

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
 Data File : VN088046.D
 Acq On : 08 Oct 2025 17:05
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

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

Quant Time: Oct 09 02:59:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 09 02:36:32 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.794	128	65178	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	361179	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	319523	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	151228	29.797	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.333%		
60) 4-Bromofluorobenzene	12.829	95	158448	30.080	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.267%		
63) Toluene-d8	10.547	98	432175	30.358	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.200%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	64833	17.367	ug/l	92
3) Chloromethane	2.383	50	69677	16.463	ug/l	99
4) Vinyl Chloride	2.536	62	72184	16.356	ug/l	96
5) Bromomethane	2.977	94	36798	15.506	ug/l	89
6) Chloroethane	3.136	64	47732	16.396	ug/l	98
7) Trichlorofluoromethane	3.512	101	104706	17.447	ug/l	95
8) Diethyl Ether	3.959	74	44730	16.496	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.371	101	53638	16.696	ug/l	86
10) 1,1-Dichloroethene	4.336	96	58700	17.129	ug/l	98
11) Methyl Iodide	4.577	142	40764	12.906	ug/l	98
12) Methyl Acetate	5.024	43	93546	16.791	ug/l #	86
13) Acrolein	4.177	56	87902	101.957	ug/l #	13
14) Acrylonitrile	5.706	53	221505	82.387	ug/l	99
15) Acetone	4.424	58	57801	73.410	ug/l	85
16) Carbon Disulfide	4.706	76	179875	16.744	ug/l	97
17) Allyl chloride	5.006	41	103236	15.965	ug/l	98
18) Methylene Chloride	5.259	84	71982	16.526	ug/l	94
19) trans-1,2-Dichloroethene	5.777	96	67171	16.953	ug/l	95
20) Diisopropyl ether	6.659	45	246350	16.733	ug/l	97
21) 1,1-Dichloroethane	6.547	63	126048	16.447	ug/l	94
22) cis-1,2-Dichloroethene	7.465	96	81766	16.485	ug/l	100
23) tert-Butyl Alcohol	5.524	59	85448	79.244	ug/l #	100
24) Methyl tert-Butyl Ether	5.788	73	244379	16.521	ug/l	100
25) Chloroform	7.953	83	130562	16.508	ug/l	98
26) Cyclohexane	8.241	56	105997	16.693	ug/l #	97
29) 1,1-Dichloropropene	8.353	75	88476	17.090	ug/l	98
30) 2-Butanone	7.471	43	313336	82.062	ug/l	98
31) 2,2-Dichloropropane	7.476	77	106776	16.007	ug/l	99
32) 1,1,1-Trichloroethane	8.153	97	108875	16.830	ug/l	99
33) Carbon Tetrachloride	8.347	117	92423	17.057	ug/l	98
34) Benzene	8.588	78	286263	16.670	ug/l	97
35) Methacrylonitrile	7.765	41	63622	15.845	ug/l	96
36) 1,2-Dichloroethane	8.653	62	103649	17.386	ug/l	99
37) Trichloroethene	9.329	130	67064	16.484	ug/l	96
38) Methylcyclohexane	9.576	83	107543	16.821	ug/l	99
39) 1,2-Dichloropropane	9.600	63	73137	16.986	ug/l	99
40) Dibromomethane	9.688	93	52969	16.900	ug/l	93
41) Bromodichloromethane	9.870	83	106339	16.612	ug/l	96
42) Vinyl Acetate	6.588	43	1154807	88.778	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	118900	16.199	ug/l	95
44) Isopropyl Acetate	8.671	43	200918	16.760	ug/l	97
45) 1,4-Dioxane	9.682	88	24334	305.197	ug/l	90
46) Methyl methacrylate	9.665	41	89970	17.042	ug/l	97
47) n-amyl Acetate	12.676	43	98308m	17.301	ug/l	
48) t-1,3-Dichloropropene	10.817	75	115827	16.272	ug/l	99
49) cis-1,3-Dichloropropene	10.294	75	121675	16.387	ug/l	95
50) 1,1,2-Trichloroethane	10.994	97	68090	16.405	ug/l	96
51) Ethyl methacrylate	10.853	69	116337	16.562	ug/l	100
52) 1,3-Dichloropropane	11.141	76	121916	16.836	ug/l	100
53) Dibromochloromethane	11.335	129	81001	16.324	ug/l	99
54) 1,2-Dibromoethane	11.447	107	73659	16.599	ug/l	98
55) 2-Chloroethyl vinyl ether	10.141	63	329203	86.824	ug/l	99
56) Bromoform	12.559	173	51542	15.364	ug/l	98
58) 4-Methyl-2-Pentanone	10.423	43	617990	86.469	ug/l	98
59) 2-Hexanone	11.176	43	385288	81.651	ug/l	99
61) Tetrachloroethene	11.082	164	52428	16.203	ug/l	90
62) Toluene	10.606	91	311043	17.162	ug/l	100
64) Chlorobenzene	11.870	112	194013	16.759	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.935	131	68145	17.081	ug/l	97
66) Ethyl Benzene	11.941	91	339517	17.227	ug/l	100
67) m/p-Xylenes	12.047	106	256866	33.809	ug/l	97
68) o-Xylene	12.376	106	130038	17.193	ug/l	98
69) Styrene	12.394	104	210164	16.798	ug/l	99
70) Isopropylbenzene	12.670	105	314132	16.946	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.917	83	107306	17.074	ug/l	100
72) 1,2,3-Trichloropropane	12.976	75	102078m	17.489	ug/l	
73) Bromobenzene	12.959	156	77153	17.029	ug/l	97
74) n-propylbenzene	13.011	91	375093	16.762	ug/l	99
75) 2-Chlorotoluene	13.100	91	229835	16.798	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	269573	17.120	ug/l	99
77) t-1,4-Dichloro-2-butene	12.717	75	33183	14.266	ug/l	90
78) 4-Chlorotoluene	13.200	91	228854	16.463	ug/l	99
79) tert-butylbenzene	13.411	119	237477	17.397	ug/l	99
80) 1,2,4-Trimethylbenzene	13.458	105	272014	17.256	ug/l	99
81) sec-Butylbenzene	13.594	105	331246	17.260	ug/l	99
82) p-Isopropyltoluene	13.706	119	274756	16.768	ug/l	99
83) 1,3-Dichlorobenzene	13.711	146	142344	16.698	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	150031	17.066	ug/l	99
85) n-Butylbenzene	14.035	91	256524	16.828	ug/l	99
86) Hexachloroethane	14.311	117	53517	16.304	ug/l	93
87) 1,2-Dichlorobenzene	14.082	146	141796	16.911	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.700	75	25457	17.637	ug/l	98
89) 1,2,4-Trichlorobenzene	15.811	180	81618	16.342	ug/l	99
90) Hexachlorobutadiene	15.470	225	27886	16.043	ug/l	99
91) Naphthalene	15.611	128	307366	16.810	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	81618	16.342	ug/l	99

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

