

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
 Data File : VN086662.D
 Acq On : 16 May 2025 12:13
 Operator : JC\MD
 Sample : VN0516WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0516WBS01

Quant Time: May 16 23:01:14 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

Manual Integrations APPROVED

Reviewed By :John
 Carlone
 05/19/2025

Supervised By :Mahesh
 Dadoda
 05/19/2025

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

Internal Standards						
1) Bromochloromethane	7.812	128	28843	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	173361	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	161573	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	80840	29.070	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	96.900%	
60) 4-Bromofluorobenzene	12.847	95	92594	29.158	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	97.200%	
63) Toluene-d8	10.565	98	260836	29.344	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	97.800%	
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	39294	19.733	ug/l	99
3) Chloromethane	2.359	50	55396	19.584	ug/l	95
4) Vinyl Chloride	2.512	62	51371	18.962	ug/l	97
5) Bromomethane	2.959	94	29610	20.935	ug/l	100
6) Chloroethane	3.124	64	34282	18.981	ug/l	98
7) Trichlorofluoromethane	3.495	101	64570	20.192	ug/l	95
8) Diethyl Ether	3.959	74	27158	20.120	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	41828	21.276	ug/l	97
10) 1,1-Dichloroethene	4.336	96	39916	19.837	ug/l	94
11) Methyl Iodide	4.589	142	43977	18.679	ug/l	95
12) Methyl Acetate	5.018	43	61425	21.537	ug/l	98
13) Acrolein	4.183	56	16736	128.356	ug/l	98
14) Acrylonitrile	5.718	53	114051	107.446	ug/l	99
15) Acetone	4.424	58	33011	112.861	ug/l	90
16) Carbon Disulfide	4.712	76	99695	18.803	ug/l	99
17) Allyl chloride	5.018	41	61644	19.159	ug/l	94
18) Methylene Chloride	5.271	84	48480	21.157	ug/l	92
19) trans-1,2-Dichloroethene	5.783	96	42271	19.709	ug/l	96
20) Diisopropyl ether	6.665	45	146820	19.192	ug/l	97
21) 1,1-Dichloroethane	6.559	63	83825	20.018	ug/l	96
22) cis-1,2-Dichloroethene	7.483	96	54014	20.141	ug/l	94
23) tert-Butyl Alcohol	5.512	59	45044	109.543	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	145424	19.561	ug/l	97
25) Chloroform	7.959	83	85427	20.157	ug/l	100
26) Cyclohexane	8.253	56	66905	18.095	ug/l #	99
29) 1,1-Dichloropropene	8.371	75	58978	19.298	ug/l	99
30) 2-Butanone	7.483	43	153279	103.330	ug/l	98
31) 2,2-Dichloropropane	7.483	77	74507	18.965	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	70793	19.384	ug/l	99
33) Carbon Tetrachloride	8.359	117	59126	19.666	ug/l	99
34) Benzene	8.606	78	192237	19.776	ug/l	97
35) Methacrylonitrile	7.777	41	33809	19.980	ug/l	95
36) 1,2-Dichloroethane	8.671	62	61281	19.417	ug/l	98
37) Trichloroethene	9.347	130	47348	19.457	ug/l	89
38) Methylcyclohexane	9.600	83	63786	18.071	ug/l	98
39) 1,2-Dichloropropane	9.618	63	46861	19.514	ug/l	95
40) Dibromomethane	9.706	93	32015	19.935	ug/l	96
41) Bromodichloromethane	9.888	83	66468	19.558	ug/l	98
42) Vinyl Acetate	6.600	43	510422	99.330	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	59059	20.118	ug/l	98
44) Isopropyl Acetate	8.683	43	111631	20.036	ug/l	99
45) 1,4-Dioxane	9.694	88	19278	443.473	ug/l	98
46) Methyl methacrylate	9.677	41	47887	18.633	ug/l	96
47) n-amyl Acetate	12.488	43	89086	18.760	ug/l	96
48) t-1,3-Dichloropropene	10.835	75	71065	18.704	ug/l	100
49) cis-1,3-Dichloropropene	10.306	75	76890	19.190	ug/l	93
50) 1,1,2-Trichloroethane	11.012	97	45343	20.214	ug/l	96
51) Ethyl methacrylate	10.871	69	75294	19.273	ug/l	96
52) 1,3-Dichloropropane	11.159	76	78396	19.774	ug/l	100
53) Dibromochloromethane	11.353	129	49653	19.713	ug/l	99
54) 1,2-Dibromoethane	11.465	107	45530	19.963	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	168644	91.816	ug/l	98
56) Bromoform	12.576	173	32175	19.685	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	308400	98.635	ug/l	99
59) 2-Hexanone	11.194	43	228594	99.211	ug/l	97
61) Tetrachloroethene	11.100	164	48744	19.780	ug/l	95
62) Toluene	10.629	91	209642	19.384	ug/l	98
64) Chlorobenzene	11.888	112	136239	20.217	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.959	131	44749	19.860	ug/l	98
66) Ethyl Benzene	11.959	91	230693	18.950	ug/l	100
67) m/p-Xylenes	12.065	106	179510	38.864	ug/l	99
68) o-Xylene	12.394	106	87840	19.423	ug/l	98
69) Styrene	12.406	104	148251	19.340	ug/l	99
70) Isopropylbenzene	12.694	105	215439	19.083	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	66109	22.240	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	52916m	20.418	ug/l	
73) Bromobenzene	12.976	156	52329	20.162	ug/l	97
74) n-propylbenzene	13.029	91	252145	18.795	ug/l	98
75) 2-Chlorotoluene	13.123	91	160479	19.163	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	175405	18.936	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	23586	17.933	ug/l	93
78) 4-Chlorotoluene	13.218	91	161917	19.337	ug/l	99
79) tert-butylbenzene	13.435	119	152013	19.161	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	176072	18.612	ug/l	97
81) sec-Butylbenzene	13.612	105	214213	18.916	ug/l	98
82) p-Isopropyltoluene	13.729	119	173538	18.313	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	95368	19.438	ug/l	99
84) 1,4-Dichlorobenzene	13.806	146	92905	19.166	ug/l	100
85) n-Butylbenzene	14.053	91	150093	17.751	ug/l	98
86) Hexachloroethane	14.329	117	28348	18.295	ug/l	98
87) 1,2-Dichlorobenzene	14.106	146	92219	19.754	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.712	75	11166	18.480	ug/l	94
89) 1,2,4-Trichlorobenzene	15.835	180	39465	18.548	ug/l	99
90) Hexachlorobutadiene	15.500	225	16886	19.703	ug/l	96
91) Naphthalene	15.635	128	134393	17.643	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	39465	18.548	ug/l	99

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

