD088515.D	13 May 2025 14:22	AR\AJ	Ok,M
21	Q2007-06	PD088516.D	13 May 2025 14:35	AR\AJ	Ok

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD051325

Review By	Abdul	Review On	5/14/2025 8:34:03 AM		
Supervise By	mohammad	Supervise On	5/20/2025 3:33:00 AM		
SubDirectory	PD051325	HP Acquire Method		HP Processing Method	pd041825 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2007-12	PD088517.D	13 May 2025 14:49	AR\AJ	Ok,M
23	Q2007-18	PD088518.D	13 May 2025 15:03	AR\AJ	Ok
24	Q2007-24	PD088519.D	13 May 2025 15:16	AR\AJ	Ok
25	Q2007-30	PD088520.D	13 May 2025 15:30	AR\AJ	Ok
26	Q2007-36	PD088521.D	13 May 2025 15:44	AR\AJ	Ok,M
27	PB167925BS	PD088522.D	13 May 2025 16:16	AR\AJ	Ok
28	I.BLK	PD088523.D	13 May 2025 16:35	AR\AJ	Ok
29	PSTDCCC050	PD088524.D	13 May 2025 16:48	AR\AJ	Ok,M
30	PB167959BL	PD088525.D	13 May 2025 17:02	AR\AJ	Ok
31	PB167959BS	PD088526.D	13 May 2025 17:15	AR\AJ	Ok
32	Q1982-08	PD088527.D	13 May 2025 17:29	AR\AJ	Ok,M
33	Q2010-01	PD088528.D	13 May 2025 17:43	AR\AJ	Ok,M
34	Q2010-02	PD088529.D	13 May 2025 17:56	AR\AJ	Ok
35	Q2010-03	PD088530.D	13 May 2025 18:10	AR\AJ	Ok
36	Q2010-04	PD088531.D	13 May 2025 18:24	AR\AJ	Ok
37	Q2014-01	PD088532.D	13 May 2025 18:38	AR\AJ	Ok,M
38	Q2014-03	PD088533.D	13 May 2025 18:51	AR\AJ	Ok,M
39	Q2014-05	PD088534.D	13 May 2025 19:05	AR\AJ	Not Ok
40	I.BLK	PD088535.D	13 May 2025 19:18	AR\AJ	Ok
41	PEM	PD088536.D	13 May 2025 19:32	AR\AJ	Ok,M
42	PSTDCCC050	PD088537.D	13 May 2025 19:46	AR\AJ	Ok,M
43	Q2017-01	PD088538.D	13 May 2025 19:59	AR\AJ	Ok
44	Q2017-05	PD088539.D	13 May 2025 20:13	AR\AJ	Ok

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD051325

Review By	Abdul	Review On	5/14/2025 8:34:03 AM		
Supervise By	mohammad	Supervise On	5/20/2025 3:33:00 AM		
SubDirectory	PD051325	HP Acquire Method		HP Processing Method	pd041825 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	I.BLK	PD088540.D	13 May 2025 20:27	AR\AJ	Ok
46	PSTDCCC050	PD088541.D	13 May 2025 20:40	AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD051525

Review By	Abdul	Review On	5/16/2025 10:10:37 AM		
Supervise By	mohammad	Supervise On	5/20/2025 2:54:45 AM		
SubDirectory	PD051525	HP Acquire Method		HP Processing Method	pd041825 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PD088550.D	15 May 2025 08:34	AR\AJ	Ok
2	I.BLK	PD088551.D	15 May 2025 08:47	AR\AJ	Ok
3	PEM	PD088552.D	15 May 2025 09:18	AR\AJ	Ok,M
4	PSTDCCC050	PD088553.D	15 May 2025 09:32	AR\AJ	Ok
5	PCHLORCCC500	PD088554.D	15 May 2025 09:49	AR\AJ	Ok
6	PTOXCCC500	PD088555.D	15 May 2025 11:06	AR\AJ	Ok,M
7	PB167959BS	PD088556.D	15 May 2025 11:22	AR\AJ	Ok
8	PB167959BS	PD088557.D	15 May 2025 12:17	AR\AJ	Not Ok
9	Q1984-01	PD088558.D	15 May 2025 12:38	AR\AJ	Ok
10	Q1984-01MS	PD088559.D	15 May 2025 12:52	AR\AJ	Ok,M
11	Q1984-01MSD	PD088560.D	15 May 2025 13:05	AR\AJ	Ok,M
12	Q1984-03	PD088561.D	15 May 2025 13:19	AR\AJ	Ok
13	Q1984-05	PD088562.D	15 May 2025 13:33	AR\AJ	Ok
14	Q1984-07	PD088563.D	15 May 2025 13:46	AR\AJ	Ok,M
15	Q1984-09	PD088564.D	15 May 2025 14:00	AR\AJ	ReRun
16	I.BLK	PD088565.D	15 May 2025 14:14	AR\AJ	Ok,M
17	PSTDCCC050	PD088566.D	15 May 2025 15:11	AR\AJ	Ok,M
18	PCHLORCCC500	PD088567.D	15 May 2025 15:59	AR\AJ	Ok
19	PTOXCCC500	PD088568.D	15 May 2025 17:54	AR\AJ	Not Ok
20	Q1984-11	PD088569.D	15 May 2025 18:08	AR\AJ	ReRun
21	Q1984-13	PD088570.D	15 May 2025 18:22	AR\AJ	ReRun

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD051525

Review By	Abdul	Review On	5/16/2025 10:10:37 AM		
Supervise By	mohammad	Supervise On	5/20/2025 2:54:45 AM		
SubDirectory	PD051525	HP Acquire Method		HP Processing Method	pd041825 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1984-15	PD088571.D	15 May 2025 18:35	AR\AJ	ReRun
23	I.BLK	PD088572.D	15 May 2025 18:49	AR\AJ	Ok,M
24	PSTDCCC050	PD088573.D	15 May 2025 19:02	AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD051925

Review By	Abdul	Review On	5/20/2025 9:04:34 AM		
Supervise By	mohammad	Supervise On	5/21/2025 5:34:48 AM		
SubDirectory	PD051925	HP Acquire Method		HP Processing Method	pd0519 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PD088582.D	19 May 2025 10:36	AR\AJ	Ok
2	I.BLK	PD088583.D	19 May 2025 10:50	AR\AJ	Ok
3	PEM	PD088584.D	19 May 2025 11:04	AR\AJ	Ok,M
4	RESCHK	PD088585.D	19 May 2025 11:17	AR\AJ	Ok
5	PSTDICC100	PD088586.D	19 May 2025 11:31	AR\AJ	Ok
6	PSTDICC075	PD088587.D	19 May 2025 11:45	AR\AJ	Ok
7	PSTDICC050	PD088588.D	19 May 2025 11:58	AR\AJ	Ok
8	PSTDICC025	PD088589.D	19 May 2025 12:12	AR\AJ	Ok
9	PSTDICC005	PD088590.D	19 May 2025 12:25	AR\AJ	Ok,M
10	PCHLORICC1000	PD088591.D	19 May 2025 12:39	AR\AJ	Ok
11	PCHLORICC750	PD088592.D	19 May 2025 12:52	AR\AJ	Ok
12	PCHLORICC500	PD088593.D	19 May 2025 13:06	AR\AJ	Ok
13	PCHLORICC250	PD088594.D	19 May 2025 13:19	AR\AJ	Ok
14	PCHLORICC050	PD088595.D	19 May 2025 13:33	AR\AJ	Ok
15	PTOXICC1000	PD088596.D	19 May 2025 13:47	AR\AJ	Ok
16	PTOXICC750	PD088597.D	19 May 2025 14:00	AR\AJ	Ok
17	PTOXICC500	PD088598.D	19 May 2025 14:14	AR\AJ	Ok
18	PTOXICC250	PD088599.D	19 May 2025 14:27	AR\AJ	Ok,M
19	PTOXICC100	PD088600.D	19 May 2025 14:41	AR\AJ	Ok
20	PSTDICV050	PD088601.D	19 May 2025 14:55	AR\AJ	Ok
21	PCHLORICV500	PD088602.D	19 May 2025 15:08	AR\AJ	Ok,M

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD051925

Review By	Abdul	Review On	5/20/2025 9:04:34 AM		
Supervise By	mohammad	Supervise On	5/21/2025 5:34:48 AM		
SubDirectory	PD051925	HP Acquire Method		HP Processing Method	pd0519 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PTOXICV500	PD088603.D	19 May 2025 15:22	AR\AJ	Ok
23	I.BLK	PD088604.D	19 May 2025 15:35	AR\AJ	Ok
24	PEM	PD088605.D	19 May 2025 15:49	AR\AJ	Ok,M
25	PSTDCCC050	PD088606.D	19 May 2025 16:02	AR\AJ	Ok
26	PTOXCCC500	PD088607.D	19 May 2025 16:16	AR\AJ	Ok
27	PB167959BS	PD088608.D	19 May 2025 16:32	AR\AJ	Ok
28	Q1984-09RE	PD088609.D	19 May 2025 16:50	AR\AJ	Confirms
29	Q1984-11RE	PD088610.D	19 May 2025 17:04	AR\AJ	Confirms
30	Q1984-13RE	PD088611.D	19 May 2025 17:18	AR\AJ	Confirms
31	Q1984-15RE	PD088612.D	19 May 2025 17:31	AR\AJ	Confirms
32	I.BLK	PD088613.D	19 May 2025 17:45	AR\AJ	Ok,M
33	PSTDCCC050	PD088614.D	19 May 2025 18:45	AR\AJ	Ok,M
34	PTOXCCC500	PD088615.D	19 May 2025 19:32	AR\AJ	Ok
35	PB168066BL	PD088616.D	19 May 2025 20:26	AR\AJ	Ok
36	PB168066BS	PD088617.D	19 May 2025 20:40	AR\AJ	Not Ok
37	PB167994TB	PD088618.D	19 May 2025 20:54	AR\AJ	Ok
38	Q2014-05	PD088619.D	19 May 2025 21:08	AR\AJ	Not Ok
39	Q2027-03	PD088620.D	19 May 2025 21:21	AR\AJ	Ok,M
40	Q2027-03MS	PD088621.D	19 May 2025 21:35	AR\AJ	Ok,M
41	Q2027-03MSD	PD088622.D	19 May 2025 21:49	AR\AJ	Ok,M
42	Q2027-04	PD088623.D	19 May 2025 22:02	AR\AJ	Ok
43	Q2032-09	PD088624.D	19 May 2025 22:16	AR\AJ	Ok
44	I.BLK	PD088625.D	19 May 2025 22:30	AR\AJ	Ok

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Daily Analysis Runlog For Sequence/QCBatch ID # PD051925

Review By	Abdul	Review On	5/20/2025 9:04:34 AM		
Supervise By	mohammad	Supervise On	5/21/2025 5:34:48 AM		
SubDirectory	PD051925	HP Acquire Method		HP Processing Method	pd0519 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	PSTDCCC050	PD088626.D	19 May 2025 22:43	AR\AJ	Ok

M : Manual Integration

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD041825

Review By	Abdul	Review On	4/19/2025 2:07:56 PM		
Supervise By	mohammad	Supervise On	4/22/2025 2:20:46 AM		
SubDirectory	PD041825	HP Acquire Method		HP Processing Method	pd041825 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PD088120.D	18 Apr 2025 13:02		AR\AJ	Ok
2	I.BLK	I.BLK	PD088121.D	18 Apr 2025 13:15		AR\AJ	Ok
3	PEM	PEM	PD088122.D	18 Apr 2025 13:29		AR\AJ	Ok,M
4	RESCHK	RESCHK	PD088123.D	18 Apr 2025 13:43		AR\AJ	Ok
5	PSTDICC100	PSTDICC100	PD088124.D	18 Apr 2025 13:56		AR\AJ	Ok,M
6	PSTDICC075	PSTDICC075	PD088125.D	18 Apr 2025 14:10		AR\AJ	Ok
7	PSTDICC050	PSTDICC050	PD088126.D	18 Apr 2025 14:24		AR\AJ	Ok
8	PSTDICC025	PSTDICC025	PD088127.D	18 Apr 2025 14:37		AR\AJ	Ok
9	PSTDICC005	PSTDICC005	PD088128.D	18 Apr 2025 14:51		AR\AJ	Ok,M
10	PCHLORICC1000	PCHLORICC1000	PD088129.D	18 Apr 2025 15:05		AR\AJ	Ok
11	PCHLORICC750	PCHLORICC750	PD088130.D	18 Apr 2025 15:18		AR\AJ	Ok
12	PCHLORICC500	PCHLORICC500	PD088131.D	18 Apr 2025 15:32		AR\AJ	Ok
13	PCHLORICC250	PCHLORICC250	PD088132.D	18 Apr 2025 15:46		AR\AJ	Ok
14	PCHLORICC050	PCHLORICC050	PD088133.D	18 Apr 2025 15:59		AR\AJ	Ok,M
15	PTOXICC1000	PTOXICC1000	PD088134.D	18 Apr 2025 16:13		AR\AJ	Ok,M
16	PTOXICC750	PTOXICC750	PD088135.D	18 Apr 2025 16:27		AR\AJ	Ok
17	PTOXICC500	PTOXICC500	PD088136.D	18 Apr 2025 16:40		AR\AJ	Ok
18	PTOXICC250	PTOXICC250	PD088137.D	18 Apr 2025 16:54		AR\AJ	Ok,M

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Daily Analysis Runlog For Sequence/QCBatch ID # PD041825

Review By	Abdul	Review On	4/19/2025 2:07:56 PM		
Supervise By	mohammad	Supervise On	4/22/2025 2:20:46 AM		
SubDirectory	PD041825	HP Acquire Method		HP Processing Method	pd041825 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PTOXICC100	PTOXICC100	PD088138.D	18 Apr 2025 17:08		AR\AJ	Ok,M
20	PSTDICV050	ICVPD041825	PD088139.D	18 Apr 2025 17:21		AR\AJ	Ok
21	PCHLORICV500	ICVPD041825CHLOR	PD088140.D	18 Apr 2025 17:35		AR\AJ	Ok
22	PTOXICV500	ICVPD041825TOX	PD088141.D	18 Apr 2025 17:49		AR\AJ	Ok
23	I.BLK	I.BLK	PD088142.D	18 Apr 2025 18:02		AR\AJ	Ok
24	PEM	PEM	PD088143.D	18 Apr 2025 18:16		AR\AJ	Ok,M
25	PSTDCCC050	PSTDCCC050	PD088144.D	18 Apr 2025 18:30	ccc high	AR\AJ	Not Ok

M : Manual Integration

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD051325

Review By	Abdul	Review On	5/14/2025 8:34:03 AM		
Supervise By	mohammad	Supervise On	5/20/2025 3:33:00 AM		
SubDirectory	PD051325	HP Acquire Method		HP Processing Method	pd041825 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PD088496.D	13 May 2025 09:14		AR\AJ	Ok
2	I.BLK	I.BLK	PD088497.D	13 May 2025 09:28		AR\AJ	Ok
3	PEM	PEM	PD088498.D	13 May 2025 09:41		AR\AJ	Ok,M
4	PSTDCCC050	PSTDCCC050	PD088499.D	13 May 2025 09:55		AR\AJ	Ok,M
5	PB167950BL	PB167950BL	PD088500.D	13 May 2025 10:08	Not used	AR\AJ	Not Ok
6	Q1982-01	TP-1	PD088501.D	13 May 2025 10:22		AR\AJ	Ok
7	Q1982-02	TP-2B	PD088502.D	13 May 2025 10:35		AR\AJ	Ok,M
8	Q1982-04	TP-4	PD088503.D	13 May 2025 10:49		AR\AJ	Ok,M
9	Q1982-05	TP-5	PD088504.D	13 May 2025 11:02		AR\AJ	Ok
10	Q1982-07	TP-8	PD088505.D	13 May 2025 11:16		AR\AJ	Ok,M
11	PB167925BL	PB167925BL	PD088506.D	13 May 2025 11:29		AR\AJ	Ok
12	Q1983-01DL	OR-636-COMP-01DL	PD088507.D	13 May 2025 11:43		AR\AJ	Ok,M
13	PB167969BL	PB167969BL	PD088508.D	13 May 2025 11:57		AR\AJ	Ok
14	PB167969BS	PB167969BS	PD088509.D	13 May 2025 12:10		AR\AJ	Ok
15	PB167851TB	PB167851TB	PD088510.D	13 May 2025 12:24		AR\AJ	Ok
16	Q1956-05	COMP1	PD088511.D	13 May 2025 12:37		AR\AJ	Ok
17	Q1956-05MS	COMP1MS	PD088512.D	13 May 2025 12:51		AR\AJ	Ok,M
18	Q1956-05MSD	COMP1MSD	PD088513.D	13 May 2025 13:04		AR\AJ	Ok

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Daily Analysis Runlog For Sequence/QCBatch ID # PD051325

Review By	Abdul	Review On	5/14/2025 8:34:03 AM		
Supervise By	mohammad	Supervise On	5/20/2025 3:33:00 AM		
SubDirectory	PD051325	HP Acquire Method		HP Processing Method	pd041825 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	I.BLK	I.BLK	PD088514.D	13 May 2025 13:18		AR\AJ	Ok
20	PSTDCCC050	PSTDCCC050	PD088515.D	13 May 2025 14:22		AR\AJ	Ok,M
21	Q2007-06	OR-636-COMP-10	PD088516.D	13 May 2025 14:35		AR\AJ	Ok
22	Q2007-12	OR-636-COMP-11	PD088517.D	13 May 2025 14:49		AR\AJ	Ok,M
23	Q2007-18	OR-636-COMP-12	PD088518.D	13 May 2025 15:03		AR\AJ	Ok
24	Q2007-24	OR-636-COMP-13	PD088519.D	13 May 2025 15:16		AR\AJ	Ok
25	Q2007-30	OR-636-COMP-14	PD088520.D	13 May 2025 15:30		AR\AJ	Ok
26	Q2007-36	OR-636-COMP-15	PD088521.D	13 May 2025 15:44		AR\AJ	Ok,M
27	PB167925BS	PB167925BS	PD088522.D	13 May 2025 16:16		AR\AJ	Ok
28	I.BLK	I.BLK	PD088523.D	13 May 2025 16:35		AR\AJ	Ok
29	PSTDCCC050	PSTDCCC050	PD088524.D	13 May 2025 16:48		AR\AJ	Ok,M
30	PB167959BL	PB167959BL	PD088525.D	13 May 2025 17:02		AR\AJ	Ok
31	PB167959BS	PB167959BS	PD088526.D	13 May 2025 17:15		AR\AJ	Ok
32	Q1982-08	TP-9	PD088527.D	13 May 2025 17:29		AR\AJ	Ok,M
33	Q2010-01	TP-10	PD088528.D	13 May 2025 17:43		AR\AJ	Ok,M
34	Q2010-02	TP-13	PD088529.D	13 May 2025 17:56		AR\AJ	Ok
35	Q2010-03	TP-14	PD088530.D	13 May 2025 18:10		AR\AJ	Ok
36	Q2010-04	TP-17	PD088531.D	13 May 2025 18:24		AR\AJ	Ok
37	Q2014-01	MOO-25-0134	PD088532.D	13 May 2025 18:38		AR\AJ	Ok,M

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD051325

Review By	Abdul	Review On	5/14/2025 8:34:03 AM		
Supervise By	mohammad	Supervise On	5/20/2025 3:33:00 AM		
SubDirectory	PD051325	HP Acquire Method		HP Processing Method	pd041825 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	Q2014-03	MOO-25-0145	PD088533.D	13 May 2025 18:51		AR\AJ	Ok,M
39	Q2014-05	MOO-25-0148	PD088534.D	13 May 2025 19:05	F flag in TCX	AR\AJ	Not Ok
40	I.BLK	I.BLK	PD088535.D	13 May 2025 19:18		AR\AJ	Ok
41	PEM	PEM	PD088536.D	13 May 2025 19:32		AR\AJ	Ok,M
42	PSTDCCC050	PSTDCCC050	PD088537.D	13 May 2025 19:46		AR\AJ	Ok,M
43	Q2017-01	MH-I	PD088538.D	13 May 2025 19:59		AR\AJ	Ok
44	Q2017-05	MH-J	PD088539.D	13 May 2025 20:13		AR\AJ	Ok
45	I.BLK	I.BLK	PD088540.D	13 May 2025 20:27		AR\AJ	Ok
46	PSTDCCC050	PSTDCCC050	PD088541.D	13 May 2025 20:40		AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD051525

Review By	Abdul	Review On	5/16/2025 10:10:37 AM		
Supervise By	mohammad	Supervise On	5/20/2025 2:54:45 AM		
SubDirectory	PD051525	HP Acquire Method		HP Processing Method	pd041825 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PD088550.D	15 May 2025 08:34		AR\AJ	Ok
2	I.BLK	I.BLK	PD088551.D	15 May 2025 08:47		AR\AJ	Ok
3	PEM	PEM	PD088552.D	15 May 2025 09:18		AR\AJ	Ok,M
4	PSTDCCC050	PSTDCCC050	PD088553.D	15 May 2025 09:32		AR\AJ	Ok
5	PCHLORCCC500	PCHLORCCC500	PD088554.D	15 May 2025 09:49		AR\AJ	Ok
6	PTOXCCC500	PTOXCCC500	PD088555.D	15 May 2025 11:06		AR\AJ	Ok,M
7	PB167959BS	PB167959BS	PD088556.D	15 May 2025 11:22	CHLOR BS	AR\AJ	Ok
8	PB167959BS	PB167959BS	PD088557.D	15 May 2025 12:17	TOX BS, ENC ccal fail	AR\AJ	Not Ok
9	Q1984-01	OU4-PCS-TC-33-05072	PD088558.D	15 May 2025 12:38		AR\AJ	Ok
10	Q1984-01MS	OU4-PCS-TC-33-05072	PD088559.D	15 May 2025 12:52		AR\AJ	Ok,M
11	Q1984-01MSD	OU4-PCS-TC-33-05072	PD088560.D	15 May 2025 13:05		AR\AJ	Ok,M
12	Q1984-03	OU4-PCS-TC-34-05072	PD088561.D	15 May 2025 13:19		AR\AJ	Ok
13	Q1984-05	OU4-PCS-TC-35-05072	PD088562.D	15 May 2025 13:33		AR\AJ	Ok
14	Q1984-07	OU4-TS-24-050725	PD088563.D	15 May 2025 13:46		AR\AJ	Ok,M
15	Q1984-09	OU4-TS-25-050725	PD088564.D	15 May 2025 14:00	DCB Low in both column	AR\AJ	ReRun
16	I.BLK	I.BLK	PD088565.D	15 May 2025 14:14		AR\AJ	Ok,M
17	PSTDCCC050	PSTDCCC050	PD088566.D	15 May 2025 15:11		AR\AJ	Ok,M
18	PCHLORCCC500	PCHLORCCC500	PD088567.D	15 May 2025 15:59		AR\AJ	Ok

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Daily Analysis Runlog For Sequence/QCBatch ID # PD051525

Review By	Abdul	Review On	5/16/2025 10:10:37 AM		
Supervise By	mohammad	Supervise On	5/20/2025 2:54:45 AM		
SubDirectory	PD051525	HP Acquire Method		HP Processing Method	pd041825 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PTOXCCC500	PTOXCCC500	PD088568.D	15 May 2025 17:54	CCAL fail	AR\AJ	Not Ok
20	Q1984-11	OU4-TS-26-050725	PD088569.D	15 May 2025 18:08	DCB Low in both column	AR\AJ	ReRun
21	Q1984-13	OU4-TS-27-050725	PD088570.D	15 May 2025 18:22	DCB Low in both column	AR\AJ	ReRun
22	Q1984-15	OU4-TS-28-050725	PD088571.D	15 May 2025 18:35	DCB Low in both column	AR\AJ	ReRun
23	I.BLK	I.BLK	PD088572.D	15 May 2025 18:49		AR\AJ	Ok,M
24	PSTDCCC050	PSTDCCC050	PD088573.D	15 May 2025 19:02	Comp#2 high in 1st column	AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD051925

Review By	Abdul	Review On	5/20/2025 9:04:34 AM		
Supervise By	mohammad	Supervise On	5/21/2025 5:34:48 AM		
SubDirectory	PD051925	HP Acquire Method		HP Processing Method	pd0519 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PD088582.D	19 May 2025 10:36		AR\AJ	Ok
2	I.BLK	I.BLK	PD088583.D	19 May 2025 10:50		AR\AJ	Ok
3	PEM	PEM	PD088584.D	19 May 2025 11:04		AR\AJ	Ok,M
4	RESCHK	RESCHK	PD088585.D	19 May 2025 11:17		AR\AJ	Ok
5	PSTDICC100	PSTDICC100	PD088586.D	19 May 2025 11:31		AR\AJ	Ok
6	PSTDICC075	PSTDICC075	PD088587.D	19 May 2025 11:45		AR\AJ	Ok
7	PSTDICC050	PSTDICC050	PD088588.D	19 May 2025 11:58		AR\AJ	Ok
8	PSTDICC025	PSTDICC025	PD088589.D	19 May 2025 12:12		AR\AJ	Ok
9	PSTDICC005	PSTDICC005	PD088590.D	19 May 2025 12:25		AR\AJ	Ok,M
10	PCHLORICC1000	PCHLORICC1000	PD088591.D	19 May 2025 12:39		AR\AJ	Ok
11	PCHLORICC750	PCHLORICC750	PD088592.D	19 May 2025 12:52		AR\AJ	Ok
12	PCHLORICC500	PCHLORICC500	PD088593.D	19 May 2025 13:06		AR\AJ	Ok
13	PCHLORICC250	PCHLORICC250	PD088594.D	19 May 2025 13:19		AR\AJ	Ok
14	PCHLORICC050	PCHLORICC050	PD088595.D	19 May 2025 13:33		AR\AJ	Ok
15	PTOXICC1000	PTOXICC1000	PD088596.D	19 May 2025 13:47		AR\AJ	Ok
16	PTOXICC750	PTOXICC750	PD088597.D	19 May 2025 14:00		AR\AJ	Ok
17	PTOXICC500	PTOXICC500	PD088598.D	19 May 2025 14:14		AR\AJ	Ok
18	PTOXICC250	PTOXICC250	PD088599.D	19 May 2025 14:27		AR\AJ	Ok,M

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

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD051925

Review By	Abdul	Review On	5/20/2025 9:04:34 AM		
Supervise By	mohammad	Supervise On	5/21/2025 5:34:48 AM		
SubDirectory	PD051925	HP Acquire Method		HP Processing Method	pd0519 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PTOXICC100	PTOXICC100	PD088600.D	19 May 2025 14:41		AR\AJ	Ok
20	PSTDICV050	ICVPD051925	PD088601.D	19 May 2025 14:55		AR\AJ	Ok
21	PCHLORICV500	ICVPD051925CHLOR	PD088602.D	19 May 2025 15:08		AR\AJ	Ok,M
22	PTOXICV500	ICVPD051925TOX	PD088603.D	19 May 2025 15:22		AR\AJ	Ok
23	I.BLK	I.BLK	PD088604.D	19 May 2025 15:35		AR\AJ	Ok
24	PEM	PEM	PD088605.D	19 May 2025 15:49		AR\AJ	Ok,M
25	PSTDCCC050	PSTDCCC050	PD088606.D	19 May 2025 16:02		AR\AJ	Ok
26	PTOXCCC500	PTOXCCC500	PD088607.D	19 May 2025 16:16		AR\AJ	Ok
27	PB167959BS	PB167959BS	PD088608.D	19 May 2025 16:32	TOX BS	AR\AJ	Ok
28	Q1984-09RE	OU4-TS-25-050725RE	PD088609.D	19 May 2025 16:50	DCB Low in both column	AR\AJ	Confirms
29	Q1984-11RE	OU4-TS-26-050725RE	PD088610.D	19 May 2025 17:04	DCB Low in both column	AR\AJ	Confirms
30	Q1984-13RE	OU4-TS-27-050725RE	PD088611.D	19 May 2025 17:18	DCB Low in both column	AR\AJ	Confirms
31	Q1984-15RE	OU4-TS-28-050725RE	PD088612.D	19 May 2025 17:31	DCB Low in both column	AR\AJ	Confirms
32	I.BLK	I.BLK	PD088613.D	19 May 2025 17:45		AR\AJ	Ok,M
33	PSTDCCC050	PSTDCCC050	PD088614.D	19 May 2025 18:45		AR\AJ	Ok,M
34	PTOXCCC500	PTOXCCC500	PD088615.D	19 May 2025 19:32		AR\AJ	Ok
35	PB168066BL	PB168066BL	PD088616.D	19 May 2025 20:26		AR\AJ	Ok
36	PB168066BS	PB168066BS	PD088617.D	19 May 2025 20:40	Recovery fail for comp # 17 & 20	AR\AJ	Not Ok
37	PB167994TB	PB167994TB	PD088618.D	19 May 2025 20:54		AR\AJ	Ok

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

Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD051925

Review By	Abdul	Review On	5/20/2025 9:04:34 AM		
Supervise By	mohammad	Supervise On	5/21/2025 5:34:48 AM		
SubDirectory	PD051925	HP Acquire Method		HP Processing Method	pd0519 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	Q2014-05	MOO-25-0148	PD088619.D	19 May 2025 21:08	TCMX having F flag in both column, already run	AR\AJ	Not Ok
39	Q2027-03	B27-SOIL-SAMPLE	PD088620.D	19 May 2025 21:21		AR\AJ	Ok,M
40	Q2027-03MS	B27-SOIL-SAMPLEMS	PD088621.D	19 May 2025 21:35		AR\AJ	Ok,M
41	Q2027-03MSD	B27-SOIL-SAMPLEMS	PD088622.D	19 May 2025 21:49		AR\AJ	Ok,M
42	Q2027-04	B28-SOIL-SAMPLE	PD088623.D	19 May 2025 22:02		AR\AJ	Ok
43	Q2032-09	COMP-1	PD088624.D	19 May 2025 22:16		AR\AJ	Ok
44	I.BLK	I.BLK	PD088625.D	19 May 2025 22:30		AR\AJ	Ok
45	PSTDCCC050	PSTDCCC050	PD088626.D	19 May 2025 22:43		AR\AJ	Ok

M : Manual Integration

PERCENT SOLID

Supervisor: rubina
Analyst: jignesh
Date: 5/9/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:20
In Date: 05/08/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:27
Out Date: 05/09/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB135705

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q1929-14	WC-A4-02-C	1	1.15	10.65	11.8	10.38	86.7	
Q1929-15	WC-A1-03-C	2	1.18	10.06	11.24	9.00	77.7	
Q1929-16	WC-A1-04-C	3	1.17	10.24	11.41	9.52	81.5	
Q1982-01	TP-1	4	1.15	10.33	11.48	9.51	80.9	
Q1982-02	TP-2B	5	1.18	10.20	11.38	9.85	85.0	
Q1982-03	TP-3	6	1.18	10.54	11.72	10.74	90.7	
Q1982-04	TP-4	7	1.19	10.07	11.26	9.99	87.4	
Q1982-05	TP-5	8	1.18	10.08	11.26	10.24	89.9	
Q1982-06	TP-6	9	1.16	10.74	11.9	10.42	86.2	
Q1982-07	TP-7	10	1.19	10.23	11.42	9.75	83.7	
Q1982-08	TP-8	11	1.16	10.42	11.58	9.63	81.3	
Q1983-01	OR-636-COMP-01	12	1.16	10.07	11.23	10.1	88.8	
Q1983-02	OR-636-VOC-01	13	1.18	10.23	11.41	9.74	83.7	
Q1983-03	OR-636-01	14	1.16	9.92	11.08	9.73	86.4	
Q1983-04	OR-636-02	15	1.19	10.30	11.49	10.15	87.0	
Q1983-05	OR-636-03	16	1.15	9.56	10.71	9.77	90.2	
Q1983-07	OR-636-COMP-02	17	1.17	10.61	11.78	10.6	88.9	
Q1983-08	OR-636-VOC-02	18	1.12	10.72	11.84	10.58	88.2	
Q1983-09	OR-636-04	19	1.17	10.05	11.22	9.89	86.8	
Q1983-10	OR-636-05	20	1.19	10.59	11.78	10.78	90.6	
Q1983-11	OR-636-06	21	1.18	10.14	11.32	10.02	87.2	
Q1983-13	OR-636-COMP-03	22	1.14	10.30	11.44	10.75	93.3	
Q1983-14	OR-636-VOC-03	23	1.15	10.36	11.51	10.61	91.3	
Q1983-15	OR-636-07	24	1.16	10.64	11.8	11.39	96.1	
Q1983-16	OR-636-08	25	1.14	10.73	11.87	10.89	90.9	
Q1983-17	OR-636-09	26	1.18	10.44	11.62	10.74	91.6	
Q1983-19	OR-636-COMP-04	27	1.18	10.81	11.99	11.05	91.3	
Q1983-20	OR-636-VOC-04	28	1.15	10.33	11.48	9.6	81.8	

PERCENT SOLID

Supervisor: rubina
Analyst: jignesh
Date: 5/9/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:20
In Date: 05/08/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:27
Out Date: 05/09/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB135705

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q1983-21	OR-636-10	29	1.19	10.51	11.7	10.72	90.7	
Q1983-22	OR-636-11	30	1.19	10.59	11.78	10.5	87.9	
Q1983-23	OR-636-12	31	1.15	10.43	11.58	9.76	82.6	
Q1983-25	OR-636-COMP-05	32	1.17	9.97	11.14	9.07	79.2	
Q1983-26	OR-636-VOC-05	33	1.16	10.04	11.2	9.08	78.9	
Q1983-27	OR-636-13	34	1.14	10.53	11.67	11.04	94.0	
Q1983-28	OR-636-14	35	1.15	10.52	11.67	10.00	84.1	
Q1983-29	OR-636-15	36	1.16	10.35	11.51	9.74	82.9	
Q1983-31	OR-636-COMP-06	37	1.15	9.84	10.99	9.52	85.1	
Q1983-32	OR-636-VOC-06	38	1.17	10.61	11.78	10.78	90.6	
Q1983-33	OR-636-16	39	1.19	9.73	10.92	10.4	94.7	
Q1983-34	OR-636-17	40	1.13	10.55	11.68	10.37	87.6	
Q1983-35	OR-636-18	41	1.18	10.15	11.33	9.59	82.9	
Q1983-37	OR-636-COMP-07	42	1.18	10.44	11.62	10.35	87.8	
Q1983-38	OR-636-VOC-07	43	1.12	10.77	11.89	10.88	90.6	
Q1983-39	OR-636-19	44	1.15	9.66	10.81	9.34	84.8	
Q1983-40	OR-636-20	45	1.18	10.29	11.47	10.21	87.8	
Q1983-41	OR-636-21	46	1.14	10.58	11.72	10.5	88.5	
Q1983-43	OR-636-COMP-08	47	1.15	10.25	11.4	10.45	90.7	
Q1983-44	OR-636-VOC-08	48	1.16	9.97	11.13	10.78	96.5	
Q1983-45	OR-636-22	49	1.13	10.62	11.75	10.91	92.1	
Q1983-46	OR-636-23	50	1.19	9.96	11.15	10.05	89.0	
Q1983-47	OR-636-24	51	1.13	10.33	11.46	11.18	97.3	
Q1983-49	OR-636-COMP-09	52	1.13	10.36	11.49	10.31	88.6	
Q1983-50	OR-636-VOC-09	53	1.19	10.54	11.73	10.1	84.5	
Q1983-51	OR-636-25	54	1.16	10.09	11.25	9.61	83.7	
Q1983-52	OR-636-26	55	1.18	10.11	11.29	9.93	86.5	
Q1983-53	OR-636-27	56	1.16	9.66	10.82	10.34	95.0	

PERCENT SOLID

Supervisor: rubina
Analyst: jignesh
Date: 5/9/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:20
In Date: 05/08/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:27
Out Date: 05/09/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB135705

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q1984-01	OU4-PCS-TC-33-050725	57	1.15	9.96	11.11	10.62	95.1	
Q1984-03	OU4-PCS-TC-34-050725	58	1.16	10.82	11.98	11.51	95.7	
Q1984-05	OU4-PCS-TC-35-050725	59	1.19	9.50	10.69	10.16	94.4	
Q1984-07	OU4-TS-24-050725	60	1.15	10.00	11.15	8.12	69.7	
Q1984-09	OU4-TS-25-050725	61	1.17	10.51	11.68	8.32	68.0	
Q1984-11	OU4-TS-26-050725	62	1.17	10.18	11.35	7.29	60.1	
Q1984-13	OU4-TS-27-050725	63	1.16	9.67	10.83	7.2	62.5	
Q1984-15	OU4-TS-28-050725	64	1.16	9.98	11.14	7.61	64.6	
Q1986-01	COMP-8	65	1.18	10.04	11.22	10.5	92.8	
Q1986-03	COMP-9	66	1.18	10.05	11.23	10.44	92.1	
Q1986-05	COMP-10	67	1.16	9.77	10.93	9.84	88.8	
Q1986-07	COMP-11	68	1.19	10.33	11.52	10.55	90.6	
Q1986-09	COMP-218	69	1.16	10.18	11.34	10.45	91.3	
Q1987-01	GC1	70	1.14	9.89	11.03	9.7	86.6	
Q1990-01	43025-A	71	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1990-02	43025-B	72	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1991-01	1217	73	1.00	1.00	2.00	2.00	100.0	oil sample
Q1991-03	30425	74	1.00	1.00	2.00	2.00	100.0	oil sample

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

VB 135705

WorkList Name : %1-050825 **WorkList ID :** 189376 **Department :** Wet-Chemistry **Date :** 05-08-2025 08:10:25

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1929-14	WC-A4-02-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	L41	04/30/2025	Chemtech -SO
Q1929-15	WC-A1-03-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	L41	04/30/2025	Chemtech -SO
Q1929-16	WC-A1-04-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	L41	04/30/2025	Chemtech -SO
Q1982-01	TP-1	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/07/2025	Chemtech -SO
Q1982-02	TP-2B	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/07/2025	Chemtech -SO
Q1982-03	TP-3	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/07/2025	Chemtech -SO
Q1982-04	TP-4	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/07/2025	Chemtech -SO
Q1982-05	TP-5	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/07/2025	Chemtech -SO
Q1982-06	TP-6	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/07/2025	Chemtech -SO
Q1982-07	TP-7	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/07/2025	Chemtech -SO
Q1982-08	TP-8	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/07/2025	Chemtech -SO
Q1983-01	OR-636-COMP-01	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/07/2025	Chemtech -SO
Q1983-02	OR-636-VOC-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-03	OR-636-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-04	OR-636-02	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-05	OR-636-03	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-07	OR-636-COMP-02	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-08	OR-636-VOC-02	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-09	OR-636-04	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-10	OR-636-05	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-11	OR-636-06	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO

Date/Time 05108125 151.00

Raw Sample Received by: [signature] (WC)

Raw Sample Relinquished by: [signature]

Date/Time 05108125 1730

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature] (WC)

Q1984-Pesticide-TCL

WORKLIST(Hardcopy Internal Chain)

135705

WorkList Name : %1-050825 **WorkList ID :** 189376 **Department :** Wet-Chemistry **Date :** 05-08-2025 08:10:25

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1983-13	OR-636-COMP-03	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-14	OR-636-VOC-03	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-15	OR-636-07	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-16	OR-636-08	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-17	OR-636-09	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-19	OR-636-COMP-04	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-20	OR-636-VOC-04	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-21	OR-636-10	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-22	OR-636-11	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-23	OR-636-12	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-25	OR-636-COMP-05	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-26	OR-636-VOC-05	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-27	OR-636-13	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-28	OR-636-14	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-29	OR-636-15	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-31	OR-636-COMP-06	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-32	OR-636-VOC-06	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-33	OR-636-16	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-34	OR-636-17	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-35	OR-636-18	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-37	OR-636-COMP-07	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO

Date/Time 05/08/25 15:00

Raw Sample Received by: JB WOC

Raw Sample Relinquished by: CP

Date/Time 05/08/25 17:30

Raw Sample Received by: CP

Raw Sample Relinquished by: JB WOC

WORKLIST(Hardcopy Internal Chain)

135705

WorkList Name : %1-050825 **WorkList ID :** 189376 **Department :** Wet-Chemistry **Date :** 05-08-2025 08:10:25

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1983-38	OR-636-VOC-07	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-39	OR-636-19	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-40	OR-636-20	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-41	OR-636-21	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-43	OR-636-COMP-08	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-44	OR-636-VOC-08	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-45	OR-636-22	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-46	OR-636-23	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-47	OR-636-24	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-49	OR-636-COMP-09	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-50	OR-636-VOC-09	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-51	OR-636-25	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-52	OR-636-26	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-53	OR-636-27	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1984-01	OU4-PCS-TC-33-050725	Solid	Percent Solids	Cool 4 deg C	NOBI03	L41	05/07/2025	Chemtech -SO
Q1984-03	OU4-PCS-TC-34-050725	Solid	Percent Solids	Cool 4 deg C	NOBI03	L41	05/07/2025	Chemtech -SO
Q1984-05	OU4-PCS-TC-35-050725	Solid	Percent Solids	Cool 4 deg C	NOBI03	L41	05/07/2025	Chemtech -SO
Q1984-07	OU4-TS-24-050725	Solid	Percent Solids	Cool 4 deg C	NOBI03	L41	05/07/2025	Chemtech -SO
Q1984-09	OU4-TS-25-050725	Solid	Percent Solids	Cool 4 deg C	NOBI03	L41	05/07/2025	Chemtech -SO
Q1984-11	OU4-TS-26-050725	Solid	Percent Solids	Cool 4 deg C	NOBI03	L41	05/07/2025	Chemtech -SO
Q1984-13	OU4-TS-27-050725	Solid	Percent Solids	Cool 4 deg C	NOBI03	L41	05/07/2025	Chemtech -SO

Date/Time 05/08/25 15:00

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 05/08/25 17:30

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

WORKLIST(Hardcopy Internal Chain)

LB135705

WorkList Name : %1-050825 **WorkList ID :** 189376 **Department :** Wet-Chemistry **Date :** 05-08-2025 08:10:25

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1984-15	OU4-TS-28-050725	Solid	Percent Solids	Cool 4 deg C	NOBI03	L41	05/07/2025	Chemtech -SO
Q1986-01	COMP-8	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	05/08/2025	Chemtech -SO
Q1986-03	COMP-9	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	05/08/2025	Chemtech -SO
Q1986-05	COMP-10	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	05/08/2025	Chemtech -SO
Q1986-07	COMP-11	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	05/08/2025	Chemtech -SO
Q1986-09	COMP-218	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	05/08/2025	Chemtech -SO
Q1987-01	GC1	Solid	Percent Solids	Cool 4 deg C	GENV01	L41	05/07/2025	Chemtech -SO
Q1990-01	43025-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	05/08/2025	Chemtech -SO
Q1990-02	43025-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	05/08/2025	Chemtech -SO
Q1991-01	1217	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	05/08/2025	Chemtech -SO
Q1991-03	30425	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	05/08/2025	Chemtech -SO

Date/Time 05/08/25 15:00

Raw Sample Received by: LWO

Raw Sample Relinquished by:

Date/Time 05/08/25 17:30

Raw Sample Received by:

Raw Sample Relinquished by: LWO

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 5/20/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:10
In Date: 05/19/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:22
Out Date: 05/20/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB135825

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q1984-19	OU4-TB01-050725	1	1.00	1.00	2.00	2.00	100.0	T.B.
Q2074-01	TP-12	2	1.18	10.28	11.46	9.76	83.5	
Q2074-02	TP-7	3	1.18	10.15	11.33	10.18	88.7	
Q2074-03	TP-15	4	1.13	10.33	11.46	10.12	87.0	
Q2074-04	TP-20	5	1.12	10.65	11.77	10.1	84.3	
Q2074-05	TP-38	6	1.18	10.19	11.37	9.53	81.9	
Q2074-06	TP-19	7	1.16	10.12	11.28	9.85	85.9	
Q2074-07	TP-40	8	1.14	9.89	11.03	9.96	89.2	
Q2074-08	TP-18	9	1.15	10.16	11.31	9.07	78.0	
Q2075-01	SS-10	10	1.16	10.56	11.72	9.59	79.8	
Q2075-02	SS-910	11	1.17	10.05	11.22	9.34	81.3	
Q2075-03	SS-11	12	1.18	10.51	11.69	10.37	87.4	
Q2075-04	Q2075-03MS	13	1.18	10.51	11.69	10.37	87.4	
Q2075-05	Q2075-03MSD	14	1.18	10.51	11.69	10.37	87.4	
Q2075-06	SS-MW1-11.5	15	1.14	10.00	11.14	10.24	91.0	
Q2076-01	OILY-DEBRIS	16	1.00	1.00	2.00	2.00	100.0	oily-debris
Q2080-01	PL-HRH-COMP-01	17	1.13	10.62	11.75	10.32	86.5	
Q2080-02	PL-HRH-VOC-01	18	1.17	10.22	11.39	9.6	82.5	
Q2080-03	PL-HRH-01	19	1.12	10.77	11.89	10.16	83.9	
Q2080-04	PL-HRH-02	20	1.16	10.40	11.56	9.82	83.3	
Q2080-05	PL-HRH-03	21	1.15	10.00	11.15	9.43	82.8	
Q2080-07	PL-HRH-COMP-02	22	1.19	10.46	11.65	9.62	80.6	
Q2080-08	PL-HRH-VOC-02	23	1.14	10.76	11.9	9.8	80.5	
Q2080-09	PL-HRH-04	24	1.16	10.70	11.86	9.55	78.4	
Q2080-10	PL-HRH-05	25	1.19	10.43	11.62	9.52	79.9	
Q2080-11	PL-HRH-06	26	1.13	10.74	11.87	10.2	84.5	
Q2081-01	CAULK	27	1.00	1.00	2.00	2.00	100.0	caluk

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 5/20/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:10
In Date: 05/19/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:22
Out Date: 05/20/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB135825

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

VB 135825

WorkList Name : %1-051925 **WorkList ID :** 189586 **Department :** Wet-Chemistry **Date :** 05-19-2025 08:23:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1984-19	OU4-TB01-050725	Solid	Percent Solids	Cool 4 deg C	NOBI03	L41	05/07/2025	Chemtech -SO
Q2074-01	TP-12	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2074-02	TP-7	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2074-03	TP-15	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2074-04	TP-20	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2074-05	TP-38	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2074-06	TP-19	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2074-07	TP-40	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2074-08	TP-18	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2075-01	SS-10	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2075-02	SS-910	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/15/2025	Chemtech -SO
Q2075-03	SS-11	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/15/2025	Chemtech -SO
Q2075-04	Q2075-03MS	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/15/2025	Chemtech -SO
Q2075-05	Q2075-03MSD	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/15/2025	Chemtech -SO
Q2075-06	SS-MW1-11.5	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/15/2025	Chemtech -SO
Q2076-01	OILY-DEBRIS	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/16/2025	Chemtech -SO
Q2080-01	PL-HRH-COMP-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-02	PL-HRH-VOC-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-03	PL-HRH-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-04	PL-HRH-02	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-05	PL-HRH-03	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO

Date/Time 05-19-25 15:35

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 05-19-25 17:15

Raw Sample Received by:

Raw Sample Relinquished by:

WORKLIST(Hardcopy Internal Chain)

VB 135825

WorkList Name : %1-051925 **WorkList ID :** 189586 **Department :** Wet-Chemistry **Date :** 05-19-2025 08:23:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2080-07	PL-HRH-COMP-02	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-08	PL-HRH-VOC-02	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-09	PL-HRH-04	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-10	PL-HRH-05	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-11	PL-HRH-06	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2081-01	CAULK	Solid	Percent Solids	Cool 4 deg C	ATCE02	L31	05/19/2025	Chemtech -SO

Date/Time 05.19.25 1515

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 05.19.25 1715

Raw Sample Received by:

Raw Sample Relinquished by:

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167959

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	Florisil			**Extraction Start Date :**	05/13/2025
Matrix :	Solid			**Extraction Start Time :**	08:30
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	05/13/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	11:40
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	RUPESH

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	500 PPB	PP24285
Surrogate	1.0ML	200 PPB	PP24460
Spike Sol 2	2.0ML	1000 PPB	PP24081
Spike Sol 3	2.0ML	1000 PPB	PP24080
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Hexane/Acetone/1:1	N/A	EP2613
Baked Na2SO4	N/A	EP2611
Sand	N/A	E2865
Hexane	N/A	E3933
Florisil	N/A	E3806
9:1 Hexane:Acetone Mixture	N/A	EP2596
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 # 03-40BTS723.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/13/25	RJ (Ext-lab)	AR Pest/PCB Lab
11:45	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167959

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 05/13/2025

Sample ID	Client Sample ID	Test	(g) mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167959BL	PBLK959	Pesticide-TCL	30.01	N/A	ritesh	Evelyn	10			U1-1
PB167959BS	PLCS959	Pesticide-TCL	30.03	N/A	ritesh	Evelyn	10			2
Q1982-08	TP-9	Pesticide-TCL	30.04	N/A	ritesh	Evelyn	10	E		3
Q1984-01	OU4-PCS-TC-33-050725	Pesticide-TCL	30.06	N/A	ritesh	Evelyn	10	E		4
Q1984-01MS	OU4-PCS-TC-33-050725MS	Pesticide-TCL	30.02	N/A	ritesh	Evelyn	10	E		5
Q1984-01MSD	OU4-PCS-TC-33-050725MSD	Pesticide-TCL	30.05	N/A	ritesh	Evelyn	10	E		6
Q1984-03	OU4-PCS-TC-34-050725	Pesticide-TCL	30.05	N/A	ritesh	Evelyn	10	E		U2-1
Q1984-05	OU4-PCS-TC-35-050725	Pesticide-TCL	30.08	N/A	ritesh	Evelyn	10	E		2
Q1984-07	OU4-TS-24-050725	Pesticide-TCL	30.06	N/A	ritesh	Evelyn	10	E		3
Q1984-09	OU4-TS-25-050725	Pesticide-TCL	30.03	N/A	ritesh	Evelyn	10	E		4
Q1984-11	OU4-TS-26-050725	Pesticide-TCL	30.08	N/A	ritesh	Evelyn	10	E		5
Q1984-13	OU4-TS-27-050725	Pesticide-TCL	30.02	N/A	ritesh	Evelyn	10	E		6
Q1984-15	OU4-TS-28-050725	Pesticide-TCL	30.04	N/A	ritesh	Evelyn	10	E		U3-1
Q2010-01	TP-10	Pesticide-TCL	30.07	N/A	ritesh	Evelyn	10	E		2
Q2010-02	TP-13	Pesticide-TCL	30.01	N/A	ritesh	Evelyn	10	E		3
Q2010-03	TP-14	Pesticide-TCL	30.03	N/A	ritesh	Evelyn	10	E		4
Q2010-04	TP-17	Pesticide-TCL	30.02	N/A	ritesh	Evelyn	10	E		5
Q2014-01	MOO-25-0134	Pesticide-TCL	30.01	N/A	ritesh	Evelyn	10	E	Small Particles	6
Q2014-03	MOO-25-0145	Pesticide-TCL	30.02	N/A	ritesh	Evelyn	10	E	Small Particles	U7-1
Q2014-05	MOO-25-0148	Pesticide-TCL	30.04	N/A	ritesh	Evelyn	10	E	Small Particles	2
Q2017-01	MH-I	Pesticide-TCL	30.08	N/A	ritesh	Evelyn	10	E		3
Q2017-05	MH-J	Pesticide-TCL	30.06	N/A	ritesh	Evelyn	10	A		4

RJ 5/13

* **Extracts relinquished on the same date as received.**

Q1984-Pesticide-TCL

Q1959 8:30

RS 5/16

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2010 **WorkList ID :** 189474 **Department :** Extraction **Date :** 05-13-2025 08:25:45

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1982-08	TP-9	Solid	Pesticide-TCL	Cool 4 deg C	CAMP02	L41	05/07/2025	8081B
Q1984-01	OU4-PCS-TC-33-050725	Solid	Pesticide-TCL	Cool 4 deg C	NOBI03	L41	05/07/2025	8081B
Q1984-03	OU4-PCS-TC-34-050725	Solid	Pesticide-TCL	Cool 4 deg C	NOBI03	L41	05/07/2025	8081B
Q1984-05	OU4-PCS-TC-35-050725	Solid	Pesticide-TCL	Cool 4 deg C	NOBI03	L41	05/07/2025	8081B
Q1984-07	OU4-TS-24-050725	Solid	Pesticide-TCL	Cool 4 deg C	NOBI03	L41	05/07/2025	8081B
Q1984-09	OU4-TS-25-050725	Solid	Pesticide-TCL	Cool 4 deg C	NOBI03	L41	05/07/2025	8081B
Q1984-11	OU4-TS-26-050725	Solid	Pesticide-TCL	Cool 4 deg C	NOBI03	L41	05/07/2025	8081B
Q1984-13	OU4-TS-27-050725	Solid	Pesticide-TCL	Cool 4 deg C	NOBI03	L41	05/07/2025	8081B
Q1984-15	OU4-TS-28-050725	Solid	Pesticide-TCL	Cool 4 deg C	NOBI03	L41	05/07/2025	8081B
Q2010-01	TP-10	Solid	Pesticide-TCL	Cool 4 deg C	CAMP02	L51	05/08/2025	8081B
Q2010-02	TP-13	Solid	Pesticide-TCL	Cool 4 deg C	CAMP02	L51	05/08/2025	8081B
Q2010-03	TP-14	Solid	Pesticide-TCL	Cool 4 deg C	CAMP02	L51	05/08/2025	8081B
Q2010-04	TP-17	Solid	Pesticide-TCL	Cool 4 deg C	CAMP02	L51	05/08/2025	8081B
Q2014-01	MOO-25-0134	Solid	Pesticide-TCL	Cool 4 deg C	PSEG03	L41	05/12/2025	8081B
Q2014-03	MOO-25-0145	Solid	Pesticide-TCL	Cool 4 deg C	PSEG03	L41	05/12/2025	8081B
Q2014-05	MOO-25-0148	Solid	Pesticide-TCL	Cool 4 deg C	PSEG03	L41	05/12/2025	8081B
Q2017-01	MH-I	Solid	Pesticide-TCL	Cool 4 deg C	PSEG03	L41	05/12/2025	8081B
Q2017-05	MH-J	Solid	Pesticide-TCL	Cool 4 deg C	PSEG03	L41	05/12/2025	8081B

Date/Time 5/13/25 8:25
Raw Sample Received by: RJ (EXT Lab)
Raw Sample Relinquished by: CP SM

Date/Time 5/13/25 9:05
Raw Sample Received by: CP SM
Raw Sample Relinquished by: RJ (EXT Lab)

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

Prep Standard - Chemical Standard Summary

Order ID : Q1984

Test : Pesticide-TCL

Prepbatch ID : PB167959,

Sequence ID/Qc Batch ID: pd051325,pd051525,PD051925,

Standard ID :
EP2611,EP2613,PP24080,PP24081,PP24095,PP24255,PP24256,PP24257,PP24258,PP24259,PP24260,PP24261,PP24262,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284,PP24285,PP24329,PP24433,PP24460,

Chemical ID :
E2865,E3551,E3806,E3843,E3847,E3876,E3877,E3914,E3917,E3932,E3933,P12600,P12603,P 12611,P13037,P13040,P13195,P13245,P13355,P13356,P13404,P13405,P13785,P13861,P9052,W3177,

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

Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2611	05/09/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 05/09/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
230	1:1ACETONE/HEXANE	EP2613	05/09/2025	11/05/2025	RUPESHKUMAR SHAH	None	None	Riteshkumar Patel 05/09/2025

FROM 4000.00000ml of E3932 + 4000.00000ml of E3933 = Final Quantity: 8000.000 ml

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

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3878	1000 PPB TOXAPHENE SPIKE (RESTEK)	PP24080	12/16/2024	06/05/2025	Abdul Mirza	None	None	Ankita Jodhani 12/17/2024

FROM 0.10000ml of P13404 + 99.90000ml of E3843 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1501	1000 ppb CHLORDANE SPIKE (RESTEK)	PP24081	12/16/2024	06/16/2025	Abdul Mirza	None	None	Ankita Jodhani 12/17/2024

FROM 0.10000ml of P12600 = Final Quantity: 100.000 ml

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

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
84	Pest/PCB Surrogate Stock 20 PPM	PP24255	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani 03/12/2025

FROM 1.00000ml of P13785 + 9.00000ml of E3877 = Final Quantity: 10.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3629	20 PPM PEST stock Solution 1st source(RESTEK)	PP24256	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani 03/12/2025

FROM 1.00000ml of P13040 + 9.00000ml of E3877 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1472	20 PPM Pest Stock Solution 2nd Source	PP24257	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani 03/12/2025

FROM 1.00000ml of P13037 + 9.00000ml of E3877 = Final Quantity: 10.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1273	20 PPM Mirex Stock (Primary Source)	PP24258	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani 03/12/2025

FROM 0.20000ml of P9052 + 9.80000ml of E3877 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3663	20 PPM MIREX Stock STD (Secondary source)	PP24259	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani 03/12/2025

FROM 0.20000ml of P13195 + 9.80000ml of E3877 = Final Quantity: 10.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3630	100/100 PPB PEST Working std.1st Source(RESTEK)	PP24260	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani 03/12/2025

FROM 98.50000ml of E3877 + 0.50000ml of PP24255 + 0.50000ml of PP24256 + 0.50000ml of PP24258 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
80	100/100 PPB Pesticide Working Solution 2nd Source	PP24261	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani 03/12/2025

FROM 98.50000ml of E3877 + 0.50000ml of PP24255 + 0.50000ml of PP24257 + 0.50000ml of PP24259 = Final Quantity: 100.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
386	1000/100 PPB Chlordane STD (Restek)	PP24262	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani 03/12/2025

FROM 0.10000ml of P12603 + 99.40000ml of E3877 + 0.50000ml of PP24255 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3746	1000/100 ppb Chlordane STD-RESTEK 2ND SOURCE	PP24266	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani 03/12/2025

FROM 0.10000ml of P12611 + 99.40000ml of E3877 + 0.50000ml of PP24255 = Final Quantity: 100.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
383	1000/100 PPB Toxaphene STD (Restek)	PP24267	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani 03/12/2025

FROM 0.10000ml of P13405 + 99.40000ml of E3877 + 0.50000ml of PP24255 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3669	1000/100 PPB TOXAPHENE STD 2nd source (RESTEK)	PP24268	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani 03/12/2025

FROM 0.10000ml of P13861 + 99.40000ml of E3877 + 0.50000ml of PP24255 = Final Quantity: 100.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3631	75 PPB ICAL PEST STD(RESTEK)	PP24269	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani 03/12/2025

FROM 0.75000ml of E3877 + 0.25000ml of PP24260 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3632	50 PPB ICAL PEST STD(RESTEK)	PP24270	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani 03/12/2025

FROM 0.50000ml of E3877 + 0.50000ml of PP24260 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3633	25 PPB ICAL PEST STD(RESTEK)	PP24271	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani 03/12/2025

FROM 0.75000ml of E3877 + 0.25000ml of PP24260 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3634	5 PPB ICAL PEST STD(RESTEK)	PP24272	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani 03/12/2025

FROM 0.90000ml of E3877 + 0.10000ml of PP24270 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3988	50 PPB PEST ICV STD(RESTEK)	PP24273	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani 03/12/2025

FROM 0.50000ml of E3877 + 0.50000ml of PP24261 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
528	CHLOR 750 PPB STD	PP24274	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani 03/12/2025

FROM 0.25000ml of E3877 + 0.75000ml of PP24262 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
529	CHLOR 500 PPB STD	PP24275	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani 03/12/2025

FROM 0.50000ml of E3877 + 0.50000ml of PP24262 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
530	CHLOR 250 PPB STD	PP24277	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani 03/12/2025

FROM 0.75000ml of E3877 + 0.25000ml of PP24262 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3408	CHLOR 50 PPB STD	PP24278	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani 03/12/2025

FROM 0.90000ml of E3877 + 0.10000ml of PP24275 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
532	CHLOR 500 PPB ICV STD	PP24279	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani 03/12/2025

FROM 0.50000ml of E3877 + 0.50000ml of PP24266 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
533	TOX 750 PPB STD	PP24280	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani 03/12/2025

FROM 0.25000ml of E3877 + 0.75000ml of PP24267 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
534	TOX 500 PPB STD	PP24281	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani 03/12/2025

FROM 0.50000ml of E3877 + 0.50000ml of PP24267 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
535	TOX 250 PPB STD	PP24282	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani 03/12/2025

FROM 0.75000ml of E3877 + 0.25000ml of PP24267 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2217	TOX 100 PPB STD	PP24283	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani 03/12/2025

FROM 0.90000ml of E3877 + 0.10000ml of PP24267 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3670	TOX 500 PPB ICV std (RESTEK)	PP24284	03/11/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani 03/12/2025

FROM 0.50000ml of E3877 + 0.50000ml of PP24268 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
79	500 PPB Pesticide Spike Solution	PP24285	03/12/2025	08/12/2025	Abdul Mirza	None	None	Ankita Jodhani 03/12/2025

FROM 95.00000ml of E3876 + 2.50000ml of PP24257 + 2.50000ml of PP24259 = Final Quantity: 100.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
84	Pest/PCB Surrogate Stock 20 PPM	PP24329	03/18/2025	08/22/2025	Yogesh Patel	None	None	Abdul Mirza 04/03/2025

FROM 1.00000ml of P13356 + 9.00000ml of W3177 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
518	Pest/PCB I.BLK 20 PPB	PP24433	03/31/2025	08/22/2025	Abdul Mirza	None	None	Yogesh Patel 04/02/2025

FROM 99.90000ml of E3914 + 0.10000ml of PP24329 = Final Quantity: 100.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
465	200 PPB Pest/PCB Surrogate Spike	PP24460	04/11/2025	10/03/2025	Abdul Mirza	None	None	Yogesh Patel 04/16/2025

FROM 1.00000ml of P13355 + 999.00000ml of E3917 = Final Quantity: 1000.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	06/30/2025	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

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 #
Agela Technologies Inc.	FS0006 / Cleanert Florisil cartridge	M06518	09/25/2025	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-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-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	08/25/2025	02/25/2025 /	02/12/2025 / Rajesh	E3876

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-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-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	243570	09/19/2025	03/19/2025 / RUPESH	03/13/2025 / RUPESH	E3914

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	10/03/2025	04/03/2025 / Rajesh	03/31/2025 / Rajesh	E3917

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	11/05/2025	05/05/2025 / RUPESH	04/23/2025 / RUPESH	E3932

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362005	11/05/2025	05/05/2025 / RUPESH	04/23/2025 / RUPESH	E3933

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32021 / Chlordane Std.	A0193299	06/16/2025	12/16/2024 / Abdul	07/03/2023 / Abdul	P12600

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32021 / Chlordane Std.	A0197993	09/11/2025	03/10/2025 / Abdul	07/03/2023 / Abdul	P12603

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32021 / Chlordane Std.	A0193299	09/09/2025	03/10/2025 / Abdul	07/03/2023 / Abdul	P12611

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	09/10/2025	03/10/2025 / Abdul	12/26/2023 / Abdul	P13037

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	09/10/2025	03/10/2025 / Abdul	12/26/2023 / Abdul	P13040

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	79136 / Mirex, 1000 ug/ml	042022	09/10/2025	03/10/2025 / Abdul	01/17/2024 / Abdul	P13195

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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL	A0206810	10/11/2025	04/11/2025 / Abdul	04/22/2024 / Abdul	P13355

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	09/18/2025	03/18/2025 / yogesh	04/22/2024 / Abdul	P13356

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32005 / Toxaphene Standard	A0203038	06/16/2025	12/16/2024 / Abdul	05/15/2024 / Abdul	P13404

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32005 / Toxaphene Standard	A0203038	09/09/2025	03/10/2025 / Abdul	05/15/2024 / Abdul	P13405

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	A0214495	09/10/2025	03/10/2025 / Abdul	11/19/2024 / Ankita	P13785

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32005 / Toxaphene Standard	A0210240	09/10/2025	03/10/2025 / Abdul	12/09/2024 / Abdul	P13861

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	79136 / Mirex, 1000 ug/ml	112018	09/10/2025	03/10/2025 / Abdul	11/01/2019 / Stephen	P9052

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	08/22/2025	02/03/2025 / jignesh	01/31/2025 / jignesh	W3177

RESTEK
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Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
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CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

P12596 (7) → P12602

7/3/2023

Catalog No. : 32021 **Lot No.:** A0193299

Description : Chlordane Standard

Chlordane Standard 1000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2029 **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	Chlordane 10% trans-Chlordane; 9% cis-Chlordane; 81% other isomers	57-74-9	978545	----%	1,010.0 µg/mL	+/- 56.0475

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

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

Tech Tips:
CAS #57-74-9 nomenclature is based on EPA method 8081B.

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.)

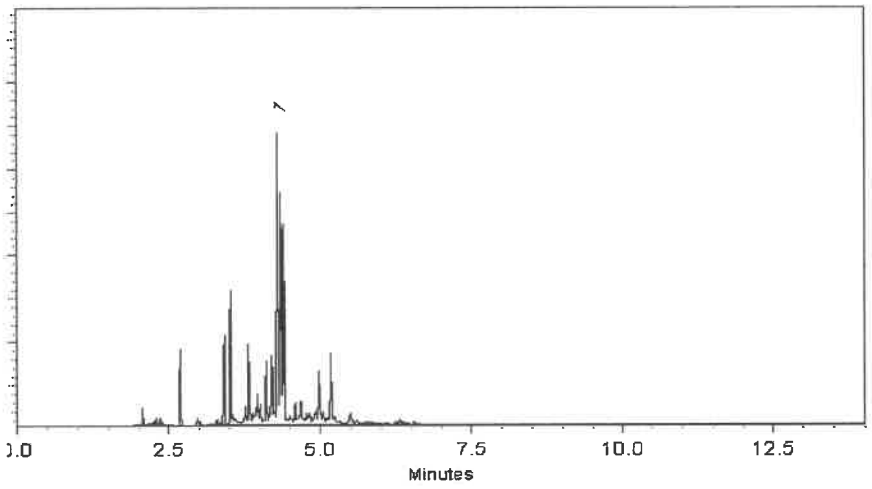
Inj. Temp:
250°C

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.

Bryan Snyder - Operations Tech I

Date Mixed: 06-Jan-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jan-2023

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

Sand
Purified
Washed and Ignited

avantor™ | J.T.Baker®

Material No.: 3382-05
Batch No.: 0000243821
Manufactured Date: 2018/04/09
Retest Date: 2025/04/07
Revision No: 1

Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	<= 0.16 %	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

E 2865

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO_4)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RG-02-01, Ed. 3

Recd. by RI on 7/24/23 E3551

Cleanert Florisil
1g/6ml 30/pkg
固相萃取产品
LOT#:M06518
MFG#:F04074
CAT# FS0006
Made in China
Agela Technologies
E3806

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date:2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

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

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

Recd. by RP on 12/5/24

E 3843

J Croak
Jamie Croak
Director Quality Operations, Bioscience Production

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

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

avantor™ | J.T.Baker®

Material No.: 9262-03
Batch No.: 24G1962003
Manufactured Date: 2024-05-23
Expiration Date: 2025-08-22
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H_2SO_4	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

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

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

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.

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 RS on 3/14/25

E3914

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.

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date:2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

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

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

Recd by RP on 03/31/25

E3917

JCroak
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™ | J.T.Baker

Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date:2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

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

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

E 3932

JCroak
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

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

avantor™ | J.T.Baker

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

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	<= 5	5
Assay (Total Saturated C_6 Isomers) (byGC, corrected for water)	>= 99.5 %	100.0 %
Assay (as n-Hexane) (by GC, correctedfor water)	>= 95 %	100 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.1 ppm
Substances Darkened by H_2SO_4	Passes Test	Passes Test
Water (by KF, coulometric)	<= 0.05 %	<0.01 %

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

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

E3933

JCroak
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

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

P12614 & P12615 Five

7/3/2023

Catalog No. : 32021 **Lot No.:** A0193299

Description : Chlordane Standard

Chlordane Standard 1000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2029 **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	Chlordane 10% trans-Chlordane; 9% cis-Chlordane; 81% other isomers	57-74-9	978545	----%	1,010.0 µg/mL	+/- 56.0475

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

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

Tech Tips:
CAS #57-74-9 nomenclature is based on EPA method 8081B.

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.)

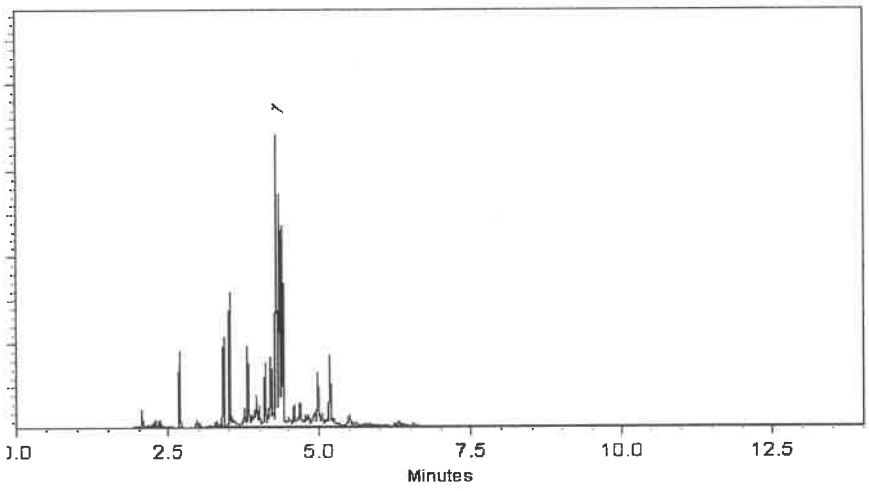
Inj. Temp:
250°C

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.

Bryan Snyder - Operations Tech I

Date Mixed: 06-Jan-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jan-2023

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

P12691 ↓ P12695

7/3/2023

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

P130397 } 5
↓
P130431

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

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 5
↓
P 13043 1
12/26/23

Quality Confirmation Test

Column:
30m x .25mm x .2um
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.)

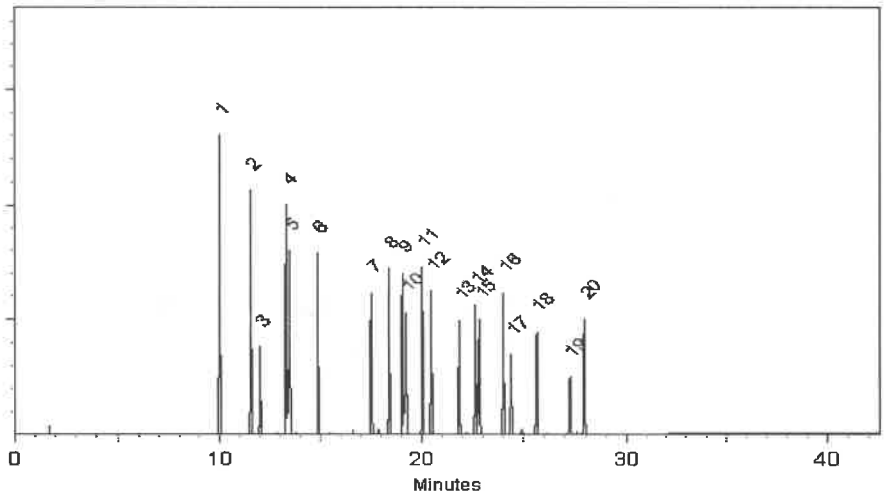
Inj. Temp:
200°C

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 - Operations Technician I

Date Mixed: 19-Jun-2023 **Balance Serial #** 1128360905

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 79136
Lot Number: 042022
Description: Mirex

Solvent(s): Acetone **Lot#** 81025

Expiration Date: 042027
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty
0.006 Flask Uncertainty

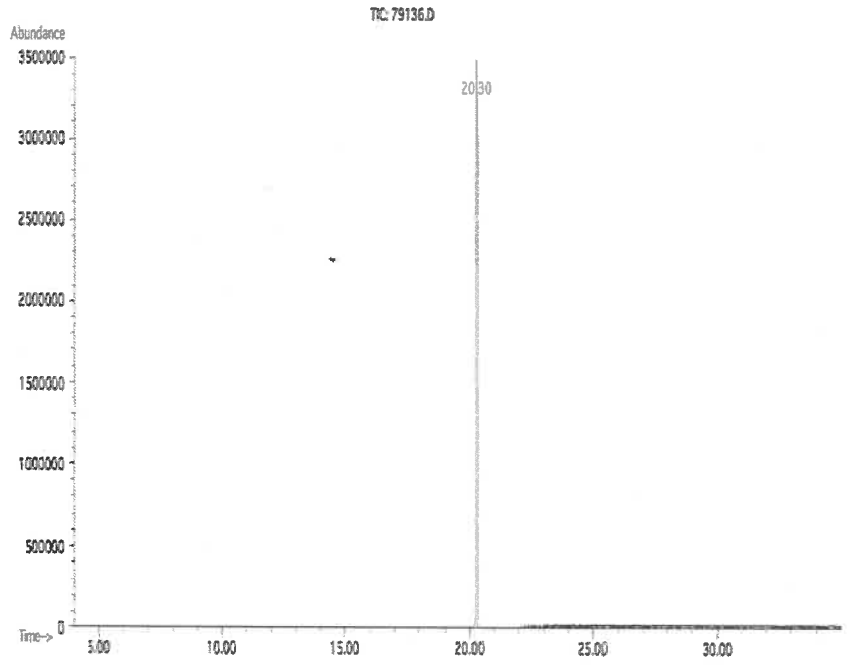
Weight(s) shown below were combined and diluted to (mL): 50.0

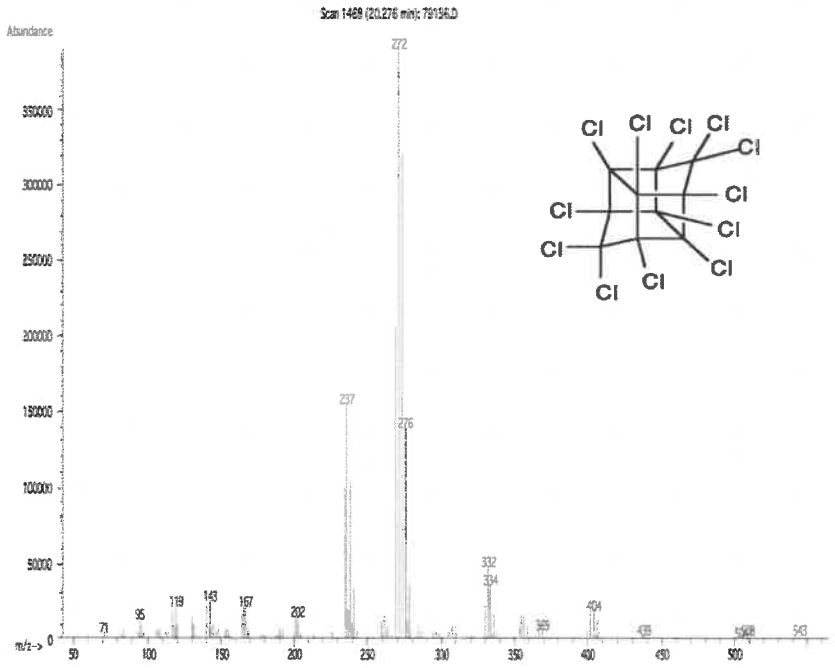
Formulated By: Prashant Chauhan 042022 DATE

Reviewed By: Pedro L. Rentas 042022 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	0.05040	1001.1	10.3	2385-85-5	N/A	orl-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.





P13195
↓
P13199
↓
(5)
|

01/17/2024

- 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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P12603 (3) → P12605

7/3/2023

Catalog No. : 32021 **Lot No.:** A0197993

Description : Chlordane Standard

Chlordane Standard 1000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **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	Chlordane 10% trans-Chlordane; 9% cis-Chlordane; 81% other isomers	57-74-9	978545	----%	1,005.0 µg/mL	+/- 55.7700

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

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

Tech Tips:
CAS #57-74-9 nomenclature is based on EPA method 8081B.

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.)

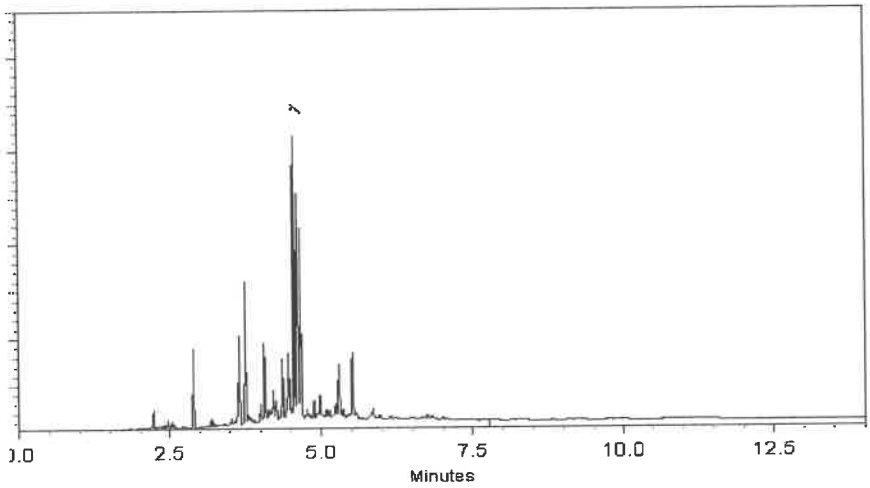
Inj. Temp:
250°C

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.

Morgan Craighead - Mix Technician

Date Mixed: 11-May-2023 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-May-2023

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

P 12603 & P 12605 (3)

7/3/2023

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P 13034 } 5
P 13038 }

12.26.2023

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

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) 5
↓
P13038 1

12/26/2023

Quality Confirmation Test

Column:
30m x .25mm x .2um
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.)

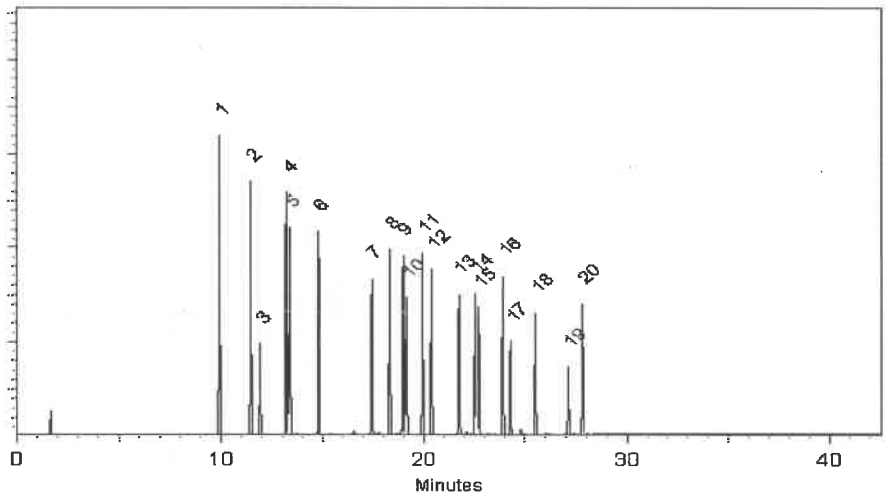
Inj. Temp:
200°C

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 - Operations Tech I

Date Mixed: 31-Jul-2023 **Balance Serial #** B442140311

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 19161
Lot Number: 013124
Description: CLP Pesticides & PCB's Resolution Check Standard
9 components

Solvent(s):	Lot#	
Hexane	273615	(50%)
Toluene	28508	(50%)

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 ± 0.021 Flask Uncertainty (5E-05 Balance Uncertainty)

Formulated By:	Lawrence Barry	013124 DATE
Reviewed By:	Pedro L. Rentas	013124 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)	orl-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)	orl-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	orl-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)	orl-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	orl-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	orl-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

P13243 & P13247 (5)

02/9/2024

- 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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P13348 (10) → P13357

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

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:
hellum-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

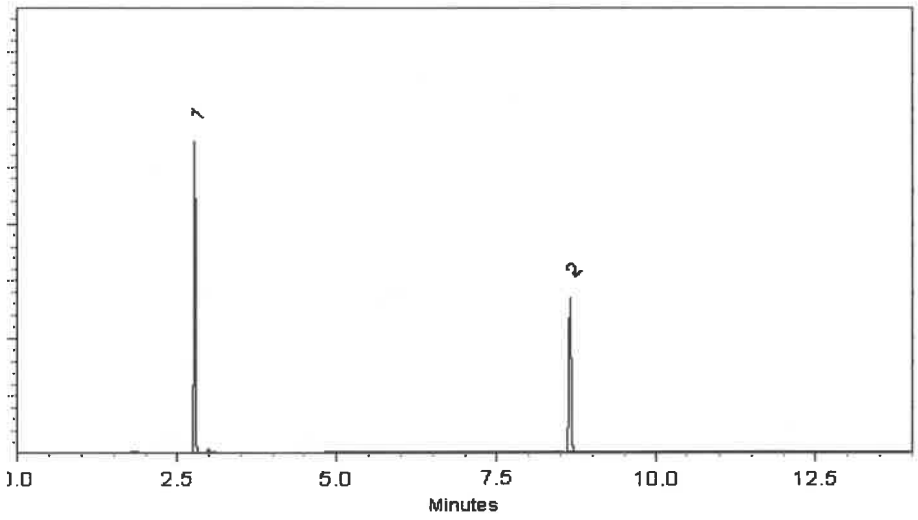
Inj. Temp:
250°C

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 (10)
↓
P13357
SALF
04/25/2025

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P13348 (10)
↓
P13357

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

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:
hellum-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

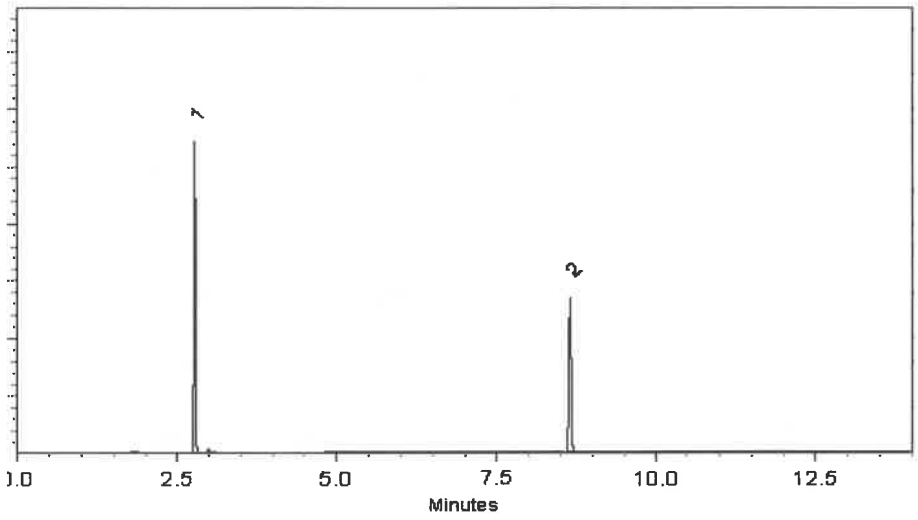
Inj. Temp:
250°C

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

P13348 (10)
↓
P13357
04/25/2025

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P13402 & P13406 (5)

5/22/2021

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%

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.)

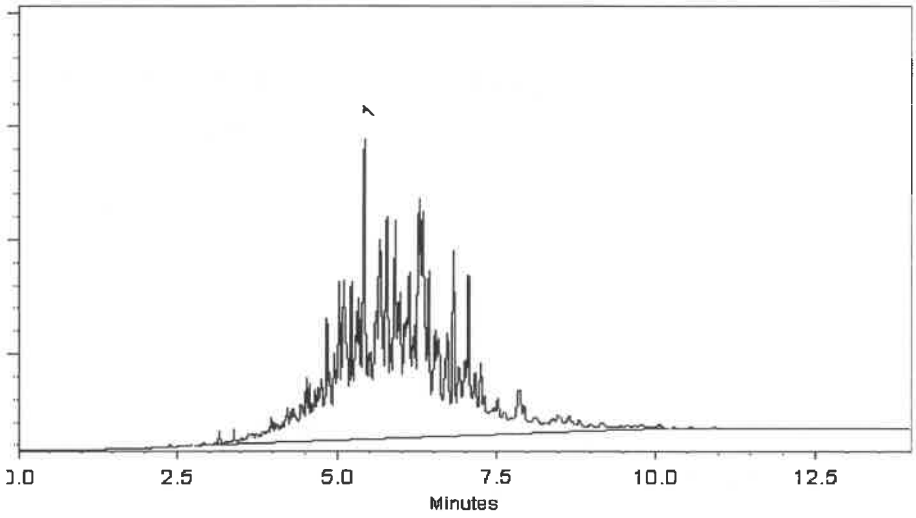
Inj. Temp:
250°C

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

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Certificate of Analysis

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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.

P13402 & P13406 (5)

5/22/2021

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%

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.)

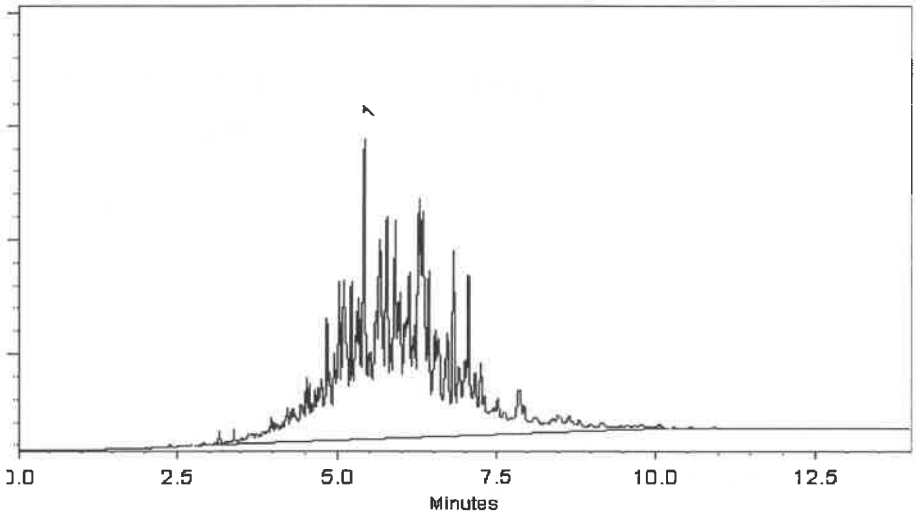
Inj. Temp:
250°C

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

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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.:** A0214495

Description : Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2030 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use. **Ship:** Ambient

P13785 ↓ P13789 AJ 11/19/24

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%	200.2 µg/mL	+/- 11.1087
2	Decachlorobiphenyl (BZ# 209)	2051-24-3	30679	99%	201.4 µg/mL	+/- 11.1753

* 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.)

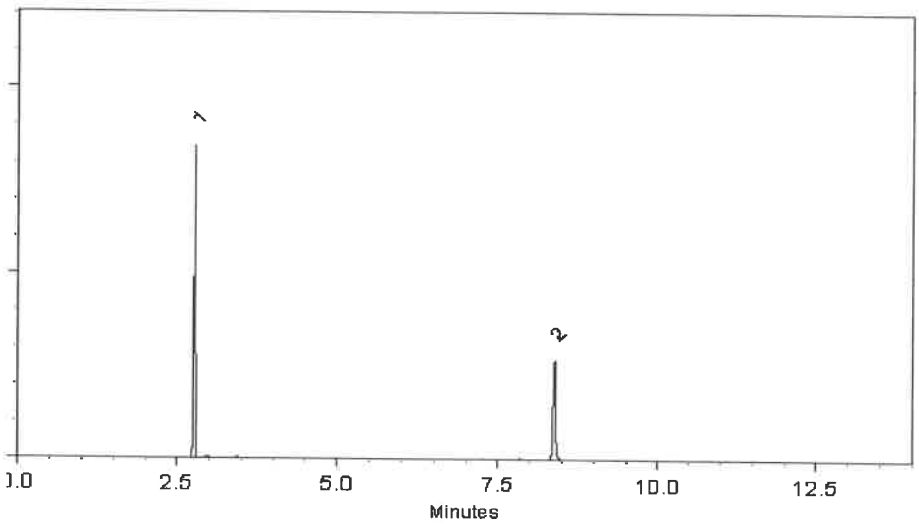
Inj. Temp:
250°C

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.

Aaron Enyart - Operations Tech I

Date Mixed: 29-Jul-2024 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 01-Aug-2024

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

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32005 **Lot No.:** A0210240

Description : Toxaphene Standard

Toxaphene Standard 1000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 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	----%	1,009.3 µg/mL	+/- 56.0105

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

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

P13861
P13862 (2)

12/9/2024

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.)

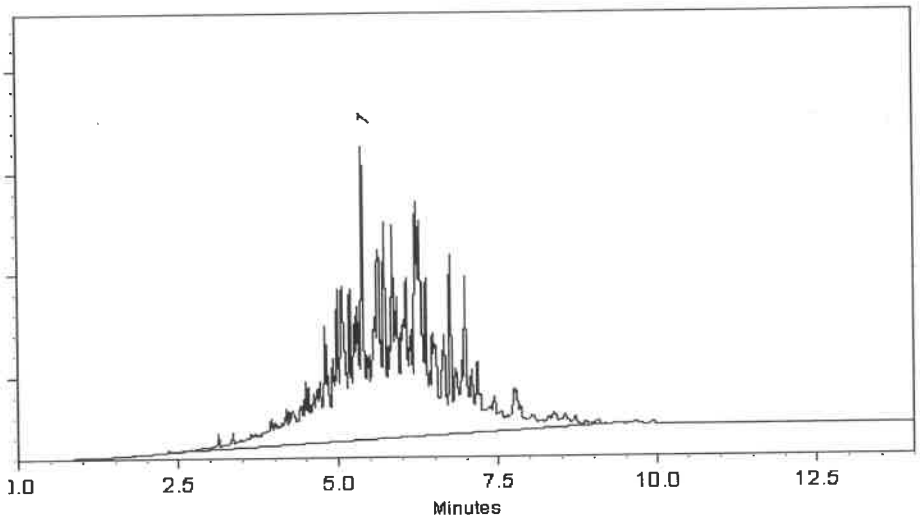
Inj. Temp:
250°C

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.

Amanda Miller - Operations Tech III - ARM QC

Date Mixed: 11-Apr-2024 **Balance Serial #** B442140311

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 26-Apr-2024

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

P13861 } (2
P13862 }

12/9/2024

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ISO 17034 Accredit
Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part Number: 72072
Lot Number: 112018
Description: n-Tetracosane-d50

Expiration Date: 112028
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 2684186
Weight(s) shown below were combined and diluted to (mL): 200.0

Solvent(s):	Lot#
Methylene chloride	102669

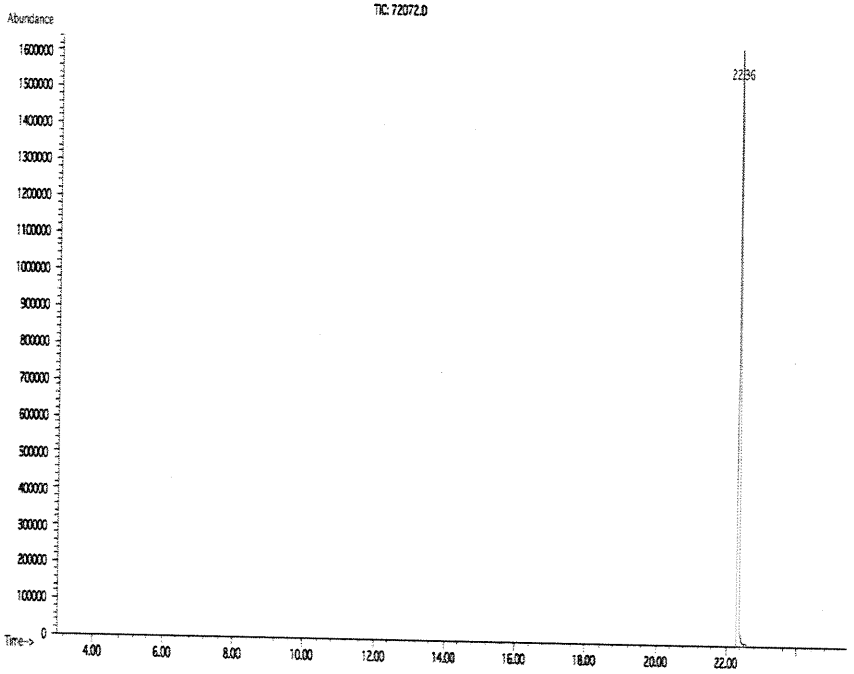
Received by SG on 11/1/19
P9044 - P9053

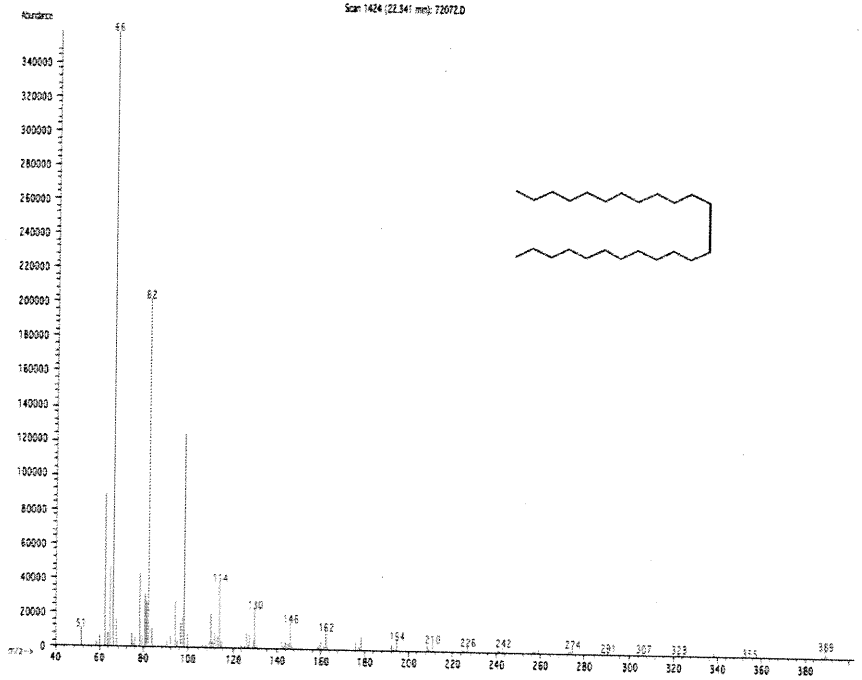
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Prashant Chauhan	112018 DATE
Reviewed By:	Pedro Rentas	112018 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. n-Tetracosane-d50	2072	PR-17753/09216TC1	1000	98	0.2	0.20411	0.20415	1000.2	4.2	16416-32-3	N/A	N/A

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.





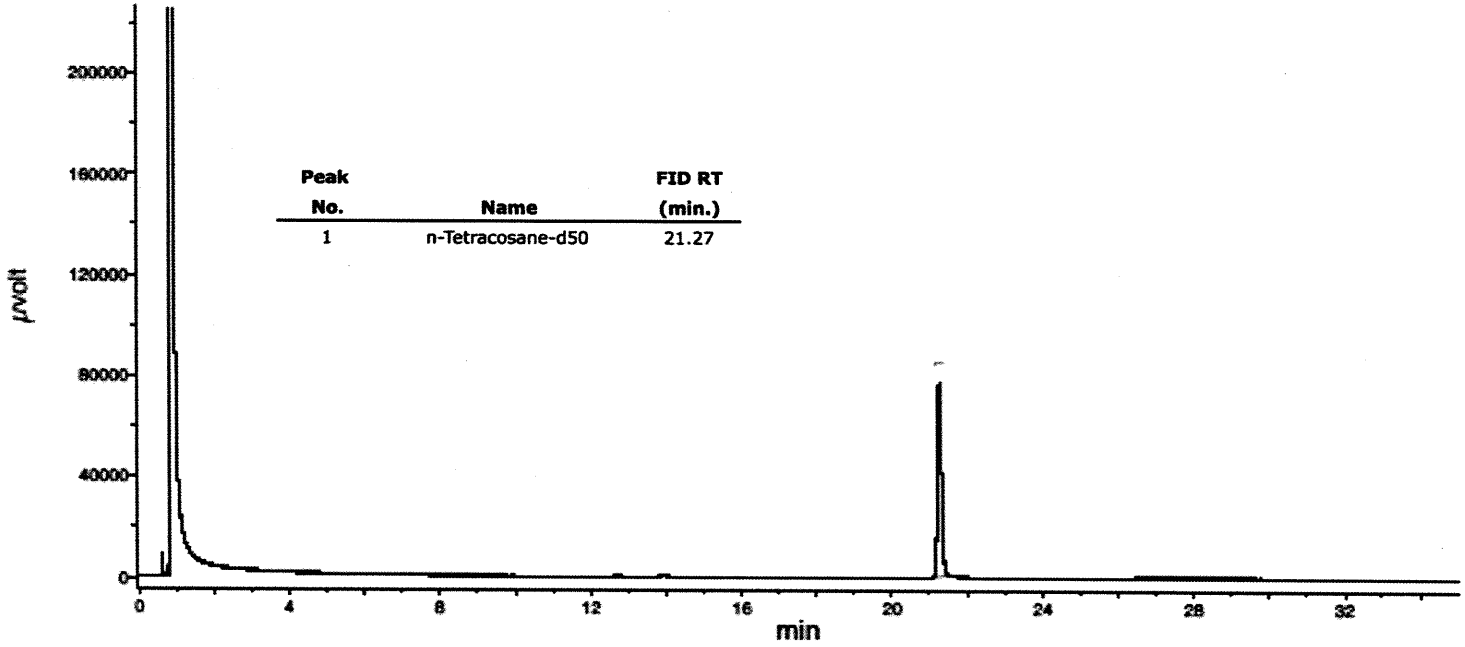
- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, 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).

Run 40, "P72072 L112018 [1000µg/mL in MeCl2]"

Run Length: 35.00 min, 20999 points at 10 points/second.
Created: Thu, Nov 22, 2018 at 7:23:18 AM.
Sampled: Sequence "112018-GC4M1", Method "GC4-M1".
Analyzed using Method "GC4-M1".

Comments

GC4-M1 Analysis by Melissa Stonier
Column ID SPB5 L#60062-01A : 30 meter x 0.53mm x 1.5um Film Thickness
Flow rates; Total Flow = 300 ml/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL, Hydrogen (detector) = 30 mL, Air (detector) =360 mL
Oven Temp 1 = 50°C (1 min), Rate = 10°C/min, Oven Temp 2 = 300°C (9 min), Total Run Time = 35 Minutes.
Injector Temp = 200°C, FID Temp = 300°C, FID Signal = eDaq Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 uL, Range = 3



Peak No.	Name	FID RT (min.)
1	n-Tetracosane-d50	21.27

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

avantor™ | J.T.Baker®

W3147
W3147 update. 02/03/2025 JP

Material No.: 9262-03
Batch No.: 24G1962003
Manufactured Date: 2024-05-23
Expiration Date: 2025-08-22
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H_2SO_4	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

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

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

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

SHIPPING DOCUMENTS

Q1984

Chemtech

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

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

Doc # 381 Rev 4_01/08/2020

39 Spruce Street
East Longmeadow, MA 01028

Page __1__ of __1__

Company Name:	Nobis Group
Address:	55 Technology Dr Suite 101, Lowell, MA 01851
Phone:	978-703-6014
Project Name:	Raymark
Project Location:	Stratford, CT
Project Number:	95700
Project Manager:	Adam Roy
Con-Test Quote Name/Number:	
Invoice Recipient:	
Sampled By:	C. Odell

Requested Turnaround Time
5-Day ☐ 10-Day ☑
PFAS 10-Day (std) ☐ Due Date:

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Deliverables
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐ No
Email To: aroy@nobis-group.com
Fax To #:

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

PCB ONLY
SOXHLET ☑
NON SOXHLET ☐

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	M/O	RCP VOCs	% Solids	PAHs	Herbicides	Pesticides	PCBs	Metals ICP + Hg - 6010	Cyanide	SPLP RCP Metals - 6020
	OU4-PCS-TC-33-050725	5/7/25	0950	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-PCS-TC-34-050725	5/7/25	1000	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-PCS-TC-35-050725	5/7/25	1015	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-TS-24-050725	5/7/25	1130	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-TS-25-050725	5/7/25	1135	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-TS-26-050725	5/7/25	1140	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-TS-27-050725	5/7/25	1145	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-TS-28-050725	5/7/25	1150	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-TB01-050725 ↓		0800	—	—		3						X								

[2] Preservation Code

Total Number Of:
VIALS
GLASS
PLASTIC
BACTERIA
ENCORE

Glassware in the fridge? Y / N

Glassware in freezer? Y / N

Prepackaged Cooler? Y / N

*Contest is not responsible for missing samples from prepacked coolers

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

Relinquished by: (signature)	Date/Time: 5/7/25 1430	Client Comments:
Received by: (signature)	Date/Time: 5-8-25 0930	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Detection Limit Requirements
MA
CT
Other

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☑ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

Project Entity
Government ☐ Municipality ☐ MWRA ☐ WRTA ☐
Federal ☐ 21 J ☐ School ☐
City ☐ Brownfield ☐ MBTA ☐

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

Lab Comments:
1.9°C
Adjust Factor +1
IL (Jw #1

Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Con-Test values your partnership on each project and will try to assist with missing information, but will not be held accountable.

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1984 NOBI03
Client Name : Nobis Group
Client Contact : Adam Roy
Invoice Name : Nobis Group
Invoice Contact : Adam Roy

Order Date : 5/8/2025 10:48:00 AM
Project Name : Raymark Superfund Site
Receive DateTime : 5/8/2025 9:50:00 AM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1984-01	OU4-PCS-TC-33-050725	Solid	05/07/2025	09:50					
					VOCMS Group3		8260D		10 Bus. Days
Q1984-03	OU4-PCS-TC-34-050725	Solid	05/07/2025	10:00					
					VOCMS Group3		8260D		10 Bus. Days
Q1984-05	OU4-PCS-TC-35-050725	Solid	05/07/2025	10:15					
					VOCMS Group3		8260D		10 Bus. Days
Q1984-07	OU4-TS-24-050725	Solid	05/07/2025	11:30					
					VOCMS Group3		8260D		10 Bus. Days
Q1984-09	OU4-TS-25-050725	Solid	05/07/2025	11:35					
					VOCMS Group3		8260D		10 Bus. Days
Q1984-11	OU4-TS-26-050725	Solid	05/07/2025	11:40					
					VOCMS Group3		8260D		10 Bus. Days
Q1984-13	OU4-TS-27-050725	Solid	05/07/2025	11:45					
					VOCMS Group3		8260D		10 Bus. Days
Q1984-15	OU4-TS-28-050725	Solid	05/07/2025	11:50					

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1984 NOBI03
Client Name : Nobis Group
Client Contact : Adam Roy
Invoice Name : Nobis Group
Invoice Contact : Adam Roy

Order Date : 5/8/2025 10:48:00 AM
Project Name : Raymark Superfund Site
Receive DateTime : 5/8/2025 9:50:00 AM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
					VOCMS Group3		8260D	10 Bus. Days		
Q1984-19	OU4-TB01-050725	Water	05/07/2025	08:00						
					VOCMS Group1		~~8260 Low~~ 8260D	10 Bus. Days		

Relinguished By : [signature]
Date / Time : 5/8/25 1150

Received By : [signature]
Date / Time : 5/8/25 1150

Storage Area : VOA Refridgerator Room

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088122.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 13:29
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PEM

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 06:41:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	System Monitoring Compounds							
1)	SA Tetrachlo...	3.551	2.883	43154195	324.6E6	21.605	22.198	
28)	SA Decachlor...	9.075	8.076	76807188	424.1E6	23.218	22.951	
	Target Compounds							
2)	A alpha-BHC	4.000	3.396	42909357	267.8E6	9.951	11.716	
3)	MA gamma-BHC...	4.331	3.732	43874391	249.5E6	10.477	11.583	
5)	MB Aldrin	0.000	4.366	0	1288330	N.D.	0.062	#
6)	B beta-BHC	4.516	4.028	18444986	115.3E6	11.362	12.462	
7)	B delta-BHC	4.779	4.263	5275240	837549	1.279	0.039	#
8)	B Heptachlo...	5.683	4.874	813698	535696	0.228	0.028	#
9)	A Endosulfan I	0.000	5.247	0	794892	N.D.	0.044	#
10)	B gamma-Chl...	5.928f	5.129	321937	1205564	0.089	0.059	#
11)	B alpha-Chl...	6.006f	5.191	80454	1030998	0.022	0.053	#
12)	B 4,4'-DDE	6.200	5.380	353839	1439068	0.107	0.073	#
13)	MA Dieldrin	0.000	5.511	0	571550	N.D.	0.029	#
14)	MA Endrin	6.576	5.793	153.7E6	906.1E6	51.526	49.780	
15)	B Endosulfa...	6.771f	6.090	1258288	2549343	0.402	0.145	#
16)	A 4,4'-DDD	6.708	5.937	640061	5421580	0.255	0.331	#
17)	MA 4,4'-DDT	7.023	6.187	306.9E6	1746.0E6	110.509	102.608	
18)	B Endrin al...	6.915	6.262	3420195	27341768	1.482	2.056	#
19)	B Endosulfa...	0.000	6.481	0	1203169	N.D.	0.070	#
20)	A Methoxychlor	7.494	6.758	397.5E6	1966.3E6	265.100	215.579	
21)	B Endrin ke...	7.630	6.994	5091664	42676688	1.650	2.282	#
22)	Mirex	0.000	7.180	0	2732226	N.D.	0.184	#
23)	Chlordane-1	0.000	3.901	0	632650	N.D.	0.789	#
24)	Chlordane-2	0.000	4.481	0	618639	N.D.	0.750	#
25)	Chlordane-3	5.928	5.129	321937	1205564	0.477	0.477	
26)	Chlordane-4	6.006f	5.191	80454	1030998	0.099	0.482	#
27)	Chlordane-5	0.000	6.090	0	2549343	N.D.	2.640	#

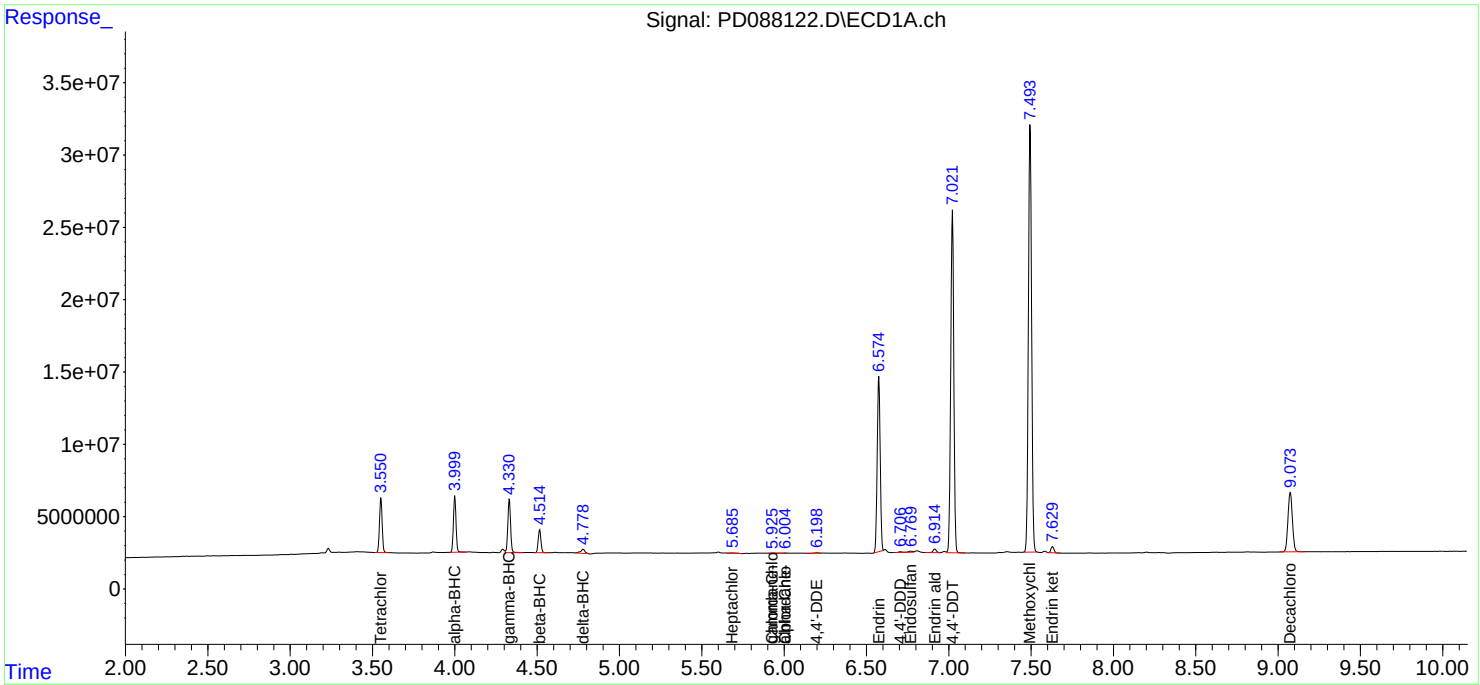
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

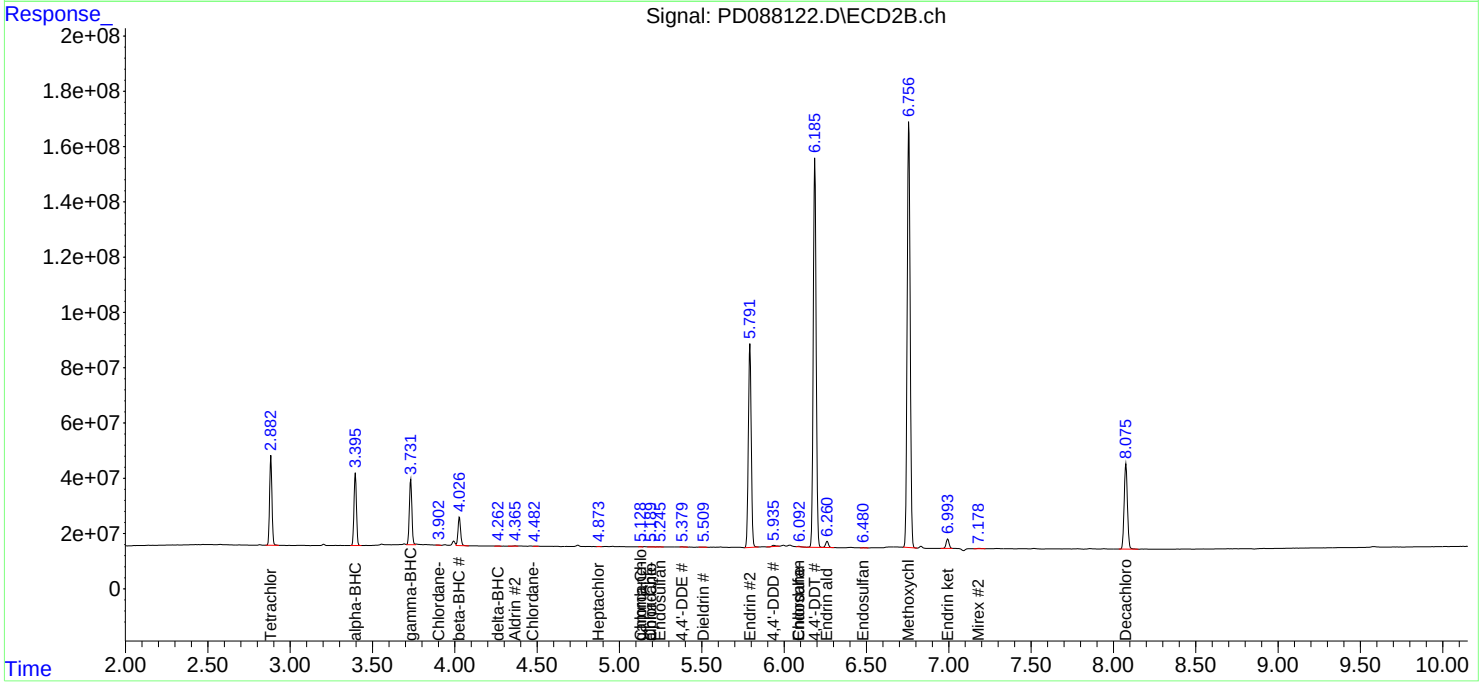
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088122.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 13:29
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

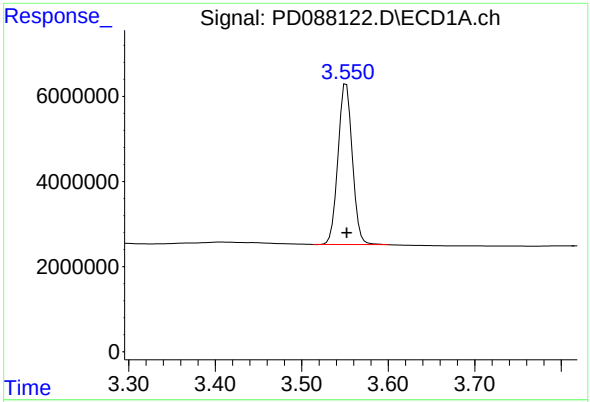
Instrument :
ECD_D
ClientSampleId :
PEM

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 06:41:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



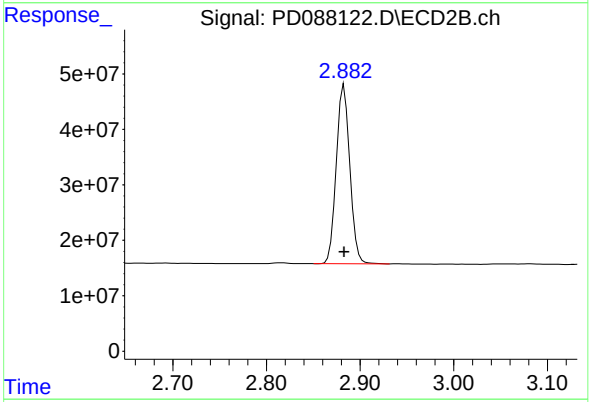




#1 Tetrachloro-m-xylene

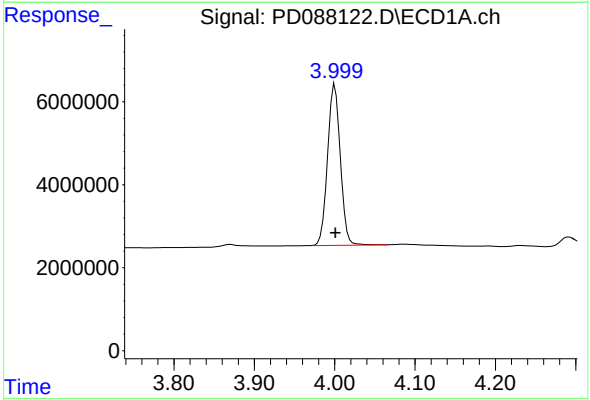
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 43154195
Conc: 21.61 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



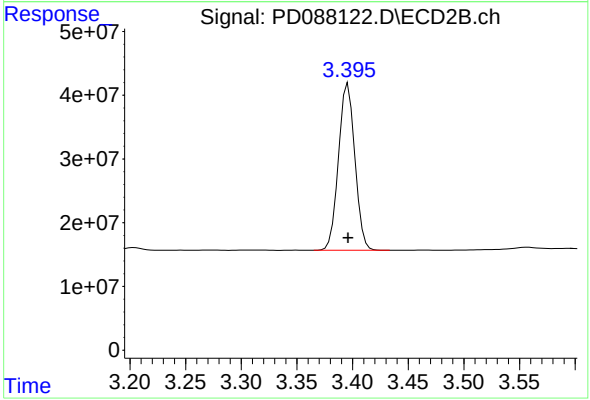
#1 Tetrachloro-m-xylene

R.T.: 2.883 min
Delta R.T.: 0.000 min
Response: 324567676
Conc: 22.20 ng/ml



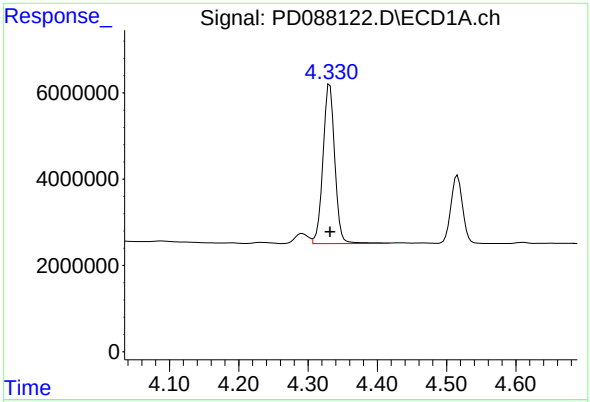
#2 alpha-BHC

R.T.: 4.000 min
Delta R.T.: 0.000 min
Response: 42909357
Conc: 9.95 ng/ml



#2 alpha-BHC

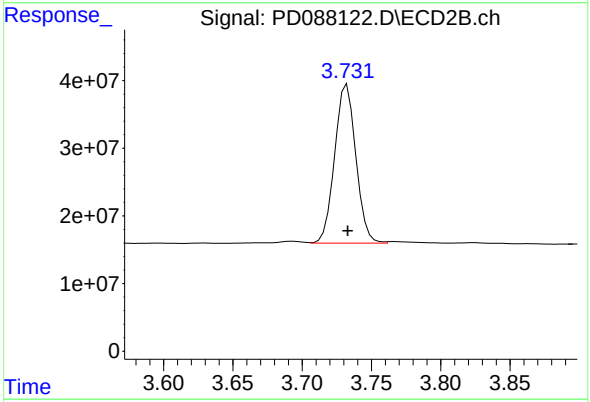
R.T.: 3.396 min
Delta R.T.: 0.000 min
Response: 267840155
Conc: 11.72 ng/ml



#3 gamma-BHC (Lindane)

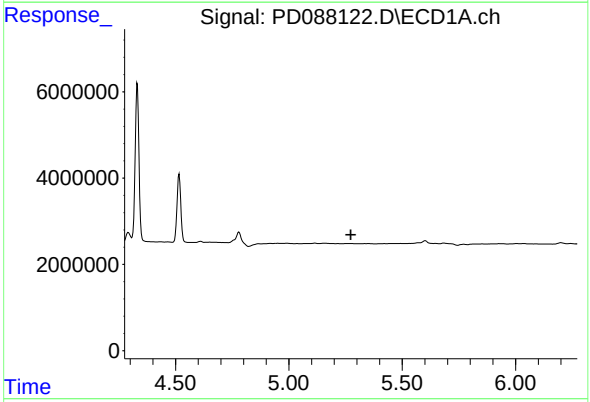
R.T.: 4.331 min
Delta R.T.: 0.000 min
Response: 43874391
Conc: 10.48 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



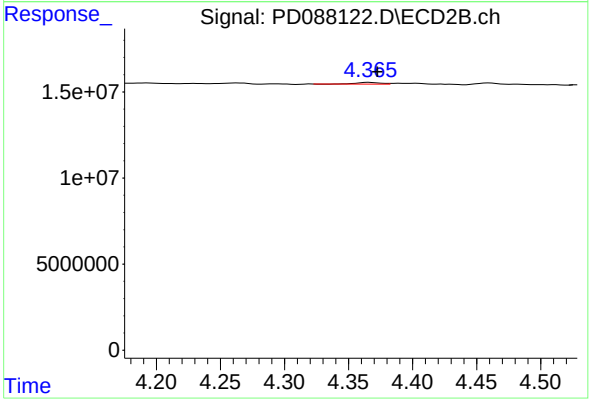
#3 gamma-BHC (Lindane)

R.T.: 3.732 min
Delta R.T.: 0.000 min
Response: 249483869
Conc: 11.58 ng/ml



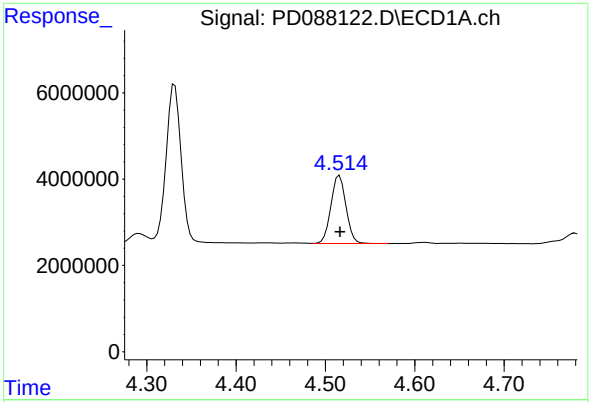
#5 Aldrin

R.T.: 0.000 min
Exp R.T. : 5.273 min
Response: 0
Conc: N.D.



#5 Aldrin

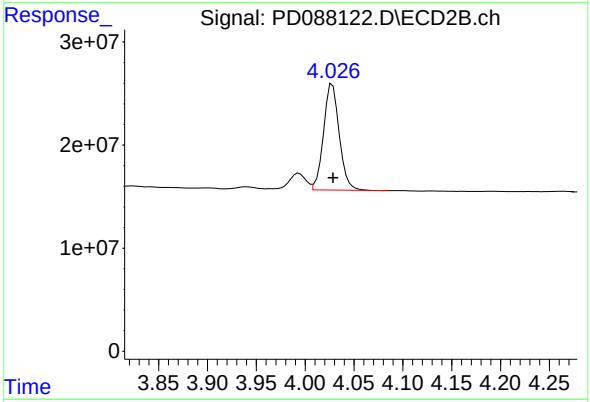
R.T.: 4.366 min
Delta R.T.: -0.006 min
Response: 1288330
Conc: 0.06 ng/ml



#6 beta-BHC

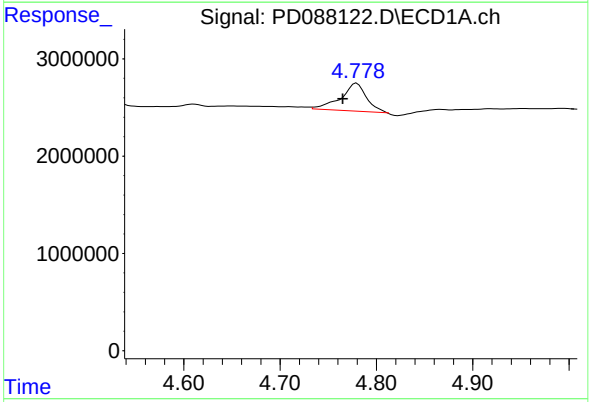
R.T.: 4.516 min
Delta R.T.: 0.000 min
Response: 18444986
Conc: 11.36 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



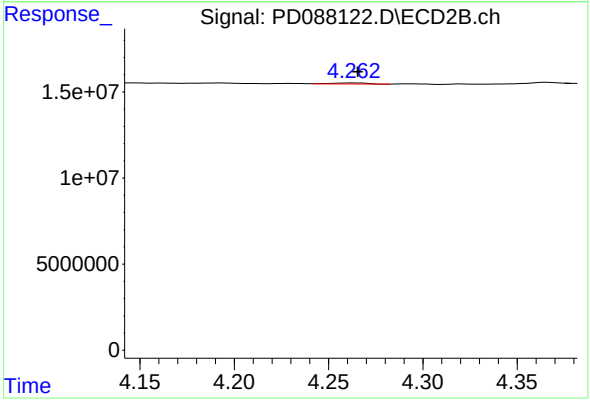
#6 beta-BHC

R.T.: 4.028 min
Delta R.T.: 0.000 min
Response: 115325342
Conc: 12.46 ng/ml



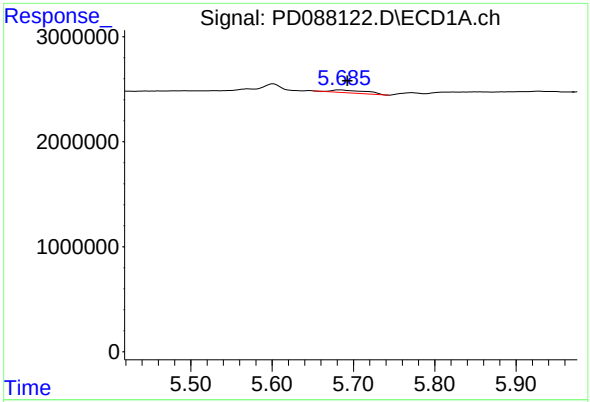
#7 delta-BHC

R.T.: 4.779 min
Delta R.T.: 0.014 min
Response: 5275240
Conc: 1.28 ng/ml



#7 delta-BHC

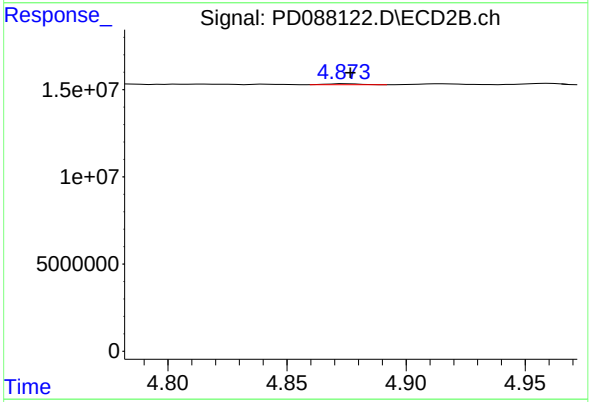
R.T.: 4.263 min
Delta R.T.: -0.002 min
Response: 837549
Conc: 0.04 ng/ml



#8 Heptachlor epoxide

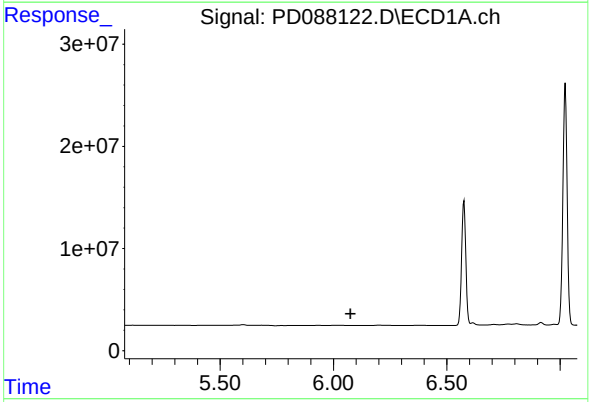
R.T.: 5.683 min
Delta R.T.: -0.009 min
Response: 813698
Conc: 0.23 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



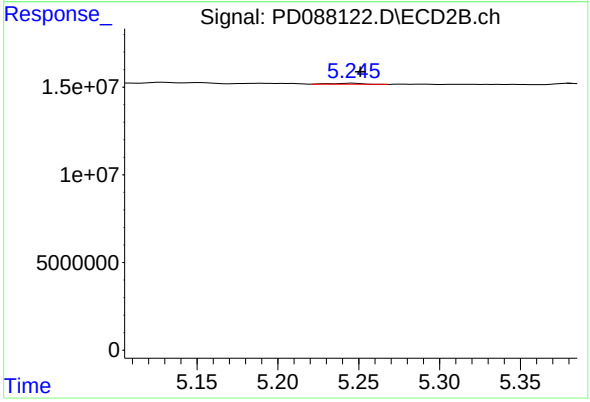
#8 Heptachlor epoxide

R.T.: 4.874 min
Delta R.T.: -0.002 min
Response: 535696
Conc: 0.03 ng/ml



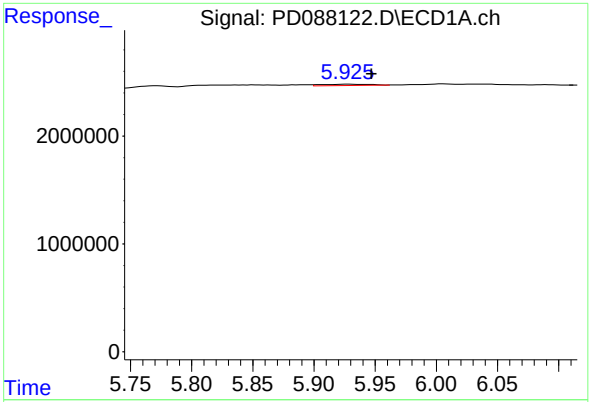
#9 Endosulfan I

R.T.: 0.000 min
Exp R.T. : 6.076 min
Response: 0
Conc: N.D.



#9 Endosulfan I

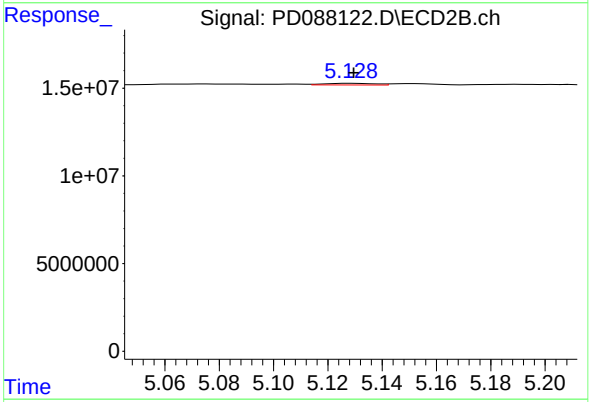
R.T.: 5.247 min
Delta R.T.: -0.004 min
Response: 794892
Conc: 0.04 ng/ml



#10 gamma-Chlordane

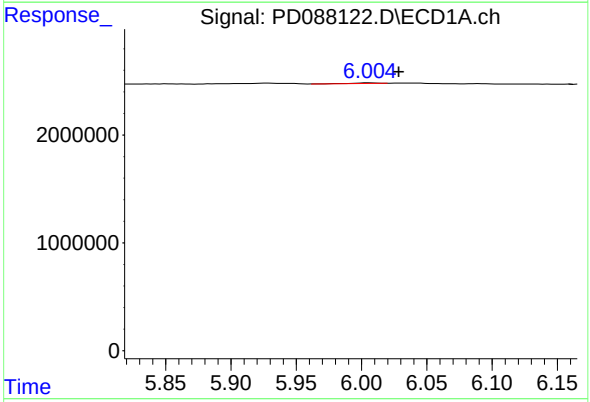
R.T.: 5.928 min
Delta R.T.: -0.019 min
Response: 321937
Conc: 0.09 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



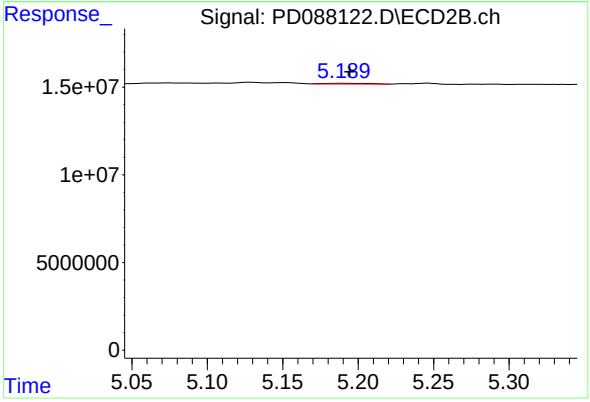
#10 gamma-Chlordane

R.T.: 5.129 min
Delta R.T.: 0.000 min
Response: 1205564
Conc: 0.06 ng/ml



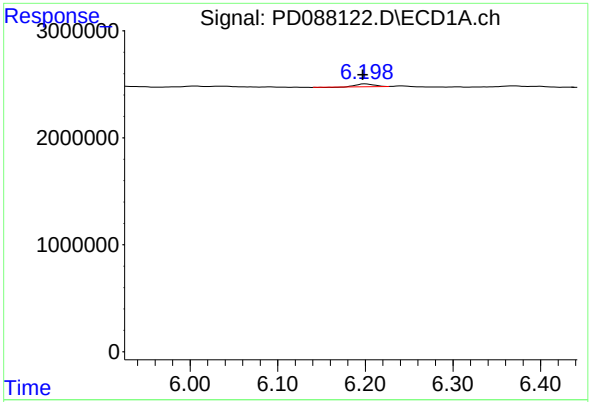
#11 alpha-Chlordane

R.T.: 6.006 min
Delta R.T.: -0.023 min
Response: 80454
Conc: 0.02 ng/ml



#11 alpha-Chlordane

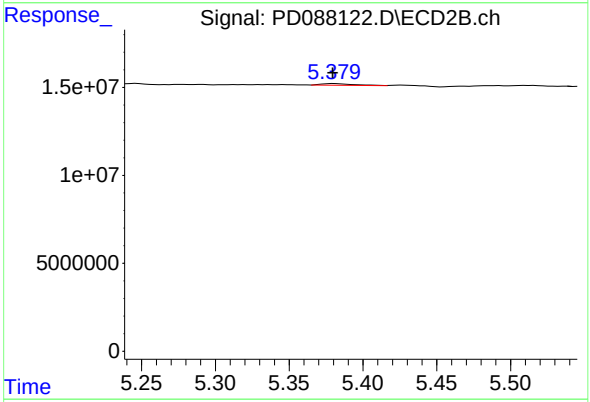
R.T.: 5.191 min
Delta R.T.: -0.004 min
Response: 1030998
Conc: 0.05 ng/ml



#12 4,4'-DDE

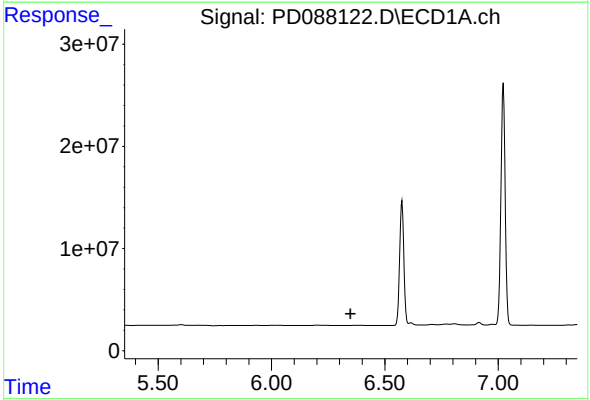
R.T.: 6.200 min
Delta R.T.: 0.003 min
Response: 353839
Conc: 0.11 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



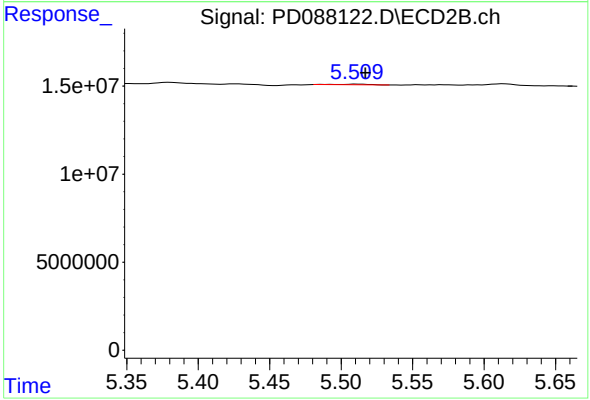
#12 4,4'-DDE

R.T.: 5.380 min
Delta R.T.: 0.000 min
Response: 1439068
Conc: 0.07 ng/ml



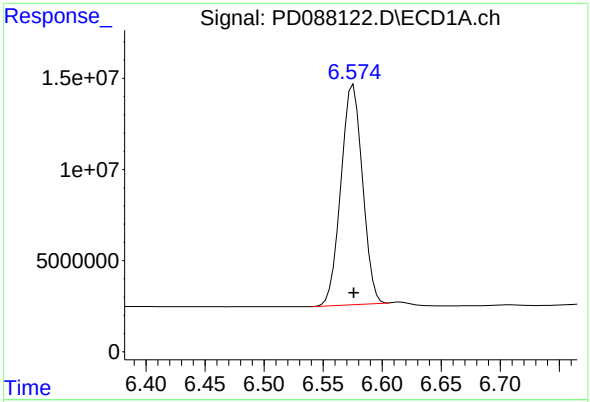
#13 Dieldrin

R.T.: 0.000 min
Exp R.T. : 6.349 min
Response: 0
Conc: N.D.



#13 Dieldrin

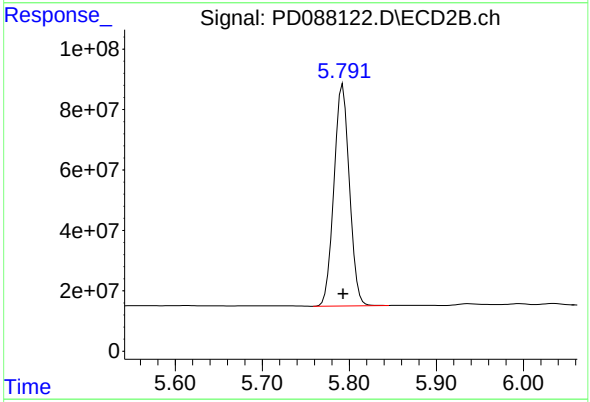
R.T.: 5.511 min
Delta R.T.: -0.006 min
Response: 571550
Conc: 0.03 ng/ml



#14 Endrin

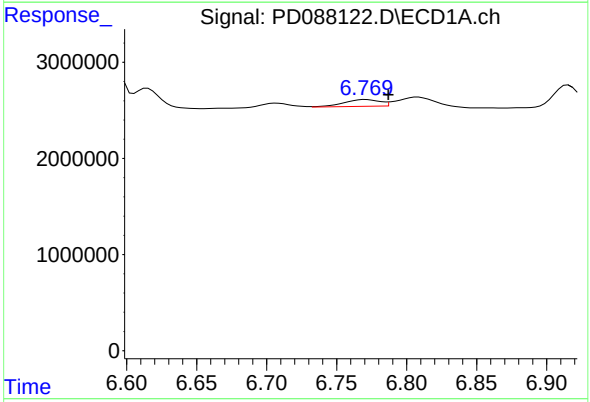
R.T.: 6.576 min
Delta R.T.: 0.000 min
Response: 153680371
Conc: 51.53 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



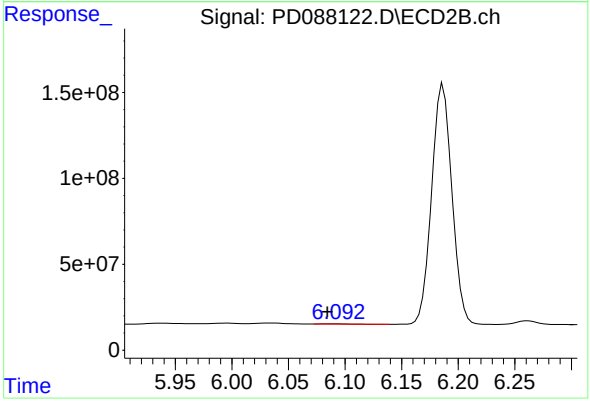
#14 Endrin

R.T.: 5.793 min
Delta R.T.: 0.000 min
Response: 906106216
Conc: 49.78 ng/ml



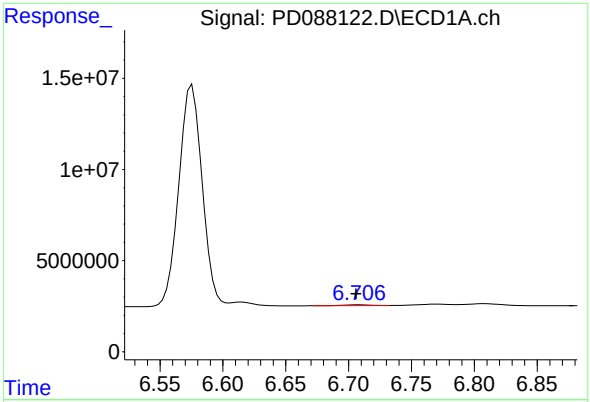
#15 Endosulfan II

R.T.: 6.771 min
Delta R.T.: -0.016 min
Response: 1258288
Conc: 0.40 ng/ml



#15 Endosulfan II

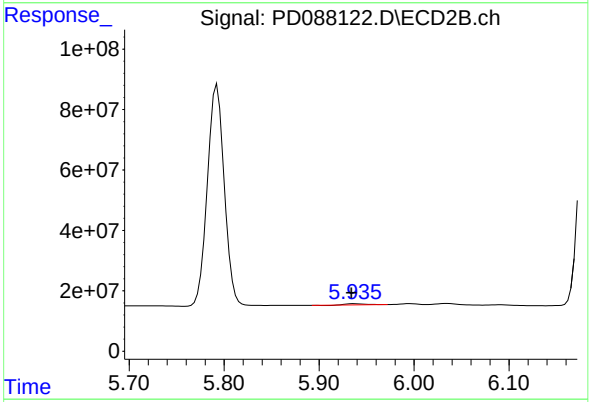
R.T.: 6.090 min
Delta R.T.: 0.006 min
Response: 2549343
Conc: 0.15 ng/ml



#16 4,4'-DDD

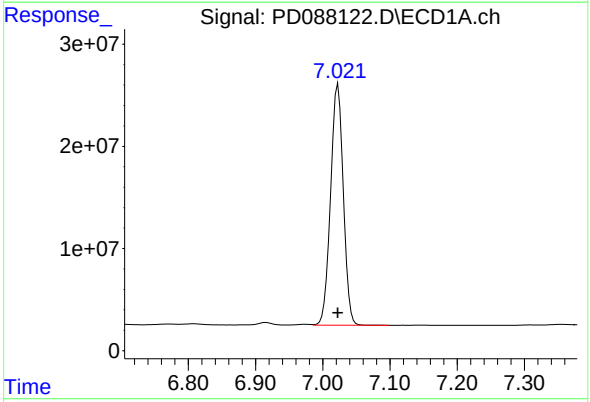
R.T.: 6.708 min
Delta R.T.: 0.002 min
Response: 640061
Conc: 0.25 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



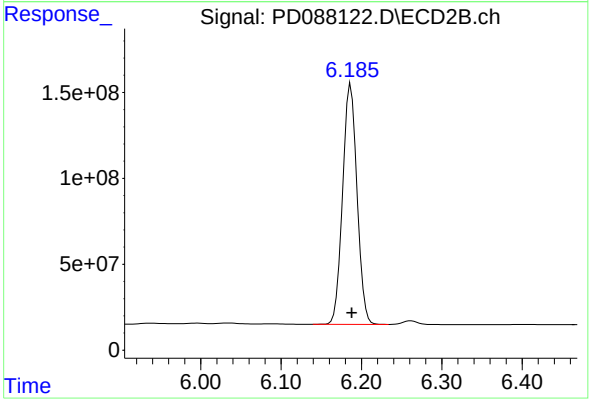
#16 4,4'-DDD

R.T.: 5.937 min
Delta R.T.: 0.003 min
Response: 5421580
Conc: 0.33 ng/ml



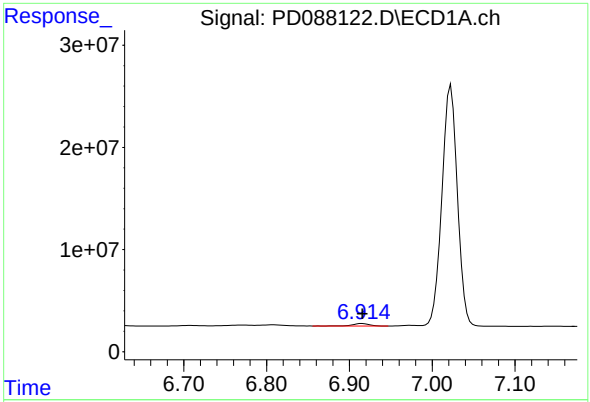
#17 4,4'-DDT

R.T.: 7.023 min
Delta R.T.: 0.000 min
Response: 306944308
Conc: 110.51 ng/ml



#17 4,4'-DDT

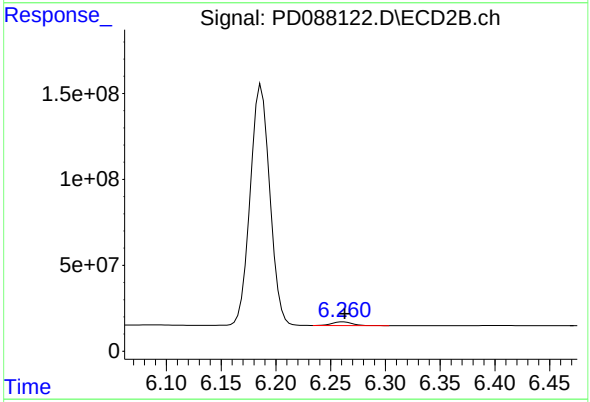
R.T.: 6.187 min
Delta R.T.: -0.001 min
Response: 1746026847
Conc: 102.61 ng/ml



#18 Endrin aldehyde

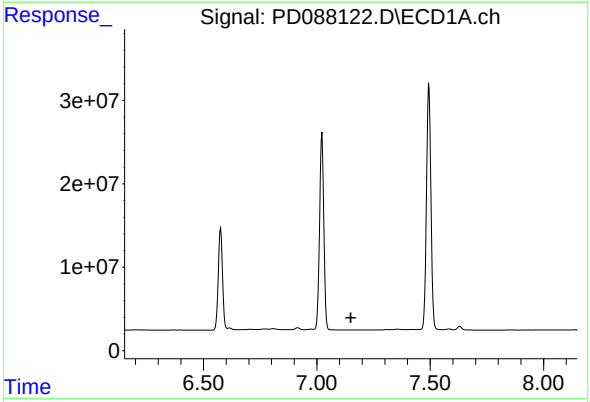
R.T.: 6.915 min
Delta R.T.: 0.000 min
Response: 3420195
Conc: 1.48 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



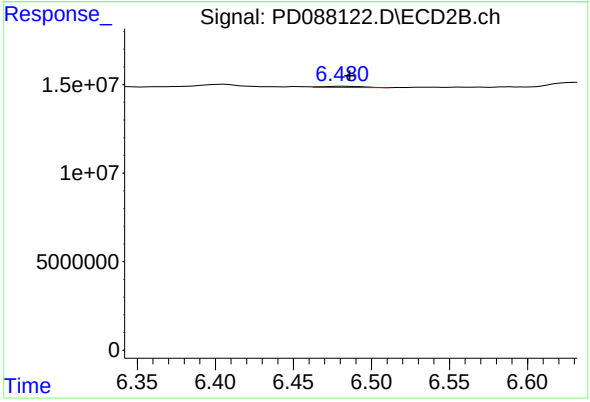
#18 Endrin aldehyde

R.T.: 6.262 min
Delta R.T.: -0.001 min
Response: 27341768
Conc: 2.06 ng/ml



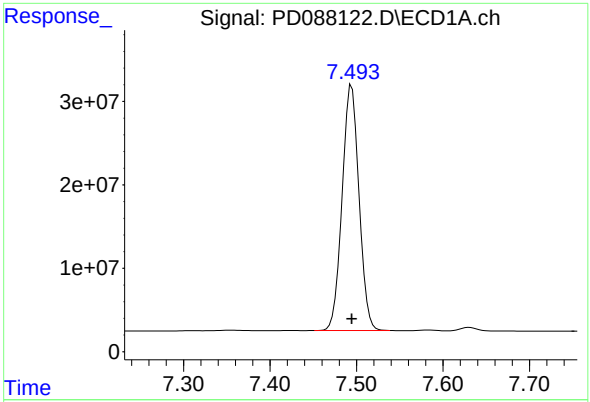
#19 Endosulfan Sulfate

R.T.: 0.000 min
Exp R.T. : 7.150 min
Response: 0
Conc: N.D.



#19 Endosulfan Sulfate

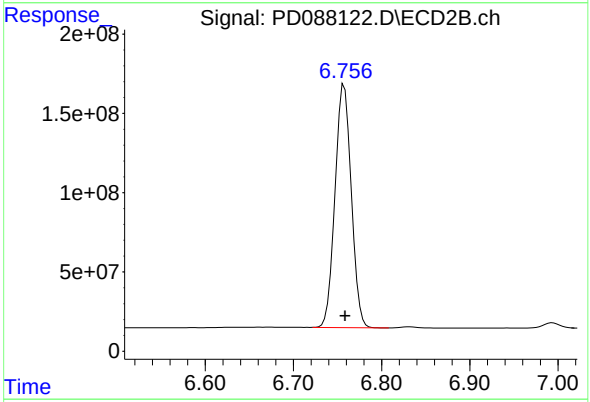
R.T.: 6.481 min
Delta R.T.: -0.005 min
Response: 1203169
Conc: 0.07 ng/ml



#20 Methoxychlor

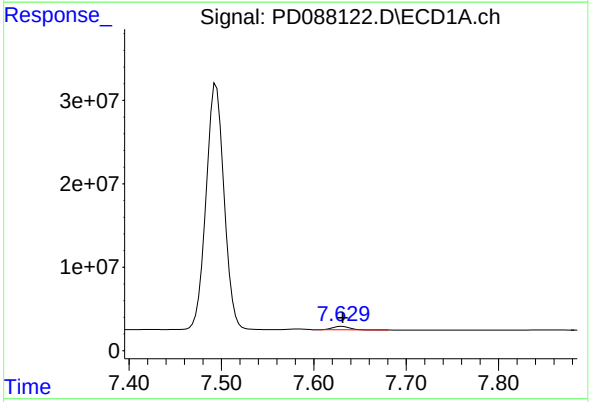
R.T.: 7.494 min
Delta R.T.: 0.000 min
Response: 397529018
Conc: 265.10 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



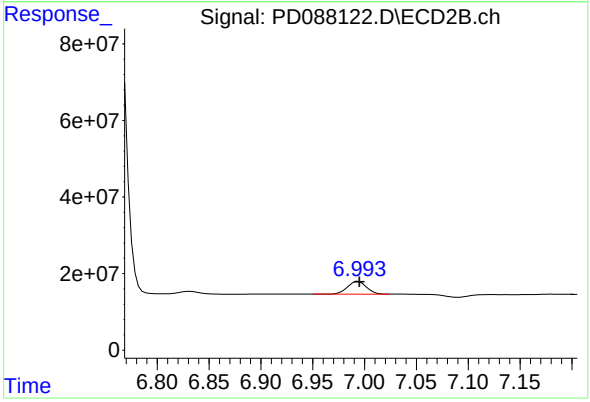
#20 Methoxychlor

R.T.: 6.758 min
Delta R.T.: 0.000 min
Response: 1966308207
Conc: 215.58 ng/ml



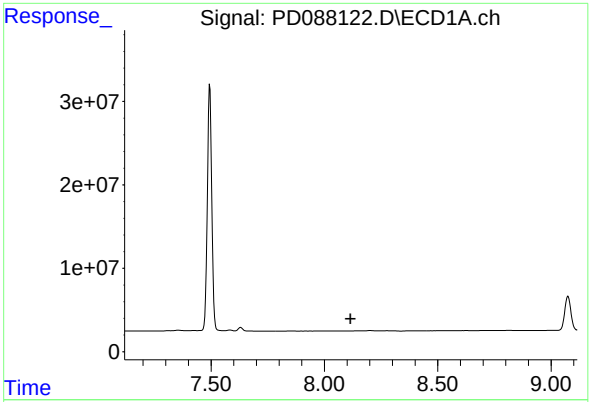
#21 Endrin ketone

R.T.: 7.630 min
Delta R.T.: 0.000 min
Response: 5091664
Conc: 1.65 ng/ml



#21 Endrin ketone

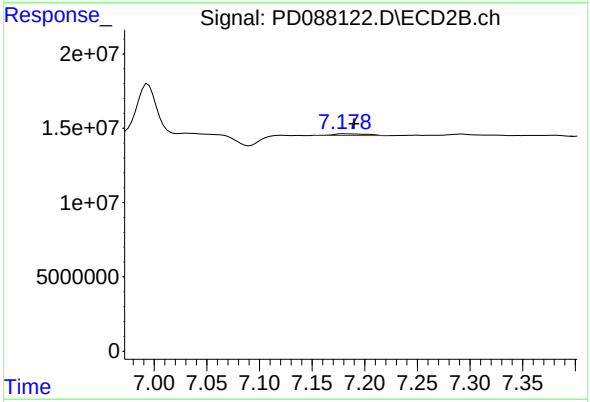
R.T.: 6.994 min
Delta R.T.: -0.001 min
Response: 42676688
Conc: 2.28 ng/ml



#22 Mirex

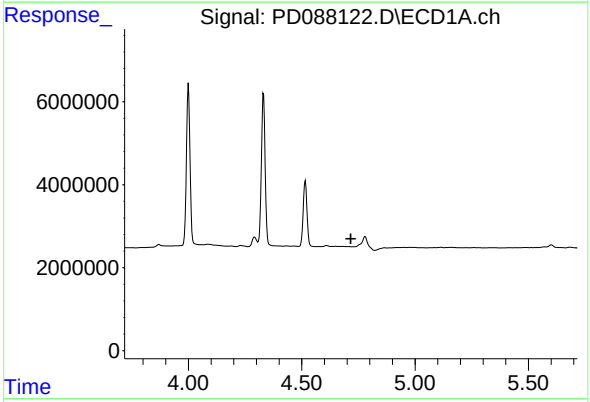
R.T.: 0.000 min
Exp R.T. : 8.115 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
PEM



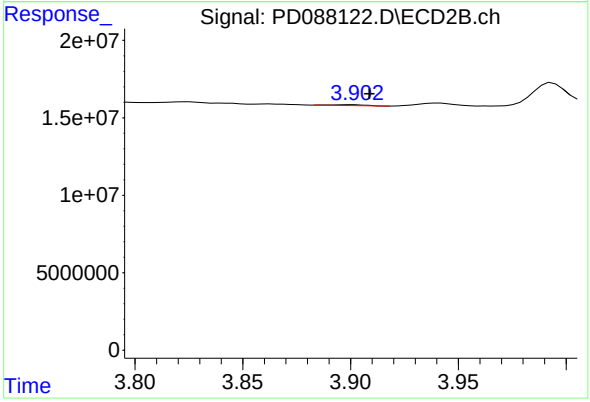
#22 Mirex

R.T.: 7.180 min
Delta R.T.: -0.010 min
Response: 2732226
Conc: 0.18 ng/ml



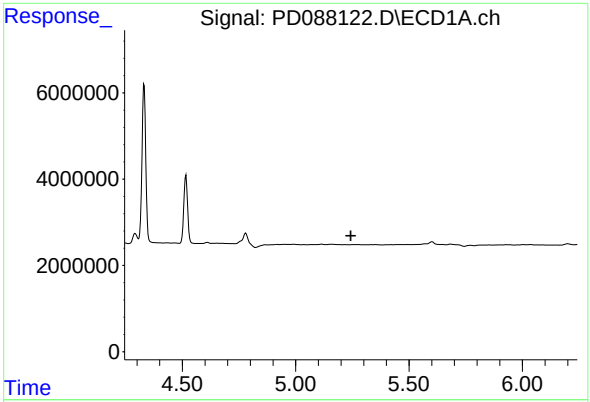
#23 Chlordane-1

R.T.: 0.000 min
Exp R.T. : 4.717 min
Response: 0
Conc: N.D.



#23 Chlordane-1

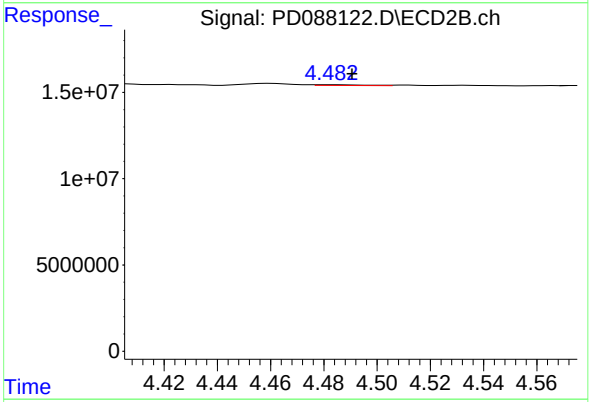
R.T.: 3.901 min
Delta R.T.: -0.008 min
Response: 632650
Conc: 0.79 ng/ml



#24 Chlordane-2

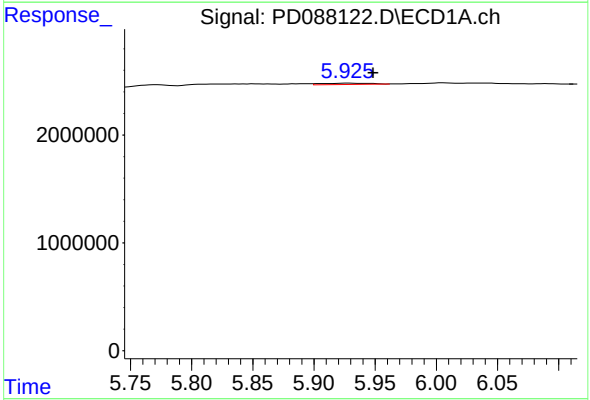
R.T.: 0.000 min
Exp R.T. : 5.243 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
PEM



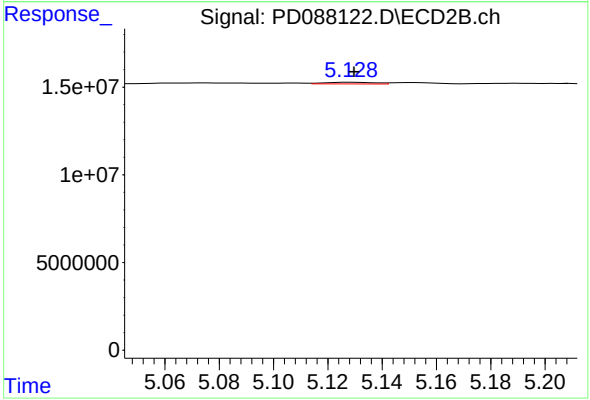
#24 Chlordane-2

R.T.: 4.481 min
Delta R.T.: -0.009 min
Response: 618639
Conc: 0.75 ng/ml



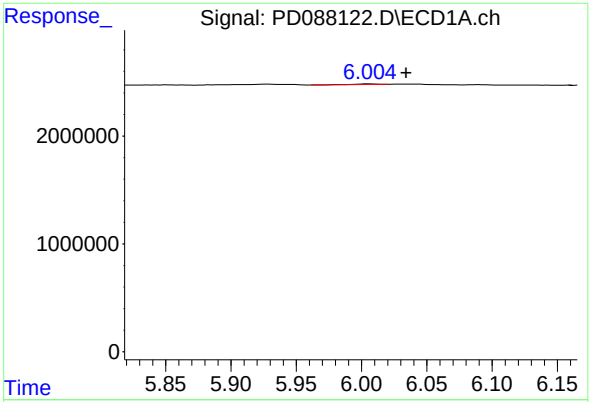
#25 Chlordane-3

R.T.: 5.928 min
Delta R.T.: -0.021 min
Response: 321937
Conc: 0.48 ng/ml



#25 Chlordane-3

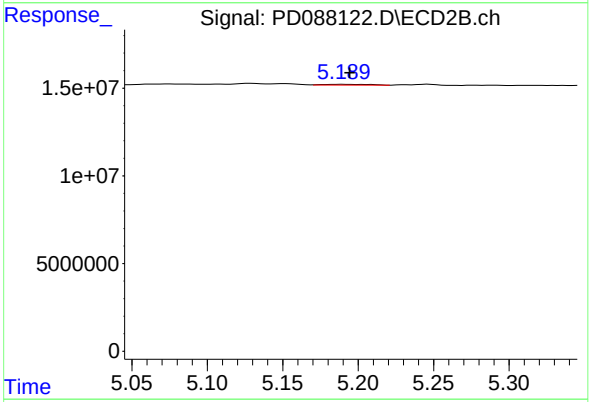
R.T.: 5.129 min
Delta R.T.: 0.000 min
Response: 1205564
Conc: 0.48 ng/ml



#26 Chlordane-4

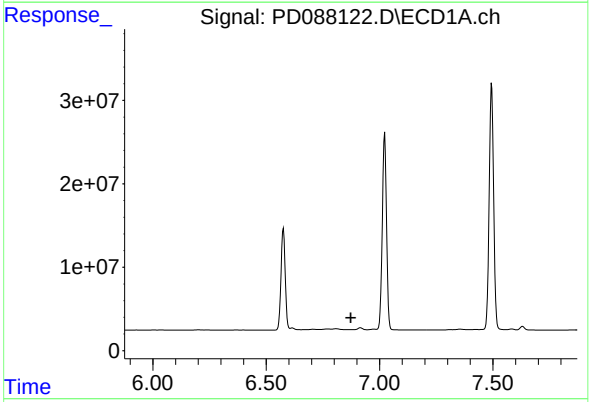
R.T.: 6.006 min
Delta R.T.: -0.028 min
Response: 80454
Conc: 0.10 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



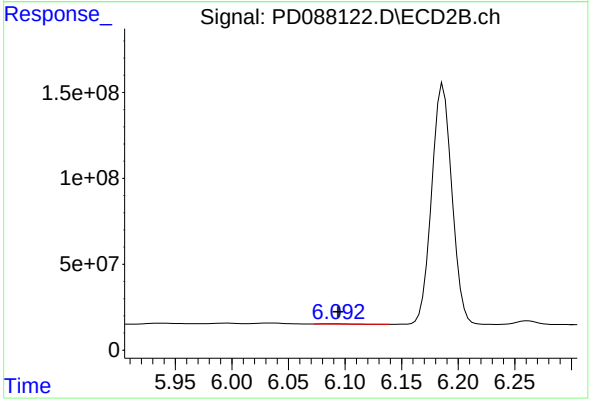
#26 Chlordane-4

R.T.: 5.191 min
Delta R.T.: -0.004 min
Response: 1030998
Conc: 0.48 ng/ml



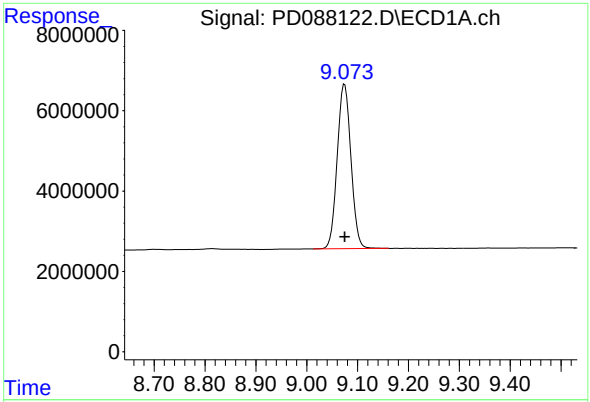
#27 Chlordane-5

R.T.: 0.000 min
Exp R.T. : 6.873 min
Response: 0
Conc: N.D.



#27 Chlordane-5

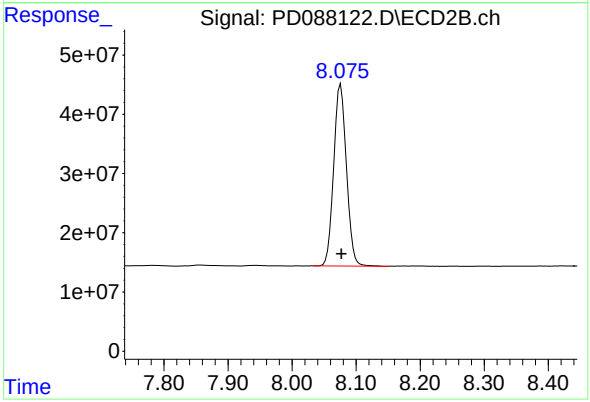
R.T.: 6.090 min
Delta R.T.: -0.004 min
Response: 2549343
Conc: 2.64 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.075 min
Delta R.T.: 0.000 min
Response: 76807188
Conc: 23.22 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 424133792
Conc: 22.95 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088124.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 13:56
Operator : AR\AJ
Sample : PSTDICC100
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC100

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 03:52:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 03:51:59 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.551	2.900	198.2E6	1361.5E6	102.252	97.177
28)	SA Decachlor...	9.075	8.093	308.1E6	1676.7E6	96.938	95.974
	Target Compounds						
2)	A alpha-BHC	4.001	3.413f	478.3E6	2191.3E6	110.186	99.199
3)	MA gamma-BHC...	4.332	3.749f	450.7E6	2014.1E6	108.476	97.970
4)	MA Heptachlor	4.931	4.103f	426.4E6	1982.7E6	107.197	96.610
5)	MB Aldrin	5.273	4.389f	419.1E6	1944.0E6	107.150	97.198
6)	B beta-BHC	4.516	4.045f	160.4E6	847.4E6	101.615	95.778
7)	B delta-BHC	4.765	4.282f	444.5E6	2017.9E6	109.064	98.560
8)	B Heptachlo...	5.693	4.893f	367.1E6	1722.1E6	105.295	95.251
9)	A Endosulfan I	6.076	5.268f	345.0E6	1644.8E6	104.428	95.371
10)	B gamma-Chl...	5.947	5.146f	375.8E6	1896.0E6	106.258	97.545
11)	B alpha-Chl...	6.029	5.211f	371.0E6	1819.3E6	105.123	97.001
12)	B 4,4'-DDE	6.197	5.396f	346.7E6	1834.5E6	106.999	97.207
13)	MA Dieldrin	6.349	5.533f	375.0E6	1853.7E6	106.225	96.816
14)	MA Endrin	6.576	5.810f	312.8E6	1675.6E6	106.566	95.944
15)	B Endosulfa...	6.787	6.101f	310.4E6	1601.0E6	103.212	95.650
16)	A 4,4'-DDD	6.706	5.950f	265.8E6	1515.5E6	106.517	95.963
17)	MA 4,4'-DDT	7.023	6.204f	292.3E6	1643.2E6	106.115	98.125
18)	B Endrin al...	6.917	6.279f	229.5E6	1206.4E6	102.143	94.941
19)	B Endosulfa...	7.151	6.502f	289.7E6	1562.9E6	103.184	95.186
20)	A Methoxychlor	7.494	6.774f	146.1E6	827.2E6	99.554	93.586
21)	B Endrin ke...	7.631	7.011f	312.9E6	1699.7E6	102.999	94.925
22)	Mirex	8.115	7.205f	219.9E6	1333.1E6	97.739	95.075

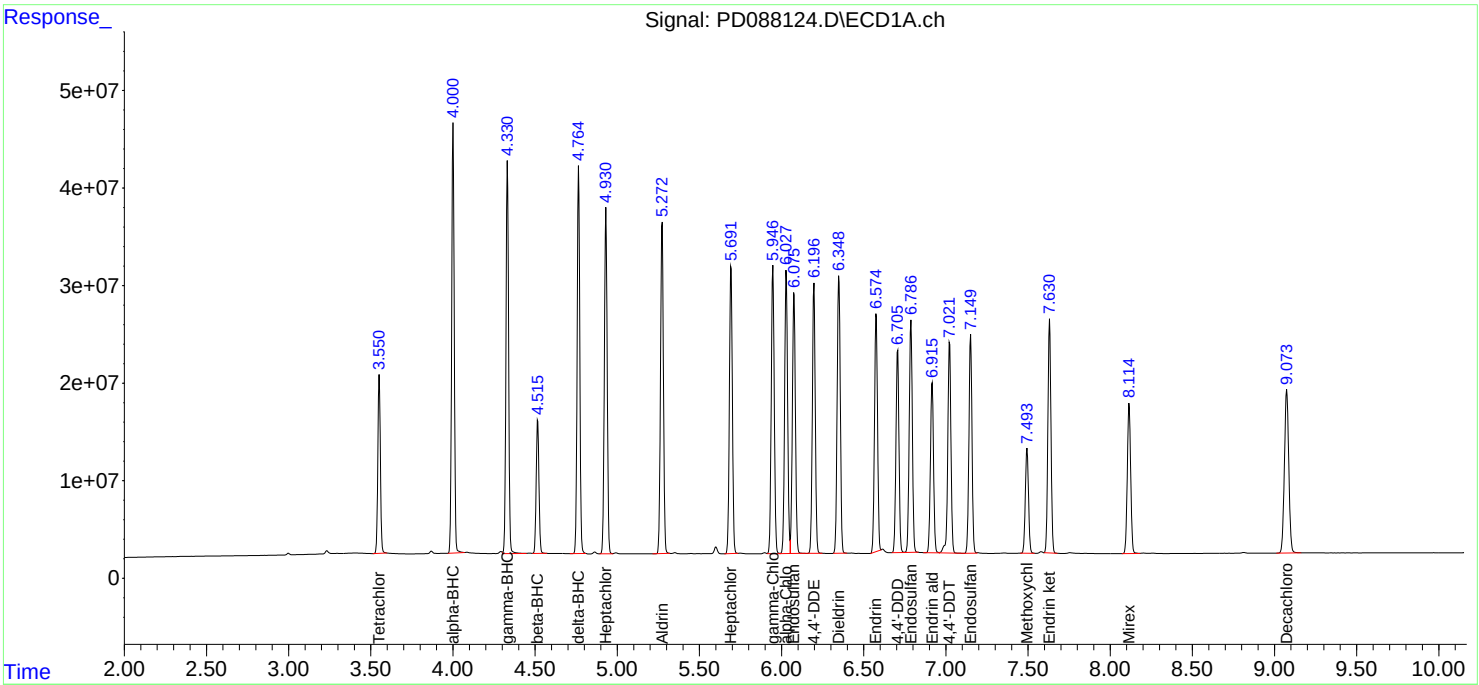
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

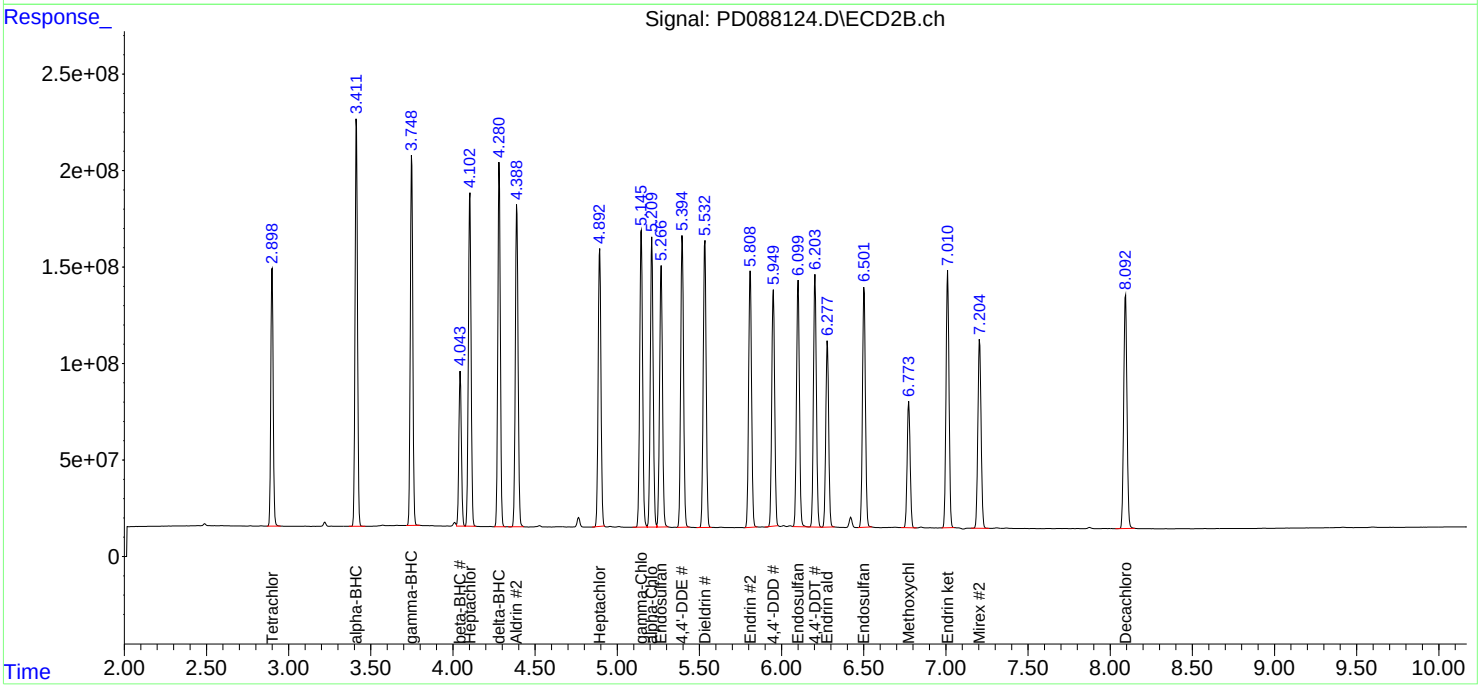
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088124.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 13:56
Operator : AR\AJ
Sample : PSTDICC100
Misc :
ALS Vial : 5 Sample Multiplier: 1

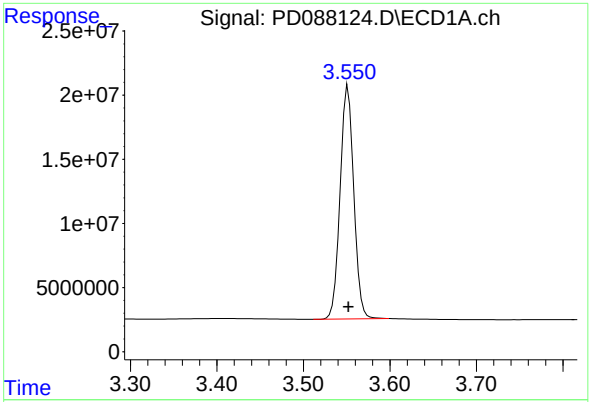
Instrument :
ECD_D
ClientSampleId :
PSTDICC100

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 03:52:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 03:51:59 2025
Response via : Initial Calibration
Integrator: ChemStation

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



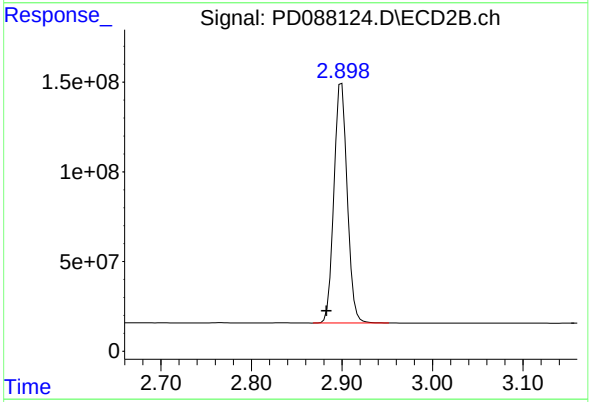




#1 Tetrachloro-m-xylene

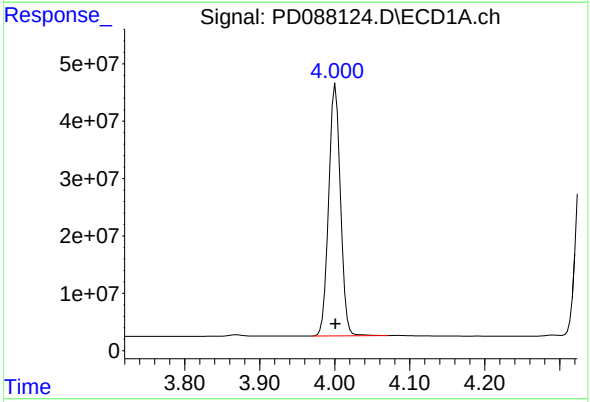
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 198234117
Conc: 102.25 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100



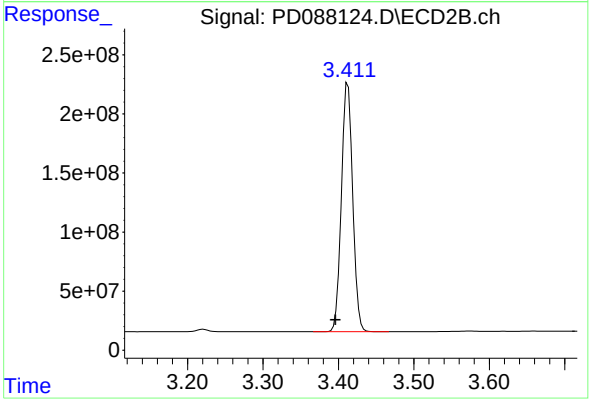
#1 Tetrachloro-m-xylene

R.T.: 2.900 min
Delta R.T.: 0.017 min
Response: 1361531613
Conc: 97.18 ng/ml



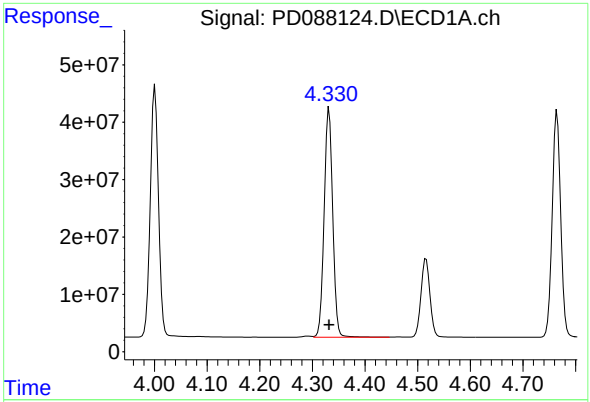
#2 alpha-BHC

R.T.: 4.001 min
Delta R.T.: 0.000 min
Response: 478294593
Conc: 110.19 ng/ml



#2 alpha-BHC

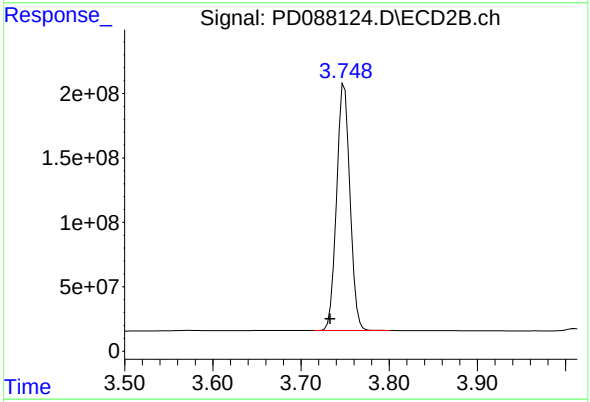
R.T.: 3.413 min
Delta R.T.: 0.017 min
Response: 2191345557
Conc: 99.20 ng/ml



#3 gamma-BHC (Lindane)

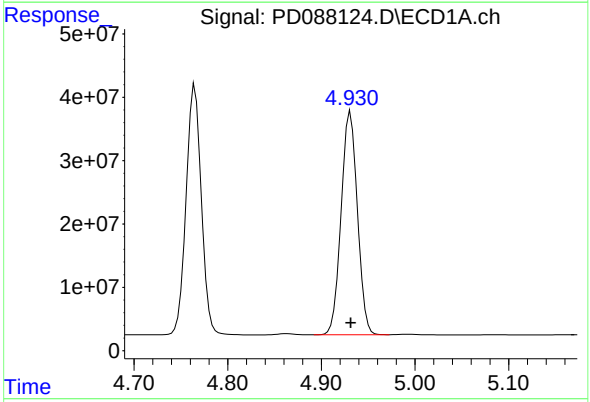
R.T.: 4.332 min
Delta R.T.: 0.000 min
Response: 450721159
Conc: 108.48 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100



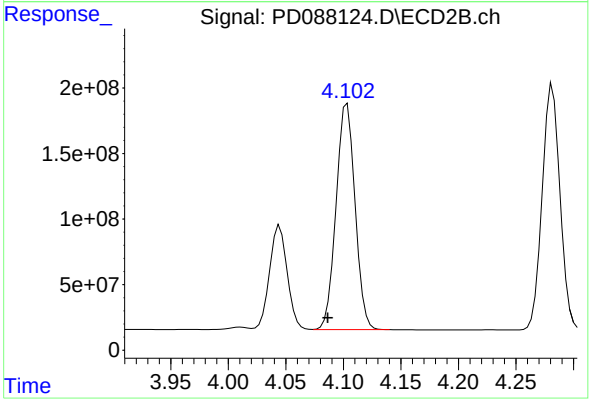
#3 gamma-BHC (Lindane)

R.T.: 3.749 min
Delta R.T.: 0.016 min
Response: 2014083811
Conc: 97.97 ng/ml



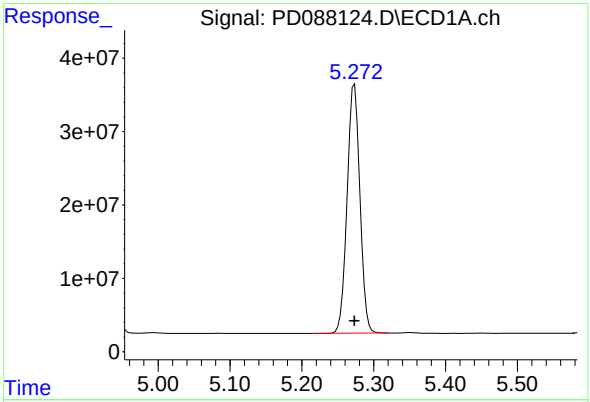
#4 Heptachlor

R.T.: 4.931 min
Delta R.T.: 0.000 min
Response: 426448897
Conc: 107.20 ng/ml



#4 Heptachlor

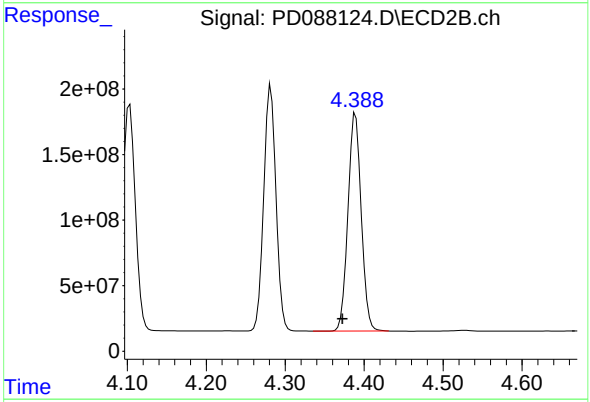
R.T.: 4.103 min
Delta R.T.: 0.017 min
Response: 1982693593
Conc: 96.61 ng/ml



#5 Aldrin

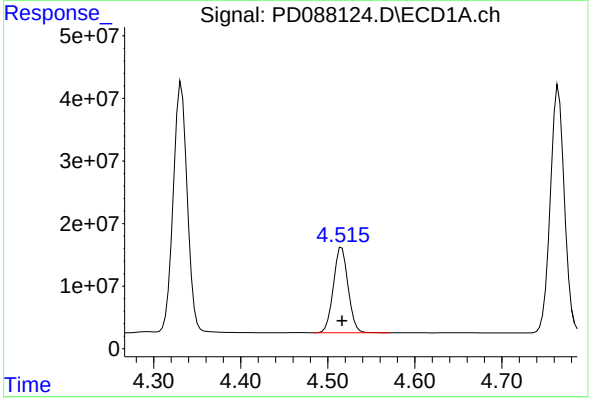
R.T.: 5.273 min
Delta R.T.: 0.000 min
Response: 419147389
Conc: 107.15 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100



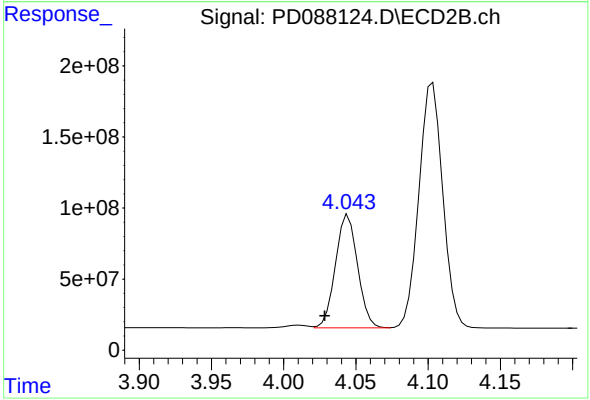
#5 Aldrin

R.T.: 4.389 min
Delta R.T.: 0.016 min
Response: 1943968817
Conc: 97.20 ng/ml



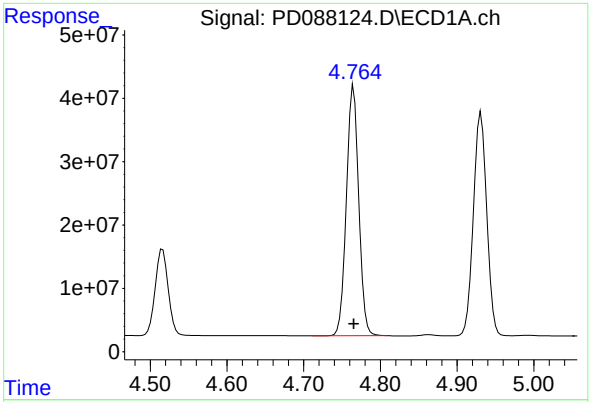
#6 beta-BHC

R.T.: 4.516 min
Delta R.T.: 0.000 min
Response: 160449345
Conc: 101.62 ng/ml



#6 beta-BHC

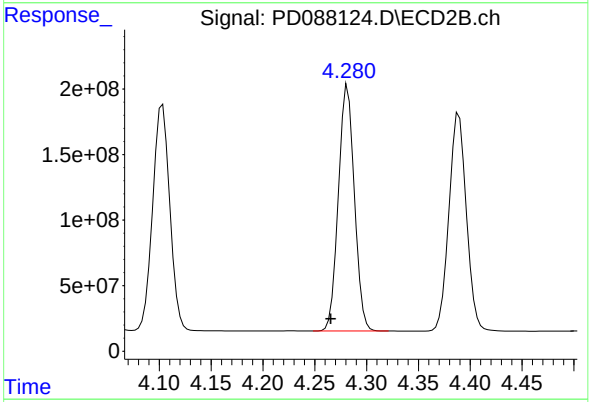
R.T.: 4.045 min
Delta R.T.: 0.016 min
Response: 847390411
Conc: 95.78 ng/ml



#7 delta-BHC

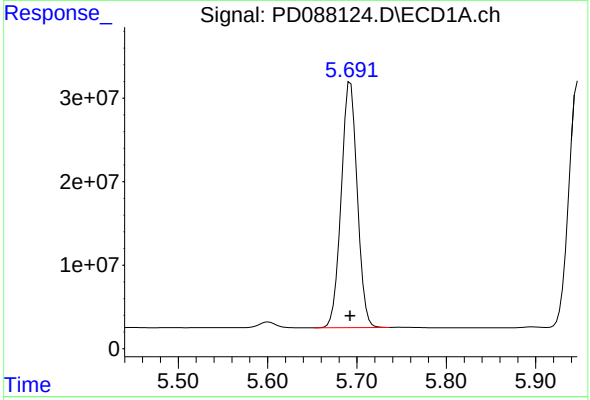
R.T.: 4.765 min
Delta R.T.: 0.000 min
Response: 444516408
Conc: 109.06 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100



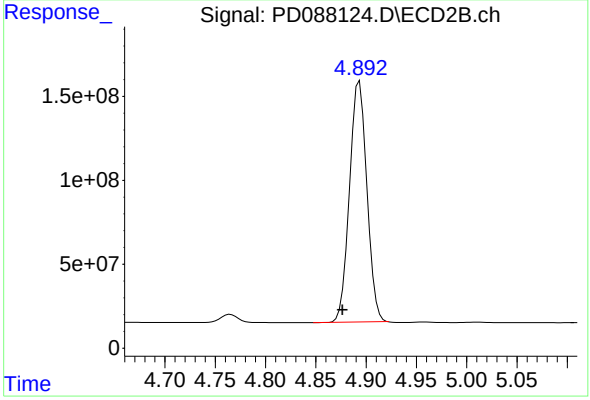
#7 delta-BHC

R.T.: 4.282 min
Delta R.T.: 0.017 min
Response: 2017870820
Conc: 98.56 ng/ml



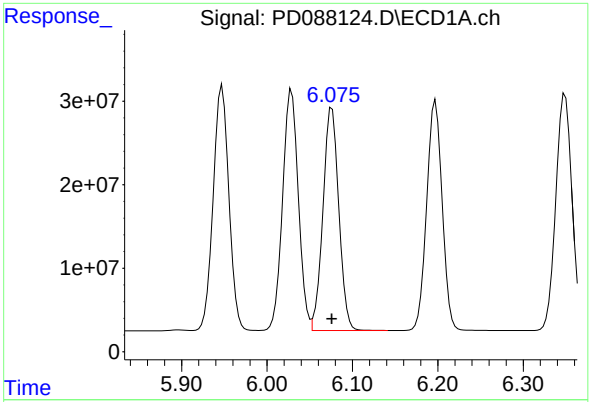
#8 Heptachlor epoxide

R.T.: 5.693 min
Delta R.T.: 0.000 min
Response: 367091395
Conc: 105.29 ng/ml



#8 Heptachlor epoxide

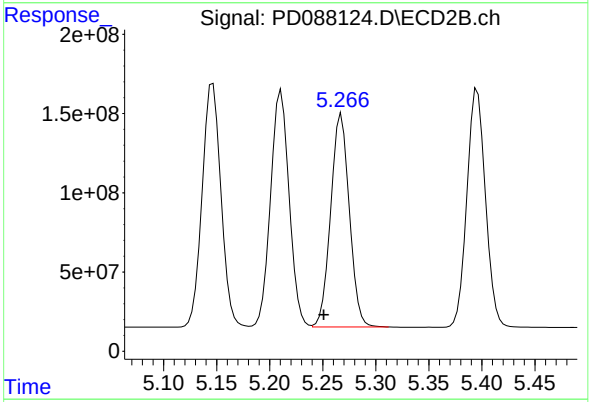
R.T.: 4.893 min
Delta R.T.: 0.017 min
Response: 1722116151
Conc: 95.25 ng/ml



#9 Endosulfan I

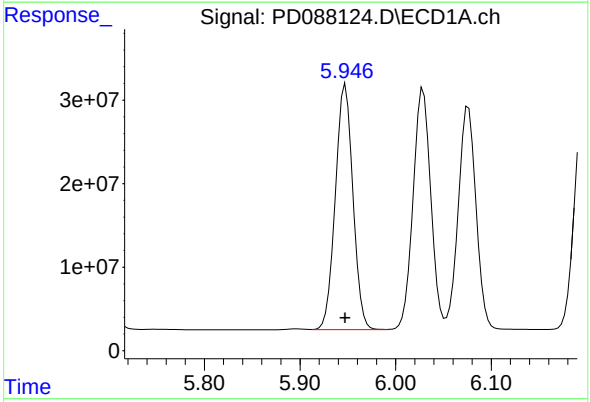
R.T.: 6.076 min
Delta R.T.: 0.000 min
Response: 345033577
Conc: 104.43 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100



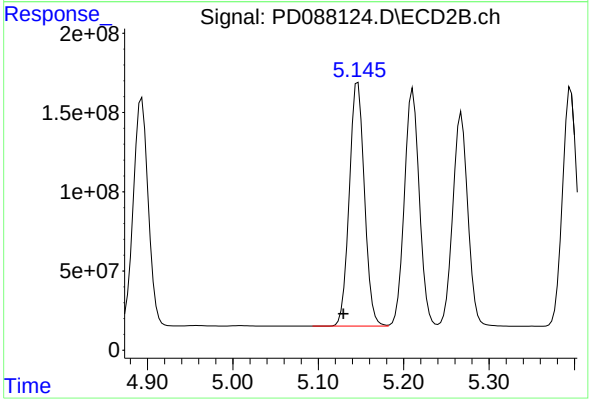
#9 Endosulfan I

R.T.: 5.268 min
Delta R.T.: 0.016 min
Response: 1644830777
Conc: 95.37 ng/ml



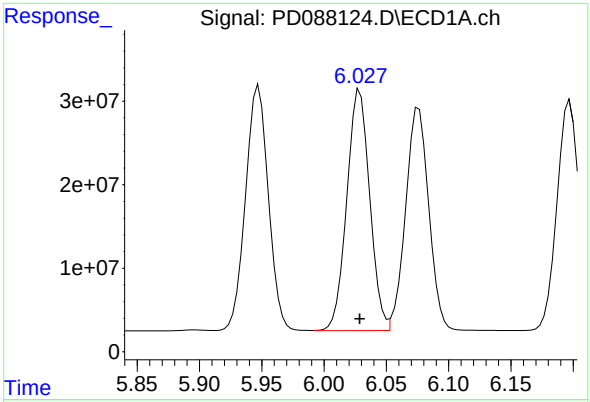
#10 gamma-Chlordane

R.T.: 5.947 min
Delta R.T.: 0.000 min
Response: 375755476
Conc: 106.26 ng/ml



#10 gamma-Chlordane

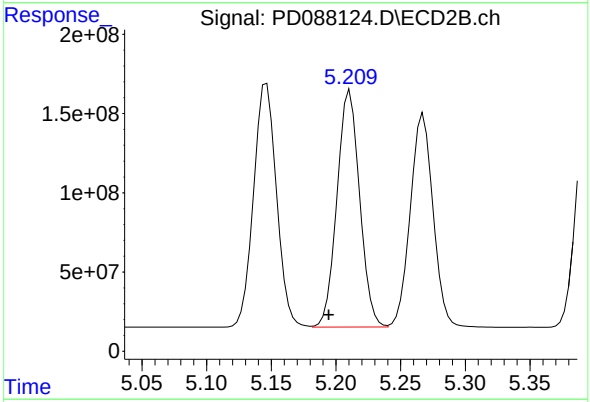
R.T.: 5.146 min
Delta R.T.: 0.017 min
Response: 1896002446
Conc: 97.54 ng/ml



#11 alpha-Chlordane

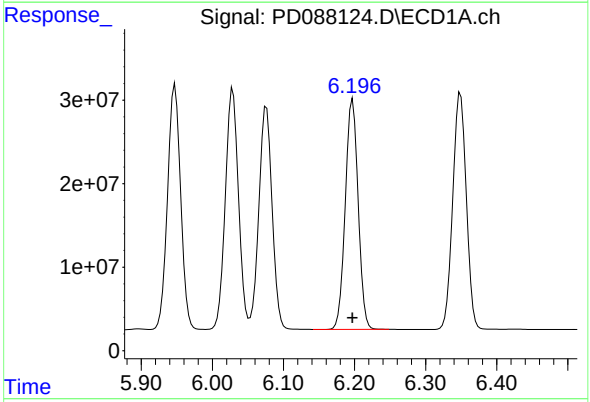
R.T.: 6.029 min
Delta R.T.: 0.000 min
Response: 371034138
Conc: 105.12 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100



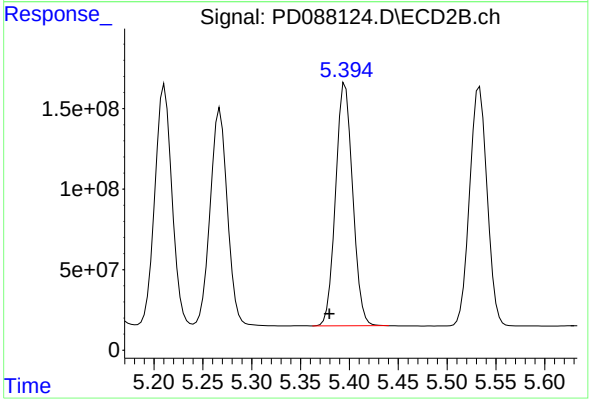
#11 alpha-Chlordane

R.T.: 5.211 min
Delta R.T.: 0.016 min
Response: 1819263378
Conc: 97.00 ng/ml



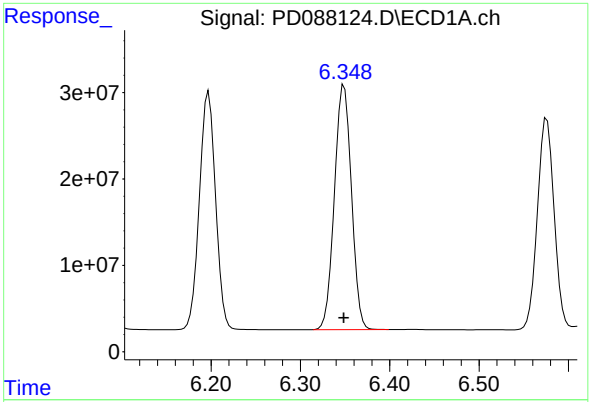
#12 4,4'-DDE

R.T.: 6.197 min
Delta R.T.: 0.000 min
Response: 346691318
Conc: 107.00 ng/ml



#12 4,4'-DDE

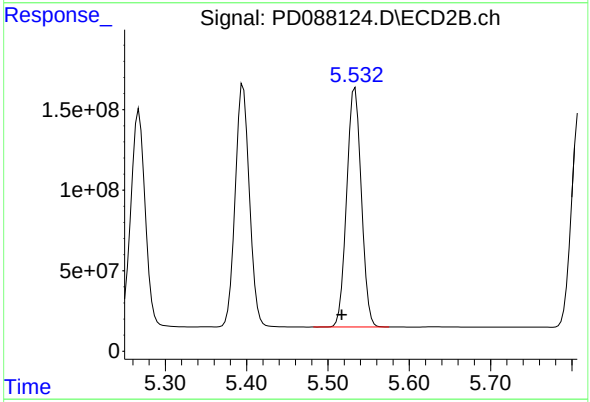
R.T.: 5.396 min
Delta R.T.: 0.016 min
Response: 1834547618
Conc: 97.21 ng/ml



#13 Dieldrin

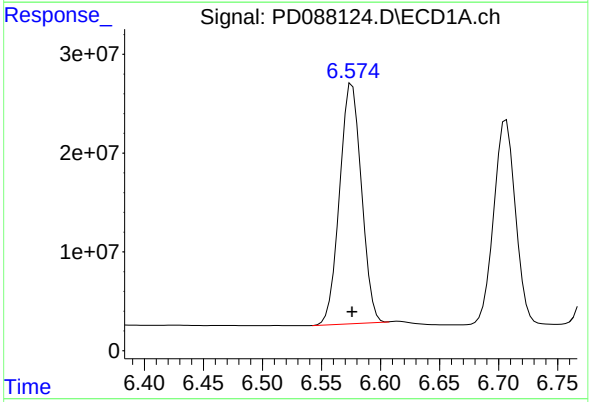
R.T.: 6.349 min
Delta R.T.: 0.000 min
Response: 375015671
Conc: 106.23 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100



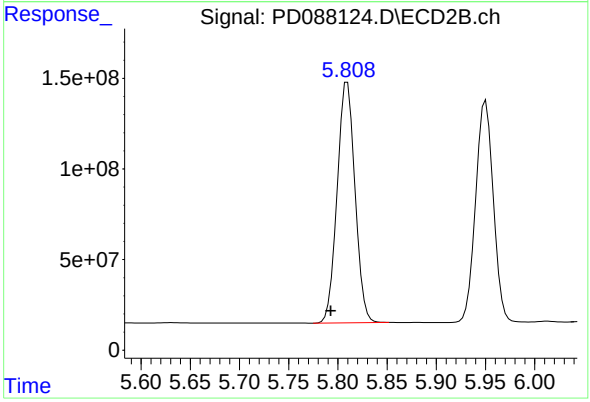
#13 Dieldrin

R.T.: 5.533 min
Delta R.T.: 0.016 min
Response: 1853680989
Conc: 96.82 ng/ml



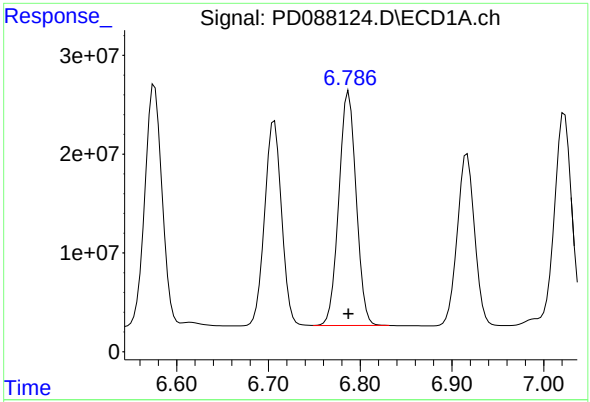
#14 Endrin

R.T.: 6.576 min
Delta R.T.: 0.000 min
Response: 312818338
Conc: 106.57 ng/ml



#14 Endrin

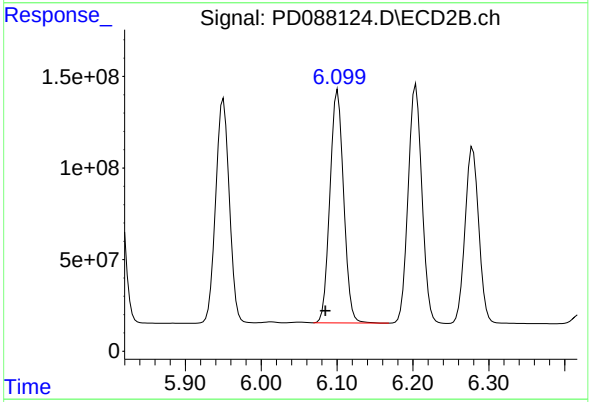
R.T.: 5.810 min
Delta R.T.: 0.017 min
Response: 1675615058
Conc: 95.94 ng/ml



#15 Endosulfan II

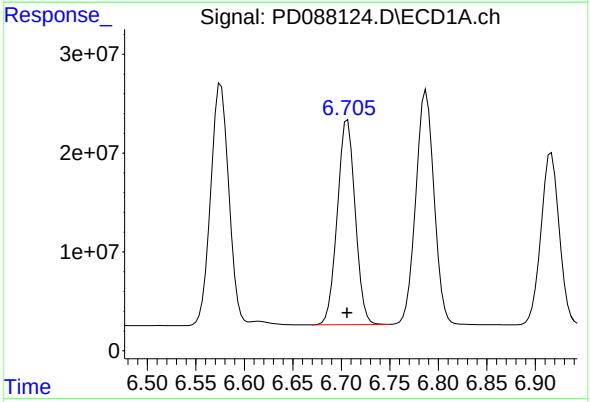
R.T.: 6.787 min
Delta R.T.: 0.000 min
Response: 310413086
Conc: 103.21 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100



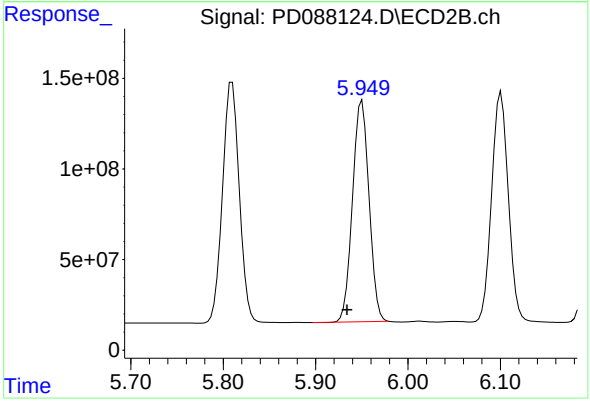
#15 Endosulfan II

R.T.: 6.101 min
Delta R.T.: 0.016 min
Response: 1600976508
Conc: 95.65 ng/ml



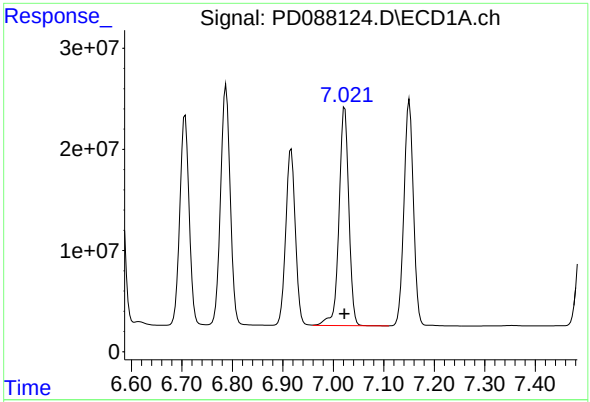
#16 4,4'-DDD

R.T.: 6.706 min
Delta R.T.: 0.000 min
Response: 265760396
Conc: 106.52 ng/ml



#16 4,4'-DDD

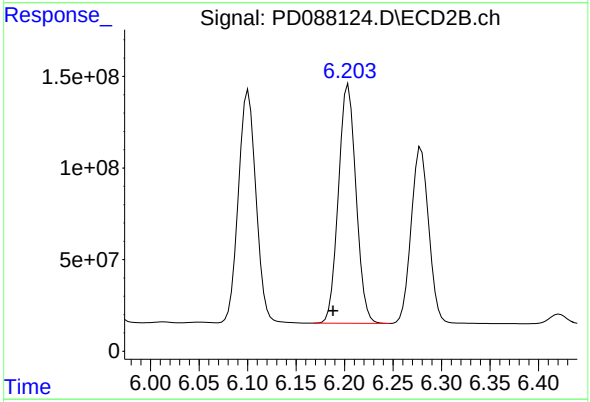
R.T.: 5.950 min
Delta R.T.: 0.016 min
Response: 1515468249
Conc: 95.96 ng/ml



#17 4,4'-DDT

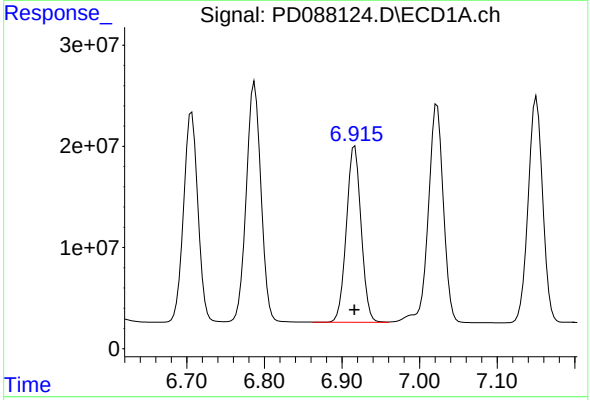
R.T.: 7.023 min
Delta R.T.: 0.000 min
Response: 292348242
Conc: 106.12 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100



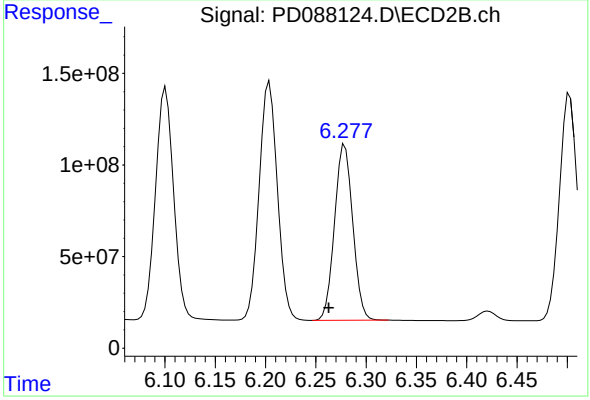
#17 4,4'-DDT

R.T.: 6.204 min
Delta R.T.: 0.016 min
Response: 1643160337
Conc: 98.12 ng/ml



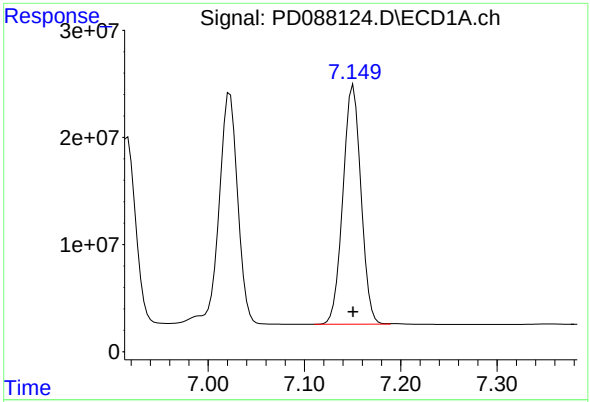
#18 Endrin aldehyde

R.T.: 6.917 min
Delta R.T.: 0.000 min
Response: 229501229
Conc: 102.14 ng/ml



#18 Endrin aldehyde

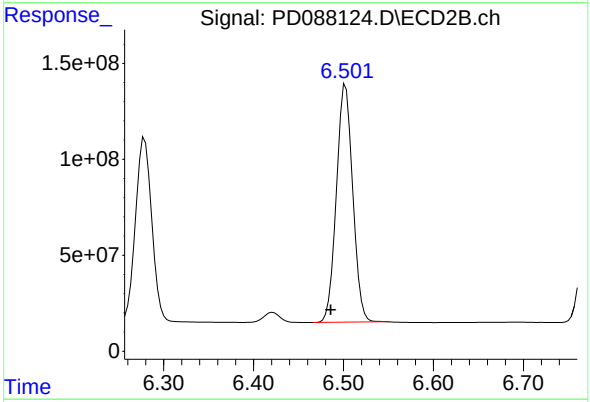
R.T.: 6.279 min
Delta R.T.: 0.016 min
Response: 1206434283
Conc: 94.94 ng/ml



#19 Endosulfan Sulfate

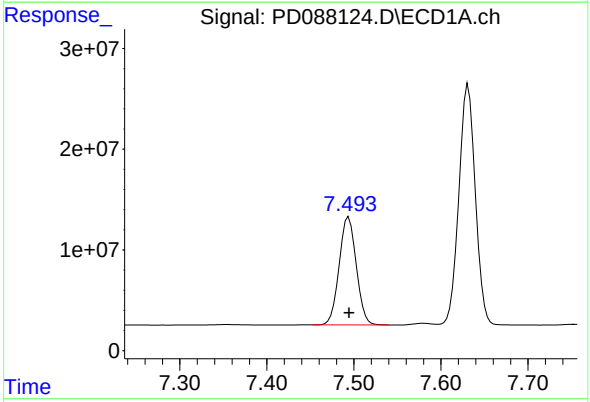
R.T.: 7.151 min
Delta R.T.: 0.000 min
Response: 289697395
Conc: 103.18 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100



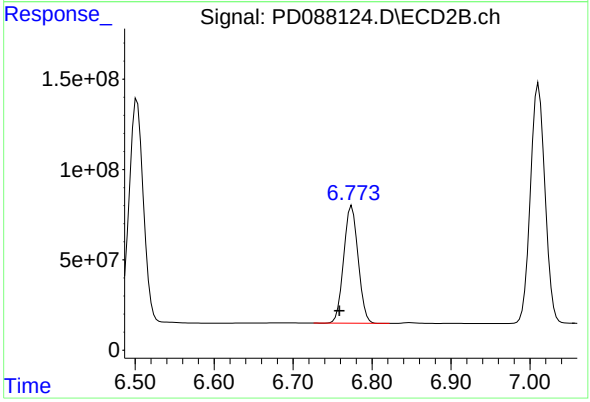
#19 Endosulfan Sulfate

R.T.: 6.502 min
Delta R.T.: 0.016 min
Response: 1562895135
Conc: 95.19 ng/ml



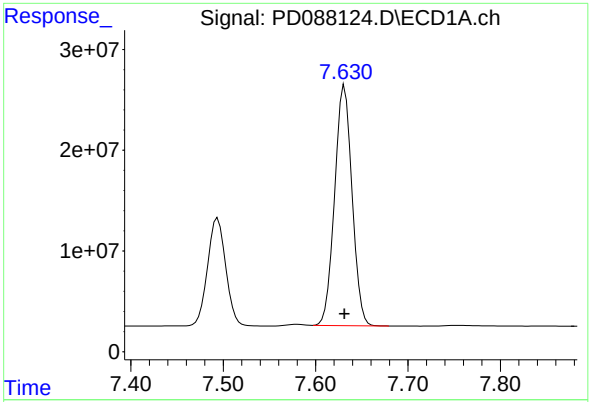
#20 Methoxychlor

R.T.: 7.494 min
Delta R.T.: 0.000 min
Response: 146129589
Conc: 99.55 ng/ml



#20 Methoxychlor

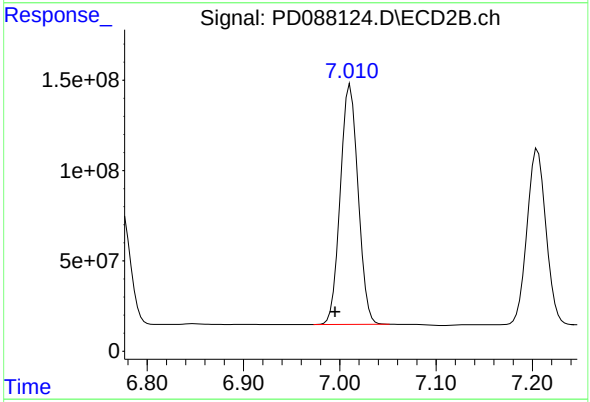
R.T.: 6.774 min
Delta R.T.: 0.016 min
Response: 827232755
Conc: 93.59 ng/ml



