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Supplemental Report 1

The original report has been revised to include the Level III deliverables package.

WORK ORDER NUMBER: 17-03-0531

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Andersen Environmental

Client Project Name: Burbank Airport / 9836002041

Attention: Brian Martasin
5261 West Imperial Highway
Los Angeles, CA 90045-6231

Approved for release on 04/07/2017 by:
Stephen Nowak
Project Manager

ResultLink ▸

Email your PM ▸

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Contents

Client Project Name: Burbank Airport / 9836002041
Work Order Number: 17-03-0531

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Work Order Narrative

Work Order: 17-03-0531 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/07/17. They were assigned to Work Order 17-03-0531.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Sample Summary

Client:	Andersen Environmental 5261 West Imperial Highway Los Angeles, CA 90045-6231	Work Order:	17-03-0531
		Project Name:	Burbank Airport / 9836002041
		PO Number:	
		Date/Time Received:	03/07/17 17:50
		Number of Containers:	35
Attn:	Brian Martasin		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
D-DU1-S-02-3	17-03-0531-1	03/07/17 10:30	1	Solid
D-DU1-S-02-8	17-03-0531-2	03/07/17 10:32	1	Solid
D-DU1-S-02-15	17-03-0531-3	03/07/17 10:38	1	Solid
D-DU1-S-03-3	17-03-0531-4	03/07/17 09:55	1	Solid
D-DU1-S-03-8	17-03-0531-5	03/07/17 10:02	1	Solid
D-DU1-S-03-15	17-03-0531-6	03/07/17 10:15	1	Solid
D-DU1-S-04-3	17-03-0531-7	03/07/17 13:05	1	Solid
D-DU1-S-04-8	17-03-0531-8	03/07/17 13:10	1	Solid
D-DU1-S-04-15	17-03-0531-9	03/07/17 13:15	1	Solid
D-DU1-S-05-3	17-03-0531-10	03/07/17 12:40	1	Solid
D-DU1-S-05-8	17-03-0531-11	03/07/17 12:45	1	Solid
D-DU1-S-05-15	17-03-0531-12	03/07/17 12:50	1	Solid
D-DU1-S-06-3	17-03-0531-13	03/07/17 09:30	1	Solid
D-DU1-S-06-8	17-03-0531-14	03/07/17 09:32	1	Solid
D-DU1-S-06-15	17-03-0531-15	03/07/17 09:38	1	Solid
D-DU1-S-07-3	17-03-0531-16	03/07/17 13:33	1	Solid
D-DU1-S-07-8	17-03-0531-17	03/07/17 13:40	1	Solid
D-DU1-S-07-15	17-03-0531-18	03/07/17 13:45	1	Solid
D-DU1-S-08-1	17-03-0531-19	03/07/17 13:55	1	Solid
D-DU1-S-08-3	17-03-0531-20	03/07/17 13:55	1	Solid
D-DU1-S-08-8	17-03-0531-21	03/07/17 14:00	1	Solid
D-DU1-S-08-15	17-03-0531-22	03/07/17 14:03	1	Solid
D-DU1-S-09-3	17-03-0531-23	03/07/17 14:13	1	Solid
D-DU1-S-09-8	17-03-0531-24	03/07/17 14:20	1	Solid
D-DU1-S-09-15	17-03-0531-25	03/07/17 14:25	1	Solid
D-DU1-S-10-1	17-03-0531-26	03/07/17 14:38	1	Solid
D-DU1-S-10-3	17-03-0531-27	03/07/17 14:38	1	Solid
D-DU1-S-10-8	17-03-0531-28	03/07/17 14:40	1	Solid
D-DU1-S-10-15	17-03-0531-29	03/07/17 14:43	1	Solid
D-DU1-S-11-3	17-03-0531-30	03/07/17 09:05	1	Solid
D-DU1-S-11-8	17-03-0531-31	03/07/17 09:08	1	Solid
D-DU1-S-11-15	17-03-0531-32	03/07/17 09:18	1	Solid
D-DU1-S-01-3	17-03-0531-33	03/07/17 14:50	1	Solid
D-DU1-S-01-8	17-03-0531-34	03/07/17 14:55	1	Solid
D-DU1-S-01-15	17-03-0531-35	03/07/17 15:05	1	Solid

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Detections Summary

Client:	Andersen Environmental	Work Order:	17-03-0531
	5261 West Imperial Highway	Project Name:	Burbank Airport / 9836002041
	Los Angeles, CA 90045-6231	Received:	03/07/17
Attn:	Brian Martasin		Page 1 of 1

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
D-DU1-S-08-1 (17-03-0531-19)						
Moisture	5.1		0.10	%	ASTM D-2216 (M)	N/A
D-DU1-S-10-1 (17-03-0531-26)						
Moisture	1.9		0.10	%	ASTM D-2216 (M)	N/A
4,4'-DDT	6.3		5.1	ug/kg	EPA 8081A	EPA 3545

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

Andersen Environmental
5261 West Imperial Highway
Los Angeles, CA 90045-6231

Date Received: 03/07/17
Work Order: 17-03-0531
Preparation: N/A
Method: ASTM D-2216 (M)
Units: %

Project: Burbank Airport / 9836002041

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D-DU1-S-08-1	**17-03-0531-19-A**	**03/07/17 13:55**	**Solid**	**N/A**	**03/08/17**	**03/08/17 22:00**	**H0308MOIB3**

Parameter	Result	RL	DF	Qualifiers
Moisture	5.1	0.10	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D-DU1-S-10-1	**17-03-0531-26-A**	**03/07/17 14:38**	**Solid**	**N/A**	**03/08/17**	**03/08/17 22:00**	**H0308MOIB3**

Parameter	Result	RL	DF	Qualifiers
Moisture	1.9	0.10	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-05-014-6730**	**N/A**	**Solid**	**N/A**	**03/08/17**	**03/08/17 22:00**	**H0308MOIB3**

Parameter	Result	RL	DF	Qualifiers
Moisture	ND	0.10	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Andersen Environmental		Date Received:	03/07/17
5261 West Imperial Highway		Work Order:	17-03-0531
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: Burbank Airport / 9836002041			Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D-DU1-S-08-1	**17-03-0531-19-A**	**03/07/17 13:55**	**Solid**	**GC 41**	**03/09/17**	**03/13/17 13:32**	**170309L07**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.3	1.00	
Alpha-BHC	ND	11	1.00	
Beta-BHC	ND	5.3	1.00	
Chlordane	ND	53	1.00	
4,4'-DDD	ND	5.3	1.00	
4,4'-DDE	ND	5.3	1.00	
4,4'-DDT	ND	5.3	1.00	
Delta-BHC	ND	11	1.00	
Dieldrin	ND	5.3	1.00	
Endosulfan I	ND	5.3	1.00	
Endosulfan II	ND	5.3	1.00	
Endosulfan Sulfate	ND	5.3	1.00	
Endrin	ND	5.3	1.00	
Endrin Aldehyde	ND	5.3	1.00	
Endrin Ketone	ND	5.3	1.00	
Gamma-BHC	ND	5.3	1.00	
Heptachlor	ND	5.3	1.00	
Heptachlor Epoxide	ND	11	1.00	
Methoxychlor	ND	5.3	1.00	
Toxaphene	ND	110	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	89	24-168	
2,4,5,6-Tetrachloro-m-Xylene	64	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Andersen Environmental
5261 West Imperial Highway
Los Angeles, CA 90045-6231

Date Received: 03/07/17
Work Order: 17-03-0531
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: Burbank Airport / 9836002041

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
D-DU1-S-10-1	**17-03-0531-26-A**	**03/07/17 14:38**	**Solid**	**GC 41**	**03/09/17**	**03/13/17 13:47**	**170309L07**

Comment(s): - Results are reported on a dry weight basis.

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.1	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.1	1.00	
Chlordane	ND	51	1.00	
4,4'-DDD	ND	5.1	1.00	
4,4'-DDE	ND	5.1	1.00	
4,4'-DDT	6.3	5.1	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.1	1.00	
Endosulfan I	ND	5.1	1.00	
Endosulfan II	ND	5.1	1.00	
Endosulfan Sulfate	ND	5.1	1.00	
Endrin	ND	5.1	1.00	
Endrin Aldehyde	ND	5.1	1.00	
Endrin Ketone	ND	5.1	1.00	
Gamma-BHC	ND	5.1	1.00	
Heptachlor	ND	5.1	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.1	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	161	24-168	
2,4,5,6-Tetrachloro-m-Xylene	72	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Andersen Environmental
5261 West Imperial Highway
Los Angeles, CA 90045-6231

Date Received: 03/07/17
Work Order: 17-03-0531
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: Burbank Airport / 9836002041

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-2629**	**N/A**	**Solid**	**GC 41**	**03/09/17**	**03/13/17 11:01**	**170309L07**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	84	24-168	
2,4,5,6-Tetrachloro-m-Xylene	77	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

Andersen Environmental		Date Received:	03/07/17
5261 West Imperial Highway		Work Order:	17-03-0531
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Burbank Airport / 9836002041			Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
17-03-0588-1	**Sample**	**Solid**	**GC 41**	**03/09/17**	**03/13/17 12:01**	**170309S07**
17-03-0588-1	**Matrix Spike**	**Solid**	**GC 41**	**03/09/17**	**03/13/17 11:31**	**170309S07**
17-03-0588-1	**Matrix Spike Duplicate**	**Solid**	**GC 41**	**03/09/17**	**03/13/17 11:46**	**170309S07**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	18.08	72	17.33	69	50-135	4	0-25	
Alpha-BHC	ND	25.00	17.26	69	16.75	67	50-135	3	0-25	
Beta-BHC	ND	25.00	17.61	70	17.37	69	50-135	1	0-25	
4,4'-DDD	ND	25.00	19.03	76	18.39	74	50-135	3	0-25	
4,4'-DDE	13.81	25.00	34.72	84	42.76	116	50-135	21	0-25	
4,4'-DDT	ND	25.00	23.51	94	25.09	100	50-135	7	0-25	
Delta-BHC	ND	25.00	18.80	75	18.37	73	50-135	2	0-25	
Dieldrin	ND	25.00	20.22	81	19.73	79	50-135	2	0-25	
Endosulfan I	ND	25.00	20.45	82	19.69	79	50-135	4	0-25	
Endosulfan II	ND	25.00	23.57	94	22.97	92	50-135	3	0-25	
Endosulfan Sulfate	ND	25.00	18.49	74	18.25	73	50-135	1	0-25	
Endrin	ND	25.00	22.41	90	21.52	86	50-135	4	0-25	
Endrin Aldehyde	ND	25.00	16.20	65	15.35	61	50-135	5	0-25	
Gamma-BHC	ND	25.00	17.55	70	17.04	68	50-135	3	0-25	
Heptachlor	ND	25.00	17.55	70	17.30	69	50-135	1	0-25	
Heptachlor Epoxide	ND	25.00	18.91	76	18.54	74	50-135	2	0-25	
Methoxychlor	ND	25.00	18.00	72	17.72	71	50-135	2	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Sample Duplicate

Andersen Environmental		Date Received:	03/07/17
5261 West Imperial Highway		Work Order:	17-03-0531
Los Angeles, CA 90045-6231		Preparation:	N/A
		Method:	ASTM D-2216 (M)
Project: Burbank Airport / 9836002041			Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
17-03-0542-1	**Sample**	**Solid**	**N/A**	**03/08/17 00:00**	**03/08/17 22:00**	**H0308MOID3**
17-03-0542-1	**Sample Duplicate**	**Solid**	**N/A**	**03/08/17 00:00**	**03/08/17 22:00**	**H0308MOID3**

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Moisture	22.90	23.40	2	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Andersen Environmental		Date Received:	03/07/17
5261 West Imperial Highway		Work Order:	17-03-0531
Los Angeles, CA 90045-6231		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: Burbank Airport / 9836002041			Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-2629	**LCS**	**Solid**	**GC 41**	**03/09/17**	**03/13/17 11:16**	**170309L07**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	18.52	74	50-135	36-149	
Alpha-BHC	25.00	17.88	72	50-135	36-149	
Beta-BHC	25.00	17.83	71	50-135	36-149	
4,4'-DDD	25.00	19.84	79	50-135	36-149	
4,4'-DDE	25.00	19.06	76	50-135	36-149	
4,4'-DDT	25.00	19.97	80	50-135	36-149	
Delta-BHC	25.00	18.90	76	50-135	36-149	
Dieldrin	25.00	20.86	83	50-135	36-149	
Endosulfan I	25.00	21.32	85	50-135	36-149	
Endosulfan II	25.00	26.32	105	50-135	36-149	
Endosulfan Sulfate	25.00	21.17	85	50-135	36-149	
Endrin	25.00	21.35	85	50-135	36-149	
Endrin Aldehyde	25.00	17.77	71	50-135	36-149	
Gamma-BHC	25.00	17.96	72	50-135	36-149	
Heptachlor	25.00	17.84	71	50-135	36-149	
Heptachlor Epoxide	25.00	18.95	76	50-135	36-149	
Methoxychlor	25.00	19.40	78	50-135	36-149	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 17-03-0531 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
ASTM D-2216 (M)	N/A	1050	N/A	1
EPA 8081A	EPA 3545	669	GC 41	1

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Glossary of Terms and Qualifiers

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Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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EFI Global

EFI Global
5261 West Imperial Highway, Los Angeles [illegible] 90045
Tel: (310) 854-6300 Fax: (310) 854-0199 www.AndersenEnviro.com

Chain-of-Custody Record

17-03-0531

Analytical Laboratory:	Calscience	Job # 9836002041
Project Name:	Burbank Airport	NA
Project Address:	2627 N. Hollywood Way, Burbank	
Project Manager:	B. Martasin	
Sampled by:	G. Baader	
Phone/Email:	310-854-6300, brian_martasin@efiglobal.com	
Phone/Email:	Robert Cheung, 510-529-5948, RCheung@Geosyntec.com	

Number	Sample ID	Lab ID	Type: Grab	Type: Discrete	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: OCPs, EPA Method 8081A	Method: PAHs, EPA Method 8270C SIM	Method: Metals, EPA Method 6010B/7471A	Method: Lead, EPA Method 6010B	Method: Arsenic, EPA Method 6010B	Method: STLC Lead EPA Method	Method: TCLP Lead EPA Method	Method: PCBs, EPA Method 8082	Method: TPH full chain, EPA Method 8015M	Method: TPHd, TPHmo, EPA Method 8015M	Method: Composite	Method: Hold	Container: 4- or 8-ounce Glass	Container: 250-ml Poly Bottle	Container: EZ Draw (EPA 5035)	Container: Acetate Liner	Container: 1-l Amber Bottle	Turnaround Time: 24 hours	Turnaround Time: 48 hours	Turnaround Time: Normal
1	D-DU1-S-02-3	1		X		X							3/7/17	10:30		X	X				X		X		X				X					X
2	-6	2												10:32												X									
3	-15	3												10:38												X									
4	D-DU1-S-03-3	4												9:55												X									
5	-8	5												10:02												X									
6	-15	6												10:15												X									
7	D-DU1-S-04-3	7												13:05												X									
8	-8	8												13:10												X									
9	-15	9												13:15												X									
10	D-DU1-S-05-3	10												12:40												X									
11	-8	11												12:45												X									
12	-15	12												12:50												X									
13	D-DU1-S-06-3	13												9:30												X									
14	-8	14												9:32												X									
15	15	15												9:38												X									
16	D-DU1-S-07-3	16												13:33												X									
17	-8	17												13:40												X									
18	-15	18												13:45												X									
19	D-DU1-S-08-3	19												13:55	X																				X
20		20												13:55												X									

Relinquished by	Date	Time	Received by	Date	Time	Remarks
[signature]	3/7/17	1600	[signature]	3/7/17	1600	Sample condition (circle): Chilled Intact
[signature]	3/7/17	1750	[signature]	3/7/17	17:50	Hold until all D-DU1 samples received for 1st composites.

Take samples from end of liner unless otherwise indicated on liner.

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Chain-of-Custody Record

EFI Global
EFI Global
5261 West Imperial Highway, Los Angeles C. . 0045
Tel: (310) 854-6300 Fax: (310) 854-0199 www.AndersenEnviro.com

Analytical Laboratory:	Calscience	Job # 9836002041
Project Name:	Burbank Airport	NA
Project Address:	2627 N. Hollywood Way, Burbank	
Project Manager:	B. Martasin	
Sampled by:	G. Baader	
Phone/Email:	310-854-6300, brian_martasin@efiglobal.com	
Phone/Email:	Robert Cheung, 510-529-5948, RCheung@Geosyntec.com	

Number	Sample ID	Lab ID	Type: Grab	Type: Discrete	Matrix: Water	Matrix: Soil	Matrix: Vapor	Matrix: Other	Preservative: Cold (4° C)	Preservative: HNO3	Preservative: NaHSO4	Preservative: HCl	Sampling Information: Date	Sampling Information: Time	Method: OCPs, EPA Method 8081A	Method: PAHs, EPA Method 8270C SIM	Method: Metals, EPA Method 6010B/7471A	Method: Lead, EPA Method 6010B	Method: Arsenic, EPA Method 6010B	Method: STLC Lead EPA Method	Method: TCLP Lead EPA Method	Method: PCBs, EPA Method 8082	Method: TPH full chain, EPA Method 8015M	Method: TPHd, TPHmo, EPA Method 8015M	Method: Composite	Method: Hold	Container: 4- or 8-ounce Glass	Container: 250-ml Poly Bottle	Container: EZ Draw (EPA 5035)	Container: Acetate Liner	Container: 1-l Amber Bottle	Turnaround Time: 24 hours	Turnaround Time: 48 hours	Turnaround Time: Normal
21	D-DU1-S-08-8	21		X		X			X				3/7/17	14:00	X	X						X	X		X								X
22	-15	22		X		X			X				3/7/17	14:03	X	X						X	X		X								X
23	D-DU1-S-09-3	23		X		X			X					14:13											X									
24	-8	24		X		X			X					14:20											X									
25	-15	25		X		X			X					14:25											X									
26	D-DU1-S-10-3	26		X		X			X					14:38	X																			X
27	-3	27		X		X			X					14:38											X									
28	-8	28		X		X			X					14:40											X									
29	-15	29		X		X			X					14:43											X									
30	D-DU1-S-11-3	30		X		X			X					9:05											X									
31	-8	31		X		X			X					9:08											X									
32	-15	32		X		X			X					9:18											X									
33	D-DU1-S-01-3	33		X		X			X					14:50											X									
34	-8	34		X		X			X					14:55											X									
35	-15	35		X		X			X					15:05											X									
36		-																																

Relinquished by	Date	Time	Received by	Date	Time	Remarks
	3/7/17	1600		3/7/17	1600	Sample condition (circle): Chilled Intact
	3/7/17	1750		3/7/17	17:50	See page 1 for notes

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WORK ORDER NUMBER: 17-03- 0531

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: Andersen

DATE: 03 / 7 / 2017

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC3B (CF: 0.0°C); Temperature (w/o CF): 2.2 °C (w/ CF): 2.2 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☑ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 1091

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: 1891

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1110

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC NO	☑ 3/7/17	☐ 3/7/17	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☑ Sleeve (P) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1110

Reviewed by: 689

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WORK ORDER NUMBER: 17-03- 0531

SAMPLE ANOMALY REPORT

DATE: 03 / 07 / 2017

SAMPLES, CONTAINERS, AND LABELS:

Comments

- ☐ Sample(s) NOT RECEIVED but listed on COC
- ☐ Sample(s) received but NOT LISTED on COC
- ☐ Holding time expired (list client or ECI sample ID and analysis)
- ☐ Insufficient sample amount for requested analysis (list analysis)
- ☐ Improper container(s) used (list analysis)
- ☐ Improper preservative used (list analysis)
- ☐ No preservative noted on COC or label (list analysis and notify lab)
- ☐ Sample container(s) not labeled
- ☐ Client sample label(s) illegible (list container type and analysis)
- ☒ Client sample label(s) do not match COC (comment)
  - ☐ Project information
  - ☐ Client sample ID
  - ☒ Sampling date and/or time
  - ☐ Number of container(s)
  - ☐ Requested analysis
- ☐ Sample container(s) compromised (comment)
  - ☐ Broken
  - ☐ Water present in sample container
- ☐ Air sample container(s) compromised (comment)
  - ☐ Flat
  - ☐ Very low in volume
  - ☐ Leaking (not transferred; duplicate bag submitted)
  - ☐ Leaking (transferred into ECI Tedlar™ bags*)
  - ☐ Leaking (transferred into client's Tedlar™ bags*)

* Transferred at client's request.

Collection time per label
(-8) time 13:15
(-9) time 13:10

MISCELLANEOUS: (Describe)

Comments

HEADSPACE:

(Containers with bubble > 6 mm or ¼ inch for volatile organic or dissolved gas analysis)

ECI Sample ID	ECI Container ID	Total Number**	ECI Sample ID	ECI Container ID	Total Number**

(Containers with bubble for other analysis)

ECI Sample ID	ECI Container ID	Total Number**	Requested Analysis

Comments: _____

Reported by: LHO

Reviewed by: [illegible]

** Record the total number of containers (i.e., vials or bottles) for the affected sample.

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Case Narrative

Client Project Name: Burbank Airport / 9836002041
Work Order Number: 17-03-0531

CONDITION UPON RECEIPT:

Eurofins Calscience, Inc. received (35) solid samples on March 7th, 2017. A total of (35) containers were received in good condition and at a temperature of 2.2°C , which was within the recommended temperature of 0°C – 6°C.

Client Sample ID	Lab Sample ID	Date & Time Sampled	Date & Time Received
D-DU1-S-02-3	17-03-0531-1	03/07/17 10:30	03/07/17 17:50
D-DU1-S-02-8	17-03-0531-2	03/07/17 10:32	03/07/17 17:50
D-DU1-S-02-15	17-03-0531-3	03/07/17 10:38	03/07/17 17:50
D-DU1-S-03-3	17-03-0531-4	03/07/17 09:55	03/07/17 17:50
D-DU1-S-03-8	17-03-0531-5	03/07/17 10:02	03/07/17 17:50
D-DU1-S-03-15	17-03-0531-6	03/07/17 10:15	03/07/17 17:50
D-DU1-S-04-3	17-03-0531-7	03/07/17 13:05	03/07/17 17:50
D-DU1-S-04-8	17-03-0531-8	03/07/17 13:10	03/07/17 17:50
D-DU1-S-04-15	17-03-0531-9	03/07/17 13:15	03/07/17 17:50
D-DU1-S-05-3	17-03-0531-10	03/07/17 12:40	03/07/17 17:50
D-DU1-S-05-8	17-03-0531-11	03/07/17 12:45	03/07/17 17:50
D-DU1-S-05-15	17-03-0531-12	03/07/17 12:50	03/07/17 17:50
D-DU1-S-06-3	17-03-0531-13	03/07/17 09:30	03/07/17 17:50
D-DU1-S-06-8	17-03-0531-14	03/07/17 09:32	03/07/17 17:50
D-DU1-S-06-15	17-03-0531-15	03/07/17 09:38	03/07/17 17:50
D-DU1-S-07-3	17-03-0531-16	03/07/17 13:33	03/07/17 17:50
D-DU1-S-07-8	17-03-0531-17	03/07/17 13:40	03/07/17 17:50
D-DU1-S-07-15	17-03-0531-18	03/07/17 13:45	03/07/17 17:50
D-DU1-S-08-1	17-03-0531-19	03/07/17 13:55	03/07/17 17:50
D-DU1-S-08-3	17-03-0531-20	03/07/17 13:55	03/07/17 17:50
D-DU1-S-08-8	17-03-0531-21	03/07/17 14:00	03/07/17 17:50
D-DU1-S-08-15	17-03-0531-22	03/07/17 14:03	03/07/17 17:50
D-DU1-S-09-3	17-03-0531-23	03/07/17 14:13	03/07/17 17:50
D-DU1-S-09-8	17-03-0531-24	03/07/17 14:20	03/07/17 17:50
D-DU1-S-09-15	17-03-0531-25	03/07/17 14:25	03/07/17 17:50
D-DU1-S-10-1	17-03-0531-26	03/07/17 14:38	03/07/17 17:50
D-DU1-S-10-3	17-03-0531-27	03/07/17 14:38	03/07/17 17:50
D-DU1-S-10-8	17-03-0531-28	03/07/17 14:40	03/07/17 17:50
D-DU1-S-10-15	17-03-0531-29	03/07/17 14:43	03/07/17 17:50
D-DU1-S-11-3	17-03-0531-30	03/07/17 09:05	03/07/17 17:50
D-DU1-S-11-8	17-03-0531-31	03/07/17 09:08	03/07/17 17:50
D-DU1-S-11-15	17-03-0531-32	03/07/17 09:18	03/07/17 17:50

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Case Narrative

Client Project Name: Burbank Airport / 9836002041
Work Order Number: 17-03-0531

Client Sample ID	Lab Sample ID	Date & Time Sampled	Date & Time Received
D-DU1-S-01-3	17-03-0531-33	03/07/17 14:50	03/07/17 17:50
D-DU1-S-01-8	17-03-0531-34	03/07/17 14:55	03/07/17 17:50
D-DU1-S-01-15	17-03-0531-35	03/07/17 15:05	03/07/17 17:50

DATA SUMMARY:

As per the chain of custody (COC), the sample were analyzed using one or more of the following methodologies:

- ASTM D-2216 (M) Moisture Content (Solid)
- EPA 8081A Organochlorine Pesticides (Solid)

The samples were analyzed within the suggested EPA holding time for the requested methods unless otherwise noted.

Sample results were reported in the RL format.

The sample data is reported in dry weight. The instrument printouts do not reflect the correction for dry weight.

Any dilutions made to the sample(s) and/or QC will be noted in the following narrative. Reporting limits have been adjusted accordingly.

Manual integrations made to the data will be noted in the following narrative. The before and amended chromatograms have been included in the data package.

All sample and analytical QC are within acceptance criteria unless otherwise noted.

ASTM D-2216 (M) Moisture Content (Solid):

Samples -19 and -26 were analyzed for % Moisture by ASTM D-2216 (M). The samples were prepared and analyzed on 03/08/17 in batch #s H0308MOIB3 / H0308MOID3.

Balance Calibration/Verification:

All values were within acceptance criteria.

Sample and QC:

The method blank was non-detect. A non-client sample was used as the sample duplicate for quality control; refer to the sample duplicate summary form for the further information.

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Case Narrative

Client Project Name: Burbank Airport / 9836002041
Work Order Number: 17-03-0531

EPA 8081A Organochlorine Pesticides (Solid):

Samples -19 and -26 were analyzed for Organochlorine Pesticides by EPA 8081A. The samples were prepared on 03/09/17 and analyzed on 03/13/17 in batch #s 170309L07 / 170309S07 on GC 41.

Initial Calibration and Initial Calibration Verification:

- *Pesticides ICAL on 02/02/17 on GC 41*: The ICAL was within the 20% RSD acceptance criteria and the ICV was within the 15% D acceptance criteria for Pesticides on both columns.
- *Chlordane ICAL on 02/02/17 on GC 41*: The ICAL was within the 20% RSD acceptance criteria and the ICV was within the 15% D acceptance criteria for Chlordane on primary column.
- *Toxaphene ICAL on 02/02/17 on GC 41*: The ICAL was within the 20% RSD acceptance criteria and the ICV was within the 15% D acceptance criteria for Toxaphene on primary column.

Breakdown Standards:

DDT and Endrin were within the 15% breakdown criteria in the associated degradation standards.

Continuing Calibration Verification:

All values were within the 15% D acceptance criteria.

Sample and QC:

The method blank was non-detect; the LCS and all surrogate recoveries were within acceptance criteria.

A non-client sample was used for the MS/MSD; refer to the MS/MSD summary form for further information.

Manual integration was performed on one or more of the samples to correct the peak and/or baseline integration.

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ASTM D-2216 (M)

Moisture Content

(Solid)

RAW DATA

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RAW DATA SHEET
FOR METHOD: ASTM D-2216 (M)

WORK ORDER:	**17-03-0531**	ANALYZED BY:	1,050
INSTRUMENT:	N/A	D/T ANALYZED:	2017-03-08 22:00
EXTRACTION :	N/A	REVIEWED BY:	1,050
D/T EXTRACTED:	2017-03-08 00:00	D/T REVIEWED:	2017-03-10 10:28

DATA FILE: NONE

 # 19 **CLIENT SAMPLE NUMBER: D-DU1-S-08-1**

LCS/MB BATCH:	H0308MOIB3	SAMPLE VOLUME / WEIGHT:	DEFAULT: 1.00 g
MS/MSD BATCH:	H0308MOID3	FINAL VOLUME / WEIGHT:	DEFAULT: 1.00 ml
UNITS:	%	ADJUSTMENT RATIO TO PF:	1.00

COMMENT:

COMPOUND	ON COL CONC	DF	CONC	RL	QUAL
Moisture	5.10	1.00	5.10	0.10	

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RAW DATA SHEET
FOR METHOD: ASTM D-2216 (M)

WORK ORDER: **17-03-0531**
INSTRUMENT: N/A
EXTRACTION : N/A
D/T EXTRACTED: 2017-03-08 00:00

ANALYZED BY: 1,050
D/T ANALYZED: 2017-03-08 22:00
REVIEWED BY: 1,050
D/T REVIEWED: 2017-03-10 10:28

DATA FILE: NONE

 # 26 **CLIENT SAMPLE NUMBER: D-DU1-S-10-1**

LCS/MB BATCH: H0308MOIB3
MS/MSD BATCH: H0308MOID3
UNITS: %

SAMPLE VOLUME / WEIGHT: DEFAULT: 1.00 g
FINAL VOLUME / WEIGHT: DEFAULT: 1.00 ml
ADJUSTMENT RATIO TO PF: 1.00

COMMENT:

COMPOUND	ON COL CONC	DF	CONC	RL	QUAL
Moisture	1.90	1.00	1.90	0.10	

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METHOD BLANK ASSOCIATION SUMMARY
FOR METHOD: ASTM D-2216 (M)

MB SAMPLE ID: **099-05-014-6730**
MB BATCH ID: H0308MOIB3
INSTRUMENT: N/A
EXTRACTION: N/A
D/T EXTRACTED: 2017-03-08 00:00

ANALYZED BY: 1,050
D/T ANALYZED: 2017-03-08 22:00
REVIEWED BY: 1,050
D/T REVIEWED: 2017-03-10 10:28
MATRIX: Soil

DATA FILE: NONE

CLIENT WORK ORDER: **17-03-0531**

S#	RUN TYPE	CLIENT SAMPLE ID	D/T ANALYZED	DATA FILE
19		D-DU1-S-08-1	2017-03-08 22:00	NONE
26		D-DU1-S-10-1	2017-03-08 22:00	NONE

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RAW DATA SHEET
FOR METHOD: ASTM D-2216 (M)

WORK ORDER:	**099-05-014**	ANALYZED BY:	1,050
INSTRUMENT:	N/A	D/T ANALYZED:	2017-03-08 22:00
EXTRACTION :	N/A	REVIEWED BY:	1,050
D/T EXTRACTED:	2017-03-08 00:00	D/T REVIEWED:	2017-03-10 10:28
DATA FILE:	NONE		

 # MB **CLIENT SAMPLE NUMBER: Method Blank**

LCS/MB BATCH:	H0308MOIB3	SAMPLE VOLUME / WEIGHT:	DEFAULT: 1.00 g
MS/MSD BATCH:		FINAL VOLUME / WEIGHT:	DEFAULT: 1.00 ml
UNITS:	%	ADJUSTMENT RATIO TO PF:	1.00

COMMENT:

COMPOUND	ON COL CONC	DF	CONC	RL	QUAL
Moisture	0.000	1.00	ND	0.10	

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DUPLICATE REPORT
FOR METHOD: ASTM D-2216 (M)

DUP SAMPLE ID: 17-03-0542-1
DUP BATCH : H0308MOID3
INSTRUMENTS:
SAMPLE: N/A
DUP SAMPLE: N/A

EXTRACTION : N/A
D/T EXTRACTED :
SAMPLE: 2017-03-08 00:00
DUP SAMPLE: 2017-03-08 00:00

ANALYZED BY: 1,050
D/T ANALYZED
SAMPLE: 2017-03-08 22:00
DUP SAMPLE: 2017-03-08 22:00
REVIEWED BY: 1,050
D/T REVIEWED 2017-03-10 10:28

COMPOUND	SAMPLE CONC	DUP CONC	% RPD	CONTROL LIMIT	STATUS	QUALIFIERS
Moisture	22.90	23.40	2	0-10	PASS	

Data Files:

TYPE	DATA FILE	DATA FILE PATH
SDP	NONE	

Moisture Content Raw Data Logbook

METHOD	MATRIX	DATE	ANALYST(S)	BATCH NUMBER
ASTM D2216(M)	☑ Solid ☐ Sediment ☐ Other_____	Preparation: 3/8/17	1050	MB: H0308MOIB3
		Analysis: ↓	↓	Sample Duplicate: ↓ A3

CEL ID #	MASS (g) DISH	DRY DISH	MOISTURE	% MOISTURE	RL (%)	COMMENTS	ALUMINUM DISH SUPPLY ID
MB	1.86	1.86	0.00	0.00	0.10		G007066-15

CEL ID #	% MOISTURE	RPD	CONTROL LIMIT	OVEN ID	THERMOMETER ID / CF (°C)	OVEN TEMP (°C)	BATCH PREP TIME (hh:mm)
Sample 17-03-0542-1AA	22.9	2	0 – 10	☑ IO 07	☑ TSS IO7A CF: -3	Start: 103	Start: 1400
Duplicate ↓ -1AA	23.4			☐ IO 08	☐ TSS IO8A CF:_____	End: 103	End: 2200
Instructions: CEL ID consists of Work Order Number and Container ID				☐ _____	☐ _____ CF:_____		

CEL ID #	MASS (g) DISH	DISH + SAMPLE (as-received)	SAMPLE (as-received)	DISH + SAMPLE (oven-dried)	MOISTURE	% MOISTURE WET-BASED	% MOISTURE DRY-BASED	BALANCE ID #	RL (%)	QUAL	COMMENTS
Duplicate 17-03-0542-1AA	1.89	12.46	10.57	9.99	2.47	23.4		63	0.10		
17-03-0542-1AA	1.86	12.43	10.57	10.01	2.42	22.9		↓	↓		
-2AA	1.86	12.10	10.24	10.45	1.65	16.1					
-3AA	1.90	12.43	10.53	10.97	1.46	13.9					
-4AA	1.90	12.82	10.92	10.75	2.07	19.0					
17-03-0531-19A	1.89	12.10	10.21	11.58	0.52	5.1					
-26A	1.85	12.22	10.37	12.02	0.20	1.9					
17-03-0464-2A	1.84	12.81	10.97	5.39	7.42	67.6					
17-03-0346-1A	1.90	12.49	10.59	9.71	2.78	26.3		↓	↓		

BATCH TIME
Time (24 Hr): 2200
Initials: 1050

Drying / Weighing Cycle Raw Data Logbook

Analyte: ☑ Moisture Content, ☐ Solids Content, ☐ Total Dissolved Solids (TDS), ☐ Total Suspended Solids (TSS), ☐ Volatile Solids (VS), ☐ Volatile Suspended Solids (VSS), ☐ Lipid Content, ☐ Mobility Extraction (TCLP/SPLP/STLC), ☐ Other (Specified) _____

METHOD				MASS CHANGE CONTROL LIMIT	COMMENTS
☑ ASTM D2216(M)	☐ EPA 160.4	☐ SM 2540 C	☐ WET (STLC)	Moisture/Solids Content: < 0.1% of previous mass	BATCH TIME Time (24 hr): 2200 Initials: 1050
☐ EPA 160.1	☐ EPA 1311	☐ SM 2540 D	☐ Other	TDS/TSS/VS/VSS: < 4% of previous mass or 0.5 mg, whichever is less	
☐ EPA 160.2	☐ EPA 1312	☐ SM 2540 E		TCLP/SPLP/STLC: within ± 1% of previous mass	
☐ EPA 160.3	☐ SM 2540 B	☐ SOP-M489			

MATRIX	DATE	ANALYST(S)	BATCH NUMBER		COMMENTS
Solid	Preparation: 3/8/17	1050	MB: H0308MOIB3	LCS/LCSD: NA	
	Analysis: ↓	↓	Sample Duplicate: ↓ D3	Sample Duplicate or MS/MSD: NA	

ECI ID #	OVEN ID #	CONTAINER + RESIDUE (OVEN-DRIED) CYCLE 1 MASS (g)	CYCLE 1 TIME IN	CYCLE 1 TIME OUT	CYCLE 2 MASS (g)	CYCLE 2 TIME IN	CYCLE 2 TIME OUT	CYCLE 3 MASS (g)	CYCLE 3 TIME IN	CYCLE 3 TIME OUT	FINAL MASS CHANGE WITHIN LIMITS	BALANCE ID #	COMMENTS
MB	10-07	1.86	1500	1900	1.86	2000	2100				(Y) N	63	
LCS											Y N		
LCSD											Y N		
MS											Y N		
MSD/Duplicate											Y N		
Duplicate 17-03-0542-1AA	10-07	9.99	1500	1900	9.99	2000	2100				(Y) N	63	
17-03-0542-1AA	↓	10.01	↓	↓	10.01	↓	↓				(Y) N	↓	
-2AA		10.45			10.45						(Y) N		
-3AA		10.97			10.97						(Y) N		
-4AA		10.75			10.75						(Y) N		
17-03-0531-19A		11.58			11.58						(Y) N		
-26A		12.02			12.02						(Y) N		
17-03-0464-2A		5.39			5.39						(Y) N		
17-03-0346-1A	↓	9.71	↓	↓	9.71	↓	↓				(Y) N	↓	
											(Y) N		
											(Y) N		
											Y N		
											Y N		
											Y N		
											Y N		
											Y N		
											Y N		
											Y N		
											Y N		
											Y N		
											Y N		

BALANCE CALIBRATION CHECK LOG

Eurofins Calscience

Date performed: 3/8/17 Initials: III

ID	Class 2 Weight (g)	Reading (g)	Acceptance Range	Pass? (circle one)	Comment (If not passed, note removal or corrective action)
25	1	1.00	0.98 - 1.02	(Y) N	IO Lab
	100	100.00	98.00 - 102.00	(Y) N	
	500	500.03	498.00 - 502.00	(Y) N	
62	0.002	.0019	0.00180 - 0.00220	(Y) N	IO Lab
	1	.9997	0.99900 - 1.00100	(Y) N	
	100	99.9962	99.90000 - 100.10000	(Y) N	
26	1	1.01	0.98 - 1.02	(Y) N	IO Lab
	100	99.98	98.00 - 102.00	(Y) N	
55	1	1.00	0.98 - 1.02	(Y) N	IO Lab
	100	99.96	98.00 - 102.00	(Y) N	
	500	499.85	498.00 - 502.00	(Y) N	
11	1	1.00	0.98 - 1.02	(Y) N	IO Lab
	100	100.00	98.00 - 102.00	(Y) N	
66	0.002	.0022	0.00180 - 0.00220	(Y) N	Metals
	1	1.0000	0.99900 - 1.00100	(Y) N	
	100	100.0005	99.90000 - 100.10000	Y N	
53	0.1	.10	0.09 - 0.11	(Y) N	Extractions
	1	1.00	0.98 - 1.02	(Y) N	
	100	99.99	98.00 - 102.00	(Y) N	
	500	499.94	498 - 502	(Y) N	
2970	1	.99	0.98 - 1.02	(Y) N	Extractions
	100	99.83	98.00 - 102.00	(Y) N	
	500	499.17	498.00 - 502.00	(Y) N	
57	100	100.00	98.0-102.0	(Y) N	Extractions
	1000	1000.0	998.0-1002.0	(Y) N	
	2000	1999.9	1998.0-2002.0	(Y) N	
52	0.002	.0021	0.0018 - 0.0022	(Y) N	Extractions
	1	.9996	0.9990 - 1.0010	(Y) N	
	100	99.9965	99.9000 - 100.1000	(Y) N	
71	0.002	.0019	0.0018 - 0.0022	(Y) N	BOD Room
	1	.9993	0.9990 - 1.0010	(Y) N	
	100	99.9967	99.9000 - 100.1000	(Y) N	
63	0.1	.10	0.09 - 0.11	(Y) N	BOD Room
	100	99.99	98.00 - 102.00	(Y) N	
64	1	1.00	0.98 - 1.02	(Y) N	Metals Clean Room
	10	9.99	9.8 - 10.2	(Y) N	
	100	100.00	98.00 - 102.00	(Y) N	
72	0.002	.0020	0.0018 - 0.0022	(Y) N	Oil & Grease Room
	1	.9997	0.9990 - 1.0010	(Y) N	
	100	100.0012	99.9000 - 100.1000	(Y) N	
30	1	1.00	0.98 - 1.02	(Y) N	Oil & Grease Room
	100	99.94	98.00 - 102.00	(Y) N	

EPA METHOD 8081A
Organochlorine Pesticides

RAW DATA

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EPA METHOD 8081A
Organochlorine Pesticides

Initial Calibration

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INITIAL CALIBRATION QUALITY CONTROL SUMMARY
FOR METHOD: EPA 8081A

ICAL WORK ORDER: 099-12-528-6469-5152
ICAL BATCH ID: 170202I005
INSTRUMENT: GC 41

ANALYZED BY: 944
ICAL D/T ANALYZED: 2017-02-02 15:04
REVIEWED BY: 27
D/T REVIEWED: 2017-02-03 16:49

COMPOUND	COMP. TYPE	CALIB. MODEL	1	2	3	4	5	6	7	8	9	Avg. RF	Min. RF	%RSD	%RSD CL	R or R^2	R or R^2 CL	STATUS
Alpha-BHC	C	Avg RF	165,036,333	167,573,114	180,150,279	187,889,029	186,483,286					177,426,408	0.00	6	0-20			PASS
Gamma-BHC	C	Avg RF	150,365,010	151,028,291	161,797,091	169,053,210	167,245,235					159,897,767	0.00	6	0-20			PASS
Beta-BHC	C	Avg RF	62,814,105	60,977,966	63,797,163	65,871,627	64,788,645					63,649,901	0.00	3	0-20			PASS
Heptachlor	C	Avg RF	153,631,570	151,923,009	161,681,737	167,903,413	164,562,535					159,940,453	0.00	4	0-20			PASS
Delta-BHC	C	Avg RF	143,654,578	144,649,316	156,245,809	164,144,194	161,643,956					154,067,570	0.00	6	0-20			PASS
Aldrin	C	Avg RF	135,145,420	134,273,406	144,840,682	151,080,834	148,705,092					142,809,087	0.00	5	0-20			PASS
Heptachlor Epoxide	C	Avg RF	120,650,295	118,260,066	126,307,485	132,123,956	129,552,039					125,378,768	0.00	5	0-20			PASS
Endosulfan I	C	Avg RF	107,473,299	104,234,760	109,726,918	114,988,913	112,240,461					109,732,870	0.00	4	0-20			PASS
Dieldrin	C	Avg RF	115,466,310	114,003,285	124,144,217	131,940,461	128,765,142					122,863,883	0.00	6	0-20			PASS
4,4'-DDE	C	Avg RF	117,419,025	115,301,066	125,316,219	132,529,690	129,558,043					124,024,808	0.00	6	0-20			PASS
Endrin	C	Avg RF	100,098,697	97,483,122	103,645,949	110,286,577	105,511,873					103,405,244	0.00	5	0-20			PASS
Endrin Aldehyde	C	Avg RF	90,227,193	86,148,080	93,249,025	100,246,764	96,603,058					93,294,824	0.00	6	0-20			PASS
4,4'-DDD	C	Avg RF	96,910,319	95,212,957	104,114,143	111,252,229	107,839,024					103,065,735	0.00	7	0-20			PASS

LR - E: Linear Regression (Equal Weight)
LR - IC: Linear Regression (Inverse Concentration Weight)
LR - ISC: Linear Regression (Inverse Square Concentration Weight)
Avg RF: Average Response Factor
QR - E: Quadratic Regression (Equal Weight)

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INITIAL CALIBRATION QUALITY CONTROL SUMMARY
FOR METHOD: EPA 8081A

ICAL WORK ORDER: 099-12-528-6469-5152
ICAL BATCH ID: 170202I005
INSTRUMENT: GC 41

ANALYZED BY: 944
ICAL D/T ANALYZED: 2017-02-02 15:04
REVIEWED BY: 27
D/T REVIEWED: 2017-02-03 16:49

COMPOUND	COMP. TYPE	CALIB. MODEL	1	2	3	4	5	6	7	8	9	Avg. RF	Min. RF	%RSD	%RSD CL	R or R^2	R or R^2 CL	STATUS
Endosulfan II	C	Avg RF	87,331,583	84,620,802	86,922,196	91,997,484	88,491,958					87,872,805	0.00	3	0-20			PASS
4,4'-DDT	C	Avg RF	101,642,347	98,597,126	107,054,459	114,346,481	110,432,873					106,414,657	0.00	6	0-20			PASS
Endosulfan Sulfate	C	Avg RF	99,399,035	92,968,650	99,578,370	106,773,659	102,041,640					100,152,271	0.00	5	0-20			PASS
Methoxychlor	C	Avg RF	59,713,507	52,834,411	55,299,867	59,373,529	55,718,153					56,587,894	0.00	5	0-20			PASS
Chlordane	C	Avg RF	56,918,876	56,116,978	69,650,947	60,932,369	65,787,549					61,881,344	0.00	9	0-20			PASS
Toxaphene	C	Avg RF	21,730,953	23,412,112	25,948,599	22,073,335	23,468,162					23,326,632	0.00	7	0-20			PASS
Endrin Ketone	C	Avg RF	118,206,905	111,549,698	121,144,462	131,083,648	126,147,039					121,626,350	0.00	6	0-20			PASS

Data Files:

Level #	D/T Analyzed	Data File
1	2017-02-02 15:04	/chem1/SVOA/GC_41/170202/a1702022017020220
2	2017-02-02 15:19	/chem1/SVOA/GC_41/170202/a1702022117020221
3	2017-02-02 15:34	/chem1/SVOA/GC_41/170202/a1702022217020222
4	2017-02-02 15:49	/chem1/SVOA/GC_41/170202/a1702022317020223
5	2017-02-02 16:04	/chem1/SVOA/GC_41/170202/a1702022417020224

LR - E: Linear Regression (Equal Weight)
Avg RF: Average Response Factor
LR - IC: Linear Regression (Inverse Concentration Weight)
QR - E: Quadratic Regression (Equal Weight)
LR - ISC: Linear Regression (Inverse Square Concentration Weight)

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INITIAL CALIBRATION VERIFICATION QUALITY CONTROL SHEET
FOR METHOD: EPA 8081A

ICV WORK ORDER: **099-12-528-6469-5152**
INITIAL BATCH: 170202I005
INSTRUMENT: GC 41

DATA FILE: /chem1/SVOA/GC_41/170202/a1702022517020225

ANALYZED BY: 944
D/T ANALYZED:
INITIAL: 2017-02-02 15:04
ICV: 2017-02-02 16:19
REVIEWED BY: 27
D/T REVIEWED: 2017-02-03 16:49

COMPOUND NAME	COMP TYPE	CALIB MODEL	MIN RF	AVG RF	ICV RF	AMOUNT	ICV CONC	ICV %D	ICV %D CL	STATUS
Alpha-BHC	C	Avg Resp	0.00	177426408.136	174448948.875			2	0-15	PASS
Gamma-BHC	C	Avg Resp	0.00	159897767.428	151362738.800			5	0-15	PASS
Beta-BHC	C	Avg Resp	0.00	63649901.246	62474501.350			2	0-15	PASS
Heptachlor	C	Avg Resp	0.00	159940452.667	153216814.625			4	0-15	PASS
Delta-BHC	C	Avg Resp	0.00	154067570.449	155305901.575			-1	0-15	PASS
Aldrin	C	Avg Resp	0.00	142809086.859	149246274.675			-5	0-15	PASS
Heptachlor Epoxide	C	Avg Resp	0.00	125378768.220	132839842.500			-6	0-15	PASS
Endosulfan I	C	Avg Resp	0.00	109732870.303	115965555.875			-6	0-15	PASS
Dieldrin	C	Avg Resp	0.00	122863882.989	132007116.500			-7	0-15	PASS
4,4'-DDE	C	Avg Resp	0.00	124024808.220	125357992.900			-1	0-15	PASS
Endrin	C	Avg Resp	0.00	103405243.534	99723706.600			4	0-15	PASS
Endrin Aldehyde	C	Avg Resp	0.00	93294824.011	90842029.175			3	0-15	PASS
4,4'-DDD	C	Avg Resp	0.00	103065734.528	104196838.450			-1	0-15	PASS
Endosulfan II	C	Avg Resp	0.00	87872804.593	99025963.975			-13	0-15	PASS
4,4'-DDT	C	Avg Resp	0.00	106414657.377	109606413.100			-3	0-15	PASS
Endosulfan Sulfate	C	Avg Resp	0.00	100152270.931	101907104.050			-2	0-15	PASS
Methoxychlor	C	Avg Resp	0.00	56587893.544	54482732.525			4	0-15	PASS
Chlordane	C	Avg Resp	0.00	61881343.746	69929430.820			-13	0-15	PASS
Toxaphene	C	Avg Resp	0.00	23326632.087	23114421.585			1	0-15	PASS
Endrin Ketone	C	Avg Resp	0.00	121626350.390	128297506.475			-5	0-15	PASS

MIN RF: Method Specified Minimum Response Factor

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Report Date : 03-Feb-2017 09:58 Page 1

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INITIAL CALIBRATION DATA

Start Cal Date : 03-AUG-2016 11:20
End Cal Date : 02-FEB-2017 16:04
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem1/SVOA/GC_41.i/170202.b/a8081d.m
Cal Date : 03-Feb-2017 09:40 uj3k
Curve Type : Average

Calibration File Names:
Level 1: /chem1/SVOA/GC_41.i/170202.b/a17020220.d
Level 2: /chem1/SVOA/GC_41.i/170202.b/a17020221.d
Level 3: /chem1/SVOA/GC_41.i/170202.b/a17020222.d
Level 4: /chem1/SVOA/GC_41.i/170202.b/a17020223.d
Level 5: /chem1/SVOA/GC_41.i/170202.b/a17020224.d

	10.000	20.000	40.000	60.000	80.000	___	
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	% RSD
2 Hexachlorobenzene	143433676	138939421	144368481	148479043	145746449	144193414	2
3 Alpha-BHC	165036333	167573114	180150279	187889029	186483286	177426408	6
4 Gamma-BHC	150365010	151028291	161797091	169053210	167245235	159897767	6
5 Beta-BHC	62814105	60977966	63797163	65871627	64788645	63649901	3
6 Delta-BHC	143654578	144649316	156245809	164144194	161643956	154067570	6
7 Heptachlor	153631569	151923009	161681737	167903413	164562535	159940453	4
8 Aldrin	135145420	134273406	144840682	151080834	148705092	142809087	5
9 4,4'-Dichlorobenzophenone	32859972	32194656	32109782	31921844	32768446	32370940	1
10 Oxychlordane	111469755	112665531	112226428	111976037	115463183	112760187	1
11 2,4'-DDE	78725925	79223200	79367935	79273359	80610023	79440089	1
12 Heptachlor Epoxide	120650295	118260066	126307485	132123956	129552039	125378768	5
13 Gamma Chlordane	124561321	122887995	132604217	139362515	136945933	131272396	6
14 Trans-Nonachlor	123598828	125618450	125884468	126752286	129098282	126190463	2
15 Alpha Chlordane	122026945	118108152	125943630	132066891	129219236	125472971	4
16 4,4'-DDE	117419025	115301066	125316219	132529690	129558043	124024808	6
17 Endosulfan I	107473299	104234760	109726918	114988913	112240461	109732870	4
18 2,4'-DDD	69176061	69195975	69846235	69295956	70663545	69635554	1
19 Dieldrin	115466309	114003285	124144217	131940461	128765142	122863883	6
20 2,4'-DDT	79313445	80148768	80952322	81271117	82921013	80921333	2
21 Endrin	100098697	97483122	103645949	110286577	105511873	103405244	5
22 Cis-Nonachlor	129614839	130889623	134014662	132911752	136189858	132724147	2
23 4,4'-DDD	96910319	95212957	104114143	111252229	107839024	103065735	7

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Eurofins Calscience

INITIAL CALIBRATION DATA

Start Cal Date : 03-AUG-2016 11:20
End Cal Date : 02-FEB-2017 16:04
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem1/SVOA/GC_41.i/170202.b/a8081d.m
Cal Date : 03-Feb-2017 09:40 uj3k
Curve Type : Average

		10.000	20.000	40.000	60.000	80.000		
	Compound	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	% RSD
	24 Endosulfan II	87331583	84620802	86922196	91997484	88491958	87872805	3
	25 4,4'-DDT	101642347	98597126	107054459	114346481	110432873	106414657	6
	26 Endrin Aldehyde	90227193	86148080	93249025	100246764	96603058	93294824	6
	27 Methoxychlor	59713507	52834411	55299867	59373529	55718153	56587894	5
	28 Mirex	86289009	82064318	79951495	77780351	79918071	81200649	4
	29 Endosulfan Sulfate	99399035	92968650	99578370	106773659	102041640	100152271	5
	30 Endrin Ketone	118206905	111549698	121144462	131083648	126147039	121626350	6
M	32 Chlordane	56918876	56116978	69650947	60932369	65787549	61881344	9
	33 CHLD (1)	4941840	4933524	6315415	5426206	5668356	5457068	11
	34 CHLD (2)	6280689	5217125	6068216	5184943	5294548	5609104	9
	35 CHLD (3)	3350579	2978729	3545482	3114670	3310462	3259984	7
	36 CHLD (4)	16683663	17176069	21260663	18834846	20448702	18880789	11
	37 CHLD (5)	25662105	25811532	32461171	28371704	31065480	28674399	11
M	38 Toxaphene	21730953	23412112	25948599	22073335	23468162	23326632	7
	39 TOXAPHENE (1)	3726946	4067116	4456327	3844822	4006575	4020357	7
	40 TOXAPHENE (2)	6599766	7078239	7809991	6676676	7056348	7044204	7
	41 TOXAPHENE (3)	3472024	3745670	4159308	3448972	3800097	3725214	8
	42 TOXAPHENE (4)	3649803	3966929	4412329	3804025	4029062	3972429	7
	43 TOXAPHENE (5)	4282414	4554158	5110645	4298841	4576080	4564428	7
T	1 2,4,5,6-Tetrachloro-m-Xylene	105712526	102780530	106444345	108999205	108092507	106405823	2
T	31 Decachlorobiphenyl	99894422	90117072	96055999	104769372	99247084	98016790	6

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Data File: /chem1/SVOA/GC_41.i/170202.b/a17020207.d
Report Date: 02/03/2017 09:40

Eurofins CalScience
Calibration Verification Report

Instrument ID: GC_41.i
Sample Name: P-ICV P091716L 40PPB
Sublist used: PEST.sub
Method used: /chem1/SVOA/GC_41.i/170202.b/a8081d.m

Injection Date and Time: 02-FEB-2017 11:48
Initial Calibration Date(s): 03-AUG-2016 02-FEB-2017
Initial Calibration Time(s): 11:20 16:04

Target Compounds	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D /Drift	Curve Type
Hexachlorobenzene	144193414.101	139609295.071	0.00	3	15	Averaged
Alpha-BHC	177426408.133	174448948.876	0.00	2	15	Averaged
Gamma-BHC	159897767.428	151362738.790	0.00	5	15	Averaged
Beta-BHC	63649901.244	62474501.339	0.00	2	15	Averaged
Delta-BHC	154067570.451	155305901.571	0.00	-1	15	Averaged
Heptachlor	159940452.668	153216814.621	0.00	4	15	Averaged
Aldrin	142809086.857	149246274.680	0.00	-5	15	Averaged
Heptachlor Epoxide	125378768.217	132839842.499	0.00	-6	15	Averaged
Gamma Chlordane	131272395.996	134913618.909	0.00	-3	15	Averaged
Alpha Chlordane	125472971.042	126746572.875	0.00	-1	15	Averaged
4,4'-DDE	124024808.220	125357992.888	0.00	-1	15	Averaged
Endosulfan I	109732870.309	115965555.886	0.00	-6	15	Averaged
Dieldrin	122863882.984	132007116.501	0.00	-7	15	Averaged
Endrin	103405243.534	99723706.607	0.00	4	15	Averaged
4,4'-DDD	103065734.526	104196838.453	0.00	-1	15	Averaged
Endosulfan II	87872804.592	99025963.974	0.00	-13	15	Averaged
4,4'-DDT	106414657.376	109606413.099	0.00	-3	15	Averaged
Endrin Aldehyde	93294824.010	90842029.170	0.00	3	15	Averaged
Methoxychlor	56587893.544	54482732.525	0.00	4	15	Averaged
Endosulfan Sulfate	100152270.929	101907104.054	0.00	-2	15	Averaged
Endrin Ketone	121626350.395	128297506.471	0.00	-5	15	Averaged

Surrogate Standards	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D /Drift	Curve Type
2,4,5,6-Tetrachloro-m-Xylene	106405822.634	107273545.093	0.00	-1	15	Averaged
Decachlorobiphenyl	98016789.749	96733609.772	0.00	1	15	Averaged

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Data File: /chem1/SVOA/GC_41.i/170202.b/a17020213.d
Report Date: 02/03/2017 09:40

Eurofins CalScience
Calibration Verification Report

Instrument ID: GC_41.i
Sample Name: CH-ICVP091716V 500PPB
Sublist used: chlordane.sub
Method used: /chem1/SVOA/GC_41.i/170202.b/a8081d.m

Injection Date and Time: 02-FEB-2017 13:18
Initial Calibration Date(s): 03-AUG-2016 02-FEB-2017
Initial Calibration Time(s): 11:20 16:04

Target Compounds	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D /Drift	Curve Type
Chlordane	61881343.745	69929430.821	0.00	-13	15	Averaged
CHLD (1)	5457068.252	6193780.969	0.00	-14	15	Averaged
CHLD (2)	5609104.009	6010056.736	0.00	-7	15	Averaged
CHLD (3)	3259984.171	3575658.860	0.00	-10	15	Averaged
CHLD (4)	18880788.779	21528098.312	0.00	-14	15	Averaged
CHLD (5)	28674398.535	32621835.944	0.00	-14	15	Averaged

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Data File: /chem1/SVOA/GC_41.i/170202.b/a17020219.d
Report Date: 02/03/2017 09:40

Eurofins CalScience
Calibration Verification Report

Instrument ID: GC_41.i
Sample Name: TOX-ICV P091716DD 1000PPB
Sublist used: toxaphene.sub
Method used: /chem1/SVOA/GC_41.i/170202.b/a8081d.m

Injection Date and Time: 02-FEB-2017 14:49
Initial Calibration Date(s): 03-AUG-2016 02-FEB-2017
Initial Calibration Time(s): 11:20 16:04

Target Compounds	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D /Drift	Curve Type
Toxaphene	23326632.087	23114421.585	0.00	1	15	Averaged
TOXAPHENE (1)	4020356.963	3990258.018	0.00	1	15	Averaged
TOXAPHENE (2)	7044203.974	6984220.631	0.00	1	15	Averaged
TOXAPHENE (3)	3725214.127	3679972.925	0.00	1	15	Averaged
TOXAPHENE (4)	3972429.486	3958895.537	0.00	0	15	Averaged
TOXAPHENE (5)	4564427.536	4501074.474	0.00	1	15	Averaged

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Data File: /chem1/SVOA/GC_41.i/170202.b/a17020202.d
Report Date: 03-Feb-2017 09:32

