

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031925\
 Data File : VX045342.D
 Acq On : 19 Mar 2025 12:15
 Operator : JC/MD
 Sample : VX0319WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0319WBSD01

Manual Integrations
 APPROVED

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

Quant Time: Mar 20 01:32:59 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	4.885	128	15405	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	77122	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	74535	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	47760	31.920	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	106.400%
60) 4-Bromofluorobenzene	11.079	95	42472	30.486	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	101.633%
63) Toluene-d8	8.647	98	121913	29.566	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.567%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	19620	15.108	ug/l	90
3) Chloromethane	1.307	50	23956	15.402	ug/l	96
4) Vinyl Chloride	1.374	62	21621	14.406	ug/l	99
5) Bromomethane	1.593	94	10158	19.443	ug/l	98
6) Chloroethane	1.666	64	12210	15.021	ug/l	96
7) Trichlorofluoromethane	1.873	101	32316	16.020	ug/l	94
8) Diethyl Ether	2.130	74	11747	15.391	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.312	101	21264	17.748	ug/l	96
10) 1,1-Dichloroethene	2.306	96	19053	16.281	ug/l #	82
11) Methyl Iodide	2.440	142	24157	18.239	ug/l	100
12) Methyl Acetate	2.703	43	42810	31.503	ug/l	99
13) Acrolein	2.233	56	24161	88.702	ug/l	97
14) Acrylonitrile	3.062	53	71203	107.270	ug/l	99
15) Acetone	2.386	58	18620	102.282	ug/l	91
16) Carbon Disulfide	2.501	76	44896	13.526	ug/l	98
17) Allyl chloride	2.654	41	37581	17.170	ug/l	97
18) Methylene Chloride	2.782	84	23434	17.804	ug/l	97
19) trans-1,2-Dichloroethene	3.081	96	19804	16.727	ug/l	87
20) Diisopropyl ether	3.757	45	75506	17.952	ug/l	91
21) 1,1-Dichloroethane	3.599	63	41777	17.860	ug/l	99
22) cis-1,2-Dichloroethene	4.477	96	24514	17.278	ug/l	95
23) tert-Butyl Alcohol	2.977	59	21261	91.751	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	71024	18.595	ug/l	95
25) Chloroform	5.086	83	43100	19.076	ug/l	99
26) Cyclohexane	5.452	56	35407	16.398	ug/l #	99
29) 1,1-Dichloropropene	5.684	75	26888	18.953	ug/l	99
30) 2-Butanone	4.556	43	97680	119.206	ug/l	98
31) 2,2-Dichloropropane	4.464	77	28902	18.017	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	34301	19.955	ug/l	97
33) Carbon Tetrachloride	5.665	117	28765	19.829	ug/l	98
34) Benzene	6.031	78	86029	19.337	ug/l	99
35) Methacrylonitrile	4.916	41	20551	23.437	ug/l	99
36) 1,2-Dichloroethane	6.080	62	34623	22.731	ug/l	97
37) Trichloroethene	7.116	130	19370	18.610	ug/l	85
38) Methylcyclohexane	7.372	83	34492	18.107	ug/l	99
39) 1,2-Dichloropropane	7.427	63	21512	19.449	ug/l	97
40) Dibromomethane	7.574	93	16975	21.387	ug/l	98
41) Bromodichloromethane	7.818	83	32598	20.664	ug/l	98
42) Vinyl Acetate	3.715	43	313074	98.457	ug/l	99

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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	33656	21.902	ug/l	99
44) Isopropyl Acetate	6.336	43	54315	21.475	ug/l	98
45) 1,4-Dioxane	7.659	88	10325	392.707	ug/l	98
46) Methyl methacrylate	7.690	41	27912	22.506	ug/l	96
47) n-amyl Acetate	10.841	43	45053	20.528	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	27952	18.383	ug/l	98
49) cis-1,3-Dichloropropene	8.360	75	33368	19.386	ug/l	95
50) 1,1,2-Trichloroethane	9.147	97	21519	20.785	ug/l	96
51) Ethyl methacrylate	9.116	69	35521	21.816	ug/l	97
52) 1,3-Dichloropropane	9.305	76	38794	21.385	ug/l	99
53) Dibromochloromethane	9.518	129	23254	20.309	ug/l	95
54) 1,2-Dibromoethane	9.610	107	22899	21.782	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	97308	116.377	ug/l	100
56) Bromoform	10.799	173	14853	20.701	ug/l	96
58) 4-Methyl-2-Pentanone	8.567	43	197562	116.520	ug/l	98
59) 2-Hexanone	9.427	43	143492	117.085	ug/l	98
61) Tetrachloroethene	9.268	164	17338	18.890	ug/l	100
62) Toluene	8.714	91	90934	18.417	ug/l	99
64) Chlorobenzene	10.079	112	58036	18.969	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	19074	18.893	ug/l	98
66) Ethyl Benzene	10.189	91	100826	18.652	ug/l	97
67) m/p-Xylenes	10.299	106	76026	37.748	ug/l	98
68) o-Xylene	10.640	106	37375	18.914	ug/l	97
69) Styrene	10.652	104	63021	19.095	ug/l	98
70) Isopropylbenzene	10.957	105	98479	19.312	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	35961	21.445	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	29280m	21.229	ug/l	
73) Bromobenzene	11.195	156	22829	19.446	ug/l	98
74) n-propylbenzene	11.299	91	114810	18.919	ug/l	99
75) 2-Chlorotoluene	11.360	91	70623	19.250	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	81283	19.321	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	8305	17.897	ug/l	73
78) 4-Chlorotoluene	11.451	91	77762	19.014	ug/l	98
79) tert-butylbenzene	11.713	119	81369	19.196	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	81476	19.334	ug/l	99
81) sec-Butylbenzene	11.890	105	103882	19.527	ug/l	98
82) p-Isopropyltoluene	12.006	119	82311	19.096	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	41173	18.850	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	40932	19.006	ug/l	99
85) n-Butylbenzene	12.329	91	71547	18.177	ug/l	99
86) Hexachloroethane	12.536	117	13631	17.931	ug/l	96
87) 1,2-Dichlorobenzene	12.335	146	40418	18.859	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.939	75	7027	21.644	ug/l	94
89) 1,2,4-Trichlorobenzene	13.585	180	23006	17.712	ug/l	97
90) Hexachlorobutadiene	13.725	225	10215	19.284	ug/l	99
91) Naphthalene	13.774	128	87558	19.117	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	23693	17.718	ug/l	98

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

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