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ANALYTICAL REPORT

Job Number: 280-168095-2

Job Description: Basin School Chemicals ER - Basin, WY

For:
Tetra Tech, Inc.
1560 Broadway
Suite 1400
Denver, CO 80202

Attention: Maura McAleese

Approved for release.
Shelby R Turner
Project Manager I
10/31/2022 4:54 PM

Shelby R Turner, Project Manager I
4955 Yarrow Street, Arvada, CO, 80002
Shelby.Turner@et.eurofinsus.com
10/31/2022

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the Eurofins TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 280-168095-2
Project/Site: Basin School Chemicals ER - Basin, WY

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: Basin School Chemicals ER - Basin, WY

Report Number: 280-168095-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 10/21/2022 3:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 24.9º C.

The following samples were received at the laboratory outside the required temperature criteria at 24.9C: BS-T-01-BIG (280-168095-1), BS-T-02-SMALL (280-168095-2), BS-DISPOSAL-01 (280-168095-3), BS-T-01-BIG (280-168095-4) and BS-T-02-SMALL (280-168095-5). This does not meet regulatory requirements. It can be noted that the samples requesting 8082A PCBs are considered out of temp at receipt. The sample requesting TCLP RCRA Metals is out of temp for 7470A TCLP Mercury. 6010D TCLP RCRA Metals and Moisture due not require thermal preservation. The laboratory will proceed with analysis unless instructed otherwise.

1 x 4oz soil jars submitted for samples BS-T-01-BIG (280-168095-1) and BS-T-02-SMALL (280-168095-2) were received filled with about 1/3 volume. The laboratory will proceed with analysis from the limited volume.

Samples BS-T-01-BIG and BS-T-02-SMALL were logged for 4 BD turnaround time and will be reported under SDG 280-168095-2. Sample BS-DISPOSAL-01 is logged for 4 BD turnaround time and will be reported under SDG 280-168095-1.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples BS-T-01-BIG (280-168095-4) and BS-T-02-SMALL (280-168095-5) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082A. The samples were prepared on 10/24/2022 and analyzed on 10/25/2022.

DCB Decachlorobiphenyl failed the surrogate recovery criteria high for BS-T-01-BIG (280-168095-4). DCB Decachlorobiphenyl failed the surrogate recovery criteria high for BS-T-02-SMALL (280-168095-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Samples BS-T-01-BIG (280-168095-4)[10X] and BS-T-02-SMALL (280-168095-5)[20X] required dilution prior to analysis due to the nature of the sample matrix. The reporting limits have been adjusted accordingly. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

The following samples in preparation batch 280-591039 and analytical batch 280-591125 required a sulfuric acid clean-up, via EPA Method 3665A, to reduce matrix interferences: BS-T-01-BIG (280-168095-4), BS-T-02-SMALL (280-168095-5), (LCS 280-591039/4-A), (LCSD 280-591039/5-A) and (MB 280-591039/1-A).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Tetra Tech, Inc.
Job ID: 280-168095-2
Project/Site: Basin School Chemicals ER - Basin, WY

Client Sample ID: BS-T-01-BIG
Lab Sample ID: 280-168095-4

No Detections.

Client Sample ID: BS-T-02-SMALL
Lab Sample ID: 280-168095-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1260	83000		20000	1600	ug/Kg	20		8082A	Total/NA
Polychlorinated biphenyls, Total	83000		20000	1600	ug/Kg	20		8082A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Basin School Chemicals ER - Basin, WY

Job ID: 280-168095-2

Client Sample ID: BS-T-01-BIG

Lab Sample ID: 280-168095-4
Date Collected: 10/19/22 13:40
Matrix: Waste
Date Received: 10/21/22 15:15

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	2300	U	14000	2300	ug/Kg		10/24/22 16:37	10/25/22 22:49	10
PCB-1016	1500	U	9900	1500	ug/Kg		10/24/22 16:37	10/25/22 22:49	10
PCB-1232	1500	U	9900	1500	ug/Kg		10/24/22 16:37	10/25/22 22:49	10
PCB-1242	2700	U	9900	2700	ug/Kg		10/24/22 16:37	10/25/22 22:49	10
PCB-1248	1700	U	9900	1700	ug/Kg		10/24/22 16:37	10/25/22 22:49	10
PCB-1254	1700	U	9900	1700	ug/Kg		10/24/22 16:37	10/25/22 22:49	10
PCB-1260	800	U	9900	800	ug/Kg		10/24/22 16:37	10/25/22 22:49	10
PCB-1262	1100	U	9900	1100	ug/Kg		10/24/22 16:37	10/25/22 22:49	10
PCB-1268	1200	U	9900	1200	ug/Kg		10/24/22 16:37	10/25/22 22:49	10
Polychlorinated biphenyls, Total	800	U	9900	800	ug/Kg		10/24/22 16:37	10/25/22 22:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*	*D*	*53 - 128*	*10/24/22 16:37*	*10/25/22 22:49*	*10*
DCB Decachlorobiphenyl	*133*	*S1+ D*	*59 - 130*	*10/24/22 16:37*	*10/25/22 22:49*	*10*

Client Sample ID: BS-T-02-SMALL

Lab Sample ID: 280-168095-5
Date Collected: 10/19/22 13:50
Matrix: Waste
Date Received: 10/21/22 15:15

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	4500	U	28000	4500	ug/Kg		10/24/22 16:37	10/25/22 23:07	20
PCB-1016	3100	U	20000	3100	ug/Kg		10/24/22 16:37	10/25/22 23:07	20
PCB-1232	3100	U	20000	3100	ug/Kg		10/24/22 16:37	10/25/22 23:07	20
PCB-1242	5500	U	20000	5500	ug/Kg		10/24/22 16:37	10/25/22 23:07	20
PCB-1248	3400	U	20000	3400	ug/Kg		10/24/22 16:37	10/25/22 23:07	20
PCB-1254	3300	U	20000	3300	ug/Kg		10/24/22 16:37	10/25/22 23:07	20
PCB-1260	**83000**		20000	1600	ug/Kg		10/24/22 16:37	10/25/22 23:07	20
PCB-1262	2300	U	20000	2300	ug/Kg		10/24/22 16:37	10/25/22 23:07	20
PCB-1268	2400	U	20000	2400	ug/Kg		10/24/22 16:37	10/25/22 23:07	20
Polychlorinated biphenyls, Total	**83000**		20000	1600	ug/Kg		10/24/22 16:37	10/25/22 23:07	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*64*	*D*	*53 - 128*	*10/24/22 16:37*	*10/25/22 23:07*	*20*
DCB Decachlorobiphenyl	*135*	*S1+ D*	*59 - 130*	*10/24/22 16:37*	*10/25/22 23:07*	*20*

Default Detection Limits

Client: Tetra Tech, Inc.
Job ID: 280-168095-2
Project/Site: Basin School Chemicals ER - Basin, WY

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Prep: 3580A

Analyte	RL	MDL	Units
PCB-1016	990	150	ug/Kg
PCB-1221	1400	230	ug/Kg
PCB-1232	990	150	ug/Kg
PCB-1242	990	270	ug/Kg
PCB-1248	990	170	ug/Kg
PCB-1254	990	170	ug/Kg
PCB-1260	990	80	ug/Kg
PCB-1262	990	110	ug/Kg
PCB-1268	990	120	ug/Kg
Polychlorinated biphenyls, Total	990	80	ug/Kg

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Basin School Chemicals ER - Basin, WY

Job ID: 280-168095-2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Waste

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	**Client Sample ID**	**TCX1 (53-128)**	**DCBP1 (59-130)**						
280-168095-4	BS-T-01-BIG	72 D	133 S1+ D						
280-168095-5	BS-T-02-SMALL	64 D	135 S1+ D						
LCS 280-591039/4-A	Lab Control Sample	102	112						
LCSD 280-591039/5-A	Lab Control Sample Dup	103	109						
MB 280-591039/1-A	Method Blank	101	115						

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Basin School Chemicals ER - Basin, WY

Job ID: 280-168095-2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 280-591039/1-A
Matrix: Waste
Analysis Batch: 591125

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 591039

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	230	U	1400	230	ug/Kg		10/24/22 16:37	10/25/22 20:37	1
PCB-1016	150	U	990	150	ug/Kg		10/24/22 16:37	10/25/22 20:37	1
PCB-1232	150	U	990	150	ug/Kg		10/24/22 16:37	10/25/22 20:37	1
PCB-1242	270	U	990	270	ug/Kg		10/24/22 16:37	10/25/22 20:37	1
PCB-1248	170	U	990	170	ug/Kg		10/24/22 16:37	10/25/22 20:37	1
PCB-1254	170	U	990	170	ug/Kg		10/24/22 16:37	10/25/22 20:37	1
PCB-1260	80	U	990	80	ug/Kg		10/24/22 16:37	10/25/22 20:37	1
PCB-1262	110	U	990	110	ug/Kg		10/24/22 16:37	10/25/22 20:37	1
PCB-1268	120	U	990	120	ug/Kg		10/24/22 16:37	10/25/22 20:37	1
Polychlorinated biphenyls, Total	80	U	990	80	ug/Kg		10/24/22 16:37	10/25/22 20:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*101*		*53 - 128*	*10/24/22 16:37*	*10/25/22 20:37*	*1*
DCB Decachlorobiphenyl	*115*		*59 - 130*	*10/24/22 16:37*	*10/25/22 20:37*	*1*

Lab Sample ID: LCS 280-591039/4-A
Matrix: Waste
Analysis Batch: 591125

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 591039

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			2000	2090		ug/Kg		104	54 - 132		
PCB-1260			2000	2290		ug/Kg		115	62 - 129		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*102*		*53 - 128*
DCB Decachlorobiphenyl	*112*		*59 - 130*

Lab Sample ID: LCSD 280-591039/5-A
Matrix: Waste
Analysis Batch: 591125

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 591039

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			2000	2190		ug/Kg		110	54 - 132	5	36
PCB-1260			2000	2420		ug/Kg		121	62 - 129	5	44

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*103*		*53 - 128*
DCB Decachlorobiphenyl	*109*		*59 - 130*

QC Association Summary

Client: Tetra Tech, Inc.
Job ID: 280-168095-2
Project/Site: Basin School Chemicals ER - Basin, WY

GC Semi VOA

Prep Batch: 591039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-168095-4	BS-T-01-BIG	Total/NA	Waste	3580A	
280-168095-5	BS-T-02-SMALL	Total/NA	Waste	3580A	
MB 280-591039/1-A	Method Blank	Total/NA	Waste	3580A	
LCS 280-591039/4-A	Lab Control Sample	Total/NA	Waste	3580A	
LCSD 280-591039/5-A	Lab Control Sample Dup	Total/NA	Waste	3580A	

Analysis Batch: 591125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-168095-4	BS-T-01-BIG	Total/NA	Waste	8082A	591039
280-168095-5	BS-T-02-SMALL	Total/NA	Waste	8082A	591039
MB 280-591039/1-A	Method Blank	Total/NA	Waste	8082A	591039
LCS 280-591039/4-A	Lab Control Sample	Total/NA	Waste	8082A	591039
LCSD 280-591039/5-A	Lab Control Sample Dup	Total/NA	Waste	8082A	591039

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 280-168095-2
Project/Site: Basin School Chemicals ER - Basin, WY

Client Sample ID: BS-T-01-BIG
Lab Sample ID: 280-168095-4

Date Collected: 10/19/22 13:40
Matrix: Waste
Date Received: 10/21/22 15:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3580A			1.0 g	10 mL	591039	10/24/22 16:37	GML	EET DEN
Total/NA	Analysis	8082A		10	1 mL	1 mL	591125	10/25/22 22:49	SP	EET DEN

Client Sample ID: BS-T-02-SMALL
Lab Sample ID: 280-168095-5

Date Collected: 10/19/22 13:50
Matrix: Waste
Date Received: 10/21/22 15:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3580A			1.0 g	10 mL	591039	10/24/22 16:37	GML	EET DEN
Total/NA	Analysis	8082A		20	1 mL	1 mL	591125	10/25/22 23:07	SP	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Job ID: 280-168095-2
Project/Site: Basin School Chemicals ER - Basin, WY

Laboratory: Eurofins Denver

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Utah	NELAP	CO000262019-11	07-31-23

Method Summary

Client: Tetra Tech, Inc.
Job ID: 280-168095-2
Project/Site: Basin School Chemicals ER - Basin, WY

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET DEN
3580A	Waste Dilution	SW846	EET DEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Tetra Tech, Inc.
Job ID: 280-168095-2
Project/Site: Basin School Chemicals ER - Basin, WY

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-168095-4	BS-T-01-BIG	Waste	10/19/22 13:40	10/21/22 15:15
280-168095-5	BS-T-02-SMALL	Waste	10/19/22 13:50	10/21/22 15:15

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Instrument ID: SGC_P3 Analysis Batch Number: 583810

Lab Sample ID: STD7 280-583810/7 IC Client Sample ID:

Date Analyzed: 08/12/22 12:05 Lab File ID: 08120007.D GC Column: CLP1 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
DCB Decachlorobiphenyl	10.42	Peak assignment corrected	USP3	08/15/22 10:13

Lab Sample ID: STD7 280-583810/7 IC Client Sample ID:

Date Analyzed: 08/12/22 12:05 Lab File ID: 08120007.D GC Column: CLP2 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
DCB Decachlorobiphenyl	10.58	Peak assignment corrected	USP3	08/15/22 10:15

Lab Sample ID: ICIS 280-583810/9 Client Sample ID:

Date Analyzed: 08/12/22 12:44 Lab File ID: 08120009.D GC Column: CLP1 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 3	5.15	Peak assignment corrected	USP3	08/15/22 10:08
PCB-1016 Peak 5	5.74	Peak assignment corrected	USP3	08/15/22 10:08
PCB-1260		Unspecified		
PCB-1260 Peak 1	7.14	Peak assignment corrected	USP3	08/15/22 10:09
PCB-1260 Peak 2	7.48	Peak assignment corrected	USP3	08/15/22 10:09
PCB-1260 Peak 3	7.83	Peak assignment corrected	USP3	08/15/22 10:09
PCB-1260 Peak 4	8.69	Peak assignment corrected	USP3	08/15/22 10:09
PCB-1260 Peak 5	9.06	Peak assignment corrected	USP3	08/15/22 10:09
DCB Decachlorobiphenyl	10.42	Peak assignment corrected	USP3	08/15/22 10:10

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Instrument ID: SGC_P3 Analysis Batch Number: 583810

Lab Sample ID: ICIS 280-583810/9 Client Sample ID:

Date Analyzed: 08/12/22 12:44 Lab File ID: 08120009.D GC Column: CLP2 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 3	5.09	Peak assignment corrected	USP3	08/15/22 10:08
PCB-1016 Peak 4	5.24	Peak assignment corrected	USP3	08/15/22 10:08
PCB-1016 Peak 5	5.72	Peak assignment corrected	USP3	08/15/22 10:08
PCB-1260		Unspecified		
PCB-1260 Peak 1	7.17	Peak assignment corrected	USP3	08/15/22 10:10
PCB-1260 Peak 2	7.43	Peak assignment corrected	USP3	08/15/22 10:10
PCB-1260 Peak 4	8.71	Peak assignment corrected	USP3	08/15/22 10:10
PCB-1260 Peak 5	9.19	Peak assignment corrected	USP3	08/15/22 10:10
DCB Decachlorobiphenyl	10.58	Peak assignment corrected	USP3	08/15/22 10:15

Lab Sample ID: STD4 280-583810/10 IC Client Sample ID:

Date Analyzed: 08/12/22 13:04 Lab File ID: 08120010.D GC Column: CLP2 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 3	5.11	Split Peak	USP3	08/15/22 10:19

Lab Sample ID: STD3 280-583810/11 IC Client Sample ID:

Date Analyzed: 08/12/22 13:23 Lab File ID: 08120011.D GC Column: CLP2 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 3	5.11	Split Peak	USP3	08/15/22 10:20

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Instrument ID: SGC_P3 Analysis Batch Number: 583810

Lab Sample ID: STD2 280-583810/12 IC Client Sample ID:

Date Analyzed: 08/12/22 13:43 Lab File ID: 08120012.D GC Column: CLP2 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 3	5.11	Split Peak	USP3	08/15/22 10:21
PCB-1016 Peak 4	5.24	Split Peak	USP3	08/15/22 10:22
PCB-1260 Peak 3	7.88	Split Peak	USP3	08/15/22 10:22

Lab Sample ID: STD1 280-583810/13 IC Client Sample ID:

Date Analyzed: 08/12/22 14:02 Lab File ID: 08120013.D GC Column: CLP1 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 5	9.06	Split Peak	USP3	08/15/22 10:23

Lab Sample ID: STD1 280-583810/13 IC Client Sample ID:

Date Analyzed: 08/12/22 14:02 Lab File ID: 08120013.D GC Column: CLP2 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 3	5.11	Split Peak	USP3	08/15/22 10:22
PCB-1016 Peak 4	5.24	Split Peak	USP3	08/15/22 10:23
PCB-1260 Peak 3	7.88	Baseline Smoothing	USP3	08/15/22 10:24

Lab Sample ID: ICV 280-583810/14 Client Sample ID:

Date Analyzed: 08/12/22 14:22 Lab File ID: 08120014.D GC Column: CLP1 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
DCB Decachlorobiphenyl	10.42	Peak assignment corrected	USP3	08/15/22 10:15

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Instrument ID: SGC_P3 Analysis Batch Number: 583810

Lab Sample ID: ICV 280-583810/14 Client Sample ID:

Date Analyzed: 08/12/22 14:22 Lab File ID: 08120014.D GC Column: CLP2 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 3	7.88	Split Peak	USP3	08/15/22 10:25
DCB Decachlorobiphenyl	10.58	Peak assignment corrected	USP3	08/15/22 10:15

8082A

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Instrument ID: SGC_P3 Analysis Batch Number: 591125

Lab Sample ID: CCVIS 280-591125/3 Client Sample ID:

Date Analyzed: 10/25/22 10:17 Lab File ID: 10250003.D GC Column: CLP1 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 2	7.46	Split Peak	USP3	10/25/22 10:59
PCB-1260 Peak 4	8.67	Split Peak	USP3	10/25/22 10:59

Lab Sample ID: CCVIS 280-591125/3 Client Sample ID:

Date Analyzed: 10/25/22 10:17 Lab File ID: 10250003.D GC Column: CLP2 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 3	5.09	Split Peak	USP3	10/25/22 10:58

Lab Sample ID: CCV 280-591125/15 Client Sample ID:

Date Analyzed: 10/25/22 14:03 Lab File ID: 10250015.D GC Column: CLP2 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 3	5.10	Split Peak	USP3	10/25/22 16:36

Lab Sample ID: CCV 280-591125/26 Client Sample ID:

Date Analyzed: 10/25/22 17:29 Lab File ID: 10250026.D GC Column: CLP2 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 3	5.09	Split Peak	USP3	10/26/22 08:07

Lab Sample ID: CCV 280-591125/35 Client Sample ID:

Date Analyzed: 10/25/22 20:19 Lab File ID: 10250035.D GC Column: CLP1 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 4	8.67	Split Peak	USP3	10/26/22 08:01

8082A

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Instrument ID: SGC_P3 Analysis Batch Number: 591125

Lab Sample ID: CCV 280-591125/35 Client Sample ID:

Date Analyzed: 10/25/22 20:19 Lab File ID: 10250035.D GC Column: CLP2 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
DCB Decachlorobiphenyl	10.57	Split Peak	USP3	10/26/22 08:10

Lab Sample ID: LCS 280-591039/4-A Client Sample ID:

Date Analyzed: 10/25/22 20:56 Lab File ID: 10250037.D GC Column: CLP1 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 4	8.67	Split Peak	USP3	10/26/22 08:12

Lab Sample ID: LCS 280-591039/4-A Client Sample ID:

Date Analyzed: 10/25/22 20:56 Lab File ID: 10250037.D GC Column: CLP2 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 3	5.09	Split Peak	USP3	10/26/22 08:11
PCB-1260 Peak 3	7.86	Split Peak	USP3	10/26/22 08:12

Lab Sample ID: LCSD 280-591039/5-A Client Sample ID:

Date Analyzed: 10/25/22 21:15 Lab File ID: 10250038.D GC Column: CLP1 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 4	8.67	Split Peak	USP3	10/26/22 08:13

Lab Sample ID: LCSD 280-591039/5-A Client Sample ID:

Date Analyzed: 10/25/22 21:15 Lab File ID: 10250038.D GC Column: CLP2 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 3	5.09	Split Peak	USP3	10/26/22 08:13

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Instrument ID: SGC_P3 Analysis Batch Number: 591125

Lab Sample ID: 280-168095-4 Client Sample ID: BS-T-01-BIG

Date Analyzed: 10/25/22 22:49 Lab File ID: 10250043.D GC Column: CLP1 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1254		Unspecified		
PCB-1262		Unspecified		
PCB-1268		Unspecified		
PCB-1260 Peak 2	7.46	Split Peak	USP3	10/26/22 08:19
PCB-1260 Peak 4	8.67	Split Peak	USP3	10/26/22 08:19
PCB-1260 Peak 5	9.04	Split Peak	USP3	10/26/22 08:19
PCB-1254 Peak 1		Invalid Compound ID	USP3	10/26/22 08:18
PCB-1254 Peak 2		Invalid Compound ID	USP3	10/26/22 08:18
PCB-1254 Peak 3		Invalid Compound ID	USP3	10/26/22 08:18
PCB-1254 Peak 4		Invalid Compound ID	USP3	10/26/22 08:18
PCB-1254 Peak 5		Invalid Compound ID	USP3	10/26/22 08:18
PCB-1262 Peak 1		Invalid Compound ID	USP3	10/26/22 08:18
PCB-1262 Peak 2		Invalid Compound ID	USP3	10/26/22 08:18
PCB-1262 Peak 3		Invalid Compound ID	USP3	10/26/22 08:18
PCB-1262 Peak 4		Invalid Compound ID	USP3	10/26/22 08:18
PCB-1262 Peak 5		Invalid Compound ID	USP3	10/26/22 08:18
PCB-1268 Peak 1		Invalid Compound ID	USP3	10/26/22 08:18
PCB-1268 Peak 2		Invalid Compound ID	USP3	10/26/22 08:18
PCB-1268 Peak 3		Invalid Compound ID	USP3	10/26/22 08:18
PCB-1268 Peak 4		Invalid Compound ID	USP3	10/26/22 08:18
PCB-1268 Peak 5		Invalid Compound ID	USP3	10/26/22 08:18

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Instrument ID: SGC_P3 Analysis Batch Number: 591125

Lab Sample ID: 280-168095-4 Client Sample ID: BS-T-01-BIG

Date Analyzed: 10/25/22 22:49 Lab File ID: 10250043.D GC Column: CLP2 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1254		Unspecified		
PCB-1262		Unspecified		
PCB-1268		Unspecified		
PCB-1254 Peak 1		Invalid Compound ID	USP3	10/26/22 08:18
PCB-1254 Peak 2		Invalid Compound ID	USP3	10/26/22 08:18
PCB-1254 Peak 3		Invalid Compound ID	USP3	10/26/22 08:18
PCB-1254 Peak 4		Invalid Compound ID	USP3	10/26/22 08:18
PCB-1254 Peak 5		Invalid Compound ID	USP3	10/26/22 08:18
PCB-1262 Peak 1		Invalid Compound ID	USP3	10/26/22 08:18
PCB-1262 Peak 2		Invalid Compound ID	USP3	10/26/22 08:18
PCB-1262 Peak 3		Invalid Compound ID	USP3	10/26/22 08:18
PCB-1262 Peak 4		Invalid Compound ID	USP3	10/26/22 08:18
PCB-1262 Peak 5		Invalid Compound ID	USP3	10/26/22 08:18
PCB-1268 Peak 1		Invalid Compound ID	USP3	10/26/22 08:18
PCB-1268 Peak 2		Invalid Compound ID	USP3	10/26/22 08:18
PCB-1268 Peak 3		Invalid Compound ID	USP3	10/26/22 08:18
PCB-1268 Peak 4		Invalid Compound ID	USP3	10/26/22 08:18
PCB-1268 Peak 5		Invalid Compound ID	USP3	10/26/22 08:18

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Instrument ID: SGC_P3 Analysis Batch Number: 591125

Lab Sample ID: 280-168095-5 Client Sample ID: BS-T-02-SMALL

Date Analyzed: 10/25/22 23:07 Lab File ID: 10250044.D GC Column: CLP1 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016		Unspecified		
PCB-1232		Unspecified		
PCB-1242		Unspecified		
PCB-1248		Unspecified		
PCB-1254		Unspecified		
PCB-1262		Unspecified		
PCB-1268		Unspecified		
PCB-1016 Peak 1		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1016 Peak 2		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1016 Peak 3		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1016 Peak 4		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1016 Peak 5		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1232 Peak 1		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1232 Peak 2		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1232 Peak 3		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1232 Peak 4		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1232 Peak 5		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1242 Peak 1		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1242 Peak 2		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1242 Peak 3		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1242 Peak 4		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1242 Peak 5		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1248 Peak 1		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1248 Peak 2		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1248 Peak 3		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1248 Peak 4		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1248 Peak 5		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1254 Peak 1		Invalid Compound ID	USP3	10/26/22 08:21
PCB-1254 Peak 2		Invalid Compound ID	USP3	10/26/22 08:21
PCB-1254 Peak 3		Invalid Compound ID	USP3	10/26/22 08:21

8082A

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Instrument ID: SGC_P3 Analysis Batch Number: 591125

Lab Sample ID: 280-168095-5 Client Sample ID: BS-T-02-SMALL

Date Analyzed: 10/25/22 23:07 Lab File ID: 10250044.D GC Column: CLP1 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1254 Peak 4		Invalid Compound ID	USP3	10/26/22 08:21
PCB-1254 Peak 5		Invalid Compound ID	USP3	10/26/22 08:21
PCB-1262 Peak 1		Invalid Compound ID	USP3	10/26/22 08:21
PCB-1262 Peak 2		Invalid Compound ID	USP3	10/26/22 08:21
PCB-1262 Peak 3		Invalid Compound ID	USP3	10/26/22 08:21
PCB-1262 Peak 4		Invalid Compound ID	USP3	10/26/22 08:21
PCB-1262 Peak 5		Invalid Compound ID	USP3	10/26/22 08:21
PCB-1268 Peak 1		Invalid Compound ID	USP3	10/26/22 08:21
PCB-1268 Peak 2		Invalid Compound ID	USP3	10/26/22 08:21
PCB-1268 Peak 3		Invalid Compound ID	USP3	10/26/22 08:21
PCB-1268 Peak 4		Invalid Compound ID	USP3	10/26/22 08:21
PCB-1268 Peak 5		Invalid Compound ID	USP3	10/26/22 08:21

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Instrument ID: SGC_P3 Analysis Batch Number: 591125

Lab Sample ID: 280-168095-5 Client Sample ID: BS-T-02-SMALL

Date Analyzed: 10/25/22 23:07 Lab File ID: 10250044.D GC Column: CLP2 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016		Unspecified		
PCB-1232		Unspecified		
PCB-1242		Unspecified		
PCB-1248		Unspecified		
PCB-1254		Unspecified		
PCB-1262		Unspecified		
PCB-1268		Unspecified		
PCB-1016 Peak 1		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1016 Peak 2		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1016 Peak 3		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1016 Peak 4		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1016 Peak 5		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1232 Peak 1		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1232 Peak 2		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1232 Peak 3		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1232 Peak 4		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1232 Peak 5		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1242 Peak 1		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1242 Peak 2		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1242 Peak 3		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1242 Peak 4		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1242 Peak 5		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1248 Peak 1		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1248 Peak 2		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1248 Peak 3		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1248 Peak 4		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1248 Peak 5		Invalid Compound ID	USP3	10/26/22 08:20
PCB-1254 Peak 1		Invalid Compound ID	USP3	10/26/22 08:21
PCB-1254 Peak 2		Invalid Compound ID	USP3	10/26/22 08:21
PCB-1254 Peak 3		Invalid Compound ID	USP3	10/26/22 08:21

8082A

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Instrument ID: SGC_P3 Analysis Batch Number: 591125

Lab Sample ID: 280-168095-5 Client Sample ID: BS-T-02-SMALL

Date Analyzed: 10/25/22 23:07 Lab File ID: 10250044.D GC Column: CLP2 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1254 Peak 4		Invalid Compound ID	USP3	10/26/22 08:21
PCB-1254 Peak 5		Invalid Compound ID	USP3	10/26/22 08:21
PCB-1262 Peak 1		Invalid Compound ID	USP3	10/26/22 08:21
PCB-1262 Peak 2		Invalid Compound ID	USP3	10/26/22 08:21
PCB-1262 Peak 3		Invalid Compound ID	USP3	10/26/22 08:21
PCB-1262 Peak 4		Invalid Compound ID	USP3	10/26/22 08:21
PCB-1262 Peak 5		Invalid Compound ID	USP3	10/26/22 08:21
PCB-1268 Peak 1		Invalid Compound ID	USP3	10/26/22 08:21
PCB-1268 Peak 2		Invalid Compound ID	USP3	10/26/22 08:21
PCB-1268 Peak 3		Invalid Compound ID	USP3	10/26/22 08:21
PCB-1268 Peak 4		Invalid Compound ID	USP3	10/26/22 08:21
PCB-1268 Peak 5		Invalid Compound ID	USP3	10/26/22 08:21

Lab Sample ID: CCV 280-591125/47 Client Sample ID:

Date Analyzed: 10/26/22 00:02 Lab File ID: 10250047.D GC Column: CLP2 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 3	5.09	Split Peak	USP3	10/26/22 08:24

8082A

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
8081/82WDSurr_00059	04/24/23	10/24/22	Hexane, Lot Hexane_Cycl_00076	25 mL	Pest/PCBstock_00022	0.025 mL	DCB Decachlorobiphenyl	0.2 ug/mL
							Tetrachloro-m-xylene	0.2 ug/mL
.Pest/PCBstock_00022	08/31/28	Restek, Lot A0185124			(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
8082WDLCS_00032	01/26/23	07/26/22	Hexane, Lot Hexane_Cycl_00075	50 mL	AR_1660_RESss_00032	0.1 mL	PCB-1016	2 ug/mL
							PCB-1016 Peak 1	2 ug/mL
							PCB-1016 Peak 2	2 ug/mL
							PCB-1016 Peak 3	2 ug/mL
							PCB-1016 Peak 4	2 ug/mL
							PCB-1016 Peak 5	2 ug/mL
							PCB-1260	2 ug/mL
							PCB-1260 Peak 1	2 ug/mL
							PCB-1260 Peak 2	2 ug/mL
							PCB-1260 Peak 3	2 ug/mL
							PCB-1260 Peak 4	2 ug/mL
							PCB-1260 Peak 5	2 ug/mL
.AR_1660_RESss_00032	04/30/27	RESTEK, Lot A0167874			(Purchased Reagent)		PCB-1016	1000 ug/mL
							PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
AR_1248_L7_00031	06/14/23	06/14/22	Hexane, Lot cycl_00074	100 mL	AR_1248_RES_00016	100 uL	PCB-1248 Peak 1	1 ug/mL
							PCB-1248 Peak 2	1 ug/mL
							PCB-1248 Peak 3	1 ug/mL
							PCB-1248 Peak 4	1 ug/mL
							PCB-1248 Peak 5	1 ug/mL
.AR_1248_RES_00016	10/31/24	RESTEK, Lot A0139938			(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
AR_1660_ICV_00024	08/18/22	08/17/21	Hexane, Lot cycl_00063	100 mL	AR_1660_RESss_00023	25 uL	PCB-1016	250 ng/mL
							PCB-1260	250 ng/mL
					Pest/PCBstock_00011	6 uL	DCB Decachlorobiphenyl	12 ng/mL
							Tetrachloro-m-xylene	12 ng/mL
.AR_1660_RESss_00023	06/30/26	RESTEK, Lot A0159083			(Purchased Reagent)		PCB-1016	1000 ug/mL
							PCB-1260	1000 ug/mL
.Pest/PCBstock_00011	08/31/27	Restek, Lot A0172332			(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloro-m-xylene	200 ug/mL
AR_1660_L7_00040	08/18/22	08/18/21	Hexane, Lot 203464	100 mL	AR_1660_RES_00005	100 uL	PCB-1016 Peak 1	1 ug/mL
							PCB-1016 Peak 2	1 ug/mL
							PCB-1016 Peak 3	1 ug/mL
							PCB-1016 Peak 4	1 ug/mL
							PCB-1016 Peak 5	1 ug/mL
							PCB-1260 Peak 1	1 ug/mL
							PCB-1260 Peak 2	1 ug/mL
							PCB-1260 Peak 3	1 ug/mL
							PCB-1260 Peak 4	1 ug/mL
							PCB-1260 Peak 5	1 ug/mL
					Pest/PCBstock_00005	25 uL	DCB Decachlorobiphenyl	0.05 ug/mL
							Tetrachloro-m-xylene	0.05 ug/mL
.AR_1660_RES_00005	05/20/24		RESTEK, Lot A0134815		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.Pest/PCBstock_00005	10/31/26		Restek, Lot A0166555		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
AR_1660_L7_00040	08/18/22	08/18/21	Hexane, Lot 203464	100 mL	AR_1660_RES_00005	100 uL	PCB-1016	1 ug/mL
							PCB-1260	1 ug/mL
.AR_1660_RES_00005	05/20/24		RESTEK, Lot A0134815		(Purchased Reagent)		PCB-1016	1000 ug/mL
							PCB-1260	1000 ug/mL
AR_1660_L7_00042	08/17/23	08/17/22	Hexane, Lot Hexane_Cylc_00075	100 mL	AR_1660_RES_00011	100 uL	PCB-1016	1 ug/mL
							PCB-1260	1 ug/mL
					Pest/PCBstock_00031	25 uL	DCB Decachlorobiphenyl	0.05 ug/mL
							Tetrachloro-m-xylene	0.05 ug/mL
.AR_1660_RES_00011	06/30/27		RESTEK, Lot A0170270		(Purchased Reagent)		PCB-1016	1000 ug/mL
							PCB-1260	1000 ug/mL
.Pest/PCBstock_00031	11/30/27		Restek, Lot A0175404		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
AR_2154_L7_00032	05/04/23	05/05/22	Hexane, Lot cycl_00067	100 mL	AR_2154_RES_00008	100 uL	PCB-1221 Peak 1	1 ug/mL
							PCB-1221 Peak 2	1 ug/mL
							PCB-1221 Peak 3	1 ug/mL
							PCB-1254 Peak 1	1 ug/mL
							PCB-1254 Peak 2	1 ug/mL
							PCB-1254 Peak 3	1 ug/mL
							PCB-1254 Peak 4	1 ug/mL
							PCB-1254 Peak 5	1 ug/mL
.AR_2154_RES_00008	03/31/25		RESTEK, Lot A0144354		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
							PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
AR_3262_L7_00028	05/05/23	05/05/22	Hexane, Lot cycl_00067	100 mL	AR_3262_RES_00007	100 uL	PCB-1232 Peak 1	1 ug/mL
							PCB-1232 Peak 2	1 ug/mL
							PCB-1232 Peak 3	1 ug/mL
							PCB-1232 Peak 4	1 ug/mL
							PCB-1232 Peak 5	1 ug/mL
							PCB-1262 Peak 1	1 ug/mL
							PCB-1262 Peak 2	1 ug/mL
							PCB-1262 Peak 3	1 ug/mL
							PCB-1262 Peak 4	1 ug/mL
							PCB-1262 Peak 5	1 ug/mL
.AR_3262_RES_00007	06/30/25	RESTEK, Lot A0147561			(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
							PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
AR_4268_L7_00027	12/01/22	12/02/21	Hexane, Lot cycl_00	100 mL	AR_4268_RES_00006	100 uL	PCB-1242 Peak 1	1 ug/mL
							PCB-1242 Peak 2	1 ug/mL
							PCB-1242 Peak 3	1 ug/mL
							PCB-1242 Peak 4	1 ug/mL
							PCB-1242 Peak 5	1 ug/mL
							PCB-1268 Peak 1	1 ug/mL
							PCB-1268 Peak 2	1 ug/mL
							PCB-1268 Peak 3	1 ug/mL
							PCB-1268 Peak 4	1 ug/mL
							PCB-1268 Peak 5	1 ug/mL
.AR_4268_RES_00006	02/28/25	RESTEK, Lot A0143137			(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
							PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
BNB IS_00022	09/03/22	09/03/21	Hexane, Lot 211844	250 mL	BNB stock_00027	0.25 mL	1-Bromo-2-nitrobenzene	1000 ng/mL
.BNB stock_00027	09/03/21	Restek, Lot A0152442			(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
BNB IS_00023	11/30/22	08/09/22	Hexane, Lot Cycl_0075	250 mL	BNB stock_00026	0.25 mL	1-Bromo-2-nitrobenzene	1000 ng/mL
.BNB stock_00026	11/30/22	Restek, Lot A0152442			(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL

Reagent

AR_1248_RES_00016

110 Benner Circle
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Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32010 **Lot No.:** A0139938

Description : Aroclor® 1248 Standard

Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2024 **Storage:** 25°C nominal

Handling: This product contains PCBs.

C E R T I F I E D V A L U E S

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1248		1,004.8 µg/mL	+/- 5.8967	µg/mL	Gravimetric
	CAS # 12672-29-6	(Lot W-108-07)		+/- 31.8461	µg/mL	Unstressed
	Purity ----%			+/- 41.6016	µg/mL	Stressed

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

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

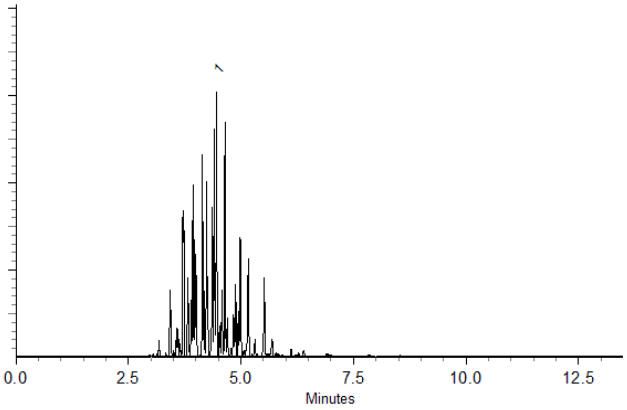
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Dawn Brownson - Mix Technician

Date Mixed: 24-Jul-2018 **Balance:** 1128360905

Justine Albertson - Operations Tech-ARM QC

Date Passed: 26-Jul-2018

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

AR_1660_RES_00005

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32039 **Lot No.:** A0134815

Description : Aroclor® 1016/1260 Mix

Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2024 **Storage:** 25°C nominal

Handling: This product contains PCBs.

C E R T I F I E D V A L U E S

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1016		1,001.3 µg/mL	+/- 5.8348	µg/mL	Gravimetric
	CAS # 12674-11-2	(Lot 164887)		+/- 31.7260	µg/mL	Unstressed
	Purity ----%			+/- 41.4488	µg/mL	Stressed
2	Aroclor 1260		1,000.0 µg/mL	+/- 5.8275	µg/mL	Gravimetric
	CAS # 11096-82-5	(Lot 155463)		+/- 31.6864	µg/mL	Unstressed
	Purity ----%			+/- 41.3971	µg/mL	Stressed

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

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

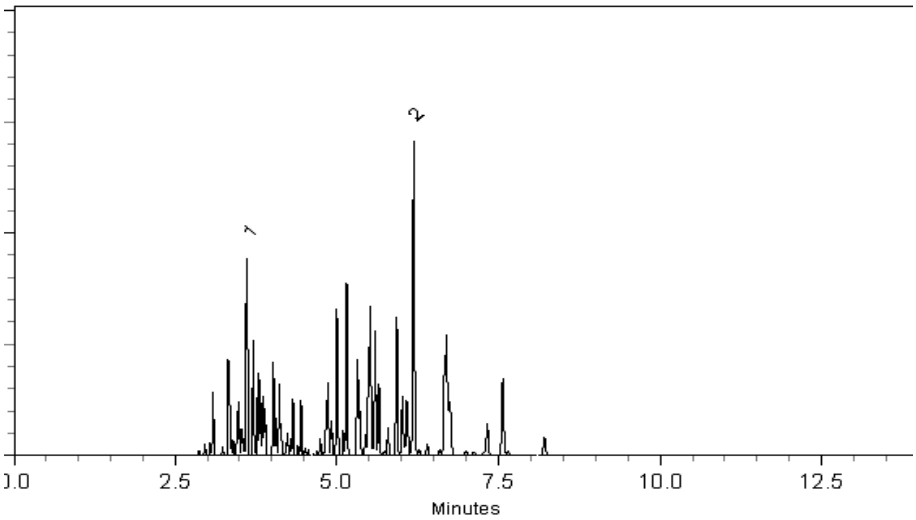
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

F. Joseph Tallon - Mix Technician

Date Mixed: 01-Feb-2018 **Balance:** B251644995

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 02-Feb-2018

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

AR_1660_RES_00011

110 Benner Circle
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32039 **Lot No.:** A0170270

Description : Aroclor® 1016/1260 Mix

Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2027 **Storage:** 25°C nominal

Handling: This product contains PCBs. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1016 **CAS #** 12674-11-2 (Lot 04) **Purity** ----%	1,008.3 µg/mL	+/- 5.8756 +/- 31.9478 +/- 41.7386	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	Aroclor 1260 **CAS #** 11096-82-5 (Lot 07) **Purity** ----%	1,008.3 µg/mL	+/- 5.8756 +/- 31.9478 +/- 41.7386	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

AR_1660_RESss_00023

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Bellefonte, PA 16823-8812
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32039.SEC **Lot No.:** A0159083

Description : Aroclor® 1016/1260 Mix

Aroclor® 1016/1260 Mix 1,000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1016 **CAS #** 12674-11-2 * **Purity** ----% (Lot NTO1016)	1,002.7 µg/mL	+/- 5.9555	µg/mL	Gravimetric
			+/- 31.7918	µg/mL	Unstressed
			+/- 41.5234	µg/mL	Stressed
2	Aroclor 1260 **CAS #** 11096-82-5.SEC **Purity** ----% (Lot NT01023)	1,003.3 µg/mL	+/- 5.9595	µg/mL	Gravimetric
			+/- 31.8129	µg/mL	Unstressed
			+/- 41.5510	µg/mL	Stressed

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

*** Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.**

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

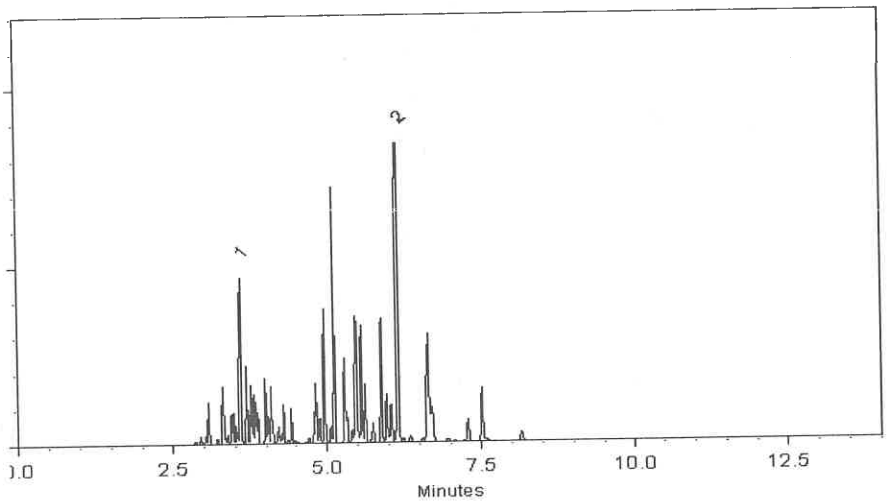
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Michael Maye

Date Mixed: 23-Mar-2020 **Balance:** 1128353505

Jennifer L Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 24-Mar-2020

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

Reagent

AR_1660_RESss_00032

RESTEK® CERTIFIED REFERENCE MATERIAL

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Certificate of Analysis

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Certificate #3222.01

ilac-MRA

ACCREDITED
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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. : 32039.SEC **Lot No.:** A0167874

Description : Aroclor® 1016/1260 Mix

Aroclor® 1016/1260 Mix 1,000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2027 **Storage:** 25°C nominal

Handling: This product contains PCBs. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1016	1,006.7 µg/mL	+/- 5.9793	µg/mL	Gravimetric
	CAS # 12674-11-2 * (Lot 04)		+/- 31.9186	µg/mL	Unstressed
	Purity ----%		+/- 41.6891	µg/mL	Stressed
2	Aroclor 1260	1,006.0 µg/mL	+/- 5.9753	µg/mL	Gravimetric
	CAS # 11096-82-5.SEC (Lot NT01023)		+/- 31.8975	µg/mL	Unstressed
	Purity ----%		+/- 41.6615	µg/mL	Stressed

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

*** Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.**

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

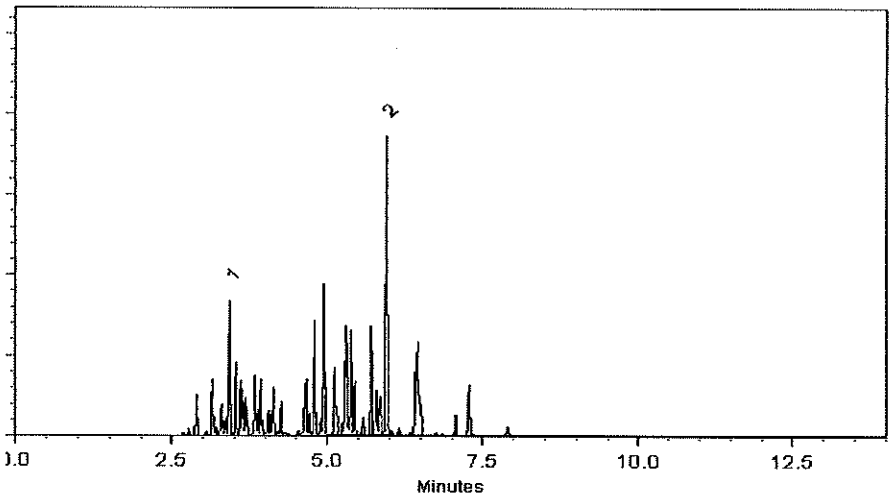
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Jeremy Warefield – Operations Tech I

Date Mixed: 06-Jan-2021 **Balance:** 1128353505

Alexis Shelow - Operations Tech I

Date Passed: 11-Jan-2021

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

AR_2154_RES_00008

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569745 **Lot No.:** A0144354

Description : PCB-1221/1254 Standard

PCB-1221/1254 Standard 1,000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2025 **Storage:** 25°C nominal

Handling: This product contains PCBs.

C E R T I F I E D V A L U E S

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1221		996.0 µg/mL	+/- 7.0625	µg/mL	Gravimetric
	CAS # 11104-28-2	(Lot 8041300)		+/- 31.8151	µg/mL	Unstressed
	Purity ----%			+/- 41.4273	µg/mL	Stressed
2	Aroclor 1254		1,004.0 µg/mL	+/- 5.9635	µg/mL	Gravimetric
	CAS # 11097-69-1	(Lot 124-191-B)		+/- 31.8340	µg/mL	Unstressed
	Purity ----%			+/- 41.5787	µg/mL	Stressed

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

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

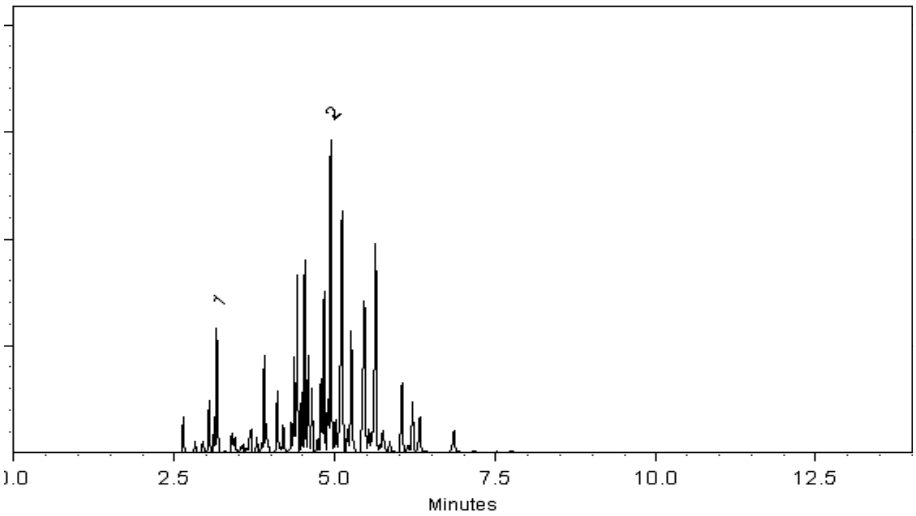
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Cydnei L. Crust - Mix Technician

Date Mixed: 20-Dec-2018 **Balance:** B442140311

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 02-Jan-2019

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

AR_3262_RES_00007

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569746 **Lot No.:** A0147561

Description : PCB-1232/1262 Standard

PCB-1232/1262 Standard 1,000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2025 **Storage:** 25°C nominal

Handling: This product contains PCBs.

C E R T I F I E D V A L U E S

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1232		1,002.0 µg/mL	+/- 5.9516	µg/mL	Gravimetric
	CAS # 11141-16-5	(Lot 15665-01)		+/- 31.7706	µg/mL	Unstressed
	Purity ----%			+/- 41.4958	µg/mL	Stressed
2	Aroclor 1262		1,002.0 µg/mL	+/- 5.9516	µg/mL	Gravimetric
	CAS # 37324-23-5	(Lot 5428400)		+/- 31.7706	µg/mL	Unstressed
	Purity ----%			+/- 41.4958	µg/mL	Stressed

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

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

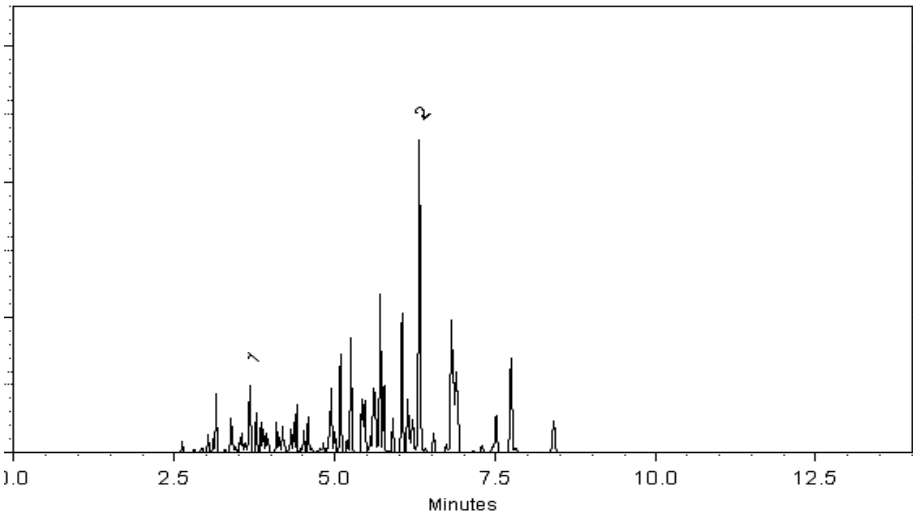
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Jessica McClenahan - Operations Technician I

Date Mixed: 28-Mar-2019 **Balance:** 1128360905

Fang-Yun Lo - QC Analyst

Date Passed: 03-Apr-2019

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

AR_4268_RES_00006

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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

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. : 569747 **Lot No.:** A0143137

Description : PCB-1242/1268 Standard

PCB-1242/1268 Standard 1,000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2025 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1242		1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS # 53469-21-9	(Lot 01141-A)		+/- 31.7072	µg/mL	Unstressed
	Purity ----%			+/- 41.4130	µg/mL	Stressed
2	Aroclor 1268		1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS # 11100-14-4	(Lot 2743900)		+/- 31.7072	µg/mL	Unstressed
	Purity ----%			+/- 41.4130	µg/mL	Stressed

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

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

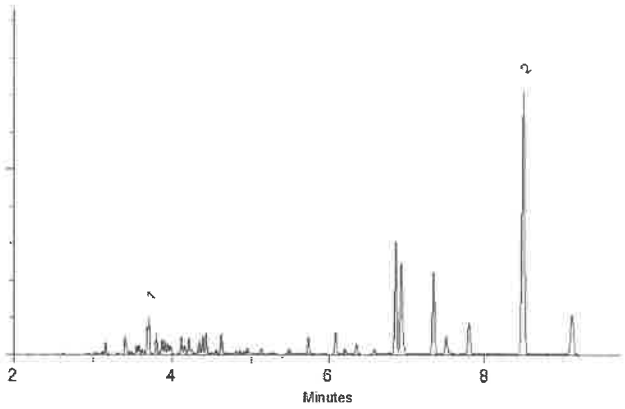
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

F. Joseph Talion - Mix Technician

Date Mixed: 12-Nov-2018 **Balance:** B251644995

Justine Albertson - Operations Tech-ARM QC

Date Passed: 19-Nov-2018

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

BNB stock_00026

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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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. : 32279 **Lot No.:** A0152442

Description : 1-Bromo-2-nitrobenzene Standard

1-Bromo-2-nitrobenzene Standard 1000 µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2022 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1-Bromo-2-nitrobenzene	1,005.0 µg/mL	+/- 5.9694 µg/mL	Gravimetric
	CAS # 577-19-5 (Lot 643872/1)		+/- 56.3626 µg/mL	Unstressed
	Purity 99%		+/- 57.6808 µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

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

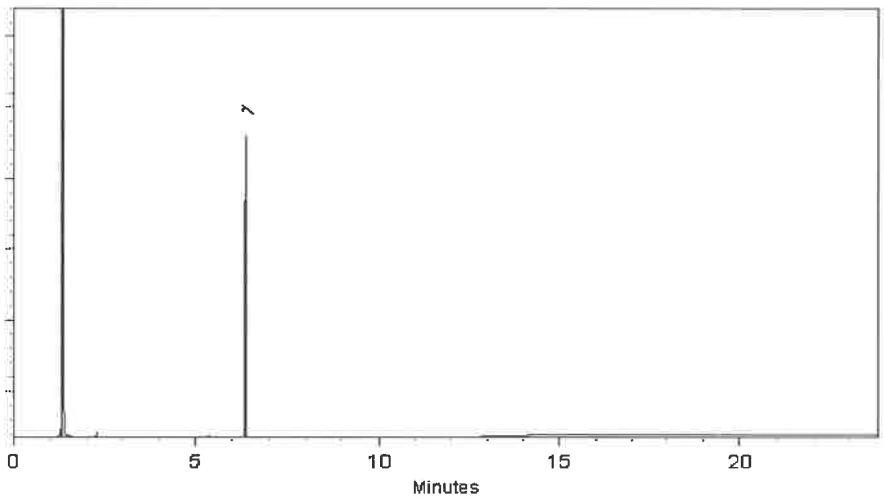
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Miranda Kline

Miranda Kline - Operations Technician I

Date Mixed: 30-Aug-2019 **Balance:** B442140311

Jennifer J Pollino

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 04-Sep-2019

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Safety Data Sheet

Revision Date: 08/22/19
www.restek.com

2 Letter ISO country code/language code: US/EN

1. IDENTIFICATION

Catalog Number / Product Name:	**32279 / 1-Bromo-2-nitrobenzene Standard**
Company:	Restek Corporation
Address:	110 Benner Circle Bellefonte, Pa. 16823
Phone#:	814-353-1300
Fax#:	814-353-1309
Emergency#:	800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)
Email:	www.restek.com
Revision Number:	10
Intended use:	For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:

GHS Classification:	Flammable Liquid Category 2 Serious Eye Damage/Eye Irritation Category 2 Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3
GHS Signal Word:	Danger
GHS Hazard:	Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.
GHS Precautions:	
Safety Precautions:	Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilation and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands and skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
First Aid Measures:	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician if you feel unwell. If eye irritation persists: Get medical advice/attention. In case of fire: Use extinguishing media in section 5 for extinction.
Storage:	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Disposal:	Dispose of contents/container according to section 13 of the SDS.

Single Exposure Target Organs: Specific target organ toxicity - Single exposure - STOT SE 3: H336 May cause drowsiness or dizziness.

Repeated Exposure Target Organs: No data available

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
Acetone	67-64-1	200-662-2	99.9
1-bromo-2-nitrobenzene	577-19-5	209-409-0	0.1

4. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately

Eyes: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

Ingestion: Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and keep exposed material from being damaged by fire. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

Fire and/or Explosion Hazards: Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a Class B fire. Vapors are heavier than air and may travel to a source of ignition and flash back

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained toxic breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Use water spray/fog for cooling. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use

	spark-proof tools and explosion-proof equipment
Storage Technical Measures and Conditions:	Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
Acetone	67-64-1	2500 ppm IDLH (10% LEL)	750 ppm STEL; 1782 mg/m3 STEL	500 ppm TWA; 1188 mg/m3 TWA	1000 ppm TWA; 2400 mg/m3 TWA

Personal Protection:

Engineering Measures:	Local exhaust ventilation is recommended when generating excessive levels of vapours from handling or thermal processing.
Respiratory Protection:	No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 3. A respirator is not normally required.
Eye Protection:	Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.
Skin Protection:	Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work
Medical Conditions Aggravated By Exposure:	Respiratory disease including asthma and bronchitis

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:	Depends upon product selection
Odor:	Strong
Physical State:	No data available
pH:	Not applicable
Vapor Pressure:	No data available
Vapor Density:	2.0 (air = 1)
Boiling Point (°C):	56.05 °C at 1013.25 hPa
Melting Point (°C):	-95.4 °C Melting Point
Flash Point (°F):	39
Flammability:	Highly Flammable
Upper Flammable/Explosive Limit, % in air:	No data available
Lower Flammable/Explosive Limit, % in air:	No data available
Autoignition Temperature (°C):	465 deg C
Decomposition Temperature (°C):	No data available
Specific Gravity:	0.7845 g/cm3 at 25 °C
Evaporation Rate:	No data available
Odor Threshold:	ND
Solubility:	Complete; 100%
Partition Coefficient: n-octanol in water:	No data available
VOC % by weight:	99.9
Molecular Weight:	58.08

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.
Materials to Avoid / Chemical Incompatiability:	Strong oxidizing agents Strong acids
Hazardous Decomposition Products:	Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation, Skin Contact, Eye Contact, Ingestion
Target Organs Potentially Affected By Exposure:	Eyes, Central nervous system stimulation, Respiratory Tract, Skin
Chemical Interactions That Change Toxicity:	None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation: Can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache.

Skin Contact:	Can cause minor skin irritation, defatting, and dermatitis.
Eye Contact:	Can cause minor irritation, tearing and reddening.
Ingestion Irritation:	May be harmful if swallowed.
Ingestion Toxicity:	Harmful if swallowed. May cause systemic poisoning.

Long-Term (Chronic) Health Effects:

Carcinogenicity:	No data.
Reproductive and Developmental Toxicity:	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Inhalation:	Upon prolonged and/or repeated exposure, can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache.
Skin Contact:	Upon prolonged or repeated contact, can cause minor skin irritation, defatting, and dermatitis.

Component Toxicological Data:
NIOSH:

Chemical Name	CAS No.	LD50/LC50
Acetone	67-64-1	Dermal LD50 Rabbit >15700 mg/kg; Inhalation LC50 Rat 50100 mg/m3 8 h; Oral LD50 Rat 5800 mg/kg

Component Carcinogenic Data:
OSHA:

Chemical Name	CAS No.
No data available	

ACGIH:

Chemical Name	CAS No.	
Acetone	67-64-1	A4 - Not Classifiable as a Human Carcinogen

NIOSH:

Chemical Name	CAS No.
No data available	

NTP:

Chemical Name	CAS No.
No data available	

IARC:

Chemical Name	CAS No.	Group No.

12. ECOLOGICAL INFORMATION

Overview:	This material is not expected to be harmful to the ecology.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	No data
Ecological Toxicity Data:	No data available

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product:	Spent or discarded material is a hazardous waste.Mixing spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous waste determination on mixtures.
Disposal Methods:	Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging:	Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:	
DOT Proper Shipping Name:	Acetone
UN Number:	UN1090
Hazard Class:	3
Packing Group:	II

International:

IATA Proper Shipping Name:	Acetone
UN Number:	UN1090
Hazard Class:	3
Packing Group:	II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available			

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
Acetone	67-64-1	X	-	-	X

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
Acetone	67-64-1	X	X	X	X
1-bromo-2-nitrobenzene	577-19-5	-	-	-	-

16. OTHER INFORMATION

Prior Version Date: 04/06/18

Other Information: Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.

References: No data available

Disclaimer: Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding products described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

Reagent

BNB stock_00027

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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. : 32279 **Lot No.:** A0152442

Description : 1-Bromo-2-nitrobenzene Standard

1-Bromo-2-nitrobenzene Standard 1000 µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2022 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1-Bromo-2-nitrobenzene **CAS #** 577-19-5 (Lot 643872/1) **Purity** 99%	1,005.0 µg/mL	+/- 5.9694 µg/mL +/- 56.3626 µg/mL +/- 57.6808 µg/mL	Gravimetric Unstressed Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

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

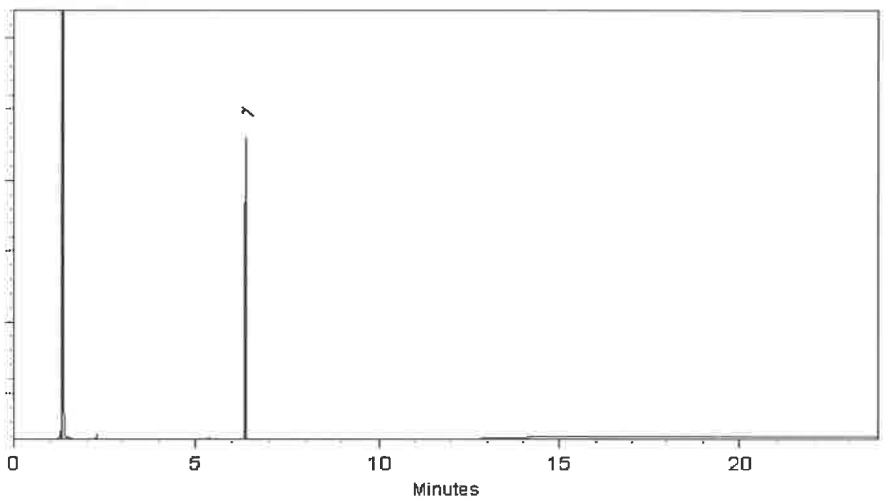
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Miranda Kline

Miranda Kline - Operations Technician I

Date Mixed: 30-Aug-2019 **Balance:** B442140311

Jennifer J Pollino

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 04-Sep-2019

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Safety Data Sheet

Revision Date: 08/22/19
www.restek.com

2 Letter ISO country code/language code: US/EN

1. IDENTIFICATION

Catalog Number / Product Name:	**32279 / 1-Bromo-2-nitrobenzene Standard**
Company:	Restek Corporation
Address:	110 Benner Circle Bellefonte, Pa. 16823
Phone#:	814-353-1300
Fax#:	814-353-1309
Emergency#:	800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)
Email:	www.restek.com
Revision Number:	10
Intended use:	For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:

GHS Classification:	Flammable Liquid Category 2 Serious Eye Damage/Eye Irritation Category 2 Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3
GHS Signal Word:	Danger
GHS Hazard:	Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.
GHS Precautions:	
Safety Precautions:	Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilation and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands and skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
First Aid Measures:	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician if you feel unwell. If eye irritation persists: Get medical advice/attention. In case of fire: Use extinguishing media in section 5 for extinction.
Storage:	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Disposal:	Dispose of contents/container according to section 13 of the SDS.

Single Exposure Target Organs: Specific target organ toxicity - Single exposure - STOT SE 3: H336 May cause drowsiness or dizziness.

Repeated Exposure Target Organs: No data available

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
Acetone	67-64-1	200-662-2	99.9
1-bromo-2-nitrobenzene	577-19-5	209-409-0	0.1

4. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately

Eyes: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

Ingestion: Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and keep exposed material from being damaged by fire. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

Fire and/or Explosion Hazards: Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a Class B fire. Vapors are heavier than air and may travel to a source of ignition and flash back

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained toxic breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Use water spray/fog for cooling. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use

	spark-proof tools and explosion-proof equipment
Storage Technical Measures and Conditions:	Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
Acetone	67-64-1	2500 ppm IDLH (10% LEL)	750 ppm STEL; 1782 mg/m3 STEL	500 ppm TWA; 1188 mg/m3 TWA	1000 ppm TWA; 2400 mg/m3 TWA

Personal Protection:

Engineering Measures:	Local exhaust ventilation is recommended when generating excessive levels of vapours from handling or thermal processing.
Respiratory Protection:	No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 3. A respirator is not normally required.
Eye Protection:	Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.
Skin Protection:	Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work
Medical Conditions Aggravated By Exposure:	Respiratory disease including asthma and bronchitis

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:	Depends upon product selection
Odor:	Strong
Physical State:	No data available
pH:	Not applicable
Vapor Pressure:	No data available
Vapor Density:	2.0 (air = 1)
Boiling Point (°C):	56.05 °C at 1013.25 hPa
Melting Point (°C):	-95.4 °C Melting Point
Flash Point (°F):	39
Flammability:	Highly Flammable
Upper Flammable/Explosive Limit, % in air:	No data available
Lower Flammable/Explosive Limit, % in air:	No data available
Autoignition Temperature (°C):	465 deg C
Decomposition Temperature (°C):	No data available
Specific Gravity:	0.7845 g/cm3 at 25 °C
Evaporation Rate:	No data available
Odor Threshold:	ND
Solubility:	Complete; 100%
Partition Coefficient: n-octanol in water:	No data available
VOC % by weight:	99.9
Molecular Weight:	58.08

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.
Materials to Avoid / Chemical Incompatiability:	Strong oxidizing agents Strong acids
Hazardous Decomposition Products:	Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation, Skin Contact, Eye Contact, Ingestion
Target Organs Potentially Affected By Exposure:	Eyes, Central nervous system stimulation, Respiratory Tract, Skin
Chemical Interactions That Change Toxicity:	None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation: Can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache.

Skin Contact:	Can cause minor skin irritation, defatting, and dermatitis.
Eye Contact:	Can cause minor irritation, tearing and reddening.
Ingestion Irritation:	May be harmful if swallowed.
Ingestion Toxicity:	Harmful if swallowed. May cause systemic poisoning.

Long-Term (Chronic) Health Effects:

Carcinogenicity:	No data.
Reproductive and Developmental Toxicity:	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Inhalation:	Upon prolonged and/or repeated exposure, can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache.
Skin Contact:	Upon prolonged or repeated contact, can cause minor skin irritation, defatting, and dermatitis.

Component Toxicological Data:

NIOSH:

Chemical Name	CAS No.	LD50/LC50
Acetone	67-64-1	Dermal LD50 Rabbit >15700 mg/kg; Inhalation LC50 Rat 50100 mg/m3 8 h; Oral LD50 Rat 5800 mg/kg

Component Carcinogenic Data:

OSHA:

Chemical Name	CAS No.
No data available	

ACGIH:

Chemical Name	CAS No.	
Acetone	67-64-1	A4 - Not Classifiable as a Human Carcinogen

NIOSH:

Chemical Name	CAS No.
No data available	

NTP:

Chemical Name	CAS No.
No data available	

IARC:

Chemical Name	CAS No.	Group No.

12. ECOLOGICAL INFORMATION

Overview:	This material is not expected to be harmful to the ecology.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	No data
Ecological Toxicity Data:	No data available

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product:	Spent or discarded material is a hazardous waste.Mixing spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous waste determination on mixtures.
Disposal Methods:	Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging:	Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:	
DOT Proper Shipping Name:	Acetone
UN Number:	UN1090
Hazard Class:	3
Packing Group:	II

International:

IATA Proper Shipping Name:	Acetone
UN Number:	UN1090
Hazard Class:	3
Packing Group:	II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available			

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
Acetone	67-64-1	X	-	-	X

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
Acetone	67-64-1	X	X	X	X
1-bromo-2-nitrobenzene	577-19-5	-	-	-	-

16. OTHER INFORMATION

Prior Version Date: 04/06/18

Other Information: Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.

References: No data available

Disclaimer: Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding products described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

Reagent

Pest/PCBstock_00005

Rec 1/22/21 AC 1 vials

CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis

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. : 32000 **Lot No.:** A0166555

Description : Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2027 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene		200.2 µg/mL	+/- 1.1807	µg/mL	Gravimetric
	CAS # 877-09-8	(Lot 0052481)		+/- 6.3448	µg/mL	Unstressed
	Purity 98%			+/- 8.2879	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)		200.1 µg/mL	+/- 1.1804	µg/mL	Gravimetric
	CAS # 2051-24-3	(Lot ER071509-01)		+/- 6.3431	µg/mL	Unstressed
	Purity 99%			+/- 8.2856	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

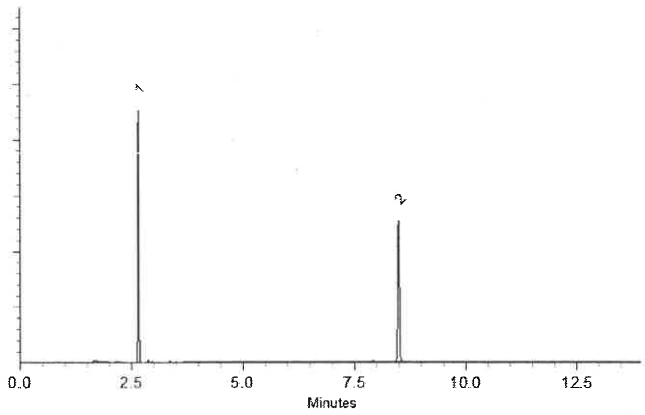
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Katelyn McGinnl - Operations Tech I

Date Mixed: 19-Nov-2020 **Balance:** B442140311

Justine Albertson - Operations Tech-ARM QC

Date Passed: 24-Nov-2020

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

Reagent

Pest/PCBstock_00011

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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. : 32000 **Lot No.:** A0172332

Description : Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2027 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene **CAS #** 877-09-8 (Lot 0052481) **Purity** 98%	200.7 µg/mL	+/- 1.1840 +/- 6.3622 +/- 8.3106	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	Decachlorobiphenyl (BZ# 209) **CAS #** 2051-24-3 (Lot 30679) **Purity** 99%	200.2 µg/mL	+/- 1.1810 +/- 6.3463 +/- 8.2897	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

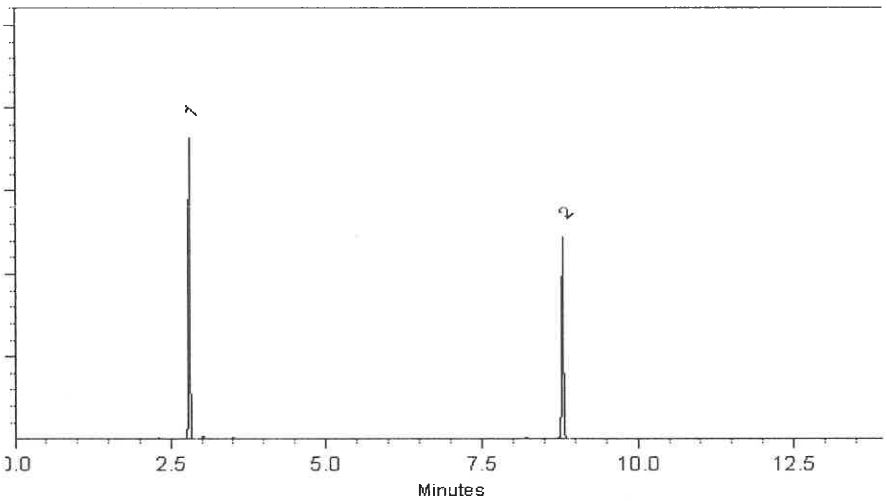
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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

Sam Moodler - Operations Tech I

Date Mixed: 12-May-2021 **Balance:** B707717271

Alexis Shelow - Operations Tech I

Date Passed: 14-May-2021

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

Pest/PCBstock_00022

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

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CERTIFIED REFERENCE MATERIAL

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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. : 32000 **Lot No.:** A0185124

Description : Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2,4,5,6-Tetrachloro-m-xylene **CAS #** 877-09-8 (Lot RP220407) **Purity** 99%	200.8 µg/mL	+/- 1.1845	µg/mL	Gravimetric
			+/- 6.3653	µg/mL	Unstressed
			+/- 8.3146	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209) **CAS #** 2051-24-3 (Lot 30679) **Purity** 99%	200.8 µg/mL	+/- 1.1845	µg/mL	Gravimetric
			+/- 6.3653	µg/mL	Unstressed
			+/- 8.3146	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Reagent

Pest/PCBstock_00031

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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. : 32000 **Lot No.:** A0175404

Description : Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2,4,5,6-Tetrachloro-m-xylene **CAS #** 877-09-8 (Lot 0052481) **Purity** 98%	200.3 µg/mL	+/- 1.1817 µg/mL +/- 6.3498 µg/mL +/- 8.2944 µg/mL	Gravimetric Unstressed Stressed
2	Decachlorobiphenyl (BZ# 209) **CAS #** 2051-24-3 (Lot 30638) **Purity** 99%	200.4 µg/mL	+/- 1.1822 µg/mL +/- 6.3526 µg/mL +/- 8.2980 µg/mL	Gravimetric Unstressed Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Method 8082A

Polychlorinated Biphenyls (PCBs) (GC) by Method 8082A

FORM II
PCBS SURROGATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Matrix: Waste Level: Low

GC Column (1): CLP1 ID: 0.32(mm)

Client Sample ID	Lab Sample ID	TCX1	#	DCBP1	#
BS-T-01-BIG	280-168095-4	72	D	133 S1+	D
BS-T-02-SMALL	280-168095-5	64	D	135 S1+	D
	MB 280-591039/1-A	101		115	
	LCS 280-591039/4-A	102		112	
	LCSD 280-591039/5-A	103		109	

	QC LIMITS
TCX = Tetrachloro-m-xylene	53-128
DCBP = DCB Decachlorobiphenyl	59-130

Column to be used to flag recovery values

FORM II 8082A

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Matrix: Waste Level: Low Lab File ID: 10250037.D

Lab ID: LCS 280-591039/4-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
PCB-1016	2000	2090	104	54-132	
PCB-1260	2000	2290	115	62-129	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
PCBS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Matrix: Waste Level: Low Lab File ID: 10250038.D

Lab ID: LCSD 280-591039/5-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
PCB-1016	2000	2190	110	5	36	54-132	
PCB-1260	2000	2420	121	5	44	62-129	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Lab Sample ID: MB 280-591039/1-A

Matrix: Waste Date Extracted: 10/24/2022 16:37

Lab File ID:(1) 10250036.D Lab File ID:(2) 10250036.D

Date Analyzed:(1) 10/25/2022 20:37 Date Analyzed:(2) 10/25/2022 20:37

Instrument ID:(1) SGC_P3 Instrument ID:(2) SGC_P3

GC Column:(1) CLP1 ID: 0.32(mm) GC Column:(2) CLP2 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 280-591039/4-A	10/25/2022 20:56	10/25/2022 20:56
	LCSD 280-591039/5-A	10/25/2022 21:15	10/25/2022 21:15
BS-T-01-BIG	280-168095-4	10/25/2022 22:49	10/25/2022 22:49
BS-T-02-SMALL	280-168095-5	10/25/2022 23:07	

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Sample No.: ICIS 280-583810/9 Date Analyzed: 08/12/2022 12:44

Instrument ID: SGC_P3 GC Column: CLP1 ID: 0.32(mm)

Lab File ID (Standard): 08120009.D Heated Purge: (Y/N) N

Calibration ID: 69968

		BNB					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		134424573	3.21				
UPPER LIMIT		268849146	3.71				
LOWER LIMIT		67212287	2.71				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-583810/14		134249875	3.21				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Sample No.: ICIS 280-583810/9 Date Analyzed: 08/12/2022 12:44

Instrument ID: SGC_P3 GC Column: CLP2 ID: 0.32(mm)

Lab File ID (Standard): 08120009.D Heated Purge: (Y/N) N

Calibration ID: 69969

		BNB					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		115993086	2.95				
UPPER LIMIT		231986172	3.45				
LOWER LIMIT		57996543	2.45				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-583810/14		115978676	2.96				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Sample No.: CCVIS 280-591125/3 Date Analyzed: 10/25/2022 10:17

Instrument ID: SGC_P3 GC Column: CLP1 ID: 0.32(mm)

Lab File ID (Standard): 10250003.D Heated Purge: (Y/N) N

Calibration ID: 72222

		BNB					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		146266525	3.19				
UPPER LIMIT		292533050	3.69				
LOWER LIMIT		73133263	2.69				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 280-591125/15		141011769	3.20				
CCV 280-591125/26		151169800	3.20				
CCV 280-591125/35		146743911	3.20				
MB 280-591039/1-A		126934454	3.19				
LCS 280-591039/4-A		130084165	3.19				
LCSD 280-591039/5-A		127790216	3.20				
280-168095-4	BS-T-01-BIG	105838774	3.19				
280-168095-5	BS-T-02-SMALL	100900694	3.19				
CCV 280-591125/47		146354953	3.20				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Sample No.: CCVIS 280-591125/3 Date Analyzed: 10/25/2022 10:17

Instrument ID: SGC_P3 GC Column: CLP2 ID: 0.32(mm)

Lab File ID (Standard): 10250003.D Heated Purge: (Y/N) N

Calibration ID: 72223

		BNB					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		137350370	2.95				
UPPER LIMIT		274700740	3.45				
LOWER LIMIT		68675185	2.45				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 280-591125/15		131613129	2.95				
CCV 280-591125/26		144101883	2.95				
CCV 280-591125/35		140753699	2.95				
MB 280-591039/1-A		120754256	2.95				
LCS 280-591039/4-A		123905123	2.95				
LCSD 280-591039/5-A		121385269	2.95				
280-168095-4	BS-T-01-BIG	108554218	2.95				
280-168095-5	BS-T-02-SMALL	105025319	2.95				
CCV 280-591125/47		141415645	2.95				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Client Sample ID: Lab Sample ID: LCS 280-591039/4-A

Instrument ID (1): SGC_P3 Instrument ID (2): SGC_P3

Date Analyzed (1): 10/25/2022 20:56 Date Analyzed (2): 10/25/2022 20:56

GC Column (1): CLP1 ID: 0.32(mm) GC Column (2): CLP2 ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	4.33	4.31	4.36	2170	2090	1.2
		2	4.68	4.66	4.71	2130		
		3	5.13	5.12	5.17	2070		
		4	5.29	5.26	5.31	2080		
		5	5.72	5.70	5.75	2000		
	2	1	4.28	4.26	4.31	2270	2110	
		2	4.65	4.63	4.68	2150		
		3	5.09	5.07	5.12	1990		
		4	5.23	5.20	5.25	2040		
		5	5.71	5.69	5.74	2110		
PCB-1260	1	1	7.12	7.09	7.14	2440	2290	5.4
		2	7.46	7.43	7.48	2270		
		3	7.81	7.78	7.83	2220		
		4	8.67	8.64	8.69	2260		
		5	9.04	9.02	9.07	2270		
	2	1	7.16	7.13	7.18	2210	2170	
		2	7.42	7.39	7.44	2220		
		3	7.86	7.84	7.89	2020		
		4	8.69	8.67	8.72	2220		
		5	9.18	9.15	9.20	2180		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 280-591039/5-A

Instrument ID (1): SGC_P3 Instrument ID (2): SGC_P3

Date Analyzed (1): 10/25/2022 21:15 Date Analyzed (2): 10/25/2022 21:15

GC Column (1): CLP1 ID: 0.32(mm) GC Column (2): CLP2 ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	4.34	4.31	4.36	2280	2190	1.6
		2	4.68	4.66	4.71	2230		
		3	5.13	5.12	5.17	2170		
		4	5.29	5.26	5.31	2180		
		5	5.72	5.70	5.75	2100		
	2	1	4.28	4.26	4.31	2400	2230	
		2	4.65	4.63	4.68	2270		
		3	5.09	5.07	5.12	2110		
		4	5.23	5.20	5.25	2140		
		5	5.71	5.69	5.74	2210		
PCB-1260	1	1	7.12	7.09	7.14	2580	2420	4.2
		2	7.46	7.43	7.48	2400		
		3	7.81	7.78	7.83	2340		
		4	8.67	8.64	8.69	2380		
		5	9.04	9.02	9.07	2390		
	2	1	7.16	7.13	7.18	2500	2320	
		2	7.42	7.39	7.44	2310		
		3	7.86	7.84	7.89	2170		
		4	8.69	8.67	8.72	2340		
		5	9.18	9.15	9.20	2280		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver
Job No.: 280-168095-2
SDG No.:
Client Sample ID: BS-T-01-BIG
Lab Sample ID: 280-168095-4
Matrix: Waste
Lab File ID: 10250043.D
Analysis Method: 8082A
Date Collected: 10/19/2022 13:40
Extraction Method: 3580A
Date Extracted: 10/24/2022 16:37
Sample wt/vol: 1.0(g)
Date Analyzed: 10/25/2022 22:49
Con. Extract Vol.: 10(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: CLP1 ID: 0.32(mm)
% Moisture: % Solids:
GPC Cleanup:(Y/N) N
Cleanup Factor:
Analysis Batch No.: 591125
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
11104-28-2	PCB-1221	2300	U	14000	2300
12674-11-2	PCB-1016	1500	U	9900	1500
11141-16-5	PCB-1232	1500	U	9900	1500
53469-21-9	PCB-1242	2700	U	9900	2700
12672-29-6	PCB-1248	1700	U	9900	1700
11097-69-1	PCB-1254	1700	U	9900	1700
37324-23-5	PCB-1262	1100	U	9900	1100
11100-14-4	PCB-1268	1200	U	9900	1200

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	72	D	53-128
2051-24-3	DCB Decachlorobiphenyl	133	S1+ D	59-130

Eurofins Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250043.D				
Lims ID:	280-168095-A-1-A				
Client ID:	BS-T-01-BIG				
Sample Type:	Client				
Inject. Date:	25-Oct-2022 22:49:05	ALS Bottle#:	43	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Sample Info:	280-168095-A-1-A				
Misc. Info.:	280-0115461-043				
Operator ID:	SMP	Instrument ID:	SGC_P3		

Method:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\PCB_P3.m		
Limit Group:	GCSV - 8082A - IS		
Last Update:	26-Oct-2022 08:40:03	Calib Date:	25-Oct-2022 11:31:41
Integrator:	Falcon		
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D		

Column 1 :	CLP1 Pesticides Column 1 (0.32 mm)	Det: GC ECD1A
Column 2 :	CLP2 Pesticides Column 2 (0.32 mm)	Det: GC ECD2B
Process Host:	CTX1658	

First Level Reviewer: USP3 Date: 26-Oct-2022 08:20:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene						
1	3.194	3.194	0.000	105838774	100.0	
2	2.947	2.946	0.001	108554218	100.0	
					RPD = 0.00	
$ 14 Tetrachloro-m-xylene						
1	3.978	3.977	0.001	2097189	1.45	
2	3.837	3.833	0.004	2094368	1.31	
					RPD = 10.28	
3 PCB-1221						
1		4.151			ND	
1		4.294				
1		4.334				
2		4.100				
2		4.227				
2		4.280				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags
7 PCB-1232						
1		4.333			ND	
1		4.680				
1		5.130				
1		5.286				
1		5.716				
2		4.279				
2		4.652				
2		5.076				
2		5.226				
2		6.172				
10 PCB-1242						
1		4.334			ND	
1		4.677				
1		5.127				
1		5.287				
1		6.184				
2		4.280				
2		4.653				
2		5.093				
2		5.223				
2		5.840				
1 PCB-1016						
1		4.337			ND	
1		4.680				
1		5.147				
1		5.287				
1		5.720				
2		4.280				
2		4.653				
2		5.093				
2		5.226				
2		5.710				
4 PCB-1248						
1		4.678			ND	
1		5.128				
1		5.718				
1		6.185				
1		6.898				
2		5.078				
2		5.708				
2		5.841				
2		6.124				
2		6.431				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags
9 PCB-1254						MU
1		6.188			ND	
1		6.431				
1		6.901				
1		7.461				
1		7.808				
2		6.167				
2		6.384				
2		6.920				
2		7.197				
2		7.864				
5 PCB-1262						MU
1		7.116			ND	
1		7.456				
1		7.950				
1		8.666				
1		9.086				
2		6.966				
2		7.982				
2		8.359				
2		8.692				
2		9.169				
12 PCB-1260						M
1	7.114	7.117	-0.003	1027055	12.9	
1	7.458	7.457	0.001	1372570	3.71	M
1	7.808	7.807	0.001	1557419	9.45	
1	8.668	8.667	0.001	2122202	9.39	M
1	9.041	9.040	0.001	1076794	9.89	M
		Average of Peak Amounts =			9.07	
2	7.160	7.156	0.004	719190	-3.57	
2	7.417	7.416	0.001	928702	1.42	
2	7.867	7.863	0.004	1152096	6.30	
2	8.694	8.690	0.004	2241677	6.90	
2	9.174	9.173	0.001	1644651	5.54	
		Average of Peak Amounts =			3.32	
					RPD = 92.88	
13 PCB-1268						U
1		9.084			ND	
1		9.137				
1		9.394				
1		9.864				
1		10.198				
2		9.167				
2		9.227				
2		9.567				
2		9.937				
2		10.307				
$ 15 DCB Decachlorobiphenyl						
1	10.398	10.400	-0.002	2608870	2.66	
2	10.567	10.566	0.001	2741163	2.73	
					RPD = 2.48	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags

S 8 Polychlorinated biphenyls, Total

1	9.07
2	3.32
	RPD = 92.88

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

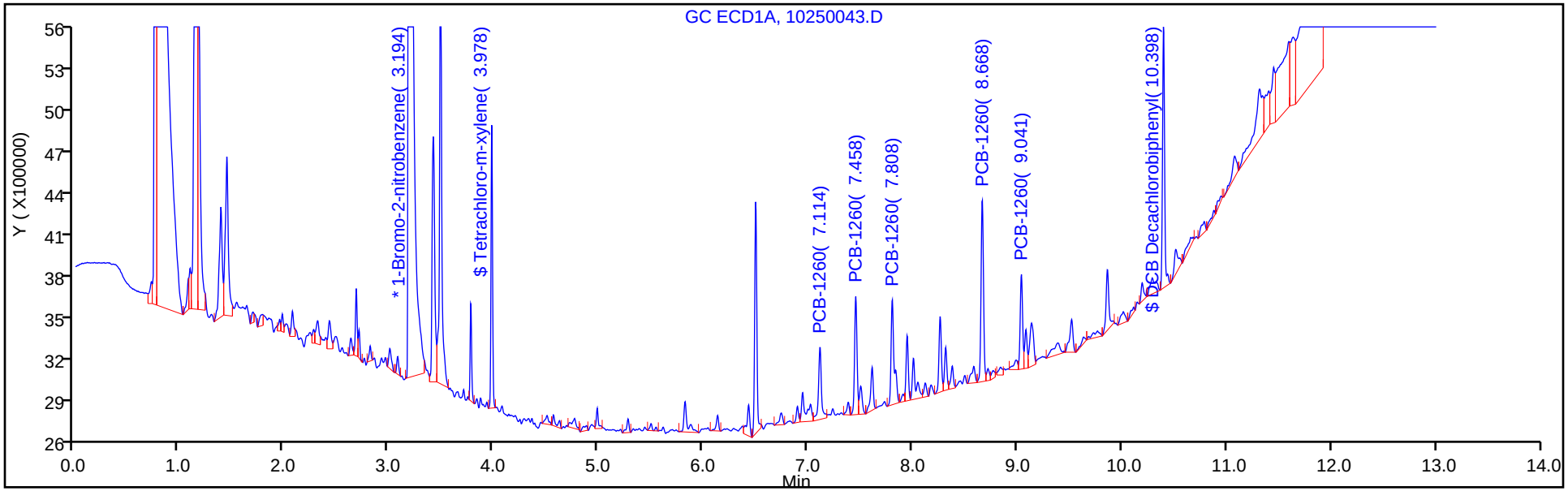
BNB IS_00023 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 26-Oct-2022 08:40:26 Chrom Revision: 2.3 28-Sep-2022 12:57:42

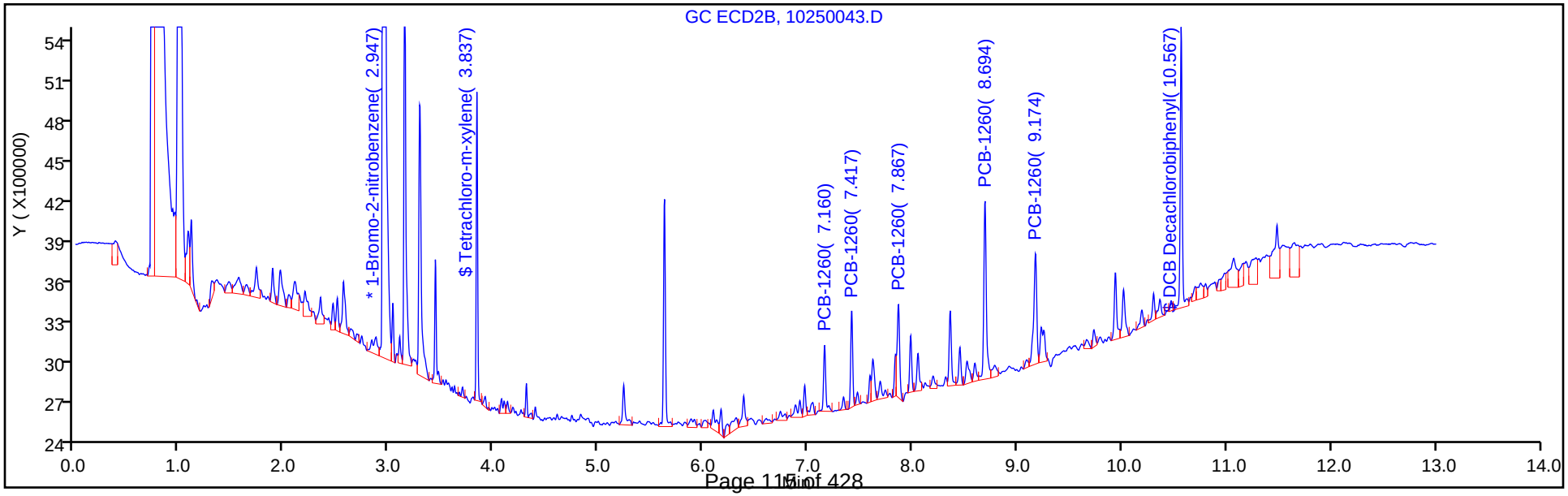
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250043.D				
Injection Date:	25-Oct-2022 22:49:05	Instrument ID:	SGC_P3	Operator ID:	SMP
Lims ID:	280-168095-A-1-A	Lab Sample ID:	280-168095-1	Worklist Smp#:	43
Client ID:	BS-T-01-BIG				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	43
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250043.D				
Lims ID:	280-168095-A-1-A				
Client ID:	BS-T-01-BIG				
Sample Type:	Client				
Inject. Date:	25-Oct-2022 22:49:05	ALS Bottle#:	43	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Sample Info:	280-168095-A-1-A				
Misc. Info.:	280-0115461-043				
Operator ID:	SMP	Instrument ID:	SGC_P3		

Method:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\PCB_P3.m		
Limit Group:	GCSV - 8082A - IS		
Last Update:	26-Oct-2022 08:40:03	Calib Date:	25-Oct-2022 11:31:41
Integrator:	Falcon		
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D		

Column 1 :	CLP1 Pesticides Column 1 (0.32 mm)	Det: GC ECD1A
Column 2 :	CLP2 Pesticides Column 2 (0.32 mm)	Det: GC ECD2B
Process Host:	CTX1658	

First Level Reviewer: USP3 Date: 26-Oct-2022 08:20:26

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 14 Tetrachloro-m-xylene	20.0	1.45	72.39
$ 15 DCB Decachlorobiphenyl	20.0	2.66	133.11

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 14 Tetrachloro-m-xylene	20.0	1.31	65.32
$ 15 DCB Decachlorobiphenyl	20.0	2.73	136.45

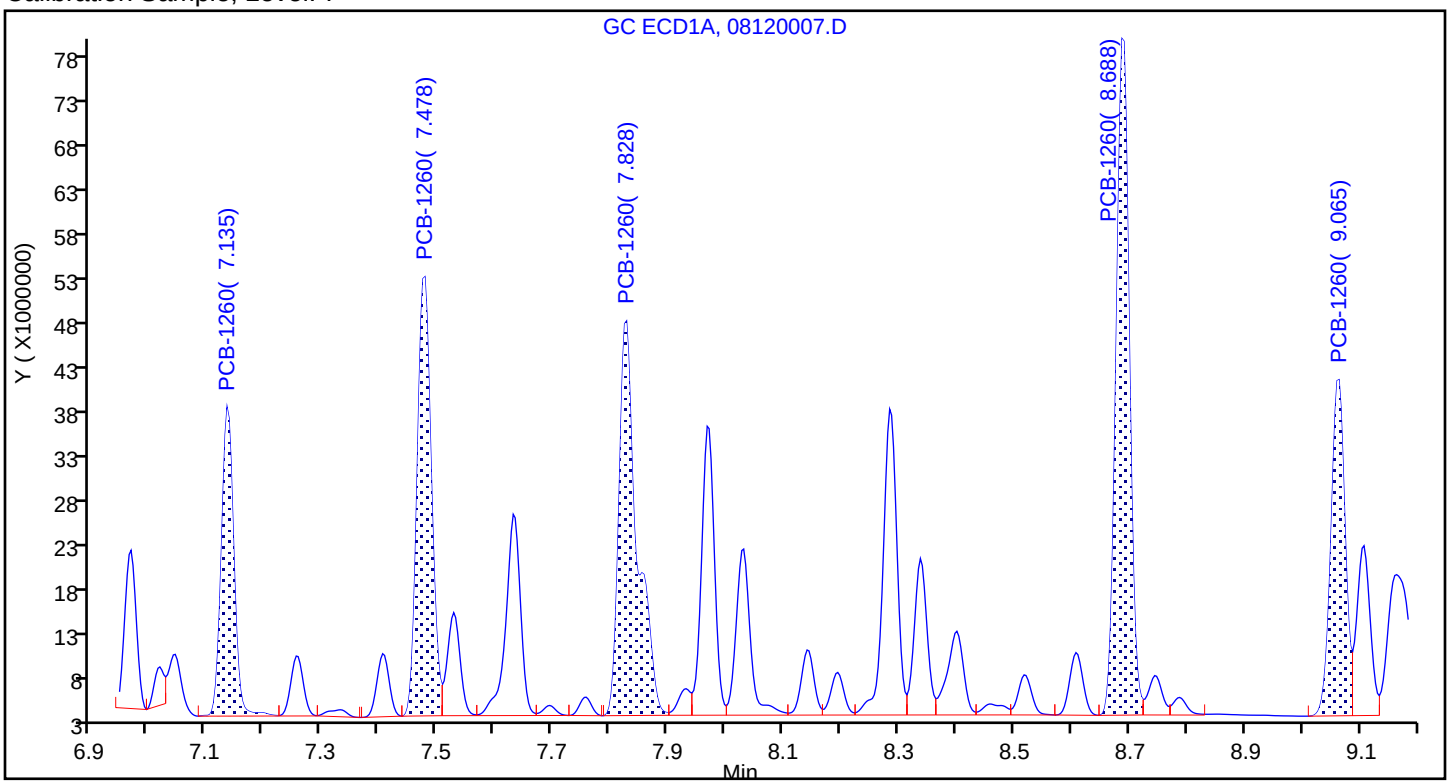
Report Date: 26-Oct-2022 08:40:26 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Denver

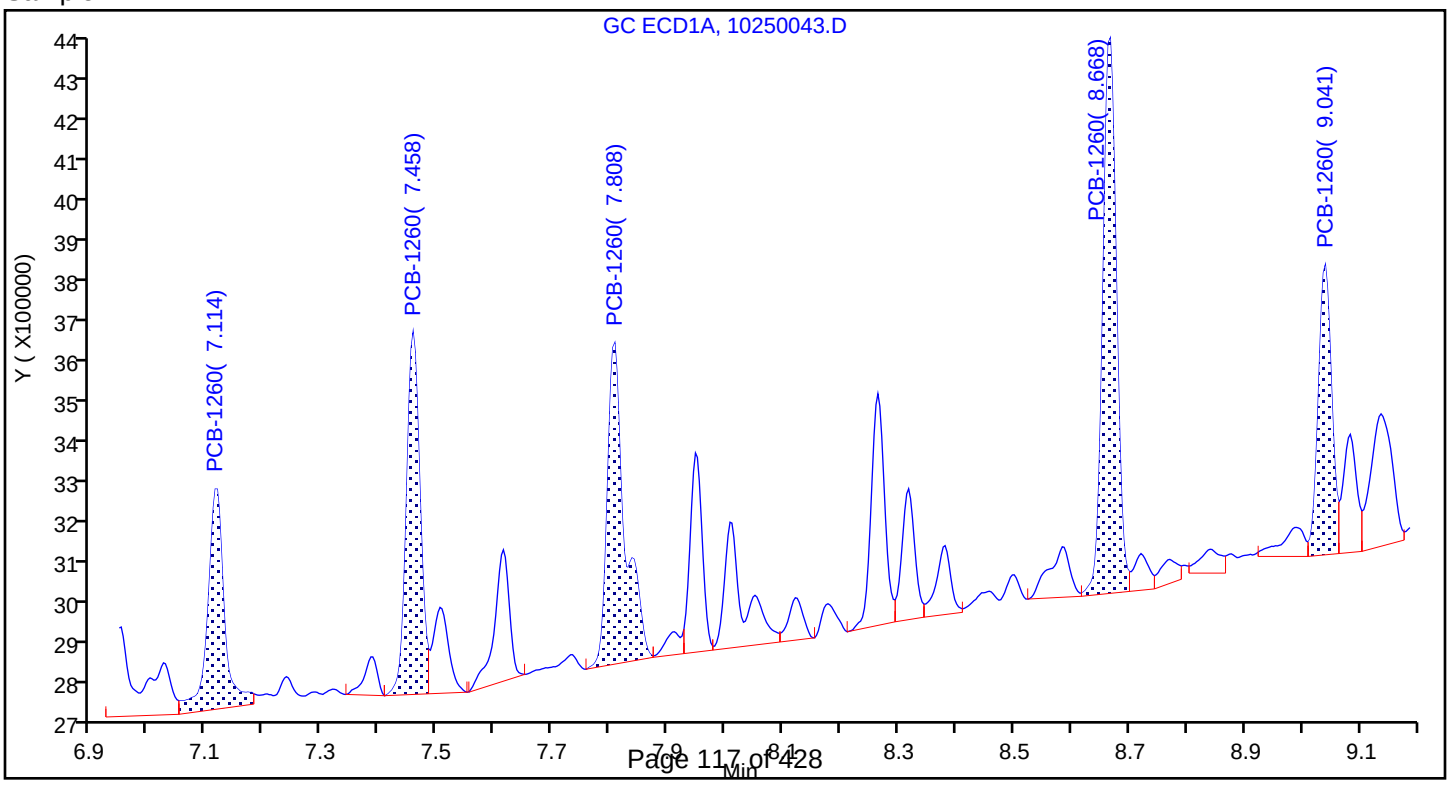
Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250043.D				
Injection Date:	25-Oct-2022 22:49:05	Instrument ID:	SGC_P3		
Lims ID:	280-168095-A-1-A	Lab Sample ID:	280-168095-1		
Client ID:	BS-T-01-BIG				
Operator ID:	SMP	ALS Bottle#:	43	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		
Column:	CLP1 Pesticides Column 1 (0.32 mm)	Detector	GC ECD1A		

12 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 7



Sample

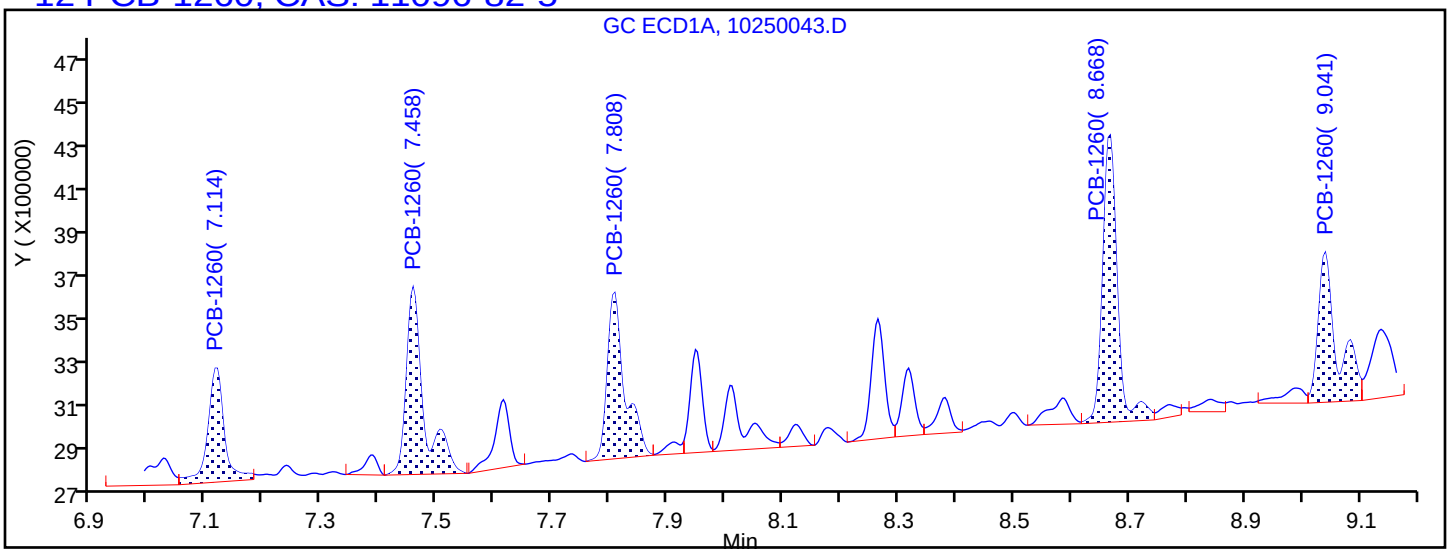


Report Date: 26-Oct-2022 08:40:26 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Denver

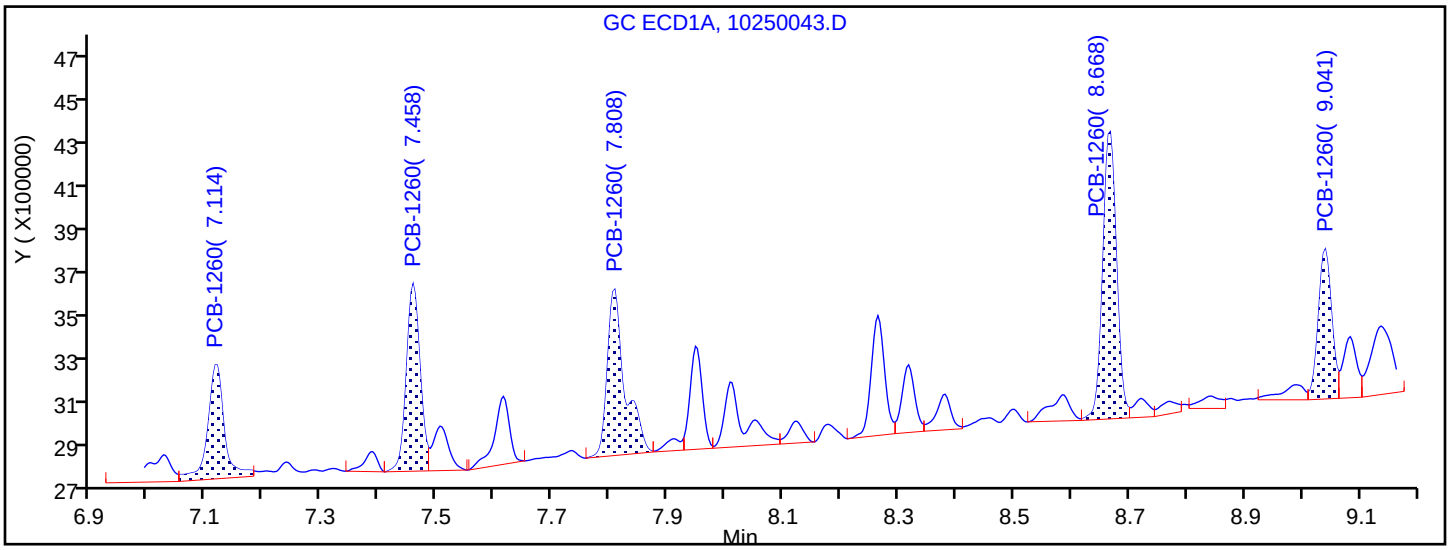
Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250043.D				
Injection Date:	25-Oct-2022 22:49:05	Instrument ID:	SGC_P3		
Lims ID:	280-168095-A-1-A	Lab Sample ID:	280-168095-1		
Client ID:	BS-T-01-BIG				
Operator ID:	SMP	ALS Bottle#:	43	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		
Column:	CLP1 Pesticides Column 1 (0.32 mm)	Detector	GC ECD1A		

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

7.114	Response = 1027055
7.458	Response = 1754728
7.808	Response = 1557419
8.668	Response = 2277879
9.041	Response = 1527165



Manual Integration Results

7.114	Response = 1027055	
7.458	Response = 1372570	M
7.808	Response = 1557419	
8.668	Response = 2122202	M
9.041	Response = 1076794	M

Reviewer: USP3, 26-Oct-2022 08:19:36

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver
Job No.: 280-168095-2
SDG No.:
Client Sample ID: BS-T-01-BIG
Lab Sample ID: 280-168095-4
Matrix: Waste
Lab File ID: 10250043.D
Analysis Method: 8082A
Date Collected: 10/19/2022 13:40
Extraction Method: 3580A
Date Extracted: 10/24/2022 16:37
Sample wt/vol: 1.0(g)
Date Analyzed: 10/25/2022 22:49
Con. Extract Vol.: 10(mL)
Dilution Factor: 10
Injection Volume: 1(uL)
GC Column: CLP2 ID: 0.32(mm)
% Moisture: % Solids:
GPC Cleanup:(Y/N) N
Cleanup Factor:
Analysis Batch No.: 591125
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
11096-82-5	PCB-1260	800	U	9900	800
1336-36-3	Polychlorinated biphenyls, Total	800	U	9900	800

Eurofins Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250043.D				
Lims ID:	280-168095-A-1-A				
Client ID:	BS-T-01-BIG				
Sample Type:	Client				
Inject. Date:	25-Oct-2022 22:49:05	ALS Bottle#:	43	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Sample Info:	280-168095-A-1-A				
Misc. Info.:	280-0115461-043				
Operator ID:	SMP	Instrument ID:	SGC_P3		

Method:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\PCB_P3.m		
Limit Group:	GCSV - 8082A - IS		
Last Update:	26-Oct-2022 08:40:03	Calib Date:	25-Oct-2022 11:31:41
Integrator:	Falcon		
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D		

Column 1 :	CLP1 Pesticides Column 1 (0.32 mm)	Det: GC ECD1A
Column 2 :	CLP2 Pesticides Column 2 (0.32 mm)	Det: GC ECD2B
Process Host:	CTX1658	

First Level Reviewer: USP3 Date: 26-Oct-2022 08:20:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene						
1	3.194	3.194	0.000	105838774	100.0	
2	2.947	2.946	0.001	108554218	100.0	
					RPD = 0.00	
$ 14 Tetrachloro-m-xylene						
1	3.978	3.977	0.001	2097189	1.45	
2	3.837	3.833	0.004	2094368	1.31	
					RPD = 10.28	
3 PCB-1221						
1		4.151			ND	
1		4.294				
1		4.334				
2		4.100				
2		4.227				
2		4.280				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags
7 PCB-1232						
1		4.333			ND	
1		4.680				
1		5.130				
1		5.286				
1		5.716				
2		4.279				
2		4.652				
2		5.076				
2		5.226				
2		6.172				
10 PCB-1242						
1		4.334			ND	
1		4.677				
1		5.127				
1		5.287				
1		6.184				
2		4.280				
2		4.653				
2		5.093				
2		5.223				
2		5.840				
1 PCB-1016						
1		4.337			ND	
1		4.680				
1		5.147				
1		5.287				
1		5.720				
2		4.280				
2		4.653				
2		5.093				
2		5.226				
2		5.710				
4 PCB-1248						
1		4.678			ND	
1		5.128				
1		5.718				
1		6.185				
1		6.898				
2		5.078				
2		5.708				
2		5.841				
2		6.124				
2		6.431				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags
9 PCB-1254						MU
1		6.188			ND	
1		6.431				
1		6.901				
1		7.461				
1		7.808				
2		6.167				
2		6.384				
2		6.920				
2		7.197				
2		7.864				
5 PCB-1262						MU
1		7.116			ND	
1		7.456				
1		7.950				
1		8.666				
1		9.086				
2		6.966				
2		7.982				
2		8.359				
2		8.692				
2		9.169				
12 PCB-1260						M
1	7.114	7.117	-0.003	1027055	12.9	
1	7.458	7.457	0.001	1372570	3.71	M
1	7.808	7.807	0.001	1557419	9.45	
1	8.668	8.667	0.001	2122202	9.39	M
1	9.041	9.040	0.001	1076794	9.89	M
		Average of Peak Amounts =			9.07	
2	7.160	7.156	0.004	719190	-3.57	
2	7.417	7.416	0.001	928702	1.42	
2	7.867	7.863	0.004	1152096	6.30	
2	8.694	8.690	0.004	2241677	6.90	
2	9.174	9.173	0.001	1644651	5.54	
		Average of Peak Amounts =			3.32	
					RPD = 92.88	
13 PCB-1268						U
1		9.084			ND	
1		9.137				
1		9.394				
1		9.864				
1		10.198				
2		9.167				
2		9.227				
2		9.567				
2		9.937				
2		10.307				
$ 15 DCB Decachlorobiphenyl						
1	10.398	10.400	-0.002	2608870	2.66	
2	10.567	10.566	0.001	2741163	2.73	
					RPD = 2.48	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags

S 8 Polychlorinated biphenyls, Total

1	9.07
2	3.32
	RPD = 92.88

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

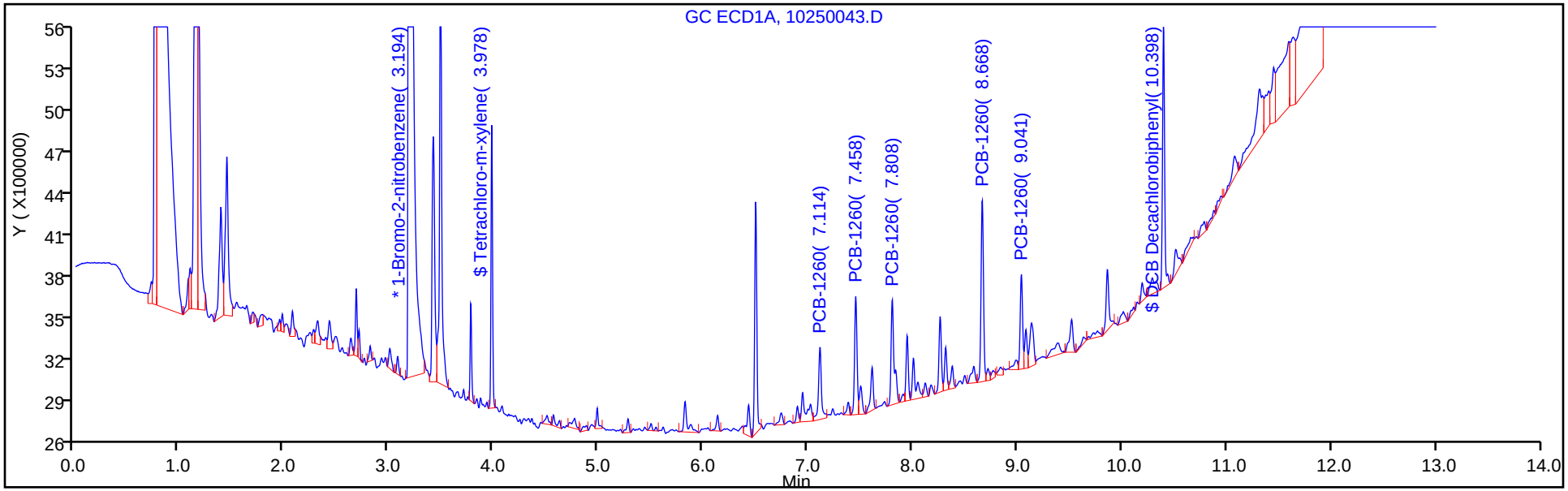
BNB IS_00023 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 26-Oct-2022 08:40:27 Chrom Revision: 2.3 28-Sep-2022 12:57:42

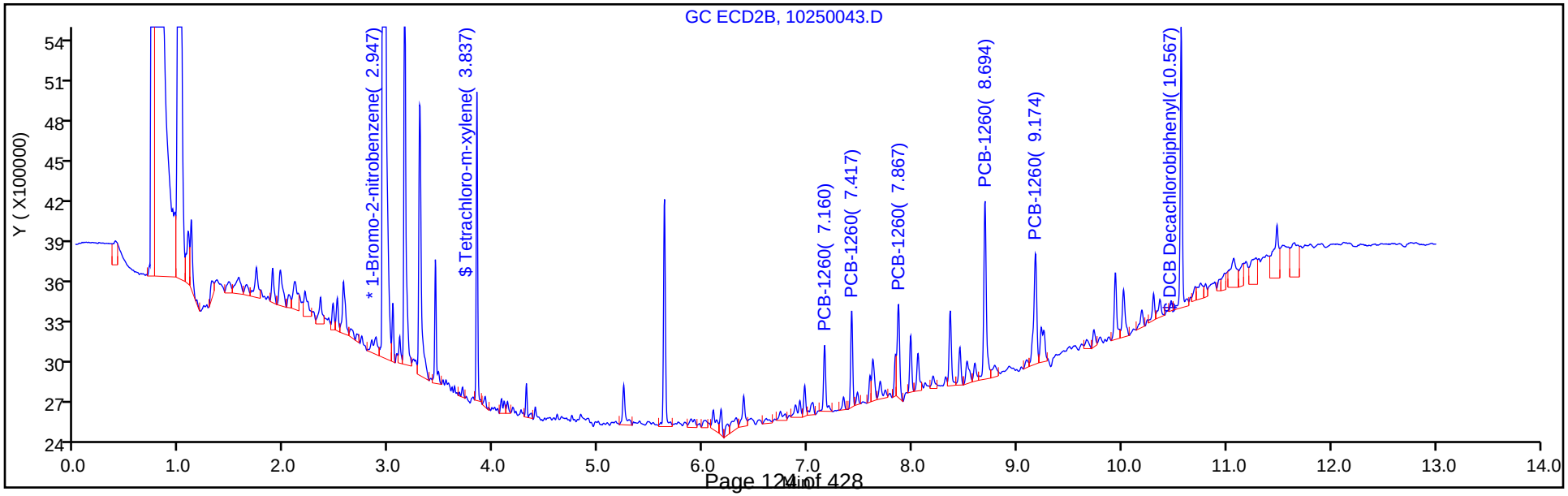
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250043.D				
Injection Date:	25-Oct-2022 22:49:05	Instrument ID:	SGC_P3	Operator ID:	SMP
Lims ID:	280-168095-A-1-A	Lab Sample ID:	280-168095-1	Worklist Smp#:	43
Client ID:	BS-T-01-BIG				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	43
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250043.D				
Lims ID:	280-168095-A-1-A				
Client ID:	BS-T-01-BIG				
Sample Type:	Client				
Inject. Date:	25-Oct-2022 22:49:05	ALS Bottle#:	43	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Sample Info:	280-168095-A-1-A				
Misc. Info.:	280-0115461-043				
Operator ID:	SMP	Instrument ID:	SGC_P3		

Method:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\PCB_P3.m		
Limit Group:	GCSV - 8082A - IS		
Last Update:	26-Oct-2022 08:40:03	Calib Date:	25-Oct-2022 11:31:41
Integrator:	Falcon		
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D		

Column 1 :	CLP1 Pesticides Column 1 (0.32 mm)	Det: GC ECD1A
Column 2 :	CLP2 Pesticides Column 2 (0.32 mm)	Det: GC ECD2B
Process Host:	CTX1658	

First Level Reviewer: USP3 Date: 26-Oct-2022 08:20:26

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 14 Tetrachloro-m-xylene	20.0	1.45	72.39
$ 15 DCB Decachlorobiphenyl	20.0	2.66	133.11

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 14 Tetrachloro-m-xylene	20.0	1.31	65.32
$ 15 DCB Decachlorobiphenyl	20.0	2.73	136.45

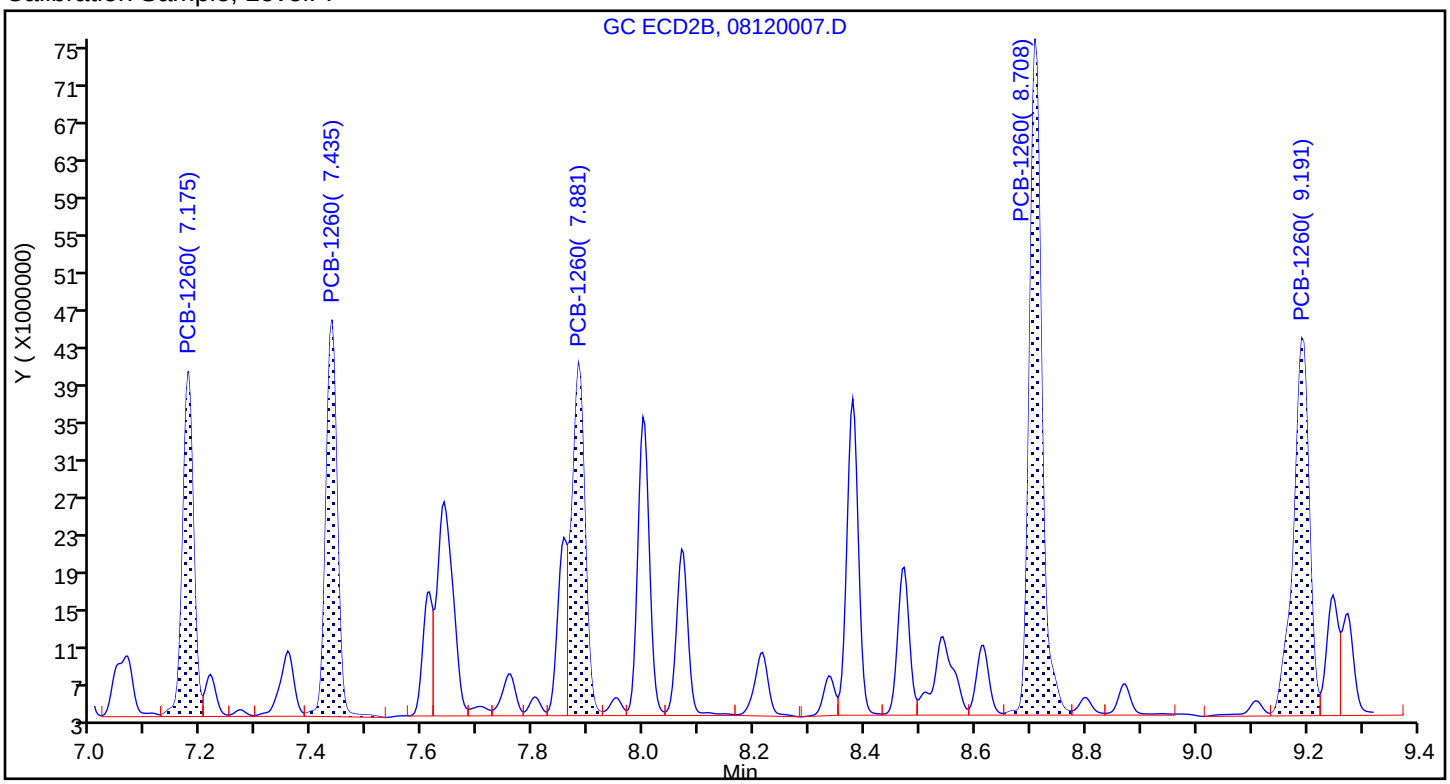
Report Date: 26-Oct-2022 08:40:27 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Denver

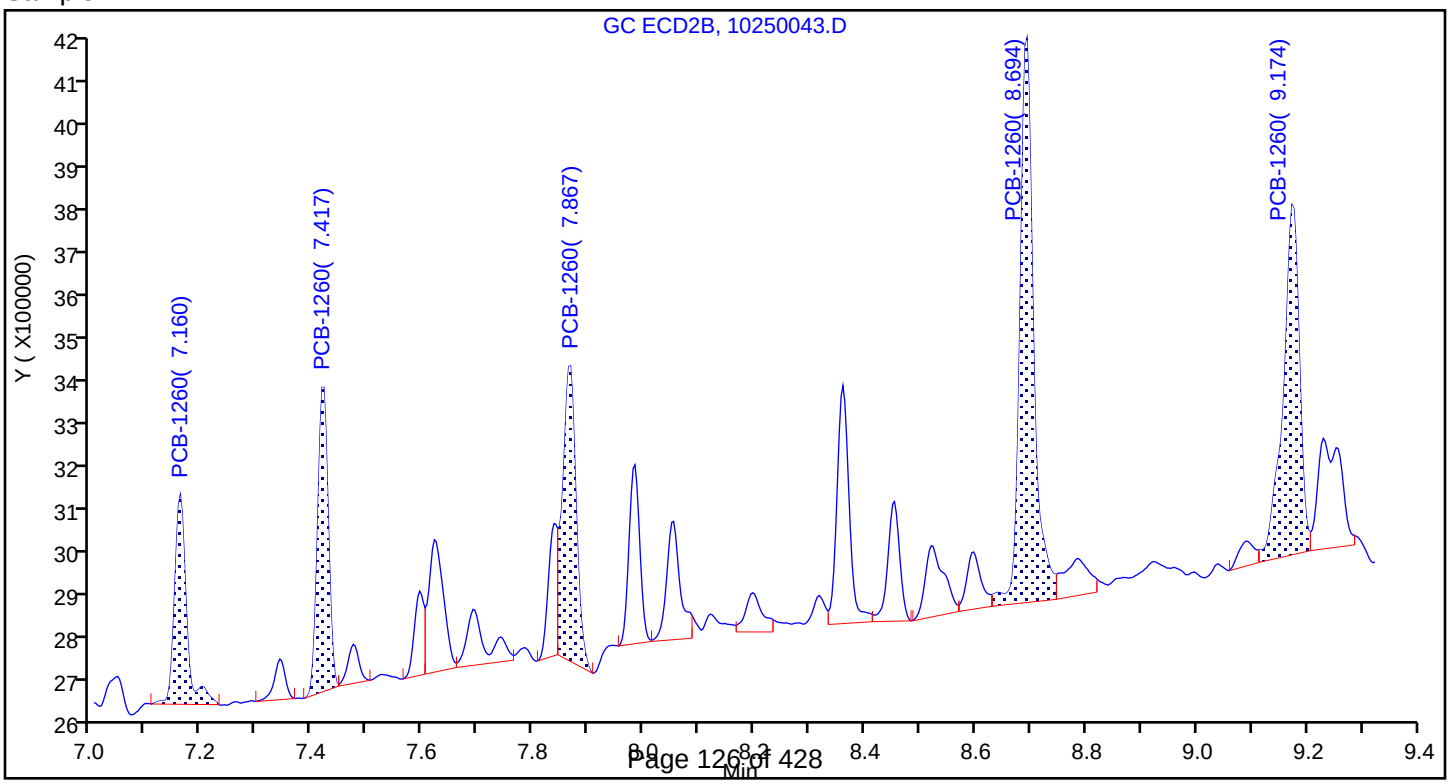
Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250043.D				
Injection Date:	25-Oct-2022 22:49:05	Instrument ID:	SGC_P3		
Lims ID:	280-168095-A-1-A	Lab Sample ID:	280-168095-1		
Client ID:	BS-T-01-BIG				
Operator ID:	SMP	ALS Bottle#:	43	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		
Column:	CLP2 Pesticides Column 2 (0.32 mm)	Detector	GC ECD2B		

12 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 7



Sample



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver
Job No.: 280-168095-2
SDG No.:
Client Sample ID: BS-T-02-SMALL
Lab Sample ID: 280-168095-5
Matrix: Waste
Lab File ID: 10250044.D
Analysis Method: 8082A
Date Collected: 10/19/2022 13:50
Extraction Method: 3580A
Date Extracted: 10/24/2022 16:37
Sample wt/vol: 1.0(g)
Date Analyzed: 10/25/2022 23:07
Con. Extract Vol.: 10(mL)
Dilution Factor: 20
Injection Volume: 1(uL)
GC Column: CLP1 ID: 0.32(mm)
% Moisture: % Solids:
GPC Cleanup:(Y/N) N
Cleanup Factor:
Analysis Batch No.: 591125
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
11104-28-2	PCB-1221	4500	U	28000	4500
12674-11-2	PCB-1016	3100	U	20000	3100
11141-16-5	PCB-1232	3100	U	20000	3100
53469-21-9	PCB-1242	5500	U	20000	5500
12672-29-6	PCB-1248	3400	U	20000	3400
11097-69-1	PCB-1254	3300	U	20000	3300
11096-82-5	PCB-1260	83000		20000	1600
37324-23-5	PCB-1262	2300	U	20000	2300
11100-14-4	PCB-1268	2400	U	20000	2400
1336-36-3	Polychlorinated biphenyls, Total	83000		20000	1600

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	64	D	53-128
2051-24-3	DCB Decachlorobiphenyl	135	S1+ D	59-130

Eurofins Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250044.D				
Lims ID:	280-168095-A-2-A				
Client ID:	BS-T-02-SMALL				
Sample Type:	Client				
Inject. Date:	25-Oct-2022 23:07:29	ALS Bottle#:	44	Worklist Smp#:	44
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Sample Info:	280-168095-A-2-A				
Misc. Info.:	280-0115461-044				
Operator ID:	SMP	Instrument ID:	SGC_P3		

Method:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\PCB_P3.m		
Limit Group:	GCSV - 8082A - IS		
Last Update:	26-Oct-2022 08:40:03	Calib Date:	25-Oct-2022 11:31:41
Integrator:	Falcon		
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D		

Column 1 :	CLP1 Pesticides Column 1 (0.32 mm)	Det: GC ECD1A
Column 2 :	CLP2 Pesticides Column 2 (0.32 mm)	Det: GC ECD2B
Process Host:	CTX1658	

First Level Reviewer: USP3 Date: 26-Oct-2022 08:22:04

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene						
1	3.193	3.194	-0.001	100900694	100.0	
2	2.946	2.946	0.000	105025319	100.0	
					RPD = 0.00	
$ 14 Tetrachloro-m-xylene						
1	3.977	3.977	0.000	1110745	0.6410	
2	3.836	3.833	0.003	1186975	0.5706	
					RPD = 11.63	
3 PCB-1221						
1		4.151			ND	
1		4.294				
1		4.334				
2		4.100				
2		4.227				
2		4.280				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags
7 PCB-1232						U
1		4.333			ND	
1		4.680				
1		5.130				
1		5.286				
1		5.716				
2		4.279				
2		4.652				
2		5.076				
2		5.226				
2		6.172				
10 PCB-1242						U
1		4.334			ND	
1		4.677				
1		5.127				
1		5.287				
1		6.184				
2		4.280				
2		4.653				
2		5.093				
2		5.223				
2		5.840				
1 PCB-1016						U
1		4.337			ND	
1		4.680				
1		5.147				
1		5.287				
1		5.720				
2		4.280				
2		4.653				
2		5.093				
2		5.226				
2		5.710				
4 PCB-1248						U
1		4.678			ND	
1		5.128				
1		5.718				
1		6.185				
1		6.898				
2		5.078				
2		5.708				
2		5.841				
2		6.124				
2		6.431				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags
9 PCB-1254						U
1		6.188			ND	
1		6.431				
1		6.901				
1		7.461				
1		7.808				
2		6.167				
2		6.384				
2		6.920				
2		7.197				
2		7.864				
5 PCB-1262						U
1		7.116			ND	
1		7.456				
1		7.950				
1		8.666				
1		9.086				
2		6.966				
2		7.982				
2		8.359				
2		8.692				
2		9.169				
12 PCB-1260						
1	7.117	7.117	0.000	17300898	395.6	
1	7.457	7.457	0.000	28755750	418.6	
1	7.807	7.807	0.000	36902679	463.8	
1	8.667	8.667	0.000	36552470	360.6	
1	9.040	9.040	0.000	22863980	431.1	
		Average of Peak Amounts =			413.9	
2	7.159	7.156	0.003	17594277	354.4	
2	7.416	7.416	0.000	21016039	348.2	
2	7.866	7.863	0.003	27132190	445.6	
2	8.693	8.690	0.003	36376031	330.9	
2	9.176	9.173	0.003	27919907	349.5	
		Average of Peak Amounts =			365.7	
					RPD = 12.37	
13 PCB-1268						U
1		9.084			ND	
1		9.137				
1		9.394				
1		9.864				
1		10.198				
2		9.167				
2		9.227				
2		9.567				
2		9.937				
2		10.307				
$ 15 DCB Decachlorobiphenyl						
1	10.397	10.400	-0.003	1336870	1.35	
2	10.569	10.566	0.003	1494625	1.54	
					RPD = 13.14	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ml	Flags

S 8 Polychlorinated biphenyls, Total

1	413.9
2	365.7
	RPD = 12.37

QC Flag Legend

Processing Flags

Review Flags

U - Marked Undetected

Reagents:

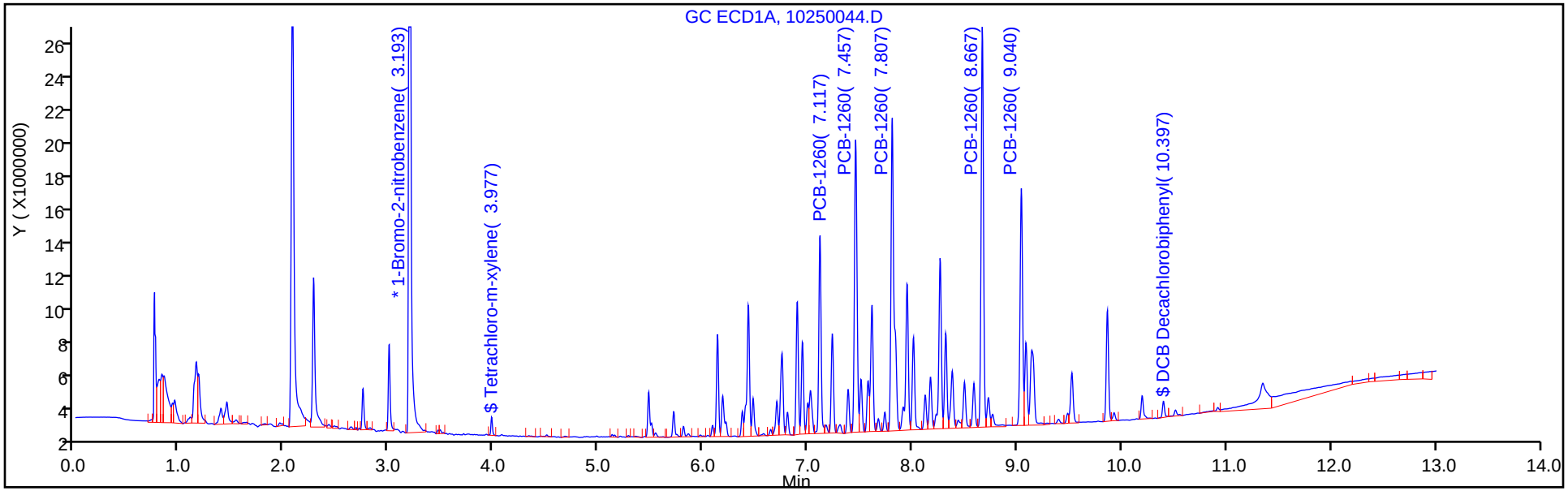
BNB IS_00023 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 26-Oct-2022 08:40:29 Chrom Revision: 2.3 28-Sep-2022 12:57:42

