

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086373.D
 Acq On : 23 Apr 2025 09:45
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/24/2025
 Supervised By : Mahesh Dadoda 04/25/2025

Quant Time: Apr 24 04:21:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 03:57:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	28897	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	176907	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	163017	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	86075	30.895	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.000%			
60) 4-Bromofluorobenzene	12.847	95	94119	29.376	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.933%			
63) Toluene-d8	10.559	98	270583	30.171	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.567%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	40965	20.534	ug/l	100
3) Chloromethane	2.365	50	55943	19.741	ug/l	100
4) Vinyl Chloride	2.518	62	54265	19.993	ug/l	100
5) Bromomethane	2.965	94	28909	20.401	ug/l	100
6) Chloroethane	3.124	64	36185	19.998	ug/l	100
7) Trichlorofluoromethane	3.500	101	65562	20.464	ug/l	100
8) Diethyl Ether	3.959	74	26673	19.723	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	39448	20.028	ug/l	100
10) 1,1-Dichloroethene	4.342	96	40368	20.024	ug/l	100
11) Methyl Iodide	4.595	142	46703	19.800	ug/l	100
12) Methyl Acetate	5.018	43	57880	20.256	ug/l	100
13) Acrolein	4.177	56	12298m	83.896	ug/l	
14) Acrylonitrile	5.712	53	106580	100.220	ug/l	100
15) Acetone	4.424	58	26827	91.547	ug/l	100
16) Carbon Disulfide	4.712	76	107956	20.323	ug/l	100
17) Allyl chloride	5.024	41	62671	19.442	ug/l	100
18) Methylene Chloride	5.277	84	45816	19.957	ug/l	100
19) trans-1,2-Dichloroethene	5.783	96	42390	19.728	ug/l	100
20) Diisopropyl ether	6.671	45	150643	19.655	ug/l	100
21) 1,1-Dichloroethane	6.565	63	83307	19.857	ug/l	100
22) cis-1,2-Dichloroethene	7.483	96	52755	19.635	ug/l	100
23) tert-Butyl Alcohol	5.512	59	43778	106.266	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	148542	19.943	ug/l	100
25) Chloroform	7.965	83	85942	20.241	ug/l	100
26) Cyclohexane	8.253	56	72755	19.641	ug/l #	100
29) 1,1-Dichloropropene	8.365	75	59648	19.126	ug/l	100
30) 2-Butanone	7.477	43	145888	96.376	ug/l	100
31) 2,2-Dichloropropane	7.488	77	77657	19.370	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	72334	19.409	ug/l	100
33) Carbon Tetrachloride	8.359	117	59965	19.546	ug/l	100
34) Benzene	8.600	78	192789	19.435	ug/l	100
35) Methacrylonitrile	7.777	41	35245	20.411	ug/l	100
36) 1,2-Dichloroethane	8.665	62	62808	19.502	ug/l	100
37) Trichloroethene	9.347	130	46850	18.866	ug/l	100
38) Methylcyclohexane	9.600	83	69428	19.275	ug/l	100
39) 1,2-Dichloropropane	9.618	63	47394	19.340	ug/l	100
40) Dibromomethane	9.706	93	32116	19.597	ug/l	100
41) Bromodichloromethane	9.882	83	67347	19.419	ug/l	100
42) Vinyl Acetate	6.600	43	518356	98.852	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	55894	18.658	ug/l	100
44) Isopropyl Acetate	8.682	43	109922	19.334	ug/l	100
45) 1,4-Dioxane	9.694	88	17979	405.300	ug/l	100
46) Methyl methacrylate	9.677	41	50790	19.367	ug/l	100
47) n-amyl Acetate	12.488	43	92290	19.045	ug/l	100
48) t-1,3-Dichloropropene	10.829	75	74180	19.132	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	78337	19.159	ug/l	100
50) 1,1,2-Trichloroethane	11.012	97	45121	19.712	ug/l	100
51) Ethyl methacrylate	10.871	69	76257	19.128	ug/l	100
52) 1,3-Dichloropropane	11.159	76	78642	19.439	ug/l	100
53) Dibromochloromethane	11.353	129	49462	19.243	ug/l	100
54) 1,2-Dibromoethane	11.465	107	45261	19.447	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	182398	97.314	ug/l	100
56) Bromoform	12.576	173	32369	19.406	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	308775	97.881	ug/l	100
59) 2-Hexanone	11.194	43	227878	98.024	ug/l	100
61) Tetrachloroethene	11.100	164	46962	18.888	ug/l	100
62) Toluene	10.629	91	212695	19.492	ug/l	100
64) Chlorobenzene	11.888	112	132119	19.432	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	43742	19.241	ug/l	100
66) Ethyl Benzene	11.959	91	237663	19.350	ug/l	100
67) m/p-Xylenes	12.065	106	179085	38.428	ug/l	100
68) o-Xylene	12.394	106	87377	19.149	ug/l	100
69) Styrene	12.406	104	146815	18.983	ug/l	100
70) Isopropylbenzene	12.694	105	219637	19.283	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	61516	20.511	ug/l	100
72) 1,2,3-Trichloropropane	12.988	75	50447m	19.411	ug/l	
73) Bromobenzene	12.976	156	50559	19.307	ug/l	100
74) n-propylbenzene	13.029	91	256755	18.969	ug/l	100
75) 2-Chlorotoluene	13.123	91	162370	19.217	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	177449	18.987	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	24753	18.653	ug/l	100
78) 4-Chlorotoluene	13.217	91	156935	18.576	ug/l	100
79) tert-butylbenzene	13.435	119	152667	19.073	ug/l	100
80) 1,2,4-Trimethylbenzene	13.476	105	180860	18.949	ug/l	100
81) sec-Butylbenzene	13.612	105	213493	18.686	ug/l	100
82) p-Isopropyltoluene	13.723	119	175002	18.304	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	90643	18.311	ug/l	100
84) 1,4-Dichlorobenzene	13.812	146	89707	18.342	ug/l	100
85) n-Butylbenzene	14.053	91	153480	17.991	ug/l	100
86) Hexachloroethane	14.329	117	28629	18.313	ug/l	100
87) 1,2-Dichlorobenzene	14.100	146	86899	18.450	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	11084	18.182	ug/l	100
89) 1,2,4-Trichlorobenzene	15.835	180	37802	17.609	ug/l	100
90) Hexachlorobutadiene	15.494	225	15432	17.847	ug/l	100
91) Naphthalene	15.635	128	135497	17.630	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	37802	17.609	ug/l	100

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

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