

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051321\
 Data File : VX021960.D
 Acq On : 13 May 2021 12:35
 Operator : JC/MD
 Sample : M2262-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-SOIL-01-QT2-202

Manual Integrations
 APPROVED

MMDadoda
 5/14/2021 6:48:18 PM

Quant Time: May 14 03:46:19 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 13 06:11:35 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.910	128	18664	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	109120	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	95227	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	44856	31.20	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	104.00%
60) 4-Bromofluorobenzene	11.085	95	47663	30.16	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	100.53%
63) Toluene-d8	8.653	98	132158	30.37	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.23%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	2318	2.10	ug/l	99
3) Chloromethane	1.294	50	3220	2.43	ug/l #	87
4) Vinyl Chloride	1.374	62	3316	2.41	ug/l	92
5) Bromomethane	1.611	94	2082	2.69	ug/l	89
6) Chloroethane	1.691	64	2154	2.43	ug/l #	61
7) Trichlorofluoromethane	1.886	101	4659	2.43	ug/l	87
8) Diethyl Ether	2.136	74	2253	2.74	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.331	101	2656	2.41	ug/l	100
10) 1,1-Dichloroethene	2.319	96	2777	2.50	ug/l	90
11) Methyl Iodide	2.459	142	2921	2.65	ug/l #	92
12) Methyl Acetate	2.709	43	3750	2.44	ug/l #	88
13) Acrolein	2.239	56	3074	12.92	ug/l	92
14) Acrylonitrile	3.068	53	7750	12.38	ug/l	98
15) Acetone	2.386	58	2413	12.91	ug/l	91
16) Carbon Disulfide	2.514	76	7780	2.56	ug/l	98
17) Allyl chloride	2.666	41	4544	2.32	ug/l	87
18) Methylene Chloride	2.794	84	3478	2.64	ug/l #	83
19) trans-1,2-Dichloroethene	3.093	96	3137	2.60	ug/l	85
20) Diisopropyl ether	3.763	45	8723	2.37	ug/l #	98
21) 1,1-Dichloroethane	3.611	63	5666	2.57	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	3363	2.37	ug/l #	87
23) tert-Butyl Alcohol	2.977	59	4041m	13.28	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	8732	2.42	ug/l	94
25) Chloroform	5.099	83	5520	2.47	ug/l	92
26) Cyclohexane	5.470	56	4589m	2.52	ug/l	
29) 1,1-Dichloropropene	5.702	75	3911	2.29	ug/l	68
30) 2-Butanone	4.562	43	12014	12.43	ug/l #	97
31) 2,2-Dichloropropane	4.477	77	4967m	2.48	ug/l	
32) 1,1,1-Trichloroethane	5.379	97	5078m	2.52	ug/l	
33) Carbon Tetrachloride	5.690	117	4294m	2.51	ug/l	
34) Benzene	6.050	78	12367	2.37	ug/l	99
35) Methacrylonitrile	4.922	41	2979m	2.88	ug/l	
36) 1,2-Dichloroethane	6.086	62	4406	2.48	ug/l	98
37) Trichloroethene	7.129	130	3121	2.38	ug/l	98
38) Methylcyclohexane	7.385	83	4804	2.48	ug/l	99
39) 1,2-Dichloropropane	7.427	63	3133	2.41	ug/l	93
40) Dibromomethane	7.586	93	2322	2.56	ug/l	95
41) Bromodichloromethane	7.824	83	4410	2.44	ug/l	87
42) Vinyl Acetate	3.727	43	42543	11.78	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	5088	2.59	ug/l #	82
44) Isopropyl Acetate	6.348	43	7743	2.39	ug/l #	77
45) 1,4-Dioxane	7.690	88	1463	50.57	ug/l #	100
46) Methyl methacrylate	7.696	41	3686	2.45	ug/l	97
47) n-amyl Acetate	10.841	43	6616	2.45	ug/l	96
48) t-1,3-Dichloropropene	8.982	75	4793	2.36	ug/l	96
49) cis-1,3-Dichloropropene	8.372	75	5205	2.39	ug/l	92
50) 1,1,2-Trichloroethane	9.153	97	3178	2.47	ug/l	93
51) Ethyl methacrylate	9.116	69	5053	2.43	ug/l	95
52) 1,3-Dichloropropane	9.311	76	5564	2.48	ug/l	93
53) Dibromochloromethane	9.518	129	2966	2.29	ug/l	99
54) 1,2-Dibromoethane	9.610	107	3260	2.46	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	14036	12.80	ug/l	97
56) Bromoform	10.799	173	1848	2.25	ug/l #	90
58) 4-Methyl-2-Pentanone	8.574	43	23650	12.32	ug/l	100
59) 2-Hexanone	9.433	43	17494	12.30	ug/l	99
61) Tetrachloroethene	9.281	164	2628	2.43	ug/l	96
62) Toluene	8.720	91	13499	2.48	ug/l	97
64) Chlorobenzene	10.085	112	8206	2.52	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.165	131	3000	2.52	ug/l	94
66) Ethyl Benzene	10.195	91	14211	2.37	ug/l	100
67) m/p-Xylenes	10.305	106	11015	4.85	ug/l	96
68) o-Xylene	10.646	106	5837	2.64	ug/l	89
69) Styrene	10.659	104	8635	2.33	ug/l	99
70) Isopropylbenzene	10.963	105	13923	2.39	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.213	83	4741	2.47	ug/l	94
72) 1,2,3-Trichloropropane	11.244	75	4697m	2.76	ug/l	
73) Bromobenzene	11.201	156	3283	2.66	ug/l	92
74) n-propylbenzene	11.305	91	15855	2.34	ug/l	99
75) 2-Chlorotoluene	11.366	91	9995	2.49	ug/l	95
76) 1,3,5-Trimethylbenzene	11.451	105	11631	2.40	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	1492	2.17	ug/l	79
78) 4-Chlorotoluene	11.457	91	10900	2.36	ug/l	92
79) tert-butylbenzene	11.719	119	11376	2.45	ug/l	98
80) 1,2,4-Trimethylbenzene	11.756	105	11570	2.38	ug/l	95
81) sec-Butylbenzene	11.890	105	13092	2.24	ug/l	97
82) p-Isopropyltoluene	12.012	119	11090	2.27	ug/l	94
83) 1,3-Dichlorobenzene	11.975	146	5307	2.27	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	5614	2.40	ug/l	95
85) n-Butylbenzene	12.335	91	9648	2.15	ug/l	99
86) Hexachloroethane	12.542	117	1777	2.19	ug/l	93
87) 1,2-Dichlorobenzene	12.341	146	5227	2.31	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	12.945	75	974	2.28	ug/l	91
89) 1,2,4-Trichlorobenzene	13.591	180	2800	2.02	ug/l	95
90) Hexachlorobutadiene	13.731	225	1346	2.51	ug/l	99
91) Naphthalene	13.780	128	11348	2.09	ug/l	97
92) 1,2,3-Trichlorobenzene	13.963	180	3027	2.20	ug/l	98

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