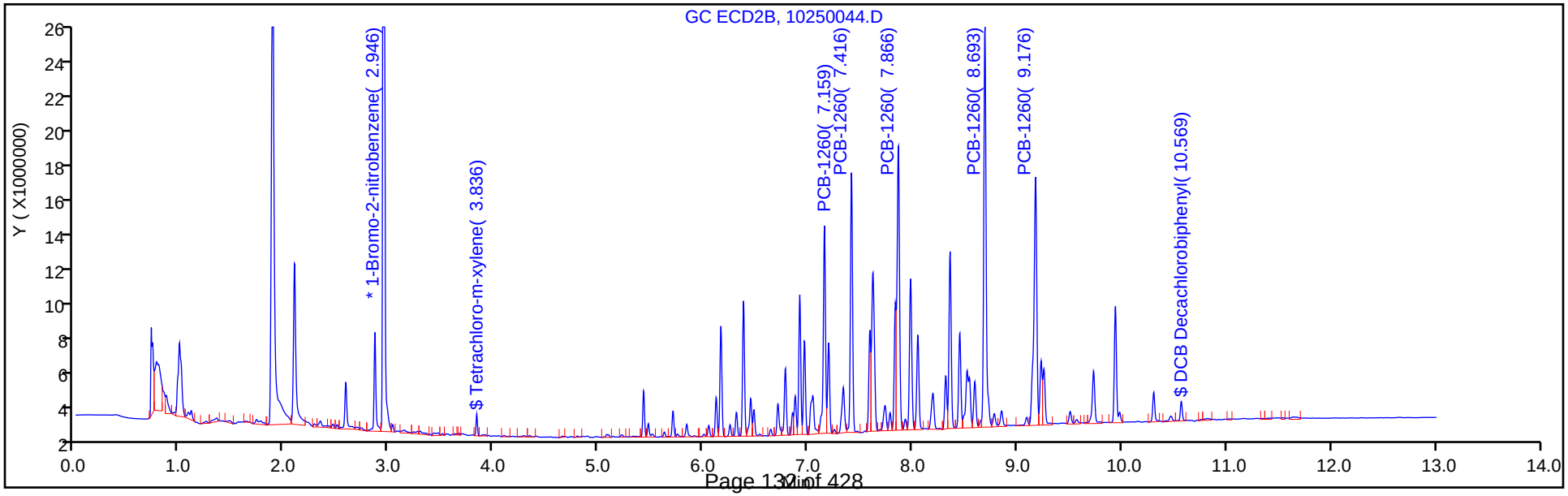
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250044.D				
Injection Date:	25-Oct-2022 23:07:29	Instrument ID:	SGC_P3	Operator ID:	SMP
Lims ID:	280-168095-A-2-A	Lab Sample ID:	280-168095-2	Worklist Smp#:	44
Client ID:	BS-T-02-SMALL				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	44
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250044.D				
Lims ID:	280-168095-A-2-A				
Client ID:	BS-T-02-SMALL				
Sample Type:	Client				
Inject. Date:	25-Oct-2022 23:07:29	ALS Bottle#:	44	Worklist Smp#:	44
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Sample Info:	280-168095-A-2-A				
Misc. Info.:	280-0115461-044				
Operator ID:	SMP	Instrument ID:	SGC_P3		

Method:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\PCB_P3.m		
Limit Group:	GCSV - 8082A - IS		
Last Update:	26-Oct-2022 08:40:03	Calib Date:	25-Oct-2022 11:31:41
Integrator:	Falcon		
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D		

Column 1 :	CLP1 Pesticides Column 1 (0.32 mm)	Det: GC ECD1A
Column 2 :	CLP2 Pesticides Column 2 (0.32 mm)	Det: GC ECD2B
Process Host:	CTX1658	

First Level Reviewer: USP3 Date: 26-Oct-2022 08:22:04

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 14 Tetrachloro-m-xylene	20.0	0.6410	64.10
$ 15 DCB Decachlorobiphenyl	20.0	1.35	134.84

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 14 Tetrachloro-m-xylene	20.0	0.5706	57.06
$ 15 DCB Decachlorobiphenyl	20.0	1.54	153.80

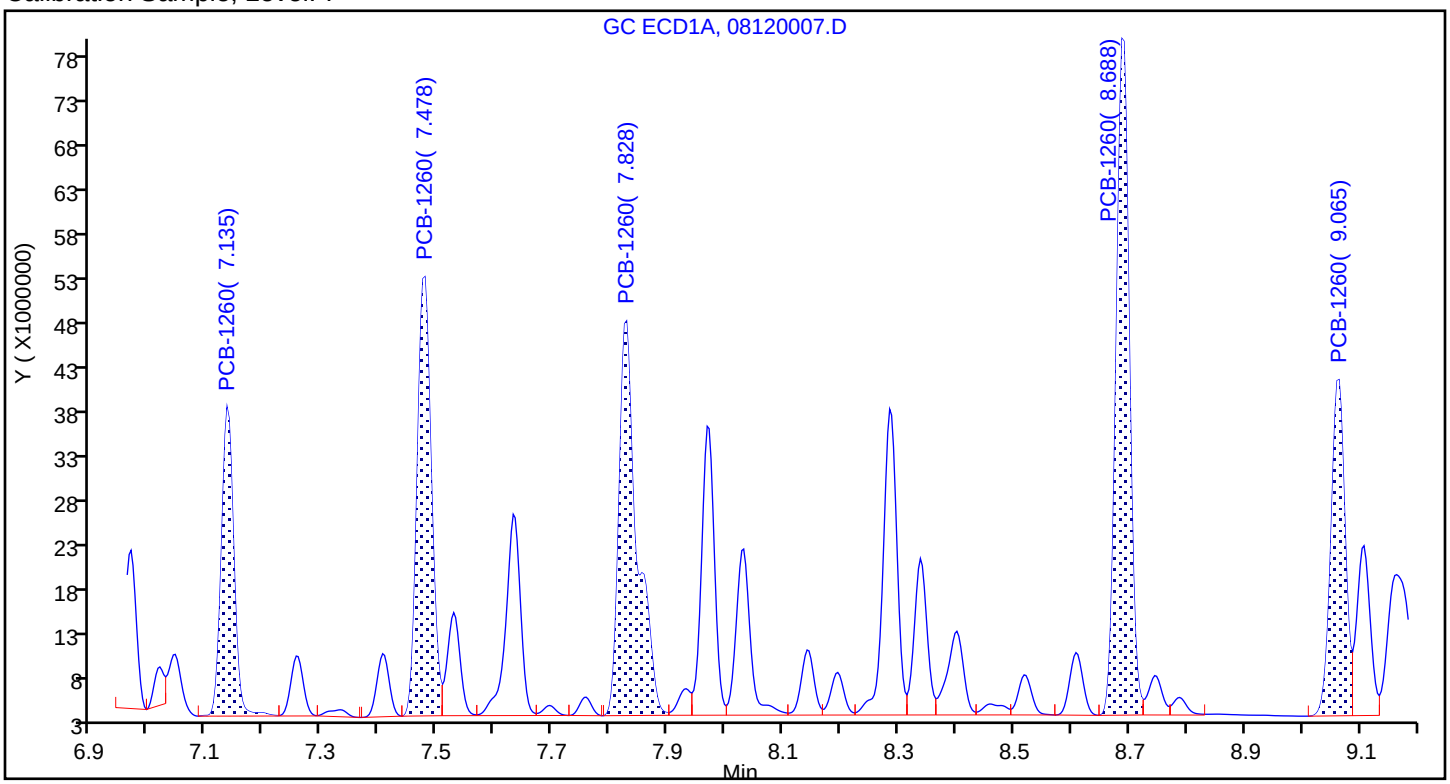
Report Date: 26-Oct-2022 08:40:29 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Denver

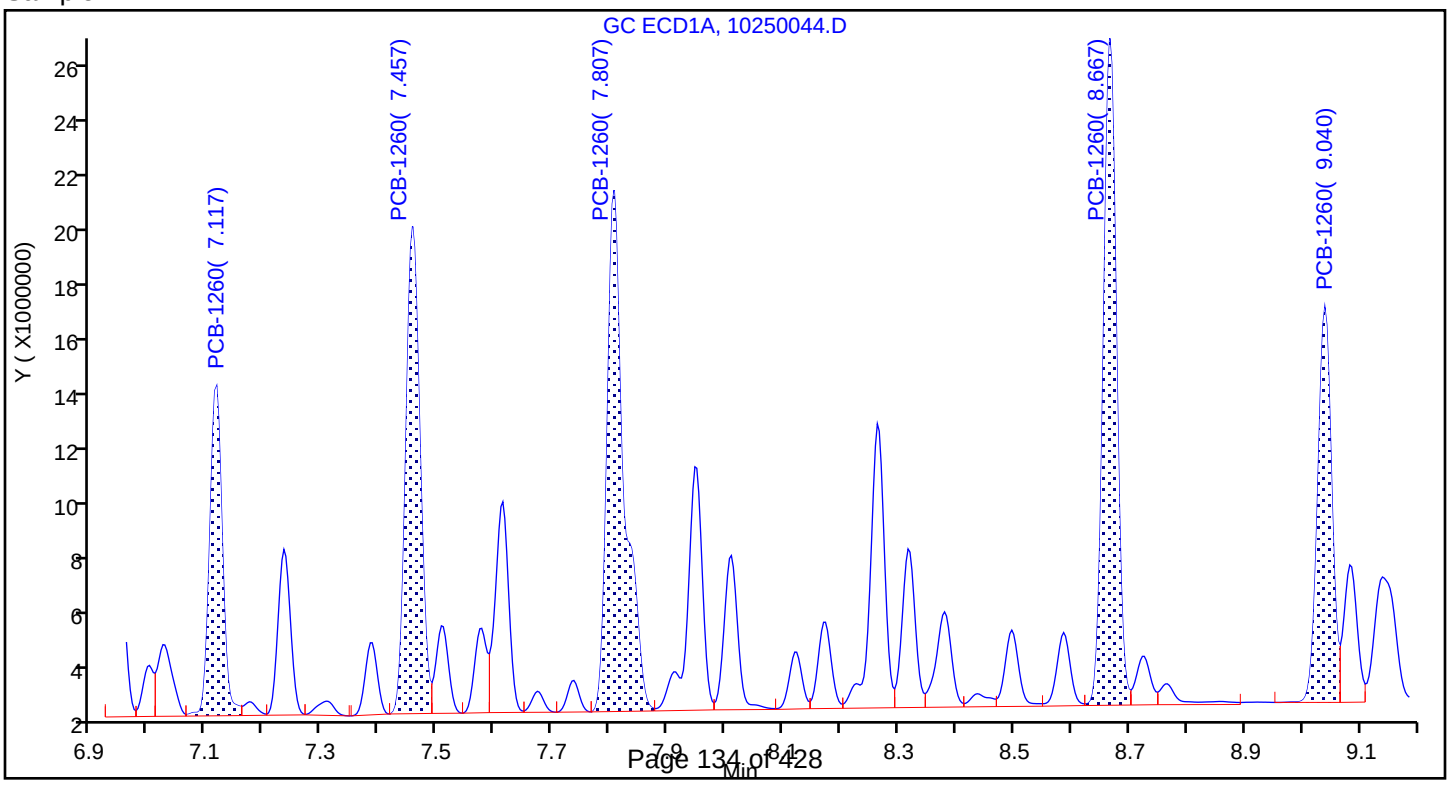
Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250044.D				
Injection Date:	25-Oct-2022 23:07:29	Instrument ID:	SGC_P3		
Lims ID:	280-168095-A-2-A	Lab Sample ID:	280-168095-2		
Client ID:	BS-T-02-SMALL				
Operator ID:	SMP	ALS Bottle#:	44	Worklist Smp#:	44
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		
Column:	CLP1 Pesticides Column 1 (0.32 mm)	Detector	GC ECD1A		

12 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 7



Sample



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-168095-2 Analy Batch No.: 583810

SDG No.:

Instrument ID: SGC_P3 GC Column: CLP1 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/12/2022 12:05 Calibration End Date: 08/12/2022 14:02 Calibration ID: 69968

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-583810/13	08120013.D
Level 2	STD2 280-583810/12	08120012.D
Level 3	STD3 280-583810/11	08120011.D
Level 4	STD4 280-583810/10	08120010.D
Level 5	ICIS 280-583810/9	08120009.D
Level 6	STD6 280-583810/8	08120008.D
Level 7	STD7 280-583810/7	08120007.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0256 0.0188	0.0243 0.0169	0.0235	0.0219	0.0202	Ave		0.0216				14.4		20.0			
PCB-1016 Peak 2	0.0531 0.0388	0.0482 0.0350	0.0482	0.0452	0.0415	Lin2	0.3668	0.0401							0.9900		0.9900
PCB-1016 Peak 3	0.1065 0.0803	0.1008 0.0726	0.0960	0.0902	0.0839	Lin2	0.7244	0.0818							0.9920		0.9900
PCB-1016 Peak 4	0.0459 0.0342	0.0436 0.0308	0.0418	0.0391	0.0361	Lin2	0.3191	0.0352							0.9900		0.9900
PCB-1016 Peak 5	0.0470 0.0353	0.0446 0.0309	0.0429	0.0404	0.0372	Ave		0.0398				14.2		20.0			
PCB-1260 Peak 1	0.0571 0.0409	0.0525 0.0371	0.0508	0.0480	0.0432	Lin2	0.4253	0.0423							0.9900		0.9900
PCB-1260 Peak 2	0.1078 0.0662	0.0834 0.0599	0.0802	0.0754	0.0695	Lin2	1.0536	0.0656							0.9940		0.9900
PCB-1260 Peak 3	0.1042 0.0763	0.0935 0.0688	0.0914	0.0861	0.0794	Lin2	0.7418	0.0773							0.9930		0.9900
PCB-1260 Peak 4	0.1357 0.0958	0.1238 0.0869	0.1202	0.1066	0.0995	Lin2	1.0903	0.0974							0.9910		0.9900
PCB-1260 Peak 5	0.0696 0.0504	0.0631 0.0459	0.0614	0.0565	0.0531	Lin2	0.5094	0.0514							0.9930		0.9900
Tetrachloro-m-xylene	1.3851 1.0537	1.2874 +++++	1.2120	1.1474	1.0920	Lin2	0.4011	1.0915							0.9980		0.9900
DCB Decachlorobiphenyl	0.9839 +++++	0.9224 +++++	0.9424	0.9087	0.8198	Lin2	0.1549	0.8677							0.9970		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-168095-2 Analy Batch No.: 583810

SDG No.:

Instrument ID: SGC_P3 GC Column: CLP1 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/12/2022 12:05 Calibration End Date: 08/12/2022 14:02 Calibration ID: 69968

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-583810/13	08120013.D
Level 2	STD2 280-583810/12	08120012.D
Level 3	STD3 280-583810/11	08120011.D
Level 4	STD4 280-583810/10	08120010.D
Level 5	ICIS 280-583810/9	08120009.D
Level 6	STD6 280-583810/8	08120008.D
Level 7	STD7 280-583810/7	08120007.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Ave	896785 22108568	1720144 23371028	3501676	5997099	13589406	25.0 750	50.0 1000	100	200	500
PCB-1016 Peak 2	BNB	Lin2	1858778 45575631	3415874 48302030	7170705	12368277	27875559	25.0 750	50.0 1000	100	200	500
PCB-1016 Peak 3	BNB	Lin2	3729627 94279445	7138970 100074473	14291038	24656903	56358320	25.0 750	50.0 1000	100	200	500
PCB-1016 Peak 4	BNB	Lin2	1607900 40186839	3090684 42511628	6217378	10698945	24280601	25.0 750	50.0 1000	100	200	500
PCB-1016 Peak 5	BNB	Ave	1644345 41423632	3156985 42662739	6392420	11053919	24983210	25.0 750	50.0 1000	100	200	500
PCB-1260 Peak 1	BNB	Lin2	1998625 48001804	3720606 51157397	7565922	13127586	29061489	25.0 750	50.0 1000	100	200	500
PCB-1260 Peak 2	BNB	Lin2	3774535 77751913	5907150 82603596	11942829	20623301	46743609	25.0 750	50.0 1000	100	200	500
PCB-1260 Peak 3	BNB	Lin2	3646365 89528623	6623885 94938514	13600580	23548746	53350513	25.0 750	50.0 1000	100	200	500
PCB-1260 Peak 4	BNB	Lin2	4751322 112452657	8773602 119804929	17890677	29159201	66902720	25.0 750	50.0 1000	100	200	500
PCB-1260 Peak 5	BNB	Lin2	2436059 59147007	4471426 63338438	9146502	15460810	35685638	25.0 750	50.0 1000	100	200	500
Tetrachloro-m-xylene	BNB	Lin2	2424388 61856808	4559939 +++++	9021887	15689079	36696985	1.25 37.5	2.50 +++++	5.00	10.0	25.0
DCB Decachlorobiphenyl	BNB	Lin2	1722187 +++++	3267342 +++++	7015195	12424612	27550847	1.25 +++++	2.50 +++++	5.00	10.0	25.0

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-168095-2 Analy Batch No.: 583810

SDG No.:

Instrument ID: SGC_P3 GC Column: CLP1 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/12/2022 12:05 Calibration End Date: 08/12/2022 14:02 Calibration ID: 69968

Curve Type Legend
Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120007.D
Lims ID: STD7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 12-Aug-2022 12:05:36 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: STD7
Misc. Info.: 280-0113425-007
Operator ID: smp Instrument ID: SGC_P3
Sublist: chrom-PCB_P3*sub1

Method: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\PCB_P3.m
Limit Group: GCSV - 8082A - IS
Last Update: 16-Aug-2022 09:15:48 Calib Date: 12-Aug-2022 14:02:47
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120013.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
Process Host: CTX1667

First Level Reviewer: USP3 Date: 15-Aug-2022 10:31:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.208	3.206	0.002	137906979	100.0	100.0	
2	2.955	2.952	0.003	118889957	100.0	100.0	
						RPD = 0.00	
$ 14 Tetrachloro-m-xylene							
1	3.991	3.990	0.001	65542962	50.0	43.2	
2	3.845	3.844	0.001	59280238	50.0	45.4	
						RPD = 5.10	
1 PCB-1016							
1	4.348	4.350	-0.002	23371028	1000.0	783.8	
1	4.695	4.697	-0.002	48302030	1000.0	863.6	
1	5.145	5.147	-0.002	100074473	1000.0	878.1	
1	5.305	5.307	-0.002	42511628	1000.0	867.0	
1	5.735	5.737	-0.002	42662739	1000.0	778.2	
		Average of Peak Amounts =				834.1	
2	4.291	4.290	0.001	20314577	1000.0	925.3	
2	4.665	4.664	0.001	41828919	1000.0	904.6	
2	5.105	5.090	0.015	92553851	1000.0	902.5	
2	5.238	5.240	-0.002	38164809	1000.0	919.3	
2	5.725	5.724	0.001	28587156	1000.0	882.4	
		Average of Peak Amounts =				906.8	
						RPD = 8.35	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12 PCB-1260							
1	7.135	7.137	-0.002	51157397	1000.0	867.5	
1	7.478	7.477	0.001	82603596	1000.0	897.6	
1	7.828	7.827	0.001	94938514	1000.0	881.6	
1	8.688	8.690	-0.002	119804929	1000.0	880.4	
1	9.065	9.064	0.001	63338438	1000.0	884.0	
		Average of Peak Amounts =				882.2	
2	7.175	7.174	0.001	50189405	1000.0	920.9	
2	7.435	7.434	0.001	60006952	1000.0	899.8	
2	7.881	7.884	-0.003	62395306	1000.0	918.2	
2	8.708	8.710	-0.002	111193312	1000.0	916.8	
2	9.191	9.194	-0.003	80007866	1000.0	908.1	
		Average of Peak Amounts =				912.8	
						RPD = 3.41	
$ 15 DCB Decachlorobiphenyl							a
1	10.418	10.420	-0.002	48613300	50.0	40.4	a
2	10.581	10.584	-0.003	43072881	50.0	39.2	a
						RPD = 3.24	
S 8 Polychlorinated biphenyls, Total							
1						1716.3	
2						1819.6	
						RPD = 5.84	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

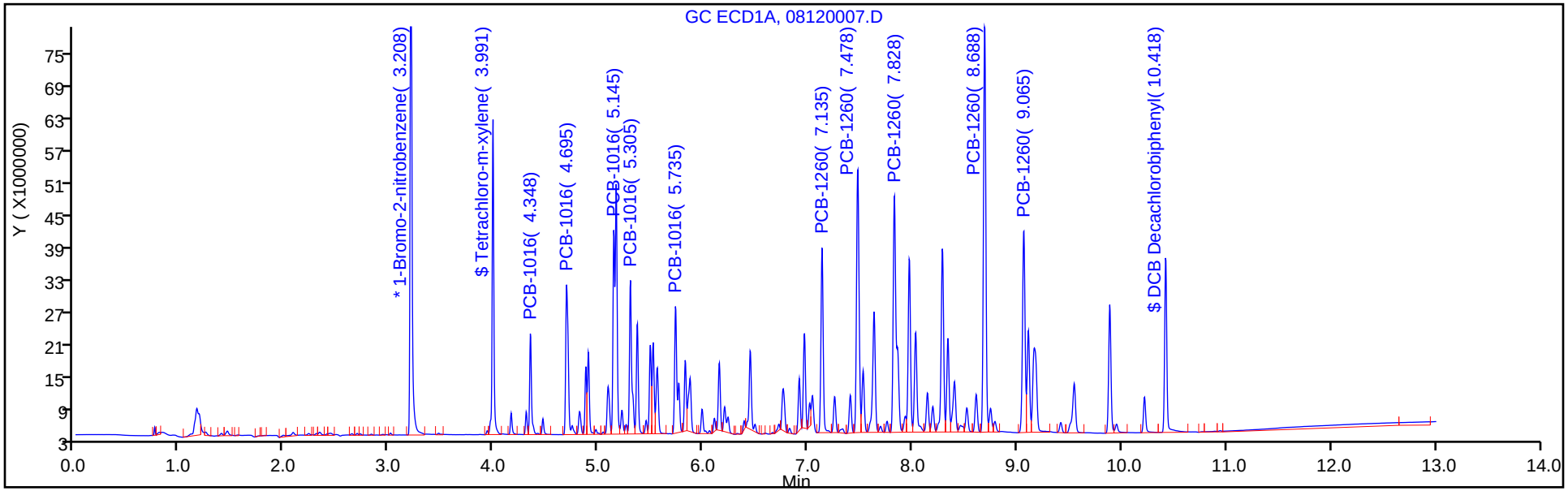
AR_1660_L7_00040	Amount Added: 200.00	Units: uL	
BNB IS_00022	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 16-Aug-2022 09:15:48 Chrom Revision: 2.3 08-Aug-2022 16:03:06

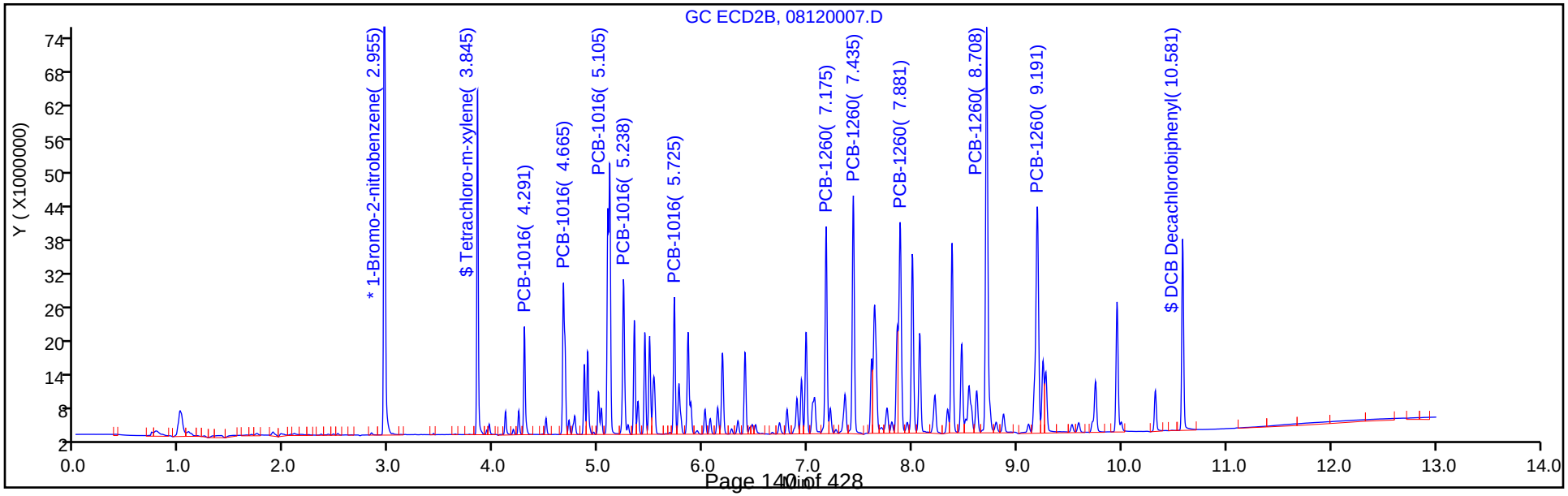
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120007.D				
Injection Date:	12-Aug-2022 12:05:36	Instrument ID:	SGC_P3	Operator ID:	smp
Lims ID:	STD7			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Denver

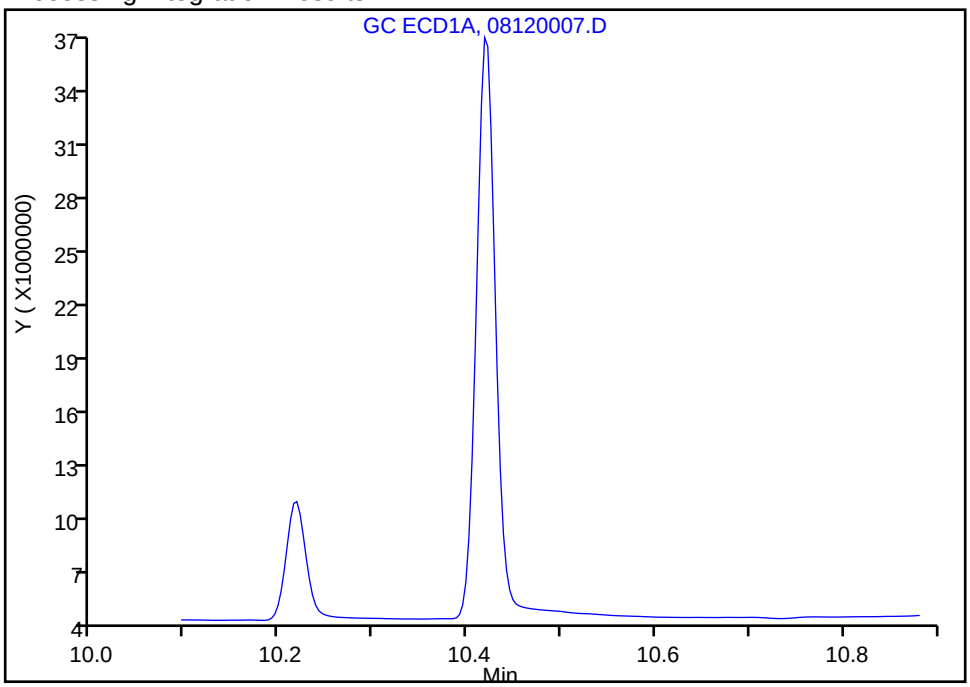
Data File:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120007.D				
Injection Date:	12-Aug-2022 12:05:36	Instrument ID:	SGC_P3		
Lims ID:	STD7				
Client ID:					
Operator ID:	smp	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		
Column:	CLP1 Pesticides Column 1 (0.32 mm)	Detector	GC ECD1A		

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

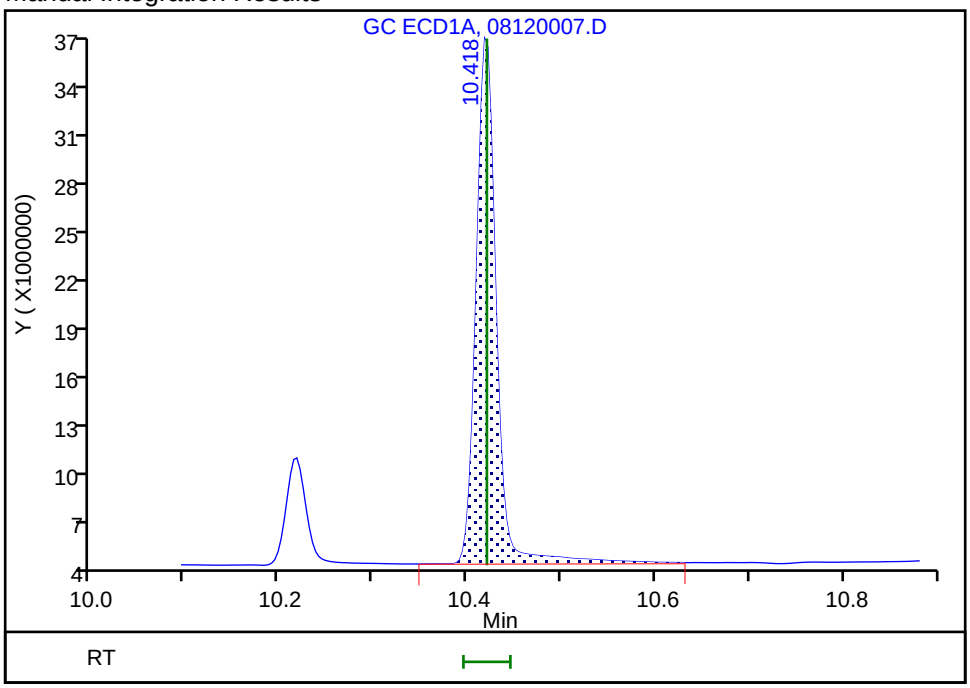
Not Detected
Expected RT: 10.42

Processing Integration Results



Manual Integration Results

RT: 10.42
Area: 48613300
Amount: 40.445453
Amount Units: ng/ml



Reviewer: USP3, 15-Aug-2022 10:13:59
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120008.D
Lims ID: STD6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 12-Aug-2022 12:25:02 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: STD6
Misc. Info.: 280-0113425-008
Operator ID: smp Instrument ID: SGC_P3
Sublist: chrom-PCB_P3*sub1

Method: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\PCB_P3.m
Limit Group: GCSV - 8082A - IS
Last Update: 16-Aug-2022 09:15:34 Calib Date: 12-Aug-2022 14:02:47
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120013.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
Process Host: CTX1667

First Level Reviewer: USP3 Date: 15-Aug-2022 10:13:56

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.208	3.207	0.001	156551147	100.0	100.0	
2	2.955	2.954	0.001	135992639	100.0	100.0	
						RPD = 0.00	
$ 14 Tetrachloro-m-xylene							
1	3.992	3.990	0.002	61856808	37.5	35.8	
2	3.842	3.844	-0.002	55818821	37.5	37.3	
						RPD = 4.06	
1 PCB-1016							
1	4.348	4.350	-0.002	22108568	750.0	653.2	
1	4.695	4.697	-0.002	45575631	750.0	716.3	
1	5.145	5.147	-0.002	94279445	750.0	727.2	
1	5.305	5.307	-0.002	40186839	750.0	720.5	
1	5.735	5.737	-0.002	41423632	750.0	665.6	
		Average of Peak Amounts =				696.5	
2	4.292	4.290	0.002	19112983	750.0	756.1	
2	4.665	4.664	0.001	38929597	750.0	732.5	
2	5.108	5.090	0.018	86444201	750.0	735.3	
2	5.238	5.240	-0.002	35836721	750.0	753.0	
2	5.725	5.724	0.001	26775547	750.0	720.5	
		Average of Peak Amounts =				739.5	
						RPD = 5.98	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12 PCB-1260							
1	7.135	7.137	-0.002	48001804	750.0	715.3	
1	7.478	7.477	0.001	77751913	750.0	741.5	
1	7.828	7.827	0.001	89528623	750.0	730.7	
1	8.688	8.690	-0.002	112452657	750.0	726.0	
1	9.065	9.064	0.001	59147007	750.0	725.4	
		Average of Peak Amounts =				727.8	
2	7.175	7.174	0.001	47021859	750.0	751.0	
2	7.435	7.434	0.001	56401191	750.0	736.9	
2	7.882	7.884	-0.002	57790385	750.0	741.1	
2	8.708	8.710	-0.002	103943807	750.0	746.7	
2	9.195	9.194	0.001	74255186	750.0	734.0	
		Average of Peak Amounts =				741.9	
						RPD = 1.92	
$ 15 DCB Decachlorobiphenyl							
1	10.422	10.420	0.002	44918000	37.5	32.9	
2	10.582	10.584	-0.002	41036391	37.5	32.6	
						RPD = 0.84	
S 8 Polychlorinated biphenyls, Total							
1						1424.3	
2						1481.4	
						RPD = 3.93	

QC Flag Legend

Processing Flags

Reagents:

AR_1660_L7_00040	Amount Added: 150.00	Units: uL	
BNB IS_00022	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 16-Aug-2022 09:15:35 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120008.D

Injection Date: 12-Aug-2022 12:25:02 Instrument ID: SGC_P3 Operator ID: smp

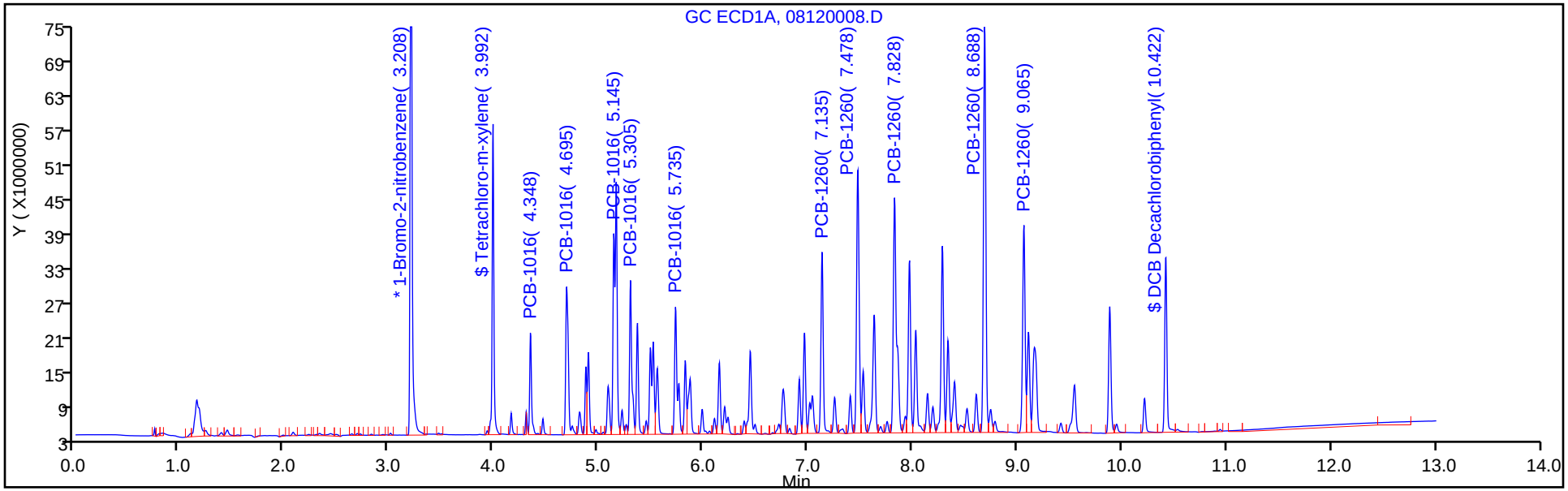
Lims ID: STD6 Worklist Smp#: 8

Client ID:

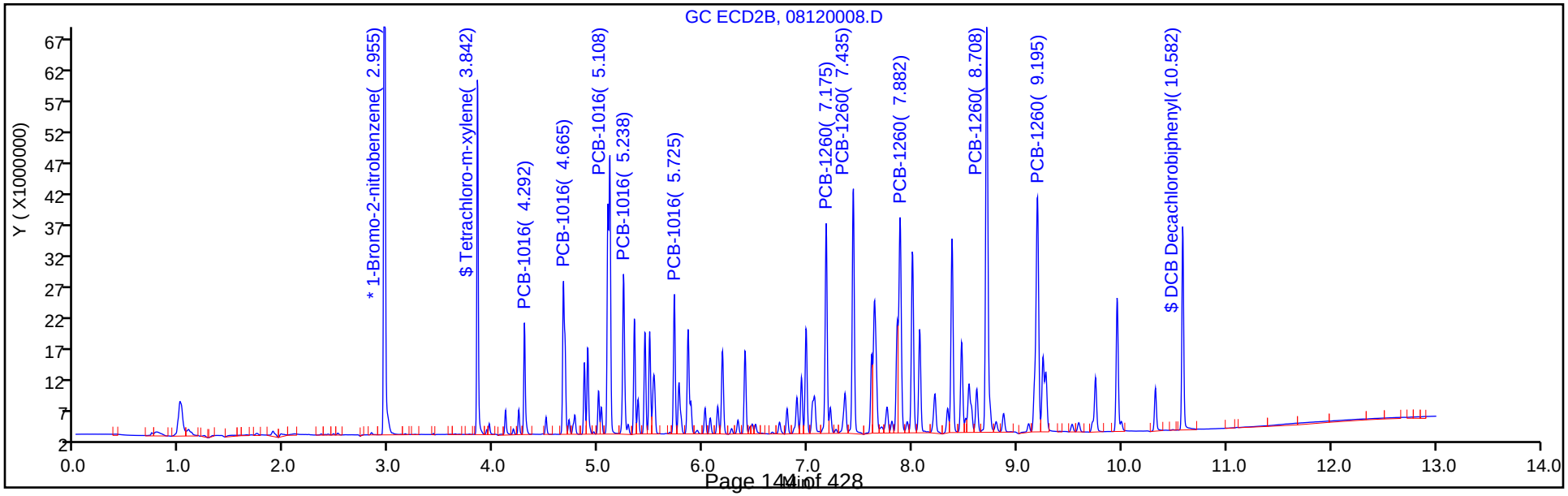
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 8

Method: PCB_P3 Limit Group: GCSV - 8082A - IS

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120009.D				
Lims ID:	ICIS				
Client ID:					
Sample Type:	ICIS	Calib Level:	5		
Inject. Date:	12-Aug-2022 12:44:34	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	ICIS				
Misc. Info.:	280-0113425-009				
Operator ID:	smp	Instrument ID:	SGC_P3		
Sublist:	chrom-PCB_P3*sub1				
Method:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\PCB_P3.m				
Limit Group:	GCSV - 8082A - IS				
Last Update:	15-Aug-2022 10:39:11	Calib Date:	12-Aug-2022 14:02:47		
Integrator:	Falcon				
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120013.D				
Column 1 :	CLP1 Pesticides Column 1 (0.32 mm)		Det: GC ECD1A		
Column 2 :	CLP2 Pesticides Column 2 (0.32 mm)		Det: GC ECD2B		
Process Host:	CTX1649				
First Level Reviewer: USP3		Date:	15-Aug-2022 10:10:53		

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.207	3.207	0.000	134424573	100.0	100.0	
2	2.954	2.954	0.000	115993086	100.0	100.0	
						RPD = 0.00	
$ 14 Tetrachloro-m-xylene							
1	3.990	3.990	0.000	36696985	25.0	24.6	
2	3.844	3.844	0.000	32760660	25.0	25.5	
						RPD = 3.54	
1 PCB-1016							a
1	4.350	4.350	0.000	13589406	500.0	467.6	
1	4.697	4.697	0.000	27875559	500.0	507.6	
1	5.147	5.147	0.000	56358320	500.0	503.6	a
1	5.307	5.307	0.000	24280601	500.0	504.3	
1	5.737	5.737	0.000	24983210	500.0	467.5	a
		Average of Peak Amounts =				490.1	
2	4.290	4.290	0.000	11846510	500.0	541.7	
2	4.664	4.664	0.000	23612835	500.0	515.5	
2	5.090	5.090	0.000	50835234	500.0	504.2	a
2	5.240	5.240	0.000	20050475	500.0	490.6	a
2	5.724	5.724	0.000	15945394	500.0	499.7	a
		Average of Peak Amounts =				510.3	
						RPD = 4.05	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12 PCB-1260							a
1	7.137	7.137	0.000	29061489	500.0	501.4	a
1	7.477	7.477	0.000	46743609	500.0	514.3	a
1	7.827	7.827	0.000	53350513	500.0	504.2	a
1	8.690	8.690	0.000	66902720	500.0	499.6	a
1	9.064	9.064	0.000	35685638	500.0	506.8	a
		Average of Peak Amounts =				505.2	
2	7.174	7.174	0.000	27827900	500.0	515.4	a
2	7.434	7.434	0.000	33533023	500.0	509.4	a
2	7.884	7.884	0.000	33258092	500.0	496.0	
2	8.710	8.710	0.000	60871147	500.0	508.4	a
2	9.194	9.194	0.000	43855086	500.0	503.5	a
		Average of Peak Amounts =				506.5	
						RPD = 0.26	
$ 15 DCB Decachlorobiphenyl							a
1	10.420	10.420	0.000	27550847	25.0	23.4	a
2	10.584	10.584	0.000	24465211	25.0	22.8	a
						RPD = 2.79	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

AR_1660_L7_00040	Amount Added: 100.00	Units: uL	
BNB IS_00022	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 15-Aug-2022 10:39:12 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120009.D

Injection Date: 12-Aug-2022 12:44:34 Instrument ID: SGC_P3 Operator ID: smp

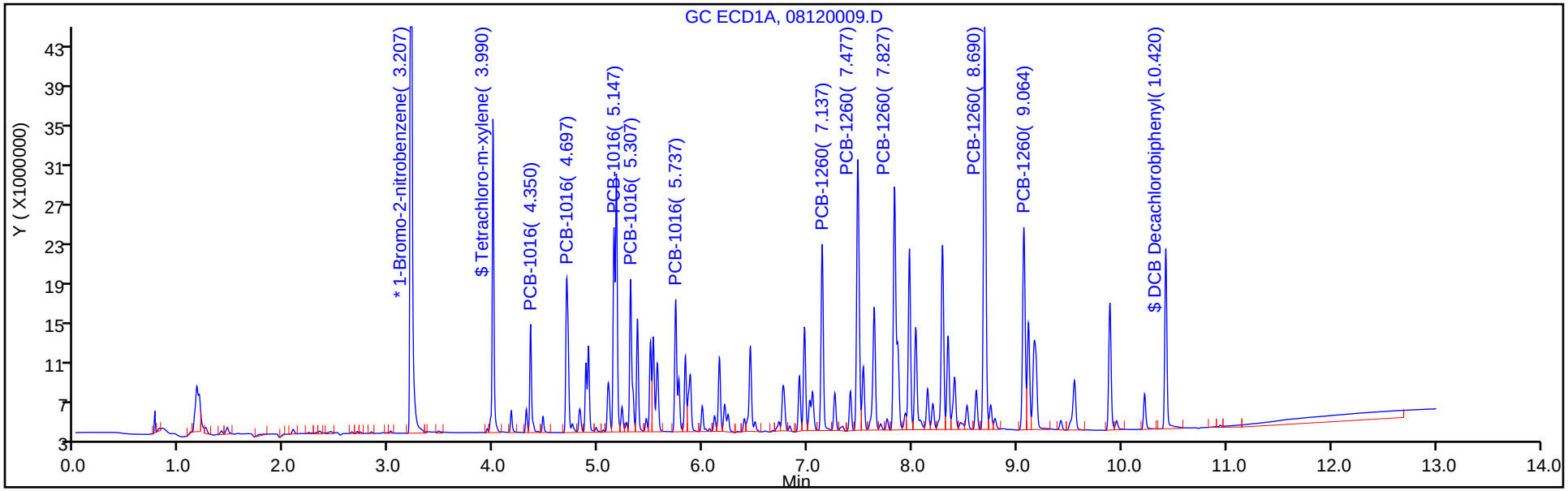
Lims ID: ICIS Worklist Smp#: 9

Client ID:

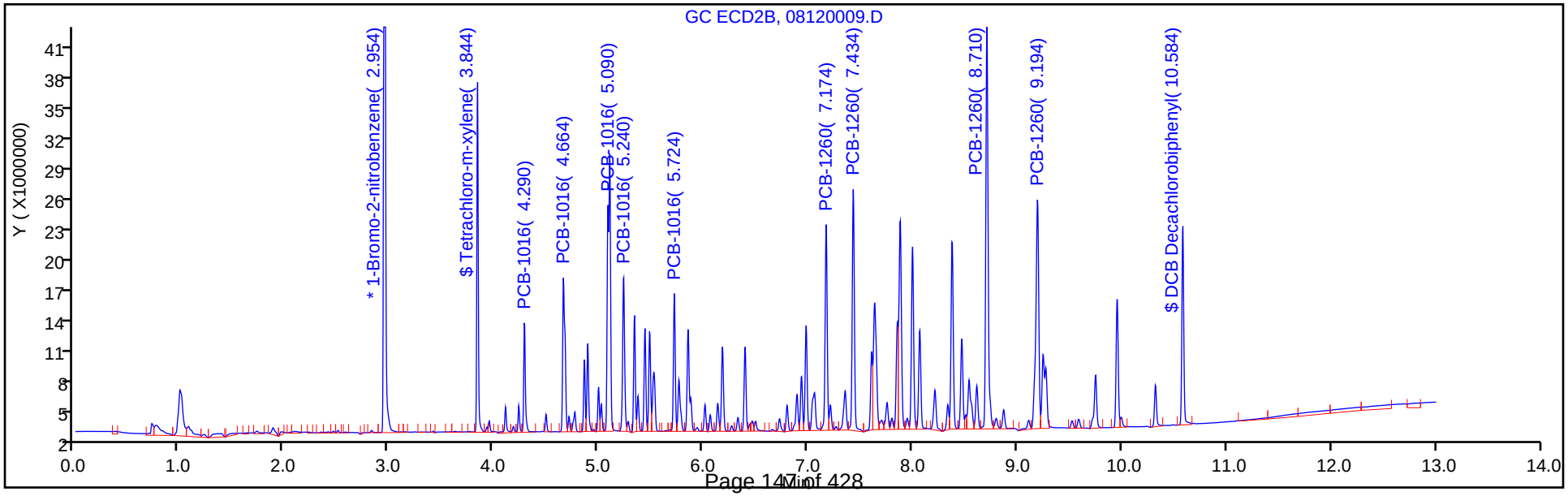
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 9

Method: PCB_P3 Limit Group: GCSV - 8082A - IS

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2

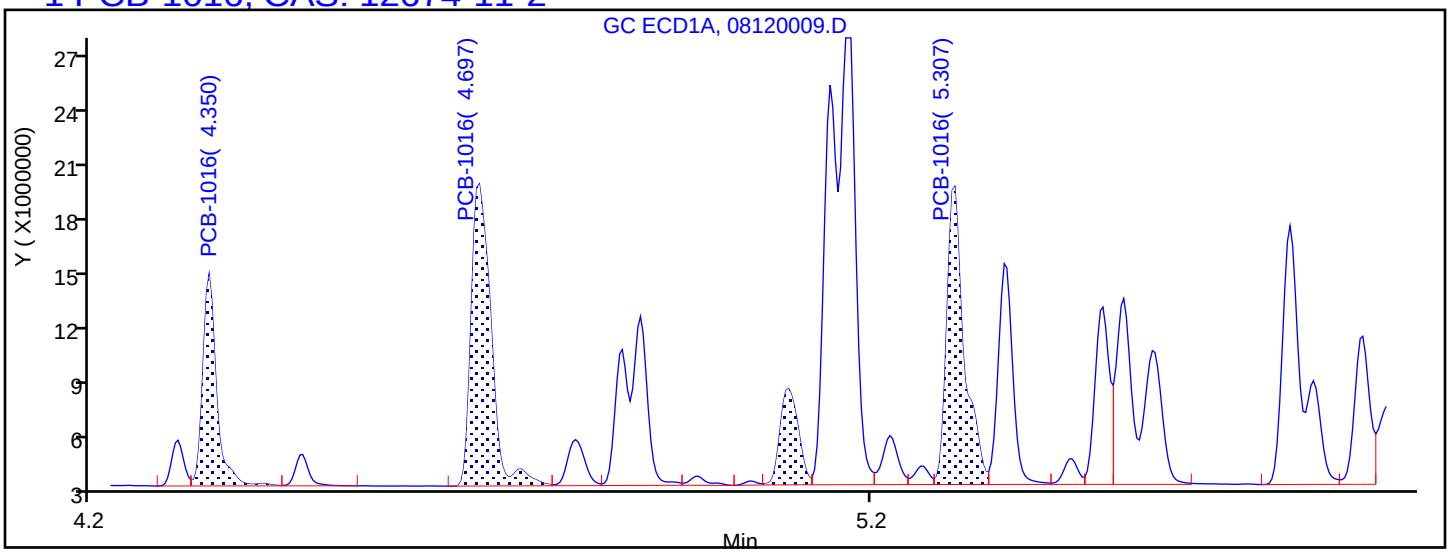


Report Date: 15-Aug-2022 10:39:12 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Denver

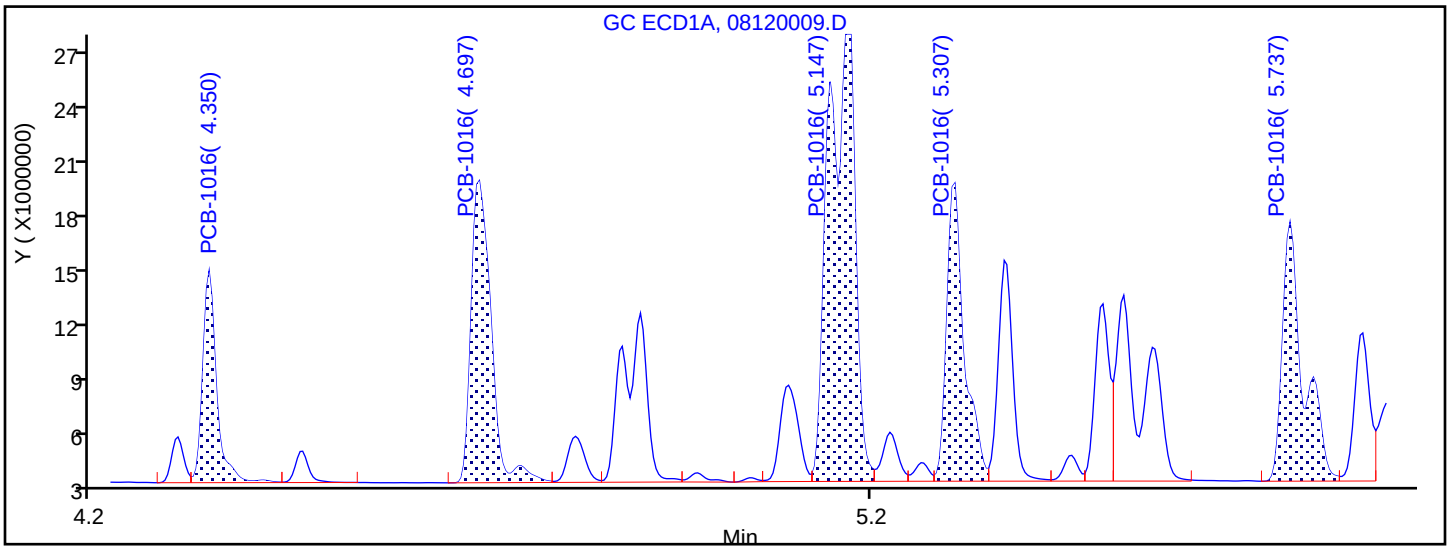
Data File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120009.D
Injection Date: 12-Aug-2022 12:44:34 Instrument ID: SGC_P3
Lims ID: ICIS
Client ID:
Operator ID: smp ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCB_P3 Limit Group: GCSV - 8082A - IS
Column: CLP1 Pesticides Column 1 (0.32 mm) Detector GC ECD1A

1 PCB-1016, CAS: 12674-11-2



Processing Integration Results

4.350	Response = 13589406
4.697	Response = 27875559
5.094	Response = 8172422
5.307	Response = 24280601
5.737	Response = 0



Manual Integration Results

4.350	Response = 13589406	
4.697	Response = 27875559	
5.147	Response = 56358320	M
5.307	Response = 24280601	
5.737	Response = 24983210	M

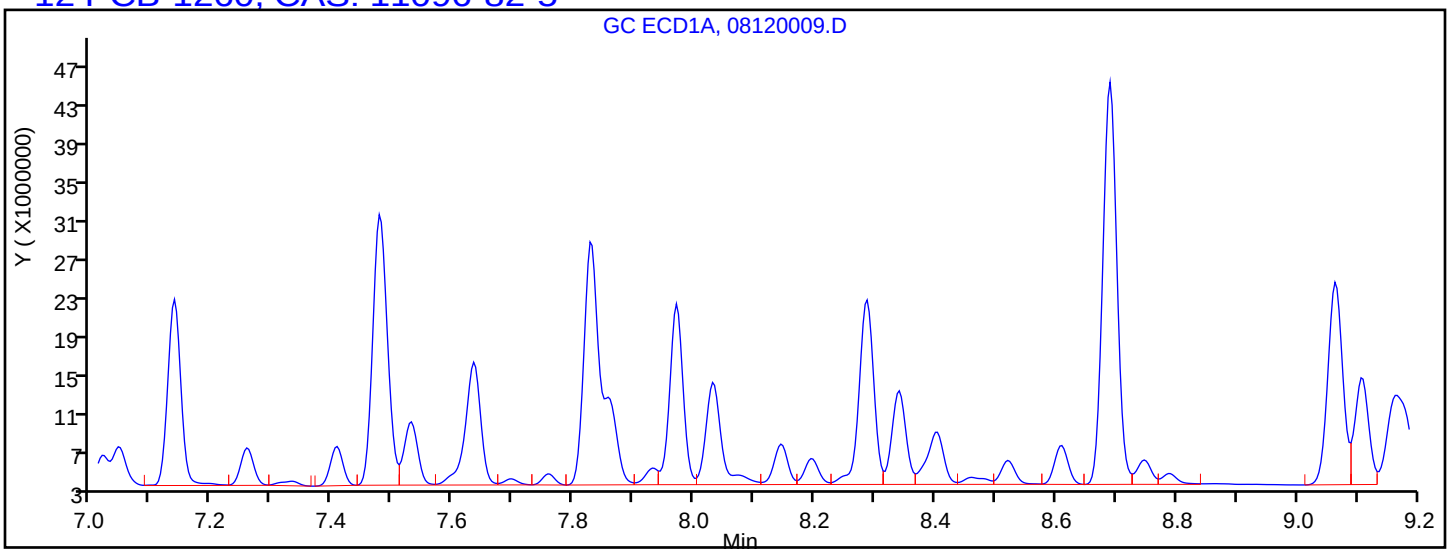
Reviewer: USP3, 15-Aug-2022 10:08:02
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Report Date: 15-Aug-2022 10:39:12 Chrom Revision: 2.3 08-Aug-2022 16:03:06

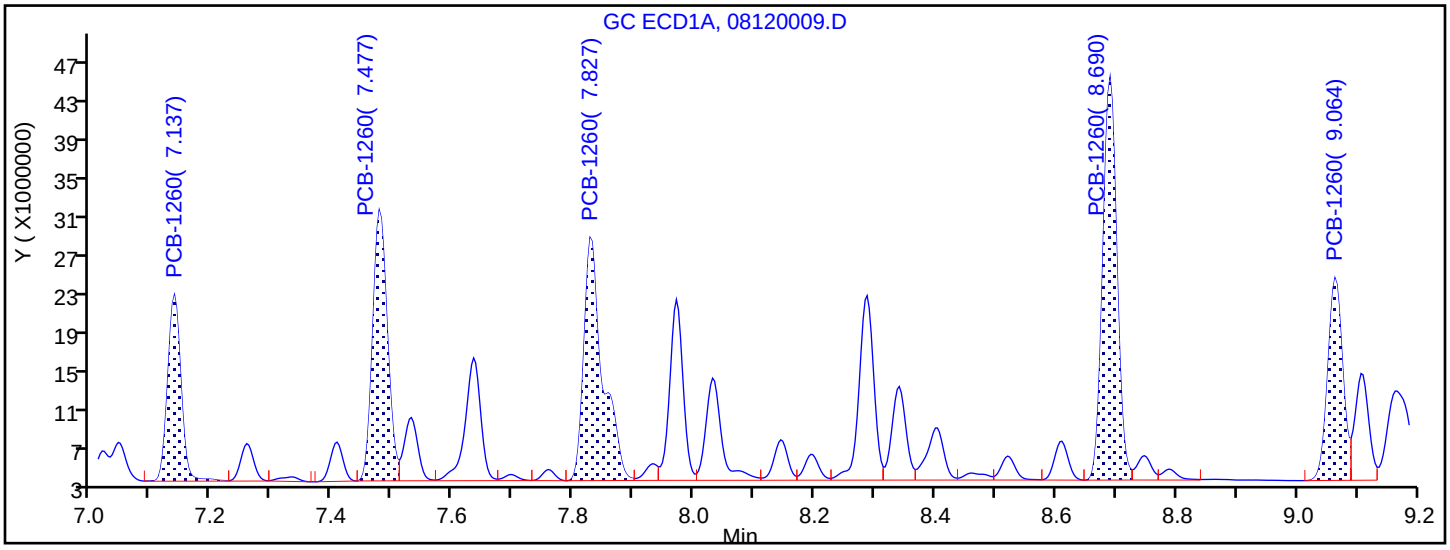
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120009.D				
Injection Date:	12-Aug-2022 12:44:34	Instrument ID:	SGC_P3		
Lims ID:	ICIS				
Client ID:					
Operator ID:	smp	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		
Column:	CLP1 Pesticides Column 1 (0.32 mm)	Detector	GC ECD1A		

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results



Manual Integration Results

7.137	Response = 29061489	M
7.477	Response = 46743609	M
7.827	Response = 53350513	M
8.690	Response = 66902720	M
9.064	Response = 35685638	M

Reviewer: USP3, 15-Aug-2022 10:09:30

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Denver

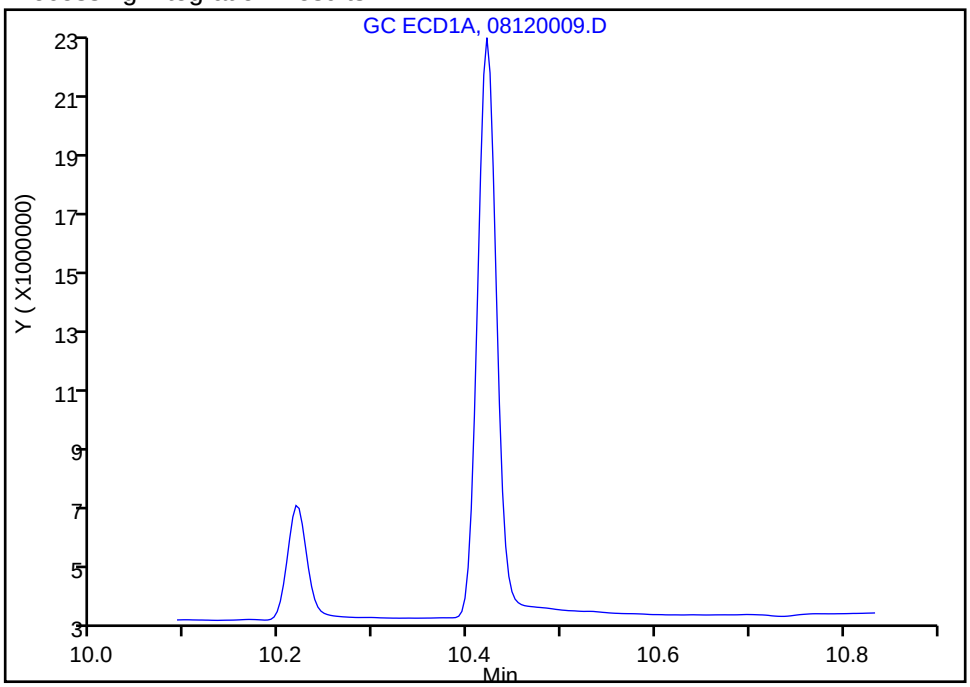
Data File:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120009.D				
Injection Date:	12-Aug-2022 12:44:34	Instrument ID:	SGC_P3		
Lims ID:	ICIS				
Client ID:					
Operator ID:	smp	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		
Column:	CLP1 Pesticides Column 1 (0.32 mm)	Detector	GC ECD1A		

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

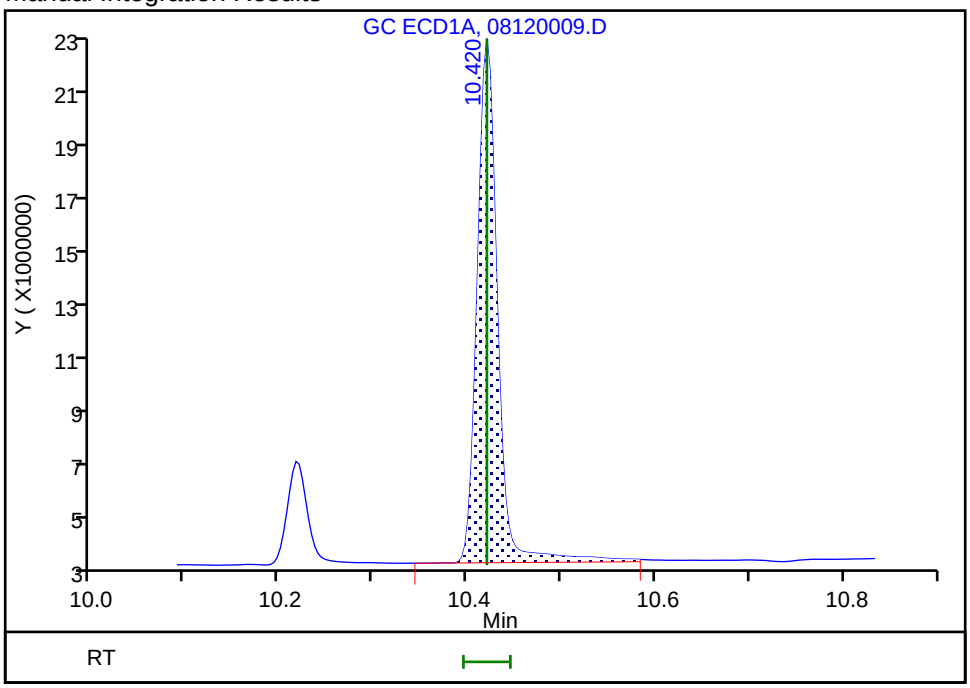
Not Detected
Expected RT: 10.42

Processing Integration Results



Manual Integration Results

RT: 10.42
Area: 27550847
Amount: 23.440933
Amount Units: ng/ml



Reviewer: USP3, 15-Aug-2022 10:10:42
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120010.D
Lims ID: STD4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 12-Aug-2022 13:04:08 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: STD4
Misc. Info.: 280-0113425-010
Operator ID: smp Instrument ID: SGC_P3
Sublist: chrom-PCB_P3*sub1

Method: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\PCB_P3.m
Limit Group: GCSV - 8082A - IS
Last Update: 15-Aug-2022 10:39:16 Calib Date: 12-Aug-2022 14:02:47
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120013.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
Process Host: CTX1649

First Level Reviewer: USP3 Date: 15-Aug-2022 10:14:11

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.207	3.207	0.000	136732171	100.0	100.0	
2	2.954	2.954	0.000	118230948	100.0	100.0	
						RPD = 0.00	
$ 14 Tetrachloro-m-xylene							
1	3.990	3.990	0.000	15689079	10.0	10.1	
2	3.844	3.844	0.000	13827577	10.0	10.3	
						RPD = 1.49	
1 PCB-1016							M
1	4.350	4.350	0.000	5997099	200.0	202.9	
1	4.697	4.697	0.000	12368277	200.0	216.3	
1	5.147	5.147	0.000	24656903	200.0	211.6	
1	5.307	5.307	0.000	10698945	200.0	213.3	
1	5.737	5.737	0.000	11053919	200.0	203.4	
		Average of Peak Amounts =				209.5	
2	4.290	4.290	0.000	5283060	200.0	221.2	
2	4.664	4.664	0.000	10319182	200.0	210.3	
2	5.107	5.090	0.017	22147356	200.0	210.4	M
2	5.240	5.240	0.000	8780449	200.0	205.2	
2	5.724	5.724	0.000	7077695	200.0	211.4	
		Average of Peak Amounts =				211.7	
						RPD = 1.06	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12 PCB-1260							
1	7.137	7.137	0.000	13127586	200.0	217.1	
1	7.477	7.477	0.000	20623301	200.0	214.0	
1	7.827	7.827	0.000	23548746	200.0	213.3	
1	8.690	8.690	0.000	29159201	200.0	207.7	
1	9.064	9.064	0.000	15460810	200.0	210.2	
		Average of Peak Amounts =				212.4	
2	7.174	7.174	0.000	11987444	200.0	207.3	
2	7.434	7.434	0.000	14742220	200.0	211.7	
2	7.880	7.884	-0.004	14222151	200.0	200.8	
2	8.710	8.710	0.000	26031581	200.0	205.4	
2	9.194	9.194	0.000	19326168	200.0	209.0	
		Average of Peak Amounts =				206.8	
						RPD = 2.67	
$ 15 DCB Decachlorobiphenyl							
1	10.420	10.420	0.000	12424612	10.0	10.3	
2	10.584	10.584	0.000	10806913	10.0	9.88	
						RPD = 4.11	
S 8 Polychlorinated biphenyls, Total							
1						421.9	
2						418.5	
						RPD = 0.80	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

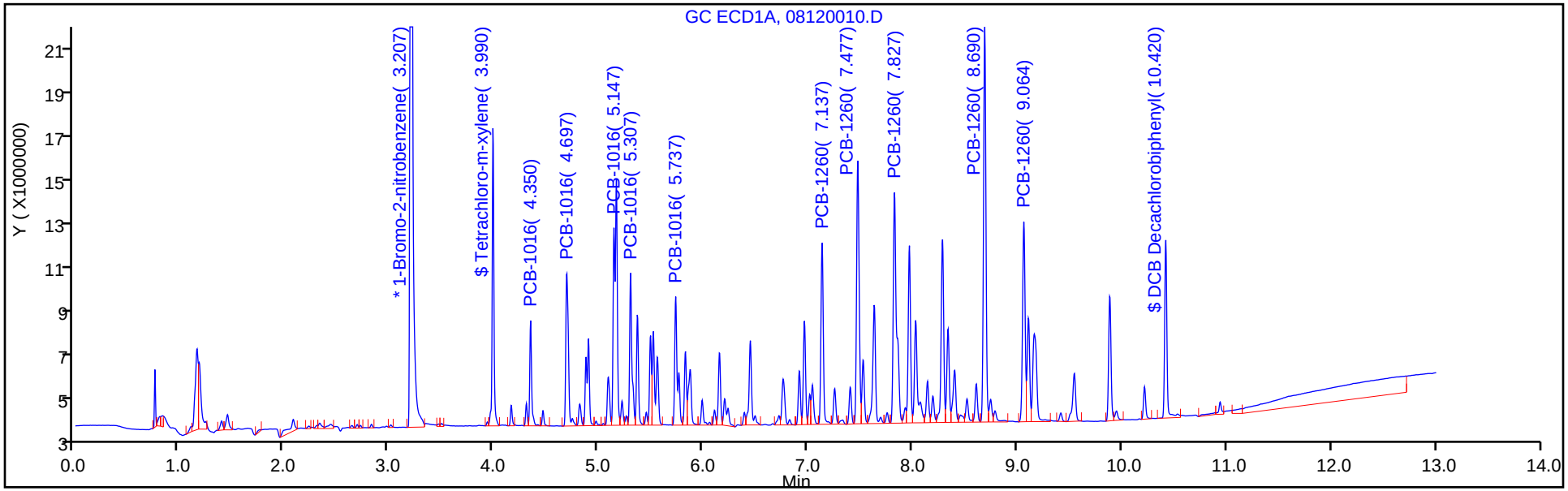
AR_1660_L7_00040	Amount Added: 40.00	Units: uL	
BNB IS_00022	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 15-Aug-2022 10:39:16 Chrom Revision: 2.3 08-Aug-2022 16:03:06

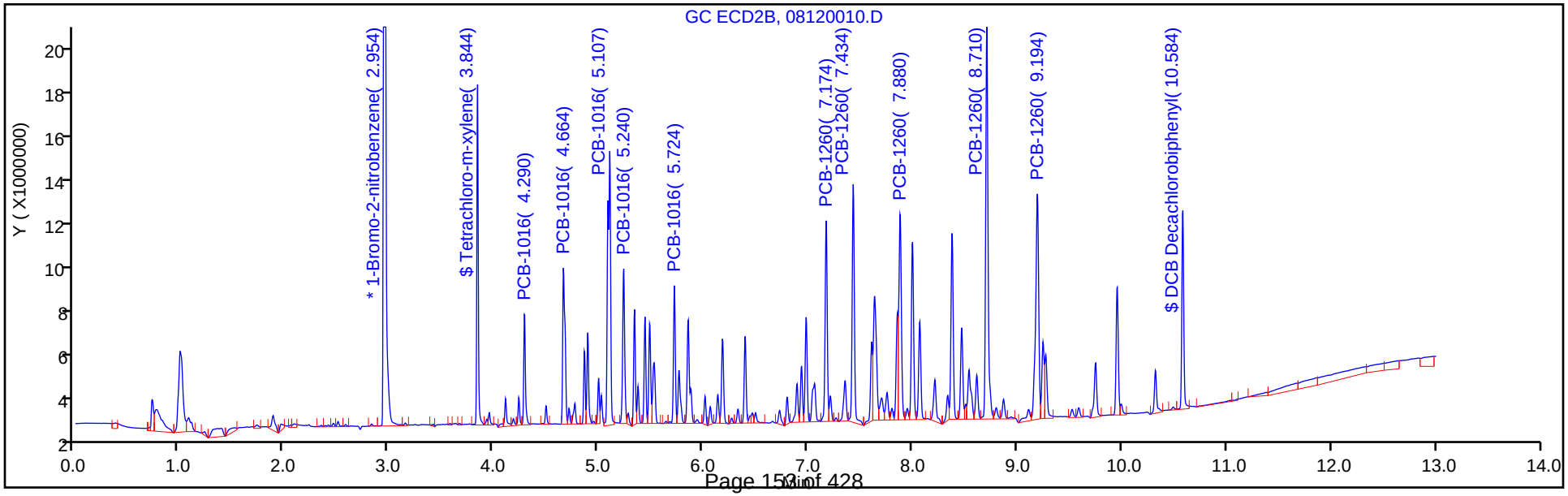
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120010.D				
Injection Date:	12-Aug-2022 13:04:08	Instrument ID:	SGC_P3	Operator ID:	smp
Lims ID:	STD4			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120011.D				
Lims ID:	STD3				
Client ID:					
Sample Type:	IC	Calib Level:	3		
Inject. Date:	12-Aug-2022 13:23:40	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	STD3				
Misc. Info.:	280-0113425-011				
Operator ID:	smp	Instrument ID:	SGC_P3		
Sublist:	chrom-PCB_P3*sub1				
Method:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\PCB_P3.m				
Limit Group:	GCSV - 8082A - IS				
Last Update:	15-Aug-2022 10:39:19	Calib Date:	12-Aug-2022 14:02:47		
Integrator:	Falcon				
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120013.D				
Column 1 :	CLP1 Pesticides Column 1 (0.32 mm)		Det: GC ECD1A		
Column 2 :	CLP2 Pesticides Column 2 (0.32 mm)		Det: GC ECD2B		
Process Host:	CTX1649				

First Level Reviewer: USP3 Date: 15-Aug-2022 10:14:18

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.206	3.207	-0.001	148880618	100.0	100.0	
2	2.953	2.954	-0.001	129177816	100.0	100.0	
						RPD = 0.00	
$ 14 Tetrachloro-m-xylene							
1	3.990	3.990	0.000	9021887	5.00	5.18	
2	3.843	3.844	-0.001	7932319	5.00	5.18	
						RPD = 0.02	
1 PCB-1016							M
1	4.350	4.350	0.000	3501676	100.0	108.8	
1	4.696	4.697	-0.001	7170705	100.0	110.9	
1	5.146	5.147	-0.001	14291038	100.0	108.5	
1	5.306	5.307	-0.001	6217378	100.0	109.6	
1	5.736	5.737	-0.001	6392420	100.0	108.0	
		Average of Peak Amounts =				109.2	
2	4.293	4.290	0.003	3206217	100.0	110.4	
2	4.663	4.664	-0.001	6115763	100.0	105.4	
2	5.106	5.090	0.016	12684597	100.0	106.1	M
2	5.240	5.240	0.000	5144416	100.0	105.5	
2	5.726	5.724	0.002	4184799	100.0	109.3	
		Average of Peak Amounts =				107.3	
						RPD = 1.67	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12 PCB-1260							
1	7.136	7.137	-0.001	7565922	100.0	110.2	
1	7.476	7.477	-0.001	11942829	100.0	106.3	
1	7.830	7.827	0.003	13600580	100.0	108.7	
1	8.690	8.690	0.000	17890677	100.0	112.1	
1	9.063	9.064	-0.001	9146502	100.0	109.7	
		Average of Peak Amounts =				109.4	
2	7.176	7.174	0.002	7120749	100.0	104.3	
2	7.433	7.434	-0.001	8500122	100.0	105.1	
2	7.883	7.884	-0.001	8623134	100.0	105.9	
2	8.710	8.710	0.000	15229020	100.0	103.6	
2	9.193	9.194	-0.001	11395955	100.0	105.8	
		Average of Peak Amounts =				104.9	
						RPD = 4.14	
$ 15 DCB Decachlorobiphenyl							
1	10.420	10.420	0.000	7015195	5.00	5.25	
2	10.583	10.584	-0.001	6306462	5.00	5.28	
						RPD = 0.47	
S 8 Polychlorinated biphenyls, Total							
1						218.5	
2						212.3	
						RPD = 2.90	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

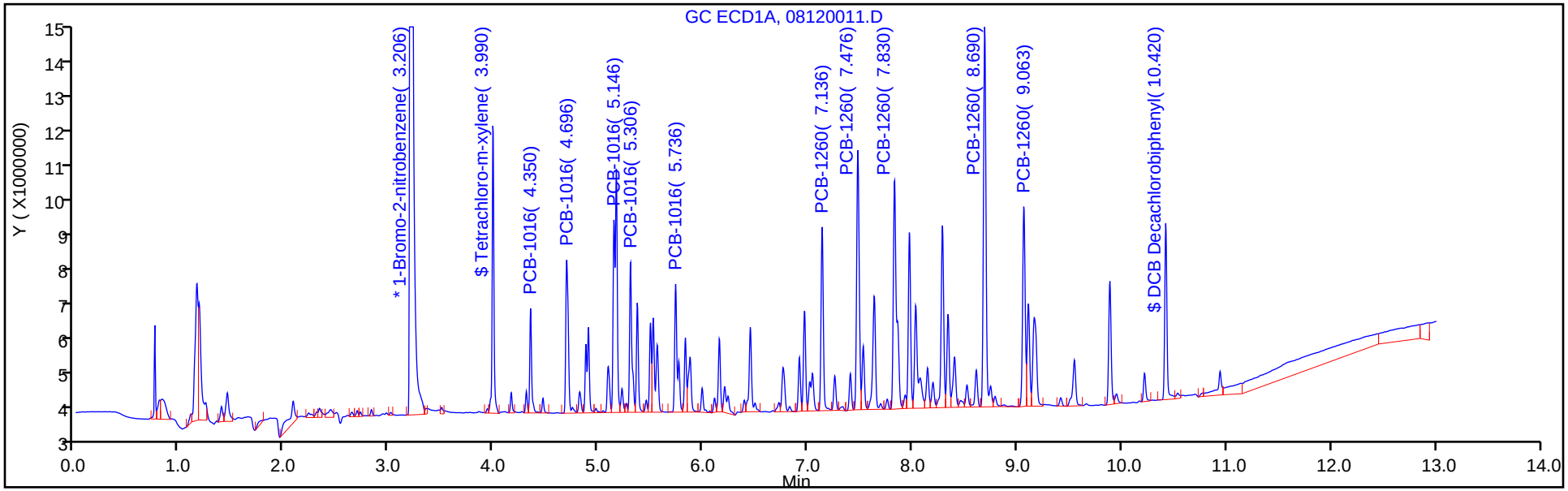
AR_1660_L7_00040	Amount Added: 20.00	Units: uL	
BNB IS_00022	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 15-Aug-2022 10:39:20 Chrom Revision: 2.3 08-Aug-2022 16:03:06

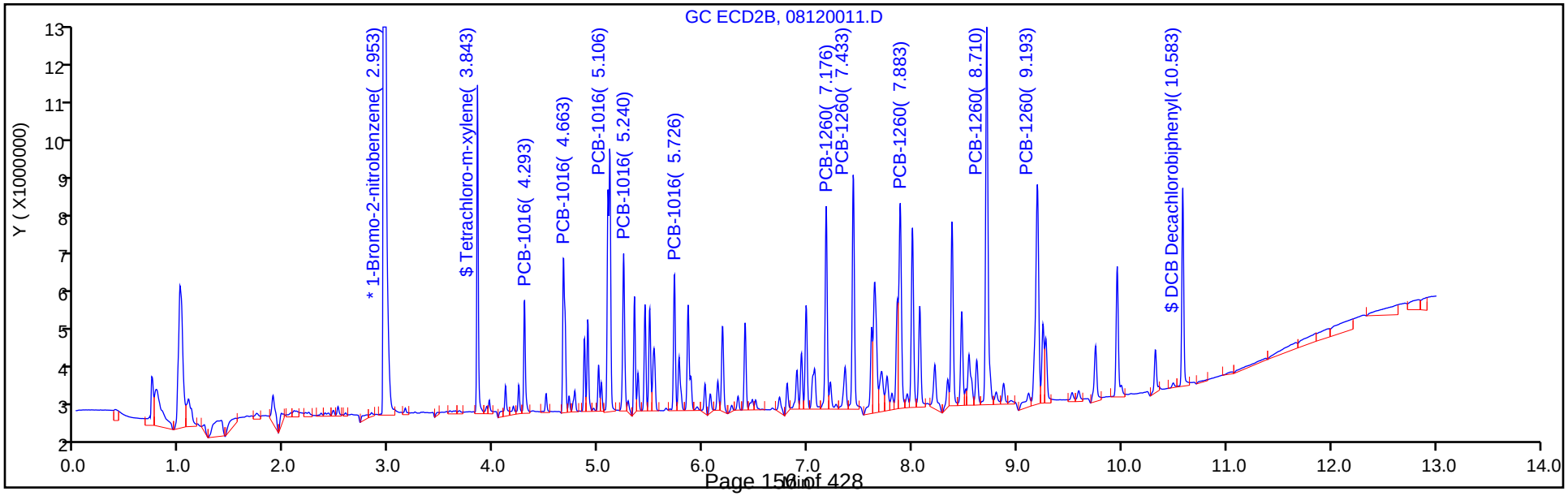
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120011.D				
Injection Date:	12-Aug-2022 13:23:40	Instrument ID:	SGC_P3	Operator ID:	smp
Lims ID:	STD3			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120012.D
Lims ID: STD2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 12-Aug-2022 13:43:10 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: STD2
Misc. Info.: 280-0113425-012
Operator ID: smp Instrument ID: SGC_P3
Sublist: chrom-PCB_P3*sub1

Method: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\PCB_P3.m
Limit Group: GCSV - 8082A - IS
Last Update: 15-Aug-2022 10:39:22 Calib Date: 12-Aug-2022 14:02:47
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120013.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
Process Host: CTX1649

First Level Reviewer: USP3 Date: 15-Aug-2022 10:14:25

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.206	3.207	-0.001	141681674	100.0	100.0	
2	2.952	2.954	-0.002	123252056	100.0	100.0	
						RPD = 0.00	
$ 14 Tetrachloro-m-xylene							
1	3.989	3.990	-0.001	4559939	2.50	2.58	
2	3.842	3.844	-0.002	4109892	2.50	2.60	
						RPD = 0.73	
1 PCB-1016							M
1	4.349	4.350	-0.001	1720144	50.0	56.2	
1	4.696	4.697	-0.001	3415874	50.0	50.9	
1	5.146	5.147	-0.001	7138970	50.0	52.7	
1	5.306	5.307	-0.001	3090684	50.0	52.9	
1	5.736	5.737	-0.001	3156985	50.0	56.0	
		Average of Peak Amounts =				53.8	
2	4.292	4.290	0.002	1772598	50.0	52.1	
2	4.666	4.664	0.002	3234146	50.0	50.0	
2	5.106	5.090	0.016	6357276	50.0	51.5	M
2	5.239	5.240	-0.001	2663819	50.0	52.8	M
2	5.726	5.724	0.002	2135914	50.0	53.3	
		Average of Peak Amounts =				52.0	
						RPD = 3.39	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12 PCB-1260							M
1	7.136	7.137	-0.001	3720606	50.0	52.1	
1	7.479	7.477	0.002	5907150	50.0	47.5	
1	7.829	7.827	0.002	6623885	50.0	50.9	
1	8.692	8.690	0.002	8773602	50.0	52.4	
1	9.066	9.064	0.002	4471426	50.0	51.5	
		Average of Peak Amounts =				50.9	
2	7.176	7.174	0.002	3686827	50.0	48.2	
2	7.436	7.434	0.002	4412687	50.0	50.8	
2	7.882	7.884	-0.002	4701163	50.0	55.1	M
2	8.709	8.710	-0.001	8116672	50.0	51.9	
2	9.196	9.194	0.002	6045877	50.0	52.1	
		Average of Peak Amounts =				51.6	
						RPD = 1.43	
$ 15 DCB Decachlorobiphenyl							
1	10.422	10.420	0.002	3267342	2.50	2.48	
2	10.582	10.584	-0.002	3458366	2.50	3.03	
						RPD = 20.08	
S 8 Polychlorinated biphenyls, Total							
1						104.6	
2						103.6	
						RPD = 1.02	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

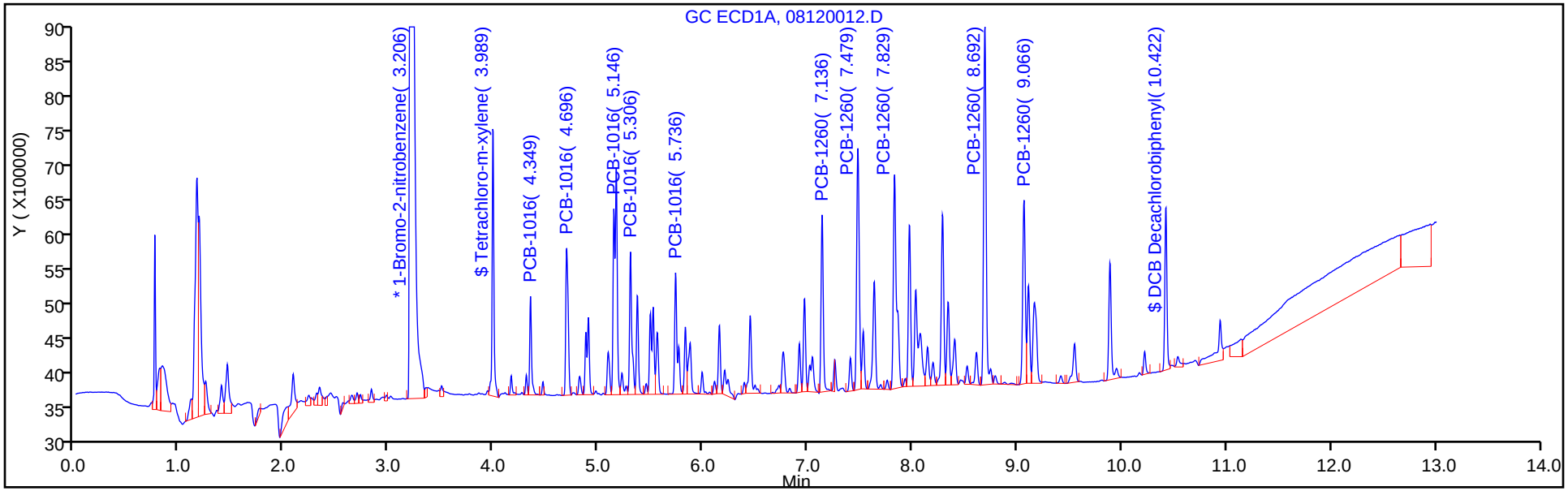
AR_1660_L7_00040	Amount Added: 10.00	Units: uL	
BNB IS_00022	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 15-Aug-2022 10:39:23 Chrom Revision: 2.3 08-Aug-2022 16:03:06

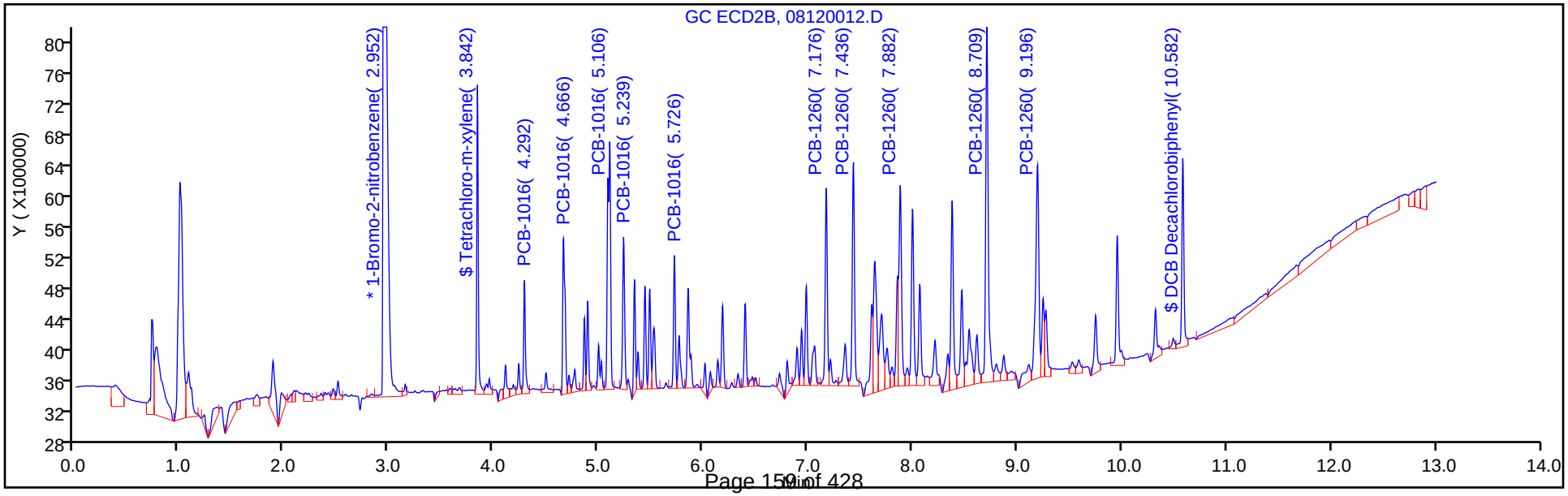
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120012.D				
Injection Date:	12-Aug-2022 13:43:10	Instrument ID:	SGC_P3	Operator ID:	smp
Lims ID:	STD2			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120013.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 12-Aug-2022 14:02:47 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: STD1
Misc. Info.: 280-0113425-013
Operator ID: smp Instrument ID: SGC_P3
Sublist: chrom-PCB_P3*sub1

Method: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\PCB_P3.m
Limit Group: GCSV - 8082A - IS
Last Update: 15-Aug-2022 10:38:51 Calib Date: 12-Aug-2022 14:02:47
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120013.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
Process Host: CTX1649

First Level Reviewer: USP3 Date: 15-Aug-2022 10:14:31

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.206	3.207	-0.001	140031173	100.0	100.0	
2	2.953	2.954	-0.001	121209810	100.0	100.0	
						RPD = 0.00	
$ 14 Tetrachloro-m-xylene							
1	3.990	3.990	0.000	2424388	1.25	1.22	
2	3.843	3.844	-0.001	2212549	1.25	1.21	
						RPD = 0.66	
1 PCB-1016							M
1	4.350	4.350	0.000	896785	25.0	29.6	
1	4.696	4.697	-0.001	1858778	25.0	23.9	
1	5.170	5.147	0.023	3729627	25.0	23.7	
1	5.306	5.307	-0.001	1607900	25.0	23.6	
1	5.736	5.737	-0.001	1644345	25.0	29.5	
		Average of Peak Amounts =				26.1	
2	4.293	4.290	0.003	1008049	25.0	18.3	
2	4.663	4.664	-0.001	2002273	25.0	24.5	
2	5.106	5.090	0.016	3421282	25.0	24.2	M
2	5.240	5.240	0.000	1409262	25.0	23.9	M
2	5.723	5.724	-0.001	1127193	25.0	23.5	
		Average of Peak Amounts =				22.9	
						RPD = 13.04	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12 PCB-1260							M
1	7.136	7.137	-0.001	1998625	25.0	23.7	
1	7.476	7.477	-0.001	3774535	25.0	25.0	
1	7.830	7.827	0.003	3646365	25.0	24.1	
1	8.690	8.690	0.000	4751322	25.0	23.6	
1	9.063	9.064	-0.001	2436059	25.0	23.9	M
		Average of Peak Amounts =				24.1	
2	7.176	7.174	0.002	2363427	25.0	25.1	
2	7.436	7.434	0.002	2572711	25.0	24.4	
2	7.883	7.884	-0.001	2456004	25.0	23.4	M
2	8.710	8.710	0.000	4618496	25.0	24.3	
2	9.193	9.194	-0.001	3471830	25.0	24.0	
		Average of Peak Amounts =				24.2	
						RPD = 0.60	
$ 15 DCB Decachlorobiphenyl							
1	10.420	10.420	0.000	1722187	1.25	1.24	
2	10.583	10.584	-0.001	1653289	1.25	1.47	
						RPD = 17.35	
S 8 Polychlorinated biphenyls, Total							
1						50.2	
2						47.1	
						RPD = 6.27	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

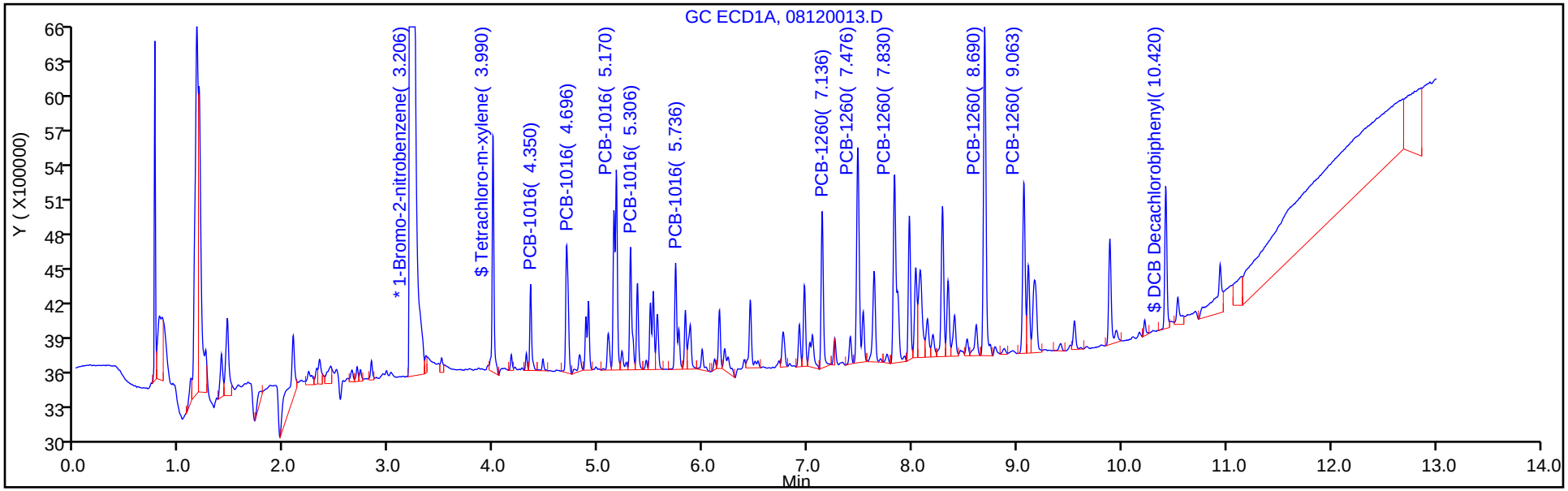
AR_1660_L7_00040	Amount Added: 5.00	Units: uL	
BNB IS_00022	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 15-Aug-2022 10:38:51 Chrom Revision: 2.3 08-Aug-2022 16:03:06

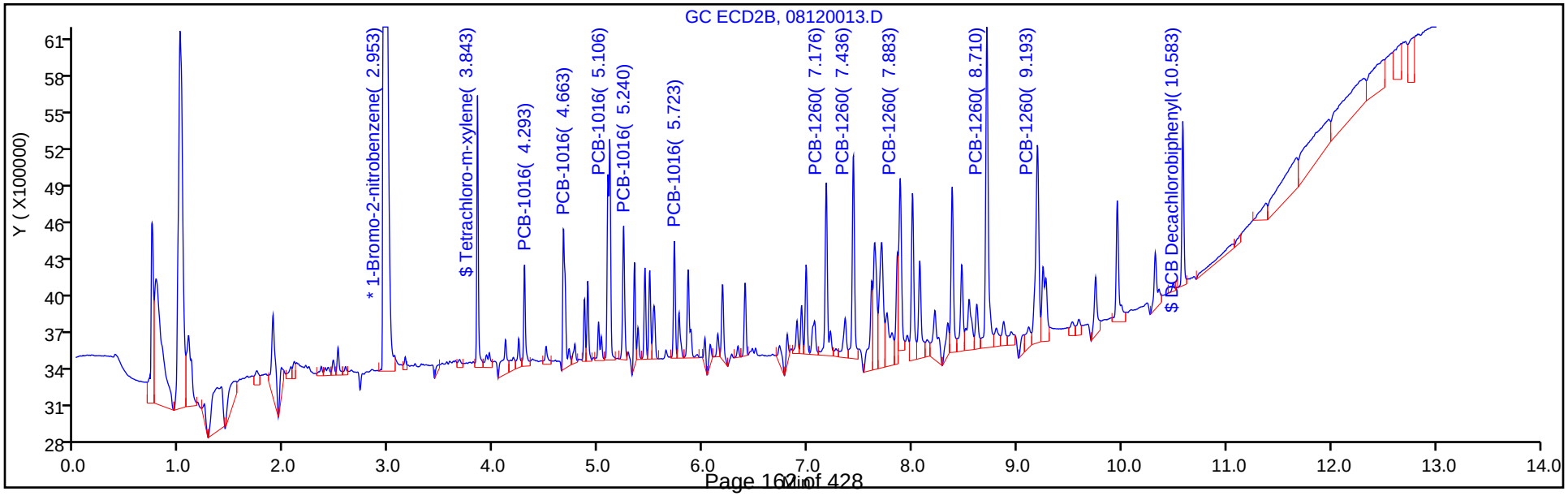
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120013.D				
Injection Date:	12-Aug-2022 14:02:47	Instrument ID:	SGC_P3	Operator ID:	smp
Lims ID:	STD1			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2

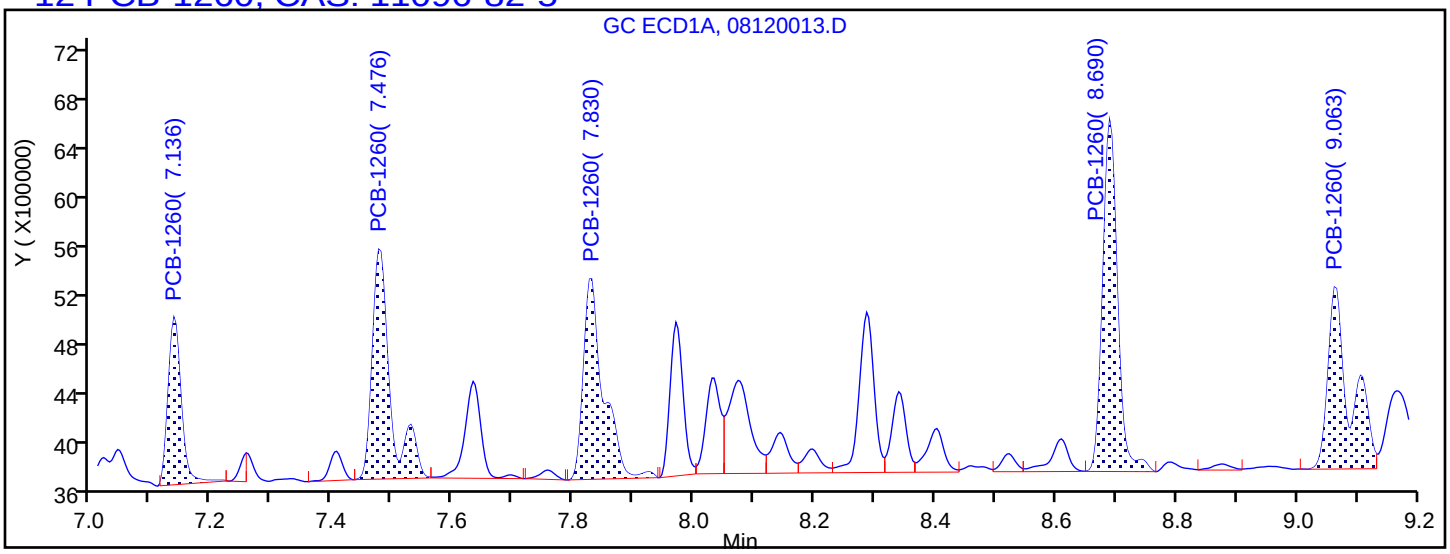


Report Date: 15-Aug-2022 10:38:51 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Denver

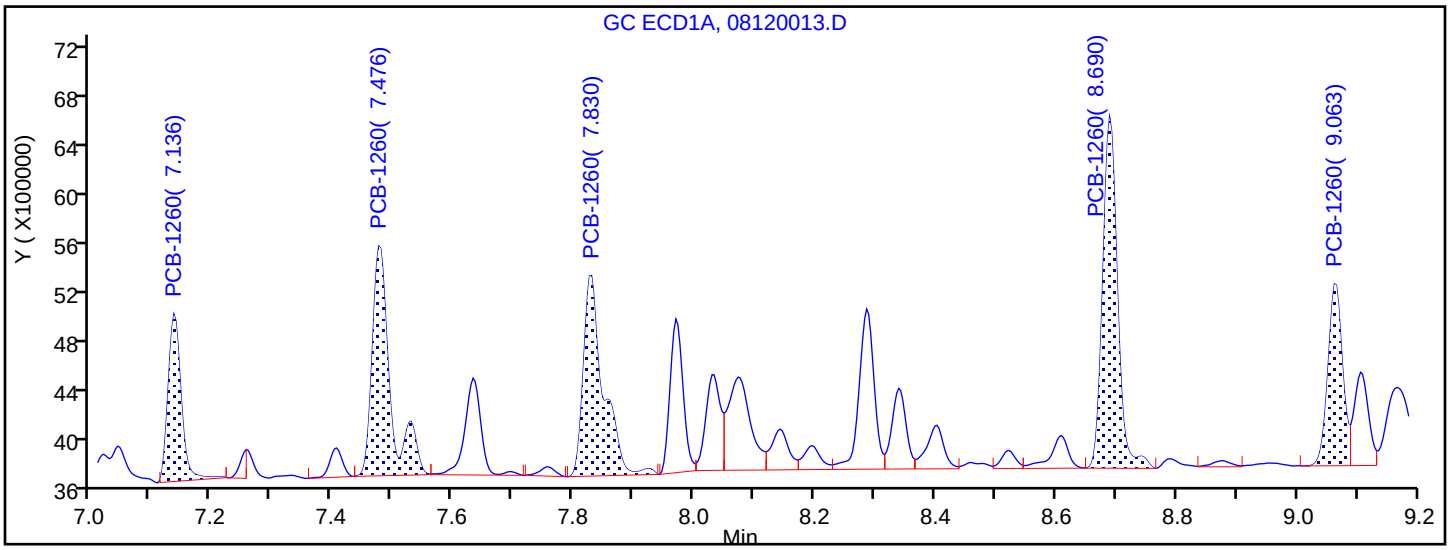
Data File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120013.D
Injection Date: 12-Aug-2022 14:02:47 Instrument ID: SGC_P3
Lims ID: STD1
Client ID:
Operator ID: smp ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCB_P3 Limit Group: GCSV - 8082A - IS
Column: CLP1 Pesticides Column 1 (0.32 mm) Detector GC ECD1A

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

7.136	Response = 1998625
7.476	Response = 3774535
7.830	Response = 3646365
8.690	Response = 4751322
9.063	Response = 3657994



Manual Integration Results

7.136	Response = 1998625	
7.476	Response = 3774535	
7.830	Response = 3646365	
8.690	Response = 4751322	
9.063	Response = 2436059	M

Reviewer: USP3, 15-Aug-2022 10:23:32
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Calibration / Tetrachloro-m-xylene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

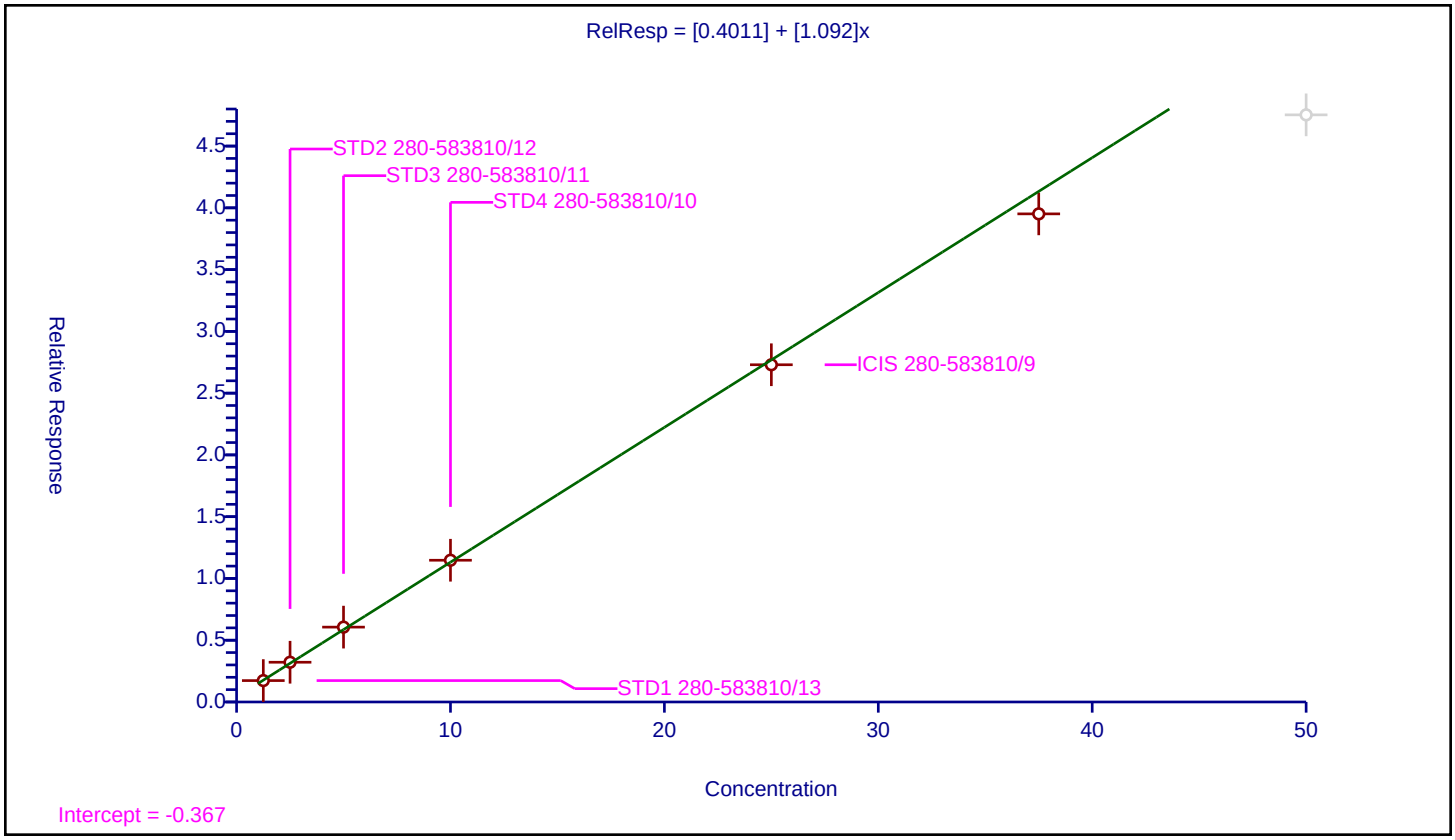
Curve Coefficients

Intercept:	0.4011
Slope:	1.092

Error Coefficients

Standard Error:	37200000
Relative Standard Error:	3.7
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-583810/13	1.25	1.73132	100.0	140031173.0	1.385056	Y
2	STD2 280-583810/12	2.5	3.21844	100.0	141681674.0	1.287376	Y
3	STD3 280-583810/11	5.0	6.059813	100.0	148880618.0	1.211963	Y
4	STD4 280-583810/10	10.0	11.474314	100.0	136732171.0	1.147431	Y
5	ICIS 280-583810/9	25.0	27.299313	100.0	134424573.0	1.091973	Y
6	STD6 280-583810/8	37.5	39.512204	100.0	156551147.0	1.053659	Y
7	STD7 280-583810/7	50.0	47.526936	100.0	137906979.0	0.950539	N



Calibration / PCB-1016 Peak 1

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

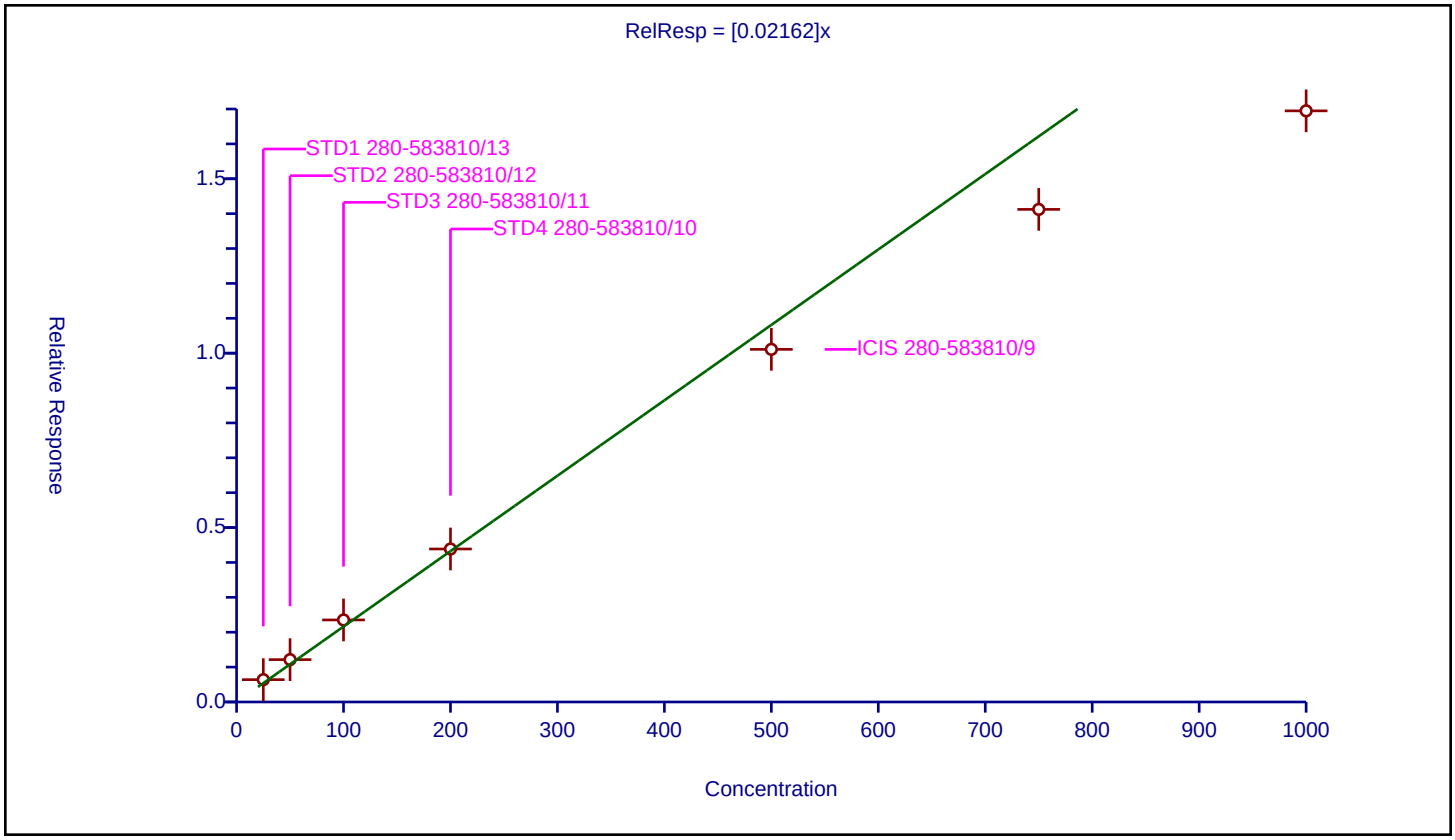
Curve Coefficients

Intercept:	0
Slope:	0.02162

Error Coefficients

Standard Error:	14600000
Relative Standard Error:	14.4
Correlation Coefficient:	0.976
Coefficient of Determination (Adjusted):	0.963

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-583810/13	25.0	0.640418	100.0	140031173.0	0.025617	Y
2	STD2 280-583810/12	50.0	1.214091	100.0	141681674.0	0.024282	Y
3	STD3 280-583810/11	100.0	2.352003	100.0	148880618.0	0.02352	Y
4	STD4 280-583810/10	200.0	4.386019	100.0	136732171.0	0.02193	Y
5	ICIS 280-583810/9	500.0	10.109317	100.0	134424573.0	0.020219	Y
6	STD6 280-583810/8	750.0	14.122265	100.0	156551147.0	0.01883	Y
7	STD7 280-583810/7	1000.0	16.946951	100.0	137906979.0	0.016947	Y



Calibration / PCB-1016 Peak 2

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

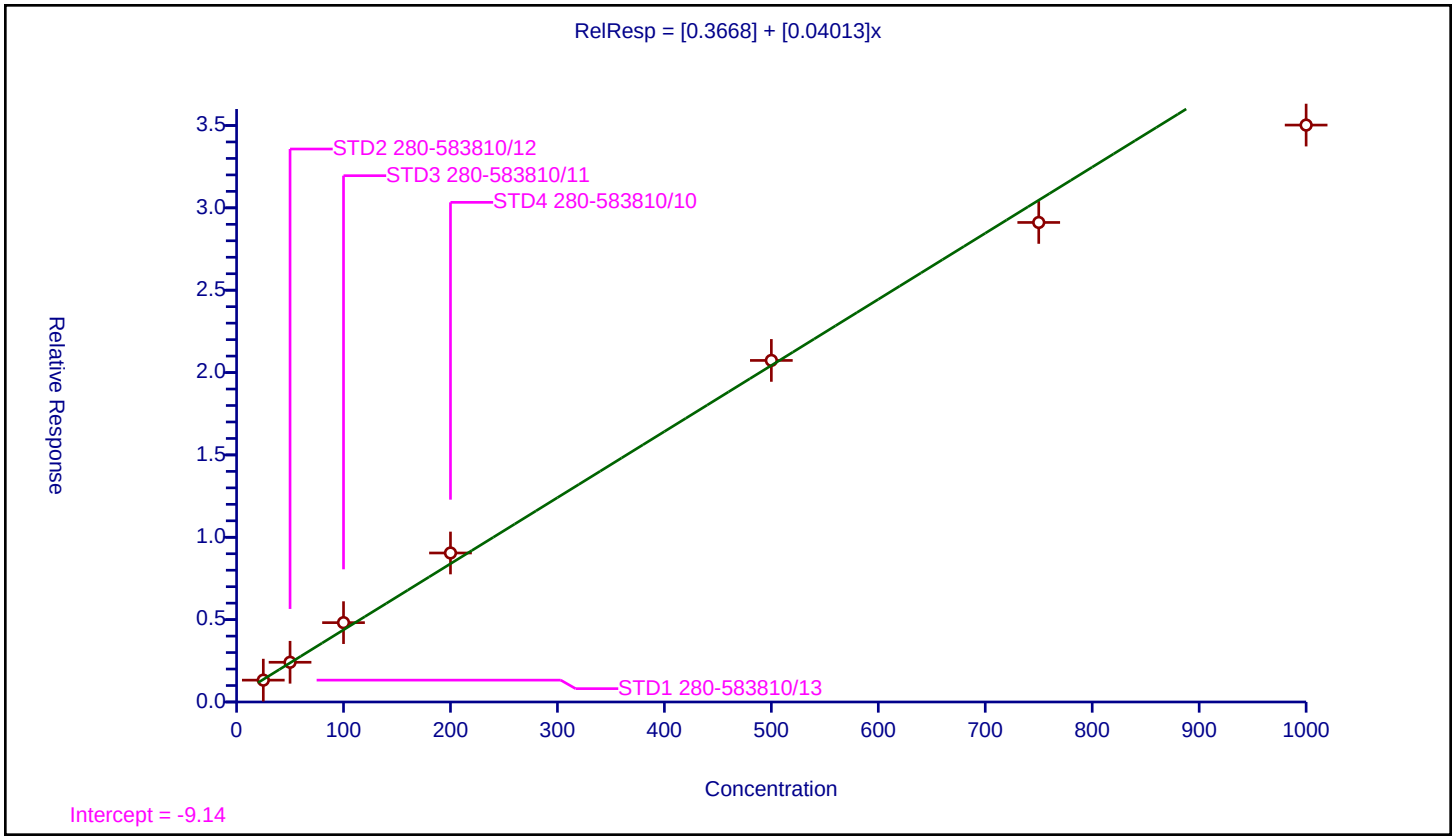
Curve Coefficients

Intercept:	0.3668
Slope:	0.04013

Error Coefficients

Standard Error:	32900000
Relative Standard Error:	9.1
Correlation Coefficient:	0.977
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-583810/13	25.0	1.327403	100.0	140031173.0	0.053096	Y
2	STD2 280-583810/12	50.0	2.41095	100.0	141681674.0	0.048219	Y
3	STD3 280-583810/11	100.0	4.816413	100.0	148880618.0	0.048164	Y
4	STD4 280-583810/10	200.0	9.045623	100.0	136732171.0	0.045228	Y
5	ICIS 280-583810/9	500.0	20.736952	100.0	134424573.0	0.041474	Y
6	STD6 280-583810/8	750.0	29.112295	100.0	156551147.0	0.038816	Y
7	STD7 280-583810/7	1000.0	35.02508	100.0	137906979.0	0.035025	Y



Calibration / PCB-1016 Peak 3

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

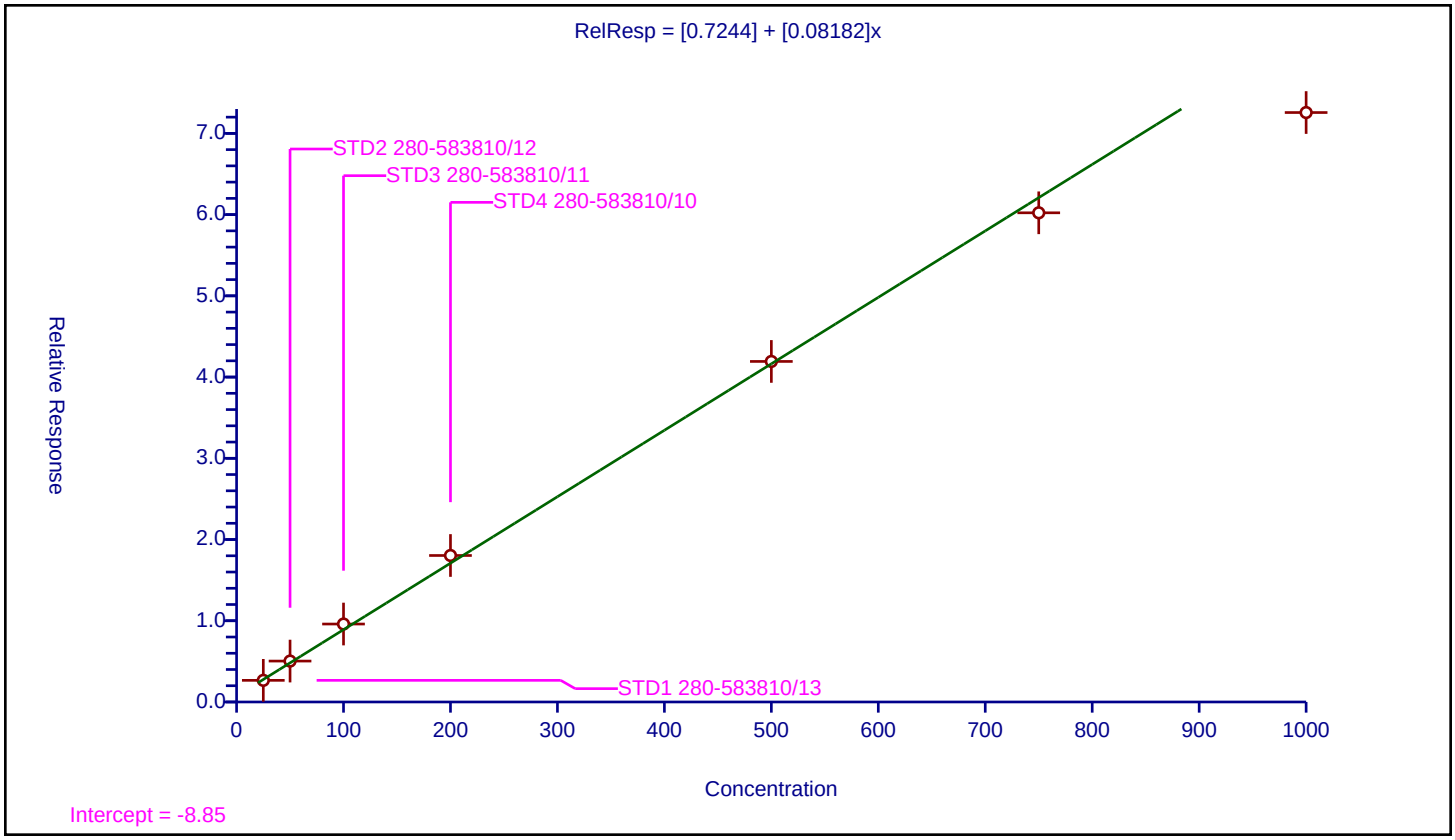
Curve Coefficients

Intercept:	0.7244
Slope:	0.08182

Error Coefficients

Standard Error:	67800000
Relative Standard Error:	8.0
Correlation Coefficient:	0.978
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-583810/13	25.0	2.663426	100.0	140031173.0	0.106537	Y
2	STD2 280-583810/12	50.0	5.038739	100.0	141681674.0	0.100775	Y
3	STD3 280-583810/11	100.0	9.598992	100.0	148880618.0	0.09599	Y
4	STD4 280-583810/10	200.0	18.032993	100.0	136732171.0	0.090165	Y
5	ICIS 280-583810/9	500.0	41.925608	100.0	134424573.0	0.083851	Y
6	STD6 280-583810/8	750.0	60.222775	100.0	156551147.0	0.080297	Y
7	STD7 280-583810/7	1000.0	72.566649	100.0	137906979.0	0.072567	Y



Calibration / PCB-1016 Peak 4

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

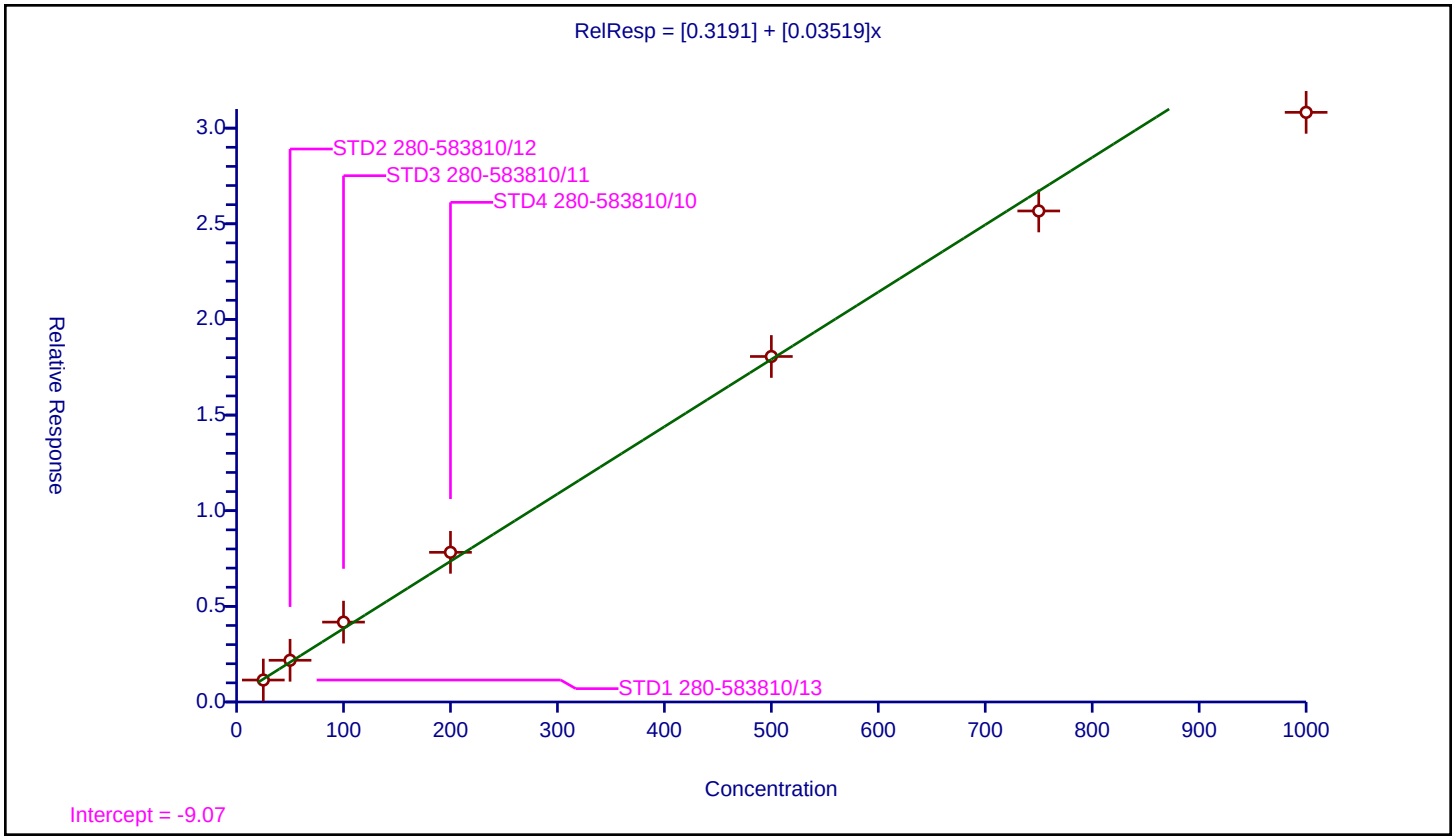
Curve Coefficients

Intercept:	0.3191
Slope:	0.03519

Error Coefficients

Standard Error:	28900000
Relative Standard Error:	8.9
Correlation Coefficient:	0.977
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-583810/13	25.0	1.148244	100.0	140031173.0	0.04593	Y
2	STD2 280-583810/12	50.0	2.181428	100.0	141681674.0	0.043629	Y
3	STD3 280-583810/11	100.0	4.176083	100.0	148880618.0	0.041761	Y
4	STD4 280-583810/10	200.0	7.824746	100.0	136732171.0	0.039124	Y
5	ICIS 280-583810/9	500.0	18.062621	100.0	134424573.0	0.036125	Y
6	STD6 280-583810/8	750.0	25.670102	100.0	156551147.0	0.034227	Y
7	STD7 280-583810/7	1000.0	30.826306	100.0	137906979.0	0.030826	Y



Calibration / PCB-1016 Peak 5

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

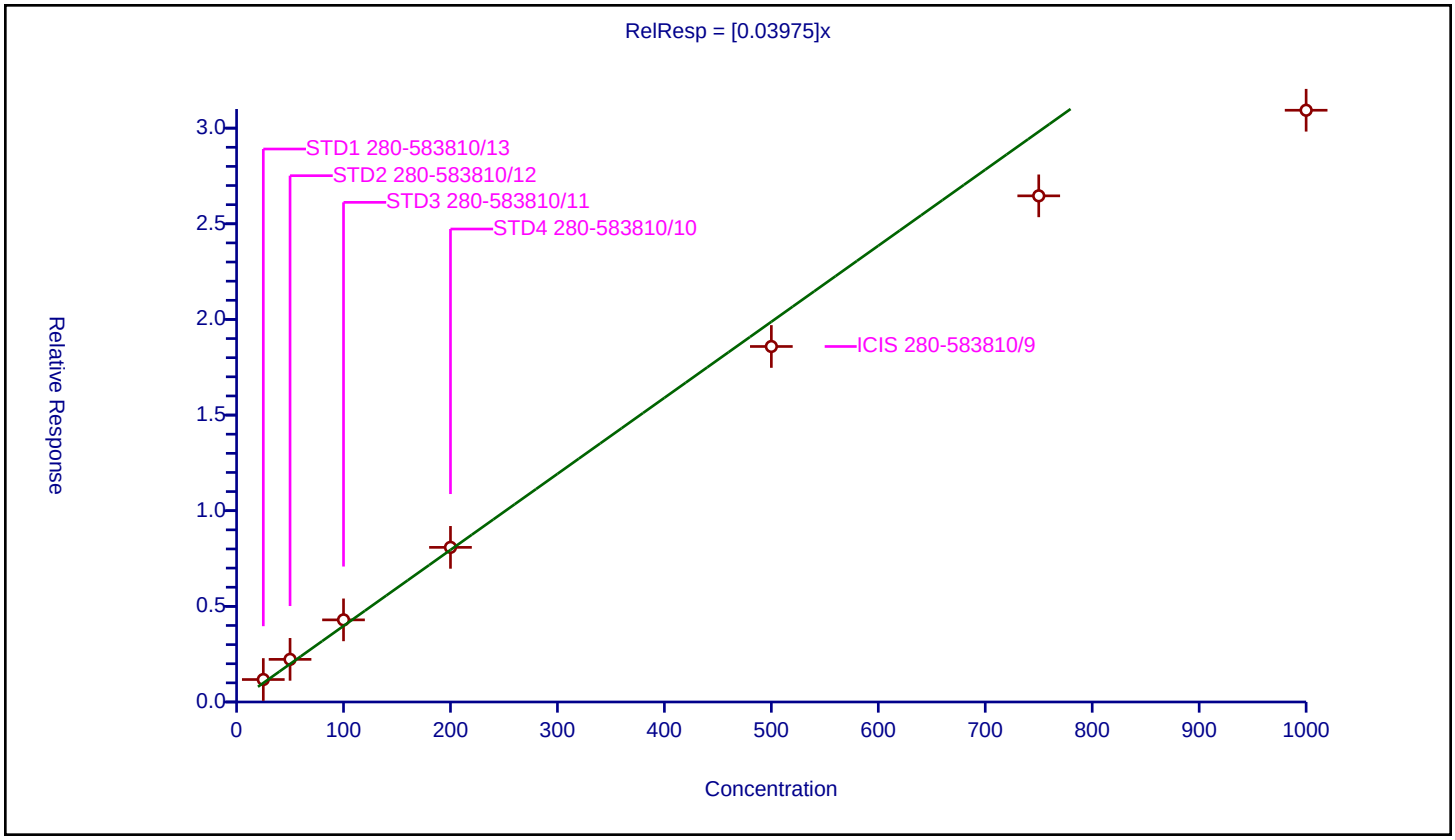
Curve Coefficients

Intercept:	0
Slope:	0.03975

Error Coefficients

Standard Error:	26900000
Relative Standard Error:	14.2
Correlation Coefficient:	0.971
Coefficient of Determination (Adjusted):	0.964

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-583810/13	25.0	1.174271	100.0	140031173.0	0.046971	Y
2	STD2 280-583810/12	50.0	2.228224	100.0	141681674.0	0.044564	Y
3	STD3 280-583810/11	100.0	4.293655	100.0	148880618.0	0.042937	Y
4	STD4 280-583810/10	200.0	8.084359	100.0	136732171.0	0.040422	Y
5	ICIS 280-583810/9	500.0	18.5853	100.0	134424573.0	0.037171	Y
6	STD6 280-583810/8	750.0	26.460127	100.0	156551147.0	0.03528	Y
7	STD7 280-583810/7	1000.0	30.935881	100.0	137906979.0	0.030936	Y



Calibration / PCB-1260 Peak 1

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

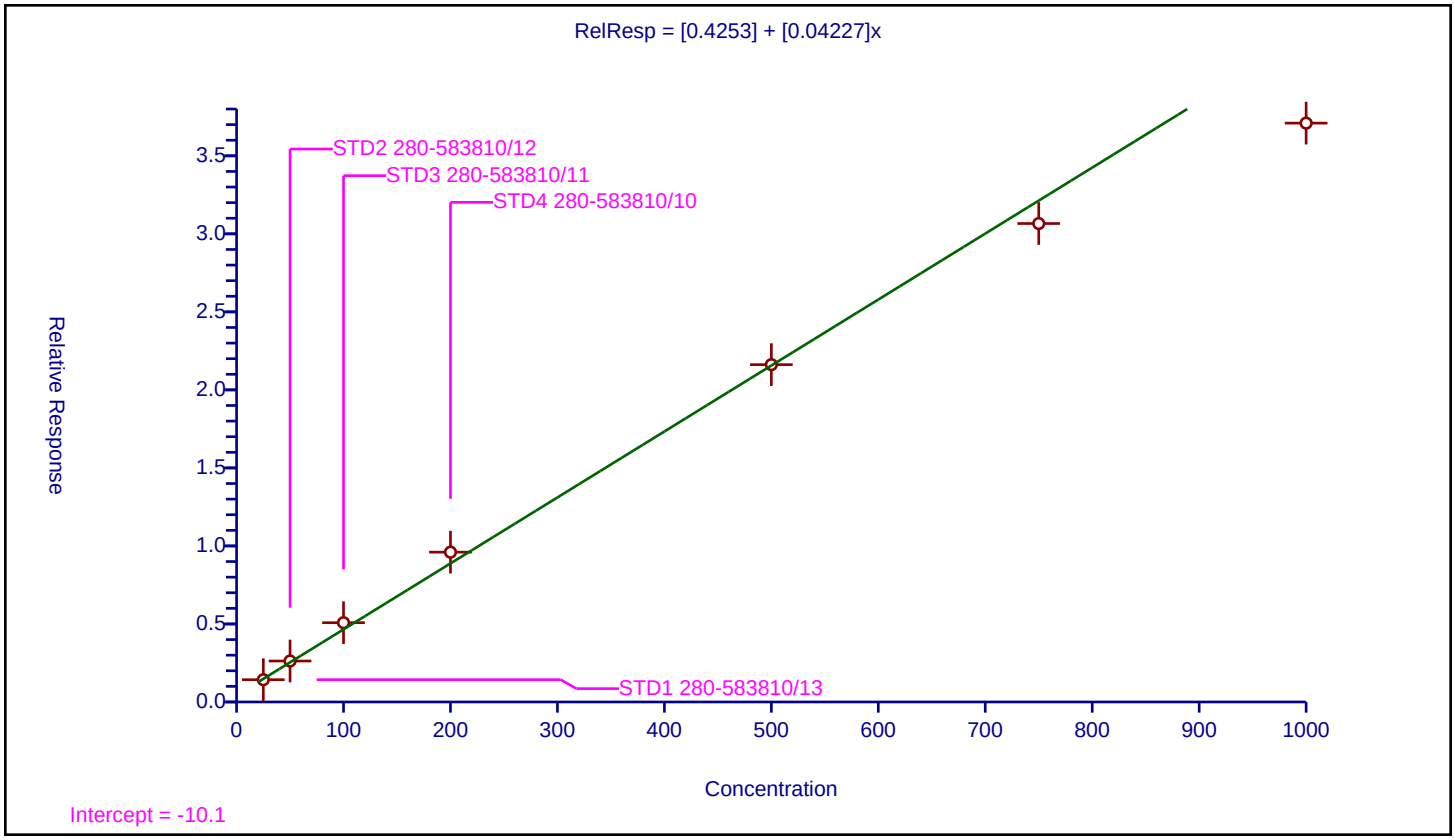
Curve Coefficients

Intercept:	0.4253
Slope:	0.04227

Error Coefficients

Standard Error:	34700000
Relative Standard Error:	9.1
Correlation Coefficient:	0.978
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-583810/13	25.0	1.427271	100.0	140031173.0	0.057091	Y
2	STD2 280-583810/12	50.0	2.626032	100.0	141681674.0	0.052521	Y
3	STD3 280-583810/11	100.0	5.081872	100.0	148880618.0	0.050819	Y
4	STD4 280-583810/10	200.0	9.600949	100.0	136732171.0	0.048005	Y
5	ICIS 280-583810/9	500.0	21.619179	100.0	134424573.0	0.043238	Y
6	STD6 280-583810/8	750.0	30.662058	100.0	156551147.0	0.040883	Y
7	STD7 280-583810/7	1000.0	37.095582	100.0	137906979.0	0.037096	Y



