

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF010919\
 Data File : VF061295.D
 Acq On : 9 Jan 2019 12:21
 Operator : VA/AP
 Sample : VF0109SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0109SBS01

Manual Integrations
 APPROVED

MMDadoda
 1/10/2019 2:02:36 PM

Quant Time: Jan 10 06:34:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F010819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 09 07:13:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	201205	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.62	114	338433	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.80	117	330251	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.57	152	165004	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.86	65	111251	49.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.36%	
35) Dibromofluoromethane	4.13	113	142647	55.09	ug/l	0.02
Spiked Amount	50.000		Recovery	=	110.18%	
50) Toluene-d8	7.58	98	400242	52.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.46%	
62) 4-Bromofluorobenzene	11.42	95	174285	52.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.16%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.97	85	73706	19.859	ug/l	95
3) Chloromethane	1.10	50	67071	20.280	ug/l	96
4) Vinyl Chloride	1.14	62	62972	21.318	ug/l	97
5) Bromomethane	1.30	94	42599	19.039	ug/l	84
6) Chloroethane	1.37	64	28167	19.527	ug/l	90
7) Trichlorofluoromethane	1.46	101	99250	19.820	ug/l	98
8) Diethyl Ether	1.64	74	15178	20.641	ug/l	88
9) 1,1,2-Trichlorotrifluoroet	1.83	101	56829	21.493	ug/l	97
10) Methyl Iodide	1.85	142	89360	21.572	ug/l	96
11) Tert butyl alcohol	2.57	59	9486	105.792	ug/l	99
12) 1,1-Dichloroethene	1.77	96	45580	21.557	ug/l	88
13) Acrolein	2.01	56	11561	106.393	ug/l	97
14) Allyl chloride	2.11	41	83869	21.701	ug/l	95
15) Acrylonitrile	2.96	53	35627	112.082	ug/l	89
16) Acetone	2.25	43	64449	123.710	ug/l #	89
17) Carbon Disulfide	1.78	76	153496	21.979	ug/l	97
18) Methyl Acetate	2.36	43	19635m	19.156	ug/l	
19) Methyl tert-butyl Ether	2.44	73	86889	21.565	ug/l	97
20) Methylene Chloride	2.19	84	49774	22.583	ug/l	94
21) trans-1,2-Dichloroethene	2.32	96	47165	21.051	ug/l	97
22) Diisopropyl ether	2.81	45	161155	21.554	ug/l	99
23) Vinyl Acetate	3.21	43	247351	113.122	ug/l	99
24) 1,1-Dichloroethane	2.89	63	94216	21.784	ug/l	99
25) 2-Butanone	4.35	43	91167	108.727	ug/l	98
26) 2,2-Dichloropropane	3.62	77	63586	22.001	ug/l	91
27) cis-1,2-Dichloroethene	3.49	96	65684	20.998	ug/l	95
28) Bromochloromethane	3.74	49	41244	21.628	ug/l	99
29) Tetrahydrofuran	4.09	42	42923	122.433	ug/l	94
30) Chloroform	3.89	83	114284	20.815	ug/l	98
31) Cyclohexane	3.72	56	102045	22.490	ug/l	99
32) 1,1,1-Trichloroethane	4.11	97	97825	22.059	ug/l	91
36) 1,1-Dichloropropene	4.30	75	82784	20.947	ug/l	97
37) Ethyl Acetate	4.13	43	34856	24.219	ug/l #	77
38) Carbon Tetrachloride	4.01	117	83951	22.429	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.48	83	112980	22.847	ug/l	98
