

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086375.D
 Acq On : 23 Apr 2025 10:33
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Quant Time: Apr 24 04:22:47 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

Manual Integrations APPROVED

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

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

Internal Standards						
1) Bromochloromethane	7.818	128	13512	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	80323	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	72026	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	39618	30.412	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.367%			
60) 4-Bromofluorobenzene	12.847	95	41345	29.206	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.367%			
63) Toluene-d8	10.565	98	119084	30.053	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.167%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	50246	53.863	ug/l	98
3) Chloromethane	2.359	50	70736	53.382	ug/l	96
4) Vinyl Chloride	2.518	62	69134	54.473	ug/l	100
5) Bromomethane	2.965	94	36731	55.434	ug/l	93
6) Chloroethane	3.124	64	45596	53.890	ug/l	96
7) Trichlorofluoromethane	3.500	101	78026	52.085	ug/l	96
8) Diethyl Ether	3.959	74	33970	53.720	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.377	101	48609	52.780	ug/l	98
10) 1,1-Dichloroethene	4.348	96	49060	52.045	ug/l	95
11) Methyl Iodide	4.589	142	61123	55.418	ug/l	96
12) Methyl Acetate	5.024	43	73602	55.088	ug/l	99
13) Acrolein	4.183	56	27836	553.763	ug/l	98
14) Acrylonitrile	5.718	53	140606	282.758	ug/l	99
15) Acetone	4.424	58	34860	254.408	ug/l	98
16) Carbon Disulfide	4.712	76	136732	55.047	ug/l	100
17) Allyl chloride	5.024	41	80613	53.483	ug/l	96
18) Methylene Chloride	5.283	84	58171	54.189	ug/l	94
19) trans-1,2-Dichloroethene	5.783	96	53123	52.873	ug/l	97
20) Diisopropyl ether	6.671	45	189826	52.968	ug/l	97
21) 1,1-Dichloroethane	6.565	63	103807	52.916	ug/l	98
22) cis-1,2-Dichloroethene	7.488	96	68217	54.299	ug/l	97
23) tert-Butyl Alcohol	5.506	59	57224m	297.063	ug/l	
24) Methyl tert-Butyl Ether	5.794	73	183310	52.634	ug/l	99
25) Chloroform	7.965	83	105890	53.335	ug/l	98
26) Cyclohexane	8.253	56	94117	54.337	ug/l #	99
29) 1,1-Dichloropropene	8.365	75	74121	52.344	ug/l	98
30) 2-Butanone	7.477	43	189738	276.063	ug/l	99
31) 2,2-Dichloropropane	7.488	77	94371	51.844	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	90132	53.266	ug/l	98
33) Carbon Tetrachloride	8.359	117	73363	52.666	ug/l	98
34) Benzene	8.600	78	240457	53.389	ug/l	97
35) Methacrylonitrile	7.777	41	43266	55.185	ug/l	99
36) 1,2-Dichloroethane	8.665	62	78707	53.826	ug/l	100
37) Trichloroethene	9.353	130	58391	51.788	ug/l	90
38) Methylcyclohexane	9.594	83	91136	55.726	ug/l	100
39) 1,2-Dichloropropane	9.618	63	59252	53.253	ug/l	99
40) Dibromomethane	9.706	93	40177	53.995	ug/l	97
41) Bromodichloromethane	9.882	83	85632	54.383	ug/l	97
42) Vinyl Acetate	6.600	43	672068	282.278	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	73764	54.233	ug/l	100
44) Isopropyl Acetate	8.682	43	139020	53.853	ug/l	100
45) 1,4-Dioxane	9.694	88	23621	1172.775	ug/l	93
46) Methyl methacrylate	9.677	41	64064	53.801	ug/l	96
47) n-amyl Acetate	12.488	43	116230	52.826	ug/l	99
48) t-1,3-Dichloropropene	10.835	75	93487	53.106	ug/l	98
49) cis-1,3-Dichloropropene	10.312	75	100486	54.128	ug/l	97
50) 1,1,2-Trichloroethane	11.012	97	55567	53.465	ug/l	98
51) Ethyl methacrylate	10.871	69	97327	53.769	ug/l	98
52) 1,3-Dichloropropane	11.159	76	99270	54.043	ug/l	99
53) Dibromochloromethane	11.353	129	62149	53.254	ug/l	99
54) 1,2-Dibromoethane	11.465	107	57423	54.340	ug/l	99
55) 2-Chloroethyl vinyl ether	10.153	63	291740	342.811	ug/l	99
56) Bromoform	12.576	173	40183	53.059	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	398801	286.124	ug/l	100
59) 2-Hexanone	11.194	43	293296	285.548	ug/l	99
61) Tetrachloroethene	11.100	164	59866	54.496	ug/l	97
62) Toluene	10.629	91	258243	53.565	ug/l	98
64) Chlorobenzene	11.888	112	161540	53.774	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	54925	54.682	ug/l	99
66) Ethyl Benzene	11.959	91	294809	54.326	ug/l	100
67) m/p-Xylenes	12.065	106	224231	108.901	ug/l	99
68) o-Xylene	12.394	106	110001	54.562	ug/l	98
69) Styrene	12.406	104	182394	53.376	ug/l	99
70) Isopropylbenzene	12.688	105	281964	56.027	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	76604	57.809	ug/l	100
72) 1,2,3-Trichloropropane	12.988	75	63282m	55.112	ug/l	
73) Bromobenzene	12.976	156	61945	53.539	ug/l	98
74) n-propylbenzene	13.029	91	334105	55.868	ug/l	100
75) 2-Chlorotoluene	13.123	91	206495	55.313	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	233299	56.498	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	32072	54.702	ug/l	95
78) 4-Chlorotoluene	13.217	91	203884	54.621	ug/l	100
79) tert-butylbenzene	13.435	119	201611	57.009	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	233526	55.375	ug/l	98
81) sec-Butylbenzene	13.612	105	280834	55.631	ug/l	99
82) p-Isopropyltoluene	13.723	119	232995	55.157	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	117870	53.893	ug/l	99
84) 1,4-Dichlorobenzene	13.806	146	116761	54.033	ug/l	100
85) n-Butylbenzene	14.053	91	199163	52.839	ug/l	98
86) Hexachloroethane	14.329	117	37387	54.128	ug/l	100
87) 1,2-Dichlorobenzene	14.100	146	115779	55.635	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	15399	57.172	ug/l	97
89) 1,2,4-Trichlorobenzene	15.835	180	52068	54.896	ug/l	98
90) Hexachlorobutadiene	15.494	225	21013	55.000	ug/l	98
91) Naphthalene	15.635	128	188462	55.500	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	52068	54.896	ug/l	98

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

