

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122818\
 Data File : VF061244.D
 Acq On : 28 Dec 2018 19:10
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 1/2/2019 11:52:42 AM

Quant Time: Dec 29 03:12:01 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	4.89	168	241398	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.62	114	384086	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.79	117	360580	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.56	152	164366	50.00	ug/l	0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.87	65	133476	42.99	ug/l	0.03
Spiked Amount 50.000			Recovery	=	85.98%	
35) Dibromofluoromethane	4.13	113	149711	48.66	ug/l	0.02
Spiked Amount 50.000			Recovery	=	97.32%	
50) Toluene-d8	7.57	98	440154	50.48	ug/l	0.02
Spiked Amount 50.000			Recovery	=	100.96%	
62) 4-Bromofluorobenzene	11.42	95	190617	47.42	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.84%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.97	85	202303	37.700	ug/l	99
3) Chloromethane	1.11	50	154388	50.227	ug/l	97
4) Vinyl Chloride	1.15	62	136665	47.928	ug/l	89
5) Bromomethane	1.36	94	94639	47.851	ug/l	99
6) Chloroethane	1.40	64	64043	48.743	ug/l	88
7) Trichlorofluoromethane	1.49	101	213703m	39.251	ug/l	
8) Diethyl Ether	1.64	74	37597	50.428	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	1.85	101	119873	42.464	ug/l	93
10) Methyl Iodide	1.92	142	203430m	45.717	ug/l	
11) Tert butyl alcohol	2.59	59	26556	211.955	ug/l	94
12) 1,1-Dichloroethene	1.81	96	97660	45.895	ug/l	88
13) Acrolein	2.01	56	32969	364.159	ug/l	95
14) Allyl chloride	2.11	41	107574	48.578	ug/l	87
15) Acrylonitrile	2.96	53	80405	277.525	ug/l	96
16) Acetone	2.25	43	103092	166.095	ug/l #	86
17) Carbon Disulfide	1.85	76	279544m	43.471	ug/l	
18) Methyl Acetate	2.36	43	59543	46.368	ug/l	99
19) Methyl tert-butyl Ether	2.44	73	199790	42.299	ug/l	95
20) Methylene Chloride	2.27	84	95429m	47.927	ug/l	
21) trans-1,2-Dichloroethene	2.32	96	98904m	43.457	ug/l	
22) Diisopropyl ether	2.82	45	376528	51.045	ug/l	92
23) Vinyl Acetate	3.20	43	833044	244.805	ug/l	98
24) 1,1-Dichloroethane	2.89	63	217103	49.675	ug/l	96
25) 2-Butanone	4.36	43	234520	232.976	ug/l	99
26) 2,2-Dichloropropane	3.62	77	111792	44.572	ug/l	92
27) cis-1,2-Dichloroethene	3.49	96	172101	49.394	ug/l	90
28) Bromochloromethane	3.73	49	116389	52.485	ug/l	87
29) Tetrahydrofuran	4.09	42	101847	248.584	ug/l	97
30) Chloroform	3.88	83	287115	43.813	ug/l	99
31) Cyclohexane	3.71	56	231533m	51.054	ug/l	
32) 1,1,1-Trichloroethane	4.12	97	155525	39.595	ug/l	92
36) 1,1-Dichloropropene	4.30	75	224093	48.336	ug/l	98
37) Ethyl Acetate	4.14	43	94789	53.161	ug/l #	84
38) Carbon Tetrachloride	4.01	117	154916	43.878	ug/l	90

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.47	83	203201	48.855	ug/l	99
40) Benzene	4.65	78	514688	51.623	ug/l	96
41) Methacrylonitrile	4.77	41	49300	50.352	ug/l	95
42) 1,2-Dichloroethane	4.96	62	168218	44.414	ug/l	100
43) Isopropyl Acetate	6.98	43	122637	54.783	ug/l #	97
44) Trichloroethene	5.52	130	155860	49.584	ug/l	93
45) 1,2-Dichloropropane	6.26	63	142541	52.549	ug/l	99
46) Dibromomethane	6.10	93	86948	49.421	ug/l	95
47) Bromodichloromethane	6.41	83	220720	48.285	ug/l	97
48) Methyl methacrylate	6.73	41	81006	51.835	ug/l	97
49) 1,4-Dioxane	6.73	88	10774	950.137	ug/l #	75
51) 4-Methyl-2-Pentanone	8.27	43	402359	262.077	ug/l	99
52) Toluene	7.64	92	339354	51.419	ug/l	99
53) t-1,3-Dichloropropene	8.29	75	173696	47.103	ug/l	97
54) cis-1,3-Dichloropropene	7.31	75	236370	51.071	ug/l	98
55) 1,1,2-Trichloroethane	8.51	97	103104	52.112	ug/l	96
56) Ethyl methacrylate	8.64	69	115509	53.954	ug/l	95
57) 1,3-Dichloropropane	8.87	76	185594	51.866	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.31	63	86948	211.464	ug/l #	90
59) 2-Hexanone	9.50	43	286244	257.815	ug/l	99
60) Dibromochloromethane	8.74	129	137282	48.405	ug/l	96
61) 1,2-Dibromoethane	9.00	107	109733	51.932	ug/l	98
64) Tetrachloroethene	8.17	164	135877	48.986	ug/l	97
65) Chlorobenzene	9.81	112	364004	48.866	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.95	131	142157	46.699	ug/l	98
67) Ethyl Benzene	9.92	91	674334	49.690	ug/l	98
68) m/p-Xylenes	10.15	106	470088	98.429	ug/l	95
69) o-Xylene	10.73	106	260954	49.266	ug/l	89
70) Styrene	10.81	104	356299	55.766	ug/l	96
71) Bromoform	10.79	173	67355	47.825	ug/l	100
73) Isopropylbenzene	11.14	105	719195	50.775	ug/l	100
74) N-amyl acetate	11.38	43	183172	58.248	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.70	83	123104	52.367	ug/l	96
76) 1,2,3-Trichloropropane	11.80	75	88629	50.661	ug/l	96
77) Bromobenzene	11.51	156	153669	50.398	ug/l	95
78) n-propylbenzene	11.61	91	847636	52.529	ug/l	98
79) 2-Chlorotoluene	11.73	91	487536	50.175	ug/l	99
80) 1,3,5-Trimethylbenzene	11.83	105	564013	48.358	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.88	75	42819m	56.958	ug/l	
82) 4-Chlorotoluene	11.91	91	489876	48.736	ug/l	98
83) tert-Butylbenzene	12.14	119	569985	47.492	ug/l	99
84) 1,2,4-Trimethylbenzene	12.22	105	569917	49.001	ug/l	96
85) sec-Butylbenzene	12.32	105	799020	51.015	ug/l	99
86) p-Isopropyltoluene	12.47	119	632746	48.671	ug/l	99
87) 1,3-Dichlorobenzene	12.48	146	280437	57.124	ug/l	97
88) 1,4-Dichlorobenzene	12.57	146	170093m	30.380	ug/l	
89) n-Butylbenzene	12.86	91	645406	48.892	ug/l	99
90) Hexachloroethane	12.93	117	164522	51.222	ug/l	86
91) 1,2-Dichlorobenzene	12.96	146	269633	49.465	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.66	75	20821	48.266	ug/l	87

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	187543	48.513	ug/l	95
94) Hexachlorobutadiene	14.20	225	121510	49.351	ug/l	95
95) Naphthalene	14.47	128	338830	47.999	ug/l	99
96) 1,2,3-Trichlorobenzene	14.61	180	178780	50.026	ug/l	96

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

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