40) Benzene	4.66	78	203774	22.085	ug/l	99
41) Methacrylonitrile	4.76	41	17513	21.790	ug/l	96
42) 1,2-Dichloroethane	4.96	62	59539	20.727	ug/l	96
43) Isopropyl Acetate	6.97	43	43193	22.732	ug/l #	94
44) Trichloroethene	5.52	130	55596	20.589	ug/l	86
45) 1,2-Dichloropropane	6.25	63	50055	21.333	ug/l	99
46) Dibromomethane	6.11	93	29925	20.772	ug/l	93
47) Bromodichloromethane	6.40	83	77556	21.646	ug/l #	97
48) Methyl methacrylate	6.74	41	27788	22.531	ug/l	94
49) 1,4-Dioxane	6.73	88	3276	420.964	ug/l	95
51) 4-Methyl-2-Pentanone	8.28	43	156830	109.352	ug/l	95
52) Toluene	7.64	92	120107	20.252	ug/l	100
53) t-1,3-Dichloropropene	8.30	75	60536	21.515	ug/l	99
54) cis-1,3-Dichloropropene	7.32	75	83732	22.444	ug/l	99
55) 1,1,2-Trichloroethane	8.51	97	36028	21.710	ug/l	95
56) Ethyl methacrylate	8.64	69	40869	22.035	ug/l	95
57) 1,3-Dichloropropane	8.88	76	63716	21.694	ug/l	95
58) 2-Chloroethyl Vinyl ether	7.32	63	8413	106.439	ug/l #	65
59) 2-Hexanone	9.51	43	122715	120.777	ug/l	99
60) Dibromochloromethane	8.74	129	46421	21.007	ug/l	91
61) 1,2-Dibromoethane	9.01	107	35992	21.276	ug/l	99
64) Tetrachloroethene	8.18	164	48177	20.036	ug/l	92
65) Chlorobenzene	9.82	112	143432	21.508	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.95	131	55401	20.359	ug/l	92
67) Ethyl Benzene	9.92	91	271227	21.094	ug/l	95
68) m/p-Xylenes	10.15	106	193657	43.177	ug/l	99
69) o-Xylene	10.73	106	106229	21.202	ug/l	99
70) Styrene	10.80	104	144484	21.647	ug/l	96
71) Bromoform	10.79	173	23154	20.820	ug/l #	98
73) Isopropylbenzene	11.14	105	302067	20.804	ug/l	99
74) N-amyl acetate	11.38	43	72135	21.856	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.71	83	51017	22.161	ug/l	97
76) 1,2,3-Trichloropropane	11.81	75	34566	20.472	ug/l	97
77) Bromobenzene	11.51	156	60238	20.854	ug/l	96
78) n-propylbenzene	11.61	91	377864	21.827	ug/l	97
79) 2-Chlorotoluene	11.74	91	208295	21.596	ug/l	100
80) 1,3,5-Trimethylbenzene	11.84	105	251296	21.751	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.89	75	13067m	17.709	ug/l	
82) 4-Chlorotoluene	11.92	91	199152	20.320	ug/l	100
83) tert-Butylbenzene	12.14	119	242202	21.042	ug/l	99
84) 1,2,4-Trimethylbenzene	12.22	105	249427	21.745	ug/l	99
85) sec-Butylbenzene	12.32	105	344205	21.002	ug/l	98
86) p-Isopropyltoluene	12.47	119	276612	20.750	ug/l	98
87) 1,3-Dichlorobenzene	12.49	146	121055	21.460	ug/l	97
88) 1,4-Dichlorobenzene	12.58	146	114355	21.086	ug/l	97
89) n-Butylbenzene	12.85	91	305643	22.315	ug/l	93
90) Hexachloroethane	12.93	117	65324	21.422	ug/l	98
91) 1,2-Dichlorobenzene	12.95	146	116521	21.641	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.65	75	8218	21.127	ug/l	56

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	81039	21.872	ug/l	98
94) Hexachlorobutadiene	14.20	225	50900	21.339	ug/l	98
95) Naphthalene	14.47	128	139708	20.009	ug/l	99
96) 1,2,3-Trichlorobenzene	14.62	180	75354	21.590	ug/l	96

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

