

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086388.D
 Acq On : 23 Apr 2025 17:37
 Operator : JC\MD
 Sample : Q1168-07 2.5PPB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2025

Quant Time: Apr 24 05:36:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 05:35:39 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :John Carlone 04/24/2025
 Supervised By :Mahesh Dadoda 04/25/2025

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

Internal Standards						
1) Bromochloromethane	7.812	128	27238	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	164881	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	149654	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	81725	31.120	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.733%			
60) 4-Bromofluorobenzene	12.841	95	82763	28.138	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 93.800%			
63) Toluene-d8	10.565	98	249052	30.250	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.833%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	4498	2.392	ug/l	94
3) Chloromethane	2.360	50	7857	2.941	ug/l	93
4) Vinyl Chloride	2.512	62	6806	2.660	ug/l	97
5) Bromomethane	2.959	94	4095	3.066	ug/l	99
6) Chloroethane	3.118	64	4709	2.761	ug/l	94
7) Trichlorofluoromethane	3.507	101	8077	2.675	ug/l	95
8) Diethyl Ether	3.965	74	3238m	2.540	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.371	101	4900	2.639	ug/l	54
10) 1,1-Dichloroethene	4.330	96	4744m	2.497	ug/l	
11) Methyl Iodide	4.589	142	6032	2.713	ug/l	96
12) Methyl Acetate	5.030	43	6929	2.573	ug/l	96
13) Acrolein	4.177	56	3315	24.282	ug/l #	67
14) Acrylonitrile	5.724	53	13295	13.263	ug/l	92
15) Acetone	4.430	58	3334	12.070	ug/l #	66
16) Carbon Disulfide	4.706	76	14167	2.829	ug/l	98
17) Allyl chloride	5.030	41	8209m	2.702	ug/l	
18) Methylene Chloride	5.283	84	5984m	2.765	ug/l	
19) trans-1,2-Dichloroethene	5.777	96	5184m	2.560	ug/l	
20) Diisopropyl ether	6.665	45	18170	2.515	ug/l	90
21) 1,1-Dichloroethane	6.565	63	10230	2.587	ug/l	97
22) cis-1,2-Dichloroethene	7.477	96	6544	2.584	ug/l	95
23) tert-Butyl Alcohol	5.518	59	5909	15.217	ug/l #	21
24) Methyl tert-Butyl Ether	5.795	73	18083	2.576	ug/l #	90
25) Chloroform	7.965	83	10560	2.639	ug/l	92
26) Cyclohexane	8.259	56	9117	2.611	ug/l #	95
29) 1,1-Dichloropropene	8.371	75	7443	2.561	ug/l #	55
30) 2-Butanone	7.483	43	18250	12.936	ug/l	99
31) 2,2-Dichloropropane	7.483	77	8790	2.352	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	8923	2.569	ug/l	99
33) Carbon Tetrachloride	8.359	117	7470	2.612	ug/l	89
34) Benzene	8.600	78	23841	2.579	ug/l #	72
35) Methacrylonitrile	7.777	41	4367	2.713	ug/l	84
36) 1,2-Dichloroethane	8.665	62	7912	2.636	ug/l #	80
37) Trichloroethene	9.347	130	6150	2.657	ug/l #	76
38) Methylcyclohexane	9.594	83	8403	2.503	ug/l	100
39) 1,2-Dichloropropane	9.612	63	6107	2.674	ug/l #	84
40) Dibromomethane	9.706	93	3845	2.517	ug/l	97
41) Bromodichloromethane	9.888	83	8091	2.503	ug/l	91
42) Vinyl Acetate	6.600	43	65256	13.352	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	7476	2.678	ug/l #	74
44) Isopropyl Acetate	8.683	43	18266	3.447	ug/l #	86
45) 1,4-Dioxane	9.688	88	2472	59.791	ug/l	95
46) Methyl methacrylate	9.683	41	6460	2.643	ug/l	97
47) n-amyl Acetate	12.488	43	10794	2.390	ug/l	99
48) t-1,3-Dichloropropene	10.830	75	8865	2.453	ug/l	93
49) cis-1,3-Dichloropropene	10.306	75	9238	2.424	ug/l #	93
50) 1,1,2-Trichloroethane	11.012	97	5268	2.469	ug/l #	85
51) Ethyl methacrylate	10.871	69	8901	2.396	ug/l	97
52) 1,3-Dichloropropane	11.159	76	9407	2.495	ug/l	99
53) Dibromochloromethane	11.359	129	5776	2.411	ug/l	96
54) 1,2-Dibromoethane	11.471	107	5364	2.473	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	20582	11.782	ug/l	97
56) Bromoform	12.576	173	3378	2.173	ug/l #	97
58) 4-Methyl-2-Pentanone	10.441	43	38126	13.165	ug/l	99
59) 2-Hexanone	11.194	43	27929	13.087	ug/l	99
61) Tetrachloroethene	11.100	164	5818	2.549	ug/l	89
62) Toluene	10.624	91	26164	2.612	ug/l	100
64) Chlorobenzene	11.882	112	16073	2.575	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.959	131	5463	2.618	ug/l	99
66) Ethyl Benzene	11.959	91	28341	2.514	ug/l	100
67) m/p-Xylenes	12.065	106	20195	4.720	ug/l	98
68) o-Xylene	12.394	106	10048	2.399	ug/l	99
69) Styrene	12.412	104	16256	2.290	ug/l	98
70) Isopropylbenzene	12.688	105	24554	2.348	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	7424	2.696	ug/l	93
72) 1,2,3-Trichloropropane	12.988	75	6293m	2.622	ug/l	
73) Bromobenzene	12.976	156	6014	2.502	ug/l	96
74) n-propylbenzene	13.029	91	28332	2.280	ug/l	97
75) 2-Chlorotoluene	13.118	91	18636	2.403	ug/l	100
76) 1,3,5-Trimethylbenzene	13.171	105	20295	2.365	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	2749	2.257	ug/l	84
78) 4-Chlorotoluene	13.218	91	17804	2.296	ug/l	94
79) tert-butylbenzene	13.435	119	18072	2.459	ug/l	94
80) 1,2,4-Trimethylbenzene	13.476	105	19789	2.258	ug/l	99
81) sec-Butylbenzene	13.612	105	23010	2.194	ug/l	99
82) p-Isopropyltoluene	13.723	119	18456	2.103	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	10481	2.306	ug/l	96
84) 1,4-Dichlorobenzene	13.806	146	10548	2.349	ug/l	96
85) n-Butylbenzene	14.053	91	15250	1.947	ug/l	99
86) Hexachloroethane	14.329	117	3120	2.174	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	10195	2.358	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.718	75	1503	2.686	ug/l #	84
89) 1,2,4-Trichlorobenzene	15.835	180	4022	2.041	ug/l	95
90) Hexachlorobutadiene	15.494	225	1843	2.322	ug/l	98
91) Naphthalene	15.635	128	14900	2.112	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	4022	2.041	ug/l	95

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

