

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031925\
 Data File : VX045345.D
 Acq On : 19 Mar 2025 14:56
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/20/2025
 Supervised By : Mahesh Dadoda 03/20/2025

Quant Time: Mar 20 01:35:07 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	15621	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.751	114	84506	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	78810	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	50968	33.593	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 111.967%#			
60) 4-Bromofluorobenzene	11.079	95	45387	30.811	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.700%			
63) Toluene-d8	8.641	98	130430	29.916	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.733%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.167	85	26379	20.032	ug/l	98
3) Chloromethane	1.307	50	28921	18.337	ug/l	98
4) Vinyl Chloride	1.374	62	25363	16.665	ug/l	98
5) Bromomethane	1.593	94	12328	23.271	ug/l	91
6) Chloroethane	1.666	64	14495	17.585	ug/l	93
7) Trichlorofluoromethane	1.874	101	38865	19.000	ug/l	94
8) Diethyl Ether	2.130	74	13638	17.622	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	24629	20.273	ug/l	96
10) 1,1-Dichloroethene	2.313	96	23407	19.725	ug/l	92
11) Methyl Iodide	2.441	142	27024	20.121	ug/l	95
12) Methyl Acetate	2.697	43	46084	33.443	ug/l	98
13) Acrolein	2.233	56	28299	102.457	ug/l	97
14) Acrylonitrile	3.056	53	76228	113.252	ug/l	97
15) Acetone	2.380	58	19377	104.969	ug/l	85
16) Carbon Disulfide	2.502	76	53708	15.957	ug/l	99
17) Allyl chloride	2.654	41	43812	19.740	ug/l	97
18) Methylene Chloride	2.782	84	26988	20.220	ug/l	95
19) trans-1,2-Dichloroethene	3.081	96	23748	19.781	ug/l	93
20) Diisopropyl ether	3.751	45	85599	20.070	ug/l	99
21) 1,1-Dichloroethane	3.599	63	49231	20.755	ug/l	99
22) cis-1,2-Dichloroethene	4.477	96	28882	20.076	ug/l	99
23) tert-Butyl Alcohol	2.959	59	23389	99.538	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	80184	20.703	ug/l	95
25) Chloroform	5.080	83	48866	21.329	ug/l	100
26) Cyclohexane	5.458	56	41216	18.825	ug/l #	96
29) 1,1-Dichloropropene	5.678	75	30483	19.609	ug/l	98
30) 2-Butanone	4.550	43	106414	118.518	ug/l	100
31) 2,2-Dichloropropane	4.459	77	32645	18.572	ug/l	99
32) 1,1,1-Trichloroethane	5.367	97	39786	21.124	ug/l	98
33) Carbon Tetrachloride	5.666	117	33988	21.382	ug/l	98
34) Benzene	6.025	78	100378	20.591	ug/l	97
35) Methacrylonitrile	4.910	41	22400	23.314	ug/l	99
36) 1,2-Dichloroethane	6.074	62	39328	23.564	ug/l	95
37) Trichloroethene	7.117	130	23065	20.224	ug/l	94
38) Methylcyclohexane	7.373	83	40072	19.198	ug/l	99
39) 1,2-Dichloropropane	7.421	63	25418	20.973	ug/l	94
40) Dibromomethane	7.574	93	18804	21.621	ug/l	97
41) Bromodichloromethane	7.812	83	36621	21.186	ug/l #	99
42) Vinyl Acetate	3.715	43	345660	99.207	ug/l	99

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 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)
43) Ethyl Acetate	4.709	43	36226	21.514	ug/l	98
44) Isopropyl Acetate	6.330	43	59745	21.558	ug/l	98
45) 1,4-Dioxane	7.659	88	11316	392.792	ug/l	95
46) Methyl methacrylate	7.690	41	30130	22.172	ug/l	91
47) n-amyl Acetate	10.842	43	50277	20.907	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	32069	19.248	ug/l	100
49) cis-1,3-Dichloropropene	8.360	75	37372	19.815	ug/l	95
50) 1,1,2-Trichloroethane	9.147	97	24606	21.690	ug/l	96
51) Ethyl methacrylate	9.110	69	36714	20.578	ug/l	95
52) 1,3-Dichloropropane	9.305	76	43388	21.828	ug/l	100
53) Dibromochloromethane	9.513	129	26272	20.940	ug/l	95
54) 1,2-Dibromoethane	9.604	107	24698	21.440	ug/l	99
55) 2-Chloroethyl vinyl ether	8.232	63	89229	97.390	ug/l	100
56) Bromoform	10.799	173	17029	21.660	ug/l	98
58) 4-Methyl-2-Pentanone	8.568	43	213980	119.358	ug/l	99
59) 2-Hexanone	9.427	43	158236	122.112	ug/l	98
61) Tetrachloroethene	9.269	164	20058	20.668	ug/l	94
62) Toluene	8.714	91	105422	20.193	ug/l	98
64) Chlorobenzene	10.073	112	65812	20.343	ug/l	95
65) 1,1,1,2-Tetrachloroethane	10.159	131	21892	20.508	ug/l	99
66) Ethyl Benzene	10.189	91	115293	20.171	ug/l	98
67) m/p-Xylenes	10.299	106	85614	40.203	ug/l	96
68) o-Xylene	10.640	106	42514	20.347	ug/l	98
69) Styrene	10.653	104	71207	20.405	ug/l	97
70) Isopropylbenzene	10.957	105	112864	20.932	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	39796	22.445	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	33380m	22.889	ug/l	
73) Bromobenzene	11.195	156	25893	20.860	ug/l	99
74) n-propylbenzene	11.299	91	132747	20.688	ug/l	98
75) 2-Chlorotoluene	11.360	91	80426	20.733	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	93676	21.059	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	9218	18.787	ug/l	78
78) 4-Chlorotoluene	11.451	91	90045	20.823	ug/l	97
79) tert-butylbenzene	11.713	119	94018	20.977	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	92291	20.712	ug/l	100
81) sec-Butylbenzene	11.890	105	117546	20.897	ug/l	100
82) p-Isopropyltoluene	12.006	119	95463	20.946	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	47259	20.463	ug/l	97
84) 1,4-Dichlorobenzene	12.036	146	47029	20.653	ug/l	99
85) n-Butylbenzene	12.329	91	85808	20.617	ug/l	99
86) Hexachloroethane	12.536	117	15974	19.873	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	48384	21.352	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	7970	23.216	ug/l	94
89) 1,2,4-Trichlorobenzene	13.585	180	26858	19.556	ug/l	99
90) Hexachlorobutadiene	13.725	225	11982	21.393	ug/l	99
91) Naphthalene	13.774	128	101062	20.869	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	27295	19.304	ug/l	97

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

