

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
 Data File : VN086663.D
 Acq On : 16 May 2025 12:46
 Operator : JC\MD
 Sample : VN0516WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0516WBSD01

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

05/19/2025
 Supervised By :Mahesh
 Dadoda

Quant Time: May 16 23:02:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 04:42:24 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.806	128	28926	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	168023	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	156348	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	81302	29.153	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.167%
60) 4-Bromofluorobenzene	12.847	95	88889	28.927	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	96.433%
63) Toluene-d8	10.565	98	254023	29.533	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.433%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	38036	19.046	ug/l	94
3) Chloromethane	2.360	50	52153	18.385	ug/l	100
4) Vinyl Chloride	2.512	62	48184	17.735	ug/l	95
5) Bromomethane	2.959	94	28936	20.399	ug/l	95
6) Chloroethane	3.124	64	32947	18.190	ug/l	93
7) Trichlorofluoromethane	3.495	101	62450	19.473	ug/l	97
8) Diethyl Ether	3.959	74	27019	19.959	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	38445	19.500	ug/l	97
10) 1,1-Dichloroethene	4.336	96	39596	19.622	ug/l	93
11) Methyl Iodide	4.589	142	43465	18.409	ug/l	98
12) Methyl Acetate	5.024	43	63075	22.052	ug/l	96
13) Acrolein	4.177	56	16854	129.050	ug/l	100
14) Acrylonitrile	5.712	53	115846	108.824	ug/l	99
15) Acetone	4.424	58	30442	103.779	ug/l	77
16) Carbon Disulfide	4.712	76	95385	17.938	ug/l	98
17) Allyl chloride	5.024	41	60932	18.884	ug/l	94
18) Methylene Chloride	5.277	84	46968	20.438	ug/l	96
19) trans-1,2-Dichloroethene	5.789	96	41117	19.116	ug/l	96
20) Diisopropyl ether	6.671	45	145988	19.029	ug/l	96
21) 1,1-Dichloroethane	6.565	63	81445	19.394	ug/l	96
22) cis-1,2-Dichloroethene	7.483	96	52993	19.704	ug/l	94
23) tert-Butyl Alcohol	5.512	59	46769	113.412	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	147932	19.841	ug/l	97
25) Chloroform	7.965	83	84035	19.772	ug/l	94
26) Cyclohexane	8.253	56	64146	17.299	ug/l #	98
29) 1,1-Dichloropropene	8.371	75	56468	19.063	ug/l	100
30) 2-Butanone	7.483	43	152288	105.923	ug/l	98
31) 2,2-Dichloropropane	7.489	77	71297	18.724	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	69934	19.757	ug/l	98
33) Carbon Tetrachloride	8.359	117	57211	19.634	ug/l	97
34) Benzene	8.600	78	189486	20.112	ug/l	96
35) Methacrylonitrile	7.771	41	35450	21.615	ug/l	99
36) 1,2-Dichloroethane	8.665	62	62391	20.397	ug/l	98
37) Trichloroethene	9.347	130	46337	19.646	ug/l	92
38) Methylcyclohexane	9.600	83	61208	17.892	ug/l	99
39) 1,2-Dichloropropane	9.618	63	46373	19.924	ug/l	93
40) Dibromomethane	9.706	93	32378	20.802	ug/l	97
41) Bromodichloromethane	9.888	83	66477	20.182	ug/l	96
42) Vinyl Acetate	6.600	43	501487	100.692	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	57430	20.185	ug/l	96
44) Isopropyl Acetate	8.689	43	110043	20.378	ug/l	100
45) 1,4-Dioxane	9.694	88	20269	481.083	ug/l	97
46) Methyl methacrylate	9.677	41	48285	19.385	ug/l	94
47) n-amyl Acetate	12.494	43	89706	19.491	ug/l	97
48) t-1,3-Dichloropropene	10.835	75	70769	19.218	ug/l	97
49) cis-1,3-Dichloropropene	10.312	75	74796	19.261	ug/l	91
50) 1,1,2-Trichloroethane	11.018	97	45950	21.135	ug/l	97
51) Ethyl methacrylate	10.871	69	74477	19.669	ug/l	95
52) 1,3-Dichloropropane	11.159	76	78765	20.499	ug/l	99
53) Dibromochloromethane	11.353	129	49021	20.080	ug/l	99
54) 1,2-Dibromoethane	11.465	107	45566	20.613	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	167035	93.829	ug/l	99
56) Bromoform	12.577	173	31950	20.168	ug/l #	99
58) 4-Methyl-2-Pentanone	10.441	43	315116	104.151	ug/l	99
59) 2-Hexanone	11.194	43	232893	104.454	ug/l	98
61) Tetrachloroethene	11.100	164	47402	19.878	ug/l	94
62) Toluene	10.630	91	206502	19.732	ug/l	99
64) Chlorobenzene	11.888	112	131310	20.137	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	44211	20.277	ug/l	100
66) Ethyl Benzene	11.959	91	226147	19.198	ug/l	99
67) m/p-Xylenes	12.065	106	173274	38.767	ug/l	99
68) o-Xylene	12.394	106	85228	19.475	ug/l	96
69) Styrene	12.406	104	143664	19.368	ug/l	100
70) Isopropylbenzene	12.694	105	207805	19.022	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	65762	22.862	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	53982m	21.526	ug/l	
73) Bromobenzene	12.976	156	51411	20.470	ug/l	97
74) n-propylbenzene	13.029	91	241796	18.626	ug/l	99
75) 2-Chlorotoluene	13.124	91	156263	19.283	ug/l	99
76) 1,3,5-Trimethylbenzene	13.171	105	166994	18.630	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	23291	18.300	ug/l	98
78) 4-Chlorotoluene	13.218	91	155443	19.184	ug/l	100
79) tert-butylbenzene	13.435	119	143723	18.722	ug/l	98
80) 1,2,4-Trimethylbenzene	13.476	105	172040	18.793	ug/l	98
81) sec-Butylbenzene	13.612	105	200667	18.312	ug/l	98
82) p-Isopropyltoluene	13.724	119	167166	18.231	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	91169	19.203	ug/l	99
84) 1,4-Dichlorobenzene	13.806	146	90263	19.243	ug/l	100
85) n-Butylbenzene	14.053	91	140656	17.191	ug/l	99
86) Hexachloroethane	14.329	117	27359	18.247	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	90456	20.024	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.718	75	11214	19.180	ug/l	96
89) 1,2,4-Trichlorobenzene	15.835	180	38535	18.716	ug/l	97
90) Hexachlorobutadiene	15.500	225	16749	20.196	ug/l	98
91) Naphthalene	15.635	128	136046	18.457	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	38535	18.716	ug/l	97

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

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