

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100925\
 Data File : VN088052.D
 Acq On : 09 Oct 2025 11:20
 Operator : JC\MD
 Sample : Q2893-09 2.5PPB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2025

Quant Time: Oct 10 00:50:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 09 02:36:32 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 10/10/2025
 Supervised By : Mahesh Dadoda 10/10/2025

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

Internal Standards						
1) Bromochloromethane	7.800	128	60629	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	347050	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	305481	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	146890	31.114	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.700%			
60) 4-Bromofluorobenzene	12.829	95	148614	29.510	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.367%			
63) Toluene-d8	10.541	98	418874	30.776	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	7907	2.277	ug/l	79
3) Chloromethane	2.383	50	9262	2.353	ug/l	98
4) Vinyl Chloride	2.536	62	9820	2.392	ug/l	99
5) Bromomethane	2.995	94	6778m	3.070	ug/l	
6) Chloroethane	3.136	64	6852	2.530	ug/l	90
7) Trichlorofluoromethane	3.518	101	13326	2.387	ug/l	92
8) Diethyl Ether	3.953	74	6837m	2.711	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.377	101	7676m	2.569	ug/l	
10) 1,1-Dichloroethene	4.341	96	9167	2.876	ug/l	82
11) Methyl Iodide	4.583	142	5684m	1.935	ug/l	
12) Methyl Acetate	5.012	43	14260m	2.752	ug/l	
13) Acrolein	4.177	56	11656m	14.534	ug/l	
14) Acrylonitrile	5.706	53	28342	11.333	ug/l	97
15) Acetone	4.424	58	8829	12.055	ug/l	72
16) Carbon Disulfide	4.706	76	25187	2.520	ug/l #	94
17) Allyl chloride	5.018	41	15349	2.552	ug/l	87
18) Methylene Chloride	5.271	84	10281	2.537	ug/l	91
19) trans-1,2-Dichloroethene	5.777	96	10511m	2.852	ug/l	
20) Diisopropyl ether	6.659	45	33752	2.465	ug/l	94
21) 1,1-Dichloroethane	6.553	63	19035	2.670	ug/l	92
22) cis-1,2-Dichloroethene	7.477	96	12265m	2.658	ug/l	
23) tert-Butyl Alcohol	5.512	59	10805	10.772	ug/l #	100
24) Methyl tert-Butyl Ether	5.777	73	35691m	2.594	ug/l	
25) Chloroform	7.947	83	18652	2.535	ug/l	88
26) Cyclohexane	8.241	56	14407	2.439	ug/l #	98
29) 1,1-Dichloropropene	8.353	75	11804	2.373	ug/l	94
30) 2-Butanone	7.477	43	39679	10.815	ug/l	97
31) 2,2-Dichloropropane	7.477	77	15764	2.459	ug/l	93
32) 1,1,1-Trichloroethane	8.153	97	15020	2.416	ug/l	97
33) Carbon Tetrachloride	8.347	117	12556	2.412	ug/l #	88
34) Benzene	8.582	78	38886	2.357	ug/l #	49
35) Methacrylonitrile	7.765	41	9138	2.368	ug/l #	72
36) 1,2-Dichloroethane	8.653	62	14337	2.503	ug/l #	82
37) Trichloroethene	9.341	130	8615m	2.204	ug/l	
38) Methylcyclohexane	9.576	83	15349	2.498	ug/l	96
39) 1,2-Dichloropropane	9.606	63	10466	2.530	ug/l	90
40) Dibromomethane	9.688	93	7575	2.515	ug/l	87
41) Bromodichloromethane	9.859	83	15198m	2.471	ug/l	
42) Vinyl Acetate	6.594	43	141748	11.341	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	17601m	2.496	ug/l	
44) Isopropyl Acetate	8.677	43	25197	2.187	ug/l	93
45) 1,4-Dioxane	9.682	88	3574m	46.650	ug/l	
46) Methyl methacrylate	9.665	41	11808m	2.328	ug/l	
47) n-amyl Acetate	12.847	43	17233m	3.156	ug/l	
48) t-1,3-Dichloropropene	10.812	75	16197	2.368	ug/l	94
49) cis-1,3-Dichloropropene	10.288	75	17137	2.402	ug/l	98
50) 1,1,2-Trichloroethane	11.000	97	9305	2.333	ug/l	94
51) Ethyl methacrylate	10.859	69	15768m	2.336	ug/l	
52) 1,3-Dichloropropane	11.141	76	17530	2.519	ug/l	98
53) Dibromochloromethane	11.335	129	10354	2.172	ug/l	97
54) 1,2-Dibromoethane	11.447	107	10208	2.394	ug/l	100
55) 2-Chloroethyl vinyl ether	10.141	63	32744	8.988	ug/l	98
56) Bromoform	12.564	173	6353	1.971	ug/l	95
58) 4-Methyl-2-Pentanone	10.423	43	76700	11.225	ug/l	96
59) 2-Hexanone	11.182	43	39186	8.686	ug/l	91
61) Tetrachloroethene	11.076	164	8129	2.628	ug/l	89
62) Toluene	10.606	91	42377	2.446	ug/l	96
64) Chlorobenzene	11.870	112	27423	2.478	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.941	131	8615	2.259	ug/l	83
66) Ethyl Benzene	11.941	91	44453	2.359	ug/l	92
67) m/p-Xylenes	12.053	106	34523	4.753	ug/l	98
68) o-Xylene	12.376	106	17069	2.361	ug/l	99
69) Styrene	12.394	104	26140	2.185	ug/l	98
70) Isopropylbenzene	12.676	105	42663	2.407	ug/l	96
71) 1,1,2,2-Tetrachloroethane	12.917	83	13167	2.191	ug/l	100
72) 1,2,3-Trichloropropane	12.976	75	14598m	2.616	ug/l	
73) Bromobenzene	12.959	156	9758	2.253	ug/l	96
74) n-propylbenzene	13.012	91	50827	2.376	ug/l	96
75) 2-Chlorotoluene	13.100	91	32176	2.460	ug/l	97
76) 1,3,5-Trimethylbenzene	13.147	105	35736	2.374	ug/l	95
77) t-1,4-Dichloro-2-butene	12.723	75	5316m	2.391	ug/l	
78) 4-Chlorotoluene	13.200	91	32004	2.408	ug/l	100
79) tert-butylbenzene	13.411	119	31238	2.394	ug/l	97
80) 1,2,4-Trimethylbenzene	13.459	105	34595	2.296	ug/l	98
81) sec-Butylbenzene	13.594	105	44904	2.447	ug/l	97
82) p-Isopropyltoluene	13.706	119	36189	2.310	ug/l	97
83) 1,3-Dichlorobenzene	13.717	146	17759	2.179	ug/l	91
84) 1,4-Dichlorobenzene	13.794	146	19640	2.337	ug/l	98
85) n-Butylbenzene	14.035	91	35413	2.430	ug/l	96
86) Hexachloroethane	14.306	117	6612	2.107	ug/l	99
87) 1,2-Dichlorobenzene	14.088	146	18495	2.307	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.706	75	2719m	1.970	ug/l	
89) 1,2,4-Trichlorobenzene	15.817	180	10573	2.214	ug/l	97
90) Hexachlorobutadiene	15.470	225	4074	2.451	ug/l	93
91) Naphthalene	15.617	128	37538	2.147	ug/l	99
92) 1,2,3-Trichlorobenzene	15.817	180	10573	2.214	ug/l	97

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

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