

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031425\
 Data File : VX045293.D
 Acq On : 14 Mar 2025 15:22
 Operator : JC/MD
 Sample : VX0314WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0314WBSD01

Manual Integrations
 APPROVED

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

Quant Time: Mar 15 03:59:22 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	15546	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.751	114	80769	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	76870	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	47556	31.496	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 105.000%			
60) 4-Bromofluorobenzene	11.079	95	44173	30.744	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.467%			
63) Toluene-d8	8.641	98	126647	29.781	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.267%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	24170	18.443	ug/l	98
3) Chloromethane	1.301	50	26066	16.606	ug/l	100
4) Vinyl Chloride	1.374	62	23588	15.574	ug/l	99
5) Bromomethane	1.593	94	10755	20.399	ug/l	99
6) Chloroethane	1.666	64	12629	15.395	ug/l	94
7) Trichlorofluoromethane	1.874	101	35817	17.595	ug/l	98
8) Diethyl Ether	2.130	74	11933	15.493	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.319	101	22953	18.984	ug/l	97
10) 1,1-Dichloroethene	2.306	96	21585	18.278	ug/l	86
11) Methyl Iodide	2.441	142	25552	19.117	ug/l	98
12) Methyl Acetate	2.697	43	36614	26.699	ug/l	97
13) Acrolein	2.233	56	27711	100.812	ug/l	99
14) Acrylonitrile	3.056	53	68425	102.150	ug/l	99
15) Acetone	2.380	58	20453	111.332	ug/l	90
16) Carbon Disulfide	2.502	76	50534m	15.086	ug/l	
17) Allyl chloride	2.654	41	38710	17.525	ug/l	94
18) Methylene Chloride	2.782	84	24553	18.485	ug/l	96
19) trans-1,2-Dichloroethene	3.081	96	20842	17.444	ug/l	96
20) Diisopropyl ether	3.757	45	76188	17.950	ug/l	88
21) 1,1-Dichloroethane	3.605	63	44091	18.678	ug/l	99
22) cis-1,2-Dichloroethene	4.477	96	26300	18.369	ug/l	99
23) tert-Butyl Alcohol	2.971	59	20144	86.142	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	70231	18.221	ug/l	96
25) Chloroform	5.080	83	43989	19.293	ug/l	98
26) Cyclohexane	5.458	56	38170	17.518	ug/l #	99
29) 1,1-Dichloropropene	5.678	75	28106	18.917	ug/l	100
30) 2-Butanone	4.550	43	96464	112.407	ug/l	98
31) 2,2-Dichloropropane	4.465	77	28902	17.203	ug/l	99
32) 1,1,1-Trichloroethane	5.367	97	34733	19.294	ug/l	97
33) Carbon Tetrachloride	5.672	117	29661	19.523	ug/l	97
34) Benzene	6.025	78	90227	19.365	ug/l	97
35) Methacrylonitrile	4.916	41	19399	21.124	ug/l	95
36) 1,2-Dichloroethane	6.080	62	34119	21.389	ug/l	96
37) Trichloroethene	7.117	130	20606	18.904	ug/l	96
38) Methylcyclohexane	7.373	83	37543	18.819	ug/l	99
39) 1,2-Dichloropropane	7.427	63	22700	19.597	ug/l	98
40) Dibromomethane	7.580	93	17043	20.503	ug/l	96
41) Bromodichloromethane	7.818	83	33099	20.034	ug/l	98
42) Vinyl Acetate	3.715	43	312048	93.704	ug/l	99

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 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	32219	20.020	ug/l	95
44) Isopropyl Acetate	6.336	43	52666	19.883	ug/l	97
45) 1,4-Dioxane	7.659	88	9428	342.398	ug/l	96
46) Methyl methacrylate	7.690	41	27400	21.096	ug/l	95
47) n-amyl Acetate	10.841	43	44905	19.537	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	27508	17.274	ug/l	92
49) cis-1,3-Dichloropropene	8.360	75	32980	18.295	ug/l	94
50) 1,1,2-Trichloroethane	9.147	97	21205	19.557	ug/l	96
51) Ethyl methacrylate	9.116	69	33498	19.644	ug/l	98
52) 1,3-Dichloropropane	9.305	76	38391	20.208	ug/l	100
53) Dibromochloromethane	9.519	129	23199	19.346	ug/l	97
54) 1,2-Dibromoethane	9.604	107	22351	20.301	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	88703	101.295	ug/l	99
56) Bromoform	10.799	173	14421	19.191	ug/l	96
58) 4-Methyl-2-Pentanone	8.568	43	183409	104.887	ug/l	99
59) 2-Hexanone	9.427	43	137679	108.930	ug/l	99
61) Tetrachloroethene	9.269	164	17641	18.637	ug/l	92
62) Toluene	8.714	91	95024	18.661	ug/l	98
64) Chlorobenzene	10.073	112	58366	18.497	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	19291	18.528	ug/l	99
66) Ethyl Benzene	10.189	91	103839	18.626	ug/l	96
67) m/p-Xylenes	10.299	106	78640	37.860	ug/l	99
68) o-Xylene	10.640	106	37584	18.442	ug/l	96
69) Styrene	10.652	104	64261	18.879	ug/l	99
70) Isopropylbenzene	10.957	105	101919	19.379	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	35862	20.736	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	29223m	20.544	ug/l	
73) Bromobenzene	11.195	156	23609	19.500	ug/l	99
74) n-propylbenzene	11.299	91	119027	19.018	ug/l	100
75) 2-Chlorotoluene	11.360	91	72536	19.171	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	84806	19.546	ug/l	100
77) t-1,4-Dichloro-2-butene	11.012	75	7992	16.700	ug/l	78
78) 4-Chlorotoluene	11.451	91	80945	19.191	ug/l	97
79) tert-butylbenzene	11.713	119	84533	19.337	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	82957	19.087	ug/l	100
81) sec-Butylbenzene	11.884	105	106811	19.468	ug/l	99
82) p-Isopropyltoluene	12.006	119	85974	19.340	ug/l	99
83) 1,3-Dichlorobenzene	11.963	146	41657	18.492	ug/l	97
84) 1,4-Dichlorobenzene	12.036	146	41957	18.890	ug/l	98
85) n-Butylbenzene	12.329	91	75810	18.675	ug/l	98
86) Hexachloroethane	12.536	117	14252	18.178	ug/l	95
87) 1,2-Dichlorobenzene	12.335	146	42657	19.299	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	6851	20.460	ug/l	91
89) 1,2,4-Trichlorobenzene	13.585	180	23476	17.525	ug/l	99
90) Hexachlorobutadiene	13.719	225	10796	19.762	ug/l	99
91) Naphthalene	13.774	128	87097	18.439	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	24804	17.985	ug/l	98

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

