

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081825\
 Data File : VN087596.D
 Acq On : 18 Aug 2025 10:06
 Operator : JC\MD
 Sample : VN0818WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0818WBS01

Quant Time: Aug 19 01:09:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/19/2025
 Supervised By : Mahesh Dadoda 08/20/2025

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

Internal Standards						
1) Bromochloromethane	7.800	128	64865	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	356557	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	320424	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	170159	28.441	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	94.800%		
60) 4-Bromofluorobenzene	12.829	95	158948	28.825	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	96.067%		
63) Toluene-d8	10.547	98	435167	29.516	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.400%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	73285	17.305	ug/l	95
3) Chloromethane	2.383	50	77025	17.727	ug/l	97
4) Vinyl Chloride	2.542	62	84326	18.298	ug/l	98
5) Bromomethane	2.983	94	33770	13.538	ug/l	98
6) Chloroethane	3.136	64	56557	19.032	ug/l	97
7) Trichlorofluoromethane	3.506	101	126678	19.100	ug/l	98
8) Diethyl Ether	3.959	74	53133	19.229	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	67601	19.988	ug/l	98
10) 1,1-Dichloroethene	4.342	96	71432	20.107	ug/l	100
11) Methyl Iodide	4.577	142	47256	16.894	ug/l	97
12) Methyl Acetate	5.012	43	122806	18.732	ug/l	91
13) Acrolein	4.171	56	126320	126.155	ug/l	95
14) Acrylonitrile	5.706	53	253336	88.495	ug/l	98
15) Acetone	4.418	58	89804	109.791	ug/l	94
16) Carbon Disulfide	4.706	76	202123	18.341	ug/l	97
17) Allyl chloride	5.012	41	109801	15.164	ug/l	94
18) Methylene Chloride	5.265	84	81724	17.869	ug/l	89
19) trans-1,2-Dichloroethene	5.771	96	75026	17.759	ug/l	93
20) Diisopropyl ether	6.659	45	270726	16.412	ug/l	98
21) 1,1-Dichloroethane	6.547	63	147822	17.336	ug/l	96
22) cis-1,2-Dichloroethene	7.477	96	93453	17.978	ug/l	96
23) tert-Butyl Alcohol	5.524	59	109179	89.752	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	286415	17.693	ug/l #	72
25) Chloroform	7.947	83	158559	17.815	ug/l	98
26) Cyclohexane	8.241	56	119147	17.452	ug/l #	96
29) 1,1-Dichloropropene	8.359	75	104460	17.962	ug/l	98
30) 2-Butanone	7.471	43	386193	90.091	ug/l	99
31) 2,2-Dichloropropane	7.471	77	135120	18.015	ug/l	99
32) 1,1,1-Trichloroethane	8.153	97	132136	17.815	ug/l	98
33) Carbon Tetrachloride	8.347	117	112626	18.278	ug/l	95
34) Benzene	8.594	78	328631	17.902	ug/l	97
35) Methacrylonitrile	7.759	41	81486	17.615	ug/l	89
36) 1,2-Dichloroethane	8.653	62	126853	17.097	ug/l #	93
37) Trichloroethene	9.335	130	74306	18.375	ug/l	91
38) Methylcyclohexane	9.582	83	117937	17.481	ug/l	97
39) 1,2-Dichloropropane	9.600	63	83296	17.697	ug/l	98
40) Dibromomethane	9.688	93	61834	17.510	ug/l	94
41) Bromodichloromethane	9.871	83	128416	17.500	ug/l #	99
42) Vinyl Acetate	6.589	43	1217078	86.215	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	145219	17.536	ug/l	99
44) Isopropyl Acetate	8.671	43	238620	16.998	ug/l	100
45) 1,4-Dioxane	9.682	88	35181	393.125	ug/l	92
46) Methyl methacrylate	9.665	41	107919	16.286	ug/l	92
47) n-amyl Acetate	12.523	43	123862m	15.972	ug/l	
48) t-1,3-Dichloropropene	10.818	75	135668	16.994	ug/l	97
49) cis-1,3-Dichloropropene	10.294	75	139058	17.308	ug/l	93
50) 1,1,2-Trichloroethane	10.994	97	80118	17.956	ug/l	99
51) Ethyl methacrylate	10.859	69	136612	17.385	ug/l	94
52) 1,3-Dichloropropane	11.147	76	142937	17.782	ug/l	99
53) Dibromochloromethane	11.341	129	89243	17.319	ug/l	99
54) 1,2-Dibromoethane	11.447	107	85080	17.962	ug/l	97
55) 2-Chloroethyl vinyl ether	10.141	63	374401	90.507	ug/l	99
56) Bromoform	12.559	173	52780	15.486	ug/l	95
58) 4-Methyl-2-Pentanone	10.430	43	721584	87.541	ug/l	98
59) 2-Hexanone	11.182	43	477499	85.259	ug/l	98
61) Tetrachloroethene	11.082	164	63686	20.401	ug/l #	83
62) Toluene	10.612	91	355597	17.981	ug/l	100
64) Chlorobenzene	11.871	112	219723	18.081	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.941	131	75107	17.579	ug/l	98
66) Ethyl Benzene	11.941	91	389273	17.660	ug/l	97
67) m/p-Xylenes	12.053	106	291109	35.979	ug/l	97
68) o-Xylene	12.376	106	141800	17.814	ug/l	98
69) Styrene	12.394	104	238497	17.547	ug/l	98
70) Isopropylbenzene	12.676	105	369744	18.283	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.918	83	126846	18.306	ug/l	98
72) 1,2,3-Trichloropropane	12.971	75	120566m	18.678	ug/l	
73) Bromobenzene	12.959	156	85863	18.315	ug/l	90
74) n-propylbenzene	13.018	91	448033	17.740	ug/l	100
75) 2-Chlorotoluene	13.106	91	268188	17.263	ug/l	98
76) 1,3,5-Trimethylbenzene	13.153	105	310074	17.908	ug/l	98
77) t-1,4-Dichloro-2-butene	12.723	75	24306	9.947	ug/l	84
78) 4-Chlorotoluene	13.200	91	277560	17.630	ug/l	99
79) tert-butylbenzene	13.418	119	263685	18.062	ug/l	97
80) 1,2,4-Trimethylbenzene	13.459	105	313131	18.098	ug/l	98
81) sec-Butylbenzene	13.594	105	385546	18.141	ug/l	99
82) p-Isopropyltoluene	13.706	119	313878	17.787	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	165175	18.502	ug/l	99
84) 1,4-Dichlorobenzene	13.794	146	169851	18.767	ug/l	98
85) n-Butylbenzene	14.035	91	302297	17.509	ug/l	99
86) Hexachloroethane	14.312	117	53860	15.630	ug/l	95
87) 1,2-Dichlorobenzene	14.082	146	156400	18.354	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.700	75	29700	16.920	ug/l	92
89) 1,2,4-Trichlorobenzene	15.817	180	92165	18.097	ug/l	99
90) Hexachlorobutadiene	15.476	225	33852	17.094	ug/l	96
91) Naphthalene	15.617	128	345054	17.769	ug/l	99
92) 1,2,3-Trichlorobenzene	15.817	180	92165	18.097	ug/l	99

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

