

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120823\
 Data File : VX039094.D
 Acq On : 08 Dec 2023 10:12
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/11/2023
 Supervised By :Mahesh Dadoda 12/11/2023

Quant Time: Dec 08 23:43:46 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X112423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 27 03:22:25 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.891	128	11258	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	91786	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	112314	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	47175	30.630	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 102.100%		
60) 4-Bromofluorobenzene	11.079	95	74079	30.198	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 100.667%		
63) Toluene-d8	8.647	98	134213	30.225	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 100.733%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	31810	18.878	ug/l	97
3) Chloromethane	1.294	50	37610	19.493	ug/l	96
4) Vinyl Chloride	1.374	62	37526	19.266	ug/l	99
5) Bromomethane	1.611	94	27903	23.421	ug/l	99
6) Chloroethane	1.691	64	23304	20.545	ug/l	95
7) Trichlorofluoromethane	1.892	101	52666	19.590	ug/l	94
8) Diethyl Ether	2.130	74	20768	20.125	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.331	101	33440	22.012	ug/l	98
10) 1,1-Dichloroethene	2.319	96	32669	21.334	ug/l	98
11) Methyl Iodide	2.453	142	27970	16.668	ug/l	95
12) Methyl Acetate	2.697	43	106600	22.320	ug/l	99
13) Acrolein	2.233	56	40526	96.860	ug/l	100
14) Acrylonitrile	3.056	53	124388	106.484	ug/l	99
15) Acetone	2.373	58	52664	124.029	ug/l	96
16) Carbon Disulfide	2.514	76	91131	19.649	ug/l	96
17) Allyl chloride	2.666	41	66006	21.713	ug/l	98
18) Methylene Chloride	2.788	84	38779	21.364	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	35619	20.566	ug/l	93
20) Diisopropyl ether	3.757	45	128670	22.242	ug/l #	87
21) 1,1-Dichloroethane	3.611	63	69639	21.651	ug/l	100
22) cis-1,2-Dichloroethene	4.483	96	42947	21.397	ug/l	99
23) tert-Butyl Alcohol	2.940	59	53876	83.312	ug/l #	100
24) Methyl tert-Butyl Ether	3.105	73	121365	21.514	ug/l	99
25) Chloroform	5.086	83	68454	21.205	ug/l	98
26) Cyclohexane	5.470	56	60839	20.898	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	50847	19.762	ug/l	99
30) 2-Butanone	4.544	43	205404	106.030	ug/l	100
31) 2,2-Dichloropropane	4.471	77	59724	20.301	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	58805	19.773	ug/l	98
33) Carbon Tetrachloride	5.666	117	48165	19.227	ug/l	99
34) Benzene	6.031	78	154492	20.612	ug/l	97
35) Methacrylonitrile	4.916	41	35342	20.596	ug/l	91
36) 1,2-Dichloroethane	6.086	62	55613	20.221	ug/l	100
37) Trichloroethene	7.123	130	37880	19.912	ug/l	91
38) Methylcyclohexane	7.379	83	64951	20.259	ug/l	100
39) 1,2-Dichloropropane	7.427	63	42493	21.496	ug/l	98
40) Dibromomethane	7.574	93	27524	19.707	ug/l	98
41) Bromodichloromethane	7.818	83	55317	20.616	ug/l	98
42) Vinyl Acetate	3.715	43	476203	103.206	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	65526	19.661	ug/l	98
44) Isopropyl Acetate	6.330	43	107156	20.395	ug/l	100
45) 1,4-Dioxane	7.653	88	15891	296.281	ug/l	94
46) Methyl methacrylate	7.690	41	61208	20.376	ug/l	97
47) n-amyl Acetate	10.841	43	89779	20.189	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	60999	19.606	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	66256	20.643	ug/l	98
50) 1,1,2-Trichloroethane	9.147	97	39399	20.766	ug/l	98
51) Ethyl methacrylate	9.116	69	49654	20.907	ug/l	91
52) 1,3-Dichloropropane	9.305	76	67217	20.661	ug/l	99
53) Dibromochloromethane	9.519	129	40320	19.788	ug/l	99
54) 1,2-Dibromoethane	9.604	107	41024	19.717	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	147186	97.774	ug/l	99
56) Bromoform	10.799	173	27099	18.427	ug/l	98
58) 4-Methyl-2-Pentanone	8.567	43	358122	105.148	ug/l	99
59) 2-Hexanone	9.427	43	296531	106.067	ug/l	100
61) Tetrachloroethene	9.269	164	28836	19.747	ug/l	97
62) Toluene	8.714	91	165485	20.753	ug/l	99
64) Chlorobenzene	10.079	112	99225	20.457	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	36098	20.665	ug/l	99
66) Ethyl Benzene	10.189	91	187695	20.672	ug/l	98
67) m/p-Xylenes	10.299	106	137854	41.087	ug/l	98
68) o-Xylene	10.640	106	67367	20.728	ug/l	99
69) Styrene	10.652	104	97503	20.271	ug/l	99
70) Isopropylbenzene	10.963	105	180500	20.757	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.207	83	68652	21.148	ug/l	97
72) 1,2,3-Trichloropropane	11.238	75	58311m	21.228	ug/l	
73) Bromobenzene	11.195	156	39821	20.114	ug/l	97
74) n-propylbenzene	11.305	91	221816	20.820	ug/l	99
75) 2-Chlorotoluene	11.360	91	128928	20.627	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	150343	20.069	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	21415	19.675	ug/l	97
78) 4-Chlorotoluene	11.451	91	151465	20.611	ug/l	97
79) tert-butylbenzene	11.713	119	146185	20.522	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	152931	20.398	ug/l	99
81) sec-Butylbenzene	11.890	105	187116	20.779	ug/l	99
82) p-Isopropyltoluene	12.006	119	152912	20.035	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	76362	20.155	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	78505	20.194	ug/l	99
85) n-Butylbenzene	12.329	91	154165	20.455	ug/l	99
86) Hexachloroethane	12.536	117	28765	19.892	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	74272	20.386	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	15895	19.146	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	48759	20.186	ug/l	97
90) Hexachlorobutadiene	13.725	225	17783	20.618	ug/l	99
91) Naphthalene	13.774	128	175847	19.740	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	48688	20.810	ug/l	98

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

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