

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121218\
 Data File : VF060999.D
 Acq On : 12 Dec 2018 16:49
 Operator : VA/AP
 Sample : VF1212SBS02
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1212SBS02

Manual Integrations
 APPROVED

MMDadoda
 12/20/2018 3:25:18 PM

Quant Time: Dec 13 02:30:36 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	4.86	168	182549	50.00	µg/l	-0.05
34) 1,4-Difluorobenzene	5.59	114	290861	50.00	µg/l	-0.05
63) Chlorobenzene-d5	9.77	117	273929	50.00	µg/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.55	152	145261	50.00	µg/l	-0.03
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	105064	48.86	µg/l	-0.04
Spiked Amount 50.000			Recovery	=	97.72%	
35) Dibromofluoromethane	4.10	113	126597	54.86	µg/l	-0.05
Spiked Amount 50.000			Recovery	=	109.72%	
50) Toluene-d8	7.55	98	319160	46.96	µg/l	-0.05
Spiked Amount 50.000			Recovery	=	93.92%	
62) 4-Bromofluorobenzene	11.40	95	154921	50.15	µg/l	-0.04
Spiked Amount 50.000			Recovery	=	100.30%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	53344	19.544	µg/l	97
3) Chloromethane	1.10	50	40167	22.615	µg/l	90
4) Vinyl Chloride	1.14	62	35957	21.704	µg/l	93
5) Bromomethane	1.34	94	25776	22.064	µg/l	90
6) Chloroethane	1.38	64	16115	22.502	µg/l	97
7) Trichlorofluoromethane	1.48	101	77685m	21.854	µg/l	
8) Diethyl Ether	1.63	74	10387	20.321	µg/l	99
9) 1,1,2-Trichlorotrifluoroet	1.83	101	39213	21.821	µg/l	96
10) Methyl Iodide	1.90	142	62774m	22.981	µg/l	
11) Tert butyl alcohol	2.57	59	9967	113.064	µg/l #	69
12) 1,1-Dichloroethene	1.79	96	29866	20.662	µg/l	87
13) Acrolein	2.00	56	5709	68.353	µg/l	87
14) Allyl chloride	2.09	41	33071	18.356	µg/l	94
15) Acrylonitrile	2.94	53	21335	107.952	µg/l	99
16) Acetone	2.24	43	48783	123.015	µg/l	97
17) Carbon Disulfide	1.83	76	82931	21.398	µg/l	98
18) Methyl Acetate	2.34	43	20057	29.469	µg/l	94
19) Methyl tert-butyl Ether	2.43	73	69529	21.357	µg/l	95
20) Methylene Chloride	2.25	84	33026m	22.701	µg/l	
21) trans-1,2-Dichloroethene	2.30	96	22774	16.343	µg/l	94
22) Diisopropyl ether	2.79	45	111363	22.709	µg/l	95
23) Vinyl Acetate	3.19	43	262343	117.031	µg/l	99
24) 1,1-Dichloroethane	2.87	63	63481	21.757	µg/l	98
25) 2-Butanone	4.33	43	78055	113.797	µg/l	99
26) 2,2-Dichloropropane	3.59	77	40444	21.381	µg/l	96
27) cis-1,2-Dichloroethene	3.47	96	48916	21.562	µg/l	95
28) Bromochloromethane	3.71	49	32604	23.284	µg/l	98
29) Tetrahydrofuran	4.07	42	33024	113.583	µg/l	94
30) Chloroform	3.86	83	96797	21.556	µg/l	98
31) Cyclohexane	3.68	56	65250m	21.549	µg/l	
32) 1,1,1-Trichloroethane	4.09	97	60399	19.395	µg/l	94
36) 1,1-Dichloropropene	4.27	75	74495	23.091	µg/l	96
37) Ethyl Acetate	4.10	43	30704	23.420	µg/l #	96
38) Carbon Tetrachloride	3.97	117	59348	20.828	µg/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
39) Methylcyclohexane	5.44	83	69340	20.509	µg/l	92
40) Benzene	4.63	78	159232	22.342	µg/l	97
41) Methacrylonitrile	4.74	41	16939	22.849	µg/l #	83
