

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071924\
 Data File : VX042394.D
 Acq On : 19 Jul 2024 10:56
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Quant Time: Jul 19 11:25:14 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071924W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 11:18:14 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 07/19/2024
 Supervised By : Mahesh Dadoda 07/22/2024

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

Internal Standards						
1) Bromochloromethane	4.897	128	29506	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	180606	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	164841	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	64889	31.947	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 106.500%			
60) 4-Bromofluorobenzene	11.079	95	78078	30.599	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.000%			
63) Toluene-d8	8.647	98	213517	30.275	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.933%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.166	85	260817	136.553	ug/l	98
3) Chloromethane	1.300	50	269516	126.232	ug/l	98
4) Vinyl Chloride	1.374	62	271404	129.986	ug/l	99
5) Bromomethane	1.599	94	138027	123.665	ug/l	98
6) Chloroethane	1.666	64	111096	124.538	ug/l	99
7) Trichlorofluoromethane	1.867	101	314825	119.728	ug/l	100
8) Diethyl Ether	2.136	74	141535	124.374	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	273257	152.863	ug/l	99
10) 1,1-Dichloroethene	2.312	96	260462	144.442	ug/l	95
11) Methyl Iodide	2.447	142	314654	134.068	ug/l	98
12) Methyl Acetate	2.709	43	433154	188.408	ug/l	100
13) Acrolein	2.245	56	265281	572.267	ug/l	99
14) Acrylonitrile	3.075	53	785872	720.200	ug/l	98
15) Acetone	2.392	58	223973	717.511	ug/l	99
16) Carbon Disulfide	2.501	76	558824	141.408	ug/l	100
17) Allyl chloride	2.660	41	395661	144.474	ug/l	99
18) Methylene Chloride	2.788	84	285541	138.053	ug/l	96
19) trans-1,2-Dichloroethene	3.087	96	267368	148.012	ug/l	97
20) Diisopropyl ether	3.769	45	865130	153.687	ug/l	92
21) 1,1-Dichloroethane	3.605	63	496150	154.303	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	334384	152.921	ug/l	97
23) tert-Butyl Alcohol	3.007	59	320074	788.966	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	889892	159.534	ug/l	99
25) Chloroform	5.092	83	506257	154.923	ug/l	97
26) Cyclohexane	5.464	56	421441	150.903	ug/l #	100
29) 1,1-Dichloropropene	5.690	75	348643	147.905	ug/l	97
30) 2-Butanone	4.568	43	1081325	686.543	ug/l	100
31) 2,2-Dichloropropane	4.471	77	413353	160.037	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	457298	153.044	ug/l	100
33) Carbon Tetrachloride	5.672	117	405944	157.522	ug/l	97
34) Benzene	6.037	78	1104866	140.703	ug/l	99
35) Methacrylonitrile	4.928	41	227472	143.787	ug/l	96
36) 1,2-Dichloroethane	6.086	62	356190	145.606	ug/l	99
37) Trichloroethene	7.123	130	308927	144.031	ug/l	97
38) Methylcyclohexane	7.379	83	453754	145.329	ug/l	98
39) 1,2-Dichloropropane	7.427	63	275892	147.497	ug/l	97
40) Dibromomethane	7.580	93	199179	143.947	ug/l	100
41) Bromodichloromethane	7.824	83	389753	157.228	ug/l	99
42) Vinyl Acetate	3.727	43	3699939	701.811	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	404896	137.105	ug/l	99
44) Isopropyl Acetate	6.342	43	657395	148.622	ug/l	100
45) 1,4-Dioxane	7.665	88	144353	2677.347	ug/l	100
46) Methyl methacrylate	7.696	41	321376	148.601	ug/l	99
47) n-amyl Acetate	10.841	43	596746	150.323	ug/l	97
48) t-1,3-Dichloropropene	8.976	75	408464	160.037	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	444975	155.424	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	283750	141.031	ug/l	98
51) Ethyl methacrylate	9.116	69	478174	149.608	ug/l	99
52) 1,3-Dichloropropane	9.305	76	458570	139.415	ug/l	99
53) Dibromochloromethane	9.525	129	342558	155.582	ug/l	100
54) 1,2-Dibromoethane	9.610	107	295216	139.141	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	1091072	733.401	ug/l	99
56) Bromoform	10.799	173	289175	161.066	ug/l	99
58) 4-Methyl-2-Pentanone	8.580	43	2070916	701.099	ug/l	99
59) 2-Hexanone	9.433	43	1606735	704.751	ug/l	99
61) Tetrachloroethene	9.275	164	284757	137.282	ug/l	99
62) Toluene	8.720	91	1176556	141.048	ug/l	100
64) Chlorobenzene	10.079	112	802799	141.331	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	299947	152.897	ug/l	98
66) Ethyl Benzene	10.195	91	1318973	144.630	ug/l	100
67) m/p-Xylenes	10.299	106	1056660	288.057	ug/l	97
68) o-Xylene	10.640	106	525138	143.590	ug/l	98
69) Styrene	10.652	104	900657	147.371	ug/l	99
70) Isopropylbenzene	10.963	105	1339808	145.702	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	451748	141.951	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	357516m	138.699	ug/l	
73) Bromobenzene	11.195	156	382503	142.606	ug/l	100
74) n-propylbenzene	11.305	91	1502483	148.741	ug/l	100
75) 2-Chlorotoluene	11.366	91	909654	141.815	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	1122577	145.717	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	156520	164.144	ug/l	86
78) 4-Chlorotoluene	11.457	91	1040096	145.967	ug/l	99
79) tert-butylbenzene	11.713	119	1213995	148.458	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	1128017	146.564	ug/l	99
81) sec-Butylbenzene	11.890	105	1431017	150.037	ug/l	99
82) p-Isopropyltoluene	12.006	119	1265643	151.428	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	695015	145.326	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	706052	148.317	ug/l	100
85) n-Butylbenzene	12.329	91	1051057	162.624	ug/l	99
86) Hexachloroethane	12.536	117	232359	170.234	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	705230	145.810	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	103029	156.517	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	518029	158.224	ug/l	99
90) Hexachlorobutadiene	13.725	225	244471	151.533	ug/l	98
91) Naphthalene	13.774	128	1523417	153.995	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	518940	153.047	ug/l	98

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

