

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF010819\
 Data File : VF061290.D
 Acq On : 8 Jan 2019 16:55
 Operator : VA/AP
 Sample : VSTDIC150
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC150

Manual Integrations
 APPROVED

MMDadoda
 1/9/2019 11:45:10 AM

Quant Time: Jan 09 06:27:10 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	4.89	168	186602	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.61	114	329449	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.79	117	310494	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	167319	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.86	65	301360	127.23	ug/l	0.00
Spiked Amount 50.000			Recovery	=	254.46%	
35) Dibromofluoromethane	4.13	113	349861	138.03	ug/l	0.01
Spiked Amount 50.000			Recovery	=	276.06%	
50) Toluene-d8	7.57	98	997508	132.62	ug/l	0.00
Spiked Amount 50.000			Recovery	=	265.24%	
62) 4-Bromofluorobenzene	11.42	95	434889	130.49	ug/l	0.00
Spiked Amount 50.000			Recovery	=	260.98%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	487236	135.990	ug/l	93
3) Chloromethane	1.09	50	410900	149.702	ug/l	97
4) Vinyl Chloride	1.14	62	369605	155.462	ug/l	99
5) Bromomethane	1.30	94	251346	154.633	ug/l	91
6) Chloroethane	1.38	64	173045	160.606	ug/l	95
7) Trichlorofluoromethane	1.48	101	649276	151.759	ug/l	98
8) Diethyl Ether	1.63	74	96307	157.787	ug/l	83
9) 1,1,2-Trichlorotrifluoroet	1.82	101	318806	149.148	ug/l	98
10) Methyl Iodide	1.85	142	524998m	152.016	ug/l	
11) Tert butyl alcohol	2.57	59	57293	573.214	ug/l #	87
12) 1,1-Dichloroethene	1.76	96	264256	147.072	ug/l	89
13) Acrolein	2.01	56	58901	629.595	ug/l	96
14) Allyl chloride	2.11	41	491903	198.027	ug/l	96
15) Acrylonitrile	2.96	53	208908	781.811	ug/l	93
16) Acetone	2.25	43	301779	636.165	ug/l	93
17) Carbon Disulfide	1.77	76	848477	155.079	ug/l	98
18) Methyl Acetate	2.35	43	127399	121.361	ug/l	99
19) Methyl tert-butyl Ether	2.43	73	521190	139.158	ug/l	100
20) Methylene Chloride	2.19	84	260667	118.402	ug/l	96
21) trans-1,2-Dichloroethene	2.31	96	295732	156.490	ug/l	96
22) Diisopropyl ether	2.81	45	949168	151.963	ug/l	98
23) Vinyl Acetate	3.19	43	1572912	549.882	ug/l	98
24) 1,1-Dichloroethane	2.88	63	573346	156.565	ug/l	99
25) 2-Butanone	4.35	43	498373	559.667	ug/l	99
26) 2,2-Dichloropropane	3.61	77	355202	168.434	ug/l	97
27) cis-1,2-Dichloroethene	3.49	96	398265	143.419	ug/l	95
28) Bromochloromethane	3.73	49	232793	134.284	ug/l	94
29) Tetrahydrofuran	4.08	42	217872	629.278	ug/l	98
30) Chloroform	3.87	83	688607	134.432	ug/l	99
31) Cyclohexane	3.71	56	577406	148.761	ug/l	99
32) 1,1,1-Trichloroethane	4.11	97	586103	176.159	ug/l	100
36) 1,1-Dichloropropene	4.30	75	531379	136.951	ug/l	99
37) Ethyl Acetate	4.12	43	196770	127.014	ug/l #	85
38) Carbon Tetrachloride	4.01	117	563247m	181.320	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.47	83	617845	148.965	ug/l	99
40) Benzene	4.64	78	1157470	131.443	ug/l	99
41) Methacrylonitrile	4.76	41	111215	126.251	ug/l	94
