



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

07 June 2019

Sample Traps, LLC

Attn: Quality Control Manager

262 Rickenbacker Circle

Livermore, CA 94551

RE: QC- 40ml Amber VOA- HCl

Work Order: 19E2894

Enclosed are the results of analyses for samples received by the laboratory on 05/24/19 08:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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 2019032803

Reported:
06/07/19 16:58

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
A9141CVBS - 01	19E2894-01	Water	05/24/19 00:00	05/24/19 08:00
A9141CVBS - 02	19E2894-02	Water	05/24/19 00:00	05/24/19 08:00



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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 2019032803

Reported:
 06/07/19 16:58

Volatile Organic Compounds by EPA Method 524.2

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

A9141CVBS - 02 (19E2894-02) Water Sampled: 05/24/19 00:00 Received: 05/24/19 08:00

Acetone	ND	2.0	5.0	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Acrylonitrile	ND	0.40	5.0	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Benzene	ND	0.10	0.30	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Bromobenzene	ND	0.20	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Bromochloromethane	ND	0.40	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Bromodichloromethane	ND	0.20	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Bromoform	ND	0.30	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Bromomethane	ND	0.40	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
n-Butylbenzene	ND	0.50	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
sec-Butylbenzene	ND	0.20	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
tert-Butylbenzene	ND	0.50	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Carbon disulfide	ND	0.40	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Carbon tetrachloride	ND	0.30	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Chlorobenzene	ND	0.20	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Chloroethane	ND	0.30	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Chloroform	ND	0.30	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Chloromethane	ND	0.40	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
2-Chlorotoluene	ND	0.20	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
4-Chlorotoluene	ND	0.20	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Dibromochloromethane	ND	0.30	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
1,2-Dibromoethane (EDB)	ND	0.20	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Dibromomethane	ND	0.20	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
1,2-Dichlorobenzene	ND	0.20	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
1,3-Dichlorobenzene	ND	0.20	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
1,4-Dichlorobenzene	ND	0.20	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
trans-1,4-Dichloro-2-butene	ND	0.90	5.0	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Dichlorodifluoromethane	ND	0.50	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
1,1-Dichloroethane	ND	0.20	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
1,2-Dichloroethane	ND	0.10	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
1,1-Dichloroethene	ND	0.30	0.30	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
cis-1,2-Dichloroethene	ND	0.10	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
trans-1,2-Dichloroethene	ND	0.10	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
1,2-Dichloropropane	ND	0.20	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
1,3-Dichloropropane	ND	0.10	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
2,2-Dichloropropane	ND	0.30	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U

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 Livermore CA, 94551

Project Manager: Quality Control Manager
 Project: QC- 40ml Amber VOA- HCl
 Project Number: Silicone Batch Number 2019032803

Reported:
 06/07/19 16:58

Volatile Organic Compounds by EPA Method 524.2

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

A9141CVBS - 02 (19E2894-02) Water Sampled: 05/24/19 00:00 Received: 05/24/19 08:00

1,1-Dichloropropene	ND	0.20	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
cis-1,3-Dichloropropene	ND	0.30	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
trans-1,3-Dichloropropene	ND	0.30	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
1,3-Dichloropropene (total)	ND	0.30	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
2-Hexanone	ND	0.50	5.0	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Ethylbenzene	ND	0.20	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Hexachlorobutadiene	ND	0.40	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Isopropylbenzene	ND	0.20	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
p-Isopropyltoluene	ND	0.50	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Methyl ethyl ketone	ND	0.20	1.0	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Methyl iodide	ND	0.40	2.0	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Methyl isobutyl ketone	ND	0.30	1.0	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Methylene chloride	ND	0.40	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Naphthalene	ND	0.50	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
n-Propylbenzene	ND	0.50	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Styrene	ND	0.20	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
1,1,1,2-Tetrachloroethane	ND	0.40	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
1,1,2,2-Tetrachloroethane	ND	0.20	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Tetrachloroethene	ND	0.20	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Toluene	ND	0.30	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
1,2,3-Trichlorobenzene	ND	0.40	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
1,2,4-Trichlorobenzene	ND	0.40	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
1,1,1-Trichloroethane	ND	0.40	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
1,1,2-Trichloroethane	ND	0.20	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Trichloroethene	ND	0.10	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Trichlorofluoromethane	ND	0.50	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Trichlorotrifluoroethane	ND	0.40	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
1,2,3-Trichloropropane	ND	0.10	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
1,2,4-Trimethylbenzene	ND	0.50	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
1,3,5-Trimethylbenzene	ND	0.50	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Vinyl chloride	ND	0.50	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
m,p-Xylene	ND	0.20	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
o-Xylene	ND	0.20	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Xylenes (total)	ND	0.20	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Trihalomethanes (total)	ND	0.30	0.50	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Methyl tert-butyl ether	ND	0.50	3.0	ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	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 2019032803

Reported:
 06/07/19 16:58

Volatile Organic Compounds by EPA Method 524.2

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
A9141CVBS - 02 (19E2894-02) Water Sampled: 05/24/19 00:00 Received: 05/24/19 08:00												
Ethyl tert-butyl ether	ND	0.40	0.50		ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
Tert-amyl methyl ether	ND	0.30	0.50		ug/L	1	AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	U
<i>Surrogate: Bromofluorobenzene</i>			115 %				AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	
<i>Surrogate: Dibromofluoromethane</i>			103 %				AE94329	05/30/19 11:00	05/30/19 16:17	EPA 524.2	JV	
<i>Surrogate: Toluene-d8</i>			120 %				AE94329	05/30/19 11:00	05/30/19 16:17	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 2019032803

Reported:
 06/07/19 16:58

Volatile Organic Compounds by EPA Method 8260B

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

A9141CVBS - 01 (19E2894-01) Water **Sampled: 05/24/19 00:00** **Received: 05/24/19 08:00**

Acetone	ND	3.0	5.0	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Acetonitrile	ND	50	100	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Acrylonitrile	ND	0.40	5.0	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Allyl chloride	ND	0.40	10	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Benzene	ND	0.30	0.30	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Bromobenzene	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Bromochloromethane	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Bromodichloromethane	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Bromoform	ND	0.30	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Bromomethane	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
n-Butylbenzene	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
sec-Butylbenzene	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
tert-Butylbenzene	ND	0.30	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Carbon disulfide	ND	0.40	5.0	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Carbon tetrachloride	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Chlorobenzene	ND	0.30	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Chloroethane	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Chloroform	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Chloromethane	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Chloroprene	ND	0.40	1.0	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
2-Chlorotoluene	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
4-Chlorotoluene	ND	0.30	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Dibromochloromethane	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
1,2-Dibromo-3-chloropropane	ND	0.60	2.0	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
1,2-Dibromoethane (EDB)	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Dibromomethane	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
1,2-Dichlorobenzene	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
1,3-Dichlorobenzene	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
1,4-Dichlorobenzene	ND	0.10	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
trans-1,4-Dichloro-2-butene	ND	0.50	5.0	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Dichlorodifluoromethane	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
1,1-Dichloroethane	ND	0.30	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
1,2-Dichloroethane	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
1,1-Dichloroethene	ND	0.30	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
cis-1,2-Dichloroethene	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
trans-1,2-Dichloroethene	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	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 2019032803

Reported:
 06/07/19 16:58

Volatile Organic Compounds by EPA Method 8260B

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

A9141CVBS - 01 (19E2894-01) Water Sampled: 05/24/19 00:00 Received: 05/24/19 08:00

1,2-Dichloropropane	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
1,3-Dichloropropane	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
2,2-Dichloropropane	ND	0.50	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
1,1-Dichloropropene	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
cis-1,3-Dichloropropene	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
trans-1,3-Dichloropropene	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Diethyl ether	ND	0.20	1.0	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Di-isopropyl ether	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Ethanol	ND	20	50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Ethyl methacrylate	ND	0.70	10	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Ethylbenzene	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Ethyl tert-butyl ether	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Hexachlorobutadiene	ND	0.50	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Hexachloroethane	ND	0.40	1.0	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
2-Hexanone	ND	0.50	5.0	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Isobutanol	ND	40	100	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Isopropylbenzene	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
p-Isopropyltoluene	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Methacrylonitrile	ND	0.40	1.0	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Methylene chloride	ND	0.50	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Methyl ethyl ketone	ND	0.70	1.0	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Methyl iodide	ND	0.40	2.0	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Methyl isobutyl ketone	ND	0.60	1.0	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Methyl methacrylate	ND	0.40	1.0	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Methyl tert-butyl ether	ND	0.50	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Naphthalene	ND	0.50	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Propionitrile	ND	20	50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
n-Propylbenzene	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Styrene	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Tert-amyl methyl ether	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Tert-butyl alcohol	ND	6.0	10	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
1,1,1,2-Tetrachloroethane	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
1,1,2,2-Tetrachloroethane	ND	0.30	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Tetrachloroethene	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Tetrahydrofuran	ND	0.40	5.0	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Toluene	ND	0.30	0.30	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	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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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 2019032803

Reported:
 06/07/19 16:58

Volatile Organic Compounds by EPA Method 8260B

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

A9141CVBS - 01 (19E2894-01) Water **Sampled: 05/24/19 00:00** **Received: 05/24/19 08:00**

1,2,3-Trichlorobenzene	ND	0.50	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
1,2,4-Trichlorobenzene	ND	0.20	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
1,1,1-Trichloroethane	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
1,1,2-Trichloroethane	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Trichloroethene	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Trichlorofluoromethane	ND	0.20	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
1,2,3-Trichloropropane	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Trichlorotrifluoroethane	ND	0.20	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
1,2,4-Trimethylbenzene	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
1,3,5-Trimethylbenzene	ND	0.30	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Vinyl acetate	ND	0.80	1.0	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Vinyl chloride	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
m,p-Xylene	ND	0.50	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
o-Xylene	ND	0.40	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Xylenes (total)	ND	0.50	0.50	ug/L	1	AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	U
Surrogate: Bromofluorobenzene		111 %	70-130			AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	
Surrogate: Dibromofluoromethane		101 %	70-130			AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	JV	
Surrogate: Toluene-d8		108 %	70-130			AF93087	06/04/19 10:00	06/04/19 12:14	EPA 8260	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 2019032803

Reported:
 06/07/19 16:58

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 AE94329 - VOAs in Water GCMS

