

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022819\
 Data File : VF061790.D
 Acq On : 28 Feb 2019 16:28
 Operator : VA/AP
 Sample : VF0228SBS01
 Misc : 5.00µg/5mL/MSVOA-F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0228SBS01

Manual Integrations
 APPROVED

MMDadoda
 3/2/2019 4:09:44 AM

Quant Time: Mar 01 00:36:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	292782	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.58	114	428247	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.76	117	368919	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.54	152	210655	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.82	65	104963	48.89	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	97.78%	
35) Dibromofluoromethane	4.09	113	150243	47.24	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	94.48%	
50) Toluene-d8	7.54	98	445670	48.75	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	97.50%	
62) 4-Bromofluorobenzene	11.40	95	169002	45.69	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	91.38%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	83840	24.935	ug/l	95
3) Chloromethane	1.10	50	77504	21.970	ug/l	99
4) Vinyl Chloride	1.14	62	78160	23.833	ug/l	96
5) Bromomethane	1.32	94	51657	22.886	ug/l	99
6) Chloroethane	1.38	64	37245	23.045	ug/l	98
7) Trichlorofluoromethane	1.48	101	93304	23.588	ug/l	100
8) Diethyl Ether	1.63	74	20053	20.117	ug/l	89
9) 1,1,2-Trichlorotrifluoroet	1.83	101	65427	22.928	ug/l	95
10) Methyl Iodide	1.90	142	118894m	21.812	ug/l	
11) Tert butyl alcohol	2.57	59	12006	96.623	ug/l	97
12) 1,1-Dichloroethene	1.79	96	57596	22.957	ug/l	96
13) Acrolein	1.99	56	14098	90.275	ug/l	100
14) Allyl chloride	2.09	41	67319	21.867	ug/l	97
15) Acrylonitrile	2.93	53	43581	98.882	ug/l	92
16) Acetone	2.23	43	53899	117.006	ug/l	94
17) Carbon Disulfide	1.83	76	170905m	21.672	ug/l	
18) Methyl Acetate	2.34	43	24031	23.157	ug/l	97
19) Methyl tert-butyl Ether	2.42	73	96903	22.600	ug/l	94
20) Methylene Chloride	2.17	84	60134m	23.000	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	56593	20.750	ug/l	88
22) Diisopropyl ether	2.79	45	168029	22.737	ug/l	99
23) Vinyl Acetate	3.18	43	373678	103.526	ug/l	97
24) 1,1-Dichloroethane	2.86	63	100121	22.388	ug/l	99
25) 2-Butanone	4.32	43	106591	105.933	ug/l	97
26) 2,2-Dichloropropane	3.58	77	48629	25.671	ug/l	97
27) cis-1,2-Dichloroethene	3.46	96	77993	21.787	ug/l	90
28) Bromochloromethane	3.70	49	45724	21.309	ug/l	88
29) Tetrahydrofuran	4.05	42	42868	93.735	ug/l	100
30) Chloroform	3.85	83	114133	22.441	ug/l	96
31) Cyclohexane	3.68	56	105054m	21.699	ug/l	
32) 1,1,1-Trichloroethane	4.08	97	76815	23.057	ug/l	95
36) 1,1-Dichloropropene	4.27	75	92433	21.788	ug/l	91
37) Ethyl Acetate	4.10	43	38112	19.342	ug/l #	99
38) Carbon Tetrachloride	3.98	117	68124	23.256	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.43	83	115553	23.031	ug/l	98
40) Benzene	4.62	78	248083	22.357	ug/l	97
41) Methacrylonitrile	4.72	41	23353	23.175	ug/l	95
42) 1,2-Dichloroethane	4.93	62	60735	22.882	ug/l	93
43) Isopropyl Acetate	6.94	43	45485	19.501	ug/l #	99
44) Trichloroethene	5.48	130	82523	22.998	ug/l	97
45) 1,2-Dichloropropane	6.22	63	57669	21.501	ug/l	96
46) Dibromomethane	6.08	93	37660	22.804	ug/l	86
47) Bromodichloromethane	6.37	83	83785	23.168	ug/l	98
48) Methyl methacrylate	6.70	41	25947	18.486	ug/l	90
49) 1,4-Dioxane	6.70	88	5409	409.939	ug/l #	86
51) 4-Methyl-2-Pentanone	8.25	43	167611	100.572	ug/l	96
52) Toluene	7.61	92	150193	22.318	ug/l	96
53) t-1,3-Dichloropropene	8.26	75	66610	22.130	ug/l	94
54) cis-1,3-Dichloropropene	7.28	75	90366	22.540	ug/l	92
55) 1,1,2-Trichloroethane	8.47	97	41568	21.023	ug/l	94
56) Ethyl methacrylate	8.60	69	46792	21.255	ug/l	96
57) 1,3-Dichloropropane	8.84	76	72196	21.875	ug/l	92
58) 2-Chloroethyl Vinyl ether	7.28	63	38960	102.573	ug/l	99
59) 2-Hexanone	9.48	43	127052	108.757	ug/l	99
60) Dibromochloromethane	8.70	129	59210	21.514	ug/l	99
61) 1,2-Dibromoethane	8.97	107	47621	22.205	ug/l	91
64) Tetrachloroethene	8.14	164	69682	23.108	ug/l	98
65) Chlorobenzene	9.78	112	166818	22.283	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.91	131	68662	23.406	ug/l	96
67) Ethyl Benzene	9.88	91	295039	23.699	ug/l	96
68) m/p-Xylenes	10.12	106	224726	47.166	ug/l	100
69) o-Xylene	10.70	106	116697	22.953	ug/l	97
70) Styrene	10.78	104	165720	23.041	ug/l	98
71) Bromoform	10.76	173	34350	21.564	ug/l	98
73) Isopropylbenzene	11.11	105	327475	21.834	ug/l	100
74) N-amyl acetate	11.36	43	75700	21.028	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.69	83	57401	21.363	ug/l	98
76) 1,2,3-Trichloropropane	11.79	75	37392	20.468	ug/l	98
77) Bromobenzene	11.48	156	82967	22.392	ug/l	89
78) n-propylbenzene	11.58	91	401216	23.312	ug/l	95
79) 2-Chlorotoluene	11.71	91	222531	23.087	ug/l	93
80) 1,3,5-Trimethylbenzene	11.81	105	271244	22.628	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.85	75	16123m	18.409	ug/l	
82) 4-Chlorotoluene	11.88	91	222236	22.213	ug/l	91
83) tert-Butylbenzene	12.12	119	288921	21.761	ug/l	98
84) 1,2,4-Trimethylbenzene	12.19	105	271809	22.824	ug/l	93
85) sec-Butylbenzene	12.30	105	385411	22.448	ug/l	98
86) p-Isopropyltoluene	12.45	119	329238	22.849	ug/l	98
87) 1,3-Dichlorobenzene	12.47	146	158070	21.883	ug/l	98
88) 1,4-Dichlorobenzene	12.55	146	153125	22.042	ug/l	97
89) n-Butylbenzene	12.83	91	321149	23.603	ug/l	100
90) Hexachloroethane	12.91	117	77051	22.992	ug/l	99
91) 1,2-Dichlorobenzene	12.93	146	153704	22.371	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.63	75	9158	21.497	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	107528	21.834	ug/l	98
94) Hexachlorobutadiene	14.18	225	68545	22.537	ug/l	97
95) Naphthalene	14.45	128	168965	19.610	ug/l	98
96) 1,2,3-Trichlorobenzene	14.60	180	94934	21.003	ug/l	98

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

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