

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032519\
 Data File : VF062129.D
 Acq On : 25 Mar 2019 14:02
 Operator : VA/AP
 Sample : VF0325SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0325SBS01

Manual Integrations
 APPROVED

MMDadoda
 3/26/2019 3:59:18 PM

Quant Time: Mar 26 05:08:34 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	4.87	168	266574	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.59	114	408911	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.77	117	343816	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.55	152	181325	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	101180	51.03	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	102.06%	
35) Dibromofluoromethane	4.11	113	153206	55.39	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	110.78%	
50) Toluene-d8	7.55	98	451953	54.74	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	109.48%	
62) 4-Bromofluorobenzene	11.41	95	162833	51.08	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	102.16%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	74690	21.871	ug/l	94
3) Chloromethane	1.09	50	81028	22.676	ug/l	95
4) Vinyl Chloride	1.14	62	77098	23.326	ug/l	97
5) Bromomethane	1.31	94	48866	20.567	ug/l	93
6) Chloroethane	1.39	64	37740	22.682	ug/l	96
7) Trichlorofluoromethane	1.49	101	89437m	22.405	ug/l	
8) Diethyl Ether	1.63	74	17908	19.639	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	1.84	101	59937	22.009	ug/l	99
10) Methyl Iodide	1.91	142	112374m	21.714	ug/l	
11) Tert butyl alcohol	2.57	59	10320	94.594	ug/l #	80
12) 1,1-Dichloroethene	1.79	96	55188m	21.477	ug/l	
13) Acrolein	2.00	56	13627	103.872	ug/l #	70
14) Allyl chloride	2.10	41	68961	25.137	ug/l	98
15) Acrylonitrile	2.93	53	39273	102.370	ug/l	91
16) Acetone	2.23	43	45775	109.690	ug/l	92
17) Carbon Disulfide	1.80	76	174256m	22.239	ug/l	
18) Methyl Acetate	2.34	43	18069	18.152	ug/l	100
19) Methyl tert-butyl Ether	2.42	73	84363	20.773	ug/l	95
20) Methylene Chloride	2.18	84	57756m	21.166	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	57507	23.260	ug/l	95
22) Diisopropyl ether	2.80	45	158840	22.083	ug/l	95
23) Vinyl Acetate	3.18	43	313925	106.598	ug/l	98
24) 1,1-Dichloroethane	2.87	63	92091	21.350	ug/l	99
25) 2-Butanone	4.33	43	85271	97.879	ug/l	93
26) 2,2-Dichloropropane	3.60	77	42669	24.398	ug/l	97
27) cis-1,2-Dichloroethene	3.48	96	67949	20.740	ug/l	96
28) Bromochloromethane	3.71	49	41008	23.269	ug/l	88
29) Tetrahydrofuran	4.07	42	35520	93.774	ug/l	96
30) Chloroform	3.85	83	102141	22.407	ug/l	98
31) Cyclohexane	3.68	56	97928m	21.738	ug/l	
32) 1,1,1-Trichloroethane	4.09	97	65403	23.586	ug/l	99
36) 1,1-Dichloropropene	4.28	75	83085	21.332	ug/l	97
37) Ethyl Acetate	4.10	43	31565	18.544	ug/l #	59
38) Carbon Tetrachloride	3.98	117	60901	22.941	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	100752	22.288	ug/l	96
40) Benzene	4.63	78	216971	20.780	ug/l	100
41) Methacrylonitrile	4.74	41	18051	20.043	ug/l	93
42) 1,2-Dichloroethane	4.94	62	50994	20.653	ug/l	95
43) Isopropyl Acetate	6.96	43	36593	17.751	ug/l #	99
44) Trichloroethene	5.50	130	70080	21.953	ug/l	96
45) 1,2-Dichloropropane	6.23	63	50303	20.199	ug/l	91
46) Dibromomethane	6.08	93	30350	19.932	ug/l	92
47) Bromodichloromethane	6.38	83	70922	21.028	ug/l	96
48) Methyl methacrylate	6.71	41	22869	19.484	ug/l	91
49) 1,4-Dioxane	6.70	88	4324	419.849	ug/l #	83
51) 4-Methyl-2-Pentanone	8.25	43	139612	101.188	ug/l	96
52) Toluene	7.62	92	126054	20.843	ug/l	95
53) t-1,3-Dichloropropene	8.27	75	54822	20.706	ug/l	95
54) cis-1,3-Dichloropropene	7.29	75	79548	20.998	ug/l	97
55) 1,1,2-Trichloroethane	8.49	97	32667	19.016	ug/l	99
56) Ethyl methacrylate	8.61	69	41229	20.124	ug/l	98
57) 1,3-Dichloropropane	8.84	76	56032	19.653	ug/l	92
58) 2-Chloroethyl Vinyl ether	7.29	63	31050	99.879	ug/l	90
59) 2-Hexanone	9.48	43	98278	97.188	ug/l	99
60) Dibromochloromethane	8.71	129	49348	20.664	ug/l	93
61) 1,2-Dibromoethane	8.98	107	36307	19.810	ug/l	93
64) Tetrachloroethene	8.15	164	57050	21.478	ug/l	94
65) Chlorobenzene	9.79	112	131517	20.444	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.93	131	56973	22.048	ug/l	97
67) Ethyl Benzene	9.90	91	252579	22.577	ug/l	100
68) m/p-Xylenes	10.12	106	179958	43.037	ug/l	97
69) o-Xylene	10.71	106	97896	22.353	ug/l	98
70) Styrene	10.78	104	144916	21.839	ug/l	97
71) Bromoform	10.76	173	24919	18.854	ug/l #	94
73) Isopropylbenzene	11.12	105	285030	22.339	ug/l	99
74) N-amyl acetate	11.37	43	62497	20.557	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.69	83	45097	20.585	ug/l	97
76) 1,2,3-Trichloropropane	11.79	75	29207	18.944	ug/l	100
77) Bromobenzene	11.49	156	62011	19.893	ug/l	97
78) n-propylbenzene	11.59	91	317204	21.410	ug/l	97
79) 2-Chlorotoluene	11.71	91	176124	21.387	ug/l	98
80) 1,3,5-Trimethylbenzene	11.82	105	227104	21.639	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.86	75	11457m	18.237	ug/l	
82) 4-Chlorotoluene	11.90	91	179636	21.275	ug/l	98
83) tert-Butylbenzene	12.12	119	242657	22.087	ug/l	98
84) 1,2,4-Trimethylbenzene	12.20	105	226128	21.979	ug/l	97
85) sec-Butylbenzene	12.30	105	316845	22.293	ug/l	100
86) p-Isopropyltoluene	12.45	119	276477	22.453	ug/l	96
87) 1,3-Dichlorobenzene	12.47	146	125949	21.747	ug/l	97
88) 1,4-Dichlorobenzene	12.56	146	118647	20.995	ug/l	97
89) n-Butylbenzene	12.83	91	271723	23.130	ug/l	95
90) Hexachloroethane	12.91	117	62946	21.469	ug/l	83
91) 1,2-Dichlorobenzene	12.93	146	114575	21.069	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.63	75	6416	19.329	ug/l	76

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	82494	21.765	ug/l	97
94) Hexachlorobutadiene	14.19	225	55442	22.000	ug/l	97
95) Naphthalene	14.45	128	131839	19.850	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	72538	20.446	ug/l	98

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