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170202.b/a17020202.d
Lab Smp Id:
Inj Date : 02-FEB-2017 10:33
Operator : 669 Inst ID: GC_41.i
Smp Info : P-ICAL1 P091716E 10PPB
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170202.b/a8081d.m
Meth Date : 02-Feb-2017 16:50 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 15:04 Cal File: a17020220.d
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PEST.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
T 1	2,4,5,6-Tetrachloro-m-Xylene	2.845	2.823	0.022	2114250519	20.0000	19.869
2	Hexachlorobenzene	3.176	3.176	0.000	1434336764	10.0000	9.947(a)
3	Alpha-BHC	3.321	3.321	0.000	1650363331	10.0000	9.301(a)
4	Gamma-BHC	3.610	3.611	-0.001	1503650103	10.0000	9.403(a)
5	Beta-BHC	3.681	3.682	-0.001	628141047	10.0000	9.868(a)
6	Delta-BHC	3.860	3.860	0.000	1436545782	10.0000	9.324(a)
7	Heptachlor	4.074	4.074	0.000	1536315695	10.0000	9.605(a)
8	Aldrin	4.384	4.384	0.000	1351454197	10.0000	9.463(a)
12	Heptachlor Epoxide	4.992	4.992	0.000	1206502950	10.0000	9.622(a)
13	Gamma Chlordane	5.117	5.117	0.000	1245613207	10.0000	9.488(a)
15	Alpha Chlordane	5.249	5.249	0.000	1220269450	10.0000	9.725(a)
16	4,4'-DDE	5.311	5.311	0.000	1174190245	10.0000	9.467(a)
17	Endosulfan I	5.391	5.391	0.000	1074732989	10.0000	9.794(a)
19	Dieldrin	5.626	5.625	0.001	1154663095	10.0000	9.397(a)
21	Endrin	5.857	5.857	0.000	1000986972	10.0000	9.680(a)
23	4,4'-DDD	5.901	5.901	0.000	969103192	10.0000	9.402(a)
24	Endosulfan II	6.075	6.074	0.001	873315830	10.0000	9.938(a)
25	4,4'-DDT	6.173	6.173	0.000	1016423471	10.0000	9.551(a)
26	Endrin Aldehyde	6.475	6.474	0.001	902271928	10.0000	9.671(a)
27	Methoxychlor	6.626	6.626	0.000	597135073	10.0000	10.552
29	Endosulfan Sulfate	6.888	6.888	0.000	993990353	10.0000	9.924(a)

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Data File: /chem1/SVOA/GC_41.i/170202.b/a17020202.d
Report Date: 03-Feb-2017 09:32

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
30 Endrin Ketone	7.159	7.157	0.002	1182069049	10.0000	9.718(a)
T 31 Decachlorobiphenyl	8.065	8.071	-0.006	1997888433	20.0000	20.383

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

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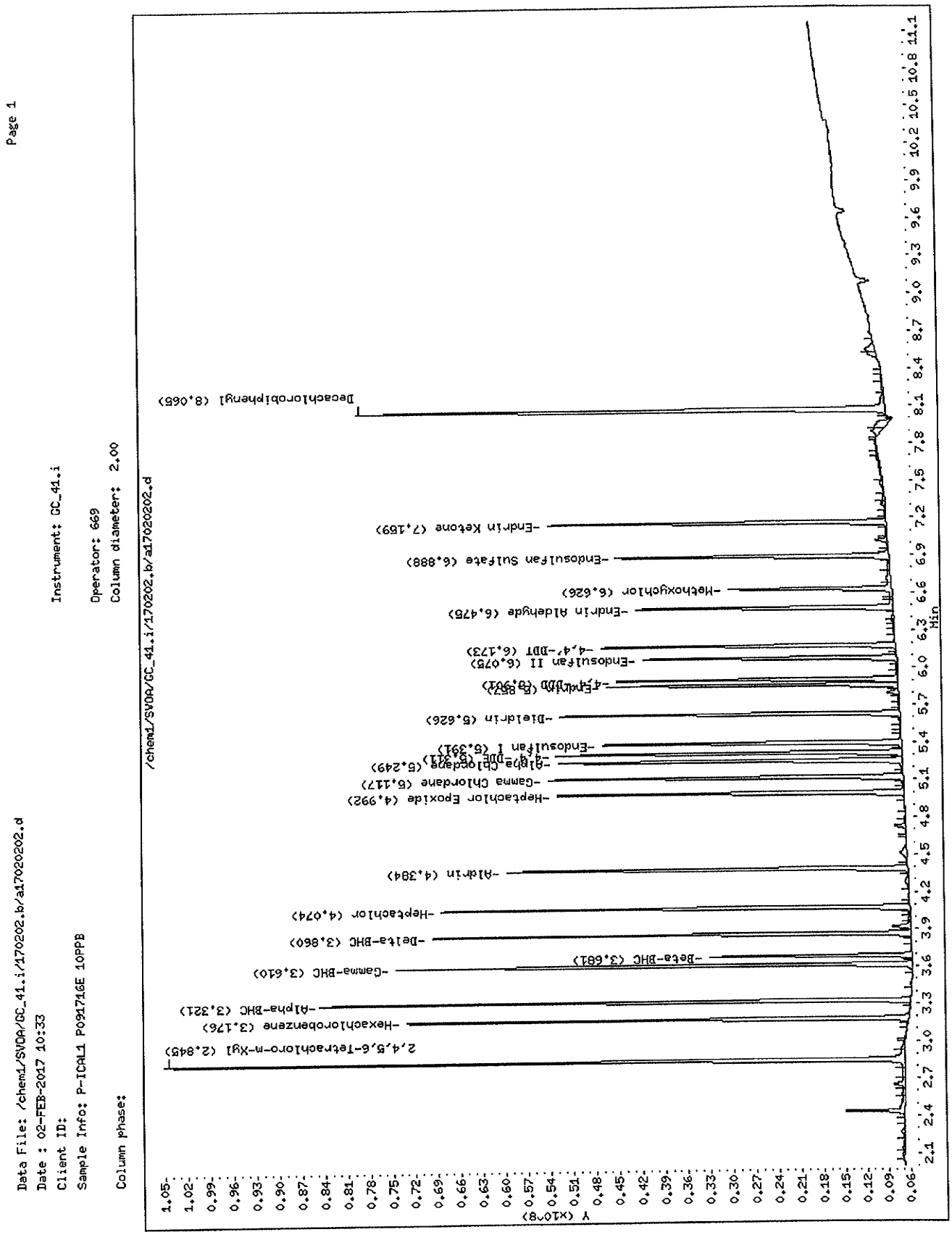

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Data File: /chem1/SVOA/GC_41.i/170202.b/a17020203.d
Report Date: 03-Feb-2017 09:32

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170202.b/a17020203.d
Lab Smp Id:
Inj Date : 02-FEB-2017 10:48
Operator : 669 Inst ID: GC_41.i
Smp Info : P-ICAL2 P091716F 20PPB
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170202.b/a8081d.m
Meth Date : 02-Feb-2017 16:50 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 15:19 Cal File: a17020221.d
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PEST.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
T	1 2,4,5,6-Tetrachloro-m-Xylene	2.845	2.845	0.000	4111221204	40.0000	38.637
	2 Hexachlorobenzene	3.176	3.176	0.000	2778788423	20.0000	19.271
	3 Alpha-BHC	3.321	3.321	0.000	3351462285	20.0000	18.889
	4 Gamma-BHC	3.611	3.610	0.001	3020565820	20.0000	18.890
	5 Beta-BHC	3.682	3.681	0.001	1219559325	20.0000	19.160
	6 Delta-BHC	3.860	3.860	0.000	2892986314	20.0000	18.777
	7 Heptachlor	4.074	4.074	0.000	3038460177	20.0000	18.997
	8 Aldrin	4.384	4.384	0.000	2685468120	20.0000	18.804
	12 Heptachlor Epoxide	4.993	4.992	0.001	2365201326	20.0000	18.864
	13 Gamma Chlordane	5.117	5.117	0.000	2457759892	20.0000	18.722
	15 Alpha Chlordane	5.250	5.249	0.001	2362163045	20.0000	18.826
	16 4,4'-DDE	5.312	5.311	0.001	2306021316	20.0000	18.593
	17 Endosulfan I	5.391	5.391	0.000	2084695201	20.0000	18.997
	19 Dieldrin	5.626	5.626	0.000	2280065703	20.0000	18.557
	21 Endrin	5.857	5.857	0.000	1949662431	20.0000	18.854
	23 4,4'-DDD	5.901	5.901	0.000	1904259132	20.0000	18.476
	24 Endosulfan II	6.074	6.075	-0.001	1692416038	20.0000	19.259
	25 4,4'-DDT	6.173	6.173	0.000	1971942523	20.0000	18.530
	26 Endrin Aldehyde	6.475	6.475	0.000	1722961596	20.0000	18.467
	27 Methoxychlor	6.625	6.626	-0.001	1056688220	20.0000	18.673
	29 Endosulfan Sulfate	6.888	6.888	0.000	1859373002	20.0000	18.565

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Data File: /chem1/SVOA/GC_41.i/170202.b/a17020203.d
Report Date: 03-Feb-2017 09:32

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppb)	(ppb)
==========	==	======	======	========	=======	=======
30 Endrin Ketone	7.158	7.159	-0.001	2230993969	20.0000	18.343
T 31 Decachlorobiphenyl	8.065	8.065	0.000	3604682885	40.0000	36.776

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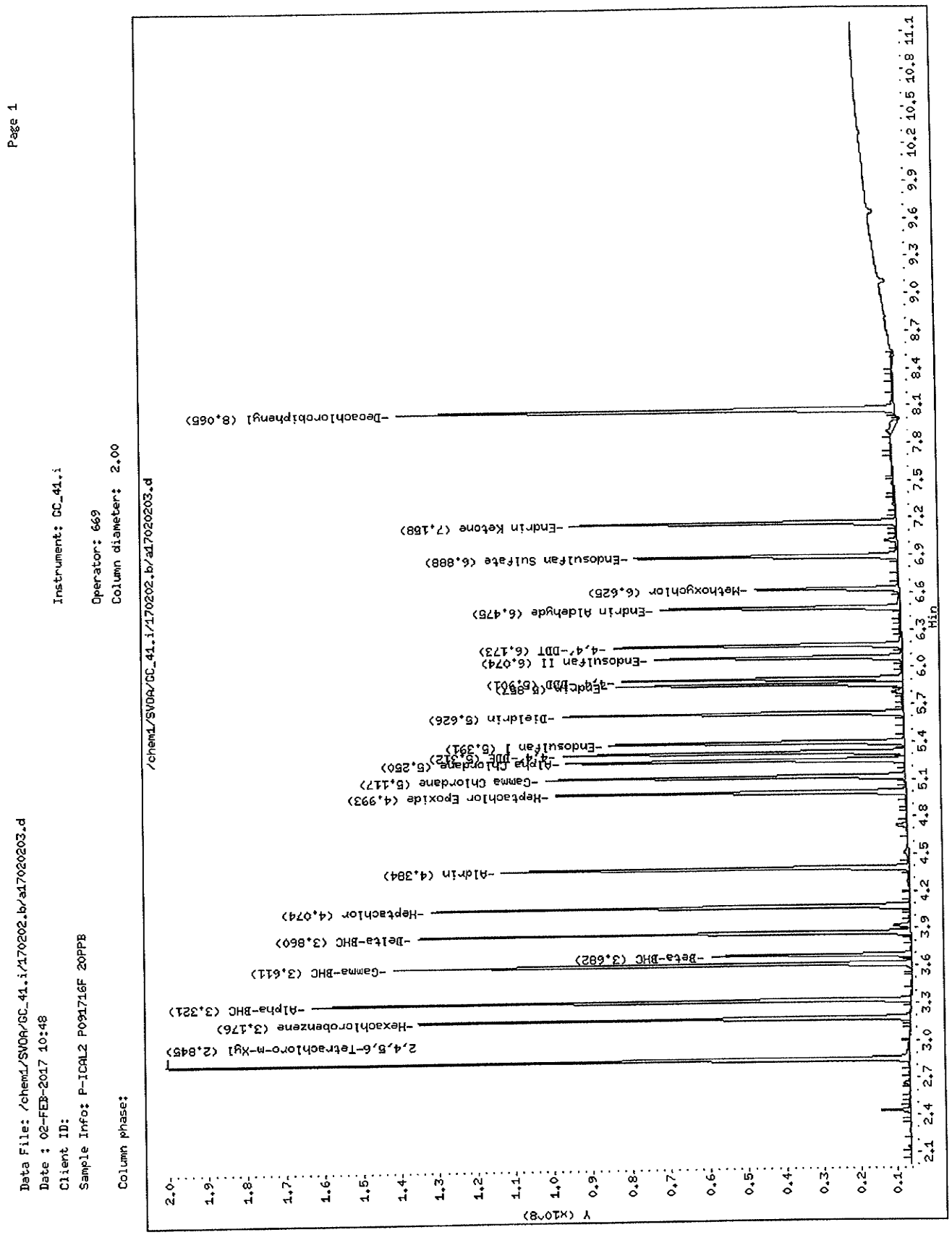

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Data File: /chem1/SVOA/GC_41.i/170202.b/a17020204.d
Report Date: 03-Feb-2017 09:32

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170202.b/a17020204.d
Lab Smp Id:
Inj Date : 02-FEB-2017 11:03 Inst ID: GC_41.i
Operator : 669
Smp Info : P-ICAL3 P091716G 40PPB
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170202.b/a8081d.m
Meth Date : 02-Feb-2017 16:50 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 15:34 Cal File: a17020222.d
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PEST.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
T	1 2,4,5,6-Tetrachloro-m-Xylene	2.845	2.845	0.000	8515547602	80.0000	80.028
	2 Hexachlorobenzene	3.177	3.176	0.001	5774739239	40.0000	40.048
	3 Alpha-BHC	3.321	3.321	0.000	7206011151	40.0000	40.614
	4 Gamma-BHC	3.611	3.611	0.000	6471883639	40.0000	40.475
	5 Beta-BHC	3.682	3.682	0.000	2551886534	40.0000	40.092
	6 Delta-BHC	3.860	3.860	0.000	6249832351	40.0000	40.565
	7 Heptachlor	4.075	4.074	0.001	6467269491	40.0000	40.435
	8 Aldrin	4.385	4.384	0.001	5793627280	40.0000	40.569
	12 Heptachlor Epoxide	4.993	4.993	0.000	5052299418	40.0000	40.296
	13 Gamma Chlordane	5.118	5.117	0.001	5304168697	40.0000	40.405
	15 Alpha Chlordane	5.250	5.250	0.000	5037745218	40.0000	40.150
	16 4,4'-DDE	5.312	5.312	0.000	5012648747	40.0000	40.416
	17 Endosulfan I	5.392	5.391	0.001	4389076725	40.0000	39.997
	19 Dieldrin	5.626	5.626	0.000	4965768685	40.0000	40.416
	21 Endrin	5.858	5.857	0.001	4145837942	40.0000	40.093
	23 4,4'-DDD	5.901	5.901	0.000	4164565732	40.0000	40.406
	24 Endosulfan II	6.075	6.074	0.001	3476887850	40.0000	39.567
	25 4,4'-DDT	6.173	6.173	0.000	4282178379	40.0000	40.240
	26 Endrin Aldehyde	6.475	6.475	0.000	3729961012	40.0000	39.980
	27 Methoxychlor	6.626	6.625	0.001	2211994699	40.0000	39.089
	29 Endosulfan Sulfate	6.889	6.888	0.001	3983134787	40.0000	39.770

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Data File: /chem1/SVOA/GC_41.i/170202.b/a17020204.d
Report Date: 03-Feb-2017 09:32

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
30 Endrin Ketone	7.159	7.158	0.001	4845778483	40.0000	39.841
T 31 Decachlorobiphenyl	8.066	8.065	0.001	7684479943	80.0000	78.399

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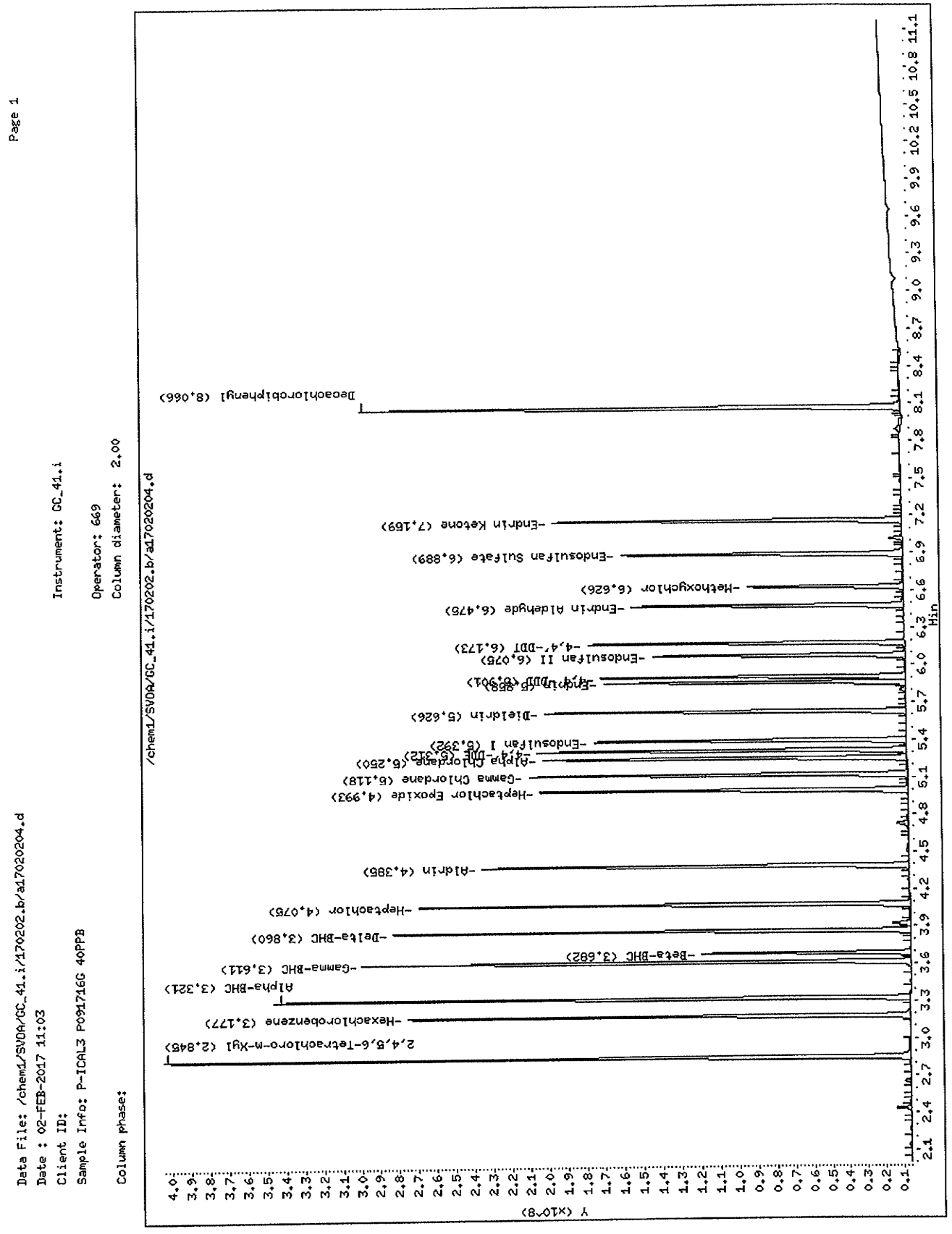

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Data File: /chem1/SVOA/GC_41.i/170202.b/a17020205.d
Report Date: 03-Feb-2017 09:32

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170202.b/a17020205.d
Lab Smp Id:
Inj Date : 02-FEB-2017 11:18
Operator : 669 Inst ID: GC_41.i
Smp Info : P-ICAL4 P091716H 60PPB
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170202.b/a8081d.m
Meth Date : 02-Feb-2017 16:50 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 15:49 Cal File: a17020223.d
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PEST.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
T	1 2,4,5,6-Tetrachloro-m-Xylene	2.846	2.845	0.001	13079904620	120.000	122.924
	2 Hexachlorobenzene	3.177	3.177	0.000	8908742580	60.0000	61.783
	3 Alpha-BHC	3.322	3.321	0.001	11273341729	60.0000	63.538
	4 Gamma-BHC	3.611	3.611	0.000	10143192601	60.0000	63.435
	5 Beta-BHC	3.682	3.682	0.000	3952297645	60.0000	62.094
	6 Delta-BHC	3.861	3.860	0.001	9848651615	60.0000	63.924
	7 Heptachlor	4.075	4.075	0.000	10074204759	60.0000	62.987
	8 Aldrin	4.385	4.385	0.000	9064850048	60.0000	63.475
	12 Heptachlor Epoxide	4.993	4.993	0.000	7927437336	60.0000	63.227
	13 Gamma Chlordane	5.118	5.118	0.000	8361750880	60.0000	63.697
	15 Alpha Chlordane	5.250	5.250	0.000	7924013478	60.0000	63.153
	16 4,4'-DDE	5.312	5.312	0.000	7951781370	60.0000	64.114
	17 Endosulfan I	5.392	5.392	0.000	6899334802	60.0000	62.873
	19 Dieldrin	5.626	5.626	0.000	7916427671	60.0000	64.432
	21 Endrin	5.857	5.858	-0.001	6617194640	60.0000	63.992
	23 4,4'-DDD	5.901	5.901	0.000	6675133752	60.0000	64.765
	24 Endosulfan II	6.074	6.075	-0.001	5519849056	60.0000	62.816
	25 4,4'-DDT	6.173	6.173	0.000	6860788883	60.0000	64.472
	26 Endrin Aldehyde	6.475	6.475	0.000	6014805844	60.0000	64.470
	27 Methoxychlor	6.626	6.626	0.000	3562411760	60.0000	62.953
	29 Endosulfan Sulfate	6.889	6.889	0.000	6406419568	60.0000	63.966

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Data File: /chem1/SVOA/GC_41.i/170202.b/a17020205.d
Report Date: 03-Feb-2017 09:32

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
30 Endrin Ketone	7.158	7.159	-0.001	7865018850	60.0000	64.665
T 31 Decachlorobiphenyl	8.066	8.066	0.000	12572324640	120.000	128.267

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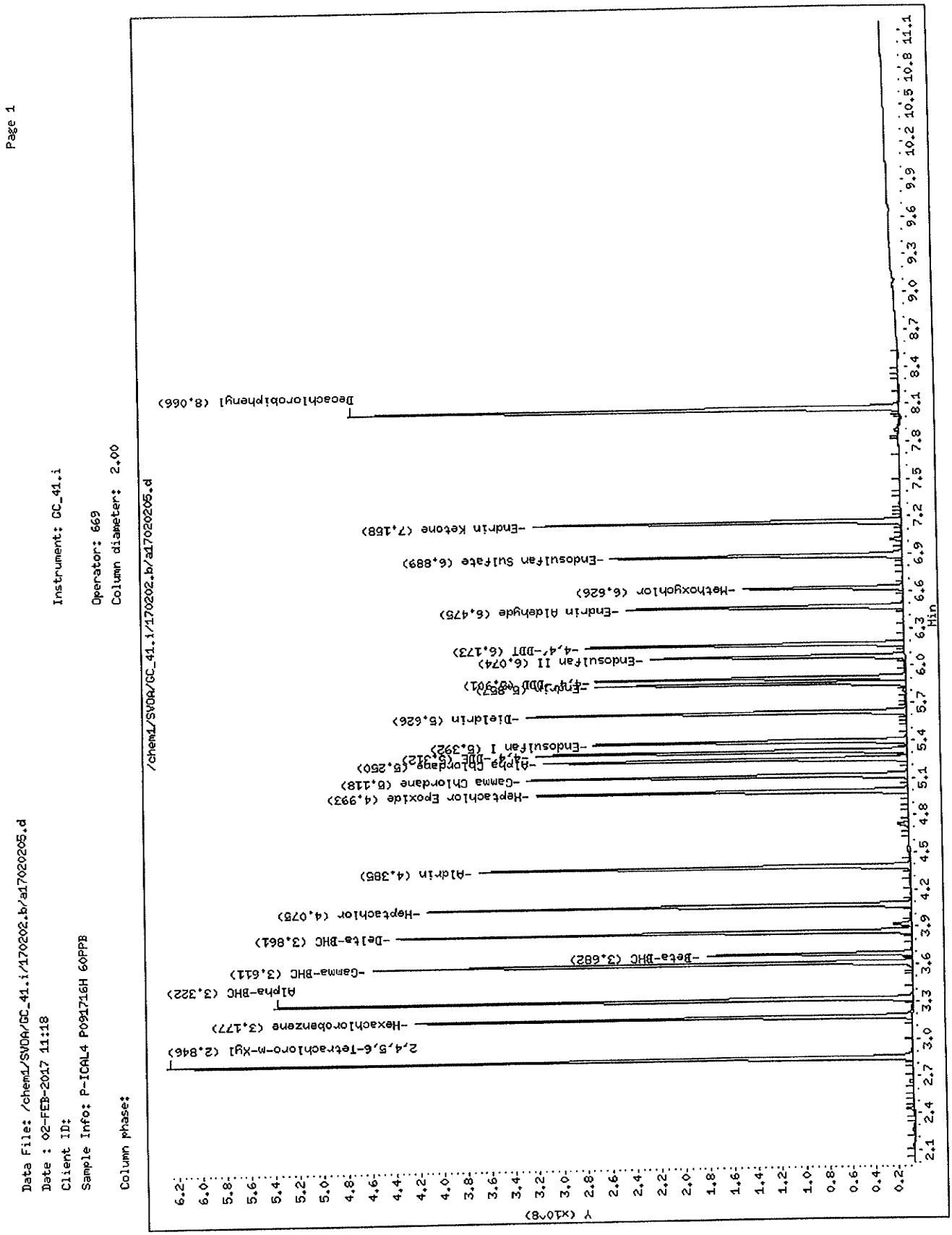

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Data File: /chem1/SVOA/GC_41.i/170202.b/a17020206.d
Report Date: 03-Feb-2017 09:32

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170202.b/a17020206.d
Lab Smp Id:
Inj Date : 02-FEB-2017 11:33
Operator : 669 Inst ID: GC_41.i
Smp Info : P-ICAL5 P091716J 80PPB
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170202.b/a8081d.m
Meth Date : 02-Feb-2017 16:50 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: a17020224.d
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PEST.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

						AMOUNTS	
						CAL-AMT	ON-COL
Compounds		RT	EXP RT	DLT RT	RESPONSE	(ppb)	(ppb)
T	1 2,4,5,6-Tetrachloro-m-Xylene	2.846	2.846	0.000	17294801112	160.000	162.536
	2 Hexachlorobenzene	3.177	3.177	0.000	11659715917	80.0000	80.861
	3 Alpha-BHC	3.322	3.322	0.000	14918662859	80.0000	84.083
	4 Gamma-BHC	3.612	3.611	0.001	13379618788	80.0000	83.676
	5 Beta-BHC	3.683	3.682	0.001	5183091561	80.0000	81.431
	6 Delta-BHC	3.861	3.861	0.000	12931516479	80.0000	83.934
	7 Heptachlor	4.075	4.075	0.000	13165002805	80.0000	82.311
	8 Aldrin	4.385	4.385	0.000	11896407397	80.0000	83.302
	12 Heptachlor Epoxide	4.993	4.993	0.000	10364163100	80.0000	82.662
	13 Gamma Chlordane	5.118	5.118	0.000	10955674605	80.0000	83.457
	15 Alpha Chlordane	5.250	5.250	0.000	10337538894	80.0000	82.388
	16 4,4'-DDE	5.312	5.312	0.000	10364643410	80.0000	83.569
	17 Endosulfan I	5.392	5.392	0.000	8979236886	80.0000	81.828
	19 Dieldrin	5.626	5.626	0.000	10301211359	80.0000	83.842
	21 Endrin	5.857	5.857	0.000	8440949843	80.0000	81.629
	23 4,4'-DDD	5.901	5.901	0.000	8627121947	80.0000	83.705
	24 Endosulfan II	6.074	6.074	0.000	7079356604	80.0000	80.563
	25 4,4'-DDT	6.173	6.173	0.000	8834629822	80.0000	83.020
	26 Endrin Aldehyde	6.475	6.475	0.000	7728244647	80.0000	82.836
	27 Methoxychlor	6.626	6.626	0.000	4457452209	80.0000	78.770
	29 Endosulfan Sulfate	6.888	6.889	-0.001	8163331209	80.0000	81.509

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Data File: /chem1/SVOA/GC_41.i/170202.b/a17020206.d
Report Date: 03-Feb-2017 09:32

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
30 Endrin Ketone	7.159	7.158	0.001	10091763122	80.0000	82.973
T 31 Decachlorobiphenyl	8.066	8.066	0.000	15879533390	160.000	162.008

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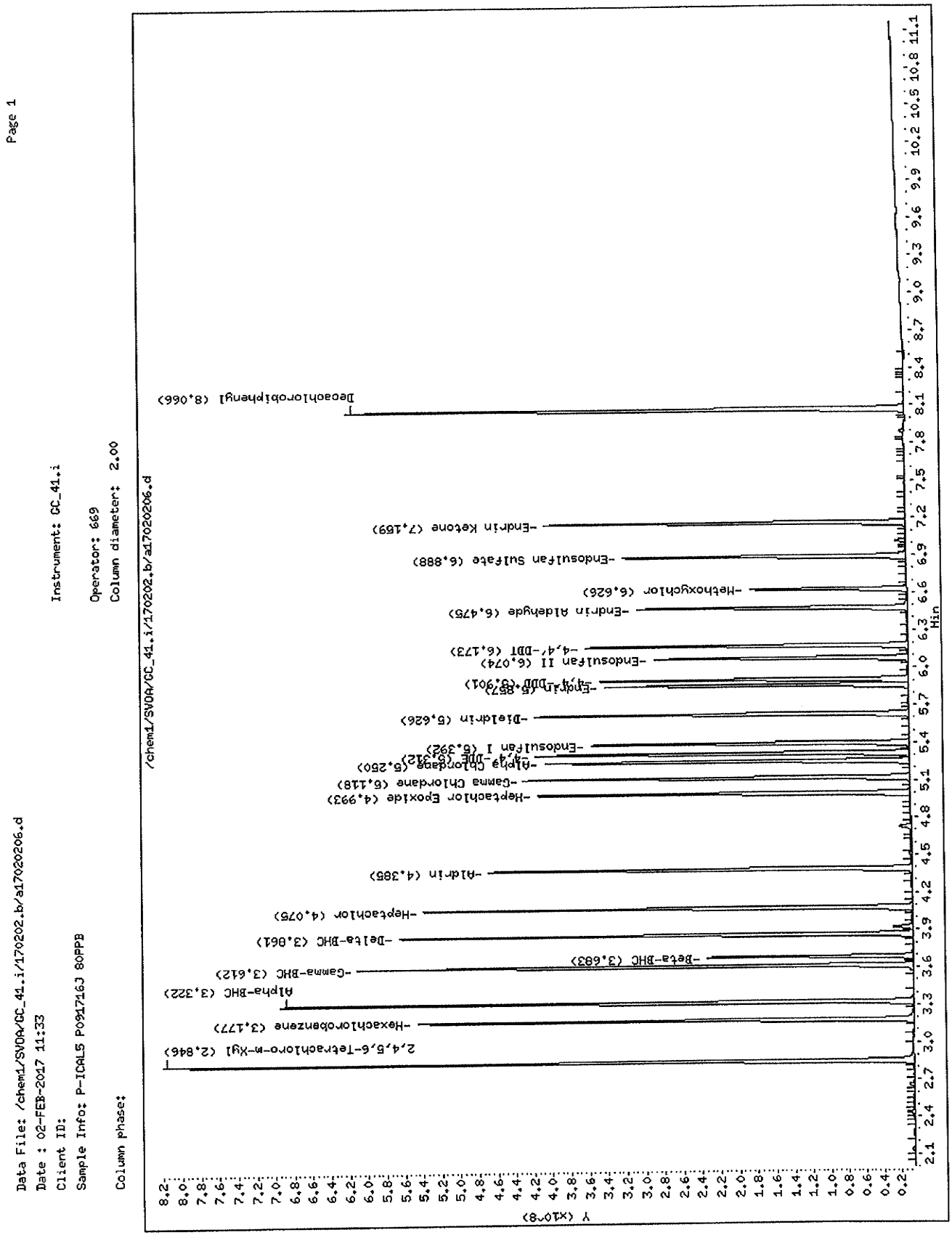

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Data File: /chem1/SVOA/GC_41.i/170202.b/a17020207.d
Report Date: 03-Feb-2017 09:32

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170202.b/a17020207.d
Lab Smp Id:
Inj Date : 02-FEB-2017 11:48 Inst ID: GC_41.i
Operator : 669
Smp Info : P-ICV P091716L 40PPB
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170202.b/a8081d.m
Meth Date : 02-Feb-2017 16:50 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: a17020224.d
Als bottle: 7 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PEST.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
T	1 2,4,5,6-Tetrachloro-m-Xylene	2.845	2.846	-0.001	8581883607	80.0000	80.652
	2 Hexachlorobenzene	3.176	3.177	-0.001	5584371803	40.0000	38.728
	3 Alpha-BHC	3.321	3.322	-0.001	6977957955	40.0000	39.328
	4 Gamma-BHC	3.611	3.612	-0.001	6054509552	40.0000	37.864
	5 Beta-BHC	3.682	3.683	-0.001	2498980054	40.0000	39.261
	6 Delta-BHC	3.860	3.861	-0.001	6212236063	40.0000	40.321
	7 Heptachlor	4.074	4.075	-0.001	6128672585	40.0000	38.318
	8 Aldrin	4.384	4.385	-0.001	5969850987	40.0000	41.803
	12 Heptachlor Epoxide	4.992	4.993	-0.001	5313593700	40.0000	42.380
	13 Gamma Chlordane	5.117	5.118	-0.001	5396544756	40.0000	41.109
	15 Alpha Chlordane	5.249	5.250	-0.001	5069862915	40.0000	40.406
	16 4,4'-DDE	5.311	5.312	-0.001	5014319716	40.0000	40.429
	17 Endosulfan I	5.391	5.392	-0.001	4638622235	40.0000	42.271
	19 Dieldrin	5.625	5.626	-0.001	5280284660	40.0000	42.976
	21 Endrin	5.857	5.857	0.000	3988948264	40.0000	38.575
	23 4,4'-DDD	5.901	5.901	0.000	4167873538	40.0000	40.438
	24 Endosulfan II	6.074	6.074	0.000	3961038559	40.0000	45.076
	25 4,4'-DDT	6.173	6.173	0.000	4384256524	40.0000	41.199
	26 Endrin Aldehyde	6.474	6.475	-0.001	3633681167	40.0000	38.948
	27 Methoxychlor	6.626	6.626	0.000	2179309301	40.0000	38.511
	29 Endosulfan Sulfate	6.888	6.888	0.000	4076284162	40.0000	40.700

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Data File: /chem1/SVOA/GC_41.i/170202.b/a17020207.d
Report Date: 03-Feb-2017 09:32

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	30 Endrin Ketone	7.157	7.159	-0.002	5131900259	40.0000	42.193
T	31 Decachlorobiphenyl	8.065	8.066	-0.001	7738688782	80.0000	78.952

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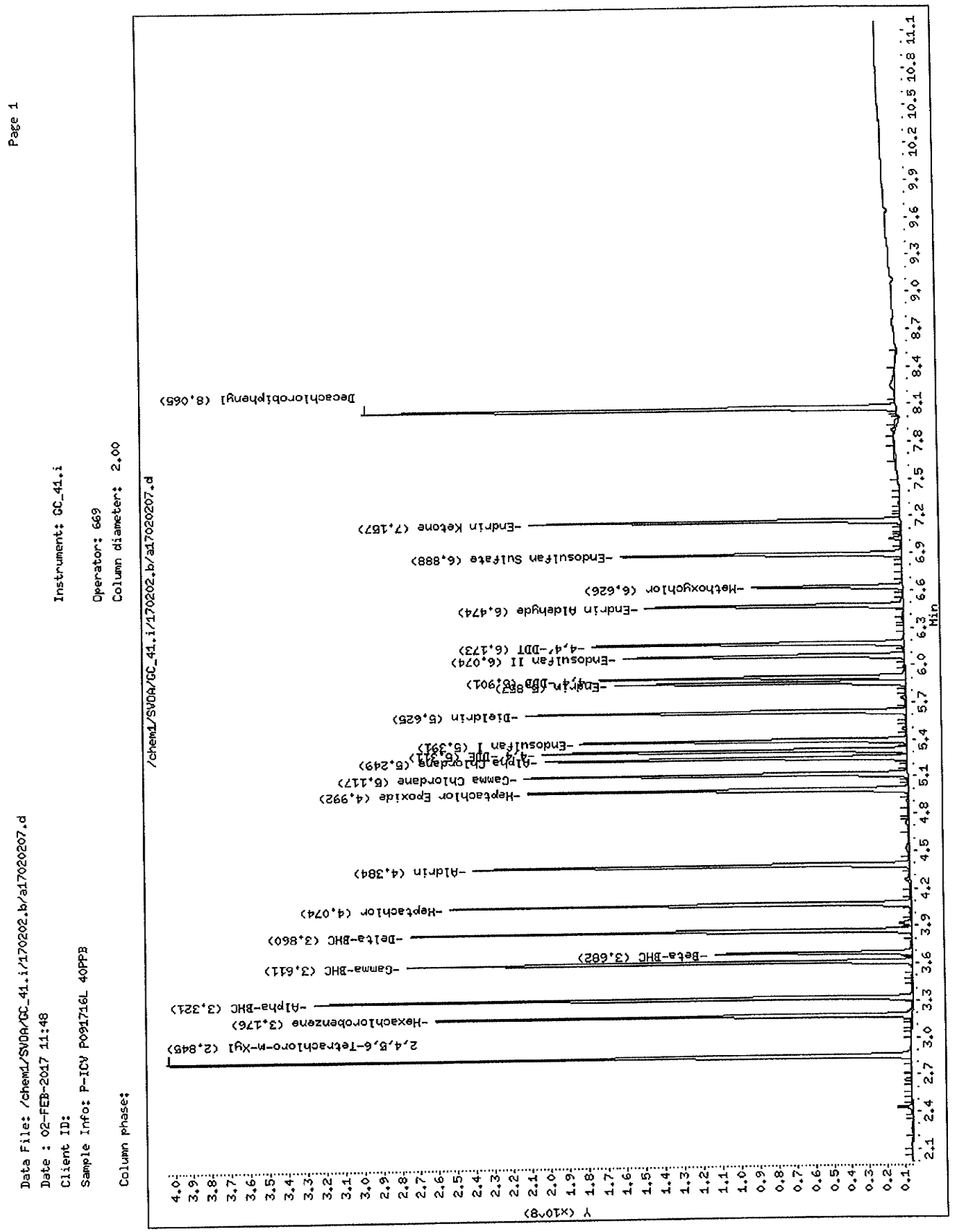

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Data File: /chem1/SVOA/GC_41.i/170202.b/a17020208.d
Report Date: 03-Feb-2017 09:33

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170202.b/a17020208.d
Lab Smp Id:
Inj Date : 02-FEB-2017 12:03 Inst ID: GC_41.i
Operator : 669
Smp Info : CH-ICAL1 P091716P 100PPB
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170202.b/a8081d.m
Meth Date : 02-Feb-2017 16:50 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 15:04 Cal File: a17020220.d
Als bottle: 8 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: chlordane.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
M 32 Chlordane				5691887617	100.000	91.980(a)
33 CHLD (1)	3.993	3.994	-0.001	494184029	100.000	90.558
34 CHLD (2)	4.513	4.514	-0.001	628068859	100.000	111.973
35 CHLD (3)	4.925	4.925	0.000	335057901	100.000	102.778
36 CHLD (4)	5.117	5.117	0.000	1668366345	100.000	88.363
37 CHLD (5)	5.246	5.246	0.000	2566210483	100.000	89.494

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

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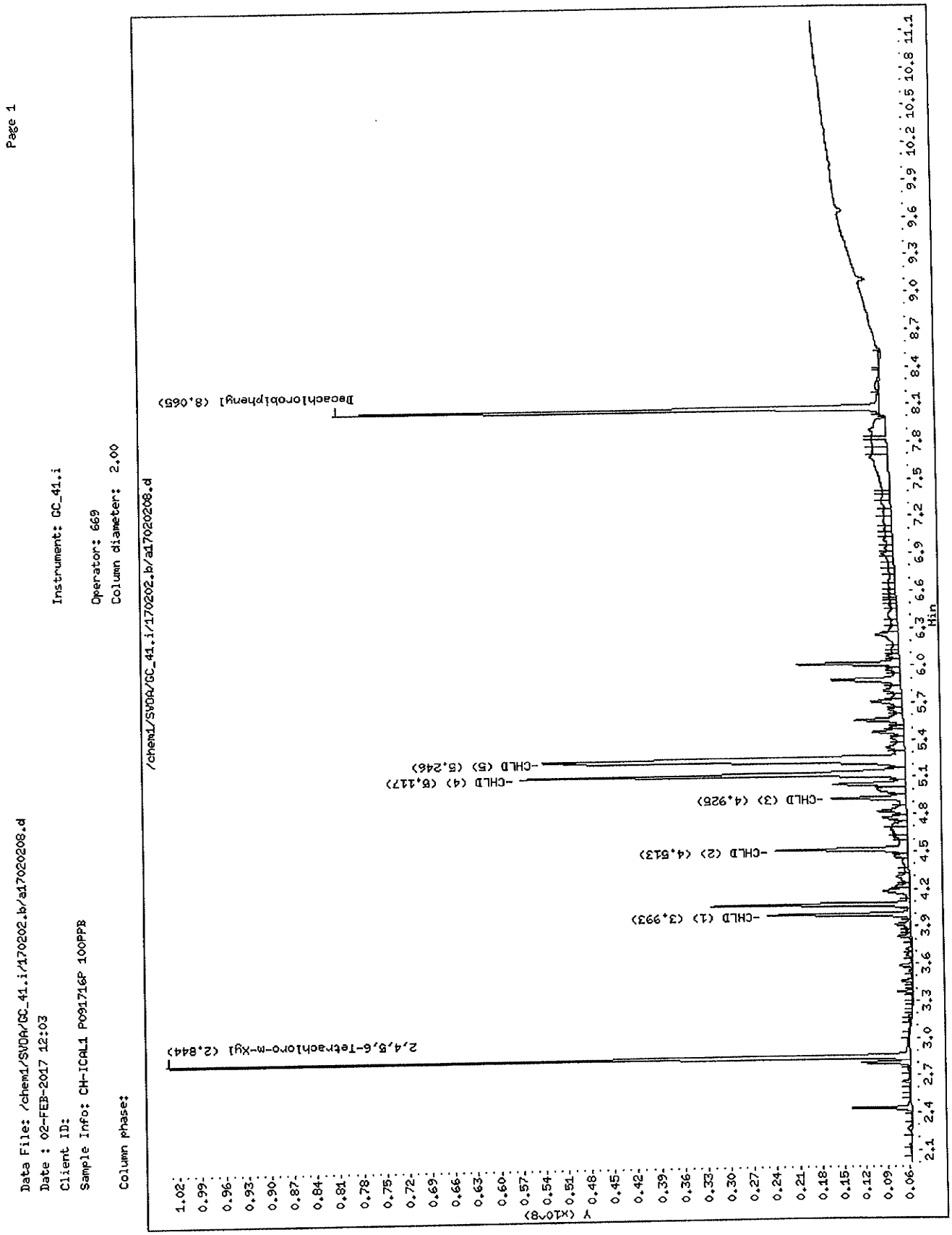

Data File: /chem1/SVOA/GC_41.i/170202.b/a17020209.d
Report Date: 03-Feb-2017 09:33

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170202.b/a17020209.d
Lab Smp Id:
Inj Date : 02-FEB-2017 12:18 Inst ID: GC_41.i
Operator : 669
Smp Info : CH-ICAL2 P091716Q 250PPB
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170202.b/a8081d.m
Meth Date : 02-Feb-2017 16:50 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 15:19 Cal File: a17020221.d
Als bottle: 9 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: chlordane.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
M 32 Chlordane				14029244604	250.000	226.712
33 CHLD (1)	3.995	3.993	0.002	1233381079	250.000	226.015
34 CHLD (2)	4.514	4.513	0.001	1304281305	250.000	232.529
35 CHLD (3)	4.926	4.925	0.001	744682139	250.000	228.431
36 CHLD (4)	5.118	5.117	0.001	4294017186	250.000	227.427
37 CHLD (5)	5.246	5.246	0.000	6452882895	250.000	225.039

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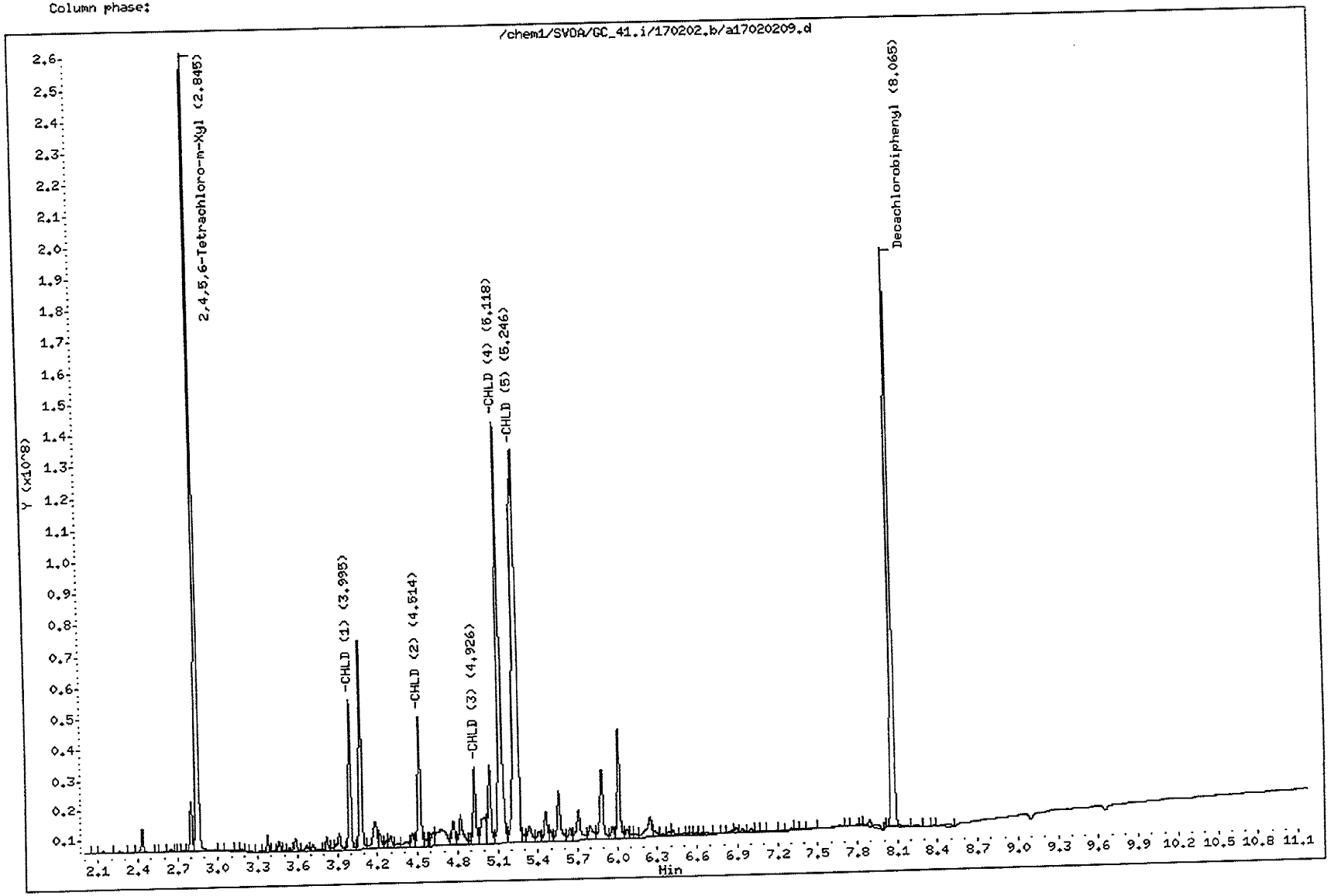
Data File: /chem1/SVOA/GC_41.i/170202.b/a17020209.d
Date : 02-FEB-2017 12:18
Client ID:
Sample Info: CH-ICAL2 P091716Q 250PPB

Instrument: GC_41.i

Operator: 669
Column diameter: 2.00

Column phase:



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Data File: /chem1/SVOA/GC_41.i/170202.b/a17020210.d
Report Date: 03-Feb-2017 09:33

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170202.b/a17020210.d
Lab Smp Id:
Inj Date : 02-FEB-2017 12:33
Operator : 669 Inst ID: GC_41.i
Smp Info : CH-ICAL3 P091716R 500PPB
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170202.b/a8081d.m
Meth Date : 02-Feb-2017 16:50 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 15:34 Cal File: a17020222.d
Als bottle: 10 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: chlordane.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
M 32 Chlordane				34825473319	500.000	562.778
33 CHLD (1)	3.994	3.995	-0.001	3157707335	500.000	578.645
34 CHLD (2)	4.514	4.514	0.000	3034107783	500.000	540.925
35 CHLD (3)	4.925	4.926	-0.001	1772740931	500.000	543.788
36 CHLD (4)	5.118	5.118	0.000	10630331527	500.000	563.023
37 CHLD (5)	5.246	5.246	0.000	16230585744	500.000	566.030

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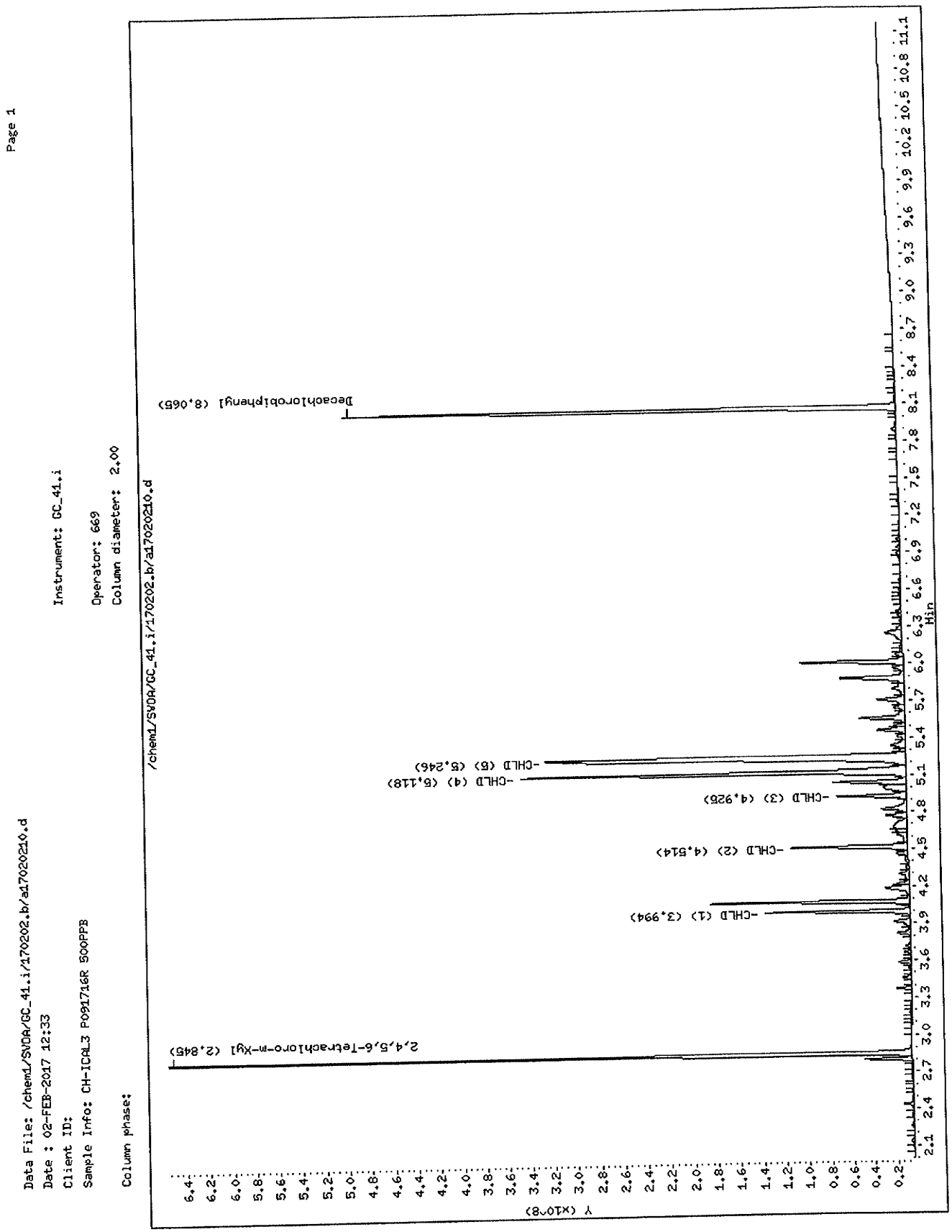

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Data File: /chem1/SVOA/GC_41.i/170202.b/a17020211.d
Report Date: 03-Feb-2017 09:33

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170202.b/a17020211.d
Lab Smp Id:
Inj Date : 02-FEB-2017 12:48 Inst ID: GC_41.i
Operator : 669
Smp Info : CH-ICAL4 P091716S 750PPB
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170202.b/a8081d.m
Meth Date : 02-Feb-2017 16:50 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 15:49 Cal File: a17020223.d
Als bottle: 11 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: chlordane.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
M 32 Chlordane				45699276588	750.000	738.498
33 CHLD (1)	3.995	3.994	0.001	4069654174	750.000	745.758
34 CHLD (2)	4.514	4.514	0.000	3888707261	750.000	693.284
35 CHLD (3)	4.926	4.925	0.001	2336002126	750.000	716.568
36 CHLD (4)	5.118	5.118	0.000	14126134749	750.000	748.175
37 CHLD (5)	5.247	5.246	0.001	21278778279	750.000	742.082

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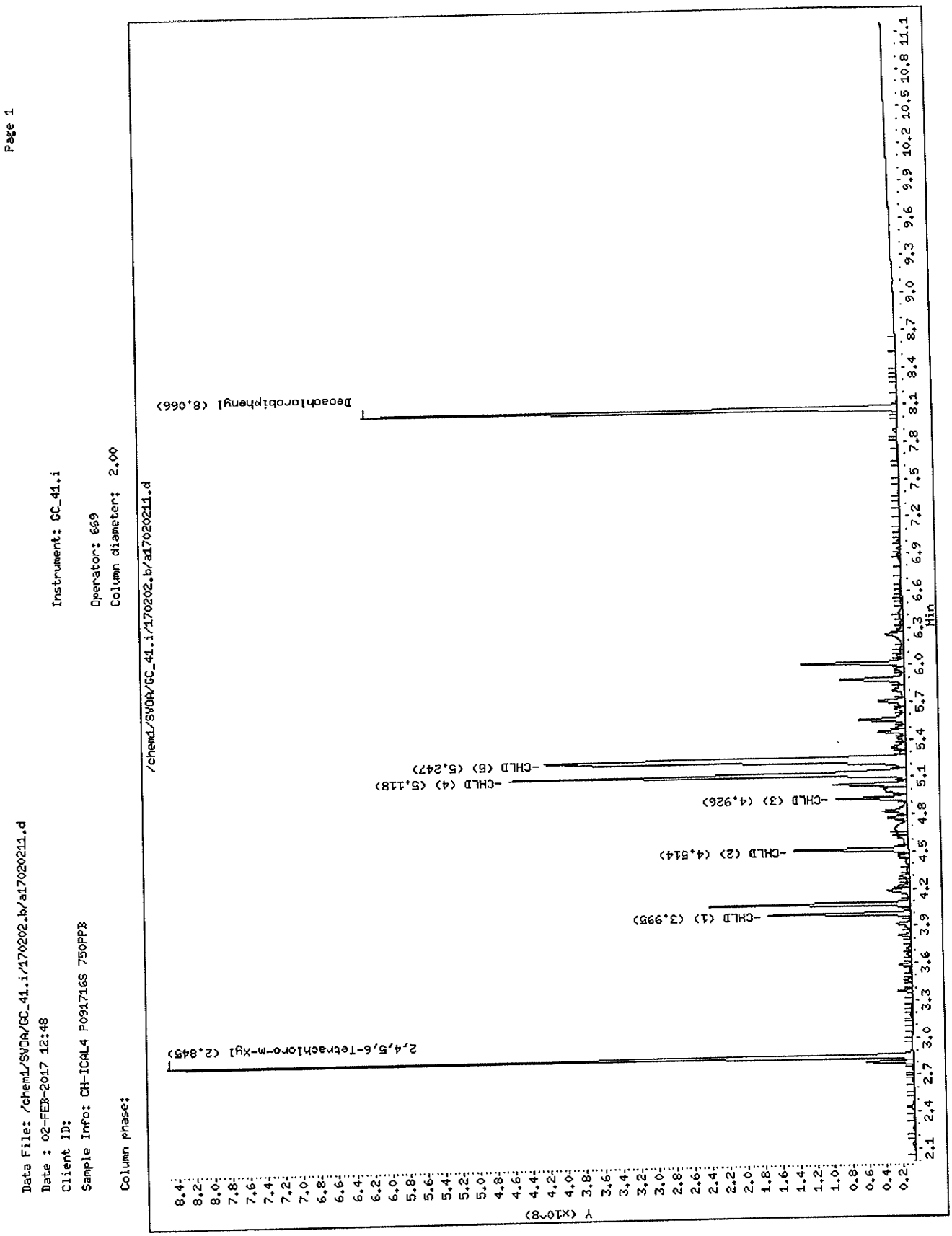

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Report Date: 03-Feb-2017 09:33

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170202.b/a17020212.d
Lab Smp Id:
Inj Date : 02-FEB-2017 13:03 Inst ID: GC_41.i
Operator : 669
Smp Info : CH-ICAL5 P091716T 2000PPB
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170202.b/a8081d.m
Meth Date : 02-Feb-2017 16:50 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: a17020224.d
Als bottle: 12 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: chlordane.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
M 32 Chlordane				131575097440	2000.00	2126.248(A)
33 CHLD (1)	3.995	3.995	0.000	11336712834	2000.00	2077.436(A)
34 CHLD (2)	4.514	4.514	0.000	10589095306	2000.00	1887.840
35 CHLD (3)	4.926	4.926	0.000	6620923848	2000.00	2030.968(A)
36 CHLD (4)	5.118	5.118	0.000	40897404634	2000.00	2166.085(A)
37 CHLD (5)	5.247	5.247	0.000	62130960818	2000.00	2166.774(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

