

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062525\
 Data File : VN087168.D
 Acq On : 25 Jun 2025 11:08
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN062525

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: Jun 25 15:29:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 25 10:49:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.829	128	35075	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	195745	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	185221	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	78569	29.730	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.100%
60) 4-Bromofluorobenzene	12.847	95	87563	30.636	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	102.133%
63) Toluene-d8	10.565	98	253524	30.485	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.153	85	39936	18.915	ug/l	89
3) Chloromethane	2.400	50	40578	18.816	ug/l	95
4) Vinyl Chloride	2.553	62	40792	17.404	ug/l	99
5) Bromomethane	3.000	94	25492	20.494	ug/l	97
6) Chloroethane	3.153	64	24041	19.122	ug/l	99
7) Trichlorofluoromethane	3.530	101	54078	18.810	ug/l	100
8) Diethyl Ether	3.989	74	27463	19.443	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.400	101	40891	19.184	ug/l #	88
10) 1,1-Dichloroethene	4.365	96	40670	19.141	ug/l	89
11) Methyl Iodide	4.612	142	29562	15.530	ug/l	94
12) Methyl Acetate	5.047	43	65886	19.769	ug/l	96
13) Acrolein	4.206	56	54597	106.612	ug/l	100
14) Acrylonitrile	5.741	53	153387	98.671	ug/l	99
15) Acetone	4.447	58	44493	98.119	ug/l	89
16) Carbon Disulfide	4.741	76	116947	18.825	ug/l	98
17) Allyl chloride	5.053	41	64340	18.360	ug/l	93
18) Methylene Chloride	5.306	84	46095	18.727	ug/l	97
19) trans-1,2-Dichloroethene	5.812	96	44162	19.006	ug/l	97
20) Diisopropyl ether	6.688	45	142767	19.202	ug/l	99
21) 1,1-Dichloroethane	6.588	63	77314	17.398	ug/l	99
22) cis-1,2-Dichloroethene	7.494	96	51043	18.875	ug/l	97
23) tert-Butyl Alcohol	5.536	59	60387	103.292	ug/l #	100
24) Methyl tert-Butyl Ether	5.812	73	144916	19.447	ug/l	99
25) Chloroform	7.977	83	75565	17.750	ug/l	99
26) Cyclohexane	8.271	56	64739	17.527	ug/l #	99
29) 1,1-Dichloropropene	8.382	75	56214	18.425	ug/l	98
30) 2-Butanone	7.494	43	198883	96.637	ug/l	99
31) 2,2-Dichloropropane	7.500	77	71663	19.459	ug/l	97
32) 1,1,1-Trichloroethane	8.177	97	63831	17.908	ug/l	98
33) Carbon Tetrachloride	8.371	117	54332	18.113	ug/l	99
34) Benzene	8.612	78	167939	17.375	ug/l	99
35) Methacrylonitrile	7.782	41	36192	17.450	ug/l	96
36) 1,2-Dichloroethane	8.676	62	58192	18.634	ug/l	99
37) Trichloroethene	9.353	130	44053	19.760	ug/l	93
38) Methylcyclohexane	9.606	83	67623	19.317	ug/l	99
39) 1,2-Dichloropropane	9.623	63	47099	19.414	ug/l	99
40) Dibromomethane	9.712	93	31445	19.062	ug/l	98
41) Bromodichloromethane	9.894	83	65145	19.565	ug/l	96
42) Vinyl Acetate	6.618	43	564048	84.264	ug/l	97

06/25/2025
 Supervised By :Mahesh
 adoda

06/26/2025

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	76982	20.721	ug/l	98
44) Isopropyl Acetate	8.694	43	113470	18.746	ug/l	100
45) 1,4-Dioxane	9.700	88	17828	435.392	ug/l	98
46) Methyl methacrylate	9.682	41	53380	18.970	ug/l	96
47) n-amyl Acetate	12.541	43	61525m	16.625	ug/l	
48) t-1,3-Dichloropropene	10.835	75	72502	19.532	ug/l	96
49) cis-1,3-Dichloropropene	10.312	75	76780	19.457	ug/l	97
50) 1,1,2-Trichloroethane	11.018	97	44707	19.079	ug/l	96
51) Ethyl methacrylate	10.882	69	66937	18.768	ug/l	96
52) 1,3-Dichloropropane	11.165	76	76546	19.027	ug/l	99
53) Dibromochloromethane	11.359	129	47380	19.262	ug/l	97
54) 1,2-Dibromoethane	11.470	107	45103	18.656	ug/l	97
55) 2-Chloroethyl vinyl ether	10.165	63	184630	90.312	ug/l	99
56) Bromoform	12.576	173	31131	18.410	ug/l	98
58) 4-Methyl-2-Pentanone	10.447	43	364138	97.791	ug/l	99
59) 2-Hexanone	11.206	43	209381	87.081	ug/l	97
61) Tetrachloroethene	11.106	164	33844	18.451	ug/l	95
62) Toluene	10.629	91	196885	18.821	ug/l	97
64) Chlorobenzene	11.894	112	126668	18.982	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	41822	18.969	ug/l	98
66) Ethyl Benzene	11.965	91	211991	18.514	ug/l	100
67) m/p-Xylenes	12.070	106	164422	37.473	ug/l	99
68) o-Xylene	12.394	106	80694	19.277	ug/l	97
69) Styrene	12.412	104	133644	18.596	ug/l	100
70) Isopropylbenzene	12.694	105	203011	19.473	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	72297	19.266	ug/l	97
72) 1,2,3-Trichloropropane	12.988	75	63592m	19.651	ug/l	
73) Bromobenzene	12.982	156	47294	18.701	ug/l	99
74) n-propylbenzene	13.035	91	247990	19.471	ug/l	99
75) 2-Chlorotoluene	13.123	91	150115	19.509	ug/l	98
76) 1,3,5-Trimethylbenzene	13.170	105	166512	19.619	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	27150	18.914	ug/l	98
78) 4-Chlorotoluene	13.223	91	155736	19.761	ug/l	100
79) tert-butylbenzene	13.435	119	139520	19.556	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	166385	19.523	ug/l	98
81) sec-Butylbenzene	13.611	105	209004	20.153	ug/l	100
82) p-Isopropyltoluene	13.729	119	172978	20.042	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	94477	19.400	ug/l	100
84) 1,4-Dichlorobenzene	13.811	146	96182	19.624	ug/l	100
85) n-Butylbenzene	14.053	91	162667	20.658	ug/l	99
86) Hexachloroethane	14.335	117	30688	18.784	ug/l	95
87) 1,2-Dichlorobenzene	14.106	146	89313	19.450	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	16536	19.570	ug/l	95
89) 1,2,4-Trichlorobenzene	15.841	180	50315	19.367	ug/l	97
90) Hexachlorobutadiene	15.494	225	17346	22.501	ug/l	96
91) Naphthalene	15.635	128	193989	18.973	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	50315	19.367	ug/l	97

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

