

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112822\
 Data File : VX033100.D
 Acq On : 28 Nov 2022 19:19
 Operator : JC/MD
 Sample : N4955-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT4-2022

Quant Time: Nov 29 03:45:43 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X111022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 11 05:24:06 2022
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 11/29/2022
 Supervised By : Mahesh Dadoda 11/29/2022

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

Internal Standards						
1) Bromochloromethane	4.904	128	11360	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	77838	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	82781	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	32096	29.286	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.633%		
60) 4-Bromofluorobenzene	11.079	95	43072	27.201	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	90.667%		
63) Toluene-d8	8.647	98	82793	29.636	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.800%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	2131	2.120	ug/l	98
3) Chloromethane	1.295	50	2465	2.471	ug/l	98
4) Vinyl Chloride	1.374	62	2863	2.538	ug/l	98
5) Bromomethane	1.618	94	2128	2.125	ug/l	95
6) Chloroethane	1.691	64	2292	2.572	ug/l	94
7) Trichlorofluoromethane	1.892	101	5579	2.565	ug/l	95
8) Diethyl Ether	2.136	74	1967	2.798	ug/l	73
9) 1,1,2-Trichlorotrifluo...	2.331	101	3051	2.637	ug/l	100
10) 1,1-Dichloroethene	2.319	96	2999	2.714	ug/l	92
11) Methyl Iodide	2.459	142	2232	1.879	ug/l	86
12) Methyl Acetate	3.111	43	2072	1.266	ug/l	95
13) Acrolein	2.239	56	2640	12.094	ug/l	91
14) Acrylonitrile	3.075	53	7207	12.281	ug/l	99
15) Acetone	2.392	58	2001	13.113	ug/l	98
16) Carbon Disulfide	2.514	76	7169	2.606	ug/l	100
17) Allyl chloride	2.666	41	4461	2.541	ug/l	90
18) Methylene Chloride	2.794	84	3304	2.592	ug/l #	91
19) trans-1,2-Dichloroethene	3.099	96	3021	2.482	ug/l #	83
20) Diisopropyl ether	3.764	45	9575	2.432	ug/l #	89
21) 1,1-Dichloroethane	3.611	63	5682	2.571	ug/l	92
22) cis-1,2-Dichloroethene	4.489	96	3512	2.471	ug/l #	71
23) tert-Butyl Alcohol	3.020	59	2677m	14.049	ug/l	
24) Methyl tert-Butyl Ether	3.117	73	9360	2.365	ug/l	92
25) Chloroform	5.099	83	6207	2.518	ug/l	99
26) Cyclohexane	5.471	56	4575	2.370	ug/l #	86
29) 1,1-Dichloropropene	5.696	75	4457	2.582	ug/l	81
30) 2-Butanone	4.574	43	9900	12.299	ug/l #	73
31) 2,2-Dichloropropane	4.471	77	4074m	2.759	ug/l	
32) 1,1,1-Trichloroethane	5.391	97	5595	2.577	ug/l #	88
33) Carbon Tetrachloride	5.684	117	4661	2.445	ug/l #	82
34) Benzene	6.044	78	12415	2.552	ug/l #	91
35) Methacrylonitrile	4.928	41	1890m	2.073	ug/l	
36) 1,2-Dichloroethane	6.092	62	5468	2.731	ug/l #	85
37) Trichloroethene	7.129	130	3427	2.518	ug/l	99
38) Methylcyclohexane	7.379	83	4699	2.429	ug/l	89
39) 1,2-Dichloropropane	7.434	63	3082	2.503	ug/l	96
40) Dibromomethane	7.592	93	2449	2.605	ug/l	94
41) Bromodichloromethane	7.824	83	4507	2.515	ug/l	92
42) Vinyl Acetate	3.727	43	35860	11.594	ug/l #	90

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	4081	2.520	ug/l #	89
44) Isopropyl Acetate	6.342	43	6258	2.306	ug/l #	91
45) 1,4-Dioxane	7.708	88	1629m	62.500	ug/l	
46) Methyl methacrylate	7.702	41	3124	2.287	ug/l	93
47) n-amyl Acetate	10.848	43	4561	1.891	ug/l	100
48) t-1,3-Dichloropropene	8.982	75	3889	2.116	ug/l	94
49) cis-1,3-Dichloropropene	8.373	75	4676	2.409	ug/l #	90
50) 1,1,2-Trichloroethane	9.153	97	3314	2.564	ug/l #	90
51) Ethyl methacrylate	9.116	69	4117	2.133	ug/l	90
52) 1,3-Dichloropropane	9.311	76	5621	2.660	ug/l	93
53) Dibromochloromethane	9.525	129	3277	2.331	ug/l	98
54) 1,2-Dibromoethane	9.610	107	3511	2.522	ug/l	100
55) 2-Chloroethyl vinyl ether	8.245	63	9969	10.687	ug/l	93
56) Bromoform	10.799	173	2186	2.172	ug/l	95
58) 4-Methyl-2-Pentanone	8.574	43	20178	12.452	ug/l #	90
59) 2-Hexanone	9.433	43	14489	12.144	ug/l	87
61) Tetrachloroethene	9.275	164	3047	2.634	ug/l	90
62) Toluene	8.720	91	13705	2.546	ug/l	98
64) Chlorobenzene	10.080	112	8597	2.583	ug/l	95
65) 1,1,1,2-Tetrachloroethane	10.165	131	3161	2.493	ug/l	97
66) Ethyl Benzene	10.195	91	14755	2.443	ug/l	95
67) m/p-Xylenes	10.299	106	10751	4.575	ug/l	85
68) o-Xylene	10.640	106	5302	2.299	ug/l	85
69) Styrene	10.659	104	8974	2.341	ug/l	96
70) Isopropylbenzene	10.964	105	14425	2.343	ug/l	95
71) 1,1,2,2-Tetrachloroethane	11.213	83	4921	2.635	ug/l	97
72) 1,2,3-Trichloropropane	11.244	75	4371m	2.695	ug/l	
73) Bromobenzene	11.201	156	3772	2.522	ug/l	89
74) n-propylbenzene	11.305	91	15735	2.249	ug/l	93
75) 2-Chlorotoluene	11.366	91	9978	2.356	ug/l	93
76) 1,3,5-Trimethylbenzene	11.451	105	11411	2.192	ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	966	1.952	ug/l	78
78) 4-Chlorotoluene	11.457	91	11248	2.305	ug/l	89
79) tert-butylbenzene	11.713	119	12073	2.387	ug/l	98
80) 1,2,4-Trimethylbenzene	11.756	105	11386	2.237	ug/l	96
81) sec-Butylbenzene	11.890	105	13435	2.206	ug/l	95
82) p-Isopropyltoluene	12.012	119	10828	2.110	ug/l	97
83) 1,3-Dichlorobenzene	11.969	146	6335	2.308	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	6588	2.391	ug/l	99
85) n-Butylbenzene	12.335	91	9186	2.112	ug/l	91
86) Hexachloroethane	12.536	117	1908	2.265	ug/l	95
87) 1,2-Dichlorobenzene	12.335	146	6448	2.364	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	819	2.067	ug/l	92
89) 1,2,4-Trichlorobenzene	13.591	180	3752	2.239	ug/l	99
90) Hexachlorobutadiene	13.725	225	1689	2.505	ug/l	97
91) Naphthalene	13.780	128	11485	2.031	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	3820	2.267	ug/l	98

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

