



Alpha

Alpha Analytical Laboratories, Inc.

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Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

11 March 2019

Sample Traps, LLC

Attn: Quality Control Manager

262 Rickenbacker Circle

Livermore, CA 94551

RE: QC- 40ml Amber VOA- HCl

Work Order: 19B2085

Enclosed are the results of analyses for samples received by the laboratory on 02/19/19 08:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Chelsea L. Sandelin

Project Manager



Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com
Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

Project Manager: Quality Control Manager
Project: QC- 40ml Amber VOA- HCl
Project Number: Silicone Batch Number 2018120302

Reported:
03/11/19 11:18

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | T: 925-828-6226 | F: 925-828-6309 | ELAP# 2728
Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | T: 916-686-5190 | F: 916-686-5192 | ELAP# 2922
North Bay: 110 Liberty Street | Petaluma, CA 94952 | T: 707-769-3128 | F: 707-769-8093 | ELAP# 2303
San Diego Service Center: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | T: 760-930-2555 | F: 760-930-2510

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
A9045CVBS - 01	19B2085-01	Water	02/15/19 00:00	02/19/19 08:00
A9045CVBS - 02	19B2085-02	Water	02/15/19 00:00	02/19/19 08:00



Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com
 Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 40ml Amber VOA- HCl Project Number: Silicone Batch Number 2018120302	Reported: 03/11/19 11:18
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Volatile Organic Compounds by EPA Method 524.2

Analyte	Result	MDL	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit	Units							
A9045CVBS - 02 (19B2085-02) Water Sampled: 02/15/19 00:00 Received: 02/19/19 08:00											
Acetone	ND	2.0	5.0	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Acrylonitrile	ND	0.40	5.0	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Benzene	ND	0.30	0.30	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Bromobenzene	ND	0.20	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Bromochloromethane	ND	0.40	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Bromodichloromethane	ND	0.20	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Bromoform	ND	0.30	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Bromomethane	ND	0.40	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
n-Butylbenzene	ND	0.50	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
sec-Butylbenzene	ND	0.50	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
tert-Butylbenzene	ND	0.50	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Carbon disulfide	ND	0.40	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Carbon tetrachloride	ND	0.30	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Chlorobenzene	ND	0.20	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Chloroethane	ND	0.30	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Chloroform	ND	0.30	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Chloromethane	ND	0.40	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
2-Chlorotoluene	ND	0.20	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
4-Chlorotoluene	ND	0.20	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Dibromochloromethane	ND	0.30	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
1,2-Dibromoethane (EDB)	ND	0.20	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Dibromomethane	ND	0.20	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
1,2-Dichlorobenzene	ND	0.20	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
1,3-Dichlorobenzene	ND	0.20	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
1,4-Dichlorobenzene	ND	0.20	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
trans-1,4-Dichloro-2-butene	ND	0.90	5.0	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Dichlorodifluoromethane	ND	0.50	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
1,1-Dichloroethane	ND	0.20	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
1,2-Dichloroethane	ND	0.50	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
1,1-Dichloroethene	ND	0.30	0.30	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
cis-1,2-Dichloroethene	ND	0.40	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
trans-1,2-Dichloroethene	ND	0.40	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
1,2-Dichloropropane	ND	0.20	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
1,3-Dichloropropane	ND	0.50	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
2,2-Dichloropropane	ND	0.30	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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 262 Rickenbacker Circle
 Livermore CA, 94551

Project Manager: Quality Control Manager
 Project: QC- 40ml Amber VOA- HCl
 Project Number: Silicone Batch Number 2018120302

Reported:
 03/11/19 11:18

Volatile Organic Compounds by EPA Method 524.2

Analyte	Result	MDL	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit	Units							
A9045CVBS - 02 (19B2085-02) Water Sampled: 02/15/19 00:00 Received: 02/19/19 08:00											
1,1-Dichloropropene	ND	0.50	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
cis-1,3-Dichloropropene	ND	0.30	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
trans-1,3-Dichloropropene	ND	0.30	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
1,3-Dichloropropene (total)	ND	0.30	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
2-Hexanone	ND	0.50	5.0	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Ethylbenzene	ND	0.50	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Hexachlorobutadiene	ND	0.40	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Isopropylbenzene	ND	0.50	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
p-Isopropyltoluene	ND	0.50	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Methyl ethyl ketone	ND	0.60	1.0	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Methyl iodide	ND	0.40	2.0	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Methyl isobutyl ketone	ND	0.80	1.0	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Methylene chloride	ND	0.40	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Naphthalene	ND	0.50	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
n-Propylbenzene	ND	0.50	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Styrene	ND	0.20	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
1,1,1,2-Tetrachloroethane	ND	0.40	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
1,1,2,2-Tetrachloroethane	ND	0.20	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Tetrachloroethene	ND	0.50	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Toluene	ND	0.30	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
1,2,3-Trichlorobenzene	ND	0.40	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
1,2,4-Trichlorobenzene	ND	0.40	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
1,1,1-Trichloroethane	ND	0.40	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
1,1,2-Trichloroethane	ND	0.20	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Trichloroethene	ND	0.50	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Trichlorofluoromethane	ND	0.50	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Trichlorotrifluoroethane	ND	0.40	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
1,2,3-Trichloropropane	ND	0.50	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
1,2,4-Trimethylbenzene	ND	0.50	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
1,3,5-Trimethylbenzene	ND	0.50	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Vinyl chloride	ND	0.50	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
m,p-Xylene	ND	0.50	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
o-Xylene	ND	0.50	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Xylenes (total)	ND	0.50	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Trihalomethanes (total)	ND	0.30	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Methyl tert-butyl ether	ND	0.50	3.0	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U

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Sample Traps, LLC
 262 Rickenbacker Circle
 Livermore CA, 94551

Project Manager: Quality Control Manager
 Project: QC- 40ml Amber VOA- HCl
 Project Number: Silicone Batch Number 2018120302

Reported:
 03/11/19 11:18

Volatile Organic Compounds by EPA Method 524.2

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									

A9045CVBS - 02 (19B2085-02) Water **Sampled: 02/15/19 00:00** **Received: 02/19/19 08:00**

Ethyl tert-butyl ether	ND	0.40	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
Tert-amyl methyl ether	ND	0.30	0.50	ug/L	1	AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	U
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130			AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	
<i>Surrogate: Dibromofluoromethane</i>		86.8 %	70-130			AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	
<i>Surrogate: Toluene-d8</i>		108 %	70-130			AB94269	02/28/19 13:30	02/28/19 14:16	EPA 524.2	JV	



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Sample Traps, LLC
 262 Rickenbacker Circle
 Livermore CA, 94551

Project Manager: Quality Control Manager
 Project: QC- 40ml Amber VOA- HCl
 Project Number: Silicone Batch Number 2018120302

Reported:
 03/11/19 11:18

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	MDL	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit	Units							

A9045CVBS - 01 (19B2085-01) Water Sampled: 02/15/19 00:00 Received: 02/19/19 08:00

Acetone	ND	3.0	5.0	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Acetonitrile	ND	50	100	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Acrylonitrile	ND	0.40	5.0	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Allyl chloride	ND	0.40	10	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Benzene	ND	0.30	0.30	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Bromobenzene	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Bromochloromethane	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Bromodichloromethane	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Bromoform	ND	0.30	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Bromomethane	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
n-Butylbenzene	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
sec-Butylbenzene	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
tert-Butylbenzene	ND	0.30	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Carbon disulfide	ND	0.40	5.0	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Carbon tetrachloride	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Chlorobenzene	ND	0.30	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Chloroethane	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Chloroform	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Chloromethane	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Chloroprene	ND	0.40	1.0	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
2-Chlorotoluene	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
4-Chlorotoluene	ND	0.30	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Dibromochloromethane	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
1,2-Dibromo-3-chloropropane	ND	0.60	2.0	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
1,2-Dibromoethane (EDB)	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Dibromomethane	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
1,2-Dichlorobenzene	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
1,3-Dichlorobenzene	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
1,4-Dichlorobenzene	ND	0.10	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
trans-1,4-Dichloro-2-butene	ND	0.50	5.0	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Dichlorodifluoromethane	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
1,1-Dichloroethane	ND	0.10	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
1,2-Dichloroethane	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
1,1-Dichloroethene	ND	0.30	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
cis-1,2-Dichloroethene	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
trans-1,2-Dichloroethene	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U

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 262 Rickenbacker Circle
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Project Manager: Quality Control Manager
 Project: QC- 40ml Amber VOA- HCl
 Project Number: Silicone Batch Number 2018120302

Reported:
 03/11/19 11:18

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	MDL	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit	Units							

A9045CVBS - 01 (19B2085-01) Water Sampled: 02/15/19 00:00 Received: 02/19/19 08:00

1,2-Dichloropropane	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
1,3-Dichloropropane	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
2,2-Dichloropropane	ND	0.20	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
1,1-Dichloropropene	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
cis-1,3-Dichloropropene	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
trans-1,3-Dichloropropene	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Diethyl ether	ND	0.20	1.0	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Di-isopropyl ether	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Ethanol	ND	50	50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Ethyl methacrylate	ND	0.70	10	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Ethylbenzene	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Ethyl tert-butyl ether	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Hexachlorobutadiene	ND	0.50	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Hexachloroethane	ND	0.40	1.0	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
2-Hexanone	ND	0.50	5.0	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Isobutanol	ND	40	100	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Isopropylbenzene	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
p-Isopropyltoluene	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Methacrylonitrile	ND	0.40	1.0	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Methylene chloride	ND	0.50	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Methyl ethyl ketone	ND	0.70	1.0	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Methyl iodide	ND	0.40	2.0	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Methyl isobutyl ketone	ND	0.60	1.0	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Methyl methacrylate	ND	0.40	1.0	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Methyl tert-butyl ether	ND	0.50	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Naphthalene	ND	0.50	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Propionitrile	ND	20	50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
n-Propylbenzene	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Styrene	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Tert-amyl methyl ether	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Tert-butyl alcohol	ND	6.0	10	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
1,1,1,2-Tetrachloroethane	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
1,1,2,2-Tetrachloroethane	ND	0.30	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Tetrachloroethene	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Tetrahydrofuran	ND	0.40	5.0	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Toluene	ND	0.30	0.30	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U

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Sample Traps, LLC
 262 Rickenbacker Circle
 Livermore CA, 94551

Project Manager: Quality Control Manager
 Project: QC- 40ml Amber VOA- HCl
 Project Number: Silicone Batch Number 2018120302

Reported:
 03/11/19 11:18

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									

A9045CVBS - 01 (19B2085-01) Water **Sampled: 02/15/19 00:00** **Received: 02/19/19 08:00**

1,2,3-Trichlorobenzene	ND	0.50	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
1,2,4-Trichlorobenzene	ND	0.20	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
1,1,1-Trichloroethane	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
1,1,2-Trichloroethane	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Trichloroethene	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Trichlorofluoromethane	ND	0.20	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
1,2,3-Trichloropropane	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Trichlorotrifluoroethane	ND	0.50	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
1,2,4-Trimethylbenzene	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
1,3,5-Trimethylbenzene	ND	0.30	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Vinyl acetate	ND	0.80	1.0	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Vinyl chloride	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
m,p-Xylene	ND	0.50	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
o-Xylene	ND	0.40	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Xylenes (total)	ND	0.50	0.50	ug/L	1	AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	U
Surrogate: Bromofluorobenzene		109 %	70-130			AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	
Surrogate: Dibromofluoromethane		103 %	70-130			AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	
Surrogate: Toluene-d8		106 %	70-130			AB94094	02/26/19 09:00	02/26/19 15:30	EPA 8260	MM	



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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 40ml Amber VOA- HCl Project Number: Silicone Batch Number 2018120302	Reported: 03/11/19 11:18
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Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB94269 - VOAs in Water GCMS

Blank (AB94269-BLK1)

Prepared & Analyzed: 02/28/19

Acetone	ND	2.0	5.0	ug/L							U
Acrylonitrile	ND	0.40	5.0	ug/L							U
Benzene	ND	0.30	0.30	ug/L							U
Bromobenzene	ND	0.20	0.50	ug/L							U
Bromochloromethane	ND	0.40	0.50	ug/L							U
Bromodichloromethane	ND	0.20	0.50	ug/L							U
Bromoform	ND	0.30	0.50	ug/L							U
Bromomethane	ND	0.40	0.50	ug/L							U
n-Butylbenzene	ND	0.50	0.50	ug/L							U
sec-Butylbenzene	ND	0.50	0.50	ug/L							U
tert-Butylbenzene	ND	0.50	0.50	ug/L							U
Carbon disulfide	ND	0.40	0.50	ug/L							U
Carbon tetrachloride	ND	0.30	0.50	ug/L							U
Chlorobenzene	ND	0.20	0.50	ug/L							U
Chloroethane	ND	0.30	0.50	ug/L							U
Chloroform	ND	0.30	0.50	ug/L							U
Chloromethane	ND	0.40	0.50	ug/L							U
2-Chlorotoluene	ND	0.20	0.50	ug/L							U
4-Chlorotoluene	ND	0.20	0.50	ug/L							U
Dibromochloromethane	ND	0.30	0.50	ug/L							U
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L							U
1,2-Dibromoethane (EDB)	ND	0.20	0.50	ug/L							U
Dibromomethane	ND	0.20	0.50	ug/L							U
1,2-Dichlorobenzene	ND	0.20	0.50	ug/L							U
1,3-Dichlorobenzene	ND	0.20	0.50	ug/L							U
trans-1,4-Dichloro-2-butene	ND	0.90	5.0	ug/L							U
1,4-Dichlorobenzene	ND	0.20	0.50	ug/L							U
Dichlorodifluoromethane	ND	0.50	0.50	ug/L							U
1,1-Dichloroethane	ND	0.20	0.50	ug/L							U
1,2-Dichloroethane	ND	0.50	0.50	ug/L							U
1,1-Dichloroethene	ND	0.30	0.30	ug/L							U
cis-1,2-Dichloroethene	ND	0.40	0.50	ug/L							U
trans-1,2-Dichloroethene	ND	0.40	0.50	ug/L							U
1,2-Dichloropropane	ND	0.20	0.50	ug/L							U
1,3-Dichloropropane	ND	0.50	0.50	ug/L							U
2,2-Dichloropropane	ND	0.30	0.50	ug/L							U

