

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102025\
 Data File : VN088073.D
 Acq On : 20 Oct 2025 09:26
 Operator : JC\MD
 Sample : VN1020WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1020WBS01

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: Oct 21 05:35:16 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

10/21/2025
 Supervised By :Semsettin
 Yesilyurt

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

Internal Standards						
1) Bromochloromethane	7.800	128	62285	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	343376	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	304684	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	156635	32.296	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 107.667%	
60) 4-Bromofluorobenzene	12.829	95	152913	30.443	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 101.467%	
63) Toluene-d8	10.547	98	420133	30.949	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 103.167%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	77653	21.767	ug/l	92
3) Chloromethane	2.383	50	76792	18.986	ug/l	95
4) Vinyl Chloride	2.536	62	85262	20.217	ug/l	97
5) Bromomethane	2.983	94	50875	22.434	ug/l	98
6) Chloroethane	3.136	64	60988	21.923	ug/l	95
7) Trichlorofluoromethane	3.512	101	130211	22.705	ug/l	99
8) Diethyl Ether	3.959	74	49392	19.061	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.365	101	67557	22.006	ug/l	96
10) 1,1-Dichloroethene	4.342	96	68131	20.804	ug/l	95
11) Methyl Iodide	4.589	142	52620	17.434	ug/l	93
12) Methyl Acetate	5.018	43	116619	21.905	ug/l	93
13) Acrolein	4.183	56	59308	71.986	ug/l #	4
14) Acrylonitrile	5.706	53	254622	99.104	ug/l	100
15) Acetone	4.424	58	67752	90.045	ug/l	87
16) Carbon Disulfide	4.706	76	202681	19.743	ug/l	96
17) Allyl chloride	5.018	41	118111	19.113	ug/l	95
18) Methylene Chloride	5.265	84	79795	19.171	ug/l	96
19) trans-1,2-Dichloroethene	5.777	96	74543	19.687	ug/l	89
20) Diisopropyl ether	6.659	45	279278	19.851	ug/l	99
21) 1,1-Dichloroethane	6.553	63	147591	20.152	ug/l	97
22) cis-1,2-Dichloroethene	7.471	96	91891	19.387	ug/l	96
23) tert-Butyl Alcohol	5.518	59	95731	92.904	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	275566	19.494	ug/l #	78
25) Chloroform	7.947	83	150557	19.921	ug/l	97
26) Cyclohexane	8.241	56	125784	20.729	ug/l #	95
29) 1,1-Dichloropropene	8.353	75	104611	21.254	ug/l	97
30) 2-Butanone	7.471	43	362293	99.803	ug/l	98
31) 2,2-Dichloropropane	7.471	77	134132	21.150	ug/l	98
32) 1,1,1-Trichloroethane	8.147	97	130492	21.218	ug/l	98
33) Carbon Tetrachloride	8.341	117	110825	21.513	ug/l	98
34) Benzene	8.588	78	323530	19.817	ug/l	98
35) Methacrylonitrile	7.765	41	79995	20.956	ug/l	98
36) 1,2-Dichloroethane	8.653	62	120255	21.218	ug/l	97
37) Trichloroethene	9.329	130	75973	19.642	ug/l	97
38) Methylcyclohexane	9.577	83	126136	20.752	ug/l	96
39) 1,2-Dichloropropane	9.600	63	82623	20.184	ug/l	100
40) Dibromomethane	9.688	93	61481	20.633	ug/l	94
41) Bromodichloromethane	9.865	83	124256	20.418	ug/l	98
42) Vinyl Acetate	6.588	43	1170698	94.666	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102025\
 Data File : VN088073.D
 Acq On : 20 Oct 2025 09:26
 Operator : JC\MD
 Sample : VN1020WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1020WBS01

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: Oct 21 05:35:16 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

10/21/2025
 Supervised By :Semsettin
 Yesilyurt

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	139785	20.032	ug/l	98
44) Isopropyl Acetate	8.671	43	224369	19.686	ug/l	98
45) 1,4-Dioxane	9.677	88	29977	395.465	ug/l #	94
46) Methyl methacrylate	9.665	41	104697	20.859	ug/l	94
47) n-amyl Acetate	12.576	43	113335m	20.980	ug/l	
48) t-1,3-Dichloropropene	10.812	75	133458	19.721	ug/l	98
49) cis-1,3-Dichloropropene	10.288	75	135218	19.155	ug/l	92
50) 1,1,2-Trichloroethane	10.994	97	78759	19.959	ug/l	95
51) Ethyl methacrylate	10.859	69	129959	19.460	ug/l	98
52) 1,3-Dichloropropane	11.141	76	137735	20.006	ug/l	100
53) Dibromochloromethane	11.335	129	91345	19.363	ug/l	100
54) 1,2-Dibromoethane	11.447	107	80700	19.129	ug/l	100
55) 2-Chloroethyl vinyl ether	10.141	63	358393	99.423	ug/l	98
56) Bromoform	12.559	173	57617	18.065	ug/l	98
58) 4-Methyl-2-Pentanone	10.424	43	689865	101.227	ug/l	98
59) 2-Hexanone	11.176	43	439800	97.743	ug/l	98
61) Tetrachloroethene	11.082	164	59740	19.362	ug/l	95
62) Toluene	10.606	91	346319	20.038	ug/l	100
64) Chlorobenzene	11.871	112	216235	19.588	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.941	131	76374	20.076	ug/l	99
66) Ethyl Benzene	11.941	91	382033	20.329	ug/l	98
67) m/p-Xylenes	12.047	106	288899	39.877	ug/l	97
68) o-Xylene	12.376	106	139692	19.369	ug/l	96
69) Styrene	12.394	104	235197	19.714	ug/l	99
70) Isopropylbenzene	12.676	105	361962	20.478	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.918	83	120825	20.162	ug/l	99
72) 1,2,3-Trichloropropane	12.970	75	100533m	18.063	ug/l	
73) Bromobenzene	12.959	156	79169	18.325	ug/l	88
74) n-propylbenzene	13.012	91	445643	20.885	ug/l	97
75) 2-Chlorotoluene	13.106	91	263437	20.191	ug/l	97
76) 1,3,5-Trimethylbenzene	13.153	105	306719	20.428	ug/l	96
77) t-1,4-Dichloro-2-butene	12.718	75	40290	18.165	ug/l	95
78) 4-Chlorotoluene	13.200	91	266609	20.113	ug/l	98
79) tert-butylbenzene	13.417	119	268223	20.607	ug/l	96
80) 1,2,4-Trimethylbenzene	13.459	105	302874	20.150	ug/l	97
81) sec-Butylbenzene	13.594	105	391552	21.395	ug/l	97
82) p-Isopropyltoluene	13.706	119	329248	21.072	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	157162	19.334	ug/l	98
84) 1,4-Dichlorobenzene	13.794	146	163893	19.550	ug/l	99
85) n-Butylbenzene	14.035	91	316165	21.750	ug/l	97
86) Hexachloroethane	14.312	117	66588	21.274	ug/l	85
87) 1,2-Dichlorobenzene	14.088	146	152656	19.093	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.700	75	29509	21.440	ug/l	87
89) 1,2,4-Trichlorobenzene	15.811	180	87549	18.383	ug/l	98
90) Hexachlorobutadiene	15.470	225	33672	20.315	ug/l	95
91) Naphthalene	15.617	128	326635	18.734	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	87549	18.383	ug/l	98

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

