

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061724\
 Data File : VX041900.D
 Acq On : 17 Jun 2024 10:15
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Quant Time: Jun 18 02:03:37 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 15 04:02:59 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John
 Carlone
 06/18/2024

Supervised By :Mahesh
 Dadoda
 06/18/2024

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

Internal Standards						
1) Bromochloromethane	4.897	128	30182	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	163101	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	153140	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	62969	30.307	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.033%			
60) 4-Bromofluorobenzene	11.079	95	72515	30.591	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.967%			
63) Toluene-d8	8.647	98	199767	30.490	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.633%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	36183	18.520	ug/l	99
3) Chloromethane	1.300	50	38555	17.653	ug/l	100
4) Vinyl Chloride	1.374	62	37669	17.637	ug/l	99
5) Bromomethane	1.593	94	19342	16.941	ug/l	99
6) Chloroethane	1.666	64	19958	21.872	ug/l	96
7) Trichlorofluoromethane	1.867	101	51252	19.055	ug/l	98
8) Diethyl Ether	2.136	74	22497	19.327	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	33964	18.574	ug/l	99
10) 1,1-Dichloroethene	2.306	96	32611	17.680	ug/l	96
11) Methyl Iodide	2.440	142	42163	17.563	ug/l	99
12) Methyl Acetate	2.709	43	47674	20.272	ug/l	97
13) Acrolein	2.239	56	42984	90.649	ug/l	100
14) Acrylonitrile	3.068	53	112408	100.707	ug/l	99
15) Acetone	2.392	58	32044	100.356	ug/l	100
16) Carbon Disulfide	2.501	76	73270	18.125	ug/l	98
17) Allyl chloride	2.654	41	53761	19.191	ug/l	96
18) Methylene Chloride	2.788	84	39029	18.447	ug/l	97
19) trans-1,2-Dichloroethene	3.087	96	33422	18.088	ug/l	98
20) Diisopropyl ether	3.763	45	111974	19.446	ug/l	95
21) 1,1-Dichloroethane	3.605	63	61082	18.571	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	41346	18.485	ug/l	98
23) tert-Butyl Alcohol	2.989	59	43764	105.460	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	111055	19.463	ug/l	99
25) Chloroform	5.092	83	63889	19.113	ug/l	98
26) Cyclohexane	5.464	56	51404	17.994	ug/l #	100
29) 1,1-Dichloropropene	5.690	75	41736	19.606	ug/l	97
30) 2-Butanone	4.568	43	154181	108.397	ug/l	99
31) 2,2-Dichloropropane	4.471	77	44390	19.031	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	52965	19.628	ug/l	99
33) Carbon Tetrachloride	5.672	117	46101	19.809	ug/l	97
34) Benzene	6.031	78	139326	19.647	ug/l	99
35) Methacrylonitrile	4.928	41	30205	21.142	ug/l	95
36) 1,2-Dichloroethane	6.086	62	46478	21.039	ug/l	98
37) Trichloroethene	7.123	130	37422	19.320	ug/l	96
38) Methylcyclohexane	7.379	83	53782	19.074	ug/l	98
39) 1,2-Dichloropropane	7.427	63	34232	20.265	ug/l	96
40) Dibromomethane	7.580	93	25461	20.376	ug/l	98
41) Bromodichloromethane	7.824	83	46607	20.819	ug/l	97
42) Vinyl Acetate	3.721	43	502658	105.578	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	57226	21.457	ug/l	99
44) Isopropyl Acetate	6.342	43	84491	21.152	ug/l	99
45) 1,4-Dioxane	7.665	88	20445	419.896	ug/l	96
46) Methyl methacrylate	7.696	41	41514	21.256	ug/l	97
47) n-amyl Acetate	10.841	43	71939	20.067	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	45901	19.914	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	51667	19.983	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	37424	20.597	ug/l	98
51) Ethyl methacrylate	9.116	69	59353	20.563	ug/l	98
52) 1,3-Dichloropropane	9.305	76	62213	20.944	ug/l	98
53) Dibromochloromethane	9.518	129	41722	20.983	ug/l	100
54) 1,2-Dibromoethane	9.610	107	41191	21.498	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	142551	106.104	ug/l	100
56) Bromoform	10.799	173	33400	20.600	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	295775	107.784	ug/l	99
59) 2-Hexanone	9.433	43	228390	107.831	ug/l	100
61) Tetrachloroethene	9.275	164	38116	19.780	ug/l	99
62) Toluene	8.714	91	153514	19.810	ug/l	100
64) Chlorobenzene	10.079	112	103715	19.654	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	36920	20.258	ug/l	99
66) Ethyl Benzene	10.195	91	166889	19.698	ug/l	100
67) m/p-Xylenes	10.299	106	134764	39.545	ug/l	99
68) o-Xylene	10.640	106	66814	19.665	ug/l	98
69) Styrene	10.652	104	112203	19.762	ug/l	99
70) Isopropylbenzene	10.963	105	169252	19.812	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	61509	20.805	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	49340m	20.604	ug/l	
73) Bromobenzene	11.195	156	48979	19.656	ug/l	100
74) n-propylbenzene	11.305	91	188869	20.126	ug/l	99
75) 2-Chlorotoluene	11.366	91	120042	20.145	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	141423	19.760	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	16660	18.806	ug/l	97
78) 4-Chlorotoluene	11.457	91	131921	19.928	ug/l	100
79) tert-butylbenzene	11.713	119	150411	19.799	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	143314	20.044	ug/l	100
81) sec-Butylbenzene	11.890	105	177251	20.004	ug/l	100
82) p-Isopropyltoluene	12.006	119	155479	20.024	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	87441	19.681	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	87590	19.805	ug/l	100
85) n-Butylbenzene	12.335	91	117763	19.613	ug/l	99
86) Hexachloroethane	12.536	117	25169	19.849	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	88353	19.663	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	12762	20.869	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	56770	18.664	ug/l	99
90) Hexachlorobutadiene	13.725	225	30490	20.343	ug/l	99
91) Naphthalene	13.774	128	176093	19.160	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	60204	19.112	ug/l	97

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