Blank (AE94329-BLK1)

Prepared: 05/29/19 Analyzed: 05/30/19

Acetone	ND	2.0	5.0	ug/L							U
Acrylonitrile	ND	0.40	5.0	ug/L							U
Benzene	ND	0.10	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	0.20	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
1,4-Dichlorobenzene	ND	0.20	0.50	ug/L							U
trans-1,4-Dichloro-2-butene	ND	0.90	5.0	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	0.10	0.50	ug/L							U
1,1-Dichloroethene	ND	0.30	0.30	ug/L							U
cis-1,2-Dichloroethene	ND	0.10	0.50	ug/L							U
trans-1,2-Dichloroethene	ND	0.10	0.50	ug/L							U
1,2-Dichloropropane	ND	0.20	0.50	ug/L							U
1,3-Dichloropropane	ND	0.10	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 2019032803	Reported: 06/07/19 16:58
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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 AE94329 - VOAs in Water GCMS

Blank (AE94329-BLK1)

Prepared: 05/29/19 Analyzed: 05/30/19

1,1-Dichloropropene	ND	0.20	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
Ethylbenzene	ND	0.20	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
Hexachlorobutadiene	ND	0.40	0.50	ug/L							U
Isopropylbenzene	ND	0.20	0.50	ug/L							U
p-Isopropyltoluene	ND	0.50	0.50	ug/L							U
Methyl ethyl ketone	ND	0.20	1.0	ug/L							U
Methyl iodide	ND	0.40	2.0	ug/L							U
Methyl isobutyl ketone	ND	0.30	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	0.20	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	0.10	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	0.10	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	0.20	0.50	ug/L							U
o-Xylene	ND	0.20	0.50	ug/L							U
Xylenes (total)	ND	0.20	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 2019032803	Reported: 06/07/19 16:58
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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 AE94329 - VOAs in Water GCMS

Blank (AE94329-BLK1)

Prepared: 05/29/19 Analyzed: 05/30/19

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	30.2			ug/L	25.0		121	70-130			
Surrogate: Dibromofluoromethane	26.2			ug/L	25.0		105	70-130			
Surrogate: Toluene-d8	29.8			ug/L	25.0		119	70-130			

LCS (AE94329-BS1)

Prepared: 05/29/19 Analyzed: 05/30/19

Acetone	21.1	2.0	5.0	ug/L	20.0		106	70-130			
Acrylonitrile	5.95	0.40	5.0	ug/L	5.00		119	70-130			
Benzene	5.43	0.10	0.30	ug/L	5.00		109	70-130			
Bromobenzene	5.65	0.20	0.50	ug/L	5.00		113	70-130			
Bromochloromethane	5.47	0.40	0.50	ug/L	5.00		109	70-130			
Bromodichloromethane	5.59	0.20	0.50	ug/L	5.00		112	70-130			
Bromoform	6.04	0.30	0.50	ug/L	5.00		121	70-130			
Bromomethane	5.41	0.40	0.50	ug/L	5.00		108	70-130			
n-Butylbenzene	5.35	0.50	0.50	ug/L	5.00		107	70-130			
sec-Butylbenzene	5.41	0.20	0.50	ug/L	5.00		108	70-130			
tert-Butylbenzene	5.42	0.50	0.50	ug/L	5.00		108	70-130			
Carbon disulfide	4.97	0.40	0.50	ug/L	5.00		99.4	70-130			
Carbon tetrachloride	4.32	0.30	0.50	ug/L	5.00		86.4	70-130			
Chlorobenzene	5.46	0.20	0.50	ug/L	5.00		109	70-130			
Chloroethane	5.42	0.30	0.50	ug/L	5.00		108	70-130			
Chloroform	5.32	0.30	0.50	ug/L	5.00		106	70-130			
Chloromethane	5.83	0.40	0.50	ug/L	5.00		117	70-130			
2-Chlorotoluene	5.51	0.20	0.50	ug/L	5.00		110	70-130			
4-Chlorotoluene	5.42	0.20	0.50	ug/L	5.00		108	70-130			
Dibromochloromethane	6.20	0.30	0.50	ug/L	5.00		124	70-130			
1,2-Dibromo-3-chloropropane	4.35	0.50	0.50	ug/L	5.00		87.0	70-130			
1,2-Dibromoethane (EDB)	5.57	0.20	0.50	ug/L	5.00		111	70-130			
Dibromomethane	5.23	0.20	0.50	ug/L	5.00		105	70-130			
1,2-Dichlorobenzene	5.41	0.20	0.50	ug/L	5.00		108	70-130			
1,3-Dichlorobenzene	5.51	0.20	0.50	ug/L	5.00		110	70-130			
1,4-Dichlorobenzene	5.37	0.20	0.50	ug/L	5.00		107	70-130			
trans-1,4-Dichloro-2-butene	5.24	0.90	5.0	ug/L	5.00		105	70-130			
Dichlorodifluoromethane	6.33	0.50	0.50	ug/L	5.00		127	70-130			
1,1-Dichloroethane	5.11	0.20	0.50	ug/L	5.00		102	70-130			
1,2-Dichloroethane	5.16	0.10	0.50	ug/L	5.00		103	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 2019032803

Reported:
 06/07/19 16:58

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 AE94329 - VOAs in Water GCMS

LCS (AE94329-BS1)

Prepared: 05/29/19 Analyzed: 05/30/19

1,1-Dichloroethene	5.12	0.30	0.30	ug/L	5.00		102	70-130			
cis-1,2-Dichloroethene	5.32	0.10	0.50	ug/L	5.00		106	70-130			
trans-1,2-Dichloroethene	4.89	0.10	0.50	ug/L	5.00		97.8	70-130			
1,2-Dichloropropane	5.05	0.20	0.50	ug/L	5.00		101	70-130			
1,3-Dichloropropane	5.51	0.10	0.50	ug/L	5.00		110	70-130			
2,2-Dichloropropane	4.63	0.30	0.50	ug/L	5.00		92.6	70-130			
1,1-Dichloropropene	5.51	0.20	0.50	ug/L	5.00		110	70-130			
cis-1,3-Dichloropropene	4.20	0.30	0.50	ug/L	5.00		84.0	70-130			
trans-1,3-Dichloropropene	4.40	0.30	0.50	ug/L	5.00		88.0	70-130			
2-Hexanone	5.27	0.50	5.0	ug/L	5.00		105	70-130			
Ethylbenzene	5.36	0.20	0.50	ug/L	5.00		107	70-130			
Hexachlorobutadiene	5.37	0.40	0.50	ug/L	5.00		107	70-130			
Isopropylbenzene	5.74	0.20	0.50	ug/L	5.00		115	70-130			
p-Isopropyltoluene	5.43	0.50	0.50	ug/L	5.00		109	70-130			
Methyl ethyl ketone	11.2	0.20	1.0	ug/L	10.0		112	70-130			
Methyl iodide	5.79	0.40	2.0	ug/L	5.00		116	70-130			
Methyl isobutyl ketone	11.0	0.30	1.0	ug/L	10.0		110	70-130			
Methylene chloride	5.73	0.40	0.50	ug/L	5.00		115	70-130			
Naphthalene	5.04	0.50	0.50	ug/L	5.00		101	70-130			
n-Propylbenzene	5.56	0.50	0.50	ug/L	5.00		111	70-130			
Styrene	5.63	0.20	0.50	ug/L	5.00		113	70-130			
1,1,1,2-Tetrachloroethane	4.58	0.40	0.50	ug/L	5.00		91.6	70-130			
1,1,2,2-Tetrachloroethane	5.42	0.20	0.50	ug/L	5.00		108	70-130			
Tetrachloroethene	5.52	0.20	0.50	ug/L	5.00		110	70-130			
Toluene	5.60	0.30	0.50	ug/L	5.00		112	70-130			
1,2,3-Trichlorobenzene	5.70	0.40	0.50	ug/L	5.00		114	70-130			
1,2,4-Trichlorobenzene	5.39	0.40	0.50	ug/L	5.00		108	70-130			
1,1,1-Trichloroethane	4.77	0.40	0.50	ug/L	5.00		95.4	70-130			
1,1,2-Trichloroethane	5.43	0.20	0.50	ug/L	5.00		109	70-130			
Trichloroethene	5.09	0.10	0.50	ug/L	5.00		102	70-130			
Trichlorofluoromethane	6.45	0.50	0.50	ug/L	5.00		129	70-130			
Trichlorotrifluoroethane	5.38	0.40	0.50	ug/L	5.00		108	70-130			
1,2,3-Trichloropropane	5.71	0.10	0.50	ug/L	5.00		114	70-130			
1,2,4-Trimethylbenzene	5.72	0.50	0.50	ug/L	5.00		114	70-130			
1,3,5-Trimethylbenzene	5.50	0.50	0.50	ug/L	5.00		110	70-130			
Vinyl chloride	5.67	0.50	0.50	ug/L	5.00		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 2019032803	Reported: 06/07/19 16:58
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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 AE94329 - VOAs in Water GCMS

LCS (AE94329-BS1)		Prepared: 05/29/19 Analyzed: 05/30/19									
m,p-Xylene	10.9	0.20	0.50	ug/L	10.0		109	70-130			
o-Xylene	5.47	0.20	0.50	ug/L	5.00		109	70-130			
Xylenes (total)	16.4	0.20	0.50	ug/L	15.0		109	70-130			
Methyl tert-butyl ether	6.15	0.50	3.0	ug/L	5.00		123	70-130			
Ethyl tert-butyl ether	5.31	0.40	0.50	ug/L	5.00		106	70-130			
Tert-amyl methyl ether	5.58	0.30	0.50	ug/L	5.00		112	70-130			
Surrogate: Bromofluorobenzene	30.3			ug/L	25.0		121	70-130			
Surrogate: Dibromofluoromethane	27.7			ug/L	25.0		111	70-130			
Surrogate: Toluene-d8	29.1			ug/L	25.0		117	70-130			

