

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030419\
 Data File : VF061823.D
 Acq On : 4 Mar 2019 16:33
 Operator : VA/AP
 Sample : VSTDIC010
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Manual Integrations
 APPROVED

MMDadoda
 3/5/2019 10:47:13 AM

Quant Time: Mar 05 04:45:28 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	4.88	168	334530	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.61	114	491479	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	429765	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.56	152	241988	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.86	65	23915	9.75	ug/l	0.00
Spiked Amount			Recovery	=	19.50%	
35) Dibromofluoromethane	4.12	113	36303	9.95	ug/l	0.00
Spiked Amount			Recovery	=	19.90%	
50) Toluene-d8	7.56	98	105844	10.09	ug/l	0.00
Spiked Amount			Recovery	=	20.18%	
62) 4-Bromofluorobenzene	11.42	95	43255	10.19	ug/l	0.00
Spiked Amount			Recovery	=	20.38%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	45529	11.851	ug/l	99
3) Chloromethane	1.10	50	41616	10.325	ug/l	98
4) Vinyl Chloride	1.14	62	39202	10.462	ug/l	93
5) Bromomethane	1.32	94	27569	10.690	ug/l	92
6) Chloroethane	1.40	64	19012	10.296	ug/l	89
7) Trichlorofluoromethane	1.49	101	47535	10.518	ug/l	85
8) Diethyl Ether	1.63	74	10906	9.575	ug/l	85
9) 1,1,2-Trichlorotrifluoroet	1.84	101	32425	9.945	ug/l #	94
10) Methyl Iodide	1.90	142	61103m	9.811	ug/l	
11) Tert butyl alcohol	2.58	59	7457	52.524	ug/l	96
12) 1,1-Dichloroethene	1.80	96	31055	10.833	ug/l	98
13) Acrolein	2.01	56	8688	48.690	ug/l	94
14) Allyl chloride	2.10	41	31646	8.996	ug/l	91
15) Acrylonitrile	2.95	53	20102	39.918	ug/l #	84
16) Acetone	2.25	43	25638	48.710	ug/l	93
17) Carbon Disulfide	1.84	76	90759m	10.072	ug/l	
18) Methyl Acetate	2.35	43	14240	12.010	ug/l #	88
19) Methyl tert-butyl Ether	2.44	73	45452	9.278	ug/l	98
20) Methylene Chloride	2.19	84	45225m	14.224	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	28817	9.247	ug/l	92
22) Diisopropyl ether	2.81	45	81041	9.598	ug/l	92
23) Vinyl Acetate	3.19	43	178428	43.264	ug/l #	93
24) 1,1-Dichloroethane	2.88	63	51415	10.062	ug/l	98
25) 2-Butanone	4.36	43	52214	45.416	ug/l	93
26) 2,2-Dichloropropane	3.61	77	22419	10.358	ug/l	97
27) cis-1,2-Dichloroethene	3.49	96	35701	8.728	ug/l	98
28) Bromochloromethane	3.72	49	22136	9.029	ug/l	93
29) Tetrahydrofuran	4.09	42	22879	43.784	ug/l	93
30) Chloroform	3.87	83	56194	9.670	ug/l	95
31) Cyclohexane	3.70	56	53874	9.739	ug/l	86
32) 1,1,1-Trichloroethane	4.11	97	33833	8.888	ug/l	95
36) 1,1-Dichloropropene	4.29	75	46522	9.555	ug/l	91
37) Ethyl Acetate	4.12	43	19328	8.547	ug/l #	79
38) Carbon Tetrachloride	3.99	117	33534	9.975	ug/l	87