Calibration / PCB-1260 Peak 2

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

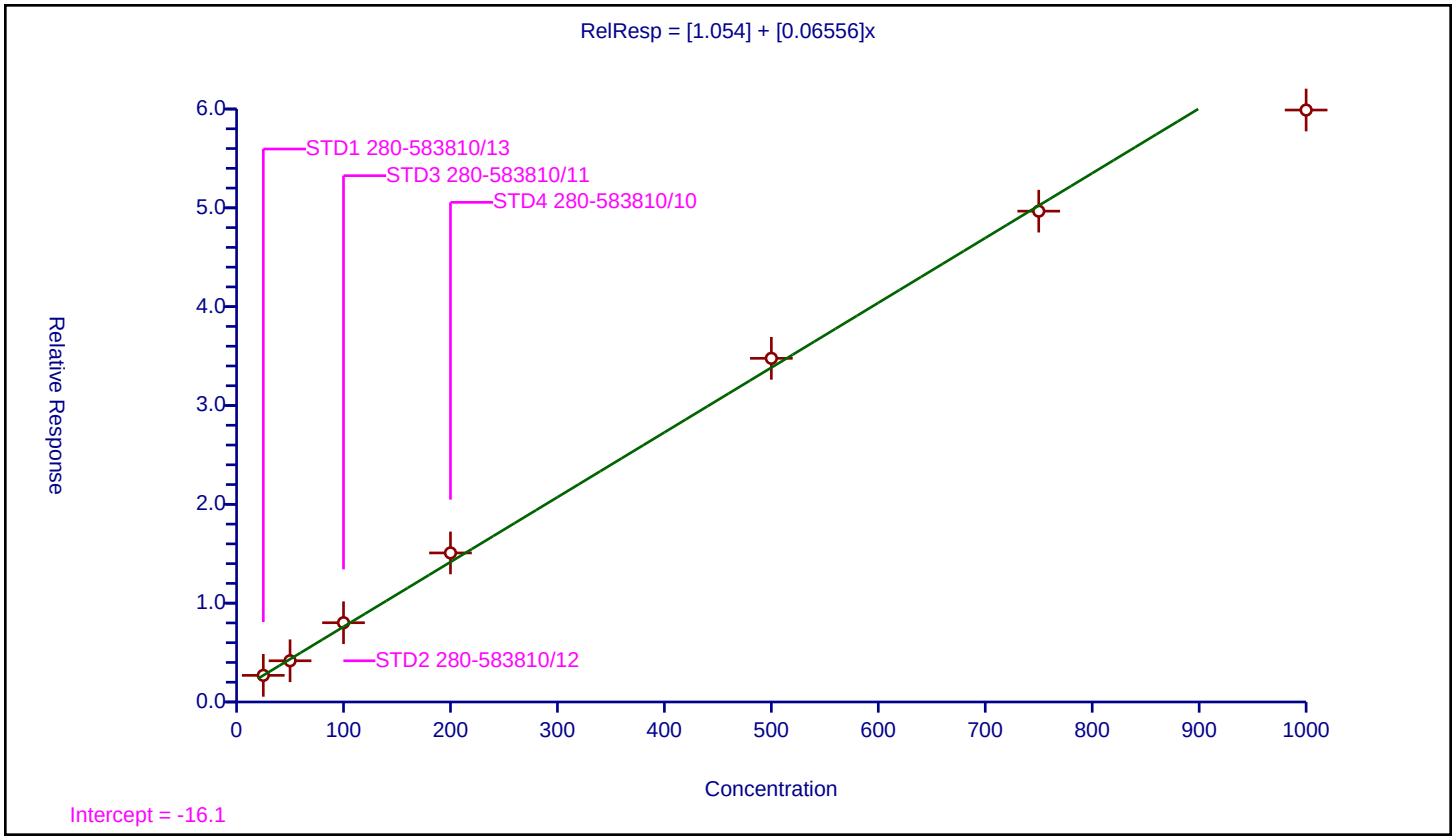
Curve Coefficients

Intercept:	1.054
Slope:	0.06556

Error Coefficients

Standard Error:	56000000
Relative Standard Error:	6.7
Correlation Coefficient:	0.978
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-583810/13	25.0	2.695496	100.0	140031173.0	0.10782	Y
2	STD2 280-583810/12	50.0	4.169311	100.0	141681674.0	0.083386	Y
3	STD3 280-583810/11	100.0	8.021749	100.0	148880618.0	0.080217	Y
4	STD4 280-583810/10	200.0	15.082991	100.0	136732171.0	0.075415	Y
5	ICIS 280-583810/9	500.0	34.773113	100.0	134424573.0	0.069546	Y
6	STD6 280-583810/8	750.0	49.665502	100.0	156551147.0	0.066221	Y
7	STD7 280-583810/7	1000.0	59.898053	100.0	137906979.0	0.059898	Y



Calibration / PCB-1260 Peak 3

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

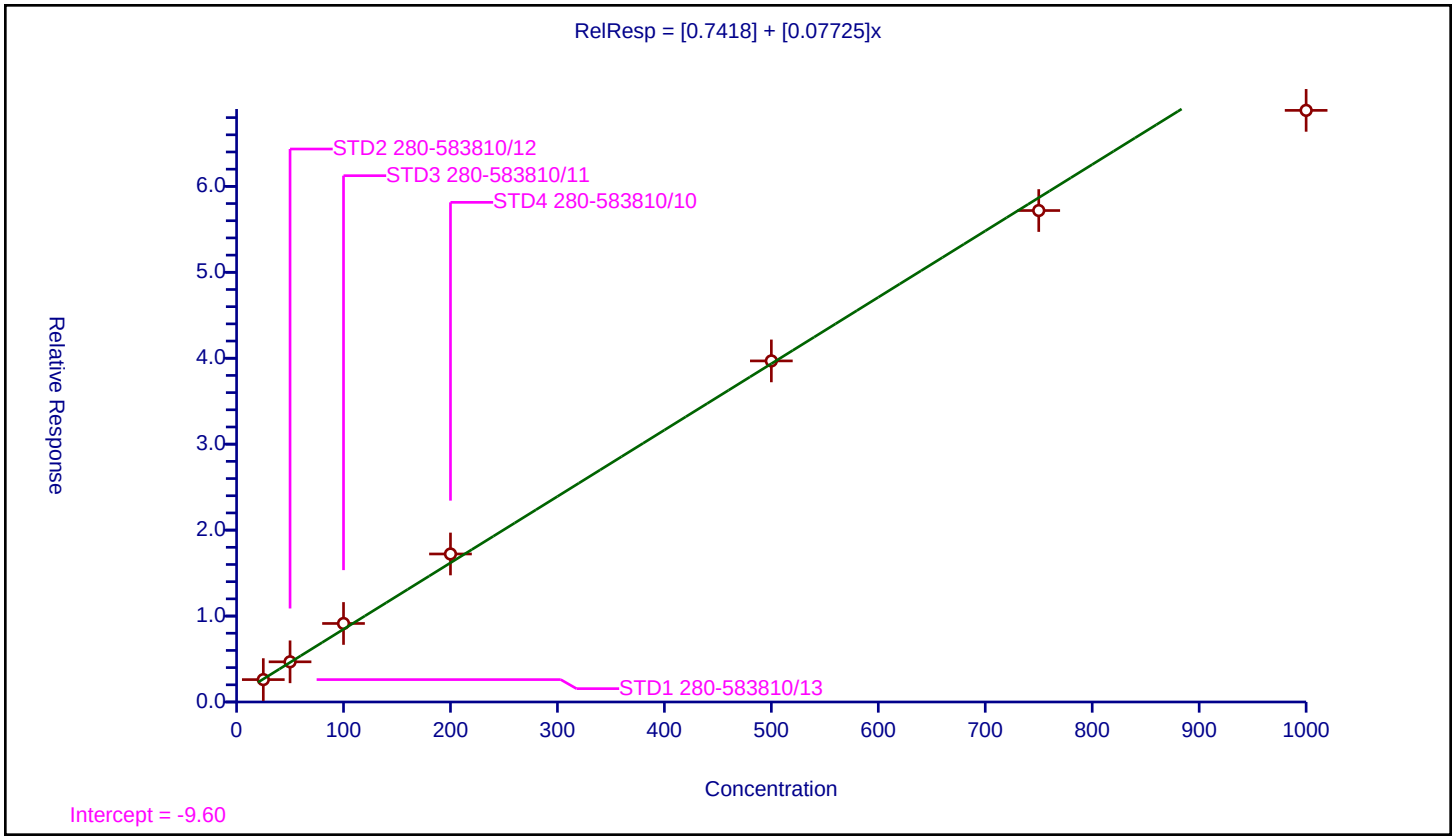
Curve Coefficients

Intercept:	0.7418
Slope:	0.07725

Error Coefficients

Standard Error:	64300000
Relative Standard Error:	7.5
Correlation Coefficient:	0.978
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-583810/13	25.0	2.603967	100.0	140031173.0	0.104159	Y
2	STD2 280-583810/12	50.0	4.675188	100.0	141681674.0	0.093504	Y
3	STD3 280-583810/11	100.0	9.135225	100.0	148880618.0	0.091352	Y
4	STD4 280-583810/10	200.0	17.222535	100.0	136732171.0	0.086113	Y
5	ICIS 280-583810/9	500.0	39.688066	100.0	134424573.0	0.079376	Y
6	STD6 280-583810/8	750.0	57.188098	100.0	156551147.0	0.076251	Y
7	STD7 280-583810/7	1000.0	68.842429	100.0	137906979.0	0.068842	Y



Calibration / PCB-1260 Peak 4

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

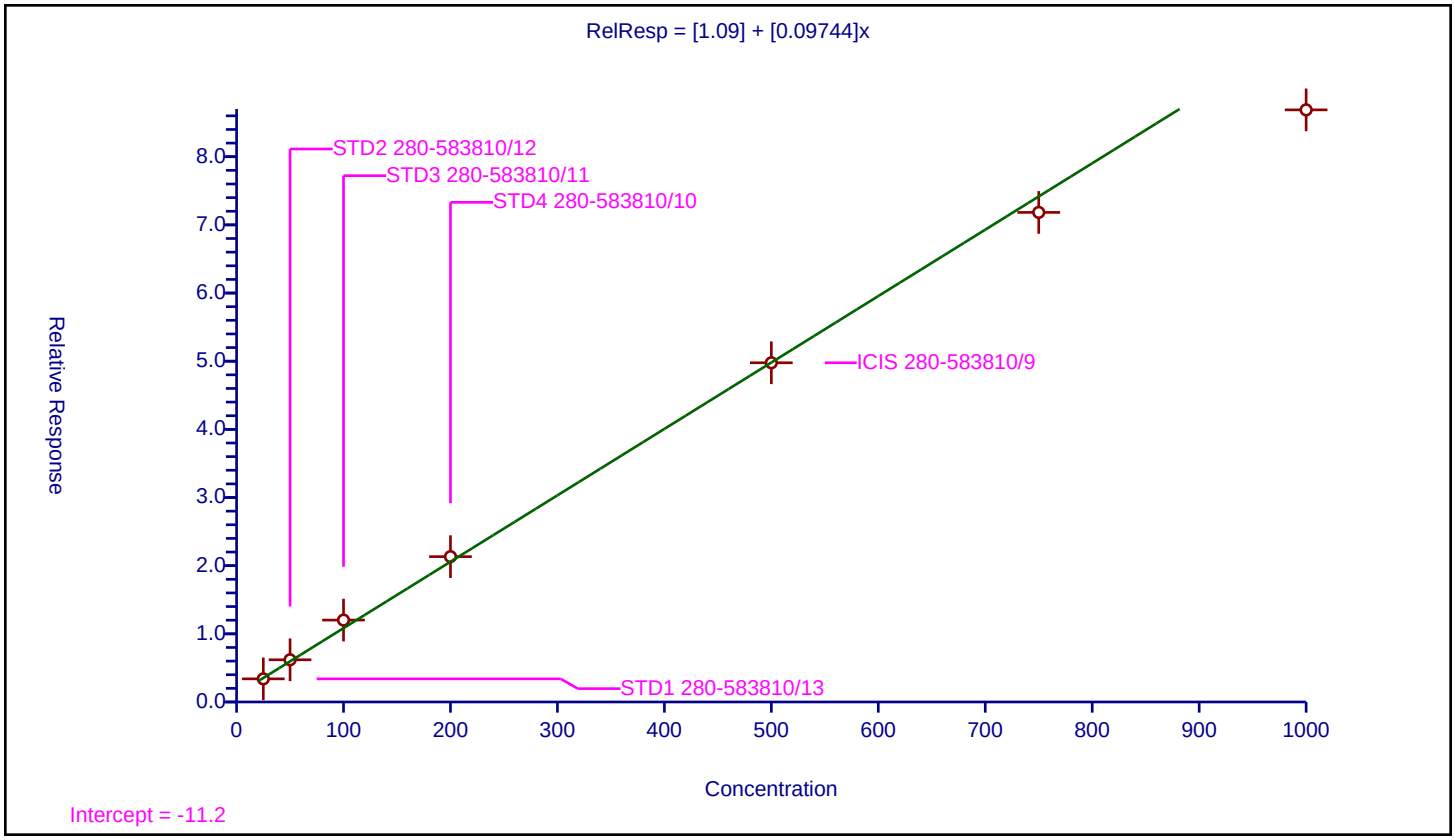
Curve Coefficients

Intercept:	1.09
Slope:	0.09744

Error Coefficients

Standard Error:	80900000
Relative Standard Error:	8.6
Correlation Coefficient:	0.978
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-583810/13	25.0	3.393046	100.0	140031173.0	0.135722	Y
2	STD2 280-583810/12	50.0	6.192475	100.0	141681674.0	0.123849	Y
3	STD3 280-583810/11	100.0	12.016794	100.0	148880618.0	0.120168	Y
4	STD4 280-583810/10	200.0	21.325779	100.0	136732171.0	0.106629	Y
5	ICIS 280-583810/9	500.0	49.76971	100.0	134424573.0	0.099539	Y
6	STD6 280-583810/8	750.0	71.831257	100.0	156551147.0	0.095775	Y
7	STD7 280-583810/7	1000.0	86.873724	100.0	137906979.0	0.086874	Y



Calibration / PCB-1260 Peak 5

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

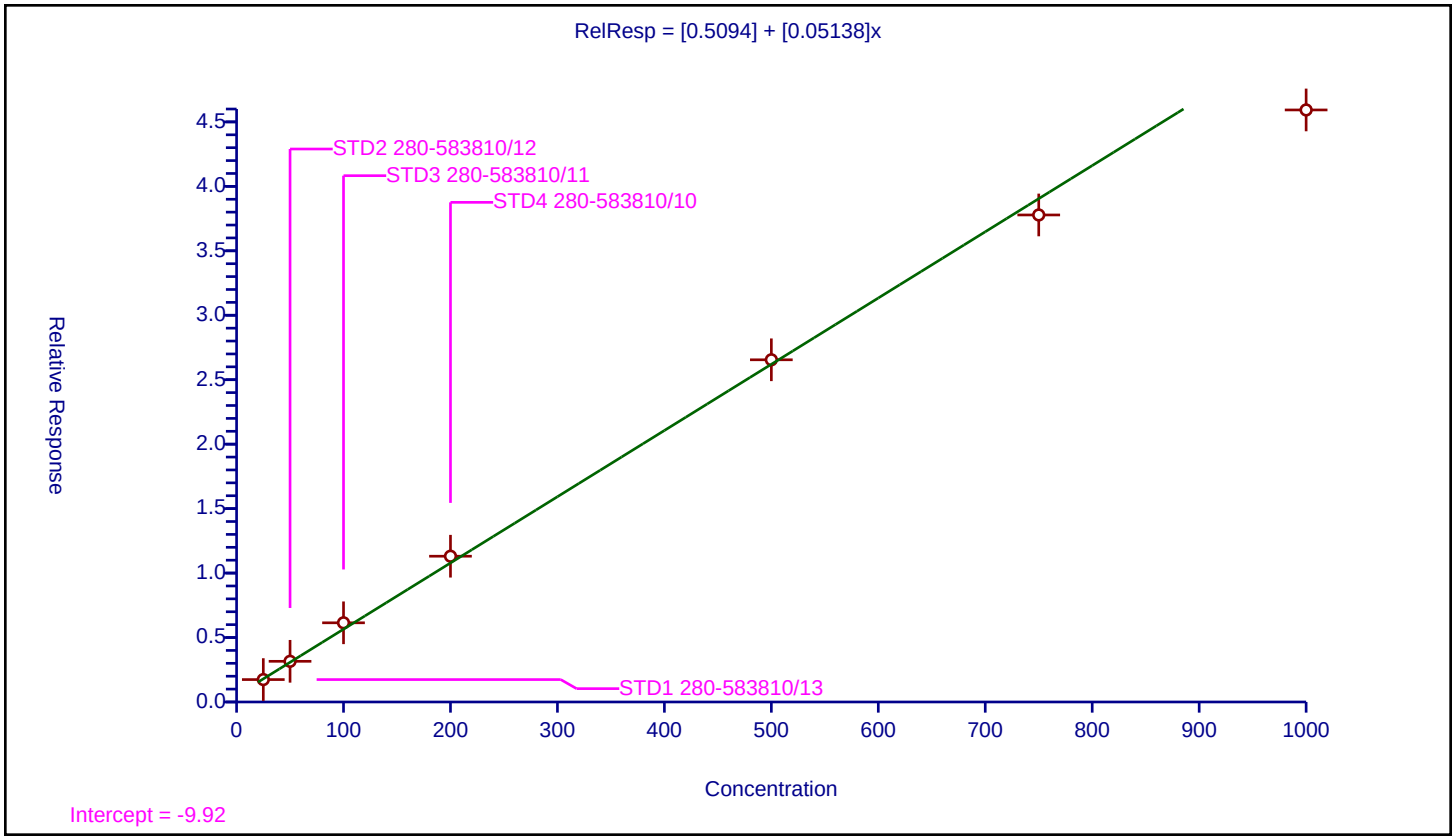
Curve Coefficients

Intercept:	0.5094
Slope:	0.05138

Error Coefficients

Standard Error:	42700000
Relative Standard Error:	7.7
Correlation Coefficient:	0.979
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-583810/13	25.0	1.739655	100.0	140031173.0	0.069586	Y
2	STD2 280-583810/12	50.0	3.155966	100.0	141681674.0	0.063119	Y
3	STD3 280-583810/11	100.0	6.143514	100.0	148880618.0	0.061435	Y
4	STD4 280-583810/10	200.0	11.307368	100.0	136732171.0	0.056537	Y
5	ICIS 280-583810/9	500.0	26.54696	100.0	134424573.0	0.053094	Y
6	STD6 280-583810/8	750.0	37.781267	100.0	156551147.0	0.050375	Y
7	STD7 280-583810/7	1000.0	45.928378	100.0	137906979.0	0.045928	Y



Calibration / DCB Decachlorobiphenyl

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

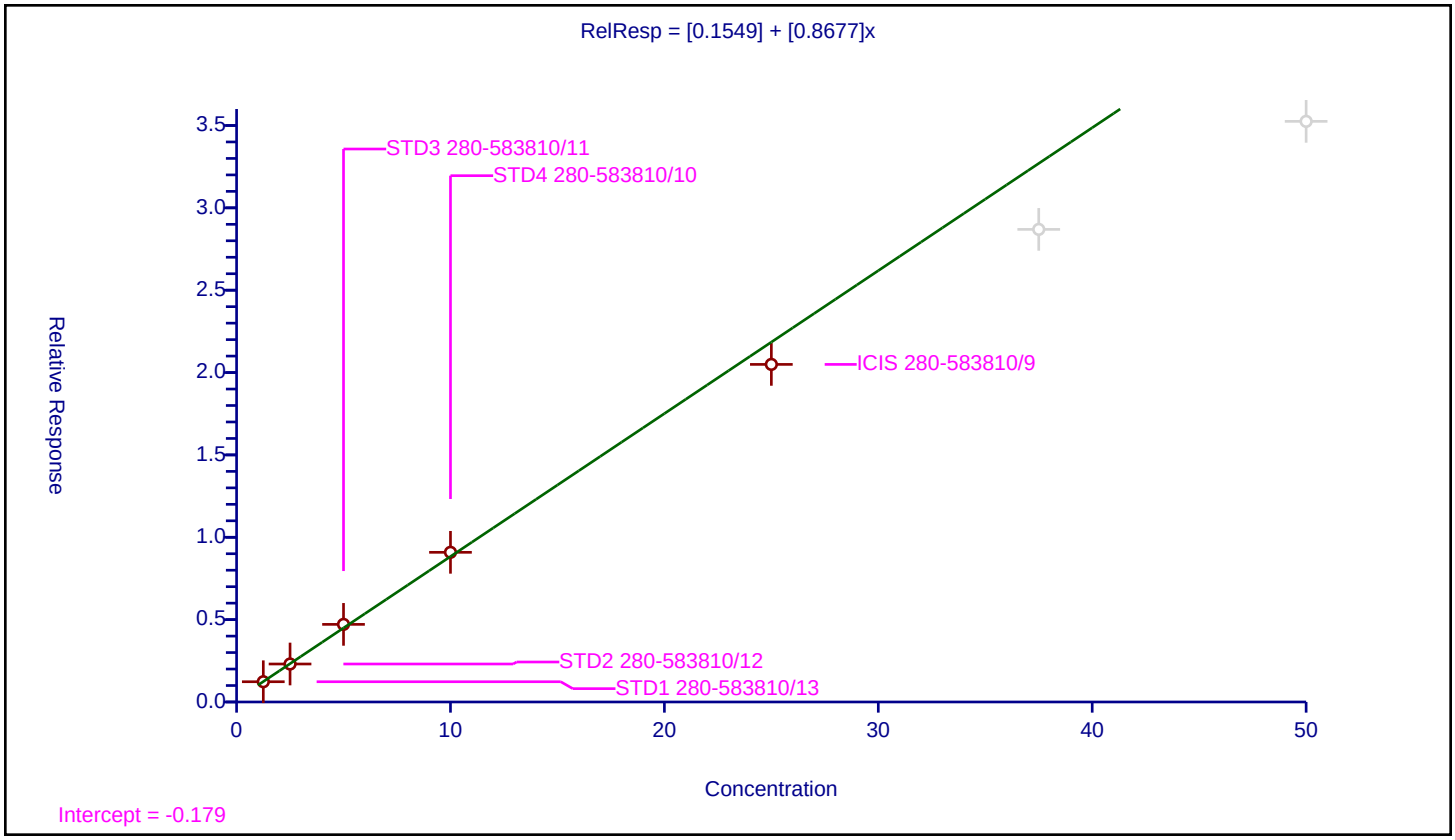
Curve Coefficients

Intercept:	0.1549
Slope:	0.8677

Error Coefficients

Standard Error:	18000000
Relative Standard Error:	5.0
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-583810/13	1.25	1.22986	100.0	140031173.0	0.983888	Y
2	STD2 280-583810/12	2.5	2.306115	100.0	141681674.0	0.922446	Y
3	STD3 280-583810/11	5.0	4.71196	100.0	148880618.0	0.942392	Y
4	STD4 280-583810/10	10.0	9.086824	100.0	136732171.0	0.908682	Y
5	ICIS 280-583810/9	25.0	20.495395	100.0	134424573.0	0.819816	Y
6	STD6 280-583810/8	37.5	28.69222	100.0	156551147.0	0.765126	N
7	STD7 280-583810/7	50.0	35.25079	100.0	137906979.0	0.705016	N



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-168095-2 Analy Batch No.: 583810

SDG No.:

Instrument ID: SGC_P3 GC Column: CLP2 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/12/2022 12:05 Calibration End Date: 08/12/2022 14:02 Calibration ID: 69969

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-583810/13	08120013.D
Level 2	STD2 280-583810/12	08120012.D
Level 3	STD3 280-583810/11	08120011.D
Level 4	STD4 280-583810/10	08120010.D
Level 5	ICIS 280-583810/9	08120009.D
Level 6	STD6 280-583810/8	08120008.D
Level 7	STD7 280-583810/7	08120007.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0333 0.0187	0.0288 0.0171	0.0248	0.0223	0.0204	Lin1	0.5040	0.0179							0.9930		0.9900
PCB-1016 Peak 2	0.0661 0.0382	0.0525 0.0352	0.0473	0.0436	0.0407	Lin2	0.7174	0.0381							0.9960		0.9900
PCB-1016 Peak 3	0.1129 0.0848	0.1032 0.0778	0.0982	0.0937	0.0877	Lin2	0.7597	0.0854							0.9950		0.9900
PCB-1016 Peak 4	0.0465 0.0351	0.0432 0.0321	0.0398	0.0371	0.0346	Lin2	0.3357	0.0346							0.9960		0.9900
PCB-1016 Peak 5	0.0372 0.0263	0.0347 0.0240	0.0324	0.0299	0.0275	Lin2	0.2972	0.0269							0.9910		0.9900
PCB-1260 Peak 1	0.0780 0.0461	0.0598 0.0422	0.0551	0.0507	0.0480	Lin2	0.8232	0.0449							0.9970		0.9900
PCB-1260 Peak 2	0.0849 0.0553	0.0716 0.0505	0.0658	0.0623	0.0578	Lin2	0.7769	0.0552							0.9960		0.9900
PCB-1260 Peak 3	0.0810 0.0567	0.0763 0.0525	0.0668	0.0601	0.0573	Lin2	0.7062	0.0564							0.9940		0.9900
PCB-1260 Peak 4	0.1524 0.1019	0.1317 0.0935	0.1179	0.1101	0.1050	Lin2	1.3719	0.1005							0.9970		0.9900
PCB-1260 Peak 5	0.1146 0.0728	0.0981 0.0673	0.0882	0.0817	0.0756	Lin2	1.1116	0.0729							0.9960		0.9900
Tetrachloro-m-xylene	1.4603 1.0945	1.3338 0.9972	1.2281	1.1695	1.1297	Lin2	0.5104	1.0862							0.9970		0.9900
DCB Decachlorobiphenyl	1.0912 0.8047	1.1224 0.7246	0.9764	0.9141	0.8437	Ave		0.9253				15.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-168095-2 Analy Batch No.: 583810

SDG No.:

Instrument ID: SGC_P3 GC Column: CLP2 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/12/2022 12:05 Calibration End Date: 08/12/2022 14:02 Calibration ID: 69969

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-583810/13	08120013.D
Level 2	STD2 280-583810/12	08120012.D
Level 3	STD3 280-583810/11	08120011.D
Level 4	STD4 280-583810/10	08120010.D
Level 5	ICIS 280-583810/9	08120009.D
Level 6	STD6 280-583810/8	08120008.D
Level 7	STD7 280-583810/7	08120007.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Lin1	1008049 19112983	1772598 20314577	3206217	5283060	11846510	25.0 750	50.0 1000	100	200	500
PCB-1016 Peak 2	BNB	Lin2	2002273 38929597	3234146 41828919	6115763	10319182	23612835	25.0 750	50.0 1000	100	200	500
PCB-1016 Peak 3	BNB	Lin2	3421282 86444201	6357276 92553851	12684597	22147356	50835234	25.0 750	50.0 1000	100	200	500
PCB-1016 Peak 4	BNB	Lin2	1409262 35836721	2663819 38164809	5144416	8780449	20050475	25.0 750	50.0 1000	100	200	500
PCB-1016 Peak 5	BNB	Lin2	1127193 26775547	2135914 28587156	4184799	7077695	15945394	25.0 750	50.0 1000	100	200	500
PCB-1260 Peak 1	BNB	Lin2	2363427 47021859	3686827 50189405	7120749	11987444	27827900	25.0 750	50.0 1000	100	200	500
PCB-1260 Peak 2	BNB	Lin2	2572711 56401191	4412687 60006952	8500122	14742220	33533023	25.0 750	50.0 1000	100	200	500
PCB-1260 Peak 3	BNB	Lin2	2456004 57790385	4701163 62395306	8623134	14222151	33258092	25.0 750	50.0 1000	100	200	500
PCB-1260 Peak 4	BNB	Lin2	4618496 103943807	8116672 111193312	15229020	26031581	60871147	25.0 750	50.0 1000	100	200	500
PCB-1260 Peak 5	BNB	Lin2	3471830 74255186	6045877 80007866	11395955	19326168	43855086	25.0 750	50.0 1000	100	200	500
Tetrachloro-m-xylene	BNB	Lin2	2212549 55818821	4109892 59280238	7932319	13827577	32760660	1.25 37.5	2.50 50.0	5.00	10.0	25.0
DCB Decachlorobiphenyl	BNB	Ave	1653289 41036391	3458366 43072881	6306462	10806913	24465211	1.25 37.5	2.50 50.0	5.00	10.0	25.0

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-168095-2 Analy Batch No.: 583810

SDG No.:

Instrument ID: SGC_P3 GC Column: CLP2 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/12/2022 12:05 Calibration End Date: 08/12/2022 14:02 Calibration ID: 69969

Curve Type Legend
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120007.D
Lims ID: STD7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 12-Aug-2022 12:05:36 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: STD7
Misc. Info.: 280-0113425-007
Operator ID: smp Instrument ID: SGC_P3
Sublist: chrom-PCB_P3*sub1

Method: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\PCB_P3.m
Limit Group: GCSV - 8082A - IS
Last Update: 16-Aug-2022 09:15:48 Calib Date: 12-Aug-2022 14:02:47
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120013.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
Process Host: CTX1667

First Level Reviewer: USP3 Date: 15-Aug-2022 10:31:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.208	3.206	0.002	137906979	100.0	100.0	
2	2.955	2.952	0.003	118889957	100.0	100.0	
						RPD = 0.00	
$ 14 Tetrachloro-m-xylene							
1	3.991	3.990	0.001	65542962	50.0	43.2	
2	3.845	3.844	0.001	59280238	50.0	45.4	
						RPD = 5.10	
1 PCB-1016							
1	4.348	4.350	-0.002	23371028	1000.0	783.8	
1	4.695	4.697	-0.002	48302030	1000.0	863.6	
1	5.145	5.147	-0.002	100074473	1000.0	878.1	
1	5.305	5.307	-0.002	42511628	1000.0	867.0	
1	5.735	5.737	-0.002	42662739	1000.0	778.2	
		Average of Peak Amounts =				834.1	
2	4.291	4.290	0.001	20314577	1000.0	925.3	
2	4.665	4.664	0.001	41828919	1000.0	904.6	
2	5.105	5.090	0.015	92553851	1000.0	902.5	
2	5.238	5.240	-0.002	38164809	1000.0	919.3	
2	5.725	5.724	0.001	28587156	1000.0	882.4	
		Average of Peak Amounts =				906.8	
						RPD = 8.35	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12 PCB-1260							
1	7.135	7.137	-0.002	51157397	1000.0	867.5	
1	7.478	7.477	0.001	82603596	1000.0	897.6	
1	7.828	7.827	0.001	94938514	1000.0	881.6	
1	8.688	8.690	-0.002	119804929	1000.0	880.4	
1	9.065	9.064	0.001	63338438	1000.0	884.0	
		Average of Peak Amounts =				882.2	
2	7.175	7.174	0.001	50189405	1000.0	920.9	
2	7.435	7.434	0.001	60006952	1000.0	899.8	
2	7.881	7.884	-0.003	62395306	1000.0	918.2	
2	8.708	8.710	-0.002	111193312	1000.0	916.8	
2	9.191	9.194	-0.003	80007866	1000.0	908.1	
		Average of Peak Amounts =				912.8	
						RPD = 3.41	
$ 15 DCB Decachlorobiphenyl							a
1	10.418	10.420	-0.002	48613300	50.0	40.4	a
2	10.581	10.584	-0.003	43072881	50.0	39.2	a
						RPD = 3.24	
S 8 Polychlorinated biphenyls, Total							
1						1716.3	
2						1819.6	
						RPD = 5.84	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

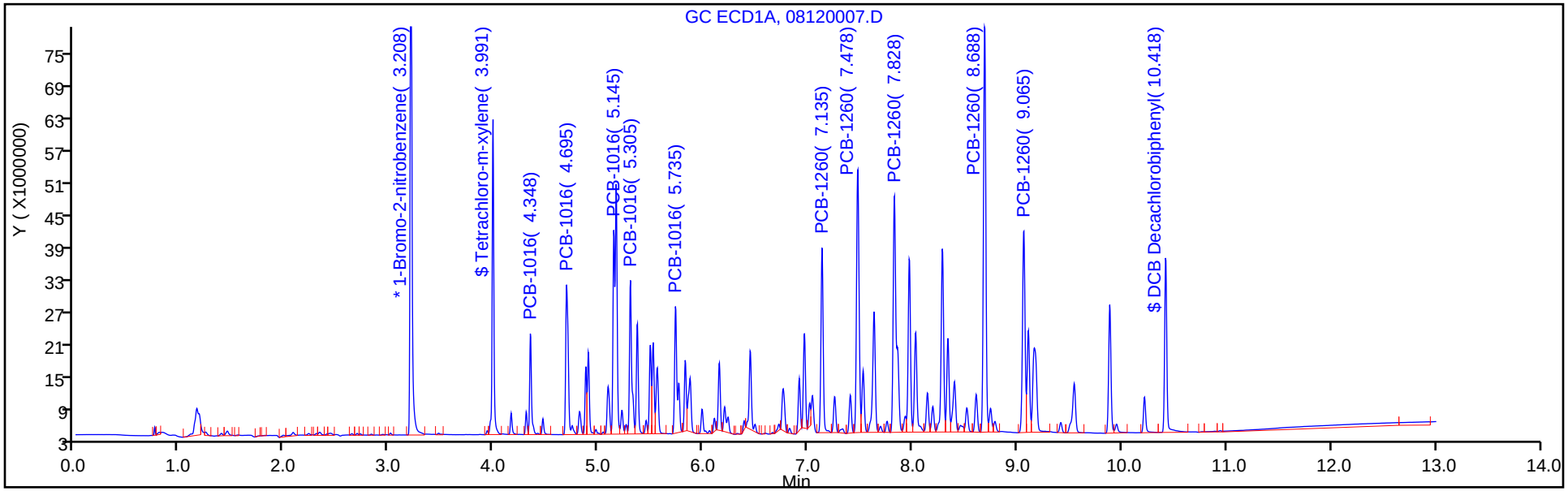
AR_1660_L7_00040	Amount Added: 200.00	Units: uL	
BNB IS_00022	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 16-Aug-2022 09:15:49 Chrom Revision: 2.3 08-Aug-2022 16:03:06

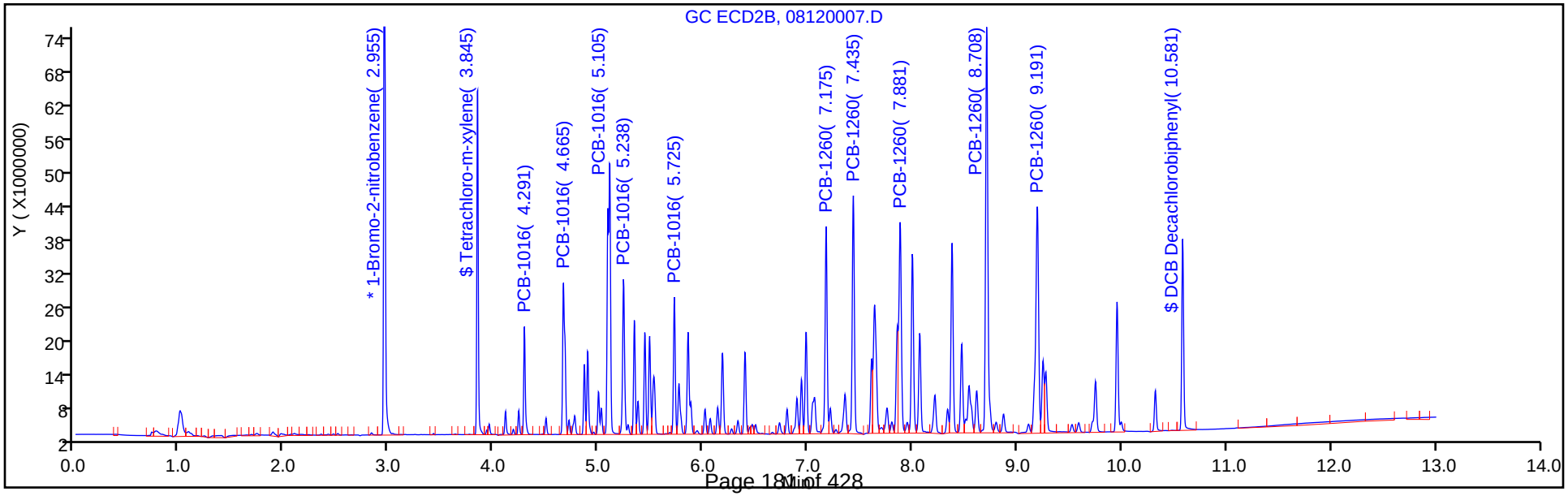
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120007.D				
Injection Date:	12-Aug-2022 12:05:36	Instrument ID:	SGC_P3	Operator ID:	smp
Lims ID:	STD7			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Denver

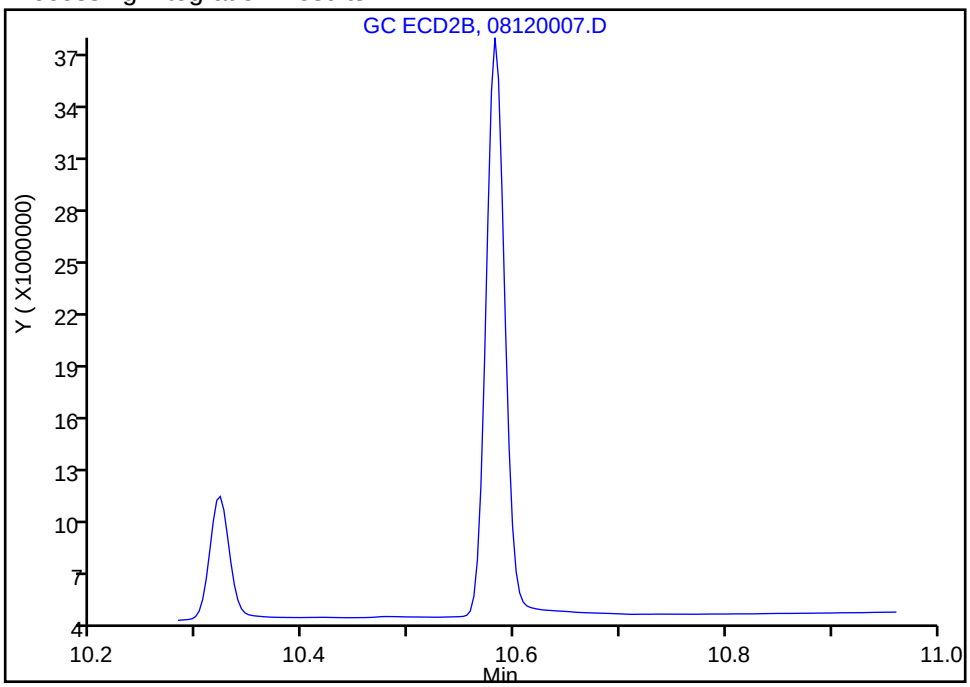
Data File:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120007.D				
Injection Date:	12-Aug-2022 12:05:36	Instrument ID:	SGC_P3		
Lims ID:	STD7				
Client ID:					
Operator ID:	smp	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		
Column:	CLP2 Pesticides Column 2 (0.32 mm)	Detector	GC ECD2B		

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

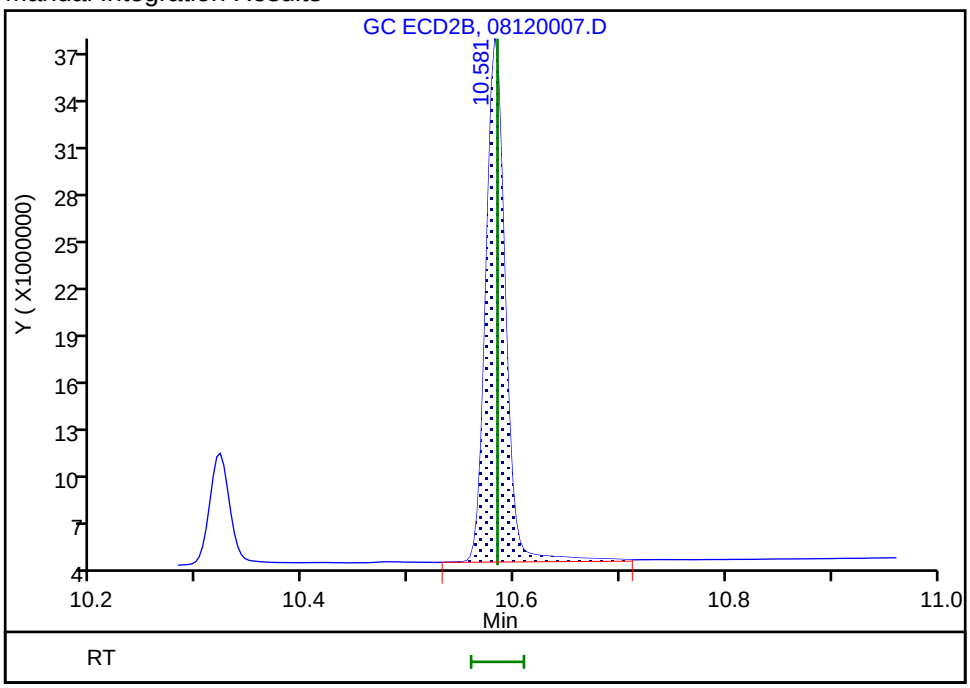
Processing Integration Results

Not Detected
Expected RT: 10.58



Manual Integration Results

RT: 10.58
Area: 43072881
Amount: 39.154878
Amount Units: ng/ml



Reviewer: USP3, 15-Aug-2022 10:15:44
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120008.D
Lims ID: STD6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 12-Aug-2022 12:25:02 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: STD6
Misc. Info.: 280-0113425-008
Operator ID: smp Instrument ID: SGC_P3
Sublist: chrom-PCB_P3*sub1

Method: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\PCB_P3.m
Limit Group: GCSV - 8082A - IS
Last Update: 16-Aug-2022 09:15:34 Calib Date: 12-Aug-2022 14:02:47
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120013.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
Process Host: CTX1667

First Level Reviewer: USP3 Date: 15-Aug-2022 10:13:56

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.208	3.207	0.001	156551147	100.0	100.0	
2	2.955	2.954	0.001	135992639	100.0	100.0	
						RPD = 0.00	
$ 14 Tetrachloro-m-xylene							
1	3.992	3.990	0.002	61856808	37.5	35.8	
2	3.842	3.844	-0.002	55818821	37.5	37.3	
						RPD = 4.06	
1 PCB-1016							
1	4.348	4.350	-0.002	22108568	750.0	653.2	
1	4.695	4.697	-0.002	45575631	750.0	716.3	
1	5.145	5.147	-0.002	94279445	750.0	727.2	
1	5.305	5.307	-0.002	40186839	750.0	720.5	
1	5.735	5.737	-0.002	41423632	750.0	665.6	
		Average of Peak Amounts =				696.5	
2	4.292	4.290	0.002	19112983	750.0	756.1	
2	4.665	4.664	0.001	38929597	750.0	732.5	
2	5.108	5.090	0.018	86444201	750.0	735.3	
2	5.238	5.240	-0.002	35836721	750.0	753.0	
2	5.725	5.724	0.001	26775547	750.0	720.5	
		Average of Peak Amounts =				739.5	
						RPD = 5.98	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12 PCB-1260							
1	7.135	7.137	-0.002	48001804	750.0	715.3	
1	7.478	7.477	0.001	77751913	750.0	741.5	
1	7.828	7.827	0.001	89528623	750.0	730.7	
1	8.688	8.690	-0.002	112452657	750.0	726.0	
1	9.065	9.064	0.001	59147007	750.0	725.4	
		Average of Peak Amounts =				727.8	
2	7.175	7.174	0.001	47021859	750.0	751.0	
2	7.435	7.434	0.001	56401191	750.0	736.9	
2	7.882	7.884	-0.002	57790385	750.0	741.1	
2	8.708	8.710	-0.002	103943807	750.0	746.7	
2	9.195	9.194	0.001	74255186	750.0	734.0	
		Average of Peak Amounts =				741.9	
						RPD = 1.92	
$ 15 DCB Decachlorobiphenyl							
1	10.422	10.420	0.002	44918000	37.5	32.9	
2	10.582	10.584	-0.002	41036391	37.5	32.6	
						RPD = 0.84	
S 8 Polychlorinated biphenyls, Total							
1						1424.3	
2						1481.4	
						RPD = 3.93	

QC Flag Legend

Processing Flags

Reagents:

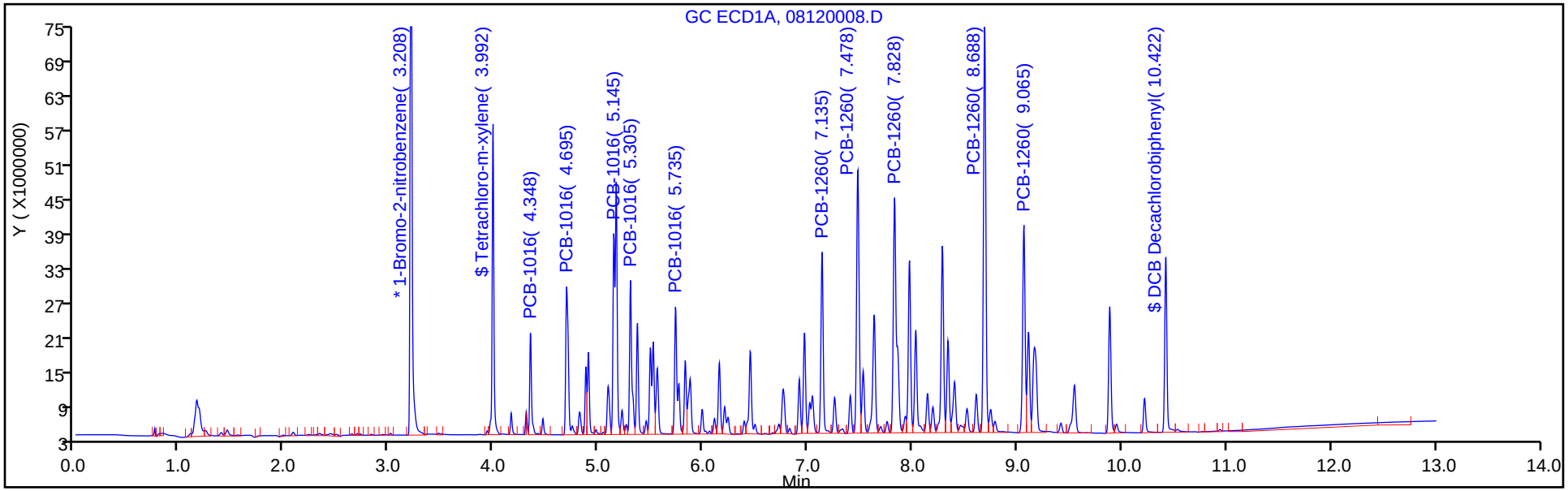
AR_1660_L7_00040	Amount Added: 150.00	Units: uL	
BNB IS_00022	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 16-Aug-2022 09:15:35 Chrom Revision: 2.3 08-Aug-2022 16:03:06

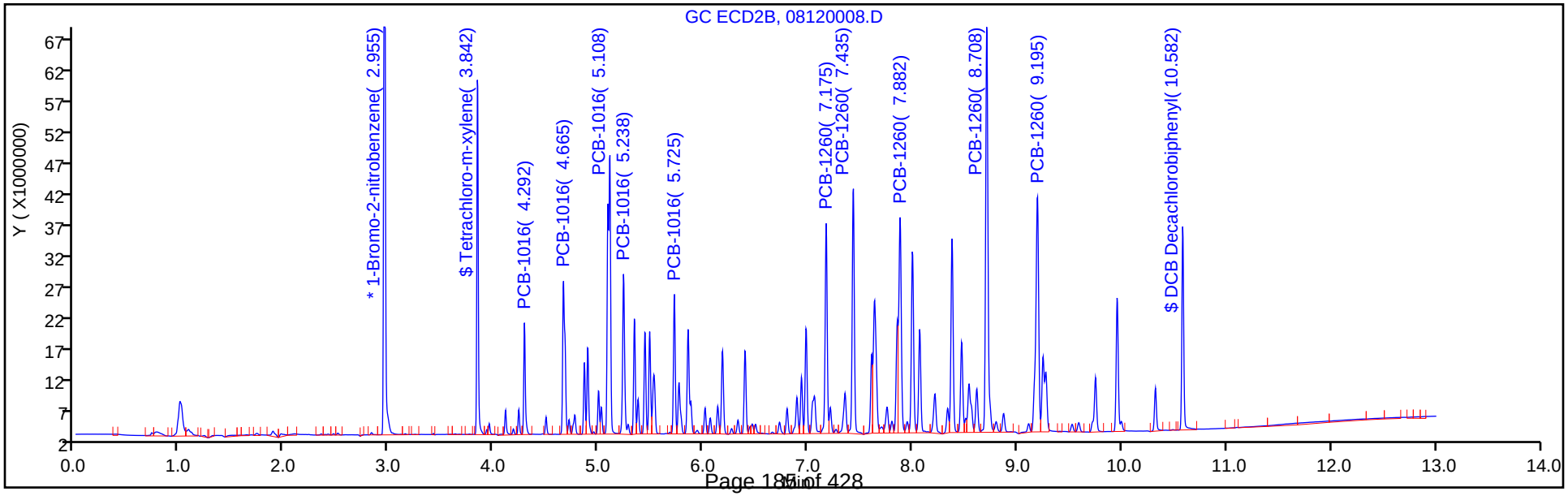
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120008.D				
Injection Date:	12-Aug-2022 12:25:02	Instrument ID:	SGC_P3	Operator ID:	smp
Lims ID:	STD6			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120009.D				
Lims ID:	ICIS				
Client ID:					
Sample Type:	ICIS	Calib Level:	5		
Inject. Date:	12-Aug-2022 12:44:34	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	ICIS				
Misc. Info.:	280-0113425-009				
Operator ID:	smp	Instrument ID:	SGC_P3		
Sublist:	chrom-PCB_P3*sub1				
Method:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\PCB_P3.m				
Limit Group:	GCSV - 8082A - IS				
Last Update:	15-Aug-2022 10:39:11	Calib Date:	12-Aug-2022 14:02:47		
Integrator:	Falcon				
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120013.D				
Column 1 :	CLP1 Pesticides Column 1 (0.32 mm)		Det: GC ECD1A		
Column 2 :	CLP2 Pesticides Column 2 (0.32 mm)		Det: GC ECD2B		
Process Host:	CTX1649				

First Level Reviewer: USP3 Date: 15-Aug-2022 10:10:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.207	3.207	0.000	134424573	100.0	100.0	
2	2.954	2.954	0.000	115993086	100.0	100.0	
						RPD = 0.00	
$ 14 Tetrachloro-m-xylene							
1	3.990	3.990	0.000	36696985	25.0	24.6	
2	3.844	3.844	0.000	32760660	25.0	25.5	
						RPD = 3.54	
1 PCB-1016							a
1	4.350	4.350	0.000	13589406	500.0	467.6	
1	4.697	4.697	0.000	27875559	500.0	507.6	
1	5.147	5.147	0.000	56358320	500.0	503.6	a
1	5.307	5.307	0.000	24280601	500.0	504.3	
1	5.737	5.737	0.000	24983210	500.0	467.5	a
		Average of Peak Amounts =				490.1	
2	4.290	4.290	0.000	11846510	500.0	541.7	
2	4.664	4.664	0.000	23612835	500.0	515.5	
2	5.090	5.090	0.000	50835234	500.0	504.2	a
2	5.240	5.240	0.000	20050475	500.0	490.6	a
2	5.724	5.724	0.000	15945394	500.0	499.7	a
		Average of Peak Amounts =				510.3	
						RPD = 4.05	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12 PCB-1260							a
1	7.137	7.137	0.000	29061489	500.0	501.4	a
1	7.477	7.477	0.000	46743609	500.0	514.3	a
1	7.827	7.827	0.000	53350513	500.0	504.2	a
1	8.690	8.690	0.000	66902720	500.0	499.6	a
1	9.064	9.064	0.000	35685638	500.0	506.8	a
		Average of Peak Amounts =				505.2	
2	7.174	7.174	0.000	27827900	500.0	515.4	a
2	7.434	7.434	0.000	33533023	500.0	509.4	a
2	7.884	7.884	0.000	33258092	500.0	496.0	
2	8.710	8.710	0.000	60871147	500.0	508.4	a
2	9.194	9.194	0.000	43855086	500.0	503.5	a
		Average of Peak Amounts =				506.5	
						RPD = 0.26	
$ 15 DCB Decachlorobiphenyl							a
1	10.420	10.420	0.000	27550847	25.0	23.4	a
2	10.584	10.584	0.000	24465211	25.0	22.8	a
						RPD = 2.79	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

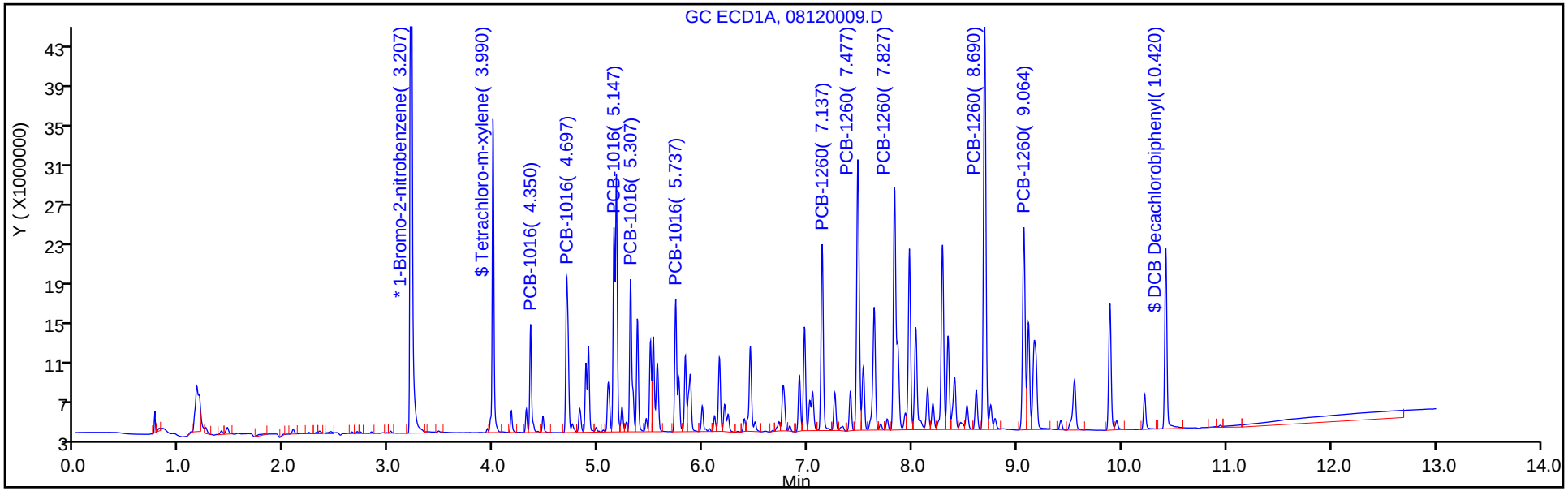
AR_1660_L7_00040	Amount Added: 100.00	Units: uL	
BNB IS_00022	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 15-Aug-2022 10:39:12 Chrom Revision: 2.3 08-Aug-2022 16:03:06

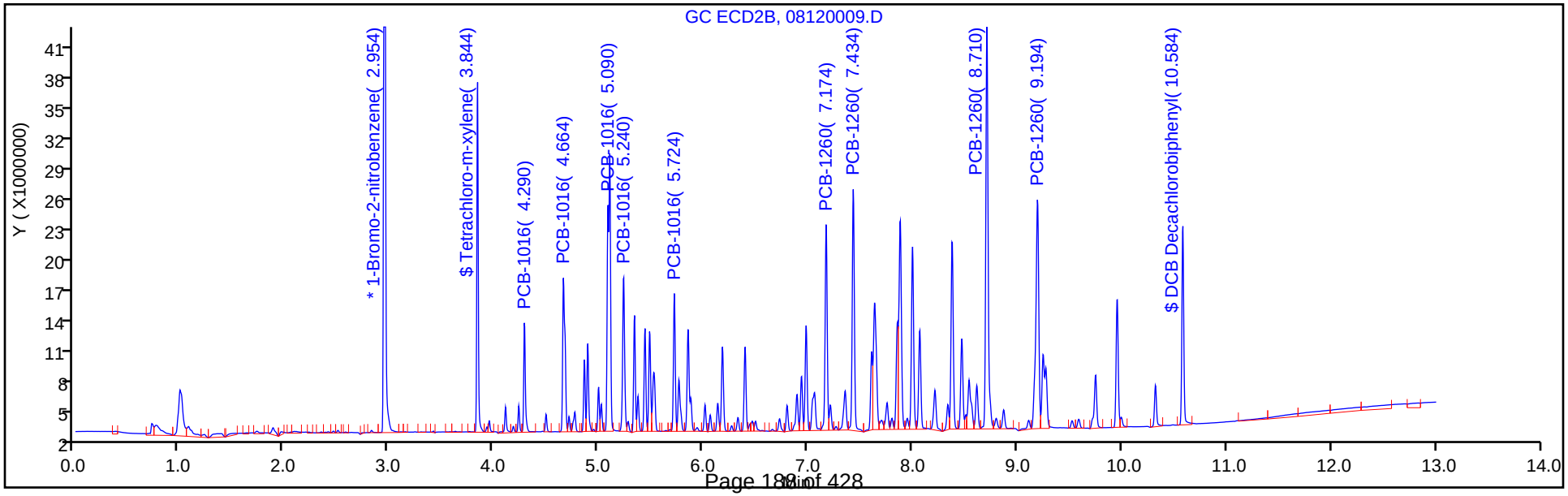
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120009.D				
Injection Date:	12-Aug-2022 12:44:34	Instrument ID:	SGC_P3	Operator ID:	smp
Lims ID:	ICIS			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2

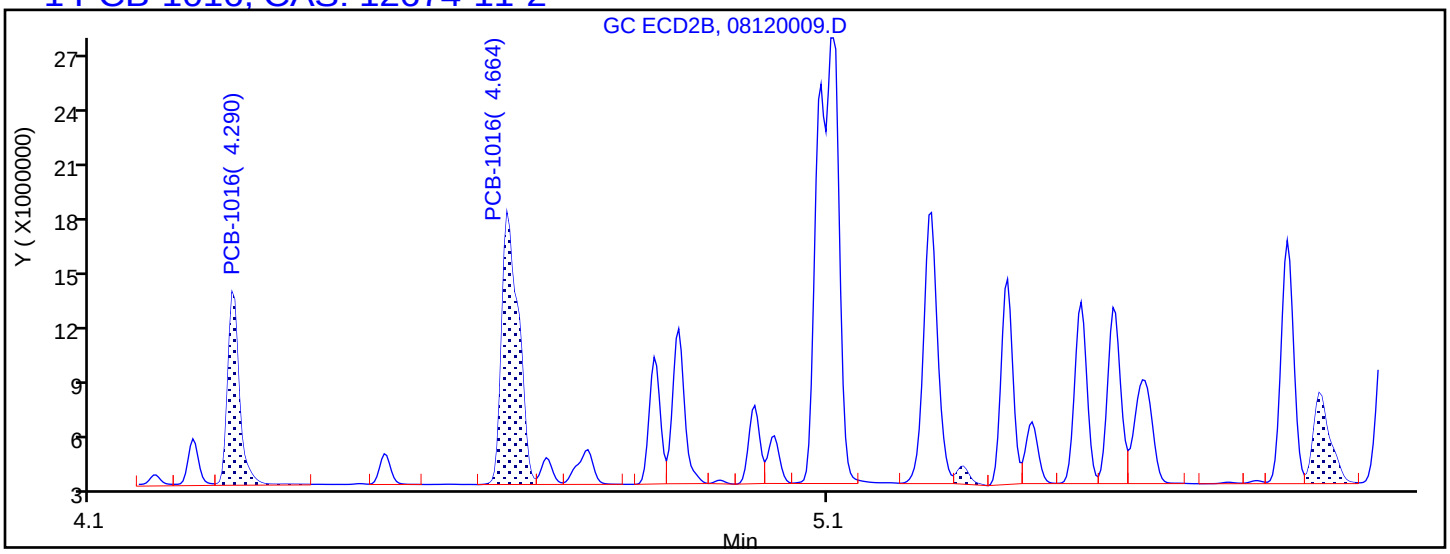


Report Date: 15-Aug-2022 10:39:12 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Denver

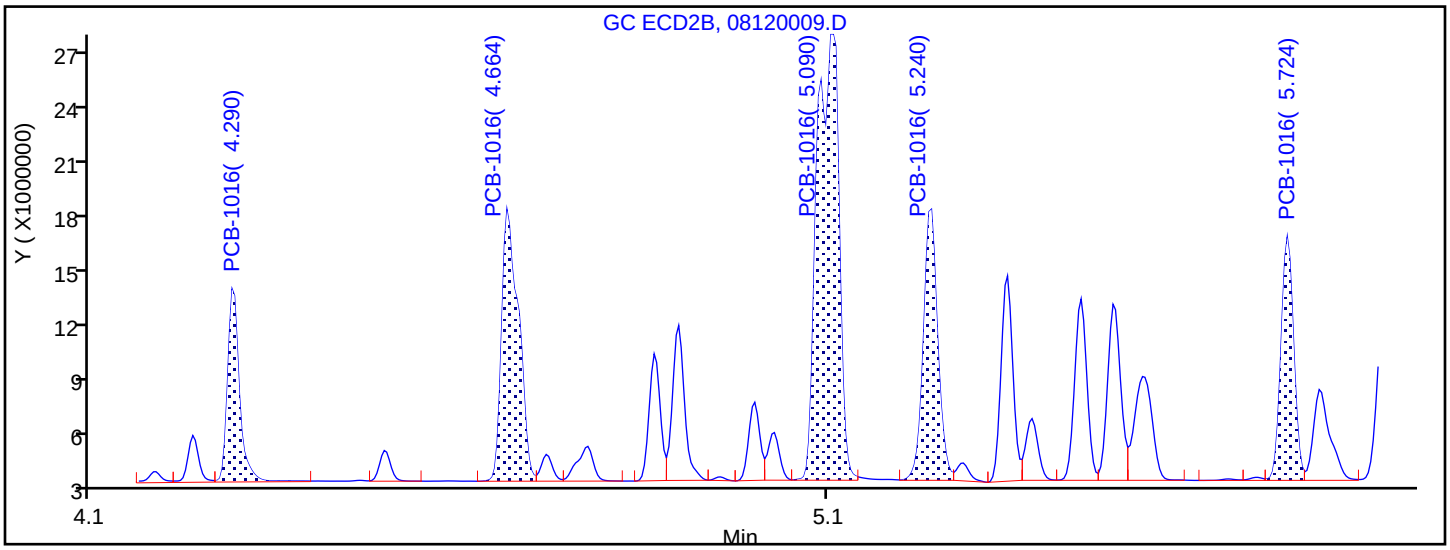
Data File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120009.D
Injection Date: 12-Aug-2022 12:44:34 Instrument ID: SGC_P3
Lims ID: ICIS
Client ID:
Operator ID: smp ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCB_P3 Limit Group: GCSV - 8082A - IS
Column: CLP2 Pesticides Column 2 (0.32 mm) Detector GC ECD2B

1 PCB-1016, CAS: 12674-11-2



Processing Integration Results

4.290	Response = 11846510
4.664	Response = 23612835
5.090	Response = 0
5.284	Response = 1166758
5.767	Response = 7894445



Manual Integration Results

4.290	Response = 11846510	
4.664	Response = 23612835	
5.090	Response = 50835234	M
5.240	Response = 20050475	M
5.724	Response = 15945394	M

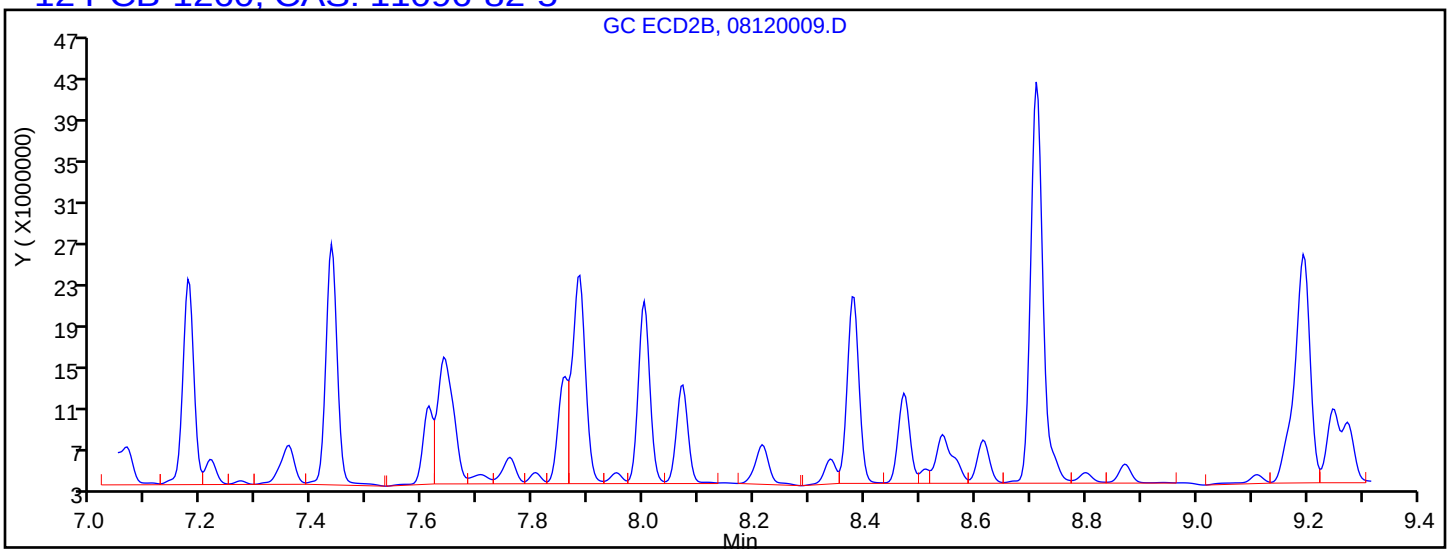
Reviewer: USP3, 15-Aug-2022 10:08:34
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Report Date: 15-Aug-2022 10:39:12 Chrom Revision: 2.3 08-Aug-2022 16:03:06

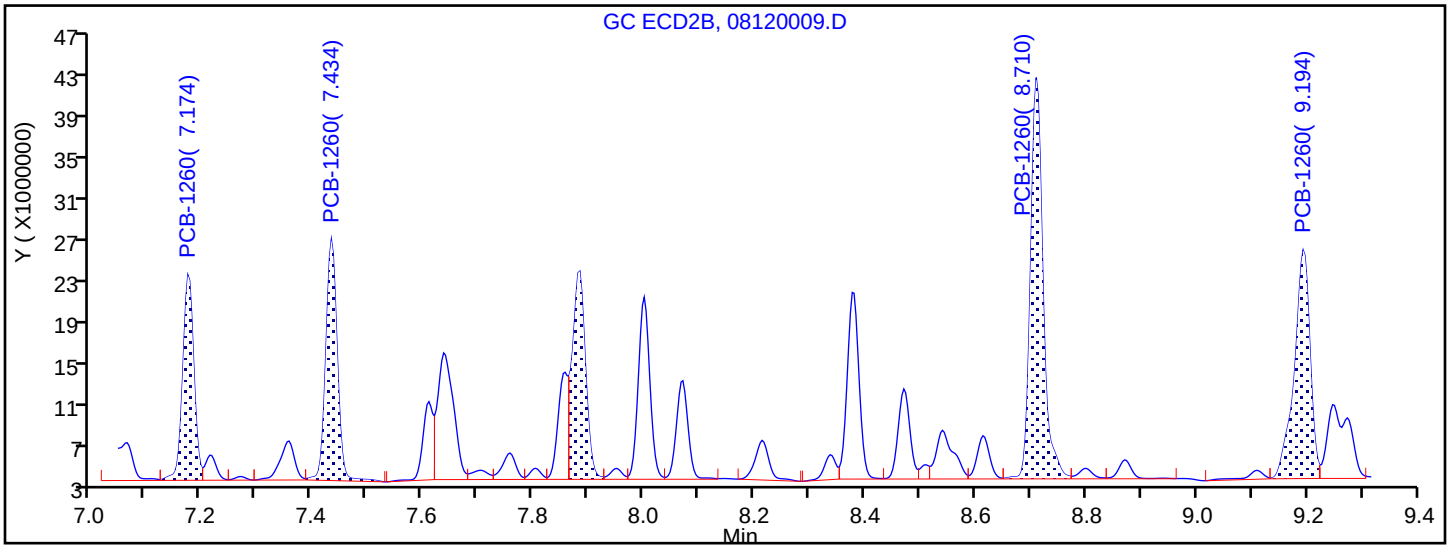
Eurofins Denver

Data File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120009.D
Injection Date: 12-Aug-2022 12:44:34 Instrument ID: SGC_P3
Lims ID: ICIS
Client ID:
Operator ID: smp ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCB_P3 Limit Group: GCSV - 8082A - IS
Column: CLP2 Pesticides Column 2 (0.32 mm) Detector GC ECD2B

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results



Manual Integration Results

7.174	Response = 27827900	M
7.434	Response = 33533023	M
7.884	Response = 33258092	
8.710	Response = 60871147	M
9.194	Response = 43855086	M

Reviewer: USP3, 15-Aug-2022 10:10:02
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Denver

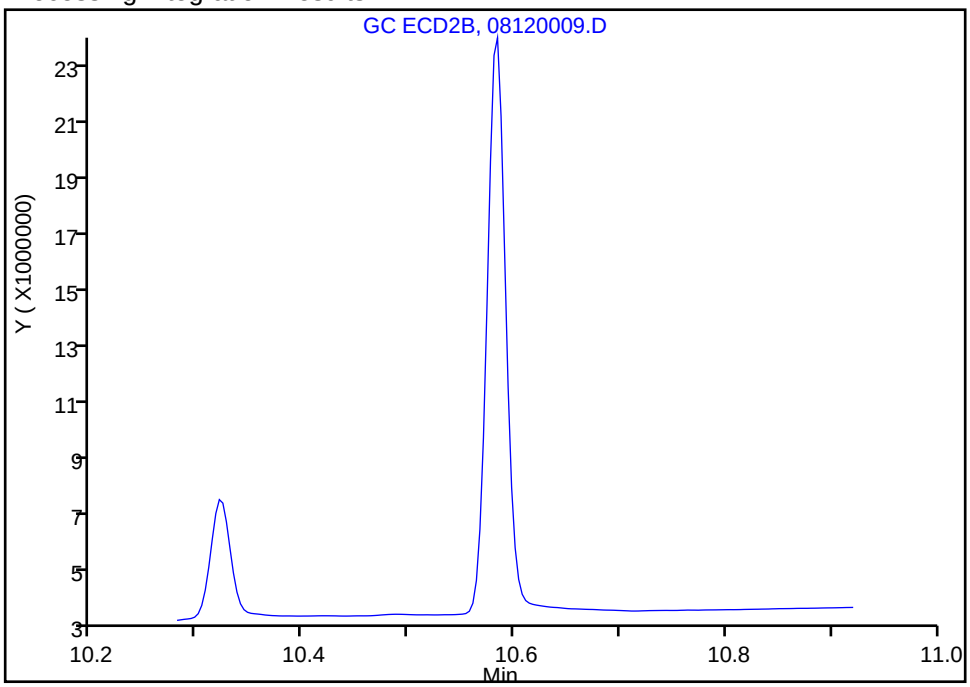
Data File:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120009.D				
Injection Date:	12-Aug-2022 12:44:34	Instrument ID:	SGC_P3		
Lims ID:	ICIS				
Client ID:					
Operator ID:	smp	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		
Column:	CLP2 Pesticides Column 2 (0.32 mm)	Detector	GC ECD2B		

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

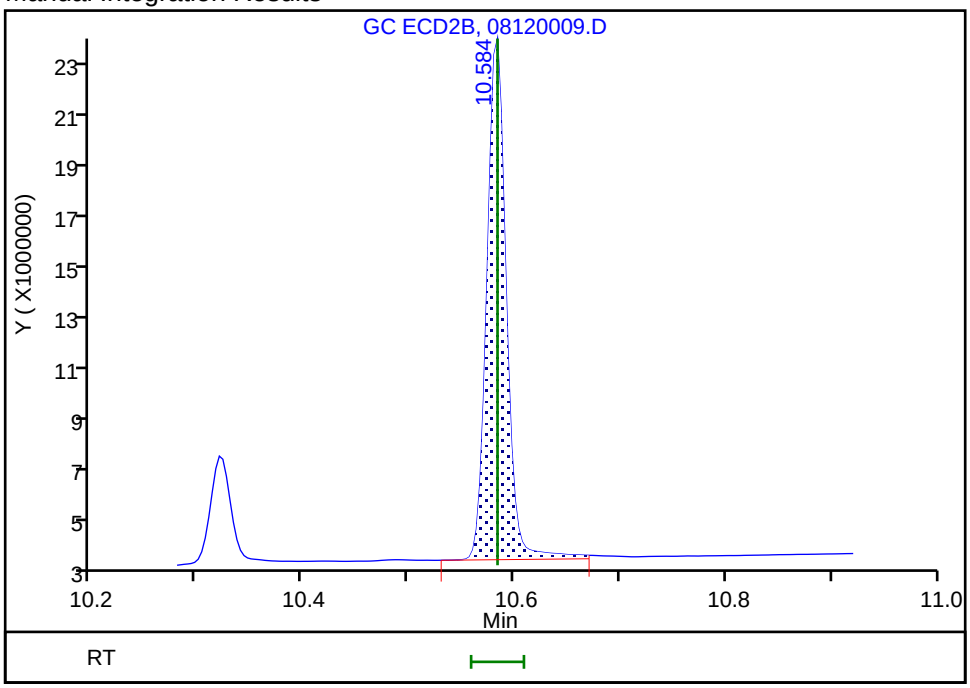
Processing Integration Results

Not Detected
Expected RT: 10.58



Manual Integration Results

RT:	10.58
Area:	24465211
Amount:	22.795230
Amount Units:	ng/ml



Reviewer: USP3, 15-Aug-2022 10:15:29
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120010.D
Lims ID: STD4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 12-Aug-2022 13:04:08 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: STD4
Misc. Info.: 280-0113425-010
Operator ID: smp Instrument ID: SGC_P3
Sublist: chrom-PCB_P3*sub1

Method: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\PCB_P3.m
Limit Group: GCSV - 8082A - IS
Last Update: 15-Aug-2022 10:39:16 Calib Date: 12-Aug-2022 14:02:47
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120013.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
Process Host: CTX1649

First Level Reviewer: USP3 Date: 15-Aug-2022 10:14:11

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.207	3.207	0.000	136732171	100.0	100.0	
2	2.954	2.954	0.000	118230948	100.0	100.0	
						RPD = 0.00	
$ 14 Tetrachloro-m-xylene							
1	3.990	3.990	0.000	15689079	10.0	10.1	
2	3.844	3.844	0.000	13827577	10.0	10.3	
						RPD = 1.49	
1 PCB-1016							M
1	4.350	4.350	0.000	5997099	200.0	202.9	
1	4.697	4.697	0.000	12368277	200.0	216.3	
1	5.147	5.147	0.000	24656903	200.0	211.6	
1	5.307	5.307	0.000	10698945	200.0	213.3	
1	5.737	5.737	0.000	11053919	200.0	203.4	
		Average of Peak Amounts =				209.5	
2	4.290	4.290	0.000	5283060	200.0	221.2	
2	4.664	4.664	0.000	10319182	200.0	210.3	
2	5.107	5.090	0.017	22147356	200.0	210.4	M
2	5.240	5.240	0.000	8780449	200.0	205.2	
2	5.724	5.724	0.000	7077695	200.0	211.4	
		Average of Peak Amounts =				211.7	
						RPD = 1.06	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12 PCB-1260							
1	7.137	7.137	0.000	13127586	200.0	217.1	
1	7.477	7.477	0.000	20623301	200.0	214.0	
1	7.827	7.827	0.000	23548746	200.0	213.3	
1	8.690	8.690	0.000	29159201	200.0	207.7	
1	9.064	9.064	0.000	15460810	200.0	210.2	
		Average of Peak Amounts =				212.4	
2	7.174	7.174	0.000	11987444	200.0	207.3	
2	7.434	7.434	0.000	14742220	200.0	211.7	
2	7.880	7.884	-0.004	14222151	200.0	200.8	
2	8.710	8.710	0.000	26031581	200.0	205.4	
2	9.194	9.194	0.000	19326168	200.0	209.0	
		Average of Peak Amounts =				206.8	
						RPD = 2.67	
$ 15 DCB Decachlorobiphenyl							
1	10.420	10.420	0.000	12424612	10.0	10.3	
2	10.584	10.584	0.000	10806913	10.0	9.88	
						RPD = 4.11	
S 8 Polychlorinated biphenyls, Total							
1						421.9	
2						418.5	
						RPD = 0.80	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

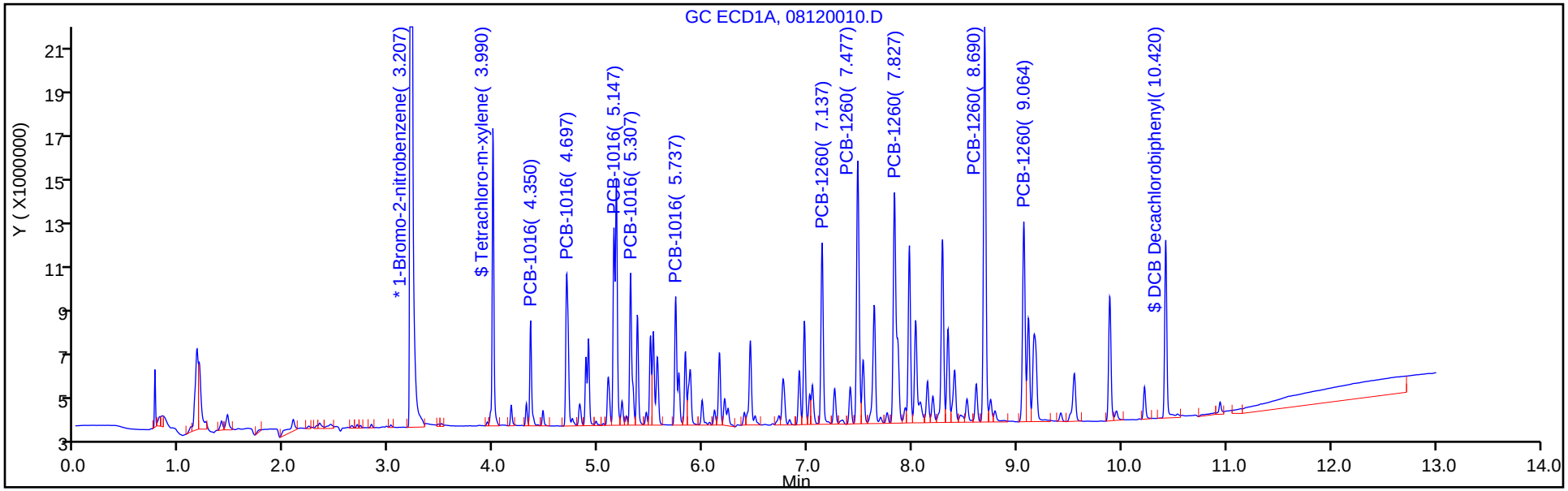
AR_1660_L7_00040	Amount Added: 40.00	Units: uL	
BNB IS_00022	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 15-Aug-2022 10:39:17 Chrom Revision: 2.3 08-Aug-2022 16:03:06

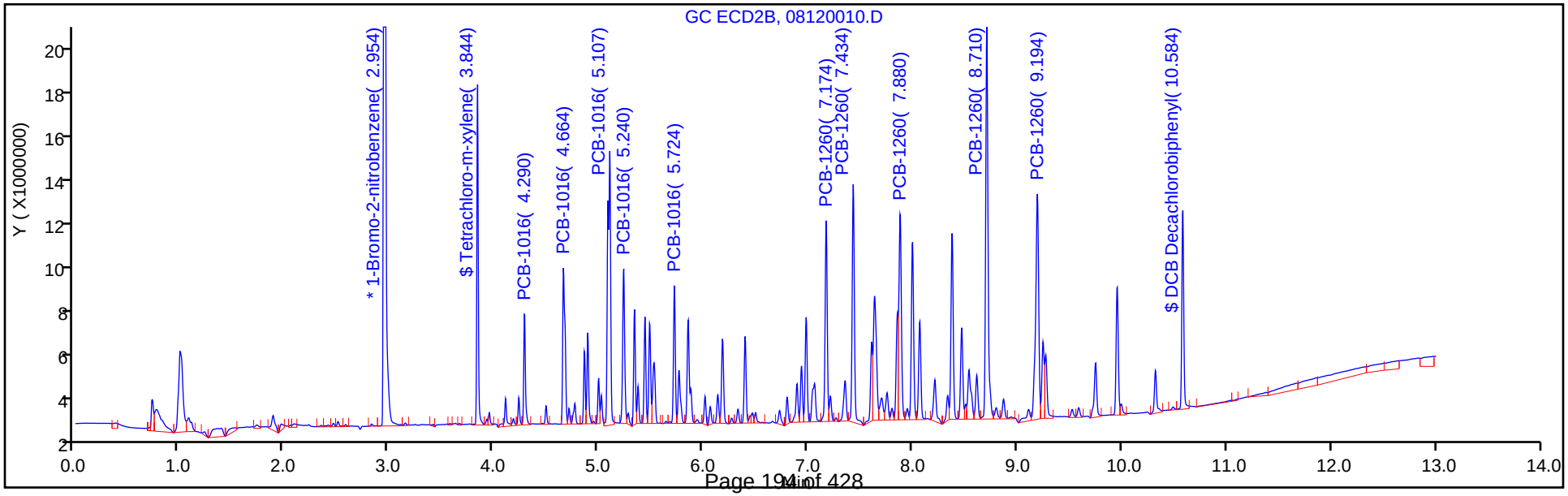
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120010.D				
Injection Date:	12-Aug-2022 13:04:08	Instrument ID:	SGC_P3	Operator ID:	smp
Lims ID:	STD4			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2

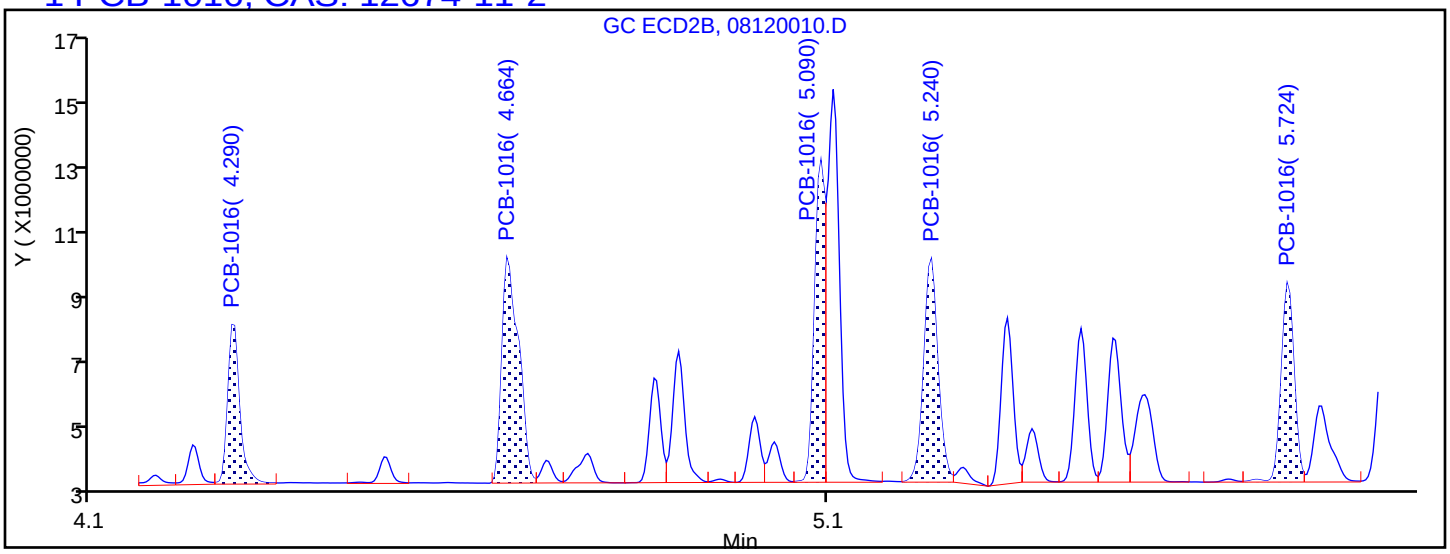


Report Date: 15-Aug-2022 10:39:17 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Denver

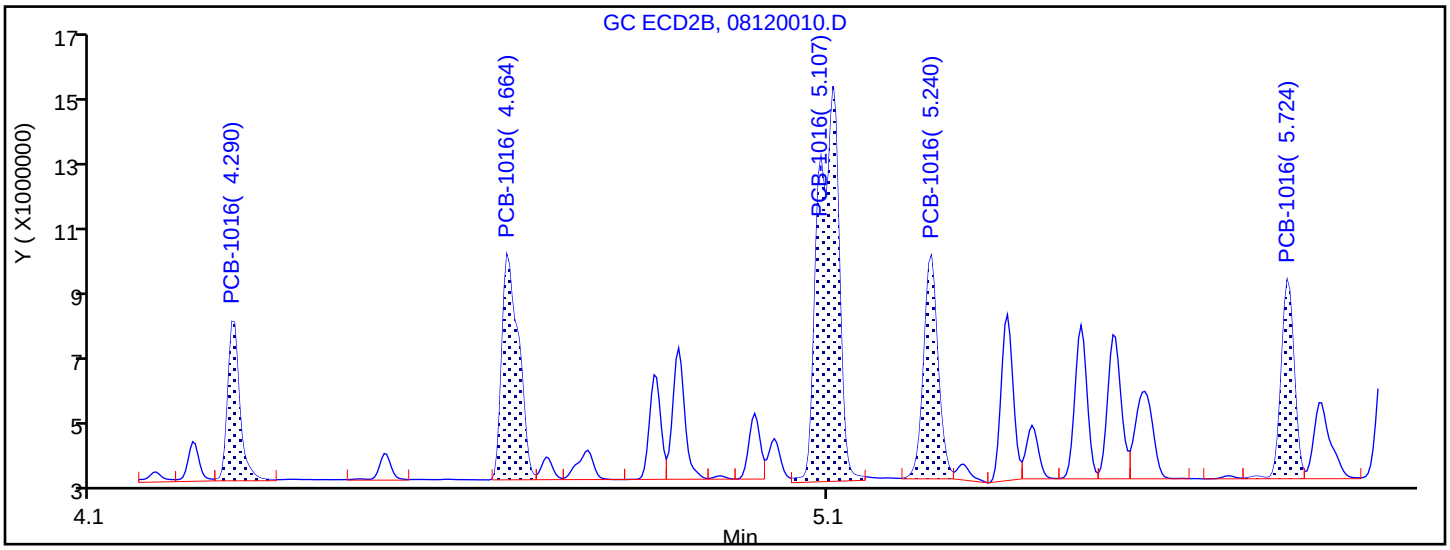
Data File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120010.D
Injection Date: 12-Aug-2022 13:04:08 Instrument ID: SGC_P3
Lims ID: STD4
Client ID:
Operator ID: smp ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCB_P3 Limit Group: GCSV - 8082A - IS
Column: CLP2 Pesticides Column 2 (0.32 mm) Detector GC ECD2B

1 PCB-1016, CAS: 12674-11-2



Processing Integration Results

4.290	Response = 5283060
4.664	Response = 10319182
5.090	Response = 9027809
5.240	Response = 8780449
5.724	Response = 7077695



Manual Integration Results

4.290	Response = 5283060	
4.664	Response = 10319182	
5.107	Response = 22147356	M
5.240	Response = 8780449	
5.724	Response = 7077695	

Reviewer: USP3, 15-Aug-2022 10:19:13
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120011.D				
Lims ID:	STD3				
Client ID:					
Sample Type:	IC	Calib Level:	3		
Inject. Date:	12-Aug-2022 13:23:40	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	STD3				
Misc. Info.:	280-0113425-011				
Operator ID:	smp	Instrument ID:	SGC_P3		
Sublist:	chrom-PCB_P3*sub1				
Method:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\PCB_P3.m				
Limit Group:	GCSV - 8082A - IS				
Last Update:	15-Aug-2022 10:39:19	Calib Date:	12-Aug-2022 14:02:47		
Integrator:	Falcon				
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120013.D				
Column 1 :	CLP1 Pesticides Column 1 (0.32 mm)		Det: GC ECD1A		
Column 2 :	CLP2 Pesticides Column 2 (0.32 mm)		Det: GC ECD2B		
Process Host:	CTX1649				

First Level Reviewer: USP3 Date: 15-Aug-2022 10:14:18

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.206	3.207	-0.001	148880618	100.0	100.0	
2	2.953	2.954	-0.001	129177816	100.0	100.0	
						RPD = 0.00	
$ 14 Tetrachloro-m-xylene							
1	3.990	3.990	0.000	9021887	5.00	5.18	
2	3.843	3.844	-0.001	7932319	5.00	5.18	
						RPD = 0.02	
1 PCB-1016							M
1	4.350	4.350	0.000	3501676	100.0	108.8	
1	4.696	4.697	-0.001	7170705	100.0	110.9	
1	5.146	5.147	-0.001	14291038	100.0	108.5	
1	5.306	5.307	-0.001	6217378	100.0	109.6	
1	5.736	5.737	-0.001	6392420	100.0	108.0	
		Average of Peak Amounts =				109.2	
2	4.293	4.290	0.003	3206217	100.0	110.4	
2	4.663	4.664	-0.001	6115763	100.0	105.4	
2	5.106	5.090	0.016	12684597	100.0	106.1	M
2	5.240	5.240	0.000	5144416	100.0	105.5	
2	5.726	5.724	0.002	4184799	100.0	109.3	
		Average of Peak Amounts =				107.3	
						RPD = 1.67	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12 PCB-1260							
1	7.136	7.137	-0.001	7565922	100.0	110.2	
1	7.476	7.477	-0.001	11942829	100.0	106.3	
1	7.830	7.827	0.003	13600580	100.0	108.7	
1	8.690	8.690	0.000	17890677	100.0	112.1	
1	9.063	9.064	-0.001	9146502	100.0	109.7	
		Average of Peak Amounts =				109.4	
2	7.176	7.174	0.002	7120749	100.0	104.3	
2	7.433	7.434	-0.001	8500122	100.0	105.1	
2	7.883	7.884	-0.001	8623134	100.0	105.9	
2	8.710	8.710	0.000	15229020	100.0	103.6	
2	9.193	9.194	-0.001	11395955	100.0	105.8	
		Average of Peak Amounts =				104.9	
						RPD = 4.14	
$ 15 DCB Decachlorobiphenyl							
1	10.420	10.420	0.000	7015195	5.00	5.25	
2	10.583	10.584	-0.001	6306462	5.00	5.28	
						RPD = 0.47	
S 8 Polychlorinated biphenyls, Total							
1						218.5	
2						212.3	
						RPD = 2.90	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

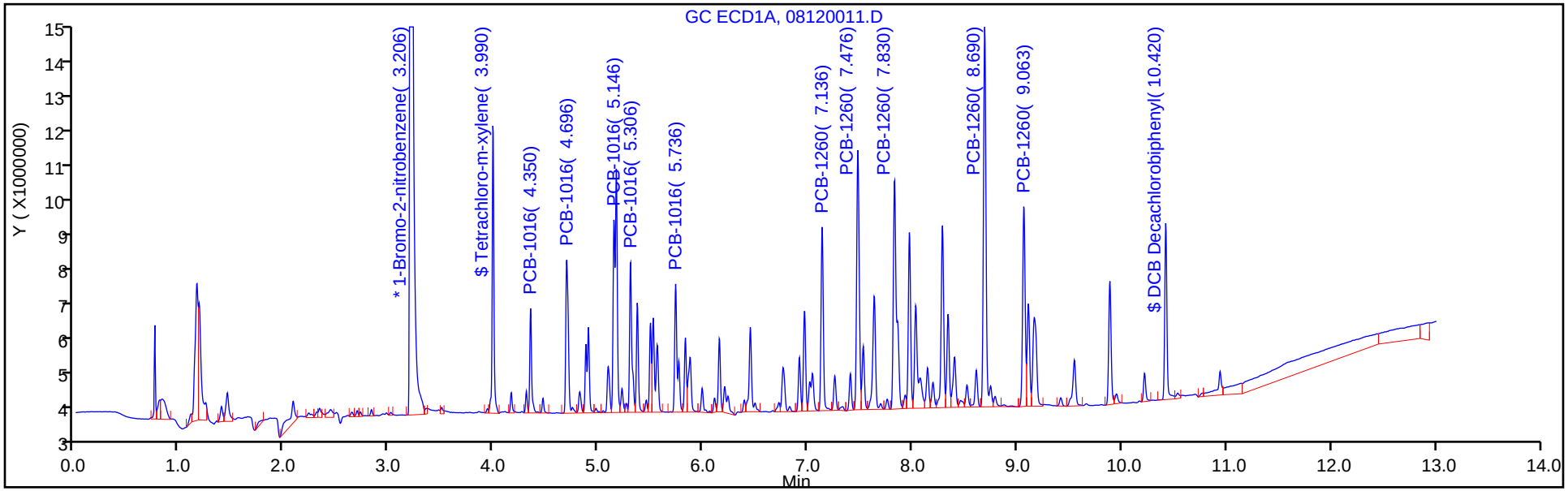
AR_1660_L7_00040	Amount Added: 20.00	Units: uL	
BNB IS_00022	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 15-Aug-2022 10:39:20 Chrom Revision: 2.3 08-Aug-2022 16:03:06

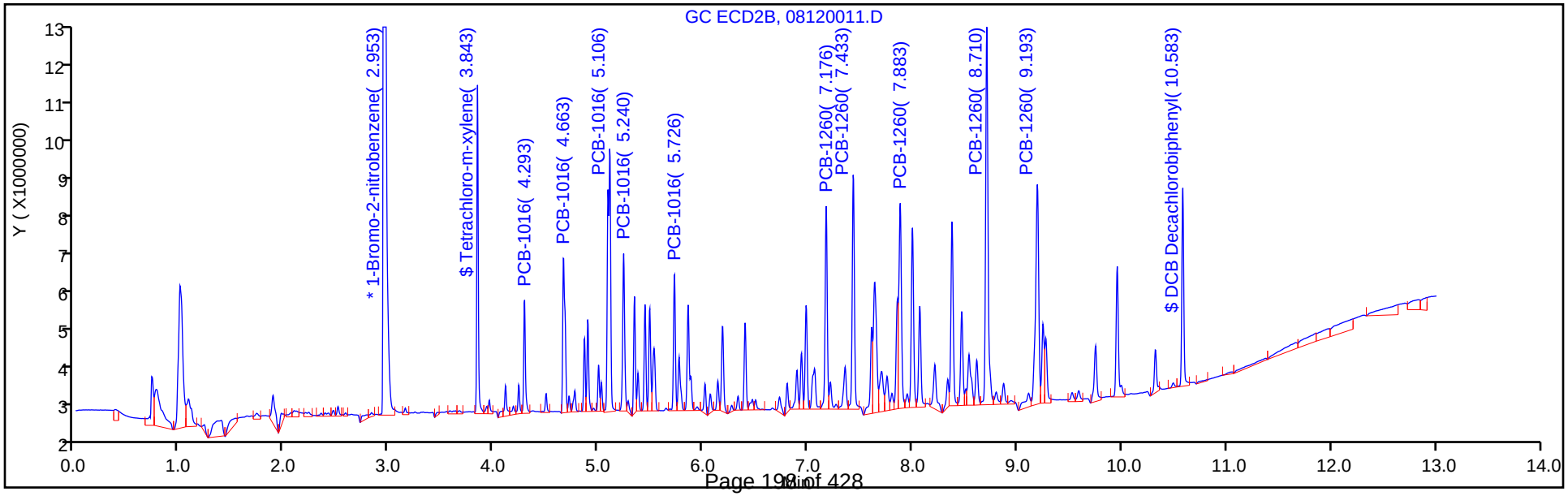
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120011.D				
Injection Date:	12-Aug-2022 13:23:40	Instrument ID:	SGC_P3	Operator ID:	smp
Lims ID:	STD3			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2

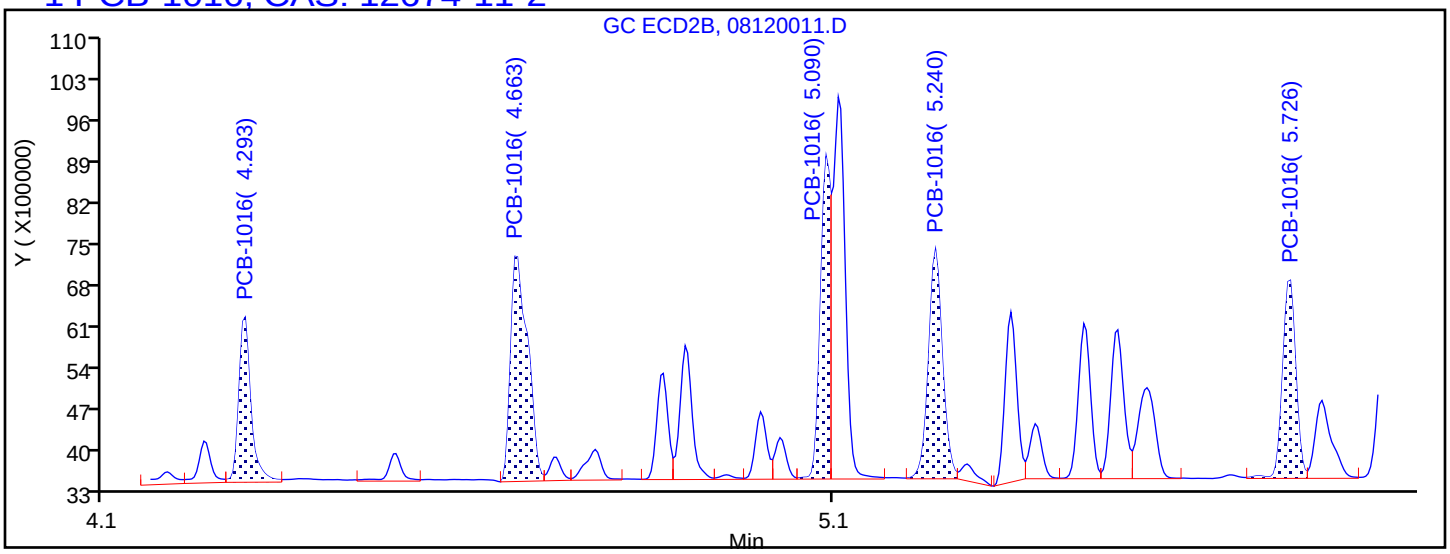


Report Date: 15-Aug-2022 10:39:20 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Denver

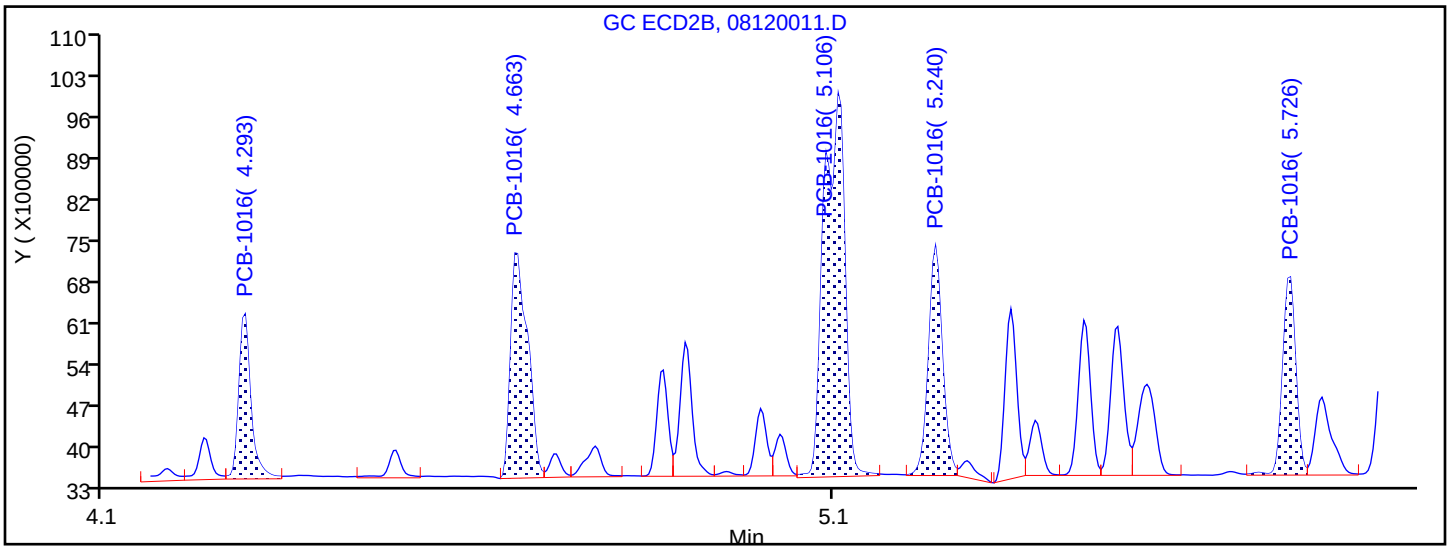
Data File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120011.D
Injection Date: 12-Aug-2022 13:23:40 Instrument ID: SGC_P3
Lims ID: STD3
Client ID:
Operator ID: smp ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCB_P3 Limit Group: GCSV - 8082A - IS
Column: CLP2 Pesticides Column 2 (0.32 mm) Detector GC ECD2B

1 PCB-1016, CAS: 12674-11-2



Processing Integration Results

4.293	Response = 3206217
4.663	Response = 6115763
5.090	Response = 5000203
5.240	Response = 5144416
5.726	Response = 4184799



Manual Integration Results

4.293	Response = 3206217	
4.663	Response = 6115763	
5.106	Response = 12684597	M
5.240	Response = 5144416	
5.726	Response = 4184799	

Reviewer: USP3, 15-Aug-2022 10:20:45
Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120012.D
Lims ID: STD2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 12-Aug-2022 13:43:10 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: STD2
Misc. Info.: 280-0113425-012
Operator ID: smp Instrument ID: SGC_P3
Sublist: chrom-PCB_P3*sub1

Method: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\PCB_P3.m
Limit Group: GCSV - 8082A - IS
Last Update: 15-Aug-2022 10:39:22 Calib Date: 12-Aug-2022 14:02:47
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120013.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
Process Host: CTX1649

First Level Reviewer: USP3 Date: 15-Aug-2022 10:14:25

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.206	3.207	-0.001	141681674	100.0	100.0	
2	2.952	2.954	-0.002	123252056	100.0	100.0	
						RPD = 0.00	
$ 14 Tetrachloro-m-xylene							
1	3.989	3.990	-0.001	4559939	2.50	2.58	
2	3.842	3.844	-0.002	4109892	2.50	2.60	
						RPD = 0.73	
1 PCB-1016							M
1	4.349	4.350	-0.001	1720144	50.0	56.2	
1	4.696	4.697	-0.001	3415874	50.0	50.9	
1	5.146	5.147	-0.001	7138970	50.0	52.7	
1	5.306	5.307	-0.001	3090684	50.0	52.9	
1	5.736	5.737	-0.001	3156985	50.0	56.0	
		Average of Peak Amounts =				53.8	
2	4.292	4.290	0.002	1772598	50.0	52.1	
2	4.666	4.664	0.002	3234146	50.0	50.0	
2	5.106	5.090	0.016	6357276	50.0	51.5	M
2	5.239	5.240	-0.001	2663819	50.0	52.8	M
2	5.726	5.724	0.002	2135914	50.0	53.3	
		Average of Peak Amounts =				52.0	
						RPD = 3.39	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12 PCB-1260							M
1	7.136	7.137	-0.001	3720606	50.0	52.1	
1	7.479	7.477	0.002	5907150	50.0	47.5	
1	7.829	7.827	0.002	6623885	50.0	50.9	
1	8.692	8.690	0.002	8773602	50.0	52.4	
1	9.066	9.064	0.002	4471426	50.0	51.5	
		Average of Peak Amounts =				50.9	
2	7.176	7.174	0.002	3686827	50.0	48.2	
2	7.436	7.434	0.002	4412687	50.0	50.8	
2	7.882	7.884	-0.002	4701163	50.0	55.1	M
2	8.709	8.710	-0.001	8116672	50.0	51.9	
2	9.196	9.194	0.002	6045877	50.0	52.1	
		Average of Peak Amounts =				51.6	
						RPD = 1.43	
$ 15 DCB Decachlorobiphenyl							
1	10.422	10.420	0.002	3267342	2.50	2.48	
2	10.582	10.584	-0.002	3458366	2.50	3.03	
						RPD = 20.08	
S 8 Polychlorinated biphenyls, Total							
1						104.6	
2						103.6	
						RPD = 1.02	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

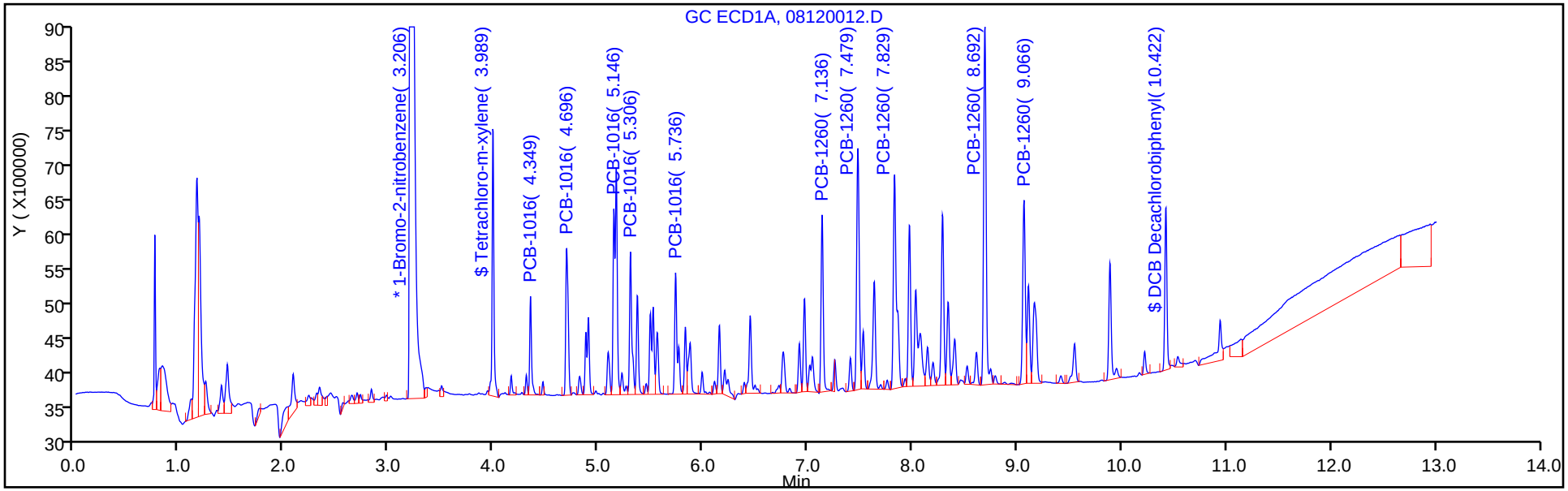
AR_1660_L7_00040	Amount Added: 10.00	Units: uL	
BNB IS_00022	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 15-Aug-2022 10:39:23 Chrom Revision: 2.3 08-Aug-2022 16:03:06

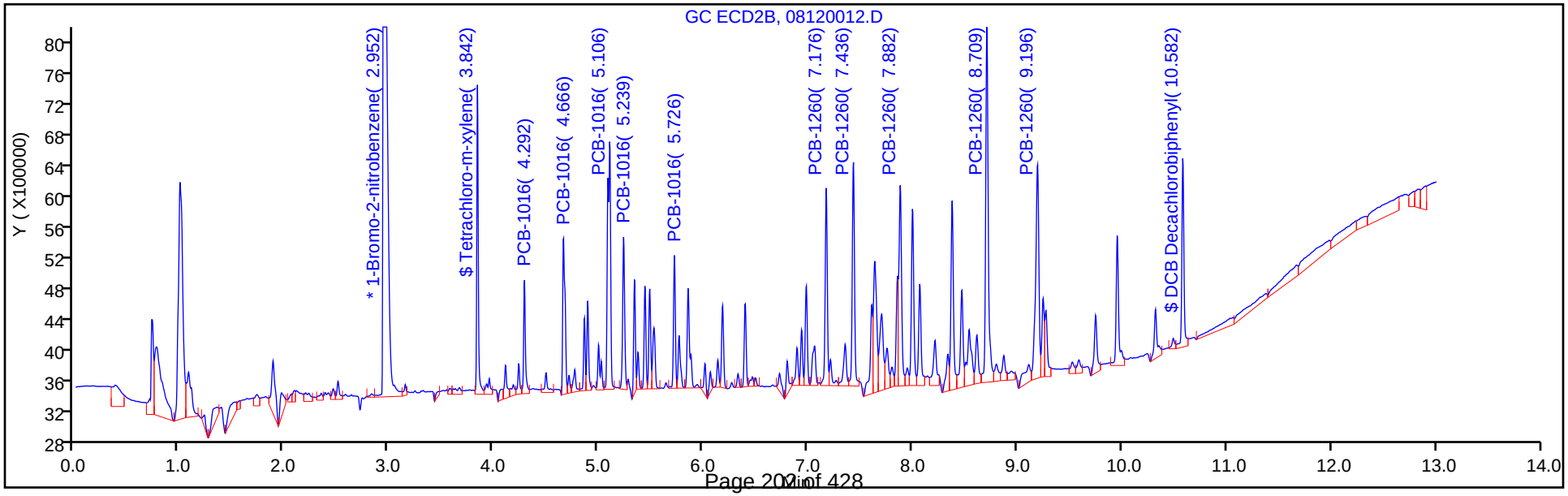
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120012.D				
Injection Date:	12-Aug-2022 13:43:10	Instrument ID:	SGC_P3	Operator ID:	smp
Lims ID:	STD2			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2

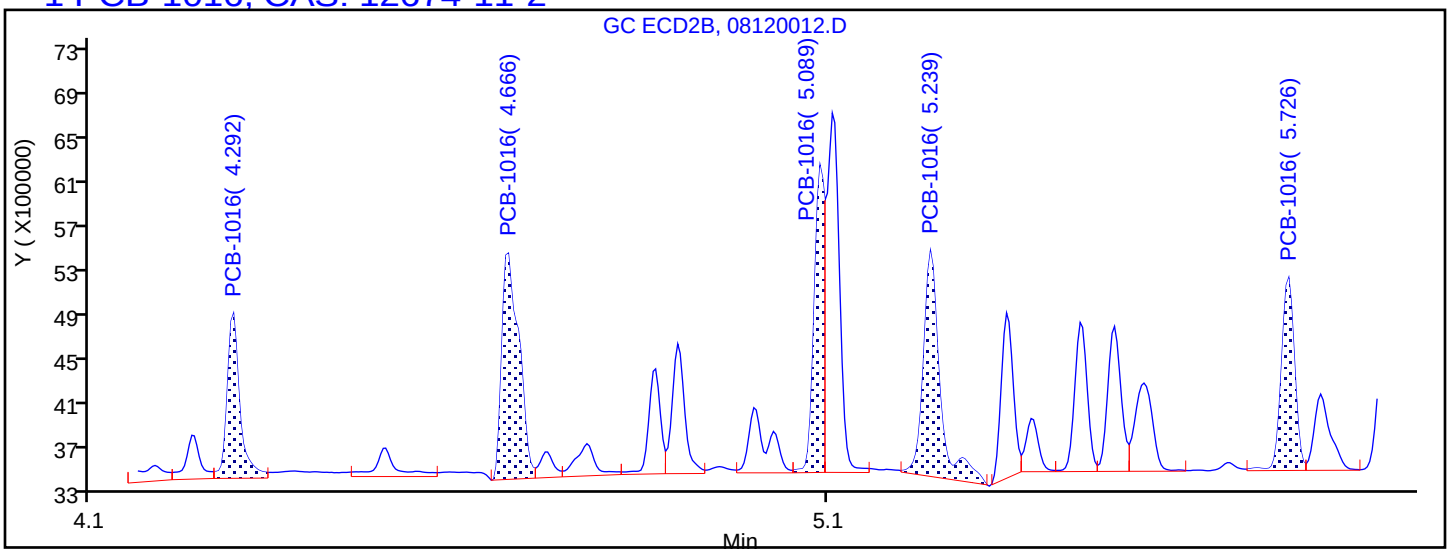


Report Date: 15-Aug-2022 10:39:23 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Denver

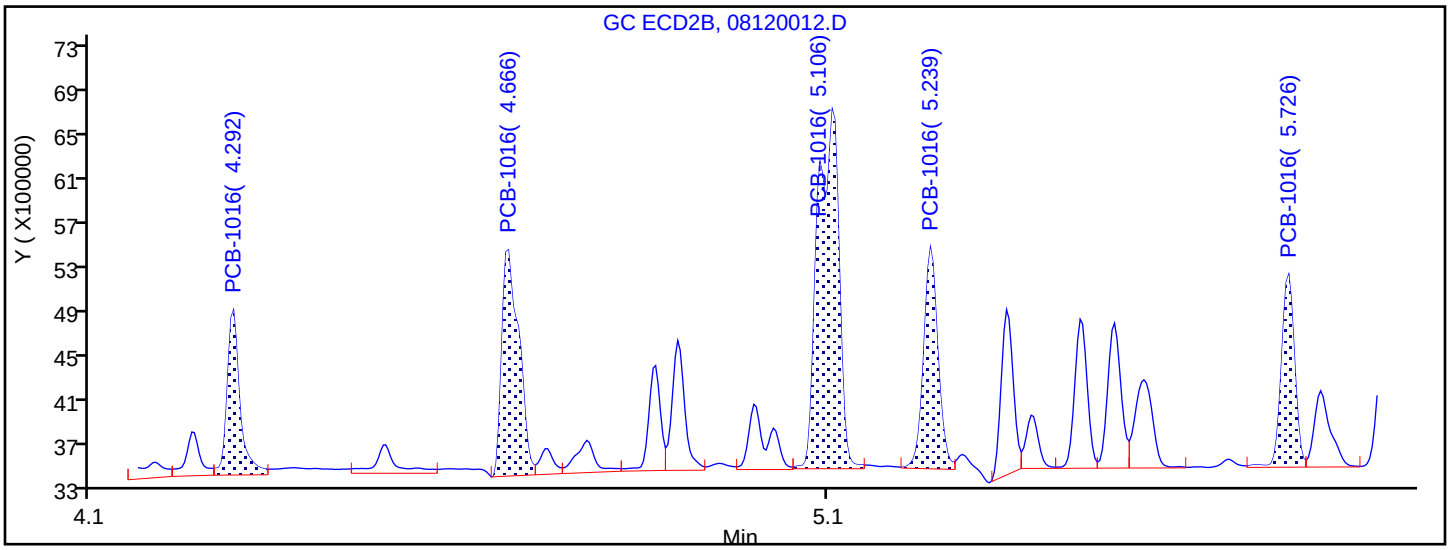
Data File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120012.D
Injection Date: 12-Aug-2022 13:43:10 Instrument ID: SGC_P3
Lims ID: STD2
Client ID:
Operator ID: smp ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCB_P3 Limit Group: GCSV - 8082A - IS
Column: CLP2 Pesticides Column 2 (0.32 mm) Detector GC ECD2B

1 PCB-1016, CAS: 12674-11-2



Processing Integration Results

4.292	Response = 1772598
4.666	Response = 3234146
5.089	Response = 2549636
5.239	Response = 3155326
5.726	Response = 2135914



Manual Integration Results

4.292	Response = 1772598	
4.666	Response = 3234146	
5.106	Response = 6357276	M
5.239	Response = 2663819	M
5.726	Response = 2135914	

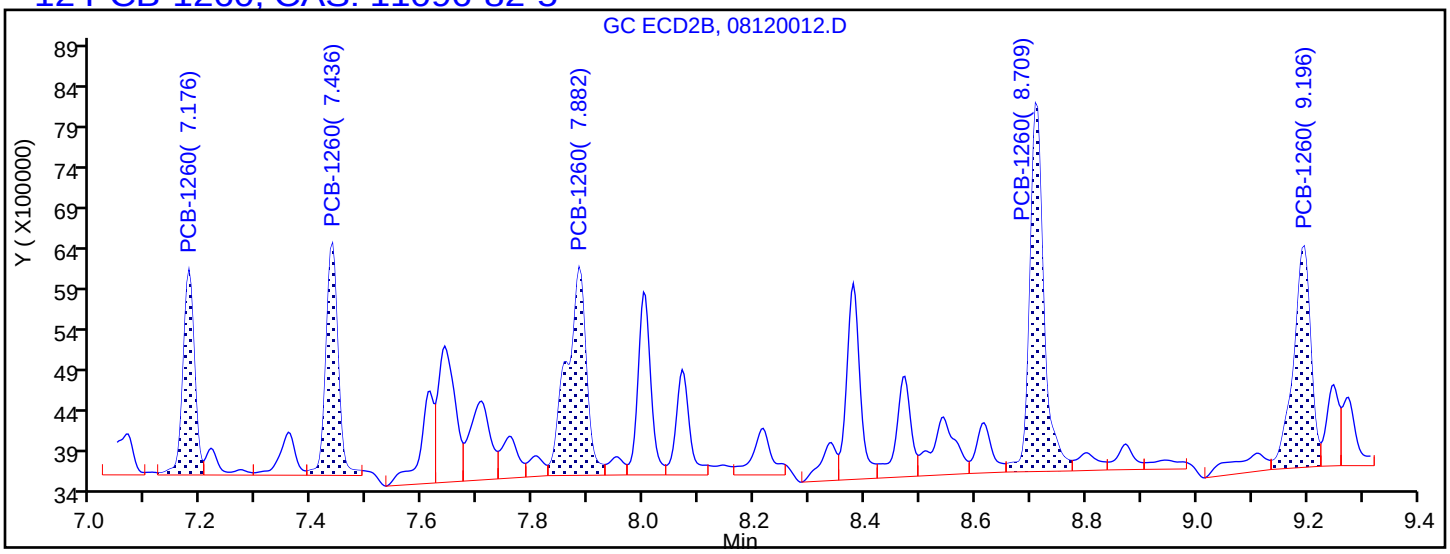
Reviewer: USP3, 15-Aug-2022 10:21:28
Audit Action: Manually Integrated Audit Reason: Split Peak

Report Date: 15-Aug-2022 10:39:23 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Denver

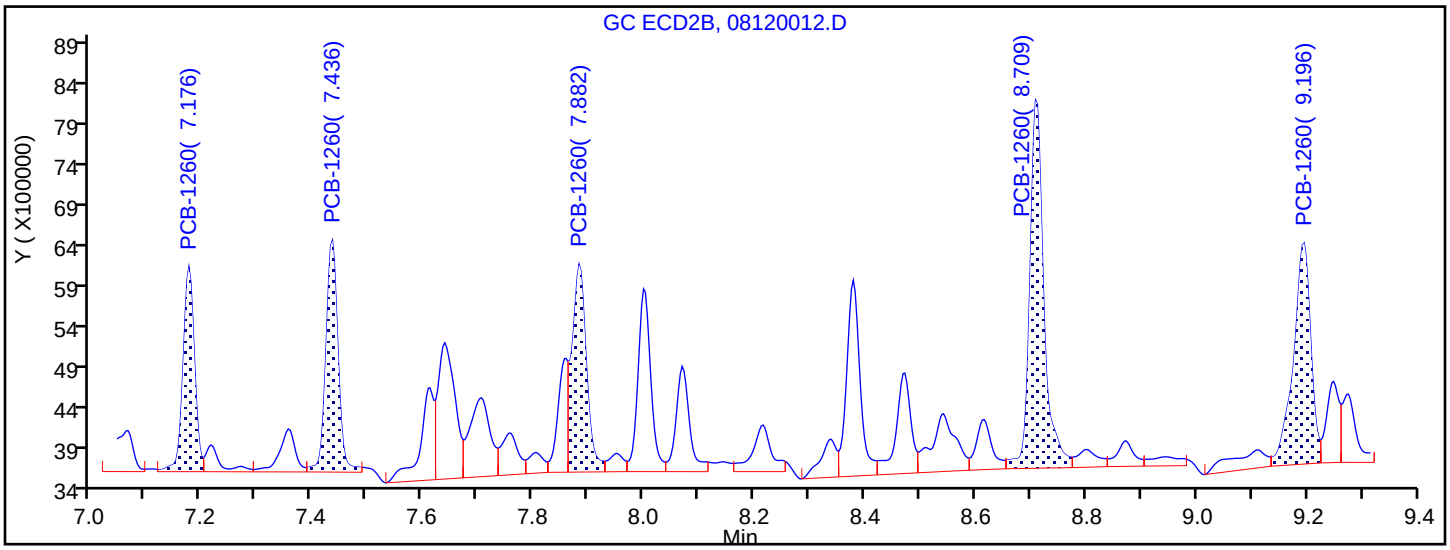
Data File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120012.D
Injection Date: 12-Aug-2022 13:43:10 Instrument ID: SGC_P3
Lims ID: STD2
Client ID:
Operator ID: smp ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCB_P3 Limit Group: GCSV - 8082A - IS
Column: CLP2 Pesticides Column 2 (0.32 mm) Detector GC ECD2B

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

7.176	Response = 3686827
7.436	Response = 4412687
7.882	Response = 6432192
8.709	Response = 8116672
9.196	Response = 6045877



Manual Integration Results

7.176	Response = 3686827	
7.436	Response = 4412687	
7.882	Response = 4701163	M
8.709	Response = 8116672	
9.196	Response = 6045877	

Reviewer: USP3, 15-Aug-2022 10:22:25
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120013.D				
Lims ID:	STD1				
Client ID:					
Sample Type:	IC	Calib Level:	1		
Inject. Date:	12-Aug-2022 14:02:47	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	STD1				
Misc. Info.:	280-0113425-013				
Operator ID:	smp	Instrument ID:	SGC_P3		
Sublist:	chrom-PCB_P3*sub1				
Method:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\PCB_P3.m				
Limit Group:	GCSV - 8082A - IS				
Last Update:	15-Aug-2022 10:38:51	Calib Date:	12-Aug-2022 14:02:47		
Integrator:	Falcon				
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120013.D				
Column 1 :	CLP1 Pesticides Column 1 (0.32 mm)		Det: GC ECD1A		
Column 2 :	CLP2 Pesticides Column 2 (0.32 mm)		Det: GC ECD2B		
Process Host:	CTX1649				

First Level Reviewer: USP3 Date: 15-Aug-2022 10:14:31

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.206	3.207	-0.001	140031173	100.0	100.0	
2	2.953	2.954	-0.001	121209810	100.0	100.0	
						RPD = 0.00	
$ 14 Tetrachloro-m-xylene							
1	3.990	3.990	0.000	2424388	1.25	1.22	
2	3.843	3.844	-0.001	2212549	1.25	1.21	
						RPD = 0.66	
1 PCB-1016							M
1	4.350	4.350	0.000	896785	25.0	29.6	
1	4.696	4.697	-0.001	1858778	25.0	23.9	
1	5.170	5.147	0.023	3729627	25.0	23.7	
1	5.306	5.307	-0.001	1607900	25.0	23.6	
1	5.736	5.737	-0.001	1644345	25.0	29.5	
		Average of Peak Amounts =				26.1	
2	4.293	4.290	0.003	1008049	25.0	18.3	
2	4.663	4.664	-0.001	2002273	25.0	24.5	
2	5.106	5.090	0.016	3421282	25.0	24.2	M
2	5.240	5.240	0.000	1409262	25.0	23.9	M
2	5.723	5.724	-0.001	1127193	25.0	23.5	
		Average of Peak Amounts =				22.9	
						RPD = 13.04	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12 PCB-1260							M
1	7.136	7.137	-0.001	1998625	25.0	23.7	
1	7.476	7.477	-0.001	3774535	25.0	25.0	
1	7.830	7.827	0.003	3646365	25.0	24.1	
1	8.690	8.690	0.000	4751322	25.0	23.6	
1	9.063	9.064	-0.001	2436059	25.0	23.9	M
		Average of Peak Amounts =				24.1	
2	7.176	7.174	0.002	2363427	25.0	25.1	
2	7.436	7.434	0.002	2572711	25.0	24.4	
2	7.883	7.884	-0.001	2456004	25.0	23.4	M
2	8.710	8.710	0.000	4618496	25.0	24.3	
2	9.193	9.194	-0.001	3471830	25.0	24.0	
		Average of Peak Amounts =				24.2	
						RPD = 0.60	
$ 15 DCB Decachlorobiphenyl							
1	10.420	10.420	0.000	1722187	1.25	1.24	
2	10.583	10.584	-0.001	1653289	1.25	1.47	
						RPD = 17.35	
S 8 Polychlorinated biphenyls, Total							
1						50.2	
2						47.1	
						RPD = 6.27	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

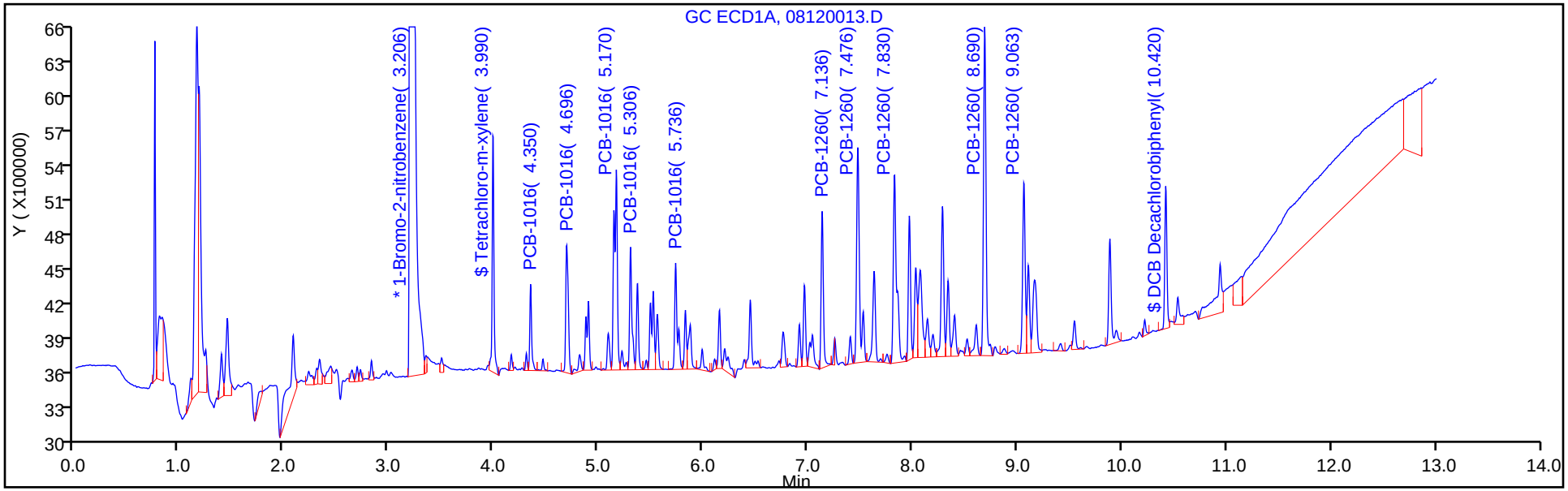
AR_1660_L7_00040	Amount Added: 5.00	Units: uL	
BNB IS_00022	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 15-Aug-2022 10:38:52 Chrom Revision: 2.3 08-Aug-2022 16:03:06

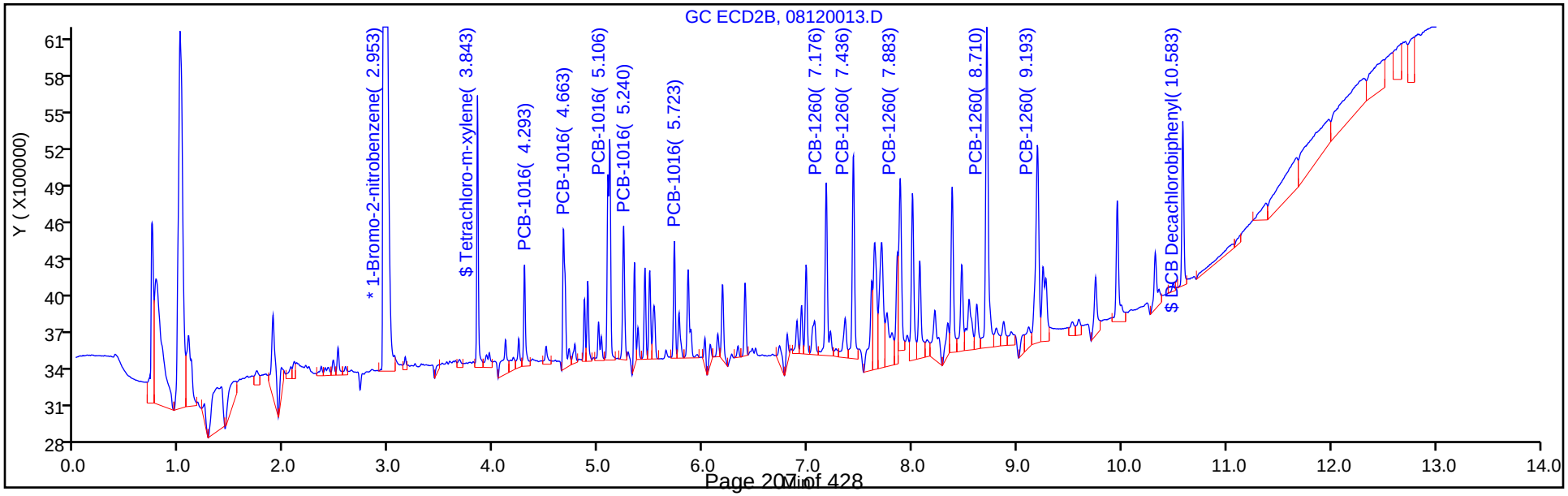
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120013.D				
Injection Date:	12-Aug-2022 14:02:47	Instrument ID:	SGC_P3	Operator ID:	smp
Lims ID:	STD1			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2

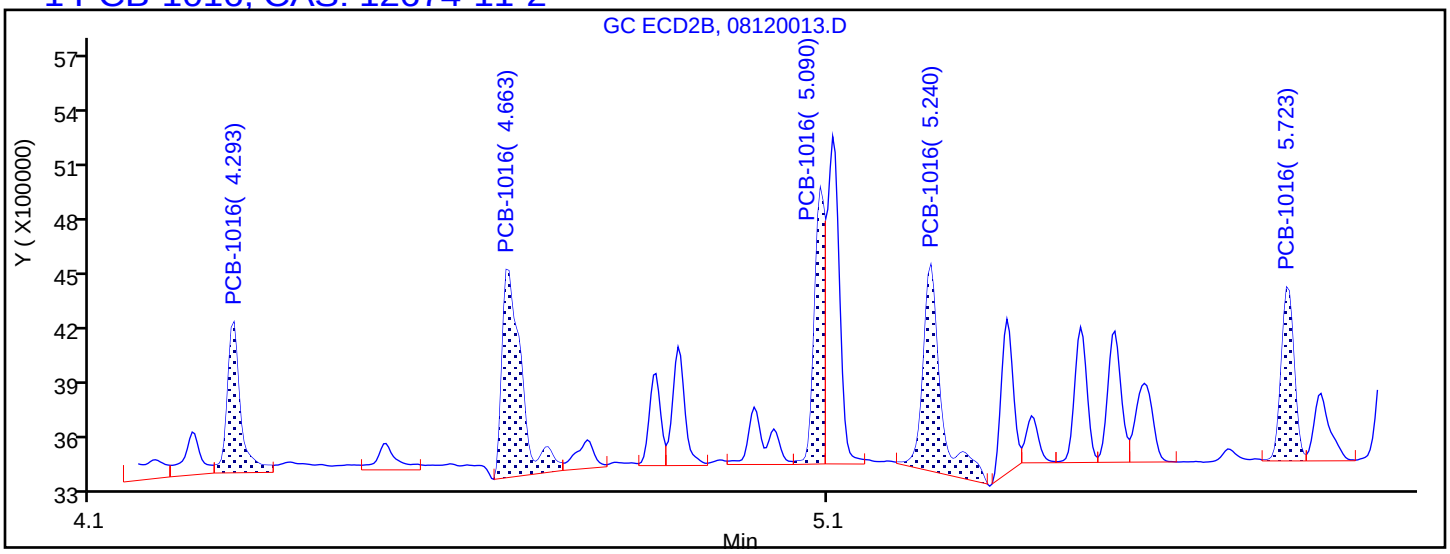


Report Date: 15-Aug-2022 10:38:52 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Denver

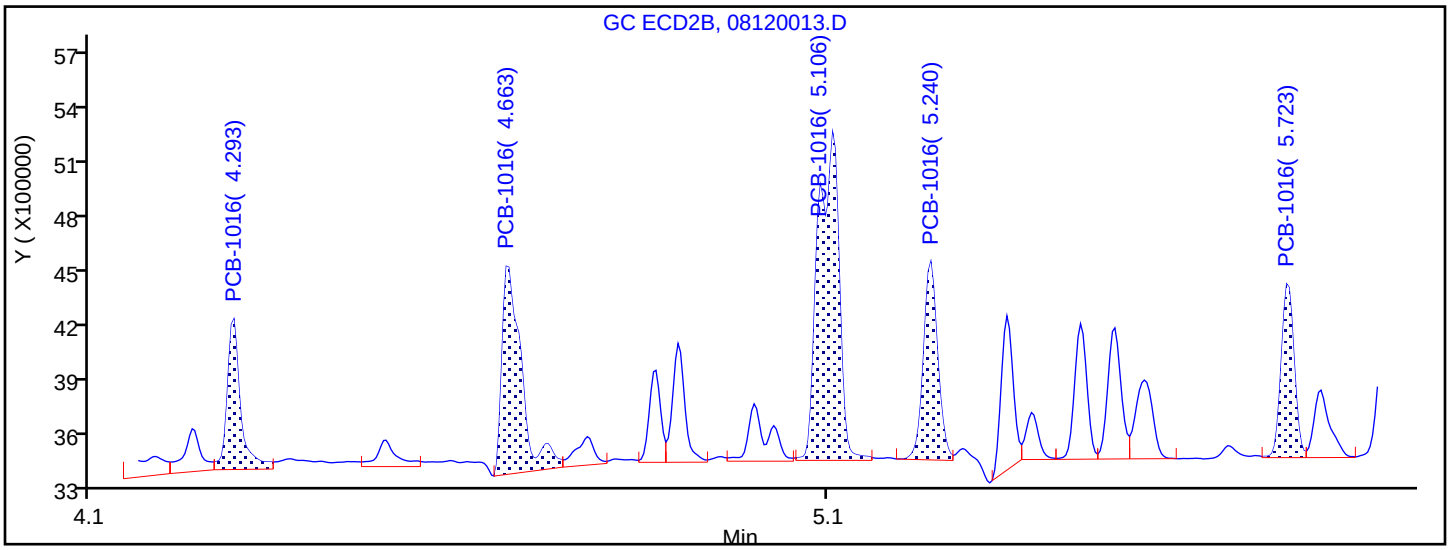
Data File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120013.D
Injection Date: 12-Aug-2022 14:02:47 Instrument ID: SGC_P3
Lims ID: STD1
Client ID:
Operator ID: smp ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCB_P3 Limit Group: GCSV - 8082A - IS
Column: CLP2 Pesticides Column 2 (0.32 mm) Detector GC ECD2B