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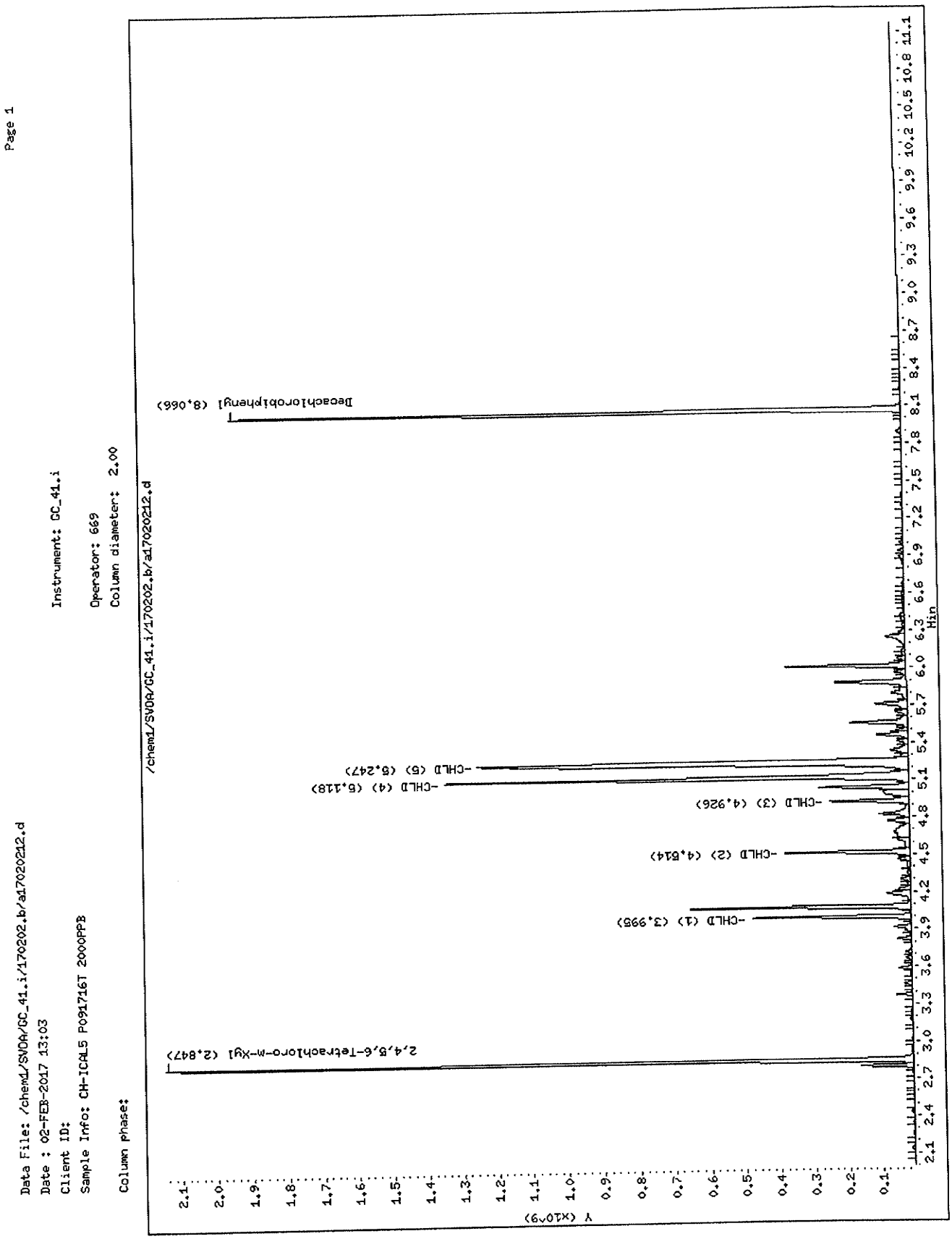

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Report Date: 03-Feb-2017 09:33

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170202.b/a17020213.d
Lab Smp Id:
Inj Date : 02-FEB-2017 13:18 Inst ID: GC_41.i
Operator : 669
Smp Info : CH-ICVP091716V 500PPB
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170202.b/a8081d.m
Meth Date : 02-Feb-2017 16:50 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: a17020224.d
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: chlordane.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
M 32 Chlordane				34964715410	500.000	565.028
33 CHLD (1)	3.994	3.995	-0.001	3096890484	500.000	567.500
34 CHLD (2)	4.514	4.514	0.000	3005028368	500.000	535.741
35 CHLD (3)	4.925	4.926	-0.001	1787829430	500.000	548.416
36 CHLD (4)	5.117	5.118	-0.001	10764049156	500.000	570.105
37 CHLD (5)	5.246	5.247	-0.001	16310917972	500.000	568.832

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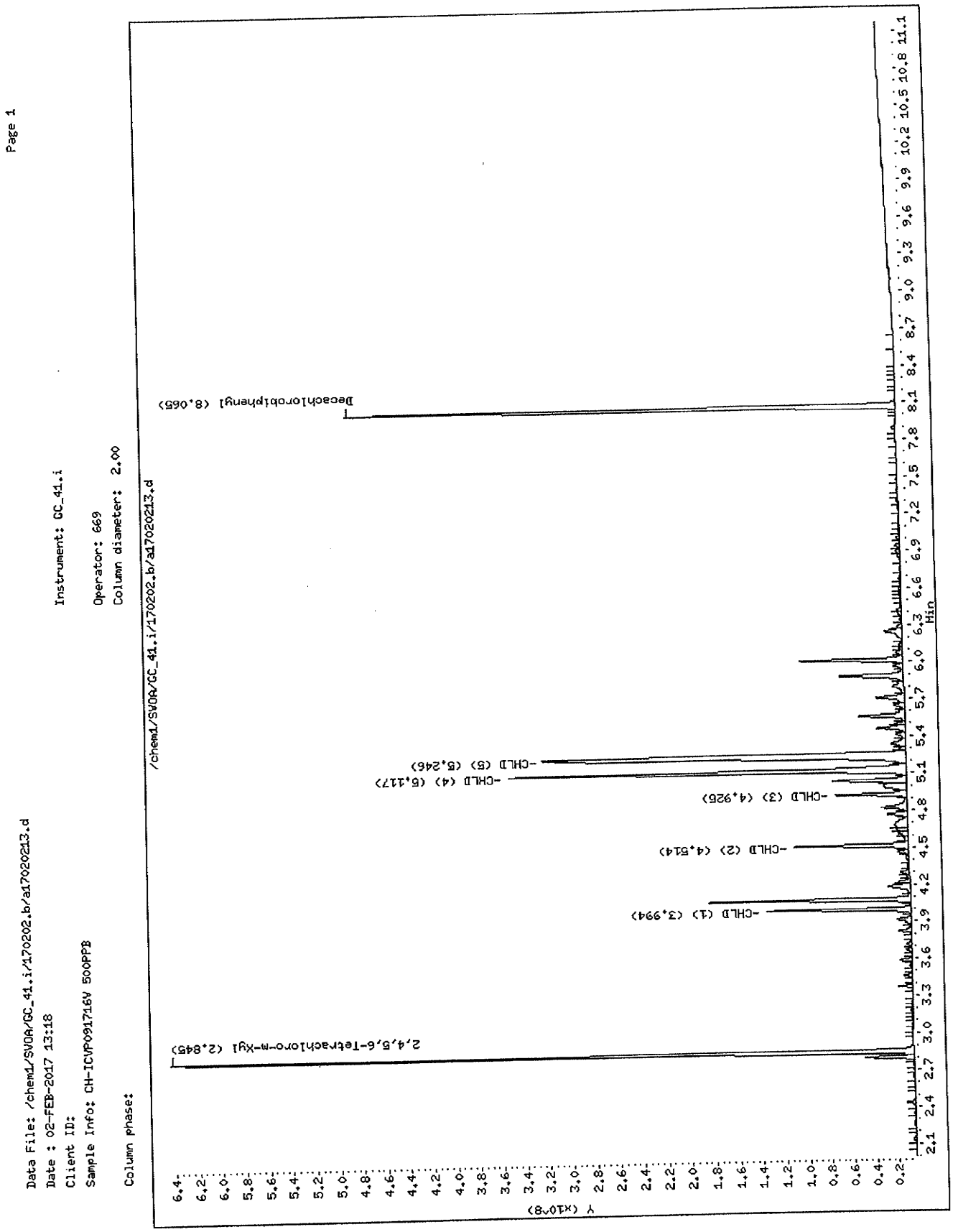

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Data File: /chem1/SVOA/GC_41.i/170202.b/a17020214.d
Report Date: 03-Feb-2017 09:33

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170202.b/a17020214.d
Lab Smp Id:
Inj Date : 02-FEB-2017 13:33
Operator : 669 Inst ID: GC_41.i
Smp Info : TOX-ICAL1 P091716X 200PPB
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170202.b/a8081d.m
Meth Date : 02-Feb-2017 16:50 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 15:04 Cal File: a17020220.d
Als bottle: 14 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: toxaphene.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
M 38 Toxaphene				4346190555	200.000	186.318(a)
39 TOXAPHENE (1)	5.779	5.777	0.002	745389154	200.000	185.403
40 TOXAPHENE (2)	6.179	6.176	0.003	1319953294	200.000	187.381
41 TOXAPHENE (3)	6.390	6.388	0.002	694404837	200.000	186.406
42 TOXAPHENE (4)	6.707	6.706	0.001	729960506	200.000	183.756
43 TOXAPHENE (5)	6.801	6.799	0.002	856482764	200.000	187.642

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

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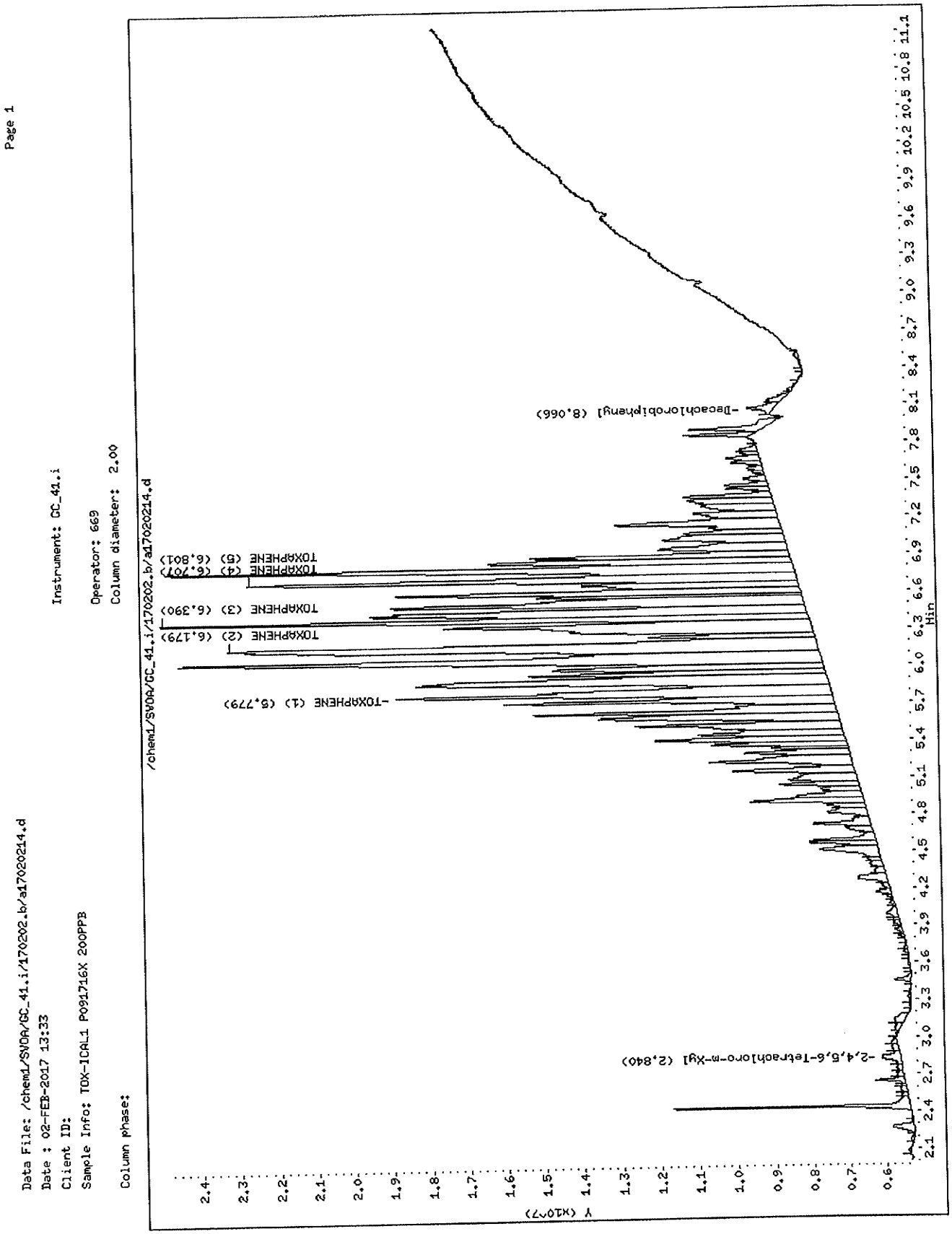

Data File: /chem1/SVOA/GC_41.i/170202.b/a17020215.d
Report Date: 03-Feb-2017 09:33

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170202.b/a17020215.d
Lab Smp Id:
Inj Date : 02-FEB-2017 13:48
Operator : 669 Inst ID: GC_41.i
Smp Info : TOX-ICAL2 P091716Y 500PPB
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170202.b/a8081d.m
Meth Date : 02-Feb-2017 16:50 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 15:19 Cal File: a17020221.d
Als bottle: 15 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: toxaphene.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
M 38 Toxaphene				11706055752	500.000	501.832
39 TOXAPHENE (1)	5.778	5.779	-0.001	2033557934	500.000	505.815
40 TOXAPHENE (2)	6.178	6.179	-0.001	3539119291	500.000	502.415
41 TOXAPHENE (3)	6.390	6.390	0.000	1872835146	500.000	502.745
42 TOXAPHENE (4)	6.707	6.707	0.000	1983464567	500.000	499.307
43 TOXAPHENE (5)	6.800	6.801	-0.001	2277078814	500.000	498.875

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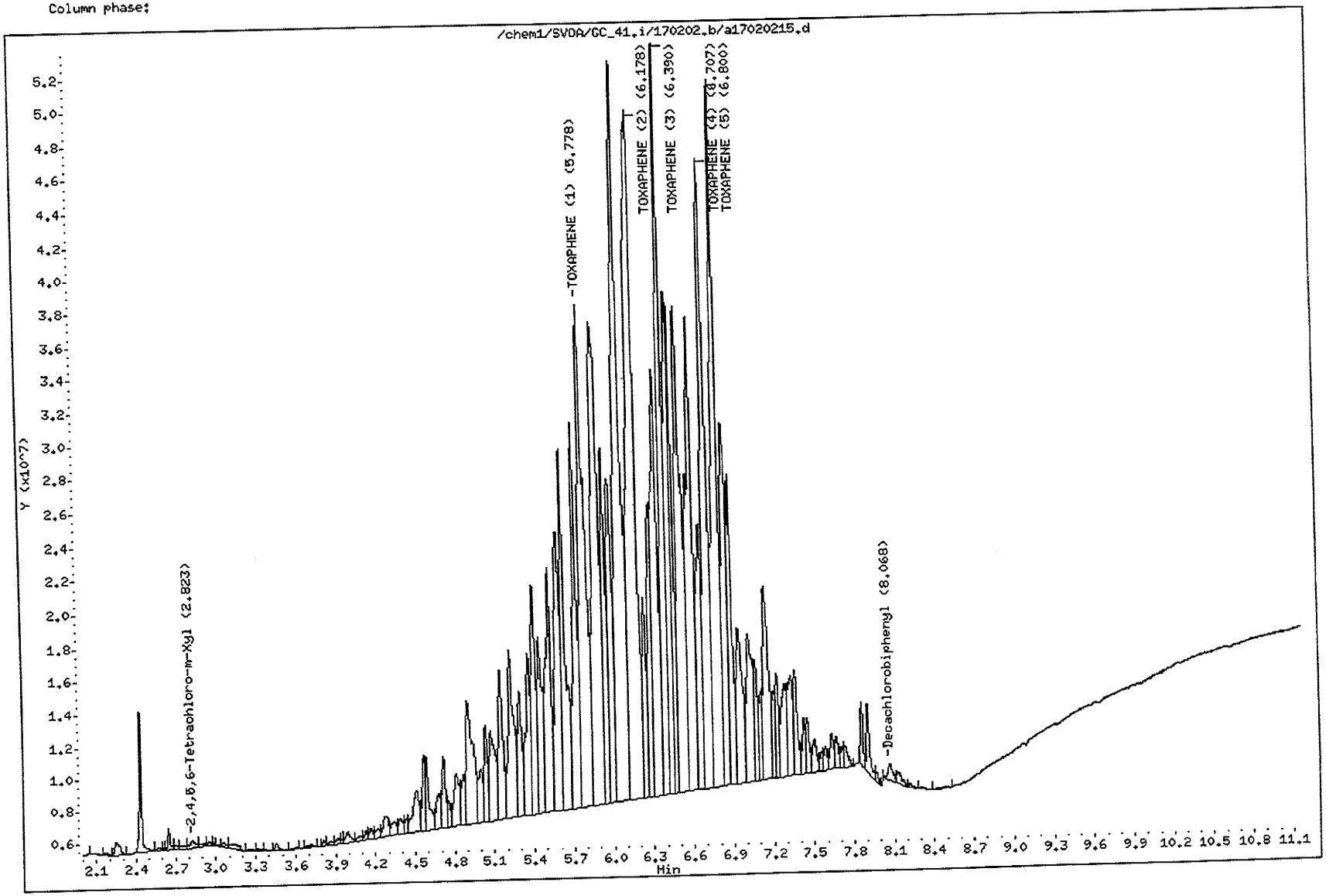
Data File: /chem1/SVOA/GC_41.i/170202.b/a17020215.d
Date : 02-FEB-2017 13:48
Client ID:
Sample Info: TOX-ICAL2 P091716Y 500PPB

Instrument: GC_41.i

Operator: 669
Column diameter: 2.00

Column phase:



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Report Date: 03-Feb-2017 09:33

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170202.b/a17020216.d
Lab Smp Id:
Inj Date : 02-FEB-2017 14:04
Operator : 669 Inst ID: GC_41.i
Smp Info : TOX-ICAL3 P091716Z 1000PPB
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170202.b/a8081d.m
Meth Date : 02-Feb-2017 16:50 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 15:34 Cal File: a17020222.d
Als bottle: 16 Calibration Sample, Level: 3
Dil Factor: 1.00000 Compound Sublist: toxaphene.sub
Integrator: HP Genie
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
M 38 Toxaphene				25948599375	1000.00	1112.402
39 TOXAPHENE (1)	5.778	5.778	0.000	4456326602	1000.00	1108.440
40 TOXAPHENE (2)	6.179	6.178	0.001	7809990967	1000.00	1108.711
41 TOXAPHENE (3)	6.389	6.390	-0.001	4159308037	1000.00	1116.528
42 TOXAPHENE (4)	6.707	6.707	0.000	4412328694	1000.00	1110.738
43 TOXAPHENE (5)	6.800	6.800	0.000	5110645074	1000.00	1119.668

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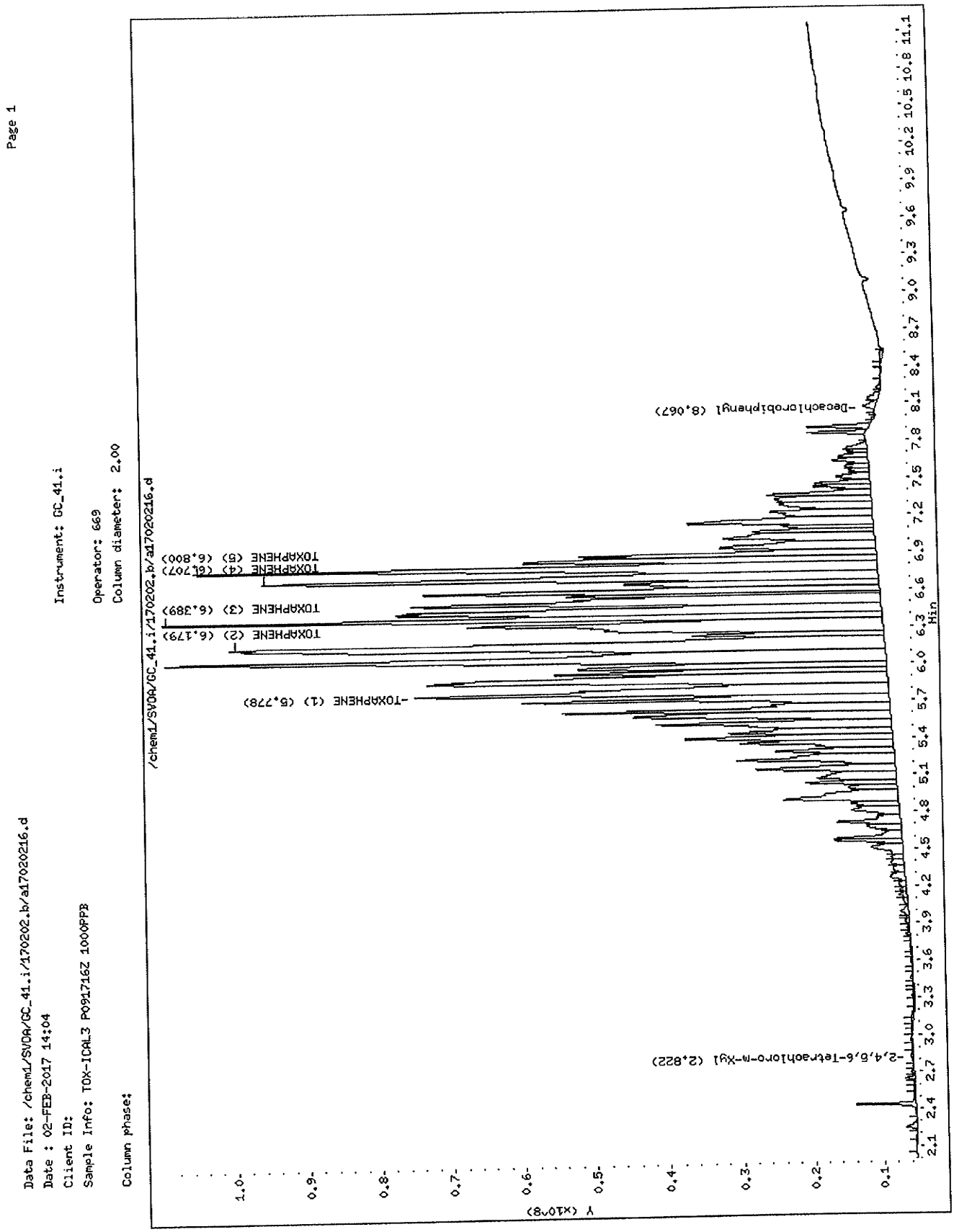

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Report Date: 03-Feb-2017 09:33

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170202.b/a17020217.d
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Inj Date : 02-FEB-2017 14:19
Operator : 669 Inst ID: GC_41.i
Smp Info : TOX-ICAL4 P091716AA 1500PPB
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170202.b/a8081d.m
Meth Date : 02-Feb-2017 16:50 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 15:49 Cal File: a17020223.d
Als bottle: 17 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: toxaphene.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
M 38 Toxaphene				33110002748	1500.00	1419.407
39 TOXAPHENE (1)	5.778	5.778	0.000	5767232586	1500.00	1434.507
40 TOXAPHENE (2)	6.179	6.179	0.000	10015014103	1500.00	1421.738
41 TOXAPHENE (3)	6.389	6.389	0.000	5173457271	1500.00	1388.767
42 TOXAPHENE (4)	6.707	6.707	0.000	5706037445	1500.00	1436.410
43 TOXAPHENE (5)	6.800	6.800	0.000	6448261342	1500.00	1412.720

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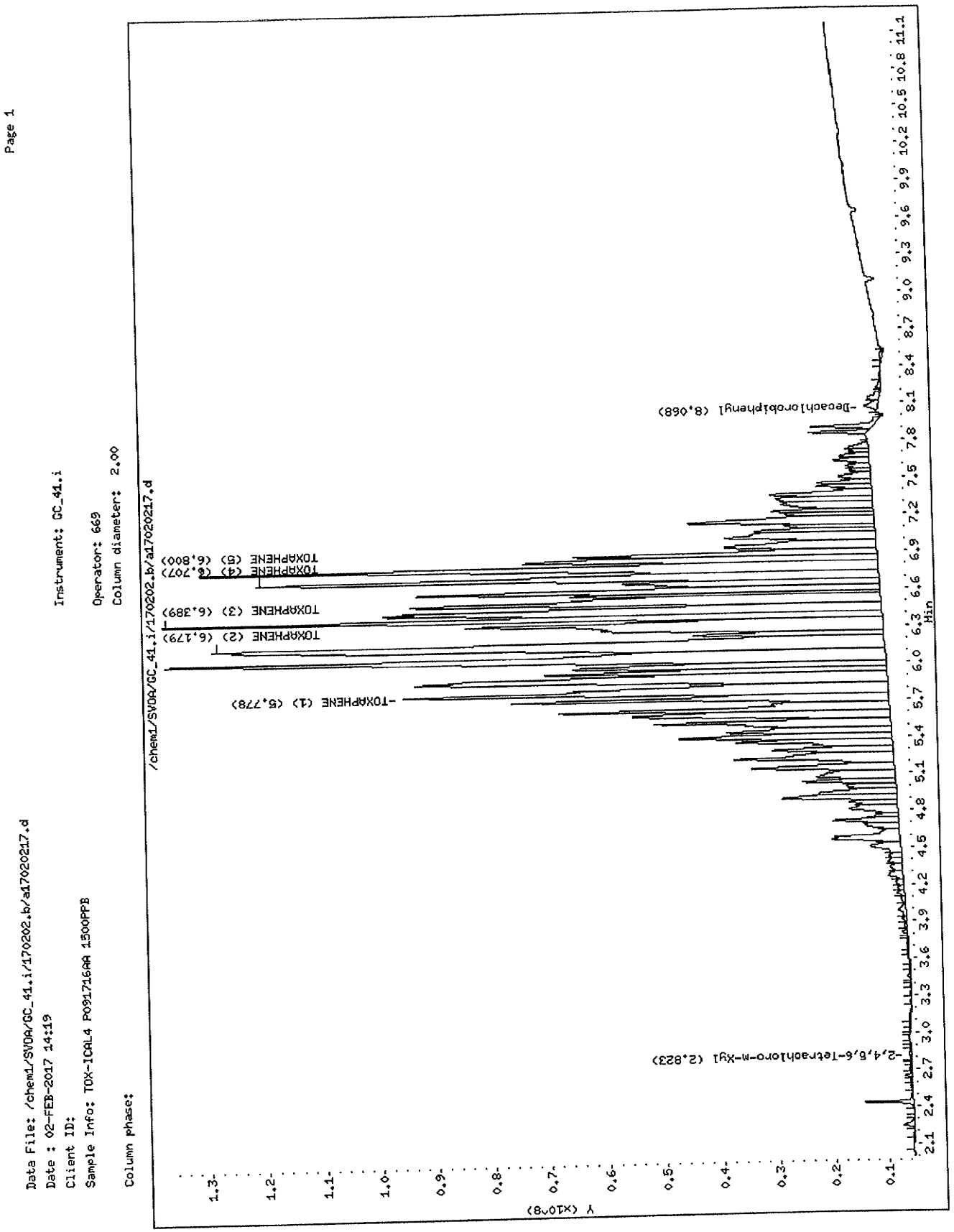

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Data File: /chem1/SVOA/GC_41.i/170202.b/a17020218.d
Report Date: 03-Feb-2017 09:33

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170202.b/a17020218.d
Lab Smp Id:
Inj Date : 02-FEB-2017 14:34 Inst ID: GC_41.i
Operator : 669
Smp Info : TOX-ICAL5 P091716BB 4000PPB
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170202.b/a8081d.m
Meth Date : 02-Feb-2017 16:50 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: a17020224.d
Als bottle: 18 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: toxaphene.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)
M 38 Toxaphene				93872646460	4000.00	4024.269(A)
39 TOXAPHENE (1)	5.778	5.778	0.000	16026299414	4000.00	3986.287
40 TOXAPHENE (2)	6.177	6.179	-0.002	28225391124	4000.00	4006.895(A)
41 TOXAPHENE (3)	6.389	6.389	0.000	15200386422	4000.00	4080.406(A)
42 TOXAPHENE (4)	6.706	6.707	-0.001	16116248438	4000.00	4057.025(A)
43 TOXAPHENE (5)	6.799	6.800	-0.001	18304321062	4000.00	4010.211(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

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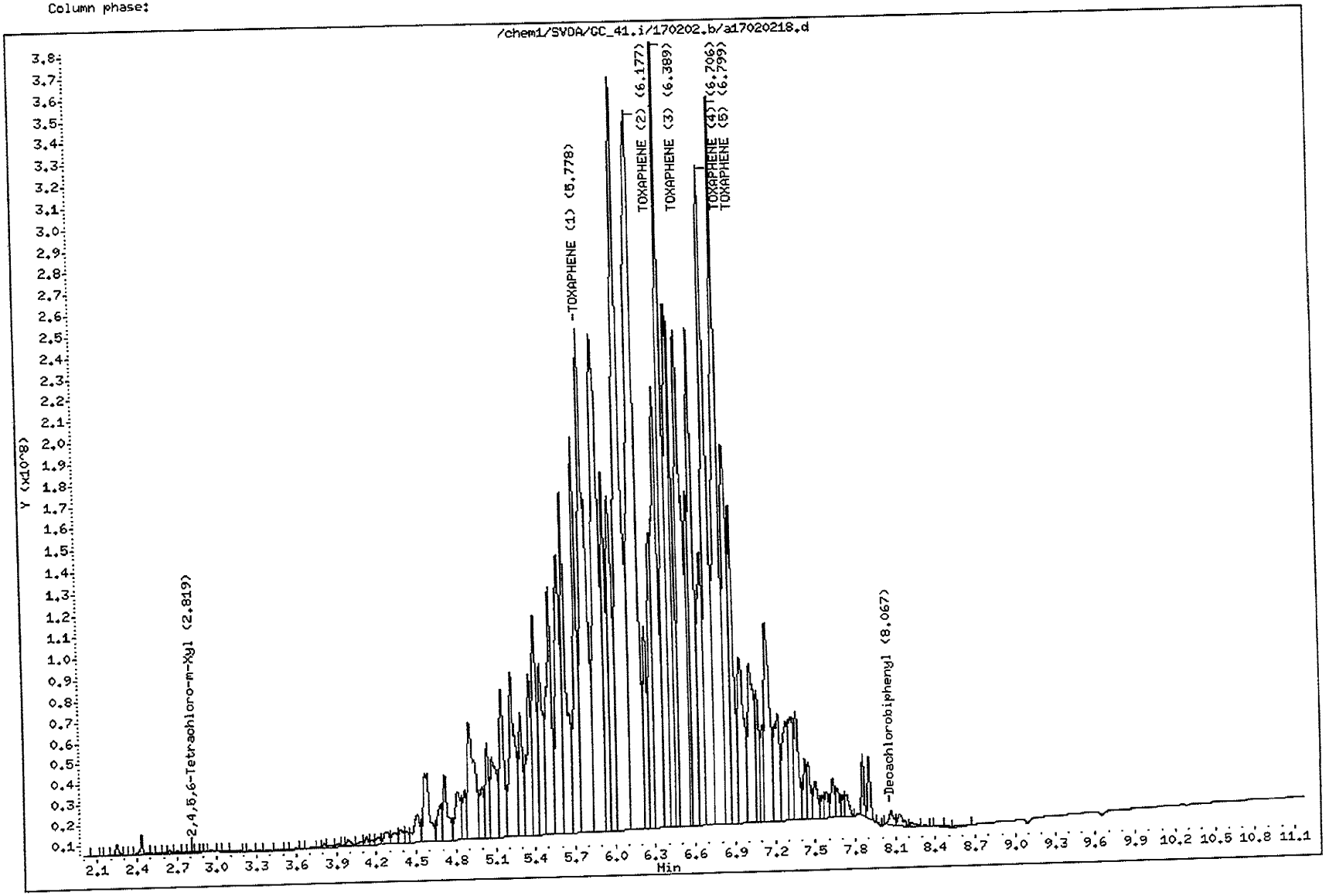
Data File: /chem1/SVOA/GC_41.i/170202.b/a17020218.d
Date : 02-FEB-2017 14:34
Client ID:
Sample Info: TOX-ICAL5 P091716BB 4000PPB

Instrument: GC_41.i

Operator: 669
Column diameter: 2.00

Column phase:



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Data File: /chem1/SVOA/GC_41.i/170202.b/a17020219.d
Report Date: 03-Feb-2017 09:33

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170202.b/a17020219.d
Lab Smp Id:
Inj Date : 02-FEB-2017 14:49 Inst ID: GC_41.i
Operator : 669
Smp Info : TOX-ICV P091716DD 1000PPB
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170202.b/a8081d.m
Meth Date : 02-Feb-2017 16:50 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: a17020224.d
Als bottle: 19 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: toxaphene.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
M 38 Toxaphene				23114421585	1000.00	990.902
39 TOXAPHENE (1)	5.777	5.778	-0.001	3990258018	1000.00	992.513
40 TOXAPHENE (2)	6.176	6.177	-0.001	6984220631	1000.00	991.484
41 TOXAPHENE (3)	6.388	6.389	-0.001	3679972925	1000.00	987.855
42 TOXAPHENE (4)	6.706	6.706	0.000	3958895537	1000.00	996.593
43 TOXAPHENE (5)	6.799	6.799	0.000	4501074474	1000.00	986.120

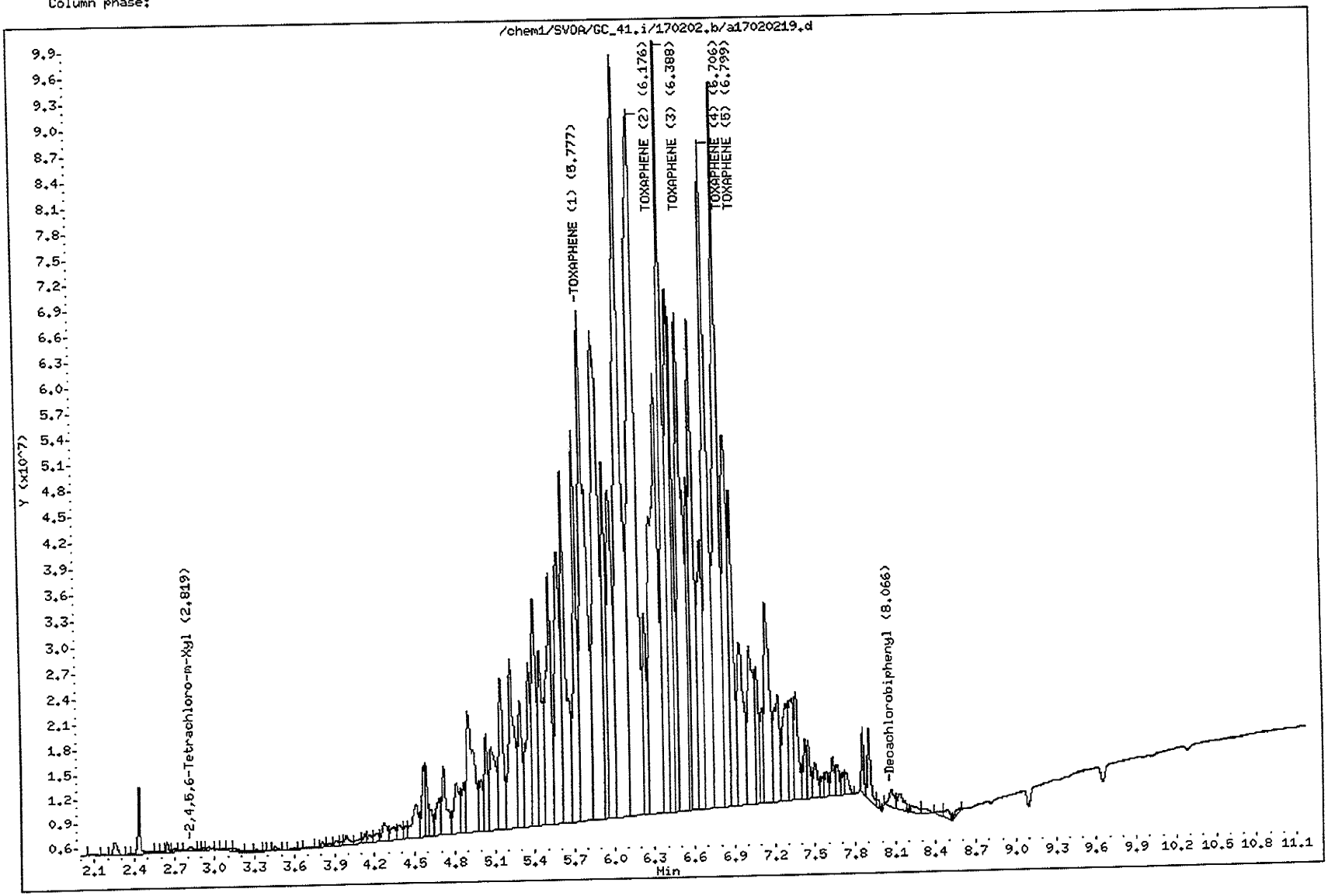
Return to Contents

Data File: /chem1/SVOA/GC_41.i/170202.b/a17020219.d
Date : 02-FEB-2017 14:49
Client ID:
Sample Info: TOX-ICV P091716DD 1000PPB

Instrument: GC_41.i

Operator: 669
Column diameter: 2.00

Column phase:



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Report Date : 03-Feb-2017 10:09

Eurofins Calscience

INITIAL CALIBRATION DATA

Start Cal Date : 03-AUG-2016 11:20
End Cal Date : 02-FEB-2017 16:04
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem1/SVOA/GC_41.i/170202.b/b8081d.m
Cal Date : 03-Feb-2017 10:09 uj3k
Curve Type : Average

Calibration File Names:
Level 1: /chem1/SVOA/GC_41.i/170202.b/b17020220.d
Level 2: /chem1/SVOA/GC_41.i/170202.b/b17020221.d
Level 3: /chem1/SVOA/GC_41.i/170202.b/b17020222.d
Level 4: /chem1/SVOA/GC_41.i/170202.b/b17020223.d
Level 5: /chem1/SVOA/GC_41.i/170202.b/b17020224.d

Compound	10.000 Level 1	20.000 Level 2	40.000 Level 3	60.000 Level 4	80.000 Level 5	RRF	% RSD
2 Hexachlorobenzene	119632767	117173349	121547055	124327861	122515376	121039282	2
3 Alpha-BHC	157263457	160100300	170939922	177305862	176207516	168363412	5
4 Gamma-BHC	143466918	143529395	152195655	158043362	156147862	150676639	5
5 Beta-BHC	60235362	58787242	61060268	62767477	61506938	60871458	2
6 Delta-BHC	137093632	138233028	148294812	154569292	152442825	146126718	6
7 Heptachlor	144887475	142547206	149576866	153873915	149778917	148132876	3
8 Aldrin	130177029	130495983	138514944	142733397	139762545	136336780	4
9 4,4'-Dichlorobenzophenone	21286335	20343889	19845939	19469841	19857661	20160733	3
10 Oxychlordane	109300656	110114532	109126761	108588617	109902016	109406516	1
11 Heptachlor Epoxide	115373697	111462817	118138635	122205763	119620219	117360226	4
12 2,4'-DDE	73398415	74146992	73834024	73052610	73943153	73675039	1
13 Gamma Chlordane	120026569	116754054	124990611	130711899	127529919	124002610	5
14 Trans-Nonachlor	117918040	119658755	119568783	118806138	121310116	119452366	1
15 Alpha Chlordane	116256012	112351553	119837592	125094611	122020360	119112025	4
16 Endosulfan I	105297926	99757101	104796648	108714311	105312515	104775700	3
17 4,4'-DDE	114626171	110413793	118464450	124725199	121339569	117913836	5
18 Dieldrin	114711580	110141440	118595466	124201441	120651305	117660246	5
19 2,4'-DDD	63889574	64847203	64980833	63522492	64693738	64386768	1
20 Endrin	97820582	92132620	96125014	101341948	96883170	96860667	3
21 2,4'-DDT	71485547	72011282	72787027	72651518	74250051	72637085	1
22 Cis-Nonachlor	122615697	123782018	123871035	120577382	125738231	123316873	2
23 4,4'-DDD	101888546	95335333	100879553	105032406	100145364	100656240	3

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Report Date : 03-Feb-2017 10:09

Eurofins Calscience

INITIAL CALIBRATION DATA

Start Cal Date : 03-AUG-2016 11:20
End Cal Date : 02-FEB-2017 16:04
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem1/SVOA/GC_41.i/170202.b/b8081d.m
Cal Date : 03-Feb-2017 10:09 uj3k
Curve Type : Average

	Compound	10.000 Level 1	20.000 Level 2	40.000 Level 3	60.000 Level 4	80.000 Level 5	RRF	% RSD
	24 Endosulfan II	90114746	83617933	85066444	89013100	85176797	86597804	3
	25 4,4'-DDT	97201368	90451839	98017607	104343867	100383375	98079611	5
	26 Endrin Aldehyde	90762561	82786985	88195941	93248240	89882587	88975263	4
	27 Endosulfan Sulfate	106269312	88689381	93535130	99617740	95776575	96777627	7
	28 Mirex	82887525	79153690	74058068	71909167	73378661	76277422	6
	29 Methoxychlor	61979437	51618458	52035328	55901628	51877450	54682460	8
	30 Endrin Ketone	118086012	106467977	112946465	121841473	115387586	114945903	5
M	32 Chlordane	47203699	49077810	60481058	52449398	56479402	53138273	10
	33 CHLD (1)	4676846	4772215	6094154	5299310	6012112	5370928	12
	34 CHLD (2)	4368246	4293626	5152885	4464507	4549799	4565813	7
	35 CHLD (3)	14235011	15434612	18494420	16043131	17698784	16381192	10
	36 CHLD (4)	11891142	12253616	15352968	13314966	14149998	13392538	11
	37 CHLD (5)	12032453	12323741	15386631	13327483	14068708	13427803	10
M	38 Toxaphene	18236462	18728654	20637721	18187176	18256149	18809233	6
	39 TOXAPHENE (1)	2363366	2490444	2701824	2311755	2370510	2447580	6
	40 TOXAPHENE (2)	3072547	3274123	3576629	3062699	3176526	3232505	7
	41 TOXAPHENE (3)	6211053	5967143	6594635	6213916	5820697	6161489	5
	42 TOXAPHENE (4)	3454624	3700137	4085091	3483195	3620381	3668686	7
	43 TOXAPHENE (5)	3134872	3296807	3679542	3115610	3268035	3298973	7
$	1 2,4,5,6-Tetrachloro-m-Xylene	98478290	95398185	98874124	100930254	99131056	98562382	2
$	31 Decachlorobiphenyl	96754490	87029770	93193771	100781898	95553537	94662693	5

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Data File: /chem1/SVOA/GC_41.i/170202.b/b17020207.d
Report Date: 02/03/2017 09:40

Eurofins CalScience
Calibration Verification Report

Instrument ID: GC_41.i
Sample Name: P-ICV P091716L 40PPB
Sublist used: PEST.sub
Method used: /chem1/SVOA/GC_41.i/170202.b/b8081d.m

Injection Date and Time: 02-FEB-2017 11:48
Initial Calibration Date(s): 03-AUG-2016 02-FEB-2017
Initial Calibration Time(s): 11:20 16:04

Target Compounds	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D /Drift	Curve Type
Hexachlorobenzene	121039281.509	114717049.911	0.00	5	15	Averaged
Alpha-BHC	168363411.517	166023982.966	0.00	1	15	Averaged
Gamma-BHC	150676638.658	133636792.701	0.00	11	15	Averaged
Beta-BHC	60871457.585	58822788.763	0.00	3	15	Averaged
Delta-BHC	146126717.737	146907692.629	0.00	-1	15	Averaged
Heptachlor	148132875.736	142316498.840	0.00	4	15	Averaged
Aldrin	136336779.560	141327258.307	0.00	-4	15	Averaged
Heptachlor Epoxide	117360226.284	123764466.119	0.00	-5	15	Averaged
Gamma Chlordane	124002610.334	128489857.433	0.00	-4	15	Averaged
Alpha Chlordane	119112025.388	120852176.228	0.00	-1	15	Averaged
4,4'-DDE	117913836.141	118927505.388	0.00	-1	15	Averaged
Endosulfan I	104775700.255	110180329.252	0.00	-5	15	Averaged
Dieldrin	117660246.461	127436534.851	0.00	-8	15	Averaged
Endrin	96860666.867	94542641.044	0.00	2	15	Averaged
4,4'-DDD	100656240.271	98307498.677	0.00	2	15	Averaged
Endosulfan II	86597804.012	95718659.683	0.00	-11	15	Averaged
4,4'-DDT	98079611.041	100414412.700	0.00	-2	15	Averaged
Endrin Aldehyde	88975262.906	86968151.357	0.00	2	15	Averaged
Methoxychlor	54682460.163	51276328.703	0.00	6	15	Averaged
Endosulfan Sulfate	96777627.454	97353486.986	0.00	-1	15	Averaged
Endrin Ketone	114945902.551	120117552.964	0.00	-4	15	Averaged

Surrogate Standards	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D /Drift	Curve Type
2,4,5,6-Tetrachloro-m-Xylene	98562381.558	98673118.323	0.00	0	15	Averaged
Decachlorobiphenyl	94662693.353	95468524.225	0.00	-1	15	Averaged

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Data File: /chem1/SVOA/GC_41.i/170202.b/b17020202.d
Report Date: 03-Feb-2017 09:37

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170202.b/b17020202.d
Lab Smp Id:
Inj Date : 02-FEB-2017 10:33 Inst ID: GC_41.i
Operator : 669
Smp Info : P-ICAL1 P091716E 10PPB
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170202.b/b8081d.m
Meth Date : 02-Feb-2017 16:53 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 15:04 Cal File: b17020220.d
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PEST.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
$	1 2,4,5,6-Tetrachloro-m-Xylene	2.735	2.736	-0.001	1969565799	20.0000	19.982
	2 Hexachlorobenzene	3.122	3.123	-0.001	1196327673	10.0000	9.883(a)
	3 Alpha-BHC	3.240	3.241	-0.001	1572634573	10.0000	9.340(a)
	4 Gamma-BHC	3.562	3.563	-0.001	1434669180	10.0000	9.521(a)
	5 Beta-BHC	3.630	3.631	-0.001	602353622	10.0000	9.895(a)
	6 Delta-BHC	3.917	3.919	-0.002	1370936319	10.0000	9.381(a)
	7 Heptachlor	3.989	3.991	-0.002	1448874750	10.0000	9.780(a)
	8 Aldrin	4.321	4.322	-0.001	1301770293	10.0000	9.548(a)
	11 Heptachlor Epoxide	4.903	4.904	-0.001	1153736974	10.0000	9.830(a)
	13 Gamma Chlordane	5.092	5.093	-0.001	1200265694	10.0000	9.679(a)
	15 Alpha Chlordane	5.240	5.240	0.000	1162560119	10.0000	9.760(a)
	16 Endosulfan I	5.301	5.302	-0.001	1052979263	10.0000	10.049
	17 4,4'-DDE	5.402	5.403	-0.001	1146261707	10.0000	9.721(a)
	18 Dieldrin	5.573	5.574	-0.001	1147115797	10.0000	9.749(a)
	20 Endrin	5.875	5.875	0.000	978205820	10.0000	10.099
	23 4,4'-DDD	5.974	5.974	0.000	1018885458	10.0000	10.122
	24 Endosulfan II	6.080	6.081	-0.001	901147463	10.0000	10.406
	25 4,4'-DDT	6.277	6.278	-0.001	972013676	10.0000	9.910(a)
	26 Endrin Aldehyde	6.406	6.407	-0.001	907625609	10.0000	10.200
	27 Endosulfan Sulfate	6.670	6.670	0.000	1062693120	10.0000	10.980
	29 Methoxychlor	6.931	6.932	-0.001	619794365	10.0000	11.334

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Data File: /chem1/SVOA/GC_41.i/170202.b/b17020202.d
Report Date: 03-Feb-2017 09:37

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
30 Endrin Ketone	7.177	7.177	0.000	1180860116	10.0000	10.273
$ 31 Decachlorobiphenyl	8.292	8.292	0.000	1935089794	20.0000	20.441

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

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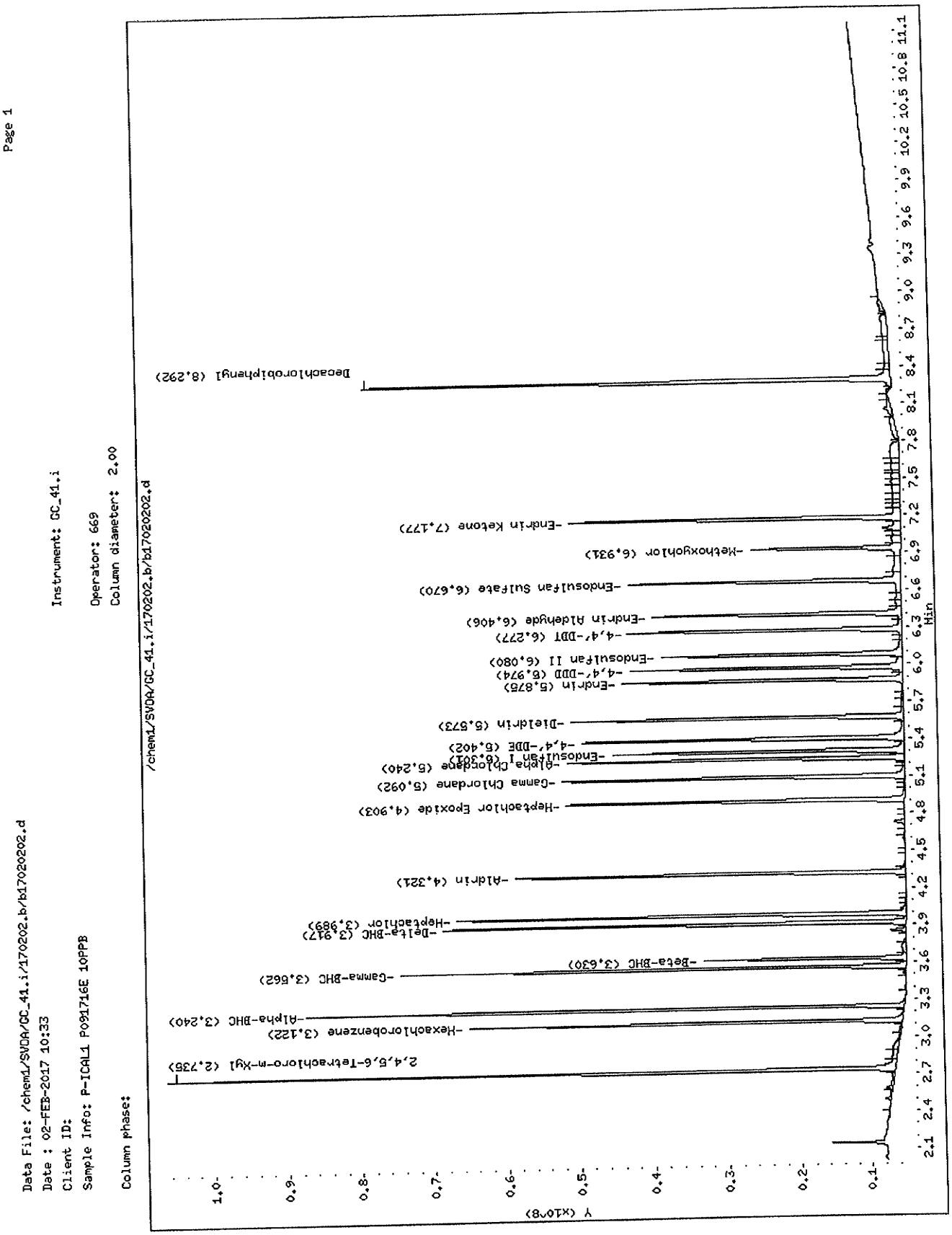

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Data File: /chem1/SVOA/GC_41.i/170202.b/b17020203.d
Report Date: 03-Feb-2017 09:37

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170202.b/b17020203.d
Lab Smp Id:
Inj Date : 02-FEB-2017 10:48 Inst ID: GC_41.i
Operator : 669
Smp Info : P-ICAL2 P091716F 20PPB
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170202.b/b8081d.m
Meth Date : 02-Feb-2017 16:53 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 15:19 Cal File: b17020221.d
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000 Compound Sublist: PEST.sub
Integrator: HP Genie
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
$	1 2,4,5,6-Tetrachloro-m-Xylene	2.736	2.735	0.001	3815927384	40.0000	38.715
	2 Hexachlorobenzene	3.123	3.122	0.001	2343466984	20.0000	19.361
	3 Alpha-BHC	3.241	3.240	0.001	3202006009	20.0000	19.018
	4 Gamma-BHC	3.563	3.562	0.001	2870587910	20.0000	19.051
	5 Beta-BHC	3.631	3.630	0.001	1175744846	20.0000	19.315
	6 Delta-BHC	3.919	3.917	0.002	2764660553	20.0000	18.919
	7 Heptachlor	3.991	3.989	0.002	2850944114	20.0000	19.245
	8 Aldrin	4.322	4.321	0.001	2609919659	20.0000	19.143
	11 Heptachlor Epoxide	4.904	4.903	0.001	2229256344	20.0000	18.994
	13 Gamma Chlordane	5.093	5.092	0.001	2335081081	20.0000	18.830
	15 Alpha Chlordane	5.241	5.240	0.001	2247031052	20.0000	18.864
	16 Endosulfan I	5.302	5.301	0.001	1995142016	20.0000	19.042
	17 4,4'-DDE	5.403	5.402	0.001	2208275851	20.0000	18.727
	18 Dieldrin	5.574	5.573	0.001	2202828806	20.0000	18.721
	20 Endrin	5.875	5.875	0.000	1842652405	20.0000	19.023
	23 4,4'-DDD	5.974	5.974	0.000	1906706656	20.0000	18.942
	24 Endosulfan II	6.081	6.080	0.001	1672358663	20.0000	19.311
	25 4,4'-DDT	6.278	6.277	0.001	1809036789	20.0000	18.444
	26 Endrin Aldehyde	6.407	6.406	0.001	1655739700	20.0000	18.608
	27 Endosulfan Sulfate	6.671	6.670	0.001	1773787619	20.0000	18.328
	29 Methoxychlor	6.932	6.931	0.001	1032369154	20.0000	18.879

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Data File: /chem1/SVOA/GC_41.i/170202.b/b17020203.d
Report Date: 03-Feb-2017 09:37

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
30 Endrin Ketone	7.178	7.177	0.001	2129359543	20.0000	18.524
$ 31 Decachlorobiphenyl	8.292	8.292	0.000	3481190799	40.0000	36.774

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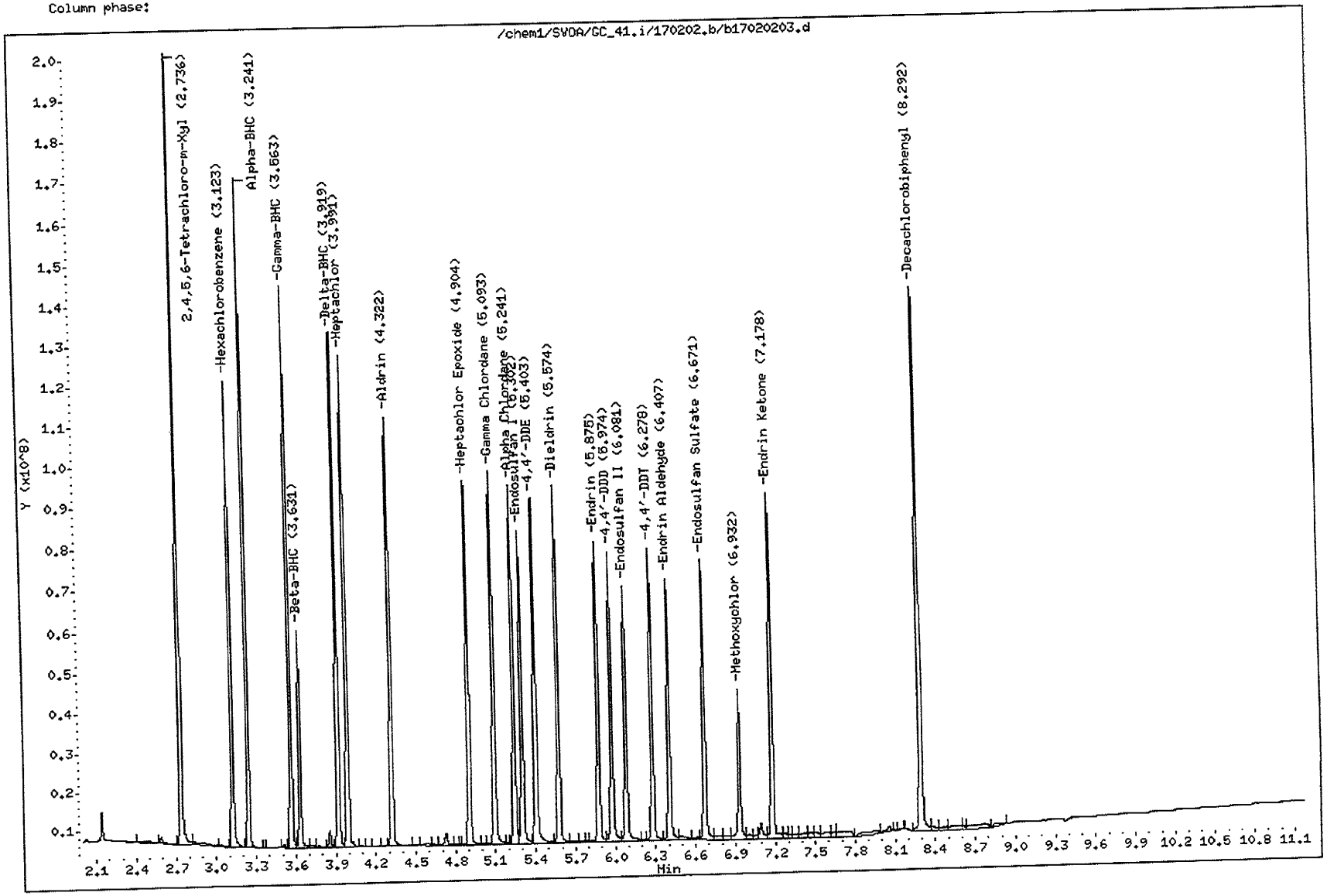
Data File: /chem1/SVOA/GC_41.i/170202.b/b17020203.d
Date : 02-FEB-2017 10:48
Client ID:
Sample Info: P-ICAL2 P091716F 20PPB

Instrument: GC_41.i

Operator: 669
Column diameter: 2.00

Column phase:



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Data File: /chem1/SVOA/GC_41.i/170202.b/b17020204.d
Report Date: 03-Feb-2017 09:37

