

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030419\
 Data File : VF061831.D
 Acq On : 4 Mar 2019 21:19
 Operator : VA/AP
 Sample : VF0304SBS01
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0304SBS01

Manual Integrations
 APPROVED

MMDadoda
 3/5/2019 10:48:16 AM

Quant Time: Mar 05 05:42:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:04:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	310918	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.60	114	455386	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.78	117	391447	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.55	152	198057	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	113480	49.77	ug/l	-0.01
Spiked Amount 50.000			Recovery =	99.54%		
35) Dibromofluoromethane	4.11	113	148182	43.82	ug/l	-0.01
Spiked Amount 50.000			Recovery =	87.64%		
50) Toluene-d8	7.55	98	423674	43.58	ug/l	-0.01
Spiked Amount 50.000			Recovery =	87.16%		
62) 4-Bromofluorobenzene	11.40	95	167950	42.70	ug/l	-0.01
Spiked Amount 50.000			Recovery =	85.40%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	87413	24.482	ug/l	98
3) Chloromethane	1.09	50	81705	21.810	ug/l	98
4) Vinyl Chloride	1.14	62	74712	21.453	ug/l	99
5) Bromomethane	1.33	94	49569	20.680	ug/l	90
6) Chloroethane	1.41	64	35693	20.797	ug/l	97
7) Trichlorofluoromethane	1.47	101	95213m	22.667	ug/l	
8) Diethyl Ether	1.63	74	20462	19.330	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	1.85	101	62593	20.656	ug/l #	88
10) Methyl Iodide	1.92	142	120761m	20.862	ug/l	
11) Tert butyl alcohol	2.58	59	15188	115.102	ug/l	98
12) 1,1-Dichloroethene	1.81	96	54995	20.642	ug/l	91
13) Acrolein	2.01	56	15418m	92.969	ug/l	
14) Allyl chloride	2.10	41	56149	17.174	ug/l	96
15) Acrylonitrile	2.94	53	41668	89.027	ug/l	98
16) Acetone	2.24	43	46496	95.047	ug/l	95
17) Carbon Disulfide	1.84	76	177933m	21.247	ug/l	
18) Methyl Acetate	2.35	43	22372	20.301	ug/l	93
19) Methyl tert-butyl Ether	2.43	73	95078	20.881	ug/l	94
20) Methylene Chloride	2.26	84	65011m	22.000	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	46191	15.949	ug/l	95
22) Diisopropyl ether	2.80	45	171329	21.831	ug/l	96
23) Vinyl Acetate	3.19	43	385281	100.514	ug/l	95
24) 1,1-Dichloroethane	2.87	63	96055	20.225	ug/l	98
25) 2-Butanone	4.34	43	97985	91.700	ug/l	97
26) 2,2-Dichloropropane	3.59	77	39146	19.459	ug/l	94
27) cis-1,2-Dichloroethene	3.48	96	68950	18.137	ug/l	95
28) Bromochloromethane	3.71	49	41035	18.008	ug/l	87
29) Tetrahydrofuran	4.08	42	45904	94.519	ug/l	95
30) Chloroform	3.86	83	105565	19.546	ug/l	99
31) Cyclohexane	3.68	56	102173m	19.873	ug/l	
32) 1,1,1-Trichloroethane	4.09	97	58851	16.634	ug/l	97
36) 1,1-Dichloropropene	4.28	75	94943	21.046	ug/l	93
37) Ethyl Acetate	4.12	43	42685	20.372	ug/l	99
38) Carbon Tetrachloride	3.98	117	61699	19.807	ug/l	94

