

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN070925\
 Data File : VN087306.D
 Acq On : 09 Jul 2025 09:57
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/10/2025
 Supervised By : Mahesh Dadoda 07/10/2025

Quant Time: Jul 10 01:22:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 25 10:49:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	43430	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	217232	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	209262	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	92336	28.218	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	94.067%		
60) 4-Bromofluorobenzene	12.847	95	97628	30.233	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.767%		
63) Toluene-d8	10.565	98	273284	29.086	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	96.967%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.154	85	42812	16.376	ug/l	100
3) Chloromethane	2.395	50	35033	13.120	ug/l	98
4) Vinyl Chloride	2.554	62	44448	15.316	ug/l	98
5) Bromomethane	3.001	94	38489	24.990	ug/l	92
6) Chloroethane	3.159	64	36195	23.250	ug/l	98
7) Trichlorofluoromethane	3.536	101	74097	20.815	ug/l	91
8) Diethyl Ether	3.983	74	24782m	14.170	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.395	101	47805	18.113	ug/l	97
10) 1,1-Dichloroethene	4.371	96	41288	15.694	ug/l	95
11) Methyl Iodide	4.618	142	44998	19.092	ug/l	90
12) Methyl Acetate	5.042	43	56216	13.623	ug/l	93
13) Acrolein	4.200	56	45181	71.253	ug/l	95
14) Acrylonitrile	5.736	53	128164	66.585	ug/l	98
15) Acetone	4.447	58	48849	87.002	ug/l	96
16) Carbon Disulfide	4.742	76	111130	14.447	ug/l #	95
17) Allyl chloride	5.047	41	49966	11.515	ug/l	91
18) Methylene Chloride	5.300	84	50377	16.529	ug/l	90
19) trans-1,2-Dichloroethene	5.806	96	47680	16.573	ug/l	89
20) Diisopropyl ether	6.683	45	120502	13.089	ug/l #	89
21) 1,1-Dichloroethane	6.589	63	81762	14.860	ug/l #	97
22) cis-1,2-Dichloroethene	7.494	96	55352	16.531	ug/l	89
23) tert-Butyl Alcohol	5.536	59	51936	71.746	ug/l #	100
24) Methyl tert-Butyl Ether	5.812	73	139882	15.160	ug/l	96
25) Chloroform	7.977	83	93336	17.706	ug/l	90
26) Cyclohexane	8.265	56	58185	12.722	ug/l #	83
29) 1,1-Dichloropropene	8.377	75	58974	17.418	ug/l	96
30) 2-Butanone	7.488	43	178020	77.944	ug/l	93
31) 2,2-Dichloropropane	7.494	77	83032	20.315	ug/l	97
32) 1,1,1-Trichloroethane	8.177	97	85428	21.597	ug/l	98
33) Carbon Tetrachloride	8.371	117	72479	21.773	ug/l	95
34) Benzene	8.612	78	190712	17.779	ug/l	99
35) Methacrylonitrile	7.788	41	32388	14.071	ug/l	83
36) 1,2-Dichloroethane	8.677	62	67320	19.425	ug/l	98
37) Trichloroethene	9.353	130	48837	19.739	ug/l	92
38) Methylcyclohexane	9.600	83	64330	16.559	ug/l	92
39) 1,2-Dichloropropane	9.624	63	45815	17.017	ug/l	92
40) Dibromomethane	9.712	93	36991	20.206	ug/l	97
41) Bromodichloromethane	9.888	83	73333	19.846	ug/l	97
42) Vinyl Acetate	6.618	43	478981	64.478	ug/l #	89

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	65989	16.005	ug/l	99
44) Isopropyl Acetate	8.694	43	100825	15.009	ug/l	94
45) 1,4-Dioxane	9.700	88	18306	402.845	ug/l #	77
46) Methyl methacrylate	9.682	41	44087	14.118	ug/l	88
47) n-amyl Acetate	12.535	43	76242m	18.564	ug/l	
48) t-1,3-Dichloropropene	10.835	75	70765	17.179	ug/l	99
49) cis-1,3-Dichloropropene	10.312	75	75288	17.192	ug/l	98
50) 1,1,2-Trichloroethane	11.018	97	50472	19.408	ug/l	94
51) Ethyl methacrylate	10.882	69	60262	15.225	ug/l	87
52) 1,3-Dichloropropane	11.165	76	81749	18.311	ug/l	100
53) Dibromochloromethane	11.359	129	59277	21.715	ug/l	97
54) 1,2-Dibromoethane	11.471	107	52383	19.524	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	150405	66.294	ug/l	96
56) Bromoform	12.582	173	40583	21.626	ug/l	98
58) 4-Methyl-2-Pentanone	10.447	43	314495	74.756	ug/l #	96
59) 2-Hexanone	11.206	43	192922	71.018	ug/l	97
61) Tetrachloroethene	11.100	164	41504	20.028	ug/l	93
62) Toluene	10.629	91	212767	18.002	ug/l	100
64) Chlorobenzene	11.888	112	146947	19.492	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	52184	20.949	ug/l	97
66) Ethyl Benzene	11.965	91	224178	17.329	ug/l	95
67) m/p-Xylenes	12.071	106	188628	38.051	ug/l	94
68) o-Xylene	12.394	106	84567	17.881	ug/l	97
69) Styrene	12.412	104	146815	18.082	ug/l	98
70) Isopropylbenzene	12.694	105	223513	18.976	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	78990	18.631	ug/l	98
72) 1,2,3-Trichloropropane	12.988	75	67637m	18.500	ug/l	
73) Bromobenzene	12.982	156	60146	21.051	ug/l	83
74) n-propylbenzene	13.035	91	269455	18.726	ug/l	94
75) 2-Chlorotoluene	13.123	91	161535	18.581	ug/l	93
76) 1,3,5-Trimethylbenzene	13.170	105	191579	19.979	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	26492	16.336	ug/l	95
78) 4-Chlorotoluene	13.218	91	170402	19.138	ug/l	95
79) tert-butylbenzene	13.435	119	161217	20.001	ug/l	96
80) 1,2,4-Trimethylbenzene	13.482	105	194988	20.251	ug/l	99
81) sec-Butylbenzene	13.612	105	233914	19.964	ug/l	97
82) p-Isopropyltoluene	13.729	119	200367	20.549	ug/l	97
83) 1,3-Dichlorobenzene	13.729	146	119242	21.672	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	119427	21.567	ug/l	98
85) n-Butylbenzene	14.053	91	168734	18.966	ug/l	98
86) Hexachloroethane	14.329	117	39701	21.509	ug/l	98
87) 1,2-Dichlorobenzene	14.106	146	113223	21.825	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	18710	19.599	ug/l	90
89) 1,2,4-Trichlorobenzene	15.835	180	60111	20.480	ug/l	97
90) Hexachlorobutadiene	15.500	225	18312	21.025	ug/l	99
91) Naphthalene	15.635	128	209726	18.156	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	60111	20.480	ug/l	97

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

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