LCS Dup (AE94329-BS1)		Prepared: 05/29/19 Analyzed: 05/30/19									
Acetone	23.9	2.0	5.0	ug/L	20.0		120	70-130	12.6	30	
Acrylonitrile	5.72	0.40	5.0	ug/L	5.00		114	70-130	3.94	30	
Benzene	5.42	0.10	0.30	ug/L	5.00		108	70-130	0.184	30	
Bromobenzene	5.76	0.20	0.50	ug/L	5.00		115	70-130	1.93	30	
Bromochloromethane	5.63	0.40	0.50	ug/L	5.00		113	70-130	2.88	30	
Bromodichloromethane	5.98	0.20	0.50	ug/L	5.00		120	70-130	6.74	30	
Bromoform	6.02	0.30	0.50	ug/L	5.00		120	70-130	0.332	30	
Bromomethane	5.63	0.40	0.50	ug/L	5.00		113	70-130	3.99	30	
n-Butylbenzene	5.74	0.50	0.50	ug/L	5.00		115	70-130	7.03	30	
sec-Butylbenzene	5.65	0.20	0.50	ug/L	5.00		113	70-130	4.34	30	
tert-Butylbenzene	5.82	0.50	0.50	ug/L	5.00		116	70-130	7.12	30	
Carbon disulfide	4.99	0.40	0.50	ug/L	5.00		99.8	70-130	0.402	30	
Carbon tetrachloride	4.65	0.30	0.50	ug/L	5.00		93.0	70-130	7.36	30	
Chlorobenzene	5.62	0.20	0.50	ug/L	5.00		112	70-130	2.89	30	
Chloroethane	5.65	0.30	0.50	ug/L	5.00		113	70-130	4.16	30	
Chloroform	5.41	0.30	0.50	ug/L	5.00		108	70-130	1.68	30	
Chloromethane	6.00	0.40	0.50	ug/L	5.00		120	70-130	2.87	30	
2-Chlorotoluene	5.74	0.20	0.50	ug/L	5.00		115	70-130	4.09	30	
4-Chlorotoluene	5.74	0.20	0.50	ug/L	5.00		115	70-130	5.73	30	
Dibromochloromethane	6.41	0.30	0.50	ug/L	5.00		128	70-130	3.33	30	
1,2-Dibromo-3-chloropropane	4.47	0.50	0.50	ug/L	5.00		89.4	70-130	2.72	25	
1,2-Dibromoethane (EDB)	5.72	0.20	0.50	ug/L	5.00		114	70-130	2.66	25	
Dibromomethane	5.25	0.20	0.50	ug/L	5.00		105	70-130	0.382	30	
1,2-Dichlorobenzene	5.69	0.20	0.50	ug/L	5.00		114	70-130	5.05	30	
1,3-Dichlorobenzene	5.73	0.20	0.50	ug/L	5.00		115	70-130	3.91	30	
trans-1,4-Dichloro-2-butene	5.27	0.90	5.0	ug/L	5.00		105	70-130	0.571	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 2019032803	Reported: 06/07/19 16:58
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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 AE94329 - VOAs in Water GCMS

LCS Dup (AE94329-BSD1)

Prepared: 05/29/19 Analyzed: 05/30/19

1,4-Dichlorobenzene	5.52	0.20	0.50	ug/L	5.00	110	70-130	2.75	30	
Dichlorodifluoromethane	6.35	0.50	0.50	ug/L	5.00	127	70-130	0.315	30	
1,1-Dichloroethane	5.26	0.20	0.50	ug/L	5.00	105	70-130	2.89	30	
1,2-Dichloroethane	5.26	0.10	0.50	ug/L	5.00	105	70-130	1.92	30	
1,1-Dichloroethene	5.12	0.30	0.30	ug/L	5.00	102	70-130	0.00	30	
cis-1,2-Dichloroethene	5.52	0.10	0.50	ug/L	5.00	110	70-130	3.69	30	
trans-1,2-Dichloroethene	5.03	0.10	0.50	ug/L	5.00	101	70-130	2.82	30	
1,2-Dichloropropane	5.19	0.20	0.50	ug/L	5.00	104	70-130	2.73	30	
1,3-Dichloropropane	5.85	0.10	0.50	ug/L	5.00	117	70-130	5.99	30	
2,2-Dichloropropane	4.94	0.30	0.50	ug/L	5.00	98.8	70-130	6.48	30	
1,1-Dichloropropene	5.75	0.20	0.50	ug/L	5.00	115	70-130	4.26	30	
cis-1,3-Dichloropropene	4.33	0.30	0.50	ug/L	5.00	86.6	70-130	3.05	30	
trans-1,3-Dichloropropene	4.53	0.30	0.50	ug/L	5.00	90.6	70-130	2.91	30	
Ethylbenzene	5.62	0.20	0.50	ug/L	5.00	112	70-130	4.74	30	
2-Hexanone	5.33	0.50	5.0	ug/L	5.00	107	70-130	1.13	25	
Hexachlorobutadiene	5.86	0.40	0.50	ug/L	5.00	117	70-130	8.73	30	
Isopropylbenzene	5.96	0.20	0.50	ug/L	5.00	119	70-130	3.76	30	
p-Isopropyltoluene	5.73	0.50	0.50	ug/L	5.00	115	70-130	5.38	30	
Methyl ethyl ketone	11.2	0.20	1.0	ug/L	10.0	112	70-130	0.268	30	
Methyl iodide	5.74	0.40	2.0	ug/L	5.00	115	70-130	0.867	25	
Methyl isobutyl ketone	11.1	0.30	1.0	ug/L	10.0	111	70-130	0.452	30	
Methylene chloride	5.46	0.40	0.50	ug/L	5.00	109	70-130	4.83	30	
Naphthalene	5.22	0.50	0.50	ug/L	5.00	104	70-130	3.51	30	
n-Propylbenzene	5.81	0.50	0.50	ug/L	5.00	116	70-130	4.40	30	
Styrene	5.73	0.20	0.50	ug/L	5.00	115	70-130	1.76	30	
1,1,1,2-Tetrachloroethane	4.64	0.40	0.50	ug/L	5.00	92.8	70-130	1.30	30	
1,1,2,2-Tetrachloroethane	5.46	0.20	0.50	ug/L	5.00	109	70-130	0.735	30	
Tetrachloroethene	5.82	0.20	0.50	ug/L	5.00	116	70-130	5.29	30	
Toluene	5.98	0.30	0.50	ug/L	5.00	120	70-130	6.56	30	
1,2,3-Trichlorobenzene	6.03	0.40	0.50	ug/L	5.00	121	70-130	5.63	30	
1,2,4-Trichlorobenzene	5.74	0.40	0.50	ug/L	5.00	115	70-130	6.29	30	
1,1,1-Trichloroethane	4.95	0.40	0.50	ug/L	5.00	99.0	70-130	3.70	30	
1,1,2-Trichloroethane	5.60	0.20	0.50	ug/L	5.00	112	70-130	3.08	30	
Trichloroethene	5.36	0.10	0.50	ug/L	5.00	107	70-130	5.17	30	
Trichlorofluoromethane	6.47	0.50	0.50	ug/L	5.00	129	70-130	0.310	30	
Trichlorotrifluoroethane	5.69	0.40	0.50	ug/L	5.00	114	70-130	5.60	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 2019032803	Reported: 06/07/19 16:58
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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 AE94329 - VOAs in Water GCMS

LCS Dup (AE94329-BSD1)

Prepared: 05/29/19 Analyzed: 05/30/19

1,2,3-Trichloropropane	5.77	0.10	0.50	ug/L	5.00	115	70-130	1.05	25	
1,2,4-Trimethylbenzene	5.99	0.50	0.50	ug/L	5.00	120	70-130	4.61	30	
1,3,5-Trimethylbenzene	5.85	0.50	0.50	ug/L	5.00	117	70-130	6.17	30	
Vinyl chloride	5.89	0.50	0.50	ug/L	5.00	118	70-130	3.81	30	
m,p-Xylene	11.5	0.20	0.50	ug/L	10.0	115	70-130	5.17	30	
o-Xylene	5.75	0.20	0.50	ug/L	5.00	115	70-130	4.99	30	
Xylenes (total)	17.3	0.20	0.50	ug/L	15.0	115	70-130	5.11	30	
Methyl tert-butyl ether	6.09	0.50	3.0	ug/L	5.00	122	70-130	0.980	30	
Ethyl tert-butyl ether	5.86	0.40	0.50	ug/L	5.00	117	70-130	9.85	30	
Tert-amyl methyl ether	5.91	0.30	0.50	ug/L	5.00	118	70-130	5.74	30	
Surrogate: Bromofluorobenzene	30.4			ug/L	25.0	122	70-130			
Surrogate: Dibromofluoromethane	26.7			ug/L	25.0	107	70-130			
Surrogate: Toluene-d8	29.7			ug/L	25.0	119	70-130			

Matrix Spike (AE94329-MS1)

Source: 19E2826-01

Prepared: 05/29/19 Analyzed: 05/30/19

QM-05

Acetone	31.8	2.0	5.0	ug/L	20.0	ND	159	70-130		
Acrylonitrile	6.30	0.40	5.0	ug/L	5.00	ND	126	70-130		
Benzene	6.40	0.10	0.30	ug/L	5.00	ND	128	70-130		
Bromobenzene	6.34	0.20	0.50	ug/L	5.00	ND	127	70-130		
Bromochloromethane	6.17	0.40	0.50	ug/L	5.00	ND	123	70-130		
Bromodichloromethane	6.04	0.20	0.50	ug/L	5.00	ND	121	70-130		
Bromoform	6.14	0.30	0.50	ug/L	5.00	ND	123	70-130		
Bromomethane	6.73	0.40	0.50	ug/L	5.00	ND	135	70-130		
n-Butylbenzene	6.57	0.50	0.50	ug/L	5.00	ND	131	70-130		
sec-Butylbenzene	6.60	0.20	0.50	ug/L	5.00	ND	132	70-130		
tert-Butylbenzene	6.70	0.50	0.50	ug/L	5.00	ND	134	70-130		
Carbon disulfide	6.04	0.40	0.50	ug/L	5.00	ND	121	70-130		
Carbon tetrachloride	5.10	0.30	0.50	ug/L	5.00	ND	102	70-130		
Chlorobenzene	6.32	0.20	0.50	ug/L	5.00	ND	126	70-130		
Chloroethane	6.57	0.30	0.50	ug/L	5.00	ND	131	70-130		
Chloroform	6.16	0.30	0.50	ug/L	5.00	ND	123	70-130		
Chloromethane	6.84	0.40	0.50	ug/L	5.00	ND	137	70-130		
2-Chlorotoluene	6.51	0.20	0.50	ug/L	5.00	ND	130	70-130		
4-Chlorotoluene	6.51	0.20	0.50	ug/L	5.00	ND	130	70-130		
Dibromochloromethane	6.45	0.30	0.50	ug/L	5.00	ND	129	70-130		
1,2-Dibromo-3-chloropropane	4.17	0.50	0.50	ug/L	5.00	ND	83.4	70-130		
1,2-Dibromoethane (EDB)	5.84	0.20	0.50	ug/L	5.00	ND	117	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 2019032803

