

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100419\
 Data File : VD063888.D
 Acq On : 04 Oct 2019 16:44
 Operator : VA/SY
 Sample : K5111-01 2.5PPB LOD
 Misc : 5.00g/5.00mL/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

Manual Integrations
 APPROVED

MMDadoda
 10/8/2019 3:11:58 PM

Quant Time: Oct 05 03:45:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100219S.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 04 01:55:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	175731	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	297240	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	285503	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	142293	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	91491	53.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.96%	
35) Dibromofluoromethane	7.92	113	89948	49.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.04%	
50) Toluene-d8	10.34	98	373792	50.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.40%	
62) 4-Bromofluorobenzene	12.63	95	117378	45.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.62%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.98	85	3269	2.623	ug/l #	53
3) Chloromethane	2.21	50	12173	3.189	ug/l #	86
4) Vinyl Chloride	2.35	62	10742	2.667	ug/l	95
5) Bromomethane	2.78	94	6787	2.621	ug/l #	63
6) Chloroethane	2.93	64	7683	2.884	ug/l	94
7) Trichlorofluoromethane	3.27	101	14421	2.708	ug/l	93
8) Diethyl Ether	3.71	74	2918	3.414	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	4.09	101	4334	2.940	ug/l #	60
10) Methyl Iodide	4.28	142	4270	2.102	ug/l #	45
11) Tert butyl alcohol	5.24	59	1526m	12.575	ug/l	
12) 1,1-Dichloroethene	4.06	96	4545	3.086	ug/l #	52
13) Acrolein	3.93	56	1916m	12.539	ug/l	
14) Allyl chloride	4.71	41	6789	2.773	ug/l	93
15) Acrylonitrile	5.43	53	5998	15.916	ug/l #	86
16) Acetone	4.16	43	7379	16.566	ug/l	99
17) Carbon Disulfide	4.39	76	12835	2.397	ug/l #	90
18) Methyl Acetate	4.73	43	2829m	3.247	ug/l	
19) Methyl tert-butyl Ether	5.49	73	9332	2.447	ug/l	97
20) Methylene Chloride	4.96	84	12475	5.457	ug/l #	90
21) trans-1,2-Dichloroethene	5.46	96	5073	2.767	ug/l #	65
22) Diisopropyl ether	6.36	45	12291	2.458	ug/l #	67
23) Vinyl Acetate	6.30	43	35751m	12.018	ug/l	
24) 1,1-Dichloroethane	6.26	63	7746	2.515	ug/l #	90
25) 2-Butanone	7.22	43	7614	14.424	ug/l	94
26) 2,2-Dichloropropane	7.20	77	9006	3.232	ug/l #	70
27) cis-1,2-Dichloroethene	7.21	96	5891	2.839	ug/l	90
28) Bromochloromethane	7.55	49	3744	3.244	ug/l #	76
29) Tetrahydrofuran	7.57	42	4610	14.962	ug/l #	87
30) Chloroform	7.71	83	9538	2.851	ug/l #	78
31) Cyclohexane	7.98	56	10960	3.795	ug/l #	58
32) 1,1,1-Trichloroethane	7.90	97	6930	2.415	ug/l #	37
36) 1,1-Dichloropropene	8.11	75	6645	2.445	ug/l	95
37) Ethyl Acetate	7.30	43	3672	2.977	ug/l #	78
38) Carbon Tetrachloride	8.10	117	6971	2.538	ug/l #	82

