

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122618\
 Data File : VF061189.D
 Acq On : 26 Dec 2018 15:38
 Operator : VA/AP
 Sample : J6447-09MS
 Misc : 5.35u/5mL/MSVOA-F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SS025-1218-01MS

Manual Integrations
 APPROVED

apatel
 12/27/2018 4:18:59 PM

Quant Time: Dec 27 07:27:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	17771	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.58	114	26988	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.76	117	16318	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.54	152	4040	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.83	65	6351	27.79	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	55.58%	
35) Dibromofluoromethane	4.09	113	10002	46.26	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	92.52%	
50) Toluene-d8	7.54	98	30439	49.68	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	99.36%	
62) 4-Bromofluorobenzene	11.39	95	7728	27.36	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	54.72%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	29537	74.770	ug/l	97
3) Chloromethane	1.10	50	15266	67.464	ug/l	95
4) Vinyl Chloride	1.14	62	16656	79.347	ug/l	96
5) Bromomethane	1.31	94	10762	73.916	ug/l	88
6) Chloroethane	1.36	64	7434	76.858	ug/l	94
7) Trichlorofluoromethane	1.47	101	35084	87.534	ug/l	91
8) Diethyl Ether	1.62	74	1718	31.302	ug/l	70
9) 1,1,2-Trichlorotrifluoroet	1.81	101	15443	74.312	ug/l	94
10) Methyl Iodide	1.88	142	16329	49.848	ug/l #	91
11) Tert butyl alcohol	2.57	59	715	77.519	ug/l #	65
12) 1,1-Dichloroethene	1.77	96	12721	81.206	ug/l #	92
13) Acrolein	2.00	56	275	41.261	ug/l #	74
14) Allyl chloride	2.08	41	18143	111.292	ug/l	89
15) Acrylonitrile	2.94	53	2664	124.903	ug/l #	91
16) Acetone	2.23	43	3884	85.002	ug/l	94
17) Carbon Disulfide	1.80	76	36110	76.277	ug/l	96
18) Methyl Acetate	2.33	43	5402m	57.143	ug/l	
19) Methyl tert-butyl Ether	2.43	73	7643	21.981	ug/l	96
20) Methylene Chloride	2.21	84	6543	44.299	ug/l #	76
21) trans-1,2-Dichloroethene	2.30	96	9796	58.467	ug/l	89
22) Diisopropyl ether	2.78	45	18916	34.835	ug/l #	85
23) Vinyl Acetate	3.17	43	781m	3.118	ug/l	
24) 1,1-Dichloroethane	2.86	63	17540	54.516	ug/l #	95
25) 2-Butanone	4.34	43	9117	123.028	ug/l #	57
26) 2,2-Dichloropropane	3.58	77	17423	94.362	ug/l	100
27) cis-1,2-Dichloroethene	3.46	96	11112	43.321	ug/l	90
28) Bromochloromethane	3.70	49	5761	35.289	ug/l #	82
29) Tetrahydrofuran	4.06	42	3508	116.307	ug/l	89
30) Chloroform	3.85	83	20674	42.854	ug/l	92
31) Cyclohexane	3.68	56	23856	71.455	ug/l #	81
32) 1,1,1-Trichloroethane	4.08	97	26337	91.082	ug/l	99
36) 1,1-Dichloropropene	4.26	75	22025	67.611	ug/l	98
37) Ethyl Acetate	4.11	43	2363	16.616	ug/l #	1
38) Carbon Tetrachloride	3.97	117	24539m	98.915	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	19730	67.510	ug/l	91
40) Benzene	4.62	78	38493	54.946	ug/l	94