Reported:
 06/07/19 16:58

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 AE94329 - VOAs in Water GCMS

Matrix Spike (AE94329-MS1)	Source: 19E2826-01			Prepared: 05/29/19		Analyzed: 05/30/19		QM-05			
Dibromomethane	5.38	0.20	0.50	ug/L	5.00	ND	108	70-130			
1,2-Dichlorobenzene	6.11	0.20	0.50	ug/L	5.00	ND	122	70-130			
1,3-Dichlorobenzene	6.31	0.20	0.50	ug/L	5.00	ND	126	70-130			
1,4-Dichlorobenzene	6.01	0.20	0.50	ug/L	5.00	ND	120	70-130			
trans-1,4-Dichloro-2-butene	5.97	0.90	5.0	ug/L	5.00	ND	119	70-130			
Dichlorodifluoromethane	9.28	0.50	0.50	ug/L	5.00	ND	186	70-130			
1,1-Dichloroethane	6.09	0.20	0.50	ug/L	5.00	ND	122	70-130			
1,2-Dichloroethane	5.76	0.10	0.50	ug/L	5.00	ND	115	70-130			
1,1-Dichloroethene	6.16	0.30	0.30	ug/L	5.00	ND	123	70-130			
cis-1,2-Dichloroethene	6.27	0.10	0.50	ug/L	5.00	ND	125	70-130			
trans-1,2-Dichloroethene	5.94	0.10	0.50	ug/L	5.00	ND	119	70-130			
1,2-Dichloropropane	5.71	0.20	0.50	ug/L	5.00	ND	114	70-130			
1,3-Dichloropropane	6.14	0.10	0.50	ug/L	5.00	ND	123	70-130			
2,2-Dichloropropane	5.98	0.30	0.50	ug/L	5.00	ND	120	70-130			
1,1-Dichloropropene	6.72	0.20	0.50	ug/L	5.00	ND	134	70-130			
cis-1,3-Dichloropropene	4.59	0.30	0.50	ug/L	5.00	ND	91.8	70-130			
trans-1,3-Dichloropropene	4.58	0.30	0.50	ug/L	5.00	ND	91.6	70-130			
2-Hexanone	5.53	0.50	5.0	ug/L	5.00	ND	111	70-130			
Ethylbenzene	6.49	0.20	0.50	ug/L	5.00	ND	130	70-130			
Hexachlorobutadiene	6.42	0.40	0.50	ug/L	5.00	ND	128	70-130			
Isopropylbenzene	6.95	0.20	0.50	ug/L	5.00	ND	139	70-130			
p-Isopropyltoluene	6.56	0.50	0.50	ug/L	5.00	ND	131	70-130			
Methyl ethyl ketone	10.9	0.20	1.0	ug/L	10.0	ND	109	70-130			
Methyl iodide	6.69	0.40	2.0	ug/L	5.00	ND	134	70-130			
Methyl isobutyl ketone	12.1	0.30	1.0	ug/L	10.0	ND	121	70-130			
Methylene chloride	5.13	0.40	0.50	ug/L	5.00	ND	103	70-130			
Naphthalene	5.34	0.50	0.50	ug/L	5.00	ND	107	70-130			
n-Propylbenzene	6.73	0.50	0.50	ug/L	5.00	ND	135	70-130			
Styrene	6.44	0.20	0.50	ug/L	5.00	ND	129	70-130			
1,1,1,2-Tetrachloroethane	4.86	0.40	0.50	ug/L	5.00	ND	97.2	70-130			
1,1,2,2-Tetrachloroethane	5.72	0.20	0.50	ug/L	5.00	ND	114	70-130			
Tetrachloroethene	6.75	0.20	0.50	ug/L	5.00	ND	135	70-130			
Toluene	6.83	0.30	0.50	ug/L	5.00	ND	137	70-130			
1,2,3-Trichlorobenzene	6.08	0.40	0.50	ug/L	5.00	ND	122	70-130			
1,2,4-Trichlorobenzene	6.06	0.40	0.50	ug/L	5.00	ND	121	70-130			
1,1,1-Trichloroethane	5.68	0.40	0.50	ug/L	5.00	ND	114	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 2019032803	Reported: 06/07/19 16:58
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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 AE94329 - VOAs in Water GCMS

Matrix Spike (AE94329-MS1)	Source: 19E2826-01			Prepared: 05/29/19 Analyzed: 05/30/19				QM-05
1,1,2-Trichloroethane	5.81	0.20	0.50	ug/L	5.00	ND	116	70-130
Trichloroethene	6.15	0.10	0.50	ug/L	5.00	ND	123	70-130
Trichlorofluoromethane	8.32	0.50	0.50	ug/L	5.00	ND	166	70-130
Trichlorotrifluoroethane	7.00	0.40	0.50	ug/L	5.00	ND	140	70-130
1,2,3-Trichloropropane	6.12	0.10	0.50	ug/L	5.00	ND	122	70-130
1,2,4-Trimethylbenzene	6.81	0.50	0.50	ug/L	5.00	ND	136	70-130
1,3,5-Trimethylbenzene	6.63	0.50	0.50	ug/L	5.00	ND	133	70-130
Vinyl chloride	7.02	0.50	0.50	ug/L	5.00	ND	140	70-130
m,p-Xylene	13.2	0.20	0.50	ug/L	10.0	ND	132	70-130
o-Xylene	6.38	0.20	0.50	ug/L	5.00	ND	128	70-130
Xylenes (total)	19.6	0.20	0.50	ug/L	15.0	ND	131	70-130
Methyl tert-butyl ether	5.95	0.50	3.0	ug/L	5.00	ND	119	70-130
Ethyl tert-butyl ether	5.64	0.40	0.50	ug/L	5.00	ND	113	70-130
Tert-amyl methyl ether	5.70	0.30	0.50	ug/L	5.00	ND	114	70-130
Surrogate: Bromofluorobenzene	30.4			ug/L	25.0		121	70-130
Surrogate: Dibromofluoromethane	27.8			ug/L	25.0		111	70-130
Surrogate: Toluene-d8	30.0			ug/L	25.0		120	70-130

Matrix Spike (AE94329-MS2)	Source: 19E2826-02			Prepared: 05/29/19 Analyzed: 05/30/19				
Acetone	22.8	2.0	5.0	ug/L	20.0	ND	114	70-130
Acrylonitrile	5.63	0.40	5.0	ug/L	5.00	ND	113	70-130
Benzene	5.79	0.10	0.30	ug/L	5.00	ND	116	70-130
Bromobenzene	5.85	0.20	0.50	ug/L	5.00	ND	117	70-130
Bromochloromethane	5.64	0.40	0.50	ug/L	5.00	ND	113	70-130
Bromodichloromethane	5.66	0.20	0.50	ug/L	5.00	ND	113	70-130
Bromoform	5.63	0.30	0.50	ug/L	5.00	ND	113	70-130
Bromomethane	6.13	0.40	0.50	ug/L	5.00	ND	123	70-130
n-Butylbenzene	5.99	0.50	0.50	ug/L	5.00	ND	120	70-130
sec-Butylbenzene	6.02	0.20	0.50	ug/L	5.00	ND	120	70-130
tert-Butylbenzene	6.08	0.50	0.50	ug/L	5.00	ND	122	70-130
Carbon disulfide	5.45	0.40	0.50	ug/L	5.00	ND	109	70-130
Carbon tetrachloride	4.89	0.30	0.50	ug/L	5.00	ND	97.8	70-130
Chlorobenzene	5.74	0.20	0.50	ug/L	5.00	ND	115	70-130
Chloroethane	6.33	0.30	0.50	ug/L	5.00	ND	127	70-130
Chloroform	5.69	0.30	0.50	ug/L	5.00	ND	114	70-130
Chloromethane	6.44	0.40	0.50	ug/L	5.00	ND	129	70-130
2-Chlorotoluene	5.91	0.20	0.50	ug/L	5.00	ND	118	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 2019032803	Reported: 06/07/19 16:58
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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 AE94329 - VOAs in Water GCMS

