

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022521\
 Data File : VX020918.D
 Acq On : 25 Feb 2021 18:04
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 2/26/2021 2:31:13 PM

Quant Time: Feb 25 18:27:50 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022521W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Feb 25 13:26:35 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.970	128	34737	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.823	114	188267	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.094	117	167493	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.023	65	71799	29.35	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.83%		
60) 4-Bromofluorobenzene	11.118	95	81184	29.31	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.70%		
63) Toluene-d8	8.694	98	222114	29.12	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.07%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.187	85	39096	19.99	ug/l	100
3) Chloromethane	1.311	50	42087	20.14	ug/l	99
4) Vinyl Chloride	1.393	62	49499	20.00	ug/l	96
5) Bromomethane	1.622	94	16829	18.07	ug/l	95
6) Chloroethane	1.699	64	31521	20.11	ug/l	97
7) Trichlorofluoromethane	1.905	101	66962	20.95	ug/l	99
8) Diethyl Ether	2.170	74	30702	21.29	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.358	101	41396	20.77	ug/l	99
10) 1,1-Dichloroethene	2.346	96	42342	20.62	ug/l	96
11) Methyl Iodide	2.481	142	53432	20.99	ug/l	94
12) Methyl Acetate	2.746	43	48613	21.41	ug/l	97
13) Acrolein	2.270	56	26226	81.27	ug/l	100
14) Acrylonitrile	3.111	53	119638	105.64	ug/l	100
15) Acetone	2.423	58	33444	98.26	ug/l	95
16) Carbon Disulfide	2.546	76	117655	20.29	ug/l	98
17) Allyl chloride	2.699	41	66037	20.39	ug/l	98
18) Methylene Chloride	2.829	84	50089	21.59	ug/l	93
19) trans-1,2-Dichloroethene	3.134	96	47621	20.91	ug/l	98
20) Diisopropyl ether	3.823	45	137805	20.99	ug/l	97
21) 1,1-Dichloroethane	3.664	63	81828	21.01	ug/l	99
22) cis-1,2-Dichloroethene	4.558	96	55186	21.19	ug/l	96
23) tert-Butyl Alcohol	3.023	59	53432	103.93	ug/l #	100
24) Methyl tert-Butyl Ether	3.170	73	154496	21.46	ug/l	99
25) Chloroform	5.170	83	84919	21.30	ug/l	98
26) Cyclohexane	5.541	56	72035	20.43	ug/l #	98
29) 1,1-Dichloropropene	5.764	75	63036	21.36	ug/l	99
30) 2-Butanone	4.635	43	153060	104.93	ug/l	98
31) 2,2-Dichloropropane	4.546	77	72670	21.35	ug/l	99
32) 1,1,1-Trichloroethane	5.458	97	71739	21.64	ug/l	100
33) Carbon Tetrachloride	5.747	117	61745	21.49	ug/l	99
34) Benzene	6.105	78	193255	21.80	ug/l	98
35) Methacrylonitrile	4.999	41	33243	21.23	ug/l	99
36) 1,2-Dichloroethane	6.158	62	66502	22.32	ug/l	99
37) Trichloroethene	7.182	130	52340	21.82	ug/l	99
38) Methylcyclohexane	7.435	83	80472	21.45	ug/l	97
39) 1,2-Dichloropropane	7.482	63	48032	21.90	ug/l	98
40) Dibromomethane	7.629	93	32800	21.74	ug/l	97
41) Bromodichloromethane	7.870	83	68534	21.75	ug/l	98
42) Vinyl Acetate	3.782	43	593082	109.16	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.788	43	61296	22.11	ug/l	99
44) Isopropyl Acetate	6.405	43	102015	21.71	ug/l	100
45) 1,4-Dioxane	7.711	88	24199	447.08	ug/l	98
46) Methyl methacrylate	7.741	41	50445	21.61	ug/l	94
47) n-amyl Acetate	10.882	43	82169	21.25	ug/l	98
48) t-1,3-Dichloropropene	9.018	75	75254	21.41	ug/l	100
49) cis-1,3-Dichloropropene	8.412	75	82574	21.53	ug/l	97
50) 1,1,2-Trichloroethane	9.194	97	48965	22.09	ug/l	97
51) Ethyl methacrylate	9.159	69	74764	21.57	ug/l	97
52) 1,3-Dichloropropane	9.347	76	83012	22.15	ug/l	98
53) Dibromochloromethane	9.559	129	51948	22.13	ug/l	99
54) 1,2-Dibromoethane	9.653	107	52251	22.71	ug/l	99
55) 2-Chloroethyl vinyl ether	8.288	63	168073	102.64	ug/l	99
56) Bromoform	10.835	173	35460	21.41	ug/l	98
58) 4-Methyl-2-Pentanone	8.617	43	294422	107.37	ug/l	100
59) 2-Hexanone	9.471	43	218274	104.60	ug/l	100
61) Tetrachloroethene	9.318	164	43462	21.05	ug/l	91
62) Toluene	8.759	91	205595	21.37	ug/l	100
64) Chlorobenzene	10.118	112	120886	20.46	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.200	131	45321	20.99	ug/l	95
66) Ethyl Benzene	10.235	91	222394	20.75	ug/l	98
67) m/p-Xylenes	10.341	106	165213	41.48	ug/l	98
68) o-Xylene	10.682	106	82069	21.65	ug/l	98
69) Styrene	10.694	104	140944	21.31	ug/l	99
70) Isopropylbenzene	11.000	105	212713	20.83	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.253	83	70170	21.95	ug/l	99
72) 1,2,3-Trichloropropane	11.277	75	59521m	20.63	ug/l	
73) Bromobenzene	11.235	156	51402	21.53	ug/l	97
74) n-propylbenzene	11.341	91	249818	21.35	ug/l	99
75) 2-Chlorotoluene	11.406	91	148699	21.30	ug/l	100
76) 1,3,5-Trimethylbenzene	11.488	105	181897	21.61	ug/l	98
77) t-1,4-Dichloro-2-butene	11.059	75	24323	20.20	ug/l	94
78) 4-Chlorotoluene	11.494	91	168703	21.18	ug/l	98
79) tert-butylbenzene	11.753	119	169937	21.08	ug/l	99
80) 1,2,4-Trimethylbenzene	11.788	105	180911	21.16	ug/l	99
81) sec-Butylbenzene	11.930	105	209825	21.52	ug/l	99
82) p-Isopropyltoluene	12.047	119	183959	20.85	ug/l	99
83) 1,3-Dichlorobenzene	12.006	146	93109	21.24	ug/l	99
84) 1,4-Dichlorobenzene	12.083	146	90679	21.11	ug/l	99
85) n-Butylbenzene	12.371	91	167272	20.99	ug/l	99
86) Hexachloroethane	12.577	117	33741	20.27	ug/l	84
87) 1,2-Dichlorobenzene	12.377	146	92087	22.26	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.983	75	15358	21.29	ug/l	99
89) 1,2,4-Trichlorobenzene	13.630	180	60060	22.05	ug/l	97
90) Hexachlorobutadiene	13.765	225	22590	20.26	ug/l	96
91) Naphthalene	13.812	128	203182	21.28	ug/l	100
92) 1,2,3-Trichlorobenzene	14.001	180	54437	19.92	ug/l	96

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

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