

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052925\
 Data File : VN086816.D
 Acq On : 29 May 2025 15:29
 Operator : JC\MD
 Sample : Q2126-07 2.5PPB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT2-2025

Quant Time: May 30 02:43:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N052925W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 30 02:22:52 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/30/2025
 Supervised By : Mahesh Dadoda 05/30/2025

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

Internal Standards						
1) Bromochloromethane	7.812	128	37398	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	217816	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	191782	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	79919	31.103	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.667%			
60) 4-Bromofluorobenzene	12.847	95	84781	28.157	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 93.867%			
63) Toluene-d8	10.565	98	265479	30.159	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.533%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.130	85	6161	2.426	ug/l	98
3) Chloromethane	2.359	50	9571	2.923	ug/l	92
4) Vinyl Chloride	2.518	62	7547	2.504	ug/l	99
5) Bromomethane	2.959	94	4892	3.064	ug/l	99
6) Chloroethane	3.124	64	4935	2.677	ug/l	92
7) Trichlorofluoromethane	3.501	101	9248	2.620	ug/l	97
8) Diethyl Ether	3.959	74	3730	2.533	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	5811	2.686	ug/l	54
10) 1,1-Dichloroethene	4.348	96	6016	2.728	ug/l #	79
11) Methyl Iodide	4.583	142	7249	2.788	ug/l	85
12) Methyl Acetate	5.024	43	5720m	2.335	ug/l	
13) Acrolein	4.183	56	5401m	21.345	ug/l	
14) Acrylonitrile	5.724	53	14325	12.568	ug/l	91
15) Acetone	4.424	58	4090	14.172	ug/l	82
16) Carbon Disulfide	4.712	76	18702	2.905	ug/l	98
17) Allyl chloride	5.024	41	9061m	2.765	ug/l	
18) Methylene Chloride	5.277	84	7242m	2.827	ug/l	
19) trans-1,2-Dichloroethene	5.783	96	6558m	2.841	ug/l	
20) Diisopropyl ether	6.671	45	19188	2.659	ug/l	96
21) 1,1-Dichloroethane	6.565	63	11922	2.738	ug/l #	89
22) cis-1,2-Dichloroethene	7.489	96	7756	2.775	ug/l	97
23) tert-Butyl Alcohol	5.518	59	5103m	13.942	ug/l	
24) Methyl tert-Butyl Ether	5.795	73	19246	2.648	ug/l #	82
25) Chloroform	7.959	83	11500	2.698	ug/l	98
26) Cyclohexane	8.247	56	10002	2.654	ug/l #	97
29) 1,1-Dichloropropene	8.365	75	8395	2.621	ug/l	98
30) 2-Butanone	7.483	43	18383	13.101	ug/l	97
31) 2,2-Dichloropropane	7.489	77	10216	2.702	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	9882	2.662	ug/l	99
33) Carbon Tetrachloride	8.359	117	7712	2.430	ug/l	89
34) Benzene	8.606	78	27322	2.622	ug/l #	87
35) Methacrylonitrile	7.777	41	3982m	2.470	ug/l	
36) 1,2-Dichloroethane	8.665	62	8081	2.647	ug/l #	84
37) Trichloroethene	9.347	130	7711	2.668	ug/l	99
38) Methylcyclohexane	9.594	83	9324	2.624	ug/l	94
39) 1,2-Dichloropropane	9.618	63	6450	2.571	ug/l #	87
40) Dibromomethane	9.706	93	4323	2.635	ug/l	99
41) Bromodichloromethane	9.883	83	8862	2.580	ug/l	93
42) Vinyl Acetate	6.600	43	55355	13.534	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	7348	2.559	ug/l #	91
44) Isopropyl Acetate	8.683	43	12844	2.608	ug/l	98
45) 1,4-Dioxane	9.694	88	2156	49.248	ug/l #	91
46) Methyl methacrylate	9.677	41	5475	2.411	ug/l	90
47) n-amyl Acetate	12.494	43	8875	2.244	ug/l	99
48) t-1,3-Dichloropropene	10.829	75	9225	2.510	ug/l	98
49) cis-1,3-Dichloropropene	10.306	75	9884	2.445	ug/l	95
50) 1,1,2-Trichloroethane	11.012	97	6083	2.632	ug/l	93
51) Ethyl methacrylate	10.871	69	8650	2.311	ug/l	91
52) 1,3-Dichloropropane	11.159	76	10304	2.512	ug/l	100
53) Dibromochloromethane	11.353	129	6411	2.455	ug/l	99
54) 1,2-Dibromoethane	11.471	107	6051	2.562	ug/l	99
55) 2-Chloroethyl vinyl ether	10.153	63	18116	10.084	ug/l	98
56) Bromoform	12.571	173	4059	2.467	ug/l #	97
58) 4-Methyl-2-Pentanone	10.441	43	35232	12.520	ug/l	99
59) 2-Hexanone	11.194	43	24932	12.369	ug/l	97
61) Tetrachloroethene	11.100	164	8183	2.538	ug/l	94
62) Toluene	10.630	91	29773	2.756	ug/l	100
64) Chlorobenzene	11.888	112	18440	2.677	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.959	131	5994	2.649	ug/l	94
66) Ethyl Benzene	11.959	91	28474	2.437	ug/l	96
67) m/p-Xylenes	12.071	106	22525	4.913	ug/l	97
68) o-Xylene	12.394	106	10104	2.274	ug/l	92
69) Styrene	12.412	104	16541	2.235	ug/l	96
70) Isopropylbenzene	12.694	105	25105	2.376	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.935	83	7228	2.877	ug/l	92
72) 1,2,3-Trichloropropane	12.988	75	7220m	2.452	ug/l	
73) Bromobenzene	12.976	156	6476	2.466	ug/l	94
74) n-propylbenzene	13.029	91	29966	2.394	ug/l	98
75) 2-Chlorotoluene	13.123	91	20503	2.552	ug/l	99
76) 1,3,5-Trimethylbenzene	13.171	105	20754	2.361	ug/l	97
77) t-1,4-Dichloro-2-butene	12.735	75	2569	2.132	ug/l	82
78) 4-Chlorotoluene	13.223	91	18894	2.374	ug/l	97
79) tert-butylbenzene	13.435	119	16640	2.189	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	19350	2.193	ug/l	100
81) sec-Butylbenzene	13.612	105	23855	2.304	ug/l	99
82) p-Isopropyltoluene	13.729	119	18826	2.165	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	11368	2.359	ug/l	97
84) 1,4-Dichlorobenzene	13.812	146	11312	2.359	ug/l	98
85) n-Butylbenzene	14.053	91	15379	2.113	ug/l	99
86) Hexachloroethane	14.329	117	3540	2.389	ug/l	93
87) 1,2-Dichlorobenzene	14.100	146	10948	2.355	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.717	75	1163	2.198	ug/l	92
89) 1,2,4-Trichlorobenzene	15.829	180	4394	2.259	ug/l	97
90) Hexachlorobutadiene	15.506	225	1927	2.311	ug/l	93
91) Naphthalene	15.641	128	15123	2.228	ug/l	99
92) 1,2,3-Trichlorobenzene	15.829	180	4394	2.259	ug/l	97

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

