

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052925\
 Data File : VN086814.D
 Acq On : 29 May 2025 14:28
 Operator : JC\MD
 Sample : VN0529WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0529WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/30/2025
 Supervised By : Mahesh Dadoda 05/30/2025

Quant Time: May 30 02:42:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N052925W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 30 02:22:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	39012	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	225024	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	196952	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	80777	30.136	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.467%			
60) 4-Bromofluorobenzene	12.847	95	91528	29.600	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.667%			
63) Toluene-d8	10.565	98	273266	30.229	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.767%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	51898	19.587	ug/l	98
3) Chloromethane	2.359	50	64729	18.947	ug/l	96
4) Vinyl Chloride	2.512	62	59186	18.826	ug/l	98
5) Bromomethane	2.959	94	31670	19.012	ug/l	92
6) Chloroethane	3.124	64	37151	19.320	ug/l	94
7) Trichlorofluoromethane	3.501	101	70726	19.208	ug/l	97
8) Diethyl Ether	3.959	74	29457	19.178	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.377	101	44221	19.596	ug/l	97
10) 1,1-Dichloroethene	4.342	96	44803	19.474	ug/l	97
11) Methyl Iodide	4.583	142	52233	19.259	ug/l	97
12) Methyl Acetate	5.024	43	47177	18.464	ug/l	97
13) Acrolein	4.177	56	23553	89.233	ug/l	99
14) Acrylonitrile	5.718	53	112813	94.881	ug/l	98
15) Acetone	4.424	58	29267	97.218	ug/l	85
16) Carbon Disulfide	4.712	76	128495	19.133	ug/l	100
17) Allyl chloride	5.018	41	67113	19.636	ug/l	99
18) Methylene Chloride	5.271	84	51101	19.126	ug/l	98
19) trans-1,2-Dichloroethene	5.783	96	47264	19.631	ug/l	93
20) Diisopropyl ether	6.671	45	150046	19.933	ug/l	95
21) 1,1-Dichloroethane	6.559	63	86617	19.067	ug/l	99
22) cis-1,2-Dichloroethene	7.483	96	57534	19.733	ug/l	98
23) tert-Butyl Alcohol	5.512	59	37407	97.970	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	147763	19.488	ug/l	99
25) Chloroform	7.965	83	85552	19.241	ug/l	95
26) Cyclohexane	8.253	56	75568	19.220	ug/l #	98
29) 1,1-Dichloropropene	8.365	75	63523	19.200	ug/l	99
30) 2-Butanone	7.477	43	136606	94.235	ug/l	98
31) 2,2-Dichloropropane	7.489	77	74990	19.202	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	73036	19.043	ug/l	99
33) Carbon Tetrachloride	8.359	117	62464	19.053	ug/l	93
34) Benzene	8.606	78	205447	19.085	ug/l	98
35) Methacrylonitrile	7.777	41	31053	18.648	ug/l	93
36) 1,2-Dichloroethane	8.665	62	60249	19.099	ug/l	98
37) Trichloroethene	9.347	130	54063	18.106	ug/l	98
38) Methylcyclohexane	9.594	83	68555	18.675	ug/l	99
39) 1,2-Dichloropropane	9.618	63	48355	18.658	ug/l	95
40) Dibromomethane	9.706	93	32392	19.110	ug/l	100
41) Bromodichloromethane	9.883	83	66521	18.748	ug/l	98
42) Vinyl Acetate	6.600	43	436800	103.372	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	55460m	18.697	ug/l	
44) Isopropyl Acetate	8.683	43	98414	19.341	ug/l	99
45) 1,4-Dioxane	9.694	88	17310	382.736	ug/l	91
46) Methyl methacrylate	9.677	41	44785	19.088	ug/l	97
47) n-amyl Acetate	12.488	43	78982	19.334	ug/l	100
48) t-1,3-Dichloropropene	10.830	75	71749	18.896	ug/l	99
49) cis-1,3-Dichloropropene	10.306	75	78068	18.693	ug/l	97
50) 1,1,2-Trichloroethane	11.012	97	46316	19.400	ug/l	95
51) Ethyl methacrylate	10.871	69	72415	18.729	ug/l	96
52) 1,3-Dichloropropane	11.159	76	79148	18.681	ug/l	100
53) Dibromochloromethane	11.359	129	50872	18.857	ug/l	98
54) 1,2-Dibromoethane	11.465	107	46129	18.903	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	178225	96.029	ug/l	99
56) Bromoform	12.576	173	31357	18.447	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	281330	97.348	ug/l	99
59) 2-Hexanone	11.194	43	202068	97.614	ug/l	99
61) Tetrachloroethene	11.100	164	62684	18.934	ug/l	90
62) Toluene	10.624	91	217929	19.647	ug/l	100
64) Chlorobenzene	11.888	112	136770	19.334	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.959	131	44618	19.199	ug/l	100
66) Ethyl Benzene	11.959	91	228625	19.056	ug/l	98
67) m/p-Xylenes	12.065	106	180321	38.300	ug/l	100
68) o-Xylene	12.394	106	88744	19.450	ug/l	98
69) Styrene	12.406	104	145920	19.195	ug/l	99
70) Isopropylbenzene	12.694	105	209036	19.262	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	51741	20.053	ug/l	98
72) 1,2,3-Trichloropropane	12.988	75	64388m	21.292	ug/l	
73) Bromobenzene	12.976	156	51615	19.135	ug/l	100
74) n-propylbenzene	13.029	91	245885	19.128	ug/l	99
75) 2-Chlorotoluene	13.118	91	157706	19.114	ug/l	98
76) 1,3,5-Trimethylbenzene	13.171	105	173580	19.227	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	22275	18.000	ug/l	94
78) 4-Chlorotoluene	13.218	91	157358	19.253	ug/l	99
79) tert-butylbenzene	13.435	119	148460	19.020	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	172825	19.071	ug/l	98
81) sec-Butylbenzene	13.612	105	201321	18.932	ug/l	100
82) p-Isopropyltoluene	13.723	119	169153	18.944	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	93914	18.979	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	93020	18.889	ug/l	99
85) n-Butylbenzene	14.053	91	138092	18.473	ug/l	100
86) Hexachloroethane	14.329	117	27829	18.287	ug/l	100
87) 1,2-Dichlorobenzene	14.100	146	92020	19.277	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	10606	19.520	ug/l	96
89) 1,2,4-Trichlorobenzene	15.835	180	38131	19.087	ug/l	97
90) Hexachlorobutadiene	15.494	225	16623	19.414	ug/l	99
91) Naphthalene	15.635	128	128849	18.486	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	38131	19.087	ug/l	97

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

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