Matrix Spike (AE94329-MS2)	Source: 19E2826-02			Prepared: 05/29/19 Analyzed: 05/30/19							
4-Chlorotoluene	5.88	0.20	0.50	ug/L	5.00	ND	118	70-130			
Dibromochloromethane	6.02	0.30	0.50	ug/L	5.00	ND	120	70-130			
1,2-Dibromo-3-chloropropane	3.87	0.50	0.50	ug/L	5.00	ND	77.4	70-130			
1,2-Dibromoethane (EDB)	5.46	0.20	0.50	ug/L	5.00	ND	109	70-130			
Dibromomethane	5.12	0.20	0.50	ug/L	5.00	ND	102	70-130			
1,2-Dichlorobenzene	5.54	0.20	0.50	ug/L	5.00	ND	111	70-130			
1,3-Dichlorobenzene	5.76	0.20	0.50	ug/L	5.00	ND	115	70-130			
1,4-Dichlorobenzene	5.50	0.20	0.50	ug/L	5.00	ND	110	70-130			
trans-1,4-Dichloro-2-butene	5.51	0.90	5.0	ug/L	5.00	ND	110	70-130			
Dichlorodifluoromethane	9.85	0.50	0.50	ug/L	5.00	ND	197	70-130			QM-05
1,1-Dichloroethane	5.57	0.20	0.50	ug/L	5.00	ND	111	70-130			
1,2-Dichloroethane	5.30	0.10	0.50	ug/L	5.00	ND	106	70-130			
1,1-Dichloroethene	5.45	0.30	0.30	ug/L	5.00	ND	109	70-130			
cis-1,2-Dichloroethene	5.80	0.10	0.50	ug/L	5.00	ND	116	70-130			
trans-1,2-Dichloroethene	5.45	0.10	0.50	ug/L	5.00	ND	109	70-130			
1,2-Dichloropropane	5.38	0.20	0.50	ug/L	5.00	ND	108	70-130			
1,3-Dichloropropane	5.56	0.10	0.50	ug/L	5.00	ND	111	70-130			
2,2-Dichloropropane	5.79	0.30	0.50	ug/L	5.00	ND	116	70-130			
1,1-Dichloropropene	6.05	0.20	0.50	ug/L	5.00	ND	121	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	4.24	0.30	0.50	ug/L	5.00	ND	84.8	70-130			
Ethylbenzene	5.88	0.20	0.50	ug/L	5.00	ND	118	70-130			
2-Hexanone	4.94	0.50	5.0	ug/L	5.00	ND	98.8	70-130			J
Hexachlorobutadiene	5.75	0.40	0.50	ug/L	5.00	ND	115	70-130			
Isopropylbenzene	6.31	0.20	0.50	ug/L	5.00	ND	126	70-130			
p-Isopropyltoluene	6.00	0.50	0.50	ug/L	5.00	ND	120	70-130			
Methyl ethyl ketone	11.5	0.20	1.0	ug/L	10.0	ND	115	70-130			
Methyl iodide	6.04	0.40	2.0	ug/L	5.00	ND	121	70-130			
Methyl isobutyl ketone	10.7	0.30	1.0	ug/L	10.0	ND	107	70-130			
Methylene chloride	4.53	0.40	0.50	ug/L	5.00	ND	90.6	70-130			
Naphthalene	4.96	0.50	0.50	ug/L	5.00	ND	99.2	70-130			
n-Propylbenzene	6.10	0.50	0.50	ug/L	5.00	ND	122	70-130			
Styrene	5.86	0.20	0.50	ug/L	5.00	ND	117	70-130			
1,1,1,2-Tetrachloroethane	4.59	0.40	0.50	ug/L	5.00	ND	91.8	70-130			
1,1,2,2-Tetrachloroethane	5.28	0.20	0.50	ug/L	5.00	ND	106	70-130			
Tetrachloroethene	6.04	0.20	0.50	ug/L	5.00	ND	121	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 2019032803	Reported: 06/07/19 16:58
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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 AE94329 - VOAs in Water GCMS

Matrix Spike (AE94329-MS2)	Source: 19E2826-02			Prepared: 05/29/19 Analyzed: 05/30/19							
Toluene	6.19	0.30	0.50	ug/L	5.00	ND	124	70-130			
1,2,3-Trichlorobenzene	5.90	0.40	0.50	ug/L	5.00	ND	118	70-130			
1,2,4-Trichlorobenzene	5.59	0.40	0.50	ug/L	5.00	ND	112	70-130			
1,1,1-Trichloroethane	5.19	0.40	0.50	ug/L	5.00	ND	104	70-130			
1,1,2-Trichloroethane	5.49	0.20	0.50	ug/L	5.00	ND	110	70-130			
Trichloroethene	5.72	0.10	0.50	ug/L	5.00	ND	114	70-130			
Trichlorofluoromethane	7.60	0.50	0.50	ug/L	5.00	ND	152	70-130			QM-05
Trichlorotrifluoroethane	6.29	0.40	0.50	ug/L	5.00	ND	126	70-130			
1,2,3-Trichloropropane	5.69	0.10	0.50	ug/L	5.00	ND	114	70-130			
1,2,4-Trimethylbenzene	6.22	0.50	0.50	ug/L	5.00	ND	124	70-130			
1,3,5-Trimethylbenzene	5.97	0.50	0.50	ug/L	5.00	ND	119	70-130			
Vinyl chloride	6.73	0.50	0.50	ug/L	5.00	ND	135	70-130			QM-05
m,p-Xylene	11.9	0.20	0.50	ug/L	10.0	ND	119	70-130			
o-Xylene	5.88	0.20	0.50	ug/L	5.00	ND	118	70-130			
Xylenes (total)	17.8	0.20	0.50	ug/L	15.0	ND	118	70-130			
Methyl tert-butyl ether	5.98	0.50	3.0	ug/L	5.00	ND	120	70-130			
Ethyl tert-butyl ether	5.71	0.40	0.50	ug/L	5.00	ND	114	70-130			
Tert-amyl methyl ether	5.40	0.30	0.50	ug/L	5.00	ND	108	70-130			
Surrogate: Bromofluorobenzene	30.4			ug/L	25.0		122	70-130			
Surrogate: Dibromofluoromethane	27.8			ug/L	25.0		111	70-130			
Surrogate: Toluene-d8	30.0			ug/L	25.0		120	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 2019032803	Reported: 06/07/19 16:58
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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 AF93087 - VOAs in Water GCMS

Blank (AF93087-BLK1)

Prepared & Analyzed: 06/03/19

Acetone	ND	3.0	5.0	ug/L							U
Acetonitrile	ND	50	100	ug/L							U
Acrylonitrile	ND	0.40	5.0	ug/L							U
Allyl chloride	ND	0.40	10	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	0.30	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 2019032803	Reported: 06/07/19 16:58
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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 AF93087 - VOAs in Water GCMS

Blank (AF93087-BLK1)

Prepared & Analyzed: 06/03/19

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	0.50	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	20	50	ug/L							U
Ethyl methacrylate	ND	0.70	10	ug/L							U
Ethylbenzene	ND	0.40	0.50	ug/L							U
Ethyl tert-butyl ether	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
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 isobutyl ketone	ND	0.60	1.0	ug/L							U
Methyl methacrylate	ND	0.40	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 2019032803	Reported: 06/07/19 16:58
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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 AF93087 - VOAs in Water GCMS

Blank (AF93087-BLK1)

Prepared & Analyzed: 06/03/19

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	0.20	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	27.1			ug/L	25.0		108	70-130			
Surrogate: Dibromofluoromethane	25.3			ug/L	25.0		101	70-130			
Surrogate: Toluene-d8	26.8			ug/L	25.0		107	70-130			

LCS (AF93087-BS1)

Prepared & Analyzed: 06/03/19

Acetone	78.1	3.0	5.0	ug/L	80.0		97.6	48-124			
Acetonitrile	2370	50	100	ug/L	2000		119	70-130			
Allyl chloride	17.4	0.40	10	ug/L	20.0		87.0	70-130			
Acrylonitrile	20.6	0.40	5.0	ug/L	20.0		103	70-130			
Benzene	17.1	0.30	0.30	ug/L	20.0		85.3	82-122			
Bromobenzene	16.6	0.40	0.50	ug/L	20.0		83.0	83-122			
Bromochloromethane	18.6	0.40	0.50	ug/L	20.0		92.8	83-124			
Bromodichloromethane	15.0	0.40	0.50	ug/L	20.0		75.0	86-135			QL-03
Bromoform	15.0	0.30	0.50	ug/L	20.0		75.1	76-144			QL-03
Bromomethane	17.1	0.40	0.50	ug/L	20.0		85.4	69-145			
n-Butylbenzene	15.1	0.40	0.50	ug/L	20.0		75.4	79-132			QL-03
sec-Butylbenzene	17.9	0.40	0.50	ug/L	20.0		89.6	86-132			
tert-Butylbenzene	15.9	0.30	0.50	ug/L	20.0		79.7	82-126			QL-03
Carbon disulfide	17.0	0.40	5.0	ug/L	20.0		85.0	70-130			
Carbon tetrachloride	14.8	0.40	0.50	ug/L	20.0		73.8	77-134			QL-03
Chlorobenzene	17.5	0.30	0.50	ug/L	20.0		87.6	84-119			
Chloroethane	18.9	0.40	0.50	ug/L	20.0		94.4	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 2019032803	Reported: 06/07/19 16:58
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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 AF93087 - VOAs in Water GCMS

LCS (AF93087-BS1)	Prepared & Analyzed: 06/03/19										
Chloroform	18.0	0.40	0.50	ug/L	20.0		89.8	81-122			
Chloromethane	20.1	0.40	0.50	ug/L	20.0		100	63-129			
Chloroprene	17.8	0.40	1.0	ug/L	20.0		89.2	70-130			
2-Chlorotoluene	15.9	0.40	0.50	ug/L	20.0		79.6	79-132			
4-Chlorotoluene	16.3	0.30	0.50	ug/L	20.0		81.3	80-122			
Dibromochloromethane	15.3	0.40	0.50	ug/L	20.0		76.4	83-135			QL-03
1,2-Dibromo-3-chloropropane	15.8	0.60	2.0	ug/L	20.0		78.9	73-128			
1,2-Dibromoethane (EDB)	16.3	0.40	0.50	ug/L	20.0		81.6	80-120			
Dibromomethane	17.5	0.40	0.50	ug/L	20.0		87.6	82-124			
1,2-Dichlorobenzene	17.9	0.40	0.50	ug/L	20.0		89.7	84-121			
1,3-Dichlorobenzene	17.6	0.40	0.50	ug/L	20.0		87.8	80-120			
1,4-Dichlorobenzene	17.1	0.10	0.50	ug/L	20.0		85.5	84-120			
trans-1,4-Dichloro-2-butene	18.6	0.50	5.0	ug/L	20.0		93.0	70-130			
Dichlorodifluoromethane	23.3	0.40	0.50	ug/L	20.0		117	52-142			
1,1-Dichloroethane	17.0	0.30	0.50	ug/L	20.0		85.2	81-126			
1,2-Dichloroethane	16.9	0.40	0.50	ug/L	20.0		84.4	77-117			
1,1-Dichloroethene	15.6	0.30	0.50	ug/L	20.0		77.8	71-151			
cis-1,2-Dichloroethene	18.0	0.40	0.50	ug/L	20.0		90.0	84-131			
trans-1,2-Dichloroethene	16.9	0.40	0.50	ug/L	20.0		84.5	79-128			
1,2-Dichloropropane	17.4	0.40	0.50	ug/L	20.0		86.8	82-125			
1,3-Dichloropropane	18.2	0.40	0.50	ug/L	20.0		91.0	83-120			
2,2-Dichloropropane	14.9	0.50	0.50	ug/L	20.0		74.5	80-125			QL-03
1,1-Dichloropropene	17.9	0.40	0.50	ug/L	20.0		89.4	85-130			
cis-1,3-Dichloropropene	14.9	0.40	0.50	ug/L	20.0		74.6	83-128			QL-03
trans-1,3-Dichloropropene	15.3	0.40	0.50	ug/L	20.0		76.6	67-129			
Diethyl ether	20.9	0.20	1.0	ug/L	20.0		104	70-130			
Di-isopropyl ether	17.2	0.40	0.50	ug/L	20.0		85.9	83-132			
Ethylbenzene	18.4	0.40	0.50	ug/L	20.0		91.8	84-124			
Ethanol	1040	20	50	ug/L	980		106	50-150			
Ethyl methacrylate	18.6	0.70	10	ug/L	20.0		93.0	70-130			
Ethyl tert-butyl ether	17.4	0.40	0.50	ug/L	20.0		86.9	74-127			
Hexachlorobutadiene	16.9	0.50	0.50	ug/L	20.0		84.4	75-135			
Hexachloroethane	15.2	0.40	1.0	ug/L	20.0		75.8	70-130			
2-Hexanone	18.0	0.50	5.0	ug/L	20.0		90.2	70-130			
Isopropylbenzene	16.3	0.40	0.50	ug/L	20.0		81.5	75-116			
Isobutanol	1830	40	100	ug/L	2000		91.7	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 2019032803	Reported: 06/07/19 16:58
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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 AF93087 - VOAs in Water GCMS

