

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
 Data File : VN088030.D
 Acq On : 08 Oct 2025 09:34
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :John
 Carlone

10/09/2025

Supervised By :Mahesh
 Dadoda

10/10/2025

Quant Time: Oct 09 02:00:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 09 01:59:51 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.800	128	70500	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	388491	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	345679	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	162371	29.577	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.600%
60) 4-Bromofluorobenzene	12.829	95	168531	29.574	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.567%
63) Toluene-d8	10.547	98	464668	30.170	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.567%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	17512	4.337	ug/l	91
3) Chloromethane	2.383	50	22534	4.922	ug/l	89
4) Vinyl Chloride	2.536	62	23730	4.971	ug/l	100
5) Bromomethane	2.977	94	12182	4.746	ug/l	89
6) Chloroethane	3.136	64	16801	5.336	ug/l	99
7) Trichlorofluoromethane	3.506	101	33130	5.104	ug/l	93
8) Diethyl Ether	3.965	74	15893	5.419	ug/l	56
9) 1,1,2-Trichlorotrifluo...	4.365	101	17744	5.106	ug/l	91
10) 1,1-Dichloroethene	4.336	96	20091	5.420	ug/l	87
11) Methyl Iodide	4.571	142	9178m	2.686	ug/l	
12) Methyl Acetate	5.018	43	31482m	5.370	ug/l	
13) Acrolein	4.171	56	26567	28.489	ug/l #	1
14) Acrylonitrile	5.706	53	74537	25.631	ug/l #	89
15) Acetone	4.418	58	24635m	28.837	ug/l	
16) Carbon Disulfide	4.700	76	60049	5.168	ug/l	97
17) Allyl chloride	5.018	41	38166m	5.456	ug/l	
18) Methylene Chloride	5.271	84	25710m	5.457	ug/l	
19) trans-1,2-Dichloroethene	5.777	96	22235	5.188	ug/l #	91
20) Diisopropyl ether	6.659	45	78511	4.930	ug/l	98
21) 1,1-Dichloroethane	6.553	63	42704	5.151	ug/l	96
22) cis-1,2-Dichloroethene	7.471	96	28117	5.241	ug/l	97
23) tert-Butyl Alcohol	5.524	59	32274	27.671	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	82482	5.155	ug/l	96
25) Chloroform	7.947	83	46137	5.393	ug/l	92
26) Cyclohexane	8.241	56	34857	5.075	ug/l #	98
29) 1,1-Dichloropropene	8.353	75	28652	5.145	ug/l	95
30) 2-Butanone	7.471	43	106757	25.994	ug/l	100
31) 2,2-Dichloropropane	7.471	77	39713m	5.527	ug/l	
32) 1,1,1-Trichloroethane	8.147	97	36518	5.248	ug/l	98
33) Carbon Tetrachloride	8.347	117	29564	5.072	ug/l	93
34) Benzene	8.583	78	96524	5.226	ug/l #	81
35) Methacrylonitrile	7.771	41	22614	5.236	ug/l	95
36) 1,2-Dichloroethane	8.659	62	33473	5.220	ug/l	98
37) Trichloroethene	9.335	130	23203	5.302	ug/l	98
38) Methylcyclohexane	9.583	83	36254	5.272	ug/l	97
39) 1,2-Dichloropropane	9.606	63	24526	5.296	ug/l	97
40) Dibromomethane	9.694	93	17510	5.194	ug/l	96
41) Bromodichloromethane	9.871	83	36971	5.370	ug/l #	97
42) Vinyl Acetate	6.594	43	347500	24.837	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	7.553	43	40587	5.141	ug/l	#	71
44) Isopropyl Acetate	8.677	43	63965	4.961	ug/l		97
45) 1,4-Dioxane	9.683	88	8538	99.555	ug/l	#	91
46) Methyl methacrylate	9.665	41	29344	5.167	ug/l		87
47) n-amyl Acetate	12.965	43	24408m	4.308	ug/l		
48) t-1,3-Dichloropropene	10.818	75	38023	4.966	ug/l		93
49) cis-1,3-Dichloropropene	10.294	75	40685	5.094	ug/l		90
50) 1,1,2-Trichloroethane	10.994	97	23673	5.302	ug/l	#	91
51) Ethyl methacrylate	10.859	69	33154	4.388	ug/l		94
52) 1,3-Dichloropropane	11.141	76	39602	5.084	ug/l		98
53) Dibromochloromethane	11.335	129	26900	5.040	ug/l		100
54) 1,2-Dibromoethane	11.453	107	24696	5.174	ug/l		97
55) 2-Chloroethyl vinyl ether	10.141	63	93982	23.044	ug/l		98
56) Bromoform	12.559	173	17392	4.820	ug/l		92
58) 4-Methyl-2-Pentanone	10.430	43	195537	25.289	ug/l		99
59) 2-Hexanone	11.182	43	103702	20.314	ug/l		99
61) Tetrachloroethene	11.088	164	18609	5.316	ug/l		94
62) Toluene	10.612	91	103446	5.276	ug/l		98
64) Chlorobenzene	11.871	112	64403	5.142	ug/l		92
65) 1,1,1,2-Tetrachloroethane	11.941	131	21997	5.096	ug/l		93
66) Ethyl Benzene	11.941	91	109599	5.140	ug/l		92
67) m/p-Xylenes	12.053	106	83946	10.213	ug/l		100
68) o-Xylene	12.376	106	42988	5.254	ug/l		98
69) Styrene	12.394	104	66556	4.917	ug/l		99
70) Isopropylbenzene	12.676	105	103205	5.146	ug/l		97
71) 1,1,2,2-Tetrachloroethane	12.918	83	35698	5.250	ug/l		100
72) 1,2,3-Trichloropropane	12.976	75	33421m	5.064	ug/l		
73) Bromobenzene	12.959	156	24839	5.068	ug/l		99
74) n-propylbenzene	13.018	91	120356	4.971	ug/l		100
75) 2-Chlorotoluene	13.106	91	74825	5.055	ug/l		98
76) 1,3,5-Trimethylbenzene	13.153	105	87631	5.144	ug/l		97
77) t-1,4-Dichloro-2-butene	12.723	75	11665m	4.776	ug/l		
78) 4-Chlorotoluene	13.206	91	72267	4.805	ug/l		100
79) tert-butylbenzene	13.418	119	74615	5.053	ug/l		97
80) 1,2,4-Trimethylbenzene	13.459	105	86692	5.084	ug/l		99
81) sec-Butylbenzene	13.594	105	106110	5.111	ug/l		100
82) p-Isopropyltoluene	13.712	119	91611	5.168	ug/l		98
83) 1,3-Dichlorobenzene	13.712	146	46688	5.062	ug/l		97
84) 1,4-Dichlorobenzene	13.794	146	49265	5.180	ug/l		99
85) n-Butylbenzene	14.035	91	82683	5.013	ug/l		99
86) Hexachloroethane	14.306	117	18772	5.286	ug/l		91
87) 1,2-Dichlorobenzene	14.088	146	47327	5.217	ug/l		98
88) 1,2-Dibromo-3-Chloropr...	14.694	75	7710	4.938	ug/l		95
89) 1,2,4-Trichlorobenzene	15.817	180	26899	4.978	ug/l		92
90) Hexachlorobutadiene	15.470	225	10187	5.417	ug/l		96
91) Naphthalene	15.617	128	97405	4.924	ug/l		98
92) 1,2,3-Trichlorobenzene	15.817	180	26899	4.978	ug/l		92

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

