

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032219\
 Data File : VF062095.D
 Acq On : 22 Mar 2019 23:36
 Operator : VA/AP
 Sample : VF0322SBS02
 Misc : 5.00µg/5mL/MSVOA-F/SOIL
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0322SBS02

Manual Integrations
 APPROVED

MMDadoda
 3/29/2019 10:25:22 AM

Quant Time: Mar 23 06:46:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 01:16:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	258304	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.62	114	420585	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.80	117	353462	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.57	152	179734	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.87	65	105947	55.14	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	110.28%	
35) Dibromofluoromethane	4.14	113	149821	52.66	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	105.32%	
50) Toluene-d8	7.58	98	432699	50.95	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	101.90%	
62) 4-Bromofluorobenzene	11.43	95	172955	52.75	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	105.50%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	75052	22.681	ug/l	100
3) Chloromethane	1.10	50	76050	21.964	ug/l	97
4) Vinyl Chloride	1.15	62	72979	22.787	ug/l	98
5) Bromomethane	1.33	94	49981	21.710	ug/l	96
6) Chloroethane	1.41	64	35691	22.137	ug/l	96
7) Trichlorofluoromethane	1.50	101	86575m	22.382	ug/l	
8) Diethyl Ether	1.64	74	16427	18.592	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	1.86	101	54522	20.661	ug/l	98
10) Methyl Iodide	1.94	142	111163m	22.168	ug/l	
11) Tert butyl alcohol	2.60	59	10914	103.242	ug/l	95
12) 1,1-Dichloroethene	1.81	96	54063	21.713	ug/l	92
13) Acrolein	2.01	56	13767	108.299	ug/l	94
14) Allyl chloride	2.11	41	55715	20.959	ug/l	97
15) Acrylonitrile	2.96	53	38211	102.791	ug/l	92
16) Acetone	2.26	43	32035	79.223	ug/l	97
17) Carbon Disulfide	1.84	76	162643m	21.421	ug/l	
18) Methyl Acetate	2.36	43	20052	20.788	ug/l	94
19) Methyl tert-butyl Ether	2.44	73	83705	21.271	ug/l	95
20) Methylene Chloride	2.27	84	55569m	20.993	ug/l	
21) trans-1,2-Dichloroethene	2.32	96	45354	18.932	ug/l	94
22) Diisopropyl ether	2.82	45	157842	22.647	ug/l	96
23) Vinyl Acetate	3.21	43	317670	111.324	ug/l	97
24) 1,1-Dichloroethane	2.89	63	94711	22.661	ug/l	100
25) 2-Butanone	4.37	43	84219	99.766	ug/l	100
26) 2,2-Dichloropropane	3.62	77	34178	20.169	ug/l	90
27) cis-1,2-Dichloroethene	3.50	96	72544	22.852	ug/l	98
28) Bromochloromethane	3.74	49	40066	23.462	ug/l	97
29) Tetrahydrofuran	4.10	42	38219	104.130	ug/l	98
30) Chloroform	3.88	83	101919	23.074	ug/l	99
31) Cyclohexane	3.71	56	98243m	22.506	ug/l	
32) 1,1,1-Trichloroethane	4.12	97	54101	20.135	ug/l	97
36) 1,1-Dichloropropene	4.31	75	79277	19.789	ug/l	97
37) Ethyl Acetate	4.14	43	33199	18.963	ug/l #	96
38) Carbon Tetrachloride	4.02	117	55555	20.347	ug/l	95

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

39) Methylcyclohexane	5.48	83	93385	20.085	ug/l	97
40) Benzene	4.66	78	223077	20.772	ug/l	100
41) Methacrylonitrile	4.78	41	18983	20.492	ug/l #	85
42) 1,2-Dichloroethane	4.97	62	53268	20.975	ug/l	97
43) Isopropyl Acetate	6.98	43	41989	19.804	ug/l #	96
44) Trichloroethene	5.53	130	69439	21.148	ug/l	97
45) 1,2-Dichloropropane	6.26	63	52996	20.690	ug/l	96
46) Dibromomethane	6.11	93	31099	19.857	ug/l	96
47) Bromodichloromethane	6.41	83	69340	19.988	ug/l	97
48) Methyl methacrylate	6.74	41	24271	20.105	ug/l	96
49) 1,4-Dioxane	6.74	88	3654	344.946	ug/l #	79
51) 4-Methyl-2-Pentanone	8.28	43	145344	102.418	ug/l	98
52) Toluene	7.65	92	129990	20.897	ug/l	99
53) t-1,3-Dichloropropene	8.30	75	56226	20.646	ug/l	94
54) cis-1,3-Dichloropropene	7.32	75	76321	19.587	ug/l	92
55) 1,1,2-Trichloroethane	8.51	97	35012	19.816	ug/l	97
56) Ethyl methacrylate	8.64	69	42051	19.956	ug/l	95
57) 1,3-Dichloropropane	8.87	76	60599	20.665	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.31	63	30281	94.702	ug/l	97
59) 2-Hexanone	9.51	43	98758	94.952	ug/l	97
60) Dibromochloromethane	8.73	129	50782	20.675	ug/l	99
61) 1,2-Dibromoethane	9.01	107	38013	20.166	ug/l	98
64) Tetrachloroethene	8.17	164	59930	21.946	ug/l	97
65) Chlorobenzene	9.82	112	141024	21.324	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.96	131	55696	20.966	ug/l	96
67) Ethyl Benzene	9.92	91	246703	21.450	ug/l	97
68) m/p-Xylenes	10.15	106	188385	43.823	ug/l	98
69) o-Xylene	10.74	106	93621	20.794	ug/l	98
70) Styrene	10.80	104	142741	20.925	ug/l	97
71) Bromoform	10.79	173	26549	19.539	ug/l #	93
73) Isopropylbenzene	11.14	105	283213	22.393	ug/l	97
74) N-amyl acetate	11.39	43	66180	21.961	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.71	83	45758	21.071	ug/l	96
76) 1,2,3-Trichloropropane	11.81	75	33169	21.704	ug/l	100
77) Bromobenzene	11.51	156	65705	21.264	ug/l	95
78) n-propylbenzene	11.61	91	311875	21.237	ug/l	99
79) 2-Chlorotoluene	11.73	91	185319	22.703	ug/l	93
80) 1,3,5-Trimethylbenzene	11.84	105	239329	23.006	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.88	75	10814m	17.366	ug/l	
82) 4-Chlorotoluene	11.91	91	176457	21.084	ug/l	97
83) tert-Butylbenzene	12.15	119	242908	22.306	ug/l	96
84) 1,2,4-Trimethylbenzene	12.21	105	223210	21.887	ug/l	94
85) sec-Butylbenzene	12.32	105	311408	22.105	ug/l	100
86) p-Isopropyltoluene	12.47	119	270539	22.166	ug/l	97
87) 1,3-Dichlorobenzene	12.49	146	120437	20.980	ug/l	96
88) 1,4-Dichlorobenzene	12.58	146	118578	21.168	ug/l	98
89) n-Butylbenzene	12.86	91	258394	22.190	ug/l	96
90) Hexachloroethane	12.93	117	63229	21.756	ug/l	80
91) 1,2-Dichlorobenzene	12.95	146	116090	21.536	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.65	75	6550	19.907	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.22	180	79498	21.161	µg/l	95
94) Hexachlorobutadiene	14.21	225	52683	21.090	µg/l	96
95) Naphthalene	14.47	128	136441	20.724	µg/l	99
96) 1,2,3-Trichlorobenzene	14.62	180	73776	20.979	µg/l	95

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

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