

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF121918\
 Data File : VF061069.D
 Acq On : 18 Dec 2018 18:53
 Operator : VA/AP
 Sample : VSTDIC010
 Misc : 5.00G/5mL/MSVOA-F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Manual Integrations
 APPROVED

apatel
 12/20/2018 10:28:41 AM

Quant Time: Dec 20 00:48:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 04:15:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	195207	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	335325	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	309077	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	162602	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	26272	11.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	22.90%	
35) Dibromofluoromethane	4.11	113	30711	11.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	23.52%	
50) Toluene-d8	7.56	98	83983	10.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	21.78%	
62) 4-Bromofluorobenzene	11.41	95	39080	11.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	22.38%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.97	85	46604	14.707	ug/l	100
3) Chloromethane	1.11	50	27285	13.435	ug/l #	84
4) Vinyl Chloride	1.14	62	23287	12.389	ug/l #	81
5) Bromomethane	1.33	94	16916	12.944	ug/l #	73
6) Chloroethane	1.40	64	11869	14.649	ug/l #	84
7) Trichlorofluoromethane	1.48	101	48479m	12.440	ug/l	
8) Diethyl Ether	1.63	74	6287	11.271	ug/l	57
9) 1,1,2-Trichlorotrifluoroet	1.84	101	25773	13.098	ug/l	95
10) Methyl Iodide	1.92	142	39601m	13.137	ug/l	
11) Tert butyl alcohol	2.58	59	4914	51.639	ug/l #	76
12) 1,1-Dichloroethene	1.80	96	19117	12.090	ug/l	90
13) Acrolein	2.00	56	4421m	53.508	ug/l	
14) Allyl chloride	2.09	41	18955	10.279	ug/l	94
15) Acrylonitrile	2.94	53	11089	50.914	ug/l #	93
16) Acetone	2.24	43	26053	59.183	ug/l	98
17) Carbon Disulfide	1.84	76	58655m	13.527	ug/l	
18) Methyl Acetate	2.35	43	12305	15.095	ug/l	95
19) Methyl tert-butyl Ether	2.43	73	41434	11.735	ug/l	95
20) Methylene Chloride	2.25	84	22227m	14.741	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	20699m	13.574	ug/l	
22) Diisopropyl ether	2.80	45	65203	12.208	ug/l #	98
23) Vinyl Acetate	3.19	43	148944	60.759	ug/l	100
24) 1,1-Dichloroethane	2.87	63	36444	11.485	ug/l	98
25) 2-Butanone	4.34	43	46371	62.272	ug/l	100
26) 2,2-Dichloropropane	3.59	77	22573	11.247	ug/l	84
27) cis-1,2-Dichloroethene	3.47	96	31734	12.840	ug/l	94
28) Bromochloromethane	3.72	49	19749	12.678	ug/l	100
29) Tetrahydrofuran	4.08	42	19337	61.575	ug/l	98
30) Chloroform	3.86	83	61237	12.499	ug/l	99
31) Cyclohexane	3.68	56	41470m	12.460	ug/l	
32) 1,1,1-Trichloroethane	4.09	97	35982	11.095	ug/l	95
36) 1,1-Dichloropropene	4.27	75	41157	10.961	ug/l	98
37) Ethyl Acetate	4.11	43	17007	11.212	ug/l #	81
38) Carbon Tetrachloride	3.99	117	35131	11.050	ug/l	87

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	5.46	83	38342m	9.823	ug/l	
40) Benzene	4.63	78	97361	11.787	ug/l	97
41) Methacrylonitrile	4.74	41	9663	10.761	ug/l #	92
42) 1,2-Dichloroethane	4.94	62	36727	12.196	ug/l	98
43) Isopropyl Acetate	6.95	43	21493	10.564	ug/l	91
44) Trichloroethene	5.50	130	29934	11.111	ug/l	98
45) 1,2-Dichloropropane	6.23	63	27269	12.762	ug/l	90
46) Dibromomethane	6.09	93	15711	10.856	ug/l	95
47) Bromodichloromethane	6.39	83	40769	10.580	ug/l #	97
48) Methyl methacrylate	6.72	41	13418	9.867	ug/l	96
49) 1,4-Dioxane	6.71	88	1599	162.629	ug/l #	81
51) 4-Methyl-2-Pentanone	8.26	43	72469	52.448	ug/l	99
52) Toluene	7.63	92	63564	10.991	ug/l	100
53) t-1,3-Dichloropropene	8.28	75	34428	11.066	ug/l	99
54) cis-1,3-Dichloropropene	7.30	75	44916	11.699	ug/l	96
55) 1,1,2-Trichloroethane	8.49	97	18615	11.185	ug/l	94
56) Ethyl methacrylate	8.62	69	19848	10.815	ug/l	99
57) 1,3-Dichloropropane	8.85	76	33120	11.338	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.30	63	19144	88.107	ug/l	99
59) 2-Hexanone	9.49	43	50411	51.628	ug/l	96
60) Dibromochloromethane	8.71	129	25440	10.235	ug/l	98
61) 1,2-Dibromoethane	8.99	107	20230	11.183	ug/l	94
64) Tetrachloroethene	8.15	164	25652	10.828	ug/l	91
65) Chlorobenzene	9.80	112	70487	11.805	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.93	131	30046	11.747	ug/l	87
67) Ethyl Benzene	9.89	91	131221	11.773	ug/l	98
68) m/p-Xylenes	10.13	106	91131	22.654	ug/l	92
69) o-Xylene	10.71	106	52330	11.819	ug/l	97
70) Styrene	10.79	104	73686	12.091	ug/l	98
71) Bromoform	10.77	173	13080	10.640	ug/l #	99
73) Isopropylbenzene	11.13	105	148299	11.390	ug/l	98
74) N-amyl acetate	11.37	43	33402	11.225	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.70	83	26550	12.434	ug/l	93
76) 1,2,3-Trichloropropane	11.80	75	18678	11.944	ug/l	98
77) Bromobenzene	11.49	156	31266	11.101	ug/l	90
78) n-propylbenzene	11.59	91	188742	12.371	ug/l	99
79) 2-Chlorotoluene	11.72	91	106623	12.174	ug/l	97
80) 1,3,5-Trimethylbenzene	11.83	105	132163	12.513	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.87	75	7584m	10.081	ug/l	
82) 4-Chlorotoluene	11.90	91	112029	12.199	ug/l	97
83) tert-Butylbenzene	12.13	119	133003	12.310	ug/l	99
84) 1,2,4-Trimethylbenzene	12.20	105	126885	12.153	ug/l	99
85) sec-Butylbenzene	12.30	105	172213	11.759	ug/l	97
86) p-Isopropyltoluene	12.46	119	148524	12.057	ug/l	99
87) 1,3-Dichlorobenzene	12.47	146	64748	12.088	ug/l	96
88) 1,4-Dichlorobenzene	12.57	146	60109	11.508	ug/l	99
89) n-Butylbenzene	12.84	91	158050	12.749	ug/l	92
90) Hexachloroethane	12.91	117	33235	11.248	ug/l	92
91) 1,2-Dichlorobenzene	12.94	146	59874	11.751	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.64	75	4233	10.253	ug/l	92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	41846	11.744	ug/l	99
94) Hexachlorobutadiene	14.19	225	25971	10.948	ug/l	93
95) Naphthalene	14.45	128	70098	8.962	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	37412	11.159	ug/l	96

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

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