



Alpha Analytical Laboratories Inc.

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Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Bay Area: 262 Rickenbacker Circle, Livermore, CA 94551 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

North Bay: 110 Liberty Street, Petaluma, CA 94952 • Phone: (707) 769-3128 • Fax: (707) 769-8093

ELAP Certificates 1551. 2728. 2922. and 2303

28 December 2018

Sample Traps, LLC

Attn: Quality Control Manager

262 Rickenbacker Circle

Livermore, CA 94551

RE: QC- 40ml Amber VOA- HCl

Work Order: 18L1887

Enclosed are the results of analyses for samples received by the laboratory on 12/17/18 07:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Chelsea L. Sandelin
Project Manager



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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 2018090103

Reported:
12/28/18 09:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
A8337CVBS - 01	18L1887-01	Water	12/17/18 00:00	12/17/18 07:30
A8337CVBS - 02	18L1887-02	Water	12/17/18 00:00	12/17/18 07:30



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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 2018090103

Reported:
12/28/18 09:57

Volatile Organic Compounds by EPA Method 524.2

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
A8337CVBS - 02 (18L1887-02) Water Sampled: 12/17/18 00:00 Received: 12/17/18 07:30												
Acetone	ND	2.0	5.0		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Acrylonitrile	ND	0.40	5.0		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Benzene	ND	0.30	0.30		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Bromobenzene	ND	0.20	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Bromochloromethane	ND	0.40	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Bromodichloromethane	ND	0.20	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Bromoform	ND	0.30	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Bromomethane	ND	0.40	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
n-Butylbenzene	ND	0.50	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
sec-Butylbenzene	ND	0.50	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
tert-Butylbenzene	ND	0.50	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Carbon disulfide	ND	0.40	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Carbon tetrachloride	ND	0.30	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Chlorobenzene	ND	0.20	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Chloroethane	ND	0.30	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Chloroform	ND	0.30	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Chloromethane	ND	0.40	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
2-Chlorotoluene	ND	0.20	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
4-Chlorotoluene	ND	0.20	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Dibromochloromethane	ND	0.30	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
1,2-Dibromo-3-chloropropane	ND	0.50	1.0		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
1,2-Dibromoethane (EDB)	ND	0.20	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Dibromomethane	ND	0.20	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
1,2-Dichlorobenzene	ND	0.20	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
1,3-Dichlorobenzene	ND	0.20	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
1,4-Dichlorobenzene	ND	0.20	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
trans-1,4-Dichloro-2-butene	ND	0.90	5.0		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Dichlorodifluoromethane	ND	0.50	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
1,1-Dichloroethane	ND	0.20	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
1,2-Dichloroethane	ND	0.50	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
1,1-Dichloroethene	ND	0.30	0.30		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
cis-1,2-Dichloroethene	ND	0.40	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
trans-1,2-Dichloroethene	ND	0.40	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
1,2-Dichloropropane	ND	0.20	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	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 2018090103

Reported:
12/28/18 09:57

Volatile Organic Compounds by EPA Method 524.2

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
A8337CVBS - 02 (18L1887-02) Water Sampled: 12/17/18 00:00 Received: 12/17/18 07:30												
1,3-Dichloropropane	ND	0.50	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
2,2-Dichloropropane	ND	0.30	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
1,1-Dichloropropene	ND	0.50	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
cis-1,3-Dichloropropene	ND	0.30	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
trans-1,3-Dichloropropene	ND	0.30	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
1,3-Dichloropropene (total)	ND	0.30	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
2-Hexanone	ND	0.50	5.0		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Ethylbenzene	ND	0.50	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Hexachlorobutadiene	ND	0.40	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Isopropylbenzene	ND	0.50	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
p-Isopropyltoluene	ND	0.50	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Methyl ethyl ketone	ND	0.60	1.0		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Methyl iodide	ND	0.40	2.0		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Methyl isobutyl ketone	ND	0.80	1.0		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Methylene chloride	ND	0.40	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Naphthalene	ND	0.50	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
n-Propylbenzene	ND	0.50	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Styrene	ND	0.20	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
1,1,1,2-Tetrachloroethane	ND	0.40	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
1,1,2,2-Tetrachloroethane	ND	0.20	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Tetrachloroethene	ND	0.50	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Toluene	ND	0.30	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
1,2,3-Trichlorobenzene	ND	0.40	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
1,2,4-Trichlorobenzene	ND	0.40	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
1,1,1-Trichloroethane	ND	0.40	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
1,1,2-Trichloroethane	ND	0.20	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Trichloroethene	ND	0.50	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Trichlorofluoromethane	ND	0.50	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Trichlorotrifluoroethane	ND	0.40	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
1,2,3-Trichloropropane	ND	0.50	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
1,2,4-Trimethylbenzene	ND	0.50	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
1,3,5-Trimethylbenzene	ND	0.50	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Vinyl chloride	ND	0.50	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
m,p-Xylene	ND	0.50	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	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 2018090103

Reported:
12/28/18 09:57

Volatile Organic Compounds by EPA Method 524.2

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
A8337CVBS - 02 (18L1887-02) Water Sampled: 12/17/18 00:00 Received: 12/17/18 07:30												
o-Xylene	ND	0.50	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Xylenes (total)	ND	0.50	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Trihalomethanes (total)	ND	0.30	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Methyl tert-butyl ether	ND	0.50	3.0		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Ethyl tert-butyl ether	ND	0.40	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Tert-amyl methyl ether	ND	0.30	0.50		ug/L	1	AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	U
Surrogate: Bromofluorobenzene		100 %	70-130				AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	
Surrogate: Dibromofluoromethane		91.4 %	70-130				AL84158	12/20/18 10:00	12/20/18 13:56	EPA 524.2	JV	
Surrogate: Toluene-d8		109 %	70-130				AL84158	12/20/18 10:00	12/20/18 13:56	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 2018090103

Reported:
12/28/18 09:57

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
A8337CVBS - 01 (18L1887-01) Water Sampled: 12/17/18 00:00 Received: 12/17/18 07:30												
Acetone	ND	3.0	5.0		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Acetonitrile	ND	50	100		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Acrylonitrile	ND	0.40	5.0		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Allyl chloride	ND	0.40	10		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Benzene	ND	0.30	0.30		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Bromobenzene	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Bromochloromethane	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Bromodichloromethane	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Bromoform	ND	0.30	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Bromomethane	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
n-Butylbenzene	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
sec-Butylbenzene	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
tert-Butylbenzene	ND	0.30	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Carbon disulfide	ND	0.40	5.0		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Carbon tetrachloride	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Chlorobenzene	ND	0.30	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Chloroethane	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Chloroform	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Chloromethane	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Chloroprene	ND	0.40	1.0		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
2-Chlorotoluene	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
4-Chlorotoluene	ND	0.30	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Dibromochloromethane	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
1,2-Dibromo-3-chloropropane	ND	0.60	2.0		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
1,2-Dibromoethane (EDB)	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Dibromomethane	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
1,2-Dichlorobenzene	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
1,3-Dichlorobenzene	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
1,4-Dichlorobenzene	ND	0.10	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
trans-1,4-Dichloro-2-butene	ND	0.50	5.0		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Dichlorodifluoromethane	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
1,1-Dichloroethane	ND	0.10	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
1,2-Dichloroethane	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
1,1-Dichloroethene	ND	0.30	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U

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North Bay: 110 Liberty Street, Petaluma, CA 94952 • Phone: (707) 769-3128 • Fax: (707) 769-8093

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 2018090103

Reported:
12/28/18 09:57

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
A8337CVBS - 01 (18L1887-01) Water Sampled: 12/17/18 00:00 Received: 12/17/18 07:30												
cis-1,2-Dichloroethene	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
trans-1,2-Dichloroethene	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
1,2-Dichloropropane	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
1,3-Dichloropropane	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
2,2-Dichloropropane	ND	0.20	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
1,1-Dichloropropene	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
cis-1,3-Dichloropropene	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
trans-1,3-Dichloropropene	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Diethyl ether	ND	0.20	1.0		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Di-isopropyl ether	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Ethanol	ND	50	50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Ethyl methacrylate	ND	0.70	10		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Ethylbenzene	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Ethyl tert-butyl ether	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Hexachlorobutadiene	ND	0.50	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Hexachloroethane	ND	0.40	1.0		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
2-Hexanone	ND	0.50	5.0		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Isobutanol	ND	40	100		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Isopropylbenzene	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
p-Isopropyltoluene	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Methacrylonitrile	ND	0.40	1.0		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Methylene chloride	ND	0.50	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Methyl ethyl ketone	ND	0.70	1.0		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Methyl iodide	ND	0.40	2.0		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Methyl isobutyl ketone	ND	0.60	1.0		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Methyl methacrylate	ND	0.40	1.0		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Methyl tert-butyl ether	ND	0.50	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Naphthalene	ND	0.50	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Propionitrile	ND	20	50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
n-Propylbenzene	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Styrene	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Tert-amyl methyl ether	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Tert-butyl alcohol	ND	6.0	10		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
1,1,1,2-Tetrachloroethane	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U

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North Bay: 110 Liberty Street, Petaluma, CA 94952 • Phone: (707) 769-3128 • Fax: (707) 769-8093

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 2018090103

Reported:
12/28/18 09:57

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
A8337CVBS - 01 (18L1887-01) Water Sampled: 12/17/18 00:00 Received: 12/17/18 07:30												
1,1,2,2-Tetrachloroethane	ND	0.30	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Tetrachloroethene	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Tetrahydrofuran	ND	0.40	5.0		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Toluene	ND	0.30	0.30		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
1,2,3-Trichlorobenzene	ND	0.50	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
1,2,4-Trichlorobenzene	ND	0.20	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
1,1,1-Trichloroethane	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
1,1,2-Trichloroethane	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Trichloroethene	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Trichlorofluoromethane	ND	0.20	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
1,2,3-Trichloropropane	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Trichlorotrifluoroethane	ND	0.50	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
1,2,4-Trimethylbenzene	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
1,3,5-Trimethylbenzene	ND	0.30	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Vinyl acetate	ND	0.80	1.0		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Vinyl chloride	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
m,p-Xylene	ND	0.50	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
o-Xylene	ND	0.40	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Xylenes (total)	ND	0.50	0.50		ug/L	1	AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	U
Surrogate: Bromofluorobenzene		105 %	70-130				AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	
Surrogate: Dibromofluoromethane		95.6 %	70-130				AL83983	12/18/18 10:00	12/18/18 12:25	EPA 8260	JV	
Surrogate: Toluene-d8		112 %	70-130				AL83983	12/18/18 10:00	12/18/18 12:25	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 2018090103

Reported:
12/28/18 09:57

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 AL84158 - VOAs in Water GCMS

Blank (AL84158-BLK1)

Prepared: 12/19/18 Analyzed: 12/20/18

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	1.0	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

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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 2018090103

Reported:
12/28/18 09:57

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 AL84158 - VOAs in Water GCMS

Blank (AL84158-BLK1)

Prepared: 12/19/18 Analyzed: 12/20/18

1,3-Dichloropropane	ND	0.50	0.50	ug/L							U
2,2-Dichloropropane	ND	0.30	0.50	ug/L							U
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