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170202.b/b17020204.d
Lab Smp Id:
Inj Date : 02-FEB-2017 11:03 Inst ID: GC_41.i
Operator : 669
Smp Info : P-ICAL3 P091716G 40PPB
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170202.b/b8081d.m
Meth Date : 02-Feb-2017 16:53 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 15:34 Cal File: b17020222.d
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PEST.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
$	1 2,4,5,6-Tetrachloro-m-Xylene	2.736	2.736	0.000	7909929880	80.0000	80.253
	2 Hexachlorobenzene	3.123	3.123	0.000	4861882189	40.0000	40.167
	3 Alpha-BHC	3.241	3.241	0.000	6837596887	40.0000	40.612
	4 Gamma-BHC	3.563	3.563	0.000	6087826214	40.0000	40.403
	5 Beta-BHC	3.631	3.631	0.000	2442410725	40.0000	40.124
	6 Delta-BHC	3.919	3.919	0.000	5931792487	40.0000	40.593
	7 Heptachlor	3.991	3.991	0.000	5983074637	40.0000	40.389
	8 Aldrin	4.322	4.322	0.000	5540597741	40.0000	40.639
	11 Heptachlor Epoxide	4.904	4.904	0.000	4725545416	40.0000	40.265
	13 Gamma Chlordane	5.093	5.093	0.000	4999624446	40.0000	40.318
	15 Alpha Chlordane	5.240	5.241	-0.001	4793503681	40.0000	40.243
	16 Endosulfan I	5.302	5.302	0.000	4191865906	40.0000	40.007
	17 4,4'-DDE	5.403	5.403	0.000	4738577993	40.0000	40.186
	18 Dieldrin	5.574	5.574	0.000	4743818628	40.0000	40.317
	20 Endrin	5.875	5.875	0.000	3845000566	40.0000	39.696
	23 4,4'-DDD	5.974	5.974	0.000	4035182120	40.0000	40.088
	24 Endosulfan II	6.081	6.081	0.000	3402657741	40.0000	39.292
	25 4,4'-DDT	6.278	6.278	0.000	3920704270	40.0000	39.974
	26 Endrin Aldehyde	6.406	6.407	-0.001	3527837650	40.0000	39.649
	27 Endosulfan Sulfate	6.671	6.671	0.000	3741405187	40.0000	38.659
	29 Methoxychlor	6.932	6.932	0.000	2081413122	40.0000	38.063

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Data File: /chem1/SVOA/GC_41.i/170202.b/b17020204.d
Report Date: 03-Feb-2017 09:37

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
30 Endrin Ketone	7.178	7.178	0.000	4517858598	40.0000	39.304
$ 31 Decachlorobiphenyl	8.292	8.292	0.000	7455501698	80.0000	78.758

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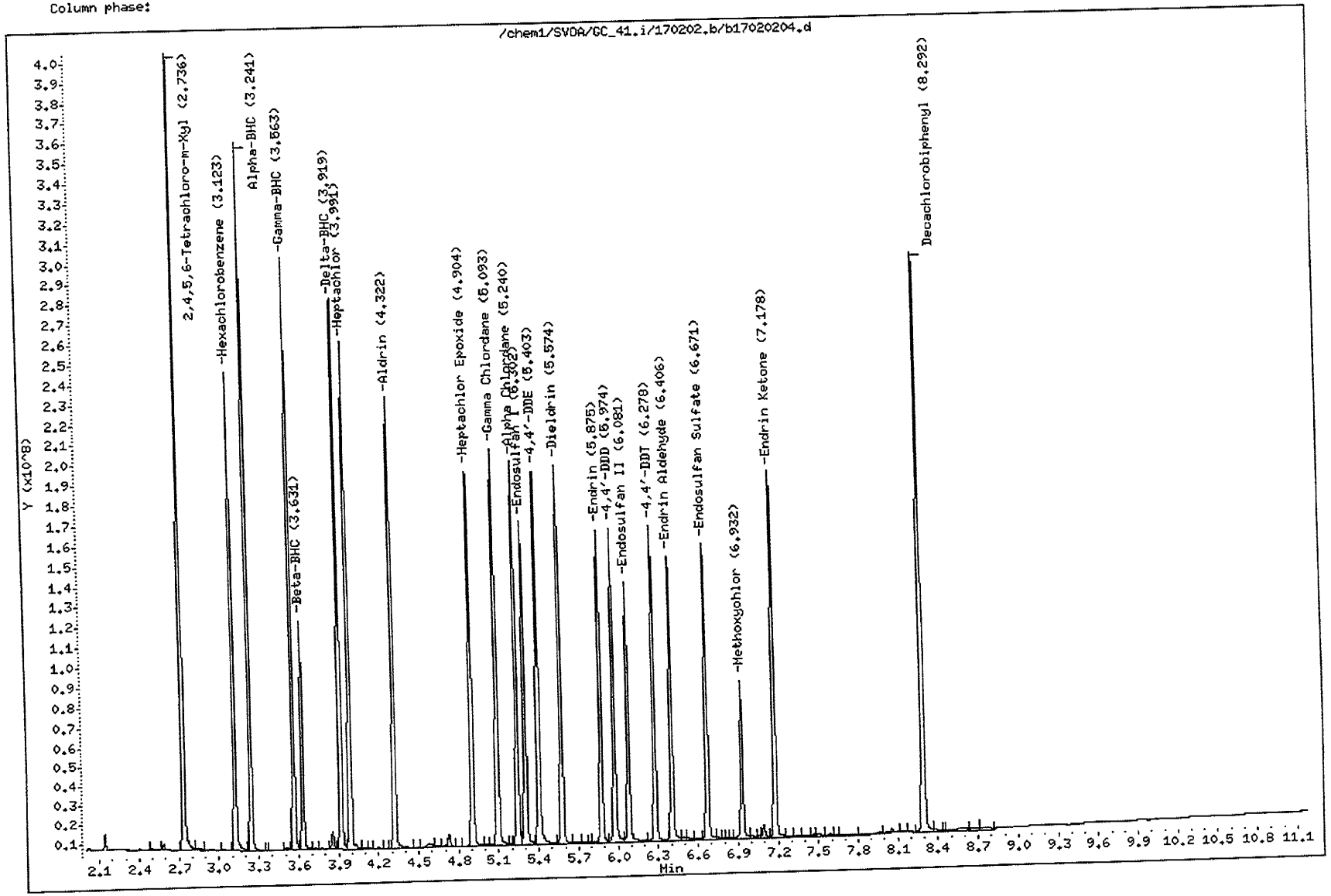
Data File: /chem1/SVOA/GC_41.i/170202.b/b17020204.d
Date : 02-FEB-2017 11:03
Client ID:
Sample Info: P-ICAL3 P091716G 40PPB

Instrument: GC_41.i

Operator: 669
Column diameter: 2.00

Column phase:



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Data File: /chem1/SVOA/GC_41.i/170202.b/b17020205.d
Report Date: 03-Feb-2017 10:08

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170202.b/b17020205.d
Lab Smp Id:
Inj Date : 02-FEB-2017 11:18 Inst ID: GC_41.i
Operator : 669
Smp Info : P-ICAL4 P091716H 60PPB
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170202.b/b8081d.m
Meth Date : 03-Feb-2017 10:08 uj3k Quant Type: ESTD
Cal Date : 02-FEB-2017 15:49 Cal File: b17020223.d
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PEST.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
$	1 2,4,5,6-Tetrachloro-m-Xylene	2.737	2.737	0.000	12111630467	120.000	122.882
	2 Hexachlorobenzene	3.123	3.123	0.000	7459671638	60.0000	61.630
	3 Alpha-BHC	3.242	3.242	0.000	10638351710	60.0000	63.186
	4 Gamma-BHC	3.564	3.564	0.000	9482601743	60.0000	62.933
	5 Beta-BHC	3.631	3.631	0.000	3766048643	60.0000	61.868
	6 Delta-BHC	3.920	3.920	0.000	9274157526	60.0000	63.466
	7 Heptachlor	3.991	3.991	0.000	9232434882	60.0000	62.325
	8 Aldrin	4.323	4.323	0.000	8564003821	60.0000	62.815
	11 Heptachlor Epoxide	4.905	4.905	0.000	7332345774	60.0000	62.477
	13 Gamma Chlordane	5.094	5.094	0.000	7842713911	60.0000	63.246
	15 Alpha Chlordane	5.241	5.241	0.000	7505676652	60.0000	63.013
	16 Endosulfan I	5.302	5.302	0.000	6522858662	60.0000	62.255
	17 4,4'-DDE	5.404	5.404	0.000	7483511929	60.0000	63.465
	18 Dieldrin	5.574	5.574	0.000	7452086489	60.0000	63.335
	20 Endrin	5.875	5.875	0.000	6080516893	60.0000	62.775
	23 4,4'-DDD	5.975	5.975	0.000	6301944368	60.0000	62.608
	24 Endosulfan II	6.081	6.081	0.000	5340786022	60.0000	61.673
	25 4,4'-DDT	6.279	6.279	0.000	6260632006	60.0000	63.832
	26 Endrin Aldehyde	6.407	6.407	0.000	5594894430	60.0000	62.881
	27 Endosulfan Sulfate	6.671	6.671	0.000	5977064395	60.0000	61.760
	29 Methoxychlor	6.932	6.932	0.000	3354097706	60.0000	61.337

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Data File: /chem1/SVOA/GC_41.i/170202.b/b17020205.d
Report Date: 03-Feb-2017 10:08

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
30 Endrin Ketone	7.178	7.178	0.000	7310488375	60.0000	63.599
$ 31 Decachlorobiphenyl	8.293	8.293	0.000	12093827815	120.000	127.757

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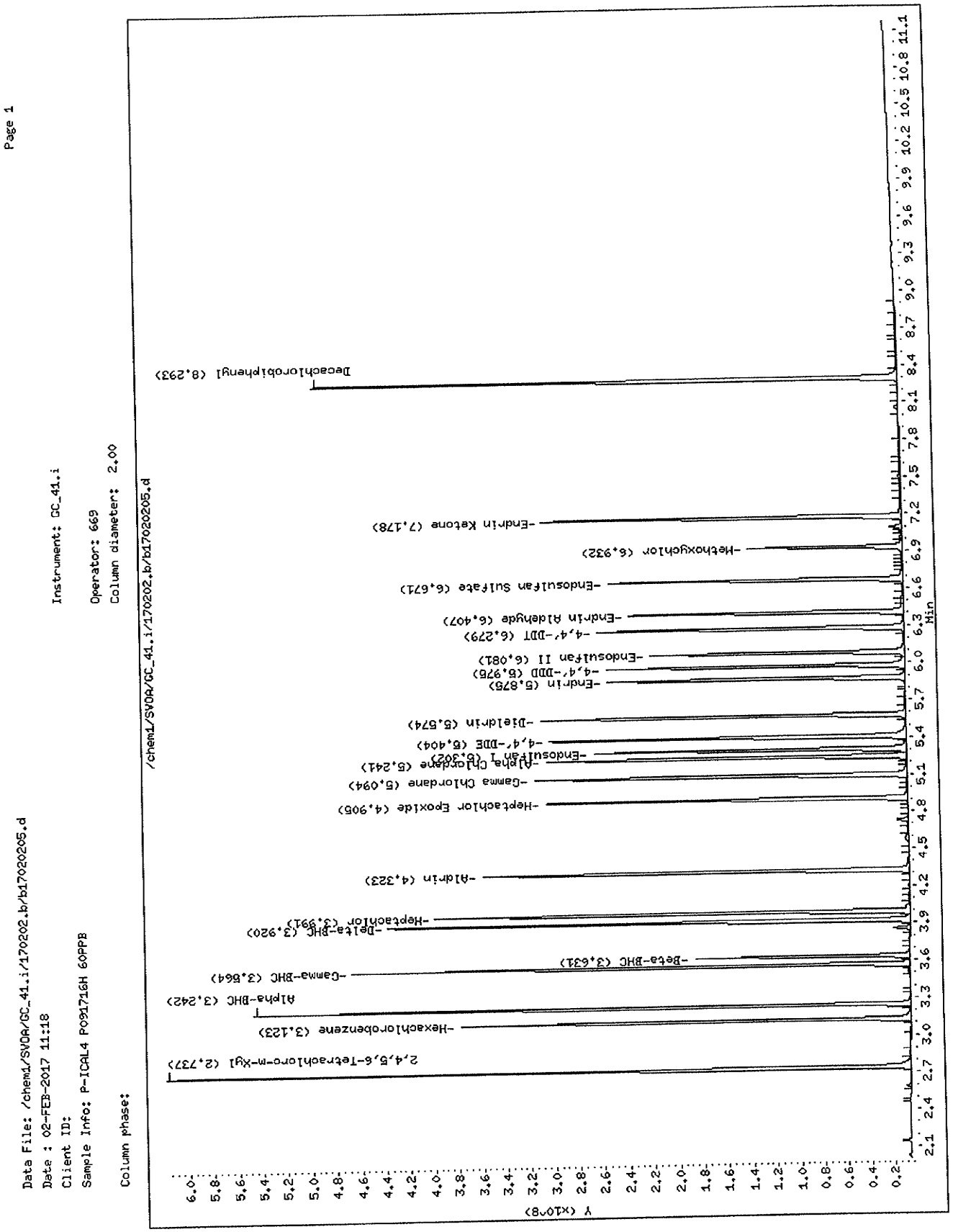

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Data File: /chem1/SVOA/GC_41.i/170202.b/b17020206.d
Report Date: 03-Feb-2017 09:37

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170202.b/b17020206.d
Lab Smp Id:
Inj Date : 02-FEB-2017 11:33
Operator : 669 Inst ID: GC_41.i
Smp Info : P-ICAL5 P091716J 80PPB
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170202.b/b8081d.m
Meth Date : 02-Feb-2017 16:53 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: b17020224.d
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PEST.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
$ 1 2,4,5,6-Tetrachloro-m-Xylene	2.737	2.737	0.000	15860968934	160.000	160.923
2 Hexachlorobenzene	3.124	3.123	0.001	9801230053	80.0000	80.975
3 Alpha-BHC	3.242	3.242	0.000	14096601266	80.0000	83.727
4 Gamma-BHC	3.564	3.564	0.000	12491828965	80.0000	82.904
5 Beta-BHC	3.632	3.631	0.001	4920555033	80.0000	80.835
6 Delta-BHC	3.920	3.920	0.000	12195425990	80.0000	83.457
7 Heptachlor	3.991	3.991	0.000	11982313389	80.0000	80.888
8 Aldrin	4.323	4.323	0.000	11181003603	80.0000	82.010
11 Heptachlor Epoxide	4.905	4.905	0.000	9569617481	80.0000	81.540
13 Gamma Chlordane	5.094	5.094	0.000	10202393485	80.0000	82.275
15 Alpha Chlordane	5.241	5.241	0.000	9761628766	80.0000	81.953
16 Endosulfan I	5.303	5.302	0.001	8425001239	80.0000	80.409
17 4,4'-DDE	5.404	5.404	0.000	9707165504	80.0000	82.324
18 Dieldrin	5.574	5.574	0.000	9652104412	80.0000	82.033
20 Endrin	5.876	5.875	0.001	7750653577	80.0000	80.018
23 4,4'-DDD	5.975	5.975	0.000	8011629089	80.0000	79.593
24 Endosulfan II	6.081	6.081	0.000	6814143738	80.0000	78.687
25 4,4'-DDT	6.279	6.279	0.000	8030669971	80.0000	81.879
26 Endrin Aldehyde	6.407	6.407	0.000	7190606951	80.0000	80.815
27 Endosulfan Sulfate	6.671	6.671	0.000	7662125979	80.0000	79.172
29 Methoxychlor	6.933	6.932	0.001	4150196009	80.0000	75.896

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Data File: /chem1/SVOA/GC_41.i/170202.b/b17020206.d
Report Date: 03-Feb-2017 09:37

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
30 Endrin Ketone	7.178	7.178	0.000	9231006892	80.0000	80.307
$ 31 Decachlorobiphenyl	8.293	8.293	0.000	15288565984	160.000	161.505

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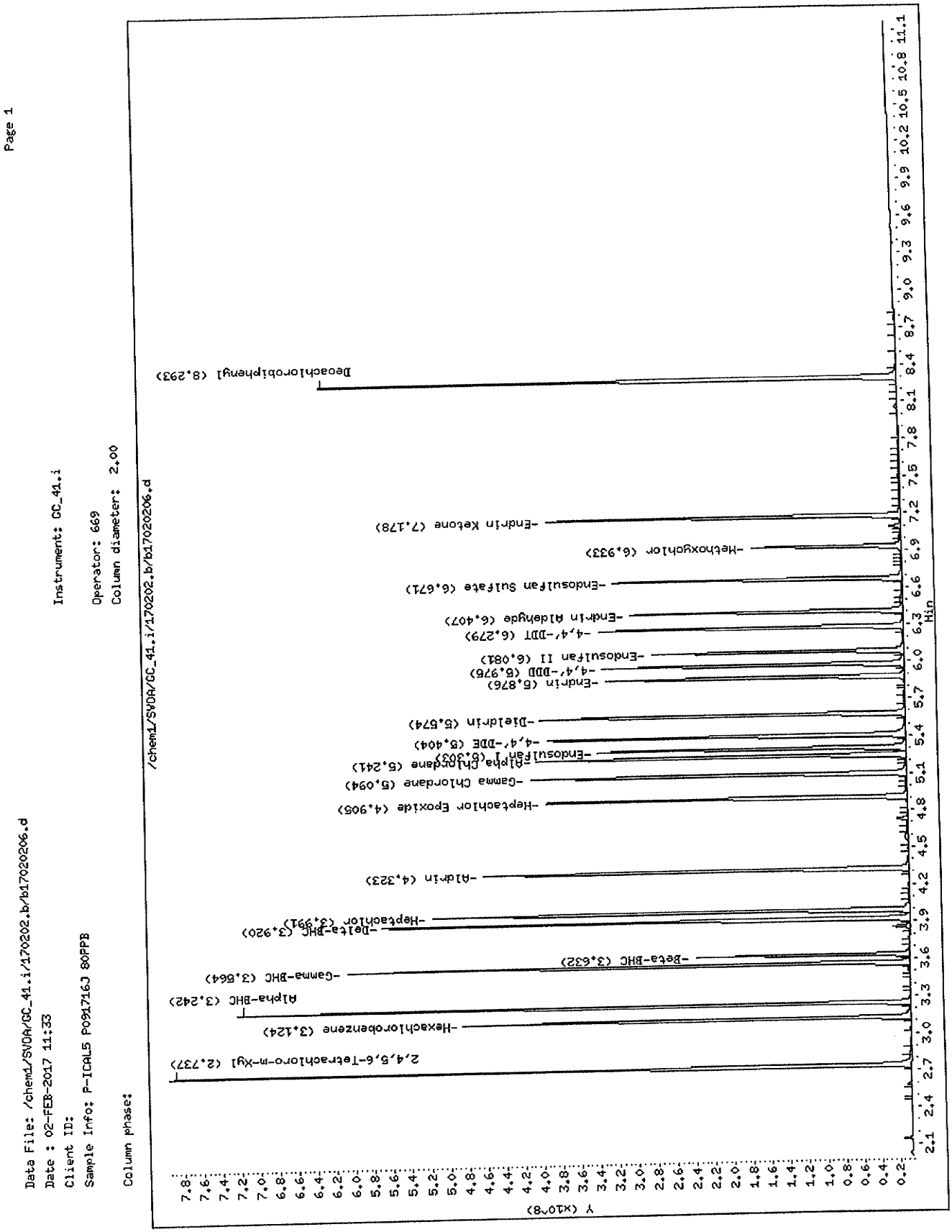

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Data File: /chem1/SVOA/GC_41.i/170202.b/b17020207.d
Report Date: 03-Feb-2017 09:37

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170202.b/b17020207.d
Lab Smp Id:
Inj Date : 02-FEB-2017 11:48 Inst ID: GC_41.i
Operator : 669
Smp Info : P-ICV P091716L 40PPB
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170202.b/b8081d.m
Meth Date : 02-Feb-2017 16:53 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: b17020224.d
Als bottle: 7 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PEST.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
$ 1 2,4,5,6-Tetrachloro-m-Xylene	2.736	2.737	-0.001	7893849466	80.0000	80.089
2 Hexachlorobenzene	3.123	3.124	-0.001	4588681996	40.0000	37.910
3 Alpha-BHC	3.241	3.242	-0.001	6640959319	40.0000	39.444
4 Gamma-BHC	3.563	3.564	-0.001	5345471708	40.0000	35.476
5 Beta-BHC	3.631	3.632	-0.001	2352911551	40.0000	38.653
6 Delta-BHC	3.919	3.920	-0.001	5876307705	40.0000	40.213
7 Heptachlor	3.991	3.991	0.000	5692659954	40.0000	38.429
8 Aldrin	4.322	4.323	-0.001	5653090332	40.0000	41.464
11 Heptachlor Epoxide	4.904	4.905	-0.001	4950578645	40.0000	42.182
13 Gamma Chlordane	5.093	5.094	-0.001	5139594297	40.0000	41.447
15 Alpha Chlordane	5.240	5.241	-0.001	4834087049	40.0000	40.584
16 Endosulfan I	5.302	5.303	-0.001	4407213170	40.0000	42.063
17 4,4'-DDE	5.403	5.404	-0.001	4757100216	40.0000	40.343
18 Dieldrin	5.574	5.574	0.000	5097461394	40.0000	43.323
20 Endrin	5.875	5.876	-0.001	3781705642	40.0000	39.042
23 4,4'-DDD	5.974	5.975	-0.001	3932299947	40.0000	39.066
24 Endosulfan II	6.081	6.081	0.000	3828746387	40.0000	44.212
25 4,4'-DDT	6.278	6.279	-0.001	4016576508	40.0000	40.952
26 Endrin Aldehyde	6.407	6.407	0.000	3478726054	40.0000	39.097
27 Endosulfan Sulfate	6.670	6.671	-0.001	3894139479	40.0000	40.238
29 Methoxychlor	6.932	6.933	-0.001	2051053148	40.0000	37.508

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Data File: /chem1/SVOA/GC_41.i/170202.b/b17020207.d
Report Date: 03-Feb-2017 09:37

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
30 Endrin Ketone	7.177	7.178	-0.001	4804702119	40.0000	41.799
$ 31 Decachlorobiphenyl	8.292	8.293	-0.001	7637481938	80.0000	80.681

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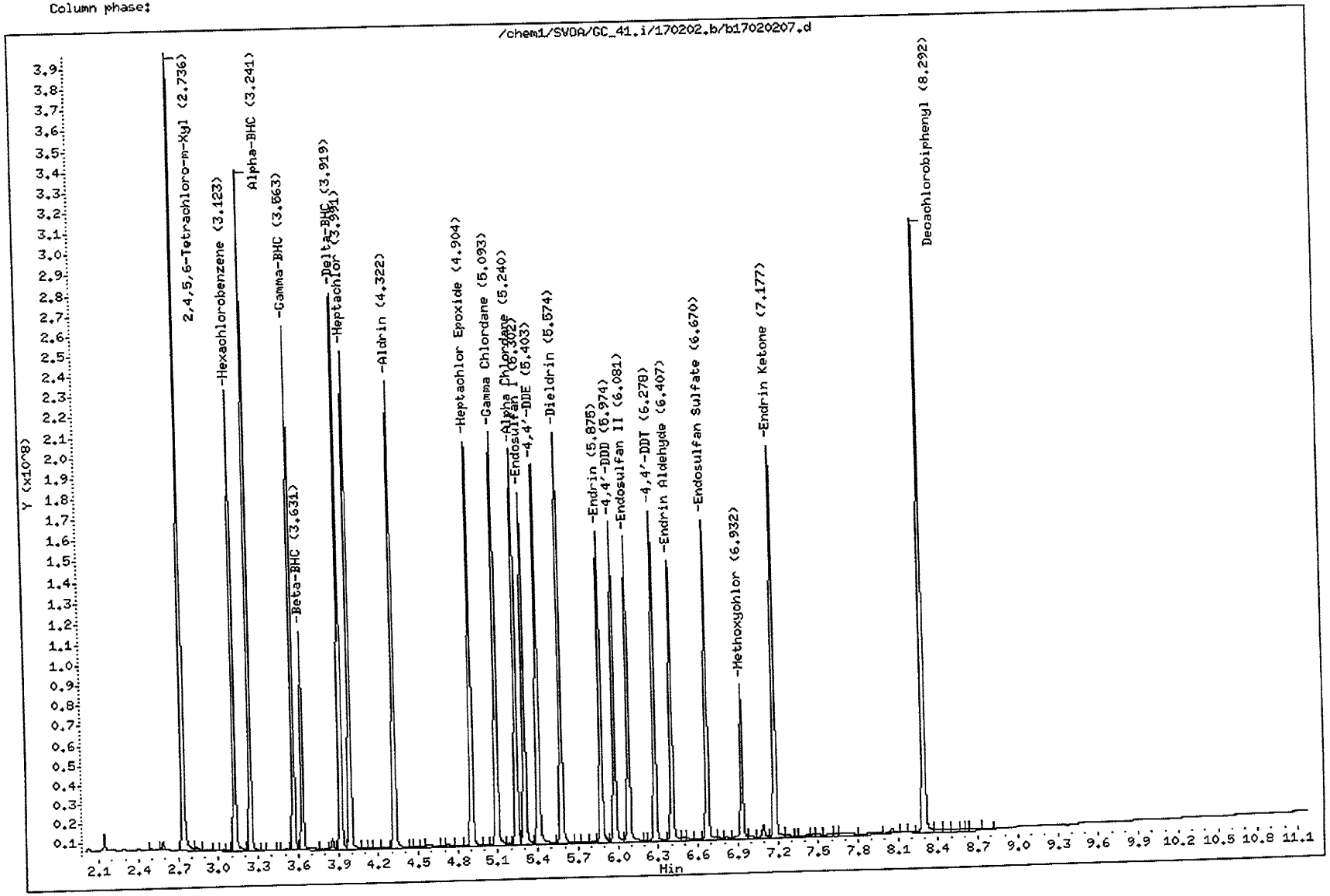
Data File: /chem1/SVOA/GC_41.i/170202.b/b17020207.d
Date : 02-FEB-2017 11:48
Client ID:
Sample Info: P-ICV P091716L 40PPB

Instrument: GC_41.i

Operator: 669
Column diameter: 2.00

Column phase:



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EPA METHOD 8081A
Organochlorine Pesticides

DDT/Endrin Breakdown

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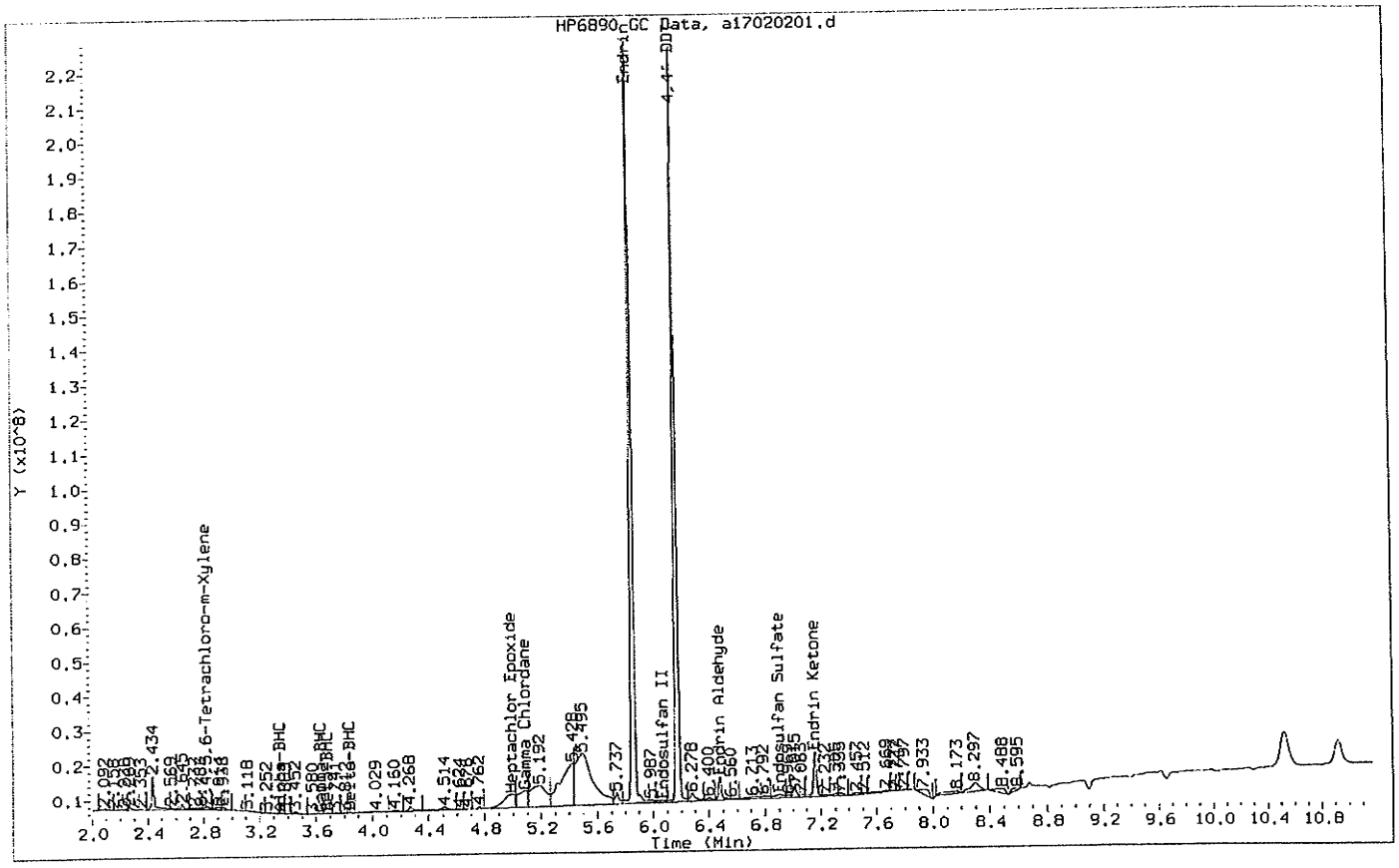
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: Fri Feb 3 09:32:12 2017

Datafile Analyzed: /chem1/SVOA/GC_41.i/170202.b/a17020201.d
Method Used: /chem1/SVOA/GC_41.i/170202.b/a8081d.m Inst: GC_41
Injection Date: 02-FEB-2017 10:18 Operator: 669
Sample Info: EVAL 50PPB P111616A
Misc Info:



DDT degradation *** PASSED ***
Endrin degradation *** PASSED ***
Tuning Sample, /chem1/SVOA/GC_41.i/170202.b/a17020201.d,*** PASSED ***

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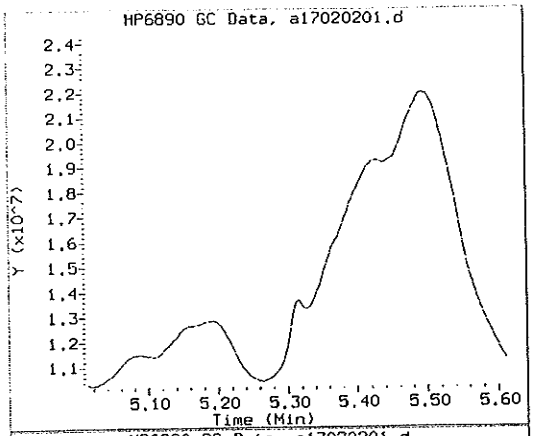
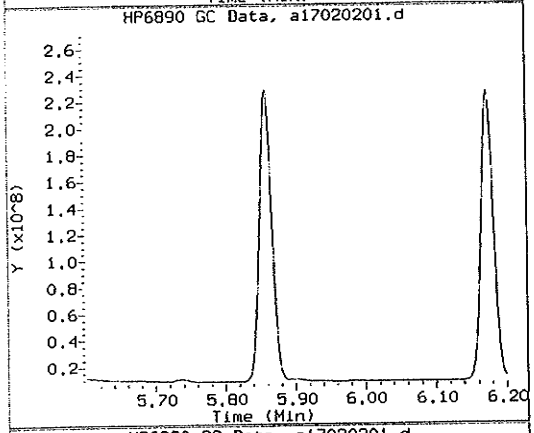
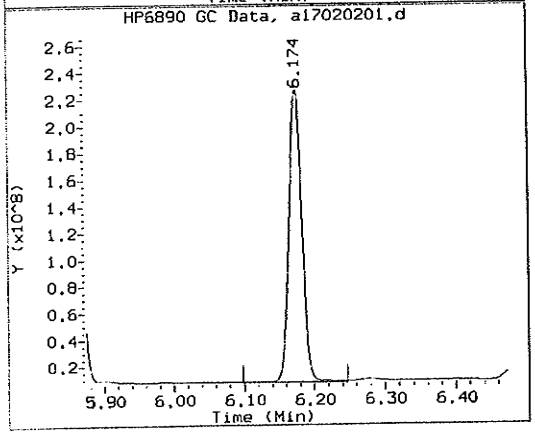


Compound: 4,4'-DDE
Quant Mass: 1
RT: 0.000
Area: 0



Compound: 4,4'-DDD
Quant Mass: 1
RT: 0.000
Area: 0



Compound: 4,4'-DDT
Quant Mass: 1
RT: 6.174
Area: 5523938153

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	5523938153			N/A
4,4-DDE	0	0.0	15.0	PASS
4,4-DDD	0	0.0	15.0	PASS
4,4-DDD + DDE	0	0.0	15.0	PASS

****
Resolution SAMPLE *** PASSED *** DDT BREAKDOWN TEST
****

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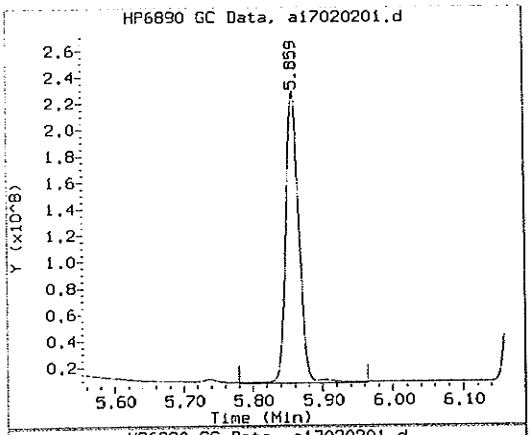
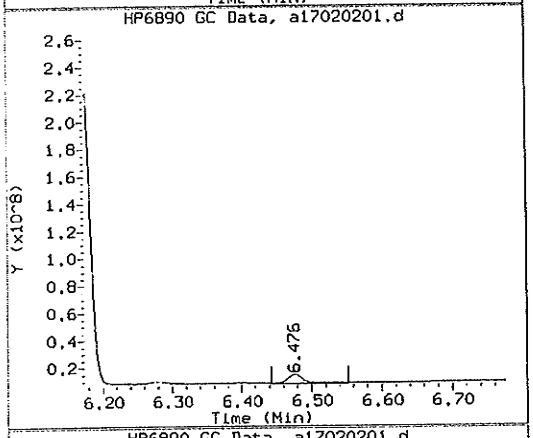
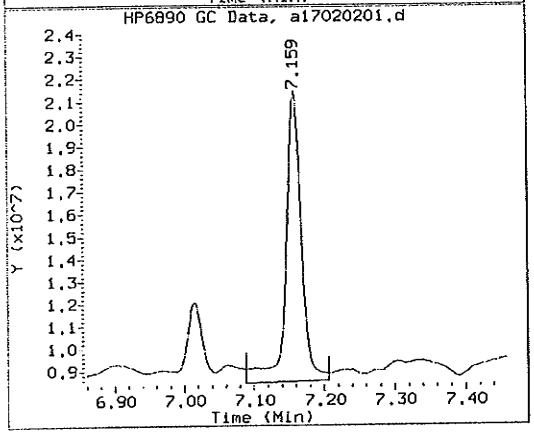


Compound: Endrin
Quant Mass: 1
RT: 5.859
Area: 5757229121



Compound: Endrin Aldehyde
Quant Mass: 1
RT: 6.476
Area: 222404939



Compound: Endrin Ketone
Quant Mass: 1
RT: 7.159
Area: 399937063

Endrin DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
Endrin	5757229121			N/A
E. Aldehyde	222404939	3.7	15.0	PASS
E. Ketone	399937063	6.5	15.0	PASS
Ketone+Aldehyde	622342002	9.8	15.0	PASS

****
Resolution SAMPLE *** PASSED *** Endrin BREAKDOWN TEST
****

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Data File: /chem1/SVOA/GC_41.i/170202.b/a17020201.d
Report Date: 03-Feb-2017 09:32

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170202.b/a17020201.d
Lab Smp Id:
Inj Date : 02-FEB-2017 10:18 Inst ID: GC_41.i
Operator : 669
Smp Info : EVAL 50PPB P111616A
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170202.b/a8081d.m
Meth Date : 02-Feb-2017 16:50 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: a17020224.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PEST.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)
T	1 2,4,5,6-Tetrachloro-m-Xylene	2.820	2.823	-0.003	53816454	0.50577	0.505(aR)
	2 Hexachlorobenzene	Compound Not Detected.					
	3 Alpha-BHC	3.348	3.321	0.027	1790308	0.01009	0.010(a)
	4 Gamma-BHC	3.637	3.611	0.026	1044449	0.00653	0.006(a)
	5 Beta-BHC	3.685	3.682	0.003	5403811	0.08490	0.084(a)
	6 Delta-BHC	3.841	3.860	-0.019	7071527	0.04590	0.045(a)
	7 Heptachlor	Compound Not Detected.					
	8 Aldrin	Compound Not Detected.					
	12 Heptachlor Epoxide	4.991	4.992	-0.001	475962868	3.79620	3.796(a)
	13 Gamma Chlordane	5.088	5.117	-0.029	449680979	3.42556	3.425(a)
	15 Alpha Chlordane	Compound Not Detected.					
	16 4,4'-DDE	Compound Not Detected.					
	17 Endosulfan I	Compound Not Detected.					
	19 Dieldrin	Compound Not Detected.					
	21 Endrin	5.859	5.857	0.002	5757229121	55.6764	55.676
	23 4,4'-DDD	Compound Not Detected.					
	24 Endosulfan II	6.073	6.074	-0.001	43886488	0.49943	0.499(a)
	25 4,4'-DDT	6.174	6.173	0.001	5523938153	51.9096	51.909
	26 Endrin Aldehyde	6.476	6.474	0.002	222404939	2.38389	2.383(a)
	27 Methoxychlor	Compound Not Detected.					
	29 Endosulfan Sulfate	6.903	6.888	0.015	97337194	0.97189	0.971(a)

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Data File: /chem1/SVOA/GC_41.i/170202.b/a17020201.d
Report Date: 03-Feb-2017 09:32

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
30 Endrin Ketone	7.159	7.157	0.002	399937063	3.28824	3.288(a)
T 31 Decachlorobiphenyl	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

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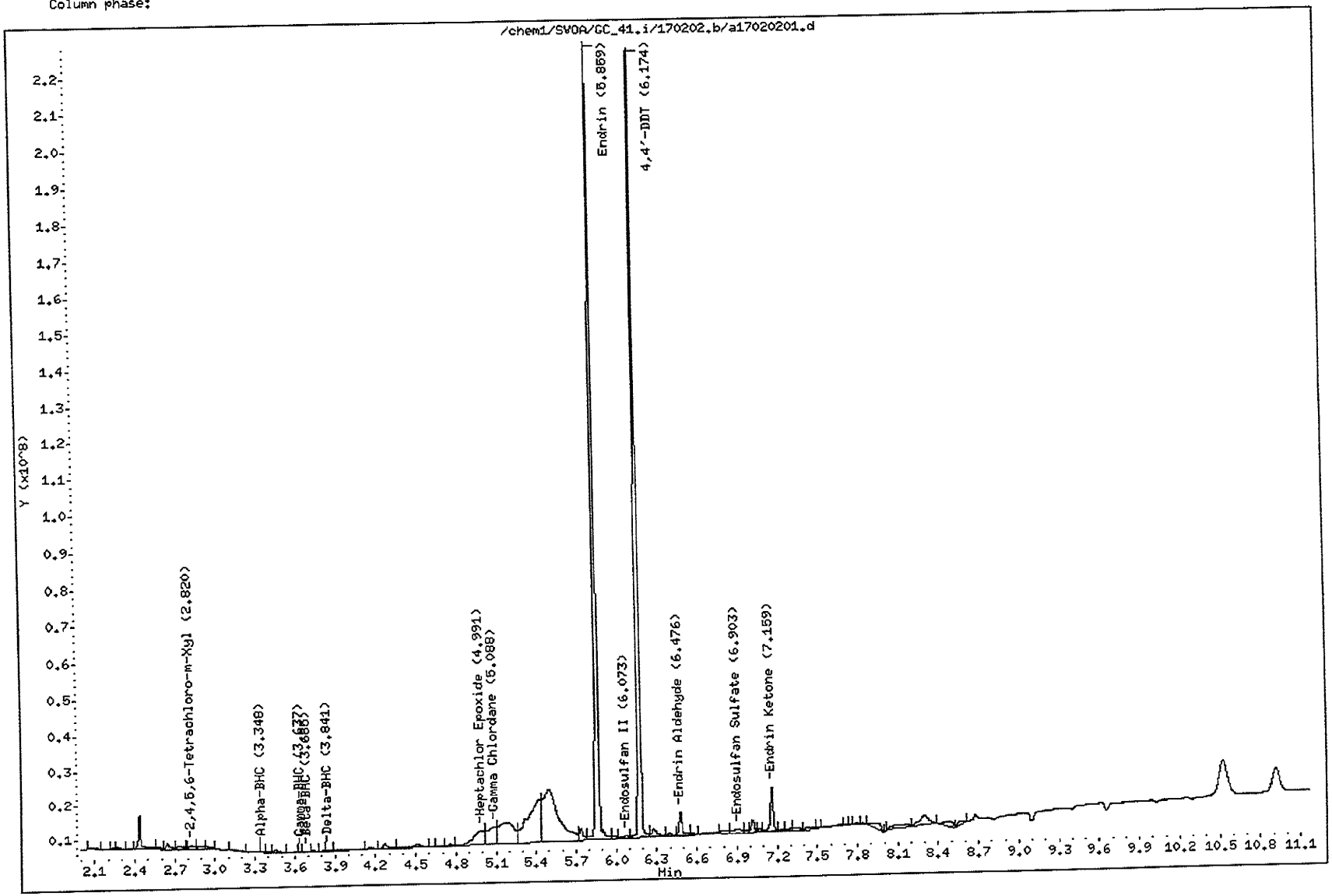
Data File: /chem1/SVOA/GC_41.i/170202.b/a17020201.d
Date : 02-FEB-2017 10:18
Client ID:
Sample Info: EVAL 50PPB P111616A

Column phase:

Instrument: GC_41.i

Operator: 669
Column diameter: 2.00



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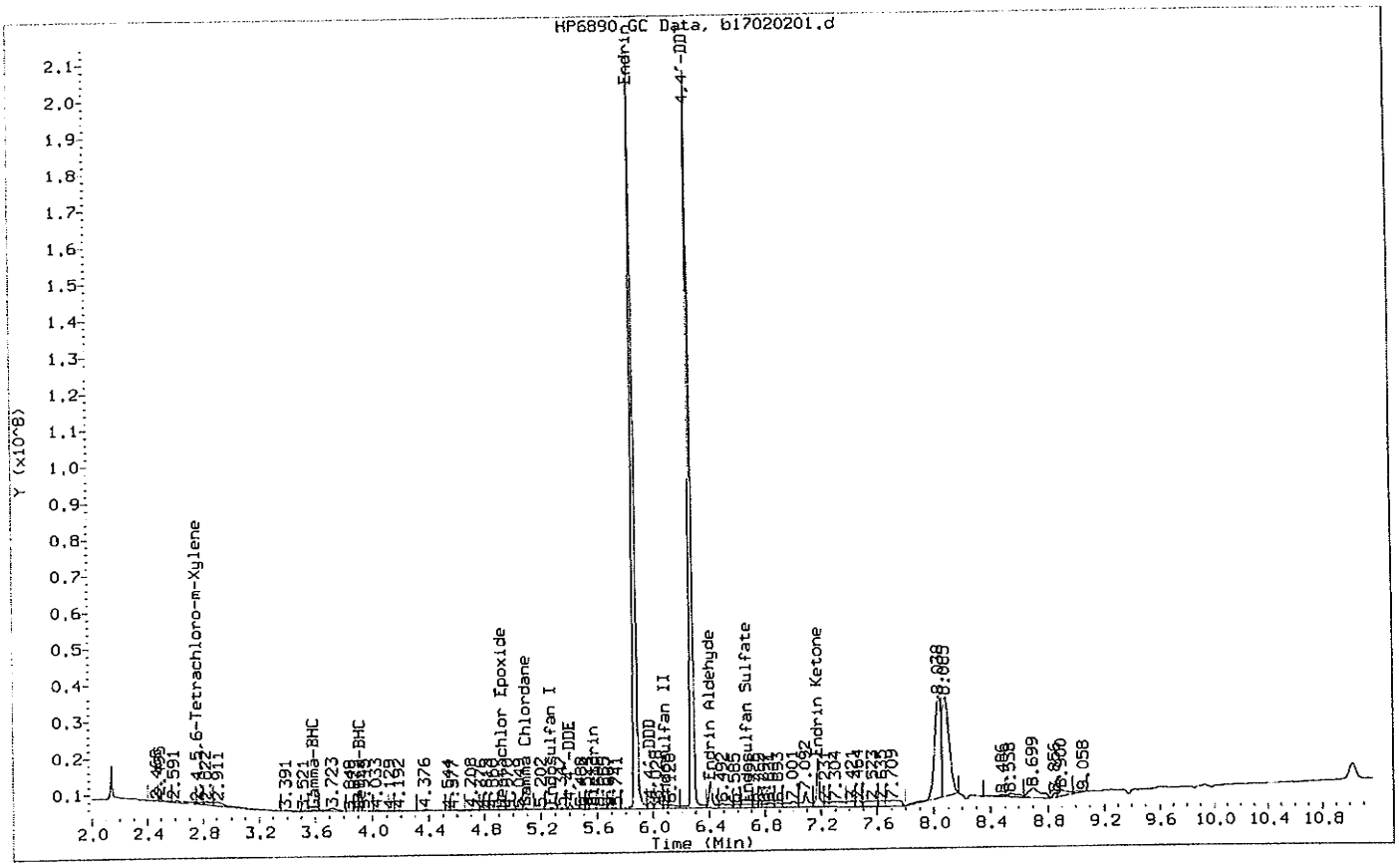
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: Fri Feb 3 10:04:00 2017

Datafile Analyzed: /chem1/SVOA/GC_41.i/170202.b/b17020201.d
Method Used: /chem1/SVOA/GC_41.i/170202.b/b8081d.m Inst: GC_41
Injection Date: 02-FEB-2017 10:18 Operator: 669
Sample Info: EVAL 50PPB P111616A
Misc Info:



DDT degradation *** PASSED ***
Endrin degradation *** PASSED ***
Tuning Sample, /chem1/SVOA/GC_41.i/170202.b/b17020201.d,*** PASSED ***

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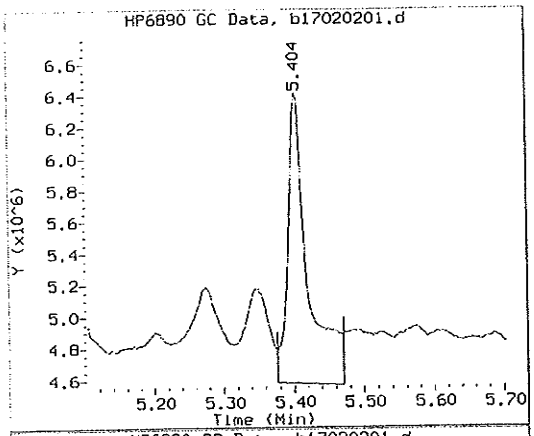
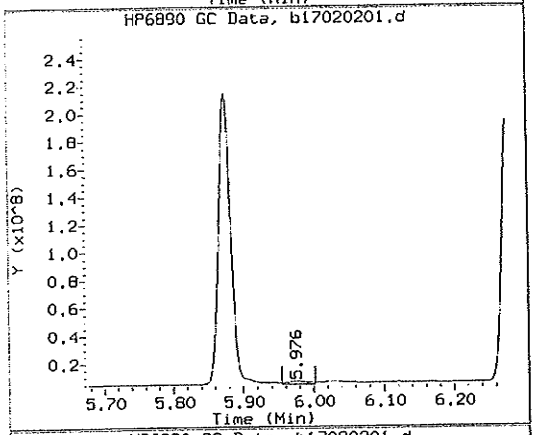
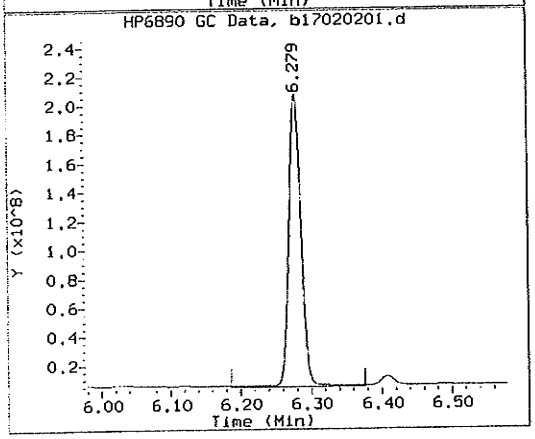


Compound: 4,4'-DDE
Quant Mass: 1
RT: 5.404
Area: 73750366



Compound: 4,4'-DDD
Quant Mass: 1
RT: 5.976
Area: 82957348



Compound: 4,4'-DDT
Quant Mass: 1
RT: 6.279
Area: 4970723962

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	4970723962			N/A
4,4-DDE	73750366	1.5	15.0	PASS
4,4-DDD	82957348	1.6	15.0	PASS
4,4-DDD + DDE	156707714	3.1	15.0	PASS

Resolution SAMPLE ********** *** PASSED *** DDT BREAKDOWN TEST **********

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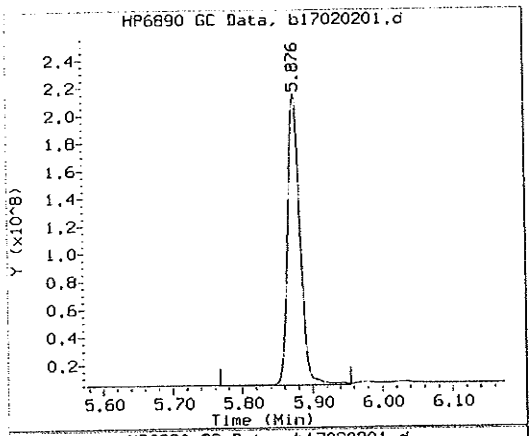
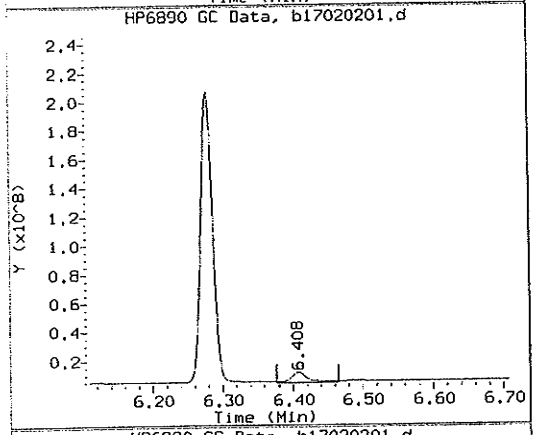
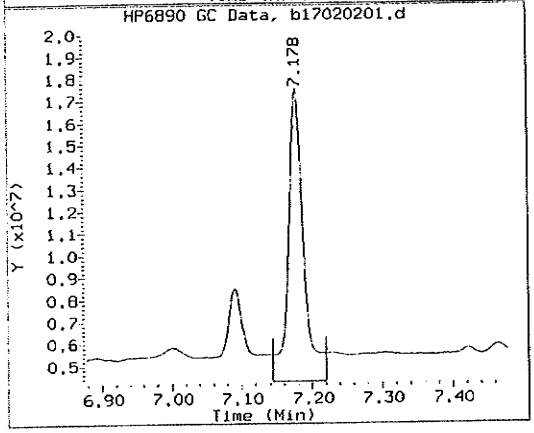


Compound: Endrin
Quant Mass: 1
RT: 5.876
Area: 5212212579



Compound: Endrin Aldehyde
Quant Mass: 1
RT: 6.408
Area: 249413850



Compound: Endrin Ketone
Quant Mass: 1
RT: 7.178
Area: 401278408

Endrin DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
Endrin	5212212579			N/A
E. Aldehyde	249413850	4.6	15.0	PASS
E. Ketone	401278408	7.1	15.0	PASS
Ketone+Aldehyde	650692258	11.1	15.0	PASS

Resolution SAMPLE *** PASSED *** Endrin BREAKDOWN TEST

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Data File: /chem1/SVOA/GC_41.i/170202.b/b17020201.d
Report Date: 03-Feb-2017 10:03

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170202.b/b17020201.d
Lab Smp Id:
Inj Date : 02-FEB-2017 10:18
Operator : 669 Inst ID: GC_41.i
Smp Info : EVAL 50PPB P111616A
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170202.b/b8081d.m
Meth Date : 03-Feb-2017 09:39 uj3k Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: b17020224.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PEST.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)
$	1 2,4,5,6-Tetrachloro-m-Xylene	2.757	2.736	0.021	36418025	0.36949	0.369(aR)
	2 Hexachlorobenzene	Compound Not Detected.					
	3 Alpha-BHC	Compound Not Detected.					
	4 Gamma-BHC	3.589	3.563	0.026	19784041	0.13130	0.131(a)
	5 Beta-BHC	Compound Not Detected.					
	6 Delta-BHC	3.916	3.919	-0.003	1755390	0.01201	0.012(a)
	7 Heptachlor	Compound Not Detected.					
	8 Aldrin	Compound Not Detected.					
	11 Heptachlor Epoxide	4.924	4.904	0.020	7350669	0.06263	0.062(a)
	13 Gamma Chlordane	5.092	5.093	-0.001	26265008	0.21181	0.211(a)
	15 Alpha Chlordane	Compound Not Detected.					
	16 Endosulfan I	5.274	5.302	-0.028	39443795	0.37646	0.376(a)
	17 4,4'-DDE	5.404	5.403	0.001	73750366	0.62546	0.625(a)
	18 Dieldrin	5.573	5.574	-0.001	21224413	0.18039	0.180(a)
	20 Endrin	5.876	5.875	0.001	5212212579	53.8114	53.811
	23 4,4'-DDD	5.976	5.974	0.002	82957348	0.82416	0.824(a)
	24 Endosulfan II	6.083	6.081	0.002	38477995	0.44433	0.444(a)
	25 4,4'-DDT	6.279	6.278	0.001	4970723962	50.6805	50.680
	26 Endrin Aldehyde	6.408	6.407	0.001	249413850	2.80318	2.803(a)
	27 Endosulfan Sulfate	6.668	6.670	-0.002	94159209	0.97294	0.972(a)
	29 Methoxychlor	Compound Not Detected.					

