

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086372.D
 Acq On : 23 Apr 2025 09:22
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

04/24/2025
 Supervised By :Mahesh
 Dadoda

Quant Time: Apr 24 04:20:11 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	7.806	128	29756	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	182016	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.859	117	162942	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	88562	30.870	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.900%			
60) 4-Bromofluorobenzene	12.847	95	91848	28.680	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 95.600%			
63) Toluene-d8	10.565	98	271554	30.293	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.967%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	9505	4.627	ug/l	94
3) Chloromethane	2.365	50	15950	5.466	ug/l	97
4) Vinyl Chloride	2.518	62	14315	5.122	ug/l	99
5) Bromomethane	2.959	94	8013	5.491	ug/l	98
6) Chloroethane	3.124	64	9935	5.332	ug/l #	84
7) Trichlorofluoromethane	3.500	101	16921	5.129	ug/l	94
8) Diethyl Ether	3.953	74	7189	5.162	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	10150	5.005	ug/l	77
10) 1,1-Dichloroethene	4.341	96	10844	5.224	ug/l	96
11) Methyl Iodide	4.589	142	11741	4.834	ug/l	99
12) Methyl Acetate	5.018	43	13511	4.592	ug/l	93
13) Acrolein	4.183	56	6900	28.215	ug/l	86
14) Acrylonitrile	5.712	53	26695	24.377	ug/l	98
15) Acetone	4.430	58	7975	26.429	ug/l	79
16) Carbon Disulfide	4.712	76	31017	5.670	ug/l	97
17) Allyl chloride	5.018	41	17686m	5.328	ug/l	
18) Methylene Chloride	5.283	84	12377m	5.236	ug/l	
19) trans-1,2-Dichloroethene	5.788	96	11694m	5.285	ug/l	
20) Diisopropyl ether	6.671	45	39066	4.950	ug/l	94
21) 1,1-Dichloroethane	6.559	63	22218	5.143	ug/l	96
22) cis-1,2-Dichloroethene	7.482	96	14319	5.176	ug/l	96
23) tert-Butyl Alcohol	5.518	59	11367m	26.795	ug/l	
24) Methyl tert-Butyl Ether	5.794	73	38714	5.048	ug/l	96
25) Chloroform	7.959	83	22497	5.145	ug/l	99
26) Cyclohexane	8.253	56	20215	5.300	ug/l #	95
29) 1,1-Dichloropropene	8.365	75	15773	4.916	ug/l	87
30) 2-Butanone	7.477	43	37820	24.283	ug/l #	95
31) 2,2-Dichloropropane	7.488	77	20892	5.065	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	19441	5.070	ug/l	99
33) Carbon Tetrachloride	8.359	117	15492	4.908	ug/l	92
34) Benzene	8.600	78	51159	5.013	ug/l #	88
35) Methacrylonitrile	7.777	41	8219	4.626	ug/l	91
36) 1,2-Dichloroethane	8.665	62	16569	5.000	ug/l	100
37) Trichloroethene	9.353	130	12434	4.867	ug/l	87
38) Methylcyclohexane	9.594	83	18253	4.925	ug/l	97
39) 1,2-Dichloropropane	9.618	63	13105	5.198	ug/l	96
40) Dibromomethane	9.706	93	8472	5.025	ug/l	94
41) Bromodichloromethane	9.882	83	17604	4.934	ug/l	97
42) Vinyl Acetate	6.600	43	140295	26.004	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	17261	5.600	ug/l	97
44) Isopropyl Acetate	8.682	43	31305	5.352	ug/l	95
45) 1,4-Dioxane	9.694	88	4393	96.252	ug/l #	91
46) Methyl methacrylate	9.676	41	13386	4.961	ug/l	93
47) n-amyl Acetate	12.488	43	22791	4.571	ug/l	98
48) t-1,3-Dichloropropene	10.829	75	18958	4.752	ug/l	90
49) cis-1,3-Dichloropropene	10.312	75	20273	4.819	ug/l	95
50) 1,1,2-Trichloroethane	11.012	97	11391	4.837	ug/l	91
51) Ethyl methacrylate	10.871	69	19126	4.663	ug/l	99
52) 1,3-Dichloropropane	11.159	76	20341	4.887	ug/l	98
53) Dibromochloromethane	11.359	129	12596	4.763	ug/l	99
54) 1,2-Dibromoethane	11.465	107	11656	4.868	ug/l	100
55) 2-Chloroethyl vinyl ether	10.153	63	44387	23.017	ug/l	99
56) Bromoform	12.576	173	7673	4.471	ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	78517	24.901	ug/l	99
59) 2-Hexanone	11.188	43	57648	24.809	ug/l	98
61) Tetrachloroethene	11.100	164	12905	5.193	ug/l	95
62) Toluene	10.623	91	54989	5.042	ug/l	97
64) Chlorobenzene	11.888	112	34249	5.040	ug/l	93
65) 1,1,1,2-Tetrachloroethane	11.959	131	11318	4.981	ug/l	98
66) Ethyl Benzene	11.959	91	60268	4.909	ug/l	100
67) m/p-Xylenes	12.065	106	46132	9.904	ug/l	100
68) o-Xylene	12.394	106	22418	4.915	ug/l	96
69) Styrene	12.406	104	35329	4.570	ug/l	98
70) Isopropylbenzene	12.694	105	54240	4.764	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	15250	5.087	ug/l	100
72) 1,2,3-Trichloropropane	12.988	75	12969m	4.993	ug/l	
73) Bromobenzene	12.976	156	12582	4.807	ug/l	97
74) n-propylbenzene	13.029	91	62642	4.630	ug/l	99
75) 2-Chlorotoluene	13.117	91	41015	4.856	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	43366	4.642	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	6133	4.624	ug/l	95
78) 4-Chlorotoluene	13.217	91	39565	4.685	ug/l	100
79) tert-butylbenzene	13.435	119	38515	4.814	ug/l	97
80) 1,2,4-Trimethylbenzene	13.476	105	44636	4.679	ug/l	100
81) sec-Butylbenzene	13.611	105	54186	4.745	ug/l	100
82) p-Isopropyltoluene	13.723	119	42872	4.486	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	22737	4.595	ug/l	98
84) 1,4-Dichlorobenzene	13.811	146	22845	4.673	ug/l	98
85) n-Butylbenzene	14.053	91	37323	4.377	ug/l	99
86) Hexachloroethane	14.323	117	7050	4.512	ug/l	95
87) 1,2-Dichlorobenzene	14.106	146	22541	4.788	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.711	75	2991	4.909	ug/l #	89
89) 1,2,4-Trichlorobenzene	15.829	180	9424	4.392	ug/l	98
90) Hexachlorobutadiene	15.500	225	4341	5.023	ug/l	96
91) Naphthalene	15.635	128	33080	4.306	ug/l	97
92) 1,2,3-Trichlorobenzene	15.829	180	9424	4.392	ug/l	98

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