#21 Endrin ketone

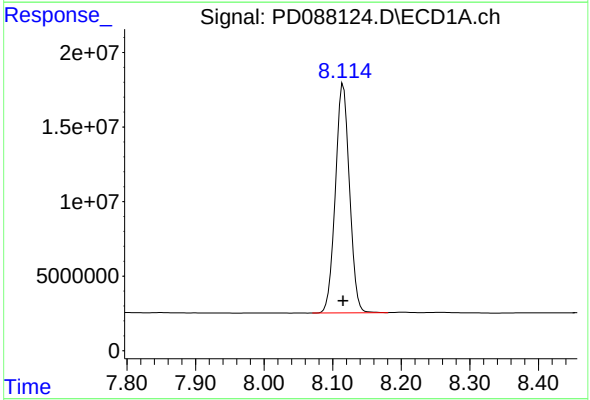
R.T.: 7.631 min
Delta R.T.: 0.000 min
Response: 312858827
Conc: 103.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100



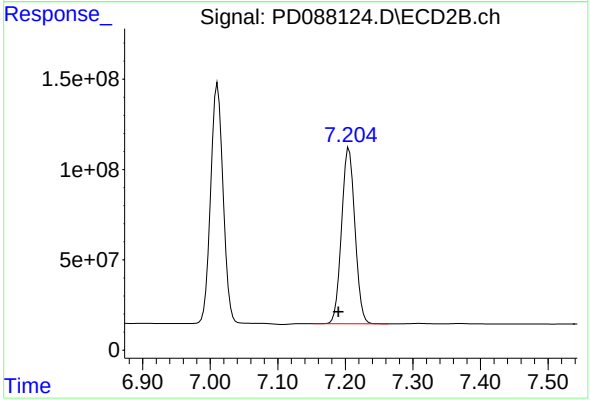
#21 Endrin ketone

R.T.: 7.011 min
Delta R.T.: 0.016 min
Response: 1699657766
Conc: 94.92 ng/ml



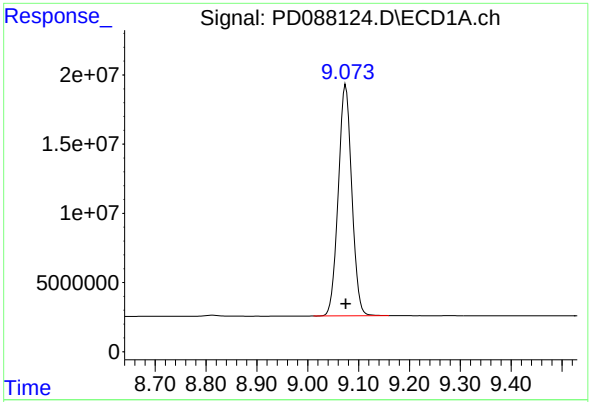
#22 Mirex

R.T.: 8.115 min
Delta R.T.: 0.000 min
Response: 219877176
Conc: 97.74 ng/ml



#22 Mirex

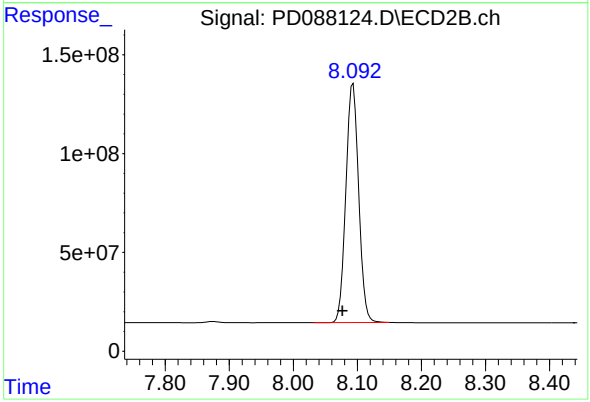
R.T.: 7.205 min
Delta R.T.: 0.016 min
Response: 1333108121
Conc: 95.07 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.075 min
Delta R.T.: 0.000 min
Response: 308082392
Conc: 96.94 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC100



#28 Decachlorobiphenyl

R.T.: 8.093 min
Delta R.T.: 0.016 min
Response: 1676703182
Conc: 95.97 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088128.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 14:51
Operator : AR\AJ
Sample : PSTDICC005
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC005

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 03:53:24 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 03:51:59 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	System Monitoring Compounds							
1)	SA Tetrachlo...	3.552	2.883	10677571	86225193	5.508	6.154	
28)	SA Decachlor...	9.075	8.076	19250443	113.4E6	6.057	6.490	
	Target Compounds							
2)	A alpha-BHC	4.001	3.396	19344032	129.8E6	4.456	5.874	#
3)	MA gamma-BHC...	4.332	3.733	20113508	128.2E6	4.841	6.234	#
4)	MA Heptachlor	4.931	4.086	20057945	126.6E6	5.042	6.169	
5)	MB Aldrin	5.273	4.372	19278191	121.3E6	4.928	6.063	
6)	B beta-BHC	4.516	4.028	8800396	55407278	5.573	6.262	
7)	B delta-BHC	4.765	4.265	20123876	122.2E6	4.937	5.967	
8)	B Heptachlo...	5.693	4.876	18623118	112.9E6	5.342	6.244	
9)	A Endosulfan I	6.076	5.251	17577772	107.8E6	5.320	6.253	
10)	B gamma-Chl...	5.948	5.130	18576714	119.7E6	5.253	6.157	
11)	B alpha-Chl...	6.029	5.194	18782686	116.3E6	5.322	6.201	
12)	B 4,4'-DDE	6.197	5.379	15929607	115.5E6	4.916	6.117	
13)	MA Dieldrin	6.349	5.517	17671896	116.9E6	5.006	6.106	
14)	MA Endrin	6.576	5.793	14827210	107.9E6	5.051	6.177	
15)	B Endosulfa...	6.787	6.084	17419714	105.5E6	5.792	6.301	
16)	A 4,4'-DDD	6.706	5.933	12295875	96096151	4.928	6.085	
17)	MA 4,4'-DDT	7.022	6.188	13556042	91724476	4.921	5.478	
18)	B Endrin al...	6.916	6.262	12478868	80534454	5.554	6.338	
19)	B Endosulfa...	7.151	6.486	15272374	102.6E6	5.440	6.248	
20)	A Methoxychlor	7.495	6.758	8094629	53678604	5.515	6.073	
21)	B Endrin ke...	7.631	6.995	16074498	112.9E6	5.292	6.304	
22)	Mirex	8.116	7.189	13799458	91589011	6.134	6.532	

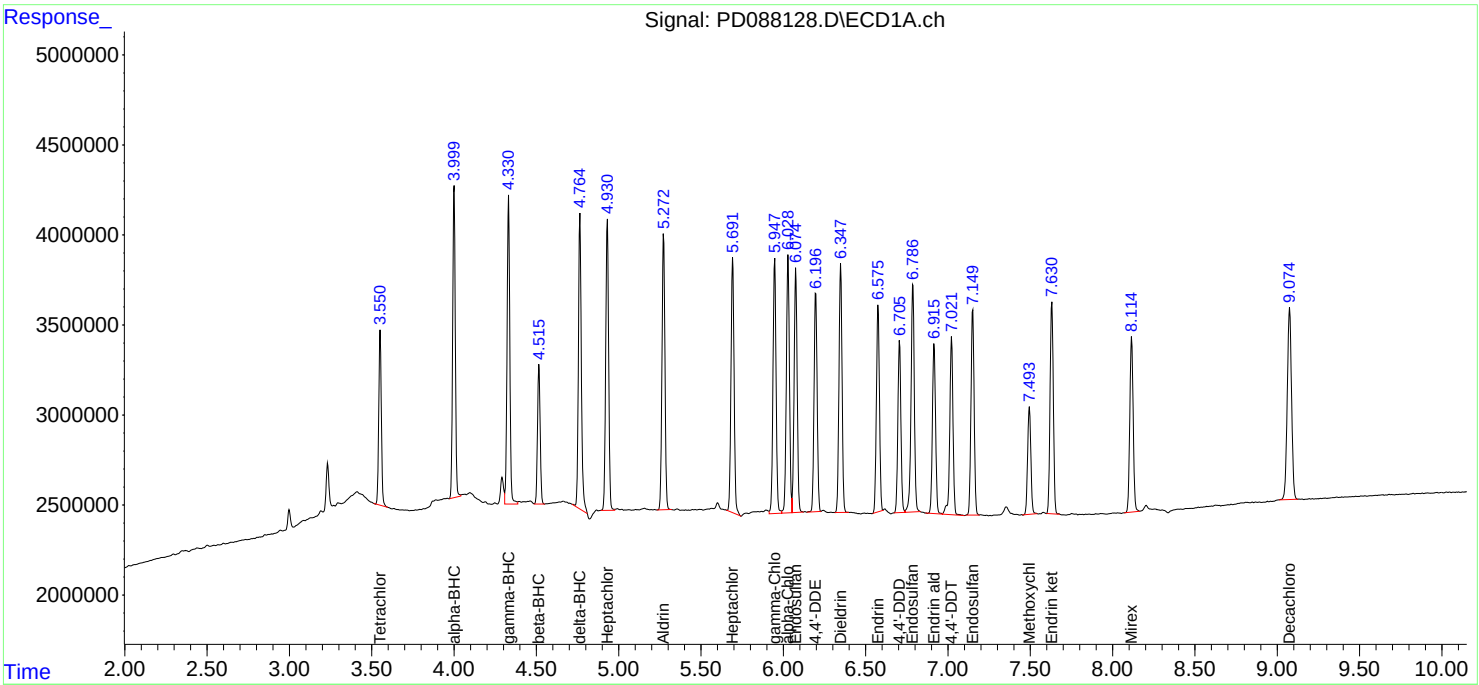
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

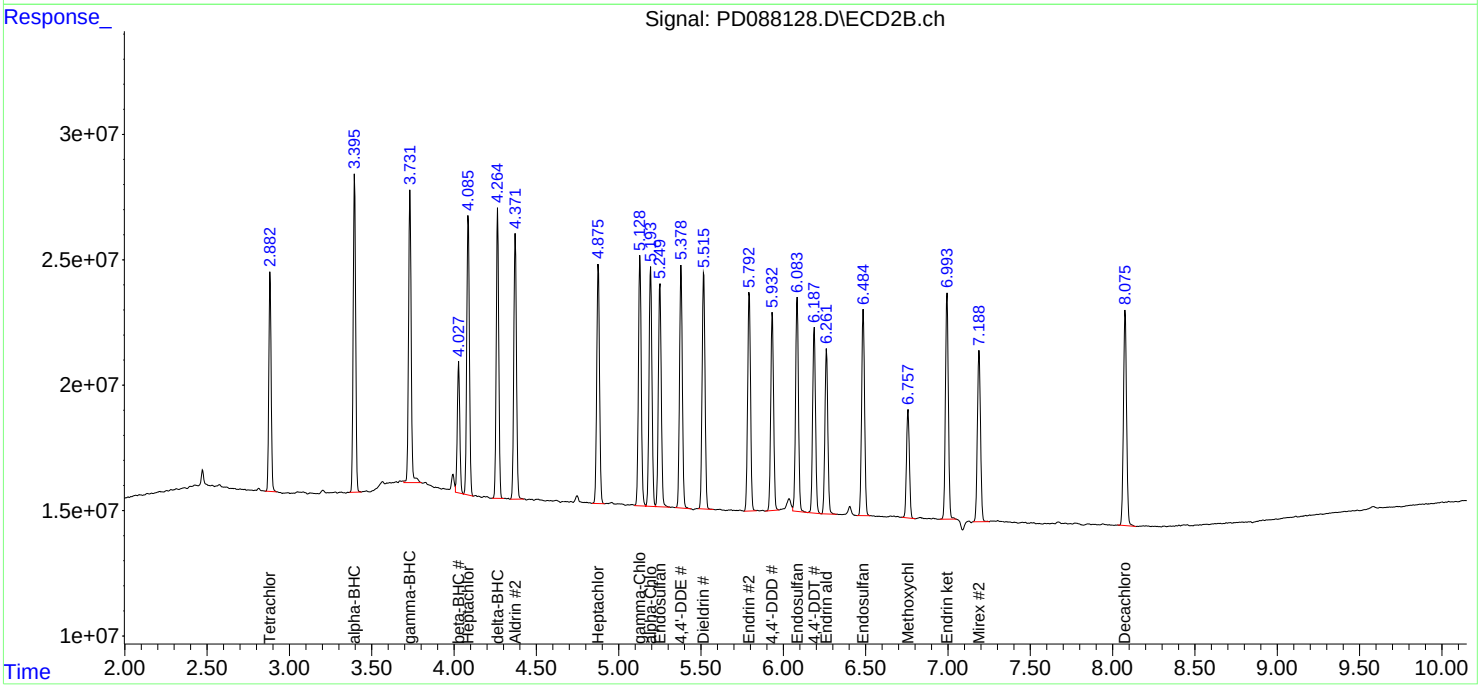
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD041825\
Data File : PD088128.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Apr 2025 14:51
Operator : AR\AJ
Sample : PSTDICC005
Misc :
ALS Vial : 9 Sample Multiplier: 1

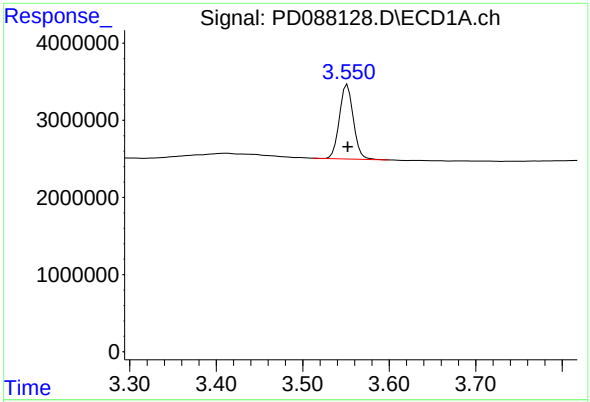
Instrument :
ECD_D
ClientSampleId :
PSTDICC005

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 19 03:53:24 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 03:51:59 2025
Response via : Initial Calibration
Integrator: ChemStation

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



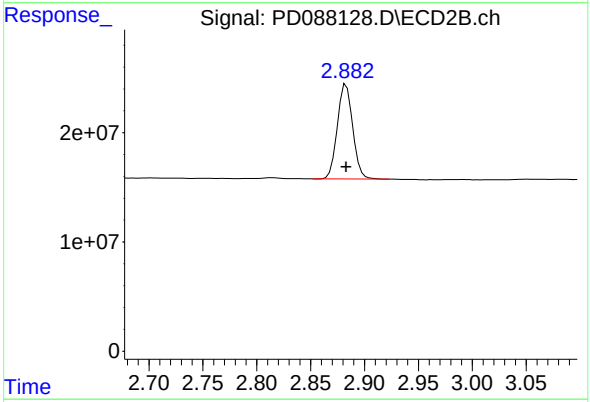




#1 Tetrachloro-m-xylene

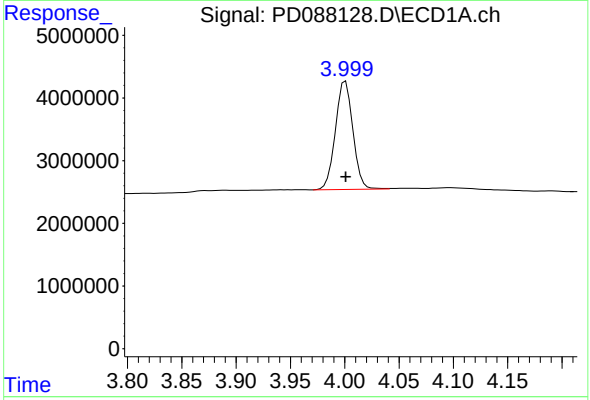
R.T.: 3.552 min
Delta R.T.: 0.000 min
Response: 10677571
Conc: 5.51 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005



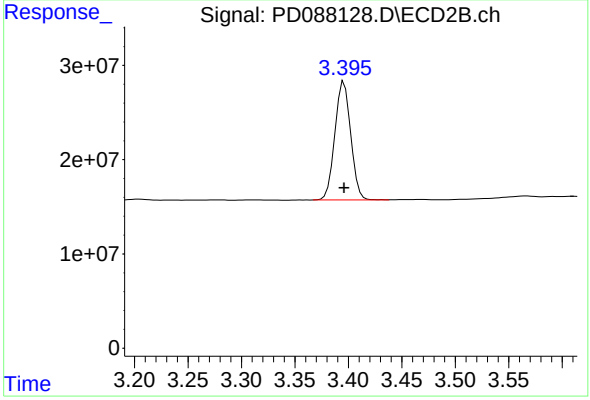
#1 Tetrachloro-m-xylene

R.T.: 2.883 min
Delta R.T.: 0.000 min
Response: 86225193
Conc: 6.15 ng/ml



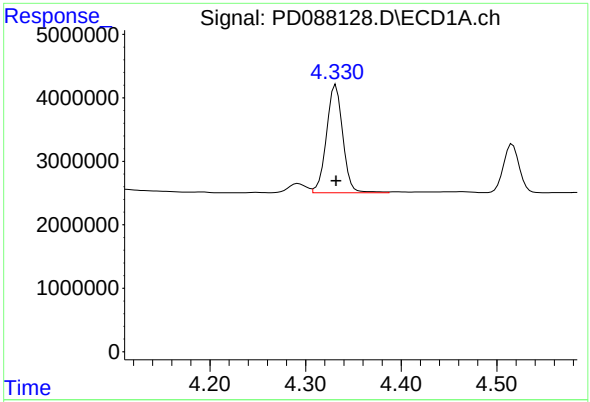
#2 alpha-BHC

R.T.: 4.001 min
Delta R.T.: 0.000 min
Response: 19344032
Conc: 4.46 ng/ml



#2 alpha-BHC

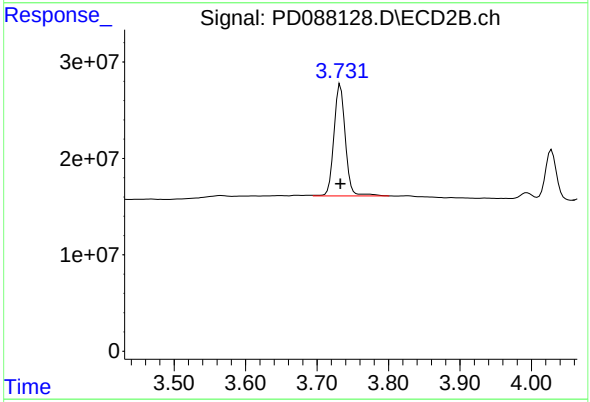
R.T.: 3.396 min
Delta R.T.: 0.000 min
Response: 129769941
Conc: 5.87 ng/ml



#3 gamma-BHC (Lindane)

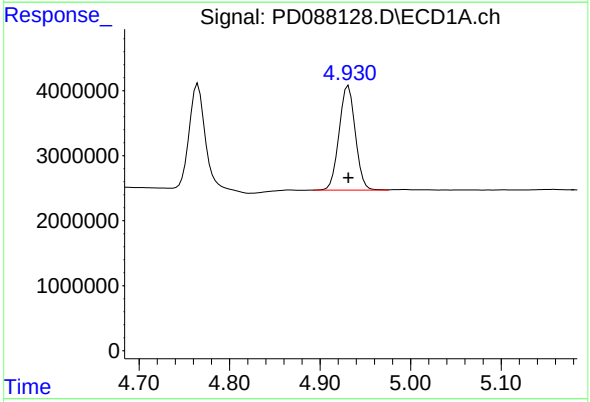
R.T.: 4.332 min
Delta R.T.: 0.000 min
Response: 20113508
Conc: 4.84 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005



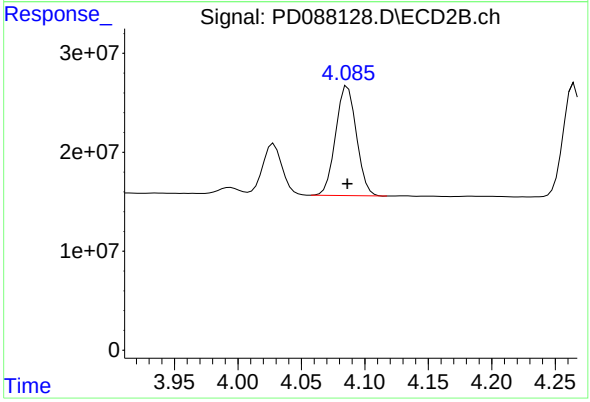
#3 gamma-BHC (Lindane)

R.T.: 3.733 min
Delta R.T.: 0.000 min
Response: 128151787
Conc: 6.23 ng/ml



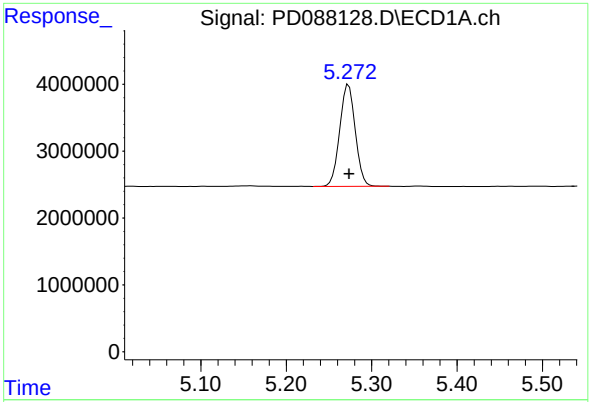
#4 Heptachlor

R.T.: 4.931 min
Delta R.T.: 0.000 min
Response: 20057945
Conc: 5.04 ng/ml



#4 Heptachlor

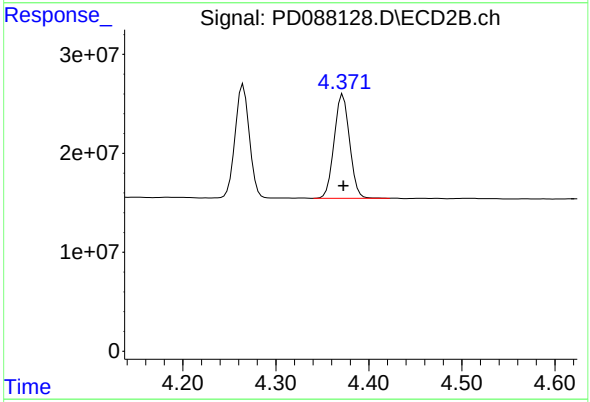
R.T.: 4.086 min
Delta R.T.: 0.000 min
Response: 126603704
Conc: 6.17 ng/ml



#5 Aldrin

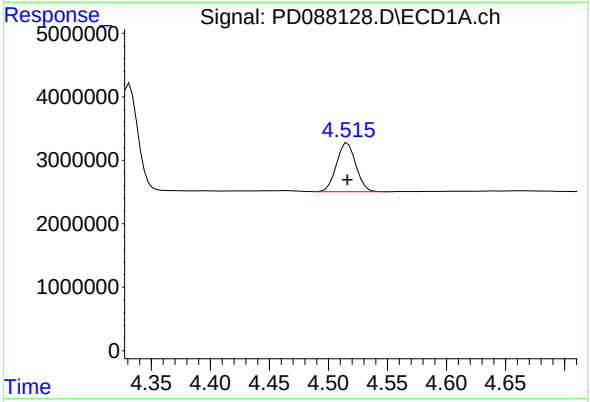
R.T.: 5.273 min
Delta R.T.: 0.000 min
Response: 19278191
Conc: 4.93 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005



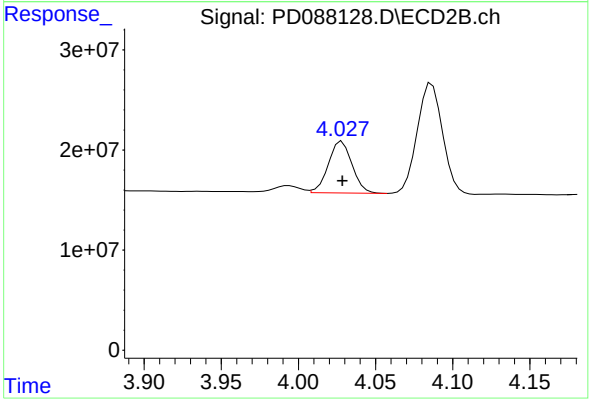
#5 Aldrin

R.T.: 4.372 min
Delta R.T.: 0.000 min
Response: 121269873
Conc: 6.06 ng/ml



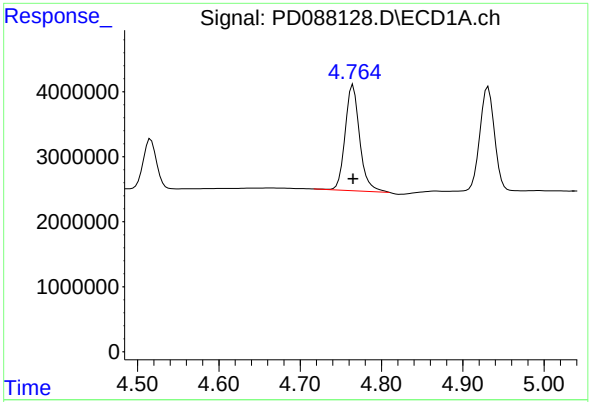
#6 beta-BHC

R.T.: 4.516 min
Delta R.T.: 0.000 min
Response: 8800396
Conc: 5.57 ng/ml



#6 beta-BHC

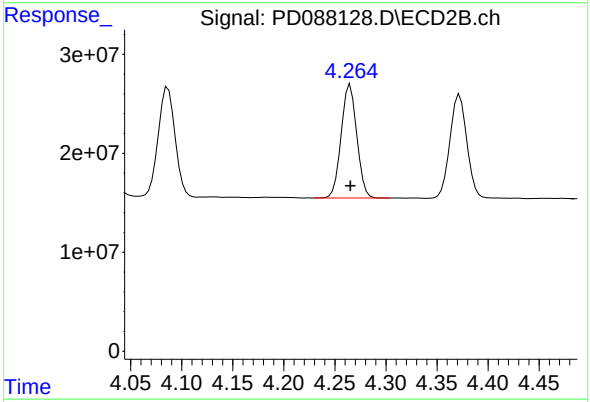
R.T.: 4.028 min
Delta R.T.: 0.000 min
Response: 55407278
Conc: 6.26 ng/ml



#7 delta-BHC

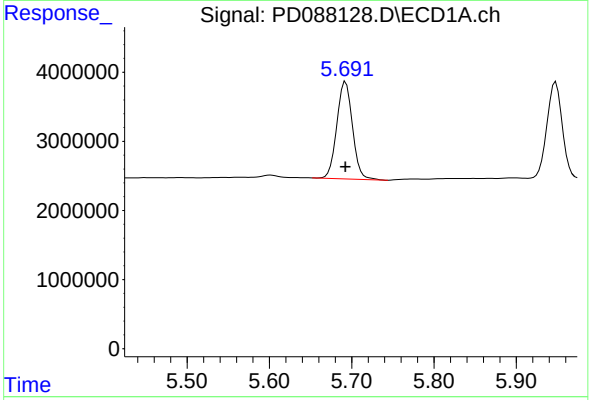
R.T.: 4.765 min
Delta R.T.: 0.000 min
Response: 20123876
Conc: 4.94 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005



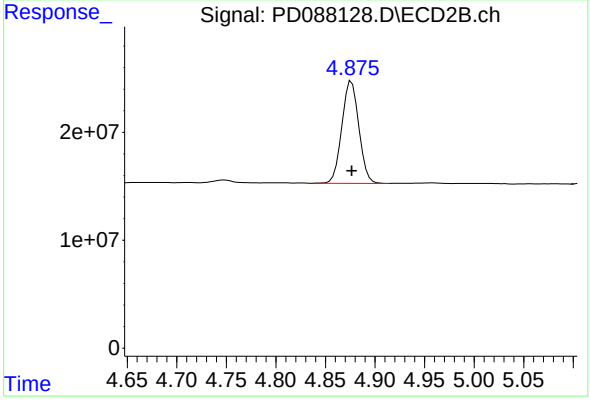
#7 delta-BHC

R.T.: 4.265 min
Delta R.T.: 0.000 min
Response: 122164045
Conc: 5.97 ng/ml



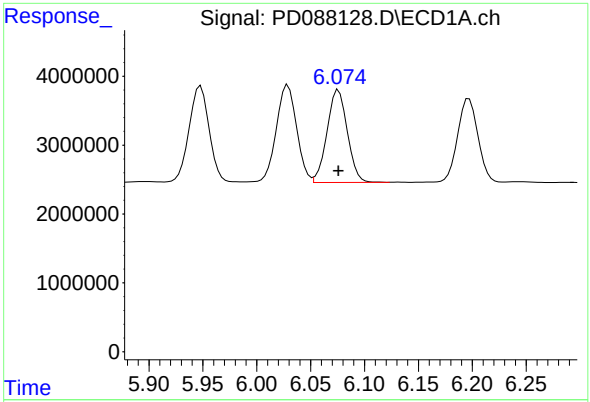
#8 Heptachlor epoxide

R.T.: 5.693 min
Delta R.T.: 0.000 min
Response: 18623118
Conc: 5.34 ng/ml



#8 Heptachlor epoxide

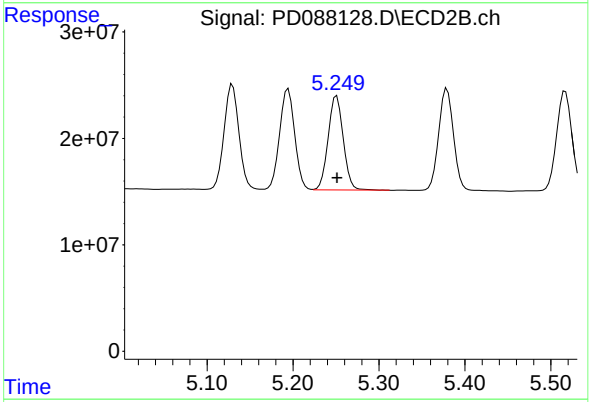
R.T.: 4.876 min
Delta R.T.: 0.000 min
Response: 112883463
Conc: 6.24 ng/ml



#9 Endosulfan I

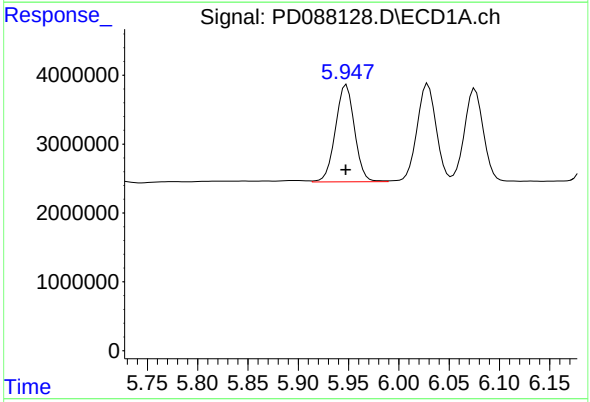
R.T.: 6.076 min
Delta R.T.: 0.000 min
Response: 17577772
Conc: 5.32 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005



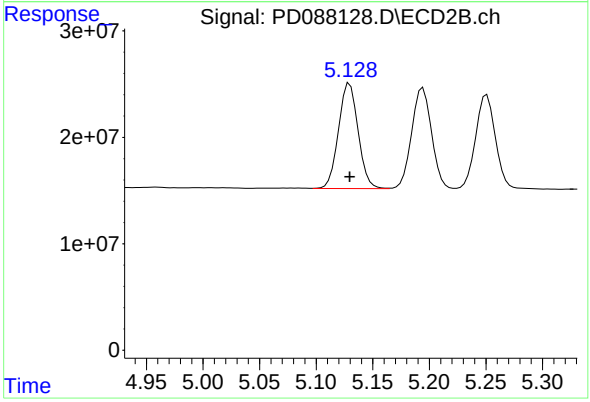
#9 Endosulfan I

R.T.: 5.251 min
Delta R.T.: 0.000 min
Response: 107849373
Conc: 6.25 ng/ml



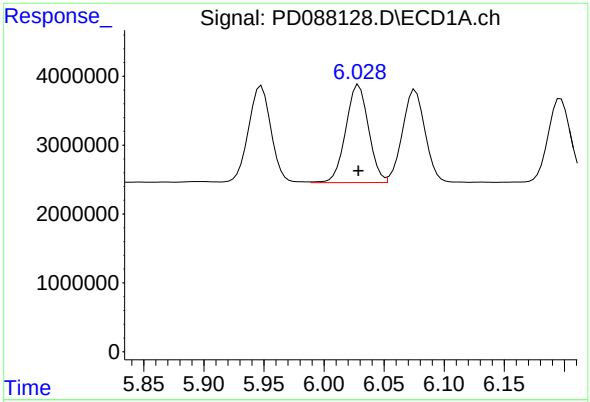
#10 gamma-Chlordane

R.T.: 5.948 min
Delta R.T.: 0.000 min
Response: 18576714
Conc: 5.25 ng/ml



#10 gamma-Chlordane

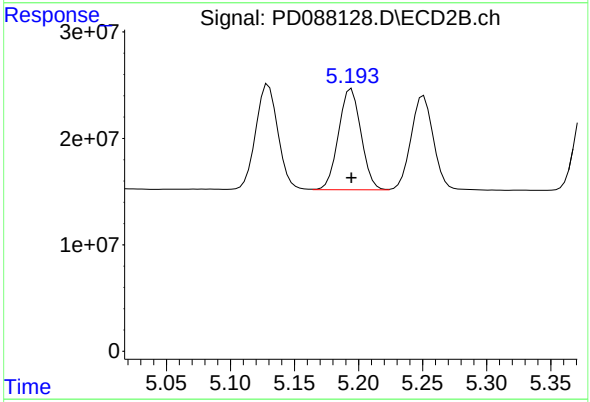
R.T.: 5.130 min
Delta R.T.: 0.000 min
Response: 119665494
Conc: 6.16 ng/ml



#11 alpha-Chlordane

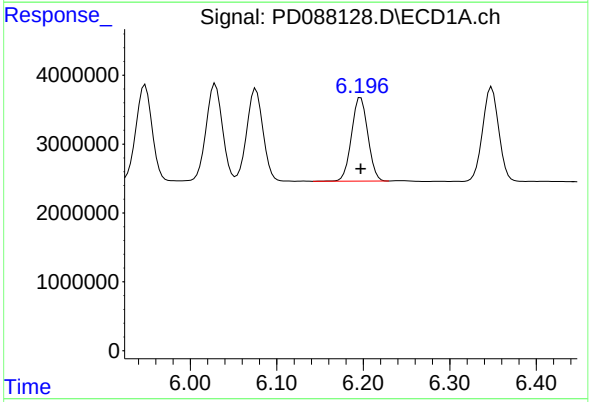
R.T.: 6.029 min
Delta R.T.: 0.000 min
Response: 18782686
Conc: 5.32 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005



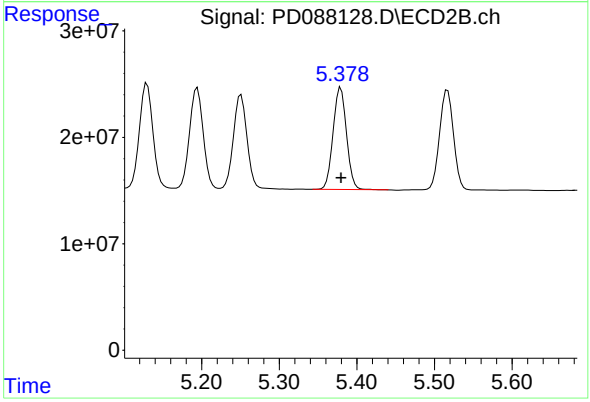
#11 alpha-Chlordane

R.T.: 5.194 min
Delta R.T.: 0.000 min
Response: 116305791
Conc: 6.20 ng/ml



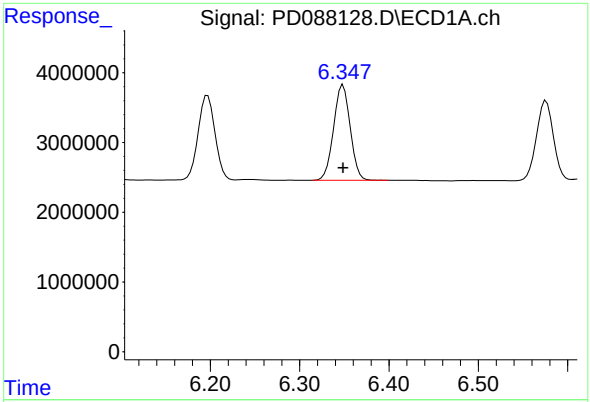
#12 4,4'-DDE

R.T.: 6.197 min
Delta R.T.: 0.000 min
Response: 15929607
Conc: 4.92 ng/ml



#12 4,4'-DDE

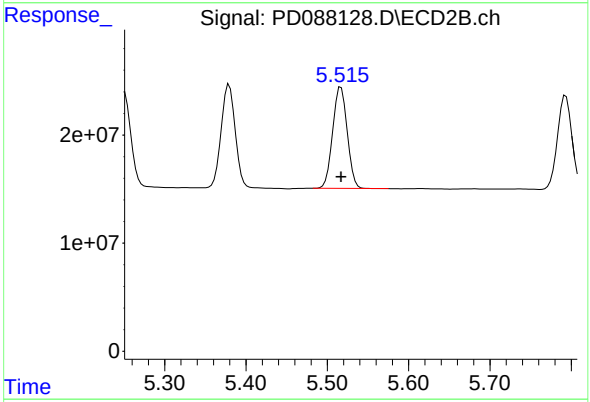
R.T.: 5.379 min
Delta R.T.: 0.000 min
Response: 115450338
Conc: 6.12 ng/ml



#13 Dieldrin

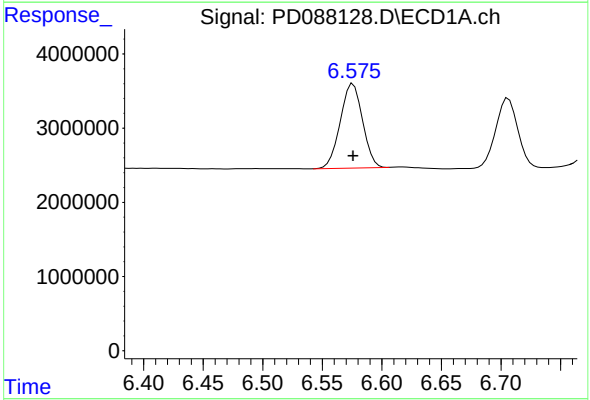
R.T.: 6.349 min
Delta R.T.: 0.000 min
Response: 17671896
Conc: 5.01 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005



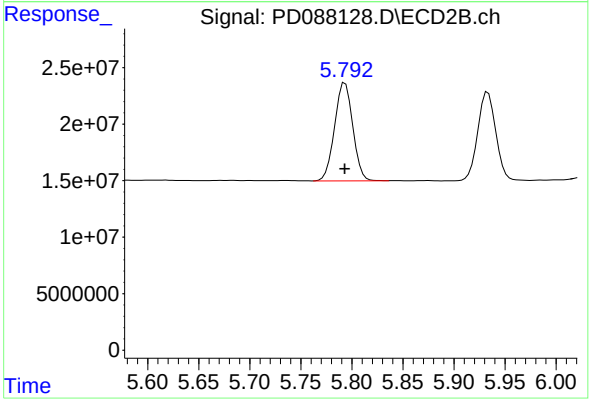
#13 Dieldrin

R.T.: 5.517 min
Delta R.T.: 0.000 min
Response: 116908075
Conc: 6.11 ng/ml



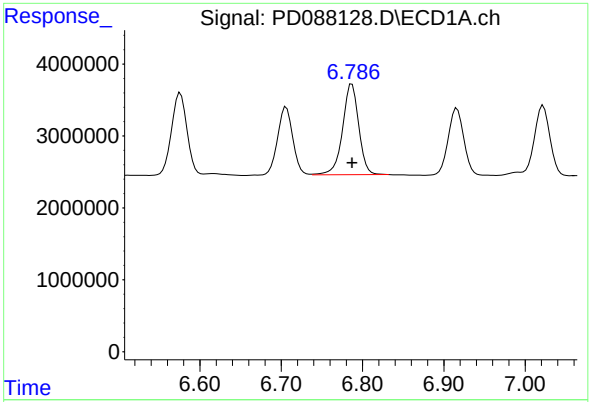
#14 Endrin

R.T.: 6.576 min
Delta R.T.: 0.000 min
Response: 14827210
Conc: 5.05 ng/ml



#14 Endrin

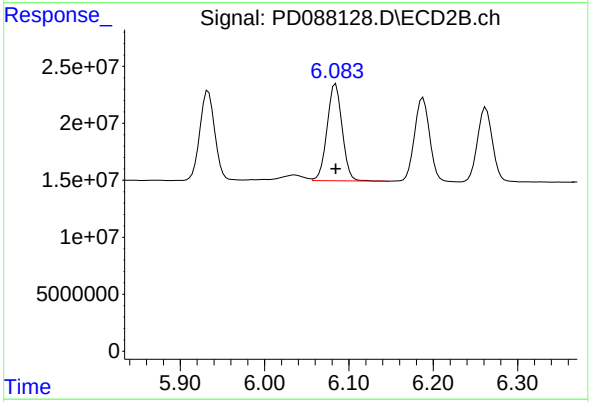
R.T.: 5.793 min
Delta R.T.: 0.000 min
Response: 107870360
Conc: 6.18 ng/ml



#15 Endosulfan II

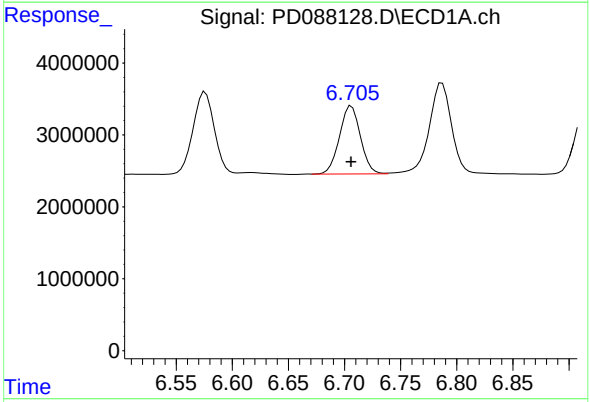
R.T.: 6.787 min
Delta R.T.: 0.000 min
Response: 17419714
Conc: 5.79 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005



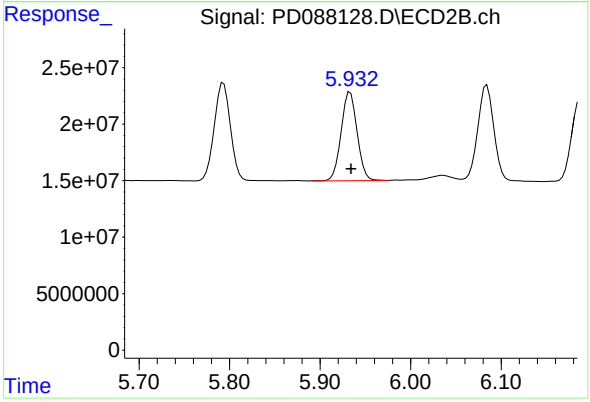
#15 Endosulfan II

R.T.: 6.084 min
Delta R.T.: 0.000 min
Response: 105459782
Conc: 6.30 ng/ml



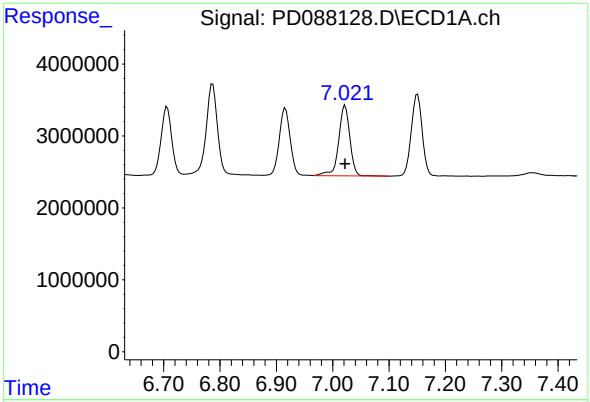
#16 4,4'-DDD

R.T.: 6.706 min
Delta R.T.: 0.000 min
Response: 12295875
Conc: 4.93 ng/ml



#16 4,4'-DDD

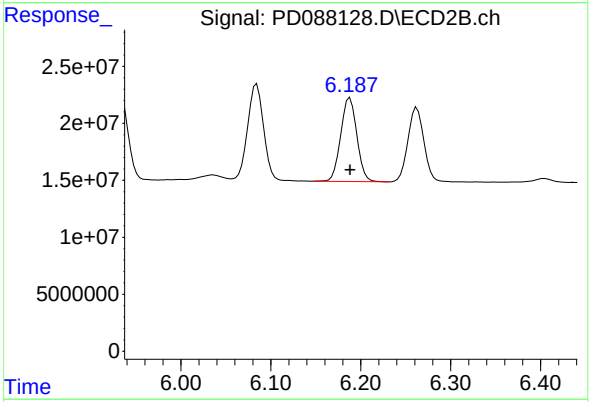
R.T.: 5.933 min
Delta R.T.: 0.000 min
Response: 96096151
Conc: 6.09 ng/ml



#17 4,4'-DDT

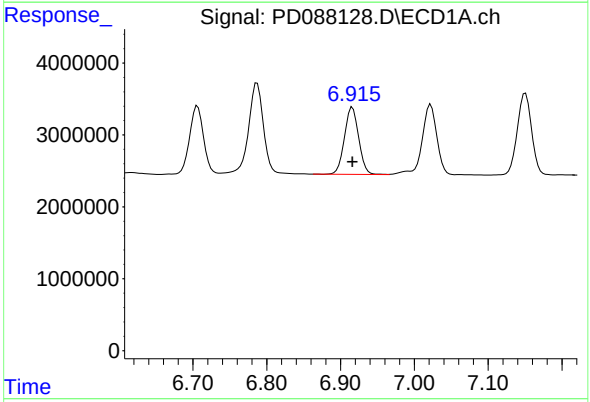
R.T.: 7.022 min
Delta R.T.: 0.000 min
Response: 13556042
Conc: 4.92 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005



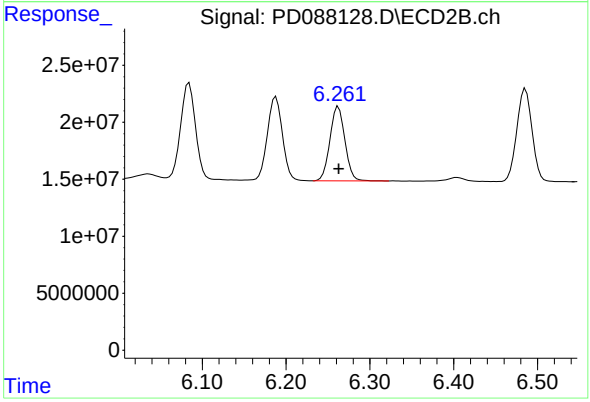
#17 4,4'-DDT

R.T.: 6.188 min
Delta R.T.: 0.000 min
Response: 91724476
Conc: 5.48 ng/ml



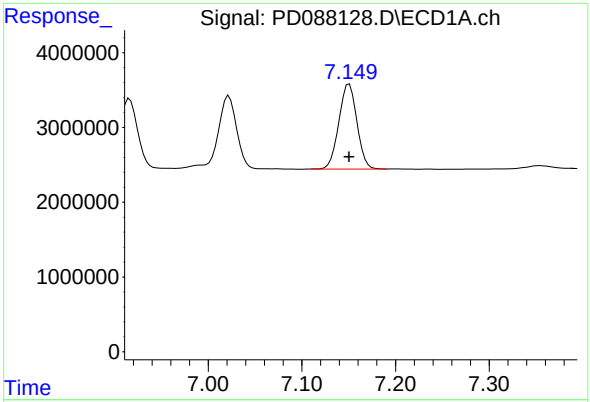
#18 Endrin aldehyde

R.T.: 6.916 min
Delta R.T.: 0.000 min
Response: 12478868
Conc: 5.55 ng/ml



#18 Endrin aldehyde

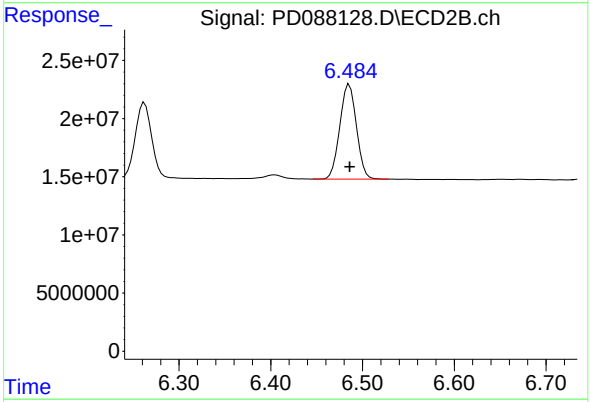
R.T.: 6.262 min
Delta R.T.: 0.000 min
Response: 80534454
Conc: 6.34 ng/ml



#19 Endosulfan Sulfate

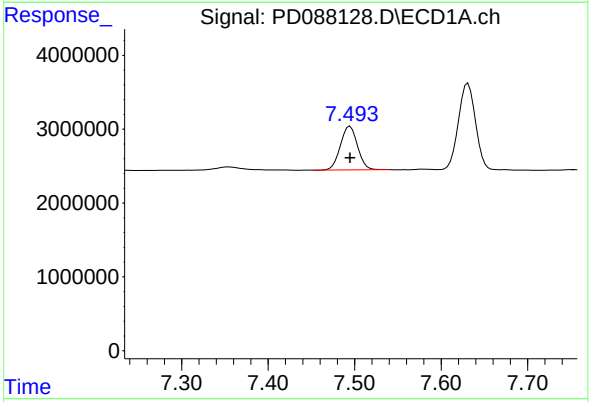
R.T.: 7.151 min
Delta R.T.: 0.000 min
Response: 15272374
Conc: 5.44 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005



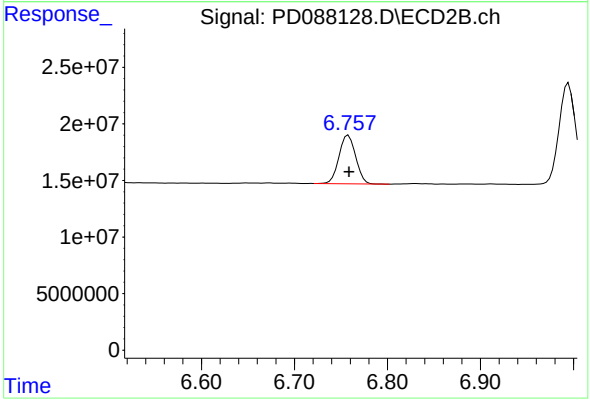
#19 Endosulfan Sulfate

R.T.: 6.486 min
Delta R.T.: 0.000 min
Response: 102582868
Conc: 6.25 ng/ml



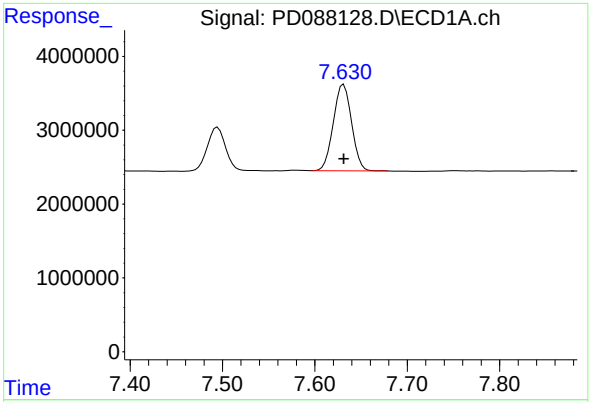
#20 Methoxychlor

R.T.: 7.495 min
Delta R.T.: 0.000 min
Response: 8094629
Conc: 5.51 ng/ml



#20 Methoxychlor

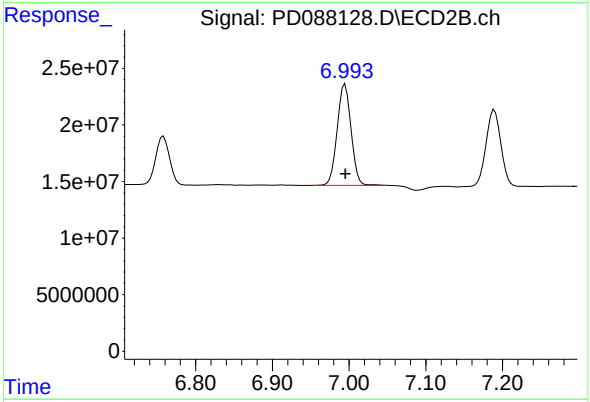
R.T.: 6.758 min
Delta R.T.: 0.000 min
Response: 53678604
Conc: 6.07 ng/ml



#21 Endrin ketone

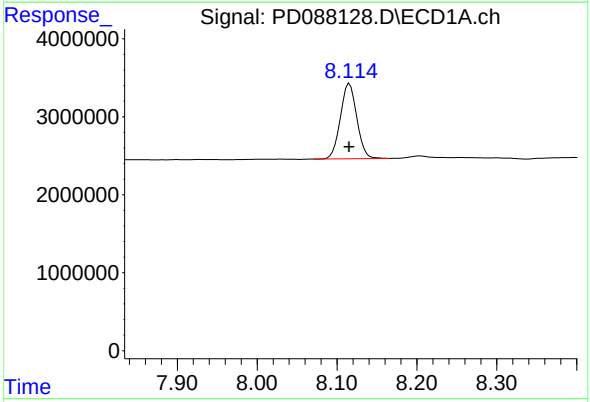
R.T.: 7.631 min
Delta R.T.: 0.000 min
Response: 16074498
Conc: 5.29 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005



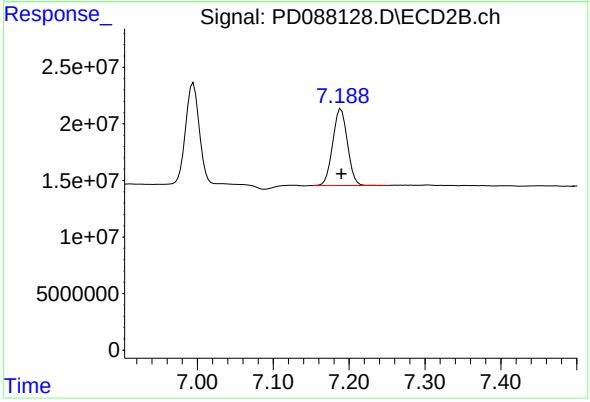
#21 Endrin ketone

R.T.: 6.995 min
Delta R.T.: 0.000 min
Response: 112866090
Conc: 6.30 ng/ml



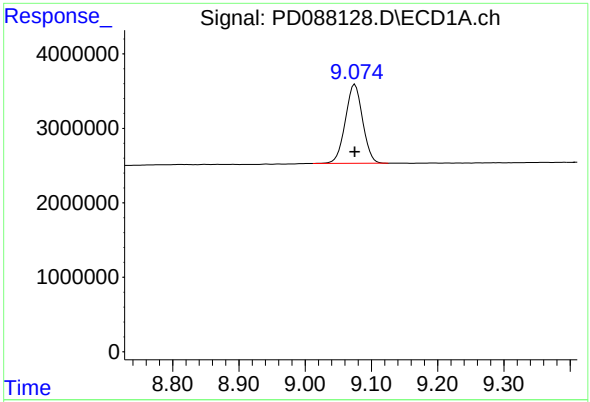
#22 Mirex

R.T.: 8.116 min
Delta R.T.: 0.000 min
Response: 13799458
Conc: 6.13 ng/ml



#22 Mirex

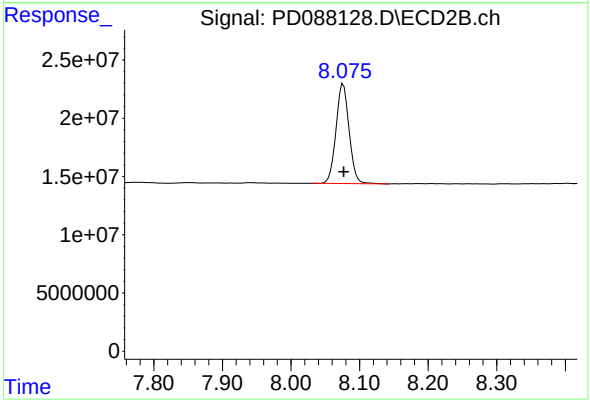
R.T.: 7.189 min
Delta R.T.: 0.000 min
Response: 91589011
Conc: 6.53 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.075 min
Delta R.T.: 0.000 min
Response: 19250443
Conc: 6.06 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 113373951
Conc: 6.49 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051325\
Data File : PD088498.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2025 09:41
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PEM

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 12:06:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	System Monitoring Compounds							
1)	SA Tetrachlo...	3.551	2.881	47263112	327.5E6	23.662	22.398	
28)	SA Decachlor...	9.074	8.073	78502399	385.3E6	23.730	20.847	
	Target Compounds							
2)	A alpha-BHC	4.000	3.394	46551953	265.9E6	10.796	11.632	
3)	MA gamma-BHC...	4.331	3.730	46855378	248.5E6	11.189	11.539	
4)	MA Heptachlor	0.000	4.082	0	1382484	N.D.	0.065	#
5)	MB Aldrin	0.000	4.363	0	3183695	N.D.	0.153	#
6)	B beta-BHC	4.516	4.026	19897245	111.3E6	12.257	12.027	
7)	B delta-BHC	4.778	4.249f	3848717	283940	0.933	0.013	#
8)	B Heptachlo...	5.682	4.876	2152680	91551	0.602	0.005	#
9)	A Endosulfan I	6.068	5.234f	224065	3520017	0.066	0.195	#
10)	B gamma-Chl...	5.946	5.128	5047104	7764624	1.393	0.383	#
11)	B alpha-Chl...	6.034	5.191	1705189	7585547	0.472	0.387	
12)	B 4,4'-DDE	6.201	5.380	31336	5312894	0.010	0.270	#
13)	MA Dieldrin	6.363	5.516	275535	233254	0.077	0.012	#
14)	MA Endrin	6.575	5.790	177.2E6	941.1E6	59.427	51.699	
15)	B Endosulfa...	6.771f	6.087	2293422	1821391	0.734	0.104	#
16)	A 4,4'-DDD	6.705	5.931	4335330	26170683	1.724	1.597	
17)	MA 4,4'-DDT	7.021	6.185	332.1E6	1699.4E6	119.584	99.868	
18)	B Endrin al...	6.917	6.259	1009509	12256262	0.437	0.921	#
19)	B Endosulfa...	0.000	6.461f	0	751258	N.D.	0.044	#
20)	A Methoxychlor	7.494	6.755	406.3E6	1826.2E6	270.965	200.217	#
21)	B Endrin ke...	7.630	6.992	2339247	24535458	0.758	1.312	#
22)	Mirex	0.000	7.177	0	3233711	N.D.	0.218	#
23)	Chlordane-1	0.000	3.902	0	932182	N.D.	1.163	#
24)	Chlordane-2	0.000	4.489	0	11533827	N.D.	13.975	#
25)	Chlordane-3	5.946	5.128	5047104	7764624	7.482	3.070	#
26)	Chlordane-4	6.034	5.191	1705189	7585547	2.091	3.548	#
27)	Chlordane-5	6.867	6.087	239580	1821391	1.763	1.886	

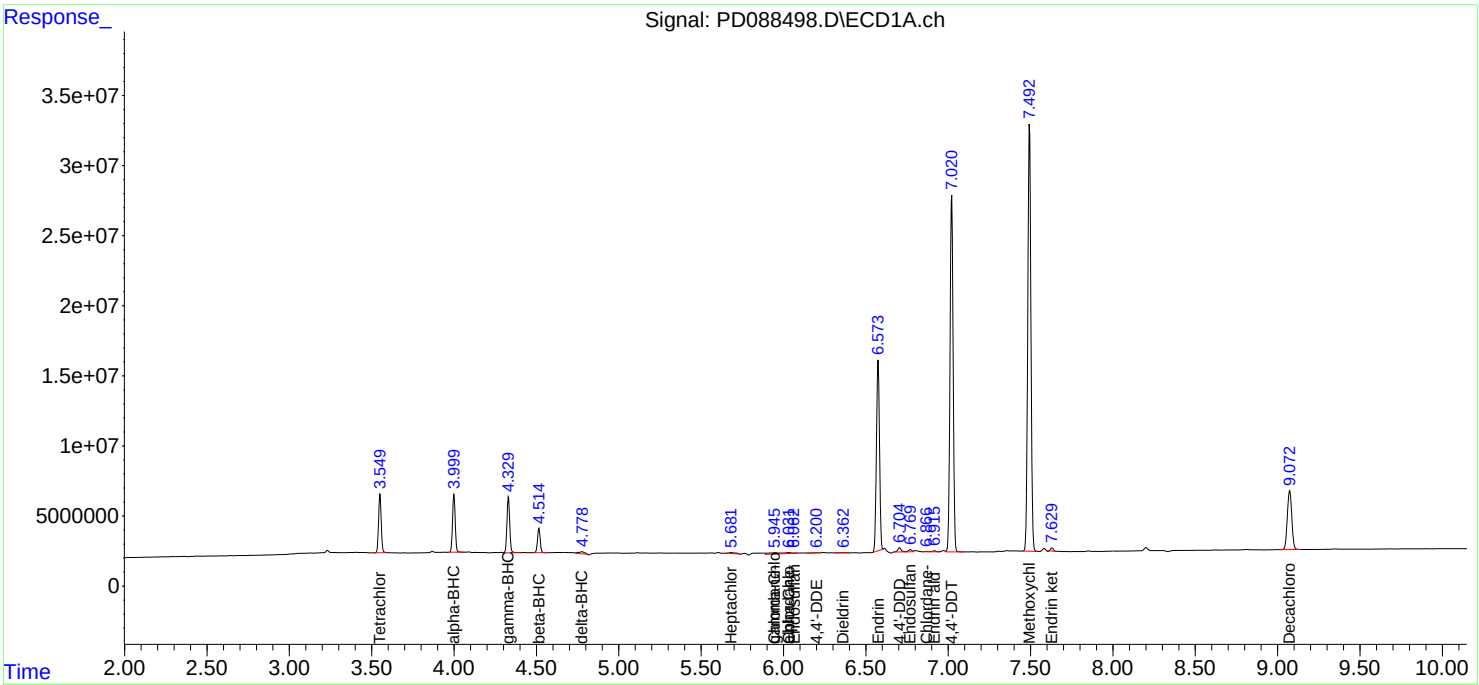
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

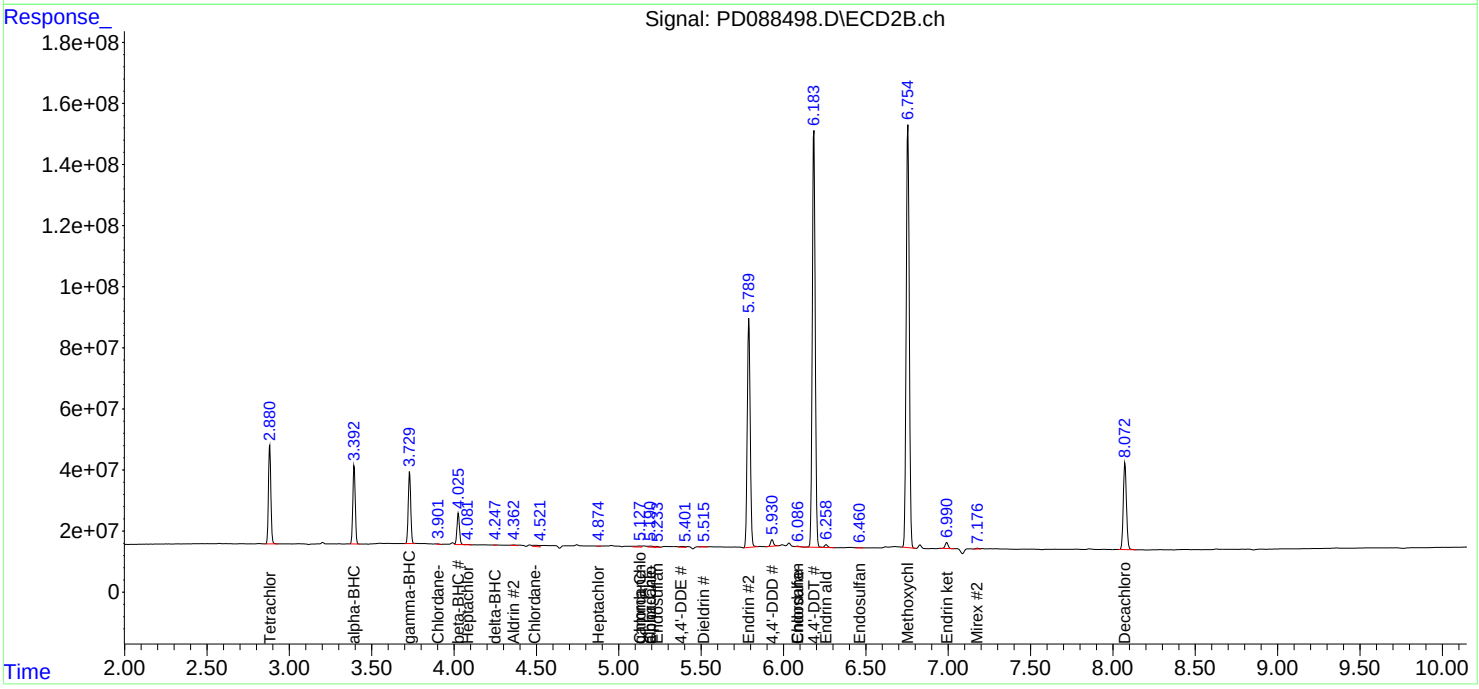
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051325\
Data File : PD088498.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2025 09:41
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

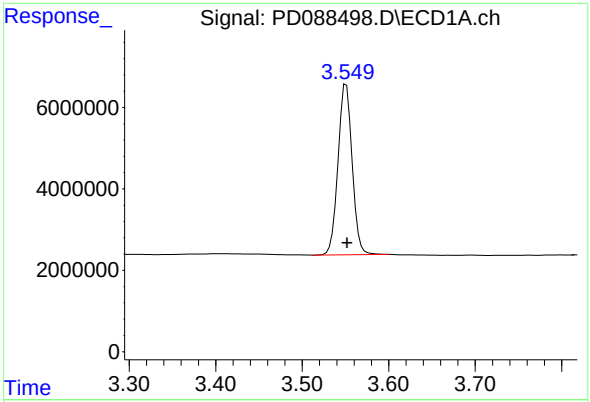
Instrument :
ECD_D
ClientSampleId :
PEM

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 12:06:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



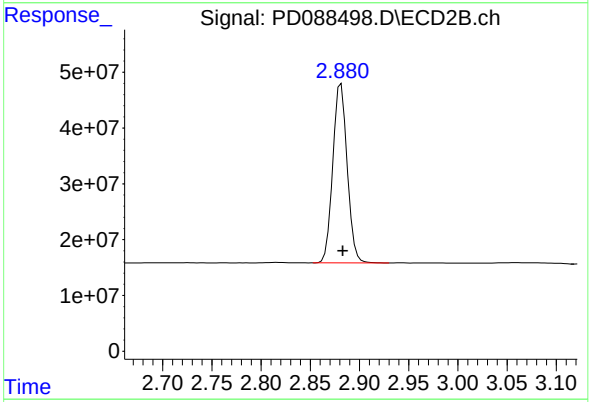




#1 Tetrachloro-m-xylene

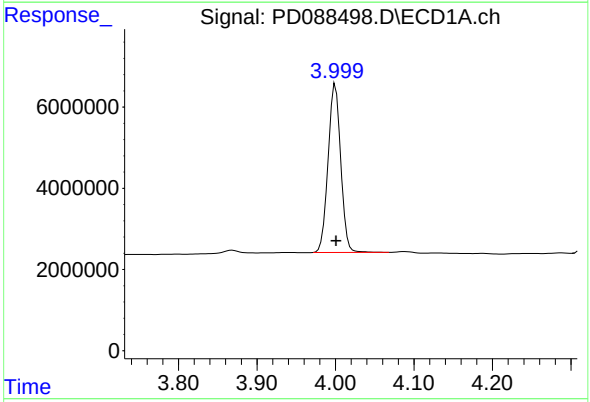
R.T.: 3.551 min
Delta R.T.: -0.001 min
Response: 47263112
Conc: 23.66 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



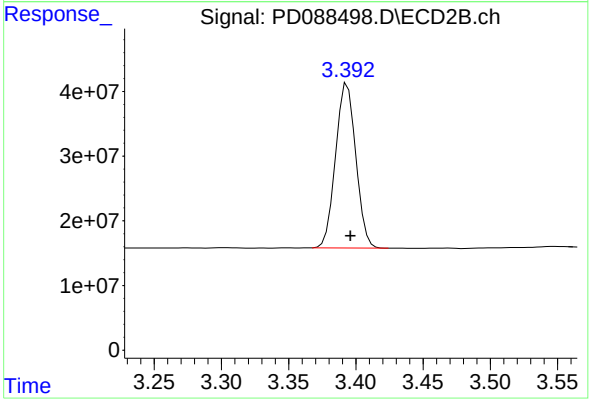
#1 Tetrachloro-m-xylene

R.T.: 2.881 min
Delta R.T.: -0.002 min
Response: 327493996
Conc: 22.40 ng/ml



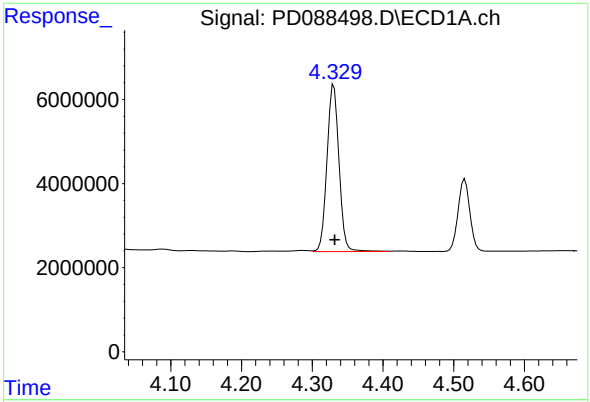
#2 alpha-BHC

R.T.: 4.000 min
Delta R.T.: -0.001 min
Response: 46551953
Conc: 10.80 ng/ml



#2 alpha-BHC

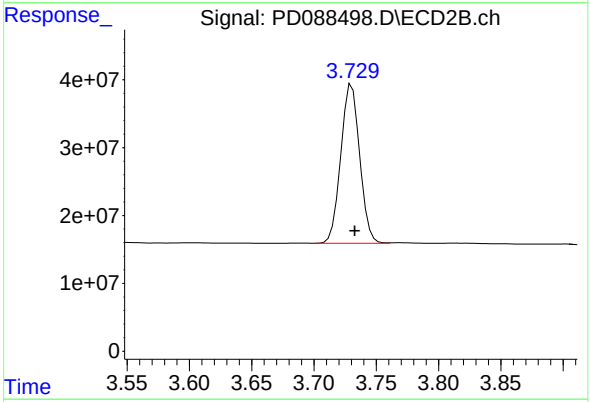
R.T.: 3.394 min
Delta R.T.: -0.002 min
Response: 265932482
Conc: 11.63 ng/ml



#3 gamma-BHC (Lindane)

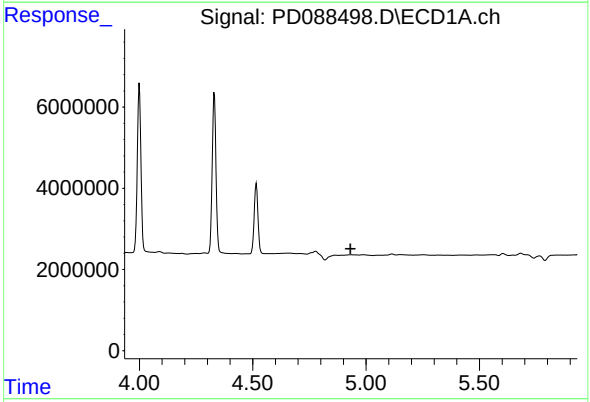
R.T.: 4.331 min
Delta R.T.: -0.001 min
Response: 46855378
Conc: 11.19 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



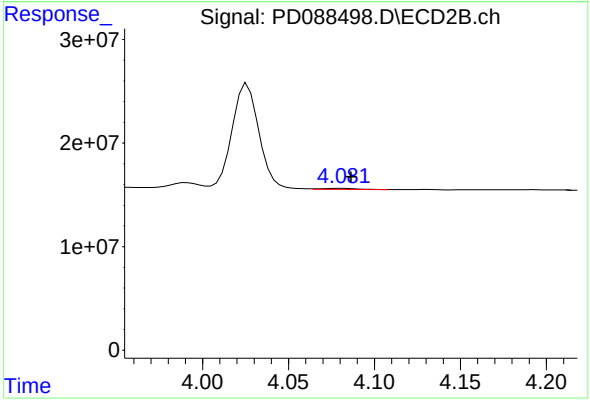
#3 gamma-BHC (Lindane)

R.T.: 3.730 min
Delta R.T.: -0.003 min
Response: 248541561
Conc: 11.54 ng/ml



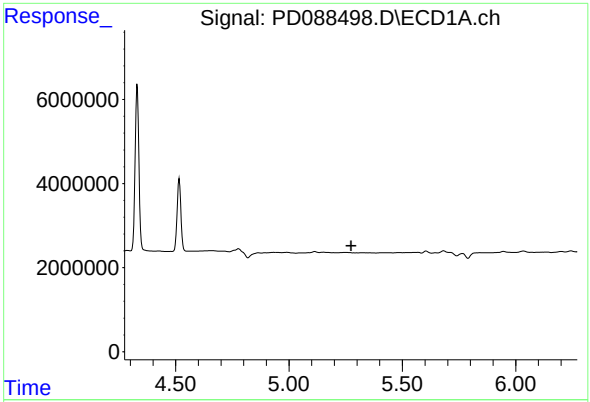
#4 Heptachlor

R.T.: 0.000 min
Exp R.T. : 4.931 min
Response: 0
Conc: N.D.



#4 Heptachlor

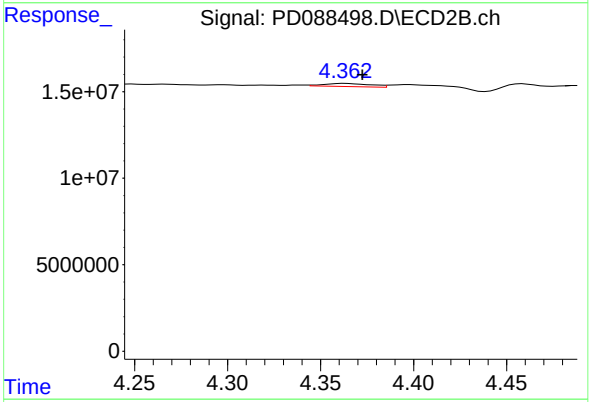
R.T.: 4.082 min
Delta R.T.: -0.004 min
Response: 1382484
Conc: 0.06 ng/ml



#5 Aldrin

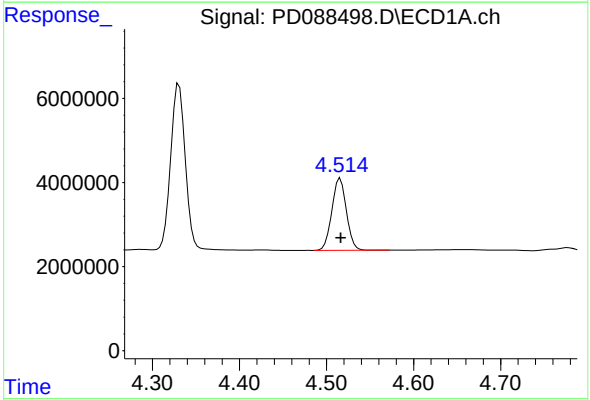
R.T.: 0.000 min
Exp R.T. : 5.273 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
PEM



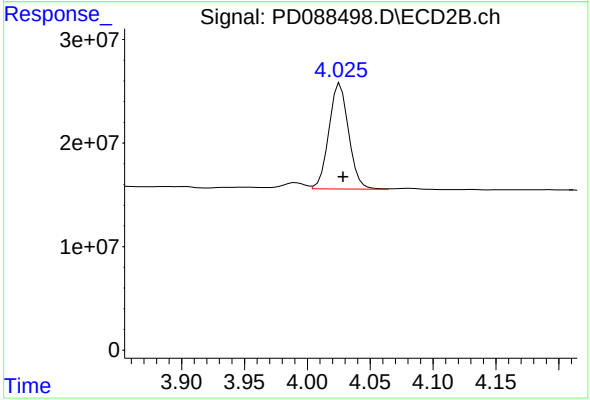
#5 Aldrin

R.T.: 4.363 min
Delta R.T.: -0.009 min
Response: 3183695
Conc: 0.15 ng/ml



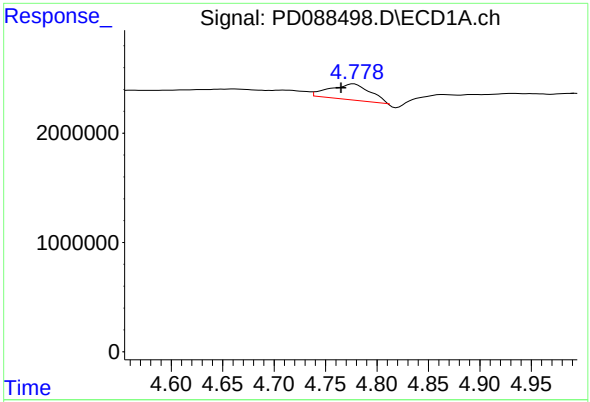
#6 beta-BHC

R.T.: 4.516 min
Delta R.T.: 0.000 min
Response: 19897245
Conc: 12.26 ng/ml



#6 beta-BHC

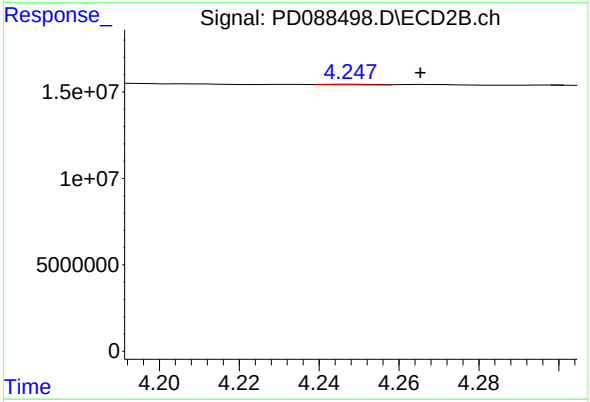
R.T.: 4.026 min
Delta R.T.: -0.002 min
Response: 111296685
Conc: 12.03 ng/ml



#7 delta-BHC

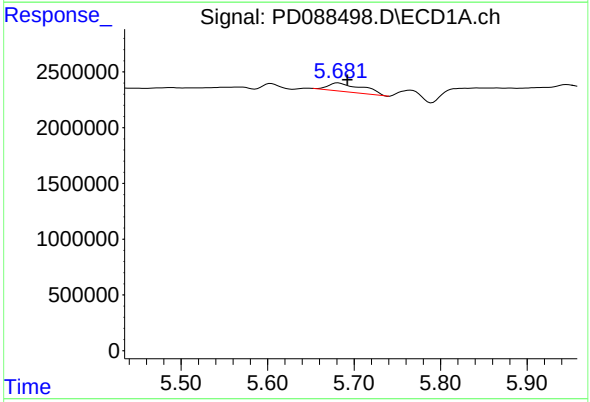
R.T.: 4.778 min
Delta R.T.: 0.012 min
Response: 3848717
Conc: 0.93 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



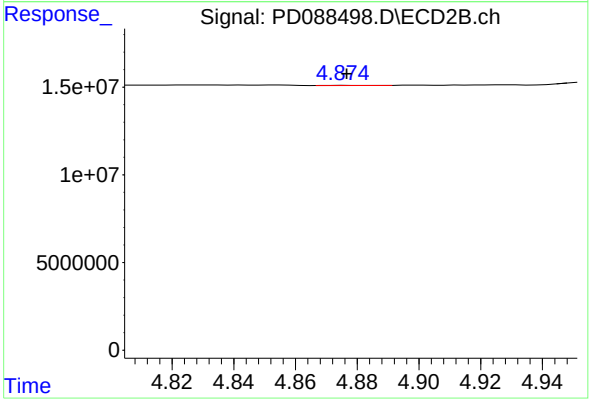
#7 delta-BHC

R.T.: 4.249 min
Delta R.T.: -0.017 min
Response: 283940
Conc: 0.01 ng/ml



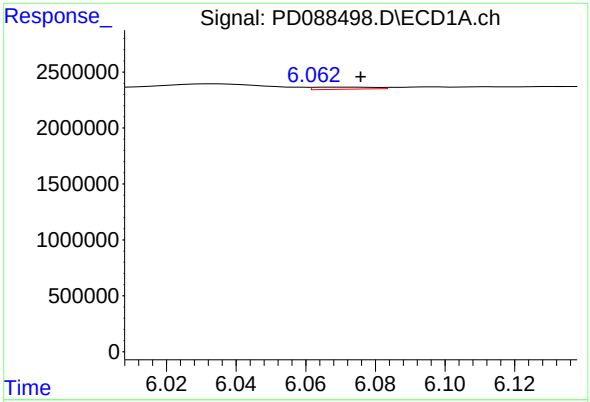
#8 Heptachlor epoxide

R.T.: 5.682 min
Delta R.T.: -0.011 min
Response: 2152680
Conc: 0.60 ng/ml



#8 Heptachlor epoxide

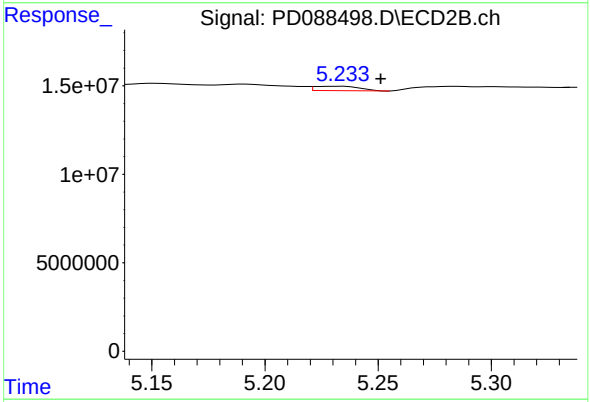
R.T.: 4.876 min
Delta R.T.: 0.000 min
Response: 91551
Conc: 0.00 ng/ml



#9 Endosulfan I

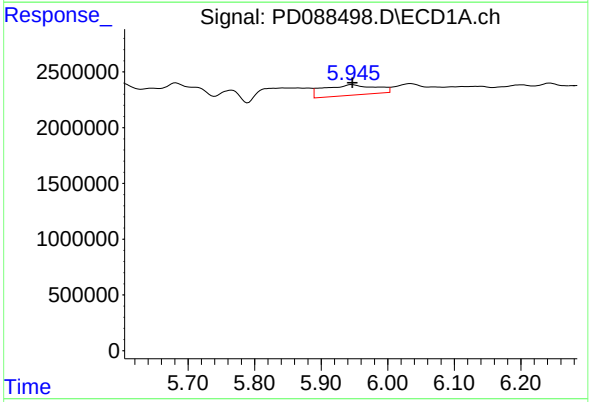
R.T.: 6.068 min
Delta R.T.: -0.008 min
Response: 224065
Conc: 0.07 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



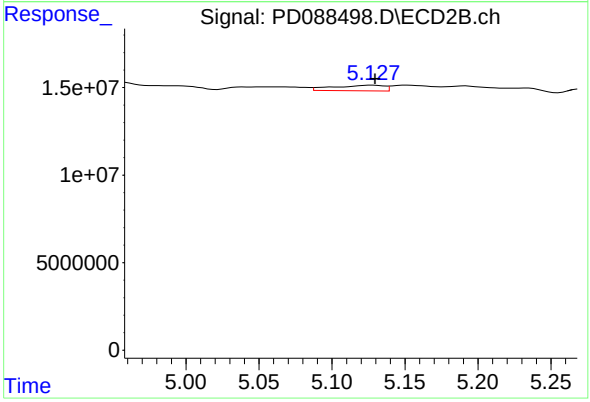
#9 Endosulfan I

R.T.: 5.234 min
Delta R.T.: -0.017 min
Response: 3520017
Conc: 0.20 ng/ml



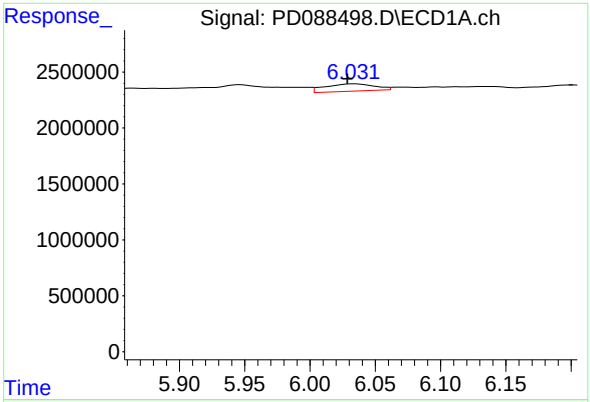
#10 gamma-Chlordane

R.T.: 5.946 min
Delta R.T.: 0.000 min
Response: 5047104
Conc: 1.39 ng/ml



#10 gamma-Chlordane

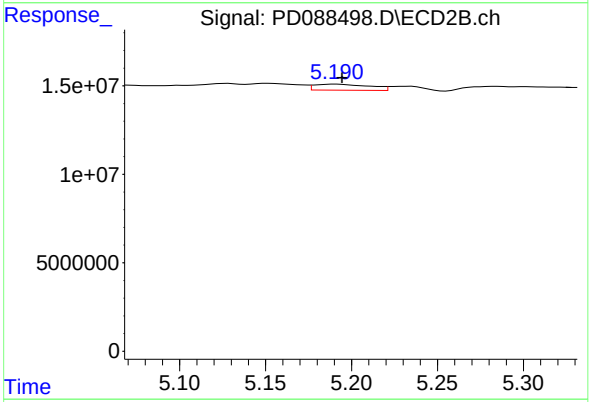
R.T.: 5.128 min
Delta R.T.: -0.002 min
Response: 7764624
Conc: 0.38 ng/ml



#11 alpha-Chlordane

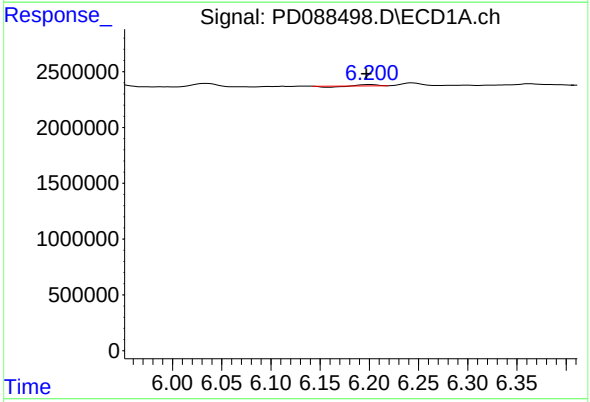
R.T.: 6.034 min
Delta R.T.: 0.006 min
Response: 1705189
Conc: 0.47 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



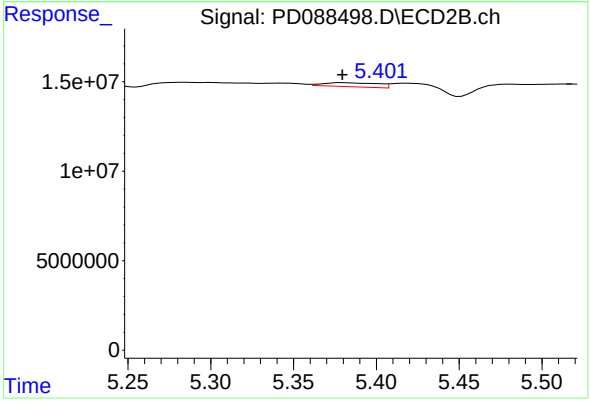
#11 alpha-Chlordane

R.T.: 5.191 min
Delta R.T.: -0.003 min
Response: 7585547
Conc: 0.39 ng/ml



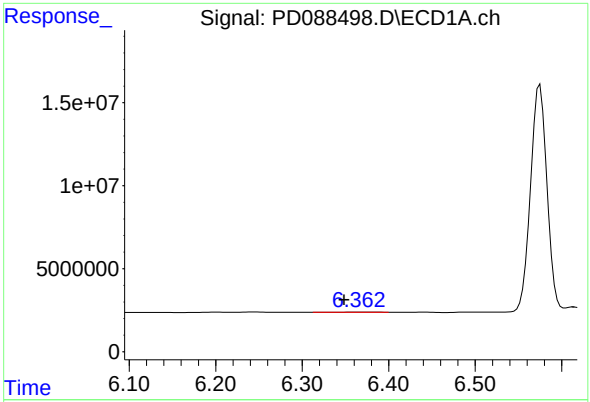
#12 4,4'-DDE

R.T.: 6.201 min
Delta R.T.: 0.004 min
Response: 31336
Conc: 0.01 ng/ml



#12 4,4'-DDE

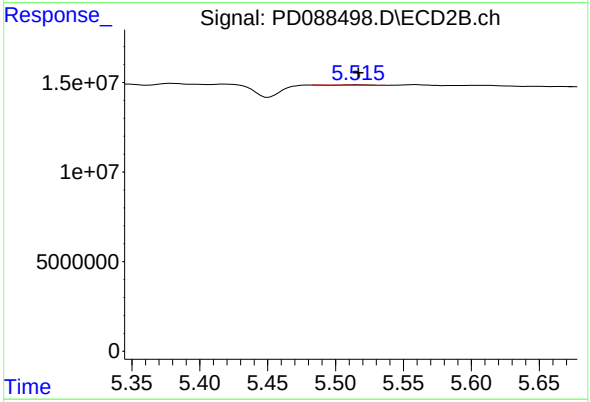
R.T.: 5.380 min
Delta R.T.: 0.000 min
Response: 5312894
Conc: 0.27 ng/ml



#13 Dieldrin

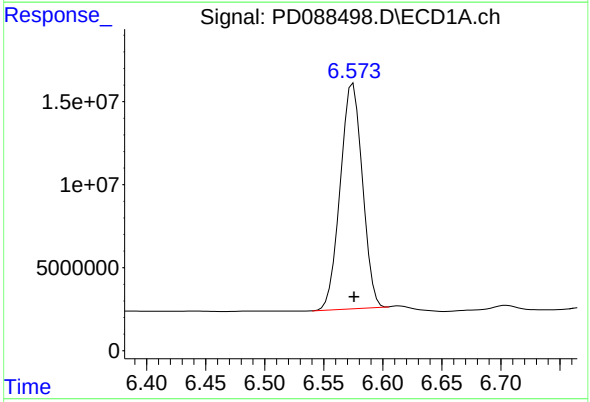
R.T.: 6.363 min
Delta R.T.: 0.015 min
Response: 275535
Conc: 0.08 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



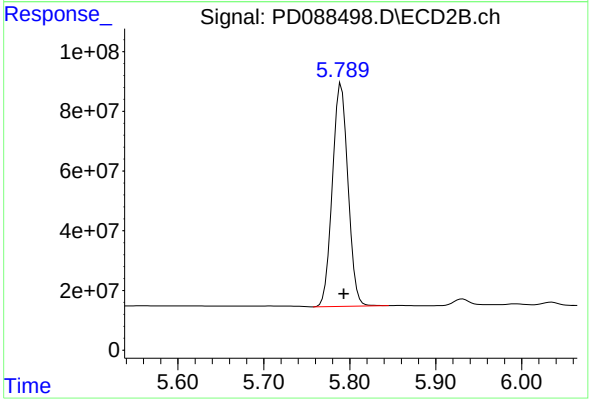
#13 Dieldrin

R.T.: 5.516 min
Delta R.T.: -0.001 min
Response: 233254
Conc: 0.01 ng/ml



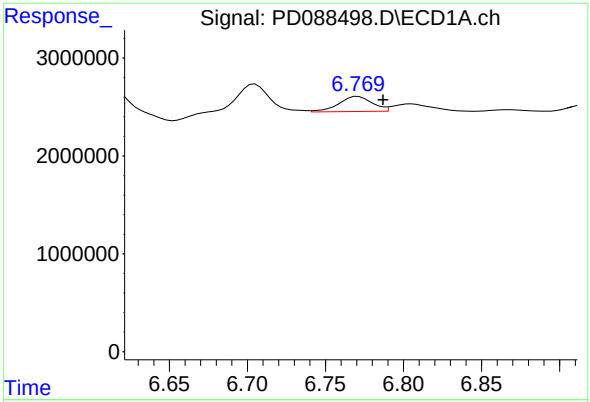
#14 Endrin

R.T.: 6.575 min
Delta R.T.: 0.000 min
Response: 177244119
Conc: 59.43 ng/ml



#14 Endrin

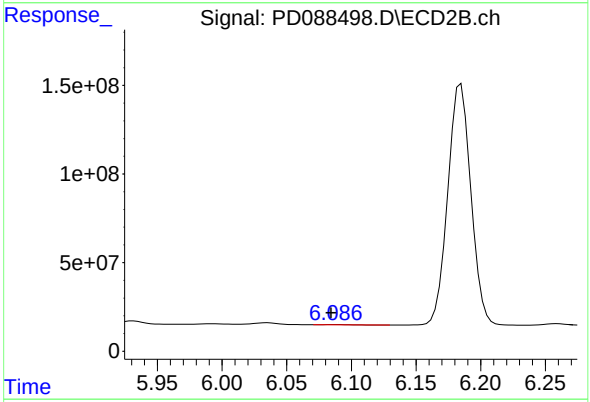
R.T.: 5.790 min
Delta R.T.: -0.003 min
Response: 941050923
Conc: 51.70 ng/ml



#15 Endosulfan II

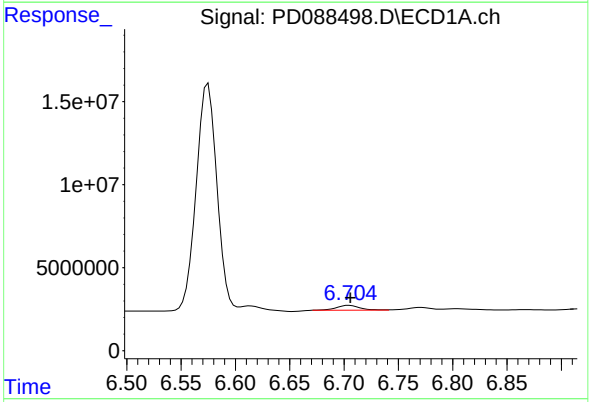
R.T.: 6.771 min
Delta R.T.: -0.016 min
Response: 2293422
Conc: 0.73 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



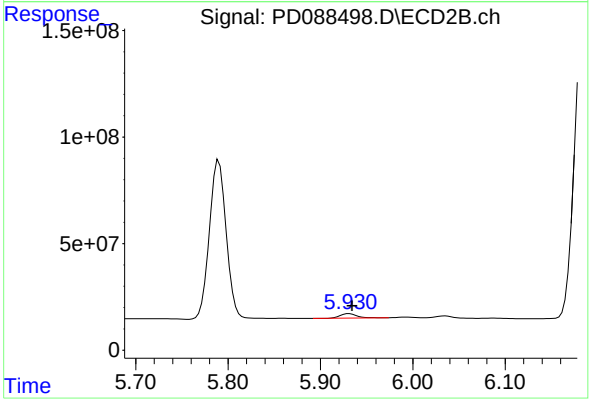
#15 Endosulfan II

R.T.: 6.087 min
Delta R.T.: 0.003 min
Response: 1821391
Conc: 0.10 ng/ml



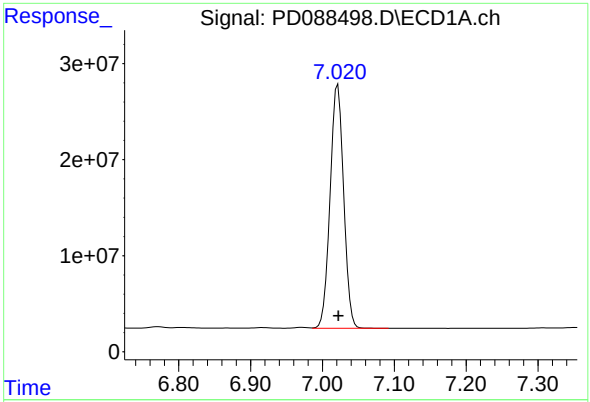
#16 4,4'-DDD

R.T.: 6.705 min
Delta R.T.: 0.000 min
Response: 4335330
Conc: 1.72 ng/ml



#16 4,4'-DDD

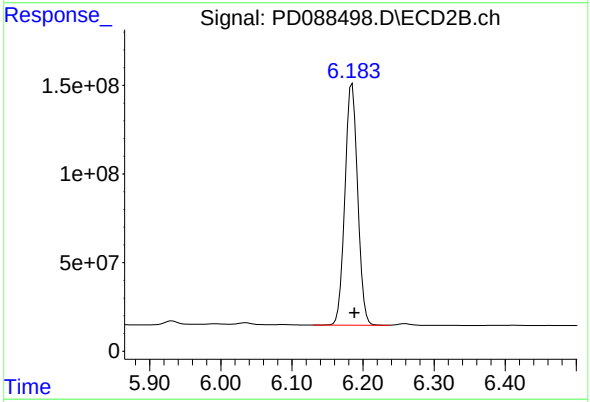
R.T.: 5.931 min
Delta R.T.: -0.003 min
Response: 26170683
Conc: 1.60 ng/ml



#17 4,4'-DDT

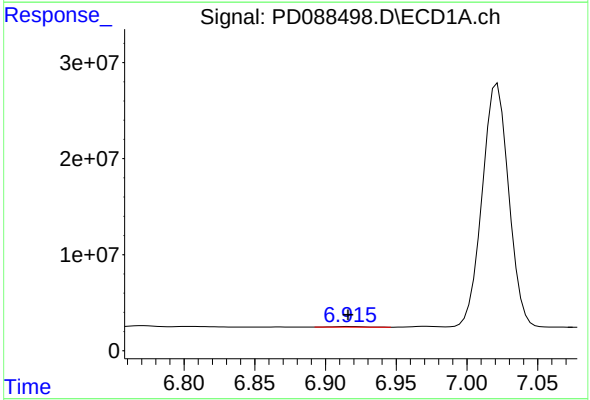
R.T.: 7.021 min
Delta R.T.: 0.000 min
Response: 332149557
Conc: 119.58 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



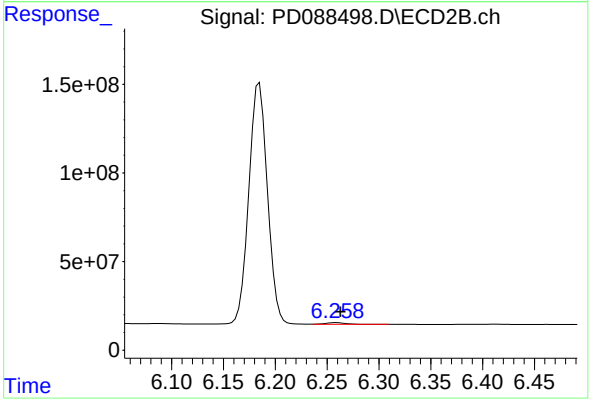
#17 4,4'-DDT

R.T.: 6.185 min
Delta R.T.: -0.003 min
Response: 1699406352
Conc: 99.87 ng/ml



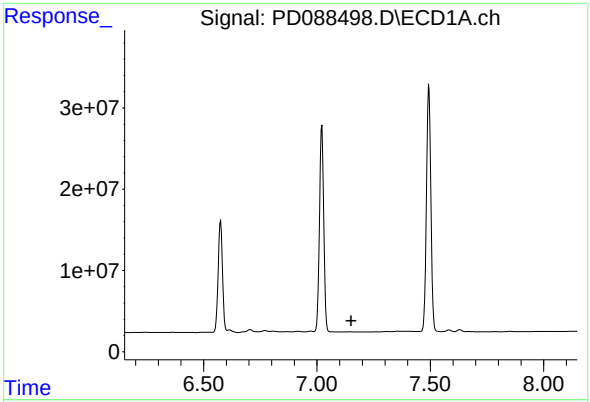
#18 Endrin aldehyde

R.T.: 6.917 min
Delta R.T.: 0.000 min
Response: 1009509
Conc: 0.44 ng/ml



#18 Endrin aldehyde

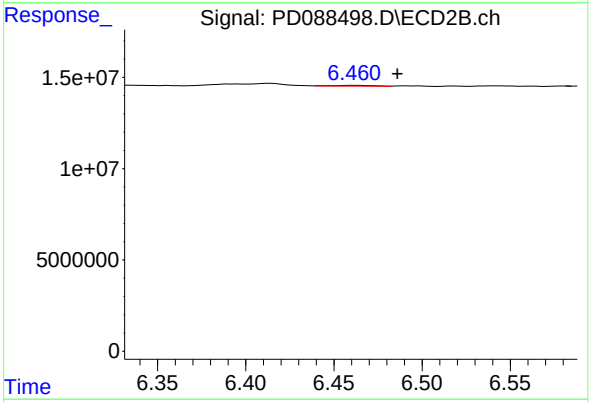
R.T.: 6.259 min
Delta R.T.: -0.004 min
Response: 12256262
Conc: 0.92 ng/ml



#19 Endosulfan Sulfate

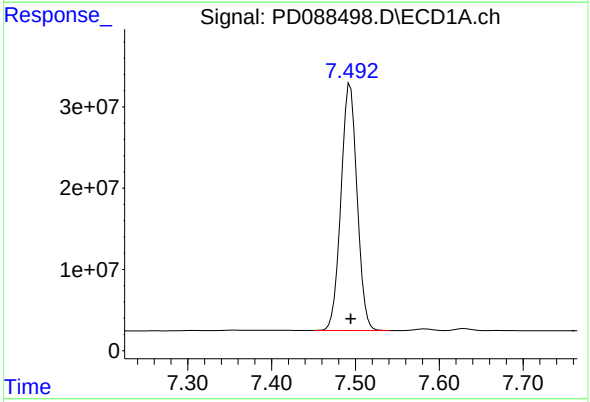
R.T.: 0.000 min
Exp R.T. : 7.150 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
PEM



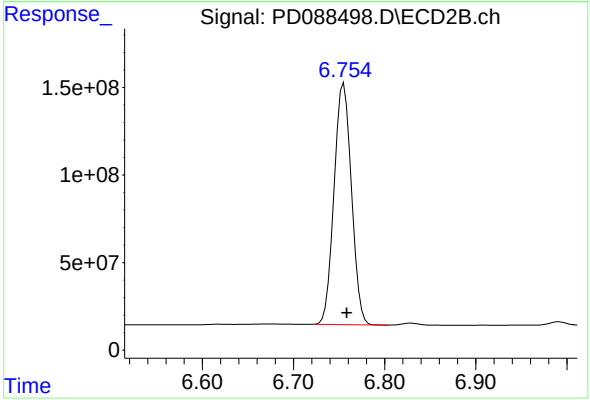
#19 Endosulfan Sulfate

R.T.: 6.461 min
Delta R.T.: -0.025 min
Response: 751258
Conc: 0.04 ng/ml



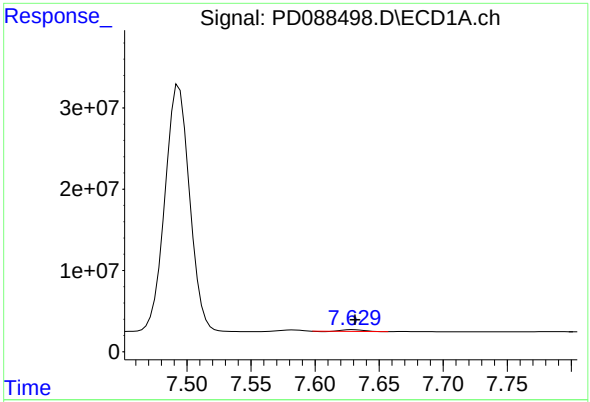
#20 Methoxychlor

R.T.: 7.494 min
Delta R.T.: 0.000 min
Response: 406324878
Conc: 270.97 ng/ml



#20 Methoxychlor

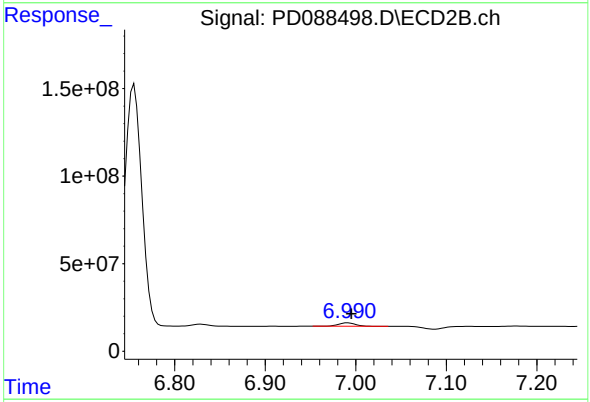
R.T.: 6.755 min
Delta R.T.: -0.003 min
Response: 1826192895
Conc: 200.22 ng/ml



#21 Endrin ketone

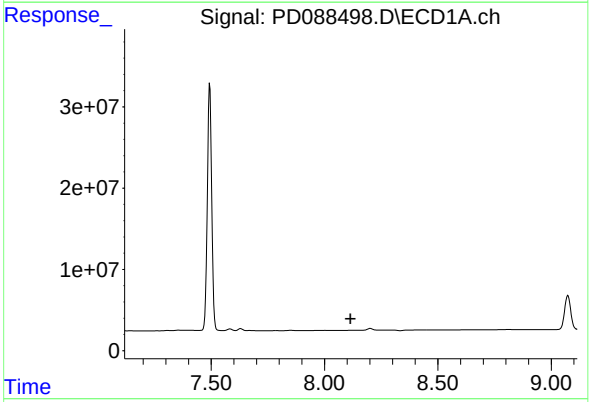
R.T.: 7.630 min
Delta R.T.: -0.001 min
Response: 2339247
Conc: 0.76 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



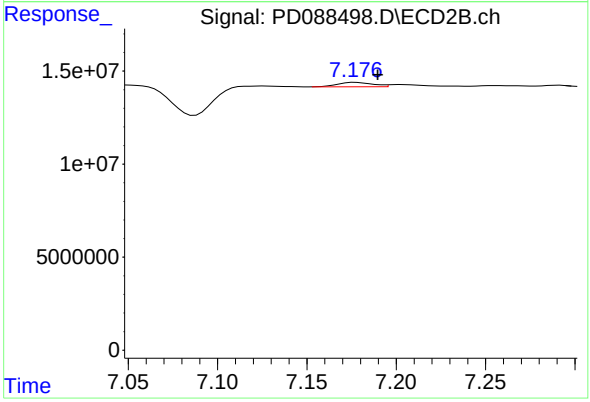
#21 Endrin ketone

R.T.: 6.992 min
Delta R.T.: -0.004 min
Response: 24535458
Conc: 1.31 ng/ml



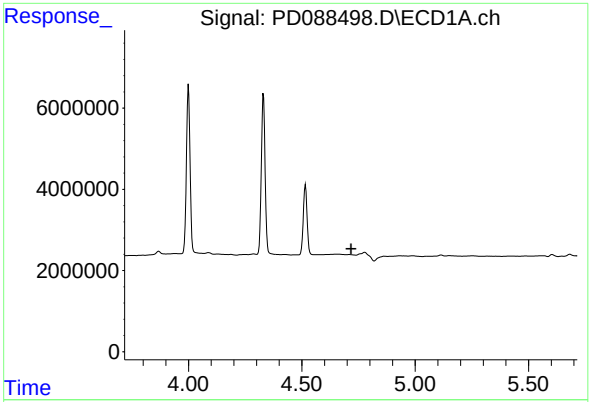
#22 Mirex

R.T.: 0.000 min
Exp R.T. : 8.115 min
Response: 0
Conc: N.D.



#22 Mirex

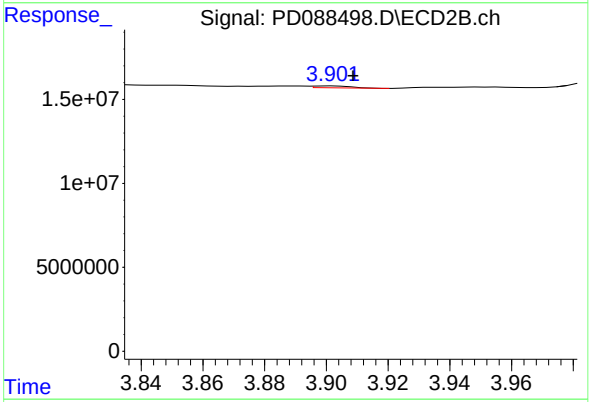
R.T.: 7.177 min
Delta R.T.: -0.012 min
Response: 3233711
Conc: 0.22 ng/ml



#23 Chlordane-1

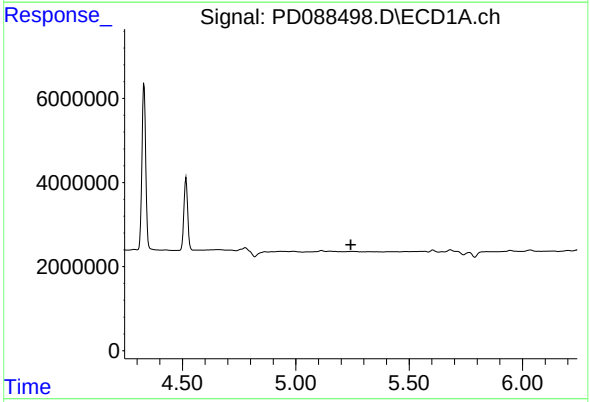
R.T.: 0.000 min
Exp R.T. : 4.717 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
PEM



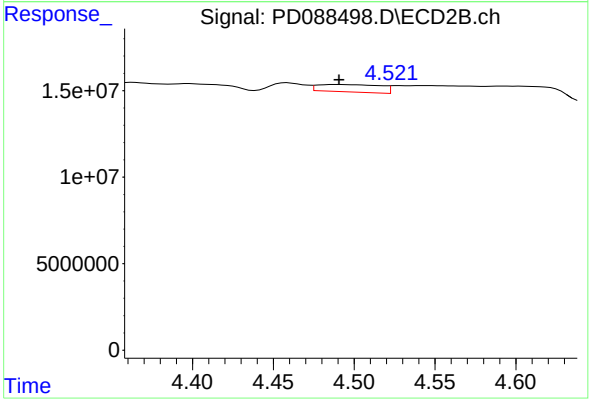
#23 Chlordane-1

R.T.: 3.902 min
Delta R.T.: -0.007 min
Response: 932182
Conc: 1.16 ng/ml



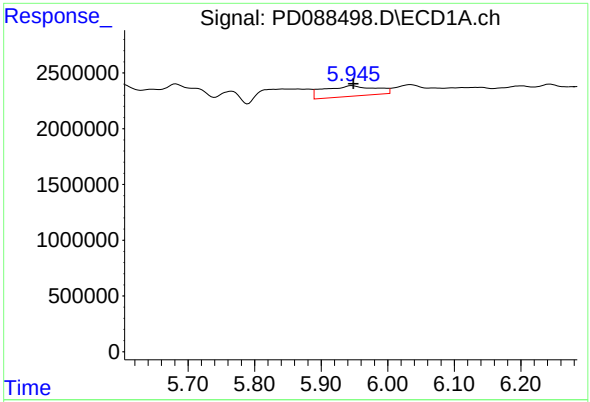
#24 Chlordane-2

R.T.: 0.000 min
Exp R.T. : 5.243 min
Response: 0
Conc: N.D.



#24 Chlordane-2

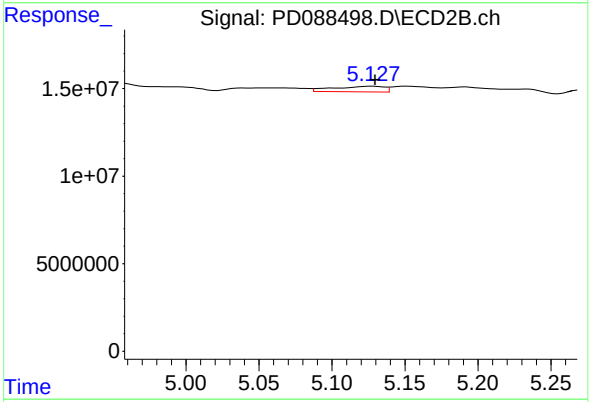
R.T.: 4.489 min
Delta R.T.: -0.001 min
Response: 11533827
Conc: 13.98 ng/ml



#25 Chlordane-3

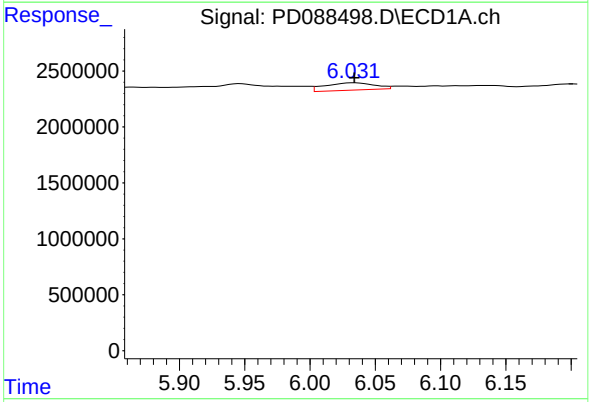
R.T.: 5.946 min
Delta R.T.: -0.002 min
Response: 5047104
Conc: 7.48 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



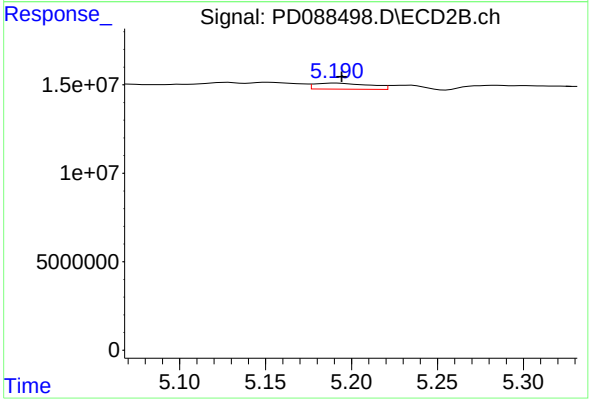
#25 Chlordane-3

R.T.: 5.128 min
Delta R.T.: -0.002 min
Response: 7764624
Conc: 3.07 ng/ml



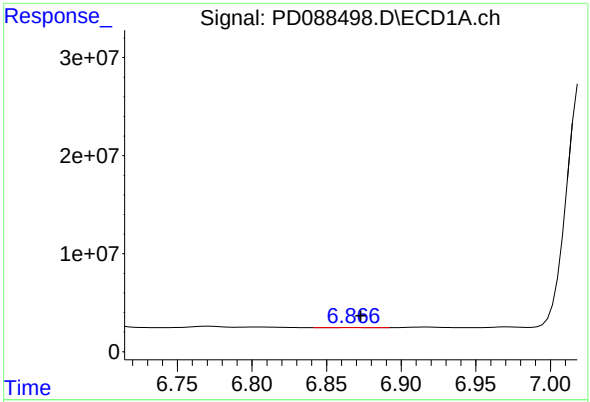
#26 Chlordane-4

R.T.: 6.034 min
Delta R.T.: 0.000 min
Response: 1705189
Conc: 2.09 ng/ml



#26 Chlordane-4

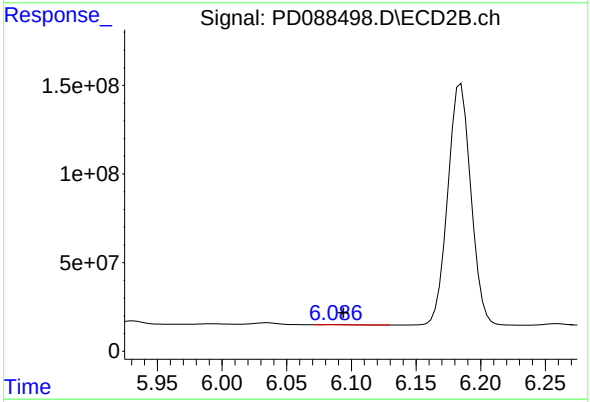
R.T.: 5.191 min
Delta R.T.: -0.003 min
Response: 7585547
Conc: 3.55 ng/ml



#27 Chlordane-5

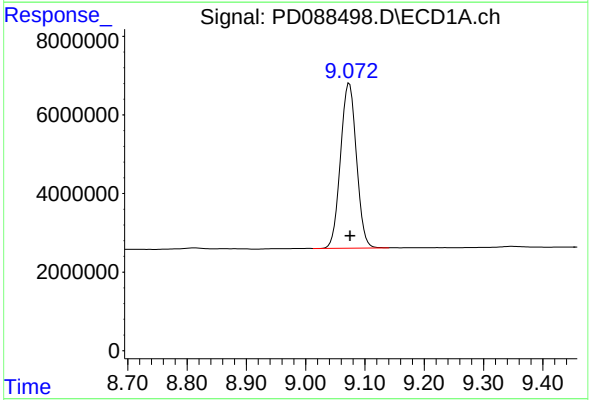
R.T.: 6.867 min
Delta R.T.: -0.005 min
Response: 239580
Conc: 1.76 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



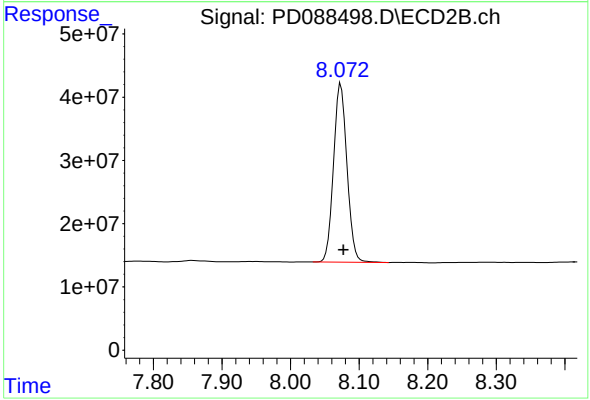
#27 Chlordane-5

R.T.: 6.087 min
Delta R.T.: -0.007 min
Response: 1821391
Conc: 1.89 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.074 min
Delta R.T.: -0.001 min
Response: 78502399
Conc: 23.73 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.073 min
Delta R.T.: -0.004 min
Response: 385252038
Conc: 20.85 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051325\
Data File : PD088524.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2025 16:48
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : ECD_D
ClientSampleId : PSTDCCC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 22:44:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	System Monitoring Compounds							
1)	SA Tetrachlo...	3.552	2.882	107.1E6	714.4E6	53.638	48.859	
28)	SA Decachlor...	9.074	8.074	163.5E6	813.0E6	49.429	43.995	
	Target Compounds							
2)	A alpha-BHC	4.001	3.395	243.7E6	1140.0E6	56.519	49.864	
3)	MA gamma-BHC...	4.332	3.731	233.3E6	1058.4E6	55.702	49.140	
4)	MA Heptachlor	4.931	4.085	229.3E6	1050.2E6	56.765	49.079	
5)	MB Aldrin	5.273	4.371	224.0E6	1084.4E6	56.719	52.129	
6)	B beta-BHC	4.517	4.027	89438678	454.1E6	55.094	49.071	
7)	B delta-BHC	4.765	4.264	230.9E6	1063.8E6	55.967	50.033	
8)	B Heptachlo...	5.692	4.874	201.8E6	929.2E6	56.458	49.181	
9)	A Endosulfan I	6.076	5.248	192.0E6	764.4E6	56.860	42.440	#
10)	B gamma-Chl...	5.947	5.128	216.7E6	996.0E6	59.839	49.074	
11)	B alpha-Chl...	6.028	5.192	208.7E6	956.7E6	57.811	48.803	
12)	B 4,4'-DDE	6.197	5.377	177.6E6	1030.2E6	53.838	52.313	
13)	MA Dieldrin	6.348	5.515	200.9E6	978.5E6	56.304	49.088	
14)	MA Endrin	6.576	5.792	163.2E6	890.9E6	54.734	48.942	
15)	B Endosulfa...	6.787	6.082	169.3E6	856.5E6	54.148	48.880	
16)	A 4,4'-DDD	6.706	5.932	142.9E6	810.0E6	56.824	49.430	
17)	MA 4,4'-DDT	7.022	6.186	149.0E6	826.4E6	53.657	48.562	
18)	B Endrin al...	6.916	6.261	122.1E6	624.3E6	52.893	46.939	
19)	B Endosulfa...	7.150	6.484	155.9E6	815.2E6	54.215	47.583	
20)	A Methoxychlor	7.494	6.757	78569308	429.0E6	52.395	47.037	
21)	B Endrin ke...	7.631	6.993	166.8E6	881.3E6	54.053	47.119	
22)	Mirex	8.115	7.188	123.0E6	683.4E6	52.377	46.114	
23)	Chlordane-1	0.000	3.896	0	920576	N.D.	1.148	#
24)	Chlordane-2	5.273f	4.508	224.0E6	117.7E6	1345.220	142.625	#
25)	Chlordane-3	5.947	5.128	216.7E6	996.0E6	321.322	393.826	
26)	Chlordane-4	6.028	5.192	208.7E6	956.7E6	255.937	447.433	#
27)	Chlordane-5	0.000	6.082	0	856.5E6	N.D.	887.042	#

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

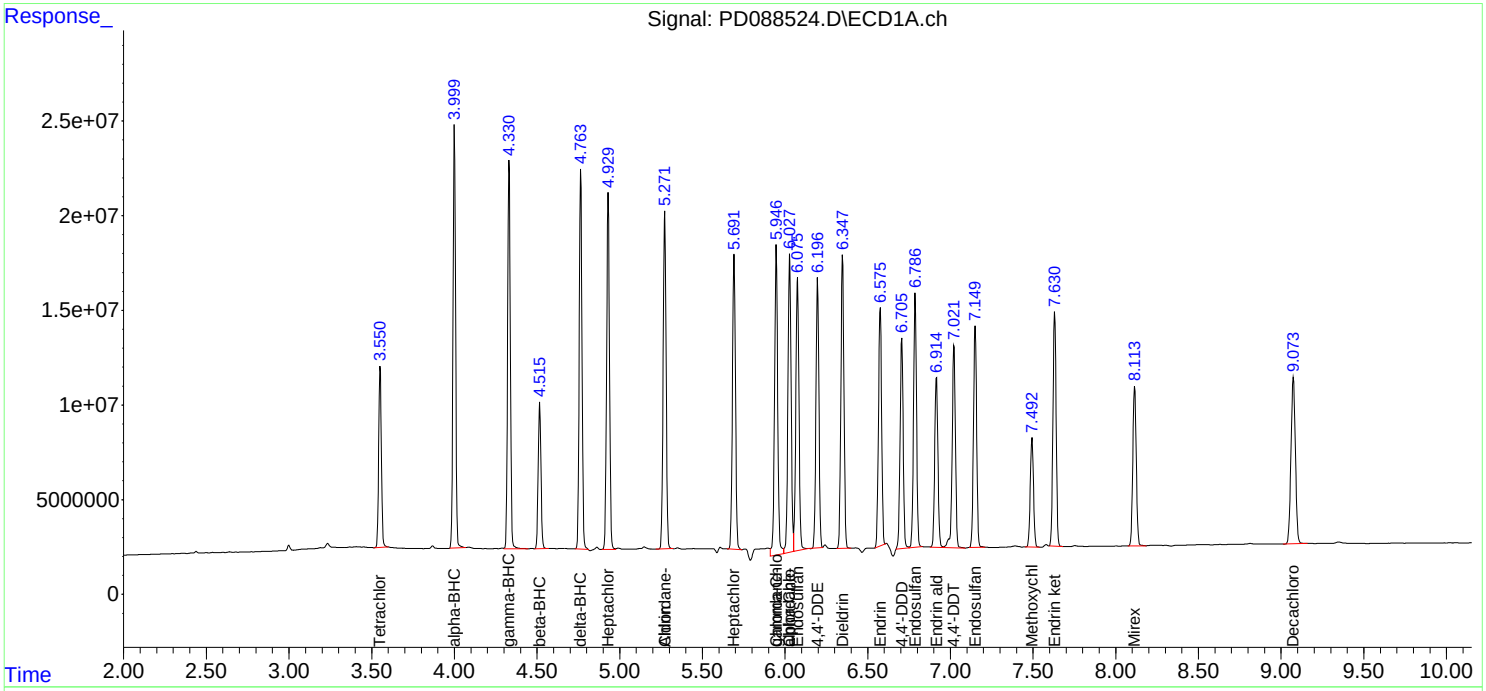
Quantitation Report (Not Reviewed)

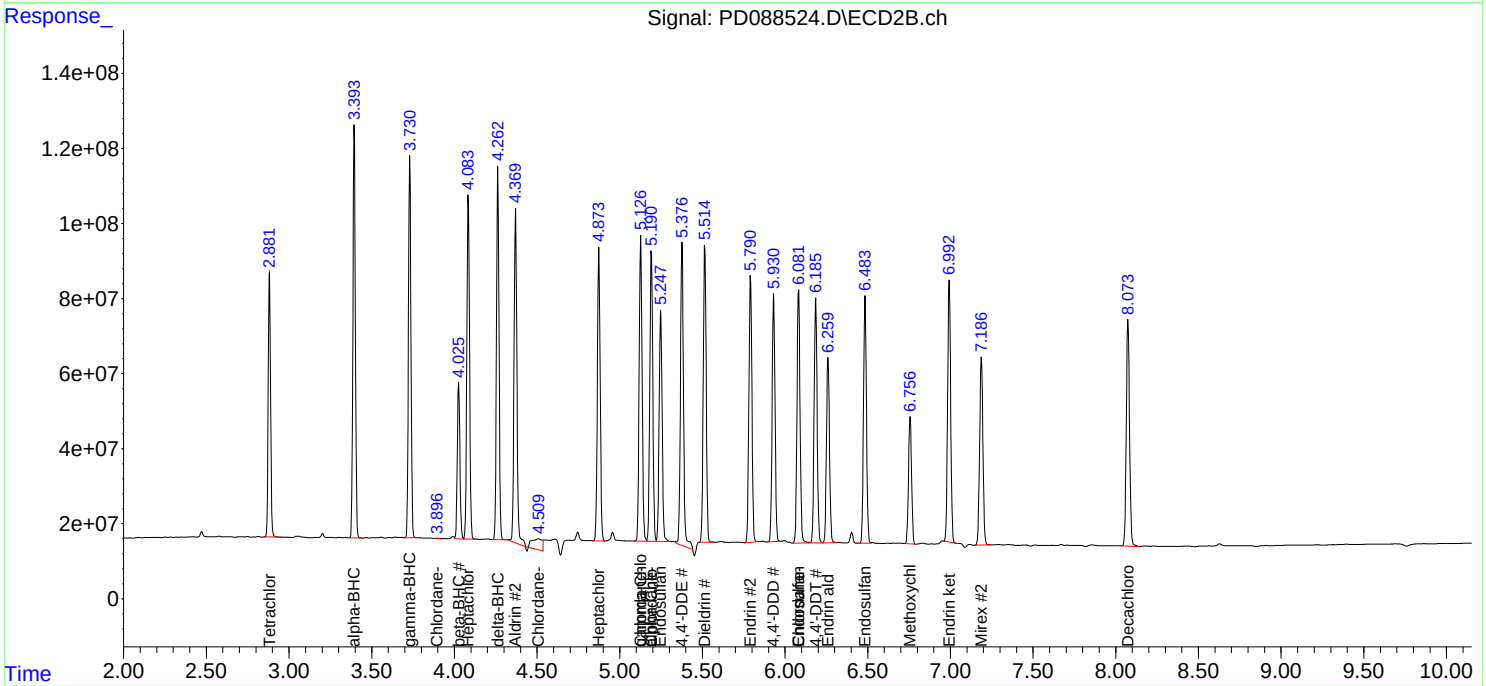
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051325\
Data File : PD088524.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2025 16:48
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

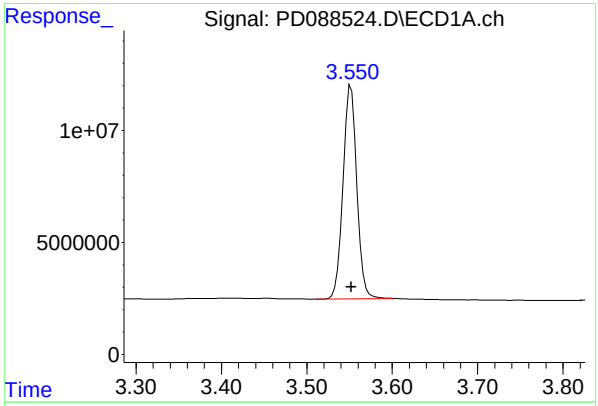
Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 22:44:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



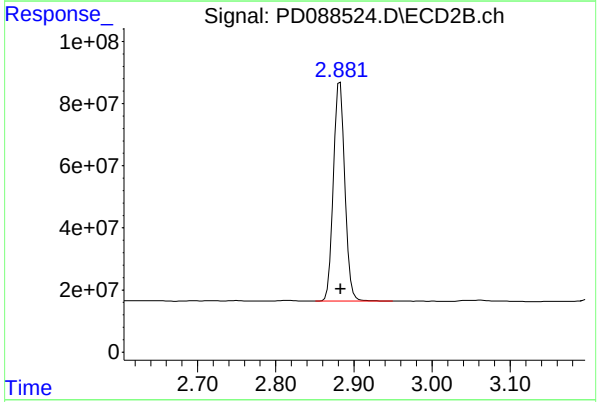




#1 Tetrachloro-m-xylene

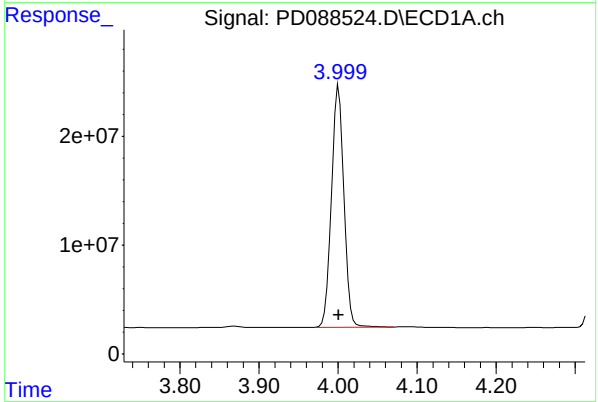
R.T.: 3.552 min
Delta R.T.: 0.000 min
Response: 107136438
Conc: 53.64 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



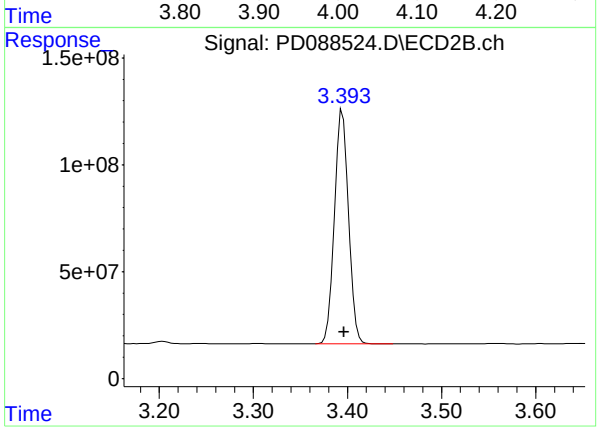
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 714405025
Conc: 48.86 ng/ml



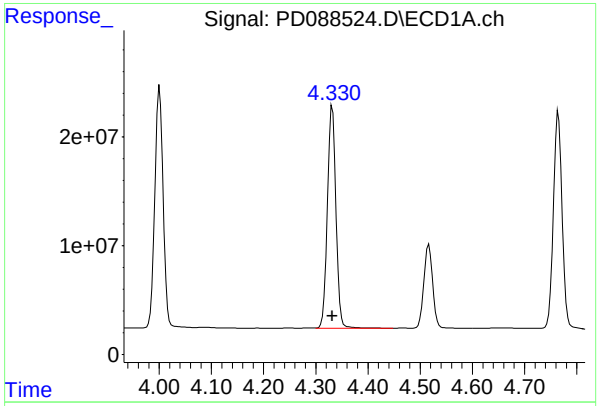
#2 alpha-BHC

R.T.: 4.001 min
Delta R.T.: 0.000 min
Response: 243708905
Conc: 56.52 ng/ml



#2 alpha-BHC

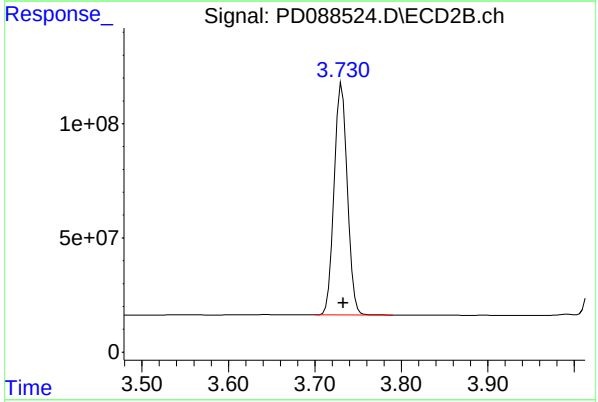
R.T.: 3.395 min
Delta R.T.: -0.001 min
Response: 1139962171
Conc: 49.86 ng/ml



#3 gamma-BHC (Lindane)

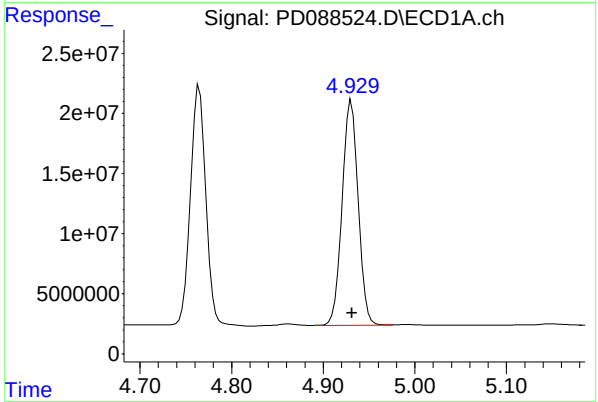
R.T.: 4.332 min
Delta R.T.: 0.000 min
Response: 233252384
Conc: 55.70 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



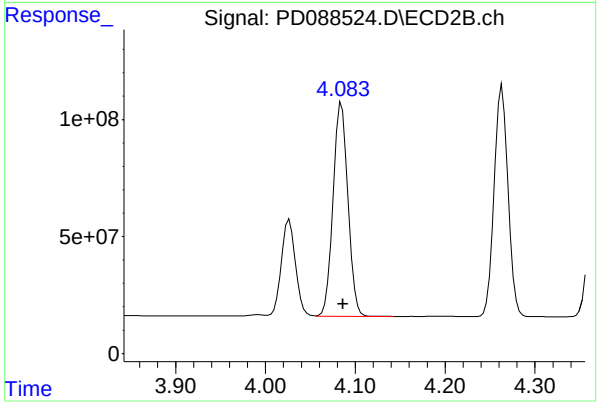
#3 gamma-BHC (Lindane)

R.T.: 3.731 min
Delta R.T.: -0.002 min
Response: 1058400654
Conc: 49.14 ng/ml



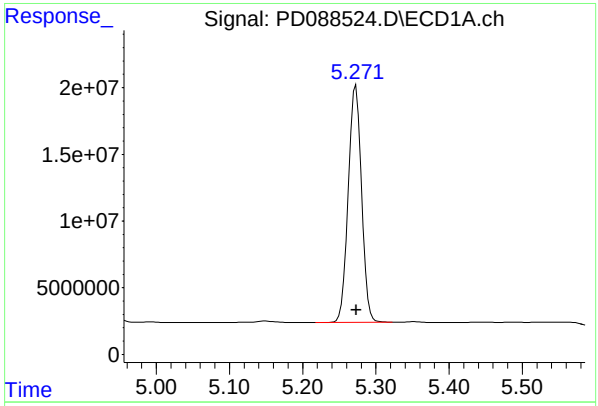
#4 Heptachlor

R.T.: 4.931 min
Delta R.T.: 0.000 min
Response: 229272463
Conc: 56.77 ng/ml



#4 Heptachlor

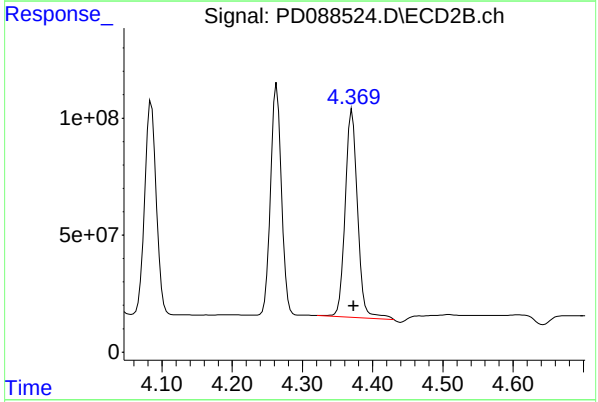
R.T.: 4.085 min
Delta R.T.: -0.002 min
Response: 1050209800
Conc: 49.08 ng/ml



#5 Aldrin

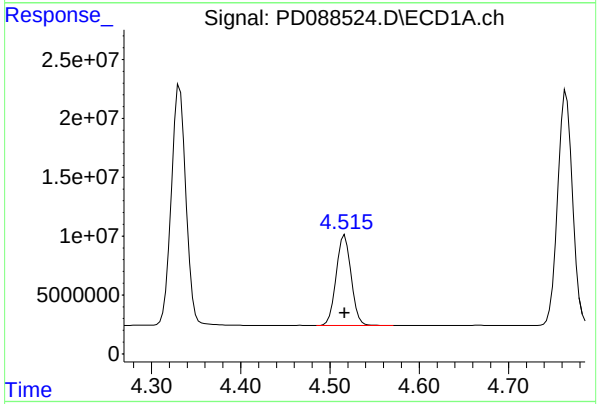
R.T.: 5.273 min
Delta R.T.: 0.000 min
Response: 224017777
Conc: 56.72 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



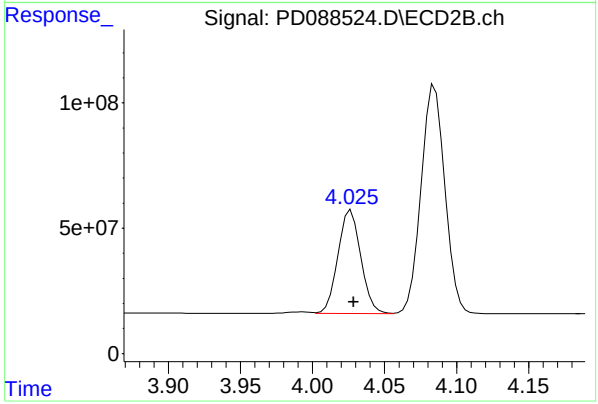
#5 Aldrin

R.T.: 4.371 min
Delta R.T.: -0.002 min
Response: 1084426880
Conc: 52.13 ng/ml



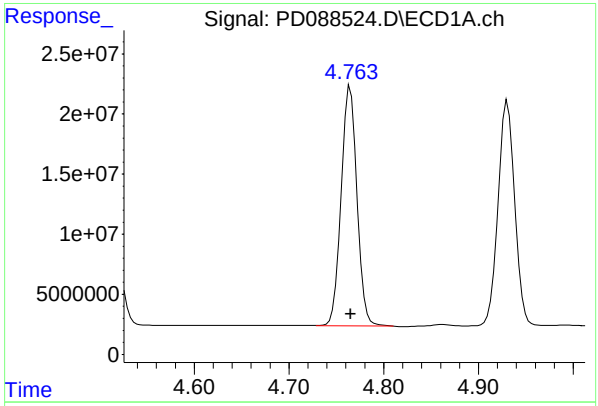
#6 beta-BHC

R.T.: 4.517 min
Delta R.T.: 0.000 min
Response: 89438678
Conc: 55.09 ng/ml



#6 beta-BHC

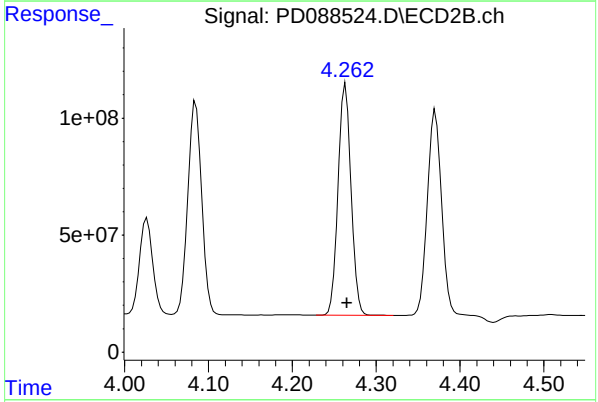
R.T.: 4.027 min
Delta R.T.: -0.002 min
Response: 454107972
Conc: 49.07 ng/ml



#7 delta-BHC

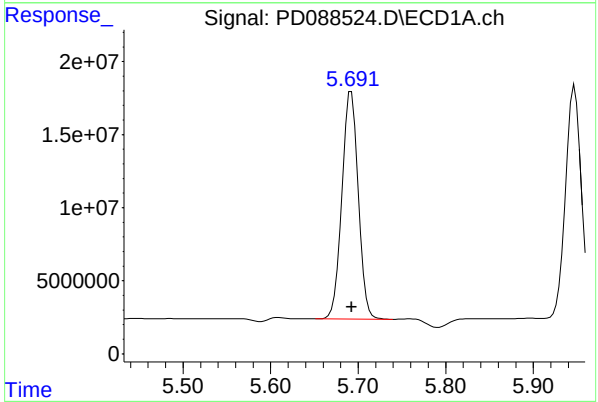
R.T.: 4.765 min
Delta R.T.: 0.000 min
Response: 230862398
Conc: 55.97 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



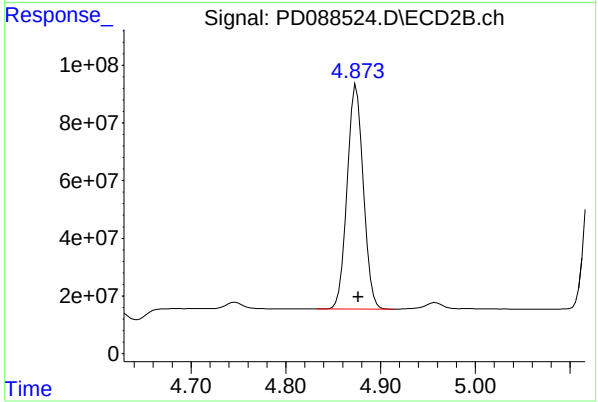
#7 delta-BHC

R.T.: 4.264 min
Delta R.T.: -0.002 min
Response: 1063788564
Conc: 50.03 ng/ml



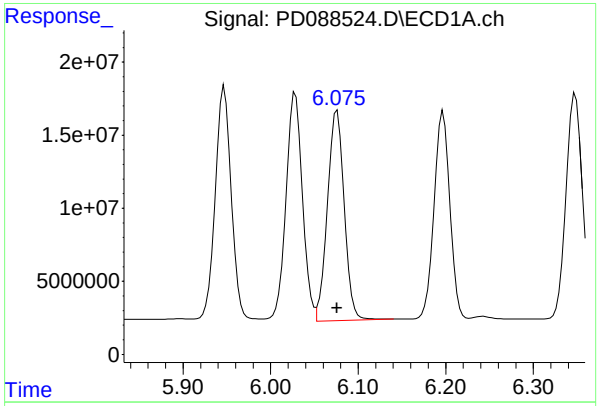
#8 Heptachlor epoxide

R.T.: 5.692 min
Delta R.T.: 0.000 min
Response: 201778154
Conc: 56.46 ng/ml



#8 Heptachlor epoxide

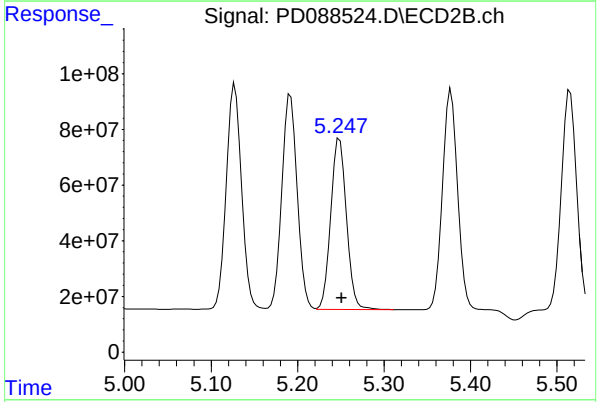
R.T.: 4.874 min
Delta R.T.: -0.002 min
Response: 929245337
Conc: 49.18 ng/ml



#9 Endosulfan I

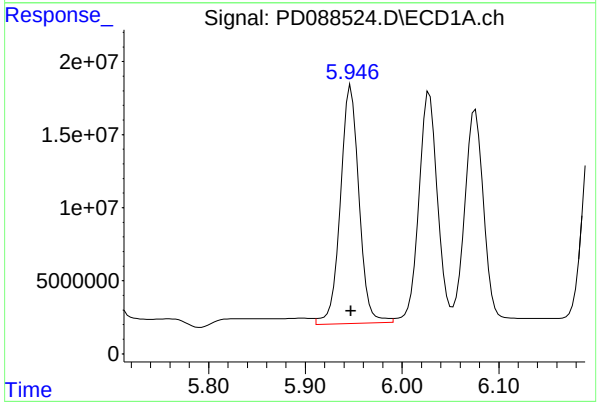
R.T.: 6.076 min
Delta R.T.: 0.000 min
Response: 192023160
Conc: 56.86 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



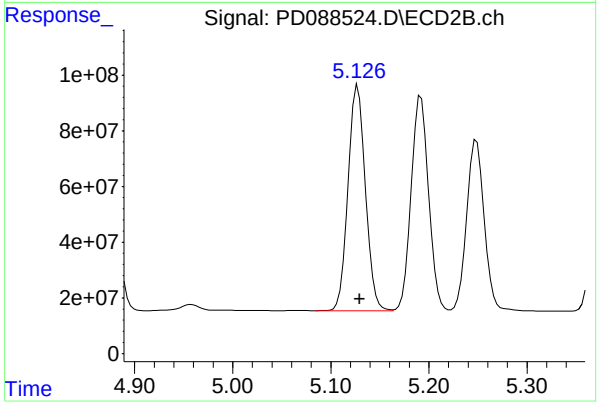
#9 Endosulfan I

R.T.: 5.248 min
Delta R.T.: -0.003 min
Response: 764441776
Conc: 42.44 ng/ml



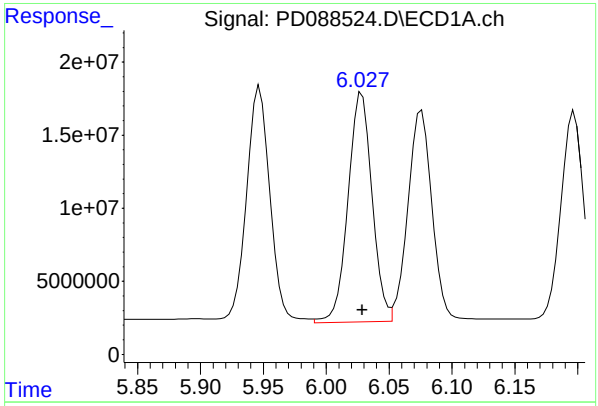
#10 gamma-Chlordane

R.T.: 5.947 min
Delta R.T.: 0.000 min
Response: 216741500
Conc: 59.84 ng/ml



#10 gamma-Chlordane

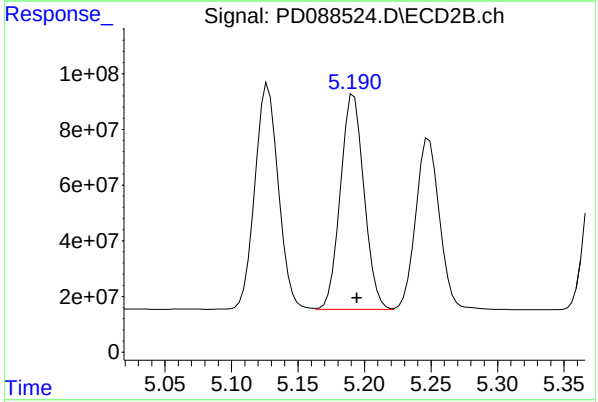
R.T.: 5.128 min
Delta R.T.: -0.002 min
Response: 996003252
Conc: 49.07 ng/ml



#11 alpha-Chlordane

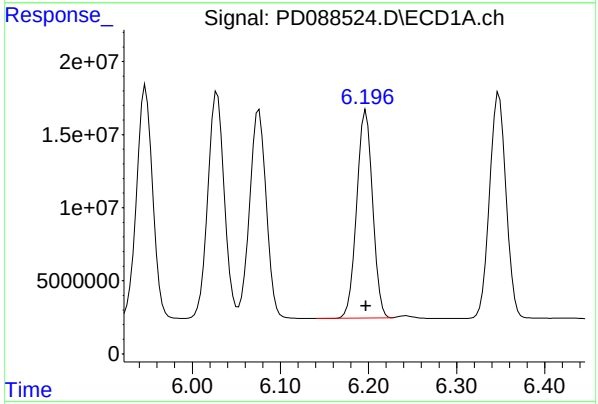
R.T.: 6.028 min
Delta R.T.: 0.000 min
Response: 208671838
Conc: 57.81 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



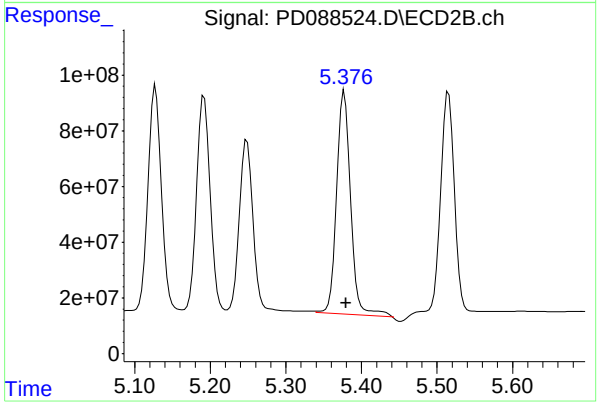
#11 alpha-Chlordane

R.T.: 5.192 min
Delta R.T.: -0.002 min
Response: 956679979
Conc: 48.80 ng/ml



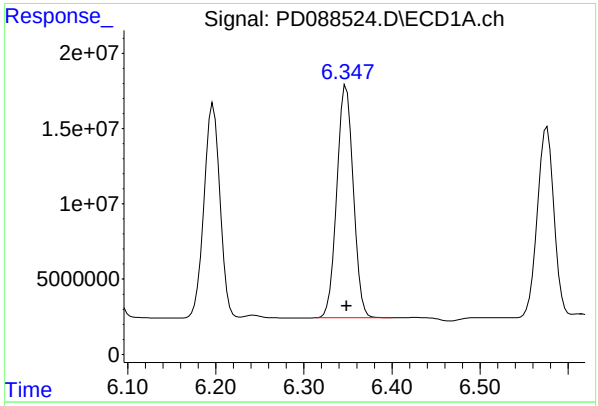
#12 4,4'-DDE

R.T.: 6.197 min
Delta R.T.: 0.000 min
Response: 177570817
Conc: 53.84 ng/ml



#12 4,4'-DDE

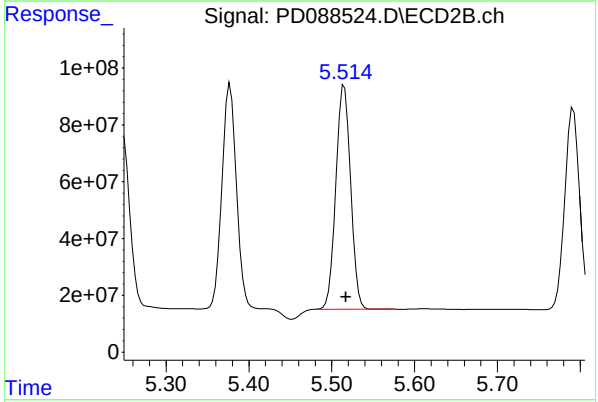
R.T.: 5.377 min
Delta R.T.: -0.002 min
Response: 1030241334
Conc: 52.31 ng/ml



#13 Dieldrin

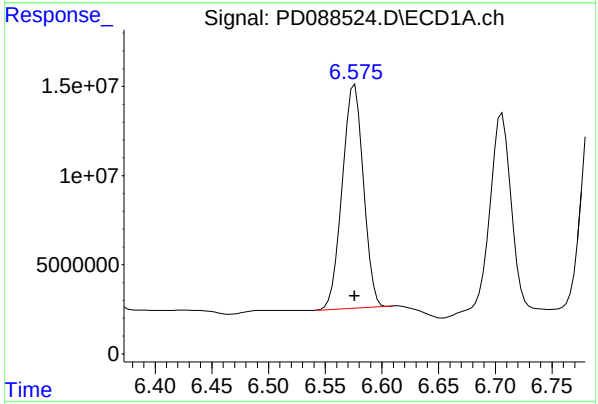
R.T.: 6.348 min
Delta R.T.: 0.000 min
Response: 200920361
Conc: 56.30 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



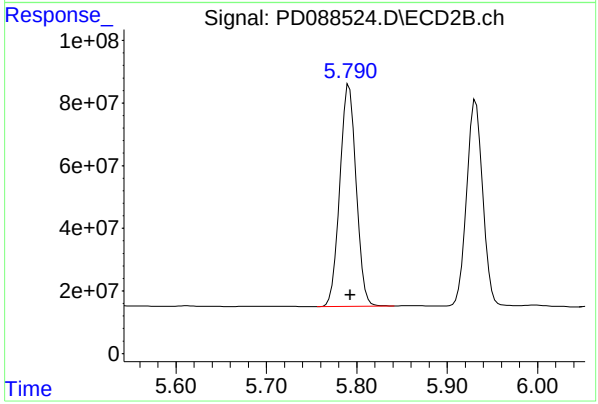
#13 Dieldrin

R.T.: 5.515 min
Delta R.T.: -0.002 min
Response: 978468096
Conc: 49.09 ng/ml



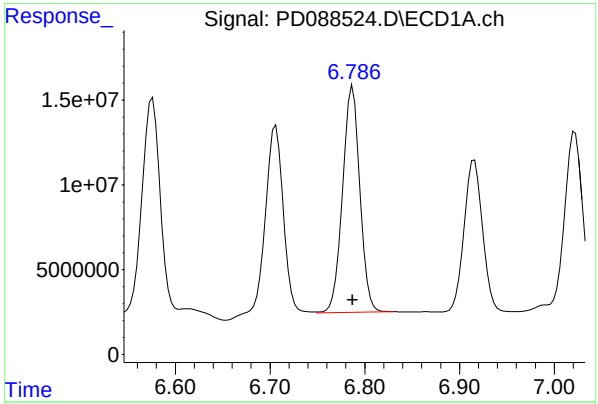
#14 Endrin

R.T.: 6.576 min
Delta R.T.: 0.000 min
Response: 163249144
Conc: 54.73 ng/ml



#14 Endrin

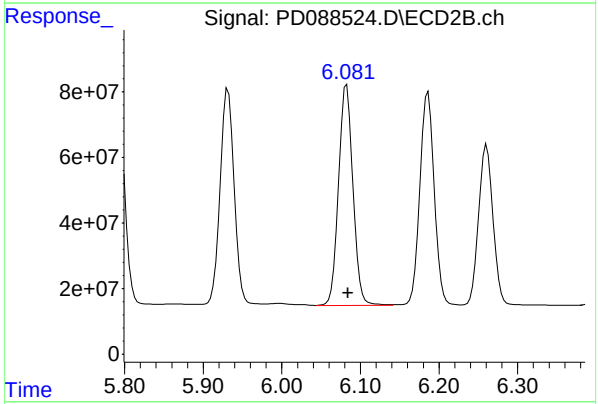
R.T.: 5.792 min
Delta R.T.: -0.001 min
Response: 890864694
Conc: 48.94 ng/ml



#15 Endosulfan II

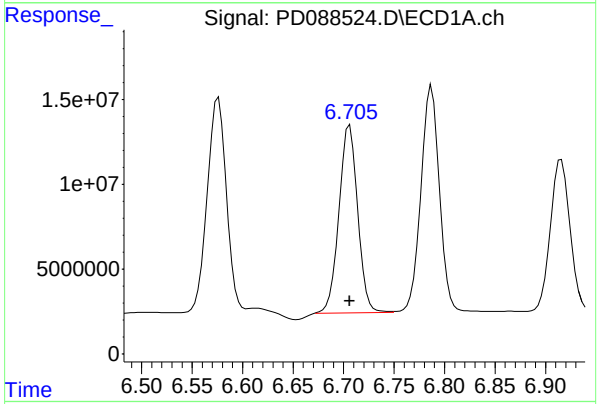
R.T.: 6.787 min
Delta R.T.: 0.000 min
Response: 169277979
Conc: 54.15 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



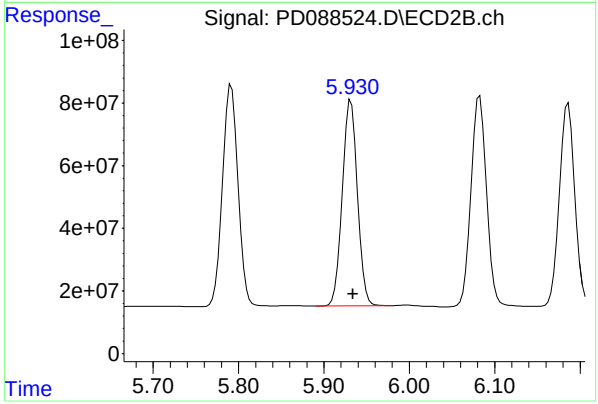
#15 Endosulfan II

R.T.: 6.082 min
Delta R.T.: -0.002 min
Response: 856460839
Conc: 48.88 ng/ml



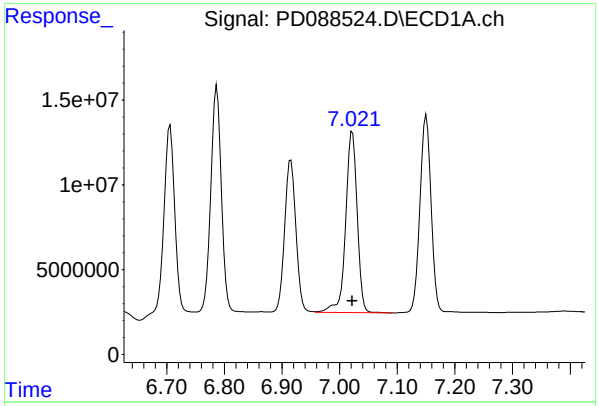
#16 4,4'-DDD

R.T.: 6.706 min
Delta R.T.: 0.000 min
Response: 142910959
Conc: 56.82 ng/ml



#16 4,4'-DDD

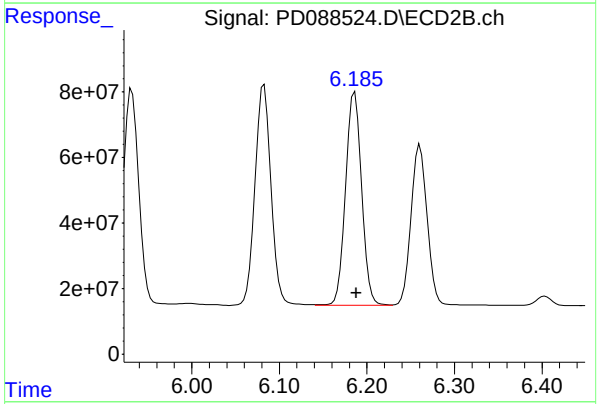
R.T.: 5.932 min
Delta R.T.: -0.002 min
Response: 809963025
Conc: 49.43 ng/ml



#17 4,4'-DDT

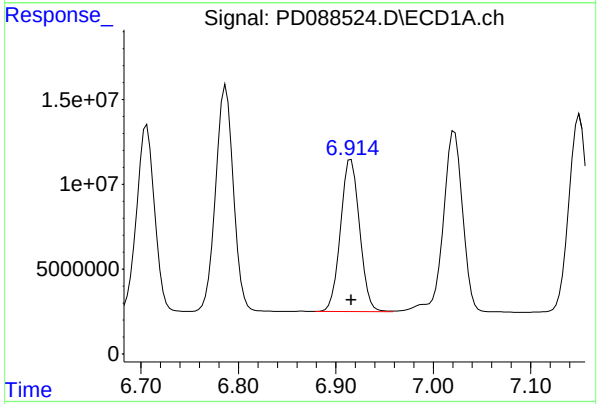
R.T.: 7.022 min
Delta R.T.: 0.000 min
Response: 149035691
Conc: 53.66 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



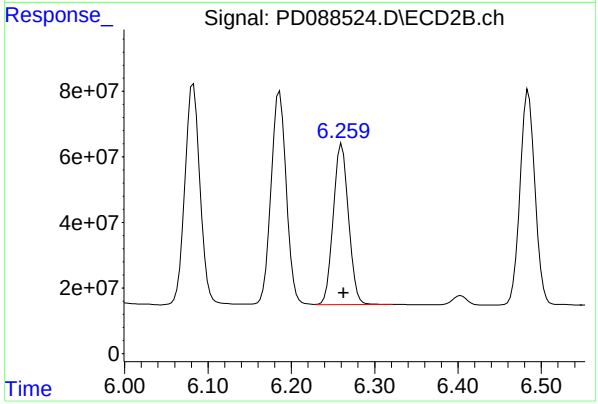
#17 4,4'-DDT

R.T.: 6.186 min
Delta R.T.: -0.002 min
Response: 826353259
Conc: 48.56 ng/ml



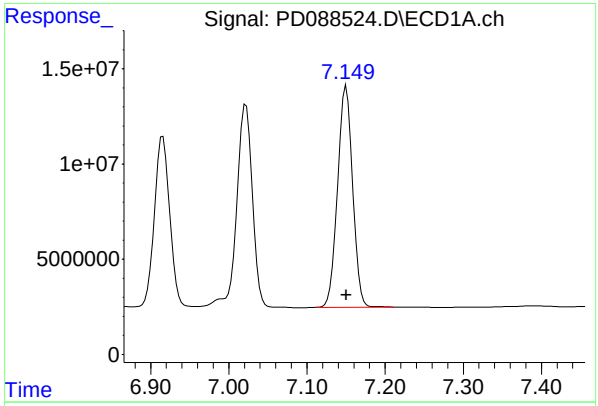
#18 Endrin aldehyde

R.T.: 6.916 min
Delta R.T.: 0.000 min
Response: 122076052
Conc: 52.89 ng/ml



#18 Endrin aldehyde

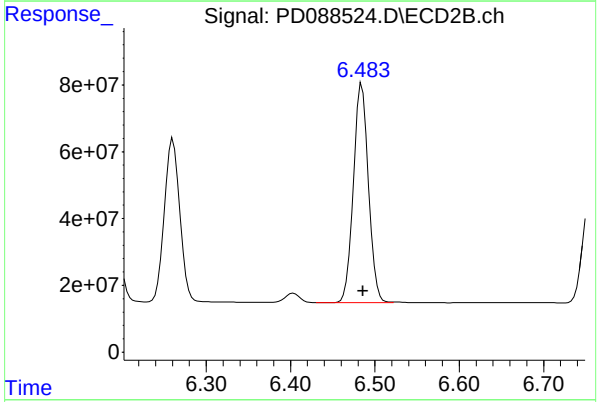
R.T.: 6.261 min
Delta R.T.: -0.002 min
Response: 624328129
Conc: 46.94 ng/ml



#19 Endosulfan Sulfate

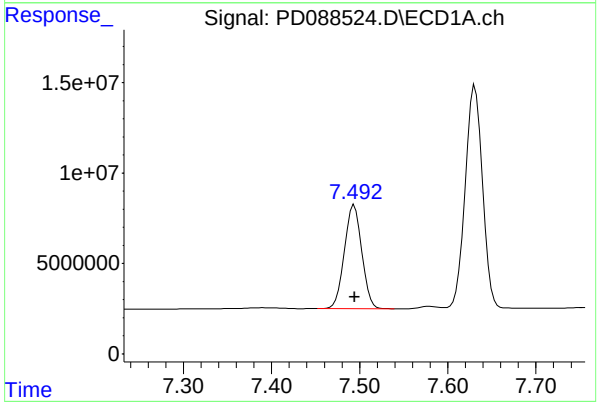
R.T.: 7.150 min
Delta R.T.: 0.000 min
Response: 155912336
Conc: 54.21 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



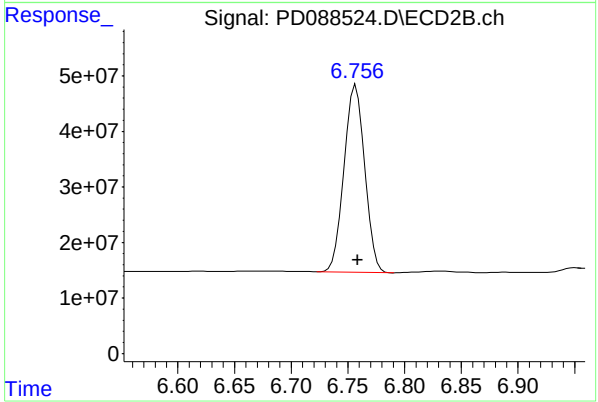
#19 Endosulfan Sulfate

R.T.: 6.484 min
Delta R.T.: -0.002 min
Response: 815247012
Conc: 47.58 ng/ml



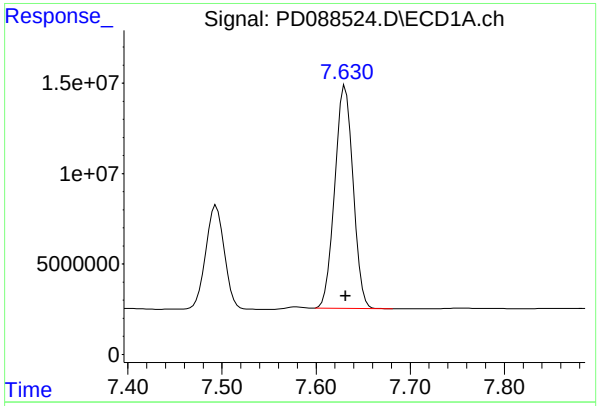
#20 Methoxychlor

R.T.: 7.494 min
Delta R.T.: 0.000 min
Response: 78569308
Conc: 52.40 ng/ml



#20 Methoxychlor

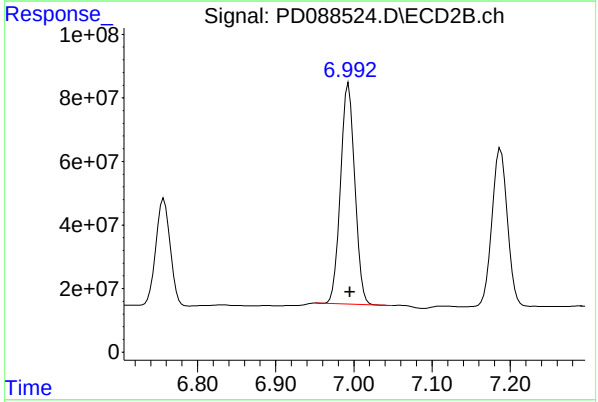
R.T.: 6.757 min
Delta R.T.: -0.002 min
Response: 429023289
Conc: 47.04 ng/ml



#21 Endrin ketone

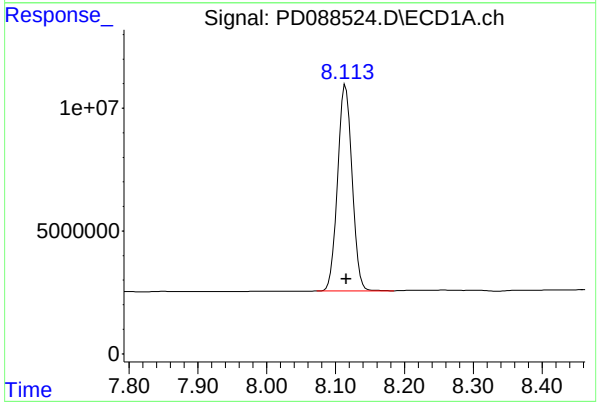
R.T.: 7.631 min
Delta R.T.: 0.000 min
Response: 166839825
Conc: 54.05 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



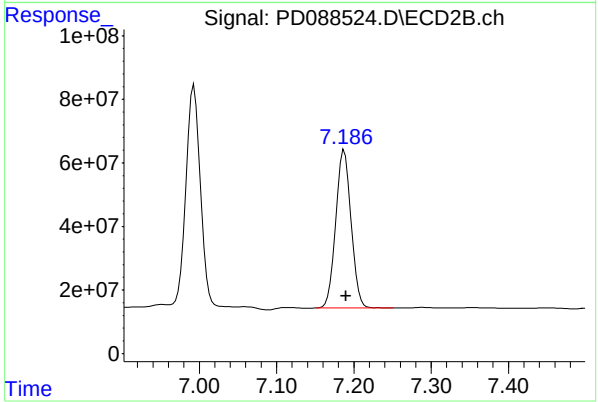
#21 Endrin ketone

R.T.: 6.993 min
Delta R.T.: -0.002 min
Response: 881316314
Conc: 47.12 ng/ml



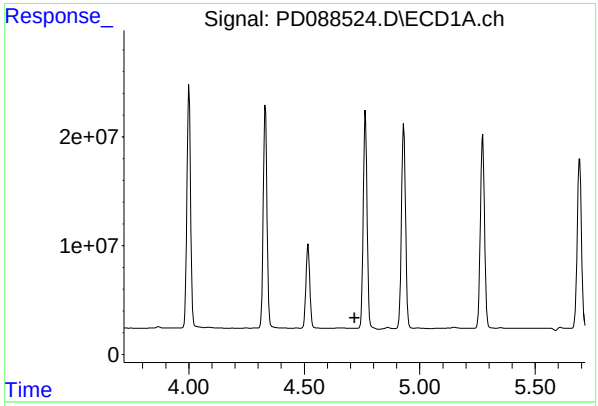
#22 Mirex

R.T.: 8.115 min
Delta R.T.: 0.000 min
Response: 122997574
Conc: 52.38 ng/ml



#22 Mirex

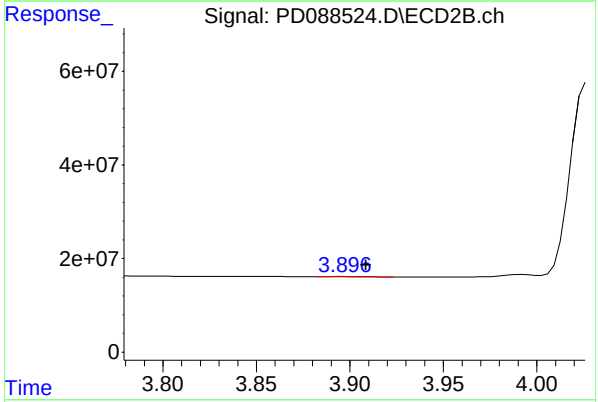
R.T.: 7.188 min
Delta R.T.: -0.002 min
Response: 683447555
Conc: 46.11 ng/ml



#23 Chlordane-1

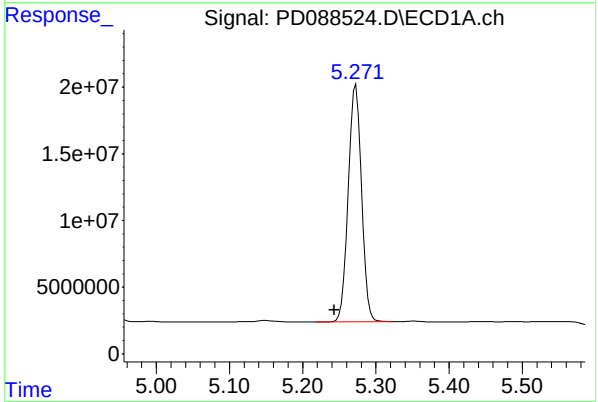
R.T.: 0.000 min
Exp R.T. : 4.717 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



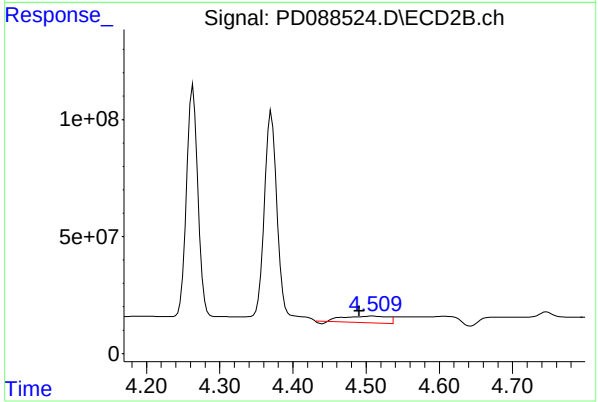
#23 Chlordane-1

R.T.: 3.896 min
Delta R.T.: -0.013 min
Response: 920576
Conc: 1.15 ng/ml



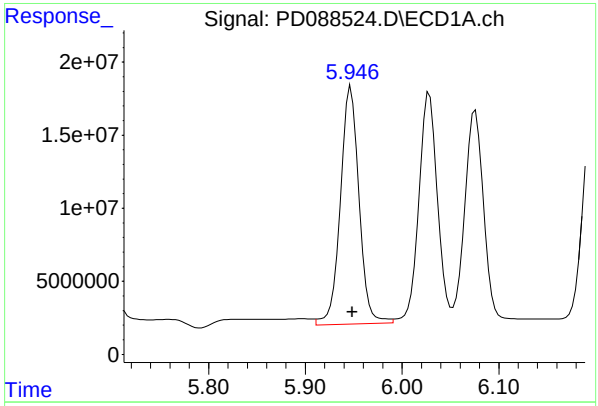
#24 Chlordane-2

R.T.: 5.273 min
Delta R.T.: 0.030 min
Response: 224017777
Conc: 1345.22 ng/ml



#24 Chlordane-2

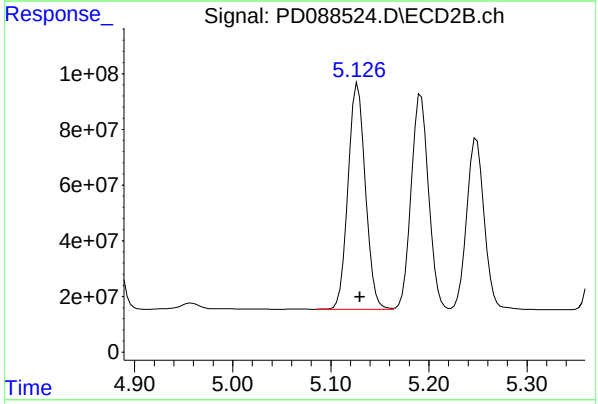
R.T.: 4.508 min
Delta R.T.: 0.018 min
Response: 117708905
Conc: 142.62 ng/ml



#25 Chlordane-3

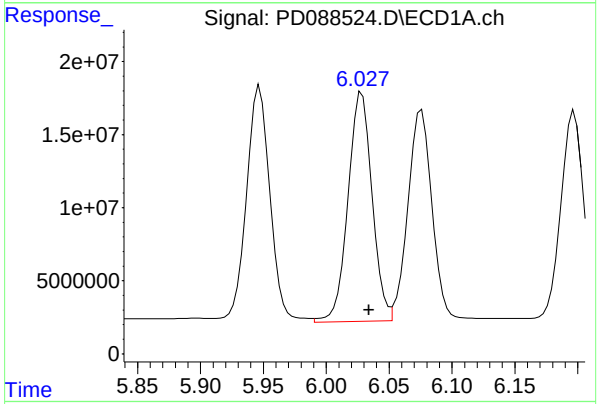
R.T.: 5.947 min
Delta R.T.: -0.001 min
Response: 216741500
Conc: 321.32 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



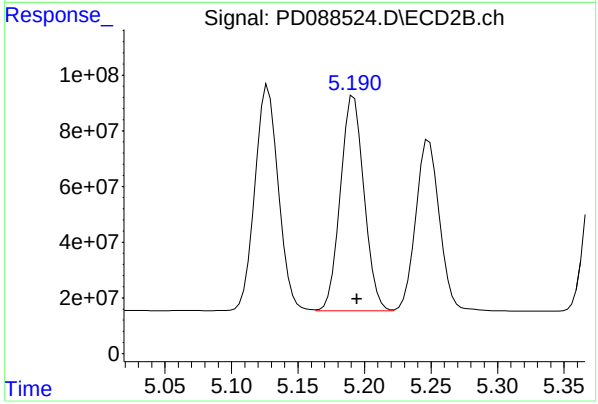
#25 Chlordane-3

R.T.: 5.128 min
Delta R.T.: -0.002 min
Response: 996003252
Conc: 393.83 ng/ml



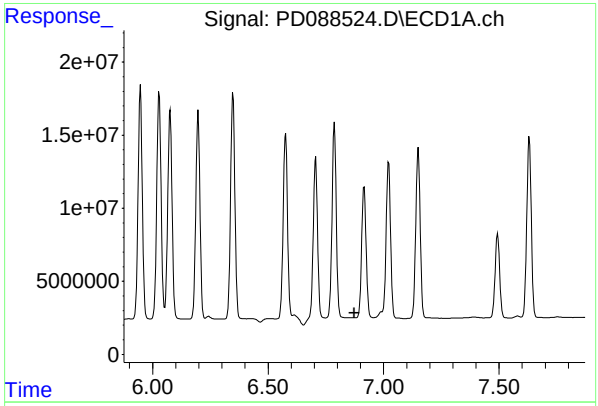
#26 Chlordane-4

R.T.: 6.028 min
Delta R.T.: -0.006 min
Response: 208671838
Conc: 255.94 ng/ml



#26 Chlordane-4

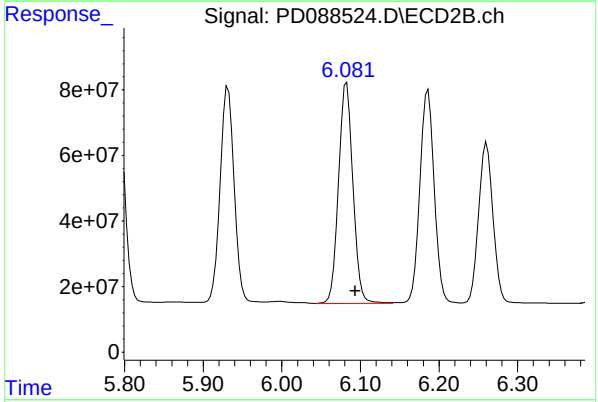
R.T.: 5.192 min
Delta R.T.: -0.002 min
Response: 956679979
Conc: 447.43 ng/ml



#27 Chlordane-5

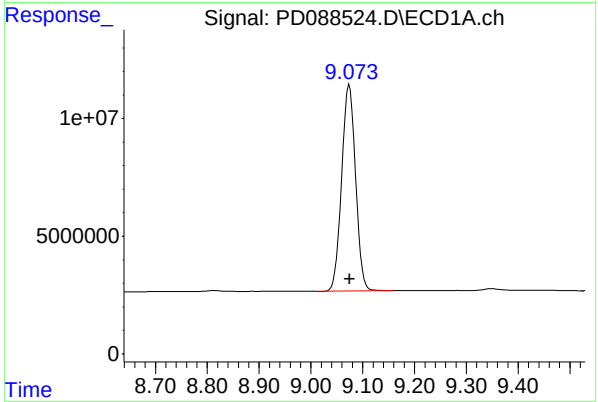
R.T.: 0.000 min
Exp R.T. : 6.873 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



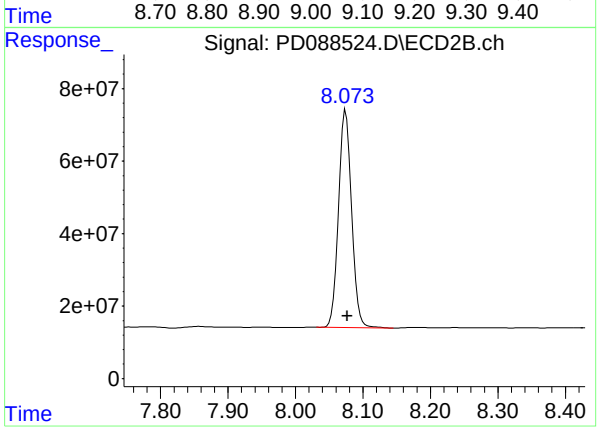
#27 Chlordane-5

R.T.: 6.082 min
Delta R.T.: -0.011 min
Response: 856460839
Conc: 887.04 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.074 min
Delta R.T.: 0.000 min
Response: 163517713
Conc: 49.43 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.074 min
Delta R.T.: -0.002 min
Response: 813008727
Conc: 43.99 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051325\
Data File : PD088537.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2025 19:46
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : ECD_D
ClientSampleId : PSTDCCC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 22:47:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	System Monitoring Compounds							
1)	SA Tetrachlo...	3.551	2.882	107.2E6	704.1E6	53.660	48.157	
28)	SA Decachlor...	9.072	8.074	160.5E6	756.8E6	48.527	40.952	
	Target Compounds							
2)	A alpha-BHC	4.001	3.395	243.1E6	1116.0E6	56.370	48.817	
3)	MA gamma-BHC...	4.331	3.731	232.2E6	1035.0E6	55.454	48.053	
4)	MA Heptachlor	4.931	4.085	226.9E6	1028.2E6	56.184	48.053	
5)	MB Aldrin	5.273	4.371	221.8E6	1057.7E6	56.152	50.842	
6)	B beta-BHC	4.516	4.027	88803675	441.6E6	54.703	47.720	
7)	B delta-BHC	4.765	4.263	230.1E6	1036.1E6	55.794	48.731	
8)	B Heptachlo...	5.691	4.874	196.6E6	904.3E6	55.003	47.861	
9)	A Endosulfan I	6.075	5.248	189.7E6	737.0E6	56.164	40.915	#
10)	B gamma-Chl...	5.947	5.128	213.5E6	968.0E6	58.943	47.695	
11)	B alpha-Chl...	6.028	5.192	206.0E6	928.2E6	57.061	47.350	
12)	B 4,4'-DDE	6.196	5.377	173.7E6	995.9E6	52.660	50.571	
13)	MA Dieldrin	6.348	5.515	197.5E6	947.1E6	55.339	47.513	
14)	MA Endrin	6.575	5.791	160.0E6	868.4E6	53.636	47.711	
15)	B Endosulfa...	6.786	6.082	166.2E6	826.1E6	53.178	47.148	
16)	A 4,4'-DDD	6.705	5.932	140.3E6	779.6E6	55.768	47.578	
17)	MA 4,4'-DDT	7.021	6.186	145.3E6	797.3E6	52.314	46.854	
18)	B Endrin al...	6.915	6.260	120.4E6	603.3E6	52.184	45.361	
19)	B Endosulfa...	7.150	6.484	153.0E6	785.2E6	53.208	45.829	
20)	A Methoxychlor	7.493	6.756	75967499	414.2E6	50.660	45.407	
21)	B Endrin ke...	7.630	6.993	163.2E6	849.4E6	52.883	45.415	
22)	Mirex	8.114	7.187	121.0E6	644.5E6	51.516	43.486	
23)	Chlordane-1	0.000	3.897	0	760051	N.D.	0.948	#
24)	Chlordane-2	5.273f	4.508	221.8E6	124.4E6	1331.770	150.768	#
25)	Chlordane-3	5.947	5.128	213.5E6	968.0E6	316.507	382.760	
26)	Chlordane-4	6.028	5.192	206.0E6	928.2E6	252.619	434.112	#
27)	Chlordane-5	0.000	6.082	0	826.1E6	N.D.	855.612	#

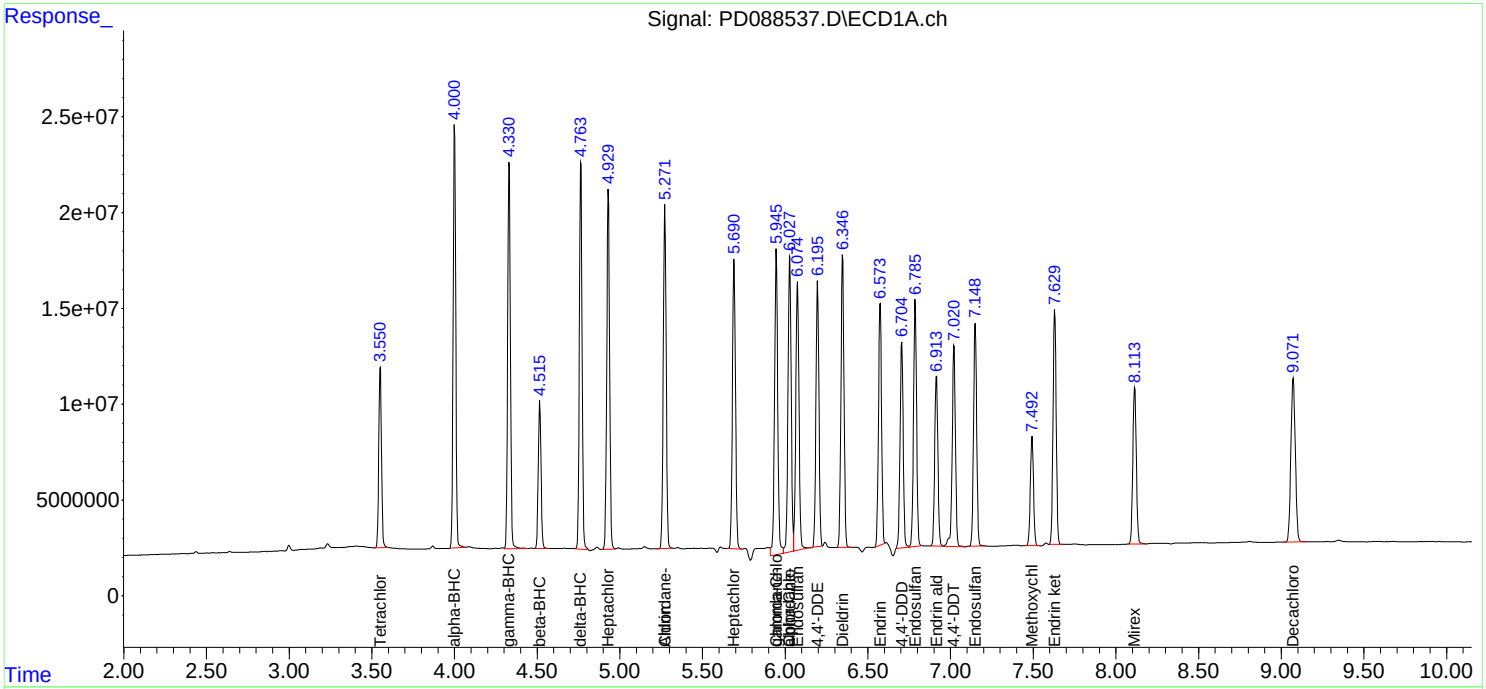
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

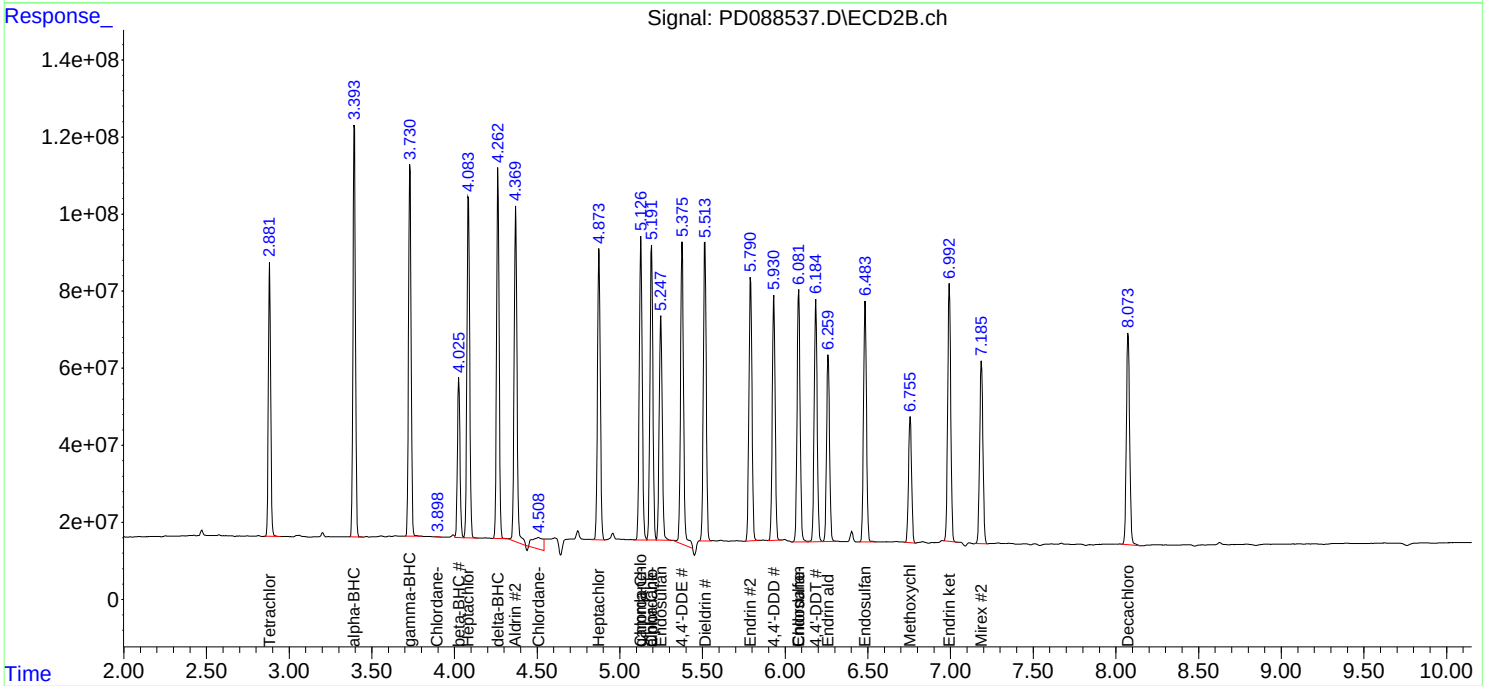
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051325\
Data File : PD088537.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 May 2025 19:46
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

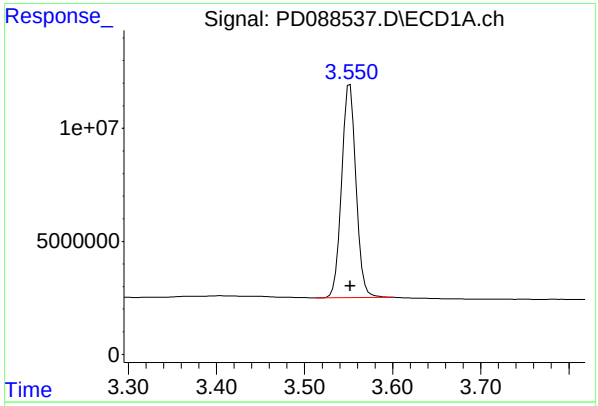
Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 22:47:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



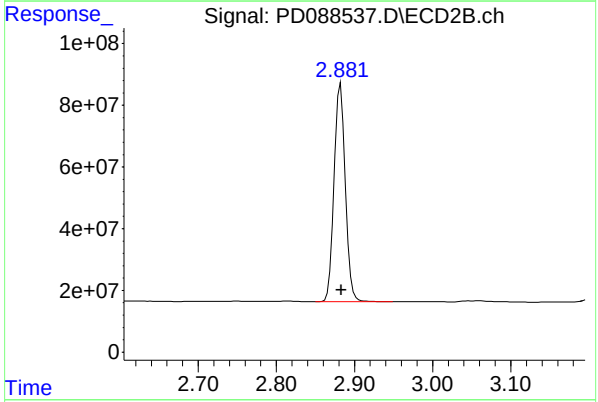




#1 Tetrachloro-m-xylene

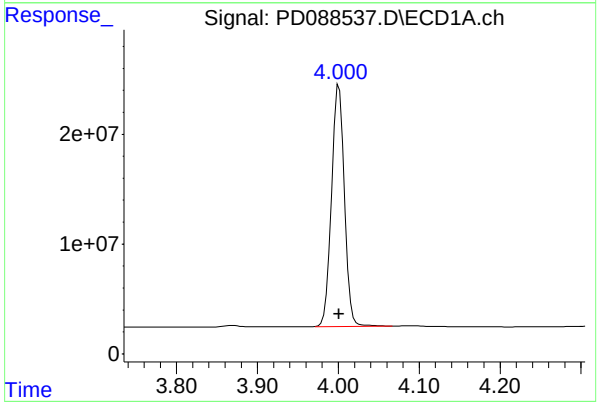
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 107180971
Conc: 53.66 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



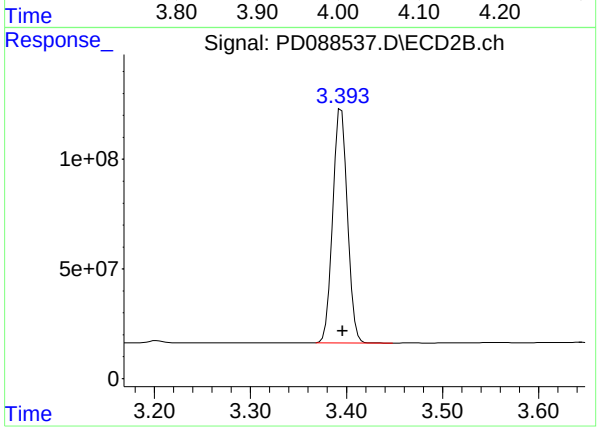
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 704132136
Conc: 48.16 ng/ml



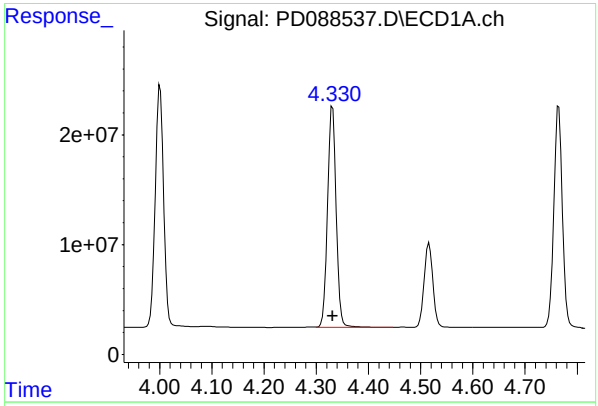
#2 alpha-BHC

R.T.: 4.001 min
Delta R.T.: 0.000 min
Response: 243068070
Conc: 56.37 ng/ml



#2 alpha-BHC

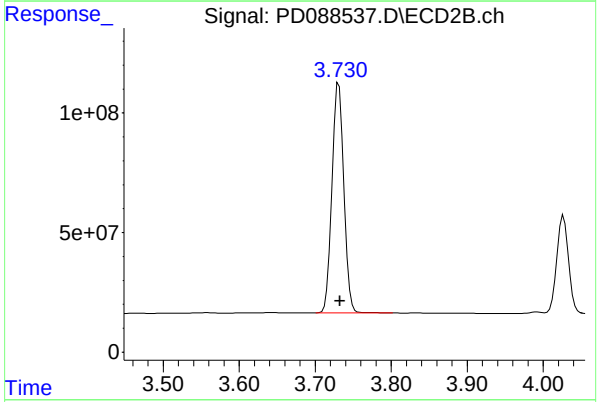
R.T.: 3.395 min
Delta R.T.: -0.002 min
Response: 1116039526
Conc: 48.82 ng/ml



#3 gamma-BHC (Lindane)

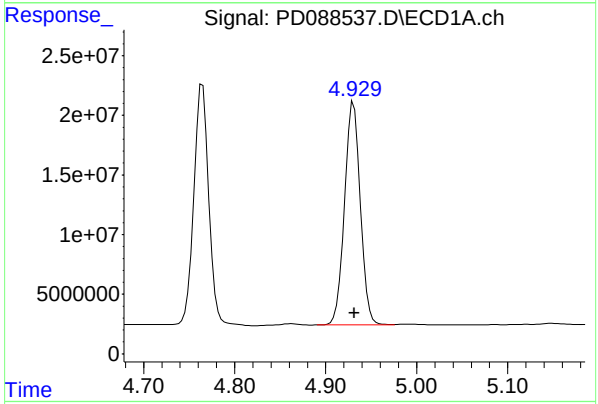
R.T.: 4.331 min
Delta R.T.: 0.000 min
Response: 232214324
Conc: 55.45 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



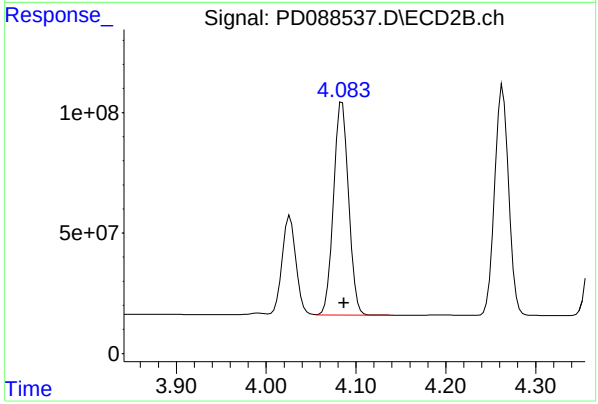
#3 gamma-BHC (Lindane)

R.T.: 3.731 min
Delta R.T.: -0.002 min
Response: 1035004772
Conc: 48.05 ng/ml



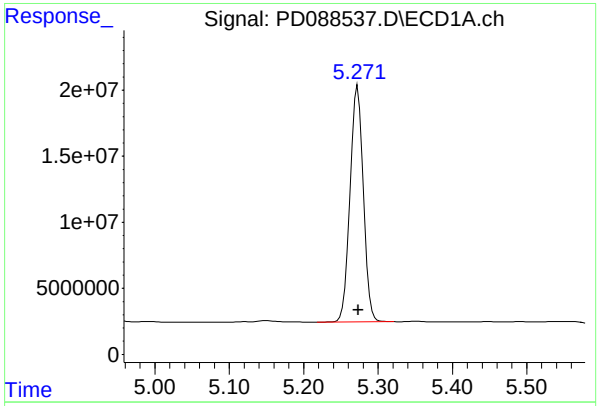
#4 Heptachlor

R.T.: 4.931 min
Delta R.T.: 0.000 min
Response: 226925955
Conc: 56.18 ng/ml



#4 Heptachlor

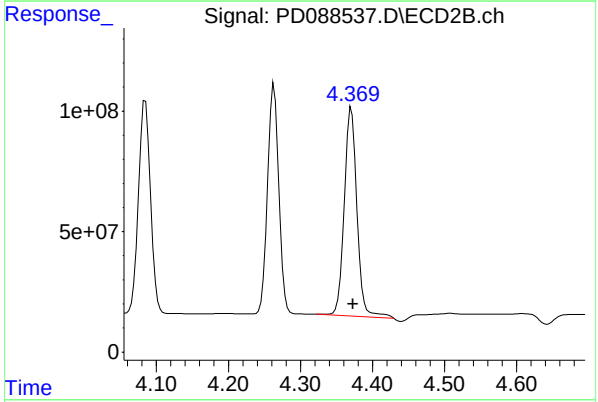
R.T.: 4.085 min
Delta R.T.: -0.002 min
Response: 1028245887
Conc: 48.05 ng/ml



#5 Aldrin

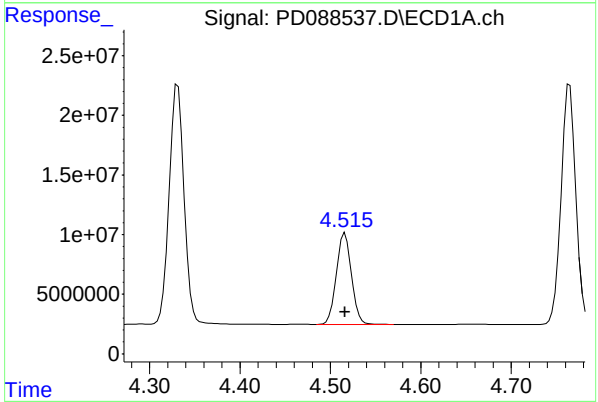
R.T.: 5.273 min
Delta R.T.: 0.000 min
Response: 221778010
Conc: 56.15 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



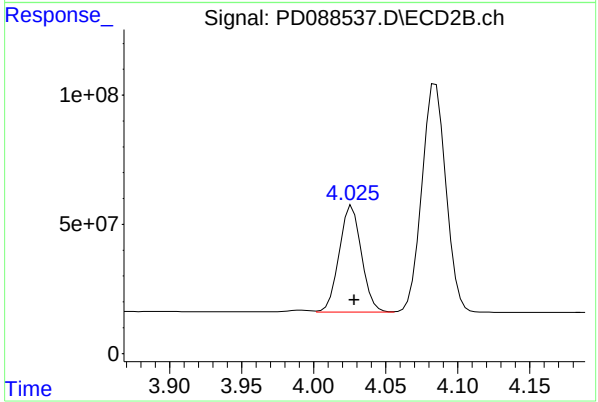
#5 Aldrin

R.T.: 4.371 min
Delta R.T.: -0.002 min
Response: 1057657347
Conc: 50.84 ng/ml



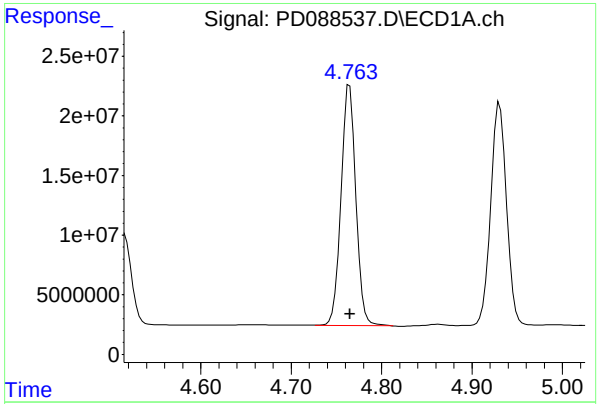
#6 beta-BHC

R.T.: 4.516 min
Delta R.T.: 0.000 min
Response: 88803675
Conc: 54.70 ng/ml



#6 beta-BHC

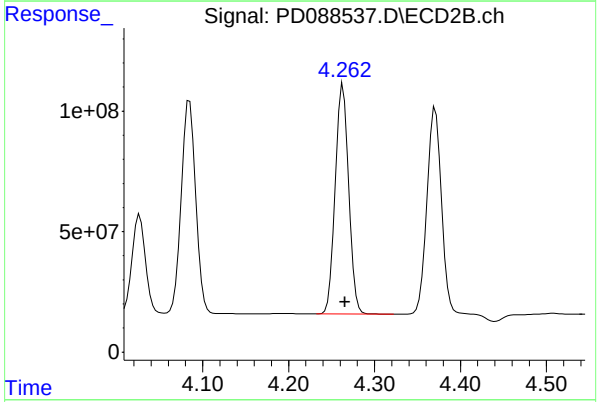
R.T.: 4.027 min
Delta R.T.: -0.002 min
Response: 441607931
Conc: 47.72 ng/ml



#7 delta-BHC

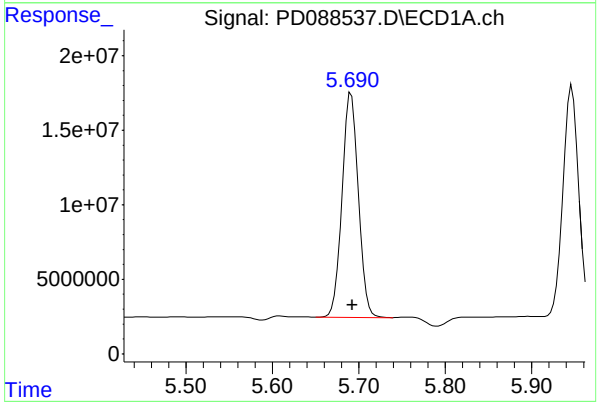
R.T.: 4.765 min
Delta R.T.: 0.000 min
Response: 230148790
Conc: 55.79 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



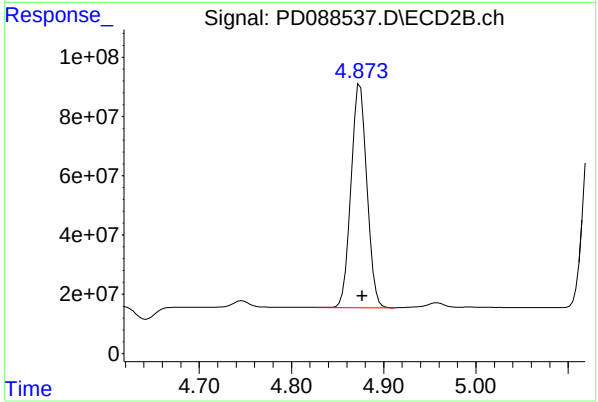
#7 delta-BHC

R.T.: 4.263 min
Delta R.T.: -0.002 min
Response: 1036090184
Conc: 48.73 ng/ml



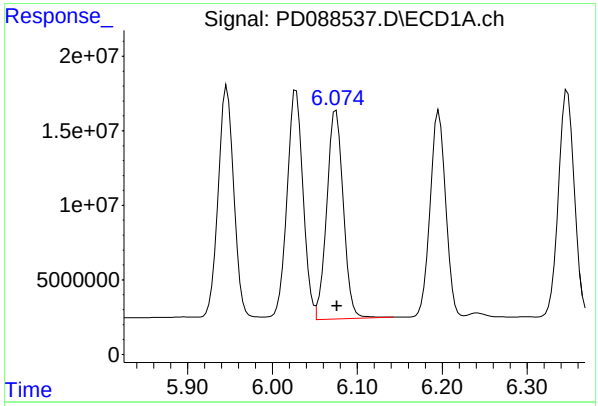
#8 Heptachlor epoxide

R.T.: 5.691 min
Delta R.T.: -0.002 min
Response: 196576386
Conc: 55.00 ng/ml



#8 Heptachlor epoxide

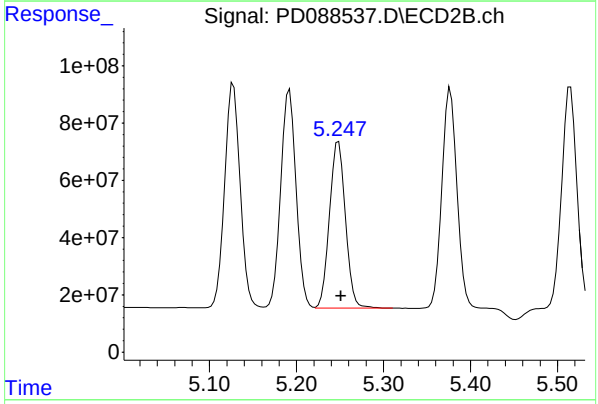
R.T.: 4.874 min
Delta R.T.: -0.002 min
Response: 904291304
Conc: 47.86 ng/ml



#9 Endosulfan I

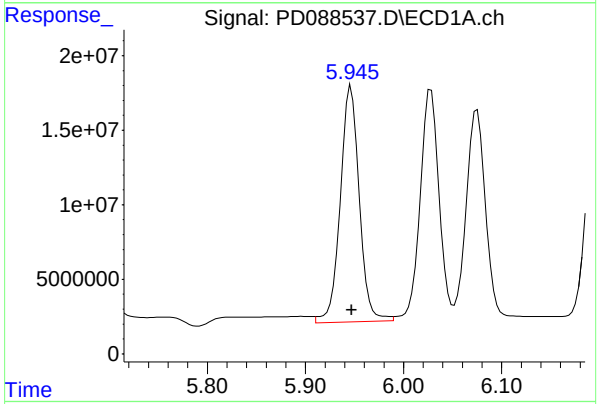
R.T.: 6.075 min
Delta R.T.: 0.000 min
Response: 189673373
Conc: 56.16 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



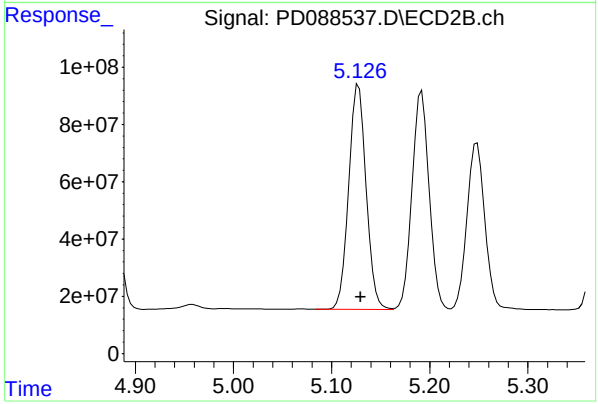
#9 Endosulfan I

R.T.: 5.248 min
Delta R.T.: -0.003 min
Response: 736988144
Conc: 40.92 ng/ml



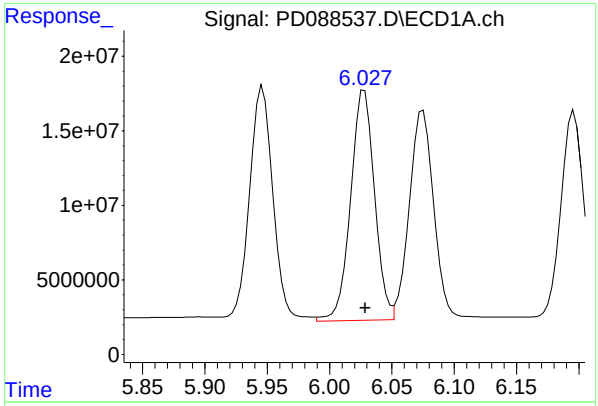
#10 gamma-Chlordane

R.T.: 5.947 min
Delta R.T.: 0.000 min
Response: 213493746
Conc: 58.94 ng/ml



#10 gamma-Chlordane

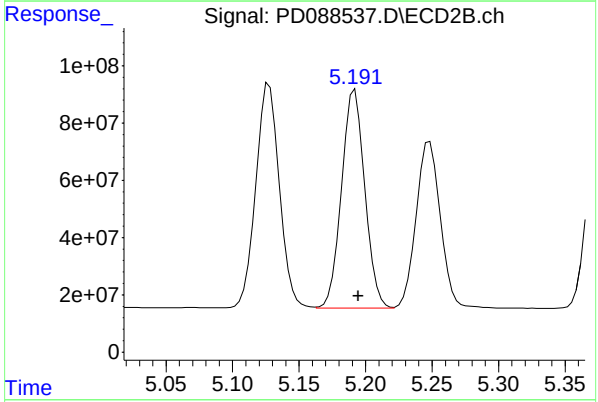
R.T.: 5.128 min
Delta R.T.: -0.002 min
Response: 968016592
Conc: 47.69 ng/ml



