

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032823\
 Data File : VX034788.D
 Acq On : 28 Mar 2023 13:12
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By :Krupa Patel 03/29/2023
 Supervised By :Semsettin Yesilyurt 03/29/2023

Quant Time: Mar 28 15:18:50 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	4.897	128	27232	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	184516	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	199784	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	79325	30.317	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	101.067%		
60) 4-Bromofluorobenzene	11.079	95	113719	28.487	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	94.967%		
63) Toluene-d8	8.647	98	203545	29.980	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.933%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	48616	18.823	ug/l	97
3) Chloromethane	1.294	50	68660	20.501	ug/l	98
4) Vinyl Chloride	1.374	62	66483	20.120	ug/l	94
5) Bromomethane	1.618	94	46206	21.260	ug/l	94
6) Chloroethane	1.691	64	43158	20.070	ug/l	98
7) Trichlorofluoromethane	1.892	101	101127	19.214	ug/l	100
8) Diethyl Ether	2.130	74	39701	20.952	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	49622	18.583	ug/l	99
10) 1,1-Dichloroethene	2.319	96	50284	18.603	ug/l	93
11) Methyl Iodide	2.453	142	64848	18.839	ug/l	95
12) Methyl Acetate	2.703	43	120841	20.187	ug/l	99
13) Acrolein	2.239	56	69335	99.884	ug/l	98
14) Acrylonitrile	3.069	53	167273	101.481	ug/l	99
15) Acetone	2.392	58	45522	101.726	ug/l	94
16) Carbon Disulfide	2.514	76	119208	17.242	ug/l	98
17) Allyl chloride	2.666	41	100417	19.198	ug/l	98
18) Methylene Chloride	2.788	84	61844	19.422	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	56600	19.136	ug/l	96
20) Diisopropyl ether	3.757	45	216039	20.161	ug/l	98
21) 1,1-Dichloroethane	3.611	63	111339	19.431	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	67170	19.498	ug/l	99
23) tert-Butyl Alcohol	3.008	59	66793	90.062	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	199398	19.851	ug/l	98
25) Chloroform	5.093	83	113817	19.529	ug/l	98
26) Cyclohexane	5.471	56	89369	17.798	ug/l #	97
29) 1,1-Dichloropropene	5.696	75	79428	18.716	ug/l	99
30) 2-Butanone	4.562	43	243757	102.993	ug/l	99
31) 2,2-Dichloropropane	4.477	77	81607	18.962	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	89986	18.075	ug/l	99
33) Carbon Tetrachloride	5.678	117	72858	17.731	ug/l	98
34) Benzene	6.037	78	242294	19.646	ug/l	99
35) Methacrylonitrile	4.922	41	51673	19.948	ug/l	95
36) 1,2-Dichloroethane	6.086	62	97784	20.222	ug/l	100
37) Trichloroethene	7.129	130	59251	18.878	ug/l	99
38) Methylcyclohexane	7.379	83	85207	18.377	ug/l	99
39) 1,2-Dichloropropane	7.428	63	63530	19.818	ug/l	95
40) Dibromomethane	7.580	93	43959	19.962	ug/l	100
41) Bromodichloromethane	7.818	83	78697	18.973	ug/l #	98
42) Vinyl Acetate	3.721	43	787378	101.977	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	92268	20.101	ug/l	99
44) Isopropyl Acetate	6.342	43	153834	19.798	ug/l	98
45) 1,4-Dioxane	7.714	88	32704	424.822	ug/l #	67
46) Methyl methacrylate	7.690	41	74491	19.675	ug/l	97
47) n-amyl Acetate	10.842	43	129031	19.100	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	83121	18.392	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	93528	18.837	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	62809	20.473	ug/l	97
51) Ethyl methacrylate	9.116	69	96675	19.415	ug/l	97
52) 1,3-Dichloropropane	9.311	76	109441	20.194	ug/l	99
53) Dibromochloromethane	9.519	129	56017	18.457	ug/l	100
54) 1,2-Dibromoethane	9.610	107	64938	19.788	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	279585	106.698	ug/l	100
56) Bromoform	10.799	173	35720	17.069	ug/l	97
58) 4-Methyl-2-Pentanone	8.574	43	485369	105.962	ug/l	99
59) 2-Hexanone	9.427	43	364280	105.625	ug/l	99
61) Tetrachloroethene	9.275	164	51213	19.024	ug/l	97
62) Toluene	8.720	91	251418	19.246	ug/l	99
64) Chlorobenzene	10.079	112	153398	19.068	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	54941	19.104	ug/l	98
66) Ethyl Benzene	10.195	91	277736	19.088	ug/l	99
67) m/p-Xylenes	10.299	106	210857	38.088	ug/l	97
68) o-Xylene	10.640	106	104023	19.000	ug/l	99
69) Styrene	10.653	104	167987	18.612	ug/l	99
70) Isopropylbenzene	10.963	105	262317	18.513	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	94266	20.240	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	77474m	18.274	ug/l	
73) Bromobenzene	11.195	156	66235	19.465	ug/l	98
74) n-propylbenzene	11.305	91	302510	18.340	ug/l	100
75) 2-Chlorotoluene	11.366	91	189334	18.412	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	219321	18.388	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	21524	16.531	ug/l	93
78) 4-Chlorotoluene	11.451	91	216195	18.339	ug/l	99
79) tert-butylbenzene	11.713	119	208342	18.298	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	220151	18.574	ug/l	99
81) sec-Butylbenzene	11.890	105	250135	18.130	ug/l	99
82) p-Isopropyltoluene	12.006	119	207499	17.823	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	120247	18.712	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	119054	18.449	ug/l	99
85) n-Butylbenzene	12.329	91	177596	17.700	ug/l	99
86) Hexachloroethane	12.536	117	30459	15.973	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	119915	19.070	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	18544	18.220	ug/l	95
89) 1,2,4-Trichlorobenzene	13.585	180	68692	18.211	ug/l	98
90) Hexachlorobutadiene	13.725	225	25337	17.417	ug/l	96
91) Naphthalene	13.774	128	258837	19.422	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	71708	19.016	ug/l	98

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

