

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100419\
 Data File : VD063889.D
 Acq On : 04 Oct 2019 17:11
 Operator : VA/SY
 Sample : K5111-01 4PPB LOD
 Misc : 5.00g/5.00mL/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 10/8/2019 3:11:38 PM

Quant Time: Oct 05 03:47:54 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	7.99	168	184950	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	305193	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	289925	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	146674	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	92716	51.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.98%	
35) Dibromofluoromethane	7.91	113	90804	48.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.38%	
50) Toluene-d8	10.34	98	376122	49.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.36%	
62) 4-Bromofluorobenzene	12.63	95	121848	46.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.64%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.99	85	5889	4.490 ug/l #	48
3) Chloromethane	2.21	50	17995	4.480 ug/l	96
4) Vinyl Chloride	2.35	62	17929	4.229 ug/l	100
5) Bromomethane	2.77	94	11697	4.292 ug/l	88
6) Chloroethane	2.93	64	12609	4.498 ug/l	93
7) Trichlorofluoromethane	3.27	101	25850	4.612 ug/l	86
8) Diethyl Ether	3.70	74	4302m	4.782 ug/l	
9) 1,1,2-Trichlorotrifluoroet	4.09	101	7159	4.614 ug/l #	91
10) Methyl Iodide	4.29	142	8436	3.946 ug/l	94
11) Tert butyl alcohol	5.24	59	2712m	21.234 ug/l	
12) 1,1-Dichloroethene	4.07	96	7336	4.733 ug/l #	79
13) Acrolein	3.92	56	3631	22.578 ug/l	87
14) Allyl chloride	4.71	41	10355	4.018 ug/l #	92
15) Acrylonitrile	5.44	53	8146	20.538 ug/l #	79
16) Acetone	4.17	43	10280	21.928 ug/l #	82
17) Carbon Disulfide	4.39	76	22596	4.010 ug/l #	81
18) Methyl Acetate	4.73	43	4539	4.950 ug/l #	87
19) Methyl tert-butyl Ether	5.47	73	16854	4.199 ug/l #	90
20) Methylene Chloride	4.96	84	17727	7.368 ug/l #	83
21) trans-1,2-Dichloroethene	5.47	96	8748	4.534 ug/l #	86
22) Diisopropyl ether	6.37	45	23671	4.498 ug/l #	89
23) Vinyl Acetate	6.31	43	62134m	19.845 ug/l	
24) 1,1-Dichloroethane	6.27	63	15270	4.710 ug/l	98
25) 2-Butanone	7.23	43	12641	22.753 ug/l #	87
26) 2,2-Dichloropropane	7.21	77	13690	4.668 ug/l	100
27) cis-1,2-Dichloroethene	7.21	96	9291	4.254 ug/l	98
28) Bromochloromethane	7.56	49	5849	4.815 ug/l #	91
29) Tetrahydrofuran	7.57	42	6744	20.797 ug/l #	92
30) Chloroform	7.71	83	15382	4.369 ug/l	92
31) Cyclohexane	7.99	56	16933	5.570 ug/l #	78
32) 1,1,1-Trichloroethane	7.91	97	12697	4.204 ug/l	92
36) 1,1-Dichloropropene	8.11	75	12869	4.612 ug/l	96
37) Ethyl Acetate	7.29	43	5810	4.588 ug/l #	90
38) Carbon Tetrachloride	8.09	117	11528	4.088 ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.35	83	14227	4.147	ug/l	92
40) Benzene	8.36	78	33061	4.134	ug/l	96
41) Methacrylonitrile	7.53	41	2268m	3.506	ug/l	
42) 1,2-Dichloroethane	8.43	62	10610	4.587	ug/l	100
43) Isopropyl Acetate	8.46	43	9870	4.218	ug/l #	58
44) Trichloroethene	9.11	130	9927	4.305	ug/l	94
45) 1,2-Dichloropropane	9.38	63	9173	4.687	ug/l	96
46) Dibromomethane	9.47	93	4958	4.448	ug/l	99
47) Bromodichloromethane	9.67	83	11313	3.942	ug/l #	81
48) Methyl methacrylate	9.46	41	4389	3.914	ug/l #	88
49) 1,4-Dioxane	9.47	88	1298	85.307	ug/l #	76
51) 4-Methyl-2-Pentanone	10.23	43	25460	20.978	ug/l	94
52) Toluene	10.40	92	21285	3.877	ug/l	92
53) t-1,3-Dichloropropene	10.62	75	10665	3.808	ug/l #	78
54) cis-1,3-Dichloropropene	10.09	75	11427	3.545	ug/l #	92
55) 1,1,2-Trichloroethane	10.80	97	6028	3.830	ug/l	93
56) Ethyl methacrylate	10.67	69	7790	3.908	ug/l #	83
57) 1,3-Dichloropropane	10.95	76	10586	3.931	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.94	63	15431	18.012	ug/l	95
59) 2-Hexanone	10.98	43	15452	17.600	ug/l	95
60) Dibromochloromethane	11.14	129	8122	3.964	ug/l	92
61) 1,2-Dibromoethane	11.25	107	6141	4.025	ug/l	95
64) Tetrachloroethene	10.88	164	8206	4.146	ug/l #	80
65) Chlorobenzene	11.67	112	24657	4.235	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.74	131	8365	3.899	ug/l	96
67) Ethyl Benzene	11.74	91	41645	3.967	ug/l	99
68) m/p-Xylenes	11.85	106	30567	7.543	ug/l	96
69) o-Xylene	12.17	106	15601	4.021	ug/l	99
70) Styrene	12.19	104	23615	3.595	ug/l #	89
71) Bromoform	12.36	173	4636	4.026	ug/l #	94
73) Isopropylbenzene	12.48	105	38834	3.938	ug/l	97
74) N-amyl acetate	12.29	43	9573	4.509	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.73	83	6666	3.885	ug/l	97
76) 1,2,3-Trichloropropane	12.79	75	3540m	3.603	ug/l	
77) Bromobenzene	12.76	156	10815	4.402	ug/l	97
78) n-propylbenzene	12.82	91	45963	3.971	ug/l	96
79) 2-Chlorotoluene	12.91	91	26744	4.191	ug/l	96
80) 1,3,5-Trimethylbenzene	12.96	105	34590	4.205	ug/l	88
81) trans-1,4-Dichloro-2-buten	12.53	75	2304	4.150	ug/l #	76
82) 4-Chlorotoluene	13.00	91	28150	4.158	ug/l	95
83) tert-Butylbenzene	13.22	119	27052	3.695	ug/l	98
84) 1,2,4-Trimethylbenzene	13.27	105	31756	3.745	ug/l	99
85) sec-Butylbenzene	13.40	105	39854	4.031	ug/l	97
86) p-Isopropyltoluene	13.51	119	37001	3.955	ug/l	99
87) 1,3-Dichlorobenzene	13.52	146	19180	3.951	ug/l	93
88) 1,4-Dichlorobenzene	13.60	146	19328	4.036	ug/l	89
89) n-Butylbenzene	13.84	91	35239	4.047	ug/l	98
90) Hexachloroethane	14.11	117	7153	4.251	ug/l	89
91) 1,2-Dichlorobenzene	13.88	146	17870	4.272	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.51	75	1371	4.619	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	13389	4.148	µg/l	96
94) Hexachlorobutadiene	15.27	225	7659	4.300	µg/l	98
95) Naphthalene	15.40	128	20494	3.778	µg/l	97
96) 1,2,3-Trichlorobenzene	15.60	180	10716	3.848	µg/l	94

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