#11 alpha-Chlordane

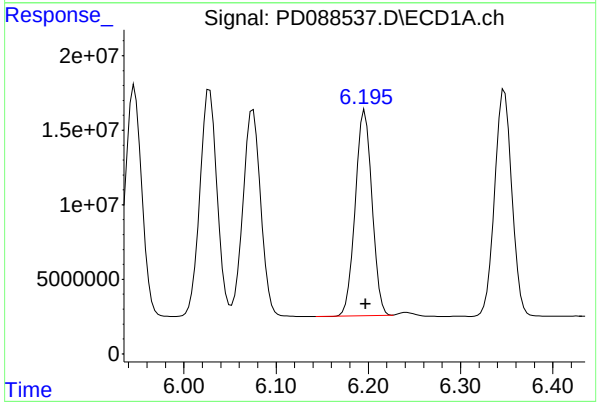
R.T.: 6.028 min
Delta R.T.: 0.000 min
Response: 205966690
Conc: 57.06 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



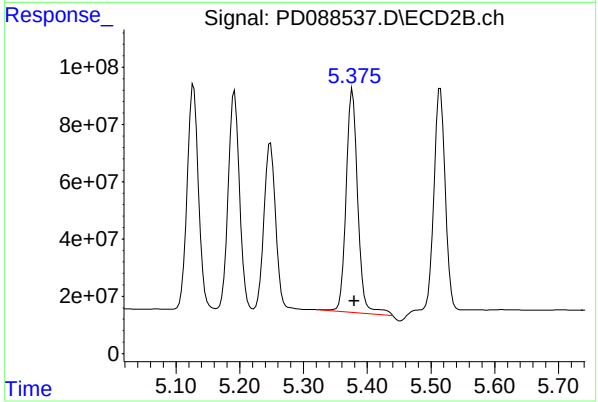
#11 alpha-Chlordane

R.T.: 5.192 min
Delta R.T.: -0.002 min
Response: 928198737
Conc: 47.35 ng/ml



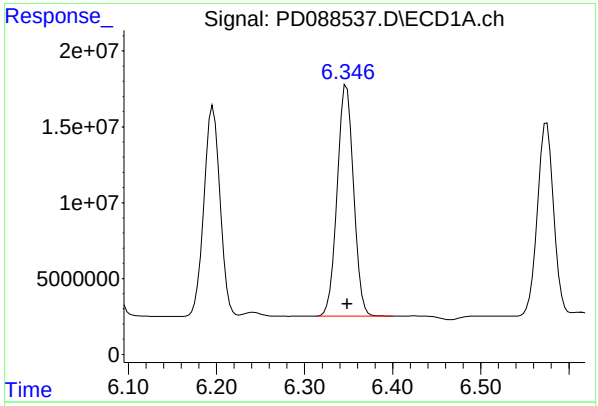
#12 4,4'-DDE

R.T.: 6.196 min
Delta R.T.: 0.000 min
Response: 173685511
Conc: 52.66 ng/ml



#12 4,4'-DDE

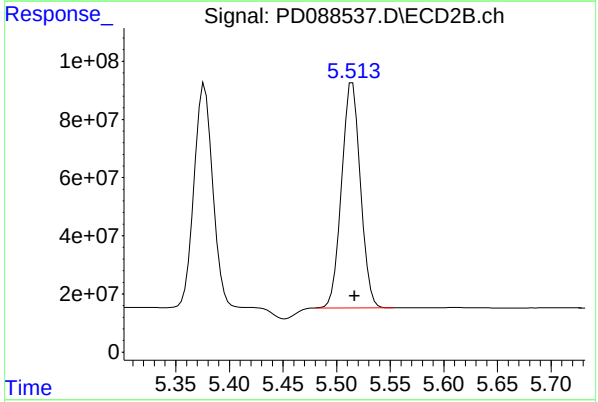
R.T.: 5.377 min
Delta R.T.: -0.003 min
Response: 995949594
Conc: 50.57 ng/ml



#13 Dieldrin

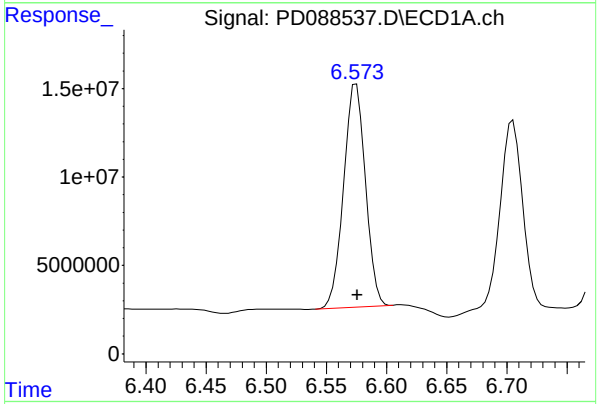
R.T.: 6.348 min
Delta R.T.: 0.000 min
Response: 197477741
Conc: 55.34 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



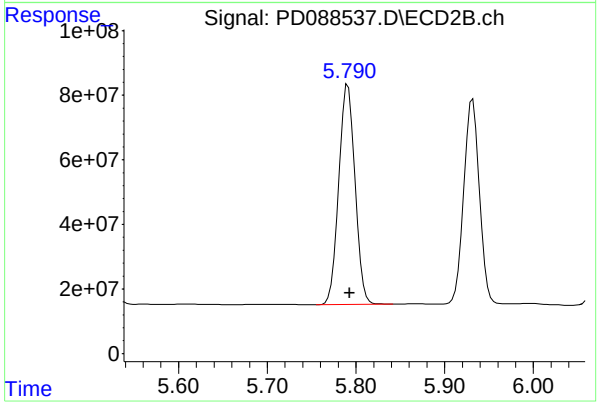
#13 Dieldrin

R.T.: 5.515 min
Delta R.T.: -0.002 min
Response: 947065389
Conc: 47.51 ng/ml



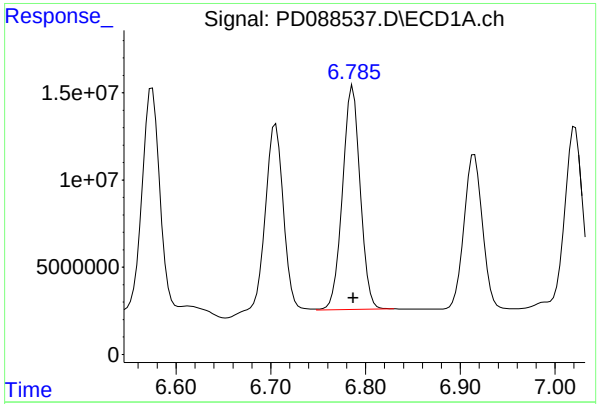
#14 Endrin

R.T.: 6.575 min
Delta R.T.: 0.000 min
Response: 159973121
Conc: 53.64 ng/ml



#14 Endrin

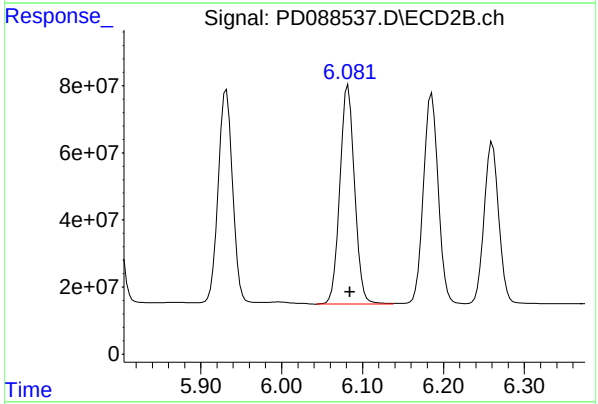
R.T.: 5.791 min
Delta R.T.: -0.002 min
Response: 868447501
Conc: 47.71 ng/ml



#15 Endosulfan II

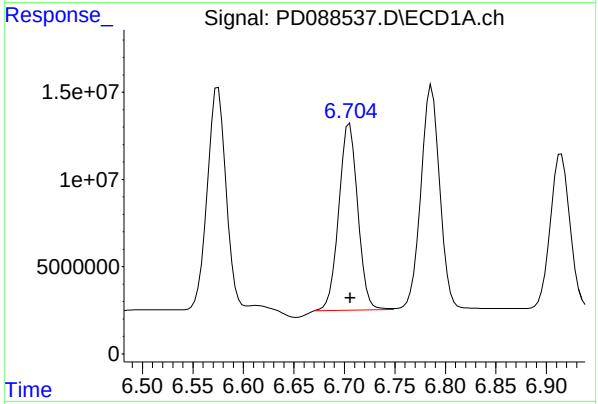
R.T.: 6.786 min
Delta R.T.: 0.000 min
Response: 166247341
Conc: 53.18 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



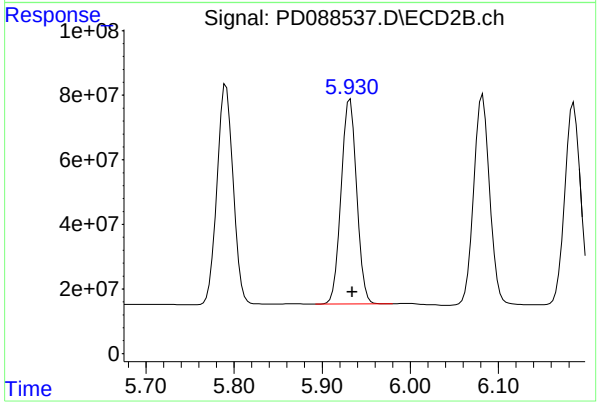
#15 Endosulfan II

R.T.: 6.082 min
Delta R.T.: -0.002 min
Response: 826114342
Conc: 47.15 ng/ml



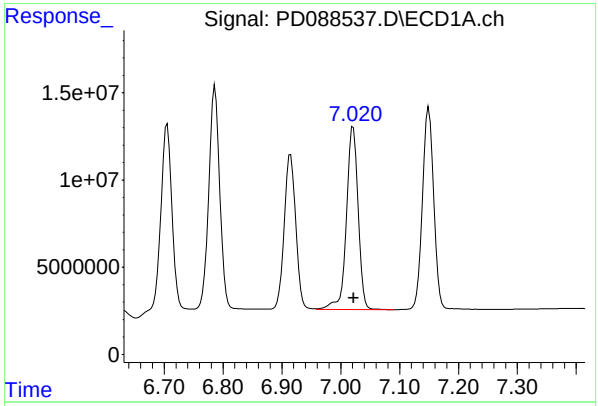
#16 4,4'-DDD

R.T.: 6.705 min
Delta R.T.: 0.000 min
Response: 140253743
Conc: 55.77 ng/ml



#16 4,4'-DDD

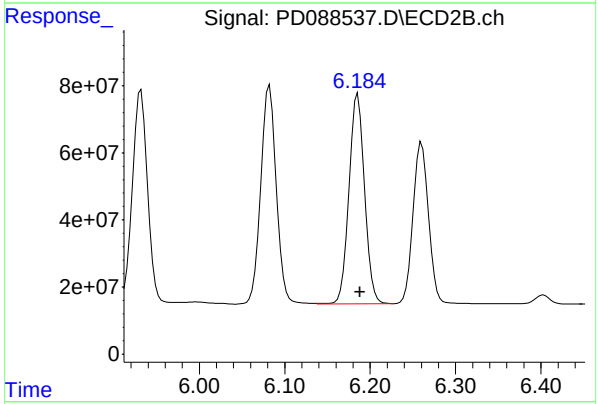
R.T.: 5.932 min
Delta R.T.: -0.002 min
Response: 779625528
Conc: 47.58 ng/ml



#17 4,4'-DDT

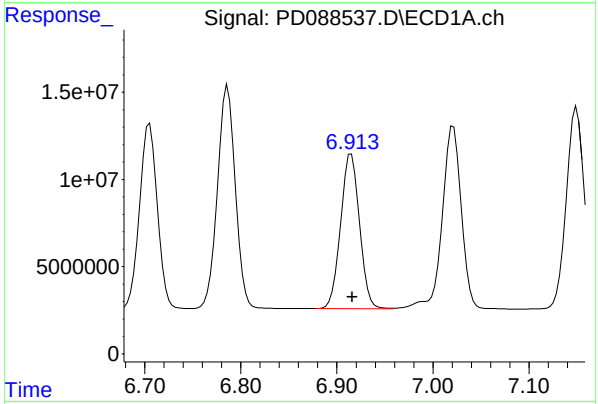
R.T.: 7.021 min
Delta R.T.: 0.000 min
Response: 145305386
Conc: 52.31 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



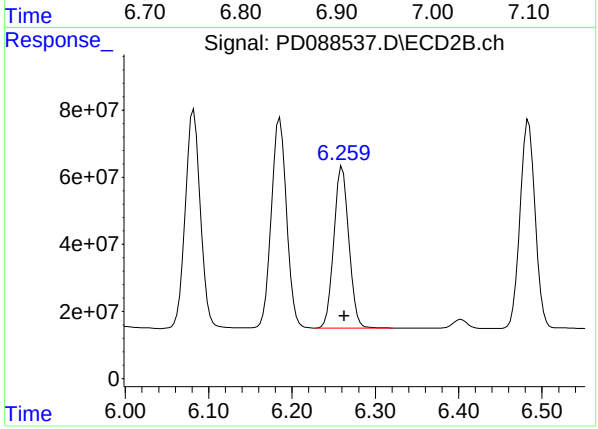
#17 4,4'-DDT

R.T.: 6.186 min
Delta R.T.: -0.002 min
Response: 797283310
Conc: 46.85 ng/ml



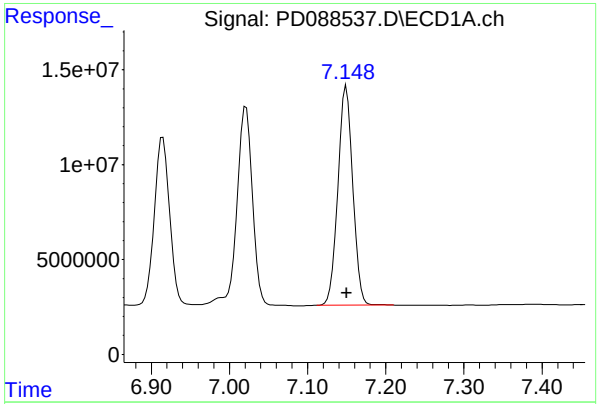
#18 Endrin aldehyde

R.T.: 6.915 min
Delta R.T.: -0.001 min
Response: 120439853
Conc: 52.18 ng/ml



#18 Endrin aldehyde

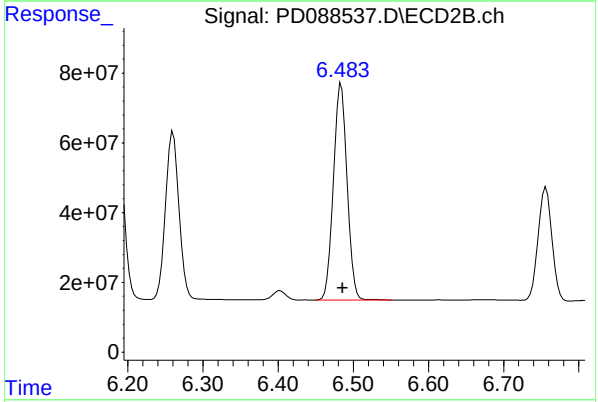
R.T.: 6.260 min
Delta R.T.: -0.003 min
Response: 603342788
Conc: 45.36 ng/ml



#19 Endosulfan Sulfate

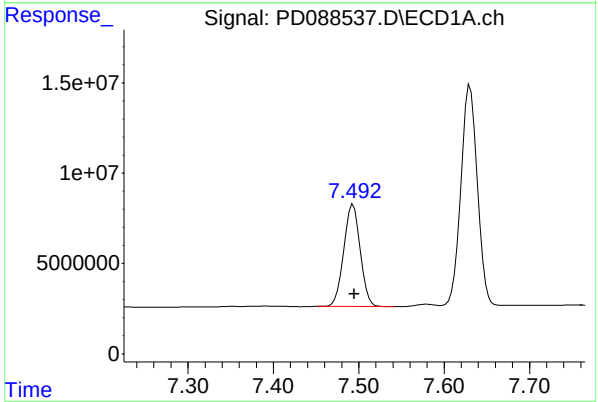
R.T.: 7.150 min
Delta R.T.: 0.000 min
Response: 153016576
Conc: 53.21 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



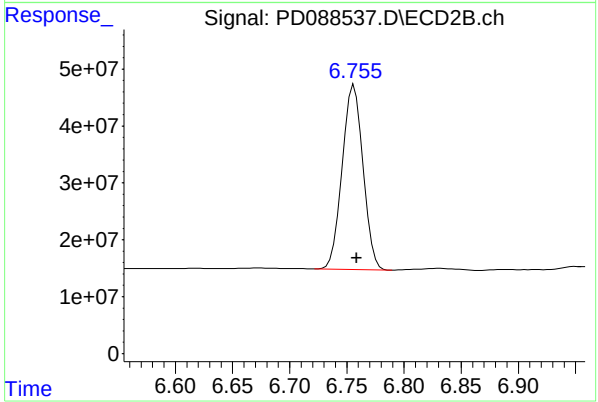
#19 Endosulfan Sulfate

R.T.: 6.484 min
Delta R.T.: -0.002 min
Response: 785198775
Conc: 45.83 ng/ml



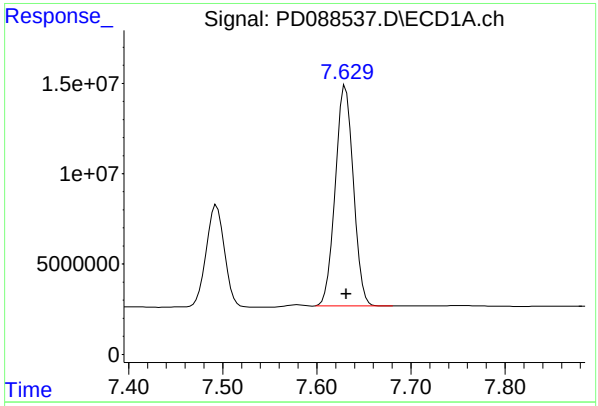
#20 Methoxychlor

R.T.: 7.493 min
Delta R.T.: -0.001 min
Response: 75967499
Conc: 50.66 ng/ml



#20 Methoxychlor

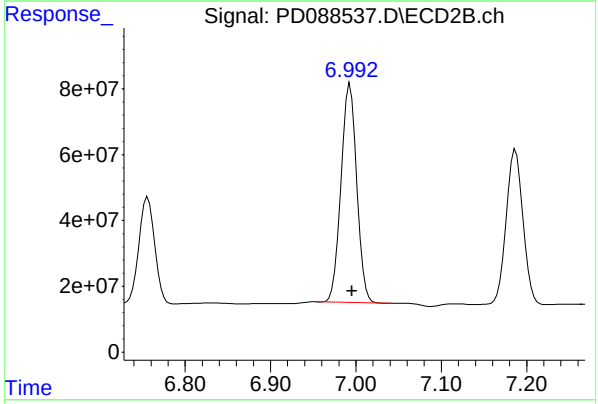
R.T.: 6.756 min
Delta R.T.: -0.002 min
Response: 414161356
Conc: 45.41 ng/ml



#21 Endrin ketone

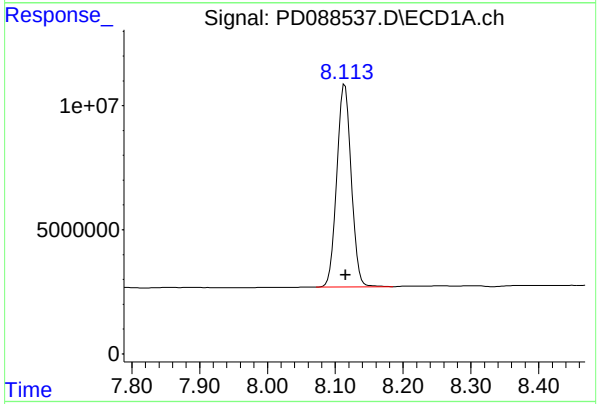
R.T.: 7.630 min
Delta R.T.: 0.000 min
Response: 163226444
Conc: 52.88 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



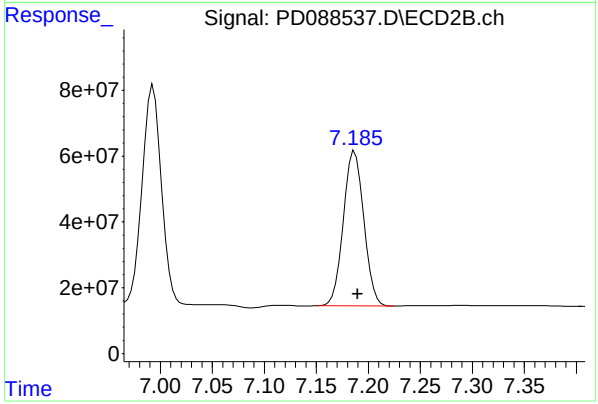
#21 Endrin ketone

R.T.: 6.993 min
Delta R.T.: -0.002 min
Response: 849434805
Conc: 45.41 ng/ml



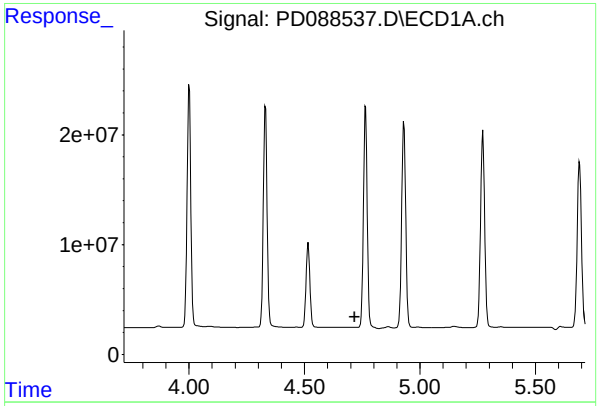
#22 Mirex

R.T.: 8.114 min
Delta R.T.: 0.000 min
Response: 120975733
Conc: 51.52 ng/ml



#22 Mirex

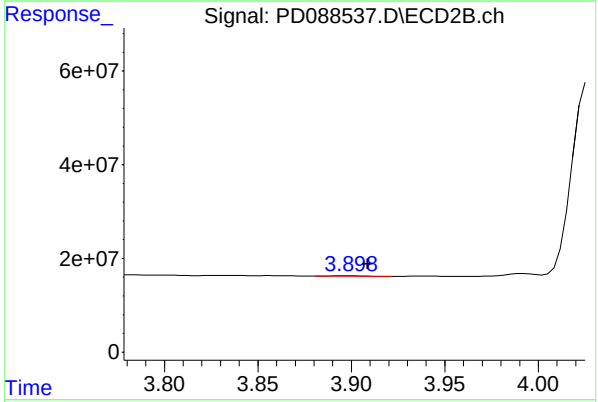
R.T.: 7.187 min
Delta R.T.: -0.003 min
Response: 644497185
Conc: 43.49 ng/ml



#23 Chlordane-1

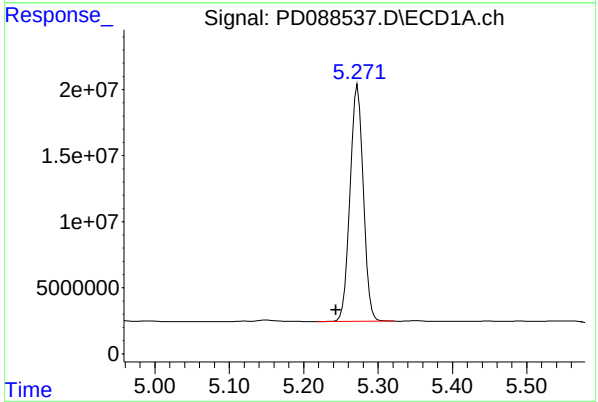
R.T.: 0.000 min
Exp R.T. : 4.717 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



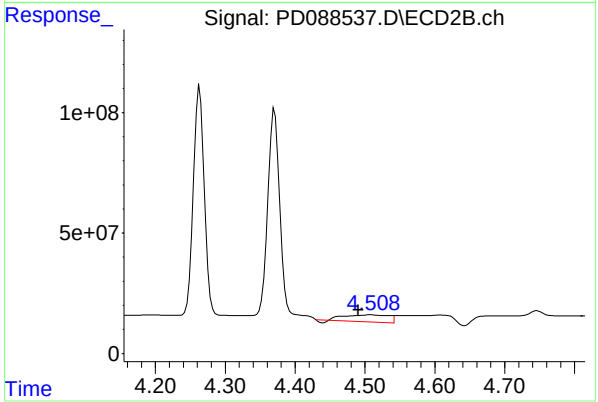
#23 Chlordane-1

R.T.: 3.897 min
Delta R.T.: -0.011 min
Response: 760051
Conc: 0.95 ng/ml



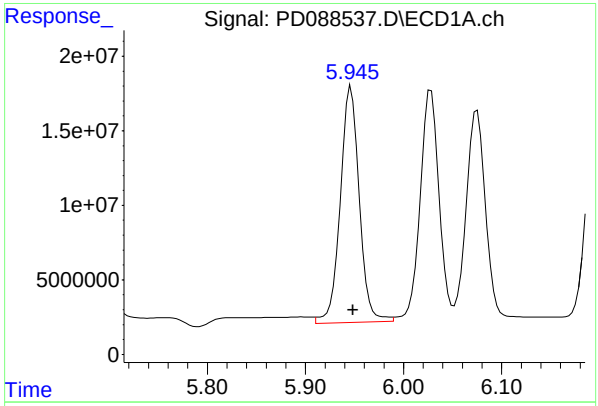
#24 Chlordane-2

R.T.: 5.273 min
Delta R.T.: 0.029 min
Response: 221778010
Conc: 1331.77 ng/ml



#24 Chlordane-2

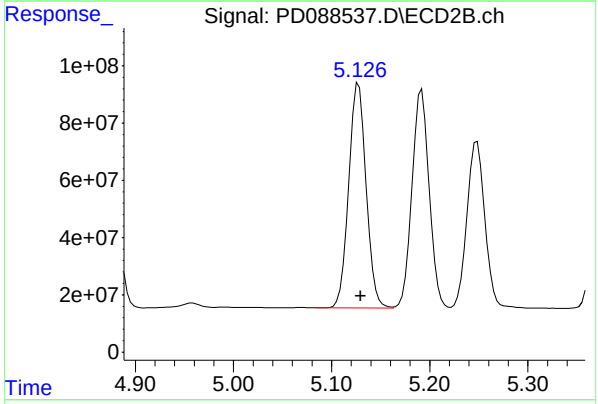
R.T.: 4.508 min
Delta R.T.: 0.018 min
Response: 124429199
Conc: 150.77 ng/ml



#25 Chlordane-3

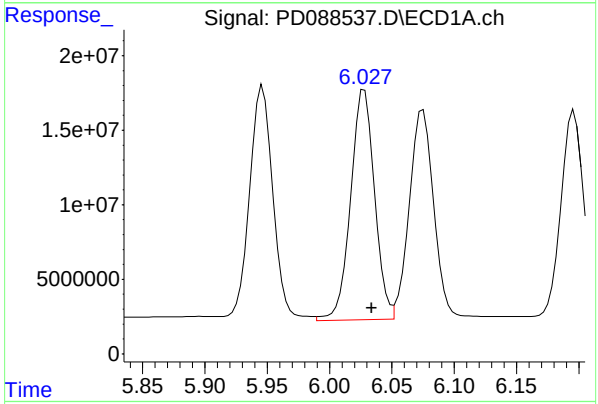
R.T.: 5.947 min
Delta R.T.: -0.002 min
Response: 213493746
Conc: 316.51 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



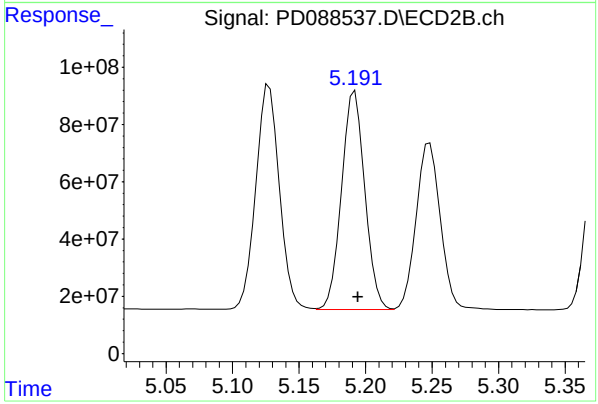
#25 Chlordane-3

R.T.: 5.128 min
Delta R.T.: -0.002 min
Response: 968016592
Conc: 382.76 ng/ml



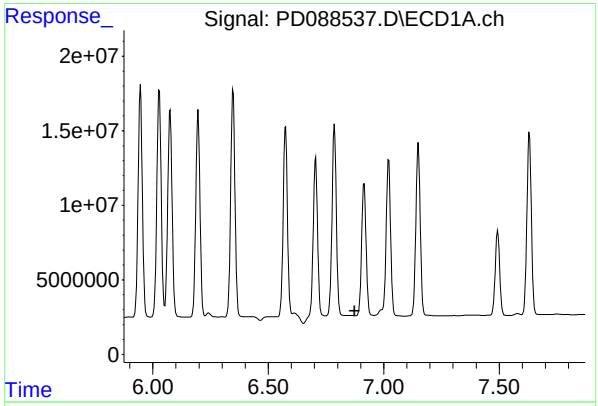
#26 Chlordane-4

R.T.: 6.028 min
Delta R.T.: -0.006 min
Response: 205966690
Conc: 252.62 ng/ml



#26 Chlordane-4

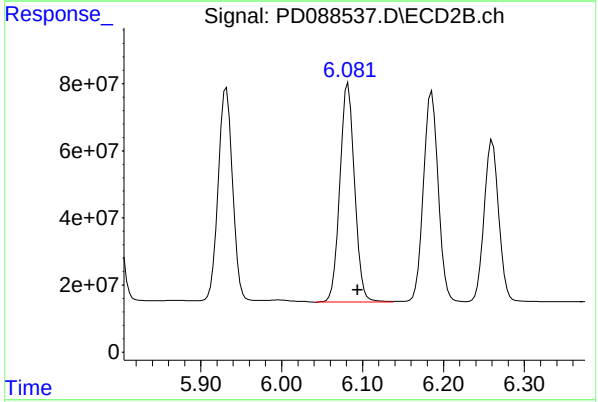
R.T.: 5.192 min
Delta R.T.: -0.002 min
Response: 928198737
Conc: 434.11 ng/ml



#27 Chlordane-5

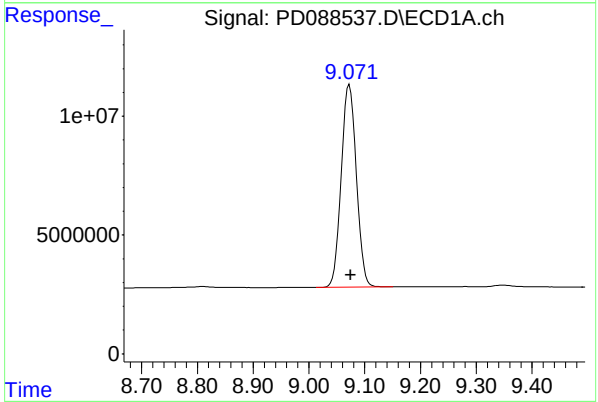
R.T.: 0.000 min
Exp R.T. : 6.873 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



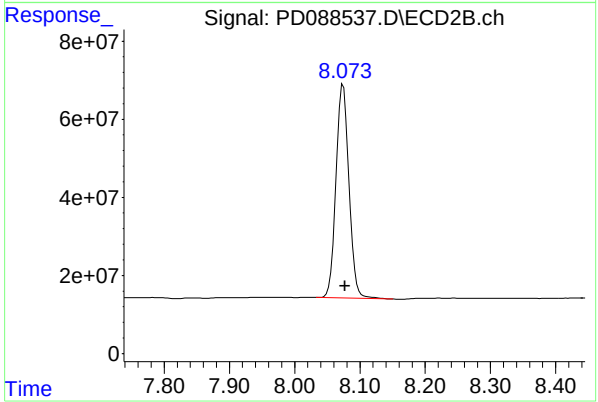
#27 Chlordane-5

R.T.: 6.082 min
Delta R.T.: -0.012 min
Response: 826114342
Conc: 855.61 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.072 min
Delta R.T.: -0.002 min
Response: 160532016
Conc: 48.53 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.074 min
Delta R.T.: -0.003 min
Response: 756774018
Conc: 40.95 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088552.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 09:18
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PEM

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:16:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound		RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	System Monitoring Compounds								
1)	SA	Tetrachlo...	3.556	2.882	44559178	304.3E6	22.309	20.812	
28)	SA	Decachlor...	9.081	8.077	73616746	367.0E6	22.253	19.861	
	Target Compounds								
2)	A	alpha-BHC	4.005	3.395	44045223	245.5E6	10.215	10.739	
3)	MA	gamma-BHC...	4.336	3.731	43946740	230.3E6	10.495	10.690	
4)	MA	Heptachlor	4.916f	4.092	953162	3455723	0.236	0.161	#
5)	MB	Aldrin	5.263	4.373	969616	66824163	0.245	3.212	#
6)	B	beta-BHC	4.522	4.027	19344346	92316778	11.916	9.976	
7)	B	delta-BHC	4.785f	4.277	2122671	4461981	0.515	0.210	#
8)	B	Heptachlo...	5.688	4.879	12504097	5333496	3.499	0.282	#
9)	A	Endosulfan I	6.071	5.231f	2107038	40826268	0.624	2.267	#
10)	B	gamma-Chl...	5.954	5.129	16338961	65201640	4.511	3.213	#
11)	B	alpha-Chl...	6.036	5.190	17581477	101.9E6	4.871	5.197	
12)	B	4,4'-DDE	6.193	5.378	707741	163.8E6	0.215	8.318	#
13)	MA	Dieldrin	6.358	5.529	95635	11193669	0.027	0.562	#
14)	MA	Endrin	6.581	5.792	164.3E6	891.5E6	55.086	48.975	
15)	B	Endosulfa...	6.778	6.088	7784631	30369926	2.490	1.733	#
16)	A	4,4'-DDD	6.712	5.932	26371526	34695900	10.486	2.117	#
17)	MA	4,4'-DDT	7.028	6.186	298.4E6	1588.6E6	107.447	93.357	
18)	B	Endrin al...	6.923	6.261	1361787	18660914	0.590	1.403	#
19)	B	Endosulfa...	7.151	6.483	525306	10729263	0.183	0.626	#
20)	A	Methoxychlor	7.500	6.758	370.6E6	1701.0E6	247.109	186.494	
21)	B	Endrin ke...	7.636	6.992	2233833	-1165927	0.724	N.D.	#
22)		Mirex	8.122	7.182	576251	7919070	0.245	0.534	#
23)		Chlordane-1	4.724	3.901	298000	2890947	1.794	3.606	#
24)		Chlordane-2	5.263f	4.509	969616	201.9E6	5.823	244.682	#
25)		Chlordane-3	5.954	5.129	16338961	65201640	24.223	25.781	
26)		Chlordane-4	6.036	5.190	17581477	101.9E6	21.564	47.648	#
27)		Chlordane-5	0.000	6.088	0	30369926	N.D.	31.454	#

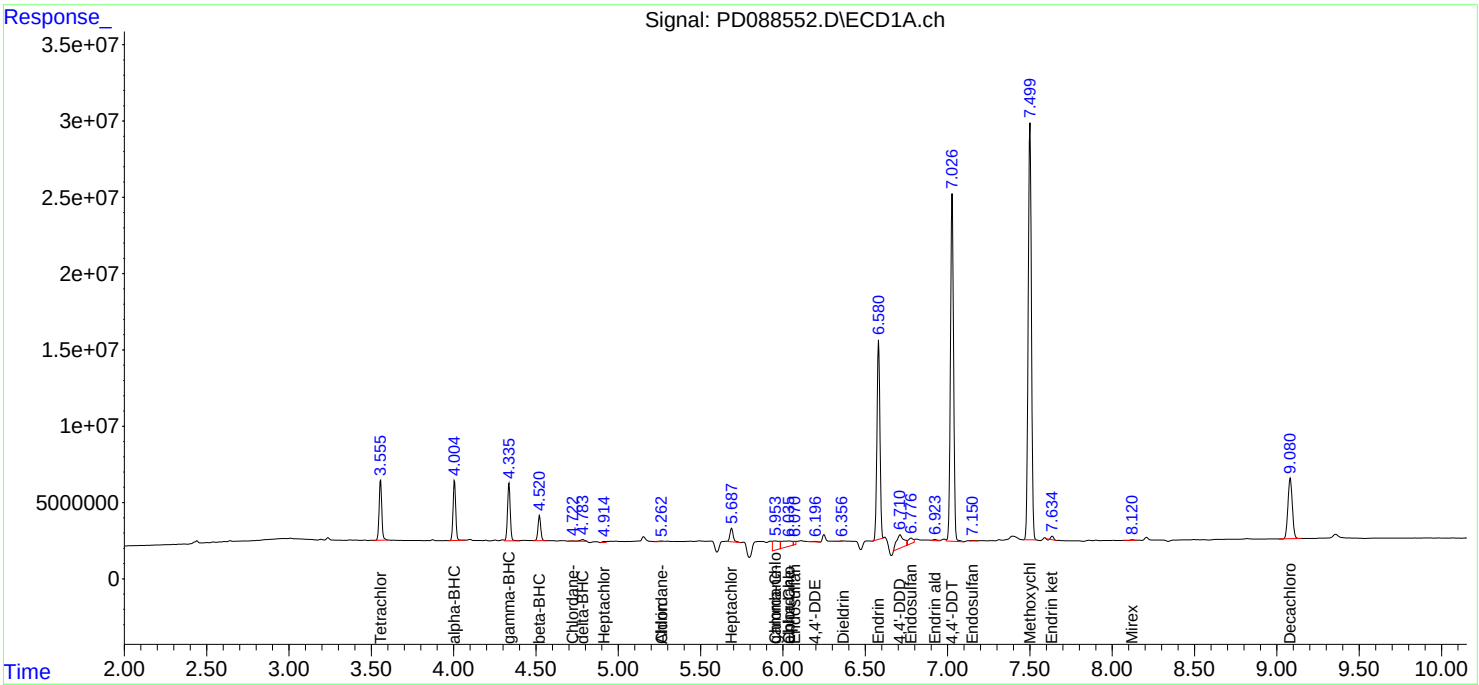
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

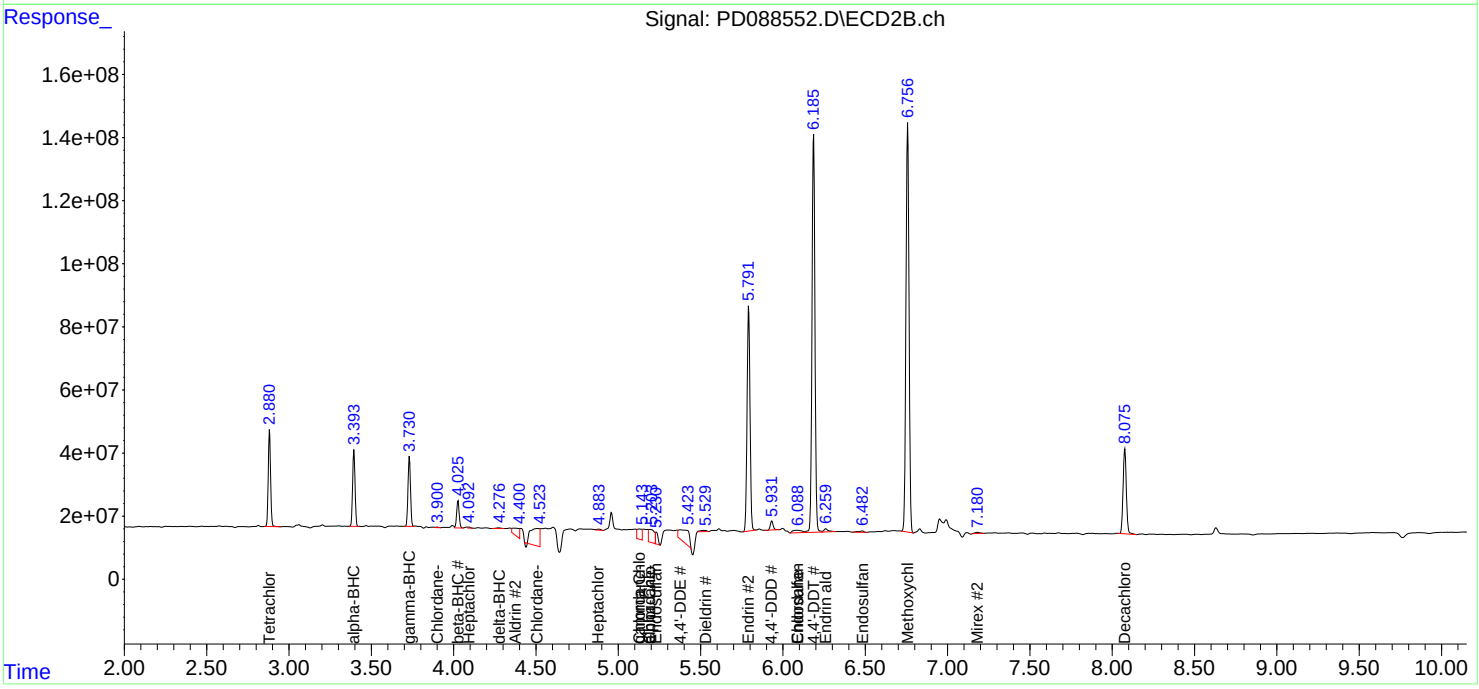
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088552.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 09:18
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

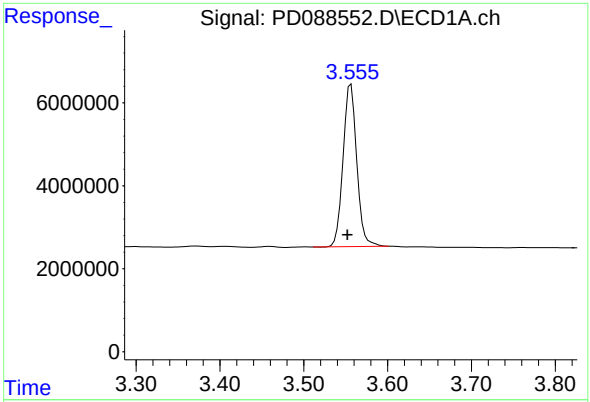
Instrument :
ECD_D
ClientSampleId :
PEM

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:16:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



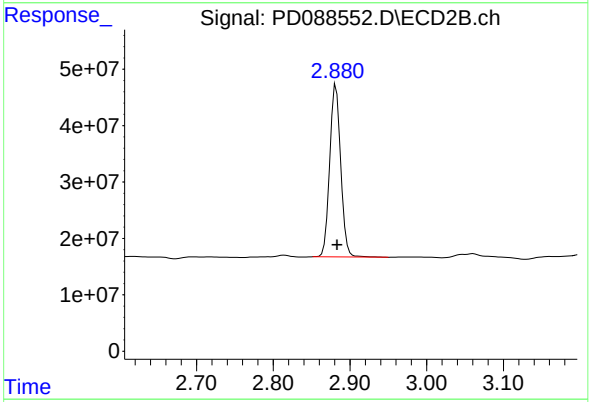




#1 Tetrachloro-m-xylene

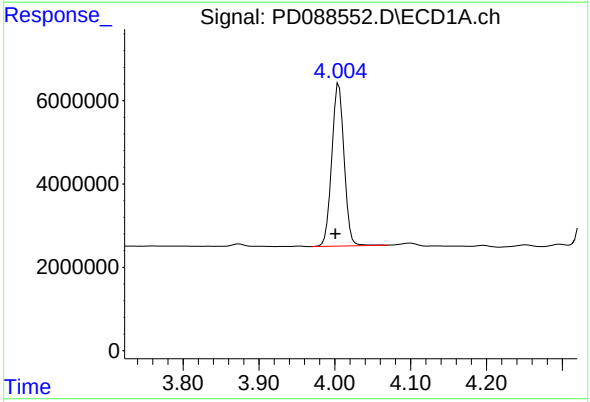
R.T.: 3.556 min
Delta R.T.: 0.004 min
Response: 44559178
Conc: 22.31 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



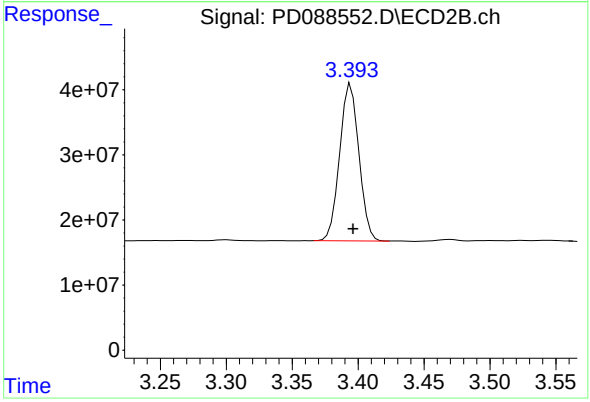
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: -0.001 min
Response: 304304325
Conc: 20.81 ng/ml



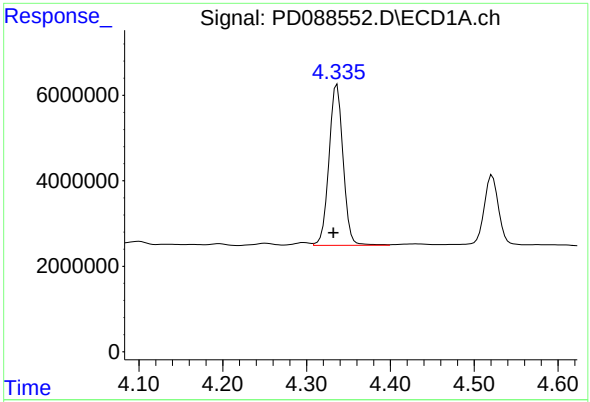
#2 alpha-BHC

R.T.: 4.005 min
Delta R.T.: 0.004 min
Response: 44045223
Conc: 10.21 ng/ml



#2 alpha-BHC

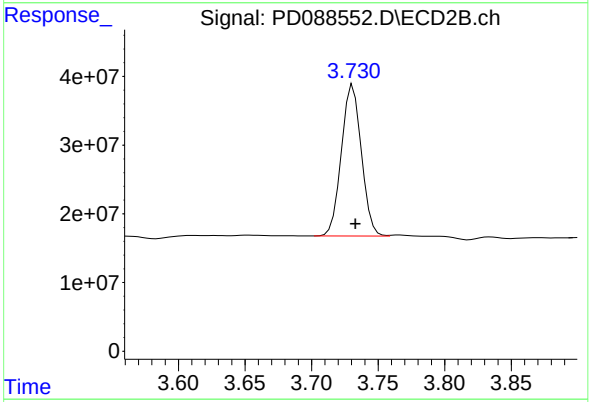
R.T.: 3.395 min
Delta R.T.: -0.002 min
Response: 245512559
Conc: 10.74 ng/ml



#3 gamma-BHC (Lindane)

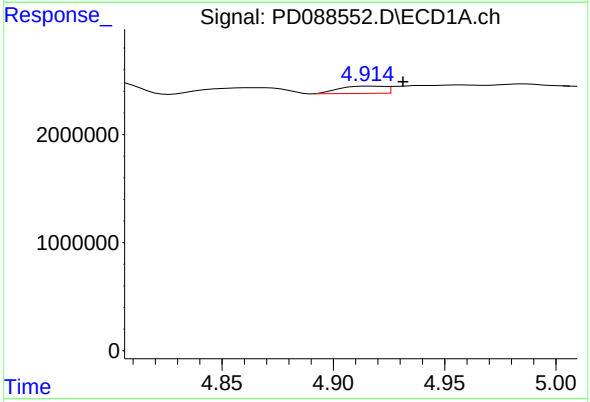
R.T.: 4.336 min
Delta R.T.: 0.005 min
Response: 43946740
Conc: 10.49 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



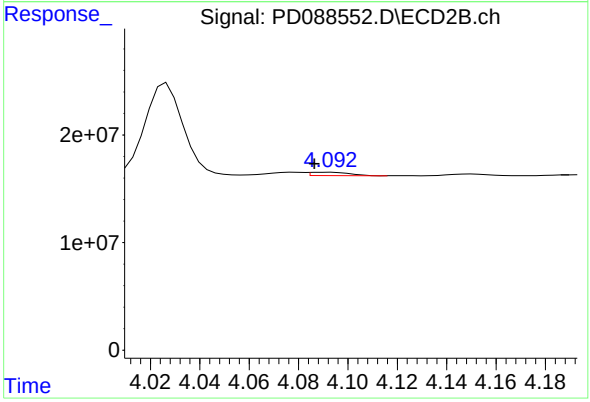
#3 gamma-BHC (Lindane)

R.T.: 3.731 min
Delta R.T.: -0.002 min
Response: 230251284
Conc: 10.69 ng/ml



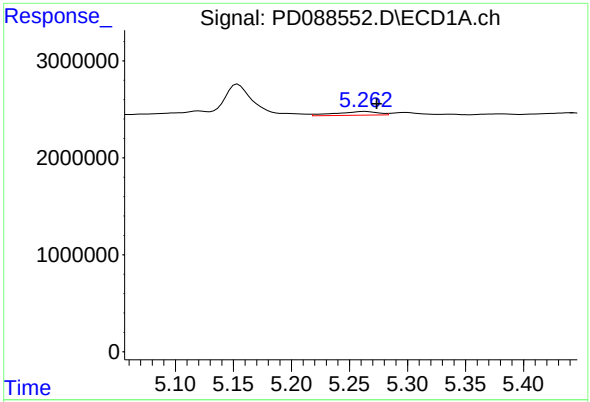
#4 Heptachlor

R.T.: 4.916 min
Delta R.T.: -0.015 min
Response: 953162
Conc: 0.24 ng/ml



#4 Heptachlor

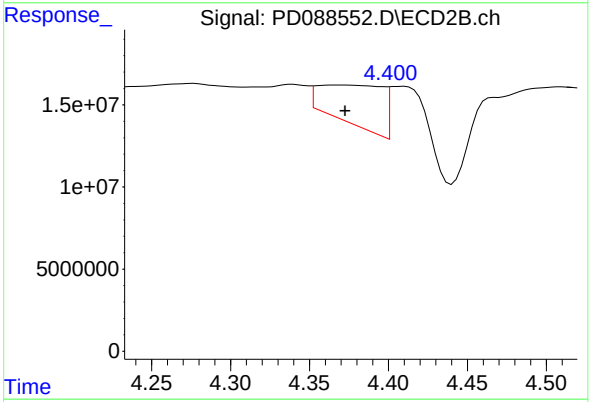
R.T.: 4.092 min
Delta R.T.: 0.006 min
Response: 3455723
Conc: 0.16 ng/ml



#5 Aldrin

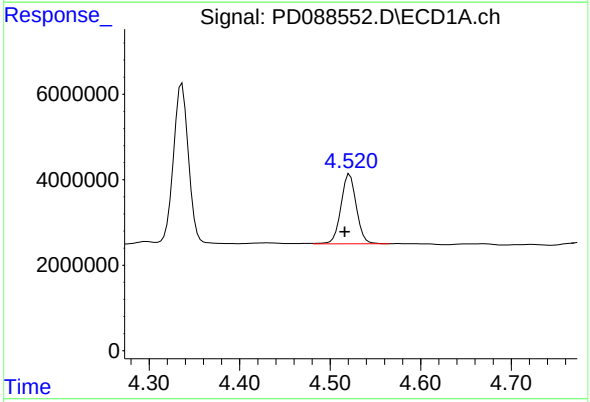
R.T.: 5.263 min
Delta R.T.: -0.010 min
Response: 969616
Conc: 0.25 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



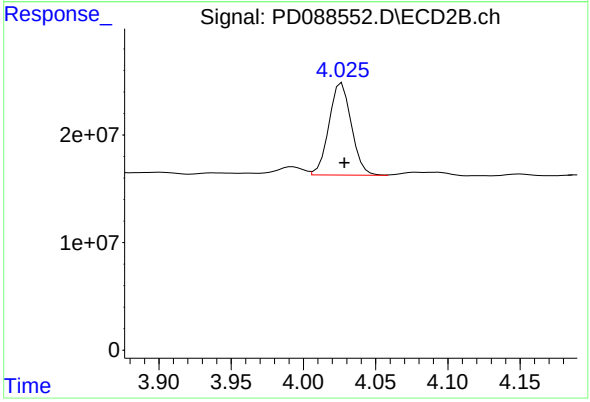
#5 Aldrin

R.T.: 4.373 min
Delta R.T.: 0.000 min
Response: 66824163
Conc: 3.21 ng/ml



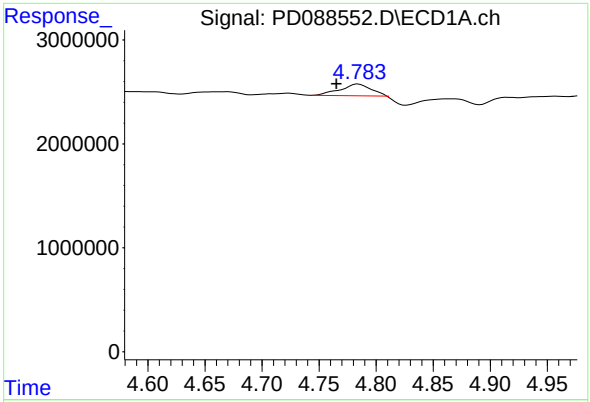
#6 beta-BHC

R.T.: 4.522 min
Delta R.T.: 0.005 min
Response: 19344346
Conc: 11.92 ng/ml



#6 beta-BHC

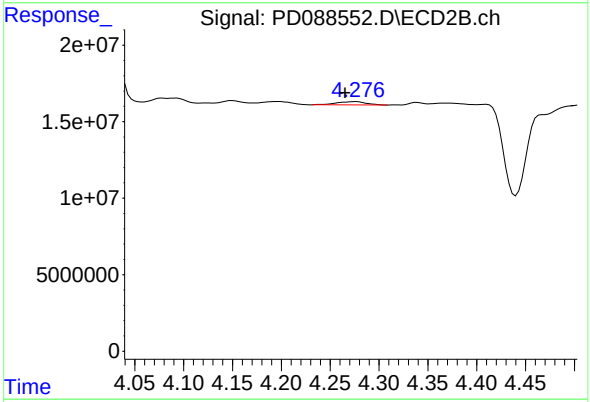
R.T.: 4.027 min
Delta R.T.: -0.002 min
Response: 92316778
Conc: 9.98 ng/ml



#7 delta-BHC

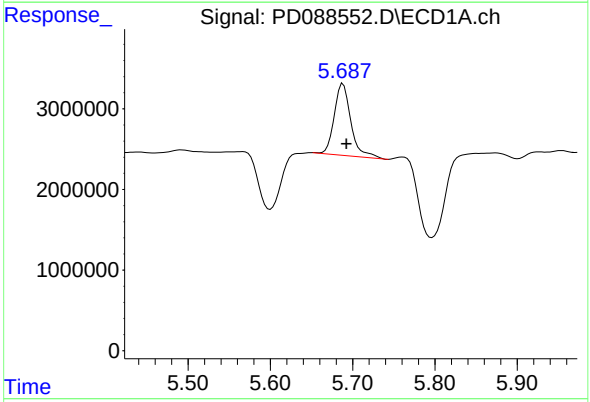
R.T.: 4.785 min
Delta R.T.: 0.019 min
Response: 2122671
Conc: 0.51 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



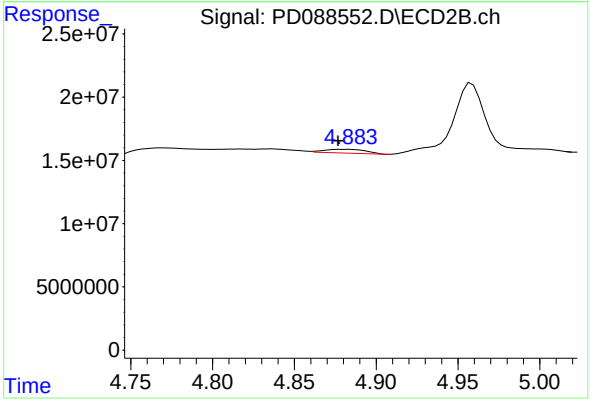
#7 delta-BHC

R.T.: 4.277 min
Delta R.T.: 0.011 min
Response: 4461981
Conc: 0.21 ng/ml



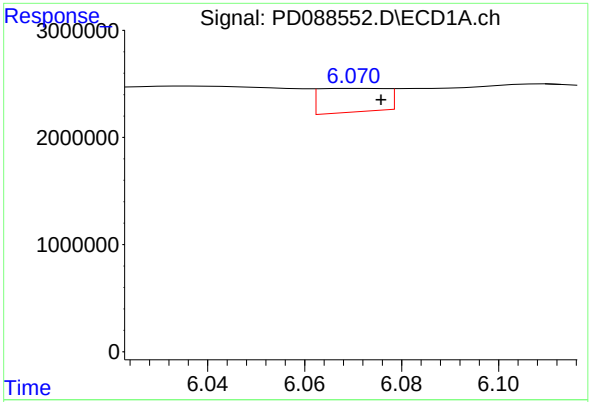
#8 Heptachlor epoxide

R.T.: 5.688 min
Delta R.T.: -0.004 min
Response: 12504097
Conc: 3.50 ng/ml



#8 Heptachlor epoxide

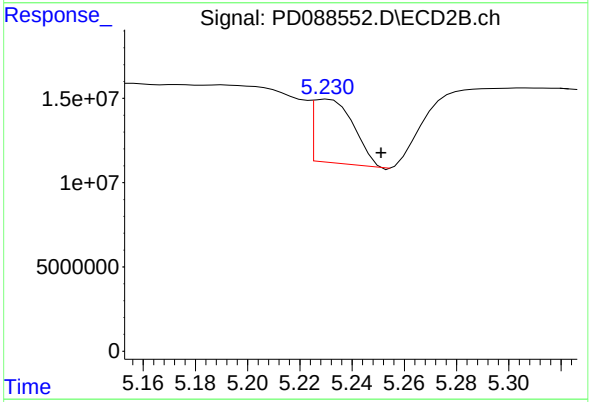
R.T.: 4.879 min
Delta R.T.: 0.002 min
Response: 5333496
Conc: 0.28 ng/ml



#9 Endosulfan I

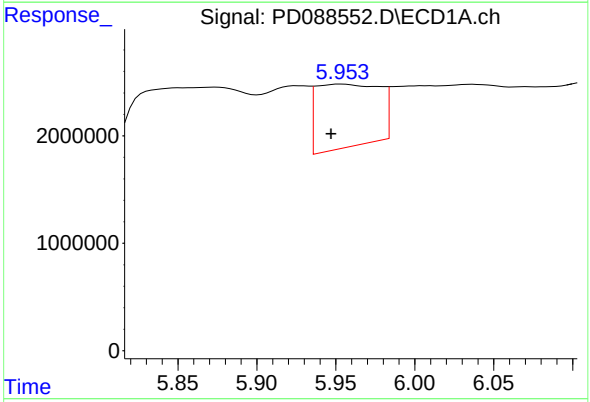
R.T.: 6.071 min
Delta R.T.: -0.005 min
Response: 2107038
Conc: 0.62 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



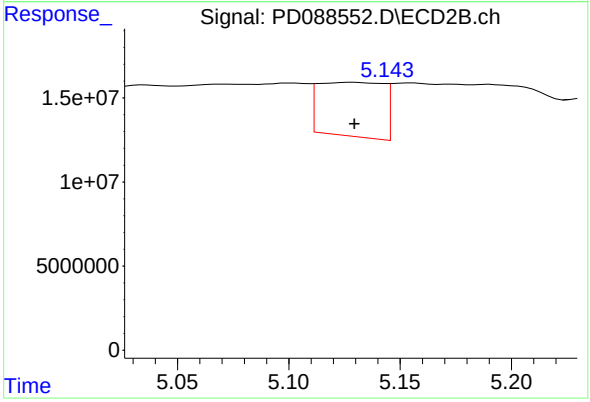
#9 Endosulfan I

R.T.: 5.231 min
Delta R.T.: -0.020 min
Response: 40826268
Conc: 2.27 ng/ml



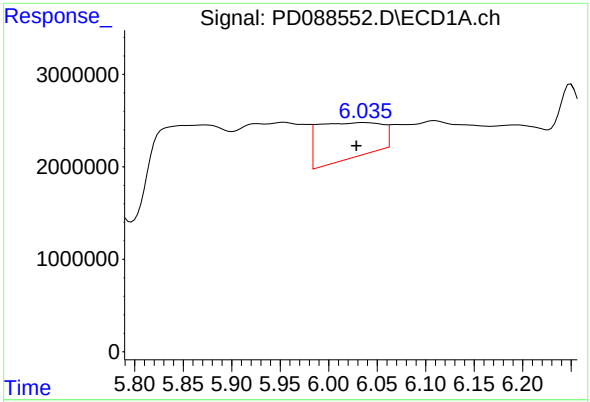
#10 gamma-Chlordane

R.T.: 5.954 min
Delta R.T.: 0.007 min
Response: 16338961
Conc: 4.51 ng/ml



#10 gamma-Chlordane

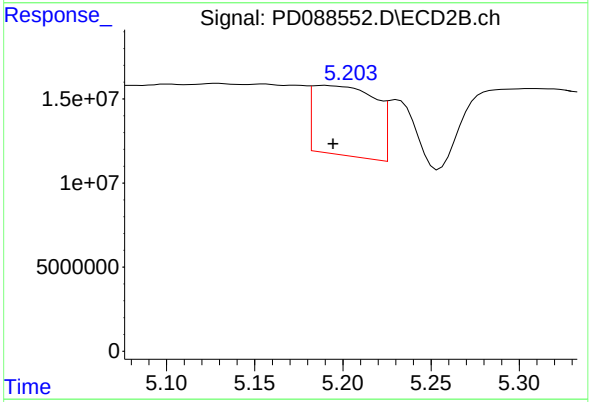
R.T.: 5.129 min
Delta R.T.: 0.000 min
Response: 65201640
Conc: 3.21 ng/ml



#11 alpha-Chlordane

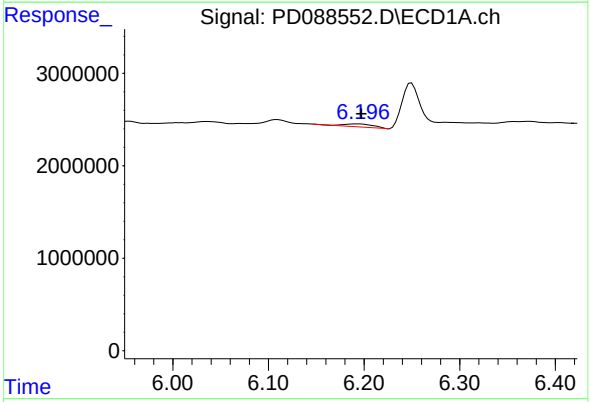
R.T.: 6.036 min
Delta R.T.: 0.008 min
Response: 17581477
Conc: 4.87 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



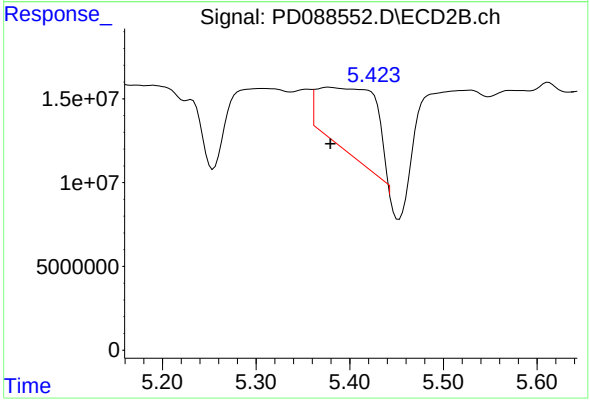
#11 alpha-Chlordane

R.T.: 5.190 min
Delta R.T.: -0.004 min
Response: 101879282
Conc: 5.20 ng/ml



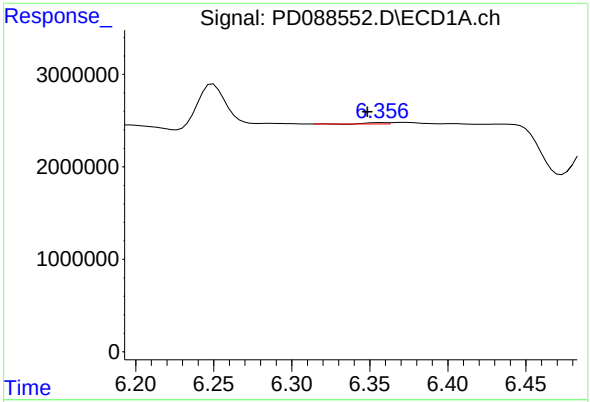
#12 4,4'-DDE

R.T.: 6.193 min
Delta R.T.: -0.004 min
Response: 707741
Conc: 0.21 ng/ml



#12 4,4'-DDE

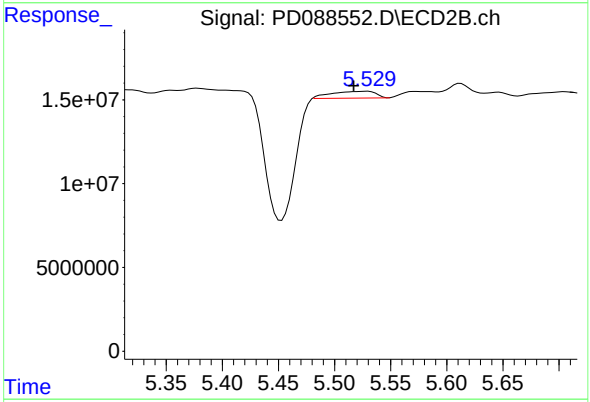
R.T.: 5.378 min
Delta R.T.: -0.002 min
Response: 163815737
Conc: 8.32 ng/ml



#13 Dieldrin

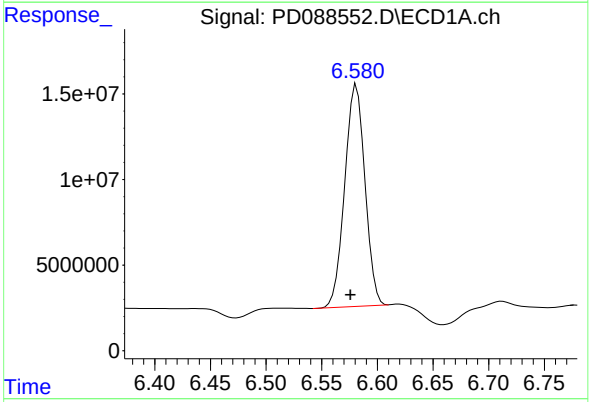
R.T.: 6.358 min
Delta R.T.: 0.010 min
Response: 95635
Conc: 0.03 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



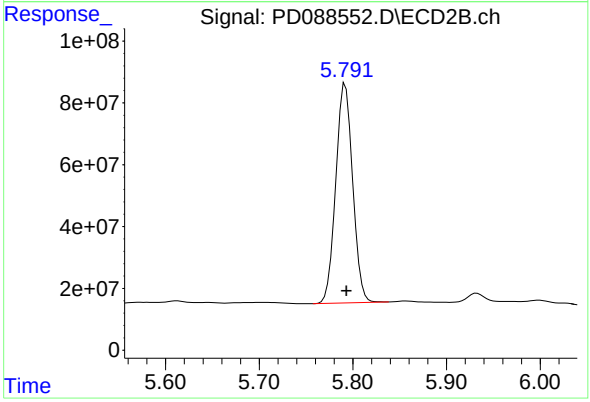
#13 Dieldrin

R.T.: 5.529 min
Delta R.T.: 0.012 min
Response: 11193669
Conc: 0.56 ng/ml



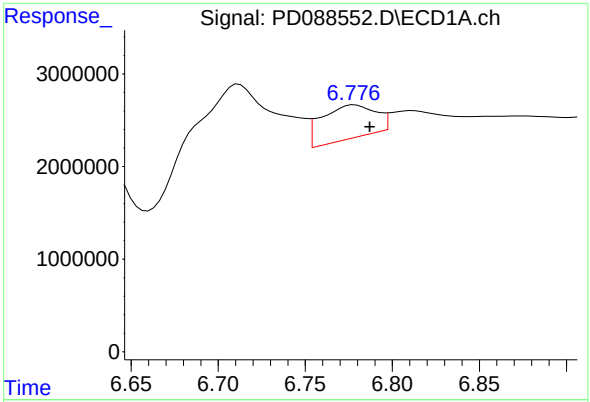
#14 Endrin

R.T.: 6.581 min
Delta R.T.: 0.005 min
Response: 164297390
Conc: 55.09 ng/ml



#14 Endrin

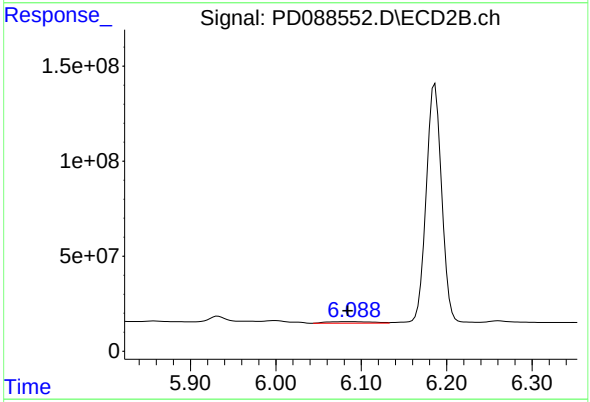
R.T.: 5.792 min
Delta R.T.: 0.000 min
Response: 891463757
Conc: 48.98 ng/ml



#15 Endosulfan II

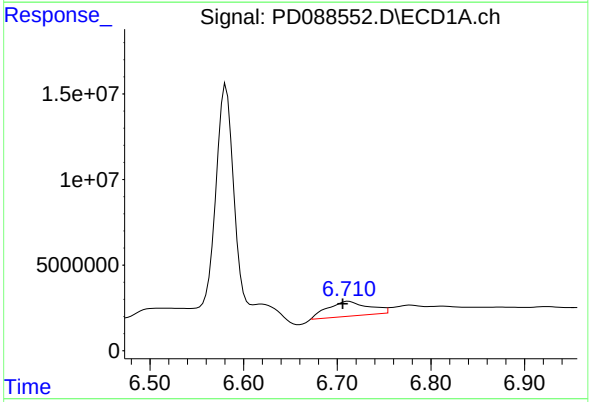
R.T.: 6.778 min
Delta R.T.: -0.009 min
Response: 7784631
Conc: 2.49 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



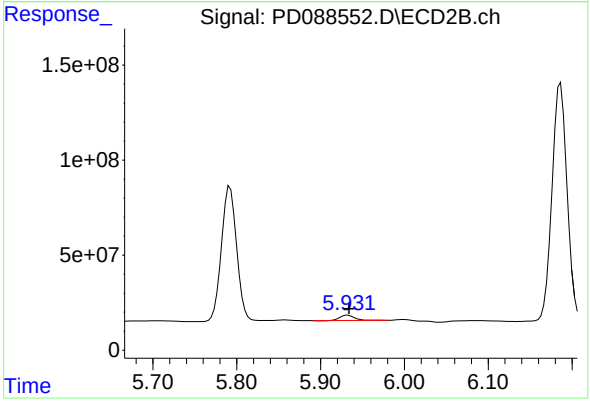
#15 Endosulfan II

R.T.: 6.088 min
Delta R.T.: 0.003 min
Response: 30369926
Conc: 1.73 ng/ml



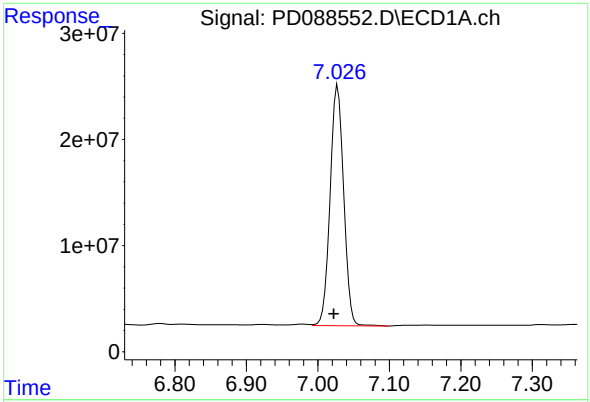
#16 4,4'-DDD

R.T.: 6.712 min
Delta R.T.: 0.006 min
Response: 26371526
Conc: 10.49 ng/ml



#16 4,4'-DDD

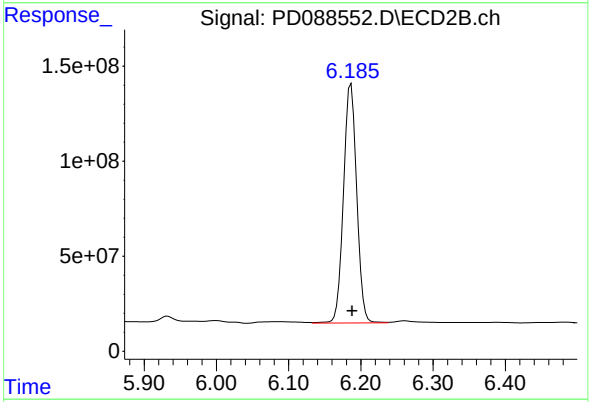
R.T.: 5.932 min
Delta R.T.: -0.002 min
Response: 34695900
Conc: 2.12 ng/ml



#17 4,4'-DDT

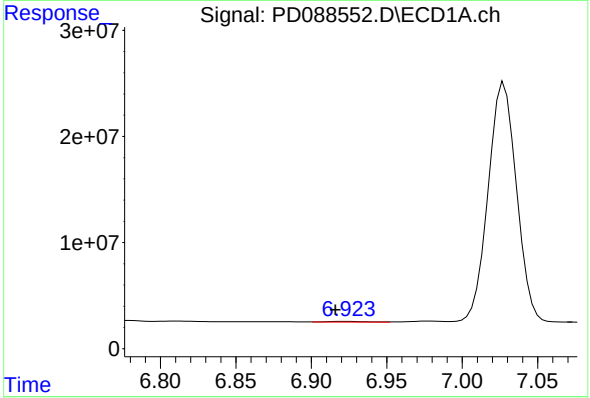
R.T.: 7.028 min
Delta R.T.: 0.006 min
Response: 298437565
Conc: 107.45 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



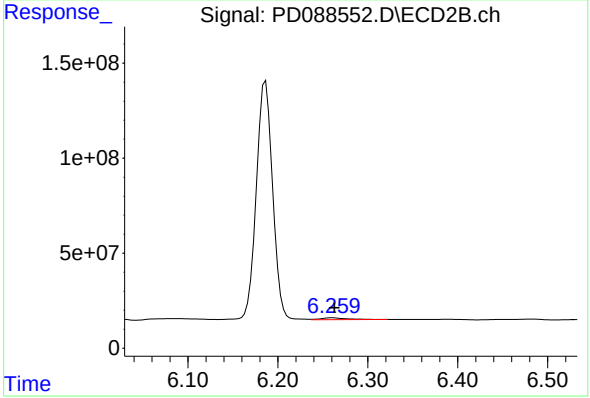
#17 4,4'-DDT

R.T.: 6.186 min
Delta R.T.: -0.002 min
Response: 1588602250
Conc: 93.36 ng/ml



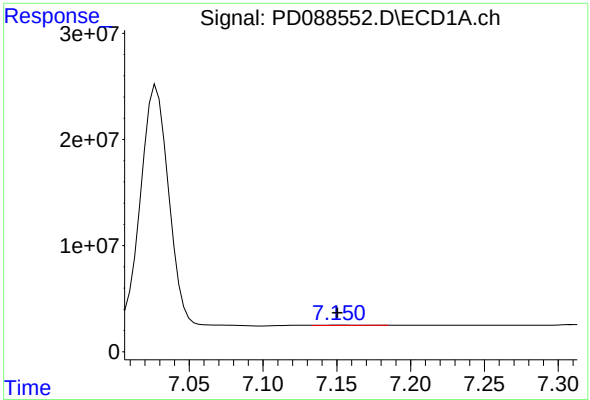
#18 Endrin aldehyde

R.T.: 6.923 min
Delta R.T.: 0.007 min
Response: 1361787
Conc: 0.59 ng/ml



#18 Endrin aldehyde

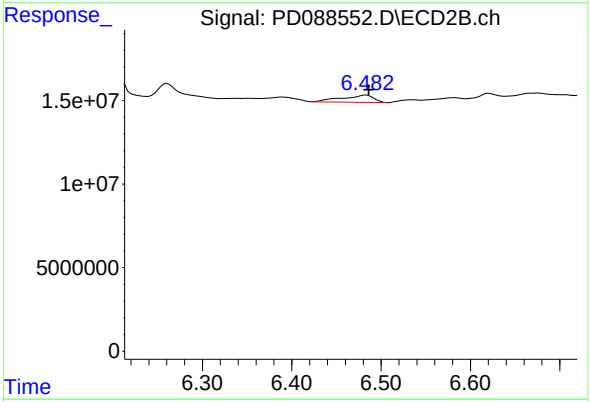
R.T.: 6.261 min
Delta R.T.: -0.002 min
Response: 18660914
Conc: 1.40 ng/ml



#19 Endosulfan Sulfate

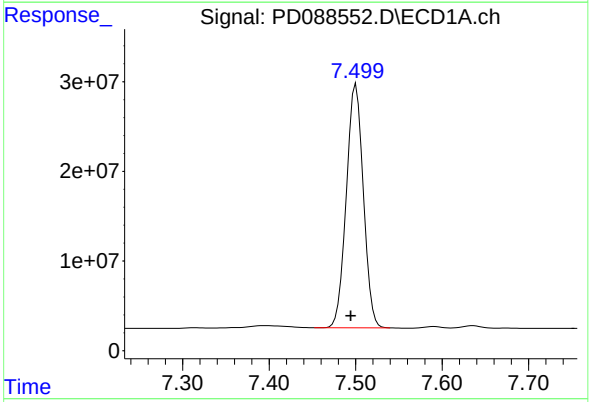
R.T.: 7.151 min
Delta R.T.: 0.000 min
Response: 525306
Conc: 0.18 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



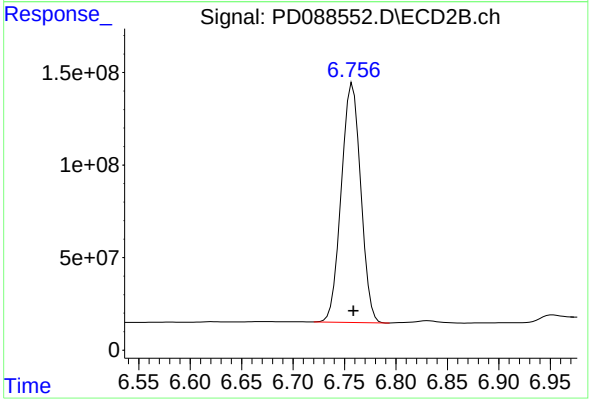
#19 Endosulfan Sulfate

R.T.: 6.483 min
Delta R.T.: -0.003 min
Response: 10729263
Conc: 0.63 ng/ml



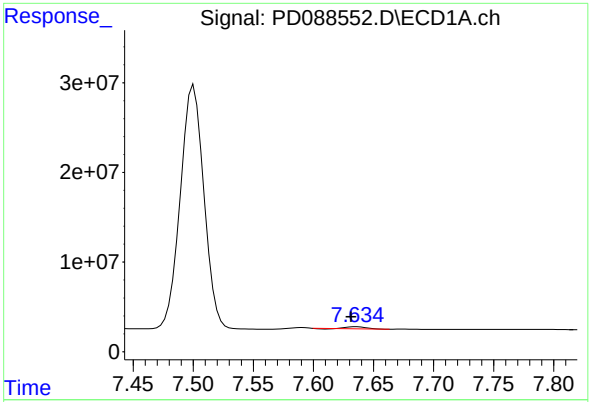
#20 Methoxychlor

R.T.: 7.500 min
Delta R.T.: 0.006 min
Response: 370551685
Conc: 247.11 ng/ml



#20 Methoxychlor

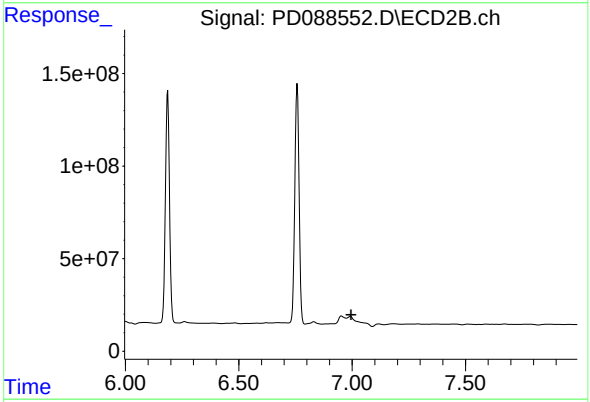
R.T.: 6.758 min
Delta R.T.: 0.000 min
Response: 1701019683
Conc: 186.49 ng/ml



#21 Endrin ketone

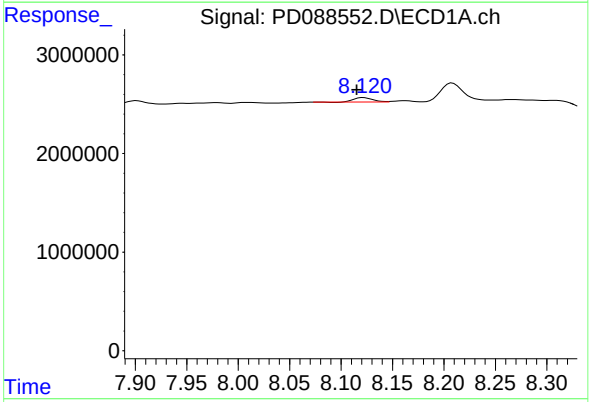
R.T.: 7.636 min
Delta R.T.: 0.004 min
Response: 2233833
Conc: 0.72 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



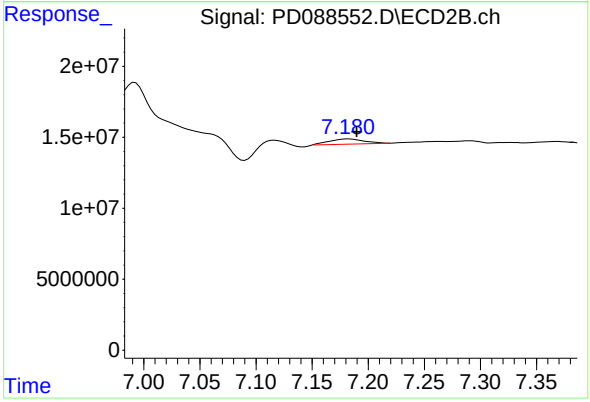
#21 Endrin ketone

R.T.: 6.992 min
Delta R.T.: -0.003 min
Response: -1165927
Conc: N.D.



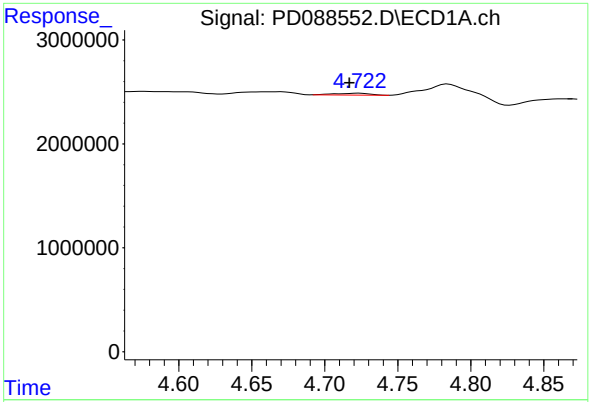
#22 Mirex

R.T.: 8.122 min
Delta R.T.: 0.007 min
Response: 576251
Conc: 0.25 ng/ml



#22 Mirex

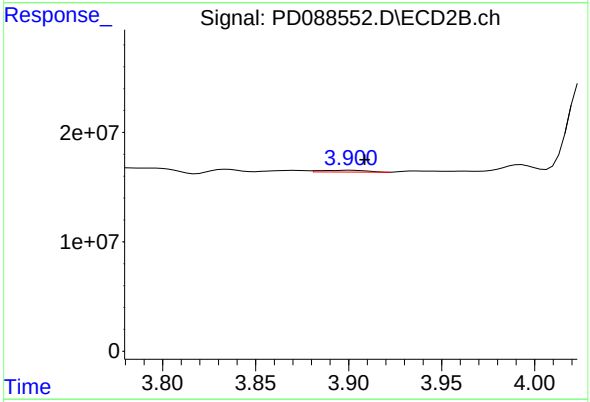
R.T.: 7.182 min
Delta R.T.: -0.008 min
Response: 7919070
Conc: 0.53 ng/ml



#23 Chlordane-1

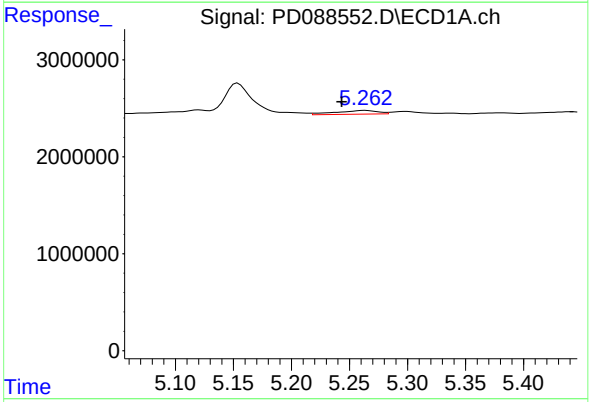
R.T.: 4.724 min
Delta R.T.: 0.007 min
Response: 298000
Conc: 1.79 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



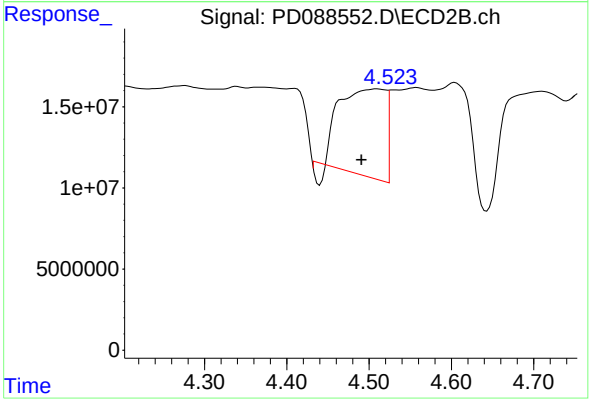
#23 Chlordane-1

R.T.: 3.901 min
Delta R.T.: -0.008 min
Response: 2890947
Conc: 3.61 ng/ml



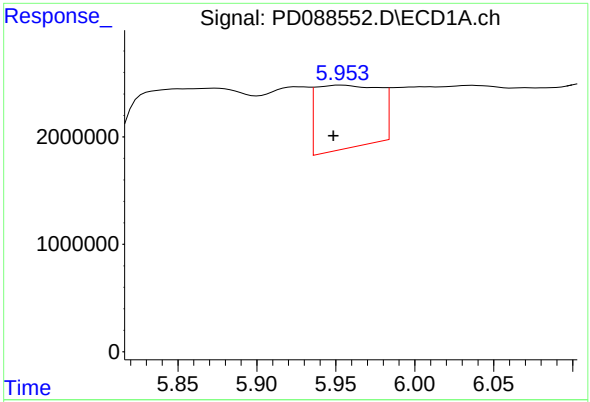
#24 Chlordane-2

R.T.: 5.263 min
Delta R.T.: 0.020 min
Response: 969616
Conc: 5.82 ng/ml



#24 Chlordane-2

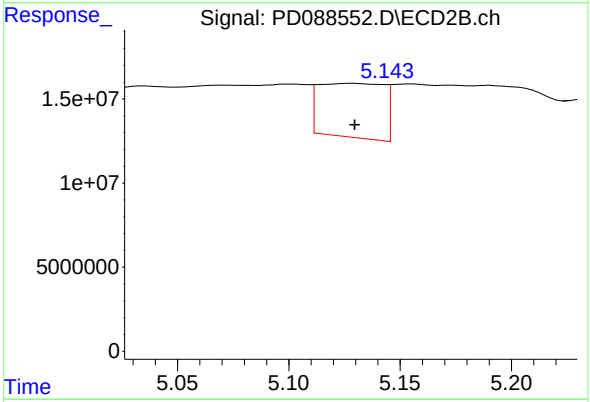
R.T.: 4.509 min
Delta R.T.: 0.018 min
Response: 201937254
Conc: 244.68 ng/ml



#25 Chlordane-3

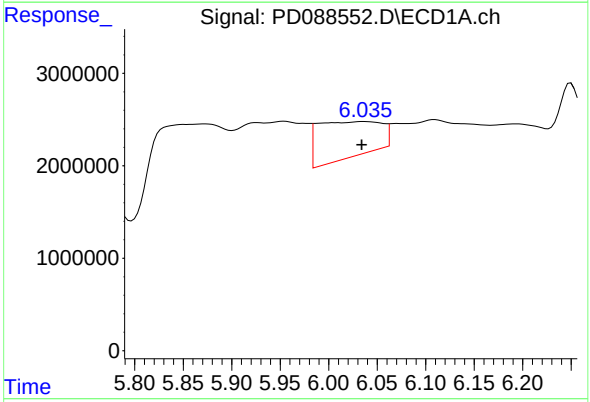
R.T.: 5.954 min
Delta R.T.: 0.006 min
Response: 16338961
Conc: 24.22 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



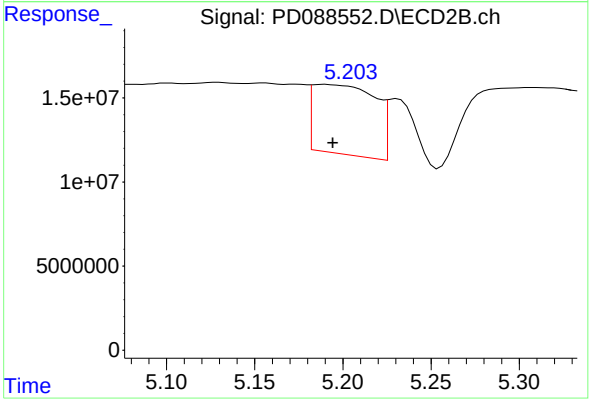
#25 Chlordane-3

R.T.: 5.129 min
Delta R.T.: 0.000 min
Response: 65201640
Conc: 25.78 ng/ml



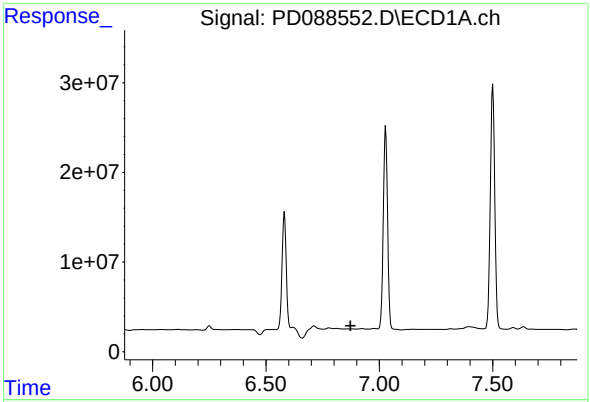
#26 Chlordane-4

R.T.: 6.036 min
Delta R.T.: 0.002 min
Response: 17581477
Conc: 21.56 ng/ml



#26 Chlordane-4

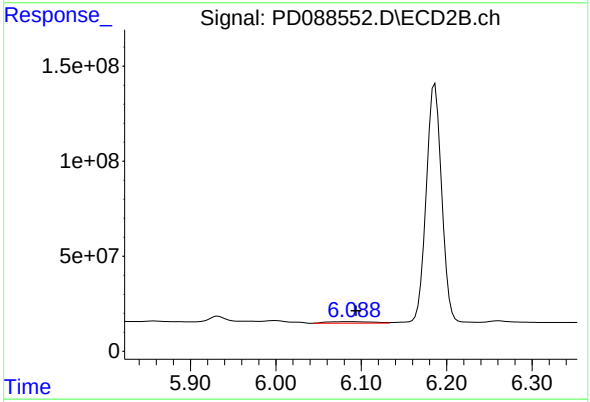
R.T.: 5.190 min
Delta R.T.: -0.004 min
Response: 101879282
Conc: 47.65 ng/ml



#27 Chlordane-5

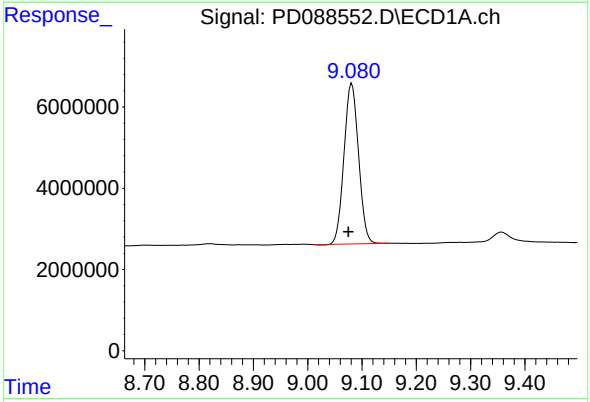
R.T.: 0.000 min
Exp R.T. : 6.873 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
PEM



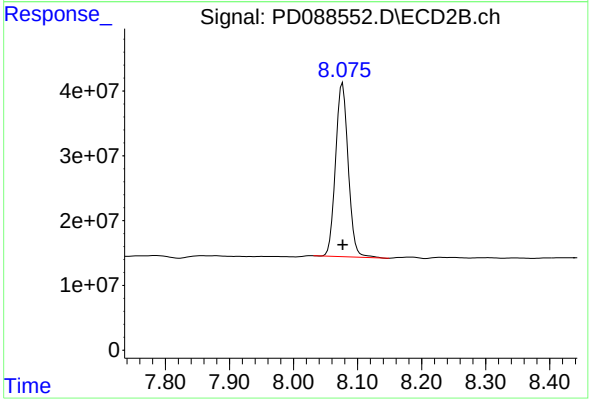
#27 Chlordane-5

R.T.: 6.088 min
Delta R.T.: -0.006 min
Response: 30369926
Conc: 31.45 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.081 min
Delta R.T.: 0.006 min
Response: 73616746
Conc: 22.25 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.077 min
Delta R.T.: 0.000 min
Response: 367017270
Conc: 19.86 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088559.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 12:52
Operator : AR\AJ
Sample : Q1984-01MS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:17:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	System Monitoring Compounds							
1)	SA Tetrachlo...	3.552	2.882	42022681	300.2E6	21.039	20.529	
28)	SA Decachlor...	9.077	8.075	69954709	340.9E6	21.146	18.450	
	Target Compounds							
2)	A alpha-BHC	4.001	3.395	242.8E6	1145.1E6	56.302	50.090	
3)	MA gamma-BHC...	4.332	3.731	239.9E6	1044.4E6	57.288	48.490	
4)	MA Heptachlor	4.932	4.085	234.9E6	1078.0E6	58.169	50.376	
5)	MB Aldrin	5.274	4.370	230.5E6	1022.4E6	58.367	49.150	
6)	B beta-BHC	4.517	4.027	89755012	510.2E6	55.289	55.132	
7)	B delta-BHC	4.766	4.264	234.2E6	1055.2E6	56.765	49.630	
8)	B Heptachlo...	5.693	4.875	201.5E6	924.8E6	56.388	48.948	
9)	A Endosulfan I	6.077	5.249	191.2E6	878.2E6	56.623	48.753	
10)	B gamma-Chl...	5.948	5.128	203.8E6	994.2E6	56.261	48.985	
11)	B alpha-Chl...	6.029	5.192	203.7E6	959.2E6	56.428	48.933	
12)	B 4,4'-DDE	6.198	5.377	180.9E6	956.6E6	54.862	48.572	
13)	MA Dieldrin	6.350	5.515	204.2E6	976.0E6	57.234	48.964	
14)	MA Endrin	6.577	5.791	166.5E6	893.2E6	55.835	49.069	
15)	B Endosulfa...	6.789	6.082	169.7E6	843.5E6	54.272	48.139	
16)	A 4,4'-DDD	6.708	5.932	144.6E6	767.5E6	57.484	46.839	
17)	MA 4,4'-DDT	7.024	6.185	152.8E6	833.7E6	55.012	48.993	
18)	B Endrin al...	6.918	6.260	128.2E6	645.4E6	55.557	48.522	
19)	B Endosulfa...	7.151	6.484	157.3E6	804.4E6	54.682	46.949	
20)	A Methoxychlor	7.496	6.757	79835270	434.2E6	53.240	47.604	
21)	B Endrin ke...	7.633	6.994	172.8E6	904.7E6	56.000	48.371	
22)	Mirex	8.117	7.188	125.7E6	675.7E6	53.547	45.590	
23)	Chlordane-1	0.000	3.895	0	52837558	N.D.	65.907	#
24)	Chlordane-2	0.000	4.509	0	5486760	N.D.	6.648	#
25)	Chlordane-3	5.948	5.128	203.8E6	994.2E6	302.109	393.116	#
26)	Chlordane-4	6.029	5.192	203.7E6	959.2E6	249.818	448.623	#
27)	Chlordane-5	0.000	6.082	0	843.5E6	N.D.	873.597	#

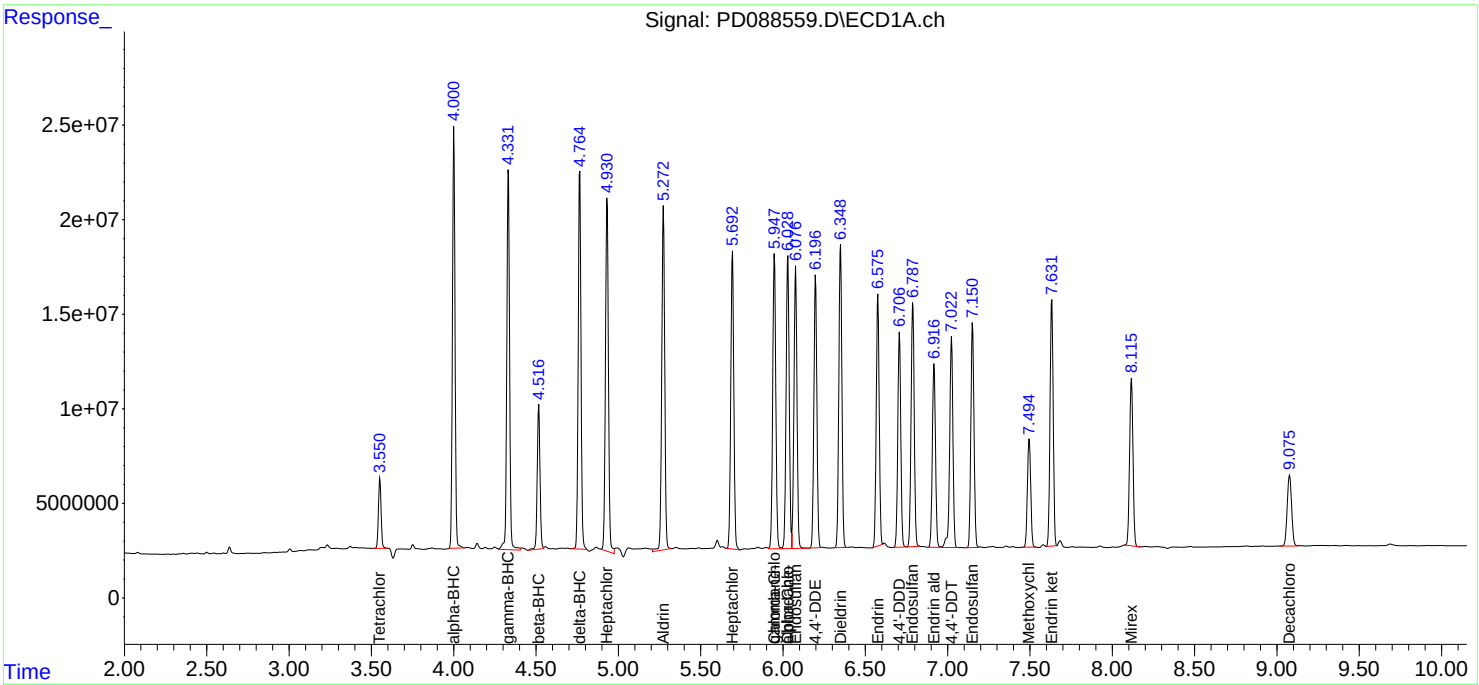
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

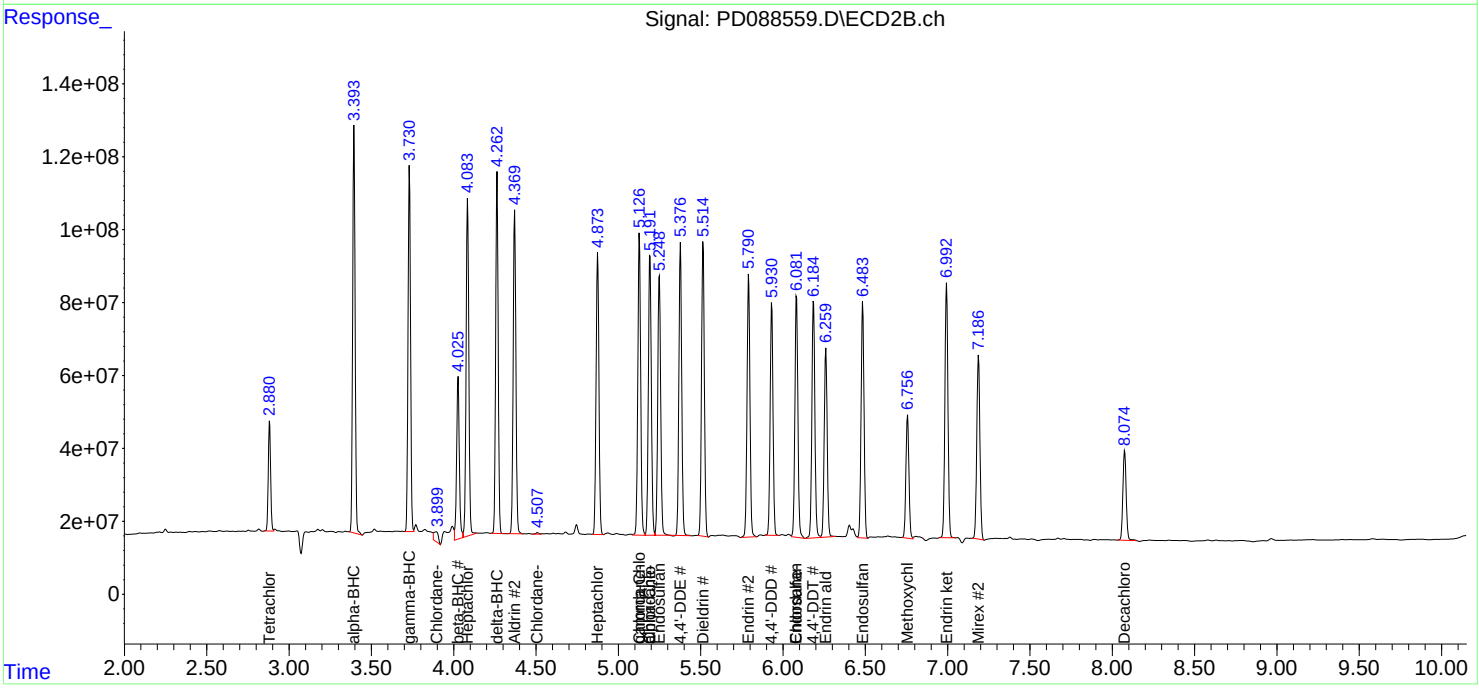
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088559.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 12:52
Operator : AR\AJ
Sample : Q1984-01MS
Misc :
ALS Vial : 10 Sample Multiplier: 1

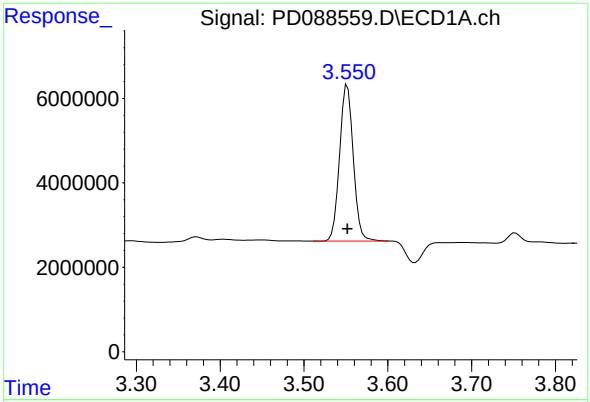
Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:17:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



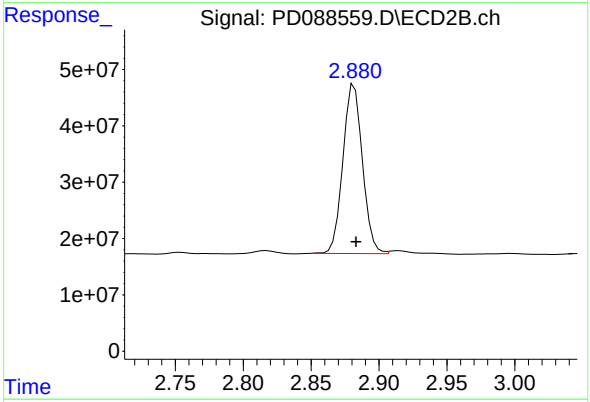




#1 Tetrachloro-m-xylene

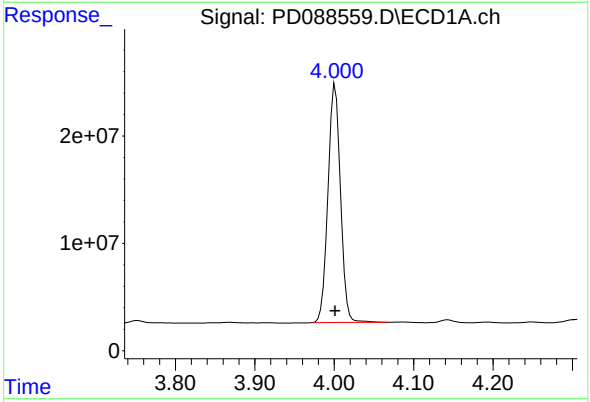
R.T.: 3.552 min
Delta R.T.: 0.000 min
Response: 42022681
Conc: 21.04 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MS



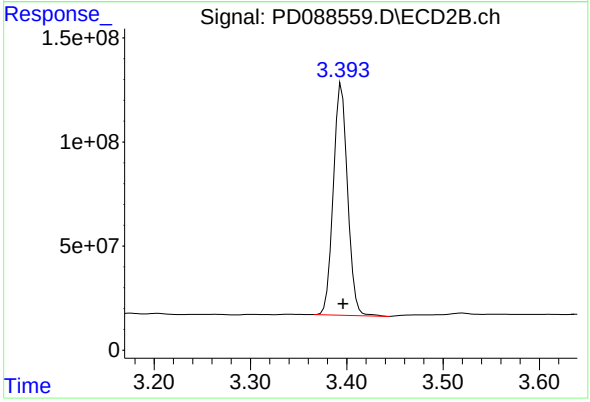
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: -0.001 min
Response: 300160235
Conc: 20.53 ng/ml



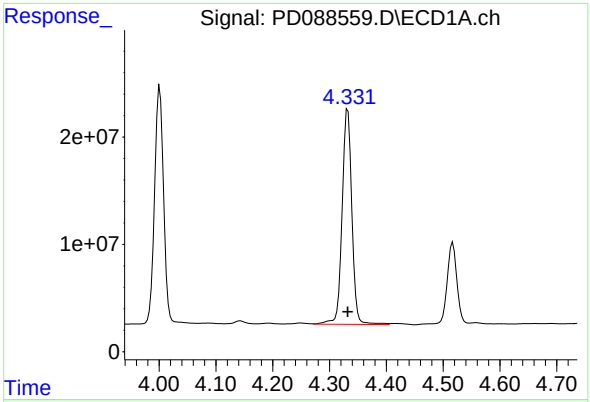
#2 alpha-BHC

R.T.: 4.001 min
Delta R.T.: 0.000 min
Response: 242772753
Conc: 56.30 ng/ml



#2 alpha-BHC

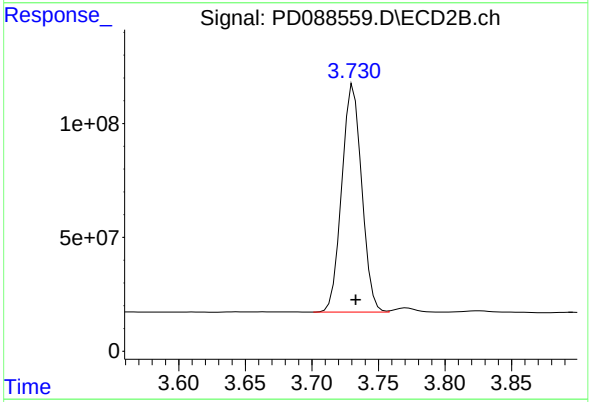
R.T.: 3.395 min
Delta R.T.: -0.001 min
Response: 1145128752
Conc: 50.09 ng/ml



#3 gamma-BHC (Lindane)

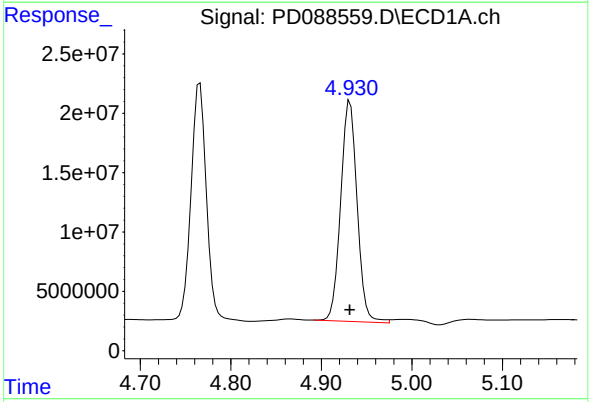
R.T.: 4.332 min
Delta R.T.: 0.000 min
Response: 239892611
Conc: 57.29 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MS



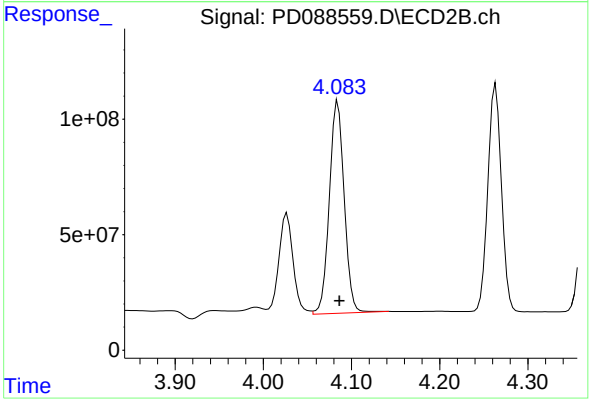
#3 gamma-BHC (Lindane)

R.T.: 3.731 min
Delta R.T.: -0.002 min
Response: 1044415757
Conc: 48.49 ng/ml



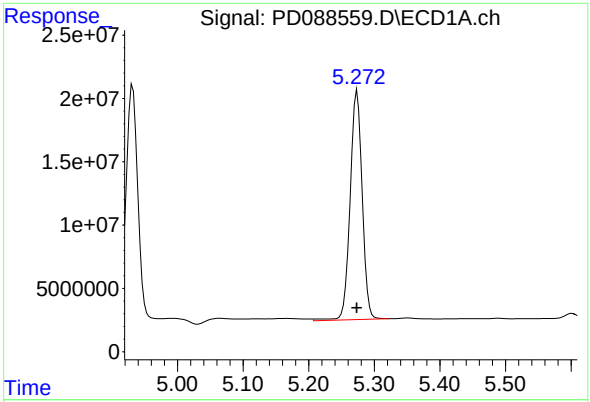
#4 Heptachlor

R.T.: 4.932 min
Delta R.T.: 0.000 min
Response: 234940584
Conc: 58.17 ng/ml



#4 Heptachlor

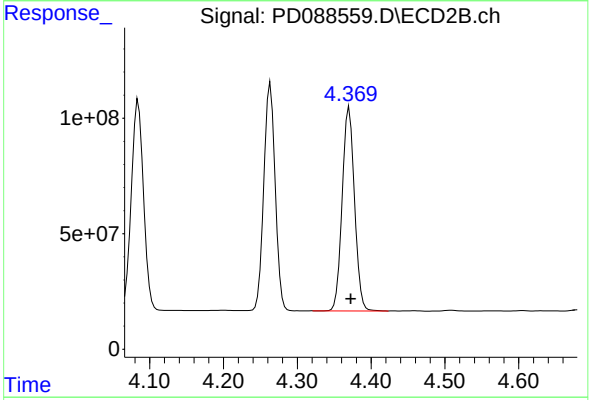
R.T.: 4.085 min
Delta R.T.: -0.002 min
Response: 1077951823
Conc: 50.38 ng/ml



#5 Aldrin

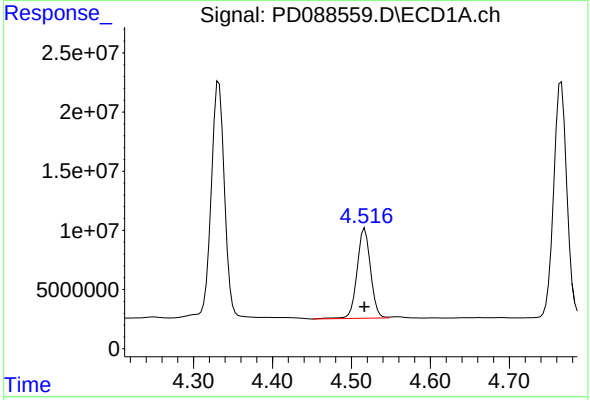
R.T.: 5.274 min
Delta R.T.: 0.000 min
Response: 230526240
Conc: 58.37 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MS



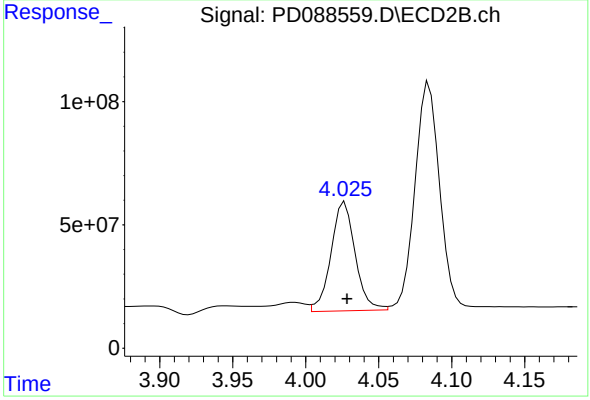
#5 Aldrin

R.T.: 4.370 min
Delta R.T.: -0.002 min
Response: 1022447697
Conc: 49.15 ng/ml



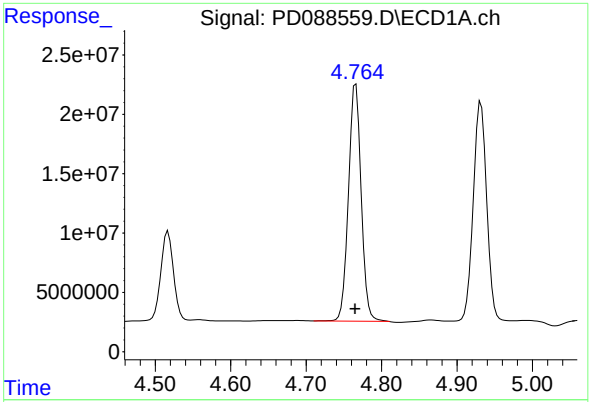
#6 beta-BHC

R.T.: 4.517 min
Delta R.T.: 0.000 min
Response: 89755012
Conc: 55.29 ng/ml



#6 beta-BHC

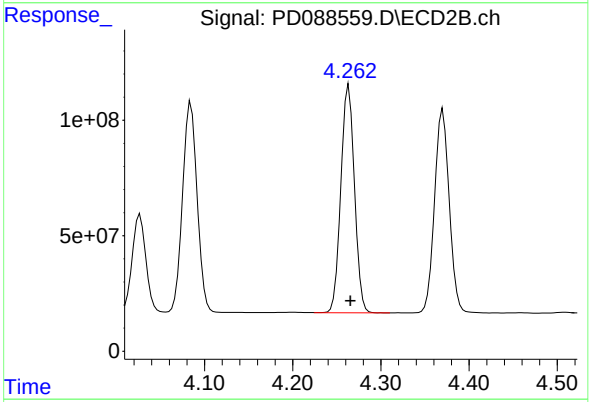
R.T.: 4.027 min
Delta R.T.: -0.002 min
Response: 510202480
Conc: 55.13 ng/ml



#7 delta-BHC

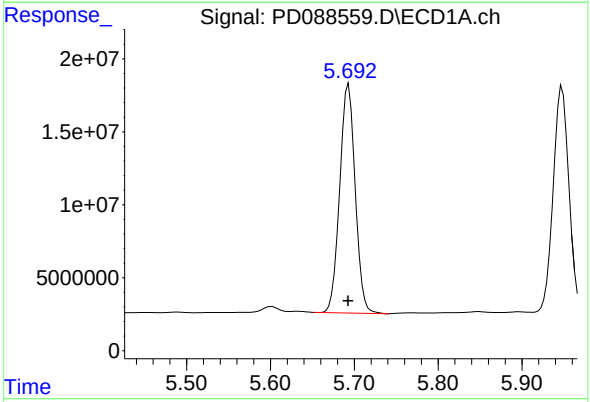
R.T.: 4.766 min
Delta R.T.: 0.000 min
Response: 234153627
Conc: 56.76 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MS



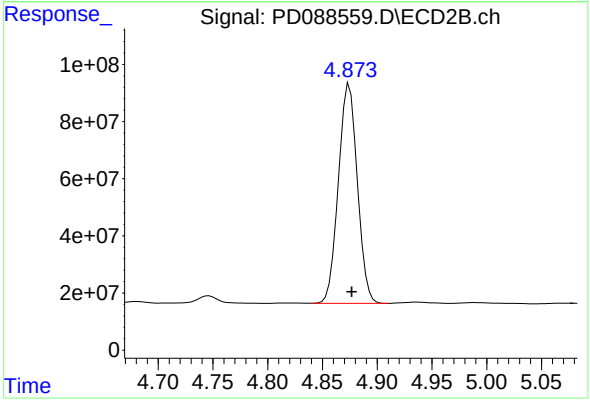
#7 delta-BHC

R.T.: 4.264 min
Delta R.T.: -0.002 min
Response: 1055218492
Conc: 49.63 ng/ml



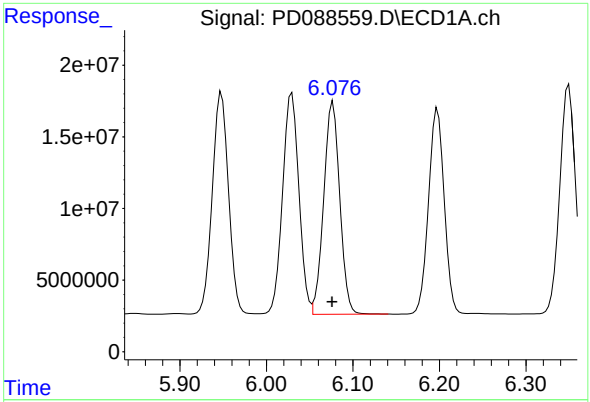
#8 Heptachlor epoxide

R.T.: 5.693 min
Delta R.T.: 0.000 min
Response: 201526689
Conc: 56.39 ng/ml



#8 Heptachlor epoxide

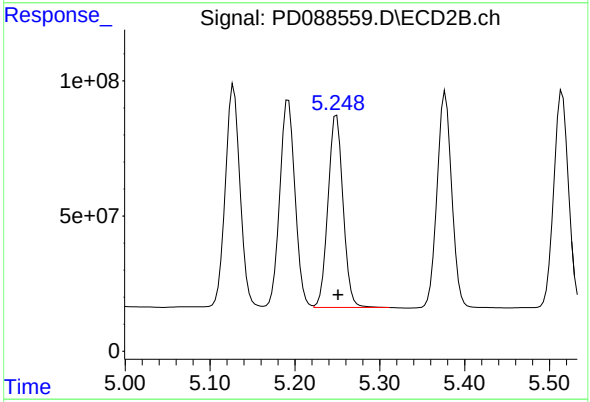
R.T.: 4.875 min
Delta R.T.: -0.002 min
Response: 924829354
Conc: 48.95 ng/ml



#9 Endosulfan I

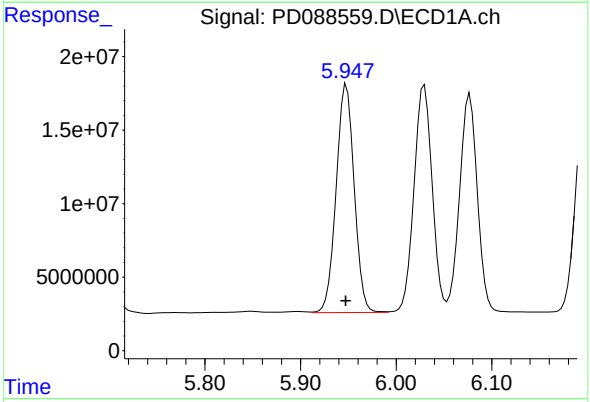
R.T.: 6.077 min
Delta R.T.: 0.001 min
Response: 191224723
Conc: 56.62 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MS



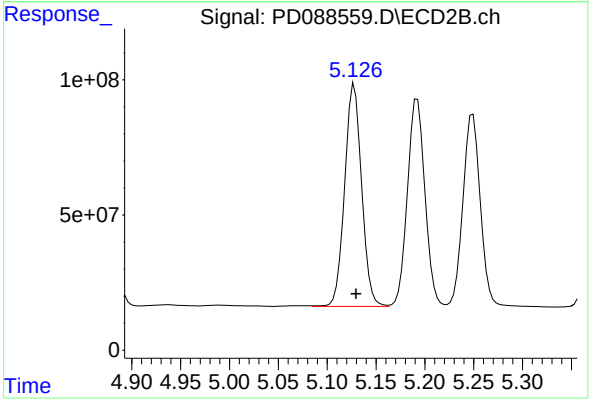
#9 Endosulfan I

R.T.: 5.249 min
Delta R.T.: -0.002 min
Response: 878162647
Conc: 48.75 ng/ml



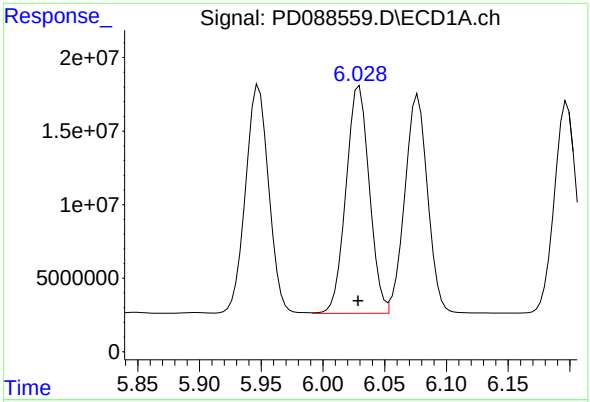
#10 gamma-Chlordane

R.T.: 5.948 min
Delta R.T.: 0.000 min
Response: 203781334
Conc: 56.26 ng/ml



#10 gamma-Chlordane

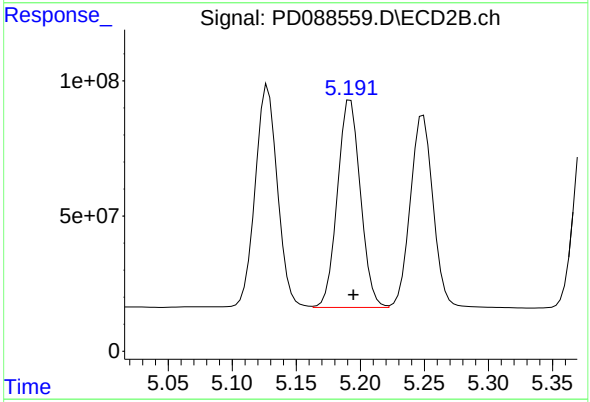
R.T.: 5.128 min
Delta R.T.: -0.002 min
Response: 994207964
Conc: 48.99 ng/ml



#11 alpha-Chlordane

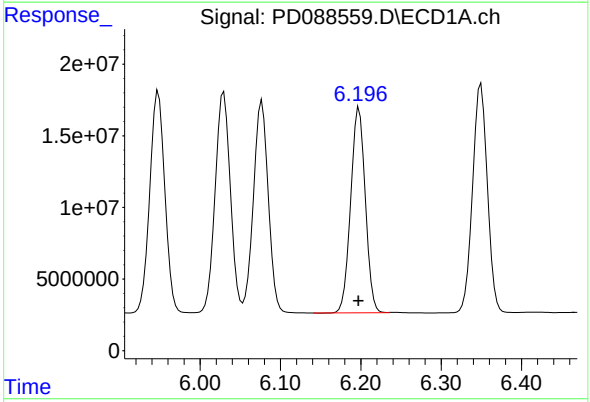
R.T.: 6.029 min
Delta R.T.: 0.000 min
Response: 203682778
Conc: 56.43 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MS



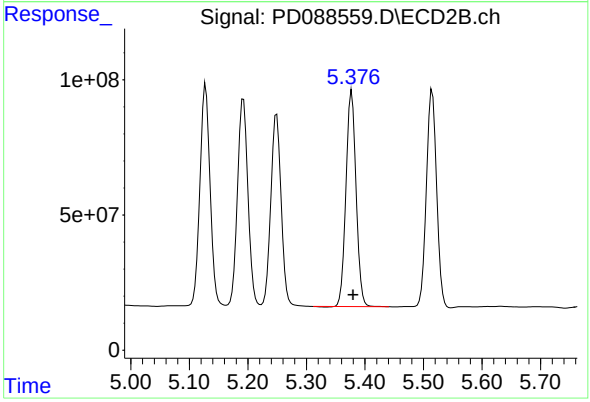
#11 alpha-Chlordane

R.T.: 5.192 min
Delta R.T.: -0.002 min
Response: 959225609
Conc: 48.93 ng/ml



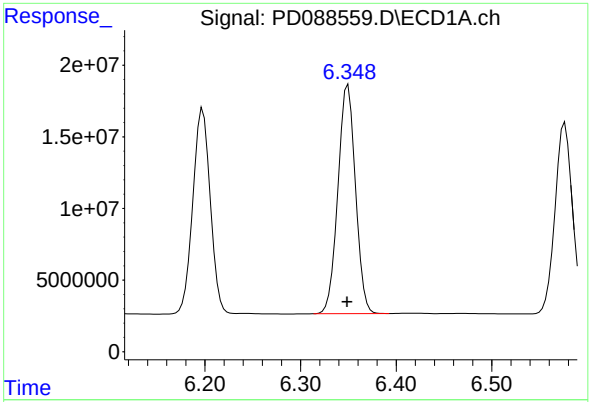
#12 4,4'-DDE

R.T.: 6.198 min
Delta R.T.: 0.000 min
Response: 180948878
Conc: 54.86 ng/ml



#12 4,4'-DDE

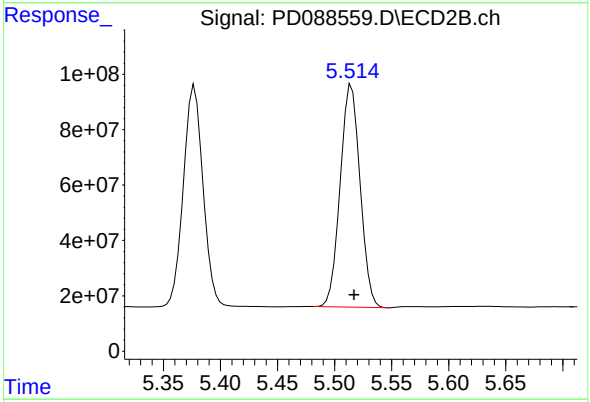
R.T.: 5.377 min
Delta R.T.: -0.002 min
Response: 956585469
Conc: 48.57 ng/ml



#13 Dieldrin

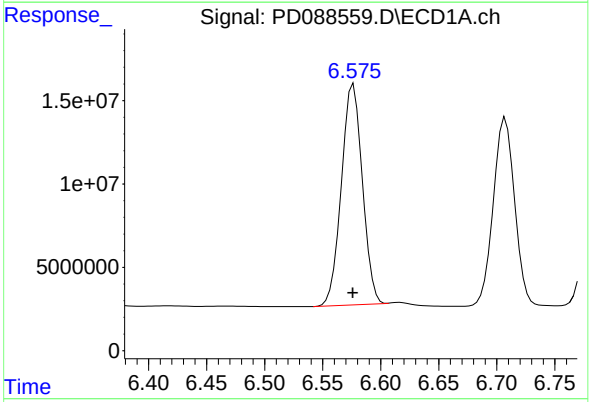
R.T.: 6.350 min
Delta R.T.: 0.001 min
Response: 204239964
Conc: 57.23 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MS



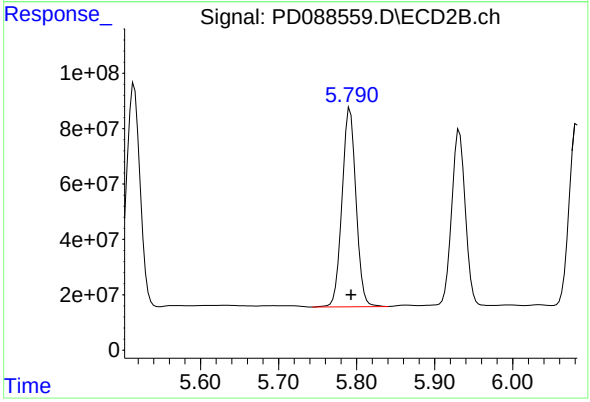
#13 Dieldrin

R.T.: 5.515 min
Delta R.T.: -0.002 min
Response: 976001368
Conc: 48.96 ng/ml



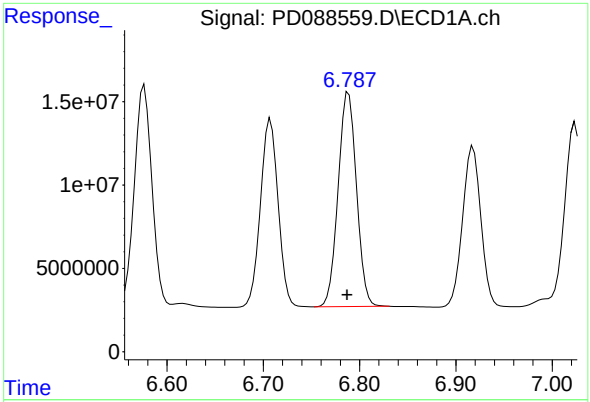
#14 Endrin

R.T.: 6.577 min
Delta R.T.: 0.000 min
Response: 166532304
Conc: 55.84 ng/ml



#14 Endrin

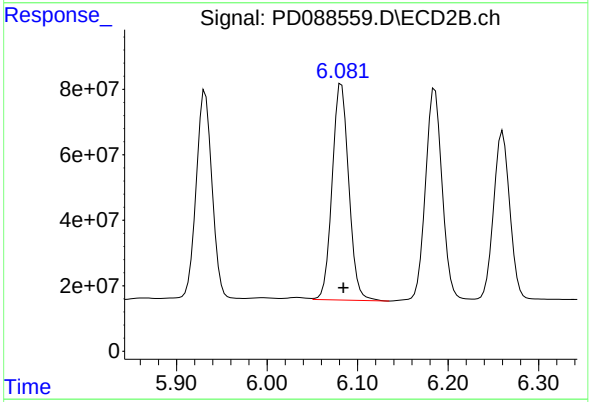
R.T.: 5.791 min
Delta R.T.: -0.001 min
Response: 893167082
Conc: 49.07 ng/ml



#15 Endosulfan II

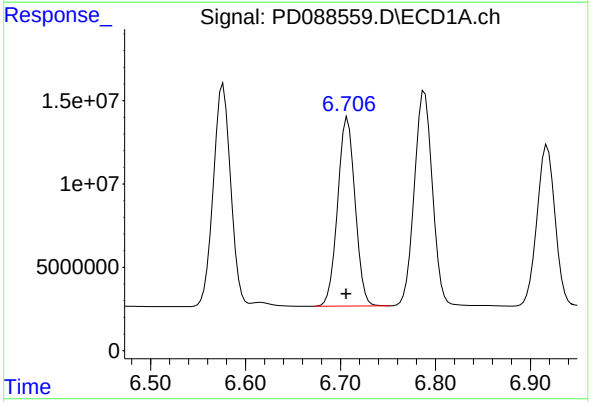
R.T.: 6.789 min
Delta R.T.: 0.002 min
Response: 169664931
Conc: 54.27 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MS



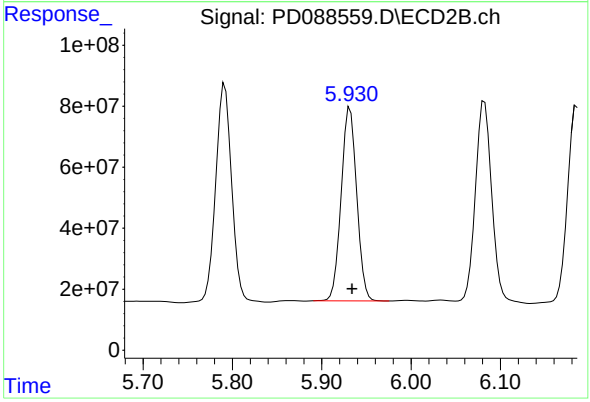
#15 Endosulfan II

R.T.: 6.082 min
Delta R.T.: -0.002 min
Response: 843479461
Conc: 48.14 ng/ml



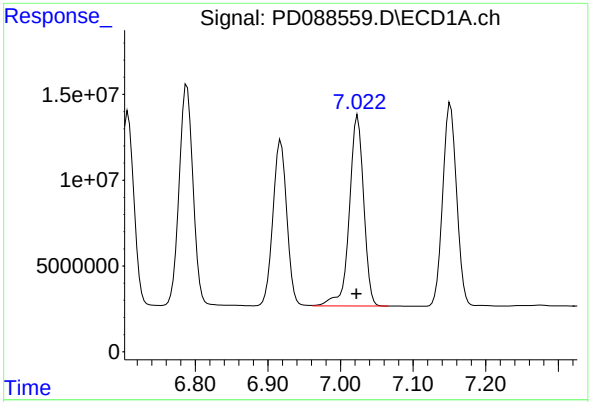
#16 4,4'-DDD

R.T.: 6.708 min
Delta R.T.: 0.002 min
Response: 144569372
Conc: 57.48 ng/ml



#16 4,4'-DDD

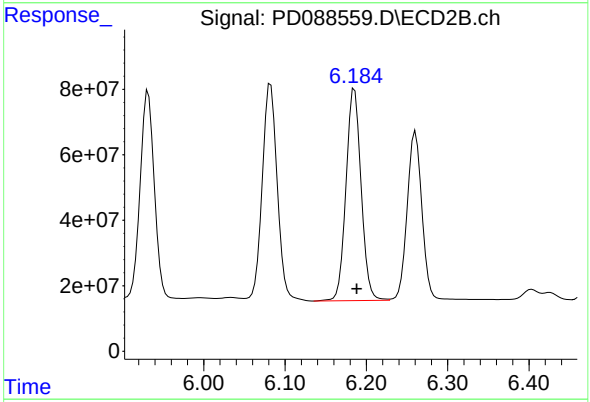
R.T.: 5.932 min
Delta R.T.: -0.002 min
Response: 767518922
Conc: 46.84 ng/ml



#17 4,4'-DDT

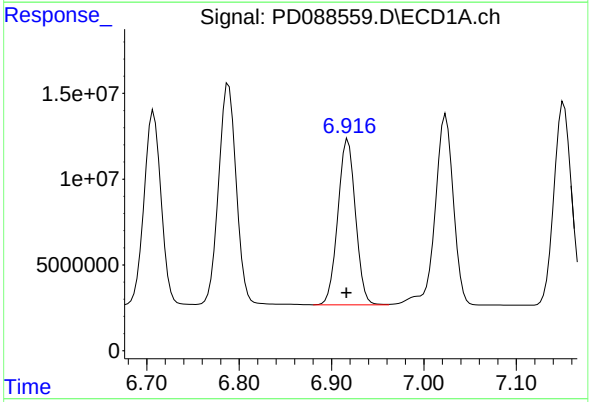
R.T.: 7.024 min
Delta R.T.: 0.002 min
Response: 152797749
Conc: 55.01 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MS



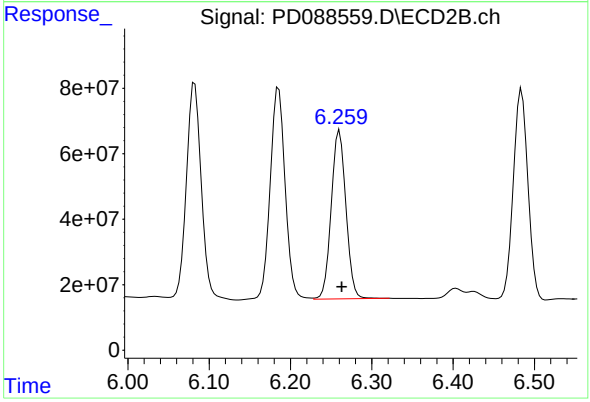
#17 4,4'-DDT

R.T.: 6.185 min
Delta R.T.: -0.003 min
Response: 833696881
Conc: 48.99 ng/ml



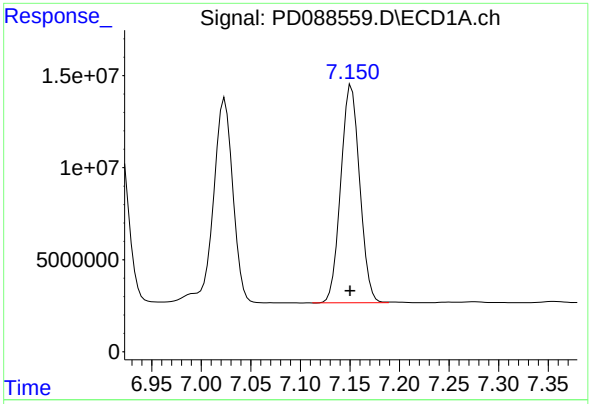
#18 Endrin aldehyde

R.T.: 6.918 min
Delta R.T.: 0.002 min
Response: 128225449
Conc: 55.56 ng/ml



#18 Endrin aldehyde

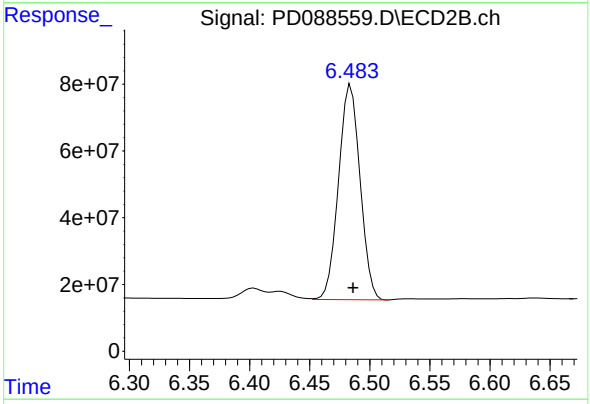
R.T.: 6.260 min
Delta R.T.: -0.002 min
Response: 645386078
Conc: 48.52 ng/ml



#19 Endosulfan Sulfate

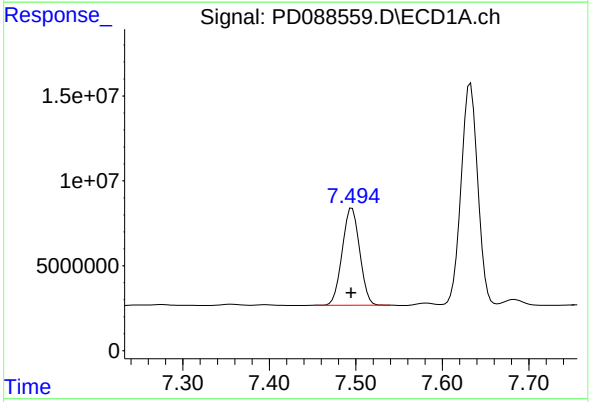
R.T.: 7.151 min
Delta R.T.: 0.001 min
Response: 157256980
Conc: 54.68 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MS



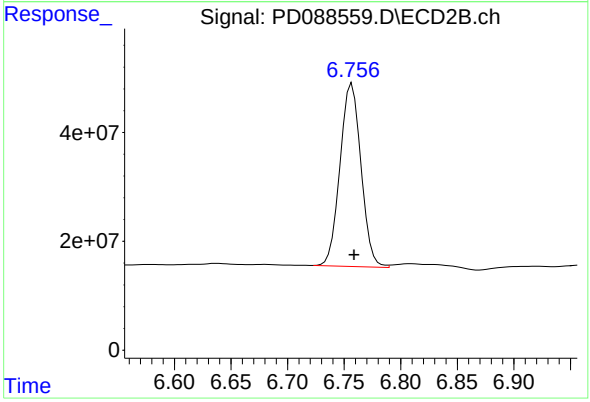
#19 Endosulfan Sulfate

R.T.: 6.484 min
Delta R.T.: -0.002 min
Response: 804395560
Conc: 46.95 ng/ml



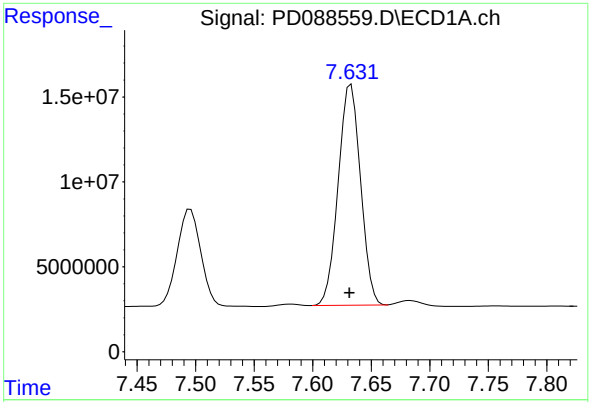
#20 Methoxychlor

R.T.: 7.496 min
Delta R.T.: 0.000 min
Response: 79835270
Conc: 53.24 ng/ml



#20 Methoxychlor

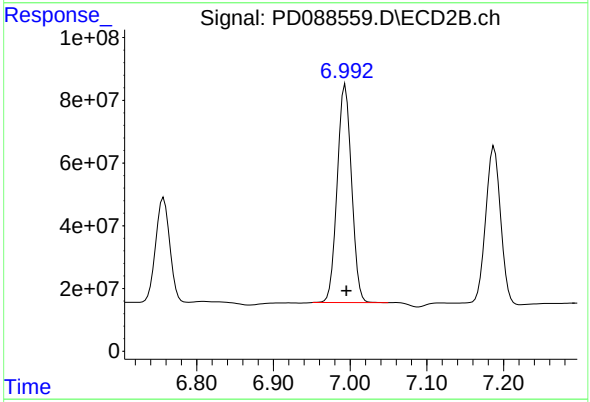
R.T.: 6.757 min
Delta R.T.: -0.002 min
Response: 434195480
Conc: 47.60 ng/ml



#21 Endrin ketone

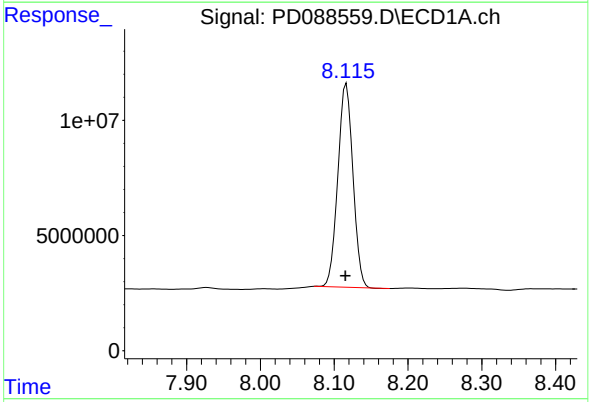
R.T.: 7.633 min
Delta R.T.: 0.001 min
Response: 172848714
Conc: 56.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MS



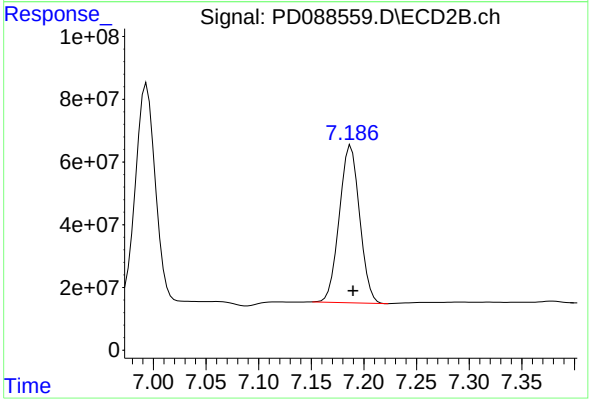
#21 Endrin ketone

R.T.: 6.994 min
Delta R.T.: -0.002 min
Response: 904730667
Conc: 48.37 ng/ml



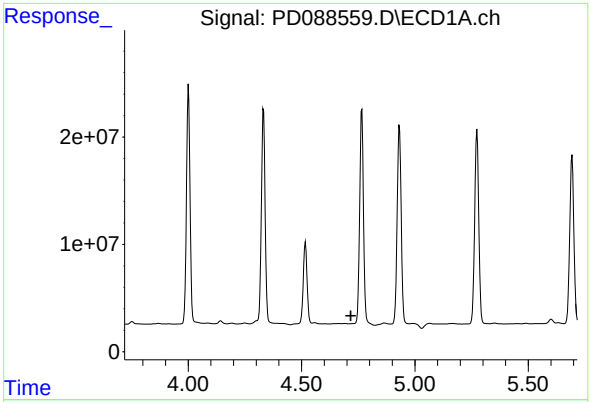
#22 Mirex

R.T.: 8.117 min
Delta R.T.: 0.001 min
Response: 125744874
Conc: 53.55 ng/ml



#22 Mirex

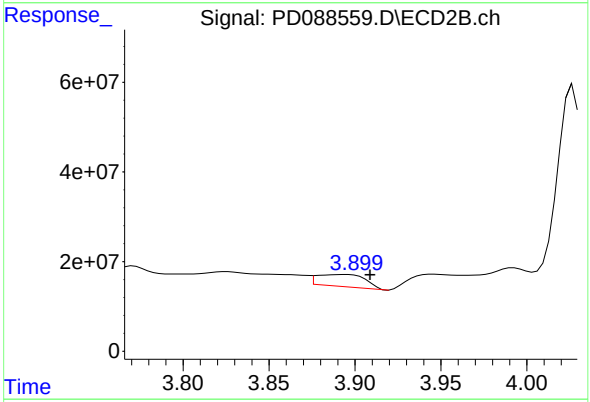
R.T.: 7.188 min
Delta R.T.: -0.002 min
Response: 675692352
Conc: 45.59 ng/ml



#23 Chlordane-1

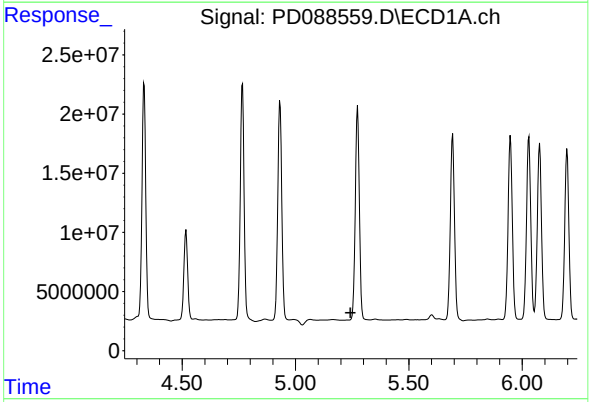
R.T.: 0.000 min
Exp R.T. : 4.717 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MS



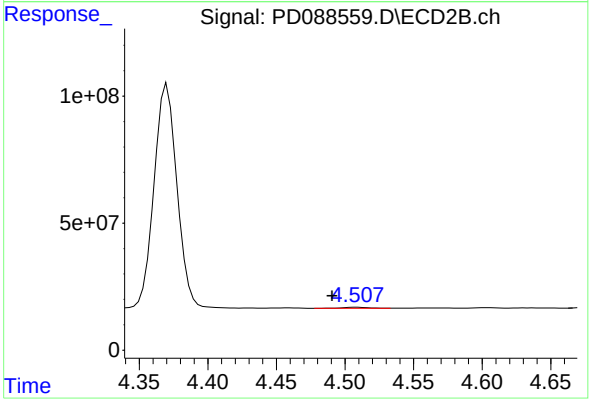
#23 Chlordane-1

R.T.: 3.895 min
Delta R.T.: -0.013 min
Response: 52837558
Conc: 65.91 ng/ml



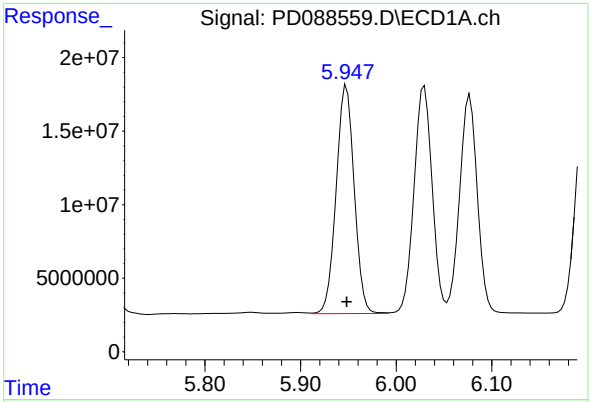
#24 Chlordane-2

R.T.: 0.000 min
Exp R.T. : 5.243 min
Response: 0
Conc: N.D.



#24 Chlordane-2

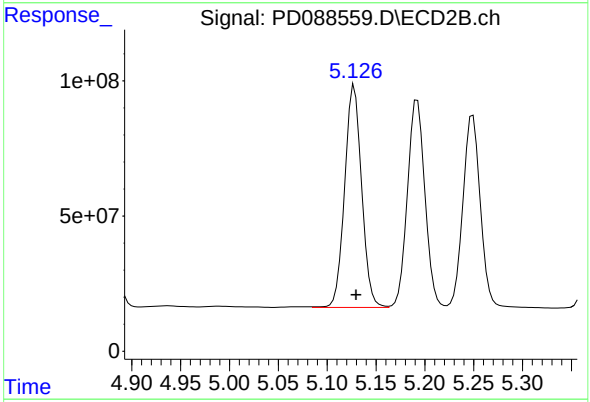
R.T.: 4.509 min
Delta R.T.: 0.018 min
Response: 5486760
Conc: 6.65 ng/ml



#25 Chlordane-3

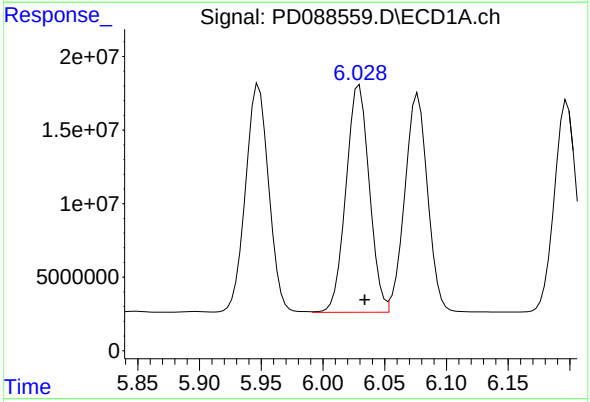
R.T.: 5.948 min
Delta R.T.: 0.000 min
Response: 203781334
Conc: 302.11 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MS



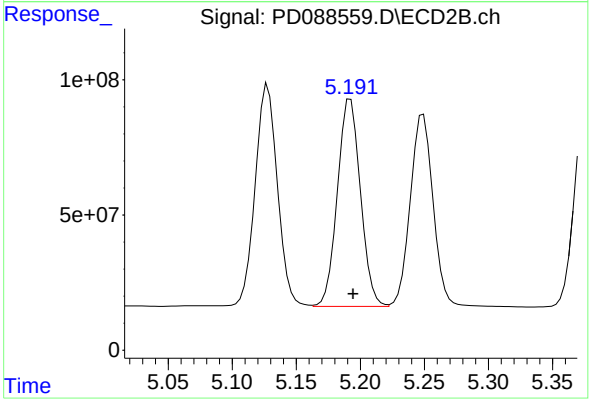
#25 Chlordane-3

R.T.: 5.128 min
Delta R.T.: -0.002 min
Response: 994207964
Conc: 393.12 ng/ml



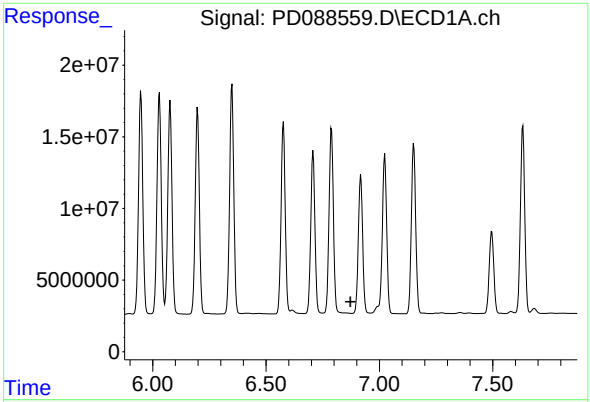
#26 Chlordane-4

R.T.: 6.029 min
Delta R.T.: -0.005 min
Response: 203682778
Conc: 249.82 ng/ml



#26 Chlordane-4

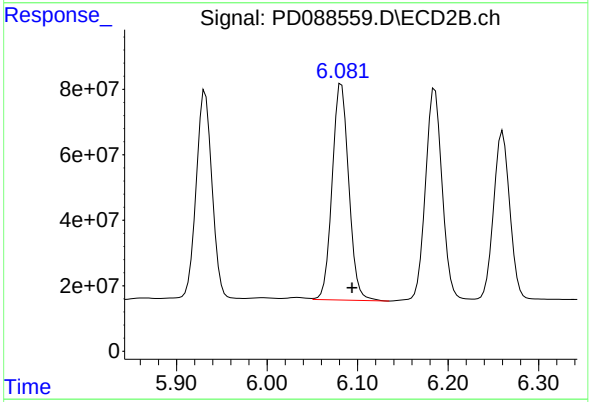
R.T.: 5.192 min
Delta R.T.: -0.002 min
Response: 959225609
Conc: 448.62 ng/ml



#27 Chlordane-5

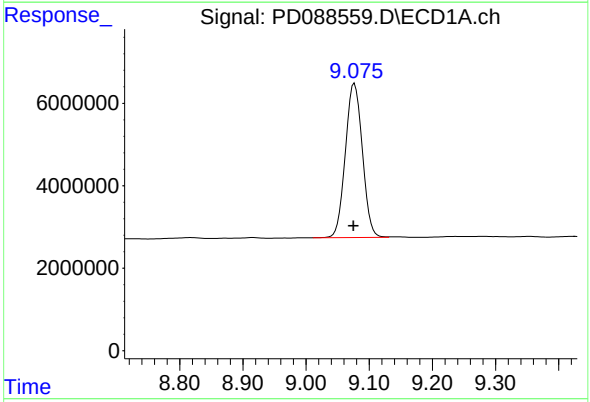
R.T.: 0.000 min
Exp R.T. : 6.873 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MS



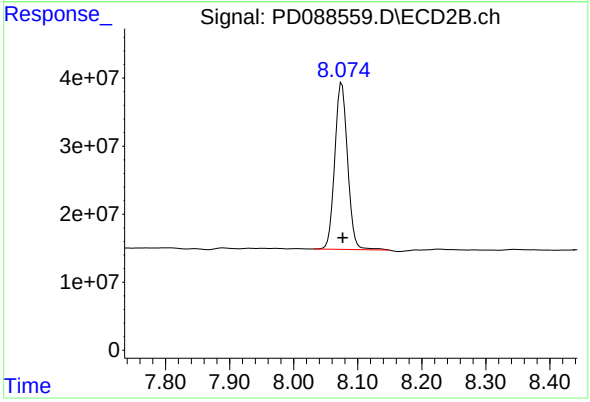
#27 Chlordane-5

R.T.: 6.082 min
Delta R.T.: -0.012 min
Response: 843479461
Conc: 873.60 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.077 min
Delta R.T.: 0.002 min
Response: 69954709
Conc: 21.15 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.002 min
Response: 340947377
Conc: 18.45 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088560.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 13:05
Operator : AR\AJ
Sample : Q1984-01MSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:18:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	System Monitoring Compounds							
1)	SA Tetrachlo...	3.551	2.882	42713352	306.3E6	21.385	20.946	
28)	SA Decachlor...	9.076	8.074	70211275	348.9E6	21.224	18.880	
	Target Compounds							
2)	A alpha-BHC	4.000	3.395	245.5E6	1160.4E6	56.936	50.758	
3)	MA gamma-BHC...	4.331	3.731	242.7E6	1059.7E6	57.961	49.200	
4)	MA Heptachlor	4.931	4.085	238.9E6	1091.4E6	59.160	51.002	
5)	MB Aldrin	5.273	4.370	230.1E6	1039.5E6	58.268	49.969	
6)	B beta-BHC	4.516	4.027	90626662	516.3E6	55.826	55.791	
7)	B delta-BHC	4.765	4.263	235.8E6	1068.5E6	57.162	50.254	
8)	B Heptachlo...	5.692	4.874	201.8E6	936.3E6	56.477	49.556	
9)	A Endosulfan I	6.076	5.249	192.9E6	893.5E6	57.109	49.602	
10)	B gamma-Chl...	5.947	5.127	204.9E6	1005.2E6	56.566	49.527	
11)	B alpha-Chl...	6.029	5.192	205.3E6	971.4E6	56.866	49.555	
12)	B 4,4'-DDE	6.198	5.377	183.2E6	973.8E6	55.551	49.445	
13)	MA Dieldrin	6.349	5.514	206.1E6	991.8E6	57.747	49.759	
14)	MA Endrin	6.576	5.791	168.4E6	904.9E6	56.457	49.711	
15)	B Endosulfa...	6.788	6.082	171.1E6	839.9E6	54.742	47.936	
16)	A 4,4'-DDD	6.706	5.932	145.9E6	783.4E6	58.021	47.808	
17)	MA 4,4'-DDT	7.023	6.185	154.1E6	829.9E6	55.472	48.773	
18)	B Endrin al...	6.916	6.261	129.0E6	647.3E6	55.900	48.667	
19)	B Endosulfa...	7.151	6.484	159.4E6	826.0E6	55.441	48.209	
20)	A Methoxychlor	7.494	6.757	80457383	437.0E6	53.655	47.911	
21)	B Endrin ke...	7.631	6.993	173.7E6	917.4E6	56.270	49.050	
22)	Mirex	8.115	7.187	125.8E6	690.2E6	53.561	46.572	
23)	Chlordane-1	4.688f	3.894	330560	50896007	1.990	63.485	#
24)	Chlordane-2	5.221f	4.508	2430178	8105040	14.593	9.821	#
25)	Chlordane-3	5.947	5.127	204.9E6	1005.2E6	303.744	397.463	#
26)	Chlordane-4	6.029	5.192	205.3E6	971.4E6	251.753	454.323	#
27)	Chlordane-5	0.000	6.082	0	839.9E6	N.D.	869.901	#

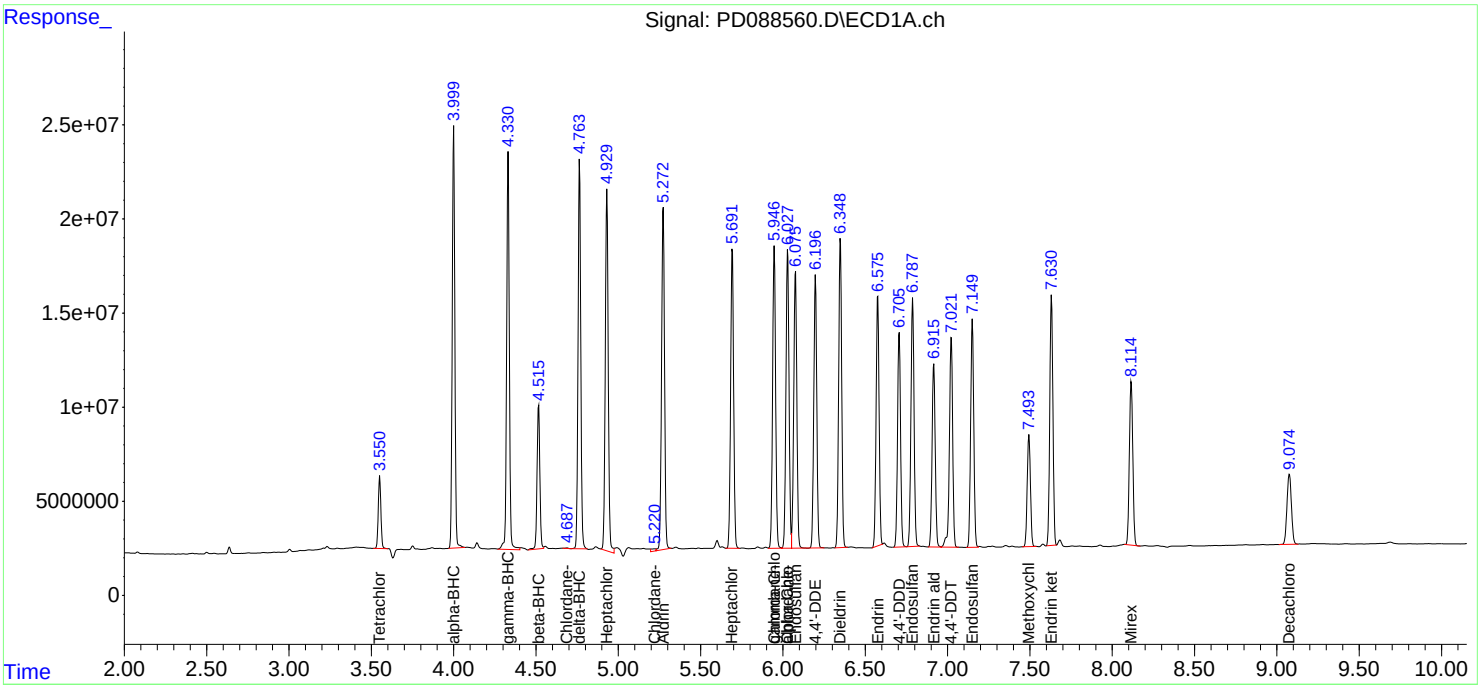
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

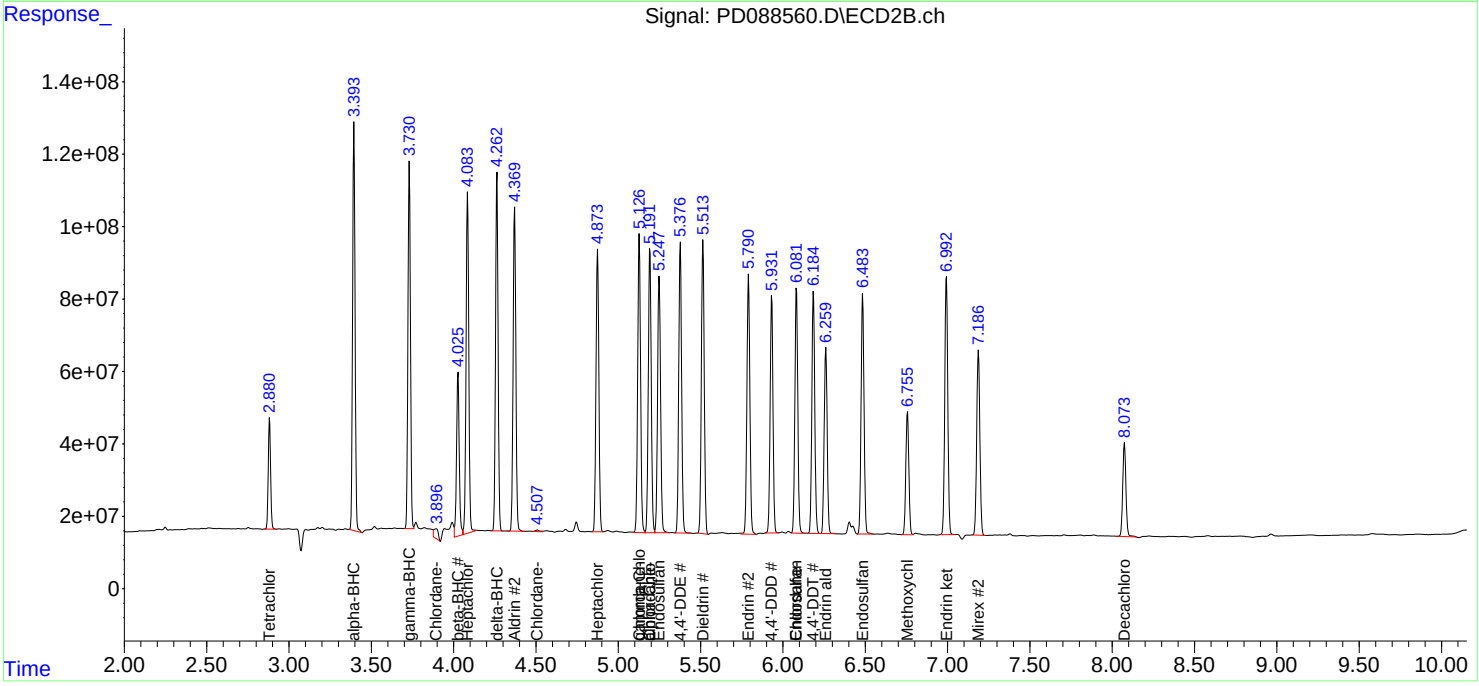
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088560.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 13:05
Operator : AR\AJ
Sample : Q1984-01MSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

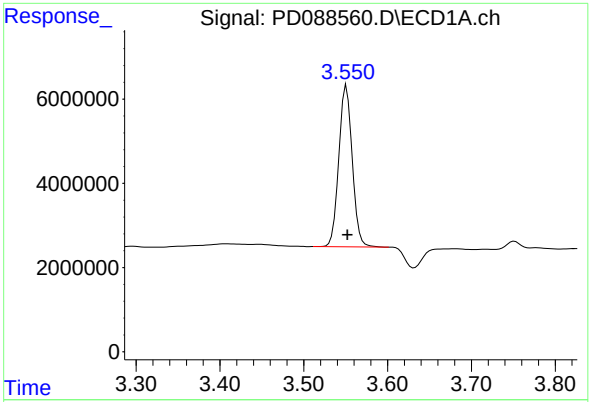
Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:18:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



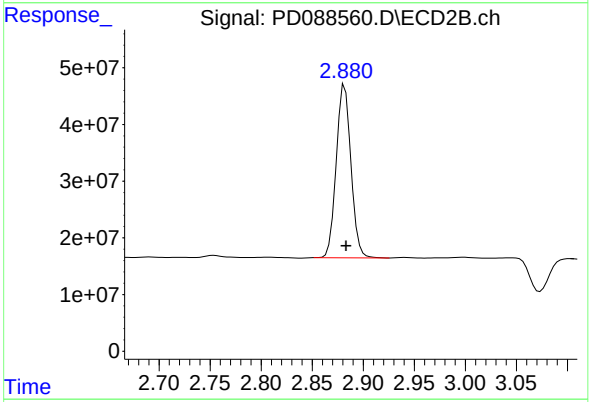




#1 Tetrachloro-m-xylene

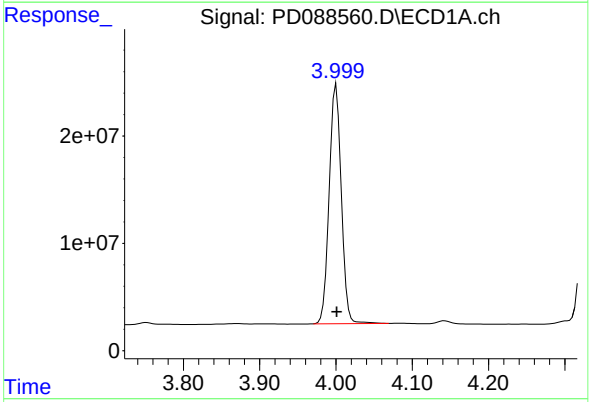
R.T.: 3.551 min
Delta R.T.: -0.001 min
Response: 42713352
Conc: 21.38 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MSD



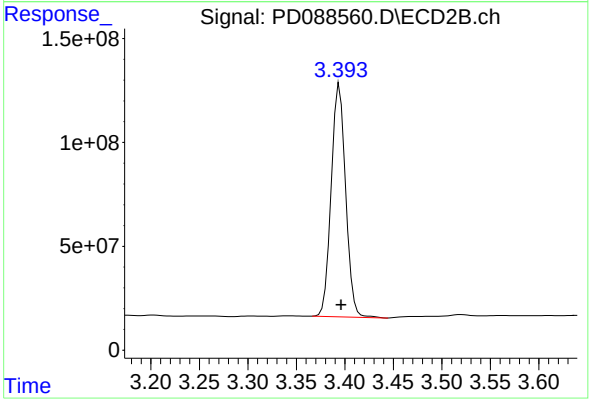
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: -0.001 min
Response: 306268196
Conc: 20.95 ng/ml



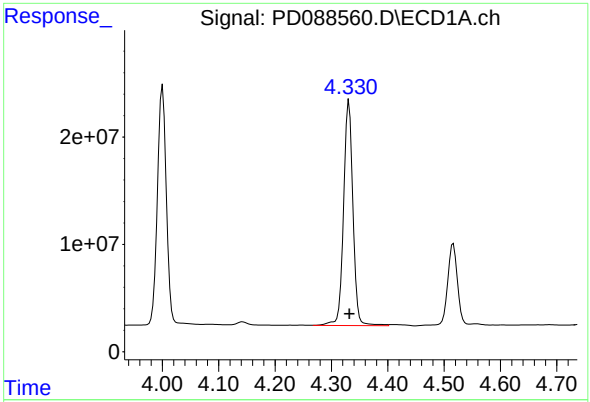
#2 alpha-BHC

R.T.: 4.000 min
Delta R.T.: 0.000 min
Response: 245506242
Conc: 56.94 ng/ml



#2 alpha-BHC

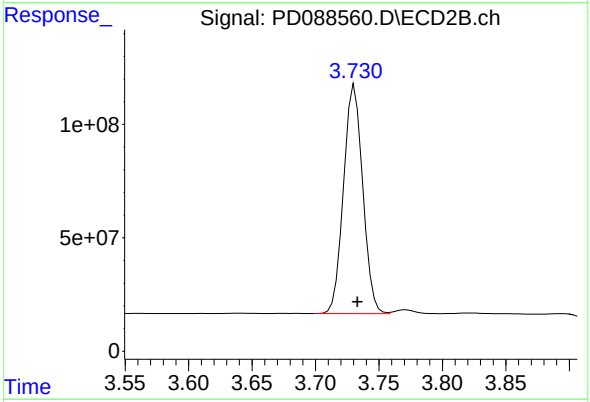
R.T.: 3.395 min
Delta R.T.: -0.002 min
Response: 1160413093
Conc: 50.76 ng/ml



#3 gamma-BHC (Lindane)

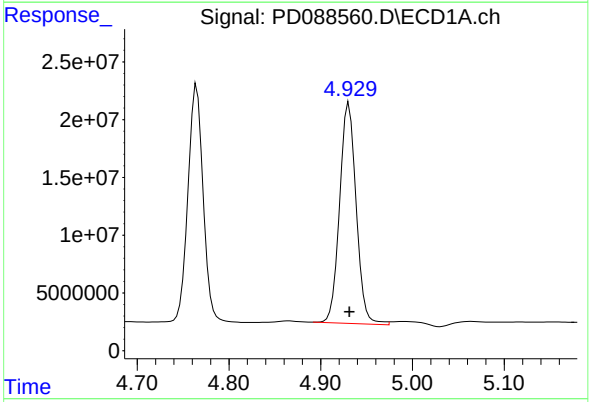
R.T.: 4.331 min
Delta R.T.: 0.000 min
Response: 242710287
Conc: 57.96 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MSD



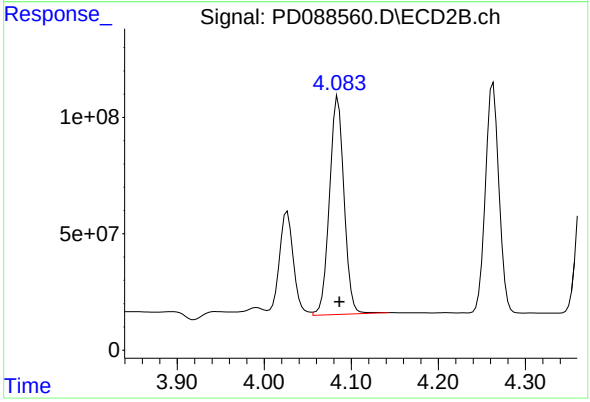
#3 gamma-BHC (Lindane)

R.T.: 3.731 min
Delta R.T.: -0.002 min
Response: 1059706012
Conc: 49.20 ng/ml



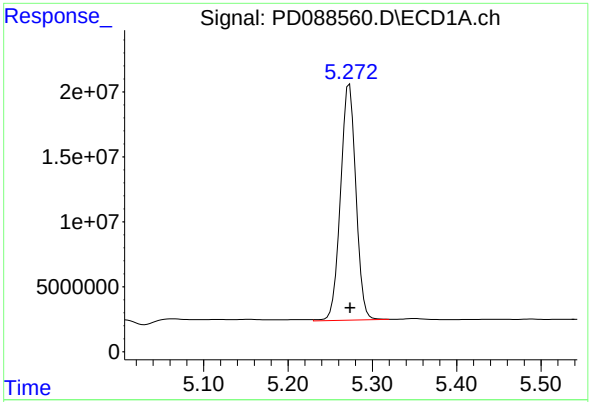
#4 Heptachlor

R.T.: 4.931 min
Delta R.T.: 0.000 min
Response: 238946266
Conc: 59.16 ng/ml



#4 Heptachlor

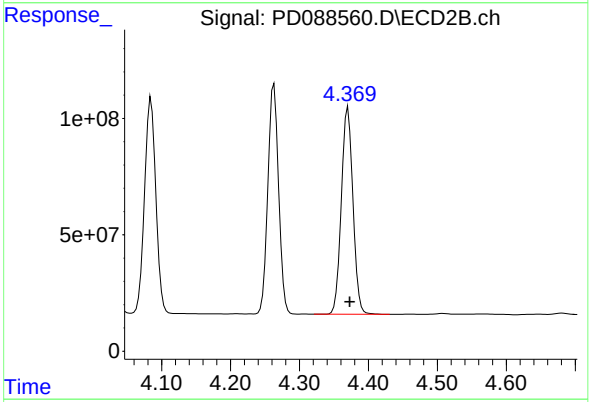
R.T.: 4.085 min
Delta R.T.: -0.002 min
Response: 1091357414
Conc: 51.00 ng/ml



#5 Aldrin

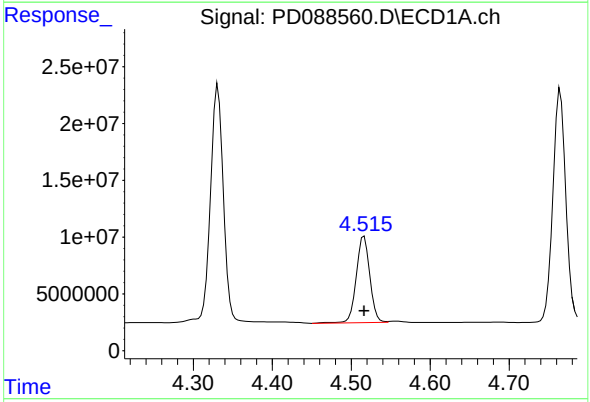
R.T.: 5.273 min
Delta R.T.: 0.000 min
Response: 230132772
Conc: 58.27 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MSD



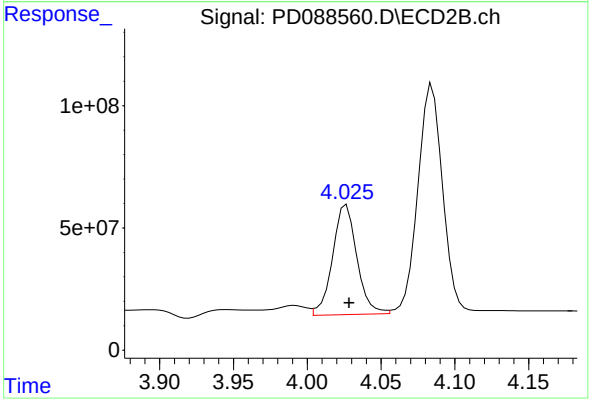
#5 Aldrin

R.T.: 4.370 min
Delta R.T.: -0.002 min
Response: 1039504056
Conc: 49.97 ng/ml



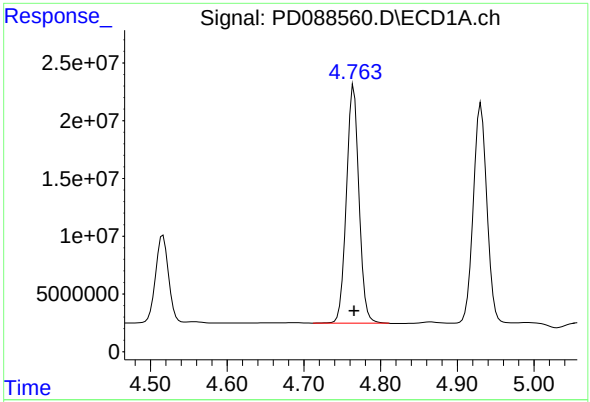
#6 beta-BHC

R.T.: 4.516 min
Delta R.T.: 0.000 min
Response: 90626662
Conc: 55.83 ng/ml



#6 beta-BHC

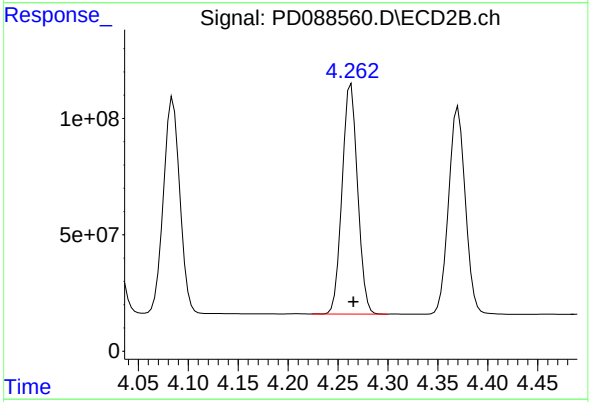
R.T.: 4.027 min
Delta R.T.: -0.002 min
Response: 516293100
Conc: 55.79 ng/ml



#7 delta-BHC

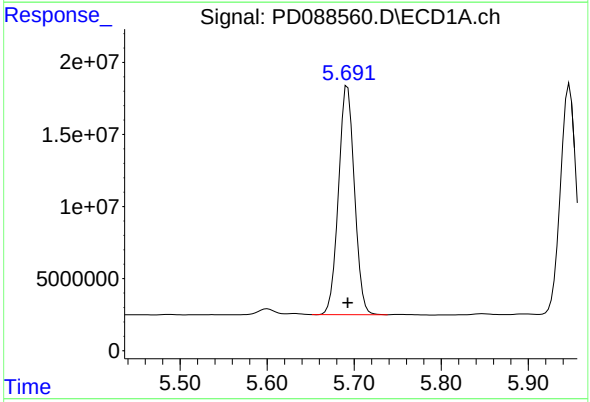
R.T.: 4.765 min
Delta R.T.: 0.000 min
Response: 235790004
Conc: 57.16 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MSD



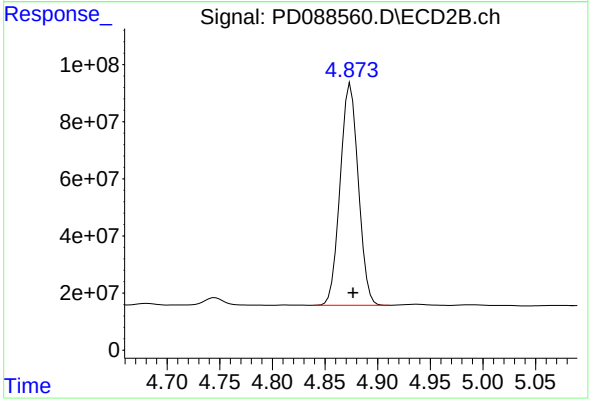
#7 delta-BHC

R.T.: 4.263 min
Delta R.T.: -0.002 min
Response: 1068484970
Conc: 50.25 ng/ml



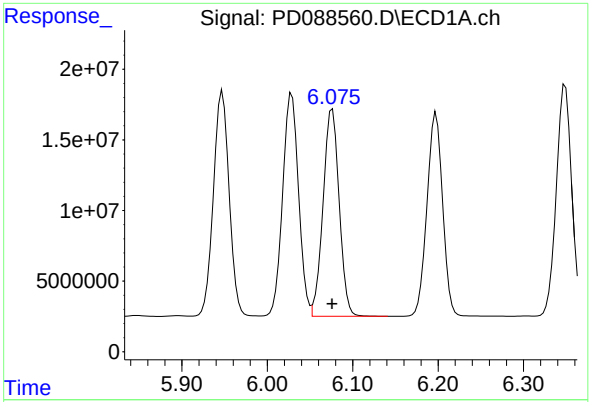
#8 Heptachlor epoxide

R.T.: 5.692 min
Delta R.T.: 0.000 min
Response: 201847477
Conc: 56.48 ng/ml



#8 Heptachlor epoxide

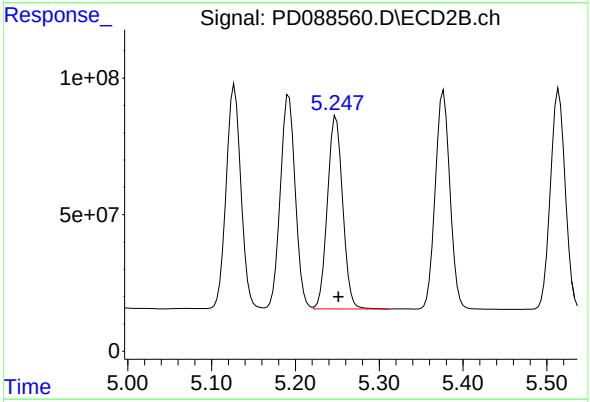
R.T.: 4.874 min
Delta R.T.: -0.002 min
Response: 936317917
Conc: 49.56 ng/ml



#9 Endosulfan I

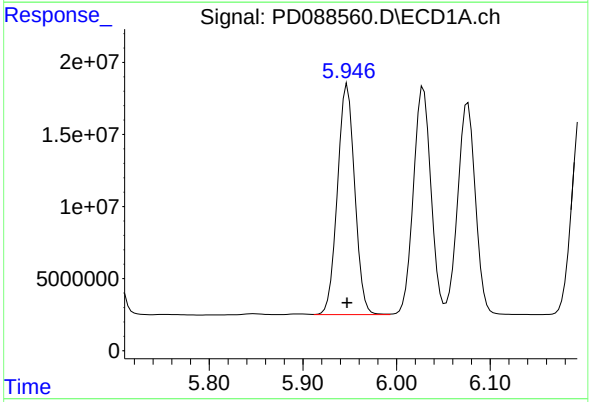
R.T.: 6.076 min
Delta R.T.: 0.000 min
Response: 192865689
Conc: 57.11 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MSD



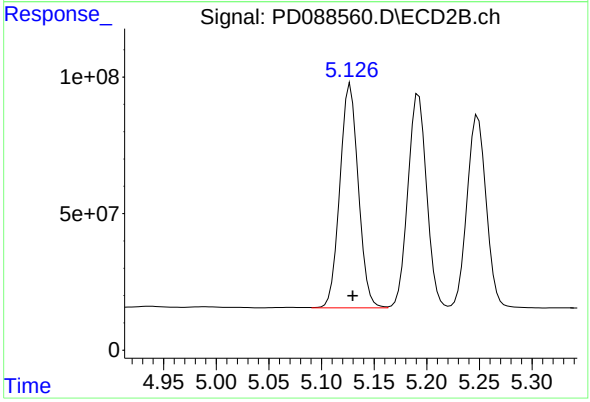
#9 Endosulfan I

R.T.: 5.249 min
Delta R.T.: -0.003 min
Response: 893453300
Conc: 49.60 ng/ml



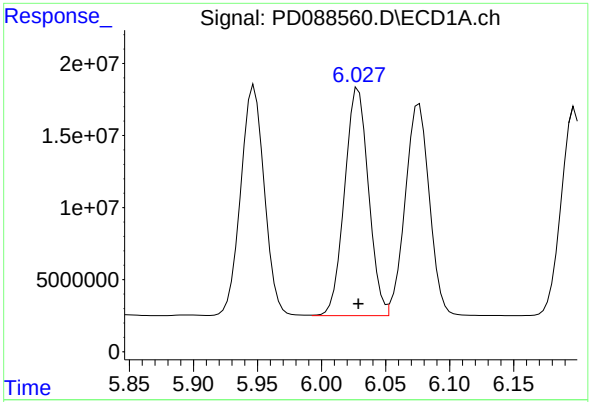
#10 gamma-Chlordane

R.T.: 5.947 min
Delta R.T.: 0.000 min
Response: 204884312
Conc: 56.57 ng/ml



#10 gamma-Chlordane

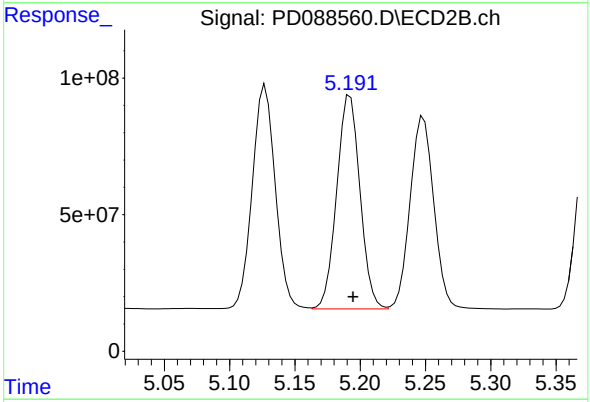
R.T.: 5.127 min
Delta R.T.: -0.002 min
Response: 1005201488
Conc: 49.53 ng/ml



#11 alpha-Chlordane

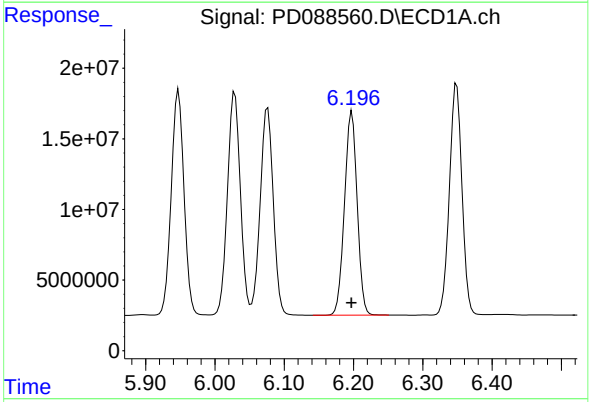
R.T.: 6.029 min
Delta R.T.: 0.000 min
Response: 205260866
Conc: 56.87 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MSD



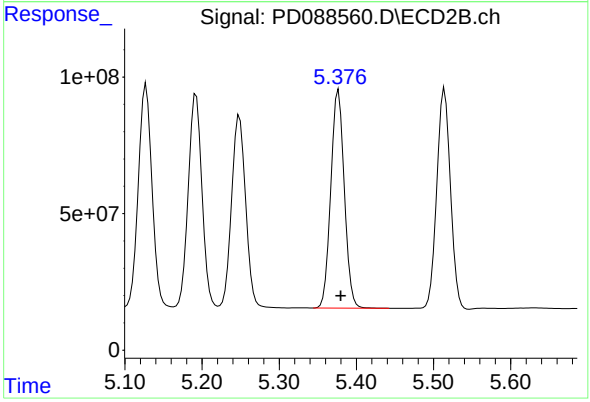
#11 alpha-Chlordane

R.T.: 5.192 min
Delta R.T.: -0.002 min
Response: 971413231
Conc: 49.55 ng/ml



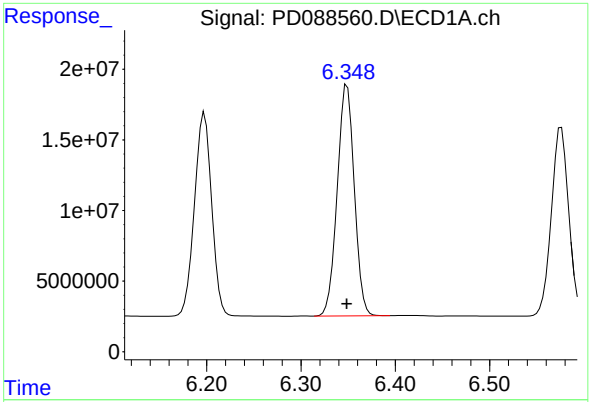
#12 4,4'-DDE

R.T.: 6.198 min
Delta R.T.: 0.000 min
Response: 183222754
Conc: 55.55 ng/ml



#12 4,4'-DDE

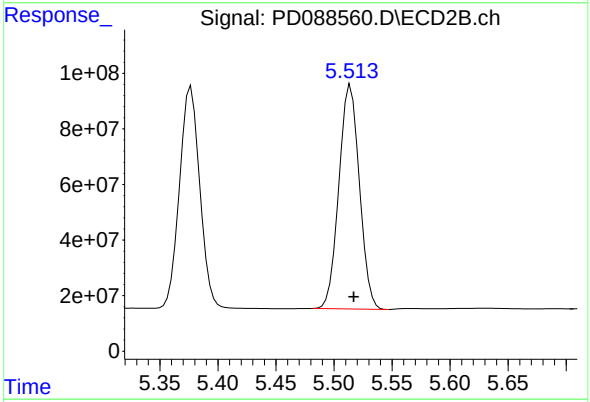
R.T.: 5.377 min
Delta R.T.: -0.003 min
Response: 973767171
Conc: 49.44 ng/ml



#13 Dieldrin

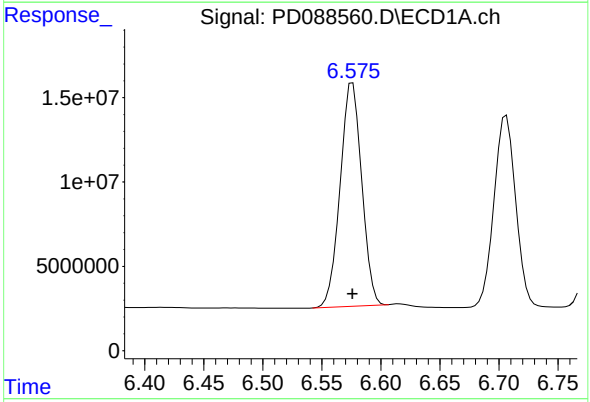
R.T.: 6.349 min
Delta R.T.: 0.000 min
Response: 206069511
Conc: 57.75 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MSD



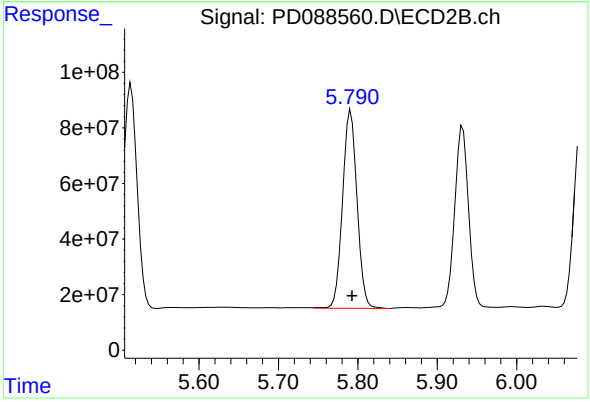
#13 Dieldrin

R.T.: 5.514 min
Delta R.T.: -0.003 min
Response: 991835662
Conc: 49.76 ng/ml



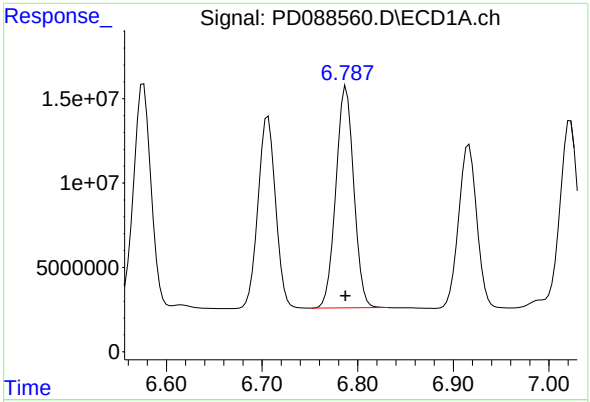
#14 Endrin

R.T.: 6.576 min
Delta R.T.: 0.000 min
Response: 168387394
Conc: 56.46 ng/ml



#14 Endrin

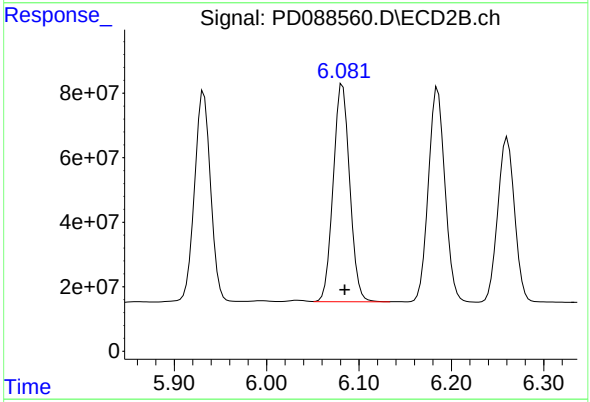
R.T.: 5.791 min
Delta R.T.: -0.002 min
Response: 904860069
Conc: 49.71 ng/ml



#15 Endosulfan II

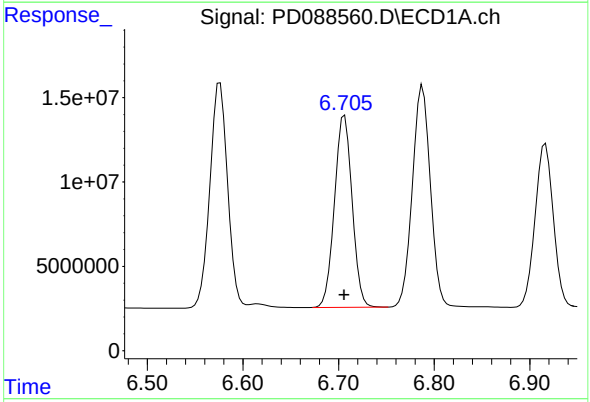
R.T.: 6.788 min
Delta R.T.: 0.000 min
Response: 171135248
Conc: 54.74 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MSD



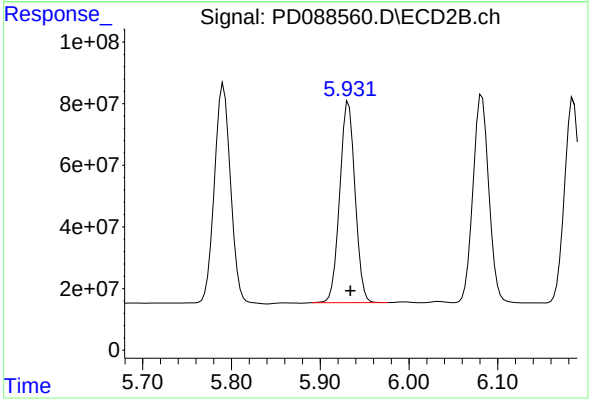
#15 Endosulfan II

R.T.: 6.082 min
Delta R.T.: -0.002 min
Response: 839910715
Conc: 47.94 ng/ml



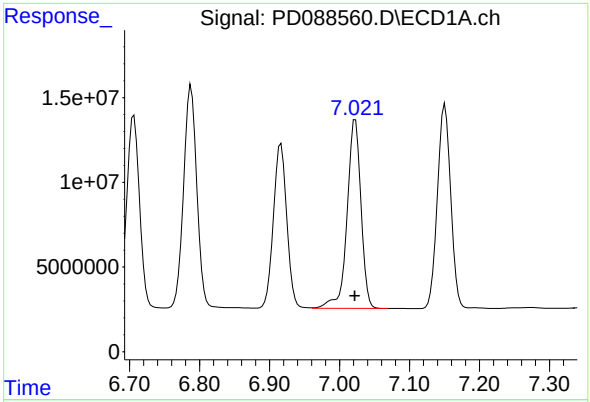
#16 4,4'-DDD

R.T.: 6.706 min
Delta R.T.: 0.000 min
Response: 145921532
Conc: 58.02 ng/ml



#16 4,4'-DDD

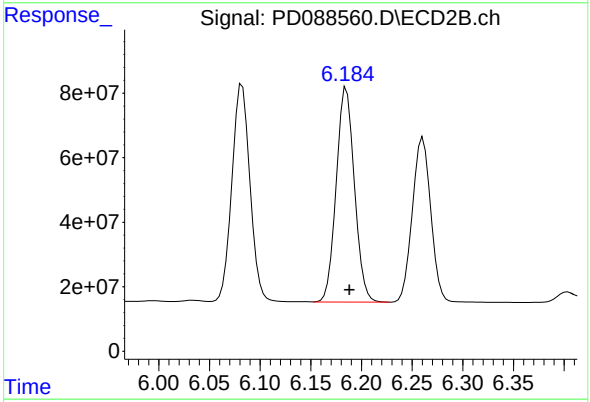
R.T.: 5.932 min
Delta R.T.: -0.002 min
Response: 783395286
Conc: 47.81 ng/ml



#17 4,4'-DDT

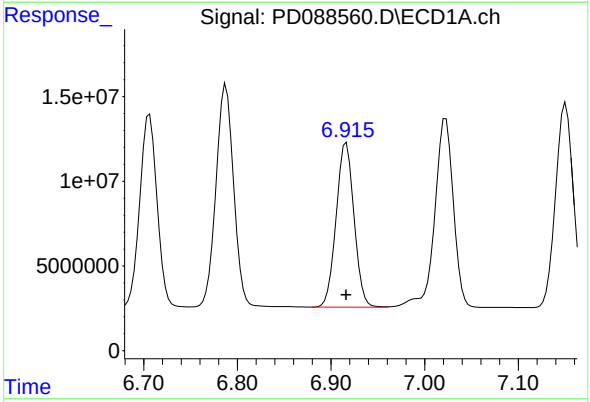
R.T.: 7.023 min
Delta R.T.: 0.000 min
Response: 154075882
Conc: 55.47 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MSD



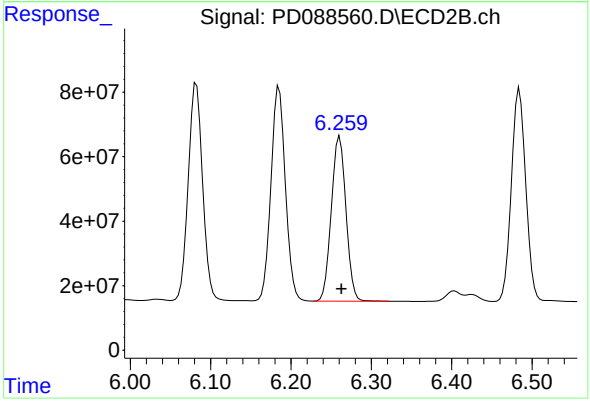
#17 4,4'-DDT

R.T.: 6.185 min
Delta R.T.: -0.003 min
Response: 829942809
Conc: 48.77 ng/ml



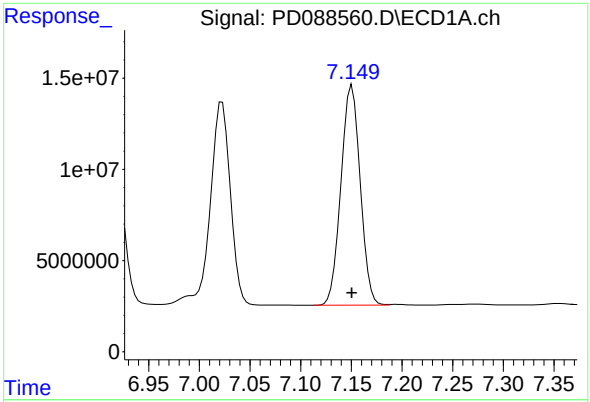
#18 Endrin aldehyde

R.T.: 6.916 min
Delta R.T.: 0.000 min
Response: 129017565
Conc: 55.90 ng/ml



#18 Endrin aldehyde

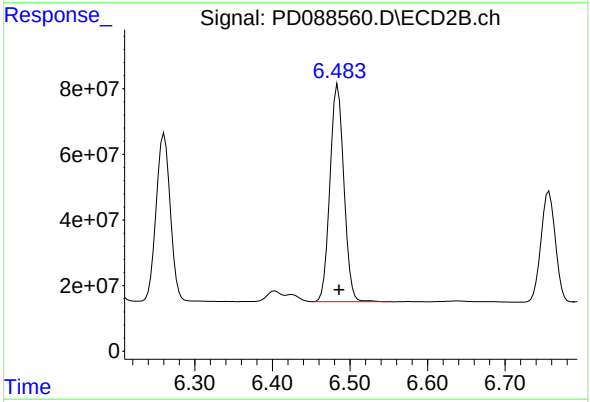
R.T.: 6.261 min
Delta R.T.: -0.002 min
Response: 647311804
Conc: 48.67 ng/ml



#19 Endosulfan Sulfate

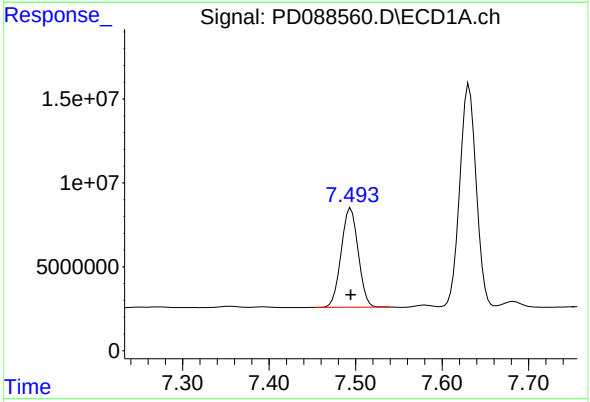
R.T.: 7.151 min
Delta R.T.: 0.000 min
Response: 159438229
Conc: 55.44 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MSD



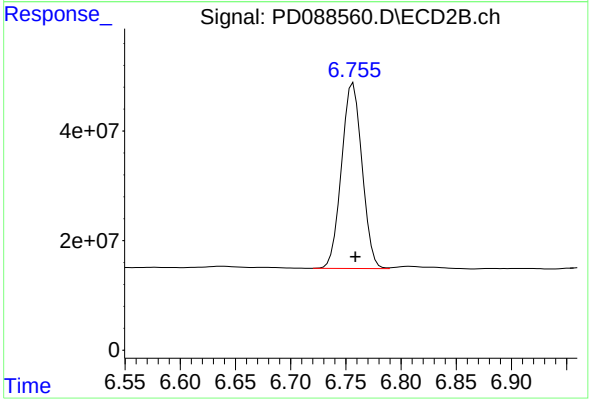
#19 Endosulfan Sulfate

R.T.: 6.484 min
Delta R.T.: -0.002 min
Response: 825981631
Conc: 48.21 ng/ml



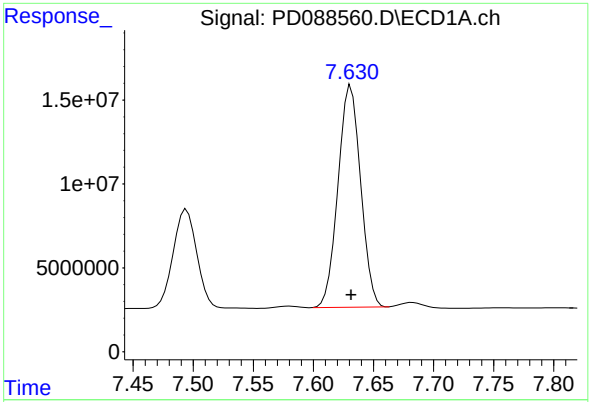
#20 Methoxychlor

R.T.: 7.494 min
Delta R.T.: 0.000 min
Response: 80457383
Conc: 53.65 ng/ml



#20 Methoxychlor

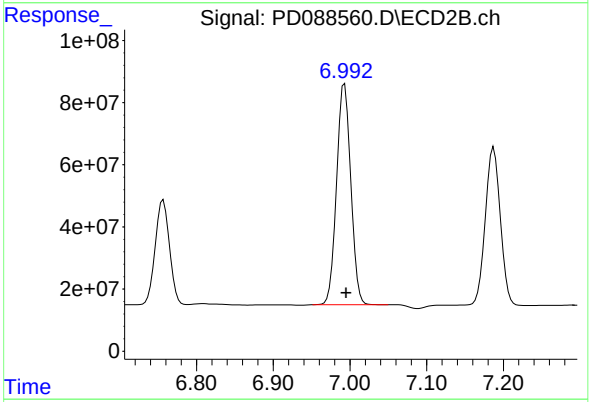
R.T.: 6.757 min
Delta R.T.: -0.002 min
Response: 437003384
Conc: 47.91 ng/ml



#21 Endrin ketone

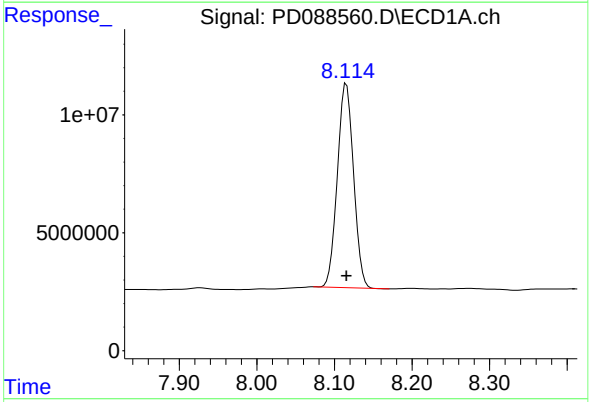
R.T.: 7.631 min
Delta R.T.: 0.000 min
Response: 173681582
Conc: 56.27 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MSD



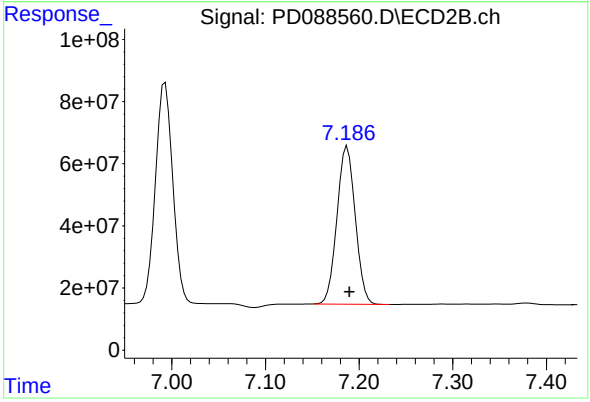
#21 Endrin ketone

R.T.: 6.993 min
Delta R.T.: -0.002 min
Response: 917441276
Conc: 49.05 ng/ml



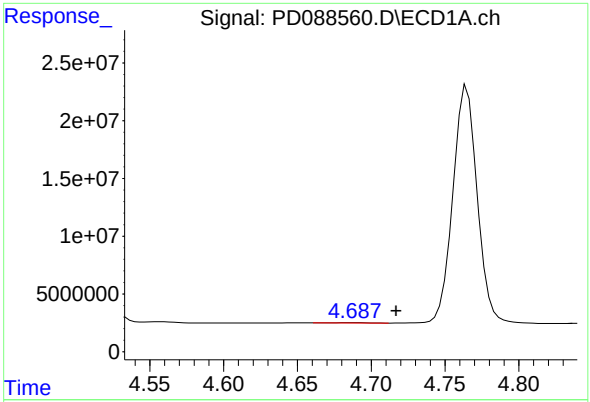
#22 Mirex

R.T.: 8.115 min
Delta R.T.: 0.000 min
Response: 125777548
Conc: 53.56 ng/ml



#22 Mirex

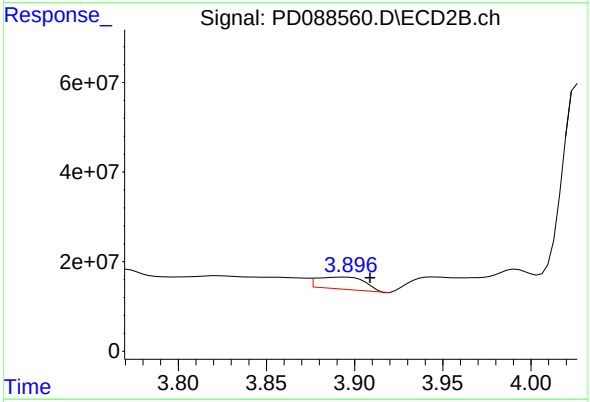
R.T.: 7.187 min
Delta R.T.: -0.002 min
Response: 690241204
Conc: 46.57 ng/ml



#23 Chlordane-1

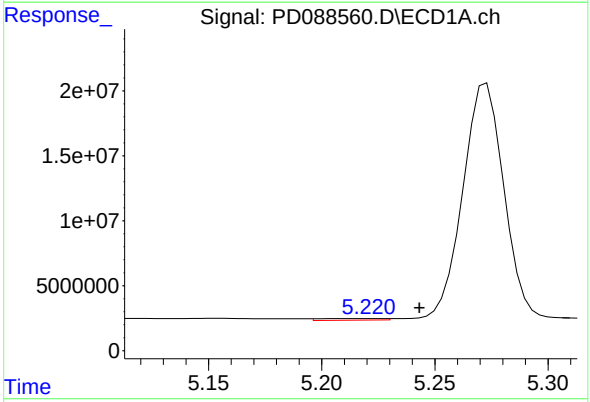
R.T.: 4.688 min
Delta R.T.: -0.028 min
Response: 330560
Conc: 1.99 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MSD



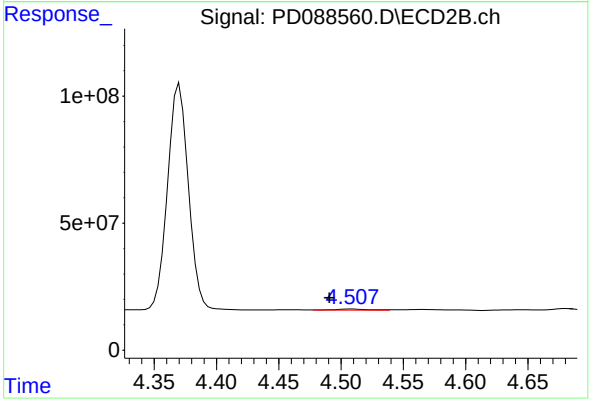
#23 Chlordane-1

R.T.: 3.894 min
Delta R.T.: -0.014 min
Response: 50896007
Conc: 63.48 ng/ml



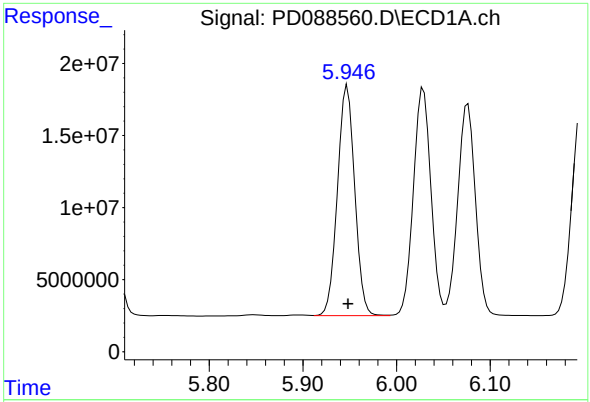
#24 Chlordane-2

R.T.: 5.221 min
Delta R.T.: -0.022 min
Response: 2430178
Conc: 14.59 ng/ml



#24 Chlordane-2

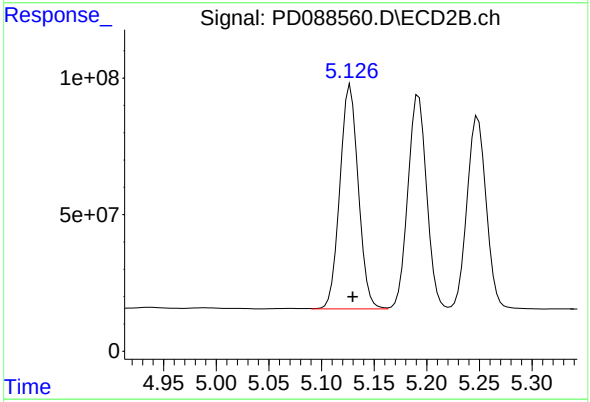
R.T.: 4.508 min
Delta R.T.: 0.018 min
Response: 8105040
Conc: 9.82 ng/ml



#25 Chlordane-3

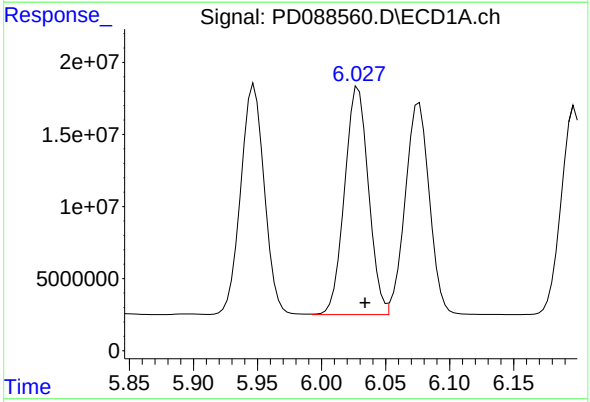
R.T.: 5.947 min
Delta R.T.: 0.000 min
Response: 204884312
Conc: 303.74 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MSD



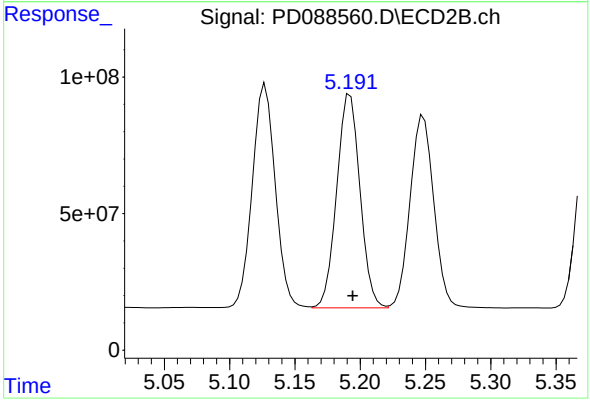
#25 Chlordane-3

R.T.: 5.127 min
Delta R.T.: -0.002 min
Response: 1005201488
Conc: 397.46 ng/ml



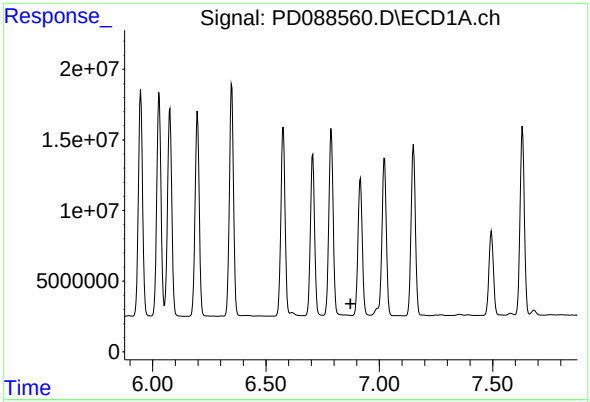
#26 Chlordane-4

R.T.: 6.029 min
Delta R.T.: -0.005 min
Response: 205260866
Conc: 251.75 ng/ml



#26 Chlordane-4

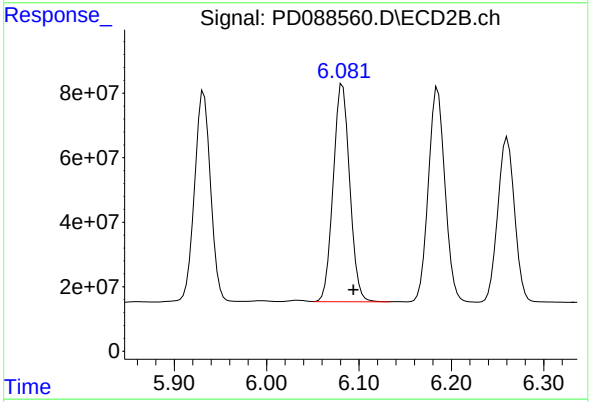
R.T.: 5.192 min
Delta R.T.: -0.002 min
Response: 971413231
Conc: 454.32 ng/ml



#27 Chlordane-5

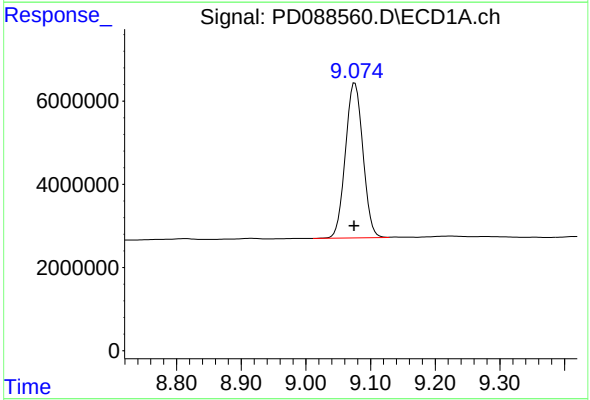
R.T.: 0.000 min
Exp R.T. : 6.873 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
OU4-PCS-TC-33-050725MSD



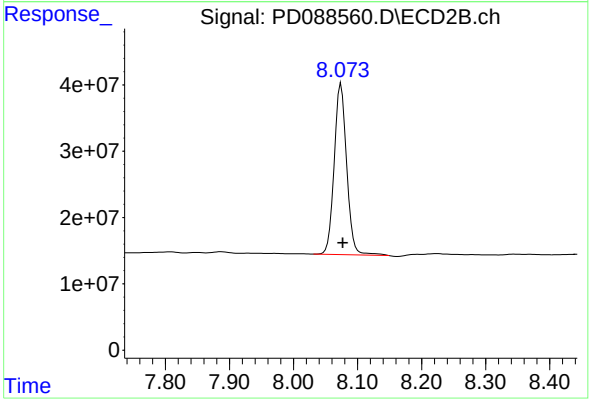
#27 Chlordane-5

R.T.: 6.082 min
Delta R.T.: -0.012 min
Response: 839910715
Conc: 869.90 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.076 min
Delta R.T.: 0.000 min
Response: 70211275
Conc: 21.22 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.074 min
Delta R.T.: -0.003 min
Response: 348890009
Conc: 18.88 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088563.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 13:46
Operator : AR\AJ
Sample : Q1984-07
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
OU4-TS-24-050725

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:18:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	System Monitoring Compounds							
1)	SA Tetrachlo...	3.551	2.882	39114841	266.7E6	19.583	18.241	
28)	SA Decachlor...	9.076	8.074	43503827	161.8E6	13.151	8.756	#
	Target Compounds							
2)	A alpha-BHC	4.018f	3.387	13149054	4936535	3.049	0.216	#
3)	MA gamma-BHC...	4.341	3.737	9061972	19700170	2.164	0.915	#
4)	MA Heptachlor	4.955f	4.074	8476749	23617411	2.099	1.104	#
6)	B beta-BHC	4.537f	0.000	565914	0	0.349	N.D.	#
7)	B delta-BHC	4.781f	4.276	14525640	10346960	3.521	0.487	#
8)	B Heptachlo...	0.000	4.874	0	6377229	N.D.	0.338	#
9)	A Endosulfan I	6.101f	5.269f	2386689	53617922	0.707	2.977	#
10)	B gamma-Chl...	5.947	5.126	14664589	96037320	4.049	4.732	
11)	B alpha-Chl...	6.032	5.193	16354969	86106638	4.531	4.393	
12)	B 4,4'-DDE	6.198	5.378	5443061	48081152	1.650	2.441	#
13)	MA Dieldrin	6.351	5.513	3140168	33337353	0.880	1.672	#
14)	MA Endrin	6.579	5.795	973122	30727138	0.326	1.688	#
15)	B Endosulfa...	6.792	6.088	1734326	12776986	0.555	0.729	#
16)	A 4,4'-DDD	6.694	5.936	4468580	-4958298	1.777	N.D.	#
17)	MA 4,4'-DDT	7.022	6.196	2846261	41065384	1.025	2.413	#
18)	B Endrin al...	6.935f	6.247f	4718906	93719906	2.045	7.046	#
19)	B Endosulfa...	0.000	6.484	0	2600899	N.D.	0.152	#
21)	B Endrin ke...	0.000	6.977f	0	477198	N.D.	0.026	#
22)	Mirex	0.000	7.179	0	21989717	N.D.	1.484	#
23)	Chlordane-1	4.718	3.903	5042082	39956365	30.347	49.839	#
24)	Chlordane-2	5.239	4.491	4068067	9644923	24.429	11.687	#
25)	Chlordane-3	5.947	5.126	14664589	96037320	21.740	37.974	#
26)	Chlordane-4	6.032	5.193	16354969	86106638	20.059	40.271	#
27)	Chlordane-5	6.865	6.088	763906	12776986	5.622	13.233	#

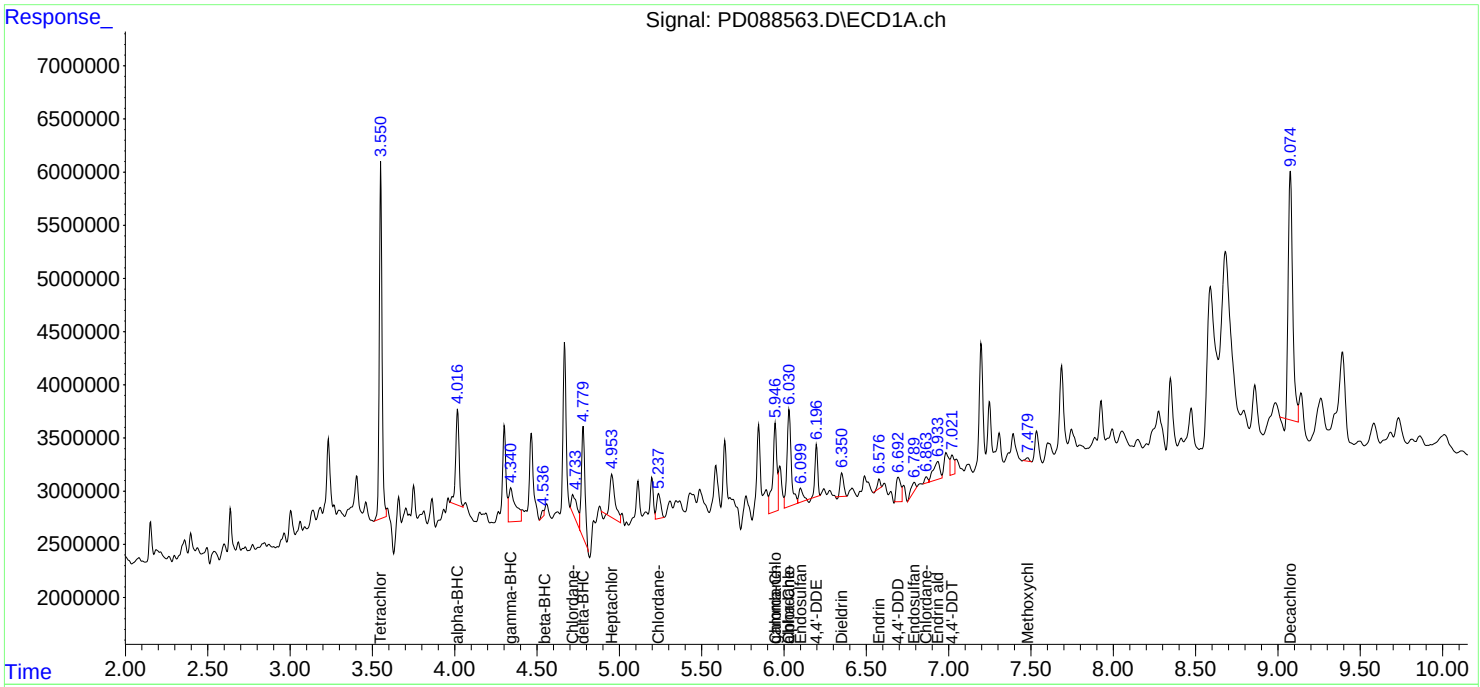
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

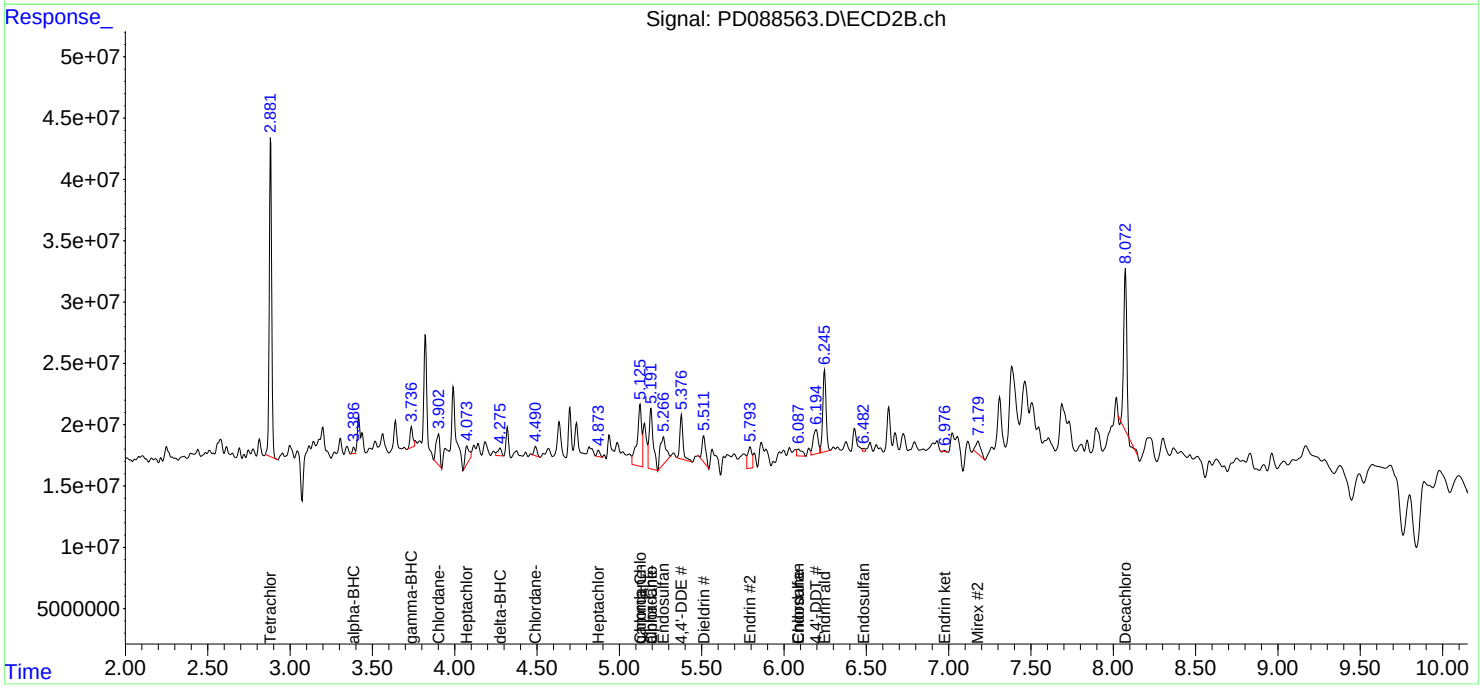
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088563.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 13:46
Operator : AR\AJ
Sample : Q1984-07
Misc :
ALS Vial : 14 Sample Multiplier: 1

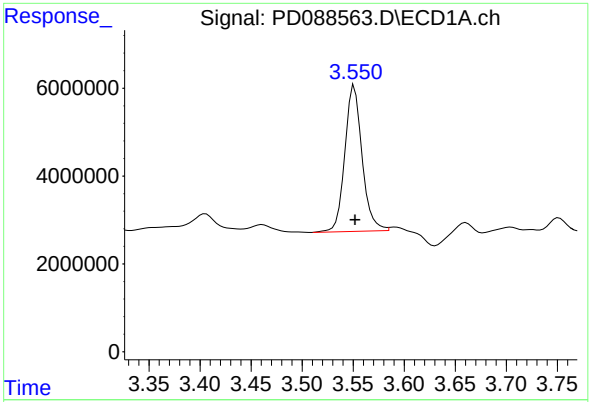
Instrument :
ECD_D
ClientSampleId :
OU4-TS-24-050725

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:18:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



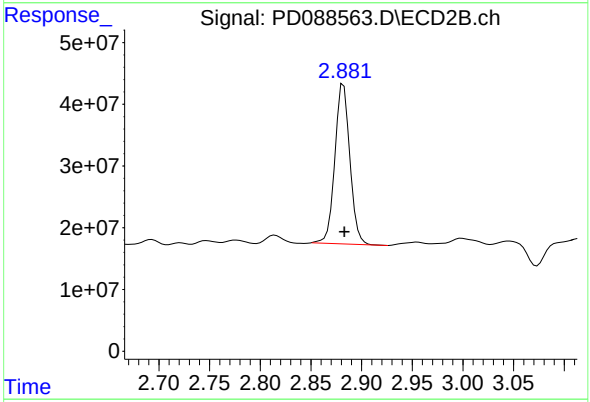




#1 Tetrachloro-m-xylene

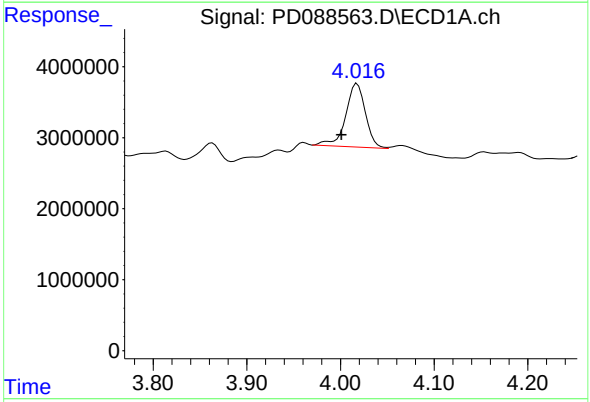
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 39114841
Conc: 19.58 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-24-050725



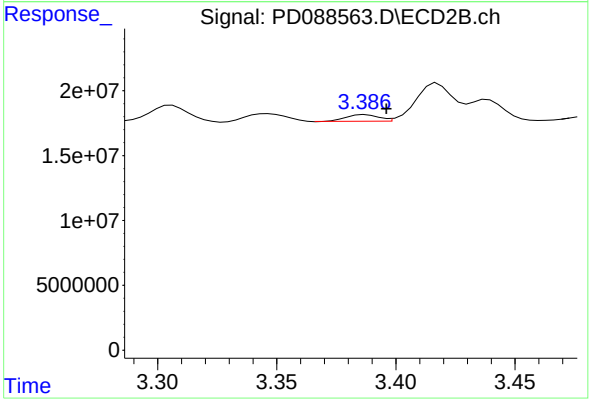
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 266712840
Conc: 18.24 ng/ml



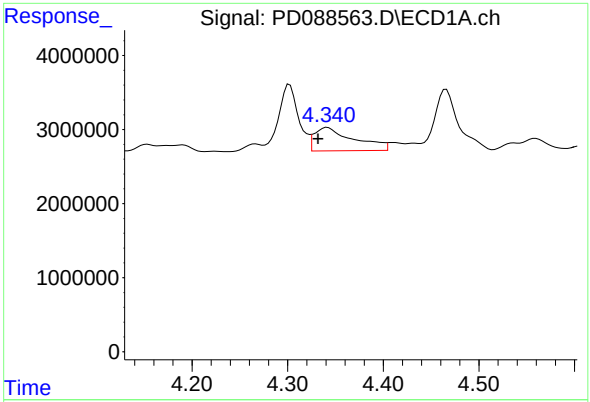
#2 alpha-BHC

R.T.: 4.018 min
Delta R.T.: 0.017 min
Response: 13149054
Conc: 3.05 ng/ml



#2 alpha-BHC

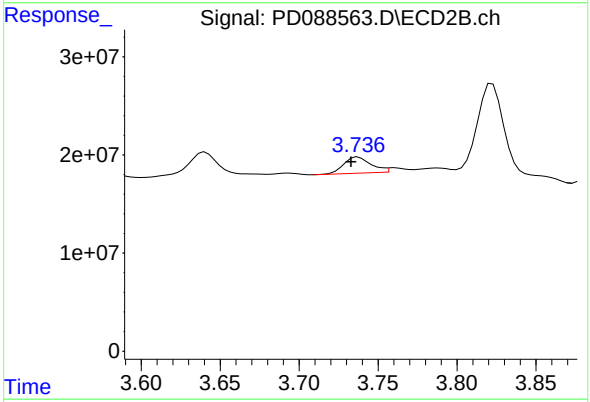
R.T.: 3.387 min
Delta R.T.: -0.009 min
Response: 4936535
Conc: 0.22 ng/ml



#3 gamma-BHC (Lindane)

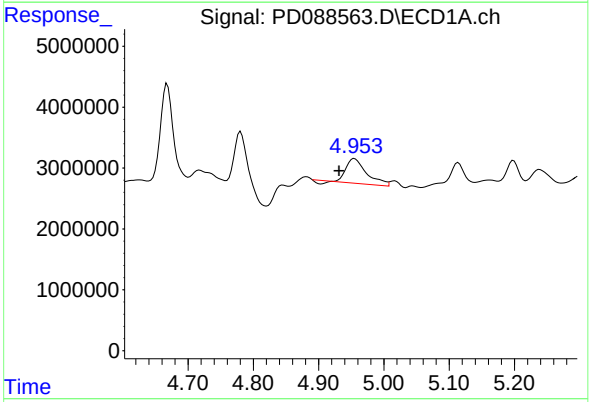
R.T.: 4.341 min
Delta R.T.: 0.010 min
Response: 9061972
Conc: 2.16 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-24-050725



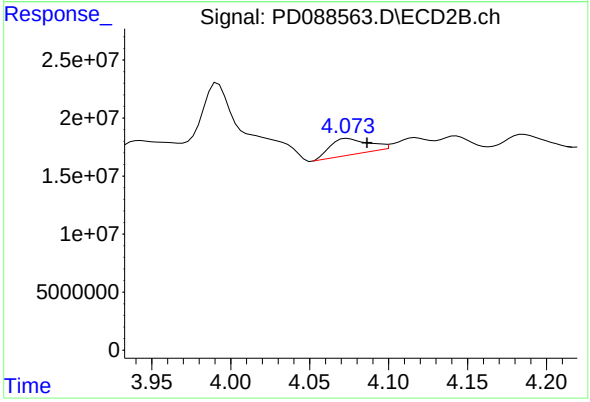
#3 gamma-BHC (Lindane)

R.T.: 3.737 min
Delta R.T.: 0.004 min
Response: 19700170
Conc: 0.91 ng/ml



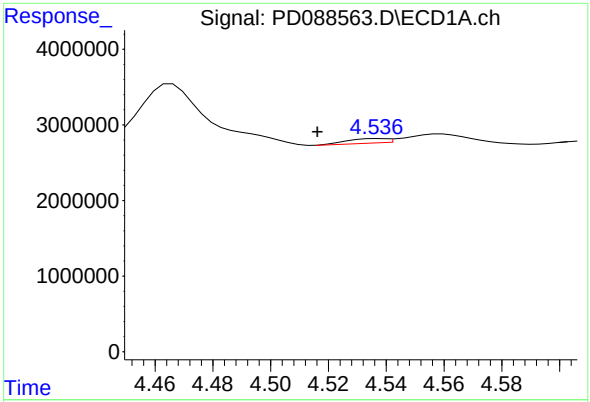
#4 Heptachlor

R.T.: 4.955 min
Delta R.T.: 0.024 min
Response: 8476749
Conc: 2.10 ng/ml



#4 Heptachlor

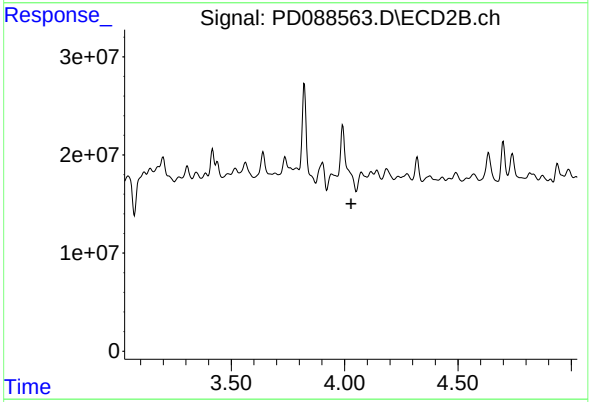
R.T.: 4.074 min
Delta R.T.: -0.012 min
Response: 23617411
Conc: 1.10 ng/ml



#6 beta-BHC

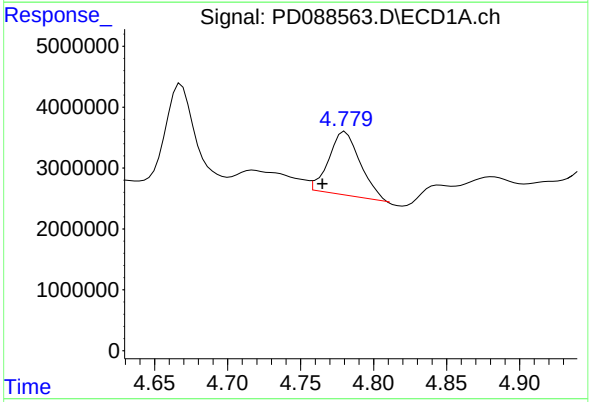
R.T.: 4.537 min
Delta R.T.: 0.021 min
Response: 565914
Conc: 0.35 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-24-050725



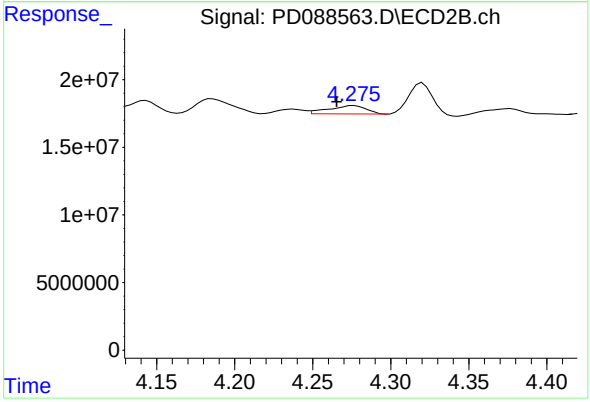
#6 beta-BHC

R.T.: 0.000 min
Exp R.T. : 4.028 min
Response: 0
Conc: N.D.