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 40ml Amber VOA- HCl Project Number: Silicone Batch Number 2018120302	Reported: 03/11/19 11:18
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Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB94269 - VOAs in Water GCMS

Blank (AB94269-BLK1)

Prepared & Analyzed: 02/28/19

1,1-Dichloropropene	ND	0.50	0.50	ug/L							U
cis-1,3-Dichloropropene	ND	0.30	0.50	ug/L							U
trans-1,3-Dichloropropene	ND	0.30	0.50	ug/L							U
2-Hexanone	ND	0.50	5.0	ug/L							U
1,3-Dichloropropene (total)	ND	0.30	0.50	ug/L							U
Ethylbenzene	ND	0.50	0.50	ug/L							U
Hexachlorobutadiene	ND	0.40	0.50	ug/L							U
Isopropylbenzene	ND	0.50	0.50	ug/L							U
p-Isopropyltoluene	ND	0.50	0.50	ug/L							U
Methyl ethyl ketone	ND	0.60	1.0	ug/L							U
Methyl iodide	ND	0.40	2.0	ug/L							U
Methyl isobutyl ketone	ND	0.80	1.0	ug/L							U
Methylene chloride	ND	0.40	0.50	ug/L							U
Naphthalene	ND	0.50	0.50	ug/L							U
n-Propylbenzene	ND	0.50	0.50	ug/L							U
Styrene	ND	0.20	0.50	ug/L							U
1,1,1,2-Tetrachloroethane	ND	0.40	0.50	ug/L							U
1,1,2,2-Tetrachloroethane	ND	0.20	0.50	ug/L							U
Tetrachloroethene	ND	0.50	0.50	ug/L							U
Toluene	ND	0.30	0.50	ug/L							U
1,2,3-Trichlorobenzene	ND	0.40	0.50	ug/L							U
1,2,4-Trichlorobenzene	ND	0.40	0.50	ug/L							U
1,1,1-Trichloroethane	ND	0.40	0.50	ug/L							U
1,1,2-Trichloroethane	ND	0.20	0.50	ug/L							U
Trichloroethene	ND	0.50	0.50	ug/L							U
Trichlorofluoromethane	ND	0.50	0.50	ug/L							U
Trichlorotrifluoroethane	ND	0.40	0.50	ug/L							U
1,2,3-Trichloropropane	ND	0.50	0.50	ug/L							U
1,2,4-Trimethylbenzene	ND	0.50	0.50	ug/L							U
1,3,5-Trimethylbenzene	ND	0.50	0.50	ug/L							U
Vinyl chloride	ND	0.50	0.50	ug/L							U
m,p-Xylene	ND	0.50	0.50	ug/L							U
o-Xylene	ND	0.50	0.50	ug/L							U
Xylenes (total)	ND	0.50	0.50	ug/L							U
Trihalomethanes (total)	ND	0.30	0.50	ug/L							U
Methyl tert-butyl ether	ND	0.50	3.0	ug/L							U

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 40ml Amber VOA- HCl Project Number: Silicone Batch Number 2018120302	Reported: 03/11/19 11:18
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Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB94269 - VOAs in Water GCMS

Blank (AB94269-BLK1)

Prepared & Analyzed: 02/28/19

Ethyl tert-butyl ether	ND	0.40	0.50	ug/L							U
Tert-amyl methyl ether	ND	0.30	0.50	ug/L							U
Surrogate: Bromofluorobenzene	26.4			ug/L	25.0		106	70-130			
Surrogate: Dibromofluoromethane	23.2			ug/L	25.0		92.8	70-130			
Surrogate: Toluene-d8	28.2			ug/L	25.0		113	70-130			

LCS (AB94269-BS1)

Prepared & Analyzed: 02/28/19

Acetone	18.2	2.0	5.0	ug/L	20.0		91.0	70-130			
Acrylonitrile	5.53	0.40	5.0	ug/L	5.00		111	70-130			
Benzene	4.82	0.30	0.30	ug/L	5.00		96.4	70-130			
Bromobenzene	4.67	0.20	0.50	ug/L	5.00		93.4	70-130			
Bromochloromethane	4.57	0.40	0.50	ug/L	5.00		91.4	70-130			
Bromodichloromethane	5.30	0.20	0.50	ug/L	5.00		106	70-130			
Bromoform	4.60	0.30	0.50	ug/L	5.00		92.0	70-130			
Bromomethane	5.02	0.40	0.50	ug/L	5.00		100	70-130			
n-Butylbenzene	4.61	0.50	0.50	ug/L	5.00		92.2	70-130			
sec-Butylbenzene	4.71	0.50	0.50	ug/L	5.00		94.2	70-130			
tert-Butylbenzene	4.70	0.50	0.50	ug/L	5.00		94.0	70-130			
Carbon disulfide	3.98	0.40	0.50	ug/L	5.00		79.6	70-130			
Carbon tetrachloride	4.15	0.30	0.50	ug/L	5.00		83.0	70-130			
Chlorobenzene	4.83	0.20	0.50	ug/L	5.00		96.6	70-130			
Chloroethane	5.03	0.30	0.50	ug/L	5.00		101	70-130			
Chloroform	4.96	0.30	0.50	ug/L	5.00		99.2	70-130			
Chloromethane	5.79	0.40	0.50	ug/L	5.00		116	70-130			
2-Chlorotoluene	4.79	0.20	0.50	ug/L	5.00		95.8	70-130			
4-Chlorotoluene	4.69	0.20	0.50	ug/L	5.00		93.8	70-130			
Dibromochloromethane	4.75	0.30	0.50	ug/L	5.00		95.0	70-130			
1,2-Dibromo-3-chloropropane	4.17	0.50	0.50	ug/L	5.00		83.4	70-130			
1,2-Dibromoethane (EDB)	4.51	0.20	0.50	ug/L	5.00		90.2	70-130			
Dibromomethane	4.32	0.20	0.50	ug/L	5.00		86.4	70-130			
1,2-Dichlorobenzene	4.59	0.20	0.50	ug/L	5.00		91.8	70-130			
1,3-Dichlorobenzene	4.59	0.20	0.50	ug/L	5.00		91.8	70-130			
trans-1,4-Dichloro-2-butene	4.48	0.90	5.0	ug/L	5.00		89.6	70-130			J
1,4-Dichlorobenzene	4.54	0.20	0.50	ug/L	5.00		90.8	70-130			
Dichlorodifluoromethane	5.79	0.50	0.50	ug/L	5.00		116	70-130			
1,1-Dichloroethane	5.10	0.20	0.50	ug/L	5.00		102	70-130			
1,2-Dichloroethane	5.04	0.50	0.50	ug/L	5.00		101	70-130			

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 40ml Amber VOA- HCl Project Number: Silicone Batch Number 2018120302	Reported: 03/11/19 11:18
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Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB94269 - VOAs in Water GCMS

LCS (AB94269-BS1)

Prepared & Analyzed: 02/28/19

1,1-Dichloroethene	4.31	0.30	0.30	ug/L	5.00		86.2	70-130			
cis-1,2-Dichloroethene	4.85	0.40	0.50	ug/L	5.00		97.0	70-130			
trans-1,2-Dichloroethene	4.49	0.40	0.50	ug/L	5.00		89.8	70-130			
1,2-Dichloropropane	4.70	0.20	0.50	ug/L	5.00		94.0	70-130			
1,3-Dichloropropane	4.87	0.50	0.50	ug/L	5.00		97.4	70-130			
2,2-Dichloropropane	4.36	0.30	0.50	ug/L	5.00		87.2	70-130			
1,1-Dichloropropene	4.77	0.50	0.50	ug/L	5.00		95.4	70-130			
cis-1,3-Dichloropropene	3.92	0.30	0.50	ug/L	5.00		78.4	70-130			
trans-1,3-Dichloropropene	3.87	0.30	0.50	ug/L	5.00		77.4	70-130			
Ethylbenzene	4.72	0.50	0.50	ug/L	5.00		94.4	70-130			
2-Hexanone	5.40	0.50	5.0	ug/L	5.00		108	70-130			
Hexachlorobutadiene	3.88	0.40	0.50	ug/L	5.00		77.6	70-130			
Isopropylbenzene	4.85	0.50	0.50	ug/L	5.00		97.0	70-130			
p-Isopropyltoluene	4.66	0.50	0.50	ug/L	5.00		93.2	70-130			
Methyl ethyl ketone	11.0	0.60	1.0	ug/L	10.0		110	70-130			
Methyl iodide	4.48	0.40	2.0	ug/L	5.00		89.6	70-130			
Methyl isobutyl ketone	10.5	0.80	1.0	ug/L	10.0		105	70-130			
Methylene chloride	5.67	0.40	0.50	ug/L	5.00		113	70-130			
Naphthalene	4.71	0.50	0.50	ug/L	5.00		94.2	70-130			
n-Propylbenzene	4.72	0.50	0.50	ug/L	5.00		94.4	70-130			
Styrene	4.69	0.20	0.50	ug/L	5.00		93.8	70-130			
1,1,1,2-Tetrachloroethane	3.79	0.40	0.50	ug/L	5.00		75.8	70-130			
1,1,1,2,2-Tetrachloroethane	4.74	0.20	0.50	ug/L	5.00		94.8	70-130			
Tetrachloroethene	4.67	0.50	0.50	ug/L	5.00		93.4	70-130			
Toluene	4.86	0.30	0.50	ug/L	5.00		97.2	70-130			
1,2,3-Trichlorobenzene	4.65	0.40	0.50	ug/L	5.00		93.0	70-130			
1,2,4-Trichlorobenzene	4.33	0.40	0.50	ug/L	5.00		86.6	70-130			
1,1,1-Trichloroethane	4.61	0.40	0.50	ug/L	5.00		92.2	70-130			
1,1,2-Trichloroethane	4.83	0.20	0.50	ug/L	5.00		96.6	70-130			
Trichloroethene	4.70	0.50	0.50	ug/L	5.00		94.0	70-130			
Trichlorofluoromethane	5.13	0.50	0.50	ug/L	5.00		103	70-130			
Trichlorotrifluoroethane	4.95	0.40	0.50	ug/L	5.00		99.0	70-130			
1,2,3-Trichloropropane	4.96	0.50	0.50	ug/L	5.00		99.2	70-130			
1,2,4-Trimethylbenzene	4.90	0.50	0.50	ug/L	5.00		98.0	70-130			
1,3,5-Trimethylbenzene	4.81	0.50	0.50	ug/L	5.00		96.2	70-130			
Vinyl chloride	5.14	0.50	0.50	ug/L	5.00		103	70-130			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 40ml Amber VOA- HCl Project Number: Silicone Batch Number 2018120302	Reported: 03/11/19 11:18
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Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB94269 - VOAs in Water GCMS

LCS (AB94269-BS1)		Prepared & Analyzed: 02/28/19									
m,p-Xylene	9.49	0.50	0.50	ug/L	10.0	94.9	70-130				
o-Xylene	4.78	0.50	0.50	ug/L	5.00	95.6	70-130				
Xylenes (total)	14.3	0.50	0.50	ug/L	15.0	95.1	70-130				
Methyl tert-butyl ether	5.43	0.50	3.0	ug/L	5.00	109	70-130				
Ethyl tert-butyl ether	5.39	0.40	0.50	ug/L	5.00	108	70-130				
Tert-amyl methyl ether	4.06	0.30	0.50	ug/L	5.00	81.2	70-130				
Surrogate: Bromofluorobenzene	26.9			ug/L	25.0	107	70-130				
Surrogate: Dibromofluoromethane	25.0			ug/L	25.0	99.8	70-130				
Surrogate: Toluene-d8	27.4			ug/L	25.0	109	70-130				

LCS Dup (AB94269-BSD1)		Prepared & Analyzed: 02/28/19									
Acetone	18.0	2.0	5.0	ug/L	20.0	89.8	70-130	1.38	30		
Acrylonitrile	5.35	0.40	5.0	ug/L	5.00	107	70-130	3.31	30		
Benzene	5.03	0.30	0.30	ug/L	5.00	101	70-130	4.26	30		
Bromobenzene	4.80	0.20	0.50	ug/L	5.00	96.0	70-130	2.75	30		
Bromochloromethane	4.78	0.40	0.50	ug/L	5.00	95.6	70-130	4.49	30		
Bromodichloromethane	5.60	0.20	0.50	ug/L	5.00	112	70-130	5.50	30		
Bromoform	4.59	0.30	0.50	ug/L	5.00	91.8	70-130	0.218	30		
Bromomethane	5.65	0.40	0.50	ug/L	5.00	113	70-130	11.8	30		
n-Butylbenzene	4.81	0.50	0.50	ug/L	5.00	96.2	70-130	4.25	30		
sec-Butylbenzene	4.95	0.50	0.50	ug/L	5.00	99.0	70-130	4.97	30		
tert-Butylbenzene	4.90	0.50	0.50	ug/L	5.00	98.0	70-130	4.17	30		
Carbon disulfide	4.37	0.40	0.50	ug/L	5.00	87.4	70-130	9.34	30		
Carbon tetrachloride	4.56	0.30	0.50	ug/L	5.00	91.2	70-130	9.41	30		
Chlorobenzene	5.03	0.20	0.50	ug/L	5.00	101	70-130	4.06	30		
Chloroethane	5.61	0.30	0.50	ug/L	5.00	112	70-130	10.9	30		
Chloroform	5.23	0.30	0.50	ug/L	5.00	105	70-130	5.30	30		
Chloromethane	6.06	0.40	0.50	ug/L	5.00	121	70-130	4.56	30		
2-Chlorotoluene	4.98	0.20	0.50	ug/L	5.00	99.6	70-130	3.89	30		
4-Chlorotoluene	4.82	0.20	0.50	ug/L	5.00	96.4	70-130	2.73	30		
Dibromochloromethane	5.14	0.30	0.50	ug/L	5.00	103	70-130	7.89	30		
1,2-Dibromo-3-chloropropane	4.16	0.50	0.50	ug/L	5.00	83.2	70-130	0.240	25		
1,2-Dibromoethane (EDB)	4.78	0.20	0.50	ug/L	5.00	95.6	70-130	5.81	25		
Dibromomethane	4.56	0.20	0.50	ug/L	5.00	91.2	70-130	5.41	30		
1,2-Dichlorobenzene	4.81	0.20	0.50	ug/L	5.00	96.2	70-130	4.68	30		
1,3-Dichlorobenzene	4.78	0.20	0.50	ug/L	5.00	95.6	70-130	4.06	30		
trans-1,4-Dichloro-2-butene	4.73	0.90	5.0	ug/L	5.00	94.6	70-130	5.43	25		J

