

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087455.D
 Acq On : 05 Aug 2025 14:40
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Aug 06 01:29:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 01:24:35 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/06/2025
 Supervised By : Mahesh Dadoda 08/06/2025

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

Internal Standards						
1) Bromochloromethane	7.794	128	70635	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	389326	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	359656	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	191012	29.319	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.733%		
60) 4-Bromofluorobenzene	12.829	95	186862	30.190	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.633%		
63) Toluene-d8	10.547	98	498338	30.114	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.367%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	473762	102.730	ug/l	97
3) Chloromethane	2.383	50	466952	98.689	ug/l	99
4) Vinyl Chloride	2.536	62	508879	101.402	ug/l	97
5) Bromomethane	2.959	94	287163	105.716	ug/l	87
6) Chloroethane	3.130	64	325044	100.444	ug/l	99
7) Trichlorofluoromethane	3.506	101	716379	99.189	ug/l	99
8) Diethyl Ether	3.959	74	295673	98.265	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.365	101	359828	97.700	ug/l	88
10) 1,1-Dichloroethene	4.330	96	380598	98.381	ug/l	98
11) Methyl Iodide	4.577	142	380217	125.440	ug/l	91
12) Methyl Acetate	5.012	43	736494	103.164	ug/l	97
13) Acrolein	4.171	56	549240	503.847	ug/l	99
14) Acrylonitrile	5.706	53	1571651	504.158	ug/l	100
15) Acetone	4.424	58	418923	470.323	ug/l	93
16) Carbon Disulfide	4.700	76	1199576	99.962	ug/l	100
17) Allyl chloride	5.012	41	801152	101.602	ug/l	95
18) Methylene Chloride	5.265	84	494371	99.285	ug/l	94
19) trans-1,2-Dichloroethene	5.771	96	453658	98.611	ug/l	93
20) Diisopropyl ether	6.659	45	1832338	102.051	ug/l	98
21) 1,1-Dichloroethane	6.553	63	929854	100.142	ug/l	99
22) cis-1,2-Dichloroethene	7.477	96	565755	99.948	ug/l	99
23) tert-Butyl Alcohol	5.530	59	656761	495.796	ug/l #	100
24) Methyl tert-Butyl Ether	5.788	73	1772627	100.557	ug/l	99
25) Chloroform	7.947	83	966531	99.723	ug/l	100
26) Cyclohexane	8.241	56	754564	101.498	ug/l #	99
29) 1,1-Dichloropropene	8.353	75	642951	101.253	ug/l	98
30) 2-Butanone	7.471	43	2366356	505.563	ug/l	100
31) 2,2-Dichloropropane	7.477	77	825382	100.781	ug/l	100
32) 1,1,1-Trichloroethane	8.153	97	825110	101.882	ug/l	96
33) Carbon Tetrachloride	8.341	117	683314	101.563	ug/l	97
34) Benzene	8.588	78	2050407	102.292	ug/l	97
35) Methacrylonitrile	7.765	41	495672	98.134	ug/l	97
36) 1,2-Dichloroethane	8.653	62	812745	100.306	ug/l	100
37) Trichloroethene	9.335	130	446892	101.212	ug/l	94
38) Methylcyclohexane	9.582	83	747573	101.482	ug/l	98
39) 1,2-Dichloropropane	9.600	63	518393	100.868	ug/l	95
40) Dibromomethane	9.688	93	386489	100.231	ug/l	96
41) Bromodichloromethane	9.871	83	808690	100.928	ug/l	98
42) Vinyl Acetate	6.588	43	7820160	507.335	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	907628	101.868	ug/l	97
44) Isopropyl Acetate	8.677	43	1558470	101.675	ug/l	99
45) 1,4-Dioxane	9.682	88	194002	1985.385	ug/l	96
46) Methyl methacrylate	9.665	41	732745	101.273	ug/l	92
47) n-amyl Acetate	12.488	43	992295	128.748	ug/l #	60
48) t-1,3-Dichloropropene	10.818	75	908224	104.188	ug/l	100
49) cis-1,3-Dichloropropene	10.294	75	903230	102.958	ug/l	97
50) 1,1,2-Trichloroethane	11.000	97	500440	102.720	ug/l	96
51) Ethyl methacrylate	10.853	69	926992	108.040	ug/l	97
52) 1,3-Dichloropropane	11.141	76	892266	101.657	ug/l	98
53) Dibromochloromethane	11.341	129	590310	104.918	ug/l	100
54) 1,2-Dibromoethane	11.447	107	537806	103.987	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	2236990	495.251	ug/l	99
56) Bromoform	12.559	173	402717	108.214	ug/l #	98
58) 4-Methyl-2-Pentanone	10.429	43	4678202	505.641	ug/l	99
59) 2-Hexanone	11.176	43	3365074	535.301	ug/l	100
61) Tetrachloroethene	11.082	164	347945	99.301	ug/l	97
62) Toluene	10.612	91	2222660	100.129	ug/l	100
64) Chlorobenzene	11.870	112	1377291	100.975	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.941	131	486095	101.362	ug/l	98
66) Ethyl Benzene	11.941	91	2510073	101.451	ug/l	97
67) m/p-Xylenes	12.047	106	1841924	202.817	ug/l	99
68) o-Xylene	12.376	106	906317	101.440	ug/l	100
69) Styrene	12.388	104	1585501	103.928	ug/l	99
70) Isopropylbenzene	12.676	105	2334192	102.833	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.917	83	784278	100.840	ug/l	100
72) 1,2,3-Trichloropropane	12.970	75	753853m	94.296	ug/l	
73) Bromobenzene	12.959	156	540169	102.653	ug/l	98
74) n-propylbenzene	13.012	91	2895579	102.142	ug/l	100
75) 2-Chlorotoluene	13.106	91	1757134	100.765	ug/l	98
76) 1,3,5-Trimethylbenzene	13.153	105	1972967	101.515	ug/l	99
77) t-1,4-Dichloro-2-butene	12.717	75	312541	113.952	ug/l	92
78) 4-Chlorotoluene	13.200	91	1813669	102.633	ug/l	98
79) tert-butylbenzene	13.417	119	1672735	102.082	ug/l	98
80) 1,2,4-Trimethylbenzene	13.459	105	1998320	102.898	ug/l	100
81) sec-Butylbenzene	13.594	105	2416128	101.283	ug/l	100
82) p-Isopropyltoluene	13.706	119	2001765	101.064	ug/l	100
83) 1,3-Dichlorobenzene	13.711	146	1015919	101.387	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	1028636	101.255	ug/l	99
85) n-Butylbenzene	14.035	91	1987536	102.562	ug/l	98
86) Hexachloroethane	14.311	117	399888	103.386	ug/l	97
87) 1,2-Dichlorobenzene	14.082	146	976220	102.064	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.700	75	199216	101.112	ug/l	95
89) 1,2,4-Trichlorobenzene	15.811	180	582952	101.981	ug/l	100
90) Hexachlorobutadiene	15.476	225	212184	95.460	ug/l	95
91) Naphthalene	15.611	128	2259551	103.669	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	582952	101.981	ug/l	100

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

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