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39) Methylcyclohexane	5.45	83	106054	19.878	ug/l	99
40) Benzene	4.63	78	227424	19.274	ug/l	100
41) Methacrylonitrile	4.75	41	22372	20.878	ug/l	94
42) 1,2-Dichloroethane	4.95	62	58111	20.588	ug/l	92
43) Isopropyl Acetate	6.96	43	46025	18.557	ug/l #	85
44) Trichloroethene	5.50	130	75845	19.877	ug/l	96
45) 1,2-Dichloropropane	6.24	63	55615	19.499	ug/l	93
46) Dibromomethane	6.08	93	35299	20.101	ug/l	87
47) Bromodichloromethane	6.39	83	77336	20.110	ug/l	98
48) Methyl methacrylate	6.72	41	28967	19.408	ug/l	87
49) 1,4-Dioxane	6.71	88	5668	403.968	ug/l #	81
51) 4-Methyl-2-Pentanone	8.26	43	176659	99.684	ug/l	99
52) Toluene	7.62	92	140702	19.661	ug/l	94
53) t-1,3-Dichloropropene	8.28	75	64529	20.161	ug/l	99
54) cis-1,3-Dichloropropene	7.30	75	88531	20.766	ug/l	96
55) 1,1,2-Trichloroethane	8.49	97	39523	18.797	ug/l	93
56) Ethyl methacrylate	8.62	69	47121	20.129	ug/l	94
57) 1,3-Dichloropropane	8.85	76	63647	18.136	ug/l	90
58) 2-Chloroethyl Vinyl ether	7.29	63	38218	94.623	ug/l	94
59) 2-Hexanone	9.49	43	119622	96.294	ug/l	97
60) Dibromochloromethane	8.71	129	53544	18.296	ug/l	96
61) 1,2-Dibromoethane	8.99	107	44854	19.668	ug/l	94
64) Tetrachloroethene	8.15	164	64069	20.024	ug/l	97
65) Chlorobenzene	9.80	112	159853	20.124	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.93	131	63420	20.375	ug/l	95
67) Ethyl Benzene	9.90	91	263600	19.955	ug/l	99
68) m/p-Xylenes	10.13	106	199819	39.525	ug/l	97
69) o-Xylene	10.71	106	108520	20.117	ug/l	95
70) Styrene	10.78	104	147295	19.301	ug/l	98
71) Bromoform	10.77	173	34077	20.161	ug/l	95
73) Isopropylbenzene	11.12	105	316583	22.451	ug/l	99
74) N-amyl acetate	11.37	43	78353	23.149	ug/l	94
75) 1,1,2,2-Tetrachloroethane	11.69	83	54748	21.671	ug/l	97
76) 1,2,3-Trichloropropane	11.79	75	35751	20.815	ug/l	100
77) Bromobenzene	11.49	156	72219	20.731	ug/l	93
78) n-propylbenzene	11.59	91	341887	21.128	ug/l	99
79) 2-Chlorotoluene	11.72	91	199699	22.036	ug/l	95
80) 1,3,5-Trimethylbenzene	11.82	105	260250	23.092	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.87	75	16769m	20.365	ug/l	
82) 4-Chlorotoluene	11.90	91	204135	21.702	ug/l	95
83) tert-Butylbenzene	12.12	119	278111	22.279	ug/l	95
84) 1,2,4-Trimethylbenzene	12.20	105	256575	22.915	ug/l	96
85) sec-Butylbenzene	12.30	105	345592	21.409	ug/l	94
86) p-Isopropyltoluene	12.46	119	306350	22.613	ug/l	100
87) 1,3-Dichlorobenzene	12.47	146	146103	21.513	ug/l	98
88) 1,4-Dichlorobenzene	12.57	146	135052	20.677	ug/l	97
89) n-Butylbenzene	12.84	91	281641	22.016	ug/l	96
90) Hexachloroethane	12.91	117	73524	23.335	ug/l	87
91) 1,2-Dichlorobenzene	12.94	146	135315	20.948	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.64	75	8418	21.017	ug/l	89

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	96160	20.768	µg/l	96
94) Hexachlorobutadiene	14.19	225	64074	22.407	µg/l	97
95) Naphthalene	14.45	128	170752	21.078	µg/l	98
96) 1,2,3-Trichlorobenzene	14.60	180	88707	20.873	µg/l	99

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

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