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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 2018090103

Reported:
12/28/18 09:57

Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Analyte	Result	MDL	Reporting		Spike Level	Source		%REC		RPD	Limit	Notes
			Limit	Units		Result	%REC	Limits	RPD			

Batch AL84158 - VOAs in Water GCMS

Blank (AL84158-BLK1)

Prepared: 12/19/18 Analyzed: 12/20/18

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
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	25.4			ug/L	25.0		102	70-130				
Surrogate: Dibromofluoromethane	24.0			ug/L	25.0		95.8	70-130				
Surrogate: Toluene-d8	27.9			ug/L	25.0		112	70-130				

LCS (AL84158-BS1)

Prepared: 12/19/18 Analyzed: 12/20/18

Acetone	19.0	2.0	5.0	ug/L	20.0		95.1	70-130				
Acrylonitrile	5.21	0.40	5.0	ug/L	5.00		104	70-130				
Benzene	4.82	0.30	0.30	ug/L	5.00		96.4	70-130				
Bromobenzene	4.76	0.20	0.50	ug/L	5.00		95.2	70-130				
Bromochloromethane	4.67	0.40	0.50	ug/L	5.00		93.4	70-130				
Bromodichloromethane	5.96	0.20	0.50	ug/L	5.00		119	70-130				
Bromoform	4.78	0.30	0.50	ug/L	5.00		95.6	70-130				
Bromomethane	4.73	0.40	0.50	ug/L	5.00		94.6	70-130				
n-Butylbenzene	4.59	0.50	0.50	ug/L	5.00		91.8	70-130				
sec-Butylbenzene	4.87	0.50	0.50	ug/L	5.00		97.4	70-130				
tert-Butylbenzene	4.93	0.50	0.50	ug/L	5.00		98.6	70-130				
Carbon disulfide	3.97	0.40	0.50	ug/L	5.00		79.4	70-130				
Carbon tetrachloride	5.00	0.30	0.50	ug/L	5.00		100	70-130				
Chlorobenzene	4.74	0.20	0.50	ug/L	5.00		94.8	70-130				
Chloroethane	4.64	0.30	0.50	ug/L	5.00		92.8	70-130				
Chloroform	4.90	0.30	0.50	ug/L	5.00		98.0	70-130				
Chloromethane	5.45	0.40	0.50	ug/L	5.00		109	70-130				
2-Chlorotoluene	4.93	0.20	0.50	ug/L	5.00		98.6	70-130				
4-Chlorotoluene	4.91	0.20	0.50	ug/L	5.00		98.2	70-130				
Dibromochloromethane	5.79	0.30	0.50	ug/L	5.00		116	70-130				
1,2-Dibromo-3-chloropropane	4.63	0.50	1.0	ug/L	5.00		92.6	70-130				
1,2-Dibromoethane (EDB)	5.07	0.20	0.50	ug/L	5.00		101	70-130				
Dibromomethane	4.37	0.20	0.50	ug/L	5.00		87.4	70-130				
1,2-Dichlorobenzene	4.63	0.20	0.50	ug/L	5.00		92.6	70-130				
1,3-Dichlorobenzene	4.76	0.20	0.50	ug/L	5.00		95.2	70-130				

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North Bay: 110 Liberty Street, Petaluma, CA 94952 • Phone: (707) 769-3128 • Fax: (707) 769-8093

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 2018090103

Reported:
12/28/18 09:57

Volatile Organic Compounds by EPA Method 524.2 - Quality Control

Analyte	Result	MDL	Reporting		Spike Level	Source		%REC		RPD		Notes
			Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch AL84158 - VOAs in Water GCMS

LCS (AL84158-BS1)

Prepared: 12/19/18 Analyzed: 12/20/18

trans-1,4-Dichloro-2-butene	3.92	0.90	5.0	ug/L	5.00	78.4	70-130					J
1,4-Dichlorobenzene	4.57	0.20	0.50	ug/L	5.00	91.4	70-130					
Dichlorodifluoromethane	5.72	0.50	0.50	ug/L	5.00	114	70-130					
1,1-Dichloroethane	4.91	0.20	0.50	ug/L	5.00	98.2	70-130					
1,2-Dichloroethane	4.50	0.50	0.50	ug/L	5.00	90.0	70-130					
1,1-Dichloroethene	4.41	0.30	0.30	ug/L	5.00	88.2	70-130					
cis-1,2-Dichloroethene	4.63	0.40	0.50	ug/L	5.00	92.6	70-130					
trans-1,2-Dichloroethene	4.70	0.40	0.50	ug/L	5.00	94.0	70-130					
1,2-Dichloropropane	4.57	0.20	0.50	ug/L	5.00	91.4	70-130					
1,3-Dichloropropane	4.85	0.50	0.50	ug/L	5.00	97.0	70-130					
2,2-Dichloropropane	3.67	0.30	0.50	ug/L	5.00	73.4	70-130					
1,1-Dichloropropene	4.89	0.50	0.50	ug/L	5.00	97.8	70-130					
cis-1,3-Dichloropropene	4.03	0.30	0.50	ug/L	5.00	80.6	70-130					
trans-1,3-Dichloropropene	4.04	0.30	0.50	ug/L	5.00	80.8	70-130					
Ethylbenzene	4.86	0.50	0.50	ug/L	5.00	97.2	70-130					
2-Hexanone	5.44	0.50	5.0	ug/L	5.00	109	70-130					
Hexachlorobutadiene	3.80	0.40	0.50	ug/L	5.00	76.0	70-130					
Isopropylbenzene	5.20	0.50	0.50	ug/L	5.00	104	70-130					
p-Isopropyltoluene	4.90	0.50	0.50	ug/L	5.00	98.0	70-130					
Methyl ethyl ketone	10.8	0.60	1.0	ug/L	10.0	108	70-130					
Methyl iodide	4.76	0.40	2.0	ug/L	5.00	95.2	70-130					
Methyl isobutyl ketone	10.7	0.80	1.0	ug/L	10.0	107	70-130					
Methylene chloride	3.61	0.40	0.50	ug/L	5.00	72.2	70-130					
Naphthalene	4.98	0.50	0.50	ug/L	5.00	99.6	70-130					
n-Propylbenzene	4.86	0.50	0.50	ug/L	5.00	97.2	70-130					
Styrene	4.84	0.20	0.50	ug/L	5.00	96.8	70-130					
1,1,1,2-Tetrachloroethane	4.38	0.40	0.50	ug/L	5.00	87.6	70-130					
1,1,2,2-Tetrachloroethane	4.92	0.20	0.50	ug/L	5.00	98.4	70-130					
Tetrachloroethene	4.45	0.50	0.50	ug/L	5.00	89.0	70-130					
Toluene	5.09	0.30	0.50	ug/L	5.00	102	70-130					
1,2,3-Trichlorobenzene	4.54	0.40	0.50	ug/L	5.00	90.8	70-130					
1,2,4-Trichlorobenzene	4.31	0.40	0.50	ug/L	5.00	86.2	70-130					
1,1,1-Trichloroethane	5.06	0.40	0.50	ug/L	5.00	101	70-130					
1,1,2-Trichloroethane	4.79	0.20	0.50	ug/L	5.00	95.8	70-130					

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North Bay: 110 Liberty Street, Petaluma, CA 94952 • Phone: (707) 769-3128 • Fax: (707) 769-8093

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 2018090103

Reported:
12/28/18 09:57

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 AL84158 - VOAs in Water GCMS

LCS (AL84158-BS1)

Prepared: 12/19/18 Analyzed: 12/20/18

Trichloroethene	4.81	0.50	0.50	ug/L	5.00		96.2	70-130			
Trichlorofluoromethane	5.75	0.50	0.50	ug/L	5.00		115	70-130			
Trichlorotrifluoroethane	5.04	0.40	0.50	ug/L	5.00		101	70-130			
1,2,3-Trichloropropane	5.04	0.50	0.50	ug/L	5.00		101	70-130			
1,2,4-Trimethylbenzene	5.06	0.50	0.50	ug/L	5.00		101	70-130			
1,3,5-Trimethylbenzene	4.89	0.50	0.50	ug/L	5.00		97.8	70-130			
Vinyl chloride	5.20	0.50	0.50	ug/L	5.00		104	70-130			
m,p-Xylene	9.71	0.50	0.50	ug/L	10.0		97.1	70-130			
o-Xylene	4.90	0.50	0.50	ug/L	5.00		98.0	70-130			
Xylenes (total)	14.6	0.50	0.50	ug/L	15.0		97.4	70-130			
Methyl tert-butyl ether	4.17	0.50	3.0	ug/L	5.00		83.4	70-130			
Ethyl tert-butyl ether	5.16	0.40	0.50	ug/L	5.00		103	70-130			
Tert-amyl methyl ether	4.07	0.30	0.50	ug/L	5.00		81.4	70-130			
Surrogate: Bromofluorobenzene	25.4			ug/L	25.0		101	70-130			
Surrogate: Dibromofluoromethane	23.7			ug/L	25.0		94.7	70-130			
Surrogate: Toluene-d8	26.2			ug/L	25.0		105	70-130			

LCS Dup (AL84158-BSD1)

Prepared: 12/19/18 Analyzed: 12/20/18

Acetone	18.2	2.0	5.0	ug/L	20.0		90.8	70-130	4.68	30	
Acrylonitrile	5.02	0.40	5.0	ug/L	5.00		100	70-130	3.71	30	
Benzene	4.80	0.30	0.30	ug/L	5.00		96.0	70-130	0.416	30	
Bromobenzene	4.81	0.20	0.50	ug/L	5.00		96.2	70-130	1.04	30	
Bromochloromethane	4.69	0.40	0.50	ug/L	5.00		93.8	70-130	0.427	30	
Bromodichloromethane	6.12	0.20	0.50	ug/L	5.00		122	70-130	2.65	30	
Bromoform	4.73	0.30	0.50	ug/L	5.00		94.6	70-130	1.05	30	
Bromomethane	4.82	0.40	0.50	ug/L	5.00		96.4	70-130	1.88	30	
n-Butylbenzene	4.54	0.50	0.50	ug/L	5.00		90.8	70-130	1.10	30	
sec-Butylbenzene	4.79	0.50	0.50	ug/L	5.00		95.8	70-130	1.66	30	
tert-Butylbenzene	4.94	0.50	0.50	ug/L	5.00		98.8	70-130	0.203	30	
Carbon disulfide	4.24	0.40	0.50	ug/L	5.00		84.8	70-130	6.58	30	
Carbon tetrachloride	5.19	0.30	0.50	ug/L	5.00		104	70-130	3.73	30	
Chlorobenzene	4.63	0.20	0.50	ug/L	5.00		92.6	70-130	2.35	30	
Chloroethane	4.61	0.30	0.50	ug/L	5.00		92.2	70-130	0.649	30	
Chloroform	4.99	0.30	0.50	ug/L	5.00		99.8	70-130	1.82	30	
Chloromethane	5.97	0.40	0.50	ug/L	5.00		119	70-130	9.11	30	

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North Bay: 110 Liberty Street, Petaluma, CA 94952 • Phone: (707) 769-3128 • Fax: (707) 769-8093

