

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072425\
 Data File : VN087409.D
 Acq On : 24 Jul 2025 09:50
 Operator : JC\MD
 Sample : VN0724WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0724WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/25/2025
 Supervised By : Mahesh Dadoda 07/25/2025

Quant Time: Jul 25 04:51:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 24 05:11:26 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.800	128	28734	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	140533	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	134021	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	71801	30.299	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.000%			
60) 4-Bromofluorobenzene	12.829	95	62708	28.045	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 93.500%			
63) Toluene-d8	10.547	98	179667	29.478	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.267%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	33446	19.023	ug/l	92
3) Chloromethane	2.383	50	31363m	17.959	ug/l	
4) Vinyl Chloride	2.542	62	36335	18.879	ug/l	96
5) Bromomethane	2.989	94	24665	20.710	ug/l #	80
6) Chloroethane	3.142	64	28476	19.252	ug/l	91
7) Trichlorofluoromethane	3.512	101	63794	19.490	ug/l	91
8) Diethyl Ether	3.959	74	25533	19.597	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	33608	19.375	ug/l	94
10) 1,1-Dichloroethene	4.342	96	34193m	18.987	ug/l	
11) Methyl Iodide	4.577	142	22841m	17.387	ug/l	
12) Methyl Acetate	5.018	43	44153	18.849	ug/l #	90
13) Acrolein	4.177	56	51418	120.743	ug/l	98
14) Acrylonitrile	5.706	53	99955	93.439	ug/l	96
15) Acetone	4.424	58	42180	111.684	ug/l	94
16) Carbon Disulfide	4.695	76	85712	18.429	ug/l	99
17) Allyl chloride	5.006	41	46859m	18.994	ug/l	
18) Methylene Chloride	5.265	84	34275	18.805	ug/l #	89
19) trans-1,2-Dichloroethene	5.777	96	31831	17.998	ug/l	97
20) Diisopropyl ether	6.659	45	108184	17.342	ug/l	92
21) 1,1-Dichloroethane	6.559	63	62093	18.635	ug/l	95
22) cis-1,2-Dichloroethene	7.471	96	38102	18.393	ug/l #	71
23) tert-Butyl Alcohol	5.518	59	35959	98.082	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	108879	18.708	ug/l	100
25) Chloroform	7.953	83	68977	18.901	ug/l	88
26) Cyclohexane	8.242	56	44167	17.780	ug/l #	99
29) 1,1-Dichloropropene	8.353	75	42076	17.549	ug/l	99
30) 2-Butanone	7.477	43	143766	88.044	ug/l	99
31) 2,2-Dichloropropane	7.483	77	56927	18.079	ug/l	100
32) 1,1,1-Trichloroethane	8.153	97	57004	18.165	ug/l	99
33) Carbon Tetrachloride	8.347	117	50446	18.505	ug/l	91
34) Benzene	8.589	78	136135	17.580	ug/l	94
35) Methacrylonitrile	7.759	41	28105	16.367	ug/l	94
36) 1,2-Dichloroethane	8.647	62	55263	18.090	ug/l #	94
37) Trichloroethene	9.336	130	33012	18.680	ug/l	98
38) Methylcyclohexane	9.583	83	44787	17.670	ug/l	95
39) 1,2-Dichloropropane	9.600	63	35944	18.476	ug/l	93
40) Dibromomethane	9.694	93	27101	18.006	ug/l	98
41) Bromodichloromethane	9.871	83	54693	18.302	ug/l	98
42) Vinyl Acetate	6.595	43	474990	85.871	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072425\
 Data File : VN087409.D
 Acq On : 24 Jul 2025 09:50
 Operator : JC\MD
 Sample : VN0724WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0724WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/25/2025
 Supervised By : Mahesh Dadoda 07/25/2025