1 PCB-1016, CAS: 12674-11-2



Processing Integration Results

4.293	Response = 1008049
4.663	Response = 2002273
5.090	Response = 1382833
5.240	Response = 1850720
5.723	Response = 1127193



Manual Integration Results

4.293	Response = 1008049	
4.663	Response = 2002273	
5.106	Response = 3421282	M
5.240	Response = 1409262	M
5.723	Response = 1127193	

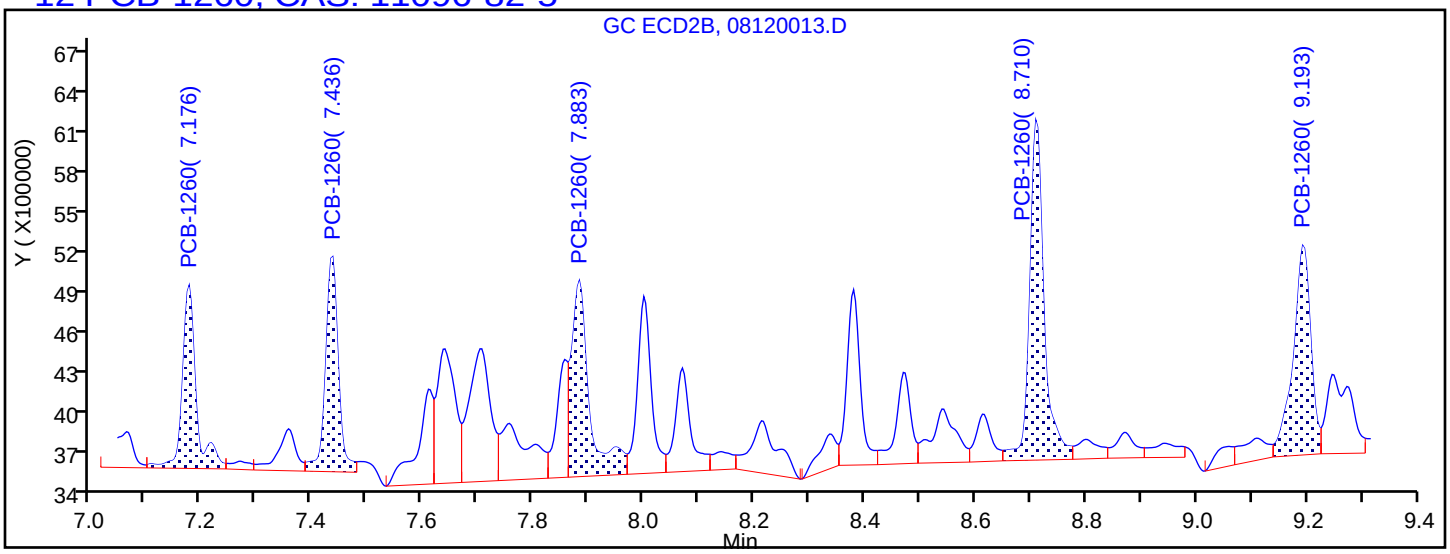
Reviewer: USP3, 15-Aug-2022 10:22:57
Audit Action: Manually Integrated Audit Reason: Split Peak

Report Date: 15-Aug-2022 10:38:52 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Denver

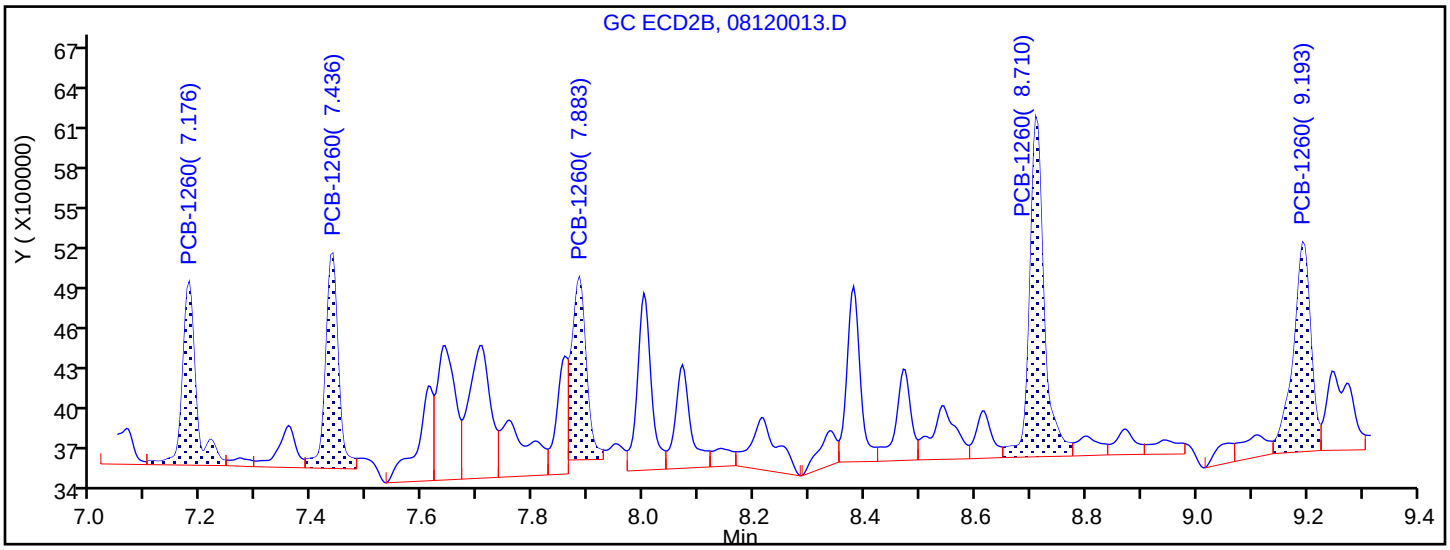
Data File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120013.D
Injection Date: 12-Aug-2022 14:02:47 Instrument ID: SGC_P3
Lims ID: STD1
Client ID:
Operator ID: smp ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCB_P3 Limit Group: GCSV - 8082A - IS
Column: CLP2 Pesticides Column 2 (0.32 mm) Detector GC ECD2B

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

7.176	Response = 2363427
7.436	Response = 2572711
7.883	Response = 3296654
8.710	Response = 4618496
9.193	Response = 3471830



Manual Integration Results

7.176	Response = 2363427	
7.436	Response = 2572711	
7.883	Response = 2456004	M
8.710	Response = 4618496	
9.193	Response = 3471830	

Reviewer: USP3, 15-Aug-2022 10:24:09
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

Calibration / Tetrachloro-m-xylene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

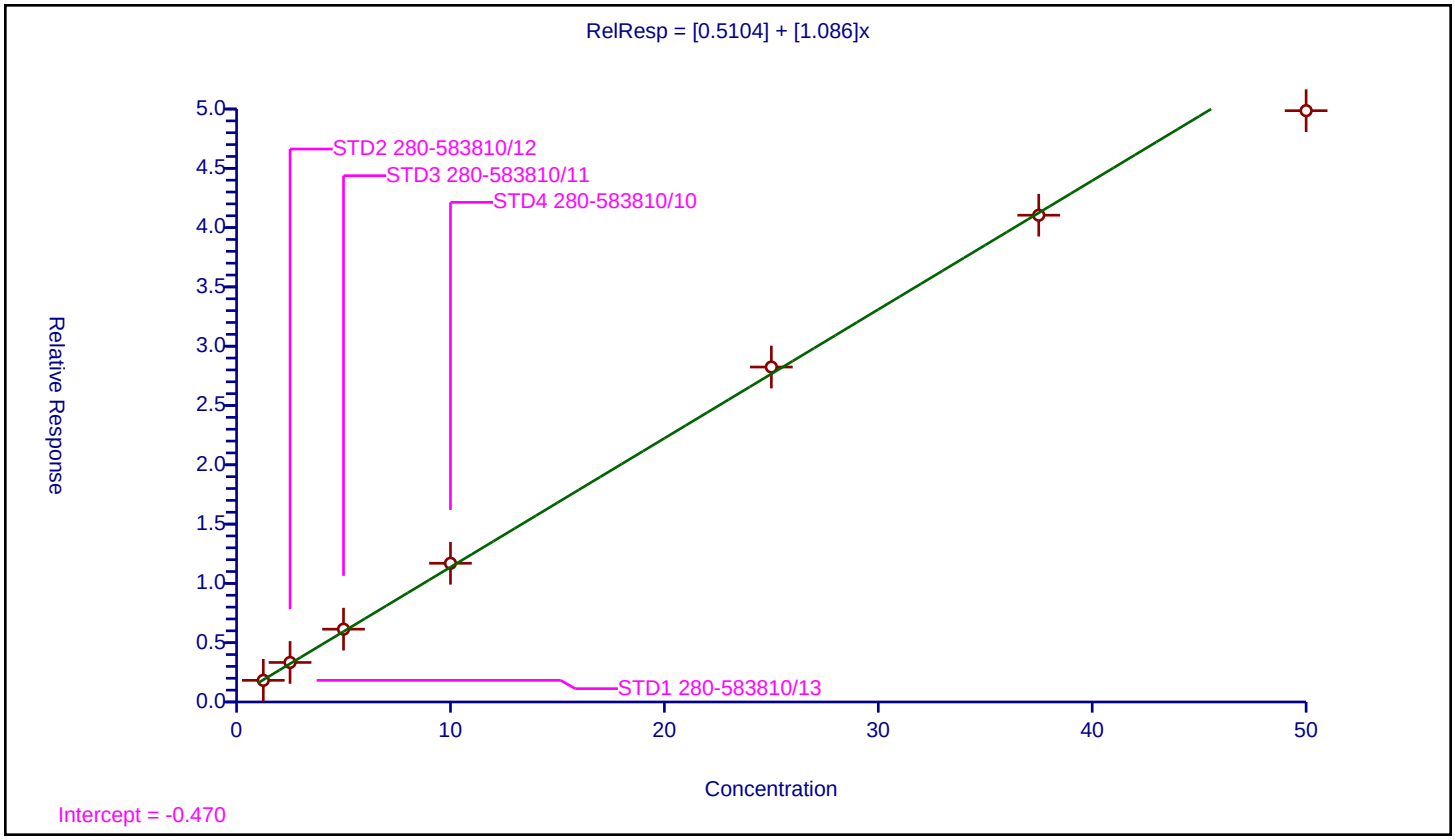
Curve Coefficients

Intercept:	0.5104
Slope:	1.086

Error Coefficients

Standard Error:	39900000
Relative Standard Error:	5.2
Correlation Coefficient:	0.978
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-583810/13	1.25	1.825388	100.0	121209810.0	1.46031	Y
2	STD2 280-583810/12	2.5	3.334542	100.0	123252056.0	1.333817	Y
3	STD3 280-583810/11	5.0	6.14062	100.0	129177816.0	1.228124	Y
4	STD4 280-583810/10	10.0	11.695396	100.0	118230948.0	1.16954	Y
5	ICIS 280-583810/9	25.0	28.243632	100.0	115993086.0	1.129745	Y
6	STD6 280-583810/8	37.5	41.045472	100.0	135992639.0	1.094546	Y
7	STD7 280-583810/7	50.0	49.861434	100.0	118889957.0	0.997229	Y



Calibration / PCB-1016 Peak 1

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

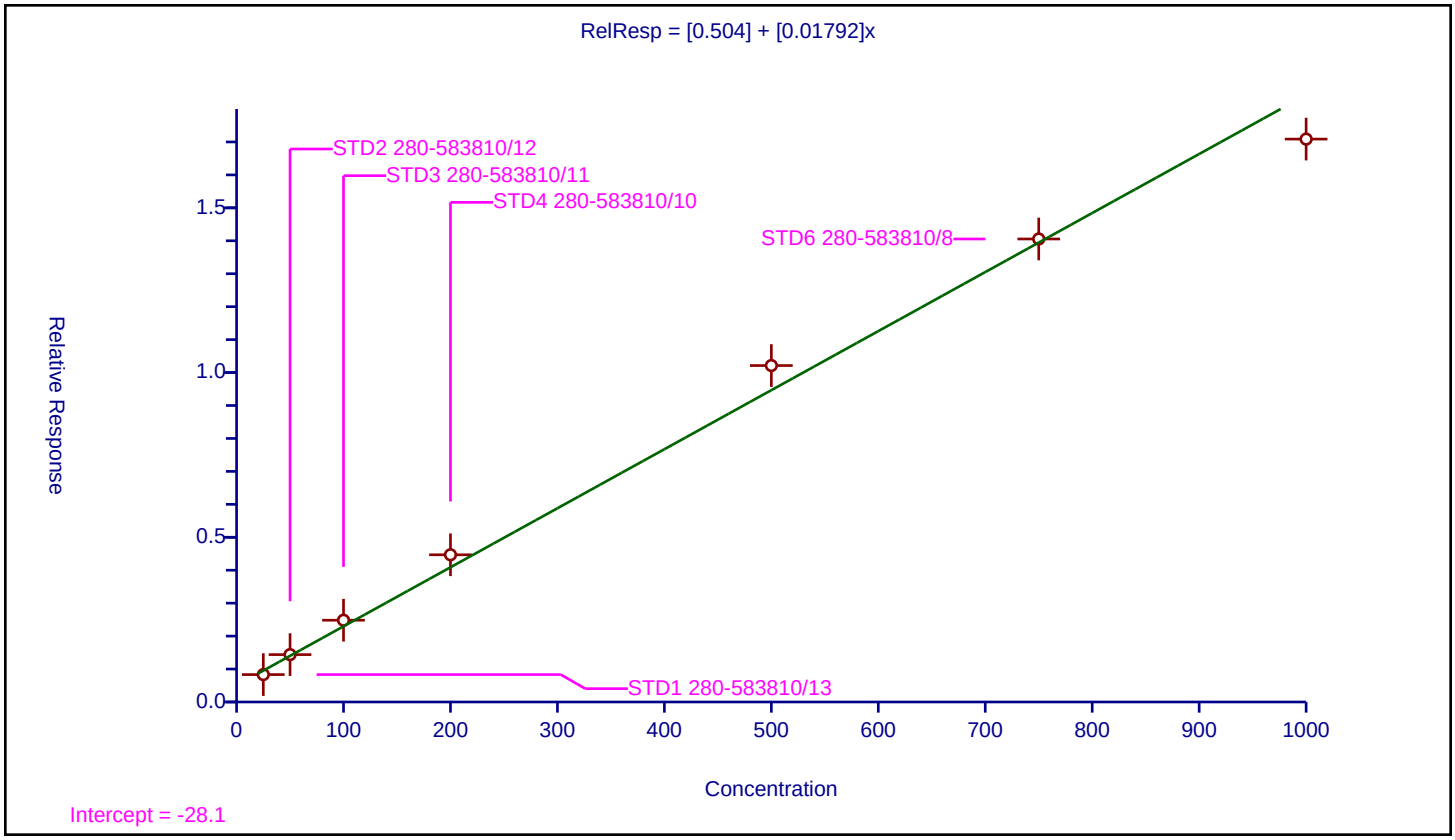
Curve Coefficients

Intercept:	0.504
Slope:	0.01792

Error Coefficients

Standard Error:	13900000
Relative Standard Error:	14.7
Correlation Coefficient:	0.978
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-583810/13	25.0	0.831656	100.0	121209810.0	0.033266	Y
2	STD2 280-583810/12	50.0	1.438189	100.0	123252056.0	0.028764	Y
3	STD3 280-583810/11	100.0	2.482018	100.0	129177816.0	0.02482	Y
4	STD4 280-583810/10	200.0	4.468424	100.0	118230948.0	0.022342	Y
5	ICIS 280-583810/9	500.0	10.213117	100.0	115993086.0	0.020426	Y
6	STD6 280-583810/8	750.0	14.054425	100.0	135992639.0	0.018739	Y
7	STD7 280-583810/7	1000.0	17.086874	100.0	118889957.0	0.017087	Y



Calibration / PCB-1016 Peak 2

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

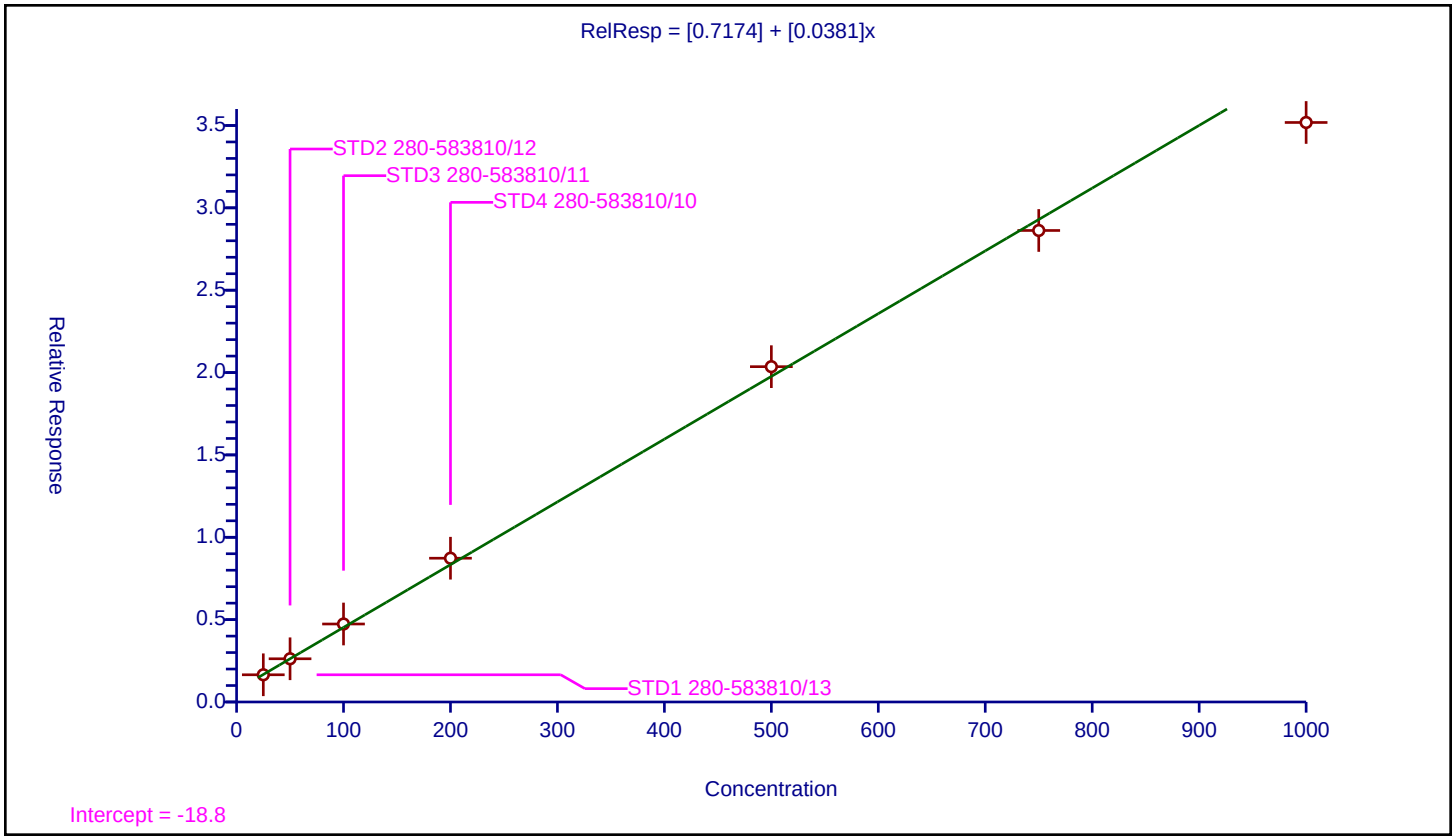
Curve Coefficients

Intercept:	0.7174
Slope:	0.0381

Error Coefficients

Standard Error:	28200000
Relative Standard Error:	5.8
Correlation Coefficient:	0.980
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-583810/13	25.0	1.651907	100.0	121209810.0	0.066076	Y
2	STD2 280-583810/12	50.0	2.62401	100.0	123252056.0	0.05248	Y
3	STD3 280-583810/11	100.0	4.734376	100.0	129177816.0	0.047344	Y
4	STD4 280-583810/10	200.0	8.727987	100.0	118230948.0	0.04364	Y
5	ICIS 280-583810/9	500.0	20.357106	100.0	115993086.0	0.040714	Y
6	STD6 280-583810/8	750.0	28.626253	100.0	135992639.0	0.038168	Y
7	STD7 280-583810/7	1000.0	35.182887	100.0	118889957.0	0.035183	Y



Calibration / PCB-1016 Peak 3

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

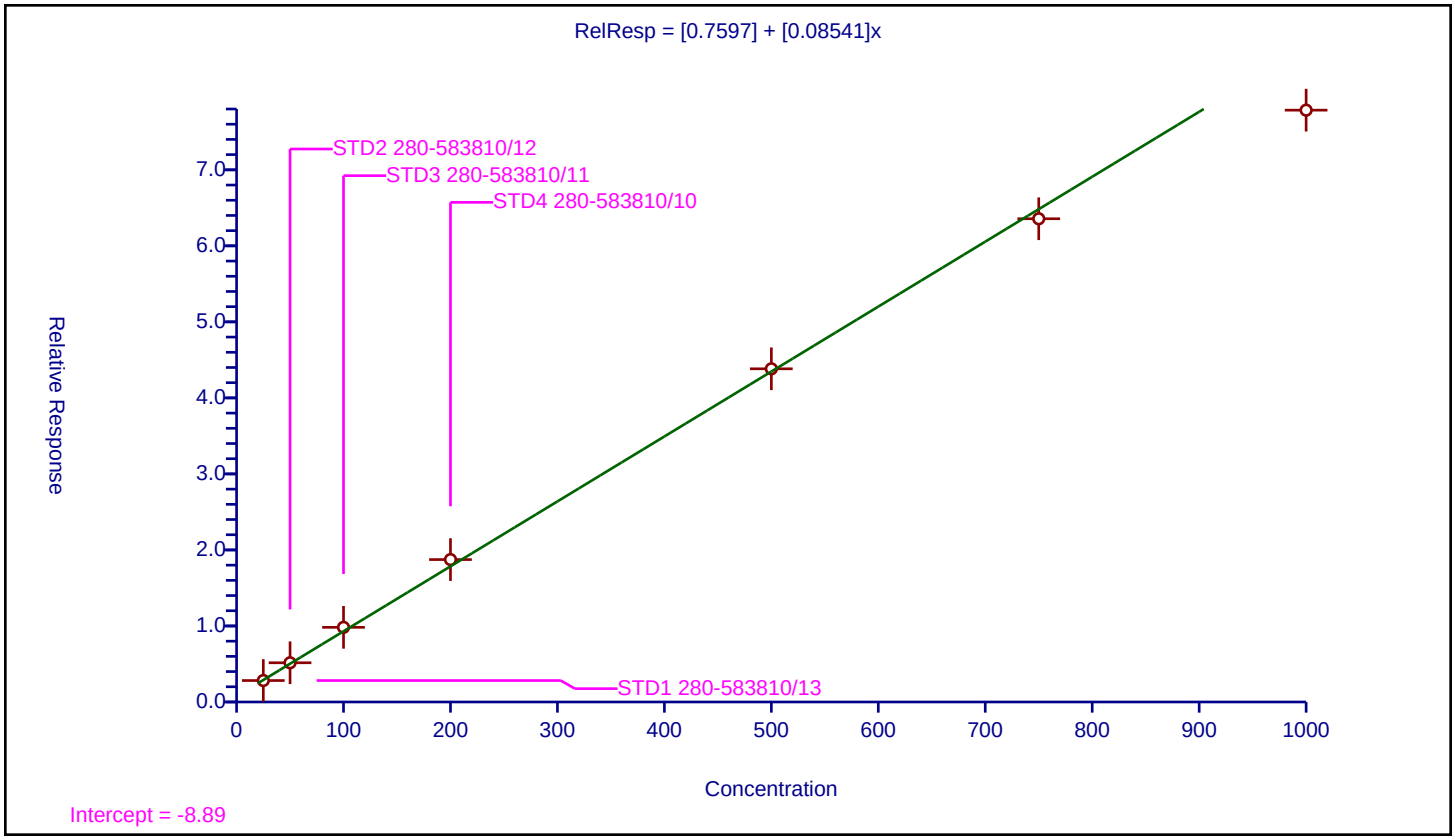
Curve Coefficients

Intercept:	0.7597
Slope:	0.08541

Error Coefficients

Standard Error:	62200000
Relative Standard Error:	6.1
Correlation Coefficient:	0.979
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-583810/13	25.0	2.822611	100.0	121209810.0	0.112904	Y
2	STD2 280-583810/12	50.0	5.157947	100.0	123252056.0	0.103159	Y
3	STD3 280-583810/11	100.0	9.819486	100.0	129177816.0	0.098195	Y
4	STD4 280-583810/10	200.0	18.732283	100.0	118230948.0	0.093661	Y
5	ICIS 280-583810/9	500.0	43.82609	100.0	115993086.0	0.087652	Y
6	STD6 280-583810/8	750.0	63.565353	100.0	135992639.0	0.084754	Y
7	STD7 280-583810/7	1000.0	77.848334	100.0	118889957.0	0.077848	Y



Calibration / PCB-1016 Peak 4

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

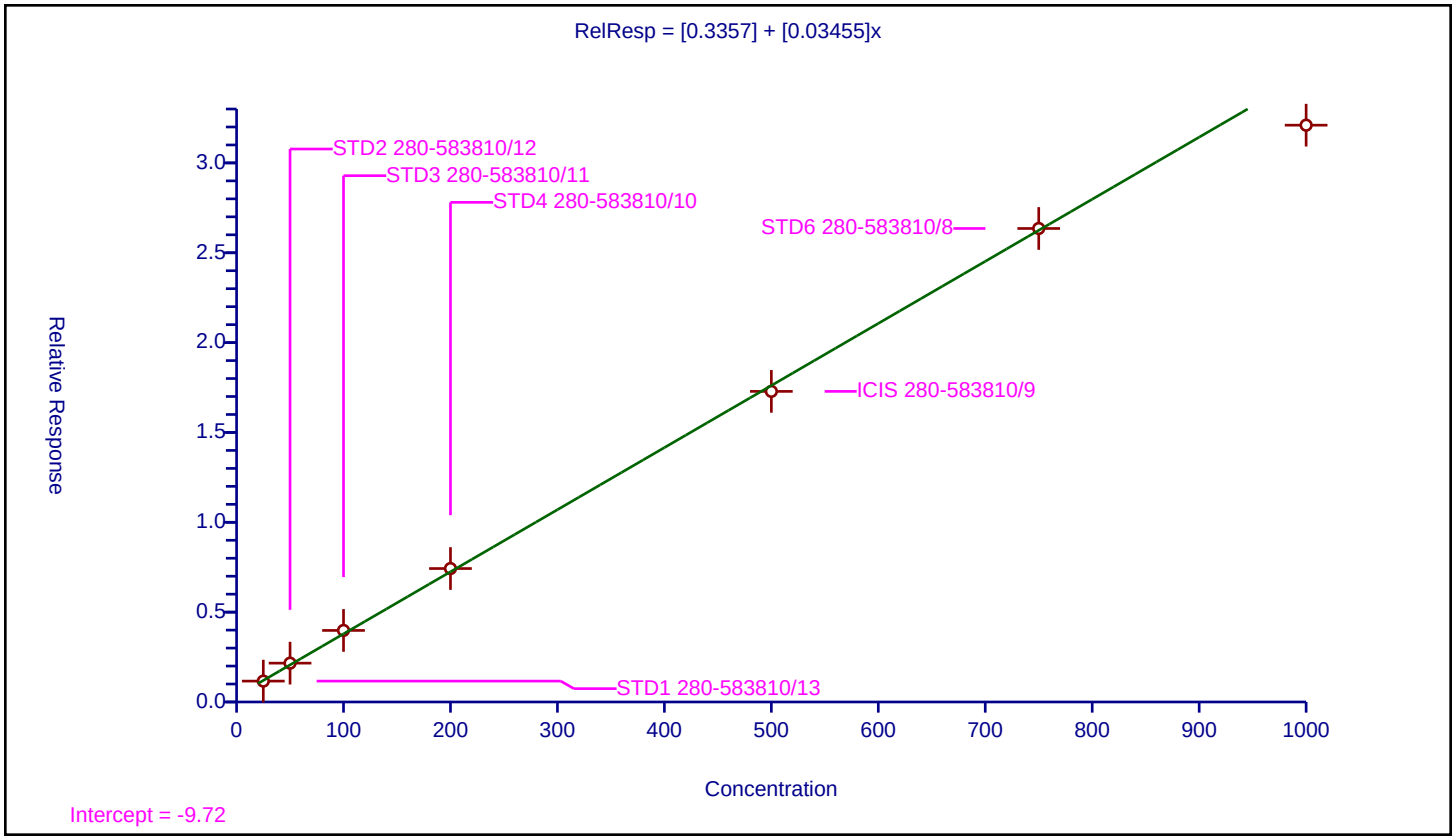
Curve Coefficients

Intercept:	0.3357
Slope:	0.03455

Error Coefficients

Standard Error:	25500000
Relative Standard Error:	5.6
Correlation Coefficient:	0.978
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-583810/13	25.0	1.162663	100.0	121209810.0	0.046507	Y
2	STD2 280-583810/12	50.0	2.161278	100.0	123252056.0	0.043226	Y
3	STD3 280-583810/11	100.0	3.98243	100.0	129177816.0	0.039824	Y
4	STD4 280-583810/10	200.0	7.426523	100.0	118230948.0	0.037133	Y
5	ICIS 280-583810/9	500.0	17.285923	100.0	115993086.0	0.034572	Y
6	STD6 280-583810/8	750.0	26.351956	100.0	135992639.0	0.035136	Y
7	STD7 280-583810/7	1000.0	32.100953	100.0	118889957.0	0.032101	Y



Calibration / PCB-1016 Peak 5

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

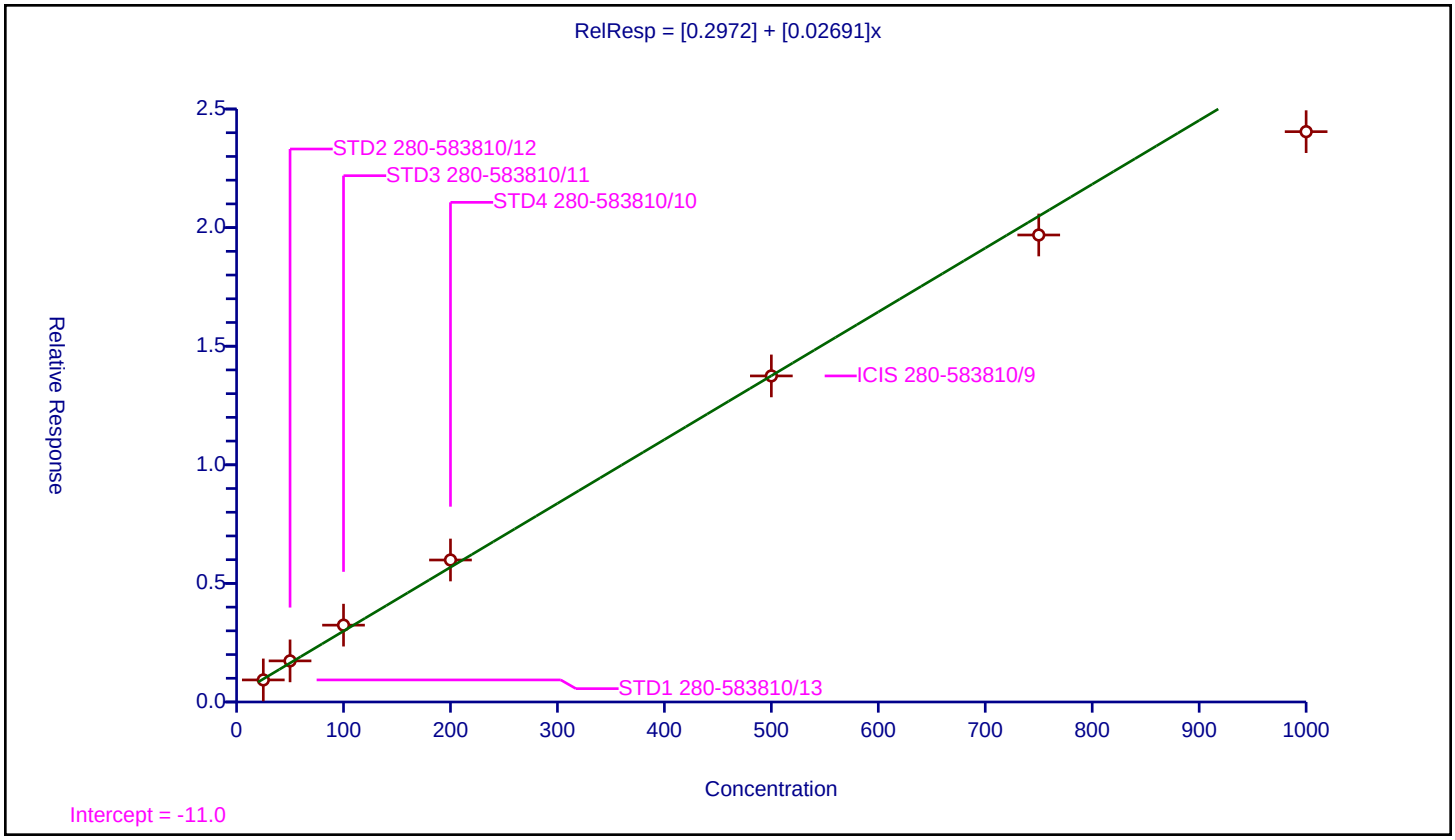
Curve Coefficients

Intercept:	0.2972
Slope:	0.02691

Error Coefficients

Standard Error:	19300000
Relative Standard Error:	8.4
Correlation Coefficient:	0.979
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-583810/13	25.0	0.929952	100.0	121209810.0	0.037198	Y
2	STD2 280-583810/12	50.0	1.732964	100.0	123252056.0	0.034659	Y
3	STD3 280-583810/11	100.0	3.239565	100.0	129177816.0	0.032396	Y
4	STD4 280-583810/10	200.0	5.98633	100.0	118230948.0	0.029932	Y
5	ICIS 280-583810/9	500.0	13.746849	100.0	115993086.0	0.027494	Y
6	STD6 280-583810/8	750.0	19.688968	100.0	135992639.0	0.026252	Y
7	STD7 280-583810/7	1000.0	24.045055	100.0	118889957.0	0.024045	Y



Calibration / PCB-1260 Peak 1

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

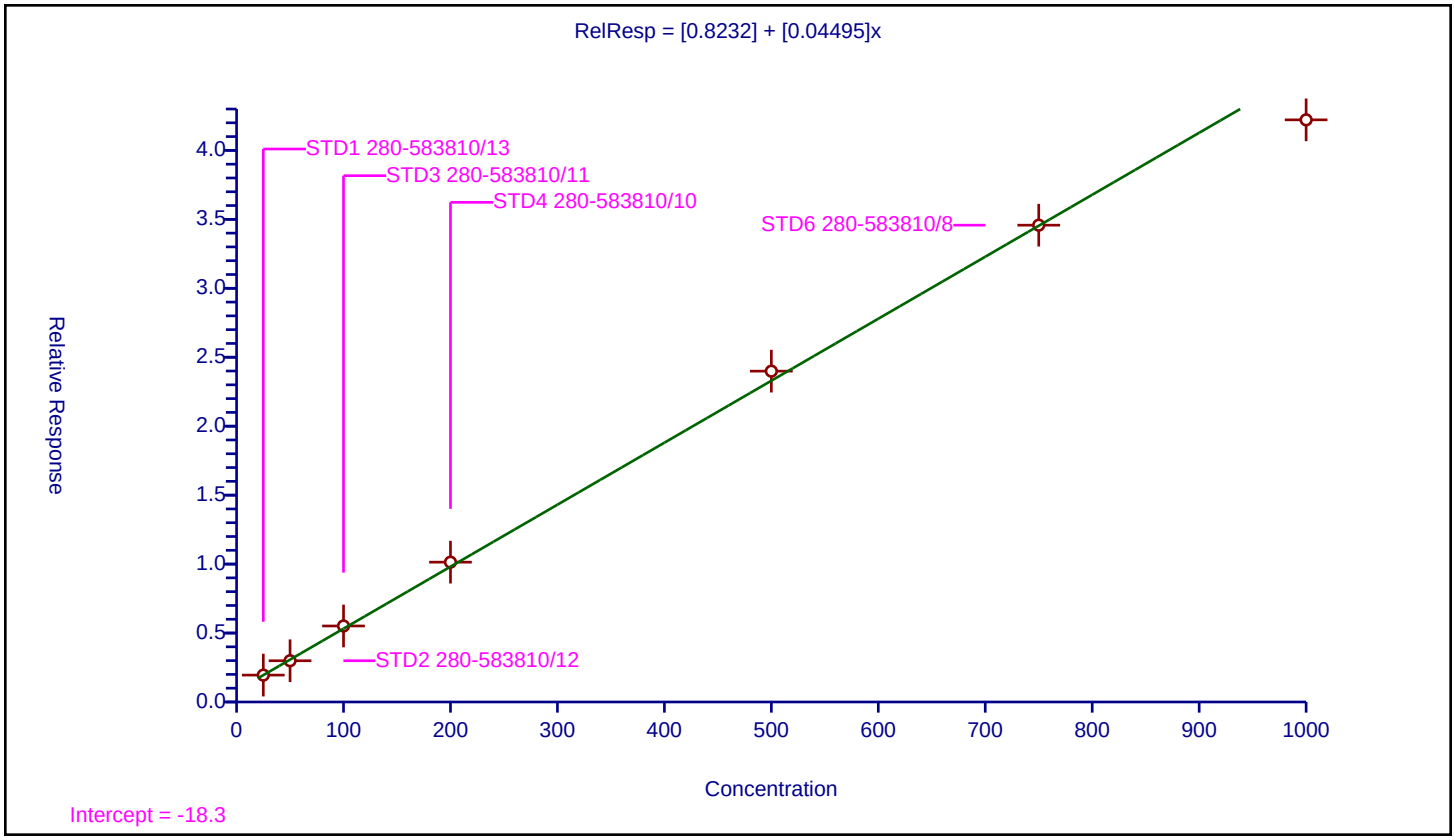
Curve Coefficients

Intercept:	0.8232
Slope:	0.04495

Error Coefficients

Standard Error:	33800000
Relative Standard Error:	4.8
Correlation Coefficient:	0.979
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-583810/13	25.0	1.949864	100.0	121209810.0	0.077995	Y
2	STD2 280-583810/12	50.0	2.99129	100.0	123252056.0	0.059826	Y
3	STD3 280-583810/11	100.0	5.512362	100.0	129177816.0	0.055124	Y
4	STD4 280-583810/10	200.0	10.139007	100.0	118230948.0	0.050695	Y
5	ICIS 280-583810/9	500.0	23.990999	100.0	115993086.0	0.047982	Y
6	STD6 280-583810/8	750.0	34.576768	100.0	135992639.0	0.046102	Y
7	STD7 280-583810/7	1000.0	42.215008	100.0	118889957.0	0.042215	Y



Calibration / PCB-1260 Peak 2

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

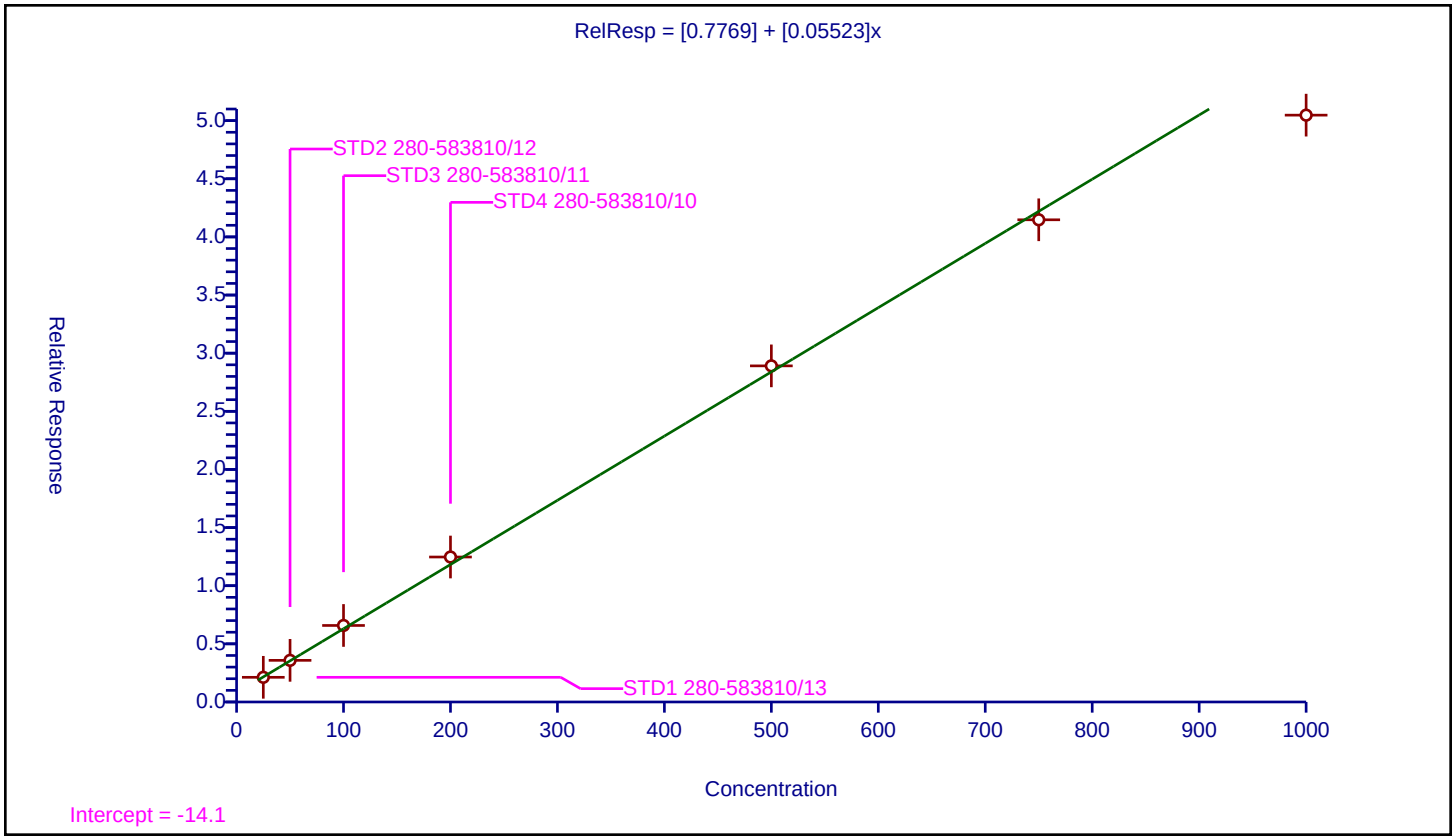
Curve Coefficients

Intercept:	0.7769
Slope:	0.05523

Error Coefficients

Standard Error:	40600000
Relative Standard Error:	5.9
Correlation Coefficient:	0.978
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-583810/13	25.0	2.122527	100.0	121209810.0	0.084901	Y
2	STD2 280-583810/12	50.0	3.580214	100.0	123252056.0	0.071604	Y
3	STD3 280-583810/11	100.0	6.580172	100.0	129177816.0	0.065802	Y
4	STD4 280-583810/10	200.0	12.469003	100.0	118230948.0	0.062345	Y
5	ICIS 280-583810/9	500.0	28.909502	100.0	115993086.0	0.057819	Y
6	STD6 280-583810/8	750.0	41.473709	100.0	135992639.0	0.055298	Y
7	STD7 280-583810/7	1000.0	50.472684	100.0	118889957.0	0.050473	Y



Calibration / PCB-1260 Peak 3

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

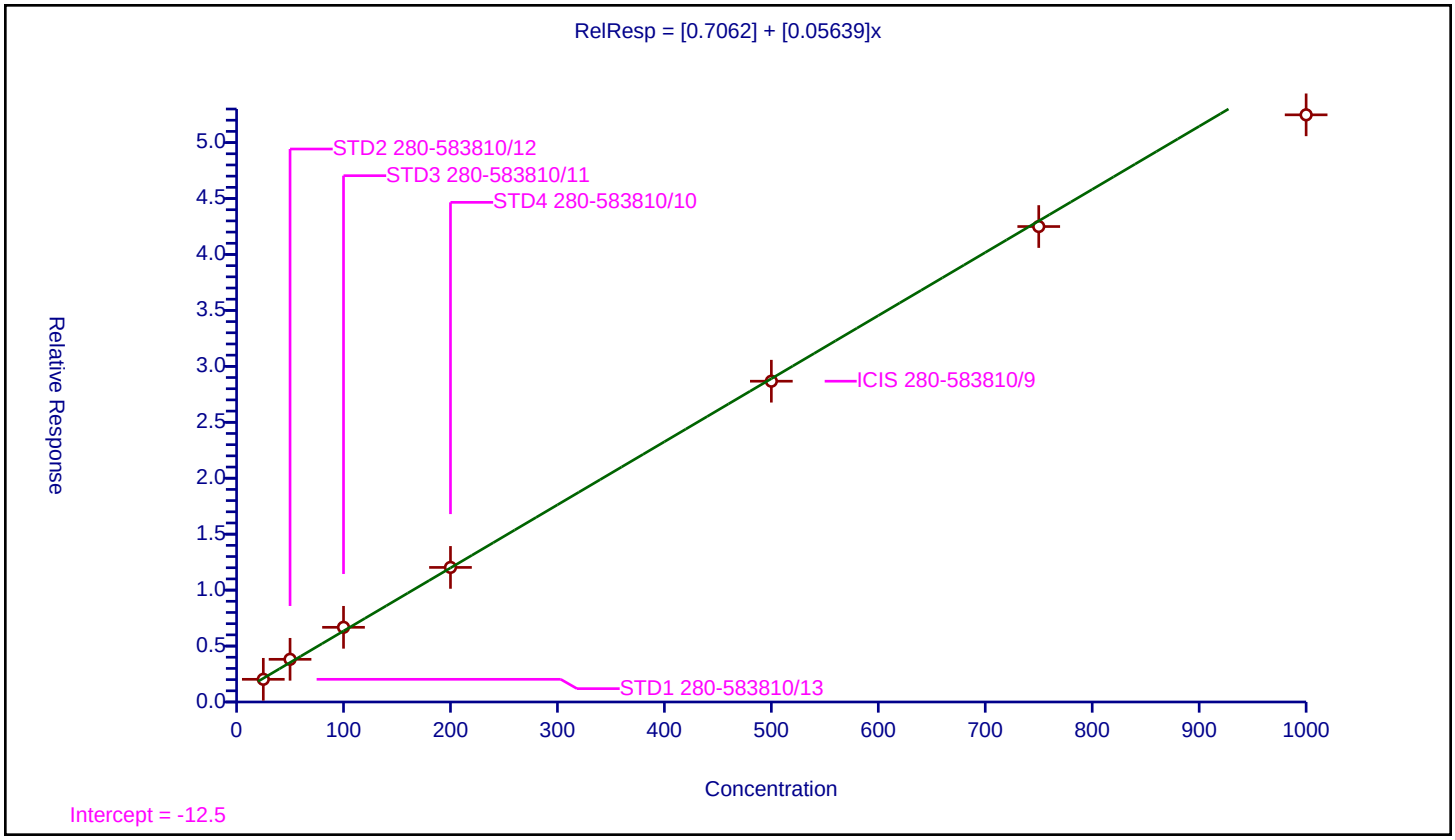
Curve Coefficients

Intercept:	0.7062
Slope:	0.05639

Error Coefficients

Standard Error:	41600000
Relative Standard Error:	7.1
Correlation Coefficient:	0.981
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-583810/13	25.0	2.026242	100.0	121209810.0	0.08105	Y
2	STD2 280-583810/12	50.0	3.814267	100.0	123252056.0	0.076285	Y
3	STD3 280-583810/11	100.0	6.675399	100.0	129177816.0	0.066754	Y
4	STD4 280-583810/10	200.0	12.029127	100.0	118230948.0	0.060146	Y
5	ICIS 280-583810/9	500.0	28.672478	100.0	115993086.0	0.057345	Y
6	STD6 280-583810/8	750.0	42.49523	100.0	135992639.0	0.05666	Y
7	STD7 280-583810/7	1000.0	52.481562	100.0	118889957.0	0.052482	Y



Calibration / PCB-1260 Peak 4

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

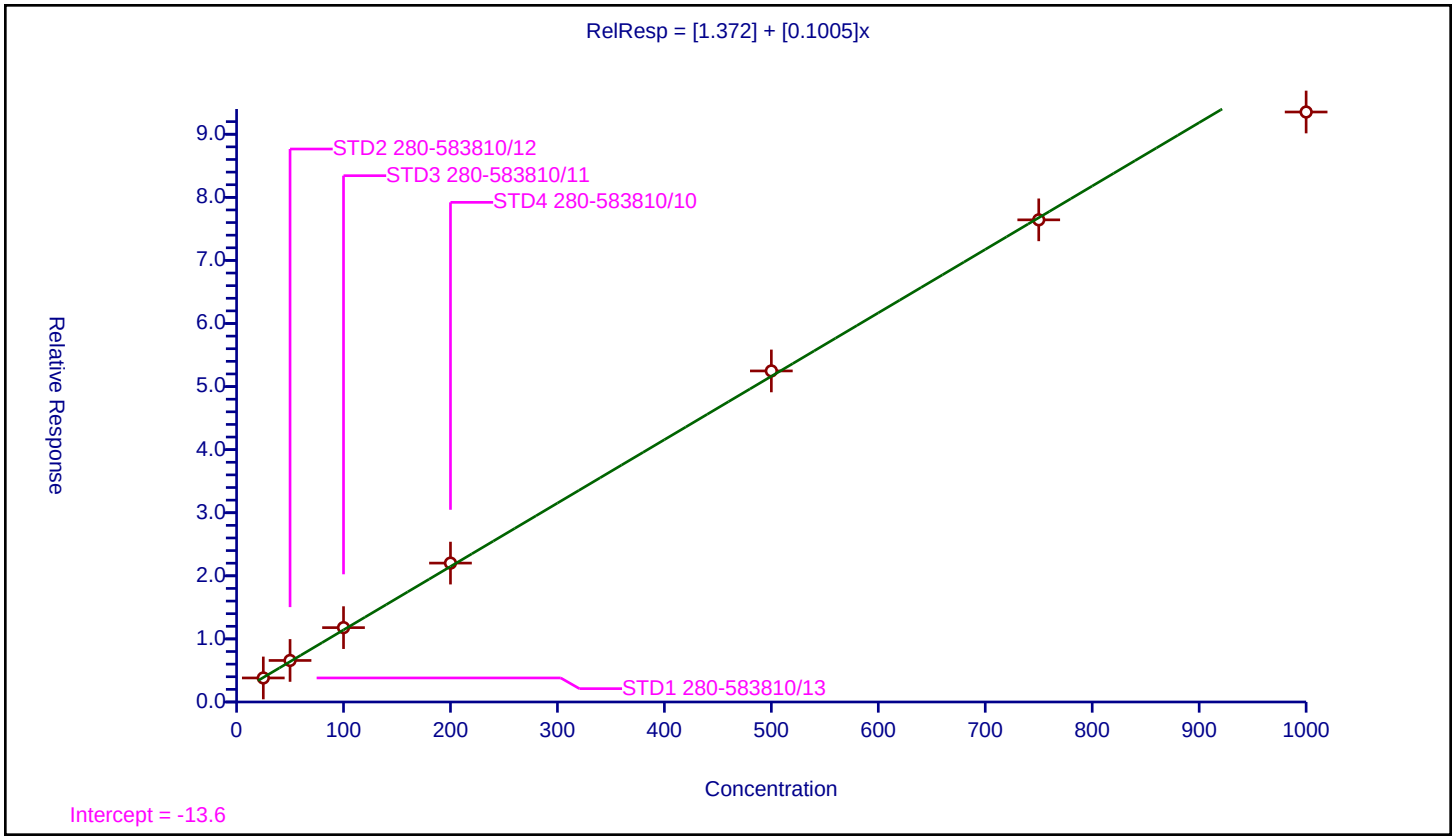
Curve Coefficients

Intercept:	1.372
Slope:	0.1005

Error Coefficients

Standard Error:	74700000
Relative Standard Error:	4.8
Correlation Coefficient:	0.979
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-583810/13	25.0	3.810332	100.0	121209810.0	0.152413	Y
2	STD2 280-583810/12	50.0	6.585425	100.0	123252056.0	0.131709	Y
3	STD3 280-583810/11	100.0	11.789191	100.0	129177816.0	0.117892	Y
4	STD4 280-583810/10	200.0	22.017569	100.0	118230948.0	0.110088	Y
5	ICIS 280-583810/9	500.0	52.478255	100.0	115993086.0	0.104957	Y
6	STD6 280-583810/8	750.0	76.433407	100.0	135992639.0	0.101911	Y
7	STD7 280-583810/7	1000.0	93.526245	100.0	118889957.0	0.093526	Y



Calibration / PCB-1260 Peak 5

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

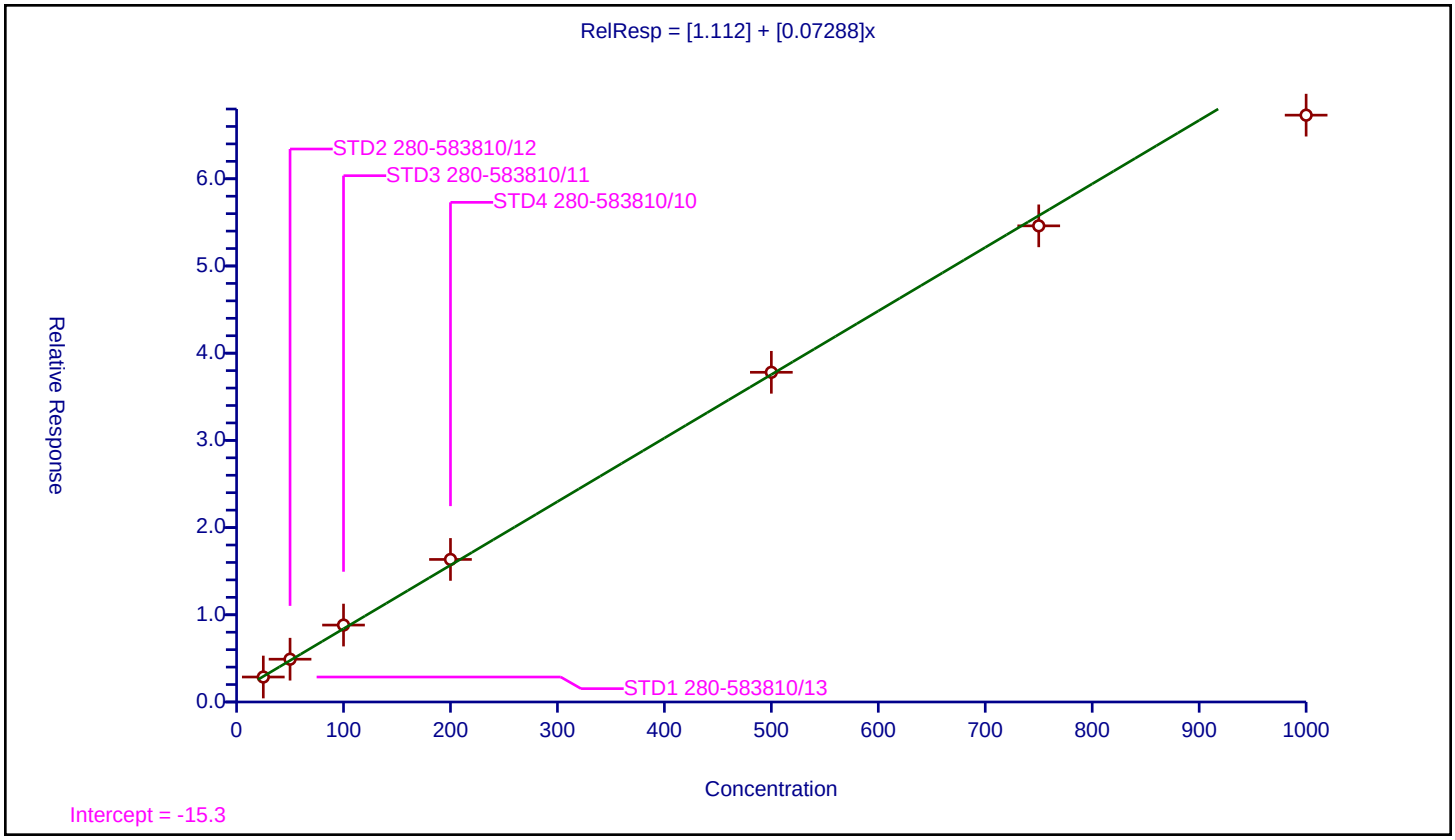
Curve Coefficients

Intercept:	1.112
Slope:	0.07288

Error Coefficients

Standard Error:	53600000
Relative Standard Error:	5.9
Correlation Coefficient:	0.981
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-583810/13	25.0	2.864314	100.0	121209810.0	0.114573	Y
2	STD2 280-583810/12	50.0	4.905295	100.0	123252056.0	0.098106	Y
3	STD3 280-583810/11	100.0	8.821913	100.0	129177816.0	0.088219	Y
4	STD4 280-583810/10	200.0	16.346116	100.0	118230948.0	0.081731	Y
5	ICIS 280-583810/9	500.0	37.808362	100.0	115993086.0	0.075617	Y
6	STD6 280-583810/8	750.0	54.602357	100.0	135992639.0	0.072803	Y
7	STD7 280-583810/7	1000.0	67.295731	100.0	118889957.0	0.067296	Y



Calibration / DCB Decachlorobiphenyl

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

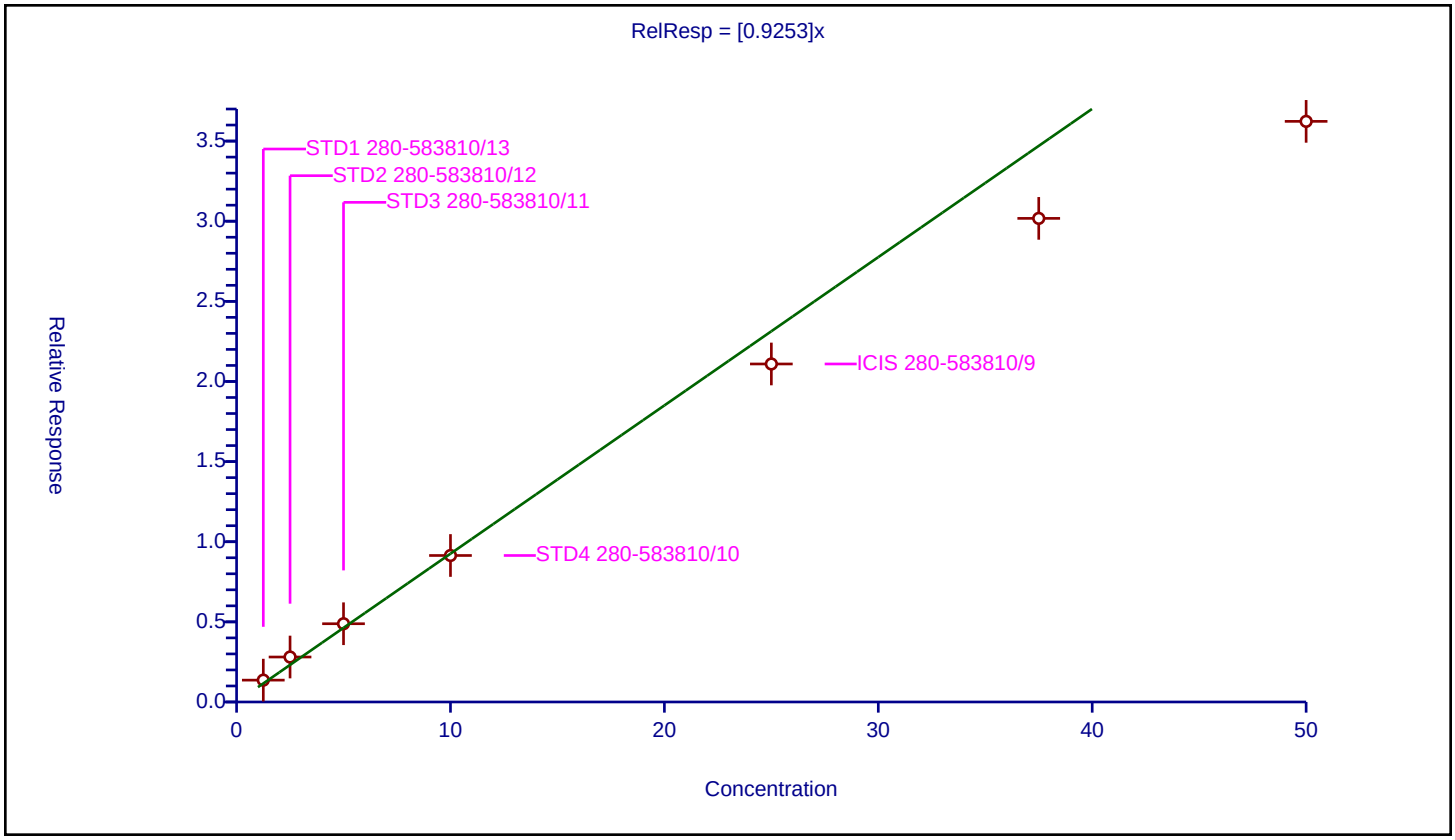
Curve Coefficients

Intercept:	0
Slope:	0.9253

Error Coefficients

Standard Error:	26800000
Relative Standard Error:	15.9
Correlation Coefficient:	0.975
Coefficient of Determination (Adjusted):	0.954

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-583810/13	1.25	1.363989	100.0	121209810.0	1.091192	Y
2	STD2 280-583810/12	2.5	2.80593	100.0	123252056.0	1.122372	Y
3	STD3 280-583810/11	5.0	4.882001	100.0	129177816.0	0.9764	Y
4	STD4 280-583810/10	10.0	9.140511	100.0	118230948.0	0.914051	Y
5	ICIS 280-583810/9	25.0	21.091956	100.0	115993086.0	0.843678	Y
6	STD6 280-583810/8	37.5	30.17545	100.0	135992639.0	0.804679	Y
7	STD7 280-583810/7	50.0	36.229201	100.0	118889957.0	0.724584	Y



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-168095-2 Analy Batch No.: 591125

SDG No.:

Instrument ID: SGC_P3 GC Column: CLP1 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/25/2022 10:36 Calibration End Date: 10/25/2022 10:36 Calibration ID: 72274

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 280-591125/4	10250004.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1221 Peak 1	0.0131					Ave		0.0131						20.0			
PCB-1221 Peak 2	0.0082					Ave		0.0082						20.0			
PCB-1221 Peak 3	0.0302					Ave		0.0302						20.0			
PCB-1254 Peak 1	0.0375					Ave		0.0375						20.0			
PCB-1254 Peak 2	0.0681					Ave		0.0681						20.0			
PCB-1254 Peak 3	0.0787					Ave		0.0787						20.0			
PCB-1254 Peak 4	0.0532					Ave		0.0532						20.0			
PCB-1254 Peak 5	0.0749					Ave		0.0749						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-168095-2 Analy Batch No.: 591125

SDG No.:

Instrument ID: SGC_P3 GC Column: CLP1 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/25/2022 10:36 Calibration End Date: 10/25/2022 10:36 Calibration ID: 72274

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 280-591125/4	10250004.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1					LVL 1				
PCB-1221 Peak 1	BNB	Ave	8612729					500				
PCB-1221 Peak 2	BNB	Ave	5376760					500				
PCB-1221 Peak 3	BNB	Ave	19885068					500				
PCB-1254 Peak 1	BNB	Ave	24678706					500				
PCB-1254 Peak 2	BNB	Ave	44861212					500				
PCB-1254 Peak 3	BNB	Ave	51805812					500				
PCB-1254 Peak 4	BNB	Ave	35042203					500				
PCB-1254 Peak 5	BNB	Ave	49329861					500				

Curve Type Legend
Ave = Average ISTD

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250004.D
Lims ID: STD5 A2154
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 25-Oct-2022 10:36:09 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: STD5 A2154
Misc. Info.: 280-0115461-004
Operator ID: SMP Instrument ID: SGC_P3
Sublist: chrom-PCB_P3*sub3

Method: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\PCB_P3.m
Limit Group: GCSV - 8082A - IS
Last Update: 25-Oct-2022 16:41:35 Calib Date: 25-Oct-2022 11:31:41
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
Process Host: CTX1669

First Level Reviewer: USP3 Date: 25-Oct-2022 16:37:06

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.194	3.194	0.000	131725369	100.0	100.0	
2	2.947	2.947	0.000	123594923	100.0	100.0	
						RPD = 0.00	
3 PCB-1221							
1	4.151	4.151	0.000	8612729	500.0	500.0	
1	4.294	4.294	0.000	5376760	500.0	500.0	
1	4.334	4.334	0.000	19885068	500.0	500.0	
		Average of Peak Amounts =				500.0	
2	4.100	4.100	0.000	8478743	500.0	500.0	
2	4.227	4.227	0.000	5474593	500.0	500.0	
2	4.280	4.280	0.000	19249624	500.0	500.0	
		Average of Peak Amounts =				500.0	
						RPD = 0.00	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
9 PCB-1254							
1	6.188	6.188	0.000	24678706	500.0	500.0	
1	6.431	6.431	0.000	44861212	500.0	500.0	
1	6.901	6.901	0.000	51805812	500.0	500.0	
1	7.461	7.461	0.000	35042203	500.0	500.0	
1	7.808	7.808	0.000	49329861	500.0	500.0	
		Average of Peak Amounts =				500.0	
2	6.167	6.167	0.000	27700337	500.0	500.0	
2	6.384	6.384	0.000	30090827	500.0	500.0	
2	6.920	6.920	0.000	44176872	500.0	500.0	
2	7.197	7.197	0.000	31455993	500.0	500.0	
2	7.864	7.864	0.000	46503505	500.0	500.0	
		Average of Peak Amounts =				500.0	
						RPD = 0.00	

QC Flag Legend

Processing Flags

Reagents:

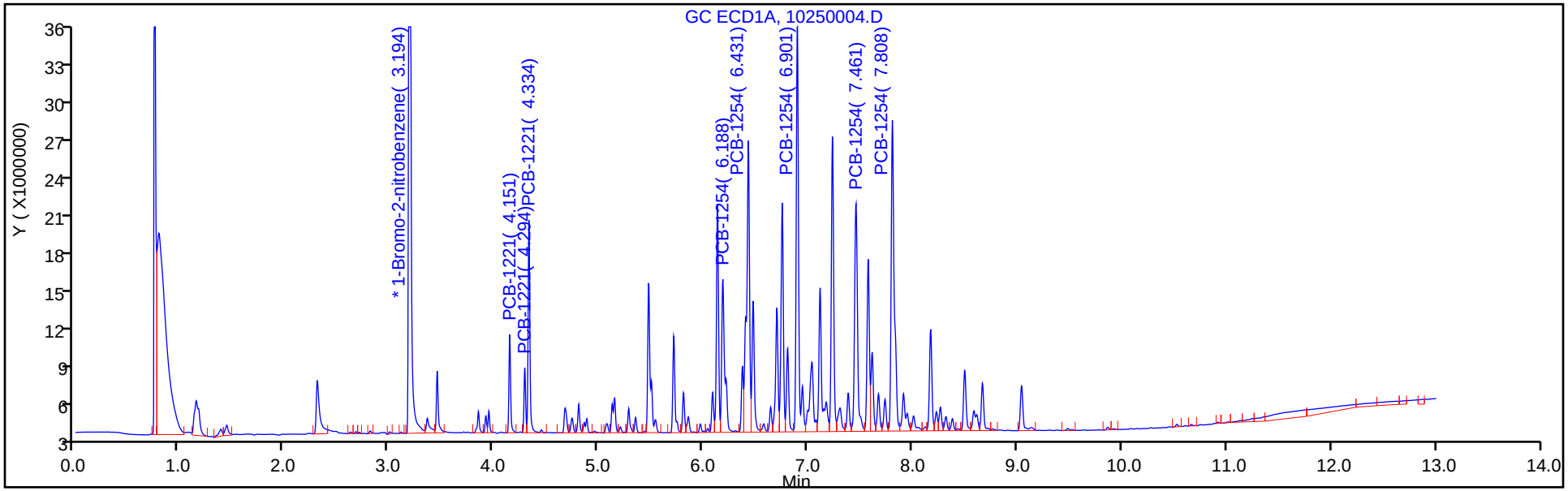
AR_2154_L7_00032	Amount Added: 100.00	Units: uL	
BNB IS_00023	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 25-Oct-2022 16:41:35 Chrom Revision: 2.3 28-Sep-2022 12:57:42

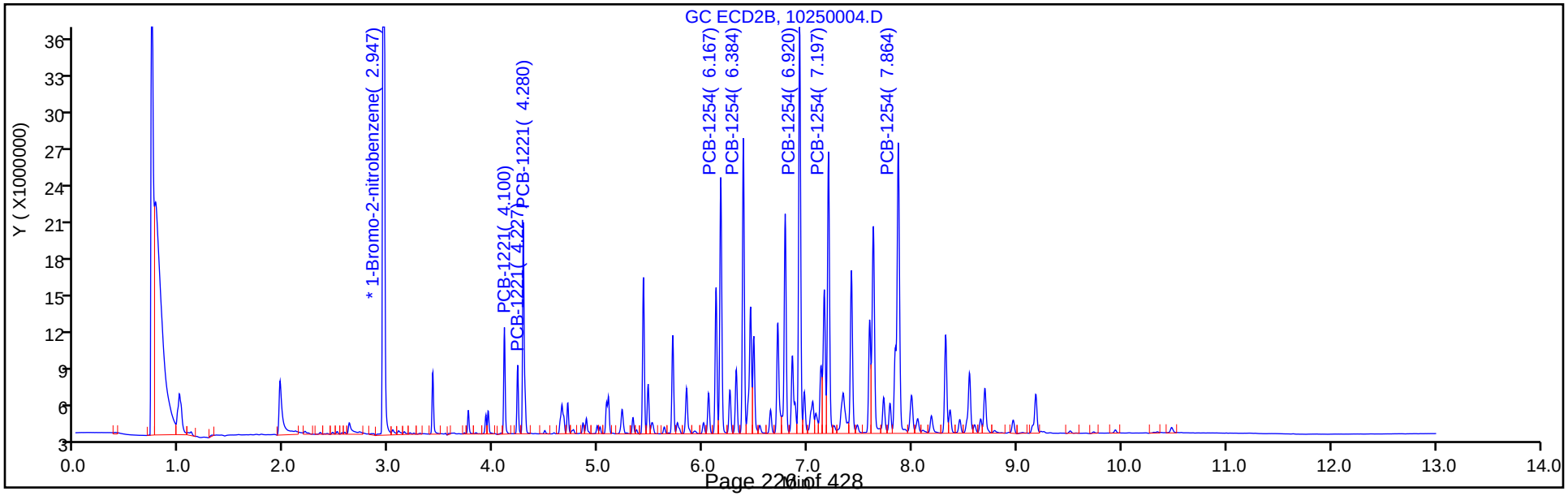
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250004.D				
Injection Date:	25-Oct-2022 10:36:09	Instrument ID:	SGC_P3	Operator ID:	SMP
Lims ID:	STD5 A2154			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Calibration / PCB-1221 Peak 1

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

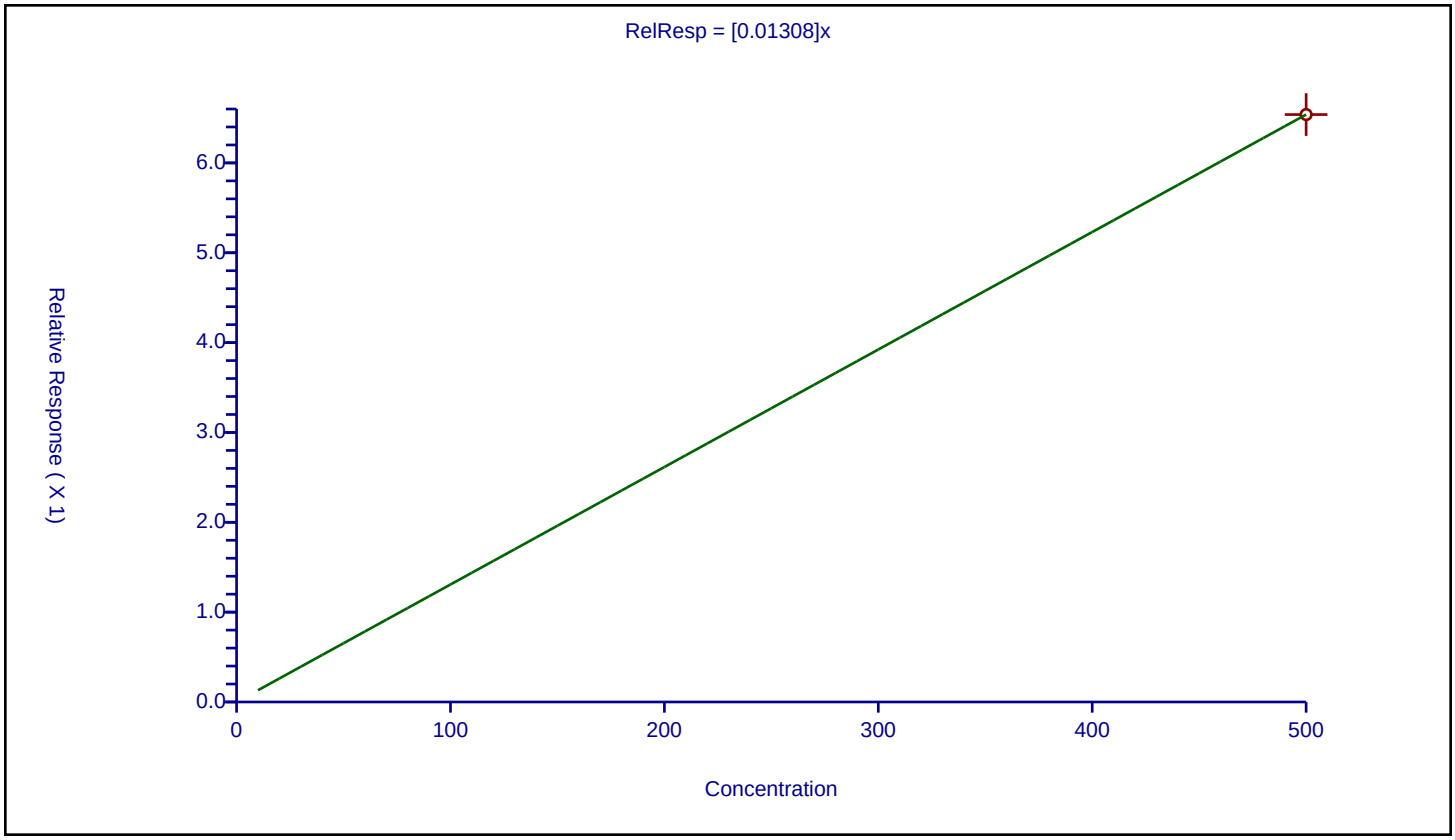
Curve Coefficients

Intercept:	0
Slope:	0.01308

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/4	500.0	6.538398	100.0	131725369.0	0.013077	Y



Calibration / PCB-1221 Peak 2

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

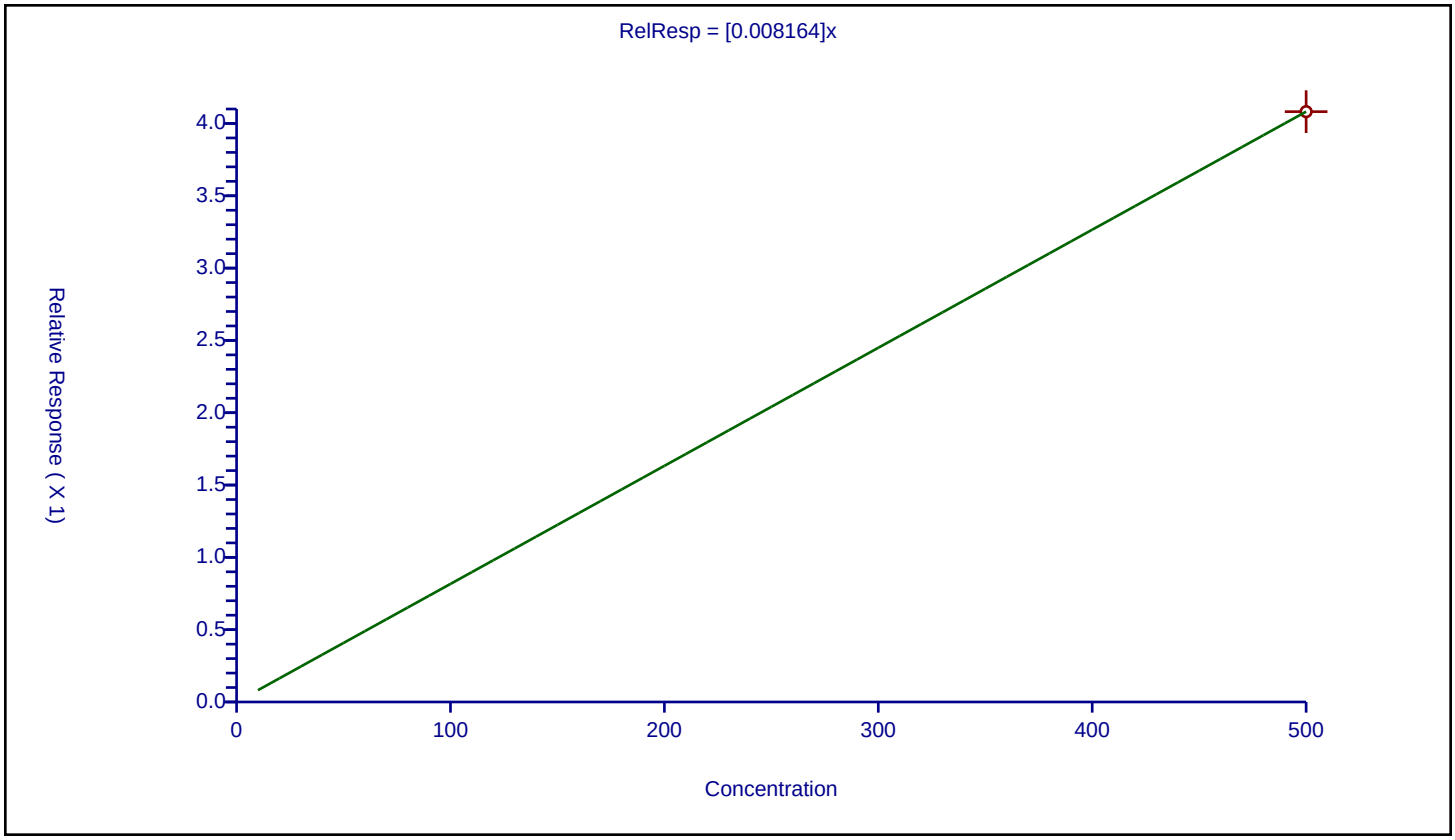
Curve Coefficients

Intercept:	0
Slope:	0.008164

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/4	500.0	4.081795	100.0	131725369.0	0.008164	Y



Calibration / PCB-1221 Peak 3

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

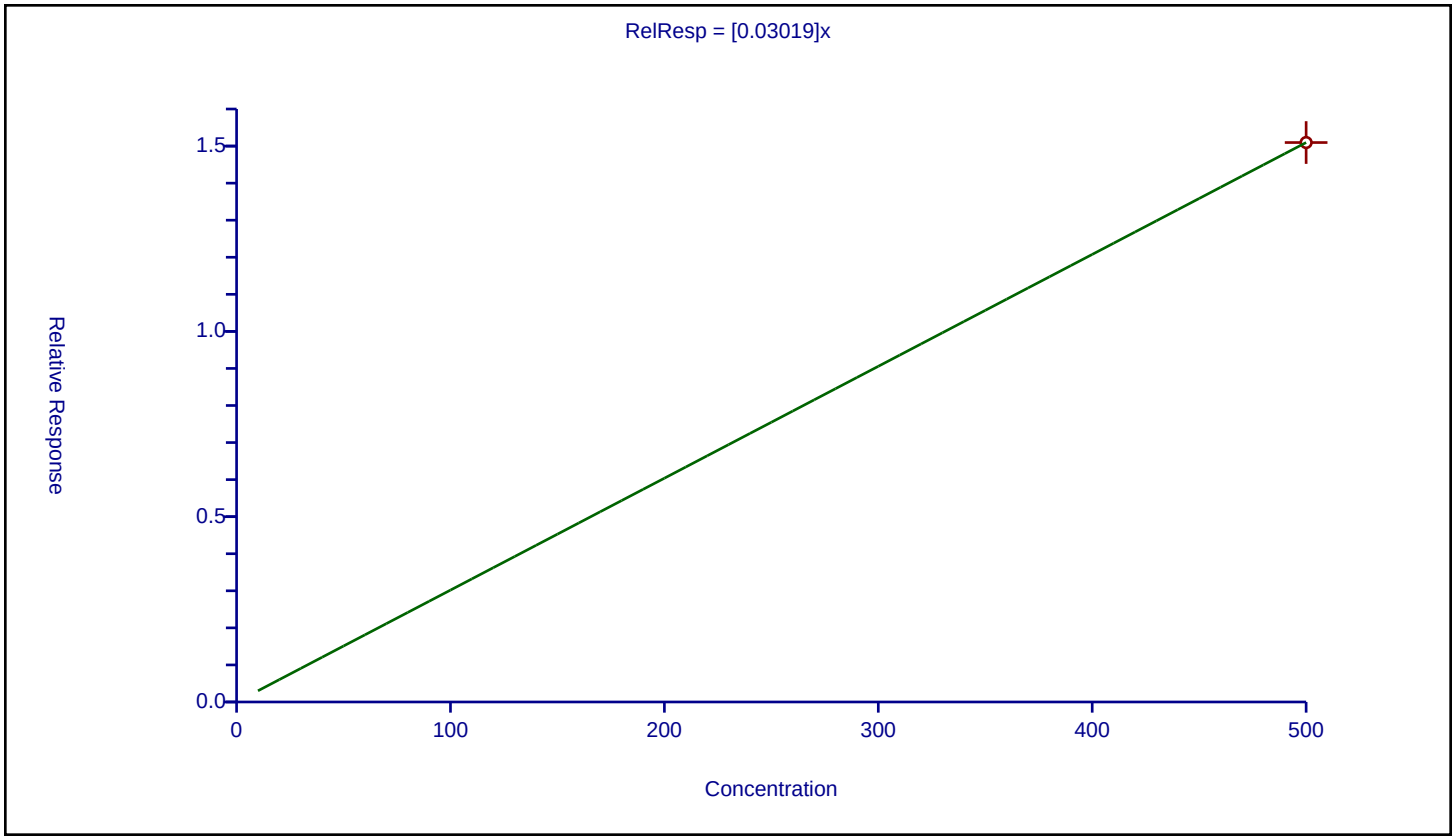
Curve Coefficients

Intercept:	0
Slope:	0.03019

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/4	500.0	15.095853	100.0	131725369.0	0.030192	Y



Calibration / PCB-1254 Peak 1

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

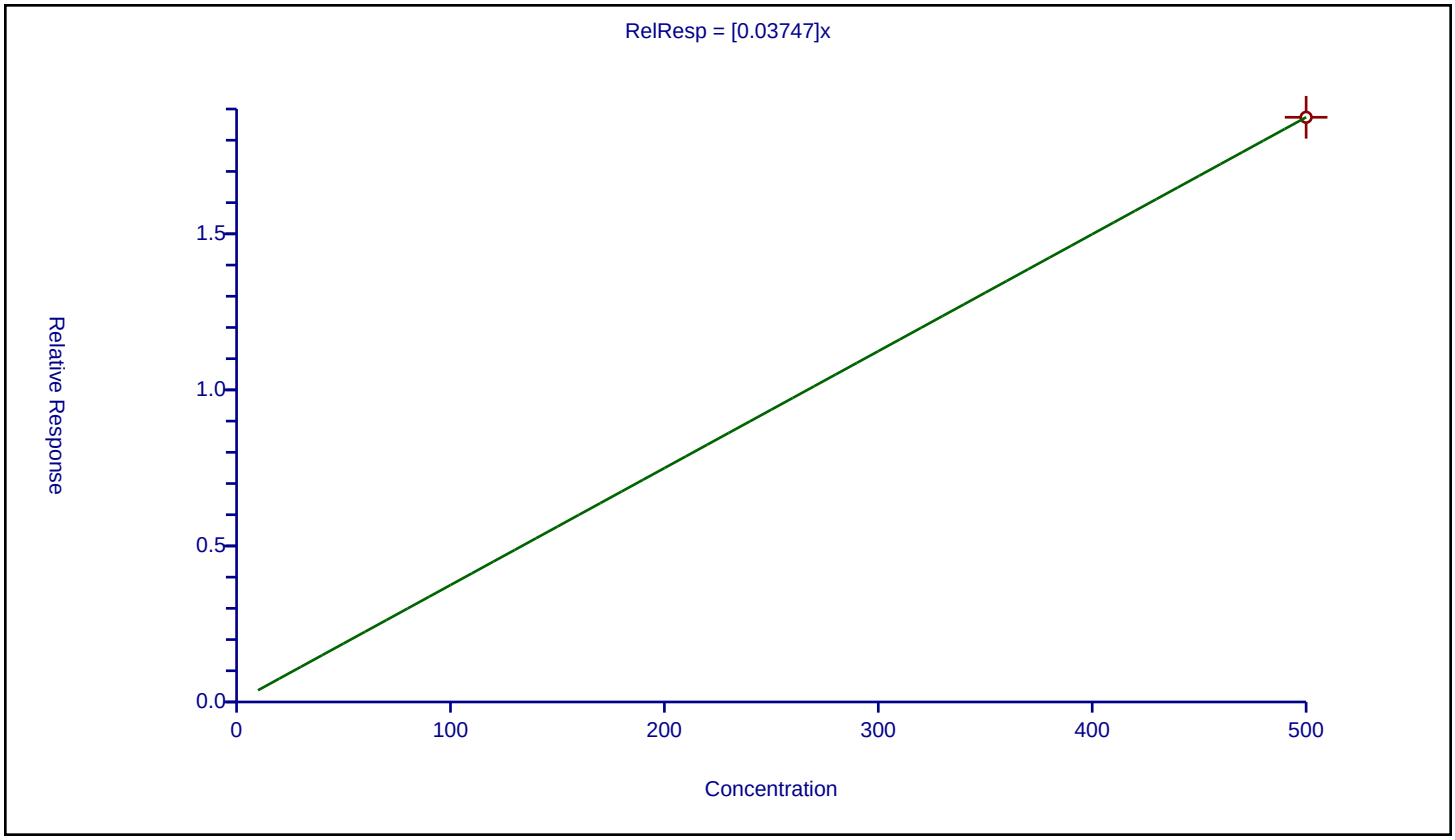
Curve Coefficients

Intercept:	0
Slope:	0.03747

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/4	500.0	18.734968	100.0	131725369.0	0.03747	Y



Calibration / PCB-1254 Peak 2

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

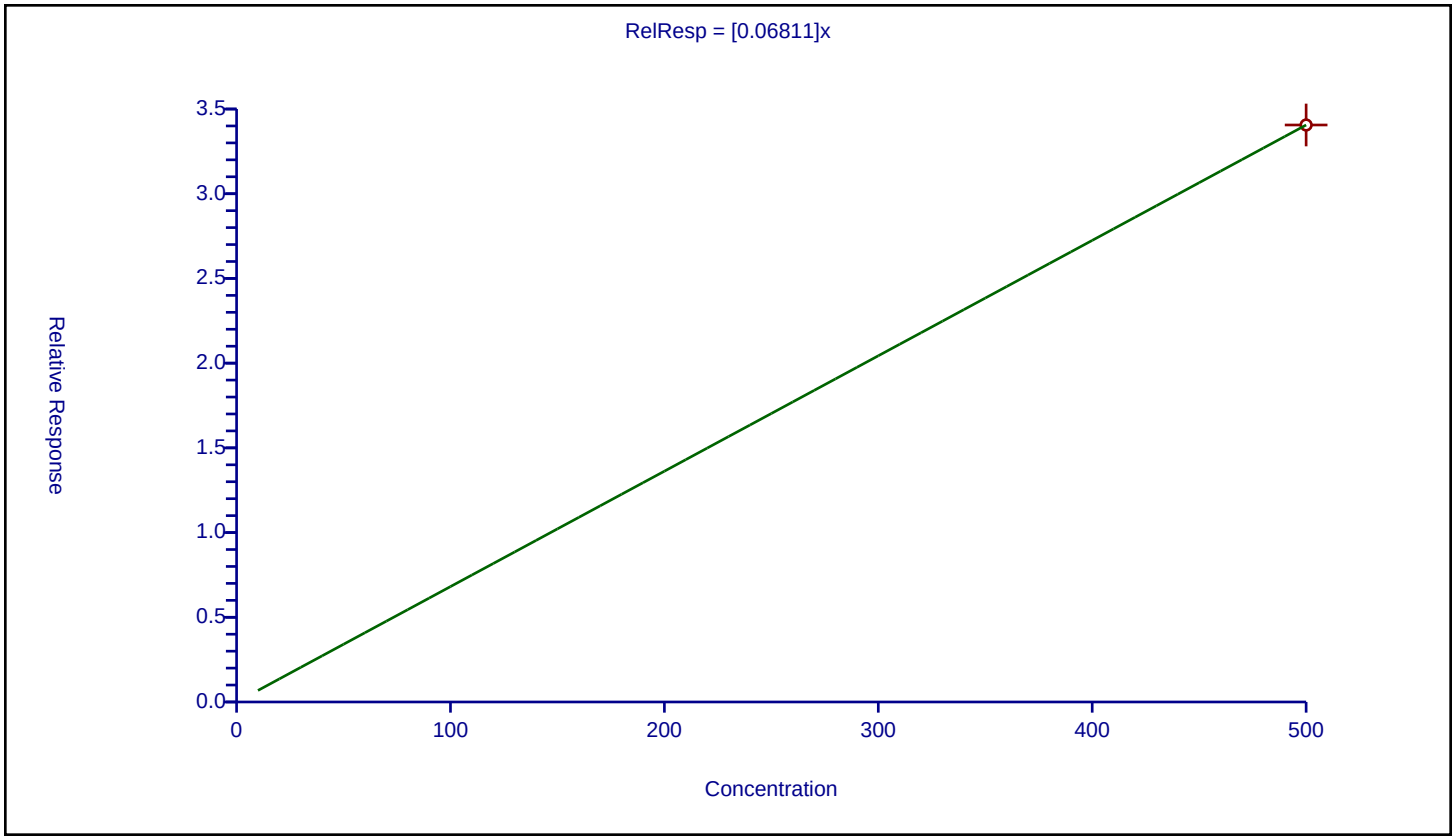
Curve Coefficients

Intercept:	0
Slope:	0.06811

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/4	500.0	34.056623	100.0	131725369.0	0.068113	Y



Calibration / PCB-1254 Peak 3

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

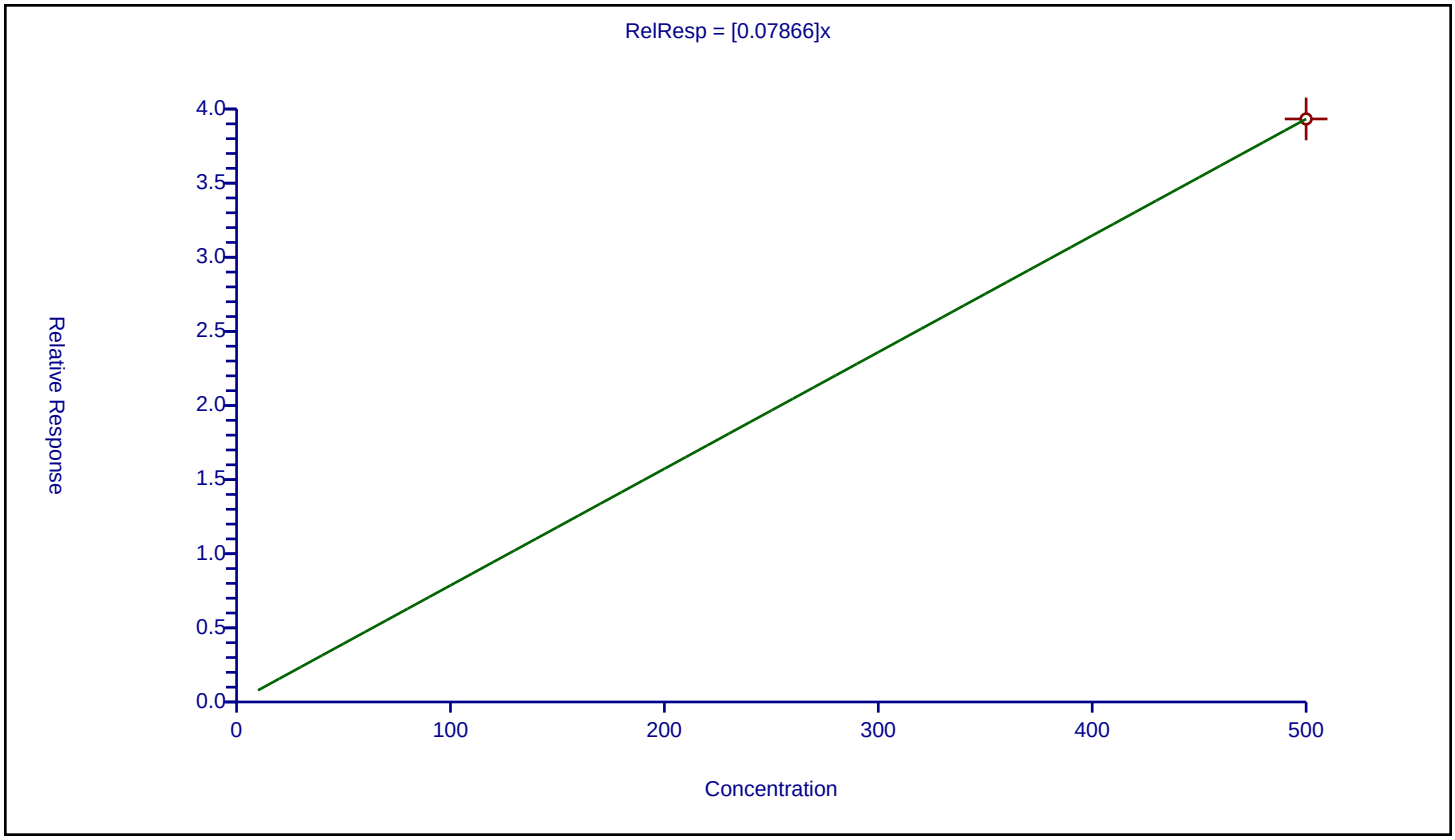
Curve Coefficients

Intercept:	0
Slope:	0.07866

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/4	500.0	39.328652	100.0	131725369.0	0.078657	Y



Calibration / PCB-1254 Peak 4

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

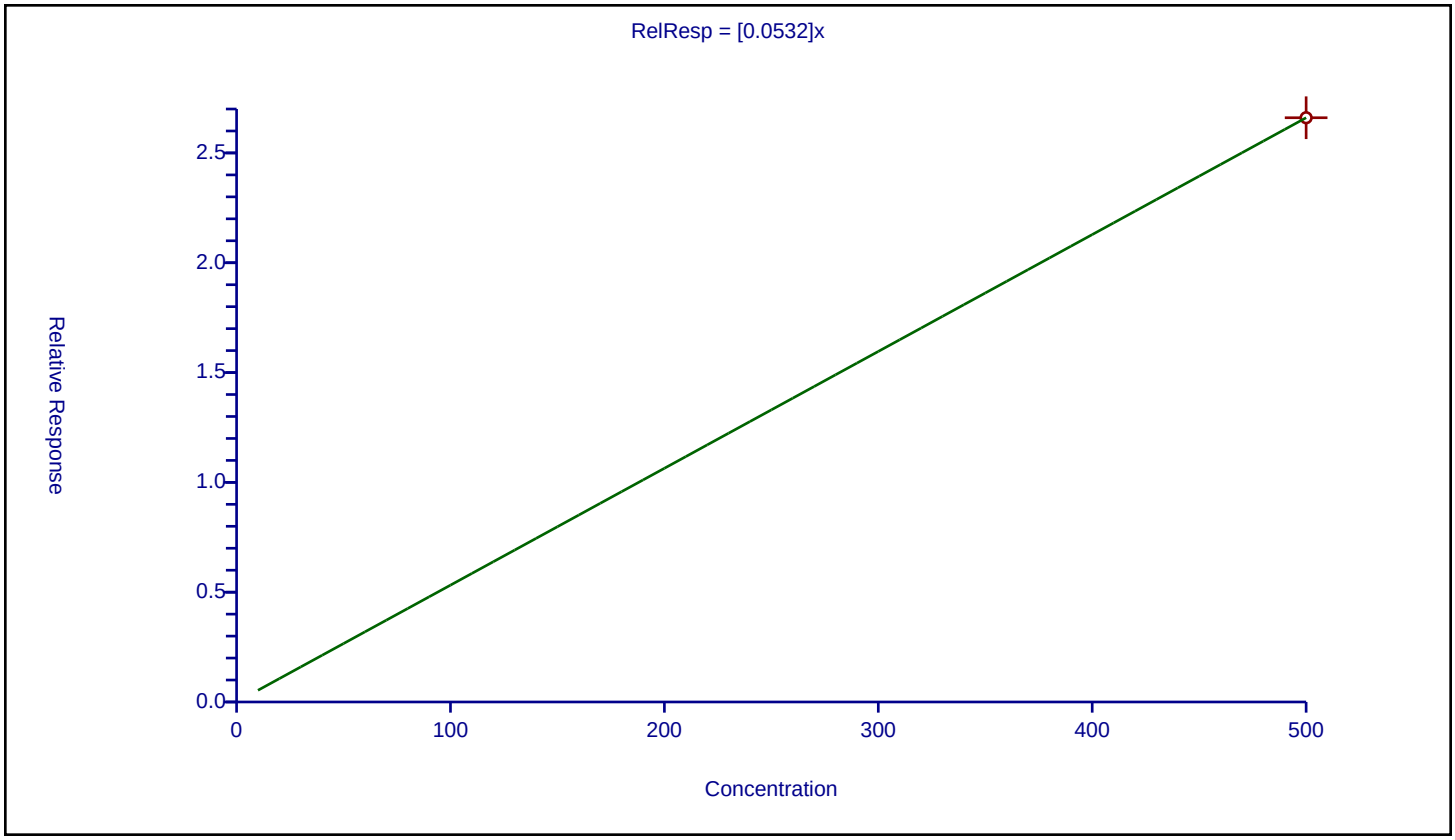
Curve Coefficients

Intercept:	0
Slope:	0.0532

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/4	500.0	26.602471	100.0	131725369.0	0.053205	Y



Calibration / PCB-1254 Peak 5

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

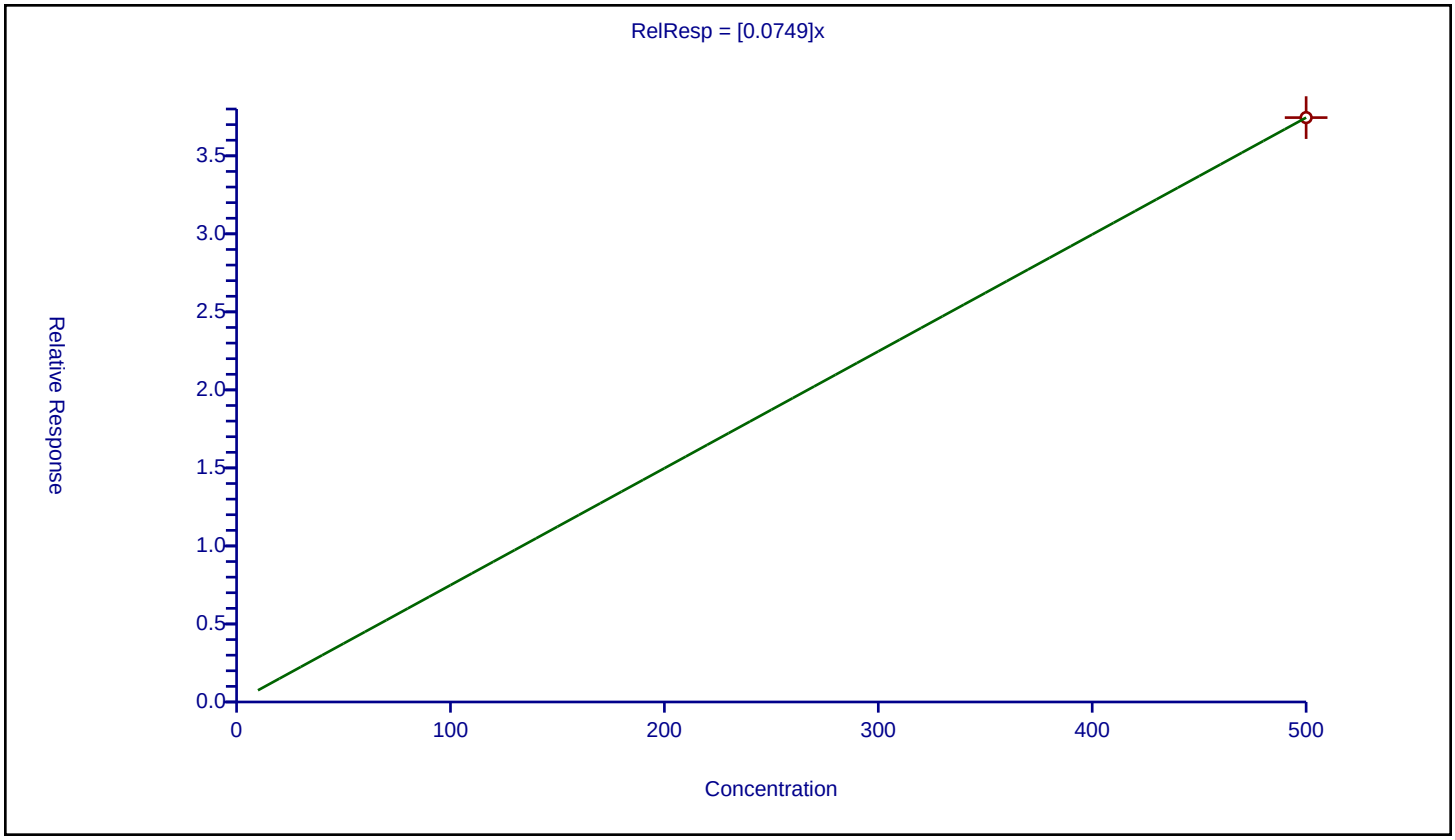
Curve Coefficients

Intercept:	0
Slope:	0.0749

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/4	500.0	37.449021	100.0	131725369.0	0.074898	Y



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-168095-2 Analy Batch No.: 591125

SDG No.:

Instrument ID: SGC_P3 GC Column: CLP2 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/25/2022 10:36 Calibration End Date: 10/25/2022 10:36 Calibration ID: 72275

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 280-591125/4	10250004.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1221 Peak 1	0.0137					Ave		0.0137						20.0			
PCB-1221 Peak 2	0.0089					Ave		0.0089						20.0			
PCB-1221 Peak 3	0.0311					Ave		0.0311						20.0			
PCB-1254 Peak 1	0.0448					Ave		0.0448						20.0			
PCB-1254 Peak 2	0.0487					Ave		0.0487						20.0			
PCB-1254 Peak 3	0.0715					Ave		0.0715						20.0			
PCB-1254 Peak 4	0.0509					Ave		0.0509						20.0			
PCB-1254 Peak 5	0.0753					Ave		0.0753						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-168095-2 Analy Batch No.: 591125

SDG No.:

Instrument ID: SGC_P3 GC Column: CLP2 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/25/2022 10:36 Calibration End Date: 10/25/2022 10:36 Calibration ID: 72275

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 280-591125/4	10250004.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1					LVL 1				
PCB-1221 Peak 1	BNB	Ave	8478743					500				
PCB-1221 Peak 2	BNB	Ave	5474593					500				
PCB-1221 Peak 3	BNB	Ave	19249624					500				
PCB-1254 Peak 1	BNB	Ave	27700337					500				
PCB-1254 Peak 2	BNB	Ave	30090827					500				
PCB-1254 Peak 3	BNB	Ave	44176872					500				
PCB-1254 Peak 4	BNB	Ave	31455993					500				
PCB-1254 Peak 5	BNB	Ave	46503505					500				

Curve Type Legend
Ave = Average ISTD

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250004.D
Lims ID: STD5 A2154
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 25-Oct-2022 10:36:09 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: STD5 A2154
Misc. Info.: 280-0115461-004
Operator ID: SMP Instrument ID: SGC_P3
Sublist: chrom-PCB_P3*sub3

Method: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\PCB_P3.m
Limit Group: GCSV - 8082A - IS
Last Update: 25-Oct-2022 16:41:35 Calib Date: 25-Oct-2022 11:31:41
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
Process Host: CTX1669

First Level Reviewer: USP3 Date: 25-Oct-2022 16:37:06

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.194	3.194	0.000	131725369	100.0	100.0	
2	2.947	2.947	0.000	123594923	100.0	100.0	
						RPD = 0.00	
3 PCB-1221							
1	4.151	4.151	0.000	8612729	500.0	500.0	
1	4.294	4.294	0.000	5376760	500.0	500.0	
1	4.334	4.334	0.000	19885068	500.0	500.0	
		Average of Peak Amounts =				500.0	
2	4.100	4.100	0.000	8478743	500.0	500.0	
2	4.227	4.227	0.000	5474593	500.0	500.0	
2	4.280	4.280	0.000	19249624	500.0	500.0	
		Average of Peak Amounts =				500.0	
						RPD = 0.00	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
9 PCB-1254							
1	6.188	6.188	0.000	24678706	500.0	500.0	
1	6.431	6.431	0.000	44861212	500.0	500.0	
1	6.901	6.901	0.000	51805812	500.0	500.0	
1	7.461	7.461	0.000	35042203	500.0	500.0	
1	7.808	7.808	0.000	49329861	500.0	500.0	
		Average of Peak Amounts =				500.0	
2	6.167	6.167	0.000	27700337	500.0	500.0	
2	6.384	6.384	0.000	30090827	500.0	500.0	
2	6.920	6.920	0.000	44176872	500.0	500.0	
2	7.197	7.197	0.000	31455993	500.0	500.0	
2	7.864	7.864	0.000	46503505	500.0	500.0	
		Average of Peak Amounts =				500.0	
						RPD = 0.00	

QC Flag Legend

Processing Flags

Reagents:

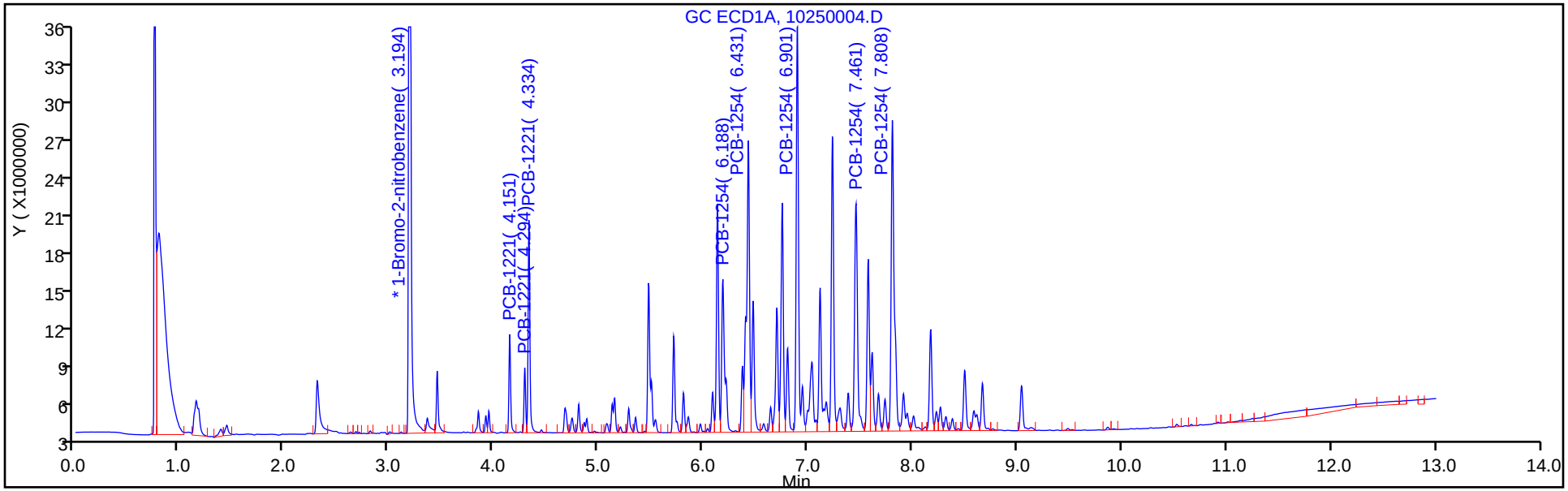
AR_2154_L7_00032	Amount Added: 100.00	Units: uL	
BNB IS_00023	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 25-Oct-2022 16:41:36 Chrom Revision: 2.3 28-Sep-2022 12:57:42

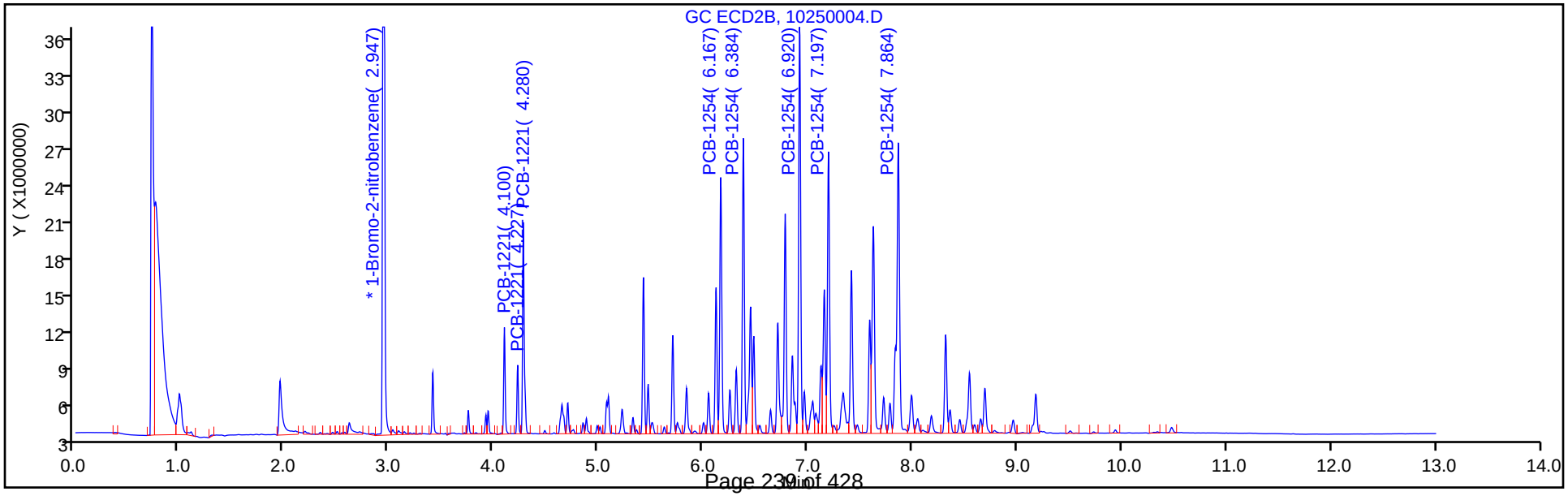
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250004.D				
Injection Date:	25-Oct-2022 10:36:09	Instrument ID:	SGC_P3	Operator ID:	SMP
Lims ID:	STD5 A2154			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Calibration / PCB-1221 Peak 1

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

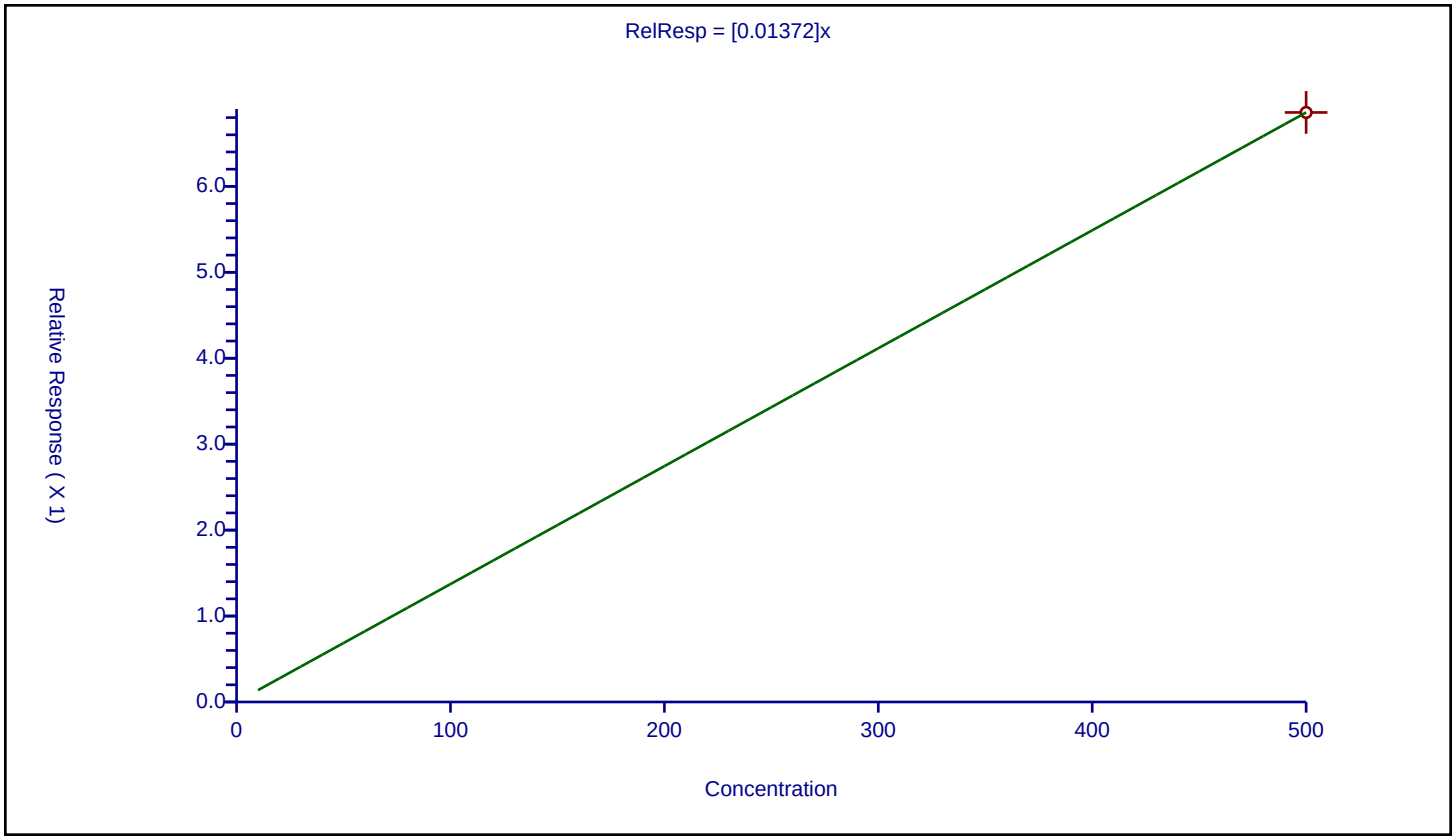
Curve Coefficients

Intercept:	0
Slope:	0.01372

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/4	500.0	6.860106	100.0	123594923.0	0.01372	Y



Calibration / PCB-1221 Peak 2

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

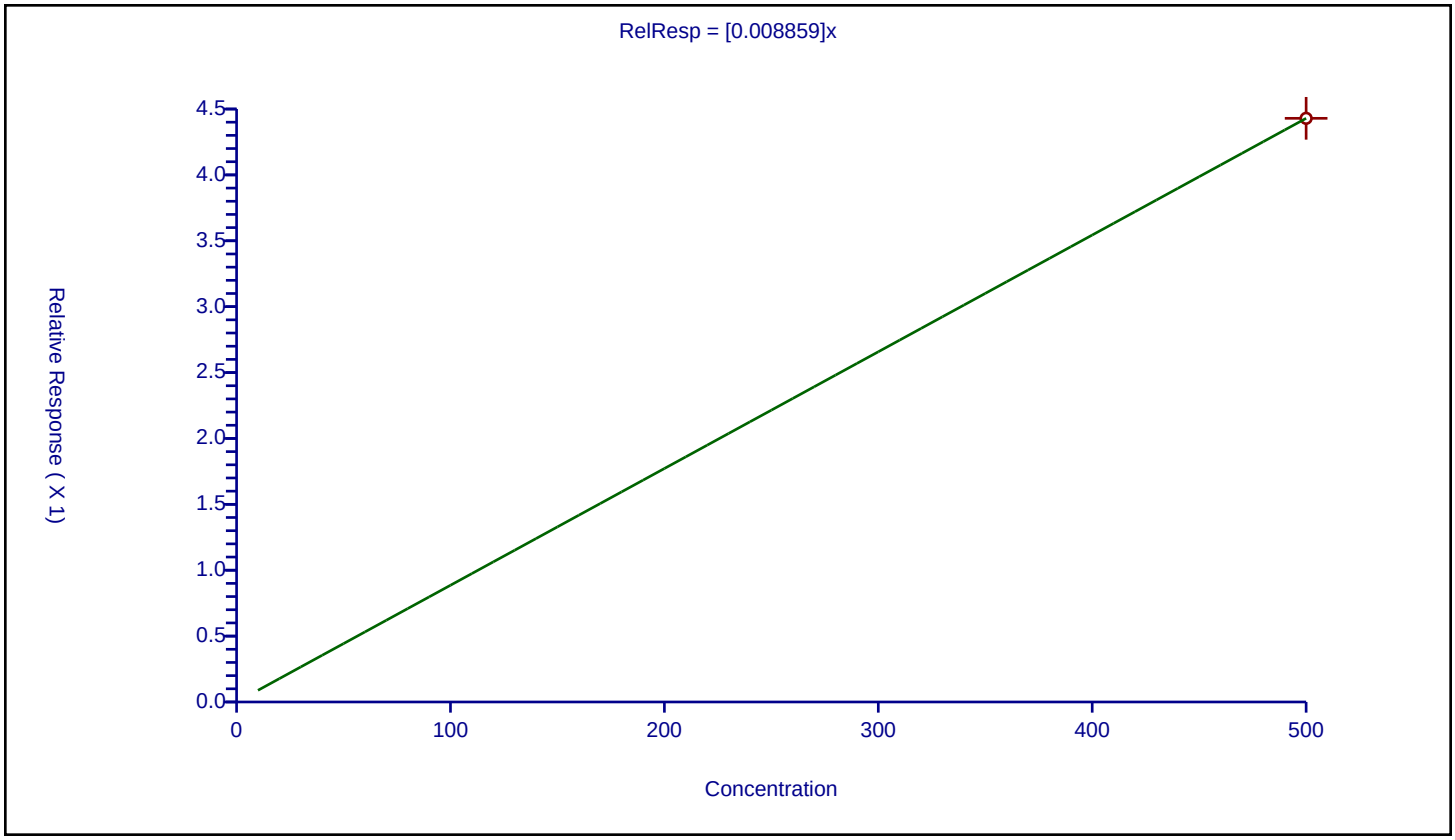
Curve Coefficients

Intercept:	0
Slope:	0.008859

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/4	500.0	4.429464	100.0	123594923.0	0.008859	Y



Calibration / PCB-1221 Peak 3

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

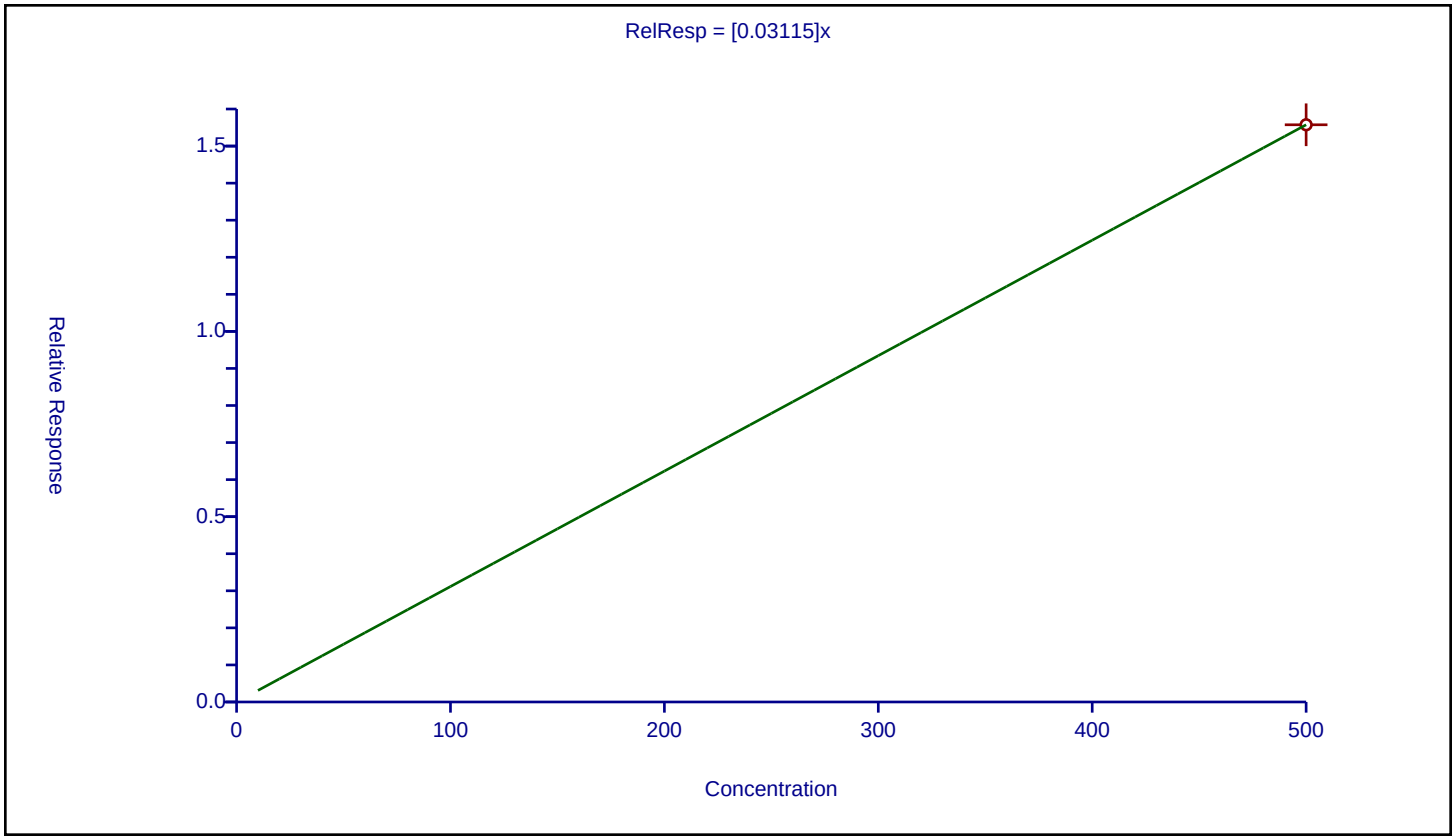
Curve Coefficients

Intercept:	0
Slope:	0.03115

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/4	500.0	15.574769	100.0	123594923.0	0.03115	Y



Calibration / PCB-1254 Peak 1

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

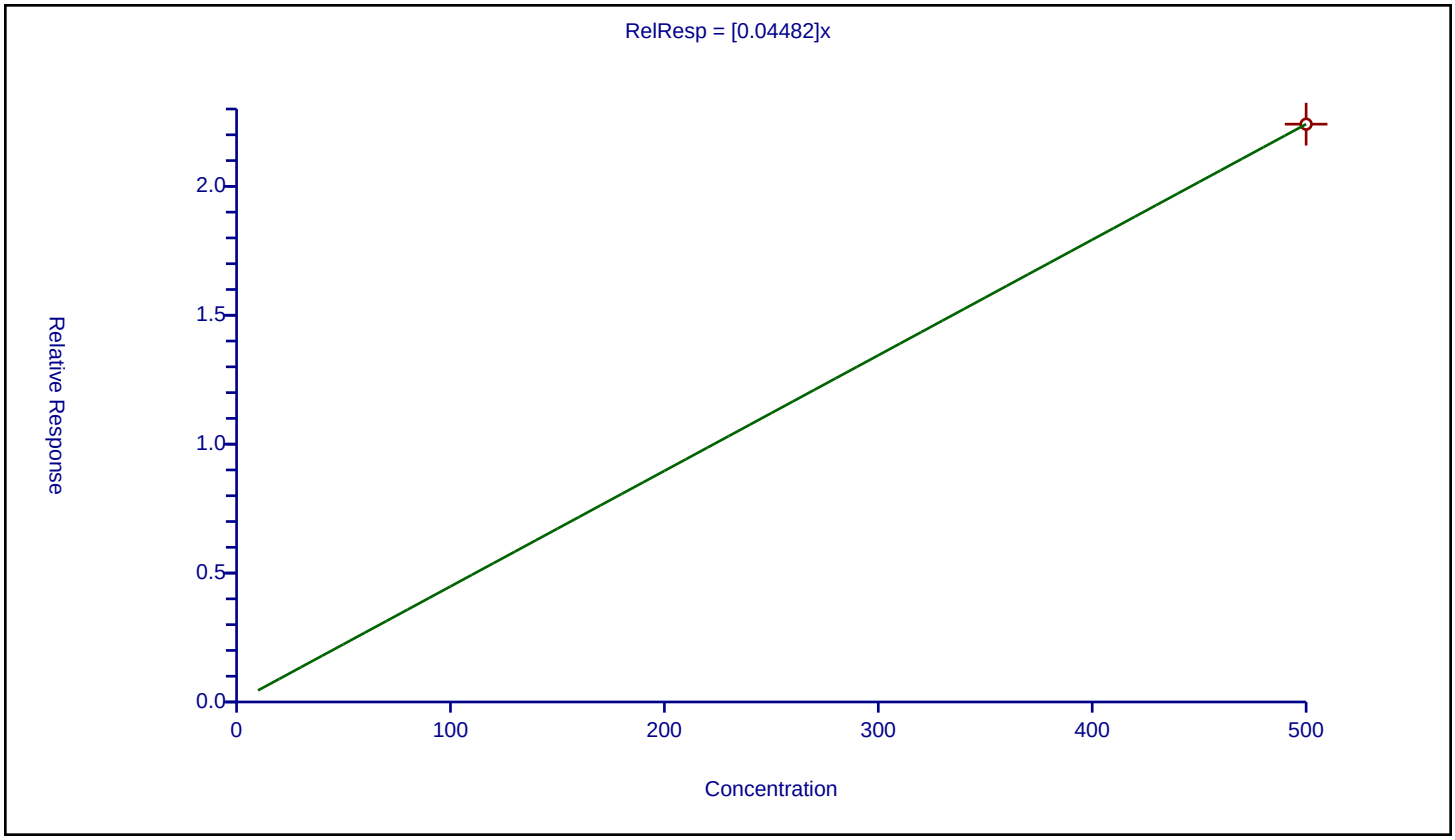
Curve Coefficients

Intercept:	0
Slope:	0.04482

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/4	500.0	22.412196	100.0	123594923.0	0.044824	Y



Calibration / PCB-1254 Peak 2

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

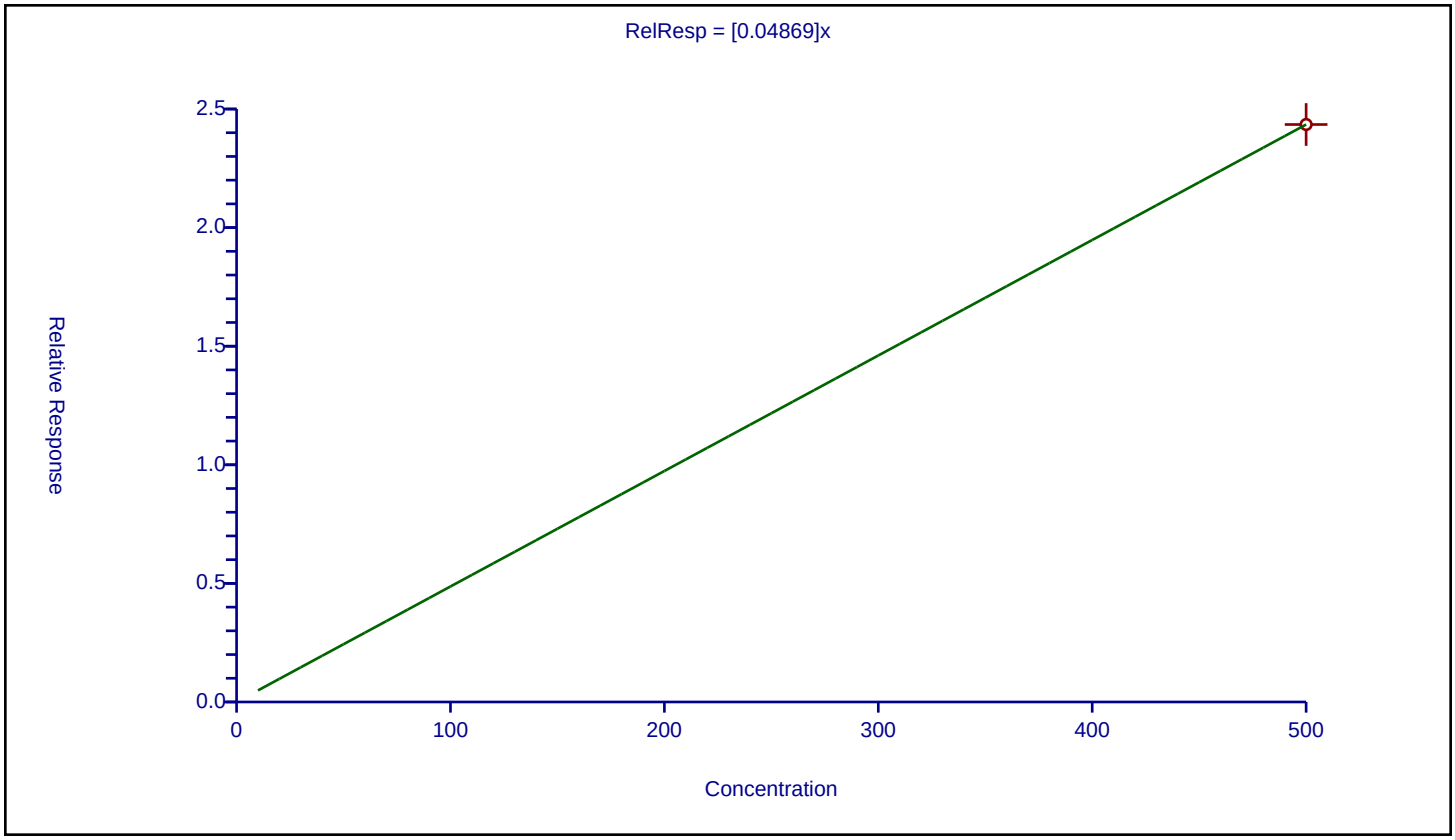
Curve Coefficients

Intercept:	0
Slope:	0.04869

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/4	500.0	24.346329	100.0	123594923.0	0.048693	Y