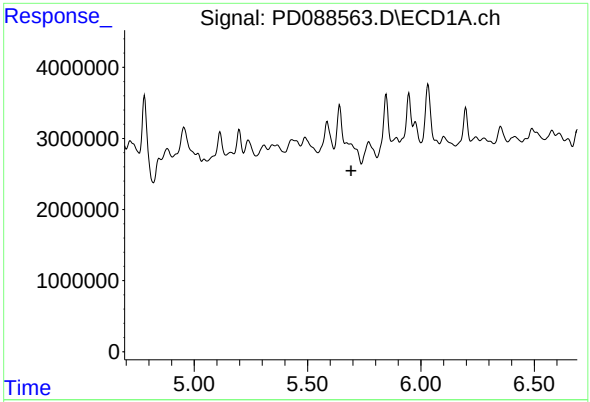
#7 delta-BHC

R.T.: 4.781 min
Delta R.T.: 0.015 min
Response: 14525640
Conc: 3.52 ng/ml



#7 delta-BHC

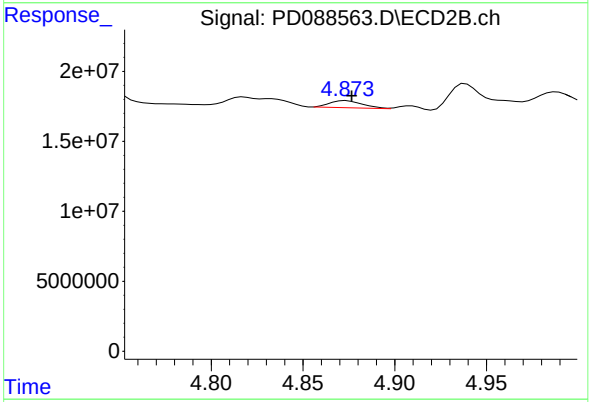
R.T.: 4.276 min
Delta R.T.: 0.011 min
Response: 10346960
Conc: 0.49 ng/ml



#8 Heptachlor epoxide

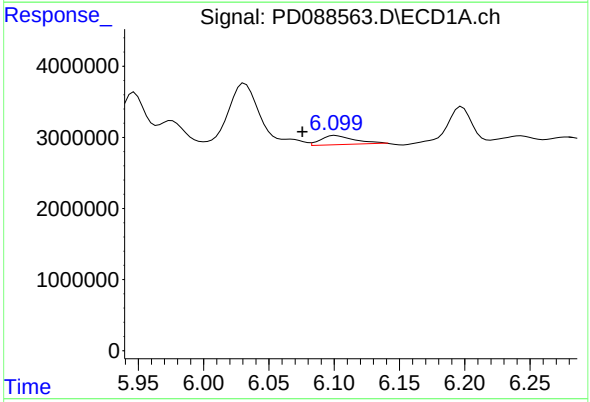
R.T.: 0.000 min
Exp R.T. : 5.692 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
OU4-TS-24-050725



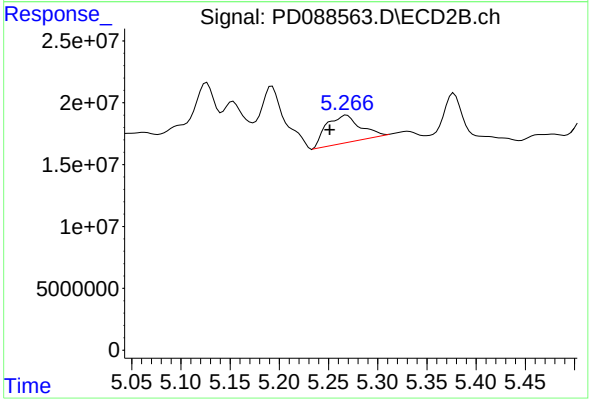
#8 Heptachlor epoxide

R.T.: 4.874 min
Delta R.T.: -0.003 min
Response: 6377229
Conc: 0.34 ng/ml



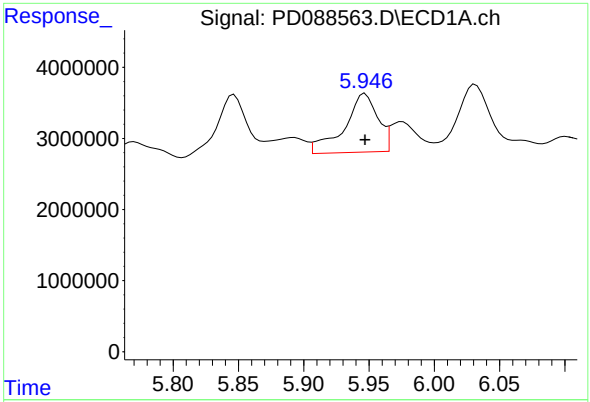
#9 Endosulfan I

R.T.: 6.101 min
Delta R.T.: 0.025 min
Response: 2386689
Conc: 0.71 ng/ml



#9 Endosulfan I

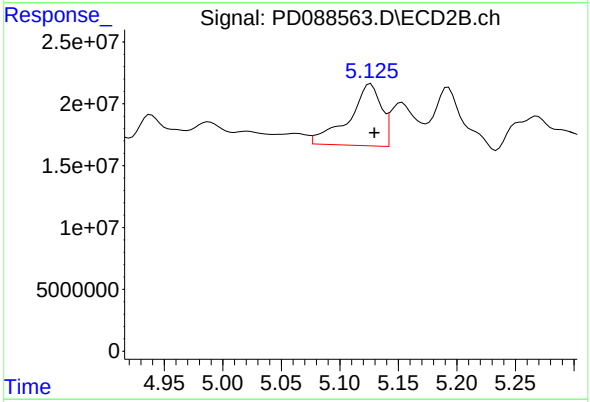
R.T.: 5.269 min
Delta R.T.: 0.017 min
Response: 53617922
Conc: 2.98 ng/ml



#10 gamma-Chlordane

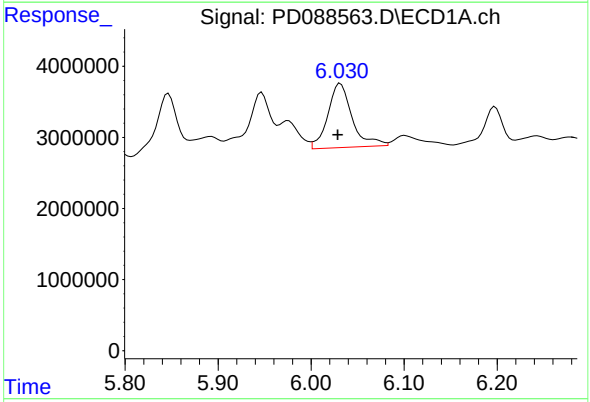
R.T.: 5.947 min
Delta R.T.: 0.000 min
Response: 14664589
Conc: 4.05 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-24-050725



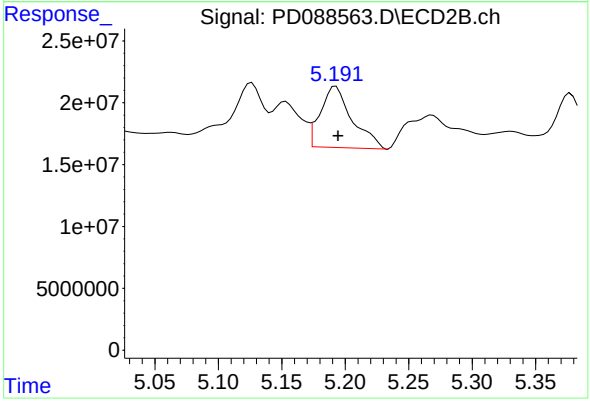
#10 gamma-Chlordane

R.T.: 5.126 min
Delta R.T.: -0.003 min
Response: 96037320
Conc: 4.73 ng/ml



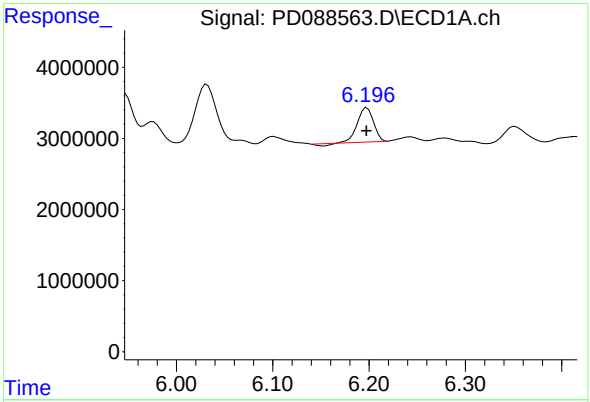
#11 alpha-Chlordane

R.T.: 6.032 min
Delta R.T.: 0.003 min
Response: 16354969
Conc: 4.53 ng/ml



#11 alpha-Chlordane

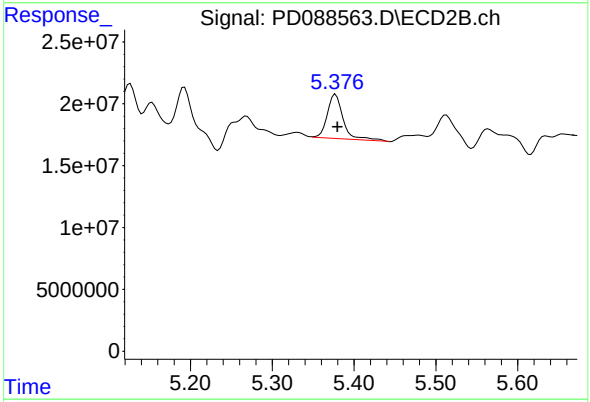
R.T.: 5.193 min
Delta R.T.: -0.002 min
Response: 86106638
Conc: 4.39 ng/ml



#12 4,4'-DDE

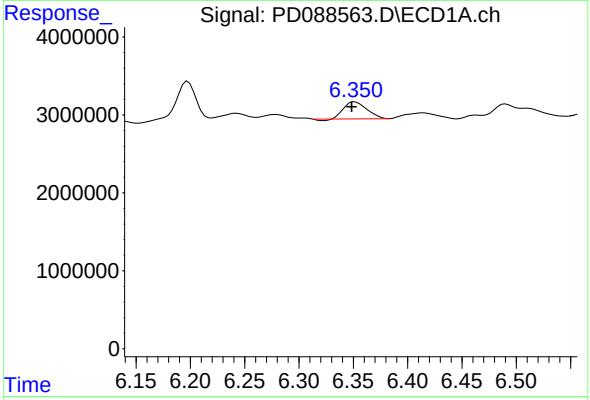
R.T.: 6.198 min
Delta R.T.: 0.000 min
Response: 5443061
Conc: 1.65 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-24-050725



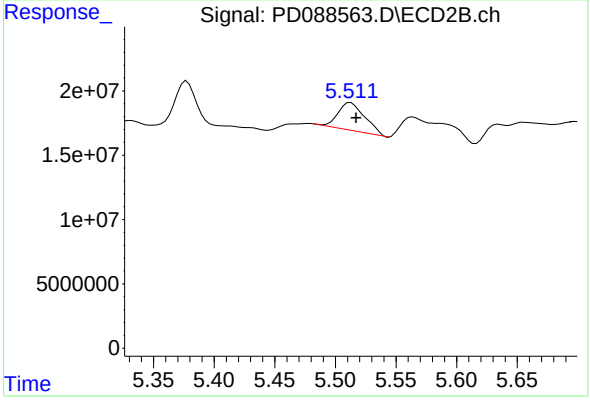
#12 4,4'-DDE

R.T.: 5.378 min
Delta R.T.: -0.002 min
Response: 48081152
Conc: 2.44 ng/ml



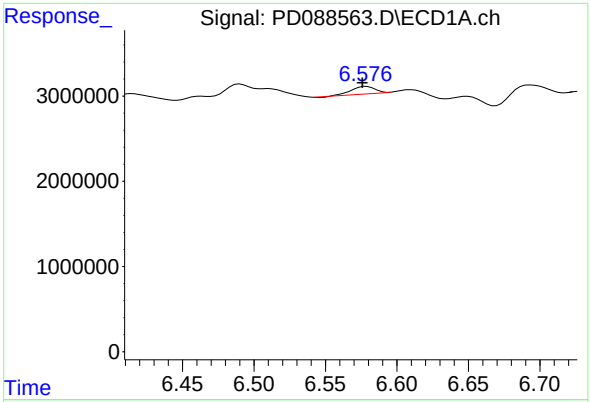
#13 Dieldrin

R.T.: 6.351 min
Delta R.T.: 0.003 min
Response: 3140168
Conc: 0.88 ng/ml



#13 Dieldrin

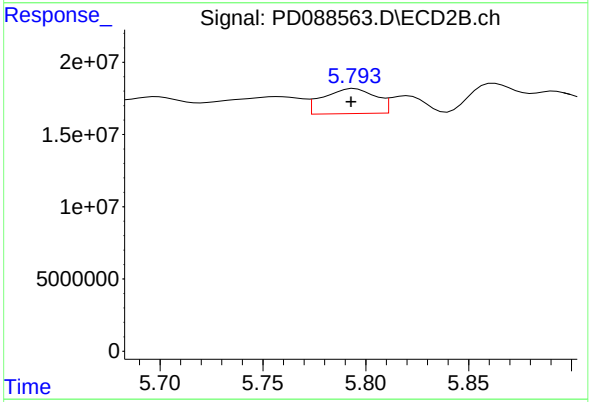
R.T.: 5.513 min
Delta R.T.: -0.004 min
Response: 33337353
Conc: 1.67 ng/ml



#14 Endrin

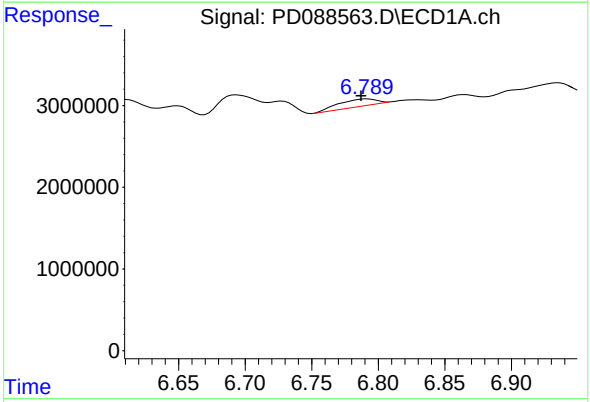
R.T.: 6.579 min
Delta R.T.: 0.003 min
Response: 973122
Conc: 0.33 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-24-050725



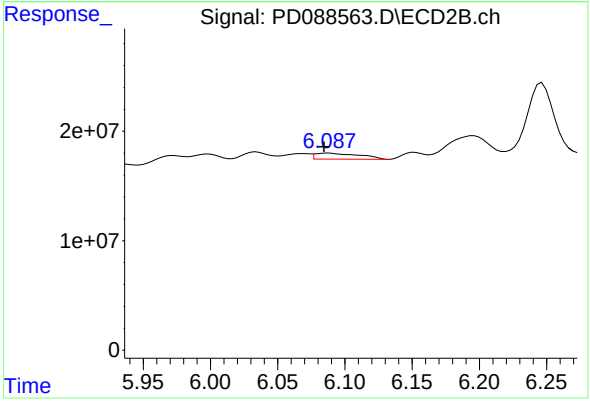
#14 Endrin

R.T.: 5.795 min
Delta R.T.: 0.002 min
Response: 30727138
Conc: 1.69 ng/ml



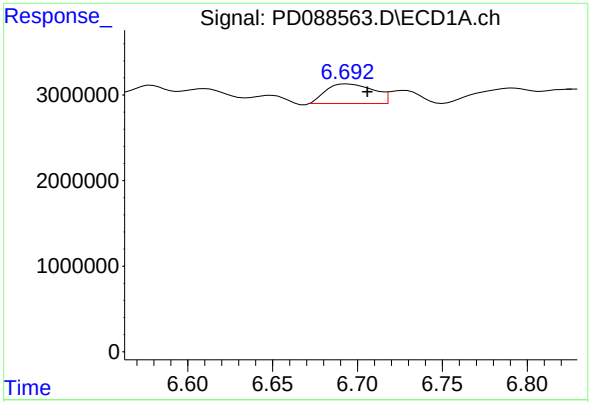
#15 Endosulfan II

R.T.: 6.792 min
Delta R.T.: 0.005 min
Response: 1734326
Conc: 0.55 ng/ml



#15 Endosulfan II

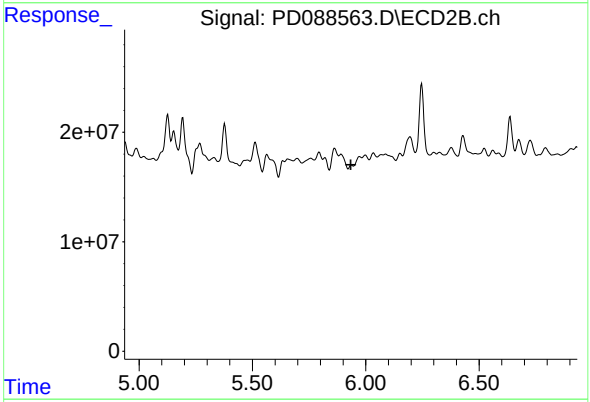
R.T.: 6.088 min
Delta R.T.: 0.004 min
Response: 12776986
Conc: 0.73 ng/ml



#16 4,4'-DDD

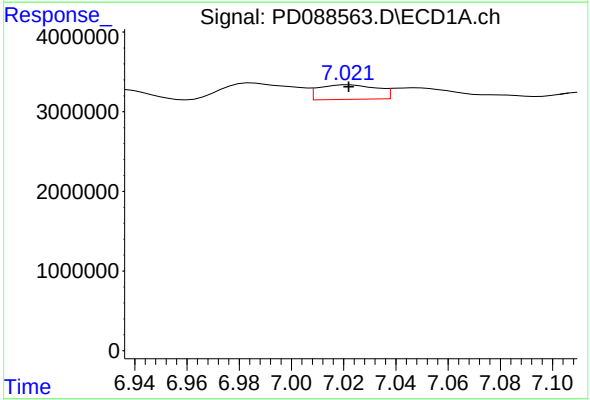
R.T.: 6.694 min
Delta R.T.: -0.012 min
Response: 4468580
Conc: 1.78 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-24-050725



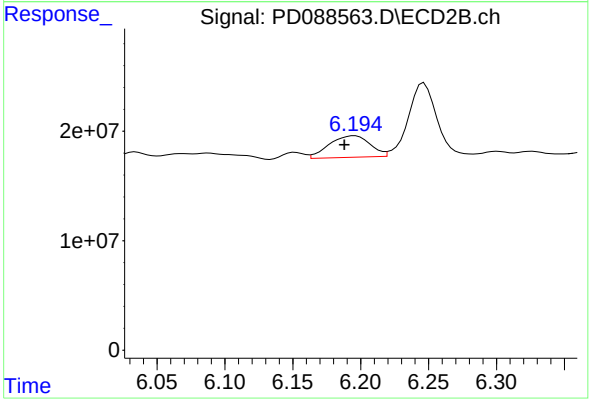
#16 4,4'-DDD

R.T.: 5.936 min
Delta R.T.: 0.002 min
Response: -4958298
Conc: N.D.



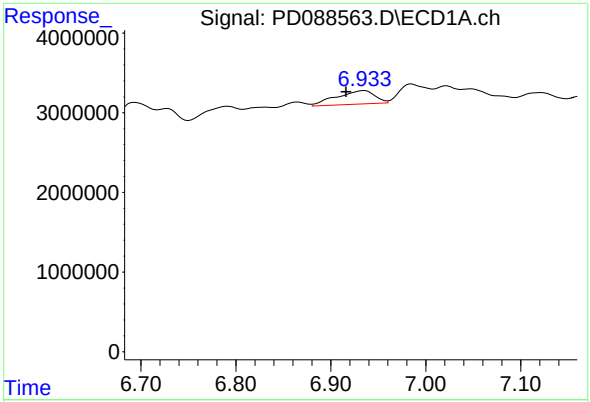
#17 4,4'-DDT

R.T.: 7.022 min
Delta R.T.: 0.000 min
Response: 2846261
Conc: 1.02 ng/ml



#17 4,4'-DDT

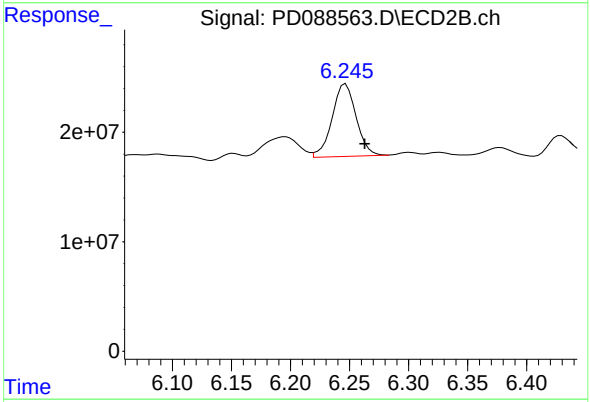
R.T.: 6.196 min
Delta R.T.: 0.008 min
Response: 41065384
Conc: 2.41 ng/ml



#18 Endrin aldehyde

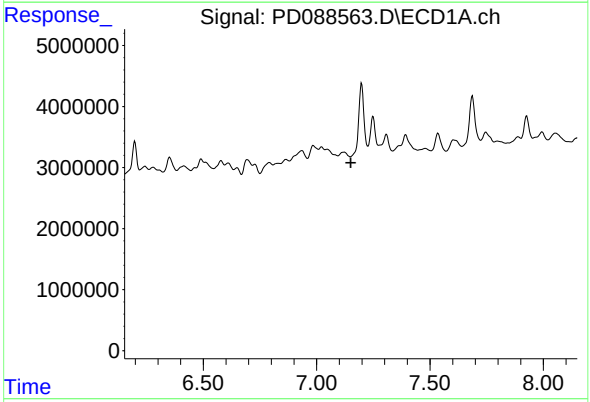
R.T.: 6.935 min
Delta R.T.: 0.019 min
Response: 4718906
Conc: 2.04 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-24-050725



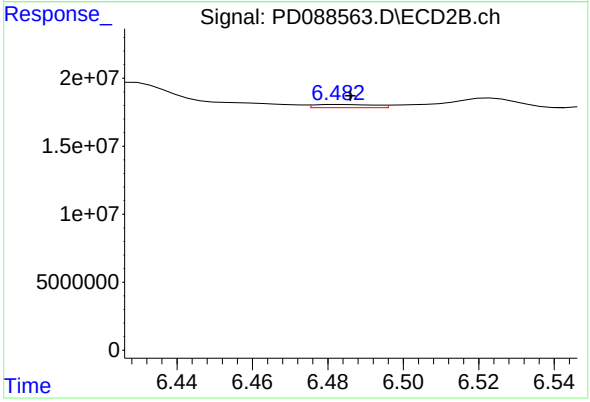
#18 Endrin aldehyde

R.T.: 6.247 min
Delta R.T.: -0.016 min
Response: 93719906
Conc: 7.05 ng/ml



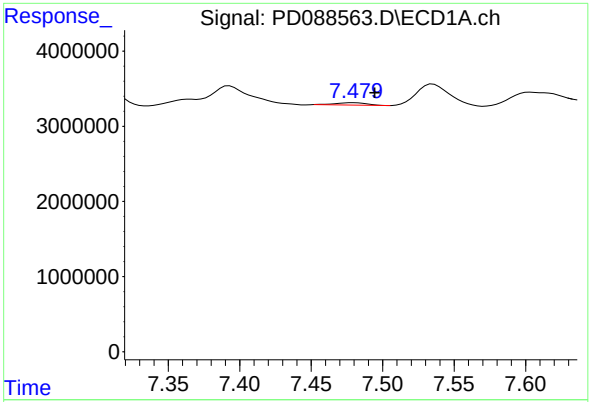
#19 Endosulfan Sulfate

R.T.: 0.000 min
Exp R.T. : 7.150 min
Response: 0
Conc: N.D.



#19 Endosulfan Sulfate

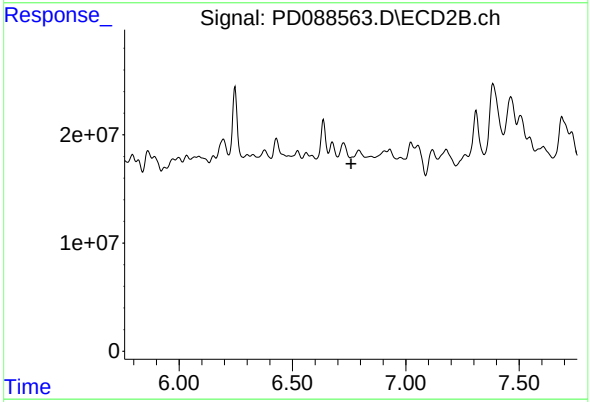
R.T.: 6.484 min
Delta R.T.: -0.002 min
Response: 2600899
Conc: 0.15 ng/ml



#20 Methoxychlor

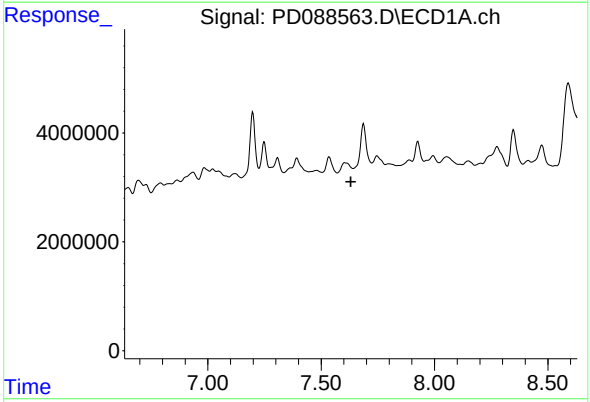
R.T.: 7.481 min
Delta R.T.: -0.014 min
Response: 481904
Conc: 0.32 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-24-050725



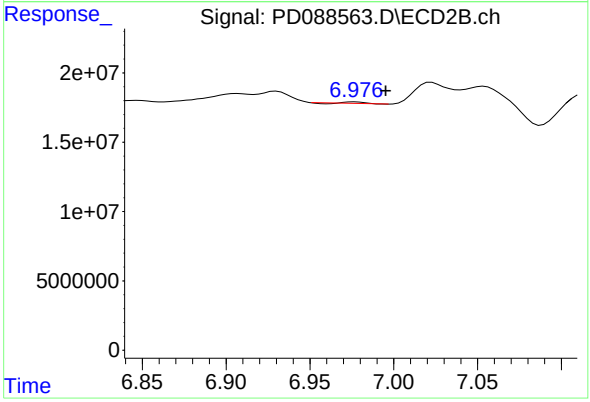
#20 Methoxychlor

R.T.: 6.766 min
Delta R.T.: 0.007 min
Response: -3742177
Conc: N.D.



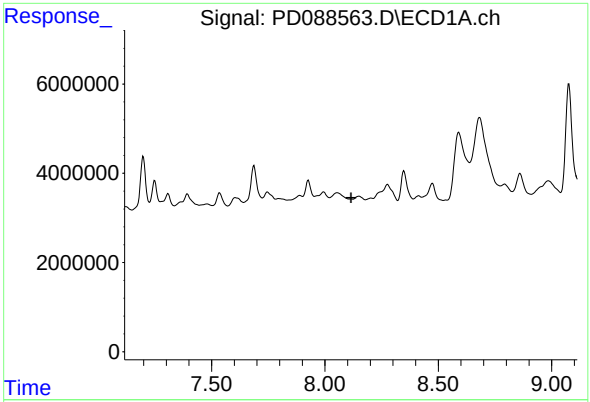
#21 Endrin ketone

R.T.: 0.000 min
Exp R.T. : 7.631 min
Response: 0
Conc: N.D.



#21 Endrin ketone

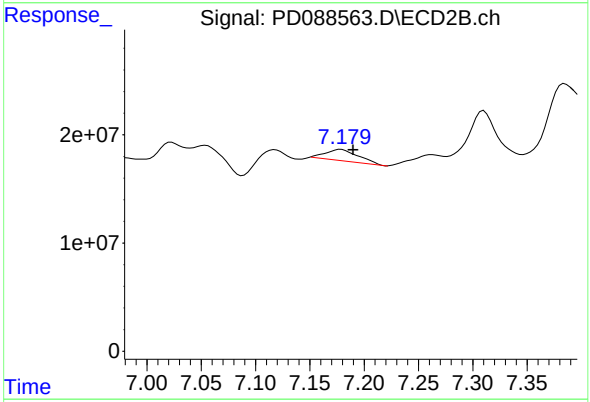
R.T.: 6.977 min
Delta R.T.: -0.018 min
Response: 477198
Conc: 0.03 ng/ml



#22 Mirex

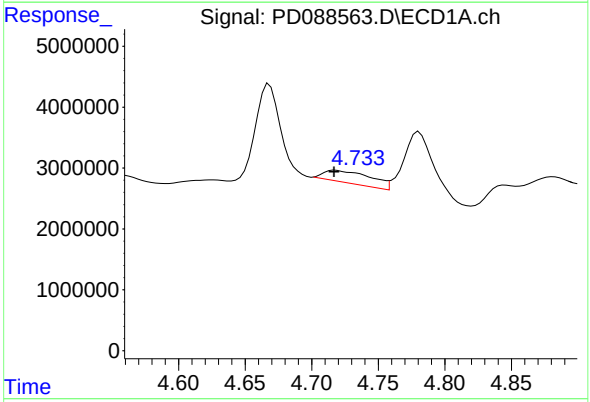
R.T.: 0.000 min
Exp R.T. : 8.115 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
OU4-TS-24-050725



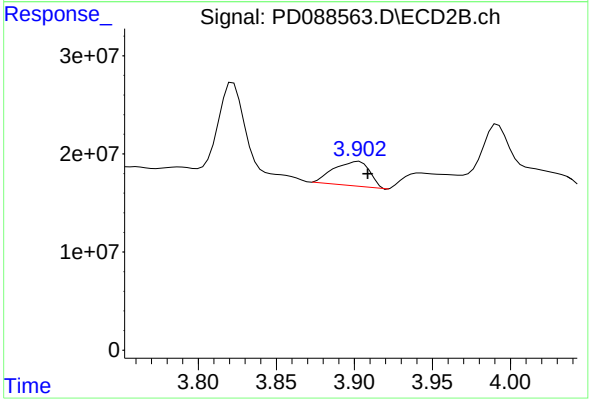
#22 Mirex

R.T.: 7.179 min
Delta R.T.: -0.011 min
Response: 21989717
Conc: 1.48 ng/ml



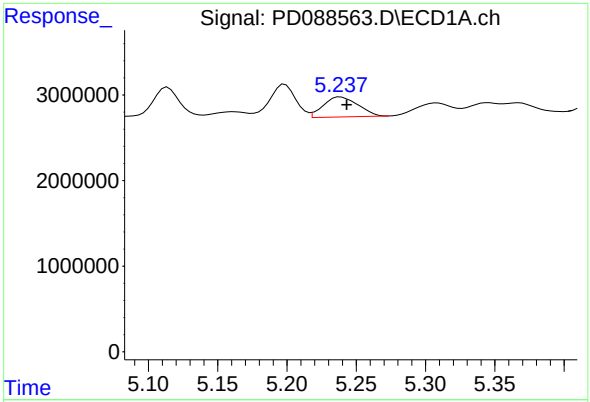
#23 Chlordane-1

R.T.: 4.718 min
Delta R.T.: 0.000 min
Response: 5042082
Conc: 30.35 ng/ml



#23 Chlordane-1

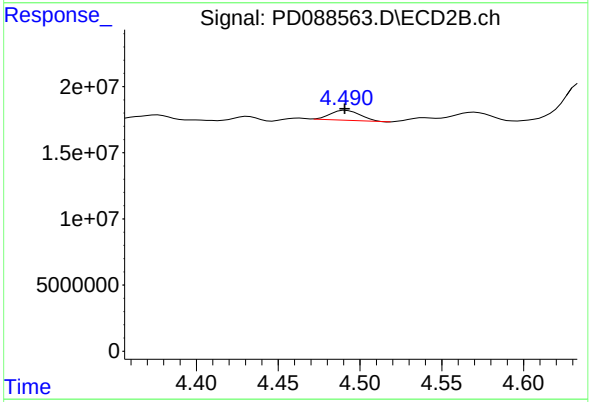
R.T.: 3.903 min
Delta R.T.: -0.006 min
Response: 39956365
Conc: 49.84 ng/ml



#24 Chlordane-2

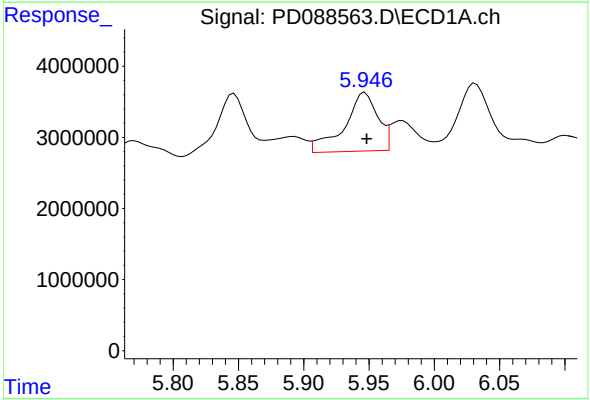
R.T.: 5.239 min
Delta R.T.: -0.005 min
Response: 4068067
Conc: 24.43 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-24-050725



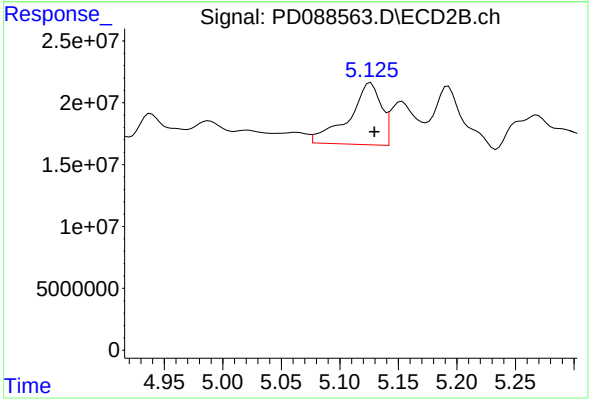
#24 Chlordane-2

R.T.: 4.491 min
Delta R.T.: 0.000 min
Response: 9644923
Conc: 11.69 ng/ml



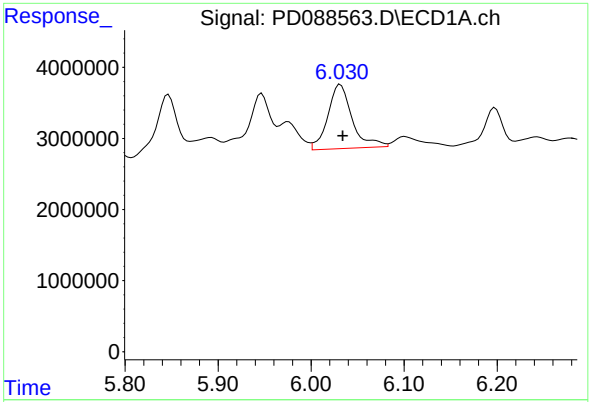
#25 Chlordane-3

R.T.: 5.947 min
Delta R.T.: -0.001 min
Response: 14664589
Conc: 21.74 ng/ml



#25 Chlordane-3

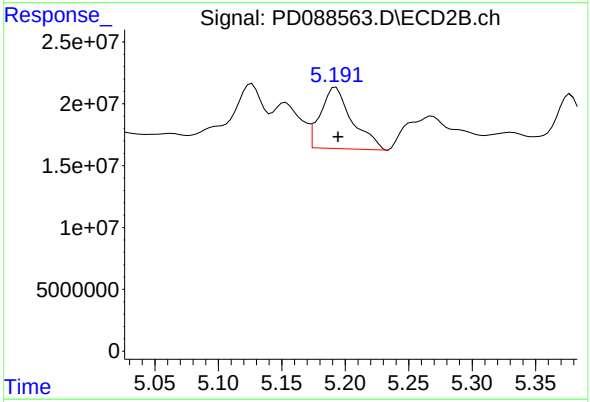
R.T.: 5.126 min
Delta R.T.: -0.003 min
Response: 96037320
Conc: 37.97 ng/ml



#26 Chlordane-4

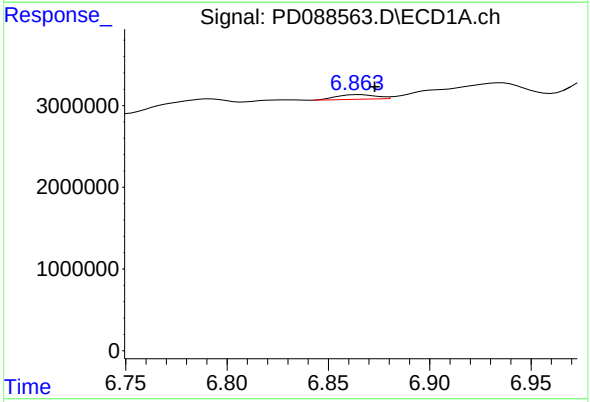
R.T.: 6.032 min
Delta R.T.: -0.002 min
Response: 16354969
Conc: 20.06 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-24-050725



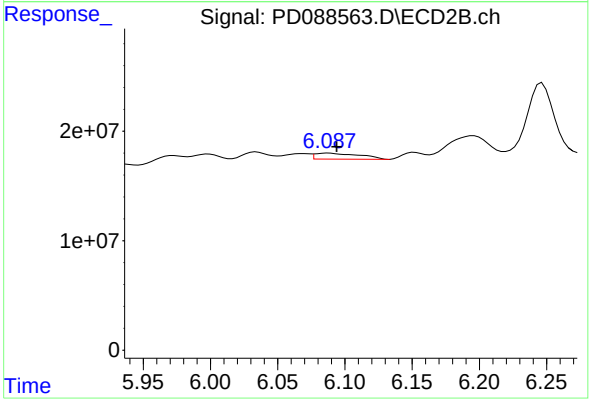
#26 Chlordane-4

R.T.: 5.193 min
Delta R.T.: -0.002 min
Response: 86106638
Conc: 40.27 ng/ml



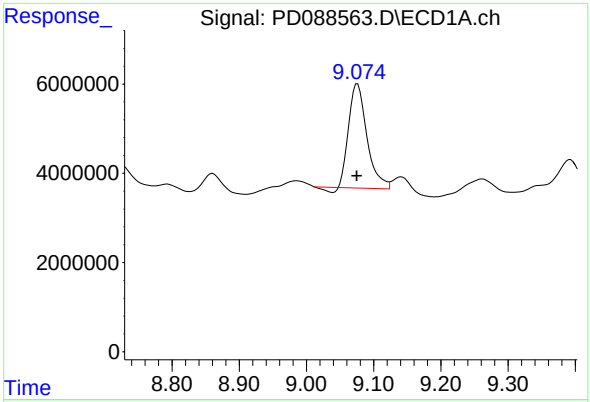
#27 Chlordane-5

R.T.: 6.865 min
Delta R.T.: -0.008 min
Response: 763906
Conc: 5.62 ng/ml



#27 Chlordane-5

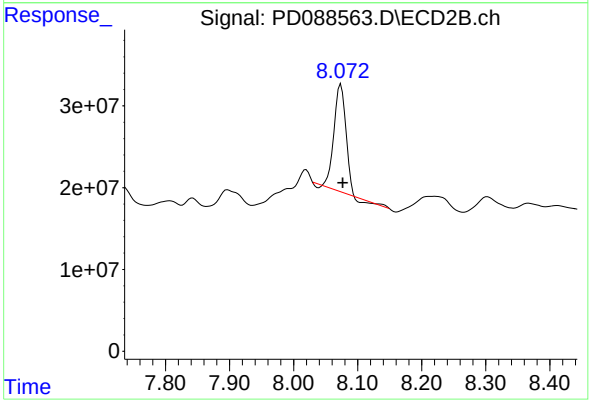
R.T.: 6.088 min
Delta R.T.: -0.006 min
Response: 12776986
Conc: 13.23 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.076 min
Delta R.T.: 0.000 min
Response: 43503827
Conc: 13.15 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-24-050725



#28 Decachlorobiphenyl

R.T.: 8.074 min
Delta R.T.: -0.003 min
Response: 161811199
Conc: 8.76 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088564.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 14:00
Operator : AR\AJ
Sample : Q1984-09
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:19:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	System Monitoring Compounds							
1)	SA Tetrachlo...	3.551	2.882	29663289	203.4E6	14.851	13.912	
28)	SA Decachlor...	9.077	8.074	19510317	100.0E6	5.898	5.412	
	Target Compounds							
2)	A alpha-BHC	4.018f	3.387	13593420	4269560	3.152	0.187	#
3)	MA gamma-BHC...	4.341	3.737	10366275	21066139	2.476	0.978	#
4)	MA Heptachlor	4.956f	4.074	8133501	22736469	2.014	1.063	#
6)	B beta-BHC	4.537f	0.000	949112	0	0.585	N.D.	#
7)	B delta-BHC	4.781f	4.278	10512792	7405512	2.549	0.348	#
8)	B Heptachlo...	5.694	4.873	2124188	4812805	0.594	0.255	#
9)	A Endosulfan I	6.067	5.267f	1104076	45110102	0.327	2.504	#
10)	B gamma-Chl...	5.947	5.126	9663870	70408708	2.668	3.469	#
11)	B alpha-Chl...	6.031	5.193	10855530	62790383	3.007	3.203	
12)	B 4,4'-DDE	6.197	5.377	5864625	44987036	1.778	2.284	#
13)	MA Dieldrin	6.351	5.513	2471366	15955419	0.693	0.800	
14)	MA Endrin	6.579	5.792	1058984	24338992	0.355	1.337	#
15)	B Endosulfa...	6.788	6.109f	1841940	3227747	0.589	0.184	#
16)	A 4,4'-DDD	6.695	5.938	4586215	-4865062	1.824	N.D.	#
17)	MA 4,4'-DDT	7.048f	6.200	3286377	71678987	1.183	4.212	#
18)	B Endrin al...	6.937f	6.247f	6666265	130.3E6	2.888	9.798	#
19)	B Endosulfa...	7.121f	0.000	357169	0	0.124	N.D.	#
20)	A Methoxychlor	7.482	0.000	545613	0	0.364	N.D.	#
21)	B Endrin ke...	0.000	6.975f	0	2715679	N.D.	0.145	#
22)	Mirex	0.000	7.178	0	16725364	N.D.	1.128	#
23)	Chlordane-1	4.718	3.904	-3512809	34505633	N.D.	43.040	
24)	Chlordane-2	5.238	4.492	3321583	8835978	19.946	10.706	#
25)	Chlordane-3	5.947	5.126	9663870	70408708	14.327	27.840	#
26)	Chlordane-4	6.031	5.193	10855530	62790383	13.314	29.367	#
27)	Chlordane-5	6.866	6.109	565117	3227747	4.159	3.343	

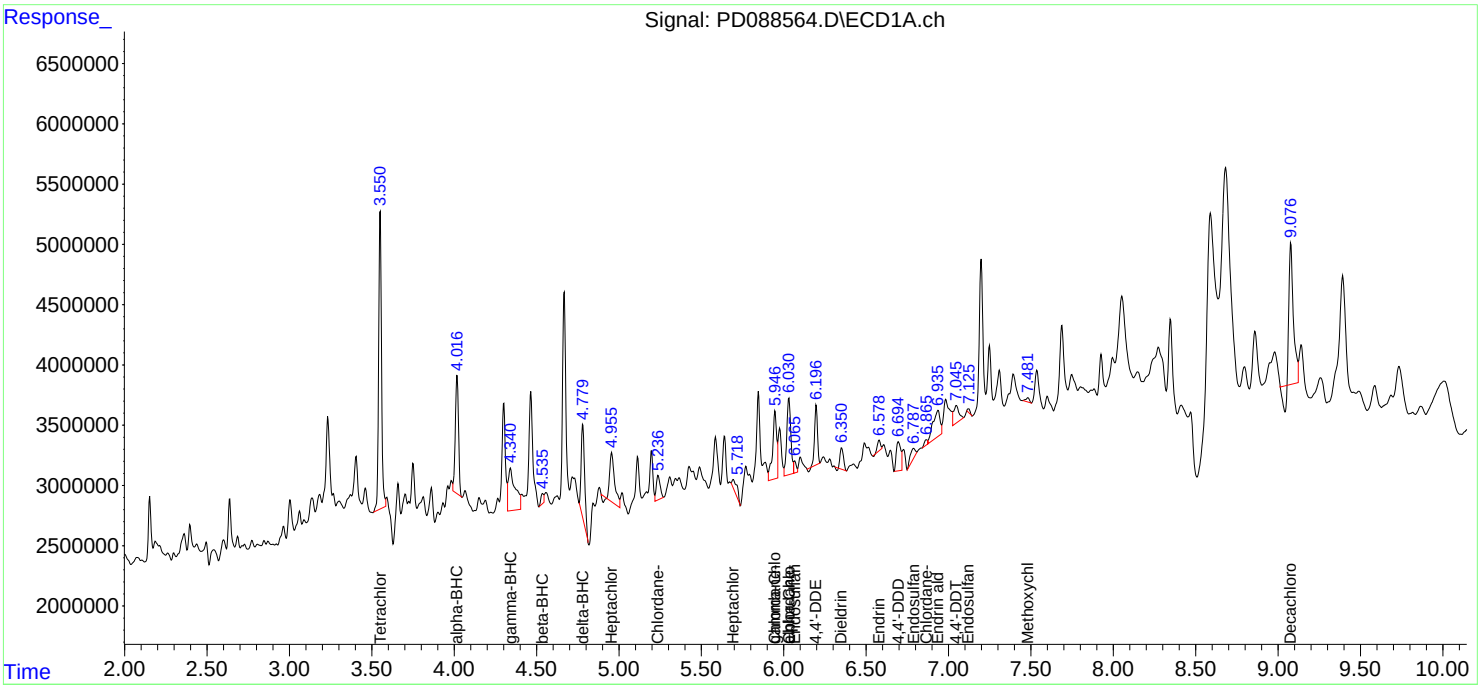
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

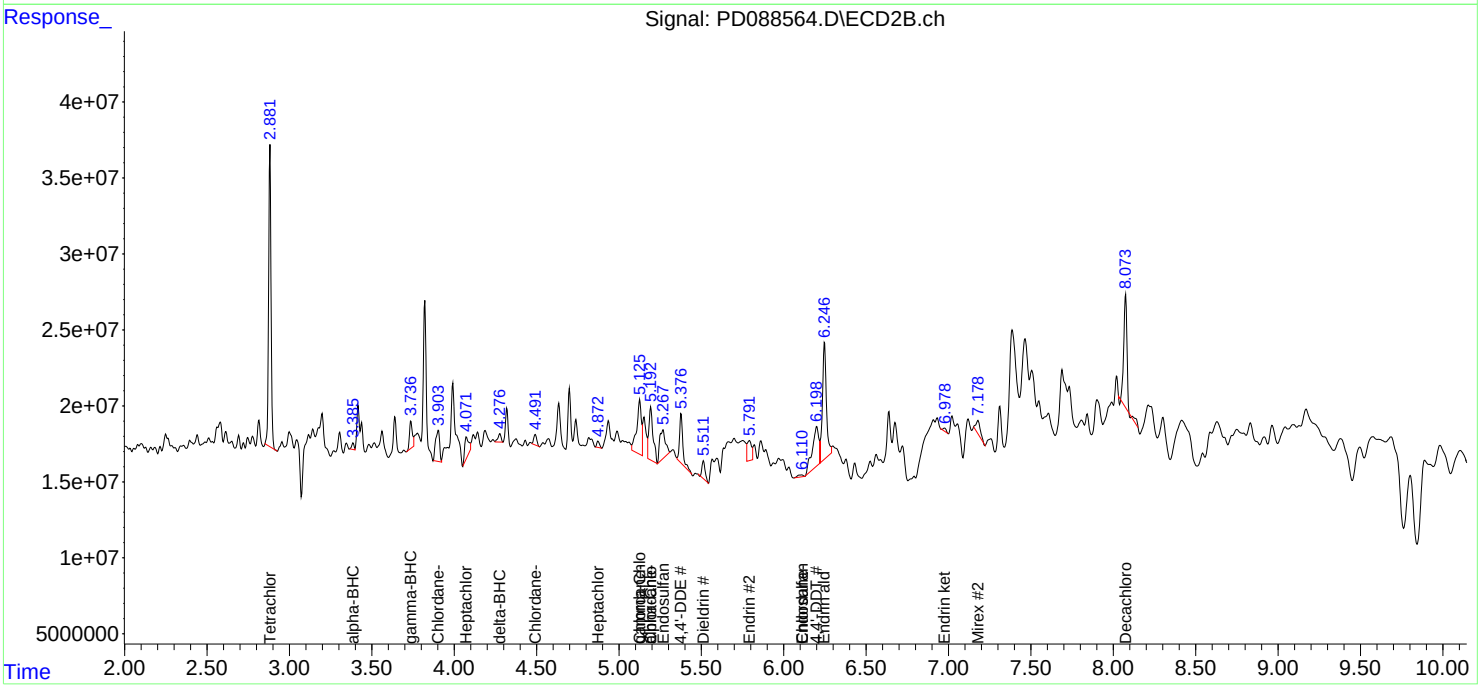
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088564.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 14:00
Operator : AR\AJ
Sample : Q1984-09
Misc :
ALS Vial : 15 Sample Multiplier: 1

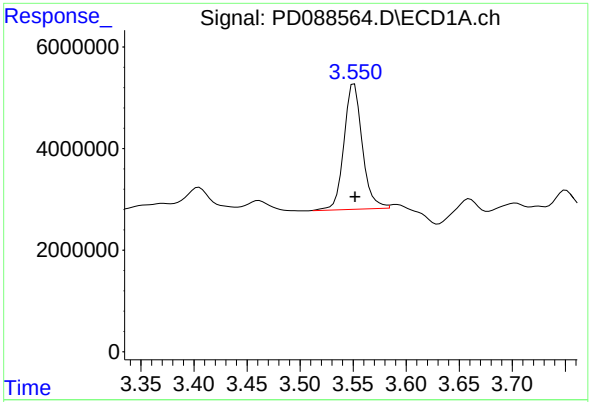
Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:19:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



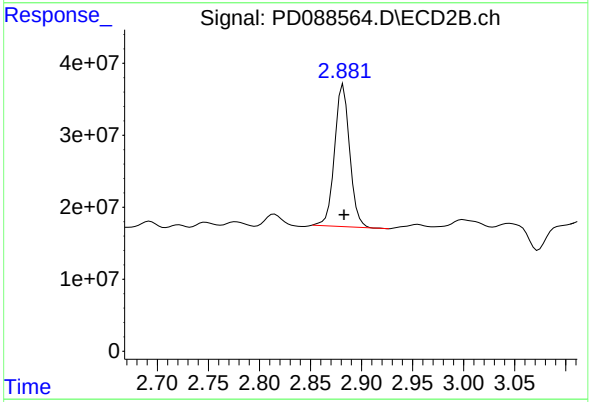




#1 Tetrachloro-m-xylene

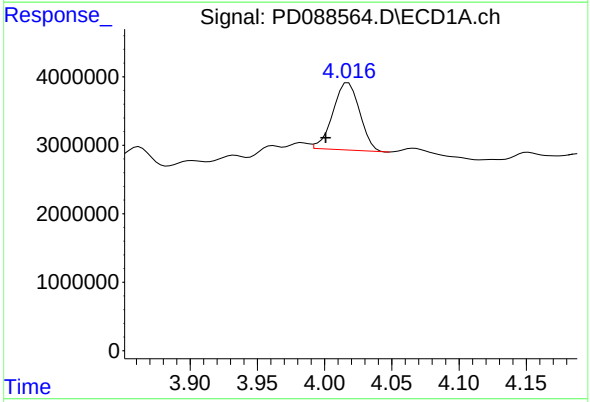
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 29663289
Conc: 14.85 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725



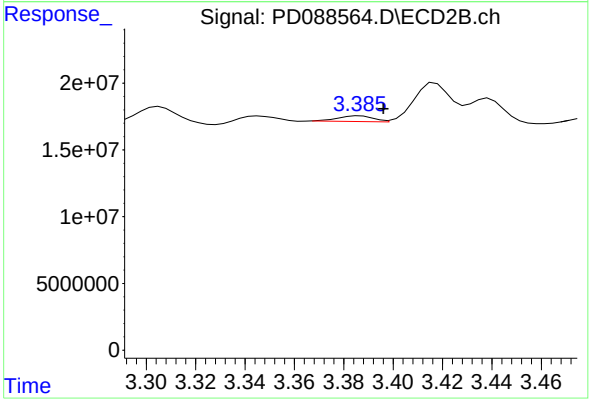
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 203422923
Conc: 13.91 ng/ml



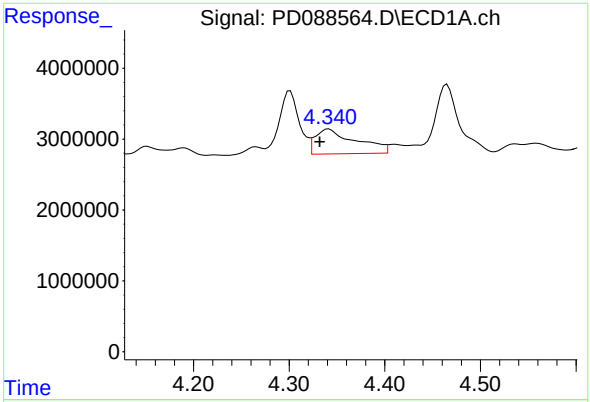
#2 alpha-BHC

R.T.: 4.018 min
Delta R.T.: 0.017 min
Response: 13593420
Conc: 3.15 ng/ml



#2 alpha-BHC

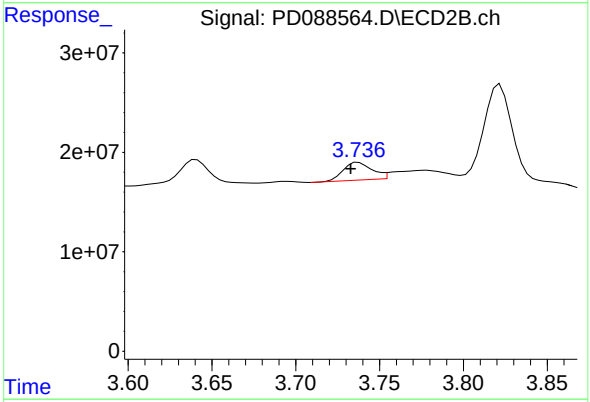
R.T.: 3.387 min
Delta R.T.: -0.009 min
Response: 4269560
Conc: 0.19 ng/ml



#3 gamma-BHC (Lindane)

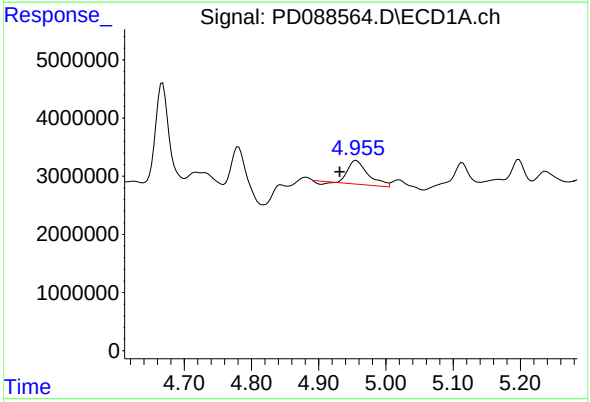
R.T.: 4.341 min
Delta R.T.: 0.010 min
Response: 10366275
Conc: 2.48 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725



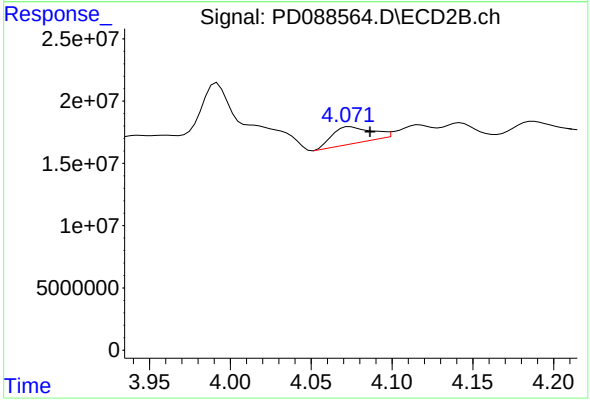
#3 gamma-BHC (Lindane)

R.T.: 3.737 min
Delta R.T.: 0.005 min
Response: 21066139
Conc: 0.98 ng/ml



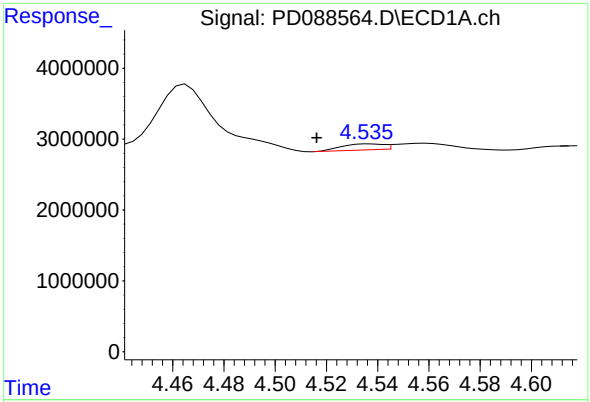
#4 Heptachlor

R.T.: 4.956 min
Delta R.T.: 0.024 min
Response: 8133501
Conc: 2.01 ng/ml



#4 Heptachlor

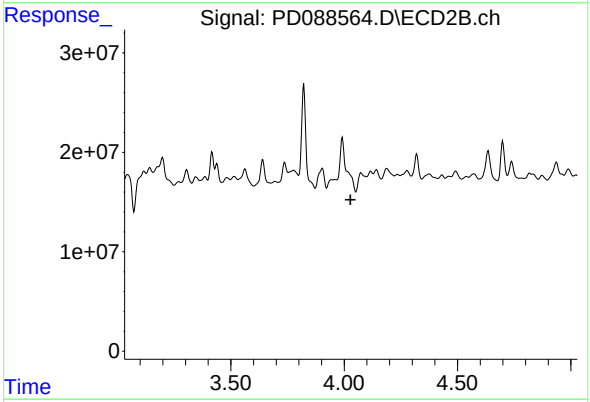
R.T.: 4.074 min
Delta R.T.: -0.012 min
Response: 22736469
Conc: 1.06 ng/ml



#6 beta-BHC

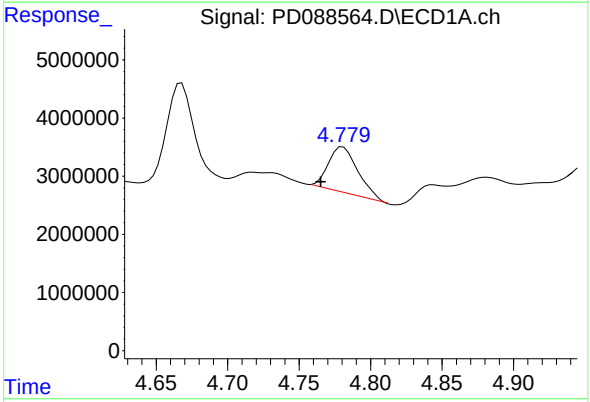
R.T.: 4.537 min
Delta R.T.: 0.021 min
Response: 949112
Conc: 0.58 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725



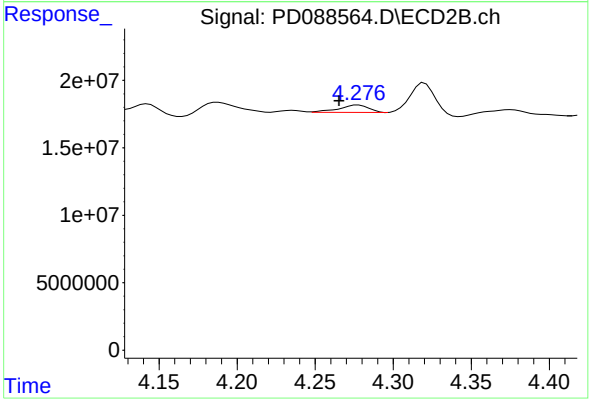
#6 beta-BHC

R.T.: 0.000 min
Exp R.T. : 4.028 min
Response: 0
Conc: N.D.



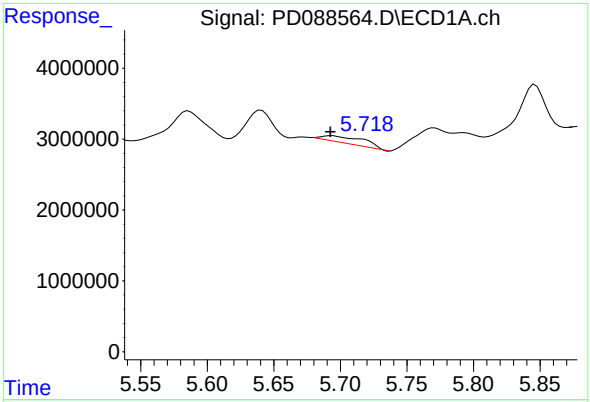
#7 delta-BHC

R.T.: 4.781 min
Delta R.T.: 0.016 min
Response: 10512792
Conc: 2.55 ng/ml



#7 delta-BHC

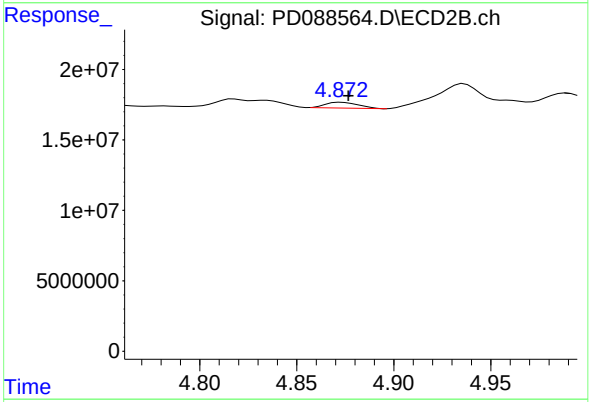
R.T.: 4.278 min
Delta R.T.: 0.012 min
Response: 7405512
Conc: 0.35 ng/ml



#8 Heptachlor epoxide

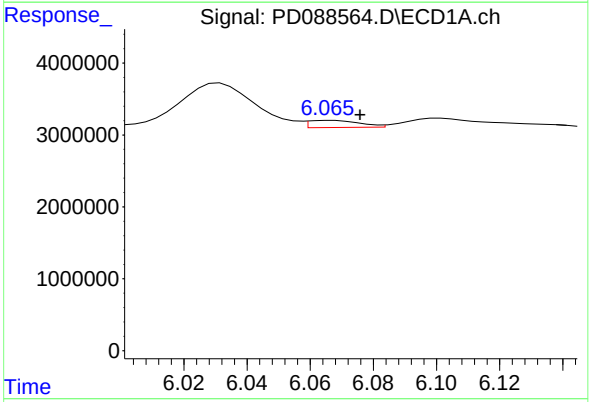
R.T.: 5.694 min
Delta R.T.: 0.001 min
Response: 2124188
Conc: 0.59 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725



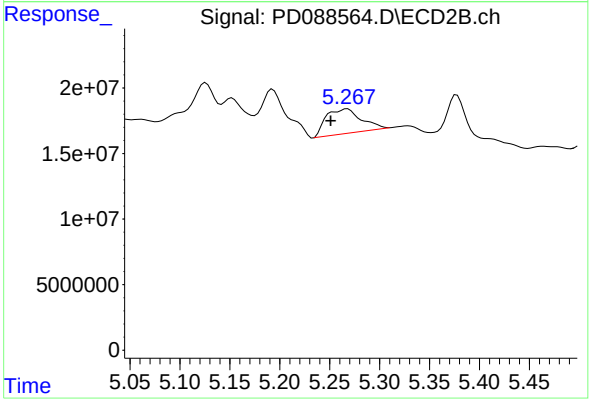
#8 Heptachlor epoxide

R.T.: 4.873 min
Delta R.T.: -0.003 min
Response: 4812805
Conc: 0.25 ng/ml



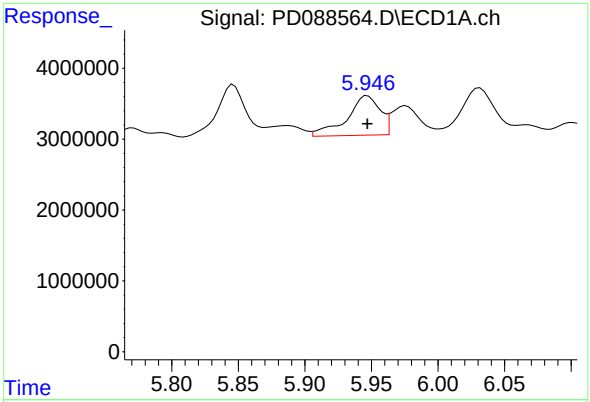
#9 Endosulfan I

R.T.: 6.067 min
Delta R.T.: -0.009 min
Response: 1104076
Conc: 0.33 ng/ml



#9 Endosulfan I

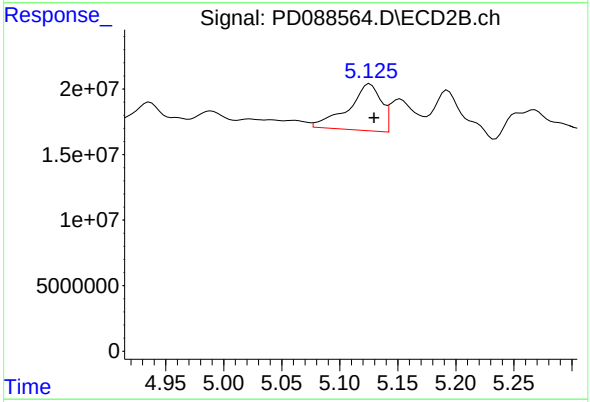
R.T.: 5.267 min
Delta R.T.: 0.016 min
Response: 45110102
Conc: 2.50 ng/ml



#10 gamma-Chlordane

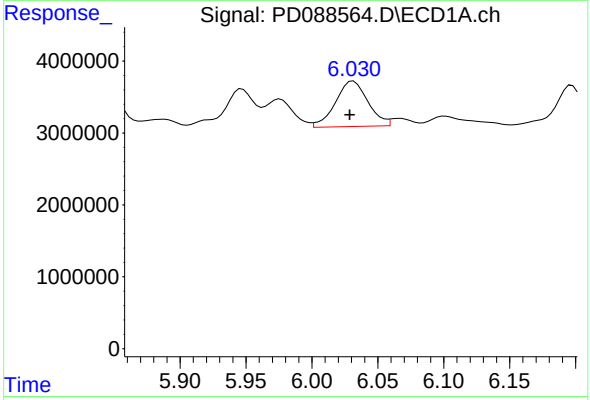
R.T.: 5.947 min
Delta R.T.: 0.000 min
Response: 9663870
Conc: 2.67 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725



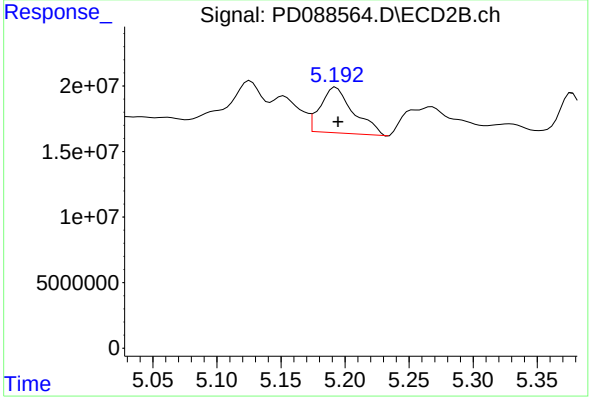
#10 gamma-Chlordane

R.T.: 5.126 min
Delta R.T.: -0.003 min
Response: 70408708
Conc: 3.47 ng/ml



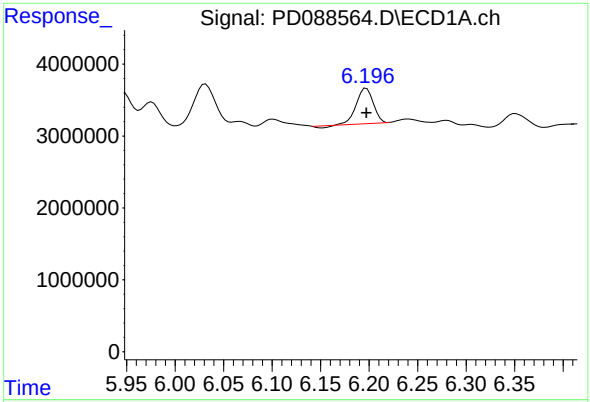
#11 alpha-Chlordane

R.T.: 6.031 min
Delta R.T.: 0.003 min
Response: 10855530
Conc: 3.01 ng/ml



#11 alpha-Chlordane

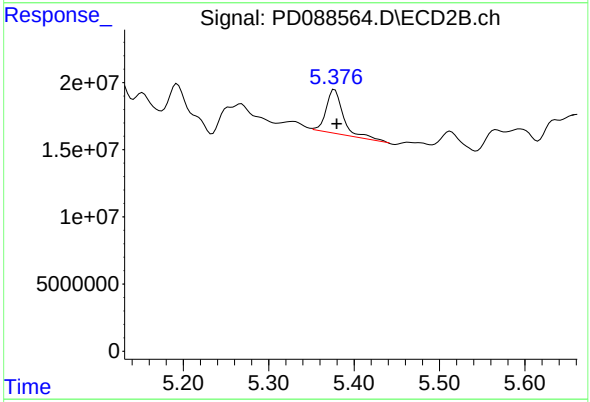
R.T.: 5.193 min
Delta R.T.: -0.001 min
Response: 62790383
Conc: 3.20 ng/ml



#12 4,4'-DDE

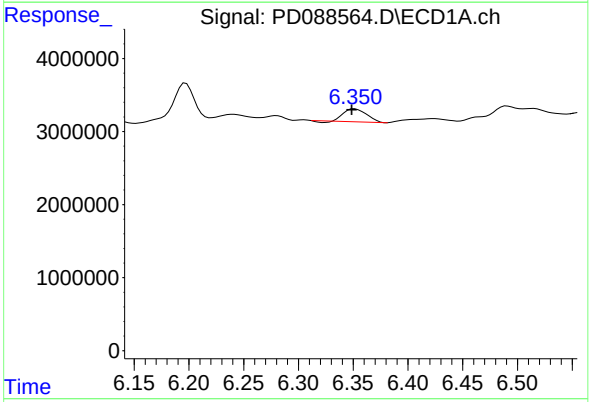
R.T.: 6.197 min
Delta R.T.: 0.000 min
Response: 5864625
Conc: 1.78 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725



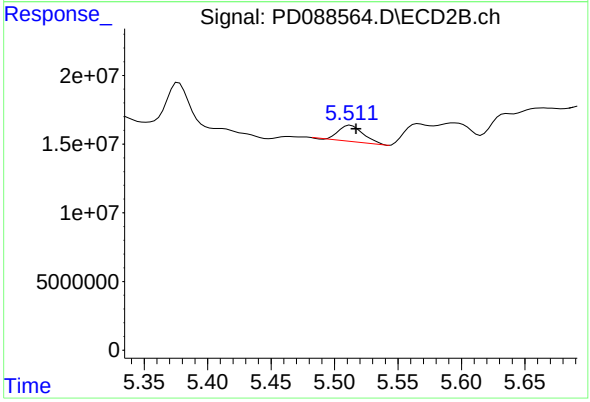
#12 4,4'-DDE

R.T.: 5.377 min
Delta R.T.: -0.002 min
Response: 44987036
Conc: 2.28 ng/ml



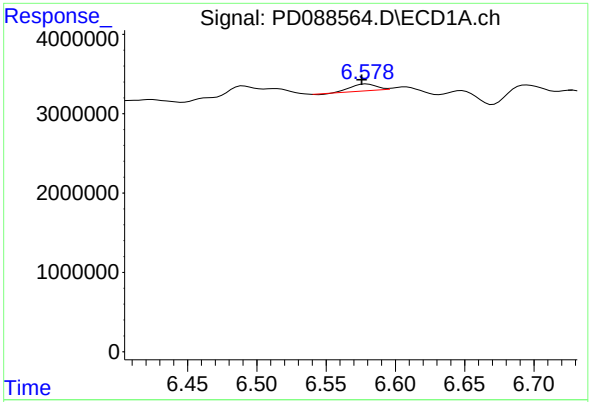
#13 Dieldrin

R.T.: 6.351 min
Delta R.T.: 0.003 min
Response: 2471366
Conc: 0.69 ng/ml



#13 Dieldrin

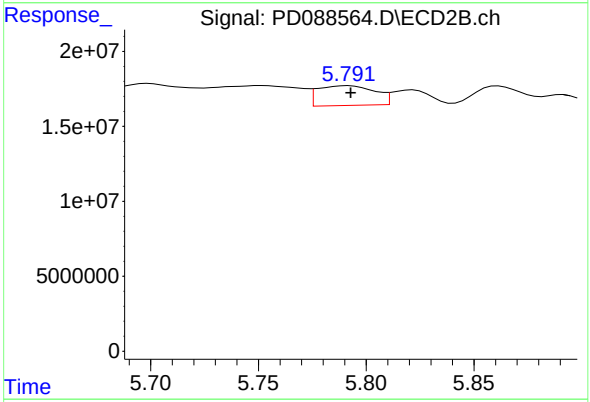
R.T.: 5.513 min
Delta R.T.: -0.004 min
Response: 15955419
Conc: 0.80 ng/ml



#14 Endrin

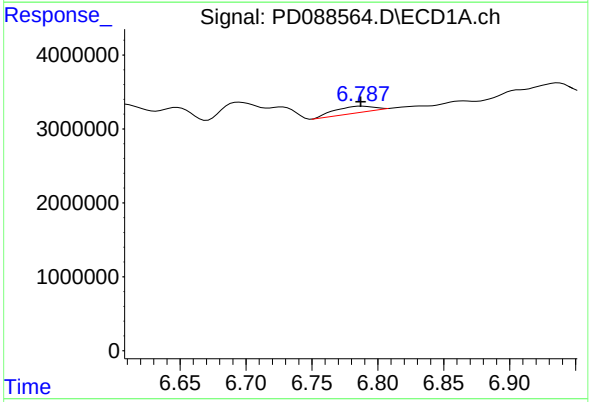
R.T.: 6.579 min
Delta R.T.: 0.004 min
Response: 1058984
Conc: 0.36 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725



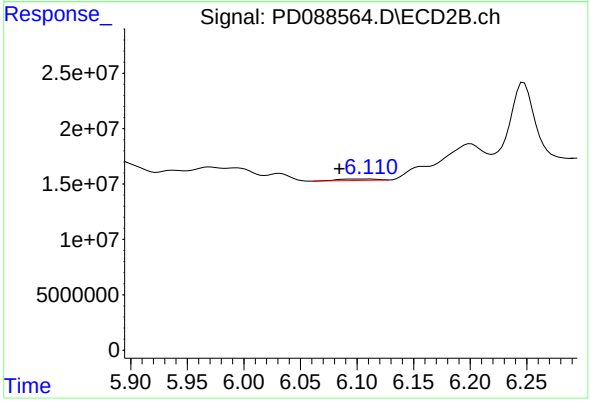
#14 Endrin

R.T.: 5.792 min
Delta R.T.: -0.001 min
Response: 24338992
Conc: 1.34 ng/ml



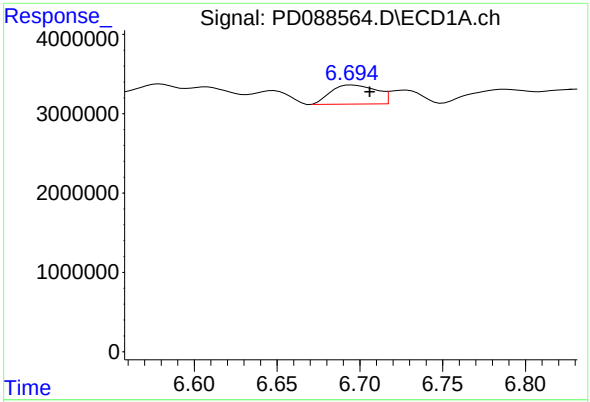
#15 Endosulfan II

R.T.: 6.788 min
Delta R.T.: 0.001 min
Response: 1841940
Conc: 0.59 ng/ml



#15 Endosulfan II

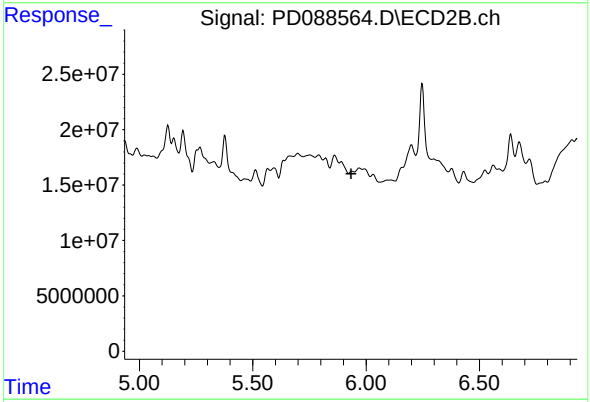
R.T.: 6.109 min
Delta R.T.: 0.024 min
Response: 3227747
Conc: 0.18 ng/ml



#16 4,4'-DDD

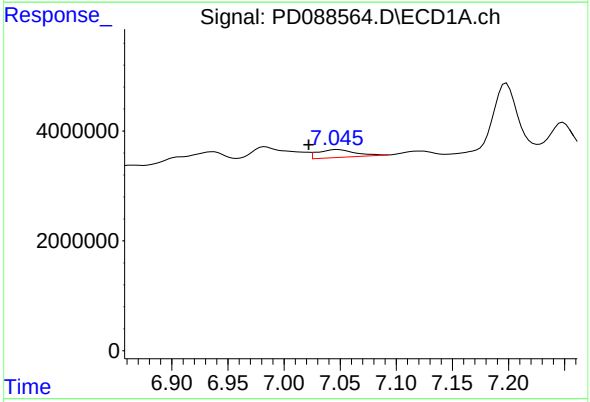
R.T.: 6.695 min
Delta R.T.: -0.011 min
Response: 4586215
Conc: 1.82 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725



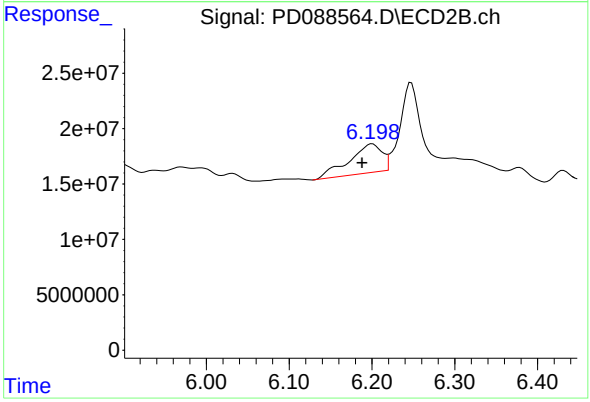
#16 4,4'-DDD

R.T.: 5.938 min
Delta R.T.: 0.004 min
Response: -4865062
Conc: N.D.



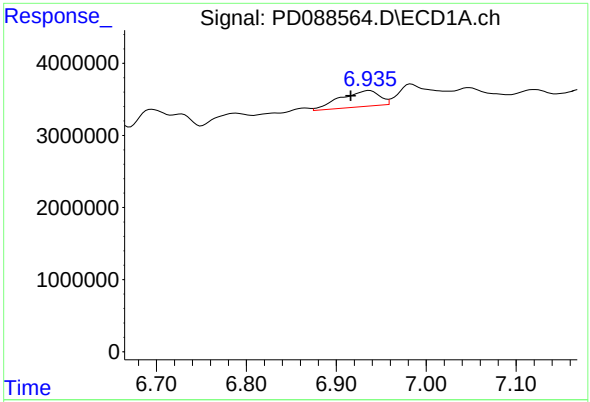
#17 4,4'-DDT

R.T.: 7.048 min
Delta R.T.: 0.026 min
Response: 3286377
Conc: 1.18 ng/ml



#17 4,4'-DDT

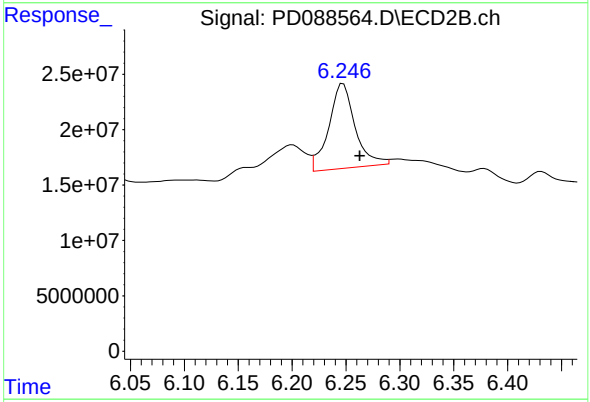
R.T.: 6.200 min
Delta R.T.: 0.012 min
Response: 71678987
Conc: 4.21 ng/ml



#18 Endrin aldehyde

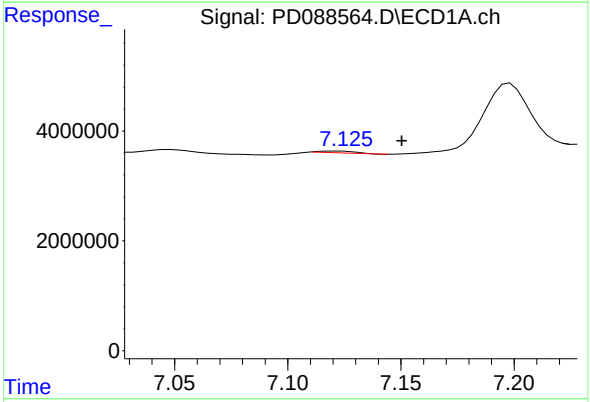
R.T.: 6.937 min
Delta R.T.: 0.021 min
Response: 6666265
Conc: 2.89 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725



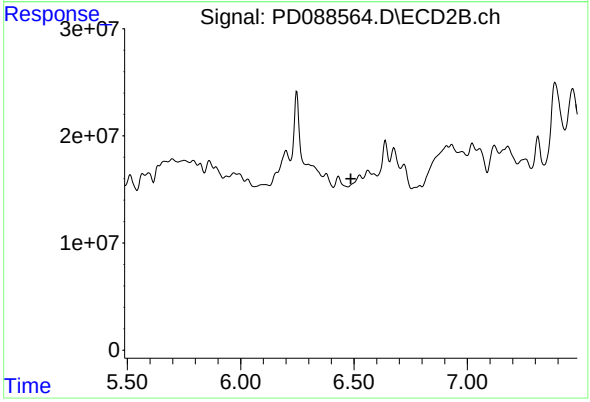
#18 Endrin aldehyde

R.T.: 6.247 min
Delta R.T.: -0.015 min
Response: 130329005
Conc: 9.80 ng/ml



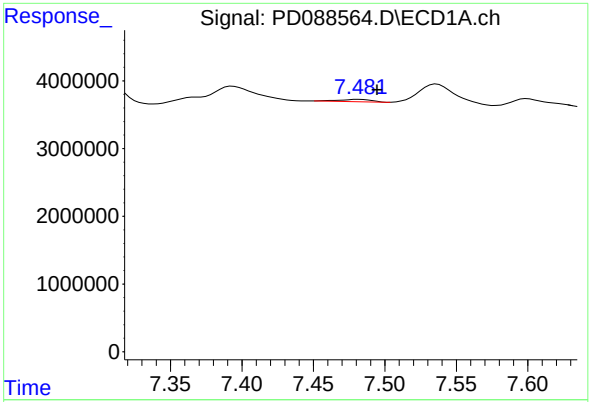
#19 Endosulfan Sulfate

R.T.: 7.121 min
Delta R.T.: -0.029 min
Response: 357169
Conc: 0.12 ng/ml



#19 Endosulfan Sulfate

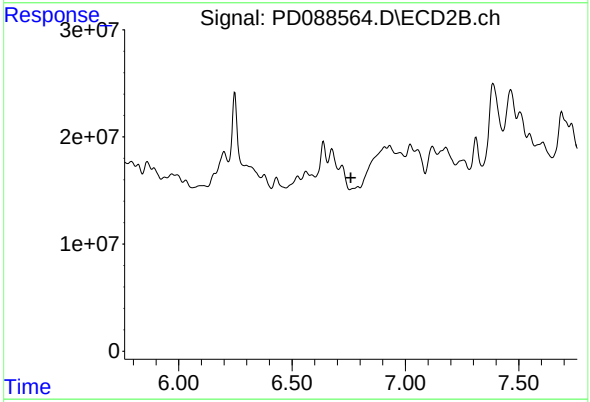
R.T.: 0.000 min
Exp R.T. : 6.486 min
Response: 0
Conc: N.D.



#20 Methoxychlor

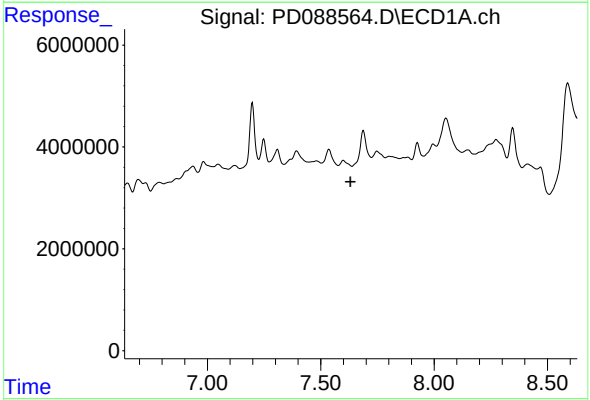
R.T.: 7.482 min
Delta R.T.: -0.013 min
Response: 545613
Conc: 0.36 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725



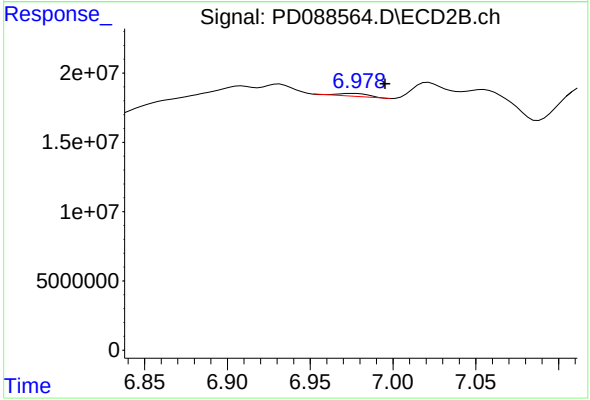
#20 Methoxychlor

R.T.: 0.000 min
Exp R.T. : 6.759 min
Response: 0
Conc: N.D.



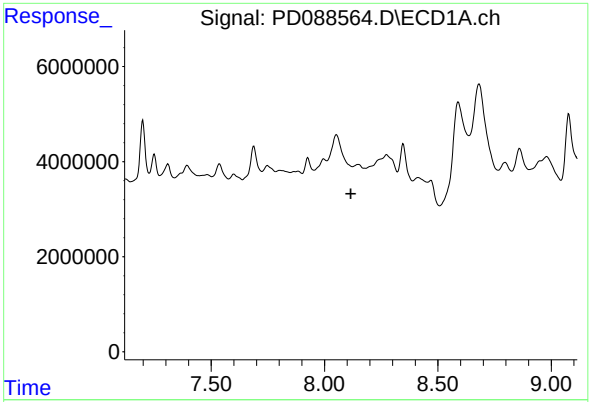
#21 Endrin ketone

R.T.: 0.000 min
Exp R.T. : 7.631 min
Response: 0
Conc: N.D.



#21 Endrin ketone

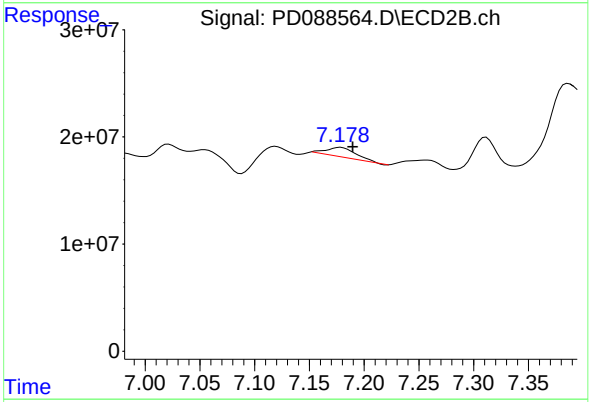
R.T.: 6.975 min
Delta R.T.: -0.020 min
Response: 2715679
Conc: 0.15 ng/ml



#22 Mirex

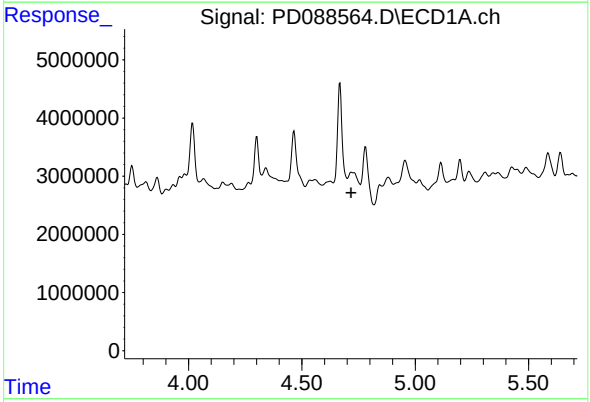
R.T.: 0.000 min
Exp R.T. : 8.115 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725



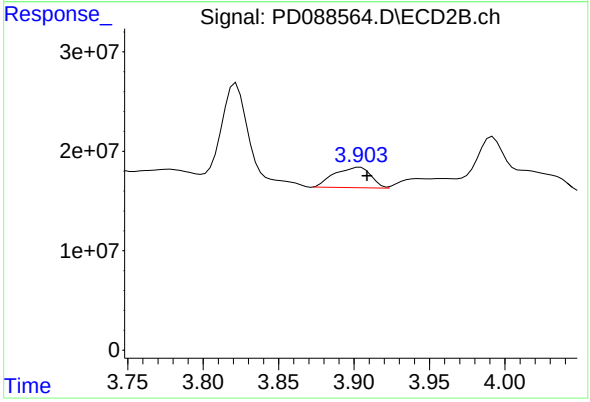
#22 Mirex

R.T.: 7.178 min
Delta R.T.: -0.012 min
Response: 16725364
Conc: 1.13 ng/ml



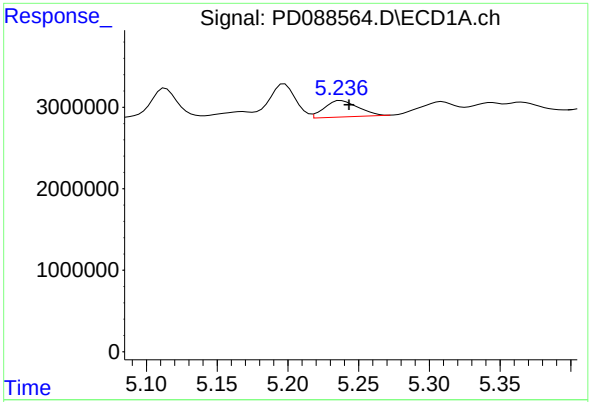
#23 Chlordane-1

R.T.: 4.718 min
Delta R.T.: 0.001 min
Response: -3512809
Conc: N.D.



#23 Chlordane-1

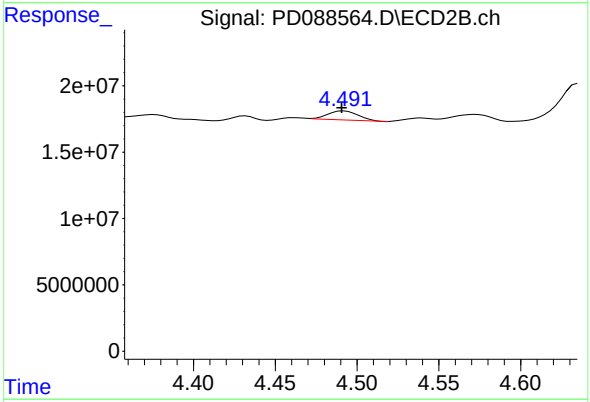
R.T.: 3.904 min
Delta R.T.: -0.005 min
Response: 34505633
Conc: 43.04 ng/ml



#24 Chlordane-2

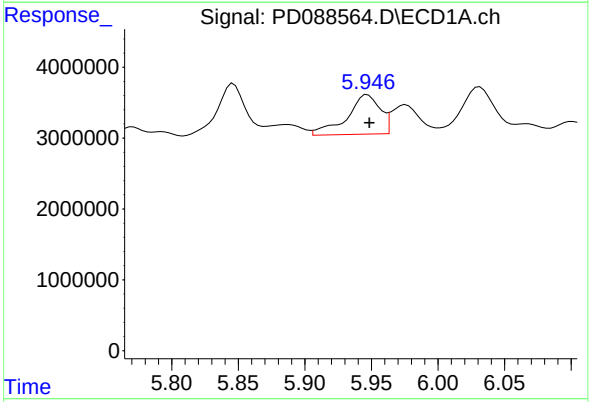
R.T.: 5.238 min
Delta R.T.: -0.006 min
Response: 3321583
Conc: 19.95 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725



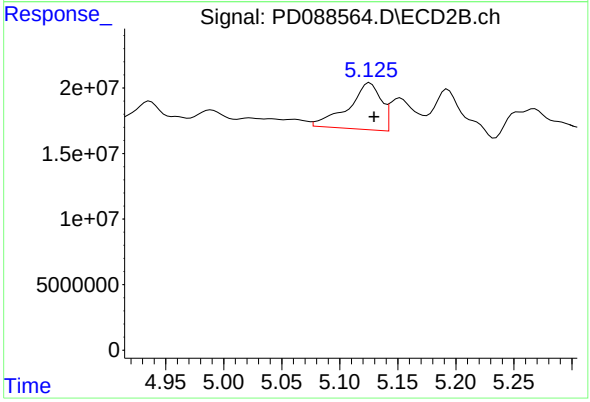
#24 Chlordane-2

R.T.: 4.492 min
Delta R.T.: 0.001 min
Response: 8835978
Conc: 10.71 ng/ml



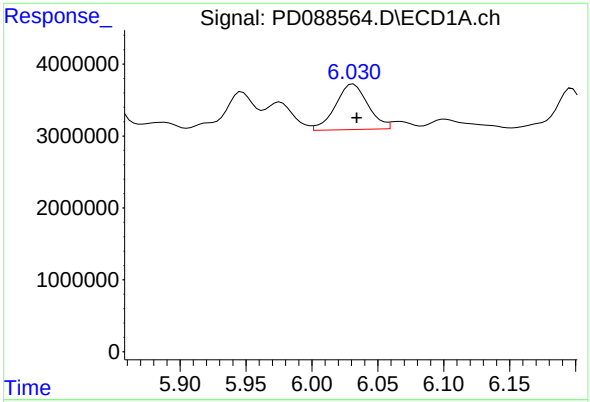
#25 Chlordane-3

R.T.: 5.947 min
Delta R.T.: -0.001 min
Response: 9663870
Conc: 14.33 ng/ml



#25 Chlordane-3

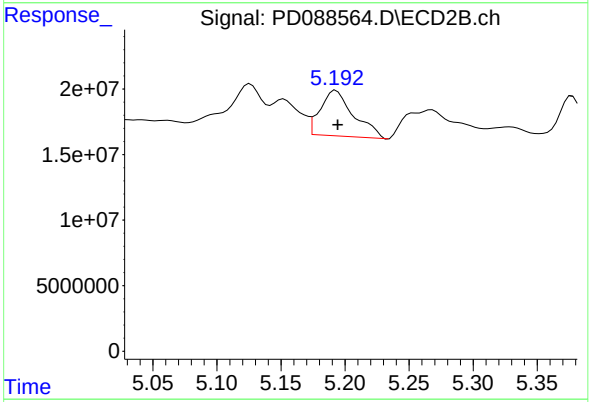
R.T.: 5.126 min
Delta R.T.: -0.004 min
Response: 70408708
Conc: 27.84 ng/ml



#26 Chlordane-4

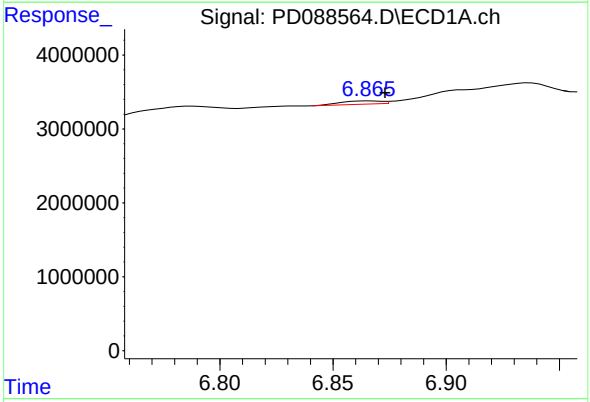
R.T.: 6.031 min
Delta R.T.: -0.003 min
Response: 10855530
Conc: 13.31 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725



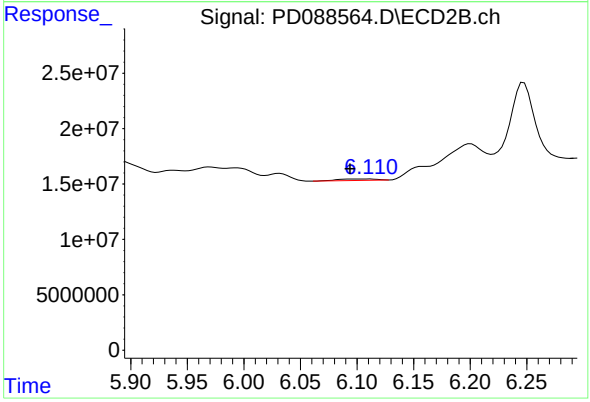
#26 Chlordane-4

R.T.: 5.193 min
Delta R.T.: -0.001 min
Response: 62790383
Conc: 29.37 ng/ml



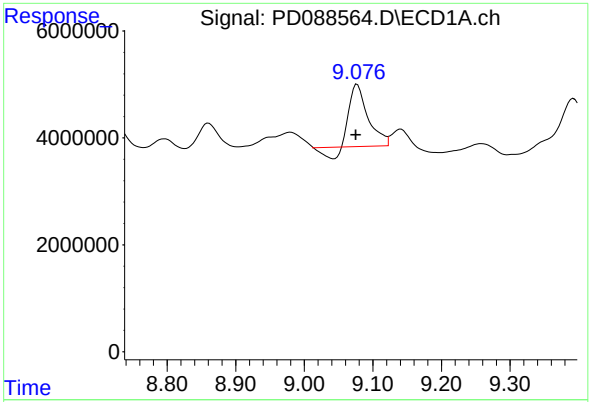
#27 Chlordane-5

R.T.: 6.866 min
Delta R.T.: -0.007 min
Response: 565117
Conc: 4.16 ng/ml



#27 Chlordane-5

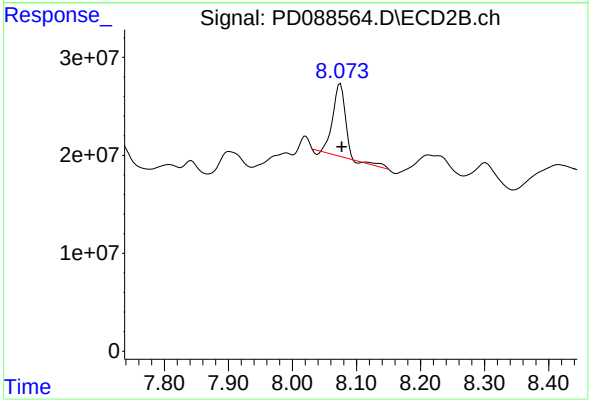
R.T.: 6.109 min
Delta R.T.: 0.015 min
Response: 3227747
Conc: 3.34 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.077 min
Delta R.T.: 0.002 min
Response: 19510317
Conc: 5.90 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725



#28 Decachlorobiphenyl

R.T.: 8.074 min
Delta R.T.: -0.002 min
Response: 100016838
Conc: 5.41 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088565.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 14:14
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument : ECD_D
ClientSampleId : I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:19:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	System Monitoring Compounds							
1)	SA Tetrachlo...	3.552	2.883	39244944	269.4E6	19.648	18.422	
28)	SA Decachlor...	9.077	8.075	46199260	285.7E6	13.965	15.461	
	Target Compounds							
2)	A alpha-BHC	0.000	3.387	0	565009	N.D.	0.025	#
3)	MA gamma-BHC...	4.342	3.740	84180	3027869	0.020	0.141	#
4)	MA Heptachlor	4.917	0.000	995797	0	0.247	N.D.	#
5)	MB Aldrin	5.261	4.369	208756	48847727	0.053	2.348	#
6)	B beta-BHC	0.000	4.046f	0	2701130	N.D.	0.292	#
7)	B delta-BHC	4.779	4.257	5588034	1581157	1.355	0.074	#
8)	B Heptachlo...	5.684	4.886	2657267	2790227	0.744	0.148	#
9)	A Endosulfan I	6.105f	5.230f	6094822	25061141	1.805	1.391	
10)	B gamma-Chl...	5.921f	5.121	16893280	29575779	4.664	1.457	#
11)	B alpha-Chl...	5.999f	0.000	15168520	0	4.202	N.D.	#
14)	MA Endrin	0.000	5.797	0	42367846	N.D.	2.328	#
15)	B Endosulfa...	6.772f	0.000	1546110	0	0.495	N.D.	#
16)	A 4,4'-DDD	6.698	5.918f	5939775	676231	2.362	0.041	#
17)	MA 4,4'-DDT	7.016	0.000	1178593	0	0.424	N.D.	#
18)	B Endrin al...	0.000	6.253	0	76423828	N.D.	5.746	#
19)	B Endosulfa...	7.143	0.000	510414	0	0.177	N.D.	#
20)	A Methoxychlor	7.488	0.000	195433	0	0.130	N.D.	#
23)	Chlordane-1	0.000	3.900	0	2586432	N.D.	3.226	#
24)	Chlordane-2	5.261	4.504	208756	118.4E6	1.254	143.438	#
25)	Chlordane-3	5.921f	5.121	16893280	29575779	25.045	11.694	#
26)	Chlordane-4	0.000	5.230f	0	25061141	N.D.	11.721	#

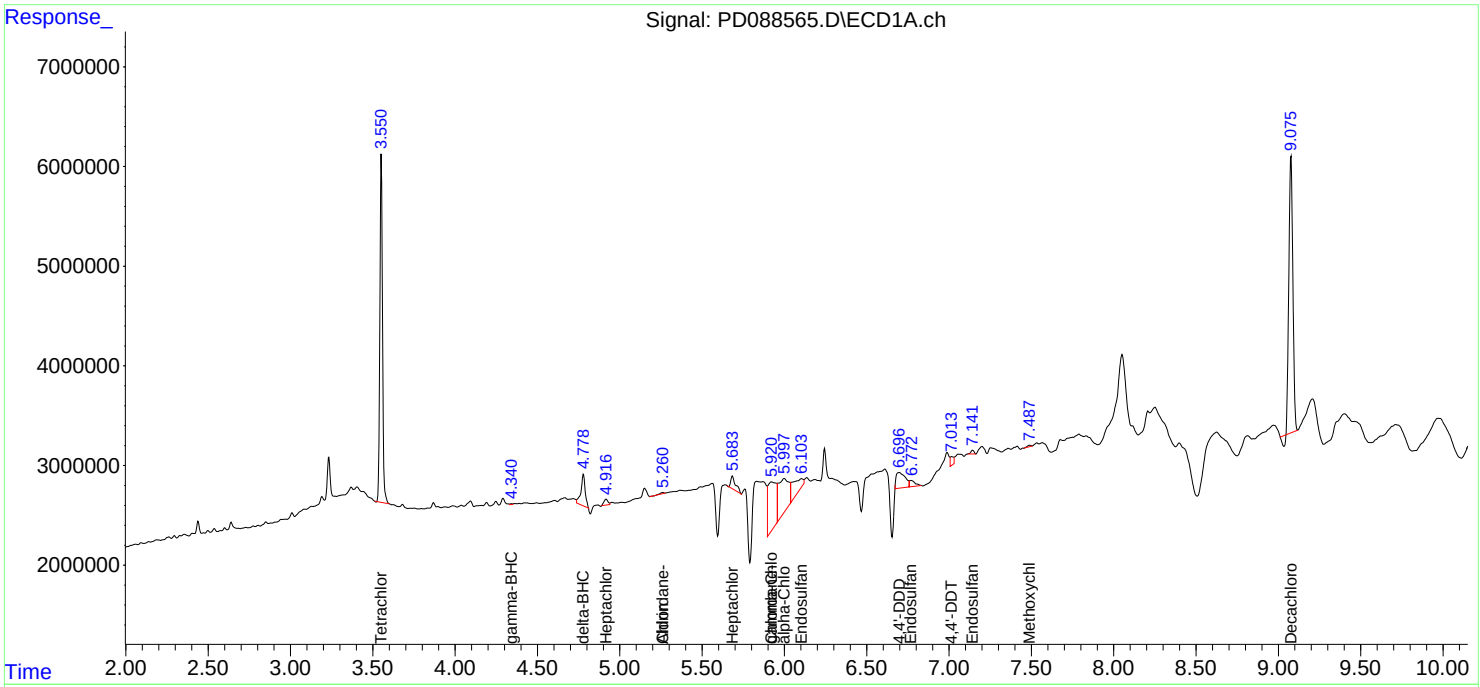
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

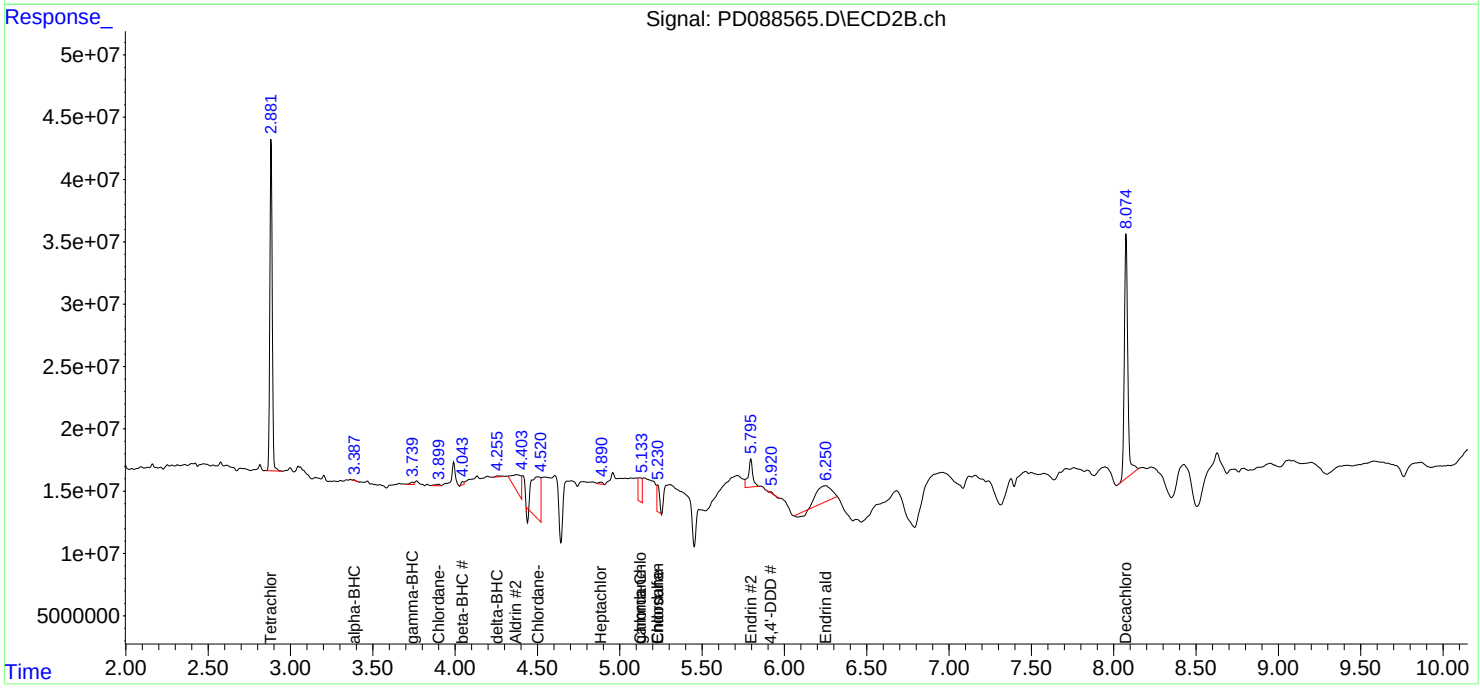
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088565.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 14:14
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

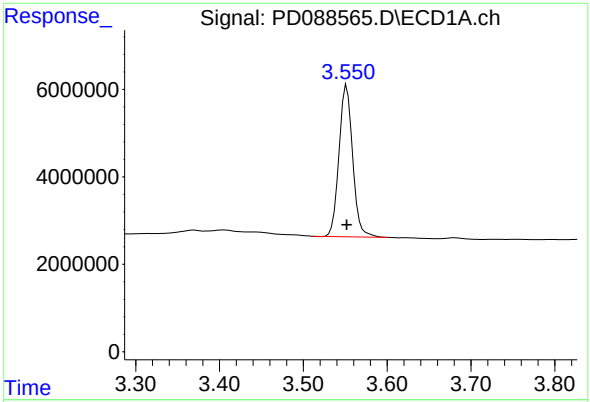
Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:19:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



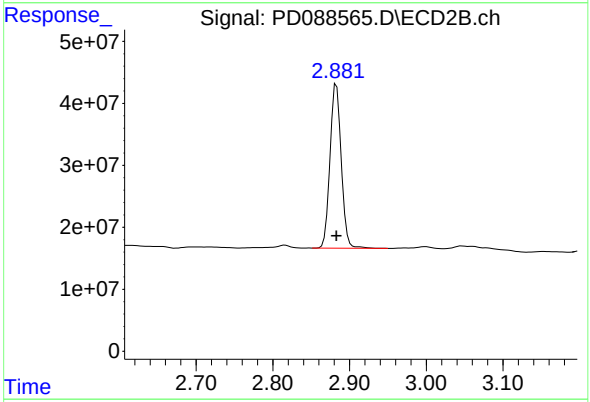




#1 Tetrachloro-m-xylene

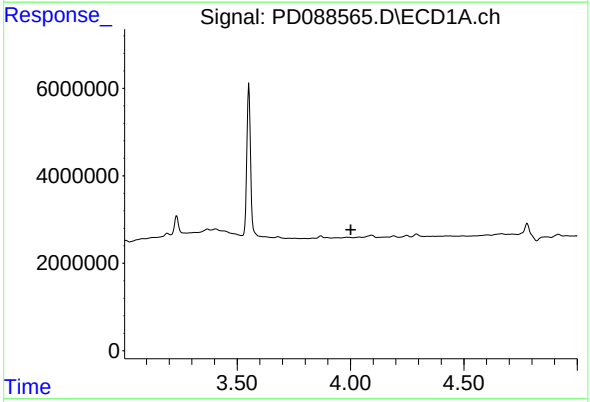
R.T.: 3.552 min
Delta R.T.: 0.000 min
Response: 39244944
Conc: 19.65 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



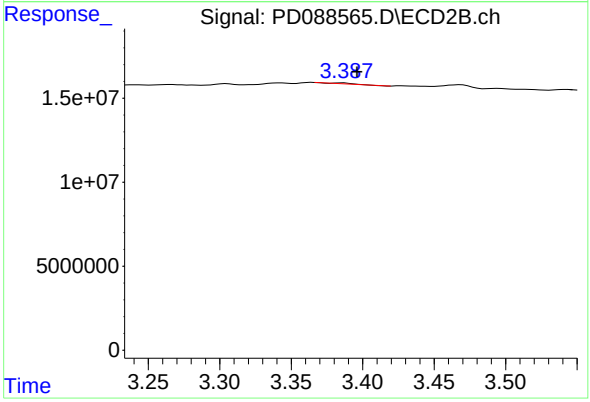
#1 Tetrachloro-m-xylene

R.T.: 2.883 min
Delta R.T.: 0.000 min
Response: 269360733
Conc: 18.42 ng/ml



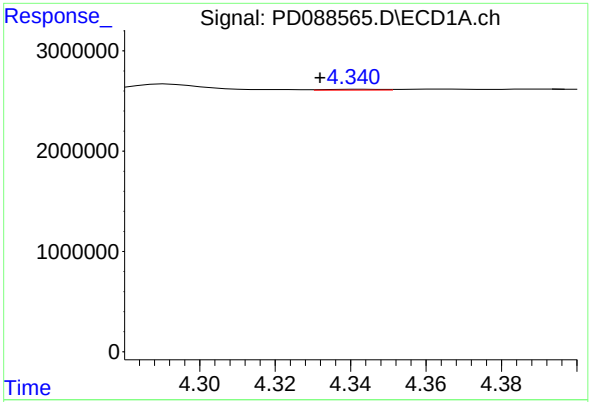
#2 alpha-BHC

R.T.: 0.000 min
Exp R.T. : 4.001 min
Response: 0
Conc: N.D.



#2 alpha-BHC

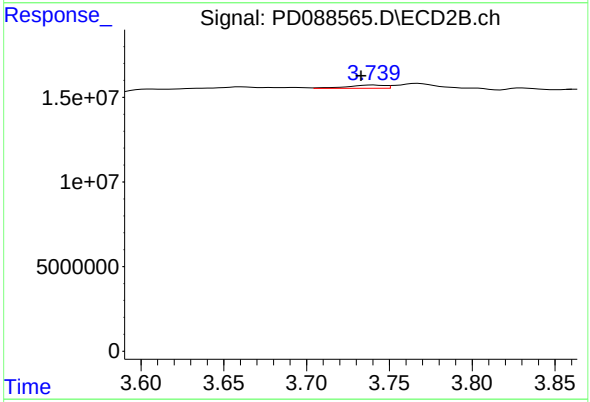
R.T.: 3.387 min
Delta R.T.: -0.009 min
Response: 565009
Conc: 0.02 ng/ml



#3 gamma-BHC (Lindane)

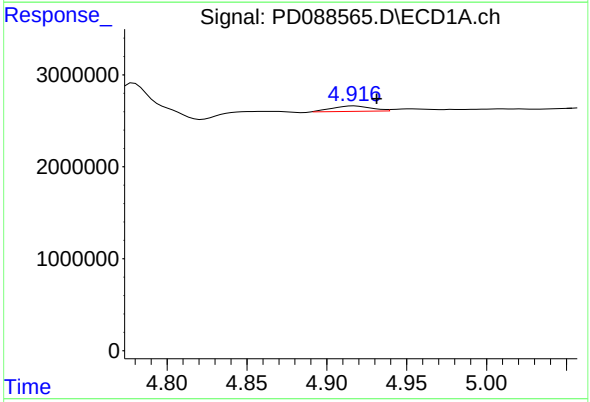
R.T.: 4.342 min
Delta R.T.: 0.010 min
Response: 84180
Conc: 0.02 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



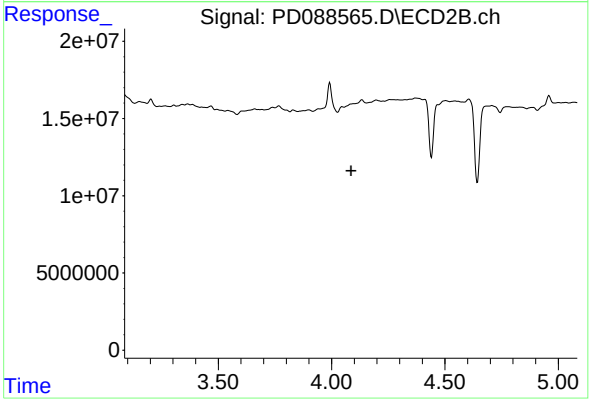
#3 gamma-BHC (Lindane)

R.T.: 3.740 min
Delta R.T.: 0.007 min
Response: 3027869
Conc: 0.14 ng/ml



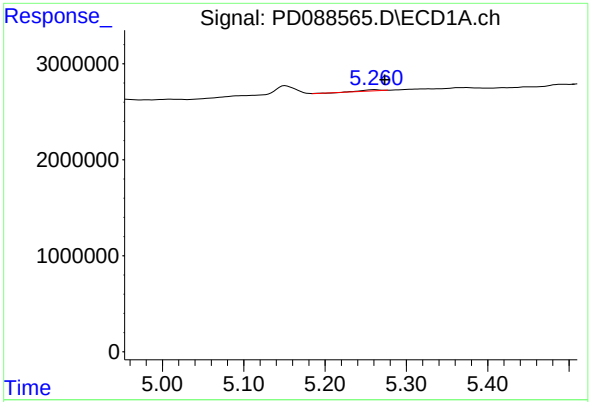
#4 Heptachlor

R.T.: 4.917 min
Delta R.T.: -0.014 min
Response: 995797
Conc: 0.25 ng/ml



#4 Heptachlor

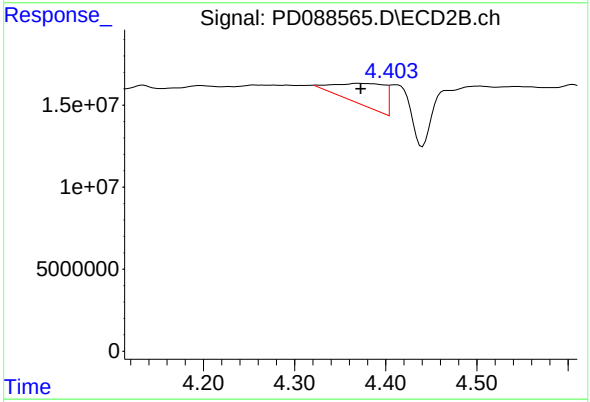
R.T.: 0.000 min
Exp R.T. : 4.086 min
Response: 0
Conc: N.D.



#5 Aldrin

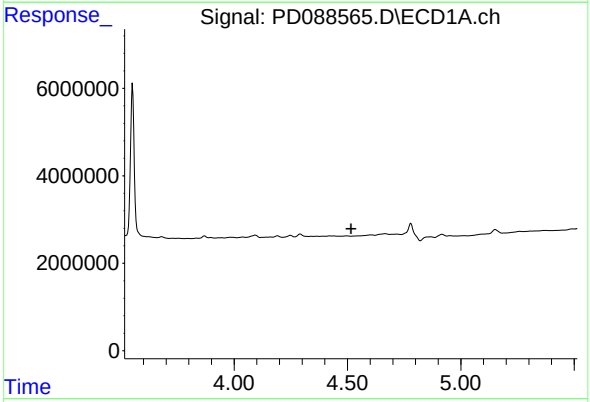
R.T.: 5.261 min
Delta R.T.: -0.012 min
Response: 208756
Conc: 0.05 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



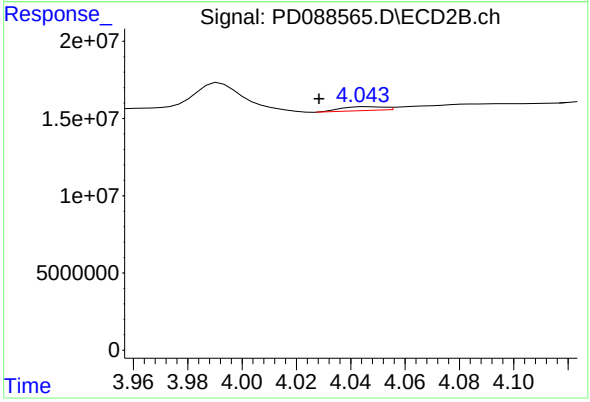
#5 Aldrin

R.T.: 4.369 min
Delta R.T.: -0.003 min
Response: 48847727
Conc: 2.35 ng/ml



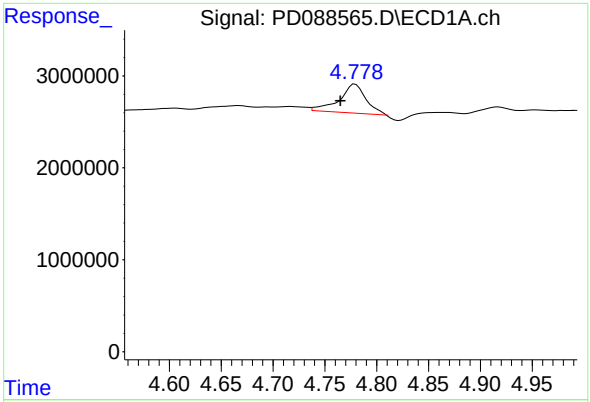
#6 beta-BHC

R.T.: 0.000 min
Exp R.T. : 4.516 min
Response: 0
Conc: N.D.



#6 beta-BHC

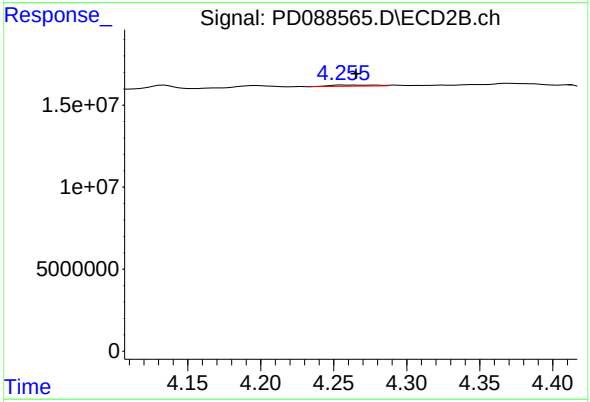
R.T.: 4.046 min
Delta R.T.: 0.018 min
Response: 2701130
Conc: 0.29 ng/ml



#7 delta-BHC

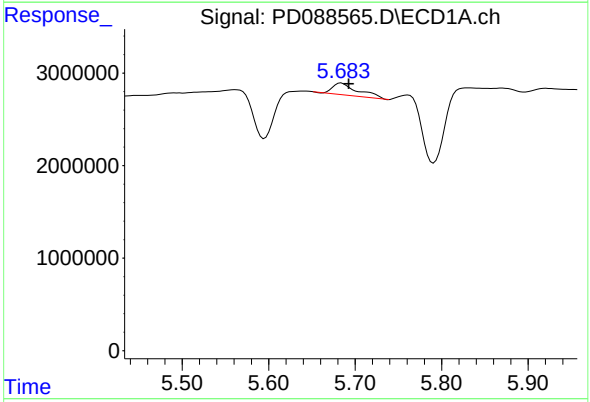
R.T.: 4.779 min
Delta R.T.: 0.014 min
Response: 5588034
Conc: 1.35 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



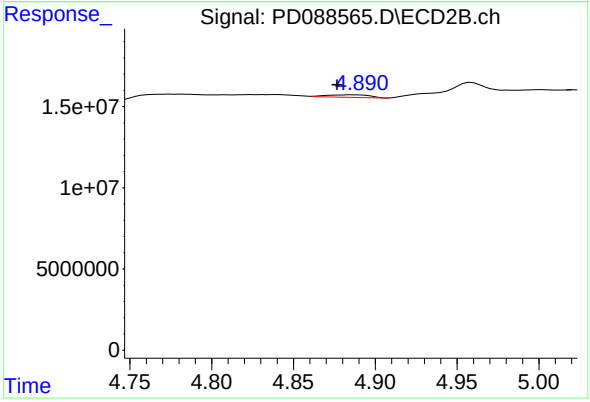
#7 delta-BHC

R.T.: 4.257 min
Delta R.T.: -0.009 min
Response: 1581157
Conc: 0.07 ng/ml



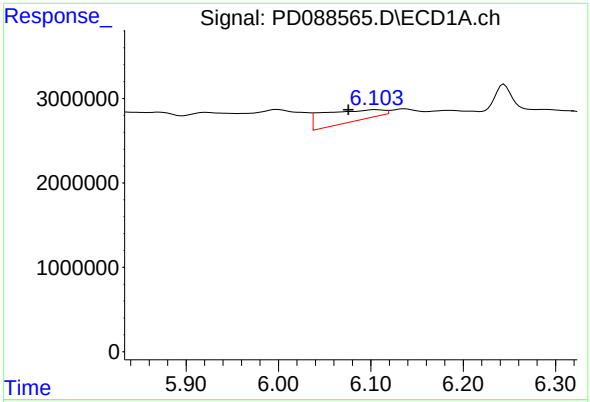
#8 Heptachlor epoxide

R.T.: 5.684 min
Delta R.T.: -0.008 min
Response: 2657267
Conc: 0.74 ng/ml



#8 Heptachlor epoxide

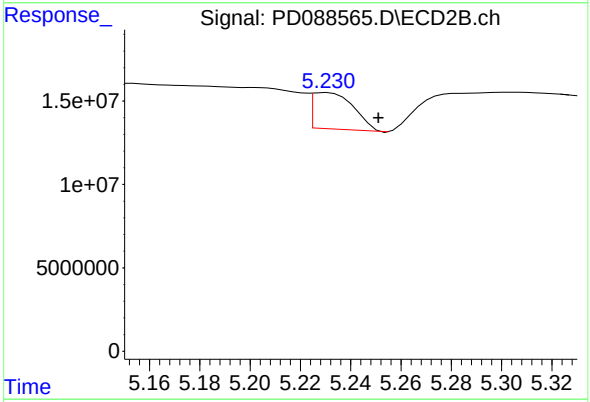
R.T.: 4.886 min
Delta R.T.: 0.009 min
Response: 2790227
Conc: 0.15 ng/ml



#9 Endosulfan I

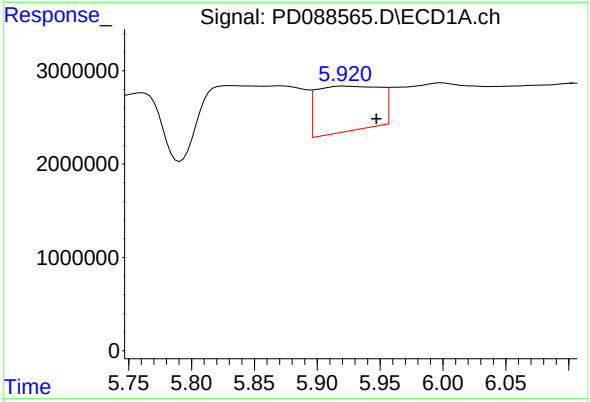
R.T.: 6.105 min
Delta R.T.: 0.029 min
Response: 6094822
Conc: 1.80 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



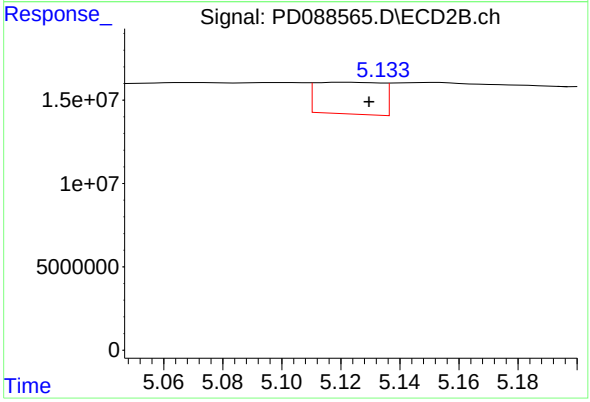
#9 Endosulfan I

R.T.: 5.230 min
Delta R.T.: -0.021 min
Response: 25061141
Conc: 1.39 ng/ml



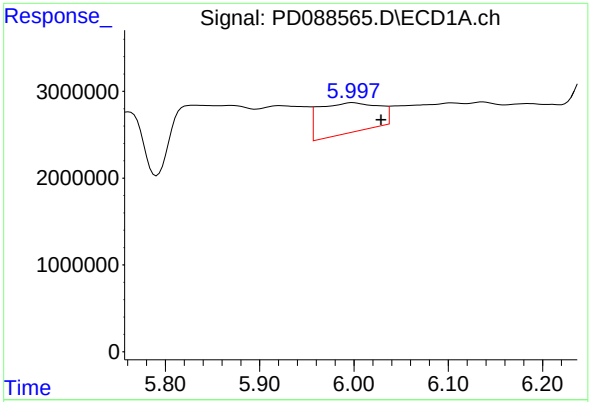
#10 gamma-Chlordane

R.T.: 5.921 min
Delta R.T.: -0.026 min
Response: 16893280
Conc: 4.66 ng/ml



#10 gamma-Chlordane

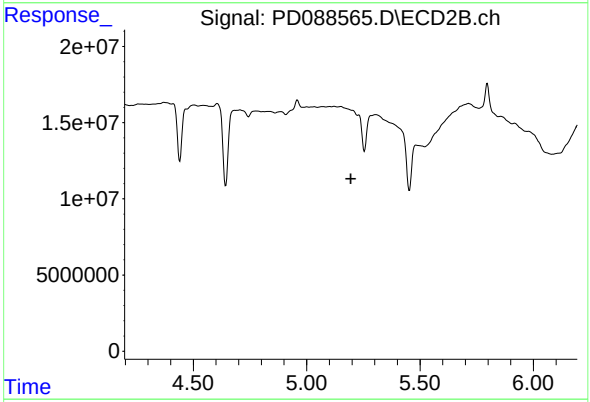
R.T.: 5.121 min
Delta R.T.: -0.009 min
Response: 29575779
Conc: 1.46 ng/ml



#11 alpha-Chlordane

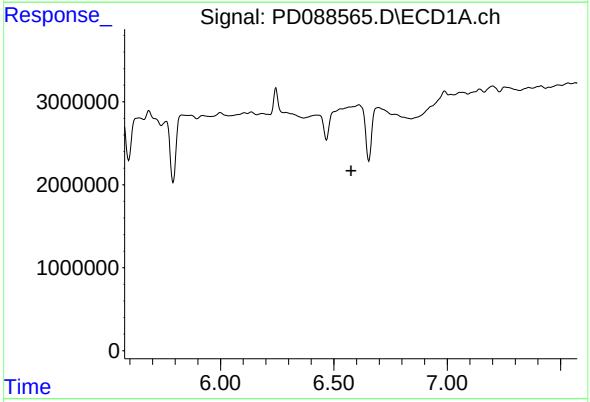
R.T.: 5.999 min
Delta R.T.: -0.030 min
Response: 15168520
Conc: 4.20 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



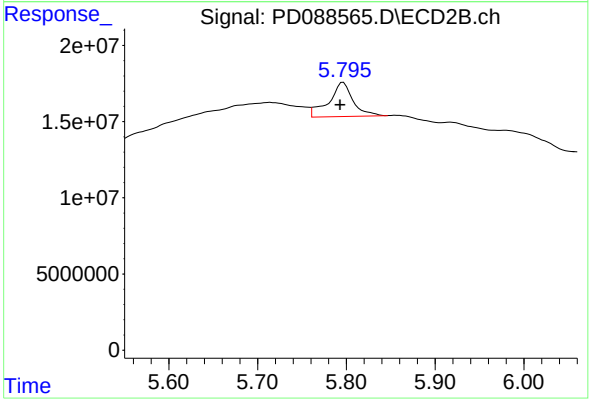
#11 alpha-Chlordane

R.T.: 0.000 min
Exp R.T. : 5.194 min
Response: 0
Conc: N.D.



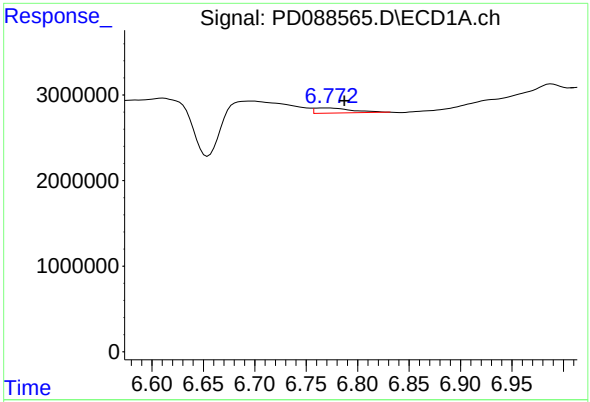
#14 Endrin

R.T.: 0.000 min
Exp R.T. : 6.576 min
Response: 0
Conc: N.D.



#14 Endrin

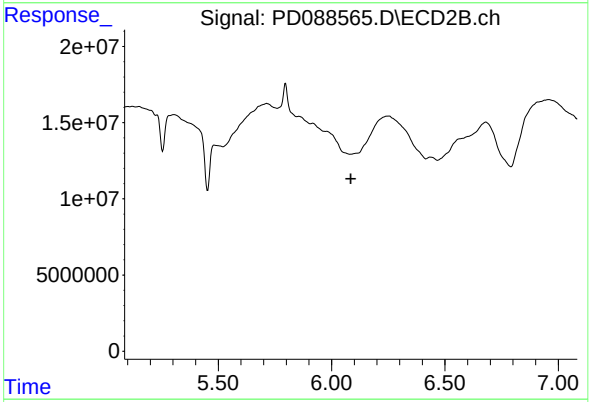
R.T.: 5.797 min
Delta R.T.: 0.004 min
Response: 42367846
Conc: 2.33 ng/ml



#15 Endosulfan II

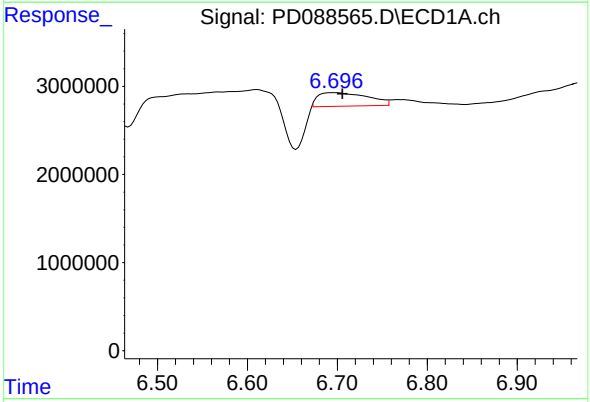
R.T.: 6.772 min
Delta R.T.: -0.015 min
Response: 1546110
Conc: 0.49 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



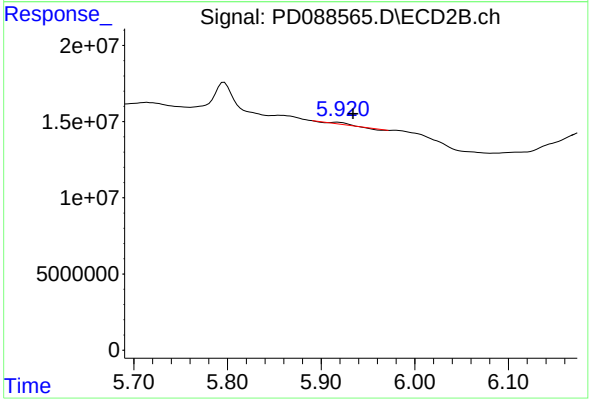
#15 Endosulfan II

R.T.: 0.000 min
Exp R.T. : 6.084 min
Response: 0
Conc: N.D.



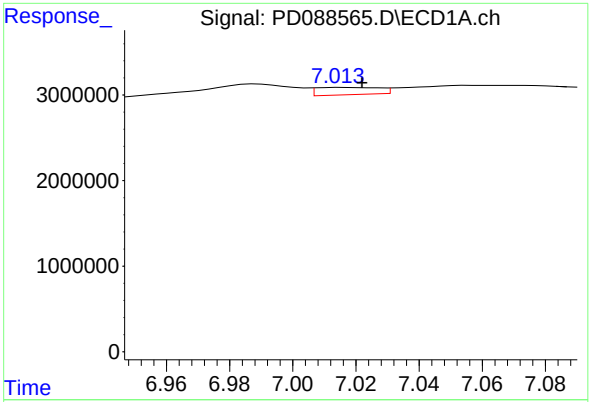
#16 4,4'-DDD

R.T.: 6.698 min
Delta R.T.: -0.008 min
Response: 5939775
Conc: 2.36 ng/ml



#16 4,4'-DDD

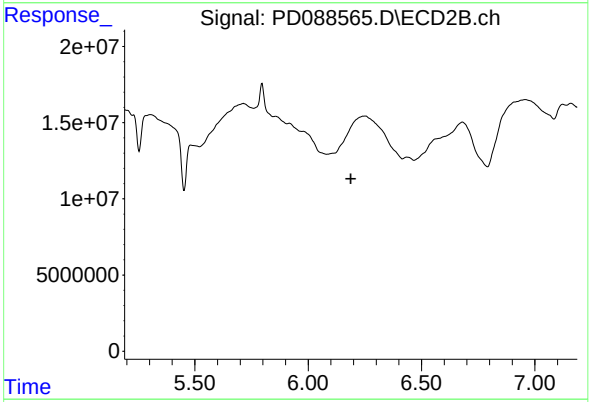
R.T.: 5.918 min
Delta R.T.: -0.016 min
Response: 676231
Conc: 0.04 ng/ml



#17 4,4'-DDT

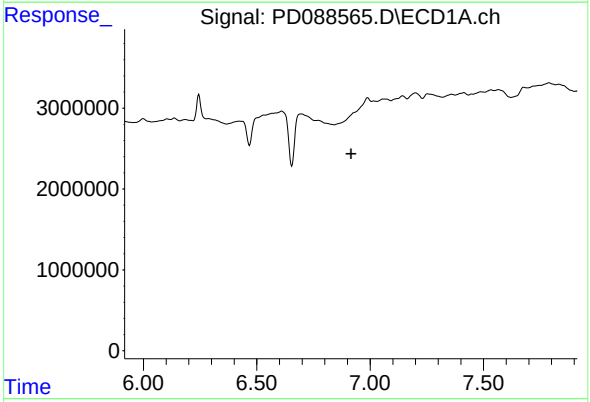
R.T.: 7.016 min
Delta R.T.: -0.006 min
Response: 1178593
Conc: 0.42 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



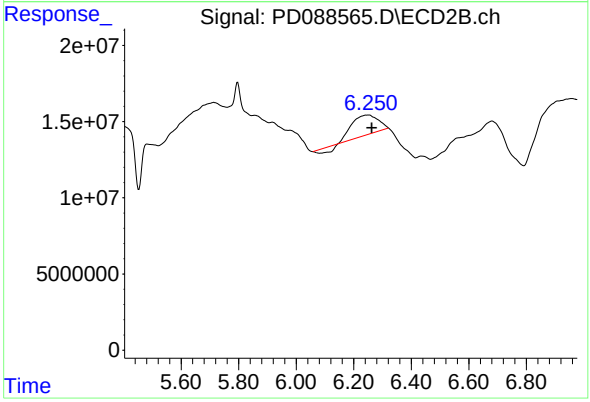
#17 4,4'-DDT

R.T.: 0.000 min
Exp R.T. : 6.188 min
Response: 0
Conc: N.D.



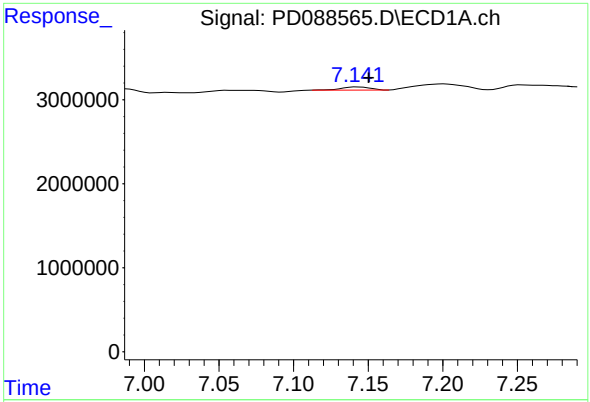
#18 Endrin aldehyde

R.T.: 0.000 min
Exp R.T. : 6.916 min
Response: 0
Conc: N.D.



#18 Endrin aldehyde

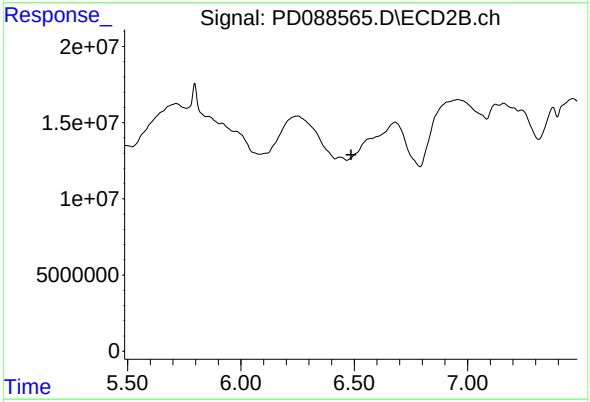
R.T.: 6.253 min
Delta R.T.: -0.010 min
Response: 76423828
Conc: 5.75 ng/ml



#19 Endosulfan Sulfate

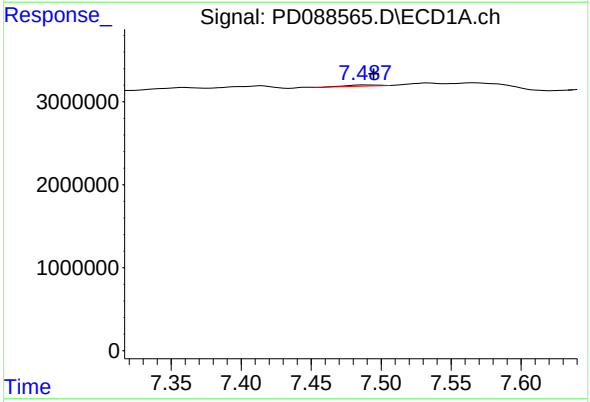
R.T.: 7.143 min
Delta R.T.: -0.007 min
Response: 510414
Conc: 0.18 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



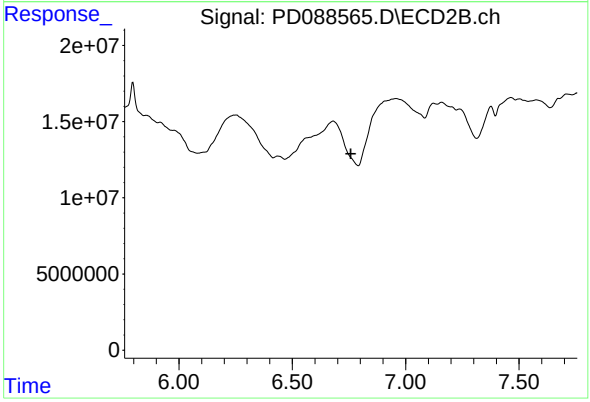
#19 Endosulfan Sulfate

R.T.: 0.000 min
Exp R.T. : 6.486 min
Response: 0
Conc: N.D.



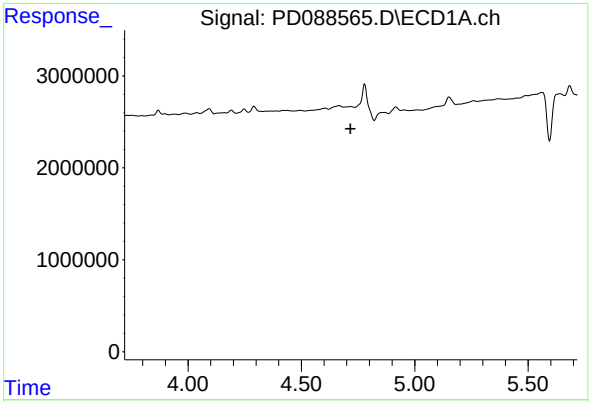
#20 Methoxychlor

R.T.: 7.488 min
Delta R.T.: -0.006 min
Response: 195433
Conc: 0.13 ng/ml



#20 Methoxychlor

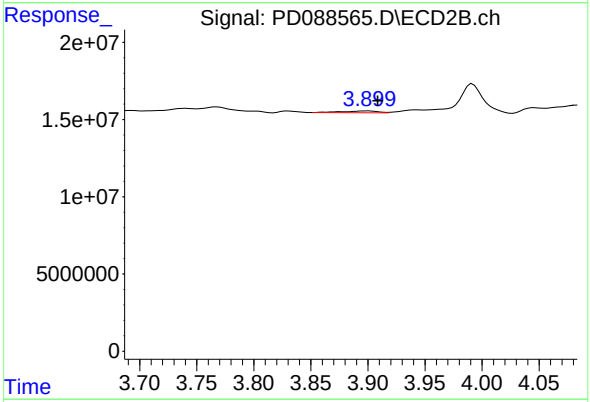
R.T.: 0.000 min
Exp R.T. : 6.759 min
Response: 0
Conc: N.D.



#23 Chlordane-1

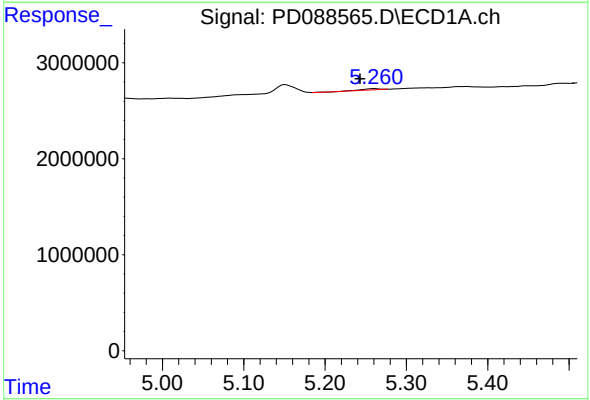
R.T.: 0.000 min
Exp R.T. : 4.717 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
I.BLK



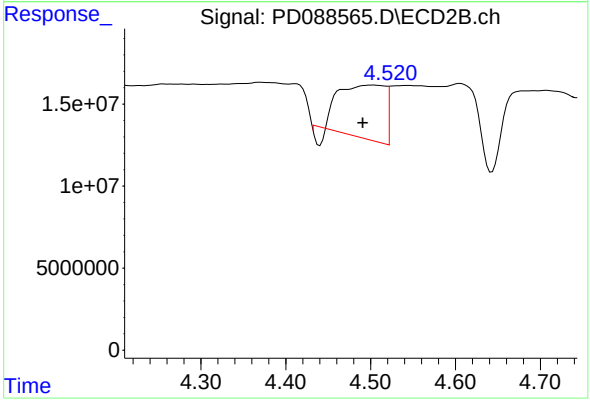
#23 Chlordane-1

R.T.: 3.900 min
Delta R.T.: -0.009 min
Response: 2586432
Conc: 3.23 ng/ml



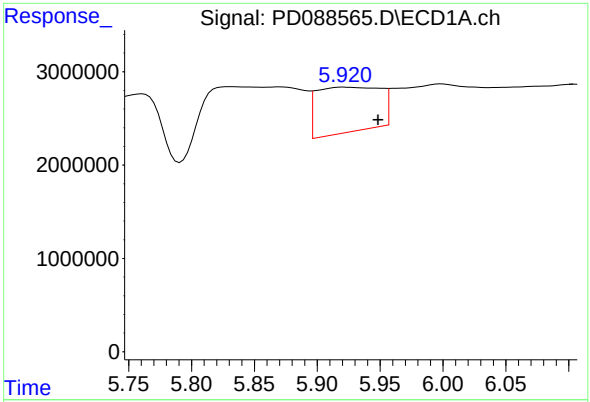
#24 Chlordane-2

R.T.: 5.261 min
Delta R.T.: 0.018 min
Response: 208756
Conc: 1.25 ng/ml



#24 Chlordane-2

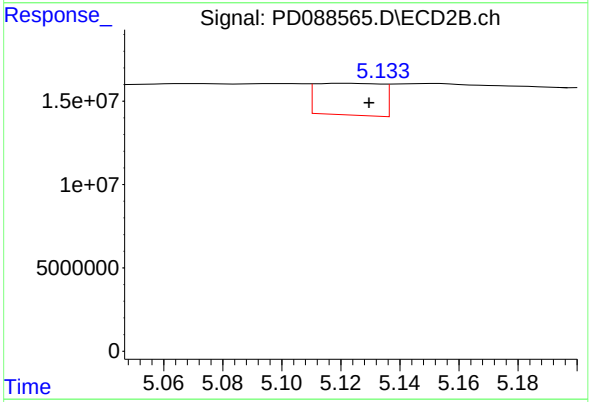
R.T.: 4.504 min
Delta R.T.: 0.014 min
Response: 118380399
Conc: 143.44 ng/ml



#25 Chlordane-3

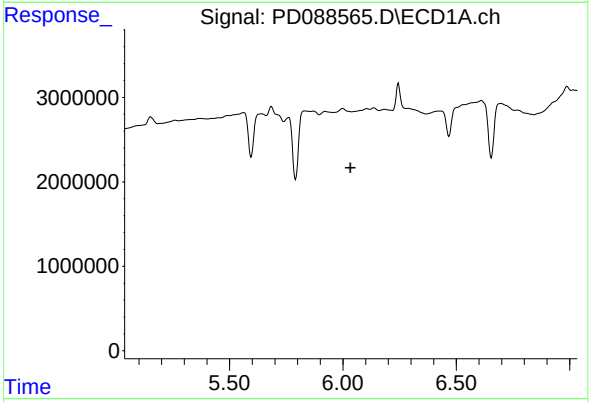
R.T.: 5.921 min
Delta R.T.: -0.027 min
Response: 16893280
Conc: 25.04 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



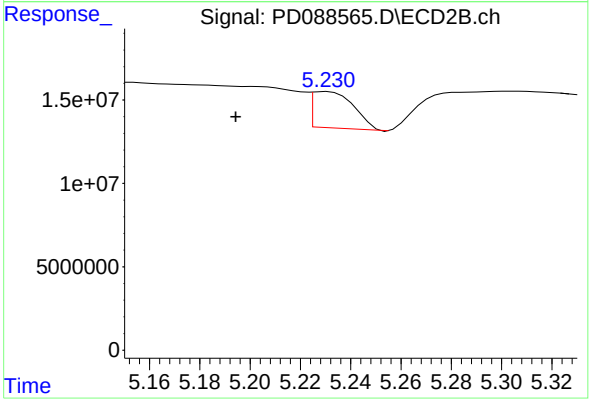
#25 Chlordane-3

R.T.: 5.121 min
Delta R.T.: -0.009 min
Response: 29575779
Conc: 11.69 ng/ml



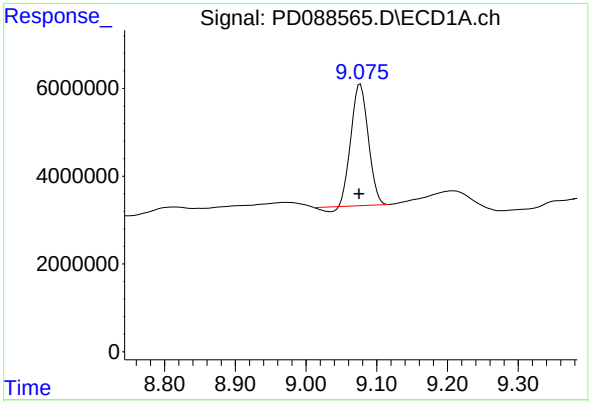
#26 Chlordane-4

R.T.: 0.000 min
Exp R.T. : 6.034 min
Response: 0
Conc: N.D.



#26 Chlordane-4

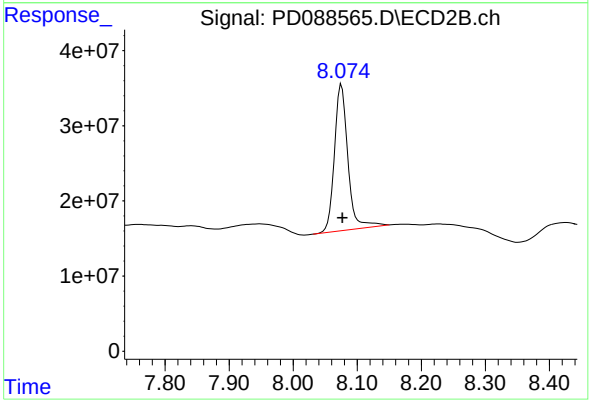
R.T.: 5.230 min
Delta R.T.: 0.036 min
Response: 25061141
Conc: 11.72 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.077 min
Delta R.T.: 0.002 min
Response: 46199260
Conc: 13.97 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.001 min
Response: 285708313
Conc: 15.46 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088566.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 14:49
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:19:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.558	2.882	114.6E6	755.0E6	57.367	51.634
28)	SA Decachlor...	9.083	8.077	169.0E6	782.8E6	51.090	42.363
	Target Compounds						
2)	A alpha-BHC	4.008	3.395	263.0E6	1197.6E6	60.988	52.386
3)	MA gamma-BHC...	4.339	3.732	246.7E6	1095.1E6	58.915	50.843
4)	MA Heptachlor	4.938	4.085	227.9E6	1039.2E6	56.421	48.564
5)	MB Aldrin	5.280	4.371	233.9E6	1089.2E6	59.232	52.356
6)	B beta-BHC	4.523	4.028	93918804	475.0E6	57.854	51.331
7)	B delta-BHC	4.772	4.264	241.8E6	1104.2E6	58.628	51.933
8)	B Heptachlo...	5.699	4.875	203.6E6	957.3E6	56.969	50.667
9)	A Endosulfan I	6.083	5.250	193.8E6	861.3E6	57.396	47.815
10)	B gamma-Chl...	5.955	5.129	216.0E6	1028.8E6	59.631	50.690
11)	B alpha-Chl...	6.035	5.194	209.8E6	984.8E6	58.118	50.240
12)	B 4,4'-DDE	6.204	5.378	183.8E6	1013.8E6	55.722	51.480
13)	MA Dieldrin	6.356	5.516	206.3E6	1002.5E6	57.819	50.294
14)	MA Endrin	6.583	5.792	164.8E6	899.3E6	55.258	49.405
15)	B Endosulfa...	6.795	6.084	174.4E6	853.8E6	55.775	48.730
16)	A 4,4'-DDD	6.714	5.933	154.4E6	848.9E6	61.375	51.806
17)	MA 4,4'-DDT	7.030	6.187	134.5E6	733.5E6	48.415	43.104
18)	B Endrin al...	6.923	6.262	120.3E6	611.3E6	52.141	45.956
19)	B Endosulfa...	7.158	6.486	158.0E6	818.9E6	54.927	47.796
20)	A Methoxychlor	7.501	6.759	69549592	383.5E6	46.380	42.046
21)	B Endrin ke...	7.639	6.995	163.6E6	861.0E6	52.996	46.033
22)	Mirex	8.121	7.189	122.1E6	666.5E6	51.986	44.968
23)	Chlordane-1	0.000	3.909	0	337921	N.D.	0.422 #
24)	Chlordane-2	0.000	4.509	0	67625385	N.D.	81.940 #
25)	Chlordane-3	5.955	5.129	216.0E6	1028.8E6	320.201	406.798 #
26)	Chlordane-4	6.035	5.194	209.8E6	984.8E6	257.297	460.606 #
27)	Chlordane-5	0.000	6.084	0	853.8E6	N.D.	884.319 #

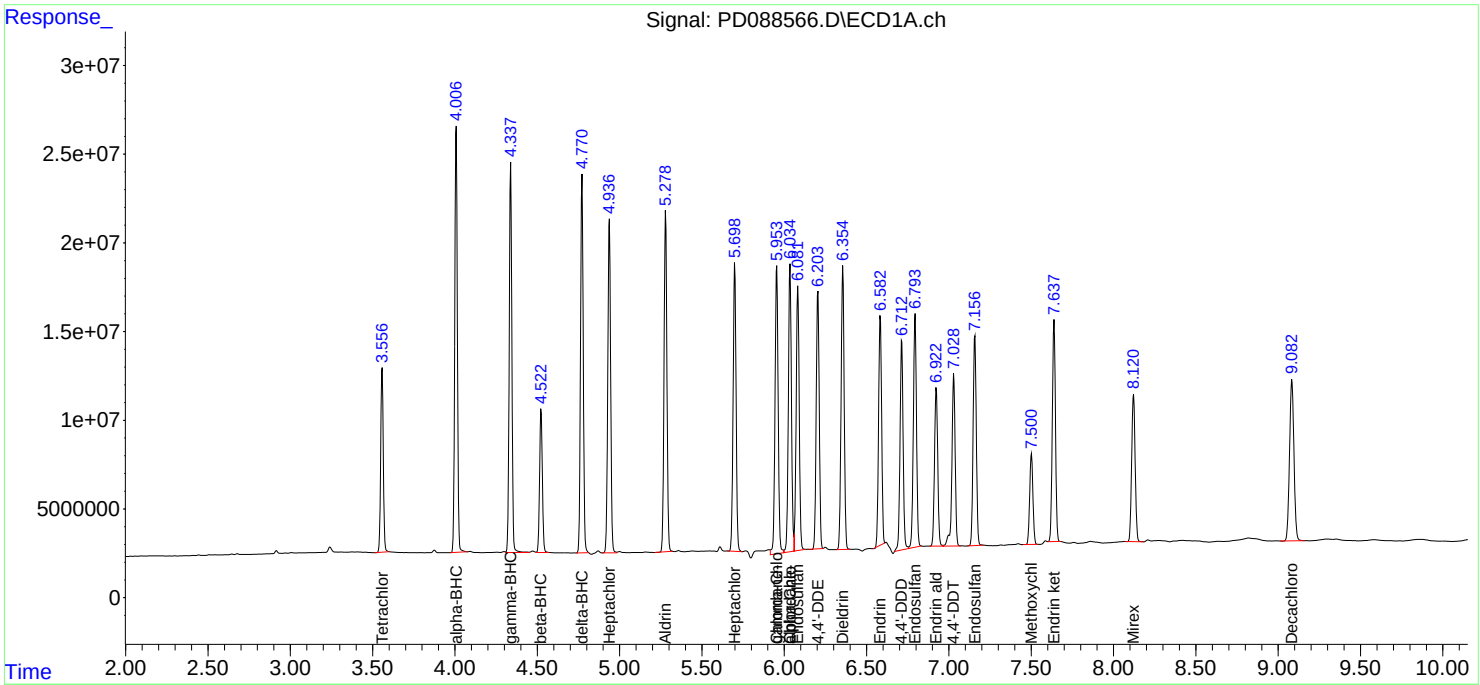
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

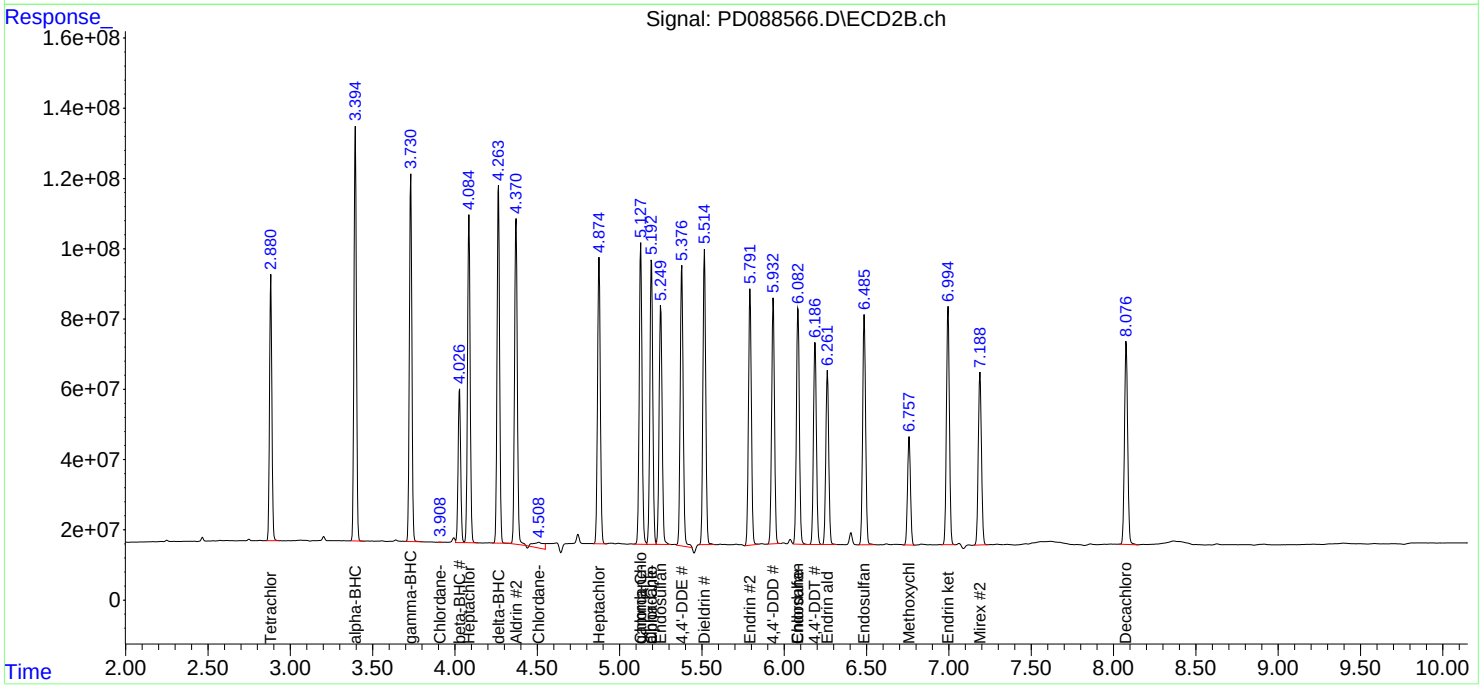
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088566.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 14:49
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

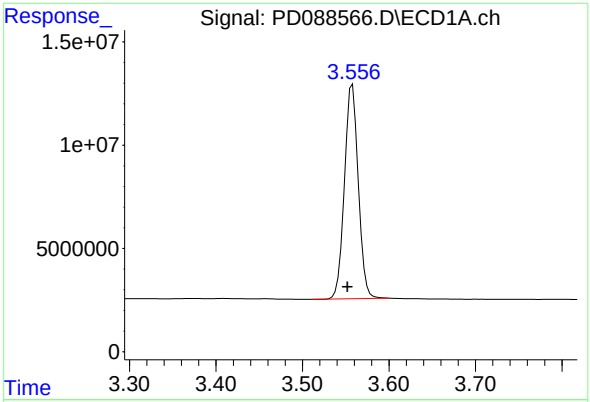
Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:19:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



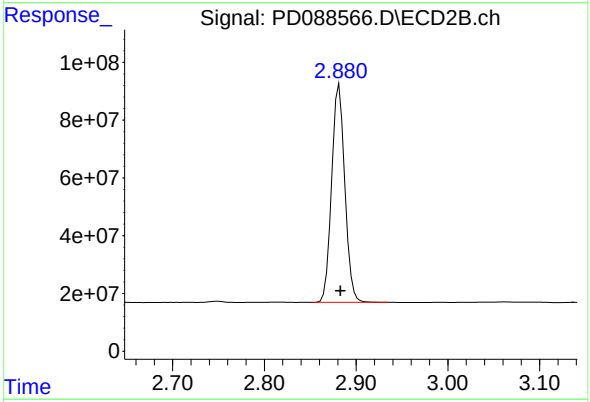




#1 Tetrachloro-m-xylene

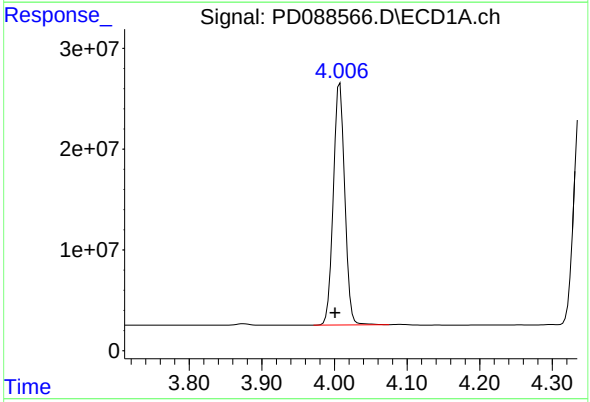
R.T.: 3.558 min
Delta R.T.: 0.006 min
Response: 114584746
Conc: 57.37 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



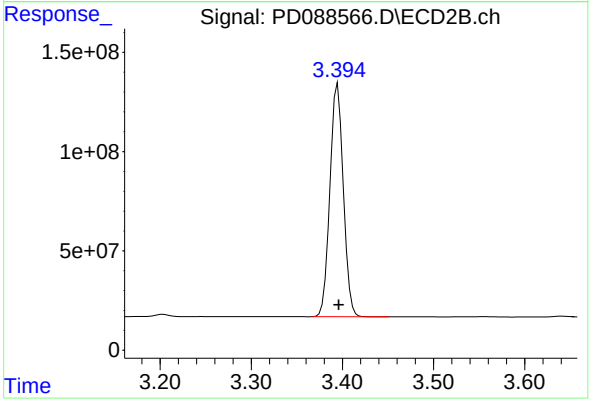
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: -0.001 min
Response: 754978376
Conc: 51.63 ng/ml



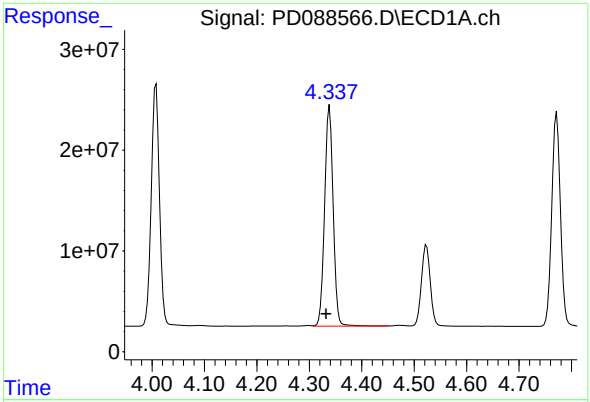
#2 alpha-BHC

R.T.: 4.008 min
Delta R.T.: 0.007 min
Response: 262978950
Conc: 60.99 ng/ml



#2 alpha-BHC

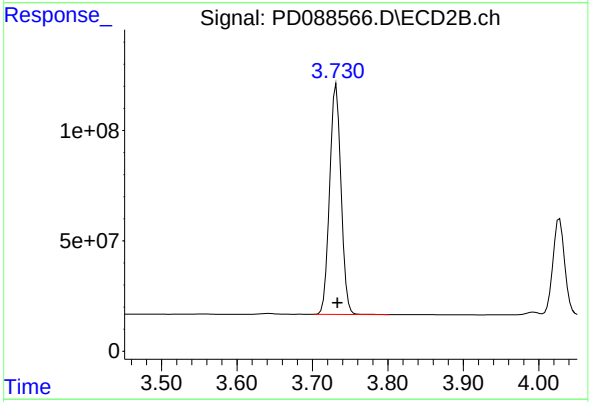
R.T.: 3.395 min
Delta R.T.: -0.001 min
Response: 1197623298
Conc: 52.39 ng/ml



#3 gamma-BHC (Lindane)

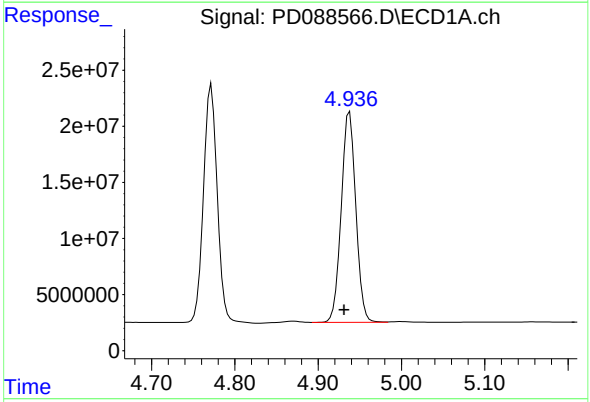
R.T.: 4.339 min
Delta R.T.: 0.007 min
Response: 246707674
Conc: 58.92 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



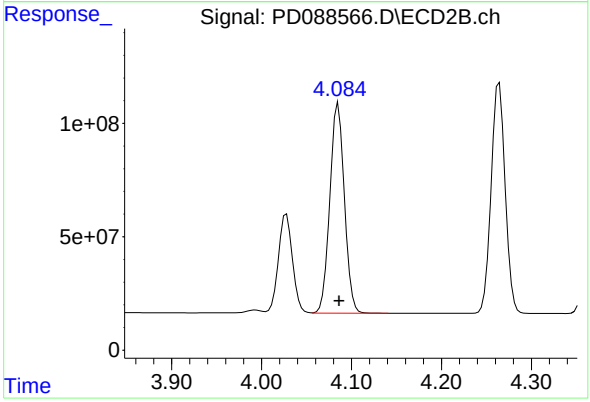
#3 gamma-BHC (Lindane)

R.T.: 3.732 min
Delta R.T.: -0.001 min
Response: 1095094589
Conc: 50.84 ng/ml



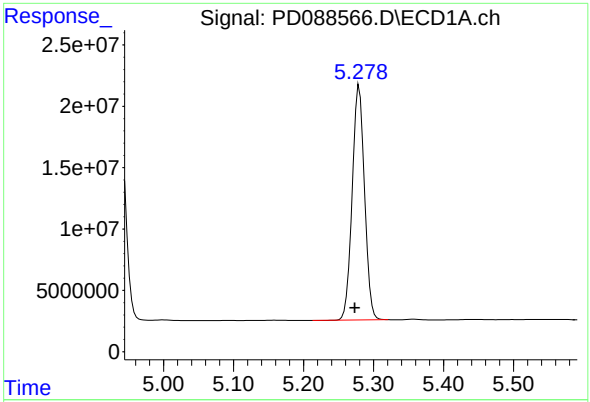
#4 Heptachlor

R.T.: 4.938 min
Delta R.T.: 0.007 min
Response: 227883718
Conc: 56.42 ng/ml



#4 Heptachlor

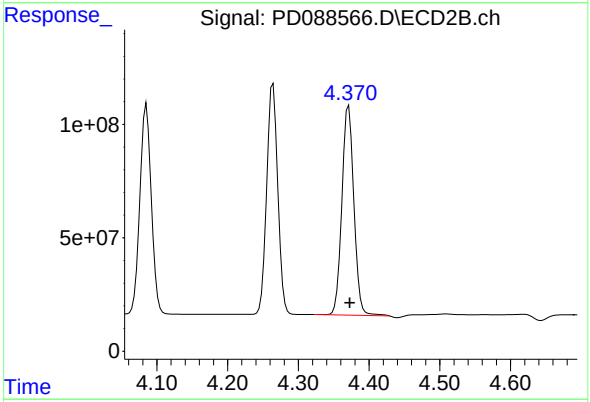
R.T.: 4.085 min
Delta R.T.: -0.001 min
Response: 1039169848
Conc: 48.56 ng/ml



#5 Aldrin

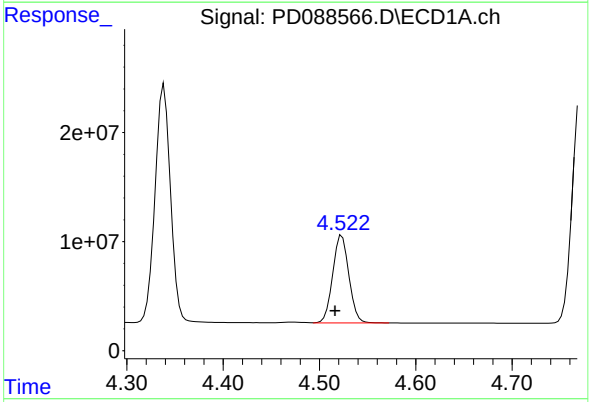
R.T.: 5.280 min
Delta R.T.: 0.006 min
Response: 233940407
Conc: 59.23 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



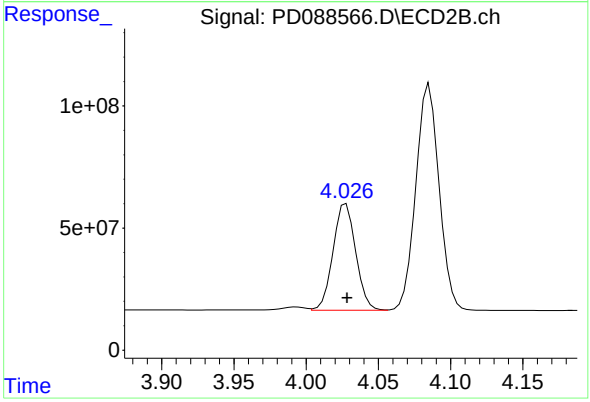
#5 Aldrin

R.T.: 4.371 min
Delta R.T.: -0.001 min
Response: 1089157579
Conc: 52.36 ng/ml



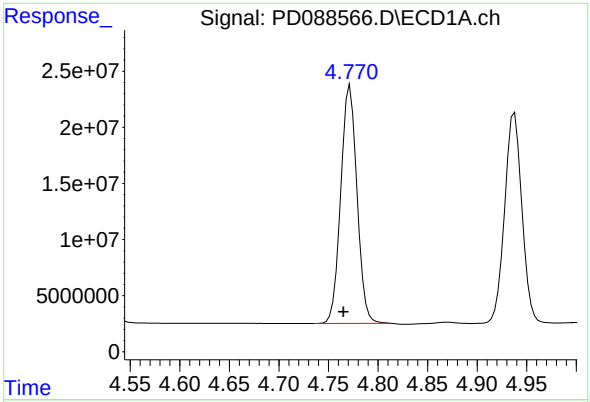
#6 beta-BHC

R.T.: 4.523 min
Delta R.T.: 0.007 min
Response: 93918804
Conc: 57.85 ng/ml



#6 beta-BHC

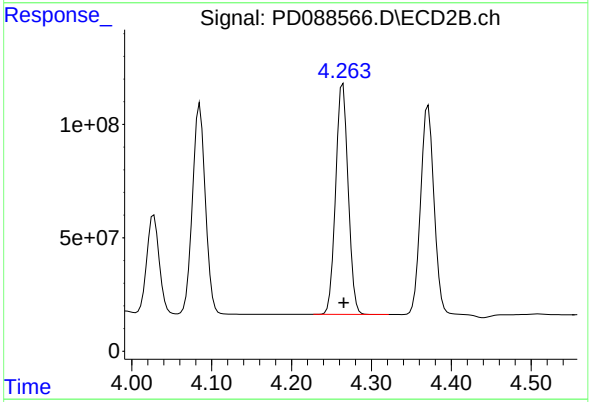
R.T.: 4.028 min
Delta R.T.: 0.000 min
Response: 475026936
Conc: 51.33 ng/ml



#7 delta-BHC

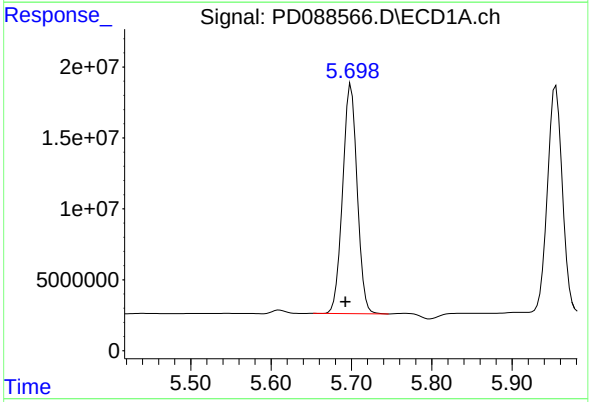
R.T.: 4.772 min
Delta R.T.: 0.007 min
Response: 241839029
Conc: 58.63 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



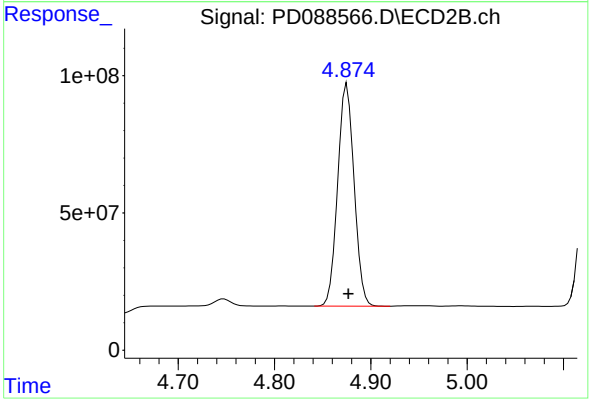
#7 delta-BHC

R.T.: 4.264 min
Delta R.T.: -0.001 min
Response: 1104167249
Conc: 51.93 ng/ml



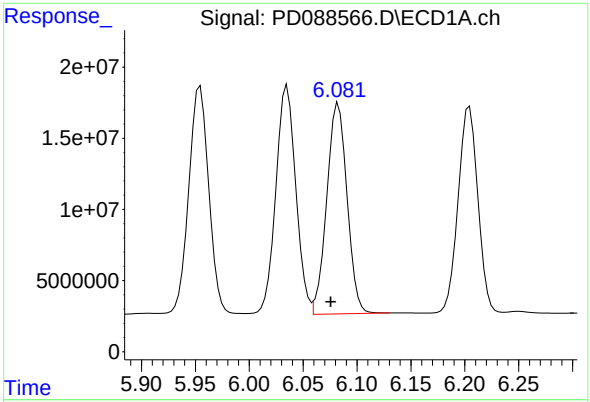
#8 Heptachlor epoxide

R.T.: 5.699 min
Delta R.T.: 0.007 min
Response: 203605477
Conc: 56.97 ng/ml



#8 Heptachlor epoxide

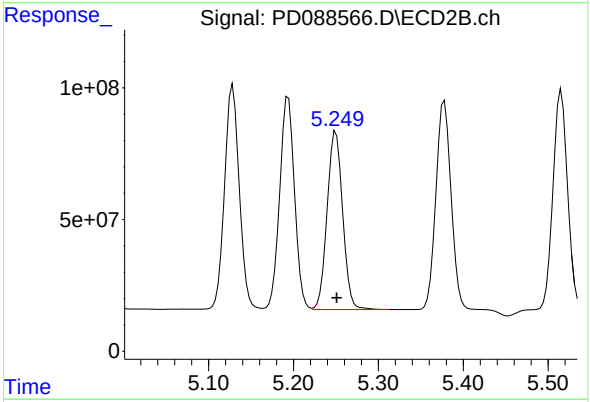
R.T.: 4.875 min
Delta R.T.: -0.001 min
Response: 957314725
Conc: 50.67 ng/ml



#9 Endosulfan I

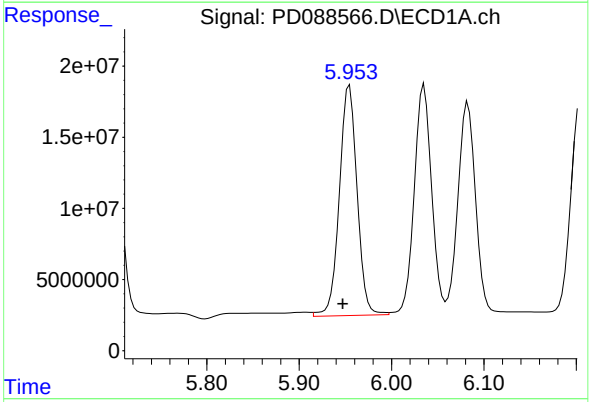
R.T.: 6.083 min
Delta R.T.: 0.007 min
Response: 193833229
Conc: 57.40 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



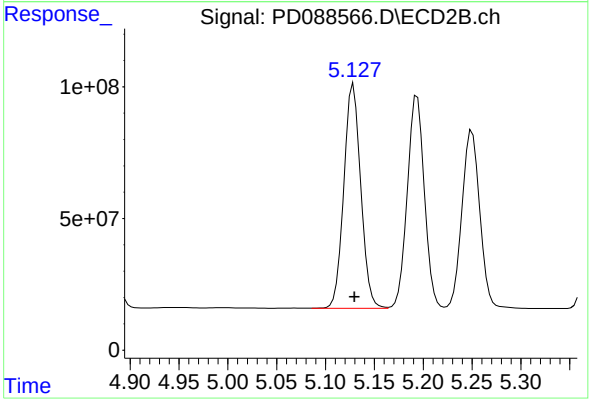
#9 Endosulfan I

R.T.: 5.250 min
Delta R.T.: -0.001 min
Response: 861265274
Conc: 47.81 ng/ml



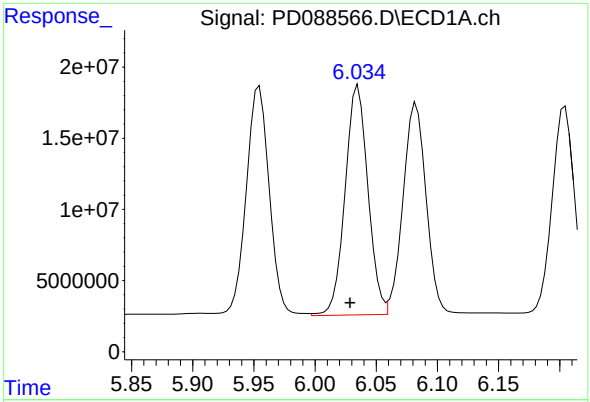
#10 gamma-Chlordane

R.T.: 5.955 min
Delta R.T.: 0.007 min
Response: 215985405
Conc: 59.63 ng/ml



#10 gamma-Chlordane

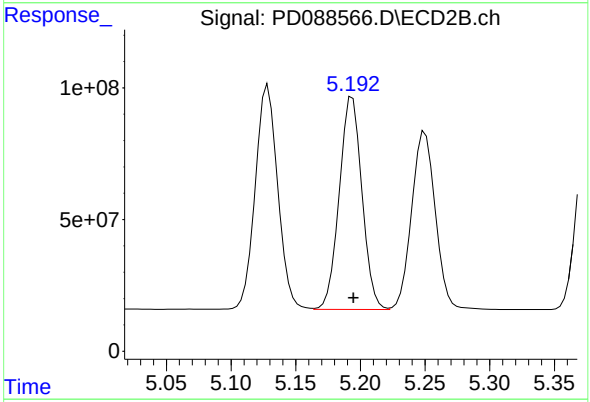
R.T.: 5.129 min
Delta R.T.: 0.000 min
Response: 1028808866
Conc: 50.69 ng/ml



#11 alpha-Chlordane

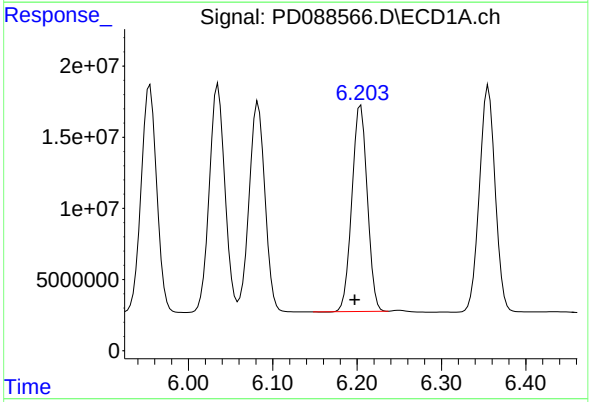
R.T.: 6.035 min
Delta R.T.: 0.007 min
Response: 209780688
Conc: 58.12 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



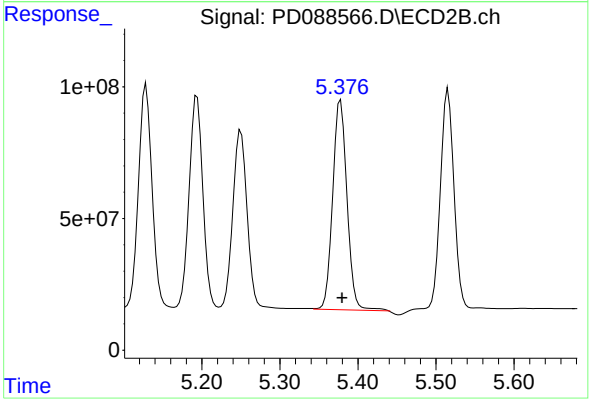
#11 alpha-Chlordane

R.T.: 5.194 min
Delta R.T.: 0.000 min
Response: 984845893
Conc: 50.24 ng/ml



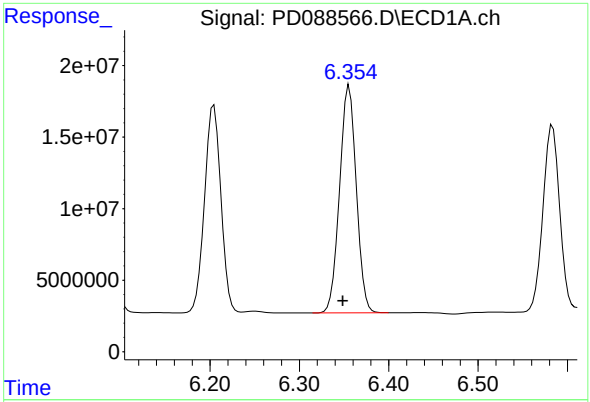
#12 4,4'-DDE

R.T.: 6.204 min
Delta R.T.: 0.007 min
Response: 183783553
Conc: 55.72 ng/ml



#12 4,4'-DDE

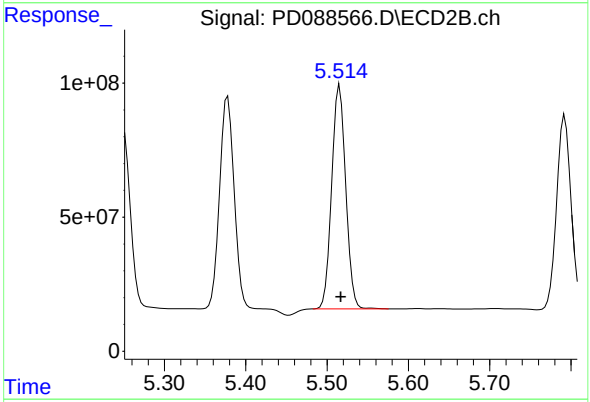
R.T.: 5.378 min
Delta R.T.: -0.002 min
Response: 1013841065
Conc: 51.48 ng/ml



#13 Dieldrin

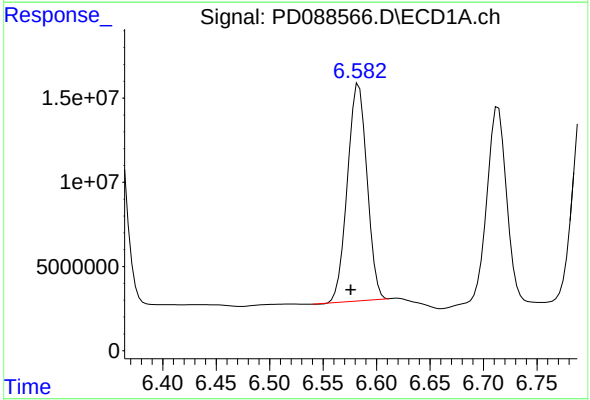
R.T.: 6.356 min
Delta R.T.: 0.007 min
Response: 206327435
Conc: 57.82 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



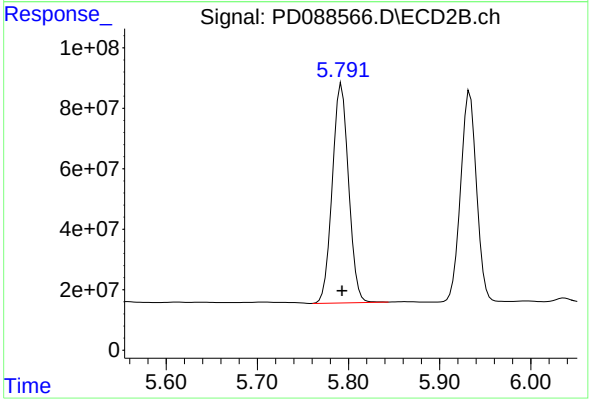
#13 Dieldrin

R.T.: 5.516 min
Delta R.T.: -0.001 min
Response: 1002498162
Conc: 50.29 ng/ml



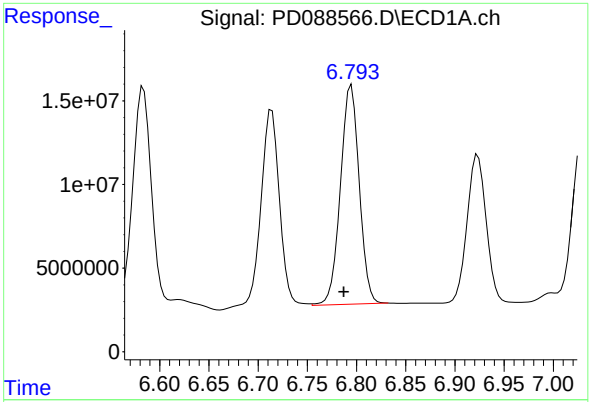
#14 Endrin

R.T.: 6.583 min
Delta R.T.: 0.008 min
Response: 164810279
Conc: 55.26 ng/ml



#14 Endrin

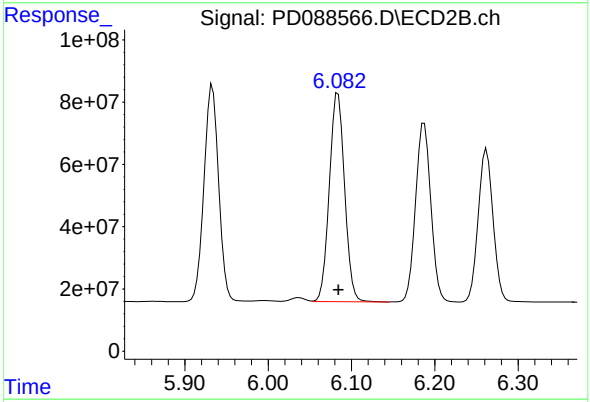
R.T.: 5.792 min
Delta R.T.: 0.000 min
Response: 899282209
Conc: 49.40 ng/ml



#15 Endosulfan II

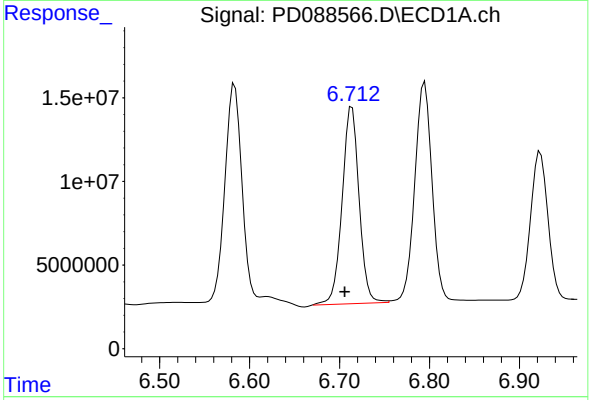
R.T.: 6.795 min
Delta R.T.: 0.008 min
Response: 174364048
Conc: 55.77 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



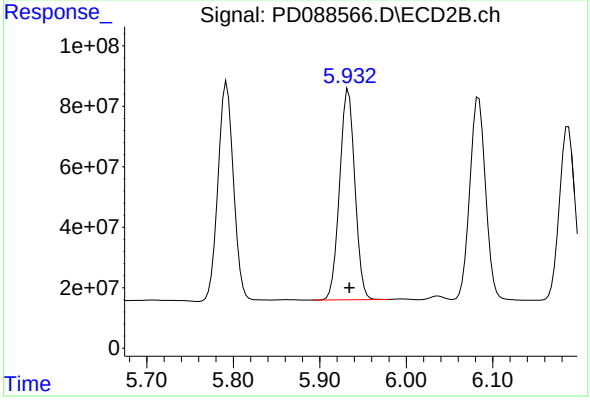
#15 Endosulfan II

R.T.: 6.084 min
Delta R.T.: 0.000 min
Response: 853832206
Conc: 48.73 ng/ml



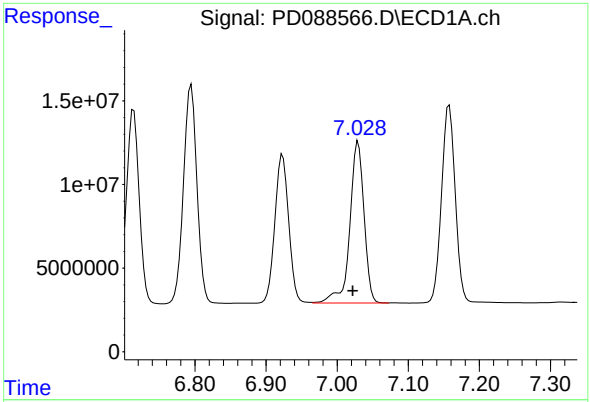
#16 4,4'-DDD

R.T.: 6.714 min
Delta R.T.: 0.008 min
Response: 154356704
Conc: 61.38 ng/ml



#16 4,4'-DDD

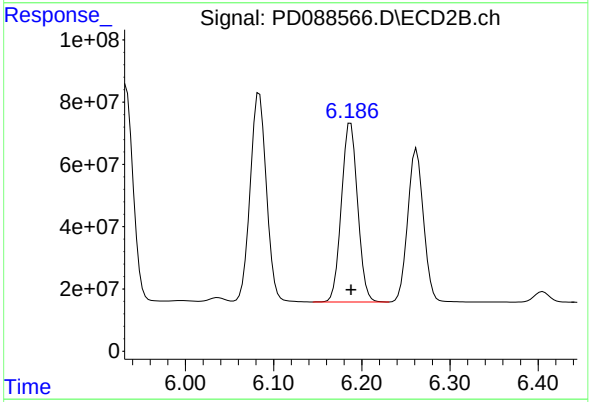
R.T.: 5.933 min
Delta R.T.: 0.000 min
Response: 848898848
Conc: 51.81 ng/ml



#17 4,4'-DDT

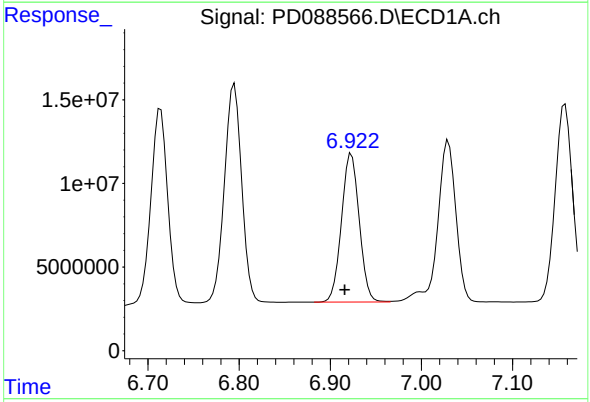
R.T.: 7.030 min
Delta R.T.: 0.008 min
Response: 134475061
Conc: 48.42 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



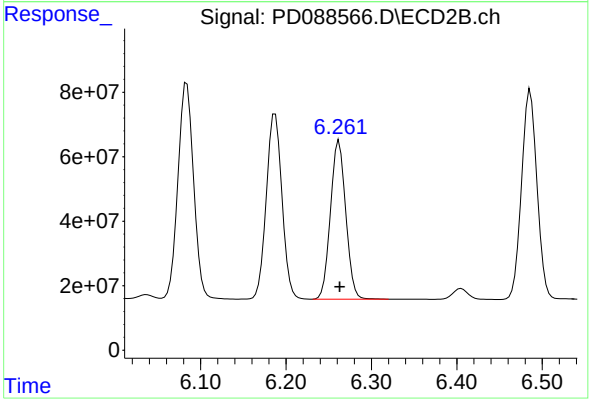
#17 4,4'-DDT

R.T.: 6.187 min
Delta R.T.: 0.000 min
Response: 733473022
Conc: 43.10 ng/ml



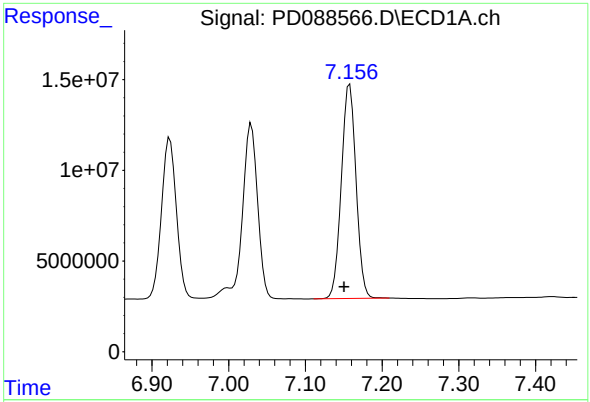
#18 Endrin aldehyde

R.T.: 6.923 min
Delta R.T.: 0.007 min
Response: 120341476
Conc: 52.14 ng/ml



#18 Endrin aldehyde

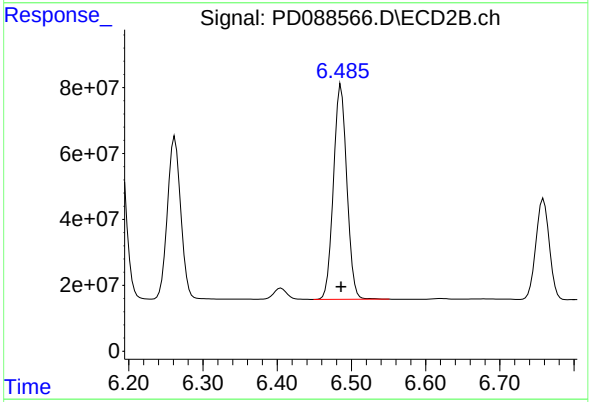
R.T.: 6.262 min
Delta R.T.: 0.000 min
Response: 611260105
Conc: 45.96 ng/ml



#19 Endosulfan Sulfate

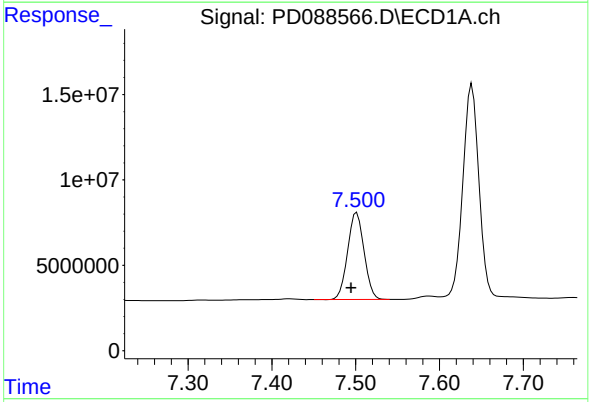
R.T.: 7.158 min
Delta R.T.: 0.007 min
Response: 157962570
Conc: 54.93 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



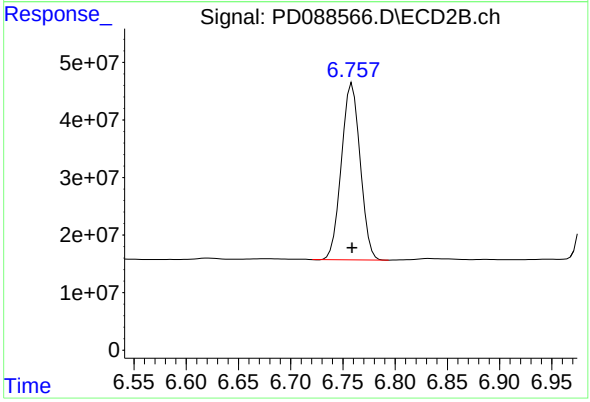
#19 Endosulfan Sulfate

R.T.: 6.486 min
Delta R.T.: 0.000 min
Response: 818900200
Conc: 47.80 ng/ml



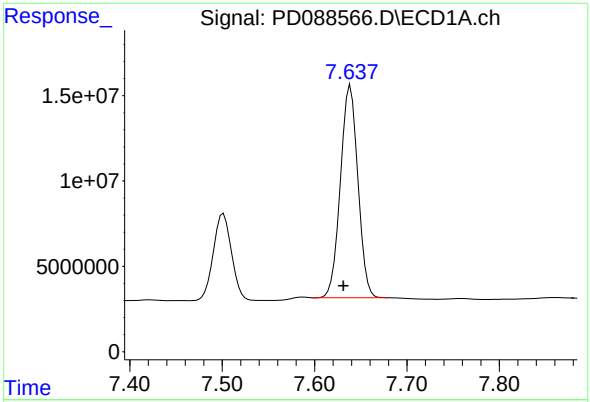
#20 Methoxychlor

R.T.: 7.501 min
Delta R.T.: 0.007 min
Response: 69549592
Conc: 46.38 ng/ml



#20 Methoxychlor

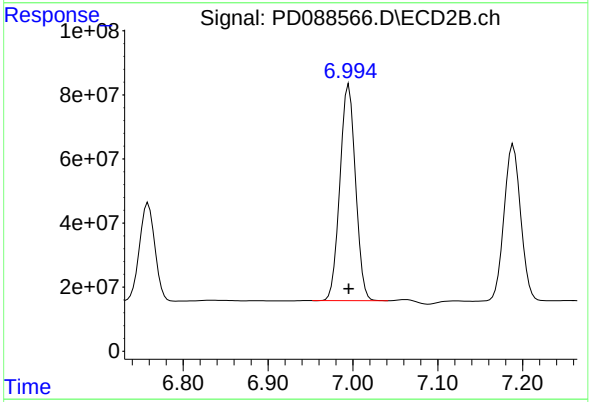
R.T.: 6.759 min
Delta R.T.: 0.000 min
Response: 383501731
Conc: 42.05 ng/ml



#21 Endrin ketone

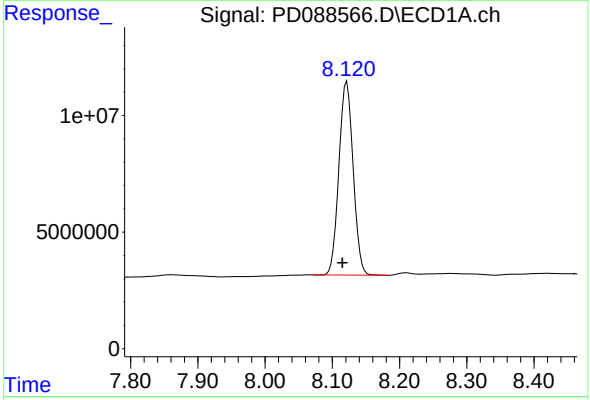
R.T.: 7.639 min
Delta R.T.: 0.008 min
Response: 163575324
Conc: 53.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



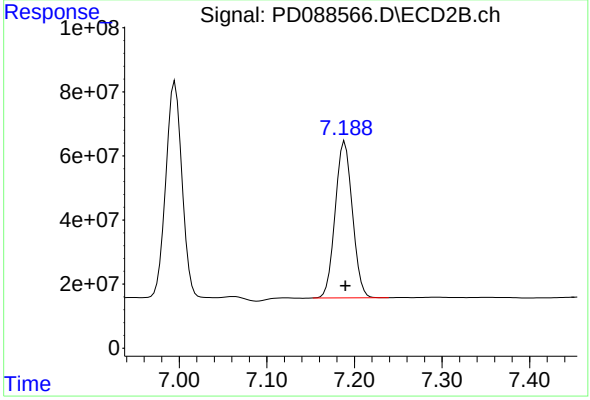
#21 Endrin ketone

R.T.: 6.995 min
Delta R.T.: 0.000 min
Response: 860999623
Conc: 46.03 ng/ml



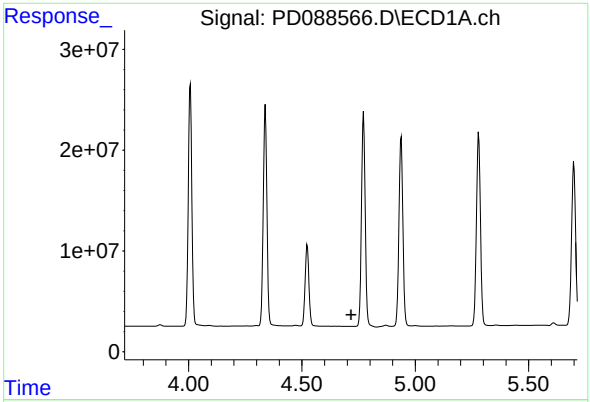
#22 Mirex

R.T.: 8.121 min
Delta R.T.: 0.006 min
Response: 122080030
Conc: 51.99 ng/ml



#22 Mirex

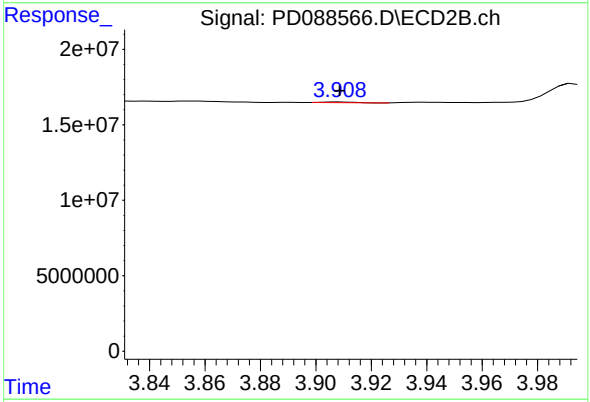
R.T.: 7.189 min
Delta R.T.: 0.000 min
Response: 666462030
Conc: 44.97 ng/ml



#23 Chlordane-1

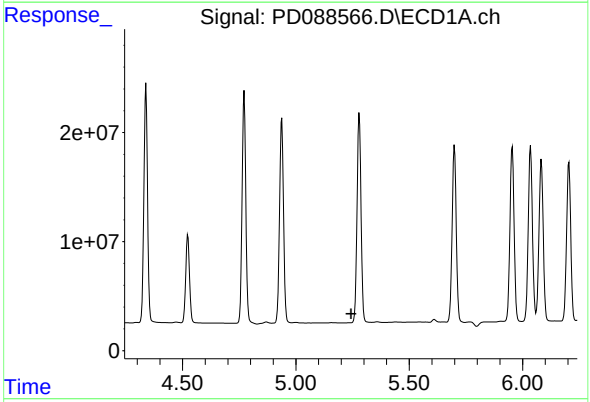
R.T.: 0.000 min
Exp R.T. : 4.717 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



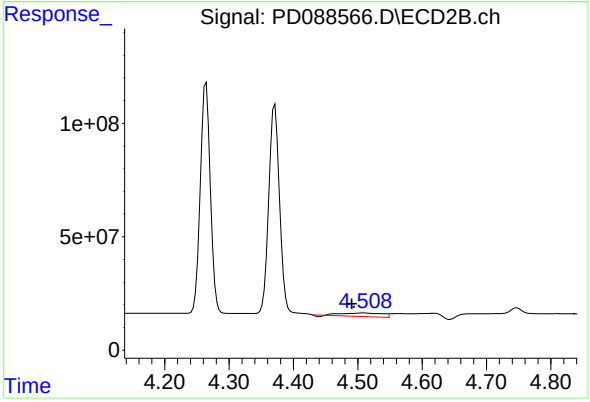
#23 Chlordane-1

R.T.: 3.909 min
Delta R.T.: 0.000 min
Response: 337921
Conc: 0.42 ng/ml



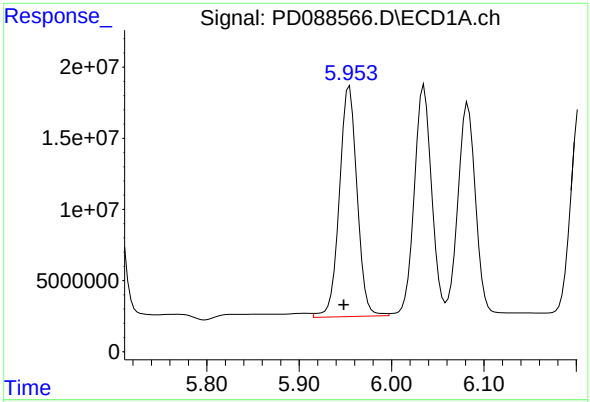
#24 Chlordane-2

R.T.: 0.000 min
Exp R.T. : 5.243 min
Response: 0
Conc: N.D.



