

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092225\
 Data File : VN087913.D
 Acq On : 22 Sep 2025 10:57
 Operator : JC\MD
 Sample : VN0922WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0922WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/23/2025
 Supervised By : Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 04:49:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 05 03:29:53 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.794	128	47211	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.077	114	230333	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	222543	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	112018	27.776	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	92.600%		
60) 4-Bromofluorobenzene	12.829	95	105659	29.528	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.433%		
63) Toluene-d8	10.547	98	293704	28.379	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	94.600%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	51518	17.558	ug/l	97
3) Chloromethane	2.383	50	46561	15.116	ug/l	93
4) Vinyl Chloride	2.536	62	49891	14.329	ug/l	99
5) Bromomethane	2.983	94	28391	13.899	ug/l	93
6) Chloroethane	3.142	64	33465	14.062	ug/l #	84
7) Trichlorofluoromethane	3.512	101	80940	15.859	ug/l	93
8) Diethyl Ether	3.959	74	33285	15.444	ug/l	88
9) 1,1,2-Trichlorotrifluo...	4.365	101	41722	15.092	ug/l	68
10) 1,1-Dichloroethene	4.342	96	42019	14.743	ug/l	95
11) Methyl Iodide	4.583	142	33696	16.702	ug/l	85
12) Methyl Acetate	5.018	43	86186	19.617	ug/l	99
13) Acrolein	4.171	56	73978	94.571	ug/l #	43
14) Acrylonitrile	5.706	53	168621	89.167	ug/l	99
15) Acetone	4.424	58	50875	86.238	ug/l	71
16) Carbon Disulfide	4.700	76	118255	15.112	ug/l #	90
17) Allyl chloride	5.018	41	73768	15.847	ug/l	98
18) Methylene Chloride	5.265	84	61895	19.172	ug/l #	81
19) trans-1,2-Dichloroethene	5.777	96	54297	18.680	ug/l	96
20) Diisopropyl ether	6.659	45	186611	17.432	ug/l #	89
21) 1,1-Dichloroethane	6.553	63	103295	17.620	ug/l #	95
22) cis-1,2-Dichloroethene	7.465	96	64302	18.225	ug/l	99
23) tert-Butyl Alcohol	5.518	59	58234	87.113	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	184854	18.167	ug/l #	81
25) Chloroform	7.947	83	119130m	19.414	ug/l	
26) Cyclohexane	8.241	56	66489	14.893	ug/l #	94
29) 1,1-Dichloropropene	8.353	75	67632	18.067	ug/l	95
30) 2-Butanone	7.465	43	243837	94.559	ug/l	99
31) 2,2-Dichloropropane	7.477	77	97569	21.622	ug/l #	84
32) 1,1,1-Trichloroethane	8.147	97	96916	20.422	ug/l	99
33) Carbon Tetrachloride	8.341	117	81521	20.602	ug/l	98
34) Benzene	8.583	78	230417	19.046	ug/l	99
35) Methacrylonitrile	7.765	41	50228	18.622	ug/l	93
36) 1,2-Dichloroethane	8.653	62	88454	19.356	ug/l	100
37) Trichloroethene	9.335	130	52312	19.343	ug/l	95
38) Methylcyclohexane	9.577	83	66726	16.188	ug/l	96
39) 1,2-Dichloropropane	9.600	63	60893	19.652	ug/l	95
40) Dibromomethane	9.688	93	47952	20.795	ug/l	96
41) Bromodichloromethane	9.871	83	94561	20.063	ug/l #	88
42) Vinyl Acetate	6.589	43	749949	87.043	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092225\
 Data File : VN087913.D
 Acq On : 22 Sep 2025 10:57
 Operator : JC\MD
 Sample : VN0922WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0922WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/23/2025