Calibration / PCB-1254 Peak 3

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

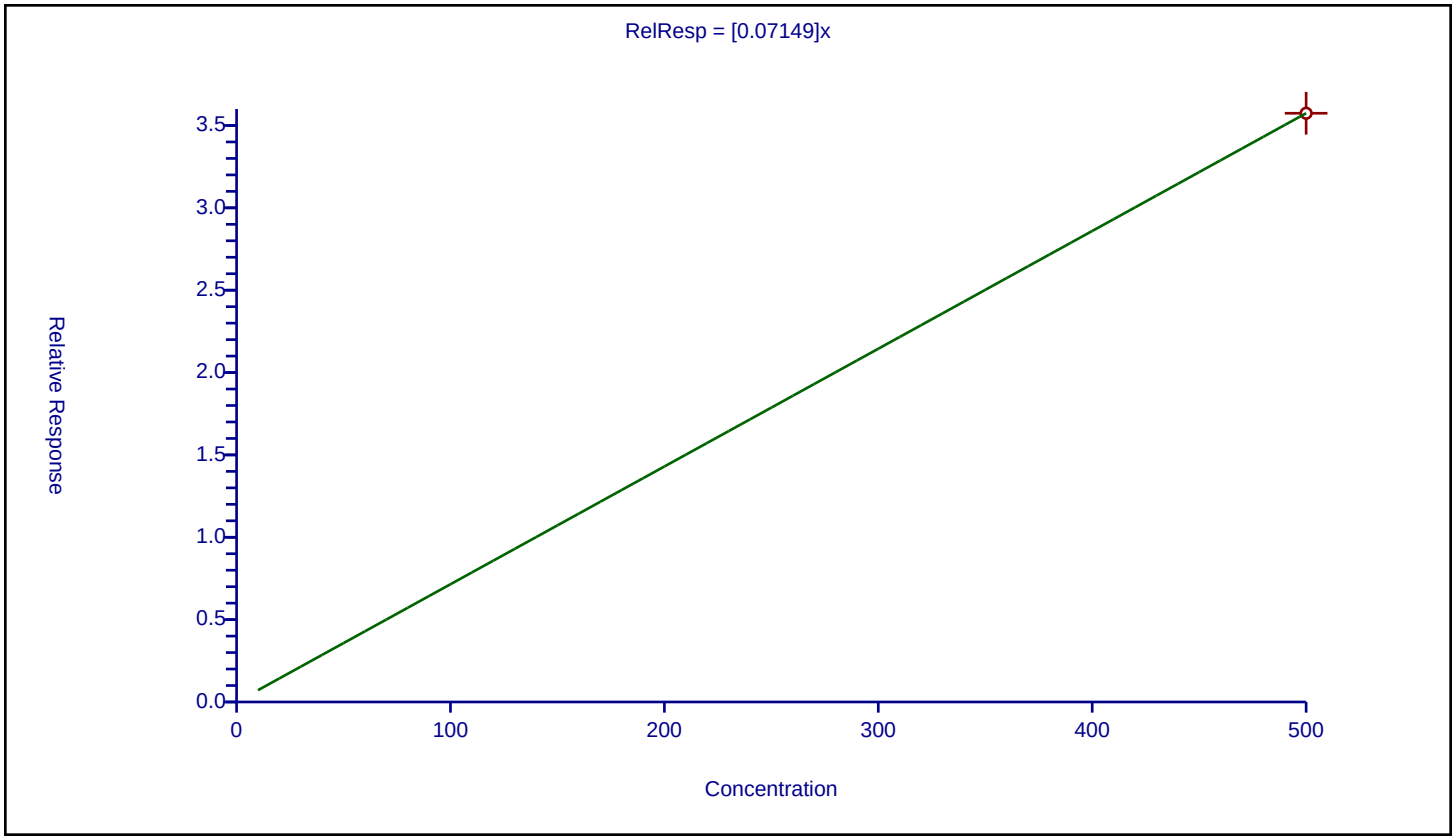
Curve Coefficients

Intercept:	0
Slope:	0.07149

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/4	500.0	35.743274	100.0	123594923.0	0.071487	Y



Calibration / PCB-1254 Peak 4

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

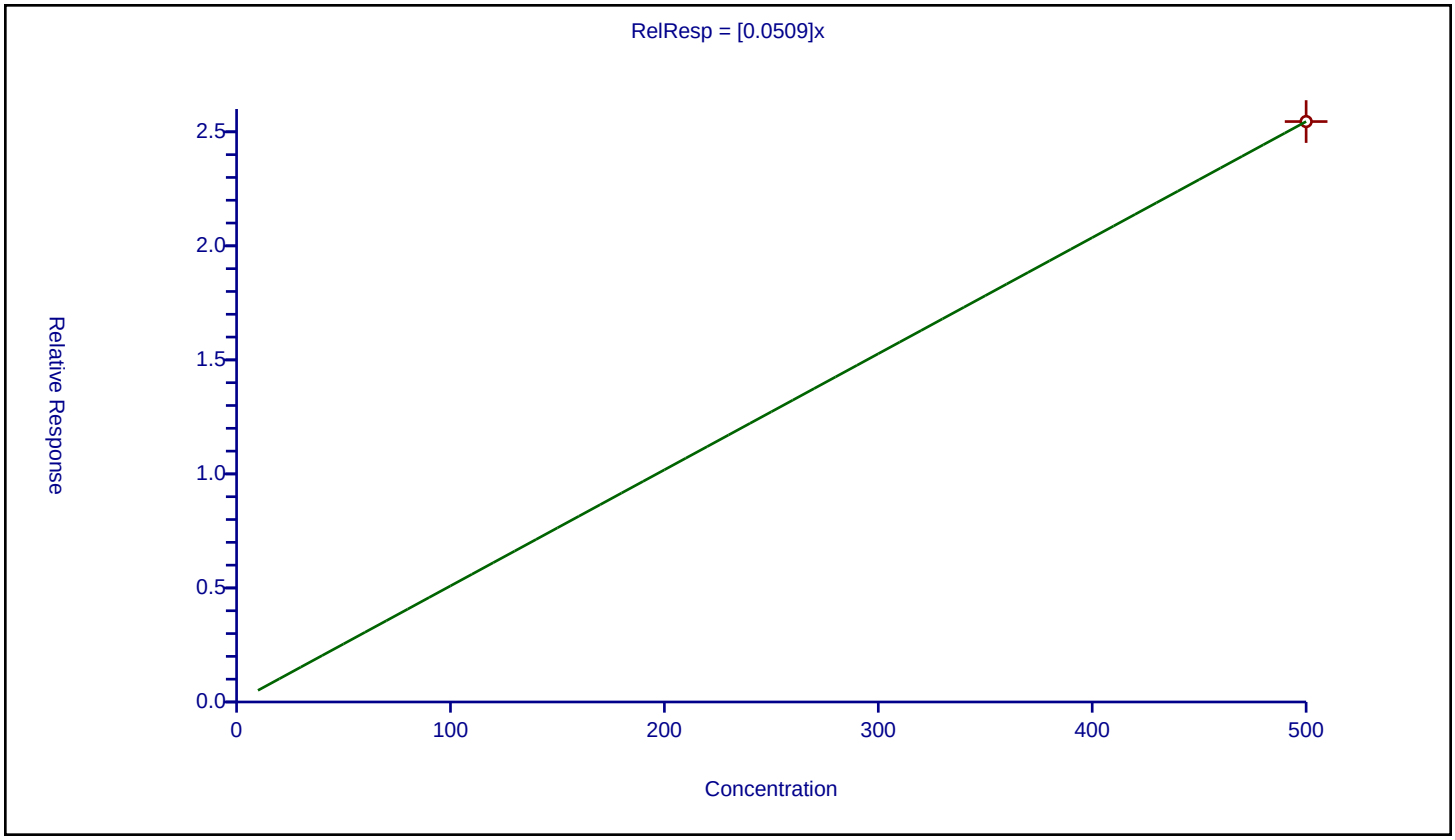
Curve Coefficients

Intercept:	0
Slope:	0.0509

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/4	500.0	25.450878	100.0	123594923.0	0.050902	Y



Calibration / PCB-1254 Peak 5

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

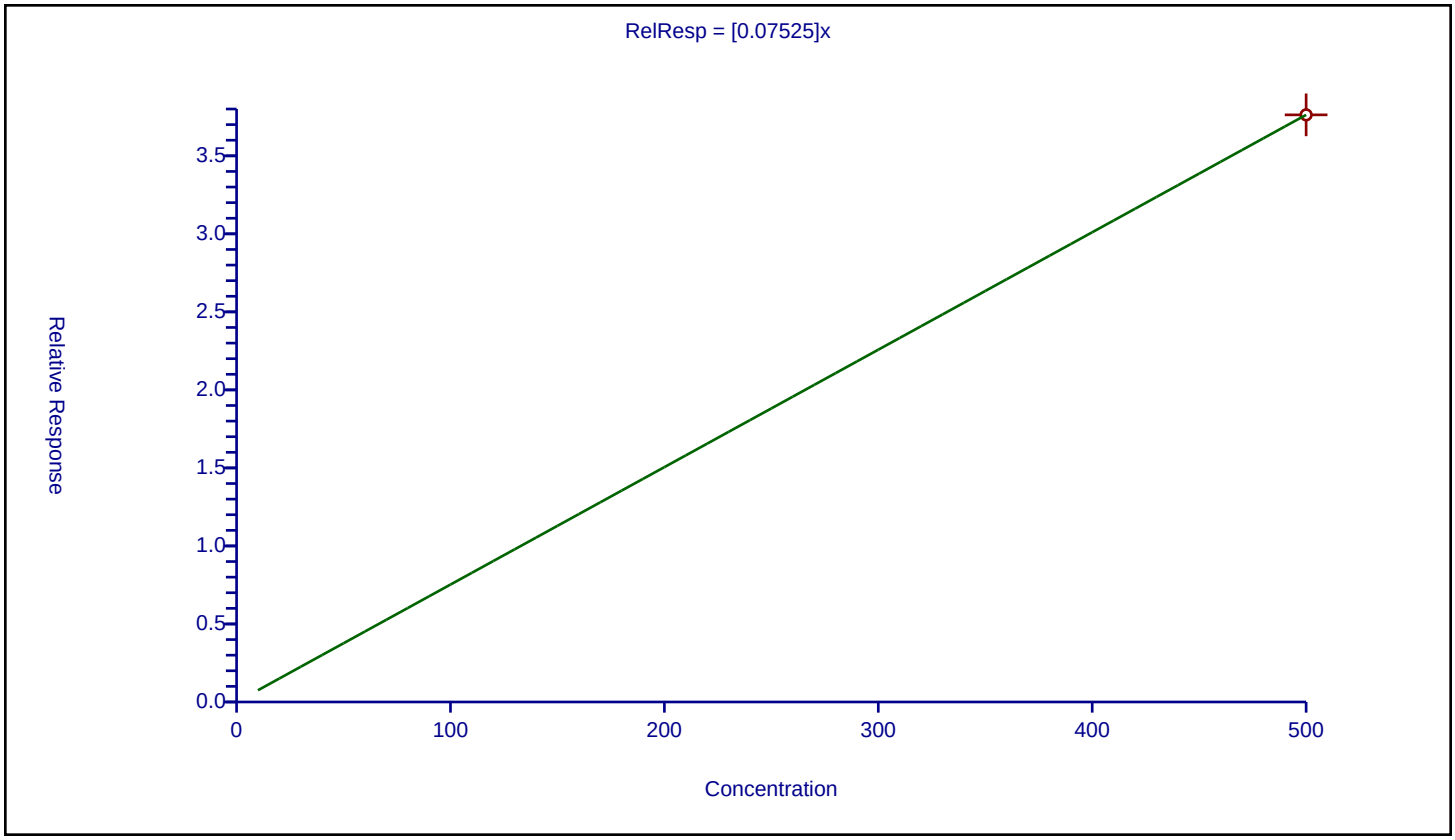
Curve Coefficients

Intercept:	0
Slope:	0.07525

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/4	500.0	37.625741	100.0	123594923.0	0.075251	Y



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-168095-2 Analy Batch No.: 591125

SDG No.:

Instrument ID: SGC_P3 GC Column: CLP1 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/25/2022 10:54 Calibration End Date: 10/25/2022 10:54 Calibration ID: 72280

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 280-591125/5	10250005.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1232 Peak 1	0.0245					Ave		0.0245						20.0			
PCB-1232 Peak 2	0.0199					Ave		0.0199						20.0			
PCB-1232 Peak 3	0.0417					Ave		0.0417						20.0			
PCB-1232 Peak 4	0.0179					Ave		0.0179						20.0			
PCB-1232 Peak 5	0.0172					Ave		0.0172						20.0			
PCB-1262 Peak 1	0.0420					Ave		0.0420						20.0			
PCB-1262 Peak 2	0.0570					Ave		0.0570						20.0			
PCB-1262 Peak 3	0.0692					Ave		0.0692						20.0			
PCB-1262 Peak 4	0.1375					Ave		0.1375						20.0			
PCB-1262 Peak 5	0.0540					Ave		0.0540						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-168095-2 Analy Batch No.: 591125

SDG No.:

Instrument ID: SGC_P3 GC Column: CLP1 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/25/2022 10:54 Calibration End Date: 10/25/2022 10:54 Calibration ID: 72280

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 280-591125/5	10250005.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1					LVL 1				
PCB-1232 Peak 1	BNB	Ave	15619645					500				
PCB-1232 Peak 2	BNB	Ave	12679176					500				
PCB-1232 Peak 3	BNB	Ave	26562285					500				
PCB-1232 Peak 4	BNB	Ave	11380938					500				
PCB-1232 Peak 5	BNB	Ave	10981309					500				
PCB-1262 Peak 1	BNB	Ave	26792595					500				
PCB-1262 Peak 2	BNB	Ave	36333105					500				
PCB-1262 Peak 3	BNB	Ave	44087924					500				
PCB-1262 Peak 4	BNB	Ave	87648208					500				
PCB-1262 Peak 5	BNB	Ave	34420907					500				

Curve Type Legend
Ave = Average ISTD

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250005.D
Lims ID: STD5 A3262
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 25-Oct-2022 10:54:39 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: STD5 A3262
Misc. Info.: 280-0115461-005
Operator ID: SMP Instrument ID: SGC_P3
Sublist: chrom-PCB_P3*sub4

Method: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\PCB_P3.m
Limit Group: GCSV - 8082A - IS
Last Update: 25-Oct-2022 16:41:37 Calib Date: 25-Oct-2022 11:31:41
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
Process Host: CTX1669

First Level Reviewer: USP3 Date: 25-Oct-2022 16:37:20

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.193	3.193	0.000	127494566	100.0	100.0	
2	2.946	2.946	0.000	118635285	100.0	100.0	
						RPD = 0.00	
7 PCB-1232							
1	4.333	4.333	0.000	15619645	500.0	500.0	
1	4.680	4.680	0.000	12679176	500.0	500.0	
1	5.130	5.130	0.000	26562285	500.0	500.0	
1	5.286	5.286	0.000	11380938	500.0	500.0	
1	5.716	5.716	0.000	10981309	500.0	500.0	
		Average of Peak Amounts =				500.0	
2	4.279	4.279	0.000	15291869	500.0	500.0	
2	4.652	4.652	0.000	13329303	500.0	500.0	
2	5.076	5.076	0.000	10335675	500.0	500.0	
2	5.226	5.226	0.000	10505738	500.0	500.0	
2	6.172	6.172	0.000	12132590	500.0	500.0	
		Average of Peak Amounts =				500.0	
						RPD = 0.00	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
5 PCB-1262							
1	7.116	7.116	0.000	26792595	500.0	500.0	
1	7.456	7.456	0.000	36333105	500.0	500.0	
1	7.950	7.950	0.000	44087924	500.0	500.0	
1	8.666	8.666	0.000	87648208	500.0	500.0	
1	9.086	9.086	0.000	34420907	500.0	500.0	
		Average of Peak Amounts =				500.0	
2	6.966	6.966	0.000	16576017	500.0	500.0	
2	7.982	7.982	0.000	41399340	500.0	500.0	
2	8.359	8.359	0.000	39227310	500.0	500.0	
2	8.692	8.692	0.000	77603421	500.0	500.0	
2	9.169	9.169	0.000	56596421	500.0	500.0	
		Average of Peak Amounts =				500.0	
						RPD = 0.00	
S 8 Polychlorinated biphenyls, Total							
1						1000.0	
2						1000.0	
						RPD = 0.00	

QC Flag Legend

Processing Flags

Reagents:

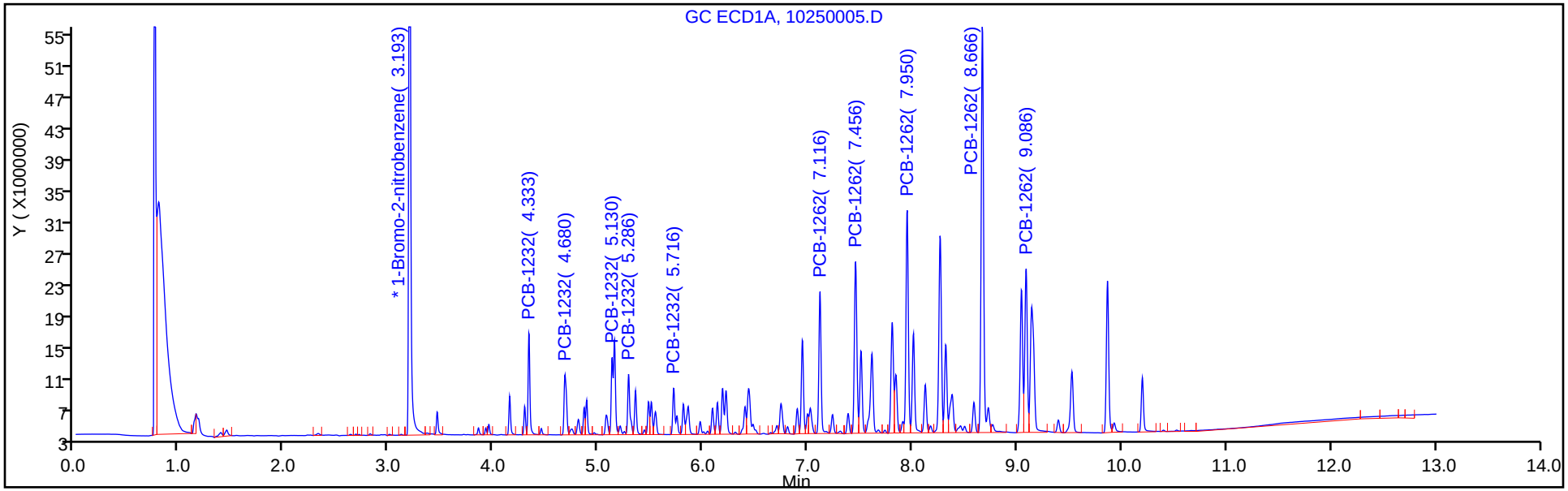
AR_3262_L7_00028	Amount Added: 100.00	Units: uL	
BNB IS_00023	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 25-Oct-2022 16:41:37 Chrom Revision: 2.3 28-Sep-2022 12:57:42

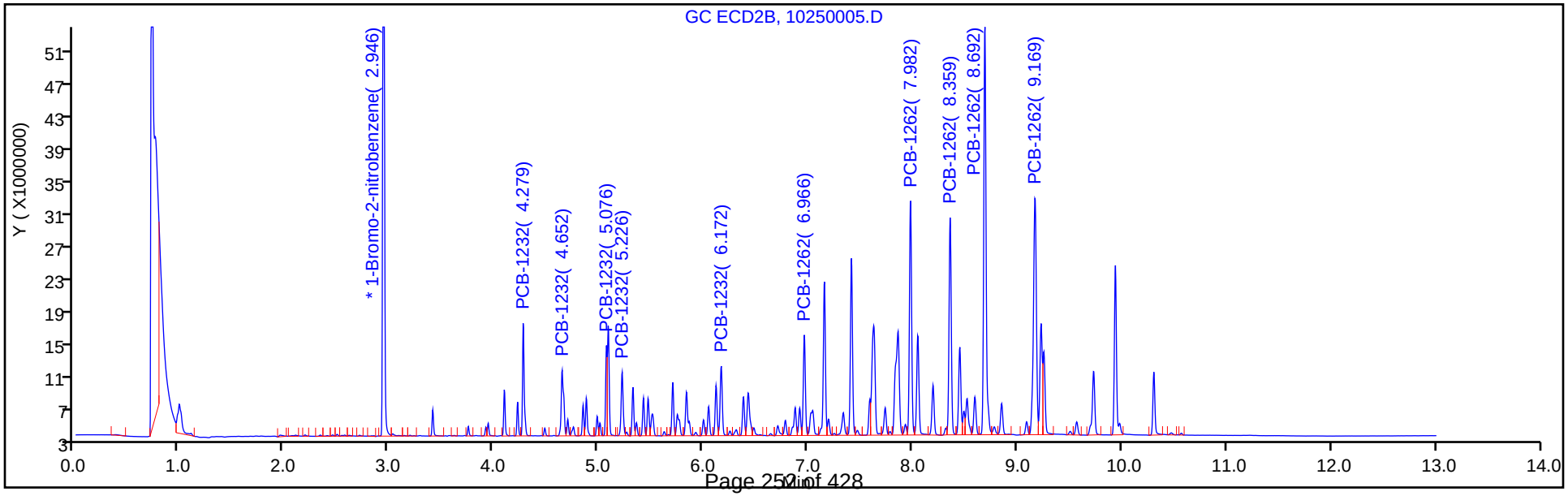
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250005.D				
Injection Date:	25-Oct-2022 10:54:39	Instrument ID:	SGC_P3	Operator ID:	SMP
Lims ID:	STD5 A3262			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Calibration / PCB-1232 Peak 1

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

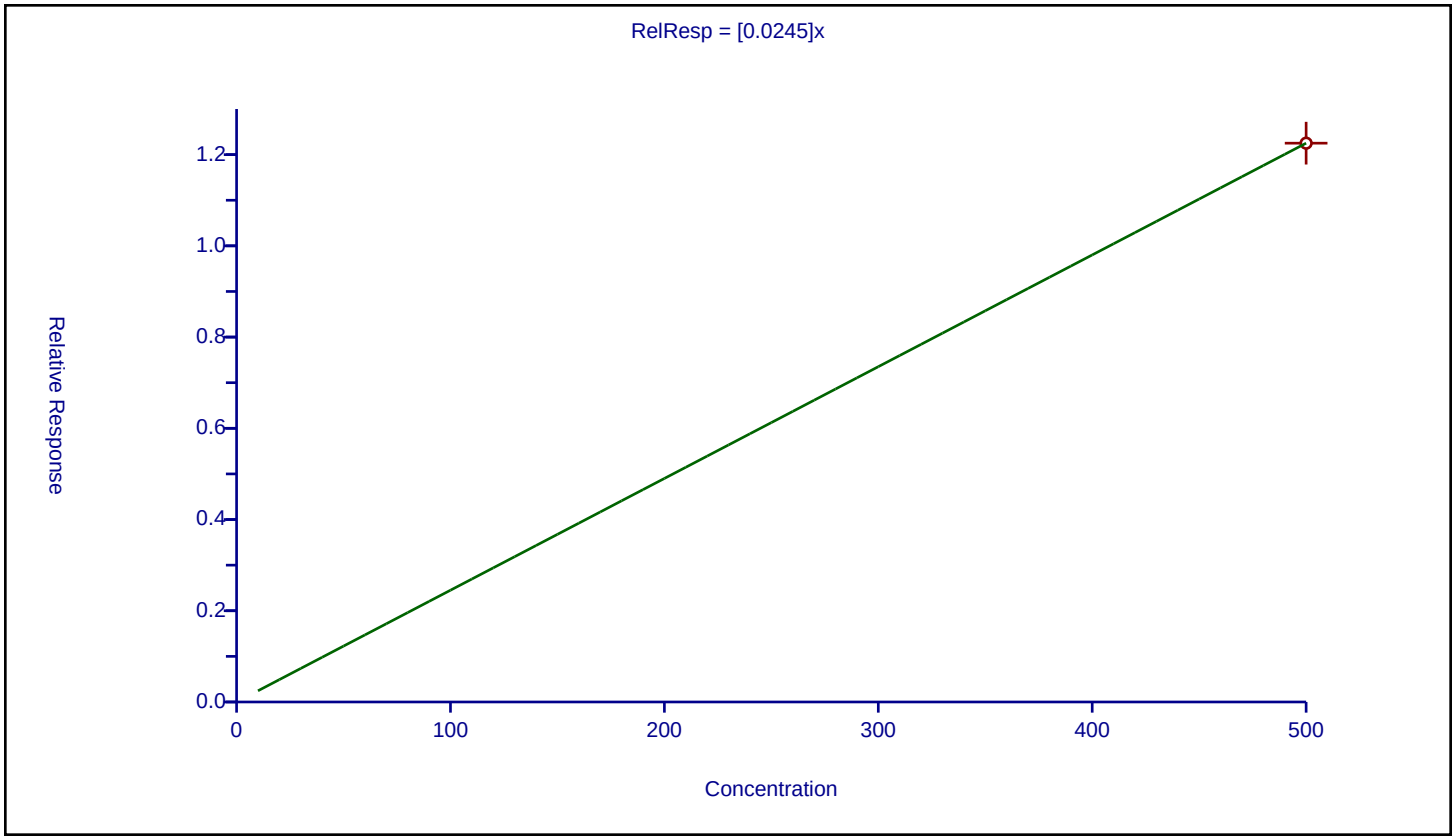
Curve Coefficients

Intercept:	0
Slope:	0.0245

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/5	500.0	12.251224	100.0	127494566.0	0.024502	Y



Calibration / PCB-1232 Peak 2

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

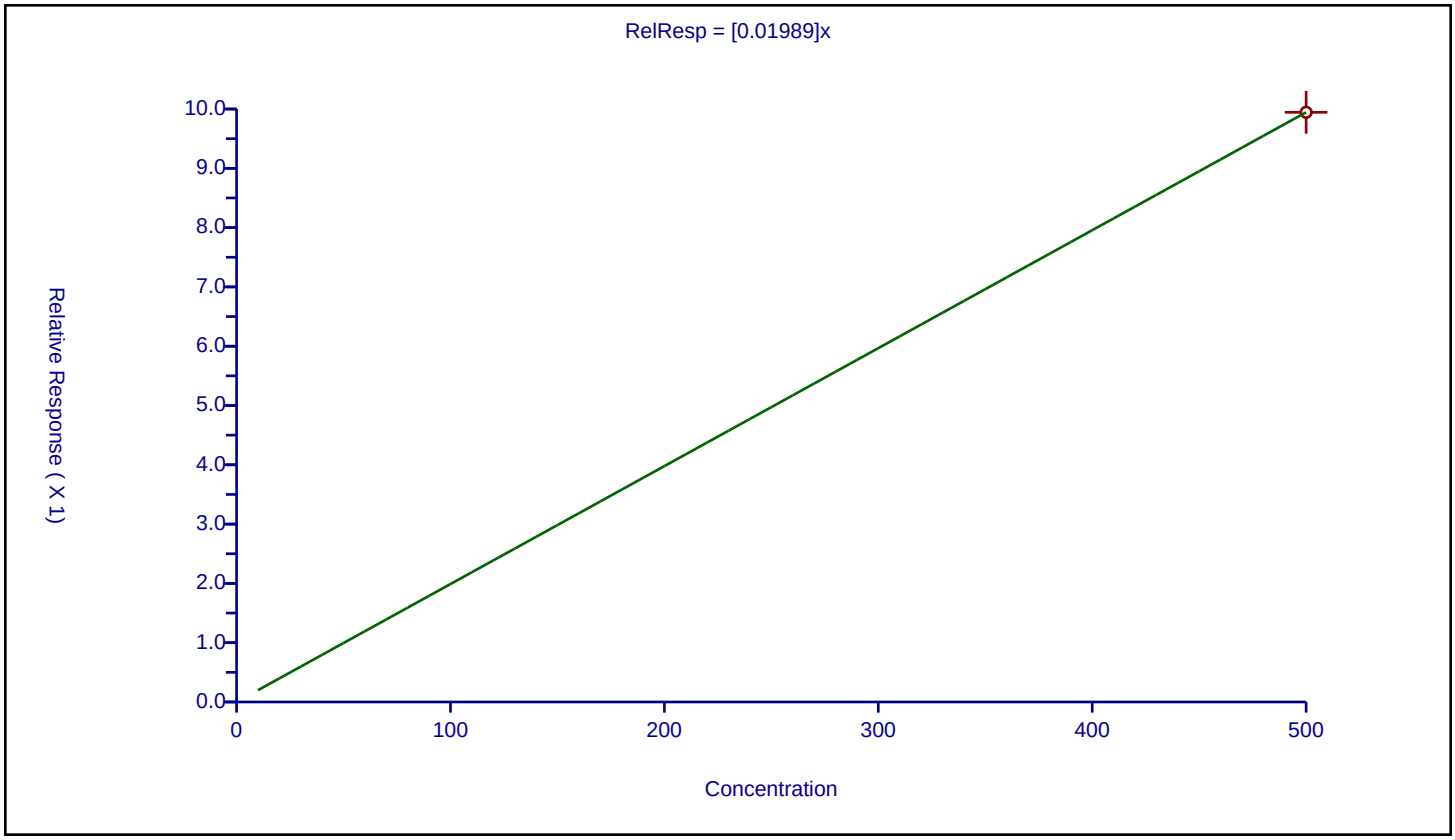
Curve Coefficients

Intercept:	0
Slope:	0.01989

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/5	500.0	9.944876	100.0	127494566.0	0.01989	Y



Calibration / PCB-1232 Peak 3

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

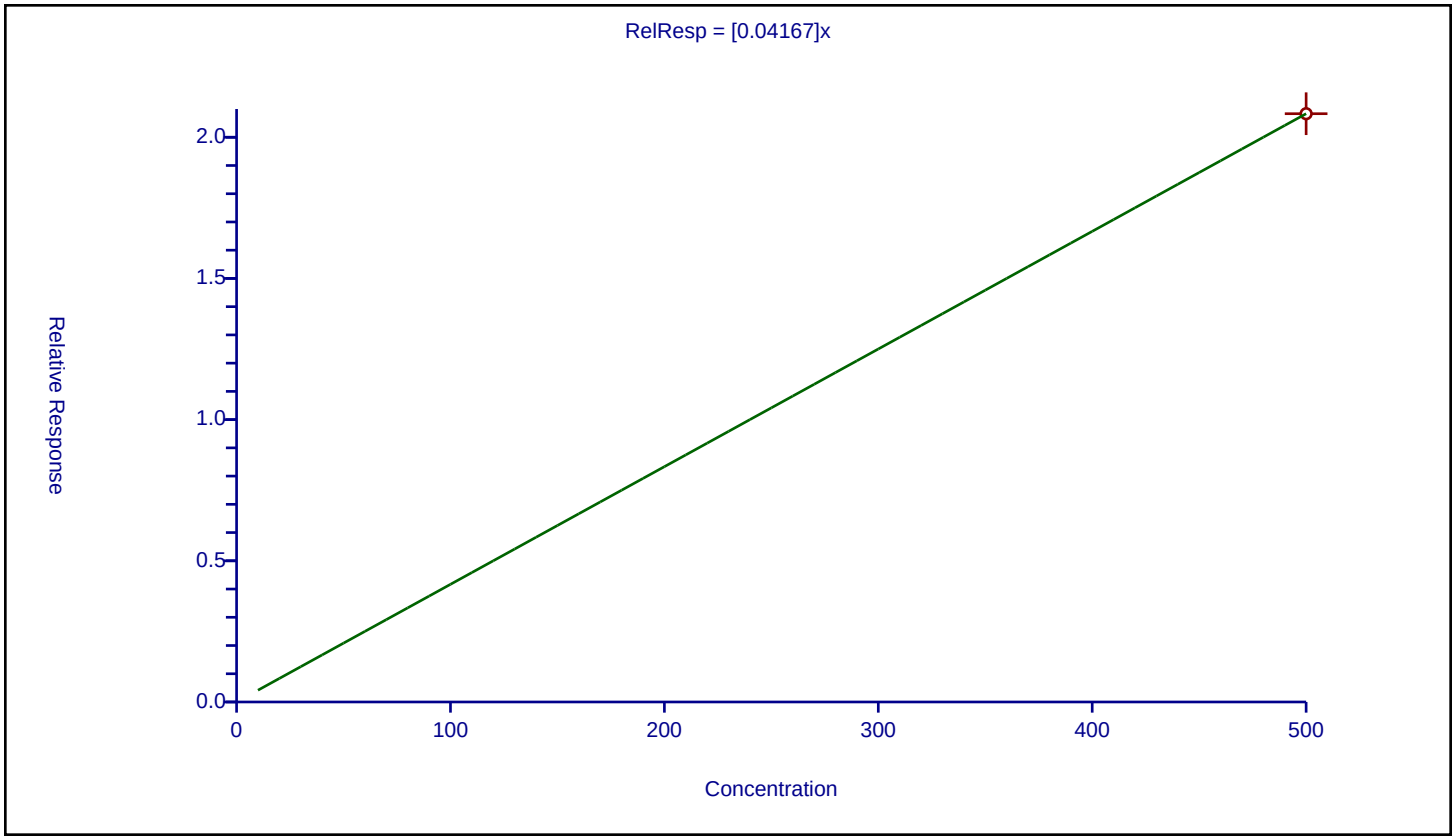
Curve Coefficients

Intercept:	0
Slope:	0.04167

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/5	500.0	20.834053	100.0	127494566.0	0.041668	Y



Calibration / PCB-1232 Peak 4

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

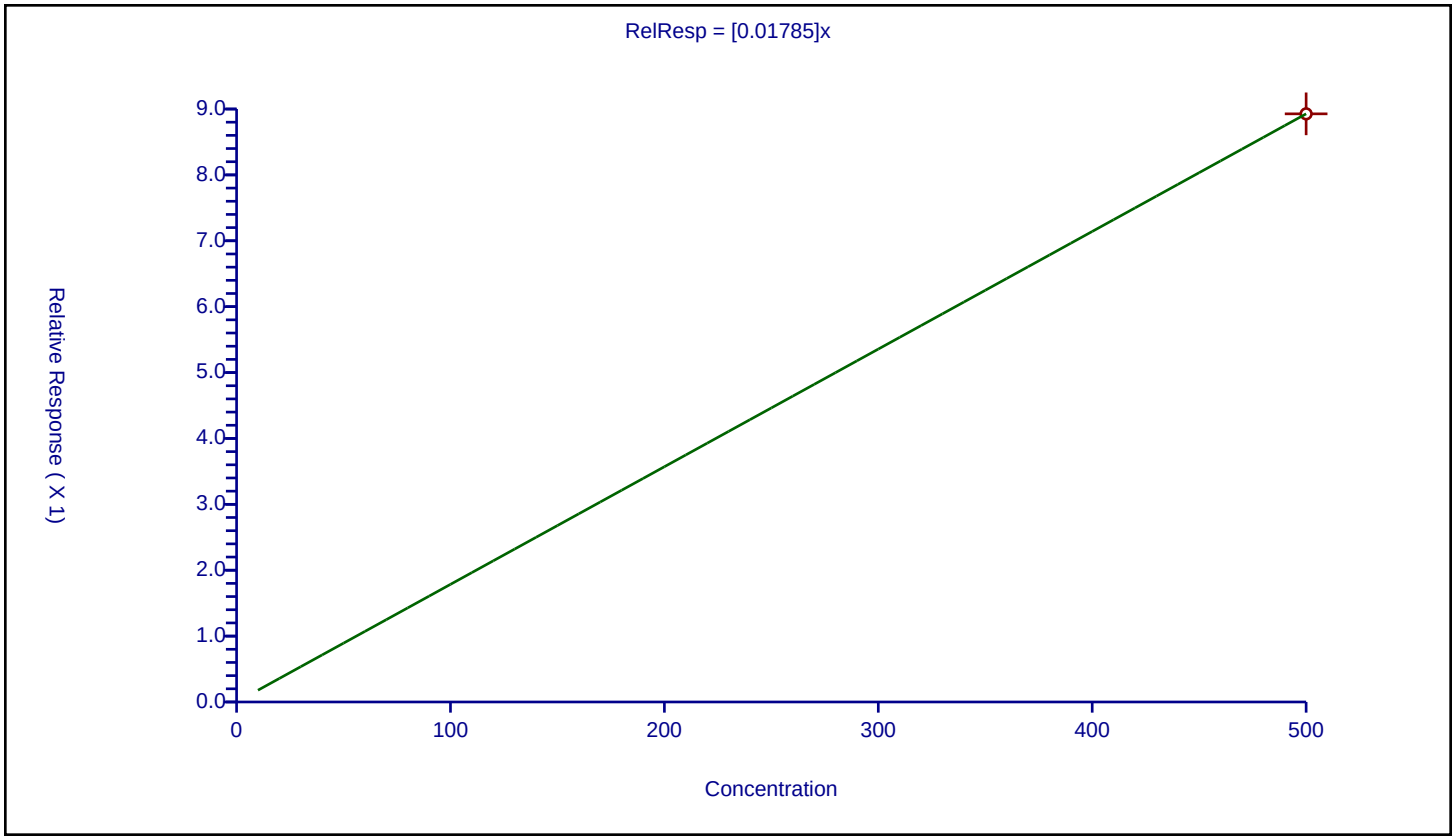
Curve Coefficients

Intercept:	0
Slope:	0.01785

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/5	500.0	8.926606	100.0	127494566.0	0.017853	Y



Calibration / PCB-1232 Peak 5

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

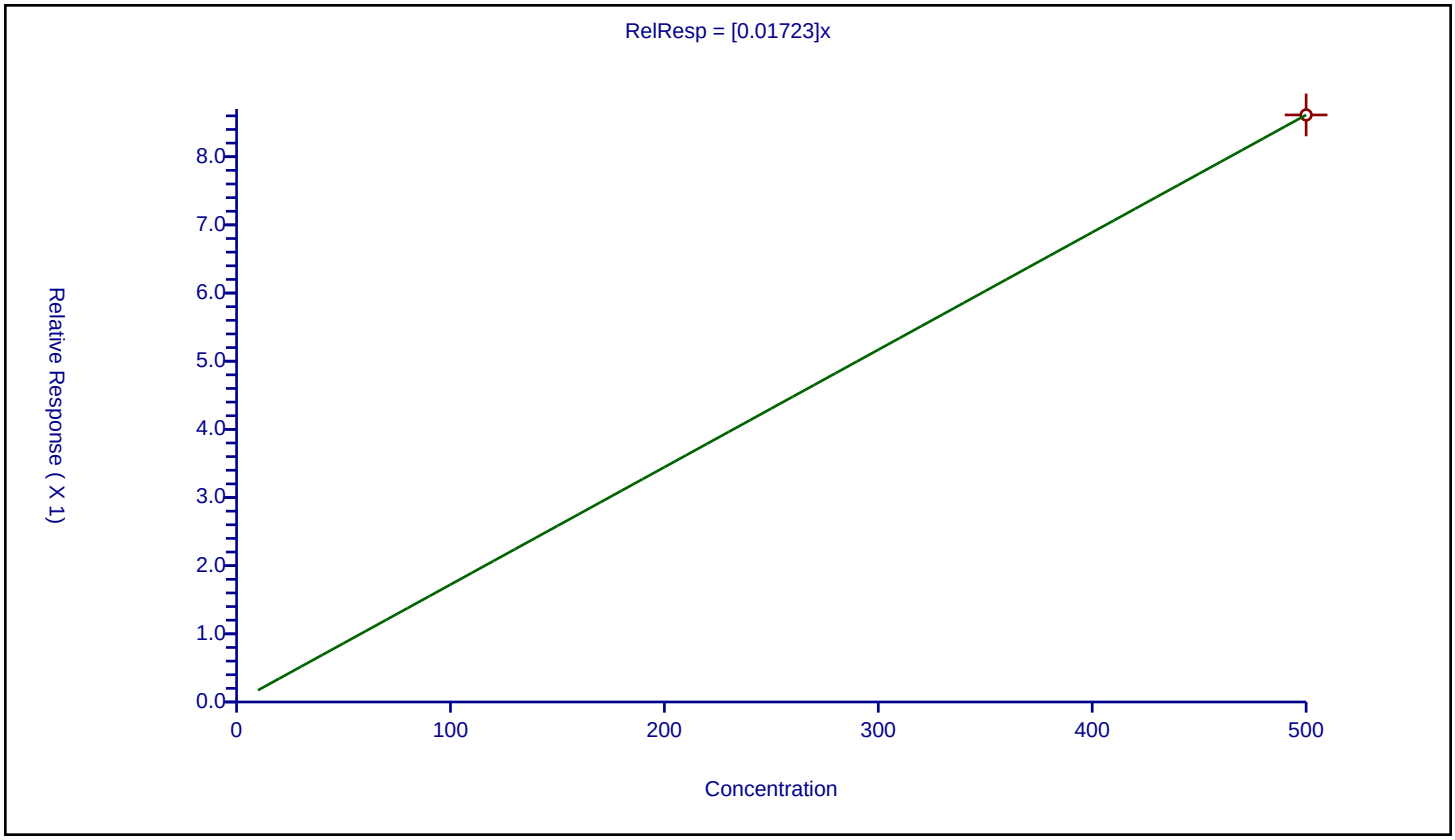
Curve Coefficients

Intercept:	0
Slope:	0.01723

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/5	500.0	8.613158	100.0	127494566.0	0.017226	Y



Calibration / PCB-1262 Peak 1

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

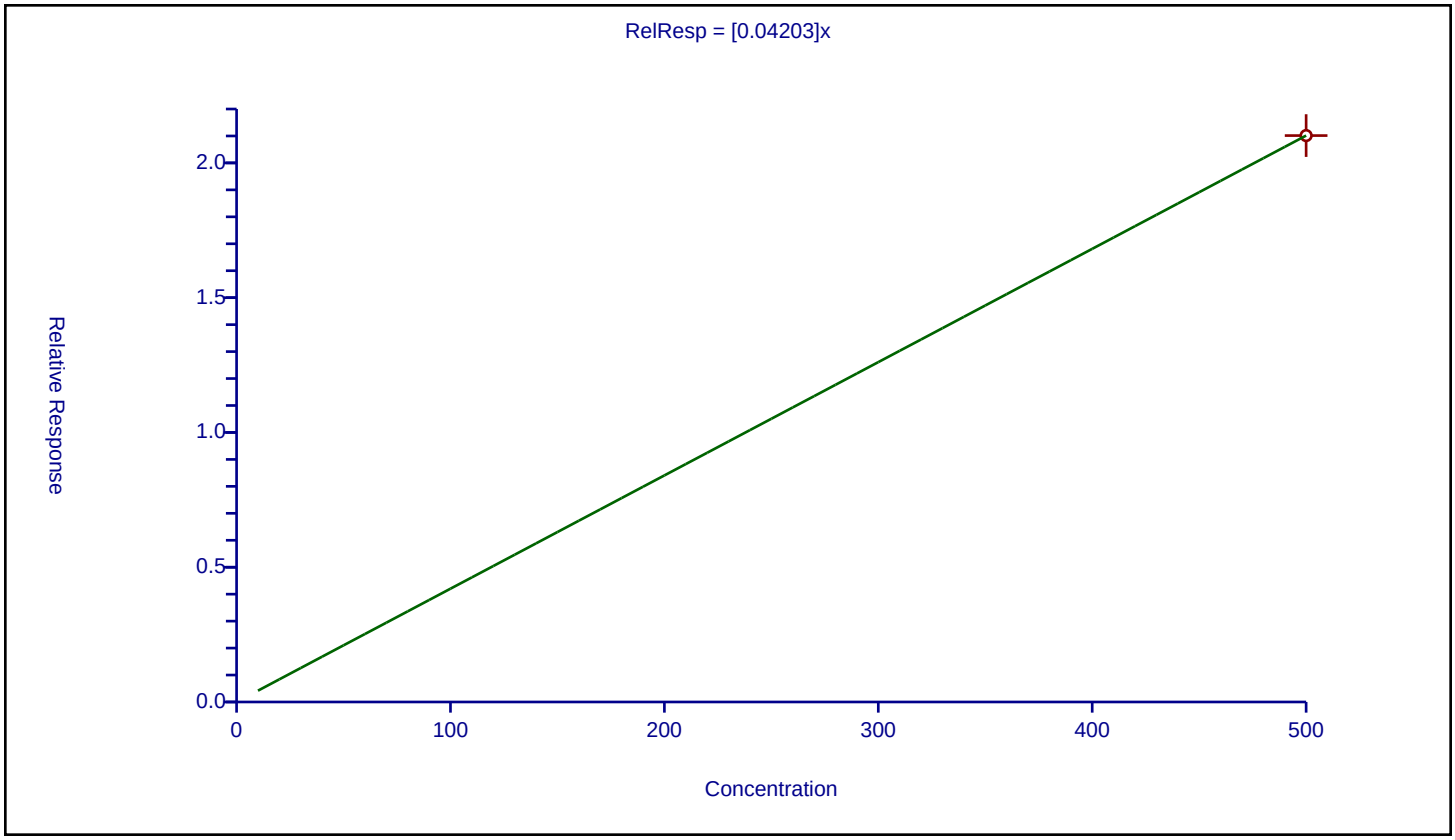
Curve Coefficients

Intercept:	0
Slope:	0.04203

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/5	500.0	21.014696	100.0	127494566.0	0.042029	Y



Calibration / PCB-1262 Peak 2

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

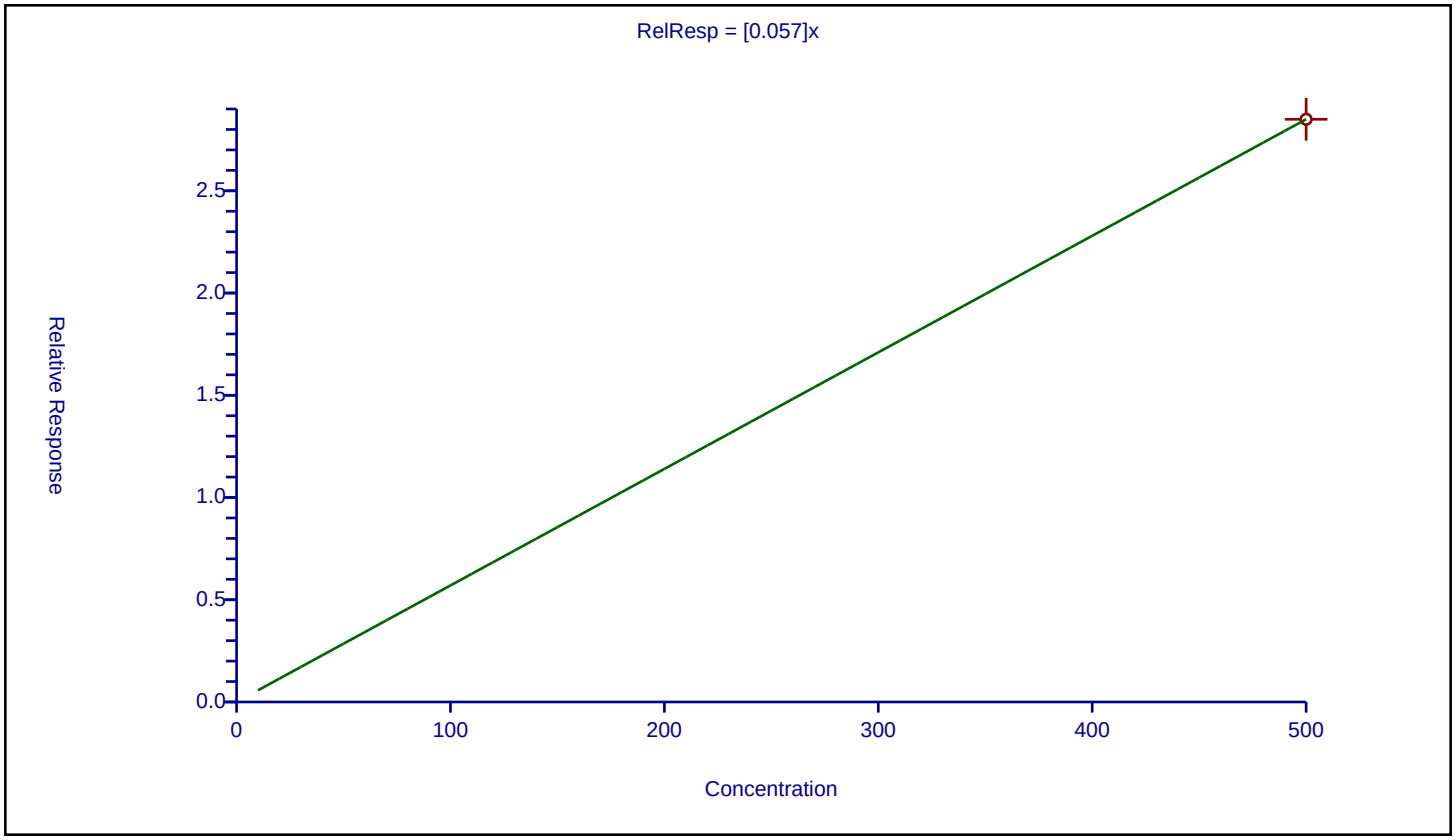
Curve Coefficients

Intercept:	0
Slope:	0.057

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/5	500.0	28.497768	100.0	127494566.0	0.056996	Y



Calibration / PCB-1262 Peak 3

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

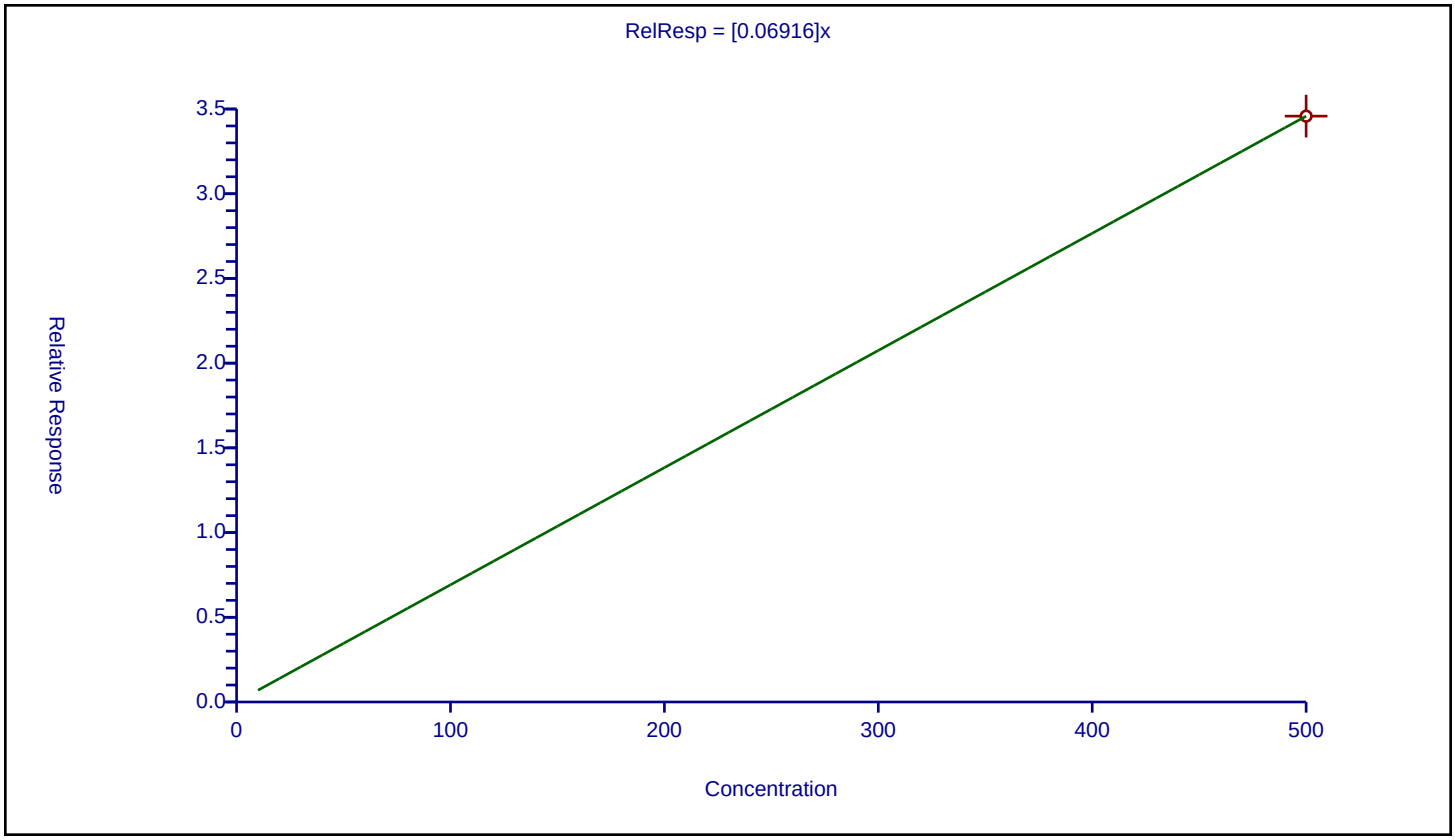
Curve Coefficients

Intercept:	0
Slope:	0.06916

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/5	500.0	34.580238	100.0	127494566.0	0.06916	Y



Calibration / PCB-1262 Peak 4

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

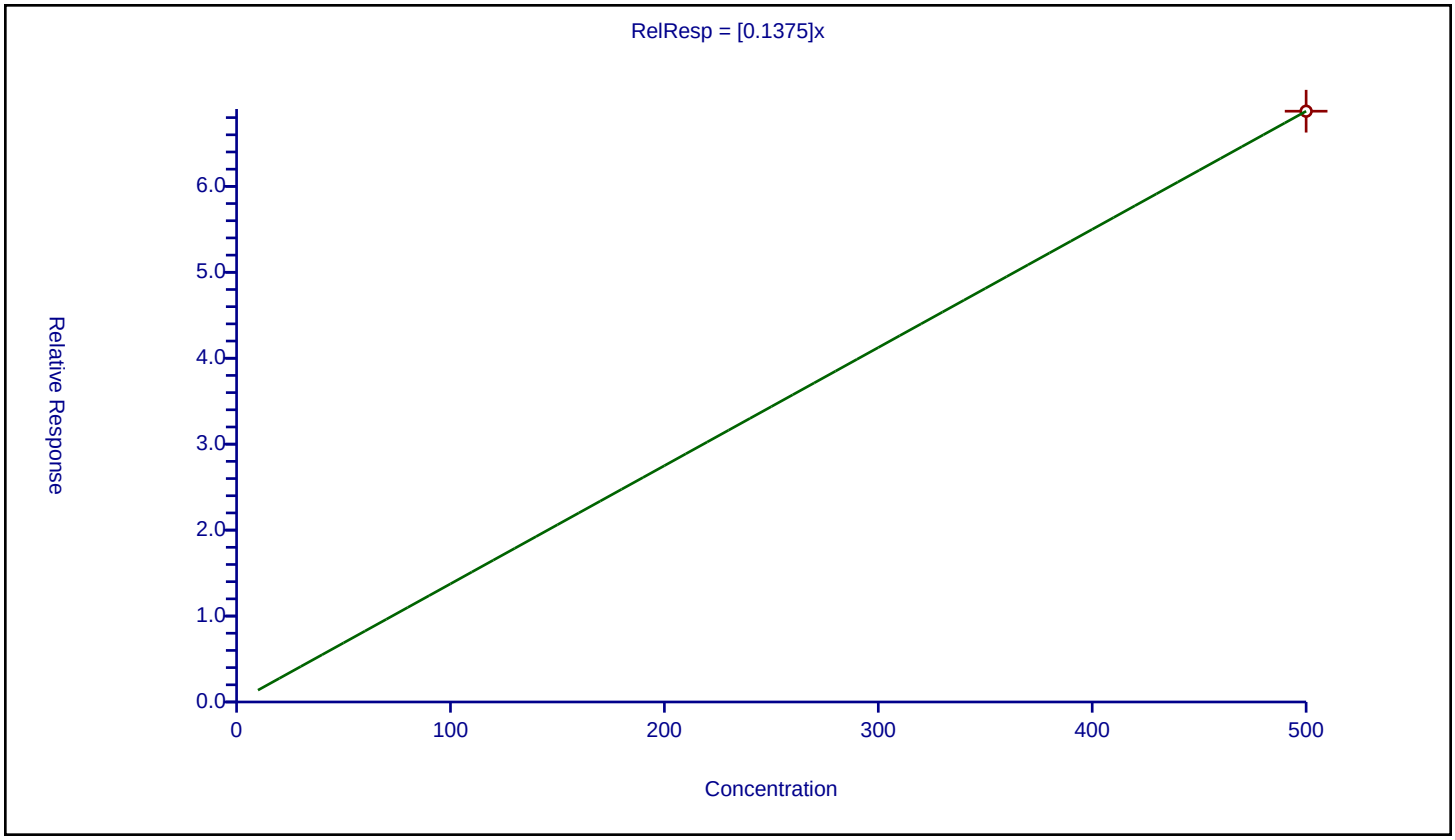
Curve Coefficients

Intercept:	0
Slope:	0.1375

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/5	500.0	68.746623	100.0	127494566.0	0.137493	Y



Calibration / PCB-1262 Peak 5

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

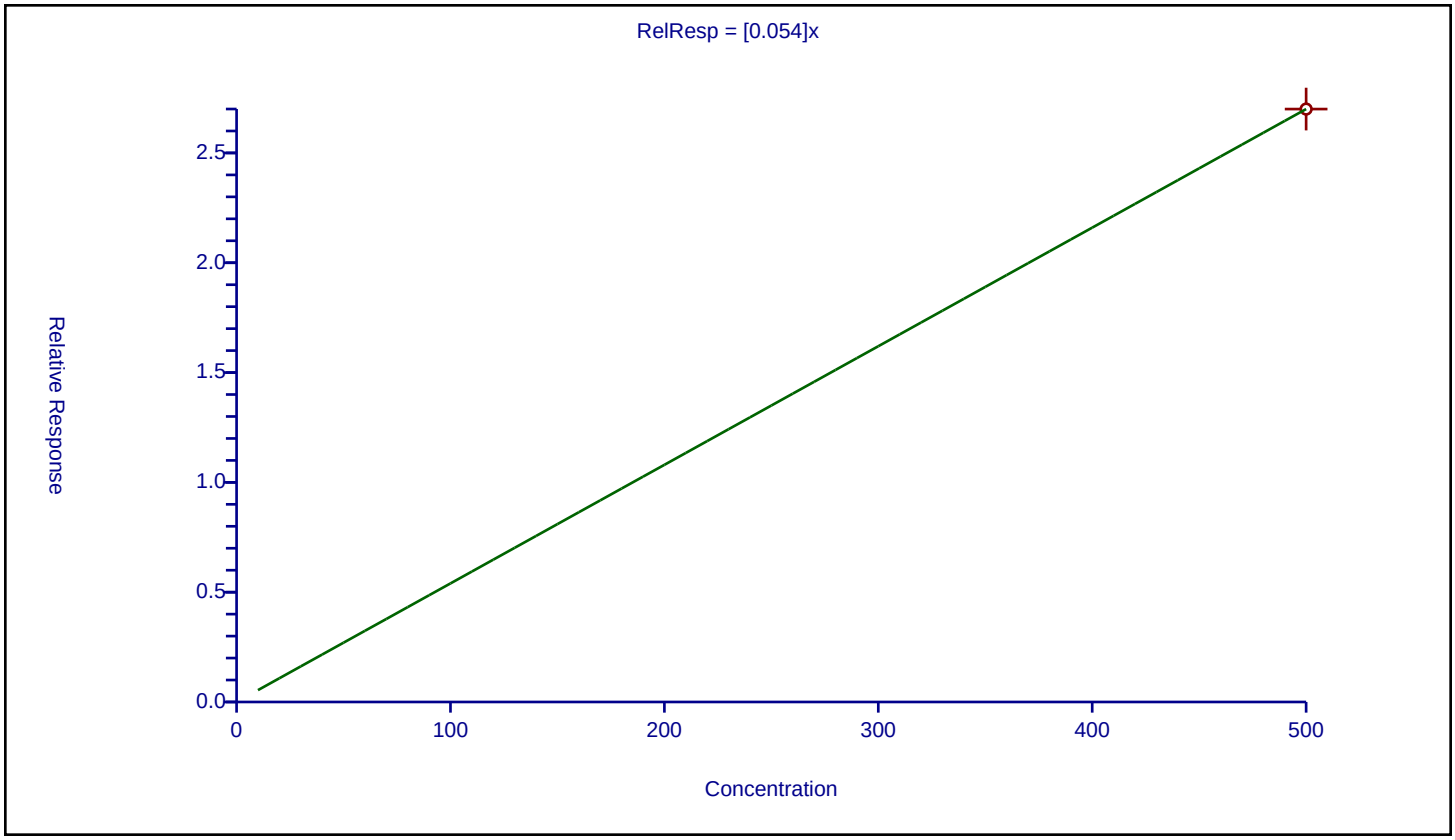
Curve Coefficients

Intercept:	0
Slope:	0.054

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/5	500.0	26.99794	100.0	127494566.0	0.053996	Y



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-168095-2 Analy Batch No.: 591125

SDG No.:

Instrument ID: SGC_P3 GC Column: CLP2 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/25/2022 10:54 Calibration End Date: 10/25/2022 10:54 Calibration ID: 72281

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 280-591125/5	10250005.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1232 Peak 1	0.0258					Ave		0.0258						20.0			
PCB-1232 Peak 2	0.0225					Ave		0.0225						20.0			
PCB-1232 Peak 3	0.0174					Ave		0.0174						20.0			
PCB-1232 Peak 4	0.0177					Ave		0.0177						20.0			
PCB-1232 Peak 5	0.0205					Ave		0.0205						20.0			
PCB-1262 Peak 1	0.0279					Ave		0.0279						20.0			
PCB-1262 Peak 2	0.0698					Ave		0.0698						20.0			
PCB-1262 Peak 3	0.0661					Ave		0.0661						20.0			
PCB-1262 Peak 4	0.1308					Ave		0.1308						20.0			
PCB-1262 Peak 5	0.0954					Ave		0.0954						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-168095-2 Analy Batch No.: 591125

SDG No.:

Instrument ID: SGC_P3 GC Column: CLP2 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/25/2022 10:54 Calibration End Date: 10/25/2022 10:54 Calibration ID: 72281

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 280-591125/5	10250005.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1					LVL 1				
PCB-1232 Peak 1	BNB	Ave	15291869					500				
PCB-1232 Peak 2	BNB	Ave	13329303					500				
PCB-1232 Peak 3	BNB	Ave	10335675					500				
PCB-1232 Peak 4	BNB	Ave	10505738					500				
PCB-1232 Peak 5	BNB	Ave	12132590					500				
PCB-1262 Peak 1	BNB	Ave	16576017					500				
PCB-1262 Peak 2	BNB	Ave	41399340					500				
PCB-1262 Peak 3	BNB	Ave	39227310					500				
PCB-1262 Peak 4	BNB	Ave	77603421					500				
PCB-1262 Peak 5	BNB	Ave	56596421					500				

Curve Type Legend
Ave = Average ISTD

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250005.D
Lims ID: STD5 A3262
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 25-Oct-2022 10:54:39 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: STD5 A3262
Misc. Info.: 280-0115461-005
Operator ID: SMP Instrument ID: SGC_P3
Sublist: chrom-PCB_P3*sub4

Method: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\PCB_P3.m
Limit Group: GCSV - 8082A - IS
Last Update: 25-Oct-2022 16:41:37 Calib Date: 25-Oct-2022 11:31:41
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
Process Host: CTX1669

First Level Reviewer: USP3 Date: 25-Oct-2022 16:37:20

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.193	3.193	0.000	127494566	100.0	100.0	
2	2.946	2.946	0.000	118635285	100.0	100.0	
						RPD = 0.00	
7 PCB-1232							
1	4.333	4.333	0.000	15619645	500.0	500.0	
1	4.680	4.680	0.000	12679176	500.0	500.0	
1	5.130	5.130	0.000	26562285	500.0	500.0	
1	5.286	5.286	0.000	11380938	500.0	500.0	
1	5.716	5.716	0.000	10981309	500.0	500.0	
		Average of Peak Amounts =				500.0	
2	4.279	4.279	0.000	15291869	500.0	500.0	
2	4.652	4.652	0.000	13329303	500.0	500.0	
2	5.076	5.076	0.000	10335675	500.0	500.0	
2	5.226	5.226	0.000	10505738	500.0	500.0	
2	6.172	6.172	0.000	12132590	500.0	500.0	
		Average of Peak Amounts =				500.0	
						RPD = 0.00	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
5 PCB-1262							
1	7.116	7.116	0.000	26792595	500.0	500.0	
1	7.456	7.456	0.000	36333105	500.0	500.0	
1	7.950	7.950	0.000	44087924	500.0	500.0	
1	8.666	8.666	0.000	87648208	500.0	500.0	
1	9.086	9.086	0.000	34420907	500.0	500.0	
		Average of Peak Amounts =				500.0	
2	6.966	6.966	0.000	16576017	500.0	500.0	
2	7.982	7.982	0.000	41399340	500.0	500.0	
2	8.359	8.359	0.000	39227310	500.0	500.0	
2	8.692	8.692	0.000	77603421	500.0	500.0	
2	9.169	9.169	0.000	56596421	500.0	500.0	
		Average of Peak Amounts =				500.0	
						RPD = 0.00	
S 8 Polychlorinated biphenyls, Total							
1						1000.0	
2						1000.0	
						RPD = 0.00	

QC Flag Legend

Processing Flags

Reagents:

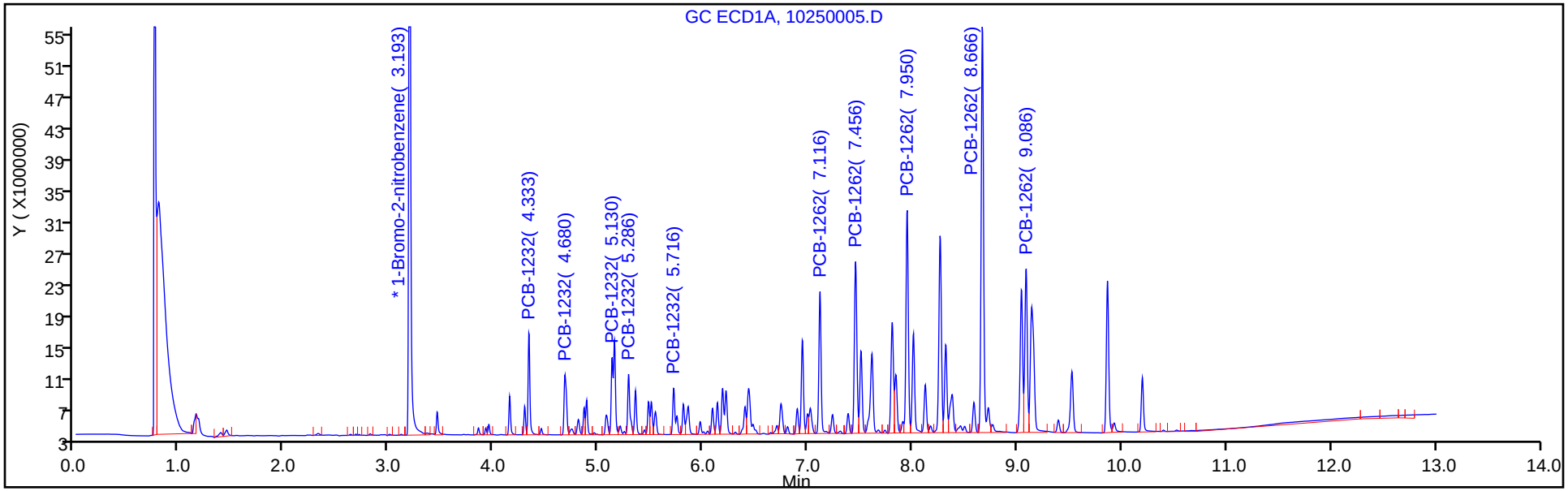
AR_3262_L7_00028	Amount Added: 100.00	Units: uL	
BNB IS_00023	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 25-Oct-2022 16:41:37 Chrom Revision: 2.3 28-Sep-2022 12:57:42

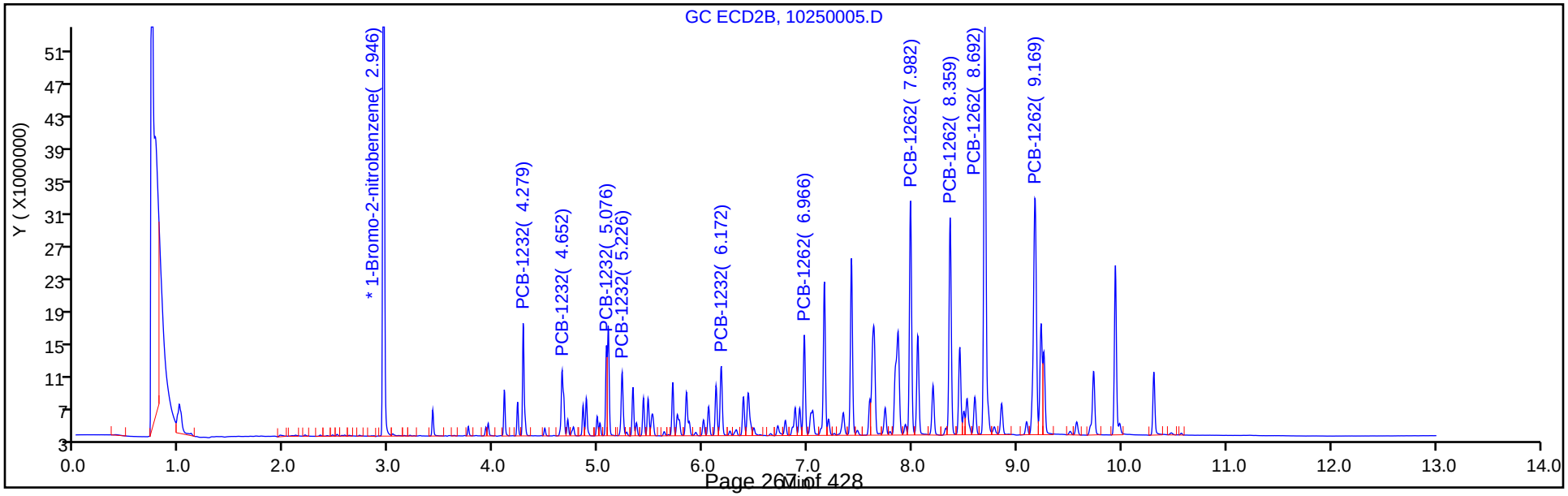
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250005.D				
Injection Date:	25-Oct-2022 10:54:39	Instrument ID:	SGC_P3	Operator ID:	SMP
Lims ID:	STD5 A3262			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Calibration / PCB-1232 Peak 1

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

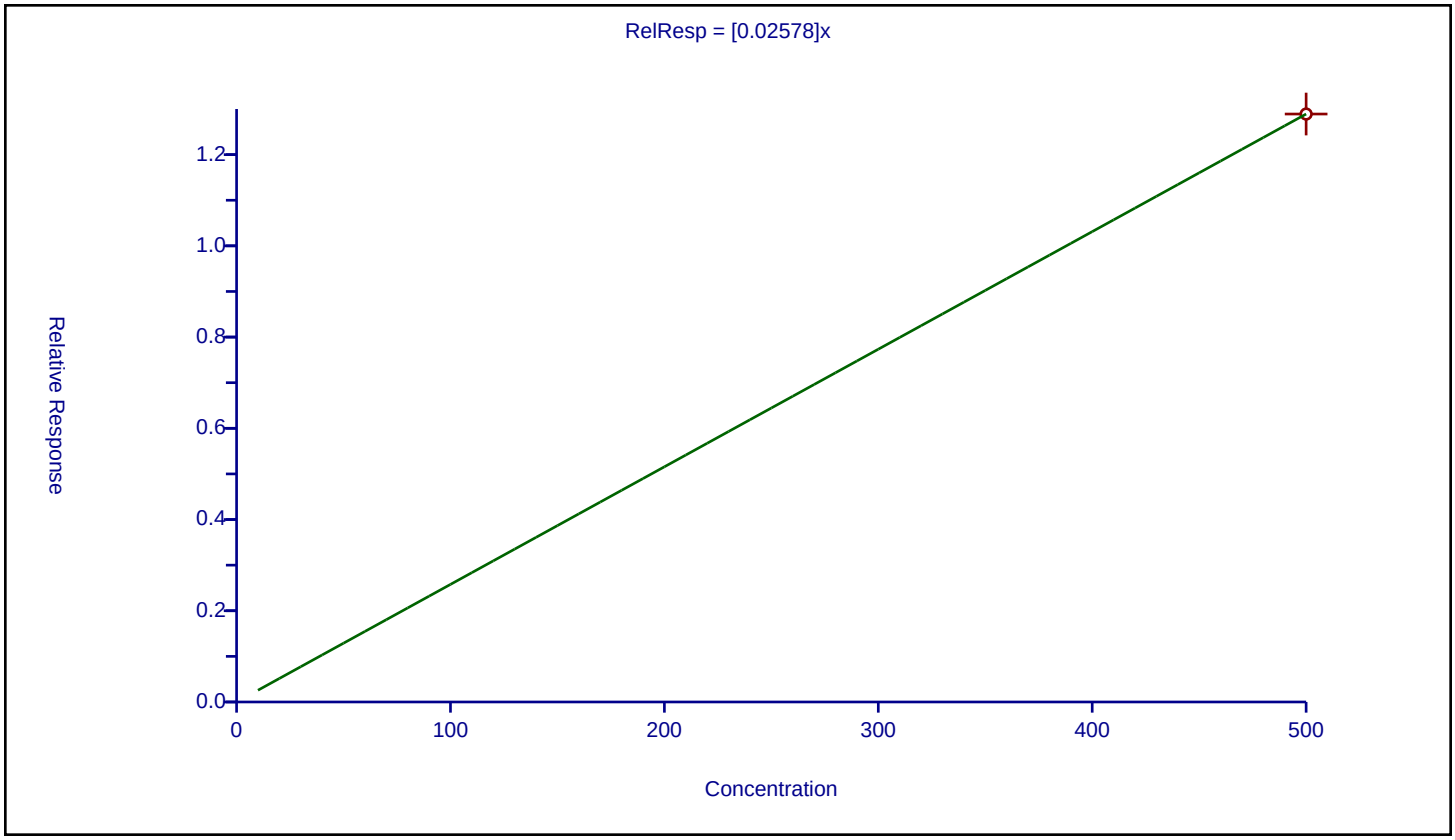
Curve Coefficients

Intercept:	0
Slope:	0.02578

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/5	500.0	12.889815	100.0	118635285.0	0.02578	Y



Calibration / PCB-1232 Peak 2

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

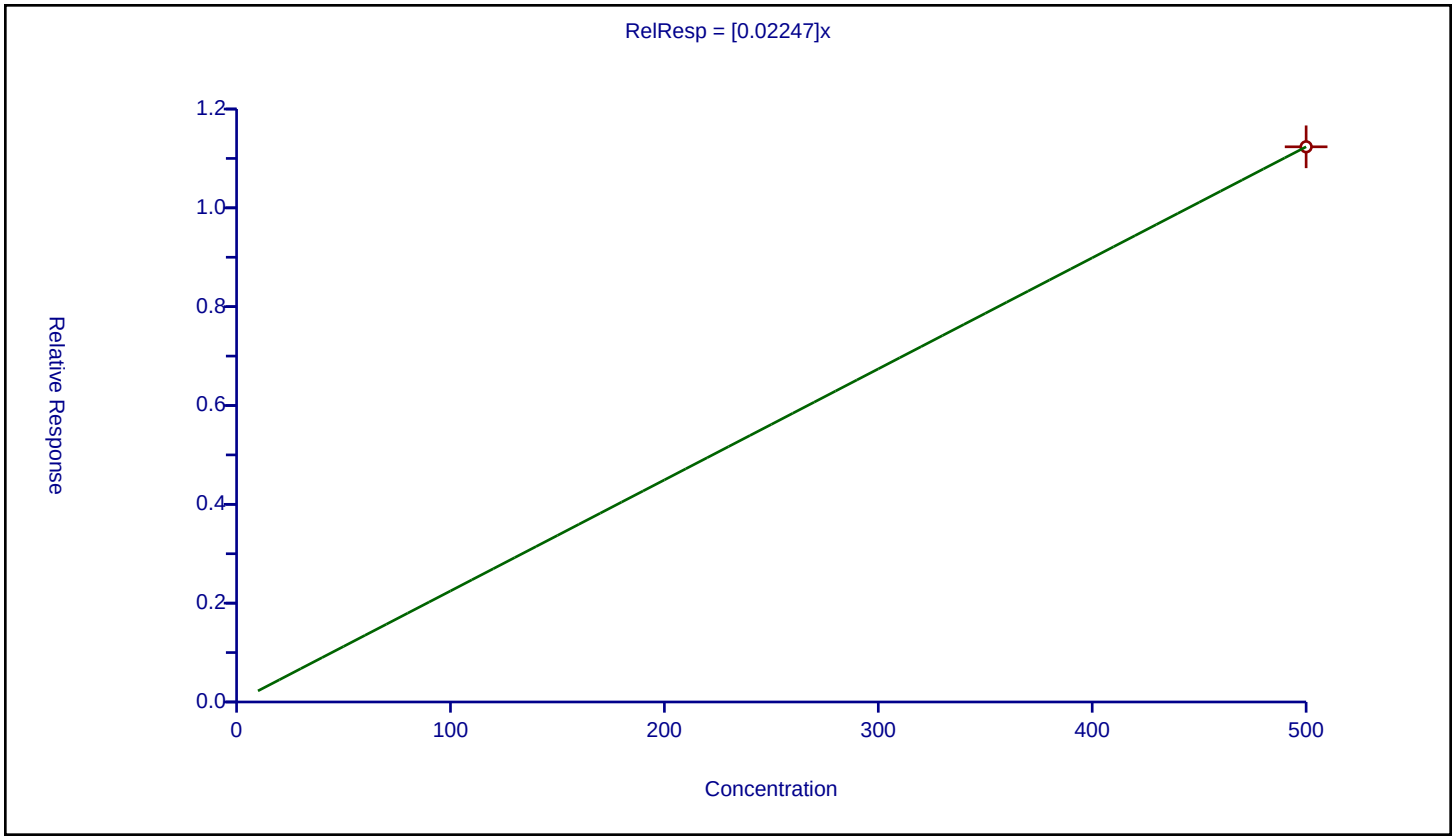
Curve Coefficients

Intercept:	0
Slope:	0.02247

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/5	500.0	11.23553	100.0	118635285.0	0.022471	Y



Calibration / PCB-1232 Peak 3

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

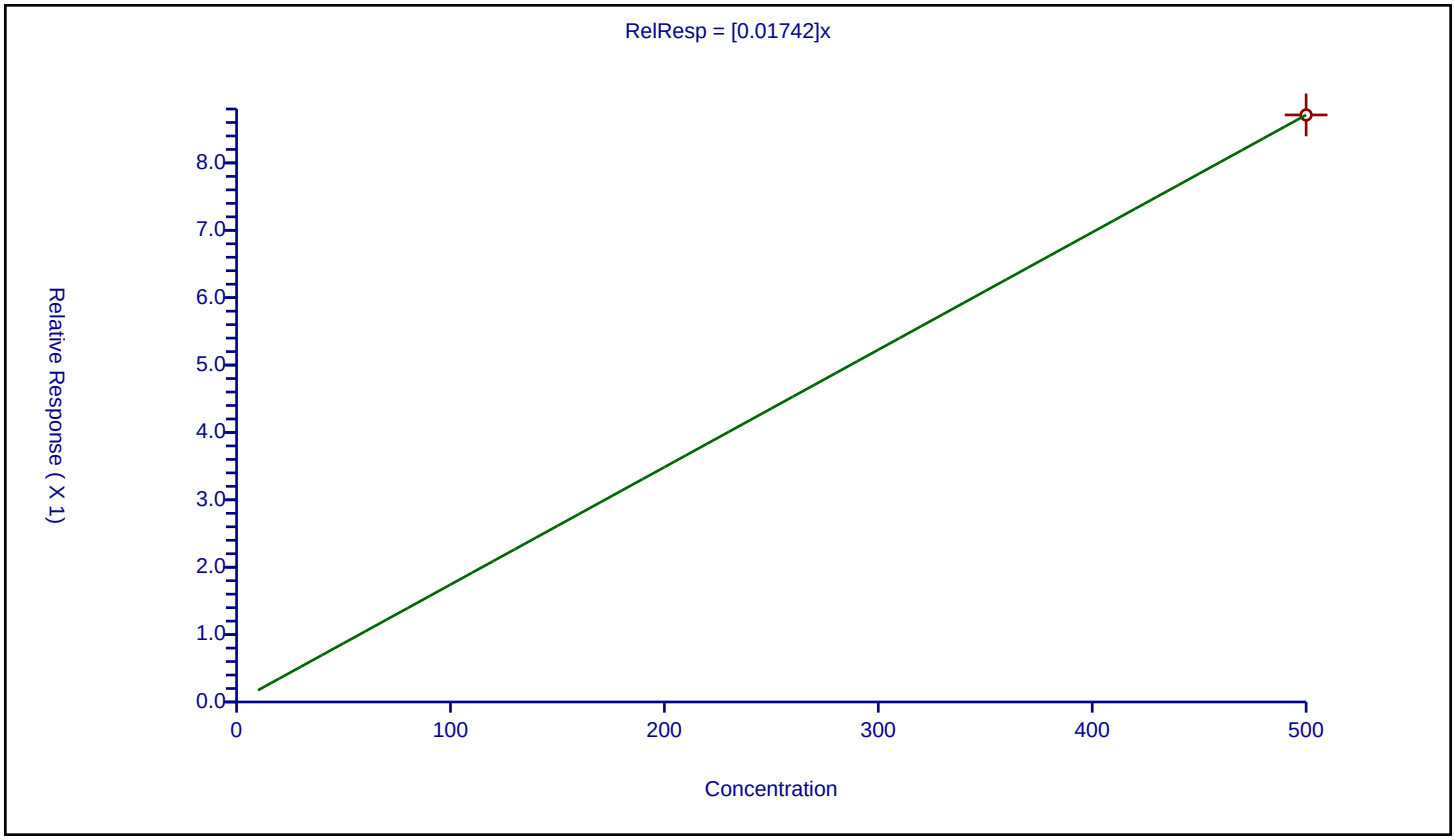
Curve Coefficients

Intercept:	0
Slope:	0.01742

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/5	500.0	8.712142	100.0	118635285.0	0.017424	Y



Calibration / PCB-1232 Peak 4

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

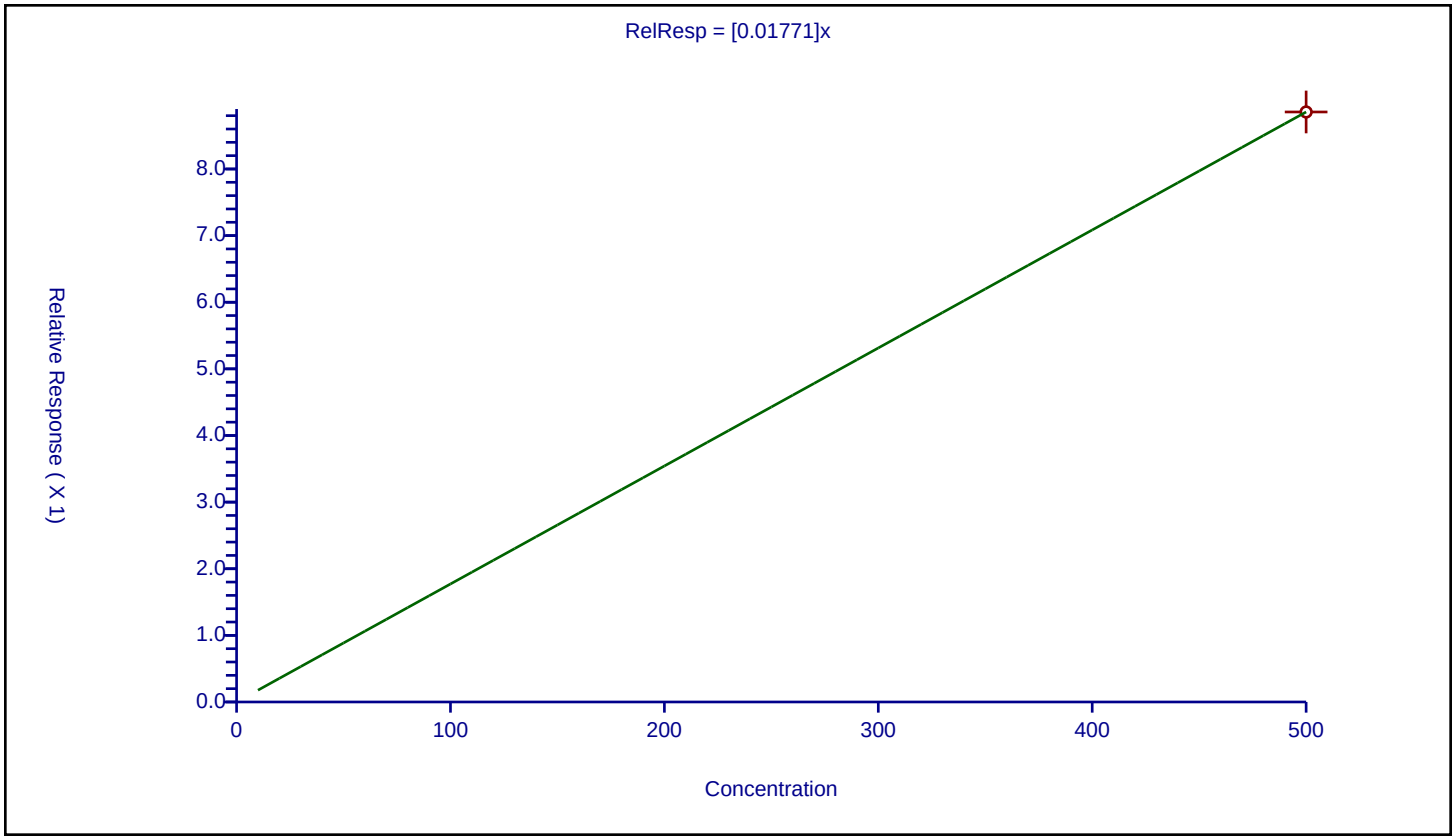
Curve Coefficients

Intercept:	0
Slope:	0.01771

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/5	500.0	8.855492	100.0	118635285.0	0.017711	Y



Calibration / PCB-1232 Peak 5

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

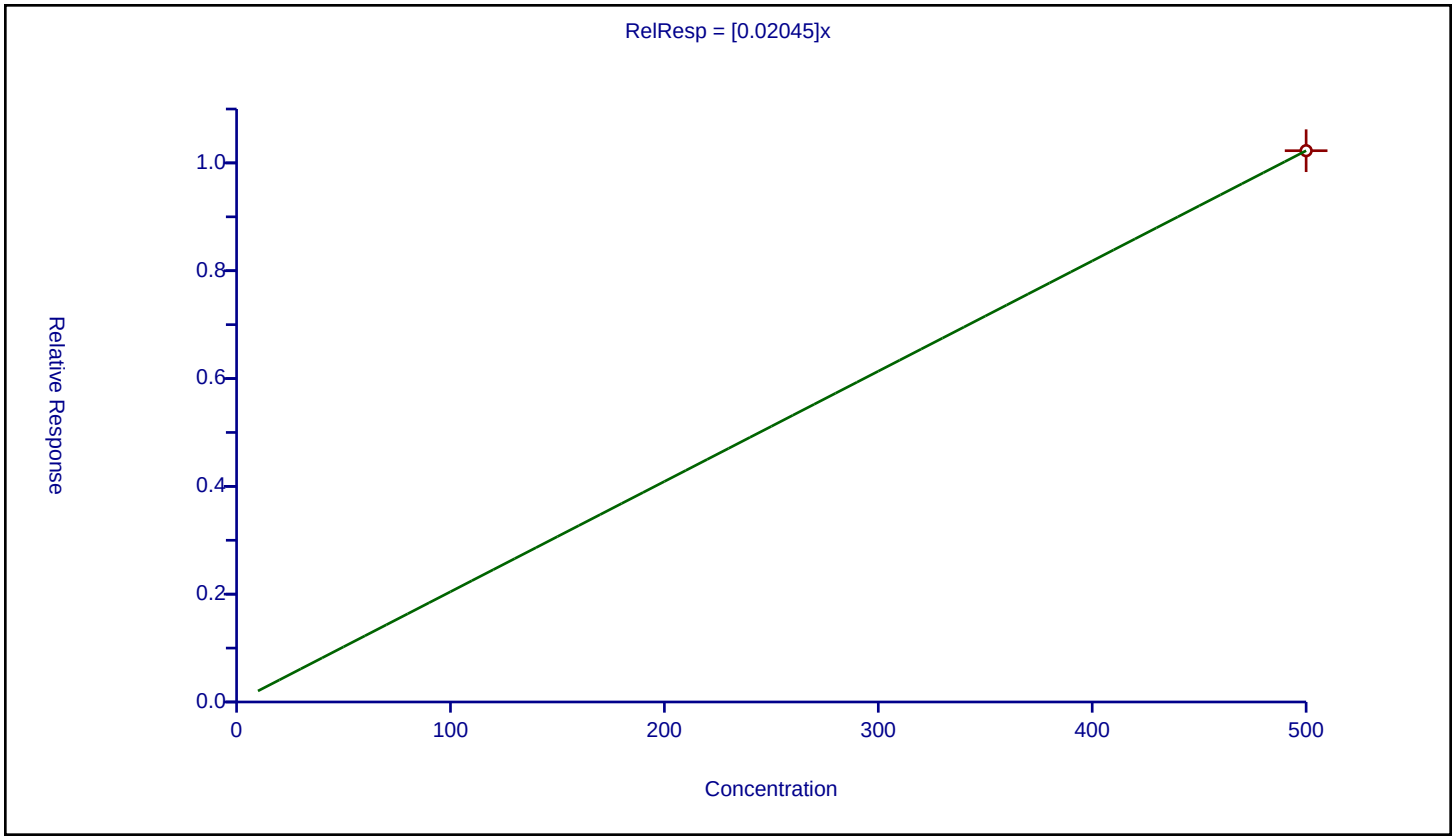
Curve Coefficients

Intercept:	0
Slope:	0.02045

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/5	500.0	10.226797	100.0	118635285.0	0.020454	Y



Calibration / PCB-1262 Peak 1

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

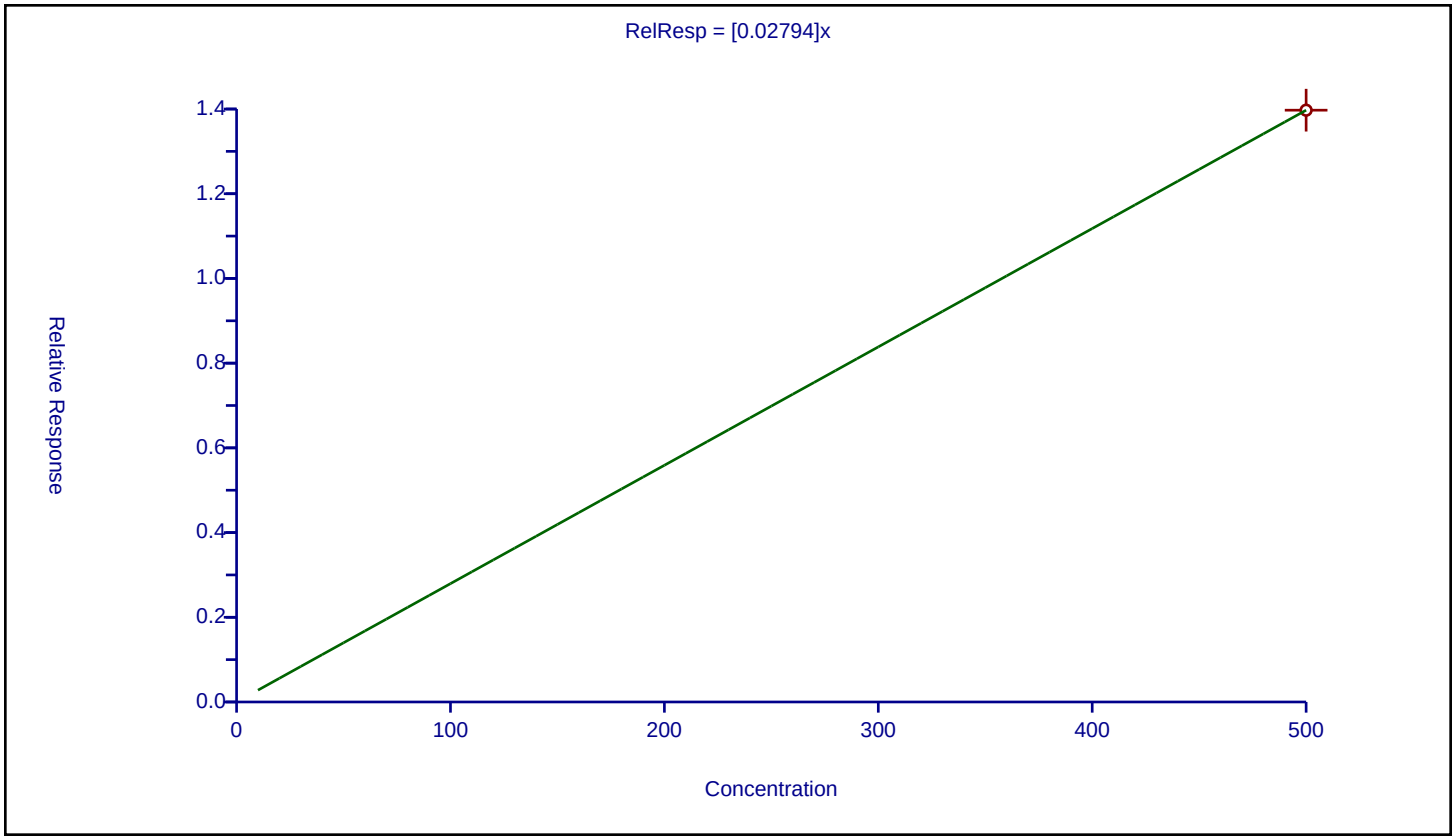
Curve Coefficients

Intercept:	0
Slope:	0.02794

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/5	500.0	13.972249	100.0	118635285.0	0.027944	Y



Calibration / PCB-1262 Peak 2

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

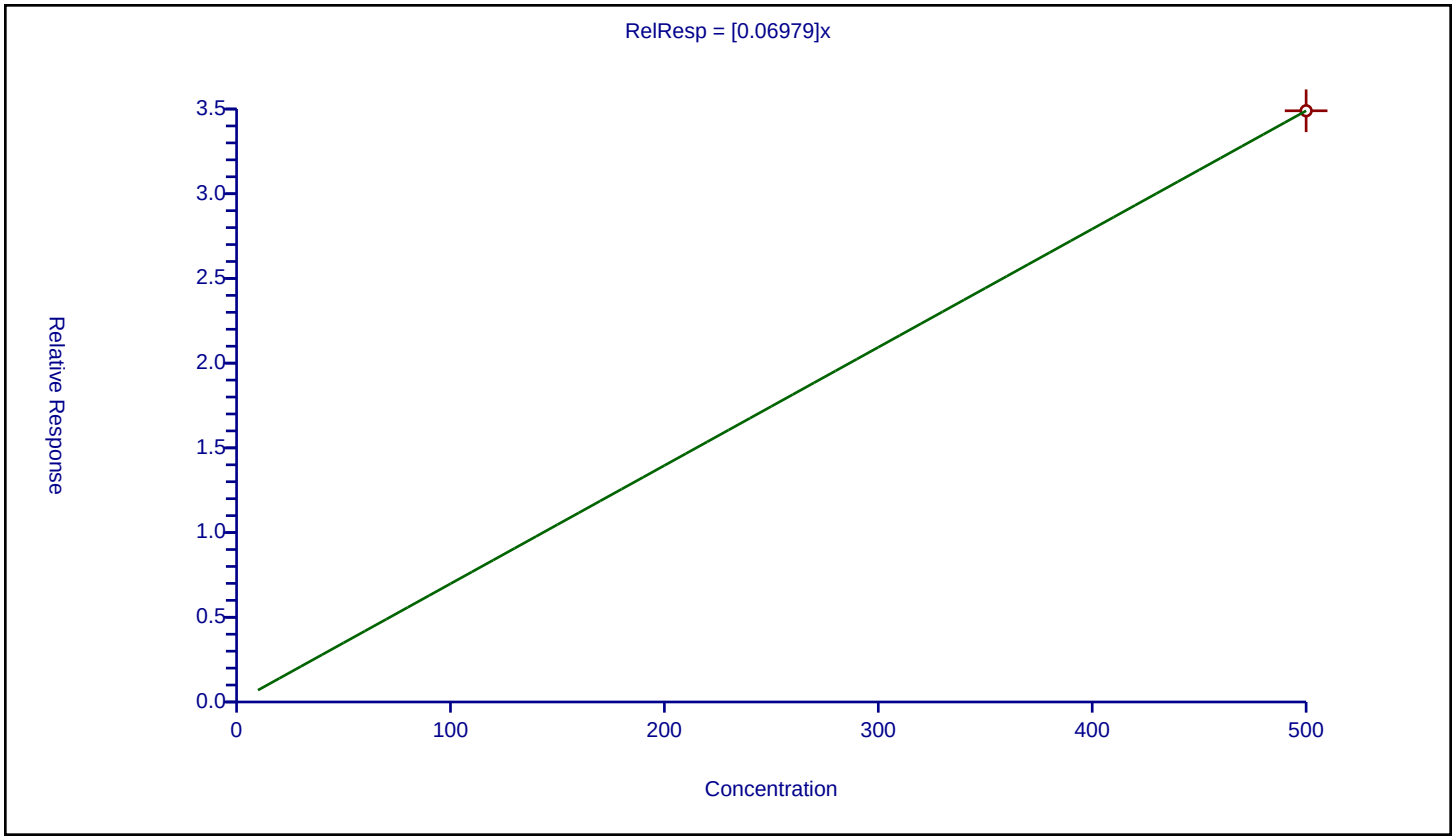
Curve Coefficients

Intercept:	0
Slope:	0.06979

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/5	500.0	34.896313	100.0	118635285.0	0.069793	Y



Calibration / PCB-1262 Peak 3

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

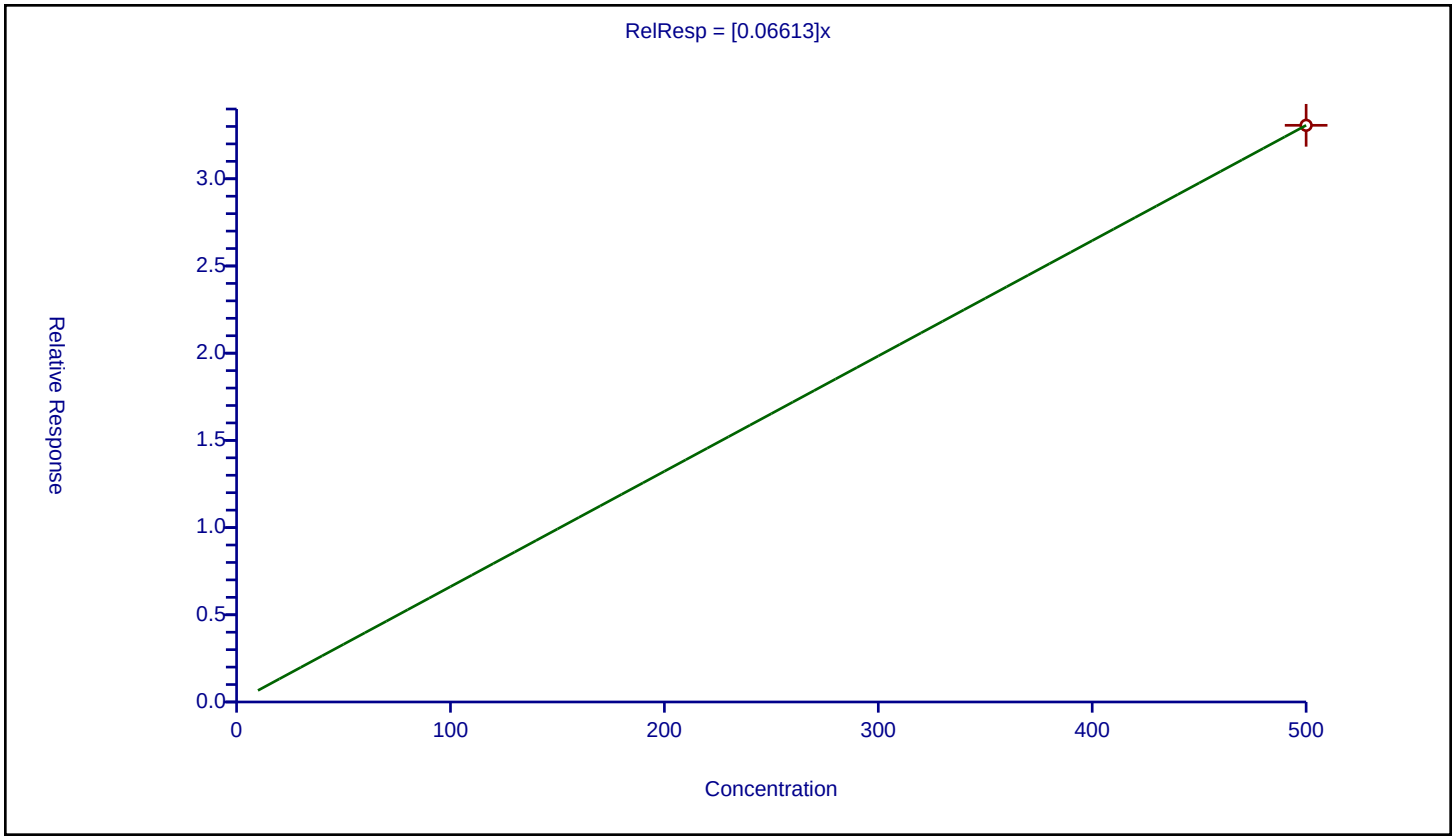
Curve Coefficients

Intercept:	0
Slope:	0.06613

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/5	500.0	33.065466	100.0	118635285.0	0.066131	Y



Calibration / PCB-1262 Peak 4

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

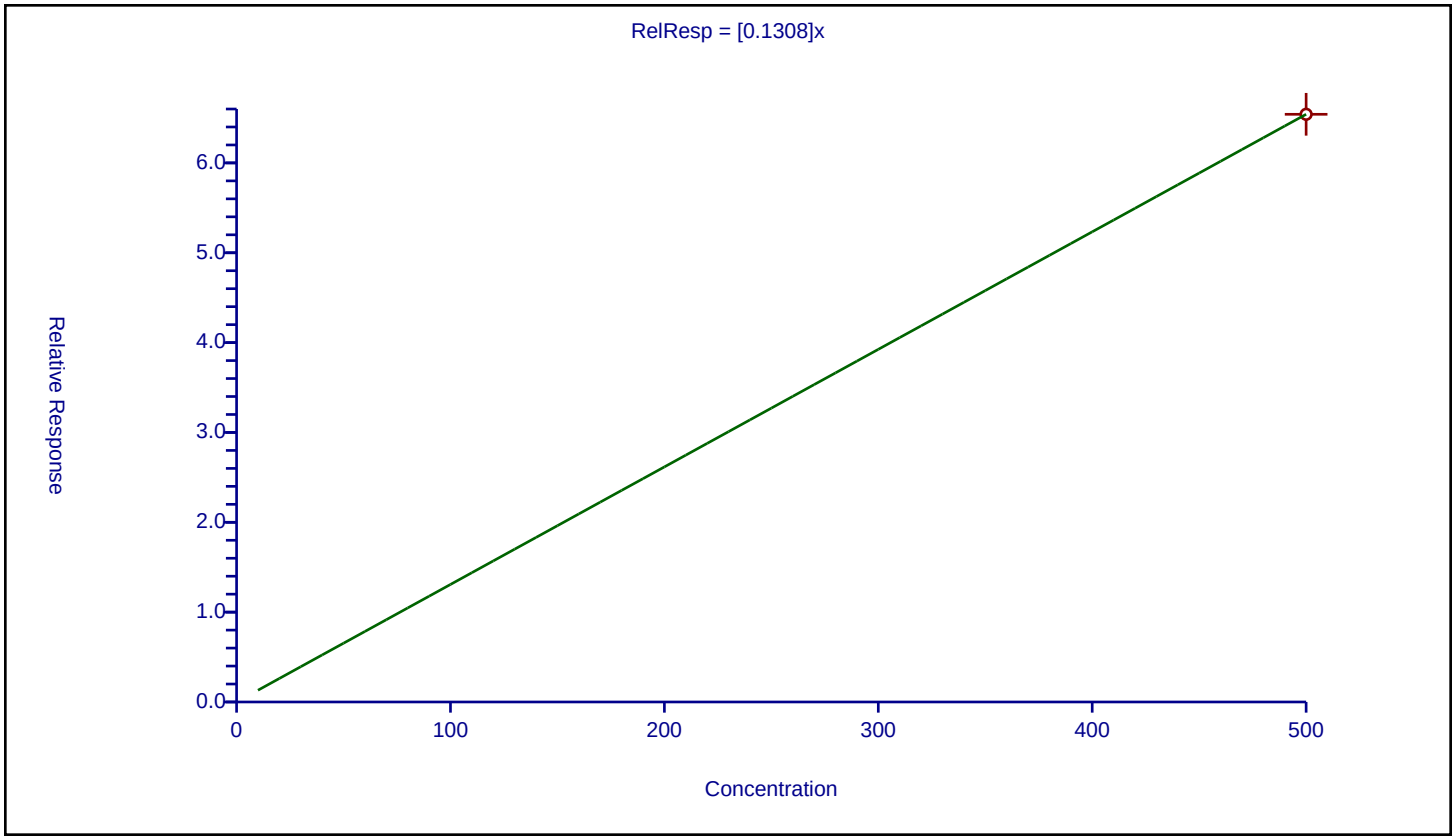
Curve Coefficients

Intercept:	0
Slope:	0.1308

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/5	500.0	65.41344	100.0	118635285.0	0.130827	Y



Calibration / PCB-1262 Peak 5

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

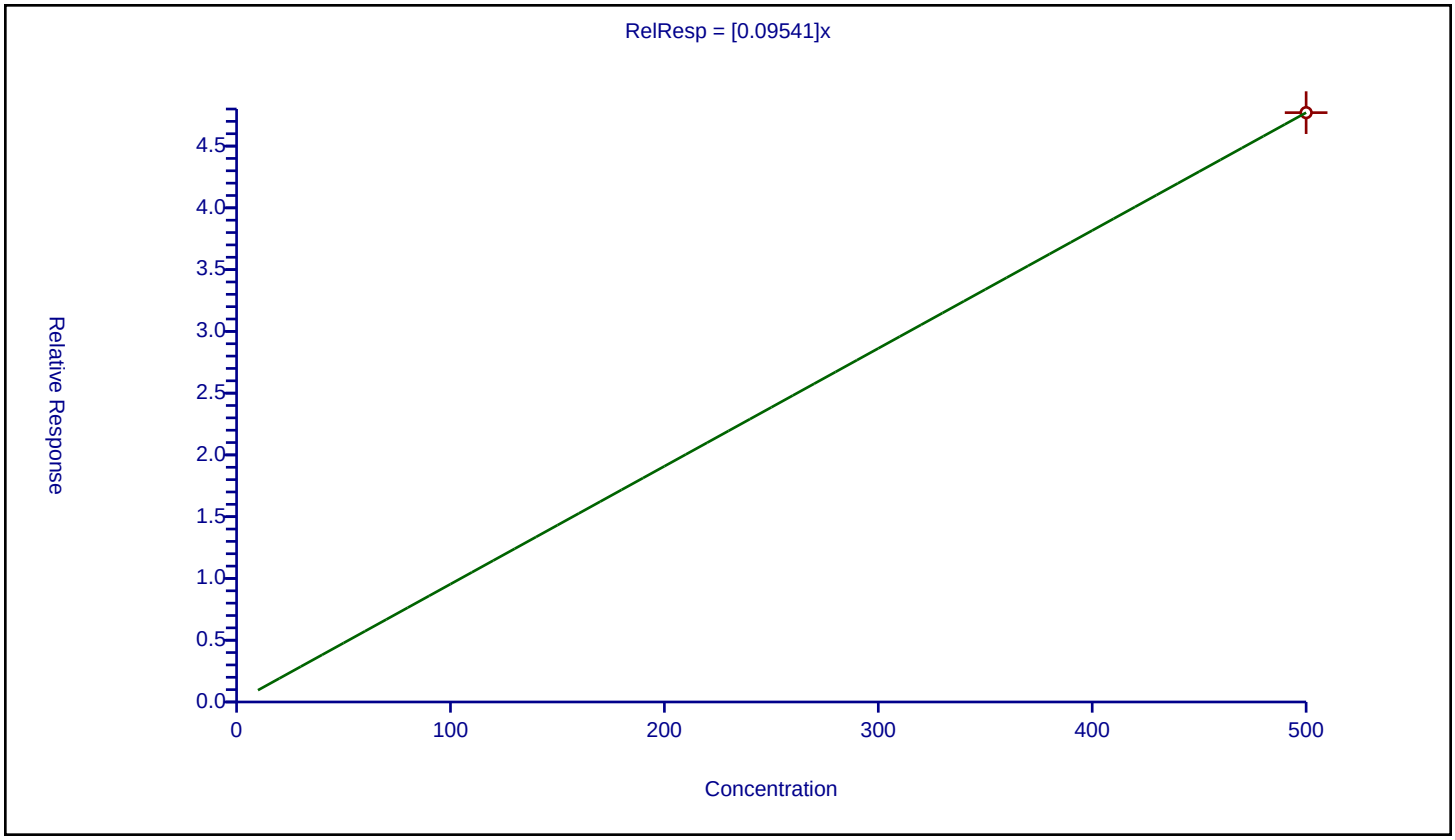
Curve Coefficients

Intercept:	0
Slope:	0.09541

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/5	500.0	47.706229	100.0	118635285.0	0.095412	Y



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-168095-2 Analy Batch No.: 591125

SDG No.:

Instrument ID: SGC_P3 GC Column: CLP1 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/25/2022 11:13 Calibration End Date: 10/25/2022 11:13 Calibration ID: 72286

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 280-591125/6	10250006.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1242 Peak 1	0.0189					Ave		0.0189						20.0			
PCB-1242 Peak 2	0.0373					Ave		0.0373						20.0			
PCB-1242 Peak 3	0.0769					Ave		0.0769						20.0			
PCB-1242 Peak 4	0.0337					Ave		0.0337						20.0			
PCB-1242 Peak 5	0.0550					Ave		0.0550						20.0			
PCB-1268 Peak 1	0.1624					Ave		0.1624						20.0			
PCB-1268 Peak 2	0.1692					Ave		0.1692						20.0			
PCB-1268 Peak 3	0.1292					Ave		0.1292						20.0			
PCB-1268 Peak 4	0.0615					Ave		0.0615						20.0			
PCB-1268 Peak 5	0.2751					Ave		0.2751						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-168095-2 Analy Batch No.: 591125

SDG No.:

Instrument ID: SGC_P3 GC Column: CLP1 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/25/2022 11:13 Calibration End Date: 10/25/2022 11:13 Calibration ID: 72286

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 280-591125/6	10250006.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1					LVL 1				
PCB-1242 Peak 1	BNB	Ave	12223744					500				
PCB-1242 Peak 2	BNB	Ave	24078397					500				
PCB-1242 Peak 3	BNB	Ave	49601327					500				
PCB-1242 Peak 4	BNB	Ave	21727418					500				
PCB-1242 Peak 5	BNB	Ave	35513762					500				
PCB-1268 Peak 1	BNB	Ave	104789573					500				
PCB-1268 Peak 2	BNB	Ave	109228436					500				
PCB-1268 Peak 3	BNB	Ave	83362368					500				
PCB-1268 Peak 4	BNB	Ave	39713478					500				
PCB-1268 Peak 5	BNB	Ave	177547384					500				

Curve Type Legend
Ave = Average ISTD

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250006.D
Lims ID: STD5 A4268
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 25-Oct-2022 11:13:10 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: STD5 A4268
Misc. Info.: 280-0115461-006
Operator ID: SMP Instrument ID: SGC_P3
Sublist: chrom-PCB_P3*sub5

Method: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\PCB_P3.m
Limit Group: GCSV - 8082A - IS
Last Update: 25-Oct-2022 16:41:39 Calib Date: 25-Oct-2022 11:31:41
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
Process Host: CTX1669

First Level Reviewer: USP3 Date: 25-Oct-2022 16:37:37

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.194	3.194	0.000	129075343	100.0	100.0	
2	2.947	2.947	0.000	122541718	100.0	100.0	
						RPD = 0.00	
10 PCB-1242							
1	4.334	4.334	0.000	12223744	500.0	500.0	
1	4.677	4.677	0.000	24078397	500.0	500.0	
1	5.127	5.127	0.000	49601327	500.0	500.0	
1	5.287	5.287	0.000	21727418	500.0	500.0	
1	6.184	6.184	0.000	35513762	500.0	500.0	
		Average of Peak Amounts =				500.0	
2	4.280	4.280	0.000	12224746	500.0	500.0	
2	4.653	4.653	0.000	21281087	500.0	500.0	
2	5.093	5.093	0.000	29394533	500.0	500.0	
2	5.223	5.223	0.000	20610577	500.0	500.0	
2	5.840	5.840	0.000	19037479	500.0	500.0	
		Average of Peak Amounts =				500.0	
						RPD = 0.00	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
13 PCB-1268							
1	9.084	9.084	0.000	104789573	500.0	500.0	
1	9.137	9.137	0.000	109228436	500.0	500.0	
1	9.394	9.394	0.000	83362368	500.0	500.0	
1	9.864	9.864	0.000	39713478	500.0	500.0	
1	10.198	10.198	0.000	177547384	500.0	500.0	
		Average of Peak Amounts =				500.0	
2	9.167	9.167	0.000	102507972	500.0	500.0	
2	9.227	9.227	0.000	102014846	500.0	500.0	
2	9.567	9.567	0.000	79373225	500.0	500.0	
2	9.937	9.937	0.000	40340911	500.0	500.0	
2	10.307	10.307	0.000	242524828	500.0	500.0	
		Average of Peak Amounts =				500.0	
						RPD = 0.00	
S 8 Polychlorinated biphenyls, Total							
1						1000.0	
2						1000.0	
						RPD = 0.00	

QC Flag Legend

Processing Flags

Reagents:

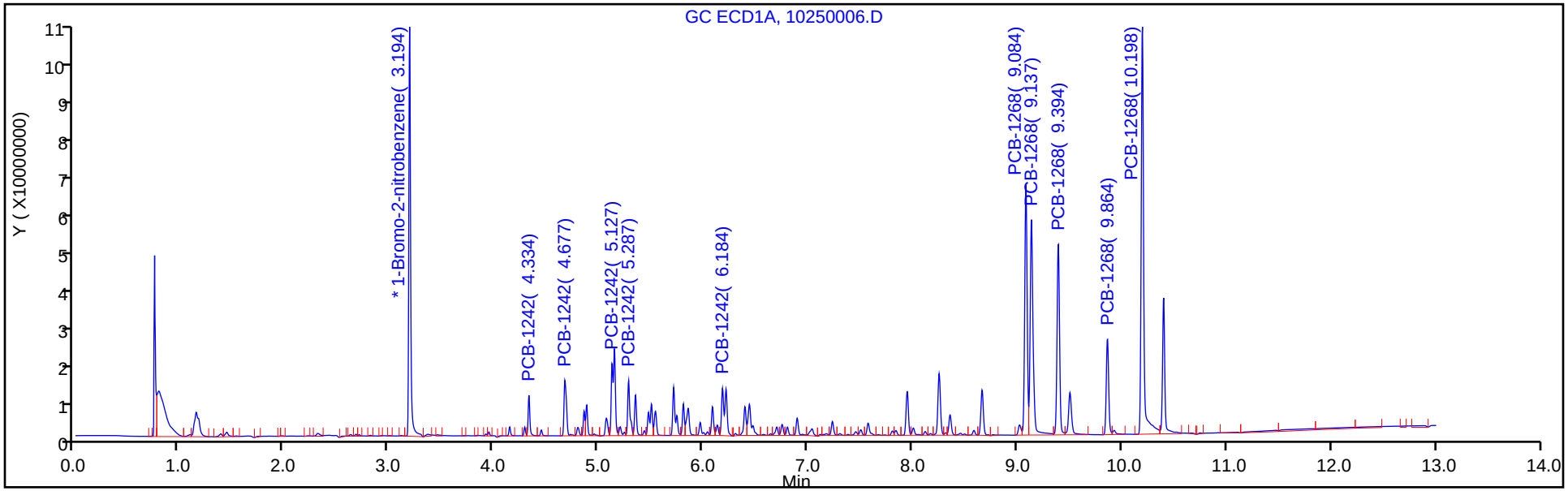
AR_4268_L7_00027	Amount Added: 100.00	Units: uL	
BNB IS_00023	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 25-Oct-2022 16:41:39 Chrom Revision: 2.3 28-Sep-2022 12:57:42

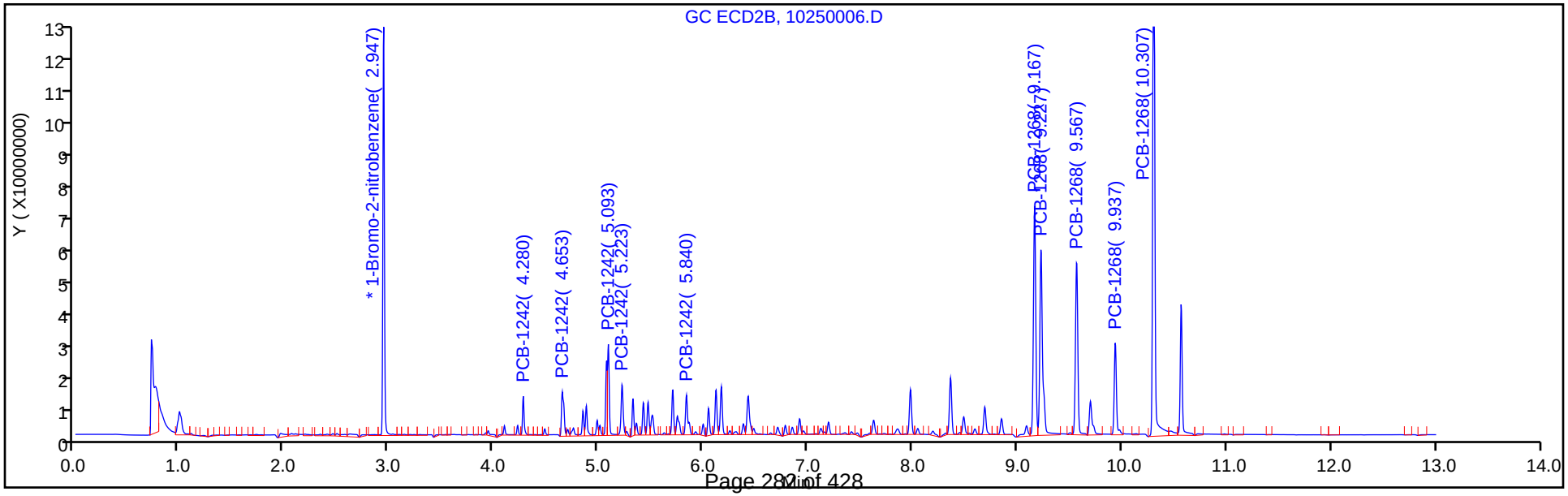
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250006.D				
Injection Date:	25-Oct-2022 11:13:10	Instrument ID:	SGC_P3	Operator ID:	SMP
Lims ID:	STD5 A4268			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Calibration / PCB-1242 Peak 1

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

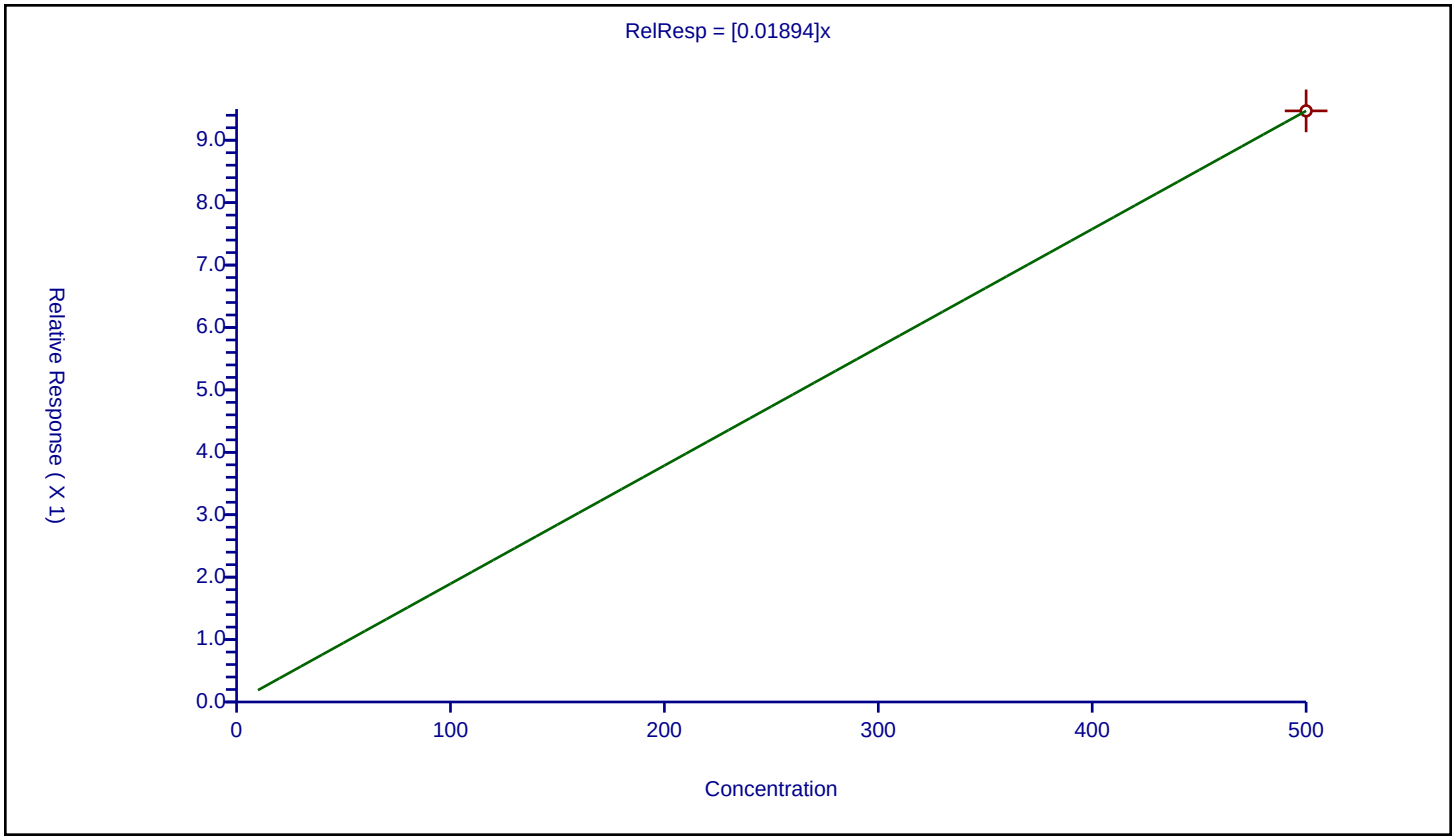
Curve Coefficients

Intercept:	0
Slope:	0.01894

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/6	500.0	9.470239	100.0	129075343.0	0.01894	Y



Calibration / PCB-1242 Peak 2

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

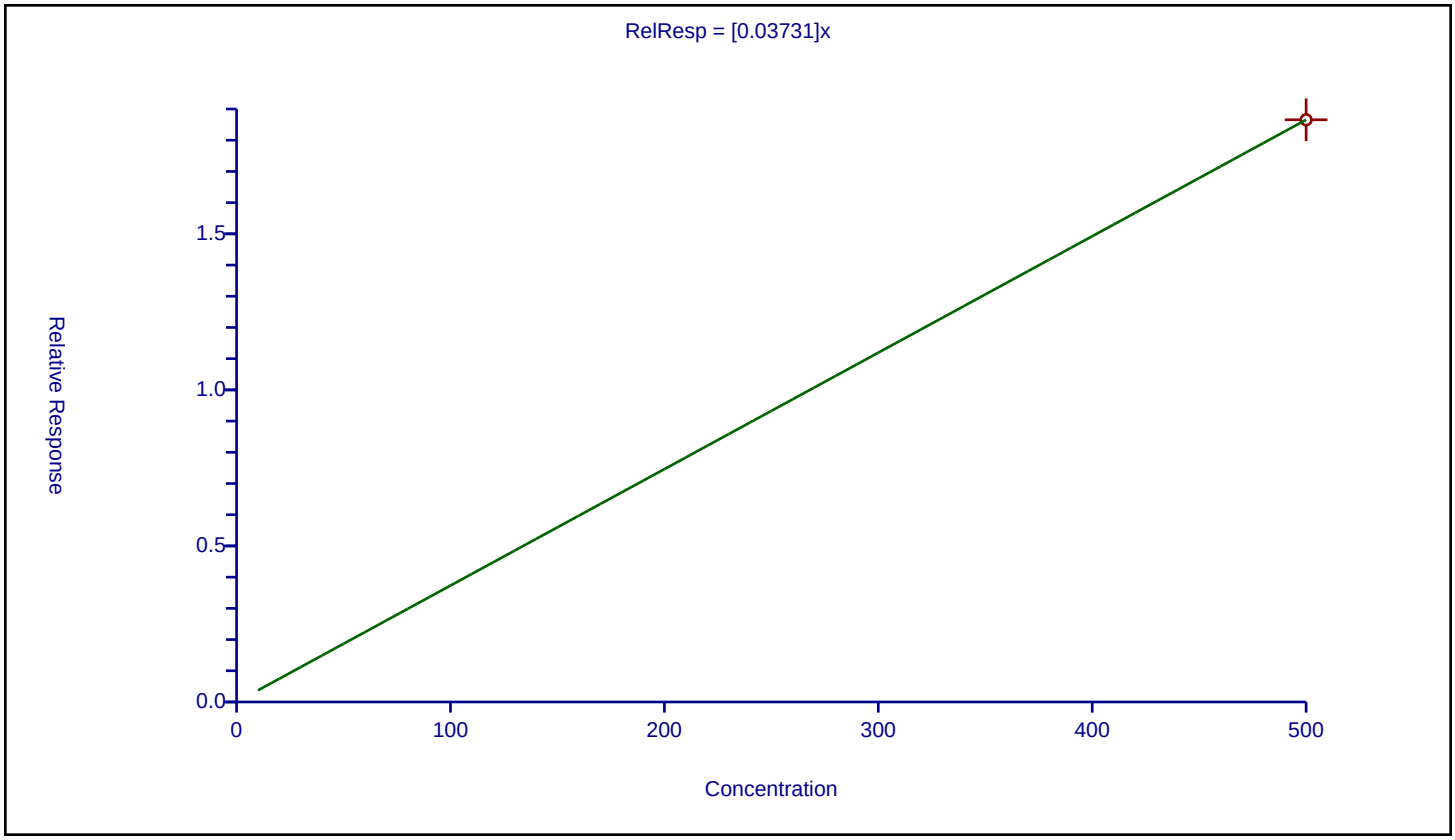
Curve Coefficients

Intercept:	0
Slope:	0.03731

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/6	500.0	18.654529	100.0	129075343.0	0.037309	Y



Calibration / PCB-1242 Peak 3

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

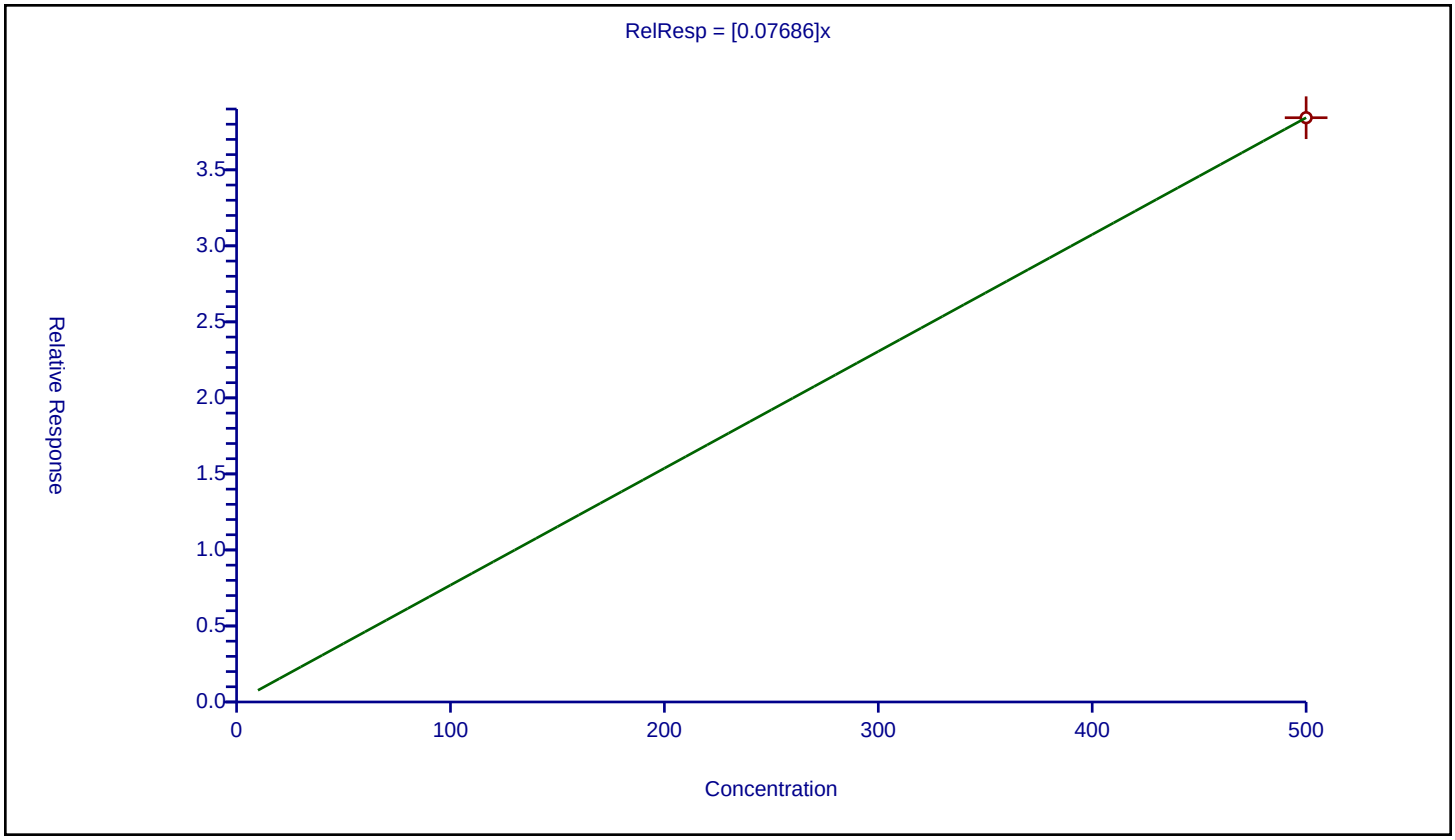
Curve Coefficients

Intercept:	0
Slope:	0.07686

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/6	500.0	38.428197	100.0	129075343.0	0.076856	Y



Calibration / PCB-1242 Peak 4

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

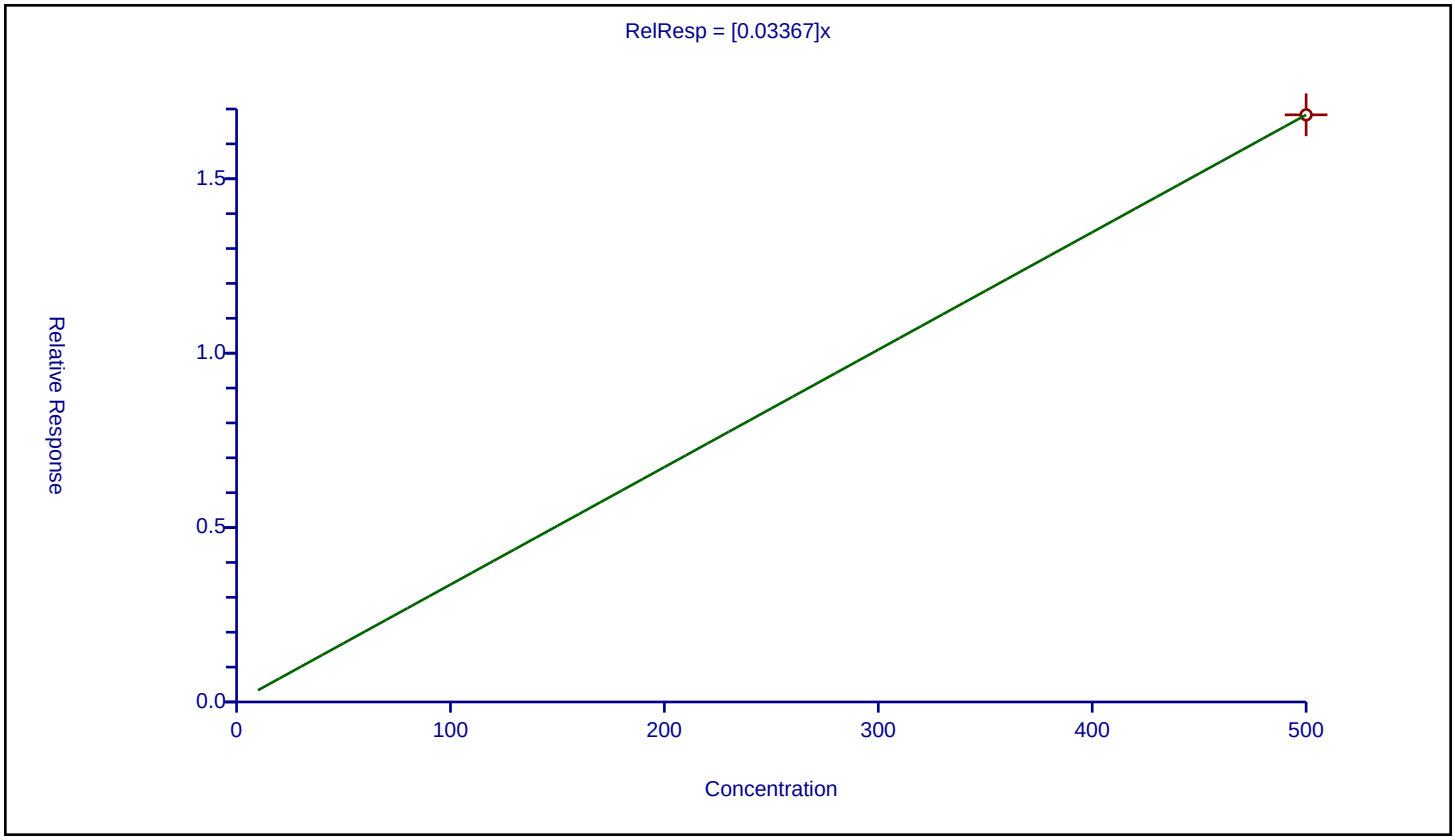
Curve Coefficients

Intercept:	0
Slope:	0.03367

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/6	500.0	16.833128	100.0	129075343.0	0.033666	Y