#24 Chlordane-2

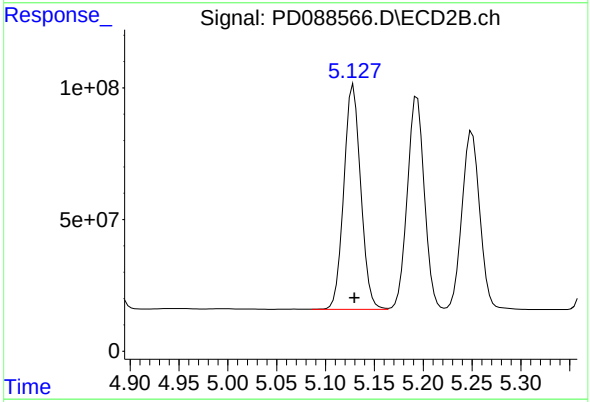
R.T.: 4.509 min
Delta R.T.: 0.019 min
Response: 67625385
Conc: 81.94 ng/ml



#25 Chlordane-3

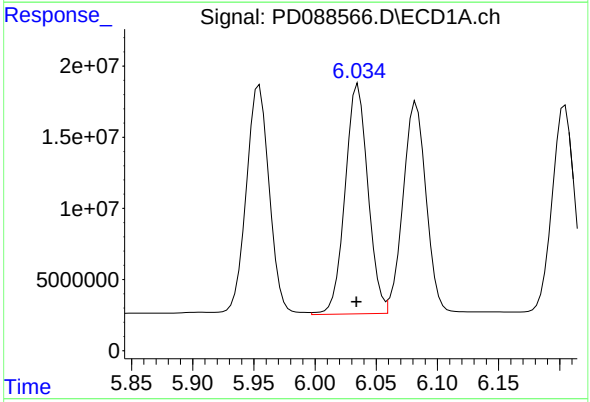
R.T.: 5.955 min
Delta R.T.: 0.006 min
Response: 215985405
Conc: 320.20 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



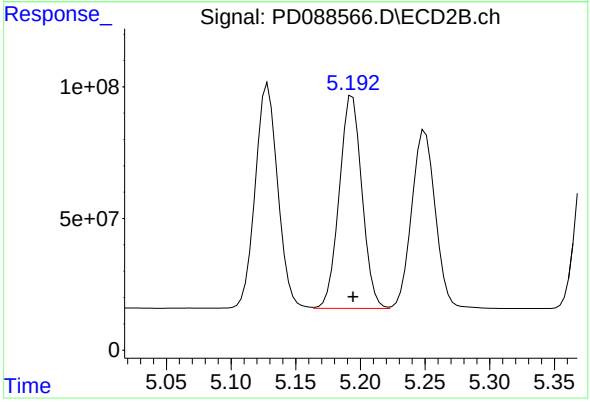
#25 Chlordane-3

R.T.: 5.129 min
Delta R.T.: -0.001 min
Response: 1028808866
Conc: 406.80 ng/ml



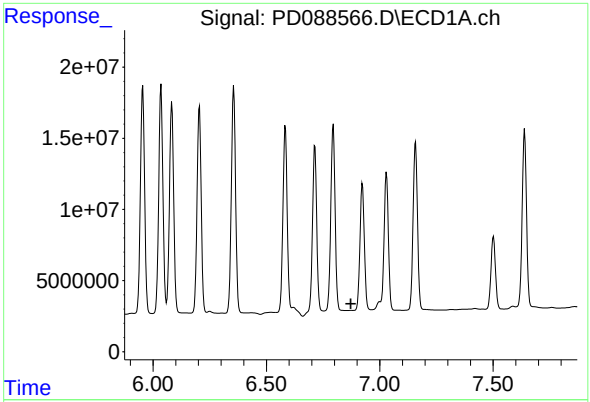
#26 Chlordane-4

R.T.: 6.035 min
Delta R.T.: 0.001 min
Response: 209780688
Conc: 257.30 ng/ml



#26 Chlordane-4

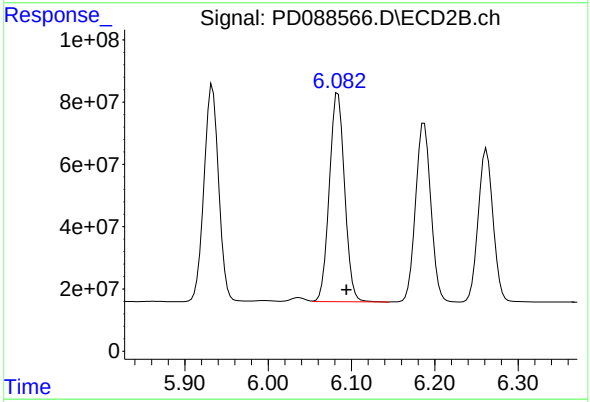
R.T.: 5.194 min
Delta R.T.: 0.000 min
Response: 984845893
Conc: 460.61 ng/ml



#27 Chlordane-5

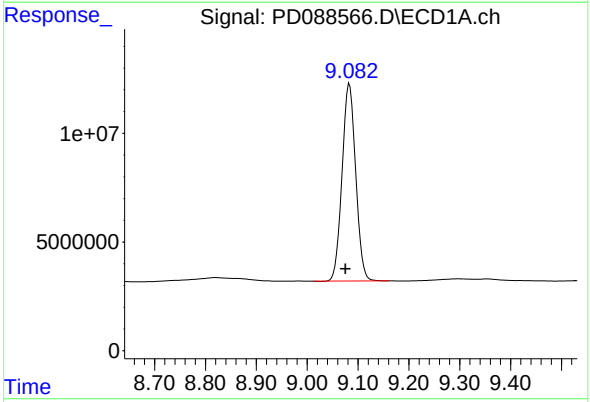
R.T.: 0.000 min
Exp R.T. : 6.873 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



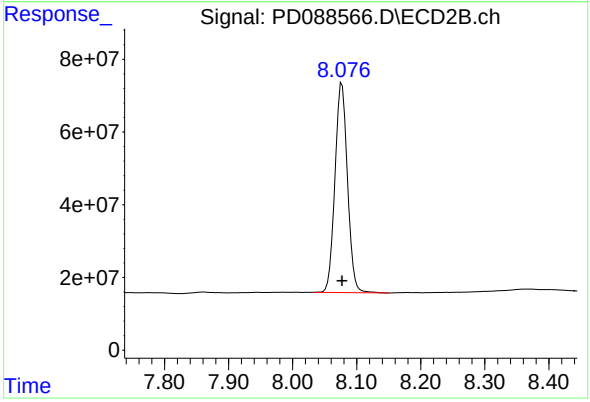
#27 Chlordane-5

R.T.: 6.084 min
Delta R.T.: -0.010 min
Response: 853832206
Conc: 884.32 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.083 min
Delta R.T.: 0.008 min
Response: 169011321
Conc: 51.09 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.077 min
Delta R.T.: 0.000 min
Response: 782848095
Conc: 42.36 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088569.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 18:08
Operator : AR\AJ
Sample : Q1984-11
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:20:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	System Monitoring Compounds							
1)	SA Tetrachlo...	3.552	2.883	21814579	155.2E6	10.922	10.613	
28)	SA Decachlor...	9.077	8.076	23210771	102.8E6	7.016	5.564	
	Target Compounds							
2)	A alpha-BHC	0.000	3.383	0	1367137	N.D.	0.060	#
3)	MA gamma-BHC...	0.000	3.734	0	7701502	N.D.	0.358	#
4)	MA Heptachlor	4.918	4.078	587536	17680458	0.145	0.826	#
5)	MB Aldrin	5.296f	4.377	829802	3839731	0.210	0.185	
6)	B beta-BHC	4.549f	0.000	228416	0	0.141	N.D.	#
7)	B delta-BHC	4.782f	4.271	3265529	2971957	0.792	0.140	#
8)	B Heptachlo...	5.683	4.872	1333024	9846997	0.373	0.521	#
9)	A Endosulfan I	0.000	5.250	0	5026030	N.D.	0.279	#
10)	B gamma-Chl...	5.949	5.128	2580076	13713524	0.712	0.676	
11)	B alpha-Chl...	6.033	5.193	4339118	26517261	1.202	1.353	
12)	B 4,4'-DDE	6.198	5.378	5348731	49381060	1.622	2.507	#
13)	MA Dieldrin	6.348	5.512	251570	10657079	0.070	0.535	#
14)	MA Endrin	6.577	5.797	358017	5601847	0.120	0.308	#
15)	B Endosulfa...	0.000	6.071	0	3322701	N.D.	0.190	#
16)	A 4,4'-DDD	6.686f	5.930	240295	668148	0.096	0.041	#
17)	MA 4,4'-DDT	7.000f	6.182	759411	5599121	0.273	0.329	
19)	B Endosulfa...	0.000	6.485	0	189670	N.D.	0.011	#
20)	A Methoxychlor	0.000	6.778f	0	1312264	N.D.	0.144	#
21)	B Endrin ke...	7.619	6.994	300377	-444797	0.097	N.D.	#
22)	Mirex	0.000	7.188	0	3731226	N.D.	0.252	#
23)	Chlordane-1	4.717	3.907	1628436	43201759	9.801	53.888	#
24)	Chlordane-2	5.243	4.464f	3379448	8469713	20.293	10.263	#
25)	Chlordane-3	5.949	5.128	2580076	13713524	3.825	5.422	#
26)	Chlordane-4	6.033	5.193	4339118	26517261	5.322	12.402	#
27)	Chlordane-5	0.000	6.071f	0	3322701	N.D.	3.441	#

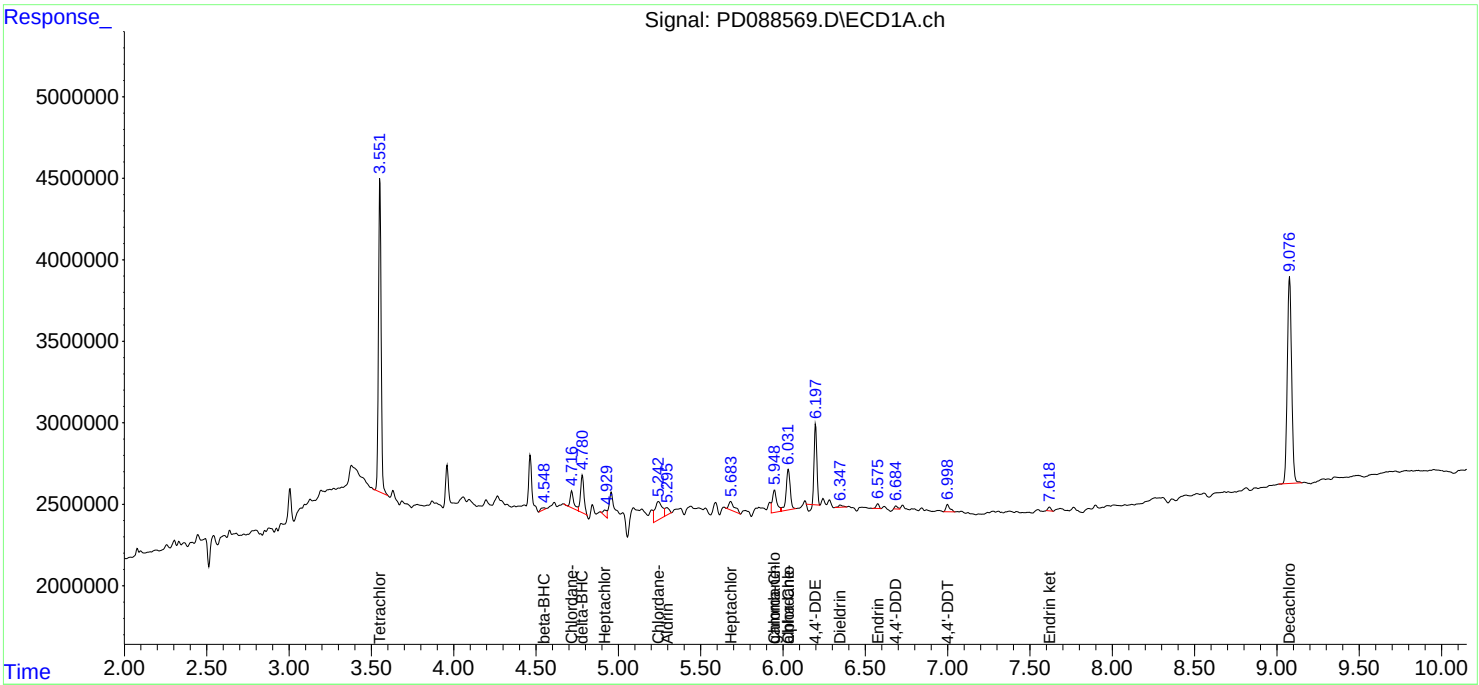
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

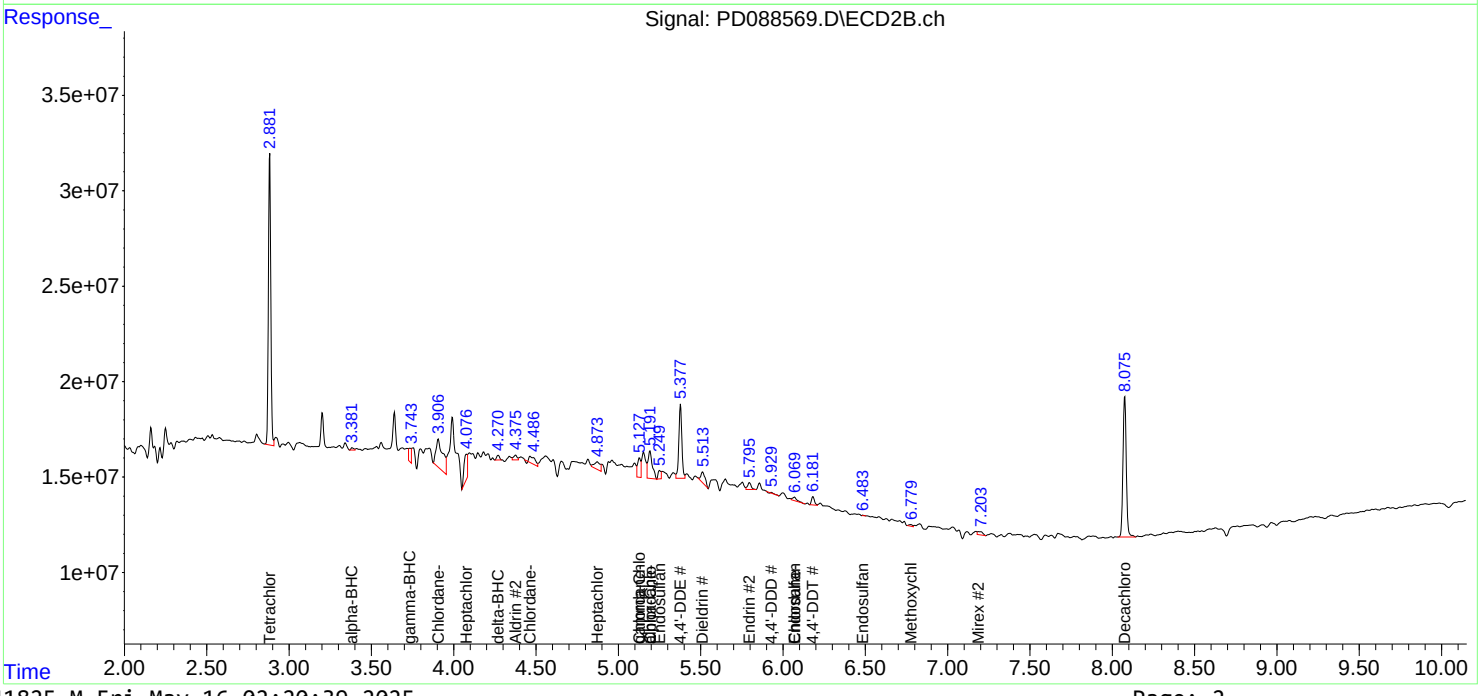
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088569.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 18:08
Operator : AR\AJ
Sample : Q1984-11
Misc :
ALS Vial : 16 Sample Multiplier: 1

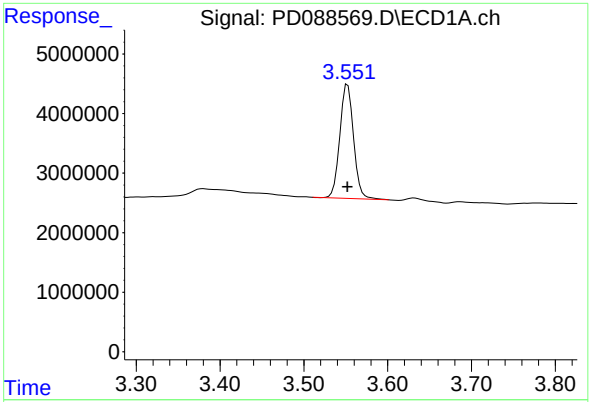
Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:20:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



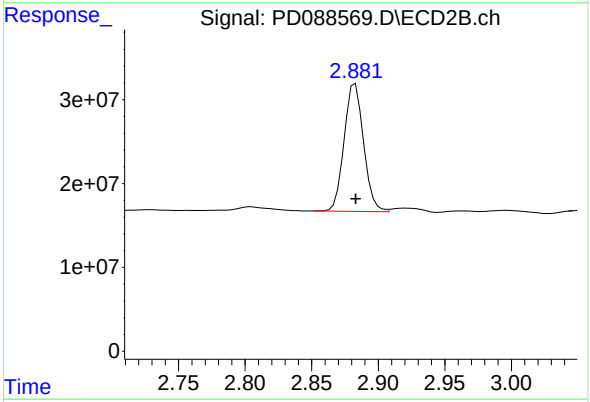




#1 Tetrachloro-m-xylene

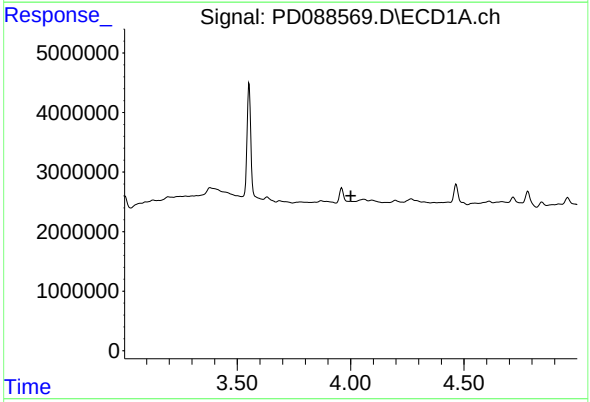
R.T.: 3.552 min
Delta R.T.: 0.000 min
Response: 21814579
Conc: 10.92 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725



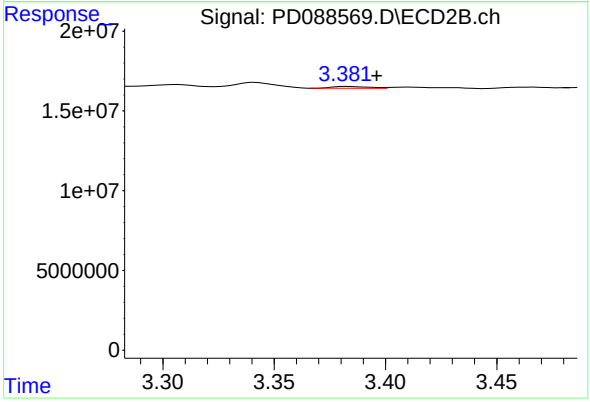
#1 Tetrachloro-m-xylene

R.T.: 2.883 min
Delta R.T.: 0.000 min
Response: 155180672
Conc: 10.61 ng/ml



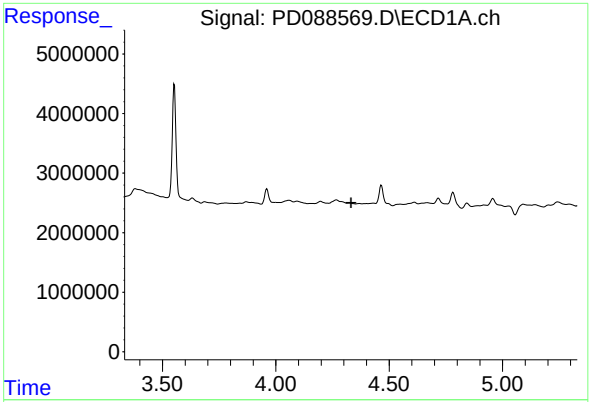
#2 alpha-BHC

R.T.: 0.000 min
Exp R.T. : 4.001 min
Response: 0
Conc: N.D.



#2 alpha-BHC

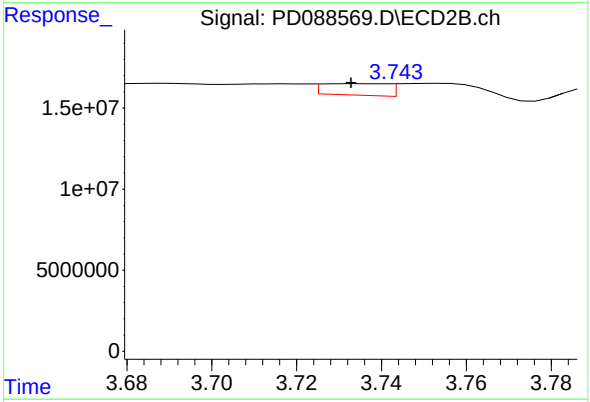
R.T.: 3.383 min
Delta R.T.: -0.013 min
Response: 1367137
Conc: 0.06 ng/ml



#3 gamma-BHC (Lindane)

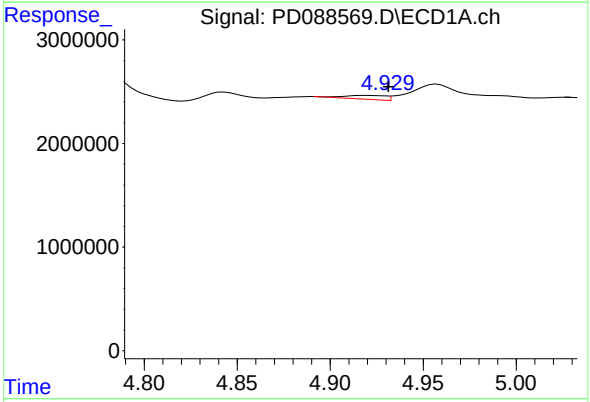
R.T.: 0.000 min
Exp R.T. : 4.332 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725



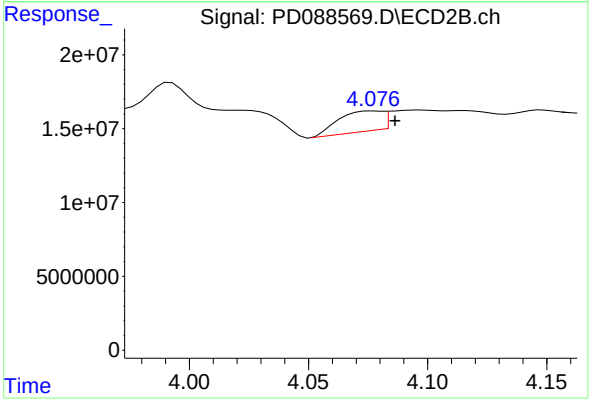
#3 gamma-BHC (Lindane)

R.T.: 3.734 min
Delta R.T.: 0.001 min
Response: 7701502
Conc: 0.36 ng/ml



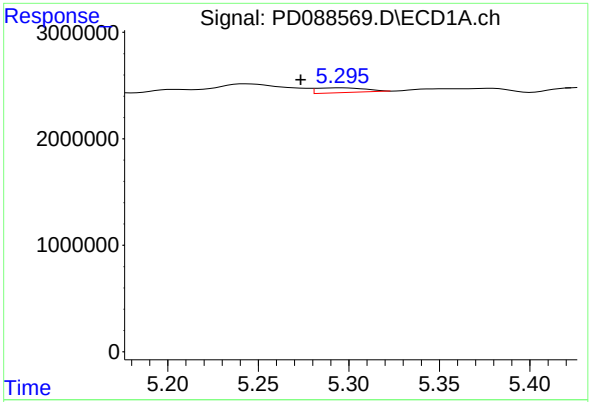
#4 Heptachlor

R.T.: 4.918 min
Delta R.T.: -0.013 min
Response: 587536
Conc: 0.15 ng/ml



#4 Heptachlor

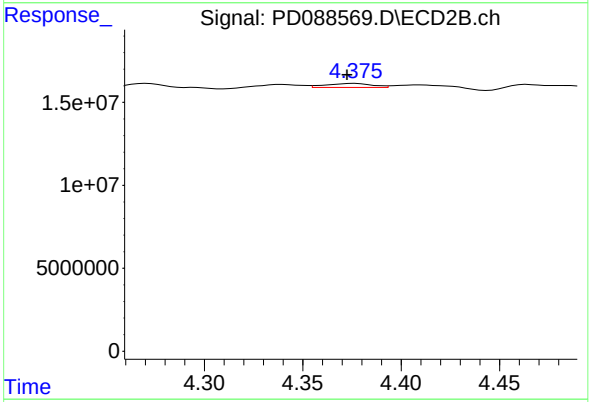
R.T.: 4.078 min
Delta R.T.: -0.009 min
Response: 17680458
Conc: 0.83 ng/ml



#5 Aldrin

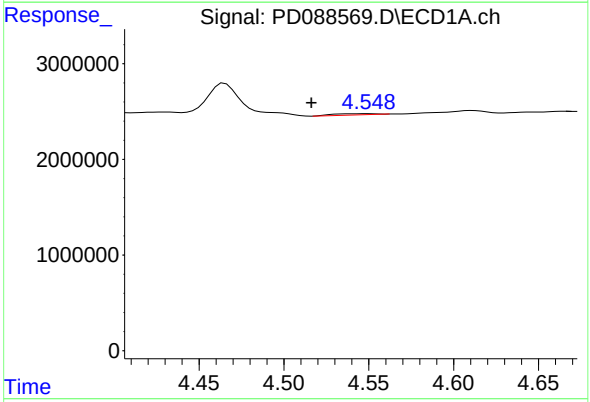
R.T.: 5.296 min
Delta R.T.: 0.023 min
Response: 829802
Conc: 0.21 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725



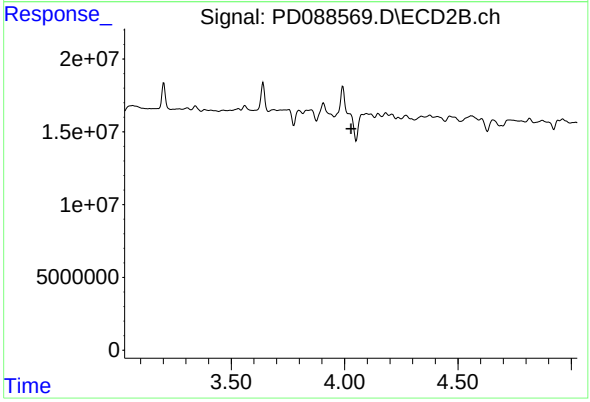
#5 Aldrin

R.T.: 4.377 min
Delta R.T.: 0.004 min
Response: 3839731
Conc: 0.18 ng/ml



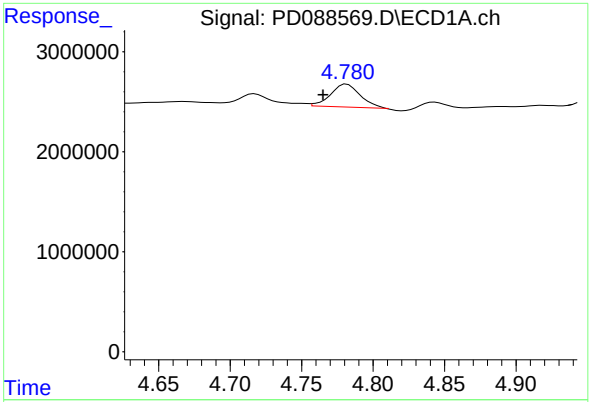
#6 beta-BHC

R.T.: 4.549 min
Delta R.T.: 0.033 min
Response: 228416
Conc: 0.14 ng/ml



#6 beta-BHC

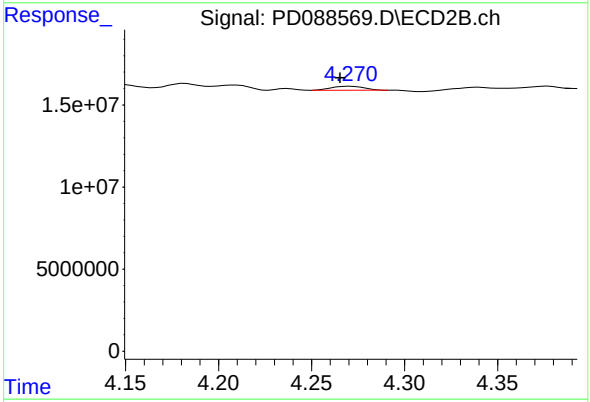
R.T.: 0.000 min
Exp R.T. : 4.028 min
Response: 0
Conc: N.D.



#7 delta-BHC

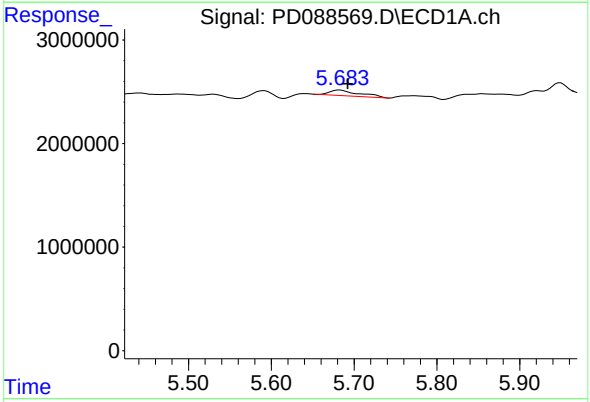
R.T.: 4.782 min
Delta R.T.: 0.017 min
Response: 3265529
Conc: 0.79 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725



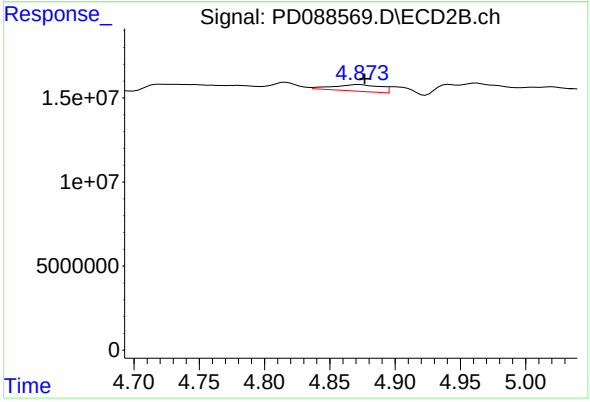
#7 delta-BHC

R.T.: 4.271 min
Delta R.T.: 0.006 min
Response: 2971957
Conc: 0.14 ng/ml



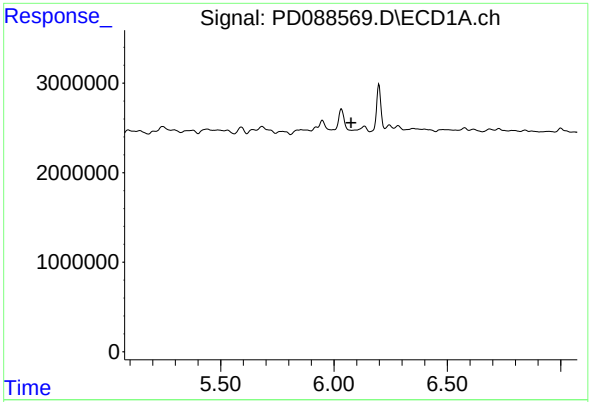
#8 Heptachlor epoxide

R.T.: 5.683 min
Delta R.T.: -0.010 min
Response: 1333024
Conc: 0.37 ng/ml



#8 Heptachlor epoxide

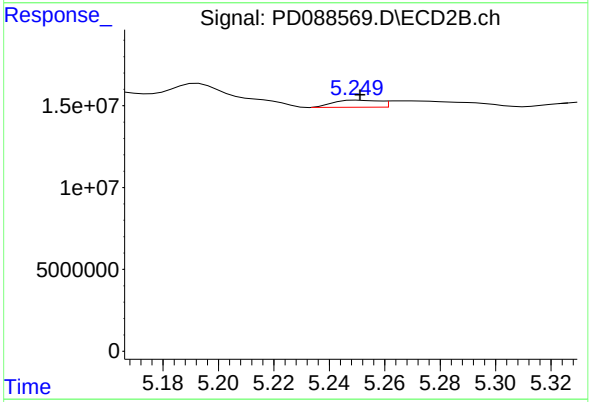
R.T.: 4.872 min
Delta R.T.: -0.004 min
Response: 9846997
Conc: 0.52 ng/ml



#9 Endosulfan I

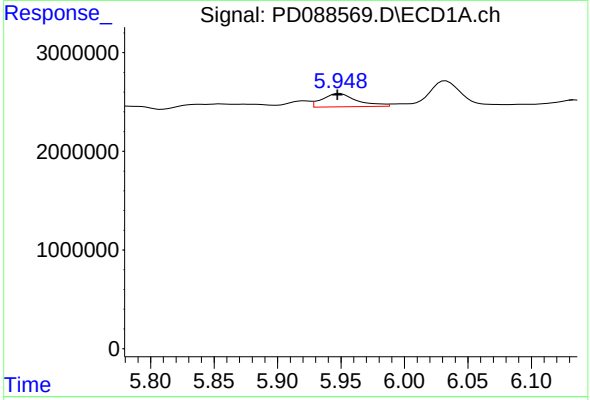
R.T.: 0.000 min
Exp R.T. : 6.076 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725



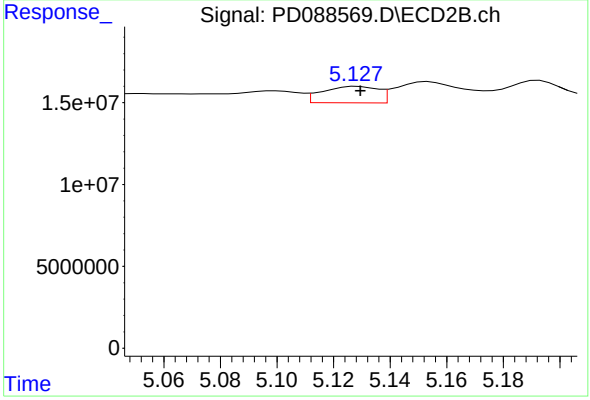
#9 Endosulfan I

R.T.: 5.250 min
Delta R.T.: 0.000 min
Response: 5026030
Conc: 0.28 ng/ml



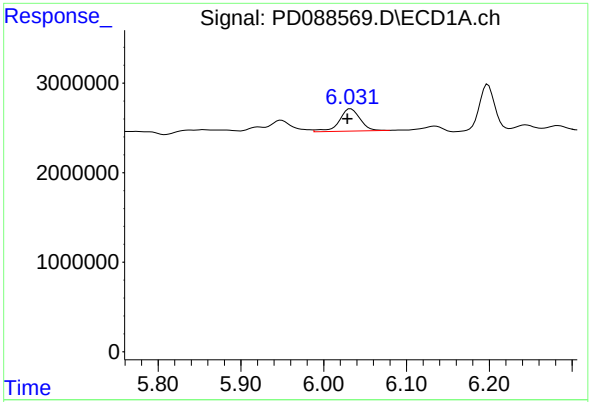
#10 gamma-Chlordane

R.T.: 5.949 min
Delta R.T.: 0.002 min
Response: 2580076
Conc: 0.71 ng/ml



#10 gamma-Chlordane

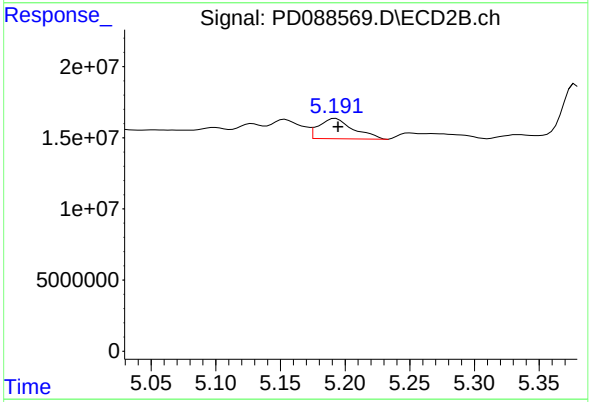
R.T.: 5.128 min
Delta R.T.: -0.001 min
Response: 13713524
Conc: 0.68 ng/ml



#11 alpha-Chlordane

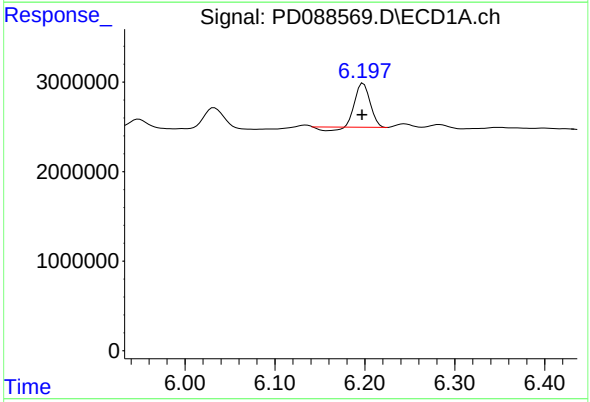
R.T.: 6.033 min
Delta R.T.: 0.004 min
Response: 4339118
Conc: 1.20 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725



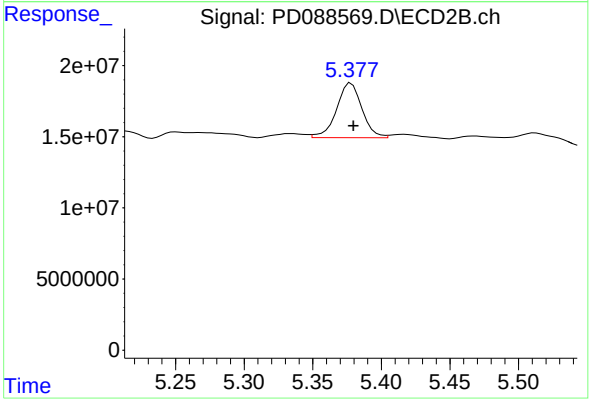
#11 alpha-Chlordane

R.T.: 5.193 min
Delta R.T.: -0.002 min
Response: 26517261
Conc: 1.35 ng/ml



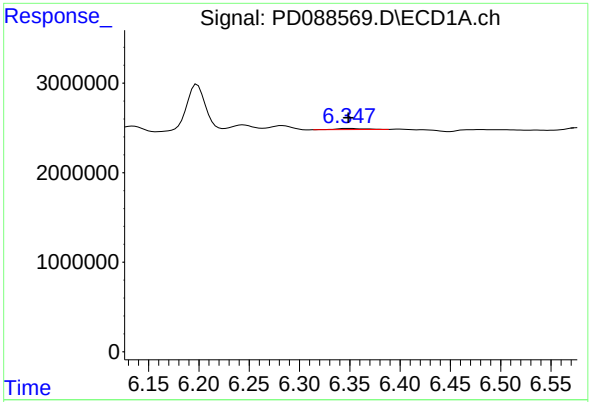
#12 4,4'-DDE

R.T.: 6.198 min
Delta R.T.: 0.001 min
Response: 5348731
Conc: 1.62 ng/ml



#12 4,4'-DDE

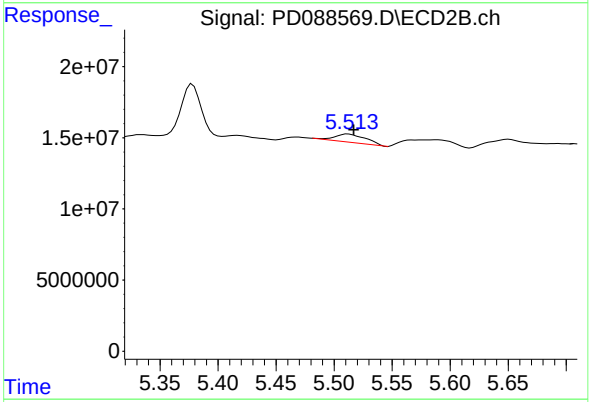
R.T.: 5.378 min
Delta R.T.: -0.001 min
Response: 49381060
Conc: 2.51 ng/ml



#13 Dieldrin

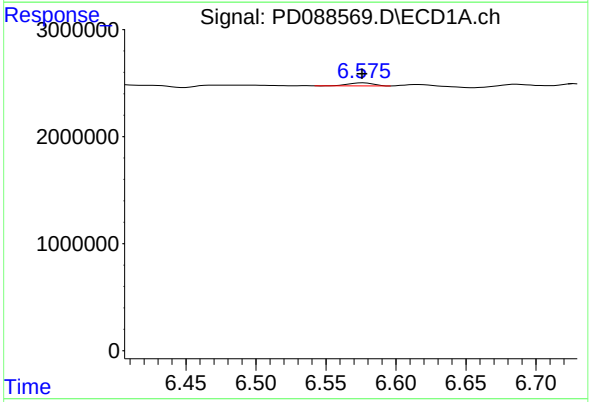
R.T.: 6.348 min
Delta R.T.: 0.000 min
Response: 251570
Conc: 0.07 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725



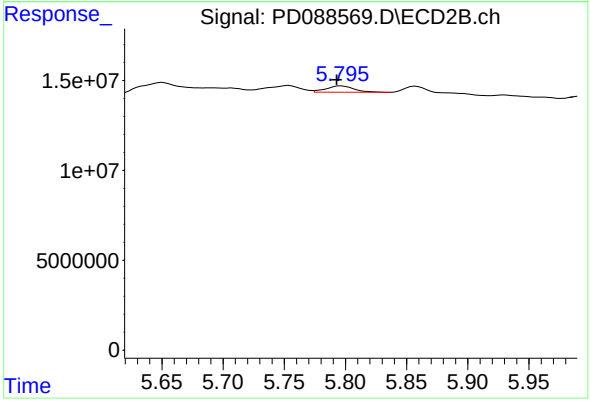
#13 Dieldrin

R.T.: 5.512 min
Delta R.T.: -0.005 min
Response: 10657079
Conc: 0.53 ng/ml



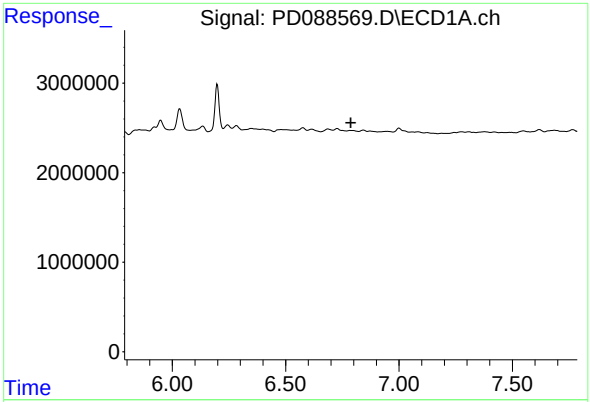
#14 Endrin

R.T.: 6.577 min
Delta R.T.: 0.000 min
Response: 358017
Conc: 0.12 ng/ml



#14 Endrin

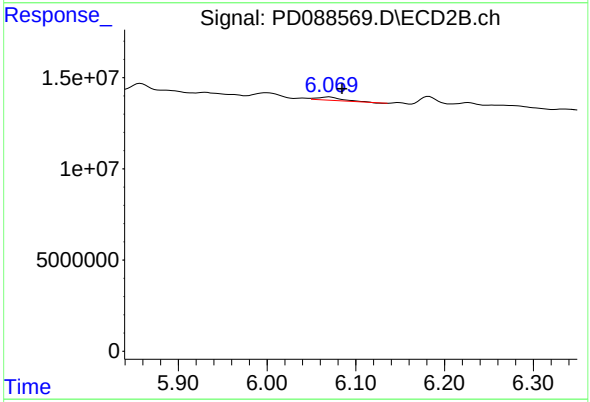
R.T.: 5.797 min
Delta R.T.: 0.004 min
Response: 5601847
Conc: 0.31 ng/ml



#15 Endosulfan II

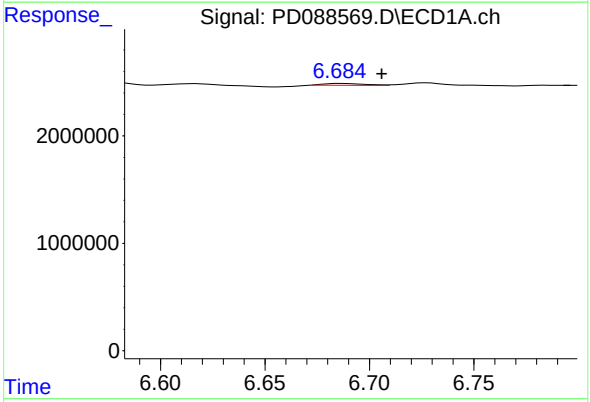
R.T.: 0.000 min
Exp R.T. : 6.787 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725



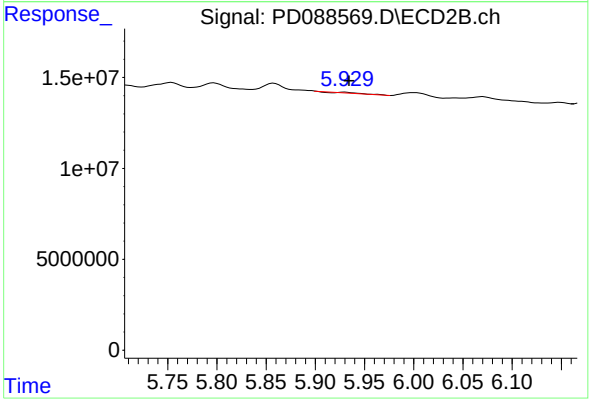
#15 Endosulfan II

R.T.: 6.071 min
Delta R.T.: -0.014 min
Response: 3322701
Conc: 0.19 ng/ml



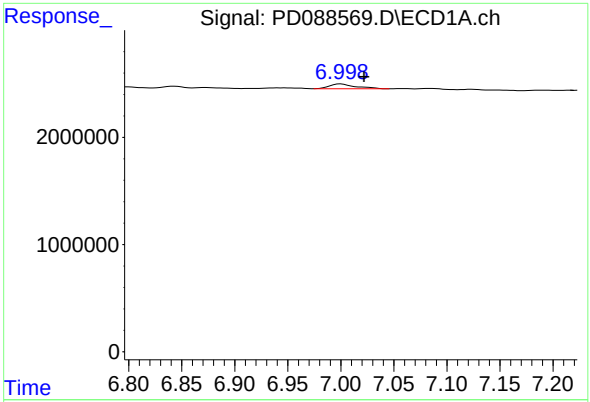
#16 4,4'-DDD

R.T.: 6.686 min
Delta R.T.: -0.020 min
Response: 240295
Conc: 0.10 ng/ml



#16 4,4'-DDD

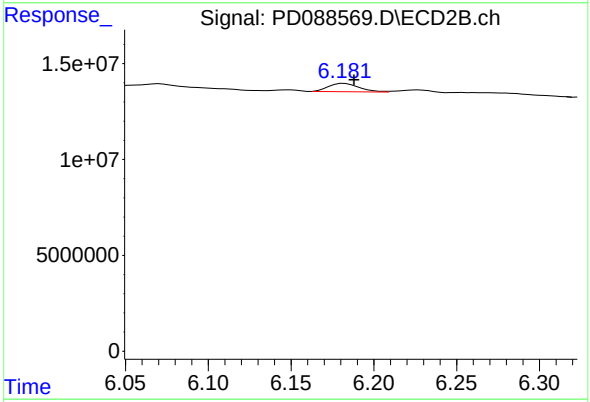
R.T.: 5.930 min
Delta R.T.: -0.004 min
Response: 668148
Conc: 0.04 ng/ml



#17 4,4'-DDT

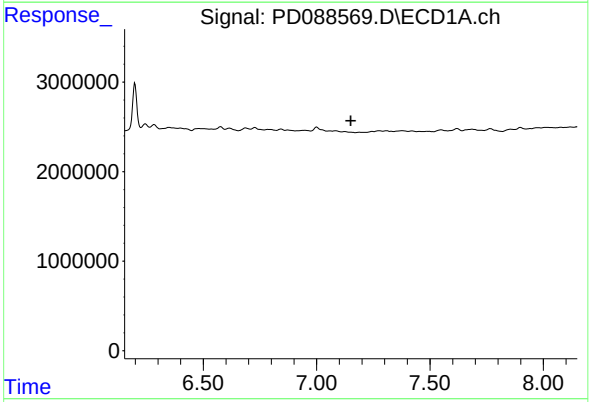
R.T.: 7.000 min
Delta R.T.: -0.022 min
Response: 759411
Conc: 0.27 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725



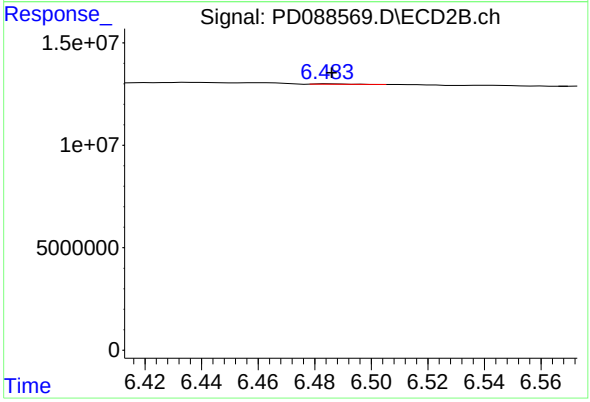
#17 4,4'-DDT

R.T.: 6.182 min
Delta R.T.: -0.006 min
Response: 5599121
Conc: 0.33 ng/ml



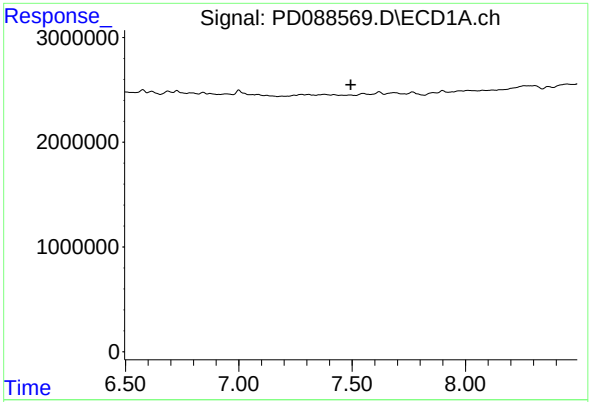
#19 Endosulfan Sulfate

R.T.: 0.000 min
Exp R.T. : 7.150 min
Response: 0
Conc: N.D.



#19 Endosulfan Sulfate

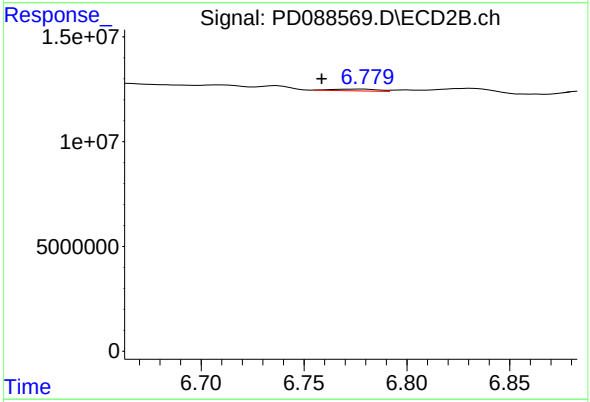
R.T.: 6.485 min
Delta R.T.: -0.001 min
Response: 189670
Conc: 0.01 ng/ml



#20 Methoxychlor

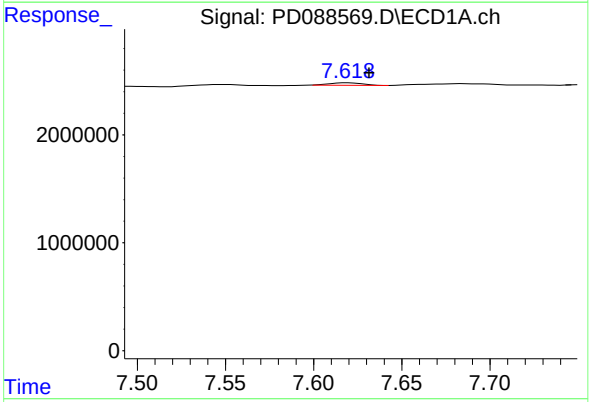
R.T.: 0.000 min
Exp R.T. : 7.495 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725



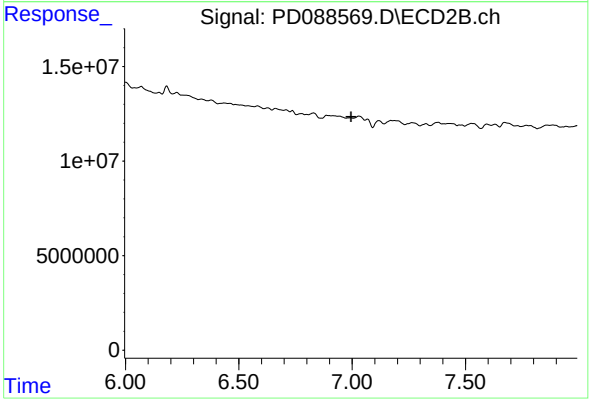
#20 Methoxychlor

R.T.: 6.778 min
Delta R.T.: 0.019 min
Response: 1312264
Conc: 0.14 ng/ml



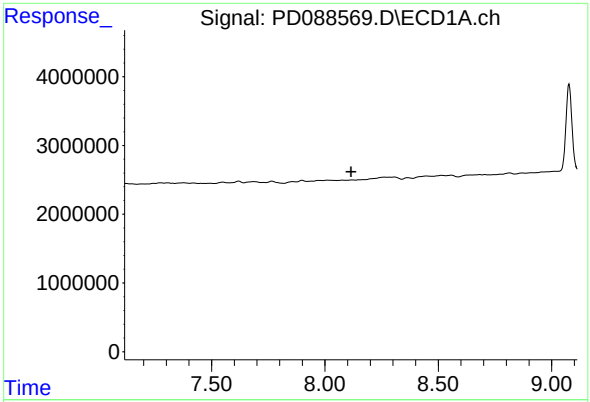
#21 Endrin ketone

R.T.: 7.619 min
Delta R.T.: -0.012 min
Response: 300377
Conc: 0.10 ng/ml



#21 Endrin ketone

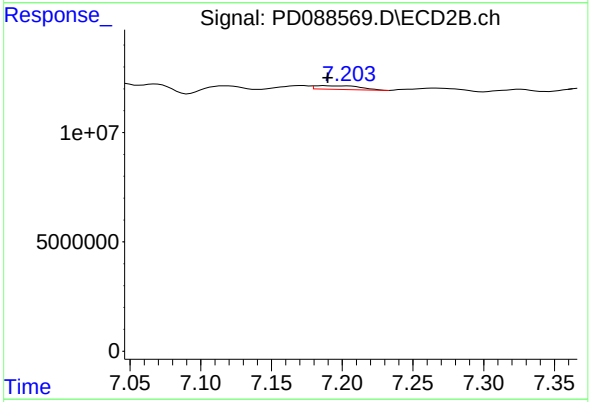
R.T.: 6.994 min
Delta R.T.: -0.002 min
Response: -444797
Conc: N.D.



#22 Mirex

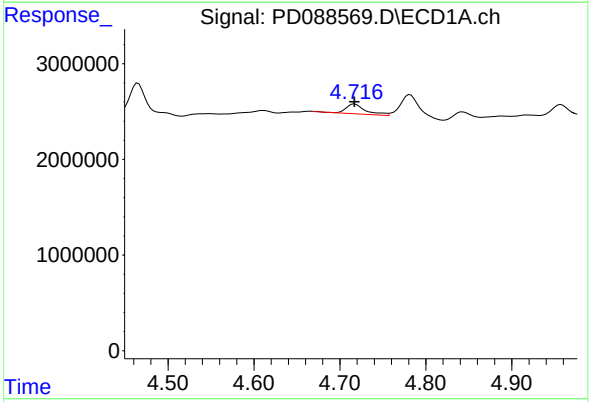
R.T.: 0.000 min
Exp R.T. : 8.115 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725



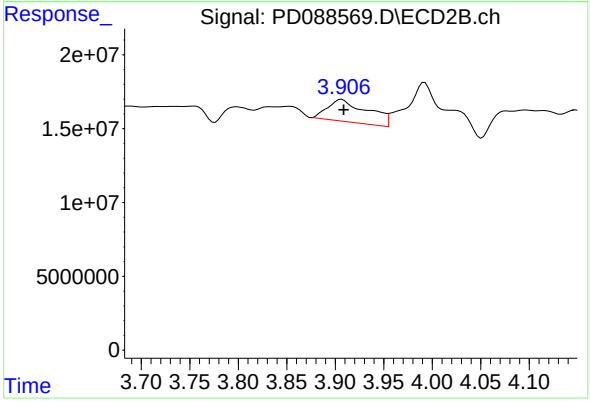
#22 Mirex

R.T.: 7.188 min
Delta R.T.: -0.002 min
Response: 3731226
Conc: 0.25 ng/ml



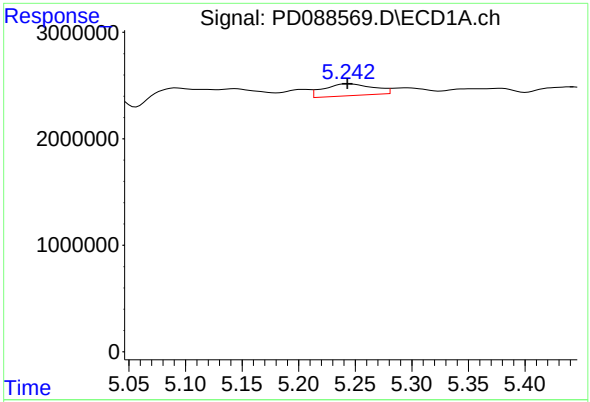
#23 Chlordane-1

R.T.: 4.717 min
Delta R.T.: 0.000 min
Response: 1628436
Conc: 9.80 ng/ml



#23 Chlordane-1

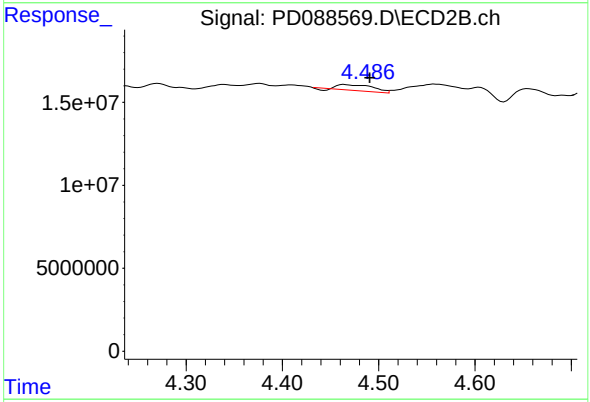
R.T.: 3.907 min
Delta R.T.: -0.002 min
Response: 43201759
Conc: 53.89 ng/ml



#24 Chlordane-2

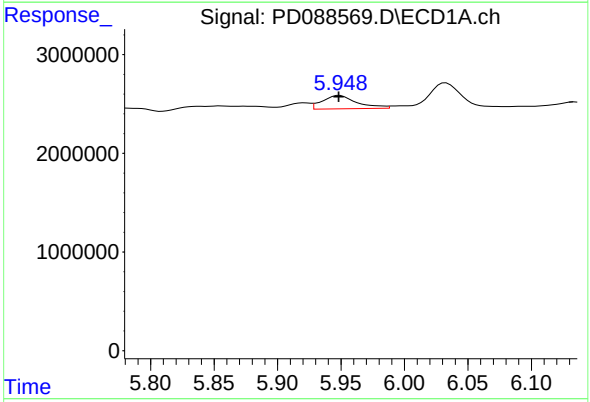
R.T.: 5.243 min
Delta R.T.: 0.000 min
Response: 3379448
Conc: 20.29 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725



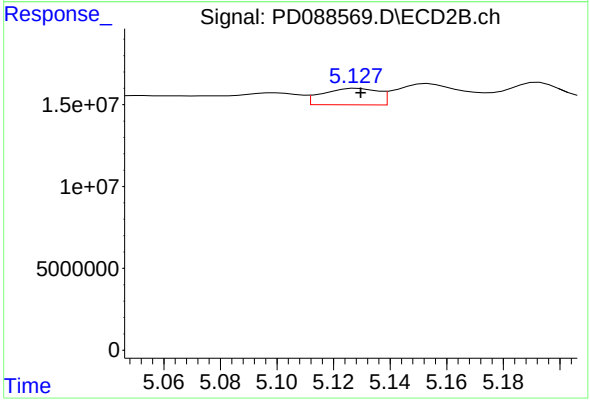
#24 Chlordane-2

R.T.: 4.464 min
Delta R.T.: -0.026 min
Response: 8469713
Conc: 10.26 ng/ml



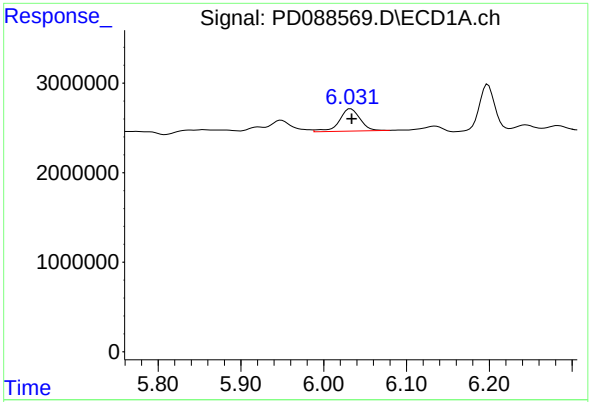
#25 Chlordane-3

R.T.: 5.949 min
Delta R.T.: 0.000 min
Response: 2580076
Conc: 3.82 ng/ml



#25 Chlordane-3

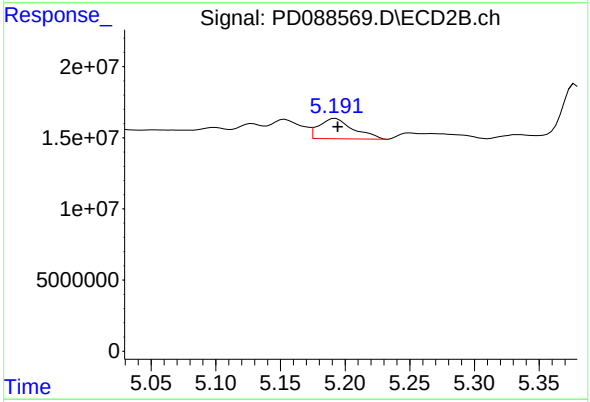
R.T.: 5.128 min
Delta R.T.: -0.001 min
Response: 13713524
Conc: 5.42 ng/ml



#26 Chlordane-4

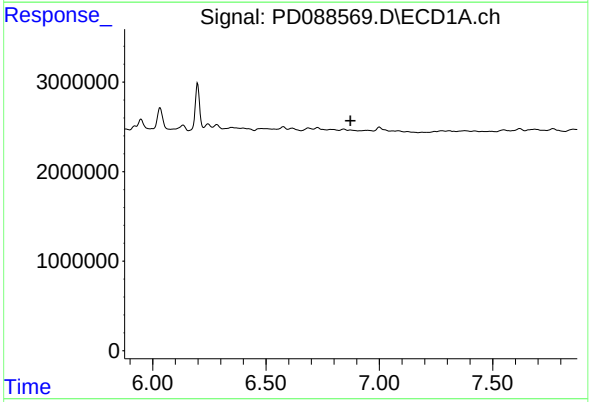
R.T.: 6.033 min
Delta R.T.: -0.001 min
Response: 4339118
Conc: 5.32 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725



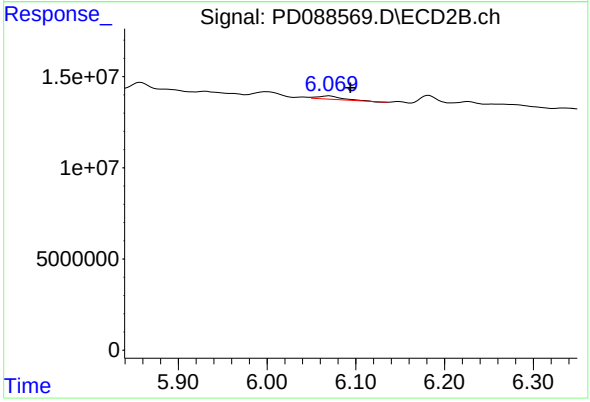
#26 Chlordane-4

R.T.: 5.193 min
Delta R.T.: -0.002 min
Response: 26517261
Conc: 12.40 ng/ml



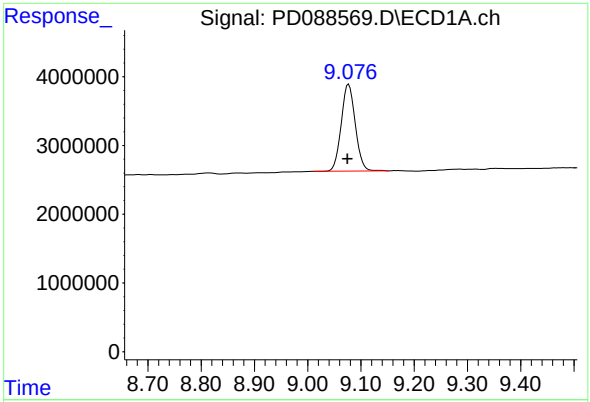
#27 Chlordane-5

R.T.: 0.000 min
Exp R.T. : 6.873 min
Response: 0
Conc: N.D.



#27 Chlordane-5

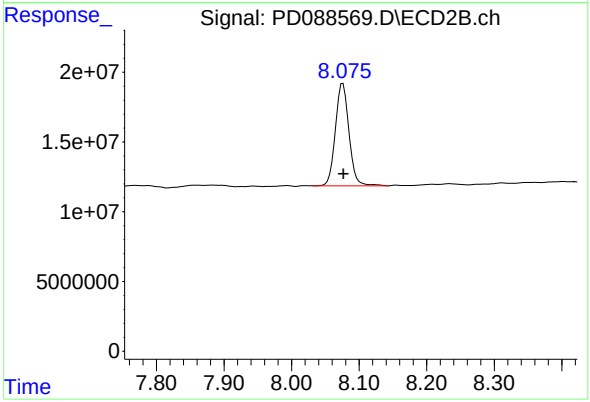
R.T.: 6.071 min
Delta R.T.: -0.023 min
Response: 3322701
Conc: 3.44 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.077 min
Delta R.T.: 0.002 min
Response: 23210771
Conc: 7.02 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 102825270
Conc: 5.56 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088570.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 18:22
Operator : AR\AJ
Sample : Q1984-13
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:20:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
		System Monitoring Compounds							
1)	SA	Tetrachlo...	3.552	2.882	30212154	212.6E6	15.126	14.537	
28)	SA	Decachlor...	9.077	8.075	27089437	107.5E6	8.189	5.818	#
		Target Compounds							
2)	A	alpha-BHC	4.017f	3.388	9894350	9272525	2.295	0.406	#
3)	MA	gamma-BHC...	4.341	3.736	2676858	18200278	0.639	0.845	#
4)	MA	Heptachlor	4.954f	4.076	5632419	16790486	1.395	0.785	#
6)	B	beta-BHC	4.536f	0.000	473629	0	0.292	N.D.	#
7)	B	delta-BHC	4.781f	4.257	3035263	2163308	0.736	0.102	#
8)	B	Heptachlo...	0.000	4.874	0	3555076	N.D.	0.188	#
9)	A	Endosulfan I	6.068	5.269f	567819	35083496	0.168	1.948	#
10)	B	gamma-Chl...	5.948	5.126	4172878	48152300	1.152	2.373	#
11)	B	alpha-Chl...	6.032	5.194	5725030	44409557	1.586	2.265	#
12)	B	4,4'-DDE	6.198	5.378	2907760	27758031	0.882	1.409	#
13)	MA	Dieldrin	6.352	5.514	1964281	18883044	0.550	0.947	#
14)	MA	Endrin	6.579	5.796	976912	19198072	0.328	1.055	#
15)	B	Endosulfa...	6.789	6.070	1157904	6552623	0.370	0.374	
16)	A	4,4'-DDD	6.692	0.000	2439407	0	0.970	N.D.	#
17)	MA	4,4'-DDT	7.025	6.199	1007397	25061425	0.363	1.473	#
18)	B	Endrin al...	6.935f	6.248f	2211159	63492472	0.958	4.774	#
19)	B	Endosulfa...	7.123f	6.477	169544	953855	0.059	0.056	
21)	B	Endrin ke...	0.000	6.973f	0	1691706	N.D.	0.090	#
22)		Mirex	8.138f	7.181	765900	8163770	0.326	0.551	#
23)		Chlordane-1	4.717	3.904	399683	26702941	2.406	33.308	#
24)		Chlordane-2	5.240	4.494	2458543	4400955	14.763	5.333	#
25)		Chlordane-3	5.948	5.126	4172878	48152300	6.186	19.040	#
26)		Chlordane-4	6.032	5.194	5725030	44409557	7.022	20.770	#
27)		Chlordane-5	6.863	6.105	197139	4581885	1.451	4.745	#

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

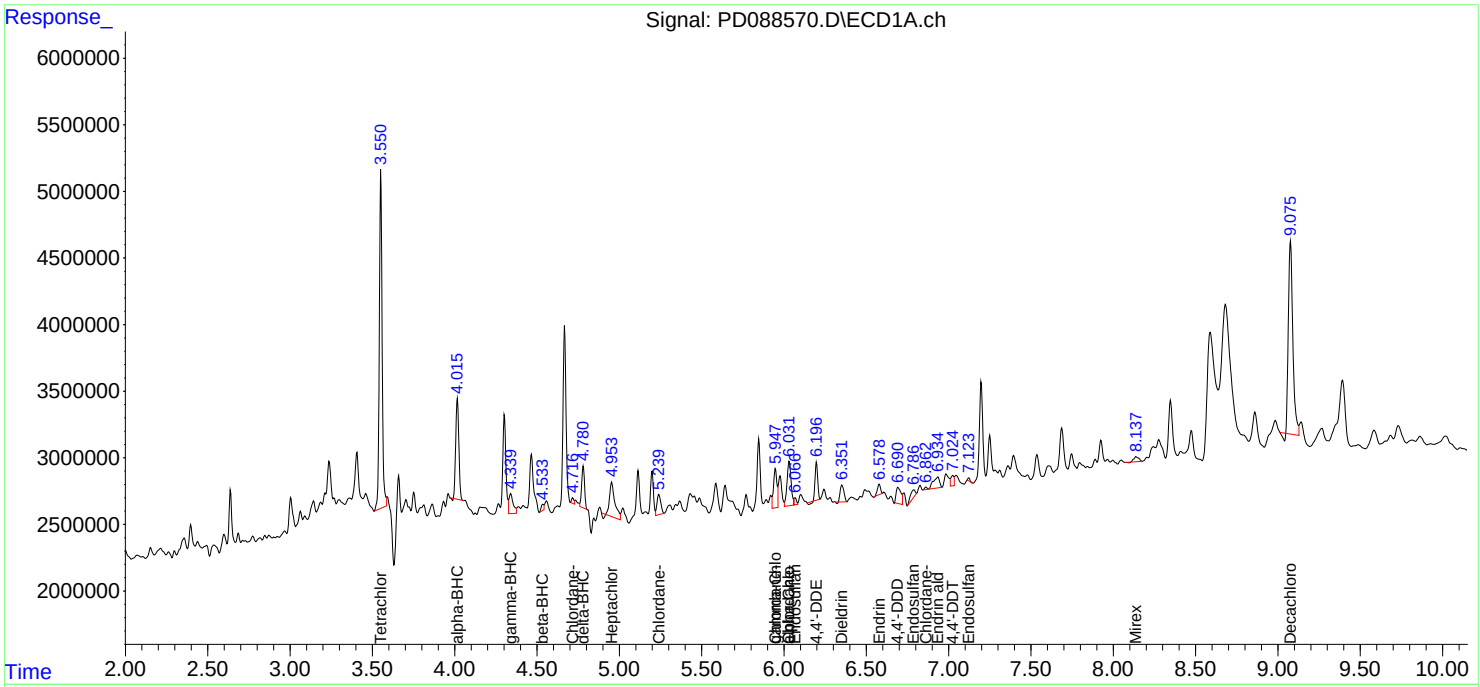
Quantitation Report (Not Reviewed)

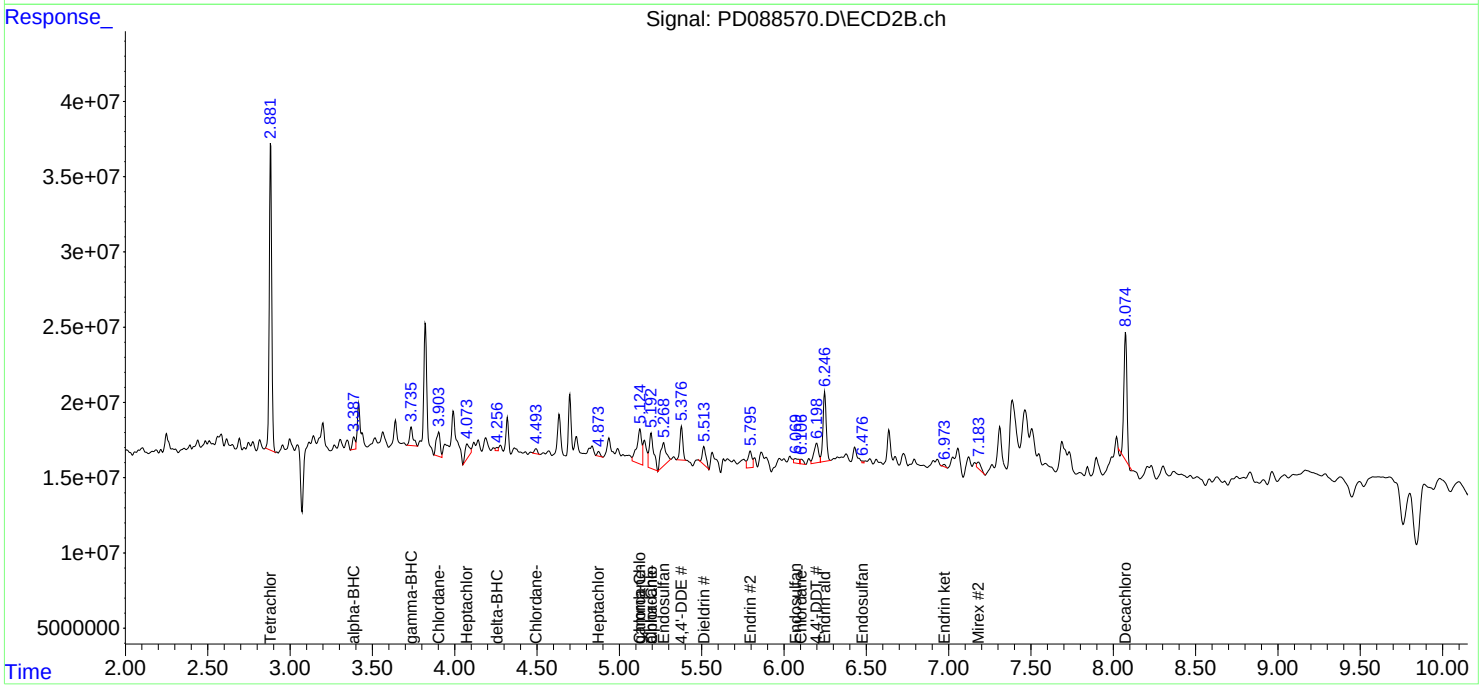
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088570.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 18:22
Operator : AR\AJ
Sample : Q1984-13
Misc :
ALS Vial : 17 Sample Multiplier: 1

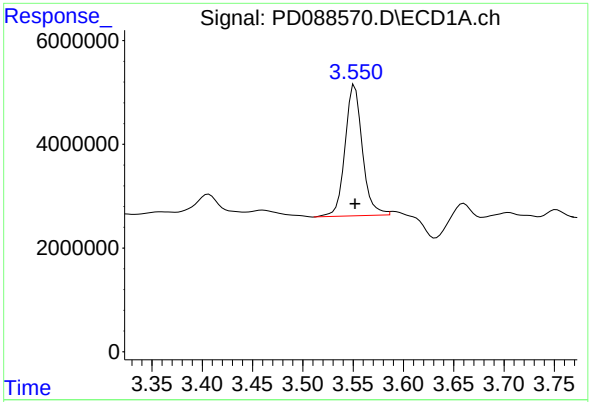
Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:20:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



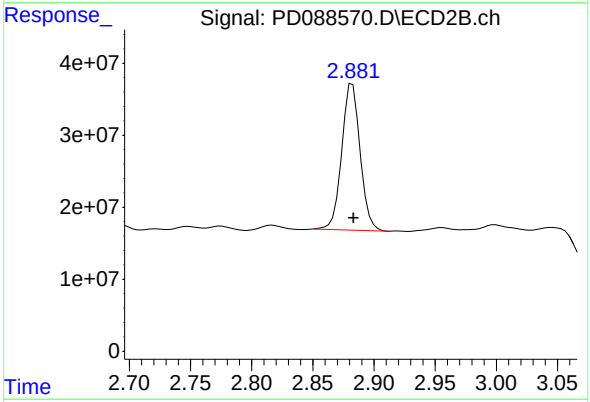




#1 Tetrachloro-m-xylene

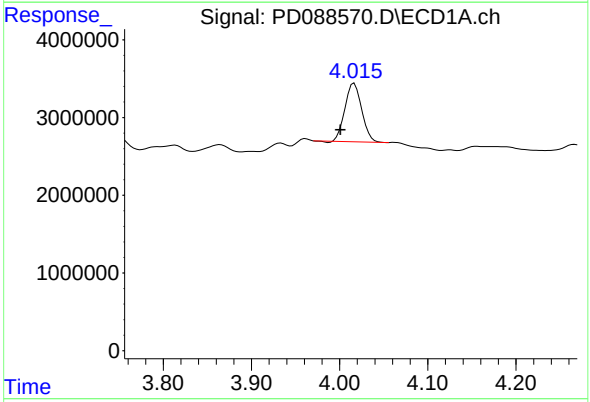
R.T.: 3.552 min
Delta R.T.: 0.000 min
Response: 30212154
Conc: 15.13 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725



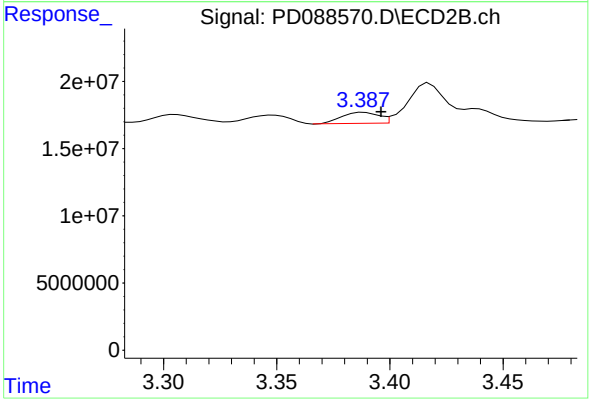
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 212559852
Conc: 14.54 ng/ml



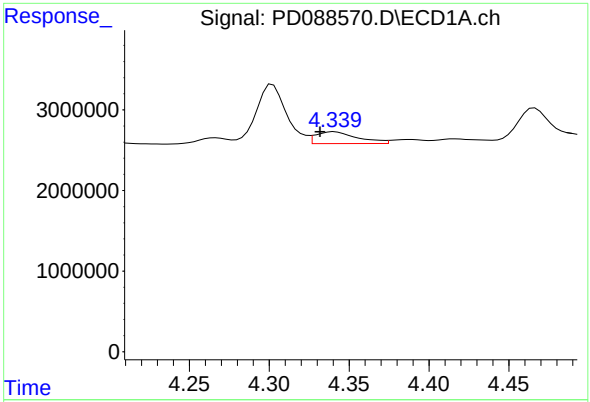
#2 alpha-BHC

R.T.: 4.017 min
Delta R.T.: 0.016 min
Response: 9894350
Conc: 2.29 ng/ml



#2 alpha-BHC

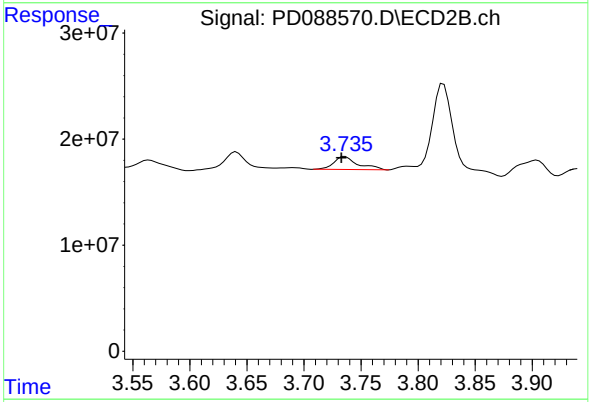
R.T.: 3.388 min
Delta R.T.: -0.008 min
Response: 9272525
Conc: 0.41 ng/ml



#3 gamma-BHC (Lindane)

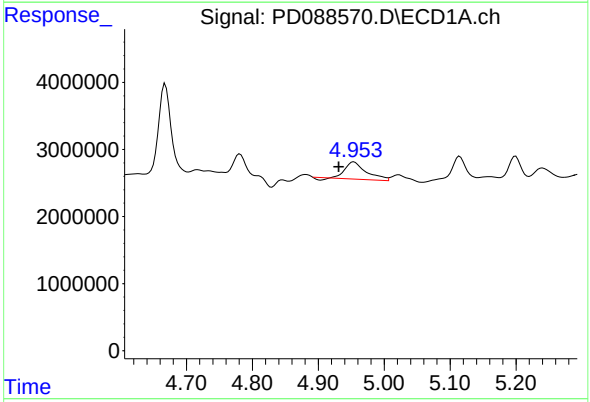
R.T.: 4.341 min
Delta R.T.: 0.009 min
Response: 2676858
Conc: 0.64 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725



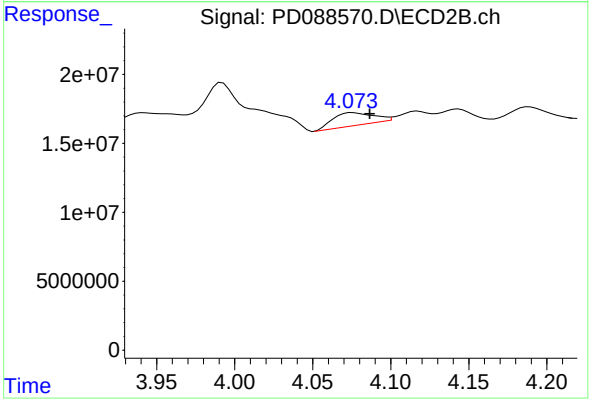
#3 gamma-BHC (Lindane)

R.T.: 3.736 min
Delta R.T.: 0.003 min
Response: 18200278
Conc: 0.85 ng/ml



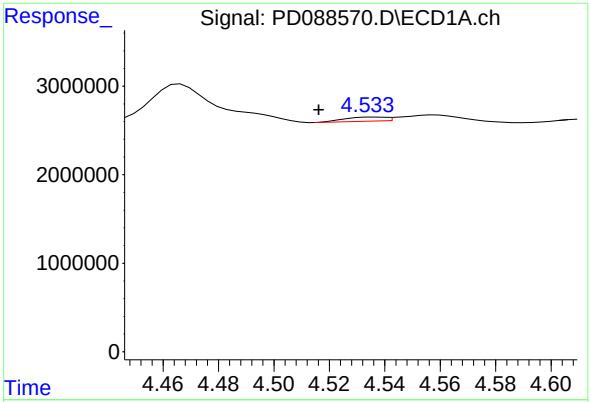
#4 Heptachlor

R.T.: 4.954 min
Delta R.T.: 0.023 min
Response: 5632419
Conc: 1.39 ng/ml



#4 Heptachlor

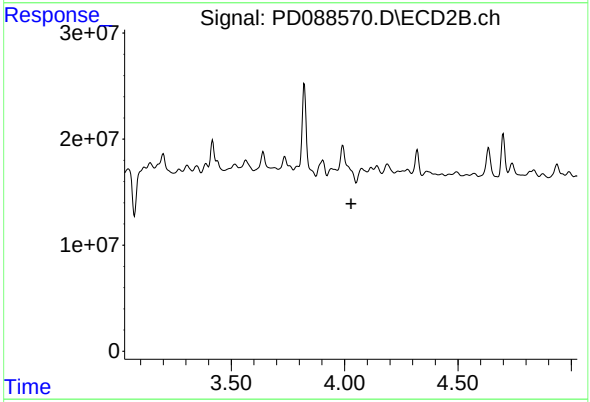
R.T.: 4.076 min
Delta R.T.: -0.011 min
Response: 16790486
Conc: 0.78 ng/ml



#6 beta-BHC

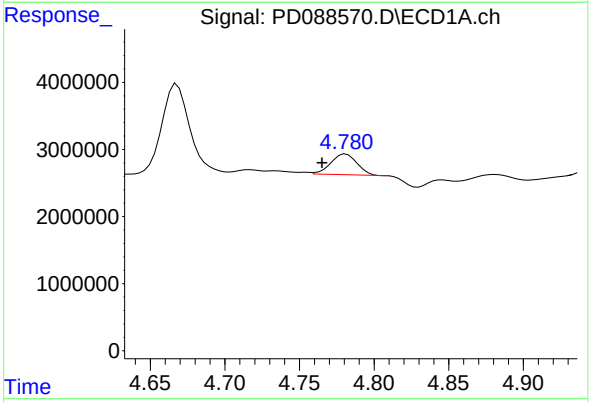
R.T.: 4.536 min
Delta R.T.: 0.020 min
Response: 473629
Conc: 0.29 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725



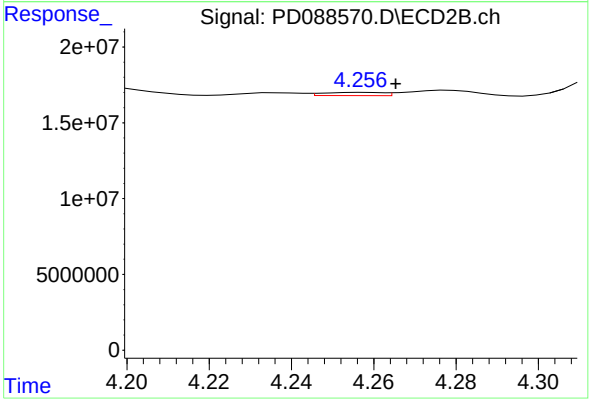
#6 beta-BHC

R.T.: 0.000 min
Exp R.T. : 4.028 min
Response: 0
Conc: N.D.



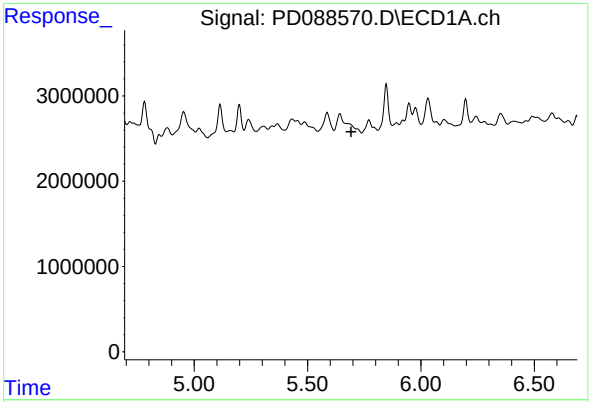
#7 delta-BHC

R.T.: 4.781 min
Delta R.T.: 0.016 min
Response: 3035263
Conc: 0.74 ng/ml



#7 delta-BHC

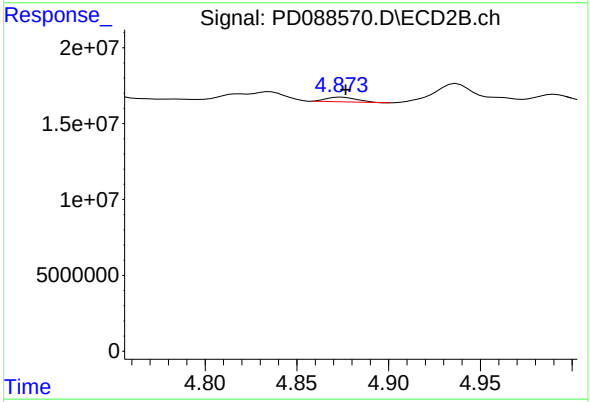
R.T.: 4.257 min
Delta R.T.: -0.008 min
Response: 2163308
Conc: 0.10 ng/ml



#8 Heptachlor epoxide

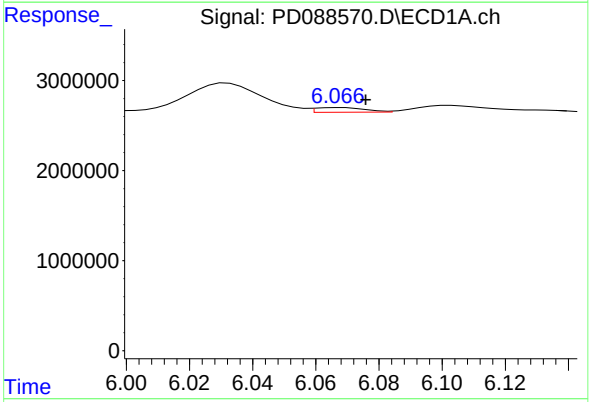
R.T.: 0.000 min
Exp R.T. : 5.692 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725



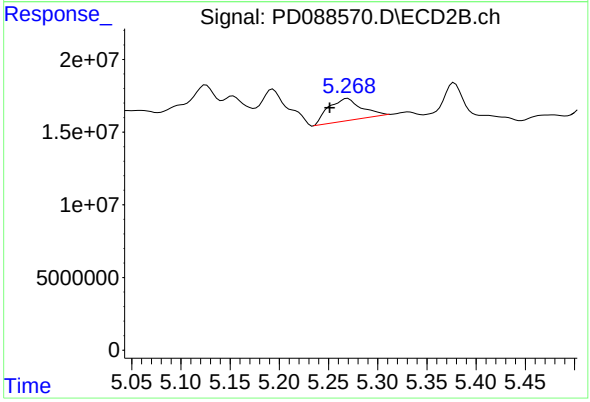
#8 Heptachlor epoxide

R.T.: 4.874 min
Delta R.T.: -0.002 min
Response: 3555076
Conc: 0.19 ng/ml



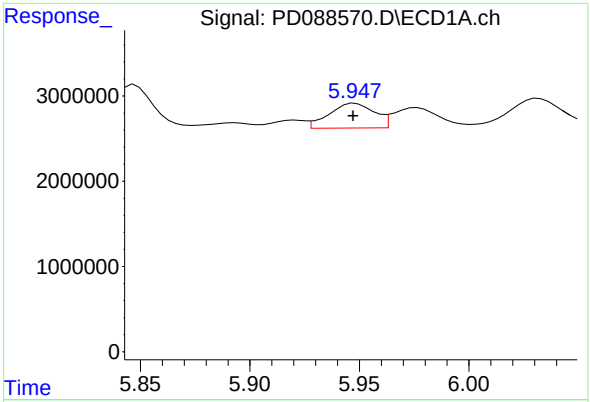
#9 Endosulfan I

R.T.: 6.068 min
Delta R.T.: -0.008 min
Response: 567819
Conc: 0.17 ng/ml



#9 Endosulfan I

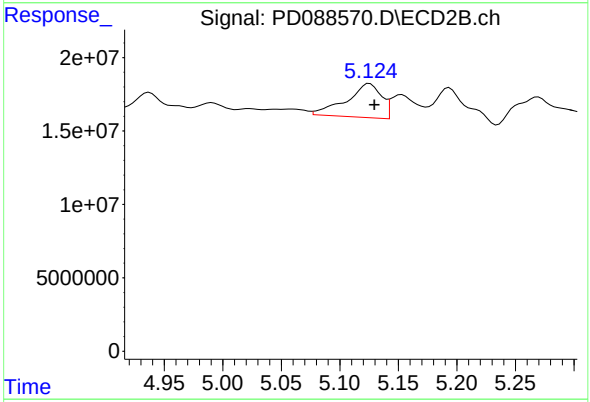
R.T.: 5.269 min
Delta R.T.: 0.018 min
Response: 35083496
Conc: 1.95 ng/ml



#10 gamma-Chlordane

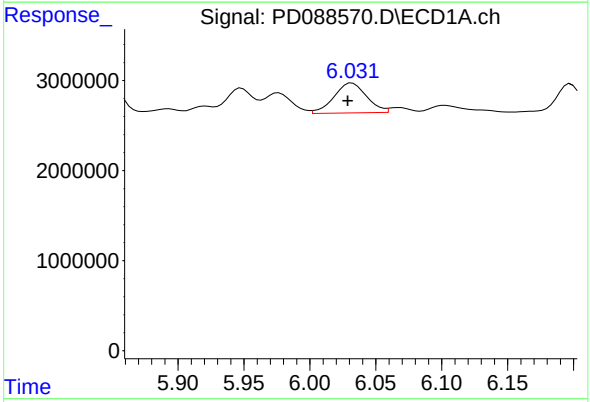
R.T.: 5.948 min
Delta R.T.: 0.001 min
Response: 4172878
Conc: 1.15 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725



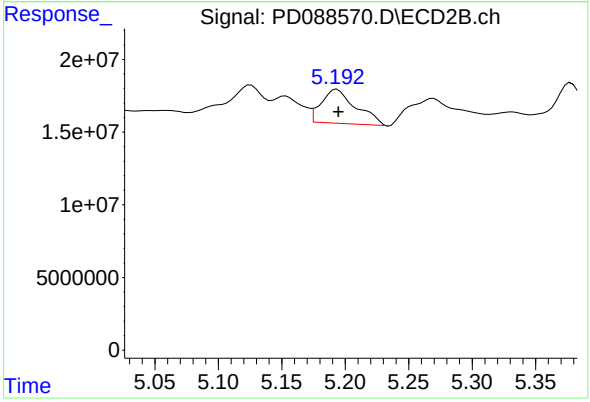
#10 gamma-Chlordane

R.T.: 5.126 min
Delta R.T.: -0.004 min
Response: 48152300
Conc: 2.37 ng/ml



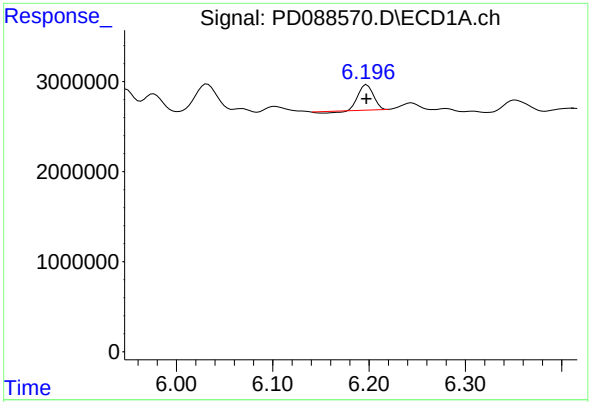
#11 alpha-Chlordane

R.T.: 6.032 min
Delta R.T.: 0.003 min
Response: 5725030
Conc: 1.59 ng/ml



#11 alpha-Chlordane

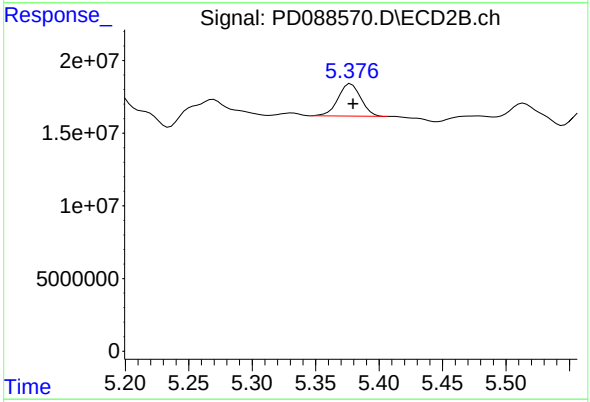
R.T.: 5.194 min
Delta R.T.: 0.000 min
Response: 44409557
Conc: 2.27 ng/ml



#12 4,4'-DDE

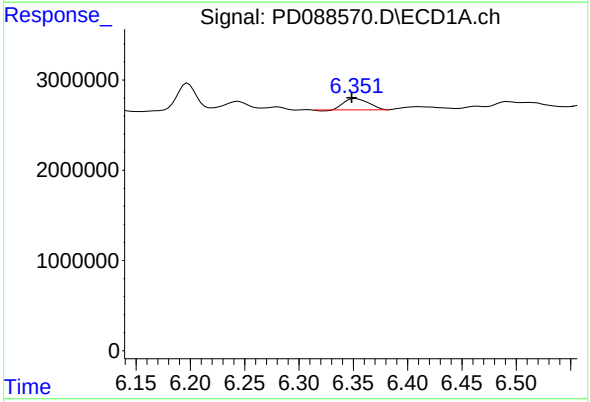
R.T.: 6.198 min
Delta R.T.: 0.000 min
Response: 2907760
Conc: 0.88 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725



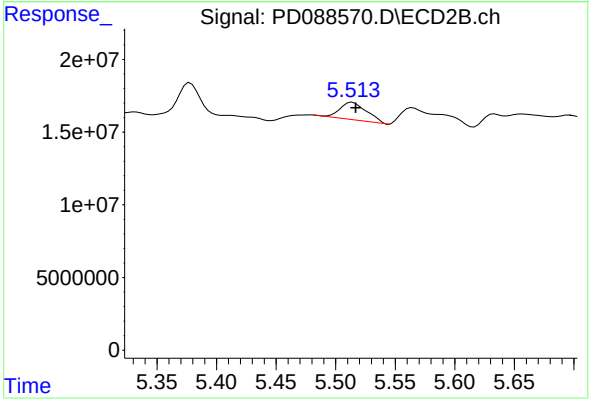
#12 4,4'-DDE

R.T.: 5.378 min
Delta R.T.: -0.002 min
Response: 27758031
Conc: 1.41 ng/ml



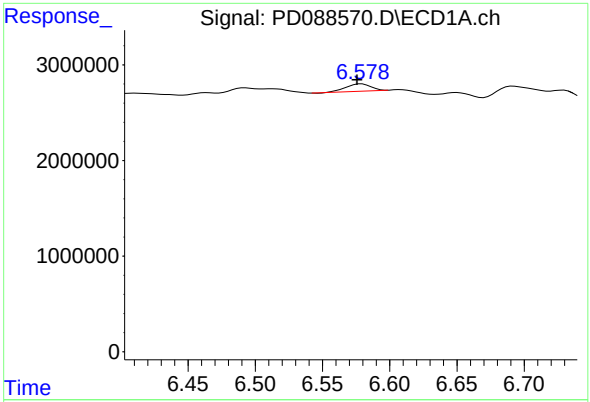
#13 Dieldrin

R.T.: 6.352 min
Delta R.T.: 0.003 min
Response: 1964281
Conc: 0.55 ng/ml



#13 Dieldrin

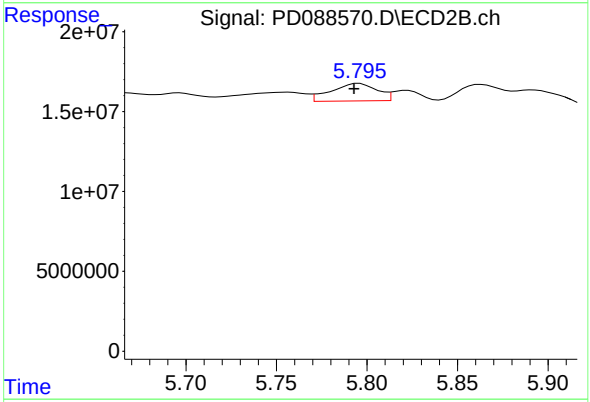
R.T.: 5.514 min
Delta R.T.: -0.003 min
Response: 18883044
Conc: 0.95 ng/ml



#14 Endrin

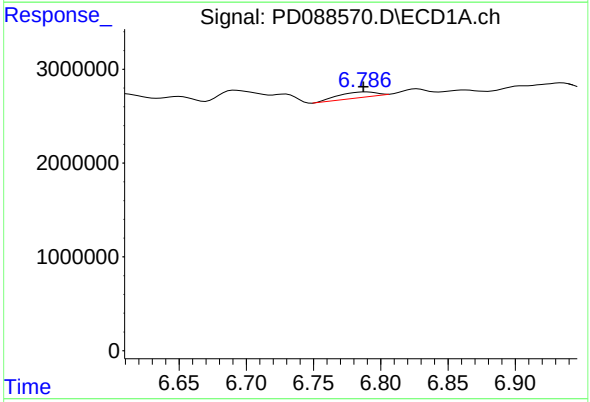
R.T.: 6.579 min
Delta R.T.: 0.003 min
Response: 976912
Conc: 0.33 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725



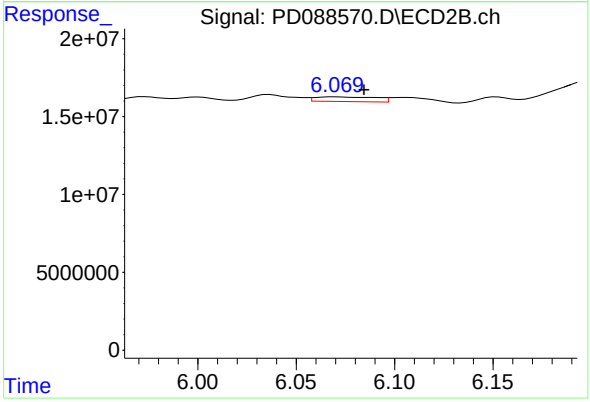
#14 Endrin

R.T.: 5.796 min
Delta R.T.: 0.003 min
Response: 19198072
Conc: 1.05 ng/ml



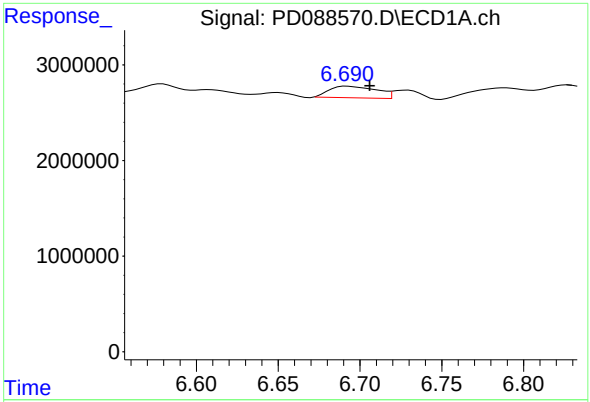
#15 Endosulfan II

R.T.: 6.789 min
Delta R.T.: 0.002 min
Response: 1157904
Conc: 0.37 ng/ml



#15 Endosulfan II

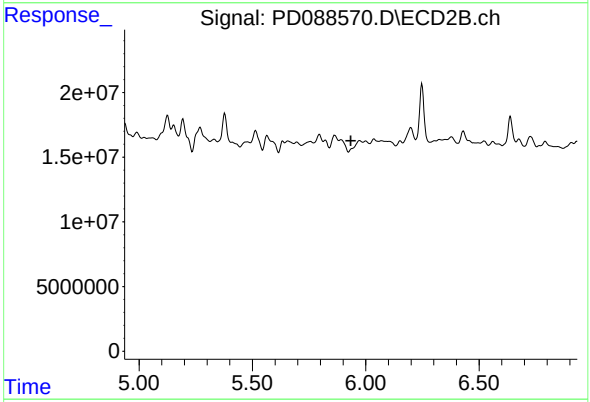
R.T.: 6.070 min
Delta R.T.: -0.015 min
Response: 6552623
Conc: 0.37 ng/ml



#16 4,4'-DDD

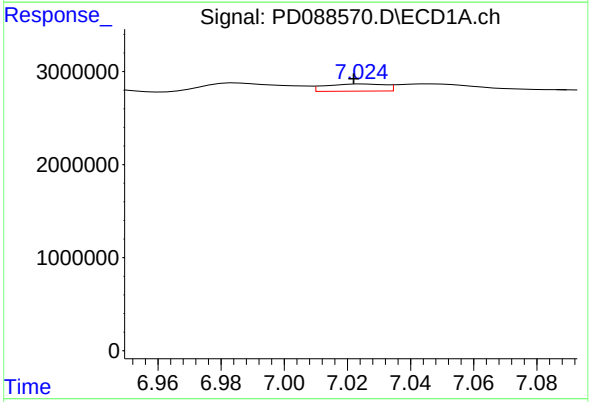
R.T.: 6.692 min
Delta R.T.: -0.014 min
Response: 2439407
Conc: 0.97 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725



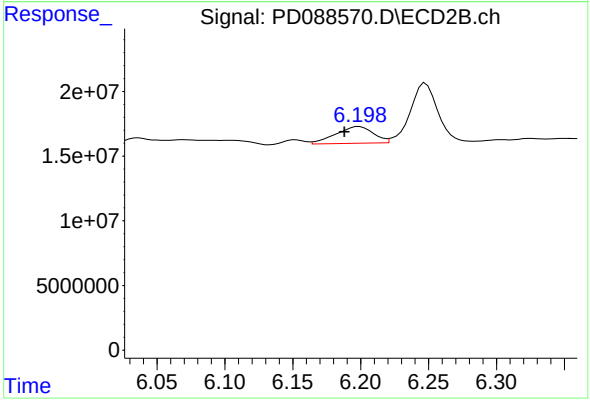
#16 4,4'-DDD

R.T.: 0.000 min
Exp R.T. : 5.934 min
Response: 0
Conc: N.D.



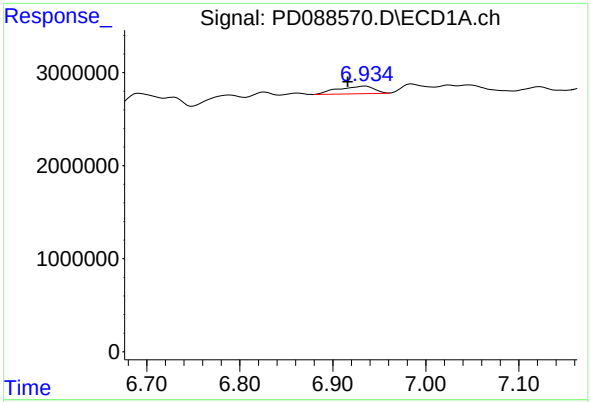
#17 4,4'-DDT

R.T.: 7.025 min
Delta R.T.: 0.003 min
Response: 1007397
Conc: 0.36 ng/ml



#17 4,4'-DDT

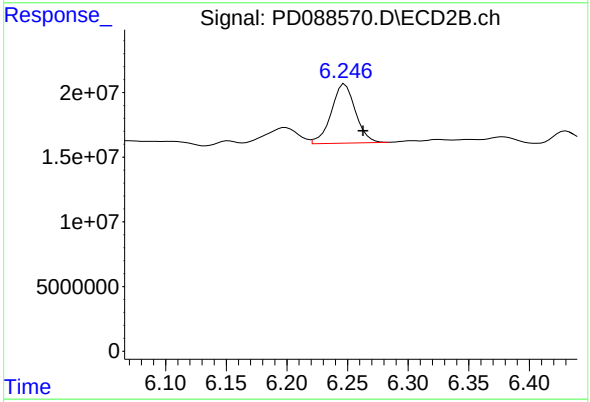
R.T.: 6.199 min
Delta R.T.: 0.011 min
Response: 25061425
Conc: 1.47 ng/ml



#18 Endrin aldehyde

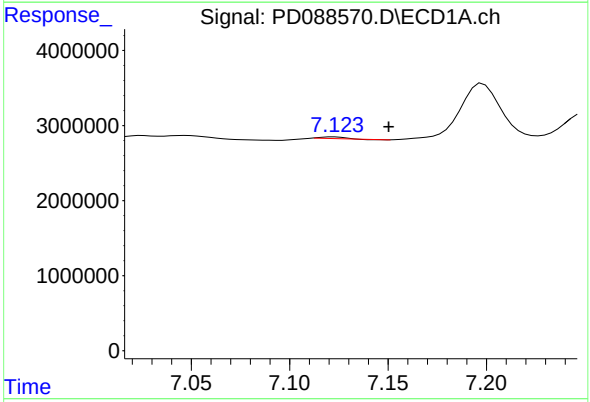
R.T.: 6.935 min
Delta R.T.: 0.019 min
Response: 2211159
Conc: 0.96 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725



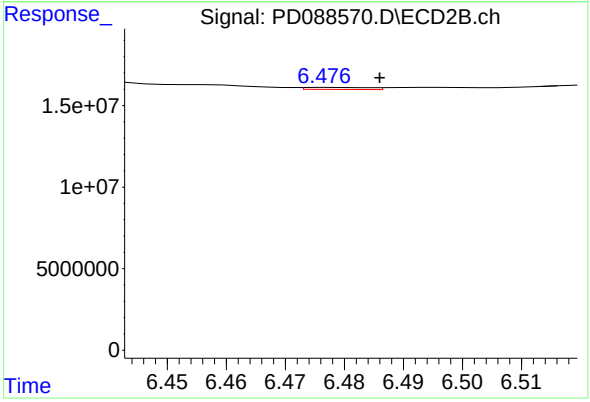
#18 Endrin aldehyde

R.T.: 6.248 min
Delta R.T.: -0.015 min
Response: 63492472
Conc: 4.77 ng/ml



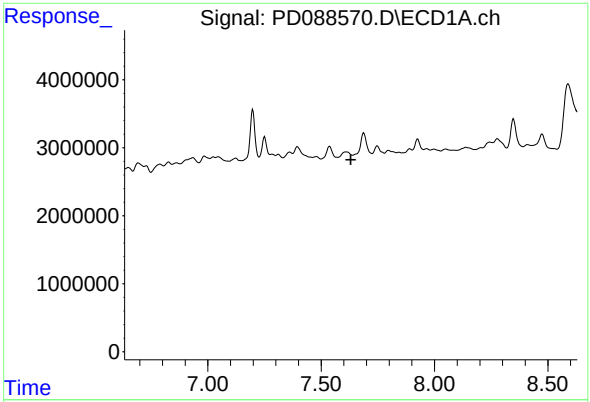
#19 Endosulfan Sulfate

R.T.: 7.123 min
Delta R.T.: -0.027 min
Response: 169544
Conc: 0.06 ng/ml



#19 Endosulfan Sulfate

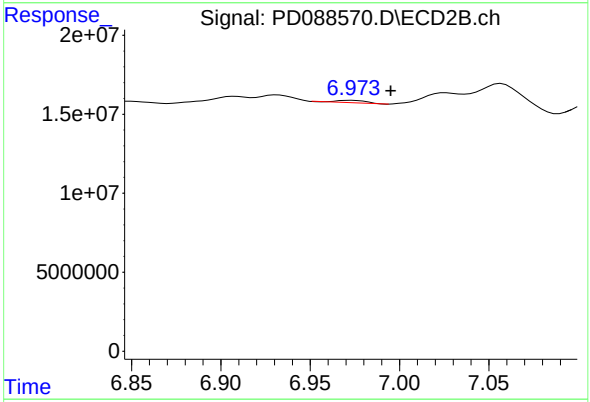
R.T.: 6.477 min
Delta R.T.: -0.009 min
Response: 953855
Conc: 0.06 ng/ml



#21 Endrin ketone

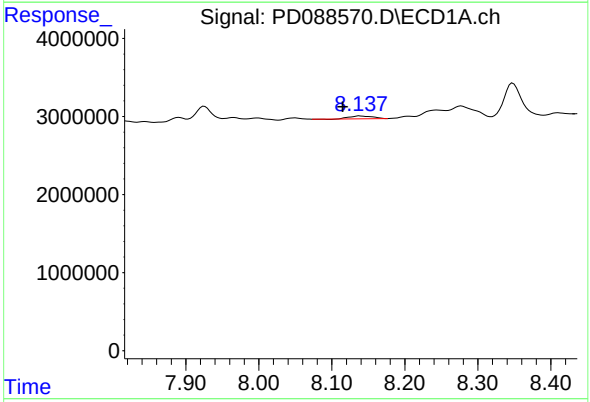
R.T.: 0.000 min
Exp R.T. : 7.631 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725



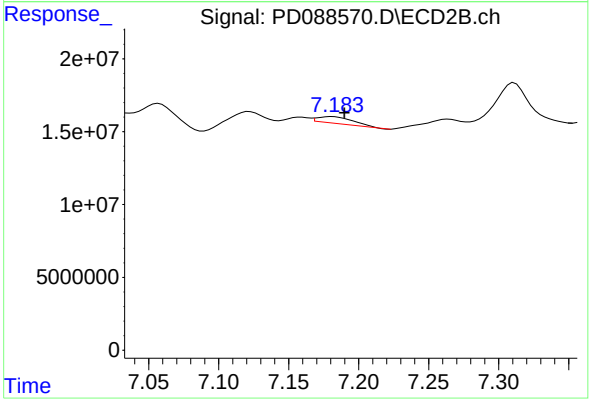
#21 Endrin ketone

R.T.: 6.973 min
Delta R.T.: -0.022 min
Response: 1691706
Conc: 0.09 ng/ml



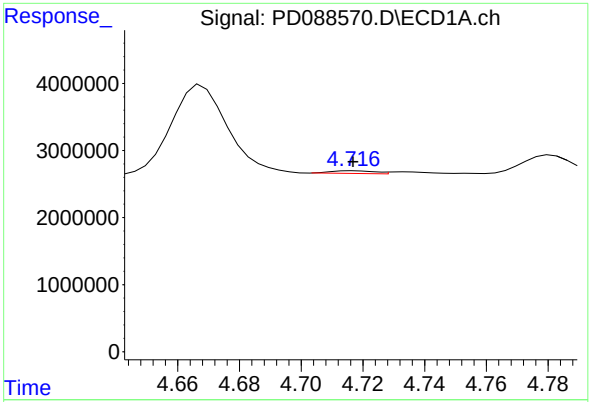
#22 Mirex

R.T.: 8.138 min
Delta R.T.: 0.023 min
Response: 765900
Conc: 0.33 ng/ml



#22 Mirex

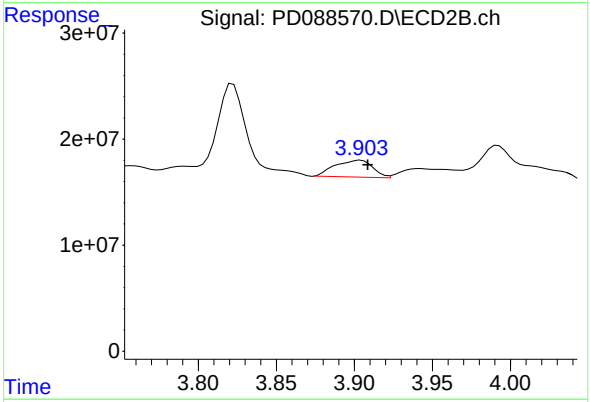
R.T.: 7.181 min
Delta R.T.: -0.008 min
Response: 8163770
Conc: 0.55 ng/ml



#23 Chlordane-1

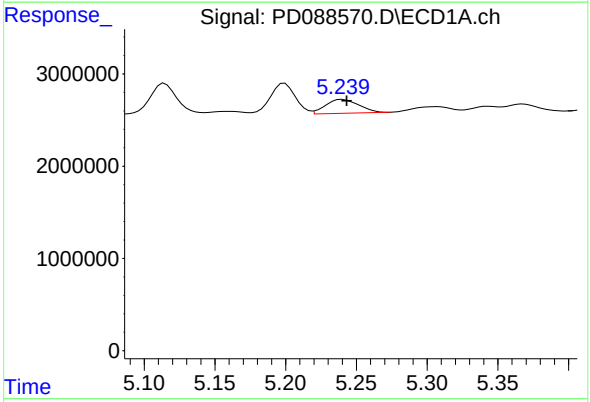
R.T.: 4.717 min
Delta R.T.: 0.000 min
Response: 399683
Conc: 2.41 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725



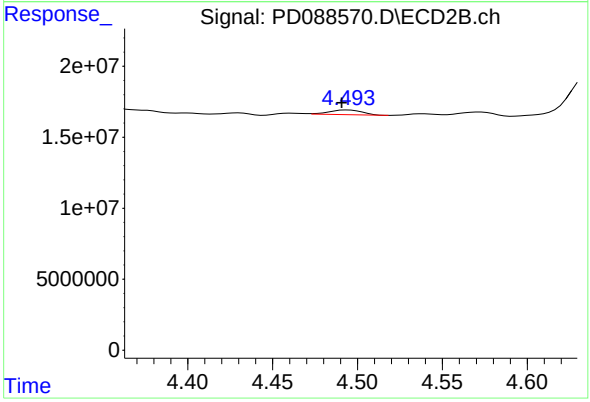
#23 Chlordane-1

R.T.: 3.904 min
Delta R.T.: -0.005 min
Response: 26702941
Conc: 33.31 ng/ml



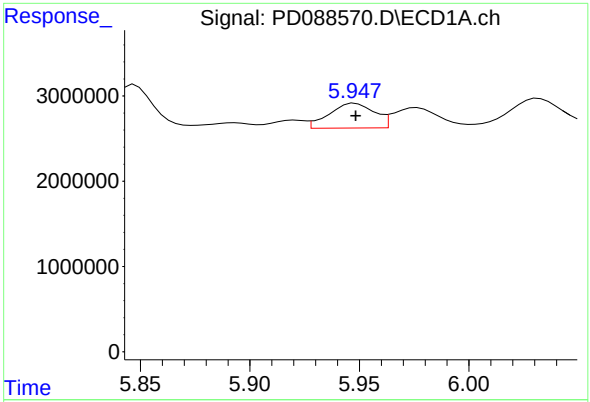
#24 Chlordane-2

R.T.: 5.240 min
Delta R.T.: -0.003 min
Response: 2458543
Conc: 14.76 ng/ml



#24 Chlordane-2

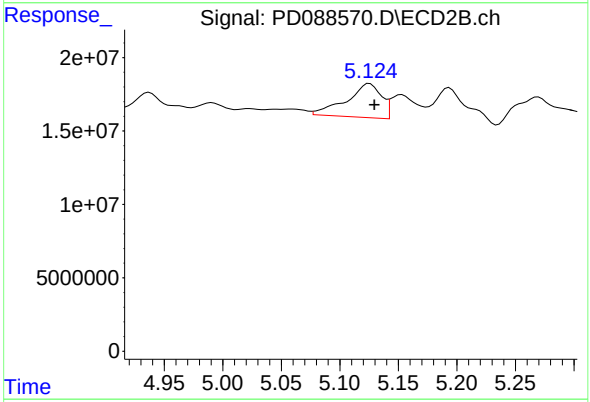
R.T.: 4.494 min
Delta R.T.: 0.004 min
Response: 4400955
Conc: 5.33 ng/ml



#25 Chlordane-3

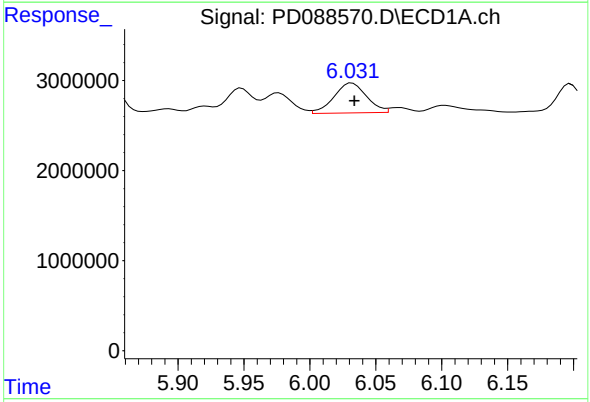
R.T.: 5.948 min
Delta R.T.: 0.000 min
Response: 4172878
Conc: 6.19 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725



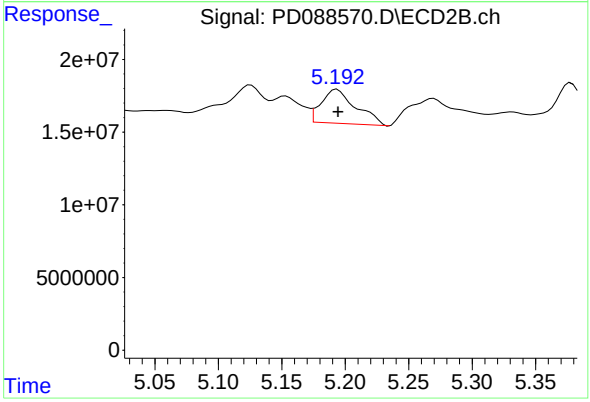
#25 Chlordane-3

R.T.: 5.126 min
Delta R.T.: -0.004 min
Response: 48152300
Conc: 19.04 ng/ml



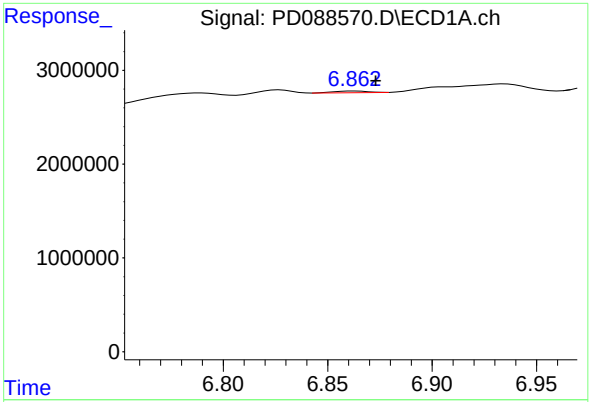
#26 Chlordane-4

R.T.: 6.032 min
Delta R.T.: -0.002 min
Response: 5725030
Conc: 7.02 ng/ml



#26 Chlordane-4

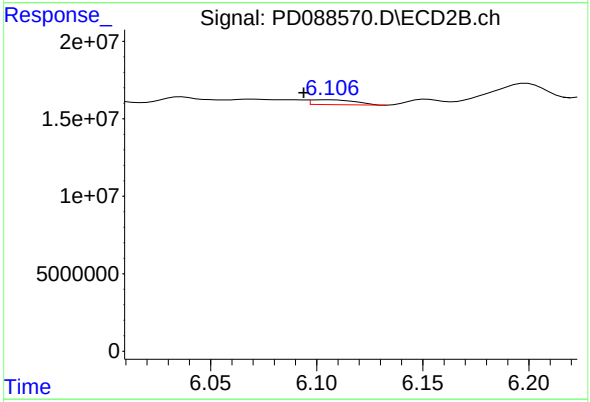
R.T.: 5.194 min
Delta R.T.: 0.000 min
Response: 44409557
Conc: 20.77 ng/ml



#27 Chlordane-5

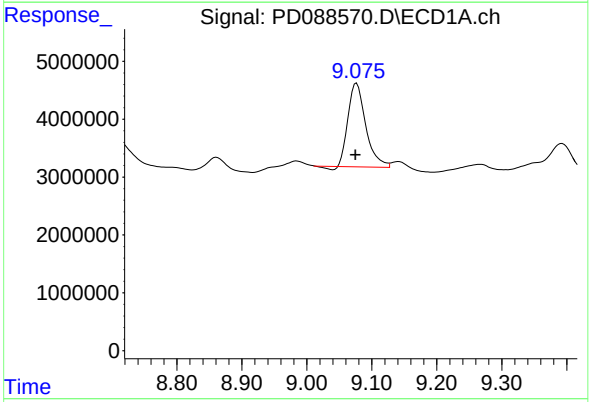
R.T.: 6.863 min
Delta R.T.: -0.010 min
Response: 197139
Conc: 1.45 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725



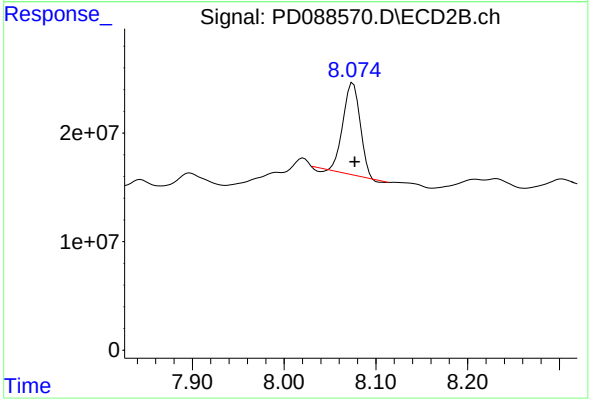
#27 Chlordane-5

R.T.: 6.105 min
Delta R.T.: 0.011 min
Response: 4581885
Conc: 4.75 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.077 min
Delta R.T.: 0.002 min
Response: 27089437
Conc: 8.19 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.002 min
Response: 107517104
Conc: 5.82 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088571.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 18:35
Operator : AR\AJ
Sample : Q1984-15
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:21:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	System Monitoring Compounds							
1)	SA Tetrachlo...	3.552	2.882	27159112	195.4E6	13.597	13.362	
28)	SA Decachlor...	9.077	8.076	17180145	82701407	5.193	4.475	
	Target Compounds							
2)	A alpha-BHC	4.017f	3.389	13876012	7973644	3.218	0.349	#
3)	MA gamma-BHC...	4.341	3.736	3553320	15096485	0.849	0.701	
4)	MA Heptachlor	4.954f	4.074	5614981	18043146	1.390	0.843	#
6)	B beta-BHC	4.536f	0.000	554439	0	0.342	N.D.	#
7)	B delta-BHC	4.781f	4.257	5544429	1706045	1.344	0.080	#
8)	B Heptachlo...	0.000	4.874	0	3505234	N.D.	0.186	#
9)	A Endosulfan I	6.067	5.268f	698919	36752241	0.207	2.040	#
10)	B gamma-Chl...	5.947	5.125	4472895	49395338	1.235	2.434	#
11)	B alpha-Chl...	6.031	5.193	5744097	43469189	1.591	2.218	#
12)	B 4,4'-DDE	6.197	5.377	3125563	26575589	0.948	1.349	#
13)	MA Dieldrin	6.352	5.512	2084386	15029827	0.584	0.754	#
14)	MA Endrin	6.579	5.794	1319054	19673307	0.442	1.081	#
15)	B Endosulfa...	6.787	6.102f	1484288	1821877	0.475	0.104	#
16)	A 4,4'-DDD	6.695	5.938	2631727	-4754593	1.046	N.D.	#
17)	MA 4,4'-DDT	7.048f	6.199	3915159	58229693	1.410	3.422	#
18)	B Endrin al...	6.935f	6.247f	3799896	84136648	1.646	6.326	#
20)	A Methoxychlor	7.489	0.000	3882966	0	2.589	N.D.	#
21)	B Endrin ke...	0.000	6.976f	0	209079	N.D.	0.011	#
22)	Mirex	8.142f	0.000	19709697	0	8.393	N.D.	#
23)	Chlordane-1	4.718	3.905	-2141612	27002465	N.D.	33.681	
24)	Chlordane-2	5.239	4.494	2872726	4189103	17.251	5.076	#
25)	Chlordane-3	5.947	5.125	4472895	49395338	6.631	19.531	#
26)	Chlordane-4	6.031	5.193	5744097	43469189	7.045	20.330	#
27)	Chlordane-5	0.000	6.102	0	1821877	N.D.	1.887	#

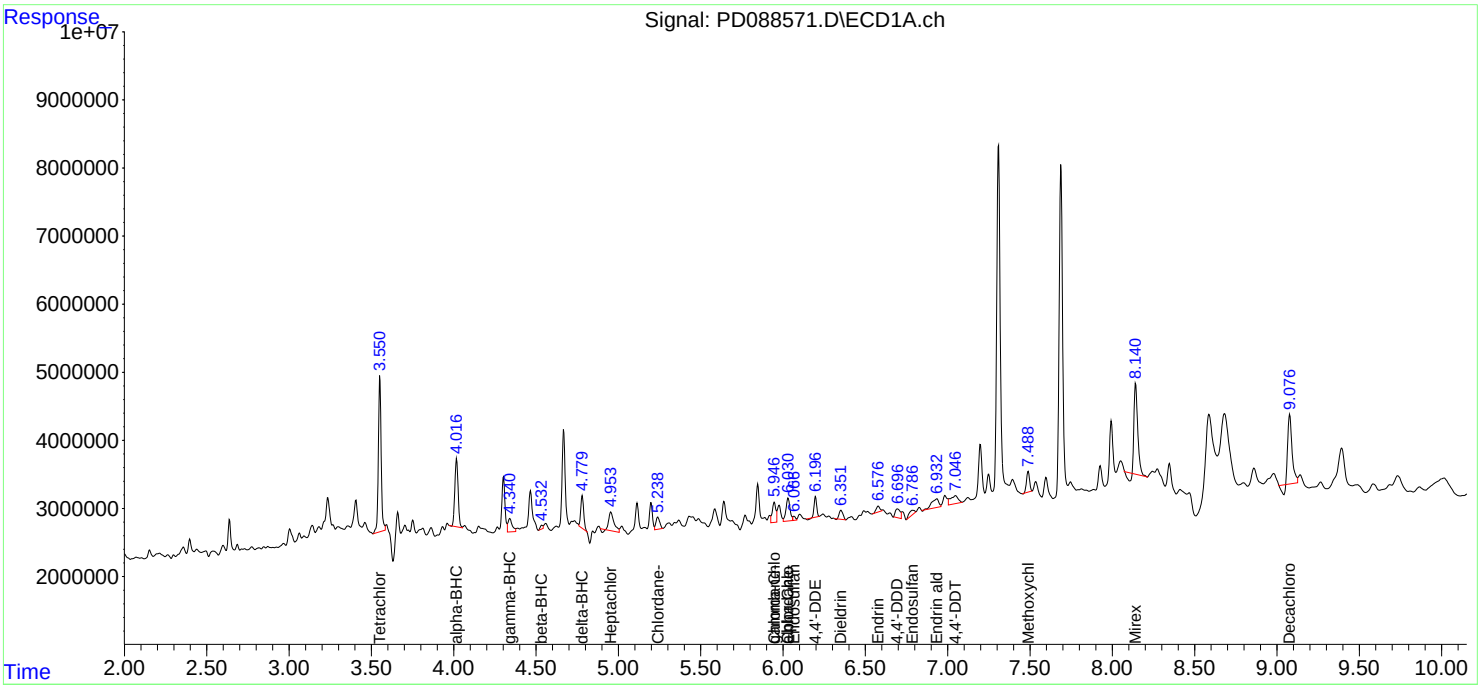
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

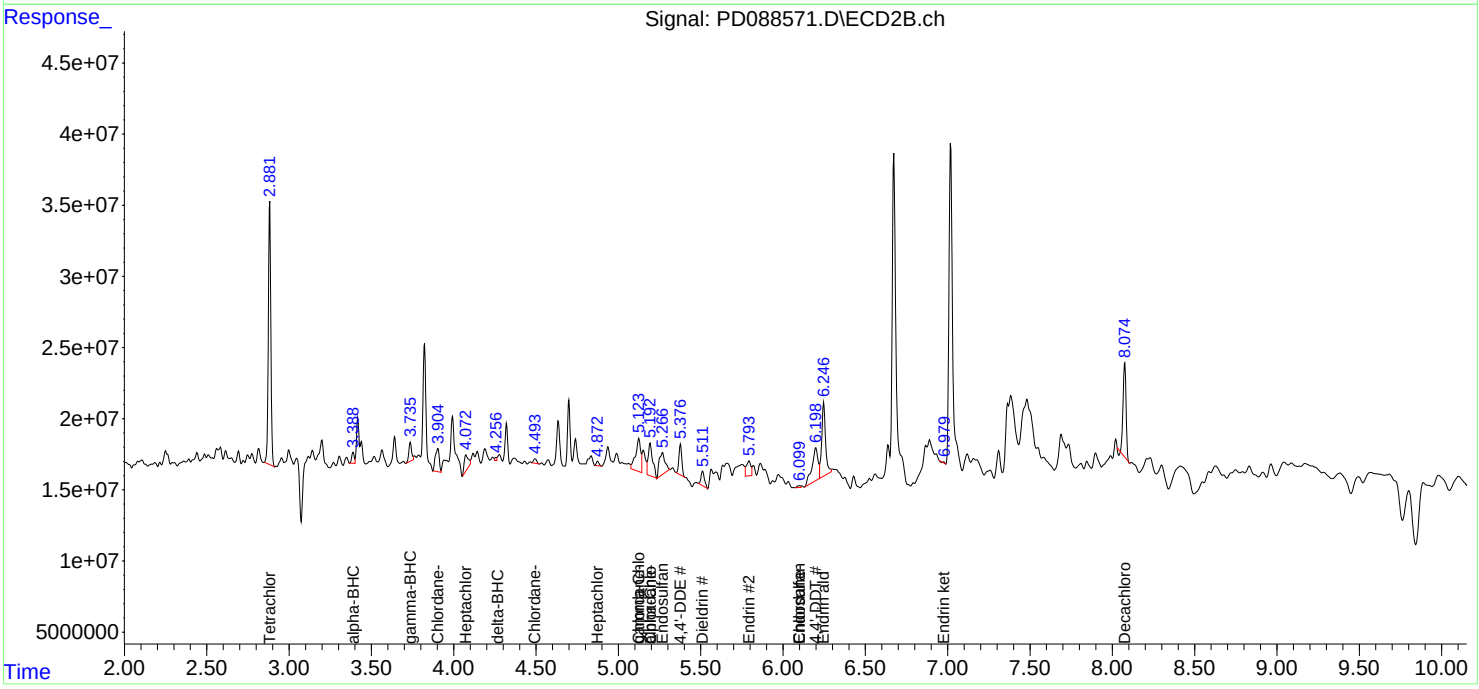
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088571.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 18:35
Operator : AR\AJ
Sample : Q1984-15
Misc :
ALS Vial : 18 Sample Multiplier: 1

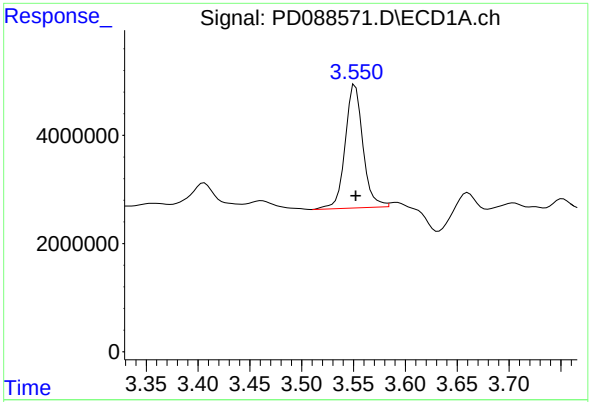
Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:21:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



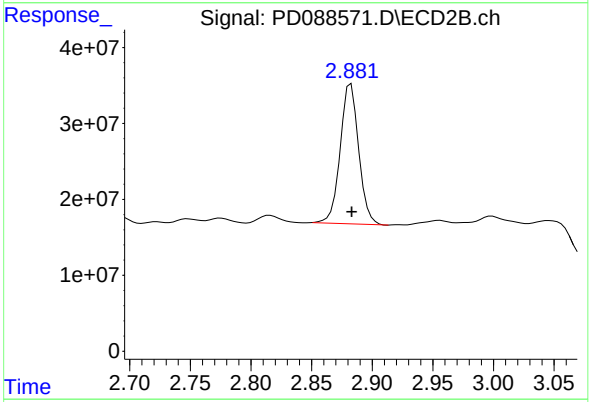




#1 Tetrachloro-m-xylene

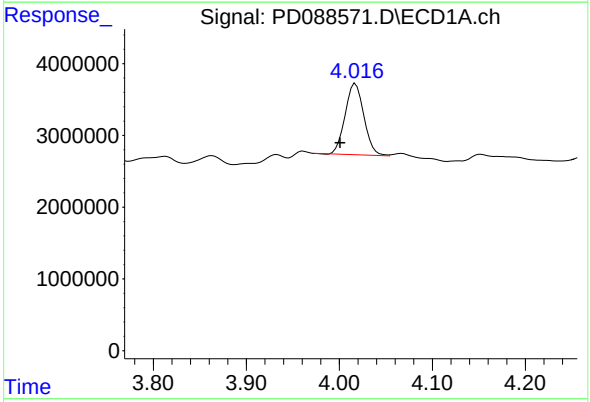
R.T.: 3.552 min
Delta R.T.: 0.000 min
Response: 27159112
Conc: 13.60 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725



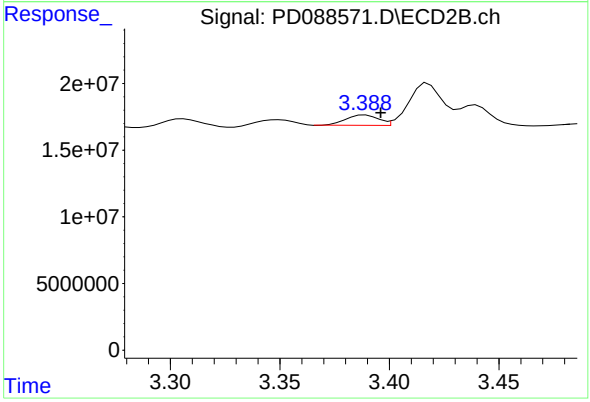
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 195373605
Conc: 13.36 ng/ml



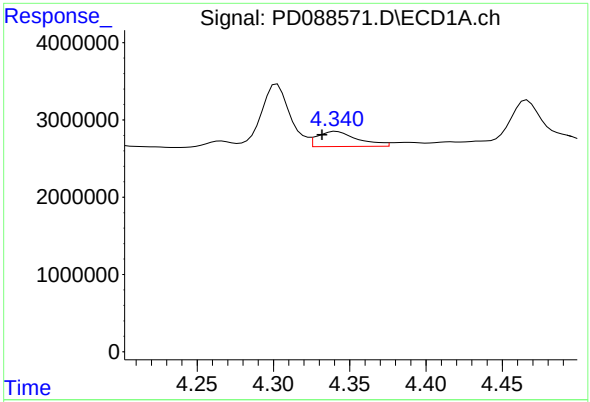
#2 alpha-BHC

R.T.: 4.017 min
Delta R.T.: 0.016 min
Response: 13876012
Conc: 3.22 ng/ml



#2 alpha-BHC

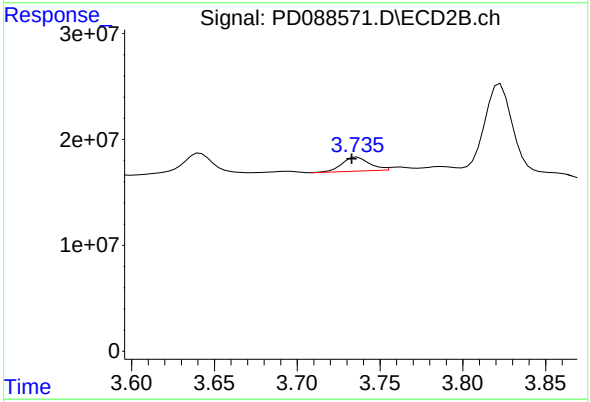
R.T.: 3.389 min
Delta R.T.: -0.007 min
Response: 7973644
Conc: 0.35 ng/ml



#3 gamma-BHC (Lindane)

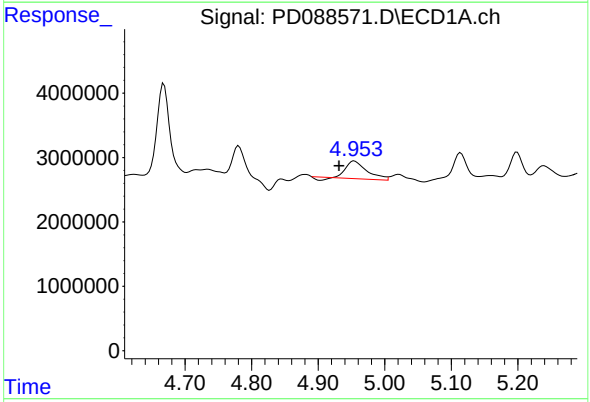
R.T.: 4.341 min
Delta R.T.: 0.009 min
Response: 3553320
Conc: 0.85 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725



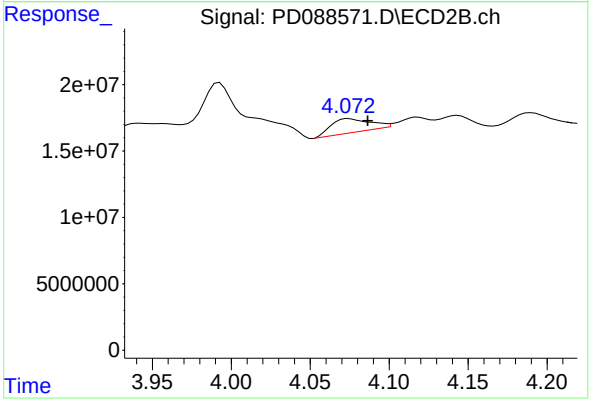
#3 gamma-BHC (Lindane)

R.T.: 3.736 min
Delta R.T.: 0.003 min
Response: 15096485
Conc: 0.70 ng/ml



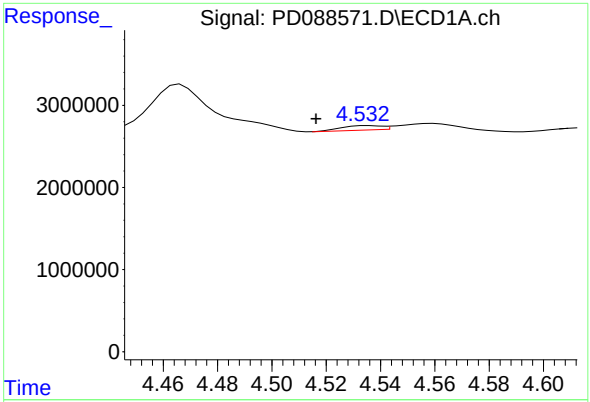
#4 Heptachlor

R.T.: 4.954 min
Delta R.T.: 0.023 min
Response: 5614981
Conc: 1.39 ng/ml



#4 Heptachlor

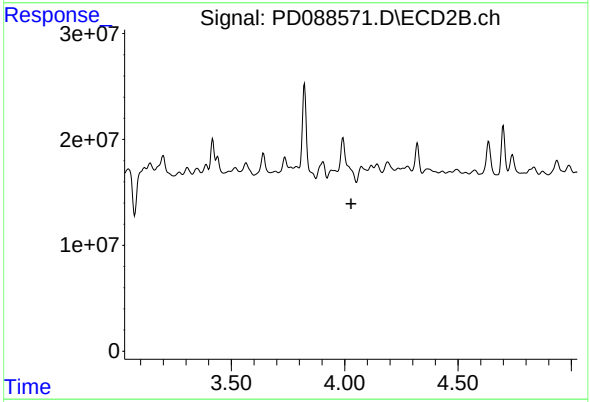
R.T.: 4.074 min
Delta R.T.: -0.012 min
Response: 18043146
Conc: 0.84 ng/ml



#6 beta-BHC

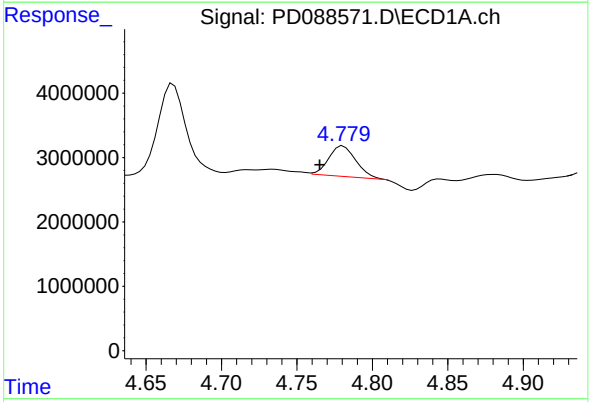
R.T.: 4.536 min
Delta R.T.: 0.019 min
Response: 554439
Conc: 0.34 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725



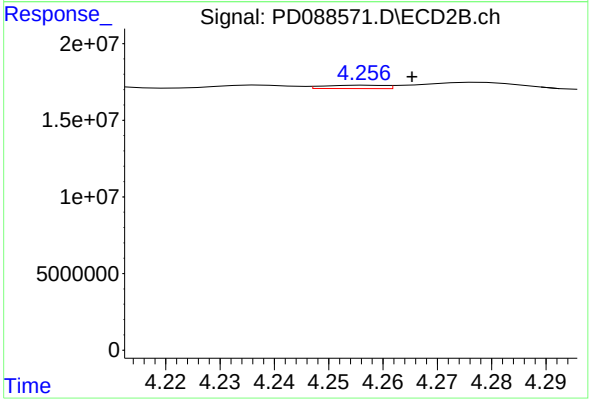
#6 beta-BHC

R.T.: 0.000 min
Exp R.T. : 4.028 min
Response: 0
Conc: N.D.



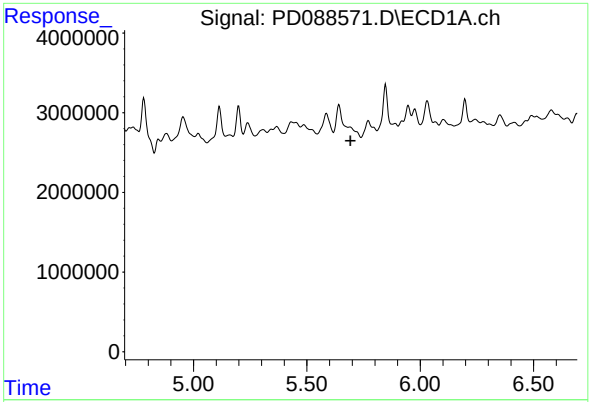
#7 delta-BHC

R.T.: 4.781 min
Delta R.T.: 0.015 min
Response: 5544429
Conc: 1.34 ng/ml



#7 delta-BHC

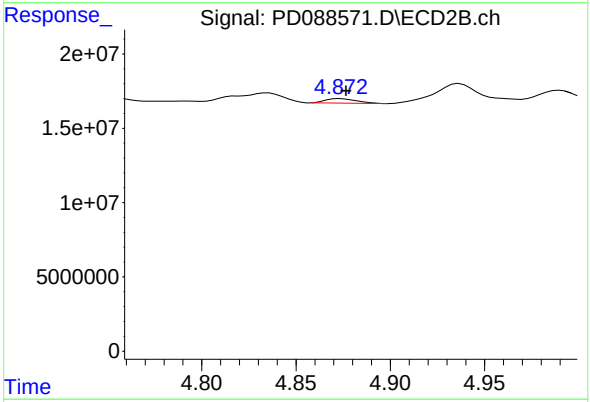
R.T.: 4.257 min
Delta R.T.: -0.008 min
Response: 1706045
Conc: 0.08 ng/ml



#8 Heptachlor epoxide

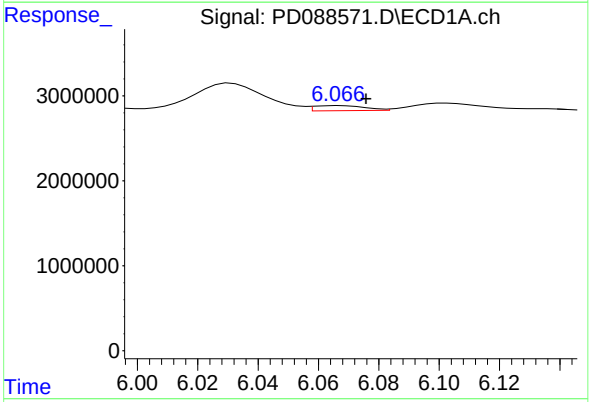
R.T.: 0.000 min
Exp R.T. : 5.692 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725



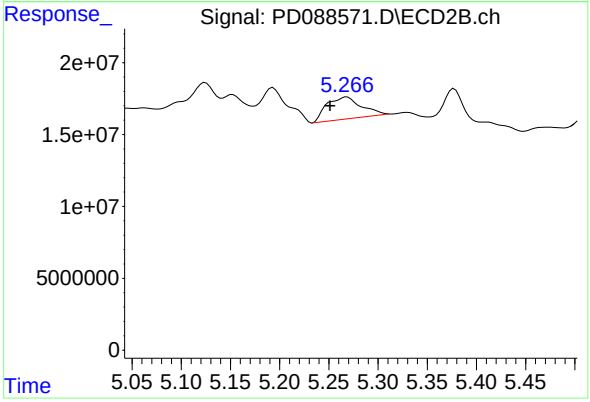
#8 Heptachlor epoxide

R.T.: 4.874 min
Delta R.T.: -0.003 min
Response: 3505234
Conc: 0.19 ng/ml



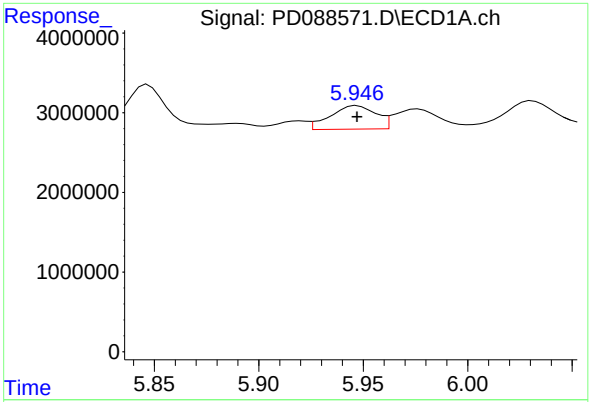
#9 Endosulfan I

R.T.: 6.067 min
Delta R.T.: -0.009 min
Response: 698919
Conc: 0.21 ng/ml



#9 Endosulfan I

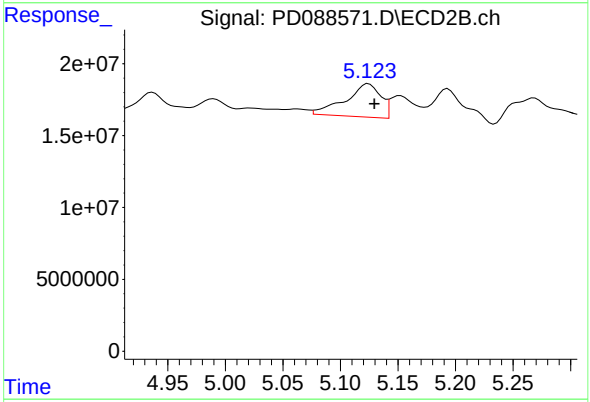
R.T.: 5.268 min
Delta R.T.: 0.017 min
Response: 36752241
Conc: 2.04 ng/ml



#10 gamma-Chlordane

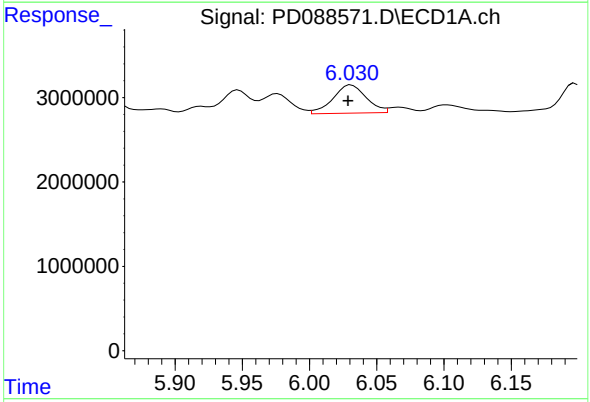
R.T.: 5.947 min
Delta R.T.: 0.000 min
Response: 4472895
Conc: 1.23 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725



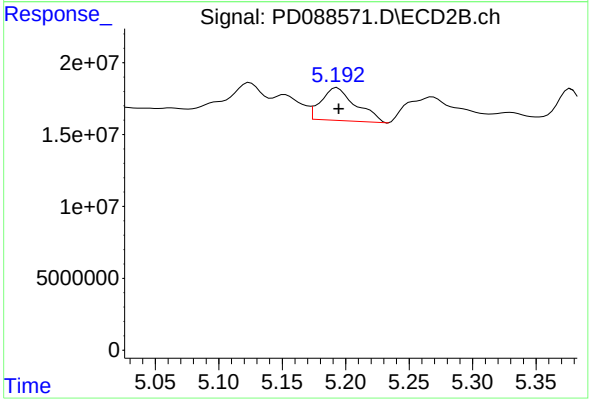
#10 gamma-Chlordane

R.T.: 5.125 min
Delta R.T.: -0.005 min
Response: 49395338
Conc: 2.43 ng/ml



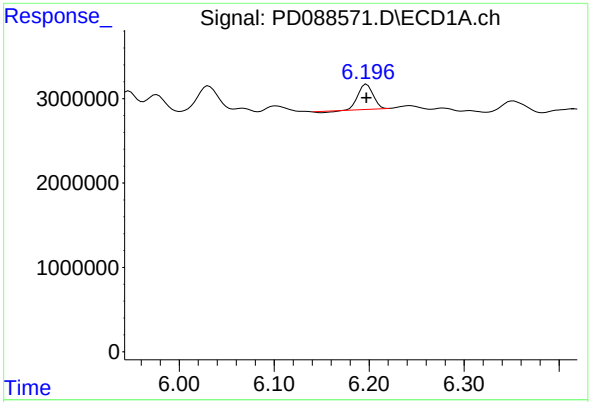
#11 alpha-Chlordane

R.T.: 6.031 min
Delta R.T.: 0.002 min
Response: 5744097
Conc: 1.59 ng/ml



#11 alpha-Chlordane

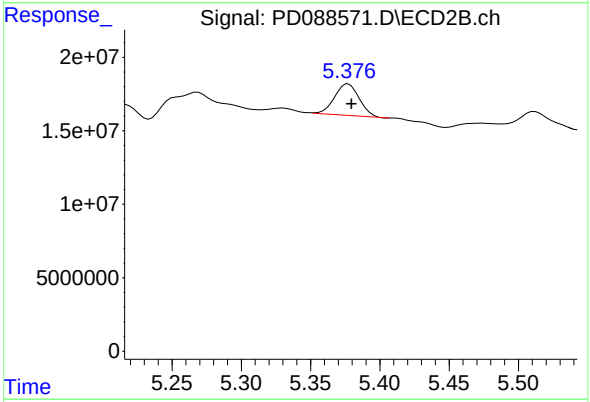
R.T.: 5.193 min
Delta R.T.: -0.001 min
Response: 43469189
Conc: 2.22 ng/ml



#12 4,4'-DDE

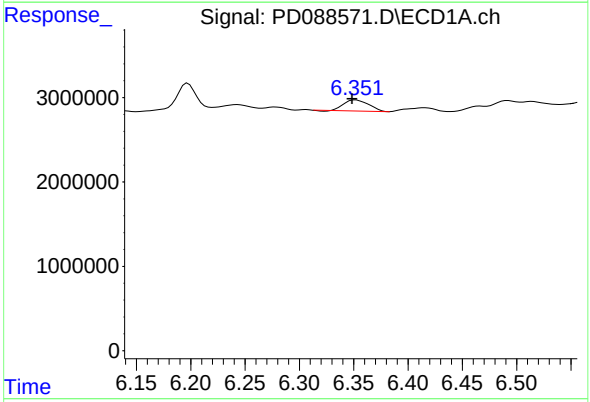
R.T.: 6.197 min
Delta R.T.: 0.000 min
Response: 3125563
Conc: 0.95 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725



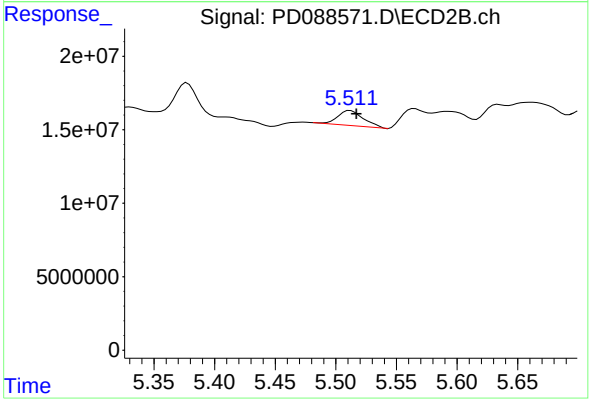
#12 4,4'-DDE

R.T.: 5.377 min
Delta R.T.: -0.002 min
Response: 26575589
Conc: 1.35 ng/ml



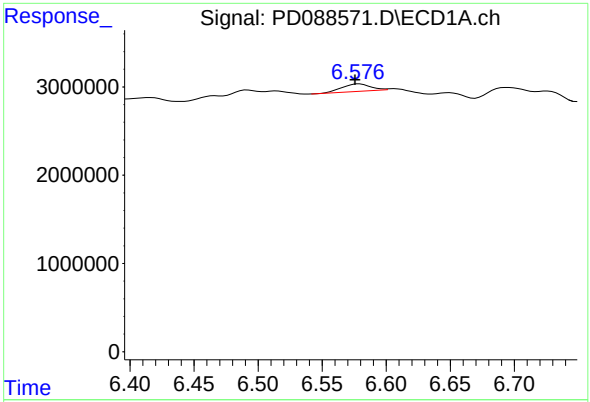
#13 Dieldrin

R.T.: 6.352 min
Delta R.T.: 0.003 min
Response: 2084386
Conc: 0.58 ng/ml



#13 Dieldrin

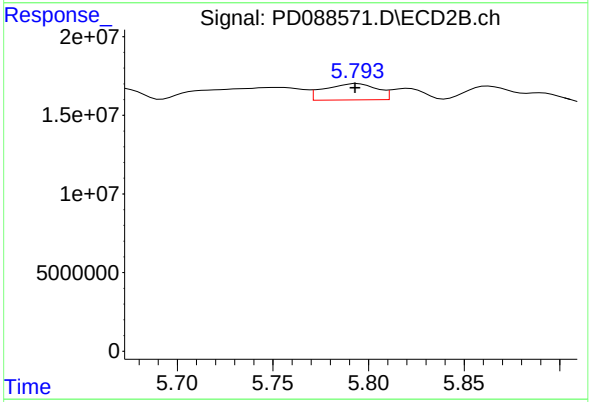
R.T.: 5.512 min
Delta R.T.: -0.005 min
Response: 15029827
Conc: 0.75 ng/ml



#14 Endrin

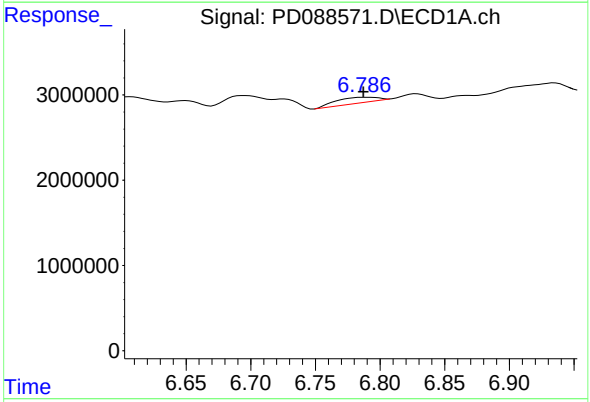
R.T.: 6.579 min
Delta R.T.: 0.003 min
Response: 1319054
Conc: 0.44 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725



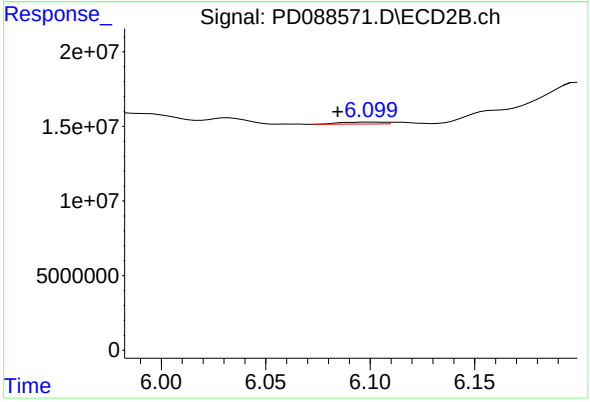
#14 Endrin

R.T.: 5.794 min
Delta R.T.: 0.001 min
Response: 19673307
Conc: 1.08 ng/ml



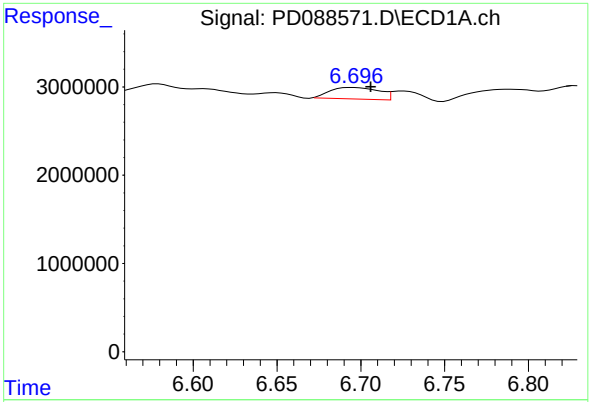
#15 Endosulfan II

R.T.: 6.787 min
Delta R.T.: 0.000 min
Response: 1484288
Conc: 0.47 ng/ml



#15 Endosulfan II

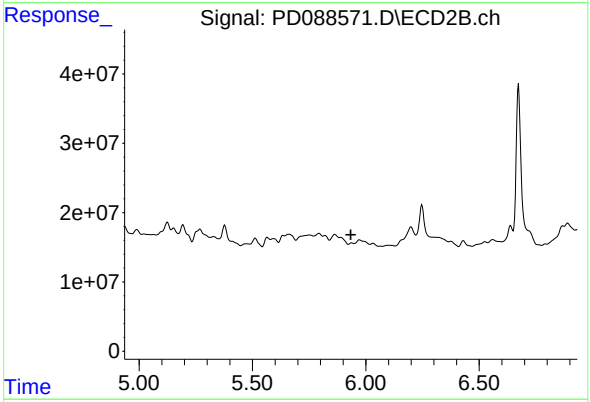
R.T.: 6.102 min
Delta R.T.: 0.017 min
Response: 1821877
Conc: 0.10 ng/ml



#16 4,4'-DDD

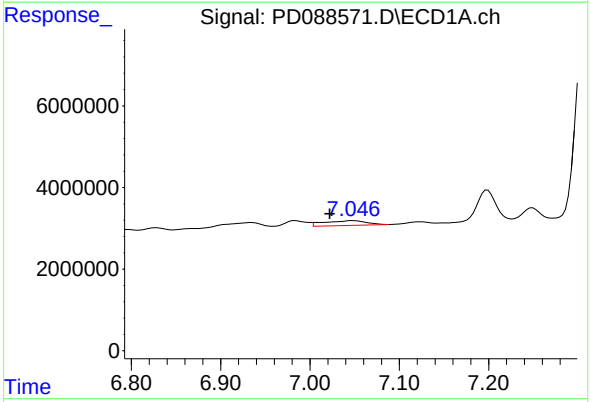
R.T.: 6.695 min
Delta R.T.: -0.011 min
Response: 2631727
Conc: 1.05 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725



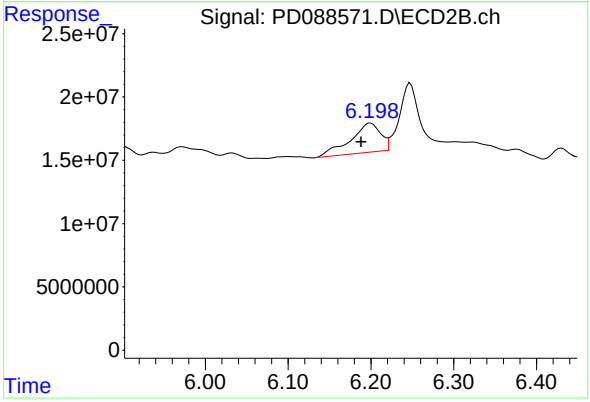
#16 4,4'-DDD

R.T.: 5.938 min
Delta R.T.: 0.004 min
Response: -4754593
Conc: N.D.



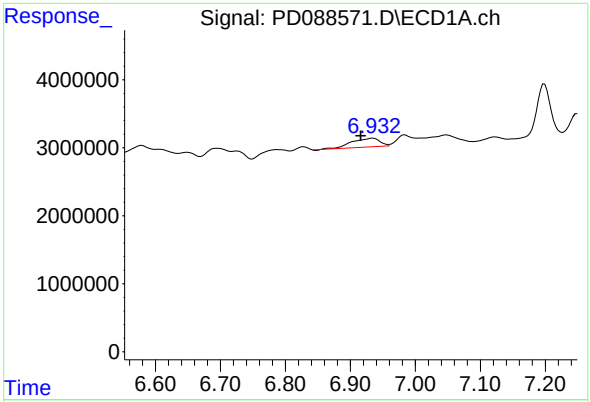
#17 4,4'-DDT

R.T.: 7.048 min
Delta R.T.: 0.026 min
Response: 3915159
Conc: 1.41 ng/ml



#17 4,4'-DDT

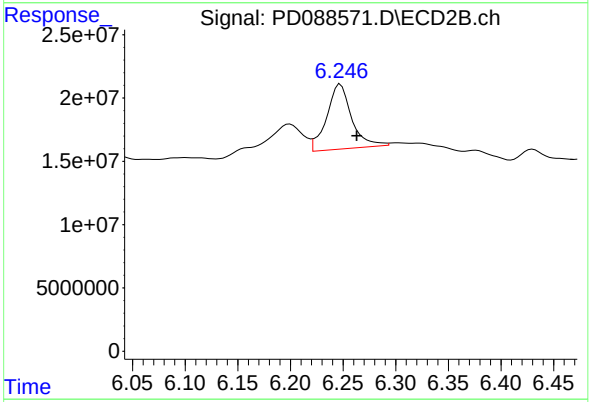
R.T.: 6.199 min
Delta R.T.: 0.011 min
Response: 58229693
Conc: 3.42 ng/ml



#18 Endrin aldehyde

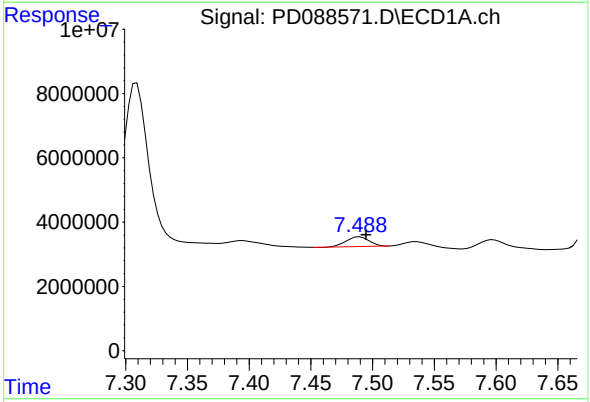
R.T.: 6.935 min
Delta R.T.: 0.019 min
Response: 3799896
Conc: 1.65 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725



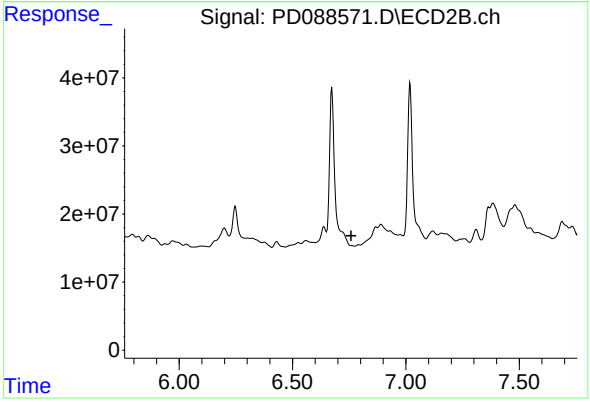
#18 Endrin aldehyde

R.T.: 6.247 min
Delta R.T.: -0.015 min
Response: 84136648
Conc: 6.33 ng/ml



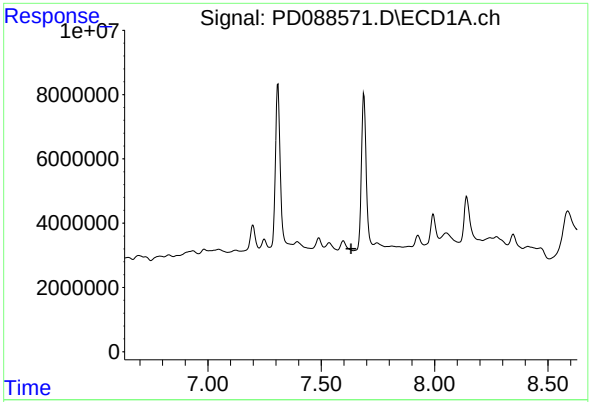
#20 Methoxychlor

R.T.: 7.489 min
Delta R.T.: -0.005 min
Response: 3882966
Conc: 2.59 ng/ml



#20 Methoxychlor

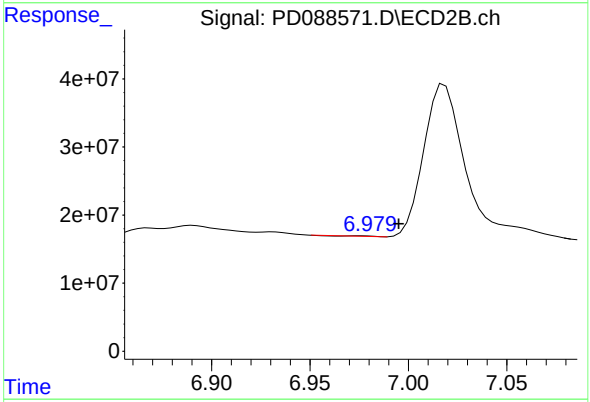
R.T.: 0.000 min
Exp R.T. : 6.759 min
Response: 0
Conc: N.D.



#21 Endrin ketone

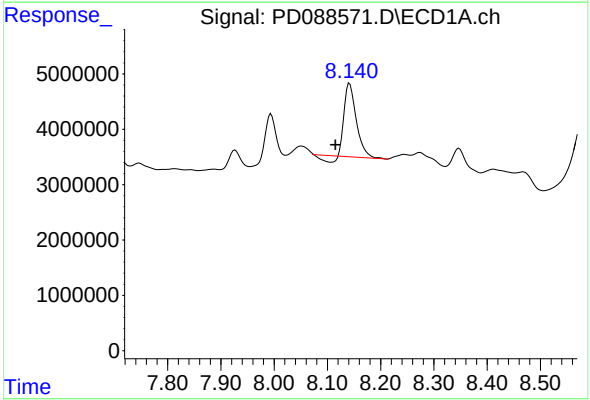
R.T.: 0.000 min
Exp R.T. : 7.631 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725



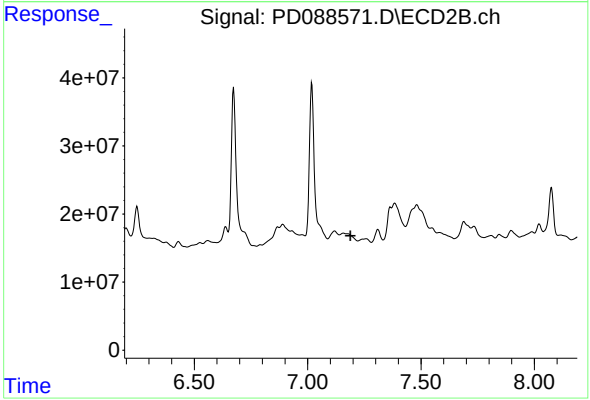
#21 Endrin ketone

R.T.: 6.976 min
Delta R.T.: -0.019 min
Response: 209079
Conc: 0.01 ng/ml



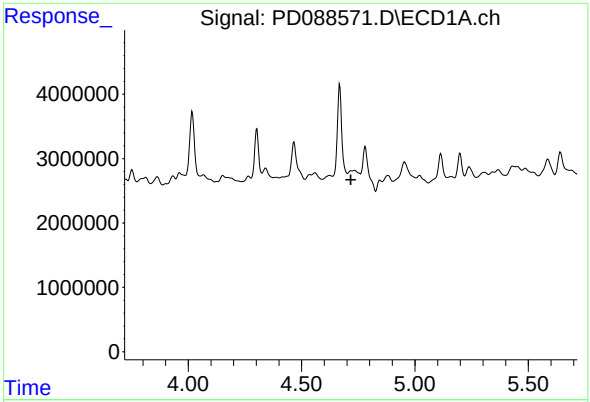
#22 Mirex

R.T.: 8.142 min
Delta R.T.: 0.027 min
Response: 19709697
Conc: 8.39 ng/ml



#22 Mirex

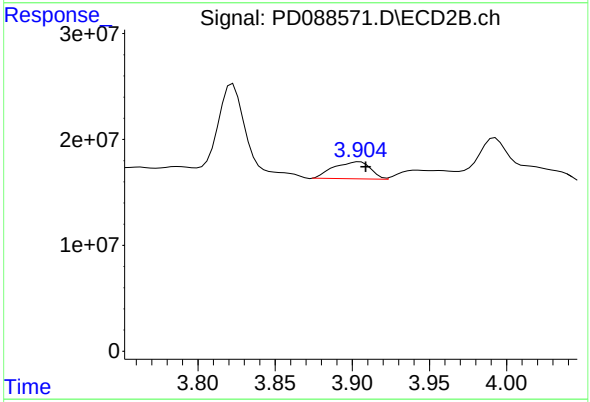
R.T.: 0.000 min
Exp R.T. : 7.190 min
Response: 0
Conc: N.D.



