

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011119\
 Data File : VF061361.D
 Acq On : 11 Jan 2019 11:37
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 1/14/2019 1:16:27 PM

Quant Time: Jan 12 03:39:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F010819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 09 07:13:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.84	168	168417	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.57	114	310673	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.75	117	298948	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.54	152	141143	50.00	ug/l	-0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.82	65	108809	58.04	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	116.08%	
35) Dibromofluoromethane	4.08	113	123889	52.12	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	104.24%	
50) Toluene-d8	7.53	98	366400	52.09	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	104.18%	
62) 4-Bromofluorobenzene	11.39	95	157577	51.30	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	102.60%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	154240	49.649	ug/l	95
3) Chloromethane	1.08	50	112793	40.744	ug/l	98
4) Vinyl Chloride	1.12	62	106499	43.073	ug/l	98
5) Bromomethane	1.29	94	79524	41.131	ug/l	95
6) Chloroethane	1.36	64	54293	44.967	ug/l	90
7) Trichlorofluoromethane	1.46	101	220572	52.623	ug/l	96
8) Diethyl Ether	1.62	74	27268	44.302	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	1.80	101	98269	44.401	ug/l	97
10) Methyl Iodide	1.83	142	150298m	43.346	ug/l	
11) Tert butyl alcohol	2.54	59	17191	229.046	ug/l #	80
12) 1,1-Dichloroethene	1.76	96	78452	44.328	ug/l	97
13) Acrolein	1.98	56	20389	249.795	ug/l	92
14) Allyl chloride	2.08	41	146310	45.228	ug/l	98
15) Acrylonitrile	2.92	53	54909	206.372	ug/l	94
16) Acetone	2.22	43	120263	275.786	ug/l #	90
17) Carbon Disulfide	1.75	76	245165	41.940	ug/l	98
18) Methyl Acetate	2.33	43	39221	45.714	ug/l	93
19) Methyl tert-butyl Ether	2.41	73	152535	45.229	ug/l	97
20) Methylene Chloride	2.17	84	80809	43.803	ug/l	96
21) trans-1,2-Dichloroethene	2.30	96	87027	46.405	ug/l	97
22) Diisopropyl ether	2.78	45	274690	43.891	ug/l	99
23) Vinyl Acetate	3.16	43	507665	277.373	ug/l	99
24) 1,1-Dichloroethane	2.85	63	165693	45.768	ug/l	98
25) 2-Butanone	4.31	43	176531	251.520	ug/l	99
26) 2,2-Dichloropropane	3.57	77	114668	47.399	ug/l	99
27) cis-1,2-Dichloroethene	3.45	96	122857	46.921	ug/l	99
28) Bromochloromethane	3.70	49	75038	47.011	ug/l #	93
29) Tetrahydrofuran	4.04	42	68883	234.733	ug/l	98
30) Chloroform	3.84	83	239039	52.014	ug/l	98
31) Cyclohexane	3.67	56	175572	46.228	ug/l	96
32) 1,1,1-Trichloroethane	4.07	97	181156	48.802	ug/l	99
36) 1,1-Dichloropropene	4.25	75	169223	46.645	ug/l	95
37) Ethyl Acetate	4.08	43	60871	46.074	ug/l #	71
38) Carbon Tetrachloride	3.96	117	161022	46.863	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.42	83	180757	39.819	ug/l	94
40) Benzene	4.61	78	378423	44.678	ug/l	98
41) Methacrylonitrile	4.72	41	35181	47.685	ug/l	93
42) 1,2-Dichloroethane	4.92	62	134432	50.980	ug/l	100
43) Isopropyl Acetate	6.93	43	84665	48.540	ug/l #	100
44) Trichloroethene	5.48	130	115361	46.540	ug/l	91
45) 1,2-Dichloropropane	6.21	63	103719	48.154	ug/l	100
46) Dibromomethane	6.06	93	66440	50.240	ug/l	90
47) Bromodichloromethane	6.36	83	171326	52.091	ug/l	98
48) Methyl methacrylate	6.70	41	52067	45.989	ug/l	92
49) 1,4-Dioxane	6.69	88	6703	938.294	ug/l #	85
51) 4-Methyl-2-Pentanone	8.24	43	305691	232.193	ug/l	99
52) Toluene	7.60	92	249367	45.805	ug/l	99
53) t-1,3-Dichloropropene	8.25	75	129341	50.076	ug/l	99
54) cis-1,3-Dichloropropene	7.28	75	171243	50.002	ug/l	97
55) 1,1,2-Trichloroethane	8.47	97	74062	48.616	ug/l	93
56) Ethyl methacrylate	8.60	69	78313	45.996	ug/l	97
57) 1,3-Dichloropropane	8.83	76	129341	47.974	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.27	63	15154	208.856	ug/l #	89
59) 2-Hexanone	9.47	43	231976	248.714	ug/l	99
60) Dibromochloromethane	8.69	129	108750	53.610	ug/l	96
61) 1,2-Dibromoethane	8.96	107	78001	50.229	ug/l	100
64) Tetrachloroethene	8.13	164	103060	47.349	ug/l	97
65) Chlorobenzene	9.77	112	276337	45.775	ug/l	96
66) 1,1,1,2-Tetrachloroethane	9.91	131	111964	45.454	ug/l	94
67) Ethyl Benzene	9.88	91	505915	43.465	ug/l	95
68) m/p-Xylenes	10.11	106	376111	92.636	ug/l	98
69) o-Xylene	10.69	106	193913	42.755	ug/l	98
70) Styrene	10.77	104	266932	44.180	ug/l	99
71) Bromoform	10.76	173	50063	49.730	ug/l #	100
73) Isopropylbenzene	11.11	105	602473	48.509	ug/l	97
74) N-amyl acetate	11.36	43	142512	50.478	ug/l	93
75) 1,1,2,2-Tetrachloroethane	11.68	83	93500	47.480	ug/l	97
76) 1,2,3-Trichloropropane	11.78	75	67908	47.018	ug/l	96
77) Bromobenzene	11.48	156	117539	47.571	ug/l	91
78) n-propylbenzene	11.58	91	698427	47.165	ug/l	99
79) 2-Chlorotoluene	11.71	91	385890	46.773	ug/l	99
80) 1,3,5-Trimethylbenzene	11.81	105	482597	48.833	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.86	75	31798m	50.380	ug/l	
82) 4-Chlorotoluene	11.88	91	404808	48.287	ug/l	98
83) tert-Butylbenzene	12.12	119	486520	49.413	ug/l	97
84) 1,2,4-Trimethylbenzene	12.19	105	452519	46.120	ug/l	96
85) sec-Butylbenzene	12.29	105	656764	46.847	ug/l	96
86) p-Isopropyltoluene	12.45	119	525530	46.087	ug/l	99
87) 1,3-Dichlorobenzene	12.46	146	217801	45.138	ug/l	100
88) 1,4-Dichlorobenzene	12.56	146	223570	48.195	ug/l	97
89) n-Butylbenzene	12.83	91	553383	47.232	ug/l	99
90) Hexachloroethane	12.90	117	131283	50.331	ug/l	88
91) 1,2-Dichlorobenzene	12.93	146	211263	45.871	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.63	75	16666	50.089	ug/l	86

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.18	180	156001	49.221	ug/l	99
94) Hexachlorobutadiene	14.18	225	100382	49.198	ug/l	97
95) Naphthalene	14.44	128	292080	48.902	ug/l	98
96) 1,2,3-Trichlorobenzene	14.59	180	142355	47.682	ug/l	96

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