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Data File: /chem1/SVOA/GC_41.i/170202.b/b17020201.d
Report Date: 03-Feb-2017 10:03

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)
30 Endrin Ketone	7.178	7.177	0.001	401278408	3.49102	3.491(a)
$ 31 Decachlorobiphenyl	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

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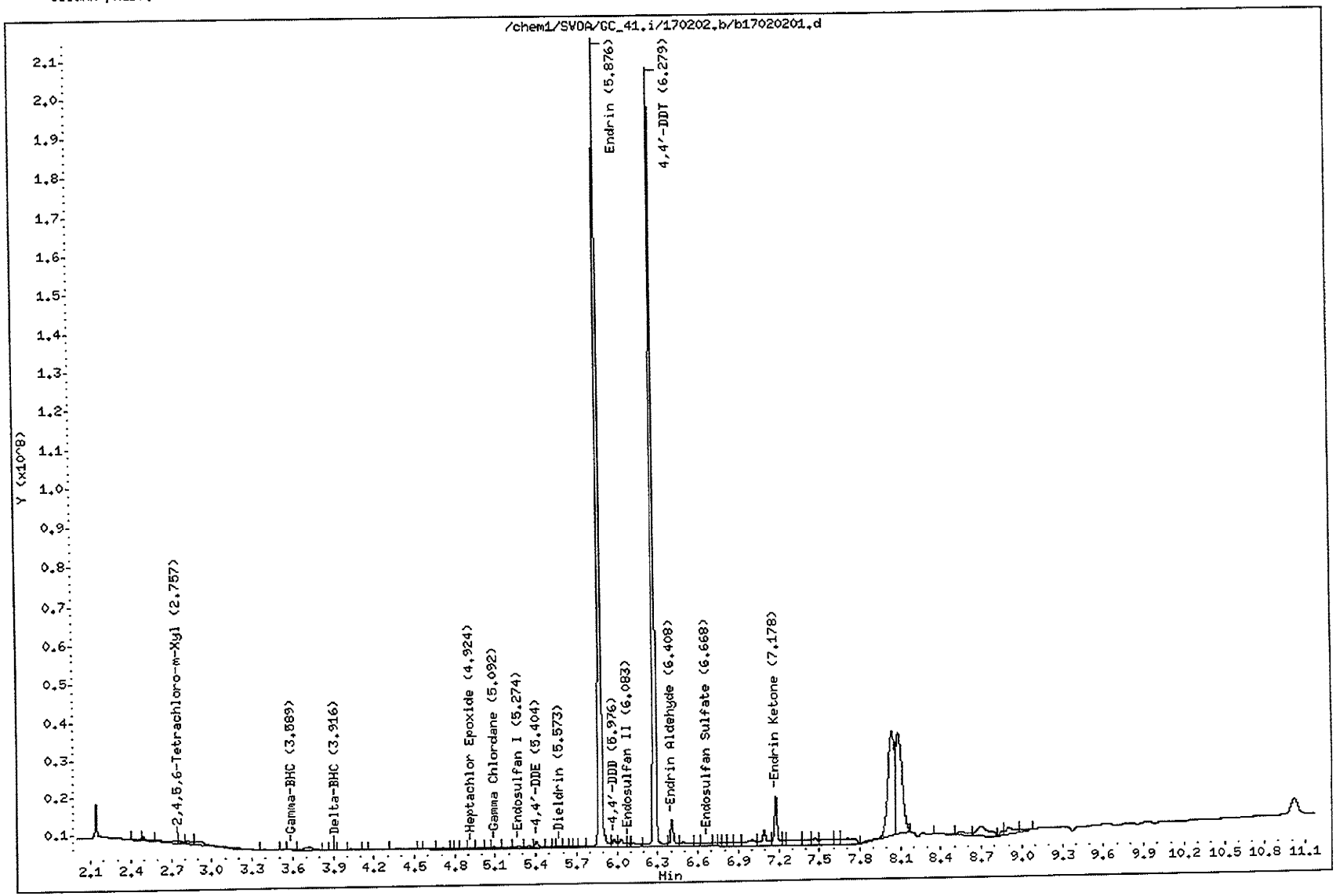
Data File: /chem1/SVOA/GC_41.i/170202.b/b17020201.d
Date : 02-FEB-2017 10:18
Client ID:
Sample Info: EVAL 50PPB P111616A

Instrument: GC_41.i

Operator: 669
Column diameter: 2.00

Column phase:



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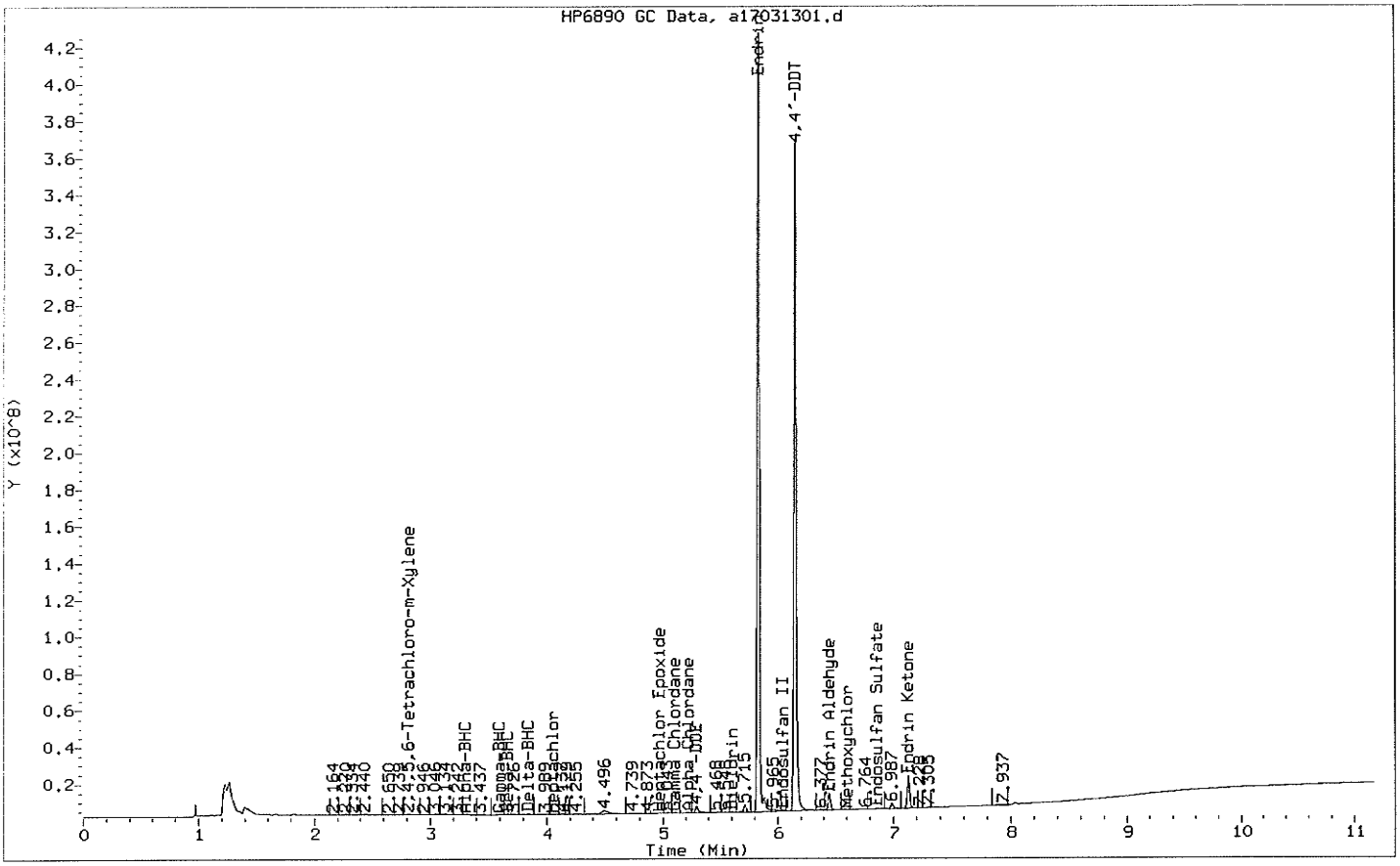
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: Mon Mar 13 10:03:52 2017

Datafile Analyzed: /chem1/SVOA/GC_41.i/170313.b/a17031301.d
Method Used: /chem1/SVOA/GC_41.i/170313.b/a8081d.m Inst: GC_41
Injection Date: 13-MAR-2017 09:45 Operator: 669
Sample Info: EVAL 50PPB P111616A
Misc Info:



DDT degradation *** PASSED ***
Endrin degradation *** PASSED ***
Tuning Sample, /chem1/SVOA/GC_41.i/170313.b/a17031301.d,*** PASSED ***

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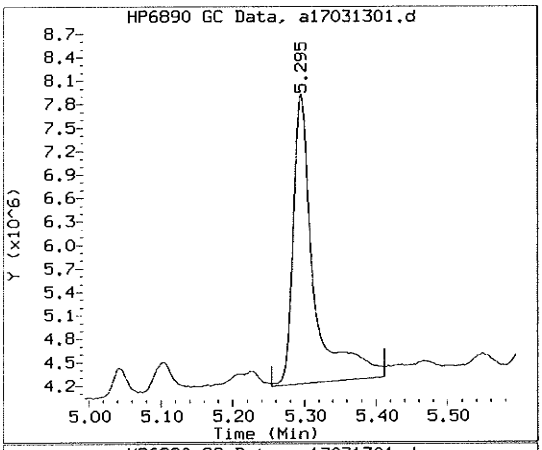
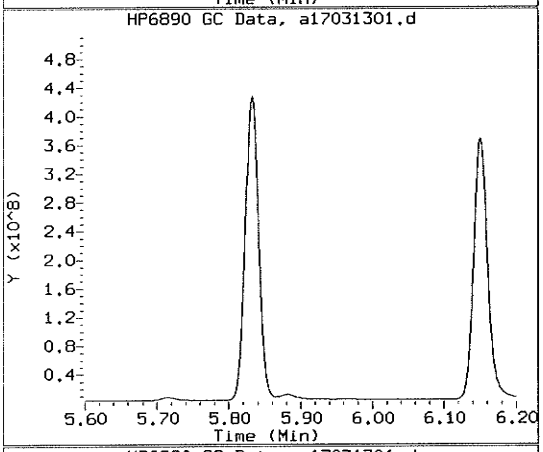
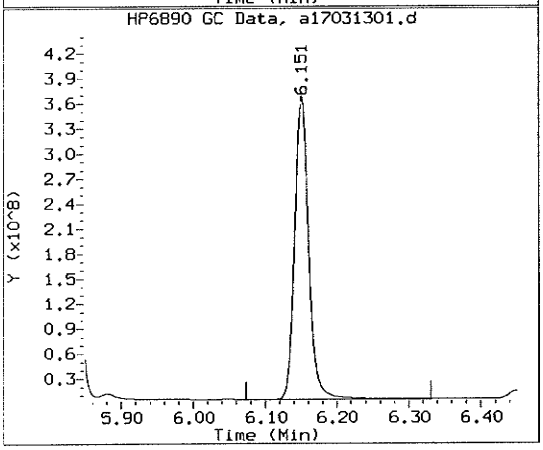


Compound: 4,4'-DDE
Quant Mass: 1
RT: 5.295
Area: 150432258



Compound: 4,4'-DDD
Quant Mass: 1
RT: 0.000
Area: 0



Compound: 4,4'-DDT
Quant Mass: 1
RT: 6.151
Area: 10027883284

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	10027883284			N/A
4,4-DDE	150432258	1.5	15.0	PASS
4,4-DDD	0	0.0	15.0	PASS
4,4-DDD + DDE	150432258	1.5	15.0	PASS

****
Resolution SAMPLE *** PASSED *** DDT BREAKDOWN TEST
****

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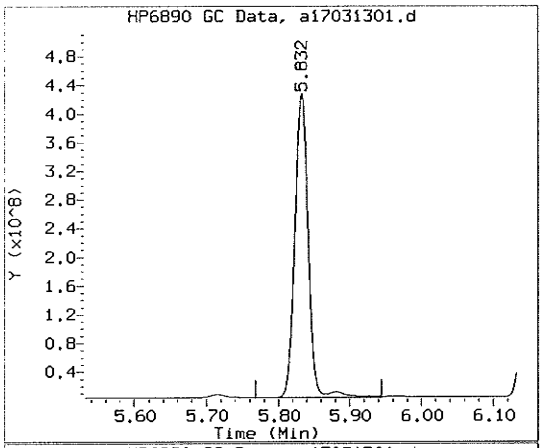
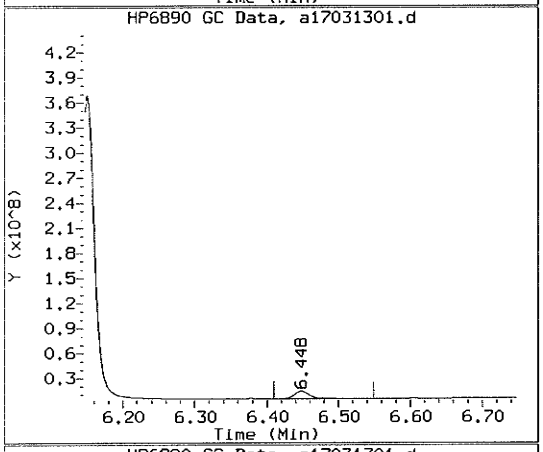
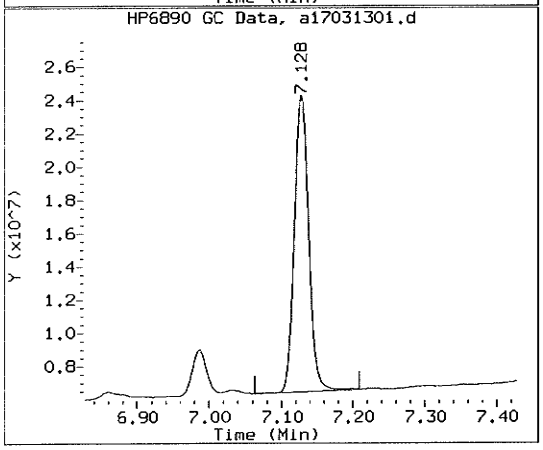


Compound: Endrin
Quant Mass: 1
RT: 5.832
Area: 11086604782



Compound: Endrin Aldehyde
Quant Mass: 1
RT: 6.448
Area: 264494031



Compound: Endrin Ketone
Quant Mass: 1
RT: 7.128
Area: 499026925

Endrin DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
Endrin	11086604782			N/A
E. Aldehyde	264494031	2.3	15.0	PASS
E. Ketone	499026925	4.3	15.0	PASS
Ketone+Aldehyde	763520956	6.4	15.0	PASS

****
Resolution SAMPLE *** PASSED *** Endrin BREAKDOWN TEST
****

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Data File: /chem1/SVOA/GC_41.i/170313.b/a17031301.d Page 1
Report Date: 13-Mar-2017 10:03

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170313.b/a17031301.d
Lab Smp Id:
Inj Date : 13-MAR-2017 09:45
Operator : 669 Inst ID: GC_41.i
Smp Info : EVAL 50PPB P111616A
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170313.b/a8081d.m
Meth Date : 03-Feb-2017 09:40 uj3k Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: a17020224.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PEST.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

						CONCENTRATIONS	
						ON-COLUMN	FINAL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppb)	(ppb)
T	1 2,4,5,6-Tetrachloro-m-Xylene	2.813	2.823	-0.010	22102027	0.20771	0.207(aR)
	2 Hexachlorobenzene	Compound Not Detected.					
	3 Alpha-BHC	3.309	3.321	-0.012	5909110	0.03330	0.033(a)
	4 Gamma-BHC	3.598	3.611	-0.013	3879968	0.02427	0.024(a)
	5 Beta-BHC	3.670	3.682	-0.012	9351321	0.14692	0.146(a)
	6 Delta-BHC	3.845	3.860	-0.015	21564824	0.13997	0.139(a)
	7 Heptachlor	4.056	4.074	-0.018	3552511	0.02221	0.022(a)
	8 Aldrin	Compound Not Detected.					
	12 Heptachlor Epoxide	4.970	4.992	-0.022	8439107	0.06731	0.067(a)
	13 Gamma Chlordane	5.103	5.117	-0.014	17700151	0.13484	0.134(a)
	15 Alpha Chlordane	5.224	5.249	-0.025	14882240	0.11861	0.118(a)
	16 4,4'-DDE	5.295	5.311	-0.016	150432258	1.21292	1.212(a)
	17 Endosulfan I	Compound Not Detected.					
	19 Dieldrin	5.602	5.625	-0.023	6071024	0.04941	0.049(a)
	21 Endrin	5.832	5.857	-0.025	11086604782	107.215	107.215
	23 4,4'-DDD	Compound Not Detected.					
	24 Endosulfan II	6.048	6.074	-0.026	20558671	0.23396	0.233(a)
	25 4,4'-DDT	6.151	6.173	-0.022	10027883284	94.2340	94.234
	26 Endrin Aldehyde	6.448	6.474	-0.026	264494031	2.83503	2.835(a)
	27 Methoxychlor	6.605	6.626	-0.021	2971776	0.05252	0.052(a)
	29 Endosulfan Sulfate	6.862	6.888	-0.026	19479698	0.19450	0.194(a)

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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)
30 Endrin Ketone	7.128	7.157	-0.029	499026925	4.10295	4.102(a)
T 31 Decachlorobiphenyl	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

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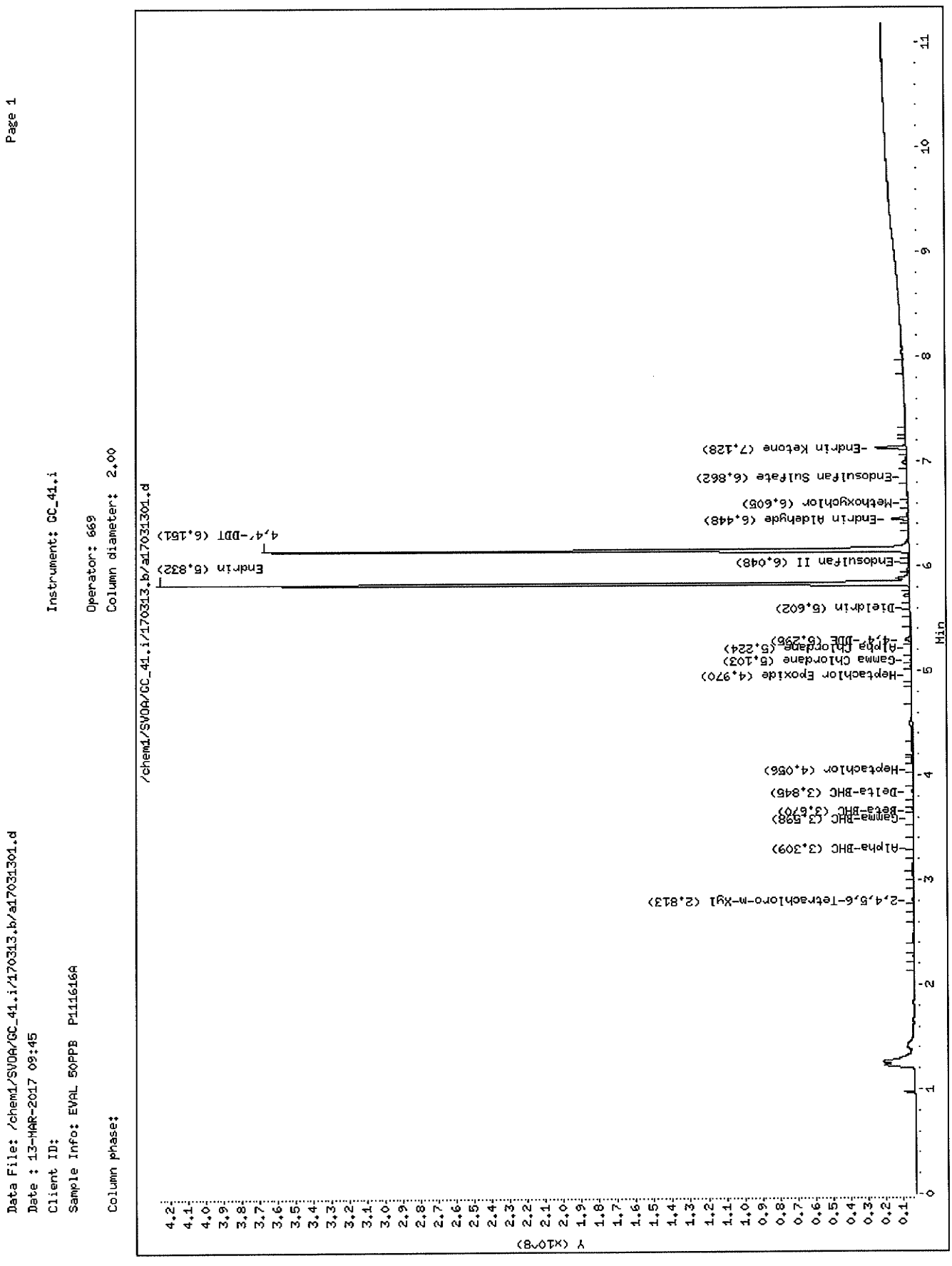

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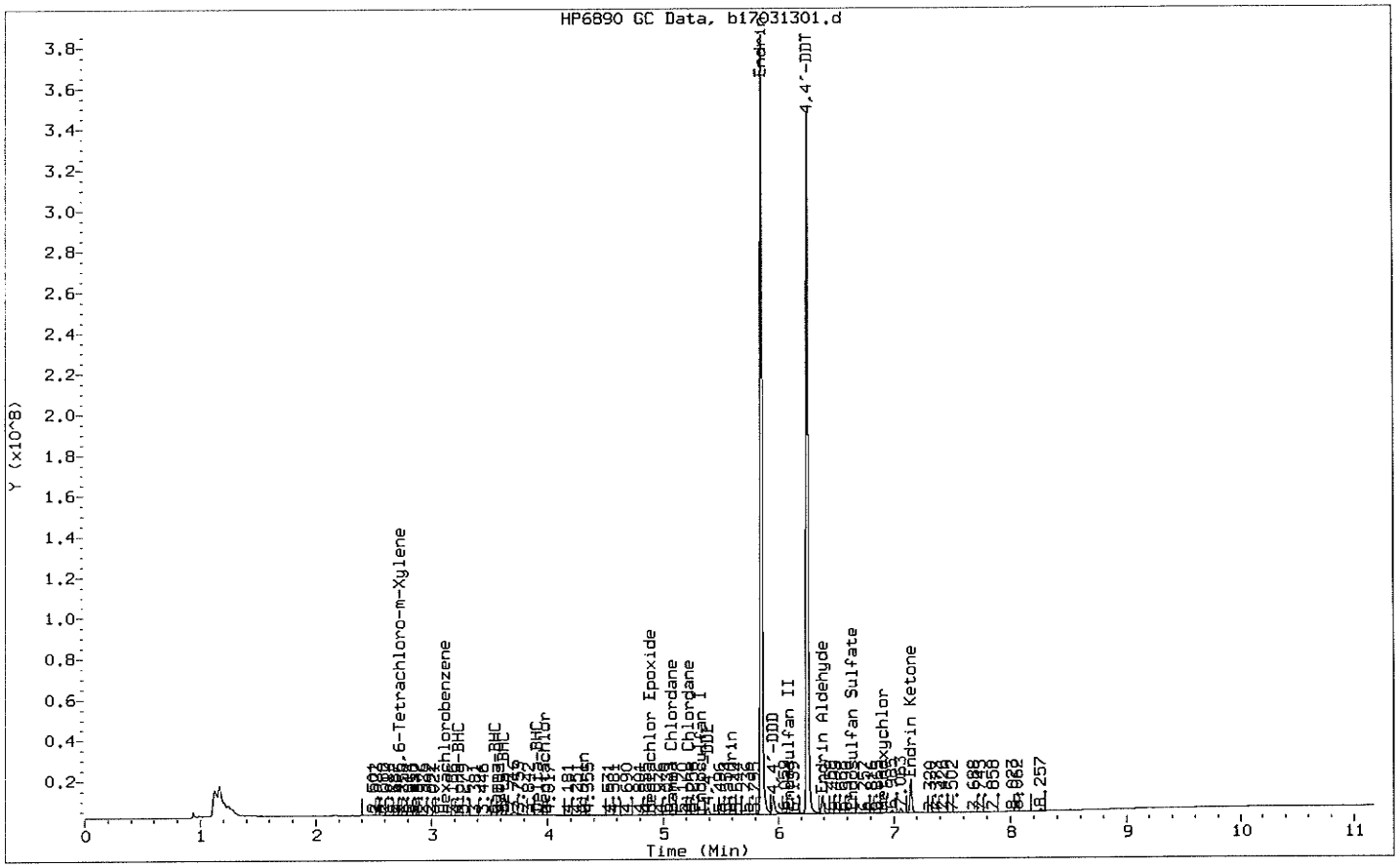
DFTPP TUNE/TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: Mon Mar 13 10:03:54 2017

Datafile Analyzed: /chem1/SVOA/GC_41.i/170313.b/b17031301.d
Method Used: /chem1/SVOA/GC_41.i/170313.b/b8081d.m Inst: GC_41
Injection Date: 13-MAR-2017 09:45 Operator: 669
Sample Info: EVAL 50PPB P111616A
Misc Info:



DDT degradation *** PASSED ***
Endrin degradation *** PASSED ***
Tuning Sample, /chem1/SVOA/GC_41.i/170313.b/b17031301.d,*** PASSED ***

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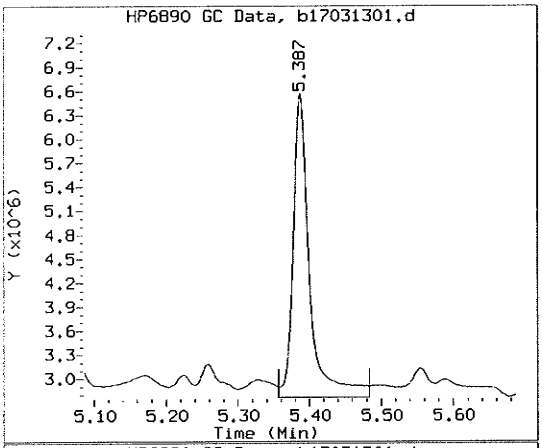
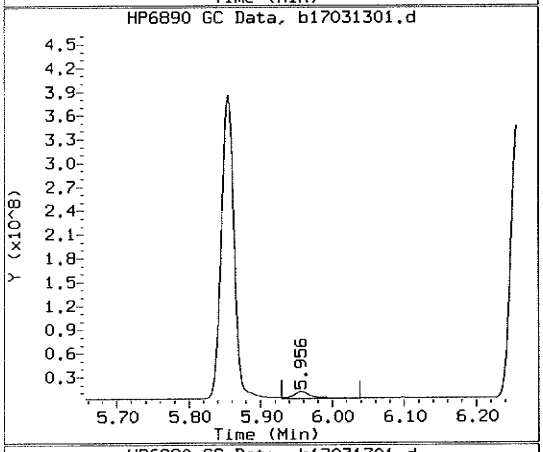
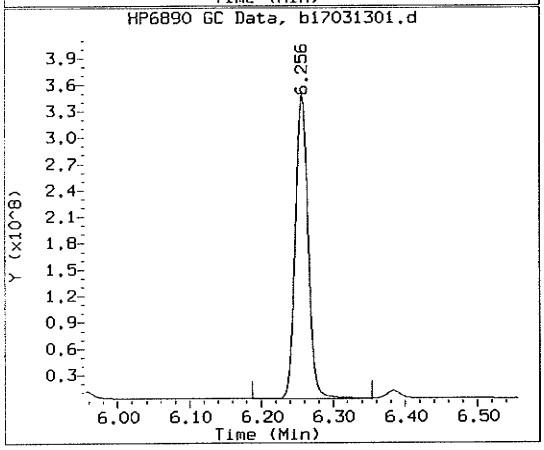


Compound: 4,4'-DDE
Quant Mass: 1
RT: 5.387
Area: 121192046



Compound: 4,4'-DDD
Quant Mass: 1
RT: 5.956
Area: 328127747



Compound: 4,4'-DDT
Quant Mass: 1
RT: 6.256
Area: 8665206833

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	8665206833			N/A
4,4-DDE	121192046	1.4	15.0	PASS
4,4-DDD	328127747	3.6	15.0	PASS
4,4-DDD + DDE	449319793	4.9	15.0	PASS

****
Resolution SAMPLE *** PASSED *** DDT BREAKDOWN TEST
****

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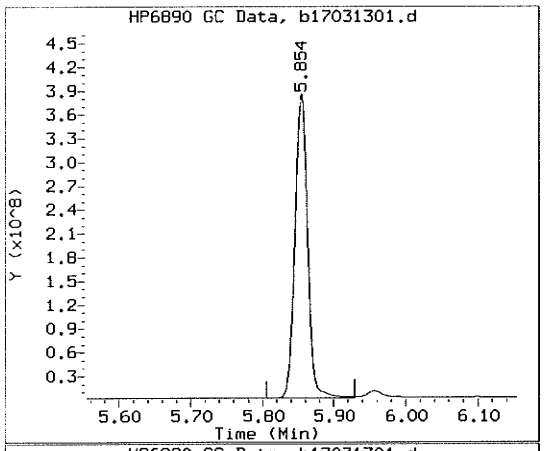
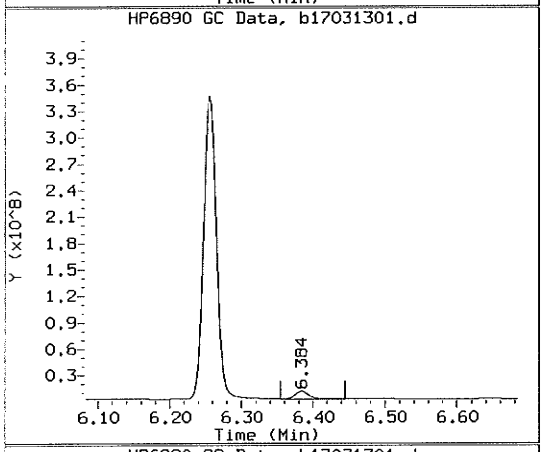
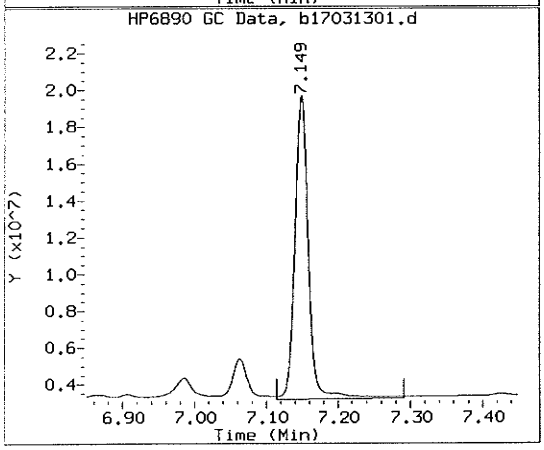


Compound: Endrin
Quant Mass: 1
RT: 5.854
Area: 9594957930



Compound: Endrin Aldehyde
Quant Mass: 1
RT: 6.384
Area: 272825805



Compound: Endrin Ketone
Quant Mass: 1
RT: 7.149
Area: 442454890

Endrin DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
Endrin	9594957930			N/A
E. Aldehyde	272825805	2.8	15.0	PASS
E. Ketone	442454890	4.4	15.0	PASS
Ketone+Aldehyde	715280695	6.9	15.0	PASS

****
Resolution SAMPLE *** PASSED *** Endrin BREAKDOWN TEST
****

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Data File: /chem1/SVOA/GC_41.i/170313.b/b17031301.d Page 1
Report Date: 13-Mar-2017 10:03

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170313.b/b17031301.d
Lab Smp Id:
Inj Date : 13-MAR-2017 09:45
Operator : 669 Inst ID: GC_41.i
Smp Info : EVAL 50PPB P111616A
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170313.b/b8081d.m
Meth Date : 03-Feb-2017 10:20 uj3k Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: b17020224.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PEST.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

						CONCENTRATIONS	
						ON-COLUMN	FINAL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppb)	(ppb)
$	1 2,4,5,6-Tetrachloro-m-Xylene	2.732	2.736	-0.004	5322812	0.05400	0.054(aR)
	2 Hexachlorobenzene	3.115	3.123	-0.008	11207771	0.09260	0.092(a)
	3 Alpha-BHC	3.236	3.241	-0.005	3777231	0.02243	0.022(a)
	4 Gamma-BHC	3.554	3.563	-0.009	6081054	0.04036	0.040(a)
	5 Beta-BHC	3.624	3.631	-0.007	15044516	0.24715	0.247(a)
	6 Delta-BHC	3.909	3.919	-0.010	22959559	0.15712	0.157(a)
	7 Heptachlor	3.977	3.991	-0.014	3348815	0.02261	0.022(a)
	8 Aldrin	4.310	4.322	-0.012	3583016	0.02628	0.026(a)
	11 Heptachlor Epoxide	4.889	4.904	-0.015	8171128	0.06962	0.069(a)
	13 Gamma Chlordane	5.077	5.093	-0.016	17851851	0.14396	0.143(a)
	15 Alpha Chlordane	5.224	5.240	-0.016	9186641	0.07713	0.077(a)
	16 Endosulfan I	5.328	5.302	0.026	11675910	0.11144	0.111(a)
	17 4,4'-DDE	5.387	5.403	-0.016	121192046	1.02780	1.027(a)
	18 Dieldrin	5.588	5.574	0.014	10686742	0.09083	0.090(a)
	20 Endrin	5.854	5.875	-0.021	9594957930	99.0594	99.059
	23 4,4'-DDD	5.956	5.974	-0.018	328127747	3.25988	3.259(a)
	24 Endosulfan II	6.098	6.081	0.017	37750927	0.43593	0.435(a)
	25 4,4'-DDT	6.256	6.278	-0.022	8665206833	88.3487	88.348
	26 Endrin Aldehyde	6.384	6.407	-0.023	272825805	3.06631	3.066(a)
	27 Endosulfan Sulfate	6.645	6.670	-0.025	24659252	0.25480	0.254(a)
	29 Methoxychlor	6.906	6.932	-0.026	14131728	0.25843	0.258(a)

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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)
30 Endrin Ketone	7.149	7.177	-0.028	442454890	3.84924	3.849(a)
$ 31 Decachlorobiphenyl	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

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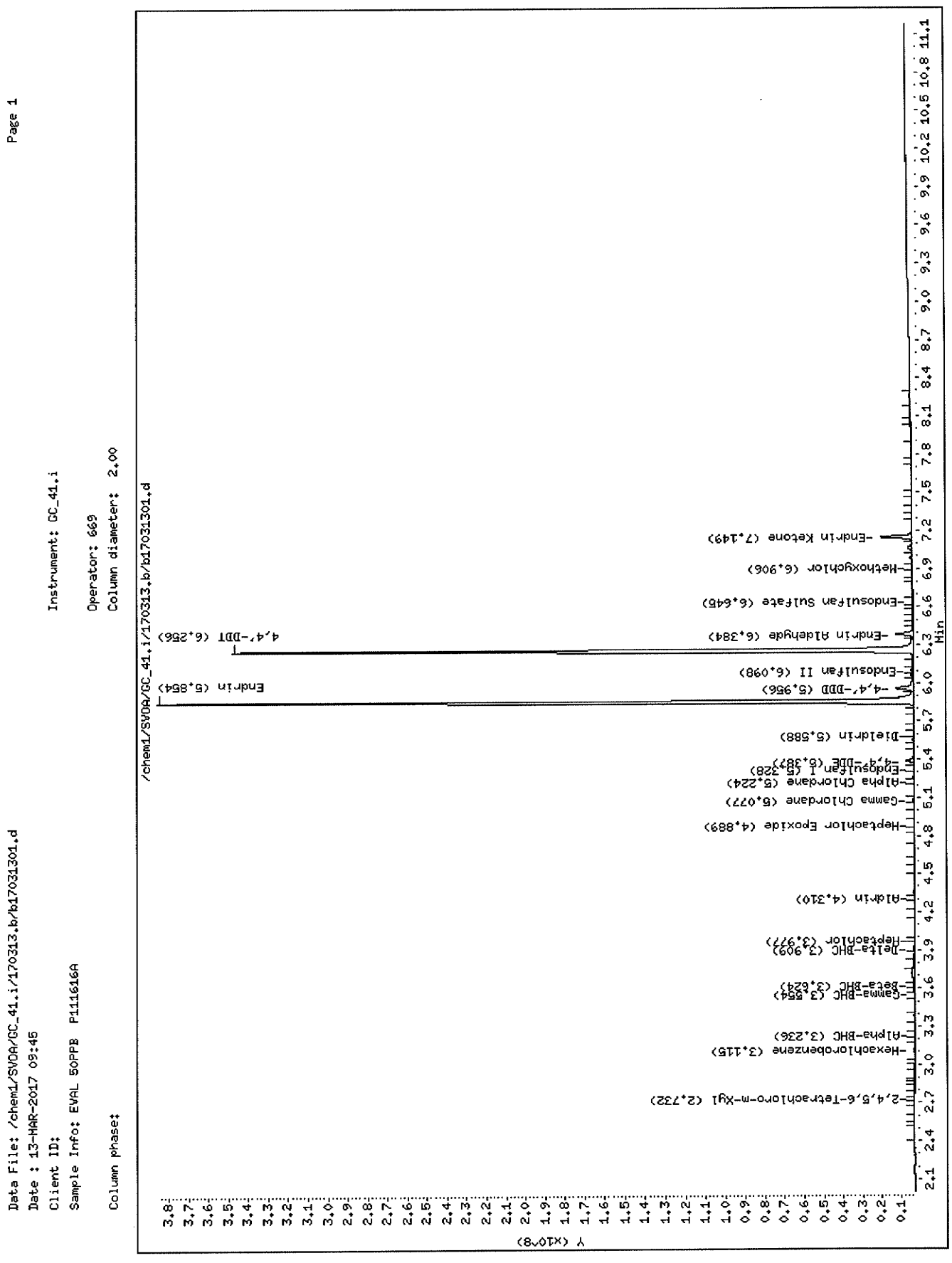

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EPA METHOD 8081A
Organochlorine Pesticides

Sample Data

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RAW DATA SHEET
FOR METHOD: EPA 8081A

WORK ORDER: **17-03-0531**
INSTRUMENT: GC 41
EXTRACTION : EPA 3545
D/T EXTRACTED: 2017-03-09 00:00

ANALYZED BY: 669
D/T ANALYZED: 2017-03-13 13:32
REVIEWED BY: 27
D/T REVIEWED: 2017-03-16 15:49

DATA FILE: /chem1/SVOA/GC_41/170313/a1703131617031316

19 **CLIENT SAMPLE NUMBER:** **D-DU1-S-08-1**

LCS/MB BATCH: 170309L07
MS/MSD BATCH: 170309S07
UNITS: ug/kg

SAMPLE VOLUME / WEIGHT: DEFAULT: 20.00 g / ACTUAL: 20.00 g
FINAL VOLUME / WEIGHT: DEFAULT: 10.00 ml / ACTUAL: 10.00 ml
ADJUSTMENT RATIO TO PF: 1.00

COMMENT:

COMPOUND NAME	ON COL CONC	CONC	DF	RL	QUAL	RPD	TYPE	CONF CONC
Aldrin	0.000	ND	1.00	5.0			2	ND
Alpha-BHC	0.0130	ND	1.00	10			2	ND
Beta-BHC	0.380	ND	1.00	5.0			2	ND
Chlordane	0.000	ND	1.00	50			2	ND
4,4'-DDD	0.106	ND	1.00	5.0			2	ND
4,4'-DDE	0.0800	ND	1.00	5.0			2	ND
4,4'-DDT	0.175	ND	1.00	5.0			2	ND
Delta-BHC	0.0630	ND	1.00	10			2	ND
Dieldrin	0.0210	ND	1.00	5.0			2	ND
Endosulfan I	0.256	ND	1.00	5.0			2	ND
Endosulfan II	0.0520	ND	1.00	5.0			2	ND
Endosulfan Sulfate	0.000	ND	1.00	5.0			2	ND
Endrin	0.000	ND	1.00	5.0			2	ND
Endrin Aldehyde	0.139	ND	1.00	5.0			2	ND
Endrin Ketone	3.08	ND	1.00	5.0			2	ND
Gamma-BHC	0.0220	ND	1.00	5.0			2	ND
Heptachlor	0.273	ND	1.00	5.0			2	ND
Heptachlor Epoxide	0.000	ND	1.00	10			2	ND
Methoxychlor	0.721	ND	1.00	5.0			2	ND
Toxaphene	0.000	ND	1.00	100			2	ND

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Data File: /chem1/SVOA/GC_41.i/170313.b/a17031316.d
Report Date: 13-Mar-2017 14:14

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170313.b/a17031316.d
Lab Smp Id:
Inj Date : 13-MAR-2017 13:32
Operator : 669 Inst ID: GC_41.i
Smp Info : 17-03-0531-19
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170313.b/a8081d.m
Meth Date : 13-Mar-2017 11:37 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: a17020224.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: regpest.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
T	1 2,4,5,6-Tetrachloro-m-Xylene	2.843	2.840	0.003	6802703712	63.9317	63.931
	2 Hexachlorobenzene	3.169	3.169	0.000	93381991	0.64762	0.647(a)
	3 Alpha-BHC	3.304	3.311	-0.007	2381986	0.01343	0.013(a)
	4 Gamma-BHC	3.618	3.598	0.020	3617562	0.02262	0.022(a)
	5 Beta-BHC	3.689	3.669	0.020	24234904	0.38075	0.380(a)
	6 Delta-BHC	3.852	3.846	0.006	9722685	0.06311	0.063(a)
	7 Heptachlor	4.031	4.058	-0.027	43680219	0.27310	0.273(a)
	8 Aldrin	Compound Not Detected.					
	12 Heptachlor Epoxide	Compound Not Detected.					
	13 Gamma Chlordane	Compound Not Detected.					
	15 Alpha Chlordane	5.246	5.227	0.019	5214853	0.04156	0.041(a)
	16 4,4'-DDE	5.293	5.293	0.000	9940715	0.08015	0.080(a)
	17 Endosulfan I	5.392	5.368	0.024	28161991	0.25664	0.256(a)
	19 Dieldrin	5.609	5.602	0.007	2687882	0.02188	0.021(a)
	21 Endrin	Compound Not Detected.					
	23 4,4'-DDD	5.900	5.880	0.020	10943559	0.10618	0.106(a)
	24 Endosulfan II	6.025	6.048	-0.023	4589333	0.05223	0.052(a)
	25 4,4'-DDT	6.176	6.150	0.026	18694633	0.17568	0.175(a)
	26 Endrin Aldehyde	6.449	6.447	0.002	13013206	0.13948	0.139(a)
	27 Methoxychlor	6.585	6.603	-0.018	40813814	0.72125	0.721(a)
	29 Endosulfan Sulfate	Compound Not Detected.					

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Data File: /chem1/SVOA/GC_41.i/170313.b/a17031316.d
Report Date: 13-Mar-2017 14:14

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)
	30 Endrin Ketone	7.128	7.128	0.000	374640163	3.08025	3.080(a)
T	31 Decachlorobiphenyl	8.035	8.035	0.000	8770744780	89.4821	89.482
M	32 Chlordane	Compound Not Detected.					
	33 CHLD (1)	Compound Not Detected.					
	34 CHLD (2)	Compound Not Detected.					
	35 CHLD (3)	Compound Not Detected.					
	36 CHLD (4)	Compound Not Detected.					
	37 CHLD (5)	Compound Not Detected.					
M	38 Toxaphene	Compound Not Detected.					
	39 TOXAPHENE (1)	Compound Not Detected.					
	40 TOXAPHENE (2)	Compound Not Detected.					
	41 TOXAPHENE (3)	Compound Not Detected.					
	42 TOXAPHENE (4)	Compound Not Detected.					
	43 TOXAPHENE (5)	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

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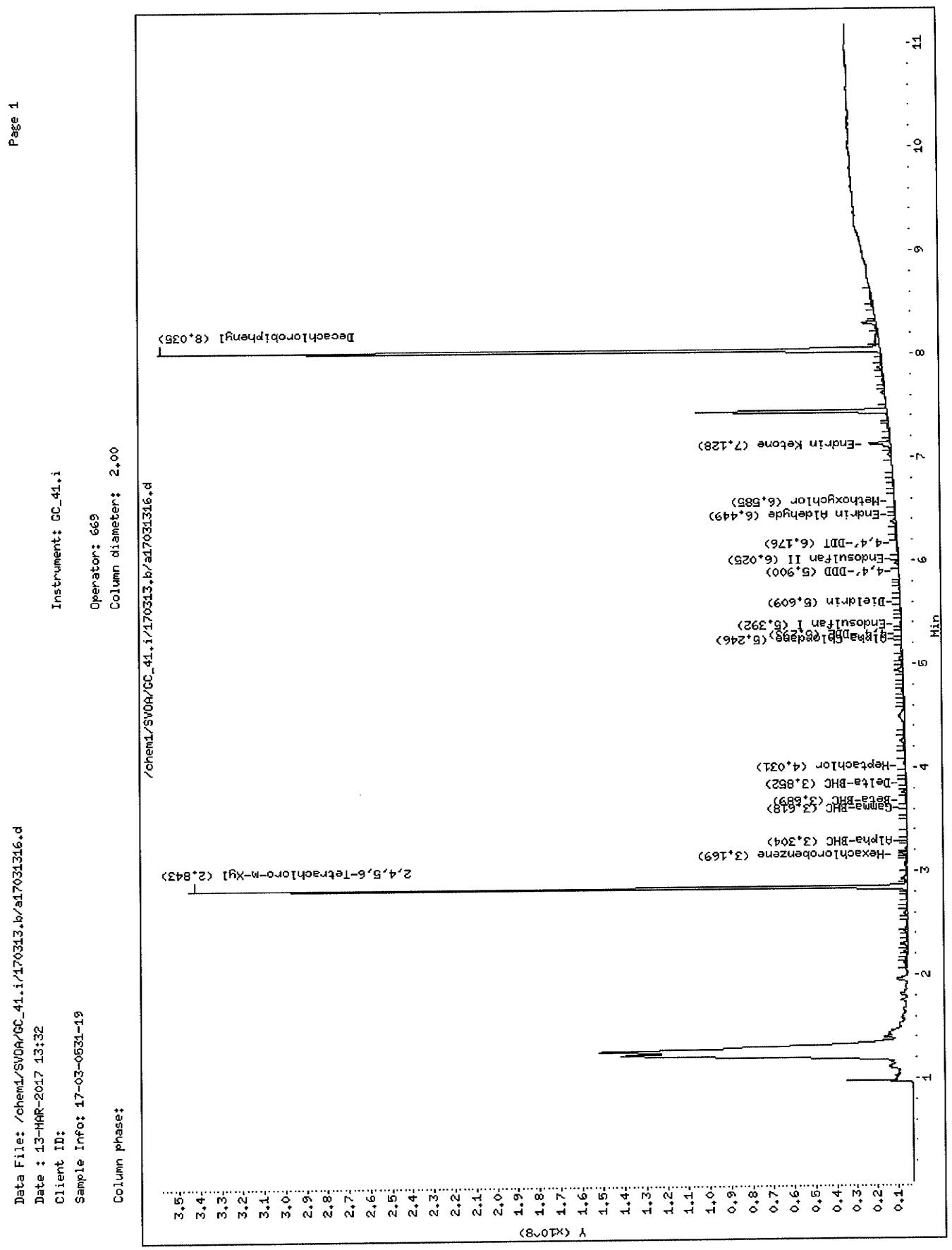

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Data File: /chem1/SVOA/GC_41.i/170313.b/b17031316.d
Report Date: 13-Mar-2017 14:14

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170313.b/b17031316.d
Lab Smp Id:
Inj Date : 13-MAR-2017 13:32
Operator : 669 Inst ID: GC_41.i
Smp Info : 17-03-0531-19
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170313.b/b8081d.m
Meth Date : 13-Mar-2017 11:38 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: b17020224.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: regpest.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
$ 1	2,4,5,6-Tetrachloro-m-Xylene	2.736	2.732	0.004	6047797457	61.3601	61.360
2	Hexachlorobenzene	3.123	3.117	0.006	3801007	0.03140	0.031(a)
3	Alpha-BHC	3.242	3.234	0.008	4956344	0.02944	0.029(a)
4	Gamma-BHC	3.537	3.555	-0.018	14157045	0.09396	0.093(a)
5	Beta-BHC	3.610	3.624	-0.014	39621343	0.65090	0.650(a)
6	Delta-BHC	Compound Not Detected.					
7	Heptachlor	Compound Not Detected.					
8	Aldrin	4.294	4.310	-0.016	2248875	0.01649	0.016(a)
11	Heptachlor Epoxide	4.893	4.889	0.004	5616549	0.04786	0.047(a)
13	Gamma Chlordane	5.080	5.077	0.003	35864140	0.28922	0.289(a)
15	Alpha Chlordane	5.241	5.223	0.018	4001385	0.03359	0.033(a)
16	Endosulfan I	Compound Not Detected.					
17	4,4'-DDE	Compound Not Detected.					
18	Dieldrin	5.544	5.555	-0.011	8472952	0.07201	0.072(a)
20	Endrin	5.874	5.854	0.020	21063311	0.21746	0.217(a)
23	4,4'-DDD	5.965	5.955	0.010	35090241	0.34861	0.348(a)
24	Endosulfan II	6.068	6.059	0.009	5791146	0.06687	0.066(a)
25	4,4'-DDT	6.282	6.256	0.026	28787629	0.29351	0.293(a)
26	Endrin Aldehyde	6.394	6.382	0.012	95716920	1.07577	1.075(a)
27	Endosulfan Sulfate	6.642	6.645	-0.003	3237350	0.03345	0.033(a)
29	Methoxychlor	Compound Not Detected.					

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Data File: /chem1/SVOA/GC_41.i/170313.b/b17031316.d
Report Date: 13-Mar-2017 14:14

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)
	30 Endrin Ketone	7.142	7.148	-0.006	33730458	0.29345	0.293(a)
$	31 Decachlorobiphenyl	8.257	8.256	0.001	7101086206	75.0146	75.014
M	32 Chlordane	Compound Not Detected.					
	33 CHLD (1)	Compound Not Detected.					
	34 CHLD (2)	Compound Not Detected.					
	35 CHLD (3)	Compound Not Detected.					
	36 CHLD (4)	Compound Not Detected.					
	37 CHLD (5)	Compound Not Detected.					
M	38 Toxaphene	Compound Not Detected.					
	39 TOXAPHENE (1)	Compound Not Detected.					
	40 TOXAPHENE (2)	Compound Not Detected.					
	41 TOXAPHENE (3)	Compound Not Detected.					
	42 TOXAPHENE (4)	Compound Not Detected.					
	43 TOXAPHENE (5)	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

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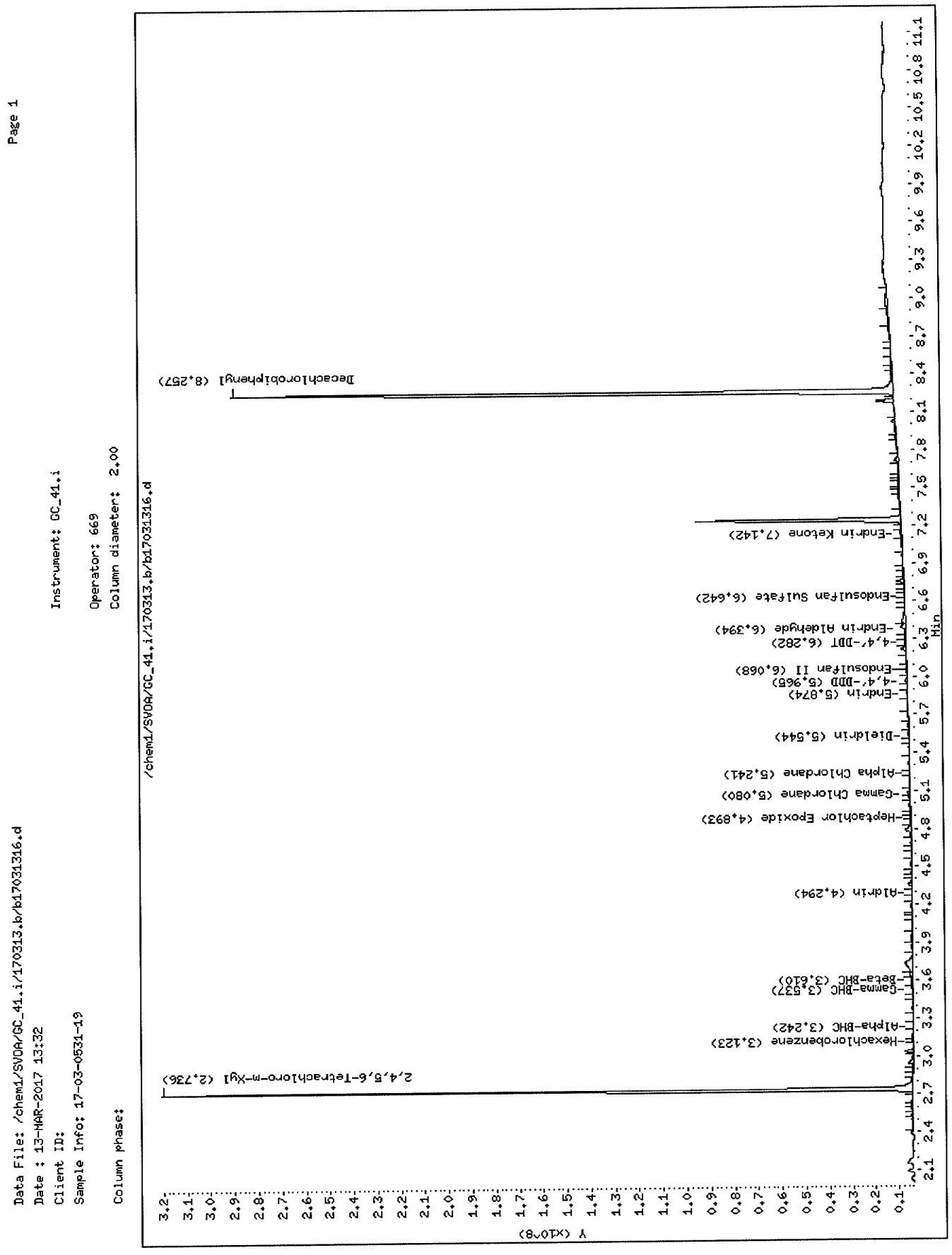

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RAW DATA SHEET
FOR METHOD: EPA 8081A

WORK ORDER: **17-03-0531**
INSTRUMENT: GC 41
EXTRACTION : EPA 3545
D/T EXTRACTED: 2017-03-09 00:00

ANALYZED BY: 669
D/T ANALYZED: 2017-03-13 13:47
REVIEWED BY: 27
D/T REVIEWED: 2017-03-16 15:49

DATA FILE: /chem1/SVOA/GC_41/170313/a1703131717031317

26 **CLIENT SAMPLE NUMBER:** **D-DU1-S-10-1**

LCS/MB BATCH: 170309L07
MS/MSD BATCH: 170309S07
UNITS: ug/kg

SAMPLE VOLUME / WEIGHT: DEFAULT: 20.00 g / ACTUAL: 20.10 g
FINAL VOLUME / WEIGHT: DEFAULT: 10.00 ml / ACTUAL: 10.00 ml
ADJUSTMENT RATIO TO PF: 1.00

COMMENT:

COMPOUND NAME	ON COL CONC	CONC	DF	RL	QUAL	RPD	TYPE	CONF CONC
Aldrin	0.000	ND	1.00	5.0			2	ND
Alpha-BHC	0.000	ND	1.00	10			2	ND
Beta-BHC	0.000	ND	1.00	5.0			2	ND
Chlordane	0.000	ND	1.00	50			2	ND
4,4'-DDD	0.000	ND	1.00	5.0			2	ND
4,4'-DDE	0.000	ND	1.00	5.0			2	ND
4,4'-DDT	12.4	6.17	1.00	5.0	Y	62%	2	11.7
Delta-BHC	0.000	ND	1.00	10			2	ND
Dieldrin	0.000	ND	1.00	5.0			2	ND
Endosulfan I	0.000	ND	1.00	5.0			2	ND
Endosulfan II	0.000	ND	1.00	5.0			2	ND
Endosulfan Sulfate	0.000	ND	1.00	5.0			2	ND
Endrin	0.000	ND	1.00	5.0			2	ND
Endrin Aldehyde	0.000	ND	1.00	5.0			2	ND
Endrin Ketone	0.000	ND	1.00	5.0			2	ND
Gamma-BHC	0.000	ND	1.00	5.0			2	ND
Heptachlor	0.000	ND	1.00	5.0			2	ND
Heptachlor Epoxide	0.000	ND	1.00	10			2	ND
Methoxychlor	0.000	ND	1.00	5.0			2	ND
Toxaphene	0.000	ND	1.00	100			2	ND

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Data File: /chem1/SVOA/GC_41.i/170313.b/a17031317.d
Report Date: 13-Mar-2017 14:15

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170313.b/a17031317.d
Lab Smp Id:
Inj Date : 13-MAR-2017 13:47
Operator : 669 Inst ID: GC_41.i
Smp Info : 17-03-0531-26
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170313.b/a8081d.m
Meth Date : 13-Mar-2017 11:37 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: a17020224.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: regpest.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

						CONCENTRATIONS	
						ON-COLUMN	FINAL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppb)	(ppb)
T	1 2,4,5,6-Tetrachloro-m-Xylene	2.844	2.840	0.004	7626120258	71.6701	71.670
	2 Hexachlorobenzene	Compound Not Detected.					
	3 Alpha-BHC	Compound Not Detected.					
	4 Gamma-BHC	Compound Not Detected.					
	5 Beta-BHC	Compound Not Detected.					
	6 Delta-BHC	Compound Not Detected.					
	7 Heptachlor	Compound Not Detected.					
	8 Aldrin	Compound Not Detected.					
	12 Heptachlor Epoxide	Compound Not Detected.					
	13 Gamma Chlordane	Compound Not Detected.					
	15 Alpha Chlordane	Compound Not Detected.					
	16 4,4'-DDE	Compound Not Detected.					
	17 Endosulfan I	Compound Not Detected.					
	19 Dieldrin	Compound Not Detected.					
	21 Endrin	Compound Not Detected.					
	23 4,4'-DDD	Compound Not Detected.					
	24 Endosulfan II	Compound Not Detected.					
	25 4,4'-DDT	6.141	6.150	-0.009	1320295528	12.4071	12.407(M)
	26 Endrin Aldehyde	Compound Not Detected.					
	27 Methoxychlor	Compound Not Detected.					
	29 Endosulfan Sulfate	Compound Not Detected.					

