

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
 Data File : VN088034.D
 Acq On : 08 Oct 2025 11:12
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Quant Time: Oct 09 02:04:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 09 01:59:51 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 10/09/2025
 Supervised By : Mahesh Dadoda 10/10/2025

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

Internal Standards						
1) Bromochloromethane	7.800	128	70768	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	396399	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	360347	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	164118	29.782	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.267%		
60) 4-Bromofluorobenzene	12.829	95	176216	29.663	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.867%		
63) Toluene-d8	10.547	98	480539	29.931	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.767%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	614191	151.526	ug/l	95
3) Chloromethane	2.383	50	688323	149.783	ug/l	98
4) Vinyl Chloride	2.536	62	700818	146.257	ug/l	100
5) Bromomethane	2.954	94	390993	151.745	ug/l	96
6) Chloroethane	3.124	64	447592	141.605	ug/l	95
7) Trichlorofluoromethane	3.506	101	939283	144.151	ug/l	100
8) Diethyl Ether	3.959	74	416480	141.459	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.359	101	499641	143.242	ug/l	97
10) 1,1-Dichloroethene	4.330	96	529290	142.248	ug/l	98
11) Methyl Iodide	4.577	142	649112	189.280	ug/l	96
12) Methyl Acetate	5.018	43	874170	148.543	ug/l	90
13) Acrolein	4.171	56	722228	771.539	ug/l #	6
14) Acrylonitrile	5.706	53	2111000	723.151	ug/l	100
15) Acetone	4.424	58	565771	659.761	ug/l	92
16) Carbon Disulfide	4.700	76	1690921	144.966	ug/l	100
17) Allyl chloride	5.006	41	1008388	143.620	ug/l	98
18) Methylene Chloride	5.259	84	670686	141.817	ug/l	97
19) trans-1,2-Dichloroethene	5.771	96	628517	146.099	ug/l	89
20) Diisopropyl ether	6.659	45	2377730	148.749	ug/l	97
21) 1,1-Dichloroethane	6.547	63	1214899	145.997	ug/l	96
22) cis-1,2-Dichloroethene	7.471	96	768626	142.727	ug/l	98
23) tert-Butyl Alcohol	5.536	59	789077	673.981	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	2330339	145.094	ug/l	99
25) Chloroform	7.947	83	1228670	143.082	ug/l	97
26) Cyclohexane	8.241	56	1000427	145.104	ug/l #	96
29) 1,1-Dichloropropene	8.353	75	836265	147.179	ug/l	97
30) 2-Butanone	7.471	43	2998106	715.429	ug/l	98
31) 2,2-Dichloropropane	7.471	77	1019106	139.013	ug/l	100
32) 1,1,1-Trichloroethane	8.153	97	1018706	143.482	ug/l	99
33) Carbon Tetrachloride	8.341	117	869642	146.233	ug/l	97
34) Benzene	8.588	78	2743909	145.591	ug/l	98
35) Methacrylonitrile	7.765	41	627210	142.327	ug/l	97
36) 1,2-Dichloroethane	8.653	62	954996	145.960	ug/l	99
37) Trichloroethene	9.335	130	642810	143.961	ug/l	100
38) Methylcyclohexane	9.582	83	1002978	142.937	ug/l	98
39) 1,2-Dichloropropane	9.600	63	688269	145.644	ug/l	99
40) Dibromomethane	9.688	93	497967	144.763	ug/l	98
41) Bromodichloromethane	9.871	83	1015193	144.501	ug/l	98
42) Vinyl Acetate	6.589	43	11007914	771.067	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	1168944	145.110	ug/l	94
44) Isopropyl Acetate	8.677	43	1946213	147.920	ug/l	98
45) 1,4-Dioxane	9.682	88	230506	2634.144	ug/l	98
46) Methyl methacrylate	9.665	41	878594	151.633	ug/l	98
47) n-amyl Acetate	12.482	43	1141223	197.401	ug/l #	64
48) t-1,3-Dichloropropene	10.818	75	1169571	149.712	ug/l	100
49) cis-1,3-Dichloropropene	10.294	75	1203477	147.684	ug/l	96
50) 1,1,2-Trichloroethane	10.994	97	657933	144.430	ug/l	97
51) Ethyl methacrylate	10.853	69	1210974	157.077	ug/l	99
52) 1,3-Dichloropropane	11.141	76	1159064	145.836	ug/l	100
53) Dibromochloromethane	11.341	129	802448	147.348	ug/l	100
54) 1,2-Dibromoethane	11.447	107	713476	146.499	ug/l	100
55) 2-Chloroethyl vinyl ether	10.141	63	3115151	748.593	ug/l	99
56) Bromoform	12.559	173	556224	151.071	ug/l	99
58) 4-Methyl-2-Pentanone	10.424	43	5819803	722.051	ug/l	99
59) 2-Hexanone	11.177	43	4169658	783.538	ug/l	100
61) Tetrachloroethene	11.082	164	517435	141.798	ug/l	94
62) Toluene	10.612	91	2951946	144.419	ug/l	99
64) Chlorobenzene	11.871	112	1890882	144.832	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.941	131	643792	143.089	ug/l	98
66) Ethyl Benzene	11.941	91	3229064	145.284	ug/l	98
67) m/p-Xylenes	12.047	106	2496336	291.347	ug/l	99
68) o-Xylene	12.376	106	1219294	142.948	ug/l	95
69) Styrene	12.388	104	2093655	148.383	ug/l	99
70) Isopropylbenzene	12.671	105	3025763	144.736	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.918	83	1009711	142.462	ug/l	99
72) 1,2,3-Trichloropropane	12.971	75	944811m	137.329	ug/l	
73) Bromobenzene	12.959	156	732655	143.390	ug/l	95
74) n-propylbenzene	13.012	91	3681361	145.874	ug/l	99
75) 2-Chlorotoluene	13.106	91	2247982	145.681	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	2531712	142.568	ug/l	99
77) t-1,4-Dichloro-2-butene	12.718	75	417387	163.941	ug/l	90
78) 4-Chlorotoluene	13.200	91	2320550	148.022	ug/l	98
79) tert-butylbenzene	13.418	119	2189957	142.259	ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	2534010	142.543	ug/l	98
81) sec-Butylbenzene	13.594	105	3085212	142.543	ug/l	99
82) p-Isopropyltoluene	13.706	119	2589136	140.112	ug/l	100
83) 1,3-Dichlorobenzene	13.712	146	1360760	141.545	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	1422602	143.484	ug/l	99
85) n-Butylbenzene	14.035	91	2454577	142.775	ug/l	99
86) Hexachloroethane	14.312	117	525061	141.838	ug/l	97
87) 1,2-Dichlorobenzene	14.082	146	1340645	141.778	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.694	75	233320	143.337	ug/l	96
89) 1,2,4-Trichlorobenzene	15.812	180	829215	147.221	ug/l	99
90) Hexachlorobutadiene	15.476	225	273878	139.711	ug/l	96
91) Naphthalene	15.612	128	3044921	147.662	ug/l	100
92) 1,2,3-Trichlorobenzene	15.812	180	829215	147.221	ug/l	99

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

