

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF111518\
 Data File : VF060742.D
 Acq On : 15 Nov 2018 12:32
 Operator : VA/AP
 Sample : VF1115SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1115SBS01

Manual Integrations
 APPROVED

MMDadoda
 11/16/2018 1:25:45 PM

Quant Time: Nov 15 14:13:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 14 03:11:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	228258	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.57	114	401343	50.00	ug/l	-0.05
63) Chlorobenzene-d5	9.76	117	369596	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.54	152	196972	50.00	ug/l	-0.03

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.82	65	115035	44.18	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	88.36%	
35) Dibromofluoromethane	4.09	113	136180	45.14	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	90.28%	
50) Toluene-d8	7.54	98	372277	47.94	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	95.88%	
62) 4-Bromofluorobenzene	11.39	95	176037	49.25	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	98.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	83841	20.52	ug/l	100
3) Chloromethane	1.09	50	59498	23.49	ug/l	98
4) Vinyl Chloride	1.14	62	51955	22.93	ug/l	89
5) Bromomethane	1.31	94	29433	20.45	ug/l	99
6) Chloroethane	1.36	64	18810	21.21	ug/l	93
7) Trichlorofluoromethane	1.48	101	103823	20.72	ug/l	91
8) Diethyl Ether	1.62	74	14195	22.11	ug/l	80
9) 1,1,2-Trichlorotrifluoroet	1.81	101	55187	23.37	ug/l	98
10) Methyl Iodide	1.87	142	86500	22.83	ug/l	97
11) Tert butyl alcohol	2.55	59	12500	105.49	ug/l #	82
12) 1,1-Dichloroethene	1.78	96	42154	22.64	ug/l	90
13) Acrolein	1.98	56	12656	116.82	ug/l	99
14) Allyl chloride	2.08	41	71578	21.94	ug/l	90
15) Acrylonitrile	2.92	53	30419	120.48	ug/l	91
16) Acetone	2.22	43	52631	94.58	ug/l	95
17) Carbon Disulfide	1.82	76	127571	22.67	ug/l #	92
18) Methyl Acetate	2.33	43	21109	23.10	ug/l	96
19) Methyl tert-butyl Ether	2.42	73	95170	21.30	ug/l	95
20) Methylene Chloride	2.17	84	50502m	25.93	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	44196	22.72	ug/l	94
22) Diisopropyl ether	2.78	45	149602	23.75	ug/l	98
23) Vinyl Acetate	3.17	43	363215	122.46	ug/l	99
24) 1,1-Dichloroethane	2.85	63	91546	24.01	ug/l	98
25) 2-Butanone	4.30	43	98916	108.07	ug/l	96
26) 2,2-Dichloropropane	3.58	77	63143	21.04	ug/l	98
27) cis-1,2-Dichloroethene	3.46	96	72559	21.92	ug/l	90
28) Bromochloromethane	3.70	49	45396	22.91	ug/l	95
29) Tetrahydrofuran	4.05	42	39530	104.70	ug/l	98
30) Chloroform	3.84	83	148365	24.25	ug/l	96
31) Cyclohexane	3.68	56	102262	22.10	ug/l	96
32) 1,1,1-Trichloroethane	4.07	97	100542	20.87	ug/l	99
36) 1,1-Dichloropropene	4.26	75	94746	20.36	ug/l	98
37) Ethyl Acetate	4.08	43	39489	22.82	ug/l	93
38) Carbon Tetrachloride	3.97	117	92210	20.42	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	110558	20.47	ug/l	99
40) Benzene	4.61	78	229671	22.14	ug/l	98
41) Methacrylonitrile	4.73	41	23662	23.34	ug/l	94
42) 1,2-Dichloroethane	4.92	62	71861	20.04	ug/l	91
43) Isopropyl Acetate	6.93	43	55054	23.99	ug/l #	100
44) Trichloroethene	5.48	130	67917	20.75	ug/l	99
45) 1,2-Dichloropropane	6.21	63	56979	21.10	ug/l	100
46) Dibromomethane	6.07	93	36730	20.61	ug/l	98
47) Bromodichloromethane	6.36	83	96930	21.30	ug/l	98
48) Methyl methacrylate	6.70	41	33349	21.96	ug/l	93
49) 1,4-Dioxane	6.69	88	6162	433.90	ug/l #	92
51) 4-Methyl-2-Pentanone	8.24	43	188368	113.51	ug/l	96
52) Toluene	7.61	92	140429	20.20	ug/l	98
53) t-1,3-Dichloropropene	8.26	75	72656	19.93	ug/l	99
54) cis-1,3-Dichloropropene	7.28	75	97181	20.52	ug/l	98
55) 1,1,2-Trichloroethane	8.47	97	39815	20.04	ug/l	95
56) Ethyl methacrylate	8.60	69	51128	22.66	ug/l	98
57) 1,3-Dichloropropane	8.84	76	73806	21.44	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.61	63	20630	100.10	ug/l	100
59) 2-Hexanone	9.47	43	140779	120.72	ug/l	98
60) Dibromochloromethane	8.69	129	57807	20.42	ug/l	96
61) 1,2-Dibromoethane	8.97	107	44296	21.20	ug/l	94
64) Tetrachloroethene	8.13	164	57451	19.63	ug/l	96
65) Chlorobenzene	9.78	112	156980	21.05	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.91	131	64760	19.91	ug/l	100
67) Ethyl Benzene	9.88	91	287526	20.45	ug/l	97
68) m/p-Xylenes	10.11	106	221991	44.19	ug/l	96
69) o-Xylene	10.69	106	121694	21.54	ug/l	96
70) Styrene	10.77	104	164266	21.43	ug/l	99
71) Bromoform	10.75	173	31221	21.34	ug/l #	92
73) Isopropylbenzene	11.11	105	352322	22.22	ug/l	94
74) N-amyl acetate	11.35	43	90509	25.08	ug/l	94
75) 1,1,2,2-Tetrachloroethane	11.68	83	56327	21.49	ug/l	98
76) 1,2,3-Trichloropropane	11.78	75	42789	21.98	ug/l	98
77) Bromobenzene	11.48	156	75811	22.97	ug/l	92
78) n-propylbenzene	11.58	91	418690	22.64	ug/l	97
79) 2-Chlorotoluene	11.71	91	228096	21.22	ug/l	99
80) 1,3,5-Trimethylbenzene	11.81	105	287859	22.87	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.86	75	20650m	21.59	ug/l	
82) 4-Chlorotoluene	11.89	91	231961	21.07	ug/l	100
83) tert-Butylbenzene	12.11	119	284050	21.25	ug/l	98
84) 1,2,4-Trimethylbenzene	12.19	105	279493	21.47	ug/l	96
85) sec-Butylbenzene	12.29	105	378193	20.86	ug/l	96
86) p-Isopropyltoluene	12.45	119	326136	21.54	ug/l	96
87) 1,3-Dichlorobenzene	12.46	146	140369	21.37	ug/l	99
88) 1,4-Dichlorobenzene	12.56	146	132052	20.92	ug/l	95
89) n-Butylbenzene	12.83	91	330068	21.36	ug/l	95
90) Hexachloroethane	12.90	117	75954	20.51	ug/l	93
91) 1,2-Dichlorobenzene	12.93	146	130624	21.12	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.63	75	10143	20.59	ug/l	76

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	93089	20.94	ug/l	97
94) Hexachlorobutadiene	14.18	225	61880	21.31	ug/l	95
95) Naphthalene	14.44	128	165497	20.41	ug/l	98
96) 1,2,3-Trichlorobenzene	14.59	180	83904	20.43	ug/l	95

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