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Data File: /chem1/SVOA/GC_41.i/170313.b/a17031317.d
Report Date: 13-Mar-2017 14:15

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)
	30 Endrin Ketone	Compound Not Detected.					
T	31 Decachlorobiphenyl	8.044	8.035	0.009	15736114476	160.545	160.545(R)
M	32 Chlordane	Compound Not Detected.					
	33 CHLD (1)	Compound Not Detected.					
	34 CHLD (2)	Compound Not Detected.					
	35 CHLD (3)	Compound Not Detected.					
	36 CHLD (4)	Compound Not Detected.					
	37 CHLD (5)	Compound Not Detected.					
M	38 Toxaphene	Compound Not Detected.					
	39 TOXAPHENE (1)	Compound Not Detected.					
	40 TOXAPHENE (2)	Compound Not Detected.					
	41 TOXAPHENE (3)	Compound Not Detected.					
	42 TOXAPHENE (4)	Compound Not Detected.					
	43 TOXAPHENE (5)	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

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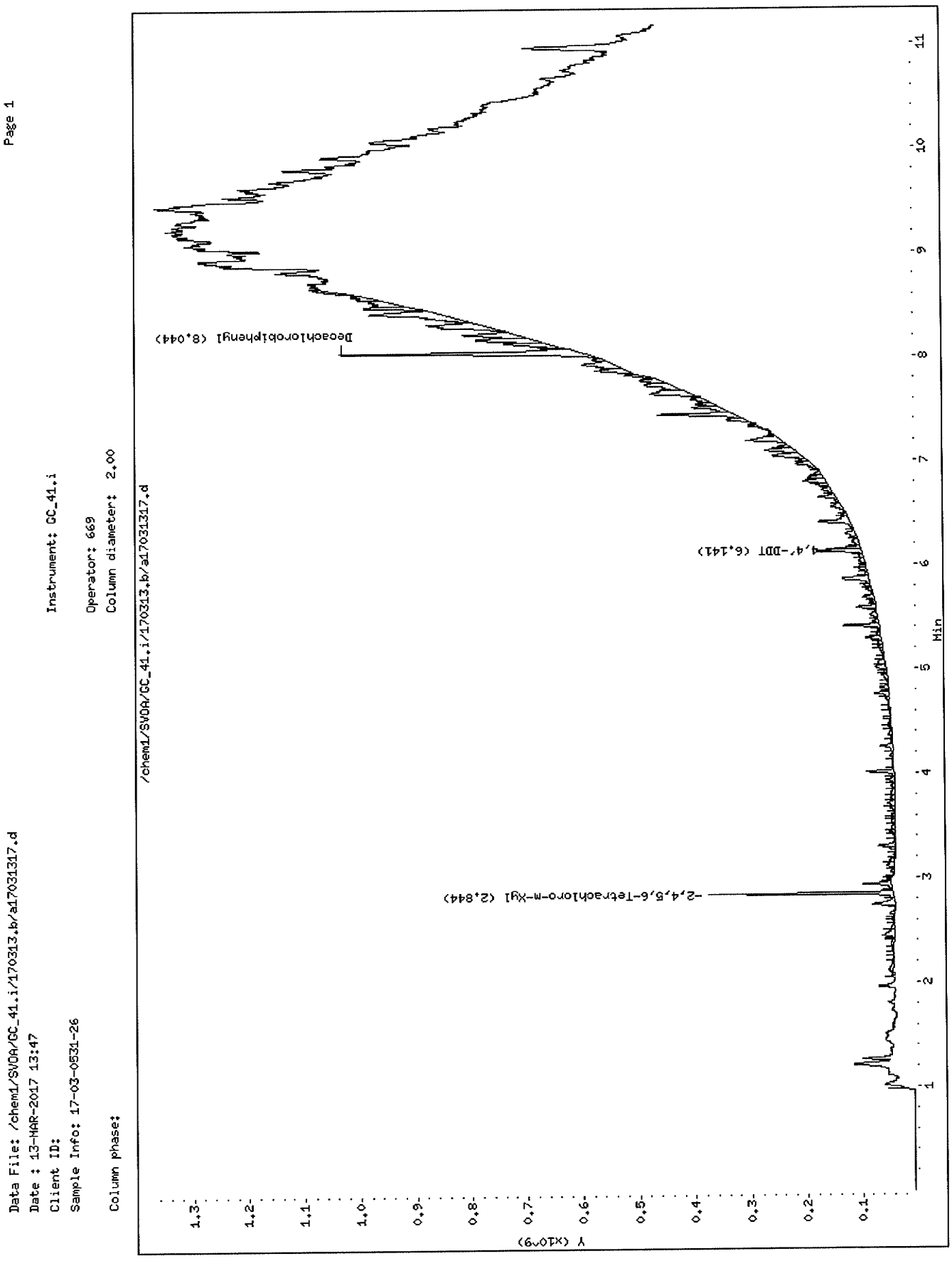

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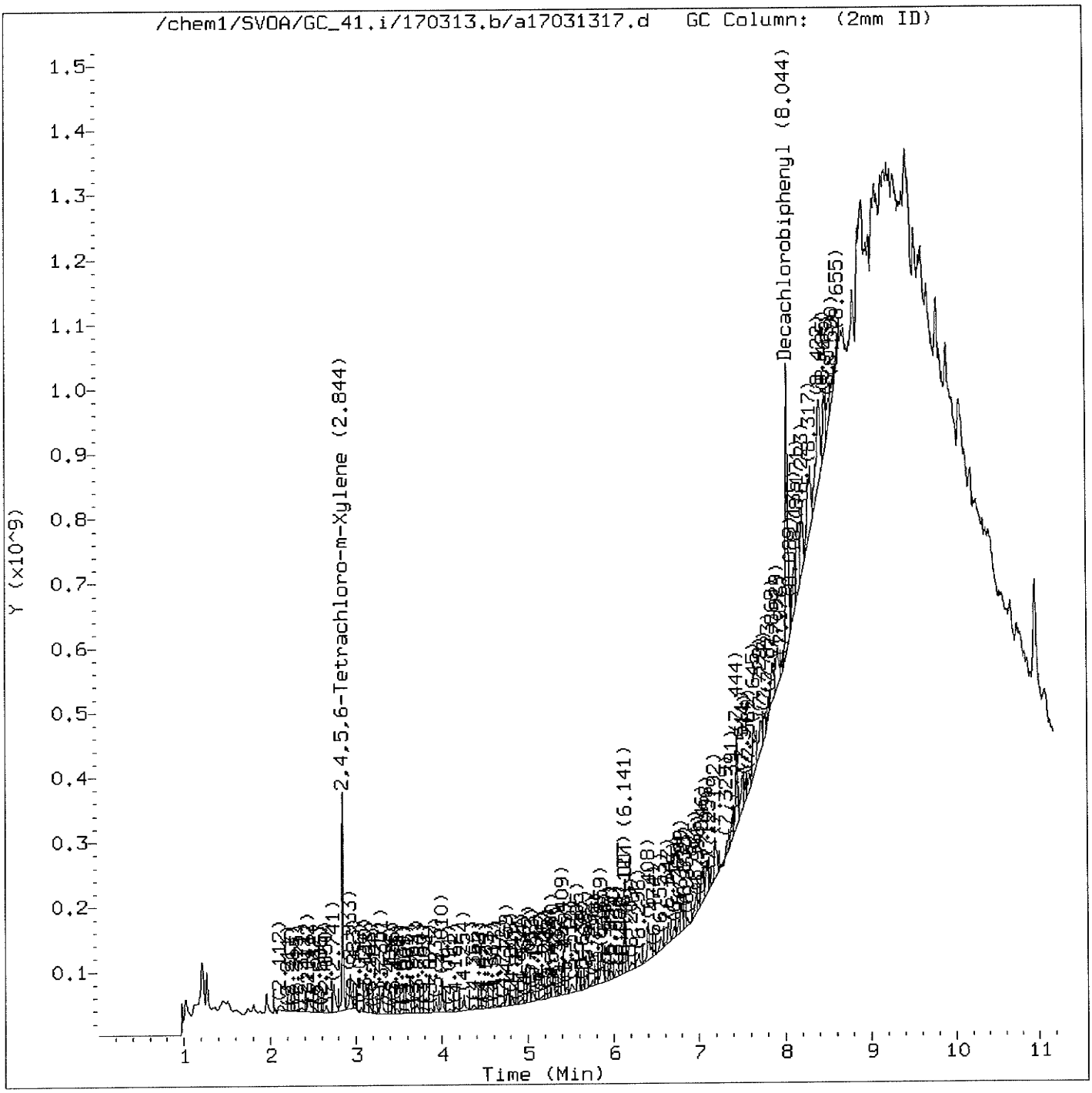
Manually Integrated Data File



Reason for manual integration: Signal not integrated by automation

Analyst responsible for change: Digitally signed by Hong-Hanh Nguyen on 03/13/2017 at 14:15. Target 3.5 esignature user ID: uhhn

Audit/management approval:_____

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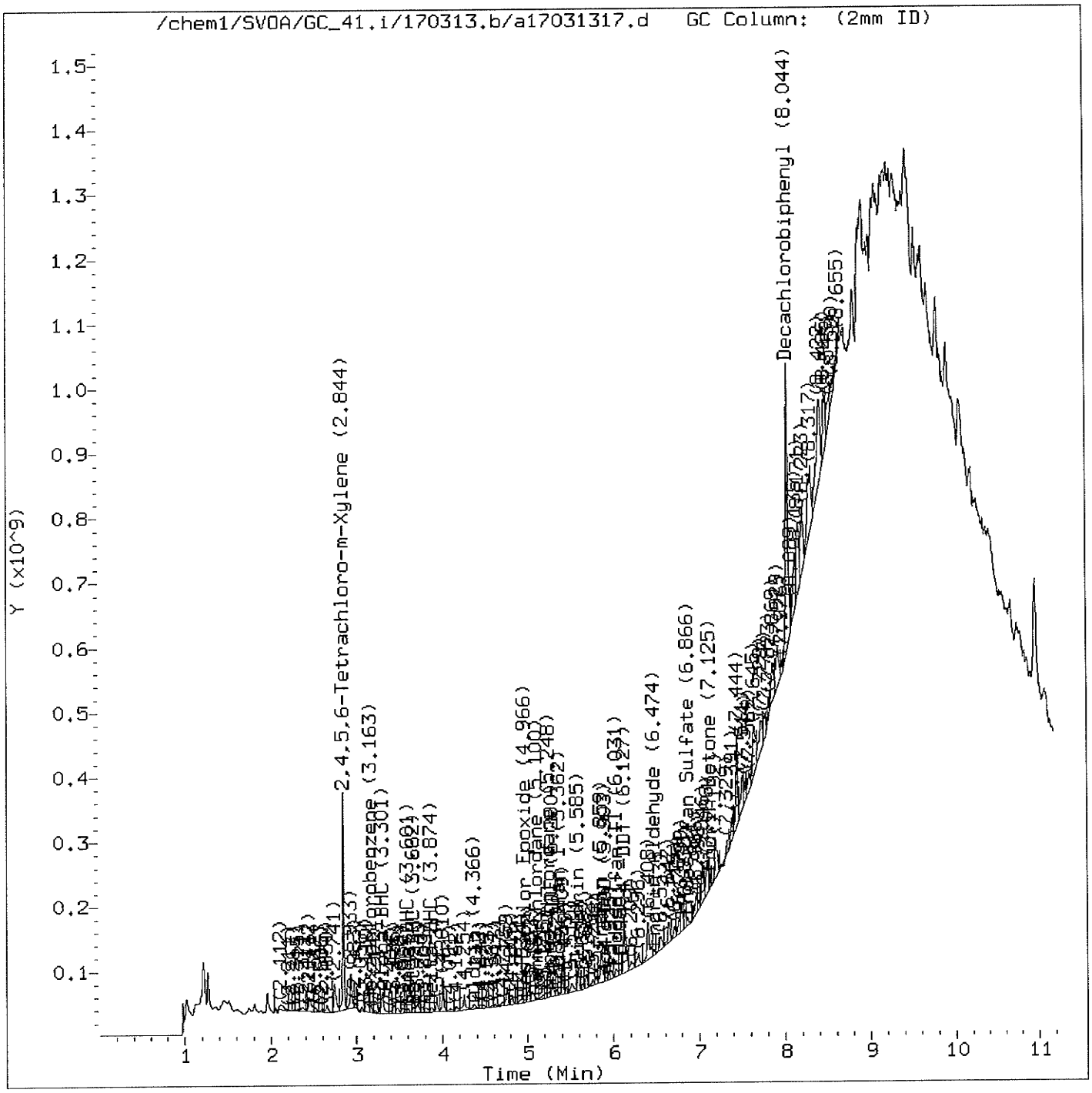
Original Data File



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Data File: /chem1/SVOA/GC_41.i/170313.b/b17031317.d
Report Date: 13-Mar-2017 14:14

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170313.b/b17031317.d
Lab Smp Id:
Inj Date : 13-MAR-2017 13:47
Operator : 669 Inst ID: GC_41.i
Smp Info : 17-03-0531-26
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170313.b/b8081d.m
Meth Date : 13-Mar-2017 11:38 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: b17020224.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: regpest.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)
$	1 2,4,5,6-Tetrachloro-m-Xylene	2.737	2.732	0.005	6766894865	68.6560	68.655
	2 Hexachlorobenzene	3.118	3.117	0.001	137523874	1.13619	1.136(a)
	3 Alpha-BHC	3.219	3.234	-0.015	207785892	1.23415	1.234(a)
	4 Gamma-BHC	3.549	3.555	-0.006	791003591	5.24968	5.249(a)
	5 Beta-BHC	Compound Not Detected.					
	6 Delta-BHC	3.937	3.910	0.027	1213252958	8.30275	8.302(a)
	7 Heptachlor	3.992	3.979	0.013	175257308	1.18311	1.183(a)
	8 Aldrin	4.325	4.310	0.015	270909234	1.98706	1.987(a)
	11 Heptachlor Epoxide	4.882	4.889	-0.007	761196964	6.48599	6.485(a)
	13 Gamma Chlordane	5.075	5.077	-0.002	887023552	7.15327	7.153(a)
	15 Alpha Chlordane	5.225	5.223	0.002	71785530	0.60267	0.602(a)
	16 Endosulfan I	5.270	5.284	-0.014	302460416	2.88674	2.886(a)
	17 4,4'-DDE	Compound Not Detected.					
	18 Dieldrin	5.562	5.555	0.007	266838636	2.26787	2.267(aM)
	20 Endrin	5.850	5.854	-0.004	466170923	4.81280	4.812(a)
	23 4,4'-DDD	5.961	5.955	0.006	334505664	3.32325	3.323(a)
	24 Endosulfan II	6.062	6.059	0.003	1429033852	16.5020	16.501
	25 4,4'-DDT	6.261	6.256	0.005	2302288728	23.4737	23.473
	26 Endrin Aldehyde	Compound Not Detected.					
	27 Endosulfan Sulfate	6.655	6.645	0.010	715252332	7.39068	7.390(a)
	29 Methoxychlor	6.883	6.904	-0.021	1719793907	31.4506	31.450

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Data File: /chem1/SVOA/GC_41.i/170313.b/b17031317.d
Report Date: 13-Mar-2017 14:14

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)
	30 Endrin Ketone	7.125	7.148	-0.023	1079075940	9.38769	9.387(a)
$	31 Decachlorobiphenyl	8.267	8.256	0.011	11915212520	125.870	125.870(R)
M	32 Chlordane	Compound Not Detected.					
	33 CHLD (1)	Compound Not Detected.					
	34 CHLD (2)	Compound Not Detected.					
	35 CHLD (3)	Compound Not Detected.					
	36 CHLD (4)	Compound Not Detected.					
	37 CHLD (5)	Compound Not Detected.					
M	38 Toxaphene	Compound Not Detected.					
	39 TOXAPHENE (1)	Compound Not Detected.					
	40 TOXAPHENE (2)	Compound Not Detected.					
	41 TOXAPHENE (3)	Compound Not Detected.					
	42 TOXAPHENE (4)	Compound Not Detected.					
	43 TOXAPHENE (5)	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

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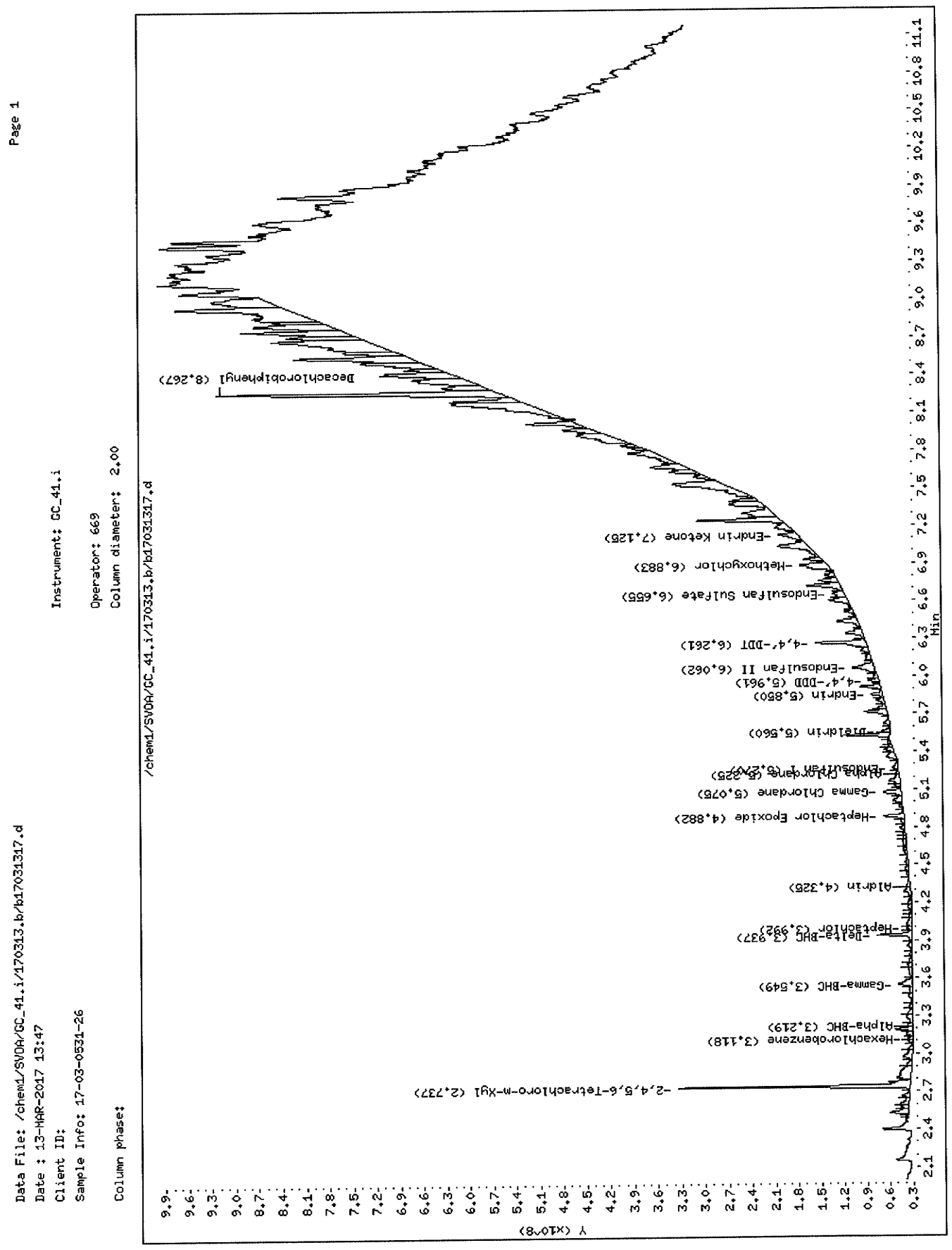

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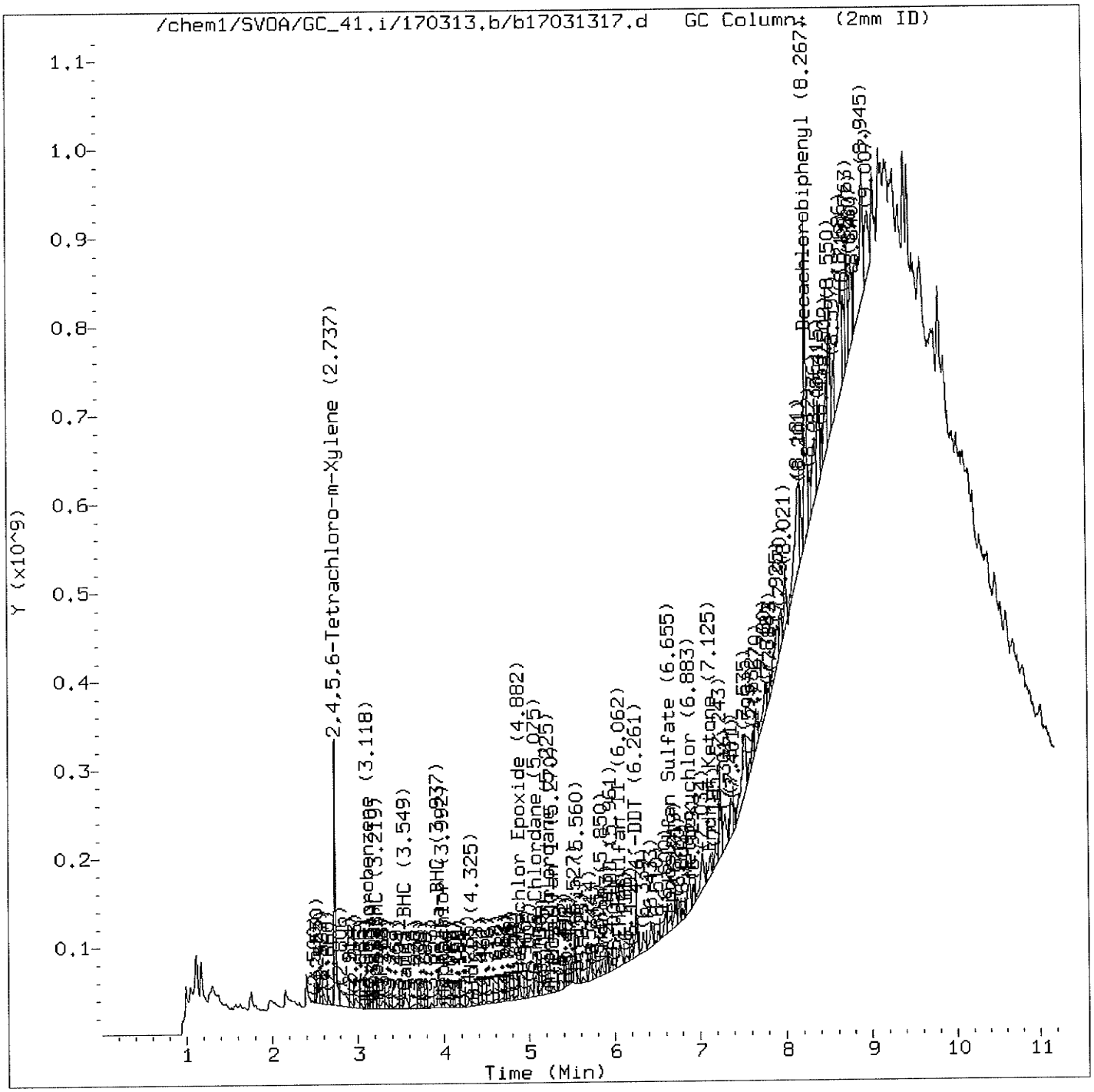
Manually Integrated Data File



Reason for manual integration: Signal not integrated by automation

Analyst responsible for change: Digitally signed by Hong-Hanh Nguyen on 03/13/2017 at 14:15. Target 3.5 esignature user ID: uhhn

Audit/management approval:_____

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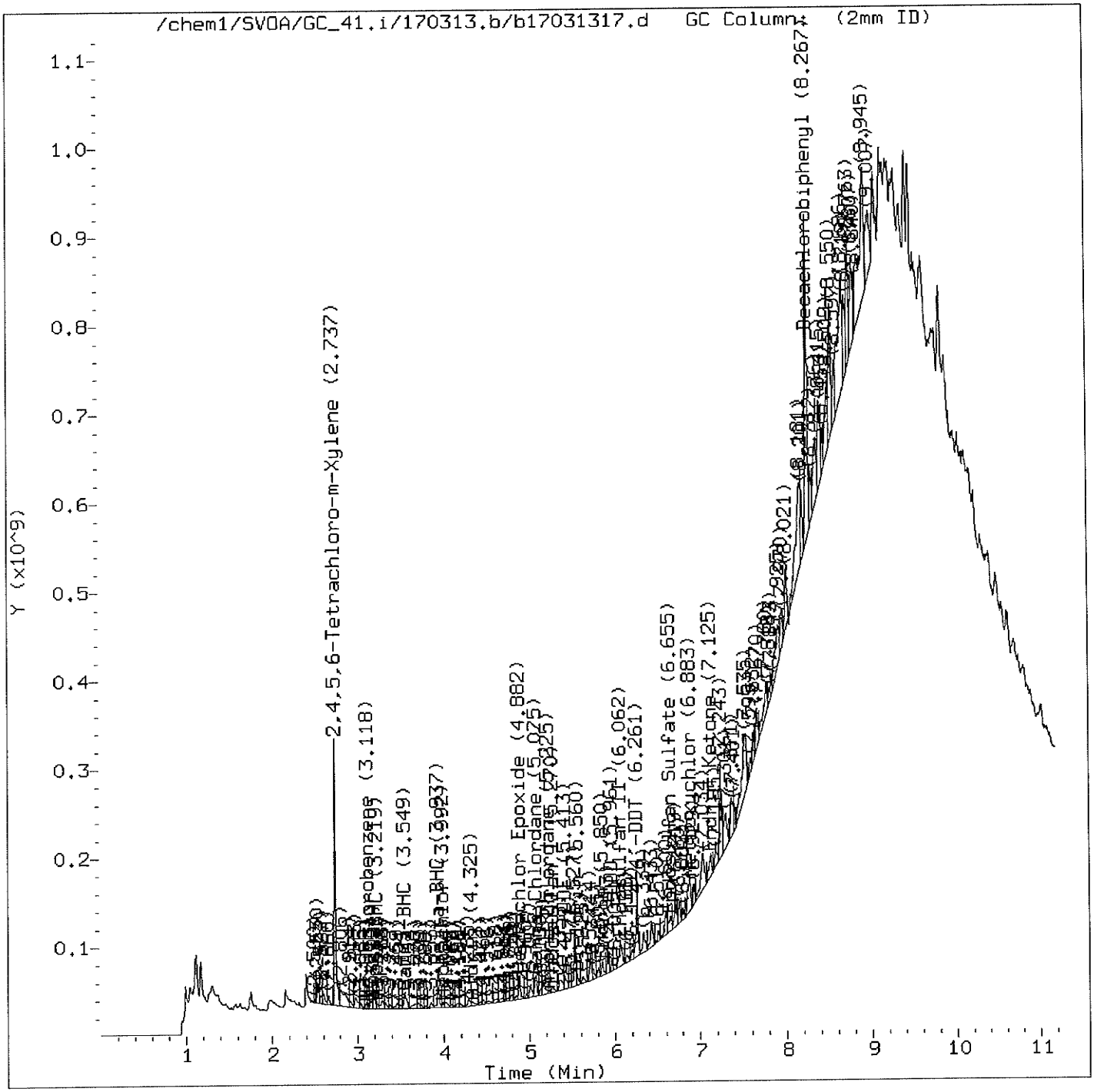
Original Data File



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EPA METHOD 8081A
Organochlorine Pesticides

Quality Control

Method Blank
LCS/LCSD
MS/MSD

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METHOD BLANK ASSOCIATION SUMMARY
FOR METHOD: EPA 8081A

MB SAMPLE ID: **099-12-537-2629**
MB BATCH ID: 170309L07
INSTRUMENT: GC 41
EXTRACTION: EPA 3545
D/T EXTRACTED: 2017-03-09 00:00

ANALYZED BY: 669
D/T ANALYZED: 2017-03-13 11:01
REVIEWED BY:
D/T REVIEWED:
MATRIX: Soil

DATA FILE: /chem1/SVOA/GC_41/170313/a1703130617031306

CLIENT WORK ORDER: **17-03-0531**

S#	RUN TYPE	CLIENT SAMPLE ID	D/T ANALYZED	DATA FILE
19		D-DU1-S-08-1	2017-03-13 13:32	/chem1/SVOA/GC_41/170313/a1703131617031316
26		D-DU1-S-10-1	2017-03-13 13:47	/chem1/SVOA/GC_41/170313/a1703131717031317

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RAW DATA SHEET
FOR METHOD: EPA 8081A

WORK ORDER: **099-12-537**
INSTRUMENT: GC 41
EXTRACTION : EPA 3545
D/T EXTRACTED: 2017-03-09 00:00

ANALYZED BY: 669
D/T ANALYZED: 2017-03-13 11:01
REVIEWED BY:
D/T REVIEWED:

DATA FILE: /chem1/SVOA/GC_41/170313/a1703130617031306

MB **CLIENT SAMPLE NUMBER:** **Method Blank**

LCS/MB BATCH: 170309L07
MS/MSD BATCH:
UNITS: ug/kg

SAMPLE VOLUME / WEIGHT: DEFAULT: 1.00 / ACTUAL: 1.00
FINAL VOLUME / WEIGHT: DEFAULT: 1.00 ml / ACTUAL: 1.00 ml
ADJUSTMENT RATIO TO PF: 1.00

COMMENT:

COMPOUND NAME	ON COL CONC	CONC	DF	RL	QUAL	RPD	TYPE	CONF CONC
Aldrin	0.000	ND	1.00	5.0			2	ND
Alpha-BHC	0.000	ND	1.00	10			2	ND
Beta-BHC	0.152	ND	1.00	5.0			2	ND
Chlordane	0.000	ND	1.00	50			2	ND
4,4'-DDD	0.0680	ND	1.00	5.0			2	ND
4,4'-DDE	0.000	ND	1.00	5.0			2	ND
4,4'-DDT	0.000	ND	1.00	5.0			2	ND
Delta-BHC	0.102	ND	1.00	10			2	ND
Dieldrin	0.000	ND	1.00	5.0			2	ND
Endosulfan I	0.107	ND	1.00	5.0			2	ND
Endosulfan II	0.144	ND	1.00	5.0			2	ND
Endosulfan Sulfate	0.0420	ND	1.00	5.0			2	ND
Endrin	0.000	ND	1.00	5.0			2	ND
Endrin Aldehyde	0.0530	ND	1.00	5.0			2	ND
Endrin Ketone	0.0160	ND	1.00	5.0			2	ND
Gamma-BHC	0.00700	ND	1.00	5.0			2	ND
Heptachlor	0.000	ND	1.00	5.0			2	ND
Heptachlor Epoxide	0.0670	ND	1.00	10			2	ND
Methoxychlor	0.000	ND	1.00	5.0			2	ND
Toxaphene	0.000	ND	1.00	100			2	ND

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LCS QUALITY CONTROL SHEET
FOR METHOD: EPA 8081A

LCS SAMPLE ID: **099-12-537-2629**
LCS/MB BATCH ID: 170309L07
INSTRUMENT: GC 41

EXTRACTION: EPA 3545
D/T EXTRACTED: 2017-03-09 00:00

ANALYZED BY: 669
D/T ANALYZED: 2017-03-13 11:16
REVIEWED BY:
D/T REVIEWED:

DATA FILE: /chem1/SVOA/GC_41/170313/a1703130717031307

COMPOUND	CONC	CONC REC	%REC	%REC CL	ME CL	STATUS	QUALIFIERS
Alpha-BHC	25.00	17.88	72	50-135	36-149	PASS	
Gamma-BHC	25.00	17.96	72	50-135	36-149	PASS	
Beta-BHC	25.00	17.83	71	50-135	36-149	PASS	
Delta-BHC	25.00	18.90	76	50-135	36-149	PASS	
Heptachlor	25.00	17.84	71	50-135	36-149	PASS	
Aldrin	25.00	18.52	74	50-135	36-149	PASS	
Heptachlor Epoxide	25.00	18.95	76	50-135	36-149	PASS	
Gamma Chlordane	25.00	18.76	75	50-135	36-149	PASS	
Alpha Chlordane	25.00	18.66	75	50-135	36-149	PASS	
4,4'-DDE	25.00	19.06	76	50-135	36-149	PASS	
Endosulfan I	25.00	21.32	85	50-135	36-149	PASS	
Dieldrin	25.00	20.86	83	50-135	36-149	PASS	
Endrin	25.00	21.35	85	50-135	36-149	PASS	
4,4'-DDD	25.00	19.84	79	50-135	36-149	PASS	
Endosulfan II	25.00	26.32	105	50-135	36-149	PASS	
4,4'-DDT	25.00	19.97	80	50-135	36-149	PASS	
Endrin Aldehyde	25.00	17.77	71	50-135	36-149	PASS	
Methoxychlor	25.00	19.40	78	50-135	36-149	PASS	
Endosulfan Sulfate	25.00	21.17	85	50-135	36-149	PASS	

Total number of LCS compounds: 19
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

Compounds listed in bold are required to be reported.

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE QUALITY CONTROL SHEET
FOR METHOD: EPA 8081A

SPIKED SAMPLE ID: **17-03-0588-1**
MS/MSD BATCH: 170309S07
INSTRUMENTS:
SAMPLE: GC 41
MS: GC 41
MSD: GC 41

EXTRACTION: EPA 3545
D/T EXTRACTED:
SAMPLE: 2017-03-09 00:00
MS: 2017-03-09 00:00
MSD: 2017-03-09 00:00

ANALYZED BY: 669
D/T ANALYZED:
SAMPLE: 2017-03-13 12:01
MS: 2017-03-13 11:31
MSD: 2017-03-13 11:46
REVIEWED BY:
D/T REVIEWED:

COMMENT:

COMPOUND NAME	SAMPLE	INITIAL	FINAL	MS CONC	% MS.REC	MSD CONC	% MSD.REC	% REC CL	RPD	RPD CL	STATUS	QUALIFIERS
Alpha-BHC	ND	50.00	25.00	17.26	69	16.75	67	50-135	3	0-25	PASS	
Gamma-BHC	ND	50.00	25.00	17.55	70	17.04	68	50-135	3	0-25	PASS	
Beta-BHC	ND	50.00	25.00	17.61	70	17.37	69	50-135	1	0-25	PASS	
Delta-BHC	ND	50.00	25.00	18.80	75	18.37	73	50-135	2	0-25	PASS	
Heptachlor	ND	50.00	25.00	17.55	70	17.30	69	50-135	1	0-25	PASS	
Aldrin	ND	50.00	25.00	18.08	72	17.33	69	50-135	4	0-25	PASS	
Heptachlor Epoxide	ND	50.00	25.00	18.91	76	18.54	74	50-135	2	0-25	PASS	
Gamma Chlordane	ND	50.00	25.00	18.13	73	17.79	71	50-135	2	0-25	PASS	Y
Alpha Chlordane	ND	50.00	25.00	18.18	73	17.60	70	50-135	3	0-25	PASS	
4,4'-DDE	13.81	50.00	25.00	34.72	84	42.76	116	50-135	21	0-25	PASS	
Endosulfan I	ND	50.00	25.00	20.45	82	19.69	79	50-135	4	0-25	PASS	
Dieldrin	ND	50.00	25.00	20.22	81	19.73	79	50-135	2	0-25	PASS	
Endrin	ND	50.00	25.00	22.41	90	21.52	86	50-135	4	0-25	PASS	
4,4'-DDD	ND	50.00	25.00	19.03	76	18.39	74	50-135	3	0-25	PASS	
Endosulfan II	ND	50.00	25.00	23.57	94	22.97	92	50-135	3	0-25	PASS	
4,4'-DDT	ND	50.00	25.00	23.51	94	25.09	100	50-135	7	0-25	PASS	
Endrin Aldehyde	ND	50.00	25.00	16.20	65	15.35	61	50-135	5	0-25	PASS	
Methoxychlor	ND	50.00	25.00	18.00	72	17.72	71	50-135	2	0-25	PASS	
Endosulfan Sulfate	ND	50.00	25.00	18.49	74	18.25	73	50-135	1	0-25	PASS	

Data Files:

TYPE	DATA FILE	DATA FILE PATH
MS	17031308	/chem1/SVOA/GC_41/170313/a17031308
MSD	17031309	/chem1/SVOA/GC_41/170313/a17031309

SURROGATE RECOVERIES FOR METHOD: EPA 8081A

WORK ORDER: 17-03-0531
BATCH ID:
LCS/MB: 170309L07
MS: 170309S07
EXTRACTION : EPA 3545

REVIEWED BY: M
D/T REVIEWED:

19 CLIENT SAMPLE NUMBER : D-DU1-S-08-1

INSTRUMENT: GC 41
D/T EXTRACTED: 2017-03-09 00:00
DATA FILE: /chem1/SVOA/GC_41/170313/a1703131617031316

ANALYZED BY: 669
D/T ANALYZED 2017-03-13 13:32

COMMENT:

COMPOUND	% REC	% REC CL	STATUS	QUALIFIERS
2,4,5,6-Tetrachloro-m-Xylene	64	25-145	PASS	
Decachlorobiphenyl	89	24-168	PASS	

26 CLIENT SAMPLE NUMBER : D-DU1-S-10-1

INSTRUMENT: GC 41
D/T EXTRACTED: 2017-03-09 00:00
DATA FILE: /chem1/SVOA/GC_41/170313/a1703131717031317

ANALYZED BY: 669
D/T ANALYZED 2017-03-13 13:47

COMMENT:

COMPOUND	% REC	% REC CL	STATUS	QUALIFIERS
2,4,5,6-Tetrachloro-m-Xylene	72	25-145	PASS	
Decachlorobiphenyl	161	24-168	PASS	

MB CLIENT SAMPLE NUMBER : Method Blank

INSTRUMENT: GC 41
D/T EXTRACTED: 2017-03-09 00:00
DATA FILE: /chem1/SVOA/GC_41/170313/a1703130617031306

ANALYZED BY: 669
D/T ANALYZED 2017-03-13 11:01

COMMENT:

COMPOUND	% REC	% REC CL	STATUS	QUALIFIERS
2,4,5,6-Tetrachloro-m-Xylene	77	25-145	PASS	
Decachlorobiphenyl	84	24-168	PASS	

LCS CLIENT SAMPLE NUMBER : Lab Control Sample

INSTRUMENT: GC 41
D/T EXTRACTED: 2017-03-09 00:00
DATA FILE: /chem1/SVOA/GC_41/170313/a1703130717031307

ANALYZED BY: 669
D/T ANALYZED 2017-03-13 11:16

COMMENT:

COMPOUND	% REC	% REC CL	STATUS	QUALIFIERS
2,4,5,6-Tetrachloro-m-Xylene	77	25-145	PASS	
Decachlorobiphenyl	87	24-168	PASS	

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SURROGATE RECOVERIES FOR METHOD: EPA 8081A

WORK ORDER: 17-03-0531
BATCH ID:
LCS/MB:
MS: **170309S07**
EXTRACTION : EPA 3545

REVIEWED BY:
D/T REVIEWED:

 # MS **CLIENT SAMPLE NUMBER : Matrix Spike**

INSTRUMENT: GC 41
D/T EXTRACTED: 2017-03-09 00:00
DATA FILE: /chem1/SVOA/GC_41/170313/a1703130817031308

ANALYZED BY: 669
D/T ANALYZED 2017-03-13 11:31

COMMENT:

COMPOUND	% REC	% REC CL	STATUS	QUALIFIERS
2,4,5,6-Tetrachloro-m-Xylene	66	25-145	PASS	
Decachlorobiphenyl	85	24-168	PASS	

 # MSD **CLIENT SAMPLE NUMBER : Matrix Spike Duplicate**

INSTRUMENT: GC 41
D/T EXTRACTED: 2017-03-09 00:00
DATA FILE: /chem1/SVOA/GC_41/170313/a1703130917031309

ANALYZED BY: 669
D/T ANALYZED 2017-03-13 11:46

COMMENT:

COMPOUND	% REC	% REC CL	STATUS	QUALIFIERS
2,4,5,6-Tetrachloro-m-Xylene	64	25-145	PASS	
Decachlorobiphenyl	87	24-168	PASS	

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Data File: /chem1/SVOA/GC_41.i/170313.b/a17031306.d
Report Date: 13-Mar-2017 12:22

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170313.b/a17031306.d
Lab Smp Id:
Inj Date : 13-MAR-2017 11:01
Operator : 669 Inst ID: GC_41.i
Smp Info : MB 170309L07
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170313.b/a8081d.m
Meth Date : 13-Mar-2017 11:37 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: a17020224.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: regpest.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

						CONCENTRATIONS	
						ON-COLUMN	FINAL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppb)	(ppb)
T	1 2,4,5,6-Tetrachloro-m-Xylene	2.840	2.840	0.000	8195194381	77.0183	77.018
	2 Hexachlorobenzene	3.166	3.169	-0.003	119420298	0.82820	0.828(a)
	3 Alpha-BHC	Compound Not Detected.					
	4 Gamma-BHC	3.626	3.598	0.028	1259985	0.00788	0.007(a)
	5 Beta-BHC	3.693	3.669	0.024	9723600	0.15277	0.152(a)
	6 Delta-BHC	3.822	3.846	-0.024	15834617	0.10278	0.102(a)
	7 Heptachlor	Compound Not Detected.					
	8 Aldrin	Compound Not Detected.					
	12 Heptachlor Epoxide	4.963	4.970	-0.007	8470599	0.06756	0.067(a)
	13 Gamma Chlordane	Compound Not Detected.					
	15 Alpha Chlordane	Compound Not Detected.					
	16 4,4'-DDE	Compound Not Detected.					
	17 Endosulfan I	5.389	5.368	0.021	11773629	0.10729	0.107(a)
	19 Dieldrin	Compound Not Detected.					
	21 Endrin	Compound Not Detected.					
	23 4,4'-DDD	5.884	5.880	0.004	7070884	0.06861	0.068(a)
	24 Endosulfan II	6.021	6.048	-0.027	12699309	0.14452	0.144(a)
	25 4,4'-DDT	Compound Not Detected.					
	26 Endrin Aldehyde	6.449	6.447	0.002	4996875	0.05356	0.053(a)
	27 Methoxychlor	Compound Not Detected.					
	29 Endosulfan Sulfate	6.856	6.858	-0.002	4280212	0.04274	0.042(a)

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Data File: /chem1/SVOA/GC_41.i/170313.b/a17031306.d
Report Date: 13-Mar-2017 12:22

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)
	30 Endrin Ketone	7.134	7.128	0.006	1994083	0.01640	0.016(a)
T	31 Decachlorobiphenyl	8.035	8.035	0.000	8259528541	84.2665	84.266
M	32 Chlordane	Compound Not Detected.					
	33 CHLD (1)	Compound Not Detected.					
	34 CHLD (2)	Compound Not Detected.					
	35 CHLD (3)	Compound Not Detected.					
	36 CHLD (4)	Compound Not Detected.					
	37 CHLD (5)	Compound Not Detected.					
M	38 Toxaphene	Compound Not Detected.					
	39 TOXAPHENE (1)	Compound Not Detected.					
	40 TOXAPHENE (2)	Compound Not Detected.					
	41 TOXAPHENE (3)	Compound Not Detected.					
	42 TOXAPHENE (4)	Compound Not Detected.					
	43 TOXAPHENE (5)	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

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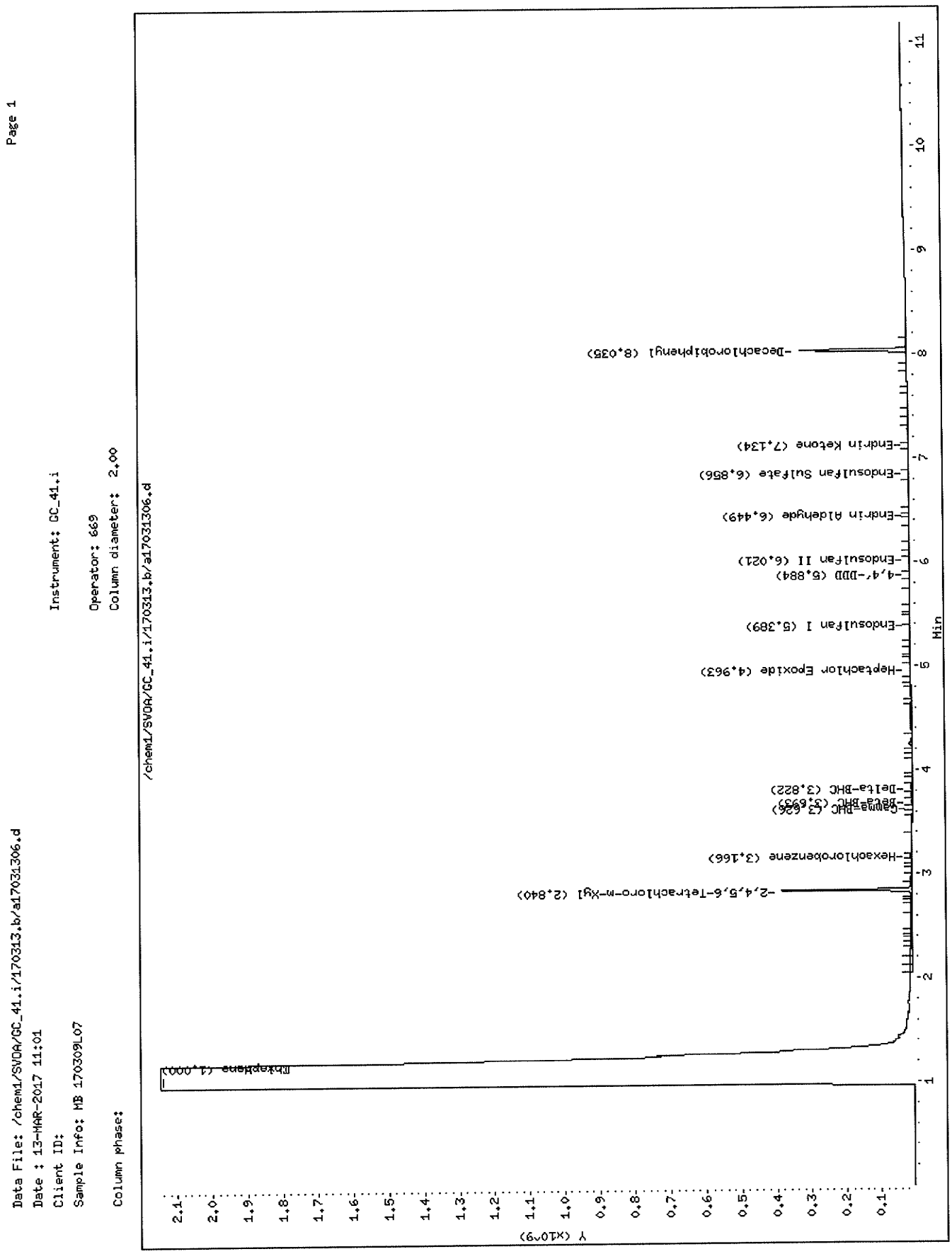

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Data File: /chem1/SVOA/GC_41.i/170313.b/b17031306.d
Report Date: 13-Mar-2017 11:39

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170313.b/b17031306.d
Lab Smp Id:
Inj Date : 13-MAR-2017 11:01
Operator : 669 Inst ID: GC_41.i
Smp Info : MB 170309L07
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170313.b/b8081d.m
Meth Date : 13-Mar-2017 11:38 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: b17020224.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: regpest.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)
$ 1	2,4,5,6-Tetrachloro-m-Xylene	2.733	2.732	0.001	6848396150	69.4829	69.482
2	Hexachlorobenzene	3.120	3.117	0.003	48611703	0.40162	0.401(a)
3	Alpha-BHC	3.242	3.234	0.008	3974943	0.02361	0.023(a)
4	Gamma-BHC	3.532	3.555	-0.023	1543341	0.01024	0.010(a)
5	Beta-BHC	3.626	3.624	0.002	2642511	0.04341	0.043(a)
6	Delta-BHC	3.914	3.910	0.004	4782774	0.03273	0.032(a)
7	Heptachlor	Compound Not Detected.					
8	Aldrin	4.319	4.310	0.009	96832	0.00071	0.000(a)
11	Heptachlor Epoxide	4.869	4.889	-0.020	3625177	0.03089	0.030(a)
13	Gamma Chlordane	5.077	5.077	0.000	106325968	0.85745	0.857(a)
15	Alpha Chlordane	Compound Not Detected.					
16	Endosulfan I	5.266	5.284	-0.018	1649286	0.01574	0.015(a)
17	4,4'-DDE	5.389	5.386	0.003	1583446	0.01343	0.013(a)
18	Dieldrin	5.553	5.555	-0.002	3483930	0.02961	0.029(a)
20	Endrin	5.883	5.854	0.029	6705074	0.06922	0.069(a)
23	4,4'-DDD	5.944	5.955	-0.011	18300432	0.18181	0.181(a)
24	Endosulfan II	6.056	6.059	-0.003	3778887	0.04364	0.043(a)
25	4,4'-DDT	6.260	6.256	0.004	1958178	0.01997	0.019(a)
26	Endrin Aldehyde	6.394	6.382	0.012	38422996	0.43184	0.431(a)
27	Endosulfan Sulfate	6.646	6.645	0.001	2543495	0.02628	0.026(a)
29	Methoxychlor	6.905	6.904	0.001	639677	0.01170	0.011(a)

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Data File: /chem1/SVOA/GC_41.i/170313.b/b17031306.d
Report Date: 13-Mar-2017 11:39

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)
	30 Endrin Ketone	7.138	7.148	-0.010	12129438	0.10552	0.105(a)
$	31 Decachlorobiphenyl	8.256	8.256	0.000	7016154185	74.1174	74.117
M	32 Chlordane	Compound Not Detected.					
	33 CHLD (1)	Compound Not Detected.					
	34 CHLD (2)	Compound Not Detected.					
	35 CHLD (3)	Compound Not Detected.					
	36 CHLD (4)	Compound Not Detected.					
	37 CHLD (5)	Compound Not Detected.					
M	38 Toxaphene	Compound Not Detected.					
	39 TOXAPHENE (1)	Compound Not Detected.					
	40 TOXAPHENE (2)	Compound Not Detected.					
	41 TOXAPHENE (3)	Compound Not Detected.					
	42 TOXAPHENE (4)	Compound Not Detected.					
	43 TOXAPHENE (5)	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

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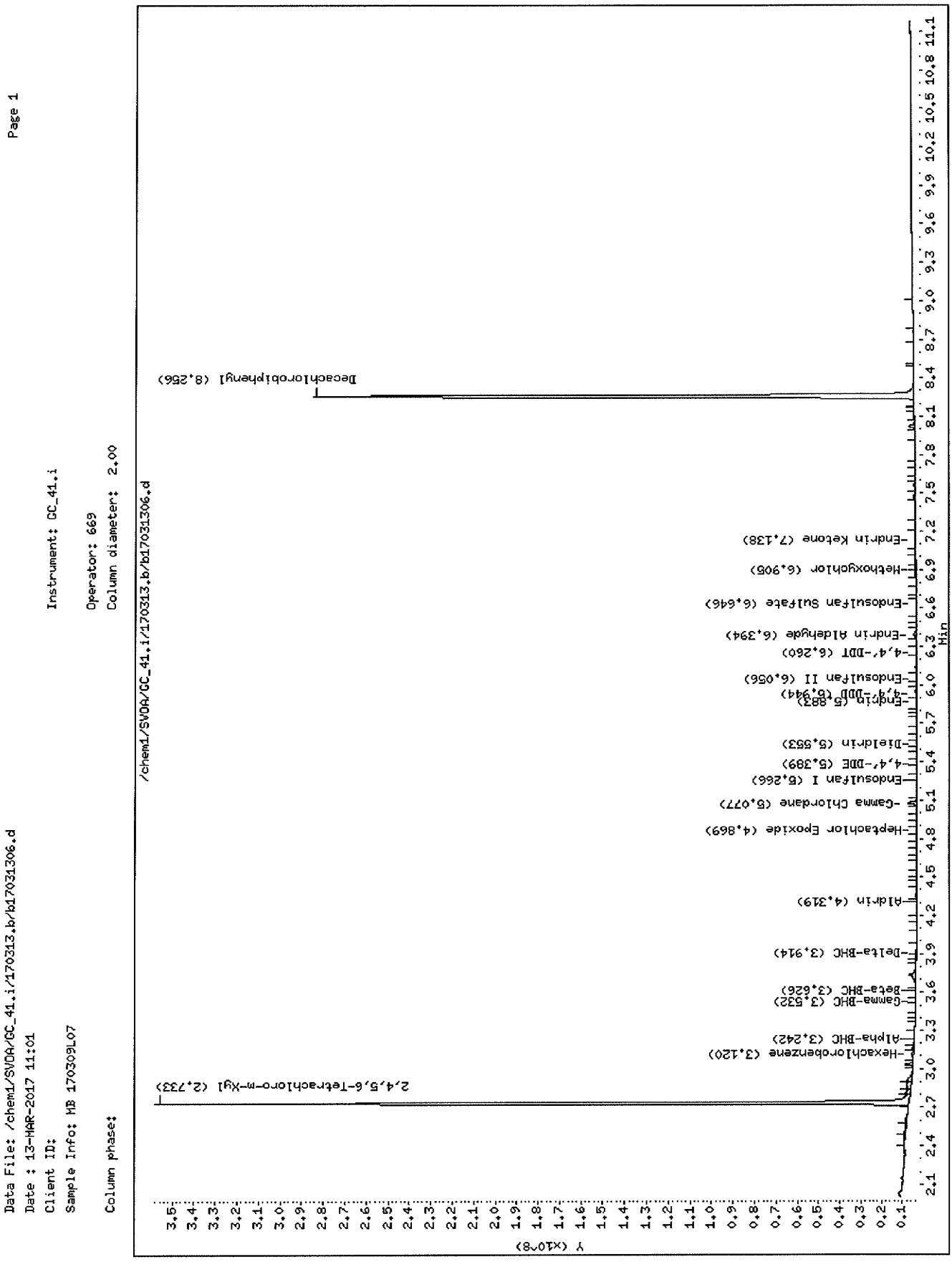

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Data File: /chem1/SVOA/GC_41.i/170313.b/a17031307.d Page 1
Report Date: 13-Mar-2017 12:21

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170313.b/a17031307.d
Lab Smp Id:
Inj Date : 13-MAR-2017 11:16
Operator : 669 Inst ID: GC_41.i
Smp Info : LCS 170309L07
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170313.b/a8081d.m
Meth Date : 13-Mar-2017 11:37 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: a17020224.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PEST.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

						CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
Compounds		RT	EXP RT	DLT RT	RESPONSE		
T	1 2,4,5,6-Tetrachloro-m-Xylene	2.841	2.840	0.001	8170737508	76.7884	76.788
	2 Hexachlorobenzene	3.170	3.169	0.001	5299649619	36.7538	36.753
	3 Alpha-BHC	3.312	3.311	0.001	6345150093	35.7622	35.762
	4 Gamma-BHC	3.599	3.598	0.001	5744495259	35.9261	35.926
	5 Beta-BHC	3.670	3.669	0.001	2269782903	35.6604	35.660
	6 Delta-BHC	3.847	3.846	0.001	5822833408	37.7940	37.794
	7 Heptachlor	4.059	4.058	0.001	5706428096	35.6785	35.678
	8 Aldrin	4.366	4.366	0.000	5290667746	37.0471	37.047
	12 Heptachlor Epoxide	4.971	4.970	0.001	4751790252	37.8995	37.899
	13 Gamma Chlordane	5.096	5.096	0.000	4926163402	37.5263	37.526
	15 Alpha Chlordane	5.228	5.227	0.001	4682394819	37.3180	37.317
	16 4,4'-DDE	5.293	5.293	0.000	4728078149	38.1220	38.122
	17 Endosulfan I	5.368	5.368	0.000	4678840659	42.6385	42.638
	19 Dieldrin	5.602	5.602	0.000	5125491040	41.7168	41.716
	21 Endrin	5.832	5.832	0.000	4414922014	42.6953	42.695
	23 4,4'-DDD	5.880	5.880	0.000	4088695837	39.6708	39.670
	24 Endosulfan II	6.048	6.048	0.000	4625374679	52.6372	52.637
	25 4,4'-DDT	6.150	6.150	0.000	4249730456	39.9356	39.935
	26 Endrin Aldehyde	6.447	6.447	0.000	3316467416	35.5482	35.548
	27 Methoxychlor	6.603	6.603	0.000	2195331055	38.7951	38.795
	29 Endosulfan Sulfate	6.859	6.858	0.001	4240077901	42.3363	42.336

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Data File: /chem1/SVOA/GC_41.i/170313.b/a17031307.d Page 2
Report Date: 13-Mar-2017 12:21

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)
	30 Endrin Ketone	7.128	7.128	0.000	4986988702	41.0025	41.002
T	31 Decachlorobiphenyl	8.035	8.035	0.000	8530775051	87.0338	87.033

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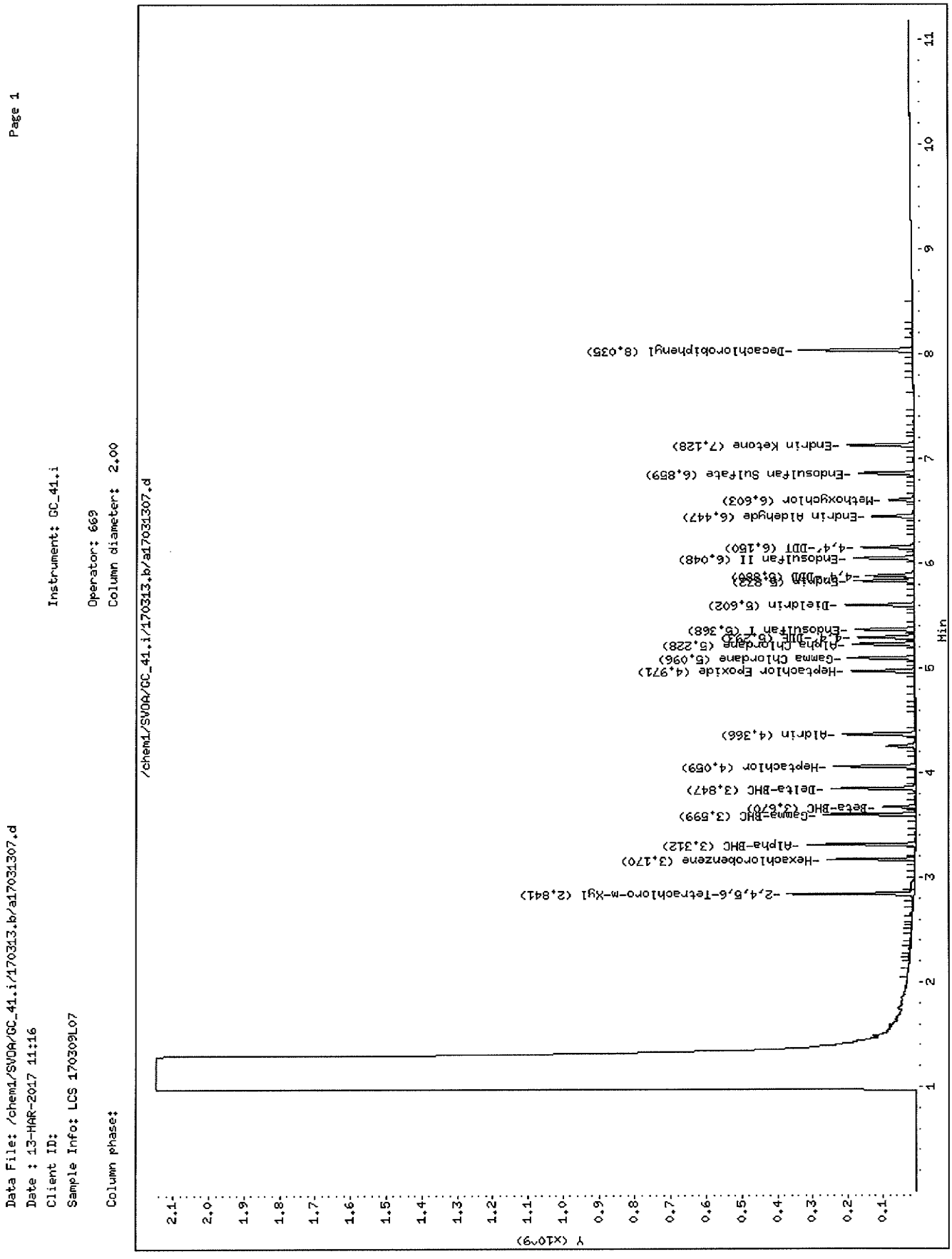

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Data File: /chem1/SVOA/GC_41.i/170313.b/b17031307.d Page 1
Report Date: 13-Mar-2017 11:39

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170313.b/b17031307.d
Lab Smp Id:
Inj Date : 13-MAR-2017 11:16
Operator : 669 Inst ID: GC_41.i
Smp Info : LCS 170309L07
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170313.b/b8081d.m
Meth Date : 13-Mar-2017 11:38 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: b17020224.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PEST.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)
$ 1	2,4,5,6-Tetrachloro-m-Xylene	2.734	2.732	0.002	6668528285	67.6579	67.657
2	Hexachlorobenzene	3.119	3.117	0.002	4205502355	34.7449	34.744
3	Alpha-BHC	3.235	3.234	0.001	5754158931	34.1770	34.177
4	Gamma-BHC	3.556	3.555	0.001	5183959529	34.4045	34.404
5	Beta-BHC	3.625	3.624	0.001	2088107782	34.3036	34.303
6	Delta-BHC	3.911	3.910	0.001	5288177647	36.1890	36.188
7	Heptachlor	3.981	3.979	0.002	5044318843	34.0527	34.052
8	Aldrin	4.311	4.310	0.001	4813400881	35.3052	35.305
11	Heptachlor Epoxide	4.890	4.889	0.001	4312276601	36.7439	36.743
13	Gamma Chlordane	5.078	5.077	0.001	5697689868	45.9481	45.948
15	Alpha Chlordane	5.224	5.223	0.001	4269646134	35.8456	35.845
16	Endosulfan I	5.285	5.284	0.001	4154409181	39.6505	39.650
17	4,4'-DDE	5.387	5.386	0.001	4340956784	36.8147	36.814
18	Dieldrin	5.555	5.555	0.000	4670595934	39.6956	39.695
20	Endrin	5.854	5.854	0.000	3978892681	41.0785	41.078
23	4,4'-DDD	5.956	5.955	0.001	3697009914	36.7291	36.729
24	Endosulfan II	6.059	6.059	0.000	4254191995	49.1259	49.125
25	4,4'-DDT	6.256	6.256	0.000	3724567415	37.9749	37.974
26	Endrin Aldehyde	6.383	6.382	0.001	3039592966	34.1622	34.162
27	Endosulfan Sulfate	6.645	6.645	0.000	3927432668	40.5820	40.582
29	Methoxychlor	6.905	6.904	0.001	1897642454	34.7029	34.702

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Data File: /chem1/SVOA/GC_41.i/170313.b/b17031307.d Page 2
Report Date: 13-Mar-2017 11:39

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)
30 Endrin Ketone	7.149	7.148	0.001	4442646346	38.6499	38.649
$ 31 Decachlorobiphenyl	8.257	8.256	0.001	7214014756	76.2076	76.207

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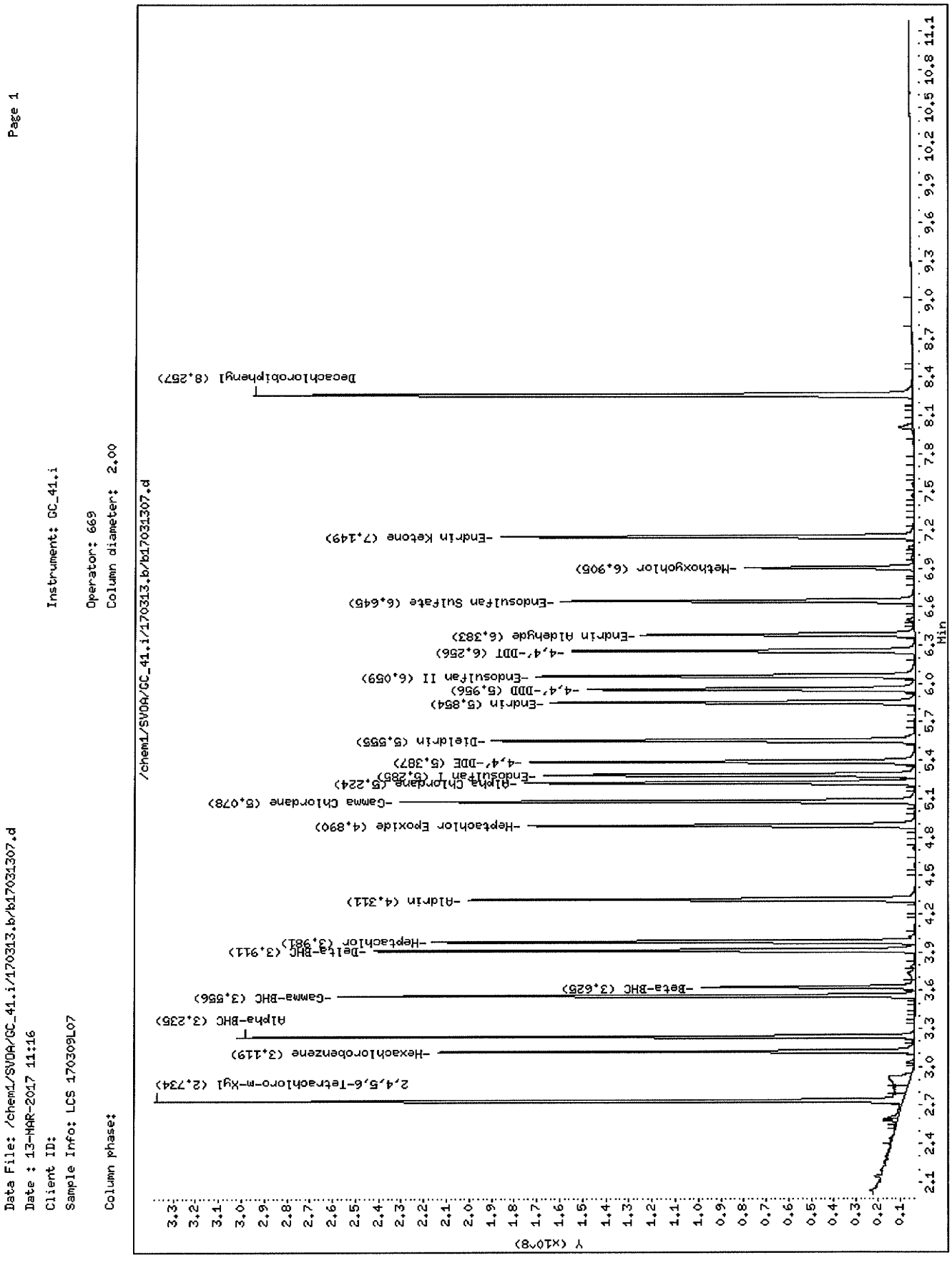

