

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072325\
 Data File : VN087405.D
 Acq On : 23 Jul 2025 14:36
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 05:05:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 24 05:03:30 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.794	128	27375	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	136109	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	123438	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	67656	29.865	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.533%		
60) 4-Bromofluorobenzene	12.829	95	56143	27.277	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	90.933%		
63) Toluene-d8	10.547	98	171655	30.204	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.667%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	7531	4.694	ug/l	92
3) Chloromethane	2.383	50	7749	4.784	ug/l	97
4) Vinyl Chloride	2.536	62	8623	4.761	ug/l	95
5) Bromomethane	2.977	94	6940	6.717	ug/l	98
6) Chloroethane	3.136	64	7112	5.107	ug/l #	87
7) Trichlorofluoromethane	3.506	101	16080	5.202	ug/l	86
8) Diethyl Ether	3.965	74	6611m	5.490	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.377	101	9286m	5.803	ug/l	
10) 1,1-Dichloroethene	4.342	96	10227m	6.166	ug/l	
11) Methyl Iodide	4.577	142	4914m	4.183	ug/l	
12) Methyl Acetate	5.018	43	11476m	5.333	ug/l	
13) Acrolein	4.171	56	12123m	32.630	ug/l	
14) Acrylonitrile	5.712	53	24267	24.805	ug/l #	88
15) Acetone	4.424	58	10916	31.932	ug/l	69
16) Carbon Disulfide	4.700	76	24666	5.785	ug/l	99
17) Allyl chloride	5.006	41	11240m	4.965	ug/l	
18) Methylene Chloride	5.265	84	9378m	5.569	ug/l	
19) trans-1,2-Dichloroethene	5.771	96	8907	5.530	ug/l #	89
20) Diisopropyl ether	6.659	45	25822m	4.515	ug/l	
21) 1,1-Dichloroethane	6.547	63	15838	5.053	ug/l #	87
22) cis-1,2-Dichloroethene	7.471	96	9652	5.031	ug/l	98
23) tert-Butyl Alcohol	5.512	59	9831m	29.508	ug/l	
24) Methyl tert-Butyl Ether	5.777	73	25665	4.856	ug/l #	57
25) Chloroform	7.947	83	18204	5.373	ug/l	100
26) Cyclohexane	8.236	56	10643	4.575	ug/l #	98
29) 1,1-Dichloropropene	8.353	75	10628	4.618	ug/l	85
30) 2-Butanone	7.471	43	36231	23.402	ug/l #	97
31) 2,2-Dichloropropane	7.477	77	14809	4.900	ug/l #	73
32) 1,1,1-Trichloroethane	8.153	97	15107	5.051	ug/l #	85
33) Carbon Tetrachloride	8.341	117	12730	4.847	ug/l	97
34) Benzene	8.594	78	35613	4.856	ug/l #	88
35) Methacrylonitrile	7.771	41	6731m	4.138	ug/l	
36) 1,2-Dichloroethane	8.659	62	13911	4.741	ug/l #	92
37) Trichloroethene	9.330	130	8776	5.115	ug/l	96
38) Methylcyclohexane	9.583	83	11257	4.728	ug/l	94
39) 1,2-Dichloropropane	9.606	63	8995	4.881	ug/l	99
40) Dibromomethane	9.688	93	6931	4.765	ug/l	98
41) Bromodichloromethane	9.865	83	13849	4.809	ug/l #	94
42) Vinyl Acetate	6.589	43	106258	20.042	ug/l #	90

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	13753	4.355	ug/l #	87
44) Isopropyl Acetate	8.677	43	21882	4.449	ug/l	99
45) 1,4-Dioxane	9.683	88	2724	90.520	ug/l #	57
46) Methyl methacrylate	9.665	41	9609	4.254	ug/l	97
47) n-amyl Acetate	12.700	43	11831m	3.942	ug/l	
48) t-1,3-Dichloropropene	10.818	75	13398	4.419	ug/l	98
49) cis-1,3-Dichloropropene	10.288	75	13206	4.308	ug/l	95
50) 1,1,2-Trichloroethane	11.000	97	8953	4.802	ug/l	94
51) Ethyl methacrylate	10.853	69	9910	3.519	ug/l	90
52) 1,3-Dichloropropane	11.147	76	15380	4.864	ug/l	98
53) Dibromochloromethane	11.335	129	9723	4.439	ug/l	98
54) 1,2-Dibromoethane	11.447	107	8336	4.271	ug/l	89
55) 2-Chloroethyl vinyl ether	10.141	63	29235	19.333	ug/l	99
56) Bromoform	12.559	173	6689	4.325	ug/l #	96
58) 4-Methyl-2-Pentanone	10.424	43	65261	22.064	ug/l	97
59) 2-Hexanone	11.182	43	36744	18.263	ug/l	98
61) Tetrachloroethene	11.082	164	7170	5.178	ug/l #	85
62) Toluene	10.606	91	36845	4.951	ug/l	98
64) Chlorobenzene	11.871	112	23888	5.075	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.947	131	8654m	4.999	ug/l	
66) Ethyl Benzene	11.941	91	36371	4.579	ug/l	95
67) m/p-Xylenes	12.047	106	26721	8.419	ug/l	100
68) o-Xylene	12.382	106	13633	4.581	ug/l	93
69) Styrene	12.394	104	21322	4.075	ug/l	98
70) Isopropylbenzene	12.676	105	31587	4.142	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.918	83	12713	4.664	ug/l	94
72) 1,2,3-Trichloropropane	12.971	75	11337m	4.678	ug/l	
73) Bromobenzene	12.959	156	9061	4.554	ug/l	97
74) n-propylbenzene	13.012	91	41747	4.319	ug/l	100
75) 2-Chlorotoluene	13.106	91	25240	4.365	ug/l	96
76) 1,3,5-Trimethylbenzene	13.153	105	27884	4.225	ug/l	99
77) t-1,4-Dichloro-2-butene	12.718	75	3641	3.852	ug/l	80
78) 4-Chlorotoluene	13.200	91	26870	4.375	ug/l	98
79) tert-butylbenzene	13.418	119	24143	4.339	ug/l	97
80) 1,2,4-Trimethylbenzene	13.465	105	27109	4.020	ug/l	99
81) sec-Butylbenzene	13.594	105	34397	4.238	ug/l	100
82) p-Isopropyltoluene	13.706	119	27900	4.014	ug/l	96
83) 1,3-Dichlorobenzene	13.712	146	18448	4.597	ug/l	99
84) 1,4-Dichlorobenzene	13.794	146	17982	4.534	ug/l	100
85) n-Butylbenzene	14.035	91	26667	4.200	ug/l	97
86) Hexachloroethane	14.306	117	6340	4.637	ug/l	99
87) 1,2-Dichlorobenzene	14.088	146	16980	4.461	ug/l	93
88) 1,2-Dibromo-3-Chloropr...	14.700	75	3275m	5.300	ug/l	
89) 1,2,4-Trichlorobenzene	15.817	180	9629	4.435	ug/l	98
90) Hexachlorobutadiene	15.470	225	4458	4.965	ug/l	92
91) Naphthalene	15.617	128	28503	3.987	ug/l #	89
92) 1,2,3-Trichlorobenzene	15.817	180	9629	4.435	ug/l	98

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