Quant Time: Jul 25 04:51:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 24 05:11:26 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	58892	17.716	ug/l #	80
44) Isopropyl Acetate	8.671	43	91225	17.383	ug/l	98
45) 1,4-Dioxane	9.683	88	11606	358.951	ug/l #	66
46) Methyl methacrylate	9.665	41	41556	17.195	ug/l	97
47) n-amyl Acetate	12.518	43	56608m	18.000	ug/l	
48) t-1,3-Dichloropropene	10.818	75	56118	17.603	ug/l	91
49) cis-1,3-Dichloropropene	10.294	75	56612	17.756	ug/l	94
50) 1,1,2-Trichloroethane	10.994	97	34907	17.958	ug/l	96
51) Ethyl methacrylate	10.859	69	50549	17.005	ug/l	99
52) 1,3-Dichloropropane	11.141	76	57905	17.326	ug/l	99
53) Dibromochloromethane	11.341	129	40545	17.796	ug/l	98
54) 1,2-Dibromoethane	11.453	107	35134	17.633	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	150336	90.913	ug/l	100
56) Bromoform	12.559	173	26960	16.638	ug/l	98
58) 4-Methyl-2-Pentanone	10.424	43	291631	88.989	ug/l	99
59) 2-Hexanone	11.182	43	191011	86.352	ug/l	100
61) Tetrachloroethene	11.082	164	26439	17.666	ug/l #	84
62) Toluene	10.612	91	143671	17.602	ug/l	99
64) Chlorobenzene	11.871	112	93247	17.869	ug/l	91
65) 1,1,1,2-Tetrachloroethane	11.941	131	35064	18.387	ug/l	96
66) Ethyl Benzene	11.941	91	153692	17.393	ug/l	98
67) m/p-Xylenes	12.053	106	122019	34.893	ug/l	100
68) o-Xylene	12.382	106	57608	17.174	ug/l	99
69) Styrene	12.394	104	99727	17.088	ug/l	98
70) Isopropylbenzene	12.677	105	141677	16.770	ug/l	95
71) 1,1,2,2-Tetrachloroethane	12.918	83	50724	17.068	ug/l	93
72) 1,2,3-Trichloropropane	12.976	75	45221m	17.032	ug/l	
73) Bromobenzene	12.959	156	38397	17.461	ug/l	97
74) n-propylbenzene	13.018	91	182425	17.099	ug/l	100
75) 2-Chlorotoluene	13.106	91	108786	16.977	ug/l	100
76) 1,3,5-Trimethylbenzene	13.153	105	123324	16.782	ug/l	98
77) t-1,4-Dichloro-2-butene	12.724	75	15639	14.739	ug/l #	75
78) 4-Chlorotoluene	13.200	91	116219	17.006	ug/l	97
79) tert-butylbenzene	13.418	119	101421	16.251	ug/l	97
80) 1,2,4-Trimethylbenzene	13.459	105	124854	16.644	ug/l	100
81) sec-Butylbenzene	13.594	105	151101	16.776	ug/l	99
82) p-Isopropyltoluene	13.706	119	127233	16.459	ug/l	97
83) 1,3-Dichlorobenzene	13.712	146	76643	17.299	ug/l	98
84) 1,4-Dichlorobenzene	13.788	146	75501	17.264	ug/l	97
85) n-Butylbenzene	14.035	91	116471	16.359	ug/l	99
86) Hexachloroethane	14.306	117	25307	16.823	ug/l	99
87) 1,2-Dichlorobenzene	14.082	146	70930	17.003	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.700	75	11952	17.285	ug/l #	88
89) 1,2,4-Trichlorobenzene	15.812	180	41171	17.109	ug/l	97
90) Hexachlorobutadiene	15.476	225	17392	17.522	ug/l	95
91) Naphthalene	15.617	128	130313	16.270	ug/l	100
92) 1,2,3-Trichlorobenzene	15.812	180	41171	17.109	ug/l	97

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072425\
 Data File : VN087409.D
 Acq On : 24 Jul 2025 09:50
 Operator : JC\MD
 Sample : VN0724WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0724WBS01

Manual Integrations APPROVED

Reviewed By : John Carlone 07/25/2025
 Supervised By : Mahesh Dadoda 07/25/2025

Quant Time: Jul 25 04:51:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 24 05:11:26 2025
 Response via : Initial Calibration

