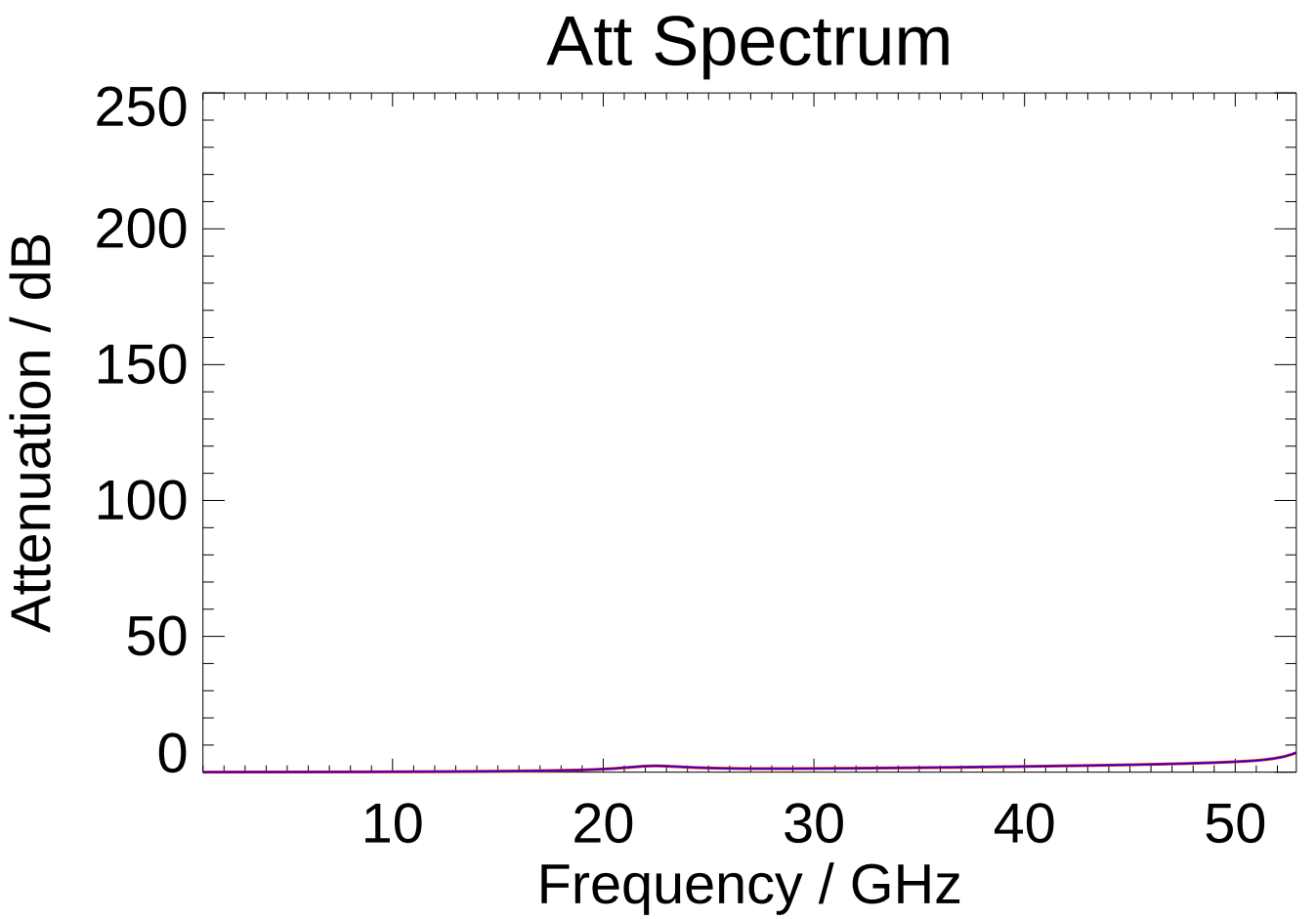
Att Spectrum
Attenuation / dB
250
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