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

39) Methylcyclohexane	9.36	83	9162	2.742	ug/l #	75
40) Benzene	8.35	78	19248	2.471	ug/l #	81
41) Methacrylonitrile	7.54	41	2132m	3.384	ug/l	
42) 1,2-Dichloroethane	8.43	62	5364	2.381	ug/l	96
43) Isopropyl Acetate	8.46	43	5756	2.525	ug/l #	61
44) Trichloroethene	9.11	130	5590	2.489	ug/l	95
45) 1,2-Dichloropropane	9.40	63	4774	2.504	ug/l #	71
46) Dibromomethane	9.48	93	2197m	2.024	ug/l	
47) Bromodichloromethane	9.66	83	6620	2.368	ug/l	90
48) Methyl methacrylate	9.46	41	2531	2.318	ug/l #	78
49) 1,4-Dioxane	9.46	88	206	13.901	ug/l #	1
51) 4-Methyl-2-Pentanone	10.23	43	14497	12.264	ug/l	93
52) Toluene	10.40	92	12356	2.311	ug/l	92
53) t-1,3-Dichloropropene	10.62	75	5786	2.121	ug/l #	85
54) cis-1,3-Dichloropropene	10.09	75	7357	2.343	ug/l	93
55) 1,1,2-Trichloroethane	10.80	97	3936	2.568	ug/l #	70
56) Ethyl methacrylate	10.66	69	4326	2.229	ug/l #	79
57) 1,3-Dichloropropane	10.94	76	6019	2.295	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.94	63	8914	10.683	ug/l	94
59) 2-Hexanone	10.99	43	9828	11.494	ug/l	97
60) Dibromochloromethane	11.14	129	4698	2.354	ug/l	84
61) 1,2-Dibromoethane	11.24	107	3815	2.567	ug/l	97
64) Tetrachloroethene	10.87	164	4033	2.069	ug/l #	78
65) Chlorobenzene	11.67	112	13810	2.409	ug/l	92
66) 1,1,1,2-Tetrachloroethane	11.74	131	4656	2.204	ug/l	93
67) Ethyl Benzene	11.74	91	24430	2.363	ug/l	100
68) m/p-Xylenes	11.85	106	17947	4.497	ug/l	96
69) o-Xylene	12.17	106	8089	2.117	ug/l	98
70) Styrene	12.20	104	14085	2.177	ug/l	98
71) Bromoform	12.35	173	2183	1.925	ug/l #	89
73) Isopropylbenzene	12.48	105	22199	2.321	ug/l	94
74) N-amyl acetate	12.29	43	5051	2.453	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.73	83	4116	2.473	ug/l #	92
76) 1,2,3-Trichloropropane	12.78	75	2027m	2.127	ug/l	
77) Bromobenzene	12.76	156	5034	2.112	ug/l	68
78) n-propylbenzene	12.82	91	26525	2.362	ug/l	100
79) 2-Chlorotoluene	12.91	91	14589	2.356	ug/l	95
80) 1,3,5-Trimethylbenzene	12.96	105	17536	2.197	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.53	75	1303m	2.419	ug/l	
82) 4-Chlorotoluene	13.01	91	14723	2.242	ug/l	99
83) tert-Butylbenzene	13.23	119	14728	2.074	ug/l	91
84) 1,2,4-Trimethylbenzene	13.27	105	16982	2.064	ug/l	96
85) sec-Butylbenzene	13.40	105	23146	2.413	ug/l	99
86) p-Isopropyltoluene	13.51	119	19537	2.153	ug/l	96
87) 1,3-Dichlorobenzene	13.52	146	10563	2.243	ug/l	94
88) 1,4-Dichlorobenzene	13.60	146	11734	2.526	ug/l	85
89) n-Butylbenzene	13.84	91	19200	2.273	ug/l	95
90) Hexachloroethane	14.11	117	4138	2.535	ug/l	79
91) 1,2-Dichlorobenzene	13.89	146	8482	2.090	ug/l	84
92) 1,2-Dibromo-3-Chloropropan	14.51	75	518	1.799	ug/l	77

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.16	180	7332	2.342	ug/l	97
94) Hexachlorobutadiene	15.26	225	3745	2.167	ug/l	87
95) Naphthalene	15.40	128	11246	2.137	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.59	180	6545	2.423	ug/l	97

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

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