

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072425\
 Data File : VN087410.D
 Acq On : 24 Jul 2025 10:27
 Operator : JC\MD
 Sample : VN0724WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0724WBSD01

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: Jul 25 04:52:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 24 05:11:26 2025
 Response via : Initial Calibration

07/25/2025
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	7.794	128	28127	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	138710	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	129812	30.000	ug/l	0.00

07/25/2025

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	69087	29.783	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.267%
60) 4-Bromofluorobenzene	12.829	95	59888	27.653	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	92.167%
63) Toluene-d8	10.547	98	173346	29.363	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.867%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	34490	20.040	ug/l	93
3) Chloromethane	2.383	50	30822	18.031	ug/l	99
4) Vinyl Chloride	2.536	62	35640	18.917	ug/l	93
5) Bromomethane	2.983	94	24599	21.100	ug/l	83
6) Chloroethane	3.142	64	27341	18.883	ug/l #	84
7) Trichlorofluoromethane	3.512	101	65929	20.577	ug/l	94
8) Diethyl Ether	3.959	74	25772	20.207	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.377	101	35168	20.712	ug/l #	72
10) 1,1-Dichloroethene	4.342	96	33713	19.124	ug/l	95
11) Methyl Iodide	4.583	142	21220	16.502	ug/l	88
12) Methyl Acetate	5.024	43	43392	18.924	ug/l	92
13) Acrolein	4.177	56	51948	124.620	ug/l	99
14) Acrylonitrile	5.712	53	98886	94.435	ug/l	98
15) Acetone	4.418	58	33424	90.410	ug/l	83
16) Carbon Disulfide	4.700	76	83650	18.374	ug/l	99
17) Allyl chloride	5.006	41	42526	17.610	ug/l	96
18) Methylene Chloride	5.265	84	33463	18.756	ug/l	96
19) trans-1,2-Dichloroethene	5.777	96	31043	17.931	ug/l	89
20) Diisopropyl ether	6.653	45	105973	17.354	ug/l	99
21) 1,1-Dichloroethane	6.559	63	61332	18.804	ug/l	95
22) cis-1,2-Dichloroethene	7.477	96	38226	18.851	ug/l	94
23) tert-Butyl Alcohol	5.518	59	36221	100.928	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	106315	18.662	ug/l	98
25) Chloroform	7.947	83	64360	18.017	ug/l	91
26) Cyclohexane	8.241	56	43996	18.094	ug/l #	95
29) 1,1-Dichloropropene	8.353	75	39651	16.755	ug/l	93
30) 2-Butanone	7.471	43	143567	89.078	ug/l	98
31) 2,2-Dichloropropane	7.477	77	54894	17.662	ug/l	99
32) 1,1,1-Trichloroethane	8.147	97	56522	18.249	ug/l	99
33) Carbon Tetrachloride	8.347	117	50123m	18.628	ug/l	
34) Benzene	8.588	78	131779	17.241	ug/l	97
35) Methacrylonitrile	7.765	41	28293	16.693	ug/l	92
36) 1,2-Dichloroethane	8.653	62	53095	17.609	ug/l	100
37) Trichloroethene	9.335	130	32712	18.754	ug/l	99
38) Methylcyclohexane	9.582	83	44993	17.985	ug/l	99
39) 1,2-Dichloropropane	9.600	63	33239	17.310	ug/l	98
40) Dibromomethane	9.688	93	25712	17.307	ug/l	93
41) Bromodichloromethane	9.871	83	52505	17.800	ug/l #	87
42) Vinyl Acetate	6.594	43	511855	93.752	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	7.547	43	58163	17.727	ug/l	#	81
44) Isopropyl Acetate	8.677	43	88716	17.127	ug/l		98
45) 1,4-Dioxane	9.682	88	12241	383.566	ug/l	#	65
46) Methyl methacrylate	9.665	41	40067	16.797	ug/l		94
47) n-amyl Acetate	12.518	43	54247m	17.476	ug/l		
48) t-1,3-Dichloropropene	10.818	75	53794	17.096	ug/l		96
49) cis-1,3-Dichloropropene	10.294	75	55107	17.511	ug/l		98
50) 1,1,2-Trichloroethane	11.000	97	34634	18.051	ug/l		92
51) Ethyl methacrylate	10.859	69	47568	16.213	ug/l		93
52) 1,3-Dichloropropane	11.147	76	58020	17.588	ug/l		95
53) Dibromochloromethane	11.341	129	38079	16.934	ug/l		94
54) 1,2-Dibromoethane	11.447	107	34351	17.467	ug/l		99
55) 2-Chloroethyl vinyl ether	10.141	63	150704	92.333	ug/l		98
56) Bromoform	12.559	173	25131	15.713	ug/l		97
58) 4-Methyl-2-Pentanone	10.429	43	291230	91.748	ug/l		99
59) 2-Hexanone	11.182	43	187818	87.662	ug/l		99
61) Tetrachloroethene	11.088	164	26723	18.434	ug/l		98
62) Toluene	10.612	91	140531	17.776	ug/l		99
64) Chlorobenzene	11.871	112	92499	18.301	ug/l		98
65) 1,1,1,2-Tetrachloroethane	11.941	131	32429	17.557	ug/l		96
66) Ethyl Benzene	11.941	91	148266	17.323	ug/l		94
67) m/p-Xylenes	12.047	106	117721	34.755	ug/l		100
68) o-Xylene	12.376	106	55224	16.997	ug/l		98
69) Styrene	12.394	104	94364	16.693	ug/l		100
70) Isopropylbenzene	12.676	105	142236	17.382	ug/l		97
71) 1,1,2,2-Tetrachloroethane	12.918	83	51475	17.882	ug/l		97
72) 1,2,3-Trichloropropane	12.976	75	44700m	17.382	ug/l		
73) Bromobenzene	12.965	156	37852	17.772	ug/l		95
74) n-propylbenzene	13.017	91	179349	17.356	ug/l		100
75) 2-Chlorotoluene	13.106	91	106090	17.093	ug/l		100
76) 1,3,5-Trimethylbenzene	13.153	105	121557	17.078	ug/l		100
77) t-1,4-Dichloro-2-butene	12.723	75	16472	16.027	ug/l		88
78) 4-Chlorotoluene	13.200	91	111940	16.911	ug/l		100
79) tert-butylbenzene	13.417	119	101470	16.786	ug/l		97
80) 1,2,4-Trimethylbenzene	13.459	105	122221	16.821	ug/l		99
81) sec-Butylbenzene	13.594	105	153634	17.611	ug/l		99
82) p-Isopropyltoluene	13.706	119	129444	17.288	ug/l		97
83) 1,3-Dichlorobenzene	13.712	146	73508	17.129	ug/l		100
84) 1,4-Dichlorobenzene	13.794	146	70465	16.635	ug/l		98
85) n-Butylbenzene	14.035	91	121029	17.551	ug/l		100
86) Hexachloroethane	14.312	117	25410	17.439	ug/l		98
87) 1,2-Dichlorobenzene	14.082	146	66783	16.528	ug/l		97
88) 1,2-Dibromo-3-Chloropr...	14.700	75	11286	16.851	ug/l		95
89) 1,2,4-Trichlorobenzene	15.811	180	40340	17.307	ug/l		97
90) Hexachlorobutadiene	15.470	225	18163	18.892	ug/l		93
91) Naphthalene	15.611	128	129546	16.699	ug/l		99
92) 1,2,3-Trichlorobenzene	15.811	180	40340	17.307	ug/l		97

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