 Supervised By : Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 04:49:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 05 03:29:53 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	96123	18.245	ug/l	95
44) Isopropyl Acetate	8.671	43	148503	17.980	ug/l	99
45) 1,4-Dioxane	9.677	88	19715	378.509	ug/l #	92
46) Methyl methacrylate	9.665	41	63823	16.765	ug/l	86
47) n-amyl Acetate	12.665	43	99368m	17.803	ug/l	
48) t-1,3-Dichloropropene	10.818	75	90740	18.537	ug/l	94
49) cis-1,3-Dichloropropene	10.294	75	99462	19.838	ug/l	90
50) 1,1,2-Trichloroethane	10.994	97	62007	20.819	ug/l	96
51) Ethyl methacrylate	10.853	69	84350	18.198	ug/l	95
52) 1,3-Dichloropropane	11.141	76	103305	19.975	ug/l	98
53) Dibromochloromethane	11.335	129	71016	21.266	ug/l	95
54) 1,2-Dibromoethane	11.447	107	64658	20.864	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	228461	86.026	ug/l	97
56) Bromoform	12.565	173	49625	22.755	ug/l	96
58) 4-Methyl-2-Pentanone	10.424	43	477626	90.769	ug/l	98
59) 2-Hexanone	11.177	43	314525	91.474	ug/l	98
61) Tetrachloroethene	11.082	164	46541	21.005	ug/l	95
62) Toluene	10.606	91	253155	18.806	ug/l	100
64) Chlorobenzene	11.871	112	167272	20.246	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.941	131	59947	20.609	ug/l	98
66) Ethyl Benzene	11.941	91	264265	18.197	ug/l #	88
67) m/p-Xylenes	12.047	106	208192	38.620	ug/l	91
68) o-Xylene	12.376	106	99744	19.083	ug/l	98
69) Styrene	12.394	104	167909	18.483	ug/l	97
70) Isopropylbenzene	12.676	105	246969	18.635	ug/l	95
71) 1,1,2,2-Tetrachloroethane	12.918	83	94358	19.804	ug/l	96
72) 1,2,3-Trichloropropane	12.976	75	91017m	19.456	ug/l	
73) Bromobenzene	12.959	156	70375	21.704	ug/l	85
74) n-propylbenzene	13.012	91	316138	18.906	ug/l	97
75) 2-Chlorotoluene	13.106	91	197148	19.589	ug/l	95
76) 1,3,5-Trimethylbenzene	13.153	105	223396	19.961	ug/l	97
77) t-1,4-Dichloro-2-butene	12.718	75	27358	17.326	ug/l #	78
78) 4-Chlorotoluene	13.200	91	204223	20.128	ug/l	98
79) tert-butylbenzene	13.418	119	182120	19.431	ug/l	97
80) 1,2,4-Trimethylbenzene	13.459	105	224582	19.573	ug/l	98
81) sec-Butylbenzene	13.594	105	274953	19.944	ug/l	97
82) p-Isopropyltoluene	13.706	119	232439	20.463	ug/l	96
83) 1,3-Dichlorobenzene	13.712	146	134692	21.546	ug/l	97
84) 1,4-Dichlorobenzene	13.788	146	134999	21.545	ug/l	98
85) n-Butylbenzene	14.035	91	214243	19.622	ug/l	99
86) Hexachloroethane	14.312	117	50251	21.780	ug/l	97
87) 1,2-Dichlorobenzene	14.082	146	130451	22.126	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.700	75	20575	19.460	ug/l	87
89) 1,2,4-Trichlorobenzene	15.812	180	75355	22.472	ug/l	97
90) Hexachlorobutadiene	15.470	225	30765	27.367	ug/l	93
91) Naphthalene	15.617	128	229779	18.613	ug/l	97
92) 1,2,3-Trichlorobenzene	15.812	180	75355	22.472	ug/l	97

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092225\
Data File : VN087913.D
Acq On : 22 Sep 2025 10:57
Operator : JC\MD
Sample : VN0922WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0922WBS01

Manual Integrations
APPROVED

Reviewed By : John Carlone 09/23/2025
Supervised By : Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 04:49:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration

