

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
 Data File : VN088036.D
 Acq On : 08 Oct 2025 12:52
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN100825

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/09/2025
 Supervised By : Mahesh Dadoda 10/10/2025

Quant Time: Oct 09 02:40:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 09 02:36:32 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.794	128	71678	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	399537	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	349709	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	167135	29.945	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.800%		
60) 4-Bromofluorobenzene	12.829	95	172458	29.914	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.700%		
63) Toluene-d8	10.547	98	468600	30.075	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.267%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	82744	20.154	ug/l	95
3) Chloromethane	2.383	50	93360	20.058	ug/l	98
4) Vinyl Chloride	2.536	62	95282	19.632	ug/l	96
5) Bromomethane	2.977	94	57202	21.918	ug/l	99
6) Chloroethane	3.136	64	60278	18.828	ug/l	97
7) Trichlorofluoromethane	3.512	101	127893	19.378	ug/l	99
8) Diethyl Ether	3.965	74	55257	18.530	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.359	101	69948	19.799	ug/l	97
10) 1,1-Dichloroethene	4.336	96	73588	19.526	ug/l	98
11) Methyl Iodide	4.583	142	59897	17.244	ug/l	93
12) Methyl Acetate	5.012	43	112275	18.325	ug/l #	88
13) Acrolein	4.171	56	93925	99.064	ug/l #	7
14) Acrylonitrile	5.706	53	277894	93.988	ug/l	100
15) Acetone	4.430	58	77464m	89.462	ug/l	
16) Carbon Disulfide	4.706	76	233680	19.779	ug/l	97
17) Allyl chloride	5.006	41	134223	18.874	ug/l	95
18) Methylene Chloride	5.259	84	91812	19.167	ug/l	94
19) trans-1,2-Dichloroethene	5.777	96	84343	19.357	ug/l	94
20) Diisopropyl ether	6.659	45	308391	19.048	ug/l #	97
21) 1,1-Dichloroethane	6.547	63	160073	18.992	ug/l	97
22) cis-1,2-Dichloroethene	7.471	96	103897	19.048	ug/l	98
23) tert-Butyl Alcohol	5.518	59	111186	93.763	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	305027	18.751	ug/l	100
25) Chloroform	7.953	83	166302	19.120	ug/l	94
26) Cyclohexane	8.241	56	135705	19.433	ug/l #	97
29) 1,1-Dichloropropene	8.353	75	111713	19.507	ug/l	98
30) 2-Butanone	7.471	43	383183	90.720	ug/l	100
31) 2,2-Dichloropropane	7.477	77	136899	18.552	ug/l	98
32) 1,1,1-Trichloroethane	8.153	97	138868	19.406	ug/l	100
33) Carbon Tetrachloride	8.341	117	117258	19.562	ug/l	93
34) Benzene	8.583	78	362455	19.081	ug/l	97
35) Methacrylonitrile	7.759	41	88280	19.875	ug/l	95
36) 1,2-Dichloroethane	8.653	62	127793	19.378	ug/l	100
37) Trichloroethene	9.336	130	86434	19.205	ug/l	95
38) Methylcyclohexane	9.583	83	139333	19.701	ug/l	99
39) 1,2-Dichloropropane	9.600	63	88633	18.608	ug/l	98
40) Dibromomethane	9.688	93	65564	18.910	ug/l	97
41) Bromodichloromethane	9.871	83	135709	19.165	ug/l	98
42) Vinyl Acetate	6.589	43	1445002	100.422	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
 Data File : VN088036.D
 Acq On : 08 Oct 2025 12:52
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN100825

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/09/2025
 Supervised By : Mahesh Dadoda 10/10/2025

Quant Time: Oct 09 02:40:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 09 02:36:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	156744	19.305	ug/l	96
44) Isopropyl Acetate	8.671	43	246443	18.583	ug/l	93
45) 1,4-Dioxane	9.677	88	36239	410.874	ug/l	92
46) Methyl methacrylate	9.665	41	109997	18.835	ug/l	98
47) n-amyl Acetate	12.618	43	128465m	20.438	ug/l	
48) t-1,3-Dichloropropene	10.818	75	145368	18.462	ug/l	96
49) cis-1,3-Dichloropropene	10.288	75	153293	18.663	ug/l	95
50) 1,1,2-Trichloroethane	10.994	97	85732	18.672	ug/l	97
51) Ethyl methacrylate	10.859	69	146337	18.832	ug/l	97
52) 1,3-Dichloropropane	11.141	76	152014	18.977	ug/l	100
53) Dibromochloromethane	11.335	129	103530	18.861	ug/l	99
54) 1,2-Dibromoethane	11.447	107	91960	18.734	ug/l	100
55) 2-Chloroethyl vinyl ether	10.141	63	416502	99.302	ug/l	100
56) Bromoform	12.559	173	68875	18.560	ug/l	99
58) 4-Methyl-2-Pentanone	10.424	43	758466	96.964	ug/l	99
59) 2-Hexanone	11.177	43	483068	93.537	ug/l	99
61) Tetrachloroethene	11.082	164	71033	20.058	ug/l	97
62) Toluene	10.606	91	386375	19.478	ug/l	98
64) Chlorobenzene	11.871	112	244551	19.301	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.941	131	85260	19.526	ug/l	97
66) Ethyl Benzene	11.941	91	429071	19.892	ug/l	97
67) m/p-Xylenes	12.047	106	324024	38.967	ug/l	99
68) o-Xylene	12.377	106	165214	19.959	ug/l	99
69) Styrene	12.388	104	265810	19.412	ug/l	97
70) Isopropylbenzene	12.676	105	398248	19.630	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.918	83	131239	19.080	ug/l	99
72) 1,2,3-Trichloropropane	12.971	75	127895m	20.021	ug/l	
73) Bromobenzene	12.959	156	95991	19.358	ug/l	99
74) n-propylbenzene	13.012	91	477849	19.511	ug/l	100
75) 2-Chlorotoluene	13.106	91	293367	19.590	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	338338	19.632	ug/l	99
77) t-1,4-Dichloro-2-butene	12.718	75	45124	17.725	ug/l	92
78) 4-Chlorotoluene	13.200	91	304451	20.011	ug/l	96
79) tert-butylbenzene	13.418	119	300216	20.095	ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	334037	19.362	ug/l	99
81) sec-Butylbenzene	13.594	105	420608	20.024	ug/l	99
82) p-Isopropyltoluene	13.706	119	357698	19.946	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	182636	19.575	ug/l	99
84) 1,4-Dichlorobenzene	13.794	146	189713	19.717	ug/l	97
85) n-Butylbenzene	14.035	91	325855	19.531	ug/l	98
86) Hexachloroethane	14.312	117	68552	19.082	ug/l	97
87) 1,2-Dichlorobenzene	14.082	146	180967	19.720	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.700	75	29181	18.472	ug/l	95
89) 1,2,4-Trichlorobenzene	15.812	180	104369	19.094	ug/l	97
90) Hexachlorobutadiene	15.476	225	37798	19.868	ug/l	96
91) Naphthalene	15.612	128	381643	19.071	ug/l	100
92) 1,2,3-Trichlorobenzene	15.812	180	104369	19.094	ug/l	97

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
 Data File : VN088036.D
 Acq On : 08 Oct 2025 12:52
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

ICVVN100825

Manual Integrations

APPROVED

Reviewed By : John Carlone 10/09/2025

Supervised By : Mahesh Dadoda 10/10/2025

Quant Time: Oct 09 02:40:57 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Thu Oct 09 02:36:32 2025

Response via : Initial Calibration

