

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100623\
 Data File : VX038145.D
 Acq On : 06 Oct 2023 22:43
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/09/2023
 Supervised By : Mahesh Dadoda 10/09/2023

Quant Time: Oct 07 06:15:42 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X100623W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Oct 07 06:04:00 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	10180	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	77463	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	102810	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	42924	30.864	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.867%			
60) 4-Bromofluorobenzene	11.079	95	62552	29.207	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.367%			
63) Toluene-d8	8.647	98	121022	30.399	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.333%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	25485	20.803	ug/l	99
3) Chloromethane	1.300	50	25220	20.785	ug/l	99
4) Vinyl Chloride	1.374	62	29991	21.101	ug/l	96
5) Bromomethane	1.605	94	30821	17.922	ug/l	97
6) Chloroethane	1.691	64	23557	19.459	ug/l	94
7) Trichlorofluoromethane	1.886	101	61740	20.396	ug/l	97
8) Diethyl Ether	2.136	74	23057	20.879	ug/l	84
9) 1,1,2-Trichlorotrifluo...	2.331	101	23780	20.566	ug/l	98
10) 1,1-Dichloroethene	2.319	96	23559	20.914	ug/l	93
11) Methyl Iodide	2.453	142	34647	20.640	ug/l	98
12) Methyl Acetate	2.703	43	73601	19.198	ug/l	97
13) Acrolein	2.233	56	25259	105.099	ug/l	96
14) Acrylonitrile	3.062	53	91573	101.915	ug/l	96
15) Acetone	2.380	58	24294	101.541	ug/l	99
16) Carbon Disulfide	2.514	76	59576	19.792	ug/l	97
17) Allyl chloride	2.666	41	37256	19.681	ug/l	88
18) Methylene Chloride	2.788	84	30019	20.438	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	28153	19.957	ug/l	96
20) Diisopropyl ether	3.763	45	84770	20.406	ug/l #	93
21) 1,1-Dichloroethane	3.611	63	51674	20.439	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	33325	20.058	ug/l	96
23) tert-Butyl Alcohol	2.953	59	39125	98.899	ug/l #	1
24) Methyl tert-Butyl Ether	3.117	73	89180	20.166	ug/l	99
25) Chloroform	5.092	83	57726	20.108	ug/l	98
26) Cyclohexane	5.470	56	43037	20.124	ug/l #	95
29) 1,1-Dichloropropene	5.696	75	41407	20.204	ug/l	99
30) 2-Butanone	4.556	43	134462	102.074	ug/l	98
31) 2,2-Dichloropropane	4.477	77	29558	19.523	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	47933	19.574	ug/l	98
33) Carbon Tetrachloride	5.678	117	40285	19.416	ug/l	95
34) Benzene	6.037	78	123736	20.409	ug/l	98
35) Methacrylonitrile	4.922	41	25458	20.643	ug/l	96
36) 1,2-Dichloroethane	6.086	62	48240	20.510	ug/l #	86
37) Trichloroethene	7.129	130	32020	20.053	ug/l	93
38) Methylcyclohexane	7.385	83	47863	19.606	ug/l	96
39) 1,2-Dichloropropane	7.434	63	30876	20.317	ug/l	92
40) Dibromomethane	7.586	93	23964	20.180	ug/l	96
41) Bromodichloromethane	7.824	83	41755	19.614	ug/l #	98
42) Vinyl Acetate	3.721	43	300334	103.587	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	49380	20.265	ug/l	98
44) Isopropyl Acetate	6.342	43	73166	20.170	ug/l	99
45) 1,4-Dioxane	7.659	88	18992	411.994	ug/l #	1
46) Methyl methacrylate	7.696	41	35572	19.890	ug/l	99
47) n-amyl Acetate	10.841	43	62252	19.768	ug/l	94
48) t-1,3-Dichloropropene	8.982	75	40577	18.544	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	43506	18.753	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	32883	19.613	ug/l	98
51) Ethyl methacrylate	9.116	69	48891	19.472	ug/l	96
52) 1,3-Dichloropropane	9.311	76	54923	20.144	ug/l	98
53) Dibromochloromethane	9.518	129	31155	18.758	ug/l	100
54) 1,2-Dibromoethane	9.610	107	34925	19.064	ug/l	97
55) 2-Chloroethyl vinyl ether	8.244	63	129490	102.176	ug/l	100
56) Bromoform	10.799	173	21433	17.267	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	264675	102.854	ug/l	98
59) 2-Hexanone	9.427	43	215013	103.927	ug/l	99
61) Tetrachloroethene	9.275	164	27589	19.639	ug/l	95
62) Toluene	8.720	91	136902	19.986	ug/l	98
64) Chlorobenzene	10.079	112	84829	19.776	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	28670	19.173	ug/l	99
66) Ethyl Benzene	10.195	91	153894	19.813	ug/l	100
67) m/p-Xylenes	10.305	106	118301	39.259	ug/l	96
68) o-Xylene	10.640	106	56406	19.292	ug/l	95
69) Styrene	10.659	104	94316	19.413	ug/l	98
70) Isopropylbenzene	10.963	105	151941	19.705	ug/l	96
71) 1,1,2,2-Tetrachloroethane	11.213	83	57461	20.218	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	49834m	19.280	ug/l	
73) Bromobenzene	11.201	156	36269	18.996	ug/l	99
74) n-propylbenzene	11.305	91	183941	19.630	ug/l	97
75) 2-Chlorotoluene	11.366	91	109306	19.853	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	130838	19.418	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	12445	17.688	ug/l	94
78) 4-Chlorotoluene	11.457	91	127969	19.545	ug/l	99
79) tert-butylbenzene	11.713	119	122164	19.086	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	130855	19.890	ug/l	97
81) sec-Butylbenzene	11.890	105	164861	19.688	ug/l	97
82) p-Isopropyltoluene	12.012	119	134675	19.455	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	73171	19.650	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	74200	19.570	ug/l	98
85) n-Butylbenzene	12.335	91	128376	19.436	ug/l	97
86) Hexachloroethane	12.536	117	20378	17.808	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	70061	19.411	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	12760	19.387	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	45794	19.544	ug/l	98
90) Hexachlorobutadiene	13.725	225	17821	18.908	ug/l	95
91) Naphthalene	13.774	128	155996	19.439	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	43975	19.173	ug/l	99

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

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