Calibration / PCB-1242 Peak 5

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

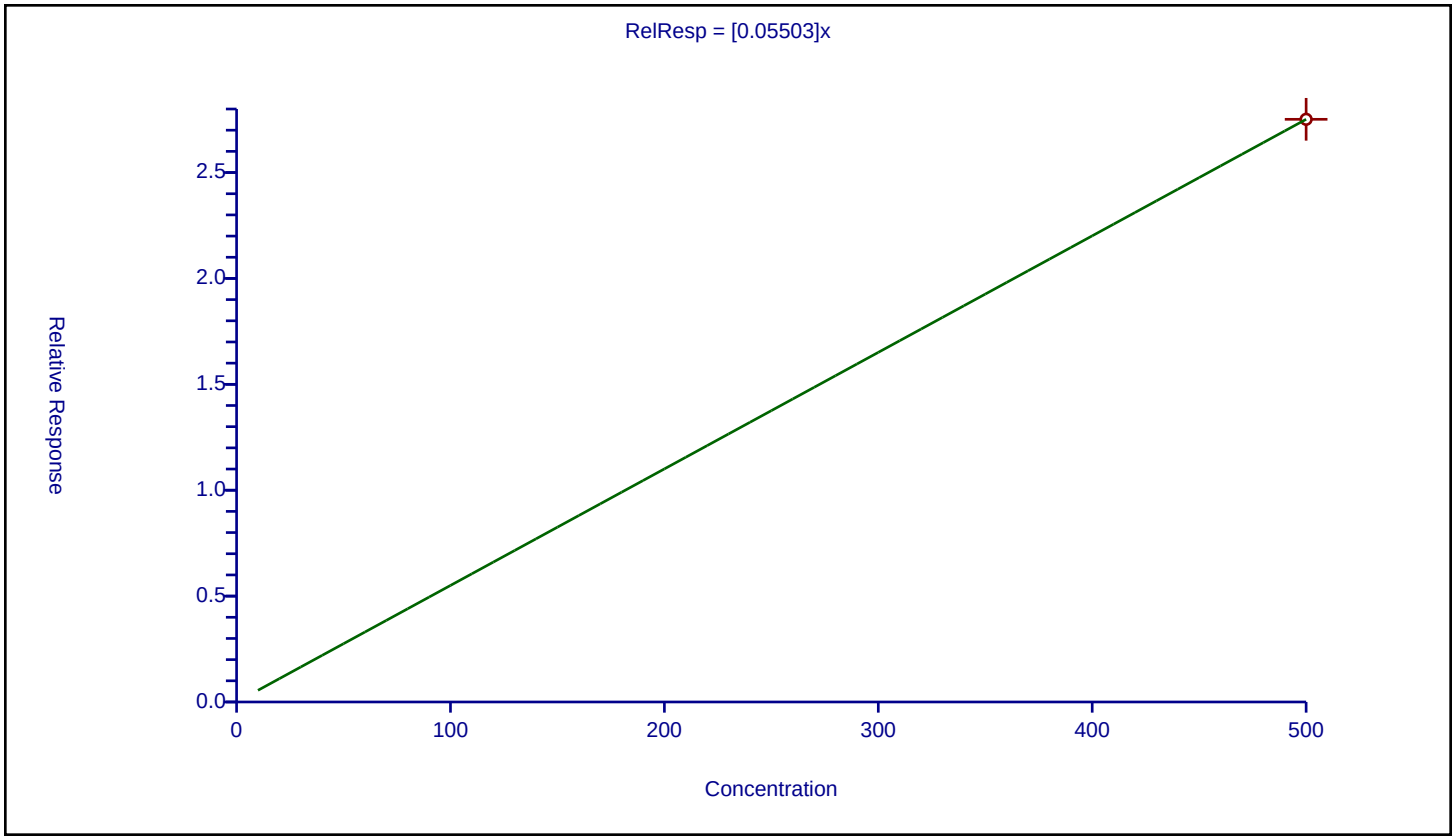
Curve Coefficients

Intercept:	0
Slope:	0.05503

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/6	500.0	27.513978	100.0	129075343.0	0.055028	Y



Calibration / PCB-1268 Peak 1

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

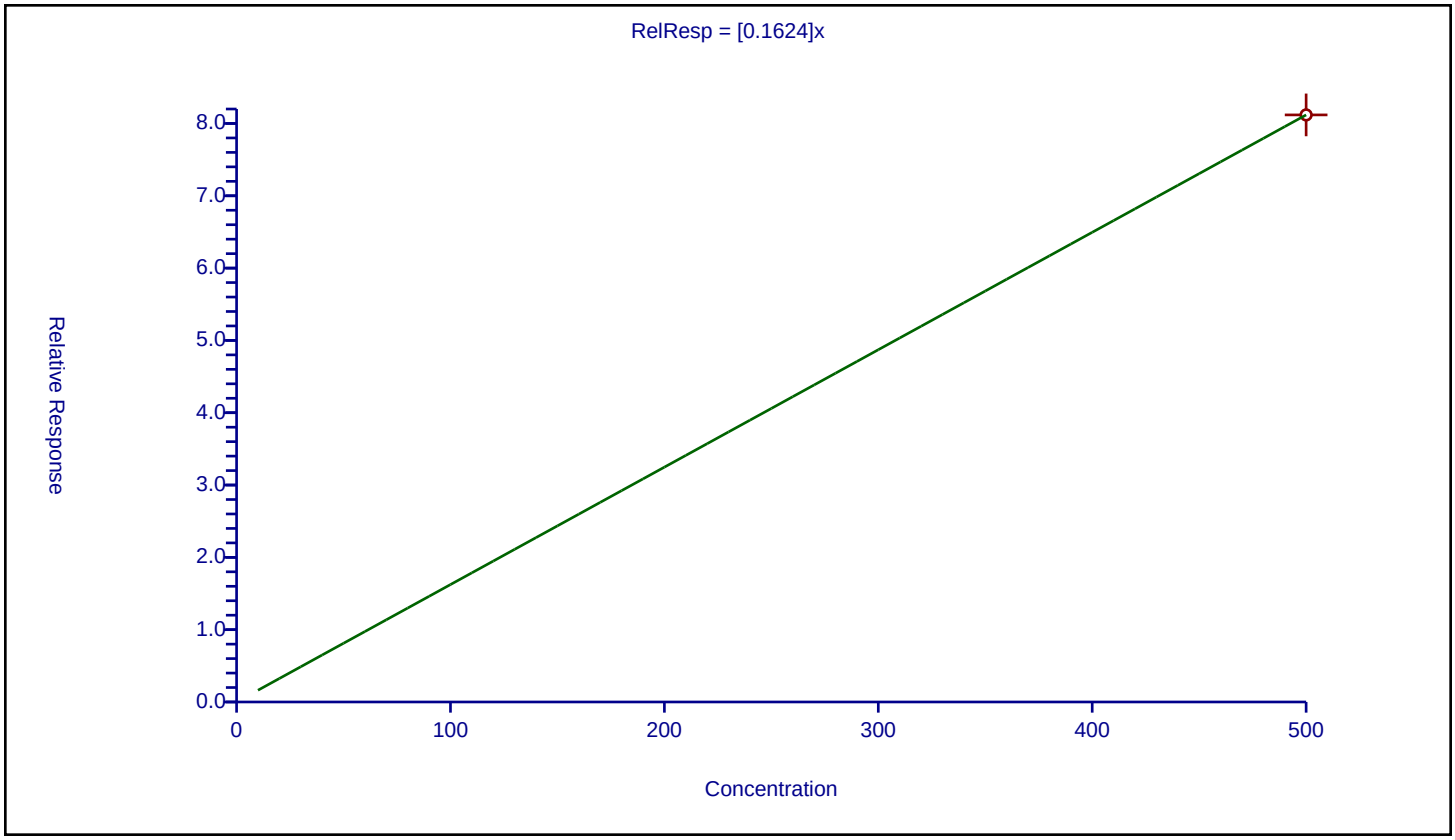
Curve Coefficients

Intercept:	0
Slope:	0.1624

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/6	500.0	81.184811	100.0	129075343.0	0.16237	Y



Calibration / PCB-1268 Peak 2

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

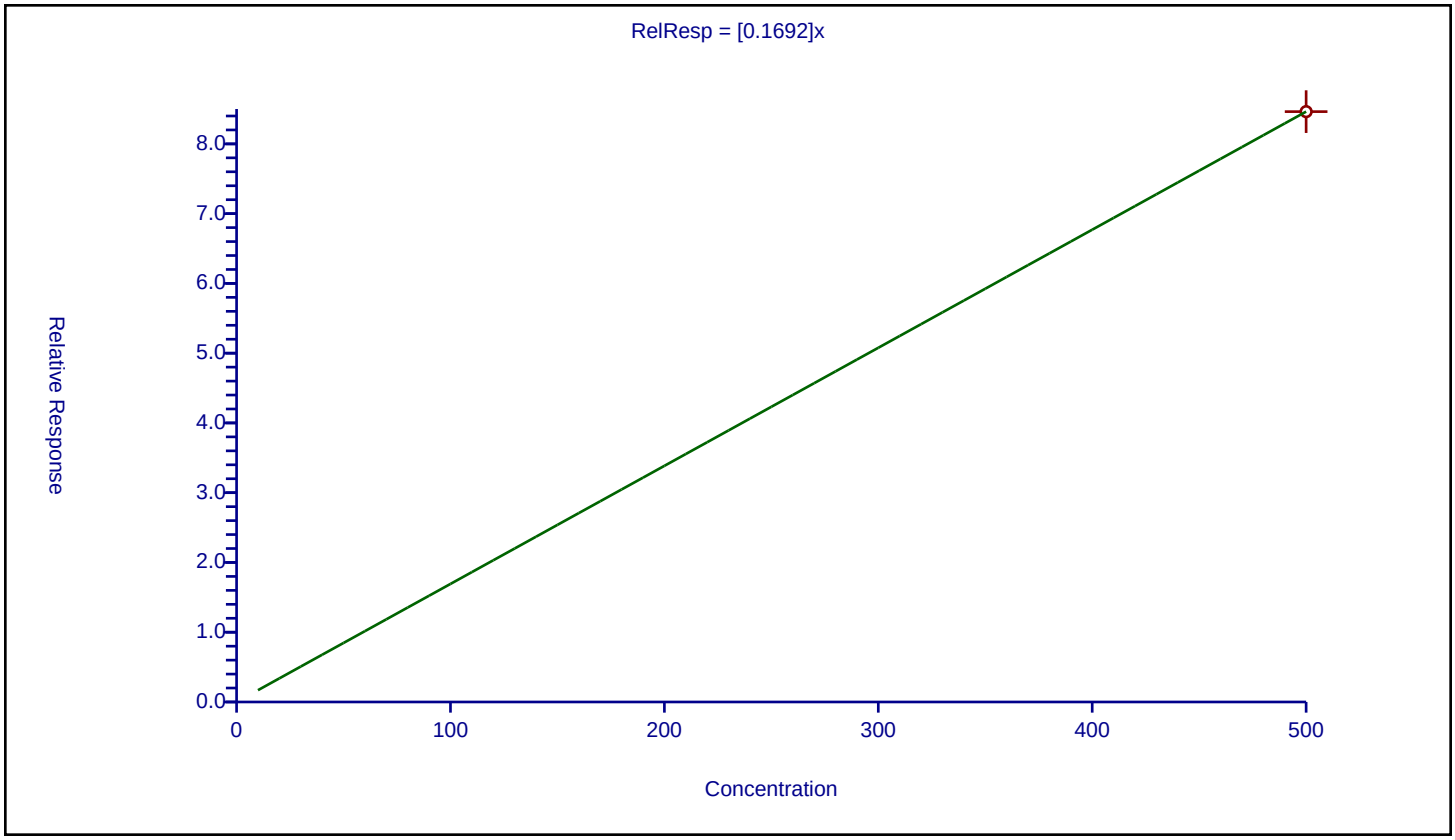
Curve Coefficients

Intercept:	0
Slope:	0.1692

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/6	500.0	84.623781	100.0	129075343.0	0.169248	Y



Calibration / PCB-1268 Peak 3

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

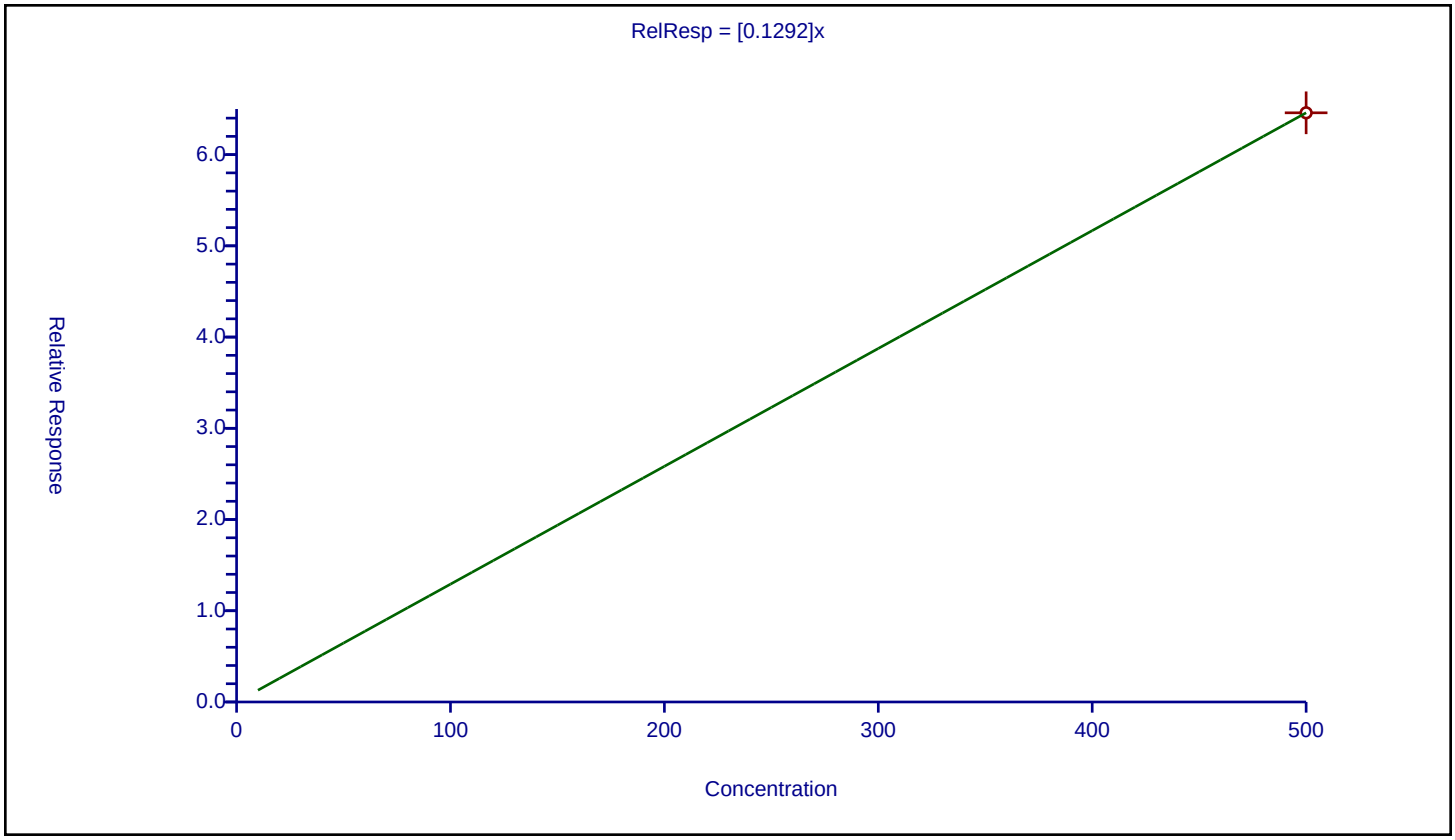
Curve Coefficients

Intercept:	0
Slope:	0.1292

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/6	500.0	64.58427	100.0	129075343.0	0.129169	Y



Calibration / PCB-1268 Peak 4

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

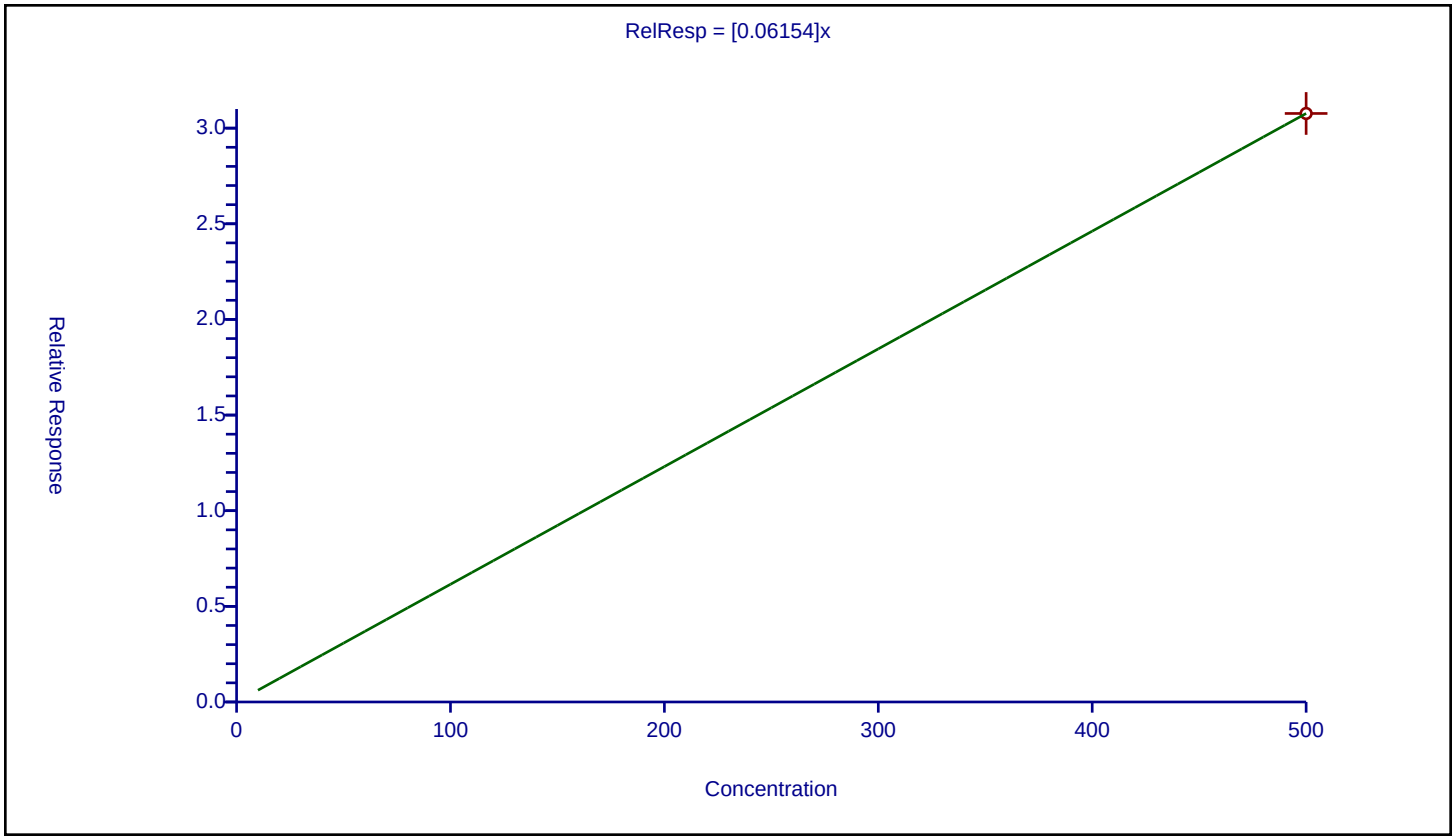
Curve Coefficients

Intercept:	0
Slope:	0.06154

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	1.00

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/6	500.0	30.767672	100.0	129075343.0	0.061535	Y



Calibration / PCB-1268 Peak 5

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

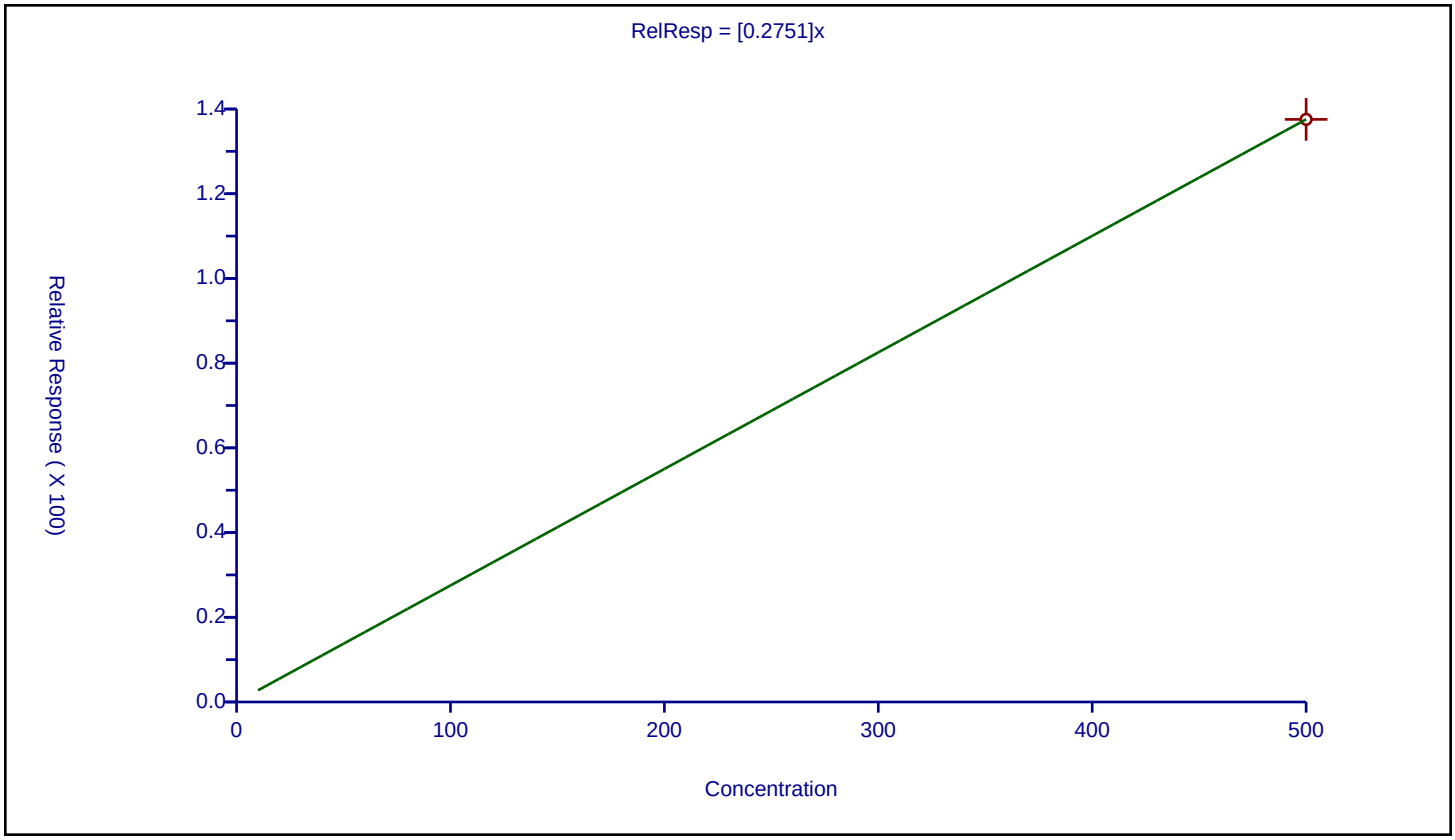
Curve Coefficients

Intercept:	0
Slope:	0.2751

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/6	500.0	137.553292	100.0	129075343.0	0.275107	Y



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-168095-2 Analy Batch No.: 591125

SDG No.:

Instrument ID: SGC_P3 GC Column: CLP2 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/25/2022 11:13 Calibration End Date: 10/25/2022 11:13 Calibration ID: 72287

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 280-591125/6	10250006.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1242 Peak 1	0.0200					Ave		0.0200						20.0			
PCB-1242 Peak 2	0.0347					Ave		0.0347						20.0			
PCB-1242 Peak 3	0.0480					Ave		0.0480						20.0			
PCB-1242 Peak 4	0.0336					Ave		0.0336						20.0			
PCB-1242 Peak 5	0.0311					Ave		0.0311						20.0			
PCB-1268 Peak 1	0.1673					Ave		0.1673						20.0			
PCB-1268 Peak 2	0.1665					Ave		0.1665						20.0			
PCB-1268 Peak 3	0.1295					Ave		0.1295						20.0			
PCB-1268 Peak 4	0.0658					Ave		0.0658						20.0			
PCB-1268 Peak 5	0.3958					Ave		0.3958						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-168095-2 Analy Batch No.: 591125

SDG No.:

Instrument ID: SGC_P3 GC Column: CLP2 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/25/2022 11:13 Calibration End Date: 10/25/2022 11:13 Calibration ID: 72287

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 280-591125/6	10250006.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1					LVL 1				
PCB-1242 Peak 1	BNB	Ave	12224746					500				
PCB-1242 Peak 2	BNB	Ave	21281087					500				
PCB-1242 Peak 3	BNB	Ave	29394533					500				
PCB-1242 Peak 4	BNB	Ave	20610577					500				
PCB-1242 Peak 5	BNB	Ave	19037479					500				
PCB-1268 Peak 1	BNB	Ave	102507972					500				
PCB-1268 Peak 2	BNB	Ave	102014846					500				
PCB-1268 Peak 3	BNB	Ave	79373225					500				
PCB-1268 Peak 4	BNB	Ave	40340911					500				
PCB-1268 Peak 5	BNB	Ave	242524828					500				

Curve Type Legend
Ave = Average ISTD

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250006.D
Lims ID: STD5 A4268
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 25-Oct-2022 11:13:10 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: STD5 A4268
Misc. Info.: 280-0115461-006
Operator ID: SMP Instrument ID: SGC_P3
Sublist: chrom-PCB_P3*sub5

Method: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\PCB_P3.m
Limit Group: GCSV - 8082A - IS
Last Update: 25-Oct-2022 16:41:39 Calib Date: 25-Oct-2022 11:31:41
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
Process Host: CTX1669

First Level Reviewer: USP3 Date: 25-Oct-2022 16:37:37

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.194	3.194	0.000	129075343	100.0	100.0	
2	2.947	2.947	0.000	122541718	100.0	100.0	
						RPD = 0.00	
10 PCB-1242							
1	4.334	4.334	0.000	12223744	500.0	500.0	
1	4.677	4.677	0.000	24078397	500.0	500.0	
1	5.127	5.127	0.000	49601327	500.0	500.0	
1	5.287	5.287	0.000	21727418	500.0	500.0	
1	6.184	6.184	0.000	35513762	500.0	500.0	
		Average of Peak Amounts =				500.0	
2	4.280	4.280	0.000	12224746	500.0	500.0	
2	4.653	4.653	0.000	21281087	500.0	500.0	
2	5.093	5.093	0.000	29394533	500.0	500.0	
2	5.223	5.223	0.000	20610577	500.0	500.0	
2	5.840	5.840	0.000	19037479	500.0	500.0	
		Average of Peak Amounts =				500.0	
						RPD = 0.00	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
13 PCB-1268							
1	9.084	9.084	0.000	104789573	500.0	500.0	
1	9.137	9.137	0.000	109228436	500.0	500.0	
1	9.394	9.394	0.000	83362368	500.0	500.0	
1	9.864	9.864	0.000	39713478	500.0	500.0	
1	10.198	10.198	0.000	177547384	500.0	500.0	
		Average of Peak Amounts =				500.0	
2	9.167	9.167	0.000	102507972	500.0	500.0	
2	9.227	9.227	0.000	102014846	500.0	500.0	
2	9.567	9.567	0.000	79373225	500.0	500.0	
2	9.937	9.937	0.000	40340911	500.0	500.0	
2	10.307	10.307	0.000	242524828	500.0	500.0	
		Average of Peak Amounts =				500.0	
						RPD = 0.00	
S 8 Polychlorinated biphenyls, Total							
1						1000.0	
2						1000.0	
						RPD = 0.00	

QC Flag Legend

Processing Flags

Reagents:

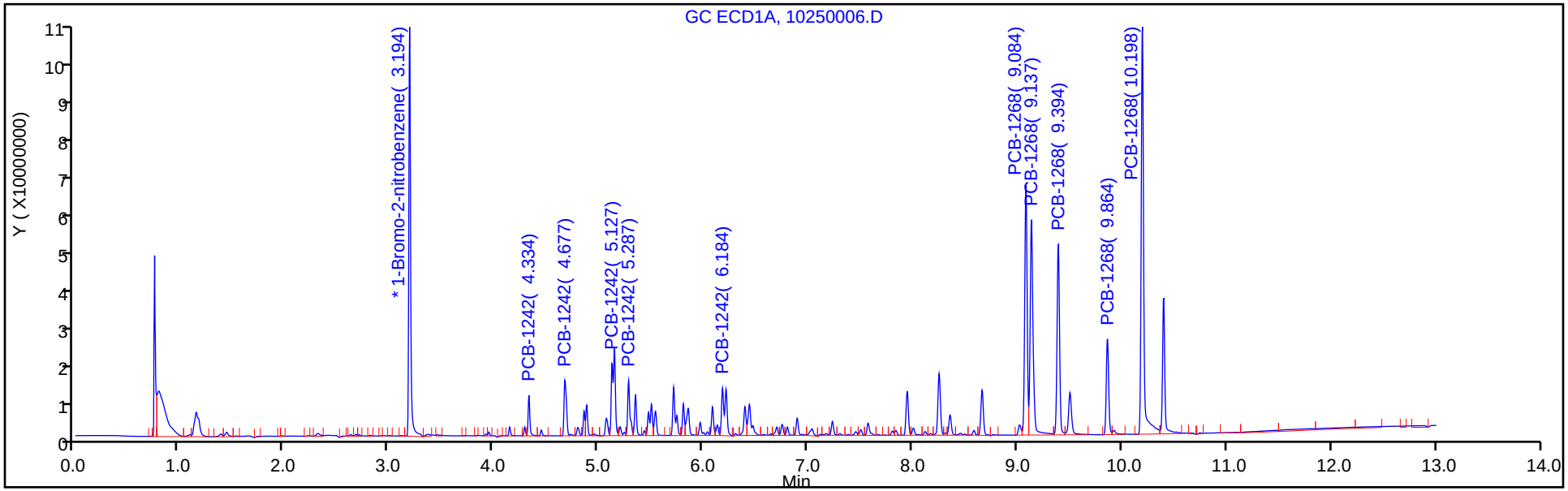
AR_4268_L7_00027	Amount Added: 100.00	Units: uL	
BNB IS_00023	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 25-Oct-2022 16:41:39 Chrom Revision: 2.3 28-Sep-2022 12:57:42

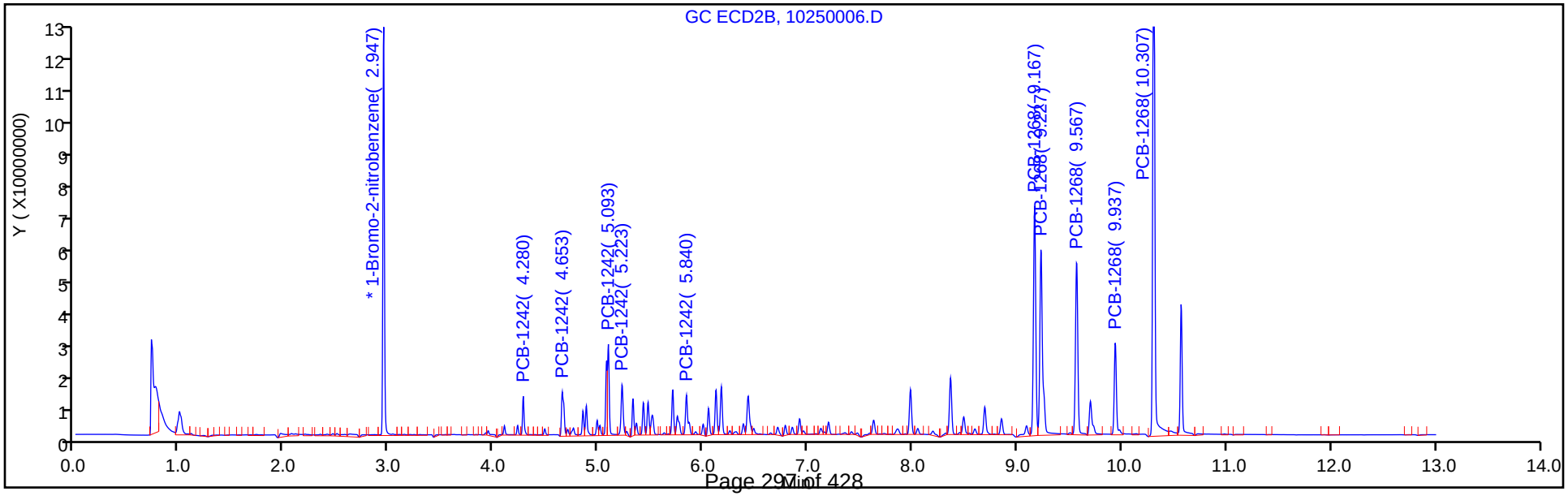
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250006.D				
Injection Date:	25-Oct-2022 11:13:10	Instrument ID:	SGC_P3	Operator ID:	SMP
Lims ID:	STD5 A4268			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Calibration / PCB-1242 Peak 1

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

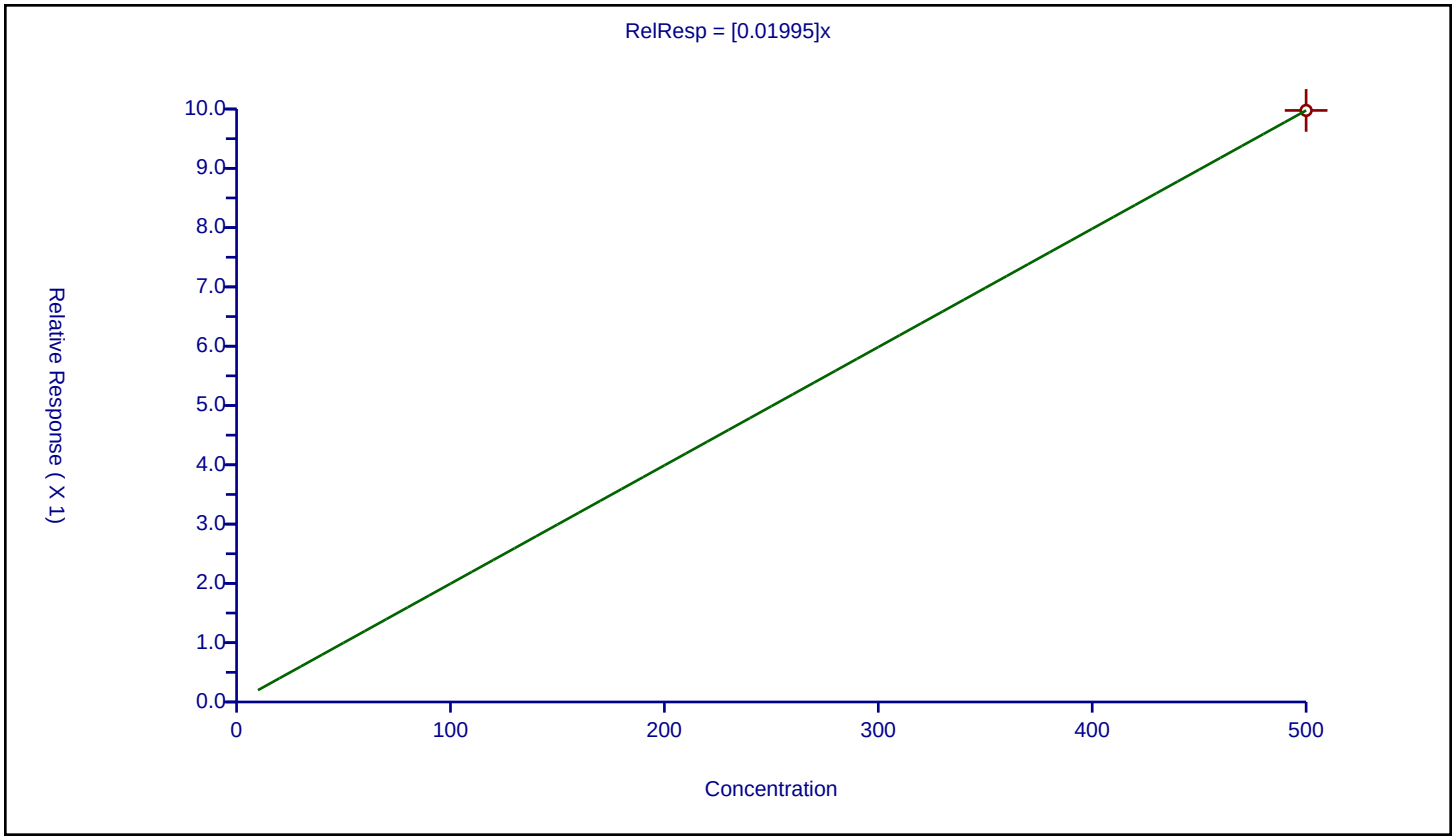
Curve Coefficients

Intercept:	0
Slope:	0.01995

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/6	500.0	9.975987	100.0	122541718.0	0.019952	Y



Calibration / PCB-1242 Peak 2

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

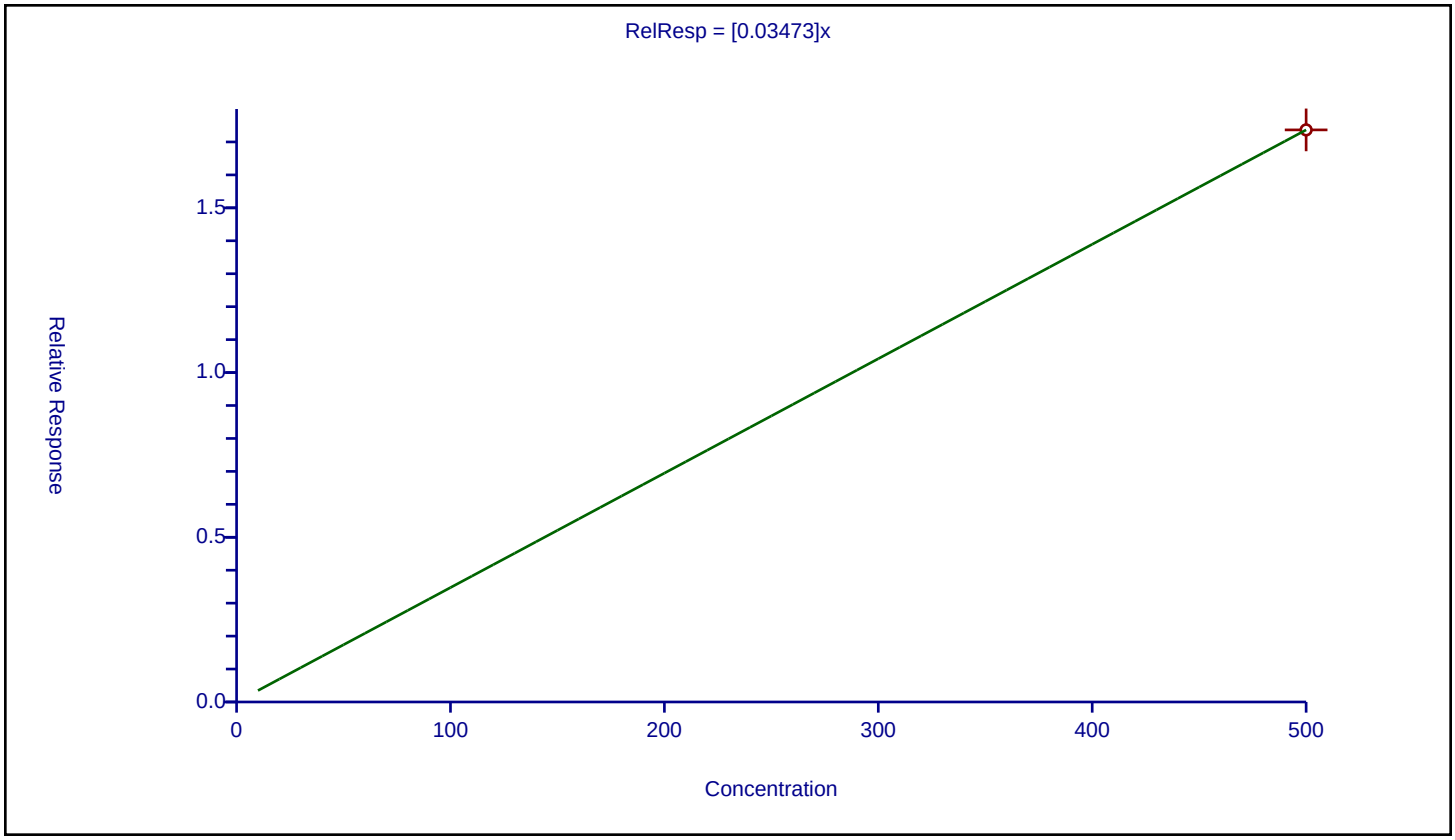
Curve Coefficients

Intercept:	0
Slope:	0.03473

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/6	500.0	17.366402	100.0	122541718.0	0.034733	Y



Calibration / PCB-1242 Peak 3

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

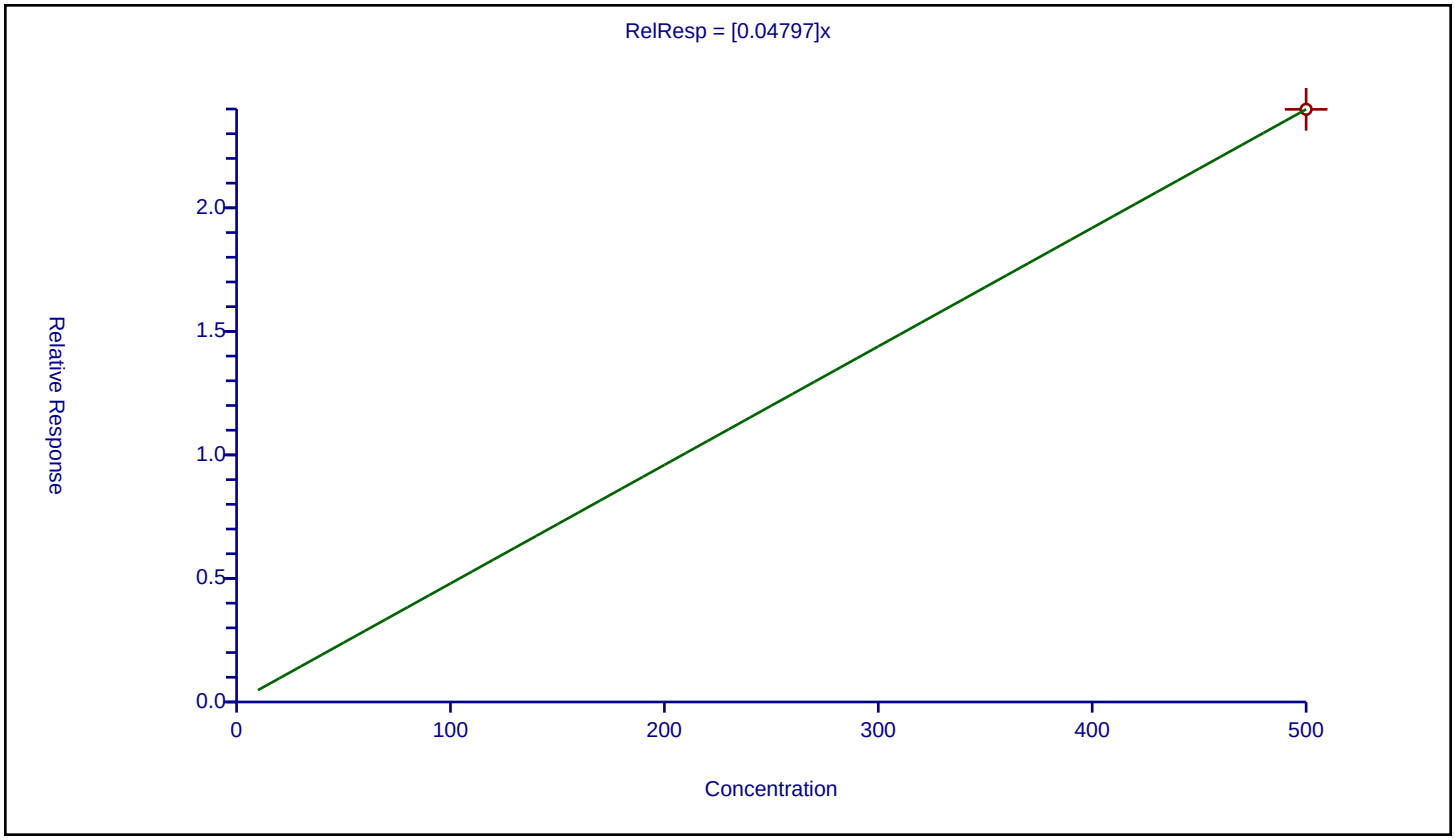
Curve Coefficients

Intercept:	0
Slope:	0.04797

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/6	500.0	23.987368	100.0	122541718.0	0.047975	Y



Calibration / PCB-1242 Peak 4

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

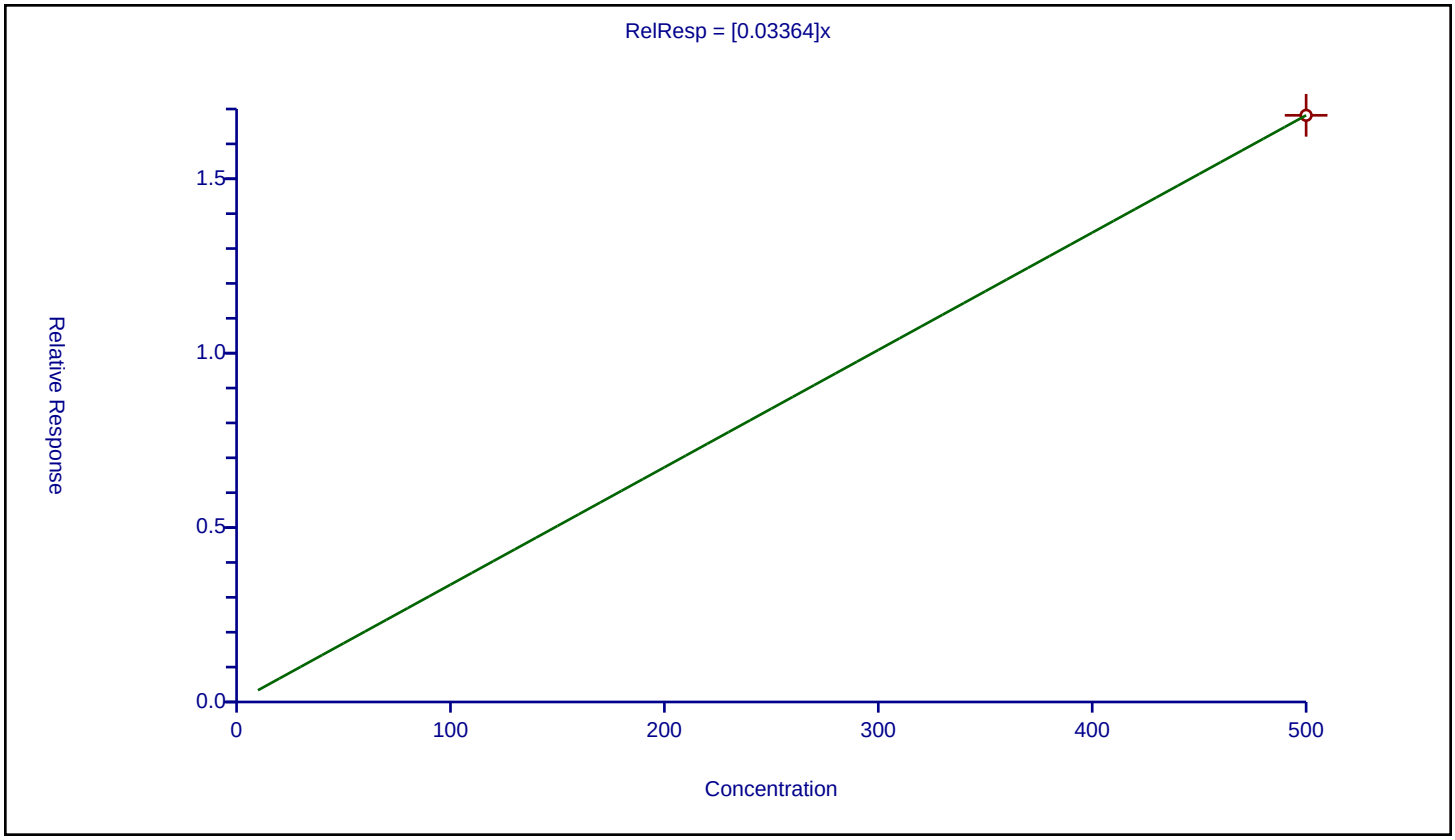
Curve Coefficients

Intercept:	0
Slope:	0.03364

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/6	500.0	16.819233	100.0	122541718.0	0.033638	Y



Calibration / PCB-1242 Peak 5

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

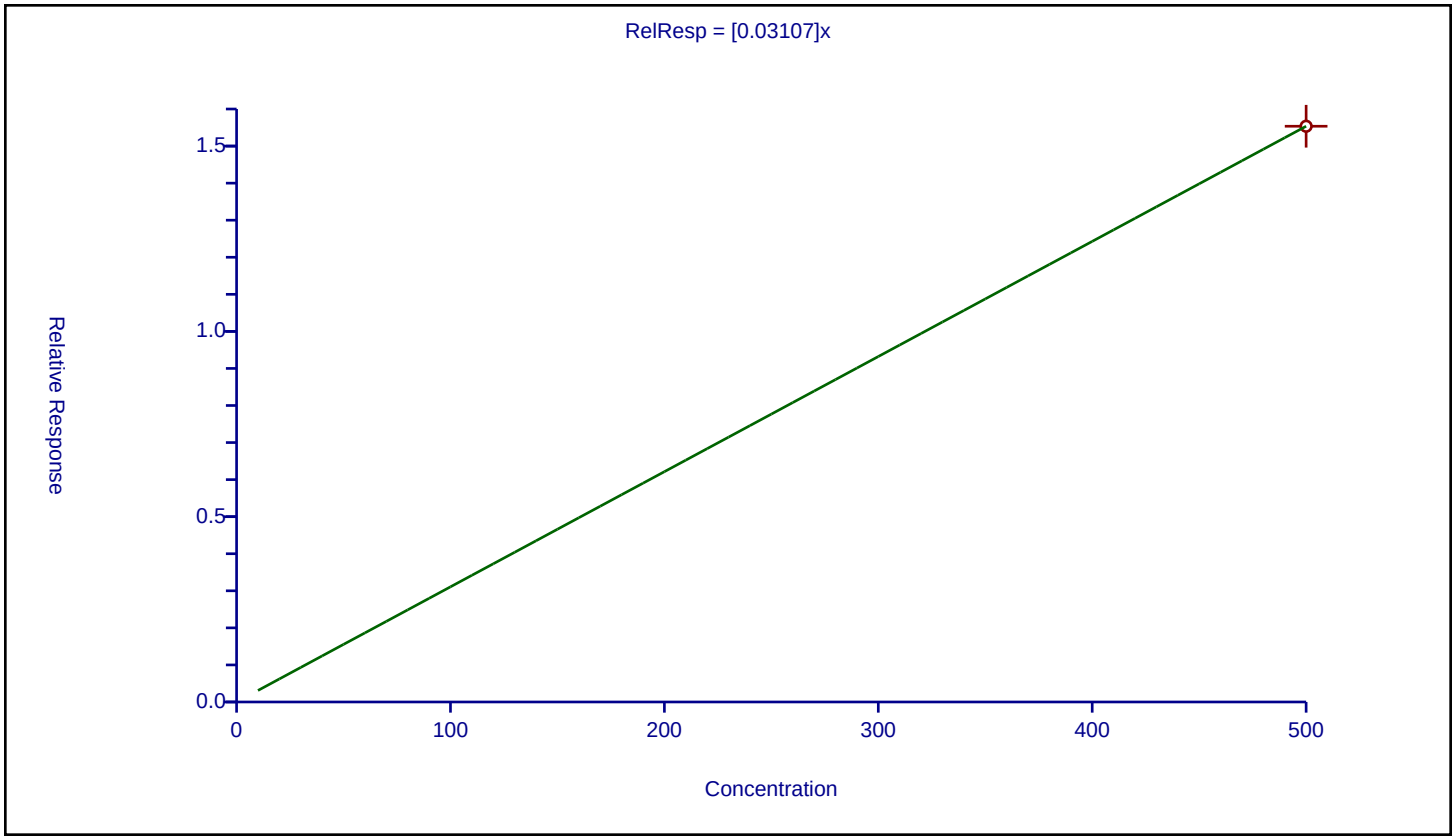
Curve Coefficients

Intercept:	0
Slope:	0.03107

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/6	500.0	15.535508	100.0	122541718.0	0.031071	Y



Calibration / PCB-1268 Peak 1

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

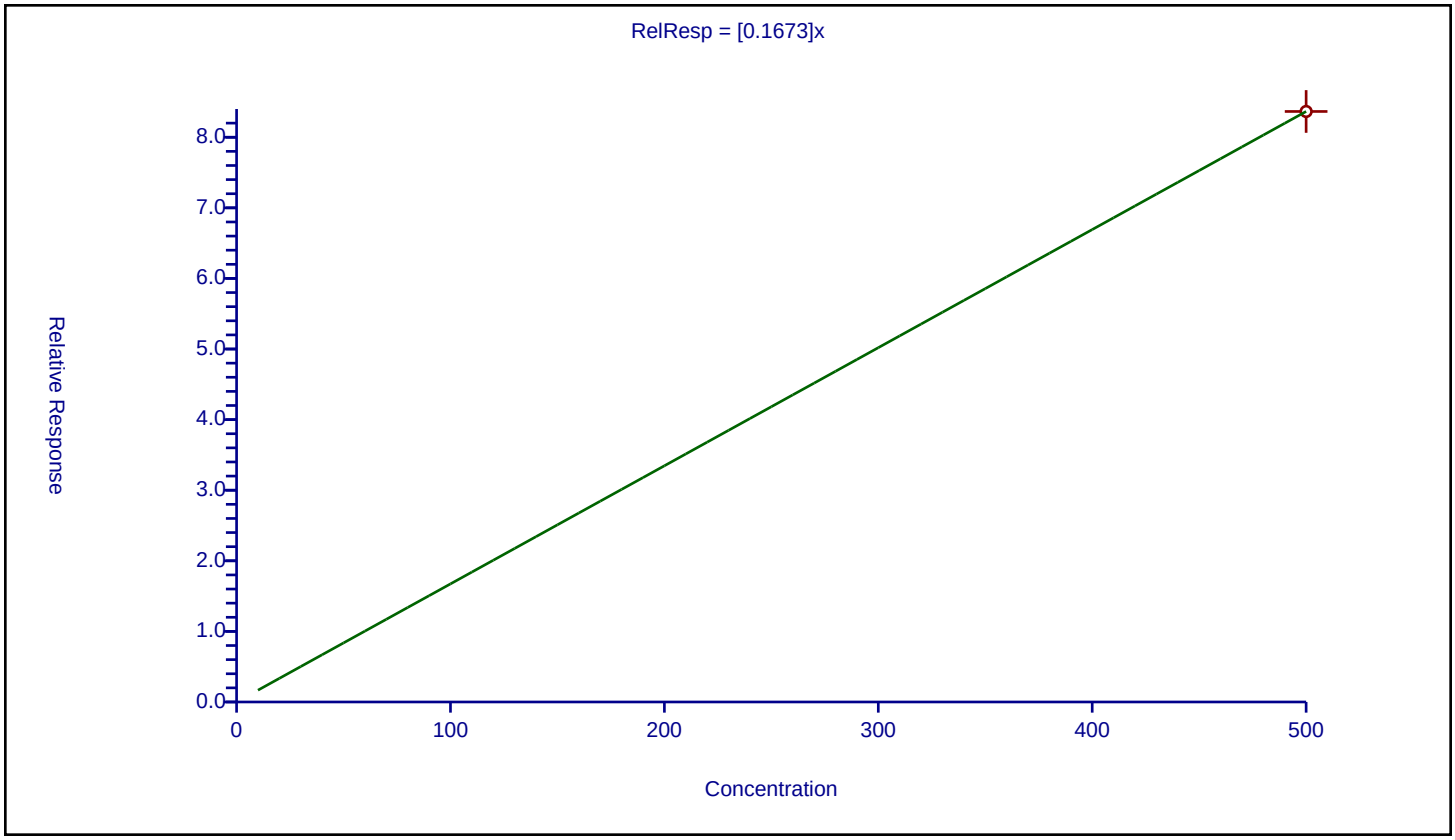
Curve Coefficients

Intercept:	0
Slope:	0.1673

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/6	500.0	83.651489	100.0	122541718.0	0.167303	Y



Calibration / PCB-1268 Peak 2

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

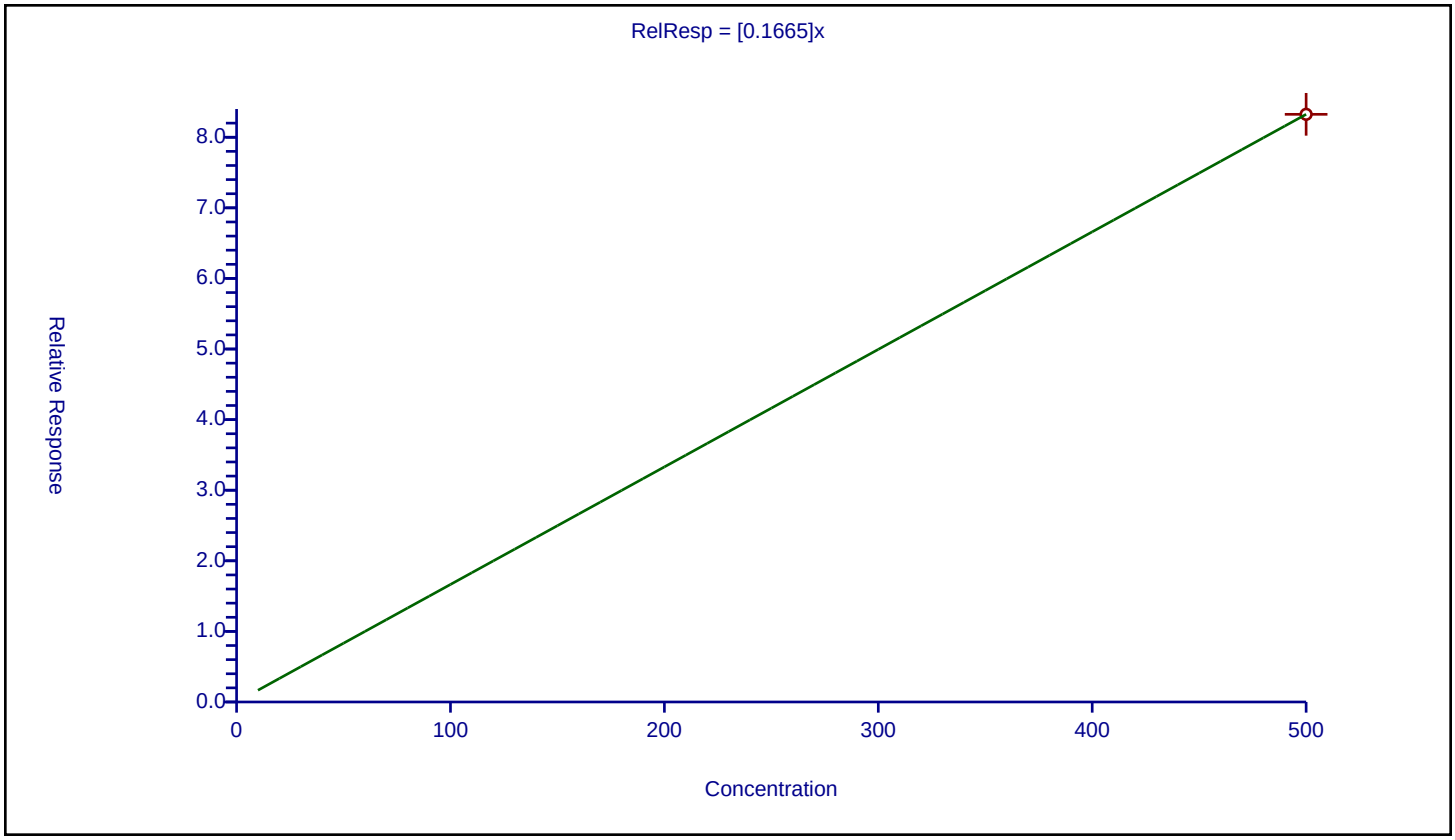
Curve Coefficients

Intercept:	0
Slope:	0.1665

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/6	500.0	83.249074	100.0	122541718.0	0.166498	Y



Calibration / PCB-1268 Peak 3

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

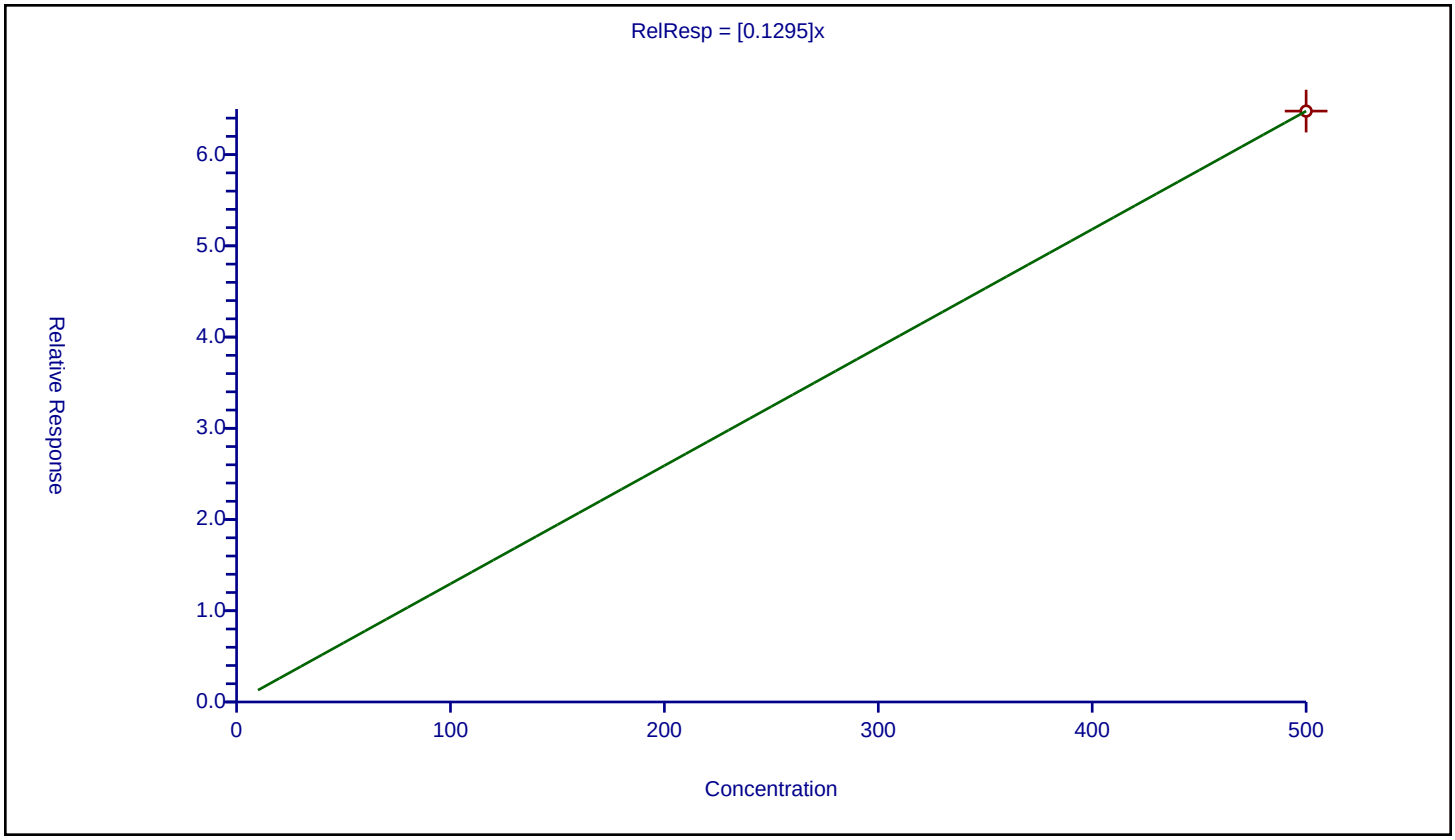
Curve Coefficients

Intercept:	0
Slope:	0.1295

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/6	500.0	64.772411	100.0	122541718.0	0.129545	Y



Calibration / PCB-1268 Peak 4

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

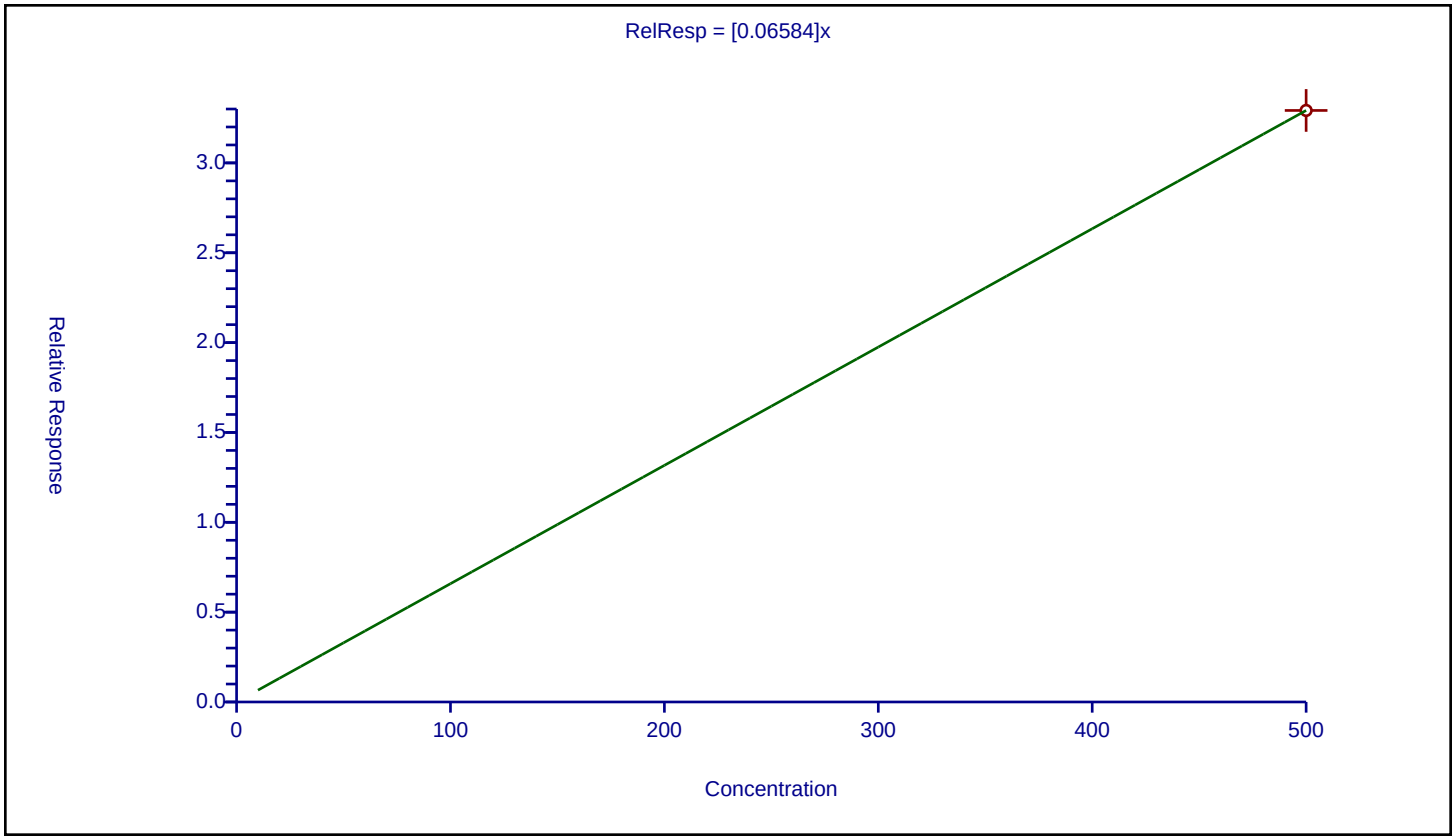
Curve Coefficients

Intercept:	0
Slope:	0.06584

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/6	500.0	32.920145	100.0	122541718.0	0.06584	Y



Calibration / PCB-1268 Peak 5

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

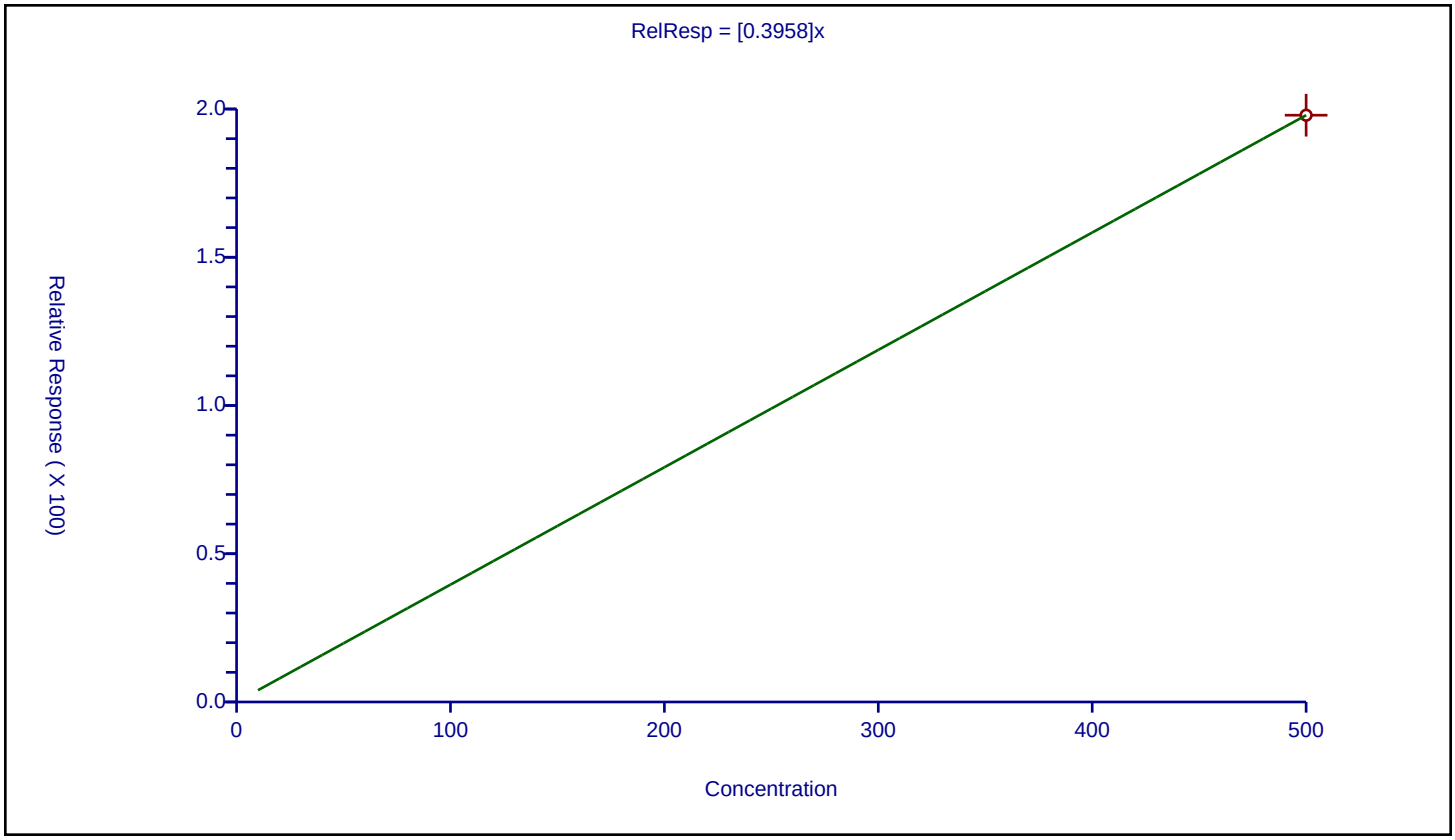
Curve Coefficients

Intercept:	0
Slope:	0.3958

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/6	500.0	197.912051	100.0	122541718.0	0.395824	Y



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-168095-2 Analy Batch No.: 591125

SDG No.:

Instrument ID: SGC_P3 GC Column: CLP1 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/25/2022 11:31 Calibration End Date: 10/25/2022 11:31 Calibration ID: 72292

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 280-591125/7	10250007.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1248 Peak 1	0.0196					Ave		0.0196						20.0			
PCB-1248 Peak 2	0.0202					Ave		0.0202						20.0			
PCB-1248 Peak 3	0.0502					Ave		0.0502						20.0			
PCB-1248 Peak 4	0.0430					Ave		0.0430						20.0			
PCB-1248 Peak 5	0.0250					Ave		0.0250						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-168095-2 Analy Batch No.: 591125

SDG No.:

Instrument ID: SGC_P3 GC Column: CLP1 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/25/2022 11:31 Calibration End Date: 10/25/2022 11:31 Calibration ID: 72292

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 280-591125/7	10250007.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1					LVL 1				
PCB-1248 Peak 1	BNB	Ave	12035891					500				
PCB-1248 Peak 2	BNB	Ave	12389590					500				
PCB-1248 Peak 3	BNB	Ave	30784897					500				
PCB-1248 Peak 4	BNB	Ave	26389106					500				
PCB-1248 Peak 5	BNB	Ave	15311466					500				

Curve Type Legend
Ave = Average ISTD

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D
Lims ID: STD5 A1248
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 25-Oct-2022 11:31:41 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: STD5 A1248
Misc. Info.: 280-0115461-007
Operator ID: SMP Instrument ID: SGC_P3
Sublist: chrom-PCB_P3*sub2

Method: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\PCB_P3.m
Limit Group: GCSV - 8082A - IS
Last Update: 25-Oct-2022 16:41:41 Calib Date: 25-Oct-2022 11:31:41
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
Process Host: CTX1669

First Level Reviewer: USP3 Date: 25-Oct-2022 16:37:49

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.195	3.195	0.000	122632897	100.0	100.0	
2	2.948	2.948	0.000	114723911	100.0	100.0	
						RPD = 0.00	
4 PCB-1248							
1	4.678	4.678	0.000	12035891	500.0	500.0	
1	5.128	5.128	0.000	12389590	500.0	500.0	
1	5.718	5.718	0.000	30784897	500.0	500.0	
1	6.185	6.185	0.000	26389106	500.0	500.0	
1	6.898	6.898	0.000	15311466	500.0	500.0	
		Average of Peak Amounts =				500.0	
2	5.078	5.078	0.000	29246035	500.0	500.0	
2	5.708	5.708	0.000	22306165	500.0	500.0	
2	5.841	5.841	0.000	24370159	500.0	500.0	
2	6.124	6.124	0.000	25078609	500.0	500.0	
2	6.431	6.431	0.000	27260033	500.0	500.0	
		Average of Peak Amounts =				500.0	
						RPD = 0.00	
S 8 Polychlorinated biphenyls, Total							
1						500.0	
2						500.0	
						RPD = 0.00	

QC Flag Legend

Processing Flags

Reagents:

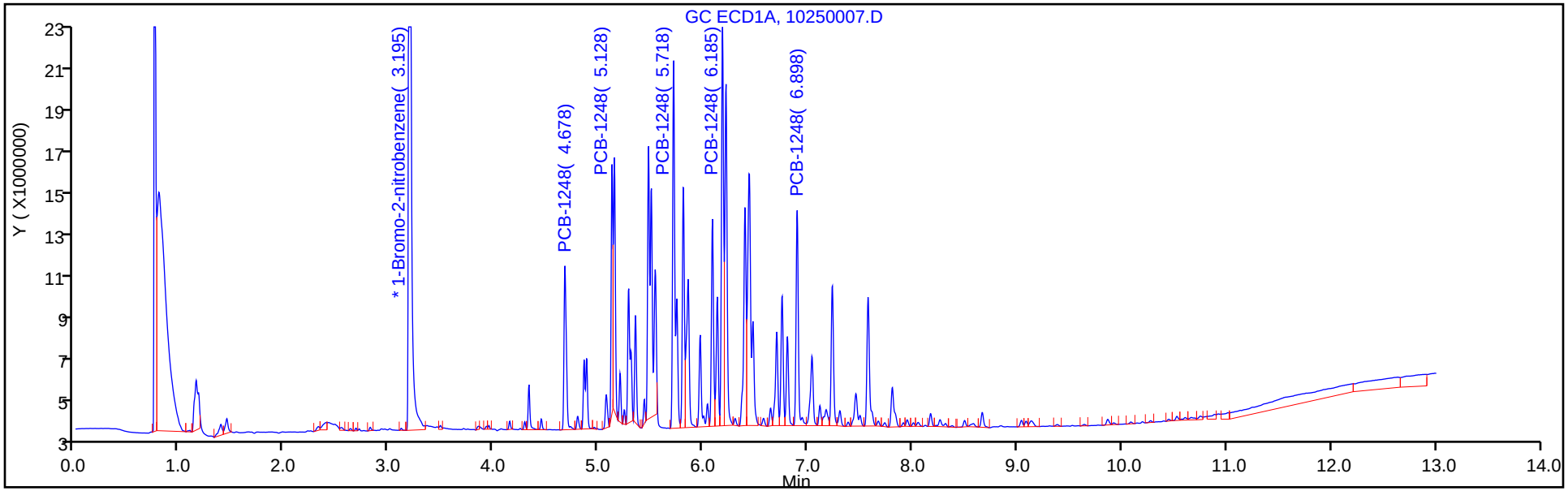
AR_1248_L7_00031	Amount Added: 100.00	Units: uL	
BNB IS_00023	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 25-Oct-2022 16:41:41 Chrom Revision: 2.3 28-Sep-2022 12:57:42

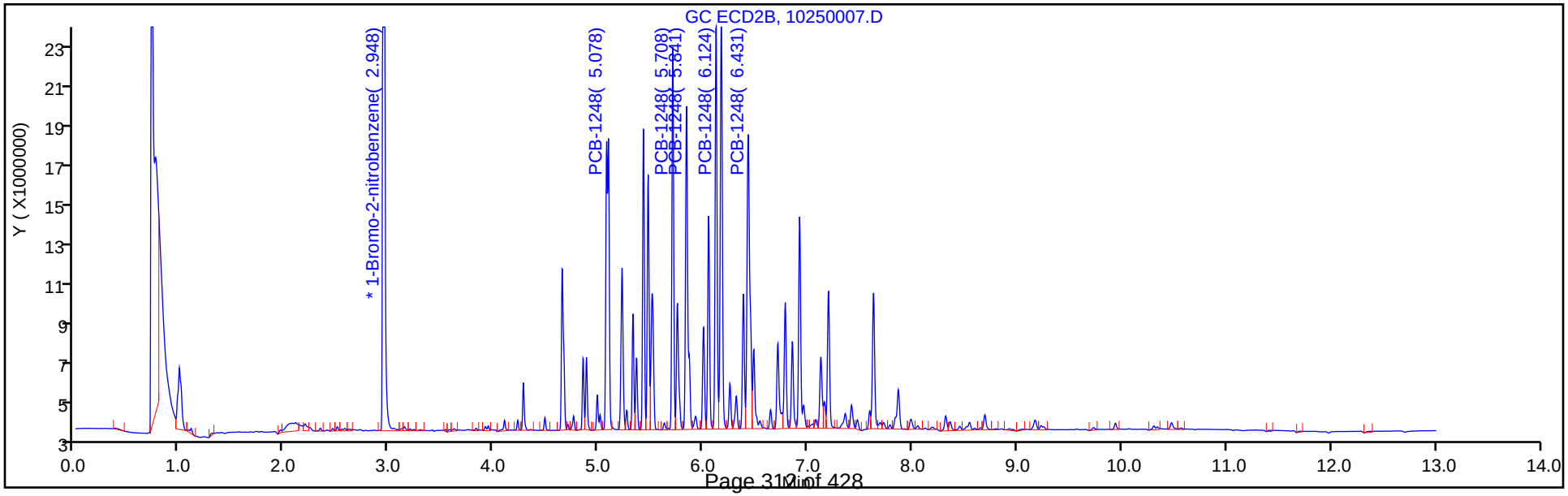
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D				
Injection Date:	25-Oct-2022 11:31:41	Instrument ID:	SGC_P3	Operator ID:	SMP
Lims ID:	STD5 A1248			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Calibration / PCB-1248 Peak 1

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

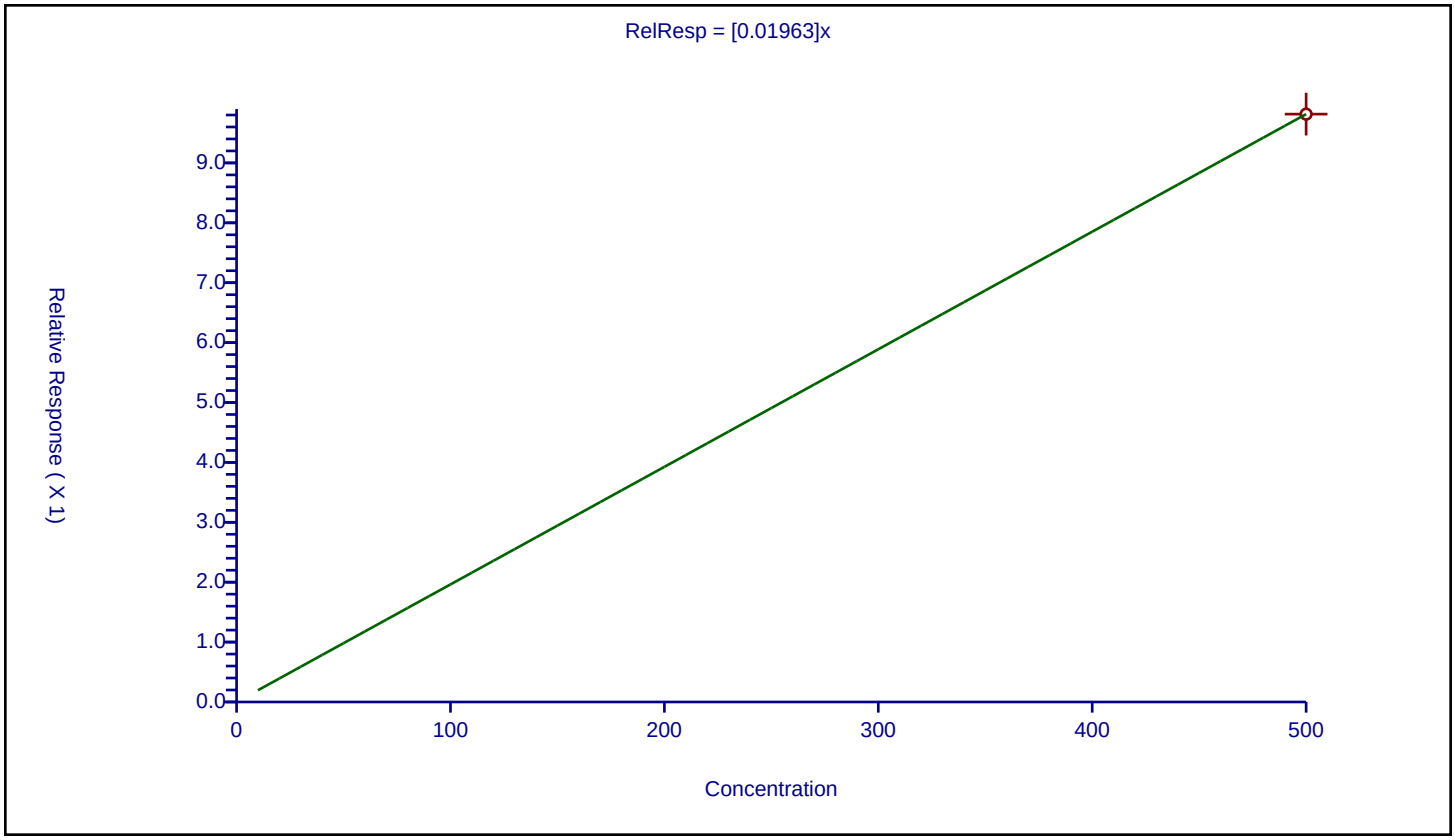
Curve Coefficients

Intercept:	0
Slope:	0.01963

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/7	500.0	9.81457	100.0	122632897.0	0.019629	Y



Calibration / PCB-1248 Peak 2

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

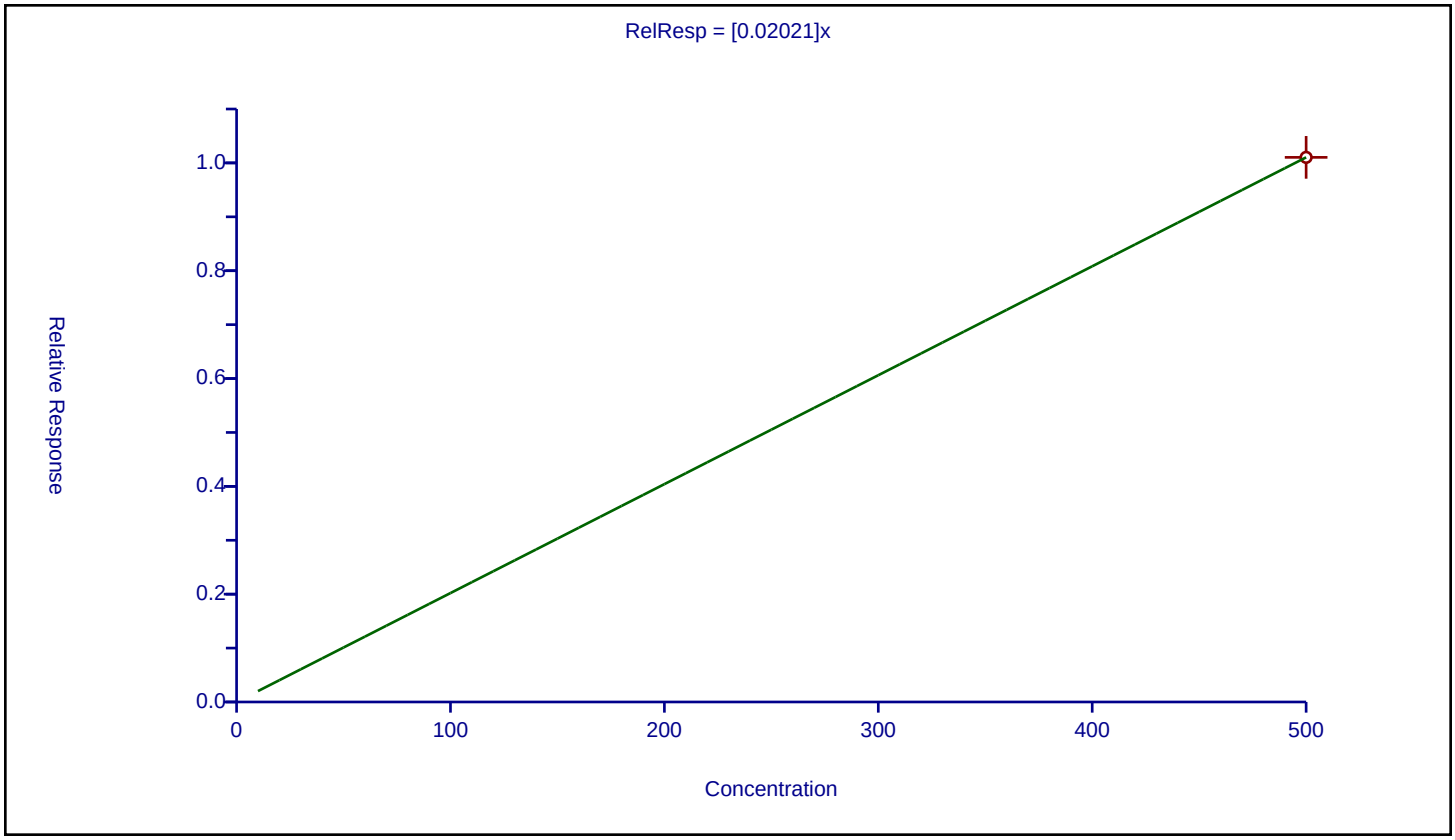
Curve Coefficients

Intercept:	0
Slope:	0.02021

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/7	500.0	10.102991	100.0	122632897.0	0.020206	Y



Calibration / PCB-1248 Peak 3

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

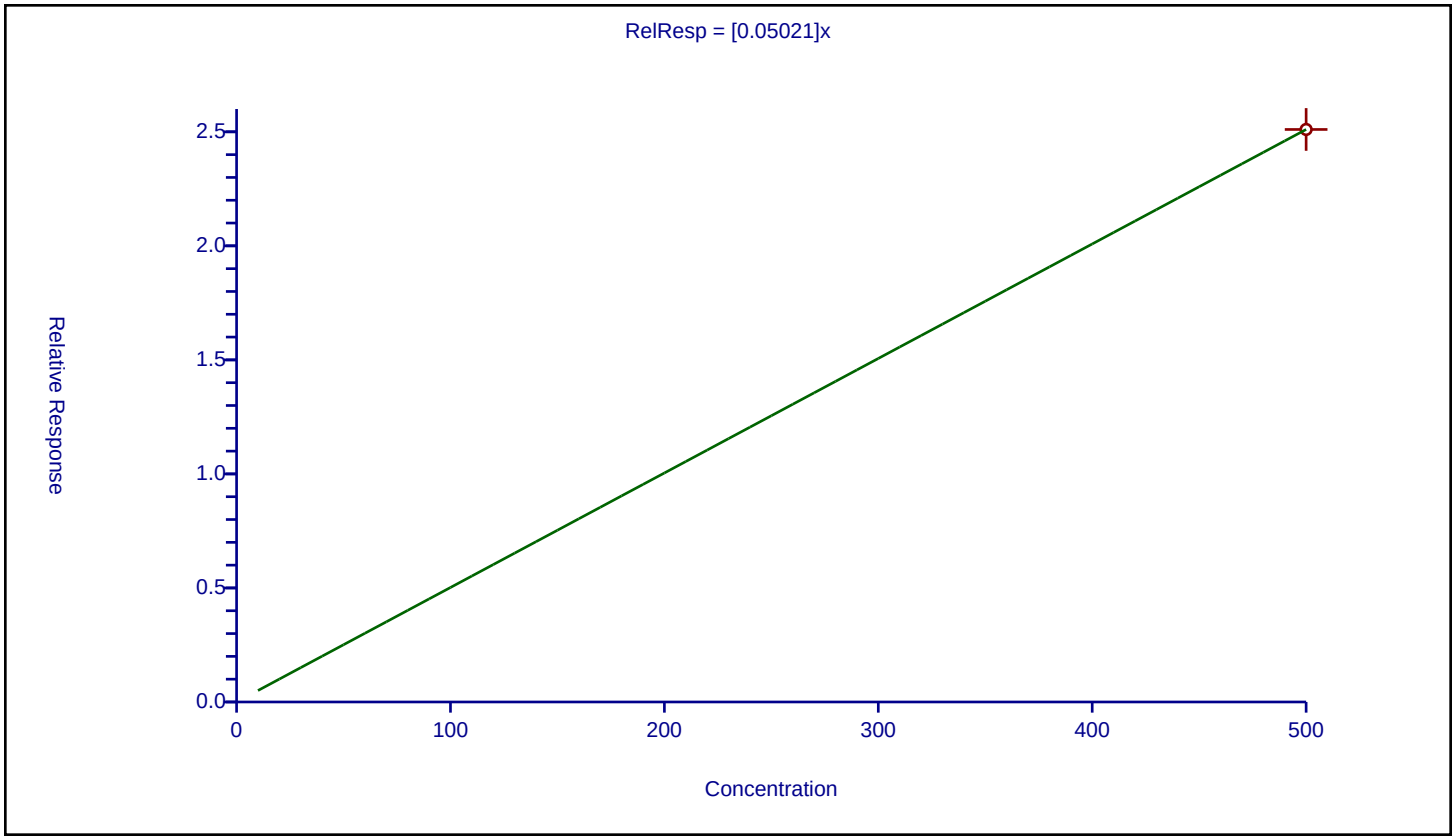
Curve Coefficients

Intercept:	0
Slope:	0.05021

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/7	500.0	25.103294	100.0	122632897.0	0.050207	Y



Calibration / PCB-1248 Peak 4

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

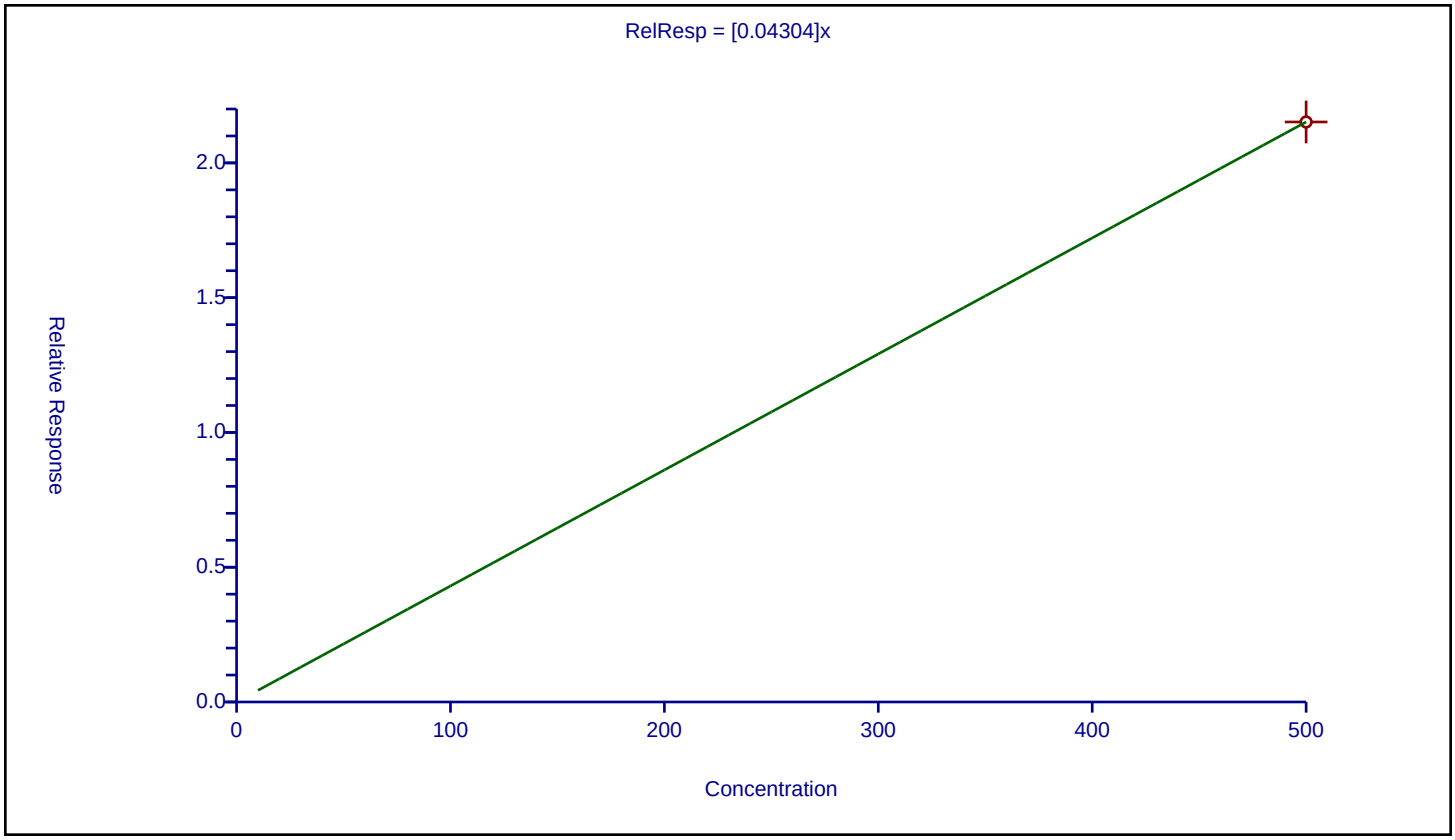
Curve Coefficients

Intercept:	0
Slope:	0.04304

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/7	500.0	21.518782	100.0	122632897.0	0.043038	Y



Calibration / PCB-1248 Peak 5

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

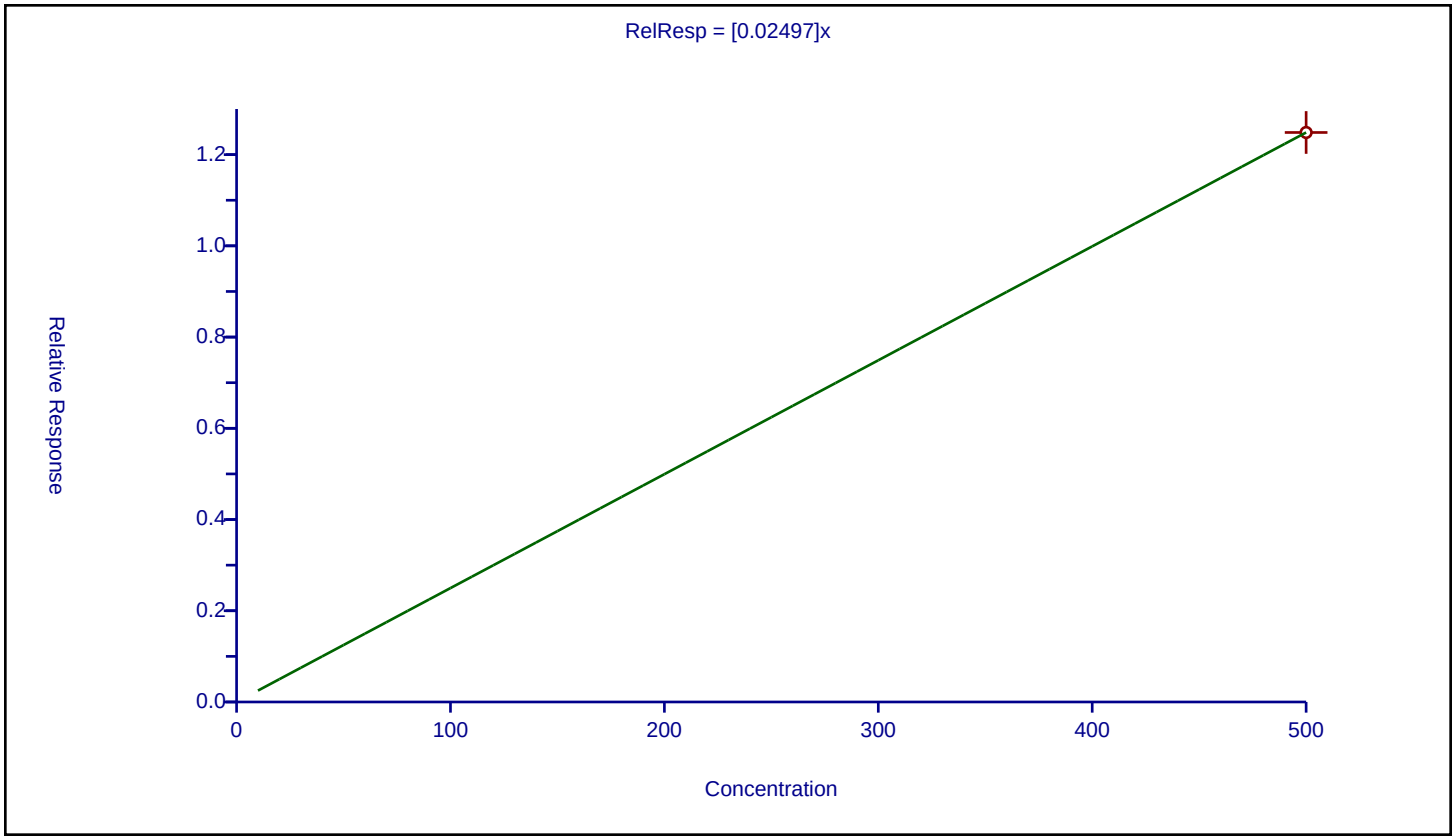
Curve Coefficients

Intercept:	0
Slope:	0.02497

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/7	500.0	12.485611	100.0	122632897.0	0.024971	Y



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-168095-2 Analy Batch No.: 591125

SDG No.:

Instrument ID: SGC_P3 GC Column: CLP2 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/25/2022 11:31 Calibration End Date: 10/25/2022 11:31 Calibration ID: 72293

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 280-591125/7	10250007.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1248 Peak 1	0.0510					Ave		0.0510						20.0			
PCB-1248 Peak 2	0.0389					Ave		0.0389						20.0			
PCB-1248 Peak 3	0.0425					Ave		0.0425						20.0			
PCB-1248 Peak 4	0.0437					Ave		0.0437						20.0			
PCB-1248 Peak 5	0.0475					Ave		0.0475						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-168095-2 Analy Batch No.: 591125

SDG No.:

Instrument ID: SGC_P3 GC Column: CLP2 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/25/2022 11:31 Calibration End Date: 10/25/2022 11:31 Calibration ID: 72293

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 280-591125/7	10250007.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1					LVL 1				
PCB-1248 Peak 1	BNB	Ave	29246035					500				
PCB-1248 Peak 2	BNB	Ave	22306165					500				
PCB-1248 Peak 3	BNB	Ave	24370159					500				
PCB-1248 Peak 4	BNB	Ave	25078609					500				
PCB-1248 Peak 5	BNB	Ave	27260033					500				

Curve Type Legend
Ave = Average ISTD

Eurofins Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D				
Lims ID:	STD5 A1248				
Client ID:					
Sample Type:	IC	Calib Level:	5		
Inject. Date:	25-Oct-2022 11:31:41	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	STD5 A1248				
Misc. Info.:	280-0115461-007				
Operator ID:	SMP	Instrument ID:	SGC_P3		
Sublist:	chrom-PCB_P3*sub2				
Method:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\PCB_P3.m				
Limit Group:	GCSV - 8082A - IS				
Last Update:	25-Oct-2022 16:41:41	Calib Date:	25-Oct-2022 11:31:41		
Integrator:	Falcon				
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D				
Column 1 :	CLP1 Pesticides Column 1 (0.32 mm)		Det: GC ECD1A		
Column 2 :	CLP2 Pesticides Column 2 (0.32 mm)		Det: GC ECD2B		
Process Host:	CTX1669				

First Level Reviewer: USP3 Date: 25-Oct-2022 16:37:49

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.195	3.195	0.000	122632897	100.0	100.0	
2	2.948	2.948	0.000	114723911	100.0	100.0	
						RPD = 0.00	
4 PCB-1248							
1	4.678	4.678	0.000	12035891	500.0	500.0	
1	5.128	5.128	0.000	12389590	500.0	500.0	
1	5.718	5.718	0.000	30784897	500.0	500.0	
1	6.185	6.185	0.000	26389106	500.0	500.0	
1	6.898	6.898	0.000	15311466	500.0	500.0	
		Average of Peak Amounts =				500.0	
2	5.078	5.078	0.000	29246035	500.0	500.0	
2	5.708	5.708	0.000	22306165	500.0	500.0	
2	5.841	5.841	0.000	24370159	500.0	500.0	
2	6.124	6.124	0.000	25078609	500.0	500.0	
2	6.431	6.431	0.000	27260033	500.0	500.0	
		Average of Peak Amounts =				500.0	
						RPD = 0.00	
S 8 Polychlorinated biphenyls, Total							
1						500.0	
2						500.0	
						RPD = 0.00	

QC Flag Legend

Processing Flags

Reagents:

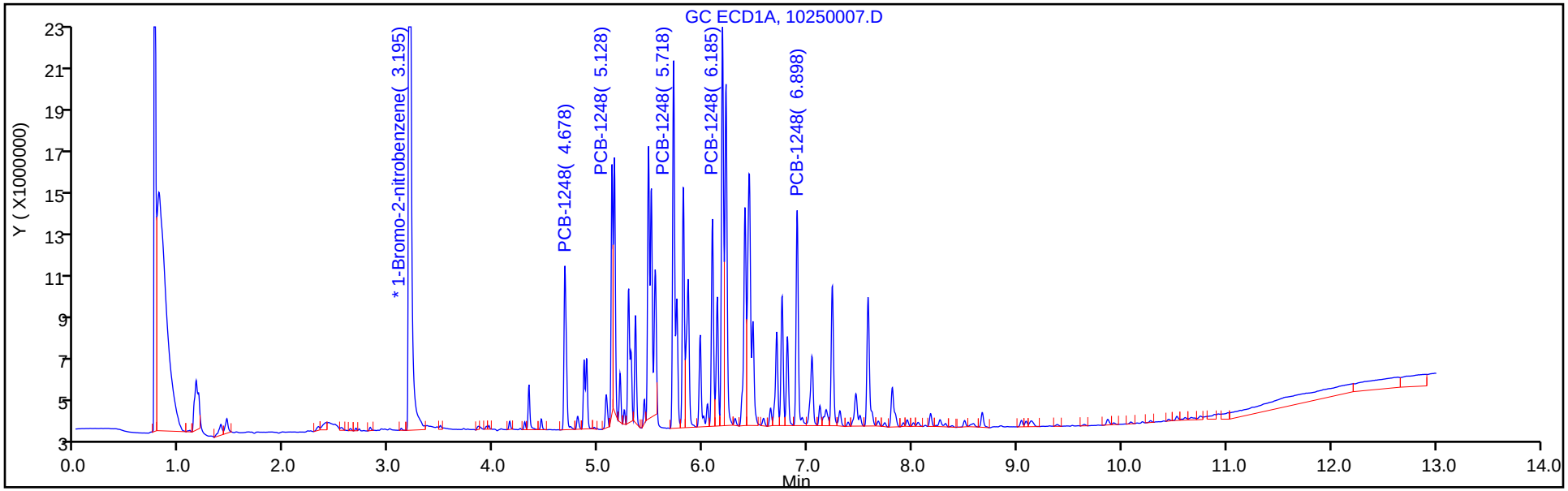
AR_1248_L7_00031	Amount Added: 100.00	Units: uL	
BNB IS_00023	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 25-Oct-2022 16:41:41 Chrom Revision: 2.3 28-Sep-2022 12:57:42

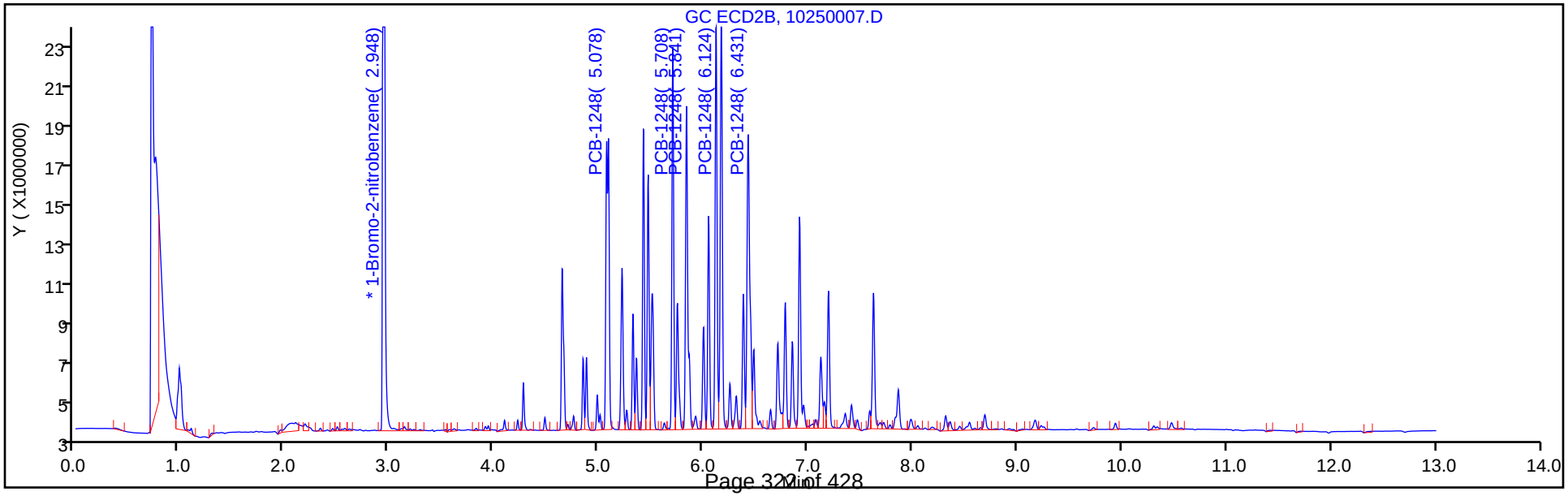
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D				
Injection Date:	25-Oct-2022 11:31:41	Instrument ID:	SGC_P3	Operator ID:	SMP
Lims ID:	STD5 A1248			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Calibration / PCB-1248 Peak 1

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

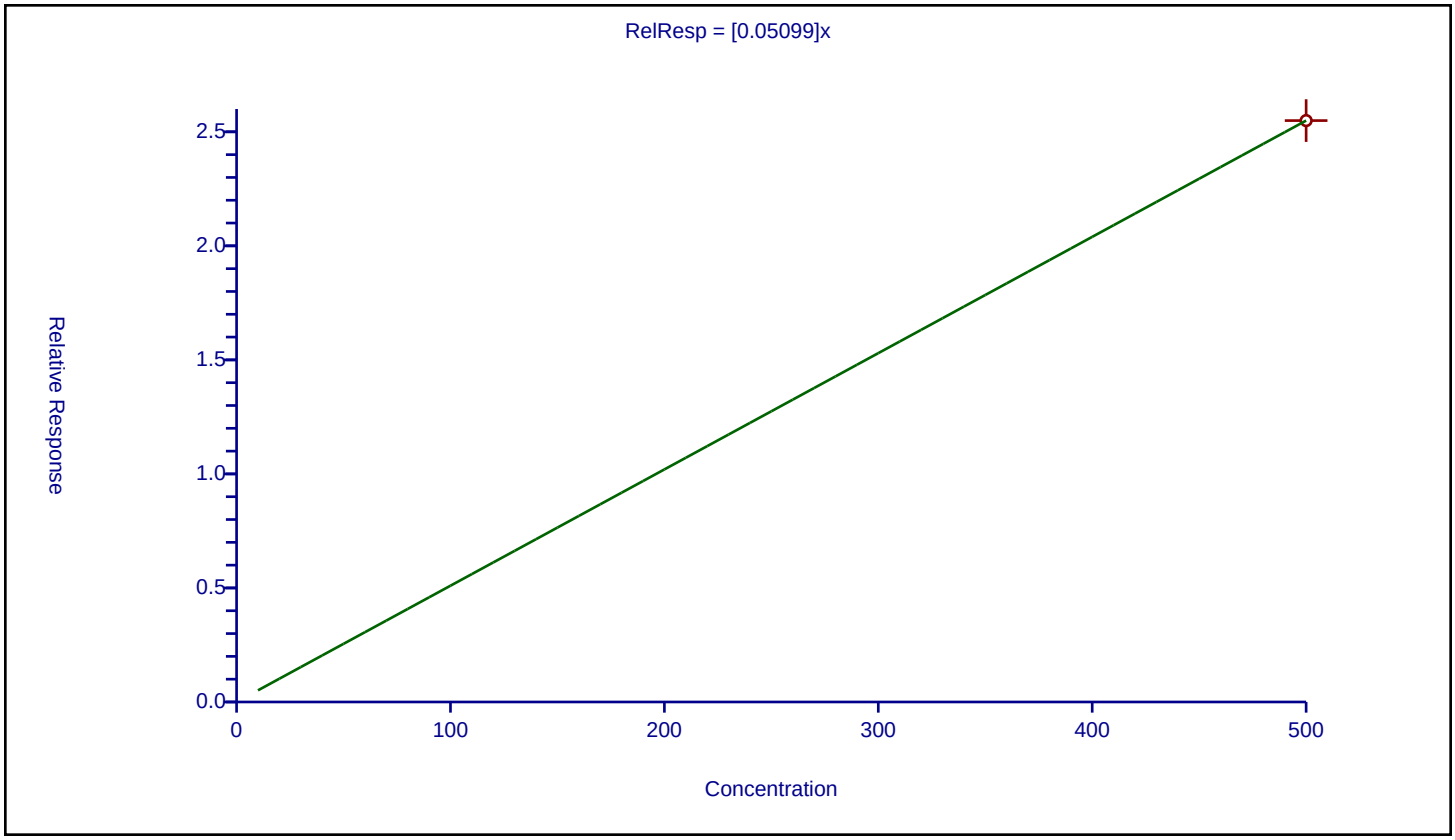
Curve Coefficients

Intercept:	0
Slope:	0.05099

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/7	500.0	25.492537	100.0	114723911.0	0.050985	Y



Calibration / PCB-1248 Peak 2

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

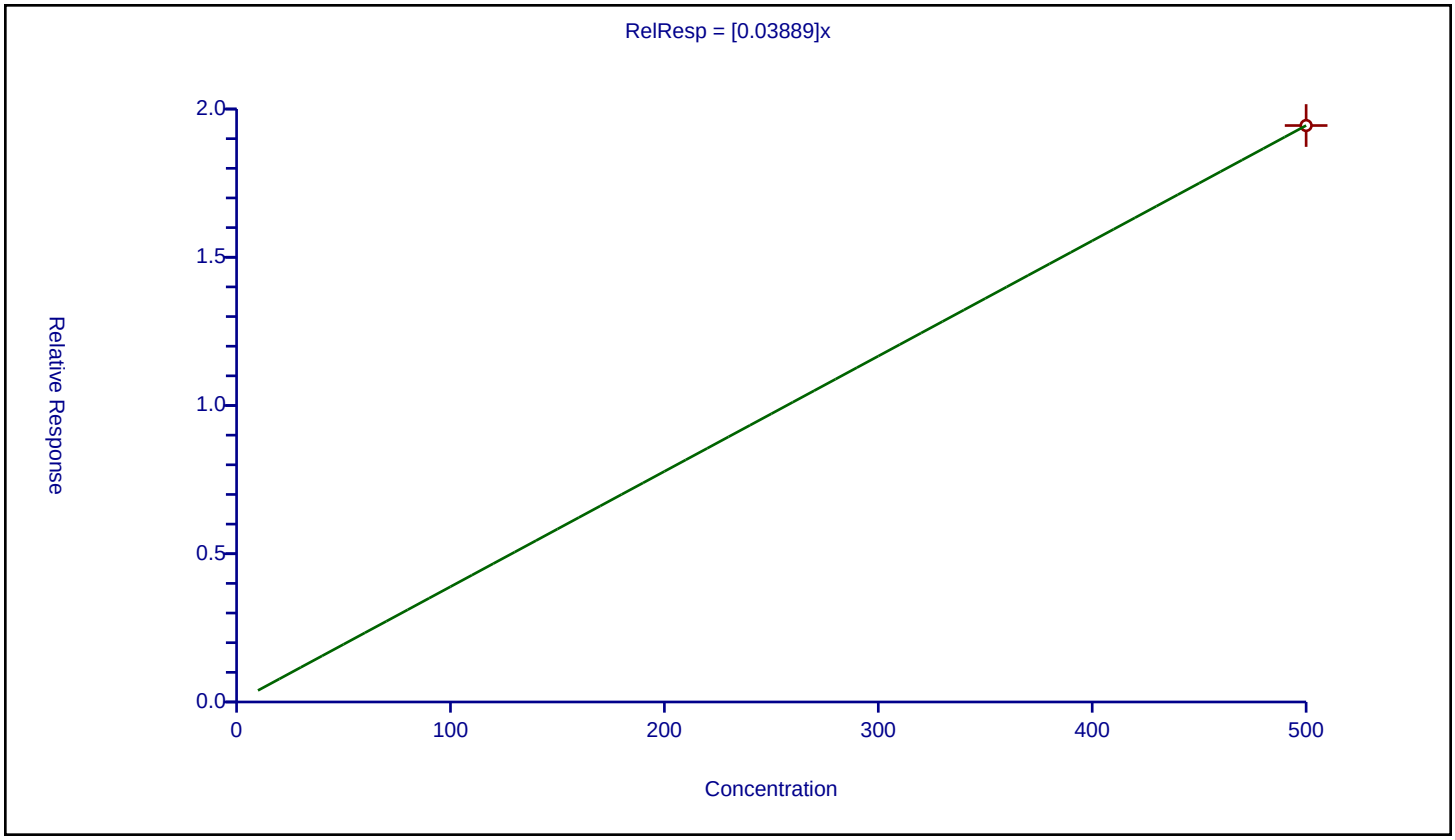
Curve Coefficients

Intercept:	0
Slope:	0.03889

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/7	500.0	19.443344	100.0	114723911.0	0.038887	Y



Calibration / PCB-1248 Peak 3

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

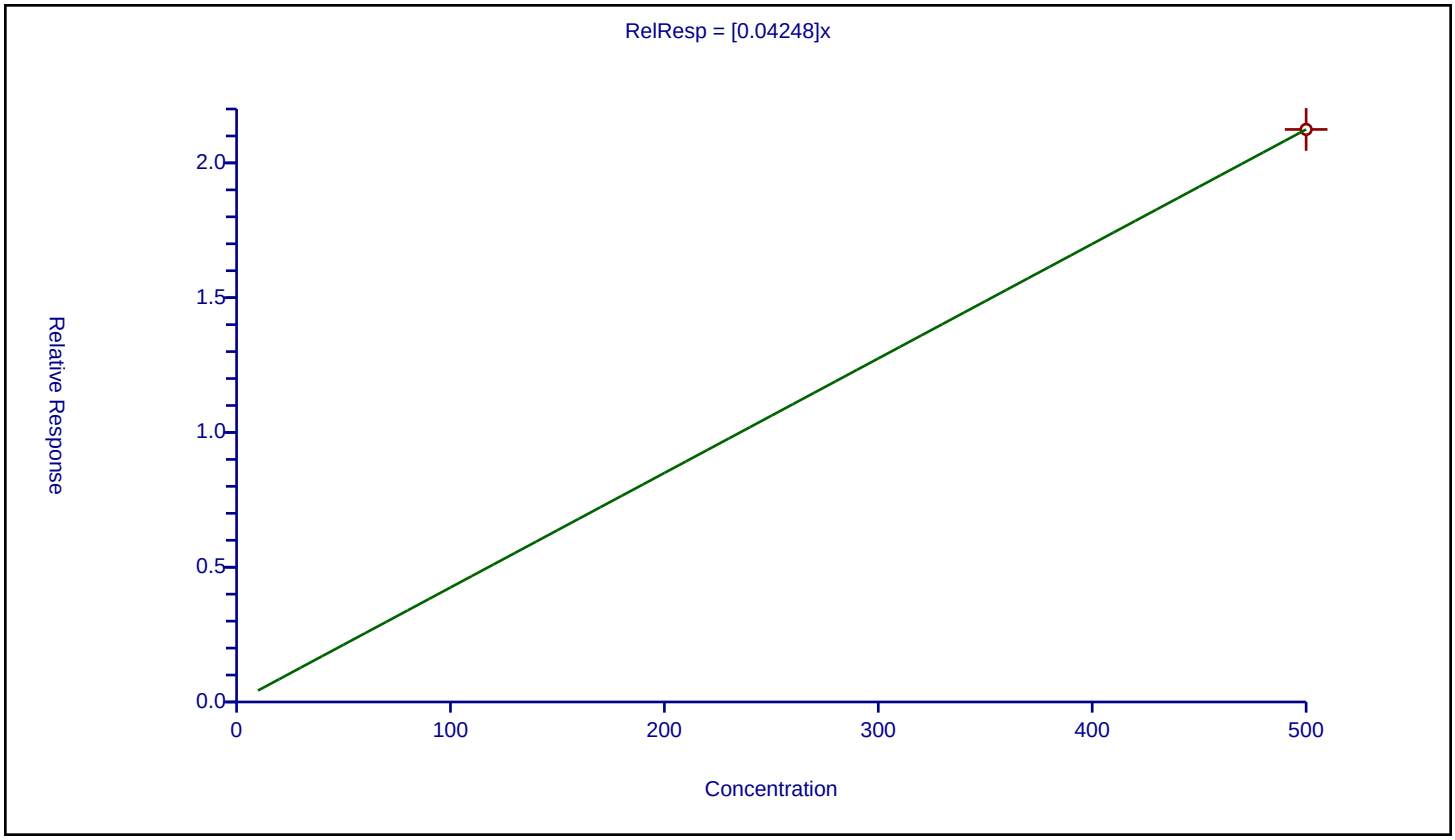
Curve Coefficients

Intercept:	0
Slope:	0.04248

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/7	500.0	21.242441	100.0	114723911.0	0.042485	Y



Calibration / PCB-1248 Peak 4

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

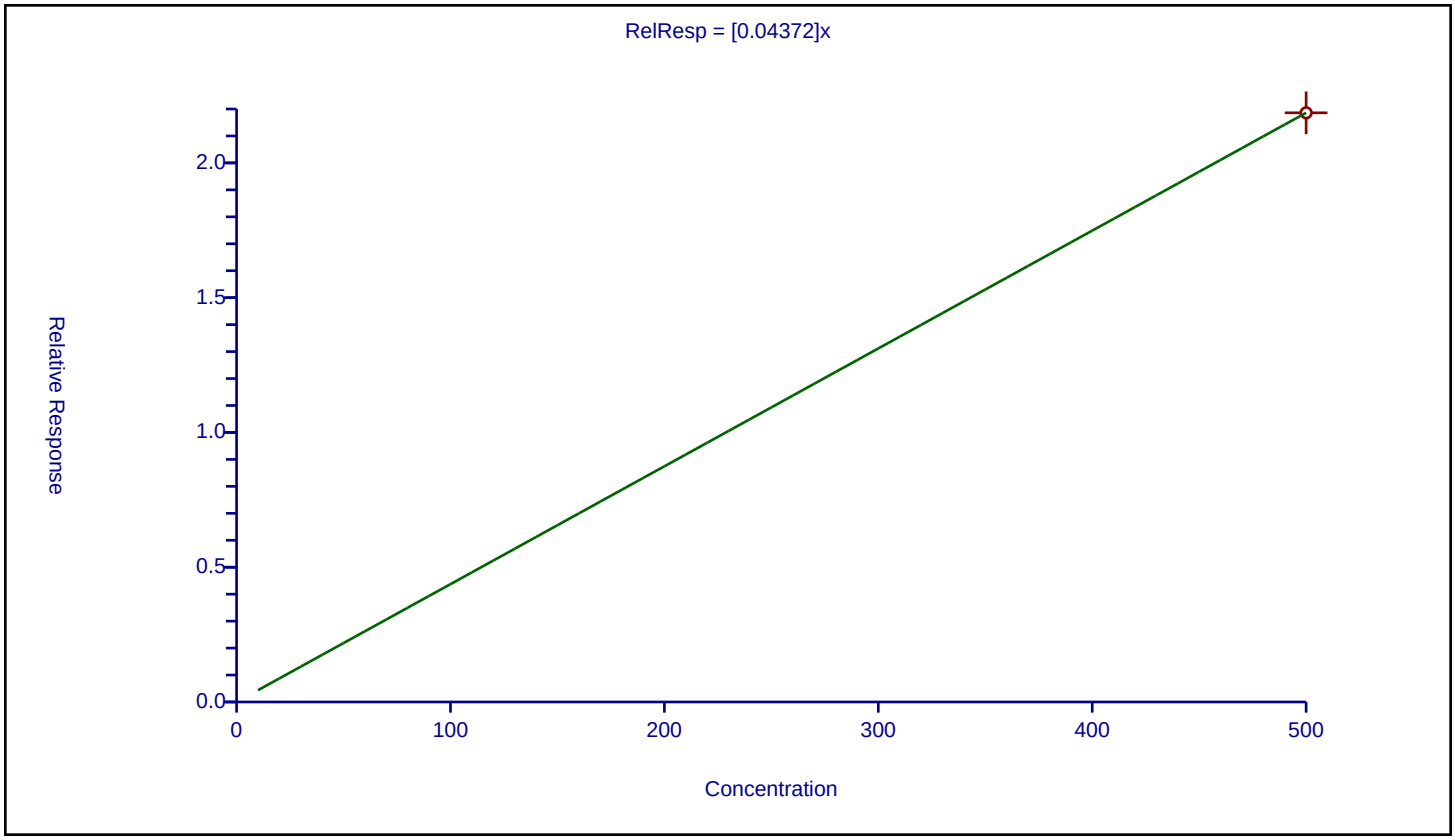
Curve Coefficients

Intercept:	0
Slope:	0.04372

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/7	500.0	21.859967	100.0	114723911.0	0.04372	Y



Calibration / PCB-1248 Peak 5

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

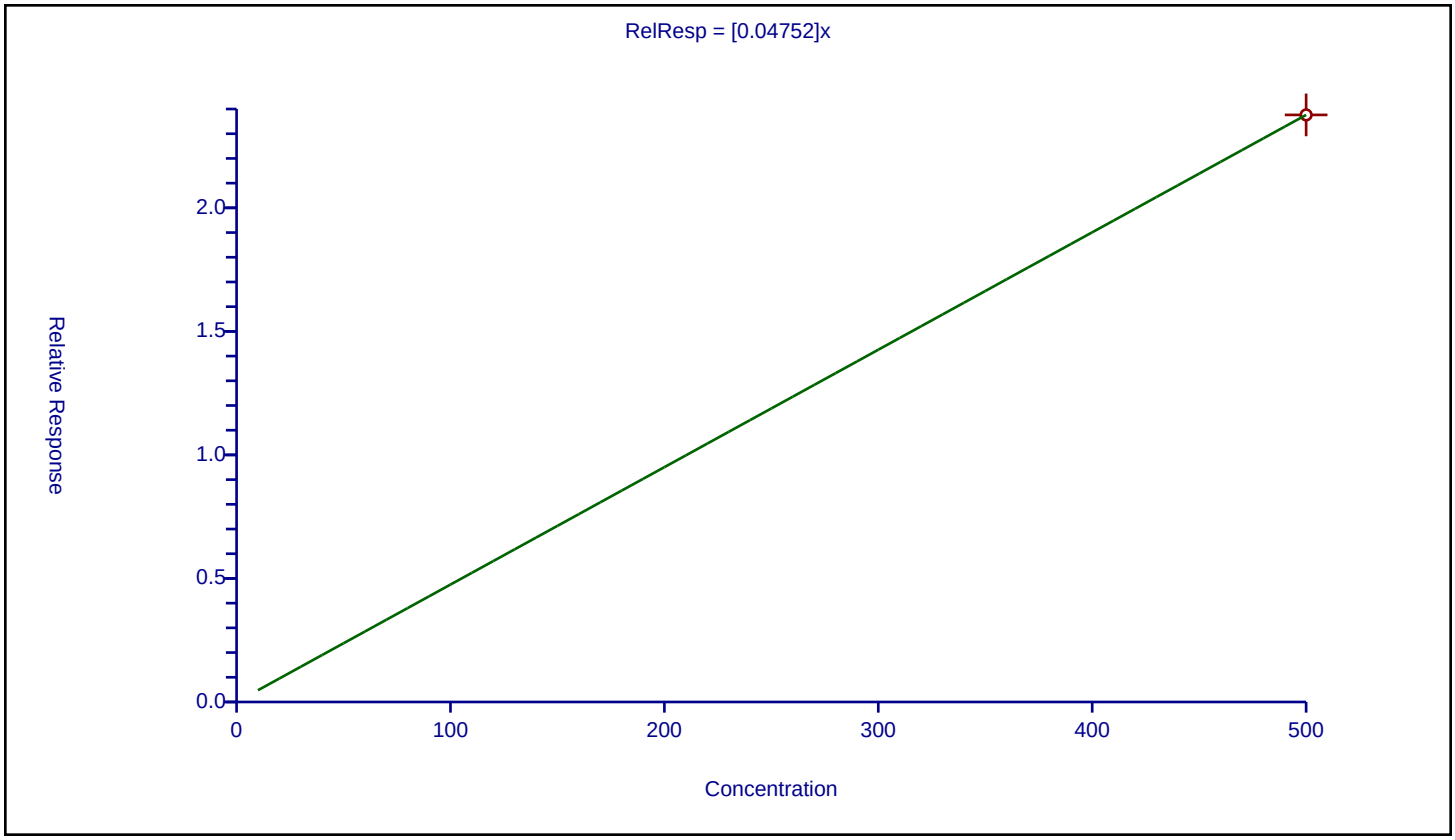
Curve Coefficients

Intercept:	0
Slope:	0.04752

Error Coefficients

Standard Error:	
Relative Standard Error:	0.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD5 280-591125/7	500.0	23.761422	100.0	114723911.0	0.047523	Y



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Lab Sample ID: ICV 280-583810/14 Calibration Date: 08/12/2022 14:22

Instrument ID: SGC_P3 Calib Start Date: 08/12/2022 12:05

GC Column: CLP1 ID: 0.32(mm) Calib End Date: 08/12/2022 14:02

Lab File ID: 08120014.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0216	0.0227		263	250	5.1	20.0
PCB-1016 Peak 2	Lin2		0.0440		265	250	5.9	20.0
PCB-1016 Peak 3	Lin2		0.0867		256	250	2.4	20.0
PCB-1016 Peak 4	Lin2		0.0377		259	250	3.4	20.0
PCB-1016 Peak 5	Ave	0.0398	0.0392		246	250	-1.4	20.0
PCB-1260 Peak 1	Lin2		0.0484		276	250	10.5	20.0
PCB-1260 Peak 2	Lin2		0.0756		272	250	8.8	20.0
PCB-1260 Peak 3	Lin2		0.0838		262	250	4.6	20.0
PCB-1260 Peak 4	Lin2		0.1079		266	250	6.3	20.0
PCB-1260 Peak 5	Lin2		0.0574		270	250	7.8	20.0
Tetrachloro-m-xylene	Lin2		1.266		13.5	12.0	12.9	20.0
DCB Decachlorobiphenyl	Lin2		0.9865		13.5	12.0	12.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Lab Sample ID: ICV 280-583810/14 Calibration Date: 08/12/2022 14:22

Instrument ID: SGC_P3 Calib Start Date: 08/12/2022 12:05

GC Column: CLP1 ID: 0.32(mm) Calib End Date: 08/12/2022 14:02

Lab File ID: 08120014.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.35	4.33	4.38
PCB-1016 Peak 2	4.70	4.67	4.72
PCB-1016 Peak 3	5.15	5.12	5.17
PCB-1016 Peak 4	5.31	5.28	5.33
PCB-1016 Peak 5	5.74	5.71	5.76
PCB-1260 Peak 1	7.14	7.11	7.16
PCB-1260 Peak 2	7.48	7.45	7.50
PCB-1260 Peak 3	7.83	7.80	7.85
PCB-1260 Peak 4	8.69	8.67	8.72
PCB-1260 Peak 5	9.07	9.04	9.09
Tetrachloro-m-xylene	3.99	3.97	4.02
DCB Decachlorobiphenyl	10.42	10.40	10.45

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120014.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 12-Aug-2022 14:22:17 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 280-0113425-014
Operator ID: smp Instrument ID: SGC_P3
Sublist:

Method: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\PCB_P3.m
Limit Group: GCSV - 8082A - IS
Last Update: 15-Aug-2022 10:39:22 Calib Date: 12-Aug-2022 14:02:47
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120013.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
Process Host: CTX1649

First Level Reviewer: USP3 Date: 15-Aug-2022 10:15:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.208	3.207	0.001	134249875	100.0	100.0	
2	2.955	2.954	0.001	115978676	100.0	100.0	
						RPD = 0.00	
$ 14 Tetrachloro-m-xylene							
1	3.992	3.990	0.002	20392130	12.0	13.5	
2	3.842	3.844	-0.002	17875263	12.0	13.7	
						RPD = 1.25	
1 PCB-1016							
1	4.348	4.350	-0.002	7628771	250.0	262.8	
1	4.695	4.697	-0.002	14759942	250.0	264.8	
1	5.145	5.147	-0.002	29083824	250.0	255.9	
1	5.305	5.307	-0.002	12642135	250.0	258.6	
1	5.735	5.737	-0.002	13150220	250.0	246.4	
		Average of Peak Amounts =				257.7	
2	4.292	4.290	0.002	6580927	250.0	288.5	
2	4.665	4.664	0.001	12399163	250.0	261.8	
2	5.105	5.090	0.015	25826310	250.0	251.8	
2	5.238	5.240	-0.002	11349259	250.0	273.5	
2	5.725	5.724	0.001	8295707	250.0	254.7	
		Average of Peak Amounts =				266.1	
						RPD = 3.19	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12 PCB-1260							M
1	7.135	7.137	-0.002	16250273	250.0	276.3	
1	7.475	7.477	-0.002	25357655	250.0	272.0	
1	7.828	7.827	0.001	28118252	250.0	261.5	
1	8.688	8.690	-0.002	36218261	250.0	265.7	
1	9.065	9.064	0.001	19278842	250.0	269.6	
		Average of Peak Amounts =				269.0	
2	7.175	7.174	0.001	16037868	250.0	289.3	
2	7.435	7.434	0.001	18058300	250.0	267.9	
2	7.882	7.884	-0.002	16865100	250.0	245.4	M
2	8.712	8.710	0.002	33049163	250.0	269.8	
2	9.195	9.194	0.001	23441600	250.0	262.1	
		Average of Peak Amounts =				266.9	
						RPD = 0.79	
$ 15 DCB Decachlorobiphenyl							a
1	10.418	10.420	-0.002	15892092	12.0	13.5	a
2	10.582	10.584	-0.002	13662517	12.0	12.7	a
						RPD = 5.59	
19 1260 Res 1							
1		9.039			ND	ND	
16 1260 Res 2							
1	9.108	9.102	0.007	8848278	NR	NR	
18 1260 Res 3							
1	9.165	9.148	0.017	11598722	NR	NR	

