

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071025\
 Data File : VN087318.D
 Acq On : 10 Jul 2025 11:53
 Operator : JC\MD
 Sample : VN0710WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0710WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/11/2025
 Supervised By : Mahesh Dadoda 07/14/2025

Quant Time: Jul 11 01:08:15 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	43478	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	213327	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	206435	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	89417	27.296	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	91.000%		
60) 4-Bromofluorobenzene	12.847	95	96219	30.205	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.700%		
63) Toluene-d8	10.565	98	266713	28.775	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	95.933%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.154	85	38632	14.761	ug/l	99
3) Chloromethane	2.401	50	34367	12.856	ug/l	96
4) Vinyl Chloride	2.554	62	40108	13.805	ug/l	100
5) Bromomethane	3.001	94	36871	23.913	ug/l	84
6) Chloroethane	3.159	64	34534	22.159	ug/l	95
7) Trichlorofluoromethane	3.530	101	66118	18.553	ug/l	95
8) Diethyl Ether	3.989	74	25973	14.834	ug/l	85
9) 1,1,2-Trichlorotrifluo...	4.395	101	42899	16.237	ug/l	69
10) 1,1-Dichloroethene	4.365	96	39401	14.960	ug/l	95
11) Methyl Iodide	4.618	142	44964	19.056	ug/l	88
12) Methyl Acetate	5.042	43	59065	14.297	ug/l	99
13) Acrolein	4.206	56	68693	108.213	ug/l	98
14) Acrylonitrile	5.742	53	130117	67.525	ug/l	96
15) Acetone	4.448	58	41585	73.982	ug/l	88
16) Carbon Disulfide	4.742	76	102627	13.327	ug/l	97
17) Allyl chloride	5.053	41	49345	11.359	ug/l	95
18) Methylene Chloride	5.300	84	50036	16.399	ug/l	91
19) trans-1,2-Dichloroethene	5.812	96	44108	15.314	ug/l	92
20) Diisopropyl ether	6.683	45	120093	13.030	ug/l	96
21) 1,1-Dichloroethane	6.583	63	79972	14.518	ug/l	96
22) cis-1,2-Dichloroethene	7.500	96	55036	16.418	ug/l	92
23) tert-Butyl Alcohol	5.536	59	51657	71.282	ug/l #	100
24) Methyl tert-Butyl Ether	5.818	73	147683	15.988	ug/l	99
25) Chloroform	7.971	83	91627	17.363	ug/l	92
26) Cyclohexane	8.265	56	56751	12.395	ug/l #	86
29) 1,1-Dichloropropene	8.383	75	56706	17.055	ug/l	98
30) 2-Butanone	7.489	43	174754	77.914	ug/l #	91
31) 2,2-Dichloropropane	7.500	77	75667	18.852	ug/l	99
32) 1,1,1-Trichloroethane	8.177	97	80528	20.731	ug/l	96
33) Carbon Tetrachloride	8.371	117	68065	20.822	ug/l	90
34) Benzene	8.612	78	184295	17.496	ug/l	98
35) Methacrylonitrile	7.788	41	32474	14.367	ug/l #	70
36) 1,2-Dichloroethane	8.677	62	68912	20.248	ug/l	99
37) Trichloroethene	9.353	130	46707	19.224	ug/l	79
38) Methylcyclohexane	9.600	83	60079	15.748	ug/l	94
39) 1,2-Dichloropropane	9.624	63	45815	17.329	ug/l	98
40) Dibromomethane	9.706	93	39225	21.819	ug/l	95
41) Bromodichloromethane	9.888	83	71521	19.710	ug/l	98
42) Vinyl Acetate	6.618	43	557843	76.469	ug/l #	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071025\
 Data File : VN087318.D
 Acq On : 10 Jul 2025 11:53
 Operator : JC\MD
 Sample : VN0710WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0710WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/11/2025
 Supervised By : Mahesh Dadoda 07/14/2025