#23 Chlordane-1

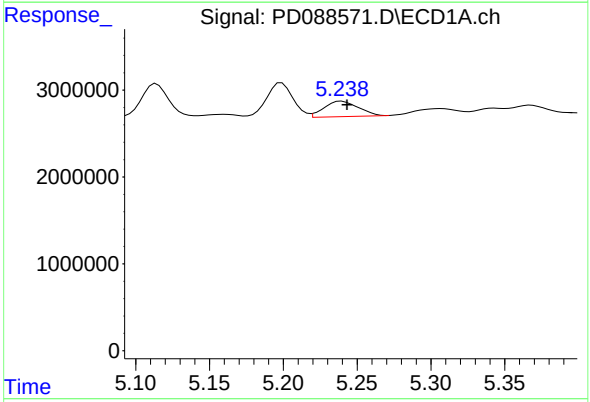
R.T.: 4.718 min
Delta R.T.: 0.000 min
Response: -2141612
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725



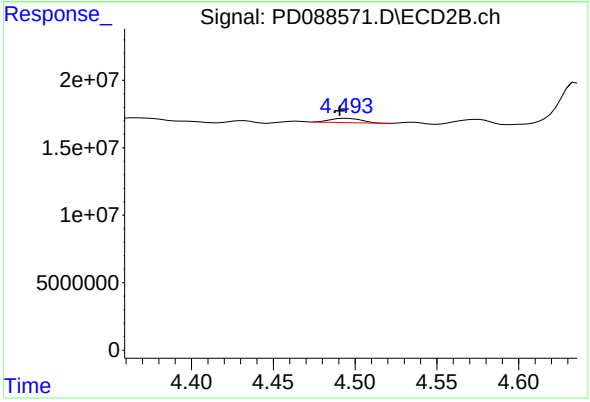
#23 Chlordane-1

R.T.: 3.905 min
Delta R.T.: -0.004 min
Response: 27002465
Conc: 33.68 ng/ml



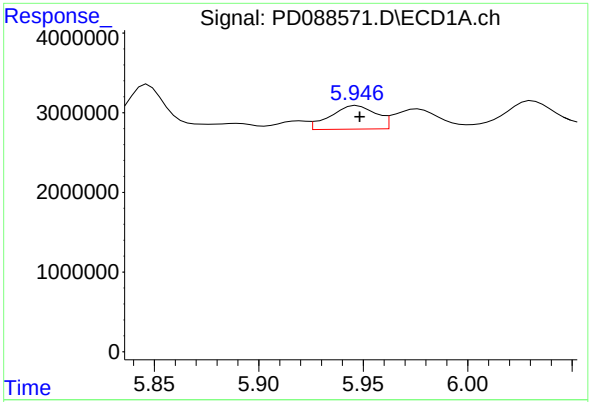
#24 Chlordane-2

R.T.: 5.239 min
Delta R.T.: -0.004 min
Response: 2872726
Conc: 17.25 ng/ml



#24 Chlordane-2

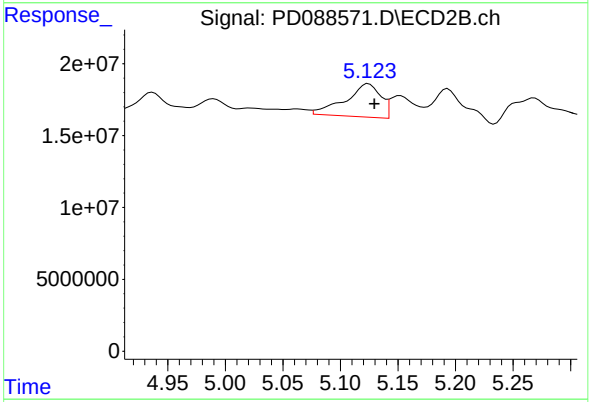
R.T.: 4.494 min
Delta R.T.: 0.004 min
Response: 4189103
Conc: 5.08 ng/ml



#25 Chlordane-3

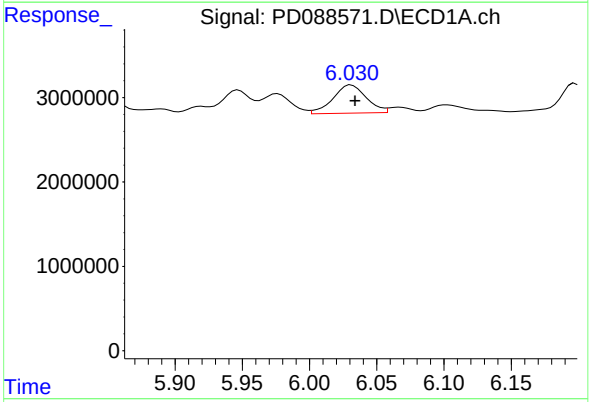
R.T.: 5.947 min
Delta R.T.: -0.001 min
Response: 4472895
Conc: 6.63 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725



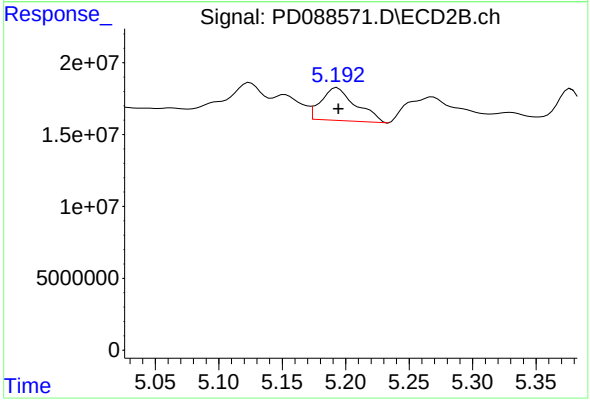
#25 Chlordane-3

R.T.: 5.125 min
Delta R.T.: -0.005 min
Response: 49395338
Conc: 19.53 ng/ml



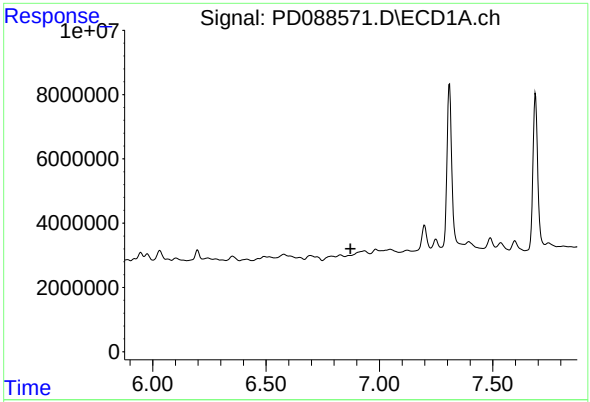
#26 Chlordane-4

R.T.: 6.031 min
Delta R.T.: -0.003 min
Response: 5744097
Conc: 7.05 ng/ml



#26 Chlordane-4

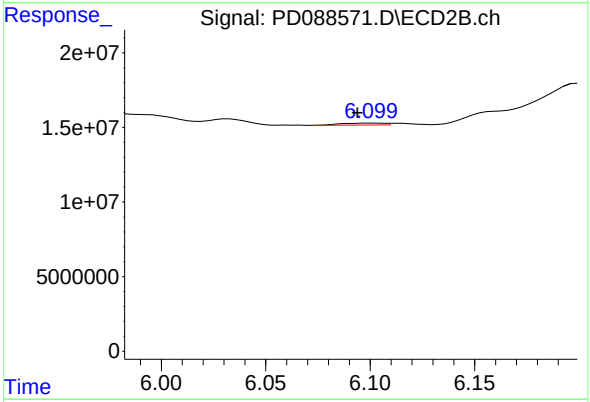
R.T.: 5.193 min
Delta R.T.: 0.000 min
Response: 43469189
Conc: 20.33 ng/ml



#27 Chlordane-5

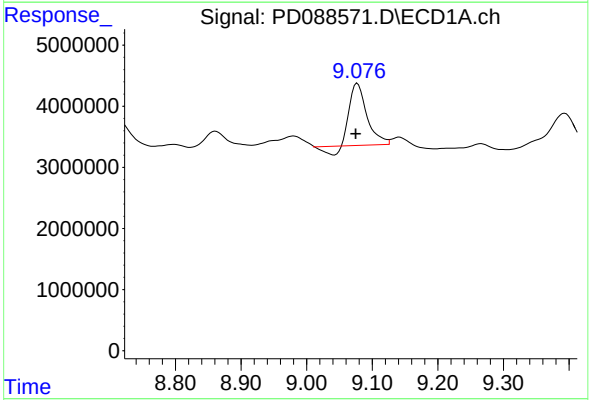
R.T.: 0.000 min
Exp R.T. : 6.873 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725



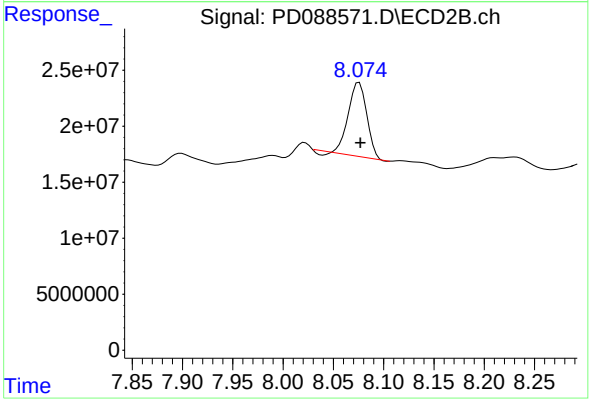
#27 Chlordane-5

R.T.: 6.102 min
Delta R.T.: 0.008 min
Response: 1821877
Conc: 1.89 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.077 min
Delta R.T.: 0.003 min
Response: 17180145
Conc: 5.19 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: -0.001 min
Response: 82701407
Conc: 4.48 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088572.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 18:49
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:21:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	System Monitoring Compounds							
1)	SA Tetrachlo...	3.552	2.883	40325884	278.9E6	20.189	19.077	
28)	SA Decachlor...	9.077	8.076	53381612	295.9E6	16.137	16.013	
	Target Compounds							
3)	MA gamma-BHC...	4.342	3.751f	213752	2301080	0.051	0.107	#
4)	MA Heptachlor	4.919	4.086	1109291	3053684	0.275	0.143	#
5)	MB Aldrin	5.263	4.367	386462	1443705	0.098	0.069	#
6)	B beta-BHC	0.000	4.046f	0	5091078	N.D.	0.550	#
7)	B delta-BHC	4.779	4.261	5303406	1261768	1.286	0.059	#
8)	B Heptachlo...	5.684	4.887	2695177	4172001	0.754	0.221	#
9)	A Endosulfan I	6.106f	5.231f	1697002	30628803	0.502	1.700	#
10)	B gamma-Chl...	5.930f	5.119	5151752	44211114	1.422	2.178	#
11)	B alpha-Chl...	5.999f	0.000	4946201	0	1.370	N.D.	#
13)	MA Dieldrin	0.000	5.511	0	1353837	N.D.	0.068	#
14)	MA Endrin	6.588	5.797	316687	42173632	0.106	2.317	#
15)	B Endosulfa...	6.774	6.103f	2720371	9065964	0.870	0.517	#
16)	A 4,4'-DDD	6.699	0.000	10706011	0	4.257	N.D.	#
17)	MA 4,4'-DDT	7.020	0.000	693850	0	0.250	N.D.	#
18)	B Endrin al...	0.000	6.242f	0	33724974	N.D.	2.536	#
20)	A Methoxychlor	7.495	0.000	78316	0	0.052	N.D.	#
22)	Mirex	0.000	7.206f	0	28203944	N.D.	1.903	#
23)	Chlordane-1	0.000	3.900	0	4046029	N.D.	5.047	#
24)	Chlordane-2	5.263	4.508	386462	150.5E6	2.321	182.315	#
25)	Chlordane-3	5.930	5.119	5151752	44211114	7.638	17.481	#
26)	Chlordane-4	0.000	5.231f	0	30628803	N.D.	14.325	#
27)	Chlordane-5	0.000	6.103	0	9065964	N.D.	9.390	#

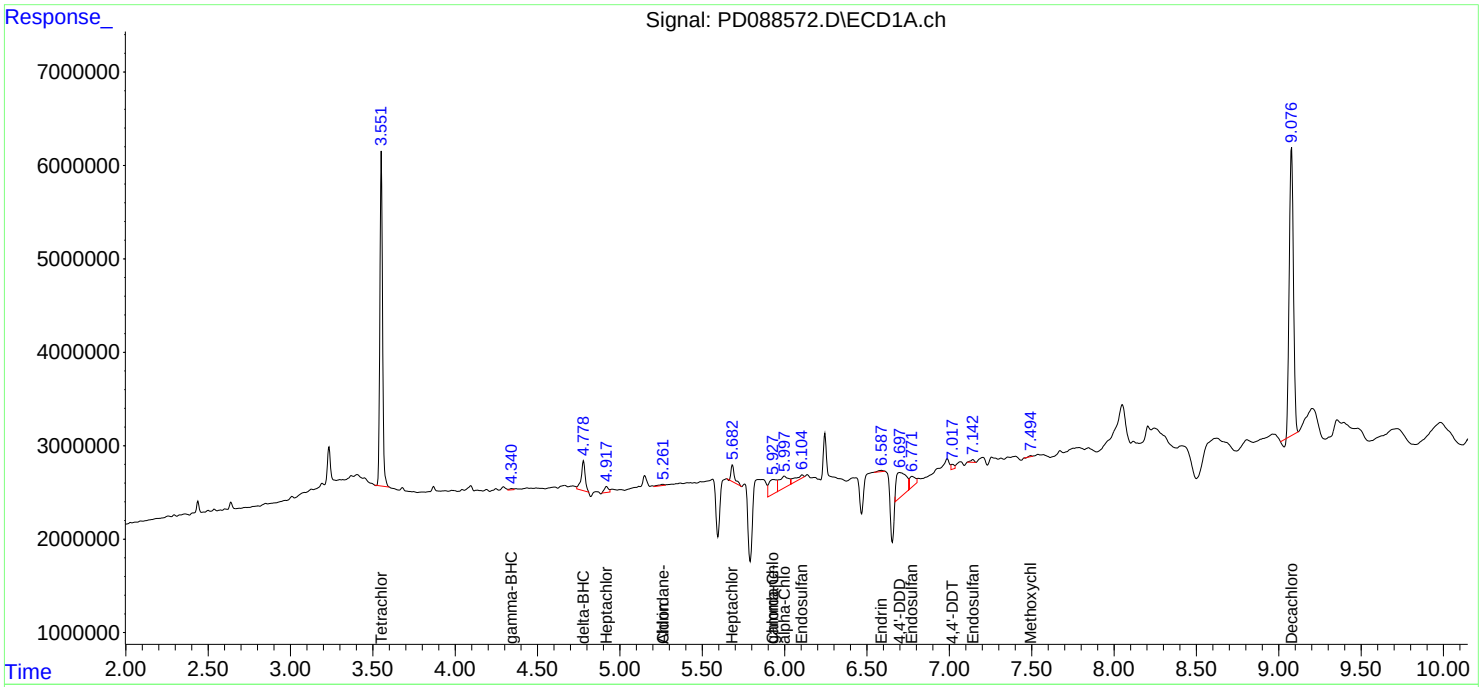
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

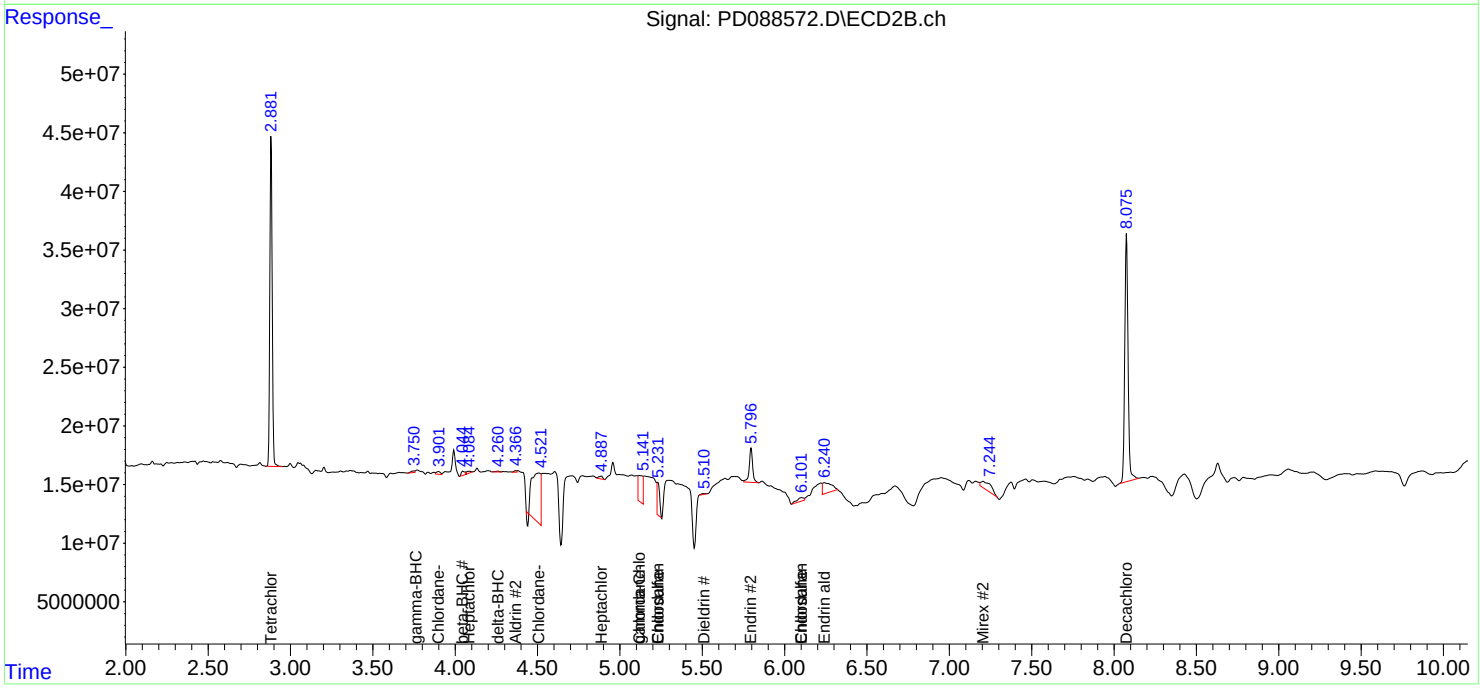
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088572.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 18:49
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

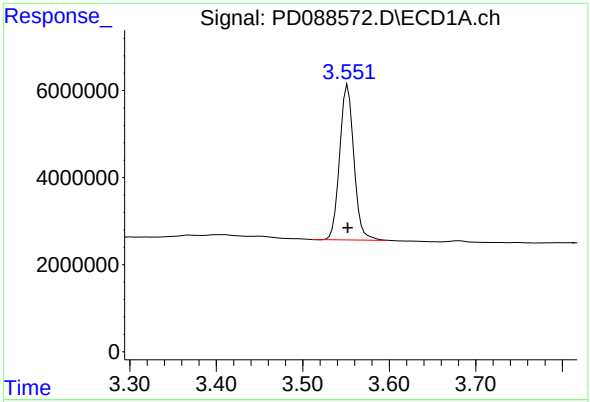
Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:21:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



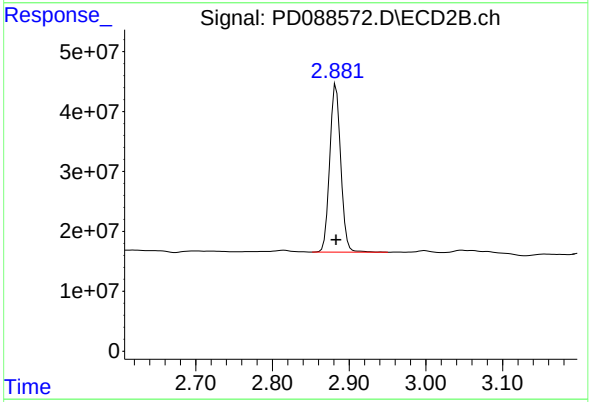




#1 Tetrachloro-m-xylene

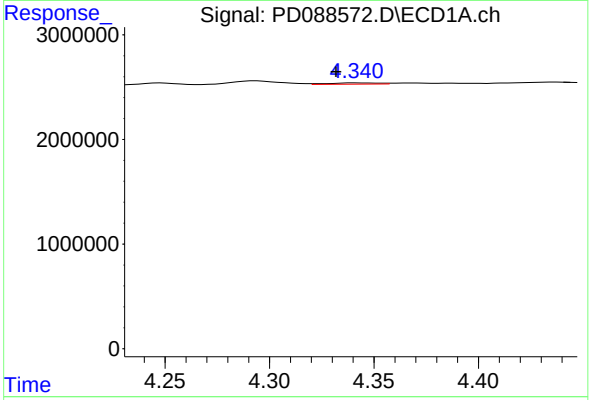
R.T.: 3.552 min
Delta R.T.: 0.000 min
Response: 40325884
Conc: 20.19 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



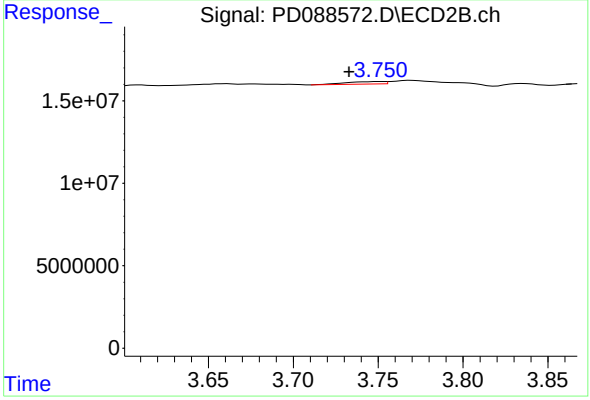
#1 Tetrachloro-m-xylene

R.T.: 2.883 min
Delta R.T.: 0.000 min
Response: 278930849
Conc: 19.08 ng/ml



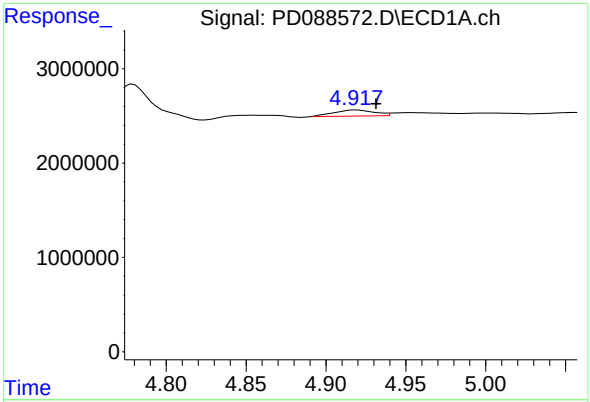
#3 gamma-BHC (Lindane)

R.T.: 4.342 min
Delta R.T.: 0.010 min
Response: 213752
Conc: 0.05 ng/ml



#3 gamma-BHC (Lindane)

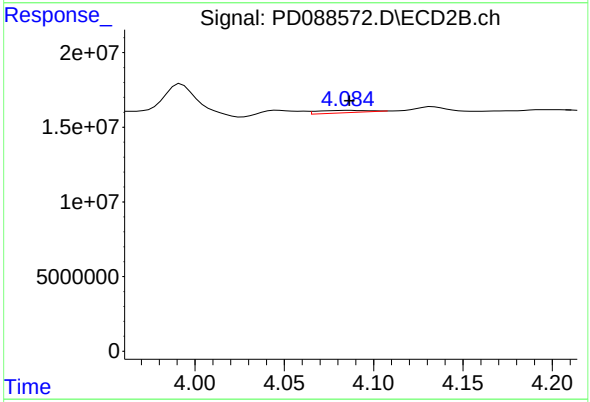
R.T.: 3.751 min
Delta R.T.: 0.019 min
Response: 2301080
Conc: 0.11 ng/ml



#4 Heptachlor

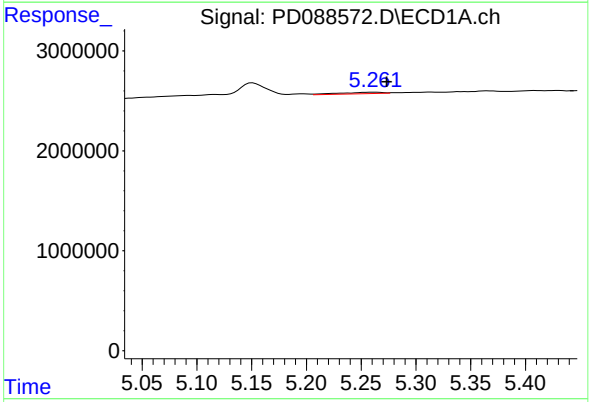
R.T.: 4.919 min
Delta R.T.: -0.012 min
Response: 1109291
Conc: 0.27 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



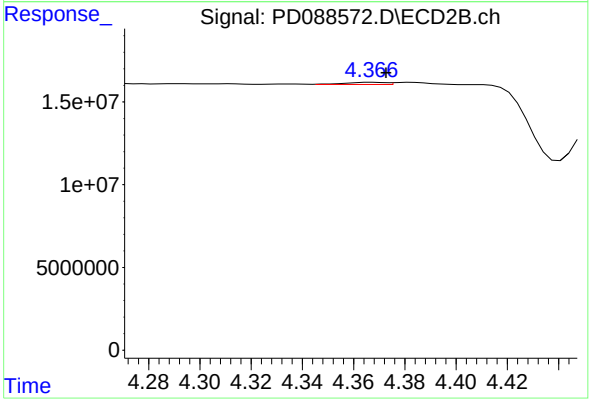
#4 Heptachlor

R.T.: 4.086 min
Delta R.T.: 0.000 min
Response: 3053684
Conc: 0.14 ng/ml



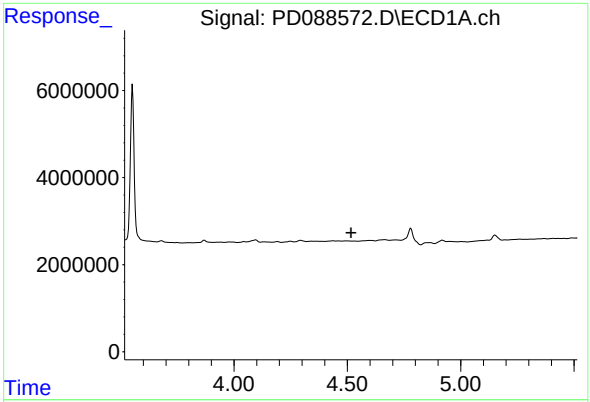
#5 Aldrin

R.T.: 5.263 min
Delta R.T.: -0.011 min
Response: 386462
Conc: 0.10 ng/ml



#5 Aldrin

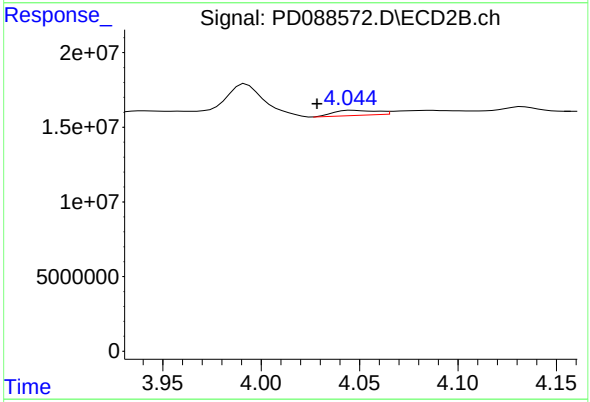
R.T.: 4.367 min
Delta R.T.: -0.005 min
Response: 1443705
Conc: 0.07 ng/ml



#6 beta-BHC

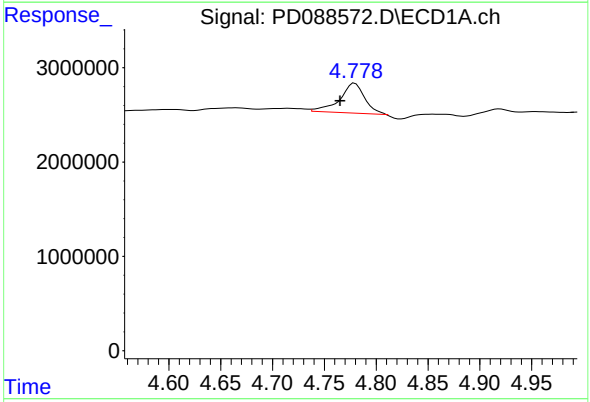
R.T.: 0.000 min
Exp R.T. : 4.516 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
I.BLK



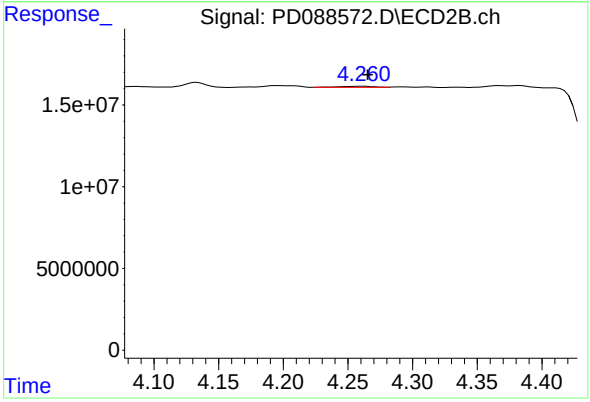
#6 beta-BHC

R.T.: 4.046 min
Delta R.T.: 0.018 min
Response: 5091078
Conc: 0.55 ng/ml



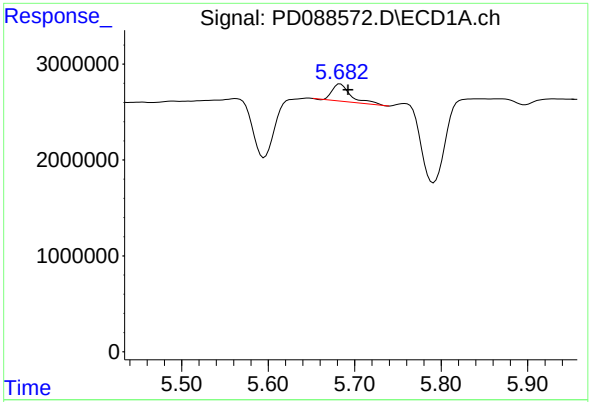
#7 delta-BHC

R.T.: 4.779 min
Delta R.T.: 0.014 min
Response: 5303406
Conc: 1.29 ng/ml



#7 delta-BHC

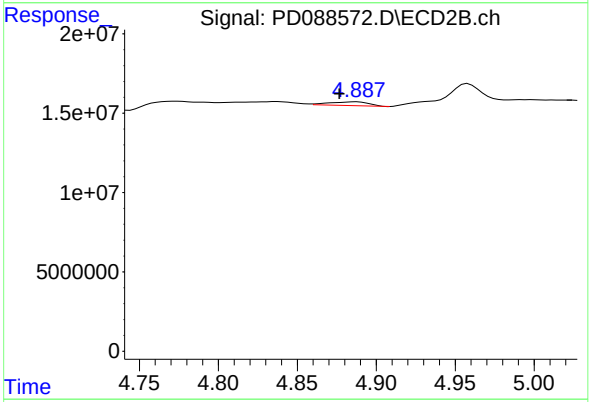
R.T.: 4.261 min
Delta R.T.: -0.004 min
Response: 1261768
Conc: 0.06 ng/ml



#8 Heptachlor epoxide

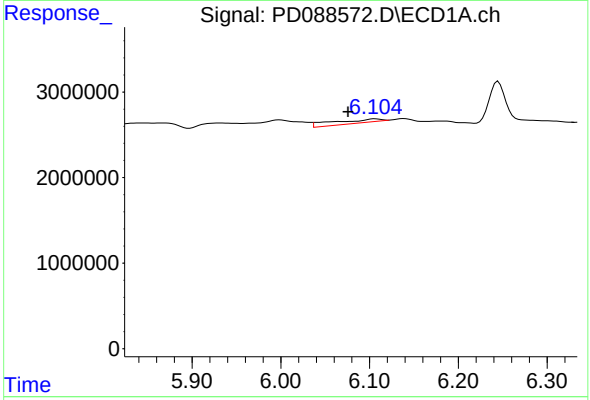
R.T.: 5.684 min
Delta R.T.: -0.009 min
Response: 2695177
Conc: 0.75 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



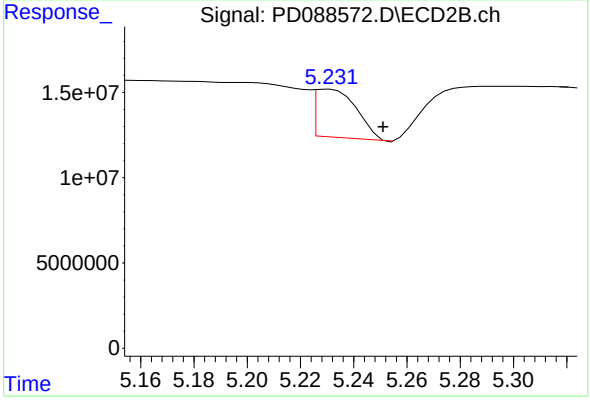
#8 Heptachlor epoxide

R.T.: 4.887 min
Delta R.T.: 0.011 min
Response: 4172001
Conc: 0.22 ng/ml



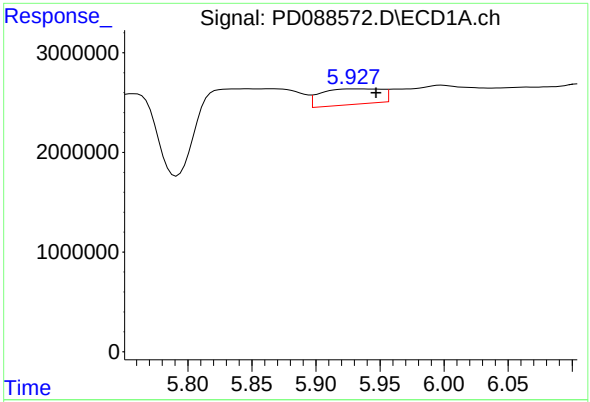
#9 Endosulfan I

R.T.: 6.106 min
Delta R.T.: 0.031 min
Response: 1697002
Conc: 0.50 ng/ml



#9 Endosulfan I

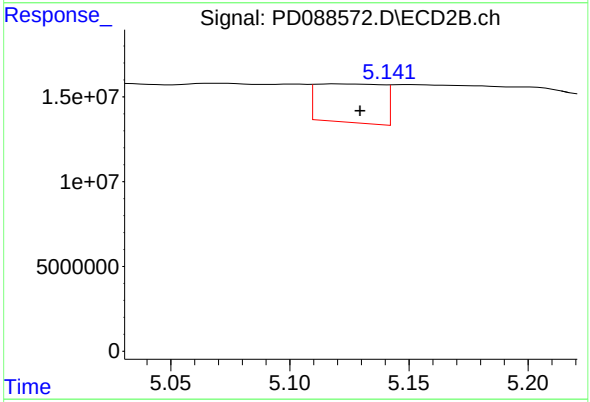
R.T.: 5.231 min
Delta R.T.: -0.020 min
Response: 30628803
Conc: 1.70 ng/ml



#10 gamma-Chlordane

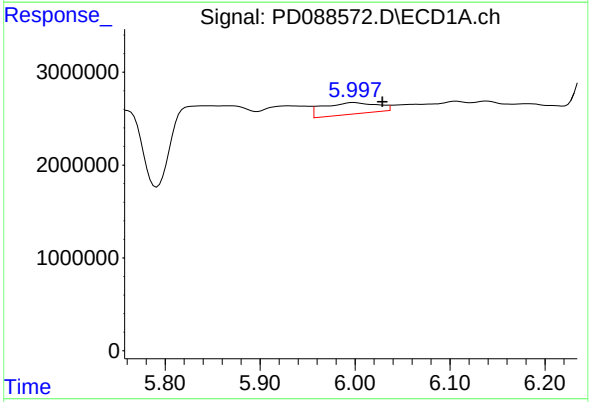
R.T.: 5.930 min
Delta R.T.: -0.017 min
Response: 5151752
Conc: 1.42 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



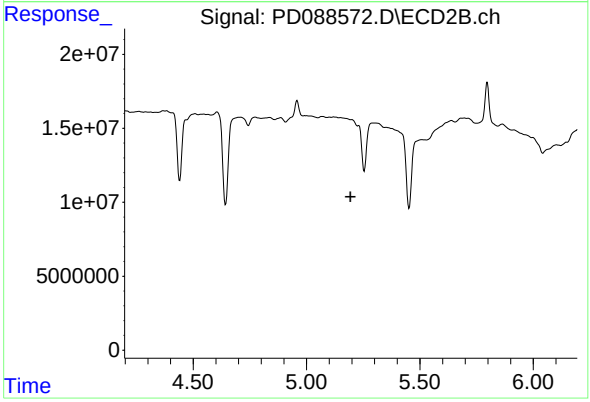
#10 gamma-Chlordane

R.T.: 5.119 min
Delta R.T.: -0.010 min
Response: 44211114
Conc: 2.18 ng/ml



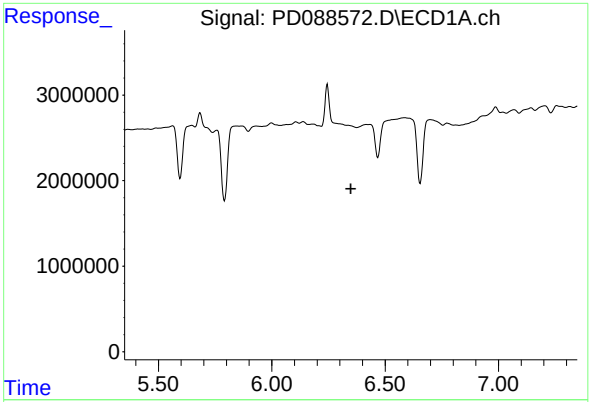
#11 alpha-Chlordane

R.T.: 5.999 min
Delta R.T.: -0.030 min
Response: 4946201
Conc: 1.37 ng/ml



#11 alpha-Chlordane

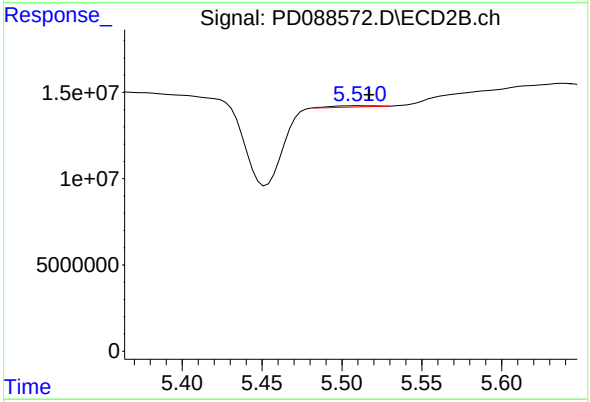
R.T.: 0.000 min
Exp R.T. : 5.194 min
Response: 0
Conc: N.D.



#13 Dieldrin

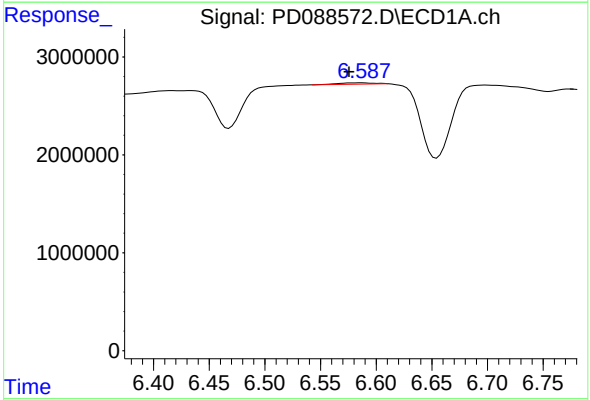
R.T.: 0.000 min
Exp R.T. : 6.349 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
I.BLK



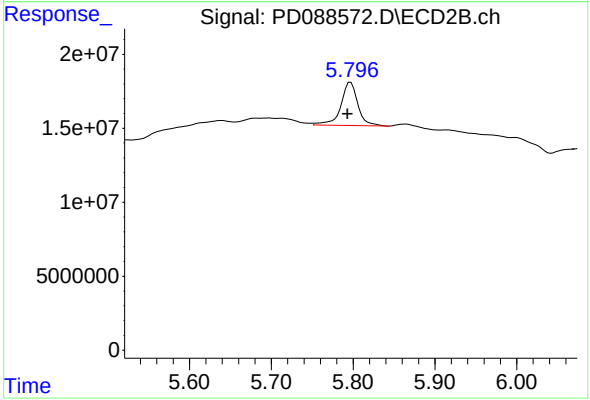
#13 Dieldrin

R.T.: 5.511 min
Delta R.T.: -0.006 min
Response: 1353837
Conc: 0.07 ng/ml



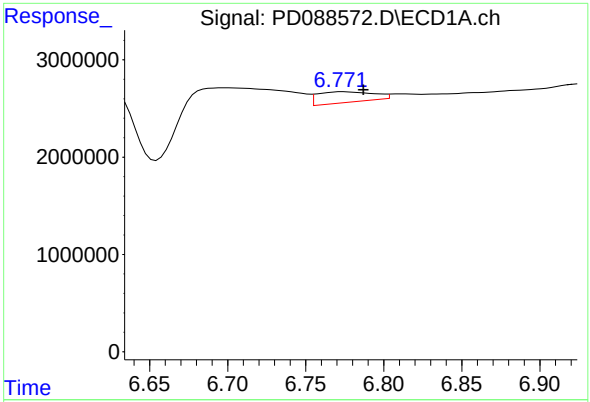
#14 Endrin

R.T.: 6.588 min
Delta R.T.: 0.012 min
Response: 316687
Conc: 0.11 ng/ml



#14 Endrin

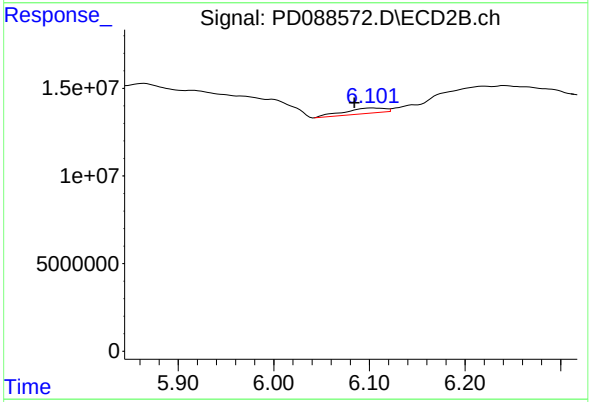
R.T.: 5.797 min
Delta R.T.: 0.004 min
Response: 42173632
Conc: 2.32 ng/ml



#15 Endosulfan II

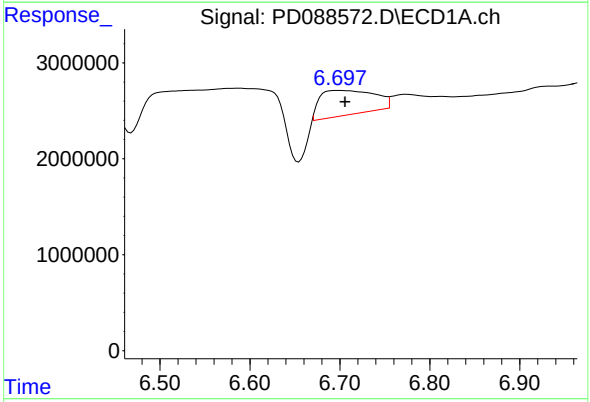
R.T.: 6.774 min
Delta R.T.: -0.013 min
Response: 2720371
Conc: 0.87 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



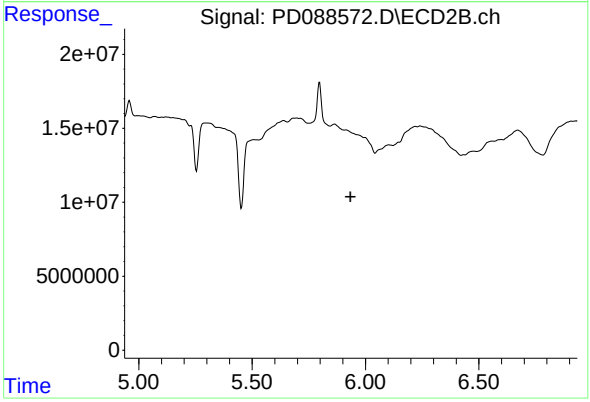
#15 Endosulfan II

R.T.: 6.103 min
Delta R.T.: 0.018 min
Response: 9065964
Conc: 0.52 ng/ml



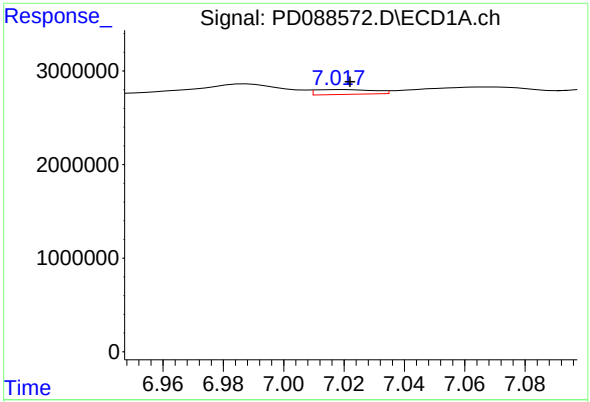
#16 4,4'-DDD

R.T.: 6.699 min
Delta R.T.: -0.007 min
Response: 10706011
Conc: 4.26 ng/ml



#16 4,4'-DDD

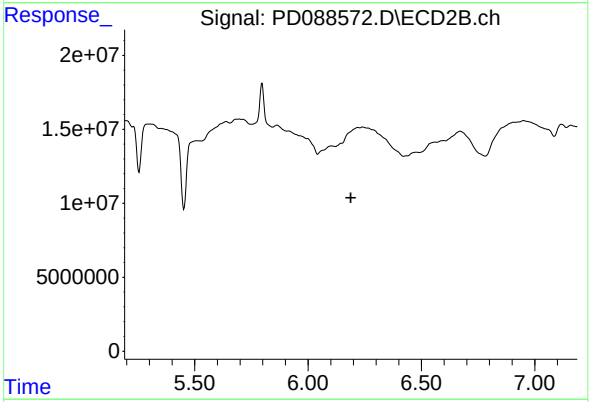
R.T.: 0.000 min
Exp R.T. : 5.934 min
Response: 0
Conc: N.D.



#17 4,4'-DDT

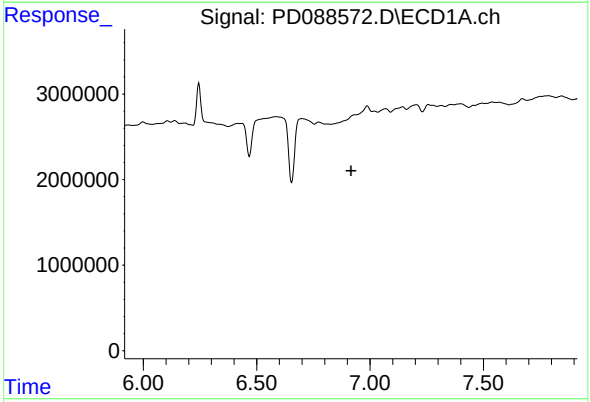
R.T.: 7.020 min
Delta R.T.: -0.002 min
Response: 693850
Conc: 0.25 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



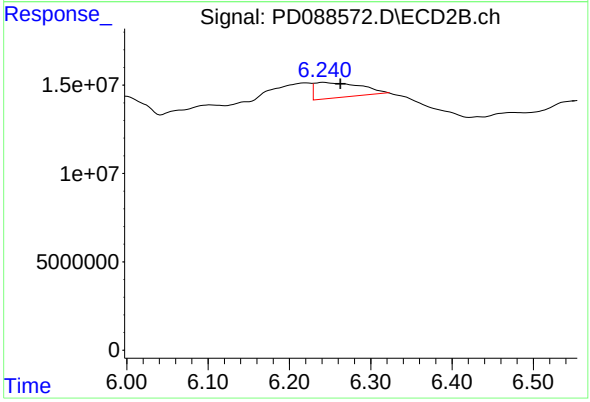
#17 4,4'-DDT

R.T.: 0.000 min
Exp R.T. : 6.188 min
Response: 0
Conc: N.D.



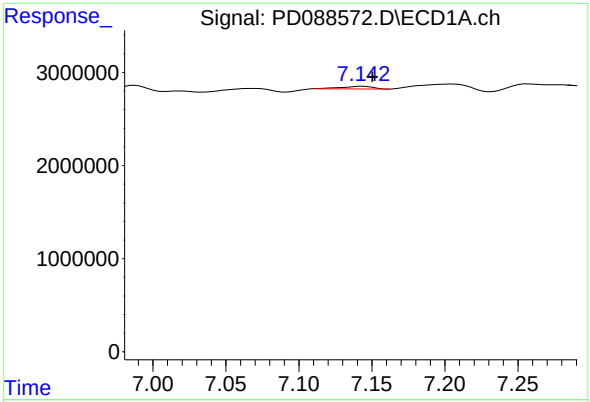
#18 Endrin aldehyde

R.T.: 0.000 min
Exp R.T. : 6.916 min
Response: 0
Conc: N.D.



#18 Endrin aldehyde

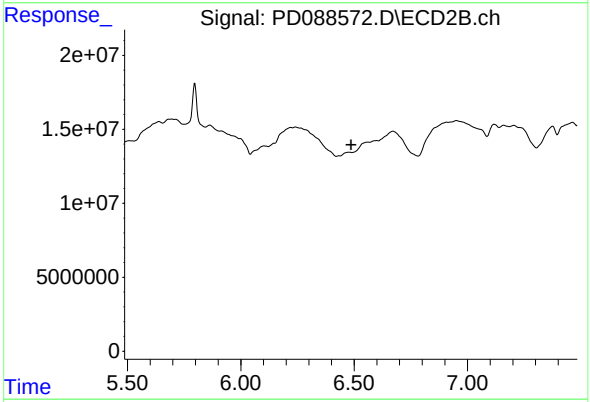
R.T.: 6.242 min
Delta R.T.: -0.021 min
Response: 33724974
Conc: 2.54 ng/ml



#19 Endosulfan Sulfate

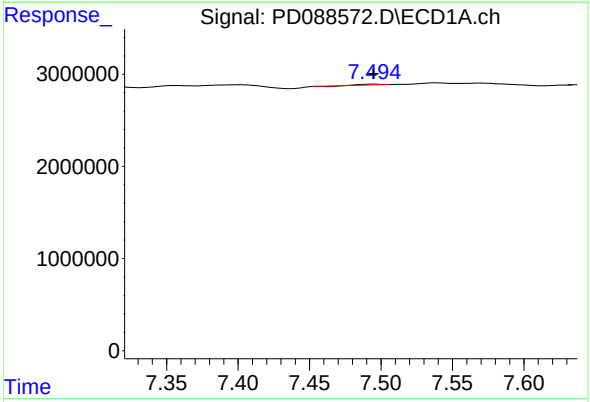
R.T.: 7.144 min
Delta R.T.: -0.007 min
Response: 428033
Conc: 0.15 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



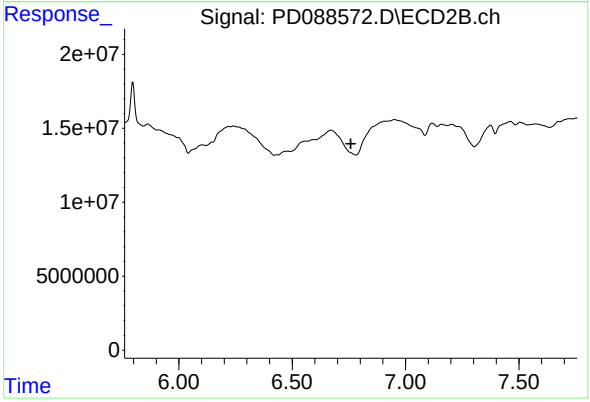
#19 Endosulfan Sulfate

R.T.: 6.473 min
Delta R.T.: -0.013 min
Response: -4062945
Conc: N.D.



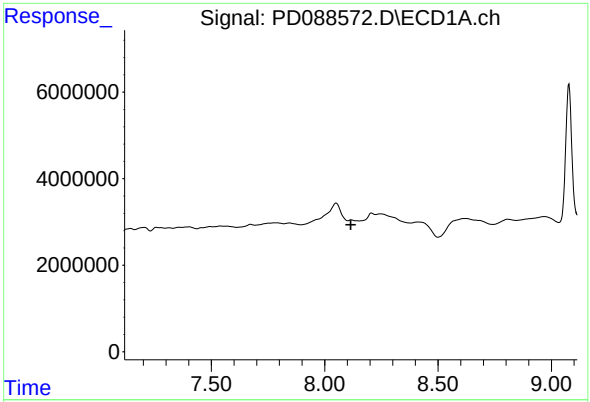
#20 Methoxychlor

R.T.: 7.495 min
Delta R.T.: 0.000 min
Response: 78316
Conc: 0.05 ng/ml



#20 Methoxychlor

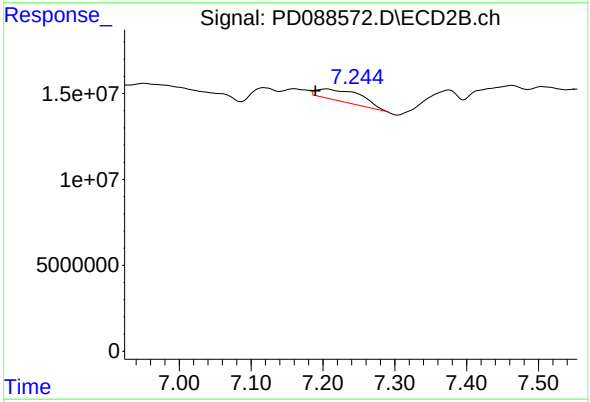
R.T.: 0.000 min
Exp R.T. : 6.759 min
Response: 0
Conc: N.D.



#22 Mirex

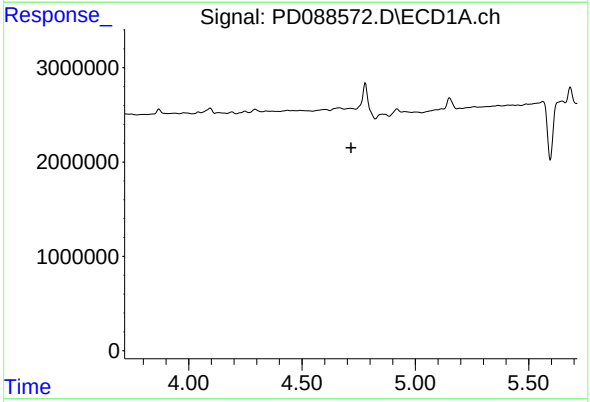
R.T.: 0.000 min
Exp R.T. : 8.115 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
I.BLK



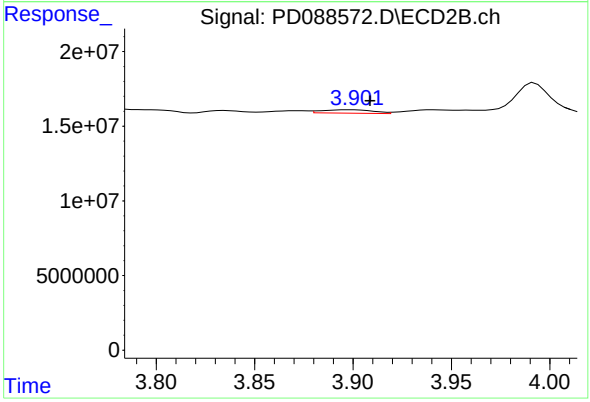
#22 Mirex

R.T.: 7.206 min
Delta R.T.: 0.017 min
Response: 28203944
Conc: 1.90 ng/ml



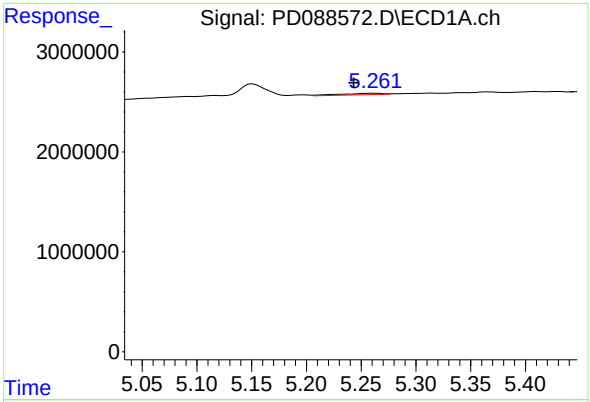
#23 Chlordane-1

R.T.: 0.000 min
Exp R.T. : 4.717 min
Response: 0
Conc: N.D.



#23 Chlordane-1

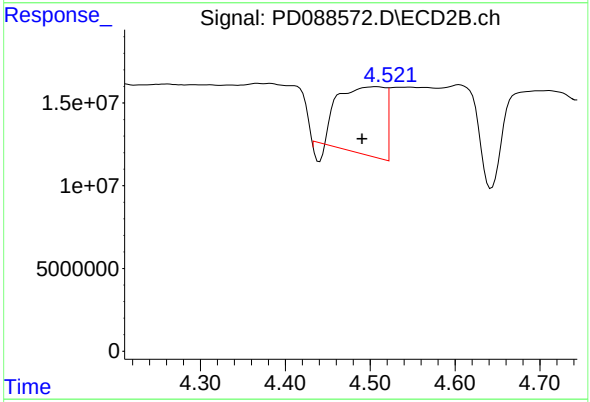
R.T.: 3.900 min
Delta R.T.: -0.009 min
Response: 4046029
Conc: 5.05 ng/ml



#24 Chlordane-2

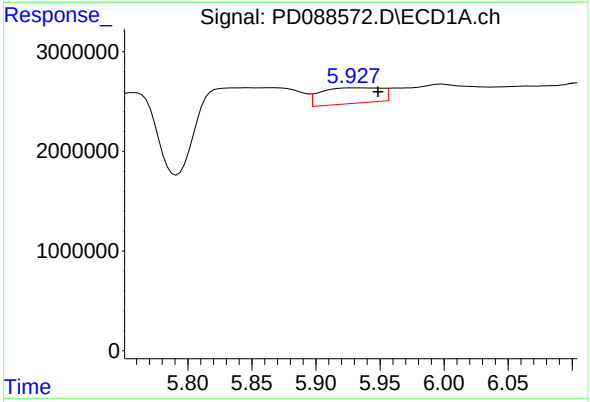
R.T.: 5.263 min
Delta R.T.: 0.019 min
Response: 386462
Conc: 2.32 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



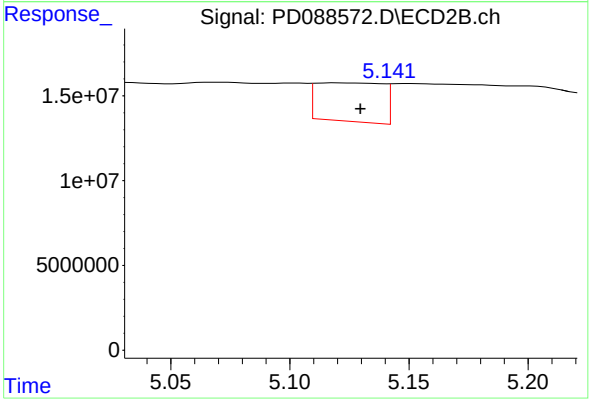
#24 Chlordane-2

R.T.: 4.508 min
Delta R.T.: 0.018 min
Response: 150465307
Conc: 182.31 ng/ml



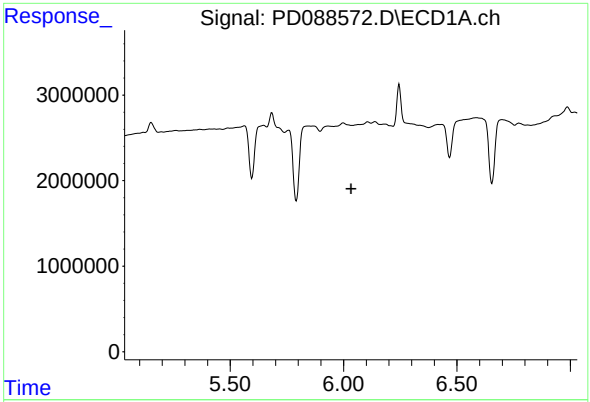
#25 Chlordane-3

R.T.: 5.930 min
Delta R.T.: -0.018 min
Response: 5151752
Conc: 7.64 ng/ml



#25 Chlordane-3

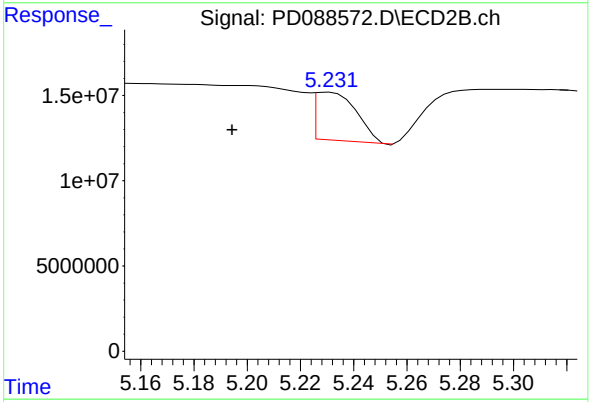
R.T.: 5.119 min
Delta R.T.: -0.010 min
Response: 44211114
Conc: 17.48 ng/ml



#26 Chlordane-4

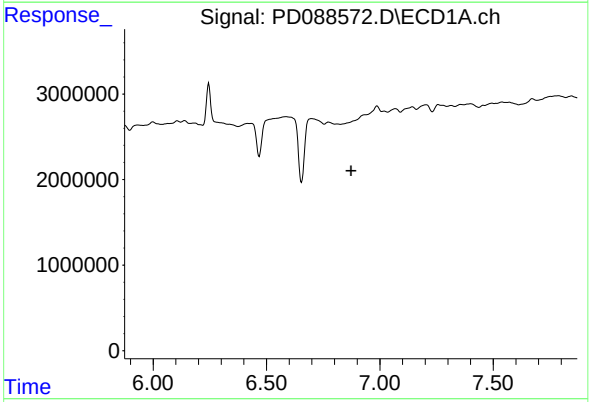
R.T.: 0.000 min
Exp R.T. : 6.034 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
I.BLK



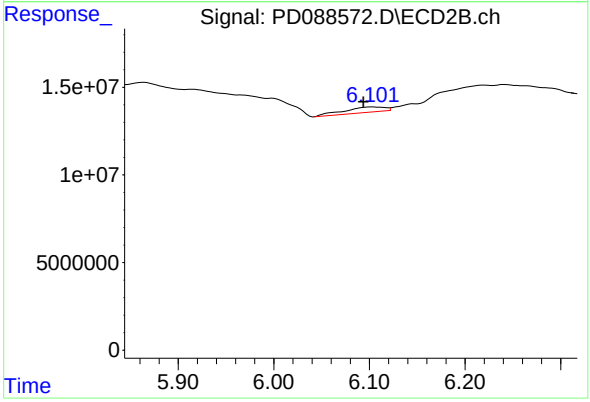
#26 Chlordane-4

R.T.: 5.231 min
Delta R.T.: 0.036 min
Response: 30628803
Conc: 14.32 ng/ml



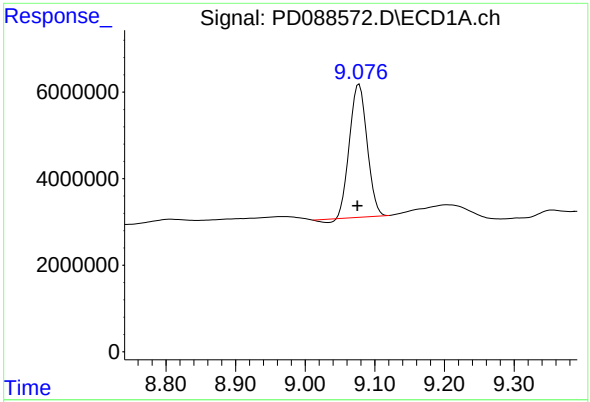
#27 Chlordane-5

R.T.: 0.000 min
Exp R.T. : 6.873 min
Response: 0
Conc: N.D.



#27 Chlordane-5

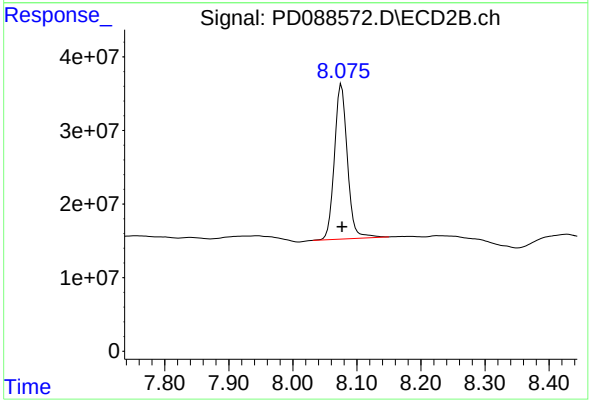
R.T.: 6.103 min
Delta R.T.: 0.009 min
Response: 9065964
Conc: 9.39 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.077 min
Delta R.T.: 0.003 min
Response: 53381612
Conc: 16.14 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 295919908
Conc: 16.01 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088573.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 19:02
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:21:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	System Monitoring Compounds							
1)	SA Tetrachlo...	3.551	2.882	115.3E6	771.0E6	57.724	52.727	
28)	SA Decachlor...	9.075	8.075	160.7E6	760.0E6	48.592	41.128	
	Target Compounds							
2)	A alpha-BHC	4.001	3.395	260.8E6	1217.7E6	60.489	53.263	
3)	MA gamma-BHC...	4.332	3.731	240.3E6	1100.6E6	57.384	51.101	
4)	MA Heptachlor	4.931	4.085	215.7E6	1020.3E6	53.398	47.681	
5)	MB Aldrin	5.273	4.371	233.9E6	1112.5E6	59.231	53.480	
6)	B beta-BHC	4.516	4.027	93312159	483.7E6	57.480	52.264	
7)	B delta-BHC	4.765	4.264	241.1E6	1113.4E6	58.452	52.367	
8)	B Heptachlo...	5.692	4.875	203.1E6	969.4E6	56.824	51.309	
9)	A Endosulfan I	6.076	5.249	190.0E6	857.6E6	56.249	47.609	
10)	B gamma-Chl...	5.947	5.128	206.9E6	1038.4E6	57.129	51.164	
11)	B alpha-Chl...	6.029	5.192	204.1E6	993.9E6	56.556	50.700	
12)	B 4,4'-DDE	6.197	5.377	179.7E6	1036.9E6	54.494	52.649	
13)	MA Dieldrin	6.348	5.515	202.1E6	1014.2E6	56.637	50.879	
14)	MA Endrin	6.576	5.791	161.0E6	905.0E6	53.975	49.721	
15)	B Endosulfa...	6.788	6.082	160.4E6	848.8E6	51.310	48.444	
16)	A 4,4'-DDD	6.707	5.931	146.5E6	862.2E6	58.238	52.615	
17)	MA 4,4'-DDT	7.023	6.186	118.6E6	682.2E6	42.711	40.089	
18)	B Endrin al...	6.917	6.261	112.6E6	602.9E6	48.784	45.325	
19)	B Endosulfa...	7.151	6.484	154.8E6	809.9E6	53.815	47.270	
20)	A Methoxychlor	7.495	6.757	63495162	364.5E6	42.343	39.961	
21)	B Endrin ke...	7.632	6.994	158.8E6	844.3E6	51.452	45.139	
22)	Mirex	8.116	7.187	112.6E6	652.2E6	47.936	44.004	
23)	Chlordane-1	0.000	3.904	0	626988	N.D.	0.782	#
24)	Chlordane-2	5.273f	4.508	233.9E6	72108804	1404.801	87.372	#
25)	Chlordane-3	5.947	5.128	206.9E6	1038.4E6	306.770	410.602	#
26)	Chlordane-4	6.029	5.192	204.1E6	993.9E6	250.383	464.826	#
27)	Chlordane-5	0.000	6.082	0	848.8E6	N.D.	879.127	#

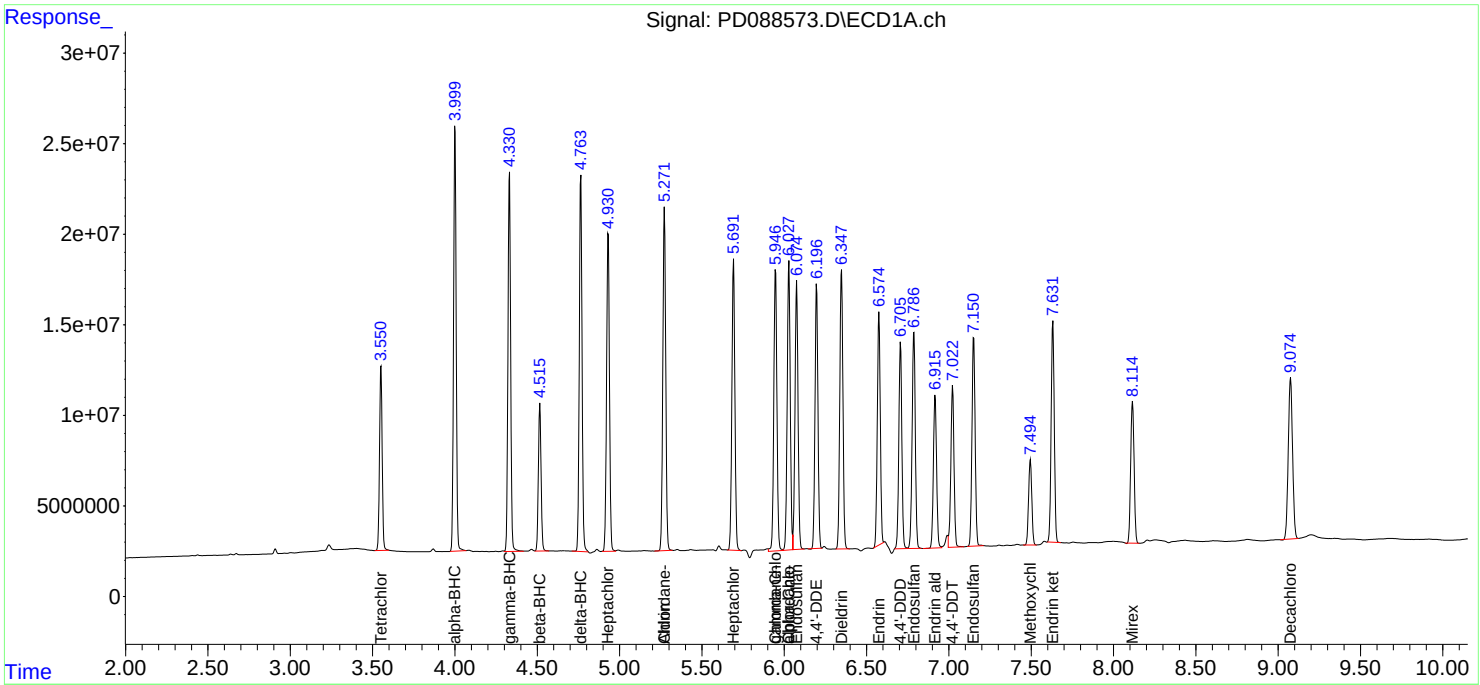
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

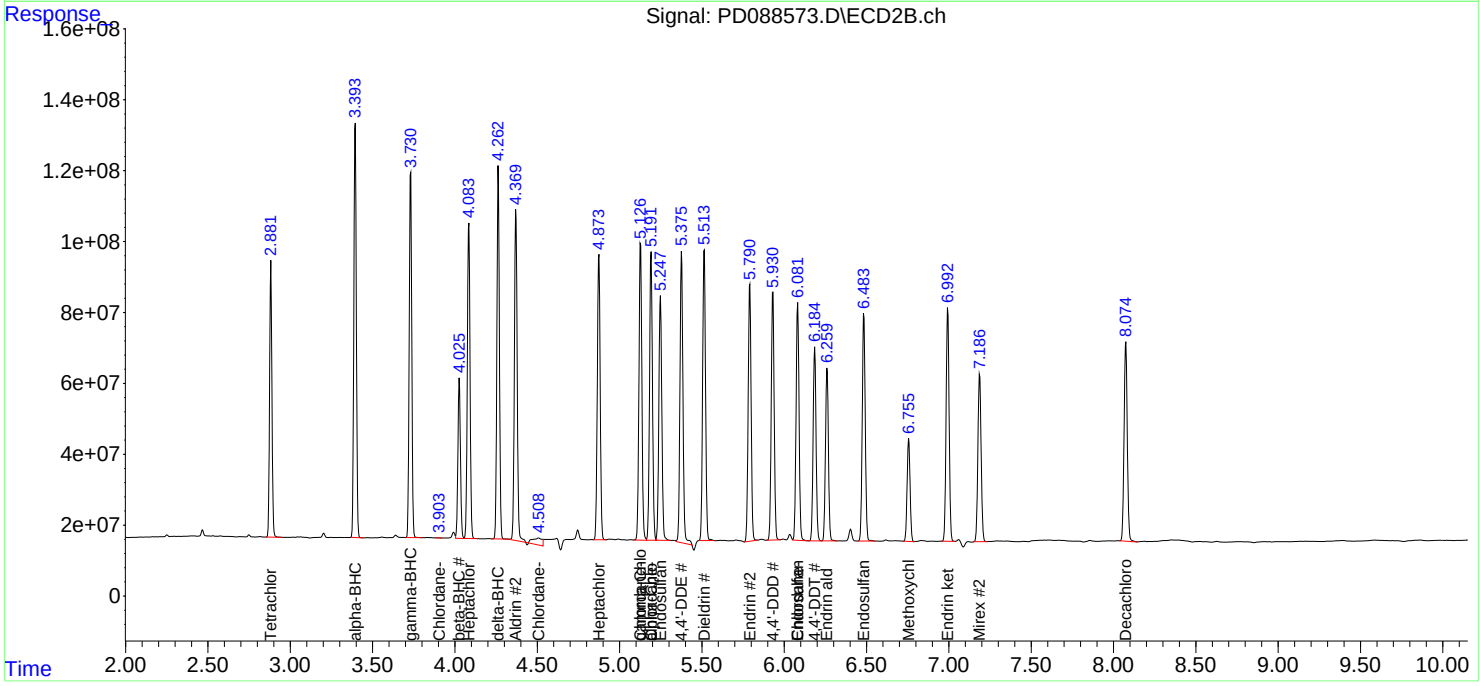
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051525\
Data File : PD088573.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2025 19:02
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

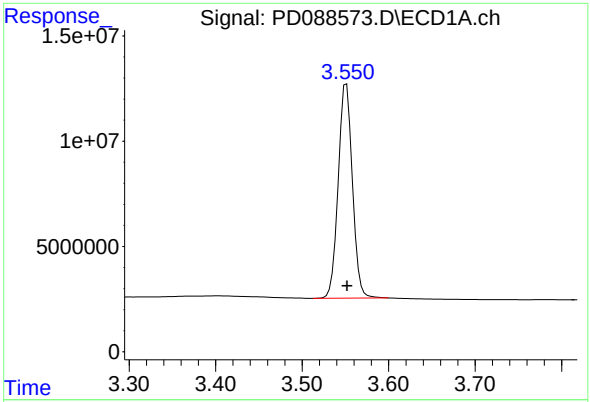
Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 16 02:21:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD041825.M
Quant Title : GC Extractables
QLast Update : Sat Apr 19 06:32:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



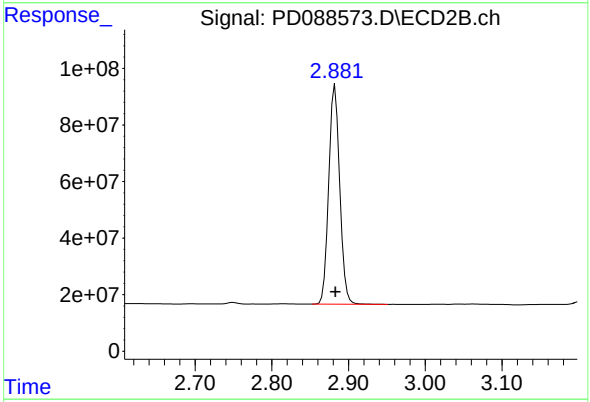




#1 Tetrachloro-m-xylene

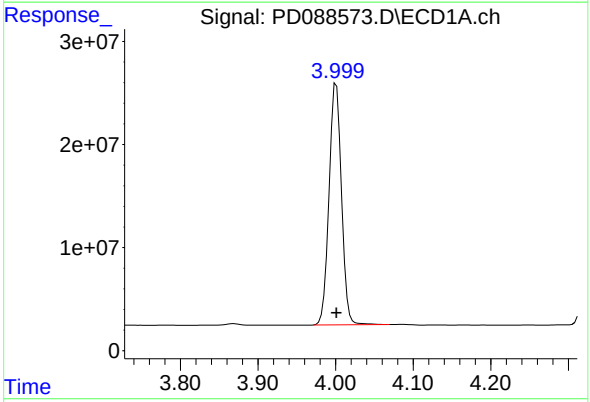
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 115297237
Conc: 57.72 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



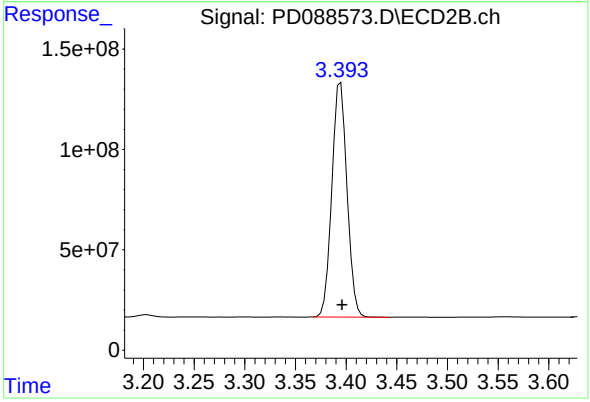
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 770954531
Conc: 52.73 ng/ml



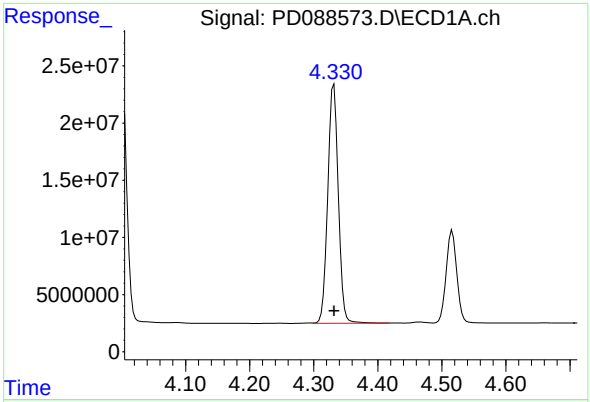
#2 alpha-BHC

R.T.: 4.001 min
Delta R.T.: 0.000 min
Response: 260829636
Conc: 60.49 ng/ml



#2 alpha-BHC

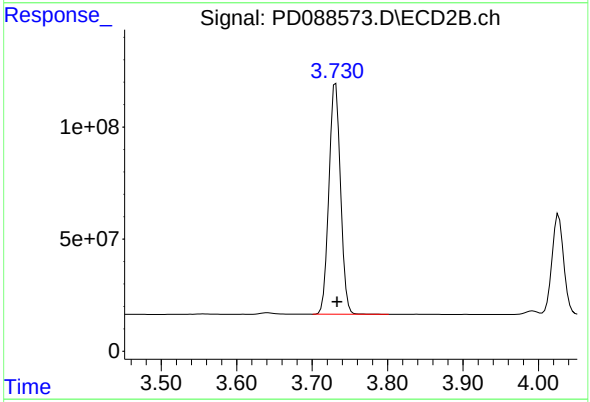
R.T.: 3.395 min
Delta R.T.: -0.001 min
Response: 1217677244
Conc: 53.26 ng/ml



#3 gamma-BHC (Lindane)

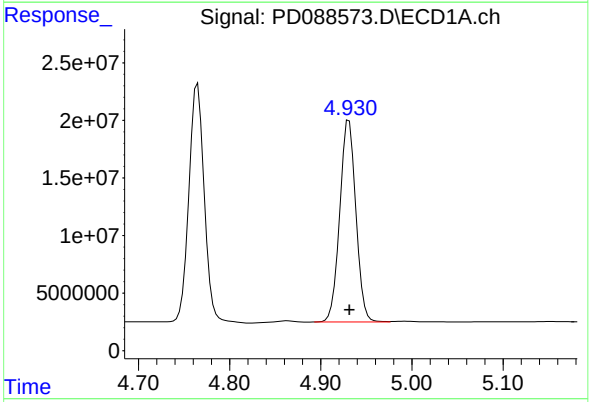
R.T.: 4.332 min
Delta R.T.: 0.000 min
Response: 240294542
Conc: 57.38 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



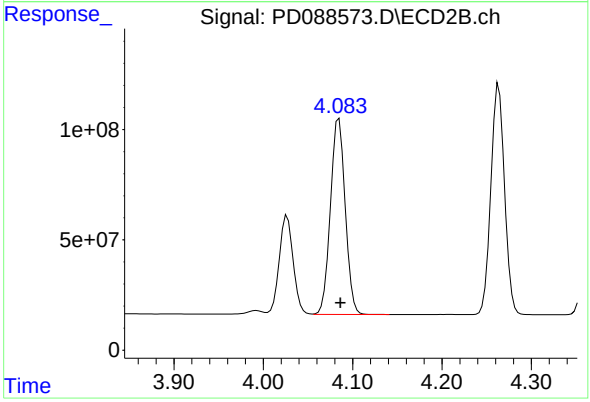
#3 gamma-BHC (Lindane)

R.T.: 3.731 min
Delta R.T.: -0.002 min
Response: 1100649478
Conc: 51.10 ng/ml



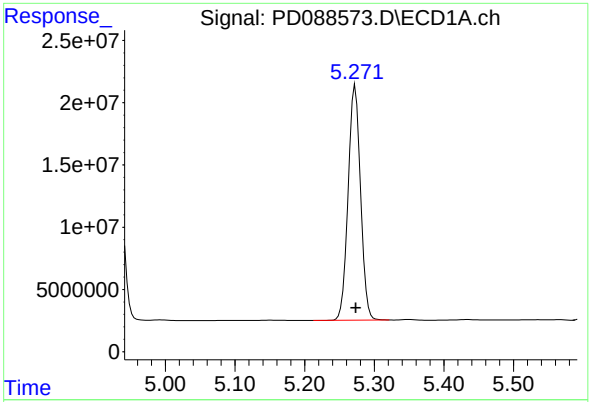
#4 Heptachlor

R.T.: 4.931 min
Delta R.T.: 0.000 min
Response: 215673999
Conc: 53.40 ng/ml



#4 Heptachlor

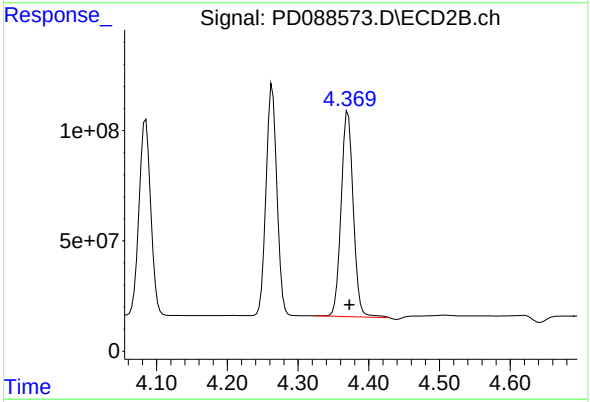
R.T.: 4.085 min
Delta R.T.: -0.002 min
Response: 1020287532
Conc: 47.68 ng/ml



#5 Aldrin

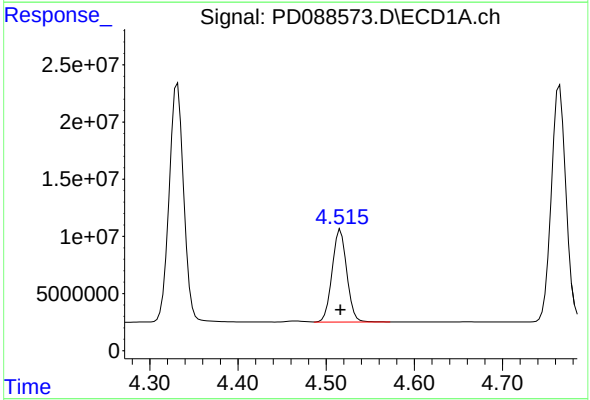
R.T.: 5.273 min
Delta R.T.: 0.000 min
Response: 233939721
Conc: 59.23 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



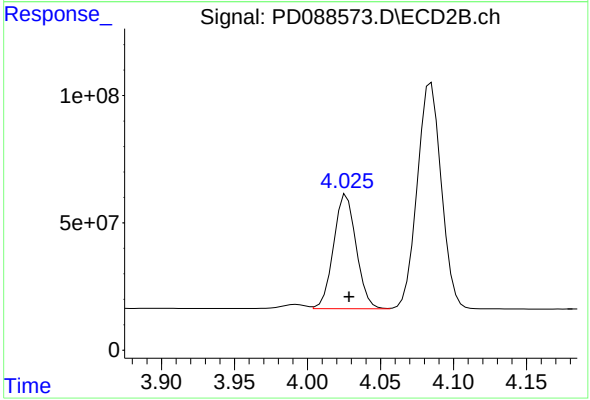
#5 Aldrin

R.T.: 4.371 min
Delta R.T.: -0.002 min
Response: 1112525552
Conc: 53.48 ng/ml



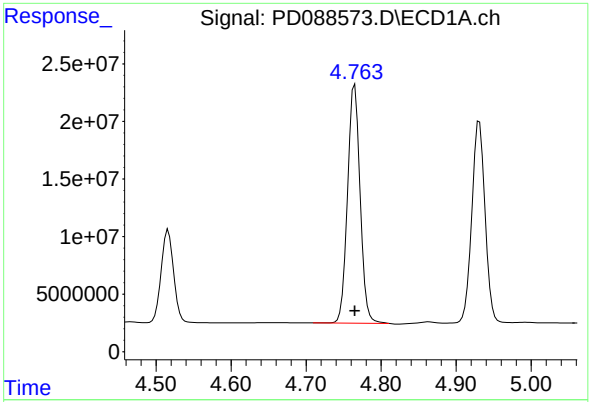
#6 beta-BHC

R.T.: 4.516 min
Delta R.T.: 0.000 min
Response: 93312159
Conc: 57.48 ng/ml



#6 beta-BHC

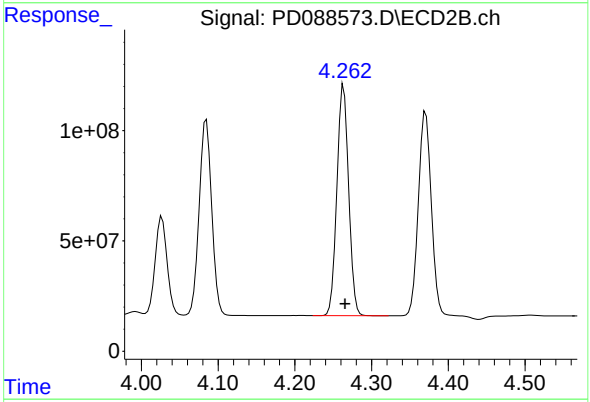
R.T.: 4.027 min
Delta R.T.: -0.002 min
Response: 483658374
Conc: 52.26 ng/ml



#7 delta-BHC

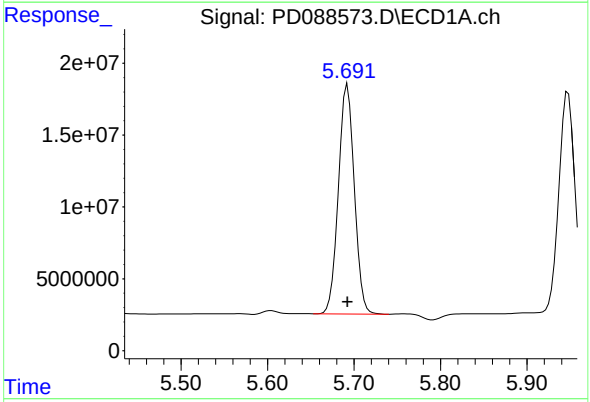
R.T.: 4.765 min
Delta R.T.: 0.000 min
Response: 241113699
Conc: 58.45 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



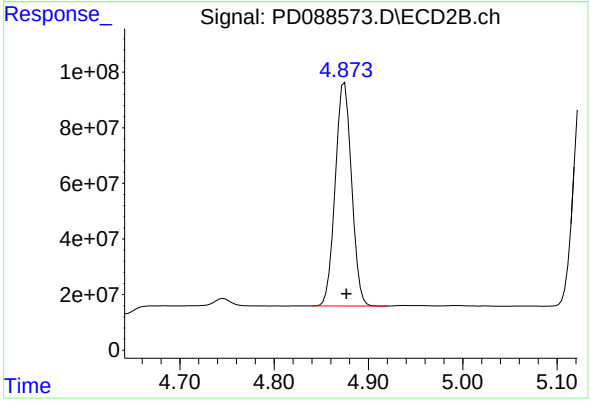
#7 delta-BHC

R.T.: 4.264 min
Delta R.T.: -0.002 min
Response: 1113409617
Conc: 52.37 ng/ml



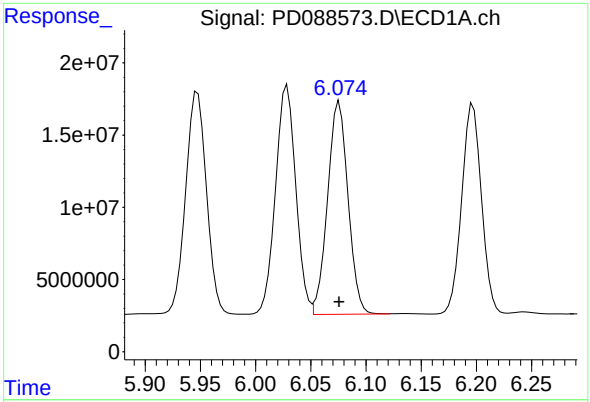
#8 Heptachlor epoxide

R.T.: 5.692 min
Delta R.T.: 0.000 min
Response: 203086247
Conc: 56.82 ng/ml



#8 Heptachlor epoxide

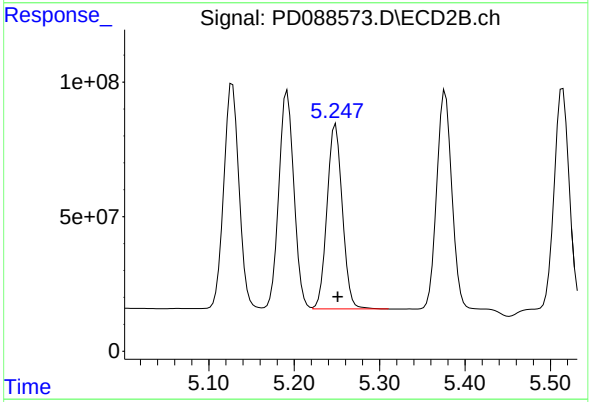
R.T.: 4.875 min
Delta R.T.: -0.002 min
Response: 969448265
Conc: 51.31 ng/ml



#9 Endosulfan I

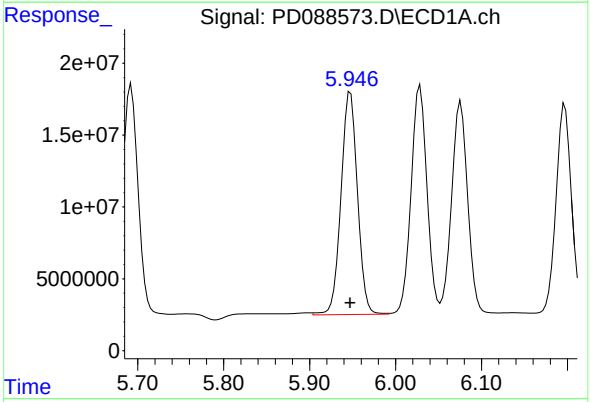
R.T.: 6.076 min
Delta R.T.: 0.000 min
Response: 189961918
Conc: 56.25 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



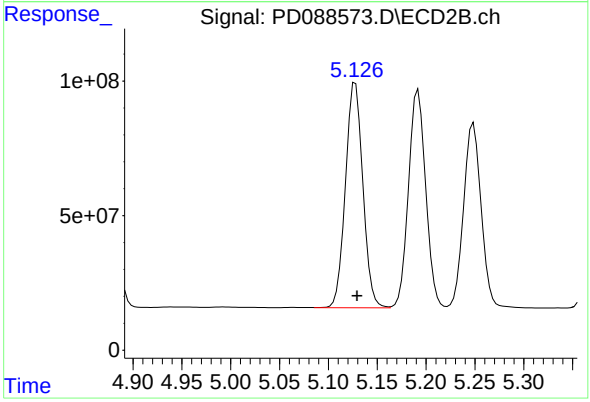
#9 Endosulfan I

R.T.: 5.249 min
Delta R.T.: -0.003 min
Response: 857555217
Conc: 47.61 ng/ml



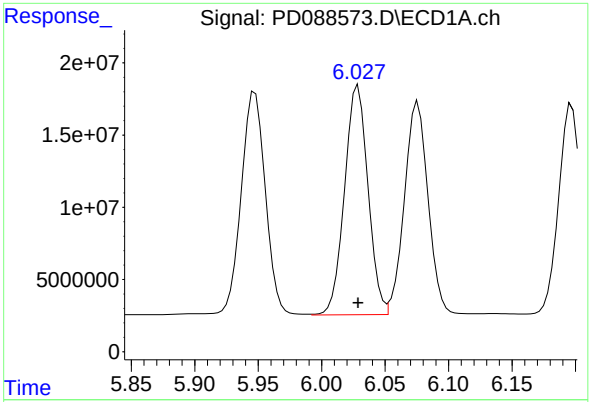
#10 gamma-Chlordane

R.T.: 5.947 min
Delta R.T.: 0.000 min
Response: 206925481
Conc: 57.13 ng/ml



#10 gamma-Chlordane

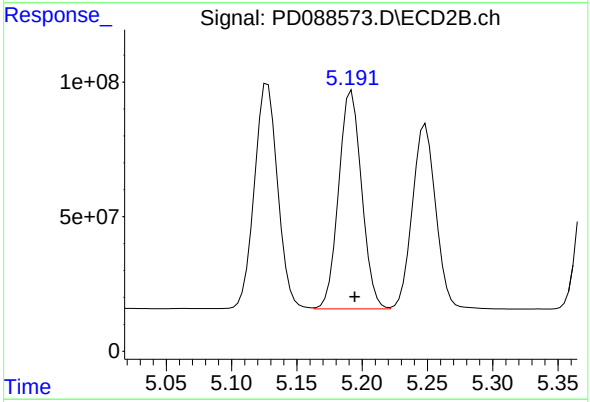
R.T.: 5.128 min
Delta R.T.: -0.002 min
Response: 1038429005
Conc: 51.16 ng/ml



#11 alpha-Chlordane

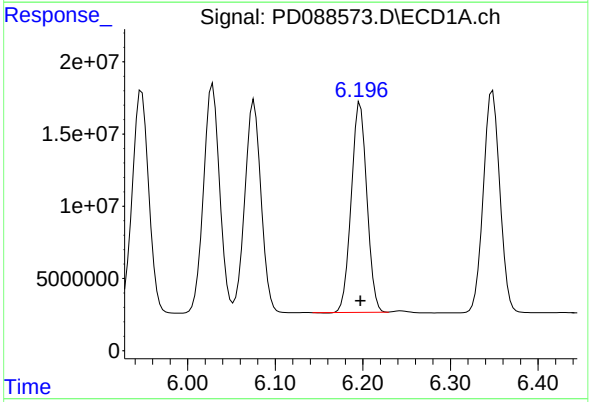
R.T.: 6.029 min
Delta R.T.: 0.000 min
Response: 204143419
Conc: 56.56 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



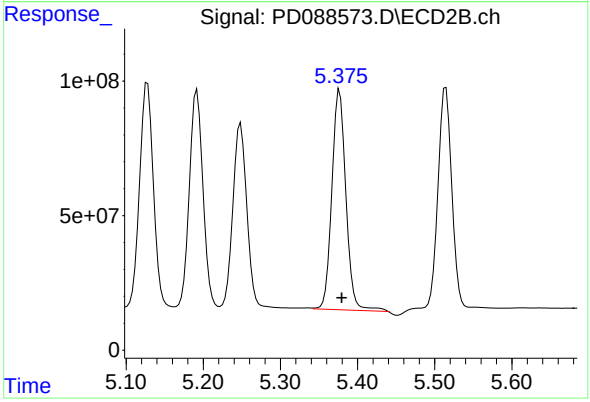
#11 alpha-Chlordane

R.T.: 5.192 min
Delta R.T.: -0.002 min
Response: 993869003
Conc: 50.70 ng/ml



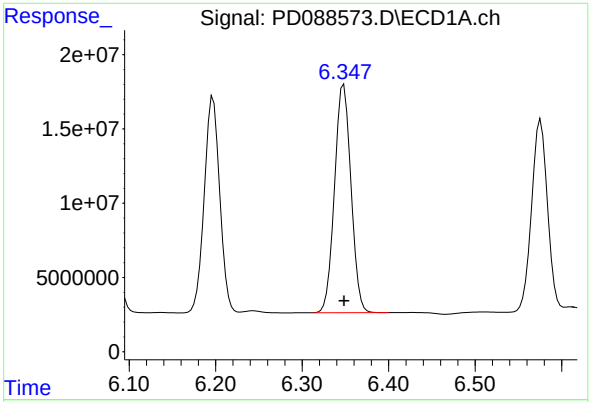
#12 4,4'-DDE

R.T.: 6.197 min
Delta R.T.: 0.000 min
Response: 179734857
Conc: 54.49 ng/ml



#12 4,4'-DDE

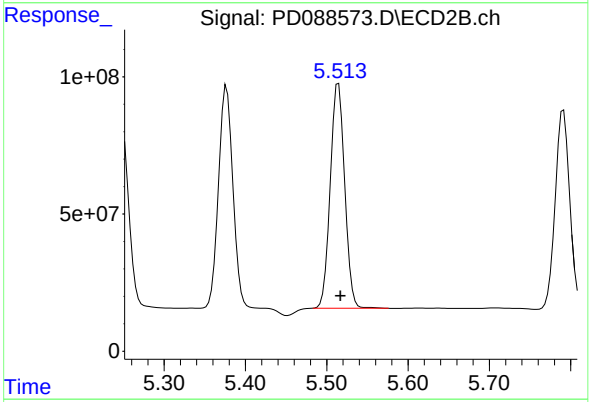
R.T.: 5.377 min
Delta R.T.: -0.003 min
Response: 1036863347
Conc: 52.65 ng/ml



#13 Dieldrin

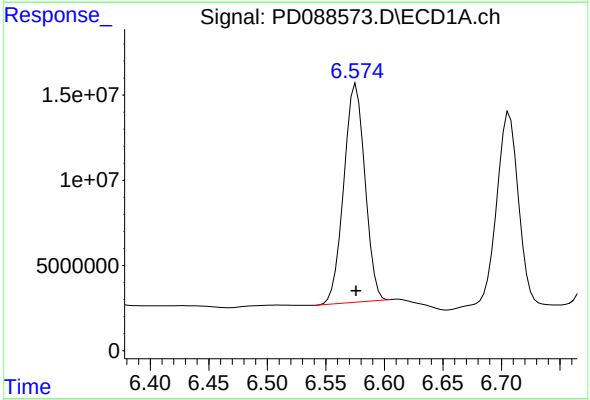
R.T.: 6.348 min
Delta R.T.: 0.000 min
Response: 202107742
Conc: 56.64 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



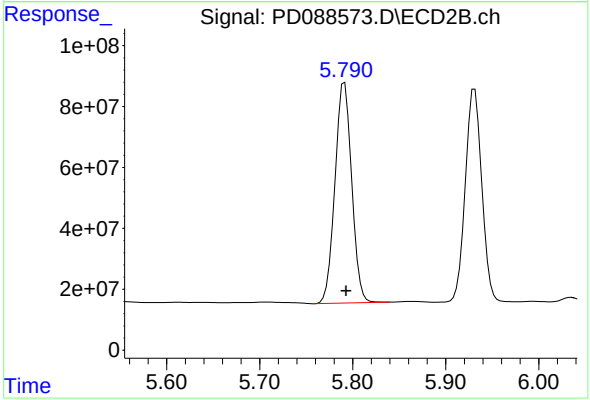
#13 Dieldrin

R.T.: 5.515 min
Delta R.T.: -0.002 min
Response: 1014154997
Conc: 50.88 ng/ml



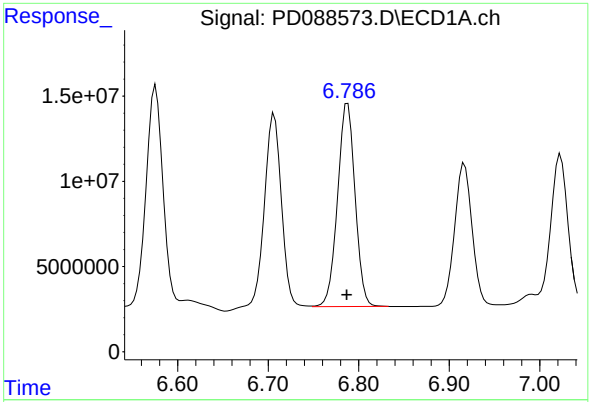
#14 Endrin

R.T.: 6.576 min
Delta R.T.: 0.000 min
Response: 160984722
Conc: 53.98 ng/ml



#14 Endrin

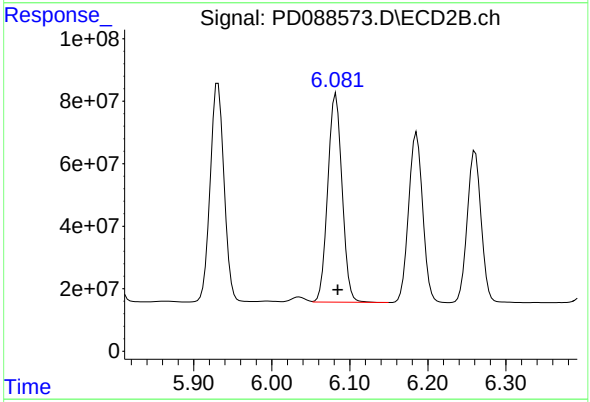
R.T.: 5.791 min
Delta R.T.: -0.002 min
Response: 905041760
Conc: 49.72 ng/ml



#15 Endosulfan II

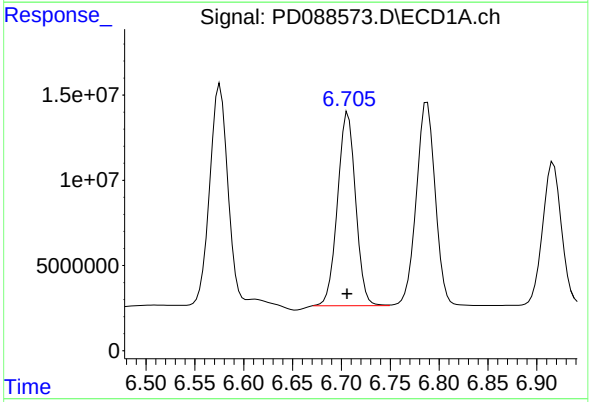
R.T.: 6.788 min
Delta R.T.: 0.000 min
Response: 160404697
Conc: 51.31 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



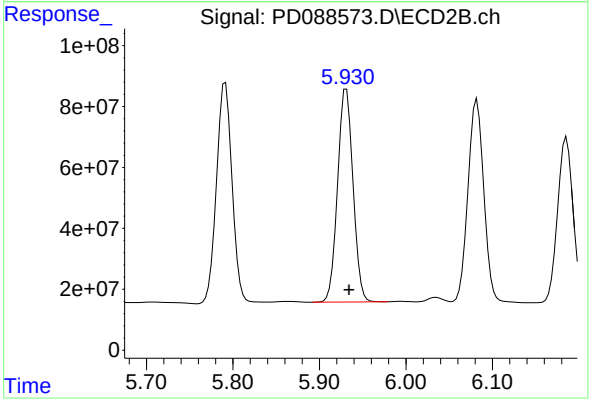
#15 Endosulfan II

R.T.: 6.082 min
Delta R.T.: -0.002 min
Response: 848819232
Conc: 48.44 ng/ml



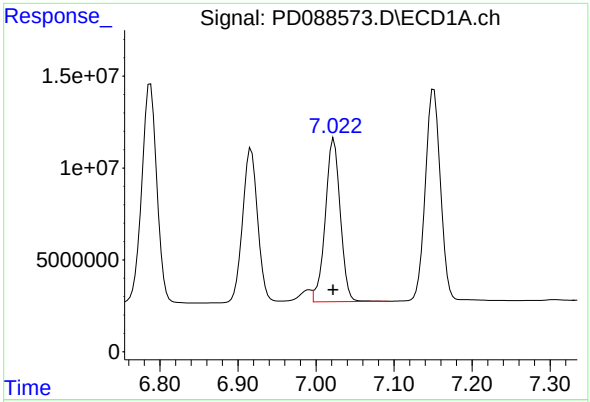
#16 4,4'-DDD

R.T.: 6.707 min
Delta R.T.: 0.000 min
Response: 146465081
Conc: 58.24 ng/ml



#16 4,4'-DDD

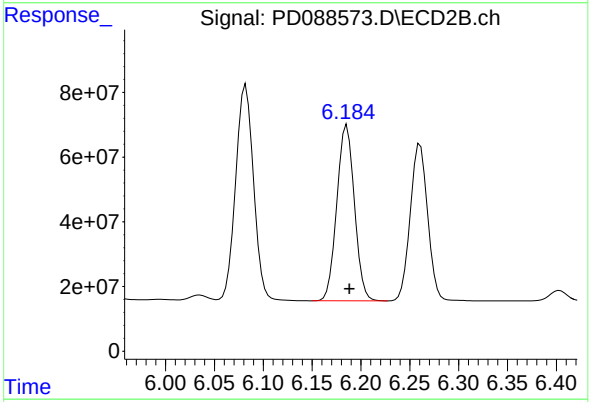
R.T.: 5.931 min
Delta R.T.: -0.003 min
Response: 862164221
Conc: 52.62 ng/ml



#17 4,4'-DDT

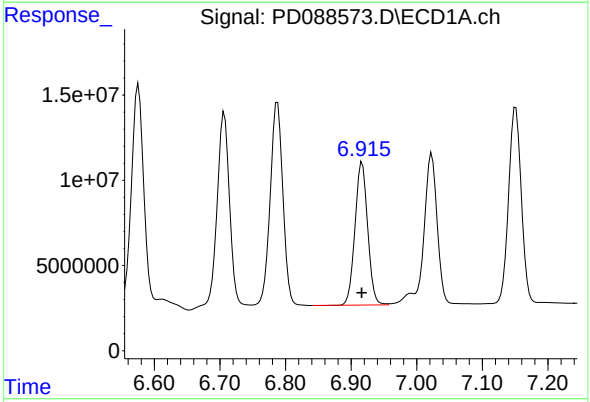
R.T.: 7.023 min
Delta R.T.: 0.000 min
Response: 118630511
Conc: 42.71 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



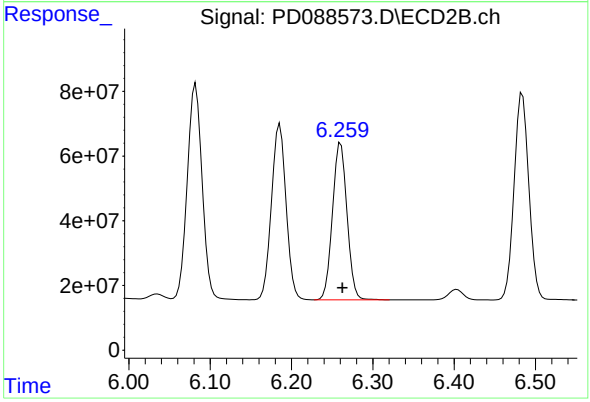
#17 4,4'-DDT

R.T.: 6.186 min
Delta R.T.: -0.002 min
Response: 682182076
Conc: 40.09 ng/ml



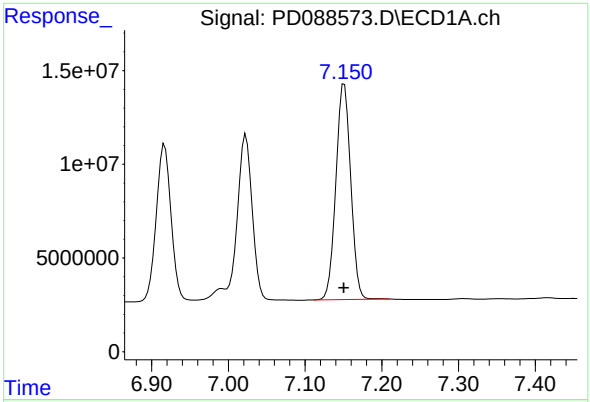
#18 Endrin aldehyde

R.T.: 6.917 min
Delta R.T.: 0.000 min
Response: 112592132
Conc: 48.78 ng/ml



#18 Endrin aldehyde

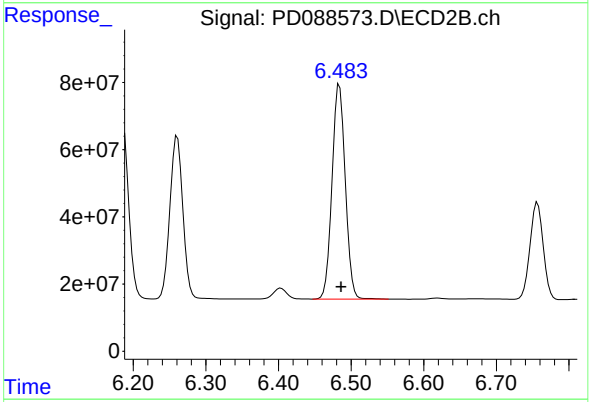
R.T.: 6.261 min
Delta R.T.: -0.002 min
Response: 602860184
Conc: 45.32 ng/ml



#19 Endosulfan Sulfate

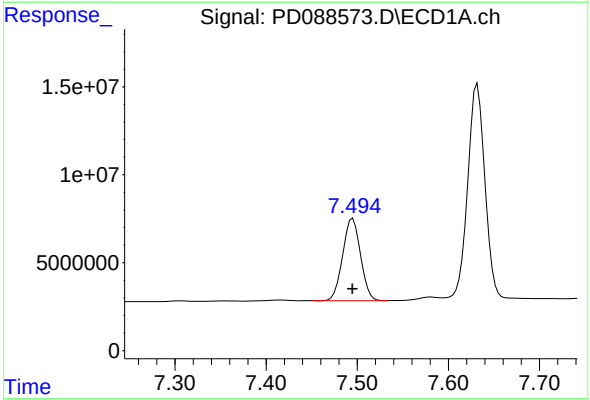
R.T.: 7.151 min
Delta R.T.: 0.000 min
Response: 154762679
Conc: 53.81 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



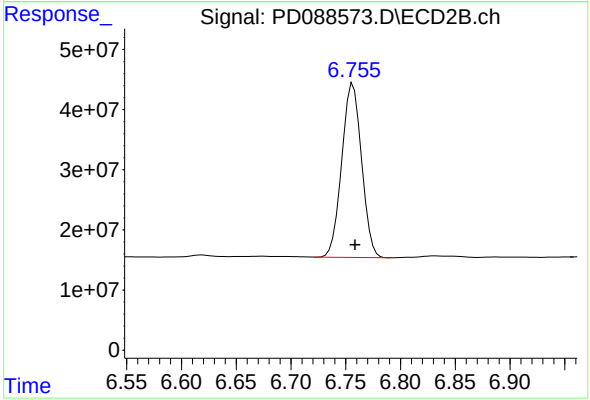
#19 Endosulfan Sulfate

R.T.: 6.484 min
Delta R.T.: -0.002 min
Response: 809893270
Conc: 47.27 ng/ml



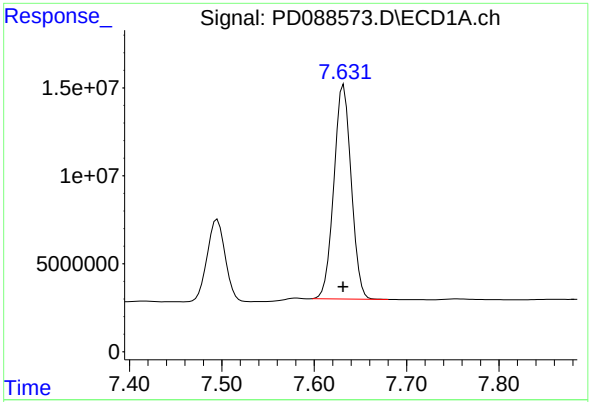
#20 Methoxychlor

R.T.: 7.495 min
Delta R.T.: 0.000 min
Response: 63495162
Conc: 42.34 ng/ml



#20 Methoxychlor

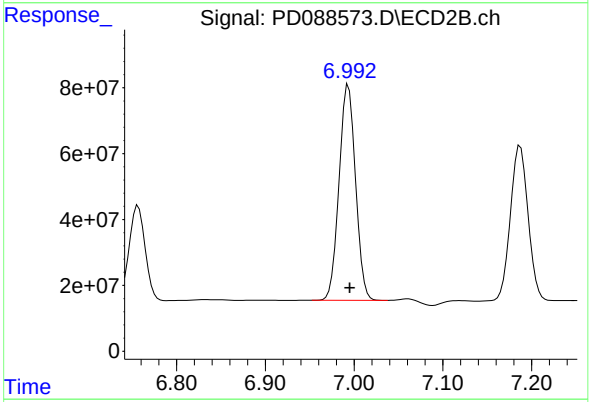
R.T.: 6.757 min
Delta R.T.: -0.002 min
Response: 364485516
Conc: 39.96 ng/ml



#21 Endrin ketone

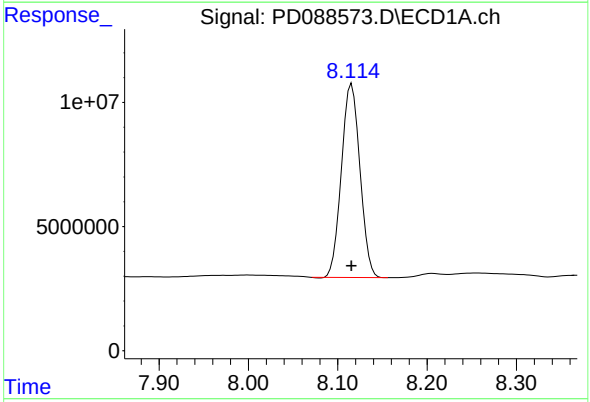
R.T.: 7.632 min
Delta R.T.: 0.000 min
Response: 158811903
Conc: 51.45 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



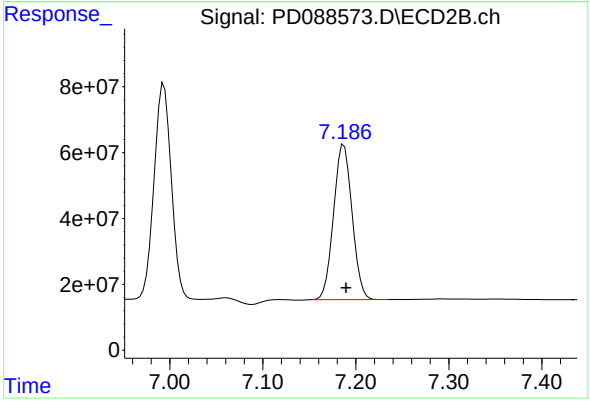
#21 Endrin ketone

R.T.: 6.994 min
Delta R.T.: -0.001 min
Response: 844280216
Conc: 45.14 ng/ml



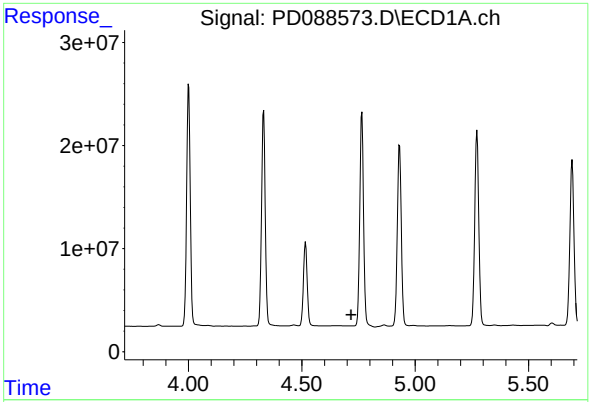
#22 Mirex

R.T.: 8.116 min
Delta R.T.: 0.000 min
Response: 112568164
Conc: 47.94 ng/ml



#22 Mirex

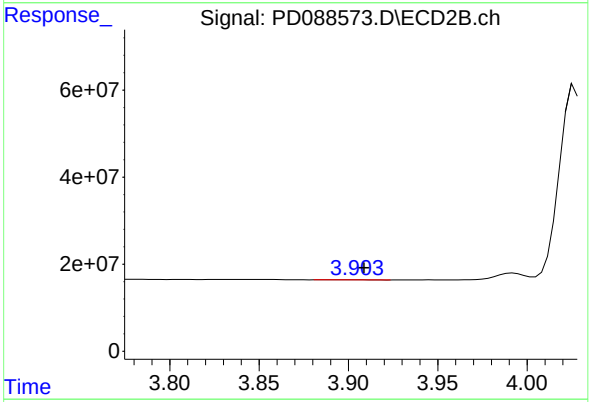
R.T.: 7.187 min
Delta R.T.: -0.002 min
Response: 652188709
Conc: 44.00 ng/ml



#23 Chlordane-1

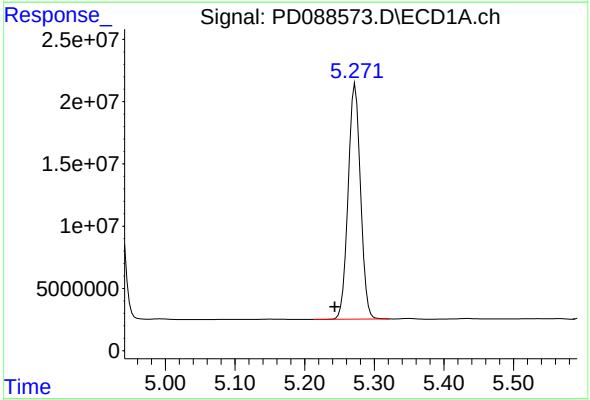
R.T.: 0.000 min
Exp R.T. : 4.717 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



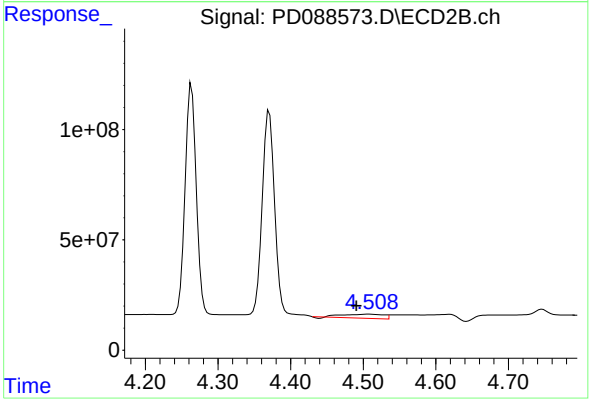
#23 Chlordane-1

R.T.: 3.904 min
Delta R.T.: -0.004 min
Response: 626988
Conc: 0.78 ng/ml



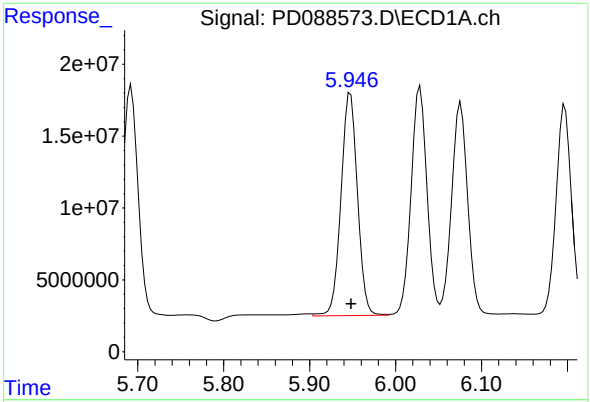
#24 Chlordane-2

R.T.: 5.273 min
Delta R.T.: 0.029 min
Response: 233939721
Conc: 1404.80 ng/ml



#24 Chlordane-2

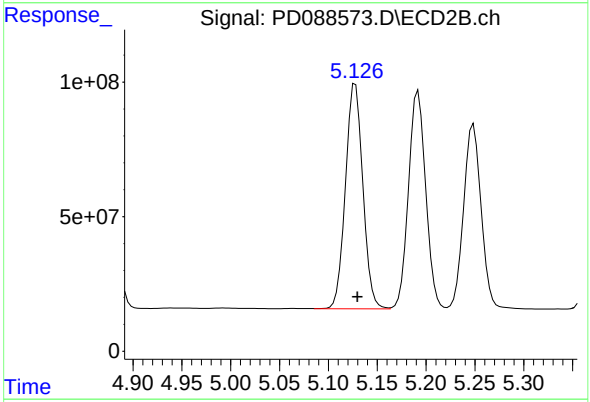
R.T.: 4.508 min
Delta R.T.: 0.017 min
Response: 72108804
Conc: 87.37 ng/ml



#25 Chlordane-3

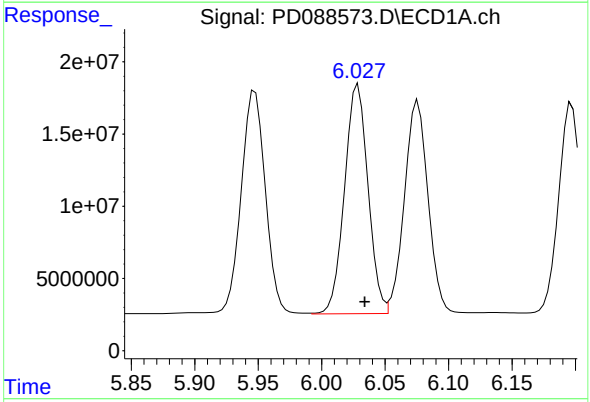
R.T.: 5.947 min
Delta R.T.: 0.000 min
Response: 206925481
Conc: 306.77 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



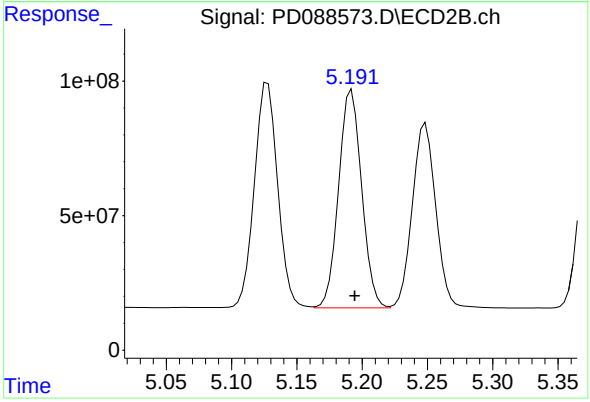
#25 Chlordane-3

R.T.: 5.128 min
Delta R.T.: -0.002 min
Response: 1038429005
Conc: 410.60 ng/ml



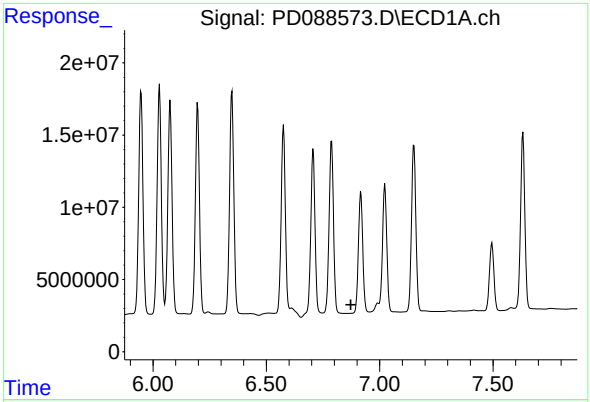
#26 Chlordane-4

R.T.: 6.029 min
Delta R.T.: -0.005 min
Response: 204143419
Conc: 250.38 ng/ml



#26 Chlordane-4

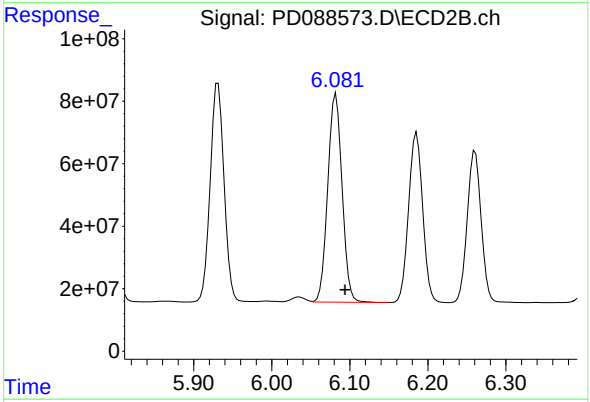
R.T.: 5.192 min
Delta R.T.: -0.002 min
Response: 993869003
Conc: 464.83 ng/ml



#27 Chlordane-5

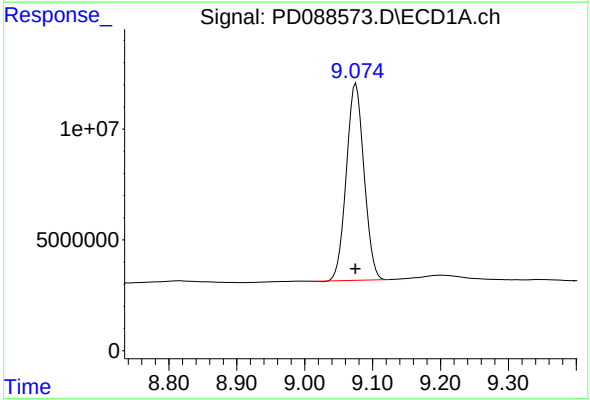
R.T.: 0.000 min
Exp R.T. : 6.873 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



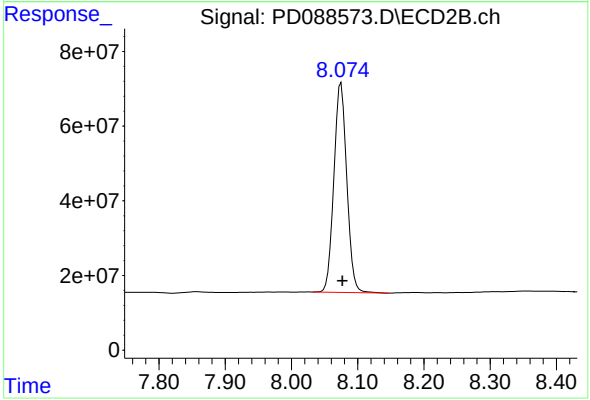
#27 Chlordane-5

R.T.: 6.082 min
Delta R.T.: -0.012 min
Response: 848819232
Conc: 879.13 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.075 min
Delta R.T.: 0.000 min
Response: 160748737
Conc: 48.59 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.075 min
Delta R.T.: -0.002 min
Response: 760020389
Conc: 41.13 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088584.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 11:04
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PEM

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 14:00:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 13:57:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
		System Monitoring Compounds							
1)	SA	Tetrachlo...	3.550	2.881	43185677	307.7E6	19.959	20.343	
28)	SA	Decachlor...	9.076	8.076	73616024	382.7E6	21.510	20.961	
		Target Compounds							
2)	A	alpha-BHC	3.999	3.394	43541198	252.7E6	9.116	10.572	
3)	MA	gamma-BHC...	4.331	3.731	43519433	236.4E6	9.455	10.667	
4)	MA	Heptachlor	4.938	4.082	588889	1692805	0.132	0.075	#
5)	MB	Aldrin	5.255f	4.359	479963	5836904	0.109	0.266	#
6)	B	beta-BHC	4.516	4.027	18494243	107.0E6	10.257	10.988	
7)	B	delta-BHC	4.779	4.265	1664302	1224493	0.394	0.055	#
8)	B	Heptachlo...	5.683	4.884	3695083	479355	0.931	0.024	#
9)	A	Endosulfan I	6.101f	0.000	160493	0	0.043	N.D.	#
10)	B	gamma-Chl...	5.947	5.129	627612	9522313	0.157	0.446	#
11)	B	alpha-Chl...	6.033	5.190	889163	23598968	0.222	1.144	#
12)	B	4,4'-DDE	6.204	5.382	249997	1412926	0.070	0.068	
13)	MA	Dieldrin	0.000	5.518	0	346306	N.D.	0.016	#
14)	MA	Endrin	6.576	5.792	173.7E6	934.8E6	50.857	48.473	
15)	B	Endosulfa...	6.774	6.088	1106128	1689577	0.321	0.092	#
16)	A	4,4'-DDD	6.707	5.937	1526198	6417679	0.548	0.369	#
17)	MA	4,4'-DDT	7.023	6.186	316.0E6	1724.8E6	101.208	95.099	
18)	B	Endrin al...	6.921	6.260	653659	9017476	0.254	0.647	#
19)	B	Endosulfa...	0.000	6.500	0	304472	N.D.	0.017	#
20)	A	Methoxychlor	7.495	6.757	392.1E6	1873.1E6	234.711	195.632	
21)	B	Endrin ke...	7.633	6.993	609123	8681203	0.178	0.449	#
22)		Mirex	0.000	7.181	0	4568201	N.D.	0.300	#
23)		Chlordane-1	0.000	3.901	0	1325854	N.D.	1.605	#
24)		Chlordane-2	5.255	4.489	479963	31313096	2.616	37.101	#
25)		Chlordane-3	5.947	5.129	627612	9522313	0.848	3.611	#
26)		Chlordane-4	6.033	5.190	889163	23598968	0.992	10.666	#
27)		Chlordane-5	6.870	6.088	294477	1689577	1.936	1.688	

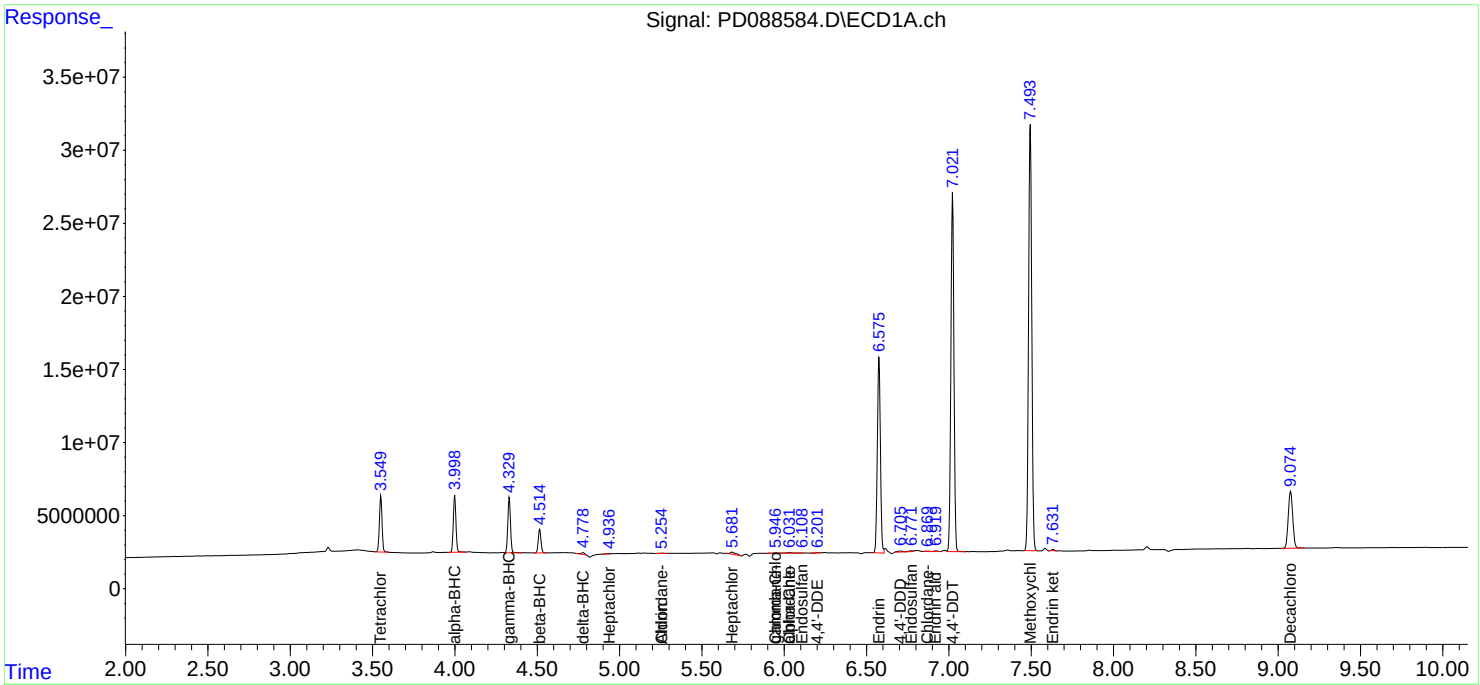
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

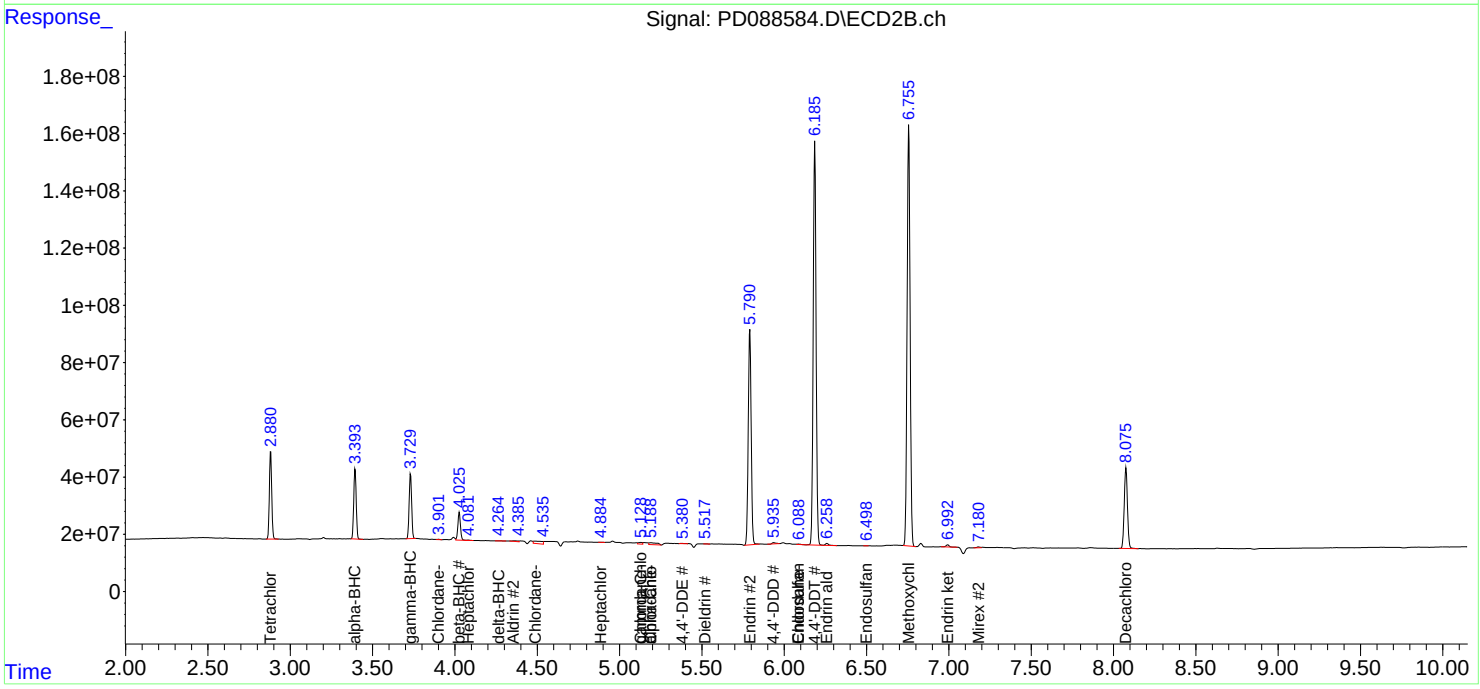
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088584.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 11:04
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

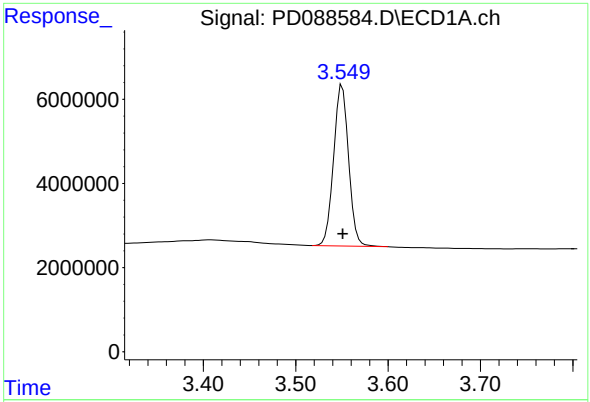
Instrument :
ECD_D
ClientSampleId :
PEM

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 14:00:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 13:57:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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



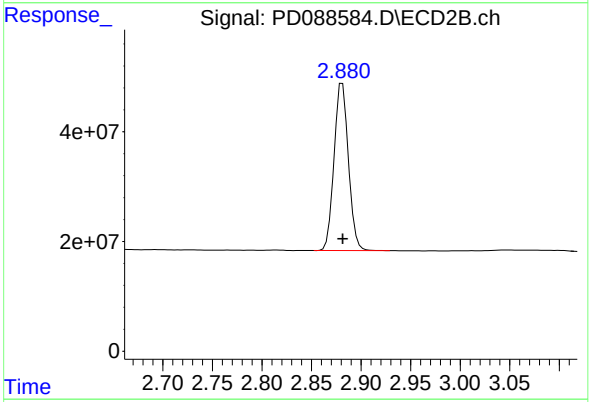




#1 Tetrachloro-m-xylene

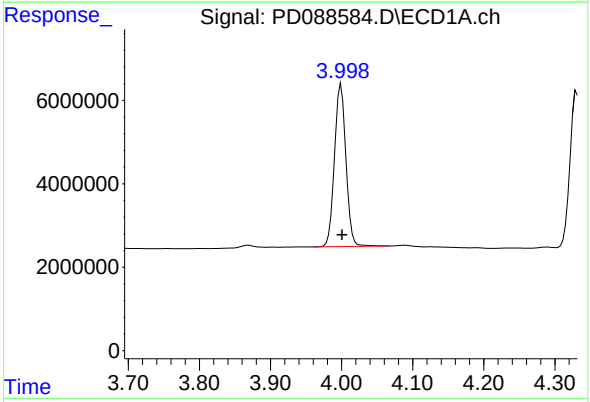
R.T.: 3.550 min
Delta R.T.: 0.000 min
Response: 43185677
Conc: 19.96 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



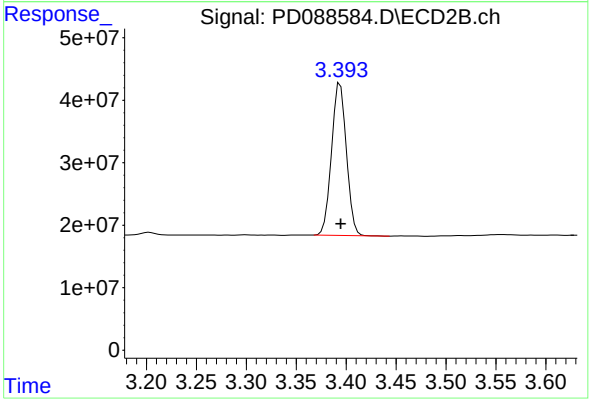
#1 Tetrachloro-m-xylene

R.T.: 2.881 min
Delta R.T.: 0.000 min
Response: 307731812
Conc: 20.34 ng/ml



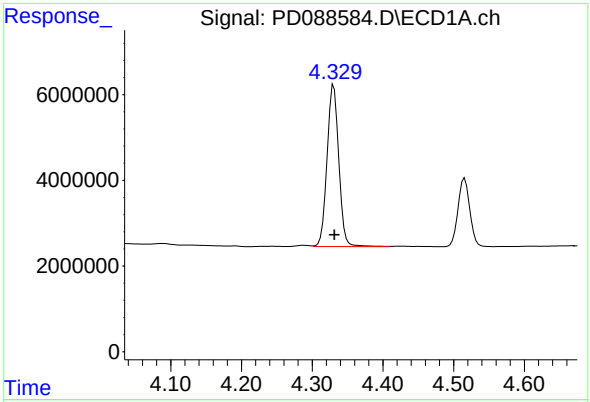
#2 alpha-BHC

R.T.: 3.999 min
Delta R.T.: -0.001 min
Response: 43541198
Conc: 9.12 ng/ml



#2 alpha-BHC

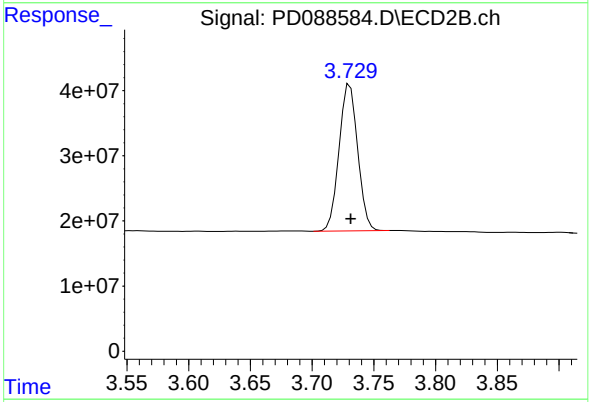
R.T.: 3.394 min
Delta R.T.: 0.000 min
Response: 252707737
Conc: 10.57 ng/ml



#3 gamma-BHC (Lindane)

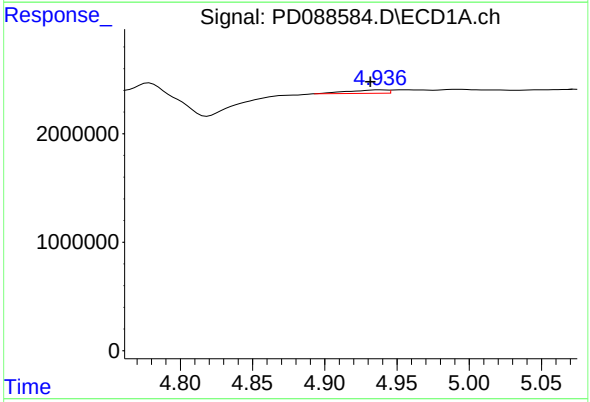
R.T.: 4.331 min
Delta R.T.: -0.001 min
Response: 43519433
Conc: 9.46 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



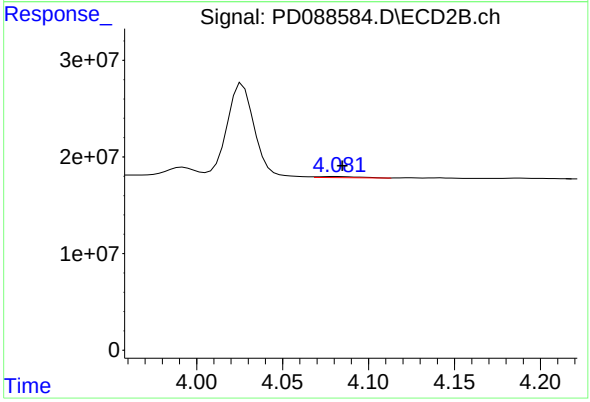
#3 gamma-BHC (Lindane)

R.T.: 3.731 min
Delta R.T.: 0.000 min
Response: 236443252
Conc: 10.67 ng/ml



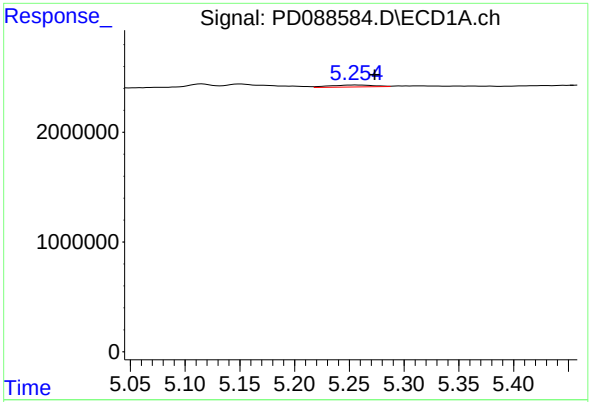
#4 Heptachlor

R.T.: 4.938 min
Delta R.T.: 0.007 min
Response: 588889
Conc: 0.13 ng/ml



#4 Heptachlor

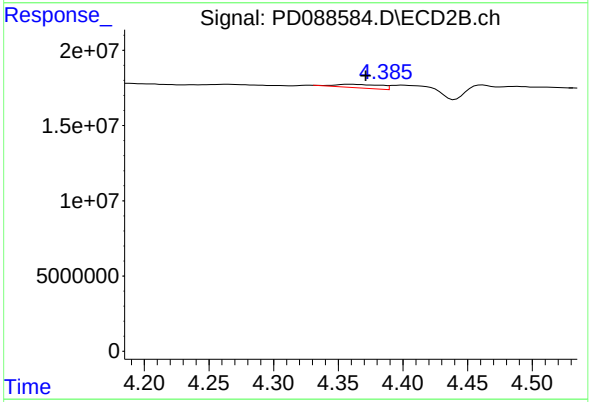
R.T.: 4.082 min
Delta R.T.: -0.003 min
Response: 1692805
Conc: 0.08 ng/ml



#5 Aldrin

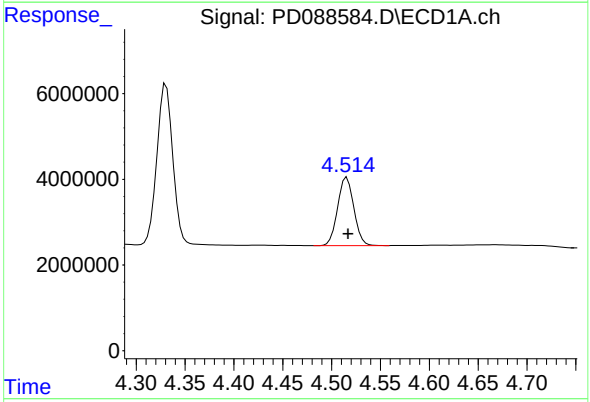
R.T.: 5.255 min
Delta R.T.: -0.018 min
Response: 479963
Conc: 0.11 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



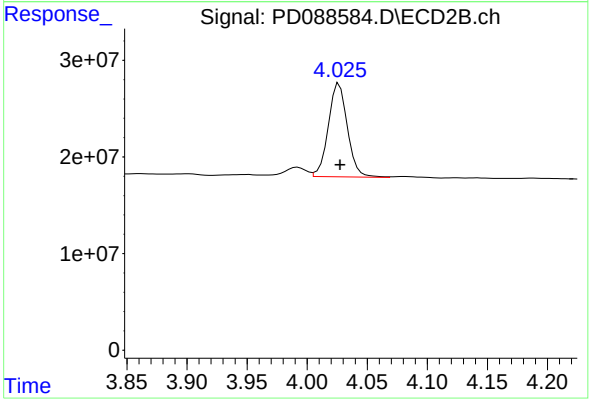
#5 Aldrin

R.T.: 4.359 min
Delta R.T.: -0.013 min
Response: 5836904
Conc: 0.27 ng/ml



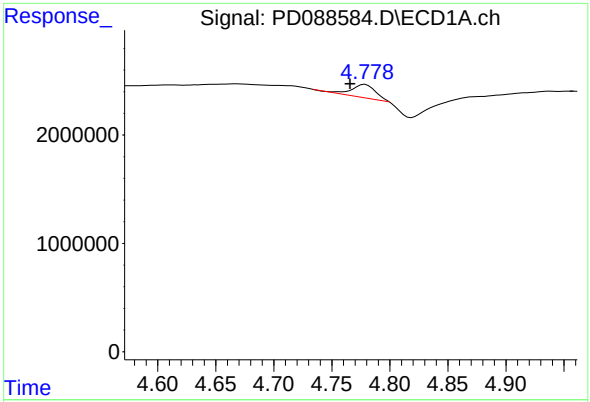
#6 beta-BHC

R.T.: 4.516 min
Delta R.T.: -0.001 min
Response: 18494243
Conc: 10.26 ng/ml



#6 beta-BHC

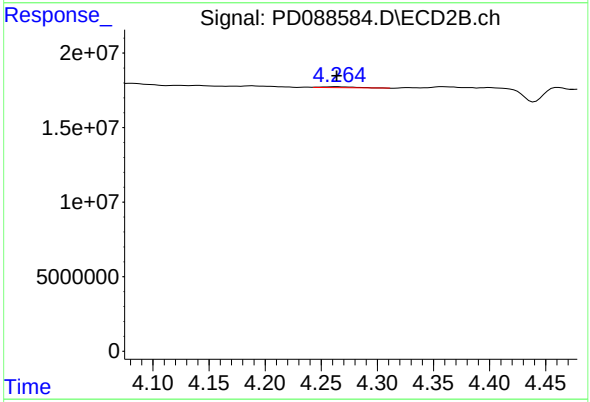
R.T.: 4.027 min
Delta R.T.: 0.000 min
Response: 107044796
Conc: 10.99 ng/ml



#7 delta-BHC

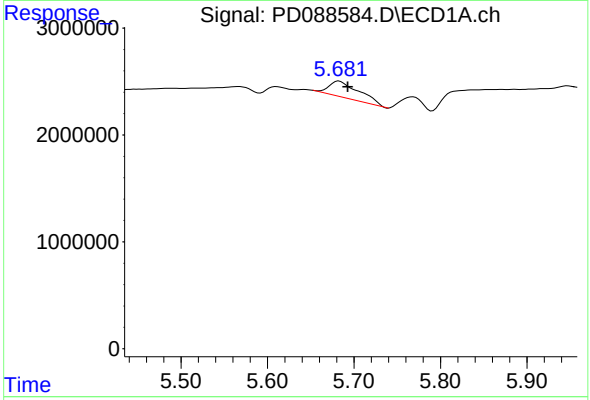
R.T.: 4.779 min
Delta R.T.: 0.013 min
Response: 1664302
Conc: 0.39 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



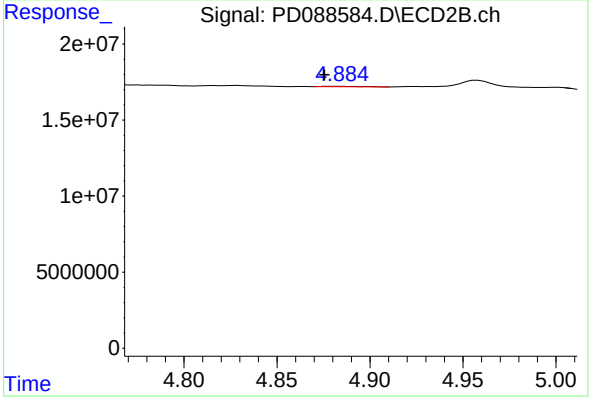
#7 delta-BHC

R.T.: 4.265 min
Delta R.T.: 0.001 min
Response: 1224493
Conc: 0.05 ng/ml



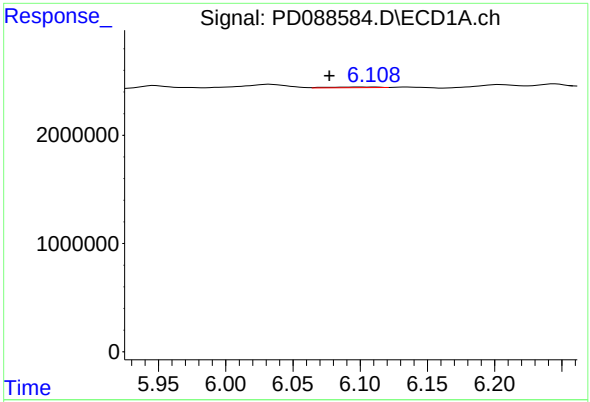
#8 Heptachlor epoxide

R.T.: 5.683 min
Delta R.T.: -0.010 min
Response: 3695083
Conc: 0.93 ng/ml



#8 Heptachlor epoxide

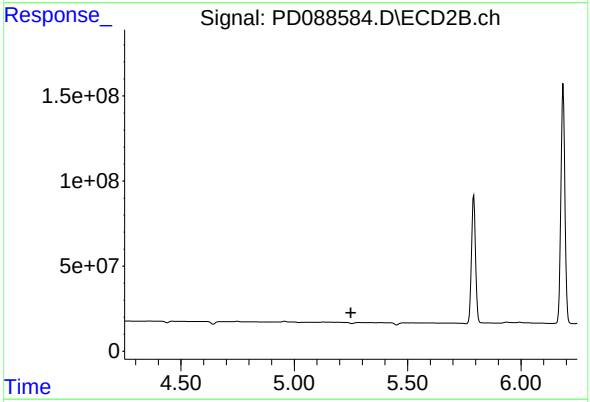
R.T.: 4.884 min
Delta R.T.: 0.009 min
Response: 479355
Conc: 0.02 ng/ml



#9 Endosulfan I

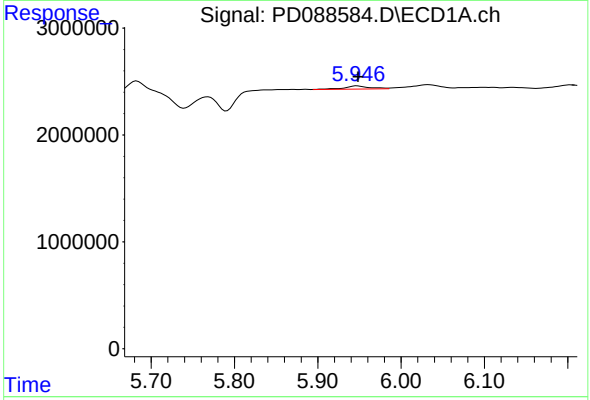
R.T.: 6.101 min
Delta R.T.: 0.024 min
Response: 160493
Conc: 0.04 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



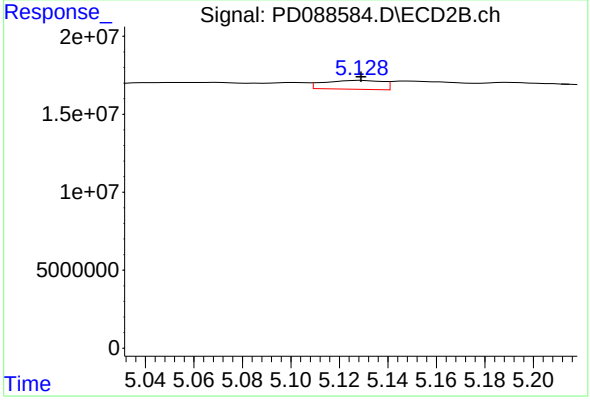
#9 Endosulfan I

R.T.: 0.000 min
Exp R.T. : 5.250 min
Response: 0
Conc: N.D.



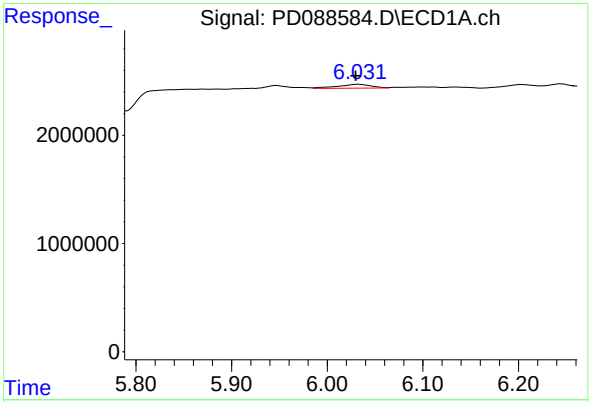
#10 gamma-Chlordane

R.T.: 5.947 min
Delta R.T.: -0.001 min
Response: 627612
Conc: 0.16 ng/ml



#10 gamma-Chlordane

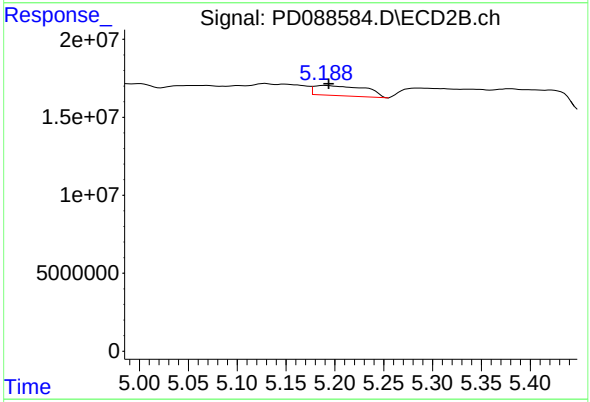
R.T.: 5.129 min
Delta R.T.: 0.000 min
Response: 9522313
Conc: 0.45 ng/ml



#11 alpha-Chlordane

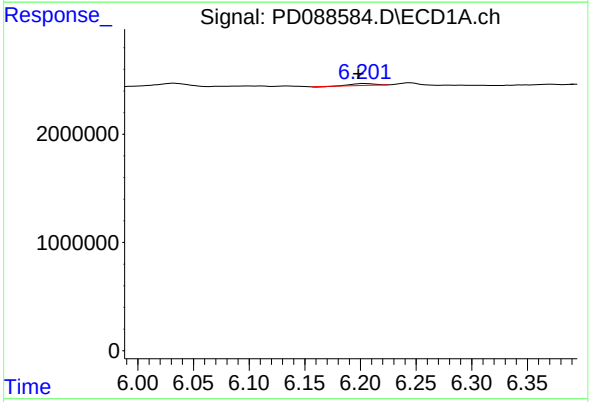
R.T.: 6.033 min
Delta R.T.: 0.003 min
Response: 889163
Conc: 0.22 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



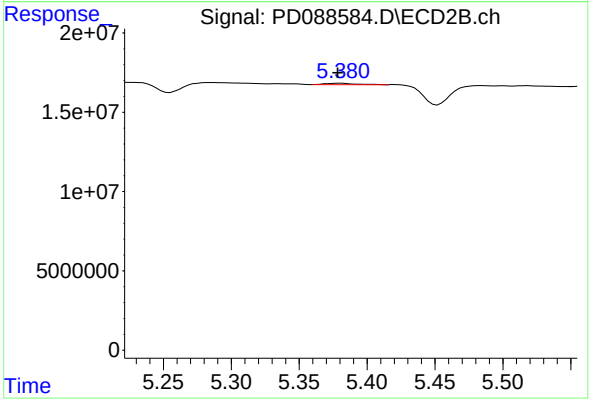
#11 alpha-Chlordane

R.T.: 5.190 min
Delta R.T.: -0.004 min
Response: 23598968
Conc: 1.14 ng/ml



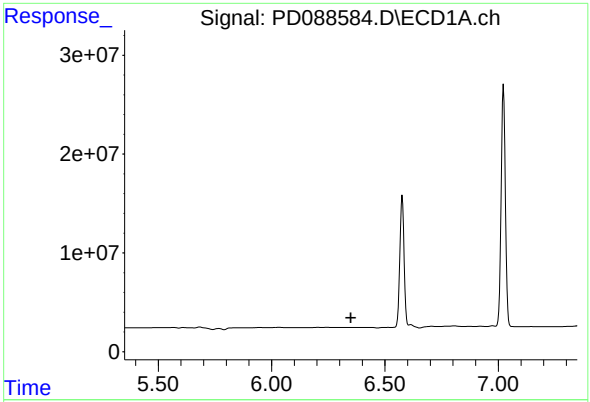
#12 4,4'-DDE

R.T.: 6.204 min
Delta R.T.: 0.006 min
Response: 249997
Conc: 0.07 ng/ml



#12 4,4'-DDE

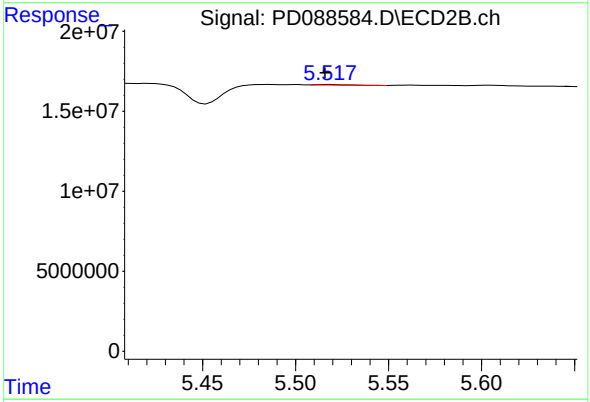
R.T.: 5.382 min
Delta R.T.: 0.003 min
Response: 1412926
Conc: 0.07 ng/ml



#13 Dieldrin

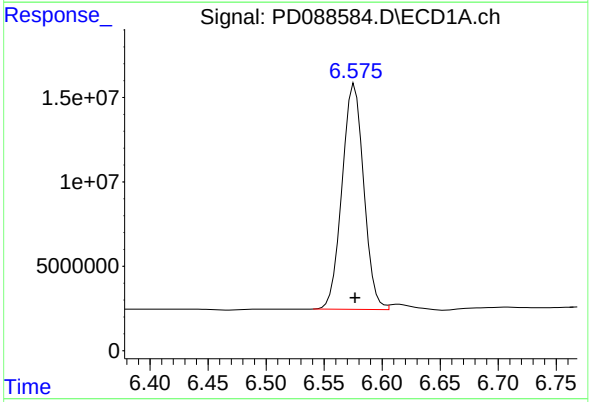
R.T.: 0.000 min
Exp R.T. : 6.350 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
PEM



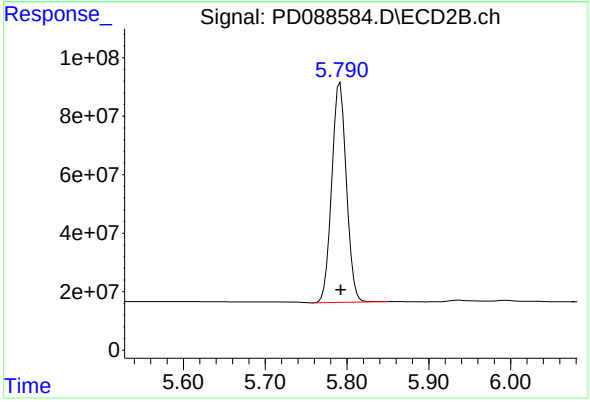
#13 Dieldrin

R.T.: 5.518 min
Delta R.T.: 0.002 min
Response: 346306
Conc: 0.02 ng/ml



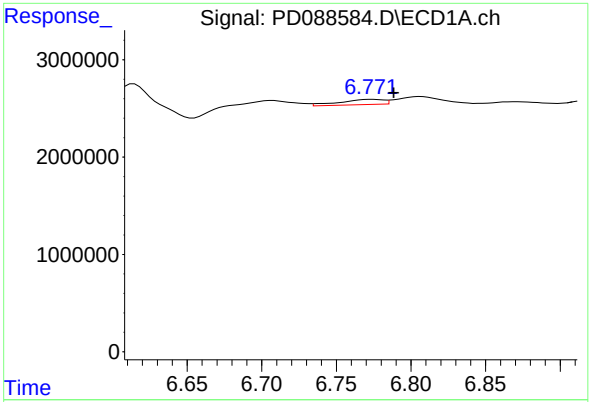
#14 Endrin

R.T.: 6.576 min
Delta R.T.: 0.000 min
Response: 173685082
Conc: 50.86 ng/ml



#14 Endrin

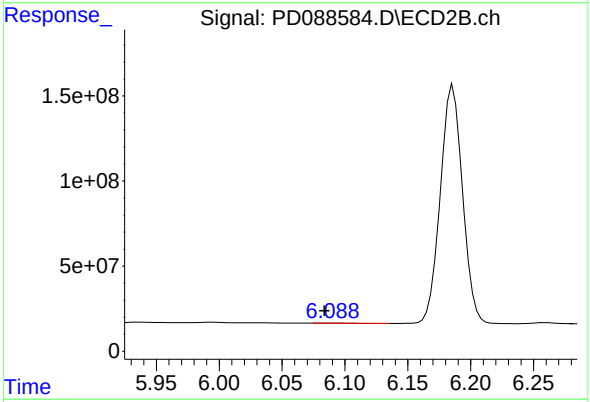
R.T.: 5.792 min
Delta R.T.: 0.000 min
Response: 934754801
Conc: 48.47 ng/ml



#15 Endosulfan II

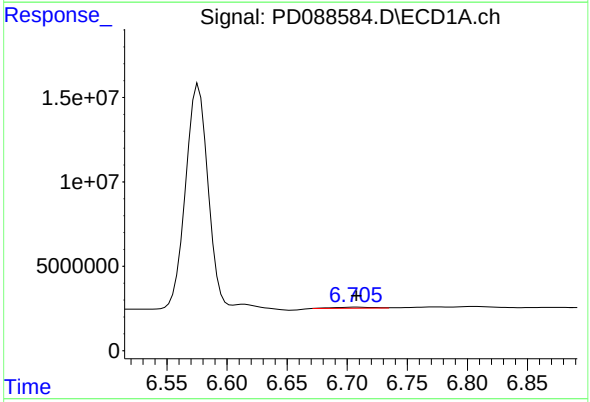
R.T.: 6.774 min
Delta R.T.: -0.014 min
Response: 1106128
Conc: 0.32 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



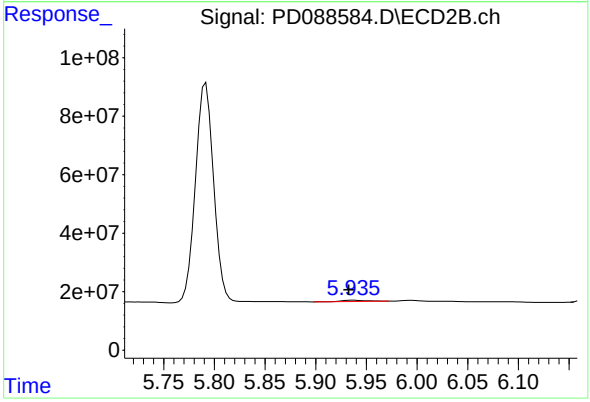
#15 Endosulfan II

R.T.: 6.088 min
Delta R.T.: 0.004 min
Response: 1689577
Conc: 0.09 ng/ml



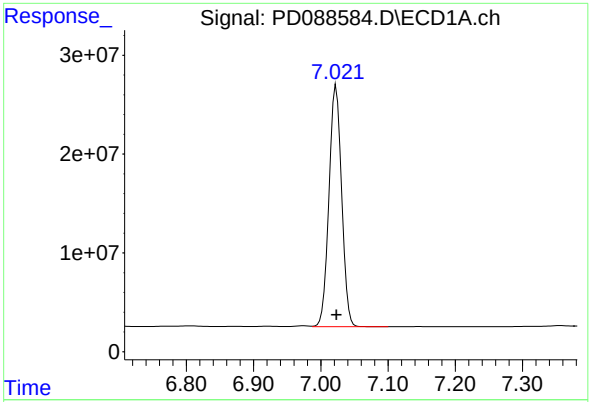
#16 4,4'-DDD

R.T.: 6.707 min
Delta R.T.: 0.000 min
Response: 1526198
Conc: 0.55 ng/ml



#16 4,4'-DDD

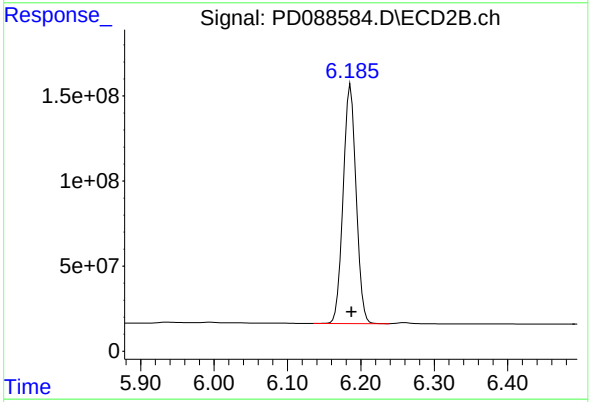
R.T.: 5.937 min
Delta R.T.: 0.004 min
Response: 6417679
Conc: 0.37 ng/ml



#17 4,4'-DDT

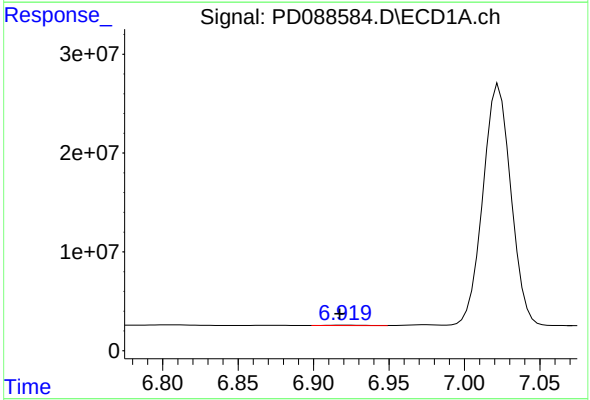
R.T.: 7.023 min
Delta R.T.: 0.000 min
Response: 315976412
Conc: 101.21 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



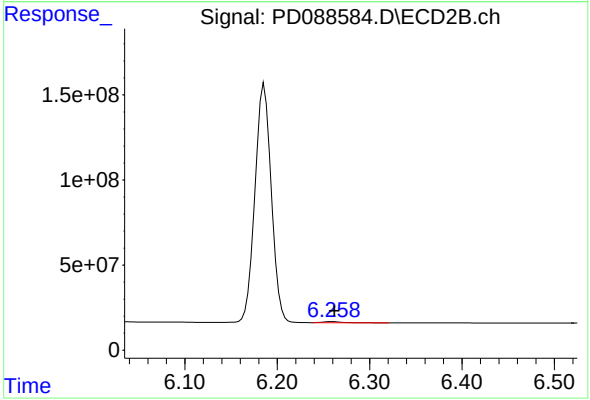
#17 4,4'-DDT

R.T.: 6.186 min
Delta R.T.: 0.000 min
Response: 1724841287
Conc: 95.10 ng/ml



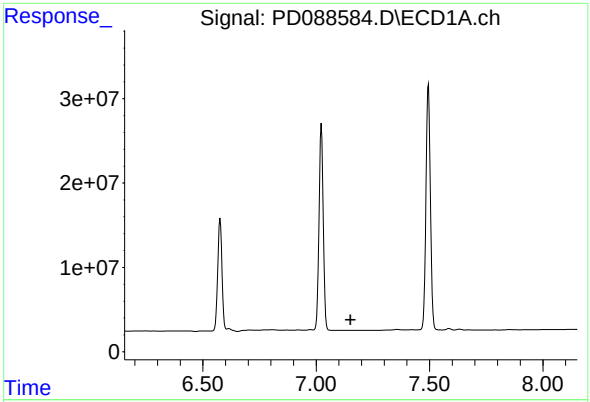
#18 Endrin aldehyde

R.T.: 6.921 min
Delta R.T.: 0.003 min
Response: 653659
Conc: 0.25 ng/ml



#18 Endrin aldehyde

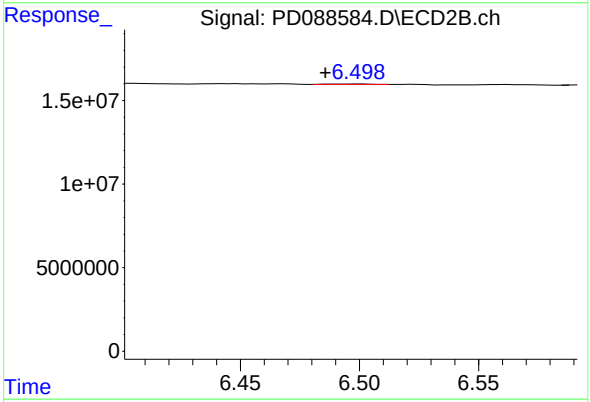
R.T.: 6.260 min
Delta R.T.: -0.002 min
Response: 9017476
Conc: 0.65 ng/ml



#19 Endosulfan Sulfate

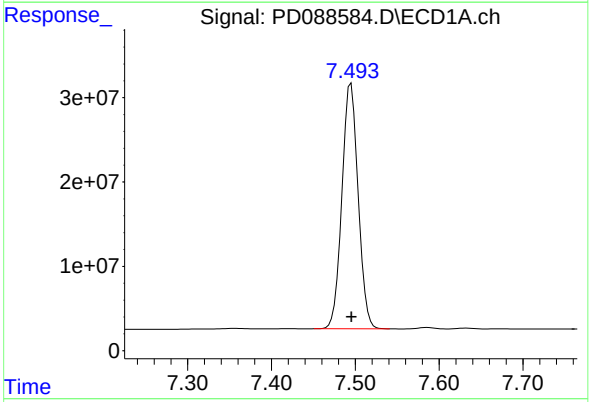
R.T.: 0.000 min
Exp R.T. : 7.152 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
PEM



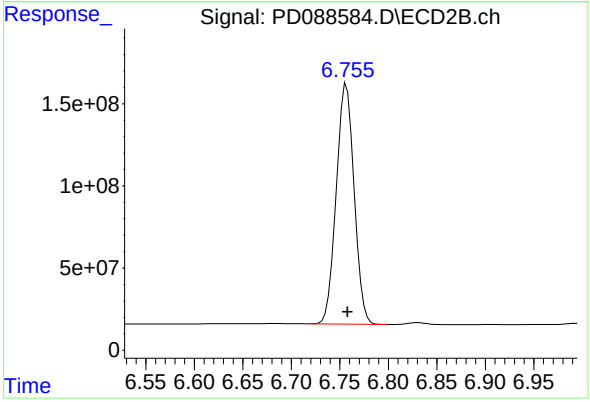
#19 Endosulfan Sulfate

R.T.: 6.500 min
Delta R.T.: 0.014 min
Response: 304472
Conc: 0.02 ng/ml



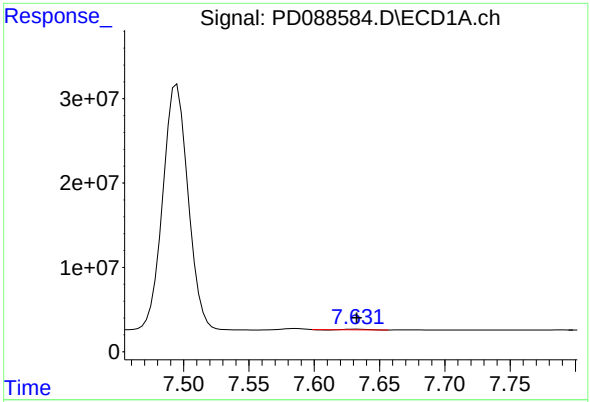
#20 Methoxychlor

R.T.: 7.495 min
Delta R.T.: 0.000 min
Response: 392097860
Conc: 234.71 ng/ml



#20 Methoxychlor

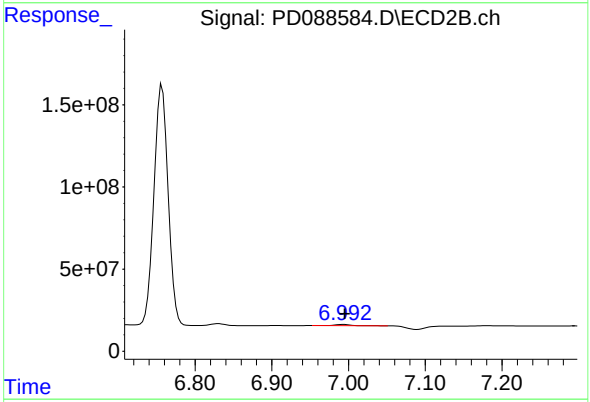
R.T.: 6.757 min
Delta R.T.: -0.001 min
Response: 1873132344
Conc: 195.63 ng/ml



#21 Endrin ketone

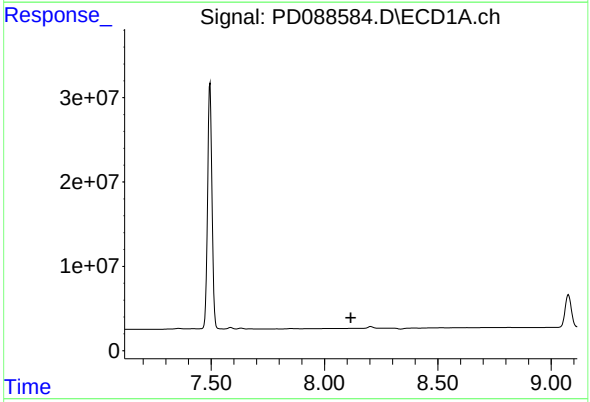
R.T.: 7.633 min
Delta R.T.: 0.000 min
Response: 609123
Conc: 0.18 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



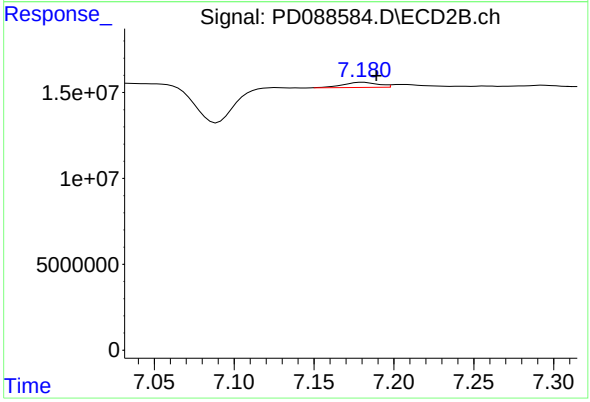
#21 Endrin ketone

R.T.: 6.993 min
Delta R.T.: -0.002 min
Response: 8681203
Conc: 0.45 ng/ml



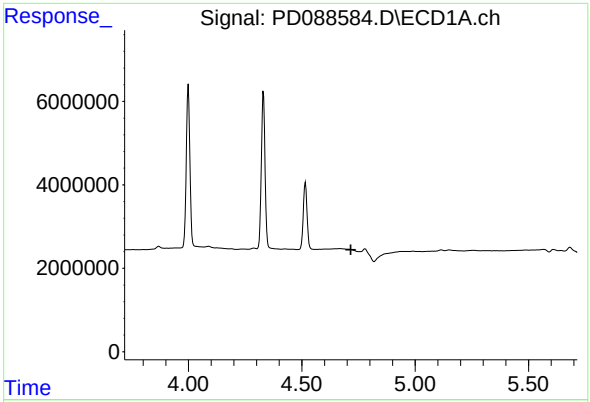
#22 Mirex

R.T.: 0.000 min
Exp R.T. : 8.117 min
Response: 0
Conc: N.D.



#22 Mirex

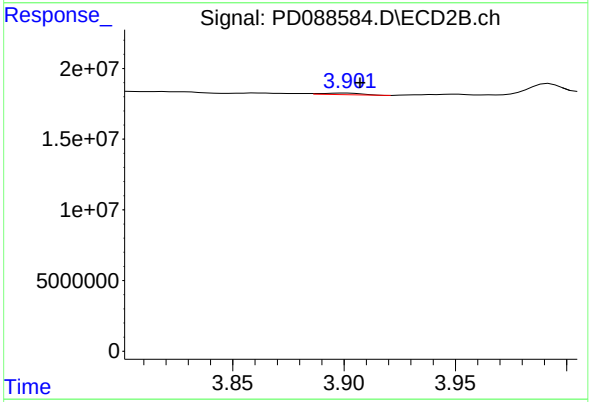
R.T.: 7.181 min
Delta R.T.: -0.008 min
Response: 4568201
Conc: 0.30 ng/ml



#23 Chlordane-1

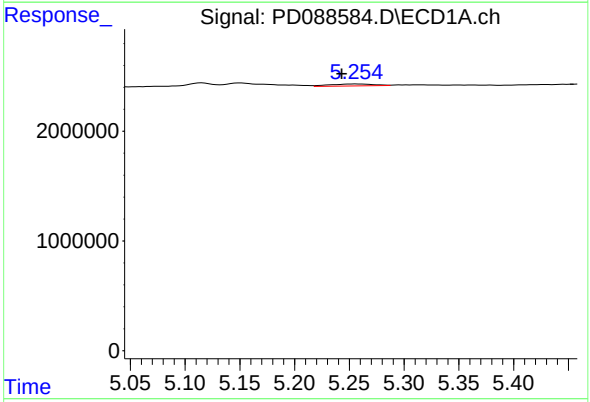
R.T.: 0.000 min
Exp R.T. : 4.716 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
PEM



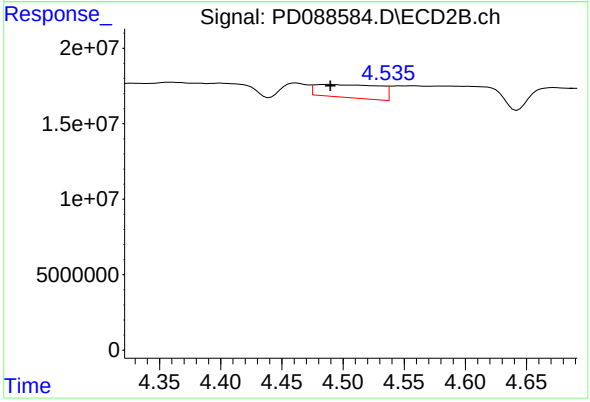
#23 Chlordane-1

R.T.: 3.901 min
Delta R.T.: -0.007 min
Response: 1325854
Conc: 1.60 ng/ml



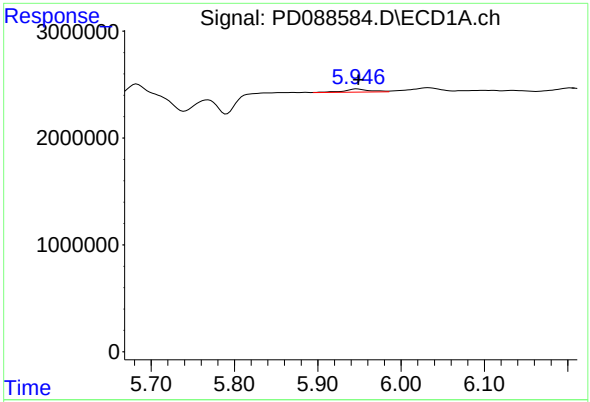
#24 Chlordane-2

R.T.: 5.255 min
Delta R.T.: 0.012 min
Response: 479963
Conc: 2.62 ng/ml



#24 Chlordane-2

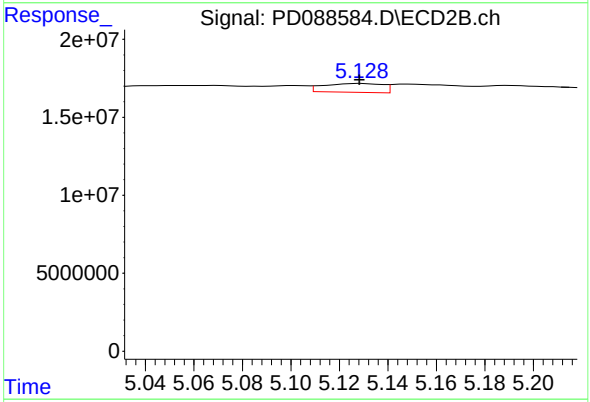
R.T.: 4.489 min
Delta R.T.: 0.000 min
Response: 31313096
Conc: 37.10 ng/ml



#25 Chlordane-3

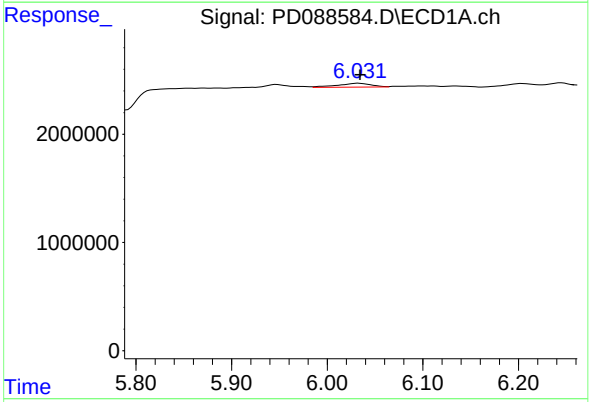
R.T.: 5.947 min
Delta R.T.: -0.001 min
Response: 627612
Conc: 0.85 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



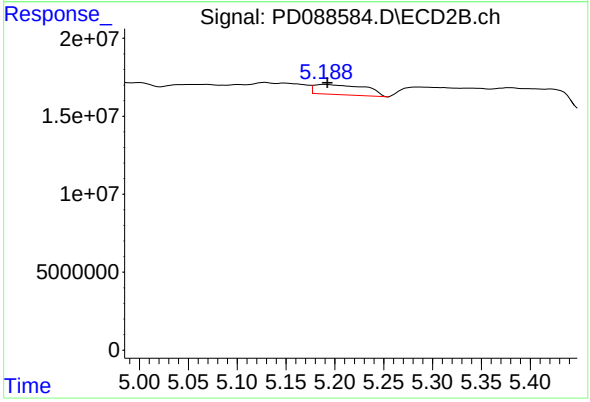
#25 Chlordane-3

R.T.: 5.129 min
Delta R.T.: 0.000 min
Response: 9522313
Conc: 3.61 ng/ml



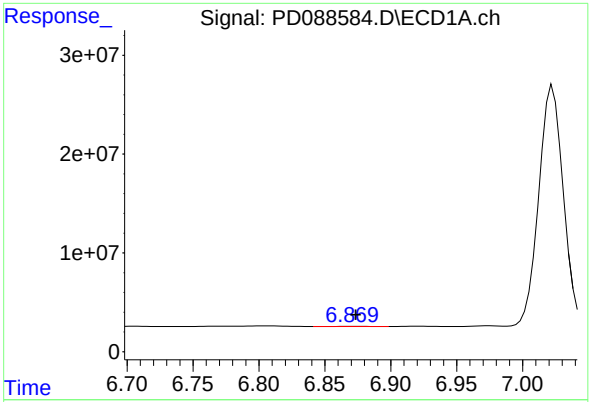
#26 Chlordane-4

R.T.: 6.033 min
Delta R.T.: -0.001 min
Response: 889163
Conc: 0.99 ng/ml



#26 Chlordane-4

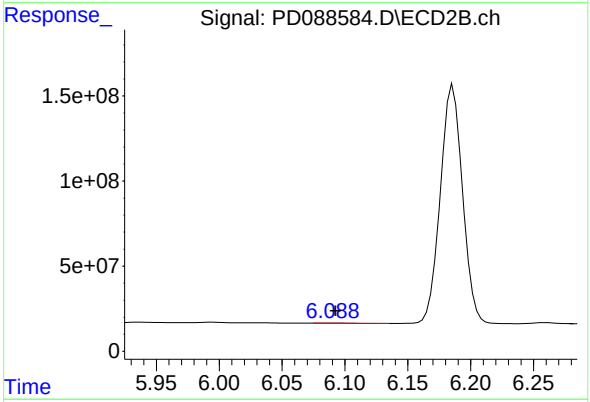
R.T.: 5.190 min
Delta R.T.: -0.003 min
Response: 23598968
Conc: 10.67 ng/ml



#27 Chlordane-5

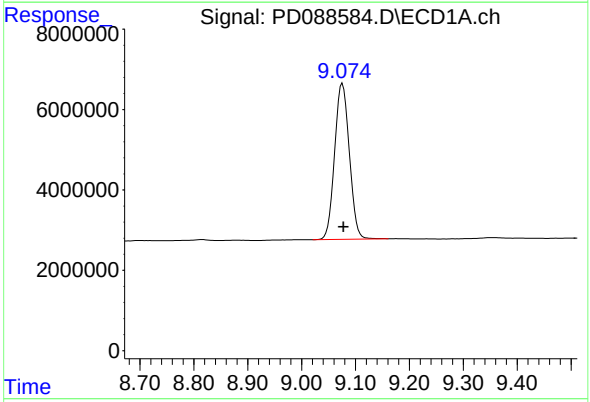
R.T.: 6.870 min
Delta R.T.: -0.003 min
Response: 294477
Conc: 1.94 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



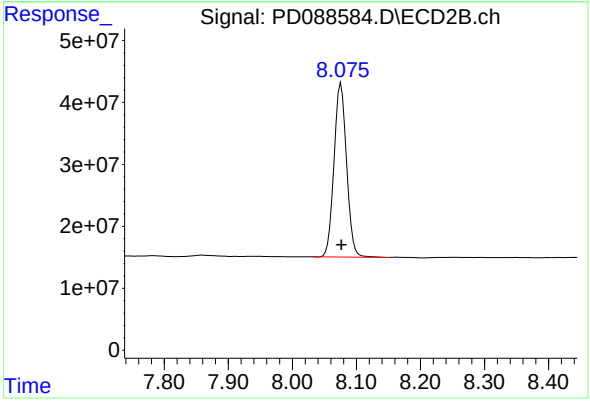
#27 Chlordane-5

R.T.: 6.088 min
Delta R.T.: -0.005 min
Response: 1689577
Conc: 1.69 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.076 min
Delta R.T.: -0.002 min
Response: 73616024
Conc: 21.51 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 382665210
Conc: 20.96 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088590.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 12:25
Operator : AR\AJ
Sample : PSTDICC005
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC005

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 12:51:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 12:41:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.550	2.882	11569731	87743326	5.347	5.800
28)	SA Decachlor...	9.077	8.076	19763753	110.7E6	5.775	6.062
	Target Compounds						
2)	A alpha-BHC	4.000	3.394	21526558	133.6E6	4.507	5.590
3)	MA gamma-BHC...	4.331	3.731	21657318	125.1E6	4.705	5.645
4)	MA Heptachlor	4.931	4.084	22768377	130.3E6	5.067	5.801
5)	MB Aldrin	5.273	4.370	21861853	125.7E6	4.975	5.734
6)	B beta-BHC	4.516	4.027	9793458	58294427	5.431	5.984
7)	B delta-BHC	4.764	4.264	20011375	126.5E6	4.735	5.674
8)	B Heptachlo...	5.693	4.874	22325883	117.3E6	5.636	5.903
9)	A Endosulfan I	6.076	5.249	19604836	111.8E6	5.210	5.892
10)	B gamma-Chl...	5.948	5.128	20203660	123.9E6	5.065	5.808
11)	B alpha-Chl...	6.029	5.192	20755365	120.4E6	5.181	5.840
12)	B 4,4'-DDE	6.198	5.378	17503651	121.5E6	4.877	5.812
13)	MA Dieldrin	6.349	5.515	19976132	122.7E6	4.979	5.830
14)	MA Endrin	6.577	5.792	17082110	114.2E6	5.002	5.923
15)	B Endosulfa...	6.788	6.083	18646050	108.1E6	5.415	5.903
16)	A 4,4'-DDD	6.707	5.932	13611843	100.6E6	4.887	5.786
17)	MA 4,4'-DDT	7.023	6.186	15258865	97907648	4.887	5.398
18)	B Endrin al...	6.917	6.261	14132008	84167396	5.489	6.043
19)	B Endosulfa...	7.152	6.485	17063513	105.5E6	5.327	5.940
20)	A Methoxychlor	7.496	6.758	9112300	55786563	5.455	5.826
21)	B Endrin ke...	7.633	6.995	17773939	114.1E6	5.192	5.898
22)	Mirex	8.117	7.189	15159249	92799571	5.834	6.104

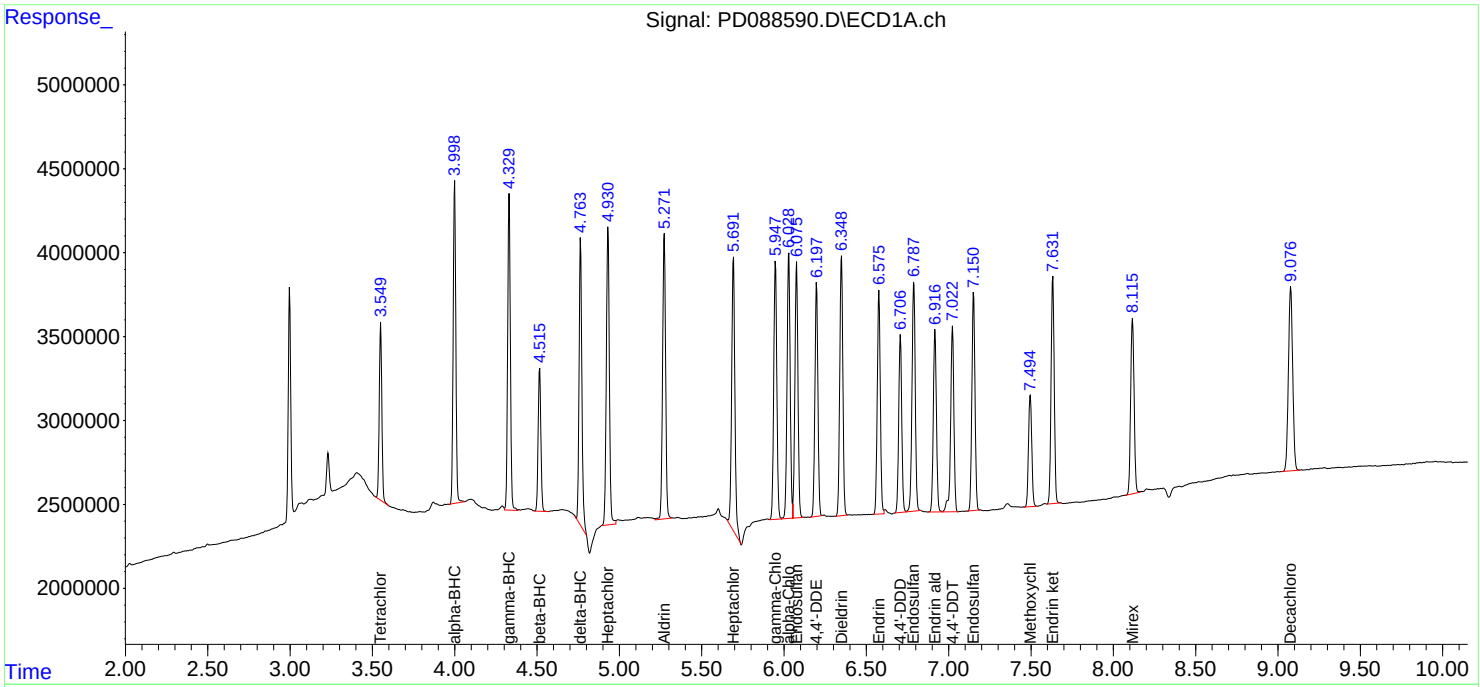
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

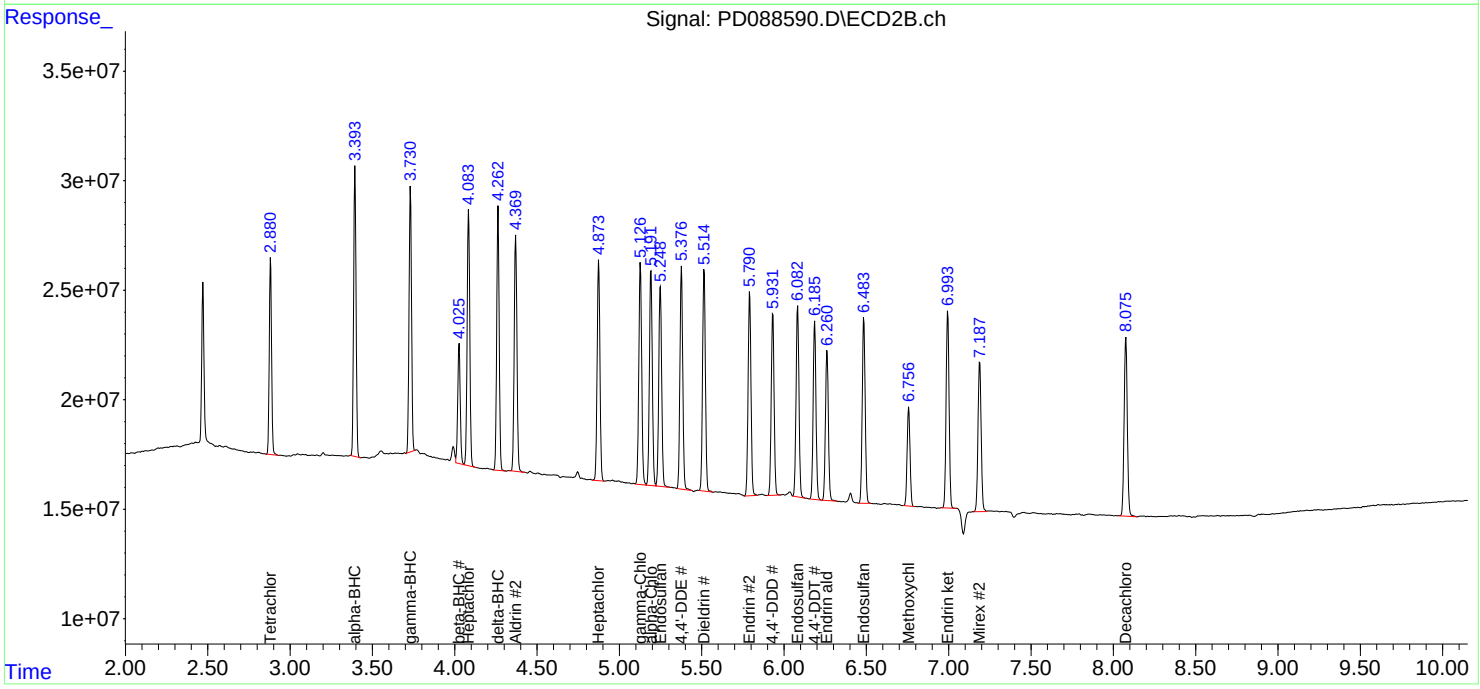
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088590.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 12:25
Operator : AR\AJ
Sample : PSTDICC005
Misc :
ALS Vial : 9 Sample Multiplier: 1

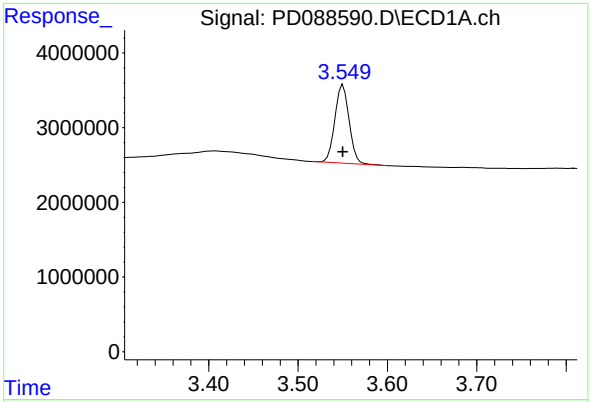
Instrument :
ECD_D
ClientSampleId :
PSTDICC005

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 19 12:51:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 12:41:43 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 0.25µm



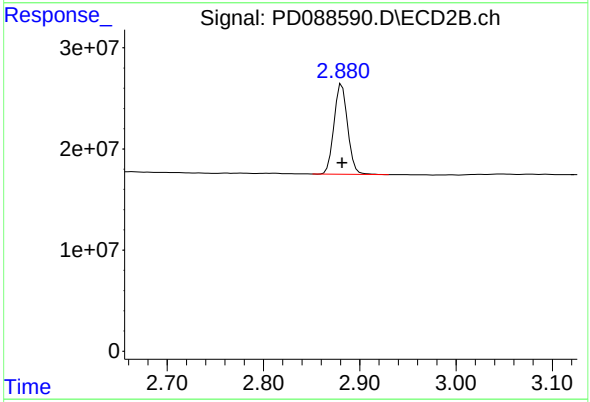




#1 Tetrachloro-m-xylene

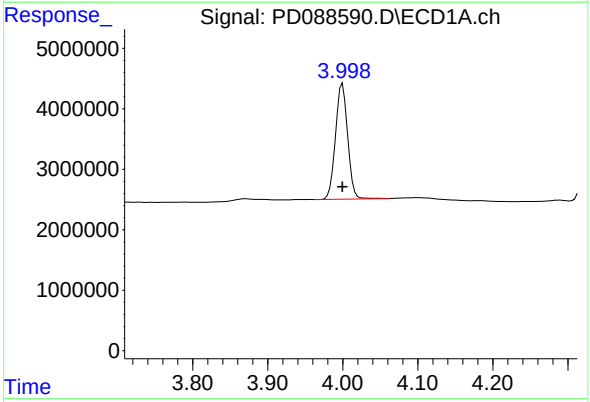
R.T.: 3.550 min
Delta R.T.: 0.000 min
Response: 11569731
Conc: 5.35 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005



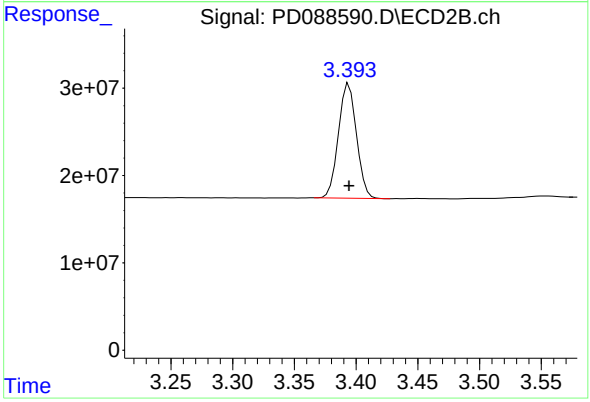
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 87743326
Conc: 5.80 ng/ml



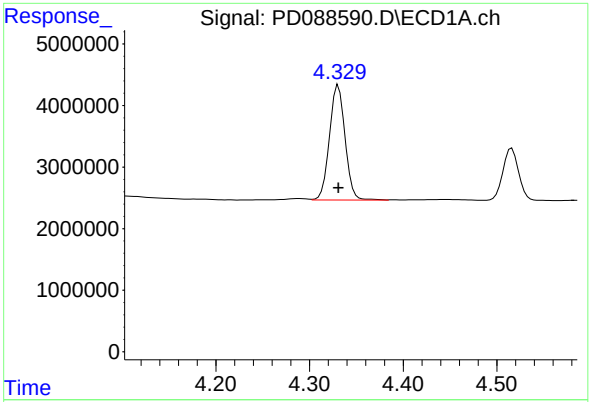
#2 alpha-BHC

R.T.: 4.000 min
Delta R.T.: 0.000 min
Response: 21526558
Conc: 4.51 ng/ml



#2 alpha-BHC

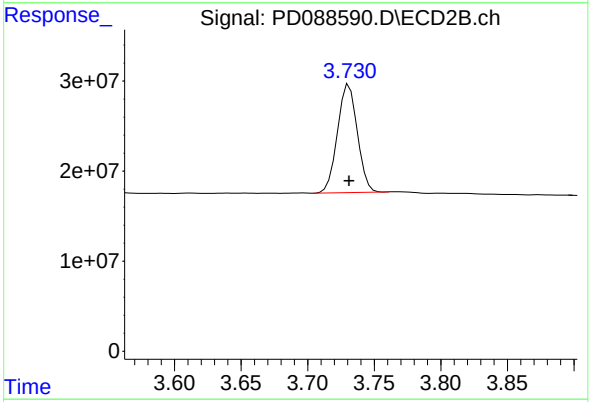
R.T.: 3.394 min
Delta R.T.: 0.000 min
Response: 133631486
Conc: 5.59 ng/ml



#3 gamma-BHC (Lindane)

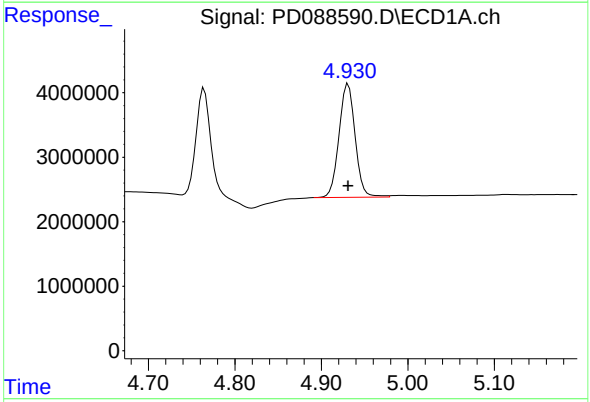
R.T.: 4.331 min
Delta R.T.: 0.000 min
Response: 21657318
Conc: 4.71 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005



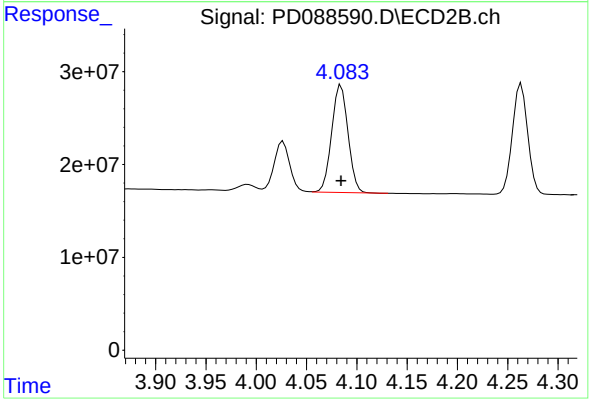
#3 gamma-BHC (Lindane)

R.T.: 3.731 min
Delta R.T.: 0.000 min
Response: 125133932
Conc: 5.65 ng/ml



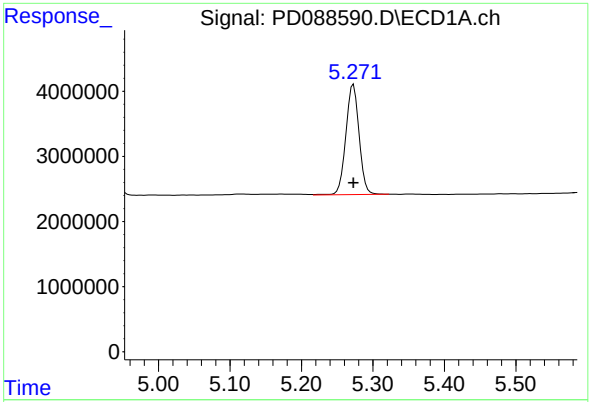
#4 Heptachlor

R.T.: 4.931 min
Delta R.T.: 0.000 min
Response: 22768377
Conc: 5.07 ng/ml



#4 Heptachlor

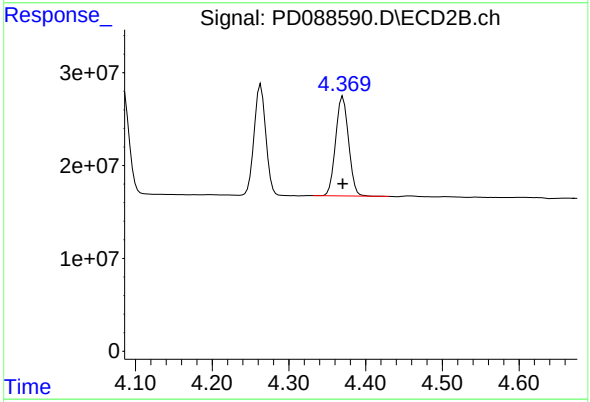
R.T.: 4.084 min
Delta R.T.: 0.000 min
Response: 130254372
Conc: 5.80 ng/ml



#5 Aldrin

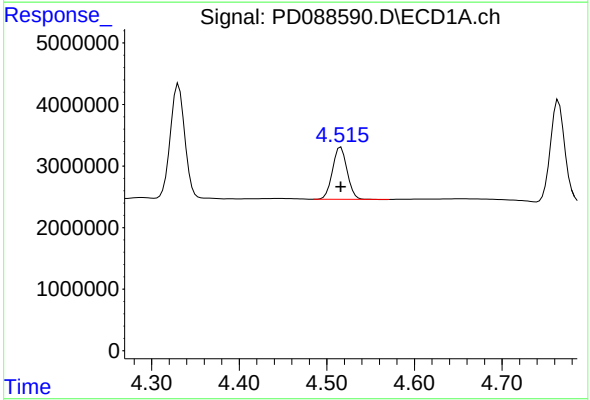
R.T.: 5.273 min
Delta R.T.: 0.000 min
Response: 21861853
Conc: 4.97 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005



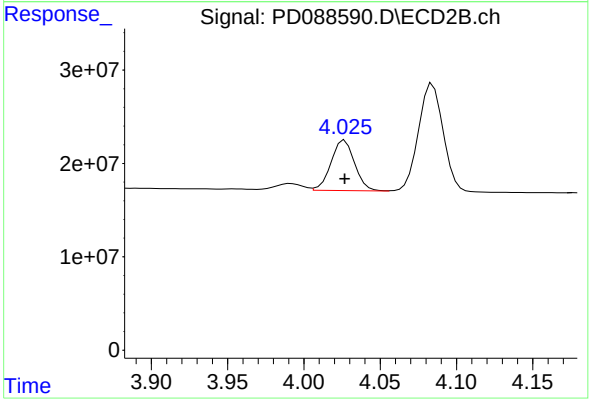
#5 Aldrin

R.T.: 4.370 min
Delta R.T.: 0.000 min
Response: 125739574
Conc: 5.73 ng/ml



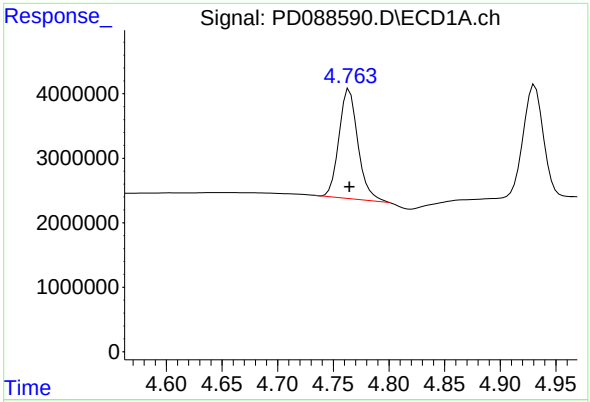
#6 beta-BHC

R.T.: 4.516 min
Delta R.T.: 0.000 min
Response: 9793458
Conc: 5.43 ng/ml



#6 beta-BHC

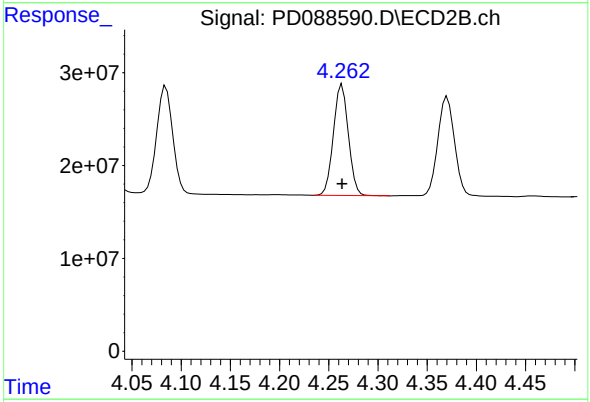
R.T.: 4.027 min
Delta R.T.: 0.000 min
Response: 58294427
Conc: 5.98 ng/ml



#7 delta-BHC

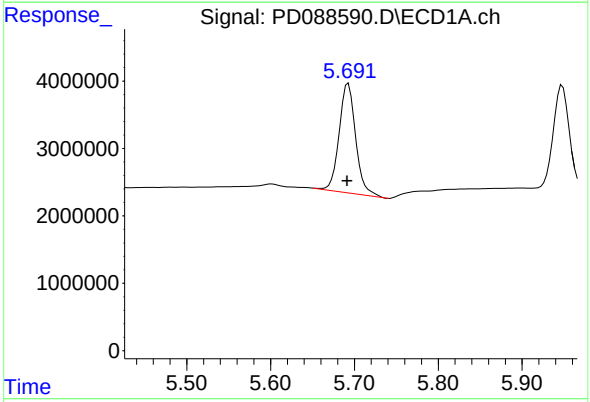
R.T.: 4.764 min
Delta R.T.: 0.000 min
Response: 20011375
Conc: 4.74 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005



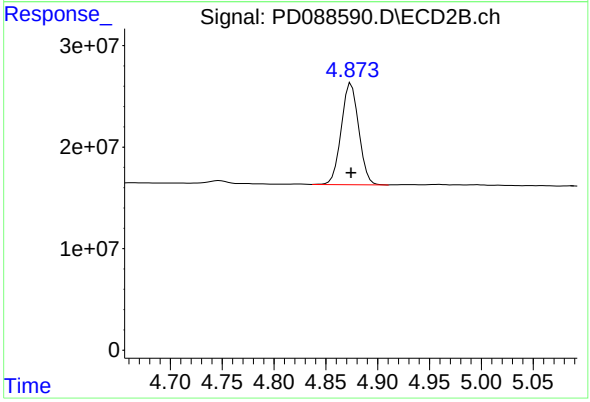
#7 delta-BHC

R.T.: 4.264 min
Delta R.T.: 0.000 min
Response: 126492727
Conc: 5.67 ng/ml



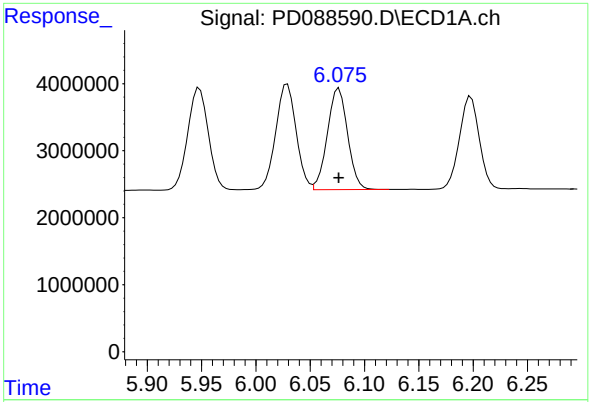
#8 Heptachlor epoxide

R.T.: 5.693 min
Delta R.T.: 0.001 min
Response: 22325883
Conc: 5.64 ng/ml



#8 Heptachlor epoxide

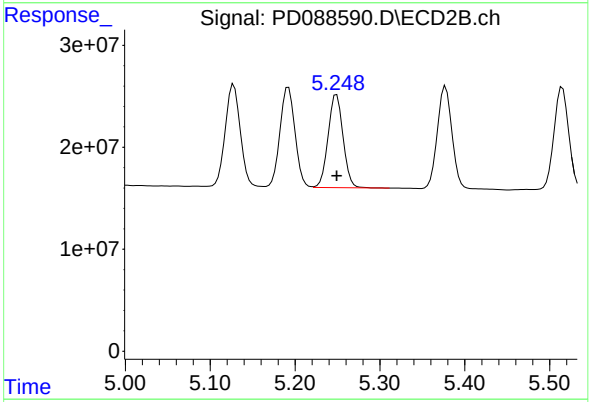
R.T.: 4.874 min
Delta R.T.: 0.000 min
Response: 117295268
Conc: 5.90 ng/ml



#9 Endosulfan I

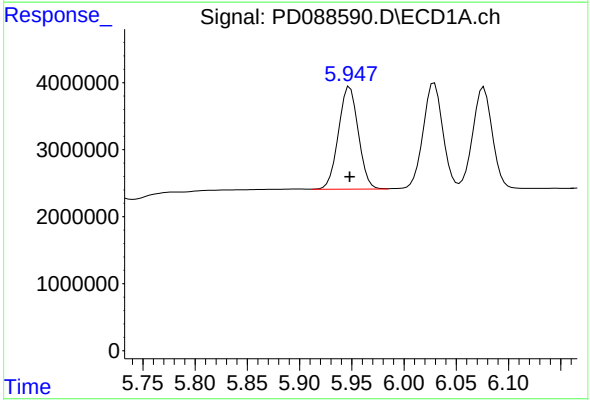
R.T.: 6.076 min
Delta R.T.: 0.000 min
Response: 19604836
Conc: 5.21 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005



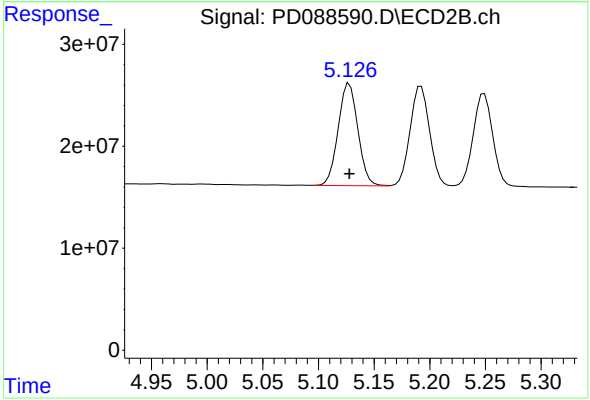
#9 Endosulfan I

R.T.: 5.249 min
Delta R.T.: 0.000 min
Response: 111827302
Conc: 5.89 ng/ml



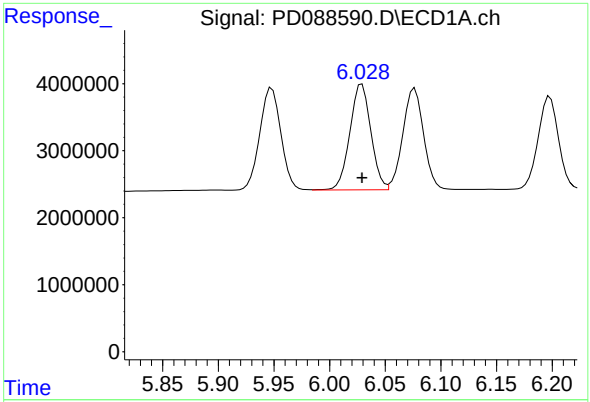
#10 gamma-Chlordane

R.T.: 5.948 min
Delta R.T.: 0.000 min
Response: 20203660
Conc: 5.06 ng/ml



#10 gamma-Chlordane

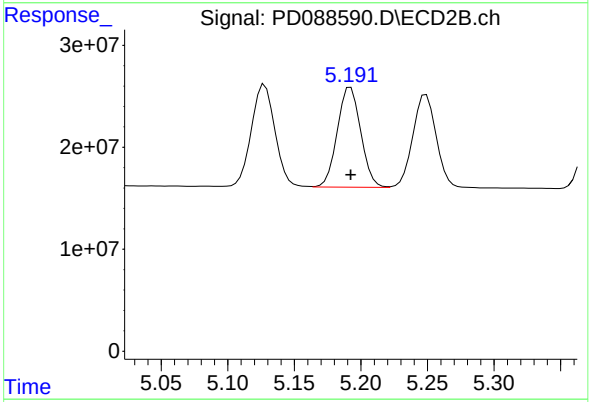
R.T.: 5.128 min
Delta R.T.: 0.000 min
Response: 123892575
Conc: 5.81 ng/ml



#11 alpha-Chlordane

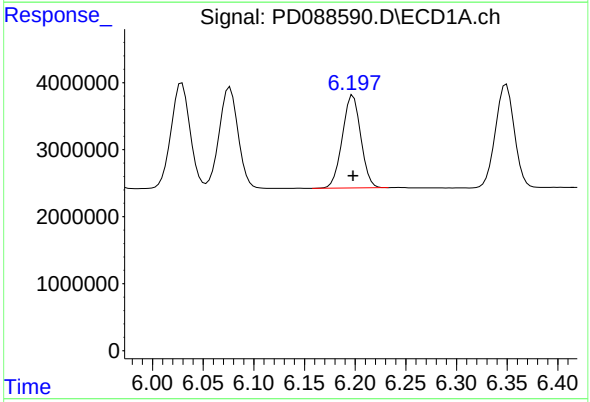
R.T.: 6.029 min
Delta R.T.: 0.000 min
Response: 20755365
Conc: 5.18 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005



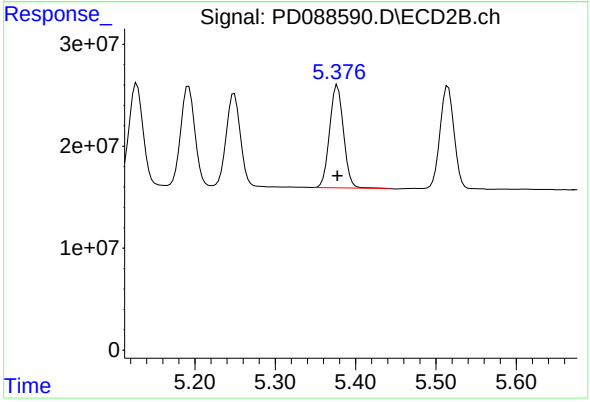
#11 alpha-Chlordane

R.T.: 5.192 min
Delta R.T.: 0.000 min
Response: 120444919
Conc: 5.84 ng/ml



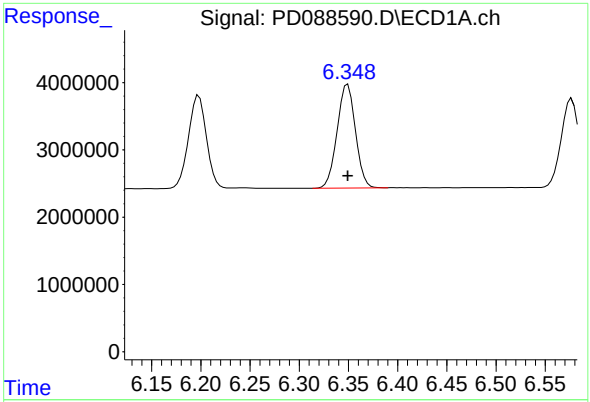
#12 4,4'-DDE

R.T.: 6.198 min
Delta R.T.: 0.000 min
Response: 17503651
Conc: 4.88 ng/ml



#12 4,4'-DDE

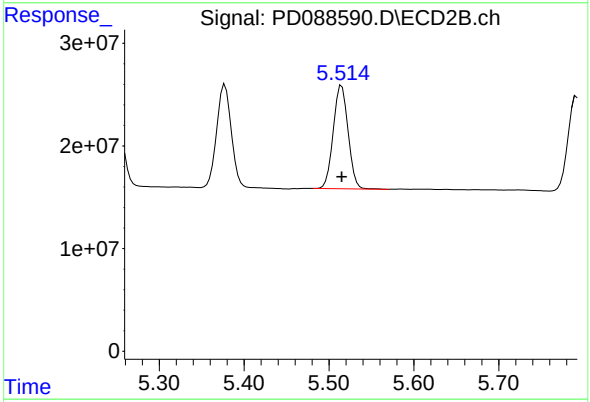
R.T.: 5.378 min
Delta R.T.: 0.000 min
Response: 121489802
Conc: 5.81 ng/ml



#13 Dieldrin

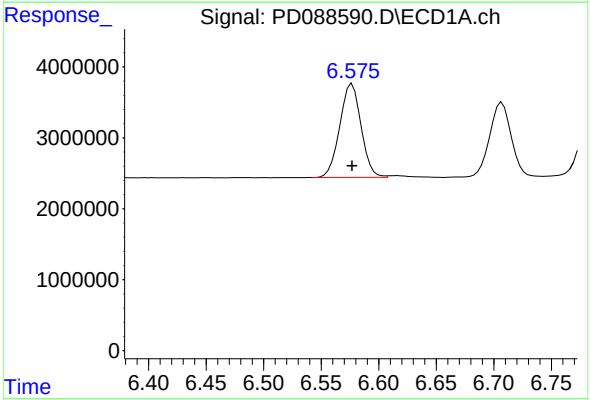
R.T.: 6.349 min
Delta R.T.: 0.000 min
Response: 19976132
Conc: 4.98 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005



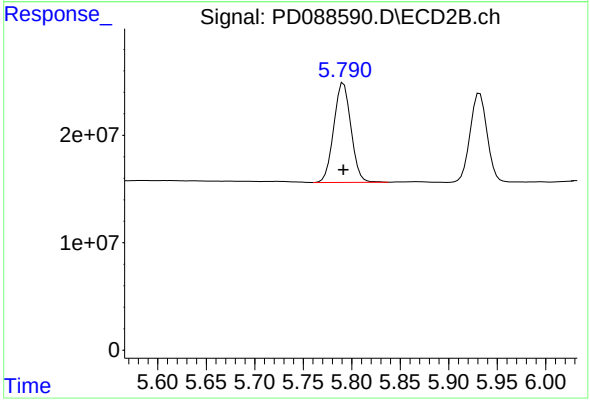
#13 Dieldrin

R.T.: 5.515 min
Delta R.T.: 0.000 min
Response: 122680748
Conc: 5.83 ng/ml



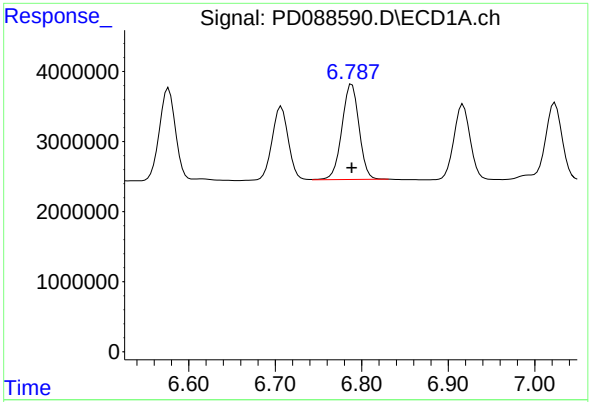
#14 Endrin

R.T.: 6.577 min
Delta R.T.: 0.000 min
Response: 17082110
Conc: 5.00 ng/ml



#14 Endrin

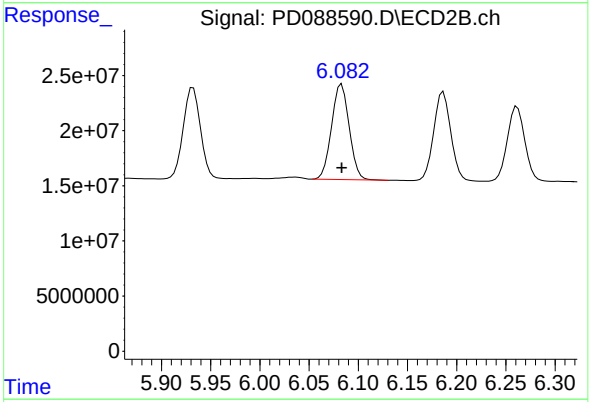
R.T.: 5.792 min
Delta R.T.: 0.000 min
Response: 114212828
Conc: 5.92 ng/ml



#15 Endosulfan II

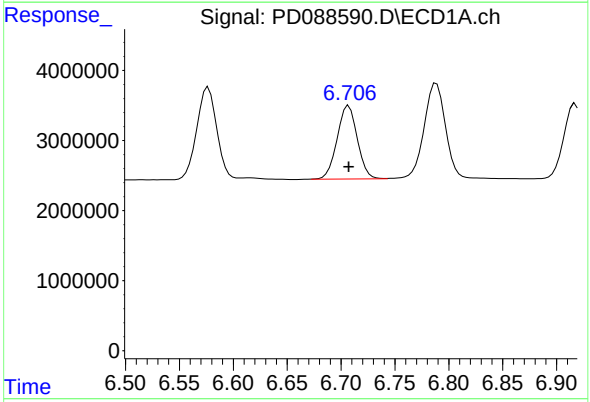
R.T.: 6.788 min
Delta R.T.: 0.000 min
Response: 18646050
Conc: 5.41 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005