QC Flag Legend

Processing Flags
- NR - Missing Quant Standard
- ND - Not Detected or Marked ND

Review Flags
- M - Manually Integrated
- a - User Assigned ID

Reagents:

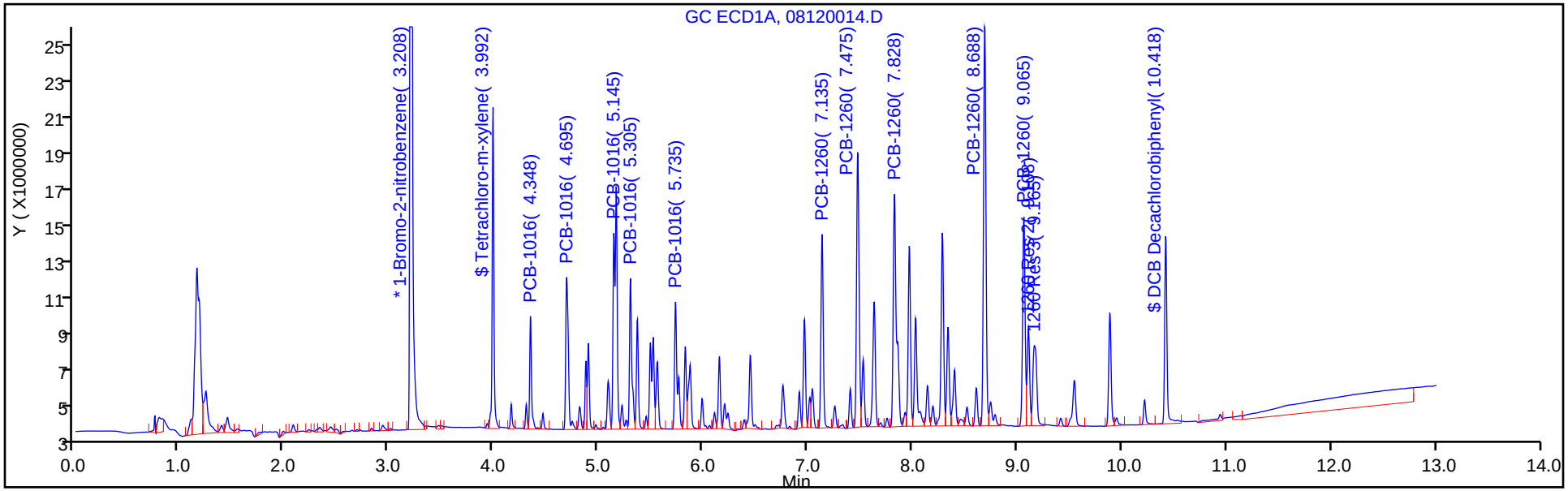
AR_1660_ICV_00024	Amount Added: 200.00	Units: uL	
BNB IS_00022	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 15-Aug-2022 10:39:47 Chrom Revision: 2.3 08-Aug-2022 16:03:06

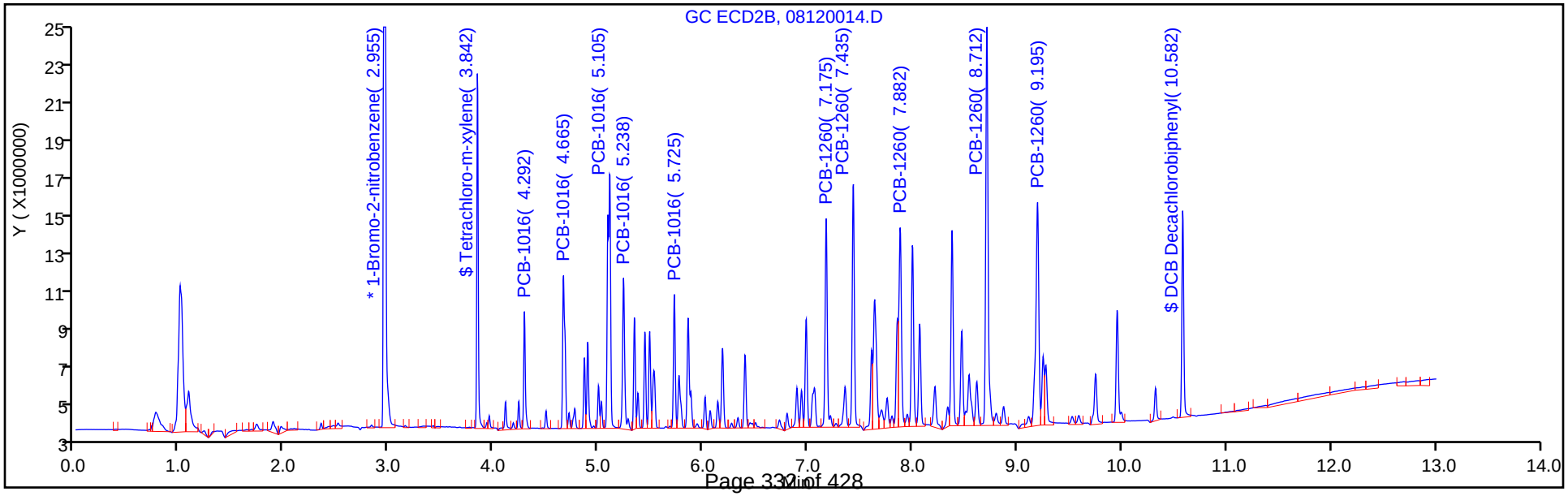
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120014.D				
Injection Date:	12-Aug-2022 14:22:17	Instrument ID:	SGC_P3	Operator ID:	smp
Lims ID:	ICV			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Denver

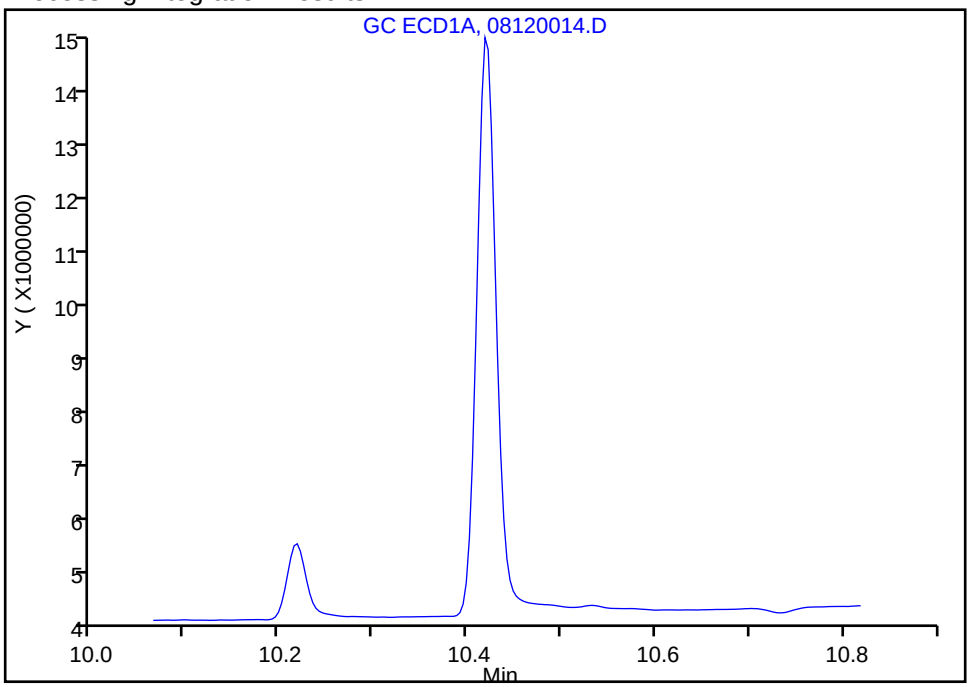
Data File:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120014.D				
Injection Date:	12-Aug-2022 14:22:17	Instrument ID:	SGC_P3		
Lims ID:	ICV				
Client ID:					
Operator ID:	smp	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		
Column:	CLP1 Pesticides Column 1 (0.32 mm)	Detector	GC ECD1A		

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

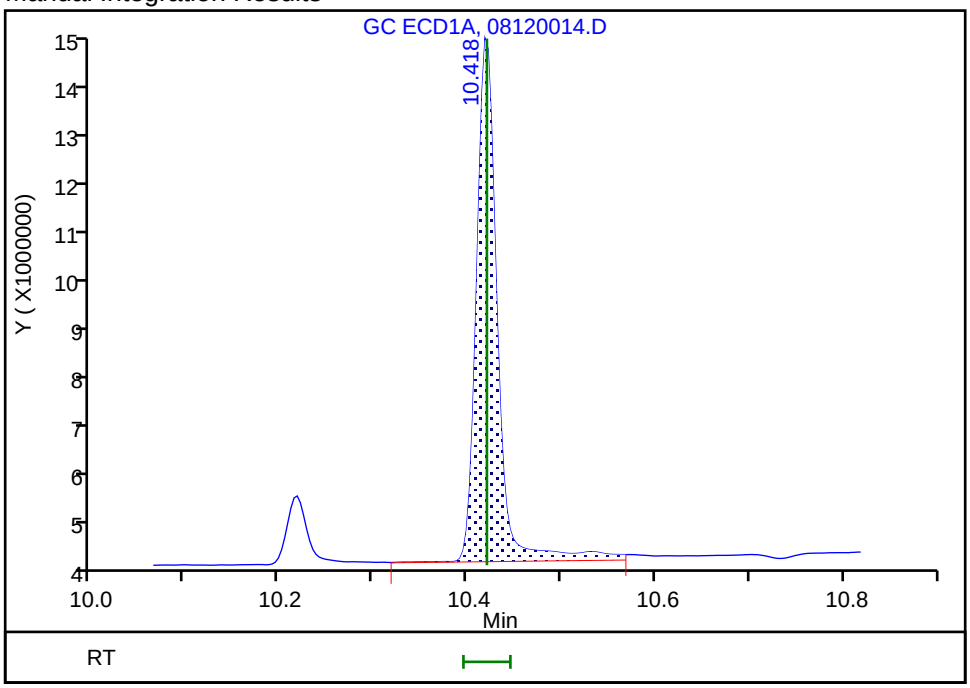
Processing Integration Results

Not Detected
Expected RT: 10.42



Manual Integration Results

RT: 10.42
Area: 15892092
Amount: 13.463565
Amount Units: ng/ml



Reviewer: USP3, 15-Aug-2022 10:15:08
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Lab Sample ID: ICV 280-583810/14 Calibration Date: 08/12/2022 14:22

Instrument ID: SGC_P3 Calib Start Date: 08/12/2022 12:05

GC Column: CLP2 ID: 0.32(mm) Calib End Date: 08/12/2022 14:02

Lab File ID: 08120014.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.0227		288	250	15.4	20.0
PCB-1016 Peak 2	Lin2		0.0428		262	250	4.7	20.0
PCB-1016 Peak 3	Lin2		0.0891		252	250	0.7	20.0
PCB-1016 Peak 4	Lin2		0.0391		273	250	9.4	20.0
PCB-1016 Peak 5	Lin2		0.0286		255	250	1.9	20.0
PCB-1260 Peak 1	Lin2		0.0553		289	250	15.7	20.0
PCB-1260 Peak 2	Lin2		0.0623		268	250	7.1	20.0
PCB-1260 Peak 3	Lin2		0.0582		245	250	-1.9	20.0
PCB-1260 Peak 4	Lin2		0.1140		270	250	7.9	20.0
PCB-1260 Peak 5	Lin2		0.0808		262	250	4.8	20.0
Tetrachloro-m-xylene	Lin2		1.284		13.7	12.0	14.3	20.0
DCB Decachlorobiphenyl	Ave	0.9253	0.9817		12.7	12.0	6.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Lab Sample ID: ICV 280-583810/14 Calibration Date: 08/12/2022 14:22

Instrument ID: SGC_P3 Calib Start Date: 08/12/2022 12:05

GC Column: CLP2 ID: 0.32(mm) Calib End Date: 08/12/2022 14:02

Lab File ID: 08120014.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.29	4.27	4.32
PCB-1016 Peak 2	4.67	4.64	4.69
PCB-1016 Peak 3	5.11	5.07	5.12
PCB-1016 Peak 4	5.24	5.22	5.27
PCB-1016 Peak 5	5.73	5.70	5.75
PCB-1260 Peak 1	7.18	7.15	7.20
PCB-1260 Peak 2	7.44	7.41	7.46
PCB-1260 Peak 3	7.88	7.86	7.91
PCB-1260 Peak 4	8.71	8.69	8.74
PCB-1260 Peak 5	9.20	9.17	9.22
Tetrachloro-m-xylene	3.84	3.82	3.87
DCB Decachlorobiphenyl	10.58	10.56	10.61

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120014.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 12-Aug-2022 14:22:17 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 280-0113425-014
Operator ID: smp Instrument ID: SGC_P3
Sublist:

Method: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\PCB_P3.m
Limit Group: GCSV - 8082A - IS
Last Update: 15-Aug-2022 10:39:22 Calib Date: 12-Aug-2022 14:02:47
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120013.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
Process Host: CTX1649

First Level Reviewer: USP3 Date: 15-Aug-2022 10:15:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.208	3.207	0.001	134249875	100.0	100.0	
2	2.955	2.954	0.001	115978676	100.0	100.0	
						RPD = 0.00	
$ 14 Tetrachloro-m-xylene							
1	3.992	3.990	0.002	20392130	12.0	13.5	
2	3.842	3.844	-0.002	17875263	12.0	13.7	
						RPD = 1.25	
1 PCB-1016							
1	4.348	4.350	-0.002	7628771	250.0	262.8	
1	4.695	4.697	-0.002	14759942	250.0	264.8	
1	5.145	5.147	-0.002	29083824	250.0	255.9	
1	5.305	5.307	-0.002	12642135	250.0	258.6	
1	5.735	5.737	-0.002	13150220	250.0	246.4	
		Average of Peak Amounts =				257.7	
2	4.292	4.290	0.002	6580927	250.0	288.5	
2	4.665	4.664	0.001	12399163	250.0	261.8	
2	5.105	5.090	0.015	25826310	250.0	251.8	
2	5.238	5.240	-0.002	11349259	250.0	273.5	
2	5.725	5.724	0.001	8295707	250.0	254.7	
		Average of Peak Amounts =				266.1	
						RPD = 3.19	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12 PCB-1260							M
1	7.135	7.137	-0.002	16250273	250.0	276.3	
1	7.475	7.477	-0.002	25357655	250.0	272.0	
1	7.828	7.827	0.001	28118252	250.0	261.5	
1	8.688	8.690	-0.002	36218261	250.0	265.7	
1	9.065	9.064	0.001	19278842	250.0	269.6	
		Average of Peak Amounts =				269.0	
2	7.175	7.174	0.001	16037868	250.0	289.3	
2	7.435	7.434	0.001	18058300	250.0	267.9	
2	7.882	7.884	-0.002	16865100	250.0	245.4	M
2	8.712	8.710	0.002	33049163	250.0	269.8	
2	9.195	9.194	0.001	23441600	250.0	262.1	
		Average of Peak Amounts =				266.9	
						RPD = 0.79	
$ 15 DCB Decachlorobiphenyl							a
1	10.418	10.420	-0.002	15892092	12.0	13.5	a
2	10.582	10.584	-0.002	13662517	12.0	12.7	a
						RPD = 5.59	
19 1260 Res 1							
1		9.039			ND	ND	
16 1260 Res 2							
1	9.108	9.102	0.007	8848278	NR	NR	
18 1260 Res 3							
1	9.165	9.148	0.017	11598722	NR	NR	

QC Flag Legend

Processing Flags
- NR - Missing Quant Standard
- ND - Not Detected or Marked ND

Review Flags
- M - Manually Integrated
- a - User Assigned ID

Reagents:

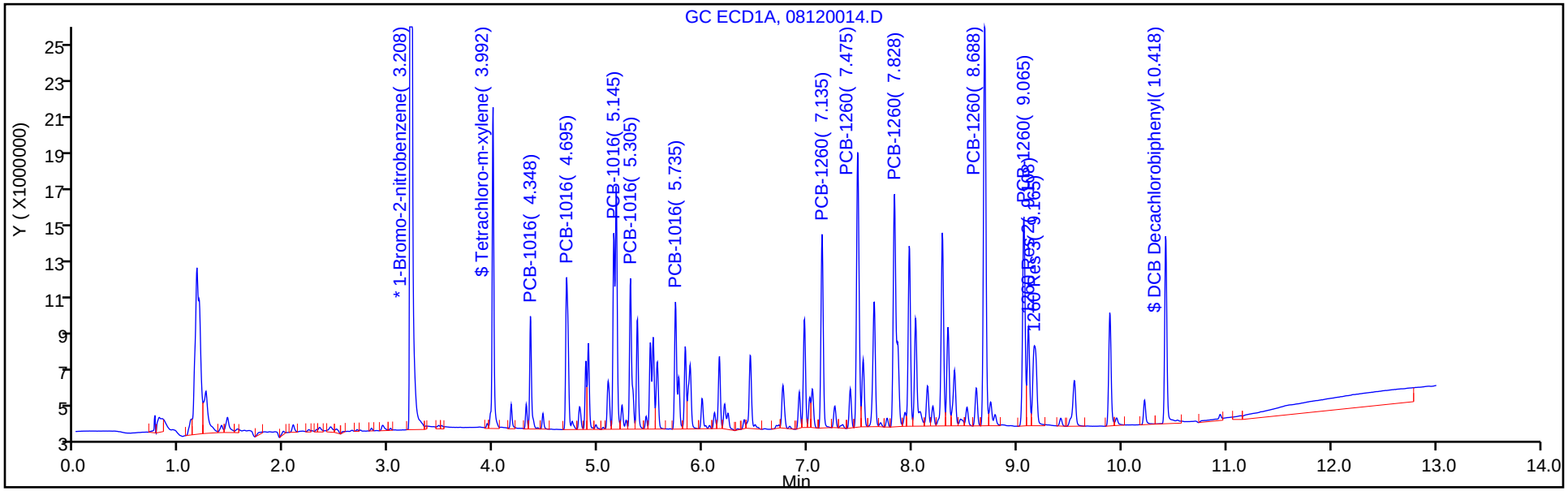
AR_1660_ICV_00024	Amount Added: 200.00	Units: uL	
BNB IS_00022	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 15-Aug-2022 10:39:47 Chrom Revision: 2.3 08-Aug-2022 16:03:06

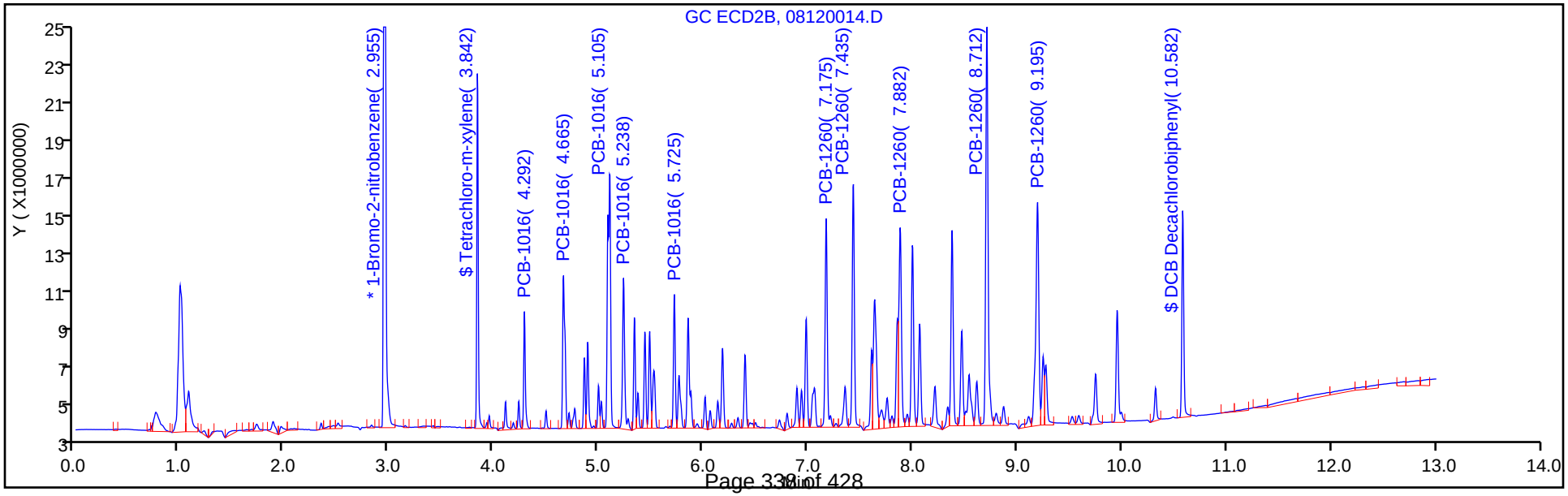
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120014.D				
Injection Date:	12-Aug-2022 14:22:17	Instrument ID:	SGC_P3	Operator ID:	smp
Lims ID:	ICV			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2

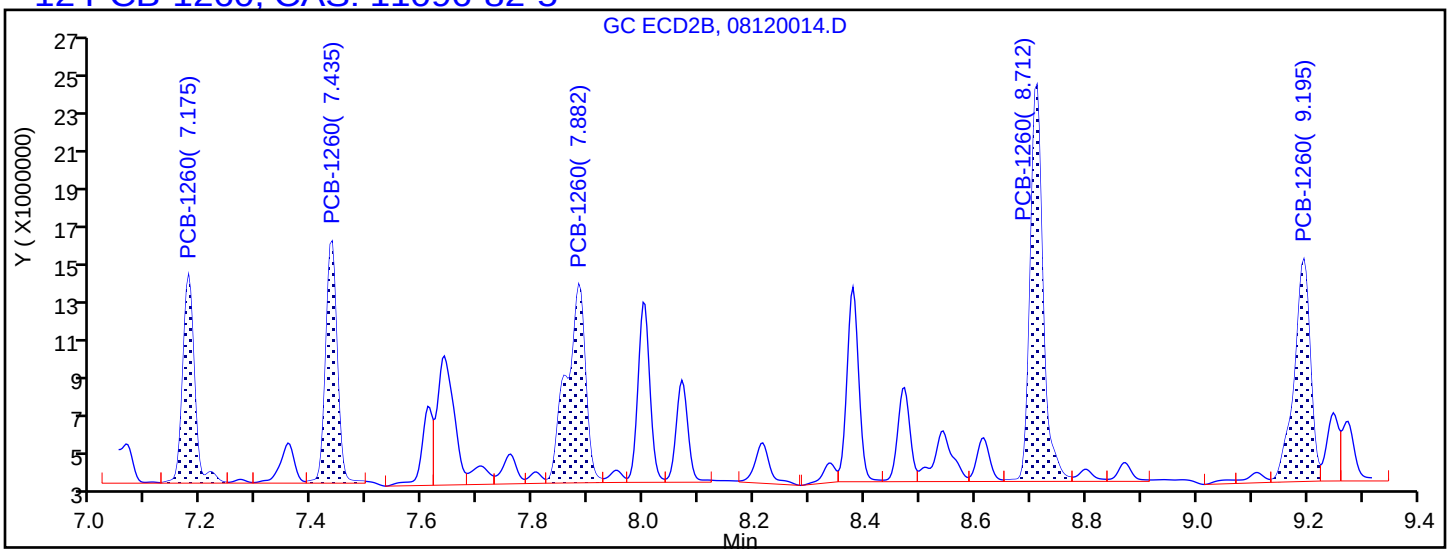


Report Date: 15-Aug-2022 10:39:48 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Denver

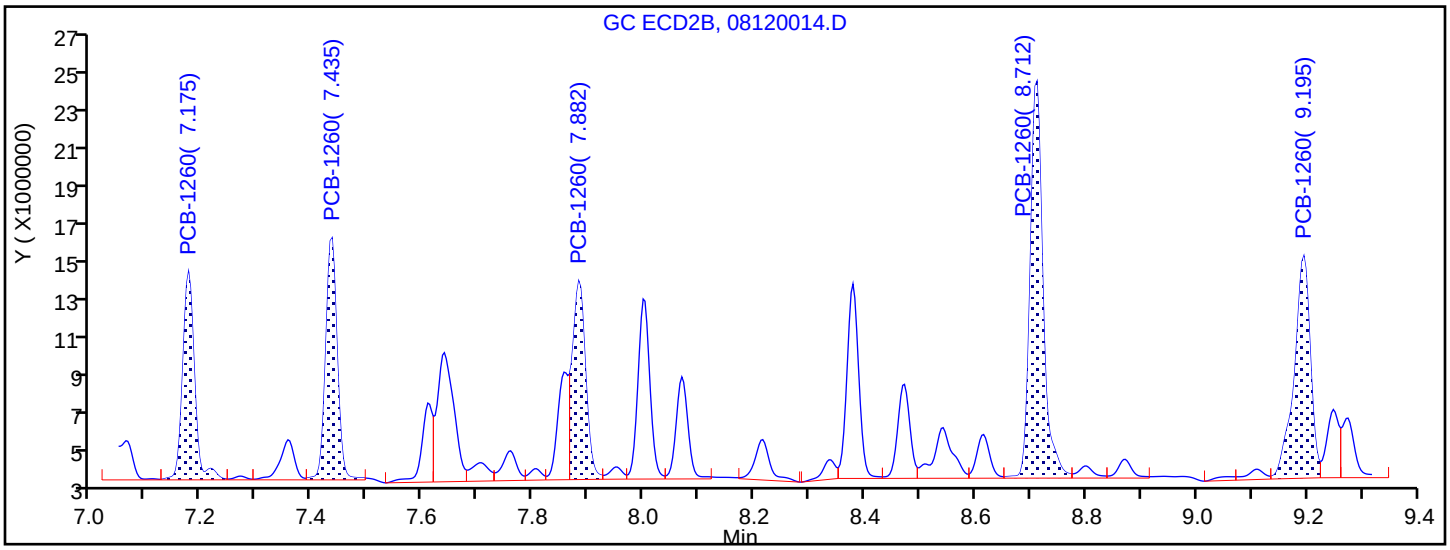
Data File: \\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120014.D
Injection Date: 12-Aug-2022 14:22:17 Instrument ID: SGC_P3
Lims ID: ICV
Client ID:
Operator ID: smp ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCB_P3 Limit Group: GCSV - 8082A - IS
Column: CLP2 Pesticides Column 2 (0.32 mm) Detector GC ECD2B

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

7.175	Response = 16037868
7.435	Response = 18058300
7.882	Response = 24699321
8.712	Response = 33049163
9.195	Response = 23441600



Manual Integration Results

7.175	Response = 16037868	
7.435	Response = 18058300	
7.882	Response = 16865100	M
8.712	Response = 33049163	
9.195	Response = 23441600	

Reviewer: USP3, 15-Aug-2022 10:25:35
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Denver

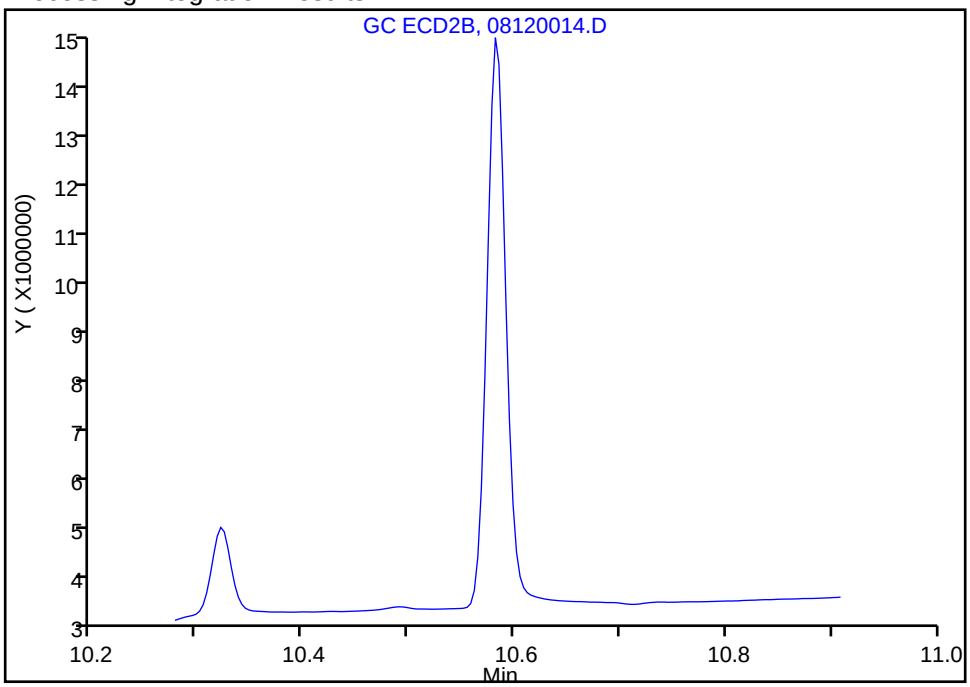
Data File:	\\chromfs\Denver\ChromData\SGC_P3\20220812-113425.b\08120014.D				
Injection Date:	12-Aug-2022 14:22:17	Instrument ID:	SGC_P3		
Lims ID:	ICV				
Client ID:					
Operator ID:	smp	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		
Column:	CLP2 Pesticides Column 2 (0.32 mm)	Detector	GC ECD2B		

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

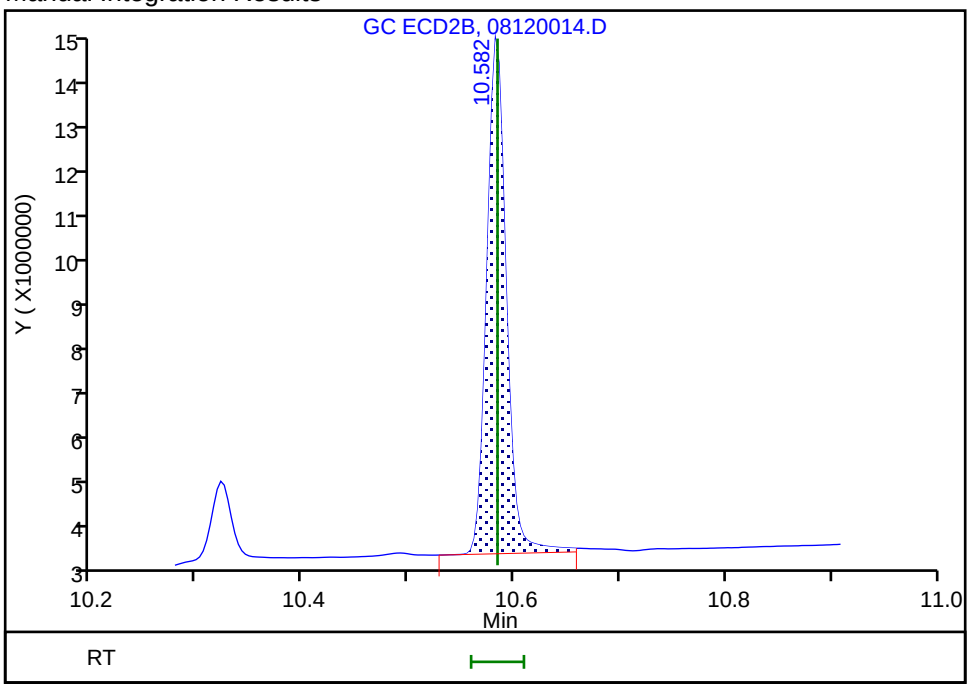
Processing Integration Results

Not Detected
Expected RT: 10.58



Manual Integration Results

RT: 10.58
Area: 13662517
Amount: 12.731503
Amount Units: ng/ml



Reviewer: USP3, 15-Aug-2022 10:15:12
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Lab Sample ID: CCVIS 280-591125/3 Calibration Date: 10/25/2022 10:17

Instrument ID: SGC_P3 Calib Start Date: 08/12/2022 12:05

GC Column: CLP1 ID: 0.32(mm) Calib End Date: 08/12/2022 14:02

Lab File ID: 10250003.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0216	0.0195		452	500	-9.7	20.0
PCB-1016 Peak 2	Lin2		0.0387		473	500	-5.4	20.0
PCB-1016 Peak 3	Lin2		0.0796		478	500	-4.5	20.0
PCB-1016 Peak 4	Lin2		0.0343		478	500	-4.3	20.0
PCB-1016 Peak 5	Ave	0.0398	0.0354		445	500	-11.0	20.0
PCB-1260 Peak 1	Lin2		0.0471		547	500	9.3	20.0
PCB-1260 Peak 2	Lin2		0.0724		536	500	7.2	20.0
PCB-1260 Peak 3	Lin2		0.0825		524	500	4.9	20.0
PCB-1260 Peak 4	Lin2		0.1034		519	500	3.9	20.0
PCB-1260 Peak 5	Lin2		0.0546		522	500	4.4	20.0
Tetrachloro-m-xylene	Lin2		1.103		24.9	25.0	-0.4	20.0
DCB Decachlorobiphenyl	Lin2		0.9249		26.5	25.0	5.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Lab Sample ID: CCVIS 280-591125/3 Calibration Date: 10/25/2022 10:17

Instrument ID: SGC_P3 Calib Start Date: 08/12/2022 12:05

GC Column: CLP1 ID: 0.32(mm) Calib End Date: 08/12/2022 14:02

Lab File ID: 10250003.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.34	4.31	4.36
PCB-1016 Peak 2	4.68	4.66	4.71
PCB-1016 Peak 3	5.15	5.12	5.17
PCB-1016 Peak 4	5.29	5.26	5.31
PCB-1016 Peak 5	5.72	5.70	5.75
PCB-1260 Peak 1	7.12	7.09	7.14
PCB-1260 Peak 2	7.46	7.43	7.48
PCB-1260 Peak 3	7.81	7.78	7.83
PCB-1260 Peak 4	8.67	8.64	8.69
PCB-1260 Peak 5	9.04	9.02	9.07
Tetrachloro-m-xylene	3.98	3.95	4.00
DCB Decachlorobiphenyl	10.40	10.38	10.43

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250003.D
Lims ID: CCVIS 1660
Client ID:
Sample Type: CCVIS
Inject. Date: 25-Oct-2022 10:17:40 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS 1660
Misc. Info.: 280-0115461-003
Operator ID: SMP Instrument ID: SGC_P3
Sublist: chrom-PCB_P3*sub1

Method: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\PCB_P3.m
Limit Group: GCSV - 8082A - IS
Last Update: 25-Oct-2022 16:42:31 Calib Date: 25-Oct-2022 11:31:41
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
Process Host: CTX1669

First Level Reviewer: USP3 Date: 25-Oct-2022 13:05:25

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.194	3.194	0.000	146266525	100.0	100.0	
2	2.946	2.946	0.000	137350370	100.0	100.0	
						RPD = 0.00	
$ 14 Tetrachloro-m-xylene							
1	3.977	3.977	0.000	40340918	25.0	24.9	
2	3.833	3.833	0.000	39644387	25.0	26.1	
						RPD = 4.71	
1 PCB-1016							M
1	4.337	4.337	0.000	14278918	500.0	451.5	
1	4.680	4.680	0.000	28292417	500.0	472.8	
1	5.147	5.147	0.000	58210085	500.0	477.6	
1	5.287	5.287	0.000	25087991	500.0	478.4	
1	5.720	5.720	0.000	25868760	500.0	444.9	
		Average of Peak Amounts =				465.0	
2	4.280	4.280	0.000	13865894	500.0	535.2	
2	4.653	4.653	0.000	26742872	500.0	492.2	
2	5.093	5.093	0.000	56681376	500.0	474.3	M
2	5.226	5.226	0.000	22725410	500.0	469.1	
2	5.710	5.710	0.000	17958207	500.0	474.8	
		Average of Peak Amounts =				489.1	
						RPD = 5.04	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12 PCB-1260							M
1	7.117	7.117	0.000	34422887	500.0	546.7	
1	7.457	7.457	0.000	52948738	500.0	536.1	M
1	7.807	7.807	0.000	60341579	500.0	524.4	
1	8.667	8.667	0.000	75632281	500.0	519.5	M
1	9.040	9.040	0.000	39957587	500.0	521.8	
		Average of Peak Amounts =				529.7	
2	7.156	7.156	0.000	33215760	500.0	519.7	
2	7.416	7.416	0.000	40019158	500.0	513.5	
2	7.863	7.863	0.000	40683859	500.0	512.8	
2	8.690	8.690	0.000	72955501	500.0	514.8	
2	9.173	9.173	0.000	52888656	500.0	513.1	
		Average of Peak Amounts =				514.8	
						RPD = 2.86	
$ 15 DCB Decachlorobiphenyl							
1	10.400	10.400	0.000	33818705	25.0	26.5	
2	10.566	10.566	0.000	32563802	25.0	25.6	
						RPD = 3.24	
19 1260 Res 1							
1	9.040	9.040	0.000	39957587	NR	NR	
16 1260 Res 2							
1	9.087	9.087	0.000	19496536	NR	NR	
18 1260 Res 3							
1	9.144	9.144	0.000	25582537	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
M - Manually Integrated

Reagents:

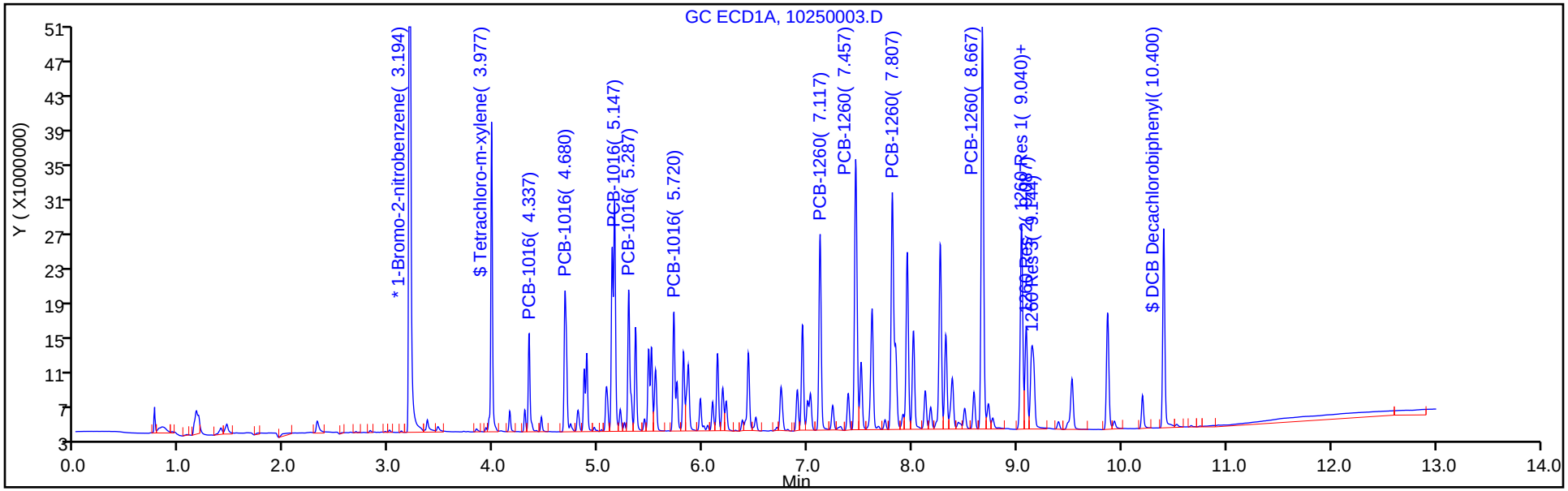
AR_1660_L7_00042 Amount Added: 100.00 Units: uL
BNB IS_00023 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 25-Oct-2022 16:42:31 Chrom Revision: 2.3 28-Sep-2022 12:57:42

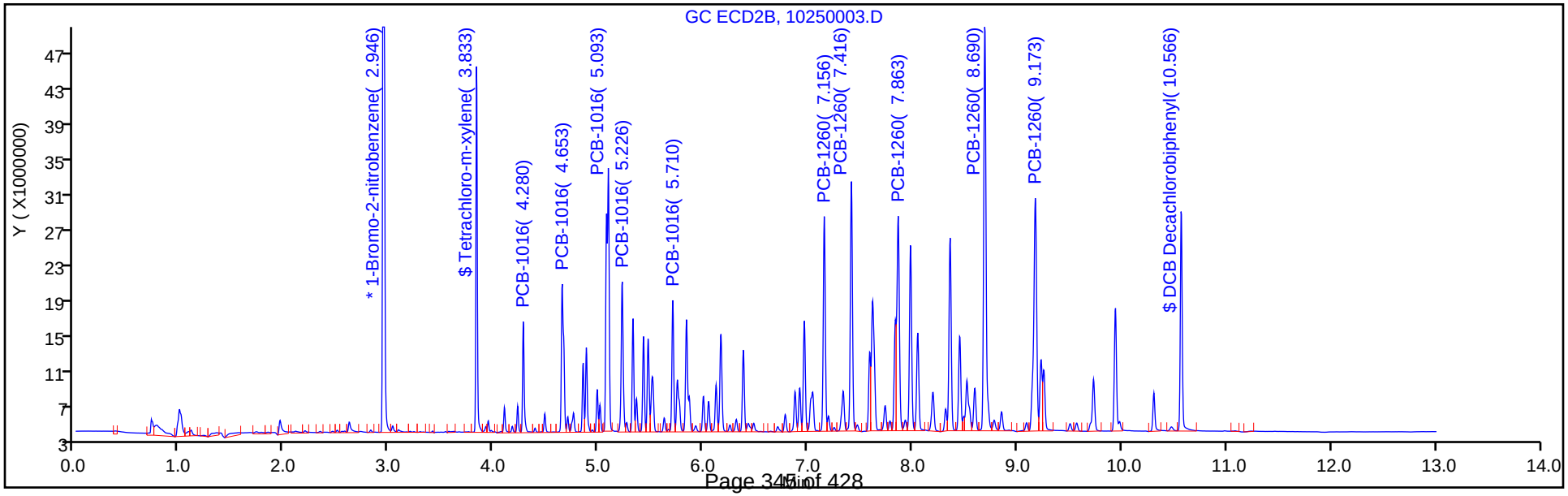
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250003.D				
Injection Date:	25-Oct-2022 10:17:40	Instrument ID:	SGC_P3	Operator ID:	SMP
Lims ID:	CCVIS 1660			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2

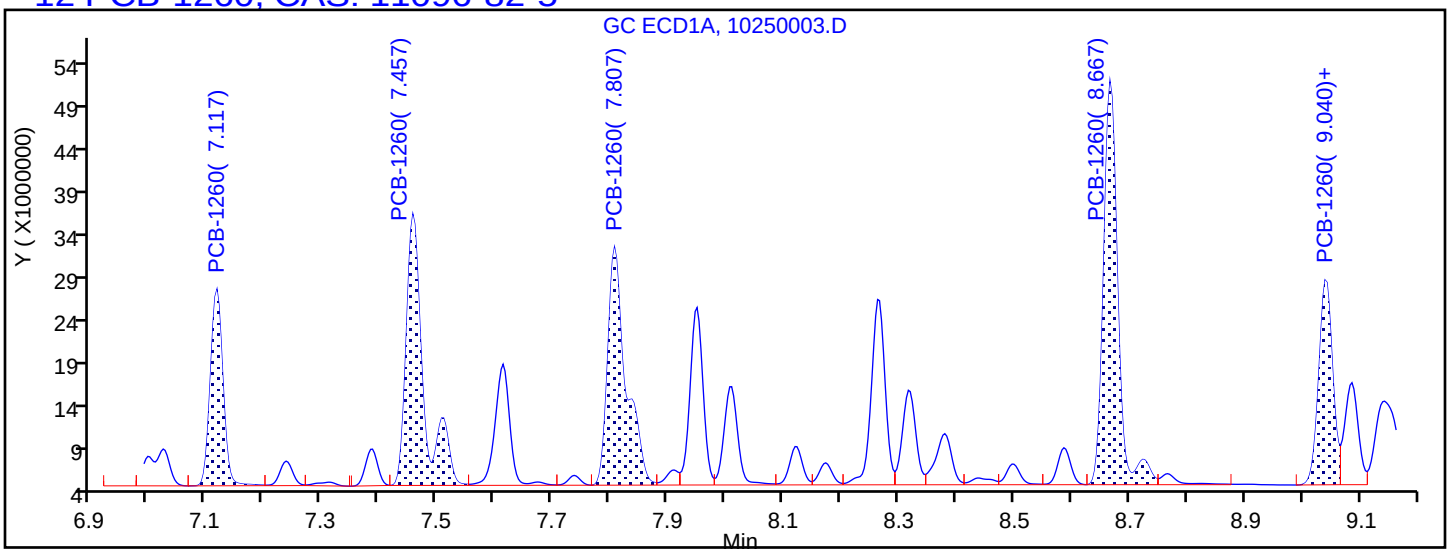


Report Date: 25-Oct-2022 16:42:32 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Denver

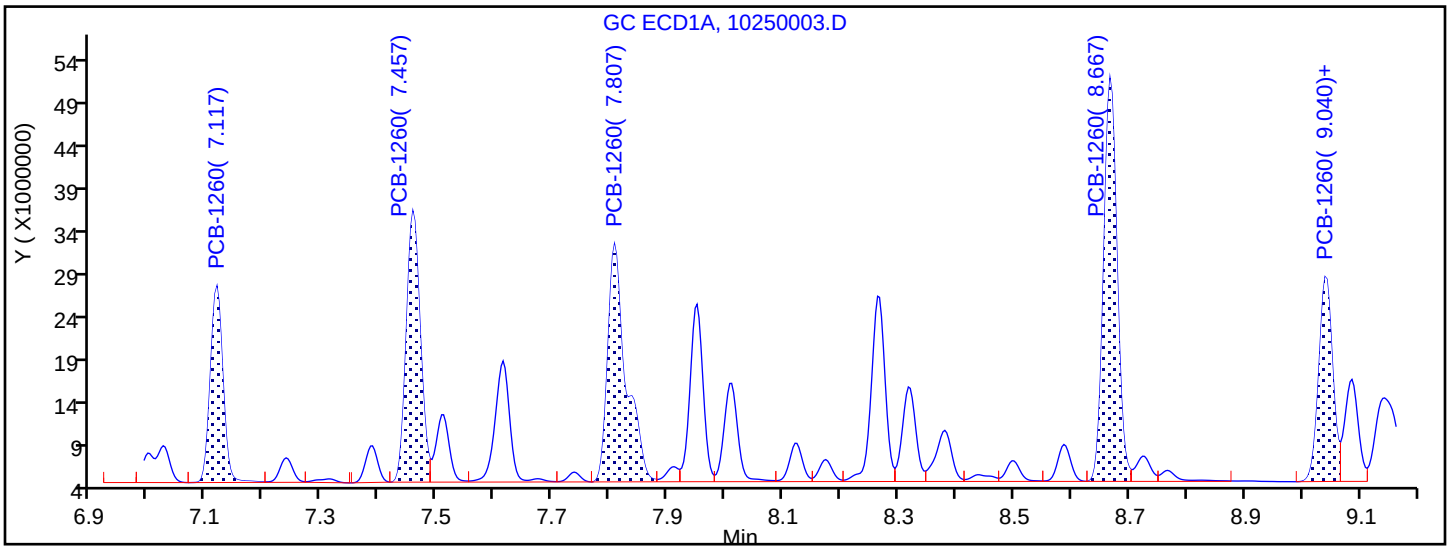
Data File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250003.D
Injection Date: 25-Oct-2022 10:17:40 Instrument ID: SGC_P3
Lims ID: CCVIS 1660
Client ID:
Operator ID: SMP ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCB_P3 Limit Group: GCSV - 8082A - IS
Column: CLP1 Pesticides Column 1 (0.32 mm) Detector GC ECD1A

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

7.117	Response = 34422887
7.457	Response = 65767441
7.807	Response = 60341579
8.667	Response = 80914468
9.040	Response = 39957587



Manual Integration Results

7.117	Response = 34422887	
7.457	Response = 52948738	M
7.807	Response = 60341579	
8.667	Response = 75632281	M
9.040	Response = 39957587	

Reviewer: USP3, 25-Oct-2022 10:59:11
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Lab Sample ID: CCVIS 280-591125/3 Calibration Date: 10/25/2022 10:17

Instrument ID: SGC_P3 Calib Start Date: 08/12/2022 12:05

GC Column: CLP2 ID: 0.32(mm) Calib End Date: 08/12/2022 14:02

Lab File ID: 10250003.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.0202		535	500	7.0	20.0
PCB-1016 Peak 2	Lin2		0.0389		492	500	-1.6	20.0
PCB-1016 Peak 3	Lin2		0.0825		474	500	-5.1	20.0
PCB-1016 Peak 4	Lin2		0.0331		469	500	-6.2	20.0
PCB-1016 Peak 5	Lin2		0.0261		475	500	-5.0	20.0
PCB-1260 Peak 1	Lin2		0.0484		520	500	3.9	20.0
PCB-1260 Peak 2	Lin2		0.0583		513	500	2.7	20.0
PCB-1260 Peak 3	Lin2		0.0592		513	500	2.6	20.0
PCB-1260 Peak 4	Lin2		0.1062		515	500	3.0	20.0
PCB-1260 Peak 5	Lin2		0.0770		513	500	2.6	20.0
Tetrachloro-m-xylene	Lin2		1.155		26.1	25.0	4.4	20.0
DCB Decachlorobiphenyl	Ave	0.9253	0.9483		25.6	25.0	2.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Lab Sample ID: CCVIS 280-591125/3 Calibration Date: 10/25/2022 10:17

Instrument ID: SGC_P3 Calib Start Date: 08/12/2022 12:05

GC Column: CLP2 ID: 0.32(mm) Calib End Date: 08/12/2022 14:02

Lab File ID: 10250003.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.28	4.26	4.31
PCB-1016 Peak 2	4.65	4.63	4.68
PCB-1016 Peak 3	5.09	5.07	5.12
PCB-1016 Peak 4	5.23	5.20	5.25
PCB-1016 Peak 5	5.71	5.69	5.74
PCB-1260 Peak 1	7.16	7.13	7.18
PCB-1260 Peak 2	7.42	7.39	7.44
PCB-1260 Peak 3	7.86	7.84	7.89
PCB-1260 Peak 4	8.69	8.67	8.72
PCB-1260 Peak 5	9.17	9.15	9.20
Tetrachloro-m-xylene	3.83	3.81	3.86
DCB Decachlorobiphenyl	10.57	10.54	10.59

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250003.D
Lims ID: CCVIS 1660
Client ID:
Sample Type: CCVIS
Inject. Date: 25-Oct-2022 10:17:40 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS 1660
Misc. Info.: 280-0115461-003
Operator ID: SMP Instrument ID: SGC_P3
Sublist: chrom-PCB_P3*sub1

Method: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\PCB_P3.m
Limit Group: GCSV - 8082A - IS
Last Update: 25-Oct-2022 16:42:31 Calib Date: 25-Oct-2022 11:31:41
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
Process Host: CTX1669

First Level Reviewer: USP3 Date: 25-Oct-2022 13:05:25

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.194	3.194	0.000	146266525	100.0	100.0	
2	2.946	2.946	0.000	137350370	100.0	100.0	
						RPD = 0.00	
$ 14 Tetrachloro-m-xylene							
1	3.977	3.977	0.000	40340918	25.0	24.9	
2	3.833	3.833	0.000	39644387	25.0	26.1	
						RPD = 4.71	
1 PCB-1016							M
1	4.337	4.337	0.000	14278918	500.0	451.5	
1	4.680	4.680	0.000	28292417	500.0	472.8	
1	5.147	5.147	0.000	58210085	500.0	477.6	
1	5.287	5.287	0.000	25087991	500.0	478.4	
1	5.720	5.720	0.000	25868760	500.0	444.9	
		Average of Peak Amounts =				465.0	
2	4.280	4.280	0.000	13865894	500.0	535.2	
2	4.653	4.653	0.000	26742872	500.0	492.2	
2	5.093	5.093	0.000	56681376	500.0	474.3	M
2	5.226	5.226	0.000	22725410	500.0	469.1	
2	5.710	5.710	0.000	17958207	500.0	474.8	
		Average of Peak Amounts =				489.1	
						RPD = 5.04	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12 PCB-1260							M
1	7.117	7.117	0.000	34422887	500.0	546.7	
1	7.457	7.457	0.000	52948738	500.0	536.1	M
1	7.807	7.807	0.000	60341579	500.0	524.4	
1	8.667	8.667	0.000	75632281	500.0	519.5	M
1	9.040	9.040	0.000	39957587	500.0	521.8	
		Average of Peak Amounts =				529.7	
2	7.156	7.156	0.000	33215760	500.0	519.7	
2	7.416	7.416	0.000	40019158	500.0	513.5	
2	7.863	7.863	0.000	40683859	500.0	512.8	
2	8.690	8.690	0.000	72955501	500.0	514.8	
2	9.173	9.173	0.000	52888656	500.0	513.1	
		Average of Peak Amounts =				514.8	
						RPD = 2.86	
$ 15 DCB Decachlorobiphenyl							
1	10.400	10.400	0.000	33818705	25.0	26.5	
2	10.566	10.566	0.000	32563802	25.0	25.6	
						RPD = 3.24	
19 1260 Res 1							
1	9.040	9.040	0.000	39957587	NR	NR	
16 1260 Res 2							
1	9.087	9.087	0.000	19496536	NR	NR	
18 1260 Res 3							
1	9.144	9.144	0.000	25582537	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
M - Manually Integrated

Reagents:

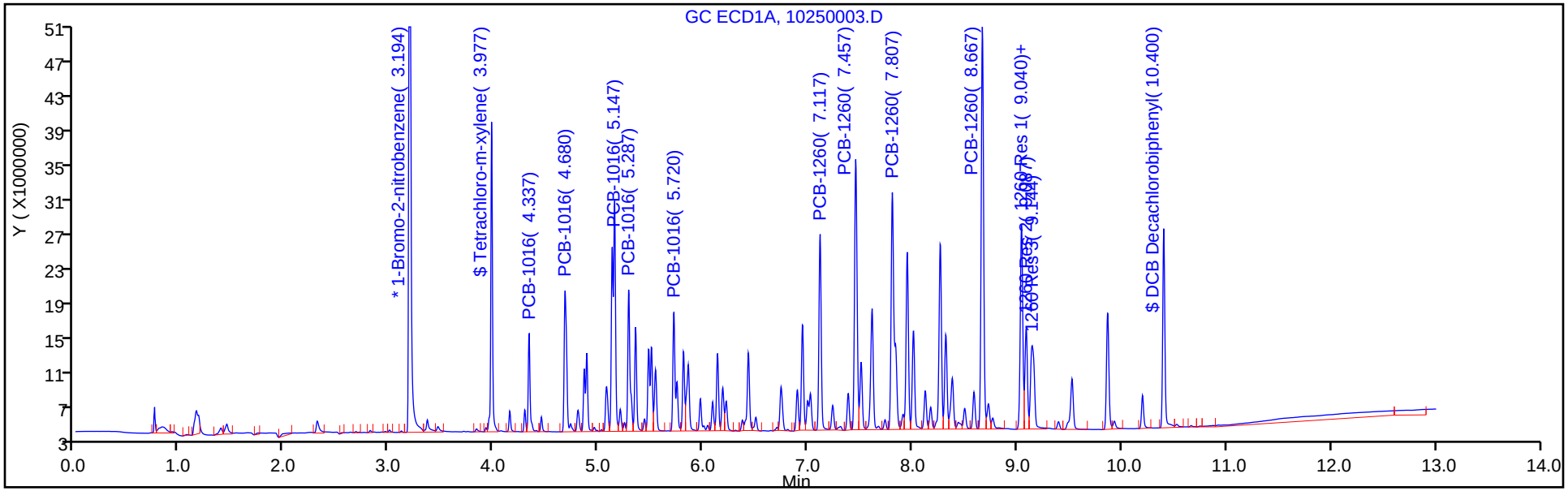
AR_1660_L7_00042	Amount Added: 100.00	Units: uL	
BNB IS_00023	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 25-Oct-2022 16:42:32 Chrom Revision: 2.3 28-Sep-2022 12:57:42

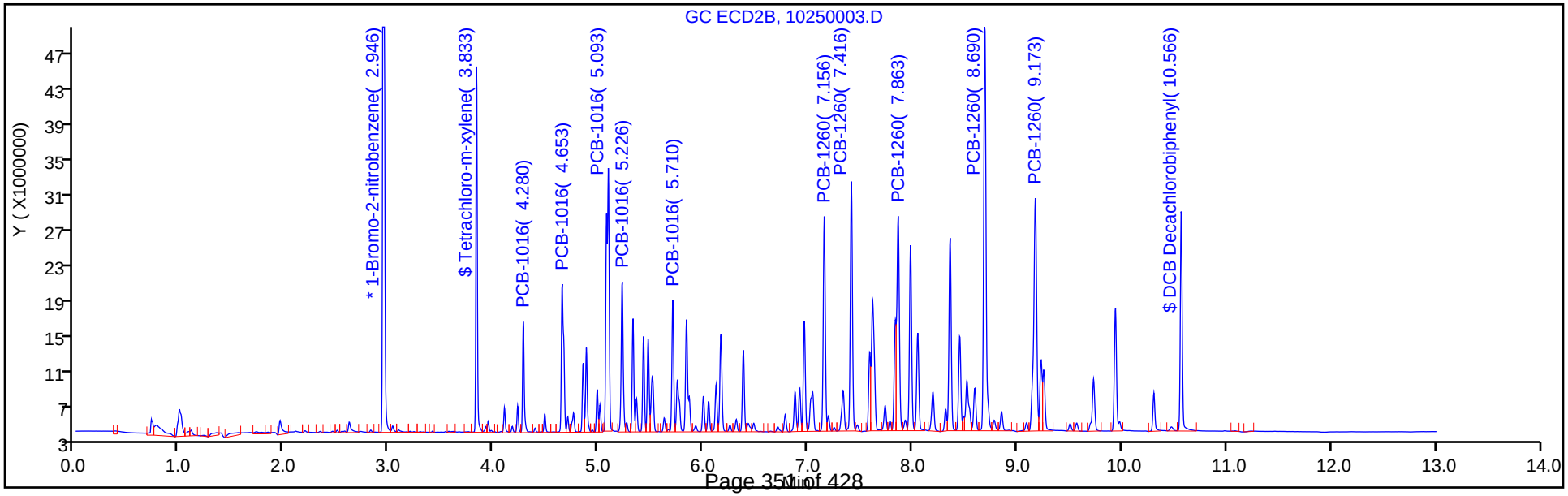
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250003.D				
Injection Date:	25-Oct-2022 10:17:40	Instrument ID:	SGC_P3	Operator ID:	SMP
Lims ID:	CCVIS 1660			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2

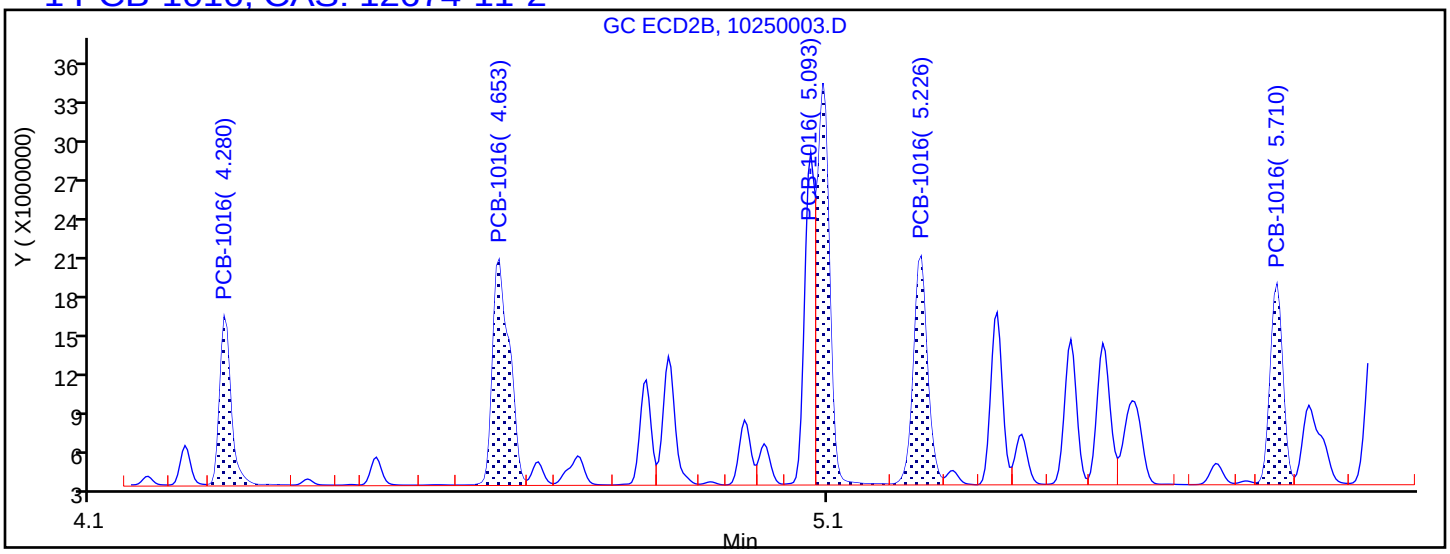


Report Date: 25-Oct-2022 16:42:32 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Denver

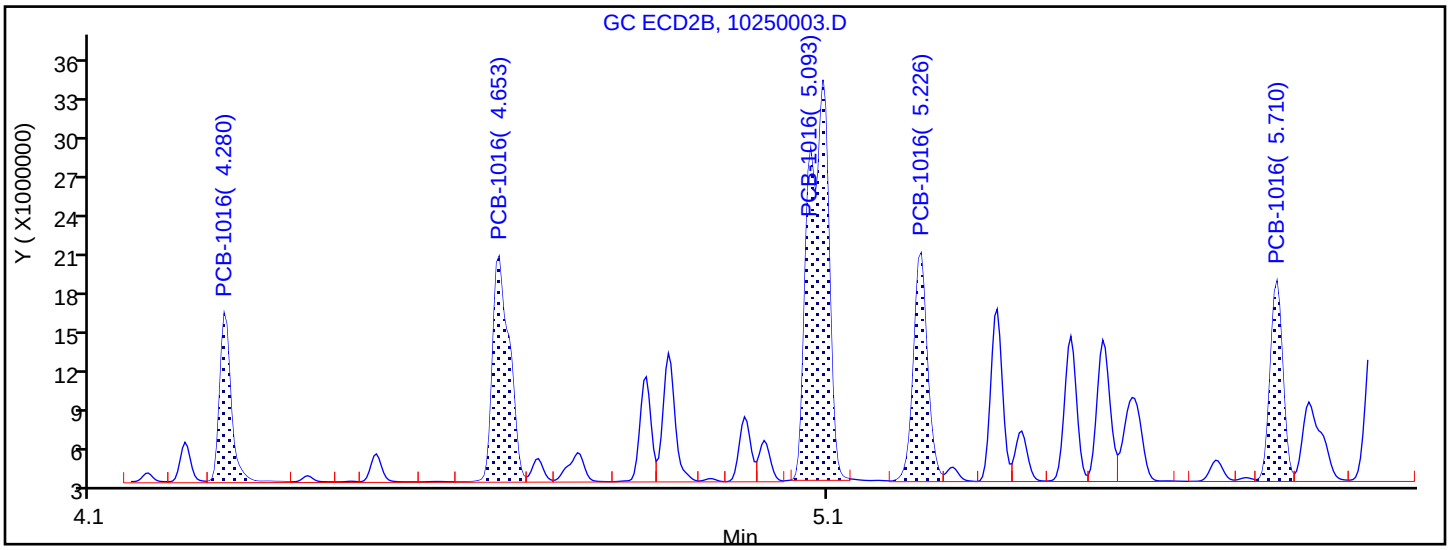
Data File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250003.D
Injection Date: 25-Oct-2022 10:17:40 Instrument ID: SGC_P3
Lims ID: CCVIS 1660
Client ID:
Operator ID: SMP ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCB_P3 Limit Group: GCSV - 8082A - IS
Column: CLP2 Pesticides Column 2 (0.32 mm) Detector GC ECD2B

1 PCB-1016, CAS: 12674-11-2



Processing Integration Results

4.280	Response = 13865894
4.653	Response = 26742872
5.093	Response = 34020078
5.226	Response = 22725410
5.710	Response = 17958207



Manual Integration Results

4.280	Response = 13865894	
4.653	Response = 26742872	
5.093	Response = 56681376	M
5.226	Response = 22725410	
5.710	Response = 17958207	

Reviewer: USP3, 25-Oct-2022 10:58:59
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Lab Sample ID: CCV 280-591125/15 Calibration Date: 10/25/2022 14:03

Instrument ID: SGC_P3 Calib Start Date: 08/12/2022 12:05

GC Column: CLP1 ID: 0.32(mm) Calib End Date: 08/12/2022 14:02

Lab File ID: 10250015.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0216	0.0219		507	500	1.3	20.0
PCB-1016 Peak 2	Lin2		0.0431		528	500	5.6	20.0
PCB-1016 Peak 3	Lin2		0.0885		532	500	6.4	20.0
PCB-1016 Peak 4	Lin2		0.0379		530	500	5.9	20.0
PCB-1016 Peak 5	Ave	0.0398	0.0394		496	500	-0.8	20.0
PCB-1260 Peak 1	Lin2		0.0525		611	500	22.3*	20.0
PCB-1260 Peak 2	Lin2		0.0805		598	500	19.6	20.0
PCB-1260 Peak 3	Lin2		0.0911		580	500	16.0	20.0
PCB-1260 Peak 4	Lin2		0.1140		574	500	14.8	20.0
PCB-1260 Peak 5	Lin2		0.0591		566	500	13.1	20.0
Tetrachloro-m-xylene	Lin2		1.243		28.1	25.0	12.4	20.0
DCB Decachlorobiphenyl	Lin2		1.038		29.7	25.0	18.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Lab Sample ID: CCV 280-591125/15 Calibration Date: 10/25/2022 14:03

Instrument ID: SGC_P3 Calib Start Date: 08/12/2022 12:05

GC Column: CLP1 ID: 0.32(mm) Calib End Date: 08/12/2022 14:02

Lab File ID: 10250015.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.34	4.31	4.36
PCB-1016 Peak 2	4.68	4.66	4.71
PCB-1016 Peak 3	5.15	5.12	5.17
PCB-1016 Peak 4	5.29	5.26	5.31
PCB-1016 Peak 5	5.72	5.70	5.75
PCB-1260 Peak 1	7.12	7.09	7.14
PCB-1260 Peak 2	7.46	7.43	7.48
PCB-1260 Peak 3	7.81	7.78	7.83
PCB-1260 Peak 4	8.67	8.64	8.69
PCB-1260 Peak 5	9.04	9.02	9.07
Tetrachloro-m-xylene	3.98	3.95	4.00
DCB Decachlorobiphenyl	10.40	10.38	10.43

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250015.D
Lims ID: CCV 1660
Client ID:
Sample Type: CCV
Inject. Date: 25-Oct-2022 14:03:35 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCV 1660
Misc. Info.: 280-0115461-015
Operator ID: SMP Instrument ID: SGC_P3
Sublist: chrom-PCB_P3*sub1

Method: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\PCB_P3.m
Limit Group: GCSV - 8082A - IS
Last Update: 25-Oct-2022 16:42:27 Calib Date: 25-Oct-2022 11:31:41
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
Process Host: CTX1669

First Level Reviewer: USP3 Date: 25-Oct-2022 16:36:52

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.196	3.195	0.001	141011769	100.0	100.0	
2	2.945	2.948	-0.003	131613129	100.0	100.0	
						RPD = 0.00	
$ 14 Tetrachloro-m-xylene							
1	3.979	3.977	0.002	43830925	25.0	28.1	
2	3.835	3.833	0.002	42649117	25.0	29.4	
						RPD = 4.36	
1 PCB-1016							M
1	4.336	4.337	-0.001	15444184	500.0	506.6	
1	4.682	4.680	0.002	30408881	500.0	528.2	
1	5.152	5.147	0.005	62402049	500.0	532.0	
1	5.289	5.287	0.002	26724421	500.0	529.5	
1	5.719	5.720	-0.001	27796038	500.0	495.8	
		Average of Peak Amounts =				518.4	
2	4.282	4.280	0.002	14323504	500.0	579.1	
2	4.652	4.653	-0.001	28625472	500.0	552.0	
2	5.095	5.093	0.002	61351383	500.0	536.9	M
2	5.225	5.226	-0.001	24191573	500.0	522.3	
2	5.708	5.710	-0.002	19173741	500.0	530.3	
		Average of Peak Amounts =				544.1	
						RPD = 4.83	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12 PCB-1260							
1	7.119	7.117	0.002	37042437	500.0	611.4	
1	7.459	7.457	0.002	56784678	500.0	598.2	
1	7.809	7.807	0.002	64250966	500.0	580.2	
1	8.669	8.667	0.002	80390071	500.0	573.9	
1	9.042	9.040	0.002	41700752	500.0	565.7	
		Average of Peak Amounts =				585.9	
2	7.158	7.156	0.002	36045183	500.0	591.0	
2	7.418	7.416	0.002	43027937	500.0	577.9	
2	7.865	7.863	0.002	43046150	500.0	567.5	
2	8.692	8.690	0.002	77822865	500.0	574.6	
2	9.175	9.173	0.002	55897717	500.0	567.5	
		Average of Peak Amounts =				575.7	
						RPD = 1.75	
$ 15 DCB Decachlorobiphenyl							
1	10.399	10.400	-0.001	36589862	25.0	29.7	
2	10.568	10.566	0.002	34564255	25.0	28.4	
						RPD = 4.62	
S 8 Polychlorinated biphenyls, Total							
1						1104.3	
2						1119.8	
						RPD = 1.39	
19 1260 Res 1							
1	9.042	9.040	0.002	41700752	NR	NR	
16 1260 Res 2							
1	9.086	9.087	-0.002	21317261	NR	NR	
18 1260 Res 3							
1	9.142	9.144	-0.002	27218051	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

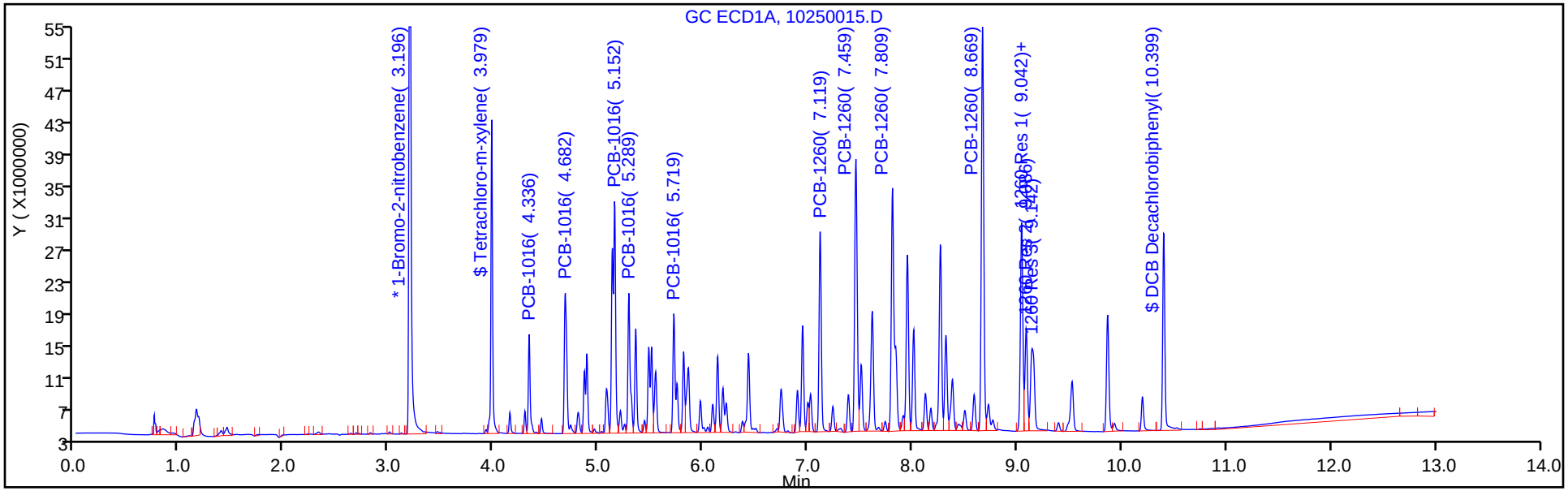
AR_1660_L7_00042	Amount Added: 100.00	Units: uL	
BNB IS_00023	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 25-Oct-2022 16:42:27 Chrom Revision: 2.3 28-Sep-2022 12:57:42

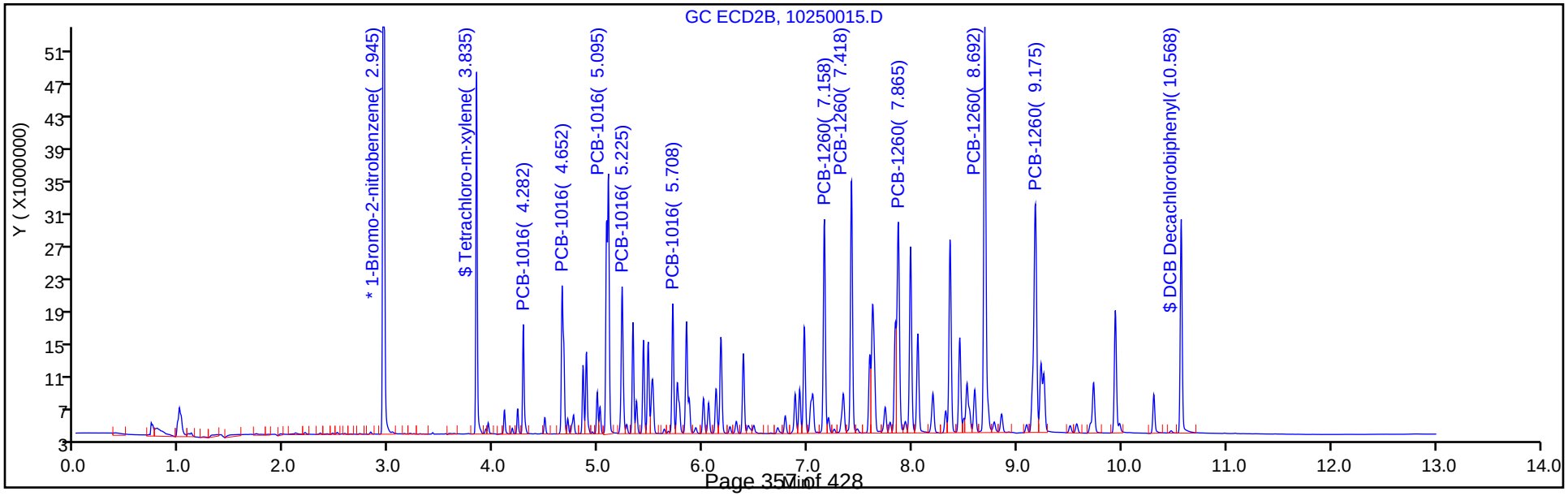
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250015.D				
Injection Date:	25-Oct-2022 14:03:35	Instrument ID:	SGC_P3	Operator ID:	SMP
Lims ID:	CCV 1660			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Lab Sample ID: CCV 280-591125/15 Calibration Date: 10/25/2022 14:03

Instrument ID: SGC_P3 Calib Start Date: 08/12/2022 12:05

GC Column: CLP2 ID: 0.32(mm) Calib End Date: 08/12/2022 14:02

Lab File ID: 10250015.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.0218		579	500	15.8	20.0
PCB-1016 Peak 2	Lin2		0.0435		552	500	10.4	20.0
PCB-1016 Peak 3	Lin2		0.0932		537	500	7.4	20.0
PCB-1016 Peak 4	Lin2		0.0368		522	500	4.5	20.0
PCB-1016 Peak 5	Lin2		0.0291		530	500	6.1	20.0
PCB-1260 Peak 1	Lin2		0.0548		591	500	18.2	20.0
PCB-1260 Peak 2	Lin2		0.0654		578	500	15.6	20.0
PCB-1260 Peak 3	Lin2		0.0654		568	500	13.5	20.0
PCB-1260 Peak 4	Lin2		0.1183		575	500	14.9	20.0
PCB-1260 Peak 5	Lin2		0.0849		568	500	13.5	20.0
Tetrachloro-m-xylene	Lin2		1.296		29.4	25.0	17.5	20.0
DCB Decachlorobiphenyl	Ave	0.9253	1.050		28.4	25.0	13.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Lab Sample ID: CCV 280-591125/15 Calibration Date: 10/25/2022 14:03

Instrument ID: SGC_P3 Calib Start Date: 08/12/2022 12:05

GC Column: CLP2 ID: 0.32(mm) Calib End Date: 08/12/2022 14:02

Lab File ID: 10250015.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.28	4.26	4.31
PCB-1016 Peak 2	4.65	4.63	4.68
PCB-1016 Peak 3	5.10	5.07	5.12
PCB-1016 Peak 4	5.23	5.20	5.25
PCB-1016 Peak 5	5.71	5.69	5.74
PCB-1260 Peak 1	7.16	7.13	7.18
PCB-1260 Peak 2	7.42	7.39	7.44
PCB-1260 Peak 3	7.87	7.84	7.89
PCB-1260 Peak 4	8.69	8.67	8.72
PCB-1260 Peak 5	9.18	9.15	9.20
Tetrachloro-m-xylene	3.84	3.81	3.86
DCB Decachlorobiphenyl	10.57	10.54	10.59

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250015.D
Lims ID: CCV 1660
Client ID:
Sample Type: CCV
Inject. Date: 25-Oct-2022 14:03:35 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCV 1660
Misc. Info.: 280-0115461-015
Operator ID: SMP Instrument ID: SGC_P3
Sublist: chrom-PCB_P3*sub1

Method: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\PCB_P3.m
Limit Group: GCSV - 8082A - IS
Last Update: 25-Oct-2022 16:42:27 Calib Date: 25-Oct-2022 11:31:41
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
Process Host: CTX1669

First Level Reviewer: USP3 Date: 25-Oct-2022 16:36:52

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.196	3.195	0.001	141011769	100.0	100.0	
2	2.945	2.948	-0.003	131613129	100.0	100.0	
						RPD = 0.00	
$ 14 Tetrachloro-m-xylene							
1	3.979	3.977	0.002	43830925	25.0	28.1	
2	3.835	3.833	0.002	42649117	25.0	29.4	
						RPD = 4.36	
1 PCB-1016							M
1	4.336	4.337	-0.001	15444184	500.0	506.6	
1	4.682	4.680	0.002	30408881	500.0	528.2	
1	5.152	5.147	0.005	62402049	500.0	532.0	
1	5.289	5.287	0.002	26724421	500.0	529.5	
1	5.719	5.720	-0.001	27796038	500.0	495.8	
		Average of Peak Amounts =				518.4	
2	4.282	4.280	0.002	14323504	500.0	579.1	
2	4.652	4.653	-0.001	28625472	500.0	552.0	
2	5.095	5.093	0.002	61351383	500.0	536.9	M
2	5.225	5.226	-0.001	24191573	500.0	522.3	
2	5.708	5.710	-0.002	19173741	500.0	530.3	
		Average of Peak Amounts =				544.1	
						RPD = 4.83	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12 PCB-1260							
1	7.119	7.117	0.002	37042437	500.0	611.4	
1	7.459	7.457	0.002	56784678	500.0	598.2	
1	7.809	7.807	0.002	64250966	500.0	580.2	
1	8.669	8.667	0.002	80390071	500.0	573.9	
1	9.042	9.040	0.002	41700752	500.0	565.7	
		Average of Peak Amounts =				585.9	
2	7.158	7.156	0.002	36045183	500.0	591.0	
2	7.418	7.416	0.002	43027937	500.0	577.9	
2	7.865	7.863	0.002	43046150	500.0	567.5	
2	8.692	8.690	0.002	77822865	500.0	574.6	
2	9.175	9.173	0.002	55897717	500.0	567.5	
		Average of Peak Amounts =				575.7	
						RPD = 1.75	
$ 15 DCB Decachlorobiphenyl							
1	10.399	10.400	-0.001	36589862	25.0	29.7	
2	10.568	10.566	0.002	34564255	25.0	28.4	
						RPD = 4.62	
S 8 Polychlorinated biphenyls, Total							
1						1104.3	
2						1119.8	
						RPD = 1.39	
19 1260 Res 1							
1	9.042	9.040	0.002	41700752	NR	NR	
16 1260 Res 2							
1	9.086	9.087	-0.002	21317261	NR	NR	
18 1260 Res 3							
1	9.142	9.144	-0.002	27218051	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

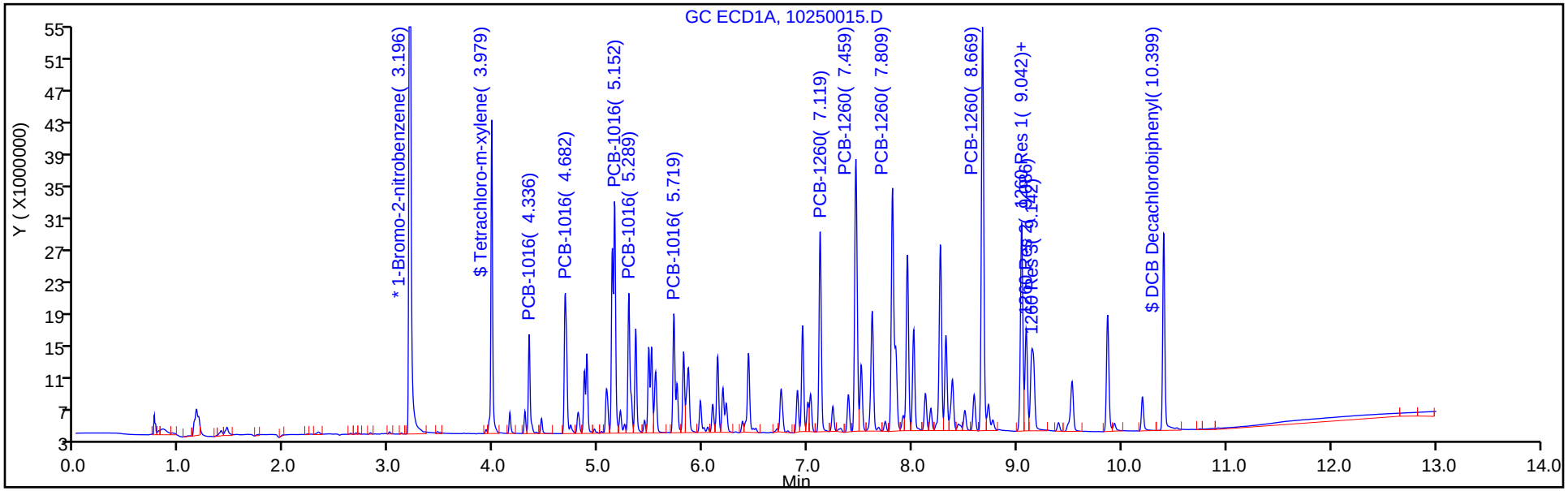
AR_1660_L7_00042	Amount Added: 100.00	Units: uL	
BNB IS_00023	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 25-Oct-2022 16:42:27 Chrom Revision: 2.3 28-Sep-2022 12:57:42

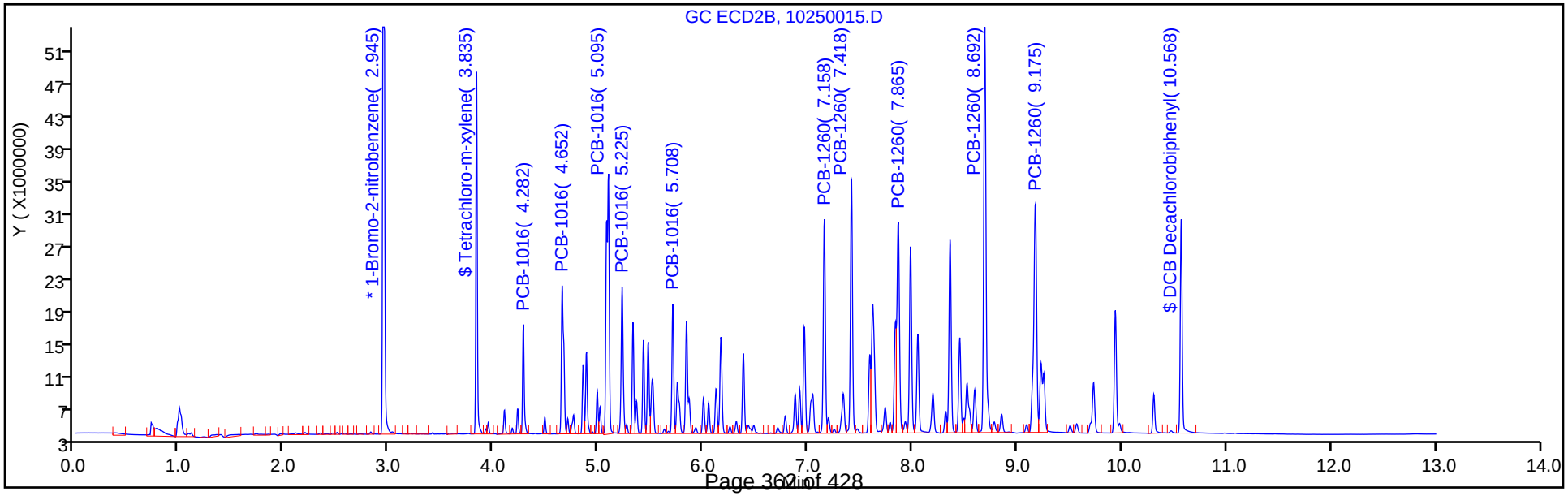
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250015.D				
Injection Date:	25-Oct-2022 14:03:35	Instrument ID:	SGC_P3	Operator ID:	SMP
Lims ID:	CCV 1660			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2

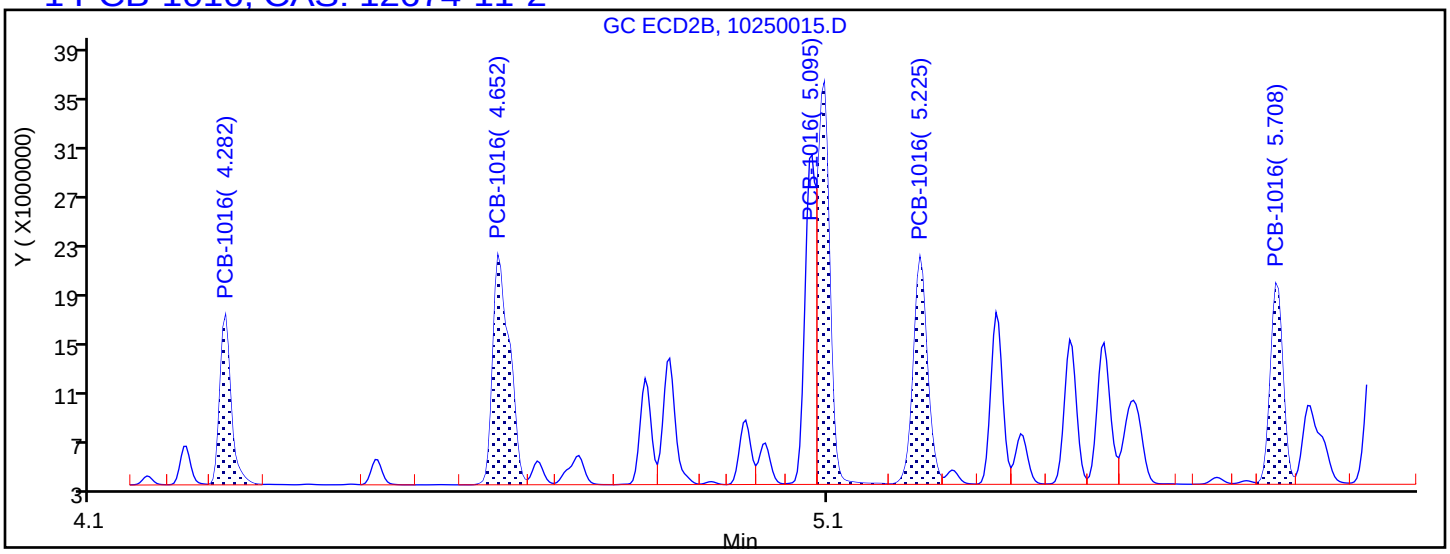


Report Date: 25-Oct-2022 16:42:28 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Denver

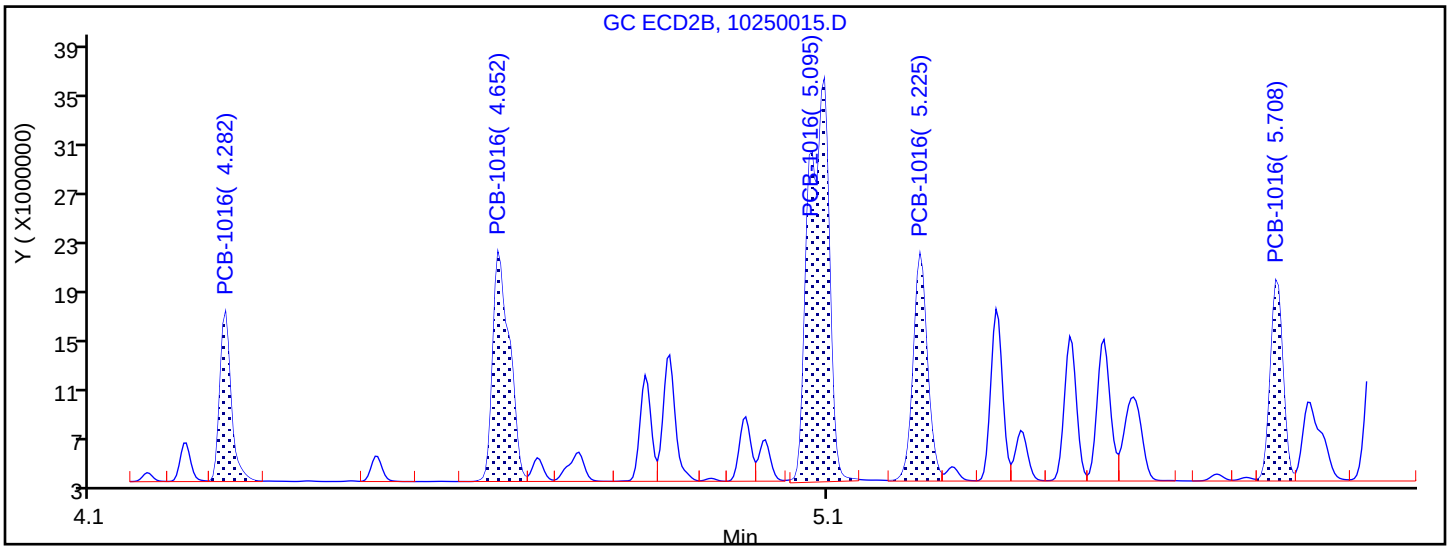
Data File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250015.D
Injection Date: 25-Oct-2022 14:03:35 Instrument ID: SGC_P3
Lims ID: CCV 1660
Client ID:
Operator ID: SMP ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCB_P3 Limit Group: GCSV - 8082A - IS
Column: CLP2 Pesticides Column 2 (0.32 mm) Detector GC ECD2B

1 PCB-1016, CAS: 12674-11-2



Processing Integration Results

4.282	Response = 14323504
4.652	Response = 28625472
5.095	Response = 34316096
5.225	Response = 24191573
5.708	Response = 19173741



Manual Integration Results

4.282	Response = 14323504	
4.652	Response = 28625472	
5.095	Response = 61351383	M
5.225	Response = 24191573	
5.708	Response = 19173741	

Reviewer: USP3, 25-Oct-2022 16:36:18
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Lab Sample ID: CCV 280-591125/26 Calibration Date: 10/25/2022 17:29

Instrument ID: SGC_P3 Calib Start Date: 08/12/2022 12:05

GC Column: CLP1 ID: 0.32(mm) Calib End Date: 08/12/2022 14:02

Lab File ID: 10250026.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0216	0.0219		506	500	1.1	20.0
PCB-1016 Peak 2	Lin2		0.0431		527	500	5.4	20.0
PCB-1016 Peak 3	Lin2		0.0886		533	500	6.6	20.0
PCB-1016 Peak 4	Lin2		0.0380		531	500	6.2	20.0
PCB-1016 Peak 5	Ave	0.0398	0.0396		498	500	-0.4	20.0
PCB-1260 Peak 1	Lin2		0.0525		611	500	22.1*	20.0
PCB-1260 Peak 2	Lin2		0.0811		603	500	20.5*	20.0
PCB-1260 Peak 3	Lin2		0.0916		583	500	16.7	20.0
PCB-1260 Peak 4	Lin2		0.1152		580	500	16.0	20.0
PCB-1260 Peak 5	Lin2		0.0604		578	500	15.7	20.0
Tetrachloro-m-xylene	Lin2		1.244		28.1	25.0	12.5	20.0
DCB Decachlorobiphenyl	Lin2		1.051		30.1	25.0	20.4*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Lab Sample ID: CCV 280-591125/26 Calibration Date: 10/25/2022 17:29

Instrument ID: SGC_P3 Calib Start Date: 08/12/2022 12:05

GC Column: CLP1 ID: 0.32(mm) Calib End Date: 08/12/2022 14:02

Lab File ID: 10250026.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.34	4.31	4.36
PCB-1016 Peak 2	4.68	4.66	4.71
PCB-1016 Peak 3	5.13	5.12	5.17
PCB-1016 Peak 4	5.29	5.26	5.31
PCB-1016 Peak 5	5.72	5.70	5.75
PCB-1260 Peak 1	7.12	7.09	7.14
PCB-1260 Peak 2	7.46	7.43	7.48
PCB-1260 Peak 3	7.81	7.78	7.83
PCB-1260 Peak 4	8.67	8.64	8.69
PCB-1260 Peak 5	9.04	9.02	9.07
Tetrachloro-m-xylene	3.98	3.95	4.00
DCB Decachlorobiphenyl	10.40	10.38	10.43

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250026.D
Lims ID: CCV 1660
Client ID:
Sample Type: CCV
Inject. Date: 25-Oct-2022 17:29:30 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCV 1660
Misc. Info.: 280-0115461-026
Operator ID: SMP Instrument ID: SGC_P3
Sublist: chrom-PCB_P3*sub1

Method: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\PCB_P3.m
Limit Group: GCSV - 8082A - IS
Last Update: 26-Oct-2022 08:39:49 Calib Date: 25-Oct-2022 11:31:41
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
Process Host: CTX1658

First Level Reviewer: USP3 Date: 26-Oct-2022 08:01:33

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.195	3.194	0.001	151169800	100.0	100.0	
2	2.947	2.946	0.001	144101883	100.0	100.0	
						RPD = 0.00	
$ 14 Tetrachloro-m-xylene							
1	3.978	3.977	0.001	47015156	25.0	28.1	
2	3.834	3.833	0.001	46171221	25.0	29.0	
						RPD = 3.16	
1 PCB-1016							M
1	4.335	4.337	-0.002	16525861	500.0	505.6	
1	4.678	4.680	-0.002	32539433	500.0	527.2	
1	5.128	5.147	-0.019	66996045	500.0	532.8	
1	5.288	5.287	0.001	28732024	500.0	531.1	
1	5.718	5.720	-0.002	29921739	500.0	497.9	
		Average of Peak Amounts =				518.9	
2	4.281	4.280	0.001	15447865	500.0	570.0	
2	4.651	4.653	-0.002	30662230	500.0	539.7	
2	5.094	5.093	0.001	67085635	500.0	536.1	M
2	5.224	5.226	-0.002	26104699	500.0	514.6	
2	5.711	5.710	0.001	20664357	500.0	521.8	
		Average of Peak Amounts =				536.4	
						RPD = 3.32	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12 PCB-1260							
1	7.115	7.117	-0.002	39666904	500.0	610.7	
1	7.458	7.457	0.001	61309914	500.0	602.6	
1	7.808	7.807	0.001	69254837	500.0	583.4	
1	8.668	8.667	0.001	87089364	500.0	580.1	
1	9.041	9.040	0.001	45686067	500.0	578.3	
		Average of Peak Amounts =				591.0	
2	7.157	7.156	0.001	38952601	500.0	583.1	
2	7.417	7.416	0.001	47260203	500.0	579.7	
2	7.864	7.863	0.001	47164502	500.0	567.9	
2	8.691	8.690	0.001	84572506	500.0	570.2	
2	9.174	9.173	0.001	60549226	500.0	561.3	
		Average of Peak Amounts =				572.5	
						RPD = 3.19	
$ 15 DCB Decachlorobiphenyl							
1	10.398	10.400	-0.002	39703667	25.0	30.1	
2	10.567	10.566	0.001	37645150	25.0	28.2	
						RPD = 6.36	
S 8 Polychlorinated biphenyls, Total							
1						1109.9	
2						1108.9	
						RPD = 0.09	
19 1260 Res 1							
1	9.041	9.040	0.001	45686067	NR	NR	
16 1260 Res 2							
1	9.085	9.087	-0.002	22681361	NR	NR	
18 1260 Res 3							
1	9.141	9.144	-0.002	30286434	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

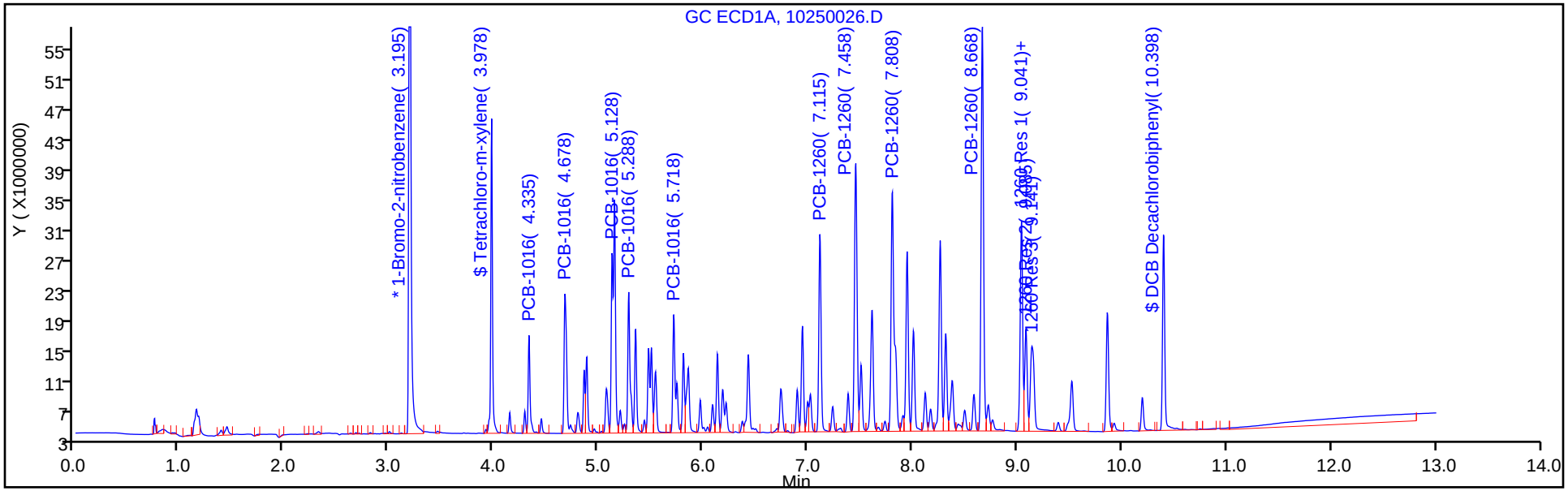
AR_1660_L7_00042	Amount Added: 100.00	Units: uL	
BNB IS_00023	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 26-Oct-2022 08:39:49 Chrom Revision: 2.3 28-Sep-2022 12:57:42

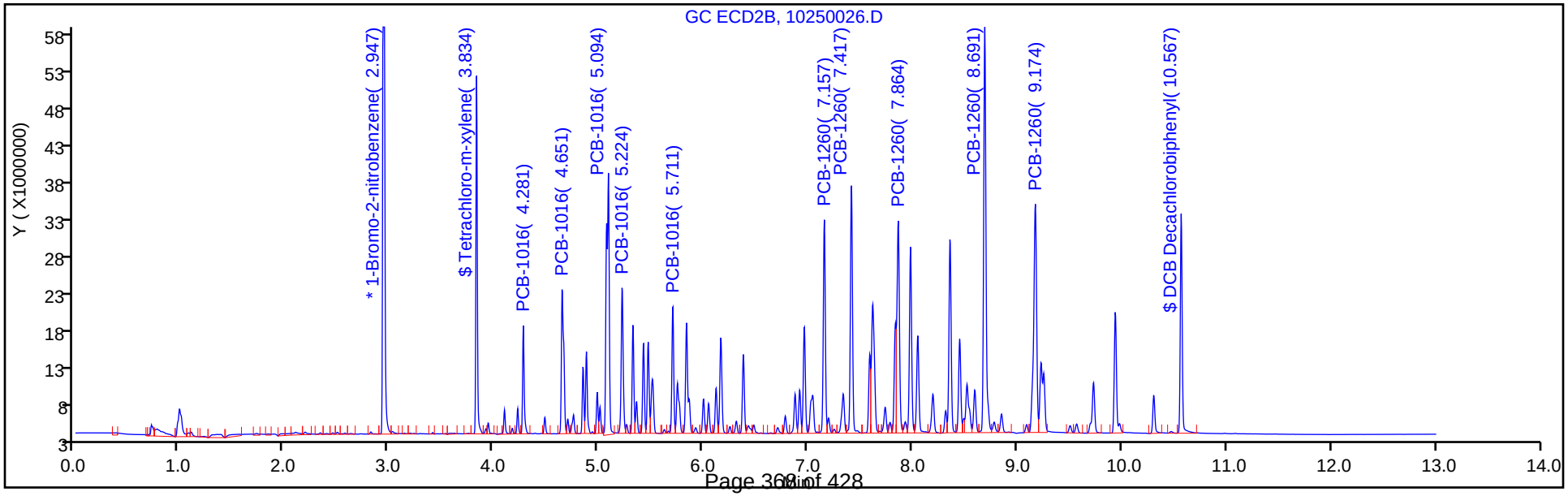
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250026.D				
Injection Date:	25-Oct-2022 17:29:30	Instrument ID:	SGC_P3	Operator ID:	SMP
Lims ID:	CCV 1660			Worklist Smp#:	26
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver | Job No.: 280-168095-2

SDG No.:

Lab Sample ID: CCV 280-591125/26 | Calibration Date: 10/25/2022 17:29

Instrument ID: SGC_P3 | Calib Start Date: 08/12/2022 12:05

GC Column: CLP2 ID: 0.32(mm) | Calib End Date: 08/12/2022 14:02

Lab File ID: 10250026.D | Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.0214		570	500	14.0	20.0
PCB-1016 Peak 2	Lin2		0.0426		540	500	7.9	20.0
PCB-1016 Peak 3	Lin2		0.0931		536	500	7.2	20.0
PCB-1016 Peak 4	Lin2		0.0362		515	500	2.9	20.0
PCB-1016 Peak 5	Lin2		0.0287		522	500	4.4	20.0
PCB-1260 Peak 1	Lin2		0.0541		583	500	16.6	20.0
PCB-1260 Peak 2	Lin2		0.0656		580	500	15.9	20.0
PCB-1260 Peak 3	Lin2		0.0655		568	500	13.6	20.0
PCB-1260 Peak 4	Lin2		0.1174		570	500	14.0	20.0
PCB-1260 Peak 5	Lin2		0.0840		561	500	12.3	20.0
Tetrachloro-m-xylene	Lin2		1.282		29.0	25.0	16.1	20.0
DCB Decachlorobiphenyl	Ave	0.9253	1.045		28.2	25.0	12.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Lab Sample ID: CCV 280-591125/26 Calibration Date: 10/25/2022 17:29

Instrument ID: SGC_P3 Calib Start Date: 08/12/2022 12:05

GC Column: CLP2 ID: 0.32(mm) Calib End Date: 08/12/2022 14:02

Lab File ID: 10250026.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.28	4.26	4.31
PCB-1016 Peak 2	4.65	4.63	4.68
PCB-1016 Peak 3	5.09	5.07	5.12
PCB-1016 Peak 4	5.22	5.20	5.25
PCB-1016 Peak 5	5.71	5.69	5.74
PCB-1260 Peak 1	7.16	7.13	7.18
PCB-1260 Peak 2	7.42	7.39	7.44
PCB-1260 Peak 3	7.86	7.84	7.89
PCB-1260 Peak 4	8.69	8.67	8.72
PCB-1260 Peak 5	9.17	9.15	9.20
Tetrachloro-m-xylene	3.83	3.81	3.86
DCB Decachlorobiphenyl	10.57	10.54	10.59

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250026.D
Lims ID: CCV 1660
Client ID:
Sample Type: CCV
Inject. Date: 25-Oct-2022 17:29:30 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCV 1660
Misc. Info.: 280-0115461-026
Operator ID: SMP Instrument ID: SGC_P3
Sublist: chrom-PCB_P3*sub1

Method: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\PCB_P3.m
Limit Group: GCSV - 8082A - IS
Last Update: 26-Oct-2022 08:39:49 Calib Date: 25-Oct-2022 11:31:41
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
Process Host: CTX1658

First Level Reviewer: USP3 Date: 26-Oct-2022 08:01:33

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.195	3.194	0.001	151169800	100.0	100.0	
2	2.947	2.946	0.001	144101883	100.0	100.0	
						RPD = 0.00	
$ 14 Tetrachloro-m-xylene							
1	3.978	3.977	0.001	47015156	25.0	28.1	
2	3.834	3.833	0.001	46171221	25.0	29.0	
						RPD = 3.16	
1 PCB-1016							M
1	4.335	4.337	-0.002	16525861	500.0	505.6	
1	4.678	4.680	-0.002	32539433	500.0	527.2	
1	5.128	5.147	-0.019	66996045	500.0	532.8	
1	5.288	5.287	0.001	28732024	500.0	531.1	
1	5.718	5.720	-0.002	29921739	500.0	497.9	
		Average of Peak Amounts =				518.9	
2	4.281	4.280	0.001	15447865	500.0	570.0	
2	4.651	4.653	-0.002	30662230	500.0	539.7	
2	5.094	5.093	0.001	67085635	500.0	536.1	M
2	5.224	5.226	-0.002	26104699	500.0	514.6	
2	5.711	5.710	0.001	20664357	500.0	521.8	
		Average of Peak Amounts =				536.4	
						RPD = 3.32	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12 PCB-1260							
1	7.115	7.117	-0.002	39666904	500.0	610.7	
1	7.458	7.457	0.001	61309914	500.0	602.6	
1	7.808	7.807	0.001	69254837	500.0	583.4	
1	8.668	8.667	0.001	87089364	500.0	580.1	
1	9.041	9.040	0.001	45686067	500.0	578.3	
		Average of Peak Amounts =				591.0	
2	7.157	7.156	0.001	38952601	500.0	583.1	
2	7.417	7.416	0.001	47260203	500.0	579.7	
2	7.864	7.863	0.001	47164502	500.0	567.9	
2	8.691	8.690	0.001	84572506	500.0	570.2	
2	9.174	9.173	0.001	60549226	500.0	561.3	
		Average of Peak Amounts =				572.5	
						RPD = 3.19	
$ 15 DCB Decachlorobiphenyl							
1	10.398	10.400	-0.002	39703667	25.0	30.1	
2	10.567	10.566	0.001	37645150	25.0	28.2	
						RPD = 6.36	
S 8 Polychlorinated biphenyls, Total							
1						1109.9	
2						1108.9	
						RPD = 0.09	
19 1260 Res 1							
1	9.041	9.040	0.001	45686067	NR	NR	
16 1260 Res 2							
1	9.085	9.087	-0.002	22681361	NR	NR	
18 1260 Res 3							
1	9.141	9.144	-0.002	30286434	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

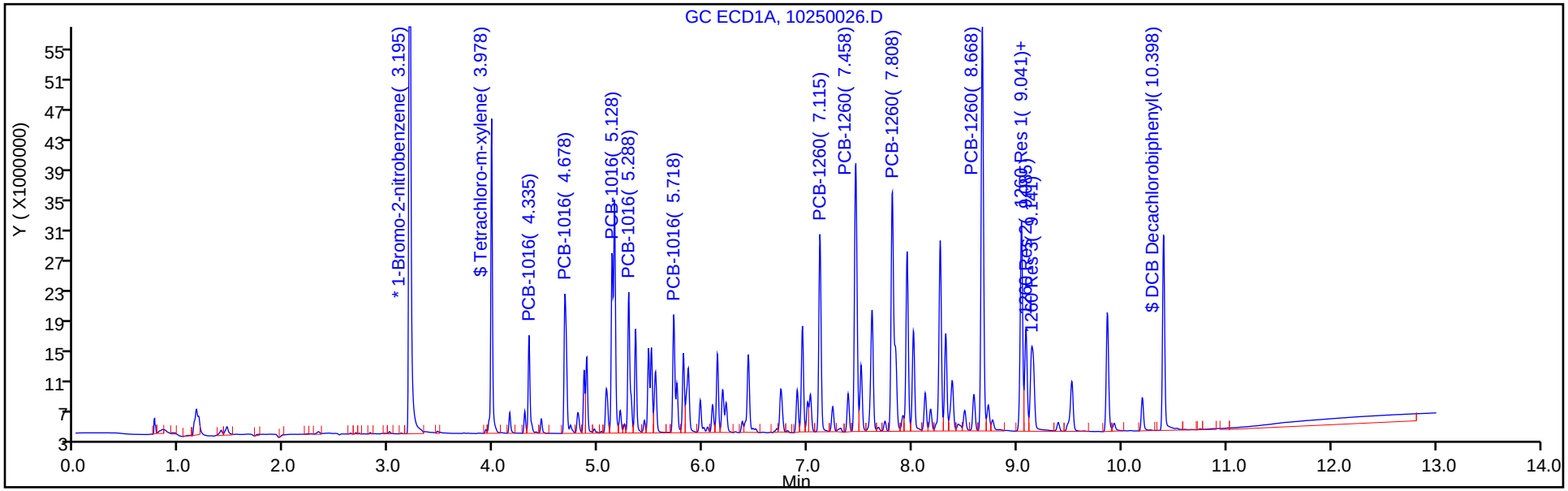
AR_1660_L7_00042	Amount Added: 100.00	Units: uL	
BNB IS_00023	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 26-Oct-2022 08:39:50 Chrom Revision: 2.3 28-Sep-2022 12:57:42

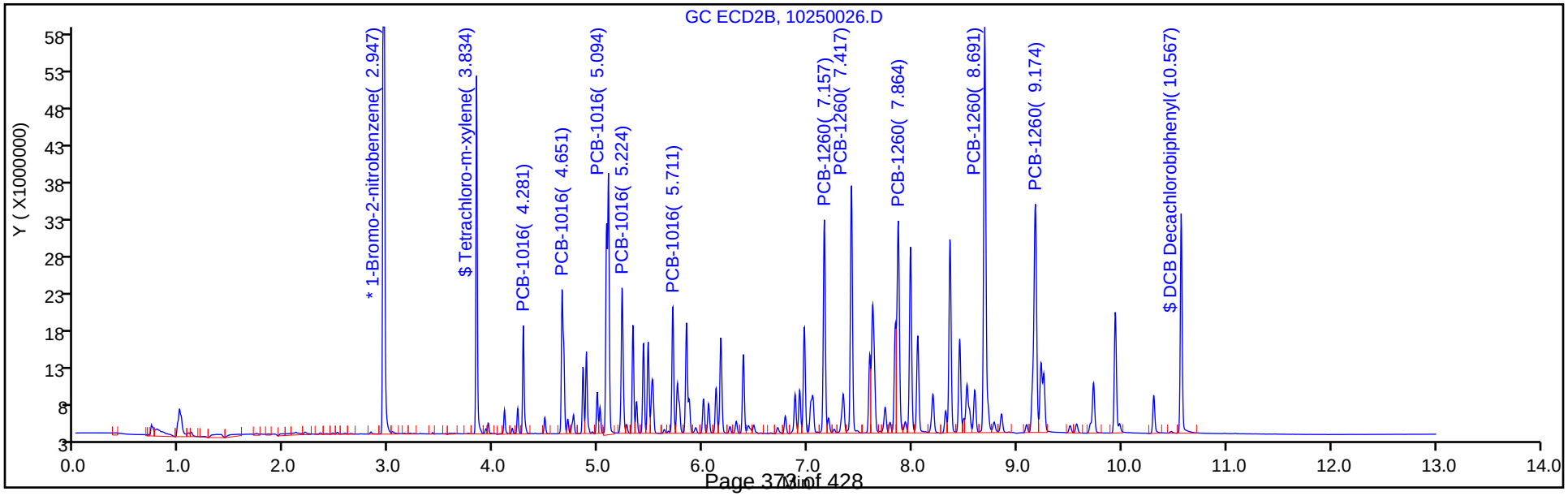
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250026.D				
Injection Date:	25-Oct-2022 17:29:30	Instrument ID:	SGC_P3	Operator ID:	SMP
Lims ID:	CCV 1660			Worklist Smp#:	26
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2

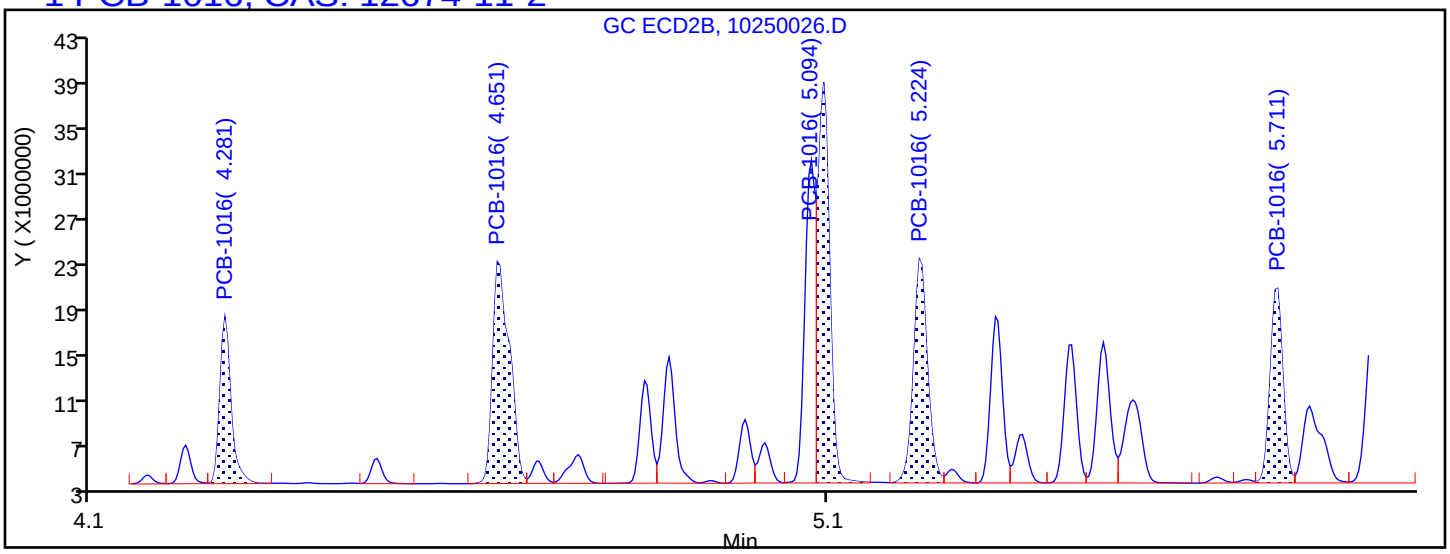


Report Date: 26-Oct-2022 08:39:50 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Denver

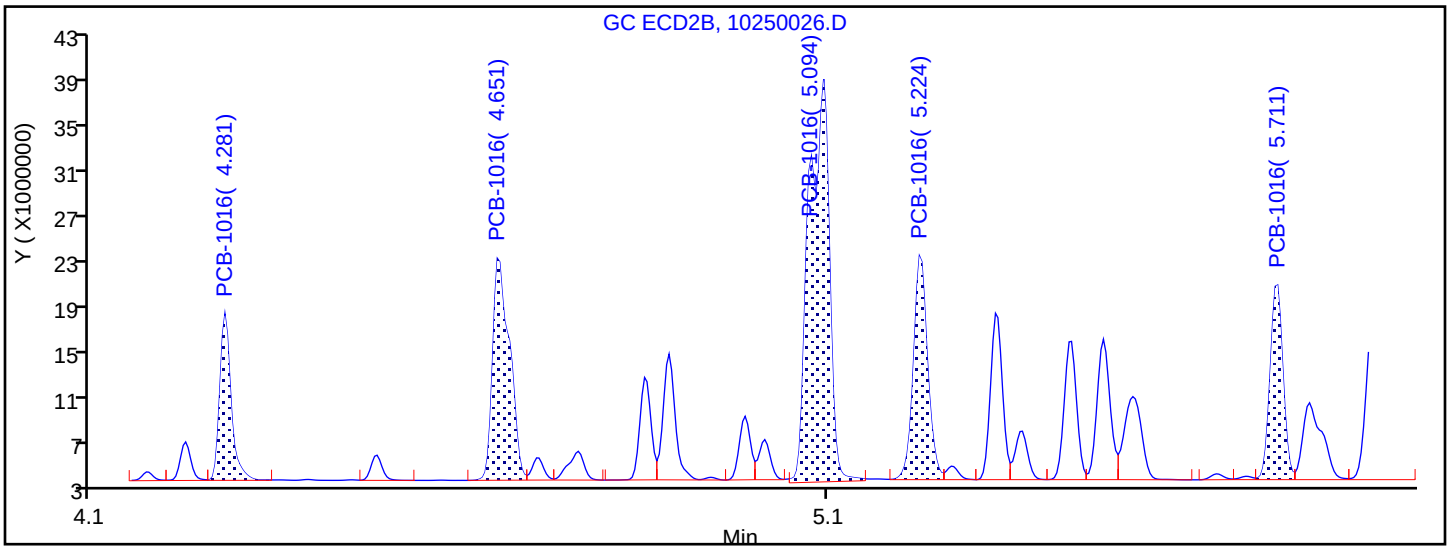
Data File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250026.D
Injection Date: 25-Oct-2022 17:29:30 Instrument ID: SGC_P3
Lims ID: CCV 1660
Client ID:
Operator ID: SMP ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCB_P3 Limit Group: GCSV - 8082A - IS
Column: CLP2 Pesticides Column 2 (0.32 mm) Detector GC ECD2B

1 PCB-1016, CAS: 12674-11-2



Processing Integration Results

4.281	Response = 15447865
4.651	Response = 30662230
5.094	Response = 38328477
5.224	Response = 26104699
5.711	Response = 20664357



Manual Integration Results

4.281	Response = 15447865	
4.651	Response = 30662230	
5.094	Response = 67085635	M
5.224	Response = 26104699	
5.711	Response = 20664357	

Reviewer: USP3, 26-Oct-2022 08:07:10
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Lab Sample ID: CCV 280-591125/35 Calibration Date: 10/25/2022 20:19

Instrument ID: SGC_P3 Calib Start Date: 08/12/2022 12:05

GC Column: CLP1 ID: 0.32(mm) Calib End Date: 08/12/2022 14:02

Lab File ID: 10250035.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0216	0.0219		506	500	1.3	20.0
PCB-1016 Peak 2	Lin2		0.0433		530	500	6.0	20.0
PCB-1016 Peak 3	Lin2		0.0879		528	500	5.7	20.0
PCB-1016 Peak 4	Lin2		0.0377		526	500	5.2	20.0
PCB-1016 Peak 5	Ave	0.0398	0.0392		494	500	-1.3	20.0
PCB-1260 Peak 1	Lin2		0.0528		614	500	22.8*	20.0
PCB-1260 Peak 2	Lin2		0.0807		599	500	19.8	20.0
PCB-1260 Peak 3	Lin2		0.0905		576	500	15.2	20.0
PCB-1260 Peak 4	Lin2		0.1134		571	500	14.2	20.0
PCB-1260 Peak 5	Lin2		0.0600		574	500	14.7	20.0
Tetrachloro-m-xylene	Lin2		1.252		28.3	25.0	13.2	20.0
DCB Decachlorobiphenyl	Lin2		1.040		29.8	25.0	19.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Lab Sample ID: CCV 280-591125/35 Calibration Date: 10/25/2022 20:19

Instrument ID: SGC_P3 Calib Start Date: 08/12/2022 12:05

GC Column: CLP1 ID: 0.32(mm) Calib End Date: 08/12/2022 14:02

Lab File ID: 10250035.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.34	4.31	4.36
PCB-1016 Peak 2	4.68	4.66	4.71
PCB-1016 Peak 3	5.13	5.12	5.17
PCB-1016 Peak 4	5.29	5.26	5.31
PCB-1016 Peak 5	5.72	5.70	5.75
PCB-1260 Peak 1	7.12	7.09	7.14
PCB-1260 Peak 2	7.46	7.43	7.48
PCB-1260 Peak 3	7.81	7.78	7.83
PCB-1260 Peak 4	8.67	8.64	8.69
PCB-1260 Peak 5	9.04	9.02	9.07
Tetrachloro-m-xylene	3.98	3.95	4.00
DCB Decachlorobiphenyl	10.40	10.38	10.43

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250035.D
Lims ID: CCV 1660
Client ID:
Sample Type: CCV
Inject. Date: 25-Oct-2022 20:19:30 ALS Bottle#: 35 Worklist Smp#: 35
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCV 1660
Misc. Info.: 280-0115461-035
Operator ID: SMP Instrument ID: SGC_P3
Sublist: chrom-PCB_P3*sub1

Method: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\PCB_P3.m
Limit Group: GCSV - 8082A - IS
Last Update: 26-Oct-2022 08:40:03 Calib Date: 25-Oct-2022 11:31:41
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
Process Host: CTX1658

First Level Reviewer: USP3 Date: 26-Oct-2022 08:02:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.196	3.194	0.002	146743911	100.0	100.0	
2	2.946	2.946	0.000	140753699	100.0	100.0	
						RPD = 0.00	
$ 14 Tetrachloro-m-xylene							
1	3.976	3.977	-0.001	45922317	25.0	28.3	
2	3.836	3.833	0.003	45159766	25.0	29.1	
						RPD = 2.67	
1 PCB-1016							
1	4.336	4.337	-0.001	16066513	500.0	506.4	
1	4.680	4.680	0.000	31743199	500.0	529.9	
1	5.130	5.147	-0.017	64513750	500.0	528.5	
1	5.286	5.287	-0.001	27631121	500.0	526.1	
1	5.720	5.720	0.000	28789727	500.0	493.5	
		Average of Peak Amounts =				516.9	
2	4.282	4.280	0.002	15130107	500.0	571.6	
2	4.652	4.653	-0.001	30094758	500.0	542.4	
2	5.096	5.093	0.003	64478404	500.0	527.4	
2	5.226	5.226	0.000	25420895	500.0	513.0	
2	5.709	5.710	-0.001	20035623	500.0	517.9	
		Average of Peak Amounts =				534.5	
						RPD = 3.35	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12 PCB-1260							M
1	7.116	7.117	-0.001	38707290	500.0	613.9	
1	7.456	7.457	-0.001	59188481	500.0	599.2	
1	7.806	7.807	-0.001	66411075	500.0	576.2	
1	8.666	8.667	-0.001	83207933	500.0	570.8	M
1	9.040	9.040	0.000	43990097	500.0	573.5	
		Average of Peak Amounts =				586.7	
2	7.156	7.156	0.000	37883068	500.0	580.5	
2	7.416	7.416	0.000	45729725	500.0	574.2	
2	7.862	7.863	-0.001	46770218	500.0	576.8	
2	8.689	8.690	-0.001	81772854	500.0	564.3	
2	9.172	9.173	-0.001	58744979	500.0	557.4	
		Average of Peak Amounts =				570.6	
						RPD = 2.78	
$ 15 DCB Decachlorobiphenyl							M
1	10.400	10.400	0.000	38160086	25.0	29.8	
2	10.566	10.566	0.000	35086656	25.0	26.9	M
						RPD = 10.04	
S 8 Polychlorinated biphenyls, Total							
1						1103.6	
2						1105.1	
						RPD = 0.14	
19 1260 Res 1							
1	9.040	9.040	-0.001	43990097	NR	NR	
16 1260 Res 2							
1	9.086	9.087	-0.001	21515043	NR	NR	
18 1260 Res 3							
1	9.140	9.144	-0.004	27949728	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

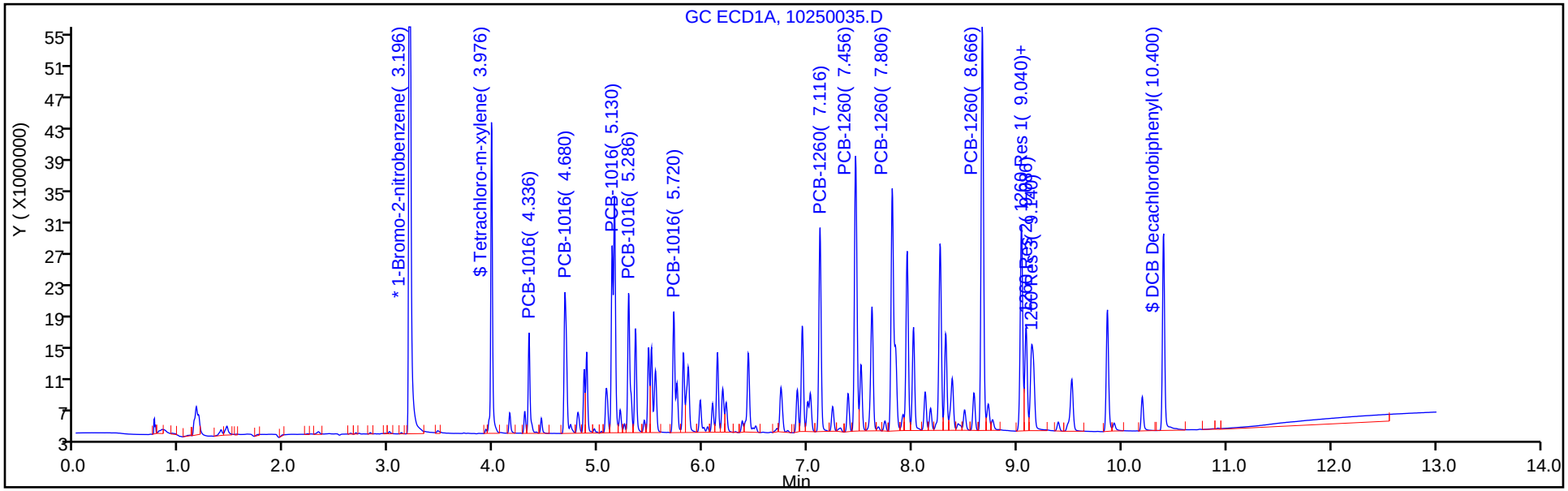
AR_1660_L7_00042	Amount Added: 100.00	Units: uL	
BNB IS_00023	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 26-Oct-2022 08:40:04 Chrom Revision: 2.3 28-Sep-2022 12:57:42

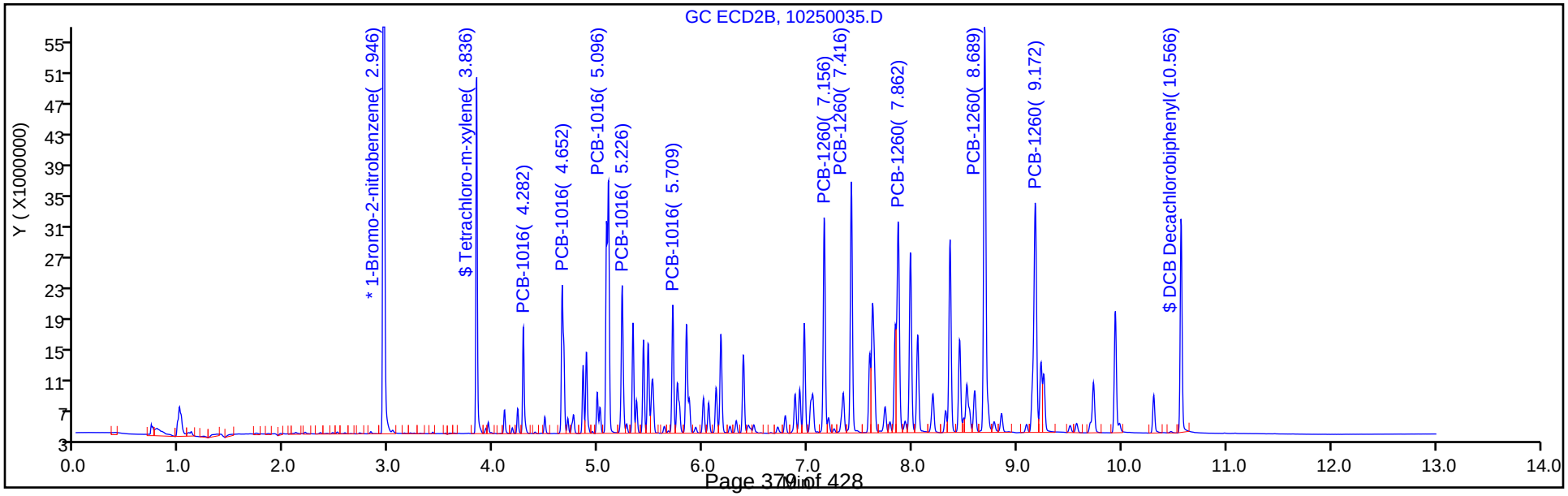
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250035.D				
Injection Date:	25-Oct-2022 20:19:30	Instrument ID:	SGC_P3	Operator ID:	SMP
Lims ID:	CCV 1660			Worklist Smp#:	35
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	35
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2

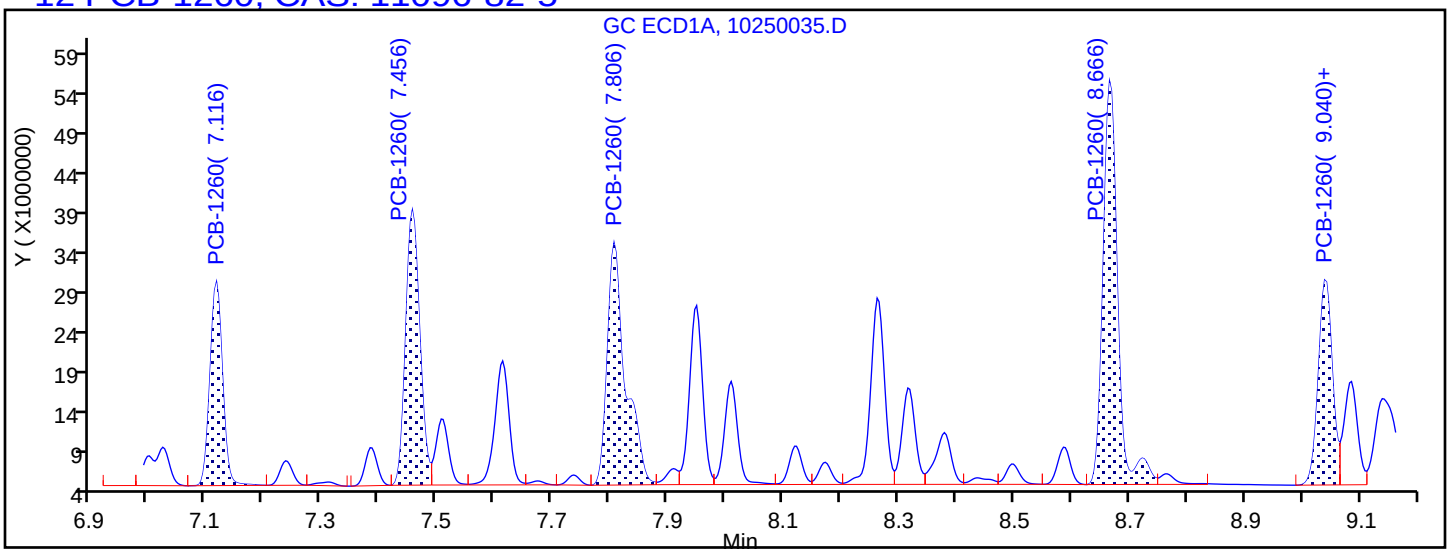


Report Date: 26-Oct-2022 08:40:04 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Denver

