

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF111318\
 Data File : VF060713.D
 Acq On : 13 Nov 2018 14:53
 Operator : VA/AP
 Sample : VSTDICV050
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 ICVVVF111318

Manual Integrations
 APPROVED

MMDadoda
 11/14/2018 12:55:33 PM

Quant Time: Nov 14 03:41:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 14 03:11:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	246334	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.60	114	402901	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.78	117	373393	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	207755	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	127691	45.45	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	90.90%	
35) Dibromofluoromethane	4.11	113	145806	48.14	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	96.28%	
50) Toluene-d8	7.57	98	433179	56.19	ug/l	0.00
Spiked Amount 50.000			Recovery	=	112.38%	
62) 4-Bromofluorobenzene	11.42	95	190566	53.45	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.90%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	194405	44.098	ug/l	99
3) Chloromethane	1.09	50	127522	46.642	ug/l	97
4) Vinyl Chloride	1.13	62	112753	46.101	ug/l	99
5) Bromomethane	1.32	94	70971	45.682	ug/l #	79
6) Chloroethane	1.36	64	49517	51.747	ug/l	97
7) Trichlorofluoromethane	1.48	101	246752	45.624	ug/l	96
8) Diethyl Ether	1.63	74	32124	46.358	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	1.81	101	121190	47.550	ug/l	95
10) Methyl Iodide	1.88	142	188445	46.083	ug/l	96
11) Tert butyl alcohol	2.56	59	31004	242.459	ug/l	97
12) 1,1-Dichloroethene	1.77	96	98405	48.965	ug/l	93
13) Acrolein	2.00	56	25629	219.200	ug/l	98
14) Allyl chloride	2.09	41	164557	46.740	ug/l	91
15) Acrylonitrile	2.94	53	65808	241.515	ug/l	98
16) Acetone	2.23	43	145440	242.174	ug/l	100
17) Carbon Disulfide	1.81	76	292539	48.162	ug/l	95
18) Methyl Acetate	2.34	43	45134	45.768	ug/l	97
19) Methyl tert-butyl Ether	2.43	73	233615	48.455	ug/l	99
20) Methylene Chloride	2.18	84	95430m	47.679	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	94784	45.142	ug/l	92
22) Diisopropyl ether	2.80	45	329681	48.502	ug/l	98
23) Vinyl Acetate	3.19	43	831535	259.789	ug/l	100
24) 1,1-Dichloroethane	2.87	63	203334	49.411	ug/l	99
25) 2-Butanone	4.33	43	246352	249.390	ug/l	100
26) 2,2-Dichloropropane	3.60	77	147882	45.666	ug/l	99
27) cis-1,2-Dichloroethene	3.47	96	169993	47.593	ug/l	100
28) Bromochloromethane	3.72	49	105996	49.562	ug/l	92
29) Tetrahydrofuran	4.07	42	96059	235.751	ug/l	95
30) Chloroform	3.86	83	295895	44.815	ug/l	100
31) Cyclohexane	3.69	56	247176	49.489	ug/l	93
32) 1,1,1-Trichloroethane	4.09	97	228282	43.905	ug/l	97
36) 1,1-Dichloropropene	4.28	75	233007	49.866	ug/l	98
37) Ethyl Acetate	4.11	43	84647	48.726	ug/l #	80
38) Carbon Tetrachloride	3.99	117	214067m	47.214	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	262642	48.449	ug/l	99
40) Benzene	4.64	78	518945	49.822	ug/l	100
41) Methacrylonitrile	4.74	41	50945	55.478	ug/l #	90
42) 1,2-Dichloroethane	4.94	62	168715	46.872	ug/l	100
43) Isopropyl Acetate	6.96	43	122527	53.196	ug/l	94
44) Trichloroethene	5.51	130	159130	48.422	ug/l	88
45) 1,2-Dichloropropane	6.24	63	137206	50.621	ug/l	96
46) Dibromomethane	6.10	93	88626	49.534	ug/l	93
47) Bromodichloromethane	6.39	83	223523	48.923	ug/l	99
48) Methyl methacrylate	6.72	41	78953	51.794	ug/l	100
49) 1,4-Dioxane	6.72	88	15020	1053.550	ug/l #	78
51) 4-Methyl-2-Pentanone	8.27	43	418692	251.335	ug/l	97
52) Toluene	7.63	92	334032	47.855	ug/l	98
53) t-1,3-Dichloropropene	8.29	75	176606	48.260	ug/l	96
54) cis-1,3-Dichloropropene	7.31	75	232200	48.849	ug/l	97
55) 1,1,2-Trichloroethane	8.50	97	95812	48.042	ug/l	95
56) Ethyl methacrylate	8.63	69	116449	51.413	ug/l	98
57) 1,3-Dichloropropane	8.86	76	171641	49.660	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.63	63	48908	236.382	ug/l	100
59) 2-Hexanone	9.50	43	326793	279.138	ug/l	99
60) Dibromochloromethane	8.72	129	136718	48.101	ug/l	97
61) 1,2-Dibromoethane	9.00	107	105496	50.298	ug/l	98
64) Tetrachloroethene	8.16	164	138694	46.906	ug/l	98
65) Chlorobenzene	9.80	112	358081	47.524	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.94	131	149913	45.616	ug/l	98
67) Ethyl Benzene	9.91	91	653723	46.028	ug/l	99
68) m/p-Xylenes	10.14	106	477967	94.169	ug/l	100
69) o-Xylene	10.72	106	276448	48.445	ug/l	94
70) Styrene	10.80	104	368689	47.607	ug/l	100
71) Bromoform	10.78	173	71204	48.181	ug/l	99
73) Isopropylbenzene	11.14	105	777472	46.492	ug/l	100
74) N-amyl acetate	11.38	43	207043	54.386	ug/l #	90
75) 1,1,2,2-Tetrachloroethane	11.71	83	133505	48.288	ug/l	98
76) 1,2,3-Trichloropropane	11.81	75	91667	44.643	ug/l	96
77) Bromobenzene	11.50	156	166890	47.944	ug/l	93
78) n-propylbenzene	11.60	91	870723	44.644	ug/l	98
79) 2-Chlorotoluene	11.73	91	516000	45.520	ug/l	97
80) 1,3,5-Trimethylbenzene	11.84	105	609842	45.934	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.88	75	44730m	44.341	ug/l	
82) 4-Chlorotoluene	11.91	91	525608	45.261	ug/l	100
83) tert-Butylbenzene	12.14	119	632794	44.890	ug/l	97
84) 1,2,4-Trimethylbenzene	12.21	105	600858	43.760	ug/l	95
85) sec-Butylbenzene	12.31	105	859244	44.934	ug/l	97
86) p-Isopropyltoluene	12.47	119	702138	43.964	ug/l	98
87) 1,3-Dichlorobenzene	12.49	146	308823	44.581	ug/l	98
88) 1,4-Dichlorobenzene	12.58	146	309693	46.516	ug/l	96
89) n-Butylbenzene	12.85	91	712694	43.728	ug/l	96
90) Hexachloroethane	12.92	117	180061	46.095	ug/l	92
91) 1,2-Dichlorobenzene	12.95	146	289947	44.454	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.65	75	23503	45.229	ug/l	81

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	206213	43.987	ug/l	95
94) Hexachlorobutadiene	14.19	225	137431	44.861	ug/l	98
95) Naphthalene	14.46	128	421996	49.332	ug/l	99
96) 1,2,3-Trichlorobenzene	14.61	180	196564	45.375	ug/l	97

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

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