LCS (AF93087-BS1)		Prepared & Analyzed: 06/03/19									
p-Isopropyltoluene	15.9	0.40	0.50	ug/L	20.0		79.5	78-124			
Methacrylonitrile	19.5	0.40	1.0	ug/L	20.0		97.7	70-130			
Methylene chloride	15.6	0.50	0.50	ug/L	20.0		78.1	72-132			
Methyl ethyl ketone	37.5	0.70	1.0	ug/L	40.0		93.8	58-157			
Methyl iodide	18.5	0.40	2.0	ug/L	20.0		92.7	56-167			
Methyl isobutyl ketone	37.1	0.60	1.0	ug/L	40.0		92.7	70-130			
Methyl methacrylate	19.9	0.40	1.0	ug/L	20.0		99.4	70-130			
Methyl tert-butyl ether	19.2	0.50	0.50	ug/L	20.0		96.0	84-119			
Naphthalene	15.1	0.50	0.50	ug/L	20.0		75.3	84-134			QL-03
Propionitrile	996	20	50	ug/L	1000		99.6	70-130			
n-Propylbenzene	15.9	0.40	0.50	ug/L	20.0		79.4	75-127			
Styrene	16.4	0.40	0.50	ug/L	20.0		81.8	80-125			
Tert-amyl methyl ether	16.7	0.40	0.50	ug/L	20.0		83.4	74-120			
Tert-butyl alcohol	357	6.0	10	ug/L	400		89.2	66-147			
1,1,1,2-Tetrachloroethane	15.1	0.40	0.50	ug/L	20.0		75.5	80-132			QL-03
1,1,2,2-Tetrachloroethane	18.6	0.30	0.50	ug/L	20.0		93.2	84-115			
Tetrachloroethene	17.2	0.40	0.50	ug/L	20.0		86.2	56-156			
Tetrahydrofuran	22.7	0.40	5.0	ug/L	20.0		114	70-130			
Toluene	17.0	0.30	0.30	ug/L	20.0		84.8	76-137			
1,2,4-Trichlorobenzene	14.9	0.20	0.50	ug/L	20.0		74.6	84-126			QL-03
1,2,3-Trichlorobenzene	15.1	0.50	0.50	ug/L	20.0		75.3	85-133			QL-03
1,1,1-Trichloroethane	16.1	0.40	0.50	ug/L	20.0		80.6	70-130			
1,1,2-Trichloroethane	18.2	0.40	0.50	ug/L	20.0		90.8	83-122			
Trichloroethene	17.8	0.40	0.50	ug/L	20.0		88.9	84-123			
Trichlorofluoromethane	20.0	0.20	0.50	ug/L	20.0		99.8	74-130			
1,2,3-Trichloropropane	18.8	0.40	0.50	ug/L	20.0		94.2	78-122			
Trichlorotrifluoroethane	17.2	0.20	0.50	ug/L	20.0		85.8	82-125			
1,2,4-Trimethylbenzene	16.6	0.40	0.50	ug/L	20.0		83.1	85-127			QL-03
1,3,5-Trimethylbenzene	16.1	0.30	0.50	ug/L	20.0		80.7	80-125			
Vinyl acetate	43.5	0.80	1.0	ug/L	40.0		109	60-140			
Vinyl chloride	18.8	0.40	0.50	ug/L	20.0		94.2	70-130			
m,p-Xylene	33.2	0.50	0.50	ug/L	40.0		82.9	81-124			
o-Xylene	16.2	0.40	0.50	ug/L	20.0		81.0	80-126			
Xylenes (total)	49.4	0.50	0.50	ug/L	60.0		82.3	81-126			
Surrogate: Bromofluorobenzene	26.7			ug/L	25.0		107	70-130			
Surrogate: Dibromofluoromethane	25.4			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 2019032803

Reported:
 06/07/19 16:58

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 AF93087 - VOAs in Water GCMS

LCS (AF93087-BS1)

Prepared & Analyzed: 06/03/19

Surrogate: Toluene-d8	25.5			ug/L	25.0		102	70-130			
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LCS Dup (AF93087-BSD1)

Prepared & Analyzed: 06/03/19

Acetone	87.3	3.0	5.0	ug/L	80.0		109	48-124	11.2	25	
Acetonitrile	2430	50	100	ug/L	2000		121	70-130	2.23	25	
Acrylonitrile	24.6	0.40	5.0	ug/L	20.0		123	70-130	17.6	25	
Allyl chloride	17.7	0.40	10	ug/L	20.0		88.3	70-130	1.54	25	
Benzene	20.2	0.30	0.30	ug/L	20.0		101	82-122	16.8	25	
Bromobenzene	18.9	0.40	0.50	ug/L	20.0		94.7	83-122	13.2	25	
Bromochloromethane	21.4	0.40	0.50	ug/L	20.0		107	83-124	14.3	25	
Bromodichloromethane	16.4	0.40	0.50	ug/L	20.0		82.0	86-135	8.79	25	QL-03
Bromoform	17.2	0.30	0.50	ug/L	20.0		86.2	76-144	13.7	25	
Bromomethane	20.2	0.40	0.50	ug/L	20.0		101	69-145	16.5	25	
n-Butylbenzene	17.8	0.40	0.50	ug/L	20.0		89.0	79-132	16.5	25	
sec-Butylbenzene	20.6	0.40	0.50	ug/L	20.0		103	86-132	13.8	25	
tert-Butylbenzene	18.3	0.30	0.50	ug/L	20.0		91.5	82-126	13.8	25	
Carbon disulfide	20.0	0.40	5.0	ug/L	20.0		99.8	70-130	16.0	30	
Carbon tetrachloride	17.4	0.40	0.50	ug/L	20.0		86.8	77-134	16.2	25	
Chlorobenzene	19.8	0.30	0.50	ug/L	20.0		98.8	84-119	12.0	25	
Chloroethane	20.8	0.40	0.50	ug/L	20.0		104	68-133	9.68	25	
Chloroform	21.1	0.40	0.50	ug/L	20.0		106	81-122	16.1	25	
Chloroprene	20.9	0.40	1.0	ug/L	20.0		104	70-130	15.8	25	
Chloromethane	22.7	0.40	0.50	ug/L	20.0		113	63-129	12.3	25	
2-Chlorotoluene	18.1	0.40	0.50	ug/L	20.0		90.6	79-132	12.9	25	
4-Chlorotoluene	18.9	0.30	0.50	ug/L	20.0		94.5	80-122	15.0	25	
Dibromochloromethane	16.8	0.40	0.50	ug/L	20.0		83.9	83-135	9.42	25	
1,2-Dibromo-3-chloropropane	18.0	0.60	2.0	ug/L	20.0		90.2	73-128	13.3	25	
1,2-Dibromoethane (EDB)	18.0	0.40	0.50	ug/L	20.0		90.2	80-120	9.95	25	
Dibromomethane	19.4	0.40	0.50	ug/L	20.0		97.0	82-124	10.1	25	
1,2-Dichlorobenzene	20.2	0.40	0.50	ug/L	20.0		101	84-121	11.9	25	
1,3-Dichlorobenzene	20.0	0.40	0.50	ug/L	20.0		100	80-120	13.0	25	
1,4-Dichlorobenzene	20.3	0.10	0.50	ug/L	20.0		101	84-120	17.0	25	
trans-1,4-Dichloro-2-butene	20.7	0.50	5.0	ug/L	20.0		103	70-130	10.7	25	
Dichlorodifluoromethane	25.6	0.40	0.50	ug/L	20.0		128	52-142	9.20	25	
1,1-Dichloroethane	20.4	0.30	0.50	ug/L	20.0		102	81-126	17.8	25	
1,2-Dichloroethane	18.0	0.40	0.50	ug/L	20.0		90.0	77-117	6.31	25	
1,1-Dichloroethene	17.4	0.30	0.50	ug/L	20.0		87.1	71-151	11.2	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 2019032803	Reported: 06/07/19 16:58
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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 AF93087 - VOAs in Water GCMS

LCS Dup (AF93087-BSD1)