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 2018090103

Reported:
12/28/18 09:57

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 AL84158 - VOAs in Water GCMS

LCS Dup (AL84158-BSD1)

Prepared: 12/19/18 Analyzed: 12/20/18

2-Chlorotoluene	4.92	0.20	0.50	ug/L	5.00		98.4	70-130	0.203	30	
4-Chlorotoluene	4.79	0.20	0.50	ug/L	5.00		95.8	70-130	2.47	30	
Dibromochloromethane	5.85	0.30	0.50	ug/L	5.00		117	70-130	1.03	30	
1,2-Dibromo-3-chloropropane	4.76	0.50	1.0	ug/L	5.00		95.2	70-130	2.77	25	
1,2-Dibromoethane (EDB)	5.02	0.20	0.50	ug/L	5.00		100	70-130	0.991	25	
Dibromomethane	4.40	0.20	0.50	ug/L	5.00		88.0	70-130	0.684	30	
1,2-Dichlorobenzene	4.64	0.20	0.50	ug/L	5.00		92.8	70-130	0.216	30	
1,3-Dichlorobenzene	4.62	0.20	0.50	ug/L	5.00		92.4	70-130	2.99	30	
trans-1,4-Dichloro-2-butene	4.00	0.90	5.0	ug/L	5.00		80.0	70-130	2.02	25	J
1,4-Dichlorobenzene	4.61	0.20	0.50	ug/L	5.00		92.2	70-130	0.871	30	
Dichlorodifluoromethane	5.97	0.50	0.50	ug/L	5.00		119	70-130	4.28	30	
1,1-Dichloroethane	4.95	0.20	0.50	ug/L	5.00		99.0	70-130	0.811	30	
1,2-Dichloroethane	4.39	0.50	0.50	ug/L	5.00		87.8	70-130	2.47	30	
1,1-Dichloroethene	4.56	0.30	0.30	ug/L	5.00		91.2	70-130	3.34	30	
cis-1,2-Dichloroethene	4.72	0.40	0.50	ug/L	5.00		94.4	70-130	1.93	30	
trans-1,2-Dichloroethene	4.76	0.40	0.50	ug/L	5.00		95.2	70-130	1.27	30	
1,2-Dichloropropane	4.61	0.20	0.50	ug/L	5.00		92.2	70-130	0.871	30	
1,3-Dichloropropane	4.79	0.50	0.50	ug/L	5.00		95.8	70-130	1.24	30	
2,2-Dichloropropane	3.65	0.30	0.50	ug/L	5.00		73.0	70-130	0.546	30	
1,1-Dichloropropene	4.99	0.50	0.50	ug/L	5.00		99.8	70-130	2.02	30	
cis-1,3-Dichloropropene	4.06	0.30	0.50	ug/L	5.00		81.2	70-130	0.742	30	
trans-1,3-Dichloropropene	4.12	0.30	0.50	ug/L	5.00		82.4	70-130	1.96	30	
2-Hexanone	5.55	0.50	5.0	ug/L	5.00		111	70-130	2.00	25	
Ethylbenzene	4.68	0.50	0.50	ug/L	5.00		93.6	70-130	3.77	30	
Hexachlorobutadiene	3.51	0.40	0.50	ug/L	5.00		70.2	70-130	7.93	30	
Isopropylbenzene	5.16	0.50	0.50	ug/L	5.00		103	70-130	0.772	30	
p-Isopropyltoluene	4.77	0.50	0.50	ug/L	5.00		95.4	70-130	2.69	30	
Methyl ethyl ketone	10.2	0.60	1.0	ug/L	10.0		102	70-130	6.20	30	
Methyl iodide	4.79	0.40	2.0	ug/L	5.00		95.8	70-130	0.628	25	
Methyl isobutyl ketone	11.2	0.80	1.0	ug/L	10.0		112	70-130	4.46	30	
Methylene chloride	3.61	0.40	0.50	ug/L	5.00		72.2	70-130	0.00	30	
Naphthalene	4.77	0.50	0.50	ug/L	5.00		95.4	70-130	4.31	30	
n-Propylbenzene	4.91	0.50	0.50	ug/L	5.00		98.2	70-130	1.02	30	
Styrene	4.64	0.20	0.50	ug/L	5.00		92.8	70-130	4.22	30	
1,1,1,2-Tetrachloroethane	4.37	0.40	0.50	ug/L	5.00		87.4	70-130	0.229	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 2018090103

Reported:
12/28/18 09:57

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 AL84158 - VOAs in Water GCMS

LCS Dup (AL84158-BSD1)

Prepared: 12/19/18 Analyzed: 12/20/18

1,1,2,2-Tetrachloroethane	4.91	0.20	0.50	ug/L	5.00		98.2	70-130	0.203	30	
Tetrachloroethene	4.57	0.50	0.50	ug/L	5.00		91.4	70-130	2.66	30	
Toluene	5.03	0.30	0.50	ug/L	5.00		101	70-130	1.19	30	
1,2,3-Trichlorobenzene	4.35	0.40	0.50	ug/L	5.00		87.0	70-130	4.27	30	
1,2,4-Trichlorobenzene	4.06	0.40	0.50	ug/L	5.00		81.2	70-130	5.97	30	
1,1,1-Trichloroethane	5.30	0.40	0.50	ug/L	5.00		106	70-130	4.63	30	
1,1,1,2-Trichloroethane	4.76	0.20	0.50	ug/L	5.00		95.2	70-130	0.628	30	
Trichloroethene	4.83	0.50	0.50	ug/L	5.00		96.6	70-130	0.415	30	
Trichlorofluoromethane	6.18	0.50	0.50	ug/L	5.00		124	70-130	7.21	30	
Trichlorotrifluoroethane	5.19	0.40	0.50	ug/L	5.00		104	70-130	2.93	30	
1,2,3-Trichloropropane	5.00	0.50	0.50	ug/L	5.00		100	70-130	0.797	25	
1,2,4-Trimethylbenzene	4.93	0.50	0.50	ug/L	5.00		98.6	70-130	2.60	30	
1,3,5-Trimethylbenzene	4.94	0.50	0.50	ug/L	5.00		98.8	70-130	1.02	30	
Vinyl chloride	5.15	0.50	0.50	ug/L	5.00		103	70-130	0.966	30	
m,p-Xylene	9.40	0.50	0.50	ug/L	10.0		94.0	70-130	3.24	30	
o-Xylene	4.69	0.50	0.50	ug/L	5.00		93.8	70-130	4.38	30	
Xylenes (total)	14.1	0.50	0.50	ug/L	15.0		93.9	70-130	3.62	30	
Methyl tert-butyl ether	4.07	0.50	3.0	ug/L	5.00		81.4	70-130	2.43	30	
Ethyl tert-butyl ether	5.17	0.40	0.50	ug/L	5.00		103	70-130	0.194	30	
Tert-amyl methyl ether	4.11	0.30	0.50	ug/L	5.00		82.2	70-130	0.978	30	
Surrogate: Bromofluorobenzene	26.8			ug/L	25.0		107	70-130			
Surrogate: Dibromofluoromethane	24.8			ug/L	25.0		99.0	70-130			
Surrogate: Toluene-d8	27.0			ug/L	25.0		108	70-130			

Matrix Spike (AL84158-MS1)

Source: 18L1288-01

Prepared: 12/19/18 Analyzed: 12/20/18

Acetone	27.9	2.0	5.0	ug/L	20.0	4.77	116	70-130			
Acrylonitrile	5.91	0.40	5.0	ug/L	5.00	ND	118	70-130			
Benzene	5.22	0.30	0.30	ug/L	5.00	ND	104	70-130			
Bromobenzene	4.94	0.20	0.50	ug/L	5.00	ND	98.8	70-130			
Bromochloromethane	4.85	0.40	0.50	ug/L	5.00	ND	97.0	70-130			
Bromodichloromethane	6.45	0.20	0.50	ug/L	5.00	ND	129	70-130			
Bromoform	4.79	0.30	0.50	ug/L	5.00	ND	95.8	70-130			
Bromomethane	5.47	0.40	0.50	ug/L	5.00	ND	109	70-130			
n-Butylbenzene	5.41	0.50	0.50	ug/L	5.00	ND	108	70-130			
sec-Butylbenzene	5.54	0.50	0.50	ug/L	5.00	ND	111	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 2018090103

Reported:
12/28/18 09:57

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 AL84158 - VOAs in Water GCMS

Matrix Spike (AL84158-MS1)

Source: 18L1288-01

Prepared: 12/19/18 Analyzed: 12/20/18

tert-Butylbenzene	5.49	0.50	0.50	ug/L	5.00	ND	110	70-130			
Carbon disulfide	4.53	0.40	0.50	ug/L	5.00	ND	90.6	70-130			
Carbon tetrachloride	5.73	0.30	0.50	ug/L	5.00	ND	115	70-130			
Chlorobenzene	4.94	0.20	0.50	ug/L	5.00	ND	98.8	70-130			
Chloroethane	5.40	0.30	0.50	ug/L	5.00	ND	108	70-130			
Chloroform	5.36	0.30	0.50	ug/L	5.00	ND	107	70-130			
Chloromethane	4.48	0.40	0.50	ug/L	5.00	ND	89.6	70-130			
2-Chlorotoluene	5.34	0.20	0.50	ug/L	5.00	ND	107	70-130			
4-Chlorotoluene	5.17	0.20	0.50	ug/L	5.00	ND	103	70-130			
Dibromochloromethane	5.78	0.30	0.50	ug/L	5.00	ND	116	70-130			
1,2-Dibromo-3-chloropropane	4.43	0.50	1.0	ug/L	5.00	ND	88.6	70-130			
1,2-Dibromoethane (EDB)	5.21	0.20	0.50	ug/L	5.00	ND	104	70-130			
Dibromomethane	4.62	0.20	0.50	ug/L	5.00	ND	92.4	70-130			
1,2-Dichlorobenzene	4.76	0.20	0.50	ug/L	5.00	ND	95.2	70-130			
1,3-Dichlorobenzene	4.99	0.20	0.50	ug/L	5.00	ND	99.8	70-130			
1,4-Dichlorobenzene	4.71	0.20	0.50	ug/L	5.00	ND	94.2	70-130			
trans-1,4-Dichloro-2-butene	4.61	0.90	5.0	ug/L	5.00	ND	92.2	70-130			J
Dichlorodifluoromethane	6.70	0.50	0.50	ug/L	5.00	ND	134	70-130			QM-05
1,1-Dichloroethane	5.25	0.20	0.50	ug/L	5.00	ND	105	70-130			
1,2-Dichloroethane	4.63	0.50	0.50	ug/L	5.00	ND	92.6	70-130			
1,1-Dichloroethene	4.85	0.30	0.30	ug/L	5.00	ND	97.0	70-130			
cis-1,2-Dichloroethene	4.95	0.40	0.50	ug/L	5.00	ND	99.0	70-130			
trans-1,2-Dichloroethene	5.09	0.40	0.50	ug/L	5.00	ND	102	70-130			
1,2-Dichloropropane	4.95	0.20	0.50	ug/L	5.00	ND	99.0	70-130			
1,3-Dichloropropane	4.95	0.50	0.50	ug/L	5.00	ND	99.0	70-130			
2,2-Dichloropropane	5.46	0.30	0.50	ug/L	5.00	ND	109	70-130			
1,1-Dichloropropene	5.35	0.50	0.50	ug/L	5.00	ND	107	70-130			
cis-1,3-Dichloropropene	4.32	0.30	0.50	ug/L	5.00	ND	86.4	70-130			
trans-1,3-Dichloropropene	4.33	0.30	0.50	ug/L	5.00	ND	86.6	70-130			
2-Hexanone	5.75	0.50	5.0	ug/L	5.00	ND	115	70-130			
Ethylbenzene	5.23	0.50	0.50	ug/L	5.00	ND	105	70-130			
Hexachlorobutadiene	4.48	0.40	0.50	ug/L	5.00	ND	89.6	70-130			
Isopropylbenzene	5.69	0.50	0.50	ug/L	5.00	ND	114	70-130			
p-Isopropyltoluene	5.50	0.50	0.50	ug/L	5.00	ND	110	70-130			

