

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100623\
 Data File : VX038147.D
 Acq On : 06 Oct 2023 23:52
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Quant Time: Oct 07 06:17:20 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X100623W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Oct 07 06:04:00 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

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

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

Internal Standards						
1) Bromochloromethane	4.897	128	12531	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	93912	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	129228	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	49299	28.798	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.000%		
60) 4-Bromofluorobenzene	11.079	95	83190	30.903	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	103.000%		
63) Toluene-d8	8.653	98	147043	29.384	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.933%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	141498	93.832	ug/l	98
3) Chloromethane	1.300	50	136811	91.597	ug/l	96
4) Vinyl Chloride	1.374	62	158352	90.511	ug/l	100
5) Bromomethane	1.599	94	216340	102.195	ug/l	100
6) Chloroethane	1.672	64	133207	89.390	ug/l	92
7) Trichlorofluoromethane	1.880	101	343704	92.239	ug/l	100
8) Diethyl Ether	2.130	74	125181	92.088	ug/l	86
9) 1,1,2-Trichlorotrifluo...	2.325	101	129782	91.185	ug/l	97
10) 1,1-Dichloroethene	2.319	96	127387	91.868	ug/l	99
11) Methyl Iodide	2.447	142	192543	93.181	ug/l	98
12) Methyl Acetate	2.703	43	417846	88.541	ug/l	100
13) Acrolein	2.233	56	150736	509.520	ug/l	96
14) Acrylonitrile	3.062	53	525215	474.865	ug/l	97
15) Acetone	2.380	58	134537	456.820	ug/l	99
16) Carbon Disulfide	2.508	76	361567	97.584	ug/l	97
17) Allyl chloride	2.660	41	225904	96.947	ug/l	94
18) Methylene Chloride	2.788	84	165375	91.470	ug/l	96
19) trans-1,2-Dichloroethene	3.093	96	166119	95.663	ug/l	99
20) Diisopropyl ether	3.763	45	497559	97.300	ug/l #	97
21) 1,1-Dichloroethane	3.611	63	295985	95.108	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	196150	95.909	ug/l	96
23) tert-Butyl Alcohol	2.971	59	236505m	485.669	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	534382	98.169	ug/l	99
25) Chloroform	5.092	83	343109	97.094	ug/l	100
26) Cyclohexane	5.470	56	252658	95.975	ug/l #	96
29) 1,1-Dichloropropene	5.696	75	244532	98.417	ug/l	99
30) 2-Butanone	4.556	43	765450	479.296	ug/l	96
31) 2,2-Dichloropropane	4.477	77	182798	99.591	ug/l	98
32) 1,1,1-Trichloroethane	5.385	97	298021	100.382	ug/l	99
33) Carbon Tetrachloride	5.678	117	257603	102.411	ug/l	98
34) Benzene	6.037	78	707522	96.261	ug/l	98
35) Methacrylonitrile	4.922	41	149326	99.874	ug/l	93
36) 1,2-Dichloroethane	6.086	62	273376	95.871	ug/l	98
37) Trichloroethene	7.123	130	189035	97.652	ug/l	99
38) Methylcyclohexane	7.379	83	295102	99.709	ug/l	95
39) 1,2-Dichloropropane	7.427	63	177209	96.182	ug/l	96
40) Dibromomethane	7.580	93	141574	98.336	ug/l	97
41) Bromodichloromethane	7.824	83	266216	103.149	ug/l	100
42) Vinyl Acetate	3.721	43	1810072	514.956	ug/l	98

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43) Ethyl Acetate	4.714	43	285014	96.478	ug/l	98
44) Isopropyl Acetate	6.342	43	446865	101.612	ug/l	98
45) 1,4-Dioxane	7.659	88	108997	1950.331	ug/l #	1
46) Methyl methacrylate	7.696	41	215625	99.447	ug/l	97
47) n-amyl Acetate	10.841	43	419642	109.916	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	284793	107.354	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	292532	104.007	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	201802	99.284	ug/l	97
51) Ethyl methacrylate	9.116	69	320980	105.446	ug/l	97
52) 1,3-Dichloropropane	9.311	76	324373	98.134	ug/l	99
53) Dibromochloromethane	9.525	129	218112	108.322	ug/l	100
54) 1,2-Dibromoethane	9.610	107	225901	101.709	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	785522	511.265	ug/l	99
56) Bromoform	10.799	173	170227	113.121	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	1576548	487.409	ug/l	95
59) 2-Hexanone	9.433	43	1283124	493.412	ug/l	97
61) Tetrachloroethene	9.275	164	170786	96.721	ug/l	98
62) Toluene	8.720	91	836595	97.165	ug/l	98
64) Chlorobenzene	10.079	112	526293	97.611	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	195437	103.982	ug/l	99
66) Ethyl Benzene	10.195	91	960953	98.425	ug/l	97
67) m/p-Xylenes	10.305	106	764718	201.899	ug/l	99
68) o-Xylene	10.640	106	371471	101.078	ug/l	97
69) Styrene	10.659	104	636519	104.232	ug/l	99
70) Isopropylbenzene	10.963	105	979449	101.057	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.213	83	353167	98.861	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	324483m	99.873	ug/l	
73) Bromobenzene	11.201	156	240794	100.334	ug/l	96
74) n-propylbenzene	11.305	91	1190935	101.115	ug/l	99
75) 2-Chlorotoluene	11.366	91	695270	100.463	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	876736	103.516	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	103912	117.498	ug/l	92
78) 4-Chlorotoluene	11.457	91	843367	102.475	ug/l	99
79) tert-butylbenzene	11.713	119	832394	103.460	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	853393	103.196	ug/l	99
81) sec-Butylbenzene	11.890	105	1075162	102.150	ug/l	98
82) p-Isopropyltoluene	12.012	119	902119	103.678	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	474698	101.420	ug/l	100
84) 1,4-Dichlorobenzene	12.042	146	480963	100.922	ug/l	99
85) n-Butylbenzene	12.335	91	875874	105.497	ug/l	99
86) Hexachloroethane	12.542	117	157068	109.197	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	461536	101.733	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	88360	106.804	ug/l	96
89) 1,2,4-Trichlorobenzene	13.585	180	299122	101.561	ug/l	100
90) Hexachlorobutadiene	13.725	225	119018	100.463	ug/l	98
91) Naphthalene	13.774	128	1038004	102.908	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	293894	101.940	ug/l	100

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