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 40ml Amber VOA- HCl Project Number: Silicone Batch Number 2018120302	Reported: 03/11/19 11:18
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Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB94269 - VOAs in Water GCMS

LCS Dup (AB94269-BSD1)

Prepared & Analyzed: 02/28/19

1,4-Dichlorobenzene	4.67	0.20	0.50	ug/L	5.00		93.4	70-130	2.82	30	
Dichlorodifluoromethane	6.11	0.50	0.50	ug/L	5.00		122	70-130	5.38	30	
1,1-Dichloroethane	5.30	0.20	0.50	ug/L	5.00		106	70-130	3.85	30	
1,2-Dichloroethane	4.83	0.50	0.50	ug/L	5.00		96.6	70-130	4.26	30	
1,1-Dichloroethene	4.72	0.30	0.30	ug/L	5.00		94.4	70-130	9.08	30	
cis-1,2-Dichloroethene	4.96	0.40	0.50	ug/L	5.00		99.2	70-130	2.24	30	
trans-1,2-Dichloroethene	4.91	0.40	0.50	ug/L	5.00		98.2	70-130	8.94	30	
1,2-Dichloropropane	4.98	0.20	0.50	ug/L	5.00		99.6	70-130	5.79	30	
1,3-Dichloropropane	5.02	0.50	0.50	ug/L	5.00		100	70-130	3.03	30	
2,2-Dichloropropane	4.71	0.30	0.50	ug/L	5.00		94.2	70-130	7.72	30	
1,1-Dichloropropene	5.10	0.50	0.50	ug/L	5.00		102	70-130	6.69	30	
cis-1,3-Dichloropropene	4.31	0.30	0.50	ug/L	5.00		86.2	70-130	9.48	30	
trans-1,3-Dichloropropene	4.11	0.30	0.50	ug/L	5.00		82.2	70-130	6.02	30	
2-Hexanone	5.43	0.50	5.0	ug/L	5.00		109	70-130	0.554	25	
Ethylbenzene	4.97	0.50	0.50	ug/L	5.00		99.4	70-130	5.16	30	
Hexachlorobutadiene	3.99	0.40	0.50	ug/L	5.00		79.8	70-130	2.80	30	
Isopropylbenzene	5.04	0.50	0.50	ug/L	5.00		101	70-130	3.84	30	
p-Isopropyltoluene	4.83	0.50	0.50	ug/L	5.00		96.6	70-130	3.58	30	
Methyl ethyl ketone	11.5	0.60	1.0	ug/L	10.0		115	70-130	4.80	30	
Methyl iodide	4.84	0.40	2.0	ug/L	5.00		96.8	70-130	7.73	25	
Methyl isobutyl ketone	10.6	0.80	1.0	ug/L	10.0		106	70-130	0.662	30	
Methylene chloride	5.71	0.40	0.50	ug/L	5.00		114	70-130	0.703	30	
Naphthalene	4.70	0.50	0.50	ug/L	5.00		94.0	70-130	0.213	30	
n-Propylbenzene	4.91	0.50	0.50	ug/L	5.00		98.2	70-130	3.95	30	
Styrene	4.88	0.20	0.50	ug/L	5.00		97.6	70-130	3.97	30	
1,1,1,2-Tetrachloroethane	4.00	0.40	0.50	ug/L	5.00		80.0	70-130	5.39	30	
1,1,2,2-Tetrachloroethane	4.75	0.20	0.50	ug/L	5.00		95.0	70-130	0.211	30	
Tetrachloroethene	4.84	0.50	0.50	ug/L	5.00		96.8	70-130	3.58	30	
Toluene	5.12	0.30	0.50	ug/L	5.00		102	70-130	5.21	30	
1,2,3-Trichlorobenzene	4.67	0.40	0.50	ug/L	5.00		93.4	70-130	0.429	30	
1,2,4-Trichlorobenzene	4.40	0.40	0.50	ug/L	5.00		88.0	70-130	1.60	30	
1,1,1-Trichloroethane	4.88	0.40	0.50	ug/L	5.00		97.6	70-130	5.69	30	
1,1,2-Trichloroethane	4.92	0.20	0.50	ug/L	5.00		98.4	70-130	1.85	30	
Trichloroethene	5.01	0.50	0.50	ug/L	5.00		100	70-130	6.39	30	
Trichlorofluoromethane	5.94	0.50	0.50	ug/L	5.00		119	70-130	14.6	30	
Trichlorotrifluoroethane	5.34	0.40	0.50	ug/L	5.00		107	70-130	7.58	30	

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Sample Traps, LLC
 262 Rickenbacker Circle
 Livermore CA, 94551

Project Manager: Quality Control Manager
 Project: QC- 40ml Amber VOA- HCl
 Project Number: Silicone Batch Number 2018120302

Reported:
 03/11/19 11:18

Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB94269 - VOAs in Water GCMS

LCS Dup (AB94269-BSD1)

Prepared & Analyzed: 02/28/19

1,2,3-Trichloropropane	4.89	0.50	0.50	ug/L	5.00		97.8	70-130	1.42	25	
1,2,4-Trimethylbenzene	5.12	0.50	0.50	ug/L	5.00		102	70-130	4.39	30	
1,3,5-Trimethylbenzene	5.06	0.50	0.50	ug/L	5.00		101	70-130	5.07	30	
Vinyl chloride	5.73	0.50	0.50	ug/L	5.00		115	70-130	10.9	30	
m,p-Xylene	9.96	0.50	0.50	ug/L	10.0		99.6	70-130	4.83	30	
o-Xylene	4.95	0.50	0.50	ug/L	5.00		99.0	70-130	3.49	30	
Xylenes (total)	14.9	0.50	0.50	ug/L	15.0		99.4	70-130	4.39	30	
Methyl tert-butyl ether	5.30	0.50	3.0	ug/L	5.00		106	70-130	2.42	30	
Ethyl tert-butyl ether	5.36	0.40	0.50	ug/L	5.00		107	70-130	0.558	30	
Tert-amyl methyl ether	4.15	0.30	0.50	ug/L	5.00		83.0	70-130	2.19	30	
Surrogate: Bromofluorobenzene	26.9			ug/L	25.0		107	70-130			
Surrogate: Dibromofluoromethane	25.0			ug/L	25.0		100	70-130			
Surrogate: Toluene-d8	27.6			ug/L	25.0		110	70-130			

Matrix Spike (AB94269-MS1)

Source: 19B2841-02

Prepared & Analyzed: 02/28/19

Acetone	18.0	2.0	5.0	ug/L	20.0	ND	90.1	70-130			
Acrylonitrile	5.44	0.40	5.0	ug/L	5.00	ND	109	70-130			
Benzene	5.43	0.30	0.30	ug/L	5.00	ND	109	70-130			
Bromobenzene	4.95	0.20	0.50	ug/L	5.00	ND	99.0	70-130			
Bromochloromethane	4.89	0.40	0.50	ug/L	5.00	ND	97.8	70-130			
Bromodichloromethane	5.79	0.20	0.50	ug/L	5.00	ND	116	70-130			
Bromoform	4.72	0.30	0.50	ug/L	5.00	ND	94.4	70-130			
Bromomethane	5.90	0.40	0.50	ug/L	5.00	ND	118	70-130			
n-Butylbenzene	5.31	0.50	0.50	ug/L	5.00	ND	106	70-130			
sec-Butylbenzene	5.45	0.50	0.50	ug/L	5.00	ND	109	70-130			
tert-Butylbenzene	5.32	0.50	0.50	ug/L	5.00	ND	106	70-130			
Carbon disulfide	4.86	0.40	0.50	ug/L	5.00	ND	97.2	70-130			
Carbon tetrachloride	5.24	0.30	0.50	ug/L	5.00	ND	105	70-130			
Chlorobenzene	5.30	0.20	0.50	ug/L	5.00	ND	106	70-130			
Chloroethane	6.03	0.30	0.50	ug/L	5.00	ND	121	70-130			
Chloroform	5.57	0.30	0.50	ug/L	5.00	ND	111	70-130			
Chloromethane	6.42	0.40	0.50	ug/L	5.00	ND	128	70-130			
2-Chlorotoluene	5.38	0.20	0.50	ug/L	5.00	ND	108	70-130			
4-Chlorotoluene	5.21	0.20	0.50	ug/L	5.00	ND	104	70-130			
Dibromochloromethane	4.49	0.30	0.50	ug/L	5.00	ND	89.8	70-130			
1,2-Dibromo-3-chloropropane	3.42	0.50	0.50	ug/L	5.00	ND	68.4	70-130			QM-05
1,2-Dibromoethane (EDB)	4.61	0.20	0.50	ug/L	5.00	ND	92.2	70-130			

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 40ml Amber VOA- HCl Project Number: Silicone Batch Number 2018120302	Reported: 03/11/19 11:18
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Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB94269 - VOAs in Water GCMS

Matrix Spike (AB94269-MS1)	Source: 19B2841-02			Prepared & Analyzed: 02/28/19							
Dibromomethane	4.53	0.20	0.50	ug/L	5.00	ND	90.6	70-130			
1,2-Dichlorobenzene	4.88	0.20	0.50	ug/L	5.00	ND	97.6	70-130			
1,3-Dichlorobenzene	5.06	0.20	0.50	ug/L	5.00	ND	101	70-130			
1,4-Dichlorobenzene	4.92	0.20	0.50	ug/L	5.00	ND	98.4	70-130			
trans-1,4-Dichloro-2-butene	5.43	0.90	5.0	ug/L	5.00	ND	109	70-130			
Dichlorodifluoromethane	6.41	0.50	0.50	ug/L	5.00	ND	128	70-130			
1,1-Dichloroethane	5.85	0.20	0.50	ug/L	5.00	ND	117	70-130			
1,2-Dichloroethane	5.00	0.50	0.50	ug/L	5.00	ND	100	70-130			
1,1-Dichloroethene	5.22	0.30	0.30	ug/L	5.00	ND	104	70-130			
cis-1,2-Dichloroethene	5.32	0.40	0.50	ug/L	5.00	ND	106	70-130			
trans-1,2-Dichloroethene	5.31	0.40	0.50	ug/L	5.00	ND	106	70-130			
1,2-Dichloropropane	5.09	0.20	0.50	ug/L	5.00	ND	102	70-130			
1,3-Dichloropropane	5.09	0.50	0.50	ug/L	5.00	ND	102	70-130			
2,2-Dichloropropane	5.53	0.30	0.50	ug/L	5.00	ND	111	70-130			
1,1-Dichloropropene	5.72	0.50	0.50	ug/L	5.00	ND	114	70-130			
cis-1,3-Dichloropropene	4.23	0.30	0.50	ug/L	5.00	ND	84.6	70-130			
trans-1,3-Dichloropropene	4.08	0.30	0.50	ug/L	5.00	ND	81.6	70-130			
2-Hexanone	5.27	0.50	5.0	ug/L	5.00	ND	105	70-130			
Ethylbenzene	5.36	0.50	0.50	ug/L	5.00	ND	107	70-130			
Hexachlorobutadiene	4.43	0.40	0.50	ug/L	5.00	ND	88.6	70-130			
Isopropylbenzene	5.57	0.50	0.50	ug/L	5.00	ND	111	70-130			
p-Isopropyltoluene	5.34	0.50	0.50	ug/L	5.00	ND	107	70-130			
Methyl ethyl ketone	11.2	0.60	1.0	ug/L	10.0	ND	112	70-130			
Methyl iodide	5.35	0.40	2.0	ug/L	5.00	ND	107	70-130			
Methyl isobutyl ketone	10.5	0.80	1.0	ug/L	10.0	ND	105	70-130			
Methylene chloride	5.01	0.40	0.50	ug/L	5.00	ND	100	70-130			
Naphthalene	4.83	0.50	0.50	ug/L	5.00	ND	96.6	70-130			
n-Propylbenzene	5.44	0.50	0.50	ug/L	5.00	ND	109	70-130			
Styrene	1.61	0.20	0.50	ug/L	5.00	ND	32.2	70-130			QM-05
1,1,1,2-Tetrachloroethane	4.12	0.40	0.50	ug/L	5.00	ND	82.4	70-130			
1,1,2,2-Tetrachloroethane	4.86	0.20	0.50	ug/L	5.00	ND	97.2	70-130			
Tetrachloroethene	5.43	0.50	0.50	ug/L	5.00	ND	109	70-130			
Toluene	5.43	0.30	0.50	ug/L	5.00	ND	109	70-130			
1,2,3-Trichlorobenzene	4.89	0.40	0.50	ug/L	5.00	ND	97.8	70-130			
1,2,4-Trichlorobenzene	4.64	0.40	0.50	ug/L	5.00	ND	92.8	70-130			
1,1,1-Trichloroethane	5.53	0.40	0.50	ug/L	5.00	ND	111	70-130			

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Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB94269 - VOAs in Water GCMS

