

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF010819\
 Data File : VF061284.D
 Acq On : 8 Jan 2019 14:05
 Operator : VA/AP
 Sample : VSTDIC005
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 1/9/2019 11:44:39 AM

Quant Time: Jan 09 06:13:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F010819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 15:56:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	231256	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	415781	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	366445	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	184096	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.84	65	12083	4.12	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	8.24%	
35) Dibromofluoromethane	4.11	113	16167	5.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.10%	
50) Toluene-d8	7.56	98	45108	4.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.50%	
62) 4-Bromofluorobenzene	11.41	95	22107	5.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.52%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	0.97	85	21906	4.933	ug/l 95
3) Chloromethane	1.09	50	19677	5.785	ug/l 93
4) Vinyl Chloride	1.14	62	16237	5.511	ug/l # 87
5) Bromomethane	1.30	94	9615	4.773	ug/l 93
6) Chloroethane	1.38	64	8928	6.686	ug/l # 86
7) Trichlorofluoromethane	1.47	101	27846	5.252	ug/l 88
8) Diethyl Ether	1.64	74	4676	6.182	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	1.83	101	15305	5.778	ug/l # 81
10) Methyl Iodide	1.85	142	23583m	5.510	ug/l
11) Tert butyl alcohol	2.57	59	3123	25.212	ug/l # 87
12) 1,1-Dichloroethene	1.80	96	12493m	5.610	ug/l
13) Acrolein	2.01	56	4282m	36.932	ug/l
14) Allyl chloride	2.10	41	21496	6.983	ug/l # 96
15) Acrylonitrile	2.95	53	10885	32.870	ug/l # 77
16) Acetone	2.24	43	17337	29.490	ug/l # 88
17) Carbon Disulfide	1.80	76	38513m	5.680	ug/l
18) Methyl Acetate	2.35	43	6707	5.155	ug/l # 86
19) Methyl tert-butyl Ether	2.43	73	21474	4.626	ug/l 99
20) Methylene Chloride	2.19	84	15167m	5.559	ug/l
21) trans-1,2-Dichloroethene	2.32	96	12576	5.370	ug/l 97
22) Diisopropyl ether	2.80	45	45857	5.924	ug/l 96
23) Vinyl Acetate	3.19	43	64004	18.055	ug/l 97
24) 1,1-Dichloroethane	2.87	63	26275	5.790	ug/l 99
25) 2-Butanone	4.34	43	29386	26.628	ug/l 94
26) 2,2-Dichloropropane	3.61	77	15948	6.102	ug/l 97
27) cis-1,2-Dichloroethene	3.49	96	19322	5.614	ug/l 79
28) Bromochloromethane	3.73	49	12699	5.911	ug/l 96
29) Tetrahydrofuran	4.08	42	12314	28.699	ug/l 90
30) Chloroform	3.87	83	31982	5.038	ug/l 99
31) Cyclohexane	3.69	56	27942	5.809	ug/l 85
32) 1,1,1-Trichloroethane	4.10	97	23999	5.820	ug/l 95
36) 1,1-Dichloropropene	4.29	75	25106	5.127	ug/l 99
37) Ethyl Acetate	4.12	43	9680	4.951	ug/l # 51
38) Carbon Tetrachloride	3.98	117	18879	4.816	ug/l # 86

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	30296	5.788	ug/l	91
40) Benzene	4.64	78	60935	5.483	ug/l	98
41) Methacrylonitrile	4.75	41	5846	5.258	ug/l #	77
42) 1,2-Dichloroethane	4.95	62	17436	4.689	ug/l	87
43) Isopropyl Acetate	6.97	43	13171	5.049	ug/l #	84
44) Trichloroethene	5.51	130	17532	5.068	ug/l	96
45) 1,2-Dichloropropane	6.24	63	14166	4.993	ug/l	93
46) Dibromomethane	6.09	93	8246	4.417	ug/l #	81
47) Bromodichloromethane	6.39	83	21533	4.531	ug/l	98
48) Methyl methacrylate	6.72	41	6815	4.034	ug/l #	93
49) 1,4-Dioxane	6.73	88	910	77.745	ug/l #	66
51) 4-Methyl-2-Pentanone	8.26	43	46716	25.783	ug/l	99
52) Toluene	7.63	92	37375	5.150	ug/l	99
53) t-1,3-Dichloropropene	8.28	75	17651	4.556	ug/l	98
54) cis-1,3-Dichloropropene	7.31	75	22444	4.558	ug/l	93
55) 1,1,2-Trichloroethane	8.49	97	10503	5.033	ug/l	94
56) Ethyl methacrylate	8.62	69	10828	4.695	ug/l	96
57) 1,3-Dichloropropane	8.86	76	18415	4.694	ug/l	93
58) 2-Chloroethyl Vinyl ether	7.31	63	2534	9.048	ug/l	97
59) 2-Hexanone	9.50	43	36260	27.643	ug/l	88
60) Dibromochloromethane	8.72	129	12385	4.178	ug/l	100
61) 1,2-Dibromoethane	8.99	107	10136	4.500	ug/l	90
64) Tetrachloroethene	8.16	164	13741	4.893	ug/l	95
65) Chlorobenzene	9.80	112	41563	5.578	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.93	131	15792	5.161	ug/l	94
67) Ethyl Benzene	9.90	91	74736	5.456	ug/l	93
68) m/p-Xylenes	10.14	106	56993	11.401	ug/l	97
69) o-Xylene	10.72	106	30663	5.670	ug/l	90
70) Styrene	10.79	104	41400	5.561	ug/l	98
71) Bromoform	10.78	173	6414	4.502	ug/l #	85
73) Isopropylbenzene	11.13	105	89658	5.733	ug/l	96
74) N-amyl acetate	11.37	43	21842	5.532	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.70	83	14129	5.173	ug/l	89
76) 1,2,3-Trichloropropane	11.80	75	11098	5.473	ug/l	99
77) Bromobenzene	11.50	156	18267	5.564	ug/l	92
78) n-propylbenzene	11.60	91	114687	6.153	ug/l	100
79) 2-Chlorotoluene	11.73	91	62684	5.823	ug/l	99
80) 1,3,5-Trimethylbenzene	11.83	105	73997	5.861	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.88	75	4587m	4.936	ug/l	
82) 4-Chlorotoluene	11.90	91	64596	5.919	ug/l	96
83) tert-Butylbenzene	12.13	119	74233	5.703	ug/l	98
84) 1,2,4-Trimethylbenzene	12.21	105	70805	5.634	ug/l	97
85) sec-Butylbenzene	12.31	105	106214	6.016	ug/l	98
86) p-Isopropyltoluene	12.47	119	85451	5.874	ug/l	96
87) 1,3-Dichlorobenzene	12.48	146	38144	6.021	ug/l	96
88) 1,4-Dichlorobenzene	12.57	146	34246	5.541	ug/l	94
89) n-Butylbenzene	12.85	91	86951	5.817	ug/l	96
90) Hexachloroethane	12.92	117	18247	5.084	ug/l	90
91) 1,2-Dichlorobenzene	12.95	146	33262	5.436	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.65	75	2089	4.256	ug/l	93

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93) 1,2,4-Trichlorobenzene	14.20	180	22654	5.287	ug/l	98
94) Hexachlorobutadiene	14.19	225	14256	5.222	ug/l	96
95) Naphthalene	14.46	128	40042	4.999	ug/l	97
96) 1,2,3-Trichlorobenzene	14.61	180	22301	5.613	ug/l	96

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

