

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV121118\
 Data File : VV008895.D
 Acq On : 11 Dec 2018 13:04
 Operator : SY/MD
 Sample : MDL03
 Misc : 5.00g/10.0 mL/MSVOA V/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Manual Integrations
 APPROVED

sam
 12/12/2018 11:26:50 AM

Quant Time: Dec 12 05:50:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
 Quant Title : VOC Analysis
 QLast Update : Wed Dec 12 04:31:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	253662	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	228590	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	90998	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	63894	24.34	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	97.36%
7) Chloroethane-d5	1.58	69	57732	29.77	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	119.08%
10) 1,1-Dichloroethene-d2	2.13	63	123070	18.75	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	75.00%
20) 2-Butanone-d5	3.94	46	45585	47.70	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	95.40%
24) Chloroform-d	4.40	84	141755	23.25	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	93.00%
26) 1,2-Dichloroethane-d4	5.08	65	84170	25.29	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	101.16%
29) Benzene-d6	5.10	84	299805	23.48	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	93.92%
33) 1,2-Dichloropropane-d6	6.12	67	85444	23.91	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	95.64%
37) Toluene-d8	7.36	98	272386	23.05	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	92.20%
38) trans-1,3-Dichloropropene-	7.66	79	37299	23.75	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	95.00%
39) 2-Hexanone-d5	8.14	63	28372	43.33	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	86.66%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	65296	21.78	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	87.12%
61) 1,2-Dichlorobenzene-d4	11.68	152	81716	23.93	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	95.72%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	4358	1.048 ug/L	99
3) Chloromethane	1.25	50	2945	1.031 ug/L	94
5) Vinyl chloride	1.32	62	2956	0.927 ug/L #	46
6) Bromomethane	1.53	94	1917	1.250 ug/L	95
8) Chloroethane	1.60	64	2272	1.272 ug/L	89
9) Trichlorofluoromethane	1.77	101	5773	1.057 ug/L	95
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	4321	1.153 ug/L #	81
12) 1,1-Dichloroethene	2.14	96	4081	1.248 ug/L #	1
13) Acetone	2.20	43	3021	2.146 ug/L	99
14) Carbon disulfide	2.32	76	9354	0.891 ug/L	98
15) Methyl Acetate	2.47	43	1580	0.885 ug/L	97
16) Methylene chloride	2.53	84	11003	2.576 ug/L	90
17) Methyl tert-butyl Ether	2.80	73	6905	0.930 ug/L #	89
18) trans-1,2-Dichloroethene	2.79	96	3222	0.912 ug/L	92
19) 1,1-Dichloroethane	3.24	63	4777	0.834 ug/L	96
21) 2-Butanone	4.03	43	2013m	1.525 ug/L	
22) cis-1,2-Dichloroethene	3.96	96	3352	0.910 ug/L	87

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.31	128	1546	0.890	ug/L #	77
25) Chloroform	4.42	83	7994	1.300	ug/L	100
27) 1,2-Dichloroethane	5.18	62	4065	0.971	ug/L	97
30) Cyclohexane	4.72	56	4600	0.799	ug/L #	91
31) 1,1,1-Trichloroethane	4.66	97	5300	0.899	ug/L	98
32) Carbon tetrachloride	4.88	117	4387	0.815	ug/L	100
34) Benzene	5.15	78	11396	0.832	ug/L	100
35) Trichloroethene	5.96	95	4085	0.989	ug/L	97
36) Methylcyclohexane	6.18	83	5809	0.882	ug/L	98
40) 1,2-Dichloropropane	6.23	63	3093	0.941	ug/L #	93
41) Bromodichloromethane	6.56	83	3728	0.861	ug/L	99
42) cis-1,3-Dichloropropene	7.07	75	4434	0.921	ug/L	99
43) 4-Methyl-2-pentanone	7.28	43	4709	2.120	ug/L #	90
44) Toluene	7.43	91	13618	0.948	ug/L	100
45) trans-1,3-Dichloropropene	7.69	75	3750	0.894	ug/L	97
46) 1,1,2-Trichloroethane	7.89	97	2422	0.884	ug/L	88
47) Tetrachloroethene	8.02	164	3086	0.919	ug/L	90
49) 2-Hexanone	8.19	43	5097m	2.773	ug/L	
50) Dibromochloromethane	8.29	129	2903	0.925	ug/L	91
51) 1,2-Dibromoethane	8.40	107	2341	0.851	ug/L #	98
52) Chlorobenzene	8.93	112	8481	0.907	ug/L	92
53) Ethylbenzene	9.06	91	13540	0.869	ug/L	98
54) m,p-Xylene	9.18	106	4911	0.832	ug/L	99
55) o-xylene	9.59	106	4464	0.814	ug/L	98
56) Styrene	9.61	104	6811	0.770	ug/L	94
57) Isopropylbenzene	9.98	105	12322	0.827	ug/L	98
58) 1,1,1,2,2-Tetrachloroethane	10.29	83	2727	0.921	ug/L #	94
59) 1,2,3-Trichloropropane	10.32	75	2281	0.890	ug/L	97
62) Bromoform	9.78	173	1350	0.822	ug/L #	96
63) 1,3-Dichlorobenzene	11.23	146	5620	0.958	ug/L	93
64) 1,4-Dichlorobenzene	11.32	146	6309	1.046	ug/L	95
65) 1,2-Dichlorobenzene	11.69	146	5331	0.986	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.48	75	408m	0.921	ug/L	
67) 1,3,5-Trichlorobenzene	12.70	180	3467	0.819	ug/L	93
68) 1,2,4-trichlorobenzene	13.32	180	2121	0.715	ug/L #	70
69) Naphthalene	13.56	128	2946	0.576	ug/L #	93
70) 1,2,3-Trichlorobenzene	13.80	180	1951	0.712	ug/L #	85

(#) = qualifier out of range (m) = manual integration (+) = signals summed

