

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042125\
 Data File : VN086354.D
 Acq On : 21 Apr 2025 09:51
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: Apr 22 01:47:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

04/22/2025
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	7.812	128	33043	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	203347	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	185620	30.000	ug/l	0.00

04/22/2025

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	99683	30.929	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.100%
60) 4-Bromofluorobenzene	12.847	95	109968	29.756	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	99.200%
63) Toluene-d8	10.565	98	307379	29.332	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.767%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	58482	22.090	ug/l	98
3) Chloromethane	2.359	50	77764	21.252	ug/l	100
4) Vinyl Chloride	2.512	62	74476	21.368	ug/l	98
5) Bromomethane	2.959	94	37395	21.509	ug/l	99
6) Chloroethane	3.124	64	48092	21.851	ug/l	97
7) Trichlorofluoromethane	3.500	101	83262	22.022	ug/l	95
8) Diethyl Ether	3.959	74	34585	19.835	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.365	101	51544	22.108	ug/l	98
10) 1,1-Dichloroethene	4.342	96	52336	20.800	ug/l	95
11) Methyl Iodide	4.589	142	58704	20.300	ug/l	100
12) Methyl Acetate	5.024	43	75951	21.376	ug/l	96
13) Acrolein	4.177	56	31705	78.501	ug/l	99
14) Acrylonitrile	5.712	53	140389	93.594	ug/l	98
15) Acetone	4.424	58	41516	109.159	ug/l	93
16) Carbon Disulfide	4.712	76	144635	20.047	ug/l	98
17) Allyl chloride	5.018	41	85397	19.473	ug/l	94
18) Methylene Chloride	5.271	84	59199	20.636	ug/l	96
19) trans-1,2-Dichloroethene	5.783	96	53708	20.265	ug/l	94
20) Diisopropyl ether	6.671	45	195636	20.751	ug/l	96
21) 1,1-Dichloroethane	6.571	63	106452	21.163	ug/l	98
22) cis-1,2-Dichloroethene	7.482	96	66337	21.012	ug/l	100
23) tert-Butyl Alcohol	5.512	59	58832	94.658	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	188846	20.798	ug/l	98
25) Chloroform	7.959	83	105063	21.904	ug/l	99
26) Cyclohexane	8.253	56	96368	20.478	ug/l #	97
29) 1,1-Dichloropropene	8.371	75	76481	20.995	ug/l	99
30) 2-Butanone	7.477	43	202023	100.086	ug/l	98
31) 2,2-Dichloropropane	7.488	77	98946	22.067	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	91310	21.791	ug/l	100
33) Carbon Tetrachloride	8.353	117	75053	22.412	ug/l	96
34) Benzene	8.600	78	244447	21.093	ug/l	96
35) Methacrylonitrile	7.771	41	44651	19.622	ug/l	96
36) 1,2-Dichloroethane	8.665	62	79804	22.005	ug/l	96
37) Trichloroethene	9.347	130	59275	21.198	ug/l	94
38) Methylcyclohexane	9.594	83	91470	20.474	ug/l	99
39) 1,2-Dichloropropane	9.618	63	60048	20.823	ug/l	99
40) Dibromomethane	9.706	93	39383	21.145	ug/l	97
41) Bromodichloromethane	9.882	83	85916	21.473	ug/l	99
42) Vinyl Acetate	6.600	43	679942	98.960	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	74860	18.387	ug/l	97
44) Isopropyl Acetate	8.682	43	144287	19.103	ug/l	100
45) 1,4-Dioxane	9.688	88	24862	413.952	ug/l #	95
46) Methyl methacrylate	9.676	41	66816	20.077	ug/l	95
47) n-amyl Acetate	12.488	43	126153	21.066	ug/l	98
48) t-1,3-Dichloropropene	10.829	75	94147	20.813	ug/l	95
49) cis-1,3-Dichloropropene	10.306	75	101104	21.118	ug/l	96
50) 1,1,2-Trichloroethane	11.012	97	54889	21.012	ug/l	98
51) Ethyl methacrylate	10.871	69	101035	20.813	ug/l	95
52) 1,3-Dichloropropane	11.159	76	98998	21.263	ug/l	99
53) Dibromochloromethane	11.359	129	61767	21.617	ug/l	99
54) 1,2-Dibromoethane	11.465	107	57416	21.774	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	235338	128.296	ug/l	99
56) Bromoform	12.576	173	41931	22.430	ug/l #	98
58) 4-Methyl-2-Pentanone	10.441	43	406943	96.608	ug/l	99
59) 2-Hexanone	11.194	43	300985	95.959	ug/l	100
61) Tetrachloroethene	11.100	164	58504	21.343	ug/l	97
62) Toluene	10.629	91	268994	21.606	ug/l	99
64) Chlorobenzene	11.888	112	163663	21.516	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	55198	21.989	ug/l	99
66) Ethyl Benzene	11.959	91	296713	21.490	ug/l	97
67) m/p-Xylenes	12.070	106	223434	43.520	ug/l	99
68) o-Xylene	12.394	106	111170	22.014	ug/l	99
69) Styrene	12.406	104	187270	21.989	ug/l	99
70) Isopropylbenzene	12.694	105	276227	22.185	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	77478	21.861	ug/l	97
72) 1,2,3-Trichloropropane	12.988	75	75770m	20.539	ug/l	
73) Bromobenzene	12.976	156	62854	22.787	ug/l	92
74) n-propylbenzene	13.029	91	329787	22.431	ug/l	99
75) 2-Chlorotoluene	13.123	91	202859	21.951	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	228362	22.327	ug/l	100
77) t-1,4-Dichloro-2-butene	12.729	75	33783	19.860	ug/l	95
78) 4-Chlorotoluene	13.217	91	202653	21.957	ug/l	99
79) tert-butylbenzene	13.435	119	191859	21.678	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	230350	22.210	ug/l	99
81) sec-Butylbenzene	13.611	105	279991	22.680	ug/l	99
82) p-Isopropyltoluene	13.723	119	231741	22.502	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	117411	22.902	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	114379	22.239	ug/l	99
85) n-Butylbenzene	14.053	91	207118	22.293	ug/l	99
86) Hexachloroethane	14.329	117	37944	21.841	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	112813	22.286	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	15740	19.499	ug/l	99
89) 1,2,4-Trichlorobenzene	15.835	180	49941	20.277	ug/l	97
90) Hexachlorobutadiene	15.494	225	21279	20.010	ug/l	98
91) Naphthalene	15.635	128	185305	19.082	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	49941	20.277	ug/l	97

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

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