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North Bay: 110 Liberty Street, Petaluma, CA 94952 • Phone: (707) 769-3128 • Fax: (707) 769-8093

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 2018090103

Reported:
12/28/18 09:57

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 AL84158 - VOAs in Water GCMS

Matrix Spike (AL84158-MS1)	Source: 18L1288-01			Prepared: 12/19/18 Analyzed: 12/20/18						
Methyl ethyl ketone	12.3	0.60	1.0	ug/L	10.0	ND	123	70-130		
Methyl iodide	5.08	0.40	2.0	ug/L	5.00	ND	102	70-130		
Methyl isobutyl ketone	11.8	0.80	1.0	ug/L	10.0	ND	118	70-130		
Methylene chloride	3.58	0.40	0.50	ug/L	5.00	ND	71.6	70-130		
Naphthalene	4.88	0.50	0.50	ug/L	5.00	ND	97.6	70-130		
n-Propylbenzene	5.42	0.50	0.50	ug/L	5.00	ND	108	70-130		
Styrene	5.09	0.20	0.50	ug/L	5.00	ND	102	70-130		
1,1,1,2-Tetrachloroethane	4.70	0.40	0.50	ug/L	5.00	ND	94.0	70-130		
1,1,1,2,2-Tetrachloroethane	5.04	0.20	0.50	ug/L	5.00	ND	101	70-130		
Tetrachloroethene	4.94	0.50	0.50	ug/L	5.00	ND	98.8	70-130		
Toluene	5.49	0.30	0.50	ug/L	5.00	ND	110	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	4.48	0.40	0.50	ug/L	5.00	ND	89.6	70-130		
1,1,1-Trichloroethane	5.67	0.40	0.50	ug/L	5.00	ND	113	70-130		
1,1,2-Trichloroethane	5.02	0.20	0.50	ug/L	5.00	ND	100	70-130		
Trichloroethene	5.13	0.50	0.50	ug/L	5.00	ND	103	70-130		
Trichlorofluoromethane	6.92	0.50	0.50	ug/L	5.00	ND	138	70-130		QM-05
Trichlorotrifluoroethane	5.94	0.40	0.50	ug/L	5.00	ND	119	70-130		
1,2,3-Trichloropropane	5.18	0.50	0.50	ug/L	5.00	ND	104	70-130		
1,2,4-Trimethylbenzene	5.42	0.50	0.50	ug/L	5.00	ND	108	70-130		
1,3,5-Trimethylbenzene	5.36	0.50	0.50	ug/L	5.00	ND	107	70-130		
Vinyl chloride	6.10	0.50	0.50	ug/L	5.00	ND	122	70-130		
m,p-Xylene	10.5	0.50	0.50	ug/L	10.0	ND	105	70-130		
o-Xylene	5.28	0.50	0.50	ug/L	5.00	ND	106	70-130		
Xylenes (total)	15.7	0.50	0.50	ug/L	15.0	ND	105	70-130		
Methyl tert-butyl ether	4.01	0.50	3.0	ug/L	5.00	ND	80.2	70-130		
Ethyl tert-butyl ether	5.68	0.40	0.50	ug/L	5.00	ND	114	70-130		
Tert-amyl methyl ether	4.20	0.30	0.50	ug/L	5.00	ND	84.0	70-130		
Surrogate: Bromofluorobenzene	26.5			ug/L	25.0		106	70-130		
Surrogate: Dibromofluoromethane	24.6			ug/L	25.0		98.3	70-130		
Surrogate: Toluene-d8	27.1			ug/L	25.0		108	70-130		

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North Bay: 110 Liberty Street, Petaluma, CA 94952 • Phone: (707) 769-3128 • Fax: (707) 769-8093

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 2018090103

Reported:
12/28/18 09:57

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 AL84158 - VOAs in Water GCMS

Matrix Spike (AL84158-MS2)	Source: 18L1866-01	Prepared: 12/19/18	Analyzed: 12/20/18	QM-05			
Acetone	28.3	2.0	5.0 ug/L	20.0	ND	141	70-130
Acrylonitrile	6.76	0.40	5.0 ug/L	5.00	ND	135	70-130
Benzene	5.55	0.30	0.30 ug/L	5.00	ND	111	70-130
Bromobenzene	5.34	0.20	0.50 ug/L	5.00	ND	107	70-130
Bromochloromethane	5.22	0.40	0.50 ug/L	5.00	ND	104	70-130
Bromodichloromethane	7.00	0.20	0.50 ug/L	5.00	ND	140	70-130
Bromoform	5.32	0.30	0.50 ug/L	5.00	ND	106	70-130
Bromomethane	6.08	0.40	0.50 ug/L	5.00	ND	122	70-130
n-Butylbenzene	6.06	0.50	0.50 ug/L	5.00	ND	121	70-130
sec-Butylbenzene	6.09	0.50	0.50 ug/L	5.00	ND	122	70-130
tert-Butylbenzene	6.03	0.50	0.50 ug/L	5.00	ND	121	70-130
Carbon disulfide	5.20	0.40	0.50 ug/L	5.00	ND	104	70-130
Carbon tetrachloride	6.21	0.30	0.50 ug/L	5.00	ND	124	70-130
Chlorobenzene	5.40	0.20	0.50 ug/L	5.00	ND	108	70-130
Chloroethane	5.87	0.30	0.50 ug/L	5.00	ND	117	70-130
Chloroform	5.57	0.30	0.50 ug/L	5.00	ND	111	70-130
Chloromethane	4.72	0.40	0.50 ug/L	5.00	ND	94.4	70-130
2-Chlorotoluene	5.72	0.20	0.50 ug/L	5.00	ND	114	70-130
4-Chlorotoluene	5.55	0.20	0.50 ug/L	5.00	ND	111	70-130
Dibromochloromethane	6.26	0.30	0.50 ug/L	5.00	ND	125	70-130
1,2-Dibromo-3-chloropropane	4.93	0.50	1.0 ug/L	5.00	ND	98.6	70-130
1,2-Dibromoethane (EDB)	5.75	0.20	0.50 ug/L	5.00	ND	115	70-130
Dibromomethane	5.01	0.20	0.50 ug/L	5.00	ND	100	70-130
1,2-Dichlorobenzene	5.31	0.20	0.50 ug/L	5.00	ND	106	70-130
1,3-Dichlorobenzene	5.46	0.20	0.50 ug/L	5.00	ND	109	70-130
1,4-Dichlorobenzene	5.15	0.20	0.50 ug/L	5.00	ND	103	70-130
trans-1,4-Dichloro-2-butene	5.25	0.90	5.0 ug/L	5.00	ND	105	70-130
Dichlorodifluoromethane	7.27	0.50	0.50 ug/L	5.00	ND	145	70-130
1,1-Dichloroethane	5.63	0.20	0.50 ug/L	5.00	ND	113	70-130
1,2-Dichloroethane	4.92	0.50	0.50 ug/L	5.00	ND	98.4	70-130
1,1-Dichloroethene	5.43	0.30	0.30 ug/L	5.00	ND	109	70-130
cis-1,2-Dichloroethene	5.36	0.40	0.50 ug/L	5.00	ND	107	70-130
trans-1,2-Dichloroethene	5.68	0.40	0.50 ug/L	5.00	ND	114	70-130
1,2-Dichloropropane	5.25	0.20	0.50 ug/L	5.00	ND	105	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 2018090103

Reported:
12/28/18 09:57

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 AL84158 - VOAs in Water GCMS

Matrix Spike (AL84158-MS2)	Source: 18L1866-01	Prepared: 12/19/18	Analyzed: 12/20/18	QM-05			
1,3-Dichloropropane	5.33	0.50	0.50 ug/L	5.00	ND	107	70-130
2,2-Dichloropropane	6.13	0.30	0.50 ug/L	5.00	ND	123	70-130
1,1-Dichloropropene	5.83	0.50	0.50 ug/L	5.00	ND	117	70-130
cis-1,3-Dichloropropene	4.67	0.30	0.50 ug/L	5.00	ND	93.4	70-130
trans-1,3-Dichloropropene	4.80	0.30	0.50 ug/L	5.00	ND	96.0	70-130
2-Hexanone	6.53	0.50	5.0 ug/L	5.00	ND	131	70-130
Ethylbenzene	5.69	0.50	0.50 ug/L	5.00	ND	114	70-130
Hexachlorobutadiene	5.33	0.40	0.50 ug/L	5.00	ND	107	70-130
Isopropylbenzene	6.15	0.50	0.50 ug/L	5.00	ND	123	70-130
p-Isopropyltoluene	6.12	0.50	0.50 ug/L	5.00	ND	122	70-130
Methyl ethyl ketone	14.0	0.60	1.0 ug/L	10.0	ND	140	70-130
Methyl iodide	5.61	0.40	2.0 ug/L	5.00	ND	112	70-130
Methyl isobutyl ketone	12.9	0.80	1.0 ug/L	10.0	ND	129	70-130
Methylene chloride	3.77	0.40	0.50 ug/L	5.00	ND	75.4	70-130
Naphthalene	5.54	0.50	0.50 ug/L	5.00	ND	111	70-130
n-Propylbenzene	5.98	0.50	0.50 ug/L	5.00	ND	120	70-130
Styrene	5.57	0.20	0.50 ug/L	5.00	ND	111	70-130
1,1,1,2-Tetrachloroethane	5.16	0.40	0.50 ug/L	5.00	ND	103	70-130
1,1,2,2-Tetrachloroethane	5.46	0.20	0.50 ug/L	5.00	ND	109	70-130
Tetrachloroethene	5.23	0.50	0.50 ug/L	5.00	ND	105	70-130
Toluene	5.81	0.30	0.50 ug/L	5.00	ND	116	70-130
1,2,3-Trichlorobenzene	5.35	0.40	0.50 ug/L	5.00	ND	107	70-130
1,2,4-Trichlorobenzene	5.06	0.40	0.50 ug/L	5.00	ND	101	70-130
1,1,1-Trichloroethane	6.20	0.40	0.50 ug/L	5.00	ND	124	70-130
1,1,2-Trichloroethane	5.33	0.20	0.50 ug/L	5.00	ND	107	70-130
Trichloroethene	5.58	0.50	0.50 ug/L	5.00	ND	112	70-130
Trichlorofluoromethane	7.59	0.50	0.50 ug/L	5.00	ND	152	70-130
Trichlorotrifluoroethane	6.52	0.40	0.50 ug/L	5.00	ND	130	70-130
1,2,3-Trichloropropane	5.60	0.50	0.50 ug/L	5.00	ND	112	70-130
1,2,4-Trimethylbenzene	5.95	0.50	0.50 ug/L	5.00	ND	119	70-130
1,3,5-Trimethylbenzene	5.88	0.50	0.50 ug/L	5.00	ND	118	70-130
Vinyl chloride	5.69	0.50	0.50 ug/L	5.00	ND	114	70-130
m,p-Xylene	11.3	0.50	0.50 ug/L	10.0	ND	113	70-130
o-Xylene	5.64	0.50	0.50 ug/L	5.00	ND	113	70-130
Xylenes (total)	17.0	0.50	0.50 ug/L	15.0	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 2018090103