42) 1,2-Dichloroethane	4.94	62	63081	24.243	µg/l	100
43) Isopropyl Acetate	6.95	43	36308	20.861	µg/l #	91
44) Trichloroethene	5.49	130	54526	23.398	µg/l	98
45) 1,2-Dichloropropane	6.23	63	41718	22.538	µg/l	99
46) Dibromomethane	6.09	93	27421	21.838	µg/l	92
47) Bromodichloromethane	6.38	83	76261	22.866	µg/l	100
48) Methyl methacrylate	6.71	41	25141	21.186	µg/l	96
49) 1,4-Dioxane	6.71	88	4001	460.675	µg/l #	93
51) 4-Methyl-2-Pentanone	8.26	43	135081	111.733	µg/l	97
52) Toluene	7.61	92	101652	20.305	µg/l	90
53) t-1,3-Dichloropropene	8.27	75	57765	21.294	µg/l	97
54) cis-1,3-Dichloropropene	7.30	75	74223	22.101	µg/l	97
55) 1,1,2-Trichloroethane	8.48	97	31187	21.379	µg/l	98
56) Ethyl methacrylate	8.62	69	33611	20.741	µg/l	96
57) 1,3-Dichloropropane	8.85	76	60100	23.549	µg/l #	87
58) 2-Chloroethyl Vinyl ether	7.29	63	32545	196.347	µg/l	94
59) 2-Hexanone	9.49	43	95454	112.542	µg/l	93
60) Dibromochloromethane	8.71	129	45959	21.145	µg/l	100
61) 1,2-Dibromoethane	8.99	107	33758	21.422	µg/l	99
64) Tetrachloroethene	8.15	164	44174	21.113	µg/l	98
65) Chlorobenzene	9.79	112	119393	22.404	µg/l	99
66) 1,1,1,2-Tetrachloroethane	9.92	131	51370	22.423	µg/l	98
67) Ethyl Benzene	9.89	91	227651	22.947	µg/l	100
68) m/p-Xylenes	10.13	106	156697	43.915	µg/l	97
69) o-Xylene	10.71	106	87644	22.275	µg/l	98
70) Styrene	10.79	104	119755	21.956	µg/l	98
71) Bromoform	10.77	173	22674	20.490	µg/l	93
73) Isopropylbenzene	11.13	105	262205	22.841	µg/l	99
74) N-amyl acetate	11.37	43	59016	22.264	µg/l	97
75) 1,1,2,2-Tetrachloroethane	11.69	83	43016	22.769	µg/l	99
76) 1,2,3-Trichloropropane	11.80	75	30955	22.542	µg/l	98
77) Bromobenzene	11.49	156	55095	21.892	µg/l	83
78) n-propylbenzene	11.59	91	309334	23.011	µg/l	98
79) 2-Chlorotoluene	11.72	91	172046	22.320	µg/l	97
80) 1,3,5-Trimethylbenzene	11.83	105	208606	22.385	µg/l	100
81) trans-1,4-Dichloro-2-buten	11.87	75	14296m	21.248	µg/l	
82) 4-Chlorotoluene	11.90	91	179556	22.135	µg/l	94
83) tert-Butylbenzene	12.13	119	218390	23.006	µg/l	97
84) 1,2,4-Trimethylbenzene	12.20	105	212518	22.850	µg/l	99
85) sec-Butylbenzene	12.30	105	289454	22.274	µg/l	97
86) p-Isopropyltoluene	12.46	119	252891	23.212	µg/l	99
87) 1,3-Dichlorobenzene	12.47	146	110113	23.002	µg/l	97
88) 1,4-Dichlorobenzene	12.57	146	102532	21.978	µg/l	98
89) n-Butylbenzene	12.84	91	255346	23.179	µg/l	97
90) Hexachloroethane	12.91	117	58341	22.238	µg/l	97
91) 1,2-Dichlorobenzene	12.94	146	101743	22.443	µg/l	99
92) 1,2-Dibromo-3-Chloropropan	13.64	75	8695	23.805	µg/l	70

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
93) 1,2,4-Trichlorobenzene	14.19	180	74508	23.522	µg/l	96
94) Hexachlorobutadiene	14.18	225	47020	22.268	µg/l	94
95) Naphthalene	14.45	128	130008	18.975	µg/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	66618	22.650	µg/l	97

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

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