

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072825\
 Data File : VN087426.D
 Acq On : 28 Jul 2025 12:27
 Operator : JC\MD
 Sample : VN0728WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0728WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/28/2025
 Supervised By : Mahesh Dadoda 07/29/2025

Quant Time: Jul 28 13:26:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jul 28 11:35:47 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.794	128	87324	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	492311	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	430169	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	200986	30.099	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.333%			
60) 4-Bromofluorobenzene	12.829	95	207570	29.384	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.933%			
63) Toluene-d8	10.547	98	601134	30.429	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.433%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	91454	17.950	ug/l	89
3) Chloromethane	2.383	50	100154	18.518	ug/l	96
4) Vinyl Chloride	2.542	62	101257	18.504	ug/l	99
5) Bromomethane	2.977	94	50703	19.001	ug/l	99
6) Chloroethane	3.142	64	56200	18.209	ug/l	99
7) Trichlorofluoromethane	3.506	101	128329	18.640	ug/l	96
8) Diethyl Ether	3.965	74	53324	18.558	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	71235	18.968	ug/l	97
10) 1,1-Dichloroethene	4.330	96	72950	19.527	ug/l	92
11) Methyl Iodide	4.583	142	55255	16.335	ug/l	95
12) Methyl Acetate	5.012	43	147594	18.120	ug/l	99
13) Acrolein	4.177	56	68059	102.452	ug/l	96
14) Acrylonitrile	5.712	53	323261	91.523	ug/l	99
15) Acetone	4.424	58	73121	89.322	ug/l	93
16) Carbon Disulfide	4.706	76	241838	18.216	ug/l	98
17) Allyl chloride	5.006	41	150530	17.294	ug/l	97
18) Methylene Chloride	5.265	84	99492	17.690	ug/l	92
19) trans-1,2-Dichloroethene	5.777	96	94194	17.748	ug/l	98
20) Diisopropyl ether	6.659	45	368991	18.632	ug/l	99
21) 1,1-Dichloroethane	6.553	63	181537	18.086	ug/l	98
22) cis-1,2-Dichloroethene	7.471	96	114166	17.699	ug/l	100
23) tert-Butyl Alcohol	5.530	59	126852	92.659	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	337583	18.214	ug/l	97
25) Chloroform	7.953	83	182530	18.012	ug/l	98
26) Cyclohexane	8.241	56	168041	18.127	ug/l #	95
29) 1,1-Dichloropropene	8.353	75	127677	18.269	ug/l	98
30) 2-Butanone	7.477	43	469196	92.662	ug/l	99
31) 2,2-Dichloropropane	7.477	77	157108	18.041	ug/l	98
32) 1,1,1-Trichloroethane	8.153	97	151041	17.980	ug/l	98
33) Carbon Tetrachloride	8.341	117	123551	17.836	ug/l	98
34) Benzene	8.588	78	409685	17.923	ug/l	99
35) Methacrylonitrile	7.765	41	100468	17.321	ug/l	96
36) 1,2-Dichloroethane	8.653	62	135618	17.827	ug/l #	93
37) Trichloroethene	9.335	130	93135	17.849	ug/l	94
38) Methylcyclohexane	9.583	83	161359	17.901	ug/l	100
39) 1,2-Dichloropropane	9.600	63	103126	17.920	ug/l	96
40) Dibromomethane	9.694	93	72281	17.706	ug/l	99
41) Bromodichloromethane	9.871	83	148476	18.071	ug/l	94
42) Vinyl Acetate	6.594	43	1519689	89.182	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	185584	17.879	ug/l	# 64
44) Isopropyl Acetate	8.677	43	305680	18.433	ug/l	97
45) 1,4-Dioxane	9.682	88	38982	370.493	ug/l	98
46) Methyl methacrylate	9.665	41	138077	17.882	ug/l	98
47) n-amyl Acetate	12.524	43	137720m	20.144	ug/l	
48) t-1,3-Dichloropropene	10.818	75	164427	17.777	ug/l	99
49) cis-1,3-Dichloropropene	10.294	75	176696	18.190	ug/l	96
50) 1,1,2-Trichloroethane	11.000	97	97314	17.908	ug/l	98
51) Ethyl methacrylate	10.859	69	175363	17.820	ug/l	96
52) 1,3-Dichloropropane	11.141	76	172596	18.378	ug/l	97
53) Dibromochloromethane	11.335	129	109237	17.526	ug/l	99
54) 1,2-Dibromoethane	11.447	107	101930	17.827	ug/l	97
55) 2-Chloroethyl vinyl ether	10.141	63	455334	112.534	ug/l	99
56) Bromoform	12.559	173	75474	17.255	ug/l	99
58) 4-Methyl-2-Pentanone	10.430	43	914849	94.417	ug/l	100
59) 2-Hexanone	11.182	43	600451	89.422	ug/l	99
61) Tetrachloroethene	11.088	164	73261	17.938	ug/l	96
62) Toluene	10.612	91	437376	18.016	ug/l	99
64) Chlorobenzene	11.871	112	265566	17.788	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.941	131	90831	17.942	ug/l	97
66) Ethyl Benzene	11.941	91	484939	18.283	ug/l	100
67) m/p-Xylenes	12.053	106	363461	36.571	ug/l	98
68) o-Xylene	12.376	106	179912	18.499	ug/l	99
69) Styrene	12.394	104	296611	17.830	ug/l	99
70) Isopropylbenzene	12.676	105	450449	18.035	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.918	83	154867	18.184	ug/l	100
72) 1,2,3-Trichloropropane	12.971	75	133853m	17.278	ug/l	
73) Bromobenzene	12.965	156	106415	18.338	ug/l	95
74) n-propylbenzene	13.018	91	564224	18.297	ug/l	100
75) 2-Chlorotoluene	13.106	91	328063	17.926	ug/l	100
76) 1,3,5-Trimethylbenzene	13.153	105	371990	17.978	ug/l	99
77) t-1,4-Dichloro-2-butene	12.718	75	54046	16.441	ug/l	98
78) 4-Chlorotoluene	13.200	91	342077	18.203	ug/l	100
79) tert-butylbenzene	13.418	119	328750	18.392	ug/l	99
80) 1,2,4-Trimethylbenzene	13.465	105	378959	18.457	ug/l	98
81) sec-Butylbenzene	13.594	105	486984	18.341	ug/l	100
82) p-Isopropyltoluene	13.706	119	404782	18.783	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	204168	18.591	ug/l	99
84) 1,4-Dichlorobenzene	13.794	146	203414	17.712	ug/l	96
85) n-Butylbenzene	14.035	91	402107	18.527	ug/l	99
86) Hexachloroethane	14.312	117	77797	17.774	ug/l	99
87) 1,2-Dichlorobenzene	14.088	146	196495	18.405	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.700	75	35569	18.094	ug/l	96
89) 1,2,4-Trichlorobenzene	15.812	180	115539	17.744	ug/l	97
90) Hexachlorobutadiene	15.476	225	46680	18.829	ug/l	97
91) Naphthalene	15.617	128	452703	18.395	ug/l	99
92) 1,2,3-Trichlorobenzene	15.812	180	115539	17.744	ug/l	97

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

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