

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072325\
 Data File : VN087403.D
 Acq On : 23 Jul 2025 11:32
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Quant Time: Jul 24 04:50:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 24 04:45:45 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

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

Internal Standards						
1) Bromochloromethane	7.800	128	32808	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	156029	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	158451	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	80344	29.592	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.633%		
60) 4-Bromofluorobenzene	12.823	95	86716	32.822	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	109.400%		
63) Toluene-d8	10.547	98	214243	29.368	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.900%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	308153	160.247	ug/l	90
3) Chloromethane	2.383	50	313248	161.368	ug/l	94
4) Vinyl Chloride	2.536	62	345981	159.382	ug/l	95
5) Bromomethane	2.953	94	212222	171.386	ug/l	87
6) Chloroethane	3.130	64	243742	146.050	ug/l #	87
7) Trichlorofluoromethane	3.506	101	519101	140.116	ug/l	95
8) Diethyl Ether	3.959	74	217160	150.479	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.365	101	269591m	140.569	ug/l	
10) 1,1-Dichloroethene	4.330	96	277618	139.665	ug/l #	85
11) Methyl Iodide	4.577	142	287112	203.929	ug/l	91
12) Methyl Acetate	5.018	43	412430	159.929	ug/l	95
13) Acrolein	4.171	56	371839	835.080	ug/l	99
14) Acrylonitrile	5.706	53	970045	827.360	ug/l	98
15) Acetone	4.424	58	280358	685.113	ug/l	95
16) Carbon Disulfide	4.700	76	751598	147.084	ug/l	97
17) Allyl chloride	5.012	41	450948	164.628	ug/l	96
18) Methylene Chloride	5.265	84	289163	143.267	ug/l #	84
19) trans-1,2-Dichloroethene	5.771	96	295483	153.075	ug/l	91
20) Diisopropyl ether	6.659	45	1174437	171.333	ug/l	98
21) 1,1-Dichloroethane	6.559	63	574816	153.028	ug/l	95
22) cis-1,2-Dichloroethene	7.471	96	359946	156.558	ug/l	96
23) tert-Butyl Alcohol	5.530	59	315668	790.572	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	1053042	166.243	ug/l	99
25) Chloroform	7.947	83	606973	149.488	ug/l	91
26) Cyclohexane	8.241	56	468895	168.171	ug/l #	96
29) 1,1-Dichloropropene	8.353	75	412418	156.333	ug/l	99
30) 2-Butanone	7.471	43	1441630	812.274	ug/l	97
31) 2,2-Dichloropropane	7.477	77	511351	147.594	ug/l	99
32) 1,1,1-Trichloroethane	8.153	97	501569	146.301	ug/l	99
33) Carbon Tetrachloride	8.347	117	441001	146.476	ug/l	95
34) Benzene	8.588	78	1298039	154.389	ug/l	98
35) Methacrylonitrile	7.765	41	308690	168.338	ug/l	91
36) 1,2-Dichloroethane	8.653	62	500185	148.828	ug/l	100
37) Trichloroethene	9.335	130	278303	141.488	ug/l	99
38) Methylcyclohexane	9.582	83	452915	165.952	ug/l	97
39) 1,2-Dichloropropane	9.606	63	324736	153.723	ug/l	96
40) Dibromomethane	9.688	93	249428	149.589	ug/l	99
41) Bromodichloromethane	9.871	83	481463	145.827	ug/l	92
42) Vinyl Acetate	6.594	43	5136100	845.083	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072325\
 Data File : VN087403.D
 Acq On : 23 Jul 2025 11:32
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Quant Time: Jul 24 04:50:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 24 04:45:45 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	581118m	156.702	ug/l	
44) Isopropyl Acetate	8.676	43	943779	167.374	ug/l	97
45) 1,4-Dioxane	9.682	88	113953	3303.280	ug/l #	56
46) Methyl methacrylate	9.665	41	445064	171.879	ug/l	99
47) n-amyl Acetate	12.482	43	688872	236.640	ug/l #	60
48) t-1,3-Dichloropropene	10.818	75	565440	162.670	ug/l	98
49) cis-1,3-Dichloropropene	10.294	75	560783	159.581	ug/l	95
50) 1,1,2-Trichloroethane	10.994	97	319867	149.648	ug/l	96
51) Ethyl methacrylate	10.859	69	574382	177.567	ug/l	98
52) 1,3-Dichloropropane	11.141	76	566671	156.341	ug/l	97
53) Dibromochloromethane	11.341	129	392708	156.391	ug/l	99
54) 1,2-Dibromoethane	11.447	107	341133	152.464	ug/l	96
55) 2-Chloroethyl vinyl ether	10.141	63	1452365	837.808	ug/l	98
56) Bromoform	12.559	173	294556	166.136	ug/l	100
58) 4-Methyl-2-Pentanone	10.429	43	3029140	797.821	ug/l	99
59) 2-Hexanone	11.176	43	2187266	846.940	ug/l	98
61) Tetrachloroethene	11.082	164	250544	140.959	ug/l	93
62) Toluene	10.612	91	1463796	153.217	ug/l	98
64) Chlorobenzene	11.870	112	925608	153.179	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.941	131	328710	147.925	ug/l	99
66) Ethyl Benzene	11.941	91	1677577	164.532	ug/l	97
67) m/p-Xylenes	12.047	106	1321681	324.369	ug/l	99
68) o-Xylene	12.376	106	641702	168.026	ug/l	97
69) Styrene	12.394	104	1151582	171.436	ug/l	99
70) Isopropylbenzene	12.676	105	1665412	170.112	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.917	83	538986	154.029	ug/l	96
72) 1,2,3-Trichloropropane	12.970	75	525973m	118.649	ug/l	
73) Bromobenzene	12.959	156	405169	158.627	ug/l	96
74) n-propylbenzene	13.012	91	2014635	161.916	ug/l	99
75) 2-Chlorotoluene	13.106	91	1206115	164.175	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	1399094	165.134	ug/l	99
77) t-1,4-Dichloro-2-butene	12.717	75	223985	184.602	ug/l	83
78) 4-Chlorotoluene	13.200	91	1286870	163.247	ug/l	99
79) tert-butylbenzene	13.417	119	1207218	169.010	ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	1462215	168.612	ug/l	99
81) sec-Butylbenzene	13.594	105	1720694	165.116	ug/l	99
82) p-Isopropyltoluene	13.706	119	1526180	171.037	ug/l	97
83) 1,3-Dichlorobenzene	13.711	146	804036	156.099	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	803072	157.759	ug/l	98
85) n-Butylbenzene	14.035	91	1394470	171.089	ug/l	97
86) Hexachloroethane	14.311	117	279017	158.990	ug/l	99
87) 1,2-Dichlorobenzene	14.082	146	769851	157.565	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.700	75	126525	159.520	ug/l	96
89) 1,2,4-Trichlorobenzene	15.811	180	473933	170.062	ug/l	97
90) Hexachlorobutadiene	15.476	225	180043	156.218	ug/l	98
91) Naphthalene	15.611	128	1671613	182.141	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	473933	170.062	ug/l	97

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072325\
Data File : VN087403.D
Acq On : 23 Jul 2025 11:32
Operator : JC\MD
Sample : VSTDIC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:50:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072325W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jul 24 04:45:45 2025
Response via : Initial Calibration

