

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091725\
 Data File : VN087879.D
 Acq On : 17 Sep 2025 14:57
 Operator : JC\MD
 Sample : Q3098-02MS 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WWMS

Quant Time: Sep 18 03:11:52 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 09/18/2025
 Supervised By : Mahesh Dadoda 09/18/2025

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

Internal Standards						
1) Bromochloromethane	7.800	128	45524	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	232070	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	208954	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	109286	28.103	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	93.667%		
60) 4-Bromofluorobenzene	12.829	95	103494	30.803	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	102.667%		
63) Toluene-d8	10.547	98	283186	29.142	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.133%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	49851	17.619	ug/l	89
3) Chloromethane	2.383	50	42876	14.436	ug/l	98
4) Vinyl Chloride	2.542	62	46783	13.934	ug/l	98
5) Bromomethane	2.977	94	26003	13.202	ug/l	94
6) Chloroethane	3.142	64	30409	13.252	ug/l #	83
7) Trichlorofluoromethane	3.512	101	78800	16.012	ug/l	96
8) Diethyl Ether	3.959	74	29114	14.009	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.359	101	41601	15.606	ug/l	83
10) 1,1-Dichloroethene	4.336	96	38556	14.029	ug/l	92
11) Methyl Iodide	4.589	142	20026m	10.294	ug/l	
12) Methyl Acetate	5.024	43	80079	18.902	ug/l	97
13) Acrolein	4.177	56	85844m	113.807	ug/l	
14) Acrylonitrile	5.712	53	163090	89.438	ug/l	99
15) Acetone	4.424	58	85921	151.042	ug/l	89
16) Carbon Disulfide	4.700	76	104762	13.884	ug/l #	88
17) Allyl chloride	5.018	41	63947	14.246	ug/l	88
18) Methylene Chloride	5.259	84	52838	16.973	ug/l	96
19) trans-1,2-Dichloroethene	5.771	96	48097	17.160	ug/l	95
20) Diisopropyl ether	6.659	45	165607	16.043	ug/l #	95
21) 1,1-Dichloroethane	6.559	63	93255	16.497	ug/l #	91
22) cis-1,2-Dichloroethene	7.477	96	58302	17.137	ug/l	97
23) tert-Butyl Alcohol	5.530	59	69357	107.597	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	163958	16.711	ug/l	99
25) Chloroform	7.947	83	130054	21.980	ug/l	98
26) Cyclohexane	8.235	56	64088	14.887	ug/l #	97
29) 1,1-Dichloropropene	8.353	75	62401	16.545	ug/l	97
30) 2-Butanone	7.471	43	241803	93.069	ug/l	99
31) 2,2-Dichloropropane	7.477	77	76087	16.735	ug/l	96
32) 1,1,1-Trichloroethane	8.153	97	85149	17.808	ug/l	97
33) Carbon Tetrachloride	8.347	117	69494	17.431	ug/l	98
34) Benzene	8.588	78	202328	16.599	ug/l	96
35) Methacrylonitrile	7.765	41	47337	17.419	ug/l	92
36) 1,2-Dichloroethane	8.653	62	78195	16.983	ug/l	100
37) Trichloroethene	9.335	130	47588	17.465	ug/l	99
38) Methylcyclohexane	9.582	83	59332	14.287	ug/l	99
39) 1,2-Dichloropropane	9.600	63	53304	17.074	ug/l	97
40) Dibromomethane	9.688	93	40244	17.322	ug/l	95
41) Bromodichloromethane	9.871	83	84373	17.768	ug/l	92
42) Vinyl Acetate	6.594	43	677278	78.020	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	83583	15.746	ug/l #	81
44) Isopropyl Acetate	8.677	43	139543	16.769	ug/l #	83
45) 1,4-Dioxane	9.682	88	21989	419.008	ug/l	90
46) Methyl methacrylate	9.665	41	59773	15.583	ug/l	97
47) n-amyl Acetate	12.576	43	97534m	17.344	ug/l	
48) t-1,3-Dichloropropene	10.818	75	78360	15.888	ug/l	92
49) cis-1,3-Dichloropropene	10.294	75	77884	15.418	ug/l	96
50) 1,1,2-Trichloroethane	10.994	97	53970	17.985	ug/l	94
51) Ethyl methacrylate	10.859	69	70558	15.109	ug/l	96
52) 1,3-Dichloropropane	11.141	76	87531	16.798	ug/l	99
53) Dibromochloromethane	11.335	129	62518	18.581	ug/l	92
54) 1,2-Dibromoethane	11.447	107	55705	17.840	ug/l	98
56) Bromoform	12.553	173	40163	18.279	ug/l	95
58) 4-Methyl-2-Pentanone	10.424	43	452617	91.610	ug/l	99
59) 2-Hexanone	11.176	43	279671	86.627	ug/l	96
61) Tetrachloroethene	11.082	164	40268	19.356	ug/l	86
62) Toluene	10.612	91	220515	17.447	ug/l	100
64) Chlorobenzene	11.870	112	137611	17.739	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.941	131	51649	18.911	ug/l	96
66) Ethyl Benzene	11.941	91	225613	16.546	ug/l	93
67) m/p-Xylenes	12.047	106	173887	34.354	ug/l	93
68) o-Xylene	12.376	106	84953	17.310	ug/l	99
69) Styrene	12.388	104	142012	16.649	ug/l	99
70) Isopropylbenzene	12.676	105	213028	17.119	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.917	83	84382	18.862	ug/l	99
72) 1,2,3-Trichloropropane	12.970	75	82331m	18.744	ug/l	
73) Bromobenzene	12.959	156	57127	18.764	ug/l	90
74) n-propylbenzene	13.012	91	255916	16.299	ug/l	99
75) 2-Chlorotoluene	13.100	91	158031	16.723	ug/l	94
76) 1,3,5-Trimethylbenzene	13.147	105	171519	16.322	ug/l	95
77) t-1,4-Dichloro-2-butene	12.717	75	25675	17.318	ug/l	86
78) 4-Chlorotoluene	13.200	91	160921	16.891	ug/l	99
79) tert-butylbenzene	13.412	119	143062	16.256	ug/l	96
80) 1,2,4-Trimethylbenzene	13.459	105	174202	16.170	ug/l	98
81) sec-Butylbenzene	13.594	105	205366	15.865	ug/l	98
82) p-Isopropyltoluene	13.706	119	171685	16.098	ug/l	97
83) 1,3-Dichlorobenzene	13.712	146	104954	17.881	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	108302	18.408	ug/l	96
85) n-Butylbenzene	14.035	91	162115	15.813	ug/l	98
86) Hexachloroethane	14.306	117	34341	15.852	ug/l	91
87) 1,2-Dichlorobenzene	14.082	146	105462	19.051	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.694	75	19722	19.866	ug/l #	84
89) 1,2,4-Trichlorobenzene	15.811	180	53730	17.065	ug/l	90
90) Hexachlorobutadiene	15.476	225	22695	21.501	ug/l	93
91) Naphthalene	15.617	128	216085	18.642	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	53730	17.065	ug/l	90

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

