

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030419\
 Data File : VF061830.D
 Acq On : 4 Mar 2019 20:50
 Operator : VA/AP
 Sample : VF0304SBS01
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0304SBS01

Manual Integrations
 APPROVED

MMDadoda
 3/5/2019 10:48:11 AM

Quant Time: Mar 05 05:40:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:04:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	306923	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.60	114	468657	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	405774	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.55	152	217883	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	126328	56.13	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	112.26%	
35) Dibromofluoromethane	4.11	113	181339	52.10	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.20%	
50) Toluene-d8	7.55	98	507916	50.77	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.54%	
62) 4-Bromofluorobenzene	11.41	95	205350	50.73	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.46%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.97	85	87276	24.761	ug/l	97
3) Chloromethane	1.11	50	83331	22.533	ug/l	91
4) Vinyl Chloride	1.15	62	76898	22.368	ug/l	97
5) Bromomethane	1.32	94	51740	21.867	ug/l	95
6) Chloroethane	1.39	64	36501	21.544	ug/l	94
7) Trichlorofluoromethane	1.50	101	92453m	22.296	ug/l	
8) Diethyl Ether	1.63	74	22345	21.383	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	1.84	101	64727	21.638	ug/l #	91
10) Methyl Iodide	1.90	142	122865m	21.502	ug/l	
11) Tert butyl alcohol	2.59	59	15921	122.228	ug/l	97
12) 1,1-Dichloroethene	1.80	96	58443	22.221	ug/l	94
13) Acrolein	2.00	56	17755	108.454	ug/l #	79
14) Allyl chloride	2.10	41	73920	22.904	ug/l	94
15) Acrylonitrile	2.95	53	46759	101.204	ug/l	92
16) Acetone	2.24	43	47148	97.635	ug/l #	87
17) Carbon Disulfide	1.83	76	179724m	21.740	ug/l	
18) Methyl Acetate	2.35	43	24713	22.717	ug/l	97
19) Methyl tert-butyl Ether	2.44	73	102431	22.789	ug/l	99
20) Methylene Chloride	2.18	84	65602m	22.489	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	58056	20.306	ug/l	94
22) Diisopropyl ether	2.80	45	174034	22.465	ug/l	96
23) Vinyl Acetate	3.19	43	396707	104.843	ug/l	98
24) 1,1-Dichloroethane	2.87	63	95838	20.442	ug/l	99
25) 2-Butanone	4.34	43	103190	97.828	ug/l	99
26) 2,2-Dichloropropane	3.60	77	42157	21.229	ug/l	94
27) cis-1,2-Dichloroethene	3.48	96	75785	20.195	ug/l	95
28) Bromochloromethane	3.72	49	41591	18.489	ug/l	99
29) Tetrahydrofuran	4.08	42	48391	100.937	ug/l	96
30) Chloroform	3.87	83	111034	20.826	ug/l	94
31) Cyclohexane	3.69	56	104611m	20.612	ug/l	
32) 1,1,1-Trichloroethane	4.09	97	76027	21.769	ug/l	95
36) 1,1-Dichloropropene	4.28	75	91092	19.621	ug/l	95
37) Ethyl Acetate	4.11	43	43381	20.117	ug/l #	76
38) Carbon Tetrachloride	4.00	117	64888	20.241	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	103315	18.817	ug/l	95
40) Benzene	4.64	78	237270	19.539	ug/l	99
41) Methacrylonitrile	4.75	41	21250	19.270	ug/l	95
42) 1,2-Dichloroethane	4.94	62	58227	20.045	ug/l	91
43) Isopropyl Acetate	6.95	43	47050	18.433	ug/l #	94
44) Trichloroethene	5.50	130	76726	19.538	ug/l	99
45) 1,2-Dichloropropane	6.23	63	55351	18.857	ug/l	95
46) Dibromomethane	6.09	93	35096	19.419	ug/l	89
47) Bromodichloromethane	6.38	83	79516	20.091	ug/l	99
48) Methyl methacrylate	6.72	41	32216	20.973	ug/l	90
49) 1,4-Dioxane	6.71	88	5758	398.761	ug/l #	77
51) 4-Methyl-2-Pentanone	8.26	43	180649	99.049	ug/l	99
52) Toluene	7.62	92	144993	19.687	ug/l	92
53) t-1,3-Dichloropropene	8.27	75	68779	20.881	ug/l	97
54) cis-1,3-Dichloropropene	7.30	75	87182	19.871	ug/l	94
55) 1,1,2-Trichloroethane	8.49	97	42701	19.734	ug/l	98
56) Ethyl methacrylate	8.62	69	44125	18.316	ug/l	93
57) 1,3-Dichloropropane	8.86	76	66228	18.337	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.29	63	35258	84.823	ug/l #	84
59) 2-Hexanone	9.49	43	122732	96.000	ug/l	97
60) Dibromochloromethane	8.72	129	59131	19.633	ug/l	96
61) 1,2-Dibromoethane	8.98	107	45700	19.472	ug/l	95
64) Tetrachloroethene	8.16	164	64950	19.582	ug/l	98
65) Chlorobenzene	9.79	112	158676	19.271	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.93	131	63936	19.816	ug/l	95
67) Ethyl Benzene	9.90	91	272543	19.904	ug/l	100
68) m/p-Xylenes	10.13	106	217521	41.507	ug/l	93
69) o-Xylene	10.71	106	110345	19.733	ug/l	93
70) Styrene	10.79	104	159479	20.160	ug/l	98
71) Bromoform	10.77	173	35000	19.976	ug/l	99
73) Isopropylbenzene	11.12	105	323129	20.830	ug/l	98
74) N-amyl acetate	11.37	43	78814	21.167	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.70	83	54735	19.695	ug/l	93
76) 1,2,3-Trichloropropane	11.80	75	39135	20.712	ug/l	98
77) Bromobenzene	11.49	156	77920	20.332	ug/l	86
78) n-propylbenzene	11.60	91	362095	20.341	ug/l	99
79) 2-Chlorotoluene	11.72	91	196531	19.713	ug/l	91
80) 1,3,5-Trimethylbenzene	11.82	105	261554	21.096	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.86	75	16910m	18.667	ug/l	
82) 4-Chlorotoluene	11.89	91	210844	20.375	ug/l	92
83) tert-Butylbenzene	12.13	119	282997	20.608	ug/l	98
84) 1,2,4-Trimethylbenzene	12.20	105	252063	20.463	ug/l	92
85) sec-Butylbenzene	12.31	105	371438	20.916	ug/l	98
86) p-Isopropyltoluene	12.46	119	314597	21.109	ug/l	98
87) 1,3-Dichlorobenzene	12.48	146	153448	20.538	ug/l	99
88) 1,4-Dichlorobenzene	12.56	146	142962	19.897	ug/l	97
89) n-Butylbenzene	12.84	91	293358	20.845	ug/l	96
90) Hexachloroethane	12.92	117	69740	20.120	ug/l	99
91) 1,2-Dichlorobenzene	12.94	146	141352	19.891	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.64	75	8336	18.918	ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	97963	19.232	µg/l	95
94) Hexachlorobutadiene	14.19	225	64373	20.463	µg/l	96
95) Naphthalene	14.46	128	177463	19.913	µg/l	97
96) 1,2,3-Trichlorobenzene	14.61	180	91898	19.657	µg/l	95

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

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