

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112025\
 Data File : VN088331.D
 Acq On : 20 Nov 2025 15:11
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: Nov 21 03:03:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N11325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 14 00:49:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.794	128	54907	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	287275	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	254032	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	146075	29.125	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.100%
60) 4-Bromofluorobenzene	12.829	95	120525	28.066	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	93.567%
63) Toluene-d8	10.547	98	370485	30.805	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	102.667%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	70717	18.322	ug/l	99
3) Chloromethane	2.383	50	73290	18.417	ug/l	95
4) Vinyl Chloride	2.536	62	79011	18.777	ug/l	96
5) Bromomethane	2.983	94	35480	15.814	ug/l	85
6) Chloroethane	3.142	64	49378	18.985	ug/l	98
7) Trichlorofluoromethane	3.518	101	106697	18.086	ug/l	90
8) Diethyl Ether	3.959	74	43492	19.725	ug/l	93
9) 1,1,2-Trichlorotrifluo...	4.365	101	57584	18.606	ug/l	72
10) 1,1-Dichloroethene	4.330	96	57940m	19.190	ug/l	
11) Methyl Iodide	4.577	142	49694	15.466	ug/l #	88
12) Methyl Acetate	5.012	43	105288	21.616	ug/l	98
13) Acrolein	4.177	56	87330	121.857	ug/l	97
14) Acrylonitrile	5.706	53	225985	102.102	ug/l	97
15) Acetone	4.418	58	49329	76.212	ug/l	96
16) Carbon Disulfide	4.706	76	188606	18.522	ug/l	98
17) Allyl chloride	5.012	41	109864	18.725	ug/l	94
18) Methylene Chloride	5.265	84	74812	19.935	ug/l	94
19) trans-1,2-Dichloroethene	5.777	96	67487	19.195	ug/l	96
20) Diisopropyl ether	6.653	45	250773	20.002	ug/l	99
21) 1,1-Dichloroethane	6.553	63	140400	19.877	ug/l	98
22) cis-1,2-Dichloroethene	7.471	96	81678	19.988	ug/l	94
23) tert-Butyl Alcohol	5.518	59	79584	97.786	ug/l #	100
24) Methyl tert-Butyl Ether	5.788	73	237705	19.527	ug/l	99
25) Chloroform	7.947	83	141031	20.150	ug/l	100
26) Cyclohexane	8.235	56	104811	17.567	ug/l #	92
29) 1,1-Dichloropropene	8.353	75	89139	18.596	ug/l	97
30) 2-Butanone	7.471	43	288886	93.171	ug/l	99
31) 2,2-Dichloropropane	7.477	77	119800	20.264	ug/l	100
32) 1,1,1-Trichloroethane	8.147	97	114870	19.440	ug/l	98
33) Carbon Tetrachloride	8.347	117	93322	18.494	ug/l	96
34) Benzene	8.588	78	291593	20.352	ug/l	98
35) Methacrylonitrile	7.765	41	69752	21.567	ug/l	97
36) 1,2-Dichloroethane	8.653	62	114728	20.575	ug/l	100
37) Trichloroethene	9.329	130	66021	20.334	ug/l	95
38) Methylcyclohexane	9.582	83	93173	16.955	ug/l	98
39) 1,2-Dichloropropane	9.600	63	77013	20.834	ug/l #	87
40) Dibromomethane	9.688	93	55121	20.754	ug/l	98
41) Bromodichloromethane	9.865	83	110916	20.746	ug/l	97
42) Vinyl Acetate	6.588	43	1150620	111.185	ug/l	98

11/21/2025
 Supervised By :Semsettin
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11/21/2025

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	127086	20.371	ug/l	100
44) Isopropyl Acetate	8.671	43	199609	20.762	ug/l	100
45) 1,4-Dioxane	9.676	88	25947	448.157	ug/l #	91
46) Methyl methacrylate	9.665	41	91922	20.432	ug/l	97
47) n-amyl Acetate	12.682	43	57576m	11.818	ug/l	
48) t-1,3-Dichloropropene	10.818	75	111360	19.474	ug/l	96
49) cis-1,3-Dichloropropene	10.288	75	122149	20.530	ug/l	94
50) 1,1,2-Trichloroethane	10.994	97	69766	21.244	ug/l	95
51) Ethyl methacrylate	10.859	69	106312	19.676	ug/l	96
52) 1,3-Dichloropropane	11.141	76	121476	20.311	ug/l	99
53) Dibromochloromethane	11.341	129	77067	20.430	ug/l	97
54) 1,2-Dibromoethane	11.447	107	70948	20.793	ug/l	97
55) 2-Chloroethyl vinyl ether	10.141	63	291310	93.596	ug/l	98
56) Bromoform	12.559	173	46355	19.414	ug/l	99
58) 4-Methyl-2-Pentanone	10.423	43	623224	108.470	ug/l	99
59) 2-Hexanone	11.176	43	377132	98.849	ug/l	98
61) Tetrachloroethene	11.082	164	62760	23.962	ug/l	96
62) Toluene	10.612	91	309541	21.233	ug/l	96
64) Chlorobenzene	11.870	112	185737	20.572	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.941	131	65858	21.312	ug/l	97
66) Ethyl Benzene	11.941	91	308789	19.219	ug/l	99
67) m/p-Xylenes	12.047	106	234259	38.989	ug/l	99
68) o-Xylene	12.376	106	110080	19.421	ug/l	98
69) Styrene	12.394	104	185519	19.272	ug/l	99
70) Isopropylbenzene	12.676	105	279360	18.598	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.917	83	95850	19.699	ug/l	100
72) 1,2,3-Trichloropropane	12.970	75	86233m	18.294	ug/l	
73) Bromobenzene	12.959	156	69420	20.471	ug/l	95
74) n-propylbenzene	13.012	91	347145	18.675	ug/l	99
75) 2-Chlorotoluene	13.106	91	213749	18.910	ug/l	100
76) 1,3,5-Trimethylbenzene	13.153	105	230970	18.318	ug/l	99
77) t-1,4-Dichloro-2-butene	12.717	75	29857	18.444	ug/l	99
78) 4-Chlorotoluene	13.200	91	216928	18.938	ug/l	97
79) tert-butylbenzene	13.417	119	195630	18.122	ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	233494	18.623	ug/l	98
81) sec-Butylbenzene	13.594	105	282837	17.963	ug/l	100
82) p-Isopropyltoluene	13.706	119	237606	18.263	ug/l	97
83) 1,3-Dichlorobenzene	13.711	146	130959	19.876	ug/l	98
84) 1,4-Dichlorobenzene	13.794	146	130775	19.599	ug/l	98
85) n-Butylbenzene	14.035	91	221622	17.873	ug/l	99
86) Hexachloroethane	14.311	117	36857	14.795	ug/l	99
87) 1,2-Dichlorobenzene	14.088	146	122806	19.747	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.694	75	22166	19.381	ug/l	96
89) 1,2,4-Trichlorobenzene	15.811	180	68025	19.492	ug/l	99
90) Hexachlorobutadiene	15.476	225	26070	19.236	ug/l	99
91) Naphthalene	15.611	128	255261	20.215	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	68025	19.492	ug/l	99

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

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