42) 1,2-Dichloroethane	4.96	62	404867	137.417	ug/l	99
43) Isopropyl Acetate	6.97	43	263628	127.535	ug/l #	97
44) Trichloroethene	5.52	130	340518	124.230	ug/l	93
45) 1,2-Dichloropropane	6.25	63	309195	137.532	ug/l	99
46) Dibromomethane	6.10	93	206586	139.649	ug/l	95
47) Bromodichloromethane	6.40	83	503590	133.732	ug/l	97
48) Methyl methacrylate	6.72	41	172906	129.177	ug/l	94
49) 1,4-Dioxane	6.72	88	21893	2360.551	ug/l #	89
51) 4-Methyl-2-Pentanone	8.27	43	895591	623.808	ug/l	99
52) Toluene	7.64	92	758309	131.884	ug/l	93
53) t-1,3-Dichloropropene	8.29	75	389545	126.897	ug/l	96
54) cis-1,3-Dichloropropene	7.32	75	529542	135.724	ug/l	97
55) 1,1,2-Trichloroethane	8.51	97	229257	138.648	ug/l	98
56) Ethyl methacrylate	8.63	69	250931	137.314	ug/l	95
57) 1,3-Dichloropropane	8.86	76	400820	128.953	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.31	63	54196	244.215	ug/l #	90
59) 2-Hexanone	9.51	43	628078	604.285	ug/l	98
60) Dibromochloromethane	8.73	129	328109	139.697	ug/l	99
61) 1,2-Dibromoethane	9.00	107	242371	135.816	ug/l	100
64) Tetrachloroethene	8.16	164	310244	130.383	ug/l	98
65) Chlorobenzene	9.81	112	852803	135.073	ug/l	94
66) 1,1,1,2-Tetrachloroethane	9.95	131	338095	130.396	ug/l	99
67) Ethyl Benzene	9.91	91	1476529	127.218	ug/l	91
68) m/p-Xylenes	10.15	106	1042292	246.078	ug/l	86
69) o-Xylene	10.73	106	615959	134.431	ug/l	90
70) Styrene	10.80	104	805044	127.631	ug/l	98
71) Bromoform	10.79	173	157227	130.248	ug/l #	98
73) Isopropylbenzene	11.13	105	1643611	115.644	ug/l	96
74) N-amyl acetate	11.38	43	389019	108.414	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.71	83	301123	121.296	ug/l	98
76) 1,2,3-Trichloropropane	11.80	75	214482	116.382	ug/l	97
77) Bromobenzene	11.51	156	358625	120.197	ug/l	94
78) n-propylbenzene	11.61	91	1852575	109.355	ug/l	94
79) 2-Chlorotoluene	11.73	91	1135841	116.094	ug/l	96
80) 1,3,5-Trimethylbenzene	11.83	105	1307723	113.973	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.88	75	105711m	125.152	ug/l	
82) 4-Chlorotoluene	11.91	91	1150406	115.990	ug/l	97
83) tert-Butylbenzene	12.14	119	1336933	113.009	ug/l	96
84) 1,2,4-Trimethylbenzene	12.22	105	1366302	119.614	ug/l	94
85) sec-Butylbenzene	12.32	105	1836183	114.423	ug/l	93
86) p-Isopropyltoluene	12.46	119	1471451	111.286	ug/l	96
87) 1,3-Dichlorobenzene	12.48	146	659089	114.478	ug/l	98
88) 1,4-Dichlorobenzene	12.57	146	697738	124.209	ug/l	97
89) n-Butylbenzene	12.85	91	1478279	108.817	ug/l	93
90) Hexachloroethane	12.93	117	403716	123.760	ug/l	86
91) 1,2-Dichlorobenzene	12.95	146	661936	119.017	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.65	75	59967	134.417	ug/l	79

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93) 1,2,4-Trichlorobenzene	14.21	180	461871	118.596	ug/l	97
94) Hexachlorobutadiene	14.20	225	308057	124.151	ug/l	96
95) Naphthalene	14.47	128	994752	136.650	ug/l	98
96) 1,2,3-Trichlorobenzene	14.62	180	442416	122.521	ug/l	94

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

