

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111425\
 Data File : VN088282.D
 Acq On : 14 Nov 2025 09:07
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Quant Time: Nov 14 21:46:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 14 00:49:21 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John
 Carlone

11/17/2025
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	7.794	128	56753	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	292349	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	258679	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	149883	28.912	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	96.367%
60) 4-Bromofluorobenzene	12.829	95	130266	29.790	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	99.300%
63) Toluene-d8	10.547	98	365993	29.885	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.600%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	70469	17.664	ug/l	99
3) Chloromethane	2.383	50	77904	18.940	ug/l	97
4) Vinyl Chloride	2.536	62	76500	17.589	ug/l	97
5) Bromomethane	2.983	94	45280	19.525	ug/l	86
6) Chloroethane	3.142	64	47922	17.826	ug/l	96
7) Trichlorofluoromethane	3.512	101	103380	16.954	ug/l	95
8) Diethyl Ether	3.965	74	43386	19.037	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	52751	16.490	ug/l	72
10) 1,1-Dichloroethene	4.336	96	55978	17.937	ug/l	92
11) Methyl Iodide	4.577	142	55666	16.761	ug/l	89
12) Methyl Acetate	5.018	43	97586	19.383	ug/l	99
13) Acrolein	4.177	56	66384	89.617	ug/l	99
14) Acrylonitrile	5.706	53	221278	96.723	ug/l	98
15) Acetone	4.424	58	71977	107.586	ug/l	97
16) Carbon Disulfide	4.706	76	188992	17.956	ug/l	98
17) Allyl chloride	5.012	41	111829	18.440	ug/l	95
18) Methylene Chloride	5.265	84	74926	19.316	ug/l	96
19) trans-1,2-Dichloroethene	5.783	96	66706	18.356	ug/l	96
20) Diisopropyl ether	6.659	45	246854	19.049	ug/l	95
21) 1,1-Dichloroethane	6.553	63	132554	18.156	ug/l	97
22) cis-1,2-Dichloroethene	7.471	96	78155	18.504	ug/l	97
23) tert-Butyl Alcohol	5.518	59	77299	91.889	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	241766	19.214	ug/l #	75
25) Chloroform	7.947	83	134330	18.568	ug/l	93
26) Cyclohexane	8.241	56	100977	16.374	ug/l #	95
29) 1,1-Dichloropropene	8.353	75	88757	18.195	ug/l	98
30) 2-Butanone	7.471	43	322492	102.204	ug/l	99
31) 2,2-Dichloropropane	7.471	77	112063	18.626	ug/l	100
32) 1,1,1-Trichloroethane	8.153	97	110767	18.420	ug/l	98
33) Carbon Tetrachloride	8.341	117	91711	17.860	ug/l	99
34) Benzene	8.588	78	279477	19.168	ug/l	96
35) Methacrylonitrile	7.765	41	64369	19.557	ug/l	95
36) 1,2-Dichloroethane	8.653	62	114265	20.137	ug/l	99
37) Trichloroethene	9.335	130	62874	19.029	ug/l	99
38) Methylcyclohexane	9.576	83	87911	15.720	ug/l	97
39) 1,2-Dichloropropane	9.600	63	73389	19.509	ug/l	96
40) Dibromomethane	9.688	93	53825	19.915	ug/l	98
41) Bromodichloromethane	9.870	83	108899	20.015	ug/l	96
42) Vinyl Acetate	6.588	43	1021613	97.006	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.541	43	122405	19.280	ug/l	98
44) Isopropyl Acetate	8.671	43	191740	19.597	ug/l	100
45) 1,4-Dioxane	9.682	88	22316	378.753	ug/l #	95
46) Methyl methacrylate	9.665	41	89606	19.571	ug/l	89
47) n-amyl Acetate	12.682	43	76641m	15.458	ug/l	
48) t-1,3-Dichloropropene	10.818	75	110268	18.948	ug/l	99
49) cis-1,3-Dichloropropene	10.294	75	119341	19.710	ug/l	96
50) 1,1,2-Trichloroethane	10.994	97	66320	19.844	ug/l	98
51) Ethyl methacrylate	10.853	69	101720	18.500	ug/l	97
52) 1,3-Dichloropropane	11.141	76	118417	19.456	ug/l	98
53) Dibromochloromethane	11.335	129	76785	20.002	ug/l	100
54) 1,2-Dibromoethane	11.447	107	67347	19.395	ug/l	98
55) 2-Chloroethyl vinyl ether	10.141	63	260441	82.226	ug/l	98
56) Bromoform	12.559	173	45527	18.737	ug/l	97
58) 4-Methyl-2-Pentanone	10.423	43	594651	101.638	ug/l	99
59) 2-Hexanone	11.176	43	404541	104.129	ug/l	99
61) Tetrachloroethene	11.082	164	50923	19.094	ug/l	94
62) Toluene	10.606	91	289263	19.486	ug/l	98
64) Chlorobenzene	11.870	112	181009	19.688	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.941	131	63696	20.242	ug/l	99
66) Ethyl Benzene	11.941	91	307462	18.793	ug/l	98
67) m/p-Xylenes	12.053	106	223869	36.590	ug/l	97
68) o-Xylene	12.376	106	107785	18.675	ug/l	97
69) Styrene	12.394	104	181322	18.497	ug/l	98
70) Isopropylbenzene	12.676	105	275978	18.043	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.917	83	101244	20.434	ug/l	98
72) 1,2,3-Trichloropropane	12.970	75	100507m	20.939	ug/l	
73) Bromobenzene	12.959	156	67754	19.621	ug/l	95
74) n-propylbenzene	13.011	91	343303	18.136	ug/l	100
75) 2-Chlorotoluene	13.106	91	214918	18.672	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	240526	18.733	ug/l	99
77) t-1,4-Dichloro-2-butene	12.717	75	30604m	18.566	ug/l	
78) 4-Chlorotoluene	13.200	91	217919	18.683	ug/l	99
79) tert-butylbenzene	13.417	119	194329	17.678	ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	238237	18.660	ug/l	100
81) sec-Butylbenzene	13.594	105	283792	17.700	ug/l	99
82) p-Isopropyltoluene	13.706	119	233504	17.625	ug/l	99
83) 1,3-Dichlorobenzene	13.711	146	128165	19.103	ug/l	100
84) 1,4-Dichlorobenzene	13.794	146	131673	19.379	ug/l	97
85) n-Butylbenzene	14.035	91	228661	18.110	ug/l	99
86) Hexachloroethane	14.311	117	46023	18.143	ug/l	100
87) 1,2-Dichlorobenzene	14.082	146	124546	19.667	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.694	75	22398	19.232	ug/l	99
89) 1,2,4-Trichlorobenzene	15.811	180	66581	18.736	ug/l	98
90) Hexachlorobutadiene	15.470	225	24063	17.436	ug/l	97
91) Naphthalene	15.611	128	238883	18.578	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	66581	18.736	ug/l	98

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

