

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
 Data File : VN086661.D
 Acq On : 16 May 2025 11:37
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/19/2025
 Supervised By : Mahesh Dadoda 05/19/2025

Quant Time: May 16 23:00:00 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	29831	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	175700	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	163950	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	82264	28.603	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	95.333%	
60) 4-Bromofluorobenzene	12.847	95	92966	28.851	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	96.167%	
63) Toluene-d8	10.565	98	266858	29.586	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	98.633%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	41358	20.082	ug/l	94
3) Chloromethane	2.359	50	57830	19.768	ug/l	97
4) Vinyl Chloride	2.512	62	54013	19.277	ug/l	99
5) Bromomethane	2.965	94	31351	21.431	ug/l	98
6) Chloroethane	3.124	64	36907	19.758	ug/l	98
7) Trichlorofluoromethane	3.500	101	67438	20.390	ug/l	99
8) Diethyl Ether	3.959	74	29202	20.917	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.371	101	43404	21.347	ug/l	98
10) 1,1-Dichloroethene	4.342	96	41381	19.884	ug/l	98
11) Methyl Iodide	4.583	142	46393	19.053	ug/l	97
12) Methyl Acetate	5.024	43	64573	21.891	ug/l	95
13) Acrolein	4.183	56	12516	82.166	ug/l	96
14) Acrylonitrile	5.712	53	120018	109.322	ug/l	100
15) Acetone	4.424	58	35292	116.663	ug/l	82
16) Carbon Disulfide	4.712	76	104088	18.981	ug/l	99
17) Allyl chloride	5.024	41	64209	19.296	ug/l	94
18) Methylene Chloride	5.277	84	50701	21.393	ug/l	93
19) trans-1,2-Dichloroethene	5.777	96	44331	19.985	ug/l	93
20) Diisopropyl ether	6.671	45	154005	19.465	ug/l	98
21) 1,1-Dichloroethane	6.565	63	88439	20.420	ug/l	98
22) cis-1,2-Dichloroethene	7.483	96	55722	20.090	ug/l	95
23) tert-Butyl Alcohol	5.518	59	46935	110.362	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	152245	19.800	ug/l	97
25) Chloroform	7.965	83	89245	20.361	ug/l	96
26) Cyclohexane	8.253	56	69656	18.215	ug/l #	99
29) 1,1-Dichloropropene	8.365	75	62412	20.149	ug/l	99
30) 2-Butanone	7.477	43	162156	107.859	ug/l	99
31) 2,2-Dichloropropane	7.483	77	77810	19.542	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	75356	20.359	ug/l	99
33) Carbon Tetrachloride	8.359	117	62551	20.529	ug/l	96
34) Benzene	8.600	78	203047	20.610	ug/l	97
35) Methacrylonitrile	7.771	41	33857	19.742	ug/l	93
36) 1,2-Dichloroethane	8.671	62	64212	20.075	ug/l	100
37) Trichloroethene	9.347	130	49007	19.871	ug/l	90
38) Methylcyclohexane	9.600	83	66866	18.692	ug/l	99
39) 1,2-Dichloropropane	9.612	63	48649	19.989	ug/l	94
40) Dibromomethane	9.706	93	33013	20.283	ug/l	94
41) Bromodichloromethane	9.888	83	69542	20.190	ug/l	98
42) Vinyl Acetate	6.600	43	534061	102.547	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	62606	21.043	ug/l	96
44) Isopropyl Acetate	8.682	43	116785	20.682	ug/l	100
45) 1,4-Dioxane	9.694	88	20440	463.944	ug/l	95
46) Methyl methacrylate	9.677	41	50176	19.264	ug/l	99
47) n-amyl Acetate	12.488	43	94321	19.598	ug/l	97
48) t-1,3-Dichloropropene	10.835	75	75178	19.523	ug/l	99
49) cis-1,3-Dichloropropene	10.312	75	80143	19.736	ug/l	93
50) 1,1,2-Trichloroethane	11.012	97	47746	21.002	ug/l	96
51) Ethyl methacrylate	10.871	69	78180	19.745	ug/l	93
52) 1,3-Dichloropropane	11.159	76	82559	20.547	ug/l	99
53) Dibromochloromethane	11.353	129	51617	20.220	ug/l	100
54) 1,2-Dibromoethane	11.465	107	47987	20.760	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	166983	89.701	ug/l	98
56) Bromoform	12.576	173	34499	20.825	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	322848	101.759	ug/l	98
59) 2-Hexanone	11.194	43	239597	102.478	ug/l	98
61) Tetrachloroethene	11.100	164	50559	20.219	ug/l	94
62) Toluene	10.629	91	220605	20.102	ug/l	99
64) Chlorobenzene	11.888	112	139913	20.461	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	47376	20.721	ug/l	100
66) Ethyl Benzene	11.959	91	242809	19.656	ug/l	100
67) m/p-Xylenes	12.071	106	188761	40.274	ug/l	99
68) o-Xylene	12.394	106	94158	20.518	ug/l	95
69) Styrene	12.406	104	155311	19.967	ug/l	99
70) Isopropylbenzene	12.694	105	226286	19.753	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	68752	22.793	ug/l	98
72) 1,2,3-Trichloropropane	12.988	75	57084m	21.707	ug/l	
73) Bromobenzene	12.976	156	54742	20.786	ug/l	99
74) n-propylbenzene	13.035	91	265200	19.482	ug/l	99
75) 2-Chlorotoluene	13.123	91	168942	19.881	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	184307	19.608	ug/l	98
77) t-1,4-Dichloro-2-butene	12.729	75	25543	19.139	ug/l	91
78) 4-Chlorotoluene	13.217	91	168526	19.834	ug/l	98
79) tert-butylbenzene	13.435	119	159066	19.760	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	185703	19.345	ug/l	97
81) sec-Butylbenzene	13.612	105	223670	19.465	ug/l	98
82) p-Isopropyltoluene	13.723	119	183201	19.053	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	100661	20.219	ug/l	99
84) 1,4-Dichlorobenzene	13.806	146	97903	19.904	ug/l	99
85) n-Butylbenzene	14.053	91	157538	18.362	ug/l	99
86) Hexachloroethane	14.329	117	29188	18.564	ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	96035	20.273	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	11431	18.645	ug/l	95
89) 1,2,4-Trichlorobenzene	15.835	180	41402	19.176	ug/l	99
90) Hexachlorobutadiene	15.494	225	17065	19.623	ug/l	97
91) Naphthalene	15.635	128	141682	18.330	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	41402	19.176	ug/l	99

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

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