

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040723\
 Data File : VX034965.D
 Acq On : 07 Apr 2023 12:25
 Operator : JC/MD
 Sample : 02213-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT2-2023

Quant Time: Apr 07 23:58:20 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 28 09:11:00 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Krupa
 Patel

04/10/2023
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	4.897	128	30322	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	188932	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	201805	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	83178	28.550	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	95.167%
60) 4-Bromofluorobenzene	11.079	95	119374	29.604	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.667%
63) Toluene-d8	8.647	98	205769	30.004	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.000%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	6317	2.197	ug/l	95
3) Chloromethane	1.294	50	8904	2.388	ug/l	97
4) Vinyl Chloride	1.374	62	8399	2.283	ug/l	98
5) Bromomethane	1.618	94	5429	2.243	ug/l	98
6) Chloroethane	1.691	64	5200	2.172	ug/l	99
7) Trichlorofluoromethane	1.886	101	12614	2.152	ug/l	99
8) Diethyl Ether	2.130	74	4659	2.208	ug/l	85
9) 1,1,2-Trichlorotrifluo...	2.331	101	7247	2.437	ug/l	94
10) 1,1-Dichloroethene	2.319	96	6700	2.226	ug/l	93
11) Methyl Iodide	2.453	142	5859	1.529	ug/l	96
12) Methyl Acetate	2.703	43	15531	2.330	ug/l	99
13) Acrolein	2.239	56	8371	10.830	ug/l	96
14) Acrylonitrile	3.068	53	20647	11.250	ug/l	98
15) Acetone	2.392	58	6746	13.539	ug/l	100
16) Carbon Disulfide	2.514	76	15034	1.953	ug/l	98
17) Allyl chloride	2.660	41	13231	2.272	ug/l	90
18) Methylene Chloride	2.788	84	8639	2.437	ug/l	92
19) trans-1,2-Dichloroethene	3.093	96	7425	2.254	ug/l	93
20) Diisopropyl ether	3.757	45	26726	2.240	ug/l	88
21) 1,1-Dichloroethane	3.611	63	13923	2.182	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	8408	2.192	ug/l	96
23) tert-Butyl Alcohol	2.989	59	9129m	11.055	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	25352	2.267	ug/l	95
25) Chloroform	5.093	83	14709	2.267	ug/l	93
26) Cyclohexane	5.477	56	12689	2.270	ug/l #	57
29) 1,1-Dichloropropene	5.696	75	10868	2.501	ug/l	83
30) 2-Butanone	4.568	43	30679	12.660	ug/l	99
31) 2,2-Dichloropropane	4.477	77	10318	2.341	ug/l	96
32) 1,1,1-Trichloroethane	5.379	97	12169m	2.387	ug/l	
33) Carbon Tetrachloride	5.672	117	9963	2.368	ug/l	96
34) Benzene	6.037	78	30484	2.414	ug/l #	95
35) Methacrylonitrile	4.934	41	6263m	2.361	ug/l	
36) 1,2-Dichloroethane	6.092	62	12698	2.565	ug/l	98
37) Trichloroethene	7.129	130	8359	2.601	ug/l	93
38) Methylcyclohexane	7.385	83	11898	2.506	ug/l	99
39) 1,2-Dichloropropane	7.434	63	7890	2.404	ug/l	98
40) Dibromomethane	7.586	93	5194	2.303	ug/l	97
41) Bromodichloromethane	7.824	83	9302	2.190	ug/l	97
42) Vinyl Acetate	3.721	43	84820	10.729	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	12079	2.570	ug/l	99
44) Isopropyl Acetate	6.342	43	18161	2.283	ug/l	94
45) 1,4-Dioxane	7.708	88	4208m	53.384	ug/l	
46) Methyl methacrylate	7.696	41	8799	2.270	ug/l	94
47) n-amyl Acetate	10.848	43	11467	1.658	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	8074	1.745	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	10012	1.969	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	7950	2.531	ug/l	96
51) Ethyl methacrylate	9.116	69	10542	2.068	ug/l	93
52) 1,3-Dichloropropane	9.311	76	13845	2.495	ug/l	100
53) Dibromochloromethane	9.519	129	6058	1.949	ug/l	99
54) 1,2-Dibromoethane	9.610	107	7590	2.259	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	29282	10.914	ug/l	99
56) Bromoform	10.799	173	3500	1.633	ug/l	92
58) 4-Methyl-2-Pentanone	8.574	43	57236	12.370	ug/l	99
59) 2-Hexanone	9.433	43	41998	12.056	ug/l	95
61) Tetrachloroethene	9.275	164	7633	2.807	ug/l	96
62) Toluene	8.720	91	33048	2.504	ug/l	100
64) Chlorobenzene	10.079	112	20310	2.499	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	5892	2.028	ug/l	93
66) Ethyl Benzene	10.195	91	36073	2.454	ug/l	99
67) m/p-Xylenes	10.299	106	27251	4.873	ug/l	100
68) o-Xylene	10.646	106	13074	2.364	ug/l	97
69) Styrene	10.659	104	19736	2.165	ug/l	96
70) Isopropylbenzene	10.963	105	33257	2.324	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	10971	2.332	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	9319m	2.176	ug/l	
73) Bromobenzene	11.195	156	8432	2.453	ug/l	95
74) n-propylbenzene	11.305	91	37827	2.270	ug/l	98
75) 2-Chlorotoluene	11.366	91	25185	2.425	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	28197	2.340	ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	1827	1.389	ug/l #	57
78) 4-Chlorotoluene	11.457	91	28399	2.385	ug/l	98
79) tert-butylbenzene	11.713	119	26537	2.307	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	27398	2.288	ug/l	98
81) sec-Butylbenzene	11.890	105	30856	2.214	ug/l	100
82) p-Isopropyltoluene	12.006	119	24523	2.085	ug/l	97
83) 1,3-Dichlorobenzene	11.969	146	14572	2.245	ug/l	92
84) 1,4-Dichlorobenzene	12.043	146	15419	2.365	ug/l	100
85) n-Butylbenzene	12.335	91	20542	2.027	ug/l	98
86) Hexachloroethane	12.536	117	3449	1.791	ug/l	87
87) 1,2-Dichlorobenzene	12.335	146	15112	2.379	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	1929	1.876	ug/l	84
89) 1,2,4-Trichlorobenzene	13.585	180	8039	2.110	ug/l	97
90) Hexachlorobutadiene	13.725	225	4119	2.803	ug/l	95
91) Naphthalene	13.774	128	27238	2.023	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	8182	2.148	ug/l	96

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

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