Prepared & Analyzed: 06/03/19

cis-1,2-Dichloroethene	19.5	0.40	0.50	ug/L	20.0		97.6	84-131	8.05	25	
trans-1,2-Dichloroethene	19.1	0.40	0.50	ug/L	20.0		95.6	79-128	12.3	25	
1,2-Dichloropropane	19.4	0.40	0.50	ug/L	20.0		97.0	82-125	11.2	25	
1,3-Dichloropropane	20.4	0.40	0.50	ug/L	20.0		102	83-120	11.1	25	
2,2-Dichloropropane	17.8	0.50	0.50	ug/L	20.0		89.0	80-125	17.7	25	
1,1-Dichloropropene	20.9	0.40	0.50	ug/L	20.0		104	85-130	15.4	25	
cis-1,3-Dichloropropene	17.0	0.40	0.50	ug/L	20.0		84.8	83-128	12.7	25	
trans-1,3-Dichloropropene	16.9	0.40	0.50	ug/L	20.0		84.6	67-129	9.86	25	
Diethyl ether	25.0	0.20	1.0	ug/L	20.0		125	70-130	18.1	25	
Di-isopropyl ether	20.6	0.40	0.50	ug/L	20.0		103	83-132	17.9	25	
Ethanol	1140	20	50	ug/L	980		116	50-150	9.04	25	
Ethyl methacrylate	21.3	0.70	10	ug/L	20.0		106	70-130	13.4	25	
Ethylbenzene	21.1	0.40	0.50	ug/L	20.0		105	84-124	13.7	25	
Ethyl tert-butyl ether	20.2	0.40	0.50	ug/L	20.0		101	74-127	15.3	25	
Hexachlorobutadiene	19.6	0.50	0.50	ug/L	20.0		98.2	75-135	15.1	25	
Hexachloroethane	17.9	0.40	1.0	ug/L	20.0		89.3	70-130	16.4	25	
2-Hexanone	20.2	0.50	5.0	ug/L	20.0		101	70-130	11.6	30	
Isopropylbenzene	19.5	0.40	0.50	ug/L	20.0		97.4	75-116	17.8	25	
Isobutanol	2020	40	100	ug/L	2000		101	70-130	9.50	25	
p-Isopropyltoluene	17.9	0.40	0.50	ug/L	20.0		89.3	78-124	11.6	25	
Methacrylonitrile	21.9	0.40	1.0	ug/L	20.0		109	70-130	11.3	25	
Methylene chloride	17.5	0.50	0.50	ug/L	20.0		87.4	72-132	11.2	25	
Methyl ethyl ketone	41.9	0.70	1.0	ug/L	40.0		105	58-157	11.1	25	
Methyl iodide	21.9	0.40	2.0	ug/L	20.0		110	56-167	16.8	30	
Methyl isobutyl ketone	42.2	0.60	1.0	ug/L	40.0		105	70-130	12.9	25	
Methyl methacrylate	22.5	0.40	1.0	ug/L	20.0		112	70-130	12.2	25	
Naphthalene	17.7	0.50	0.50	ug/L	20.0		88.3	84-134	15.9	25	
Propionitrile	1180	20	50	ug/L	1000		118	70-130	17.1	25	
Methyl tert-butyl ether	22.1	0.50	0.50	ug/L	20.0		111	84-119	14.2	25	
n-Propylbenzene	18.2	0.40	0.50	ug/L	20.0		90.8	75-127	13.3	25	
Styrene	19.2	0.40	0.50	ug/L	20.0		96.1	80-125	16.1	25	
Tert-amyl methyl ether	19.2	0.40	0.50	ug/L	20.0		95.9	74-120	13.9	25	
Tert-butyl alcohol	419	6.0	10	ug/L	400		105	66-147	16.0	25	
1,1,1,2-Tetrachloroethane	17.5	0.40	0.50	ug/L	20.0		87.4	80-132	14.6	25	
1,1,2,2-Tetrachloroethane	20.7	0.30	0.50	ug/L	20.0		103	84-115	10.4	25	
Tetrachloroethene	19.7	0.40	0.50	ug/L	20.0		98.3	56-156	13.1	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 2019032803	Reported: 06/07/19 16:58
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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 AF93087 - VOAs in Water GCMS

LCS Dup (AF93087-BSD1)

Prepared & Analyzed: 06/03/19

Tetrahydrofuran	22.0	0.40	5.0	ug/L	20.0	110	70-130	3.26	25	
Toluene	18.9	0.30	0.30	ug/L	20.0	94.6	76-137	10.9	25	
1,2,4-Trichlorobenzene	17.3	0.20	0.50	ug/L	20.0	86.4	84-126	14.6	25	
1,2,3-Trichlorobenzene	17.9	0.50	0.50	ug/L	20.0	89.6	85-133	17.3	25	
1,1,1-Trichloroethane	17.9	0.40	0.50	ug/L	20.0	89.4	70-130	10.5	25	
1,1,2-Trichloroethane	20.9	0.40	0.50	ug/L	20.0	104	83-122	13.8	25	
Trichloroethene	20.1	0.40	0.50	ug/L	20.0	100	84-123	12.2	25	
Trichlorofluoromethane	23.0	0.20	0.50	ug/L	20.0	115	74-130	14.3	25	
1,2,3-Trichloropropane	20.9	0.40	0.50	ug/L	20.0	105	78-122	10.5	25	
Trichlorotrifluoroethane	19.4	0.20	0.50	ug/L	20.0	96.9	82-125	12.1	25	
1,2,4-Trimethylbenzene	18.9	0.40	0.50	ug/L	20.0	94.4	85-127	12.8	25	
1,3,5-Trimethylbenzene	18.4	0.30	0.50	ug/L	20.0	91.8	80-125	12.9	25	
Vinyl acetate	50.6	0.80	1.0	ug/L	40.0	127	60-140	15.1	25	
Vinyl chloride	21.8	0.40	0.50	ug/L	20.0	109	70-130	14.7	25	
m,p-Xylene	38.8	0.50	0.50	ug/L	40.0	97.0	81-124	15.6	25	
o-Xylene	19.4	0.40	0.50	ug/L	20.0	97.0	80-126	17.9	25	
Xylenes (total)	58.2	0.50	0.50	ug/L	60.0	97.0	81-126	16.4	25	
Surrogate: Bromofluorobenzene	26.9			ug/L	25.0	108	70-130			
Surrogate: Dibromofluoromethane	26.4			ug/L	25.0	106	70-130			
Surrogate: Toluene-d8	25.8			ug/L	25.0	103	70-130			

Matrix Spike (AF93087-MS1)

Source: 19F0171-01

Prepared & Analyzed: 06/04/19

Acetone	86.5	3.0	5.0	ug/L	80.0	18.9	84.4	32-164		
Acetonitrile	1530	50	100	ug/L	2000	ND	76.7	70-130		
Acrylonitrile	20.9	0.40	5.0	ug/L	20.0	ND	104	70-130		
Allyl chloride	20.9	0.40	10	ug/L	20.0	ND	104	70-130		
Benzene	19.3	0.30	0.30	ug/L	20.0	ND	96.6	58-139		
Bromobenzene	17.8	0.40	0.50	ug/L	20.0	ND	88.8	63-143		
Bromochloromethane	19.4	0.40	0.50	ug/L	20.0	ND	97.0	60-141		
Bromodichloromethane	16.6	0.40	0.50	ug/L	20.0	ND	82.8	62-140		
Bromoform	16.2	0.30	0.50	ug/L	20.0	ND	81.2	47-165		
Bromomethane	19.0	0.40	0.50	ug/L	20.0	ND	95.0	30-163		
n-Butylbenzene	16.5	0.40	0.50	ug/L	20.0	ND	82.7	57-147		
sec-Butylbenzene	19.3	0.40	0.50	ug/L	20.0	ND	96.6	64-155		
tert-Butylbenzene	17.5	0.30	0.50	ug/L	20.0	ND	87.6	57-150		
Carbon disulfide	20.7	0.40	5.0	ug/L	20.0	ND	104	70-130		
Carbon tetrachloride	17.6	0.40	0.50	ug/L	20.0	ND	88.2	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 2019032803	Reported: 06/07/19 16:58
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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 AF93087 - VOAs in Water GCMS

Matrix Spike (AF93087-MS1)	Source: 19F0171-01			Prepared & Analyzed: 06/04/19							
Chlorobenzene	19.8	0.30	0.50	ug/L	20.0	ND	98.8	58-137			
Chloroethane	20.2	0.40	0.50	ug/L	20.0	ND	101	59-141			
Chloroform	19.7	0.40	0.50	ug/L	20.0	ND	98.5	36-151			
Chloroprene	21.5	0.40	1.0	ug/L	20.0	ND	108	70-130			
Chloromethane	24.5	0.40	0.50	ug/L	20.0	ND	122	69-149			
2-Chlorotoluene	17.6	0.40	0.50	ug/L	20.0	ND	87.8	54-150			
4-Chlorotoluene	18.0	0.30	0.50	ug/L	20.0	ND	90.1	59-140			
Dibromochloromethane	17.2	0.40	0.50	ug/L	20.0	ND	86.2	54-157			
1,2-Dibromo-3-chloropropane	16.7	0.60	2.0	ug/L	20.0	ND	83.6	54-137			
1,2-Dibromoethane (EDB)	17.6	0.40	0.50	ug/L	20.0	ND	88.2	40-147			
Dibromomethane	18.9	0.40	0.50	ug/L	20.0	ND	94.6	59-139			
1,2-Dichlorobenzene	19.3	0.40	0.50	ug/L	20.0	ND	96.7	39-145			
1,3-Dichlorobenzene	19.0	0.40	0.50	ug/L	20.0	ND	94.8	54-137			
1,4-Dichlorobenzene	18.7	0.10	0.50	ug/L	20.0	ND	93.4	41-142			
trans-1,4-Dichloro-2-butene	19.8	0.50	5.0	ug/L	20.0	ND	99.0	70-130			
Dichlorodifluoromethane	28.4	0.40	0.50	ug/L	20.0	ND	142	39-162			
1,1-Dichloroethane	19.3	0.30	0.50	ug/L	20.0	ND	96.7	39-146			
1,2-Dichloroethane	18.3	0.40	0.50	ug/L	20.0	ND	91.7	58-133			
1,1-Dichloroethene	19.5	0.30	0.50	ug/L	20.0	ND	97.6	70-154			
cis-1,2-Dichloroethene	19.8	0.40	0.50	ug/L	20.0	ND	98.8	66-141			
trans-1,2-Dichloroethene	18.9	0.40	0.50	ug/L	20.0	ND	94.5	59-151			
1,2-Dichloropropane	19.8	0.40	0.50	ug/L	20.0	ND	98.8	41-142			
1,3-Dichloropropane	20.0	0.40	0.50	ug/L	20.0	ND	99.8	62-139			
2,2-Dichloropropane	16.6	0.50	0.50	ug/L	20.0	ND	83.0	40-167			
1,1-Dichloropropene	21.8	0.40	0.50	ug/L	20.0	ND	109	58-148			
cis-1,3-Dichloropropene	17.4	0.40	0.50	ug/L	20.0	ND	87.0	50-140			
trans-1,3-Dichloropropene	17.5	0.40	0.50	ug/L	20.0	ND	87.4	40-144			
Diethyl ether	20.2	0.20	1.0	ug/L	20.0	ND	101	70-130			
Di-isopropyl ether	18.6	0.40	0.50	ug/L	20.0	ND	92.8	49-143			
Ethyl methacrylate	19.9	0.70	10	ug/L	20.0	ND	99.3	70-130			
Ethanol	730	20	50	ug/L	980	ND	74.5	50-150			
Ethylbenzene	20.7	0.40	0.50	ug/L	20.0	ND	103	59-147			
Hexachlorobutadiene	17.6	0.50	0.50	ug/L	20.0	ND	87.8	56-149			
Hexachloroethane	17.2	0.40	1.0	ug/L	20.0	ND	86.1	70-130			
Ethyl tert-butyl ether	17.7	0.40	0.50	ug/L	20.0	ND	88.7	44-143			
2-Hexanone	18.6	0.50	5.0	ug/L	20.0	ND	92.8	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 2019032803	Reported: 06/07/19 16:58
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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 AF93087 - VOAs in Water GCMS

