

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072825\
 Data File : VN087427.D
 Acq On : 28 Jul 2025 13:01
 Operator : JC\MD
 Sample : VN0728WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0728WBSD01

Manual Integrations
 APPROVED

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

Quant Time: Jul 28 13:26:22 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	7.800	128	82214	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	454464	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	401032	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	190251	30.262	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.867%			
60) 4-Bromofluorobenzene	12.829	95	196184	29.790	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.300%			
63) Toluene-d8	10.547	98	561695	30.499	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.667%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	87388	18.218	ug/l	98
3) Chloromethane	2.383	50	90605	17.794	ug/l	92
4) Vinyl Chloride	2.542	62	90689	17.603	ug/l	97
5) Bromomethane	2.983	94	43566	17.341	ug/l	98
6) Chloroethane	3.142	64	53188	18.304	ug/l	97
7) Trichlorofluoromethane	3.512	101	121335	18.720	ug/l	96
8) Diethyl Ether	3.965	74	52378	19.362	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.359	101	63579	17.982	ug/l	60
10) 1,1-Dichloroethene	4.342	96	64269	18.273	ug/l	96
11) Methyl Iodide	4.577	142	50517	15.862	ug/l	97
12) Methyl Acetate	5.024	43	143029	18.651	ug/l	93
13) Acrolein	4.171	56	66233	105.900	ug/l	96
14) Acrylonitrile	5.712	53	309709	93.136	ug/l	98
15) Acetone	4.424	58	73327	95.141	ug/l	95
16) Carbon Disulfide	4.700	76	221693	17.736	ug/l	99
17) Allyl chloride	5.012	41	141414	17.256	ug/l	98
18) Methylene Chloride	5.259	84	94534	17.853	ug/l	90
19) trans-1,2-Dichloroethene	5.777	96	84696	16.951	ug/l	95
20) Diisopropyl ether	6.659	45	349308	18.734	ug/l	100
21) 1,1-Dichloroethane	6.553	63	167413	17.715	ug/l	98
22) cis-1,2-Dichloroethene	7.471	96	104880	17.270	ug/l	99
23) tert-Butyl Alcohol	5.524	59	128537	99.725	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	320681	18.377	ug/l	99
25) Chloroform	7.947	83	167331	17.539	ug/l	99
26) Cyclohexane	8.247	56	154073	17.653	ug/l #	97
29) 1,1-Dichloropropene	8.353	75	118191	18.320	ug/l	99
30) 2-Butanone	7.471	43	456875	97.743	ug/l	99
31) 2,2-Dichloropropane	7.477	77	139667	17.374	ug/l	100
32) 1,1,1-Trichloroethane	8.153	97	140132	18.070	ug/l	98
33) Carbon Tetrachloride	8.341	117	111389	17.420	ug/l	90
34) Benzene	8.588	78	376079	17.823	ug/l	98
35) Methacrylonitrile	7.765	41	99021	18.493	ug/l	98
36) 1,2-Dichloroethane	8.653	62	128684	18.325	ug/l #	93
37) Trichloroethene	9.335	130	86364	17.930	ug/l	83
38) Methylcyclohexane	9.582	83	150606	18.100	ug/l	98
39) 1,2-Dichloropropane	9.606	63	95429	17.963	ug/l	97
40) Dibromomethane	9.694	93	69996	18.574	ug/l	98
41) Bromodichloromethane	9.871	83	138757	18.295	ug/l	93
42) Vinyl Acetate	6.594	43	1442947	91.731	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	162984	17.009	ug/l #	64
44) Isopropyl Acetate	8.677	43	297215	19.416	ug/l	98
45) 1,4-Dioxane	9.682	88	36975	380.683	ug/l #	84
46) Methyl methacrylate	9.665	41	129901	18.224	ug/l	97
47) n-amyl Acetate	12.529	43	122122m	19.350	ug/l	
48) t-1,3-Dichloropropene	10.818	75	157424	18.437	ug/l	95
49) cis-1,3-Dichloropropene	10.294	75	163555	18.239	ug/l	99
50) 1,1,2-Trichloroethane	10.994	97	91889	18.318	ug/l	96
51) Ethyl methacrylate	10.859	69	164790	18.140	ug/l	96
52) 1,3-Dichloropropane	11.147	76	162314	18.722	ug/l	98
53) Dibromochloromethane	11.341	129	105571	18.348	ug/l	97
54) 1,2-Dibromoethane	11.453	107	96478	18.279	ug/l	97
55) 2-Chloroethyl vinyl ether	10.141	63	439906	117.775	ug/l	99
56) Bromoform	12.559	173	70084	17.357	ug/l	98
58) 4-Methyl-2-Pentanone	10.429	43	897982	99.410	ug/l	100
59) 2-Hexanone	11.176	43	591460	94.483	ug/l	99
61) Tetrachloroethene	11.082	164	68211	17.915	ug/l	95
62) Toluene	10.612	91	407240	17.993	ug/l	99
64) Chlorobenzene	11.871	112	246071	17.679	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.941	131	86341	18.294	ug/l	99
66) Ethyl Benzene	11.941	91	448375	18.133	ug/l	97
67) m/p-Xylenes	12.053	106	338484	36.533	ug/l	98
68) o-Xylene	12.376	106	165907	18.298	ug/l	99
69) Styrene	12.394	104	272287	17.557	ug/l	99
70) Isopropylbenzene	12.676	105	419334	18.009	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.918	83	150519	18.958	ug/l	98
72) 1,2,3-Trichloropropane	12.976	75	129701m	17.959	ug/l	
73) Bromobenzene	12.959	156	97430	18.009	ug/l	98
74) n-propylbenzene	13.018	91	529758	18.427	ug/l	99
75) 2-Chlorotoluene	13.106	91	304751	17.862	ug/l	100
76) 1,3,5-Trimethylbenzene	13.153	105	354584	18.382	ug/l	97
77) t-1,4-Dichloro-2-butene	12.718	75	51754	16.888	ug/l	95
78) 4-Chlorotoluene	13.200	91	311288	17.768	ug/l	99
79) tert-butylbenzene	13.417	119	305198	18.314	ug/l	100
80) 1,2,4-Trimethylbenzene	13.465	105	348541	18.209	ug/l	99
81) sec-Butylbenzene	13.594	105	457951	18.501	ug/l	99
82) p-Isopropyltoluene	13.706	119	374764	18.653	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	189259	18.485	ug/l	98
84) 1,4-Dichlorobenzene	13.794	146	189537	17.703	ug/l	98
85) n-Butylbenzene	14.035	91	377205	18.642	ug/l	99
86) Hexachloroethane	14.312	117	74347	18.220	ug/l	95
87) 1,2-Dichlorobenzene	14.088	146	179575	18.043	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.700	75	32966	17.989	ug/l	97
89) 1,2,4-Trichlorobenzene	15.817	180	111169	18.313	ug/l	100
90) Hexachlorobutadiene	15.476	225	43477	18.811	ug/l	99
91) Naphthalene	15.617	128	425912	18.564	ug/l	99
92) 1,2,3-Trichlorobenzene	15.817	180	111169	18.313	ug/l	100

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

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