Matrix Spike (AB94269-MS1)		Source: 19B2841-02			Prepared & Analyzed: 02/28/19						
1,1,2-Trichloroethane	4.86	0.20	0.50	ug/L	5.00	ND	97.2	70-130			
Trichloroethene	5.44	0.50	0.50	ug/L	5.00	ND	109	70-130			
Trichlorofluoromethane	6.31	0.50	0.50	ug/L	5.00	ND	126	70-130			
Trichlorotrifluoroethane	5.82	0.40	0.50	ug/L	5.00	ND	116	70-130			
1,2,3-Trichloropropane	5.10	0.50	0.50	ug/L	5.00	ND	102	70-130			
1,2,4-Trimethylbenzene	5.49	0.50	0.50	ug/L	5.00	ND	110	70-130			
1,3,5-Trimethylbenzene	5.42	0.50	0.50	ug/L	5.00	ND	108	70-130			
Vinyl chloride	6.43	0.50	0.50	ug/L	5.00	ND	129	70-130			
m,p-Xylene	10.7	0.50	0.50	ug/L	10.0	ND	107	70-130			
o-Xylene	5.20	0.50	0.50	ug/L	5.00	ND	104	70-130			
Xylenes (total)	15.9	0.50	0.50	ug/L	15.0	ND	106	70-130			
Methyl tert-butyl ether	4.55	0.50	3.0	ug/L	5.00	ND	91.0	70-130			
Ethyl tert-butyl ether	5.44	0.40	0.50	ug/L	5.00	ND	109	70-130			
Tert-amyl methyl ether	4.06	0.30	0.50	ug/L	5.00	ND	81.2	70-130			
Surrogate: Bromofluorobenzene	25.7			ug/L	25.0		103	70-130			
Surrogate: Dibromofluoromethane	23.8			ug/L	25.0		95.0	70-130			
Surrogate: Toluene-d8	26.1			ug/L	25.0		105	70-130			

Matrix Spike (AB94269-MS2)		Source: 19B2841-03			Prepared: 02/28/19 Analyzed: 03/01/19						
Acetone	21.6	2.0	5.0	ug/L	20.0	10.2	57.2	70-130			QM-05
Acrylonitrile	5.84	0.40	5.0	ug/L	5.00	ND	117	70-130			
Benzene	5.15	0.30	0.30	ug/L	5.00	ND	103	70-130			
Bromobenzene	4.68	0.20	0.50	ug/L	5.00	ND	93.6	70-130			
Bromochloromethane	4.47	0.40	0.50	ug/L	5.00	ND	89.4	70-130			
Bromodichloromethane	5.16	0.20	0.50	ug/L	5.00	ND	103	70-130			
Bromoform	5.26	0.30	0.50	ug/L	5.00	ND	105	70-130			
Bromomethane	5.53	0.40	0.50	ug/L	5.00	ND	111	70-130			
n-Butylbenzene	4.96	0.50	0.50	ug/L	5.00	ND	99.2	70-130			
sec-Butylbenzene	5.13	0.50	0.50	ug/L	5.00	ND	103	70-130			
tert-Butylbenzene	5.00	0.50	0.50	ug/L	5.00	ND	100	70-130			
Carbon disulfide	4.63	0.40	0.50	ug/L	5.00	ND	92.6	70-130			
Carbon tetrachloride	4.44	0.30	0.50	ug/L	5.00	ND	88.8	70-130			
Chlorobenzene	5.13	0.20	0.50	ug/L	5.00	ND	103	70-130			
Chloroethane	6.15	0.30	0.50	ug/L	5.00	ND	123	70-130			
Chloroform	5.00	0.30	0.50	ug/L	5.00	ND	100	70-130			
Chloromethane	5.31	0.40	0.50	ug/L	5.00	ND	106	70-130			
2-Chlorotoluene	4.96	0.20	0.50	ug/L	5.00	ND	99.2	70-130			

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 40ml Amber VOA- HCl Project Number: Silicone Batch Number 2018120302	Reported: 03/11/19 11:18
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Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB94269 - VOAs in Water GCMS

Matrix Spike (AB94269-MS2)	Source: 19B2841-03			Prepared: 02/28/19 Analyzed: 03/01/19							
4-Chlorotoluene	4.99	0.20	0.50	ug/L	5.00	ND	99.8	70-130			
Dibromochloromethane	4.53	0.30	0.50	ug/L	5.00	ND	90.6	70-130			
1,2-Dibromo-3-chloropropane	3.14	0.50	0.50	ug/L	5.00	ND	62.8	70-130			QM-05
1,2-Dibromoethane (EDB)	4.33	0.20	0.50	ug/L	5.00	ND	86.6	70-130			
Dibromomethane	4.16	0.20	0.50	ug/L	5.00	ND	83.2	70-130			
1,2-Dichlorobenzene	4.61	0.20	0.50	ug/L	5.00	ND	92.2	70-130			
1,3-Dichlorobenzene	4.71	0.20	0.50	ug/L	5.00	ND	94.2	70-130			
1,4-Dichlorobenzene	4.64	0.20	0.50	ug/L	5.00	ND	92.8	70-130			
trans-1,4-Dichloro-2-butene	3.89	0.90	5.0	ug/L	5.00	ND	77.8	70-130			J
Dichlorodifluoromethane	7.24	0.50	0.50	ug/L	5.00	ND	145	70-130			QM-05
1,1-Dichloroethane	5.49	0.20	0.50	ug/L	5.00	ND	110	70-130			
1,2-Dichloroethane	4.78	0.50	0.50	ug/L	5.00	ND	95.6	70-130			
1,1-Dichloroethene	4.88	0.30	0.30	ug/L	5.00	ND	97.6	70-130			
cis-1,2-Dichloroethene	4.94	0.40	0.50	ug/L	5.00	ND	98.8	70-130			
trans-1,2-Dichloroethene	4.93	0.40	0.50	ug/L	5.00	ND	98.6	70-130			
1,2-Dichloropropane	4.97	0.20	0.50	ug/L	5.00	ND	99.4	70-130			
1,3-Dichloropropane	4.98	0.50	0.50	ug/L	5.00	ND	99.6	70-130			
2,2-Dichloropropane	4.22	0.30	0.50	ug/L	5.00	ND	84.4	70-130			
1,1-Dichloropropene	5.22	0.50	0.50	ug/L	5.00	ND	104	70-130			
cis-1,3-Dichloropropene	3.76	0.30	0.50	ug/L	5.00	ND	75.2	70-130			
trans-1,3-Dichloropropene	3.74	0.30	0.50	ug/L	5.00	ND	74.8	70-130			
2-Hexanone	5.32	0.50	5.0	ug/L	5.00	ND	106	70-130			
Ethylbenzene	5.13	0.50	0.50	ug/L	5.00	ND	103	70-130			
Hexachlorobutadiene	3.88	0.40	0.50	ug/L	5.00	ND	77.6	70-130			
Isopropylbenzene	5.27	0.50	0.50	ug/L	5.00	ND	105	70-130			
p-Isopropyltoluene	4.98	0.50	0.50	ug/L	5.00	ND	99.6	70-130			
Methyl ethyl ketone	11.4	0.60	1.0	ug/L	10.0	ND	114	70-130			
Methyl iodide	4.74	0.40	2.0	ug/L	5.00	ND	94.8	70-130			
Methyl isobutyl ketone	10.5	0.80	1.0	ug/L	10.0	ND	105	70-130			
Methylene chloride	5.15	0.40	0.50	ug/L	5.00	ND	103	70-130			
Naphthalene	4.35	0.50	0.50	ug/L	5.00	ND	87.0	70-130			
n-Propylbenzene	5.07	0.50	0.50	ug/L	5.00	ND	101	70-130			
Styrene	4.71	0.20	0.50	ug/L	5.00	ND	94.2	70-130			
1,1,1,2-Tetrachloroethane	3.71	0.40	0.50	ug/L	5.00	ND	74.2	70-130			
1,1,2,2-Tetrachloroethane	4.47	0.20	0.50	ug/L	5.00	ND	89.4	70-130			
Tetrachloroethene	5.10	0.50	0.50	ug/L	5.00	ND	102	70-130			

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Sample Traps, LLC
 262 Rickenbacker Circle
 Livermore CA, 94551

Project Manager: Quality Control Manager
 Project: QC- 40ml Amber VOA- HCl
 Project Number: Silicone Batch Number 2018120302

Reported:
 03/11/19 11:18

Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB94269 - VOAs in Water GCMS

Matrix Spike (AB94269-MS2)

Source: 19B2841-03

Prepared: 02/28/19 Analyzed: 03/01/19

Toluene	5.24	0.30	0.50	ug/L	5.00	ND	105	70-130			
1,2,3-Trichlorobenzene	4.49	0.40	0.50	ug/L	5.00	ND	89.8	70-130			
1,2,4-Trichlorobenzene	4.14	0.40	0.50	ug/L	5.00	ND	82.8	70-130			
1,1,1-Trichloroethane	4.64	0.40	0.50	ug/L	5.00	ND	92.8	70-130			
1,1,2-Trichloroethane	4.73	0.20	0.50	ug/L	5.00	ND	94.6	70-130			
Trichloroethene	5.04	0.50	0.50	ug/L	5.00	ND	101	70-130			
Trichlorofluoromethane	6.56	0.50	0.50	ug/L	5.00	ND	131	70-130			QM-05
Trichlorotrifluoroethane	5.71	0.40	0.50	ug/L	5.00	ND	114	70-130			
1,2,3-Trichloropropane	4.73	0.50	0.50	ug/L	5.00	ND	94.6	70-130			
1,2,4-Trimethylbenzene	5.13	0.50	0.50	ug/L	5.00	ND	103	70-130			
1,3,5-Trimethylbenzene	5.04	0.50	0.50	ug/L	5.00	ND	101	70-130			
Vinyl chloride	6.43	0.50	0.50	ug/L	5.00	ND	129	70-130			
m,p-Xylene	10.2	0.50	0.50	ug/L	10.0	ND	102	70-130			
o-Xylene	4.98	0.50	0.50	ug/L	5.00	ND	99.6	70-130			
Xylenes (total)	15.1	0.50	0.50	ug/L	15.0	ND	101	70-130			
Methyl tert-butyl ether	4.21	0.50	3.0	ug/L	5.00	ND	84.2	70-130			
Ethyl tert-butyl ether	5.37	0.40	0.50	ug/L	5.00	ND	107	70-130			
Tert-amyl methyl ether	3.89	0.30	0.50	ug/L	5.00	ND	77.8	70-130			
Surrogate: Bromofluorobenzene	26.9			ug/L	25.0		107	70-130			
Surrogate: Dibromofluoromethane	23.7			ug/L	25.0		94.7	70-130			
Surrogate: Toluene-d8	26.9			ug/L	25.0		107	70-130			



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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 40ml Amber VOA- HCl Project Number: Silicone Batch Number 2018120302	Reported: 03/11/19 11:18
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB94094 - VOAs in Water GCMS

Blank (AB94094-BLK1)

Prepared: 02/25/19 Analyzed: 02/26/19

Acetone	ND	3.0	5.0	ug/L							U
Acetonitrile	ND	50	100	ug/L							U
Allyl chloride	ND	0.40	10	ug/L							U
Acrylonitrile	ND	0.40	5.0	ug/L							U
Benzene	ND	0.30	0.30	ug/L							U
Bromobenzene	ND	0.40	0.50	ug/L							U
Bromochloromethane	ND	0.40	0.50	ug/L							U
Bromodichloromethane	ND	0.40	0.50	ug/L							U
Bromoform	ND	0.30	0.50	ug/L							U
Bromomethane	ND	0.40	0.50	ug/L							U
n-Butylbenzene	ND	0.40	0.50	ug/L							U
sec-Butylbenzene	ND	0.40	0.50	ug/L							U
tert-Butylbenzene	ND	0.30	0.50	ug/L							U
Carbon disulfide	ND	0.40	5.0	ug/L							U
Carbon tetrachloride	ND	0.40	0.50	ug/L							U
Chlorobenzene	ND	0.30	0.50	ug/L							U
Chloroethane	ND	0.40	0.50	ug/L							U
Chloroform	ND	0.40	0.50	ug/L							U
Chloromethane	ND	0.40	0.50	ug/L							U
Chloroprene	ND	0.40	1.0	ug/L							U
2-Chlorotoluene	ND	0.40	0.50	ug/L							U
4-Chlorotoluene	ND	0.30	0.50	ug/L							U
Dibromochloromethane	ND	0.40	0.50	ug/L							U
1,2-Dibromo-3-chloropropane	ND	0.60	2.0	ug/L							U
1,2-Dibromoethane (EDB)	ND	0.40	0.50	ug/L							U
Dibromomethane	ND	0.40	0.50	ug/L							U
1,2-Dichlorobenzene	ND	0.40	0.50	ug/L							U
1,3-Dichlorobenzene	ND	0.40	0.50	ug/L							U
1,4-Dichlorobenzene	ND	0.10	0.50	ug/L							U
trans-1,4-Dichloro-2-butene	ND	0.50	5.0	ug/L							U
Dichlorodifluoromethane	ND	0.40	0.50	ug/L							U
1,1-Dichloroethane	ND	0.10	0.50	ug/L							U
1,2-Dichloroethane	ND	0.40	0.50	ug/L							U
1,1-Dichloroethene	ND	0.30	0.50	ug/L							U
cis-1,2-Dichloroethene	ND	0.40	0.50	ug/L							U
trans-1,2-Dichloroethene	ND	0.40	0.50	ug/L							U

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Sample Traps, LLC
 262 Rickenbacker Circle
 Livermore CA, 94551

Project Manager: Quality Control Manager
 Project: QC- 40ml Amber VOA- HCl
 Project Number: Silicone Batch Number 2018120302

Reported:
 03/11/19 11:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB94094 - VOAs in Water GCMS

Blank (AB94094-BLK1)

