

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF120318\
 Data File : VF060908.D
 Acq On : 3 Dec 2018 23:10
 Operator : VA/AP
 Sample : J6139-03MSD
 Misc : 6.81g/5mL/MSVOA-F/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 S49-0483MSD

Manual Integrations
 APPROVED

apatel
 12/4/2018 2:52:36 PM

Quant Time: Dec 04 04:22:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	145411	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.62	114	267868	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.79	117	251193	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.56	152	127585	50.00	ug/l	-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.87	65	107325	62.65	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	125.30%	
35) Dibromofluoromethane	4.13	113	104957	49.39	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	98.78%	
50) Toluene-d8	7.57	98	302938	48.39	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	96.78%	
62) 4-Bromofluorobenzene	11.43	95	145659	51.20	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	102.40%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.97	85	110635	50.886	ug/l	99
3) Chloromethane	1.11	50	69757	49.306	ug/l	93
4) Vinyl Chloride	1.14	62	116198	88.050	ug/l	96
5) Bromomethane	1.34	94	48164	51.758	ug/l	98
6) Chloroethane	1.39	64	28787	50.463	ug/l	100
7) Trichlorofluoromethane	1.50	101	151602	53.541	ug/l	97
8) Diethyl Ether	1.63	74	24448	60.045	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	1.84	101	80881	56.503	ug/l	92
10) Methyl Iodide	1.91	142	112715	51.804	ug/l	99
11) Tert butyl alcohol	2.59	59	28393	404.345	ug/l	99
12) 1,1-Dichloroethene	1.80	96	57328	49.791	ug/l	98
13) Acrolein	2.01	56	8109m	121.883	ug/l	
14) Allyl chloride	2.11	41	51464	35.861	ug/l	91
15) Acrylonitrile	2.96	53	55031	349.566	ug/l	90
16) Acetone	2.25	43	144838	458.514	ug/l	99
17) Carbon Disulfide	1.85	76	157186	50.916	ug/l	96
18) Methyl Acetate	2.35	43	48586	93.103	ug/l	98
19) Methyl tert-butyl Ether	2.44	73	162915	62.823	ug/l	99
20) Methylene Chloride	2.25	84	66341m	57.247	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	97870m	88.170	ug/l	
22) Diisopropyl ether	2.81	45	216293	55.371	ug/l	98
23) Vinyl Acetate	3.20	43	357420	200.168	ug/l	98
24) 1,1-Dichloroethane	2.89	63	120990	52.059	ug/l	98
25) 2-Butanone	4.35	43	182630	334.260	ug/l	97
26) 2,2-Dichloropropane	3.62	77	67636	44.889	ug/l	100
27) cis-1,2-Dichloroethene	3.49	96	416774	230.629	ug/l	98
28) Bromochloromethane	3.73	49	65339	58.580	ug/l	98
29) Tetrahydrofuran	4.09	42	81763	353.038	ug/l	96
30) Chloroform	3.87	83	198771	55.571	ug/l	99
31) Cyclohexane	3.72	56	114340m	47.405	ug/l	
32) 1,1,1-Trichloroethane	4.12	97	113181	45.625	ug/l	94
36) 1,1-Dichloropropene	4.30	75	134863	45.392	ug/l	96
37) Ethyl Acetate	4.13	43	74456	61.667	ug/l #	88
38) Carbon Tetrachloride	4.01	117	112684	42.940	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.47	83	134908	43.328	ug/l	93
40) Benzene	4.65	78	315172	48.017	ug/l	98
41) Methacrylonitrile	4.76	41	38569	62.682	ug/l #	89
42) 1,2-Dichloroethane	4.96	62	134555	56.151	ug/l	96
43) Isopropyl Acetate	6.98	43	94742	64.381	ug/l	100
44) Trichloroethene	5.52	130	156466	72.906	ug/l	97
45) 1,2-Dichloropropane	6.26	63	87626	51.403	ug/l	95
46) Dibromomethane	6.10	93	70569	61.024	ug/l	91
47) Bromodichloromethane	6.41	83	160947	52.401	ug/l	100
48) Methyl methacrylate	6.73	41	64648	59.153	ug/l	93
49) 1,4-Dioxane	6.72	88	9479	1185.096	ug/l #	85
51) 4-Methyl-2-Pentanone	8.28	43	353425	317.430	ug/l	98
52) Toluene	7.64	92	214159	46.450	ug/l	94
53) t-1,3-Dichloropropene	8.30	75	127468	51.021	ug/l	98
54) cis-1,3-Dichloropropene	7.33	75	161749	52.297	ug/l	99
55) 1,1,2-Trichloroethane	8.51	97	72183	53.730	ug/l	98
56) Ethyl methacrylate	8.64	69	91365	61.221	ug/l	95
57) 1,3-Dichloropropane	8.87	76	127730	54.344	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.32	63	57885	379.202	ug/l	100
59) 2-Hexanone	9.52	43	268490	343.727	ug/l	98
60) Dibromochloromethane	8.74	129	106610	53.260	ug/l	97
61) 1,2-Dibromoethane	9.01	107	79717	54.928	ug/l	99
64) Tetrachloroethene	8.17	164	118704	61.870	ug/l	99
65) Chlorobenzene	9.82	112	234504	47.988	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.95	131	101115	48.132	ug/l	97
67) Ethyl Benzene	9.92	91	418281	45.978	ug/l	99
68) m/p-Xylenes	10.16	106	293000	89.547	ug/l	98
69) o-Xylene	10.73	106	165715	45.929	ug/l	83
70) Styrene	10.81	104	241426	48.270	ug/l	97
71) Bromoform	10.79	173	59866	58.997	ug/l #	92
73) Isopropylbenzene	11.14	105	508628	50.447	ug/l	97
74) N-amyl acetate	11.39	43	149285	64.121	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.72	83	100516	60.575	ug/l	99
76) 1,2,3-Trichloropropane	11.81	75	78066	64.725	ug/l	96
77) Bromobenzene	11.51	156	111351	50.375	ug/l	81
78) n-propylbenzene	11.61	91	563990	47.766	ug/l	99
79) 2-Chlorotoluene	11.73	91	330336	48.793	ug/l	99
80) 1,3,5-Trimethylbenzene	11.84	105	386590	47.231	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.88	75	30084m	50.907	ug/l	
82) 4-Chlorotoluene	11.91	91	341139	47.881	ug/l	98
83) tert-Butylbenzene	12.15	119	381737	45.785	ug/l	95
84) 1,2,4-Trimethylbenzene	12.22	105	397882	48.707	ug/l	96
85) sec-Butylbenzene	12.32	105	529764	46.415	ug/l	98
86) p-Isopropyltoluene	12.47	119	437472	45.717	ug/l	98
87) 1,3-Dichlorobenzene	12.49	146	198820	47.286	ug/l	98
88) 1,4-Dichlorobenzene	12.58	146	197801	48.273	ug/l	98
89) n-Butylbenzene	12.86	91	452238	46.738	ug/l	98
90) Hexachloroethane	12.93	117	109811	47.655	ug/l	92
91) 1,2-Dichlorobenzene	12.96	146	206291	51.809	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.66	75	21986	68.531	ug/l	83

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	139867	50.273	ug/l	97
94) Hexachlorobutadiene	14.20	225	76821	41.421	ug/l	99
95) Naphthalene	14.47	128	302814	56.534	ug/l	99
96) 1,2,3-Trichlorobenzene	14.62	180	133233	51.575	ug/l	95

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

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