

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031425\
 Data File : VX045287.D
 Acq On : 14 Mar 2025 11:17
 Operator : JC/MD
 Sample : VX0314WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0314WBS02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/18/2025
 Supervised By : Mahesh Dadoda 03/18/2025

Quant Time: Mar 15 03:54:04 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	15455	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	84827	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	78922	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	50926	33.926	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 113.100%#			
60) 4-Bromofluorobenzene	11.079	95	45222	30.656	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.200%			
63) Toluene-d8	8.647	98	131725	30.170	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.567%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	23183	17.794	ug/l	95
3) Chloromethane	1.301	50	25092	16.080	ug/l	98
4) Vinyl Chloride	1.374	62	23710	15.746	ug/l	98
5) Bromomethane	1.593	94	10553	20.134	ug/l	91
6) Chloroethane	1.666	64	13169	16.148	ug/l	93
7) Trichlorofluoromethane	1.874	101	35006	17.298	ug/l	98
8) Diethyl Ether	2.136	74	12259	16.010	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	22381	18.620	ug/l	96
10) 1,1-Dichloroethene	2.306	96	20636	17.577	ug/l	86
11) Methyl Iodide	2.441	142	25873	19.471	ug/l	96
12) Methyl Acetate	2.703	43	40726	29.872	ug/l	100
13) Acrolein	2.233	56	27101	99.173	ug/l	98
14) Acrylonitrile	3.062	53	72866	109.420	ug/l	99
15) Acetone	2.380	58	20458	112.015	ug/l	91
16) Carbon Disulfide	2.502	76	49040	14.726	ug/l	99
17) Allyl chloride	2.654	41	38966	17.745	ug/l	98
18) Methylene Chloride	2.782	84	24159	18.295	ug/l	99
19) trans-1,2-Dichloroethene	3.087	96	20787	17.500	ug/l	94
20) Diisopropyl ether	3.757	45	76753	18.189	ug/l	90
21) 1,1-Dichloroethane	3.605	63	43600	18.579	ug/l	98
22) cis-1,2-Dichloroethene	4.483	96	25238	17.731	ug/l	96
23) tert-Butyl Alcohol	2.971	59	23298	100.216	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	72496	18.919	ug/l	98
25) Chloroform	5.086	83	43950	19.389	ug/l	93
26) Cyclohexane	5.464	56	37274	17.207	ug/l #	98
29) 1,1-Dichloropropene	5.684	75	28530	18.284	ug/l	99
30) 2-Butanone	4.556	43	104067	115.465	ug/l	98
31) 2,2-Dichloropropane	4.465	77	28678	16.253	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	35418	18.733	ug/l	97
33) Carbon Tetrachloride	5.672	117	29469	18.469	ug/l	92
34) Benzene	6.031	78	90468	18.488	ug/l	99
35) Methacrylonitrile	4.916	41	21098	21.875	ug/l	98
36) 1,2-Dichloroethane	6.086	62	35163	20.989	ug/l	95
37) Trichloroethene	7.117	130	20700	18.082	ug/l	95
38) Methylcyclohexane	7.373	83	36309	17.330	ug/l	99
39) 1,2-Dichloropropane	7.427	63	22652	18.620	ug/l	97
40) Dibromomethane	7.580	93	17548	20.101	ug/l	95
41) Bromodichloromethane	7.818	83	34079	19.641	ug/l	95
42) Vinyl Acetate	3.715	43	323998	92.638	ug/l	99

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 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	4.708	43	36819	21.784	ug/l #	82
44) Isopropyl Acetate	6.342	43	56348	20.256	ug/l	97
45) 1,4-Dioxane	7.659	88	10810	373.808	ug/l	97
46) Methyl methacrylate	7.690	41	28256	20.714	ug/l	92
47) n-amyl Acetate	10.842	43	45789	18.968	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	27614	16.511	ug/l	99
49) cis-1,3-Dichloropropene	8.360	75	33289	17.583	ug/l	96
50) 1,1,2-Trichloroethane	9.147	97	23040	20.233	ug/l	95
51) Ethyl methacrylate	9.116	69	34682	19.366	ug/l	94
52) 1,3-Dichloropropane	9.305	76	39459	19.776	ug/l	100
53) Dibromochloromethane	9.519	129	24177	19.197	ug/l	97
54) 1,2-Dibromoethane	9.610	107	22893	19.798	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	92478	100.554	ug/l	98
56) Bromoform	10.799	173	15124	19.164	ug/l	97
58) 4-Methyl-2-Pentanone	8.574	43	203807	113.522	ug/l	98
59) 2-Hexanone	9.427	43	145031	111.763	ug/l	98
61) Tetrachloroethene	9.269	164	17967	18.488	ug/l	95
62) Toluene	8.714	91	94115	18.002	ug/l	98
64) Chlorobenzene	10.079	112	59022	18.218	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	19523	18.263	ug/l	99
66) Ethyl Benzene	10.189	91	103917	18.155	ug/l	94
67) m/p-Xylenes	10.299	106	77736	36.452	ug/l	97
68) o-Xylene	10.640	106	37522	17.933	ug/l	97
69) Styrene	10.653	104	63735	18.238	ug/l	97
70) Isopropylbenzene	10.957	105	100479	18.608	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	36591	20.608	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	29793m	20.400	ug/l	
73) Bromobenzene	11.195	156	23657	19.032	ug/l	97
74) n-propylbenzene	11.299	91	117322	18.258	ug/l	99
75) 2-Chlorotoluene	11.360	91	72828	18.747	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	82031	18.415	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	8672	17.649	ug/l	81
78) 4-Chlorotoluene	11.451	91	80633	18.620	ug/l	98
79) tert-butylbenzene	11.713	119	83111	18.517	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	82996	18.600	ug/l	99
81) sec-Butylbenzene	11.890	105	104899	18.622	ug/l	98
82) p-Isopropyltoluene	12.006	119	83571	18.310	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	41935	18.132	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	41002	17.980	ug/l	99
85) n-Butylbenzene	12.329	91	72576	17.413	ug/l	100
86) Hexachloroethane	12.536	117	14282	17.743	ug/l	93
87) 1,2-Dichlorobenzene	12.335	146	41939	18.481	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	7187	20.906	ug/l	92
89) 1,2,4-Trichlorobenzene	13.585	180	23184	16.857	ug/l	96
90) Hexachlorobutadiene	13.725	225	10256	18.285	ug/l	98
91) Naphthalene	13.774	128	86671	17.871	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	24210	17.098	ug/l	98

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

