

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091725\
 Data File : VN087880.D
 Acq On : 17 Sep 2025 15:18
 Operator : JC\MD
 Sample : Q3098-03MSD 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WWMSD

Quant Time: Sep 18 03:12:45 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

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

Internal Standards						
1) Bromochloromethane	7.794	128	50263	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	267467	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	245997	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	120981	28.177	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	93.933%
60) 4-Bromofluorobenzene	12.829	95	114284	28.893	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	96.300%
63) Toluene-d8	10.547	98	329637	28.814	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.033%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	66326	21.232	ug/l	94
3) Chloromethane	2.383	50	56310	17.171	ug/l	99
4) Vinyl Chloride	2.536	62	61380	16.558	ug/l	95
5) Bromomethane	2.977	94	34052	15.658	ug/l	96
6) Chloroethane	3.142	64	39849	15.728	ug/l #	80
7) Trichlorofluoromethane	3.506	101	102393	18.844	ug/l	92
8) Diethyl Ether	3.959	74	34136	14.877	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.365	101	56001	19.028	ug/l	95
10) 1,1-Dichloroethene	4.336	96	54898	18.092	ug/l	87
11) Methyl Iodide	4.583	142	30213	14.066	ug/l	88
12) Methyl Acetate	5.012	43	99186	21.205	ug/l #	90
13) Acrolein	4.171	56	111733	134.163	ug/l #	41
14) Acrylonitrile	5.712	53	202752	100.705	ug/l	98
15) Acetone	4.430	58	97606	155.406	ug/l	94
16) Carbon Disulfide	4.706	76	140289	16.839	ug/l #	96
17) Allyl chloride	5.012	41	91975	18.558	ug/l	88
18) Methylene Chloride	5.259	84	66990	19.490	ug/l	88
19) trans-1,2-Dichloroethene	5.783	96	60582	19.576	ug/l	97
20) Diisopropyl ether	6.653	45	209067	18.344	ug/l	95
21) 1,1-Dichloroethane	6.553	63	123424	19.776	ug/l	98
22) cis-1,2-Dichloroethene	7.471	96	74188	19.750	ug/l	99
23) tert-Butyl Alcohol	5.530	59	82861	116.426	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	213911	19.746	ug/l	99
25) Chloroform	7.947	83	161620	24.739	ug/l	99
26) Cyclohexane	8.241	56	82218	17.298	ug/l #	91
29) 1,1-Dichloropropene	8.353	75	81418	18.730	ug/l	97
30) 2-Butanone	7.471	43	295870	98.808	ug/l	99
31) 2,2-Dichloropropane	7.471	77	99599	19.008	ug/l #	78
32) 1,1,1-Trichloroethane	8.153	97	112002	20.324	ug/l	97
33) Carbon Tetrachloride	8.341	117	92270	20.081	ug/l	98
34) Benzene	8.588	78	266187	18.948	ug/l	95
35) Methacrylonitrile	7.765	41	56022	17.886	ug/l	88
36) 1,2-Dichloroethane	8.653	62	96944	18.269	ug/l	100
37) Trichloroethene	9.335	130	63051	20.077	ug/l	82
38) Methylcyclohexane	9.583	83	79652	16.642	ug/l	98
39) 1,2-Dichloropropane	9.600	63	66454	18.469	ug/l	92
40) Dibromomethane	9.694	93	52797	19.717	ug/l	97
41) Bromodichloromethane	9.865	83	107603	19.661	ug/l	100
42) Vinyl Acetate	6.589	43	874343	87.392	ug/l	97

09/18/2025
 Supervised By :Mahesh
 Radoda

09/18/2025

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	7.553	43	114160	18.660	ug/l	98	09/18/2025
44) Isopropyl Acetate	8.677	43	174190	18.162	ug/l	99	Supervised By :Mahesh
45) 1,4-Dioxane	9.683	88	25610	423.424	ug/l	94	Dadoda
46) Methyl methacrylate	9.665	41	82205	18.595	ug/l	99	
47) n-amyl Acetate	12.565	43	111257m	17.166	ug/l		
48) t-1,3-Dichloropropene	10.818	75	101642	17.881	ug/l	94	
49) cis-1,3-Dichloropropene	10.294	75	104063	17.874	ug/l #	87	09/18/2025
50) 1,1,2-Trichloroethane	10.994	97	69888	20.208	ug/l #	91	
51) Ethyl methacrylate	10.859	69	97913	18.191	ug/l	97	
52) 1,3-Dichloropropane	11.141	76	116949	19.473	ug/l	99	
53) Dibromochloromethane	11.335	129	76633	19.762	ug/l	90	
54) 1,2-Dibromoethane	11.447	107	71008	19.731	ug/l	100	
56) Bromoform	12.559	173	50459	19.925	ug/l	98	
58) 4-Methyl-2-Pentanone	10.424	43	570180	98.027	ug/l	98	
59) 2-Hexanone	11.177	43	364022	95.776	ug/l	97	
61) Tetrachloroethene	11.082	164	49494	20.208	ug/l	97	
62) Toluene	10.612	91	281866	18.943	ug/l	100	
64) Chlorobenzene	11.871	112	178909	19.590	ug/l	91	
65) 1,1,1,2-Tetrachloroethane	11.935	131	64249	19.982	ug/l	98	
66) Ethyl Benzene	11.941	91	298676	18.606	ug/l	95	
67) m/p-Xylenes	12.047	106	232789	39.066	ug/l	91	
68) o-Xylene	12.376	106	111139	19.236	ug/l	96	
69) Styrene	12.394	104	192210	19.141	ug/l	98	
70) Isopropylbenzene	12.671	105	280125	19.121	ug/l	98	
71) 1,1,2,2-Tetrachloroethane	12.912	83	104825	19.904	ug/l	98	
72) 1,2,3-Trichloropropane	12.976	75	98517m	19.051	ug/l		
73) Bromobenzene	12.959	156	71960	20.077	ug/l	90	
74) n-propylbenzene	13.012	91	344863	18.657	ug/l	98	
75) 2-Chlorotoluene	13.106	91	203014	18.248	ug/l	92	
76) 1,3,5-Trimethylbenzene	13.153	105	229923	18.585	ug/l	95	
77) t-1,4-Dichloro-2-butene	12.718	75	35777	20.498	ug/l	97	
78) 4-Chlorotoluene	13.200	91	203348	18.131	ug/l	95	
79) tert-butylbenzene	13.418	119	199634	19.269	ug/l	94	
80) 1,2,4-Trimethylbenzene	13.459	105	229662	18.107	ug/l	96	
81) sec-Butylbenzene	13.594	105	278947	18.305	ug/l	97	
82) p-Isopropyltoluene	13.706	119	233655	18.609	ug/l	97	
83) 1,3-Dichlorobenzene	13.712	146	139393	20.172	ug/l	97	
84) 1,4-Dichlorobenzene	13.788	146	143837	20.767	ug/l	99	
85) n-Butylbenzene	14.035	91	222821	18.462	ug/l	98	
86) Hexachloroethane	14.306	117	45816	17.965	ug/l	88	
87) 1,2-Dichlorobenzene	14.082	146	134295	20.606	ug/l	97	
88) 1,2-Dibromo-3-Chloropr...	14.694	75	24068	20.593	ug/l	85	
89) 1,2,4-Trichlorobenzene	15.812	180	72746	19.625	ug/l	95	
90) Hexachlorobutadiene	15.476	225	30240	24.335	ug/l	88	
91) Naphthalene	15.612	128	259275	19.000	ug/l	98	
92) 1,2,3-Trichlorobenzene	15.812	180	72746	19.625	ug/l	95	

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

