

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092225\
 Data File : VN087919.D
 Acq On : 22 Sep 2025 14:06
 Operator : JC\MD
 Sample : Q3149-04MSD
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 002 35th Ave(Aug)MSD

Quant Time: Sep 23 04:53:13 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

Manual Integrations
 APPROVED

Reviewed By :John Carlone 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

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

Internal Standards						
1) Bromochloromethane	7.800	128	49089	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	234680	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	222486	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	112554	26.841	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	89.467%#		
60) 4-Bromofluorobenzene	12.829	95	109547	30.622	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	102.067%		
63) Toluene-d8	10.541	98	302315	29.218	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.400%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.148	85	41532	13.613	ug/l	93
3) Chloromethane	2.389	50	38621	12.059	ug/l	94
4) Vinyl Chloride	2.542	62	39894	11.019	ug/l	96
5) Bromomethane	2.983	94	25904	12.196	ug/l	90
6) Chloroethane	3.142	64	26688	10.786	ug/l #	84
7) Trichlorofluoromethane	3.512	101	70588	13.302	ug/l	93
8) Diethyl Ether	3.965	74	25571	11.411	ug/l	89
9) 1,1,2-Trichlorotrifluo...	4.371	101	37756m	13.135	ug/l	
10) 1,1-Dichloroethene	4.342	96	35600	12.013	ug/l #	83
11) Methyl Iodide	4.571	142	26037m	12.412	ug/l	
12) Methyl Acetate	5.018	43	64956	14.219	ug/l	98
13) Acrolein	4.183	56	62742	77.139	ug/l #	38
14) Acrylonitrile	5.706	53	138107	70.237	ug/l	99
15) Acetone	4.430	58	37257	60.738	ug/l	95
16) Carbon Disulfide	4.701	76	98202	12.069	ug/l #	94
17) Allyl chloride	5.018	41	56845	11.744	ug/l	97
18) Methylene Chloride	5.265	84	51105	15.224	ug/l #	83
19) trans-1,2-Dichloroethene	5.771	96	43279	14.320	ug/l #	84
20) Diisopropyl ether	6.665	45	143540	12.896	ug/l #	94
21) 1,1-Dichloroethane	6.553	63	87054	14.282	ug/l #	96
22) cis-1,2-Dichloroethene	7.465	96	54115	14.751	ug/l	95
23) tert-Butyl Alcohol	5.524	59	46759	67.271	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	146026	13.802	ug/l	98
25) Chloroform	7.947	83	102771	16.107	ug/l	96
26) Cyclohexane	8.241	56	52696	11.352	ug/l #	90
29) 1,1-Dichloropropene	8.359	75	55408	14.528	ug/l	96
30) 2-Butanone	7.471	43	188301	71.670	ug/l #	96
31) 2,2-Dichloropropane	7.477	77	78749	17.128	ug/l	100
32) 1,1,1-Trichloroethane	8.153	97	78202	16.173	ug/l	96
33) Carbon Tetrachloride	8.341	117	68548	17.002	ug/l	97
34) Benzene	8.588	78	184737	14.987	ug/l	94
35) Methacrylonitrile	7.765	41	38693	14.080	ug/l	94
36) 1,2-Dichloroethane	8.653	62	71833	15.428	ug/l	99
37) Trichloroethene	9.336	130	44303	16.078	ug/l	98
38) Methylcyclohexane	9.583	83	56231	13.390	ug/l	97
39) 1,2-Dichloropropane	9.600	63	48998	15.520	ug/l	100
40) Dibromomethane	9.688	93	39182	16.677	ug/l	95
41) Bromodichloromethane	9.871	83	79337	16.521	ug/l	96
42) Vinyl Acetate	6.595	43	593098	67.563	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	78679m	14.657	ug/l	
44) Isopropyl Acetate	8.677	43	117847	14.004	ug/l	99
45) 1,4-Dioxane	9.677	88	16037	302.192	ug/l #	77
46) Methyl methacrylate	9.659	41	43552	11.228	ug/l	97
47) n-amyl Acetate	13.106	43	76080m	13.378	ug/l	
48) t-1,3-Dichloropropene	10.818	75	73628	14.763	ug/l	94
49) cis-1,3-Dichloropropene	10.288	75	72736	14.238	ug/l	95
50) 1,1,2-Trichloroethane	10.994	97	51580	16.998	ug/l	91
51) Ethyl methacrylate	10.853	69	64990	13.762	ug/l	93
52) 1,3-Dichloropropane	11.141	76	82656	15.686	ug/l	98
53) Dibromochloromethane	11.335	129	65135	19.144	ug/l	88
54) 1,2-Dibromoethane	11.447	107	53693	17.005	ug/l	94
56) Bromoform	12.559	173	40819	18.371	ug/l #	99
58) 4-Methyl-2-Pentanone	10.424	43	394234	74.940	ug/l	99
59) 2-Hexanone	11.177	43	238264	69.313	ug/l	99
61) Tetrachloroethene	11.077	164	37491	16.925	ug/l #	81
62) Toluene	10.612	91	207666	15.431	ug/l	97
64) Chlorobenzene	11.871	112	130128	15.754	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.941	131	51744	17.794	ug/l	95
66) Ethyl Benzene	11.941	91	211654	14.578	ug/l	96
67) m/p-Xylenes	12.047	106	165797	30.763	ug/l	88
68) o-Xylene	12.376	106	78025	14.932	ug/l	98
69) Styrene	12.388	104	132779	14.620	ug/l	99
70) Isopropylbenzene	12.676	105	196014	14.794	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.918	83	79263	16.641	ug/l	97
72) 1,2,3-Trichloropropane	12.965	75	72518m	15.505	ug/l	
73) Bromobenzene	12.959	156	53348	16.457	ug/l	89
74) n-propylbenzene	13.012	91	253316	15.153	ug/l	97
75) 2-Chlorotoluene	13.100	91	154299	15.335	ug/l	94
76) 1,3,5-Trimethylbenzene	13.153	105	178977	15.996	ug/l	99
77) t-1,4-Dichloro-2-butene	12.718	75	21893	13.869	ug/l	93
78) 4-Chlorotoluene	13.200	91	162779	16.047	ug/l	99
79) tert-butylbenzene	13.412	119	147283	15.718	ug/l	93
80) 1,2,4-Trimethylbenzene	13.459	105	176316	15.370	ug/l	98
81) sec-Butylbenzene	13.594	105	218528	15.855	ug/l	96
82) p-Isopropyltoluene	13.706	119	177819	15.659	ug/l	97
83) 1,3-Dichlorobenzene	13.712	146	109881	17.582	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	109035	17.406	ug/l	99
85) n-Butylbenzene	14.035	91	166538	15.257	ug/l	98
86) Hexachloroethane	14.306	117	38405	16.650	ug/l	93
87) 1,2-Dichlorobenzene	14.082	146	103222	17.512	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.694	75	16634	15.736	ug/l #	88
89) 1,2,4-Trichlorobenzene	15.812	180	60263	17.976	ug/l	97
90) Hexachlorobutadiene	15.470	225	24412	21.721	ug/l	94
91) Naphthalene	15.612	128	189268	15.335	ug/l	99
92) 1,2,3-Trichlorobenzene	15.812	180	60263	17.976	ug/l	97

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

