

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100523\
 Data File : VX038114.D
 Acq On : 05 Oct 2023 21:32
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/06/2023
 Supervised By : Mahesh Dadoda 10/06/2023

Quant Time: Oct 06 06:35:09 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X092723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Sep 28 06:08:32 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.898	128	25142	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	137157	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	135451	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	61303	33.825	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 112.767%#			
60) 4-Bromofluorobenzene	11.079	95	66840	30.271	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.900%			
63) Toluene-d8	8.647	98	180301	30.835	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.800%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.167	85	23893	18.128	ug/l	98
3) Chloromethane	1.301	50	24808	17.576	ug/l	90
4) Vinyl Chloride	1.374	62	29627	18.750	ug/l	96
5) Bromomethane	1.605	94	29460	24.202	ug/l	91
6) Chloroethane	1.691	64	23580	22.229	ug/l	92
7) Trichlorofluoromethane	1.886	101	58795	22.542	ug/l	98
8) Diethyl Ether	2.130	74	22287	23.161	ug/l	85
9) 1,1,2-Trichlorotrifluo...	2.331	101	23197	17.444	ug/l	96
10) 1,1-Dichloroethene	2.319	96	22904	17.595	ug/l	95
11) Methyl Iodide	2.453	142	33323	18.915	ug/l	100
12) Methyl Acetate	2.703	43	68663	25.951	ug/l	95
13) Acrolein	2.233	56	29250	95.800	ug/l	99
14) Acrylonitrile	3.063	53	89408	122.390	ug/l	97
15) Acetone	2.380	58	23795	112.609	ug/l	89
16) Carbon Disulfide	2.514	76	54745	17.235	ug/l	99
17) Allyl chloride	2.666	41	35481	17.804	ug/l	95
18) Methylene Chloride	2.788	84	29735	19.059	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	27975	19.067	ug/l	99
20) Diisopropyl ether	3.764	45	88128	20.714	ug/l #	91
21) 1,1-Dichloroethane	3.611	63	51929	20.201	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	33987	19.510	ug/l	97
23) tert-Butyl Alcohol	2.953	59	38452	126.153	ug/l #	1
24) Methyl tert-Butyl Ether	3.117	73	91432	20.293	ug/l	98
25) Chloroform	5.093	83	59894	21.187	ug/l	100
26) Cyclohexane	5.471	56	42577	19.463	ug/l #	98
29) 1,1-Dichloropropene	5.696	75	41046	20.702	ug/l	99
30) 2-Butanone	4.556	43	131976	138.702	ug/l	98
31) 2,2-Dichloropropane	4.477	77	32223	16.133	ug/l	98
32) 1,1,1-Trichloroethane	5.385	97	48658	20.481	ug/l	98
33) Carbon Tetrachloride	5.678	117	41125	20.222	ug/l	98
34) Benzene	6.044	78	121731	20.553	ug/l	98
35) Methacrylonitrile	4.922	41	25794	25.785	ug/l	95
36) 1,2-Dichloroethane	6.092	62	48920	23.349	ug/l	98
37) Trichloroethene	7.123	130	31979	19.572	ug/l	95
38) Methylcyclohexane	7.379	83	48276	19.372	ug/l	97
39) 1,2-Dichloropropane	7.434	63	31871	21.034	ug/l	97
40) Dibromomethane	7.580	93	24361	21.788	ug/l	97
41) Bromodichloromethane	7.824	83	42758	20.946	ug/l	99
42) Vinyl Acetate	3.721	43	328619	109.558	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	4.715	43	51570	27.416	ug/l	#	81
44) Isopropyl Acetate	6.342	43	75833	24.369	ug/l		99
45) 1,4-Dioxane	7.659	88	16146	450.251	ug/l	#	1
46) Methyl methacrylate	7.696	41	35815	24.211	ug/l		98
47) n-amyl Acetate	10.842	43	66043	22.557	ug/l		95
48) t-1,3-Dichloropropene	8.976	75	43659	19.688	ug/l		91
49) cis-1,3-Dichloropropene	8.366	75	47027	19.747	ug/l		97
50) 1,1,2-Trichloroethane	9.153	97	33823	21.169	ug/l		98
51) Ethyl methacrylate	9.116	69	50678	21.526	ug/l		98
52) 1,3-Dichloropropane	9.311	76	56876	22.191	ug/l		99
53) Dibromochloromethane	9.519	129	31868	19.352	ug/l		96
54) 1,2-Dibromoethane	9.610	107	36484	21.042	ug/l		99
55) 2-Chloroethyl vinyl ether	8.245	63	136267	118.736	ug/l		100
56) Bromoform	10.799	173	23194	18.727	ug/l		99
58) 4-Methyl-2-Pentanone	8.574	43	271424	136.887	ug/l		100
59) 2-Hexanone	9.427	43	212279	140.972	ug/l		99
61) Tetrachloroethene	9.275	164	28125	19.511	ug/l		99
62) Toluene	8.720	91	143132	20.371	ug/l		98
64) Chlorobenzene	10.080	112	88833	20.267	ug/l		100
65) 1,1,1,2-Tetrachloroethane	10.165	131	30762	19.335	ug/l		99
66) Ethyl Benzene	10.195	91	158174	20.398	ug/l		98
67) m/p-Xylenes	10.299	106	123083	40.292	ug/l		96
68) o-Xylene	10.640	106	59652	20.165	ug/l		96
69) Styrene	10.659	104	99623	20.074	ug/l		99
70) Isopropylbenzene	10.964	105	158117	20.140	ug/l		96
71) 1,1,2,2-Tetrachloroethane	11.213	83	58059	22.439	ug/l		99
72) 1,2,3-Trichloropropane	11.238	75	54106m	23.815	ug/l		
73) Bromobenzene	11.195	156	38671	19.420	ug/l		96
74) n-propylbenzene	11.305	91	194596	20.748	ug/l		97
75) 2-Chlorotoluene	11.366	91	114929	20.931	ug/l		99
76) 1,3,5-Trimethylbenzene	11.451	105	138250	20.420	ug/l		97
77) t-1,4-Dichloro-2-butene	11.018	75	13046	18.131	ug/l		97
78) 4-Chlorotoluene	11.457	91	133685	20.754	ug/l		99
79) tert-butylbenzene	11.713	119	130052	19.517	ug/l		99
80) 1,2,4-Trimethylbenzene	11.750	105	134730	20.019	ug/l		98
81) sec-Butylbenzene	11.890	105	173722	20.273	ug/l		96
82) p-Isopropyltoluene	12.006	119	139662	19.413	ug/l		97
83) 1,3-Dichlorobenzene	11.969	146	74312	19.314	ug/l		99
84) 1,4-Dichlorobenzene	12.043	146	76053	19.507	ug/l		99
85) n-Butylbenzene	12.335	91	135873	20.186	ug/l		97
86) Hexachloroethane	12.536	117	21483	18.328	ug/l		98
87) 1,2-Dichlorobenzene	12.335	146	72908	19.232	ug/l		97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	13277	25.762	ug/l		97
89) 1,2,4-Trichlorobenzene	13.585	180	47626	18.465	ug/l		100
90) Hexachlorobutadiene	13.725	225	19217	16.960	ug/l		99
91) Naphthalene	13.774	128	164891	21.079	ug/l		100
92) 1,2,3-Trichlorobenzene	13.963	180	47101	18.758	ug/l		99

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

