

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071422\
 Data File : VX030053.D
 Acq On : 14 Jul 2022 11:36
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/15/2022
 Supervised By : Mahesh Dadoda 07/15/2022

Quant Time: Jul 14 16:49:51 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X070822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jul 09 02:10:54 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	28977	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	162171	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	143185	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	69134	29.259	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	97.533%	
60) 4-Bromofluorobenzene	11.079	95	83383	30.901	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	103.000%	
63) Toluene-d8	8.653	98	237780	30.625	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	102.100%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	40633	20.506	ug/l	98
3) Chloromethane	1.288	50	40790	19.741	ug/l	99
4) Vinyl Chloride	1.374	62	43409	18.540	ug/l	96
5) Bromomethane	1.605	94	20347	21.092	ug/l	94
6) Chloroethane	1.685	64	24925	19.878	ug/l	98
7) Trichlorofluoromethane	1.886	101	58850	19.828	ug/l	98
8) Diethyl Ether	2.136	74	23151	18.339	ug/l	91
9) 1,1,2-Trichlorotrifluo...	2.325	101	39735	19.883	ug/l	96
10) 1,1-Dichloroethene	2.319	96	39630	19.421	ug/l	90
11) Methyl Iodide	2.453	142	39005	24.504	ug/l	91
12) Methyl Acetate	2.709	43	66358	19.967	ug/l	94
13) Acrolein	2.239	56	17860	45.746	ug/l	97
14) Acrylonitrile	3.069	53	139943	97.841	ug/l	97
15) Acetone	2.386	58	38819	99.914	ug/l	81
16) Carbon Disulfide	2.508	76	101479	19.050	ug/l	99
17) Allyl chloride	2.660	41	67824	18.861	ug/l	91
18) Methylene Chloride	2.788	84	46574	19.590	ug/l	95
19) trans-1,2-Dichloroethene	3.093	96	42030	18.980	ug/l	98
20) Diisopropyl ether	3.764	45	137696	19.114	ug/l	91
21) 1,1-Dichloroethane	3.611	63	75186	19.387	ug/l	98
22) cis-1,2-Dichloroethene	4.495	96	50314	19.135	ug/l	98
23) tert-Butyl Alcohol	2.977	59	59400	90.653	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	125612	19.081	ug/l	100
25) Chloroform	5.099	83	76353	19.754	ug/l	95
26) Cyclohexane	5.477	56	68198	18.979	ug/l #	92
29) 1,1-Dichloropropene	5.696	75	55661	20.064	ug/l	98
30) 2-Butanone	4.562	43	189642	101.277	ug/l	99
31) 2,2-Dichloropropane	4.477	77	51040	19.249	ug/l	94
32) 1,1,1-Trichloroethane	5.385	97	60539	20.295	ug/l	97
33) Carbon Tetrachloride	5.678	117	50717	20.243	ug/l	96
34) Benzene	6.038	78	177869	19.951	ug/l	97
35) Methacrylonitrile	4.922	41	38525	20.326	ug/l	93
36) 1,2-Dichloroethane	6.092	62	55605	20.489	ug/l	97
37) Trichloroethene	7.129	130	48076	20.164	ug/l	97
38) Methylcyclohexane	7.379	83	72862	20.241	ug/l	96
39) 1,2-Dichloropropane	7.434	63	46020	20.278	ug/l	99
40) Dibromomethane	7.586	93	30623	19.907	ug/l	92
41) Bromodichloromethane	7.824	83	56441	20.540	ug/l	98
42) Vinyl Acetate	3.727	43	592553	98.953	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	68660	19.466	ug/l	99
44) Isopropyl Acetate	6.342	43	106756	19.923	ug/l	99
45) 1,4-Dioxane	7.677	88	26177	416.151	ug/l	97
46) Methyl methacrylate	7.696	41	51715	20.366	ug/l	99
47) n-amyl Acetate	10.842	43	84082	18.266	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	56881	18.731	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	66724	19.567	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	47449	20.820	ug/l	98
51) Ethyl methacrylate	9.116	69	69382	19.564	ug/l	98
52) 1,3-Dichloropropane	9.311	76	73461	20.039	ug/l	99
53) Dibromochloromethane	9.525	129	42010	19.916	ug/l	97
54) 1,2-Dibromoethane	9.610	107	47069	19.889	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	195353	106.860	ug/l	95
56) Bromoform	10.805	173	29962	20.291	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	365702	103.399	ug/l	98
59) 2-Hexanone	9.433	43	281532	102.916	ug/l	98
61) Tetrachloroethene	9.275	164	48718	22.661	ug/l	94
62) Toluene	8.720	91	192593	20.220	ug/l	96
64) Chlorobenzene	10.079	112	114818	20.185	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	40146	20.240	ug/l	95
66) Ethyl Benzene	10.195	91	204838	20.237	ug/l	99
67) m/p-Xylenes	10.305	106	159559	40.623	ug/l	99
68) o-Xylene	10.646	106	78202	19.994	ug/l	98
69) Styrene	10.659	104	131450	20.309	ug/l	97
70) Isopropylbenzene	10.963	105	203805	20.696	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	70667	19.733	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	64984m	20.187	ug/l	
73) Bromobenzene	11.201	156	48462	20.522	ug/l	92
74) n-propylbenzene	11.305	91	242238	20.505	ug/l	98
75) 2-Chlorotoluene	11.366	91	140336	20.173	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	169516	20.502	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	20596	18.602	ug/l	85
78) 4-Chlorotoluene	11.457	91	158670	20.322	ug/l	99
79) tert-butylbenzene	11.713	119	161295	20.053	ug/l	98
80) 1,2,4-Trimethylbenzene	11.756	105	166123	19.544	ug/l	97
81) sec-Butylbenzene	11.890	105	218497	20.069	ug/l	98
82) p-Isopropyltoluene	12.012	119	173098	19.749	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	90667	19.845	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	91439	19.734	ug/l	99
85) n-Butylbenzene	12.335	91	154550	18.790	ug/l	97
86) Hexachloroethane	12.542	117	28106	19.300	ug/l	87
87) 1,2-Dichlorobenzene	12.335	146	91688	20.323	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	15381	18.833	ug/l	96
89) 1,2,4-Trichlorobenzene	13.591	180	55369	19.822	ug/l	98
90) Hexachlorobutadiene	13.725	225	22888	21.606	ug/l	99
91) Naphthalene	13.774	128	218347	19.611	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	58695	20.629	ug/l	96

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

