

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100623\
 Data File : VX038152.D
 Acq On : 07 Oct 2023 02:10
 Operator : JC/MD
 Sample : VX1006WBSD02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1006WBSD02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/09/2023
 Supervised By : Mahesh Dadoda 10/09/2023

Quant Time: Oct 07 06:35:57 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X100623W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Oct 07 06:30:32 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.904	128	10290	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	80580	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	106149	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	44716	31.809	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 106.033%		
60) 4-Bromofluorobenzene	11.079	95	64668	29.245	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 97.500%		
63) Toluene-d8	8.647	98	125010	30.413	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 101.367%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	26886	21.712	ug/l	100
3) Chloromethane	1.301	50	27225	22.197	ug/l	99
4) Vinyl Chloride	1.374	62	31346	21.819	ug/l	99
5) Bromomethane	1.605	94	31103	17.892	ug/l	97
6) Chloroethane	1.685	64	23503	19.219	ug/l	97
7) Trichlorofluoromethane	1.886	101	63349	20.703	ug/l	100
8) Diethyl Ether	2.130	74	23650	21.187	ug/l	83
9) 1,1,2-Trichlorotrifluo...	2.331	101	24128	20.644	ug/l	98
10) 1,1-Dichloroethene	2.319	96	24597	21.602	ug/l	95
11) Methyl Iodide	2.453	142	35160	20.721	ug/l	96
12) Methyl Acetate	2.703	43	75626	19.515	ug/l	99
13) Acrolein	2.233	56	25185	103.671	ug/l	94
14) Acrylonitrile	3.062	53	93420	102.859	ug/l	96
15) Acetone	2.374	58	25722	106.360	ug/l	87
16) Carbon Disulfide	2.514	76	63374	20.829	ug/l	98
17) Allyl chloride	2.666	41	40034	20.922	ug/l	96
18) Methylene Chloride	2.788	84	30440	20.503	ug/l	92
19) trans-1,2-Dichloroethene	3.093	96	28248	19.810	ug/l	99
20) Diisopropyl ether	3.757	45	87921	20.938	ug/l #	86
21) 1,1-Dichloroethane	3.611	63	52983	20.733	ug/l	97
22) cis-1,2-Dichloroethene	4.489	96	34280	20.412	ug/l	96
23) tert-Butyl Alcohol	2.953	59	41356	103.600	ug/l #	1
24) Methyl tert-Butyl Ether	3.111	73	91073	20.374	ug/l	100
25) Chloroform	5.093	83	58827	20.273	ug/l	99
26) Cyclohexane	5.471	56	44902	20.771	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	43169	20.249	ug/l	98
30) 2-Butanone	4.556	43	135897	99.172	ug/l	98
31) 2,2-Dichloropropane	4.477	77	26946	17.110	ug/l	98
32) 1,1,1-Trichloroethane	5.385	97	49202	19.315	ug/l	99
33) Carbon Tetrachloride	5.678	117	41155	19.068	ug/l	100
34) Benzene	6.037	78	124309	19.711	ug/l	98
35) Methacrylonitrile	4.916	41	24881m	19.394	ug/l	
36) 1,2-Dichloroethane	6.086	62	47817	19.544	ug/l	98
37) Trichloroethene	7.129	130	32679	19.674	ug/l	97
38) Methylcyclohexane	7.385	83	49161	19.359	ug/l	97
39) 1,2-Dichloropropane	7.428	63	31394	19.859	ug/l	92
40) Dibromomethane	7.580	93	24669	19.970	ug/l	95
41) Bromodichloromethane	7.824	83	41496	18.738	ug/l	97
42) Vinyl Acetate	3.721	43	303714	100.701	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	50670	20.211	ug/l	97
44) Isopropyl Acetate	6.342	43	74314	19.694	ug/l	99
45) 1,4-Dioxane	7.659	88	18796	391.970	ug/l #	1
46) Methyl methacrylate	7.696	41	36460	19.598	ug/l	97
47) n-amyl Acetate	10.842	43	64411	19.662	ug/l	96
48) t-1,3-Dichloropropene	8.976	75	41428	18.200	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	45544	18.872	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	33689	19.317	ug/l	99
51) Ethyl methacrylate	9.116	69	49294	18.873	ug/l	97
52) 1,3-Dichloropropane	9.311	76	54805	19.324	ug/l	98
53) Dibromochloromethane	9.519	129	32273	18.680	ug/l	99
54) 1,2-Dibromoethane	9.610	107	36513	19.159	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	136046	103.197	ug/l	99
56) Bromoform	10.799	173	22159	17.162	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	267271	100.596	ug/l	97
59) 2-Hexanone	9.427	43	216377	101.296	ug/l	100
61) Tetrachloroethene	9.275	164	29654	20.445	ug/l	96
62) Toluene	8.720	91	141536	20.013	ug/l	99
64) Chlorobenzene	10.079	112	86998	19.644	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	29914	19.376	ug/l	99
66) Ethyl Benzene	10.195	91	158588	19.775	ug/l	99
67) m/p-Xylenes	10.299	106	118896	38.216	ug/l	95
68) o-Xylene	10.640	106	57763	19.135	ug/l	92
69) Styrene	10.659	104	97419	19.421	ug/l	98
70) Isopropylbenzene	10.963	105	155919	19.585	ug/l	96
71) 1,1,2,2-Tetrachloroethane	11.213	83	58758	20.024	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	51746m	19.390	ug/l	
73) Bromobenzene	11.195	156	37439	18.992	ug/l	98
74) n-propylbenzene	11.305	91	192529	19.901	ug/l	97
75) 2-Chlorotoluene	11.366	91	111533	19.620	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	136418	19.609	ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	11623	16.000	ug/l	91
78) 4-Chlorotoluene	11.457	91	132560	19.609	ug/l	99
79) tert-butylbenzene	11.713	119	129130	19.539	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	134707	19.831	ug/l	97
81) sec-Butylbenzene	11.890	105	169952	19.658	ug/l	97
82) p-Isopropyltoluene	12.012	119	139750	19.553	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	74542	19.389	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	76401	19.517	ug/l	98
85) n-Butylbenzene	12.335	91	132363	19.409	ug/l	97
86) Hexachloroethane	12.536	117	21710	18.375	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	73430	19.705	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	12.945	75	14004	20.607	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	47942	19.817	ug/l	98
90) Hexachlorobutadiene	13.725	225	19369	19.904	ug/l	98
91) Naphthalene	13.774	128	168056	20.284	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	46755	19.744	ug/l	99

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

