

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010723\
 Data File : VX033651.D
 Acq On : 07 Jan 2023 00:36
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Quant Time: Jan 07 05:52:52 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jan 07 05:49:19 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 01/09/2023
 Supervised By : Mahesh Dadoda 01/09/2023

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

Internal Standards						
1) Bromochloromethane	4.897	128	16983	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	113476	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	126871	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	38648	26.044	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	86.800%	#	
60) 4-Bromofluorobenzene	11.079	95	67187	28.763	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	95.867%		
63) Toluene-d8	8.647	98	120854	28.870	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	96.233%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	255478	188.711	ug/l	99
3) Chloromethane	1.294	50	280222	199.327	ug/l	99
4) Vinyl Chloride	1.374	62	271715	176.962	ug/l	98
5) Bromomethane	1.617	94	141248	131.432	ug/l	99
6) Chloroethane	1.691	64	148715	138.414	ug/l	97
7) Trichlorofluoromethane	1.886	101	342539	114.773	ug/l	97
8) Diethyl Ether	2.136	74	125482	138.734	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	190648	129.396	ug/l	98
10) 1,1-Dichloroethene	2.319	96	182756	131.395	ug/l	97
11) Methyl Iodide	2.453	142	292355	170.122	ug/l	99
12) Methyl Acetate	2.709	43	327968	149.913	ug/l	99
13) Acrolein	2.239	56	196254	639.317	ug/l	98
14) Acrylonitrile	3.075	53	549364	698.797	ug/l	100
15) Acetone	2.398	58	129346	550.787	ug/l	97
16) Carbon Disulfide	2.514	76	494644	130.017	ug/l	99
17) Allyl chloride	2.666	41	345953	139.676	ug/l	99
18) Methylene Chloride	2.788	84	204625	119.093	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	216645	125.737	ug/l	96
20) Diisopropyl ether	3.757	45	816451	154.446	ug/l	90
21) 1,1-Dichloroethane	3.611	63	456356	149.496	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	294683	146.804	ug/l	96
23) tert-Butyl Alcohol	3.026	59	228621m	694.312	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	722688	134.038	ug/l	97
25) Chloroform	5.092	83	456787	134.584	ug/l	96
26) Cyclohexane	5.470	56	424342	156.662	ug/l #	98
29) 1,1-Dichloropropene	5.696	75	354666	153.194	ug/l	97
30) 2-Butanone	4.568	43	898293	818.425	ug/l #	96
31) 2,2-Dichloropropane	4.477	77	320151	137.257	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	414238	142.258	ug/l	98
33) Carbon Tetrachloride	5.678	117	377689	142.333	ug/l	97
34) Benzene	6.037	78	1023687	154.367	ug/l	99
35) Methacrylonitrile	4.922	41	206517	176.369	ug/l	96
36) 1,2-Dichloroethane	6.086	62	356601	141.651	ug/l	98
37) Trichloroethene	7.129	130	302988	160.786	ug/l	97
38) Methylcyclohexane	7.379	83	447637	162.194	ug/l	99
39) 1,2-Dichloropropane	7.427	63	265647	159.112	ug/l	98
40) Dibromomethane	7.580	93	184002	146.577	ug/l	97
41) Bromodichloromethane	7.824	83	362689	143.437	ug/l	100
42) Vinyl Acetate	3.721	43	3240918	836.412	ug/l	98

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43) Ethyl Acetate	4.721	43	368451	176.904	ug/l	97
44) Isopropyl Acetate	6.342	43	616250	181.103	ug/l	99
45) 1,4-Dioxane	7.744	88	124130	3160.928	ug/l #	1
46) Methyl methacrylate	7.696	41	304551	177.718	ug/l	97
47) n-amyl Acetate	10.848	43	514754	178.967	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	403504	159.215	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	432190	157.461	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	265604	152.494	ug/l	98
51) Ethyl methacrylate	9.116	69	415143	164.567	ug/l	98
52) 1,3-Dichloropropane	9.305	76	441350	153.887	ug/l	100
53) Dibromochloromethane	9.518	129	308699	151.376	ug/l	98
54) 1,2-Dibromoethane	9.610	107	288257	151.985	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	957124	795.392	ug/l	99
56) Bromoform	10.799	173	244342	163.579	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	1717662	802.488	ug/l	97
59) 2-Hexanone	9.433	43	1271453	792.175	ug/l	98
61) Tetrachloroethene	9.275	164	265081	155.619	ug/l	99
62) Toluene	8.720	91	1122651	145.785	ug/l	97
64) Chlorobenzene	10.079	112	734247	150.284	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	286864	150.444	ug/l	98
66) Ethyl Benzene	10.195	91	1277353	147.545	ug/l	97
67) m/p-Xylenes	10.305	106	1002677	294.682	ug/l	98
68) o-Xylene	10.640	106	491227	148.210	ug/l	97
69) Styrene	10.652	104	816821	148.569	ug/l	99
70) Isopropylbenzene	10.963	105	1255314	143.527	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	370004	142.203	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	334048m	144.679	ug/l	
73) Bromobenzene	11.195	156	339776	154.828	ug/l	97
74) n-propylbenzene	11.305	91	1446532	144.558	ug/l	99
75) 2-Chlorotoluene	11.366	91	846456	140.897	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	1033891	140.957	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	120911	162.430	ug/l	81
78) 4-Chlorotoluene	11.457	91	951033	139.005	ug/l	99
79) tert-butylbenzene	11.713	119	1071674	146.497	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	1032655	143.285	ug/l	97
81) sec-Butylbenzene	11.890	105	1322938	150.357	ug/l	100
82) p-Isopropyltoluene	12.012	119	1156333	153.689	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	624059	155.528	ug/l	100
84) 1,4-Dichlorobenzene	12.042	146	621740	153.816	ug/l	99
85) n-Butylbenzene	12.335	91	964722	154.130	ug/l	98
86) Hexachloroethane	12.536	117	201129	154.446	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	591968	150.544	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	83908	150.811	ug/l	92
89) 1,2,4-Trichlorobenzene	13.585	180	435676	173.743	ug/l	99
90) Hexachlorobutadiene	13.725	225	205288	189.346	ug/l	98
91) Naphthalene	13.774	128	1247414	156.840	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	433420	173.191	ug/l	100

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

