

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022521\
 Data File : VX020909.D
 Acq On : 25 Feb 2021 12:59
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda

2/26/2021 2:30:44 PM

Quant Time: Feb 25 13:24:22 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022521W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Feb 25 13:16:06 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.976	128	35000	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.823	114	199442	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.094	117	174803	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.023	65	74449	30.16	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.53%
60) 4-Bromofluorobenzene	11.118	95	87070	29.97	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	99.90%
63) Toluene-d8	8.694	98	239359	30.10	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.33%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.187	85	42871	22.33	ug/l	99
3) Chloromethane	1.311	50	45298	21.96	ug/l	98
4) Vinyl Chloride	1.393	62	54108	22.37	ug/l	97
5) Bromomethane	1.623	94	18393	17.67	ug/l	99
6) Chloroethane	1.699	64	34000	22.17	ug/l	96
7) Trichlorofluoromethane	1.905	101	70128	22.43	ug/l	94
8) Diethyl Ether	2.170	74	31757	22.61	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.358	101	44285	22.81	ug/l	98
10) 1,1-Dichloroethene	2.352	96	45729	22.91	ug/l	89
11) Methyl Iodide	2.487	142	50356	19.86	ug/l	92
12) Methyl Acetate	2.746	43	49142	22.20	ug/l	99
13) Acrolein	2.270	56	31732	100.08	ug/l	96
14) Acrylonitrile	3.117	53	121524	109.85	ug/l	99
15) Acetone	2.423	58	39449	117.89	ug/l	96
16) Carbon Disulfide	2.546	76	128775	22.83	ug/l	99
17) Allyl chloride	2.699	41	70375	22.23	ug/l	97
18) Methylene Chloride	2.829	84	51280	22.59	ug/l	96
19) trans-1,2-Dichloroethene	3.135	96	50252	22.57	ug/l	95
20) Diisopropyl ether	3.823	45	142955	22.24	ug/l	95
21) 1,1-Dichloroethane	3.664	63	85595	22.50	ug/l	100
22) cis-1,2-Dichloroethene	4.558	96	57302	22.56	ug/l	97
23) tert-Butyl Alcohol	3.023	59	54809	108.57	ug/l #	100
24) Methyl tert-Butyl Ether	3.164	73	158927	22.64	ug/l	99
25) Chloroform	5.176	83	87180	22.32	ug/l	99
26) Cyclohexane	5.541	56	77937	22.64	ug/l #	98
29) 1,1-Dichloropropene	5.758	75	67852	22.44	ug/l	99
30) 2-Butanone	4.635	43	166354	110.98	ug/l	100
31) 2,2-Dichloropropane	4.547	77	78469	22.51	ug/l	99
32) 1,1,1-Trichloroethane	5.458	97	75688	22.19	ug/l	100
33) Carbon Tetrachloride	5.747	117	65799	22.40	ug/l	96
34) Benzene	6.106	78	202666	22.26	ug/l	98
35) Methacrylonitrile	5.000	41	34915	21.73	ug/l	96
36) 1,2-Dichloroethane	6.159	62	67924	22.22	ug/l	98
37) Trichloroethene	7.182	130	55476	22.63	ug/l	95
38) Methylcyclohexane	7.435	83	87638	22.86	ug/l	98
39) 1,2-Dichloropropane	7.488	63	49171	21.75	ug/l	99
40) Dibromomethane	7.635	93	34192	22.06	ug/l	98
41) Bromodichloromethane	7.870	83	71792	22.24	ug/l	97
42) Vinyl Acetate	3.782	43	612566	109.83	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.794	43	61348	21.46	ug/l	100
44) Isopropyl Acetate	6.406	43	104786	21.73	ug/l	99
45) 1,4-Dioxane	7.712	88	24229	431.42	ug/l	98
46) Methyl methacrylate	7.741	41	52047	21.63	ug/l	98
47) n-amyl Acetate	10.877	43	86067	21.57	ug/l	97
48) t-1,3-Dichloropropene	9.018	75	78102	21.52	ug/l	100
49) cis-1,3-Dichloropropene	8.412	75	86473	21.93	ug/l	97
50) 1,1,2-Trichloroethane	9.194	97	50830	22.26	ug/l	99
51) Ethyl methacrylate	9.159	69	76869	21.46	ug/l	98
52) 1,3-Dichloropropane	9.347	76	85771	22.33	ug/l	98
53) Dibromochloromethane	9.565	129	52462	21.57	ug/l	97
54) 1,2-Dibromoethane	9.653	107	51358	21.59	ug/l	96
55) 2-Chloroethyl vinyl ether	8.288	63	183075	106.69	ug/l	100
56) Bromoform	10.836	173	38282	22.75	ug/l	99
58) 4-Methyl-2-Pentanone	8.618	43	301824	108.51	ug/l	99
59) 2-Hexanone	9.471	43	234410	110.95	ug/l	99
61) Tetrachloroethene	9.318	164	47052	22.52	ug/l	93
62) Toluene	8.759	91	216046	22.16	ug/l	99
64) Chlorobenzene	10.118	112	131844	21.95	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.200	131	47234	21.37	ug/l	96
66) Ethyl Benzene	10.236	91	242799	22.41	ug/l	99
67) m/p-Xylenes	10.341	106	181653	45.31	ug/l	98
68) o-Xylene	10.683	106	86639	22.54	ug/l	100
69) Styrene	10.694	104	150985	22.62	ug/l	99
70) Isopropylbenzene	11.000	105	230756	22.24	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.247	83	72279	22.29	ug/l	99
72) 1,2,3-Trichloropropane	11.277	75	62434m	21.35	ug/l	
73) Bromobenzene	11.236	156	53805	22.15	ug/l	95
74) n-propylbenzene	11.342	91	268567	22.65	ug/l	99
75) 2-Chlorotoluene	11.406	91	161643	22.88	ug/l	99
76) 1,3,5-Trimethylbenzene	11.489	105	193534	22.75	ug/l	98
77) t-1,4-Dichloro-2-butene	11.059	75	25918	21.23	ug/l	90
78) 4-Chlorotoluene	11.495	91	180801	22.34	ug/l	99
79) tert-butylbenzene	11.753	119	181715	22.07	ug/l	98
80) 1,2,4-Trimethylbenzene	11.789	105	197241	22.77	ug/l	98
81) sec-Butylbenzene	11.930	105	224202	22.75	ug/l	99
82) p-Isopropyltoluene	12.048	119	199959	22.39	ug/l	100
83) 1,3-Dichlorobenzene	12.006	146	101094	22.78	ug/l	98
84) 1,4-Dichlorobenzene	12.083	146	99040	22.76	ug/l	100
85) n-Butylbenzene	12.371	91	180716	22.45	ug/l	98
86) Hexachloroethane	12.577	117	37774	22.59	ug/l	91
87) 1,2-Dichlorobenzene	12.377	146	96654	23.16	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.983	75	15657	21.40	ug/l	98
89) 1,2,4-Trichlorobenzene	13.630	180	60557	21.82	ug/l	99
90) Hexachlorobutadiene	13.765	225	25400	22.38	ug/l	99
91) Naphthalene	13.812	128	214317	22.10	ug/l	99
92) 1,2,3-Trichlorobenzene	14.001	180	64179	23.48	ug/l	98

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

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