

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091622\
 Data File : VX031403.D
 Acq On : 16 Sep 2022 11:49
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Quant Time: Sep 16 12:38:45 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X091622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jul 09 02:10:54 2022
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2022
 Supervised By : Mahesh Dadoda 09/19/2022

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

Internal Standards						
1) Bromochloromethane	4.903	128	16298	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	84744	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	94886	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	43894	33.029	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 110.100%#			
60) 4-Bromofluorobenzene	11.085	95	65971	36.893	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 122.967%#			
63) Toluene-d8	8.653	98	162187	31.522	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 105.067%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	114731	102.946	ug/l	99
3) Chloromethane	1.288	50	150732	129.698	ug/l	97
4) Vinyl Chloride	1.374	62	179507	136.310	ug/l	99
5) Bromomethane	1.611	94	253792	467.760	ug/l	99
6) Chloroethane	1.678	64	150370	213.218	ug/l	99
7) Trichlorofluoromethane	1.880	101	469828	281.448	ug/l	97
8) Diethyl Ether	2.136	74	159305	224.368	ug/l	85
9) 1,1,2-Trichlorotrifluo...	2.325	101	152871	136.005	ug/l	92
10) 1,1-Dichloroethene	2.319	96	147601	128.603	ug/l	99
11) Methyl Iodide	2.453	142	193130	146.269	ug/l	98
12) Methyl Acetate	2.709	43	228583	122.290	ug/l	94
13) Acrolein	2.239	56	155666	708.903	ug/l	98
14) Acrylonitrile	3.074	53	498026	619.069	ug/l	99
15) Acetone	2.392	58	119096	545.003	ug/l	98
16) Carbon Disulfide	2.508	76	392879	131.131	ug/l	99
17) Allyl chloride	2.660	41	245199	121.229	ug/l	89
18) Methylene Chloride	2.788	84	168147	125.750	ug/l	96
19) trans-1,2-Dichloroethene	3.087	96	197355	158.455	ug/l	96
20) Diisopropyl ether	3.763	45	632332	156.061	ug/l	89
21) 1,1-Dichloroethane	3.611	63	306050	140.307	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	202782	137.114	ug/l	95
23) tert-Butyl Alcohol	3.056	59	218037m	591.624	ug/l	
24) Methyl tert-Butyl Ether	3.117	73	638366	172.409	ug/l	96
25) Chloroform	5.099	83	388959	178.919	ug/l	99
26) Cyclohexane	5.470	56	288345	142.673	ug/l #	99
29) 1,1-Dichloropropene	5.696	75	257199	177.416	ug/l	100
30) 2-Butanone	4.568	43	690000	705.160	ug/l	100
31) 2,2-Dichloropropane	4.477	77	283393	204.532	ug/l	100
32) 1,1,1-Trichloroethane	5.385	97	334796	214.778	ug/l	97
33) Carbon Tetrachloride	5.678	117	298315	227.855	ug/l	97
34) Benzene	6.043	78	777035	166.793	ug/l	99
35) Methacrylonitrile	4.922	41	152694	154.169	ug/l	91
36) 1,2-Dichloroethane	6.086	62	302396	213.231	ug/l	100
37) Trichloroethene	7.129	130	195758	157.118	ug/l	99
38) Methylcyclohexane	7.379	83	294029	156.309	ug/l	98
39) 1,2-Dichloropropane	7.433	63	176448	148.788	ug/l	97
40) Dibromomethane	7.586	93	138689	172.531	ug/l	90
41) Bromodichloromethane	7.824	83	293214	204.197	ug/l	100
42) Vinyl Acetate	3.727	43	2718096	868.625	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	294666	159.868	ug/l	100
44) Isopropyl Acetate	6.348	43	479941	171.403	ug/l	96
45) 1,4-Dioxane	7.696	88	94897	2887.006	ug/l	95
46) Methyl methacrylate	7.696	41	219974	165.776	ug/l	91
47) n-amyl Acetate	10.847	43	446434	185.594	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	365207	230.143	ug/l	97
49) cis-1,3-Dichloropropene	8.372	75	348776	195.729	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	239998	201.525	ug/l	98
51) Ethyl methacrylate	9.122	69	367170	198.127	ug/l	94
52) 1,3-Dichloropropane	9.311	76	364308	190.175	ug/l	99
53) Dibromochloromethane	9.525	129	286634	260.038	ug/l	100
54) 1,2-Dibromoethane	9.610	107	270589	218.801	ug/l	100
55) 2-Chloroethyl vinyl ether	8.250	63	958471	1003.320	ug/l	98
56) Bromoform	10.805	173	231104	299.502	ug/l	97
58) 4-Methyl-2-Pentanone	8.580	43	1540070	657.091	ug/l	96
59) 2-Hexanone	9.439	43	1151905	635.432	ug/l	95
61) Tetrachloroethene	9.275	164	222477	156.158	ug/l	97
62) Toluene	8.720	91	1055427	167.213	ug/l	100
64) Chlorobenzene	10.079	112	661336	175.443	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	246397	187.452	ug/l	98
66) Ethyl Benzene	10.195	91	1172748	174.840	ug/l	98
67) m/p-Xylenes	10.305	106	1055886	405.665	ug/l	93
68) o-Xylene	10.646	106	503570	194.283	ug/l	96
69) Styrene	10.658	104	890750	207.670	ug/l	97
70) Isopropylbenzene	10.963	105	1348265	206.601	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.213	83	381542	160.774	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	383412m	179.736	ug/l	
73) Bromobenzene	11.201	156	330403	211.136	ug/l	95
74) n-propylbenzene	11.305	91	1508973	192.754	ug/l	97
75) 2-Chlorotoluene	11.366	91	887119	192.435	ug/l	95
76) 1,3,5-Trimethylbenzene	11.451	105	1170418	213.613	ug/l	96
77) t-1,4-Dichloro-2-butene	11.024	75	136352	185.837	ug/l	74
78) 4-Chlorotoluene	11.457	91	1055230	203.949	ug/l	93
79) tert-butylbenzene	11.719	119	1136965	213.302	ug/l	96
80) 1,2,4-Trimethylbenzene	11.756	105	1124816	199.687	ug/l	95
81) sec-Butylbenzene	11.890	105	1393150	193.091	ug/l	97
82) p-Isopropyltoluene	12.012	119	1226797	211.211	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	645859	213.320	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	667931	217.526	ug/l	99
85) n-Butylbenzene	12.335	91	999127	183.305	ug/l	99
86) Hexachloroethane	12.542	117	208306	215.856	ug/l	90
87) 1,2-Dichlorobenzene	12.335	146	635598	212.597	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	89714	165.768	ug/l	92
89) 1,2,4-Trichlorobenzene	13.591	180	353128	190.768	ug/l	98
90) Hexachlorobutadiene	13.725	225	118176	168.339	ug/l	98
91) Naphthalene	13.780	128	1276766	173.046	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	359905	190.883	ug/l	100

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