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Data File: /chem1/SVOA/GC_41.i/170313.b/a17031308.d Page 1
Report Date: 13-Mar-2017 12:21

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Data file : /chem1/SVOA/GC_41.i/170313.b/a17031308.d
Lab Smp Id:
Inj Date : 13-MAR-2017 11:31
Operator : 669 Inst ID: GC_41.i
Smp Info : MS 17-03-0588-1 170309S07
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170313.b/a8081d.m
Meth Date : 13-Mar-2017 11:37 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: a17020224.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PEST.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
T	1 2,4,5,6-Tetrachloro-m-Xylene	2.841	2.840	0.001	7008754472	65.8681	65.868
	2 Hexachlorobenzene	3.170	3.169	0.001	5171509423	35.8651	35.865
	3 Alpha-BHC	3.312	3.311	0.001	6126627522	34.5305	34.530
	4 Gamma-BHC	3.599	3.598	0.001	5611384143	35.0936	35.093
	5 Beta-BHC	3.671	3.669	0.002	2241892125	35.2222	35.222
	6 Delta-BHC	3.848	3.846	0.002	5793255705	37.6020	37.602
	7 Heptachlor	4.059	4.058	0.001	5614639514	35.1046	35.104
	8 Aldrin	4.367	4.366	0.001	5165031022	36.1674	36.167
	12 Heptachlor Epoxide	4.971	4.970	0.001	4742709157	37.8271	37.827
	13 Gamma Chlordane	5.096	5.096	0.000	4761246804	36.2700	36.269
	15 Alpha Chlordane	5.228	5.227	0.001	4562218680	36.3602	36.360
	16 4,4'-DDE	5.291	5.293	-0.002	8611352743	69.4325	69.432
	17 Endosulfan I	5.368	5.368	0.000	4488573894	40.9046	40.904
	19 Dieldrin	5.601	5.602	-0.001	4968212710	40.4367	40.436
	21 Endrin	5.832	5.832	0.000	4635334734	44.8269	44.826
	23 4,4'-DDD	5.877	5.880	-0.003	3922756758	38.0607	38.060
	24 Endosulfan II	6.046	6.048	-0.002	4143184817	47.1498	47.149
	25 4,4'-DDT	6.148	6.150	-0.002	5003439827	47.0183	47.018
	26 Endrin Aldehyde	6.445	6.447	-0.002	3022822561	32.4008	32.400
	27 Methoxychlor	6.599	6.603	-0.004	2036636900	35.9907	35.990
	29 Endosulfan Sulfate	6.857	6.858	-0.001	3703725726	36.9809	36.980

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Data File: /chem1/SVOA/GC_41.i/170313.b/a17031308.d
Report Date: 13-Mar-2017 12:21

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppb)	(ppb)
30 Endrin Ketone	7.126	7.128	-0.002	4679944622	38.4780	38.478
T 31 Decachlorobiphenyl	8.033	8.035	-0.002	8366720670	85.3601	85.360

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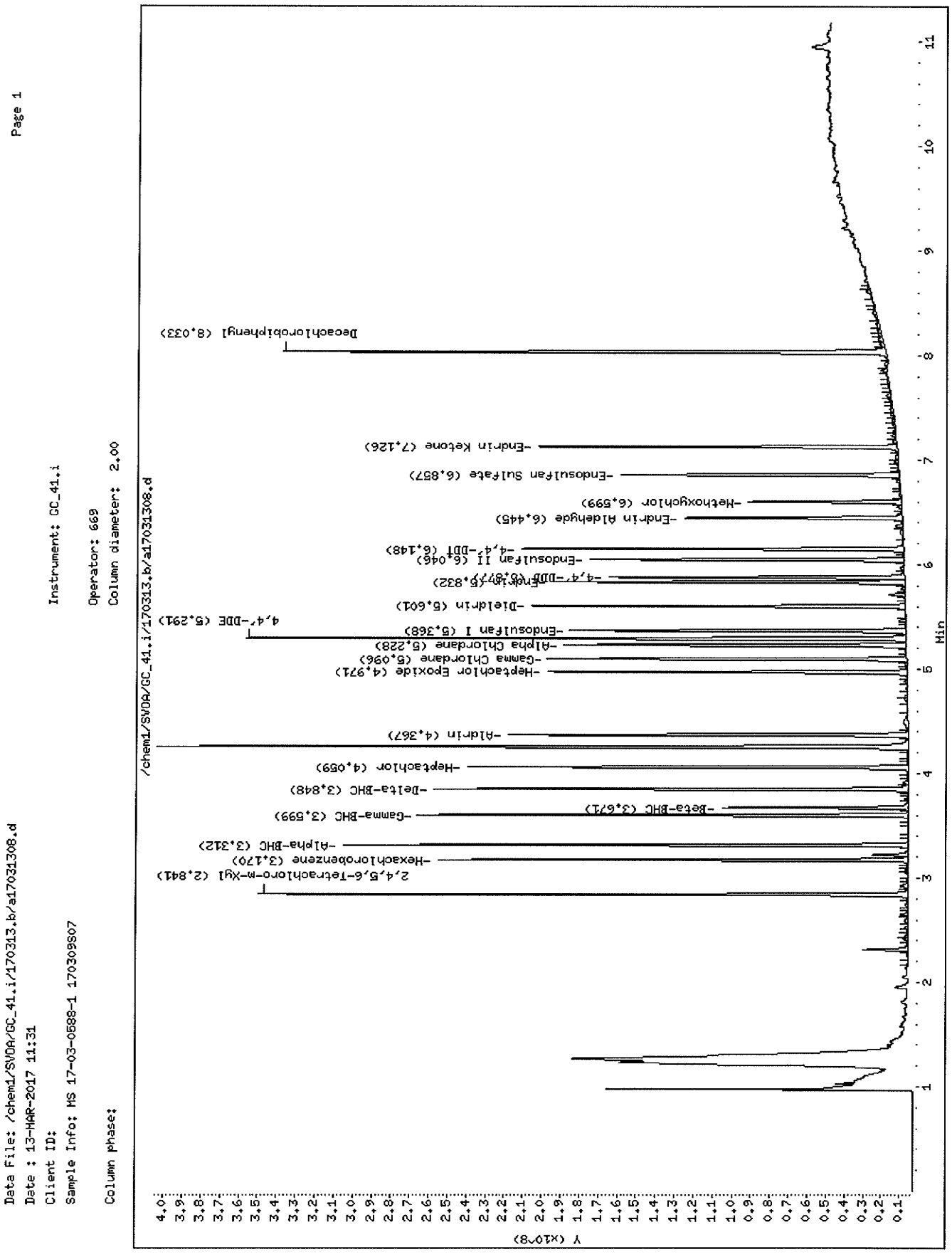

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Data File: /chem1/SVOA/GC_41.i/170313.b/b17031308.d Page 1
Report Date: 13-Mar-2017 12:13

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Data file : /chem1/SVOA/GC_41.i/170313.b/b17031308.d
Lab Smp Id:
Inj Date : 13-MAR-2017 11:31
Operator : 669 Inst ID: GC_41.i
Smp Info : MS 17-03-0588-1 170309S07
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170313.b/b8081d.m
Meth Date : 13-Mar-2017 11:38 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: b17020224.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PEST.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

						CONCENTRATIONS	
						ON-COLUMN	FINAL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppb)	(ppb)
$	1 2,4,5,6-Tetrachloro-m-Xylene	2.734	2.732	0.002	6231846263	63.2274	63.227
	2 Hexachlorobenzene	3.119	3.117	0.002	4056877420	33.5170	33.517
	3 Alpha-BHC	3.235	3.234	0.001	5460708567	32.4341	32.434
	4 Gamma-BHC	3.556	3.555	0.001	5023541499	33.3399	33.339
	5 Beta-BHC	3.625	3.624	0.001	2022977630	33.2336	33.233
	6 Delta-BHC	3.911	3.910	0.001	5034131200	34.4505	34.450
	7 Heptachlor	3.981	3.979	0.002	4823212474	32.5600	32.560
	8 Aldrin	4.311	4.310	0.001	4651680929	34.1190	34.119
	11 Heptachlor Epoxide	4.889	4.889	0.000	4132326738	35.2106	35.210
	13 Gamma Chlordane	5.078	5.077	0.001	9322107163	75.1767	75.176
	15 Alpha Chlordane	5.224	5.223	0.001	4005008848	33.6239	33.623
	16 Endosulfan I	5.284	5.284	0.000	3906245718	37.2820	37.281
	17 4,4'-DDE	5.385	5.386	-0.001	7479975911	63.4359	63.435
	18 Dieldrin	5.554	5.555	-0.001	4490787306	38.1674	38.167
	20 Endrin	5.854	5.854	0.000	4140936283	42.7515	42.751
	23 4,4'-DDD	5.954	5.955	-0.001	3400019438	33.7785	33.778
	24 Endosulfan II	6.058	6.059	-0.001	3641016392	42.0451	42.045
	25 4,4'-DDT	6.255	6.256	-0.001	4155160624	42.3652	42.365
	26 Endrin Aldehyde	6.382	6.382	0.000	2665365606	29.9563	29.956
	27 Endosulfan Sulfate	6.644	6.645	-0.001	3292715346	34.0235	34.023
	29 Methoxychlor	6.903	6.904	-0.001	1744646527	31.9050	31.905

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Data File: /chem1/SVOA/GC_41.i/170313.b/b17031308.d
Report Date: 13-Mar-2017 12:13

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)
30 Endrin Ketone	7.147	7.148	-0.001	3749648444	32.6210	32.620
$ 31 Decachlorobiphenyl	8.255	8.256	-0.001	6616647039	69.8971	69.897

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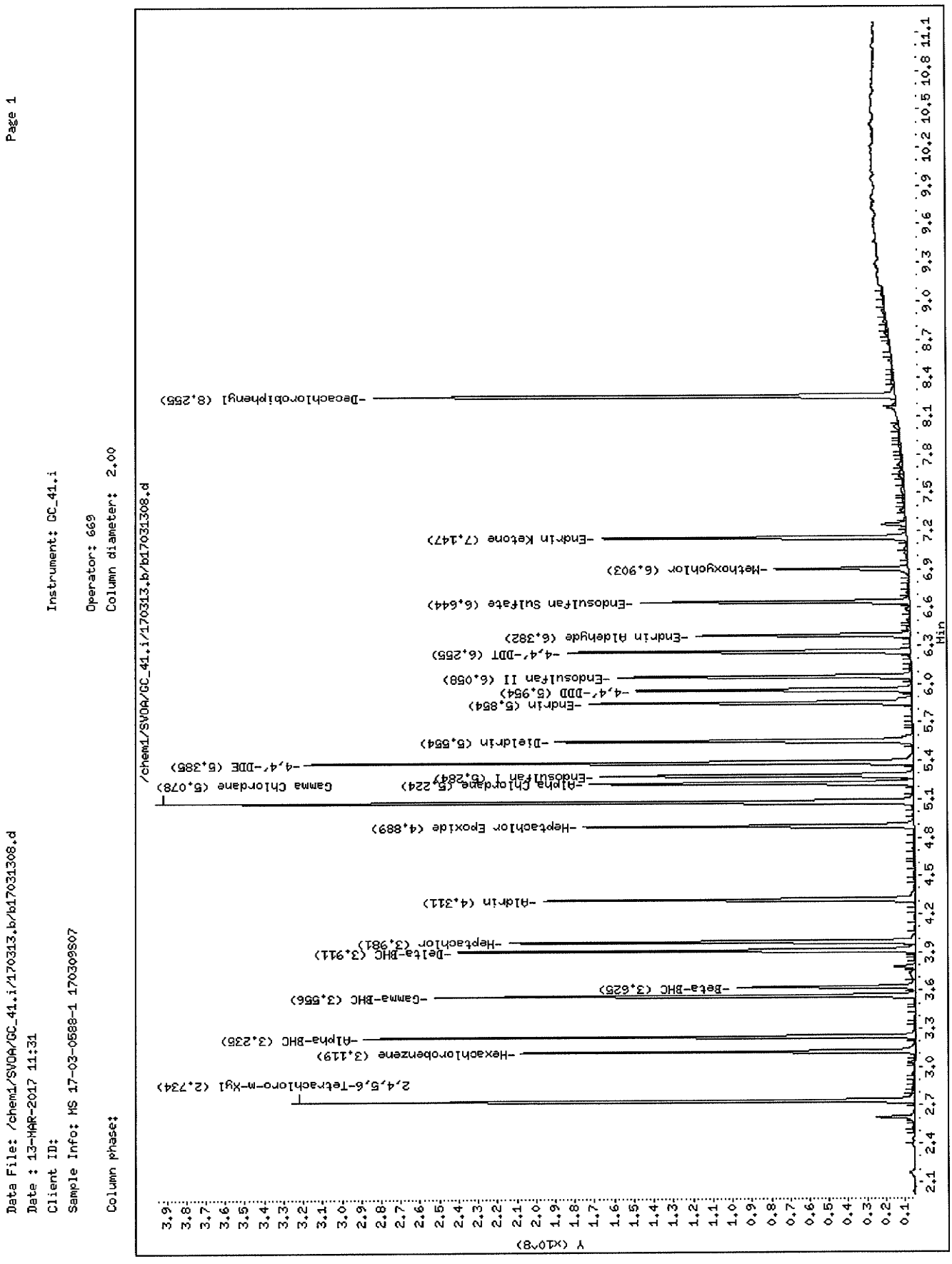

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Data File: /chem1/SVOA/GC_41.i/170313.b/a17031309.d Page 1
Report Date: 13-Mar-2017 12:23

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Data file : /chem1/SVOA/GC_41.i/170313.b/a17031309.d
Lab Smp Id:
Inj Date : 13-MAR-2017 11:46
Operator : 669 Inst ID: GC_41.i
Smp Info : MSD 17-03-0588-1 170309S07
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170313.b/a8081d.m
Meth Date : 13-Mar-2017 11:37 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: a17020224.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PEST.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

						CONCENTRATIONS	
						ON-COLUMN	FINAL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppb)	(ppb)
T	1 2,4,5,6-Tetrachloro-m-Xylene	2.841	2.840	0.001	6804475322	63.9483	63.948
	2 Hexachlorobenzene	3.170	3.169	0.001	4979181417	34.5313	34.531
	3 Alpha-BHC	3.312	3.311	0.001	5944757899	33.5055	33.505
	4 Gamma-BHC	3.599	3.598	0.001	5448614221	34.0756	34.075
	5 Beta-BHC	3.671	3.669	0.002	2210785289	34.7335	34.733
	6 Delta-BHC	3.848	3.846	0.002	5660932372	36.7432	36.743
	7 Heptachlor	4.059	4.058	0.001	5534120808	34.6011	34.601
	8 Aldrin	4.367	4.366	0.001	4949140721	34.6556	34.655
	12 Heptachlor Epoxide	4.971	4.970	0.001	4649519421	37.0838	37.083
	13 Gamma Chlordane	5.095	5.096	-0.001	4671598556	35.5871	35.587
	15 Alpha Chlordane	5.227	5.227	0.000	4417659473	35.2081	35.208
	16 4,4'-DDE	5.291	5.293	-0.002	10607378247	85.5263	85.526
	17 Endosulfan I	5.368	5.368	0.000	4321907637	39.3857	39.385
	19 Dieldrin	5.601	5.602	-0.001	4849092312	39.4672	39.467
	21 Endrin	5.831	5.832	-0.001	4450463084	43.0390	43.039
	23 4,4'-DDD	5.877	5.880	-0.003	3789923187	36.7719	36.771
	24 Endosulfan II	6.046	6.048	-0.002	4036376072	45.9343	45.934
	25 4,4'-DDT	6.148	6.150	-0.002	5339650988	50.1778	50.177
	26 Endrin Aldehyde	6.445	6.447	-0.002	2864412946	30.7028	30.702
	27 Methoxychlor	6.599	6.603	-0.004	2005177526	35.4347	35.434
	29 Endosulfan Sulfate	6.856	6.858	-0.002	3655239894	36.4968	36.496

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Data File: /chem1/SVOA/GC_41.i/170313.b/a17031309.d Page 2
Report Date: 13-Mar-2017 12:23

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppb)	(ppb)
==========	==	======	======	========	========	========
30 Endrin Ketone	7.126	7.128	-0.002	4908320436	40.3557	40.355
T 31 Decachlorobiphenyl	8.034	8.035	-0.001	8508362820	86.8052	86.805

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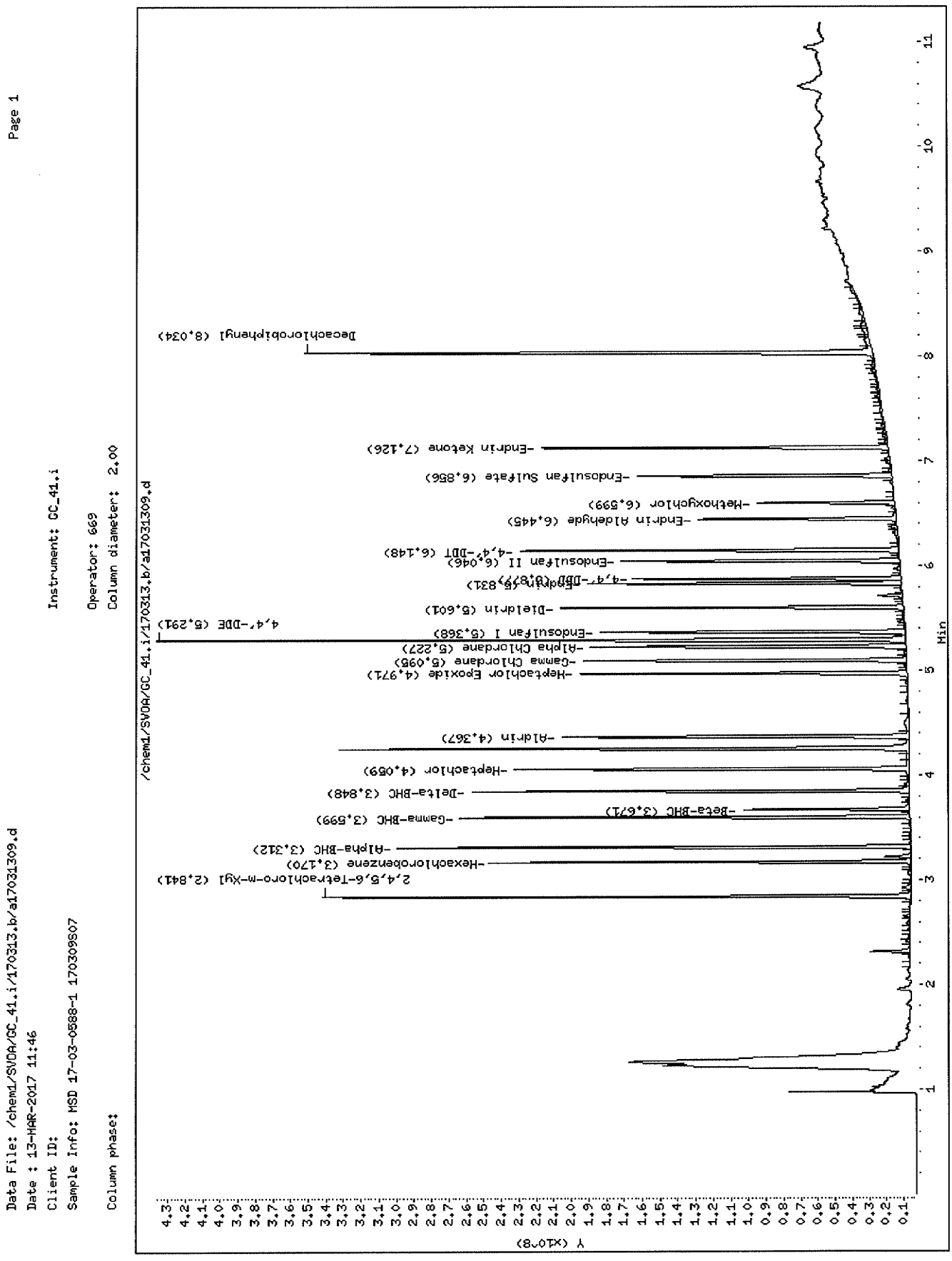

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Data File: /chem1/SVOA/GC_41.i/170313.b/b17031309.d Page 1
Report Date: 13-Mar-2017 12:22

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170313.b/b17031309.d
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Inj Date : 13-MAR-2017 11:46
Operator : 669 Inst ID: GC_41.i
Smp Info : MSD 17-03-0588-1 170309S07
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170313.b/b8081d.m
Meth Date : 13-Mar-2017 11:38 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: b17020224.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PEST.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)
$ 1	2,4,5,6-Tetrachloro-m-Xylene	2.734	2.732	0.002	6100603024	61.8959	61.895
2	Hexachlorobenzene	3.119	3.117	0.002	3910693353	32.3093	32.309
3	Alpha-BHC	3.236	3.234	0.002	5279208831	31.3560	31.356
4	Gamma-BHC	3.556	3.555	0.001	4865431040	32.2905	32.290
5	Beta-BHC	3.625	3.624	0.001	1993122863	32.7431	32.743
6	Delta-BHC	3.912	3.910	0.002	4907022510	33.5806	33.580
7	Heptachlor	3.981	3.979	0.002	4619090545	31.1821	31.182
8	Aldrin	4.311	4.310	0.001	4440173509	32.5677	32.567
11	Heptachlor Epoxide	4.890	4.889	0.001	3991890598	34.0140	34.013
13	Gamma Chlordane	5.078	5.077	0.001	8434763247	68.0209	68.020
15	Alpha Chlordane	5.224	5.223	0.001	3840446873	32.2423	32.242
16	Endosulfan I	5.285	5.284	0.001	3757975384	35.8669	35.866
17	4,4'-DDE	5.386	5.386	0.000	8998807315	76.3168	76.316
18	Dieldrin	5.555	5.555	0.000	4239198274	36.0291	36.029
20	Endrin	5.854	5.854	0.000	4069470736	42.0137	42.013
23	4,4'-DDD	5.954	5.955	-0.001	3248065749	32.2689	32.268
24	Endosulfan II	6.058	6.059	-0.001	3513894679	40.5772	40.577
25	4,4'-DDT	6.255	6.256	-0.001	4463095303	45.5048	45.504
26	Endrin Aldehyde	6.382	6.382	0.000	2550930346	28.6701	28.670
27	Endosulfan Sulfate	6.644	6.645	-0.001	3188328087	32.9449	32.944
29	Methoxychlor	6.904	6.904	0.000	1661220698	30.3794	30.379

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Data File: /chem1/SVOA/GC_41.i/170313.b/b17031309.d
Report Date: 13-Mar-2017 12:22

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)
30 Endrin Ketone	7.148	7.148	0.000	3716455400	32.3322	32.332
$ 31 Decachlorobiphenyl	8.256	8.256	0.000	6725882652	71.0510	71.051

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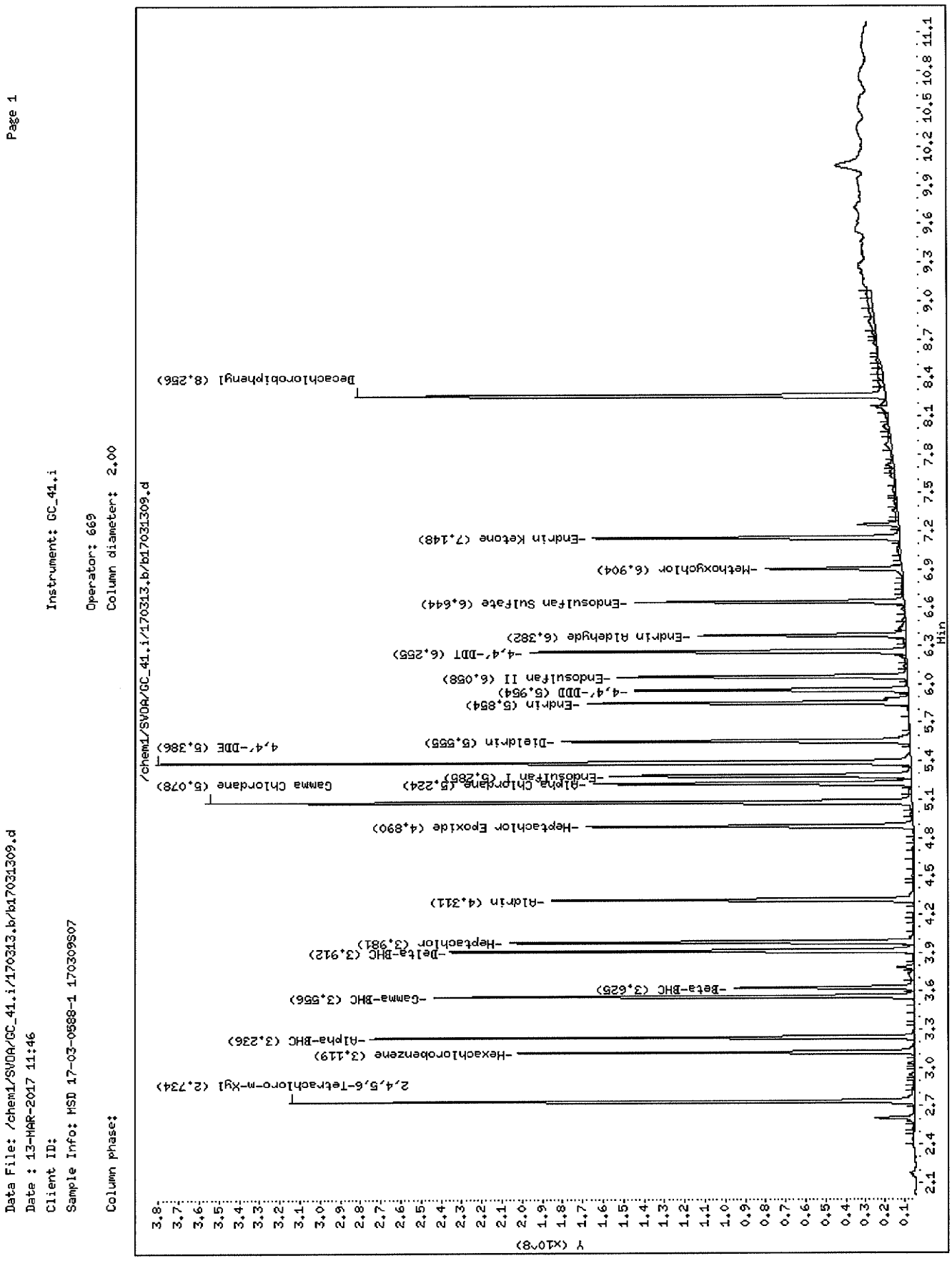

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Data File: /chem1/SVOA/GC_41.i/170313.b/a17031310.d Page 1
Report Date: 13-Mar-2017 12:23

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170313.b/a17031310.d
Lab Smp Id:
Inj Date : 13-MAR-2017 12:01
Operator : 669 Inst ID: GC_41.i
Smp Info : 17-03-0588-1
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170313.b/a8081d.m
Meth Date : 13-Mar-2017 11:37 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: a17020224.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: regpest.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

						CONCENTRATIONS	
						ON-COLUMN	FINAL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppb)	(ppb)
T	1 2,4,5,6-Tetrachloro-m-Xylene	2.841	2.840	0.001	6492297331	61.0145	61.014
	2 Hexachlorobenzene	3.168	3.169	-0.001	90252255	0.62591	0.625(a)
	3 Alpha-BHC	3.304	3.311	-0.007	5653448	0.03186	0.031(a)
	4 Gamma-BHC	3.600	3.598	0.002	6540373	0.04090	0.040(a)
	5 Beta-BHC	3.693	3.669	0.024	70216645	1.10317	1.103(a)
	6 Delta-BHC	3.847	3.846	0.001	43264411	0.28081	0.280(a)
	7 Heptachlor	4.030	4.058	-0.028	114984578	0.71892	0.718(a)
	8 Aldrin	Compound Not Detected.					
	12 Heptachlor Epoxide	4.952	4.970	-0.018	65967571	0.52615	0.526(a)
	13 Gamma Chlordane	5.118	5.096	0.022	61248284	0.46657	0.466(a)
	15 Alpha Chlordane	5.227	5.227	0.000	21730793	0.17319	0.173(a)
	16 4,4'-DDE	5.291	5.293	-0.002	3443931022	27.7681	27.768
	17 Endosulfan I	5.373	5.368	0.005	20315461	0.18514	0.185(a)
	19 Dieldrin	5.601	5.602	-0.001	106140267	0.86389	0.863(a)
	21 Endrin	Compound Not Detected.					
	23 4,4'-DDD	5.876	5.880	-0.004	146041252	1.41697	1.416(a)
	24 Endosulfan II	6.062	6.048	0.014	25104371	0.28569	0.285(a)
	25 4,4'-DDT	6.147	6.150	-0.003	881996361	8.28830	8.288(a)
	26 Endrin Aldehyde	6.458	6.447	0.011	92132007	0.98754	0.987(a)
	27 Methoxychlor	6.602	6.603	-0.001	28430837	0.50242	0.502(a)
	29 Endosulfan Sulfate	6.848	6.858	-0.010	77082277	0.76965	0.769(a)

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Data File: /chem1/SVOA/GC_41.i/170313.b/a17031310.d
Report Date: 13-Mar-2017 12:23

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)
	30 Endrin Ketone	7.124	7.128	-0.004	384483409	3.16119	3.161(a)
T	31 Decachlorobiphenyl	8.033	8.035	-0.002	8388244700	85.5797	85.579
M	32 Chlordane	Compound Not Detected.					
	33 CHLD (1)	Compound Not Detected.					
	34 CHLD (2)	Compound Not Detected.					
	35 CHLD (3)	Compound Not Detected.					
	36 CHLD (4)	Compound Not Detected.					
	37 CHLD (5)	Compound Not Detected.					
M	38 Toxaphene	Compound Not Detected.					
	39 TOXAPHENE (1)	Compound Not Detected.					
	40 TOXAPHENE (2)	Compound Not Detected.					
	41 TOXAPHENE (3)	Compound Not Detected.					
	42 TOXAPHENE (4)	Compound Not Detected.					
	43 TOXAPHENE (5)	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

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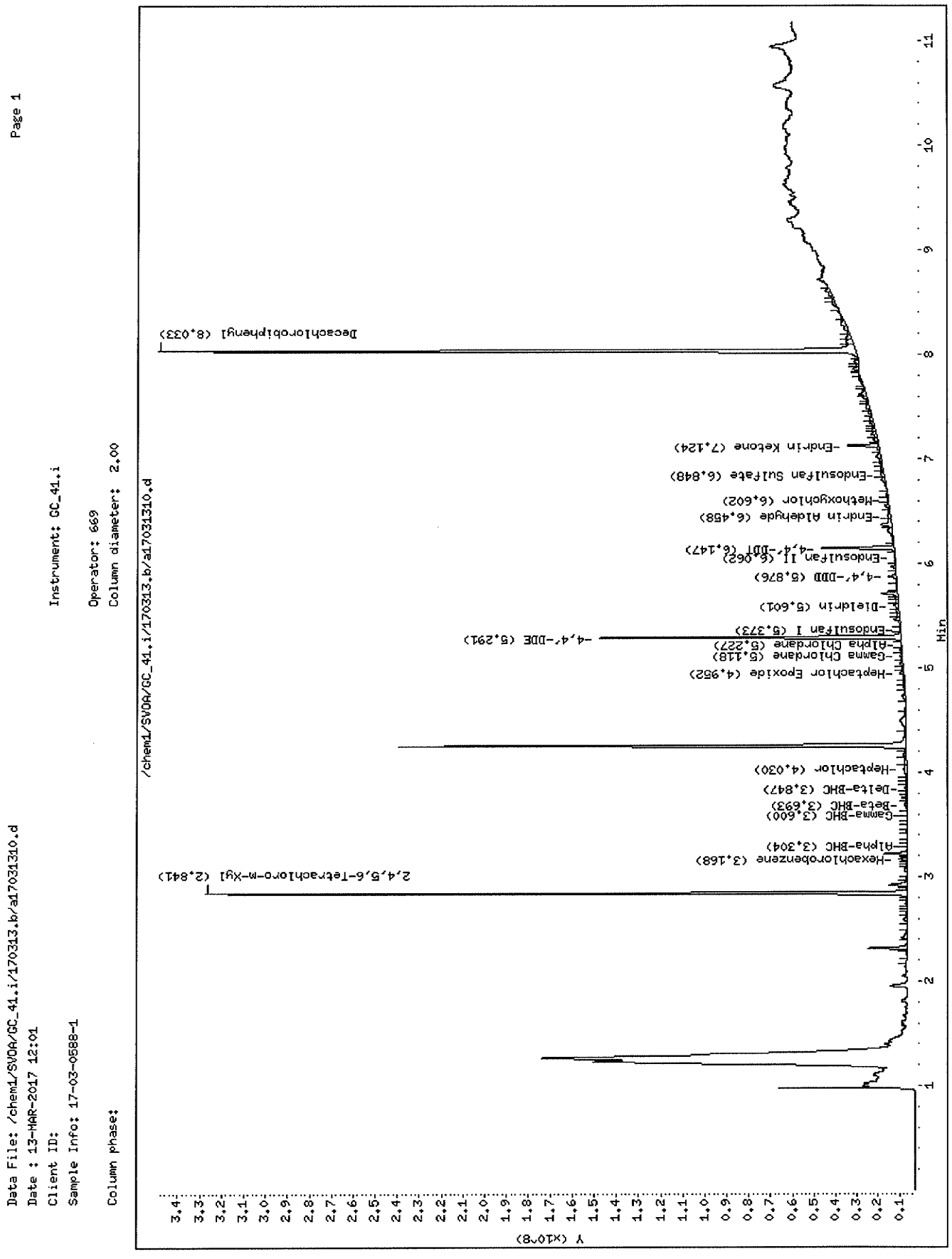

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Data File: /chem1/SVOA/GC_41.i/170313.b/b17031310.d Page 1
Report Date: 13-Mar-2017 12:23

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170313.b/b17031310.d
Lab Smp Id:
Inj Date : 13-MAR-2017 12:01
Operator : 669 Inst ID: GC_41.i
Smp Info : 17-03-0588-1
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170313.b/b8081d.m
Meth Date : 13-Mar-2017 11:38 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: b17020224.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: regpest.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)
$ 1	2,4,5,6-Tetrachloro-m-Xylene	2.734	2.732	0.002	5819019715	59.0390	59.038
2	Hexachlorobenzene	3.122	3.117	0.005	13061258	0.10791	0.107(a)
3	Alpha-BHC	3.250	3.234	0.016	3730761	0.02216	0.022(a)
4	Gamma-BHC	3.538	3.555	-0.017	42314046	0.28083	0.280(a)
5	Beta-BHC	3.631	3.624	0.007	81450233	1.33807	1.338(a)
6	Delta-BHC	3.918	3.910	0.008	22948210	0.15704	0.157(a)
7	Heptachlor	4.001	3.979	0.022	36002515	0.24304	0.243(a)
8	Aldrin	4.304	4.310	-0.006	57362045	0.42074	0.420(a)
11	Heptachlor Epoxide	Compound Not Detected.					
13	Gamma Chlordane	5.078	5.077	0.001	2996506627	24.1649	24.164
15	Alpha Chlordane	5.223	5.223	0.000	36554392	0.30689	0.306(a)
16	Endosulfan I	5.304	5.284	0.020	58626431	0.55954	0.559(a)
17	4,4'-DDE	5.386	5.386	0.000	2957393833	25.0810	25.080
18	Dieldrin	5.554	5.555	-0.001	65485219	0.55656	0.556(a)
20	Endrin	Compound Not Detected.					
23	4,4'-DDD	5.955	5.955	0.000	76335827	0.75838	0.758(a)
24	Endosulfan II	6.056	6.059	-0.003	13247177	0.15297	0.152(a)
25	4,4'-DDT	6.255	6.256	-0.001	812011227	8.27910	8.279(a)
26	Endrin Aldehyde	6.389	6.382	0.007	173644636	1.95161	1.951(a)
27	Endosulfan Sulfate	6.673	6.645	0.028	7643591	0.07898	0.078(a)
29	Methoxychlor	6.922	6.904	0.018	18349030	0.33556	0.335(a)

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Data File: /chem1/SVOA/GC_41.i/170313.b/b17031310.d
Report Date: 13-Mar-2017 12:23

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)
	30 Endrin Ketone	7.139	7.148	-0.009	54247954	0.47194	0.471(a)
$	31 Decachlorobiphenyl	8.256	8.256	0.000	6419266388	67.8120	67.811
M	32 Chlordane	Compound Not Detected.					
	33 CHLD (1)	Compound Not Detected.					
	34 CHLD (2)	Compound Not Detected.					
	35 CHLD (3)	Compound Not Detected.					
	36 CHLD (4)	Compound Not Detected.					
	37 CHLD (5)	Compound Not Detected.					
M	38 Toxaphene	Compound Not Detected.					
	39 TOXAPHENE (1)	Compound Not Detected.					
	40 TOXAPHENE (2)	Compound Not Detected.					
	41 TOXAPHENE (3)	Compound Not Detected.					
	42 TOXAPHENE (4)	Compound Not Detected.					
	43 TOXAPHENE (5)	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

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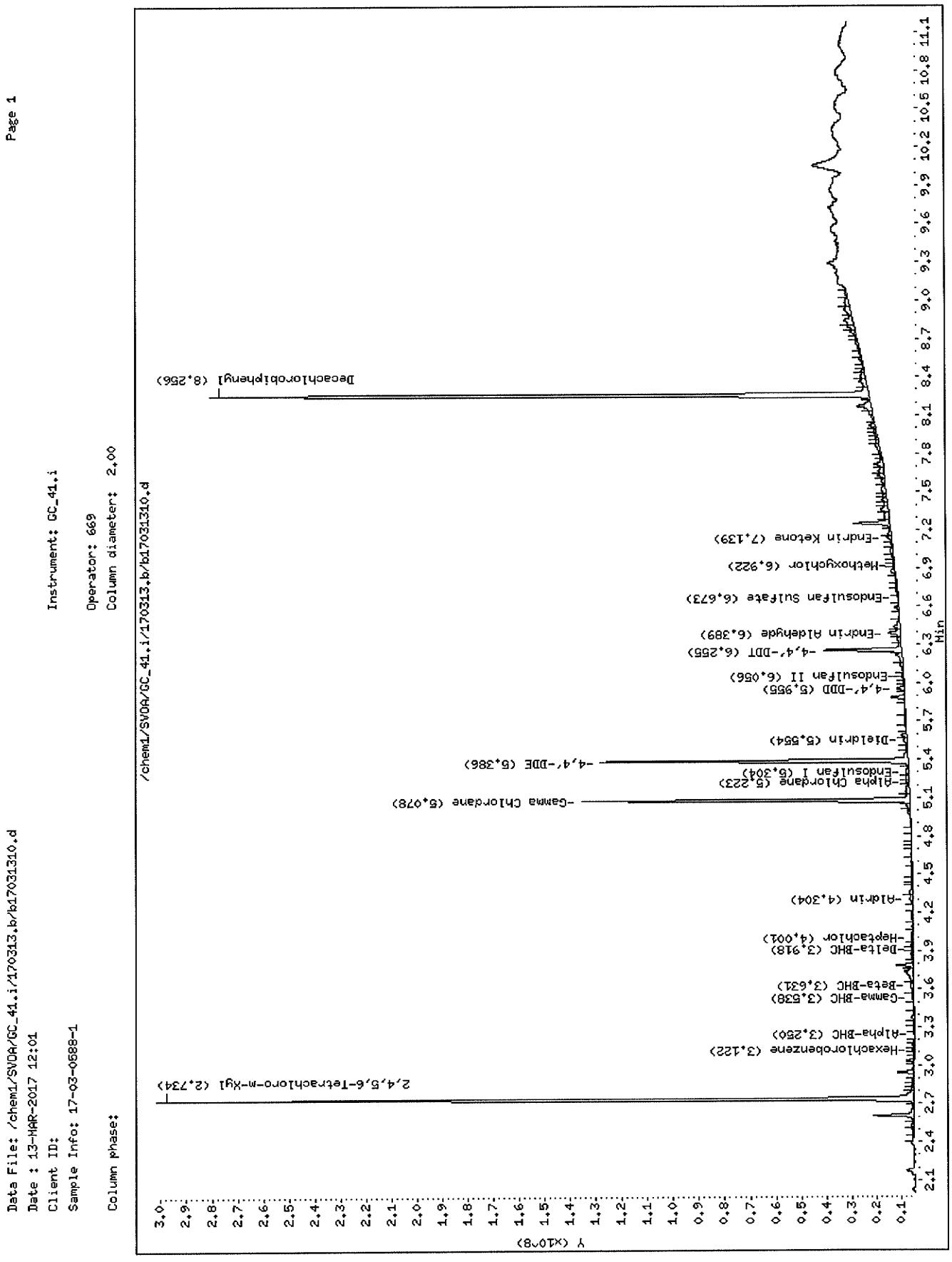

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EPA METHOD 8081A
Organochlorine Pesticides

Continuing Calibration

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CCV ASSOCIATION SUMMARY
FOR METHOD: EPA 8081A

BATCH ID: **170313A017** ANALYZED BY: 669
INSTRUMENT: GC 41

WORK ORDER: **099-12-528** REVIEWED BY:
MATRIX: Water D/T REVIEWED:

CEL SAMPLE #	CLIENT SAMPLE ID	D/T ANALYZED	DATA FILE
6542	Daily Calibration	2017-03-13 10:46	/chem1/SVOA/GC_41/170313/a1703130517031305

WORK ORDER: **17-03-0531** REVIEWED BY:
MATRIX: Soil D/T REVIEWED:

CEL SAMPLE #	CLIENT SAMPLE ID	D/T ANALYZED	DATA FILE
19	D-DU1-S-08-1	2017-03-13 13:32	/chem1/SVOA/GC_41/170313/a1703131617031316
26	D-DU1-S-10-1	2017-03-13 13:47	/chem1/SVOA/GC_41/170313/a1703131717031317

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CONTINUING CALIBRATION VERIFICATION QUALITY CONTROL SHEET
FOR METHOD: EPA 8081A

CCV WORK ORDER: **099-12-528-6542-5152**
BATCH ID:
INITIAL: 170202I005
CCV: 170313A017
INSTRUMENT: GC 41

DATA FILE: /chem1/SVOA/GC_41/170313/a1703130517031305

ANALYZED BY: 669
D/T ANALYZED:
INITIAL: 2017-02-02 15:04
CCV: 2017-03-13 10:46
REVIEWED BY:
D/T REVIEWED:

COMPOUND NAME	TYPE	CALIB MODEL	MIN RF	AVG RF	CCV RF	AMOUNT	CCV CONC	CCV %D	CCV %D CL	STATUS
Alpha-BHC	C	Avg Resp	0.00	177426408.136	166786984.575			6	0-15	PASS
Gamma-BHC	C	Avg Resp	0.00	159897767.428	149514553.975			6	0-15	PASS
Beta-BHC	C	Avg Resp	0.00	63649901.246	59685251.775			6	0-15	PASS
Heptachlor	C	Avg Resp	0.00	159940452.667	149389783.900			7	0-15	PASS
Delta-BHC	C	Avg Resp	0.00	154067570.449	140642756.600			9	0-15	PASS
Aldrin	C	Avg Resp	0.00	142809086.859	134526789.675			6	0-15	PASS
Heptachlor Epoxide	C	Avg Resp	0.00	125378768.220	117522828.125			6	0-15	PASS
Endosulfan I	C	Avg Resp	0.00	109732870.303	107347634.750			2	0-15	PASS
Dieldrin	C	Avg Resp	0.00	122863882.989	116828583.800			5	0-15	PASS
4,4'-DDE	C	Avg Resp	0.00	124024808.220	116172192.175			6	0-15	PASS
Endrin	C	Avg Resp	0.00	103405243.534	108241370.275			-5	0-15	PASS
Endrin Aldehyde	C	Avg Resp	0.00	93294824.011	83140618.175			11	0-15	PASS
4,4'-DDD	C	Avg Resp	0.00	103065734.528	97388142.975			6	0-15	PASS
Endosulfan II	C	Avg Resp	0.00	87872804.593	83742751.800			5	0-15	PASS
4,4'-DDT	C	Avg Resp	0.00	106414657.377	98028917.200			8	0-15	PASS
Endosulfan Sulfate	C	Avg Resp	0.00	100152270.931	93086690.900			7	0-15	PASS
Methoxychlor	C	Avg Resp	0.00	56587893.544	48784825.700			14	0-15	PASS
Chlordane	C	Avg Resp	0.00	61881343.746	56468037.692			9	0-15	PASS
Toxaphene	C	Avg Resp	0.00	23326632.087	21218214.660			9	0-15	PASS
Endrin Ketone	C	Avg Resp	0.00	121626350.390	106249734.800			13	0-15	PASS

Data File: /chem1/SVOA/GC_41.i/170313.b/a17031302.d
Report Date: 03/13/2017 12:24

Eurofins CalScience
Calibration Verification Report

Instrument ID: GC_41.i
Sample Name: P-CCV 40PPB P111616B
Sublist used: PEST.sub
Method used: /chem1/SVOA/GC_41.i/170313.b/a8081d.m

Injection Date and Time: 13-MAR-2017 10:00
Initial Calibration Date(s): 03-AUG-2016 02-FEB-2017
Initial Calibration Time(s): 11:20 16:04

Target Compounds	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D /Drift	Curve Type
Hexachlorobenzene	144193414.101	136628325.105	0.00	5	15	Averaged
Alpha-BHC	177426408.133	166786984.572	0.00	6	15	Averaged
Gamma-BHC	159897767.428	149514553.965	0.00	6	15	Averaged
Beta-BHC	63649901.244	59685251.774	0.00	6	15	Averaged
Delta-BHC	154067570.451	140642756.606	0.00	9	15	Averaged
Heptachlor	159940452.668	149389783.895	0.00	7	15	Averaged
Aldrin	142809086.857	134526789.663	0.00	6	15	Averaged
Heptachlor Epoxide	125378768.217	117522828.132	0.00	6	15	Averaged
Gamma Chlordane	131272395.996	123723693.276	0.00	6	15	Averaged
Alpha Chlordane	125472971.042	118897931.965	0.00	5	15	Averaged
4,4'-DDE	124024808.220	116172192.182	0.00	6	15	Averaged
Endosulfan I	109732870.309	107347634.744	0.00	2	15	Averaged
Dieldrin	122863882.984	116828583.798	0.00	5	15	Averaged
Endrin	103405243.534	108241370.284	0.00	-5	15	Averaged
4,4'-DDD	103065734.526	97388142.975	0.00	6	15	Averaged
Endosulfan II	87872804.592	83742751.807	0.00	5	15	Averaged
4,4'-DDT	106414657.376	98028917.209	0.00	8	15	Averaged
Endrin Aldehyde	93294824.010	83140618.185	0.00	11	15	Averaged
Methoxychlor	56587893.544	48784825.700	0.00	14	15	Averaged
Endosulfan Sulfate	100152270.929	93086690.896	0.00	7	15	Averaged
Endrin Ketone	121626350.395	106249734.809	0.00	13	15	Averaged

Surrogate Standards	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D /Drift	Curve Type
2,4,5,6-Tetrachloro-m-Xylene	106405822.634	97627701.355	0.00	8	15	Averaged
Decachlorobiphenyl	98016789.749	96463249.773	0.00	2	15	Averaged

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Data File: /chem1/SVOA/GC_41.i/170313.b/a17031302.d Page 1
Report Date: 13-Mar-2017 11:37

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170313.b/a17031302.d
Lab Smp Id:
Inj Date : 13-MAR-2017 10:00
Operator : 669 Inst ID: GC_41.i
Smp Info : P-CCV 40PPB P111616B
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170313.b/a8081d.m
Meth Date : 13-Mar-2017 11:37 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: a17020224.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PEST.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

						AMOUNTS	
						CAL-AMT	ON-COL
Compounds		RT	EXP RT	DLT RT	RESPONSE	(ppb)	(ppb)
T	1 2,4,5,6-Tetrachloro-m-Xylene	2.840	2.840	0.000	7810216108	80.0000	73.400
	2 Hexachlorobenzene	3.169	3.169	0.000	5465133004	40.0000	37.901
	3 Alpha-BHC	3.311	3.311	0.000	6671479383	40.0000	37.601
	4 Gamma-BHC	3.598	3.598	0.000	5980582159	40.0000	37.402
	5 Beta-BHC	3.669	3.669	0.000	2387410071	40.0000	37.508
	6 Delta-BHC	3.846	3.846	0.000	5625710264	40.0000	36.514
	7 Heptachlor	4.058	4.058	0.000	5975591356	40.0000	37.361
	8 Aldrin	4.366	4.366	0.000	5381071587	40.0000	37.680
	12 Heptachlor Epoxide	4.970	4.970	0.000	4700913125	40.0000	37.493
	13 Gamma Chlordane	5.096	5.096	0.000	4948947731	40.0000	37.699
	15 Alpha Chlordane	5.227	5.227	0.000	4755917279	40.0000	37.903
	16 4,4'-DDE	5.293	5.293	0.000	4646887687	40.0000	37.467
	17 Endosulfan I	5.368	5.368	0.000	4293905390	40.0000	39.130
	19 Dieldrin	5.602	5.602	0.000	4673143352	40.0000	38.035
	21 Endrin	5.832	5.832	0.000	4329654811	40.0000	41.870
	23 4,4'-DDD	5.880	5.880	0.000	3895525719	40.0000	37.796
	24 Endosulfan II	6.048	6.048	0.000	3349710072	40.0000	38.119
	25 4,4'-DDT	6.150	6.150	0.000	3921156688	40.0000	36.847
	26 Endrin Aldehyde	6.447	6.447	0.000	3325624727	40.0000	35.646
	27 Methoxychlor	6.603	6.603	0.000	1951393028	40.0000	34.484
	29 Endosulfan Sulfate	6.858	6.858	0.000	3723467636	40.0000	37.178

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Data File: /chem1/SVOA/GC_41.i/170313.b/a17031302.d Page 2
Report Date: 13-Mar-2017 11:37

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	30 Endrin Ketone	7.128	7.128	0.000	4249989392	40.0000	34.942
T	31 Decachlorobiphenyl	8.035	8.035	0.000	7717059982	80.0000	78.732

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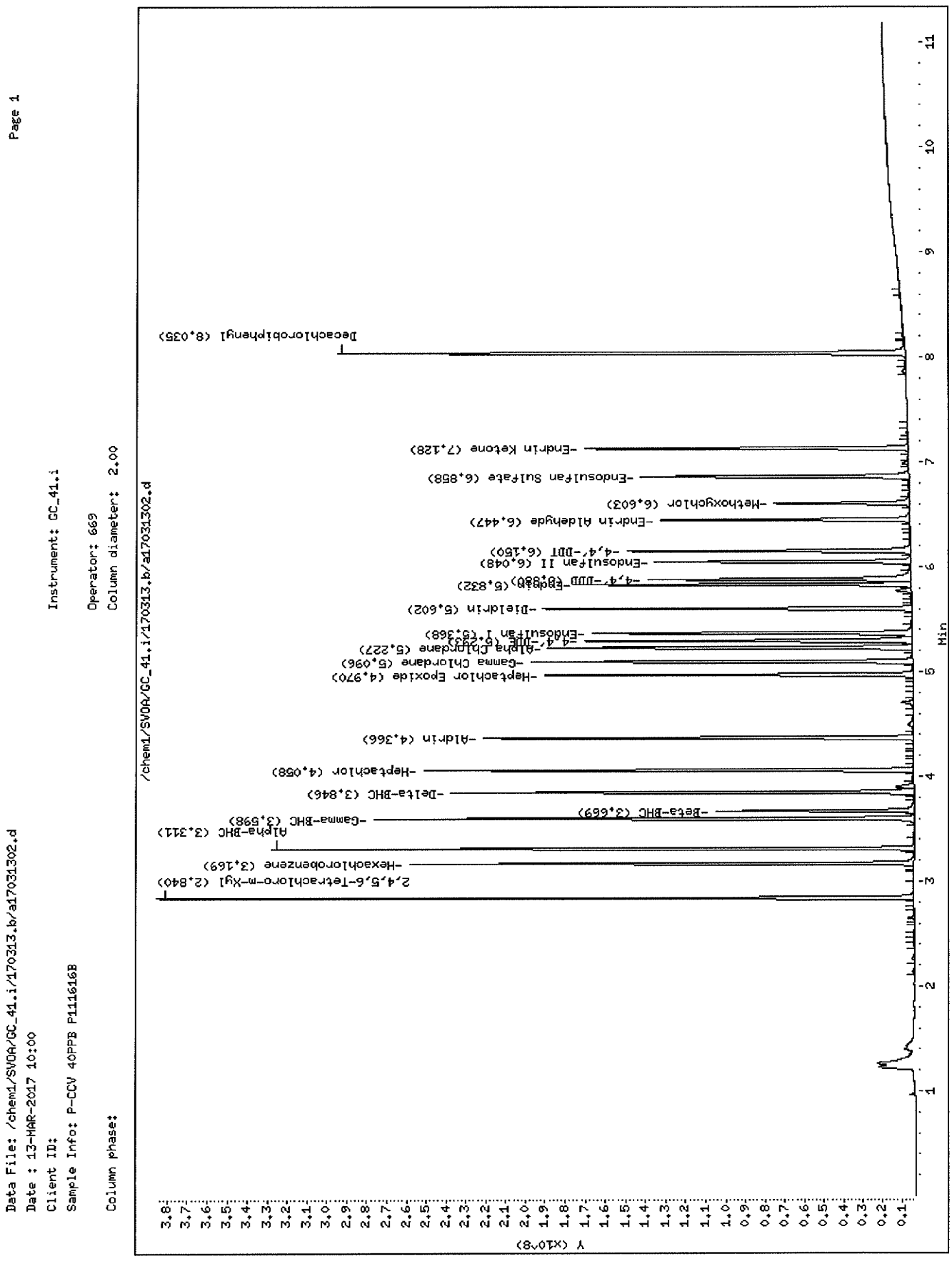

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Data File: /chem1/SVOA/GC_41.i/170313.b/b17031302.d
Report Date: 03/13/2017 12:24

Eurofins CalScience
Calibration Verification Report

Instrument ID: GC_41.i
Sample Name: P-CCV 40PPB P111616B
Sublist used: PEST.sub
Method used: /chem1/SVOA/GC_41.i/170313.b/b8081d.m

Injection Date and Time: 13-MAR-2017 10:00
Initial Calibration Date(s): 03-AUG-2016 02-FEB-2017
Initial Calibration Time(s): 11:20 16:04

Target Compounds	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D /Drift	Curve Type
Hexachlorobenzene	121039281.509	109184830.364	0.00	10	15	Averaged
Alpha-BHC	168363411.517	149822524.401	0.00	11	15	Averaged
Gamma-BHC	150676638.658	133682743.919	0.00	11	15	Averaged
Beta-BHC	60871457.585	54008052.503	0.00	11	15	Averaged
Delta-BHC	146126717.737	128746197.966	0.00	12	15	Averaged
Heptachlor	148132875.736	131183653.715	0.00	11	15	Averaged
Aldrin	136336779.560	122277981.434	0.00	10	15	Averaged
Heptachlor Epoxide	117360226.284	104128499.575	0.00	11	15	Averaged
Gamma Chlordane	124002610.334	113901055.600	0.00	8	15	Averaged
Alpha Chlordane	119112025.388	107787821.500	0.00	10	15	Averaged
4,4'-DDE	117913836.141	105758514.763	0.00	10	15	Averaged
Endosulfan I	104775700.255	94670085.388	0.00	10	15	Averaged
Dieldrin	117660246.461	106350127.325	0.00	10	15	Averaged
Endrin	96860666.867	96535015.200	0.00	0	15	Averaged
4,4'-DDD	100656240.271	94789177.400	0.00	6	15	Averaged
Endosulfan II	86597804.012	78581596.138	0.00	9	15	Averaged
4,4'-DDT	98079611.041	86582595.875	0.00	12	15	Averaged
Endrin Aldehyde	88975262.906	76135243.100	0.00	14	15	Averaged
Methoxychlor	54682460.163	47524883.150	0.00	13	15	Averaged
Endosulfan Sulfate	96777627.454	86513837.838	0.00	11	15	Averaged
Endrin Ketone	114945902.551	97629531.100	0.00	15	15	Averaged

Surrogate Standards	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D /Drift	Curve Type
2,4,5,6-Tetrachloro-m-Xylene	98562381.600	86691927.253	0.00	12	15	Averaged
Decachlorobiphenyl	94662693.353	81607252.275	0.00	14	15	Averaged

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Data File: /chem1/SVOA/GC_41.i/170313.b/b17031302.d Page 1
Report Date: 13-Mar-2017 11:38

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170313.b/b17031302.d
Lab Smp Id:
Inj Date : 13-MAR-2017 10:00
Operator : 669 Inst ID: GC_41.i
Smp Info : P-CCV 40PPB P111616B
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170313.b/b8081d.m
Meth Date : 13-Mar-2017 11:38 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: b17020224.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PEST.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
$ 1	2,4,5,6-Tetrachloro-m-Xylene	2.732	2.732	0.000	6935354180	80.0000	70.365
2	Hexachlorobenzene	3.117	3.117	0.000	4367393215	40.0000	36.082
3	Alpha-BHC	3.234	3.234	0.000	5992900976	40.0000	35.595
4	Gamma-BHC	3.555	3.555	0.000	5347309757	40.0000	35.488
5	Beta-BHC	3.624	3.624	0.000	2160322100	40.0000	35.489
6	Delta-BHC	3.910	3.910	0.000	5149847919	40.0000	35.242
7	Heptachlor	3.979	3.979	0.000	5247346149	40.0000	35.423
8	Aldrin	4.310	4.310	0.000	4891119257	40.0000	35.875
11	Heptachlor Epoxide	4.889	4.889	0.000	4165139983	40.0000	35.490
13	Gamma Chlordane	5.077	5.077	0.000	4556042224	40.0000	36.741
15	Alpha Chlordane	5.223	5.223	0.000	4311512860	40.0000	36.197
16	Endosulfan I	5.284	5.284	0.000	3786803415	40.0000	36.142
17	4,4'-DDE	5.386	5.386	0.000	4230340591	40.0000	35.876
18	Dieldrin	5.555	5.555	0.000	4254005093	40.0000	36.154
20	Endrin	5.854	5.854	0.000	3861400608	40.0000	39.865
23	4,4'-DDD	5.955	5.955	0.000	3791567096	40.0000	37.668
24	Endosulfan II	6.059	6.059	0.000	3143263845	40.0000	36.297
25	4,4'-DDT	6.256	6.256	0.000	3463303835	40.0000	35.311
26	Endrin Aldehyde	6.382	6.382	0.000	3045409724	40.0000	34.227
27	Endosulfan Sulfate	6.645	6.645	0.000	3460553513	40.0000	35.757
29	Methoxychlor	6.904	6.904	0.000	1900995326	40.0000	34.764

