

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050725\
 Data File : VN086536.D
 Acq On : 07 May 2025 15:53
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/08/2025
 Supervised By : Mahesh Dadoda 05/08/2025

Quant Time: May 08 03:26:36 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	7.812	128	45671	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	269450	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	245281	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	122695	27.865	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	92.867%		
60) 4-Bromofluorobenzene	12.847	95	141224	29.295	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.633%		
63) Toluene-d8	10.565	98	399527	29.608	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.700%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	70546	22.374	ug/l	98
3) Chloromethane	2.359	50	75746	16.912	ug/l	97
4) Vinyl Chloride	2.512	62	82046	19.126	ug/l	98
5) Bromomethane	2.959	94	42825	19.122	ug/l	95
6) Chloroethane	3.124	64	54148	18.934	ug/l	99
7) Trichlorofluoromethane	3.501	101	115712	22.852	ug/l	93
8) Diethyl Ether	3.959	74	45565	21.318	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.371	101	69762	22.411	ug/l	99
10) 1,1-Dichloroethene	4.336	96	67254	21.108	ug/l	95
11) Methyl Iodide	4.589	142	71610	19.209	ug/l	99
12) Methyl Acetate	5.024	43	81112	17.961	ug/l	99
13) Acrolein	4.183	56	17090	69.125	ug/l	98
14) Acrylonitrile	5.712	53	161046	95.816	ug/l	98
15) Acetone	4.418	58	42135	90.976	ug/l	93
16) Carbon Disulfide	4.712	76	185301	22.071	ug/l	98
17) Allyl chloride	5.018	41	96007	18.845	ug/l	95
18) Methylene Chloride	5.277	84	76724	21.145	ug/l	90
19) trans-1,2-Dichloroethene	5.783	96	71775	21.135	ug/l	96
20) Diisopropyl ether	6.671	45	228405	18.856	ug/l	97
21) 1,1-Dichloroethane	6.565	63	133925	20.198	ug/l	97
22) cis-1,2-Dichloroethene	7.483	96	89667	21.116	ug/l	92
23) tert-Butyl Alcohol	5.518	59	64243	98.668	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	248786	21.134	ug/l	97
25) Chloroform	7.965	83	139178	20.740	ug/l	95
26) Cyclohexane	8.253	56	111715	19.082	ug/l #	94
29) 1,1-Dichloropropene	8.365	75	98398	20.715	ug/l	98
30) 2-Butanone	7.477	43	219204	95.075	ug/l	97
31) 2,2-Dichloropropane	7.483	77	125447	20.544	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	123160	21.697	ug/l	97
33) Carbon Tetrachloride	8.359	117	103762	22.205	ug/l	99
34) Benzene	8.600	78	314907	20.843	ug/l	96
35) Methacrylonitrile	7.777	41	48936	18.607	ug/l	93
36) 1,2-Dichloroethane	8.671	62	104349	21.273	ug/l #	91
37) Trichloroethene	9.347	130	82158	21.722	ug/l	86
38) Methylcyclohexane	9.600	83	115690	21.088	ug/l	97
39) 1,2-Dichloropropane	9.618	63	73829	19.780	ug/l	96
40) Dibromomethane	9.706	93	52982	21.226	ug/l	93
41) Bromodichloromethane	9.882	83	111237	21.059	ug/l	100
42) Vinyl Acetate	6.600	43	830650	104.003	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	91218	19.992	ug/l	100
44) Isopropyl Acetate	8.683	43	170639	19.705	ug/l	99
45) 1,4-Dioxane	9.688	88	28148	416.606	ug/l	90
46) Methyl methacrylate	9.677	41	76859	19.241	ug/l	97
47) n-amyl Acetate	12.488	43	146946	19.909	ug/l	98
48) t-1,3-Dichloropropene	10.835	75	118776	20.113	ug/l	97
49) cis-1,3-Dichloropropene	10.312	75	126120	20.252	ug/l	96
50) 1,1,2-Trichloroethane	11.012	97	74532	21.377	ug/l	98
51) Ethyl methacrylate	10.871	69	123293	20.305	ug/l	94
52) 1,3-Dichloropropane	11.159	76	128009	20.774	ug/l	99
53) Dibromochloromethane	11.353	129	85947	21.954	ug/l	99
54) 1,2-Dibromoethane	11.465	107	76184	21.491	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	258066	90.396	ug/l	97
56) Bromoform	12.576	173	55639	21.901	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	471371	99.308	ug/l	98
59) 2-Hexanone	11.194	43	342711	97.978	ug/l	97
61) Tetrachloroethene	11.100	164	80729	21.579	ug/l	96
62) Toluene	10.630	91	349956	21.315	ug/l	99
64) Chlorobenzene	11.888	112	224612	21.956	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	76752	22.438	ug/l	100
66) Ethyl Benzene	11.959	91	387294	20.957	ug/l	99
67) m/p-Xylenes	12.065	106	298641	42.590	ug/l	100
68) o-Xylene	12.394	106	148356	21.609	ug/l	95
69) Styrene	12.406	104	247323	21.253	ug/l	99
70) Isopropylbenzene	12.694	105	364883	21.291	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	101227	22.432	ug/l	98
72) 1,2,3-Trichloropropane	12.988	75	97390m	24.754	ug/l	
73) Bromobenzene	12.976	156	89625	22.747	ug/l	90
74) n-propylbenzene	13.035	91	424532	20.846	ug/l	97
75) 2-Chlorotoluene	13.123	91	264494	20.805	ug/l	97
76) 1,3,5-Trimethylbenzene	13.171	105	301767	21.459	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	35809	17.935	ug/l	93
78) 4-Chlorotoluene	13.218	91	264581	20.814	ug/l	97
79) tert-butylbenzene	13.435	119	264877	21.994	ug/l	97
80) 1,2,4-Trimethylbenzene	13.476	105	304730	21.219	ug/l	98
81) sec-Butylbenzene	13.612	105	373228	21.710	ug/l	98
82) p-Isopropyltoluene	13.723	119	312871	21.749	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	162060	21.758	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	160581	21.821	ug/l	98
85) n-Butylbenzene	14.053	91	269099	20.965	ug/l	98
86) Hexachloroethane	14.329	117	48407	20.579	ug/l	97
87) 1,2-Dichlorobenzene	14.100	146	154437	21.792	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	18302	19.953	ug/l	86
89) 1,2,4-Trichlorobenzene	15.835	180	74176	22.965	ug/l	99
90) Hexachlorobutadiene	15.500	225	30753	23.637	ug/l	96
91) Naphthalene	15.635	128	249135	21.544	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	74176	22.965	ug/l	99

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

