

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061523\
 Data File : VX036163.D
 Acq On : 15 Jun 2023 10:59
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/16/2023
 Supervised By : Mahesh Dadoda 06/16/2023

Quant Time: Jun 16 07:51:34 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X052323W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 23 11:36:37 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.891	128	33252	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	209720	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	202780	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	108564	39.294	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 130.967%#			
60) 4-Bromofluorobenzene	11.079	95	109030	32.043	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 106.800%			
63) Toluene-d8	8.647	98	252191	28.132	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 93.767%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.167	85	42012	24.707	ug/l	99
3) Chloromethane	1.295	50	39781	19.070	ug/l	99
4) Vinyl Chloride	1.374	62	38202	19.487	ug/l	95
5) Bromomethane	1.618	94	23003	17.442	ug/l	99
6) Chloroethane	1.691	64	25008	20.235	ug/l	96
7) Trichlorofluoromethane	1.886	101	63603	21.401	ug/l	97
8) Diethyl Ether	2.130	74	25486	20.626	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.331	101	37639	23.540	ug/l	97
10) 1,1-Dichloroethene	2.319	96	33328	19.995	ug/l	88
11) Methyl Iodide	2.453	142	36505	18.129	ug/l	99
12) Methyl Acetate	2.703	43	109501	23.249	ug/l	98
13) Acrolein	2.240	56	33969	91.237	ug/l	97
14) Acrylonitrile	3.069	53	130339	110.390	ug/l	98
15) Acetone	2.392	58	34323	97.187	ug/l	93
16) Carbon Disulfide	2.514	76	70471	19.481	ug/l	99
17) Allyl chloride	2.666	41	71317	21.208	ug/l	95
18) Methylene Chloride	2.788	84	44476	20.489	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	38564	20.523	ug/l	95
20) Diisopropyl ether	3.758	45	154305	21.255	ug/l	95
21) 1,1-Dichloroethane	3.611	63	81767	21.489	ug/l	98
22) cis-1,2-Dichloroethene	4.483	96	47722	20.525	ug/l	96
23) tert-Butyl Alcohol	3.008	59	48013m	111.401	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	152722	22.733	ug/l	96
25) Chloroform	5.087	83	87217	22.337	ug/l	98
26) Cyclohexane	5.471	56	60460	21.009	ug/l #	97
29) 1,1-Dichloropropene	5.690	75	56471	19.337	ug/l	97
30) 2-Butanone	4.562	43	189171	98.952	ug/l #	96
31) 2,2-Dichloropropane	4.477	77	63874	20.358	ug/l #	77
32) 1,1,1-Trichloroethane	5.379	97	71026	20.826	ug/l	97
33) Carbon Tetrachloride	5.672	117	57671	21.415	ug/l	98
34) Benzene	6.038	78	167242	18.153	ug/l	99
35) Methacrylonitrile	4.916	41	41848	20.514	ug/l	97
36) 1,2-Dichloroethane	6.086	62	79552	22.187	ug/l	96
37) Trichloroethene	7.123	130	41879	18.084	ug/l	94
38) Methylcyclohexane	7.379	83	63251	19.749	ug/l	96
39) 1,2-Dichloropropane	7.428	63	46384	18.704	ug/l	100
40) Dibromomethane	7.580	93	33248	19.823	ug/l	94
41) Bromodichloromethane	7.818	83	64540	21.286	ug/l #	97
42) Vinyl Acetate	3.721	43	543815	96.842	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	73038	20.033	ug/l	100
44) Isopropyl Acetate	6.336	43	115406	19.419	ug/l	99
45) 1,4-Dioxane	7.714	88	20227	358.336	ug/l #	52
46) Methyl methacrylate	7.690	41	57257	19.940	ug/l	95
47) n-amyl Acetate	10.842	43	96226	19.276	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	66329	19.774	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	73078	19.741	ug/l	98
50) 1,1,2-Trichloroethane	9.147	97	46366	19.323	ug/l	98
51) Ethyl methacrylate	9.116	69	71928	19.446	ug/l	95
52) 1,3-Dichloropropane	9.305	76	81455	19.479	ug/l	100
53) Dibromochloromethane	9.519	129	44483	20.214	ug/l	100
54) 1,2-Dibromoethane	9.610	107	47601	19.094	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	202830	103.329	ug/l	99
56) Bromoform	10.799	173	28424	19.925	ug/l	96
58) 4-Methyl-2-Pentanone	8.568	43	375983	95.458	ug/l	99
59) 2-Hexanone	9.427	43	284815	96.101	ug/l	98
61) Tetrachloroethene	9.275	164	34146	17.485	ug/l	97
62) Toluene	8.714	91	180076	17.244	ug/l	100
64) Chlorobenzene	10.080	112	114533	17.318	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	42186	18.245	ug/l	98
66) Ethyl Benzene	10.189	91	207065	17.730	ug/l	99
67) m/p-Xylenes	10.299	106	155829	35.251	ug/l	96
68) o-Xylene	10.640	106	77067	17.429	ug/l	93
69) Styrene	10.653	104	129177	17.701	ug/l	96
70) Isopropylbenzene	10.964	105	206011	18.253	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.214	83	75508	18.888	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	66290m	19.040	ug/l	
73) Bromobenzene	11.195	156	47565	17.347	ug/l	87
74) n-propylbenzene	11.305	91	247503	18.398	ug/l	99
75) 2-Chlorotoluene	11.360	91	156941	18.992	ug/l	96
76) 1,3,5-Trimethylbenzene	11.451	105	180304	18.810	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	18764	17.865	ug/l	96
78) 4-Chlorotoluene	11.451	91	180918	19.218	ug/l	97
79) tert-butylbenzene	11.713	119	172608	18.653	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	180241	18.710	ug/l	98
81) sec-Butylbenzene	11.890	105	218104	18.668	ug/l	98
82) p-Isopropyltoluene	12.006	119	180125	18.532	ug/l	97
83) 1,3-Dichlorobenzene	11.969	146	93750	18.065	ug/l	97
84) 1,4-Dichlorobenzene	12.043	146	93170	17.887	ug/l	98
85) n-Butylbenzene	12.329	91	163404	18.897	ug/l	99
86) Hexachloroethane	12.536	117	27398	17.900	ug/l	92
87) 1,2-Dichlorobenzene	12.335	146	93038	18.298	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	16405	21.472	ug/l	83
89) 1,2,4-Trichlorobenzene	13.585	180	56031	18.387	ug/l	98
90) Hexachlorobutadiene	13.725	225	22167	19.733	ug/l	98
91) Naphthalene	13.774	128	192009	18.208	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	55615	18.279	ug/l	98

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

