

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030819\
 Data File : VF061864.D
 Acq On : 8 Mar 2019 15:55
 Operator : VA/AP
 Sample : VF0308SBSD01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0308SBSD01

Manual Integrations
 APPROVED

MMDadoda
 3/11/2019 10:12:11 AM

Quant Time: Mar 09 02:13:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.84	168	326018	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.57	114	460430	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.75	117	401570	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.53	152	224075	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.81	65	109934	46.30	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	92.60%	
35) Dibromofluoromethane	4.08	113	152309	47.40	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	94.80%	
50) Toluene-d8	7.53	98	448022	46.91	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	93.82%	
62) 4-Bromofluorobenzene	11.39	95	173372	46.34	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	92.68%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	86123	21.517	ug/l	90
3) Chloromethane	1.09	50	82525	21.275	ug/l	97
4) Vinyl Chloride	1.13	62	81231	22.060	ug/l	98
5) Bromomethane	1.32	94	50890	20.279	ug/l	91
6) Chloroethane	1.38	64	38079	21.755	ug/l	99
7) Trichlorofluoromethane	1.48	101	101584m	22.587	ug/l	
8) Diethyl Ether	1.62	74	20897	20.433	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	1.83	101	65806	21.547	ug/l	92
10) Methyl Iodide	1.89	142	124600m	21.439	ug/l	
11) Tert butyl alcohol	2.55	59	13344	99.022	ug/l #	83
12) 1,1-Dichloroethene	1.78	96	59949	21.501	ug/l	96
13) Acrolein	1.99	56	14686	86.007	ug/l	99
14) Allyl chloride	2.08	41	79357	25.835	ug/l	93
15) Acrylonitrile	2.92	53	42972	100.143	ug/l	95
16) Acetone	2.22	43	56696	114.001	ug/l	96
17) Carbon Disulfide	1.81	76	188764m	21.749	ug/l	
18) Methyl Acetate	2.33	43	21839	21.231	ug/l #	84
19) Methyl tert-butyl Ether	2.42	73	97507	20.673	ug/l	98
20) Methylene Chloride	2.17	84	65814m	20.743	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	61896	23.587	ug/l	91
22) Diisopropyl ether	2.78	45	185057	23.160	ug/l #	98
23) Vinyl Acetate	3.17	43	373248	104.564	ug/l	99
24) 1,1-Dichloroethane	2.85	63	107194	22.445	ug/l	97
25) 2-Butanone	4.31	43	111354	110.076	ug/l	99
26) 2,2-Dichloropropane	3.57	77	47816	22.428	ug/l	96
27) cis-1,2-Dichloroethene	3.45	96	79361	21.829	ug/l	92
28) Bromochloromethane	3.69	49	42151	20.247	ug/l	95
29) Tetrahydrofuran	4.04	42	45422	104.113	ug/l	95
30) Chloroform	3.84	83	116312	21.322	ug/l	92
31) Cyclohexane	3.66	56	103396m	20.670	ug/l	
32) 1,1,1-Trichloroethane	4.06	97	78991	23.492	ug/l	95
36) 1,1-Dichloropropene	4.25	75	95565	21.973	ug/l	93
37) Ethyl Acetate	4.09	43	41492	22.729	ug/l #	82
38) Carbon Tetrachloride	3.96	117	70317	22.839	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030819\
 Data File : VF061864.D
 Acq On : 8 Mar 2019 15:55
 Operator : VA/AP
 Sample : VF0308SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VF0308SBS01