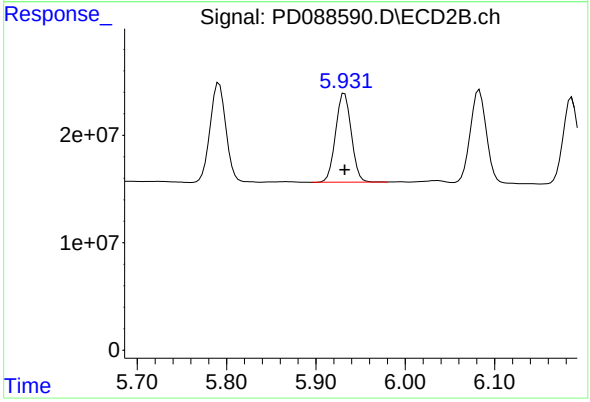
#15 Endosulfan II

R.T.: 6.083 min
Delta R.T.: 0.000 min
Response: 108145535
Conc: 5.90 ng/ml



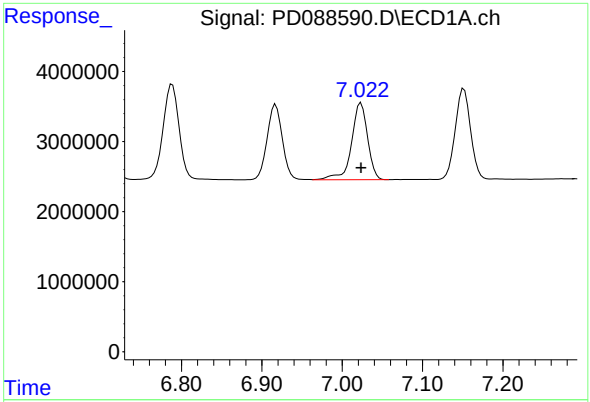
#16 4,4'-DDD

R.T.: 6.707 min
Delta R.T.: 0.000 min
Response: 13611843
Conc: 4.89 ng/ml



#16 4,4'-DDD

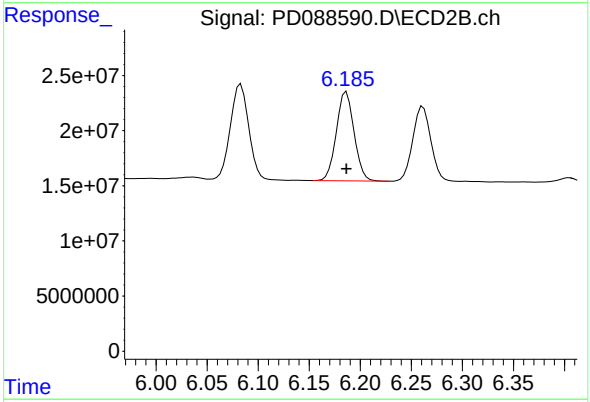
R.T.: 5.932 min
Delta R.T.: 0.000 min
Response: 100635659
Conc: 5.79 ng/ml



#17 4,4'-DDT

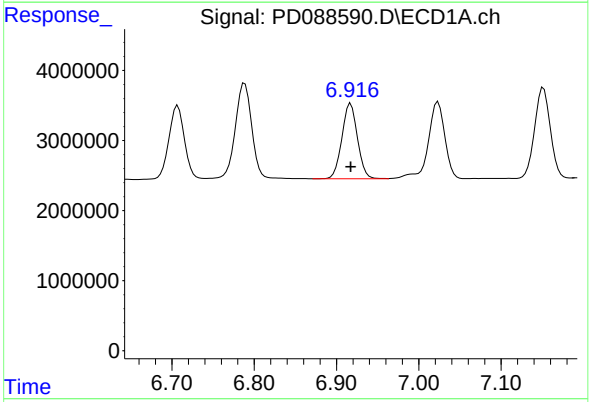
R.T.: 7.023 min
Delta R.T.: 0.000 min
Response: 15258865
Conc: 4.89 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005



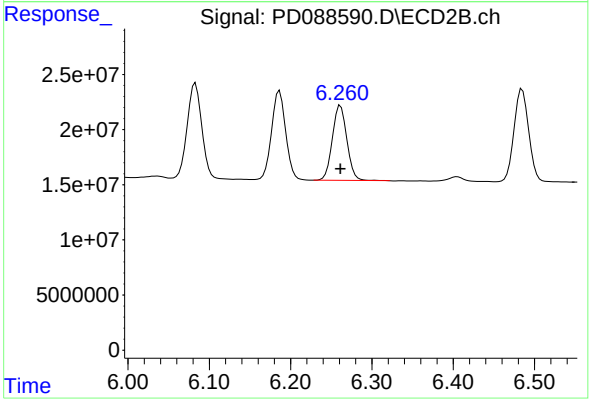
#17 4,4'-DDT

R.T.: 6.186 min
Delta R.T.: 0.000 min
Response: 97907648
Conc: 5.40 ng/ml



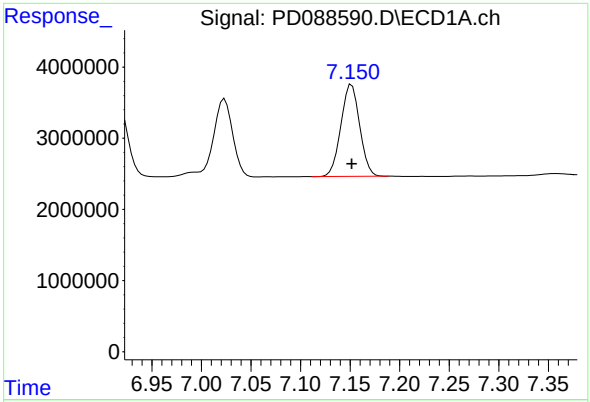
#18 Endrin aldehyde

R.T.: 6.917 min
Delta R.T.: 0.000 min
Response: 14132008
Conc: 5.49 ng/ml



#18 Endrin aldehyde

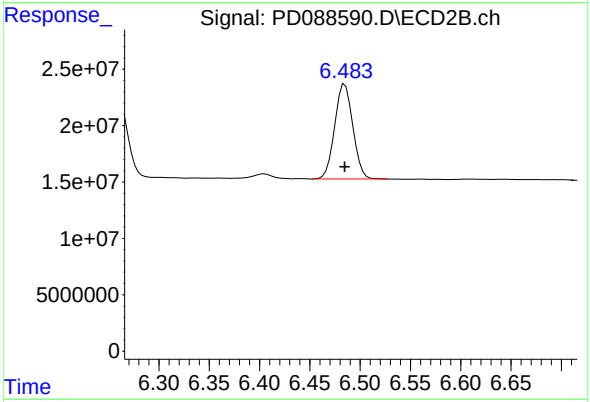
R.T.: 6.261 min
Delta R.T.: 0.000 min
Response: 84167396
Conc: 6.04 ng/ml



#19 Endosulfan Sulfate

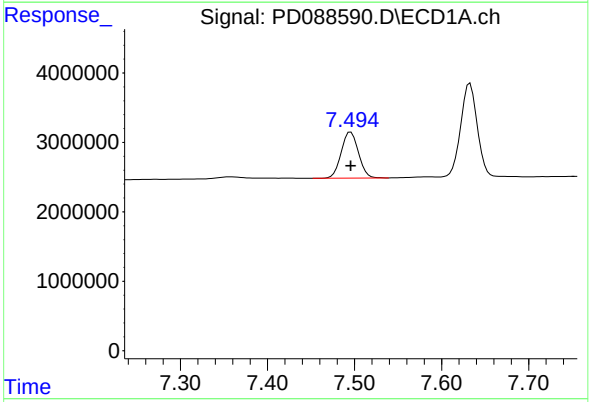
R.T.: 7.152 min
Delta R.T.: 0.000 min
Response: 17063513
Conc: 5.33 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005



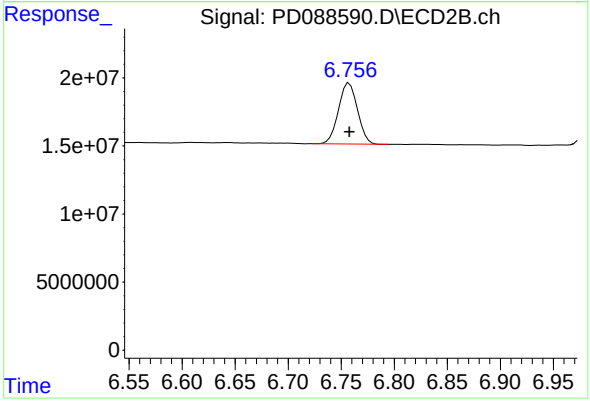
#19 Endosulfan Sulfate

R.T.: 6.485 min
Delta R.T.: 0.000 min
Response: 105463408
Conc: 5.94 ng/ml



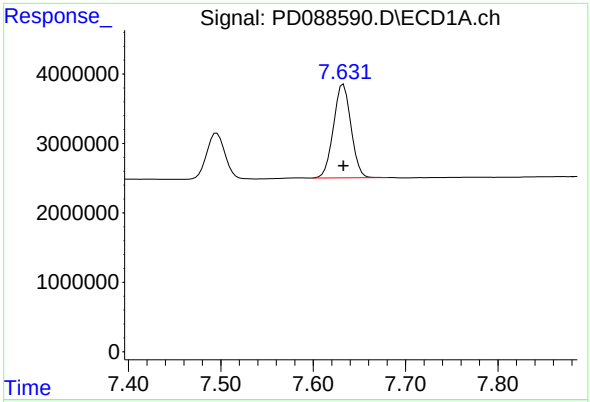
#20 Methoxychlor

R.T.: 7.496 min
Delta R.T.: 0.000 min
Response: 9112300
Conc: 5.45 ng/ml



#20 Methoxychlor

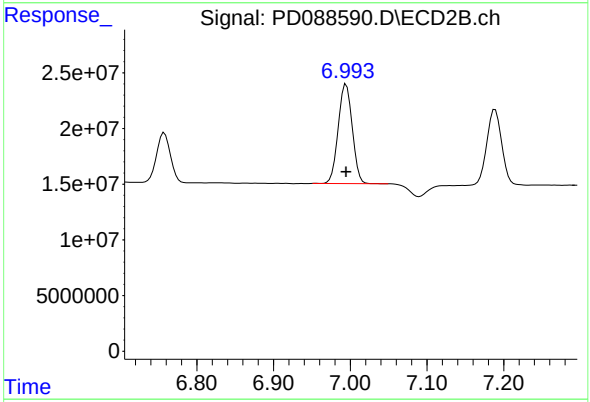
R.T.: 6.758 min
Delta R.T.: 0.000 min
Response: 55786563
Conc: 5.83 ng/ml



#21 Endrin ketone

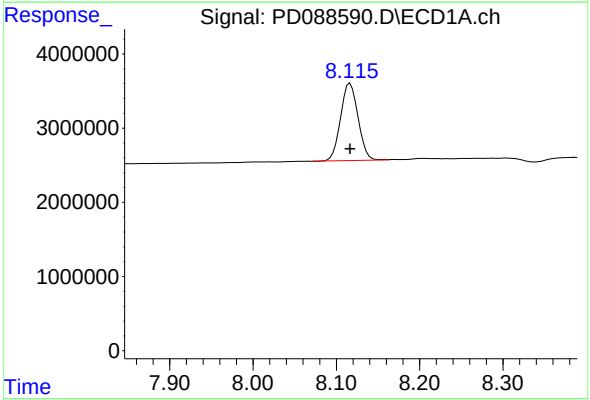
R.T.: 7.633 min
Delta R.T.: 0.000 min
Response: 17773939
Conc: 5.19 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005



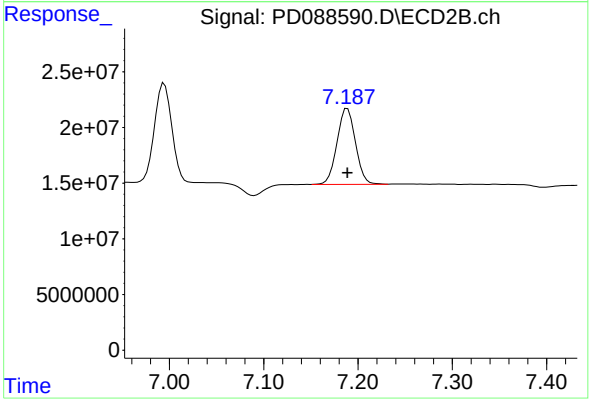
#21 Endrin ketone

R.T.: 6.995 min
Delta R.T.: 0.000 min
Response: 114101930
Conc: 5.90 ng/ml



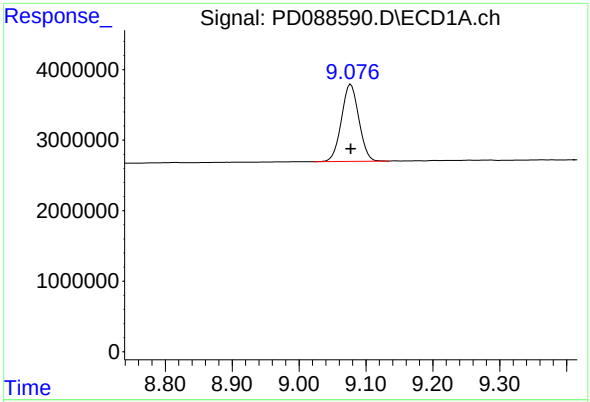
#22 Mirex

R.T.: 8.117 min
Delta R.T.: 0.000 min
Response: 15159249
Conc: 5.83 ng/ml



#22 Mirex

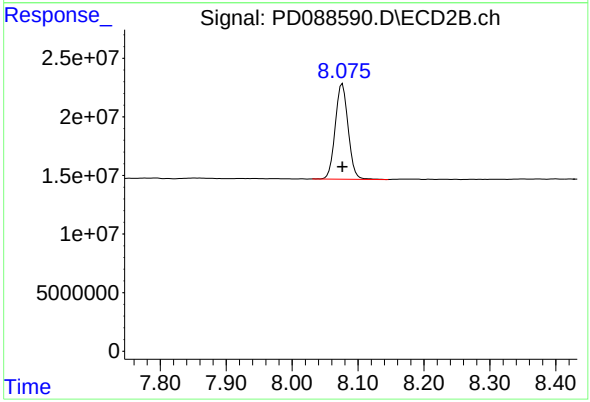
R.T.: 7.189 min
Delta R.T.: 0.000 min
Response: 92799571
Conc: 6.10 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.077 min
Delta R.T.: 0.000 min
Response: 19763753
Conc: 5.77 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDICC005



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 110669719
Conc: 6.06 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088605.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 15:49
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PEM

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:39:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	System Monitoring Compounds							
1)	SA Tetrachlo...	3.551	2.882	44529897	323.1E6	20.580	21.359	
28)	SA Decachlor...	9.077	8.076	75939709	407.9E6	22.189	22.346	
	Target Compounds							
2)	A alpha-BHC	4.000	3.394	44714607	265.9E6	9.361	11.124	
3)	MA gamma-BHC...	4.331	3.731	44937590	248.0E6	9.763	11.191	
4)	MA Heptachlor	4.932	4.083	435248	904651	0.097	0.040	#
5)	MB Aldrin	5.257f	4.365	318610	6267190	0.073	0.286	#
6)	B beta-BHC	4.516	4.027	18943064	112.1E6	10.506	11.507	
7)	B delta-BHC	4.779	4.269	1953688	934588	0.462	0.042	#
8)	B Heptachlo...	5.684	4.876	4407413	97167	1.110	0.005	#
10)	B gamma-Chl...	5.948	5.128	596748	14104533	0.150	0.661	#
11)	B alpha-Chl...	6.037	5.191	689780	29493160	0.172	1.430	#
12)	B 4,4'-DDE	6.201	5.383	216131	1109859	0.060	0.053	
14)	MA Endrin	6.577	5.792	179.6E6	988.7E6	52.576	51.271	
15)	B Endosulfa...	6.775	6.089	1004506	1155723	0.292	0.063	#
16)	A 4,4'-DDD	6.706	5.935	2490828	5710552	0.894	0.328	#
17)	MA 4,4'-DDT	7.024	6.186	325.1E6	1808.6E6	104.124	99.719	
18)	B Endrin al...	6.922	6.260	683873	9143953	0.266	0.656	#
19)	B Endosulfa...	0.000	6.498	0	286426	N.D.	0.016	#
20)	A Methoxychlor	7.497	6.757	400.1E6	1969.4E6	239.500	205.688	
21)	B Endrin ke...	7.633	6.994	471706	10632226	0.138	0.550	#
22)	Mirex	8.120	7.181	100440	7560536	0.039	0.497	#
23)	Chlordane-1	0.000	3.903	0	1221460	N.D.	1.478	#
24)	Chlordane-2	5.257	4.491	318610	29020045	1.736	34.384	#
25)	Chlordane-3	5.948	5.128	596748	14104533	0.807	5.349	#
26)	Chlordane-4	6.037	5.191	689780	29493160	0.770	13.330	#
27)	Chlordane-5	6.869	6.089	304540	1155723	2.002	1.155	#

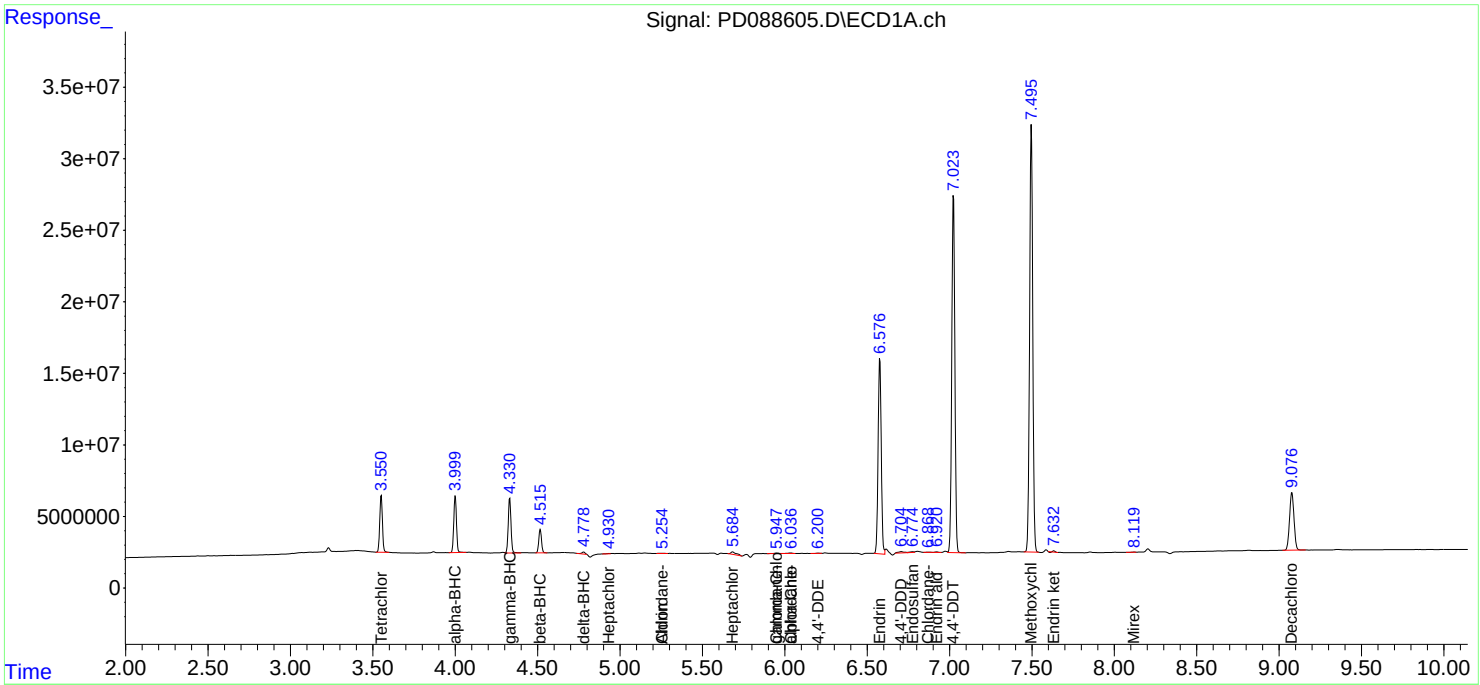
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

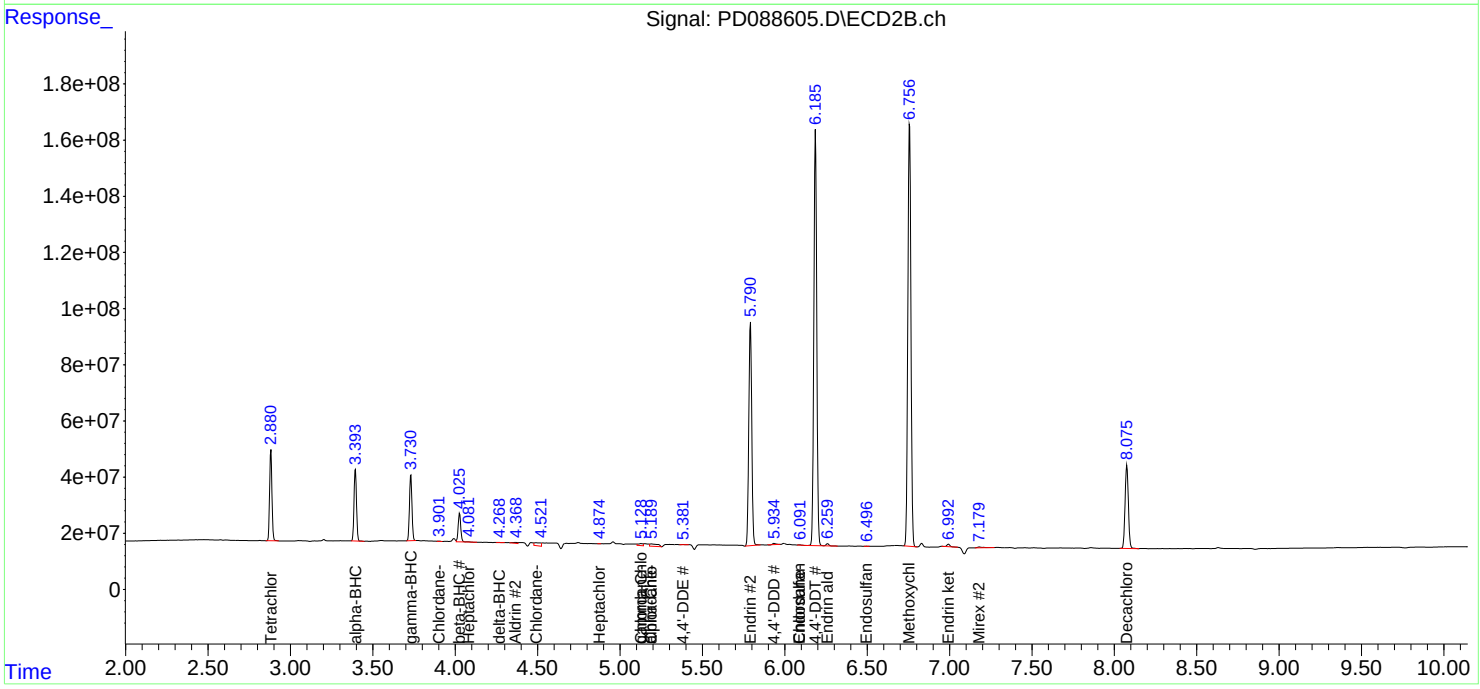
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088605.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 15:49
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

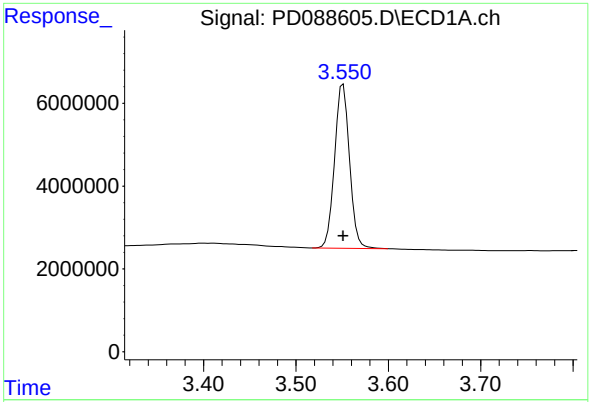
Instrument :
ECD_D
ClientSampleId :
PEM

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:39:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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



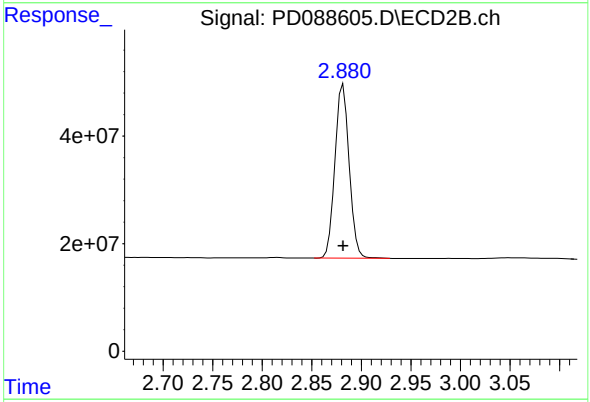




#1 Tetrachloro-m-xylene

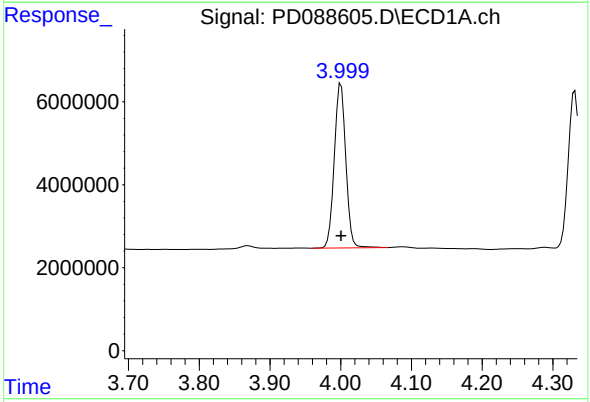
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 44529897
Conc: 20.58 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



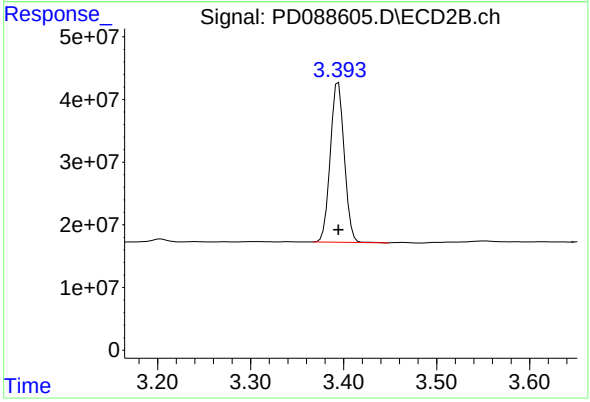
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 323089514
Conc: 21.36 ng/ml



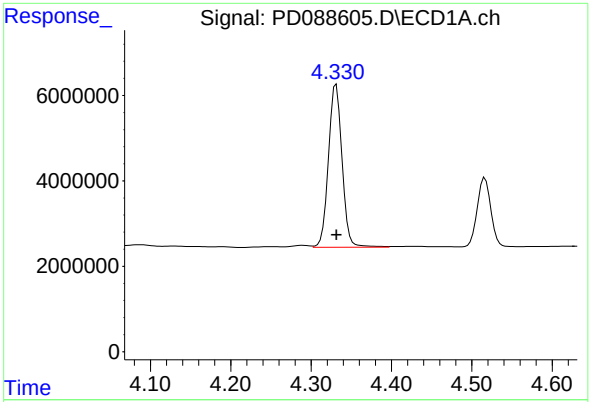
#2 alpha-BHC

R.T.: 4.000 min
Delta R.T.: 0.000 min
Response: 44714607
Conc: 9.36 ng/ml



#2 alpha-BHC

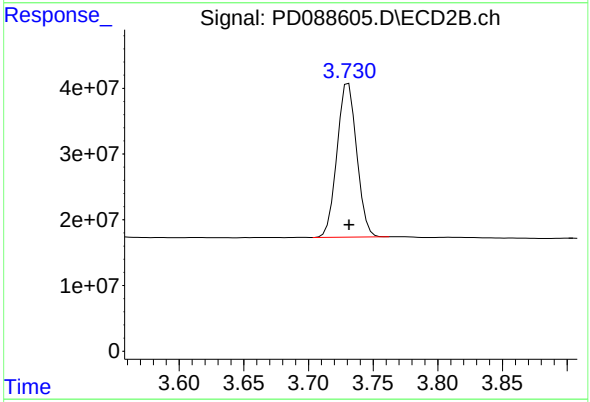
R.T.: 3.394 min
Delta R.T.: 0.000 min
Response: 265895140
Conc: 11.12 ng/ml



#3 gamma-BHC (Lindane)

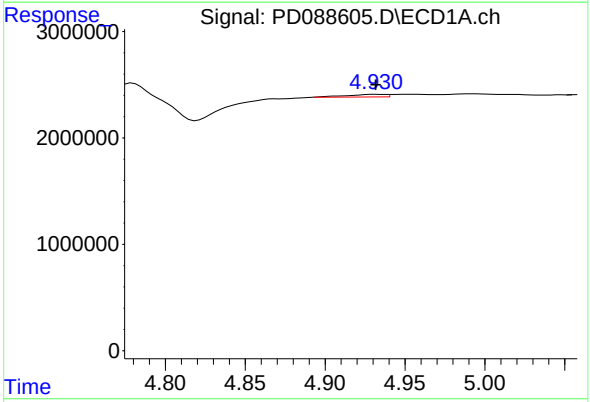
R.T.: 4.331 min
Delta R.T.: 0.000 min
Response: 44937590
Conc: 9.76 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



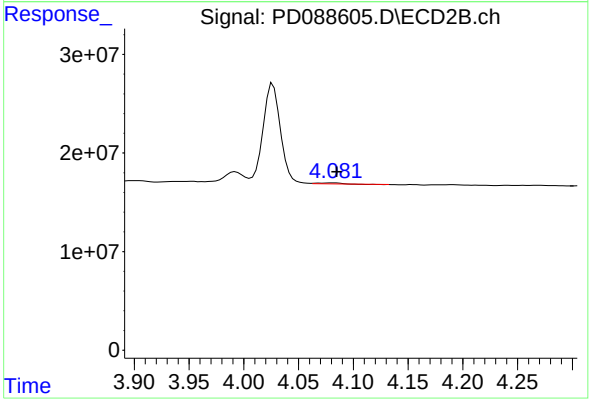
#3 gamma-BHC (Lindane)

R.T.: 3.731 min
Delta R.T.: 0.000 min
Response: 248045836
Conc: 11.19 ng/ml



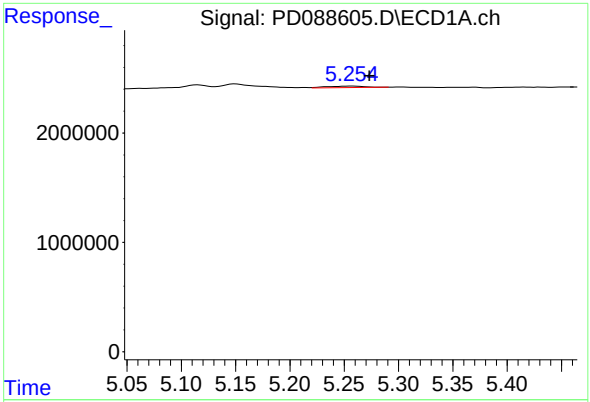
#4 Heptachlor

R.T.: 4.932 min
Delta R.T.: 0.000 min
Response: 435248
Conc: 0.10 ng/ml



#4 Heptachlor

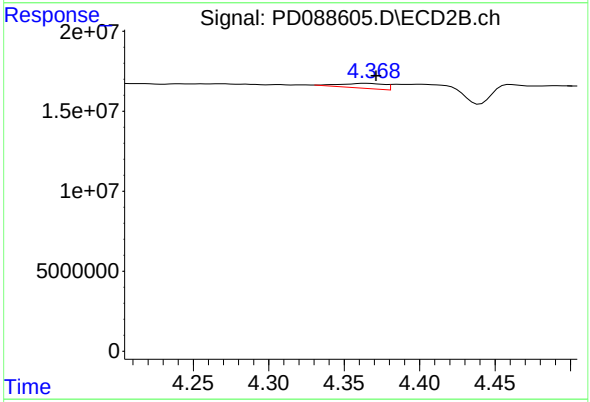
R.T.: 4.083 min
Delta R.T.: -0.002 min
Response: 904651
Conc: 0.04 ng/ml



#5 Aldrin

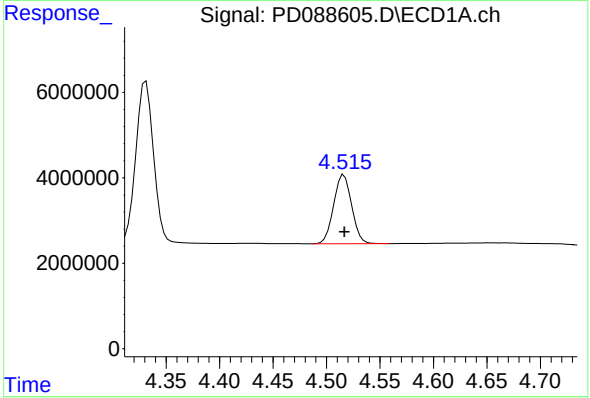
R.T.: 5.257 min
Delta R.T.: -0.017 min
Response: 318610
Conc: 0.07 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



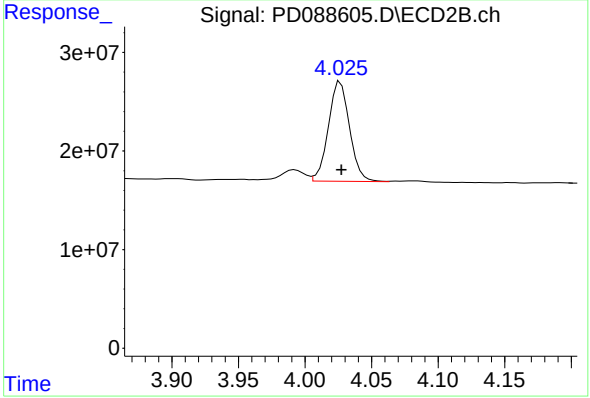
#5 Aldrin

R.T.: 4.365 min
Delta R.T.: -0.006 min
Response: 6267190
Conc: 0.29 ng/ml



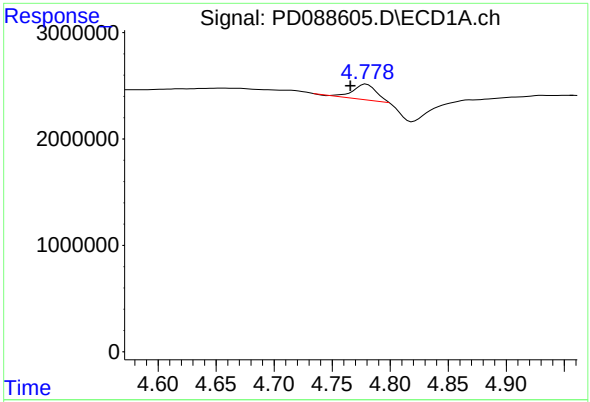
#6 beta-BHC

R.T.: 4.516 min
Delta R.T.: 0.000 min
Response: 18943064
Conc: 10.51 ng/ml



#6 beta-BHC

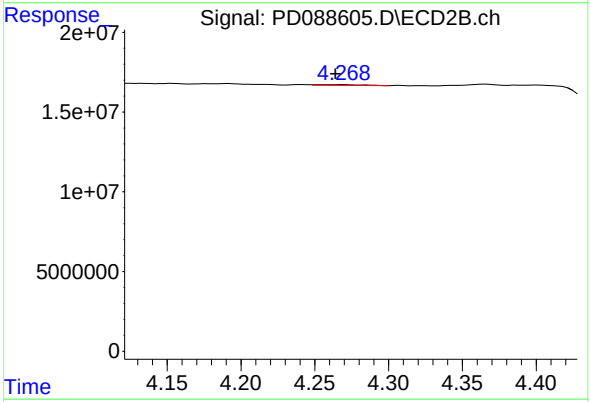
R.T.: 4.027 min
Delta R.T.: 0.000 min
Response: 112099985
Conc: 11.51 ng/ml



#7 delta-BHC

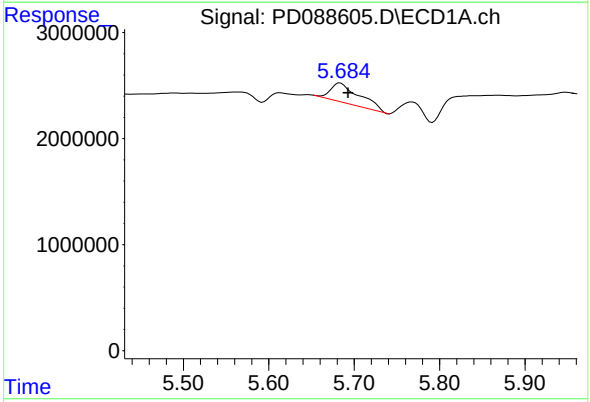
R.T.: 4.779 min
Delta R.T.: 0.014 min
Response: 1953688
Conc: 0.46 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



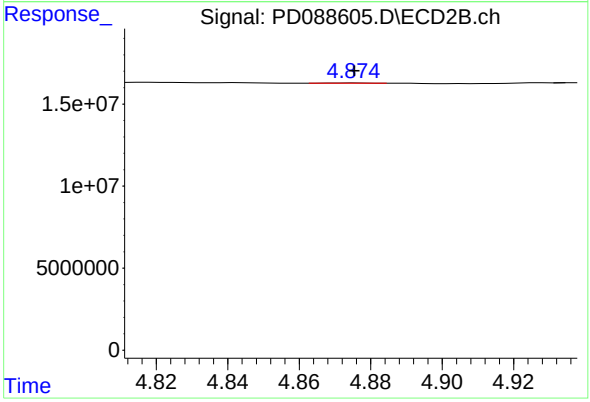
#7 delta-BHC

R.T.: 4.269 min
Delta R.T.: 0.005 min
Response: 934588
Conc: 0.04 ng/ml



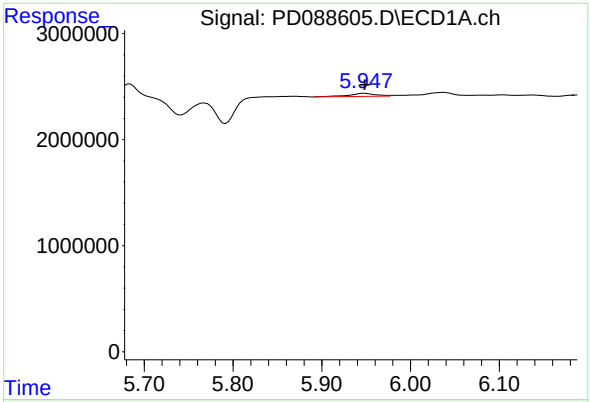
#8 Heptachlor epoxide

R.T.: 5.684 min
Delta R.T.: -0.009 min
Response: 4407413
Conc: 1.11 ng/ml



#8 Heptachlor epoxide

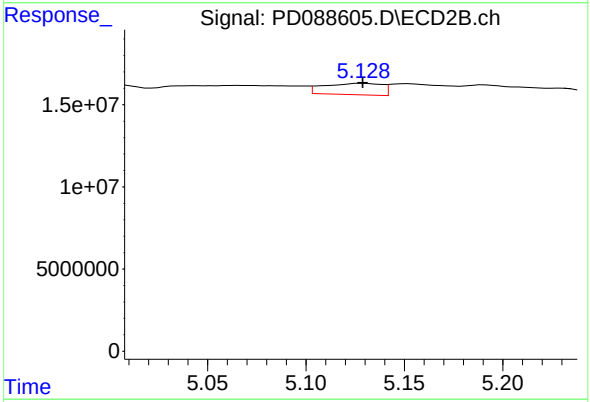
R.T.: 4.876 min
Delta R.T.: 0.000 min
Response: 97167
Conc: 0.00 ng/ml



#10 gamma-Chlordane

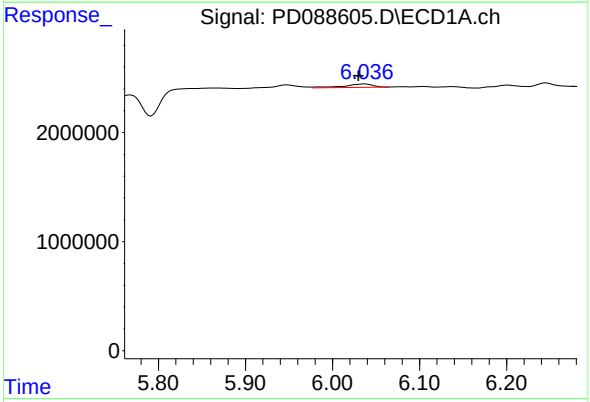
R.T.: 5.948 min
Delta R.T.: 0.000 min
Response: 596748
Conc: 0.15 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



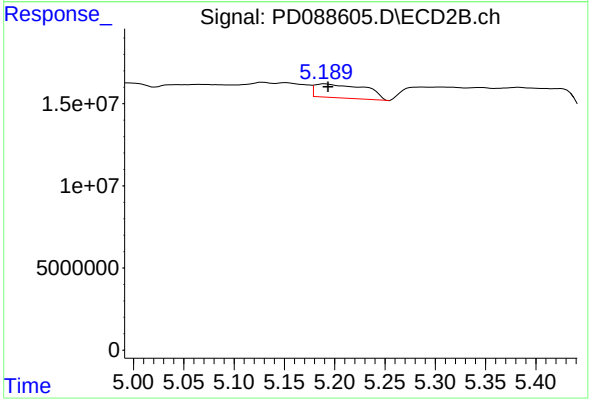
#10 gamma-Chlordane

R.T.: 5.128 min
Delta R.T.: 0.000 min
Response: 14104533
Conc: 0.66 ng/ml



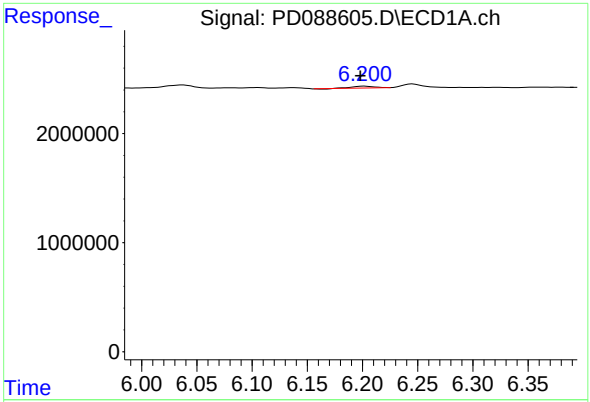
#11 alpha-Chlordane

R.T.: 6.037 min
Delta R.T.: 0.008 min
Response: 689780
Conc: 0.17 ng/ml



#11 alpha-Chlordane

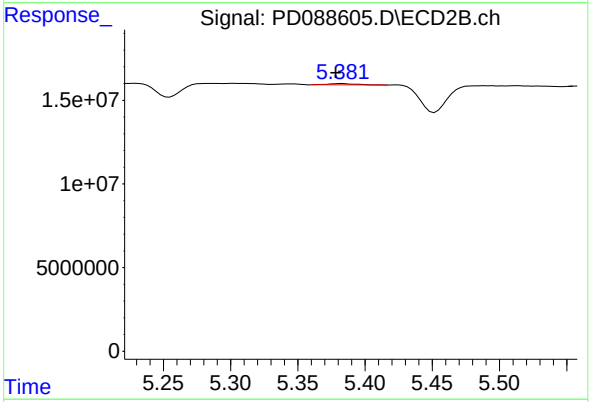
R.T.: 5.191 min
Delta R.T.: -0.003 min
Response: 29493160
Conc: 1.43 ng/ml



#12 4,4'-DDE

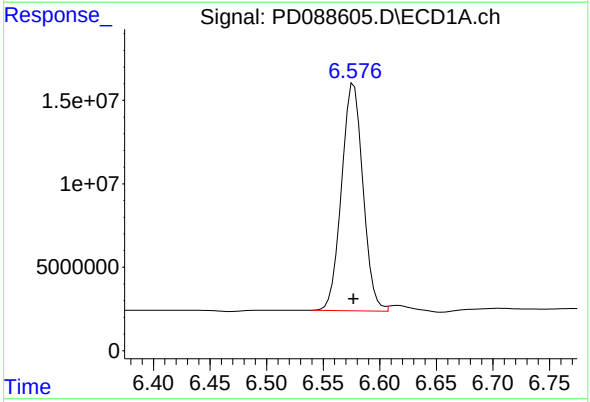
R.T.: 6.201 min
Delta R.T.: 0.003 min
Response: 216131
Conc: 0.06 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



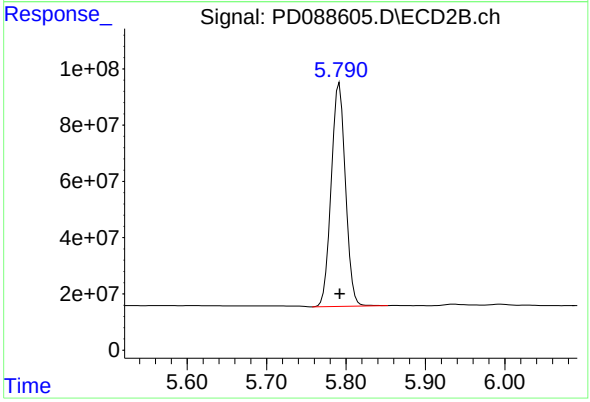
#12 4,4'-DDE

R.T.: 5.383 min
Delta R.T.: 0.004 min
Response: 1109859
Conc: 0.05 ng/ml



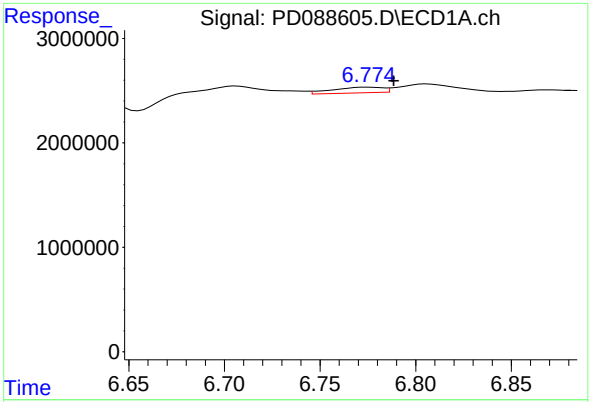
#14 Endrin

R.T.: 6.577 min
Delta R.T.: 0.000 min
Response: 179557630
Conc: 52.58 ng/ml



#14 Endrin

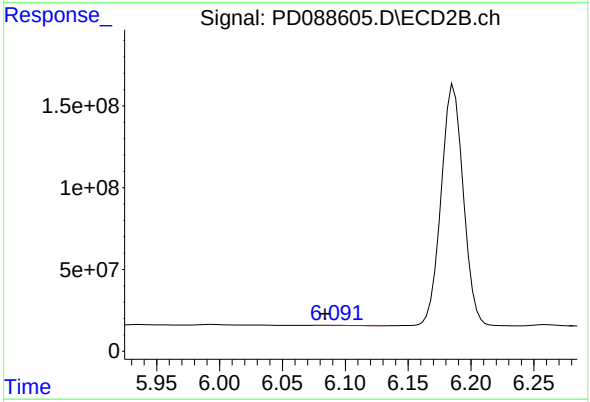
R.T.: 5.792 min
Delta R.T.: 0.000 min
Response: 988716239
Conc: 51.27 ng/ml



#15 Endosulfan II

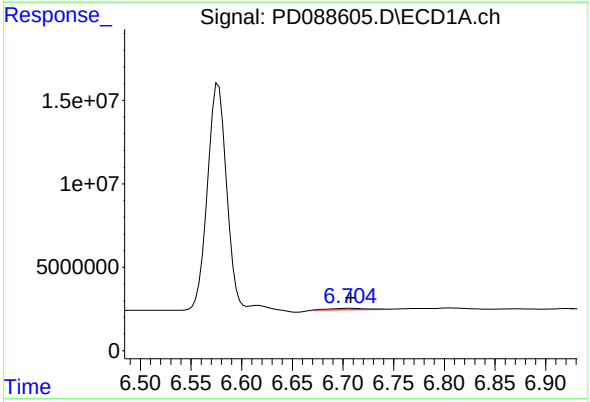
R.T.: 6.775 min
Delta R.T.: -0.013 min
Response: 1004506
Conc: 0.29 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



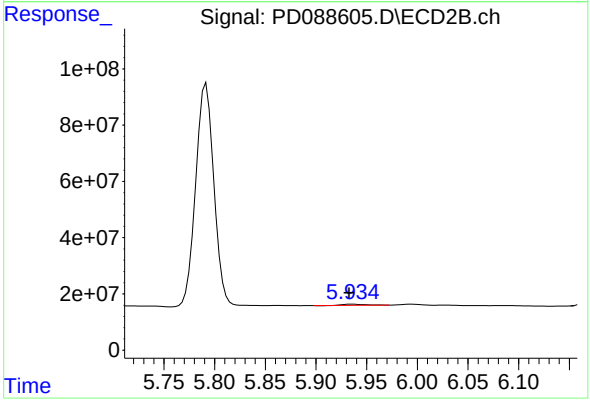
#15 Endosulfan II

R.T.: 6.089 min
Delta R.T.: 0.005 min
Response: 1155723
Conc: 0.06 ng/ml



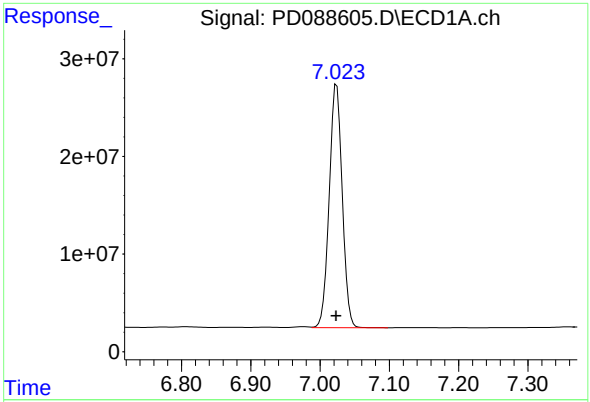
#16 4,4'-DDD

R.T.: 6.706 min
Delta R.T.: -0.001 min
Response: 2490828
Conc: 0.89 ng/ml



#16 4,4'-DDD

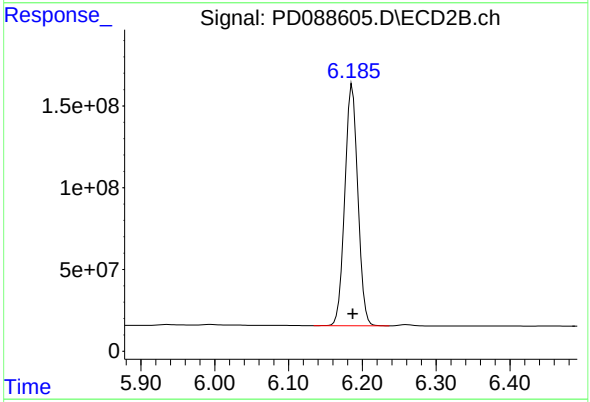
R.T.: 5.935 min
Delta R.T.: 0.003 min
Response: 5710552
Conc: 0.33 ng/ml



#17 4,4'-DDT

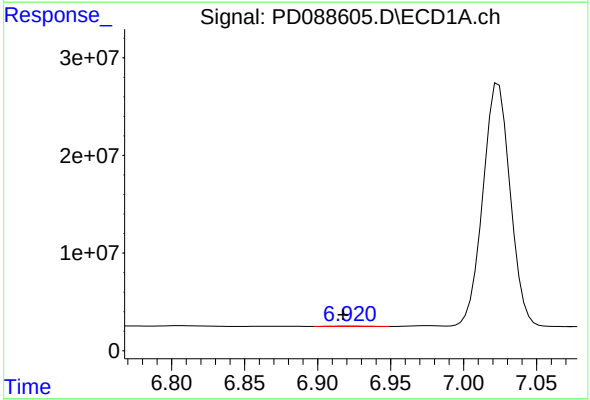
R.T.: 7.024 min
Delta R.T.: 0.000 min
Response: 325080411
Conc: 104.12 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



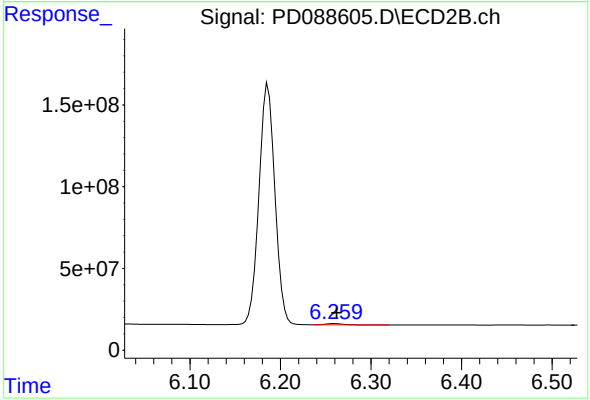
#17 4,4'-DDT

R.T.: 6.186 min
Delta R.T.: 0.000 min
Response: 1808639095
Conc: 99.72 ng/ml



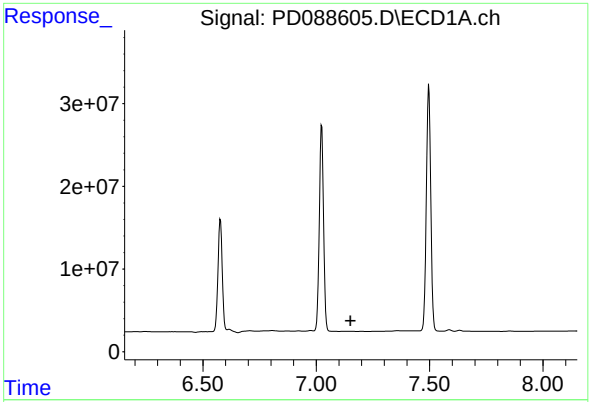
#18 Endrin aldehyde

R.T.: 6.922 min
Delta R.T.: 0.004 min
Response: 683873
Conc: 0.27 ng/ml



#18 Endrin aldehyde

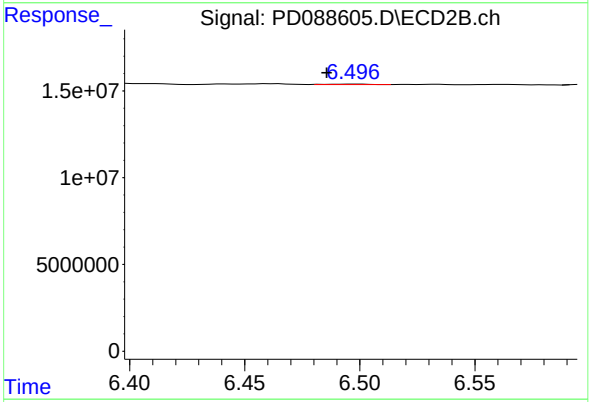
R.T.: 6.260 min
Delta R.T.: -0.002 min
Response: 9143953
Conc: 0.66 ng/ml



#19 Endosulfan Sulfate

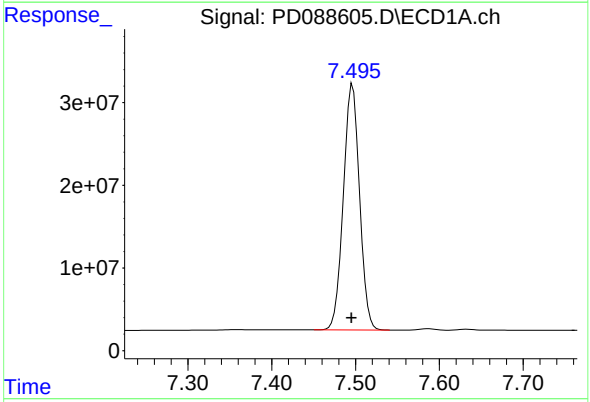
R.T.: 0.000 min
Exp R.T. : 7.152 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
PEM



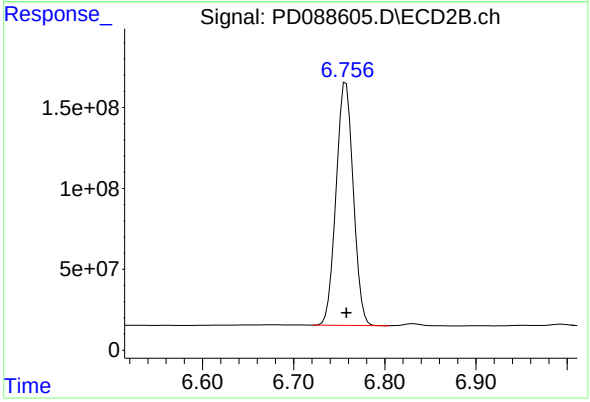
#19 Endosulfan Sulfate

R.T.: 6.498 min
Delta R.T.: 0.012 min
Response: 286426
Conc: 0.02 ng/ml



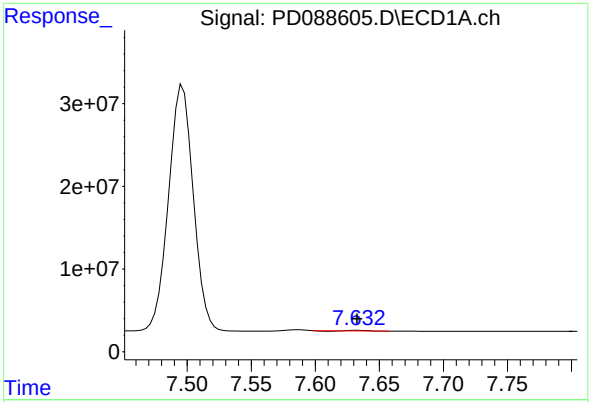
#20 Methoxychlor

R.T.: 7.497 min
Delta R.T.: 0.001 min
Response: 400097256
Conc: 239.50 ng/ml



#20 Methoxychlor

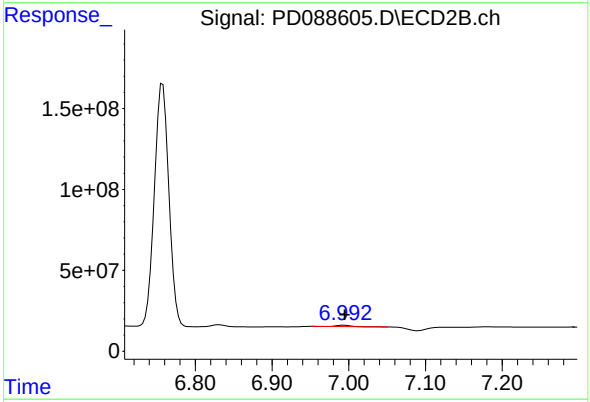
R.T.: 6.757 min
Delta R.T.: 0.000 min
Response: 1969418433
Conc: 205.69 ng/ml



#21 Endrin ketone

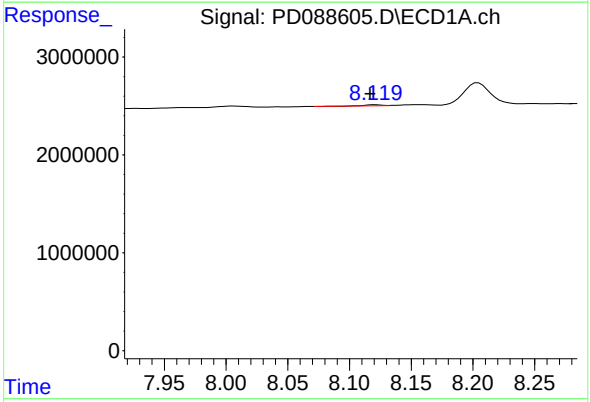
R.T.: 7.633 min
Delta R.T.: 0.000 min
Response: 471706
Conc: 0.14 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



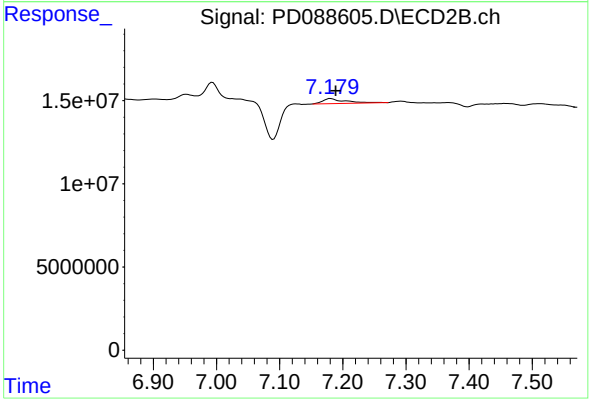
#21 Endrin ketone

R.T.: 6.994 min
Delta R.T.: -0.001 min
Response: 10632226
Conc: 0.55 ng/ml



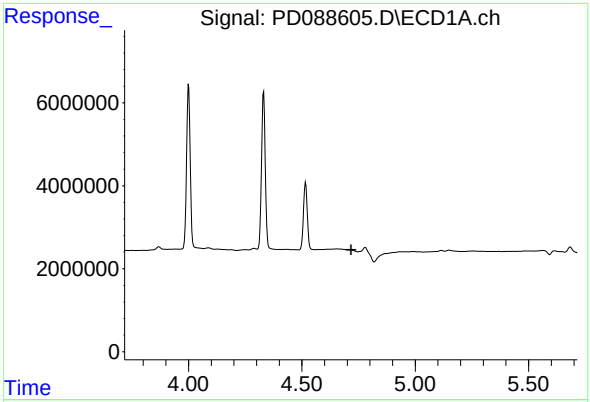
#22 Mirex

R.T.: 8.120 min
Delta R.T.: 0.004 min
Response: 100440
Conc: 0.04 ng/ml



#22 Mirex

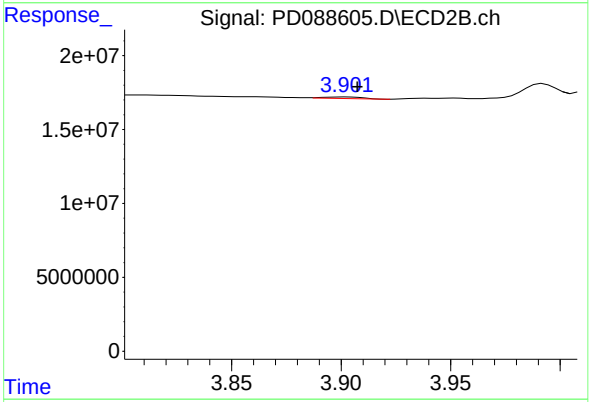
R.T.: 7.181 min
Delta R.T.: -0.008 min
Response: 7560536
Conc: 0.50 ng/ml



#23 Chlordane-1

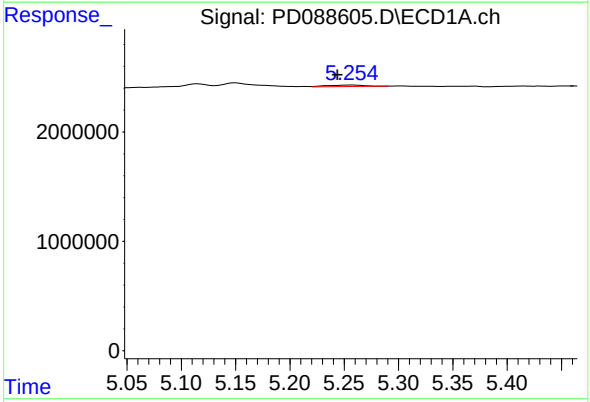
R.T.: 0.000 min
Exp R.T. : 4.717 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
PEM



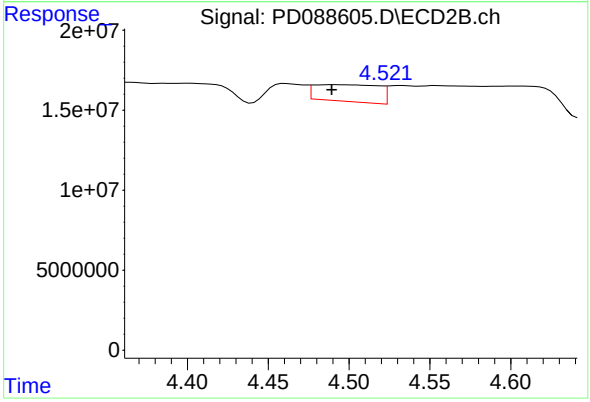
#23 Chlordane-1

R.T.: 3.903 min
Delta R.T.: -0.005 min
Response: 1221460
Conc: 1.48 ng/ml



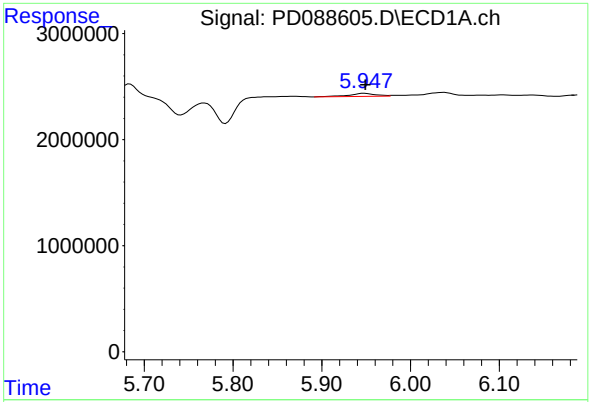
#24 Chlordane-2

R.T.: 5.257 min
Delta R.T.: 0.013 min
Response: 318610
Conc: 1.74 ng/ml



#24 Chlordane-2

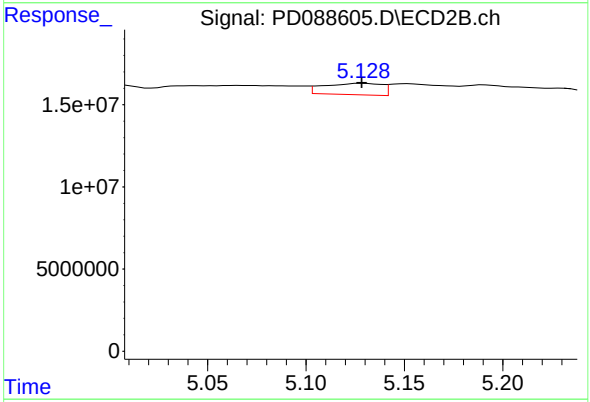
R.T.: 4.491 min
Delta R.T.: 0.002 min
Response: 29020045
Conc: 34.38 ng/ml



#25 Chlordane-3

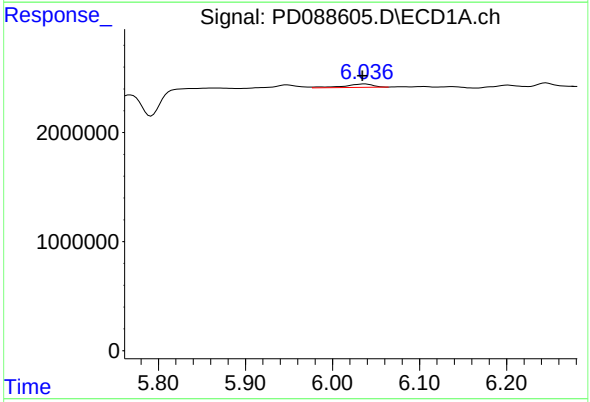
R.T.: 5.948 min
Delta R.T.: 0.000 min
Response: 596748
Conc: 0.81 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



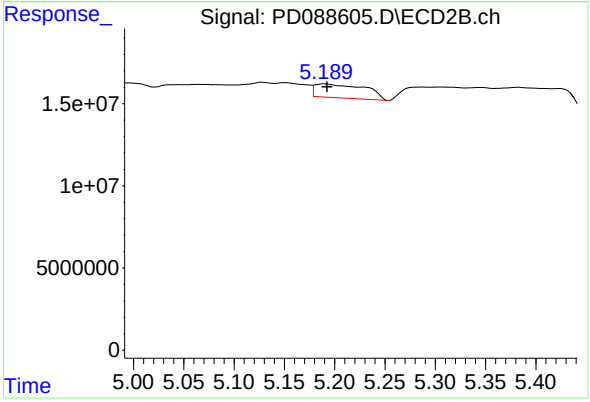
#25 Chlordane-3

R.T.: 5.128 min
Delta R.T.: 0.000 min
Response: 14104533
Conc: 5.35 ng/ml



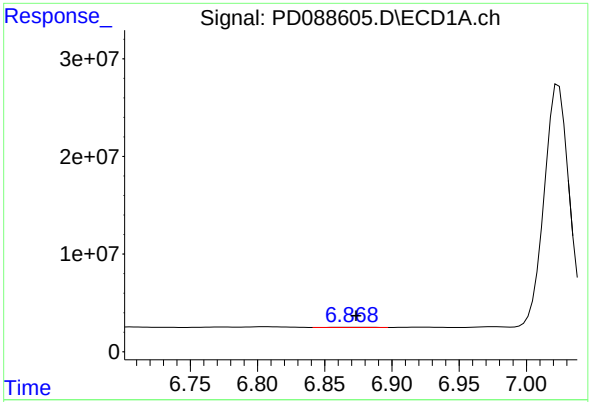
#26 Chlordane-4

R.T.: 6.037 min
Delta R.T.: 0.003 min
Response: 689780
Conc: 0.77 ng/ml



#26 Chlordane-4

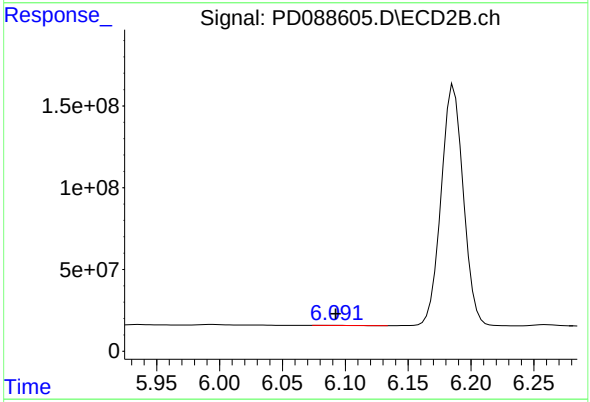
R.T.: 5.191 min
Delta R.T.: -0.002 min
Response: 29493160
Conc: 13.33 ng/ml



#27 Chlordane-5

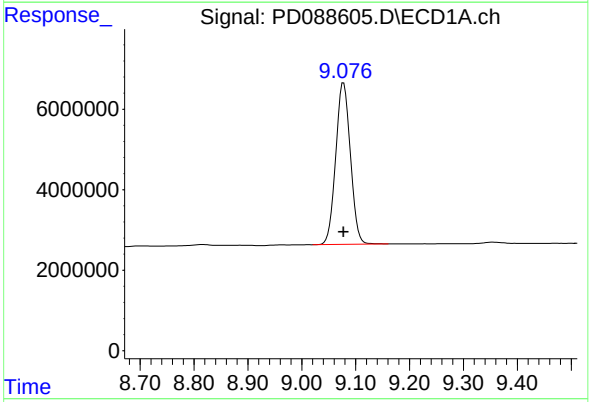
R.T.: 6.869 min
Delta R.T.: -0.004 min
Response: 304540
Conc: 2.00 ng/ml

Instrument :
ECD_D
ClientSampleId :
PEM



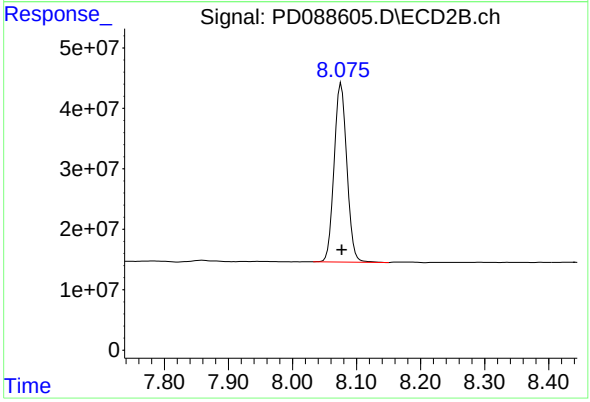
#27 Chlordane-5

R.T.: 6.089 min
Delta R.T.: -0.004 min
Response: 1155723
Conc: 1.15 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.077 min
Delta R.T.: 0.000 min
Response: 75939709
Conc: 22.19 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 407949741
Conc: 22.35 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088609.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 16:50
Operator : AR\AJ
Sample : Q1984-09RE
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725RE

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:44:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	System Monitoring Compounds							
1)	SA Tetrachlo...	3.557	2.881	26538024	211.6E6	12.265	13.989	
28)	SA Decachlor...	9.086	8.076	26445198	83968032	7.727	4.599	#
	Target Compounds							
2)	A alpha-BHC	3.990	3.385	306611	3013229	0.064	0.126	#
3)	MA gamma-BHC...	4.345	3.737	3653413	12473976	0.794	0.563	#
4)	MA Heptachlor	4.961f	4.075	9552454	24345623	2.136	1.084	#
5)	MB Aldrin	5.245f	4.375	3709373	-13583375	0.844	N.D.	#
6)	B beta-BHC	4.542f	0.000	419315	0	0.233	N.D.	#
7)	B delta-BHC	4.788f	4.277	810622	7863876	0.192	0.353	#
8)	B Heptachlo...	5.695	4.874	788636	6294481	0.199	0.317	#
9)	A Endosulfan I	6.074	5.270f	662857	58837187	0.176	3.100	#
10)	B gamma-Chl...	5.954	5.128	6924264	85029071	1.736	3.986	#
11)	B alpha-Chl...	6.038	5.194	9857255	76465936	2.460	3.707	#
12)	B 4,4'-DDE	6.204	5.379	6372835	53373931	1.775	2.553	#
13)	MA Dieldrin	6.358	5.514	2496464	31233737	0.622	1.484	#
14)	MA Endrin	6.586	5.796	1446928	31416392	0.424	1.629	#
15)	B Endosulfa...	6.795	6.073	1708900	13474902	0.496	0.735	#
16)	A 4,4'-DDD	6.703	0.000	3306348	0	1.187	N.D.	#
17)	MA 4,4'-DDT	7.032	6.202f	1388676	52198526	0.445	2.878	#
18)	B Endrin al...	6.927	6.249	5925310	105.4E6	2.301	7.568	#
19)	B Endosulfa...	7.130f	6.486	770611	1313894	0.241	0.074	#
20)	A Methoxychlor	7.491	0.000	159582	0	0.096	N.D.	#
21)	B Endrin ke...	7.612f	6.980	1216158	641327	0.355	0.033	#
22)	Mirex	8.124	7.182	44049	23787432	0.017	1.565	#
23)	Chlordane-1	4.725	3.903	-250731	40198726	N.D.	48.647	
24)	Chlordane-2	5.245	4.494	3709373	7965678	20.214	9.438	#
25)	Chlordane-3	5.954	5.128	6924264	85029071	9.358	32.247	#
26)	Chlordane-4	6.038	5.194	9857255	76465936	10.999	34.561	#
27)	Chlordane-5	6.872	6.073f	867364	13474902	5.701	13.463	#

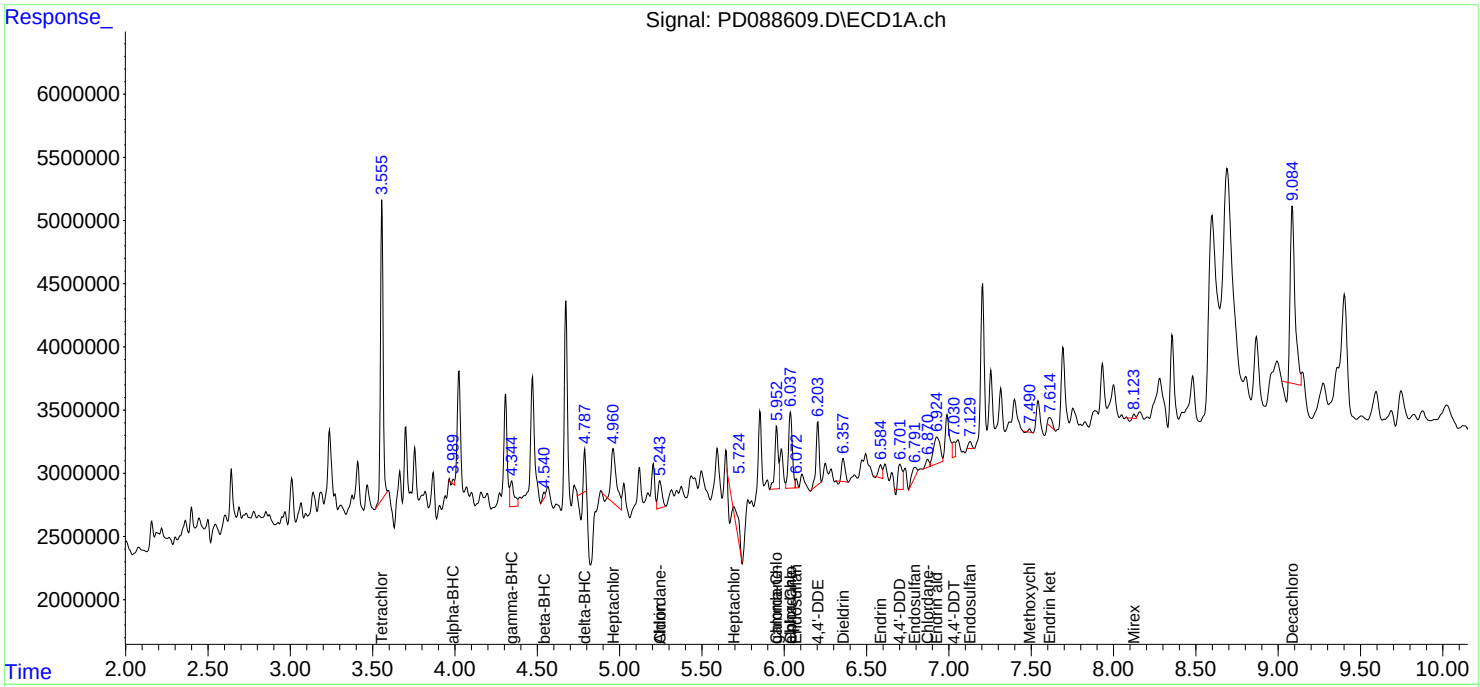
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

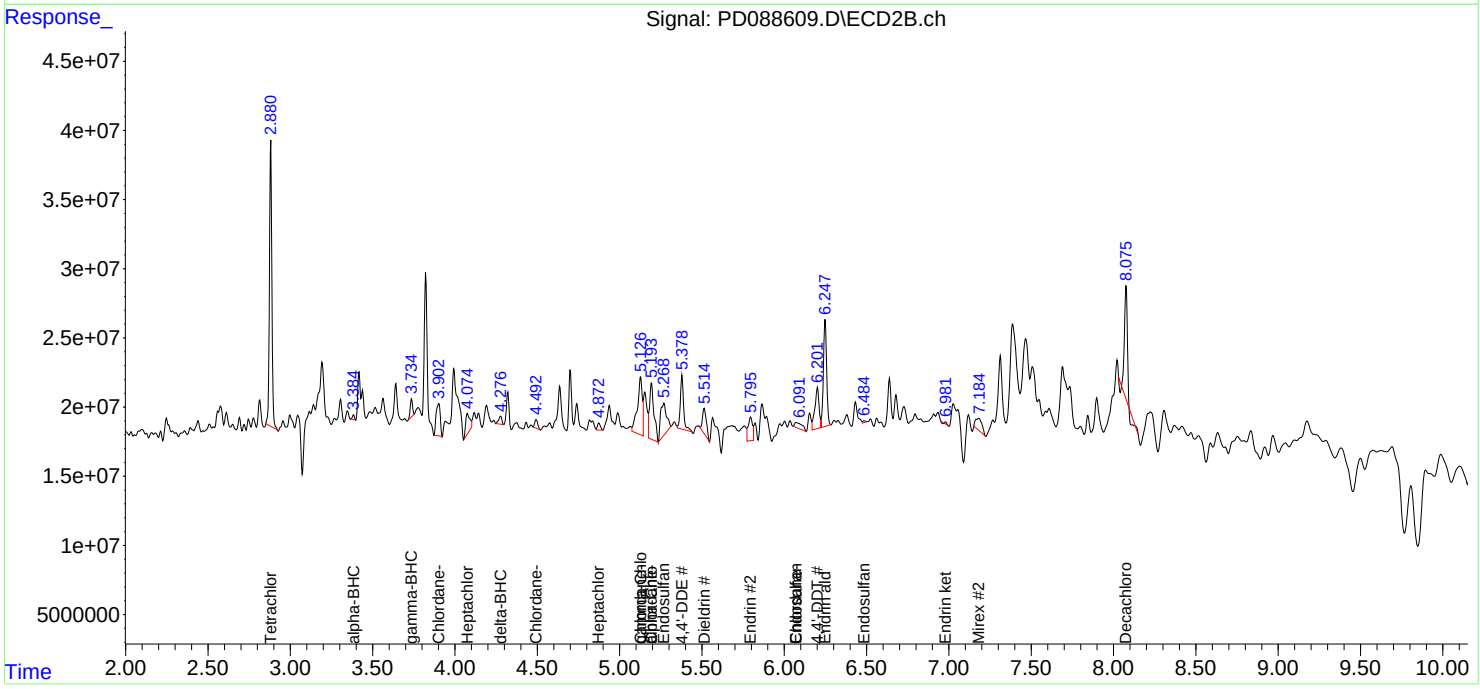
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088609.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 16:50
Operator : AR\AJ
Sample : Q1984-09RE
Misc :
ALS Vial : 24 Sample Multiplier: 1

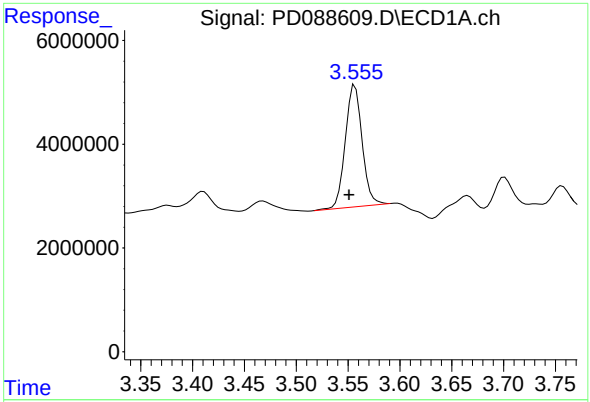
Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725RE

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:44:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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



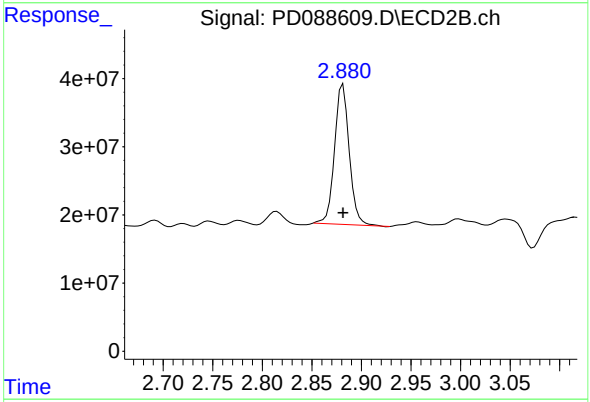




#1 Tetrachloro-m-xylene

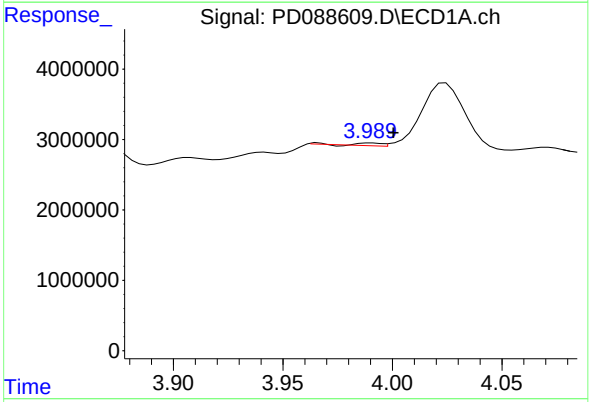
R.T.: 3.557 min
Delta R.T.: 0.006 min
Response: 26538024
Conc: 12.26 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725RE



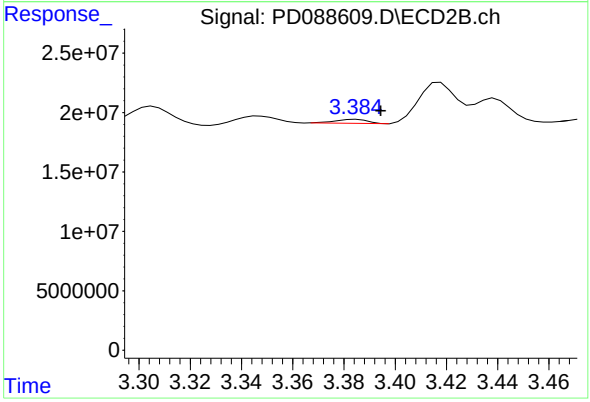
#1 Tetrachloro-m-xylene

R.T.: 2.881 min
Delta R.T.: 0.000 min
Response: 211616099
Conc: 13.99 ng/ml



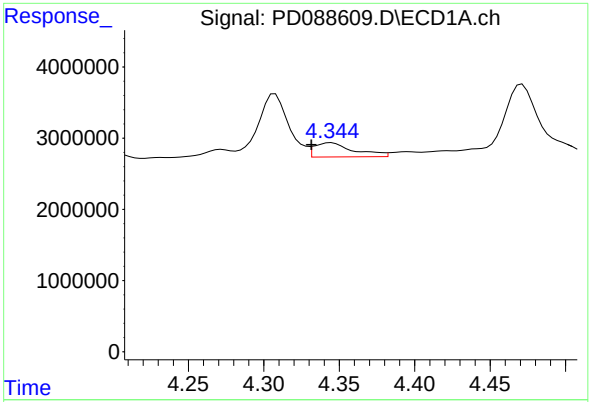
#2 alpha-BHC

R.T.: 3.990 min
Delta R.T.: -0.010 min
Response: 306611
Conc: 0.06 ng/ml



#2 alpha-BHC

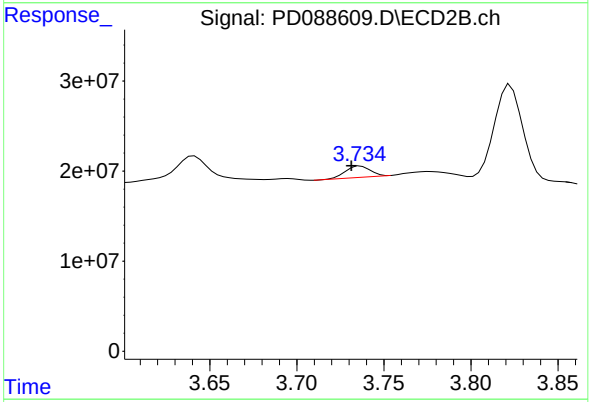
R.T.: 3.385 min
Delta R.T.: -0.010 min
Response: 3013229
Conc: 0.13 ng/ml



#3 gamma-BHC (Lindane)

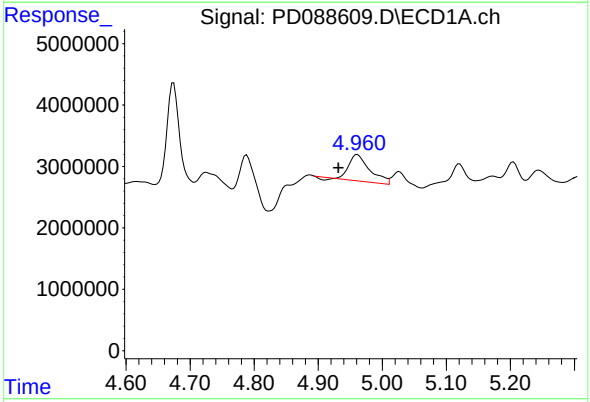
R.T.: 4.345 min
Delta R.T.: 0.013 min
Response: 3653413
Conc: 0.79 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725RE



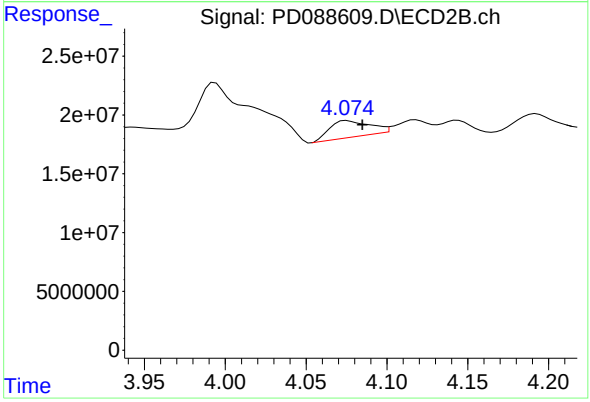
#3 gamma-BHC (Lindane)

R.T.: 3.737 min
Delta R.T.: 0.005 min
Response: 12473976
Conc: 0.56 ng/ml



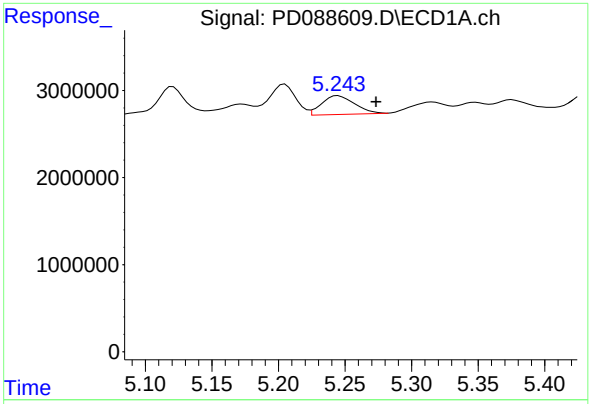
#4 Heptachlor

R.T.: 4.961 min
Delta R.T.: 0.029 min
Response: 9552454
Conc: 2.14 ng/ml



#4 Heptachlor

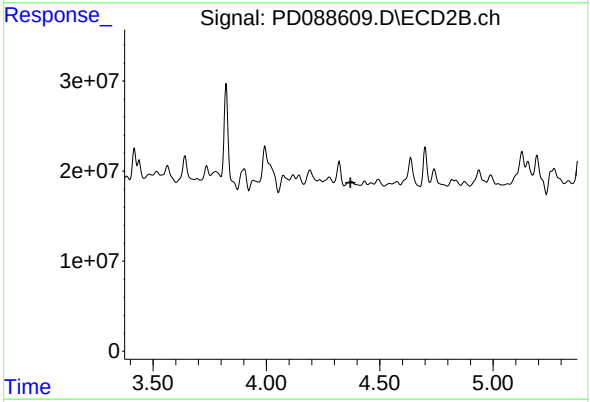
R.T.: 4.075 min
Delta R.T.: -0.010 min
Response: 24345623
Conc: 1.08 ng/ml



#5 Aldrin

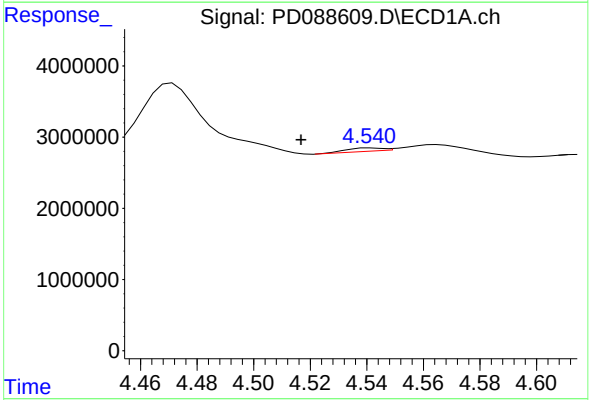
R.T.: 5.245 min
Delta R.T.: -0.029 min
Response: 3709373
Conc: 0.84 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725RE



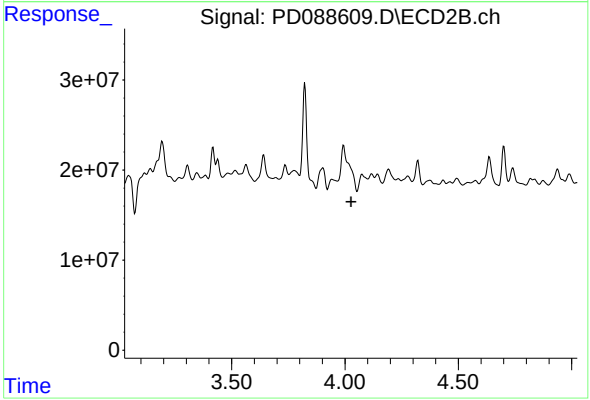
#5 Aldrin

R.T.: 4.375 min
Delta R.T.: 0.004 min
Response: -13583375
Conc: N.D.



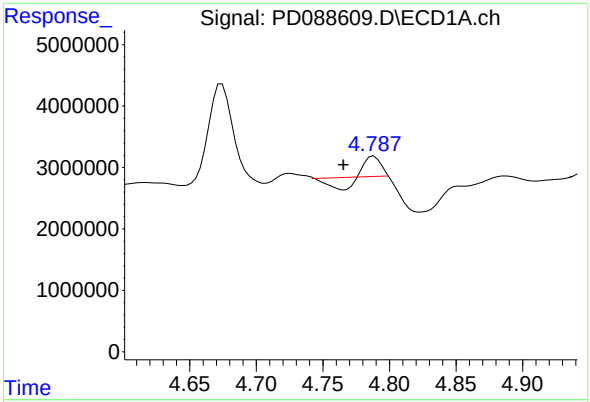
#6 beta-BHC

R.T.: 4.542 min
Delta R.T.: 0.025 min
Response: 419315
Conc: 0.23 ng/ml



#6 beta-BHC

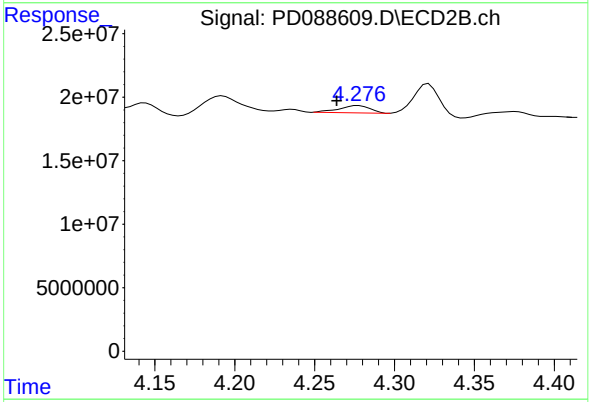
R.T.: 0.000 min
Exp R.T. : 4.027 min
Response: 0
Conc: N.D.



#7 delta-BHC

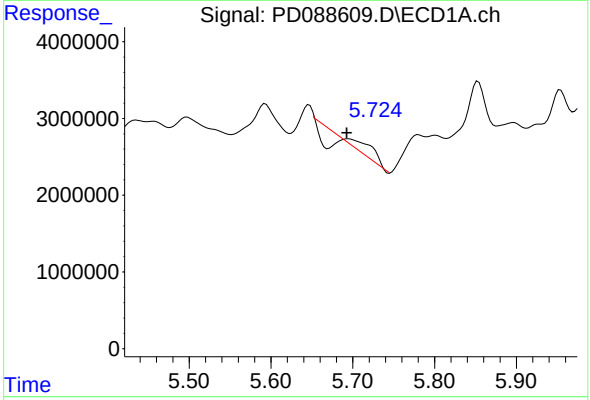
R.T.: 4.788 min
Delta R.T.: 0.023 min
Response: 810622
Conc: 0.19 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725RE



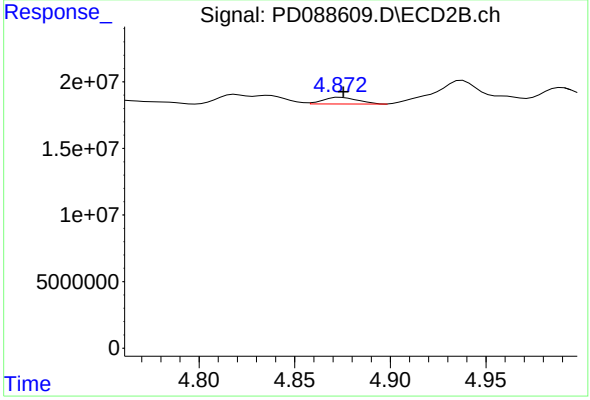
#7 delta-BHC

R.T.: 4.277 min
Delta R.T.: 0.014 min
Response: 7863876
Conc: 0.35 ng/ml



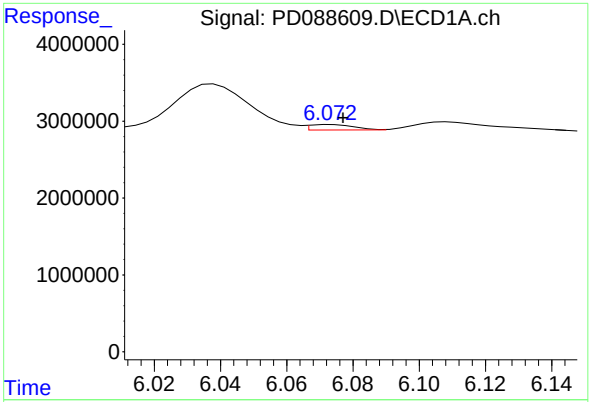
#8 Heptachlor epoxide

R.T.: 5.695 min
Delta R.T.: 0.002 min
Response: 788636
Conc: 0.20 ng/ml



#8 Heptachlor epoxide

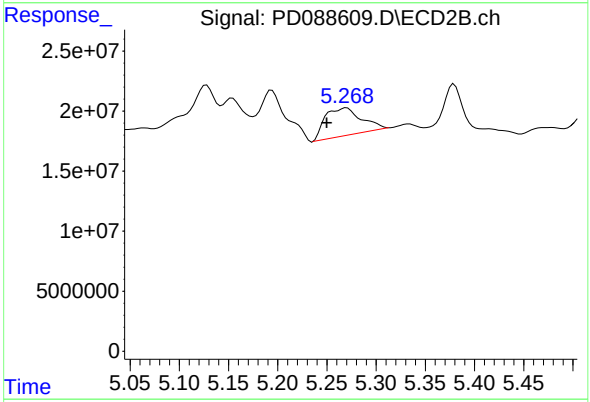
R.T.: 4.874 min
Delta R.T.: -0.002 min
Response: 6294481
Conc: 0.32 ng/ml



#9 Endosulfan I

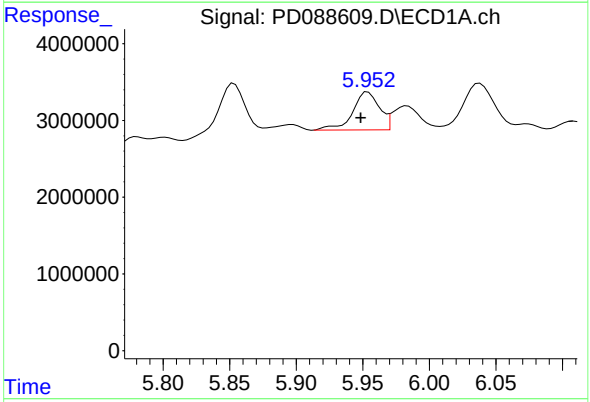
R.T.: 6.074 min
Delta R.T.: -0.003 min
Response: 662857
Conc: 0.18 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725RE



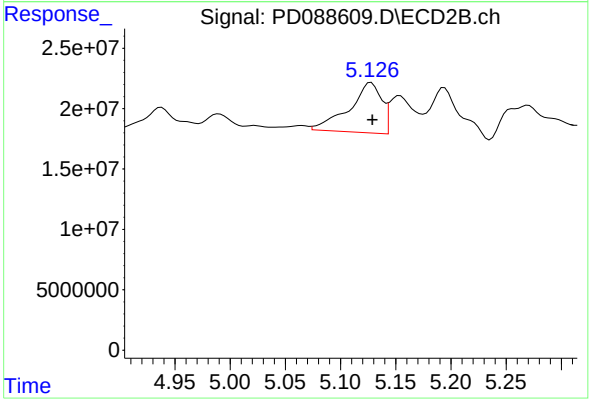
#9 Endosulfan I

R.T.: 5.270 min
Delta R.T.: 0.020 min
Response: 58837187
Conc: 3.10 ng/ml



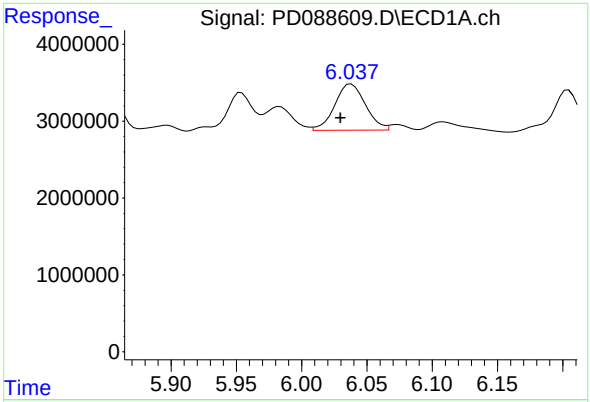
#10 gamma-Chlordane

R.T.: 5.954 min
Delta R.T.: 0.006 min
Response: 6924264
Conc: 1.74 ng/ml



#10 gamma-Chlordane

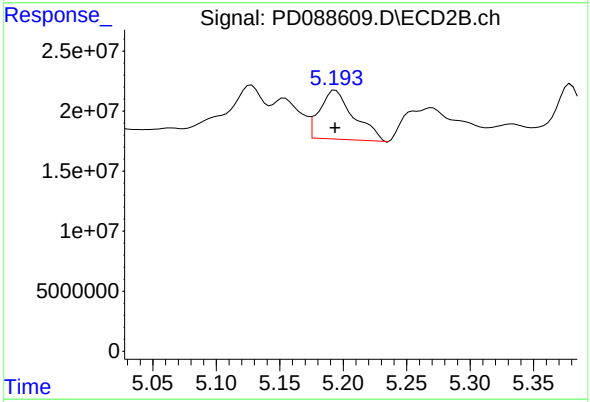
R.T.: 5.128 min
Delta R.T.: -0.001 min
Response: 85029071
Conc: 3.99 ng/ml



#11 alpha-Chlordane

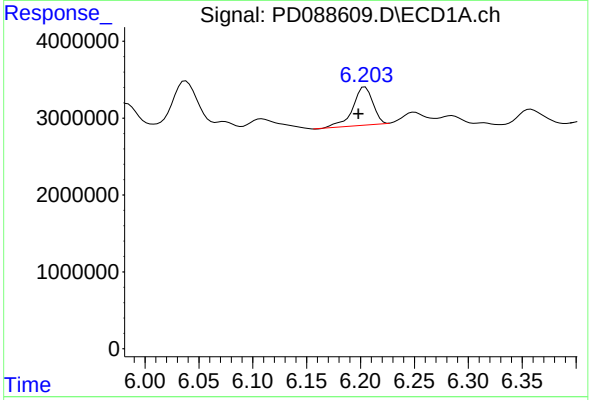
R.T.: 6.038 min
Delta R.T.: 0.008 min
Response: 9857255
Conc: 2.46 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725RE



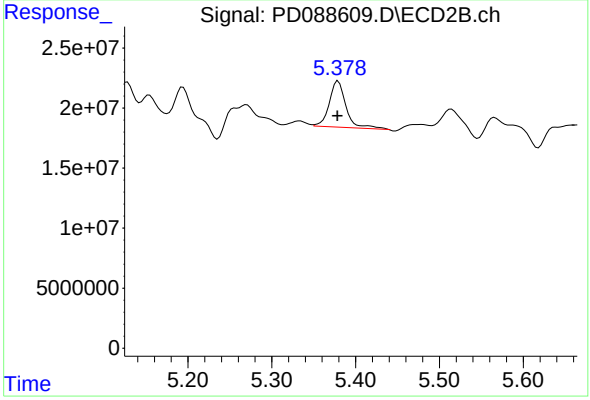
#11 alpha-Chlordane

R.T.: 5.194 min
Delta R.T.: 0.000 min
Response: 76465936
Conc: 3.71 ng/ml



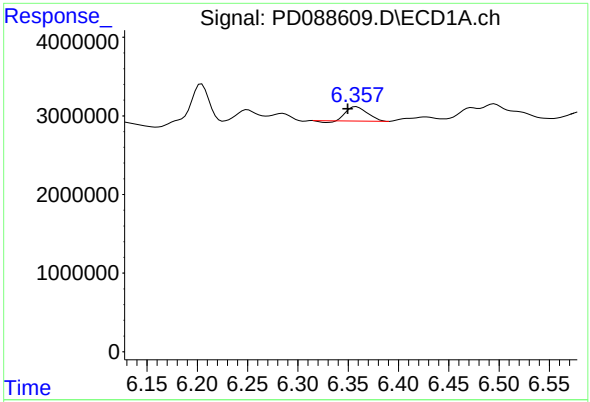
#12 4,4'-DDE

R.T.: 6.204 min
Delta R.T.: 0.006 min
Response: 6372835
Conc: 1.78 ng/ml



#12 4,4'-DDE

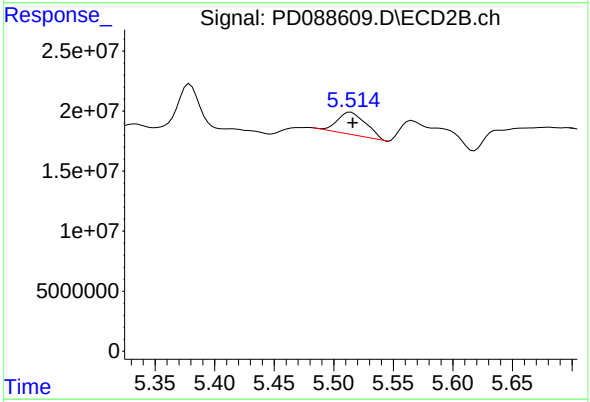
R.T.: 5.379 min
Delta R.T.: 0.000 min
Response: 53373931
Conc: 2.55 ng/ml



#13 Dieldrin

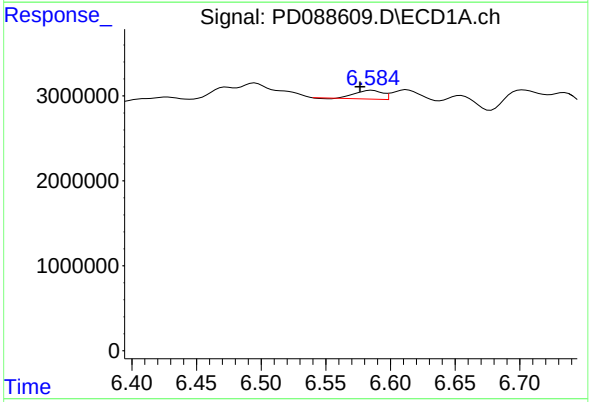
R.T.: 6.358 min
Delta R.T.: 0.009 min
Response: 2496464
Conc: 0.62 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725RE



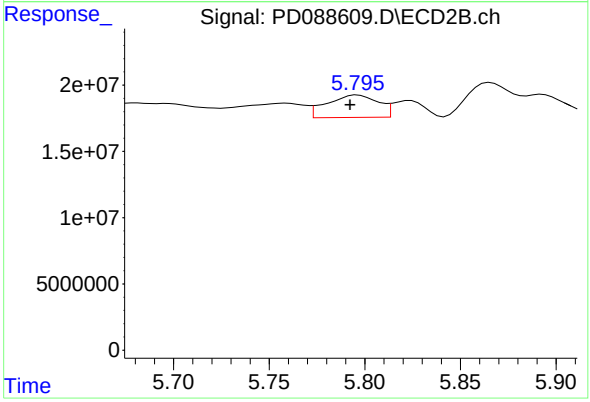
#13 Dieldrin

R.T.: 5.514 min
Delta R.T.: -0.002 min
Response: 31233737
Conc: 1.48 ng/ml



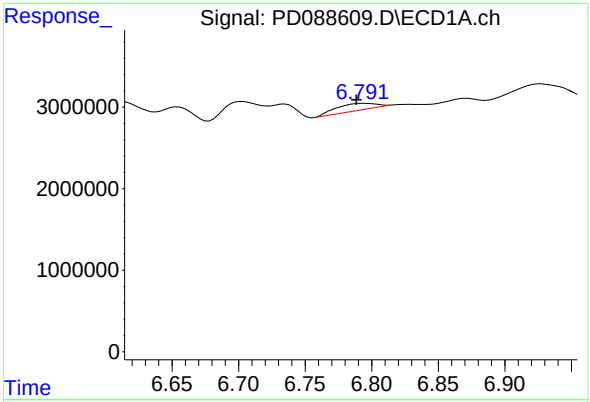
#14 Endrin

R.T.: 6.586 min
Delta R.T.: 0.009 min
Response: 1446928
Conc: 0.42 ng/ml



#14 Endrin

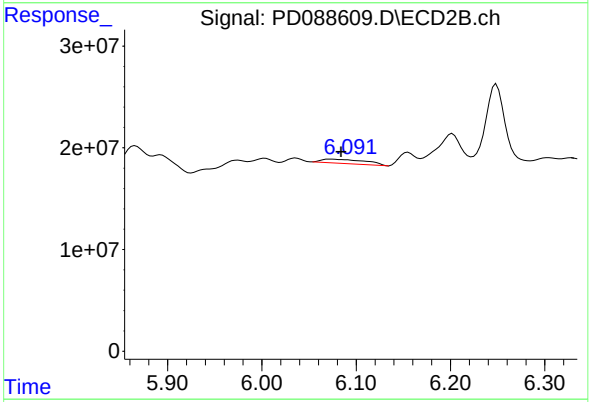
R.T.: 5.796 min
Delta R.T.: 0.004 min
Response: 31416392
Conc: 1.63 ng/ml



#15 Endosulfan II

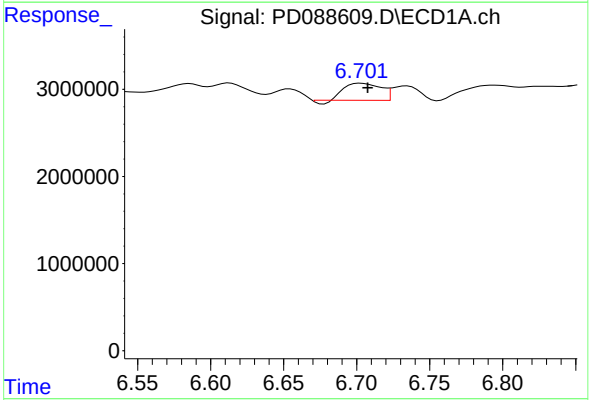
R.T.: 6.795 min
Delta R.T.: 0.006 min
Response: 1708900
Conc: 0.50 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725RE



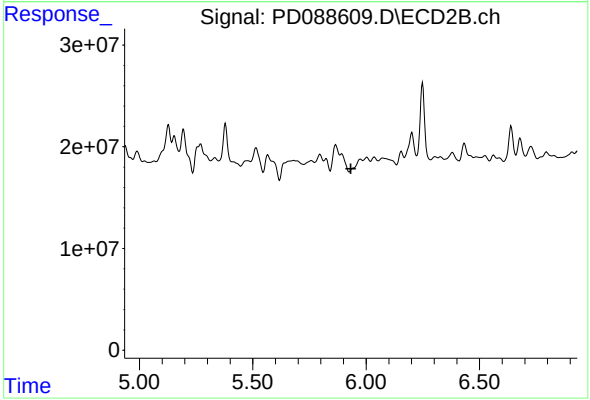
#15 Endosulfan II

R.T.: 6.073 min
Delta R.T.: -0.011 min
Response: 13474902
Conc: 0.74 ng/ml



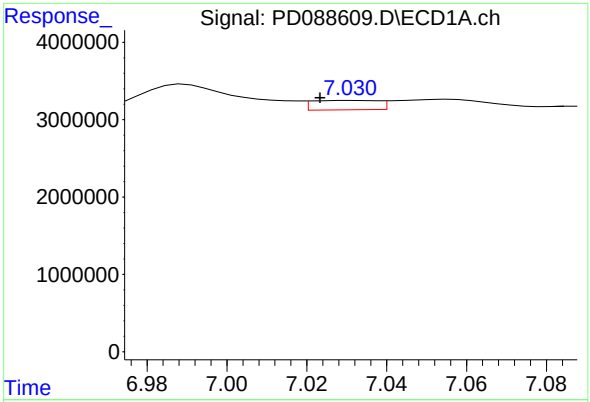
#16 4,4'-DDD

R.T.: 6.703 min
Delta R.T.: -0.005 min
Response: 3306348
Conc: 1.19 ng/ml



#16 4,4'-DDD

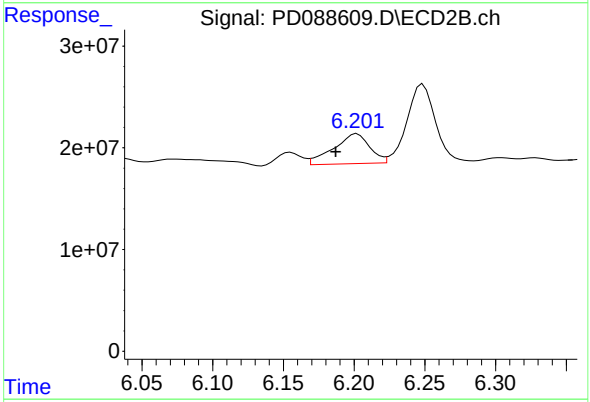
R.T.: 0.000 min
Exp R.T. : 5.933 min
Response: 0
Conc: N.D.



#17 4,4'-DDT

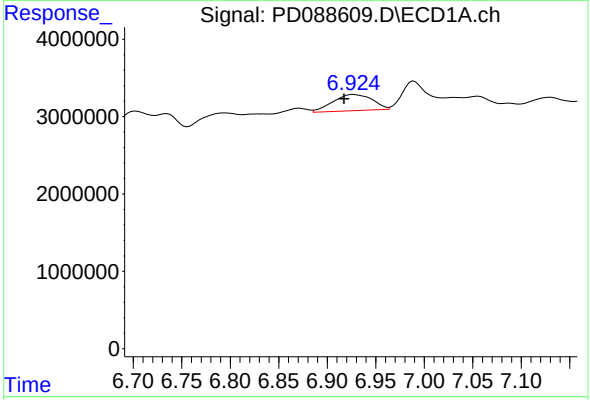
R.T.: 7.032 min
Delta R.T.: 0.008 min
Response: 1388676
Conc: 0.44 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725RE



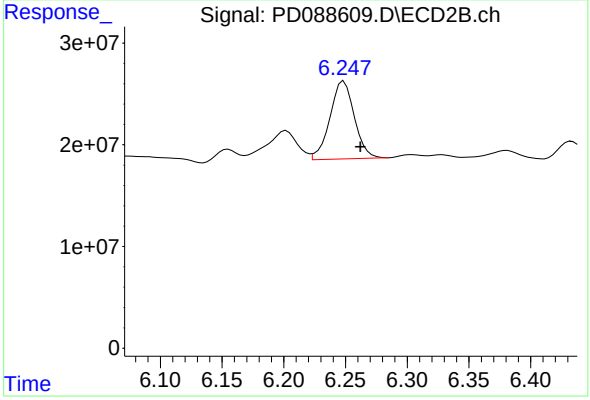
#17 4,4'-DDT

R.T.: 6.202 min
Delta R.T.: 0.015 min
Response: 52198526
Conc: 2.88 ng/ml



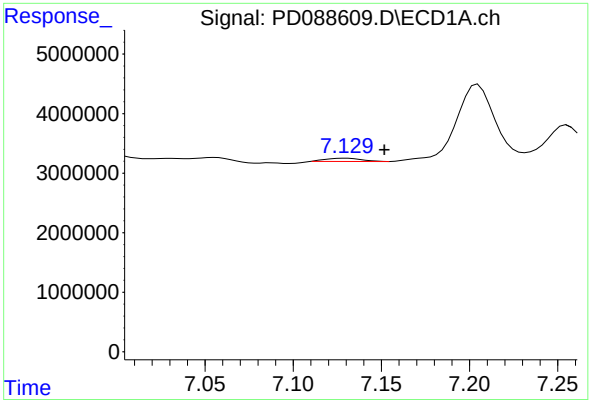
#18 Endrin aldehyde

R.T.: 6.927 min
Delta R.T.: 0.010 min
Response: 5925310
Conc: 2.30 ng/ml



#18 Endrin aldehyde

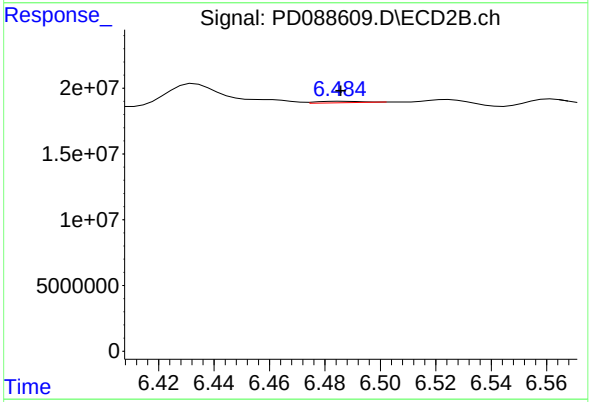
R.T.: 6.249 min
Delta R.T.: -0.013 min
Response: 105411750
Conc: 7.57 ng/ml



#19 Endosulfan Sulfate

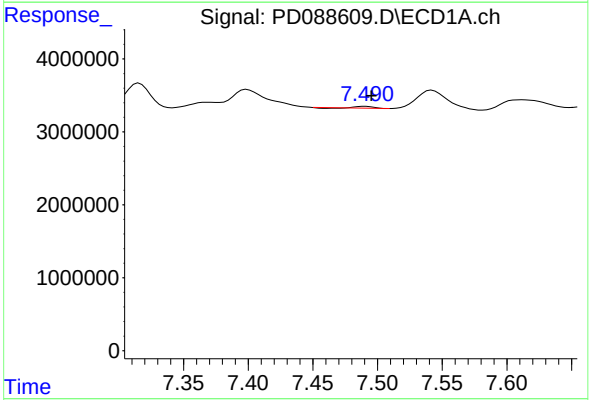
R.T.: 7.130 min
Delta R.T.: -0.021 min
Response: 770611
Conc: 0.24 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725RE



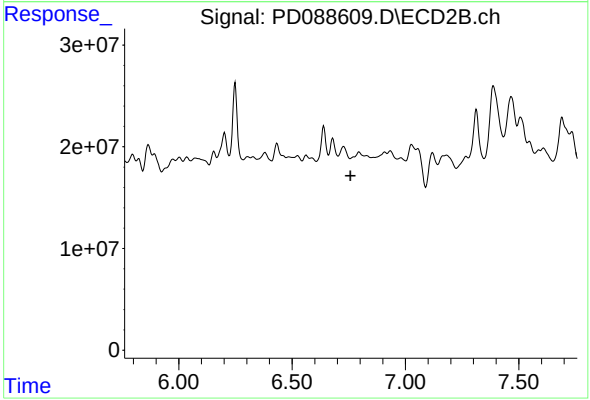
#19 Endosulfan Sulfate

R.T.: 6.486 min
Delta R.T.: 0.000 min
Response: 1313894
Conc: 0.07 ng/ml



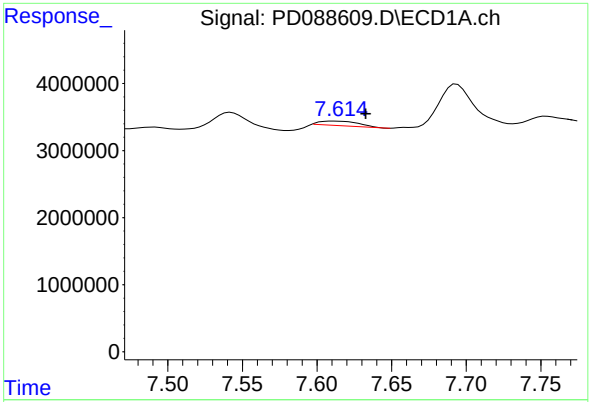
#20 Methoxychlor

R.T.: 7.491 min
Delta R.T.: -0.004 min
Response: 159582
Conc: 0.10 ng/ml



#20 Methoxychlor

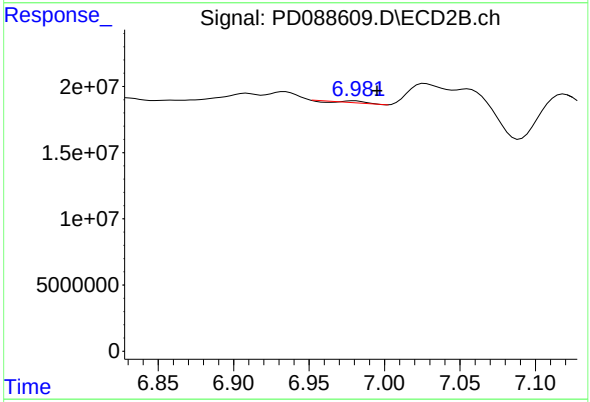
R.T.: 0.000 min
Exp R.T. : 6.758 min
Response: 0
Conc: N.D.



#21 Endrin ketone

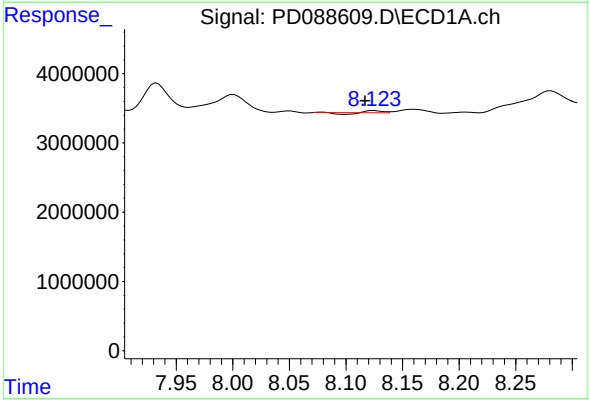
R.T.: 7.612 min
Delta R.T.: -0.021 min
Response: 1216158
Conc: 0.36 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725RE



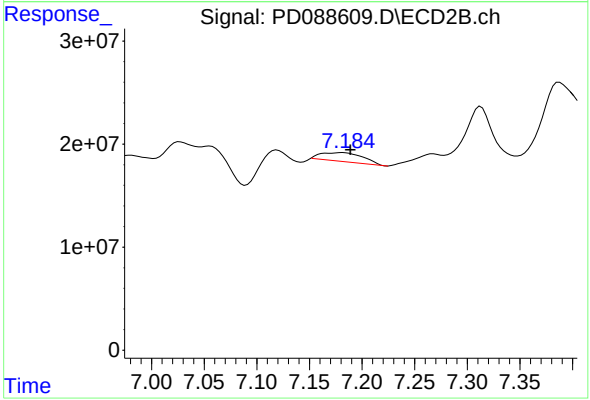
#21 Endrin ketone

R.T.: 6.980 min
Delta R.T.: -0.015 min
Response: 641327
Conc: 0.03 ng/ml



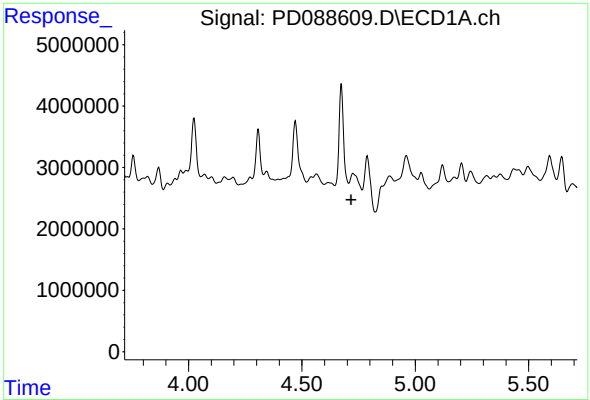
#22 Mirex

R.T.: 8.124 min
Delta R.T.: 0.008 min
Response: 44049
Conc: 0.02 ng/ml



#22 Mirex

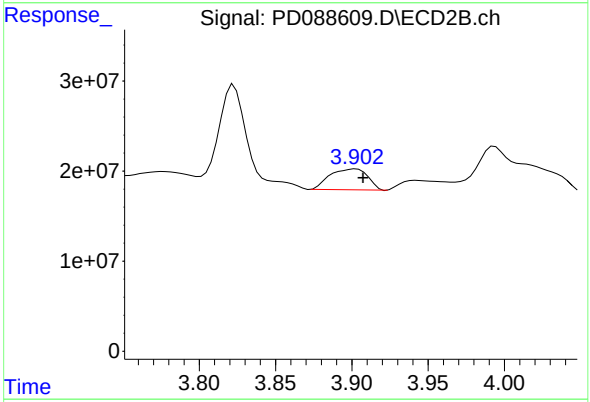
R.T.: 7.182 min
Delta R.T.: -0.007 min
Response: 23787432
Conc: 1.56 ng/ml



#23 Chlordane-1

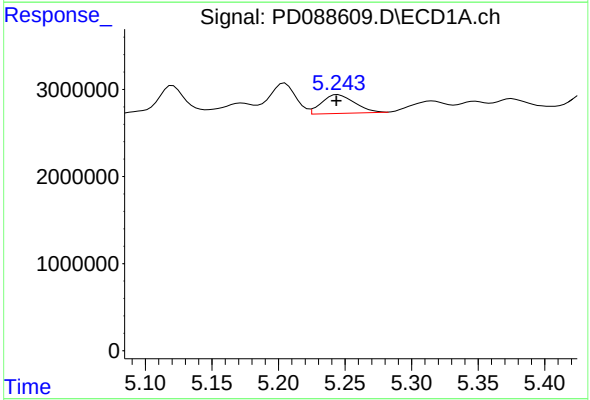
R.T.: 4.725 min
Delta R.T.: 0.008 min
Response: -250731
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725RE



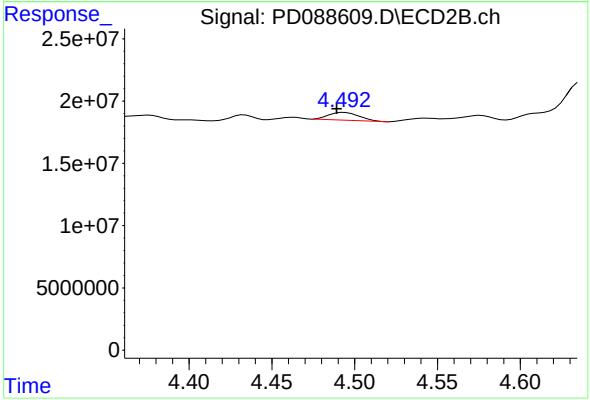
#23 Chlordane-1

R.T.: 3.903 min
Delta R.T.: -0.005 min
Response: 40198726
Conc: 48.65 ng/ml



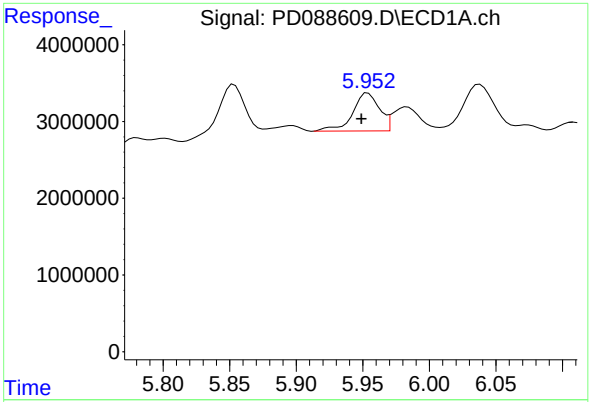
#24 Chlordane-2

R.T.: 5.245 min
Delta R.T.: 0.001 min
Response: 3709373
Conc: 20.21 ng/ml



#24 Chlordane-2

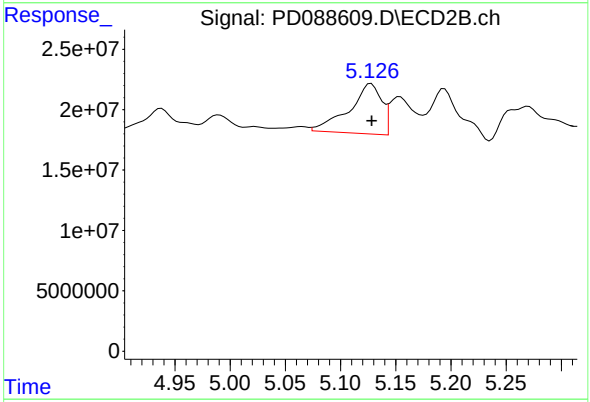
R.T.: 4.494 min
Delta R.T.: 0.004 min
Response: 7965678
Conc: 9.44 ng/ml



#25 Chlordane-3

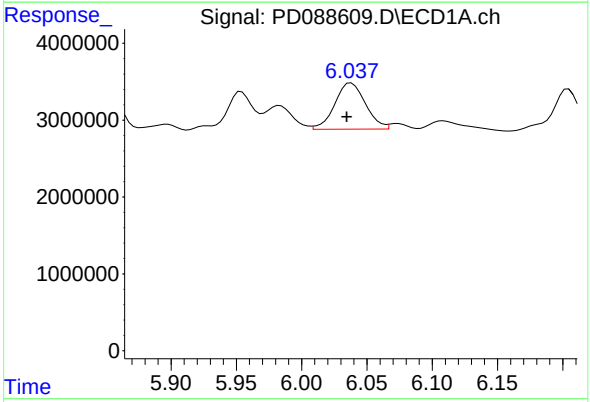
R.T.: 5.954 min
Delta R.T.: 0.005 min
Response: 6924264
Conc: 9.36 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725RE



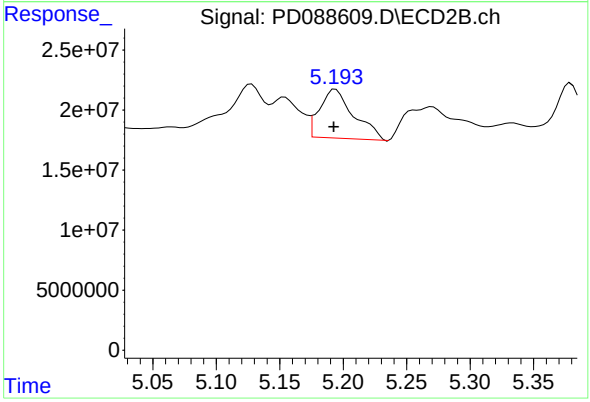
#25 Chlordane-3

R.T.: 5.128 min
Delta R.T.: 0.000 min
Response: 85029071
Conc: 32.25 ng/ml



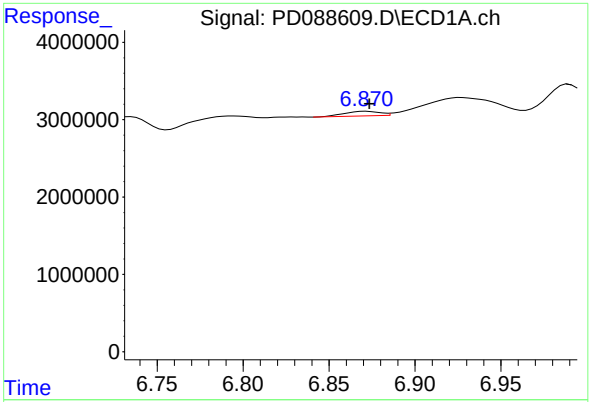
#26 Chlordane-4

R.T.: 6.038 min
Delta R.T.: 0.003 min
Response: 9857255
Conc: 11.00 ng/ml



#26 Chlordane-4

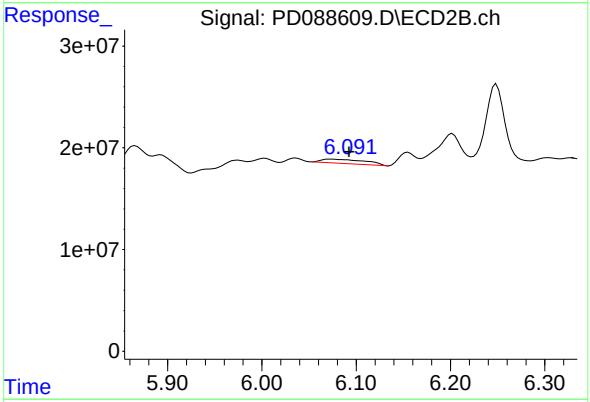
R.T.: 5.194 min
Delta R.T.: 0.002 min
Response: 76465936
Conc: 34.56 ng/ml



#27 Chlordane-5

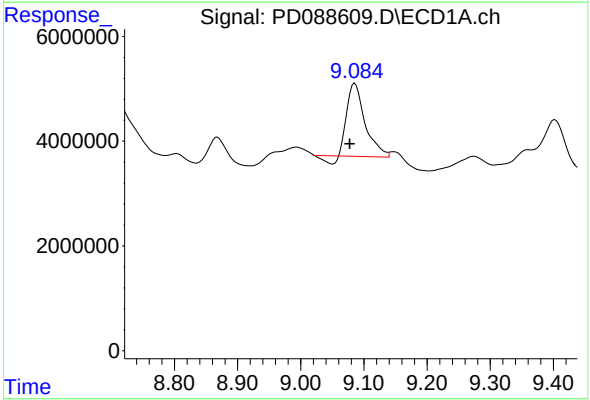
R.T.: 6.872 min
Delta R.T.: -0.002 min
Response: 867364
Conc: 5.70 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-25-050725RE



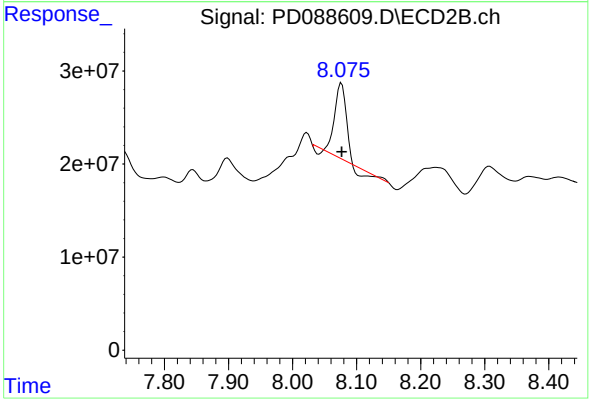
#27 Chlordane-5

R.T.: 6.073 min
Delta R.T.: -0.020 min
Response: 13474902
Conc: 13.46 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.086 min
Delta R.T.: 0.008 min
Response: 26445198
Conc: 7.73 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 83968032
Conc: 4.60 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088610.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 17:04
Operator : AR\AJ
Sample : Q1984-11RE
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725RE

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:44:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
		System Monitoring Compounds							
1)	SA	Tetrachlo...	3.551	2.882	21773920	156.2E6	10.063	10.323	
28)	SA	Decachlor...	9.079	8.077	16714772	104.0E6	4.884	5.694	
		Target Compounds							
2)	A	alpha-BHC	0.000	3.385	0	2238154	N.D.	0.094	#
3)	MA	gamma-BHC...	0.000	3.752f	0	1682000	N.D.	0.076	#
4)	MA	Heptachlor	4.956f	4.100f	7317363	27207412	1.637	1.212	#
5)	MB	Aldrin	5.298f	4.375	853582	37413047	0.194	1.706	#
6)	B	beta-BHC	4.537f	0.000	184170	0	0.102	N.D.	#
7)	B	delta-BHC	4.781f	4.273	2221450	4281594	0.526	0.192	#
8)	B	Heptachlo...	5.684	4.876	13976281	7332331	3.521	0.369	#
10)	B	gamma-Chl...	5.949	5.130	2852172	51299890	0.715	2.405	#
11)	B	alpha-Chl...	6.034	5.193	3740857	130.9E6	0.934	6.344	#
12)	B	4,4'-DDE	6.198	5.378	5503518	144.1E6	1.533	6.892	#
13)	MA	Dieldrin	0.000	5.510	0	3842010	N.D.	0.183	#
14)	MA	Endrin	6.577	5.798	7720952	180.8E6	2.261	9.375	#
15)	B	Endosulfa...	6.771f	0.000	3882315	0	1.127	N.D.	#
16)	A	4,4'-DDD	6.722	0.000	8431665	0	3.027	N.D.	#
17)	MA	4,4'-DDT	7.023	6.188	567210	20396758	0.182	1.125	#
18)	B	Endrin al...	0.000	6.254	0	68273184	N.D.	4.902	#
19)	B	Endosulfa...	7.145	6.457f	154424	689686	0.048	0.039	
20)	A	Methoxychlor	7.487	0.000	419143	0	0.251	N.D.	#
22)		Mirex	0.000	7.164f	0	13204957	N.D.	0.869	#
23)		Chlordane-1	4.716	3.908	576650	22407270	3.200	27.116	#
24)		Chlordane-2	5.248	4.491	4202169	131.3E6	22.899	155.574	#
25)		Chlordane-3	5.949	5.130	2852172	51299890	3.855	19.455	#
26)		Chlordane-4	6.034	5.193	3740857	130.9E6	4.174	59.142	#

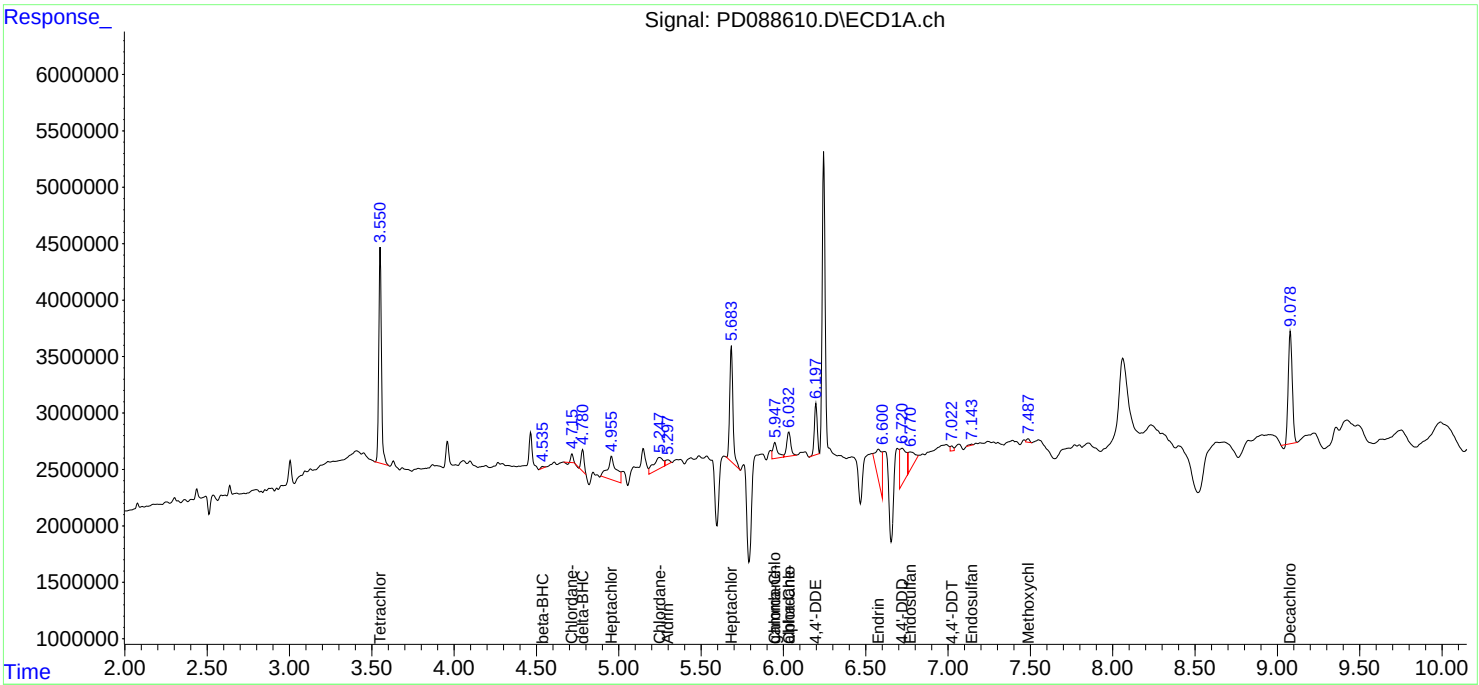
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

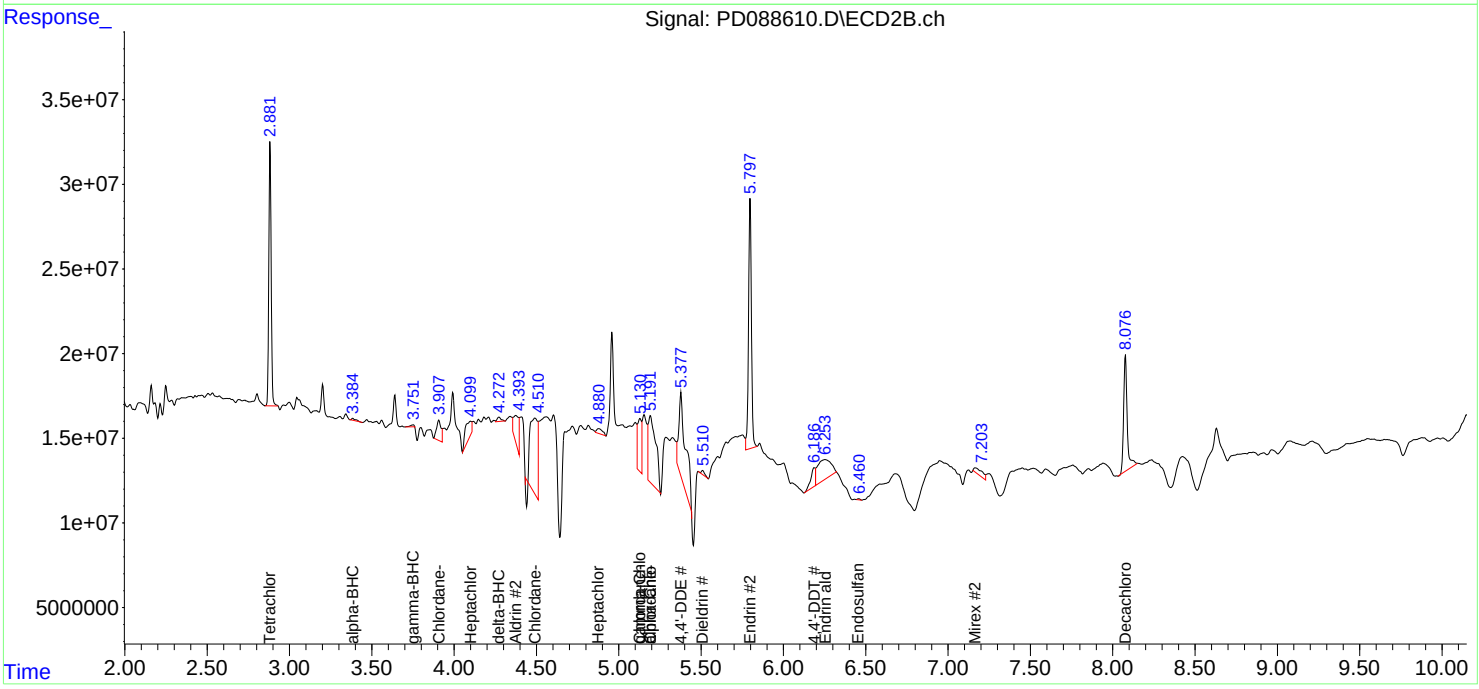
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088610.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 17:04
Operator : AR\AJ
Sample : Q1984-11RE
Misc :
ALS Vial : 25 Sample Multiplier: 1

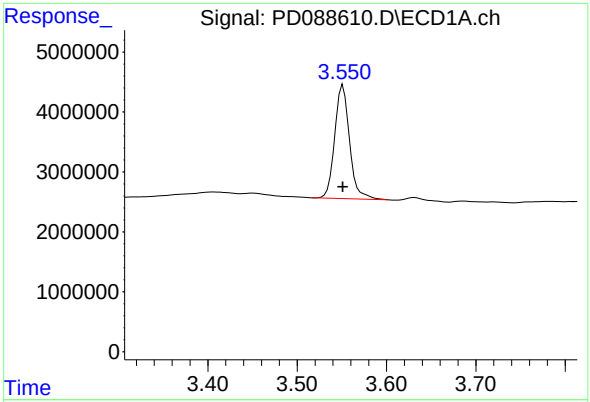
Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725RE

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:44:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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



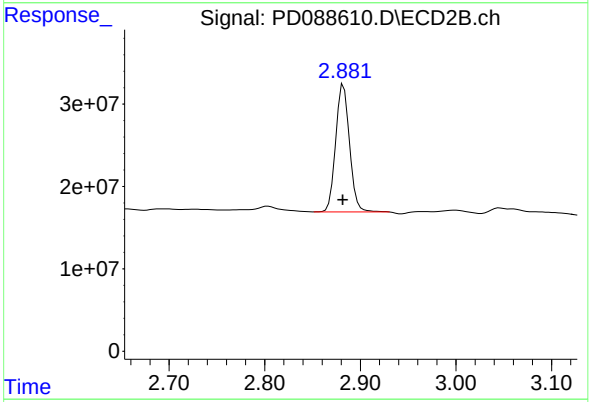




#1 Tetrachloro-m-xylene

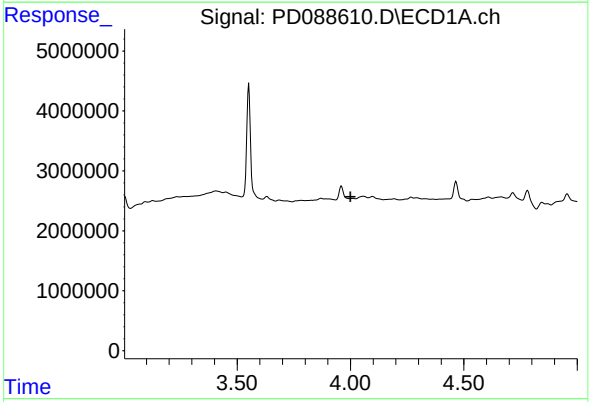
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 21773920
Conc: 10.06 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725RE



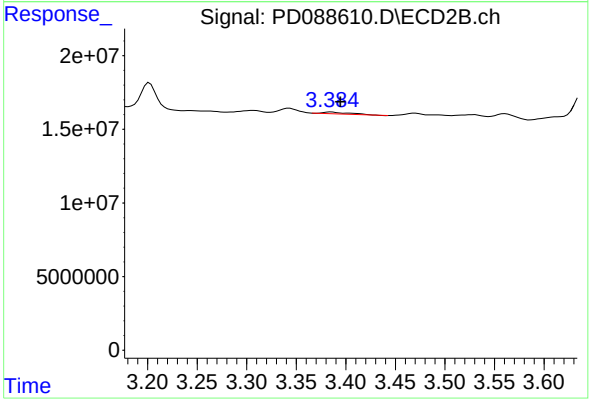
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 156153404
Conc: 10.32 ng/ml



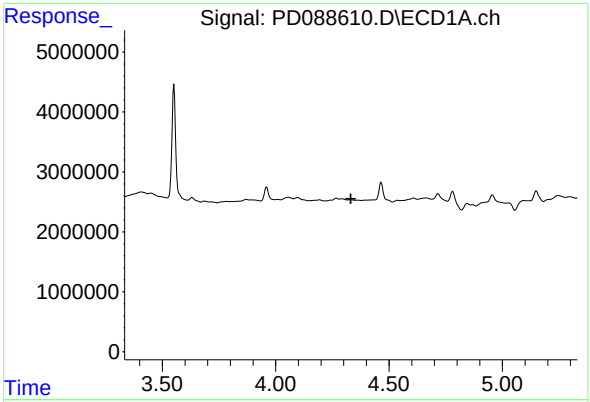
#2 alpha-BHC

R.T.: 0.000 min
Exp R.T. : 4.000 min
Response: 0
Conc: N.D.



#2 alpha-BHC

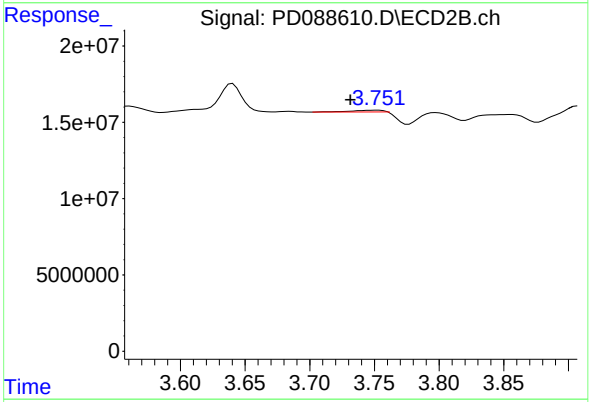
R.T.: 3.385 min
Delta R.T.: -0.009 min
Response: 2238154
Conc: 0.09 ng/ml



#3 gamma-BHC (Lindane)

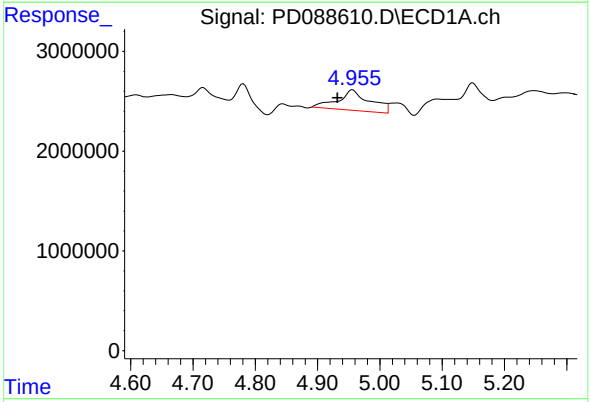
R.T.: 0.000 min
Exp R.T. : 4.332 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725RE



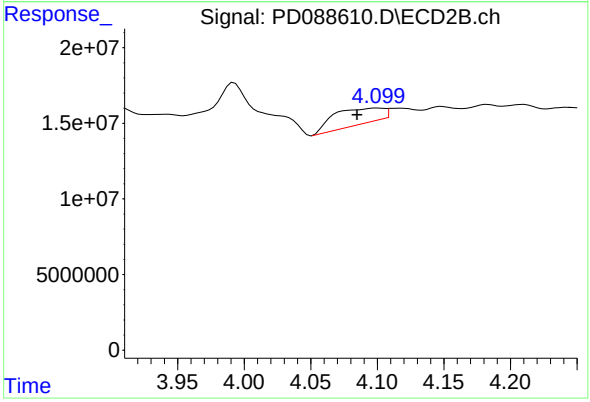
#3 gamma-BHC (Lindane)

R.T.: 3.752 min
Delta R.T.: 0.021 min
Response: 1682000
Conc: 0.08 ng/ml



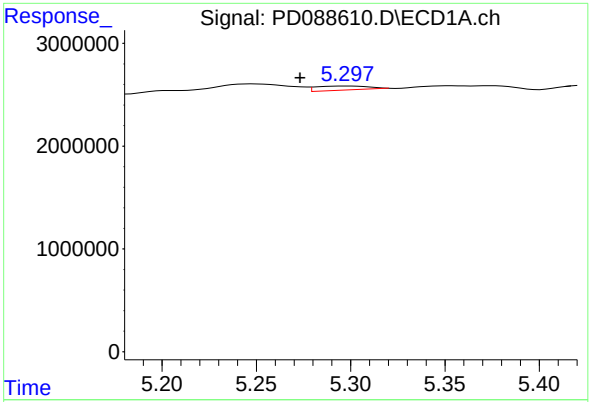
#4 Heptachlor

R.T.: 4.956 min
Delta R.T.: 0.025 min
Response: 7317363
Conc: 1.64 ng/ml



#4 Heptachlor

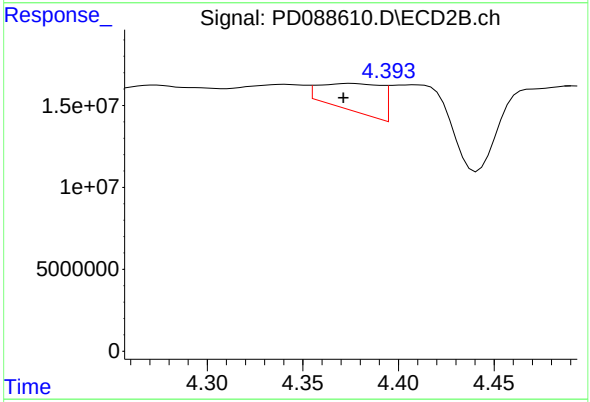
R.T.: 4.100 min
Delta R.T.: 0.015 min
Response: 27207412
Conc: 1.21 ng/ml



#5 Aldrin

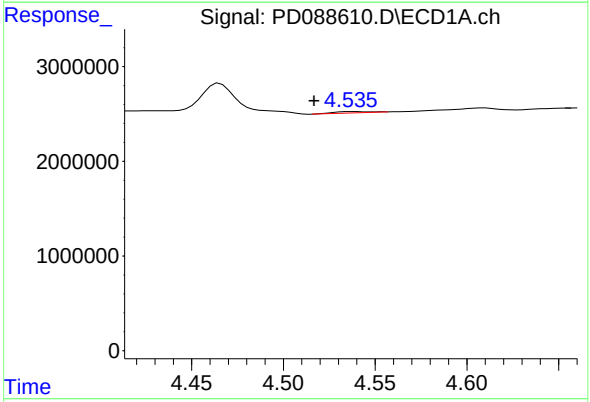
R.T.: 5.298 min
Delta R.T.: 0.025 min
Response: 853582
Conc: 0.19 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725RE



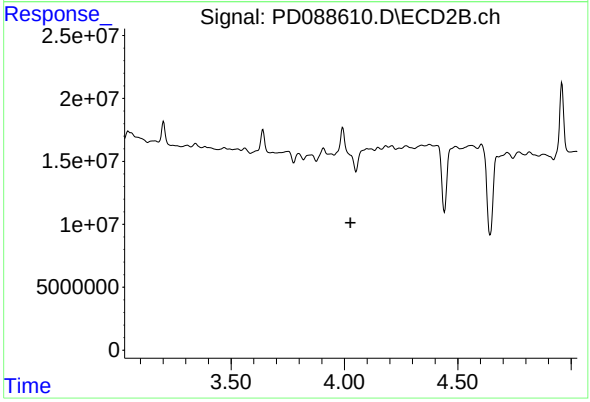
#5 Aldrin

R.T.: 4.375 min
Delta R.T.: 0.004 min
Response: 37413047
Conc: 1.71 ng/ml



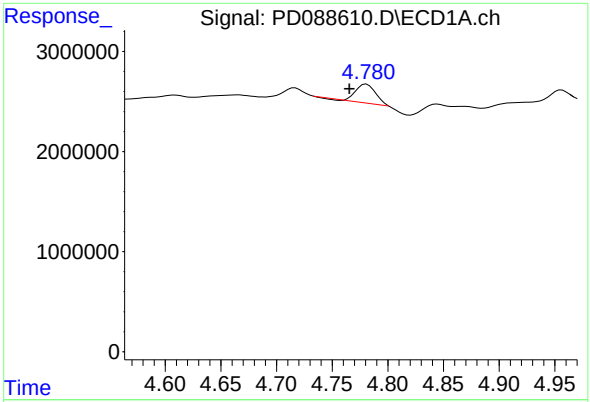
#6 beta-BHC

R.T.: 4.537 min
Delta R.T.: 0.021 min
Response: 184170
Conc: 0.10 ng/ml



#6 beta-BHC

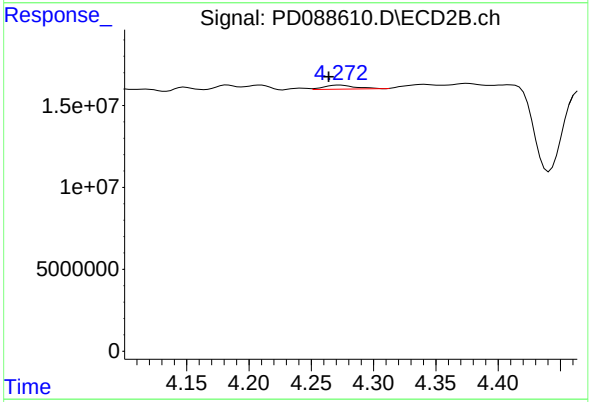
R.T.: 0.000 min
Exp R.T. : 4.027 min
Response: 0
Conc: N.D.



#7 delta-BHC

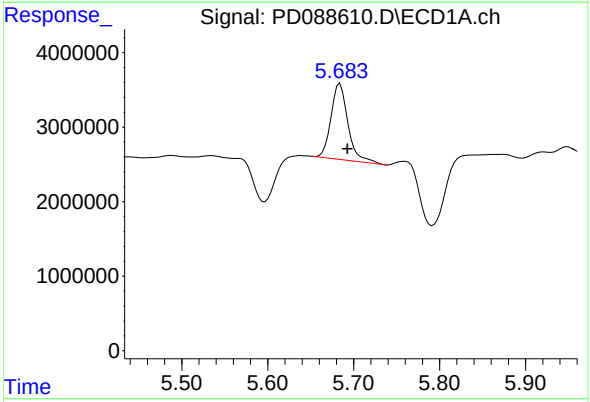
R.T.: 4.781 min
Delta R.T.: 0.015 min
Response: 2221450
Conc: 0.53 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725RE



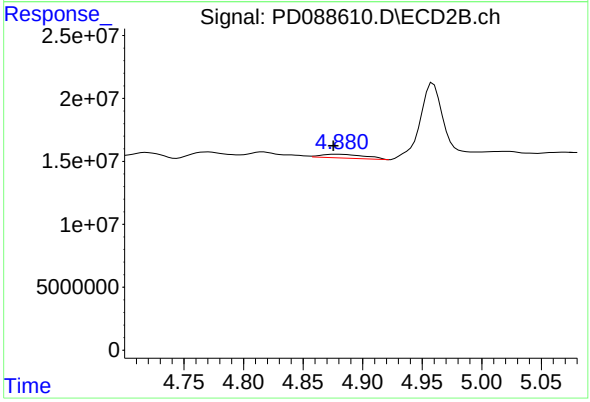
#7 delta-BHC

R.T.: 4.273 min
Delta R.T.: 0.009 min
Response: 4281594
Conc: 0.19 ng/ml



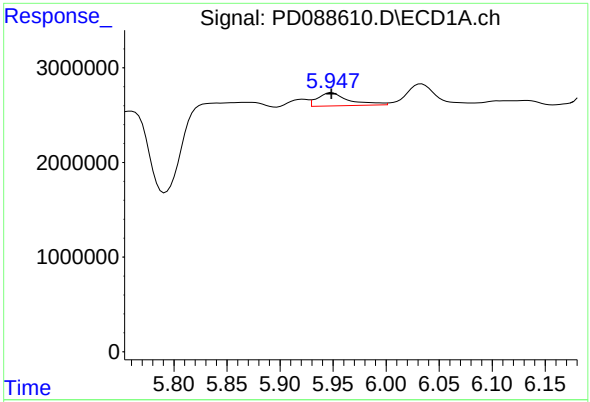
#8 Heptachlor epoxide

R.T.: 5.684 min
Delta R.T.: -0.009 min
Response: 13976281
Conc: 3.52 ng/ml



#8 Heptachlor epoxide

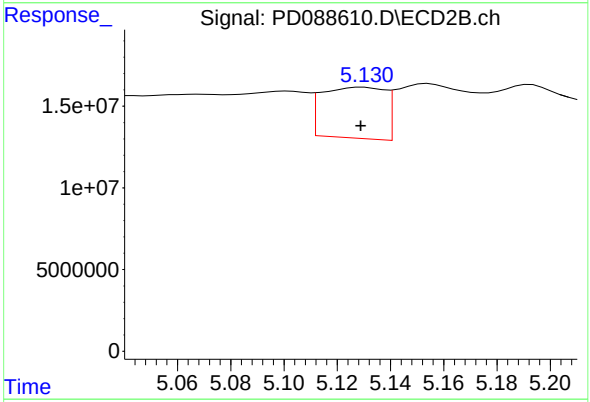
R.T.: 4.876 min
Delta R.T.: 0.000 min
Response: 7332331
Conc: 0.37 ng/ml



#10 gamma-Chlordane

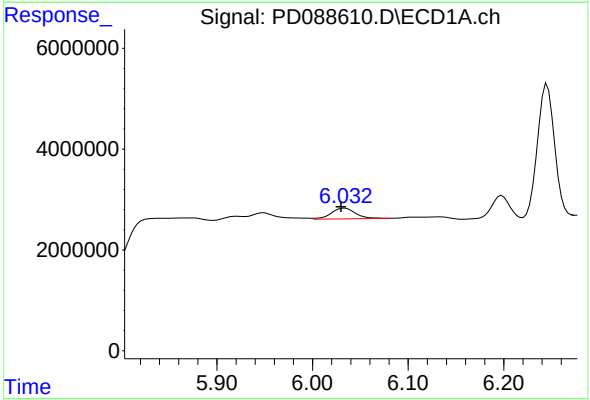
R.T.: 5.949 min
Delta R.T.: 0.000 min
Response: 2852172
Conc: 0.72 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725RE



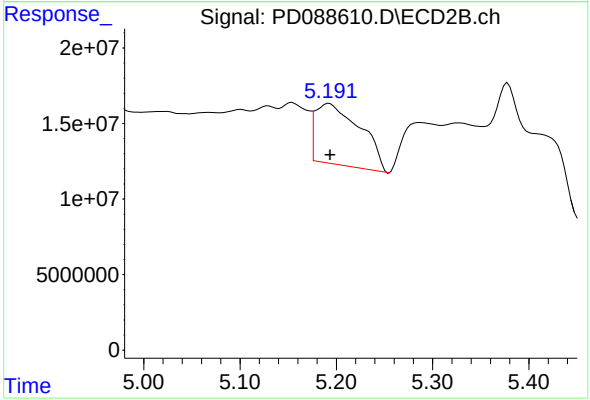
#10 gamma-Chlordane

R.T.: 5.130 min
Delta R.T.: 0.000 min
Response: 51299890
Conc: 2.40 ng/ml



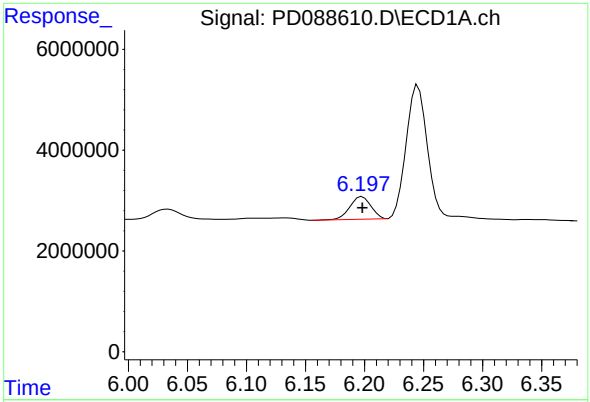
#11 alpha-Chlordane

R.T.: 6.034 min
Delta R.T.: 0.004 min
Response: 3740857
Conc: 0.93 ng/ml



#11 alpha-Chlordane

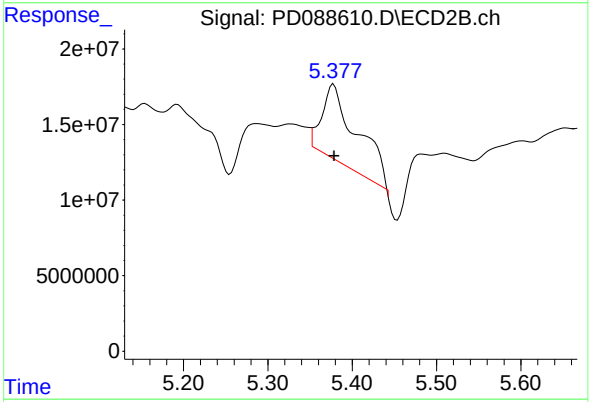
R.T.: 5.193 min
Delta R.T.: 0.000 min
Response: 130851750
Conc: 6.34 ng/ml



#12 4,4'-DDE

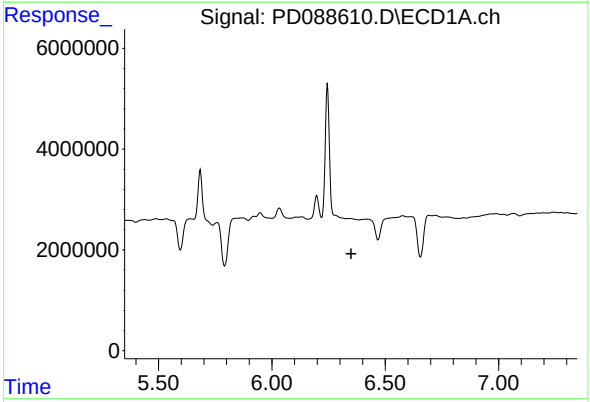
R.T.: 6.198 min
Delta R.T.: 0.000 min
Response: 5503518
Conc: 1.53 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725RE



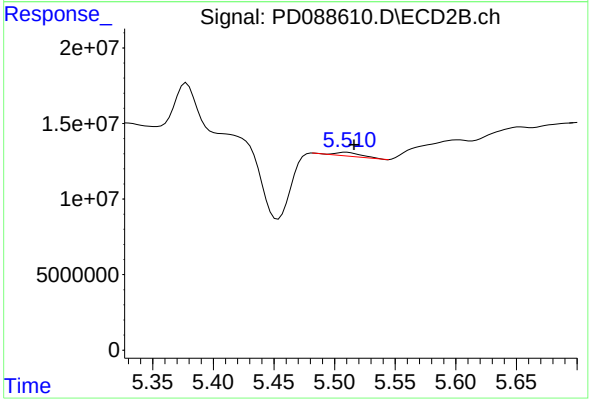
#12 4,4'-DDE

R.T.: 5.378 min
Delta R.T.: 0.000 min
Response: 144053573
Conc: 6.89 ng/ml



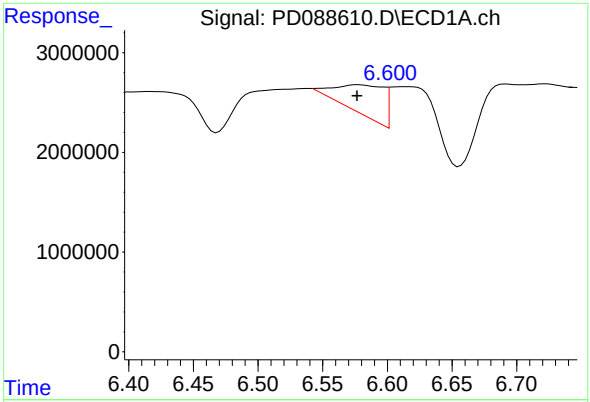
#13 Dieldrin

R.T.: 0.000 min
Exp R.T. : 6.350 min
Response: 0
Conc: N.D.



#13 Dieldrin

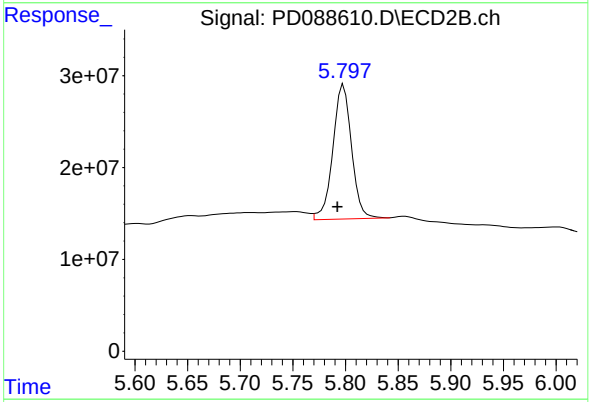
R.T.: 5.510 min
Delta R.T.: -0.006 min
Response: 3842010
Conc: 0.18 ng/ml



#14 Endrin

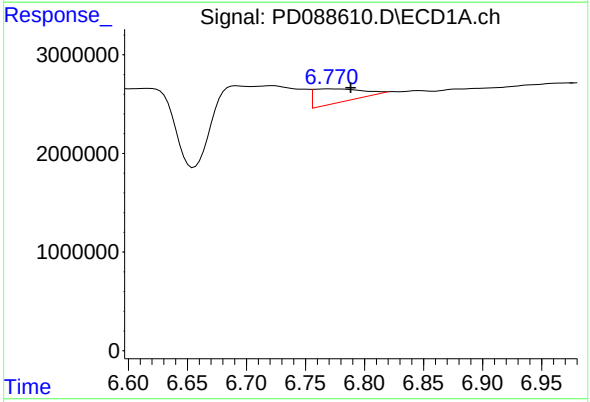
R.T.: 6.577 min
Delta R.T.: 0.000 min
Response: 7720952
Conc: 2.26 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725RE



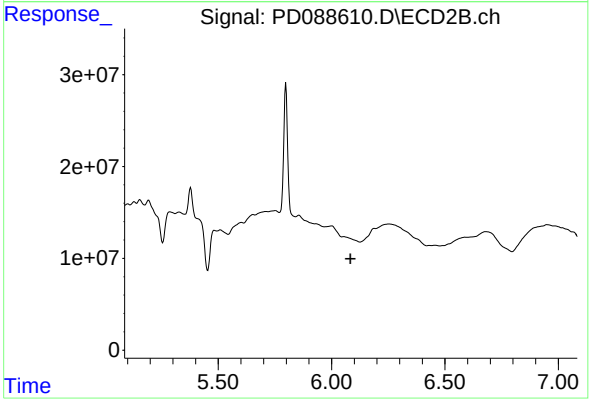
#14 Endrin

R.T.: 5.798 min
Delta R.T.: 0.006 min
Response: 180791451
Conc: 9.38 ng/ml



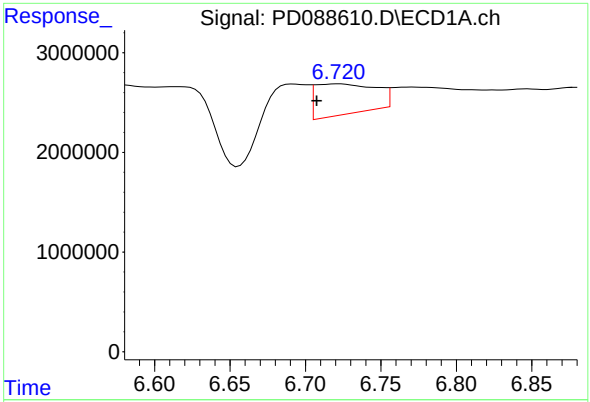
#15 Endosulfan II

R.T.: 6.771 min
Delta R.T.: -0.018 min
Response: 3882315
Conc: 1.13 ng/ml



#15 Endosulfan II

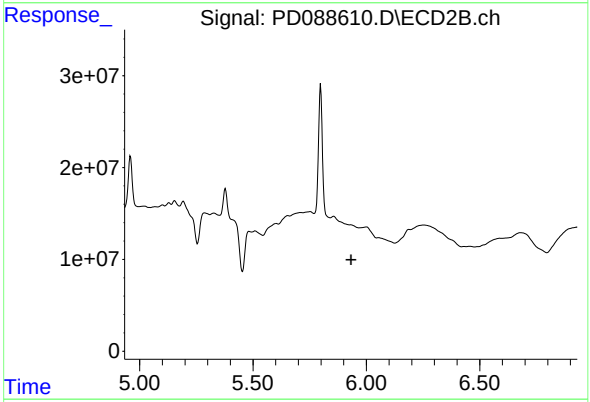
R.T.: 0.000 min
Exp R.T. : 6.084 min
Response: 0
Conc: N.D.



#16 4,4'-DDD

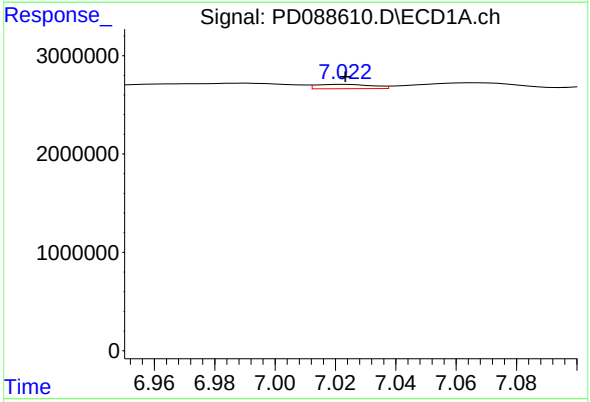
R.T.: 6.722 min
Delta R.T.: 0.015 min
Response: 8431665
Conc: 3.03 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725RE



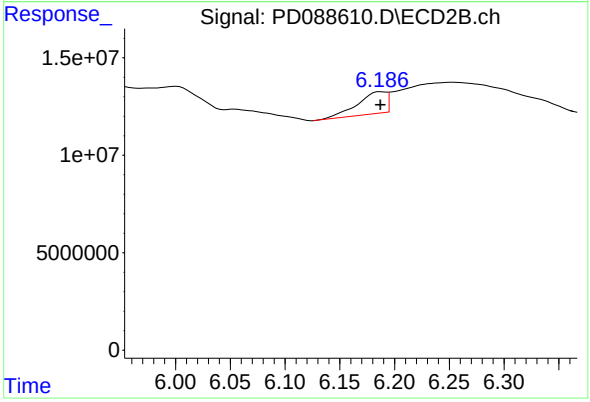
#16 4,4'-DDD

R.T.: 0.000 min
Exp R.T. : 5.933 min
Response: 0
Conc: N.D.



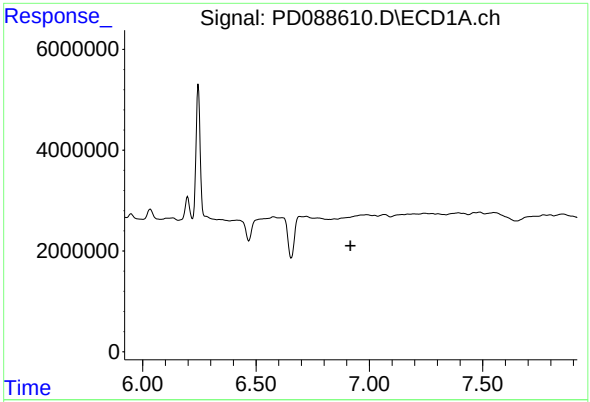
#17 4,4'-DDT

R.T.: 7.023 min
Delta R.T.: 0.000 min
Response: 567210
Conc: 0.18 ng/ml



#17 4,4'-DDT

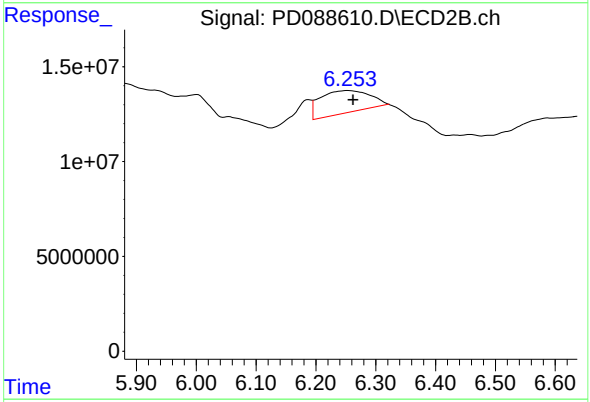
R.T.: 6.188 min
Delta R.T.: 0.000 min
Response: 20396758
Conc: 1.12 ng/ml



#18 Endrin aldehyde

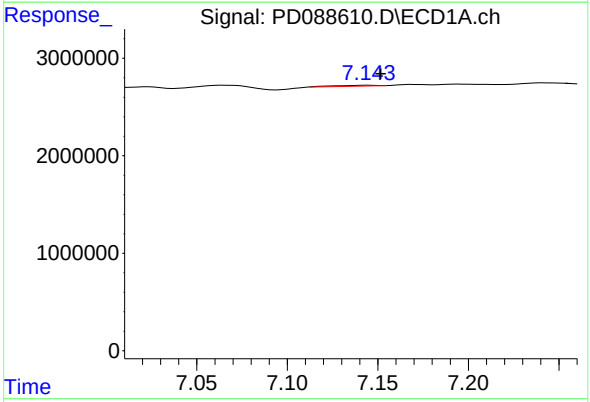
R.T.: 0.000 min
Exp R.T. : 6.917 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725RE



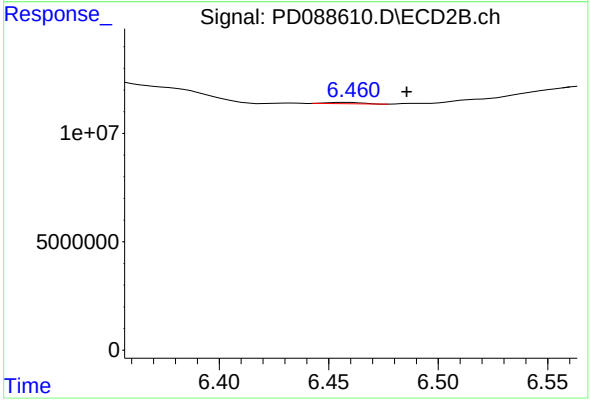
#18 Endrin aldehyde

R.T.: 6.254 min
Delta R.T.: -0.008 min
Response: 68273184
Conc: 4.90 ng/ml



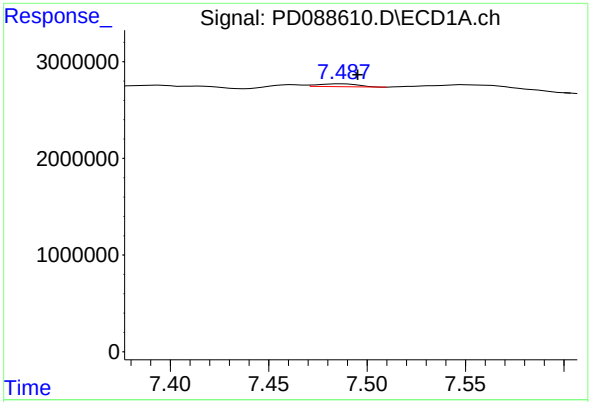
#19 Endosulfan Sulfate

R.T.: 7.145 min
Delta R.T.: -0.007 min
Response: 154424
Conc: 0.05 ng/ml



#19 Endosulfan Sulfate

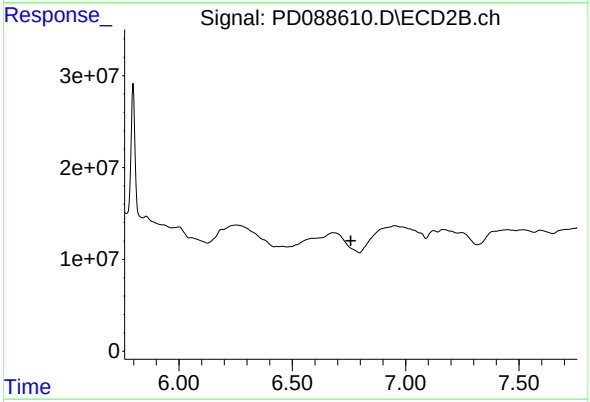
R.T.: 6.457 min
Delta R.T.: -0.029 min
Response: 689686
Conc: 0.04 ng/ml



#20 Methoxychlor

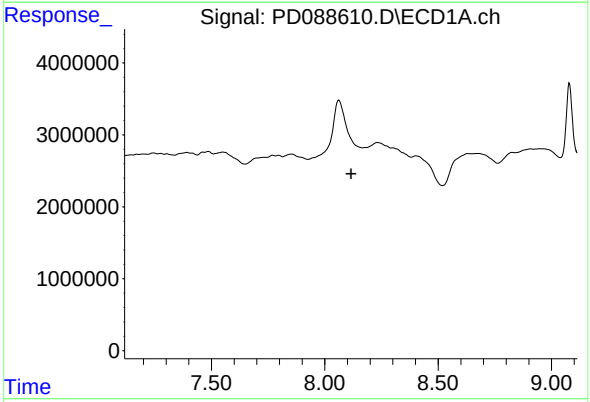
R.T.: 7.487 min
Delta R.T.: -0.008 min
Response: 419143
Conc: 0.25 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725RE



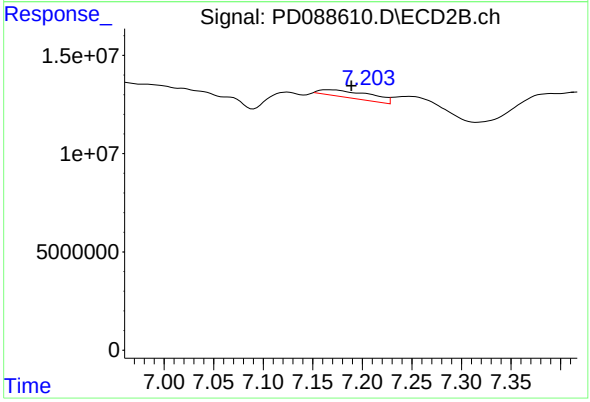
#20 Methoxychlor

R.T.: 0.000 min
Exp R.T. : 6.758 min
Response: 0
Conc: N.D.



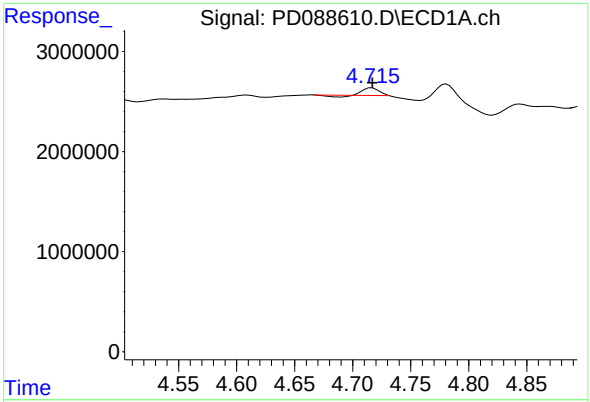
#22 Mirex

R.T.: 0.000 min
Exp R.T. : 8.117 min
Response: 0
Conc: N.D.



#22 Mirex

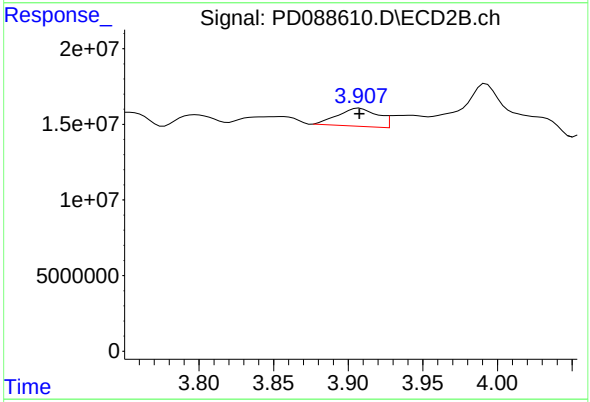
R.T.: 7.164 min
Delta R.T.: -0.025 min
Response: 13204957
Conc: 0.87 ng/ml



#23 Chlordane-1

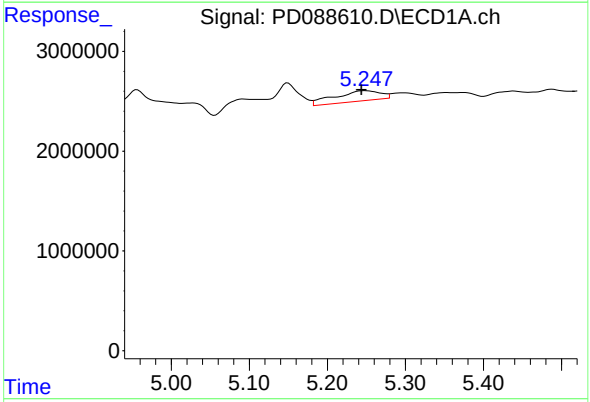
R.T.: 4.716 min
Delta R.T.: 0.000 min
Response: 576650
Conc: 3.20 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725RE



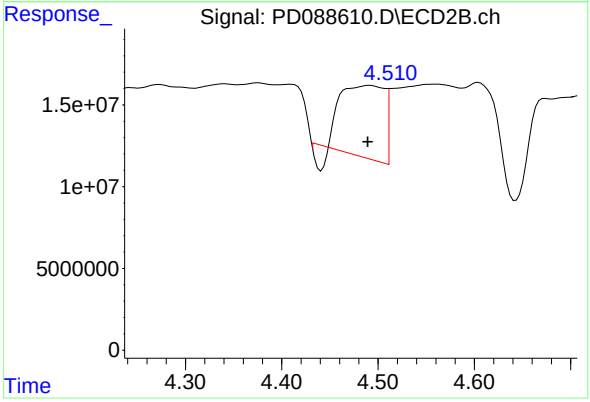
#23 Chlordane-1

R.T.: 3.908 min
Delta R.T.: 0.000 min
Response: 22407270
Conc: 27.12 ng/ml



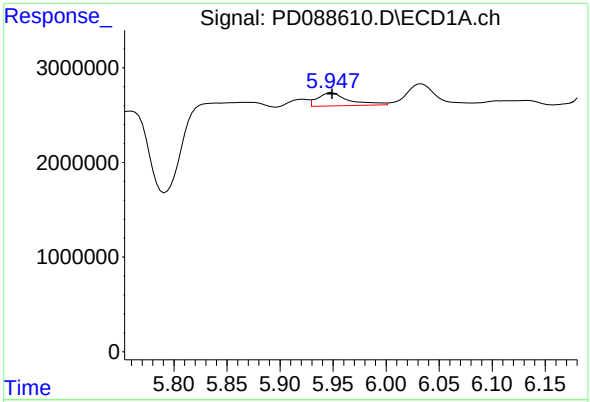
#24 Chlordane-2

R.T.: 5.248 min
Delta R.T.: 0.004 min
Response: 4202169
Conc: 22.90 ng/ml



#24 Chlordane-2

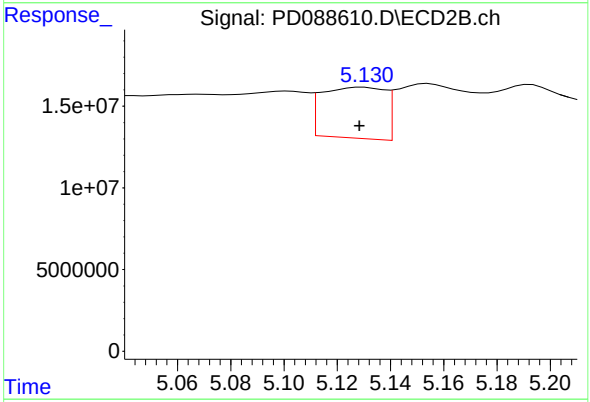
R.T.: 4.491 min
Delta R.T.: 0.002 min
Response: 131304919
Conc: 155.57 ng/ml



#25 Chlordane-3

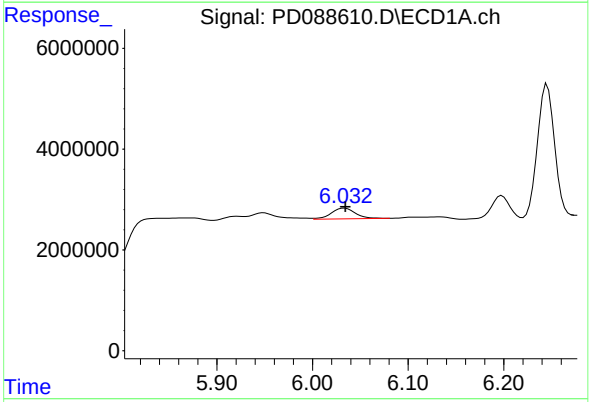
R.T.: 5.949 min
Delta R.T.: 0.000 min
Response: 2852172
Conc: 3.85 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725RE



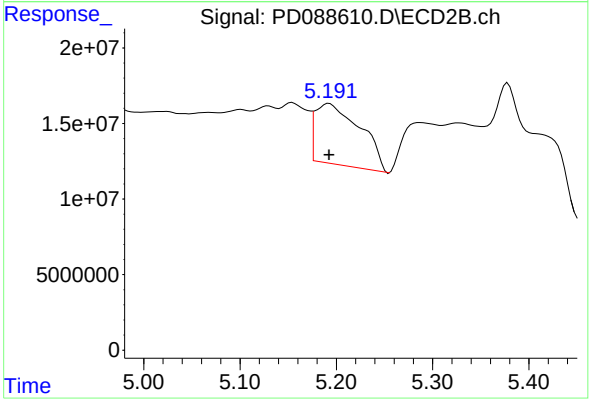
#25 Chlordane-3

R.T.: 5.130 min
Delta R.T.: 0.001 min
Response: 51299890
Conc: 19.46 ng/ml



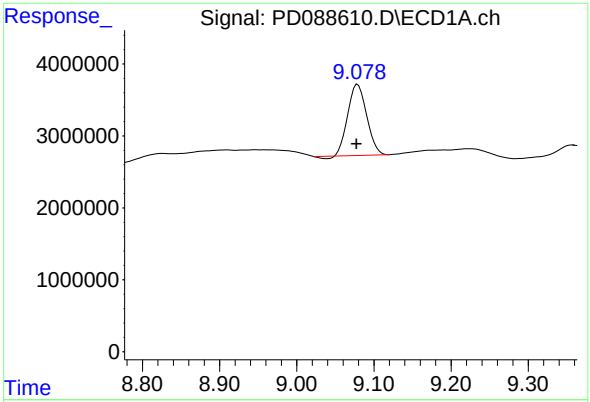
#26 Chlordane-4

R.T.: 6.034 min
Delta R.T.: 0.000 min
Response: 3740857
Conc: 4.17 ng/ml



#26 Chlordane-4

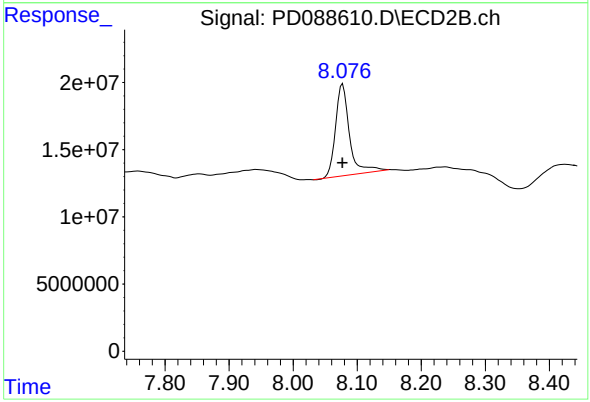
R.T.: 5.193 min
Delta R.T.: 0.000 min
Response: 130851750
Conc: 59.14 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.079 min
Delta R.T.: 0.001 min
Response: 16714772
Conc: 4.88 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-26-050725RE



#28 Decachlorobiphenyl

R.T.: 8.077 min
Delta R.T.: 0.000 min
Response: 103950658
Conc: 5.69 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088611.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 17:18
Operator : AR\AJ
Sample : Q1984-13RE
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725RE

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:44:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	System Monitoring Compounds							
1)	SA Tetrachlo...	3.551	2.895	28568294	217.6E6	13.203	14.387	
28)	SA Decachlor...	9.078	8.089	20923566	96037458	6.114	5.261	
	Target Compounds							
2)	A alpha-BHC	4.017f	3.401	10414687	-535963	2.180	N.D.	#
3)	MA gamma-BHC...	4.342	3.750f	3443864	8121022	0.748	0.366	#
4)	MA Heptachlor	4.953f	4.088	5652654	14018718	1.264	0.624	#
6)	B beta-BHC	4.536f	4.006f	512216	83772294	0.284	8.599	#
7)	B delta-BHC	4.781f	4.272	3316099	1953282	0.785	0.088	#
8)	B Heptachlo...	0.000	4.887	0	3627883	N.D.	0.183	#
9)	A Endosulfan I	6.068	0.000	285519	0	0.076	N.D.	#
10)	B gamma-Chl...	5.948	5.138	2858344	55263636	0.717	2.591	#
11)	B alpha-Chl...	6.032	5.207	4460110	47544556	1.113	2.305	#
12)	B 4,4'-DDE	6.197	5.391	3018402	26630395	0.841	1.274	#
13)	MA Dieldrin	6.352	5.527	1881651	21438725	0.469	1.019	#
14)	MA Endrin	6.580	5.808f	1575243	16251186	0.461	0.843	#
15)	B Endosulfa...	6.787	6.079	1310351	2287953	0.381	0.125	#
16)	A 4,4'-DDD	6.692f	5.904f	2663772	4250758	0.956	0.244	#
17)	MA 4,4'-DDT	7.028	6.164f	2566230	3932332	0.822	0.217	#
18)	B Endrin al...	6.941f	6.260	1479683	61867251	0.575	4.442	#
19)	B Endosulfa...	7.128f	0.000	238306	0	0.074	N.D.	#
20)	A Methoxychlor	0.000	6.743f	0	8731104	N.D.	0.912	#
21)	B Endrin ke...	7.605f	6.990	383211	-1574544	0.112	N.D.	#
22)	Mirex	0.000	7.194	0	13866270	N.D.	0.912	#
24)	Chlordane-2	5.240	4.477	2182065	2608707	11.891	3.091	#
25)	Chlordane-3	5.948	5.138	2858344	55263636	3.863	20.958	#
26)	Chlordane-4	6.032	5.207	4460110	47544556	4.977	21.489	#
27)	Chlordane-5	0.000	6.091	0	3499275	N.D.	3.496	#

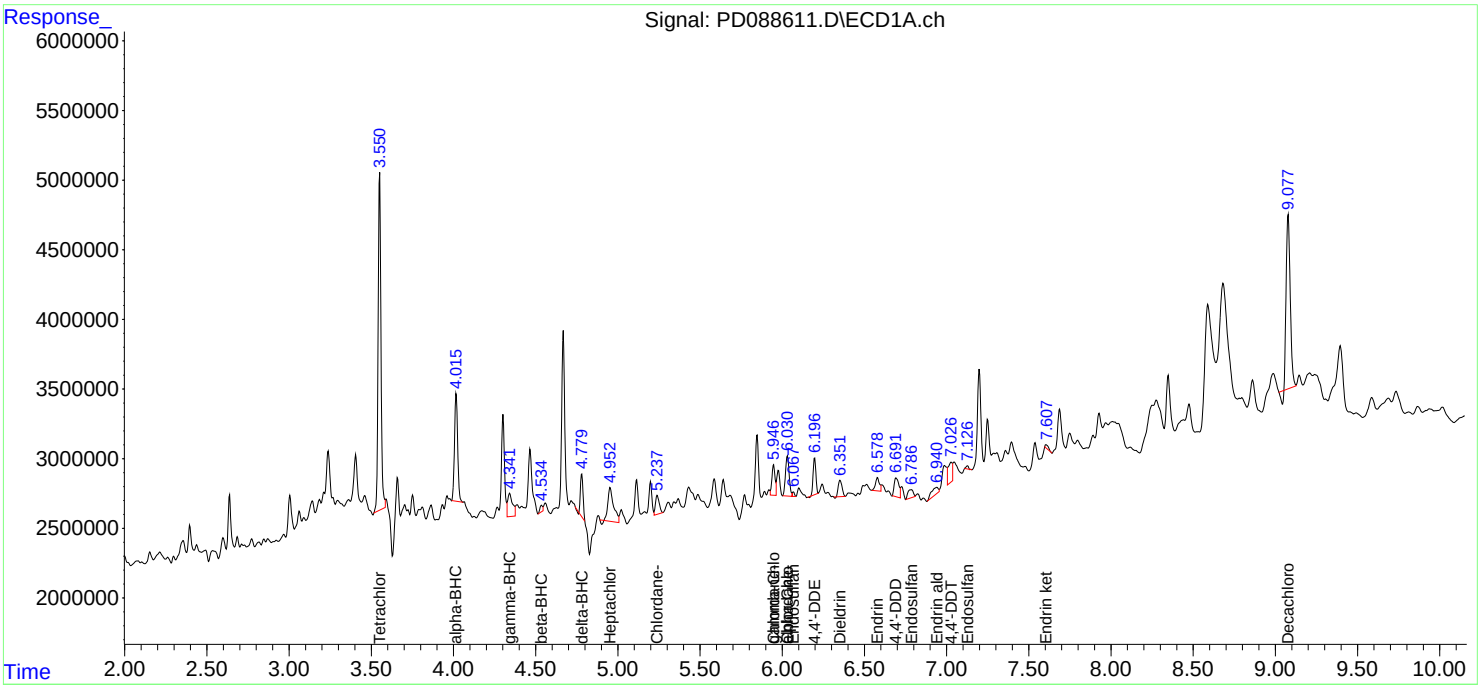
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

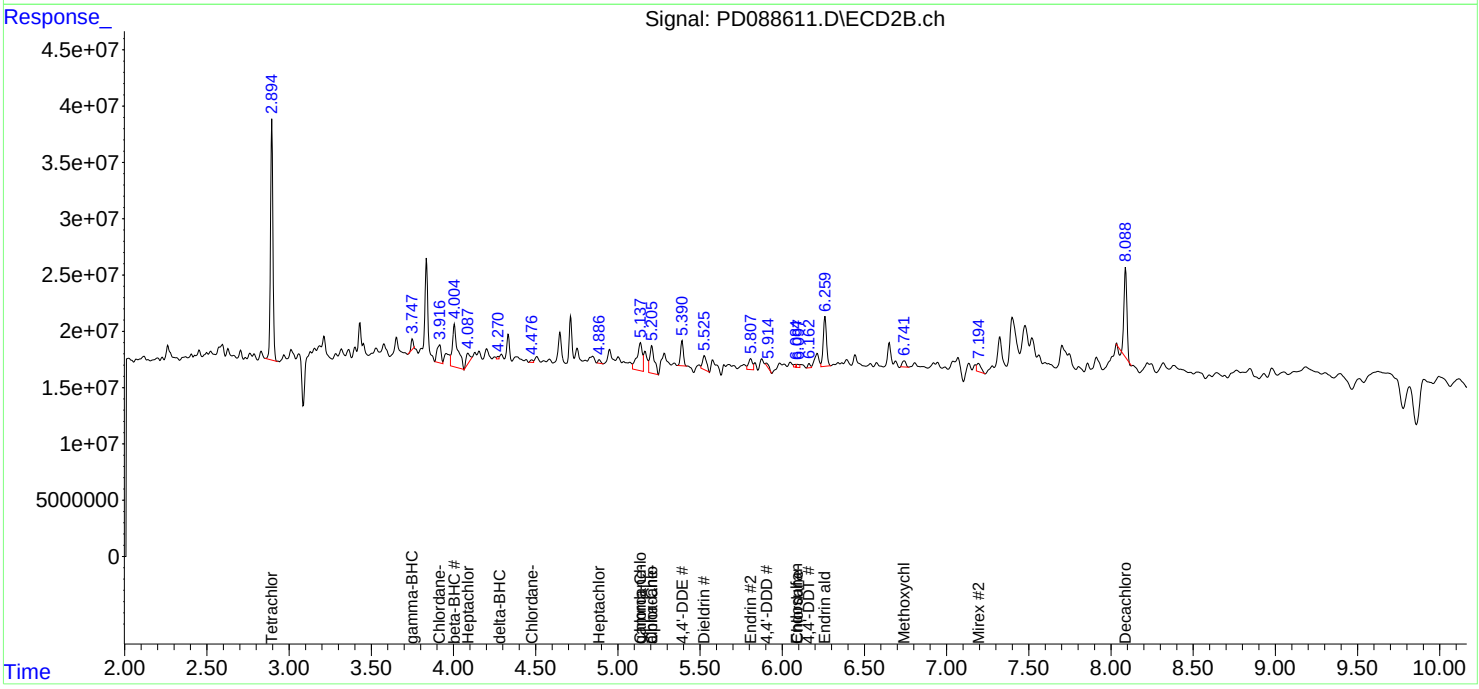
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088611.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 17:18
Operator : AR\AJ
Sample : Q1984-13RE
Misc :
ALS Vial : 26 Sample Multiplier: 1

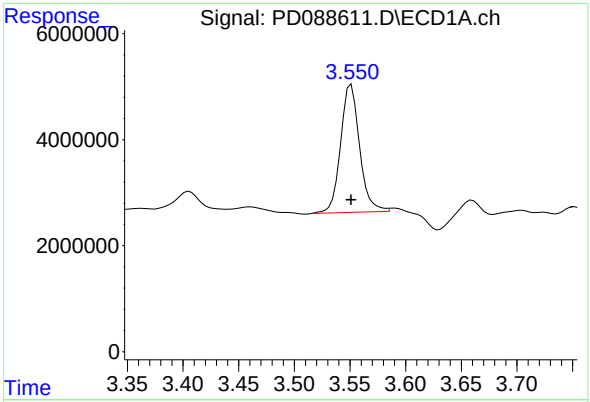
Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725RE

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:44:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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



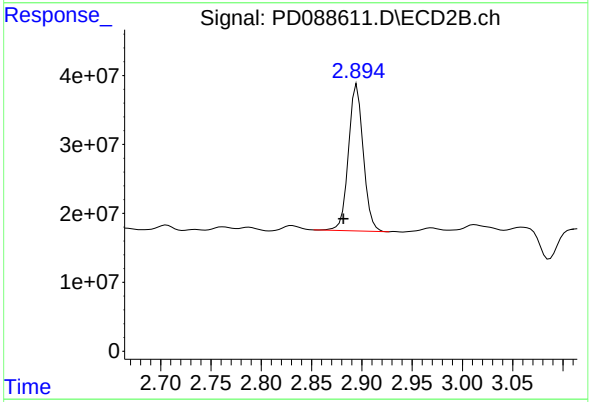




#1 Tetrachloro-m-xylene

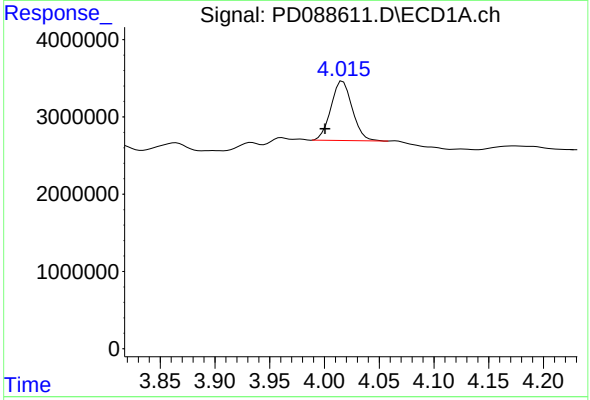
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 28568294
Conc: 13.20 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725RE



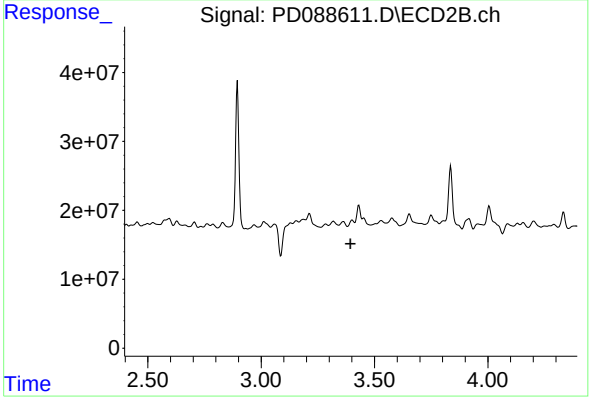
#1 Tetrachloro-m-xylene

R.T.: 2.895 min
Delta R.T.: 0.014 min
Response: 217634004
Conc: 14.39 ng/ml



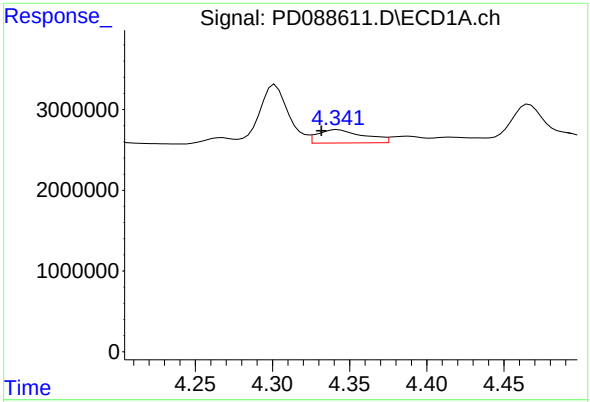
#2 alpha-BHC

R.T.: 4.017 min
Delta R.T.: 0.016 min
Response: 10414687
Conc: 2.18 ng/ml



#2 alpha-BHC

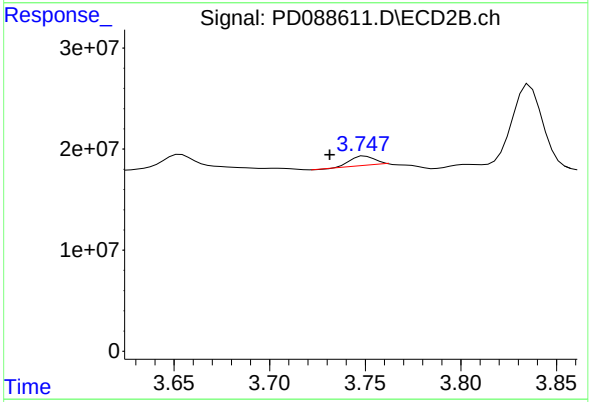
R.T.: 3.401 min
Delta R.T.: 0.007 min
Response: -535963
Conc: N.D.



#3 gamma-BHC (Lindane)

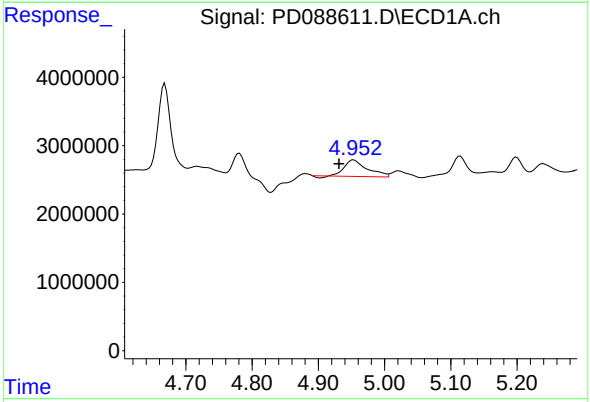
R.T.: 4.342 min
Delta R.T.: 0.011 min
Response: 3443864
Conc: 0.75 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725RE



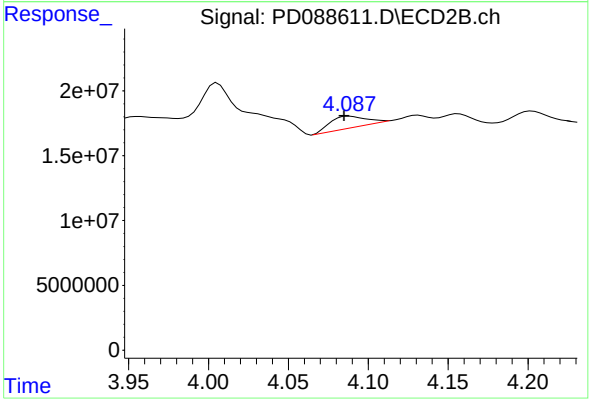
#3 gamma-BHC (Lindane)

R.T.: 3.750 min
Delta R.T.: 0.019 min
Response: 8121022
Conc: 0.37 ng/ml



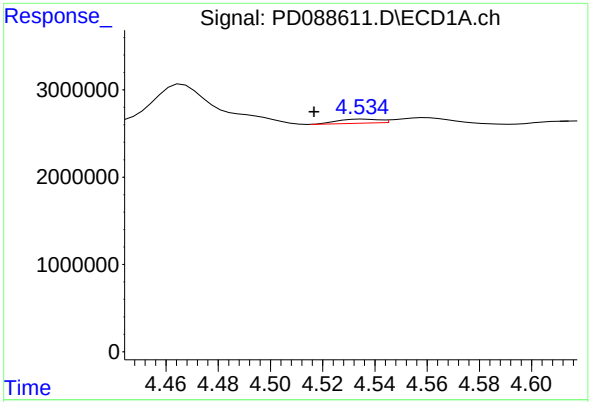
#4 Heptachlor

R.T.: 4.953 min
Delta R.T.: 0.022 min
Response: 5652654
Conc: 1.26 ng/ml



#4 Heptachlor

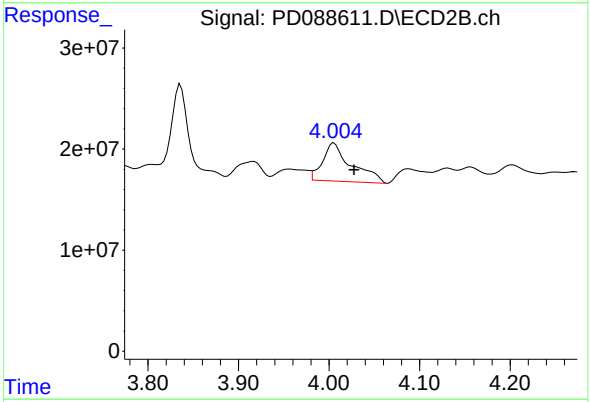
R.T.: 4.088 min
Delta R.T.: 0.003 min
Response: 14018718
Conc: 0.62 ng/ml



#6 beta-BHC

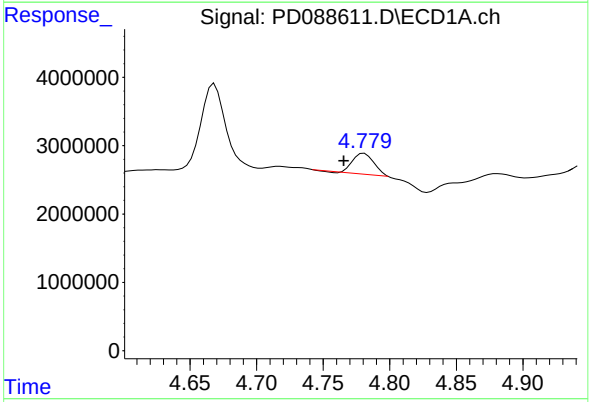
R.T.: 4.536 min
Delta R.T.: 0.019 min
Response: 512216
Conc: 0.28 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725RE



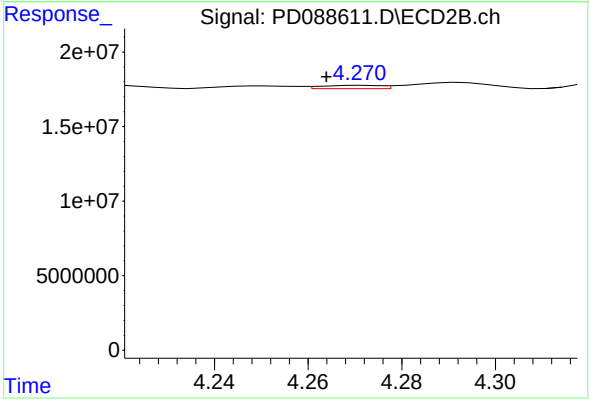
#6 beta-BHC

R.T.: 4.006 min
Delta R.T.: -0.022 min
Response: 83772294
Conc: 8.60 ng/ml



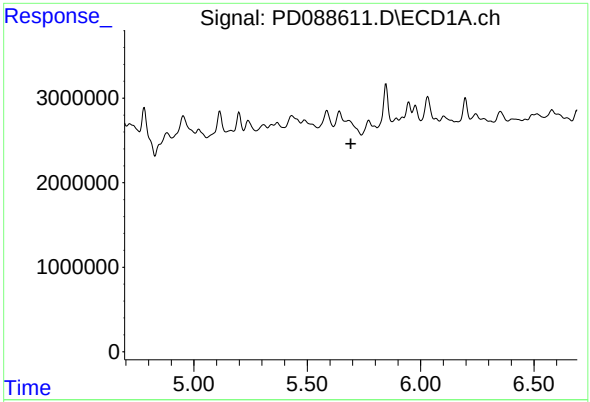
#7 delta-BHC

R.T.: 4.781 min
Delta R.T.: 0.015 min
Response: 3316099
Conc: 0.78 ng/ml



#7 delta-BHC

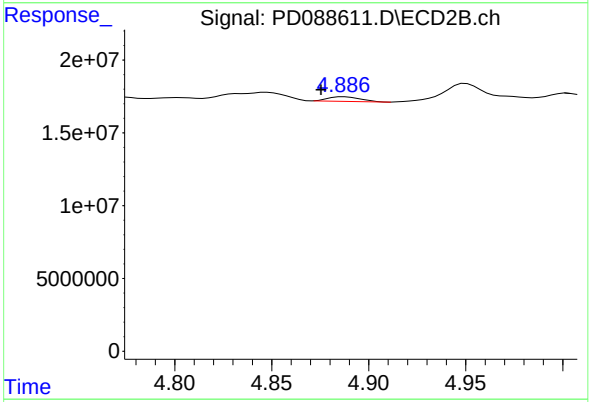
R.T.: 4.272 min
Delta R.T.: 0.008 min
Response: 1953282
Conc: 0.09 ng/ml



#8 Heptachlor epoxide

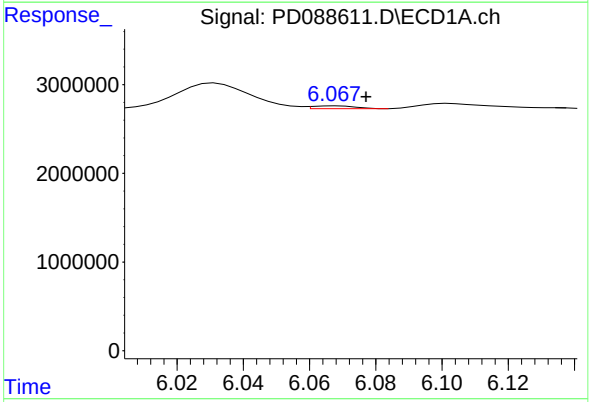
R.T.: 0.000 min
Exp R.T. : 5.693 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725RE



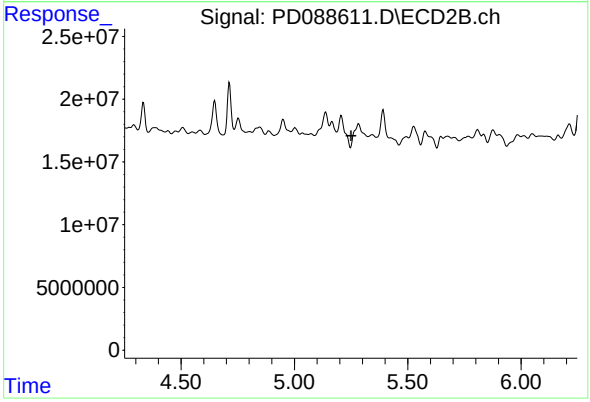
#8 Heptachlor epoxide

R.T.: 4.887 min
Delta R.T.: 0.012 min
Response: 3627883
Conc: 0.18 ng/ml



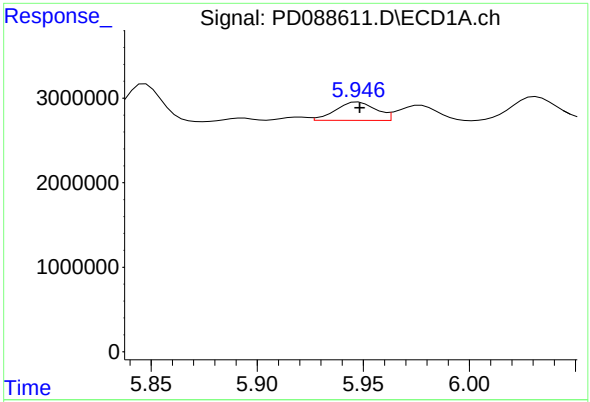
#9 Endosulfan I

R.T.: 6.068 min
Delta R.T.: -0.009 min
Response: 285519
Conc: 0.08 ng/ml



#9 Endosulfan I

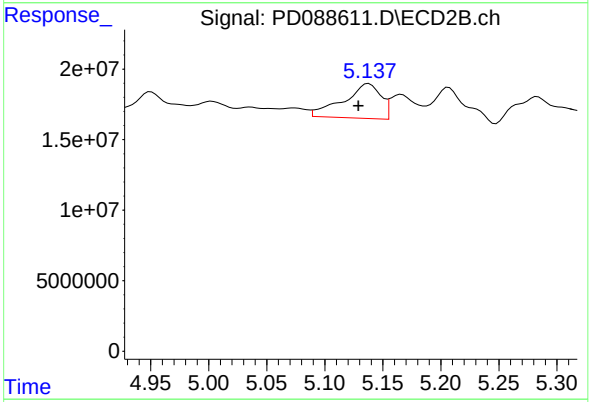
R.T.: 0.000 min
Exp R.T. : 5.250 min
Response: 0
Conc: N.D.



