

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF081418\
 Data File : VF059959.D
 Acq On : 14 Aug 2018 22:23
 Operator : VA/AP
 Sample : VSTDICV050
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 ICSVF081418

Manual Integrations
 APPROVED

apatel
 8/16/2018 12:17:03 PM

Quant Time: Aug 15 09:21:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F081418S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 15 09:20:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	142821	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.79	114	206706	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.94	117	202118	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.64	152	121864	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.04	65	114664	45.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.84%	
35) Dibromofluoromethane	4.31	113	94885	45.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.62%	
50) Toluene-d8	7.72	98	232178	50.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.66%	
62) 4-Bromofluorobenzene	11.52	95	121822	48.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.12%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.99	85	93181	44.03	ug/l	96
3) Chloromethane	1.09	50	45861	50.85	ug/l	95
4) Vinyl Chloride	1.16	62	50024	48.29	ug/l	93
5) Bromomethane	1.35	94	43753	46.93	ug/l	97
6) Chloroethane	1.44	64	31578	46.96	ug/l	99
7) Trichlorofluoromethane	1.54	101	139421	46.08	ug/l	95
8) Diethyl Ether	1.71	74	20861	50.13	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	1.91	101	70244	45.99	ug/l	100
10) Methyl Iodide	1.97	142	115838	48.59	ug/l	86
11) Tert butyl alcohol	2.70	59	24167	243.61	ug/l #	82
12) 1,1-Dichloroethene	1.86	96	55113	48.69	ug/l	98
13) Acrolein	2.10	56	17371	290.81	ug/l	91
14) Allyl chloride	2.20	41	87920	54.59	ug/l	89
15) Acrylonitrile	3.09	53	38538	256.26	ug/l	96
16) Acetone	2.35	43	99351	200.45	ug/l #	85
17) Carbon Disulfide	1.89	76	139589	48.14	ug/l #	92
18) Methyl Acetate	2.46	43	32923	47.77	ug/l	94
19) Methyl tert-butyl Ether	2.55	73	152581	46.94	ug/l	99
20) Methylene Chloride	2.29	84	52706m	50.31	ug/l	
21) trans-1,2-Dichloroethene	2.42	96	52493	47.71	ug/l	97
22) Diisopropyl ether	2.94	45	185945	50.20	ug/l	94
23) Vinyl Acetate	3.35	43	475308	258.52	ug/l	100
24) 1,1-Dichloroethane	3.02	63	124743	47.66	ug/l	99
25) 2-Butanone	4.53	43	121933	243.27	ug/l	95
26) 2,2-Dichloropropane	3.78	77	76809	45.11	ug/l	88
27) cis-1,2-Dichloroethene	3.65	96	62088	51.07	ug/l	99
28) Bromochloromethane	3.91	49	46516	47.71	ug/l #	81
29) Tetrahydrofuran	4.27	42	40813	237.05	ug/l	97
30) Chloroform	4.06	83	165837	46.14	ug/l	94
31) Cyclohexane	3.89	56	67284	51.40	ug/l #	85
32) 1,1,1-Trichloroethane	4.29	97	132406	44.80	ug/l	94
36) 1,1-Dichloropropene	4.48	75	106814	46.52	ug/l	93
37) Ethyl Acetate	4.30	43	44469	45.26	ug/l #	77
38) Carbon Tetrachloride	4.20	117	161281	42.18	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.64	83	80333	48.13	ug/l	91
40) Benzene	4.83	78	189358	48.71	ug/l	94
41) Methacrylonitrile	4.94	41	22892	47.24	ug/l	92
42) 1,2-Dichloroethane	5.13	62	132880	43.03	ug/l	95
43) Isopropyl Acetate	7.12	43	53652	50.09	ug/l #	96
44) Trichloroethene	5.69	130	69651	46.56	ug/l	89
45) 1,2-Dichloropropane	6.42	63	51627	50.22	ug/l #	84
46) Dibromomethane	6.28	93	44951	44.32	ug/l	91
47) Bromodichloromethane	6.56	83	127681	43.62	ug/l	96
48) Methyl methacrylate	6.89	41	40130	50.30	ug/l	91
49) 1,4-Dioxane	6.89	88	5107	846.50	ug/l #	89
51) 4-Methyl-2-Pentanone	8.42	43	242223	233.43	ug/l	96
52) Toluene	7.79	92	135630	47.11	ug/l	99
53) t-1,3-Dichloropropene	8.44	75	106772	44.60	ug/l	96
54) cis-1,3-Dichloropropene	7.48	75	113608	49.31	ug/l	91
55) 1,1,2-Trichloroethane	8.65	97	47861	48.64	ug/l	96
56) Ethyl methacrylate	8.78	69	54992	52.03	ug/l	90
57) 1,3-Dichloropropane	9.02	76	80897	44.64	ug/l	95
58) 2-Chloroethyl Vinyl ether	7.79	63	30796	216.60	ug/l	100
59) 2-Hexanone	9.65	43	189564	250.45	ug/l	89
60) Dibromochloromethane	8.89	129	89939	46.19	ug/l	89
61) 1,2-Dibromoethane	9.15	107	56113	45.72	ug/l	94
64) Tetrachloroethene	8.33	164	74141	47.11	ug/l	94
65) Chlorobenzene	9.96	112	185297	47.46	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.09	131	85323	45.22	ug/l	97
67) Ethyl Benzene	10.06	91	328272	47.60	ug/l	97
68) m/p-Xylenes	10.29	106	226546	97.69	ug/l	98
69) o-Xylene	10.85	106	118273	46.96	ug/l	94
70) Styrene	10.92	104	181383	48.68	ug/l	96
71) Bromoform	10.91	173	53761	45.83	ug/l	95
73) Isopropylbenzene	11.24	105	391819	51.12	ug/l	98
74) N-amyl acetate	11.48	43	91951	54.43	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.80	83	63755	49.48	ug/l	97
76) 1,2,3-Trichloropropane	11.89	75	55166	49.66	ug/l	96
77) Bromobenzene	11.61	156	99893	49.67	ug/l	93
78) n-propylbenzene	11.70	91	437407	48.64	ug/l	99
79) 2-Chlorotoluene	11.83	91	271632	48.20	ug/l	97
80) 1,3,5-Trimethylbenzene	11.92	105	334949	46.93	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.97	75	20316m	44.75	ug/l	
82) 4-Chlorotoluene	12.00	91	288001	46.32	ug/l	99
83) tert-Butylbenzene	12.23	119	345935	49.20	ug/l	99
84) 1,2,4-Trimethylbenzene	12.30	105	353057	49.07	ug/l	99
85) sec-Butylbenzene	12.40	105	439181	49.03	ug/l	100
86) p-Isopropyltoluene	12.55	119	390946	49.54	ug/l	94
87) 1,3-Dichlorobenzene	12.57	146	182474	47.84	ug/l	96
88) 1,4-Dichlorobenzene	12.66	146	186013	49.52	ug/l	97
89) n-Butylbenzene	12.93	91	375180	49.36	ug/l	98
90) Hexachloroethane	13.01	117	93465	47.84	ug/l	96
91) 1,2-Dichlorobenzene	13.03	146	179137	48.41	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.73	75	15876	45.48	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.28	180	147140	49.62	ug/l	97
94) Hexachlorobutadiene	14.27	225	98123	46.27	ug/l	96
95) Naphthalene	14.54	128	244761	50.55	ug/l	99
96) 1,2,3-Trichlorobenzene	14.67	180	140126	49.51	ug/l	99

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

