

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010923\
 Data File : VX033655.D
 Acq On : 09 Jan 2023 10:35
 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 : Semsettin Yesilyurt 01/10/2023
 Supervised By : Mahesh Dadoda 01/11/2023

Quant Time: Jan 10 00:44:21 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jan 07 06:16:21 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	13335	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	96413	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	106156	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	36427	33.737	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 112.467%#			
60) 4-Bromofluorobenzene	11.079	95	59108	30.894	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.967%			
63) Toluene-d8	8.647	98	104629	30.797	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.667%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	26763	19.190	ug/l	99
3) Chloromethane	1.294	50	24533	16.411	ug/l	96
4) Vinyl Chloride	1.374	62	23724	17.569	ug/l	97
5) Bromomethane	1.618	94	15146	20.251	ug/l	99
6) Chloroethane	1.691	64	14476	18.305	ug/l	95
7) Trichlorofluoromethane	1.892	101	42307	20.303	ug/l	96
8) Diethyl Ether	2.130	74	12873	18.974	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	22266	20.607	ug/l	99
10) 1,1-Dichloroethene	2.319	96	19982	19.615	ug/l	95
11) Methyl Iodide	2.453	142	37061	21.163	ug/l	100
12) Methyl Acetate	2.709	43	47945	22.481	ug/l	93
13) Acrolein	2.239	56	19563	85.074	ug/l	99
14) Acrylonitrile	3.069	53	77724	110.512	ug/l	99
15) Acetone	2.398	58	18240	114.599	ug/l	92
16) Carbon Disulfide	2.514	76	78423	26.456	ug/l	99
17) Allyl chloride	2.666	41	53708	24.783	ug/l	91
18) Methylene Chloride	2.788	84	32119	22.514	ug/l	99
19) trans-1,2-Dichloroethene	3.093	96	30678	22.415	ug/l	92
20) Diisopropyl ether	3.751	45	105143	22.479	ug/l #	78
21) 1,1-Dichloroethane	3.605	63	55292	21.555	ug/l	97
22) cis-1,2-Dichloroethene	4.489	96	36004	22.121	ug/l	98
23) tert-Butyl Alcohol	3.020	59	27827m	100.170	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	96196	22.114	ug/l	99
25) Chloroform	5.086	83	58111	22.319	ug/l	92
26) Cyclohexane	5.471	56	53106	22.306	ug/l #	100
29) 1,1-Dichloropropene	5.690	75	43506	20.876	ug/l	99
30) 2-Butanone	4.574	43	114333	105.054	ug/l #	98
31) 2,2-Dichloropropane	4.477	77	43617	24.309	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	52362	21.521	ug/l	99
33) Carbon Tetrachloride	5.678	117	49781	22.668	ug/l	99
34) Benzene	6.038	78	125699	20.762	ug/l	99
35) Methacrylonitrile	4.916	41	24828	20.021	ug/l	95
36) 1,2-Dichloroethane	6.080	62	46549	21.150	ug/l	100
37) Trichloroethene	7.123	130	35329	20.234	ug/l	92
38) Methylcyclohexane	7.379	83	54886	21.180	ug/l	100
39) 1,2-Dichloropropane	7.428	63	31900	20.617	ug/l	95
40) Dibromomethane	7.580	93	22444	20.640	ug/l	98
41) Bromodichloromethane	7.818	83	47145	22.353	ug/l	95
42) Vinyl Acetate	3.721	43	391728	100.721	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	43702	19.597	ug/l	99
44) Isopropyl Acetate	6.336	43	69274	19.800	ug/l	100
45) 1,4-Dioxane	7.726	88	15509	406.320	ug/l #	1
46) Methyl methacrylate	7.690	41	35432	20.002	ug/l	98
47) n-amyl Acetate	10.842	43	59738	20.055	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	47606	22.090	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	52529	21.946	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	32109	20.342	ug/l	98
51) Ethyl methacrylate	9.116	69	46979	19.959	ug/l	98
52) 1,3-Dichloropropane	9.305	76	53425	20.208	ug/l	99
53) Dibromochloromethane	9.519	129	39585	23.009	ug/l	96
54) 1,2-Dibromoethane	9.610	107	35244	20.893	ug/l	96
55) 2-Chloroethyl vinyl ether	8.238	63	112837	99.165	ug/l	100
56) Bromoform	10.799	173	31620	23.938	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	222094	105.321	ug/l	100
59) 2-Hexanone	9.427	43	167764	108.100	ug/l	99
61) Tetrachloroethene	9.269	164	31759	20.735	ug/l	98
62) Toluene	8.714	91	140808	21.071	ug/l	99
64) Chlorobenzene	10.079	112	88870	20.648	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	35412	21.861	ug/l	98
66) Ethyl Benzene	10.189	91	156997	21.067	ug/l	100
67) m/p-Xylenes	10.299	106	125019	42.506	ug/l	99
68) o-Xylene	10.640	106	60683	20.991	ug/l	98
69) Styrene	10.653	104	101410	21.195	ug/l	99
70) Isopropylbenzene	10.963	105	162438	21.696	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	49206	21.828	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	44659m	21.868	ug/l	
73) Bromobenzene	11.195	156	41126	20.756	ug/l	99
74) n-propylbenzene	11.305	91	186298	21.917	ug/l	98
75) 2-Chlorotoluene	11.366	91	110260	21.687	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	136403	21.944	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	15276	25.003	ug/l	84
78) 4-Chlorotoluene	11.451	91	125128	21.946	ug/l	99
79) tert-butylbenzene	11.713	119	139401	21.867	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	134010	21.823	ug/l	99
81) sec-Butylbenzene	11.890	105	169248	21.941	ug/l	98
82) p-Isopropyltoluene	12.006	119	146849	22.073	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	77123	21.322	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	76355	21.173	ug/l	100
85) n-Butylbenzene	12.329	91	121800	22.518	ug/l	99
86) Hexachloroethane	12.536	117	27991	25.861	ug/l	95
87) 1,2-Dichlorobenzene	12.335	146	74879	21.490	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	10097	21.574	ug/l	96
89) 1,2,4-Trichlorobenzene	13.585	180	50731	21.170	ug/l	98
90) Hexachlorobutadiene	13.725	225	25379	22.087	ug/l	98
91) Naphthalene	13.774	128	149196	21.202	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	50738	21.102	ug/l	100

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

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