Prepared: 02/25/19 Analyzed: 02/26/19

1,2-Dichloropropane	ND	0.40	0.50	ug/L							U
1,3-Dichloropropane	ND	0.40	0.50	ug/L							U
2,2-Dichloropropane	ND	0.20	0.50	ug/L							U
1,1-Dichloropropene	ND	0.40	0.50	ug/L							U
cis-1,3-Dichloropropene	ND	0.40	0.50	ug/L							U
trans-1,3-Dichloropropene	ND	0.40	0.50	ug/L							U
Diethyl ether	ND	0.20	1.0	ug/L							U
Di-isopropyl ether	ND	0.40	0.50	ug/L							U
Ethanol	ND	50	50	ug/L							U
Ethyl methacrylate	ND	0.70	10	ug/L							U
Ethylbenzene	ND	0.40	0.50	ug/L							U
Hexachloroethane	ND	0.40	1.0	ug/L							U
Hexachlorobutadiene	ND	0.50	0.50	ug/L							U
Ethyl tert-butyl ether	ND	0.40	0.50	ug/L							U
2-Hexanone	ND	0.50	5.0	ug/L							U
Isopropylbenzene	ND	0.40	0.50	ug/L							U
Isobutanol	ND	40	100	ug/L							U
p-Isopropyltoluene	ND	0.40	0.50	ug/L							U
Methylene chloride	ND	0.50	0.50	ug/L							U
Methacrylonitrile	ND	0.40	1.0	ug/L							U
Methyl ethyl ketone	ND	0.70	1.0	ug/L							U
Methyl iodide	ND	0.40	2.0	ug/L							U
Methyl methacrylate	ND	0.40	1.0	ug/L							U
Methyl isobutyl ketone	ND	0.60	1.0	ug/L							U
Naphthalene	ND	0.50	0.50	ug/L							U
Propionitrile	ND	20	50	ug/L							U
Methyl tert-butyl ether	ND	0.50	0.50	ug/L							U
n-Propylbenzene	ND	0.40	0.50	ug/L							U
Styrene	ND	0.40	0.50	ug/L							U
Tert-amyl methyl ether	ND	0.40	0.50	ug/L							U
Tert-butyl alcohol	ND	6.0	10	ug/L							U
1,1,1,2-Tetrachloroethane	ND	0.40	0.50	ug/L							U
1,1,2,2-Tetrachloroethane	ND	0.30	0.50	ug/L							U
Tetrachloroethene	ND	0.40	0.50	ug/L							U
Tetrahydrofuran	ND	0.40	5.0	ug/L							U
Toluene	ND	0.30	0.30	ug/L							U

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 40ml Amber VOA- HCl Project Number: Silicone Batch Number 2018120302	Reported: 03/11/19 11:18
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB94094 - VOAs in Water GCMS

Blank (AB94094-BLK1)

Prepared: 02/25/19 Analyzed: 02/26/19

1,2,3-Trichlorobenzene	ND	0.50	0.50	ug/L							U
1,2,4-Trichlorobenzene	ND	0.20	0.50	ug/L							U
1,1,1-Trichloroethane	ND	0.40	0.50	ug/L							U
1,1,2-Trichloroethane	ND	0.40	0.50	ug/L							U
Trichloroethene	ND	0.40	0.50	ug/L							U
Trichlorofluoromethane	ND	0.20	0.50	ug/L							U
1,2,3-Trichloropropane	ND	0.40	0.50	ug/L							U
Trichlorotrifluoroethane	ND	0.50	0.50	ug/L							U
1,2,4-Trimethylbenzene	ND	0.40	0.50	ug/L							U
1,3,5-Trimethylbenzene	ND	0.30	0.50	ug/L							U
Vinyl acetate	ND	0.80	1.0	ug/L							U
Vinyl chloride	ND	0.40	0.50	ug/L							U
m,p-Xylene	ND	0.50	0.50	ug/L							U
o-Xylene	ND	0.40	0.50	ug/L							U
Xylenes (total)	ND	0.50	0.50	ug/L							U
Surrogate: Bromofluorobenzene	24.2			ug/L	25.0		96.9	70-130			
Surrogate: Dibromofluoromethane	24.0			ug/L	25.0		96.2	70-130			
Surrogate: Toluene-d8	24.0			ug/L	25.0		95.8	70-130			

LCS (AB94094-BS1)

Prepared: 02/25/19 Analyzed: 02/26/19

Acetone	88.0	3.0	5.0	ug/L	80.0		110	48-124			
Acetonitrile	2000	50	100	ug/L	2000		100	70-130			
Acrylonitrile	24.3	0.40	5.0	ug/L	20.0		122	70-130			
Allyl chloride	21.0	0.40	10	ug/L	20.0		105	70-130			
Benzene	19.2	0.30	0.30	ug/L	20.0		96.2	82-122			
Bromobenzene	21.2	0.40	0.50	ug/L	20.0		106	83-122			
Bromochloromethane	21.7	0.40	0.50	ug/L	20.0		108	83-124			
Bromodichloromethane	19.6	0.40	0.50	ug/L	20.0		97.9	86-135			
Bromoform	20.4	0.30	0.50	ug/L	20.0		102	76-144			
Bromomethane	17.7	0.40	0.50	ug/L	20.0		88.4	69-145			
n-Butylbenzene	19.2	0.40	0.50	ug/L	20.0		96.0	79-132			
sec-Butylbenzene	23.4	0.40	0.50	ug/L	20.0		117	86-132			
tert-Butylbenzene	22.0	0.30	0.50	ug/L	20.0		110	82-126			
Carbon disulfide	20.5	0.40	5.0	ug/L	20.0		102	70-130			
Carbon tetrachloride	18.9	0.40	0.50	ug/L	20.0		94.7	77-134			
Chlorobenzene	20.6	0.30	0.50	ug/L	20.0		103	84-119			
Chloroethane	17.3	0.40	0.50	ug/L	20.0		86.7	68-133			

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 40ml Amber VOA- HCl Project Number: Silicone Batch Number 2018120302	Reported: 03/11/19 11:18
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB94094 - VOAs in Water GCMS

LCS (AB94094-BS1)

Prepared: 02/25/19 Analyzed: 02/26/19

Chloroform	20.0	0.40	0.50	ug/L	20.0		99.8	81-122			
Chloromethane	21.2	0.40	0.50	ug/L	20.0		106	63-129			
Chloroprene	21.2	0.40	1.0	ug/L	20.0		106	70-130			
2-Chlorotoluene	22.1	0.40	0.50	ug/L	20.0		110	79-132			
4-Chlorotoluene	22.1	0.30	0.50	ug/L	20.0		110	80-122			
Dibromochloromethane	20.0	0.40	0.50	ug/L	20.0		100	83-135			
1,2-Dibromo-3-chloropropane	18.5	0.60	2.0	ug/L	20.0		92.6	73-128			
1,2-Dibromoethane (EDB)	20.8	0.40	0.50	ug/L	20.0		104	80-120			
Dibromomethane	19.7	0.40	0.50	ug/L	20.0		98.6	82-124			
1,2-Dichlorobenzene	19.9	0.40	0.50	ug/L	20.0		99.6	84-121			
1,3-Dichlorobenzene	20.7	0.40	0.50	ug/L	20.0		104	80-120			
1,4-Dichlorobenzene	19.1	0.10	0.50	ug/L	20.0		95.4	84-120			
trans-1,4-Dichloro-2-butene	19.8	0.50	5.0	ug/L	20.0		98.8	70-130			
Dichlorodifluoromethane	22.3	0.40	0.50	ug/L	20.0		111	52-142			
1,1-Dichloroethane	20.6	0.10	0.50	ug/L	20.0		103	81-126			
1,2-Dichloroethane	19.1	0.40	0.50	ug/L	20.0		95.3	77-117			
1,1-Dichloroethene	18.5	0.30	0.50	ug/L	20.0		92.5	71-151			
cis-1,2-Dichloroethene	19.6	0.40	0.50	ug/L	20.0		98.2	84-131			
trans-1,2-Dichloroethene	20.1	0.40	0.50	ug/L	20.0		100	79-128			
1,2-Dichloropropane	20.5	0.40	0.50	ug/L	20.0		103	82-125			
1,3-Dichloropropane	21.0	0.40	0.50	ug/L	20.0		105	83-120			
2,2-Dichloropropane	14.6	0.20	0.50	ug/L	20.0		73.1	70-130			
1,1-Dichloropropene	21.3	0.40	0.50	ug/L	20.0		107	85-130			
cis-1,3-Dichloropropene	16.6	0.40	0.50	ug/L	20.0		83.1	83-128			
trans-1,3-Dichloropropene	16.9	0.40	0.50	ug/L	20.0		84.6	67-129			
Diethyl ether	24.2	0.20	1.0	ug/L	20.0		121	70-130			
Di-isopropyl ether	21.4	0.40	0.50	ug/L	20.0		107	83-132			
Ethylbenzene	21.8	0.40	0.50	ug/L	20.0		109	84-124			
Ethyl methacrylate	19.4	0.70	10	ug/L	20.0		97.0	70-130			
Ethanol	1120	50	50	ug/L	980		115	50-150			
Hexachloroethane	17.3	0.40	1.0	ug/L	20.0		86.6	70-130			
Ethyl tert-butyl ether	21.3	0.40	0.50	ug/L	20.0		106	74-127			
Hexachlorobutadiene	20.4	0.50	0.50	ug/L	20.0		102	75-135			
2-Hexanone	21.9	0.50	5.0	ug/L	20.0		110	70-130			
Isobutanol	2050	40	100	ug/L	2000		103	70-130			
Isopropylbenzene	22.7	0.40	0.50	ug/L	20.0		113	70-130			

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 40ml Amber VOA- HCl Project Number: Silicone Batch Number 2018120302	Reported: 03/11/19 11:18
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB94094 - VOAs in Water GCMS

LCS (AB94094-BS1)

Prepared: 02/25/19 Analyzed: 02/26/19

p-Isopropyltoluene	22.8	0.40	0.50	ug/L	20.0		114	78-124			
Methacrylonitrile	24.2	0.40	1.0	ug/L	20.0		121	70-130			
Methylene chloride	20.5	0.50	0.50	ug/L	20.0		103	72-132			
Methyl ethyl ketone	41.6	0.70	1.0	ug/L	40.0		104	58-157			
Methyl iodide	20.2	0.40	2.0	ug/L	20.0		101	56-167			
Methyl isobutyl ketone	43.7	0.60	1.0	ug/L	40.0		109	70-130			
Methyl methacrylate	19.0	0.40	1.0	ug/L	20.0		94.8	70-130			
Methyl tert-butyl ether	18.2	0.50	0.50	ug/L	20.0		90.9	84-119			
Naphthalene	21.1	0.50	0.50	ug/L	20.0		105	84-134			
Propionitrile	917	20	50	ug/L	1000		91.7	70-130			
n-Propylbenzene	21.7	0.40	0.50	ug/L	20.0		109	75-127			
Styrene	22.8	0.40	0.50	ug/L	20.0		114	80-125			
Tert-amyl methyl ether	18.2	0.40	0.50	ug/L	20.0		91.2	74-120			
Tert-butyl alcohol	359	6.0	10	ug/L	400		89.7	66-147			
1,1,1,2-Tetrachloroethane	20.3	0.40	0.50	ug/L	20.0		101	80-132			
1,1,2,2-Tetrachloroethane	21.3	0.30	0.50	ug/L	20.0		106	84-115			
Tetrachloroethene	20.5	0.40	0.50	ug/L	20.0		102	56-156			
Tetrahydrofuran	23.7	0.40	5.0	ug/L	20.0		119	70-130			
Toluene	20.7	0.30	0.30	ug/L	20.0		103	76-137			
1,2,4-Trichlorobenzene	22.1	0.20	0.50	ug/L	20.0		111	84-126			
1,2,3-Trichlorobenzene	20.4	0.50	0.50	ug/L	20.0		102	85-133			
1,1,1-Trichloroethane	19.8	0.40	0.50	ug/L	20.0		99.2	70-130			
1,1,2-Trichloroethane	20.8	0.40	0.50	ug/L	20.0		104	83-122			
Trichloroethene	20.6	0.40	0.50	ug/L	20.0		103	84-123			
Trichlorofluoromethane	20.2	0.20	0.50	ug/L	20.0		101	74-130			
1,2,3-Trichloropropane	21.4	0.40	0.50	ug/L	20.0		107	78-122			
Trichlorotrifluoroethane	20.3	0.50	0.50	ug/L	20.0		101	82-125			
1,2,4-Trimethylbenzene	22.6	0.40	0.50	ug/L	20.0		113	85-127			
1,3,5-Trimethylbenzene	21.9	0.30	0.50	ug/L	20.0		110	80-125			
Vinyl acetate	40.8	0.80	1.0	ug/L	40.0		102	60-140			
Vinyl chloride	16.8	0.40	0.50	ug/L	20.0		84.2	70-130			
m,p-Xylene	43.5	0.50	0.50	ug/L	40.0		109	81-124			
o-Xylene	22.4	0.40	0.50	ug/L	20.0		112	80-126			
Xylenes (total)	65.9	0.50	0.50	ug/L	60.0		110	81-126			
Surrogate: Bromofluorobenzene	28.1			ug/L	25.0		112	70-130			
Surrogate: Dibromofluoromethane	25.5			ug/L	25.0		102	70-130			

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 40ml Amber VOA- HCl Project Number: Silicone Batch Number 2018120302	Reported: 03/11/19 11:18
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB94094 - VOAs in Water GCMS

LCS (AB94094-BS1)

Prepared: 02/25/19 Analyzed: 02/26/19

Surrogate: Toluene-d8	25.8			ug/L	25.0		103	70-130			
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LCS Dup (AB94094-BS1)

