

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052925\
 Data File : VN086806.D
 Acq On : 29 May 2025 10:56
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Quant Time: May 30 01:56:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N052925W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 30 01:54:37 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 05/30/2025
 Supervised By : Mahesh Dadoda 05/30/2025

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

Internal Standards						
1) Bromochloromethane	7.812	128	37241	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	212389	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	186195	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	78023	30.493	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.633%			
60) 4-Bromofluorobenzene	12.847	95	82926	28.367	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 94.567%			
63) Toluene-d8	10.565	98	260807	30.518	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.733%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	11327	4.478	ug/l	96
3) Chloromethane	2.359	50	16496	5.058	ug/l	98
4) Vinyl Chloride	2.518	62	14616	4.870	ug/l #	88
5) Bromomethane	2.959	94	9132	5.743	ug/l	98
6) Chloroethane	3.118	64	9356	5.097	ug/l	95
7) Trichlorofluoromethane	3.500	101	17657	5.023	ug/l	98
8) Diethyl Ether	3.959	74	7383	5.035	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	10627	4.933	ug/l	98
10) 1,1-Dichloroethene	4.336	96	10757	4.898	ug/l	95
11) Methyl Iodide	4.583	142	12515	4.834	ug/l	92
12) Methyl Acetate	5.024	43	11690m	4.806	ug/l	
13) Acrolein	4.171	56	5375m	21.245	ug/l	
14) Acrylonitrile	5.718	53	27855	24.541	ug/l	96
15) Acetone	4.424	58	7319	25.468	ug/l	94
16) Carbon Disulfide	4.712	76	31360	4.892	ug/l	97
17) Allyl chloride	5.018	41	16252	4.981	ug/l	95
18) Methylene Chloride	5.271	84	13664m	5.357	ug/l	
19) trans-1,2-Dichloroethene	5.789	96	11161	4.856	ug/l #	92
20) Diisopropyl ether	6.671	45	35354	4.920	ug/l	96
21) 1,1-Dichloroethane	6.565	63	21896	5.049	ug/l	99
22) cis-1,2-Dichloroethene	7.483	96	13781	4.951	ug/l	98
23) tert-Butyl Alcohol	5.506	59	8433m	23.137	ug/l	
24) Methyl tert-Butyl Ether	5.789	73	34909	4.823	ug/l #	80
25) Chloroform	7.959	83	22264	5.245	ug/l	94
26) Cyclohexane	8.253	56	18316	4.880	ug/l #	100
29) 1,1-Dichloropropene	8.365	75	15092	4.833	ug/l	97
30) 2-Butanone	7.477	43	33735	24.656	ug/l	99
31) 2,2-Dichloropropane	7.483	77	19090	5.179	ug/l	99
32) 1,1,1-Trichloroethane	8.159	97	18294	5.054	ug/l	97
33) Carbon Tetrachloride	8.359	117	15157	4.898	ug/l	94
34) Benzene	8.600	78	50453	4.966	ug/l #	89
35) Methacrylonitrile	7.777	41	7833	4.984	ug/l	90
36) 1,2-Dichloroethane	8.671	62	15344	5.154	ug/l	98
37) Trichloroethene	9.347	130	14868	5.276	ug/l	98
38) Methylcyclohexane	9.594	83	15716	4.536	ug/l	96
39) 1,2-Dichloropropane	9.618	63	12174	4.977	ug/l	98
40) Dibromomethane	9.706	93	7950	4.969	ug/l	97
41) Bromodichloromethane	9.882	83	16543	4.940	ug/l	97
42) Vinyl Acetate	6.600	43	87685	21.986	ug/l	100

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MSVOA_N

ClientSampleId :

VSTDICC005

Manual Integrations**APPROVED**

Reviewed By :John Carlone 05/30/2025

Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:56:47 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N052925W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Fri May 30 01:54:37 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	14558	5.200	ug/l	98
44) Isopropyl Acetate	8.682	43	23479	4.889	ug/l	100
45) 1,4-Dioxane	9.694	88	4094	95.906	ug/l	92
46) Methyl methacrylate	9.671	41	10357	4.677	ug/l	80
47) n-amyl Acetate	12.494	43	16344	4.239	ug/l	100
48) t-1,3-Dichloropropene	10.829	75	16607	4.634	ug/l	97
49) cis-1,3-Dichloropropene	10.312	75	19230	4.878	ug/l #	91
50) 1,1,2-Trichloroethane	11.012	97	11168	4.956	ug/l	91
51) Ethyl methacrylate	10.871	69	15947	4.370	ug/l	96
52) 1,3-Dichloropropane	11.159	76	20150	5.039	ug/l	99
53) Dibromochloromethane	11.359	129	12418	4.877	ug/l	96
54) 1,2-Dibromoethane	11.465	107	11351	4.928	ug/l	96
55) 2-Chloroethyl vinyl ether	10.159	63	38709	22.097	ug/l	99
56) Bromoform	12.570	173	7209	4.493	ug/l #	98
58) 4-Methyl-2-Pentanone	10.441	43	67317	24.639	ug/l	99
59) 2-Hexanone	11.188	43	46351	23.685	ug/l	97
61) Tetrachloroethene	11.100	164	16293	5.206	ug/l	93
62) Toluene	10.629	91	52880	5.043	ug/l	99
64) Chlorobenzene	11.888	112	34057	5.093	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.959	131	11084	5.045	ug/l	98
66) Ethyl Benzene	11.959	91	52316	4.612	ug/l	93
67) m/p-Xylenes	12.065	106	41153	9.246	ug/l	98
68) o-Xylene	12.394	106	19419	4.502	ug/l	97
69) Styrene	12.406	104	31406	4.370	ug/l	97
70) Isopropylbenzene	12.694	105	46104	4.494	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	11178	4.583	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	14250m	4.742	ug/l	
73) Bromobenzene	12.976	156	12029	4.717	ug/l	95
74) n-propylbenzene	13.029	91	54016	4.445	ug/l	100
75) 2-Chlorotoluene	13.123	91	36955	4.738	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	37086	4.345	ug/l	99
77) t-1,4-Dichloro-2-butene	12.729	75	5247	4.485	ug/l	95
78) 4-Chlorotoluene	13.217	91	35412	4.583	ug/l	99
79) tert-butylbenzene	13.435	119	33215	4.501	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	36547	4.266	ug/l	98
81) sec-Butylbenzene	13.612	105	43627	4.340	ug/l	97
82) p-Isopropyltoluene	13.723	119	34479	4.085	ug/l	98
83) 1,3-Dichlorobenzene	13.729	146	21406	4.576	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	21299	4.575	ug/l	98
85) n-Butylbenzene	14.053	91	28928	4.093	ug/l	99
86) Hexachloroethane	14.335	117	6470	4.497	ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	21361	4.733	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.717	75	2265	4.409	ug/l	94
89) 1,2,4-Trichlorobenzene	15.835	180	8176	4.329	ug/l	97
90) Hexachlorobutadiene	15.500	225	4171	5.153	ug/l	96
91) Naphthalene	15.641	128	26010	3.947	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	8176	4.329	ug/l	97

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

