

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022425\
 Data File : VX045023.D
 Acq On : 24 Feb 2025 10:46
 Operator : JC/MD
 Sample : VX0224WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0224WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/25/2025
 Supervised By : Mahesh Dadoda 02/25/2025

Quant Time: Feb 25 00:28:36 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	21185	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.751	114	111674	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	104796	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	59107	28.726	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.767%		
60) 4-Bromofluorobenzene	11.079	95	58648	29.941	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.800%		
63) Toluene-d8	8.641	98	173612	29.946	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.833%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	36627	20.509	ug/l	94
3) Chloromethane	1.301	50	43835	20.493	ug/l	97
4) Vinyl Chloride	1.374	62	41387	20.052	ug/l	100
5) Bromomethane	1.593	94	14840	20.655	ug/l	98
6) Chloroethane	1.666	64	24663	22.062	ug/l	92
7) Trichlorofluoromethane	1.874	101	56919	20.518	ug/l	95
8) Diethyl Ether	2.130	74	20747	19.767	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.319	101	34534	20.960	ug/l	98
10) 1,1-Dichloroethene	2.313	96	33732	20.961	ug/l	97
11) Methyl Iodide	2.447	142	33603	18.448	ug/l	95
12) Methyl Acetate	2.697	43	41908	22.425	ug/l	96
13) Acrolein	2.233	56	43412	115.894	ug/l	99
14) Acrylonitrile	3.056	53	98678	108.102	ug/l	98
15) Acetone	2.374	58	33733	134.744	ug/l	100
16) Carbon Disulfide	2.502	76	92419	20.246	ug/l	99
17) Allyl chloride	2.654	41	61765	20.520	ug/l	99
18) Methylene Chloride	2.782	84	38175	21.090	ug/l	97
19) trans-1,2-Dichloroethene	3.087	96	33247	20.420	ug/l	96
20) Diisopropyl ether	3.751	45	120745	20.875	ug/l	95
21) 1,1-Dichloroethane	3.599	63	66807	20.768	ug/l	98
22) cis-1,2-Dichloroethene	4.477	96	40818	20.921	ug/l	99
23) tert-Butyl Alcohol	2.965	59	36265	113.801	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	108967	20.746	ug/l	100
25) Chloroform	5.080	83	64751	20.839	ug/l	94
26) Cyclohexane	5.458	56	61186	20.606	ug/l #	100
29) 1,1-Dichloropropene	5.684	75	45923	22.355	ug/l	99
30) 2-Butanone	4.544	43	147560	124.362	ug/l	100
31) 2,2-Dichloropropane	4.465	77	50837	21.886	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	55088	22.132	ug/l	99
33) Carbon Tetrachloride	5.666	117	46769	22.265	ug/l	98
34) Benzene	6.025	78	142877	22.179	ug/l	99
35) Methacrylonitrile	4.916	41	29734	23.418	ug/l	98
36) 1,2-Dichloroethane	6.080	62	46803	21.220	ug/l #	86
37) Trichloroethene	7.117	130	33197	22.027	ug/l	98
38) Methylcyclohexane	7.373	83	61226	22.197	ug/l	98
39) 1,2-Dichloropropane	7.422	63	35696	22.288	ug/l	98
40) Dibromomethane	7.574	93	25997	22.620	ug/l	98
41) Bromodichloromethane	7.812	83	50022	21.899	ug/l	98
42) Vinyl Acetate	3.715	43	511555	111.102	ug/l	100

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Quant Time: Feb 25 00:28:36 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)
43) Ethyl Acetate	4.702	43	49197	22.110	ug/l	99
44) Isopropyl Acetate	6.330	43	83983	22.932	ug/l	97
45) 1,4-Dioxane	7.659	88	17767	466.680	ug/l	98
46) Methyl methacrylate	7.690	41	41234	22.961	ug/l	98
47) n-amyl Acetate	10.842	43	71544	22.513	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	46831	21.270	ug/l	98
49) cis-1,3-Dichloropropene	8.360	75	54086	21.700	ug/l	98
50) 1,1,2-Trichloroethane	9.147	97	33305	22.216	ug/l	96
51) Ethyl methacrylate	9.110	69	53057	22.503	ug/l	97
52) 1,3-Dichloropropane	9.305	76	59584	22.683	ug/l	98
53) Dibromochloromethane	9.519	129	37220	22.449	ug/l	96
54) 1,2-Dibromoethane	9.604	107	34461	22.638	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	115159	95.113	ug/l	99
56) Bromoform	10.799	173	24003	23.103	ug/l	99
58) 4-Methyl-2-Pentanone	8.568	43	279253	117.142	ug/l	100
59) 2-Hexanone	9.427	43	205679	119.366	ug/l	99
61) Tetrachloroethene	9.269	164	29080	22.535	ug/l	98
62) Toluene	8.714	91	149963	21.602	ug/l	99
64) Chlorobenzene	10.073	112	94408	21.946	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	30780	21.684	ug/l	99
66) Ethyl Benzene	10.189	91	163919	21.568	ug/l	99
67) m/p-Xylenes	10.299	106	124576	43.993	ug/l	97
68) o-Xylene	10.640	106	62022	22.323	ug/l	100
69) Styrene	10.653	104	103492	22.303	ug/l	99
70) Isopropylbenzene	10.957	105	160413	22.373	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	52987	22.474	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	43876m	22.626	ug/l	
73) Bromobenzene	11.195	156	37790	22.895	ug/l	97
74) n-propylbenzene	11.299	91	191455	22.439	ug/l	100
75) 2-Chlorotoluene	11.360	91	115060	22.306	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	132745	22.442	ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	13705	21.006	ug/l	97
78) 4-Chlorotoluene	11.451	91	128240	22.302	ug/l	100
79) tert-butylbenzene	11.713	119	136753	22.946	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	134579	22.713	ug/l	100
81) sec-Butylbenzene	11.890	105	171607	22.943	ug/l	99
82) p-Isopropyltoluene	12.006	119	137387	22.669	ug/l	99
83) 1,3-Dichlorobenzene	11.963	146	67959	22.129	ug/l	98
84) 1,4-Dichlorobenzene	12.037	146	67382	22.253	ug/l	99
85) n-Butylbenzene	12.329	91	124806	22.551	ug/l	100
86) Hexachloroethane	12.536	117	24546	22.965	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	67196	22.300	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	10088	22.099	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	39920	21.859	ug/l	97
90) Hexachlorobutadiene	13.725	225	17281	23.203	ug/l	99
91) Naphthalene	13.774	128	139660	21.688	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	40845	21.724	ug/l	98

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

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