Prepared: 02/25/19 Analyzed: 02/26/19

Acetone	88.6	3.0	5.0	ug/L	80.0		111	48-124	0.612	25	
Acetonitrile	2240	50	100	ug/L	2000		112	70-130	11.2	25	
Acrylonitrile	20.6	0.40	5.0	ug/L	20.0		103	70-130	16.4	25	
Allyl chloride	20.2	0.40	10	ug/L	20.0		101	70-130	3.93	25	
Benzene	19.9	0.30	0.30	ug/L	20.0		99.5	82-122	3.32	25	
Bromobenzene	21.9	0.40	0.50	ug/L	20.0		110	83-122	3.48	25	
Bromochloromethane	21.8	0.40	0.50	ug/L	20.0		109	83-124	0.689	25	
Bromodichloromethane	20.3	0.40	0.50	ug/L	20.0		102	86-135	3.76	25	
Bromoform	20.3	0.30	0.50	ug/L	20.0		102	76-144	0.393	25	
Bromomethane	20.4	0.40	0.50	ug/L	20.0		102	69-145	14.4	25	
n-Butylbenzene	20.4	0.40	0.50	ug/L	20.0		102	79-132	6.06	25	
sec-Butylbenzene	23.9	0.40	0.50	ug/L	20.0		120	86-132	2.37	25	
tert-Butylbenzene	22.9	0.30	0.50	ug/L	20.0		114	82-126	3.70	25	
Carbon disulfide	22.1	0.40	5.0	ug/L	20.0		110	70-130	7.62	30	
Carbon tetrachloride	20.4	0.40	0.50	ug/L	20.0		102	77-134	7.37	25	
Chlorobenzene	21.4	0.30	0.50	ug/L	20.0		107	84-119	3.82	25	
Chloroethane	18.5	0.40	0.50	ug/L	20.0		92.4	68-133	6.42	25	
Chloroform	20.7	0.40	0.50	ug/L	20.0		103	81-122	3.54	25	
Chloromethane	22.9	0.40	0.50	ug/L	20.0		115	63-129	7.66	25	
Chloroprene	22.6	0.40	1.0	ug/L	20.0		113	70-130	6.40	25	
2-Chlorotoluene	22.8	0.40	0.50	ug/L	20.0		114	79-132	3.52	25	
4-Chlorotoluene	22.8	0.30	0.50	ug/L	20.0		114	80-122	3.17	25	
Dibromochloromethane	21.2	0.40	0.50	ug/L	20.0		106	83-135	5.67	25	
1,2-Dibromo-3-chloropropane	18.7	0.60	2.0	ug/L	20.0		93.6	73-128	1.18	25	
1,2-Dibromoethane (EDB)	21.6	0.40	0.50	ug/L	20.0		108	80-120	3.54	25	
Dibromomethane	20.0	0.40	0.50	ug/L	20.0		99.9	82-124	1.26	25	
1,2-Dichlorobenzene	21.3	0.40	0.50	ug/L	20.0		107	84-121	6.83	25	
1,3-Dichlorobenzene	21.5	0.40	0.50	ug/L	20.0		108	80-120	3.69	25	
1,4-Dichlorobenzene	20.4	0.10	0.50	ug/L	20.0		102	84-120	6.69	25	
trans-1,4-Dichloro-2-butene	20.4	0.50	5.0	ug/L	20.0		102	70-130	3.04	25	
Dichlorodifluoromethane	24.5	0.40	0.50	ug/L	20.0		122	52-142	9.54	25	
1,1-Dichloroethane	21.3	0.10	0.50	ug/L	20.0		106	81-126	3.34	25	
1,2-Dichloroethane	19.5	0.40	0.50	ug/L	20.0		97.6	77-117	2.38	25	
1,1-Dichloroethene	19.3	0.30	0.50	ug/L	20.0		96.4	71-151	4.18	25	

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 40ml Amber VOA- HCl Project Number: Silicone Batch Number 2018120302	Reported: 03/11/19 11:18
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB94094 - VOAs in Water GCMS

LCS Dup (AB94094-BSD1)

Prepared: 02/25/19 Analyzed: 02/26/19

cis-1,2-Dichloroethene	20.4	0.40	0.50	ug/L	20.0	102	84-131	3.89	25	
trans-1,2-Dichloroethene	20.8	0.40	0.50	ug/L	20.0	104	79-128	3.86	25	
1,2-Dichloropropane	21.2	0.40	0.50	ug/L	20.0	106	82-125	3.21	25	
1,3-Dichloropropane	21.7	0.40	0.50	ug/L	20.0	108	83-120	3.19	25	
2,2-Dichloropropane	16.7	0.20	0.50	ug/L	20.0	83.4	70-130	13.1	25	
1,1-Dichloropropene	22.7	0.40	0.50	ug/L	20.0	113	85-130	6.18	25	
cis-1,3-Dichloropropene	17.4	0.40	0.50	ug/L	20.0	87.0	83-128	4.53	25	
trans-1,3-Dichloropropene	18.0	0.40	0.50	ug/L	20.0	90.2	67-129	6.35	25	
Diethyl ether	22.3	0.20	1.0	ug/L	20.0	112	70-130	8.16	25	
Di-isopropyl ether	22.0	0.40	0.50	ug/L	20.0	110	83-132	2.67	25	
Ethanol	972	50	50	ug/L	980	99.2	50-150	14.4	25	
Ethylbenzene	22.5	0.40	0.50	ug/L	20.0	112	84-124	3.26	25	
Ethyl methacrylate	20.0	0.70	10	ug/L	20.0	99.9	70-130	3.00	25	
Ethyl tert-butyl ether	21.3	0.40	0.50	ug/L	20.0	106	74-127	0.0940	25	
Hexachloroethane	18.2	0.40	1.0	ug/L	20.0	91.2	70-130	5.23	25	
Hexachlorobutadiene	20.8	0.50	0.50	ug/L	20.0	104	75-135	2.38	25	
2-Hexanone	21.7	0.50	5.0	ug/L	20.0	109	70-130	1.05	30	
Isobutanol	2210	40	100	ug/L	2000	110	70-130	7.26	25	
Isopropylbenzene	23.7	0.40	0.50	ug/L	20.0	118	70-130	4.27	25	
p-Isopropyltoluene	24.0	0.40	0.50	ug/L	20.0	120	78-124	4.96	25	
Methylene chloride	20.3	0.50	0.50	ug/L	20.0	102	72-132	1.03	25	
Methacrylonitrile	23.0	0.40	1.0	ug/L	20.0	115	70-130	5.12	25	
Methyl ethyl ketone	48.3	0.70	1.0	ug/L	40.0	121	58-157	15.0	25	
Methyl iodide	21.5	0.40	2.0	ug/L	20.0	108	56-167	6.43	30	
Methyl isobutyl ketone	43.3	0.60	1.0	ug/L	40.0	108	70-130	0.989	25	
Methyl methacrylate	19.2	0.40	1.0	ug/L	20.0	95.8	70-130	1.15	25	
Propionitrile	1110	20	50	ug/L	1000	111	70-130	18.6	25	
Naphthalene	20.8	0.50	0.50	ug/L	20.0	104	84-134	1.34	25	
Methyl tert-butyl ether	18.9	0.50	0.50	ug/L	20.0	94.6	84-119	3.94	25	
n-Propylbenzene	22.7	0.40	0.50	ug/L	20.0	114	75-127	4.55	25	
Styrene	24.2	0.40	0.50	ug/L	20.0	121	80-125	5.78	25	
Tert-amyl methyl ether	19.5	0.40	0.50	ug/L	20.0	97.6	74-120	6.72	25	
Tert-butyl alcohol	407	6.0	10	ug/L	400	102	66-147	12.6	25	
1,1,1,2-Tetrachloroethane	21.8	0.40	0.50	ug/L	20.0	109	80-132	7.09	25	
1,1,2,2-Tetrachloroethane	20.5	0.30	0.50	ug/L	20.0	102	84-115	3.64	25	
Tetrachloroethene	21.9	0.40	0.50	ug/L	20.0	109	56-156	6.66	25	

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB94094 - VOAs in Water GCMS

LCS Dup (AB94094-BSD1)

Prepared: 02/25/19 Analyzed: 02/26/19

Tetrahydrofuran	24.2	0.40	5.0	ug/L	20.0	121	70-130	1.92	25	
Toluene	21.6	0.30	0.30	ug/L	20.0	108	76-137	4.54	25	
1,2,4-Trichlorobenzene	22.4	0.20	0.50	ug/L	20.0	112	84-126	1.39	25	
1,2,3-Trichlorobenzene	20.0	0.50	0.50	ug/L	20.0	100	85-133	1.83	25	
1,1,1-Trichloroethane	21.8	0.40	0.50	ug/L	20.0	109	70-130	9.60	25	
1,1,2-Trichloroethane	20.8	0.40	0.50	ug/L	20.0	104	83-122	0.192	25	
Trichloroethene	22.4	0.40	0.50	ug/L	20.0	112	84-123	8.47	25	
Trichlorofluoromethane	21.0	0.20	0.50	ug/L	20.0	105	74-130	3.88	25	
1,2,3-Trichloropropane	21.4	0.40	0.50	ug/L	20.0	107	78-122	0.00	25	
Trichlorotrifluoroethane	21.6	0.50	0.50	ug/L	20.0	108	82-125	6.44	25	
1,2,4-Trimethylbenzene	23.8	0.40	0.50	ug/L	20.0	119	85-127	5.04	25	
1,3,5-Trimethylbenzene	23.1	0.30	0.50	ug/L	20.0	116	80-125	5.19	25	
Vinyl acetate	34.3	0.80	1.0	ug/L	40.0	85.8	60-140	17.2	25	
Vinyl chloride	20.8	0.40	0.50	ug/L	20.0	104	70-130	21.0	25	
m,p-Xylene	45.1	0.50	0.50	ug/L	40.0	113	81-124	3.52	25	
o-Xylene	23.7	0.40	0.50	ug/L	20.0	119	80-126	5.94	25	
Xylenes (total)	68.8	0.50	0.50	ug/L	60.0	115	81-126	4.35	25	
Surrogate: Bromofluorobenzene	28.0			ug/L	25.0	112	70-130			
Surrogate: Dibromofluoromethane	24.9			ug/L	25.0	99.8	70-130			
Surrogate: Toluene-d8	26.0			ug/L	25.0	104	70-130			

Matrix Spike (AB94094-MS1)

Source: 19B2583-01

Prepared: 02/25/19 Analyzed: 02/26/19

Acetone	101	3.0	5.0	ug/L	80.0	ND	127	32-164		
Acetonitrile	2060	50	100	ug/L	2000	ND	103	70-130		
Allyl chloride	24.7	0.40	10	ug/L	20.0	ND	124	70-130		
Acrylonitrile	20.8	0.40	5.0	ug/L	20.0	ND	104	70-130		
Benzene	19.4	0.30	0.30	ug/L	20.0	ND	97.2	58-139		
Bromobenzene	20.9	0.40	0.50	ug/L	20.0	ND	104	63-143		
Bromochloromethane	21.7	0.40	0.50	ug/L	20.0	ND	108	60-141		
Bromodichloromethane	19.1	0.40	0.50	ug/L	20.0	ND	95.6	62-140		
Bromoform	18.9	0.30	0.50	ug/L	20.0	ND	94.6	47-165		
Bromomethane	18.8	0.40	0.50	ug/L	20.0	ND	93.8	30-163		
n-Butylbenzene	20.6	0.40	0.50	ug/L	20.0	ND	103	57-147		
sec-Butylbenzene	23.5	0.40	0.50	ug/L	20.0	ND	117	64-155		
tert-Butylbenzene	22.0	0.30	0.50	ug/L	20.0	ND	110	57-150		
Carbon disulfide	21.5	0.40	5.0	ug/L	20.0	ND	107	70-130		
Carbon tetrachloride	20.2	0.40	0.50	ug/L	20.0	ND	101	65-153		

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 40ml Amber VOA- HCl Project Number: Silicone Batch Number 2018120302	Reported: 03/11/19 11:18
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB94094 - VOAs in Water GCMS

Matrix Spike (AB94094-MS1)	Source: 19B2583-01			Prepared: 02/25/19		Analyzed: 02/26/19		
Chlorobenzene	20.2	0.30	0.50	ug/L	20.0	ND	101	58-137
Chloroethane	16.0	0.40	0.50	ug/L	20.0	ND	79.8	59-141
Chloroform	20.3	0.40	0.50	ug/L	20.0	ND	102	36-151
Chloromethane	23.5	0.40	0.50	ug/L	20.0	ND	118	69-149
Chloroprene	22.6	0.40	1.0	ug/L	20.0	ND	113	70-130
2-Chlorotoluene	22.1	0.40	0.50	ug/L	20.0	ND	111	54-150
4-Chlorotoluene	21.9	0.30	0.50	ug/L	20.0	ND	109	59-140
Dibromochloromethane	19.5	0.40	0.50	ug/L	20.0	ND	97.4	54-157
1,2-Dibromo-3-chloropropane	17.7	0.60	2.0	ug/L	20.0	ND	88.7	54-137
1,2-Dibromoethane (EDB)	20.3	0.40	0.50	ug/L	20.0	ND	102	40-147
Dibromomethane	19.5	0.40	0.50	ug/L	20.0	ND	97.7	59-139
1,2-Dichlorobenzene	20.3	0.40	0.50	ug/L	20.0	ND	102	39-145
1,3-Dichlorobenzene	20.4	0.40	0.50	ug/L	20.0	ND	102	54-137
1,4-Dichlorobenzene	19.4	0.10	0.50	ug/L	20.0	ND	97.0	41-142
trans-1,4-Dichloro-2-butene	18.4	0.50	5.0	ug/L	20.0	ND	92.0	70-130
Dichlorodifluoromethane	24.6	0.40	0.50	ug/L	20.0	ND	123	39-162
1,1-Dichloroethane	20.8	0.10	0.50	ug/L	20.0	ND	104	39-146
1,2-Dichloroethane	19.0	0.40	0.50	ug/L	20.0	ND	95.1	58-133
1,1-Dichloroethene	18.3	0.30	0.50	ug/L	20.0	ND	91.6	70-154
cis-1,2-Dichloroethene	20.0	0.40	0.50	ug/L	20.0	ND	100	66-141
trans-1,2-Dichloroethene	20.8	0.40	0.50	ug/L	20.0	ND	104	59-151
1,2-Dichloropropane	20.1	0.40	0.50	ug/L	20.0	ND	101	41-142
1,3-Dichloropropane	20.6	0.40	0.50	ug/L	20.0	ND	103	62-139
2,2-Dichloropropane	20.7	0.20	0.50	ug/L	20.0	ND	104	40-167
1,1-Dichloropropene	22.7	0.40	0.50	ug/L	20.0	ND	114	58-148
cis-1,3-Dichloropropene	16.4	0.40	0.50	ug/L	20.0	ND	81.8	50-140
trans-1,3-Dichloropropene	17.1	0.40	0.50	ug/L	20.0	ND	85.4	40-144
Diethyl ether	19.7	0.20	1.0	ug/L	20.0	ND	98.4	70-130
Di-isopropyl ether	21.2	0.40	0.50	ug/L	20.0	ND	106	49-143
Ethanol	934	50	50	ug/L	980	ND	95.3	50-150
Ethyl methacrylate	19.3	0.70	10	ug/L	20.0	ND	96.4	70-130
Ethylbenzene	21.8	0.40	0.50	ug/L	20.0	ND	109	59-147
Ethyl tert-butyl ether	17.8	0.40	0.50	ug/L	20.0	ND	89.0	44-143
Hexachlorobutadiene	19.7	0.50	0.50	ug/L	20.0	ND	98.5	56-149
Hexachloroethane	17.2	0.40	1.0	ug/L	20.0	ND	85.8	70-130
2-Hexanone	22.7	0.50	5.0	ug/L	20.0	ND	113	70-130