Manual Integrations
 APPROVED

MMDadoda
 3/11/2019 10:12:11 AM

Quant Time: Mar 09 02:13:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.42	83	110641	21.537	ug/l	97
40) Benzene	4.60	78	230851	20.306	ug/l	99
41) Methacrylonitrile	4.72	41	19889	19.885	ug/l	91
42) 1,2-Dichloroethane	4.92	62	60640	21.404	ug/l	96
43) Isopropyl Acetate	6.94	43	47127	20.943	ug/l #	100
44) Trichloroethene	5.48	130	76086	21.536	ug/l	91
45) 1,2-Dichloropropane	6.21	63	55085	20.377	ug/l	99
46) Dibromomethane	6.06	93	32896	19.335	ug/l #	83
47) Bromodichloromethane	6.36	83	78680	20.932	ug/l	99
48) Methyl methacrylate	6.70	41	27846	19.553	ug/l	90
49) 1,4-Dioxane	6.68	88	5152	395.736	ug/l #	77
51) 4-Methyl-2-Pentanone	8.23	43	172570	110.960	ug/l	99
52) Toluene	7.60	92	146135	21.729	ug/l	93
53) t-1,3-Dichloropropene	8.25	75	69126	22.280	ug/l	95
54) cis-1,3-Dichloropropene	7.28	75	88716	20.730	ug/l	95
55) 1,1,2-Trichloroethane	8.47	97	39984	20.634	ug/l	96
56) Ethyl methacrylate	8.60	69	45252	20.721	ug/l	98
57) 1,3-Dichloropropane	8.83	76	66655	21.034	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.27	63	42646	123.447	ug/l	94
59) 2-Hexanone	9.47	43	125895	112.208	ug/l	100
60) Dibromochloromethane	8.70	129	55360	20.045	ug/l	96
61) 1,2-Dibromoethane	8.96	107	42863	20.115	ug/l	98
64) Tetrachloroethene	8.13	164	65769	21.315	ug/l	94
65) Chlorobenzene	9.77	112	153627	19.913	ug/l	95
66) 1,1,1,2-Tetrachloroethane	9.91	131	68213	22.820	ug/l	98
67) Ethyl Benzene	9.88	91	278672	21.793	ug/l	98
68) m/p-Xylenes	10.11	106	211441	43.163	ug/l	98
69) o-Xylene	10.69	106	108469	20.563	ug/l	93
70) Styrene	10.77	104	153662	20.699	ug/l	99
71) Bromoform	10.76	173	31839	20.154	ug/l	97
73) Isopropylbenzene	11.10	105	325420	21.095	ug/l	99
74) N-amyl acetate	11.36	43	77045	21.694	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.68	83	48421	18.886	ug/l	94
76) 1,2,3-Trichloropropane	11.78	75	34954	19.975	ug/l	99
77) Bromobenzene	11.48	156	73652	19.838	ug/l	89
78) n-propylbenzene	11.58	91	365064	20.956	ug/l	98
79) 2-Chlorotoluene	11.70	91	207384	20.822	ug/l	99
80) 1,3,5-Trimethylbenzene	11.80	105	268402	21.671	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.85	75	17991m	22.484	ug/l	
82) 4-Chlorotoluene	11.88	91	213830	20.990	ug/l	99
83) tert-Butylbenzene	12.12	119	289716	22.029	ug/l	95
84) 1,2,4-Trimethylbenzene	12.19	105	262837	21.648	ug/l	92
85) sec-Butylbenzene	12.29	105	366781	21.431	ug/l	99
86) p-Isopropyltoluene	12.44	119	324015	22.273	ug/l	99
87) 1,3-Dichlorobenzene	12.45	146	154825	21.962	ug/l	94
88) 1,4-Dichlorobenzene	12.55	146	142916	21.016	ug/l	98
89) n-Butylbenzene	12.83	91	302846	21.783	ug/l	94
90) Hexachloroethane	12.90	117	74521	21.282	ug/l	98
91) 1,2-Dichlorobenzene	12.93	146	141110	21.127	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.63	75	7409	19.155	ug/l	90

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030819\
Data File : VF061864.D
Acq On : 8 Mar 2019 15:55
Operator : VA/AP
Sample : VF0308SBSD01
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF0308SBSD01

Manual Integrations
APPROVED

MMDadoda
3/11/2019 10:12:11 AM

Quant Time: Mar 09 02:13:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
Quant Title : SW846 8260
QLast Update : Tue Mar 05 04:50:44 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	101872	21.756	ug/l	99
94) Hexachlorobutadiene	14.18	225	65741	20.281	ug/l	96
95) Naphthalene	14.45	128	159759	19.156	ug/l	99
96) 1,2,3-Trichlorobenzene	14.58	180	90844	21.012	ug/l	92

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF030819\
 Data File : VF061864.D
 Acq On : 8 Mar 2019 15:55
 Operator : VA/AP
 Sample : VF0308SBSD01
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 Client Sample Id :
 VF0308SBSD01

Manual Integrations
 APPROVED

MMDadoda
 3/11/2019 10:12:11 AM

Quant Time: Mar 09 02:13:23 2019
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