Matrix Spike (AF93087-MS1)	Source: 19F0171-01			Prepared & Analyzed: 06/04/19							
Isobutanol	1740	40	100	ug/L	2000	ND	87.1	70-130			
Isopropylbenzene	18.0	0.40	0.50	ug/L	20.0	ND	90.2	56-134			
p-Isopropyltoluene	17.1	0.40	0.50	ug/L	20.0	ND	85.7	54-148			
Methylene chloride	15.6	0.50	0.50	ug/L	20.0	ND	78.1	43-143			
Methacrylonitrile	20.5	0.40	1.0	ug/L	20.0	ND	103	70-130			
Methyl ethyl ketone	37.7	0.70	1.0	ug/L	40.0	ND	94.3	62-126			
Methyl iodide	21.8	0.40	2.0	ug/L	20.0	ND	109	70-130			
Methyl methacrylate	21.4	0.40	1.0	ug/L	20.0	ND	107	70-130			
Methyl isobutyl ketone	37.4	0.60	1.0	ug/L	40.0	ND	93.5	66-127			
Methyl tert-butyl ether	18.4	0.50	0.50	ug/L	20.0	ND	92.2	55-144			
Propionitrile	977	20	50	ug/L	1000	ND	97.7	70-130			
Naphthalene	16.1	0.50	0.50	ug/L	20.0	ND	80.6	52-157			
n-Propylbenzene	17.8	0.40	0.50	ug/L	20.0	ND	88.8	55-145			
Styrene	18.0	0.40	0.50	ug/L	20.0	ND	90.0	51-157			
Tert-amyl methyl ether	16.8	0.40	0.50	ug/L	20.0	ND	84.2	41-136			
Tert-butyl alcohol	378	6.0	10	ug/L	400	ND	94.4	38-175			
1,1,1,2-Tetrachloroethane	17.0	0.40	0.50	ug/L	20.0	ND	84.8	58-146			
1,1,2,2-Tetrachloroethane	19.1	0.30	0.50	ug/L	20.0	ND	95.4	73-127			
Tetrachloroethene	20.6	0.40	0.50	ug/L	20.0	ND	103	49-148			
Tetrahydrofuran	19.9	0.40	5.0	ug/L	20.0	ND	99.3	70-130			
Toluene	19.7	0.30	0.30	ug/L	20.0	ND	98.3	59-147			
1,2,4-Trichlorobenzene	15.6	0.20	0.50	ug/L	20.0	ND	78.0	50-150			
1,2,3-Trichlorobenzene	15.9	0.50	0.50	ug/L	20.0	ND	79.4	50-161			
1,1,1-Trichloroethane	17.1	0.40	0.50	ug/L	20.0	ND	85.5	38-164			
1,1,2-Trichloroethane	19.7	0.40	0.50	ug/L	20.0	ND	98.3	46-136			
Trichloroethene	20.8	0.40	0.50	ug/L	20.0	ND	104	58-140			
Trichlorofluoromethane	24.6	0.20	0.50	ug/L	20.0	ND	123	56-144			
1,2,3-Trichloropropane	18.8	0.40	0.50	ug/L	20.0	ND	94.0	61-139			
Trichlorotrifluoroethane	20.0	0.20	0.50	ug/L	20.0	ND	99.8	59-139			
1,2,4-Trimethylbenzene	17.9	0.40	0.50	ug/L	20.0	ND	89.7	58-152			
1,3,5-Trimethylbenzene	17.6	0.30	0.50	ug/L	20.0	ND	87.8	58-148			
Vinyl acetate	46.2	0.80	1.0	ug/L	40.0	ND	116	70-130			
Vinyl chloride	22.7	0.40	0.50	ug/L	20.0	ND	114	53-160			
m,p-Xylene	37.8	0.50	0.50	ug/L	40.0	ND	94.4	53-147			
o-Xylene	17.7	0.40	0.50	ug/L	20.0	ND	88.7	55-148			
Xylenes (total)	55.5	0.50	0.50	ug/L	60.0	ND	92.5	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 2019032803

Reported:
 06/07/19 16:58

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 AF93087 - VOAs in Water GCMS

Matrix Spike (AF93087-MS1)

Source: 19F0171-01

Prepared & Analyzed: 06/04/19

Surrogate: Bromofluorobenzene	26.6			ug/L	25.0		106	70-130			
Surrogate: Dibromofluoromethane	24.6			ug/L	25.0		98.2	70-130			
Surrogate: Toluene-d8	25.7			ug/L	25.0		103	70-130			



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Sample Traps, LLC
262 Rickenbacker Circle
Livermore CA, 94551

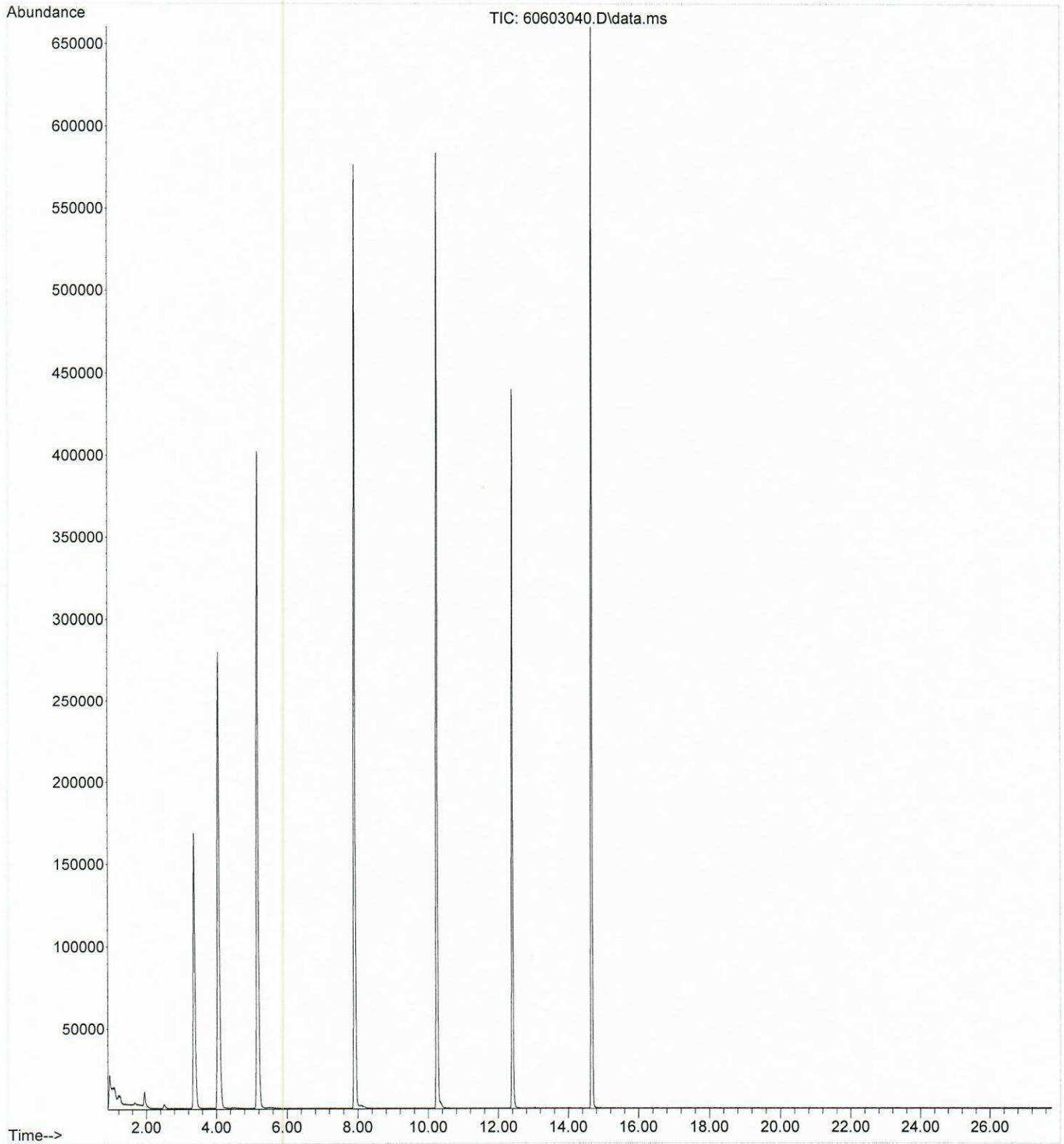
Project Manager: Quality Control Manager
Project: QC- 40ml Amber VOA- HCl
Project Number: Silicone Batch Number 2019032803

Reported:
06/07/19 16:58

Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- QL-03 Although the LCS/LCSD recovery for this analyte is outside of in-house developed control limits, it is within the EPA recommended range of 70-130%.
- 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:\MassHunter\GCMS\1\data\060319\60603040.D
Operator : JV
Acquired : 04 Jun 2019 12:14 pm using AcqMethod MS6INS.M
Instrument : GCMS6
Sample Name: 19E2894-01
Misc Info :
Vial Number: 40



File :D:\MassHunter\GCMS\1\data\052919\60529044.D
Operator : JV
Acquired : 30 May 2019 04:17 pm using AcqMethod MS6INS.M
Instrument : GCMS6
Sample Name: 19E2894-02
Misc Info :
Vial Number: 44