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 40ml Amber VOA- HCl Project Number: Silicone Batch Number 2018120302	Reported: 03/11/19 11:18
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB94094 - VOAs in Water GCMS

Matrix Spike (AB94094-MS1)	Source: 19B2583-01			Prepared: 02/25/19 Analyzed: 02/26/19							
Isobutanol	2010	40	100	ug/L	2000	ND	101	70-130			
Isopropylbenzene	22.9	0.40	0.50	ug/L	20.0	ND	114	56-134			
p-Isopropyltoluene	23.5	0.40	0.50	ug/L	20.0	ND	117	54-148			
Methacrylonitrile	23.4	0.40	1.0	ug/L	20.0	ND	117	70-130			
Methylene chloride	18.2	0.50	0.50	ug/L	20.0	ND	90.9	43-143			
Methyl ethyl ketone	47.0	0.70	1.0	ug/L	40.0	ND	118	62-126			
Methyl iodide	19.7	0.40	2.0	ug/L	20.0	ND	98.6	70-130			
Methyl isobutyl ketone	43.8	0.60	1.0	ug/L	40.0	ND	109	66-127			
Methyl methacrylate	19.2	0.40	1.0	ug/L	20.0	ND	96.0	70-130			
Naphthalene	19.5	0.50	0.50	ug/L	20.0	ND	97.7	52-157			
Propionitrile	1170	20	50	ug/L	1000	ND	117	70-130			
Methyl tert-butyl ether	17.8	0.50	0.50	ug/L	20.0	ND	89.0	55-144			
n-Propylbenzene	21.8	0.40	0.50	ug/L	20.0	ND	109	55-145			
Styrene	22.7	0.40	0.50	ug/L	20.0	ND	113	51-157			
Tert-amyl methyl ether	18.0	0.40	0.50	ug/L	20.0	ND	89.9	41-136			
Tert-butyl alcohol	439	6.0	10	ug/L	400	ND	110	38-175			
1,1,1,2-Tetrachloroethane	19.8	0.40	0.50	ug/L	20.0	ND	99.2	58-146			
1,1,2,2-Tetrachloroethane	20.5	0.30	0.50	ug/L	20.0	ND	103	73-127			
Tetrachloroethene	21.9	0.40	0.50	ug/L	20.0	ND	109	49-148			
Tetrahydrofuran	21.8	0.40	5.0	ug/L	20.0	ND	109	70-130			
Toluene	20.8	0.30	0.30	ug/L	20.0	ND	104	59-147			
1,2,4-Trichlorobenzene	21.2	0.20	0.50	ug/L	20.0	ND	106	50-150			
1,2,3-Trichlorobenzene	19.0	0.50	0.50	ug/L	20.0	ND	95.0	50-161			
1,1,1-Trichloroethane	21.5	0.40	0.50	ug/L	20.0	ND	108	38-164			
1,1,2-Trichloroethane	20.1	0.40	0.50	ug/L	20.0	ND	101	46-136			
Trichloroethene	20.8	0.40	0.50	ug/L	20.0	ND	104	58-140			
Trichlorofluoromethane	20.2	0.20	0.50	ug/L	20.0	ND	101	56-144			
1,2,3-Trichloropropane	21.0	0.40	0.50	ug/L	20.0	ND	105	61-139			
Trichlorotrifluoroethane	21.5	0.50	0.50	ug/L	20.0	ND	108	59-139			
1,2,4-Trimethylbenzene	22.4	0.40	0.50	ug/L	20.0	ND	112	58-152			
1,3,5-Trimethylbenzene	21.6	0.30	0.50	ug/L	20.0	ND	108	58-148			
Vinyl acetate	38.6	0.80	1.0	ug/L	40.0	ND	96.4	70-130			
Vinyl chloride	25.1	0.40	0.50	ug/L	20.0	ND	126	53-160			
m,p-Xylene	43.8	0.50	0.50	ug/L	40.0	ND	110	53-147			
o-Xylene	21.8	0.40	0.50	ug/L	20.0	ND	109	55-148			
Xylenes (total)	65.7	0.50	0.50	ug/L	60.0	ND	109	49-153			

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 40ml Amber VOA- HCl Project Number: Silicone Batch Number 2018120302	Reported: 03/11/19 11:18
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB94094 - VOAs in Water GCMS

Matrix Spike (AB94094-MS1)	Source: 19B2583-01	Prepared: 02/25/19	Analyzed: 02/26/19		
Surrogate: Bromofluorobenzene	28.6	ug/L	25.0	115	70-130
Surrogate: Dibromofluoromethane	25.7	ug/L	25.0	103	70-130
Surrogate: Toluene-d8	25.7	ug/L	25.0	103	70-130

Matrix Spike Dup (AB94094-MSD1)	Source: 19B2583-01	Prepared: 02/25/19	Analyzed: 02/26/19							
Acetone	103	3.0	5.0	ug/L	80.0	ND	129	32-164	1.46	25
Acetonitrile	2050	50	100	ug/L	2000	ND	102	70-130	0.591	25
Allyl chloride	20.4	0.40	10	ug/L	20.0	ND	102	70-130	18.9	25
Acrylonitrile	25.0	0.40	5.0	ug/L	20.0	ND	125	70-130	18.7	25
Benzene	20.7	0.30	0.30	ug/L	20.0	ND	103	58-139	6.03	25
Bromobenzene	22.9	0.40	0.50	ug/L	20.0	ND	114	63-143	9.14	25
Bromochloromethane	21.9	0.40	0.50	ug/L	20.0	ND	109	60-141	0.965	25
Bromodichloromethane	20.2	0.40	0.50	ug/L	20.0	ND	101	62-140	5.64	25
Bromoform	21.0	0.30	0.50	ug/L	20.0	ND	105	47-165	10.5	25
Bromomethane	20.6	0.40	0.50	ug/L	20.0	ND	103	30-163	9.10	25
n-Butylbenzene	21.6	0.40	0.50	ug/L	20.0	ND	108	57-147	5.12	25
sec-Butylbenzene	24.7	0.40	0.50	ug/L	20.0	ND	124	64-155	5.18	25
tert-Butylbenzene	23.5	0.30	0.50	ug/L	20.0	ND	118	57-150	6.45	25
Carbon disulfide	22.6	0.40	5.0	ug/L	20.0	ND	113	70-130	4.86	30
Carbon tetrachloride	20.6	0.40	0.50	ug/L	20.0	ND	103	65-153	2.26	25
Chlorobenzene	21.7	0.30	0.50	ug/L	20.0	ND	108	58-137	7.22	25
Chloroethane	15.5	0.40	0.50	ug/L	20.0	ND	77.4	59-141	3.05	25
Chloroform	21.1	0.40	0.50	ug/L	20.0	ND	106	36-151	3.72	25
Chloromethane	25.6	0.40	0.50	ug/L	20.0	ND	128	69-149	8.23	25
Chloroprene	23.2	0.40	1.0	ug/L	20.0	ND	116	70-130	2.40	25
2-Chlorotoluene	23.6	0.40	0.50	ug/L	20.0	ND	118	54-150	6.43	25
4-Chlorotoluene	23.7	0.30	0.50	ug/L	20.0	ND	119	59-140	8.20	25
Dibromochloromethane	21.1	0.40	0.50	ug/L	20.0	ND	105	54-157	7.84	25
1,2-Dibromo-3-chloropropane	20.0	0.60	2.0	ug/L	20.0	ND	100	54-137	12.2	25
1,2-Dibromoethane (EDB)	22.0	0.40	0.50	ug/L	20.0	ND	110	40-147	8.17	25
Dibromomethane	20.4	0.40	0.50	ug/L	20.0	ND	102	59-139	4.31	25
1,2-Dichlorobenzene	21.3	0.40	0.50	ug/L	20.0	ND	106	39-145	4.62	25
1,3-Dichlorobenzene	22.4	0.40	0.50	ug/L	20.0	ND	112	54-137	9.53	25
1,4-Dichlorobenzene	20.2	0.10	0.50	ug/L	20.0	ND	101	41-142	4.19	25
trans-1,4-Dichloro-2-butene	19.8	0.50	5.0	ug/L	20.0	ND	99.1	70-130	7.38	25
Dichlorodifluoromethane	25.3	0.40	0.50	ug/L	20.0	ND	127	39-162	3.05	25
1,1-Dichloroethane	22.0	0.10	0.50	ug/L	20.0	ND	110	39-146	5.56	25

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Sample Traps, LLC 262 Rickenbacker Circle Livermore CA, 94551	Project Manager: Quality Control Manager Project: QC- 40ml Amber VOA- HCl Project Number: Silicone Batch Number 2018120302	Reported: 03/11/19 11:18
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB94094 - VOAs in Water GCMS

Matrix Spike Dup (AB94094-MSD1)	Source: 19B2583-01			Prepared: 02/25/19 Analyzed: 02/26/19							
1,2-Dichloroethane	19.3	0.40	0.50	ug/L	20.0	ND	96.4	58-133	1.41	25	
1,1-Dichloroethene	20.4	0.30	0.50	ug/L	20.0	ND	102	70-154	10.7	25	
cis-1,2-Dichloroethene	20.7	0.40	0.50	ug/L	20.0	ND	104	66-141	3.29	25	
trans-1,2-Dichloroethene	21.7	0.40	0.50	ug/L	20.0	ND	109	59-151	4.28	25	
1,2-Dichloropropane	21.8	0.40	0.50	ug/L	20.0	ND	109	41-142	7.78	25	
1,3-Dichloropropane	22.1	0.40	0.50	ug/L	20.0	ND	111	62-139	7.21	25	
2,2-Dichloropropane	21.5	0.20	0.50	ug/L	20.0	ND	107	40-167	3.70	25	
1,1-Dichloropropene	23.6	0.40	0.50	ug/L	20.0	ND	118	58-148	3.92	25	
cis-1,3-Dichloropropene	17.6	0.40	0.50	ug/L	20.0	ND	87.8	50-140	7.07	25	
trans-1,3-Dichloropropene	18.6	0.40	0.50	ug/L	20.0	ND	93.2	40-144	8.73	25	
Diethyl ether	24.2	0.20	1.0	ug/L	20.0	ND	121	70-130	20.8	25	
Di-isopropyl ether	22.3	0.40	0.50	ug/L	20.0	ND	112	49-143	5.29	25	
Ethyl methacrylate	21.1	0.70	10	ug/L	20.0	ND	106	70-130	9.11	25	
Ethylbenzene	23.4	0.40	0.50	ug/L	20.0	ND	117	59-147	7.07	25	
Ethanol	1120	50	50	ug/L	980	ND	114	50-150	17.8	25	
Ethyl tert-butyl ether	19.0	0.40	0.50	ug/L	20.0	ND	95.0	44-143	6.53	25	
Hexachloroethane	17.7	0.40	1.0	ug/L	20.0	ND	88.4	70-130	2.99	25	
Hexachlorobutadiene	22.9	0.50	0.50	ug/L	20.0	ND	114	56-149	14.8	25	
2-Hexanone	25.8	0.50	5.0	ug/L	20.0	ND	129	70-130	12.8	30	
Isopropylbenzene	24.1	0.40	0.50	ug/L	20.0	ND	121	56-134	5.23	25	
Isobutanol	2020	40	100	ug/L	2000	ND	101	70-130	0.462	25	
p-Isopropyltoluene	25.0	0.40	0.50	ug/L	20.0	ND	125	54-148	6.11	25	
Methylene chloride	19.9	0.50	0.50	ug/L	20.0	ND	99.7	43-143	9.23	25	
Methacrylonitrile	25.2	0.40	1.0	ug/L	20.0	ND	126	70-130	7.00	25	
Methyl ethyl ketone	44.2	0.70	1.0	ug/L	40.0	ND	111	62-126	6.18	25	
Methyl iodide	21.6	0.40	2.0	ug/L	20.0	ND	108	70-130	8.87	30	
Methyl isobutyl ketone	48.0	0.60	1.0	ug/L	40.0	ND	120	66-127	9.28	25	
Methyl methacrylate	20.6	0.40	1.0	ug/L	20.0	ND	103	70-130	6.94	25	
Propionitrile	1060	20	50	ug/L	1000	ND	106	70-130	10.5	25	
Methyl tert-butyl ether	18.7	0.50	0.50	ug/L	20.0	ND	93.6	55-144	5.09	25	
Naphthalene	22.3	0.50	0.50	ug/L	20.0	ND	111	52-157	13.1	25	
n-Propylbenzene	23.5	0.40	0.50	ug/L	20.0	ND	118	55-145	7.54	25	
Styrene	24.6	0.40	0.50	ug/L	20.0	ND	123	51-157	7.87	25	
Tert-amyl methyl ether	19.0	0.40	0.50	ug/L	20.0	ND	94.8	41-136	5.36	25	
Tert-butyl alcohol	417	6.0	10	ug/L	400	ND	104	38-175	5.27	25	
1,1,1,2-Tetrachloroethane	21.0	0.40	0.50	ug/L	20.0	ND	105	58-146	5.54	25	