Quant Time: Jul 11 01:08:15 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)
43) Ethyl Acetate	7.571	43	69979	17.283	ug/l	97
44) Isopropyl Acetate	8.694	43	105647	16.015	ug/l	94
45) 1,4-Dioxane	9.706	88	16279	364.796	ug/l #	82
46) Methyl methacrylate	9.688	41	46575	15.187	ug/l	89
47) n-amyl Acetate	12.535	43	59414m	14.731	ug/l	
48) t-1,3-Dichloropropene	10.835	75	74747	18.477	ug/l	95
49) cis-1,3-Dichloropropene	10.312	75	75850	17.637	ug/l	96
50) 1,1,2-Trichloroethane	11.018	97	50939	19.947	ug/l	94
51) Ethyl methacrylate	10.882	69	60712	15.620	ug/l	93
52) 1,3-Dichloropropane	11.165	76	80260	18.306	ug/l	99
53) Dibromochloromethane	11.359	129	58101	21.674	ug/l	100
54) 1,2-Dibromoethane	11.471	107	53907	20.460	ug/l	97
55) 2-Chloroethyl vinyl ether	10.165	63	159599	71.634	ug/l	94
56) Bromoform	12.576	173	40144	21.784	ug/l	98
58) 4-Methyl-2-Pentanone	10.447	43	323835	78.031	ug/l	98
59) 2-Hexanone	11.206	43	186329	69.530	ug/l	97
61) Tetrachloroethene	11.106	164	39473	19.308	ug/l	94
62) Toluene	10.629	91	209457	17.965	ug/l	99
64) Chlorobenzene	11.888	112	142509	19.162	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.959	131	51088	20.790	ug/l	95
66) Ethyl Benzene	11.965	91	223351	17.502	ug/l	94
67) m/p-Xylenes	12.071	106	180696	36.950	ug/l	95
68) o-Xylene	12.400	106	86642	18.571	ug/l	94
69) Styrene	12.412	104	147043	18.358	ug/l	98
70) Isopropylbenzene	12.694	105	215183	18.519	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	78763	18.832	ug/l	96
72) 1,2,3-Trichloropropane	12.994	75	77598m	21.515	ug/l	
73) Bromobenzene	12.982	156	57731	20.482	ug/l	85
74) n-propylbenzene	13.035	91	263560	18.567	ug/l	95
75) 2-Chlorotoluene	13.123	91	160616	18.728	ug/l	92
76) 1,3,5-Trimethylbenzene	13.170	105	185472	19.607	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	26867	16.794	ug/l	94
78) 4-Chlorotoluene	13.218	91	168398	19.172	ug/l	94
79) tert-butylbenzene	13.435	119	159746	20.090	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	188426	19.837	ug/l	100
81) sec-Butylbenzene	13.612	105	225155	19.479	ug/l	95
82) p-Isopropyltoluene	13.729	119	195037	20.276	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	115110	21.208	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	115357	21.118	ug/l	99
85) n-Butylbenzene	14.053	91	162676	18.536	ug/l	98
86) Hexachloroethane	14.335	117	37956	20.846	ug/l	99
87) 1,2-Dichlorobenzene	14.106	146	112151	21.914	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	19078	20.258	ug/l	92
89) 1,2,4-Trichlorobenzene	15.835	180	58754	20.292	ug/l	98
90) Hexachlorobutadiene	15.500	225	16592	19.311	ug/l	93
91) Naphthalene	15.635	128	217054	19.047	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	58754	20.292	ug/l	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071025\
Data File : VN087318.D
Acq On : 10 Jul 2025 11:53
Operator : JC\MD
Sample : VN0710WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0710WBSD01

Manual Integrations
APPROVED

Reviewed By : John Carlone 07/11/2025
Supervised By : Mahesh Dadoda 07/14/2025

Quant Time: Jul 11 01:08:15 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