Reported:
12/28/18 09:57

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 AL84158 - VOAs in Water GCMS

Matrix Spike (AL84158-MS2)	Source: 18L1866-01	Prepared: 12/19/18	Analyzed: 12/20/18	QM-05			
Methyl tert-butyl ether	4.21	0.50	3.0 ug/L	5.00	ND	84.2	70-130
Ethyl tert-butyl ether	5.97	0.40	0.50 ug/L	5.00	ND	119	70-130
Tert-amyl methyl ether	4.47	0.30	0.50 ug/L	5.00	ND	89.4	70-130
Surrogate: Bromofluorobenzene	26.5		ug/L	25.0		106	70-130
Surrogate: Dibromofluoromethane	24.5		ug/L	25.0		97.9	70-130
Surrogate: Toluene-d8	26.8		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 2018090103

Reported:
12/28/18 09:57

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 AL83983 - VOAs in Water GCMS

Blank (AL83983-BLK1)

Prepared & Analyzed: 12/17/18

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

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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 2018090103

Reported:
12/28/18 09:57

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 AL83983 - VOAs in Water GCMS

Blank (AL83983-BLK1)

Prepared & Analyzed: 12/17/18

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	0.40	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

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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 2018090103

Reported:
12/28/18 09:57

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 AL83983 - VOAs in Water GCMS

Blank (AL83983-BLK1)

Prepared & Analyzed: 12/17/18

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
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	27.0			ug/L	25.0		108	70-130			
Surrogate: Dibromofluoromethane	24.8			ug/L	25.0		99.1	70-130			
Surrogate: Toluene-d8	28.2			ug/L	25.0		113	70-130			

LCS (AL83983-BS1)

Prepared & Analyzed: 12/17/18

Acetone	63.3	3.0	5.0	ug/L	80.0		79.1	48-124			
Acetonitrile	1900	50	100	ug/L	2000		94.8	70-130			
Acrylonitrile	20.6	0.40	5.0	ug/L	20.0		103	70-130			
Allyl chloride	24.6	0.40	10	ug/L	20.0		123	70-130			
Benzene	20.8	0.30	0.30	ug/L	20.0		104	82-122			
Bromobenzene	21.2	0.40	0.50	ug/L	20.0		106	83-122			
Bromochloromethane	20.6	0.40	0.50	ug/L	20.0		103	83-124			
Bromodichloromethane	19.3	0.40	0.50	ug/L	20.0		96.5	86-135			
Bromoform	20.4	0.30	0.50	ug/L	20.0		102	76-144			
Bromomethane	18.5	0.40	0.50	ug/L	20.0		92.3	69-145			
n-Butylbenzene	21.2	0.40	0.50	ug/L	20.0		106	79-132			
sec-Butylbenzene	21.0	0.40	0.50	ug/L	20.0		105	86-132			

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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 2018090103

Reported:
12/28/18 09:57

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 AL83983 - VOAs in Water GCMS

LCS (AL83983-BS1)

Prepared & Analyzed: 12/17/18

tert-Butylbenzene	22.3	0.30	0.50	ug/L	20.0		111	82-126			
Carbon disulfide	22.0	0.40	5.0	ug/L	20.0		110	70-130			
Carbon tetrachloride	20.5	0.40	0.50	ug/L	20.0		102	77-134			
Chlorobenzene	20.4	0.30	0.50	ug/L	20.0		102	84-119			
Chloroethane	22.8	0.40	0.50	ug/L	20.0		114	68-133			
Chloroform	20.9	0.40	0.50	ug/L	20.0		105	81-122			
Chloromethane	22.6	0.40	0.50	ug/L	20.0		113	63-129			
Chloroprene	22.7	0.40	1.0	ug/L	20.0		114	70-130			
2-Chlorotoluene	21.2	0.40	0.50	ug/L	20.0		106	79-132			
4-Chlorotoluene	21.2	0.30	0.50	ug/L	20.0		106	80-122			
Dibromochloromethane	19.5	0.40	0.50	ug/L	20.0		97.3	83-135			
1,2-Dibromo-3-chloropropane	22.0	0.60	2.0	ug/L	20.0		110	73-128			
1,2-Dibromoethane (EDB)	20.7	0.40	0.50	ug/L	20.0		103	80-120			
Dibromomethane	20.0	0.40	0.50	ug/L	20.0		99.8	82-124			
1,2-Dichlorobenzene	20.6	0.40	0.50	ug/L	20.0		103	84-121			
1,3-Dichlorobenzene	20.7	0.40	0.50	ug/L	20.0		103	80-120			
1,4-Dichlorobenzene	19.5	0.10	0.50	ug/L	20.0		97.7	84-120			
trans-1,4-Dichloro-2-butene	21.7	0.50	5.0	ug/L	20.0		108	70-130			
Dichlorodifluoromethane	22.2	0.40	0.50	ug/L	20.0		111	52-142			
1,1-Dichloroethane	21.0	0.10	0.50	ug/L	20.0		105	81-126			
1,2-Dichloroethane	19.7	0.40	0.50	ug/L	20.0		98.7	77-117			
1,1-Dichloroethene	21.3	0.30	0.50	ug/L	20.0		106	71-151			
cis-1,2-Dichloroethene	20.0	0.40	0.50	ug/L	20.0		99.9	84-131			
trans-1,2-Dichloroethene	20.3	0.40	0.50	ug/L	20.0		101	79-128			
1,2-Dichloropropane	20.7	0.40	0.50	ug/L	20.0		104	82-125			
1,3-Dichloropropane	21.5	0.40	0.50	ug/L	20.0		107	83-120			
2,2-Dichloropropane	18.3	0.20	0.50	ug/L	20.0		91.5	80-125			
1,1-Dichloropropene	21.8	0.40	0.50	ug/L	20.0		109	85-130			
cis-1,3-Dichloropropene	19.7	0.40	0.50	ug/L	20.0		98.6	83-128			
trans-1,3-Dichloropropene	20.7	0.40	0.50	ug/L	20.0		104	67-129			
Diethyl ether	19.3	0.20	1.0	ug/L	20.0		96.3	70-130			
Di-isopropyl ether	21.2	0.40	0.50	ug/L	20.0		106	83-132			
Ethylbenzene	21.7	0.40	0.50	ug/L	20.0		108	84-124			
Ethyl methacrylate	22.0	0.70	10	ug/L	20.0		110	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 2018090103

Reported:
12/28/18 09:57

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 AL83983 - VOAs in Water GCMS

LCS (AL83983-BS1)

Prepared & Analyzed: 12/17/18

Ethanol	912	50	50	ug/L	980		93.0	50-150			
Hexachloroethane	21.3	0.40	1.0	ug/L	20.0		106	70-130			
Ethyl tert-butyl ether	24.1	0.40	0.50	ug/L	20.0		120	74-127			
Hexachlorobutadiene	19.0	0.50	0.50	ug/L	20.0		95.0	75-135			
2-Hexanone	20.9	0.50	5.0	ug/L	20.0		105	70-130			
Isobutanol	2090	40	100	ug/L	2000		104	70-130			
Isopropylbenzene	22.1	0.40	0.50	ug/L	20.0		110	75-116			
p-Isopropyltoluene	22.3	0.40	0.50	ug/L	20.0		111	78-124			
Methacrylonitrile	19.0	0.40	1.0	ug/L	20.0		94.8	70-130			
Methylene chloride	21.9	0.50	0.50	ug/L	20.0		109	72-132			
Methyl ethyl ketone	39.5	0.70	1.0	ug/L	40.0		98.8	58-157			
Methyl iodide	21.8	0.40	2.0	ug/L	20.0		109	56-167			
Methyl isobutyl ketone	43.3	0.60	1.0	ug/L	40.0		108	70-130			
Methyl methacrylate	21.6	0.40	1.0	ug/L	20.0		108	70-130			
Methyl tert-butyl ether	18.0	0.50	0.50	ug/L	20.0		90.0	84-119			
Naphthalene	20.6	0.50	0.50	ug/L	20.0		103	84-134			
Propionitrile	959	20	50	ug/L	1000		95.9	70-130			
n-Propylbenzene	23.1	0.40	0.50	ug/L	20.0		115	75-127			
Styrene	20.8	0.40	0.50	ug/L	20.0		104	80-125			
Tert-amyl methyl ether	23.1	0.40	0.50	ug/L	20.0		115	74-120			
Tert-butyl alcohol	473	6.0	10	ug/L	400		118	66-147			
1,1,1,2-Tetrachloroethane	20.1	0.40	0.50	ug/L	20.0		100	80-132			
1,1,2,2-Tetrachloroethane	21.2	0.30	0.50	ug/L	20.0		106	84-115			
Tetrachloroethene	20.3	0.40	0.50	ug/L	20.0		102	56-156			
Tetrahydrofuran	20.2	0.40	5.0	ug/L	20.0		101	70-130			
Toluene	21.4	0.30	0.30	ug/L	20.0		107	76-137			
1,2,4-Trichlorobenzene	21.0	0.20	0.50	ug/L	20.0		105	84-126			
1,2,3-Trichlorobenzene	21.4	0.50	0.50	ug/L	20.0		107	85-133			
1,1,1-Trichloroethane	24.7	0.40	0.50	ug/L	20.0		123	70-130			
1,1,2-Trichloroethane	21.4	0.40	0.50	ug/L	20.0		107	83-122			
Trichloroethene	22.4	0.40	0.50	ug/L	20.0		112	84-123			
Trichlorofluoromethane	22.0	0.20	0.50	ug/L	20.0		110	74-130			
1,2,3-Trichloropropane	21.7	0.40	0.50	ug/L	20.0		108	78-122			
Trichlorotrifluoroethane	19.3	0.50	0.50	ug/L	20.0		96.7	82-125			
1,2,4-Trimethylbenzene	22.7	0.40	0.50	ug/L	20.0		113	85-127			

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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 2018090103

Reported:
12/28/18 09:57

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 AL83983 - VOAs in Water GCMS

LCS (AL83983-BS1)

