

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040723\
 Data File : VX034961.D
 Acq On : 07 Apr 2023 10:26
 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 04/10/2023
 Supervised By : Mahesh Dadoda 04/10/2023

Quant Time: Apr 07 23:55:39 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 28 09:11:00 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.898	128	26224	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	188288	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	206823	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	84721	33.623	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 112.067%#			
60) 4-Bromofluorobenzene	11.079	95	125368	30.336	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.133%			
63) Toluene-d8	8.647	98	209501	29.807	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.367%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	61572	24.755	ug/l	97
3) Chloromethane	1.295	50	67446	20.913	ug/l	94
4) Vinyl Chloride	1.374	62	65442	20.567	ug/l	98
5) Bromomethane	1.612	94	34254	16.366	ug/l	100
6) Chloroethane	1.685	64	37929	18.317	ug/l	98
7) Trichlorofluoromethane	1.886	101	95937	18.928	ug/l	97
8) Diethyl Ether	2.130	74	37419	20.507	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.331	101	56346	21.912	ug/l	97
10) 1,1-Dichloroethene	2.319	96	52038	19.992	ug/l	96
11) Methyl Iodide	2.453	142	49195	14.841	ug/l	97
12) Methyl Acetate	2.703	43	124170	21.541	ug/l	97
13) Acrolein	2.233	56	66158	98.971	ug/l	99
14) Acrylonitrile	3.063	53	170119	107.174	ug/l	98
15) Acetone	2.386	58	51956	120.566	ug/l	94
16) Carbon Disulfide	2.514	76	122476	18.395	ug/l	99
17) Allyl chloride	2.660	41	103631	20.574	ug/l	98
18) Methylene Chloride	2.788	84	62278	20.311	ug/l	96
19) trans-1,2-Dichloroethene	3.087	96	57673	20.248	ug/l	92
20) Diisopropyl ether	3.751	45	218375	21.162	ug/l	98
21) 1,1-Dichloroethane	3.605	63	113074	20.493	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	67611	20.381	ug/l	99
23) tert-Butyl Alcohol	2.983	59	73283m	102.611	ug/l	
24) Methyl tert-Butyl Ether	3.105	73	206359	21.334	ug/l	100
25) Chloroform	5.087	83	117867	21.002	ug/l	99
26) Cyclohexane	5.465	56	97992	20.266	ug/l #	97
29) 1,1-Dichloropropene	5.684	75	85665	19.781	ug/l	98
30) 2-Butanone	4.550	43	254248	105.274	ug/l #	96
31) 2,2-Dichloropropane	4.471	77	86671	19.735	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	98094	19.308	ug/l	98
33) Carbon Tetrachloride	5.672	117	84445	20.140	ug/l	96
34) Benzene	6.031	78	246682	19.601	ug/l	98
35) Methacrylonitrile	4.916	41	52786	19.969	ug/l	97
36) 1,2-Dichloroethane	6.080	62	103520	20.980	ug/l	98
37) Trichloroethene	7.123	130	62872	19.630	ug/l	92
38) Methylcyclohexane	7.373	83	91235	19.283	ug/l	96
39) 1,2-Dichloropropane	7.428	63	64753	19.795	ug/l	96
40) Dibromomethane	7.574	93	44616	19.855	ug/l	98
41) Bromodichloromethane	7.818	83	84632	19.995	ug/l	99
42) Vinyl Acetate	3.715	43	793381	100.696	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.702	43	93755	20.016	ug/l	99
44) Isopropyl Acetate	6.336	43	153785	19.395	ug/l	98
45) 1,4-Dioxane	7.684	88	32901	418.820	ug/l	94
46) Methyl methacrylate	7.690	41	77987	20.186	ug/l	96
47) n-amyl Acetate	10.842	43	126245	18.314	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	85762	18.596	ug/l	98
49) cis-1,3-Dichloropropene	8.360	75	97155	19.175	ug/l	98
50) 1,1,2-Trichloroethane	9.147	97	62445	19.946	ug/l	99
51) Ethyl methacrylate	9.116	69	99220	19.527	ug/l	97
52) 1,3-Dichloropropane	9.305	76	110624	20.004	ug/l	99
53) Dibromochloromethane	9.519	129	59590	19.241	ug/l	99
54) 1,2-Dibromoethane	9.610	107	66018	19.714	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	273459	102.269	ug/l	99
56) Bromoform	10.799	173	38834	18.186	ug/l	96
58) 4-Methyl-2-Pentanone	8.568	43	485969	102.482	ug/l	100
59) 2-Hexanone	9.427	43	365904	102.485	ug/l	100
61) Tetrachloroethene	9.269	164	56153	20.150	ug/l	98
62) Toluene	8.714	91	264474	19.556	ug/l	99
64) Chlorobenzene	10.080	112	164200	19.716	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	57844	19.429	ug/l	98
66) Ethyl Benzene	10.189	91	298461	19.815	ug/l	98
67) m/p-Xylenes	10.299	106	227601	39.713	ug/l	99
68) o-Xylene	10.640	106	110056	19.418	ug/l	96
69) Styrene	10.653	104	182870	19.572	ug/l	99
70) Isopropylbenzene	10.964	105	288737	19.684	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	96126	19.937	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	82712m	18.845	ug/l	
73) Bromobenzene	11.195	156	69203	19.645	ug/l	96
74) n-propylbenzene	11.305	91	334155	19.569	ug/l	100
75) 2-Chlorotoluene	11.366	91	213362	20.043	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	244464	19.798	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	21373	15.856	ug/l	88
78) 4-Chlorotoluene	11.451	91	243414	19.945	ug/l	99
79) tert-butylbenzene	11.713	119	227148	19.271	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	242891	19.795	ug/l	97
81) sec-Butylbenzene	11.890	105	279918	19.599	ug/l	99
82) p-Isopropyltoluene	12.006	119	232258	19.270	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	127433	19.156	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	130336	19.510	ug/l	99
85) n-Butylbenzene	12.329	91	198996	19.157	ug/l	99
86) Hexachloroethane	12.536	117	33939	17.193	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	126992	19.509	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.939	75	20502	19.458	ug/l	93
89) 1,2,4-Trichlorobenzene	13.585	180	76272	19.532	ug/l	99
90) Hexachlorobutadiene	13.725	225	31241	20.745	ug/l	98
91) Naphthalene	13.774	128	270652	19.617	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	76270	19.537	ug/l	99

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