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

39) Methylcyclohexane	5.46	83	55877	9.704	ug/l #	90
40) Benzene	4.64	78	125931	9.889	ug/l	100
41) Methacrylonitrile	4.75	41	10592	9.159	ug/l	90
42) 1,2-Dichloroethane	4.95	62	31535	10.352	ug/l	92
43) Isopropyl Acetate	6.97	43	23251	8.686	ug/l #	89
44) Trichloroethene	5.51	130	38237	9.285	ug/l	96
45) 1,2-Dichloropropane	6.24	63	27959	9.083	ug/l #	86
46) Dibromomethane	6.09	93	18406	9.711	ug/l #	83
47) Bromodichloromethane	6.39	83	40471	9.751	ug/l	96
48) Methyl methacrylate	6.72	41	15080	9.361	ug/l	95
49) 1,4-Dioxane	6.72	88	2651	175.066	ug/l	95
51) 4-Methyl-2-Pentanone	8.26	43	89023	46.544	ug/l	99
52) Toluene	7.63	92	73332	9.495	ug/l	87
53) t-1,3-Dichloropropene	8.28	75	33513	9.702	ug/l	98
54) cis-1,3-Dichloropropene	7.30	75	45209	9.826	ug/l	91
55) 1,1,2-Trichloroethane	8.50	97	21084	9.291	ug/l	97
56) Ethyl methacrylate	8.63	69	24191	9.575	ug/l #	86
57) 1,3-Dichloropropane	8.86	76	32604	8.608	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.30	63	18219	41.796	ug/l	92
59) 2-Hexanone	9.50	43	61911	46.178	ug/l	98
60) Dibromochloromethane	8.72	129	27930	8.843	ug/l	85
61) 1,2-Dibromoethane	8.99	107	22244	9.038	ug/l	87
64) Tetrachloroethene	8.16	164	33990	9.676	ug/l	95
65) Chlorobenzene	9.81	112	81047	9.293	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.94	131	32118	9.399	ug/l	97
67) Ethyl Benzene	9.91	91	141356	9.747	ug/l	99
68) m/p-Xylenes	10.13	106	110241	19.862	ug/l	90
69) o-Xylene	10.72	106	57646	9.733	ug/l	86
70) Styrene	10.79	104	81478	9.725	ug/l	97
71) Bromoform	10.77	173	16586	8.938	ug/l	98
73) Isopropylbenzene	11.13	105	164948	9.574	ug/l	99
74) N-amyl acetate	11.38	43	38877	9.401	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.70	83	26038	8.436	ug/l	91
76) 1,2,3-Trichloropropane	11.80	75	18793	8.955	ug/l	89
77) Bromobenzene	11.50	156	40016	9.401	ug/l	95
78) n-propylbenzene	11.60	91	197006	9.964	ug/l	95
79) 2-Chlorotoluene	11.72	91	111418	10.062	ug/l	95
80) 1,3,5-Trimethylbenzene	11.83	105	138446	10.054	ug/l	93
81) trans-1,4-Dichloro-2-buten	11.88	75	7553m	7.507	ug/l	
82) 4-Chlorotoluene	11.90	91	114798	9.989	ug/l	89
83) tert-Butylbenzene	12.14	119	150366	9.859	ug/l	97
84) 1,2,4-Trimethylbenzene	12.20	105	129255	9.448	ug/l	94
85) sec-Butylbenzene	12.31	105	186021	9.432	ug/l	96
86) p-Isopropyltoluene	12.46	119	166803	10.077	ug/l	98
87) 1,3-Dichlorobenzene	12.48	146	82865	9.986	ug/l	98
88) 1,4-Dichlorobenzene	12.57	146	75218	9.426	ug/l	98
89) n-Butylbenzene	12.85	91	159279	10.190	ug/l	99
90) Hexachloroethane	12.92	117	36454	9.469	ug/l	96
91) 1,2-Dichlorobenzene	12.94	146	73824	9.354	ug/l	91
92) 1,2-Dibromo-3-Chloropropan	13.64	75	4023	8.221	ug/l	86

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	52480	9.277	ug/l	98
94) Hexachlorobutadiene	14.20	225	33176	9.496	ug/l	96
95) Naphthalene	14.46	128	82593	8.344	ug/l	99
96) 1,2,3-Trichlorobenzene	14.61	180	44130	8.499	ug/l	98

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