Prepared & Analyzed: 12/17/18

1,3,5-Trimethylbenzene	19.9	0.30	0.50	ug/L	20.0		99.4	80-125			
Vinyl acetate	30.2	0.80	1.0	ug/L	40.0		75.4	60-140			
Vinyl chloride	24.4	0.40	0.50	ug/L	20.0		122	70-130			
m,p-Xylene	43.4	0.50	0.50	ug/L	40.0		109	81-124			
o-Xylene	21.7	0.40	0.50	ug/L	20.0		108	80-126			
Xylenes (total)	65.1	0.50	0.50	ug/L	60.0		108	81-126			
Surrogate: Bromofluorobenzene	28.4			ug/L	25.0		113	70-130			
Surrogate: Dibromofluoromethane	26.1			ug/L	25.0		104	70-130			
Surrogate: Toluene-d8	27.4			ug/L	25.0		110	70-130			

LCS Dup (AL83983-BSD1)

Prepared & Analyzed: 12/17/18

Acetone	65.8	3.0	5.0	ug/L	80.0		82.3	48-124	3.90	25	
Acetonitrile	1860	50	100	ug/L	2000		93.1	70-130	1.74	25	
Acrylonitrile	22.1	0.40	5.0	ug/L	20.0		111	70-130	7.02	25	
Allyl chloride	23.8	0.40	10	ug/L	20.0		119	70-130	3.06	25	
Benzene	20.4	0.30	0.30	ug/L	20.0		102	82-122	1.65	25	
Bromobenzene	21.1	0.40	0.50	ug/L	20.0		106	83-122	0.189	25	
Bromochloromethane	20.6	0.40	0.50	ug/L	20.0		103	83-124	0.0971	25	
Bromodichloromethane	19.8	0.40	0.50	ug/L	20.0		98.8	86-135	2.30	25	
Bromoform	21.1	0.30	0.50	ug/L	20.0		106	76-144	3.52	25	
Bromomethane	18.3	0.40	0.50	ug/L	20.0		91.6	69-145	0.707	25	
n-Butylbenzene	21.5	0.40	0.50	ug/L	20.0		108	79-132	1.83	25	
sec-Butylbenzene	21.0	0.40	0.50	ug/L	20.0		105	86-132	0.0951	25	
tert-Butylbenzene	22.1	0.30	0.50	ug/L	20.0		110	82-126	0.947	25	
Carbon disulfide	22.4	0.40	5.0	ug/L	20.0		112	70-130	2.12	30	
Carbon tetrachloride	21.1	0.40	0.50	ug/L	20.0		105	77-134	2.94	25	
Chlorobenzene	20.2	0.30	0.50	ug/L	20.0		101	84-119	0.836	25	
Chloroethane	22.0	0.40	0.50	ug/L	20.0		110	68-133	3.44	25	
Chloroform	20.6	0.40	0.50	ug/L	20.0		103	81-122	1.49	25	
Chloromethane	22.4	0.40	0.50	ug/L	20.0		112	63-129	0.622	25	
Chloroprene	21.4	0.40	1.0	ug/L	20.0		107	70-130	5.98	25	
2-Chlorotoluene	20.8	0.40	0.50	ug/L	20.0		104	79-132	2.09	25	
4-Chlorotoluene	21.3	0.30	0.50	ug/L	20.0		106	80-122	0.376	25	
Dibromochloromethane	20.5	0.40	0.50	ug/L	20.0		102	83-135	5.11	25	
1,2-Dibromo-3-chloropropane	22.8	0.60	2.0	ug/L	20.0		114	73-128	3.88	25	

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 2018090103

Reported:
12/28/18 09:57

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 AL83983 - VOAs in Water GCMS

LCS Dup (AL83983-BSD1)

Prepared & Analyzed: 12/17/18

1,2-Dibromoethane (EDB)	20.7	0.40	0.50	ug/L	20.0		104	80-120	0.145	25	
Dibromomethane	20.0	0.40	0.50	ug/L	20.0		99.9	82-124	0.150	25	
1,2-Dichlorobenzene	20.5	0.40	0.50	ug/L	20.0		103	84-121	0.292	25	
1,3-Dichlorobenzene	20.6	0.40	0.50	ug/L	20.0		103	80-120	0.582	25	
1,4-Dichlorobenzene	19.8	0.10	0.50	ug/L	20.0		99.0	84-120	1.37	25	
trans-1,4-Dichloro-2-butene	22.5	0.50	5.0	ug/L	20.0		112	70-130	3.53	25	
Dichlorodifluoromethane	22.6	0.40	0.50	ug/L	20.0		113	52-142	1.92	25	
1,1-Dichloroethane	20.7	0.10	0.50	ug/L	20.0		103	81-126	1.73	25	
1,2-Dichloroethane	19.4	0.40	0.50	ug/L	20.0		97.0	77-117	1.69	25	
1,1-Dichloroethene	20.2	0.30	0.50	ug/L	20.0		101	71-151	5.06	25	
cis-1,2-Dichloroethene	20.0	0.40	0.50	ug/L	20.0		99.8	84-131	0.0501	25	
trans-1,2-Dichloroethene	20.2	0.40	0.50	ug/L	20.0		101	79-128	0.197	25	
1,2-Dichloropropane	20.7	0.40	0.50	ug/L	20.0		103	82-125	0.145	25	
1,3-Dichloropropane	21.0	0.40	0.50	ug/L	20.0		105	83-120	2.07	25	
2,2-Dichloropropane	20.2	0.20	0.50	ug/L	20.0		101	80-125	9.72	25	
1,1-Dichloropropene	21.8	0.40	0.50	ug/L	20.0		109	85-130	0.229	25	
cis-1,3-Dichloropropene	20.4	0.40	0.50	ug/L	20.0		102	83-128	3.24	25	
trans-1,3-Dichloropropene	22.3	0.40	0.50	ug/L	20.0		111	67-129	7.40	25	
Diethyl ether	18.7	0.20	1.0	ug/L	20.0		93.6	70-130	2.79	25	
Di-isopropyl ether	20.7	0.40	0.50	ug/L	20.0		104	83-132	2.15	25	
Ethanol	932	50	50	ug/L	980		95.1	50-150	2.15	25	
Ethylbenzene	21.4	0.40	0.50	ug/L	20.0		107	84-124	1.16	25	
Ethyl methacrylate	22.5	0.70	10	ug/L	20.0		112	70-130	2.29	25	
Ethyl tert-butyl ether	25.3	0.40	0.50	ug/L	20.0		126	74-127	4.82	25	
Hexachloroethane	22.7	0.40	1.0	ug/L	20.0		114	70-130	6.59	25	
Hexachlorobutadiene	19.5	0.50	0.50	ug/L	20.0		97.3	75-135	2.39	25	
2-Hexanone	21.3	0.50	5.0	ug/L	20.0		107	70-130	1.80	30	
Isobutanol	2140	40	100	ug/L	2000		107	70-130	2.69	25	
Isopropylbenzene	21.7	0.40	0.50	ug/L	20.0		109	75-116	1.51	25	
p-Isopropyltoluene	22.5	0.40	0.50	ug/L	20.0		112	78-124	0.849	25	
Methylene chloride	19.2	0.50	0.50	ug/L	20.0		96.2	72-132	12.8	25	
Methacrylonitrile	19.7	0.40	1.0	ug/L	20.0		98.6	70-130	3.93	25	
Methyl ethyl ketone	41.4	0.70	1.0	ug/L	40.0		103	58-157	4.55	25	
Methyl iodide	20.8	0.40	2.0	ug/L	20.0		104	56-167	4.56	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 2018090103

Reported:
12/28/18 09:57

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 AL83983 - VOAs in Water GCMS

LCS Dup (AL83983-BSD1)

Prepared & Analyzed: 12/17/18

Methyl isobutyl ketone	42.7	0.60	1.0	ug/L	40.0		107	70-130	1.30	25	
Methyl methacrylate	21.8	0.40	1.0	ug/L	20.0		109	70-130	1.11	25	
Propionitrile	1020	20	50	ug/L	1000		102	70-130	6.20	25	
Naphthalene	21.3	0.50	0.50	ug/L	20.0		106	84-134	2.96	25	
Methyl tert-butyl ether	18.6	0.50	0.50	ug/L	20.0		93.2	84-119	3.50	25	
n-Propylbenzene	23.2	0.40	0.50	ug/L	20.0		116	75-127	0.562	25	
Styrene	20.5	0.40	0.50	ug/L	20.0		102	80-125	1.50	25	
Tert-amyl methyl ether	24.1	0.40	0.50	ug/L	20.0		121	74-120	4.32	25	QL-03
Tert-butyl alcohol	472	6.0	10	ug/L	400		118	66-147	0.0360	25	
1,1,1,2-Tetrachloroethane	20.8	0.40	0.50	ug/L	20.0		104	80-132	3.33	25	
1,1,2,2-Tetrachloroethane	21.1	0.30	0.50	ug/L	20.0		106	84-115	0.425	25	
Tetrachloroethene	20.2	0.40	0.50	ug/L	20.0		101	56-156	0.939	25	
Tetrahydrofuran	20.7	0.40	5.0	ug/L	20.0		103	70-130	2.20	25	
Toluene	21.1	0.30	0.30	ug/L	20.0		106	76-137	1.27	25	
1,2,4-Trichlorobenzene	21.7	0.20	0.50	ug/L	20.0		109	84-126	3.56	25	
1,2,3-Trichlorobenzene	22.0	0.50	0.50	ug/L	20.0		110	85-133	2.95	25	
1,1,1-Trichloroethane	25.7	0.40	0.50	ug/L	20.0		128	70-130	3.93	25	
1,1,2-Trichloroethane	21.2	0.40	0.50	ug/L	20.0		106	83-122	0.939	25	
Trichloroethene	22.0	0.40	0.50	ug/L	20.0		110	84-123	2.07	25	
Trichlorofluoromethane	21.0	0.20	0.50	ug/L	20.0		105	74-130	4.61	25	
1,2,3-Trichloropropane	21.5	0.40	0.50	ug/L	20.0		107	78-122	0.972	25	
Trichlorotrifluoroethane	19.3	0.50	0.50	ug/L	20.0		96.3	82-125	0.415	25	
1,2,4-Trimethylbenzene	22.7	0.40	0.50	ug/L	20.0		113	85-127	0.00	25	
1,3,5-Trimethylbenzene	19.7	0.30	0.50	ug/L	20.0		98.7	80-125	0.757	25	
Vinyl acetate	33.5	0.80	1.0	ug/L	40.0		83.7	60-140	10.4	25	
Vinyl chloride	23.6	0.40	0.50	ug/L	20.0		118	70-130	3.16	25	
m,p-Xylene	43.1	0.50	0.50	ug/L	40.0		108	81-124	0.624	25	
o-Xylene	21.3	0.40	0.50	ug/L	20.0		106	80-126	1.68	25	
Xylenes (total)	64.4	0.50	0.50	ug/L	60.0		107	81-126	0.973	25	
Surrogate: Bromofluorobenzene	28.1			ug/L	25.0		112	70-130			
Surrogate: Dibromofluoromethane	26.1			ug/L	25.0		104	70-130			
Surrogate: Toluene-d8	27.0			ug/L	25.0		108	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 2018090103

