

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022425\
 Data File : VX045026.D
 Acq On : 24 Feb 2025 12:46
 Operator : JC/MD
 Sample : Q1168-09 2.5PPB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT1-2025

Quant Time: Feb 25 00:30:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 22 01:06:36 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 02/25/2025
 Supervised By : Mahesh Dadoda 02/25/2025

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

Internal Standards						
1) Bromochloromethane	4.885	128	18926	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	101043	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	89995	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	52988	28.826	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.100%		
60) 4-Bromofluorobenzene	11.079	95	47639	28.321	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	94.400%		
63) Toluene-d8	8.647	98	149797	30.088	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.300%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	3863	2.421	ug/l	87
3) Chloromethane	1.301	50	4880m	2.554	ug/l	
4) Vinyl Chloride	1.368	62	4518	2.450	ug/l	96
5) Bromomethane	1.593	94	1942	3.026	ug/l	83
6) Chloroethane	1.672	64	2605m	2.608	ug/l	
7) Trichlorofluoromethane	1.880	101	6125	2.471	ug/l	88
8) Diethyl Ether	2.130	74	2306	2.459	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.325	101	3900	2.650	ug/l	96
10) 1,1-Dichloroethene	2.313	96	3634	2.528	ug/l	93
11) Methyl Iodide	2.447	142	2859	1.757	ug/l #	93
12) Methyl Acetate	2.703	43	4787	2.867	ug/l	98
13) Acrolein	2.233	56	4960	14.822	ug/l	91
14) Acrylonitrile	3.062	53	11303	13.860	ug/l	98
15) Acetone	2.380	58	3979	17.791	ug/l	83
16) Carbon Disulfide	2.508	76	9858	2.417	ug/l	99
17) Allyl chloride	2.654	41	6310	2.347	ug/l	96
18) Methylene Chloride	2.782	84	4067	2.515	ug/l	95
19) trans-1,2-Dichloroethene	3.087	96	3867	2.659	ug/l	93
20) Diisopropyl ether	3.757	45	12495	2.418	ug/l	92
21) 1,1-Dichloroethane	3.599	63	6874	2.392	ug/l #	96
22) cis-1,2-Dichloroethene	4.489	96	4260	2.444	ug/l #	87
23) tert-Butyl Alcohol	2.959	59	5814	20.422	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	11546	2.461	ug/l	95
25) Chloroform	5.086	83	7219	2.601	ug/l	92
26) Cyclohexane	5.458	56	6660	2.511	ug/l #	96
29) 1,1-Dichloropropene	5.690	75	4604	2.477	ug/l	87
30) 2-Butanone	4.568	43	16908	15.749	ug/l #	93
31) 2,2-Dichloropropane	4.465	77	5199	2.474	ug/l #	58
32) 1,1,1-Trichloroethane	5.373	97	5638	2.503	ug/l	98
33) Carbon Tetrachloride	5.666	117	4669	2.457	ug/l	98
34) Benzene	6.031	78	15393	2.641	ug/l	98
35) Methacrylonitrile	4.922	41	2726	2.373	ug/l	91
36) 1,2-Dichloroethane	6.086	62	5317	2.664	ug/l #	88
37) Trichloroethene	7.135	130	3346	2.454	ug/l	94
38) Methylcyclohexane	7.373	83	6233	2.497	ug/l	98
39) 1,2-Dichloropropane	7.428	63	3427	2.365	ug/l	98
40) Dibromomethane	7.580	93	2812	2.704	ug/l	95
41) Bromodichloromethane	7.824	83	5004	2.421	ug/l	90
42) Vinyl Acetate	3.721	43	48987	11.759	ug/l	100

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Quant Time: Feb 25 00:30:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	5623	2.793	ug/l #	90
44) Isopropyl Acetate	6.348	43	7704	2.325	ug/l	93
45) 1,4-Dioxane	7.665	88	1814	52.661	ug/l	94
46) Methyl methacrylate	7.702	41	3825	2.354	ug/l	92
47) n-amyl Acetate	10.848	43	6098	2.121	ug/l	94
48) t-1,3-Dichloropropene	8.982	75	4055	2.035	ug/l	92
49) cis-1,3-Dichloropropene	8.366	75	5329	2.363	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	3553	2.619	ug/l	92
51) Ethyl methacrylate	9.122	69	5060	2.372	ug/l	95
52) 1,3-Dichloropropane	9.305	76	6359	2.676	ug/l	93
53) Dibromochloromethane	9.519	129	3459	2.306	ug/l	94
54) 1,2-Dibromoethane	9.610	107	3559	2.584	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	13387	12.220	ug/l	99
56) Bromoform	10.799	173	2163	2.301	ug/l #	88
58) 4-Methyl-2-Pentanone	8.574	43	27922	13.639	ug/l	100
59) 2-Hexanone	9.433	43	20633	13.944	ug/l	99
61) Tetrachloroethene	9.269	164	2914	2.629	ug/l	93
62) Toluene	8.714	91	15685	2.631	ug/l	99
64) Chlorobenzene	10.073	112	9711	2.629	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	3084	2.530	ug/l	98
66) Ethyl Benzene	10.195	91	16424	2.516	ug/l	95
67) m/p-Xylenes	10.299	106	12083	4.969	ug/l	98
68) o-Xylene	10.640	106	6222	2.608	ug/l	99
69) Styrene	10.659	104	9306	2.335	ug/l	99
70) Isopropylbenzene	10.963	105	15582	2.531	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	5741	2.835	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	4781m	2.871	ug/l	
73) Bromobenzene	11.201	156	3478	2.454	ug/l	96
74) n-propylbenzene	11.305	91	17587	2.400	ug/l	97
75) 2-Chlorotoluene	11.366	91	11256	2.541	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	12757	2.511	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	1058	1.888	ug/l	78
78) 4-Chlorotoluene	11.451	91	11539	2.337	ug/l	98
79) tert-butylbenzene	11.713	119	12834	2.508	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	12234	2.404	ug/l	98
81) sec-Butylbenzene	11.890	105	15242	2.373	ug/l	100
82) p-Isopropyltoluene	12.006	119	12119	2.329	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	6483	2.458	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	6592	2.535	ug/l	99
85) n-Butylbenzene	12.329	91	9473	1.993	ug/l	96
86) Hexachloroethane	12.536	117	2151	2.343	ug/l	92
87) 1,2-Dichlorobenzene	12.335	146	6836	2.642	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	1045	2.666	ug/l	93
89) 1,2,4-Trichlorobenzene	13.591	180	3319	2.116	ug/l	97
90) Hexachlorobutadiene	13.719	225	1558	2.436	ug/l	92
91) Naphthalene	13.774	128	11459	2.072	ug/l	98
92) 1,2,3-Trichlorobenzene	13.963	180	4001	2.478	ug/l	94

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

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