41) Methacrylonitrile	4.72	41	1508	21.919	ug/l #	64
42) 1,2-Dichloroethane	4.92	62	8091	30.403	ug/l	96
43) Isopropyl Acetate	6.99	43	1068	6.790	ug/l #	45
44) Trichloroethene	5.49	130	13152	59.547	ug/l	97
45) 1,2-Dichloropropane	6.22	63	6716	35.236	ug/l	94
46) Dibromomethane	6.07	93	3164	25.595	ug/l #	70
47) Bromodichloromethane	6.36	83	11158	34.739	ug/l #	83
48) Methyl methacrylate	6.70	41	2443	22.248	ug/l #	83
49) 1,4-Dioxane	6.70	88	242	303.726	ug/l #	56
51) 4-Methyl-2-Pentanone	8.25	43	3866	35.837	ug/l #	85
52) Toluene	7.61	92	23176	49.977	ug/l	99
53) t-1,3-Dichloropropene	8.27	75	6024	23.249	ug/l	92
54) cis-1,3-Dichloropropene	7.28	75	10286	31.629	ug/l	93
55) 1,1,2-Trichloroethane	8.47	97	3538	25.450	ug/l	88
56) Ethyl methacrylate	8.62	69	464	3.084	ug/l	99
57) 1,3-Dichloropropane	8.84	76	6070	24.141	ug/l	91
58) 2-Chloroethyl Vinyl ether	7.27	63	1079	37.347	ug/l #	90
59) 2-Hexanone	9.48	43	232	2.974	ug/l #	27
60) Dibromochloromethane	8.70	129	4762	23.896	ug/l	97
61) 1,2-Dibromoethane	8.97	107	3179	21.411	ug/l	89
64) Tetrachloroethene	8.14	164	8728	69.531	ug/l	92
65) Chlorobenzene	9.78	112	18459	54.757	ug/l	91
66) 1,1,1,2-Tetrachloroethane	9.92	131	6755	49.034	ug/l	97
67) Ethyl Benzene	9.89	91	41650	67.818	ug/l	97
68) m/p-Xylenes	10.11	106	27547	127.454	ug/l	90
69) o-Xylene	10.70	106	11448	47.758	ug/l	87
70) Styrene	10.77	104	14345	49.015	ug/l	92
71) Bromoform	10.76	173	1766	27.708	ug/l	92
73) Isopropylbenzene	11.11	105	43924	126.165	ug/l	99
74) N-amyl acetate	11.38	43	228	2.950	ug/l #	46
75) 1,1,2,2-Tetrachloroethane	11.69	83	3228	55.866	ug/l #	87
76) 1,2,3-Trichloropropane	11.79	75	2707	62.953	ug/l	82
77) Bromobenzene	11.48	156	4764	63.567	ug/l	82
78) n-propylbenzene	11.58	91	48028	Below Cal		95
79) 2-Chlorotoluene	11.71	91	22143	92.715	ug/l	95
80) 1,3,5-Trimethylbenzene	11.81	105	27963	97.543	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.86	75	995m	53.849	ug/l	
82) 4-Chlorotoluene	11.89	91	19896	80.530	ug/l	98
83) tert-Butylbenzene	12.11	119	33357	113.077	ug/l	96
84) 1,2,4-Trimethylbenzene	12.19	105	20761	72.623	ug/l	99
85) sec-Butylbenzene	12.29	105	41922	108.897	ug/l	98
86) p-Isopropyltoluene	12.45	119	28862	90.322	ug/l	99
87) 1,3-Dichlorobenzene	12.46	146	8216	69.246	ug/l	95
88) 1,4-Dichlorobenzene	12.56	146	8254	59.978	ug/l	90
89) n-Butylbenzene	12.83	91	22802	84.698	ug/l	92
90) Hexachloroethane	12.90	117	6541	82.852	ug/l	95
91) 1,2-Dichlorobenzene	12.93	146	5934	44.290	ug/l	89
92) 1,2-Dibromo-3-Chloropropan	13.63	75	405	38.197	ug/l	80

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	1439	15.144	ug/l	84
94) Hexachlorobutadiene	14.18	225	2247	37.129	ug/l	89
95) Naphthalene	14.45	128	232	1.337	ug/l #	70
96) 1,2,3-Trichlorobenzene	14.59	180	862	9.813	ug/l	80

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

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