Reported:
12/28/18 09:57

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 AL83983 - VOAs in Water GCMS

Matrix Spike (AL83983-MS1)	Source: 18L1868-01		Prepared: 12/17/18		Analyzed: 12/18/18		QM-05	
Acetone	81.6	3.0	5.0	ug/L	80.0	ND	102	32-164
Acetonitrile	2340	50	100	ug/L	2000	ND	117	70-130
Allyl chloride	22.8	0.40	10	ug/L	20.0	ND	114	70-130
Acrylonitrile	25.2	0.40	5.0	ug/L	20.0	ND	126	70-130
Benzene	21.4	0.30	0.30	ug/L	20.0	ND	107	58-139
Bromobenzene	20.7	0.40	0.50	ug/L	20.0	ND	103	63-143
Bromochloromethane	20.9	0.40	0.50	ug/L	20.0	ND	105	60-141
Bromodichloromethane	18.8	0.40	0.50	ug/L	20.0	ND	94.0	62-140
Bromoform	20.2	0.30	0.50	ug/L	20.0	ND	101	47-165
Bromomethane	17.0	0.40	0.50	ug/L	20.0	ND	85.0	30-163
n-Butylbenzene	17.8	0.40	0.50	ug/L	20.0	ND	88.8	57-147
sec-Butylbenzene	18.4	0.40	0.50	ug/L	20.0	ND	92.2	64-155
tert-Butylbenzene	20.1	0.30	0.50	ug/L	20.0	ND	100	57-150
Carbon disulfide	21.2	0.40	5.0	ug/L	20.0	ND	106	70-130
Carbon tetrachloride	20.8	0.40	0.50	ug/L	20.0	ND	104	65-153
Chlorobenzene	20.3	0.30	0.50	ug/L	20.0	ND	102	58-137
Chloroethane	22.8	0.40	0.50	ug/L	20.0	ND	114	59-141
Chloroform	21.0	0.40	0.50	ug/L	20.0	ND	105	36-151
Chloromethane	22.2	0.40	0.50	ug/L	20.0	ND	111	69-149
Chloroprene	23.8	0.40	1.0	ug/L	20.0	ND	119	70-130
2-Chlorotoluene	20.4	0.40	0.50	ug/L	20.0	ND	102	54-150
4-Chlorotoluene	20.4	0.30	0.50	ug/L	20.0	ND	102	59-140
Dibromochloromethane	19.2	0.40	0.50	ug/L	20.0	ND	96.0	54-157
1,2-Dibromo-3-chloropropane	28.7	0.60	2.0	ug/L	20.0	ND	144	54-137
1,2-Dibromoethane (EDB)	21.3	0.40	0.50	ug/L	20.0	ND	107	40-147
Dibromomethane	20.3	0.40	0.50	ug/L	20.0	ND	102	59-139
1,2-Dichlorobenzene	19.7	0.40	0.50	ug/L	20.0	ND	98.3	39-145
1,3-Dichlorobenzene	18.9	0.40	0.50	ug/L	20.0	ND	94.4	54-137
1,4-Dichlorobenzene	18.6	0.10	0.50	ug/L	20.0	ND	93.2	41-142
trans-1,4-Dichloro-2-butene	26.2	0.50	5.0	ug/L	20.0	ND	131	70-130
Dichlorodifluoromethane	25.2	0.40	0.50	ug/L	20.0	ND	126	39-162
1,1-Dichloroethane	21.8	0.10	0.50	ug/L	20.0	ND	109	39-146
1,2-Dichloroethane	20.2	0.40	0.50	ug/L	20.0	ND	101	58-133
1,1-Dichloroethene	22.9	0.30	0.50	ug/L	20.0	ND	114	70-154

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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 2018090103

Reported:
12/28/18 09:57

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 AL83983 - VOAs in Water GCMS

Matrix Spike (AL83983-MS1)	Source: 18L1868-01	Prepared: 12/17/18	Analyzed: 12/18/18	QM-05			
cis-1,2-Dichloroethene	20.4	0.40	0.50 ug/L	20.0	ND	102	66-141
trans-1,2-Dichloroethene	20.5	0.40	0.50 ug/L	20.0	ND	102	59-151
1,2-Dichloropropane	20.9	0.40	0.50 ug/L	20.0	ND	104	41-142
1,3-Dichloropropane	21.8	0.40	0.50 ug/L	20.0	ND	109	62-139
2,2-Dichloropropane	18.9	0.20	0.50 ug/L	20.0	ND	94.4	40-167
1,1-Dichloropropene	23.8	0.40	0.50 ug/L	20.0	ND	119	58-148
cis-1,3-Dichloropropene	19.2	0.40	0.50 ug/L	20.0	ND	96.2	50-140
trans-1,3-Dichloropropene	20.1	0.40	0.50 ug/L	20.0	ND	101	40-144
Diethyl ether	19.9	0.20	1.0 ug/L	20.0	ND	99.7	70-130
Di-isopropyl ether	21.8	0.40	0.50 ug/L	20.0	ND	109	49-143
Ethanol	1160	50	50 ug/L	980	ND	119	50-150
Ethyl methacrylate	23.7	0.70	10 ug/L	20.0	ND	118	70-130
Ethylbenzene	21.9	0.40	0.50 ug/L	20.0	ND	109	59-147
Ethyl tert-butyl ether	23.8	0.40	0.50 ug/L	20.0	ND	119	44-143
Hexachlorobutadiene	12.2	0.50	0.50 ug/L	20.0	ND	61.2	56-149
Hexachloroethane	19.0	0.40	1.0 ug/L	20.0	ND	95.0	70-130
2-Hexanone	32.7	0.50	5.0 ug/L	20.0	ND	163	70-130
Isobutanol	3140	40	100 ug/L	2000	ND	157	70-130
Isopropylbenzene	21.6	0.40	0.50 ug/L	20.0	ND	108	56-134
p-Isopropyltoluene	19.1	0.40	0.50 ug/L	20.0	ND	95.5	54-148
Methacrylonitrile	22.6	0.40	1.0 ug/L	20.0	ND	113	70-130
Methylene chloride	21.4	0.50	0.50 ug/L	20.0	ND	107	43-143
Methyl ethyl ketone	55.3	0.70	1.0 ug/L	40.0	ND	138	62-126
Methyl iodide	21.2	0.40	2.0 ug/L	20.0	ND	106	70-130
Methyl isobutyl ketone	60.0	0.60	1.0 ug/L	40.0	ND	150	66-127
Methyl methacrylate	25.0	0.40	1.0 ug/L	20.0	ND	125	70-130
Naphthalene	24.0	0.50	0.50 ug/L	20.0	ND	120	52-157
Propionitrile	1190	20	50 ug/L	1000	ND	119	70-130
Methyl tert-butyl ether	17.2	0.50	0.50 ug/L	20.0	ND	86.2	55-144
n-Propylbenzene	21.9	0.40	0.50 ug/L	20.0	ND	109	55-145
Styrene	20.4	0.40	0.50 ug/L	20.0	ND	102	51-157
Tert-amyl methyl ether	21.3	0.40	0.50 ug/L	20.0	ND	107	41-136
Tert-butyl alcohol	832	6.0	10 ug/L	400	ND	208	38-175
1,1,1,2-Tetrachloroethane	19.5	0.40	0.50 ug/L	20.0	ND	97.3	58-146
1,1,2,2-Tetrachloroethane	24.9	0.30	0.50 ug/L	20.0	ND	124	73-127

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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 2018090103

Reported:
12/28/18 09:57

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 AL83983 - VOAs in Water GCMS

Matrix Spike (AL83983-MS1) Source: **18L1868-01** Prepared: 12/17/18 Analyzed: 12/18/18 **QM-05**

Tetrachloroethene	20.8	0.40	0.50	ug/L	20.0	ND	104	49-148			
Tetrahydrofuran	25.8	0.40	5.0	ug/L	20.0	ND	129	70-130			
Toluene	22.0	0.30	0.30	ug/L	20.0	ND	110	59-147			
1,2,4-Trichlorobenzene	17.2	0.20	0.50	ug/L	20.0	ND	86.2	50-150			
1,2,3-Trichlorobenzene	19.5	0.50	0.50	ug/L	20.0	ND	97.6	50-161			
1,1,1-Trichloroethane	25.3	0.40	0.50	ug/L	20.0	ND	126	38-164			
1,1,2-Trichloroethane	21.8	0.40	0.50	ug/L	20.0	ND	109	46-136			
Trichloroethene	21.5	0.40	0.50	ug/L	20.0	ND	108	58-140			
Trichlorofluoromethane	23.1	0.20	0.50	ug/L	20.0	ND	116	56-144			
1,2,3-Trichloropropane	25.0	0.40	0.50	ug/L	20.0	ND	125	61-139			
Trichlorotrifluoroethane	21.9	0.50	0.50	ug/L	20.0	ND	109	59-139			
1,2,4-Trimethylbenzene	21.0	0.40	0.50	ug/L	20.0	ND	105	58-152			
1,3,5-Trimethylbenzene	18.2	0.30	0.50	ug/L	20.0	ND	91.0	58-148			
Vinyl acetate	48.2	0.80	1.0	ug/L	40.0	ND	120	70-130			
Vinyl chloride	24.8	0.40	0.50	ug/L	20.0	ND	124	53-160			
m,p-Xylene	43.6	0.50	0.50	ug/L	40.0	ND	109	53-147			
o-Xylene	21.6	0.40	0.50	ug/L	20.0	ND	108	55-148			
Xylenes (total)	65.2	0.50	0.50	ug/L	60.0	ND	109	49-153			
Surrogate: Bromofluorobenzene	28.1			ug/L	25.0		112	70-130			
Surrogate: Dibromofluoromethane	26.0			ug/L	25.0		104	70-130			
Surrogate: Toluene-d8	27.3			ug/L	25.0		109	70-130			

Matrix Spike (AL83983-MS2) Source: **18L1869-01** Prepared: 12/17/18 Analyzed: 12/18/18

Acetone	69.6	3.0	5.0	ug/L	80.0	ND	87.0	32-164			
Acetonitrile	2310	50	100	ug/L	2000	ND	116	70-130			
Allyl chloride	23.0	0.40	10	ug/L	20.0	ND	115	70-130			
Acrylonitrile	20.0	0.40	5.0	ug/L	20.0	ND	100	70-130			
Benzene	18.6	0.30	0.30	ug/L	20.0	ND	92.8	58-139			
Bromobenzene	17.4	0.40	0.50	ug/L	20.0	ND	87.0	63-143			
Bromochloromethane	17.8	0.40	0.50	ug/L	20.0	ND	88.8	60-141			
Bromodichloromethane	16.6	0.40	0.50	ug/L	20.0	ND	83.2	62-140			
Bromoform	17.5	0.30	0.50	ug/L	20.0	ND	87.6	47-165			
Bromomethane	14.5	0.40	0.50	ug/L	20.0	ND	72.4	30-163			
n-Butylbenzene	19.0	0.40	0.50	ug/L	20.0	ND	95.0	57-147			
sec-Butylbenzene	18.6	0.40	0.50	ug/L	20.0	ND	93.0	64-155			