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Data File: /chem1/SVOA/GC_41.i/170313.b/b17031302.d Page 2
Report Date: 13-Mar-2017 11:38

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
30 Endrin Ketone	7.148	7.148	0.000	3905181244	40.0000	33.974
$ 31 Decachlorobiphenyl	8.257	8.257	0.000	6528580182	80.0000	68.966

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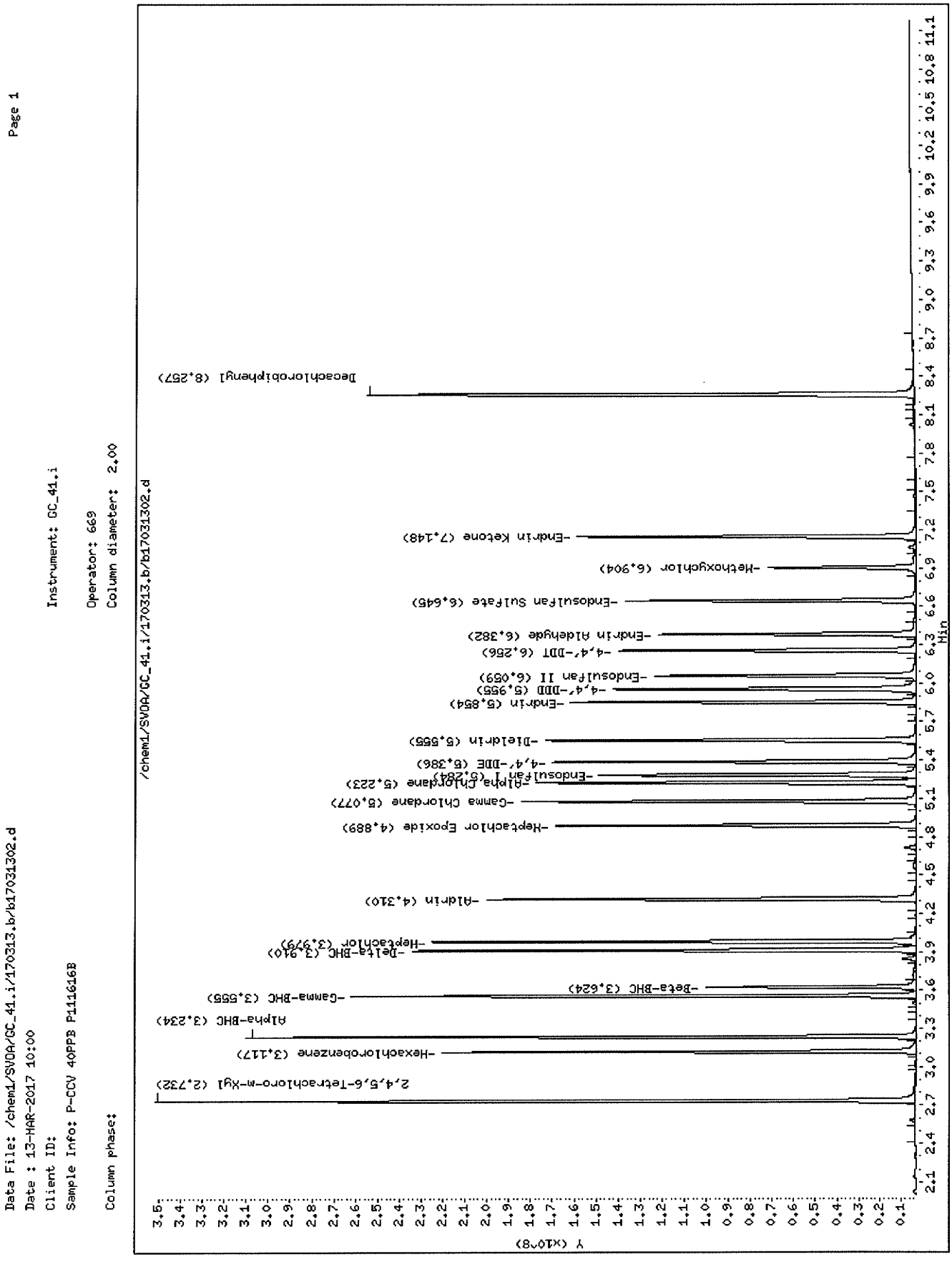

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Data File: /chem1/SVOA/GC_41.i/170313.b/a17031303.d
Report Date: 03/13/2017 12:24

Eurofins CalScience
Calibration Verification Report

Instrument ID: GC_41.i
Sample Name: CH-CCV 500PPB P111616D
Sublist used: chlordane.sub
Method used: /chem1/SVOA/GC_41.i/170313.b/a8081d.m

Injection Date and Time: 13-MAR-2017 10:15
Initial Calibration Date(s): 03-AUG-2016 02-FEB-2017
Initial Calibration Time(s): 11:20 16:04

Target Compounds	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D /Drift	Curve Type
Chlordane	61881343.745	56468037.692	0.00	9	15	Averaged
CHLD (1)	5457068.252	4996345.270	0.00	8	15	Averaged
CHLD (2)	5609104.009	4852718.842	0.00	13	15	Averaged
CHLD (3)	3259984.171	2824280.774	0.00	13	15	Averaged
CHLD (4)	18880788.779	17240337.132	0.00	9	15	Averaged
CHLD (5)	28674398.535	26554355.673	0.00	7	15	Averaged

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Data File: /chem1/SVOA/GC_41.i/170313.b/a17031303.d Page 1
Report Date: 13-Mar-2017 10:34

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170313.b/a17031303.d
Lab Smp Id:
Inj Date : 13-MAR-2017 10:15
Operator : 669 Inst ID: GC_41.i
Smp Info : CH-CCV 500PPB P111616D
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170313.b/a8081d.m
Meth Date : 13-Mar-2017 10:34 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: a17020224.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: chlordane.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppb)	(ppb)
M 32 Chlordane				28234018846	500.000	456.260
33 CHLD (1)	3.978	3.978	0.000	2498172635	500.000	457.786
34 CHLD (2)	4.495	4.495	0.000	2426359421	500.000	432.575
35 CHLD (3)	4.904	4.904	0.000	1412140387	500.000	433.174
36 CHLD (4)	5.096	5.096	0.000	8620168566	500.000	456.557
37 CHLD (5)	5.225	5.225	0.000	13277177836	500.000	463.032

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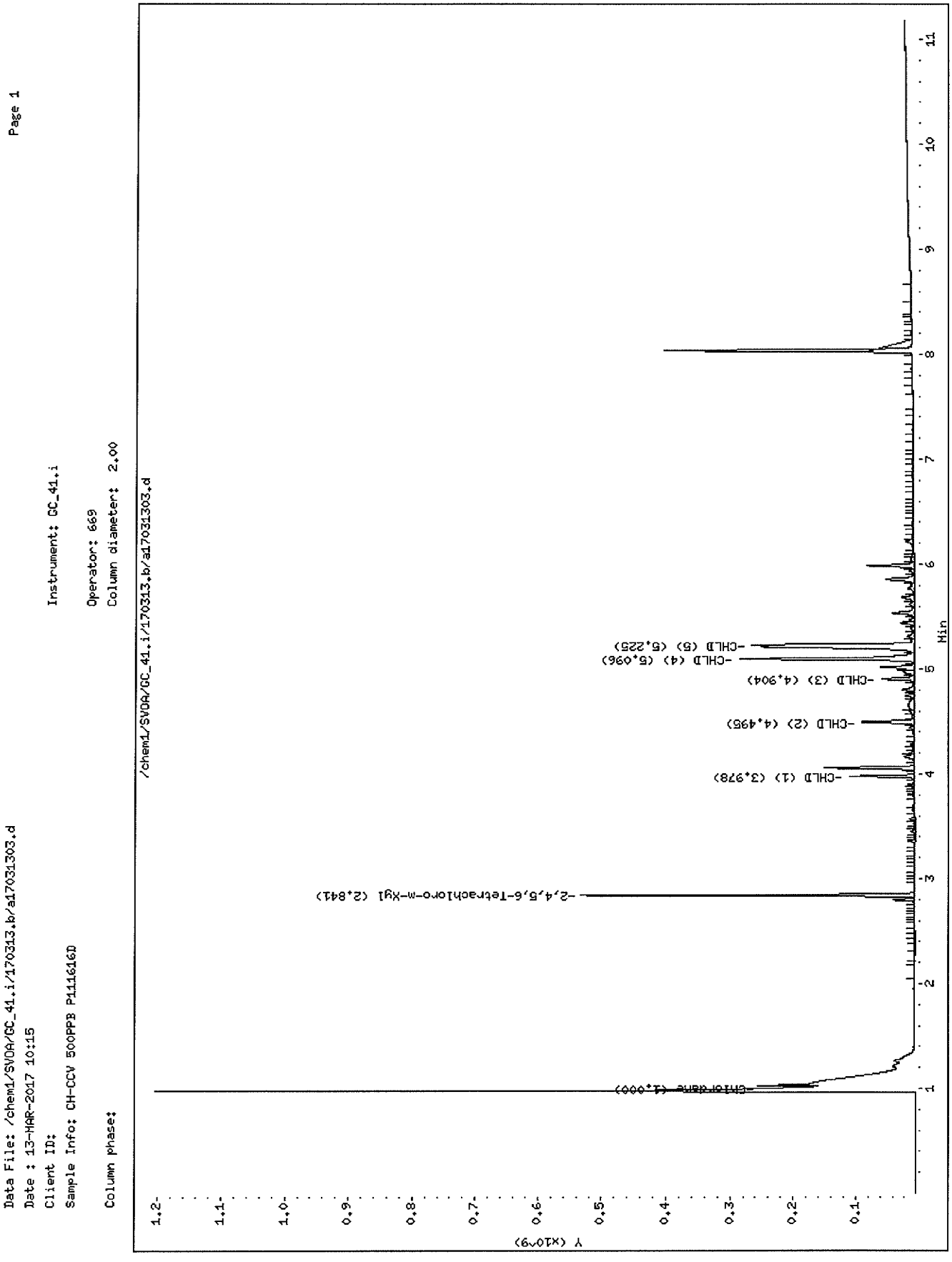

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Data File: /chem1/SVOA/GC_41.i/170313.b/a17031304.d
Report Date: 03/13/2017 12:24

Eurofins CalScience
Calibration Verification Report

Instrument ID: GC_41.i
Sample Name: T-CCV 1000PPB P111616E
Sublist used: toxaphene.sub
Method used: /chem1/SVOA/GC_41.i/170313.b/a8081d.m

Injection Date and Time: 13-MAR-2017 10:30
Initial Calibration Date(s): 03-AUG-2016 02-FEB-2017
Initial Calibration Time(s): 11:20 16:04

Target Compounds	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D /Drift	Curve Type
Toxaphene	23326632.087	21218214.660	0.00	9	15	Averaged
TOXAPHENE (1)	4020356.963	3698081.864	0.00	8	15	Averaged
TOXAPHENE (2)	7044203.974	6401420.728	0.00	9	15	Averaged
TOXAPHENE (3)	3725214.127	3400174.237	0.00	9	15	Averaged
TOXAPHENE (4)	3972429.486	3630471.875	0.00	9	15	Averaged
TOXAPHENE (5)	4564427.536	4088065.957	0.00	10	15	Averaged

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Data File: /chem1/SVOA/GC_41.i/170313.b/a17031304.d Page 1
Report Date: 13-Mar-2017 10:56

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170313.b/a17031304.d
Lab Smp Id:
Inj Date : 13-MAR-2017 10:30
Operator : 669 Inst ID: GC_41.i
Smp Info : T-CCV 1000PPB P111616E
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170313.b/a8081d.m
Meth Date : 13-Mar-2017 10:56 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: a17020224.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: toxaphene.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppb)	(ppb)
M 38 Toxaphene				21218214660	1000.00	909.613
39 TOXAPHENE (1)	5.753	5.753	0.000	3698081864	1000.00	919.839
40 TOXAPHENE (2)	6.152	6.152	0.000	6401420728	1000.00	908.750
41 TOXAPHENE (3)	6.363	6.363	0.000	3400174237	1000.00	912.745
42 TOXAPHENE (4)	6.679	6.679	0.000	3630471875	1000.00	913.917
43 TOXAPHENE (5)	6.772	6.772	0.000	4088065957	1000.00	895.636

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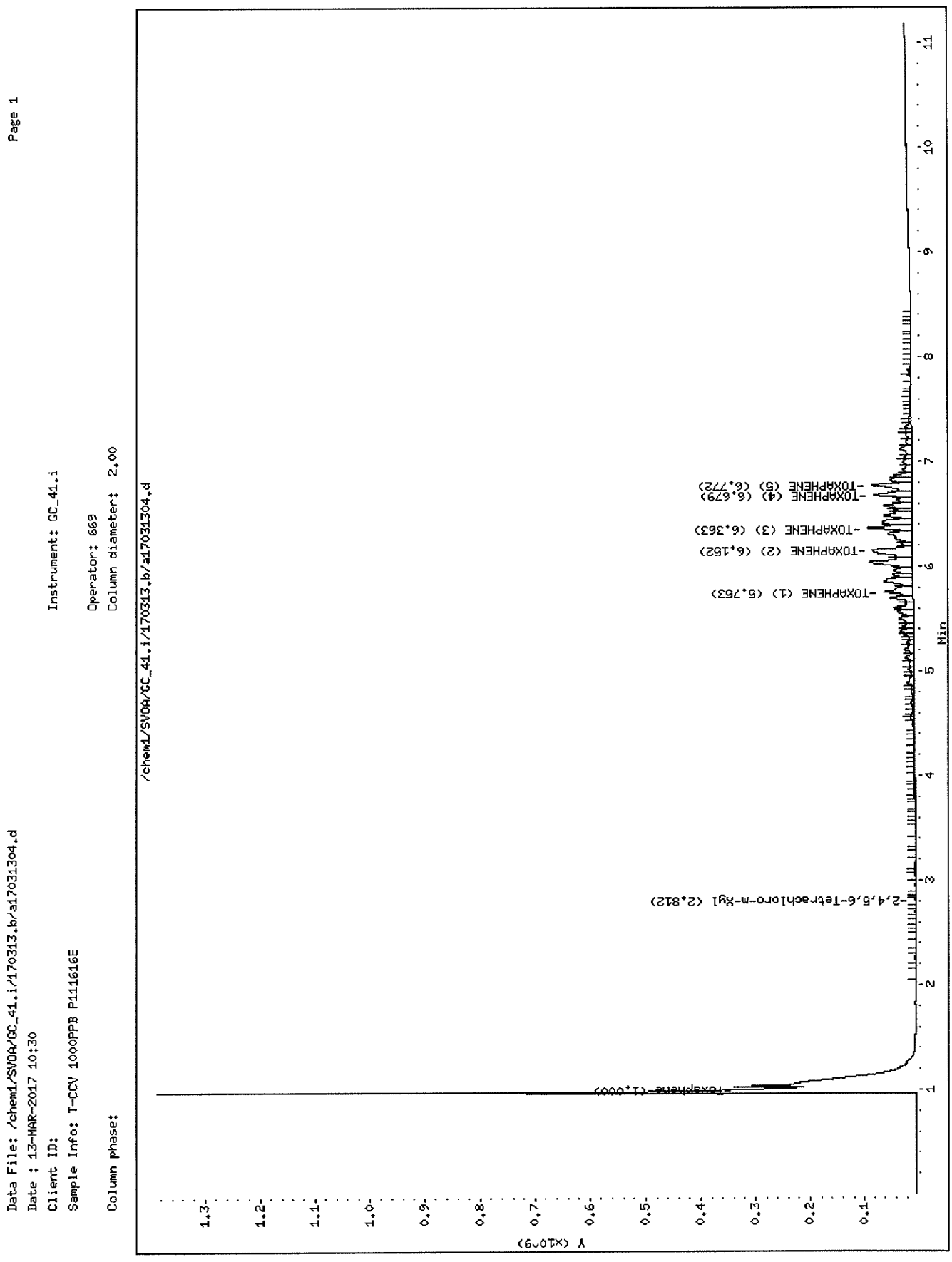

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CONTINUING CALIBRATION VERIFICATION QUALITY CONTROL SHEET
FOR METHOD: EPA 8081A

CCV WORK ORDER: **099-12-528-6543-5152**
BATCH ID:
INITIAL: 170202I005
CCV: 170313A018
INSTRUMENT: GC 41

DATA FILE: /chem1/SVOA/GC_41/170313/a1703132717031327

ANALYZED BY: 669
D/T ANALYZED:
INITIAL: 2017-02-02 15:04
CCV: 2017-03-13 17:17
REVIEWED BY:
D/T REVIEWED:

COMPOUND NAME	TYPE	CALIB MODEL	MIN RF	AVG RF	CCV RF	AMOUNT	CCV CONC	CCV %D	CCV %D CL	STATUS
Alpha-BHC	C	Avg Resp	0.00	177426408.136	166073833.875			6	0-15	PASS
Gamma-BHC	C	Avg Resp	0.00	159897767.428	149923619.650			6	0-15	PASS
Beta-BHC	C	Avg Resp	0.00	63649901.246	58673150.750			8	0-15	PASS
Heptachlor	C	Avg Resp	0.00	159940452.667	151384243.700			5	0-15	PASS
Delta-BHC	C	Avg Resp	0.00	154067570.449	143102405.650			7	0-15	PASS
Aldrin	C	Avg Resp	0.00	142809086.859	135049902.550			5	0-15	PASS
Heptachlor Epoxide	C	Avg Resp	0.00	125378768.220	118053424.175			6	0-15	PASS
Endosulfan I	C	Avg Resp	0.00	109732870.303	106300296.050			3	0-15	PASS
Dieldrin	C	Avg Resp	0.00	122863882.989	118339137.200			4	0-15	PASS
4,4'-DDE	C	Avg Resp	0.00	124024808.220	116495300.225			6	0-15	PASS
Endrin	C	Avg Resp	0.00	103405243.534	113302295.025			-10	0-15	PASS
Endrin Aldehyde	C	Avg Resp	0.00	93294824.011	83040968.875			11	0-15	PASS
4,4'-DDD	C	Avg Resp	0.00	103065734.528	99105702.075			4	0-15	PASS
Endosulfan II	C	Avg Resp	0.00	87872804.593	84154031.700			4	0-15	PASS
4,4'-DDT	C	Avg Resp	0.00	106414657.377	99382173.700			7	0-15	PASS
Endosulfan Sulfate	C	Avg Resp	0.00	100152270.931	94038182.850			6	0-15	PASS
Methoxychlor	C	Avg Resp	0.00	56587893.544	50775529.950			10	0-15	PASS
Chlordane	C	Avg Resp	0.00	61881343.746	56460139.284			9	0-15	PASS
Toxaphene	C	Avg Resp	0.00	23326632.087	19980613.926			14	0-15	PASS
Endrin Ketone	C	Avg Resp	0.00	121626350.390	107891927.275			11	0-15	PASS

Data File: /chem1/SVOA/GC_41.i/170313.b/a17031327.d
Report Date: 03/13/2017 17:37

Eurofins CalScience
Calibration Verification Report

Instrument ID: GC_41.i
Sample Name: P-CCV 40PPB P111616B
Sublist used: PEST.sub
Method used: /chem1/SVOA/GC_41.i/170313.b/a8081d.m

Injection Date and Time: 13-MAR-2017 17:17
Initial Calibration Date(s): 03-AUG-2016 02-FEB-2017
Initial Calibration Time(s): 11:20 16:04

Target Compounds	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D /Drift	Curve Type
Hexachlorobenzene	144193414.101	136356083.605	0.00	5	15	Averaged
Alpha-BHC	177426408.133	166073833.887	0.00	6	15	Averaged
Gamma-BHC	159897767.428	149923619.644	0.00	6	15	Averaged
Beta-BHC	63649901.244	58673150.744	0.00	8	15	Averaged
Delta-BHC	154067570.451	143102405.651	0.00	7	15	Averaged
Heptachlor	159940452.668	151384243.689	0.00	5	15	Averaged
Aldrin	142809086.857	135049902.551	0.00	5	15	Averaged
Heptachlor Epoxide	125378768.217	118053424.164	0.00	6	15	Averaged
Gamma Chlordane	131272395.996	123771582.680	0.00	6	15	Averaged
Alpha Chlordane	125472971.042	118978404.427	0.00	5	15	Averaged
4,4'-DDE	124024808.220	116495300.216	0.00	6	15	Averaged
Endosulfan I	109732870.309	106300296.040	0.00	3	15	Averaged
Dieldrin	122863882.984	118339137.208	0.00	4	15	Averaged
Endrin	103405243.534	113302295.028	0.00	-10	15	Averaged
4,4'-DDD	103065734.526	99105702.078	0.00	4	15	Averaged
Endosulfan II	87872804.592	84154031.705	0.00	4	15	Averaged
4,4'-DDT	106414657.376	99382173.701	0.00	7	15	Averaged
Endrin Aldehyde	93294824.010	83040968.884	0.00	11	15	Averaged
Methoxychlor	56587893.544	50775529.940	0.00	10	15	Averaged
Endosulfan Sulfate	100152270.929	94038182.848	0.00	6	15	Averaged
Endrin Ketone	121626350.395	107891927.282	0.00	11	15	Averaged

Surrogate Standards	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D /Drift	Curve Type
2,4,5,6-Tetrachloro-m-Xylene	106405822.634	97392581.814	0.00	8	15	Averaged
Decachlorobiphenyl	98016789.749	99076649.037	0.00	-1	15	Averaged

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Data File: /chem1/SVOA/GC_41.i/170313.b/a17031327.d
Report Date: 13-Mar-2017 17:37

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170313.b/a17031327.d
Lab Smp Id:
Inj Date : 13-MAR-2017 17:17
Operator : 669 Inst ID: GC_41.i
Smp Info : P-CCV 40PPB P111616B
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170313.b/a8081d.m
Meth Date : 13-Mar-2017 17:37 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: a17020224.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PEST.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)
T	1 2,4,5,6-Tetrachloro-m-Xylene	2.842	2.842	0.000	7791406545	80.0000	73.223
	2 Hexachlorobenzene	3.171	3.171	0.000	5454243344	40.0000	37.825
	3 Alpha-BHC	3.313	3.313	0.000	6642953355	40.0000	37.440
	4 Gamma-BHC	3.600	3.600	0.000	5996944786	40.0000	37.504
	5 Beta-BHC	3.671	3.671	0.000	2346926030	40.0000	36.872
	6 Delta-BHC	3.848	3.848	0.000	5724096226	40.0000	37.153
	7 Heptachlor	4.060	4.060	0.000	6055369748	40.0000	37.860
	8 Aldrin	4.368	4.368	0.000	5401996102	40.0000	37.826
	12 Heptachlor Epoxide	4.972	4.972	0.000	4722136967	40.0000	37.662
	13 Gamma Chlordane	5.097	5.097	0.000	4950863307	40.0000	37.714
	15 Alpha Chlordane	5.229	5.229	0.000	4759136177	40.0000	37.929
	16 4,4'-DDE	5.294	5.294	0.000	4659812009	40.0000	37.571
	17 Endosulfan I	5.369	5.369	0.000	4252011842	40.0000	38.748
	19 Dieldrin	5.603	5.603	0.000	4733565488	40.0000	38.526
	21 Endrin	5.833	5.833	0.000	4532091801	40.0000	43.828
	23 4,4'-DDD	5.881	5.881	0.000	3964228083	40.0000	38.463
	24 Endosulfan II	6.049	6.049	0.000	3366161268	40.0000	38.307
	25 4,4'-DDT	6.151	6.151	0.000	3975286948	40.0000	37.356
	26 Endrin Aldehyde	6.447	6.447	0.000	3321638755	40.0000	35.603
	27 Methoxychlor	6.603	6.603	0.000	2031021198	40.0000	35.891
	29 Endosulfan Sulfate	6.858	6.858	0.000	3761527314	40.0000	37.558

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Data File: /chem1/SVOA/GC_41.i/170313.b/a17031327.d
Report Date: 13-Mar-2017 17:37

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
30 Endrin Ketone	7.128	7.128	0.000	4315677091	40.0000	35.483
T 31 Decachlorobiphenyl	8.035	8.035	0.000	7926131923	80.0000	80.865

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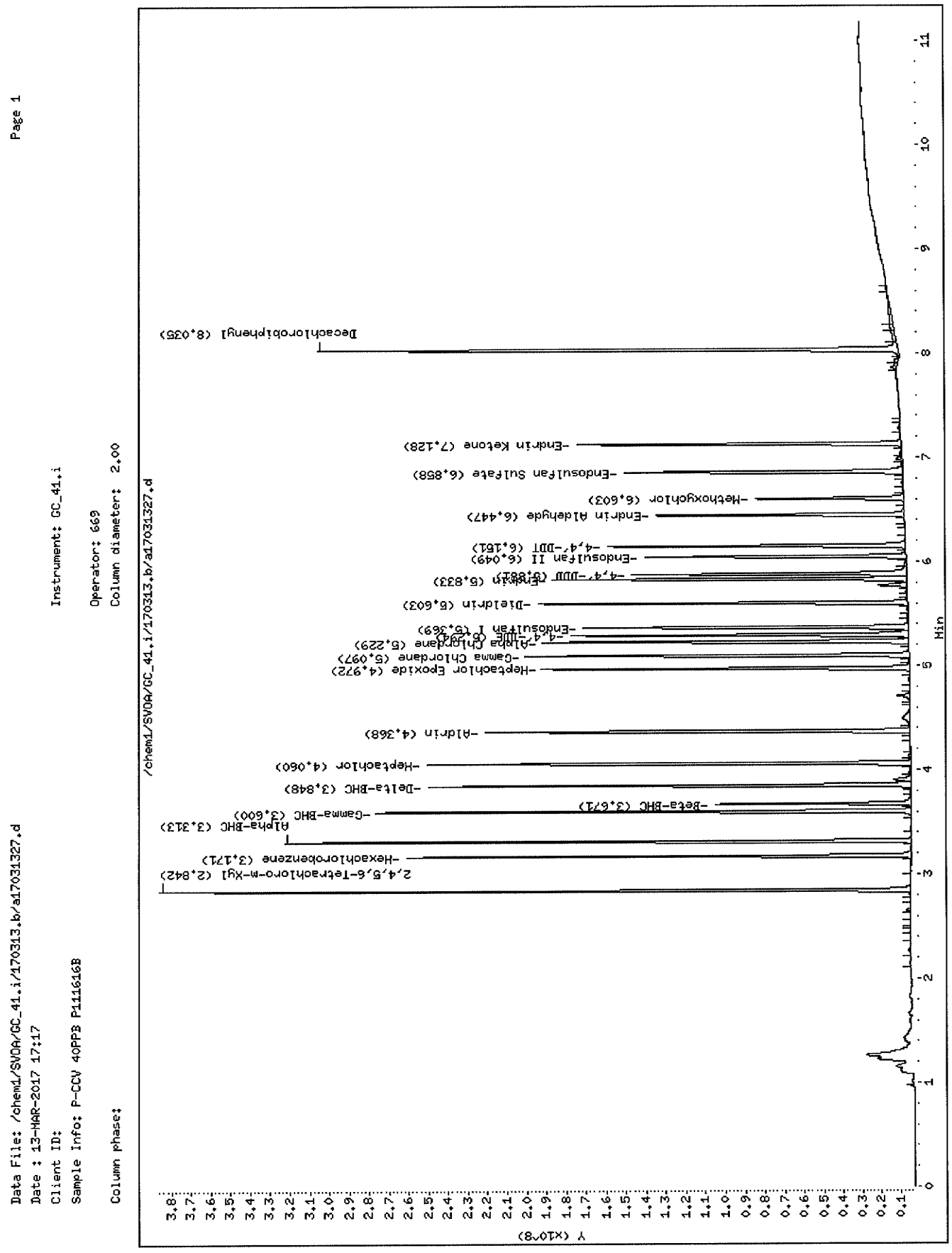

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Data File: /chem1/SVOA/GC_41.i/170313.b/b17031327.d
Report Date: 03/13/2017 17:37

Eurofins CalScience
Calibration Verification Report

Instrument ID: GC_41.i
Sample Name: P-CCV 40PPB P111616B
Sublist used: PEST.sub
Method used: /chem1/SVOA/GC_41.i/170313.b/b8081d.m

Injection Date and Time: 13-MAR-2017 17:17
Initial Calibration Date(s): 03-AUG-2016 02-FEB-2017
Initial Calibration Time(s): 11:20 16:04

Target Compounds	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D /Drift	Curve Type
Hexachlorobenzene	121039281.509	106520193.237	0.00	12	15	Averaged
Alpha-BHC	168363411.517	148671489.206	0.00	12	15	Averaged
Gamma-BHC	150676638.658	133962734.712	0.00	11	15	Averaged
Beta-BHC	60871457.585	54232446.616	0.00	11	15	Averaged
Delta-BHC	146126717.737	129431070.470	0.00	11	15	Averaged
Heptachlor	148132875.736	132677708.547	0.00	10	15	Averaged
Aldrin	136336779.560	121022547.540	0.00	11	15	Averaged
Heptachlor Epoxide	117360226.284	104034458.726	0.00	11	15	Averaged
Gamma Chlordane	124002610.334	112021677.126	0.00	10	15	Averaged
Alpha Chlordane	119112025.388	106244566.775	0.00	11	15	Averaged
4,4'-DDE	117913836.141	105034622.113	0.00	11	15	Averaged
Endosulfan I	104775700.255	93691606.400	0.00	11	15	Averaged
Dieldrin	117660246.461	106011028.363	0.00	10	15	Averaged
Endrin	96860666.867	101678281.788	0.00	-5	15	Averaged
4,4'-DDD	100656240.271	100363887.938	0.00	0	15	Averaged
Endosulfan II	86597804.012	77380149.388	0.00	11	15	Averaged
4,4'-DDT	98079611.041	87233919.175	0.00	11	15	Averaged
Endrin Aldehyde	88975262.906	76312570.875	0.00	14	15	Averaged
Methoxychlor	54682460.163	49985234.900	0.00	9	15	Averaged
Endosulfan Sulfate	96777627.454	85017960.025	0.00	12	15	Averaged
Endrin Ketone	114945902.551	97646682.863	0.00	15	15	Averaged

Surrogate Standards	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D /Drift	Curve Type
2,4,5,6-Tetrachloro-m-Xylene	98562381.600	86766752.603	0.00	12	15	Averaged
Decachlorobiphenyl	94662693.353	81583711.414	0.00	14	15	Averaged

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Data File: /chem1/SVOA/GC_41.i/170313.b/b17031327.d Page 1
Report Date: 13-Mar-2017 17:37

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170313.b/b17031327.d
Lab Smp Id:
Inj Date : 13-MAR-2017 17:17
Operator : 669 Inst ID: GC_41.i
Smp Info : P-CCV 40PPB P111616B
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170313.b/b8081d.m
Meth Date : 13-Mar-2017 17:37 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: b17020224.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PEST.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ppb)	(ppb)
$	1 2,4,5,6-Tetrachloro-m-Xylene	2.735	2.735	0.000	6941340208	80.0000	70.425
	2 Hexachlorobenzene	3.120	3.120	0.000	4260807729	40.0000	35.201
	3 Alpha-BHC	3.237	3.237	0.000	5946859568	40.0000	35.321
	4 Gamma-BHC	3.557	3.557	0.000	5358509388	40.0000	35.562
	5 Beta-BHC	3.627	3.627	0.000	2169297865	40.0000	35.637
	6 Delta-BHC	3.913	3.913	0.000	5177242819	40.0000	35.429
	7 Heptachlor	3.982	3.982	0.000	5307108342	40.0000	35.826
	8 Aldrin	4.312	4.312	0.000	4840901902	40.0000	35.506
	11 Heptachlor Epoxide	4.891	4.891	0.000	4161378349	40.0000	35.458
	13 Gamma Chlordane	5.079	5.079	0.000	4480867085	40.0000	36.135
	15 Alpha Chlordane	5.225	5.225	0.000	4249782671	40.0000	35.678
	16 Endosulfan I	5.286	5.286	0.000	3747664256	40.0000	35.768
	17 4,4'-DDE	5.388	5.388	0.000	4201384885	40.0000	35.630
	18 Dieldrin	5.556	5.556	0.000	4240441135	40.0000	36.039
	20 Endrin	5.856	5.856	0.000	4067131271	40.0000	41.989
	23 4,4'-DDD	5.956	5.956	0.000	4014555517	40.0000	39.883
	24 Endosulfan II	6.060	6.060	0.000	3095205975	40.0000	35.742
	25 4,4'-DDT	6.257	6.257	0.000	3489356767	40.0000	35.576
	26 Endrin Aldehyde	6.384	6.384	0.000	3052502835	40.0000	34.307
	27 Endosulfan Sulfate	6.646	6.646	0.000	3400718401	40.0000	35.139
	29 Methoxychlor	6.905	6.905	0.000	1999409396	40.0000	36.563

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Data File: /chem1/SVOA/GC_41.i/170313.b/b17031327.d
Report Date: 13-Mar-2017 17:37

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
30 Endrin Ketone	7.149	7.149	0.000	3905867315	40.0000	33.980
$ 31 Decachlorobiphenyl	8.256	8.256	0.000	6526696913	80.0000	68.946

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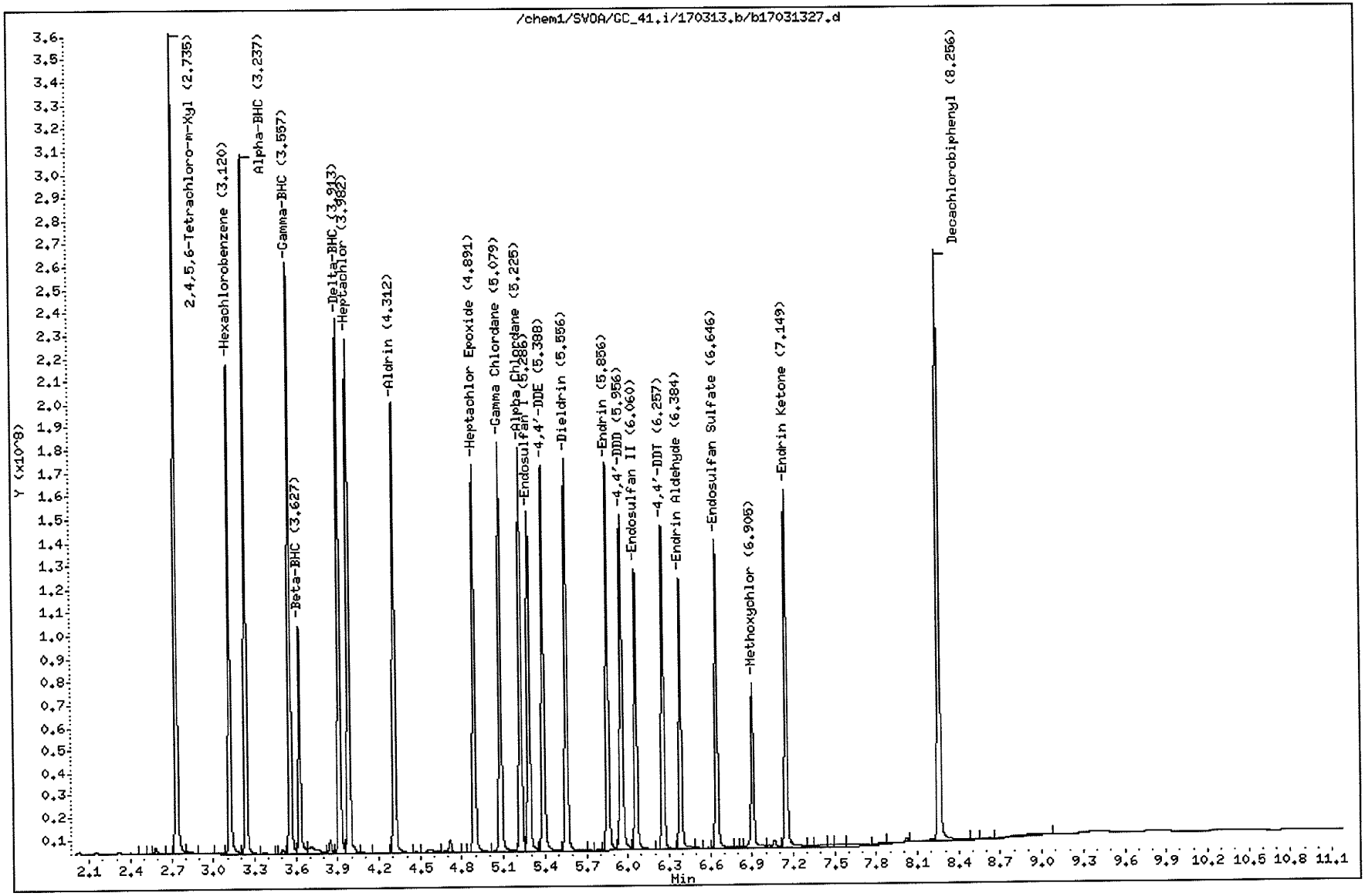
Data File: /chem1/SVOA/GC_41.i/170313.b/b17031327.d
Date : 13-MAR-2017 17:17
Client ID:
Sample Info: P-CCV 40PPB P111616B

Instrument: GC_41.i

Operator: 669
Column diameter: 2.00

Column phase:



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Data File: /chem1/SVOA/GC_41.i/170313.b/a17031325.d
Report Date: 03/13/2017 17:37

Eurofins CalScience
Calibration Verification Report

Instrument ID: GC_41.i
Sample Name: CH-CCV 500PPB P111616D
Sublist used: chlordane.sub
Method used: /chem1/SVOA/GC_41.i/170313.b/a8081d.m

Injection Date and Time: 13-MAR-2017 16:31
Initial Calibration Date(s): 03-AUG-2016 02-FEB-2017
Initial Calibration Time(s): 11:20 16:04

Target Compounds	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D /Drift	Curve Type
Chlordane	61881343.745	56460139.283	0.00	9	15	Averaged
CHLD (1)	5457068.252	5023567.338	0.00	8	15	Averaged
CHLD (2)	5609104.009	5166096.244	0.00	8	15	Averaged
CHLD (3)	3259984.171	2778131.564	0.00	15	15	Averaged
CHLD (4)	18880788.779	17223668.150	0.00	9	15	Averaged
CHLD (5)	28674398.535	26268675.987	0.00	8	15	Averaged

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Data File: /chem1/SVOA/GC_41.i/170313.b/a17031325.d Page 1
Report Date: 13-Mar-2017 16:49

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170313.b/a17031325.d
Lab Smp Id:
Inj Date : 13-MAR-2017 16:31
Operator : 669 Inst ID: GC_41.i
Smp Info : CH-CCV 500PPB P111616D
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170313.b/a8081d.m
Meth Date : 13-Mar-2017 16:49 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: a17020224.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: chlordane.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
M 32 Chlordane				28230069642	500.000	456.196
33 CHLD (1)	3.981	3.981	0.000	2511783669	500.000	460.280
34 CHLD (2)	4.496	4.496	0.000	2583048122	500.000	460.509
35 CHLD (3)	4.905	4.905	0.000	1389065782	500.000	426.095
36 CHLD (4)	5.097	5.097	0.000	8611834075	500.000	456.116
37 CHLD (5)	5.226	5.226	0.000	13134337994	500.000	458.051

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Data File: /chem1/SVOA/GC_41.i/170313.b/a17031325.d

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Date : 13-MAR-2017 16:31

Client ID:

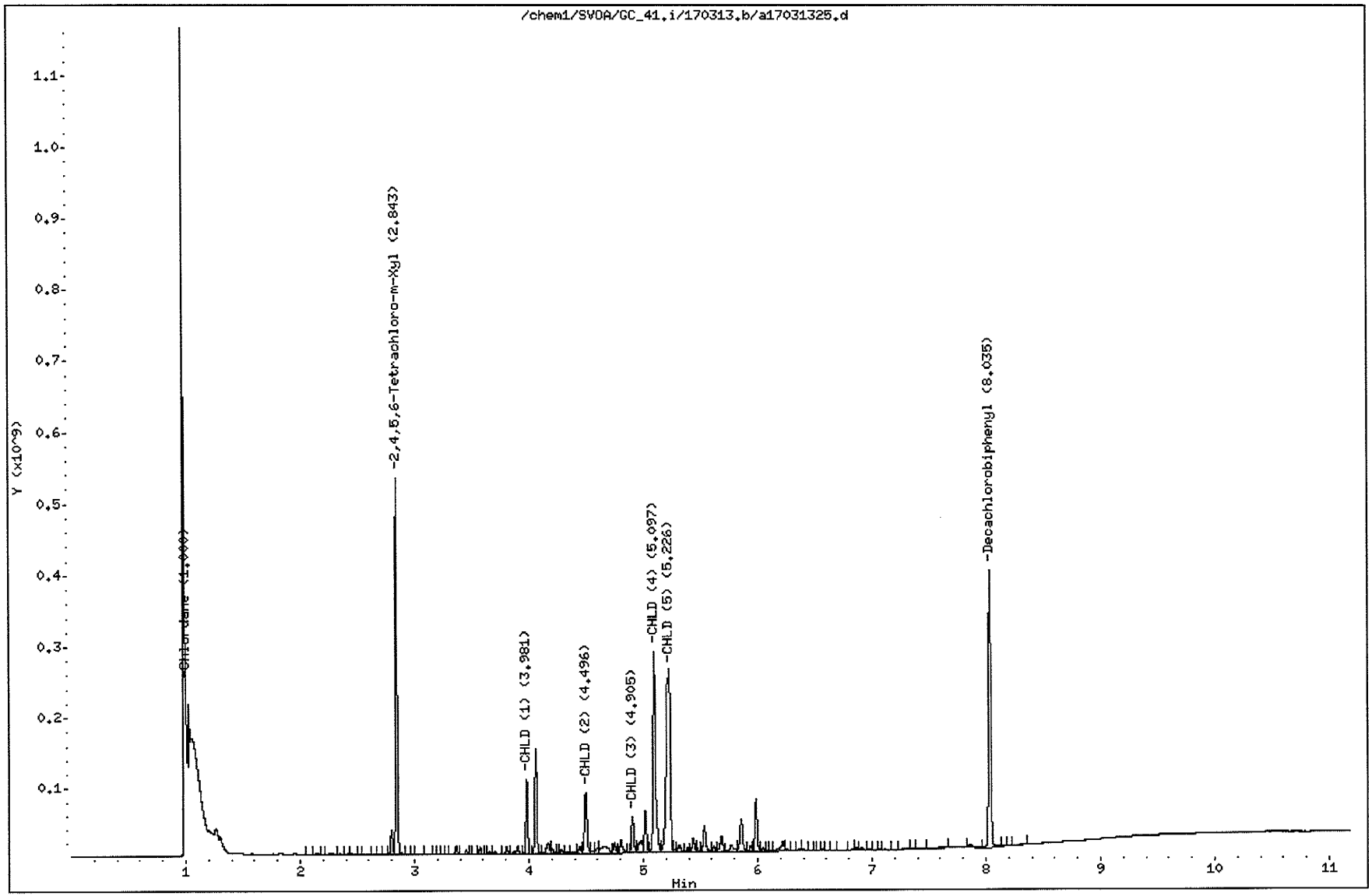
Instrument: GC_41.i

Sample Info: CH-CCV 500PPB P111616D

Operator: 669

Column phase:

Column diameter: 2.00



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Data File: /chem1/SVOA/GC_41.i/170313.b/a17031326.d
Report Date: 03/13/2017 17:37

Eurofins CalScience
Calibration Verification Report

Instrument ID: GC_41.i
Sample Name: T-CCV 1000PPB P111616E
Sublist used: toxaphene.sub
Method used: /chem1/SVOA/GC_41.i/170313.b/a8081d.m

Injection Date and Time: 13-MAR-2017 16:47
Initial Calibration Date(s): 03-AUG-2016 02-FEB-2017
Initial Calibration Time(s): 11:20 16:04

Target Compounds	ICAL RRF or Amount	ICV RRF	Min. RRF	%D / %Drift	Max%D/Drift	Curve Type
Toxaphene	23326632.087	19980613.926	0.00	14	15	Averaged
TOXAPHENE (1)	4020356.963	3438015.909	0.00	14	15	Averaged
TOXAPHENE (2)	7044203.974	5985988.839	0.00	15	15	Averaged
TOXAPHENE (3)	3725214.127	3207889.879	0.00	14	15	Averaged
TOXAPHENE (4)	3972429.486	3446863.735	0.00	13	15	Averaged
TOXAPHENE (5)	4564427.536	3901855.565	0.00	15	15	Averaged

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Data File: /chem1/SVOA/GC_41.i/170313.b/a17031326.d
Report Date: 13-Mar-2017 17:20

Eurofins Calscience

Data file : /chem1/SVOA/GC_41.i/170313.b/a17031326.d
Lab Smp Id:
Inj Date : 13-MAR-2017 16:47
Operator : 669 Inst ID: GC_41.i
Smp Info : T-CCV 1000PPB P111616E
Misc Info :
Comment :
Method : /chem1/SVOA/GC_41.i/170313.b/a8081d.m
Meth Date : 13-Mar-2017 17:20 uhhn Quant Type: ESTD
Cal Date : 02-FEB-2017 16:04 Cal File: a17020224.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: toxaphene.sub
Target Version: 3.50
Processing Host: US26TAR4

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
M 38 Toxaphene				19980613926	1000.00	856.558
39 TOXAPHENE (1)	5.754	5.754	0.000	3438015909	1000.00	855.151
40 TOXAPHENE (2)	6.153	6.153	0.000	5985988839	1000.00	849.775
41 TOXAPHENE (3)	6.365	6.365	0.000	3207889879	1000.00	861.128
42 TOXAPHENE (4)	6.680	6.680	0.000	3446863735	1000.00	867.696
43 TOXAPHENE (5)	6.773	6.773	0.000	3901855565	1000.00	854.840

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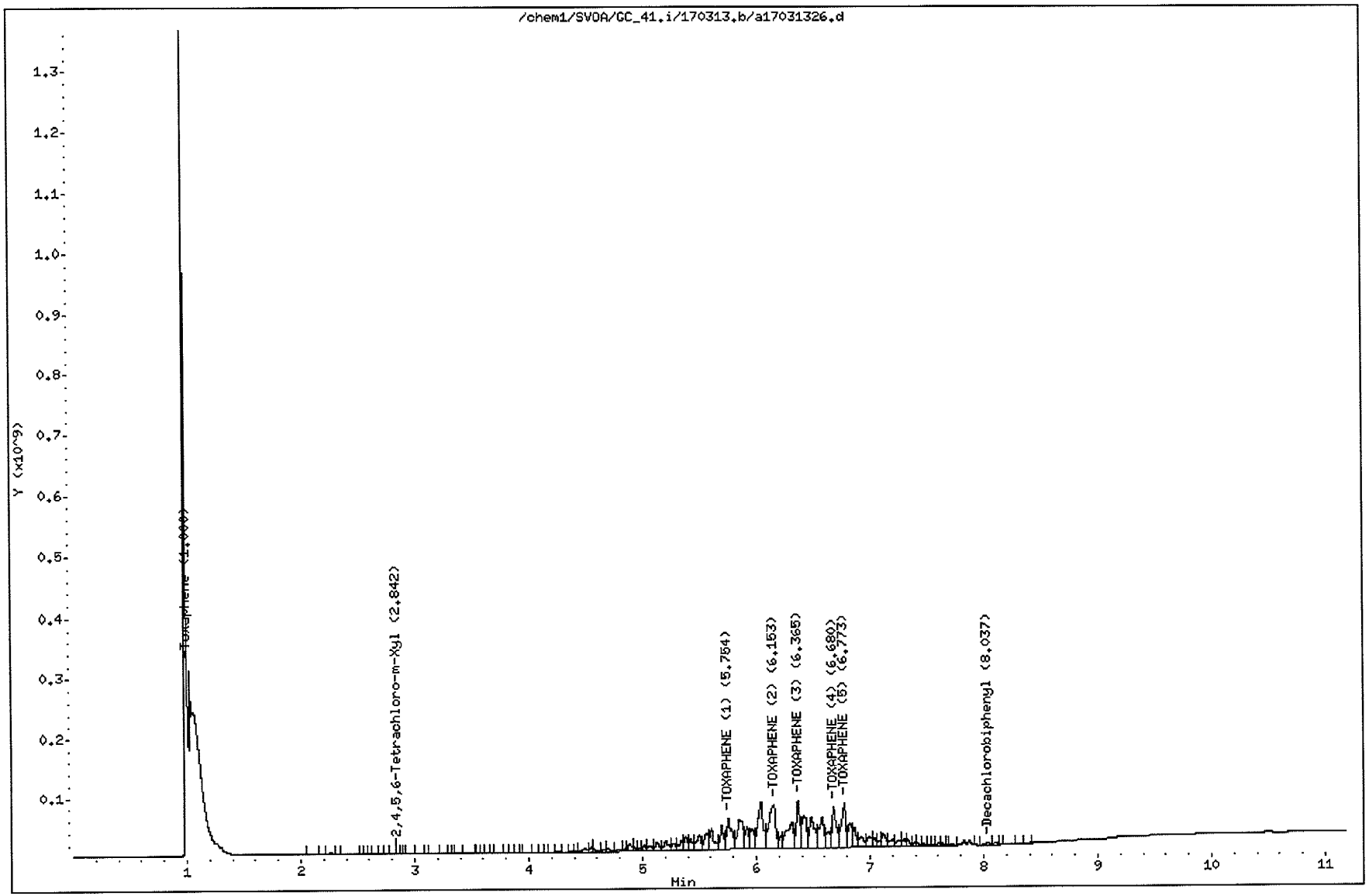
Data File: /chem1/SVOA/GC_41.i/170313.b/a17031326.d
Date : 13-MAR-2017 16:47
Client ID:
Sample Info: T-CCV 1000PPB P111616E

Instrument: GC_41.i

Operator: 669
Column diameter: 2.00

Column phase:



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EPA METHOD 8081A
Organochlorine Pesticides

Run Logs

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Sequence: C:\CHEM32\1\SEQUENCE\170202.S
Table: Front DataPath: W:\GC_41\DATA\2017\170202\

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1	100	17020200	IB S007-044-07	8081D		02-Feb-17, 10:03:18
2	1	17020201	EVAL 50PPB P111616A	8081D		02-Feb-17, 10:18:25
3	2	17020202	P-ICAL1 P091716E 10PPB	8081D		02-Feb-17, 10:33:23
4	3	17020203	P-ICAL2 P091716F 20PPB	8081D		02-Feb-17, 10:48:23
5	4	17020204	P-ICAL3 P091716G 40PPB	8081D		02-Feb-17, 11:03:27
6	5	17020205	P-ICAL4 P091716H 60PPB	8081D		02-Feb-17, 11:18:34
7	6	17020206	P-ICAL5 P091716J 80PPB	8081D		02-Feb-17, 11:33:32
8	7	17020207	P-ICV P091716L 40PPB	8081D		02-Feb-17, 11:48:33
9	8	17020208	CH-ICAL1 P091716P 100PPB	8081D		02-Feb-17, 12:03:32
10	9	17020209	CH-ICAL2 P091716Q 250PPB	8081D		02-Feb-17, 12:18:41
11	10	17020210	CH-ICAL3 P091716R 500PPB	8081D		02-Feb-17, 12:33:44
12	11	17020211	CH-ICAL4 P091716S 750PPB	8081D		02-Feb-17, 12:48:46
13	12	17020212	CH-ICAL5 P091716T 2000PPB	8081D		02-Feb-17, 13:03:46
14	13	17020213	CH-ICVP091716V 500PPB	8081D		02-Feb-17, 13:18:54
15	14	17020214	TOX-ICAL1 P091716X 200PPB	8081D		02-Feb-17, 13:33:55
16	15	17020215	TOX-ICAL2 P091716Y 500PPB	8081D		02-Feb-17, 13:48:58
17	16	17020216	TOX-ICAL3 P091716Z 1000PPB	8081D		02-Feb-17, 14:04:00
18	17	17020217	TOX-ICAL4 P091716AA 1500PPB	8081D		02-Feb-17, 14:19:07
19	18	17020218	TOX-ICAL5 P091716BB 4000PPB	8081D		02-Feb-17, 14:34:07
20	19	17020219	TOX-ICV P091716DD 1000PPB	8081D		02-Feb-17, 14:49:08
21	20	17020220	ISOMER-ICAL1 P091716GG 10PPB	8081D		02-Feb-17, 15:04:09
22	21	17020221	ISOMER-ICAL2 P091716HH 20PPB	8081D		02-Feb-17, 15:19:15
23	22	17020222	ISOMER-ICAL3 P091716II 40PPB	8081D		02-Feb-17, 15:34:16
24	23	17020223	ISOMER-ICAL4 P091716JJ 60PPB	8081D		02-Feb-17, 15:49:17
25	24	17020224	ISOMER-ICAL5 P091716KK 80PPB	8081D		02-Feb-17, 16:04:16
26	25	17020225	ISOMER-ICV P112816D 40PPB	8081D		02-Feb-17, 16:19:26

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Sequence: W:\GC_41\SEQUENCE\170313.S
Table: Front DataPath: W:\GC_41\DATA\2017\170313\

Line	Vial	File	Name	Method	InjVolume	Acquired
1	100	17031300	IB S007-044-07	8081D		13-Mar-17, 09:30:38
2	1	17031301	EVAL 50PPB P111616A	8081D		13-Mar-17, 09:45:41
3	2	17031302	P-CCV 40PPB P111616B	8081D	A017	13-Mar-17, 10:00:43
4	3	17031303	CH-CCV 500PPB P111616D	8081D		13-Mar-17, 10:15:49
5	4	17031304	T-CCV 1000PPB P111616E	8081D		13-Mar-17, 10:30:59
6	5	17031305	ISOMER-CCV 40PPB P111616F	8081D		13-Mar-17, 10:46:03
7	6	17031306	~~LCS~~ 170309L07 MB	8081D		13-Mar-17, 11:01:09
8	7	17031307	~~MB~~ 170309L07 LCS 80 4/6/17	8081D		13-Mar-17, 11:16:13
9	8	17031308	MS 17-03-0588-1 170309S07	8081D		13-Mar-17, 11:31:24
10	9	17031309	MSD 17-03-0588-1 170309S07	8081D		13-Mar-17, 11:46:29
11	10	17031310	17-03-0588-1	8081D		13-Mar-17, 12:01:37
12	11	17031311	17-03-0661-1	8081D		13-Mar-17, 12:16:40
13	12	17031312	17-03-0661-2	8081D		13-Mar-17, 12:31:50
14	13	17031313	17-03-0661-3	8081D		13-Mar-17, 12:46:56
15	14	17031314	17-03-0661-4	8081D		13-Mar-17, 13:02:02
16	15	17031315	17-03-0467-1	8081D		13-Mar-17, 13:17:07
17	16	17031316	17-03-0531-19	8081D		13-Mar-17, 13:32:17
18	17	17031317	17-03-0531-26	8081D		13-Mar-17, 13:47:20
19	18	17031318	MB 170308L09	8081D		13-Mar-17, 14:02:24
20	19	17031319	MS 17-03-0153-1 170308S09	8081D		13-Mar-17, 14:17:24
21	20	17031320	MSD 17-03-0153-1 170308S09	8081D		13-Mar-17, 14:32:29
22	21	17031321	17-03-0153-1	8081D		13-Mar-17, 14:47:29
23	22	17031322	17-03-0153-2	8081D		13-Mar-17, 15:14:07
24	23	17031323	LCS 170308L09	8081D		13-Mar-17, 15:28:13
25	24	17031324	LCSD 170308L09	8081D		13-Mar-17, 15:43:21
26	3	17031325	CH-CCV 500PPB P111616D	8081D		13-Mar-17, 16:31:59
27	4	17031326	T-CCV 1000PPB P111616E	8081D		13-Mar-17, 16:47:06
28	2	17031327	P-CCV 40PPB P111616B	8081D	A018	13-Mar-17, 17:17:18
29	5	17031328	ISOMER-CCV 40PPB P111616F	8081D		13-Mar-17, 17:32:18

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EPA METHOD 8081A
Organochlorine Pesticides

Preparation Logs

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Analysis Method (EPA Method): ☐ 608 ☑ 8081 ☐ 8082 ☐ 8141 ☐ 8310 ☐ TO-13 ☐ TO-4
☐ 8270 (☐ Soil ☐ Soil SIM SUPER ☐ PAH ☐ SIM PAH ☐ SIM Pest ☐ SIM PCB cong. ☐ SIM FL)

Extraction Method (EPA Method): ☐ 3510 ☐ 3520 ☐ 3540 ☐ 3541 ☑ 3545 ☐ 3550 ☐ 3580

Analyst ID#: Measuring Sample- 110 Start Extraction- 610/787 Blow Down- 110 / 1084 Clean Up-

Matrix: ☑ Soil ☐ Aqueous ☐ Oil ☐ Wipe ☐ Filter ☐ Tissue ☐ Air

Balance ID#: 20 Filter ID#: 507-17-17 ASE ID#: 10 Soxtherm ID#: Orbit Shaker ID#: Sonicator ID#:

Ext. Start Date/Time: 03/09/17 9:00 Ext. End Date/Time: 03/09/17 11:45

Sand or Wipe ID#: 507-19-19

Drying Agent: ☑ Na_2SO_4 ☑ Diatomaceous Earth

Drying Agent(s) ID#: 507-44-18 / 507-22-03

Surrogate Std ID# & Volume Added (mL): S101316A 0.5

Spike Std ID# & Volume Added (mL): S101916B 0.5 Spike Added to: ☑ LCS ☐ LCSD ☑ MS ☑ MSD

Extraction Solvent: ☐ $MeCl_2$ ☑ 1:1 Hexane-Acetone ☐ 1:1 $MeCl_2$-Acetone ☐ 9:1 Hexane-Diethyl-ether ☐ Acetonitrile

Extraction Solvent ID#: 507-44-07 / 507-44-08 Exchange Solvent (☑ Hexane ☐ Acetonitrile) ID#: 507-44-07

Clean Up Start Date & Time: Clean Up End Date & Time:

Clean Up: ☐ 3620 Florisil ☐ 3630 SGC ☐ 3660 Sulfur ☐ 3665 Acid ☐ Other Cartridge ID#:

Clean Up Reagent ID#: Cartridge Conditioning Column Pre-Elution Reagent ID#:

MB/LCS/MS Batch #: 170309L07

Cel ID#:	Sample W (g) / V (mL) Initial	Final	Clean Up Performed	Comments
MB	20.0	10	☐	
LCS	20.0	10	☐	
LCSD NA	—	—	☐	
MS 17-03-0588-1A	20.1	10	☐	
MSD | -1A	20.1	10	☐	
| -1A	20.1	10	☐	
17-03-0467-1A	20.0	10	☐	
17-03-0531-19A	20.0	10	☐	
| -26A	20.1	10	☐	
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Peer Reviewed by: 787 Peer Reviewed Date: 03/09/17

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