

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122718\
 Data File : VF061223.D
 Acq On : 27 Dec 2018 22:26
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 12/28/2018 9:38:55 AM

Quant Time: Dec 28 06:32:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	183576	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.58	114	323038	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.76	117	291213	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.54	152	139018	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	108207	45.83	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	91.66%	
35) Dibromofluoromethane	4.10	113	115596	44.67	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	89.34%	
50) Toluene-d8	7.53	98	326473	44.52	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	89.04%	
62) 4-Bromofluorobenzene	11.40	95	147326	43.58	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	87.16%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	188308	46.145	ug/l	96
3) Chloromethane	1.10	50	128368	54.916	ug/l	96
4) Vinyl Chloride	1.14	62	114430	52.771	ug/l	90
5) Bromomethane	1.33	94	75432	50.153	ug/l	97
6) Chloroethane	1.39	64	49917	49.959	ug/l	99
7) Trichlorofluoromethane	1.48	101	209683m	50.644	ug/l	
8) Diethyl Ether	1.62	74	31438	55.449	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	1.83	101	110908	51.664	ug/l	94
10) Methyl Iodide	1.90	142	172630m	51.015	ug/l	
11) Tert butyl alcohol	2.56	59	25016	262.552	ug/l	94
12) 1,1-Dichloroethene	1.79	96	87497	54.070	ug/l	91
13) Acrolein	2.00	56	19091	277.288	ug/l #	79
14) Allyl chloride	2.09	41	107168	63.638	ug/l	90
15) Acrylonitrile	2.92	53	64940	294.746	ug/l	98
16) Acetone	2.23	43	94011	199.171	ug/l	98
17) Carbon Disulfide	1.83	76	246860m	50.479	ug/l	
18) Methyl Acetate	2.33	43	53468	54.752	ug/l	94
19) Methyl tert-butyl Ether	2.41	73	185903	51.756	ug/l	100
20) Methylene Chloride	2.23	84	90283m	60.829	ug/l	
21) trans-1,2-Dichloroethene	2.29	96	89693m	51.822	ug/l	
22) Diisopropyl ether	2.79	45	311941	55.609	ug/l	95
23) Vinyl Acetate	3.17	43	698808	270.040	ug/l	98
24) 1,1-Dichloroethane	2.86	63	181017	54.464	ug/l	99
25) 2-Butanone	4.32	43	189474	247.513	ug/l	97
26) 2,2-Dichloropropane	3.58	77	98088	51.426	ug/l	96
27) cis-1,2-Dichloroethene	3.46	96	143740	54.248	ug/l	97
28) Bromochloromethane	3.69	49	94163	55.837	ug/l	88
29) Tetrahydrofuran	4.06	42	82969	266.292	ug/l	99
30) Chloroform	3.84	83	256222	51.414	ug/l	99
31) Cyclohexane	3.67	56	183007m	53.064	ug/l	
32) 1,1,1-Trichloroethane	4.07	97	174472	58.410	ug/l	96
36) 1,1-Dichloropropene	4.26	75	187548	48.098	ug/l	97
37) Ethyl Acetate	4.09	43	81960	55.015	ug/l #	81
38) Carbon Tetrachloride	3.97	117	148398	49.975	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.43	83	203710	58.233	ug/l	98
40) Benzene	4.61	78	425082	50.693	ug/l	96
41) Methacrylonitrile	4.72	41	42926	52.127	ug/l #	90
42) 1,2-Dichloroethane	4.92	62	156769	49.214	ug/l	98
43) Isopropyl Acetate	6.94	43	97657	51.869	ug/l #	98
44) Trichloroethene	5.49	130	129761	49.083	ug/l	97
45) 1,2-Dichloropropane	6.22	63	120258	52.712	ug/l	93
46) Dibromomethane	6.07	93	77227	52.191	ug/l	97
47) Bromodichloromethane	6.37	83	195642	50.887	ug/l	99
48) Methyl methacrylate	6.70	41	77000	58.583	ug/l	96
49) 1,4-Dioxane	6.69	88	10746	1126.759	ug/l #	62
51) 4-Methyl-2-Pentanone	8.24	43	322667	249.888	ug/l	99
52) Toluene	7.61	92	258566	46.582	ug/l	98
53) t-1,3-Dichloropropene	8.26	75	145868	47.032	ug/l	98
54) cis-1,3-Dichloropropene	7.28	75	195632	50.257	ug/l	100
55) 1,1,2-Trichloroethane	8.47	97	88616	53.254	ug/l	98
56) Ethyl methacrylate	8.61	69	93729	52.054	ug/l	97
57) 1,3-Dichloropropane	8.83	76	155812	51.772	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.27	63	65340	188.943	ug/l	94
59) 2-Hexanone	9.47	43	229766	246.055	ug/l	97
60) Dibromochloromethane	8.70	129	121420	50.903	ug/l	91
61) 1,2-Dibromoethane	8.97	107	93116	52.396	ug/l	96
64) Tetrachloroethene	8.13	164	111785	49.900	ug/l	98
65) Chlorobenzene	9.78	112	304291	50.580	ug/l	95
66) 1,1,1,2-Tetrachloroethane	9.91	131	122609	49.871	ug/l	99
67) Ethyl Benzene	9.88	91	558833	50.988	ug/l	98
68) m/p-Xylenes	10.12	106	374962	97.213	ug/l	100
69) o-Xylene	10.70	106	221606	51.803	ug/l	92
70) Styrene	10.78	104	289593	56.156	ug/l	99
71) Bromoform	10.76	173	57500	50.553	ug/l #	99
73) Isopropylbenzene	11.11	105	638917	53.332	ug/l	100
74) N-amyl acetate	11.36	43	150943	56.751	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.68	83	109386	55.016	ug/l	99
76) 1,2,3-Trichloropropane	11.78	75	80559	54.444	ug/l	92
77) Bromobenzene	11.48	156	130799	50.720	ug/l	99
78) n-propylbenzene	11.59	91	709696	51.853	ug/l	96
79) 2-Chlorotoluene	11.70	91	415320	50.536	ug/l	98
80) 1,3,5-Trimethylbenzene	11.81	105	491479	49.823	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.86	75	36947m	58.109	ug/l	
82) 4-Chlorotoluene	11.88	91	429095	50.473	ug/l	97
83) tert-Butylbenzene	12.12	119	528869	52.101	ug/l	99
84) 1,2,4-Trimethylbenzene	12.19	105	494875	50.307	ug/l	97
85) sec-Butylbenzene	12.30	105	710494	53.634	ug/l	98
86) p-Isopropyltoluene	12.44	119	576727	52.451	ug/l	98
87) 1,3-Dichlorobenzene	12.46	146	238587	57.497	ug/l	98
88) 1,4-Dichlorobenzene	12.55	146	241975	51.099	ug/l	99
89) n-Butylbenzene	12.83	91	581355	53.128	ug/l	97
90) Hexachloroethane	12.91	117	144679	53.257	ug/l	80
91) 1,2-Dichlorobenzene	12.93	146	236606	51.321	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.63	75	20909	57.308	ug/l	80

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	159089	48.657	ug/l	94
94) Hexachlorobutadiene	14.18	225	104836	50.342	ug/l	96
95) Naphthalene	14.45	128	313453	52.501	ug/l	99
96) 1,2,3-Trichlorobenzene	14.58	180	157646	52.155	ug/l	95

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

