

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080824\
 Data File : VX042944.D
 Acq On : 08 Aug 2024 11:04
 Operator : JC/MD
 Sample : P3390-09 2.5PPB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT3-2024

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: Aug 08 14:51:21 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X080624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 07 04:53:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	42810	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	237132	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	215412	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	105863	26.780	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	89.267%#
60) 4-Bromofluorobenzene	11.079	95	97772	27.821	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	92.733%
63) Toluene-d8	8.646	98	291655	29.974	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	6314	2.508	ug/l	97
3) Chloromethane	1.294	50	6490	2.809	ug/l	98
4) Vinyl Chloride	1.373	62	6173	2.502	ug/l	99
5) Bromomethane	1.599	94	4230	2.814	ug/l	85
6) Chloroethane	1.666	64	3960	2.699	ug/l	90
7) Trichlorofluoromethane	1.873	101	10417	2.648	ug/l	97
8) Diethyl Ether	2.135	74	3787	2.450	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.324	101	7245	2.701	ug/l	89
10) 1,1-Dichloroethene	2.306	96	5844	2.281	ug/l	97
11) Methyl Iodide	2.440	142	5404	2.292	ug/l	96
12) Methyl Acetate	2.702	43	9043	1.615	ug/l	94
13) Acrolein	2.239	56	3633	22.436	ug/l	88
14) Acrylonitrile	3.068	53	17403	10.223	ug/l	100
15) Acetone	2.392	58	6500	11.777	ug/l	70
16) Carbon Disulfide	2.507	76	12097	2.269	ug/l #	94
17) Allyl chloride	2.660	41	9850	2.376	ug/l	98
18) Methylene Chloride	2.782	84	7987	2.688	ug/l	93
19) trans-1,2-Dichloroethene	3.087	96	6502	2.492	ug/l	93
20) Diisopropyl ether	3.763	45	21266	2.348	ug/l #	81
21) 1,1-Dichloroethane	3.605	63	11561	2.245	ug/l	98
22) cis-1,2-Dichloroethene	4.495	96	7773	2.374	ug/l	96
23) tert-Butyl Alcohol	2.940	59	7889	10.052	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	21703	2.341	ug/l	100
25) Chloroform	5.092	83	12848m	2.306	ug/l	
26) Cyclohexane	5.464	56	10246	2.522	ug/l #	72
29) 1,1-Dichloropropene	5.690	75	7771	2.543	ug/l	71
30) 2-Butanone	4.580	43	26663	11.848	ug/l	99
31) 2,2-Dichloropropane	4.464	77	9402	2.633	ug/l	98
32) 1,1,1-Trichloroethane	5.385	97	10609	2.508	ug/l #	85
33) Carbon Tetrachloride	5.671	117	9170	2.534	ug/l #	95
34) Benzene	6.031	78	27294	2.790	ug/l	95
35) Methacrylonitrile	4.934	41	4656m	2.190	ug/l	
36) 1,2-Dichloroethane	6.092	62	9870m	2.734	ug/l	
37) Trichloroethene	7.122	130	6689	2.701	ug/l #	80
38) Methylcyclohexane	7.378	83	10242	2.704	ug/l	95
39) 1,2-Dichloropropane	7.433	63	6030	2.418	ug/l	88
40) Dibromomethane	7.592	93	4784	2.540	ug/l	95
41) Bromodichloromethane	7.823	83	7756	2.077	ug/l #	83
42) Vinyl Acetate	3.727	43	82714	12.567	ug/l #	92

08/08/2024
 Supervised By :Mahesh
 Radoda

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.726	43	11102m	2.941	ug/l	
44) Isopropyl Acetate	6.354	43	14303	2.354	ug/l	
45) 1,4-Dioxane	7.683	88	3123m	49.099	ug/l	
46) Methyl methacrylate	7.708	41	6555	2.171	ug/l	93
47) n-amyl Acetate	10.847	43	10585	2.037	ug/l	94
48) t-1,3-Dichloropropene	8.988	75	8114	2.267	ug/l	99
49) cis-1,3-Dichloropropene	8.372	75	9118	2.352	ug/l	94
50) 1,1,2-Trichloroethane	9.152	97	6576	2.560	ug/l #	77
51) Ethyl methacrylate	9.122	69	9259	2.203	ug/l	87
52) 1,3-Dichloropropane	9.311	76	10889	2.583	ug/l	98
53) Dibromochloromethane	9.518	129	6496	2.173	ug/l	99
54) 1,2-Dibromoethane	9.616	107	6801	2.546	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	21806	11.236	ug/l	96
56) Bromoform	10.805	173	4245	1.981	ug/l	99
58) 4-Methyl-2-Pentanone	8.579	43	45402	11.192	ug/l	99
59) 2-Hexanone	9.439	43	35297	11.009	ug/l	94
61) Tetrachloroethene	9.274	164	5976	2.794	ug/l	91
62) Toluene	8.720	91	27852	2.640	ug/l	99
64) Chlorobenzene	10.079	112	16783	2.485	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.165	131	5943	2.424	ug/l	91
66) Ethyl Benzene	10.195	91	29212	2.491	ug/l	98
67) m/p-Xylenes	10.305	106	21644	4.882	ug/l	94
68) o-Xylene	10.646	106	11223	2.568	ug/l	97
69) Styrene	10.658	104	16513	2.194	ug/l	99
70) Isopropylbenzene	10.963	105	27449	2.386	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	9802	2.363	ug/l	95
72) 1,2,3-Trichloropropane	11.244	75	8991m	2.653	ug/l	
73) Bromobenzene	11.201	156	7203	2.464	ug/l	98
74) n-propylbenzene	11.305	91	29463	2.190	ug/l	99
75) 2-Chlorotoluene	11.366	91	20633	2.512	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	21713	2.227	ug/l	96
77) t-1,4-Dichloro-2-butene	11.024	75	2436	2.022	ug/l	84
78) 4-Chlorotoluene	11.457	91	22251	2.362	ug/l	99
79) tert-butylbenzene	11.713	119	22588	2.258	ug/l	98
80) 1,2,4-Trimethylbenzene	11.756	105	21021	2.185	ug/l	96
81) sec-Butylbenzene	11.890	105	26411	2.154	ug/l	99
82) p-Isopropyltoluene	12.006	119	20906	2.036	ug/l	98
83) 1,3-Dichlorobenzene	11.975	146	12661	2.354	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	12006	2.220	ug/l	99
85) n-Butylbenzene	12.335	91	16611	1.795	ug/l	94
86) Hexachloroethane	12.542	117	3751	2.024	ug/l	91
87) 1,2-Dichlorobenzene	12.335	146	12330	2.301	ug/l	94
88) 1,2-Dibromo-3-Chloropr...	12.945	75	2015	2.150	ug/l	91
89) 1,2,4-Trichlorobenzene	13.591	180	6560	1.881	ug/l	96
90) Hexachlorobutadiene	13.725	225	3770	2.502	ug/l	90
91) Naphthalene	13.774	128	22835	1.946	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	7266	2.064	ug/l	96

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

