

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072825\
 Data File : VN087425.D
 Acq On : 28 Jul 2025 11:54
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN072825

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

07/28/2025
 Supervised By :Mahesh
 Dadoda

Quant Time: Jul 28 13:25:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jul 28 11:35:47 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.800	128	84091	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	479566	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	422479	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	192219	29.892	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.633%
60) 4-Bromofluorobenzene	12.829	95	205393	29.605	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.700%
63) Toluene-d8	10.547	98	588887	30.352	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.167%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.148	85	104188	21.236	ug/l	97
3) Chloromethane	2.389	50	111922	21.489	ug/l	99
4) Vinyl Chloride	2.542	62	108475	20.586	ug/l	98
5) Bromomethane	2.983	94	51310	19.968	ug/l	92
6) Chloroethane	3.142	64	62290	20.958	ug/l	90
7) Trichlorofluoromethane	3.512	101	137165	20.690	ug/l	100
8) Diethyl Ether	3.965	74	58609	21.182	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	72143	19.948	ug/l	97
10) 1,1-Dichloroethene	4.336	96	76219	21.187	ug/l	95
11) Methyl Iodide	4.577	142	57213m	17.564	ug/l	
12) Methyl Acetate	5.018	43	162437	20.709	ug/l #	88
13) Acrolein	4.177	56	75010	117.257	ug/l	97
14) Acrylonitrile	5.712	53	345069	101.453	ug/l	99
15) Acetone	4.418	58	76175	96.630	ug/l	81
16) Carbon Disulfide	4.700	76	264903	20.720	ug/l	95
17) Allyl chloride	5.018	41	169606	20.234	ug/l	99
18) Methylene Chloride	5.259	84	107545	19.857	ug/l	93
19) trans-1,2-Dichloroethene	5.771	96	99817	19.531	ug/l	98
20) Diisopropyl ether	6.659	45	391071	20.506	ug/l	95
21) 1,1-Dichloroethane	6.553	63	197638	20.447	ug/l	99
22) cis-1,2-Dichloroethene	7.477	96	125168	20.151	ug/l	99
23) tert-Butyl Alcohol	5.530	59	135715	102.944	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	364737	20.435	ug/l	98
25) Chloroform	7.953	83	194885	19.971	ug/l	98
26) Cyclohexane	8.241	56	175170	19.622	ug/l #	98
29) 1,1-Dichloropropene	8.359	75	139428	20.480	ug/l	98
30) 2-Butanone	7.471	43	499815	101.332	ug/l	99
31) 2,2-Dichloropropane	7.477	77	160394	18.908	ug/l	99
32) 1,1,1-Trichloroethane	8.153	97	163557	19.987	ug/l	99
33) Carbon Tetrachloride	8.347	117	137918	20.440	ug/l	97
34) Benzene	8.588	78	444298	19.953	ug/l	99
35) Methacrylonitrile	7.765	41	108783	19.253	ug/l	96
36) 1,2-Dichloroethane	8.659	62	148407	20.027	ug/l #	95
37) Trichloroethene	9.335	130	101986	20.065	ug/l	91
38) Methylcyclohexane	9.582	83	172306	19.624	ug/l	99
39) 1,2-Dichloropropane	9.606	63	114391	20.406	ug/l	97
40) Dibromomethane	9.694	93	79564	20.008	ug/l	99
41) Bromodichloromethane	9.871	83	159528	19.932	ug/l	100
42) Vinyl Acetate	6.594	43	1647099	99.228	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	7.553	43	198786	19.659	ug/l	#	73
44) Isopropyl Acetate	8.677	43	328347	20.327	ug/l		99
45) 1,4-Dioxane	9.682	88	42264	412.361	ug/l	#	92
46) Methyl methacrylate	9.665	41	146072	19.421	ug/l		97
47) n-amyl Acetate	12.535	43	134040m	20.127	ug/l		
48) t-1,3-Dichloropropene	10.818	75	179080	19.876	ug/l		100
49) cis-1,3-Dichloropropene	10.294	75	187017	19.764	ug/l		99
50) 1,1,2-Trichloroethane	11.000	97	103763	19.602	ug/l		97
51) Ethyl methacrylate	10.859	69	188347	19.648	ug/l		99
52) 1,3-Dichloropropane	11.141	76	186991	20.440	ug/l		97
53) Dibromochloromethane	11.341	129	122186	20.124	ug/l		98
54) 1,2-Dibromoethane	11.447	107	113325	20.347	ug/l		99
55) 2-Chloroethyl vinyl ether	10.141	63	532083	134.997	ug/l		100
56) Bromoform	12.559	173	79829	18.736	ug/l		100
58) 4-Methyl-2-Pentanone	10.429	43	1001381	105.229	ug/l		100
59) 2-Hexanone	11.182	43	661366	100.286	ug/l		100
61) Tetrachloroethene	11.082	164	80787	20.141	ug/l		96
62) Toluene	10.612	91	484125	20.305	ug/l		99
64) Chlorobenzene	11.871	112	294136	20.060	ug/l		98
65) 1,1,1,2-Tetrachloroethane	11.941	131	98384	19.787	ug/l		97
66) Ethyl Benzene	11.947	91	528930	20.304	ug/l		97
67) m/p-Xylenes	12.053	106	397076	40.681	ug/l		99
68) o-Xylene	12.376	106	194519	20.365	ug/l		98
69) Styrene	12.394	104	325533	19.925	ug/l		98
70) Isopropylbenzene	12.676	105	493913	20.135	ug/l		100
71) 1,1,2,2-Tetrachloroethane	12.918	83	171651	20.522	ug/l		97
72) 1,2,3-Trichloropropane	12.976	75	142149m	18.683	ug/l		
73) Bromobenzene	12.959	156	114772	20.138	ug/l		98
74) n-propylbenzene	13.018	91	608183	20.081	ug/l		100
75) 2-Chlorotoluene	13.106	91	363593	20.229	ug/l		100
76) 1,3,5-Trimethylbenzene	13.153	105	412100	20.279	ug/l		99
77) t-1,4-Dichloro-2-butene	12.723	75	57594	17.839	ug/l		99
78) 4-Chlorotoluene	13.200	91	371100	20.106	ug/l		98
79) tert-butylbenzene	13.418	119	353799	20.153	ug/l		98
80) 1,2,4-Trimethylbenzene	13.465	105	407528	20.210	ug/l		98
81) sec-Butylbenzene	13.594	105	530069	20.327	ug/l		100
82) p-Isopropyltoluene	13.706	119	434188	20.514	ug/l		99
83) 1,3-Dichlorobenzene	13.712	146	218956	20.300	ug/l		99
84) 1,4-Dichlorobenzene	13.788	146	226886	20.116	ug/l		99
85) n-Butylbenzene	14.035	91	433599	20.341	ug/l		99
86) Hexachloroethane	14.312	117	87580	20.374	ug/l		96
87) 1,2-Dichlorobenzene	14.088	146	211678	20.189	ug/l		97
88) 1,2-Dibromo-3-Chloropr...	14.700	75	36571	18.943	ug/l		97
89) 1,2,4-Trichlorobenzene	15.811	180	128222	20.050	ug/l		99
90) Hexachlorobutadiene	15.476	225	48127	19.766	ug/l		98
91) Naphthalene	15.617	128	493682	20.425	ug/l		99
92) 1,2,3-Trichlorobenzene	15.811	180	128222	20.050	ug/l		99

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