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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 2018090103

Reported:
12/28/18 09:57

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 AL83983 - VOAs in Water GCMS

Matrix Spike (AL83983-MS2)

Source: 18L1869-01

Prepared: 12/17/18 Analyzed: 12/18/18

tert-Butylbenzene	19.3	0.30	0.50	ug/L	20.0	ND	96.4	57-150			
Carbon disulfide	20.8	0.40	5.0	ug/L	20.0	ND	104	70-130			
Carbon tetrachloride	19.9	0.40	0.50	ug/L	20.0	ND	99.4	65-153			
Chlorobenzene	17.4	0.30	0.50	ug/L	20.0	ND	87.2	58-137			
Chloroethane	21.7	0.40	0.50	ug/L	20.0	ND	109	59-141			
Chloroform	18.6	0.40	0.50	ug/L	20.0	ND	93.1	36-151			
Chloromethane	19.6	0.40	0.50	ug/L	20.0	ND	98.2	69-149			
Chloroprene	20.9	0.40	1.0	ug/L	20.0	ND	104	70-130			
2-Chlorotoluene	18.0	0.40	0.50	ug/L	20.0	ND	89.8	54-150			
4-Chlorotoluene	17.9	0.30	0.50	ug/L	20.0	ND	89.6	59-140			
Dibromochloromethane	16.3	0.40	0.50	ug/L	20.0	ND	81.6	54-157			
1,2-Dibromo-3-chloropropane	19.6	0.60	2.0	ug/L	20.0	ND	98.0	54-137			
1,2-Dibromoethane (EDB)	17.2	0.40	0.50	ug/L	20.0	ND	86.0	40-147			
Dibromomethane	17.5	0.40	0.50	ug/L	20.0	ND	87.6	59-139			
1,2-Dichlorobenzene	17.1	0.40	0.50	ug/L	20.0	ND	85.6	39-145			
1,3-Dichlorobenzene	16.9	0.40	0.50	ug/L	20.0	ND	84.4	54-137			
1,4-Dichlorobenzene	16.4	0.10	0.50	ug/L	20.0	ND	82.0	41-142			
trans-1,4-Dichloro-2-butene	18.3	0.50	5.0	ug/L	20.0	ND	91.3	70-130			
Dichlorodifluoromethane	22.4	0.40	0.50	ug/L	20.0	ND	112	39-162			
1,1-Dichloroethane	19.2	0.10	0.50	ug/L	20.0	ND	95.8	39-146			
1,2-Dichloroethane	16.8	0.40	0.50	ug/L	20.0	ND	84.2	58-133			
1,1-Dichloroethene	19.7	0.30	0.50	ug/L	20.0	ND	98.4	70-154			
cis-1,2-Dichloroethene	17.6	0.40	0.50	ug/L	20.0	ND	87.8	66-141			
trans-1,2-Dichloroethene	18.8	0.40	0.50	ug/L	20.0	ND	94.2	59-151			
1,2-Dichloropropane	17.9	0.40	0.50	ug/L	20.0	ND	89.4	41-142			
1,3-Dichloropropane	17.9	0.40	0.50	ug/L	20.0	ND	89.6	62-139			
2,2-Dichloropropane	19.6	0.20	0.50	ug/L	20.0	ND	97.8	40-167			
1,1-Dichloropropene	21.1	0.40	0.50	ug/L	20.0	ND	105	58-148			
cis-1,3-Dichloropropene	15.7	0.40	0.50	ug/L	20.0	ND	78.6	50-140			
trans-1,3-Dichloropropene	17.2	0.40	0.50	ug/L	20.0	ND	86.0	40-144			
Diethyl ether	16.3	0.20	1.0	ug/L	20.0	ND	81.6	70-130			
Di-isopropyl ether	18.2	0.40	0.50	ug/L	20.0	ND	91.2	49-143			
Ethyl methacrylate	19.0	0.70	10	ug/L	20.0	ND	94.8	70-130			
Ethylbenzene	19.2	0.40	0.50	ug/L	20.0	ND	95.8	59-147			

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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 2018090103

Reported:
12/28/18 09:57

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 AL83983 - VOAs in Water GCMS

Matrix Spike (AL83983-MS2)

Source: 18L1869-01

Prepared: 12/17/18 Analyzed: 12/18/18

Ethanol	1270	50	50	ug/L	980	ND	129	50-150			
Ethyl tert-butyl ether	20.0	0.40	0.50	ug/L	20.0	ND	99.8	44-143			
Hexachloroethane	18.8	0.40	1.0	ug/L	20.0	ND	94.2	70-130			
Hexachlorobutadiene	15.8	0.50	0.50	ug/L	20.0	ND	79.2	56-149			
2-Hexanone	18.4	0.50	5.0	ug/L	20.0	ND	91.9	70-130			
Isopropylbenzene	19.5	0.40	0.50	ug/L	20.0	ND	97.6	56-134			
Isobutanol	2310	40	100	ug/L	2000	ND	116	70-130			
p-Isopropyltoluene	19.5	0.40	0.50	ug/L	20.0	ND	97.4	54-148			
Methylene chloride	16.5	0.50	0.50	ug/L	20.0	ND	82.7	43-143			
Methacrylonitrile	17.6	0.40	1.0	ug/L	20.0	ND	88.0	70-130			
Methyl ethyl ketone	39.0	0.70	1.0	ug/L	40.0	ND	97.6	62-126			
Methyl iodide	16.7	0.40	2.0	ug/L	20.0	ND	83.6	70-130			
Methyl isobutyl ketone	35.8	0.60	1.0	ug/L	40.0	ND	89.6	66-127			
Methyl methacrylate	18.9	0.40	1.0	ug/L	20.0	ND	94.6	70-130			
Propionitrile	1020	20	50	ug/L	1000	ND	102	70-130			
Methyl tert-butyl ether	14.7	0.50	0.50	ug/L	20.0	ND	73.4	55-144			
Naphthalene	17.9	0.50	0.50	ug/L	20.0	ND	89.4	52-157			
n-Propylbenzene	20.3	0.40	0.50	ug/L	20.0	ND	102	55-145			
Styrene	17.3	0.40	0.50	ug/L	20.0	ND	86.4	51-157			
Tert-amyl methyl ether	18.0	0.40	0.50	ug/L	20.0	ND	89.8	41-136			
Tert-butyl alcohol	552	6.0	10	ug/L	400	ND	138	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	19.2	0.30	0.50	ug/L	20.0	ND	96.1	73-127			
Tetrachloroethene	18.5	0.40	0.50	ug/L	20.0	ND	92.7	49-148			
Tetrahydrofuran	18.1	0.40	5.0	ug/L	20.0	ND	90.4	70-130			
Toluene	19.1	0.30	0.30	ug/L	20.0	ND	95.4	59-147			
1,2,3-Trichlorobenzene	17.9	0.50	0.50	ug/L	20.0	ND	89.7	50-161			
1,2,4-Trichlorobenzene	16.9	0.20	0.50	ug/L	20.0	ND	84.7	50-150			
1,1,1-Trichloroethane	23.6	0.40	0.50	ug/L	20.0	ND	118	38-164			
1,1,2-Trichloroethane	17.9	0.40	0.50	ug/L	20.0	ND	89.6	46-136			
Trichloroethene	19.4	0.40	0.50	ug/L	20.0	ND	96.8	58-140			
Trichlorofluoromethane	21.4	0.20	0.50	ug/L	20.0	ND	107	56-144			
1,2,3-Trichloropropane	18.3	0.40	0.50	ug/L	20.0	ND	91.4	61-139			
Trichlorotrifluoroethane	19.3	0.50	0.50	ug/L	20.0	ND	96.5	59-139			
1,2,4-Trimethylbenzene	19.4	0.40	0.50	ug/L	20.0	ND	97.0	58-152			

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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 2018090103

Reported:
12/28/18 09:57

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	MDL	Reporting		Spike Level	Source		%REC		RPD		Notes
			Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch AL83983 - VOAs in Water GCMS

Matrix Spike (AL83983-MS2)

Source: 18L1869-01

Prepared: 12/17/18 Analyzed: 12/18/18

1,3,5-Trimethylbenzene	17.0	0.30	0.50	ug/L	20.0	ND	84.9	58-148			
Vinyl acetate	39.2	0.80	1.0	ug/L	40.0	ND	97.9	70-130			
Vinyl chloride	23.5	0.40	0.50	ug/L	20.0	ND	118	53-160			
m,p-Xylene	37.9	0.50	0.50	ug/L	40.0	ND	94.8	53-147			
o-Xylene	18.6	0.40	0.50	ug/L	20.0	ND	93.0	55-148			
Xylenes (total)	56.5	0.50	0.50	ug/L	60.0	ND	94.2	49-153			
Surrogate: Bromofluorobenzene	27.9			ug/L	25.0		112	70-130			
Surrogate: Dibromofluoromethane	26.3			ug/L	25.0		105	70-130			
Surrogate: Toluene-d8	27.2			ug/L	25.0		109	70-130			



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Project Manager: Quality Control Manager
Project: QC- 40ml Amber VOA- HCl
Project Number: Silicone Batch Number 2018090103

Reported:
12/28/18 09:57

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



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Chain of Custody Record

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

Lab No. 18L1887 Page of

Report to:		Invoice to (if different):		Project Info for Report:					Signature below authorizes work under terms stated on reverse side.																
Company:		Company:		Project ID:					Analyses Requested										TAT	Lab Approval Required For Rush TATs	Sample Notes (lab use only)				
Sample Traps LLC				QC- 40ml Amber VOA Vial (HCL)					8260 Sample Traps 524.2 Sample Traps j-flags include chromatograph with report										10 days <input type="radio"/>		Temperature:				
Attn:		Attn:		Project No:															RUSH:	5 days <input type="radio"/>	deg. C				
Quality Control Manager				Silicone Batch Number 2018090103															48 hours <input type="radio"/>	Shipment Method:					
Address:		Address:		PO/Reference :															Other: days <input type="radio"/>	Custody Seals: Y / N					
Phone/Fax:		Phone/Fax:							Total Number of Containers																
Email Address:		Email Address:																							
admin@sampletraps.com																									
Samplers Signature:				Container:		Preservative:		Matrix:												Sample Notes or CDPH Source Numbers:					
Print:				40ml VOA		Poly		Glass bottle		Glass Jar		HCL		Methanol		Na Bisulfate		Other			None		Water		Container
Sample Identification		Sampled:																							
		Date		Time																					
A8337CVBS - 01		12/17				x						x													
A8337CVBS - 02		12/17				x						x													
please use Ukiah reagent water for the analysis																									
Relinquished by:		Received by:				Date:		Time:		CDPH Write On EDT Transmission? <input type="radio"/> Yes <input type="radio"/> No															
Per BAL		[Signature]				12-17-18		8730		State System Number: _____															
If "Y" please enter the Source Number(s) in the column above																									
CA Geotracker EDF Report? <input type="radio"/> Yes <input type="radio"/> No																									
Global ID:										Sampling Company Log Code:															
EDF to (Email Address):																									
Travel and Site Time:										Mileage:					Misc. Supplies:										