

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030425\
 Data File : VX045121.D
 Acq On : 04 Mar 2025 09:41
 Operator : JC/MD
 Sample : VX0304WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0304WBSD01

Manual Integrations
 APPROVED

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

Quant Time: Mar 05 00:45:20 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	14793	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.750	114	81282	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	75372	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	45282	31.516	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 105.067%		
60) 4-Bromofluorobenzene	11.079	95	42756	30.349	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 101.167%		
63) Toluene-d8	8.646	98	126508	30.340	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 101.133%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	23135	18.552	ug/l	99
3) Chloromethane	1.300	50	27375	18.328	ug/l	96
4) Vinyl Chloride	1.373	62	26022	18.055	ug/l	97
5) Bromomethane	1.593	94	10203	20.338	ug/l	93
6) Chloroethane	1.660	64	11600	14.860	ug/l	99
7) Trichlorofluoromethane	1.867	101	36943	19.072	ug/l	97
8) Diethyl Ether	2.129	74	13792	18.818	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.318	101	22143	19.247	ug/l	99
10) 1,1-Dichloroethene	2.306	96	20916	18.613	ug/l	90
11) Methyl Iodide	2.446	142	24115	18.960	ug/l	99
12) Methyl Acetate	2.702	43	31397	24.060	ug/l	99
13) Acrolein	2.233	56	29726	113.647	ug/l	100
14) Acrylonitrile	3.062	53	66711	104.660	ug/l	100
15) Acetone	2.385	58	18353	104.986	ug/l	93
16) Carbon Disulfide	2.501	76	52749	16.549	ug/l	99
17) Allyl chloride	2.654	41	38967	18.540	ug/l	97
18) Methylene Chloride	2.782	84	24261	19.194	ug/l	96
19) trans-1,2-Dichloroethene	3.080	96	21909	19.270	ug/l	97
20) Diisopropyl ether	3.757	45	78443	19.421	ug/l	88
21) 1,1-Dichloroethane	3.599	63	43232	19.246	ug/l	98
22) cis-1,2-Dichloroethene	4.476	96	26340	19.334	ug/l	98
23) tert-Butyl Alcohol	2.989	59	21294	95.695	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	71829	19.584	ug/l	99
25) Chloroform	5.086	83	43931	20.248	ug/l	98
26) Cyclohexane	5.458	56	39361	18.984	ug/l #	97
29) 1,1-Dichloropropene	5.684	75	28809	19.268	ug/l	98
30) 2-Butanone	4.556	43	91465	105.909	ug/l #	96
31) 2,2-Dichloropropane	4.464	77	30717	18.168	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	34958	19.296	ug/l	100
33) Carbon Tetrachloride	5.665	117	29590	19.354	ug/l	98
34) Benzene	6.031	78	91887	19.597	ug/l	99
35) Methacrylonitrile	4.915	41	19577	21.184	ug/l	95
36) 1,2-Dichloroethane	6.080	62	32643	20.334	ug/l	96
37) Trichloroethene	7.116	130	21105	19.240	ug/l	98
38) Methylcyclohexane	7.372	83	39303	19.577	ug/l	96
39) 1,2-Dichloropropane	7.421	63	22893	19.638	ug/l	95
40) Dibromomethane	7.580	93	17017	20.343	ug/l	99
41) Bromodichloromethane	7.817	83	33097	19.907	ug/l	98
42) Vinyl Acetate	3.714	43	321395	95.901	ug/l	100

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 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	33662	20.784	ug/l	96
44) Isopropyl Acetate	6.336	43	53144	19.937	ug/l	99
45) 1,4-Dioxane	7.665	88	10607	382.785	ug/l	99
46) Methyl methacrylate	7.689	41	26248	20.082	ug/l	96
47) n-amyl Acetate	10.841	43	44640	19.299	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	27918	17.421	ug/l	97
49) cis-1,3-Dichloropropene	8.360	75	34372	18.947	ug/l	98
50) 1,1,2-Trichloroethane	9.146	97	22822	20.916	ug/l	93
51) Ethyl methacrylate	9.116	69	34226	19.944	ug/l	97
52) 1,3-Dichloropropane	9.305	76	40040	20.943	ug/l	99
53) Dibromochloromethane	9.518	129	24103	19.973	ug/l	97
54) 1,2-Dibromoethane	9.604	107	22588	20.386	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	87367	99.140	ug/l	99
56) Bromoform	10.798	173	14863	19.655	ug/l	98
58) 4-Methyl-2-Pentanone	8.567	43	180161	105.077	ug/l	99
59) 2-Hexanone	9.427	43	128928	104.033	ug/l	100
61) Tetrachloroethene	9.268	164	18962	20.430	ug/l	91
62) Toluene	8.713	91	97931	19.614	ug/l	99
64) Chlorobenzene	10.079	112	62259	20.123	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.158	131	20125	19.713	ug/l	100
66) Ethyl Benzene	10.189	91	109202	19.977	ug/l	98
67) m/p-Xylenes	10.299	106	81797	40.163	ug/l	98
68) o-Xylene	10.640	106	39373	19.703	ug/l	97
69) Styrene	10.652	104	65299	19.565	ug/l	99
70) Isopropylbenzene	10.957	105	103917	20.152	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	35084	20.690	ug/l	99
72) 1,2,3-Trichloropropane	11.237	75	28396m	20.360	ug/l	
73) Bromobenzene	11.195	156	23357	19.675	ug/l	98
74) n-propylbenzene	11.298	91	121450	19.791	ug/l	99
75) 2-Chlorotoluene	11.359	91	74341	20.038	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	86900	20.427	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	8258	17.598	ug/l	86
78) 4-Chlorotoluene	11.451	91	81904	19.805	ug/l	100
79) tert-butylbenzene	11.713	119	85314	19.903	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	85632	20.094	ug/l	99
81) sec-Butylbenzene	11.890	105	108219	20.116	ug/l	100
82) p-Isopropyltoluene	12.006	119	86823	19.919	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	44125	19.977	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	43416	19.936	ug/l	99
85) n-Butylbenzene	12.329	91	76316	19.173	ug/l	99
86) Hexachloroethane	12.536	117	13823	17.982	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	44295	20.439	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.938	75	6742	20.535	ug/l	95
89) 1,2,4-Trichlorobenzene	13.585	180	26174	19.927	ug/l	98
90) Hexachlorobutadiene	13.725	225	10685	19.947	ug/l	95
91) Naphthalene	13.774	128	93464	20.180	ug/l	99
92) 1,2,3-Trichlorobenzene	13.956	180	26390	19.515	ug/l	98

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