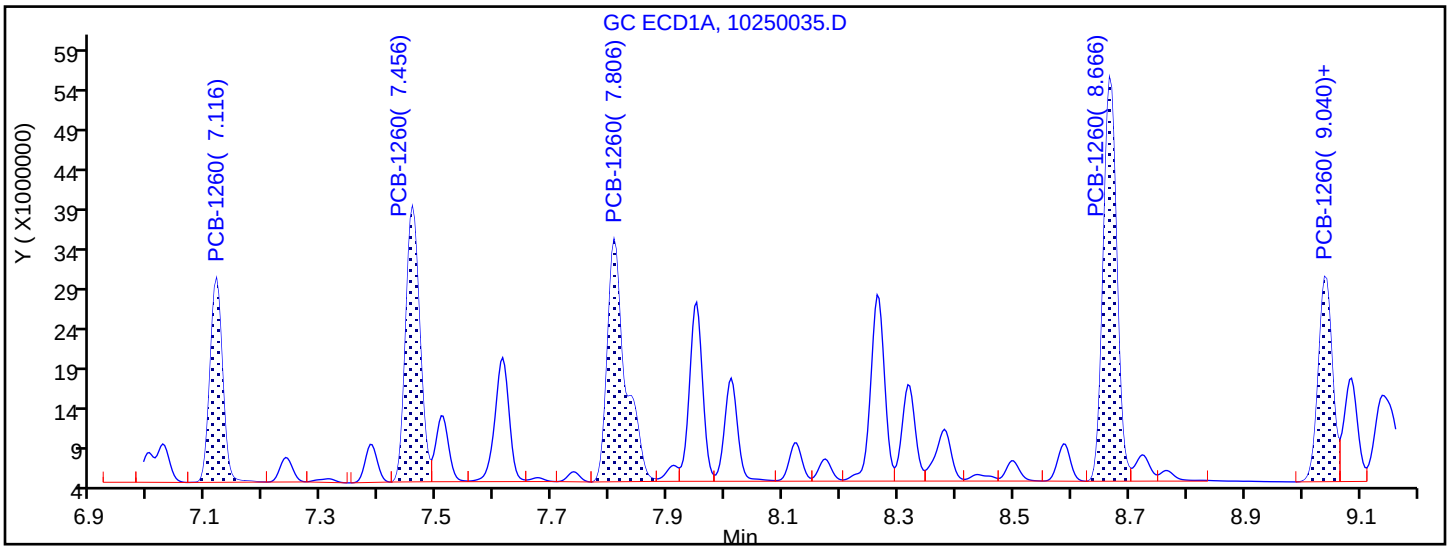
Data File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250035.D
Injection Date: 25-Oct-2022 20:19:30 Instrument ID: SGC_P3
Lims ID: CCV 1660
Client ID:
Operator ID: SMP ALS Bottle#: 35 Worklist Smp#: 35
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCB_P3 Limit Group: GCSV - 8082A - IS
Column: CLP1 Pesticides Column 1 (0.32 mm) Detector GC ECD1A

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

7.116	Response = 38707290
7.456	Response = 59188481
7.806	Response = 66411075
8.666	Response = 89202823
9.040	Response = 43990097



Manual Integration Results

7.116	Response = 38707290	
7.456	Response = 59188481	
7.806	Response = 66411075	
8.666	Response = 83207933	M
9.040	Response = 43990097	

Reviewer: USP3, 26-Oct-2022 08:01:51
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Lab Sample ID: CCV 280-591125/35 Calibration Date: 10/25/2022 20:19

Instrument ID: SGC_P3 Calib Start Date: 08/12/2022 12:05

GC Column: CLP2 ID: 0.32(mm) Calib End Date: 08/12/2022 14:02

Lab File ID: 10250035.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.0215		572	500	14.3	20.0
PCB-1016 Peak 2	Lin2		0.0428		542	500	8.5	20.0
PCB-1016 Peak 3	Lin2		0.0916		527	500	5.5	20.0
PCB-1016 Peak 4	Lin2		0.0361		513	500	2.6	20.0
PCB-1016 Peak 5	Lin2		0.0285		518	500	3.6	20.0
PCB-1260 Peak 1	Lin2		0.0538		580	500	16.1	20.0
PCB-1260 Peak 2	Lin2		0.0650		574	500	14.8	20.0
PCB-1260 Peak 3	Lin2		0.0665		577	500	15.4	20.0
PCB-1260 Peak 4	Lin2		0.1162		564	500	12.9	20.0
PCB-1260 Peak 5	Lin2		0.0835		557	500	11.5	20.0
Tetrachloro-m-xylene	Lin2		1.283		29.1	25.0	16.3	20.0
DCB Decachlorobiphenyl	Ave	0.9253	0.997		26.9	25.0	7.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Lab Sample ID: CCV 280-591125/35 Calibration Date: 10/25/2022 20:19

Instrument ID: SGC_P3 Calib Start Date: 08/12/2022 12:05

GC Column: CLP2 ID: 0.32(mm) Calib End Date: 08/12/2022 14:02

Lab File ID: 10250035.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.28	4.26	4.31
PCB-1016 Peak 2	4.65	4.63	4.68
PCB-1016 Peak 3	5.10	5.07	5.12
PCB-1016 Peak 4	5.23	5.20	5.25
PCB-1016 Peak 5	5.71	5.69	5.74
PCB-1260 Peak 1	7.16	7.13	7.18
PCB-1260 Peak 2	7.42	7.39	7.44
PCB-1260 Peak 3	7.86	7.84	7.89
PCB-1260 Peak 4	8.69	8.67	8.72
PCB-1260 Peak 5	9.17	9.15	9.20
Tetrachloro-m-xylene	3.84	3.81	3.86
DCB Decachlorobiphenyl	10.57	10.54	10.59

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250035.D
Lims ID: CCV 1660
Client ID:
Sample Type: CCV
Inject. Date: 25-Oct-2022 20:19:30 ALS Bottle#: 35 Worklist Smp#: 35
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCV 1660
Misc. Info.: 280-0115461-035
Operator ID: SMP Instrument ID: SGC_P3
Sublist: chrom-PCB_P3*sub1

Method: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\PCB_P3.m
Limit Group: GCSV - 8082A - IS
Last Update: 26-Oct-2022 08:40:03 Calib Date: 25-Oct-2022 11:31:41
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
Process Host: CTX1658

First Level Reviewer: USP3 Date: 26-Oct-2022 08:02:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.196	3.194	0.002	146743911	100.0	100.0	
2	2.946	2.946	0.000	140753699	100.0	100.0	
						RPD = 0.00	
$ 14 Tetrachloro-m-xylene							
1	3.976	3.977	-0.001	45922317	25.0	28.3	
2	3.836	3.833	0.003	45159766	25.0	29.1	
						RPD = 2.67	
1 PCB-1016							
1	4.336	4.337	-0.001	16066513	500.0	506.4	
1	4.680	4.680	0.000	31743199	500.0	529.9	
1	5.130	5.147	-0.017	64513750	500.0	528.5	
1	5.286	5.287	-0.001	27631121	500.0	526.1	
1	5.720	5.720	0.000	28789727	500.0	493.5	
		Average of Peak Amounts =				516.9	
2	4.282	4.280	0.002	15130107	500.0	571.6	
2	4.652	4.653	-0.001	30094758	500.0	542.4	
2	5.096	5.093	0.003	64478404	500.0	527.4	
2	5.226	5.226	0.000	25420895	500.0	513.0	
2	5.709	5.710	-0.001	20035623	500.0	517.9	
		Average of Peak Amounts =				534.5	
						RPD = 3.35	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12 PCB-1260							M
1	7.116	7.117	-0.001	38707290	500.0	613.9	
1	7.456	7.457	-0.001	59188481	500.0	599.2	
1	7.806	7.807	-0.001	66411075	500.0	576.2	
1	8.666	8.667	-0.001	83207933	500.0	570.8	M
1	9.040	9.040	0.000	43990097	500.0	573.5	
		Average of Peak Amounts =				586.7	
2	7.156	7.156	0.000	37883068	500.0	580.5	
2	7.416	7.416	0.000	45729725	500.0	574.2	
2	7.862	7.863	-0.001	46770218	500.0	576.8	
2	8.689	8.690	-0.001	81772854	500.0	564.3	
2	9.172	9.173	-0.001	58744979	500.0	557.4	
		Average of Peak Amounts =				570.6	
						RPD = 2.78	
$ 15 DCB Decachlorobiphenyl							M
1	10.400	10.400	0.000	38160086	25.0	29.8	
2	10.566	10.566	0.000	35086656	25.0	26.9	M
						RPD = 10.04	
S 8 Polychlorinated biphenyls, Total							
1						1103.6	
2						1105.1	
						RPD = 0.14	
19 1260 Res 1							
1	9.040	9.040	-0.001	43990097	NR	NR	
16 1260 Res 2							
1	9.086	9.087	-0.001	21515043	NR	NR	
18 1260 Res 3							
1	9.140	9.144	-0.004	27949728	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

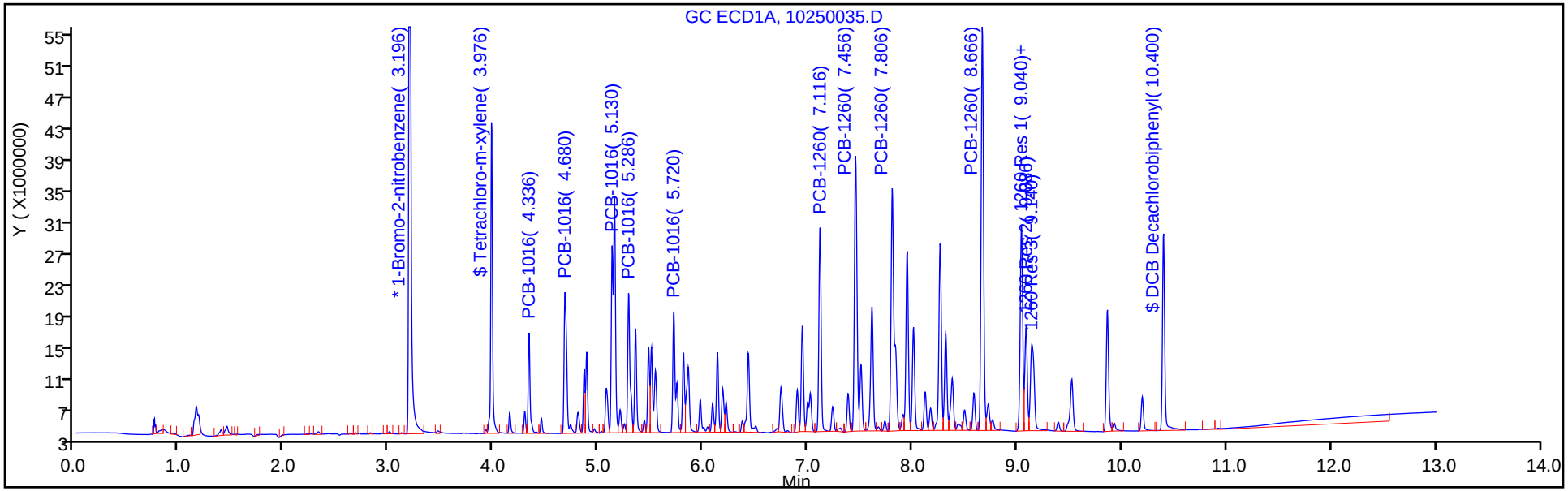
AR_1660_L7_00042	Amount Added: 100.00	Units: uL	
BNB IS_00023	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 26-Oct-2022 08:40:04 Chrom Revision: 2.3 28-Sep-2022 12:57:42

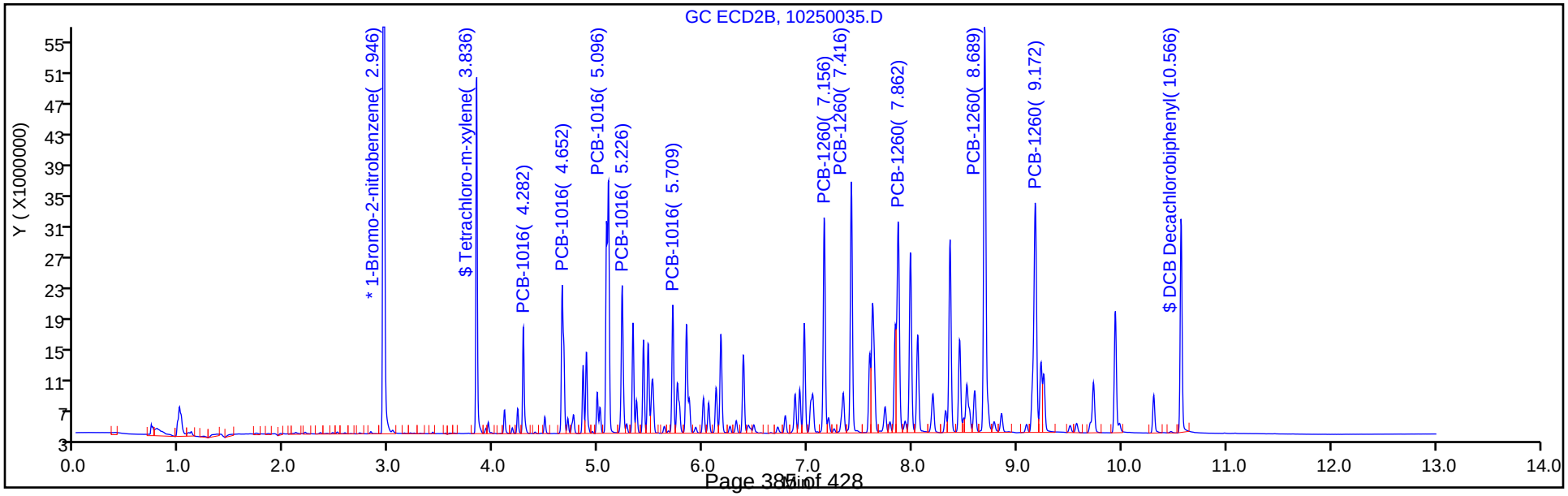
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250035.D				
Injection Date:	25-Oct-2022 20:19:30	Instrument ID:	SGC_P3	Operator ID:	SMP
Lims ID:	CCV 1660			Worklist Smp#:	35
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	35
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Denver

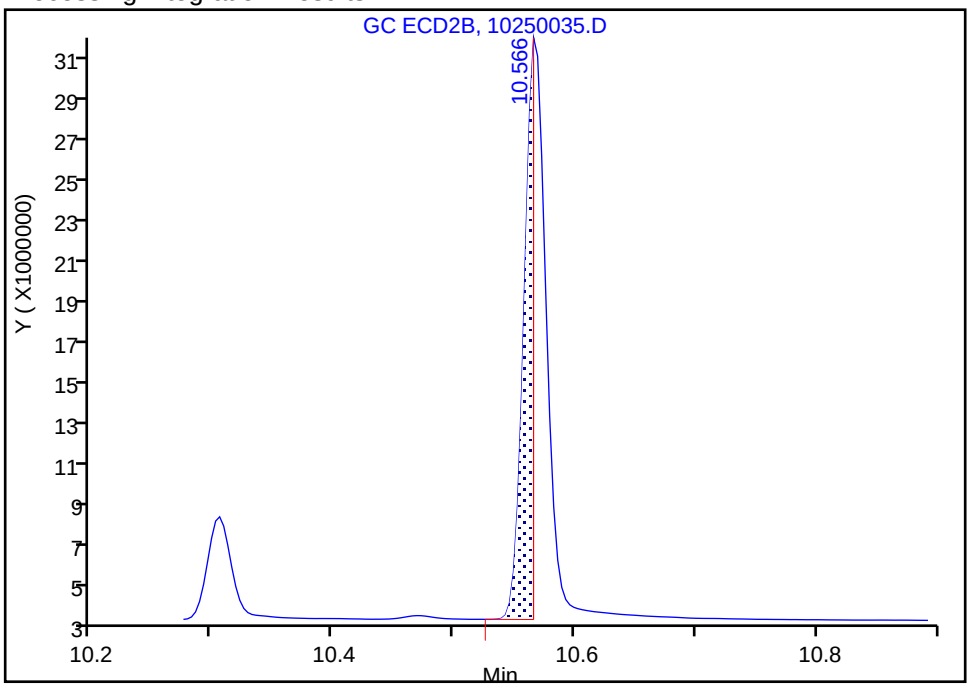
Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250035.D				
Injection Date:	25-Oct-2022 20:19:30	Instrument ID:	SGC_P3		
Lims ID:	CCV 1660				
Client ID:					
Operator ID:	SMP	ALS Bottle#:	35	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		
Column:	CLP2 Pesticides Column 2 (0.32 mm)	Detector	GC ECD2B		

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

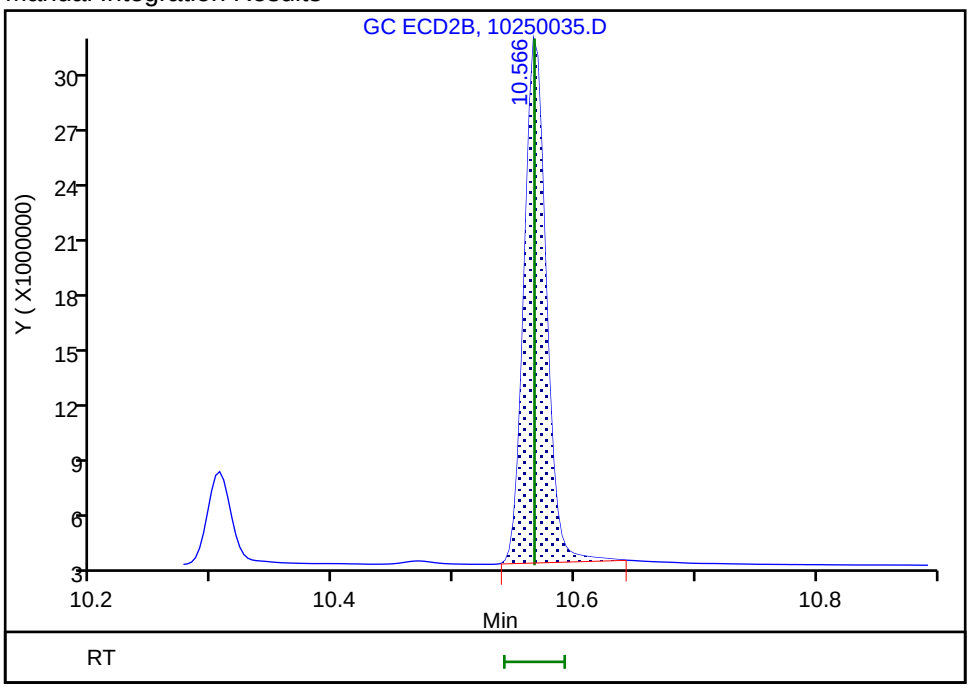
Processing Integration Results

RT: 10.57
Area: 14987588
Amount: 12.957684
Amount Units: ng/ml



Manual Integration Results

RT: 10.57
Area: 35086656
Amount: 26.940725
Amount Units: ng/ml



Reviewer: USP3, 26-Oct-2022 08:10:33

Audit Action: Manually Integrated Audit Reason: Split Peak

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Lab Sample ID: CCV 280-591125/47 Calibration Date: 10/26/2022 00:02

Instrument ID: SGC_P3 Calib Start Date: 08/12/2022 12:05

GC Column: CLP1 ID: 0.32(mm) Calib End Date: 08/12/2022 14:02

Lab File ID: 10250047.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0216	0.0196		454	500	-9.2	20.0
PCB-1016 Peak 2	Lin2		0.0387		473	500	-5.3	20.0
PCB-1016 Peak 3	Lin2		0.0786		471	500	-5.7	20.0
PCB-1016 Peak 4	Lin2		0.0342		476	500	-4.7	20.0
PCB-1016 Peak 5	Ave	0.0398	0.0351		442	500	-11.7	20.0
PCB-1260 Peak 1	Lin2		0.0466		542	500	8.3	20.0
PCB-1260 Peak 2	Lin2		0.0726		537	500	7.5	20.0
PCB-1260 Peak 3	Lin2		0.0813		516	500	3.3	20.0
PCB-1260 Peak 4	Lin2		0.1023		514	500	2.8	20.0
PCB-1260 Peak 5	Lin2		0.0534		510	500	2.0	20.0
Tetrachloro-m-xylene	Lin2		1.107		25.0	25.0	-0.0	20.0
DCB Decachlorobiphenyl	Lin2		0.9630		27.6	25.0	10.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Lab Sample ID: CCV 280-591125/47 Calibration Date: 10/26/2022 00:02

Instrument ID: SGC_P3 Calib Start Date: 08/12/2022 12:05

GC Column: CLP1 ID: 0.32(mm) Calib End Date: 08/12/2022 14:02

Lab File ID: 10250047.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.34	4.31	4.36
PCB-1016 Peak 2	4.68	4.66	4.71
PCB-1016 Peak 3	5.13	5.12	5.17
PCB-1016 Peak 4	5.29	5.26	5.31
PCB-1016 Peak 5	5.72	5.70	5.75
PCB-1260 Peak 1	7.12	7.09	7.14
PCB-1260 Peak 2	7.46	7.43	7.48
PCB-1260 Peak 3	7.81	7.78	7.83
PCB-1260 Peak 4	8.67	8.64	8.69
PCB-1260 Peak 5	9.04	9.02	9.07
Tetrachloro-m-xylene	3.98	3.95	4.00
DCB Decachlorobiphenyl	10.40	10.38	10.43

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250047.D
Lims ID: CCV 1660
Client ID:
Sample Type: CCV
Inject. Date: 26-Oct-2022 00:02:50 ALS Bottle#: 47 Worklist Smp#: 47
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCV 1660
Misc. Info.: 280-0115461-047
Operator ID: SMP Instrument ID: SGC_P3
Sublist: chrom-PCB_P3*sub1

Method: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\PCB_P3.m
Limit Group: GCSV - 8082A - IS
Last Update: 26-Oct-2022 08:40:34 Calib Date: 25-Oct-2022 11:31:41
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
Process Host: CTX1658

First Level Reviewer: USP3 Date: 26-Oct-2022 08:25:13

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.197	3.194	0.003	146354953	100.0	100.0	
2	2.946	2.946	0.000	141415645	100.0	100.0	
						RPD = 0.00	
$ 14 Tetrachloro-m-xylene							
1	3.977	3.977	0.000	40486924	25.0	25.0	
2	3.833	3.833	0.000	39995709	25.0	25.6	
						RPD = 2.34	
1 PCB-1016							M
1	4.337	4.337	0.000	14370800	500.0	454.2	
1	4.680	4.680	0.000	28342399	500.0	473.4	
1	5.130	5.147	-0.017	57502032	500.0	471.4	
1	5.287	5.287	0.000	25002164	500.0	476.4	
1	5.720	5.720	0.000	25692408	500.0	441.6	
		Average of Peak Amounts =				463.4	
2	4.279	4.280	-0.001	13599073	500.0	508.4	
2	4.653	4.653	0.000	26621640	500.0	475.3	
2	5.093	5.093	0.000	56557429	500.0	459.3	M
2	5.226	5.226	0.000	22690499	500.0	454.7	
2	5.709	5.710	-0.001	17940265	500.0	460.3	
		Average of Peak Amounts =				471.6	
						RPD = 1.76	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12 PCB-1260							
1	7.117	7.117	0.000	34132196	500.0	541.6	
1	7.457	7.457	0.000	53094133	500.0	537.3	
1	7.807	7.807	0.000	59473755	500.0	516.4	
1	8.667	8.667	0.000	74867512	500.0	513.8	
1	9.040	9.040	0.000	39086394	500.0	509.9	
		Average of Peak Amounts =				523.8	
2	7.156	7.156	0.000	36211727	500.0	551.4	
2	7.416	7.416	0.000	40487122	500.0	504.3	
2	7.863	7.863	0.000	41348729	500.0	506.0	
2	8.689	8.690	-0.001	73616209	500.0	504.2	
2	9.173	9.173	0.000	52811576	500.0	497.2	
		Average of Peak Amounts =				512.6	
						RPD = 2.16	
$ 15 DCB Decachlorobiphenyl							
1	10.400	10.400	0.000	35236780	25.0	27.6	
2	10.566	10.566	0.000	33379529	25.0	25.5	
						RPD = 7.75	
S 8 Polychlorinated biphenyls, Total							
1						987.2	
2						984.2	
						RPD = 0.30	
19 1260 Res 1							
1	9.040	9.040	0.000	39086394	NR	NR	
16 1260 Res 2							
1	9.083	9.087	-0.004	20023404	NR	NR	
18 1260 Res 3							
1	9.140	9.144	-0.004	26591179	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

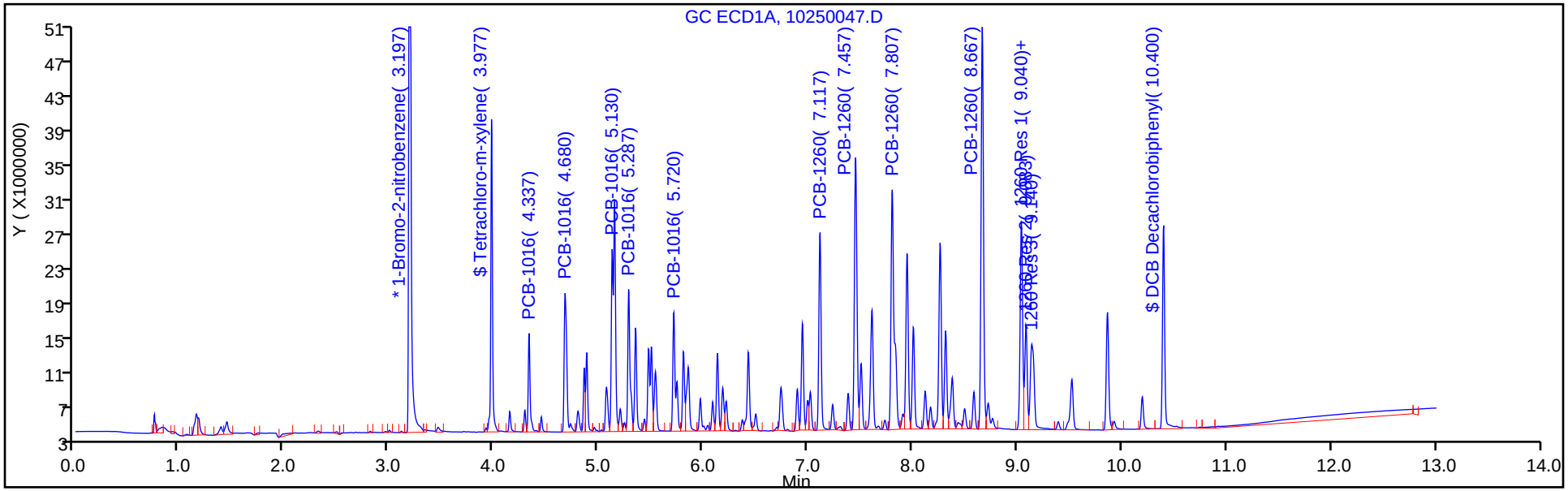
AR_1660_L7_00042	Amount Added: 100.00	Units: uL	
BNB IS_00023	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 26-Oct-2022 08:40:35 Chrom Revision: 2.3 28-Sep-2022 12:57:42

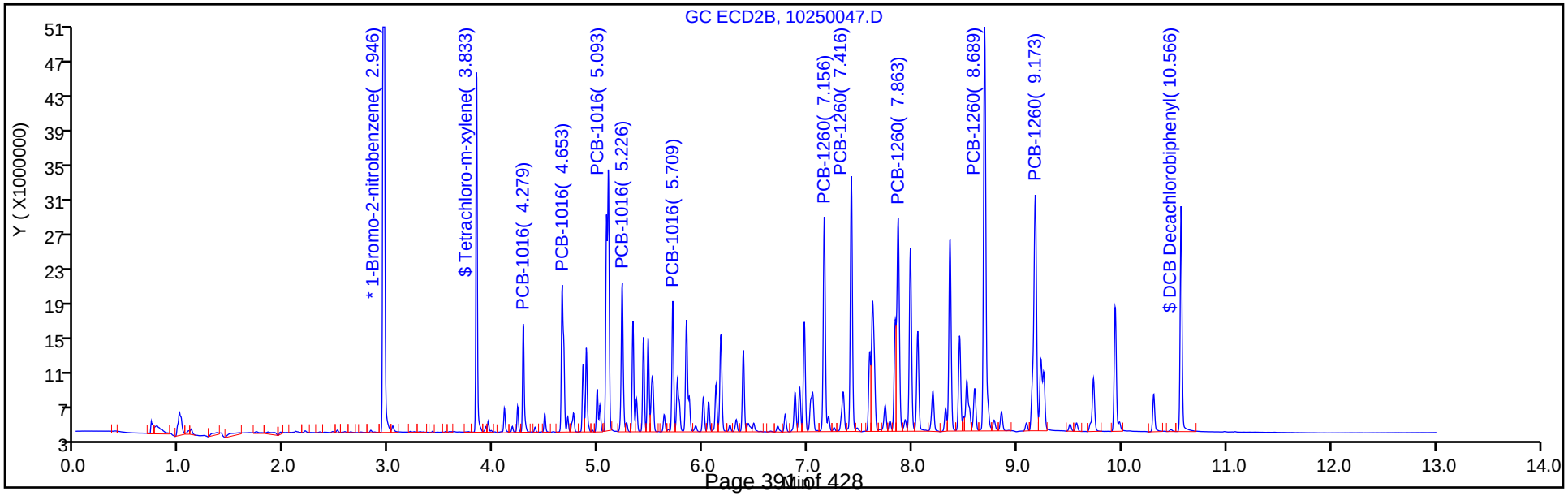
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250047.D				
Injection Date:	26-Oct-2022 00:02:50	Instrument ID:	SGC_P3	Operator ID:	SMP
Lims ID:	CCV 1660			Worklist Smp#:	47
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	47
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Lab Sample ID: CCV 280-591125/47 Calibration Date: 10/26/2022 00:02

Instrument ID: SGC_P3 Calib Start Date: 08/12/2022 12:05

GC Column: CLP2 ID: 0.32(mm) Calib End Date: 08/12/2022 14:02

Lab File ID: 10250047.D Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.0192		508	500	1.7	20.0
PCB-1016 Peak 2	Lin2		0.0377		475	500	-4.9	20.0
PCB-1016 Peak 3	Lin2		0.0800		459	500	-8.1	20.0
PCB-1016 Peak 4	Lin2		0.0321		455	500	-9.1	20.0
PCB-1016 Peak 5	Lin2		0.0254		460	500	-7.9	20.0
PCB-1260 Peak 1	Lin2		0.0512		551	500	10.3	20.0
PCB-1260 Peak 2	Lin2		0.0573		504	500	0.9	20.0
PCB-1260 Peak 3	Lin2		0.0585		506	500	1.2	20.0
PCB-1260 Peak 4	Lin2		0.1041		504	500	0.8	20.0
PCB-1260 Peak 5	Lin2		0.0747		497	500	-0.6	20.0
Tetrachloro-m-xylene	Lin2		1.131		25.6	25.0	2.3	20.0
DCB Decachlorobiphenyl	Ave	0.9253	0.9442		25.5	25.0	2.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Lab Sample ID: CCV 280-591125/47 Calibration Date: 10/26/2022 00:02

Instrument ID: SGC_P3 Calib Start Date: 08/12/2022 12:05

GC Column: CLP2 ID: 0.32(mm) Calib End Date: 08/12/2022 14:02

Lab File ID: 10250047.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.28	4.26	4.31
PCB-1016 Peak 2	4.65	4.63	4.68
PCB-1016 Peak 3	5.09	5.07	5.12
PCB-1016 Peak 4	5.23	5.20	5.25
PCB-1016 Peak 5	5.71	5.69	5.74
PCB-1260 Peak 1	7.16	7.13	7.18
PCB-1260 Peak 2	7.42	7.39	7.44
PCB-1260 Peak 3	7.86	7.84	7.89
PCB-1260 Peak 4	8.69	8.67	8.72
PCB-1260 Peak 5	9.17	9.15	9.20
Tetrachloro-m-xylene	3.83	3.81	3.86
DCB Decachlorobiphenyl	10.57	10.54	10.59

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250047.D
Lims ID: CCV 1660
Client ID:
Sample Type: CCV
Inject. Date: 26-Oct-2022 00:02:50 ALS Bottle#: 47 Worklist Smp#: 47
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCV 1660
Misc. Info.: 280-0115461-047
Operator ID: SMP Instrument ID: SGC_P3
Sublist: chrom-PCB_P3*sub1

Method: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\PCB_P3.m
Limit Group: GCSV - 8082A - IS
Last Update: 26-Oct-2022 08:40:34 Calib Date: 25-Oct-2022 11:31:41
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
Process Host: CTX1658

First Level Reviewer: USP3 Date: 26-Oct-2022 08:25:13

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.197	3.194	0.003	146354953	100.0	100.0	
2	2.946	2.946	0.000	141415645	100.0	100.0	
						RPD = 0.00	
$ 14 Tetrachloro-m-xylene							
1	3.977	3.977	0.000	40486924	25.0	25.0	
2	3.833	3.833	0.000	39995709	25.0	25.6	
						RPD = 2.34	
1 PCB-1016							M
1	4.337	4.337	0.000	14370800	500.0	454.2	
1	4.680	4.680	0.000	28342399	500.0	473.4	
1	5.130	5.147	-0.017	57502032	500.0	471.4	
1	5.287	5.287	0.000	25002164	500.0	476.4	
1	5.720	5.720	0.000	25692408	500.0	441.6	
		Average of Peak Amounts =				463.4	
2	4.279	4.280	-0.001	13599073	500.0	508.4	
2	4.653	4.653	0.000	26621640	500.0	475.3	
2	5.093	5.093	0.000	56557429	500.0	459.3	M
2	5.226	5.226	0.000	22690499	500.0	454.7	
2	5.709	5.710	-0.001	17940265	500.0	460.3	
		Average of Peak Amounts =				471.6	
						RPD = 1.76	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12 PCB-1260							
1	7.117	7.117	0.000	34132196	500.0	541.6	
1	7.457	7.457	0.000	53094133	500.0	537.3	
1	7.807	7.807	0.000	59473755	500.0	516.4	
1	8.667	8.667	0.000	74867512	500.0	513.8	
1	9.040	9.040	0.000	39086394	500.0	509.9	
		Average of Peak Amounts =				523.8	
2	7.156	7.156	0.000	36211727	500.0	551.4	
2	7.416	7.416	0.000	40487122	500.0	504.3	
2	7.863	7.863	0.000	41348729	500.0	506.0	
2	8.689	8.690	-0.001	73616209	500.0	504.2	
2	9.173	9.173	0.000	52811576	500.0	497.2	
		Average of Peak Amounts =				512.6	
						RPD = 2.16	
$ 15 DCB Decachlorobiphenyl							
1	10.400	10.400	0.000	35236780	25.0	27.6	
2	10.566	10.566	0.000	33379529	25.0	25.5	
						RPD = 7.75	
S 8 Polychlorinated biphenyls, Total							
1						987.2	
2						984.2	
						RPD = 0.30	
19 1260 Res 1							
1	9.040	9.040	0.000	39086394	NR	NR	
16 1260 Res 2							
1	9.083	9.087	-0.004	20023404	NR	NR	
18 1260 Res 3							
1	9.140	9.144	-0.004	26591179	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

AR_1660_L7_00042	Amount Added: 100.00	Units: uL	
BNB IS_00023	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 26-Oct-2022 08:40:35 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250047.D

Injection Date: 26-Oct-2022 00:02:50 Instrument ID: SGC_P3 Operator ID: SMP

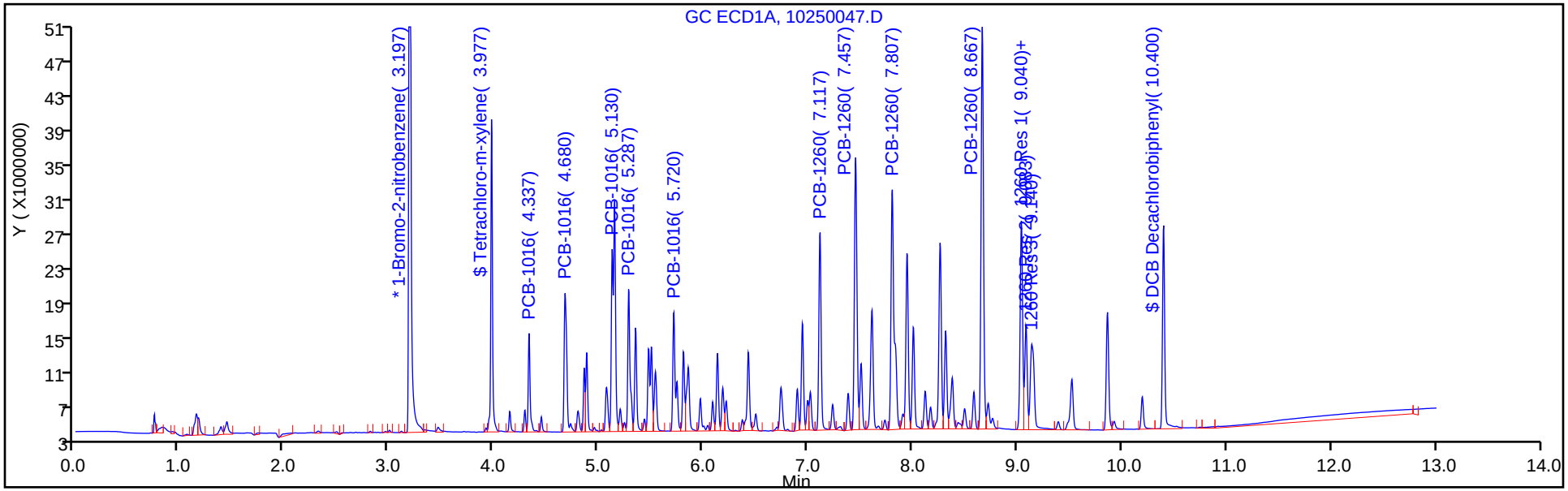
Lims ID: CCV 1660 Worklist Smp#: 47

Client ID:

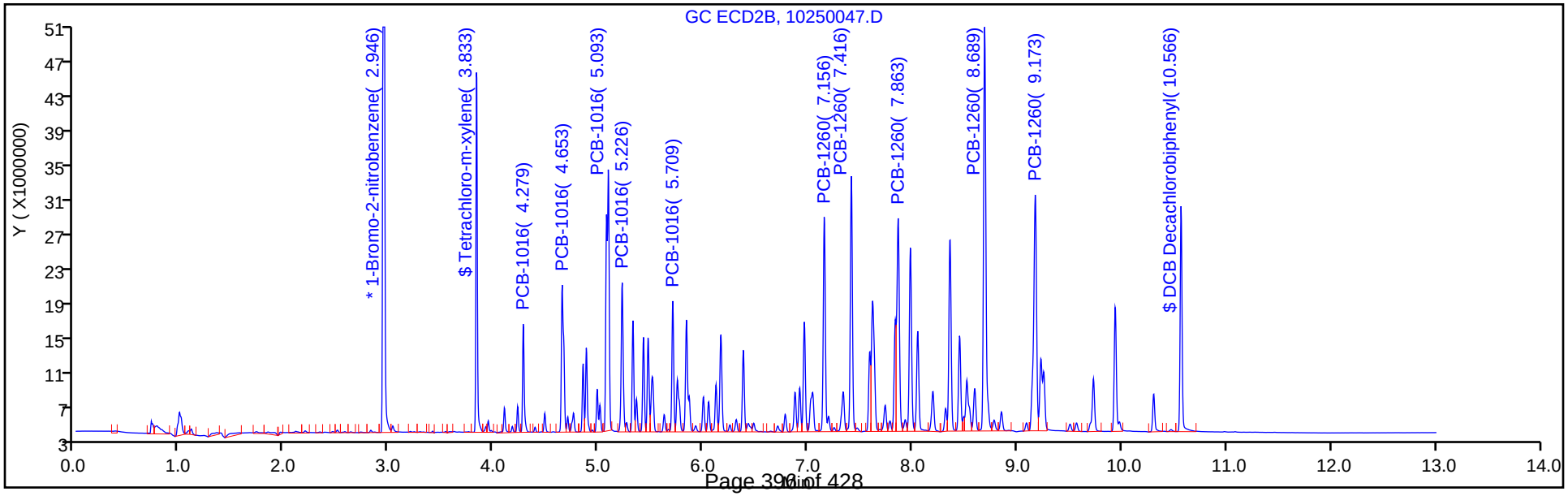
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 47

Method: PCB_P3 Limit Group: GCSV - 8082A - IS

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2

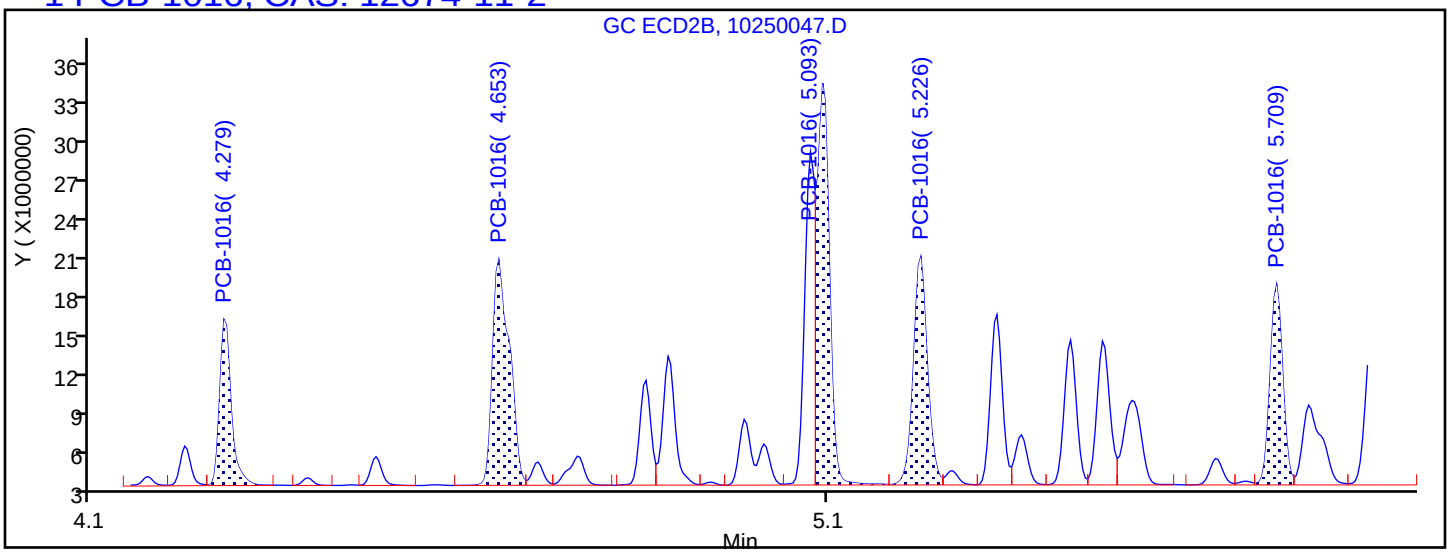


Report Date: 26-Oct-2022 08:40:35 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Denver

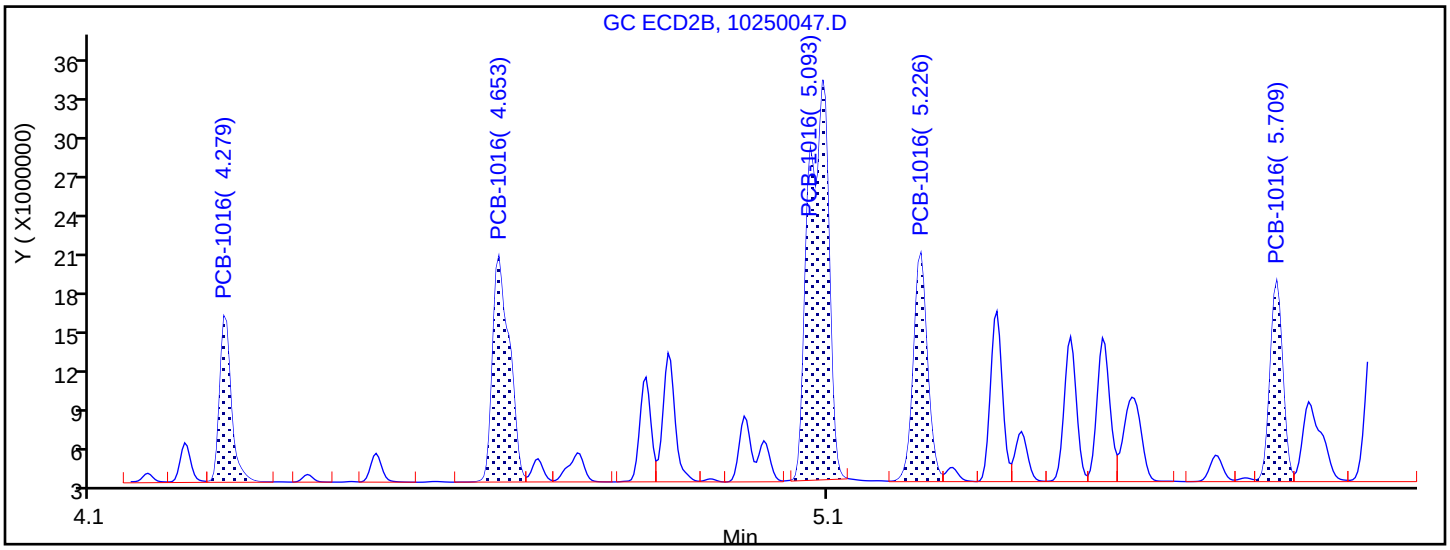
Data File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250047.D
Injection Date: 26-Oct-2022 00:02:50 Instrument ID: SGC_P3
Lims ID: CCV 1660
Client ID:
Operator ID: SMP ALS Bottle#: 47 Worklist Smp#: 47
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCB_P3 Limit Group: GCSV - 8082A - IS
Column: CLP2 Pesticides Column 2 (0.32 mm) Detector GC ECD2B

1 PCB-1016, CAS: 12674-11-2



Processing Integration Results

4.279	Response = 13599073
4.653	Response = 26621640
5.093	Response = 34598066
5.226	Response = 22690499
5.709	Response = 17940265



Manual Integration Results

4.279	Response = 13599073	
4.653	Response = 26621640	
5.093	Response = 56557429	M
5.226	Response = 22690499	
5.709	Response = 17940265	

Reviewer: USP3, 26-Oct-2022 08:24:57
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver
Job No.: 280-168095-2
SDG No.:
Client Sample ID:
Lab Sample ID: MB 280-591039/1-A
Matrix: Waste
Lab File ID: 10250036.D
Analysis Method: 8082A
Date Collected:
Extraction Method: 3580A
Date Extracted: 10/24/2022 16:37
Sample wt/vol: 1(g)
Date Analyzed: 10/25/2022 20:37
Con. Extract Vol.: 10(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: CLP1 ID: 0.32(mm)
% Moisture: % Solids:
GPC Cleanup:(Y/N) N
Cleanup Factor:
Analysis Batch No.: 591125
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
11104-28-2	PCB-1221	230	U	1400	230
12674-11-2	PCB-1016	150	U	990	150
11141-16-5	PCB-1232	150	U	990	150
53469-21-9	PCB-1242	270	U	990	270
12672-29-6	PCB-1248	170	U	990	170
11097-69-1	PCB-1254	170	U	990	170
11096-82-5	PCB-1260	80	U	990	80
37324-23-5	PCB-1262	110	U	990	110
11100-14-4	PCB-1268	120	U	990	120
1336-36-3	Polychlorinated biphenyls, Total	80	U	990	80

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	101		53-128
2051-24-3	DCB Decachlorobiphenyl	115		59-130

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250036.D
Lims ID: MB 280-591039/1-A
Client ID:
Sample Type: MB
Inject. Date: 25-Oct-2022 20:37:56 ALS Bottle#: 36 Worklist Smp#: 36
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 280-591039/1-
Misc. Info.: 280-0115461-036
Operator ID: SMP Instrument ID: SGC_P3

Method: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\PCB_P3.m
Limit Group: GCSV - 8082A - IS
Last Update: 26-Oct-2022 08:40:03 Calib Date: 25-Oct-2022 11:31:41
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
Process Host: CTX1658

First Level Reviewer: USP3 Date: 26-Oct-2022 08:11:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.194	3.194	0.000	126934454	100.0	100.0	
2	2.947	2.946	0.001	120754256	100.0	100.0	
						RPD = 0.00	
$ 14 Tetrachloro-m-xylene							
1	3.977	3.977	0.000	28518874	20.0	20.2	
2	3.833	3.833	0.000	28647502	20.0	21.4	
						RPD = 5.55	
3 PCB-1221							
1		4.151				ND	
1		4.294					
1		4.334					
2		4.100					
2		4.227					
2		4.280					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
7 PCB-1232							
1		4.333				ND	
1		4.680					
1		5.130					
1		5.286					
1		5.716					
2		4.279					
2		4.652					
2		5.076					
2		5.226					
2		6.172					
10 PCB-1242							
1		4.334				ND	
1		4.677					
1		5.127					
1		5.287					
1		6.184					
2		4.280					
2		4.653					
2		5.093					
2		5.223					
2		5.840					
1 PCB-1016							
1		4.337				ND	
1		4.680					
1		5.147					
1		5.287					
1		5.720					
2		4.280					
2		4.653					
2		5.093					
2		5.226					
2		5.710					
4 PCB-1248							
1		4.678				ND	
1		5.128					
1		5.718					
1		6.185					
1		6.898					
2		5.078					
2		5.708					
2		5.841					
2		6.124					
2		6.431					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
9 PCB-1254							
1		6.188				ND	
1		6.431					
1		6.901					
1		7.461					
1		7.808					
2		6.167					
2		6.384					
2		6.920					
2		7.197					
2		7.864					
5 PCB-1262							
1		7.116				ND	
1		7.456					
1		7.950					
1		8.666					
1		9.086					
2		6.966					
2		7.982					
2		8.359					
2		8.692					
2		9.169					
12 PCB-1260							
1		7.117				ND	
1		7.457					
1		7.807					
1		8.667					
1		9.040					
2		7.156					
2		7.416					
2		7.863					
2		8.690					
2		9.173					
13 PCB-1268							
1		9.084				ND	
1		9.137					
1		9.394					
1		9.864					
1		10.198					
2		9.167					
2		9.227					
2		9.567					
2		9.937					
2		10.307					
$ 15 DCB Decachlorobiphenyl							
1	10.401	10.400	0.001	25494141	20.0	23.0	
2	10.567	10.566	0.001	23990869	20.0	21.5	
						RPD = 6.73	
S 8 Polychlorinated biphenyls, Total							
1		0.000				ND	
2		0.000					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
2 PCB-5460							
1		0.000				ND	
1		12.739					
1		0.000					
1		13.802					
1		14.259					
2		0.000					
2		0.000					
2		0.000					
2		0.000					
2		0.000					
6 PCB-5432							
1		7.063				ND	
1		7.693					
1		8.203					
1		9.029					
1		9.459					
2		0.000					
2		0.000					
2		0.000					
2		0.000					
2		0.000					
11 PCB-5442							
1		9.459				ND	
1		9.923					
1		10.079					
1		10.289					
1		0.000					
2		0.000					
2		0.000					
2		0.000					
2		0.000					
2		0.000					

QC Flag Legend

Processing Flags

Reagents:

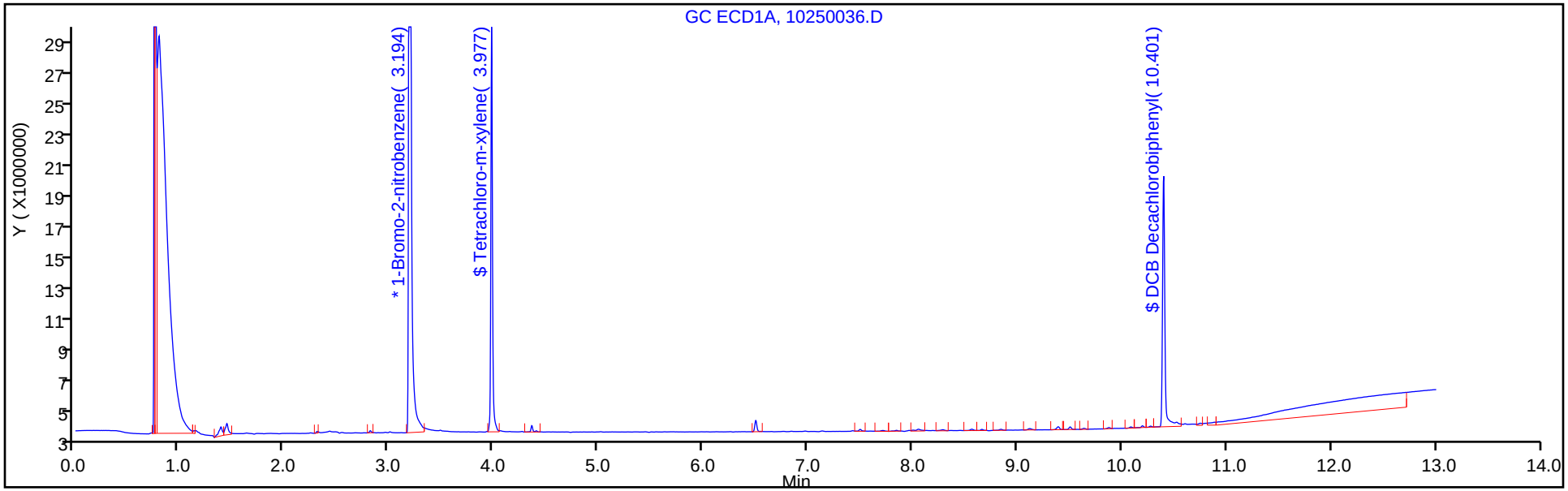
BNB IS_00023 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 26-Oct-2022 08:40:08 Chrom Revision: 2.3 28-Sep-2022 12:57:42

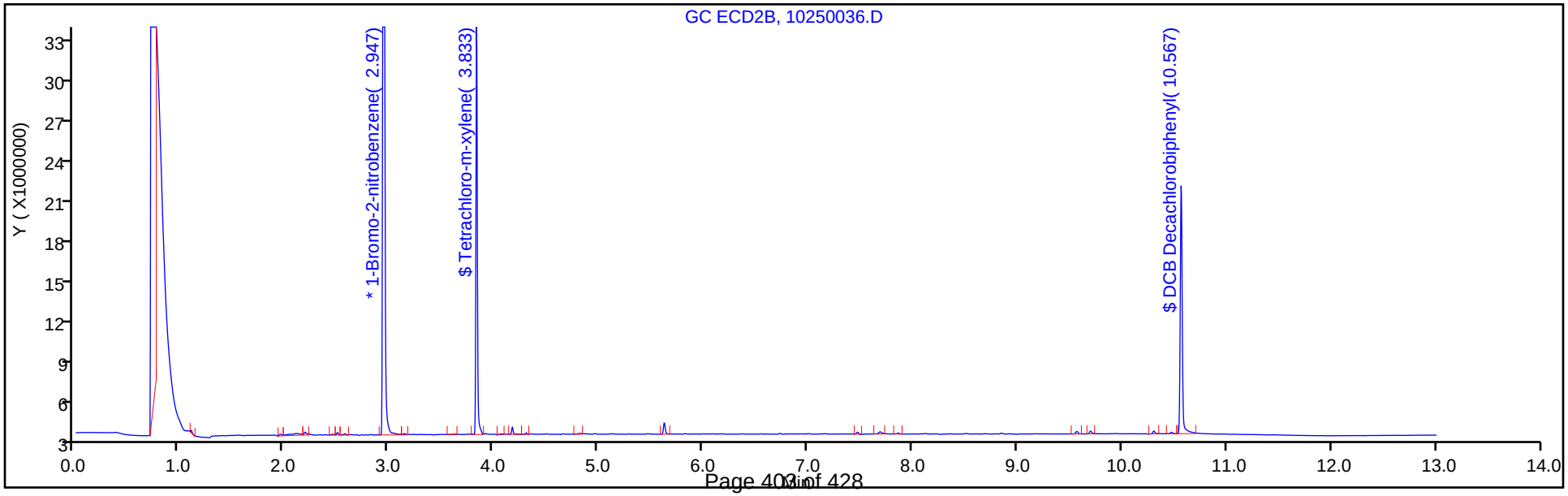
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250036.D				
Injection Date:	25-Oct-2022 20:37:56	Instrument ID:	SGC_P3	Operator ID:	SMP
Lims ID:	MB 280-591039/1-A			Worklist Smp#:	36
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	36
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250036.D				
Lims ID:	MB 280-591039/1-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	25-Oct-2022 20:37:56	ALS Bottle#:	36	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	MB 280-591039/1-				
Misc. Info.:	280-0115461-036				
Operator ID:	SMP	Instrument ID:	SGC_P3		
Method:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\PCB_P3.m				
Limit Group:	GCSV - 8082A - IS				
Last Update:	26-Oct-2022 08:40:03	Calib Date:	25-Oct-2022 11:31:41		
Integrator:	Falcon				
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D				
Column 1 :	CLP1 Pesticides Column 1 (0.32 mm)		Det: GC ECD1A		
Column 2 :	CLP2 Pesticides Column 2 (0.32 mm)		Det: GC ECD2B		
Process Host:	CTX1658				
First Level Reviewer:	USP3	Date:	26-Oct-2022 08:11:30		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 14 Tetrachloro-m-xylene	20.0	20.2	101.08
$ 15 DCB Decachlorobiphenyl	20.0	23.0	114.84

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 14 Tetrachloro-m-xylene	20.0	21.4	106.85
$ 15 DCB Decachlorobiphenyl	20.0	21.5	107.36

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver
Job No.: 280-168095-2
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 280-591039/4-A
Matrix: Waste
Lab File ID: 10250037.D
Analysis Method: 8082A
Date Collected:
Extraction Method: 3580A
Date Extracted: 10/24/2022 16:37
Sample wt/vol: 1(g)
Date Analyzed: 10/25/2022 20:56
Con. Extract Vol.: 10(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: CLP1 ID: 0.32(mm)
% Moisture: % Solids:
GPC Cleanup:(Y/N) N
Cleanup Factor:
Analysis Batch No.: 591125
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	2090		990	150
11096-82-5	PCB-1260	2290		990	80

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	102		53-128
2051-24-3	DCB Decachlorobiphenyl	112		59-130

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250037.D
Lims ID: LCS 280-591039/4-A
Client ID:
Sample Type: LCS
Inject. Date: 25-Oct-2022 20:56:24 ALS Bottle#: 37 Worklist Smp#: 37
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 280-591039/4
Misc. Info.: 280-0115461-037
Operator ID: SMP Instrument ID: SGC_P3

Method: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\PCB_P3.m
Limit Group: GCSV - 8082A - IS
Last Update: 26-Oct-2022 08:40:03 Calib Date: 25-Oct-2022 11:31:41
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
Process Host: CTX1658

First Level Reviewer: USP3 Date: 26-Oct-2022 08:12:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.194	3.194	0.000	130084165	100.0	100.0	
2	2.947	2.946	0.001	123905123	100.0	100.0	
						RPD = 0.00	
$ 14 Tetrachloro-m-xylene							
1	3.977	3.977	0.000	29505282	20.0	20.4	
2	3.833	3.833	0.000	29296590	20.0	21.3	
						RPD = 4.24	
1 PCB-1016							M
1	4.334	4.337	-0.003	6104206	200.0	217.0	
1	4.681	4.680	0.001	11597366	200.0	213.0	
1	5.131	5.147	-0.016	22924073	200.0	206.5	
1	5.287	5.287	0.000	9913187	200.0	207.5	
1	5.717	5.720	-0.003	10328079	200.0	199.7	
		Average of Peak Amounts =				208.8	
2	4.280	4.280	0.000	5666893	200.0	227.1	
2	4.653	4.653	0.000	11041646	200.0	215.1	
2	5.093	5.093	0.000	21995743	200.0	198.9	M
2	5.227	5.226	0.001	9164653	200.0	204.4	
2	5.710	5.710	0.000	7404559	200.0	211.0	
		Average of Peak Amounts =				211.3	
						RPD = 1.20	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12 PCB-1260							M
1	7.117	7.117	0.000	13946411	200.0	243.6	
1	7.457	7.457	0.000	20734178	200.0	227.1	
1	7.807	7.807	0.000	23254645	200.0	221.8	
1	8.667	8.667	0.000	30118493	200.0	226.4	M
1	9.041	9.040	0.001	15823508	200.0	226.8	
		Average of Peak Amounts =				229.1	
2	7.157	7.156	0.001	13349084	200.0	221.4	
2	7.417	7.416	0.001	16135304	200.0	221.7	
2	7.863	7.863	0.000	14987198	200.0	202.0	M
2	8.693	8.690	0.003	29354323	200.0	222.0	
2	9.177	9.173	0.004	21092214	200.0	218.3	
		Average of Peak Amounts =				217.1	
						RPD = 5.40	
$ 15 DCB Decachlorobiphenyl							
1	10.401	10.400	0.001	25574409	20.0	22.5	
2	10.567	10.566	0.001	24441113	20.0	21.3	
						RPD = 5.29	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

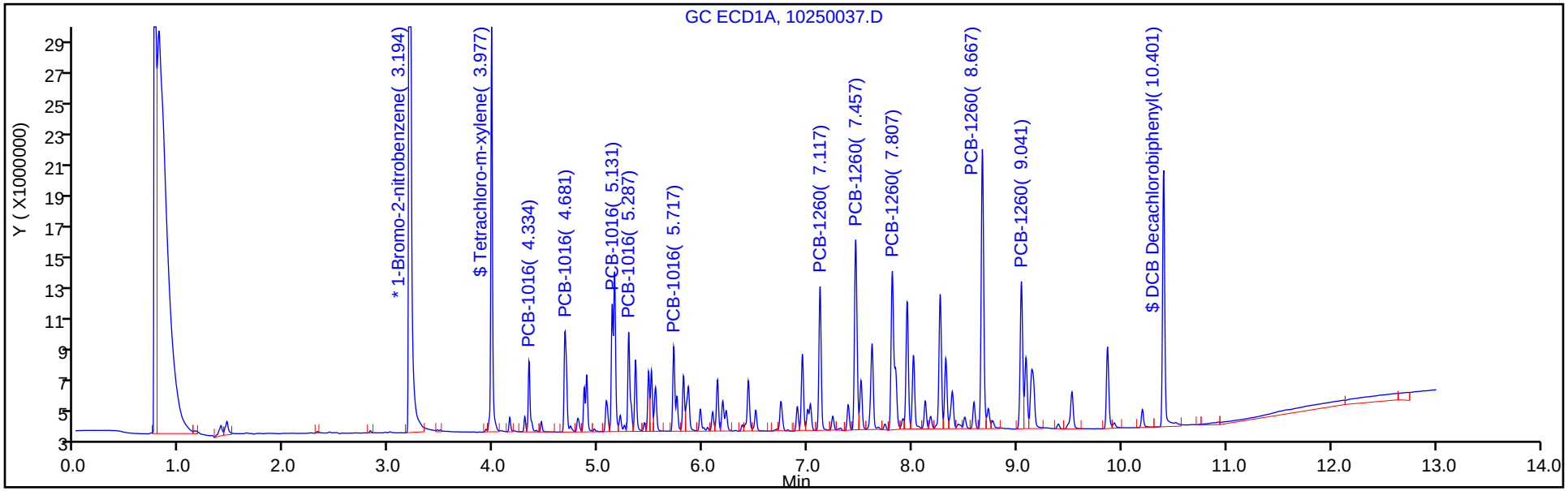
BNB IS_00023 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 26-Oct-2022 08:40:10 Chrom Revision: 2.3 28-Sep-2022 12:57:42

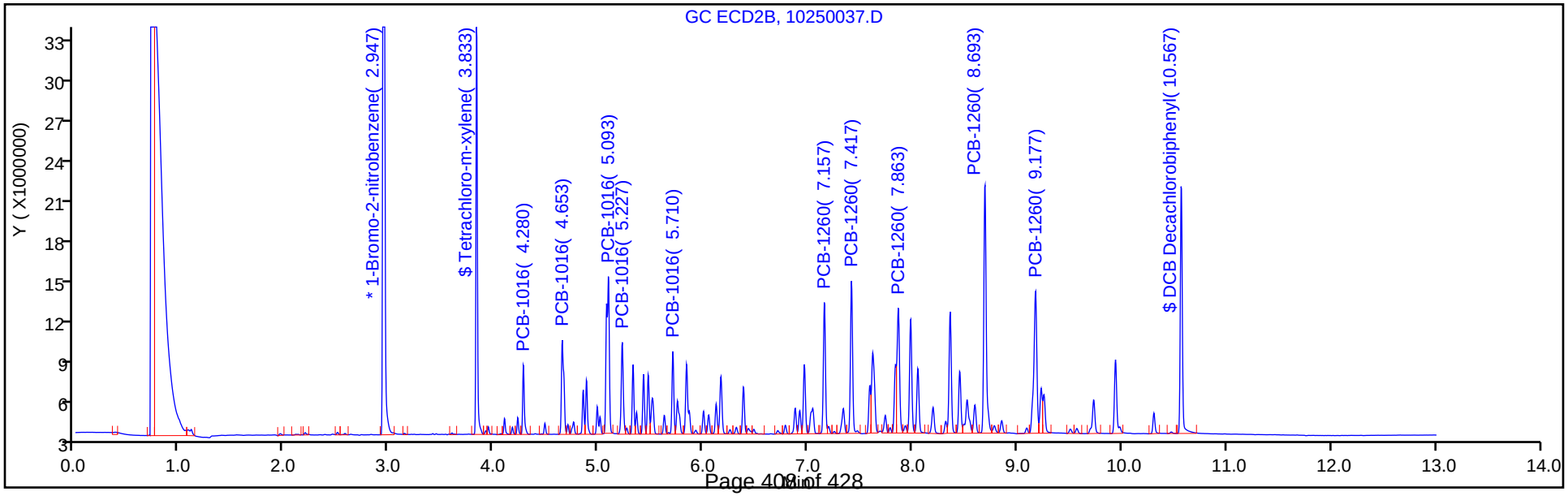
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250037.D				
Injection Date:	25-Oct-2022 20:56:24	Instrument ID:	SGC_P3	Operator ID:	SMP
Lims ID:	LCS 280-591039/4-A			Worklist Smp#:	37
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	37
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250037.D				
Lims ID:	LCS 280-591039/4-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	25-Oct-2022 20:56:24	ALS Bottle#:	37	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCS 280-591039/4				
Misc. Info.:	280-0115461-037				
Operator ID:	SMP	Instrument ID:	SGC_P3		
Method:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\PCB_P3.m				
Limit Group:	GCSV - 8082A - IS				
Last Update:	26-Oct-2022 08:40:03	Calib Date:	25-Oct-2022 11:31:41		
Integrator:	Falcon				
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D				
Column 1 :	CLP1 Pesticides Column 1 (0.32 mm)		Det: GC ECD1A		
Column 2 :	CLP2 Pesticides Column 2 (0.32 mm)		Det: GC ECD2B		
Process Host:	CTX1658				
First Level Reviewer: USP3		Date:	26-Oct-2022 08:12:40		

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 14 Tetrachloro-m-xylene	20.0	20.4	102.06
$ 15 DCB Decachlorobiphenyl	20.0	22.5	112.39

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 14 Tetrachloro-m-xylene	20.0	21.3	106.49
$ 15 DCB Decachlorobiphenyl	20.0	21.3	106.59

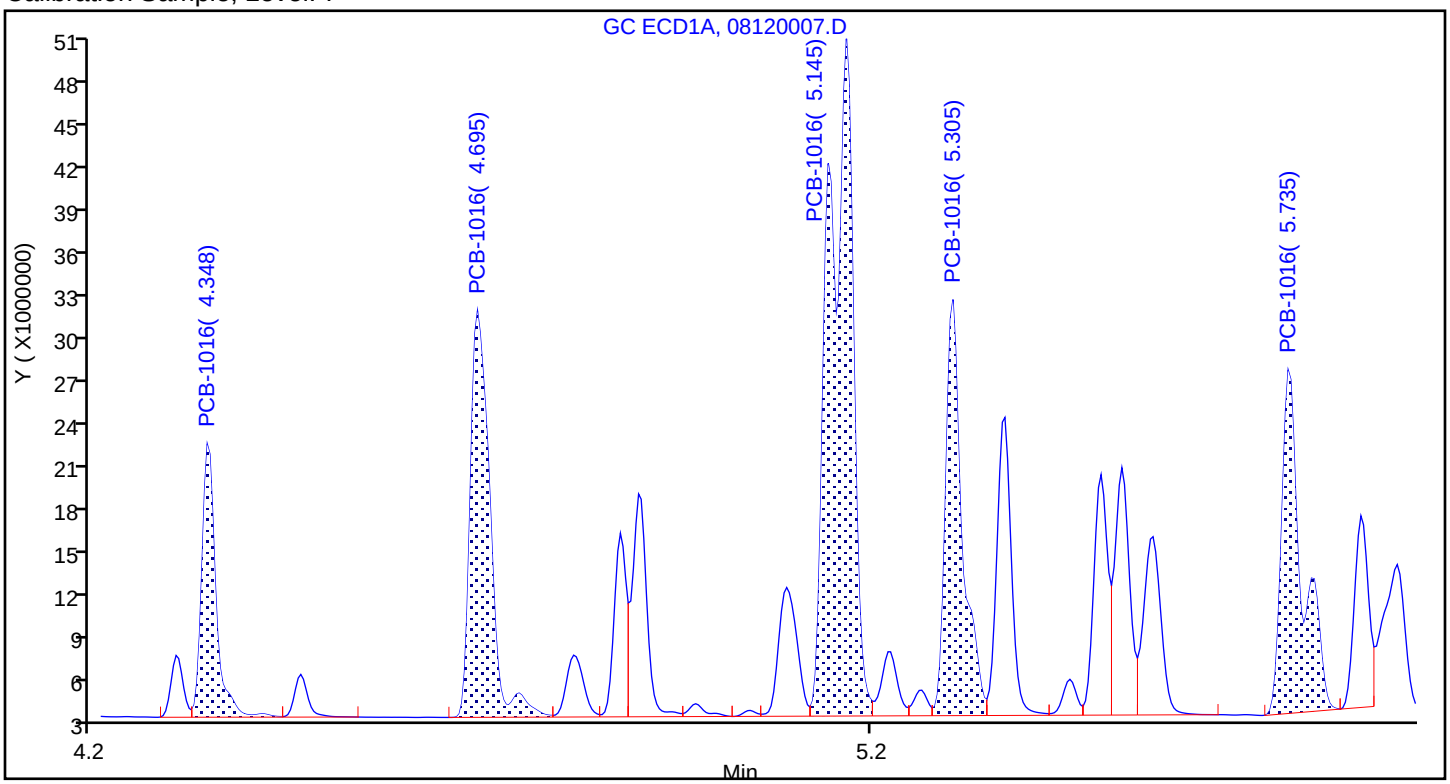
Report Date: 26-Oct-2022 08:40:10 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250037.D				
Injection Date:	25-Oct-2022 20:56:24	Instrument ID:	SGC_P3		
Lims ID:	LCS 280-591039/4-A				
Client ID:					
Operator ID:	SMP	ALS Bottle#:	37	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		
Column:	CLP1 Pesticides Column 1 (0.32 mm)	Detector	GC ECD1A		

1 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 7



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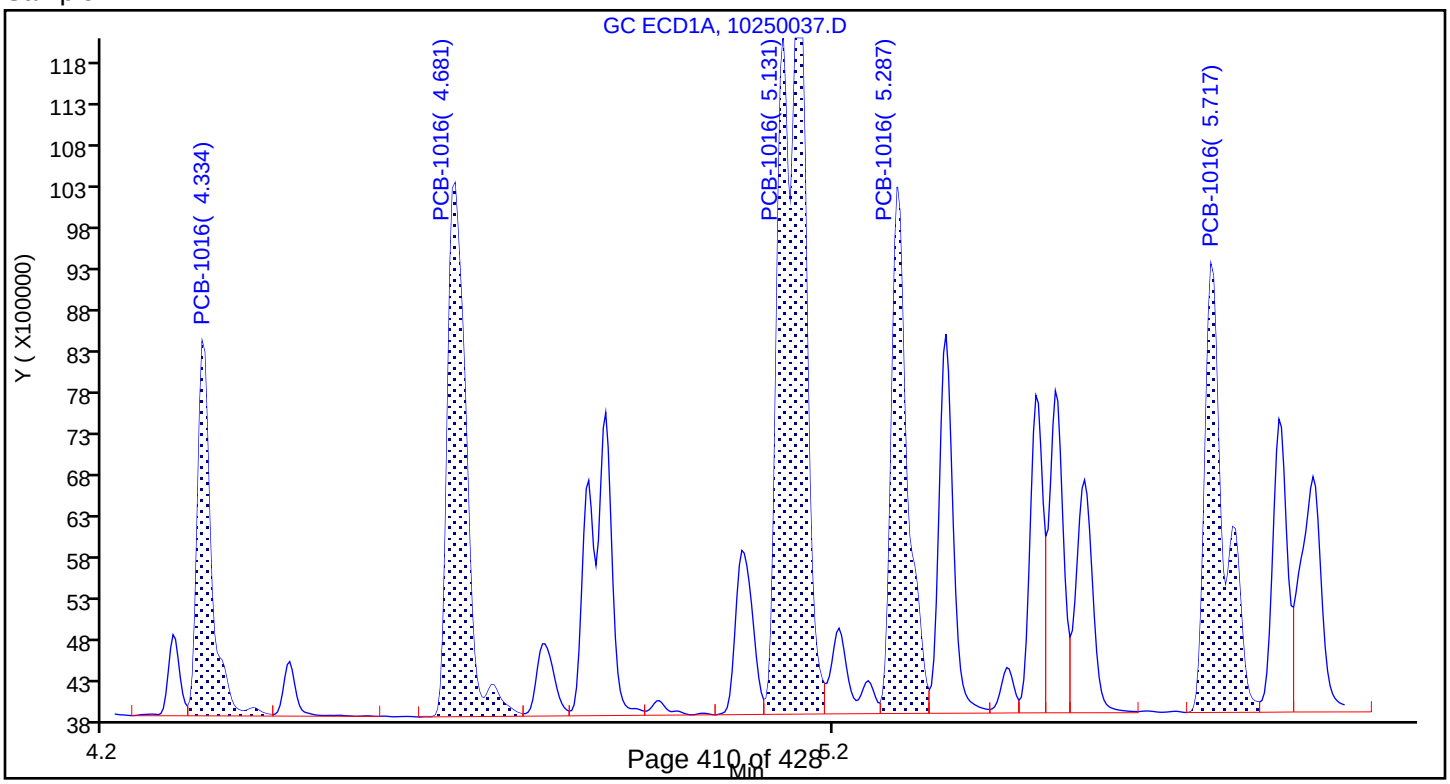


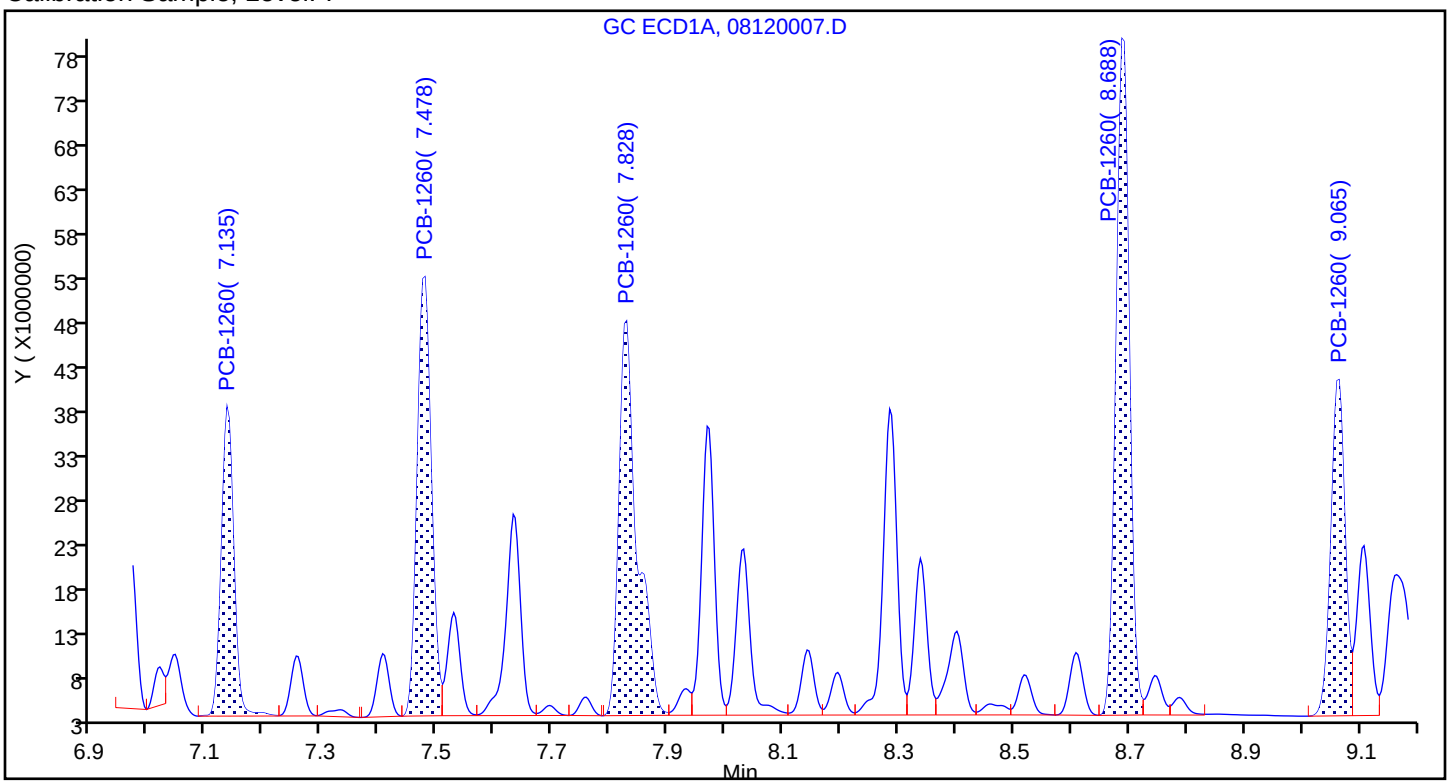
Report Date: 26-Oct-2022 08:40:11 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Denver

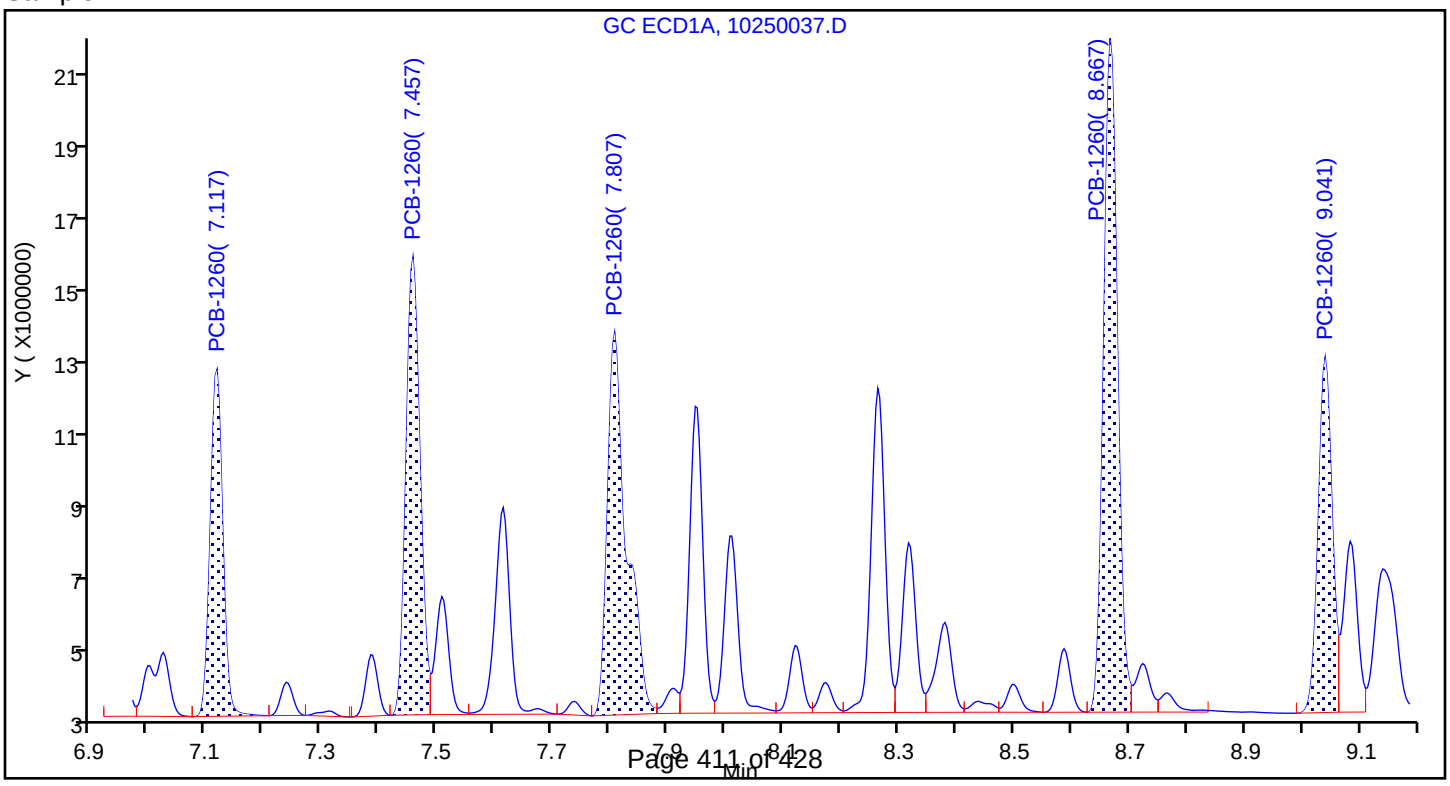
Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250037.D				
Injection Date:	25-Oct-2022 20:56:24	Instrument ID:	SGC_P3		
Lims ID:	LCS 280-591039/4-A				
Client ID:					
Operator ID:	SMP	ALS Bottle#:	37	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		
Column:	CLP1 Pesticides Column 1 (0.32 mm)	Detector	GC ECD1A		

12 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 7



Sample

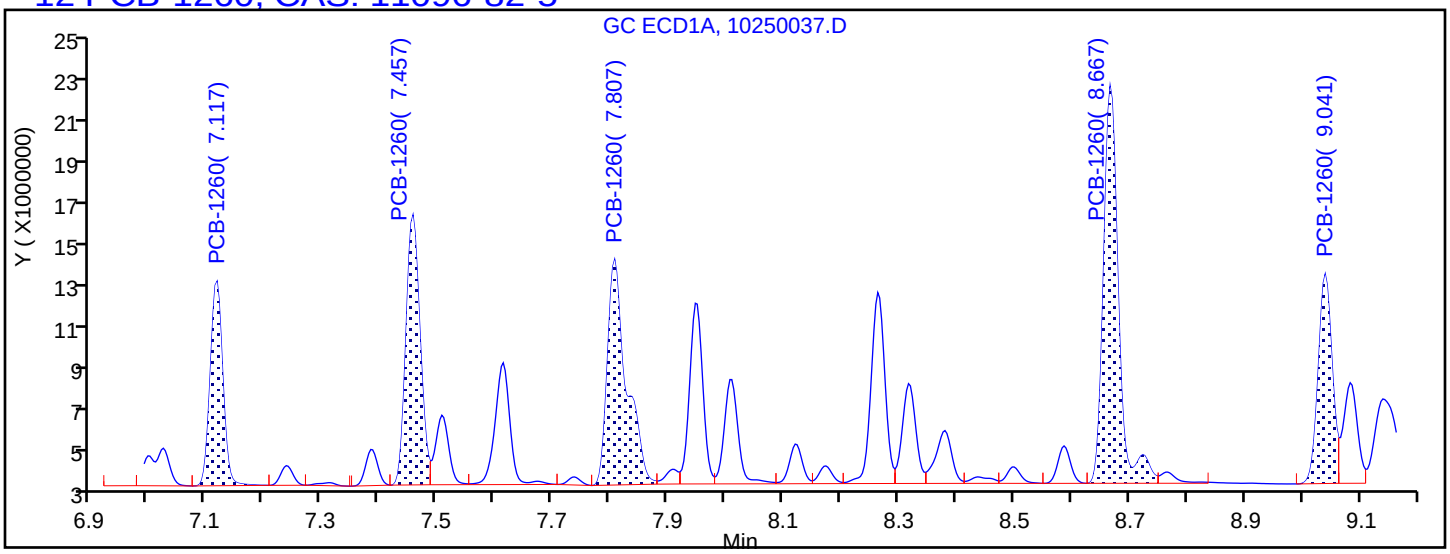


Report Date: 26-Oct-2022 08:40:11 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Denver

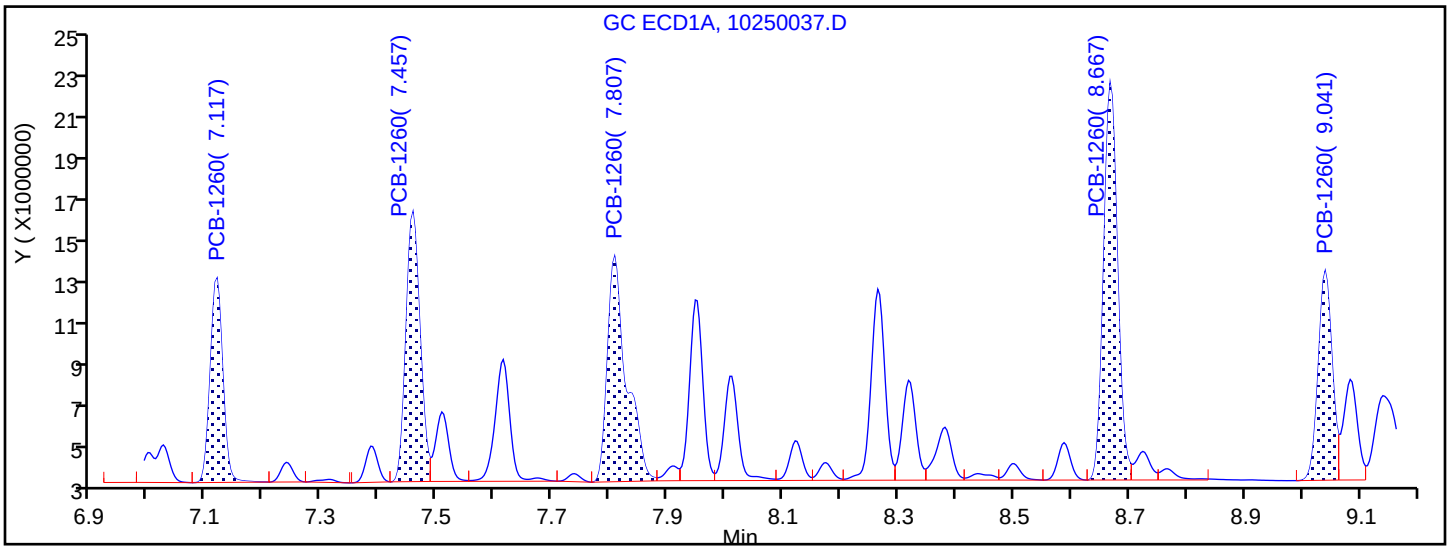
Data File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250037.D
Injection Date: 25-Oct-2022 20:56:24 Instrument ID: SGC_P3
Lims ID: LCS 280-591039/4-A
Client ID:
Operator ID: SMP ALS Bottle#: 37 Worklist Smp#: 37
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCB_P3 Limit Group: GCSV - 8082A - IS
Column: CLP1 Pesticides Column 1 (0.32 mm) Detector GC ECD1A

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

7.117	Response = 13946411
7.457	Response = 20734178
7.807	Response = 23254645
8.667	Response = 32474774
9.041	Response = 15823508



Manual Integration Results

7.117	Response = 13946411	
7.457	Response = 20734178	
7.807	Response = 23254645	
8.667	Response = 30118493	M
9.041	Response = 15823508	

Reviewer: USP3, 26-Oct-2022 08:12:15
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver
Job No.: 280-168095-2
SDG No.:
Client Sample ID:
Lab Sample ID: LCSD 280-591039/5-A
Matrix: Waste
Lab File ID: 10250038.D
Analysis Method: 8082A
Date Collected:
Extraction Method: 3580A
Date Extracted: 10/24/2022 16:37
Sample wt/vol: 1(g)
Date Analyzed: 10/25/2022 21:15
Con. Extract Vol.: 10(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: CLP1 ID: 0.32(mm)
% Moisture: % Solids:
GPC Cleanup:(Y/N) N
Cleanup Factor:
Analysis Batch No.: 591125
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	2190		990	150
11096-82-5	PCB-1260	2420		990	80

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	103		53-128
2051-24-3	DCB Decachlorobiphenyl	109		59-130

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250038.D
Lims ID: LCSD 280-591039/5-A
Client ID:
Sample Type: LCSD
Inject. Date: 25-Oct-2022 21:15:48 ALS Bottle#: 38 Worklist Smp#: 38
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 280-591039/
Misc. Info.: 280-0115461-038
Operator ID: SMP Instrument ID: SGC_P3

Method: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\PCB_P3.m
Limit Group: GCSV - 8082A - IS
Last Update: 26-Oct-2022 08:40:03 Calib Date: 25-Oct-2022 11:31:41
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D

Column 1 : CLP1 Pesticides Column 1 (0.32 mm) Det: GC ECD1A
Column 2 : CLP2 Pesticides Column 2 (0.32 mm) Det: GC ECD2B
Process Host: CTX1658

First Level Reviewer: USP3 Date: 26-Oct-2022 08:13:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
* 17 1-Bromo-2-nitrobenzene							
1	3.196	3.194	0.002	127790216	100.0	100.0	
2	2.946	2.946	0.000	121385269	100.0	100.0	
						RPD = 0.00	
$ 14 Tetrachloro-m-xylene							
1	3.980	3.977	0.003	29131215	20.0	20.5	
2	3.832	3.833	-0.001	28817010	20.0	21.4	
						RPD = 4.14	
1 PCB-1016							M
1	4.336	4.337	-0.001	6289691	200.0	227.6	
1	4.680	4.680	0.000	11915422	200.0	223.2	
1	5.133	5.147	-0.014	23616968	200.0	217.0	
1	5.290	5.287	0.003	10200467	200.0	217.8	
1	5.720	5.720	0.000	10653181	200.0	209.7	
		Average of Peak Amounts =				219.1	
2	4.279	4.280	-0.001	5835562	200.0	240.1	
2	4.652	4.653	-0.001	11352783	200.0	226.7	
2	5.092	5.093	-0.001	22810205	200.0	211.1	M
2	5.226	5.226	0.000	9377242	200.0	213.9	
2	5.709	5.710	-0.001	7582791	200.0	221.1	
		Average of Peak Amounts =				222.6	
						RPD = 1.58	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ml	OnCol Amt ng/ml	Flags
12 PCB-1260							M
1	7.116	7.117	-0.001	14499383	200.0	258.3	
1	7.460	7.457	0.003	21475968	200.0	240.3	
1	7.810	7.807	0.003	24011378	200.0	233.6	
1	8.670	8.667	0.003	31054789	200.0	238.2	M
1	9.043	9.040	0.003	16370734	200.0	239.4	
		Average of Peak Amounts =				242.0	
2	7.159	7.156	0.003	14662498	200.0	250.4	
2	7.416	7.416	0.000	16448858	200.0	231.3	
2	7.862	7.863	-0.001	15713897	200.0	217.1	
2	8.692	8.690	0.002	30220678	200.0	234.0	
2	9.176	9.173	0.003	21501295	200.0	227.8	
		Average of Peak Amounts =				232.1	
						RPD = 4.16	
$ 15 DCB Decachlorobiphenyl							
1	10.400	10.400	0.000	24275316	20.0	21.7	
2	10.566	10.566	0.000	23742105	20.0	21.1	
						RPD = 2.68	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

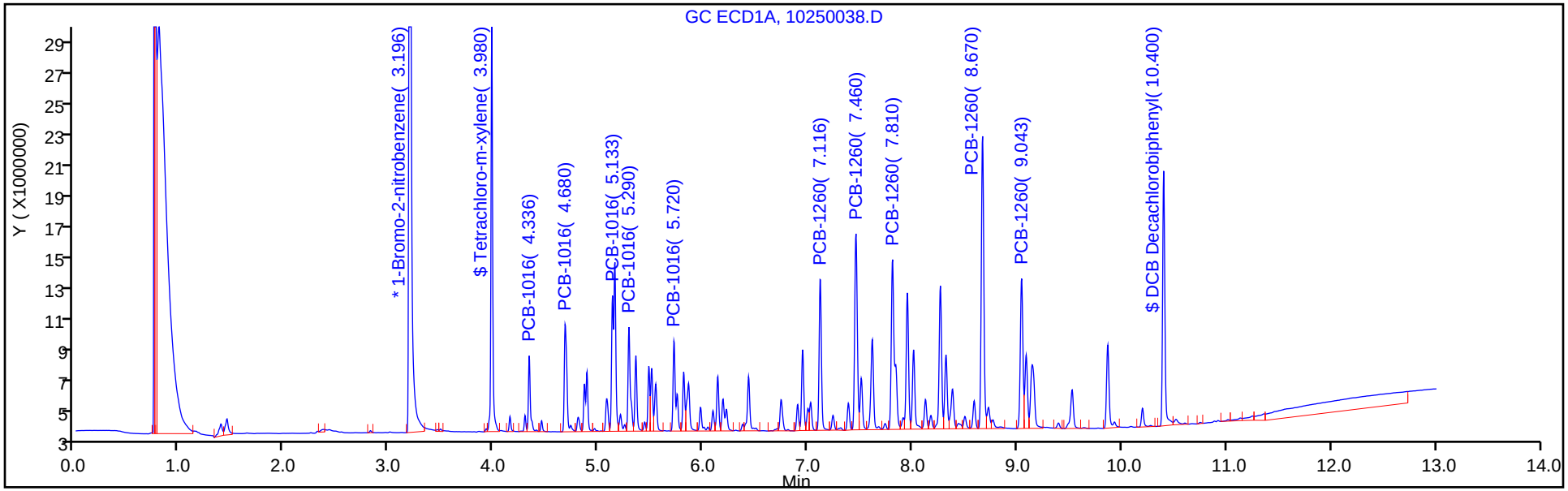
BNB IS_00023 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 26-Oct-2022 08:40:15 Chrom Revision: 2.3 28-Sep-2022 12:57:42

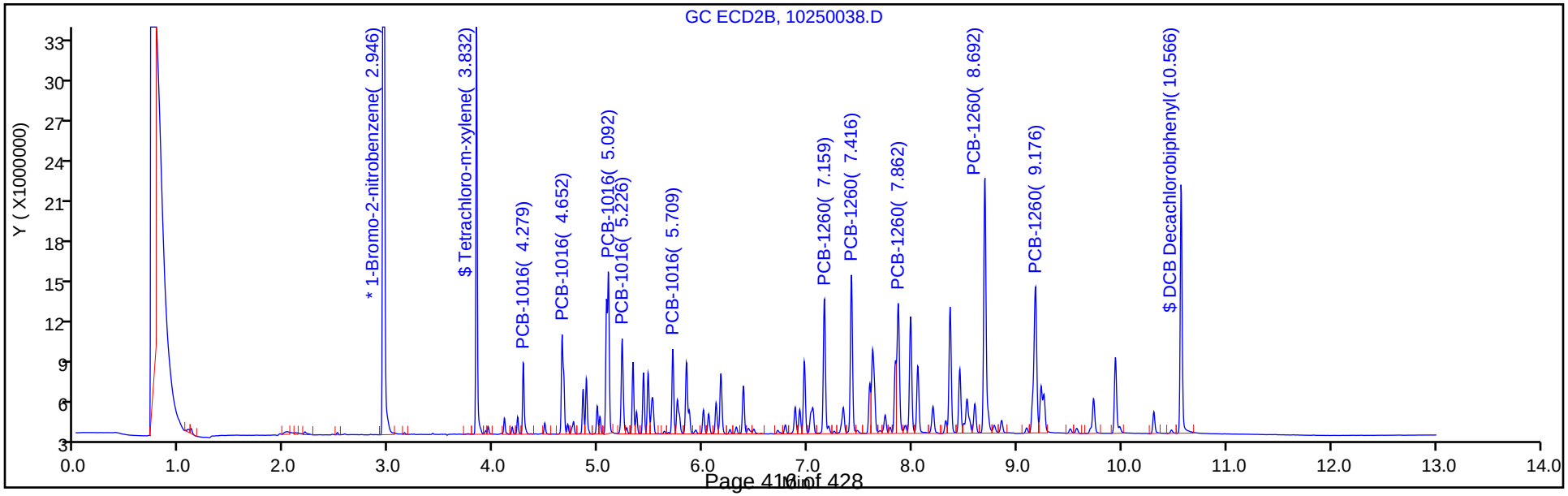
Eurofins Denver

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250038.D				
Injection Date:	25-Oct-2022 21:15:48	Instrument ID:	SGC_P3	Operator ID:	SMP
Lims ID:	LCSD 280-591039/5-A			Worklist Smp#:	38
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	38
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		

Column: CLP1 Pesticides Column 1 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: CLP2 Pesticides Column 2 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250038.D				
Lims ID:	LCSD 280-591039/5-A				
Client ID:					
Sample Type:	LCSD				
Inject. Date:	25-Oct-2022 21:15:48	ALS Bottle#:	38	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCSD 280-591039/				
Misc. Info.:	280-0115461-038				
Operator ID:	SMP	Instrument ID:	SGC_P3		

Method:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\PCB_P3.m		
Limit Group:	GCSV - 8082A - IS		
Last Update:	26-Oct-2022 08:40:03	Calib Date:	25-Oct-2022 11:31:41
Integrator:	Falcon		
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250007.D		

Column 1 :	CLP1 Pesticides Column 1 (0.32 mm)	Det: GC ECD1A
Column 2 :	CLP2 Pesticides Column 2 (0.32 mm)	Det: GC ECD2B
Process Host:	CTX1658	

First Level Reviewer: USP3 Date: 26-Oct-2022 08:13:32

Surrogate Recovery, Detector: GC ECD1A

Compound	Amount Added	Amount Recovered	% Rec.
$ 14 Tetrachloro-m-xylene	20.0	20.5	102.59
$ 15 DCB Decachlorobiphenyl	20.0	21.7	108.57

Surrogate Recovery, Detector: GC ECD2B

Compound	Amount Added	Amount Recovered	% Rec.
$ 14 Tetrachloro-m-xylene	20.0	21.4	106.93
$ 15 DCB Decachlorobiphenyl	20.0	21.1	105.69

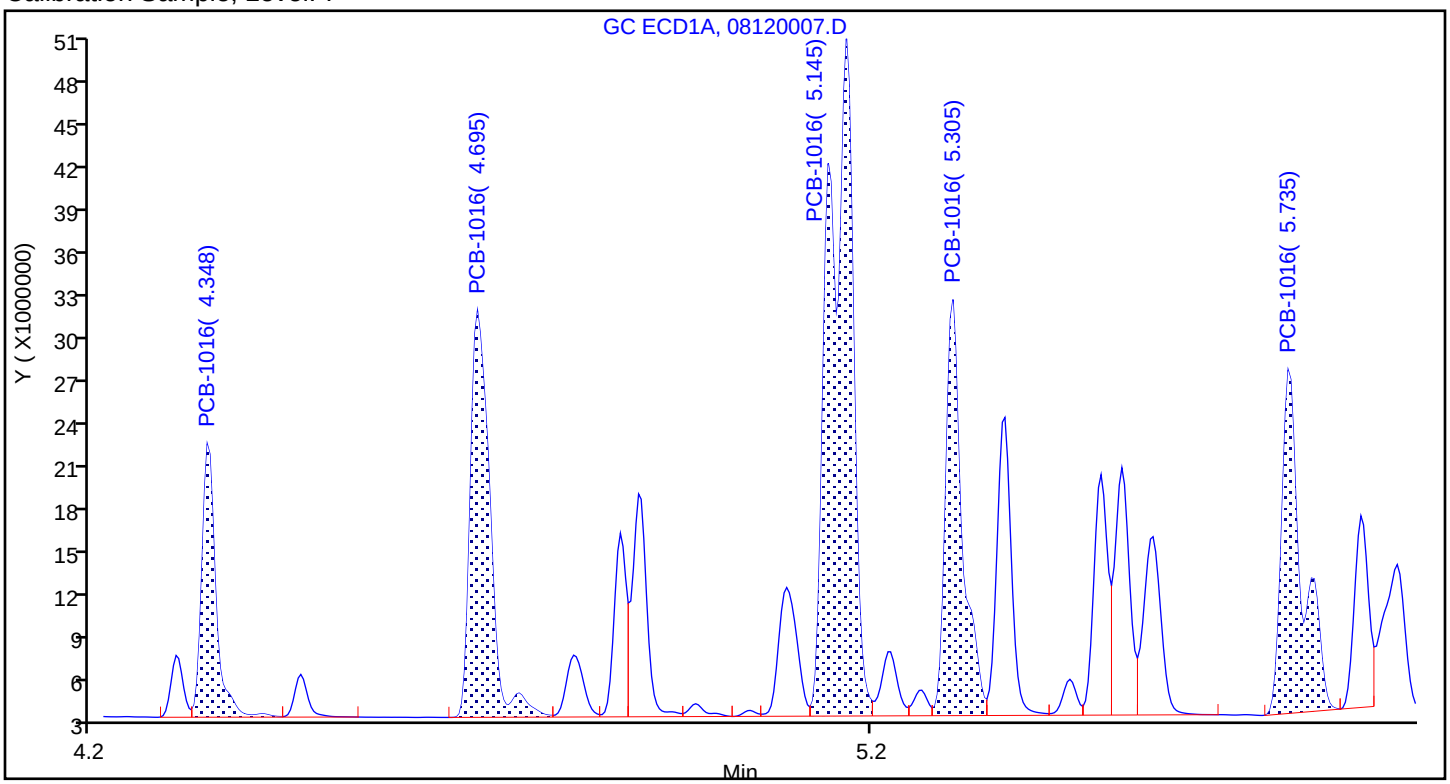
Report Date: 26-Oct-2022 08:40:15 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Denver

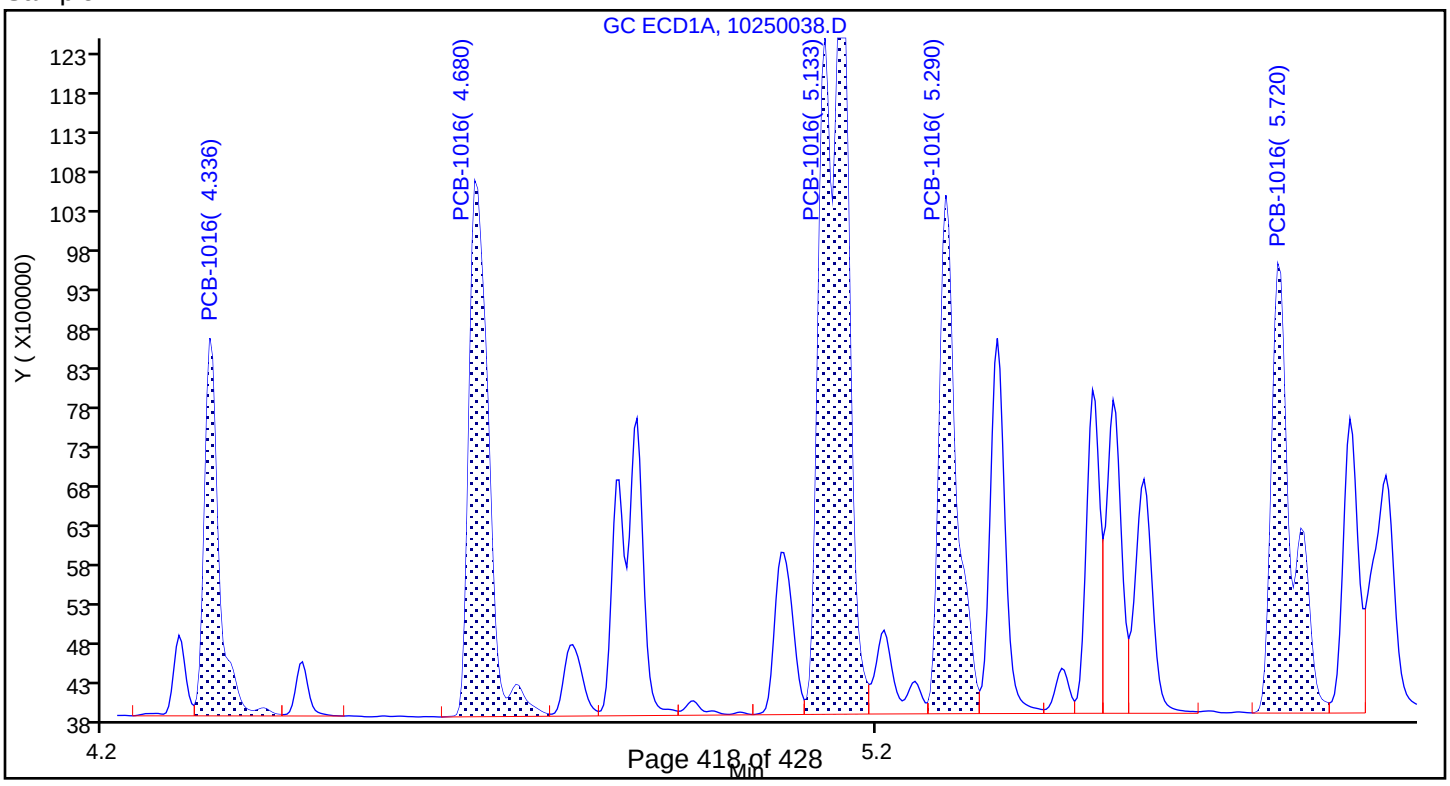
Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250038.D				
Injection Date:	25-Oct-2022 21:15:48	Instrument ID:	SGC_P3		
Lims ID:	LCSD 280-591039/5-A				
Client ID:					
Operator ID:	SMP	ALS Bottle#:	38	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		
Column:	CLP1 Pesticides Column 1 (0.32 mm)	Detector	GC ECD1A		

1 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 7



Sample



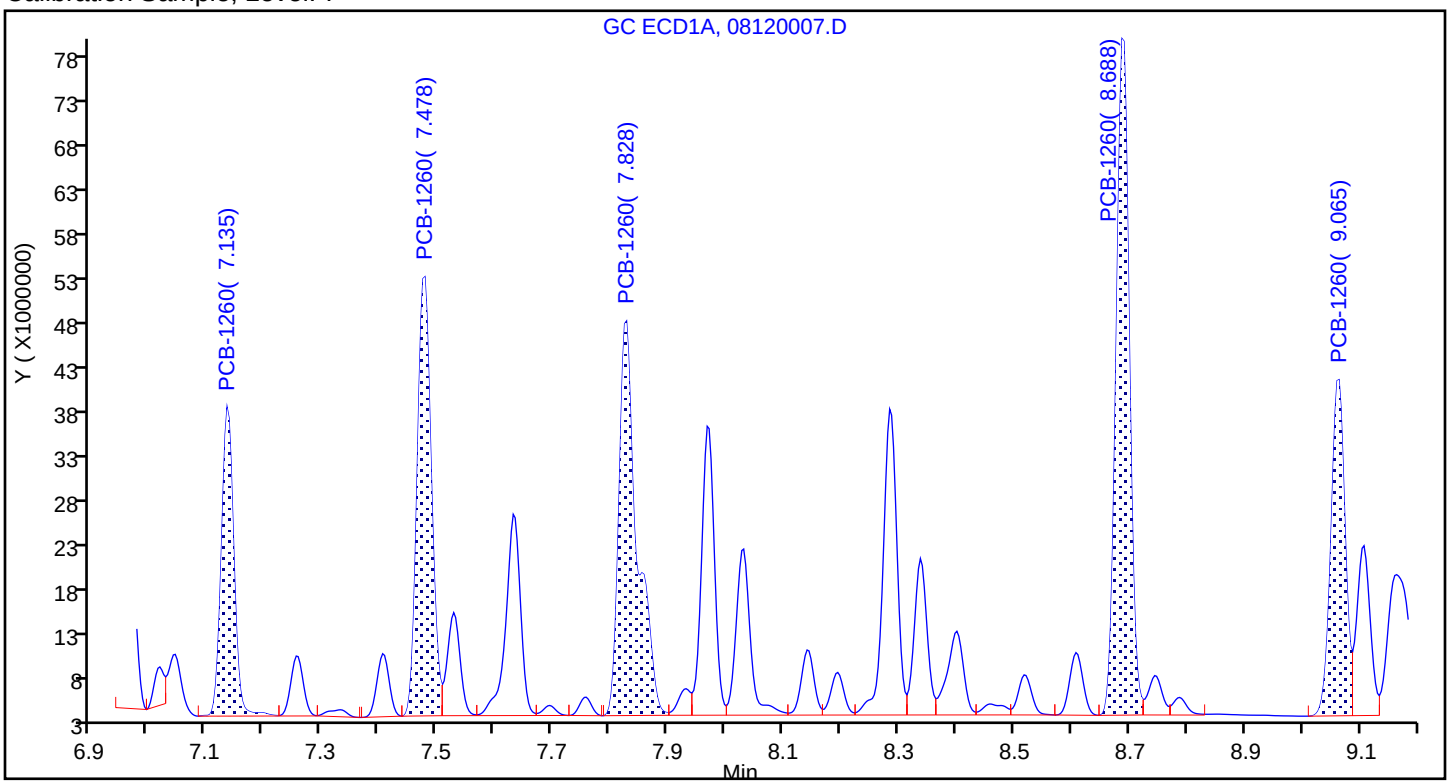
Report Date: 26-Oct-2022 08:40:15 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Denver

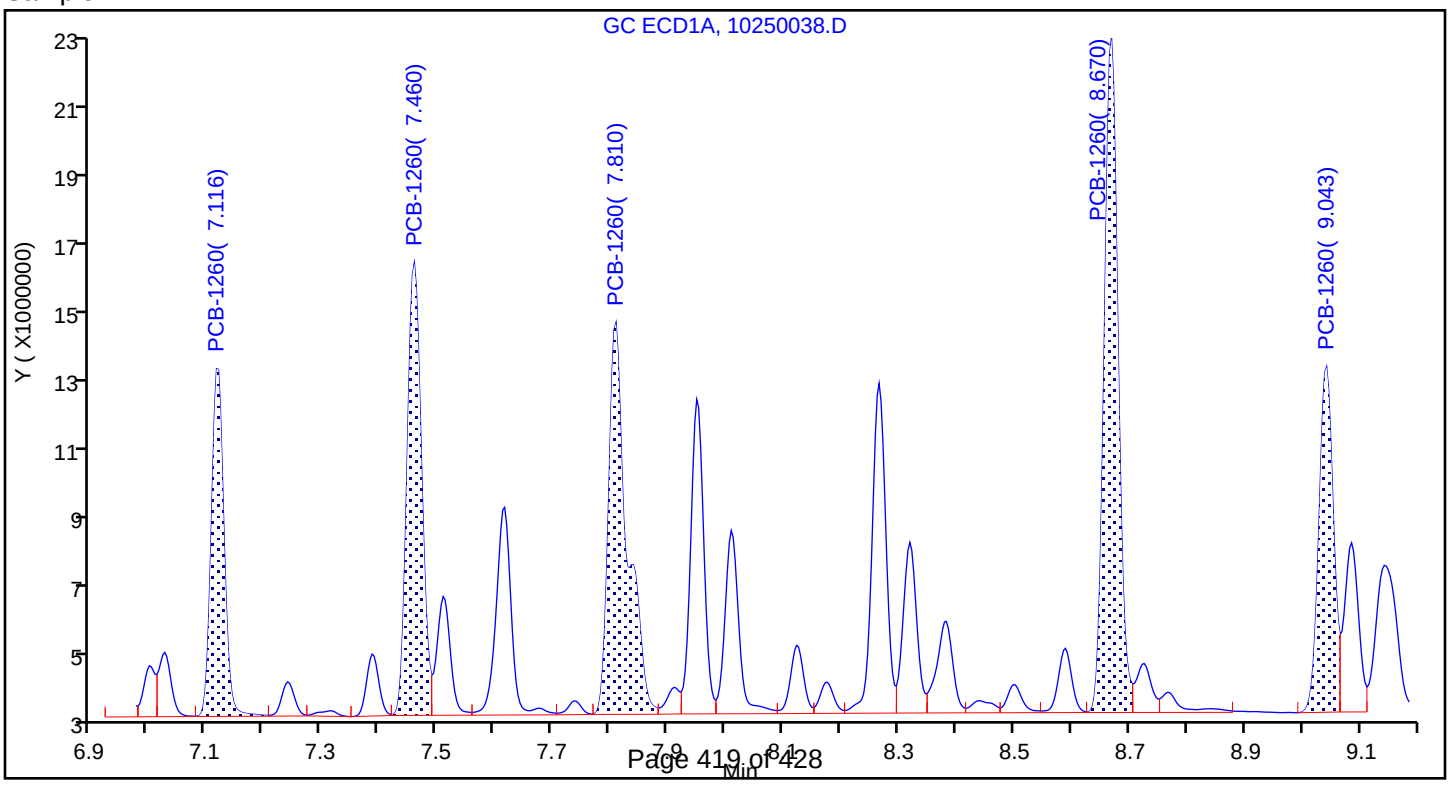
Data File:	\\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250038.D				
Injection Date:	25-Oct-2022 21:15:48	Instrument ID:	SGC_P3		
Lims ID:	LCSD 280-591039/5-A				
Client ID:					
Operator ID:	SMP	ALS Bottle#:	38	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCB_P3	Limit Group:	GCSV - 8082A - IS		
Column:	CLP1 Pesticides Column 1 (0.32 mm)	Detector	GC ECD1A		

12 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 7



Sample

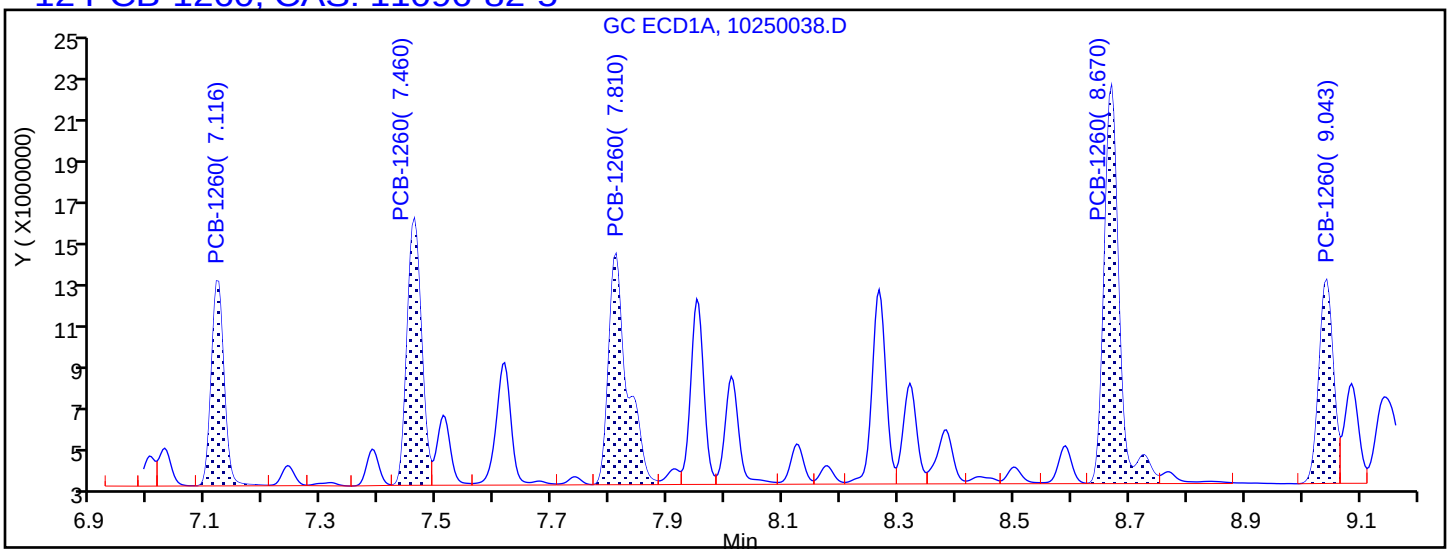


Report Date: 26-Oct-2022 08:40:15 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Denver

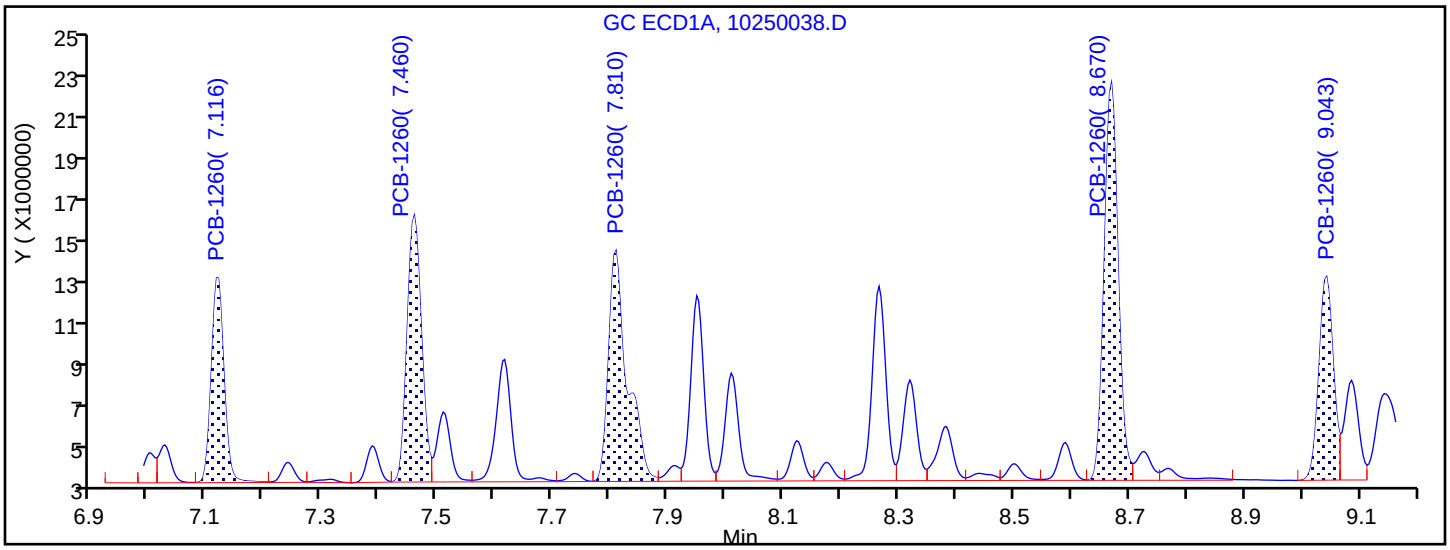
Data File: \\chromfs\Denver\ChromData\SGC_P3\20221025-115461.b\10250038.D
Injection Date: 25-Oct-2022 21:15:48 Instrument ID: SGC_P3
Lims ID: LCSD 280-591039/5-A
Client ID:
Operator ID: SMP ALS Bottle#: 38 Worklist Smp#: 38
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCB_P3 Limit Group: GCSV - 8082A - IS
Column: CLP1 Pesticides Column 1 (0.32 mm) Detector GC ECD1A

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

7.116	Response = 14499383
7.460	Response = 21475968
7.810	Response = 24011378
8.670	Response = 33553827
9.043	Response = 16370734



Manual Integration Results

7.116	Response = 14499383	
7.460	Response = 21475968	
7.810	Response = 24011378	
8.670	Response = 31054789	M
9.043	Response = 16370734	

Reviewer: USP3, 26-Oct-2022 08:13:19
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

PCBS ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Instrument ID: SGC_P3 Start Date: 08/12/2022 10:47

Analysis Batch Number: 583810 End Date: 08/12/2022 14:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD5 280-583810/3 IC		08/12/2022 10:47	1		CLP1 0.32(mm)
STD5 280-583810/3 IC		08/12/2022 10:47	1		CLP2 0.32(mm)
STD5 280-583810/4 IC		08/12/2022 11:06	1		CLP1 0.32(mm)
STD5 280-583810/4 IC		08/12/2022 11:06	1		CLP2 0.32(mm)
STD5 280-583810/5 IC		08/12/2022 11:26	1		CLP1 0.32(mm)
STD5 280-583810/5 IC		08/12/2022 11:26	1		CLP2 0.32(mm)
STD5 280-583810/6 IC		08/12/2022 11:46	1		CLP1 0.32(mm)
STD5 280-583810/6 IC		08/12/2022 11:46	1		CLP2 0.32(mm)
STD7 280-583810/7 IC		08/12/2022 12:05	1	08120007.D	CLP1 0.32(mm)
STD7 280-583810/7 IC		08/12/2022 12:05	1	08120007.D	CLP2 0.32(mm)
STD6 280-583810/8 IC		08/12/2022 12:25	1	08120008.D	CLP1 0.32(mm)
STD6 280-583810/8 IC		08/12/2022 12:25	1	08120008.D	CLP2 0.32(mm)
ICIS 280-583810/9		08/12/2022 12:44	1	08120009.D	CLP1 0.32(mm)
ICIS 280-583810/9		08/12/2022 12:44	1	08120009.D	CLP2 0.32(mm)
STD4 280-583810/10 IC		08/12/2022 13:04	1	08120010.D	CLP1 0.32(mm)
STD4 280-583810/10 IC		08/12/2022 13:04	1	08120010.D	CLP2 0.32(mm)
STD3 280-583810/11 IC		08/12/2022 13:23	1	08120011.D	CLP1 0.32(mm)
STD3 280-583810/11 IC		08/12/2022 13:23	1	08120011.D	CLP2 0.32(mm)
STD2 280-583810/12 IC		08/12/2022 13:43	1	08120012.D	CLP1 0.32(mm)
STD2 280-583810/12 IC		08/12/2022 13:43	1	08120012.D	CLP2 0.32(mm)
STD1 280-583810/13 IC		08/12/2022 14:02	1	08120013.D	CLP1 0.32(mm)
STD1 280-583810/13 IC		08/12/2022 14:02	1	08120013.D	CLP2 0.32(mm)
ICV 280-583810/14		08/12/2022 14:22	1	08120014.D	CLP1 0.32(mm)
ICV 280-583810/14		08/12/2022 14:22	1	08120014.D	CLP2 0.32(mm)
ZZZZZ		08/12/2022 14:41	1		CLP1 0.32(mm)
ZZZZZ		08/12/2022 14:41	1		CLP2 0.32(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Instrument ID: SGC_P3 Start Date: 10/25/2022 10:17

Analysis Batch Number: 591125 End Date: 10/26/2022 05:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 280-591125/3		10/25/2022 10:17	1	10250003.D	CLP1 0.32(mm)
CCVIS 280-591125/3		10/25/2022 10:17	1	10250003.D	CLP2 0.32(mm)
STD5 280-591125/4 IC		10/25/2022 10:36	1	10250004.D	CLP1 0.32(mm)
STD5 280-591125/4 IC		10/25/2022 10:36	1	10250004.D	CLP2 0.32(mm)
STD5 280-591125/5 IC		10/25/2022 10:54	1	10250005.D	CLP1 0.32(mm)
STD5 280-591125/5 IC		10/25/2022 10:54	1	10250005.D	CLP2 0.32(mm)
STD5 280-591125/6 IC		10/25/2022 11:13	1	10250006.D	CLP1 0.32(mm)
STD5 280-591125/6 IC		10/25/2022 11:13	1	10250006.D	CLP2 0.32(mm)
STD5 280-591125/7 IC		10/25/2022 11:31	1	10250007.D	CLP1 0.32(mm)
STD5 280-591125/7 IC		10/25/2022 11:31	1	10250007.D	CLP2 0.32(mm)
ZZZZZ		10/25/2022 11:50	1		CLP1 0.32(mm)
ZZZZZ		10/25/2022 11:50	1		CLP2 0.32(mm)
ZZZZZ		10/25/2022 12:08	1		CLP1 0.32(mm)
ZZZZZ		10/25/2022 12:08	1		CLP2 0.32(mm)
ZZZZZ		10/25/2022 12:27	1		CLP1 0.32(mm)
ZZZZZ		10/25/2022 12:27	1		CLP2 0.32(mm)
ZZZZZ		10/25/2022 12:45	1		CLP1 0.32(mm)
ZZZZZ		10/25/2022 12:45	1		CLP2 0.32(mm)
ZZZZZ		10/25/2022 13:05	1		CLP1 0.32(mm)
ZZZZZ		10/25/2022 13:05	1		CLP2 0.32(mm)
ZZZZZ		10/25/2022 13:24	1		CLP1 0.32(mm)
ZZZZZ		10/25/2022 13:24	1		CLP2 0.32(mm)
ZZZZZ		10/25/2022 13:44	1		CLP1 0.32(mm)
ZZZZZ		10/25/2022 13:44	1		CLP2 0.32(mm)
CCV 280-591125/15		10/25/2022 14:03	1	10250015.D	CLP1 0.32(mm)
CCV 280-591125/15		10/25/2022 14:03	1	10250015.D	CLP2 0.32(mm)
CCV 280-591125/26		10/25/2022 17:29	1	10250026.D	CLP1 0.32(mm)
CCV 280-591125/26		10/25/2022 17:29	1	10250026.D	CLP2 0.32(mm)
CCV 280-591125/35		10/25/2022 20:19	1	10250035.D	CLP1 0.32(mm)
CCV 280-591125/35		10/25/2022 20:19	1	10250035.D	CLP2 0.32(mm)
MB 280-591039/1-A		10/25/2022 20:37	1	10250036.D	CLP1 0.32(mm)
MB 280-591039/1-A		10/25/2022 20:37	1	10250036.D	CLP2 0.32(mm)
LCS 280-591039/4-A		10/25/2022 20:56	1	10250037.D	CLP1 0.32(mm)
LCS 280-591039/4-A		10/25/2022 20:56	1	10250037.D	CLP2 0.32(mm)
LCSD 280-591039/5-A		10/25/2022 21:15	1	10250038.D	CLP1 0.32(mm)
LCSD 280-591039/5-A		10/25/2022 21:15	1	10250038.D	CLP2 0.32(mm)
ZZZZZ		10/25/2022 21:35	20		CLP1 0.32(mm)
ZZZZZ		10/25/2022 21:35	20		CLP2 0.32(mm)
ZZZZZ		10/25/2022 21:53	1		CLP1 0.32(mm)
ZZZZZ		10/25/2022 21:53	1		CLP2 0.32(mm)
ZZZZZ		10/25/2022 22:12	1		CLP1 0.32(mm)
ZZZZZ		10/25/2022 22:12	1		CLP2 0.32(mm)
ZZZZZ		10/25/2022 22:30	1		CLP1 0.32(mm)
ZZZZZ		10/25/2022 22:30	1		CLP2 0.32(mm)
280-168095-4	BS-T-01-BIG	10/25/2022 22:49	10	10250043.D	CLP1 0.32(mm)

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PCBS ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Instrument ID: SGC_P3 Start Date: 10/25/2022 10:17

Analysis Batch Number: 591125 End Date: 10/26/2022 05:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
280-168095-4	BS-T-01-BIG	10/25/2022 22:49	10	10250043.D	CLP2 0.32(mm)
280-168095-5	BS-T-02-SMALL	10/25/2022 23:07	20	10250044.D	CLP1 0.32(mm)
280-168095-5	BS-T-02-SMALL	10/25/2022 23:07	20	10250044.D	CLP2 0.32(mm)
ZZZZZ		10/25/2022 23:25	20		CLP1 0.32(mm)
ZZZZZ		10/25/2022 23:25	20		CLP2 0.32(mm)
ZZZZZ		10/25/2022 23:44	200		CLP1 0.32(mm)
ZZZZZ		10/25/2022 23:44	200		CLP2 0.32(mm)
CCV 280-591125/47		10/26/2022 00:02	1	10250047.D	CLP1 0.32(mm)
CCV 280-591125/47		10/26/2022 00:02	1	10250047.D	CLP2 0.32(mm)
ZZZZZ		10/26/2022 00:21	50		CLP1 0.32(mm)
ZZZZZ		10/26/2022 00:21	50		CLP2 0.32(mm)
ZZZZZ		10/26/2022 00:39	20		CLP1 0.32(mm)
ZZZZZ		10/26/2022 00:39	20		CLP2 0.32(mm)
ZZZZZ		10/26/2022 00:58	10		CLP1 0.32(mm)
ZZZZZ		10/26/2022 00:58	10		CLP2 0.32(mm)
ZZZZZ		10/26/2022 01:16	10		CLP1 0.32(mm)
ZZZZZ		10/26/2022 01:16	10		CLP2 0.32(mm)
ZZZZZ		10/26/2022 01:35	10		CLP1 0.32(mm)
ZZZZZ		10/26/2022 01:35	10		CLP2 0.32(mm)
ZZZZZ		10/26/2022 01:53	10		CLP1 0.32(mm)
ZZZZZ		10/26/2022 01:53	10		CLP2 0.32(mm)
ZZZZZ		10/26/2022 02:11	20		CLP1 0.32(mm)
ZZZZZ		10/26/2022 02:11	20		CLP2 0.32(mm)
ZZZZZ		10/26/2022 02:30	10		CLP1 0.32(mm)
ZZZZZ		10/26/2022 02:30	10		CLP2 0.32(mm)
ZZZZZ		10/26/2022 02:48	10		CLP1 0.32(mm)
ZZZZZ		10/26/2022 02:48	10		CLP2 0.32(mm)
ZZZZZ		10/26/2022 03:07	10		CLP1 0.32(mm)
ZZZZZ		10/26/2022 03:07	10		CLP2 0.32(mm)
CCV 280-591125/58		10/26/2022 03:25	1		CLP1 0.32(mm)
CCV 280-591125/58		10/26/2022 03:25	1		CLP2 0.32(mm)
ZZZZZ		10/26/2022 03:43	10		CLP1 0.32(mm)
ZZZZZ		10/26/2022 03:43	10		CLP2 0.32(mm)
CCV 280-591125/64		10/26/2022 05:16	1		CLP1 0.32(mm)
CCV 280-591125/64		10/26/2022 05:16	1		CLP2 0.32(mm)

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PCBS BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Batch Number: 583810 Batch Start Date: 08/12/22 10:47 Batch Analyst: Polite, Sean

Batch Method: 8082A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	AR_1660_ICV 00024	AR_1660_L7 00040	BNB IS 00022		
STD7 280-583810/7 IC		8082A		1.0 mL		200 uL	20 uL		
STD6 280-583810/8 IC		8082A		1.0 mL		150 uL	20 uL		
ICIS 280-583810/9		8082A				100 uL	20 uL		
STD4 280-583810/10 IC		8082A				40 uL	20 uL		
STD3 280-583810/11 IC		8082A				20 uL	20 uL		
STD2 280-583810/12 IC		8082A				10 uL	20 uL		
STD1 280-583810/13 IC		8082A				5 uL	20 uL		
ICV 280-583810/14		8082A			200 uL		20 uL		

Batch Notes	
Batch Comment	SMP (trainee) \ MW (trainer)

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PCBS BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-168095-2

SDG No.:

Batch Number: 591039 Batch Start Date: 10/24/22 16:37 Batch Analyst: Lande, Gregory M

Batch Method: 3580A Batch End Date: 10/24/22 16:46

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8081/82WDSurr 00059	8082WDLCS 00032	AnalysisComment	
MB 280-591039/1		3580A, 8082A		1 g	10 mL	1 mL			
LCS 280-591039/4		3580A, 8082A		1 g	10 mL	1 mL	1 mL	8082	
LCSD 280-591039/5		3580A, 8082A		1 g	10 mL	1 mL	1 mL	8082	
280-168095-A-4	BS-T-01-BIG	3580A, 8082A	T	1.0 g	10 mL	1 mL			
280-168095-A-5	BS-T-02-SMALL	3580A, 8082A	T	1.0 g	10 mL	1 mL			

Batch Notes	
Method/Fraction	3850A/8082A/8082A_DOD5
Balance ID	24750402
Pipette/Syringe/Dispenser ID	ROSE/ syringe
Analyst ID - Extraction	EW
Blank Matrix ID	216016
Analyst ID - Spike Analyst	EW
Analyst ID - Spike Witness Analyst	REVIEWER: NC
Sufficient Volume for Batch QC	NO
Prep Solvent ID	Hexane_Cycl_00076
Batch Comment	DV-OP-0012

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Eurofins TestAmerica, Denver
4955 Yarrow Street

Arvada, CO 80002-4517
phone 303.736.0100 fax 303.431.7171

Chain of Custody Record

eurofins Environment Testing America

Regulatory Program: ☐ DW ☐ NPDES ☑ RCRA ☐ Other:

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact	**Project Manager: Brian Croft**	**Site Contact: Brian Croft**	**Date: 10/21/22**	COC No:
Tetra Tech Region 8 START	Email: Brian.Croft@tetratech.com	**Lab Contact: Maura McAleese**	**Carrier:**	___1___ of ___1___ COCs
1560 Broadway Suite 14000	**Tel/Fax:**			TALS Project #:
Denver, Colorado 80202	**Analysis Turnaround Time**			Sampler:
(xxx) xxx-xxxx Phone	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
(xxx) xxx-xxxx FAX	**TAT: 3 day PCB; 4 day TCLP Metals**			Walk-in Client:
Project Name: Basin School Chemical ER	☐ 2 weeks			Lab Sampling:
Site: Basin, WY	☐ 1 week			
P O # TBD - see Shelby Turner	☐ 2 days			Job / SDG No.:
	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TCLP RCRA Metals 1311/7470/6010	Waste Dilution PCBs 3580/8082A	Sample Specific Notes:
BS-T-01-BIG	10/19/2022	13:40	G	Oil	1				x	
BS-T-02-SMALL	10/19/2022	13:50	G	Oil	1				x	
BS-DISPOSAL-01	10/19/2022	15:50	C	Non-soil solid	3			x		

280-168095 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:
Project number TBD - waiting on technical directive from EPA
Please narrate reasons for all dilutions; please notify ASAP of any delays

Please return cooler to. 5026 W 58th Ave Arvada CO 80002

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 24.4 Corr'd: 24.4 Therm ID No.: 12

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Maura McAleese	Tetra Tech	15:15 10/21/20	Affiat	Eurofins	10/21/2022 1515
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 280-168095-2

Login Number: 168095
List Number: 1
Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Refer to Job Narrative for details.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	False	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	