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB94094 - VOAs in Water GCMS

Matrix Spike Dup (AB94094-MSD1)	Source: 19B2583-01			Prepared: 02/25/19 Analyzed: 02/26/19							
1,1,2,2-Tetrachloroethane	21.7	0.30	0.50	ug/L	20.0	ND	108	73-127	5.35	25	
Tetrachloroethene	23.8	0.40	0.50	ug/L	20.0	ND	119	49-148	8.32	25	
Tetrahydrofuran	27.0	0.40	5.0	ug/L	20.0	ND	135	70-130	21.6	25	QM-05
Toluene	22.0	0.30	0.30	ug/L	20.0	ND	110	59-147	5.47	25	
1,2,3-Trichlorobenzene	21.8	0.50	0.50	ug/L	20.0	ND	109	50-161	13.7	25	
1,2,4-Trichlorobenzene	24.6	0.20	0.50	ug/L	20.0	ND	123	50-150	14.7	25	
1,1,1-Trichloroethane	22.0	0.40	0.50	ug/L	20.0	ND	110	38-164	2.11	25	
1,1,2-Trichloroethane	21.6	0.40	0.50	ug/L	20.0	ND	108	46-136	7.04	25	
Trichloroethene	21.7	0.40	0.50	ug/L	20.0	ND	108	58-140	4.15	25	
Trichlorofluoromethane	21.6	0.20	0.50	ug/L	20.0	ND	108	56-144	6.57	25	
1,2,3-Trichloropropane	22.7	0.40	0.50	ug/L	20.0	ND	113	61-139	7.37	25	
Trichlorotrifluoroethane	22.8	0.50	0.50	ug/L	20.0	ND	114	59-139	5.73	25	
1,2,4-Trimethylbenzene	24.2	0.40	0.50	ug/L	20.0	ND	121	58-152	8.11	25	
1,3,5-Trimethylbenzene	23.0	0.30	0.50	ug/L	20.0	ND	115	58-148	6.09	25	
Vinyl acetate	41.6	0.80	1.0	ug/L	40.0	ND	104	70-130	7.51	25	
Vinyl chloride	25.3	0.40	0.50	ug/L	20.0	ND	126	53-160	0.715	25	
m,p-Xylene	46.2	0.50	0.50	ug/L	40.0	ND	116	53-147	5.33	25	
o-Xylene	23.1	0.40	0.50	ug/L	20.0	ND	116	55-148	5.70	25	
Xylenes (total)	69.4	0.50	0.50	ug/L	60.0	ND	116	49-153	5.45	25	
Surrogate: Bromofluorobenzene	28.3			ug/L	25.0		113	70-130			
Surrogate: Dibromofluoromethane	26.0			ug/L	25.0		104	70-130			
Surrogate: Toluene-d8	26.5			ug/L	25.0		106	70-130			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com
Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

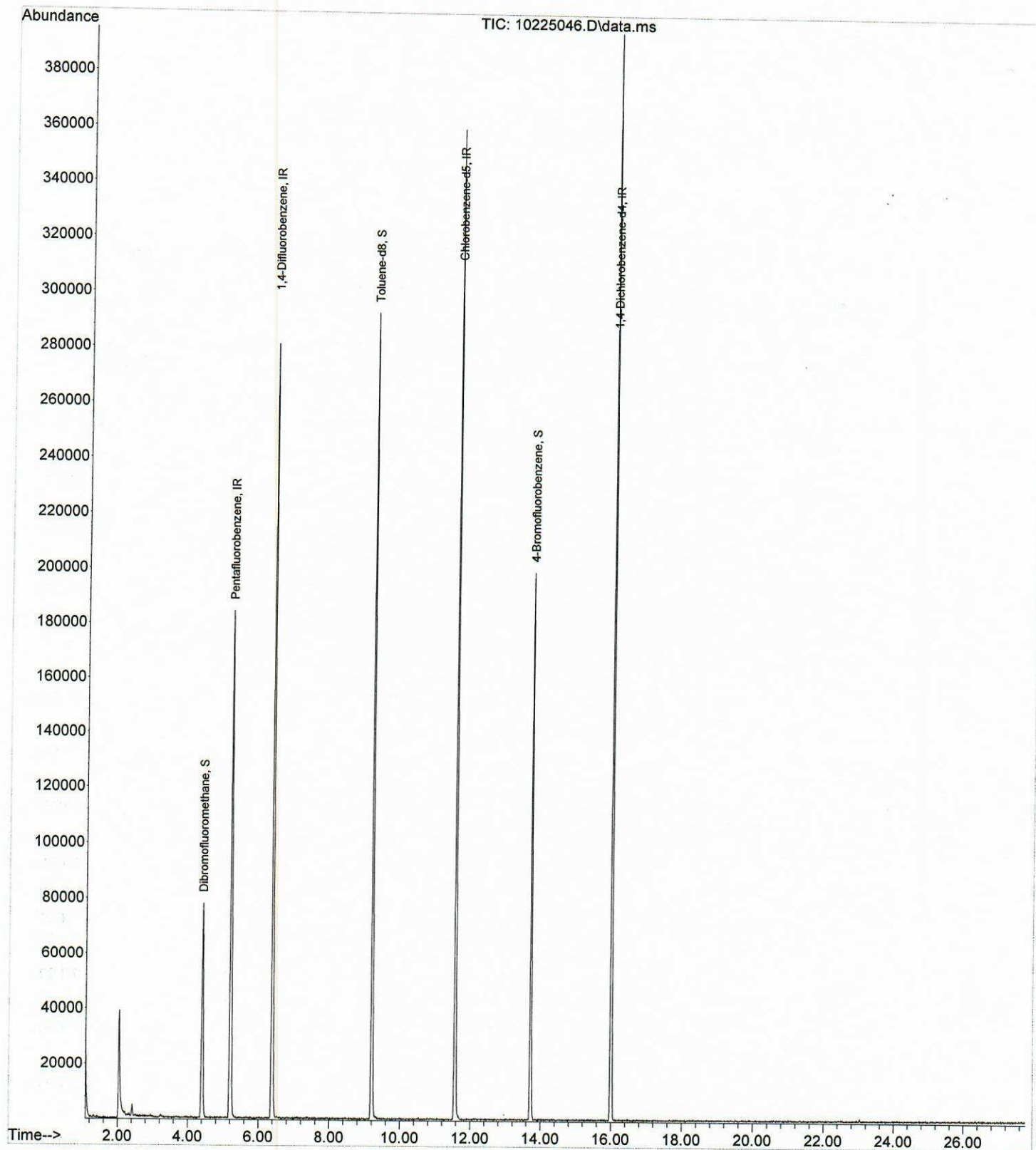
Project Manager: Quality Control Manager
Project: QC- 40ml Amber VOA- HCl
Project Number: Silicone Batch Number 2018120302

Reported:
03/11/19 11:18

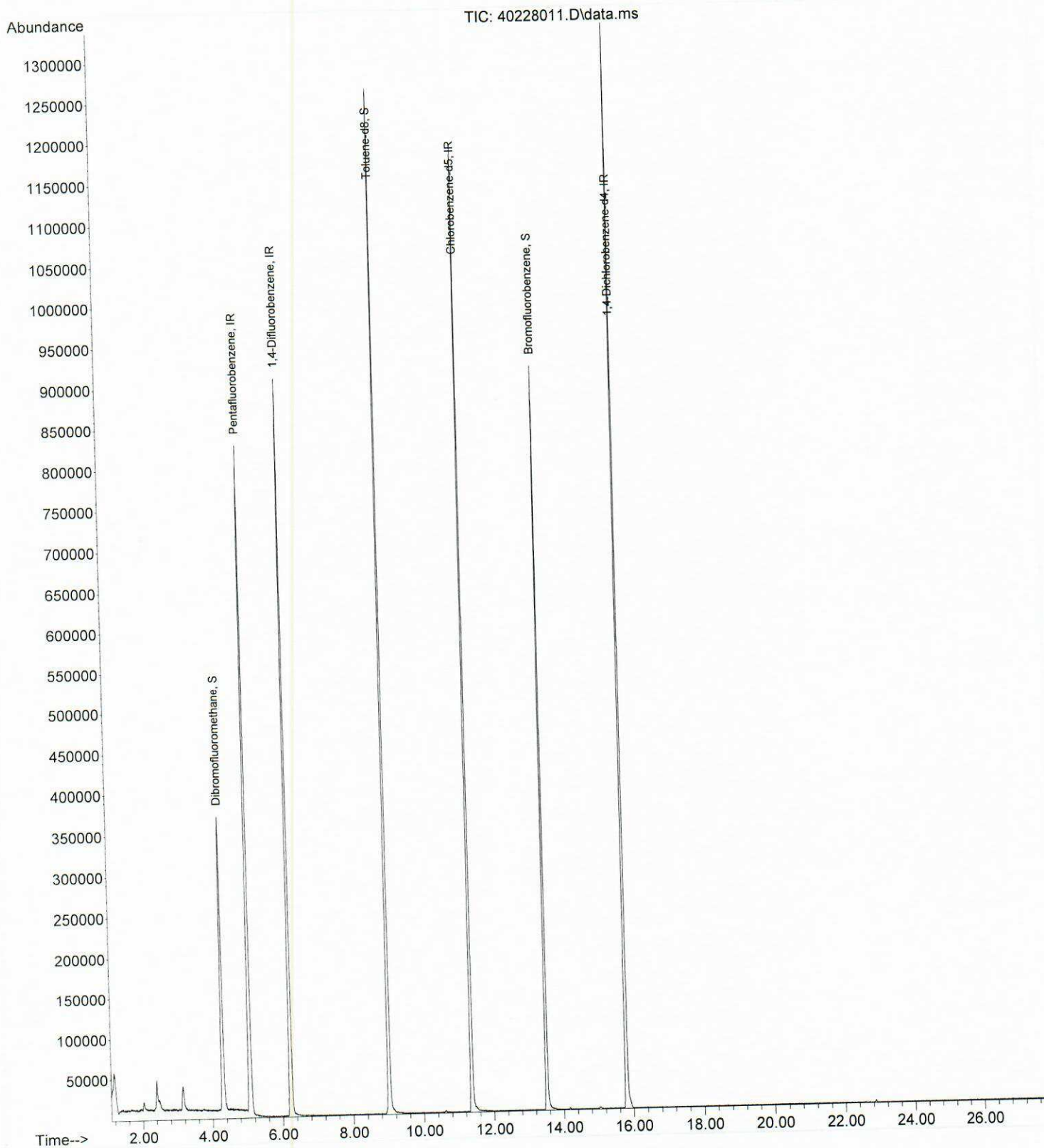
Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- U Analyte included in analysis, but not detected at or above MDL.
- ND Analyte NOT DETECTED at or above the reporting limit
- dry Sample results reported on a dry weight basis
- MDL Method detection limit
- Rec Recovery
- RPD Relative Percent Difference

File :D:\Data\022519\10225046.D
Operator : MM
Acquired : 26 Feb 2019 3:30 pm using AcqMethod MS1INS.M
Instrument : GCMS1
Sample Name: 19B2085-01
Misc Info :
Vial Number: 46



File : C:\msdchem\1\data\022819\40228011.D
Operator : JV
Acquired : 28 Feb 2019 2:16 pm using AcqMethod MS4INS_BFBATUNE.M
Instrument : GCMS4
Sample Name: 19B2085-02
Misc Info :
Vial Number: 11





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925-828-6226 Fax: 925-828-6309

Chain of Custody Record

Reports and Invoices will be delivered by email in .pdf format.

Lab No. 19B2085 Page of

Report to: Company: Sample Traps LLC Attn: Quality Control Manager Address: _____ Phone/Fax: _____ Email Address: admin@sampletraps.com		Project Info for Report: Project ID: QC- 40ml Amber VOA Vial (HCL) Project No: Silicone Batch Number 2018120302 PO/Reference: _____		Signature below authorizes work under terms stated on reverse side.	
Invoice to (if different): Company: _____ Attn: _____ Address: _____ Phone/Fax: _____ Email Address: _____		Project Info for Report: Project ID: QC- 40ml Amber VOA Vial (HCL) Project No: Silicone Batch Number 2018120302 PO/Reference: _____		Analyses Requested	
Samplers Signature: _____		Container: 40ml VOA <input checked="" type="checkbox"/> Glass Jar <input type="checkbox"/> Glass bottle <input type="checkbox"/> Poly <input type="checkbox"/>		TAT 10 days <input type="checkbox"/> RUSH: 5 days <input type="checkbox"/> 48 hours <input type="checkbox"/> Other: _____ days <input type="checkbox"/>	
Print: _____		Preservative: HCL <input checked="" type="checkbox"/> Na Bisulfate <input type="checkbox"/> Methanol <input type="checkbox"/> Other <input type="checkbox"/> None <input type="checkbox"/> Water <input type="checkbox"/> Container <input checked="" type="checkbox"/>		Sample Notes (lab use only) Temperature: _____ deg. C Shipment Method: _____ Custody Seals: Y / N	
Sample Identification		Matrix:		Lab Approval Required For Rush TATs	
A9045CVBS - 01	Sampled: _____	40ml VOA <input checked="" type="checkbox"/>	Water <input type="checkbox"/>	<input type="checkbox"/>	
A9045CVBS - 02	Date _____	Glass Jar <input type="checkbox"/>	None <input type="checkbox"/>	<input type="checkbox"/>	
	Time _____	Glass bottle <input type="checkbox"/>	Other <input type="checkbox"/>	<input type="checkbox"/>	
		Poly <input type="checkbox"/>	Na Bisulfate <input type="checkbox"/>	<input type="checkbox"/>	
		40ml VOA <input checked="" type="checkbox"/>	Methanol <input type="checkbox"/>	<input type="checkbox"/>	
		Glass Jar <input type="checkbox"/>	Other <input type="checkbox"/>	<input type="checkbox"/>	
		Glass bottle <input type="checkbox"/>	None <input type="checkbox"/>	<input type="checkbox"/>	
		Poly <input type="checkbox"/>	Water <input type="checkbox"/>	<input type="checkbox"/>	
		40ml VOA <input checked="" type="checkbox"/>	Container <input checked="" type="checkbox"/>	<input type="checkbox"/>	
please use Ukiah reagent water for the analysis					
8260 Sample Traps					
524 2 Sample Traps					
-flags					
include chromatograph with report					
Total Number of Containers: 2					
Sample Source Numbers:					
CDPH Write On EDT Transmission? <input type="checkbox"/> Yes <input type="checkbox"/> No					
State System Number: _____					
If "Y" please enter the Source Number(s) in the column above					
CA Geotracker EDF Report? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Global ID: _____ Sampling Company Log Code: _____					
EDF to (Email Address): _____					
Travel and Site Time _____ Mileage _____ Misc. Supplies _____					
Relinquished by: _____ Date: 2/19/19 Time: 0900					
Received by: 