

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN070925\
 Data File : VN087308.D
 Acq On : 09 Jul 2025 12:21
 Operator : JC\MD
 Sample : VN0709WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0709WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/10/2025
 Supervised By : Mahesh Dadoda 07/10/2025

Quant Time: Jul 10 01:24:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 25 10:49:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	45337	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	235043	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	219225	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	95678m	28.009	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	93.367%	
60) 4-Bromofluorobenzene	12.847	95	103494	30.593	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	101.967%	
63) Toluene-d8	10.565	98	291882	29.653	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	98.833%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.159	85	45648	16.726	ug/l	94
3) Chloromethane	2.401	50	38469	13.801	ug/l	99
4) Vinyl Chloride	2.554	62	47716	15.750	ug/l	94
5) Bromomethane	2.995	94	40063	24.918	ug/l	91
6) Chloroethane	3.154	64	36568	22.502	ug/l	100
7) Trichlorofluoromethane	3.530	101	77802	20.937	ug/l	92
8) Diethyl Ether	3.989	74	26559	14.547	ug/l	83
9) 1,1,2-Trichlorotrifluo...	4.400	101	47849	17.368	ug/l	91
10) 1,1-Dichloroethene	4.365	96	45687	16.636	ug/l	94
11) Methyl Iodide	4.612	142	50531	20.538	ug/l	85
12) Methyl Acetate	5.048	43	59760	13.872	ug/l	96
13) Acrolein	4.200	56	57624	87.054	ug/l	98
14) Acrylonitrile	5.736	53	134918	67.145	ug/l	98
15) Acetone	4.442	58	43698	74.554	ug/l	95
16) Carbon Disulfide	4.736	76	116086	14.457	ug/l	98
17) Allyl chloride	5.042	41	55037	12.150	ug/l	94
18) Methylene Chloride	5.295	84	53533	16.826	ug/l	90
19) trans-1,2-Dichloroethene	5.806	96	48593	16.179	ug/l	93
20) Diisopropyl ether	6.689	45	130695	13.599	ug/l #	93
21) 1,1-Dichloroethane	6.583	63	84343	14.684	ug/l	98
22) cis-1,2-Dichloroethene	7.494	96	61352	17.552	ug/l	88
23) tert-Butyl Alcohol	5.536	59	57684	76.335	ug/l #	100
24) Methyl tert-Butyl Ether	5.812	73	151834	15.763	ug/l	99
25) Chloroform	7.971	83	98050	17.818	ug/l	97
26) Cyclohexane	8.265	56	64513	13.512	ug/l #	84
29) 1,1-Dichloropropene	8.377	75	61700	16.842	ug/l	86
30) 2-Butanone	7.489	43	181334	73.378	ug/l #	87
31) 2,2-Dichloropropane	7.500	77	85248	19.277	ug/l #	84
32) 1,1,1-Trichloroethane	8.177	97	86764	20.272	ug/l	98
33) Carbon Tetrachloride	8.371	117	77070	21.398	ug/l	98
34) Benzene	8.612	78	199018	17.148	ug/l	99
35) Methacrylonitrile	7.783	41	34777	13.964	ug/l	82
36) 1,2-Dichloroethane	8.677	62	70198	18.720	ug/l	99
37) Trichloroethene	9.353	130	54613	20.401	ug/l #	77
38) Methylcyclohexane	9.606	83	72077	17.147	ug/l	93
39) 1,2-Dichloropropane	9.624	63	47043	16.149	ug/l	98
40) Dibromomethane	9.712	93	39522	19.953	ug/l	99
41) Bromodichloromethane	9.888	83	76763	19.200	ug/l	99
42) Vinyl Acetate	6.618	43	509724	63.417	ug/l #	89

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	70466	15.796	ug/l	96
44) Isopropyl Acetate	8.694	43	104933	14.437	ug/l	93
45) 1,4-Dioxane	9.706	88	19298	392.494	ug/l #	79
46) Methyl methacrylate	9.682	41	46035	13.624	ug/l	94
47) n-amyl Acetate	12.547	43	79494m	17.889	ug/l	
48) t-1,3-Dichloropropene	10.835	75	78002	17.501	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	80966	17.088	ug/l	98
50) 1,1,2-Trichloroethane	11.018	97	52858	18.786	ug/l	97
51) Ethyl methacrylate	10.882	69	64361	15.028	ug/l	87
52) 1,3-Dichloropropane	11.165	76	82761	17.133	ug/l	98
53) Dibromochloromethane	11.353	129	62547	21.177	ug/l	97
54) 1,2-Dibromoethane	11.471	107	56143	19.340	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	165641	67.477	ug/l	95
56) Bromoform	12.576	173	42142	20.755	ug/l #	99
58) 4-Methyl-2-Pentanone	10.447	43	320669	72.760	ug/l #	94
59) 2-Hexanone	11.206	43	197343	69.344	ug/l	98
61) Tetrachloroethene	11.106	164	43714	20.135	ug/l	93
62) Toluene	10.630	91	222945	18.006	ug/l	98
64) Chlorobenzene	11.888	112	154416	19.551	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	54803	21.001	ug/l	97
66) Ethyl Benzene	11.965	91	239931	17.704	ug/l	97
67) m/p-Xylenes	12.071	106	200663	38.639	ug/l	94
68) o-Xylene	12.394	106	91322	18.432	ug/l	96
69) Styrene	12.412	104	158832	18.673	ug/l	98
70) Isopropylbenzene	12.694	105	242018	19.613	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	80769	18.185	ug/l	94
72) 1,2,3-Trichloropropane	12.994	75	71289m	18.613	ug/l	
73) Bromobenzene	12.976	156	63356	21.166	ug/l	83
74) n-propylbenzene	13.035	91	289043	19.174	ug/l	95
75) 2-Chlorotoluene	13.123	91	172699	18.962	ug/l	94
76) 1,3,5-Trimethylbenzene	13.171	105	202455	20.154	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	27346	16.096	ug/l	96
78) 4-Chlorotoluene	13.218	91	178795	19.168	ug/l	94
79) tert-butylbenzene	13.435	119	176396	20.890	ug/l	96
80) 1,2,4-Trimethylbenzene	13.482	105	200843	19.911	ug/l	97
81) sec-Butylbenzene	13.612	105	251743	20.509	ug/l	97
82) p-Isopropyltoluene	13.729	119	217730	21.315	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	125476	21.769	ug/l	97
84) 1,4-Dichlorobenzene	13.812	146	121774	20.992	ug/l	98
85) n-Butylbenzene	14.053	91	183228	19.659	ug/l	98
86) Hexachloroethane	14.329	117	41143	21.278	ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	119476	21.983	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	20096	20.094	ug/l	92
89) 1,2,4-Trichlorobenzene	15.835	180	63235	20.565	ug/l	96
90) Hexachlorobutadiene	15.500	225	19204	21.047	ug/l	97
91) Naphthalene	15.635	128	225774	18.657	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	63235	20.565	ug/l	96

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

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