

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040425\
 Data File : VN086227.D
 Acq On : 04 Apr 2025 12:26
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/07/2025
 Supervised By : Mahesh Dadoda 04/07/2025

Quant Time: Apr 04 23:45:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N040425W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 04 23:41:25 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	28268	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	156838	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.859	117	146966	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	83097	29.290	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.633%		
60) 4-Bromofluorobenzene	12.841	95	86738	31.676	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	105.600%		
63) Toluene-d8	10.565	98	246122	30.020	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.067%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	62670	32.716	ug/l	100
3) Chloromethane	2.359	50	61316	29.468	ug/l	100
4) Vinyl Chloride	2.518	62	60178	31.054	ug/l	100
5) Bromomethane	2.965	94	30885	30.731	ug/l	100
6) Chloroethane	3.124	64	35817	30.971	ug/l	100
7) Trichlorofluoromethane	3.500	101	81487	31.413	ug/l	100
8) Diethyl Ether	3.965	74	26747	30.937	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	44625	30.929	ug/l	100
10) 1,1-Dichloroethene	4.347	96	44468	31.576	ug/l	100
11) Methyl Iodide	4.589	142	54670	30.265	ug/l	100
12) Methyl Acetate	5.024	43	50845	27.324	ug/l	100
13) Acrolein	4.177	56	35948	176.861	ug/l	100
14) Acrylonitrile	5.718	53	109537	151.007	ug/l	100
15) Acetone	4.424	58	31262	138.149	ug/l	100
16) Carbon Disulfide	4.718	76	130810	28.996	ug/l	100
17) Allyl chloride	5.024	41	59189	30.216	ug/l	100
18) Methylene Chloride	5.277	84	50289	29.783	ug/l	100
19) trans-1,2-Dichloroethene	5.783	96	47381	31.154	ug/l	100
20) Diisopropyl ether	6.665	45	132361	32.188	ug/l	100
21) 1,1-Dichloroethane	6.565	63	86765	30.957	ug/l	100
22) cis-1,2-Dichloroethene	7.483	96	56953	31.574	ug/l	100
23) tert-Butyl Alcohol	5.518	59	42914m	162.014	ug/l	
24) Methyl tert-Butyl Ether	5.794	73	152460	33.143	ug/l	100
25) Chloroform	7.965	83	91425	31.085	ug/l	100
26) Cyclohexane	8.253	56	69098	30.628	ug/l #	100
29) 1,1-Dichloropropene	8.365	75	64589	32.818	ug/l	100
30) 2-Butanone	7.483	43	134612	155.584	ug/l	100
31) 2,2-Dichloropropane	7.488	77	80104	33.033	ug/l	100
32) 1,1,1-Trichloroethane	8.171	97	85837	32.252	ug/l	100
33) Carbon Tetrachloride	8.359	117	72612	31.989	ug/l	100
34) Benzene	8.606	78	203238	31.101	ug/l	100
35) Methacrylonitrile	7.771	41	28638	29.645	ug/l	100
36) 1,2-Dichloroethane	8.665	62	67310	31.013	ug/l	100
37) Trichloroethene	9.353	130	50468	32.247	ug/l	100
38) Methylcyclohexane	9.600	83	65407	31.673	ug/l	100
39) 1,2-Dichloropropane	9.618	63	47429	31.322	ug/l	100
40) Dibromomethane	9.706	93	34979	31.305	ug/l	100
41) Bromodichloromethane	9.888	83	70586	31.451	ug/l	100
42) Vinyl Acetate	6.600	43	485139	157.346	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	56291	31.643	ug/l	100
44) Isopropyl Acetate	8.682	43	91735	28.569	ug/l	100
45) 1,4-Dioxane	9.688	88	19475	661.610	ug/l	100
46) Methyl methacrylate	9.677	41	42259	32.131	ug/l	100
47) n-amyl Acetate	12.488	43	72413	33.006	ug/l	100
48) t-1,3-Dichloropropene	10.835	75	73789	31.906	ug/l	100
49) cis-1,3-Dichloropropene	10.306	75	78823	31.545	ug/l	100
50) 1,1,2-Trichloroethane	11.012	97	46137	31.582	ug/l	100
51) Ethyl methacrylate	10.871	69	70913	34.193	ug/l	100
52) 1,3-Dichloropropane	11.159	76	79979	31.424	ug/l	100
53) Dibromochloromethane	11.359	129	54180	31.854	ug/l	100
54) 1,2-Dibromoethane	11.465	107	46663	31.132	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	171727	180.581	ug/l	100
56) Bromoform	12.576	173	37360	32.468	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	280611	161.786	ug/l	100
59) 2-Hexanone	11.194	43	204078	163.921	ug/l	100
61) Tetrachloroethene	11.100	164	53694	31.304	ug/l	100
62) Toluene	10.629	91	212924	31.737	ug/l	100
64) Chlorobenzene	11.888	112	131687	31.459	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	48373	31.403	ug/l	100
66) Ethyl Benzene	11.959	91	227993	32.749	ug/l	100
67) m/p-Xylenes	12.065	106	184871	67.267	ug/l	100
68) o-Xylene	12.394	106	88264	33.271	ug/l	100
69) Styrene	12.406	104	143922	34.021	ug/l	100
70) Isopropylbenzene	12.694	105	218173	32.953	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	60087	31.289	ug/l	100
72) 1,2,3-Trichloropropane	12.988	75	56266m	30.346	ug/l	
73) Bromobenzene	12.976	156	53717	31.487	ug/l	100
74) n-propylbenzene	13.035	91	248664	32.808	ug/l	100
75) 2-Chlorotoluene	13.123	91	163715	32.435	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	185904	33.304	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	23424	31.674	ug/l	100
78) 4-Chlorotoluene	13.217	91	163587	32.681	ug/l	100
79) tert-butylbenzene	13.435	119	149500	32.502	ug/l	100
80) 1,2,4-Trimethylbenzene	13.482	105	190608	34.032	ug/l	100
81) sec-Butylbenzene	13.612	105	211055	33.501	ug/l	100
82) p-Isopropyltoluene	13.729	119	176855	34.312	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	100916	32.567	ug/l	100
84) 1,4-Dichlorobenzene	13.806	146	98978	32.726	ug/l	100
85) n-Butylbenzene	14.053	91	143399	34.456	ug/l	100
86) Hexachloroethane	14.329	117	29090	31.849	ug/l	100
87) 1,2-Dichlorobenzene	14.106	146	98417	32.426	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	13045	31.927	ug/l	100
89) 1,2,4-Trichlorobenzene	15.835	180	47414	32.111	ug/l	100
90) Hexachlorobutadiene	15.494	225	25656	31.697	ug/l	100
91) Naphthalene	15.635	128	157657	32.945	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	47414	32.111	ug/l	100

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

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