#10 gamma-Chlordane

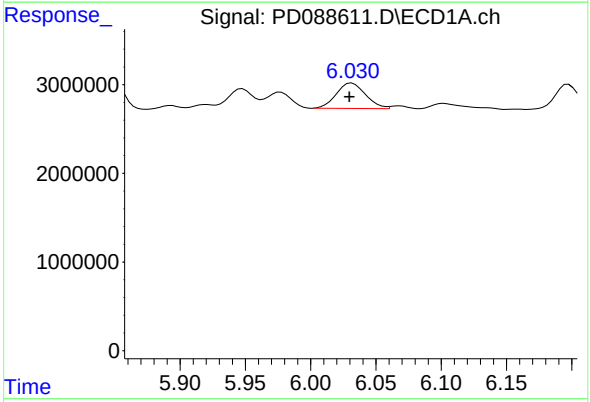
R.T.: 5.948 min
Delta R.T.: 0.000 min
Response: 2858344
Conc: 0.72 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725RE



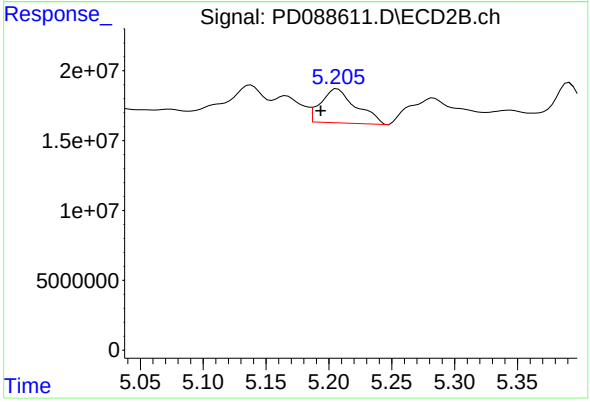
#10 gamma-Chlordane

R.T.: 5.138 min
Delta R.T.: 0.009 min
Response: 55263636
Conc: 2.59 ng/ml



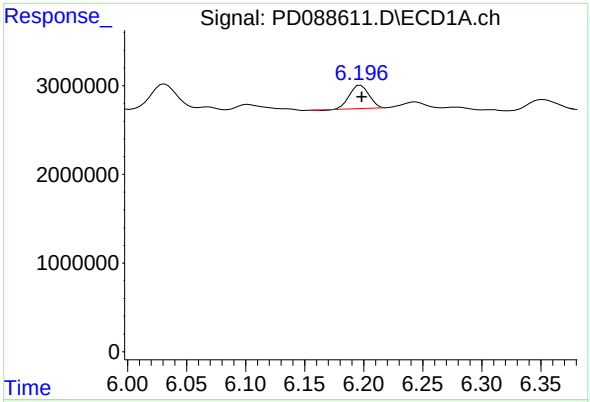
#11 alpha-Chlordane

R.T.: 6.032 min
Delta R.T.: 0.002 min
Response: 4460110
Conc: 1.11 ng/ml



#11 alpha-Chlordane

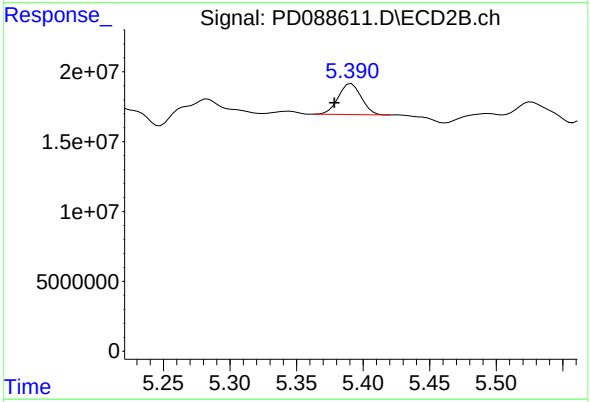
R.T.: 5.207 min
Delta R.T.: 0.013 min
Response: 47544556
Conc: 2.31 ng/ml



#12 4,4'-DDE

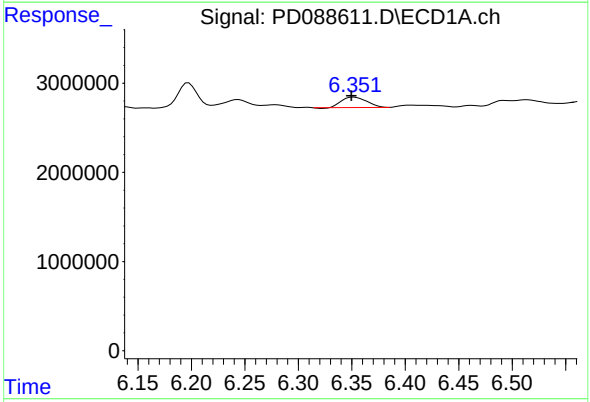
R.T.: 6.197 min
Delta R.T.: 0.000 min
Response: 3018402
Conc: 0.84 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725RE



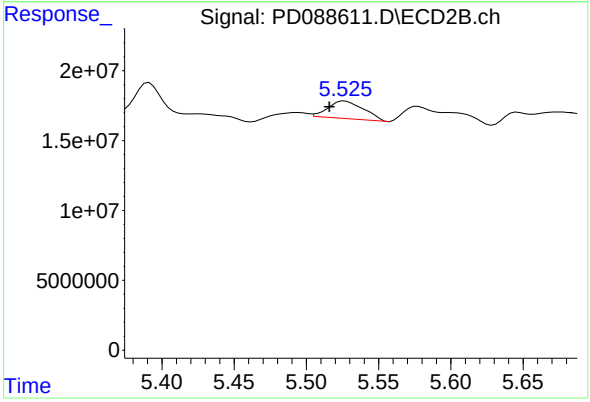
#12 4,4'-DDE

R.T.: 5.391 min
Delta R.T.: 0.013 min
Response: 26630395
Conc: 1.27 ng/ml



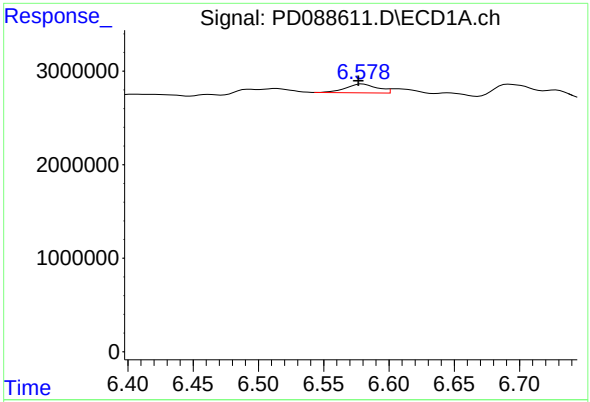
#13 Dieldrin

R.T.: 6.352 min
Delta R.T.: 0.003 min
Response: 1881651
Conc: 0.47 ng/ml



#13 Dieldrin

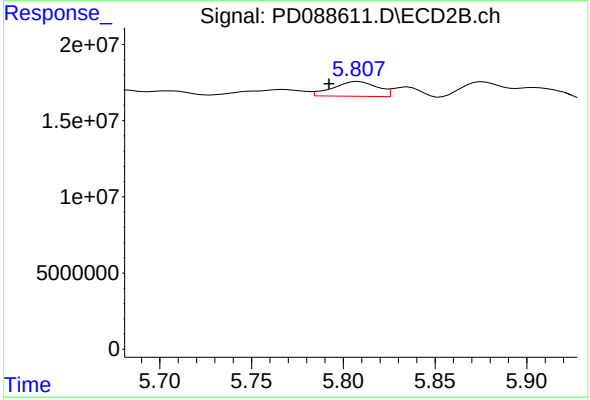
R.T.: 5.527 min
Delta R.T.: 0.011 min
Response: 21438725
Conc: 1.02 ng/ml



#14 Endrin

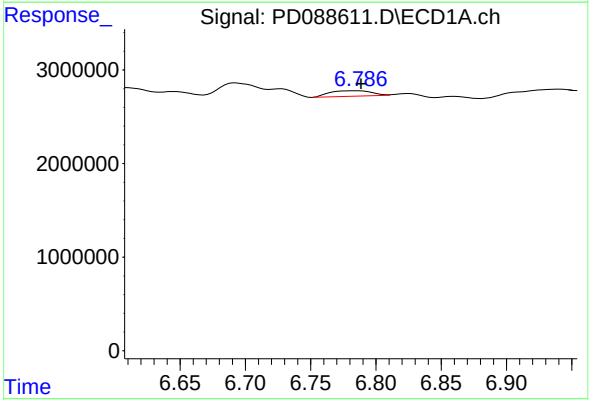
R.T.: 6.580 min
Delta R.T.: 0.003 min
Response: 1575243
Conc: 0.46 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725RE



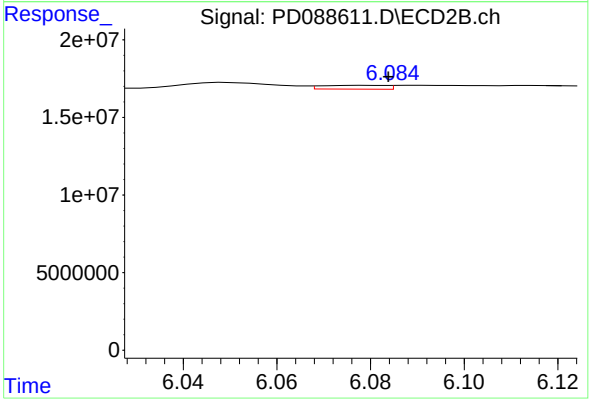
#14 Endrin

R.T.: 5.808 min
Delta R.T.: 0.016 min
Response: 16251186
Conc: 0.84 ng/ml



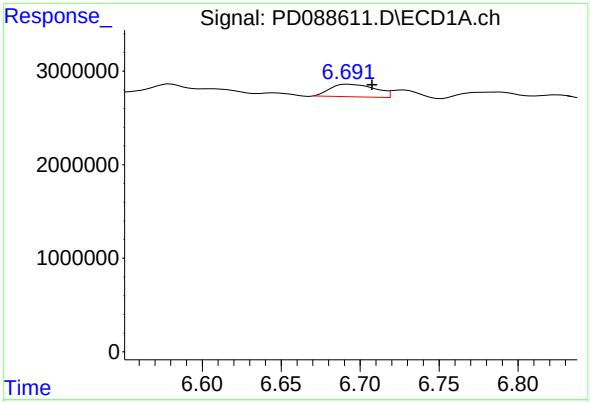
#15 Endosulfan II

R.T.: 6.787 min
Delta R.T.: -0.002 min
Response: 1310351
Conc: 0.38 ng/ml



#15 Endosulfan II

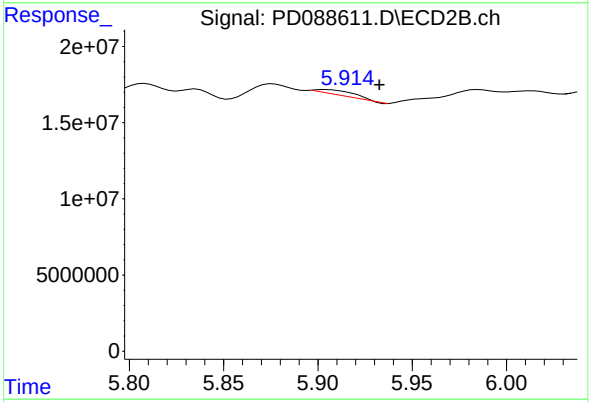
R.T.: 6.079 min
Delta R.T.: -0.005 min
Response: 2287953
Conc: 0.12 ng/ml



#16 4,4'-DDD

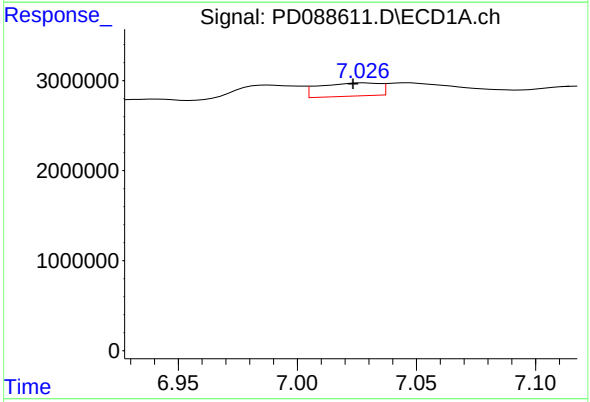
R.T.: 6.692 min
Delta R.T.: -0.015 min
Response: 2663772
Conc: 0.96 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725RE



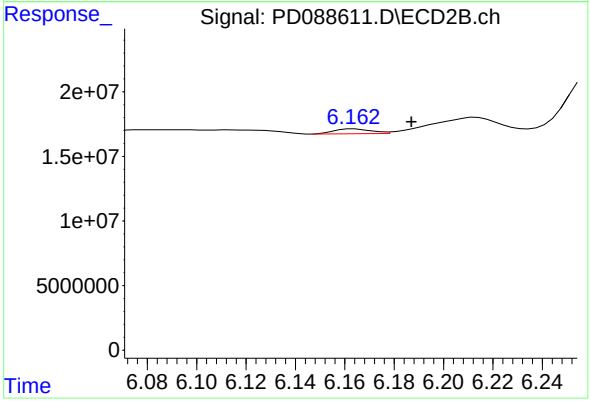
#16 4,4'-DDD

R.T.: 5.904 min
Delta R.T.: -0.028 min
Response: 4250758
Conc: 0.24 ng/ml



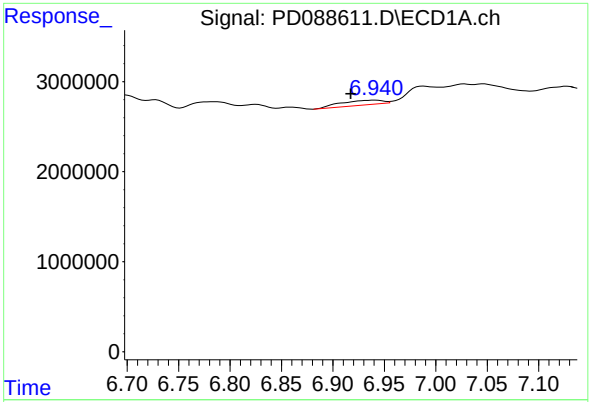
#17 4,4'-DDT

R.T.: 7.028 min
Delta R.T.: 0.005 min
Response: 2566230
Conc: 0.82 ng/ml



#17 4,4'-DDT

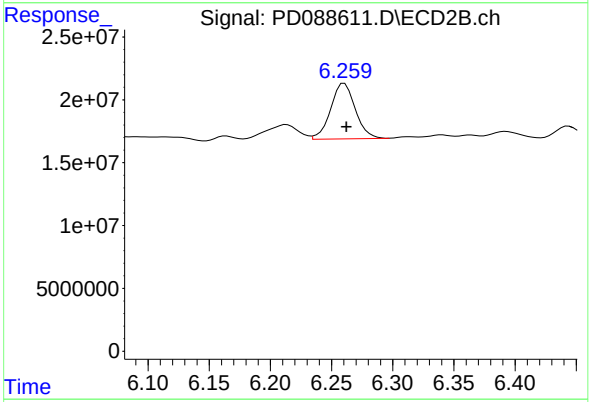
R.T.: 6.164 min
Delta R.T.: -0.023 min
Response: 3932332
Conc: 0.22 ng/ml



#18 Endrin aldehyde

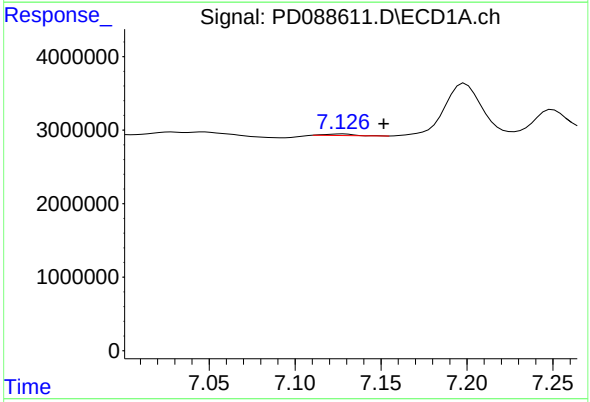
R.T.: 6.941 min
Delta R.T.: 0.023 min
Response: 1479683
Conc: 0.57 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725RE



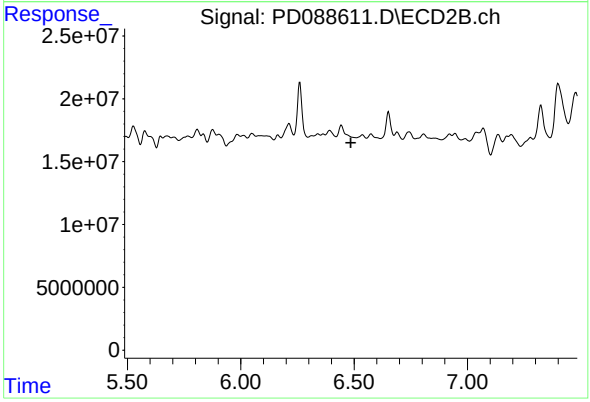
#18 Endrin aldehyde

R.T.: 6.260 min
Delta R.T.: -0.002 min
Response: 61867251
Conc: 4.44 ng/ml



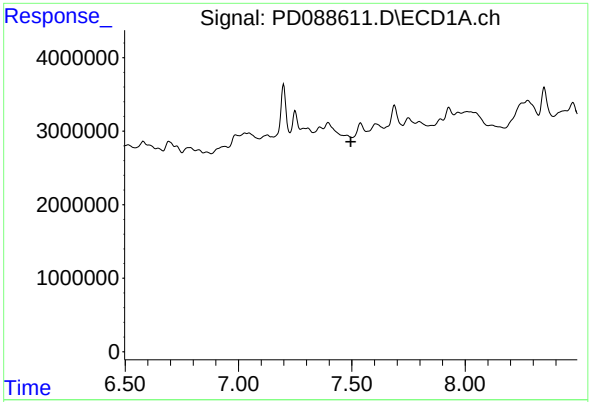
#19 Endosulfan Sulfate

R.T.: 7.128 min
Delta R.T.: -0.024 min
Response: 238306
Conc: 0.07 ng/ml



#19 Endosulfan Sulfate

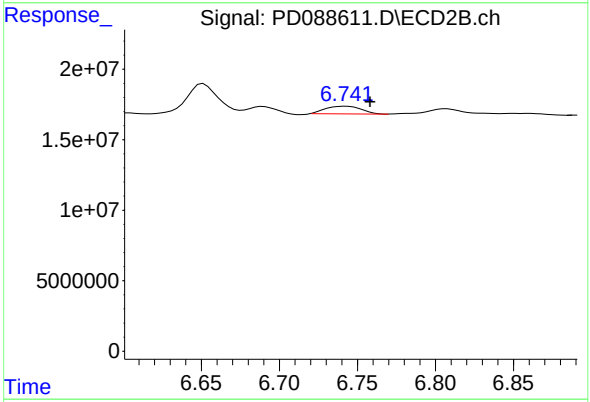
R.T.: 0.000 min
Exp R.T. : 6.486 min
Response: 0
Conc: N.D.



#20 Methoxychlor

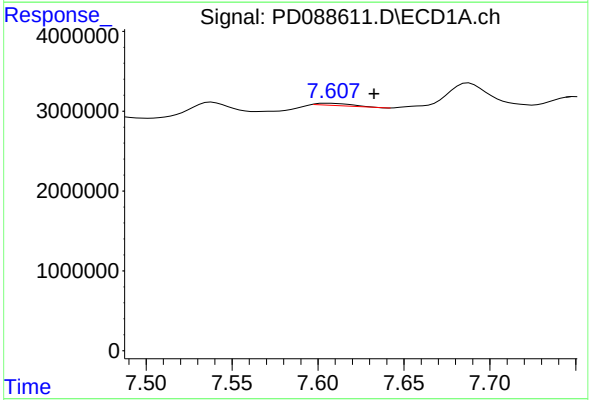
R.T.: 0.000 min
Exp R.T. : 7.495 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725RE



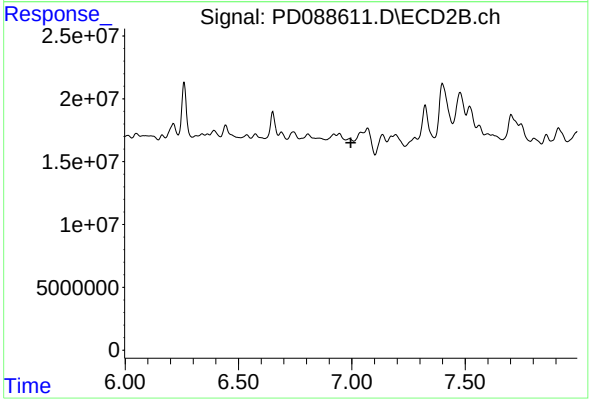
#20 Methoxychlor

R.T.: 6.743 min
Delta R.T.: -0.015 min
Response: 8731104
Conc: 0.91 ng/ml



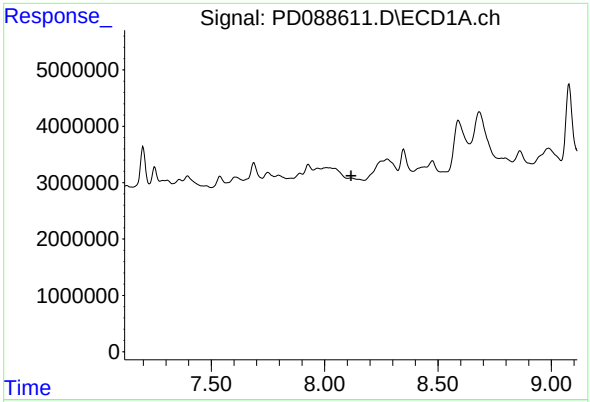
#21 Endrin ketone

R.T.: 7.605 min
Delta R.T.: -0.027 min
Response: 383211
Conc: 0.11 ng/ml



#21 Endrin ketone

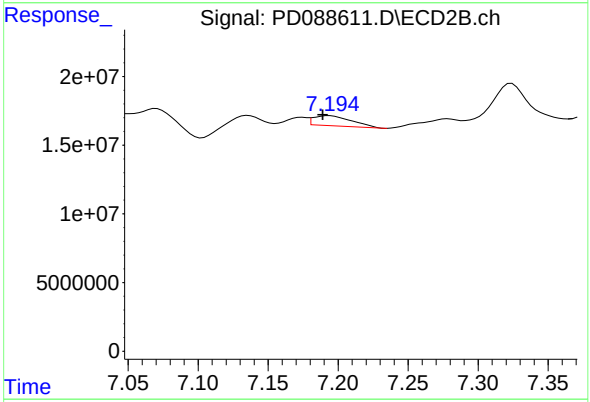
R.T.: 6.990 min
Delta R.T.: -0.005 min
Response: -1574544
Conc: N.D.



#22 Mirex

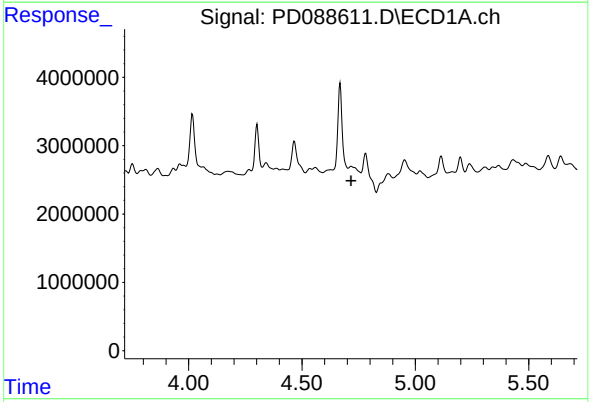
R.T.: 0.000 min
Exp R.T. : 8.117 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725RE



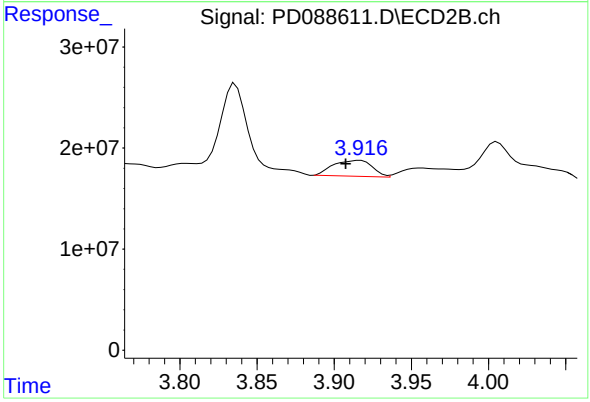
#22 Mirex

R.T.: 7.194 min
Delta R.T.: 0.005 min
Response: 13866270
Conc: 0.91 ng/ml



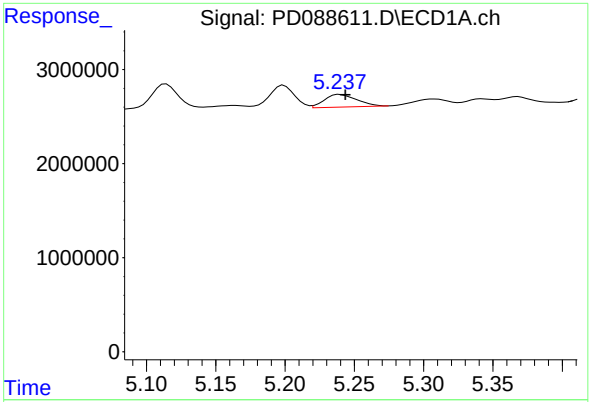
#23 Chlordane-1

R.T.: 4.717 min
Delta R.T.: 0.000 min
Response: -7773706
Conc: N.D.



#23 Chlordane-1

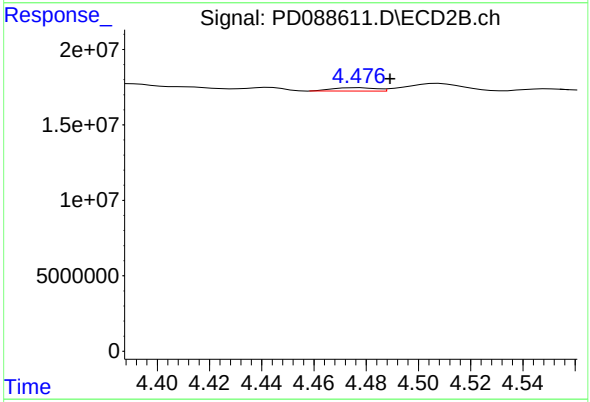
R.T.: 3.917 min
Delta R.T.: 0.009 min
Response: 27869168
Conc: 33.73 ng/ml



#24 Chlordane-2

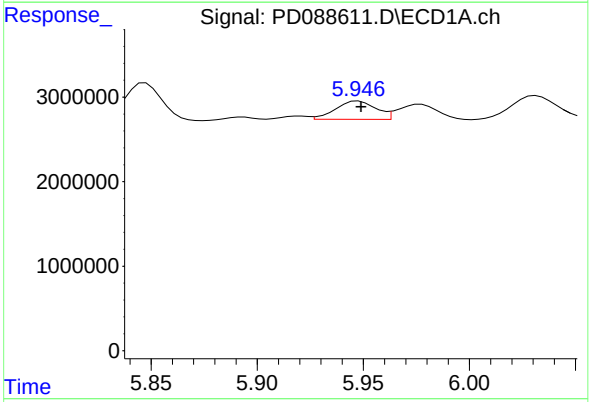
R.T.: 5.240 min
Delta R.T.: -0.004 min
Response: 2182065
Conc: 11.89 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725RE



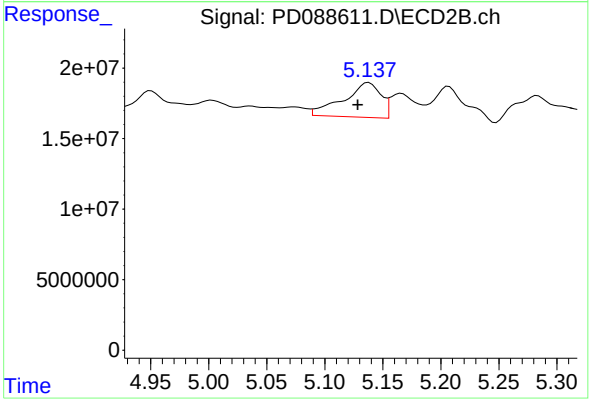
#24 Chlordane-2

R.T.: 4.477 min
Delta R.T.: -0.012 min
Response: 2608707
Conc: 3.09 ng/ml



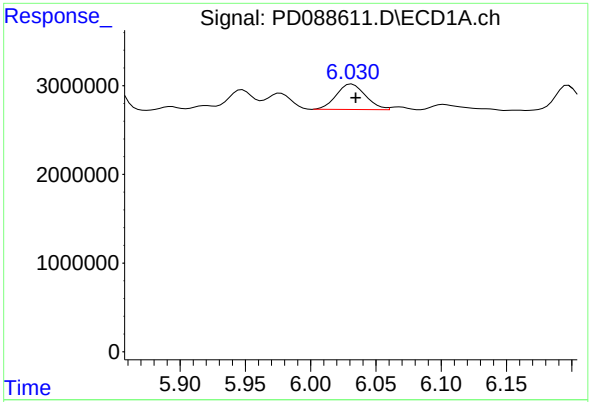
#25 Chlordane-3

R.T.: 5.948 min
Delta R.T.: -0.001 min
Response: 2858344
Conc: 3.86 ng/ml



#25 Chlordane-3

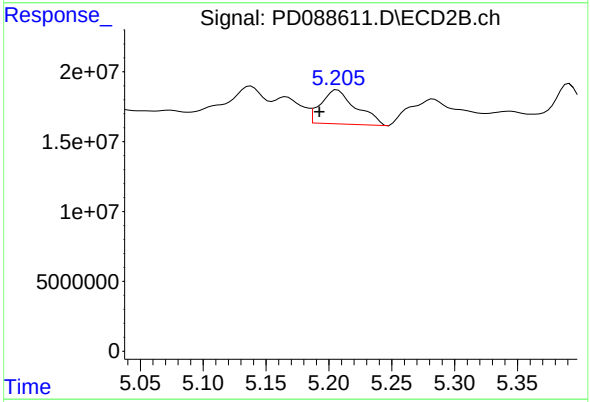
R.T.: 5.138 min
Delta R.T.: 0.010 min
Response: 55263636
Conc: 20.96 ng/ml



#26 Chlordane-4

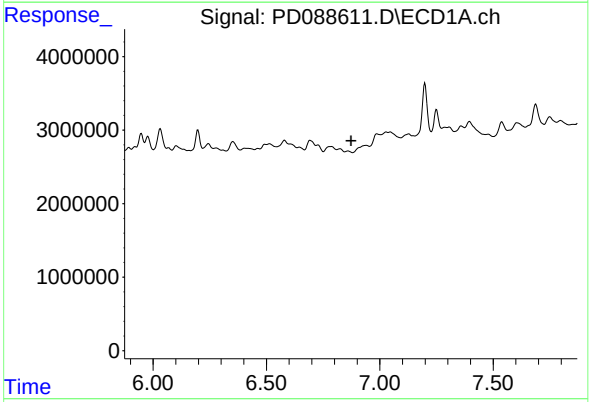
R.T.: 6.032 min
Delta R.T.: -0.003 min
Response: 4460110
Conc: 4.98 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725RE



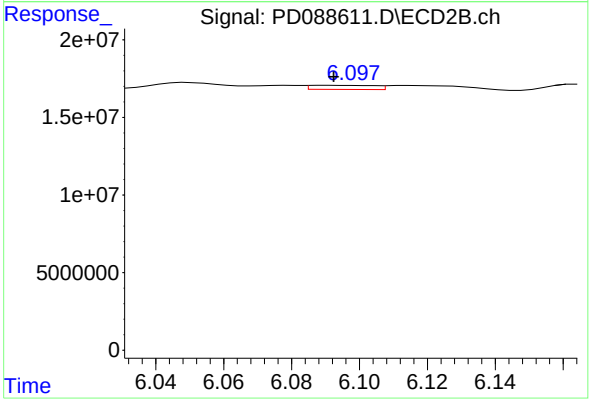
#26 Chlordane-4

R.T.: 5.207 min
Delta R.T.: 0.014 min
Response: 47544556
Conc: 21.49 ng/ml



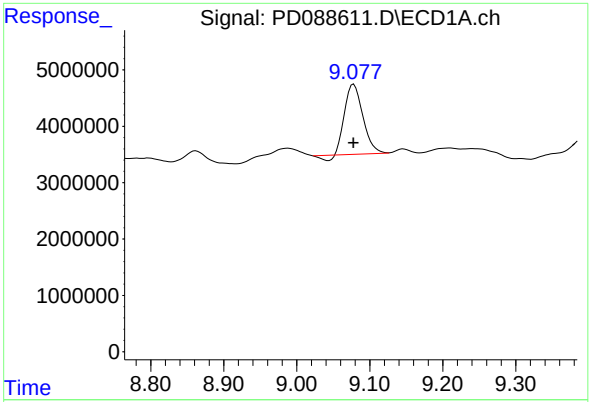
#27 Chlordane-5

R.T.: 0.000 min
Exp R.T. : 6.873 min
Response: 0
Conc: N.D.



#27 Chlordane-5

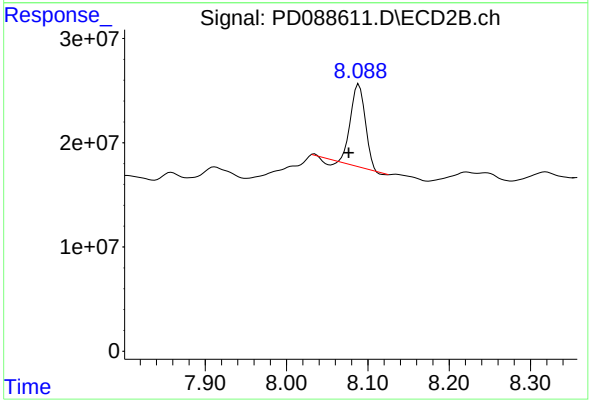
R.T.: 6.091 min
Delta R.T.: -0.001 min
Response: 3499275
Conc: 3.50 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.078 min
Delta R.T.: 0.000 min
Response: 20923566
Conc: 6.11 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-27-050725RE



#28 Decachlorobiphenyl

R.T.: 8.089 min
Delta R.T.: 0.012 min
Response: 96037458
Conc: 5.26 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088612.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 17:31
Operator : AR\AJ
Sample : Q1984-15RE
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725RE

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:44:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	System Monitoring Compounds							
1)	SA Tetrachlo...	3.552	2.883	26801209	200.5E6	12.386	13.254	
28)	SA Decachlor...	9.080	8.077	17602620	82142980	5.143	4.499	
	Target Compounds							
2)	A alpha-BHC	4.018f	3.389	13360818	5352549	2.797	0.224	#
3)	MA gamma-BHC...	4.342	3.737	3762427	11750505	0.817	0.530	#
4)	MA Heptachlor	4.955f	4.074	7196213	19433072	1.609	0.865	#
5)	MB Aldrin	0.000	4.375	0	74033861	N.D.	3.376	#
6)	B beta-BHC	4.535f	0.000	632713	0	0.351	N.D.	#
7)	B delta-BHC	4.781f	4.258	5306519	2127695	1.256	0.095	#
8)	B Heptachlo...	5.684	4.876	1501646	5073020	0.378	0.255	#
9)	A Endosulfan I	6.068	5.276f	423245	40395531	0.112	2.128	#
10)	B gamma-Chl...	5.948	5.125	3029290	97203316	0.759	4.557	#
11)	B alpha-Chl...	6.032	5.194	4498268	115.1E6	1.123	5.581	#
12)	B 4,4'-DDE	6.198	5.378	3521912	144.2E6	0.981	6.900	#
13)	MA Dieldrin	6.352	5.513	1873444	19623560	0.467	0.933	#
14)	MA Endrin	6.579	5.798	19915532	139.7E6	5.831	7.244	
15)	B Endosulfa...	6.789	6.099f	1666258	11706564	0.484	0.639	#
16)	A 4,4'-DDD	6.696	5.940	6727512	-3236891	2.416	N.D.	#
17)	MA 4,4'-DDT	7.053f	6.201	5138411	55731184	1.646	3.073	#
18)	B Endrin al...	6.931	6.248	5174803	83549139	2.010	5.998	#
19)	B Endosulfa...	7.129f	0.000	211566	0	0.066	N.D.	#
20)	A Methoxychlor	7.489	0.000	4280522	0	2.562	N.D.	#
21)	B Endrin ke...	0.000	6.978f	0	505730	N.D.	0.026	#
22)	Mirex	8.143f	7.181	22512016	11544622	8.664	0.759	#
23)	Chlordane-1	4.718	3.904	-1366483	28944406	N.D.	35.027	
24)	Chlordane-2	5.240	4.496	2669031	162.4E6	14.545	192.380	#
25)	Chlordane-3	5.948	5.125	3029290	97203316	4.094	36.864	#
26)	Chlordane-4	6.032	5.194	4498268	115.1E6	5.019	52.025	#
27)	Chlordane-5	0.000	6.099	0	11706564	N.D.	11.697	#

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

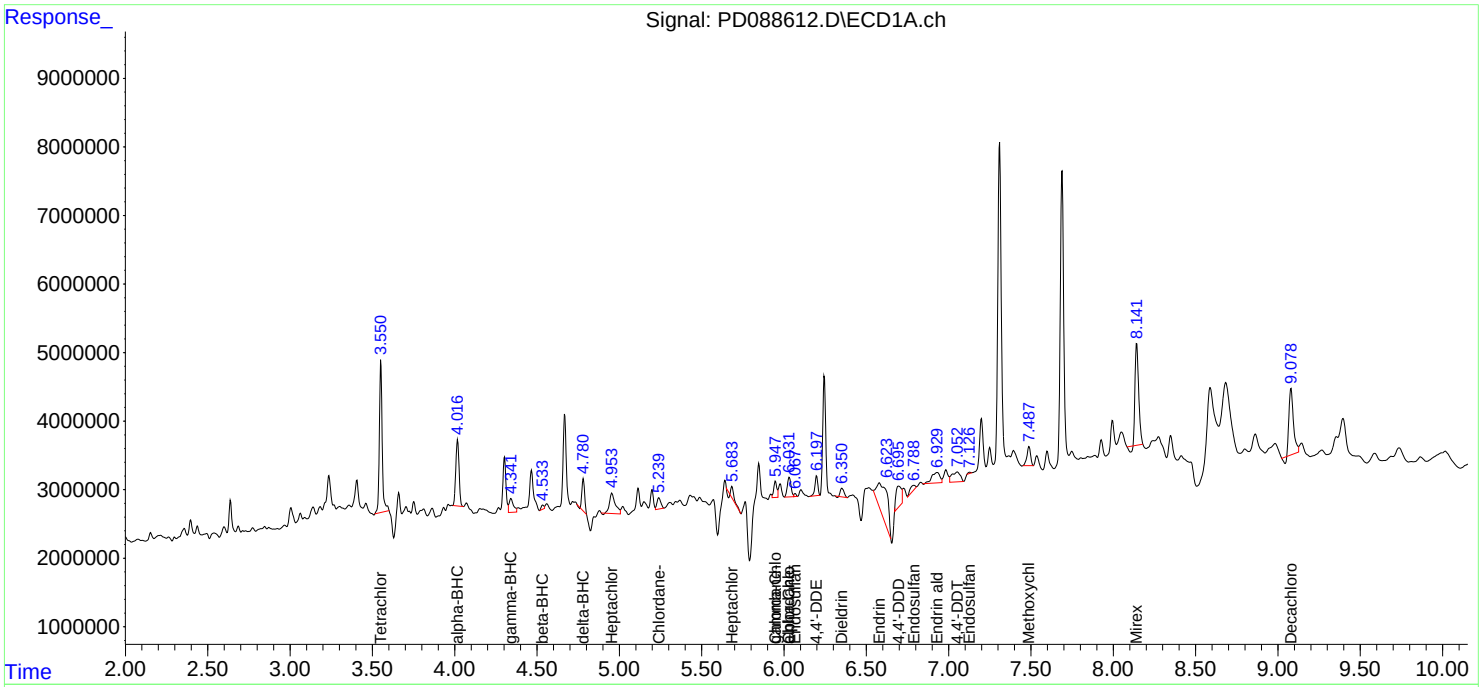
Quantitation Report (Not Reviewed)

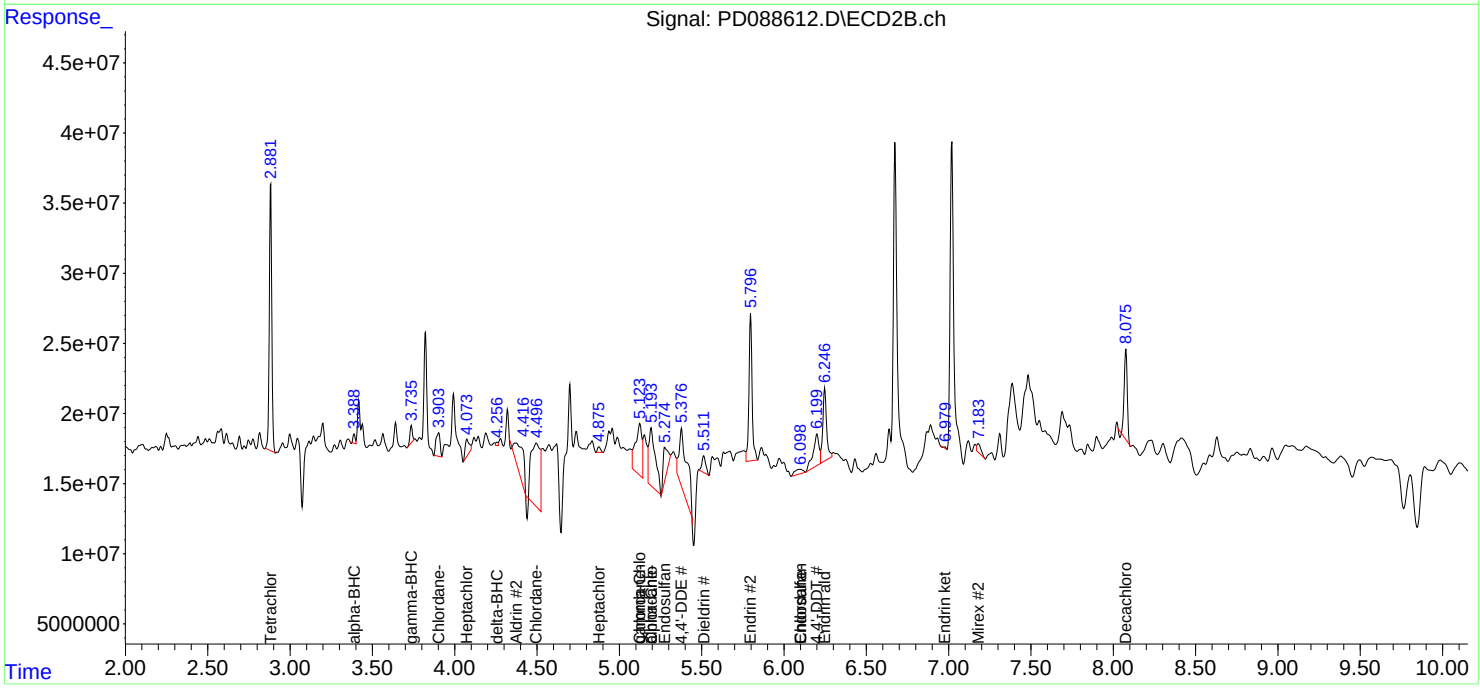
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088612.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 17:31
Operator : AR\AJ
Sample : Q1984-15RE
Misc :
ALS Vial : 27 Sample Multiplier: 1

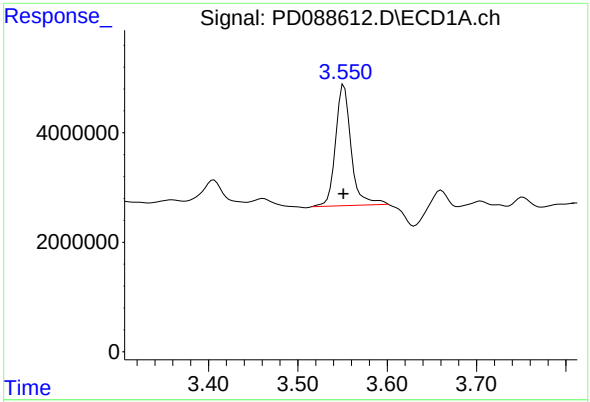
Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725RE

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:44:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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



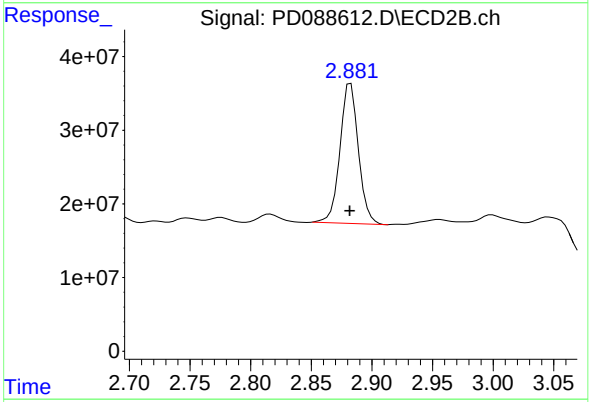




#1 Tetrachloro-m-xylene

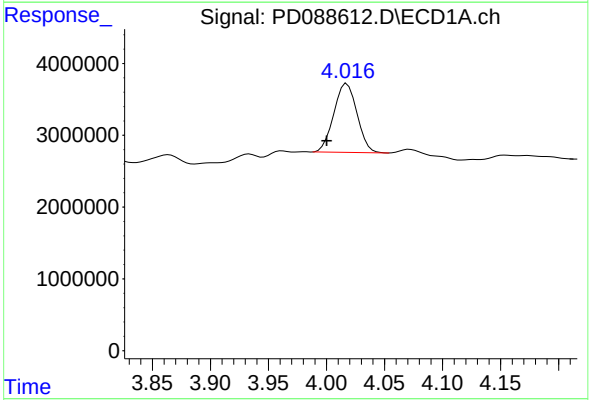
R.T.: 3.552 min
Delta R.T.: 0.000 min
Response: 26801209
Conc: 12.39 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725RE



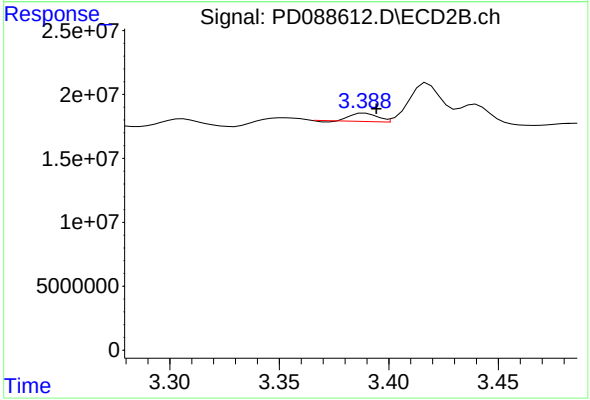
#1 Tetrachloro-m-xylene

R.T.: 2.883 min
Delta R.T.: 0.000 min
Response: 200487410
Conc: 13.25 ng/ml



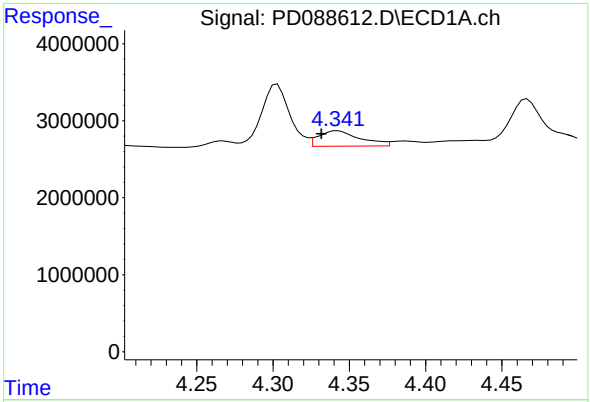
#2 alpha-BHC

R.T.: 4.018 min
Delta R.T.: 0.017 min
Response: 13360818
Conc: 2.80 ng/ml



#2 alpha-BHC

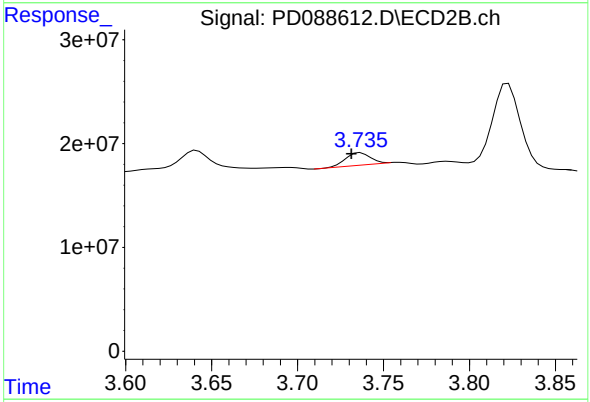
R.T.: 3.389 min
Delta R.T.: -0.005 min
Response: 5352549
Conc: 0.22 ng/ml



#3 gamma-BHC (Lindane)

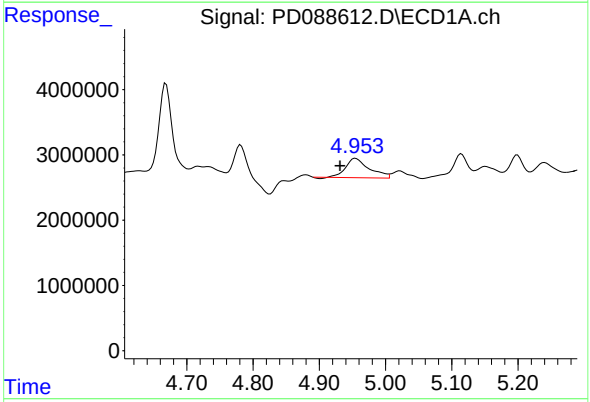
R.T.: 4.342 min
Delta R.T.: 0.011 min
Response: 3762427
Conc: 0.82 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725RE



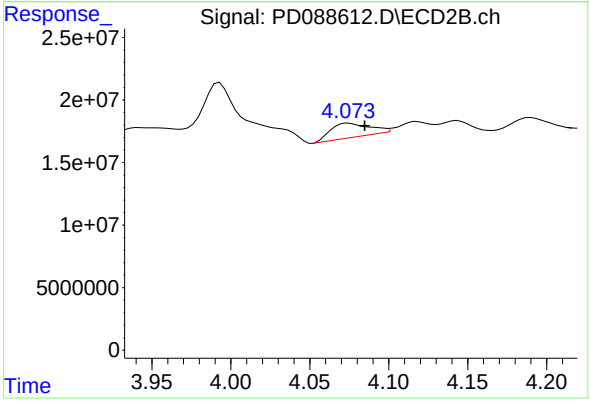
#3 gamma-BHC (Lindane)

R.T.: 3.737 min
Delta R.T.: 0.005 min
Response: 11750505
Conc: 0.53 ng/ml



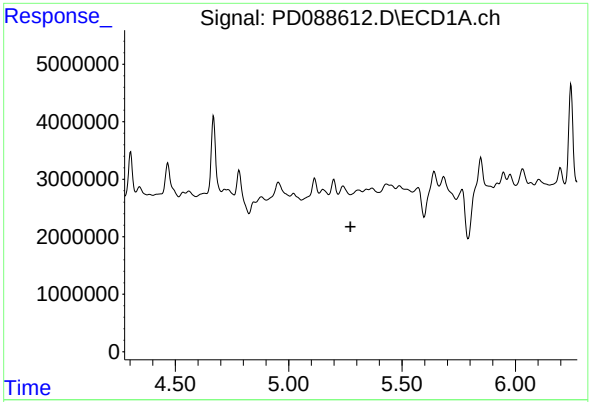
#4 Heptachlor

R.T.: 4.955 min
Delta R.T.: 0.023 min
Response: 7196213
Conc: 1.61 ng/ml



#4 Heptachlor

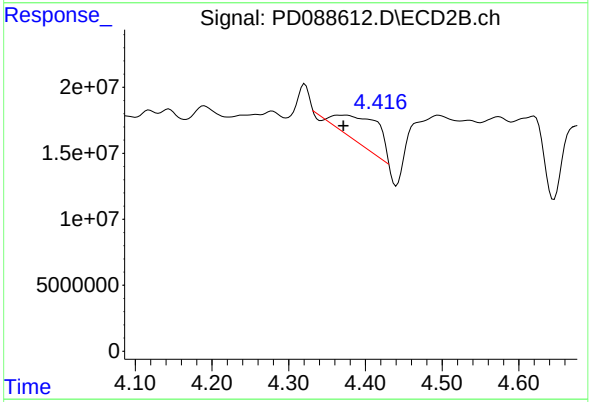
R.T.: 4.074 min
Delta R.T.: -0.011 min
Response: 19433072
Conc: 0.87 ng/ml



#5 Aldrin

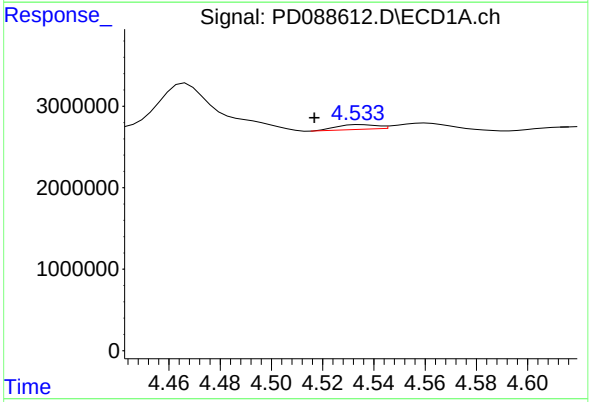
R.T.: 0.000 min
Exp R.T. : 5.273 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725RE



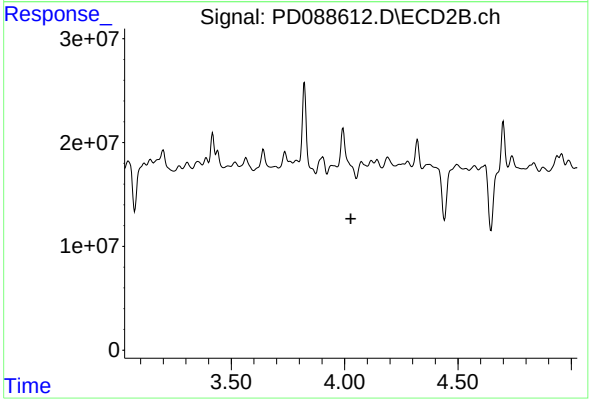
#5 Aldrin

R.T.: 4.375 min
Delta R.T.: 0.003 min
Response: 74033861
Conc: 3.38 ng/ml



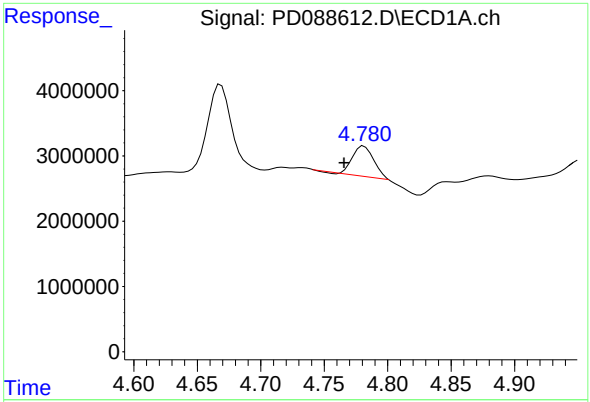
#6 beta-BHC

R.T.: 4.535 min
Delta R.T.: 0.018 min
Response: 632713
Conc: 0.35 ng/ml



#6 beta-BHC

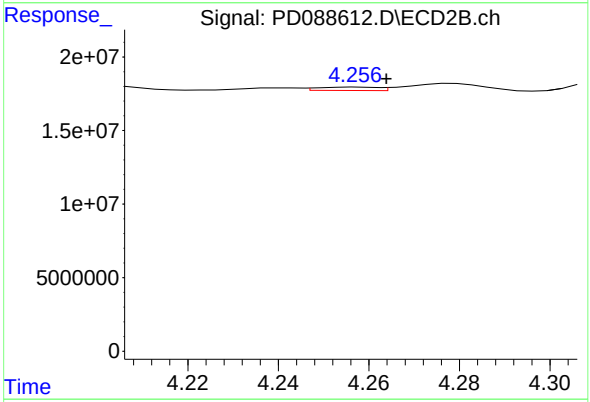
R.T.: 0.000 min
Exp R.T. : 4.027 min
Response: 0
Conc: N.D.



#7 delta-BHC

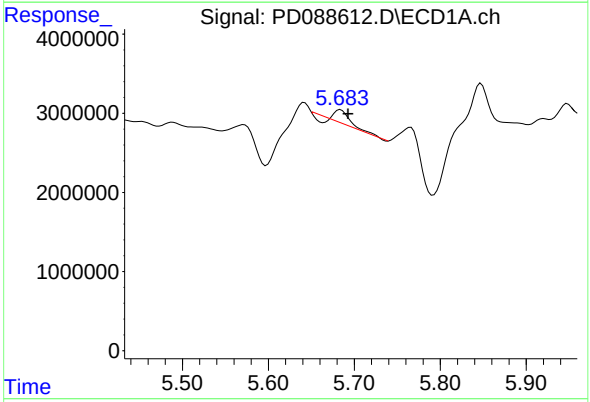
R.T.: 4.781 min
Delta R.T.: 0.016 min
Response: 5306519
Conc: 1.26 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725RE



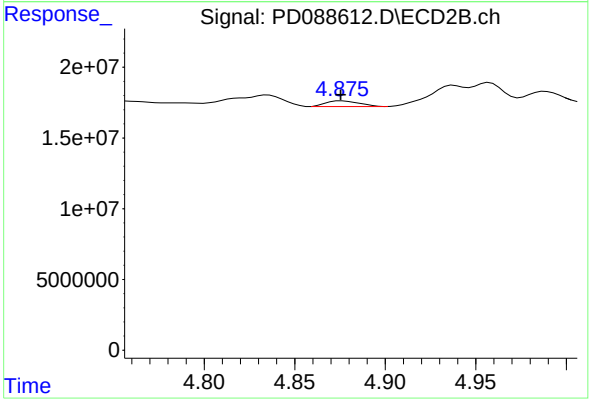
#7 delta-BHC

R.T.: 4.258 min
Delta R.T.: -0.006 min
Response: 2127695
Conc: 0.10 ng/ml



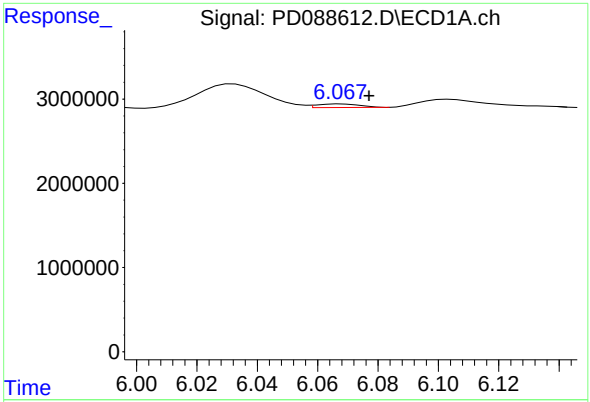
#8 Heptachlor epoxide

R.T.: 5.684 min
Delta R.T.: -0.009 min
Response: 1501646
Conc: 0.38 ng/ml



#8 Heptachlor epoxide

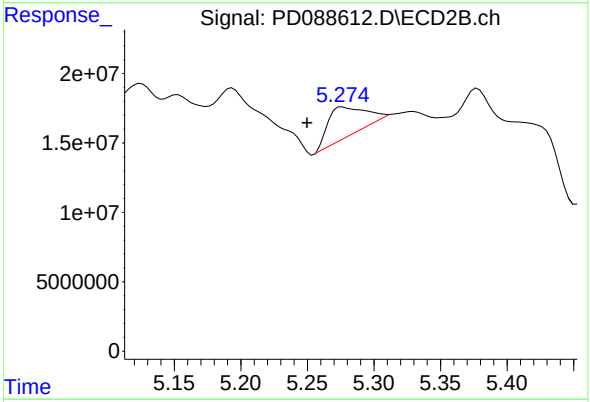
R.T.: 4.876 min
Delta R.T.: 0.000 min
Response: 5073020
Conc: 0.26 ng/ml



#9 Endosulfan I

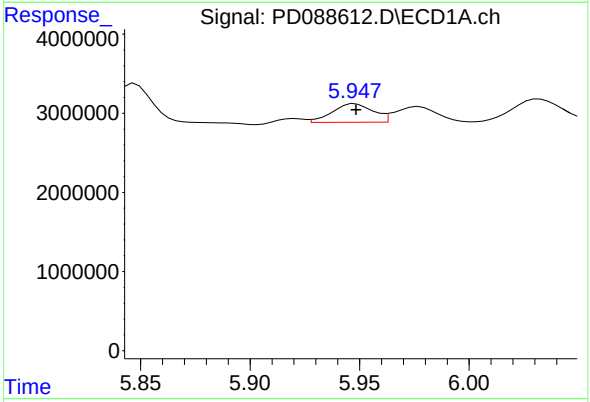
R.T.: 6.068 min
Delta R.T.: -0.009 min
Response: 423245
Conc: 0.11 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725RE



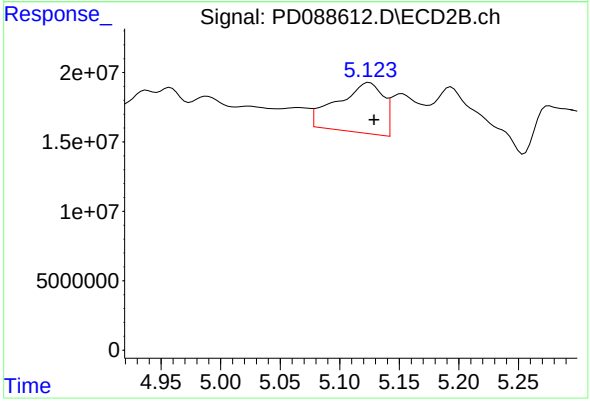
#9 Endosulfan I

R.T.: 5.276 min
Delta R.T.: 0.026 min
Response: 40395531
Conc: 2.13 ng/ml



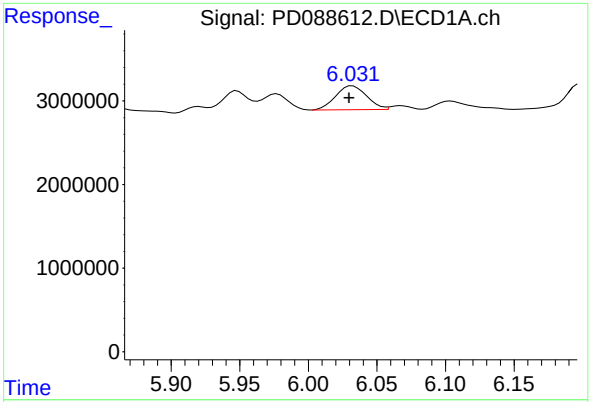
#10 gamma-Chlordane

R.T.: 5.948 min
Delta R.T.: 0.000 min
Response: 3029290
Conc: 0.76 ng/ml



#10 gamma-Chlordane

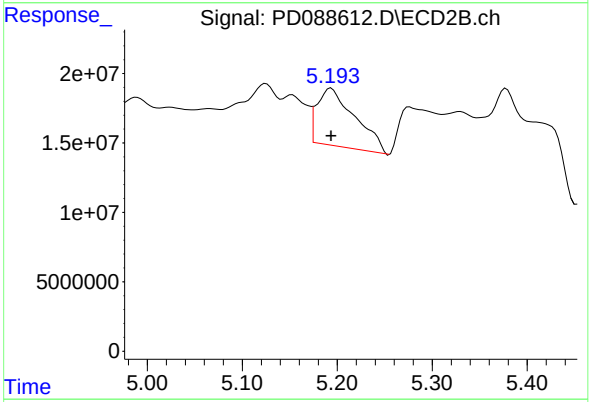
R.T.: 5.125 min
Delta R.T.: -0.004 min
Response: 97203316
Conc: 4.56 ng/ml



#11 alpha-Chlordane

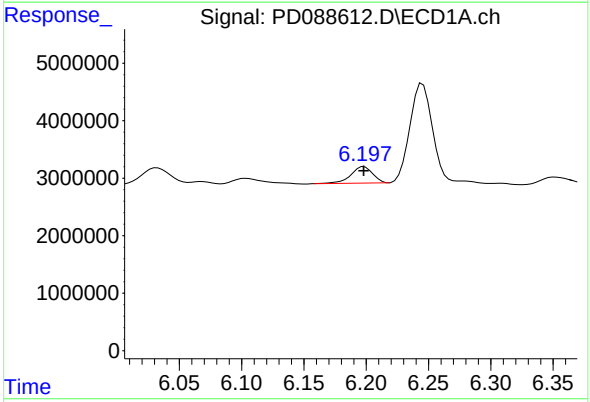
R.T.: 6.032 min
Delta R.T.: 0.002 min
Response: 4498268
Conc: 1.12 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725RE



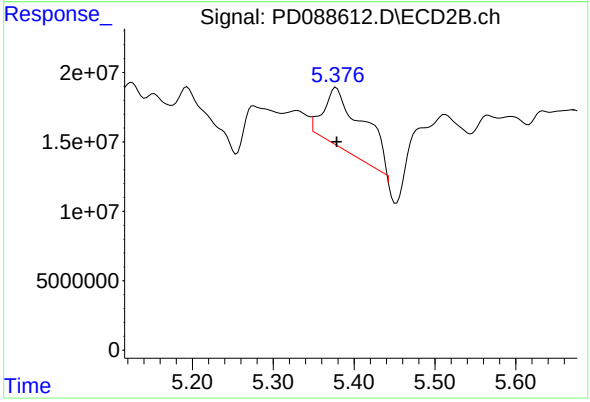
#11 alpha-Chlordane

R.T.: 5.194 min
Delta R.T.: 0.000 min
Response: 115104674
Conc: 5.58 ng/ml



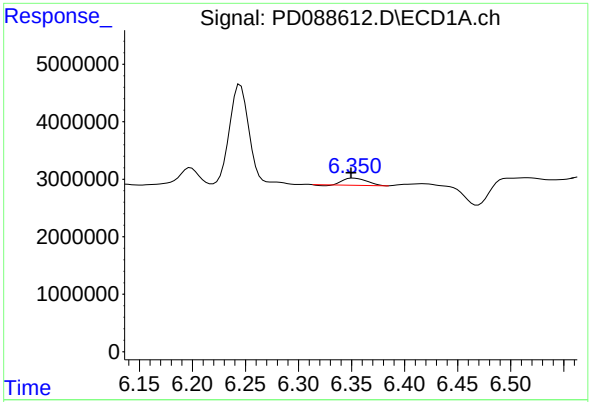
#12 4,4'-DDE

R.T.: 6.198 min
Delta R.T.: 0.000 min
Response: 3521912
Conc: 0.98 ng/ml



#12 4,4'-DDE

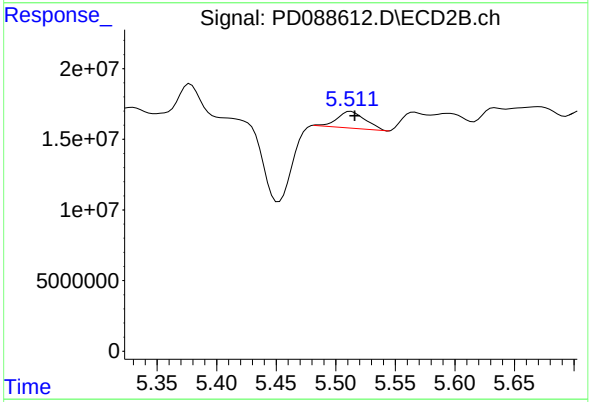
R.T.: 5.378 min
Delta R.T.: 0.000 min
Response: 144230991
Conc: 6.90 ng/ml



#13 Dieldrin

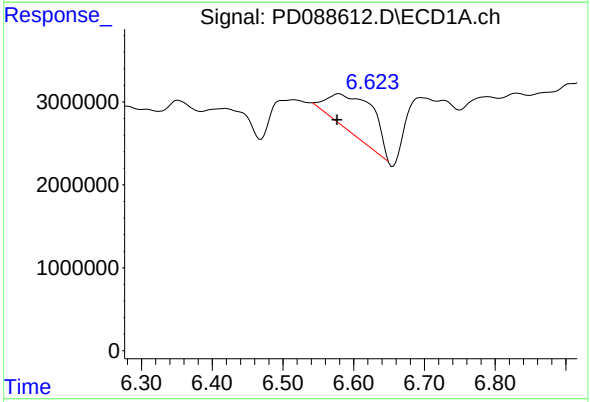
R.T.: 6.352 min
Delta R.T.: 0.002 min
Response: 1873444
Conc: 0.47 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725RE



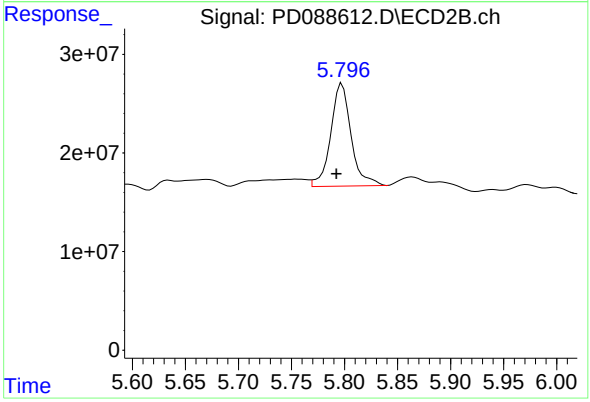
#13 Dieldrin

R.T.: 5.513 min
Delta R.T.: -0.003 min
Response: 19623560
Conc: 0.93 ng/ml



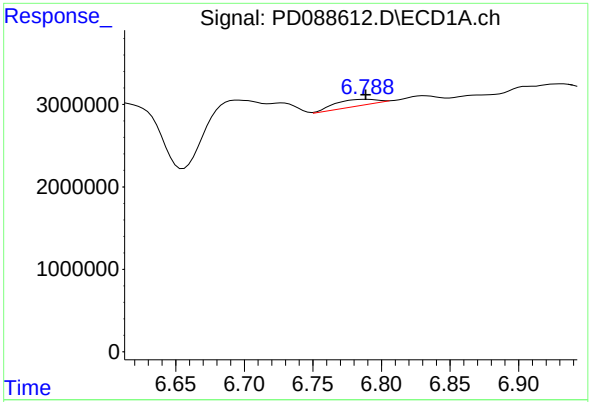
#14 Endrin

R.T.: 6.579 min
Delta R.T.: 0.003 min
Response: 19915532
Conc: 5.83 ng/ml



#14 Endrin

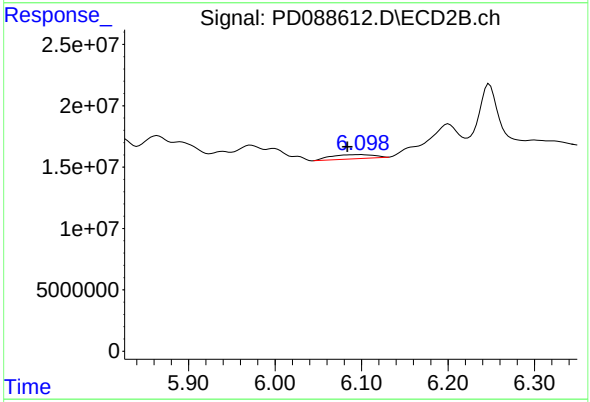
R.T.: 5.798 min
Delta R.T.: 0.006 min
Response: 139686535
Conc: 7.24 ng/ml



#15 Endosulfan II

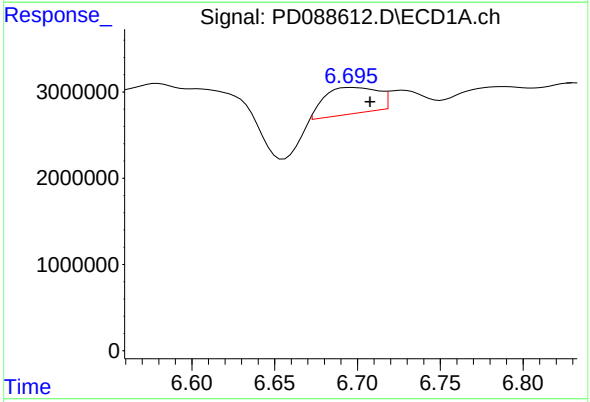
R.T.: 6.789 min
Delta R.T.: 0.000 min
Response: 1666258
Conc: 0.48 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725RE



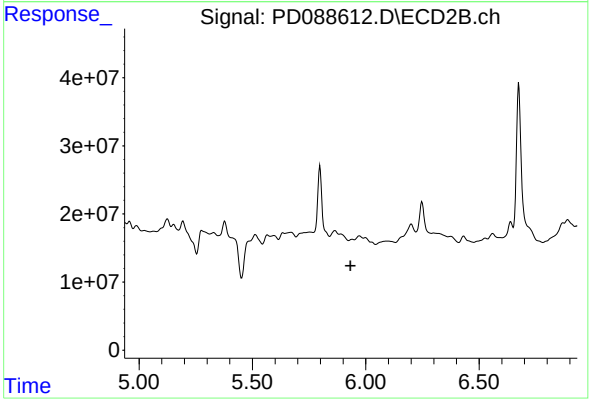
#15 Endosulfan II

R.T.: 6.099 min
Delta R.T.: 0.015 min
Response: 11706564
Conc: 0.64 ng/ml



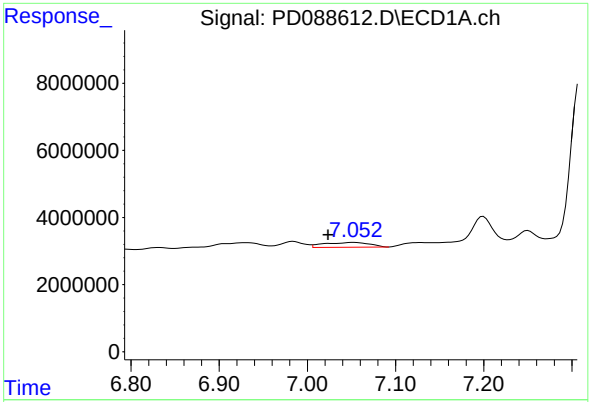
#16 4,4'-DDD

R.T.: 6.696 min
Delta R.T.: -0.012 min
Response: 6727512
Conc: 2.42 ng/ml



#16 4,4'-DDD

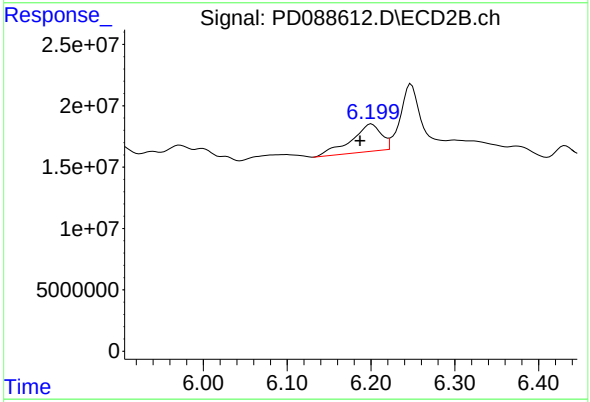
R.T.: 5.940 min
Delta R.T.: 0.007 min
Response: -3236891
Conc: N.D.



#17 4,4'-DDT

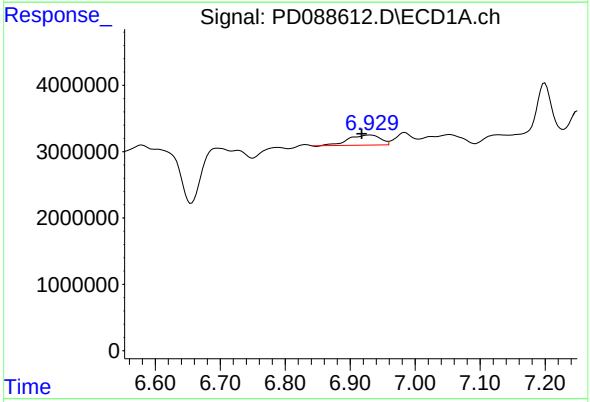
R.T.: 7.053 min
Delta R.T.: 0.030 min
Response: 5138411
Conc: 1.65 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725RE



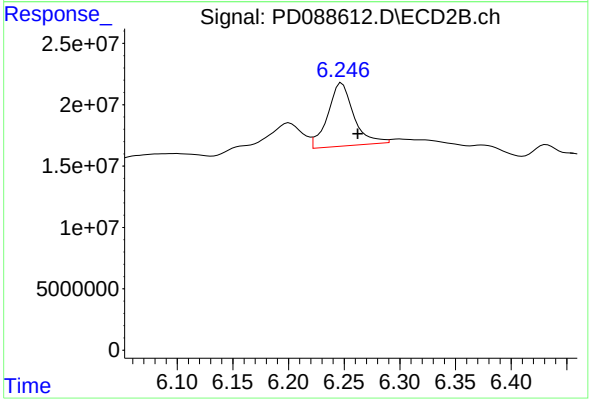
#17 4,4'-DDT

R.T.: 6.201 min
Delta R.T.: 0.014 min
Response: 55731184
Conc: 3.07 ng/ml



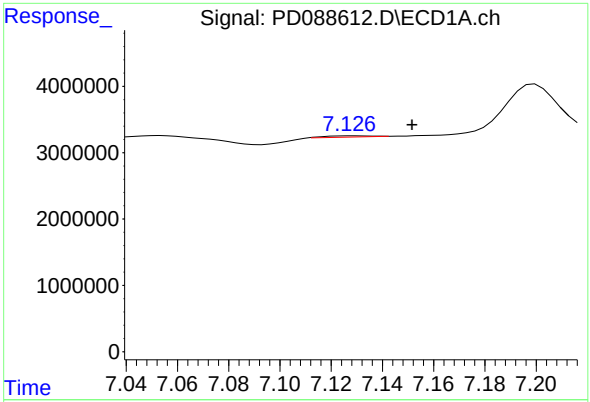
#18 Endrin aldehyde

R.T.: 6.931 min
Delta R.T.: 0.013 min
Response: 5174803
Conc: 2.01 ng/ml



#18 Endrin aldehyde

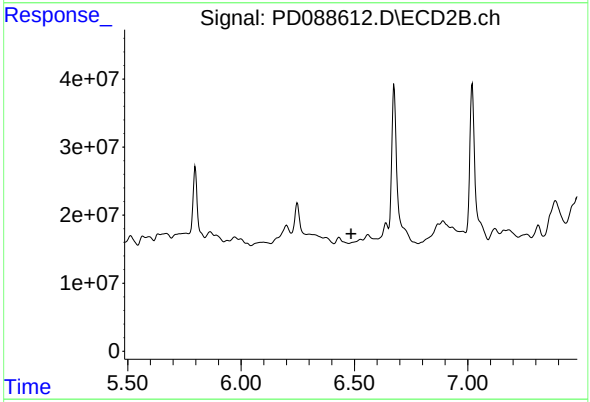
R.T.: 6.248 min
Delta R.T.: -0.014 min
Response: 83549139
Conc: 6.00 ng/ml



#19 Endosulfan Sulfate

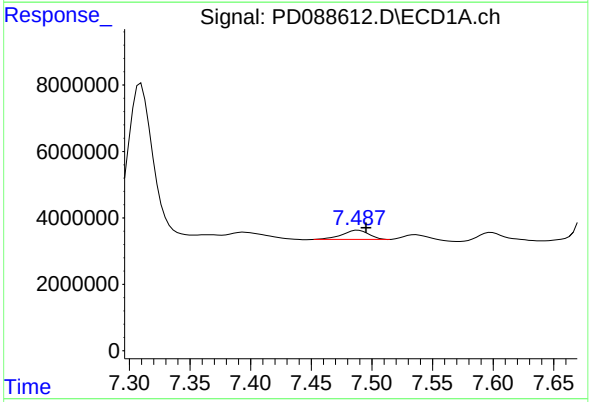
R.T.: 7.129 min
Delta R.T.: -0.023 min
Response: 211566
Conc: 0.07 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725RE



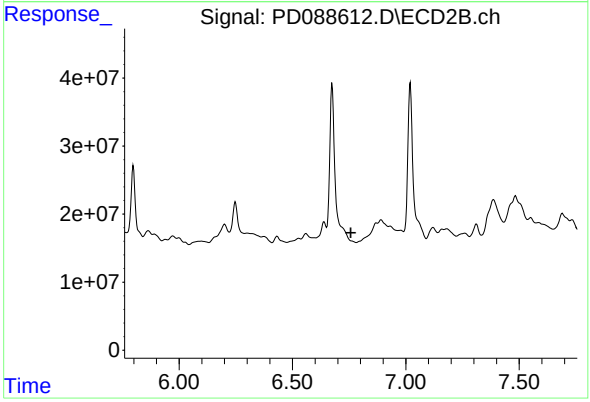
#19 Endosulfan Sulfate

R.T.: 0.000 min
Exp R.T. : 6.486 min
Response: 0
Conc: N.D.



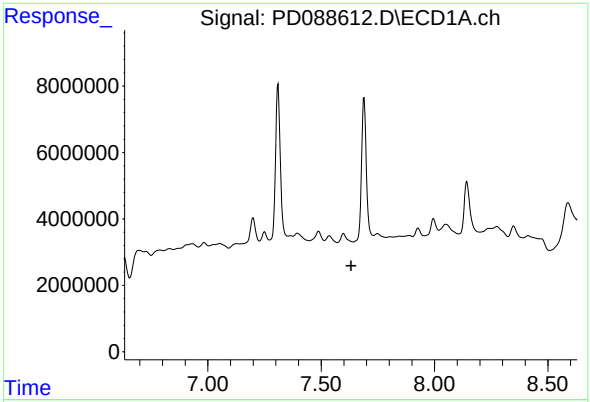
#20 Methoxychlor

R.T.: 7.489 min
Delta R.T.: -0.007 min
Response: 4280522
Conc: 2.56 ng/ml



#20 Methoxychlor

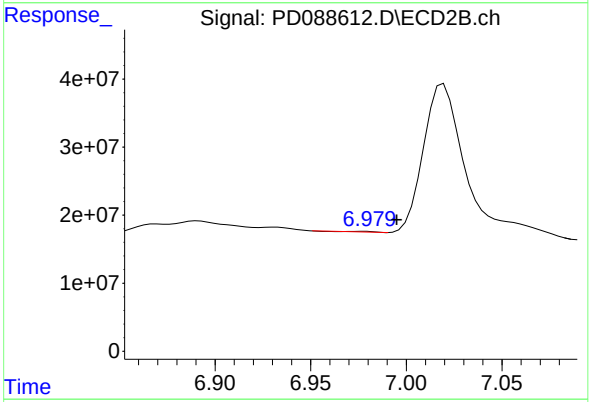
R.T.: 0.000 min
Exp R.T. : 6.758 min
Response: 0
Conc: N.D.



#21 Endrin ketone

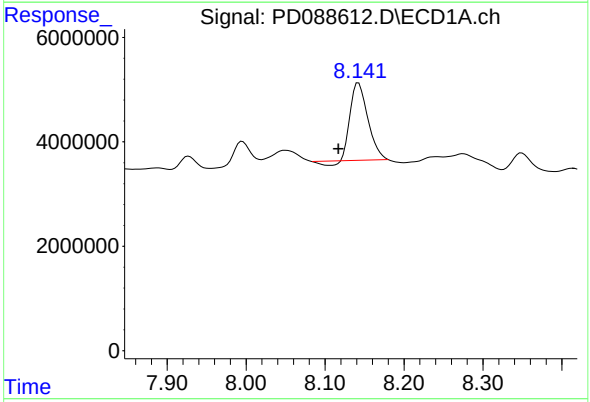
R.T.: 0.000 min
Exp R.T. : 7.633 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725RE



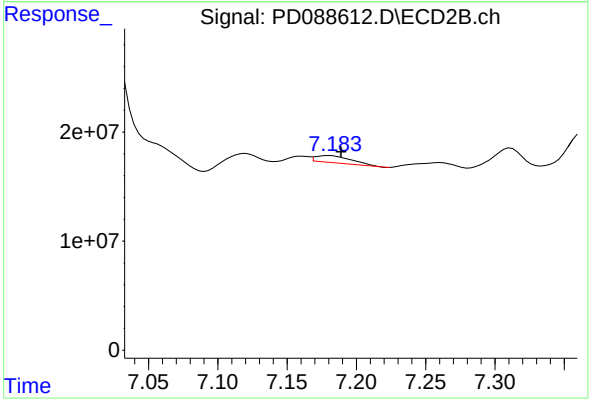
#21 Endrin ketone

R.T.: 6.978 min
Delta R.T.: -0.017 min
Response: 505730
Conc: 0.03 ng/ml



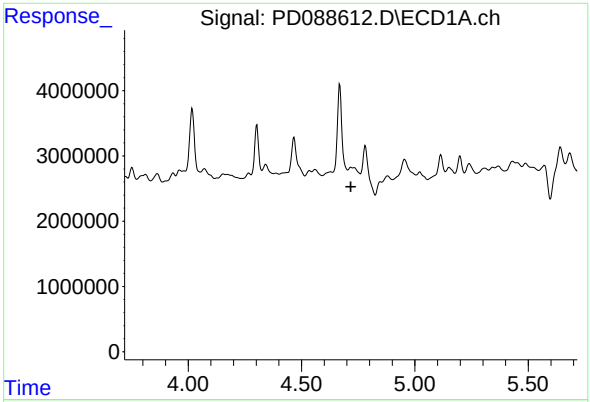
#22 Mirex

R.T.: 8.143 min
Delta R.T.: 0.026 min
Response: 22512016
Conc: 8.66 ng/ml



#22 Mirex

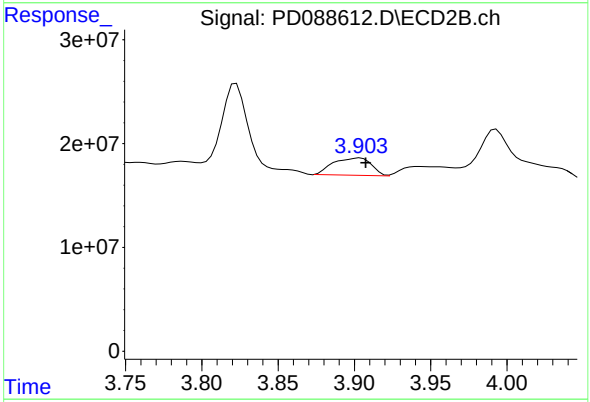
R.T.: 7.181 min
Delta R.T.: -0.008 min
Response: 11544622
Conc: 0.76 ng/ml



#23 Chlordane-1

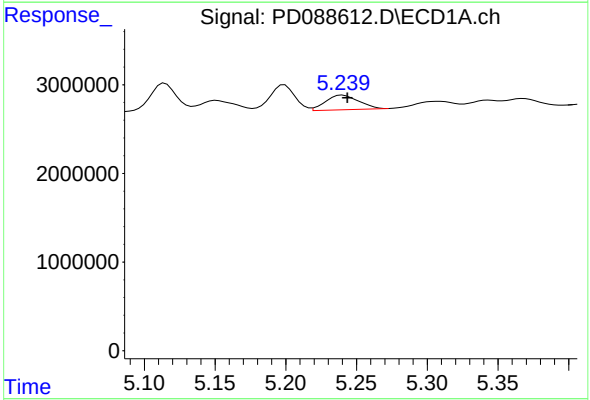
R.T.: 4.718 min
Delta R.T.: 0.000 min
Response: -1366483
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725RE



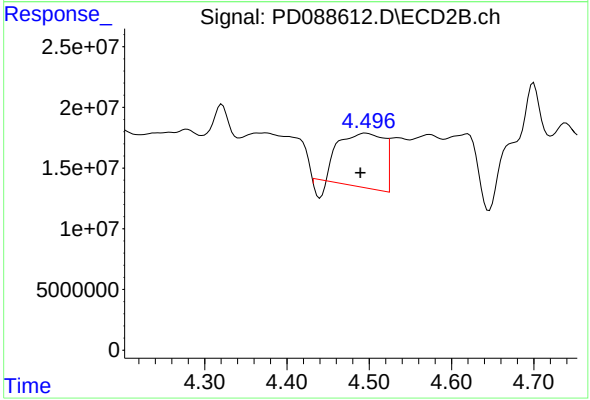
#23 Chlordane-1

R.T.: 3.904 min
Delta R.T.: -0.004 min
Response: 28944406
Conc: 35.03 ng/ml



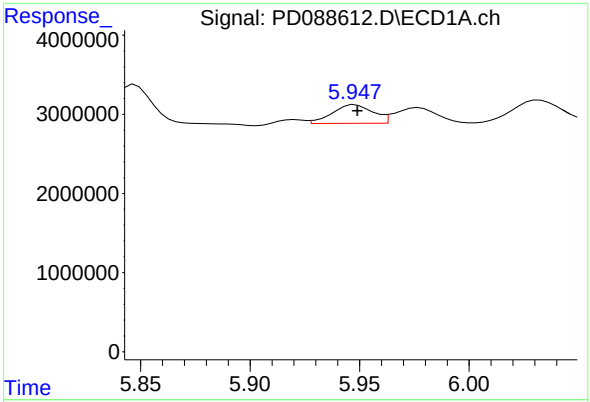
#24 Chlordane-2

R.T.: 5.240 min
Delta R.T.: -0.003 min
Response: 2669031
Conc: 14.54 ng/ml



#24 Chlordane-2

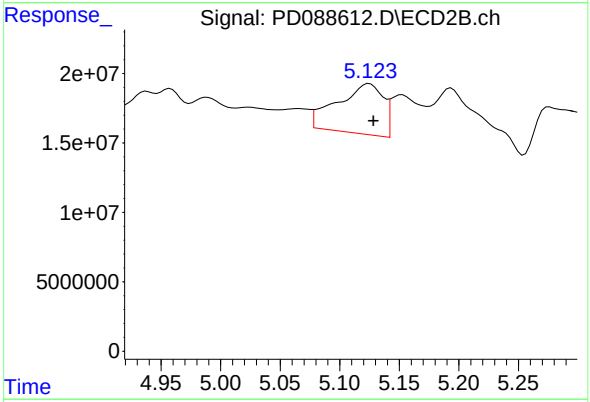
R.T.: 4.496 min
Delta R.T.: 0.006 min
Response: 162369678
Conc: 192.38 ng/ml



#25 Chlordane-3

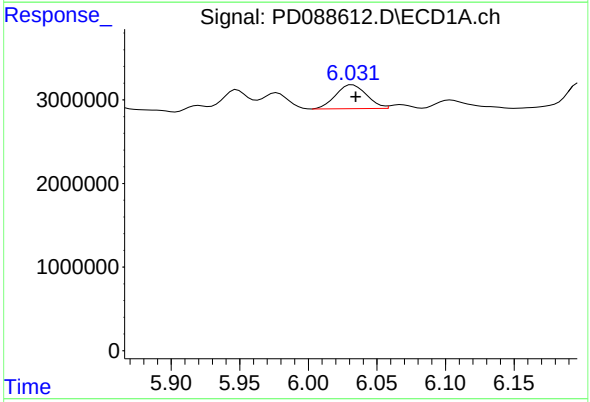
R.T.: 5.948 min
Delta R.T.: 0.000 min
Response: 3029290
Conc: 4.09 ng/ml

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725RE



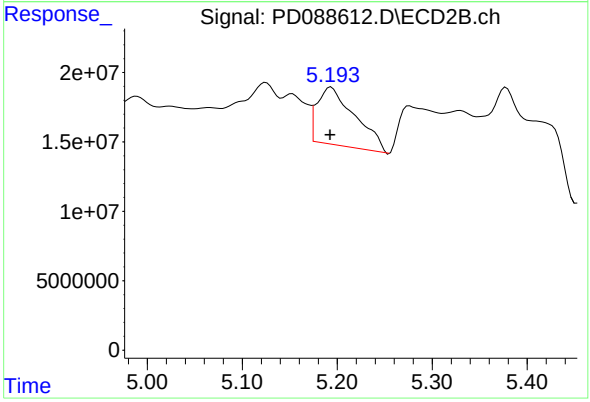
#25 Chlordane-3

R.T.: 5.125 min
Delta R.T.: -0.003 min
Response: 97203316
Conc: 36.86 ng/ml



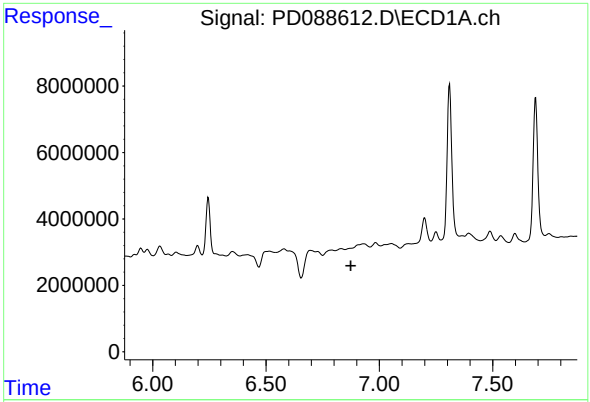
#26 Chlordane-4

R.T.: 6.032 min
Delta R.T.: -0.002 min
Response: 4498268
Conc: 5.02 ng/ml



#26 Chlordane-4

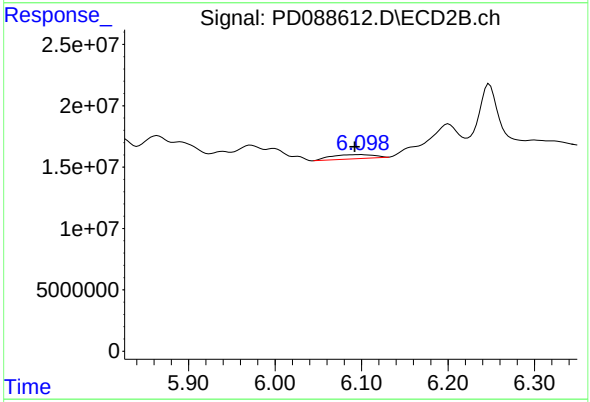
R.T.: 5.194 min
Delta R.T.: 0.001 min
Response: 115104674
Conc: 52.02 ng/ml



#27 Chlordane-5

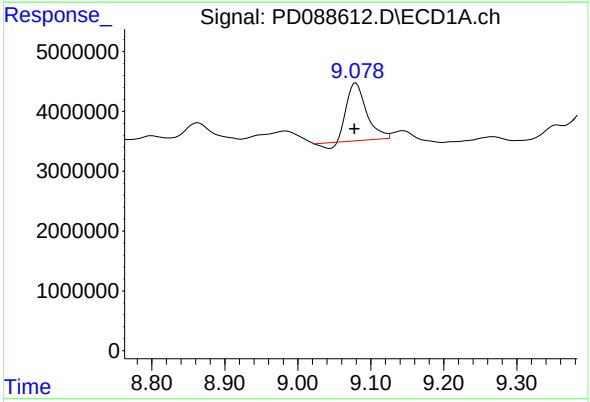
R.T.: 0.000 min
Exp R.T. : 6.873 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
OU4-TS-28-050725RE



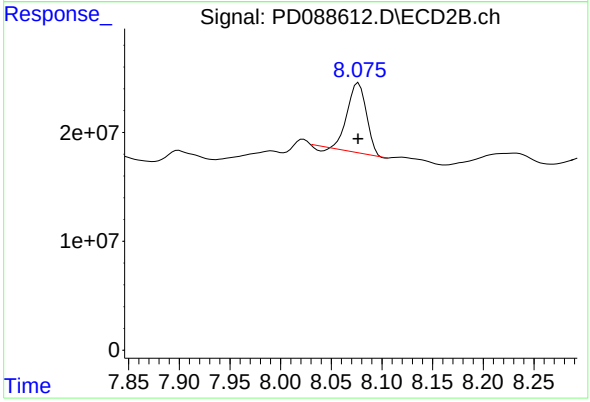
#27 Chlordane-5

R.T.: 6.099 min
Delta R.T.: 0.007 min
Response: 11706564
Conc: 11.70 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.080 min
Delta R.T.: 0.002 min
Response: 17602620
Conc: 5.14 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.077 min
Delta R.T.: 0.000 min
Response: 82142980
Conc: 4.50 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088613.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 17:45
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:39:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	System Monitoring Compounds							
1)	SA Tetrachlo...	3.551	2.882	37470058	274.4E6	17.317	18.139	
28)	SA Decachlor...	9.078	8.076	49372747	284.4E6	14.427	15.578	
	Target Compounds							
3)	MA gamma-BHC...	4.344	3.749f	93115	405890	0.020	0.018	
4)	MA Heptachlor	4.919	4.099	771452	559008	0.173	0.025	#
5)	MB Aldrin	0.000	4.382	0	11022180	N.D.	0.503	#
6)	B beta-BHC	0.000	4.040	0	1727988	N.D.	0.177	#
7)	B delta-BHC	4.779	4.257	3503515	762284	0.829	0.034	#
8)	B Heptachlo...	5.685	4.882	2027639	379250	0.511	0.019	#
9)	A Endosulfan I	6.067	0.000	320523	0	0.085	N.D.	#
10)	B gamma-Chl...	0.000	5.122	0	19330985	N.D.	0.906	#
11)	B alpha-Chl...	6.001f	0.000	619440	0	0.155	N.D.	#
13)	MA Dieldrin	0.000	5.503	0	1422037	N.D.	0.068	#
14)	MA Endrin	6.605f	5.796	1682832	12596198	0.493	0.653	#
16)	A 4,4'-DDD	6.693	5.917f	651538	2703072	0.234	0.155	#
17)	MA 4,4'-DDT	7.038	0.000	533961	0	0.171	N.D.	#
18)	B Endrin al...	6.928	6.245f	1428039	27684069	0.555	1.988	#
19)	B Endosulfa...	7.143	0.000	304614	0	0.095	N.D.	#
22)	Mirex	0.000	7.207f	0	24206777	N.D.	1.592	#
23)	Chlordane-1	0.000	3.895	0	1833516	N.D.	2.219	#
24)	Chlordane-2	0.000	4.494	0	10098488	N.D.	11.965	#
25)	Chlordane-3	0.000	5.122	0	19330985	N.D.	7.331	#

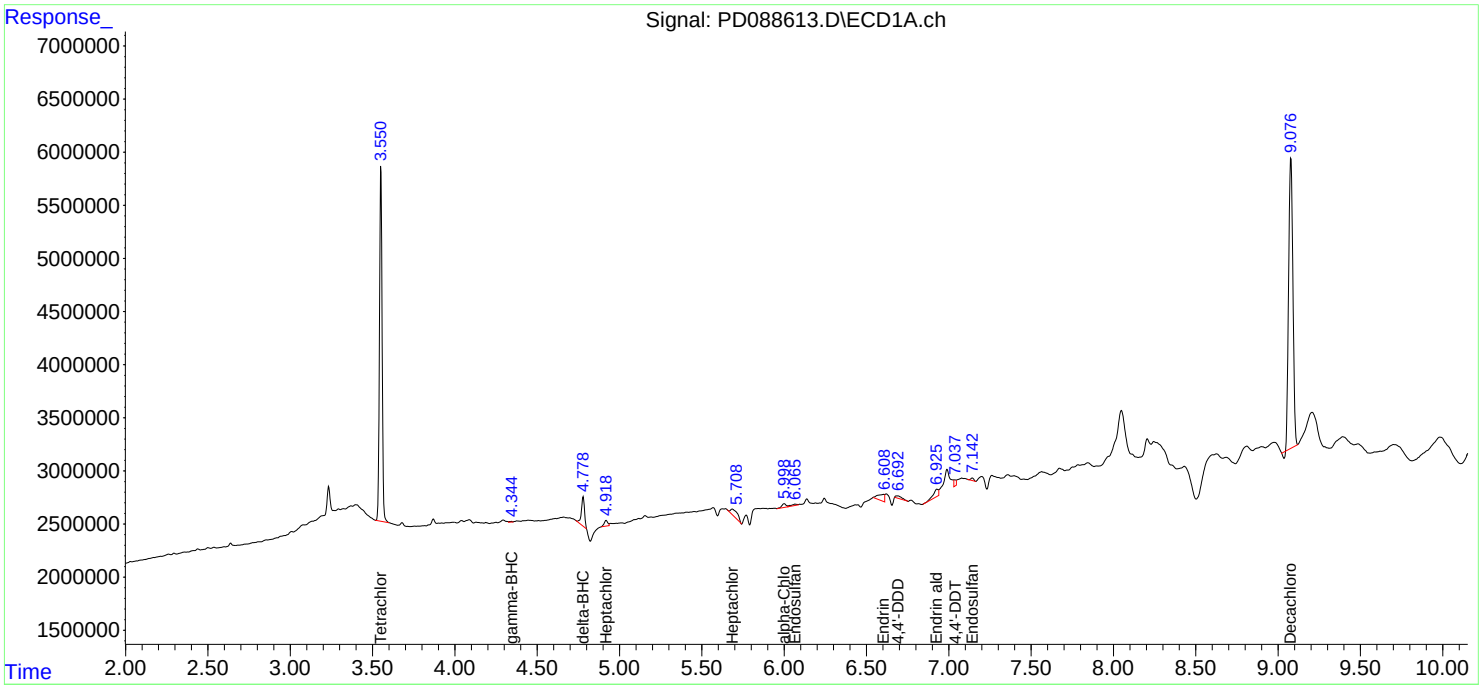
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

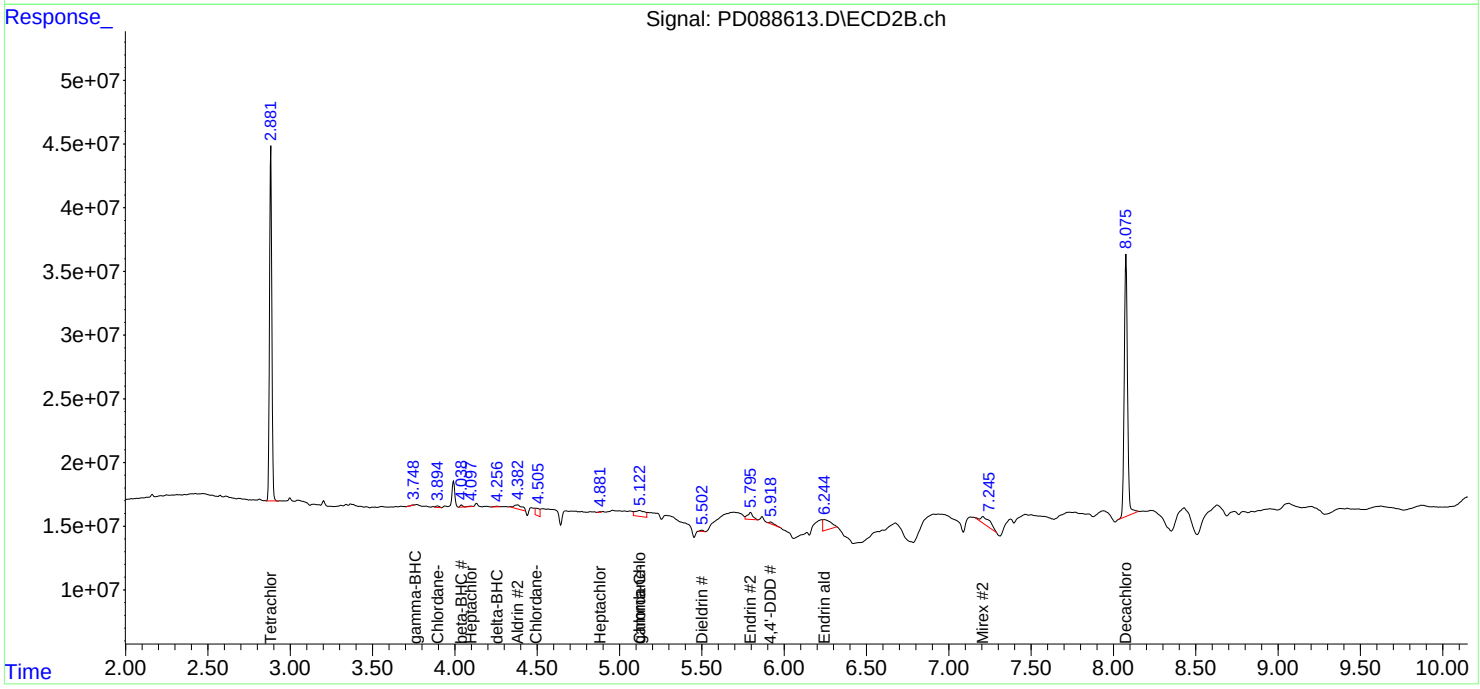
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088613.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 17:45
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

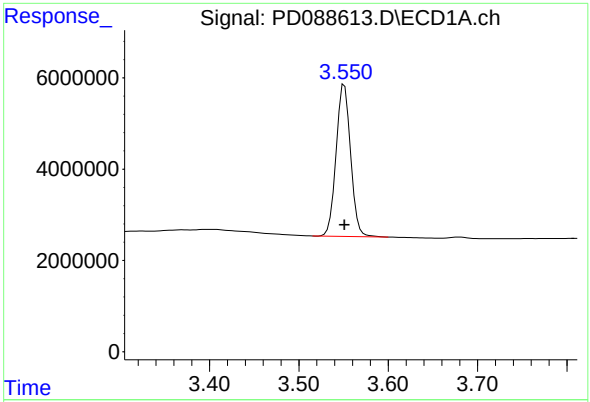
Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:39:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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



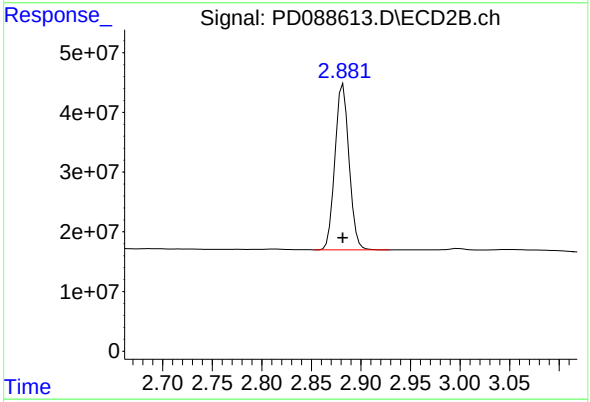




#1 Tetrachloro-m-xylene

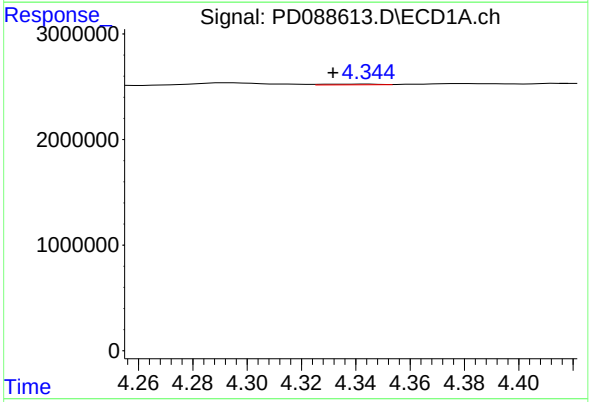
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 37470058
Conc: 17.32 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



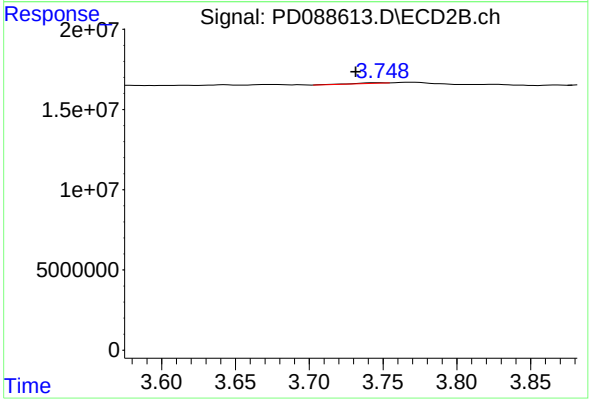
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 274393079
Conc: 18.14 ng/ml



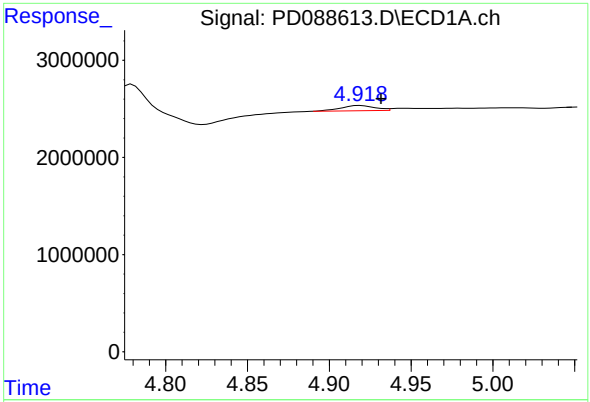
#3 gamma-BHC (Lindane)

R.T.: 4.344 min
Delta R.T.: 0.013 min
Response: 93115
Conc: 0.02 ng/ml



#3 gamma-BHC (Lindane)

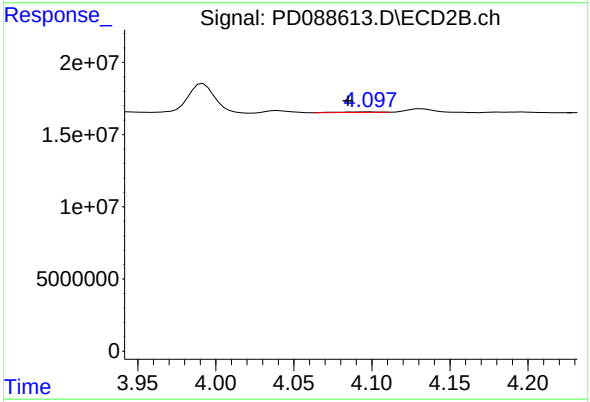
R.T.: 3.749 min
Delta R.T.: 0.017 min
Response: 405890
Conc: 0.02 ng/ml



#4 Heptachlor

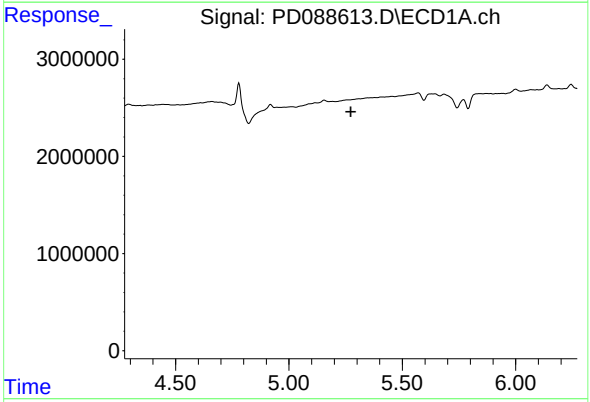
R.T.: 4.919 min
Delta R.T.: -0.013 min
Response: 771452
Conc: 0.17 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



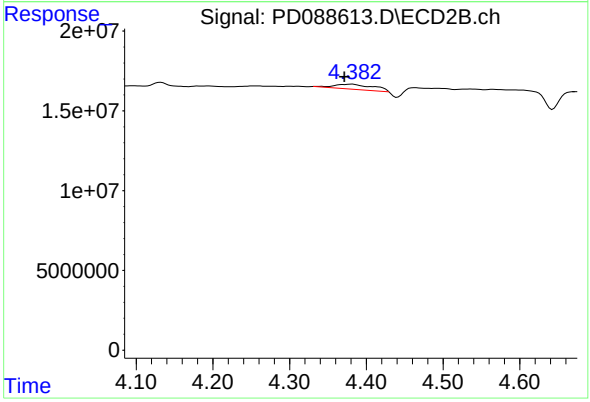
#4 Heptachlor

R.T.: 4.099 min
Delta R.T.: 0.014 min
Response: 559008
Conc: 0.02 ng/ml



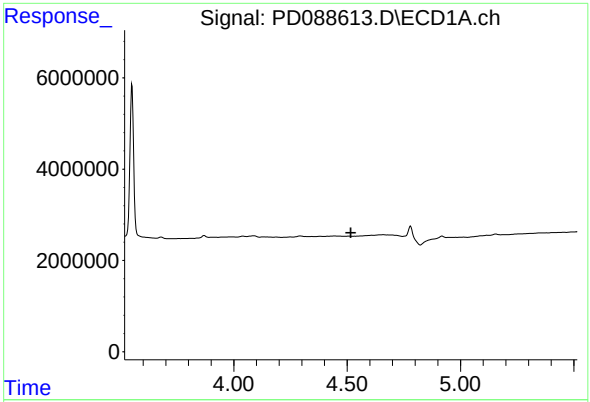
#5 Aldrin

R.T.: 0.000 min
Exp R.T. : 5.273 min
Response: 0
Conc: N.D.



#5 Aldrin

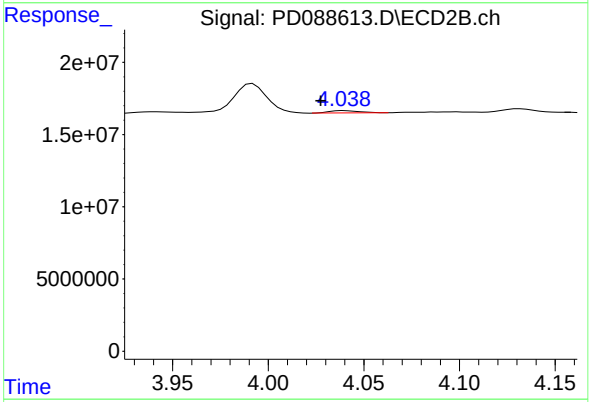
R.T.: 4.382 min
Delta R.T.: 0.010 min
Response: 11022180
Conc: 0.50 ng/ml



#6 beta-BHC

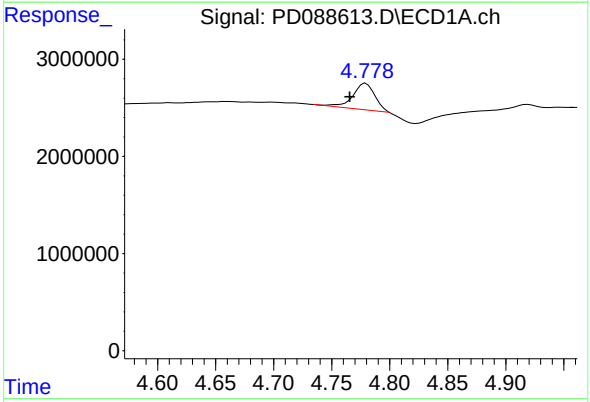
R.T.: 0.000 min
Exp R.T. : 4.517 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
I.BLK



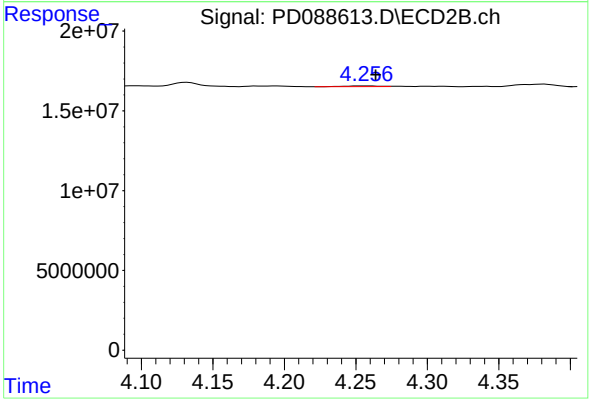
#6 beta-BHC

R.T.: 4.040 min
Delta R.T.: 0.012 min
Response: 1727988
Conc: 0.18 ng/ml



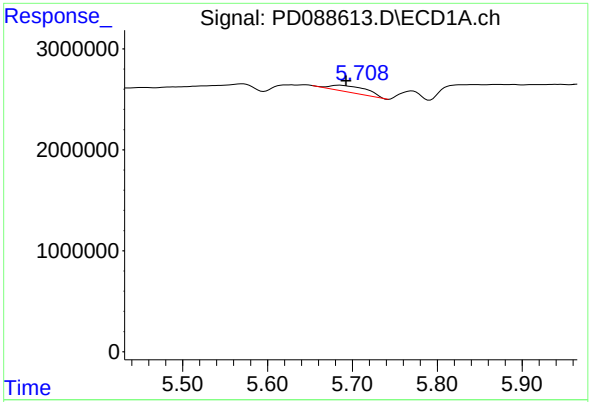
#7 delta-BHC

R.T.: 4.779 min
Delta R.T.: 0.014 min
Response: 3503515
Conc: 0.83 ng/ml



#7 delta-BHC

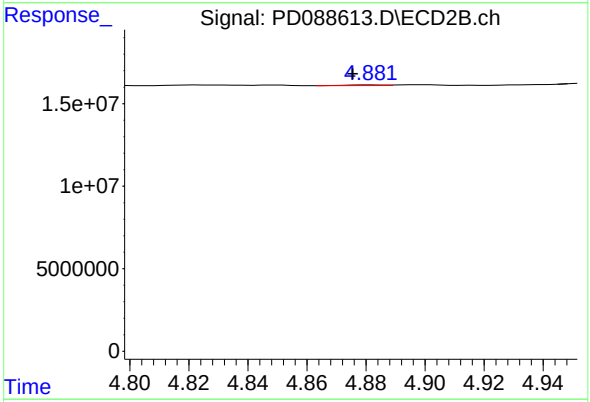
R.T.: 4.257 min
Delta R.T.: -0.006 min
Response: 762284
Conc: 0.03 ng/ml



#8 Heptachlor epoxide

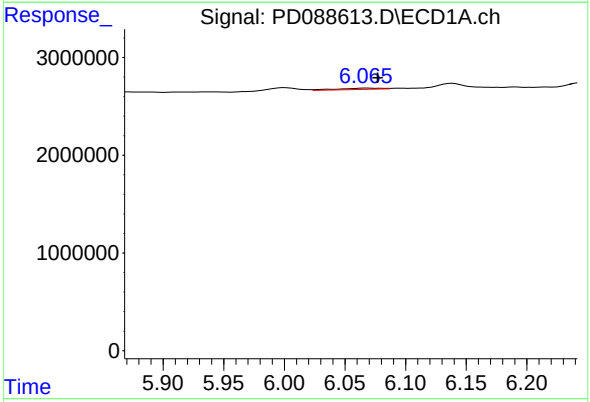
R.T.: 5.685 min
Delta R.T.: -0.007 min
Response: 2027639
Conc: 0.51 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



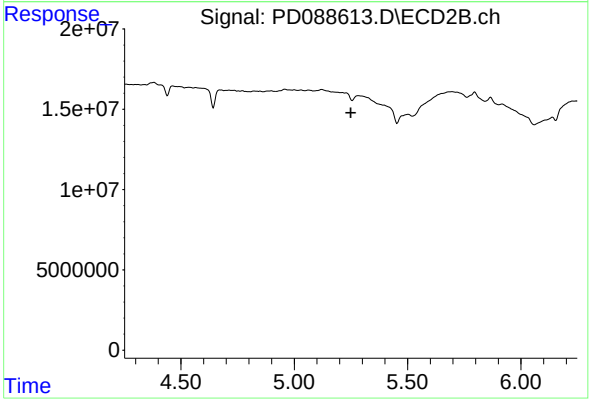
#8 Heptachlor epoxide

R.T.: 4.882 min
Delta R.T.: 0.007 min
Response: 379250
Conc: 0.02 ng/ml



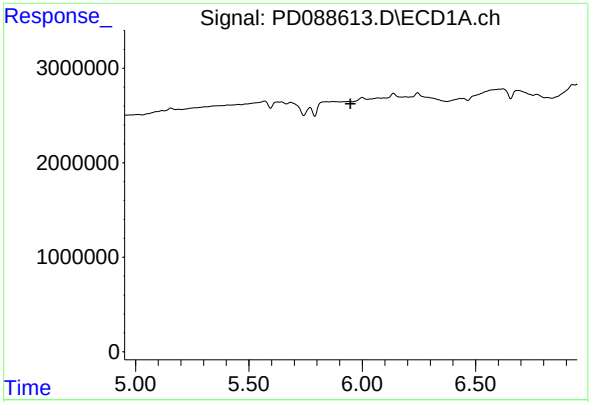
#9 Endosulfan I

R.T.: 6.067 min
Delta R.T.: -0.010 min
Response: 320523
Conc: 0.09 ng/ml



#9 Endosulfan I

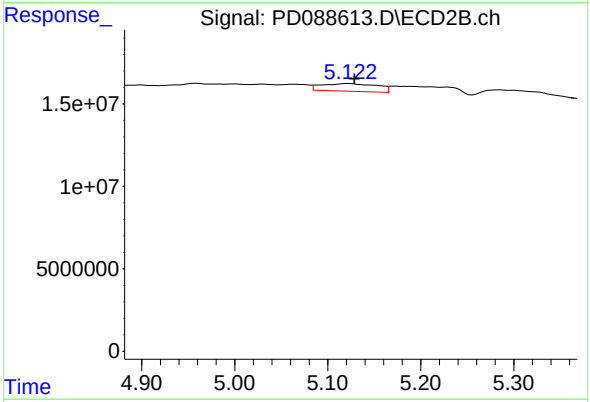
R.T.: 0.000 min
Exp R.T. : 5.250 min
Response: 0
Conc: N.D.



#10 gamma-Chlordane

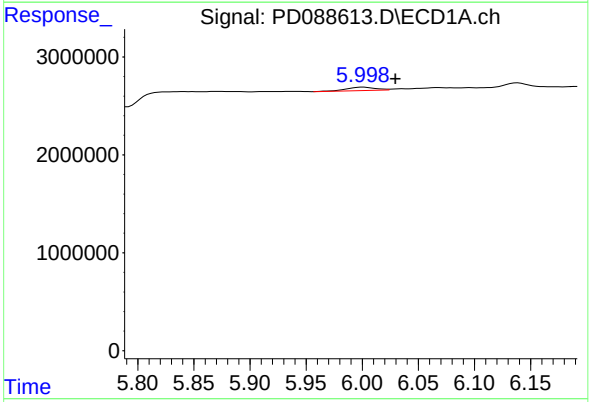
R.T.: 0.000 min
Exp R.T. : 5.948 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
I.BLK



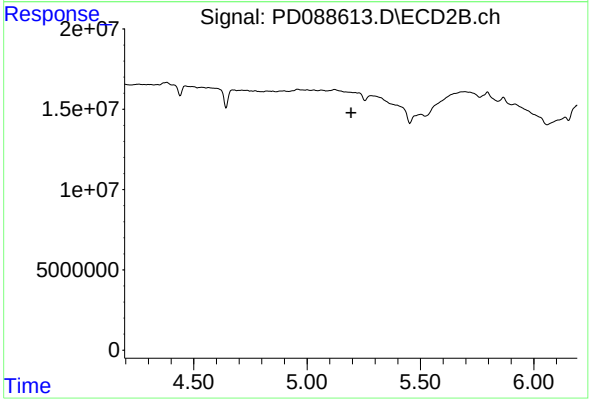
#10 gamma-Chlordane

R.T.: 5.122 min
Delta R.T.: -0.007 min
Response: 19330985
Conc: 0.91 ng/ml



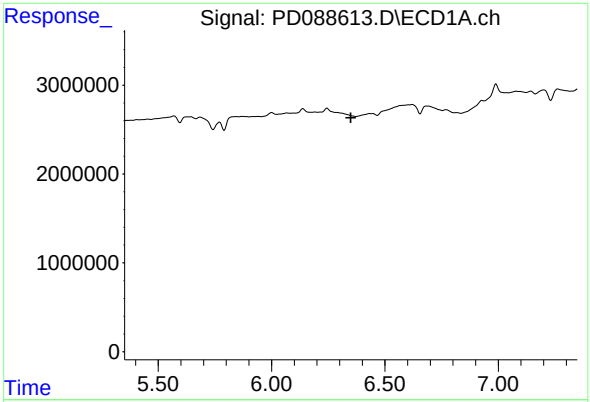
#11 alpha-Chlordane

R.T.: 6.001 min
Delta R.T.: -0.029 min
Response: 619440
Conc: 0.15 ng/ml



#11 alpha-Chlordane

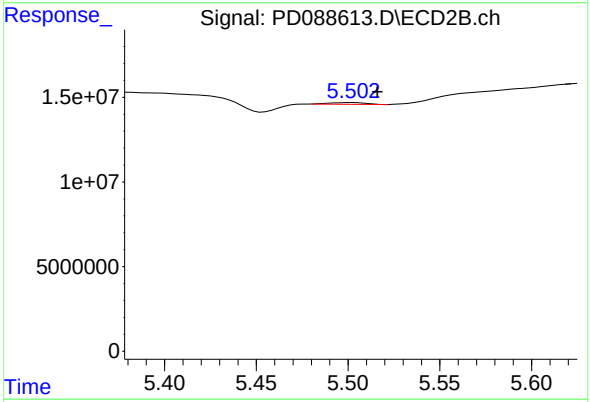
R.T.: 0.000 min
Exp R.T. : 5.194 min
Response: 0
Conc: N.D.



#13 Dieldrin

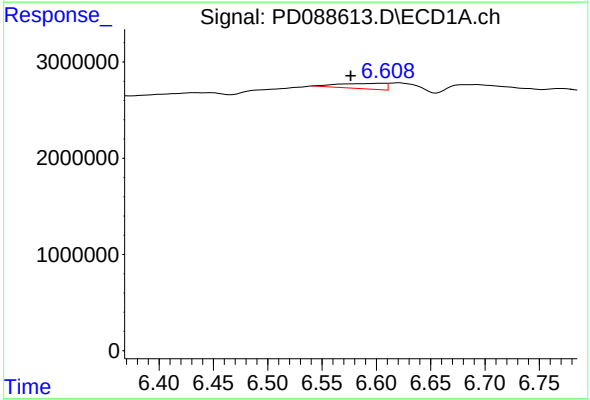
R.T.: 0.000 min
Exp R.T. : 6.350 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
I.BLK



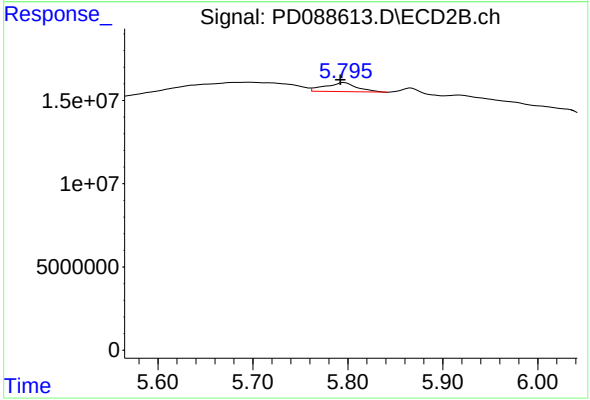
#13 Dieldrin

R.T.: 5.503 min
Delta R.T.: -0.013 min
Response: 1422037
Conc: 0.07 ng/ml



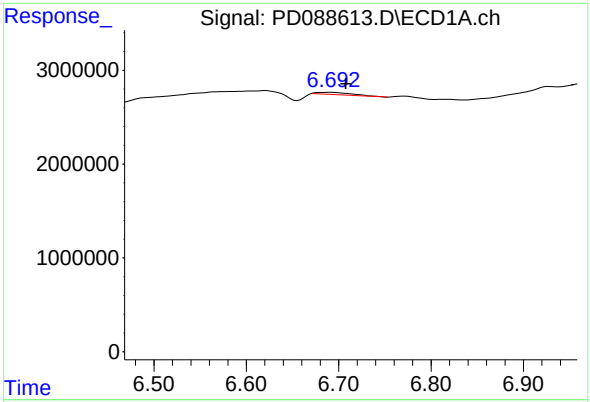
#14 Endrin

R.T.: 6.605 min
Delta R.T.: 0.028 min
Response: 1682832
Conc: 0.49 ng/ml



#14 Endrin

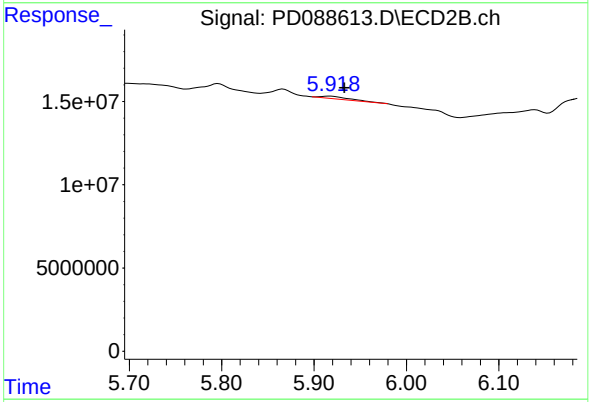
R.T.: 5.796 min
Delta R.T.: 0.004 min
Response: 12596198
Conc: 0.65 ng/ml



#16 4,4'-DDD

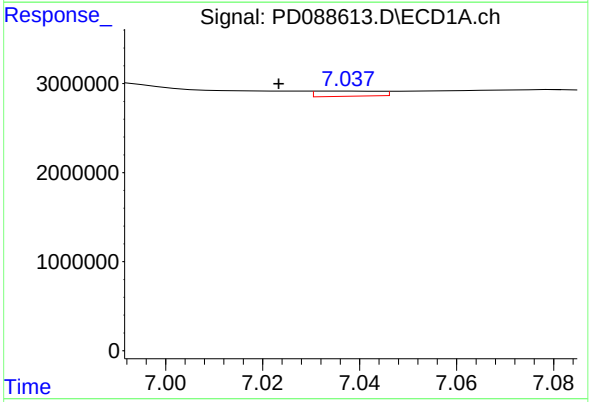
R.T.: 6.693 min
Delta R.T.: -0.015 min
Response: 651538
Conc: 0.23 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



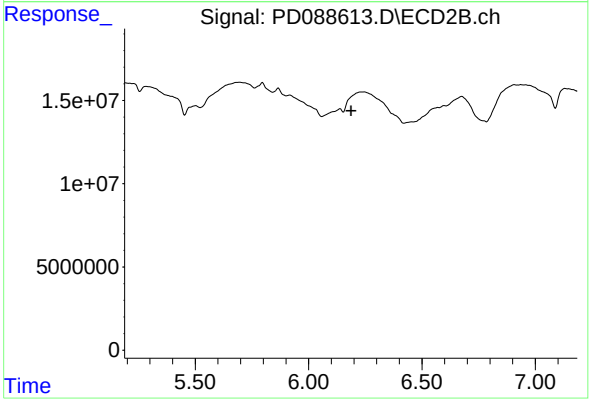
#16 4,4'-DDD

R.T.: 5.917 min
Delta R.T.: -0.015 min
Response: 2703072
Conc: 0.16 ng/ml



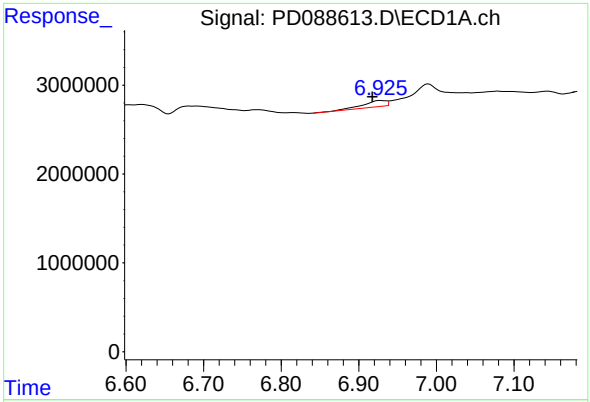
#17 4,4'-DDT

R.T.: 7.038 min
Delta R.T.: 0.015 min
Response: 533961
Conc: 0.17 ng/ml



#17 4,4'-DDT

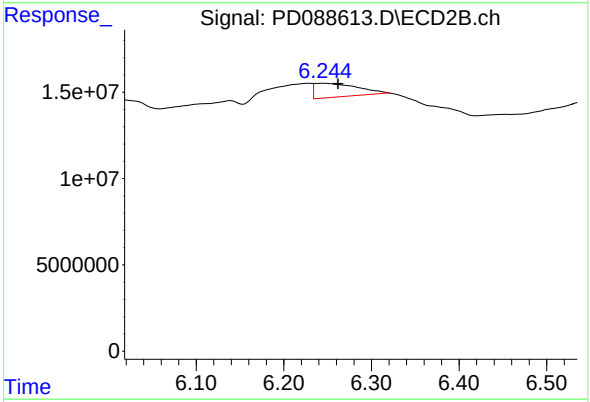
R.T.: 0.000 min
Exp R.T. : 6.187 min
Response: 0
Conc: N.D.



#18 Endrin aldehyde

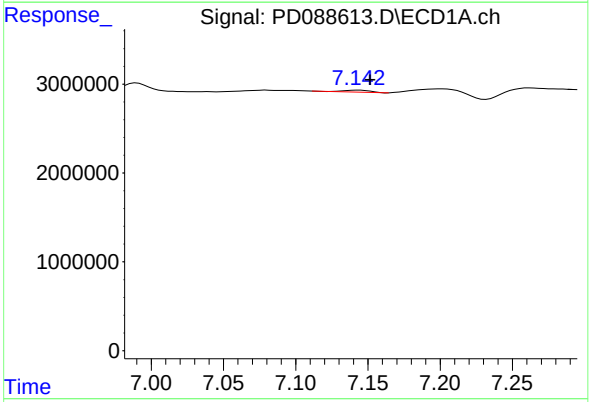
R.T.: 6.928 min
Delta R.T.: 0.010 min
Response: 1428039
Conc: 0.55 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



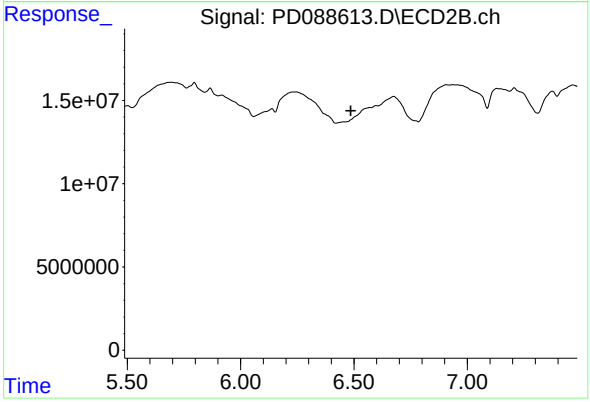
#18 Endrin aldehyde

R.T.: 6.245 min
Delta R.T.: -0.017 min
Response: 27684069
Conc: 1.99 ng/ml



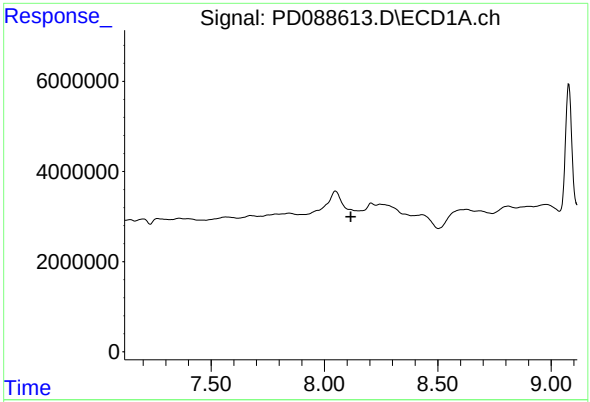
#19 Endosulfan Sulfate

R.T.: 7.143 min
Delta R.T.: -0.009 min
Response: 304614
Conc: 0.10 ng/ml



#19 Endosulfan Sulfate

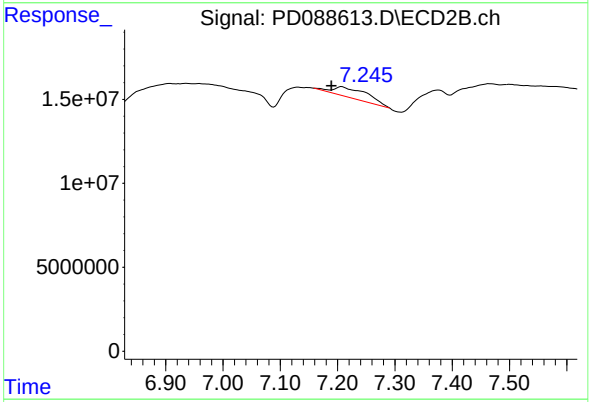
R.T.: 0.000 min
Exp R.T. : 6.486 min
Response: 0
Conc: N.D.



#22 Mirex

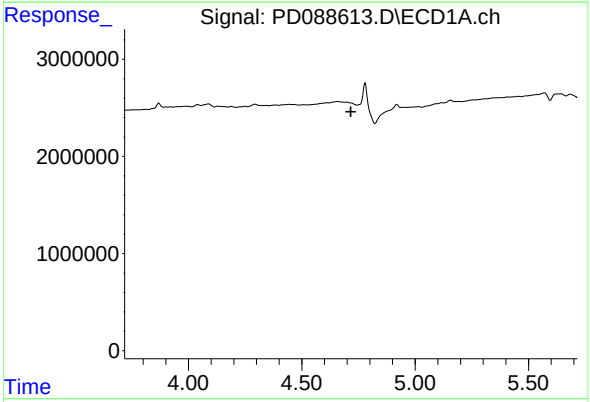
R.T.: 0.000 min
Exp R.T. : 8.117 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
I.BLK



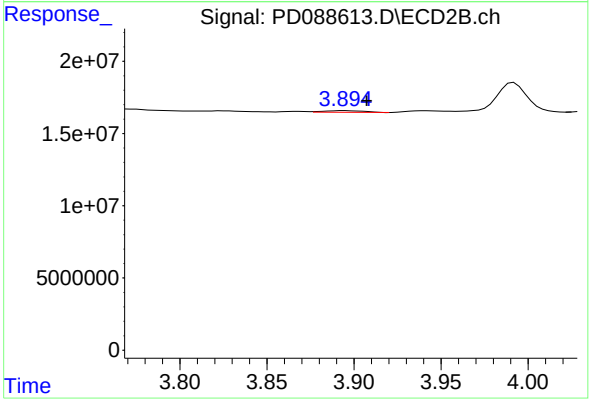
#22 Mirex

R.T.: 7.207 min
Delta R.T.: 0.018 min
Response: 24206777
Conc: 1.59 ng/ml



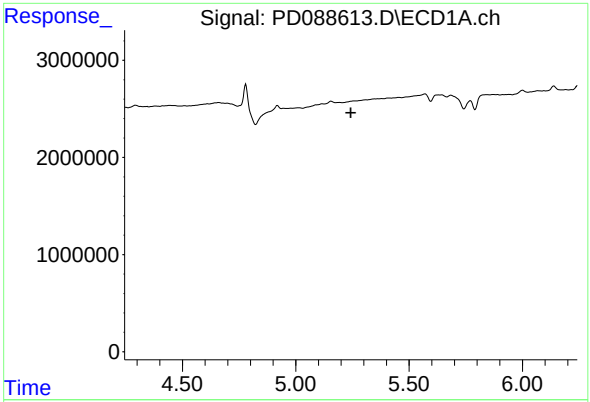
#23 Chlordane-1

R.T.: 0.000 min
Exp R.T. : 4.717 min
Response: 0
Conc: N.D.



#23 Chlordane-1

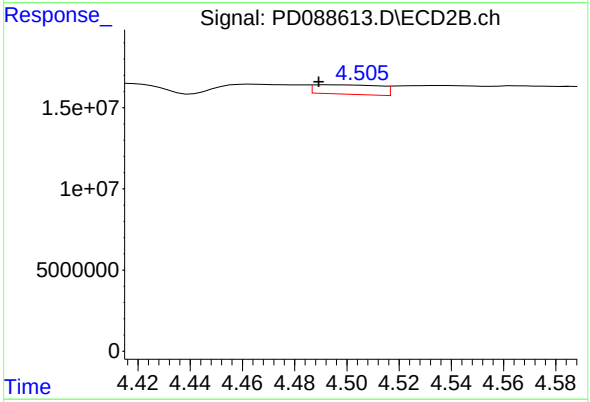
R.T.: 3.895 min
Delta R.T.: -0.012 min
Response: 1833516
Conc: 2.22 ng/ml



#24 Chlordane-2

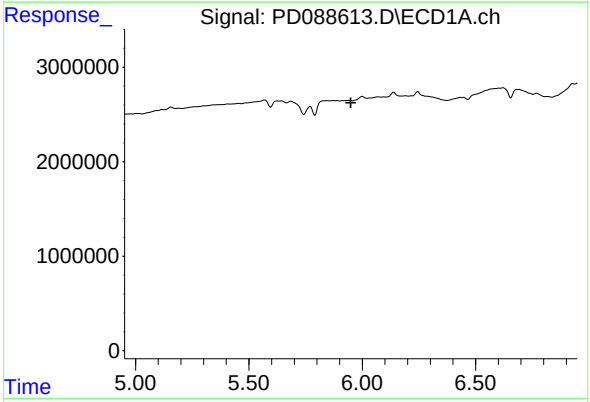
R.T.: 0.000 min
Exp R.T. : 5.244 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
I.BLK



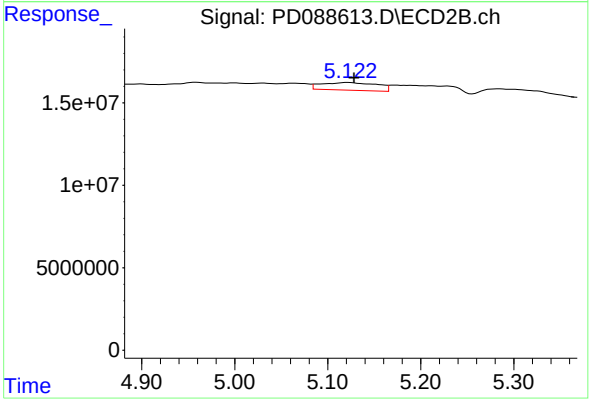
#24 Chlordane-2

R.T.: 4.494 min
Delta R.T.: 0.005 min
Response: 10098488
Conc: 11.96 ng/ml



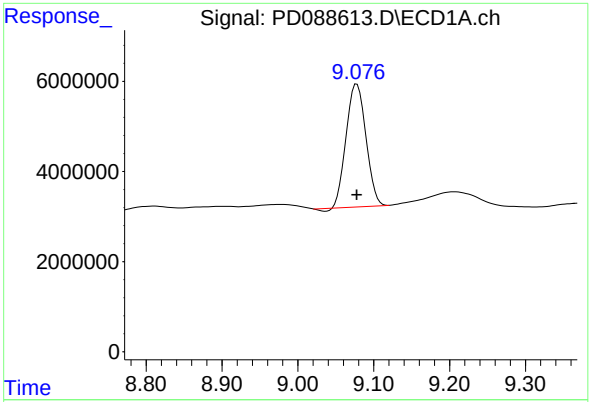
#25 Chlordane-3

R.T.: 0.000 min
Exp R.T. : 5.949 min
Response: 0
Conc: N.D.



#25 Chlordane-3

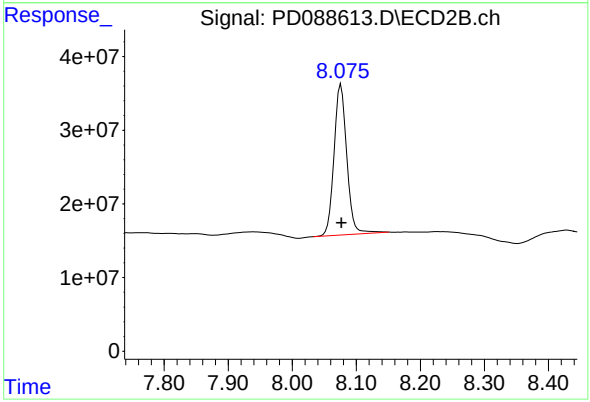
R.T.: 5.122 min
Delta R.T.: -0.007 min
Response: 19330985
Conc: 7.33 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.078 min
Delta R.T.: 0.000 min
Response: 49372747
Conc: 14.43 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 284390691
Conc: 15.58 ng/ml

Quantitation Report (Not Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088614.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 18:45
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:39:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml	
	System Monitoring Compounds							
1)	SA Tetrachlo...	3.551	2.882	126.5E6	873.1E6	58.455	57.715	
28)	SA Decachlor...	9.078	8.076	184.5E6	916.8E6	53.899	50.219	
	Target Compounds							
2)	A alpha-BHC	4.001	3.395	262.1E6	1264.5E6	54.868	52.899	
3)	MA gamma-BHC...	4.332	3.731	246.6E6	1150.6E6	53.571	51.908	
4)	MA Heptachlor	4.931	4.085	228.3E6	1120.9E6	51.060	49.918	
5)	MB Aldrin	5.273	4.371	235.4E6	1153.4E6	53.578	52.597	
6)	B beta-BHC	4.517	4.027	95168404	514.2E6	52.779	52.777	
7)	B delta-BHC	4.765	4.264	235.3E6	1177.2E6	55.681	52.802	
8)	B Heptachlo...	5.693	4.875	208.4E6	1020.8E6	52.505	51.372	
9)	A Endosulfan I	6.077	5.249	195.0E6	932.7E6	51.816	49.146	
10)	B gamma-Chl...	5.948	5.128	210.4E6	1103.0E6	52.755	51.707	
11)	B alpha-Chl...	6.029	5.193	208.6E6	1048.4E6	52.078	50.830	
12)	B 4,4'-DDE	6.198	5.378	187.0E6	1079.5E6	52.112	51.646	
13)	MA Dieldrin	6.350	5.515	210.2E6	1055.9E6	52.387	50.175	
14)	MA Endrin	6.577	5.792	177.5E6	975.2E6	51.964	50.572	
15)	B Endosulfa...	6.788	6.083	172.3E6	919.2E6	50.031	50.171	
16)	A 4,4'-DDD	6.708	5.932	149.3E6	895.2E6	53.599	51.469	
17)	MA 4,4'-DDT	7.024	6.186	141.3E6	818.3E6	45.258	45.115	
18)	B Endrin al...	6.918	6.261	126.5E6	675.4E6	49.153	48.487	
19)	B Endosulfa...	7.152	6.485	165.0E6	863.0E6	51.505	48.603	
20)	A Methoxychlor	7.496	6.757	72360216	439.4E6	43.315	45.891	
21)	B Endrin ke...	7.633	6.994	167.2E6	908.1E6	48.851	46.936	
22)	Mirex	8.117	7.188	126.0E6	725.4E6	48.484	47.719	
23)	Chlordane-1	0.000	3.896	0	3061251	N.D.	3.705	#
24)	Chlordane-2	5.273f	4.508	235.4E6	41770213	1283.061	49.490	#
25)	Chlordane-3	5.948	5.128	210.4E6	1103.0E6	284.409	418.309	#
26)	Chlordane-4	6.029	5.193	208.6E6	1048.4E6	232.809	473.833	#
27)	Chlordane-5	6.854	6.083	485726	919.2E6	3.193	918.433	#

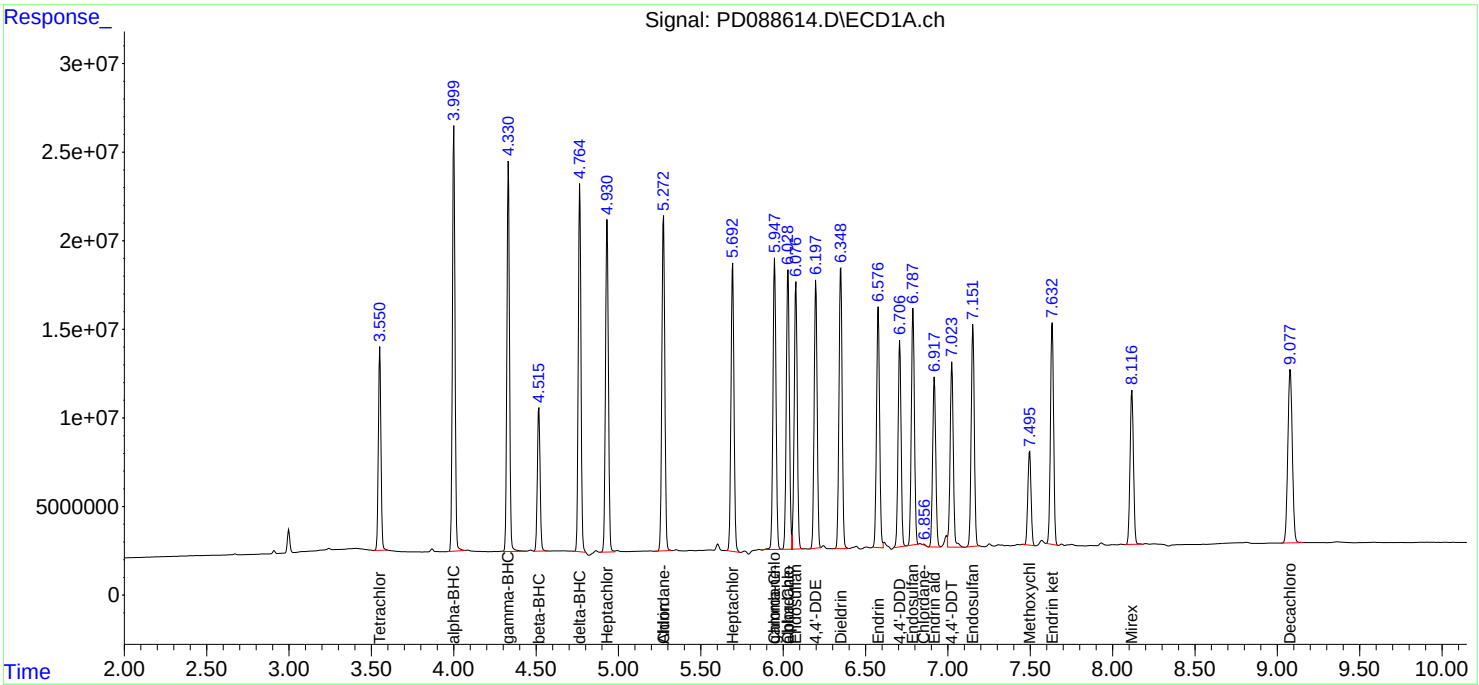
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

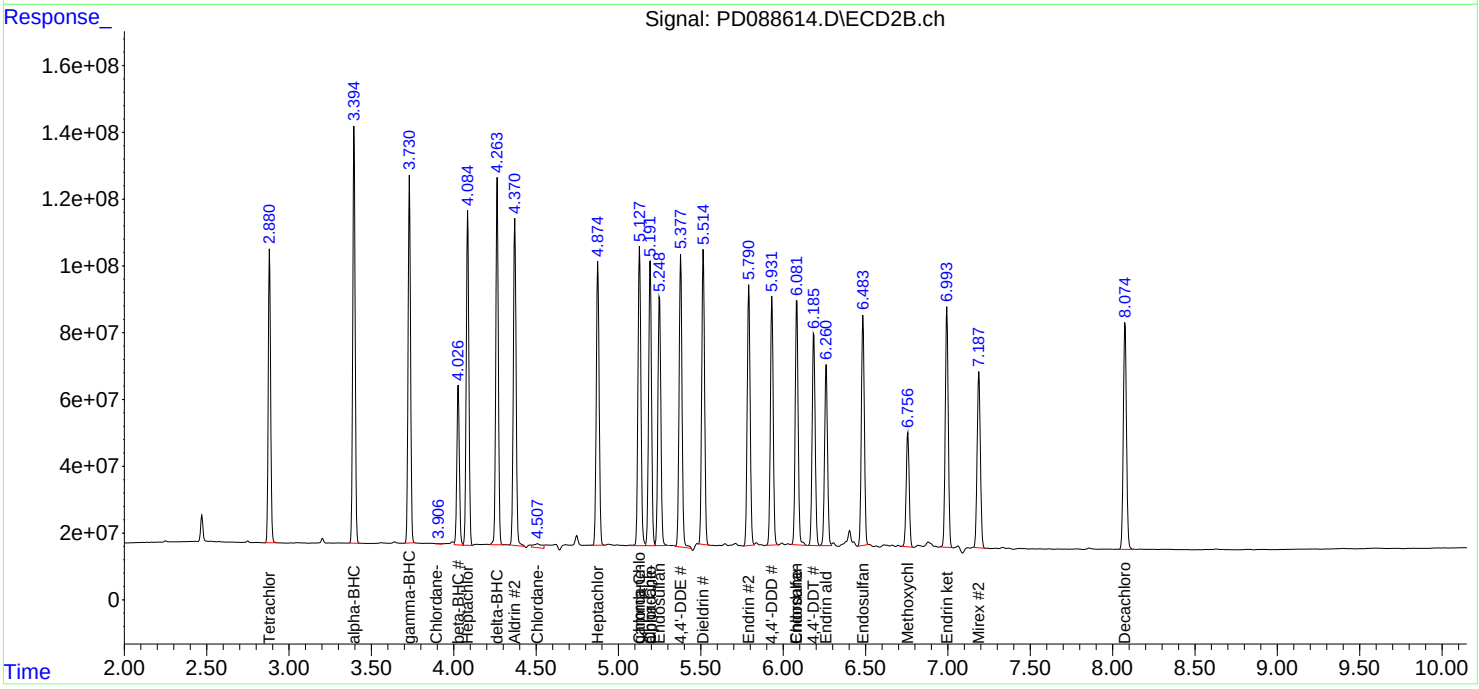
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD051925\
Data File : PD088614.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 May 2025 18:45
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

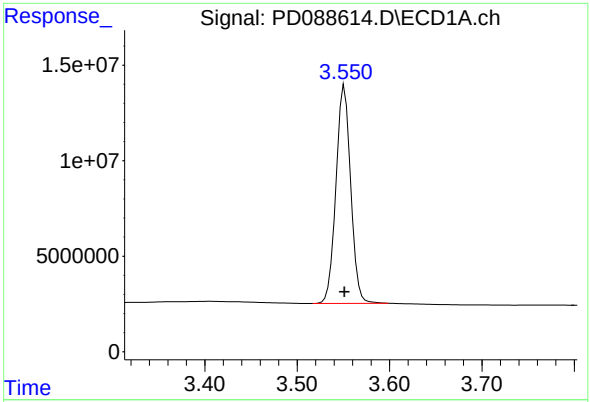
Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 20 04:39:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD051925.M
Quant Title : GC Extractables
QLast Update : Mon May 19 15:27:28 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 0.25µm



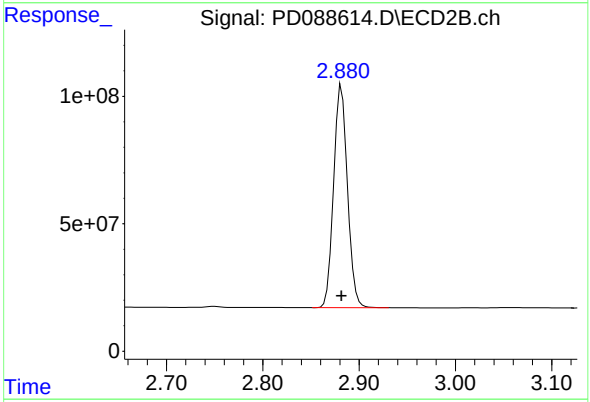




#1 Tetrachloro-m-xylene

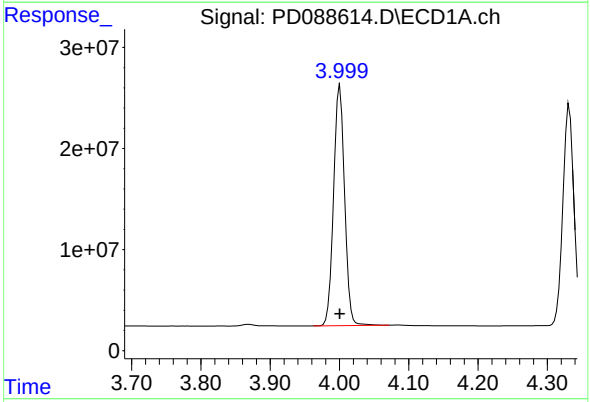
R.T.: 3.551 min
Delta R.T.: 0.000 min
Response: 126482608
Conc: 58.46 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



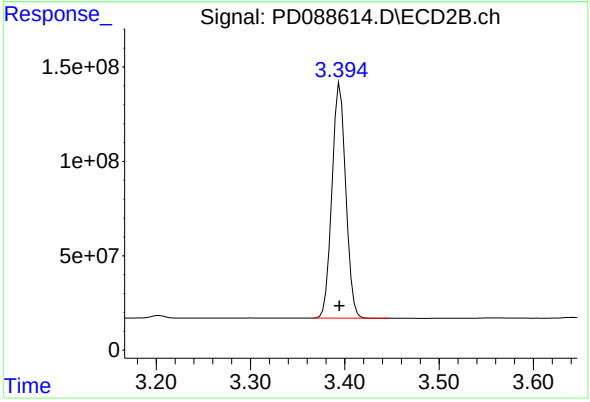
#1 Tetrachloro-m-xylene

R.T.: 2.882 min
Delta R.T.: 0.000 min
Response: 873050105
Conc: 57.72 ng/ml



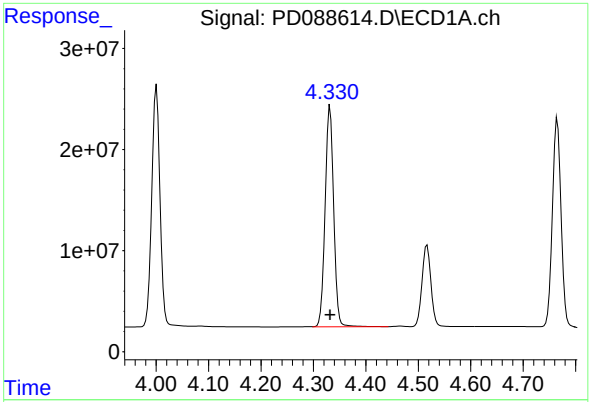
#2 alpha-BHC

R.T.: 4.001 min
Delta R.T.: 0.000 min
Response: 262079229
Conc: 54.87 ng/ml



#2 alpha-BHC

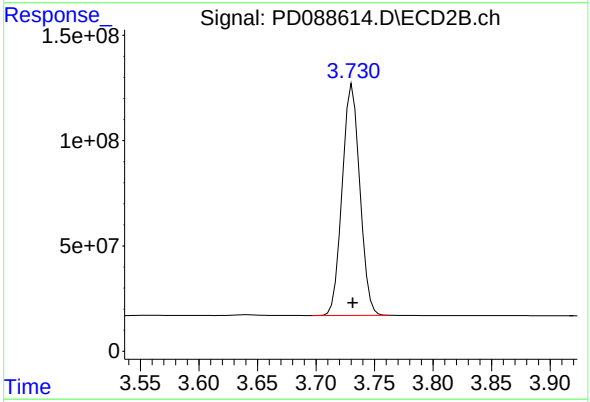
R.T.: 3.395 min
Delta R.T.: 0.000 min
Response: 1264485060
Conc: 52.90 ng/ml



#3 gamma-BHC (Lindane)

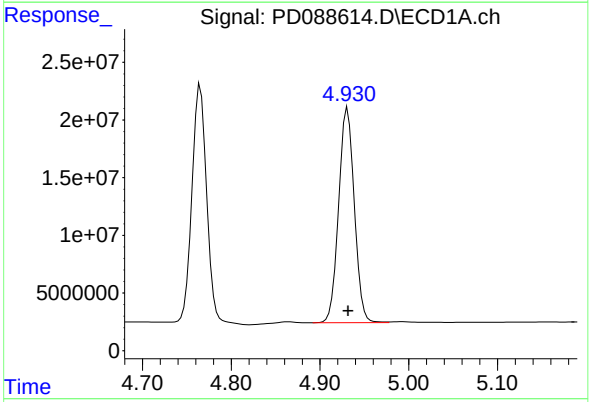
R.T.: 4.332 min
Delta R.T.: 0.000 min
Response: 246573212
Conc: 53.57 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



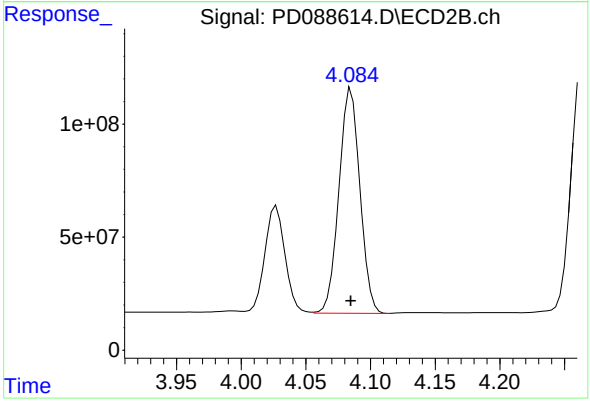
#3 gamma-BHC (Lindane)

R.T.: 3.731 min
Delta R.T.: 0.000 min
Response: 1150583267
Conc: 51.91 ng/ml



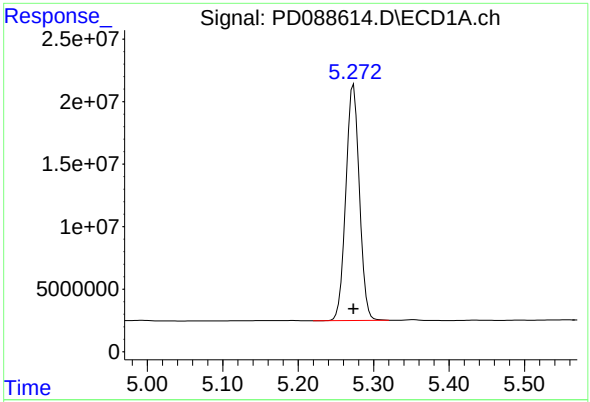
#4 Heptachlor

R.T.: 4.931 min
Delta R.T.: 0.000 min
Response: 228300712
Conc: 51.06 ng/ml



#4 Heptachlor

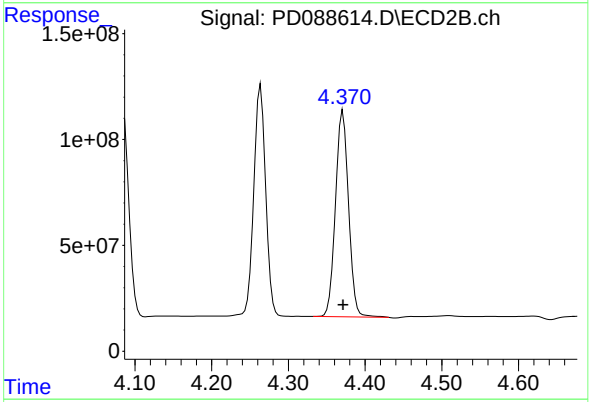
R.T.: 4.085 min
Delta R.T.: 0.000 min
Response: 1120893488
Conc: 49.92 ng/ml



#5 Aldrin

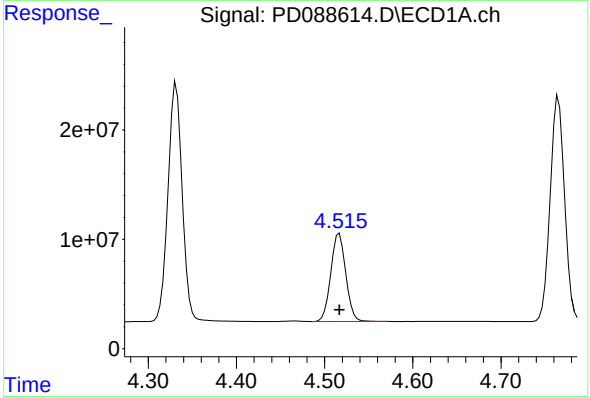
R.T.: 5.273 min
Delta R.T.: 0.000 min
Response: 235448552
Conc: 53.58 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



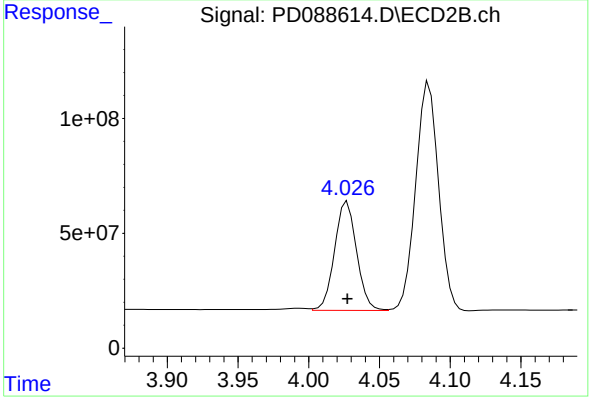
#5 Aldrin

R.T.: 4.371 min
Delta R.T.: 0.000 min
Response: 1153439210
Conc: 52.60 ng/ml



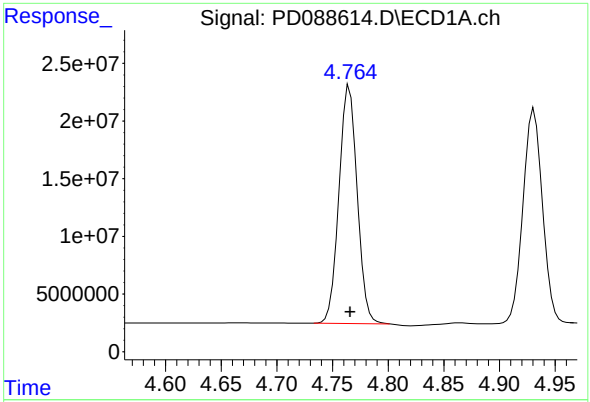
#6 beta-BHC

R.T.: 4.517 min
Delta R.T.: 0.000 min
Response: 95168404
Conc: 52.78 ng/ml



#6 beta-BHC

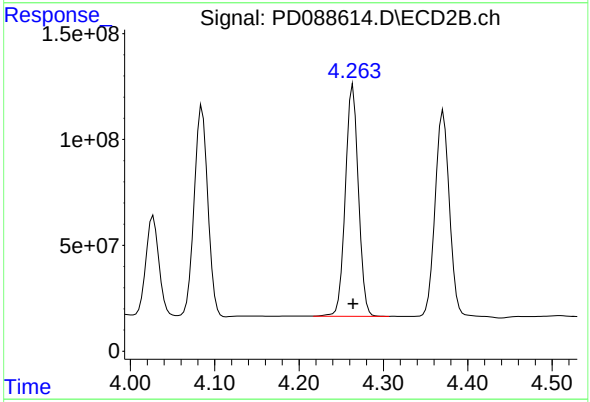
R.T.: 4.027 min
Delta R.T.: 0.000 min
Response: 514151307
Conc: 52.78 ng/ml



#7 delta-BHC

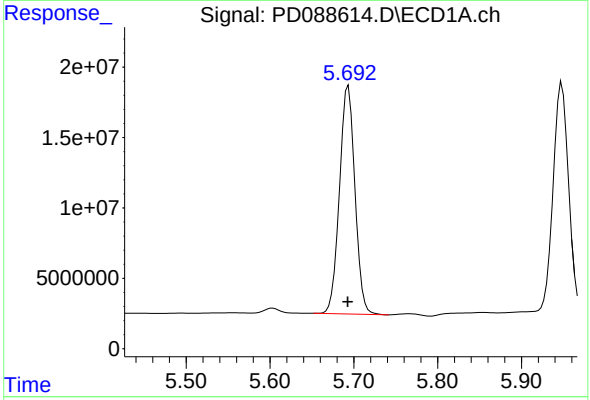
R.T.: 4.765 min
Delta R.T.: 0.000 min
Response: 235315890
Conc: 55.68 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



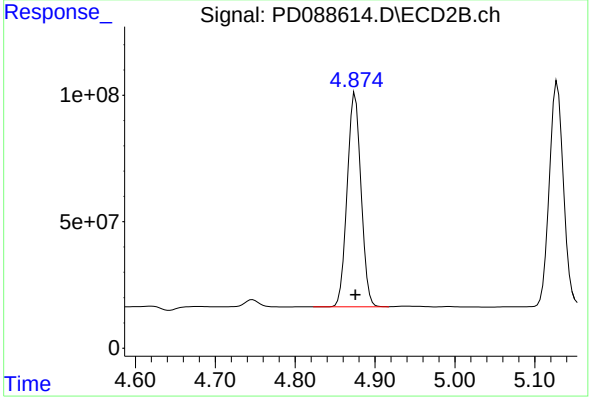
#7 delta-BHC

R.T.: 4.264 min
Delta R.T.: 0.000 min
Response: 1177181389
Conc: 52.80 ng/ml



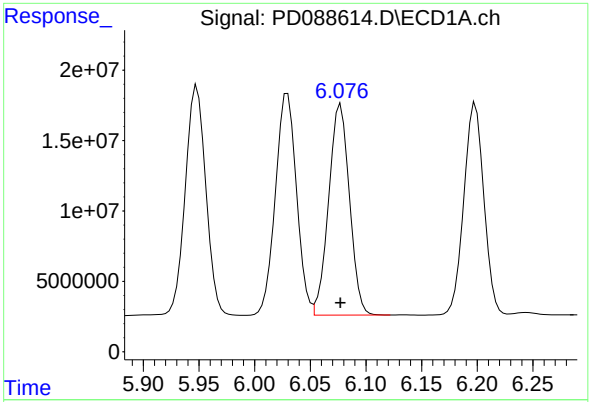
#8 Heptachlor epoxide

R.T.: 5.693 min
Delta R.T.: 0.000 min
Response: 208408919
Conc: 52.51 ng/ml



#8 Heptachlor epoxide

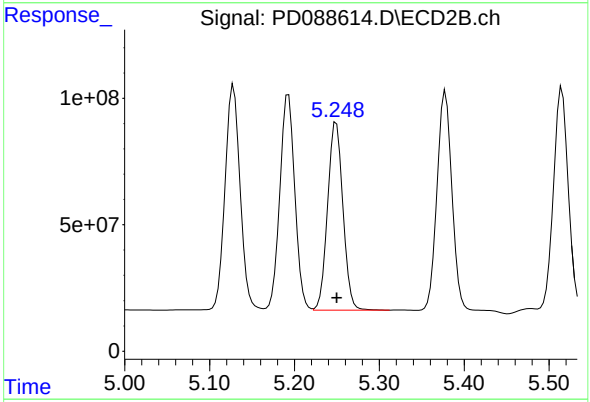
R.T.: 4.875 min
Delta R.T.: 0.000 min
Response: 1020825248
Conc: 51.37 ng/ml



#9 Endosulfan I

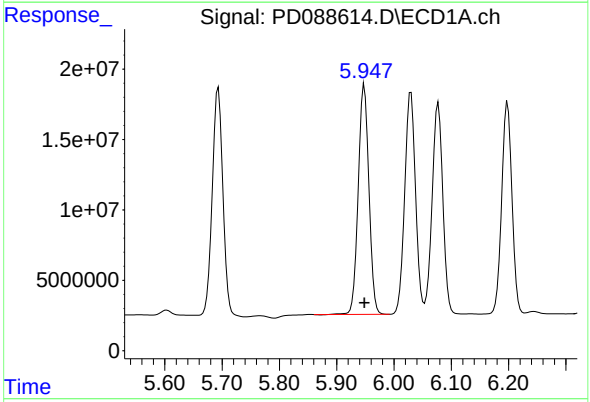
R.T.: 6.077 min
Delta R.T.: 0.000 min
Response: 194980880
Conc: 51.82 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



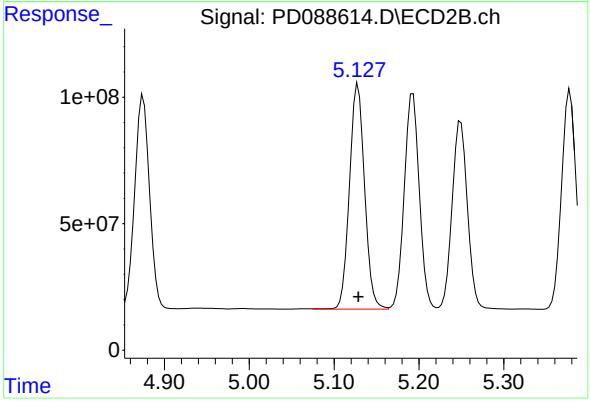
#9 Endosulfan I

R.T.: 5.249 min
Delta R.T.: 0.000 min
Response: 932713484
Conc: 49.15 ng/ml



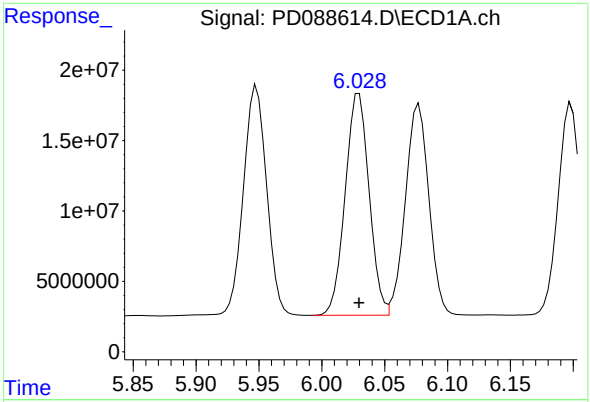
#10 gamma-Chlordane

R.T.: 5.948 min
Delta R.T.: 0.000 min
Response: 210435607
Conc: 52.75 ng/ml



#10 gamma-Chlordane

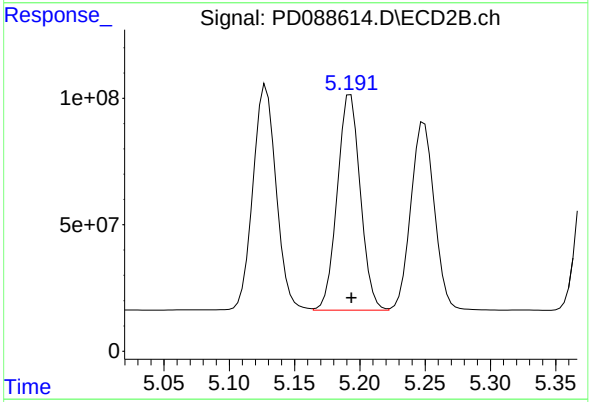
R.T.: 5.128 min
Delta R.T.: 0.000 min
Response: 1103009442
Conc: 51.71 ng/ml



#11 alpha-Chlordane

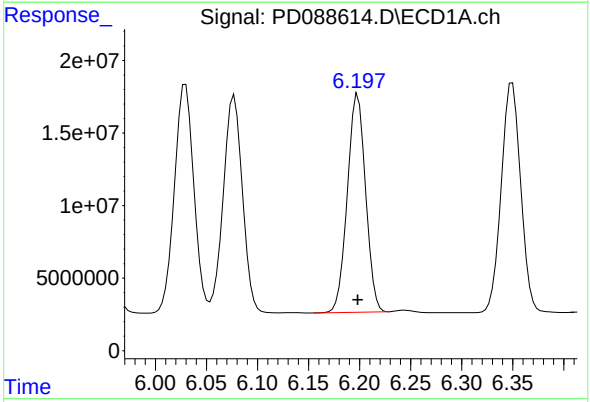
R.T.: 6.029 min
Delta R.T.: 0.000 min
Response: 208639122
Conc: 52.08 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



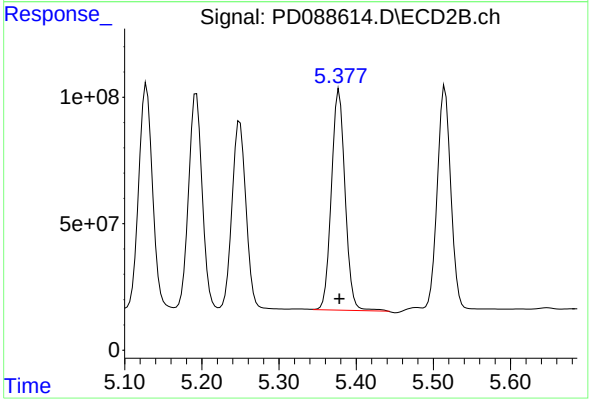
#11 alpha-Chlordane

R.T.: 5.193 min
Delta R.T.: 0.000 min
Response: 1048352082
Conc: 50.83 ng/ml



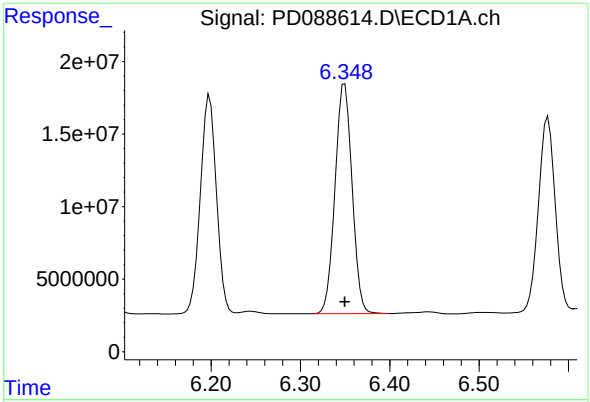
#12 4,4'-DDE

R.T.: 6.198 min
Delta R.T.: 0.000 min
Response: 187048372
Conc: 52.11 ng/ml



#12 4,4'-DDE

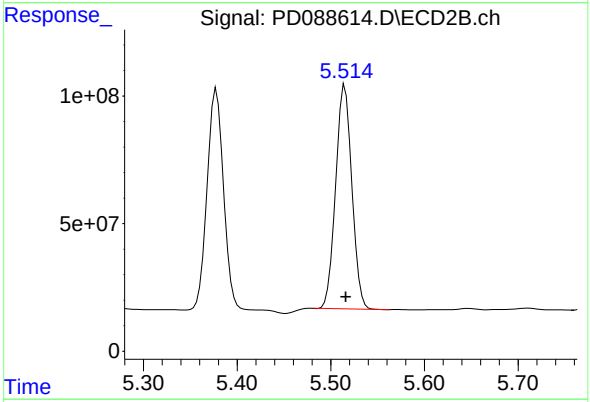
R.T.: 5.378 min
Delta R.T.: 0.000 min
Response: 1079544898
Conc: 51.65 ng/ml



#13 Dieldrin

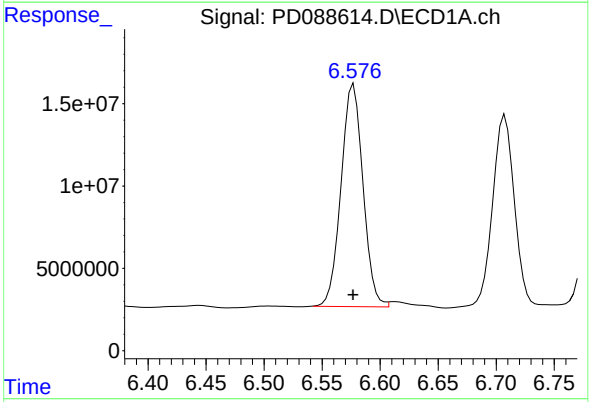
R.T.: 6.350 min
Delta R.T.: 0.000 min
Response: 210161439
Conc: 52.39 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



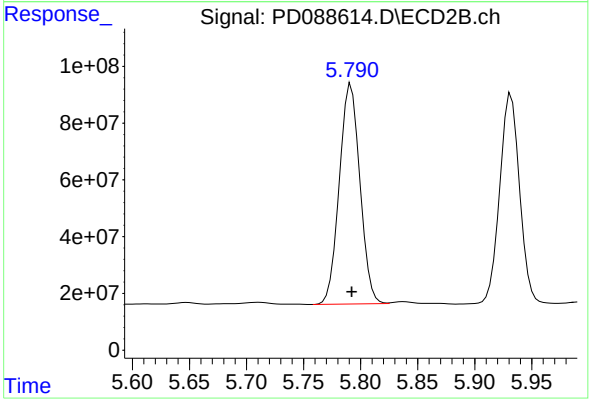
#13 Dieldrin

R.T.: 5.515 min
Delta R.T.: 0.000 min
Response: 1055872439
Conc: 50.17 ng/ml



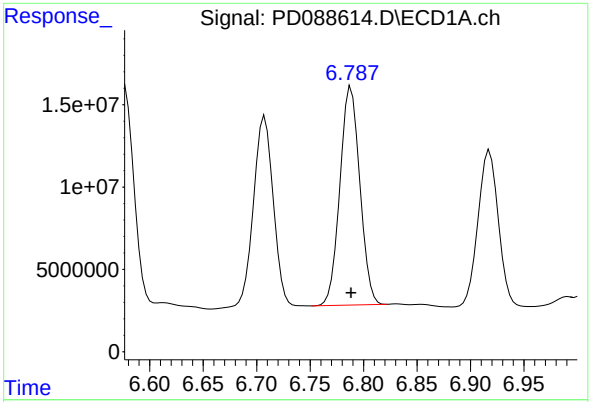
#14 Endrin

R.T.: 6.577 min
Delta R.T.: 0.000 min
Response: 177464986
Conc: 51.96 ng/ml



#14 Endrin

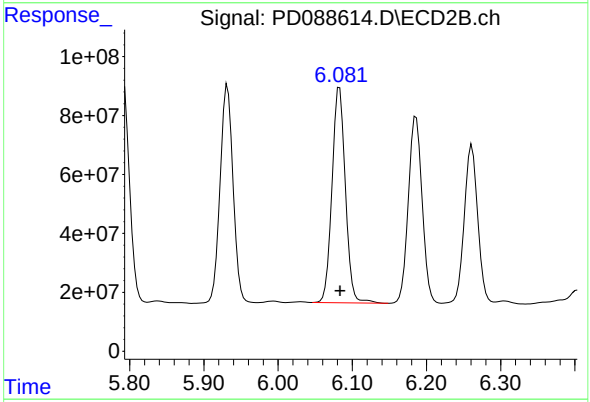
R.T.: 5.792 min
Delta R.T.: 0.000 min
Response: 975222677
Conc: 50.57 ng/ml



#15 Endosulfan II

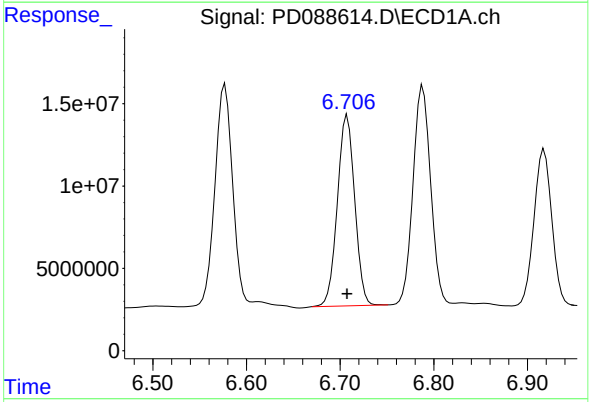
R.T.: 6.788 min
Delta R.T.: 0.000 min
Response: 172285934
Conc: 50.03 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



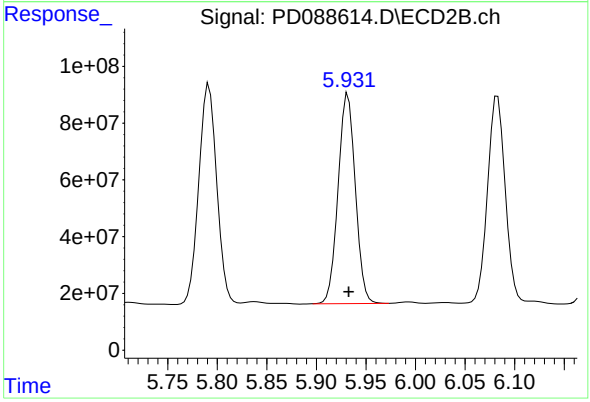
#15 Endosulfan II

R.T.: 6.083 min
Delta R.T.: 0.000 min
Response: 919217692
Conc: 50.17 ng/ml



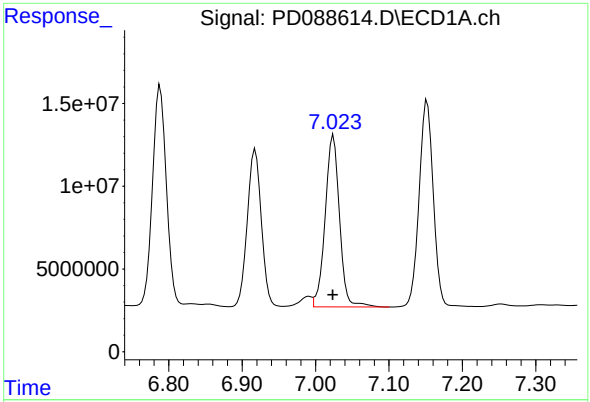
#16 4,4'-DDD

R.T.: 6.708 min
Delta R.T.: 0.000 min
Response: 149279969
Conc: 53.60 ng/ml



#16 4,4'-DDD

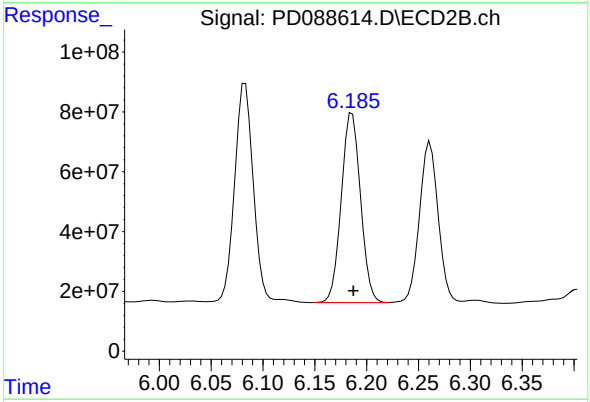
R.T.: 5.932 min
Delta R.T.: 0.000 min
Response: 895167039
Conc: 51.47 ng/ml



#17 4,4'-DDT

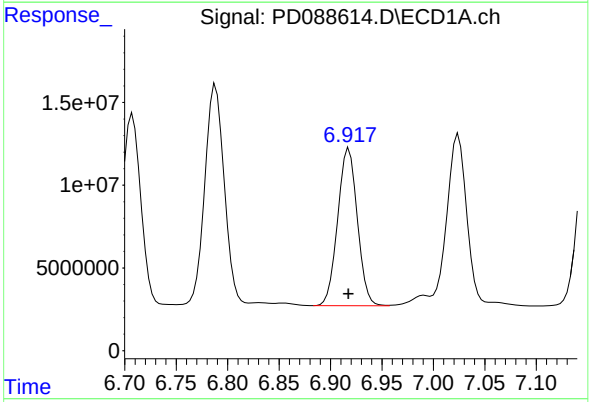
R.T.: 7.024 min
Delta R.T.: 0.000 min
Response: 141298714
Conc: 45.26 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



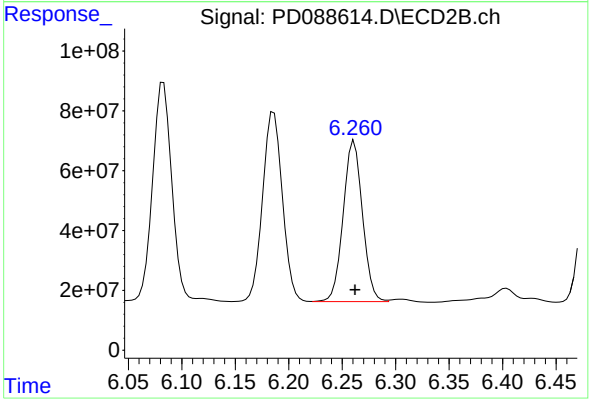
#17 4,4'-DDT

R.T.: 6.186 min
Delta R.T.: -0.001 min
Response: 818269391
Conc: 45.12 ng/ml



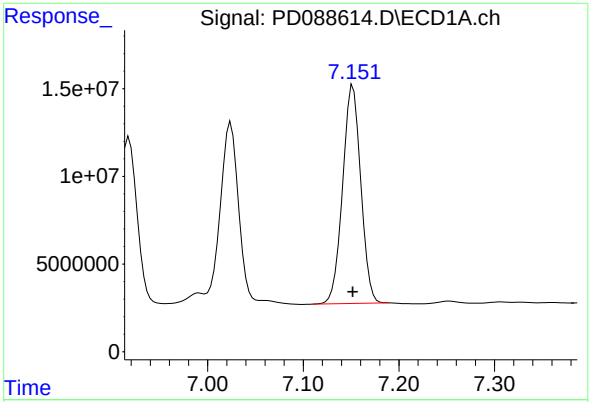
#18 Endrin aldehyde

R.T.: 6.918 min
Delta R.T.: 0.000 min
Response: 126548538
Conc: 49.15 ng/ml



#18 Endrin aldehyde

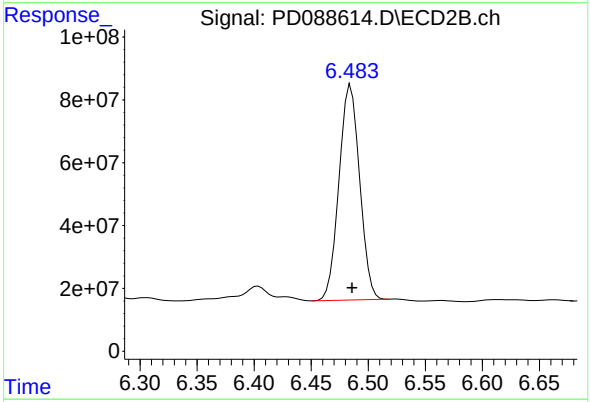
R.T.: 6.261 min
Delta R.T.: 0.000 min
Response: 675364589
Conc: 48.49 ng/ml



#19 Endosulfan Sulfate

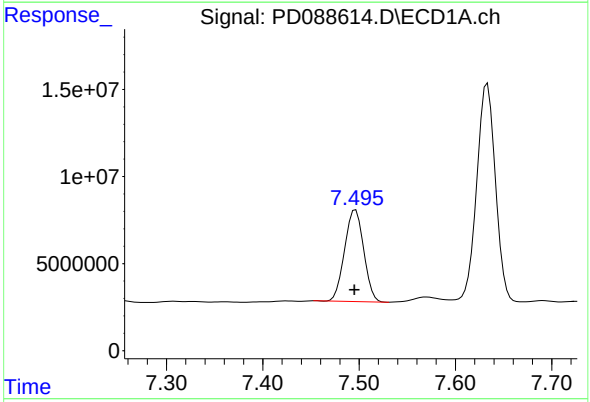
R.T.: 7.152 min
Delta R.T.: 0.000 min
Response: 164974406
Conc: 51.51 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



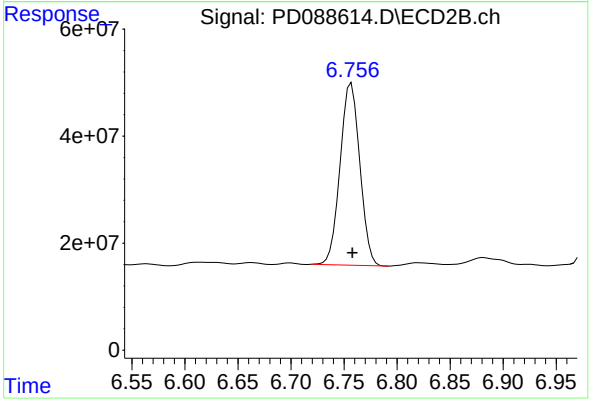
#19 Endosulfan Sulfate

R.T.: 6.485 min
Delta R.T.: -0.001 min
Response: 862984719
Conc: 48.60 ng/ml



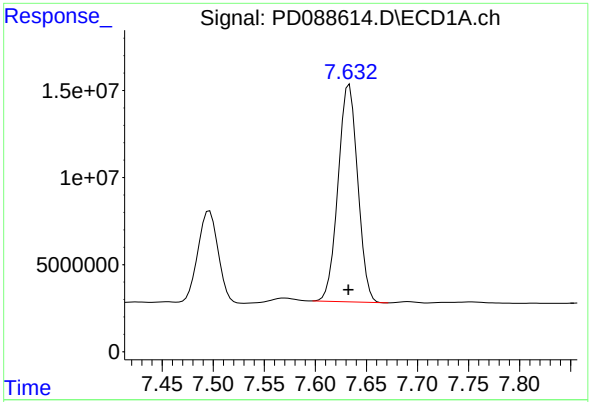
#20 Methoxychlor

R.T.: 7.496 min
Delta R.T.: 0.001 min
Response: 72360216
Conc: 43.32 ng/ml



#20 Methoxychlor

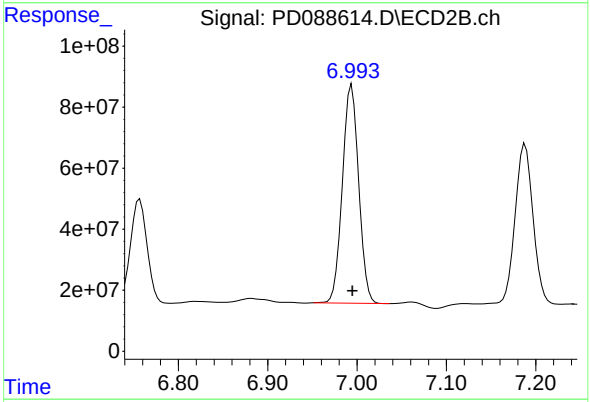
R.T.: 6.757 min
Delta R.T.: -0.001 min
Response: 439400168
Conc: 45.89 ng/ml



#21 Endrin ketone

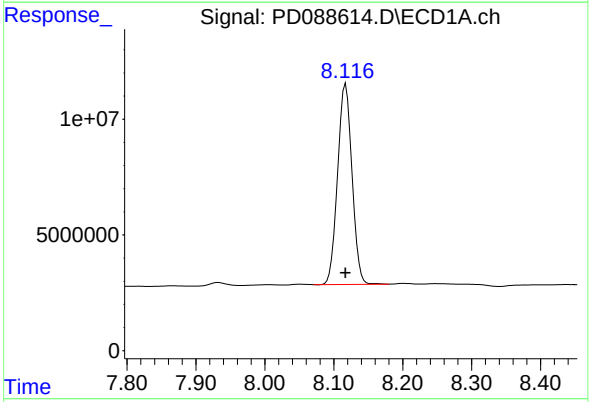
R.T.: 7.633 min
Delta R.T.: 0.000 min
Response: 167225439
Conc: 48.85 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



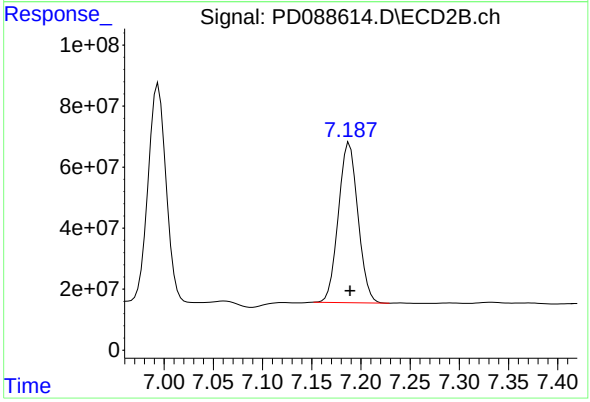
#21 Endrin ketone

R.T.: 6.994 min
Delta R.T.: 0.000 min
Response: 908090173
Conc: 46.94 ng/ml



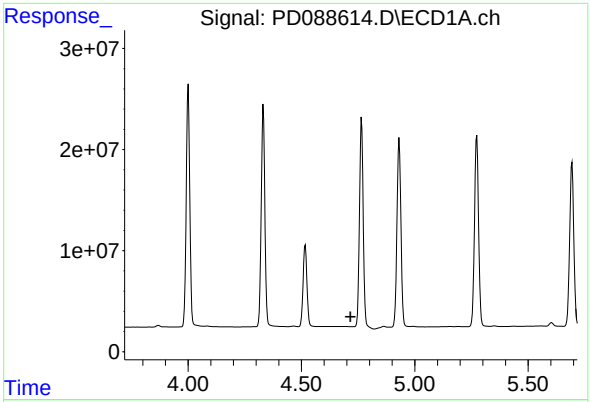
#22 Mirex

R.T.: 8.117 min
Delta R.T.: 0.000 min
Response: 125974550
Conc: 48.48 ng/ml



#22 Mirex

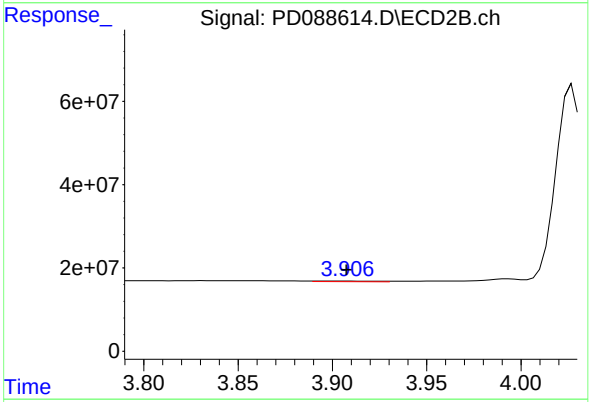
R.T.: 7.188 min
Delta R.T.: 0.000 min
Response: 725446498
Conc: 47.72 ng/ml



#23 Chlordane-1

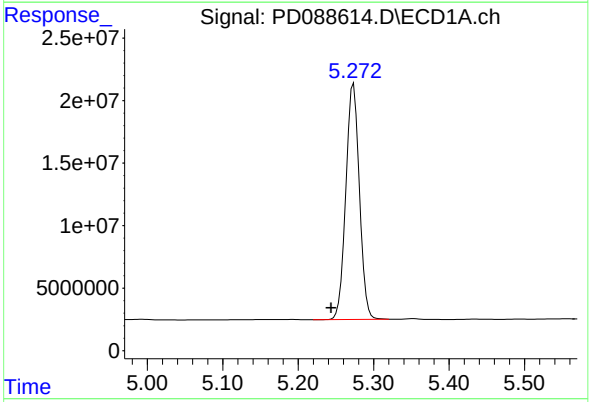
R.T.: 0.000 min
Exp R.T. : 4.717 min
Response: 0
Conc: N.D.

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



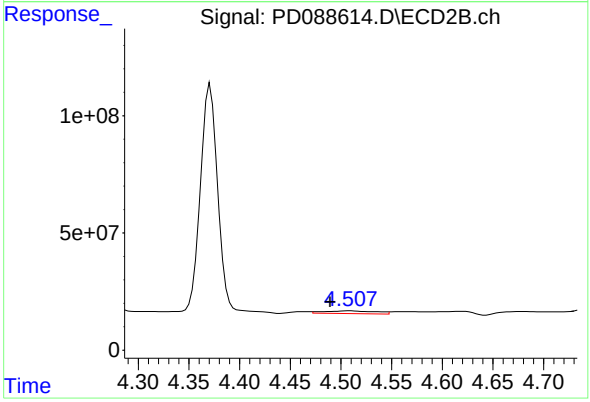
#23 Chlordane-1

R.T.: 3.896 min
Delta R.T.: -0.011 min
Response: 3061251
Conc: 3.70 ng/ml



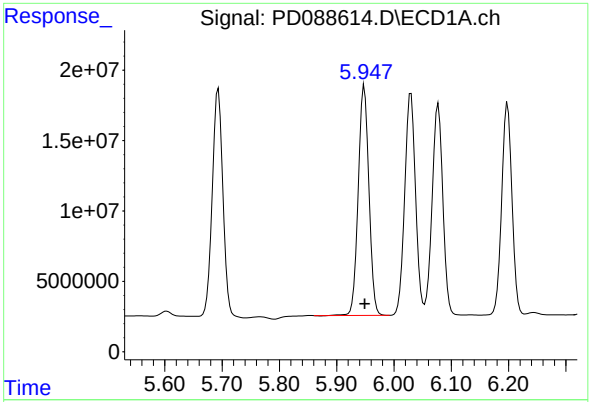
#24 Chlordane-2

R.T.: 5.273 min
Delta R.T.: 0.030 min
Response: 235448552
Conc: 1283.06 ng/ml



#24 Chlordane-2

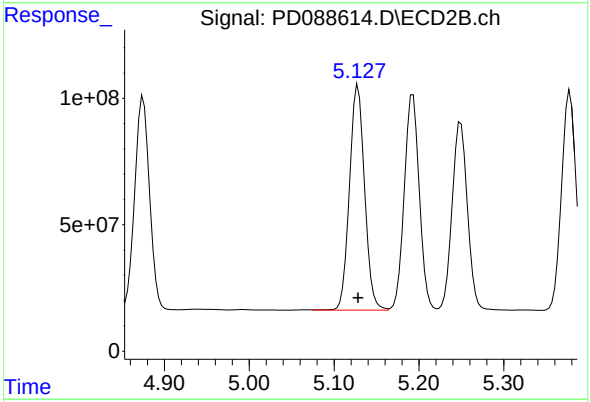
R.T.: 4.508 min
Delta R.T.: 0.019 min
Response: 41770213
Conc: 49.49 ng/ml



#25 Chlordane-3

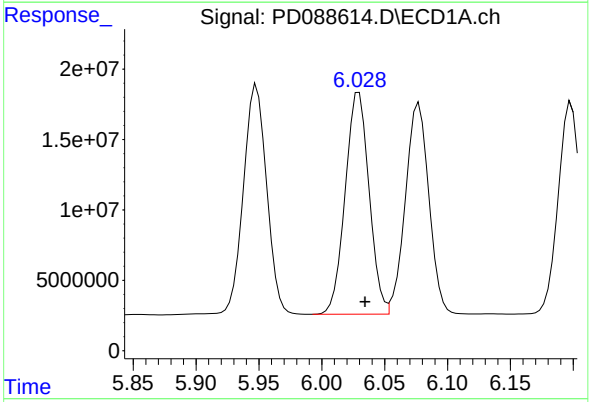
R.T.: 5.948 min
Delta R.T.: 0.000 min
Response: 210435607
Conc: 284.41 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



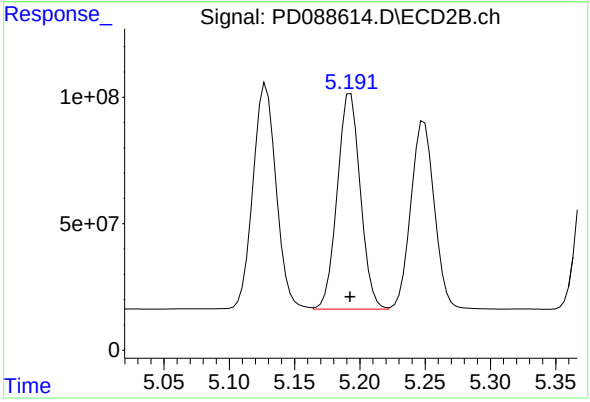
#25 Chlordane-3

R.T.: 5.128 min
Delta R.T.: 0.000 min
Response: 1103009442
Conc: 418.31 ng/ml



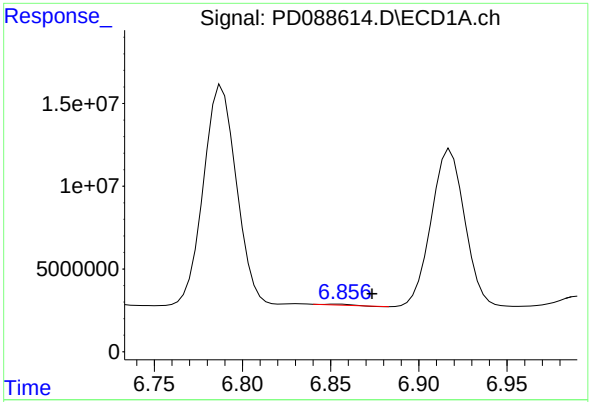
#26 Chlordane-4

R.T.: 6.029 min
Delta R.T.: -0.005 min
Response: 208639122
Conc: 232.81 ng/ml



#26 Chlordane-4

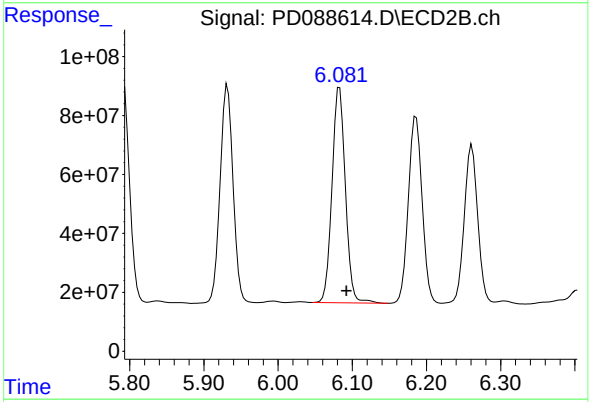
R.T.: 5.193 min
Delta R.T.: 0.000 min
Response: 1048352082
Conc: 473.83 ng/ml



#27 Chlordane-5

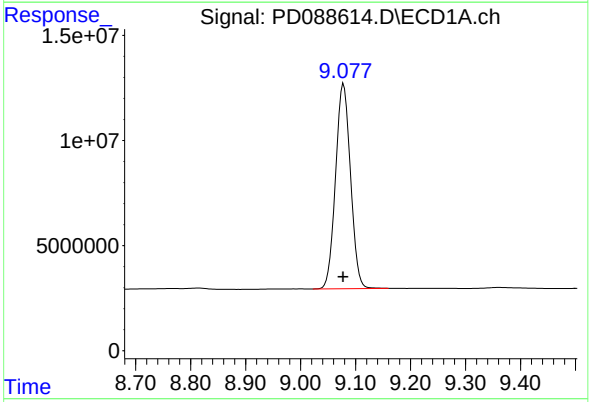
R.T.: 6.854 min
Delta R.T.: -0.019 min
Response: 485726
Conc: 3.19 ng/ml

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050



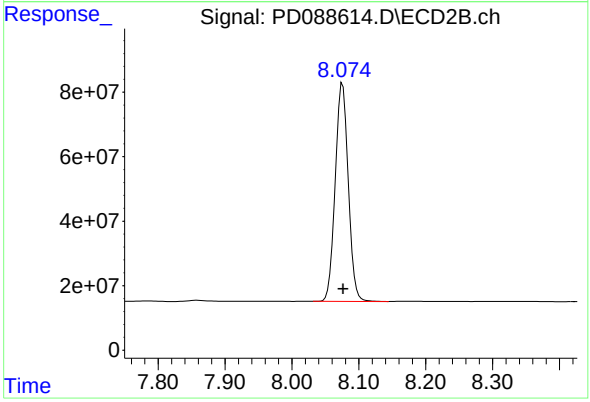
#27 Chlordane-5

R.T.: 6.083 min
Delta R.T.: -0.010 min
Response: 919217692
Conc: 918.43 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.078 min
Delta R.T.: 0.000 min
Response: 184460947
Conc: 53.90 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.076 min
Delta R.T.: 0.000 min
Response: 916806063
Conc: 50.22 ng/ml