

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030519\
 Data File : VF061858.D
 Acq On : 5 Mar 2019 21:24
 Operator : VA/AP
 Sample : K1560-03
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

Manual Integrations
 APPROVED

MMDadoda
 3/8/2019 10:59:27 AM

Quant Time: Mar 06 06:34:35 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	4.87	168	309832	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.60	114	481643	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.78	117	392934	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	231606	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	121612	53.90	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	107.80%	
35) Dibromofluoromethane	4.11	113	170288	50.66	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	101.32%	
50) Toluene-d8	7.55	98	473997	47.44	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	94.88%	
62) 4-Bromofluorobenzene	11.41	95	194936	49.81	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	99.62%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	9596	2.523	ug/l	93
3) Chloromethane	1.10	50	9891	2.683	ug/l #	83
4) Vinyl Chloride	1.13	62	8261	2.361	ug/l #	78
5) Bromomethane	1.34	94	7149	2.998	ug/l #	77
6) Chloroethane	1.39	64	4159	2.500	ug/l #	48
7) Trichlorofluoromethane	1.48	101	11279	2.639	ug/l	91
8) Diethyl Ether	1.63	74	2856	2.938	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	1.82	101	8659	2.983	ug/l #	82
10) Methyl Iodide	1.91	142	14470m	2.620	ug/l	
11) Tert butyl alcohol	2.57	59	1534	11.978	ug/l #	78
12) 1,1-Dichloroethene	1.79	96	7846	2.961	ug/l #	80
13) Acrolein	2.01	56	2385	14.697	ug/l #	73
14) Allyl chloride	2.10	41	7511	2.573	ug/l #	79
15) Acrylonitrile	2.95	53	6355	15.584	ug/l	86
16) Acetone	2.25	43	6500	13.753	ug/l	100
17) Carbon Disulfide	1.83	76	21521m	2.609	ug/l	
18) Methyl Acetate	2.37	43	8274m	1.197	ug/l	
19) Methyl tert-butyl Ether	2.43	73	11263	2.513	ug/l #	91
20) Methylene Chloride	2.18	84	12796m	Below Cal		
21) trans-1,2-Dichloroethene	2.31	96	7251	2.907	ug/l #	90
22) Diisopropyl ether	2.80	45	21754	2.865	ug/l #	90
23) Vinyl Acetate	3.19	43	42157	12.427	ug/l	98
24) 1,1-Dichloroethane	2.88	63	12689	2.796	ug/l #	94
25) 2-Butanone	4.34	43	13919	14.478	ug/l #	86
26) 2,2-Dichloropropane	3.60	77	4562	2.252	ug/l #	71
27) cis-1,2-Dichloroethene	3.48	96	8734	2.528	ug/l	82
28) Bromochloromethane	3.71	49	4615	2.333	ug/l #	73
29) Tetrahydrofuran	4.09	42	6299	15.192	ug/l #	83
30) Chloroform	3.85	83	14109	2.721	ug/l	85
31) Cyclohexane	3.68	56	11432m	2.405	ug/l	
32) 1,1,1-Trichloroethane	4.09	97	8516	2.665	ug/l #	85
36) 1,1-Dichloropropene	4.28	75	13513	2.970	ug/l	94
37) Ethyl Acetate	4.11	43	6500	3.404	ug/l #	92
38) Carbon Tetrachloride	3.98	117	8978	2.788	ug/l #	80

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	12765	2.375	ug/l	95
40) Benzene	4.63	78	29379	2.470	ug/l	95
41) Methacrylonitrile	4.75	41	2452	2.344	ug/l #	83
42) 1,2-Dichloroethane	4.94	62	8436	2.846	ug/l	100
43) Isopropyl Acetate	6.97	43	5832	2.478	ug/l	100
44) Trichloroethene	5.51	130	9488	2.567	ug/l	67
45) 1,2-Dichloropropane	6.23	63	6393	2.261	ug/l #	67
46) Dibromomethane	6.08	93	4182	2.350	ug/l #	85
47) Bromodichloromethane	6.38	83	10154	2.582	ug/l #	96
48) Methyl methacrylate	6.72	41	4012	2.693	ug/l	96
49) 1,4-Dioxane	6.71	88	609	44.718	ug/l #	88
51) 4-Methyl-2-Pentanone	8.26	43	21996	13.520	ug/l	100
52) Toluene	7.62	92	16489	2.344	ug/l	97
53) t-1,3-Dichloropropene	8.28	75	9183	2.829	ug/l #	82
54) cis-1,3-Dichloropropene	7.30	75	10823	2.418	ug/l #	88
55) 1,1,2-Trichloroethane	8.49	97	4785	2.361	ug/l #	80
56) Ethyl methacrylate	8.63	69	5638	2.468	ug/l	91
57) 1,3-Dichloropropane	8.85	76	7712	2.326	ug/l	94
58) 2-Chloroethyl Vinyl ether	7.29	63	4366	12.082	ug/l #	73
59) 2-Hexanone	9.49	43	14971	12.756	ug/l	88
60) Dibromochloromethane	8.71	129	6799	2.353	ug/l	100
61) 1,2-Dibromoethane	8.98	107	5099	2.288	ug/l	97
64) Tetrachloroethene	8.15	164	9185	3.042	ug/l	95
65) Chlorobenzene	9.80	112	19965	2.645	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.93	131	7852	2.685	ug/l	82
67) Ethyl Benzene	9.90	91	33982	2.716	ug/l	93
68) m/p-Xylenes	10.13	106	24663	5.145	ug/l	92
69) o-Xylene	10.71	106	12805	2.481	ug/l	96
70) Styrene	10.78	104	20008	2.754	ug/l	95
71) Bromoform	10.76	173	3973	2.570	ug/l	92
73) Isopropylbenzene	11.12	105	35973	2.256	ug/l	99
74) N-amyl acetate	11.38	43	9696	2.641	ug/l #	90
75) 1,1,2,2-Tetrachloroethane	11.69	83	7003	2.643	ug/l	94
76) 1,2,3-Trichloropropane	11.79	75	5038	2.785	ug/l	82
77) Bromobenzene	11.49	156	8594	2.240	ug/l	94
78) n-propylbenzene	11.59	91	47264	2.625	ug/l	96
79) 2-Chlorotoluene	11.72	91	27987	2.719	ug/l	91
80) 1,3,5-Trimethylbenzene	11.82	105	31919	2.493	ug/l	86
81) trans-1,4-Dichloro-2-buten	11.87	75	1678m	2.029	ug/l	
82) 4-Chlorotoluene	11.90	91	28227	2.681	ug/l	100
83) tert-Butylbenzene	12.13	119	32639	2.401	ug/l	84
84) 1,2,4-Trimethylbenzene	12.20	105	30860	2.459	ug/l	93
85) sec-Butylbenzene	12.30	105	44608	2.522	ug/l	100
86) p-Isopropyltoluene	12.46	119	37886	2.520	ug/l	94
87) 1,3-Dichlorobenzene	12.47	146	21450	2.944	ug/l	94
88) 1,4-Dichlorobenzene	12.56	146	18987	2.701	ug/l	97
89) n-Butylbenzene	12.85	91	35488	2.470	ug/l	97
90) Hexachloroethane	12.91	117	8026	2.218	ug/l	77
91) 1,2-Dichlorobenzene	12.94	146	18900	2.738	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.63	75	1140	6.058	ug/l #	43

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	13493	2.788	ug/l	92
94) Hexachlorobutadiene	14.19	225	7992	2.385	ug/l	92
95) Naphthalene	14.45	128	18871	2.189	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	11368	2.544	ug/l	86

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

