

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052925\
 Data File : VN086807.D
 Acq On : 29 May 2025 11:20
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

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

Quant Time: May 30 01:57:41 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)

Internal Standards						
1) Bromochloromethane	7.812	128	37101	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	210546	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	189009	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	77229	30.297	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.000%			
60) 4-Bromofluorobenzene	12.847	95	88476	29.815	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.400%			
63) Toluene-d8	10.565	98	263046	30.321	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.067%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	52720	20.922	ug/l	100
3) Chloromethane	2.359	50	67271	20.706	ug/l	100
4) Vinyl Chloride	2.512	62	61343	20.517	ug/l	100
5) Bromomethane	2.959	94	32987	20.823	ug/l	100
6) Chloroethane	3.124	64	37880	20.714	ug/l	100
7) Trichlorofluoromethane	3.501	101	70875	20.240	ug/l	100
8) Diethyl Ether	3.959	74	28929	19.804	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	43679	20.353	ug/l	100
10) 1,1-Dichloroethene	4.336	96	43494	19.879	ug/l	100
11) Methyl Iodide	4.589	142	50467	19.567	ug/l	100
12) Methyl Acetate	5.024	43	48303	19.933	ug/l	100
13) Acrolein	4.183	56	24332	96.537	ug/l	100
14) Acrylonitrile	5.718	53	113876	100.708	ug/l	100
15) Acetone	4.418	58	29123	101.722	ug/l	100
16) Carbon Disulfide	4.712	76	128395	20.103	ug/l	100
17) Allyl chloride	5.024	41	65307	20.092	ug/l	100
18) Methylene Chloride	5.277	84	51325	20.199	ug/l	100
19) trans-1,2-Dichloroethene	5.783	96	46328	20.233	ug/l	100
20) Diisopropyl ether	6.671	45	149023	20.817	ug/l	100
21) 1,1-Dichloroethane	6.565	63	88434	20.469	ug/l	100
22) cis-1,2-Dichloroethene	7.483	96	55609	20.055	ug/l	100
23) tert-Butyl Alcohol	5.518	59	36977	101.832	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	144821	20.083	ug/l	100
25) Chloroform	7.965	83	85389	20.193	ug/l	100
26) Cyclohexane	8.253	56	75338	20.148	ug/l #	100
29) 1,1-Dichloropropene	8.365	75	62257	20.111	ug/l	100
30) 2-Butanone	7.483	43	137625	101.467	ug/l	100
31) 2,2-Dichloropropane	7.483	77	74622	20.421	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	72907	20.317	ug/l	100
33) Carbon Tetrachloride	8.359	117	61922	20.187	ug/l	100
34) Benzene	8.606	78	205111	20.364	ug/l	100
35) Methacrylonitrile	7.777	41	32745	21.016	ug/l	100
36) 1,2-Dichloroethane	8.665	62	60188	20.392	ug/l	100
37) Trichloroethene	9.347	130	55110	19.725	ug/l	100
38) Methylcyclohexane	9.600	83	67964	19.787	ug/l	100
39) 1,2-Dichloropropane	9.618	63	49644	20.472	ug/l	100
40) Dibromomethane	9.706	93	32035	20.198	ug/l	100
41) Bromodichloromethane	9.882	83	66883	20.146	ug/l	100
42) Vinyl Acetate	6.600	43	415639	105.128	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	58271	20.995	ug/l	100
44) Isopropyl Acetate	8.683	43	97384	20.454	ug/l	100
45) 1,4-Dioxane	9.694	88	17506	413.686	ug/l	100
46) Methyl methacrylate	9.677	41	43721	19.916	ug/l	100
47) n-amyl Acetate	12.494	43	78489	20.535	ug/l	100
48) t-1,3-Dichloropropene	10.829	75	70982	19.980	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	77477	19.827	ug/l	100
50) 1,1,2-Trichloroethane	11.012	97	44971	20.132	ug/l	100
51) Ethyl methacrylate	10.871	69	71253	19.696	ug/l	100
52) 1,3-Dichloropropane	11.159	76	79173	19.972	ug/l	100
53) Dibromochloromethane	11.353	129	49951	19.788	ug/l	100
54) 1,2-Dibromoethane	11.465	107	46157	20.215	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	167435	96.419	ug/l	100
56) Bromoform	12.576	173	31789	19.987	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	287881	103.801	ug/l	100
59) 2-Hexanone	11.188	43	203275	102.323	ug/l	100
61) Tetrachloroethene	11.100	164	63325	19.931	ug/l	100
62) Toluene	10.624	91	216360	20.325	ug/l	100
64) Chlorobenzene	11.888	112	136627	20.126	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	44306	19.866	ug/l	100
66) Ethyl Benzene	11.959	91	231289	20.088	ug/l	100
67) m/p-Xylenes	12.065	106	182175	40.320	ug/l	100
68) o-Xylene	12.394	106	87623	20.011	ug/l	100
69) Styrene	12.406	104	145956	20.007	ug/l	100
70) Isopropylbenzene	12.694	105	209188	20.086	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	51621	20.847	ug/l	100
72) 1,2,3-Trichloropropane	12.988	75	58937m	19.320	ug/l	
73) Bromobenzene	12.976	156	52090	20.123	ug/l	100
74) n-propylbenzene	13.029	91	247566	20.068	ug/l	100
75) 2-Chlorotoluene	13.123	91	159048	20.087	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	173075	19.976	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	22762	19.166	ug/l	100
78) 4-Chlorotoluene	13.217	91	155817	19.866	ug/l	100
79) tert-butylbenzene	13.435	119	148370	19.807	ug/l	100
80) 1,2,4-Trimethylbenzene	13.476	105	174264	20.038	ug/l	100
81) sec-Butylbenzene	13.612	105	203214	19.913	ug/l	100
82) p-Isopropyltoluene	13.723	119	170107	19.852	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	92198	19.415	ug/l	100
84) 1,4-Dichlorobenzene	13.806	146	91531	19.368	ug/l	100
85) n-Butylbenzene	14.053	91	136590	19.040	ug/l	100
86) Hexachloroethane	14.329	117	28367	19.424	ug/l	100
87) 1,2-Dichlorobenzene	14.100	146	89883	19.621	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	10031	19.237	ug/l	100
89) 1,2,4-Trichlorobenzene	15.835	180	35196	18.358	ug/l	100
90) Hexachlorobutadiene	15.500	225	15326	18.652	ug/l	100
91) Naphthalene	15.635	128	119288	17.833	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	35196	18.358	ug/l	100

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

