

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011223\
 Data File : VX033704.D
 Acq On : 12 Jan 2023 11:37
 Operator : JC/MD
 Sample : VX0112WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0112WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/13/2023
 Supervised By : Mahesh Dadoda 01/13/2023

Quant Time: Jan 13 00:00:10 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jan 07 06:16:21 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	14856	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	104701	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	116134	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	37617	31.272	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.233%			
60) 4-Bromofluorobenzene	11.079	95	63950	30.553	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.833%			
63) Toluene-d8	8.647	98	112675	30.316	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.067%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	31651	20.372	ug/l	99
3) Chloromethane	1.294	50	34181	20.524	ug/l	97
4) Vinyl Chloride	1.374	62	34152	22.703	ug/l	99
5) Bromomethane	1.618	94	16347	19.619	ug/l	96
6) Chloroethane	1.691	64	18772	21.307	ug/l	98
7) Trichlorofluoromethane	1.892	101	50484	21.747	ug/l	98
8) Diethyl Ether	2.130	74	14882	19.689	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.331	101	23167	19.246	ug/l	99
10) 1,1-Dichloroethene	2.319	96	20556	18.113	ug/l	89
11) Methyl Iodide	2.453	142	29974	15.364	ug/l	98
12) Methyl Acetate	2.709	43	40350	16.983	ug/l	99
13) Acrolein	2.239	56	28250	110.274	ug/l	100
14) Acrylonitrile	3.068	53	82185	104.891	ug/l	100
15) Acetone	2.404	58	17709	99.872	ug/l	97
16) Carbon Disulfide	2.514	76	52857	16.006	ug/l	97
17) Allyl chloride	2.666	41	39953	16.548	ug/l	100
18) Methylene Chloride	2.788	84	33103	20.828	ug/l	95
19) trans-1,2-Dichloroethene	3.093	96	32184	21.108	ug/l	93
20) Diisopropyl ether	3.757	45	108080	20.741	ug/l	94
21) 1,1-Dichloroethane	3.605	63	57719	20.198	ug/l	98
22) cis-1,2-Dichloroethene	4.483	96	36820	20.306	ug/l	99
23) tert-Butyl Alcohol	3.050	59	31904m	103.088	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	97932	20.208	ug/l	97
25) Chloroform	5.093	83	60158	20.740	ug/l	93
26) Cyclohexane	5.464	56	56689	21.373	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	45284	20.009	ug/l	98
30) 2-Butanone	4.568	43	120573	102.018	ug/l #	97
31) 2,2-Dichloropropane	4.477	77	40779	20.928	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	50877	19.255	ug/l	99
33) Carbon Tetrachloride	5.678	117	46588	19.535	ug/l	99
34) Benzene	6.037	78	130517	19.851	ug/l	99
35) Methacrylonitrile	4.916	41	26055	19.347	ug/l	96
36) 1,2-Dichloroethane	6.086	62	46832	19.594	ug/l	99
37) Trichloroethene	7.123	130	37160	19.598	ug/l	99
38) Methylcyclohexane	7.379	83	57345	20.377	ug/l	100
39) 1,2-Dichloropropane	7.427	63	32847	19.548	ug/l	97
40) Dibromomethane	7.580	93	23335	19.761	ug/l	99
41) Bromodichloromethane	7.818	83	44853	19.583	ug/l	99
42) Vinyl Acetate	3.721	43	413662	97.942	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	48183	19.896	ug/l	99
44) Isopropyl Acetate	6.336	43	70682	18.603	ug/l	99
45) 1,4-Dioxane	7.751	88	17458m	421.176	ug/l	
46) Methyl methacrylate	7.690	41	36301	18.871	ug/l	96
47) n-amyl Acetate	10.842	43	61163	18.908	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	43706	18.675	ug/l	94
49) cis-1,3-Dichloropropene	8.366	75	50442	19.406	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	33668	19.642	ug/l	98
51) Ethyl methacrylate	9.116	69	48037	18.793	ug/l	99
52) 1,3-Dichloropropane	9.305	76	57014	19.859	ug/l	99
53) Dibromochloromethane	9.519	129	36405	19.486	ug/l	96
54) 1,2-Dibromoethane	9.610	107	36192	19.756	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	112046	90.675	ug/l	99
56) Bromoform	10.799	173	27165	18.938	ug/l	97
58) 4-Methyl-2-Pentanone	8.574	43	232159	100.635	ug/l	100
59) 2-Hexanone	9.433	43	171846	101.217	ug/l	99
61) Tetrachloroethene	9.275	164	33916	20.241	ug/l	97
62) Toluene	8.714	91	147071	20.118	ug/l	98
64) Chlorobenzene	10.079	112	94547	20.080	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	34876	19.680	ug/l	98
66) Ethyl Benzene	10.195	91	163626	20.070	ug/l	99
67) m/p-Xylenes	10.299	106	130688	40.616	ug/l	100
68) o-Xylene	10.640	106	64222	20.306	ug/l	99
69) Styrene	10.653	104	104729	20.008	ug/l	99
70) Isopropylbenzene	10.963	105	168766	20.605	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	49517	20.078	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	45086m	20.180	ug/l	
73) Bromobenzene	11.195	156	43920	20.262	ug/l	97
74) n-propylbenzene	11.305	91	192404	20.690	ug/l	99
75) 2-Chlorotoluene	11.366	91	114978	20.672	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	141353	20.787	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	12754	19.081	ug/l	97
78) 4-Chlorotoluene	11.451	91	129779	20.807	ug/l	99
79) tert-butylbenzene	11.713	119	144181	20.673	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	141229	21.022	ug/l	98
81) sec-Butylbenzene	11.890	105	176840	20.956	ug/l	100
82) p-Isopropyltoluene	12.006	119	151686	20.841	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	81982	20.718	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	81203	20.582	ug/l	99
85) n-Butylbenzene	12.329	91	124612	21.059	ug/l	99
86) Hexachloroethane	12.536	117	23199	19.592	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	79460	20.846	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	9620	18.789	ug/l	96
89) 1,2,4-Trichlorobenzene	13.585	180	53364	20.355	ug/l	99
90) Hexachlorobutadiene	13.725	225	26191	20.836	ug/l	97
91) Naphthalene	13.774	128	156778	20.366	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	54071	20.556	ug/l	100

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

