

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030425\
 Data File : VX045125.D
 Acq On : 04 Mar 2025 15:31
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/05/2025
 Supervised By : Mahesh Dadoda 03/05/2025

Quant Time: Mar 05 00:48:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 22 01:06:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.891	128	17039	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.751	114	90722	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	83074	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.940	65	49783	30.082	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.267%			
60) 4-Bromofluorobenzene	11.079	95	46160	29.728	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.100%			
63) Toluene-d8	8.641	98	138696	30.179	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.600%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	27893	19.419	ug/l	94
3) Chloromethane	1.301	50	33050	19.211	ug/l	98
4) Vinyl Chloride	1.368	62	30698	18.492	ug/l	100
5) Bromomethane	1.593	94	12692	21.964	ug/l	90
6) Chloroethane	1.672	64	16141	17.952	ug/l	96
7) Trichlorofluoromethane	1.880	101	44018	19.729	ug/l	94
8) Diethyl Ether	2.130	74	15305	18.130	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	25846	19.504	ug/l	99
10) 1,1-Dichloroethene	2.313	96	25136	19.420	ug/l	90
11) Methyl Iodide	2.447	142	29659	20.245	ug/l	98
12) Methyl Acetate	2.697	43	37238	24.775	ug/l	98
13) Acrolein	2.233	56	31983	106.158	ug/l	98
14) Acrylonitrile	3.056	53	76577	104.303	ug/l	98
15) Acetone	2.374	58	19696	97.817	ug/l	88
16) Carbon Disulfide	2.502	76	65127	17.739	ug/l	99
17) Allyl chloride	2.654	41	44963	18.573	ug/l	97
18) Methylene Chloride	2.782	84	28501	19.577	ug/l	91
19) trans-1,2-Dichloroethene	3.087	96	24580	18.770	ug/l	97
20) Diisopropyl ether	3.751	45	88742	19.075	ug/l	97
21) 1,1-Dichloroethane	3.599	63	49991	19.322	ug/l	98
22) cis-1,2-Dichloroethene	4.477	96	30270	19.289	ug/l	98
23) tert-Butyl Alcohol	2.959	59	25817	100.728	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	82177	19.452	ug/l	99
25) Chloroform	5.074	83	49777	19.918	ug/l	99
26) Cyclohexane	5.458	56	44696	18.715	ug/l #	98
29) 1,1-Dichloropropene	5.678	75	32854	19.687	ug/l	99
30) 2-Butanone	4.544	43	106144	110.117	ug/l	99
31) 2,2-Dichloropropane	4.465	77	32474	17.209	ug/l	97
32) 1,1,1-Trichloroethane	5.367	97	41461	20.505	ug/l	97
33) Carbon Tetrachloride	5.660	117	35708	20.925	ug/l	97
34) Benzene	6.025	78	106832	20.413	ug/l	99
35) Methacrylonitrile	4.916	41	22207	21.529	ug/l	97
36) 1,2-Dichloroethane	6.074	62	37134	20.725	ug/l	98
37) Trichloroethene	7.117	130	24826	20.277	ug/l	88
38) Methylcyclohexane	7.373	83	42891	19.141	ug/l	99
39) 1,2-Dichloropropane	7.421	63	25565	19.649	ug/l	100
40) Dibromomethane	7.574	93	18903	20.246	ug/l	96
41) Bromodichloromethane	7.812	83	38290	20.634	ug/l	99
42) Vinyl Acetate	3.715	43	364476	97.440	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.702	43	37407	20.693	ug/l	98
44) Isopropyl Acetate	6.330	43	61793	20.770	ug/l	97
45) 1,4-Dioxane	7.653	88	12764	412.697	ug/l	99
46) Methyl methacrylate	7.690	41	29753	20.394	ug/l	97
47) n-amyl Acetate	10.842	43	51922	20.111	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	33099	18.505	ug/l	98
49) cis-1,3-Dichloropropene	8.360	75	39066	19.294	ug/l	99
50) 1,1,2-Trichloroethane	9.147	97	25209	20.699	ug/l	99
51) Ethyl methacrylate	9.110	69	37192	19.418	ug/l	99
52) 1,3-Dichloropropane	9.305	76	44019	20.628	ug/l	97
53) Dibromochloromethane	9.519	129	27962	20.760	ug/l	99
54) 1,2-Dibromoethane	9.604	107	25760	20.830	ug/l	98
55) 2-Chloroethyl vinyl ether	8.232	63	95602	97.196	ug/l	100
56) Bromoform	10.799	173	18101	21.446	ug/l	99
58) 4-Methyl-2-Pentanone	8.568	43	209806	111.023	ug/l	99
59) 2-Hexanone	9.427	43	151991	111.272	ug/l	99
61) Tetrachloroethene	9.269	164	21430	20.949	ug/l	97
62) Toluene	8.714	91	111462	20.254	ug/l	98
64) Chlorobenzene	10.073	112	69608	20.412	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	22815	20.276	ug/l	97
66) Ethyl Benzene	10.189	91	122570	20.344	ug/l	98
67) m/p-Xylenes	10.299	106	92595	41.249	ug/l	98
68) o-Xylene	10.640	106	44034	19.993	ug/l	97
69) Styrene	10.653	104	74979	20.383	ug/l	99
70) Isopropylbenzene	10.957	105	117214	20.623	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.207	83	41044	21.960	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	32568m	21.186	ug/l	
73) Bromobenzene	11.195	156	27319	20.879	ug/l	98
74) n-propylbenzene	11.299	91	137923	20.392	ug/l	99
75) 2-Chlorotoluene	11.360	91	83863	20.509	ug/l	100
76) 1,3,5-Trimethylbenzene	11.445	105	97374	20.767	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	9456	18.283	ug/l	89
78) 4-Chlorotoluene	11.451	91	93694	20.555	ug/l	99
79) tert-butylbenzene	11.713	119	99947	21.155	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	94785	20.180	ug/l	97
81) sec-Butylbenzene	11.884	105	124498	20.997	ug/l	99
82) p-Isopropyltoluene	12.006	119	100504	20.920	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	49946	20.516	ug/l	97
84) 1,4-Dichlorobenzene	12.036	146	49338	20.555	ug/l	98
85) n-Butylbenzene	12.329	91	87669	19.983	ug/l	99
86) Hexachloroethane	12.536	117	17204	20.305	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	51834	21.700	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	7670	21.196	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	29327	20.257	ug/l	99
90) Hexachlorobutadiene	13.725	225	12588	21.321	ug/l	97
91) Naphthalene	13.774	128	104032	20.379	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	29995	20.125	ug/l	97

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

