

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090925\
 Data File : VN087766.D
 Acq On : 09 Sep 2025 10:20
 Operator : JC\MD
 Sample : VN0909WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0909WBSD01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/10/2025
 Supervised By :Mahesh Dadoda 09/10/2025

Quant Time: Sep 10 02:28:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 05 03:29:53 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.788	128	51766	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	268313	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	245687	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	131699	29.783	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	99.267%	
60) 4-Bromofluorobenzene	12.823	95	117136	29.651	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	98.833%	
63) Toluene-d8	10.541	98	344543	30.155	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	100.500%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	64729	20.119	ug/l	99
3) Chloromethane	2.383	50	64167	18.999	ug/l	99
4) Vinyl Chloride	2.536	62	75403	19.750	ug/l	95
5) Bromomethane	2.989	94	42943	19.173	ug/l	93
6) Chloroethane	3.148	64	45456	17.421	ug/l #	86
7) Trichlorofluoromethane	3.512	101	109177	19.509	ug/l	96
8) Diethyl Ether	3.959	74	41341	17.494	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	60677	20.018	ug/l	79
10) 1,1-Dichloroethene	4.336	96	60433	19.338	ug/l	88
11) Methyl Iodide	4.589	142	42948	19.415	ug/l	84
12) Methyl Acetate	5.012	43	88410	18.352	ug/l	96
13) Acrolein	4.177	56	69187m	80.664	ug/l	
14) Acrylonitrile	5.706	53	181848	87.700	ug/l	96
15) Acetone	4.424	58	58634	90.645	ug/l	95
16) Carbon Disulfide	4.706	76	163326	19.035	ug/l #	93
17) Allyl chloride	5.006	41	93026	18.225	ug/l	86
18) Methylene Chloride	5.265	84	62285	17.595	ug/l	94
19) trans-1,2-Dichloroethene	5.771	96	58636	18.397	ug/l	99
20) Diisopropyl ether	6.659	45	199214	16.972	ug/l #	96
21) 1,1-Dichloroethane	6.547	63	118539	18.442	ug/l	99
22) cis-1,2-Dichloroethene	7.465	96	71189	18.402	ug/l	97
23) tert-Butyl Alcohol	5.512	59	59068	80.586	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	202818	18.179	ug/l	95
25) Chloroform	7.947	83	121930	18.122	ug/l	99
26) Cyclohexane	8.235	56	94264	19.257	ug/l #	100
29) 1,1-Dichloropropene	8.359	75	81115	18.602	ug/l	97
30) 2-Butanone	7.471	43	259945	86.537	ug/l	97
31) 2,2-Dichloropropane	7.477	77	101051	19.224	ug/l	99
32) 1,1,1-Trichloroethane	8.147	97	105653	19.111	ug/l	98
33) Carbon Tetrachloride	8.347	117	86752	18.820	ug/l	96
34) Benzene	8.588	78	254322	18.046	ug/l	92
35) Methacrylonitrile	7.765	41	56470	17.973	ug/l	98
36) 1,2-Dichloroethane	8.653	62	96235	18.078	ug/l	99
37) Trichloroethene	9.335	130	60184	19.104	ug/l	95
38) Methylcyclohexane	9.582	83	92215	19.206	ug/l	99
39) 1,2-Dichloropropane	9.600	63	65757	18.218	ug/l	92
40) Dibromomethane	9.688	93	47457	17.667	ug/l	98
41) Bromodichloromethane	9.865	83	97614	17.780	ug/l	98
42) Vinyl Acetate	6.588	43	889594	88.636	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.541	43	110645	18.028	ug/l	99
44) Isopropyl Acetate	8.671	43	174555	18.143	ug/l	98
45) 1,4-Dioxane	9.677	88	19123	315.174	ug/l	98
46) Methyl methacrylate	9.659	41	77651	17.510	ug/l	99
47) n-amyl Acetate	12.529	43	123878m	19.053	ug/l	
48) t-1,3-Dichloropropene	10.818	75	100171	17.567	ug/l	99
49) cis-1,3-Dichloropropene	10.288	75	106538	18.241	ug/l	95
50) 1,1,2-Trichloroethane	10.994	97	63695	18.359	ug/l	90
51) Ethyl methacrylate	10.853	69	89781	16.628	ug/l	93
52) 1,3-Dichloropropane	11.141	76	108258	17.969	ug/l	100
53) Dibromochloromethane	11.335	129	70386	18.094	ug/l	94
54) 1,2-Dibromoethane	11.447	107	66000	18.282	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	268977	86.946	ug/l	99
56) Bromoform	12.559	173	42273	16.640	ug/l	98
58) 4-Methyl-2-Pentanone	10.424	43	531748	91.535	ug/l	99
59) 2-Hexanone	11.176	43	336907	88.753	ug/l	99
61) Tetrachloroethene	11.082	164	47359	19.361	ug/l	95
62) Toluene	10.606	91	273478	18.402	ug/l	99
64) Chlorobenzene	11.870	112	167498	18.364	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.935	131	59496	18.527	ug/l	95
66) Ethyl Benzene	11.941	91	295535	18.433	ug/l	96
67) m/p-Xylenes	12.047	106	222821	37.440	ug/l	95
68) o-Xylene	12.376	106	103447	17.927	ug/l	92
69) Styrene	12.388	104	174166	17.366	ug/l	98
70) Isopropylbenzene	12.670	105	276966	18.930	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.917	83	97832	18.599	ug/l	99
72) 1,2,3-Trichloropropane	12.970	75	100619m	19.482	ug/l	
73) Bromobenzene	12.959	156	64542	18.030	ug/l	96
74) n-propylbenzene	13.012	91	350861	19.005	ug/l	99
75) 2-Chlorotoluene	13.100	91	202618	18.236	ug/l	96
76) 1,3,5-Trimethylbenzene	13.147	105	235895	19.092	ug/l	99
77) t-1,4-Dichloro-2-butene	12.712	75	31878	18.287	ug/l	94
78) 4-Chlorotoluene	13.200	91	210726	18.812	ug/l	98
79) tert-butylbenzene	13.412	119	201723	19.495	ug/l	97
80) 1,2,4-Trimethylbenzene	13.459	105	237570	18.755	ug/l	99
81) sec-Butylbenzene	13.594	105	302627	19.884	ug/l	99
82) p-Isopropyltoluene	13.706	119	246675	19.671	ug/l	96
83) 1,3-Dichlorobenzene	13.712	146	129435	18.755	ug/l	98
84) 1,4-Dichlorobenzene	13.788	146	130400	18.851	ug/l	100
85) n-Butylbenzene	14.035	91	244479	20.282	ug/l	99
86) Hexachloroethane	14.306	117	48957	19.220	ug/l	97
87) 1,2-Dichlorobenzene	14.082	146	123458	18.968	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.694	75	22211	19.028	ug/l	98
89) 1,2,4-Trichlorobenzene	15.811	180	67194	18.150	ug/l	97
90) Hexachlorobutadiene	15.470	225	27278	21.979	ug/l	92
91) Naphthalene	15.611	128	243183	17.843	ug/l	100
92) 1,2,3-Trichlorobenzene	15.811	180	67194	18.150	ug/l	97

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