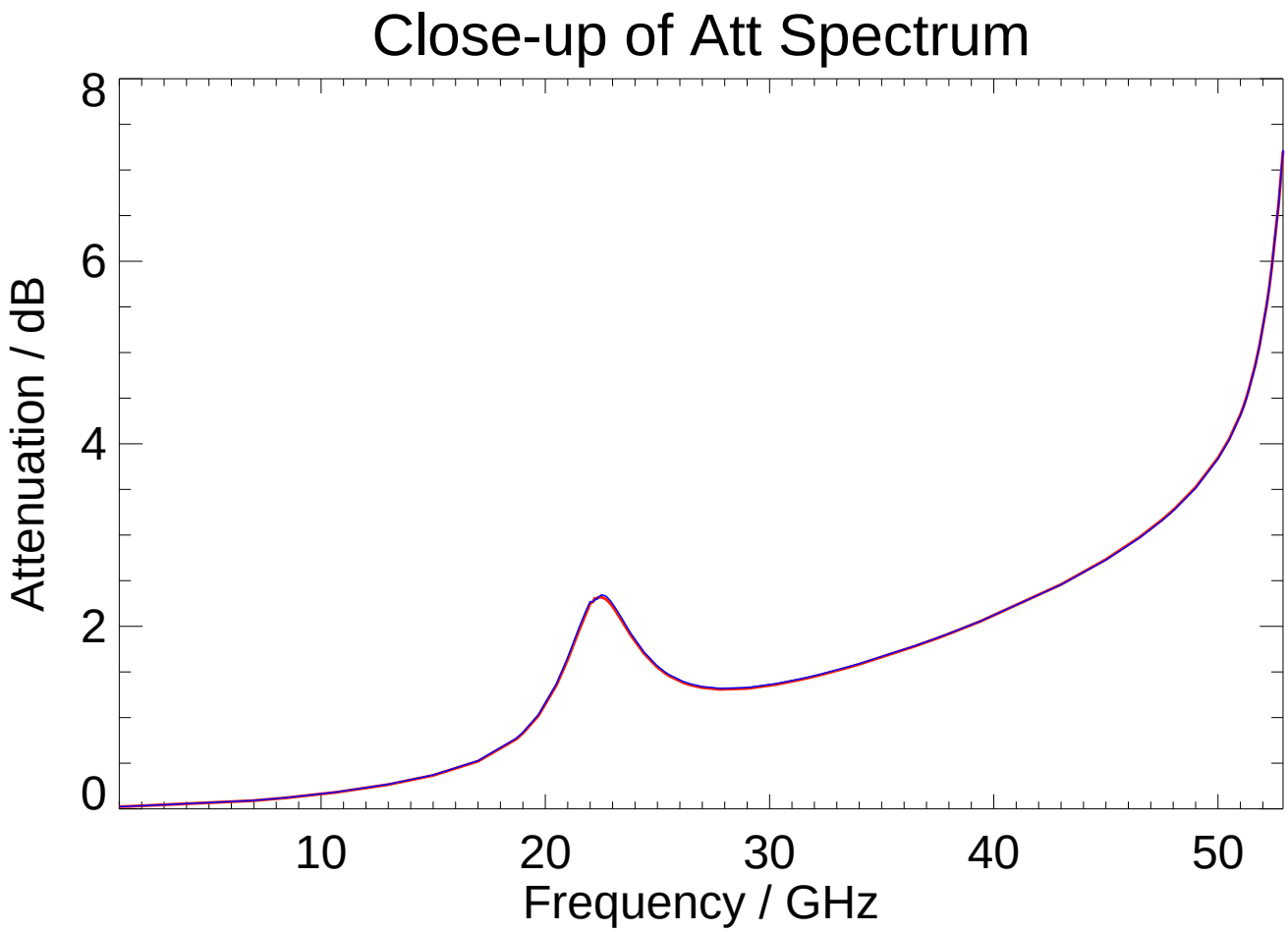
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
6
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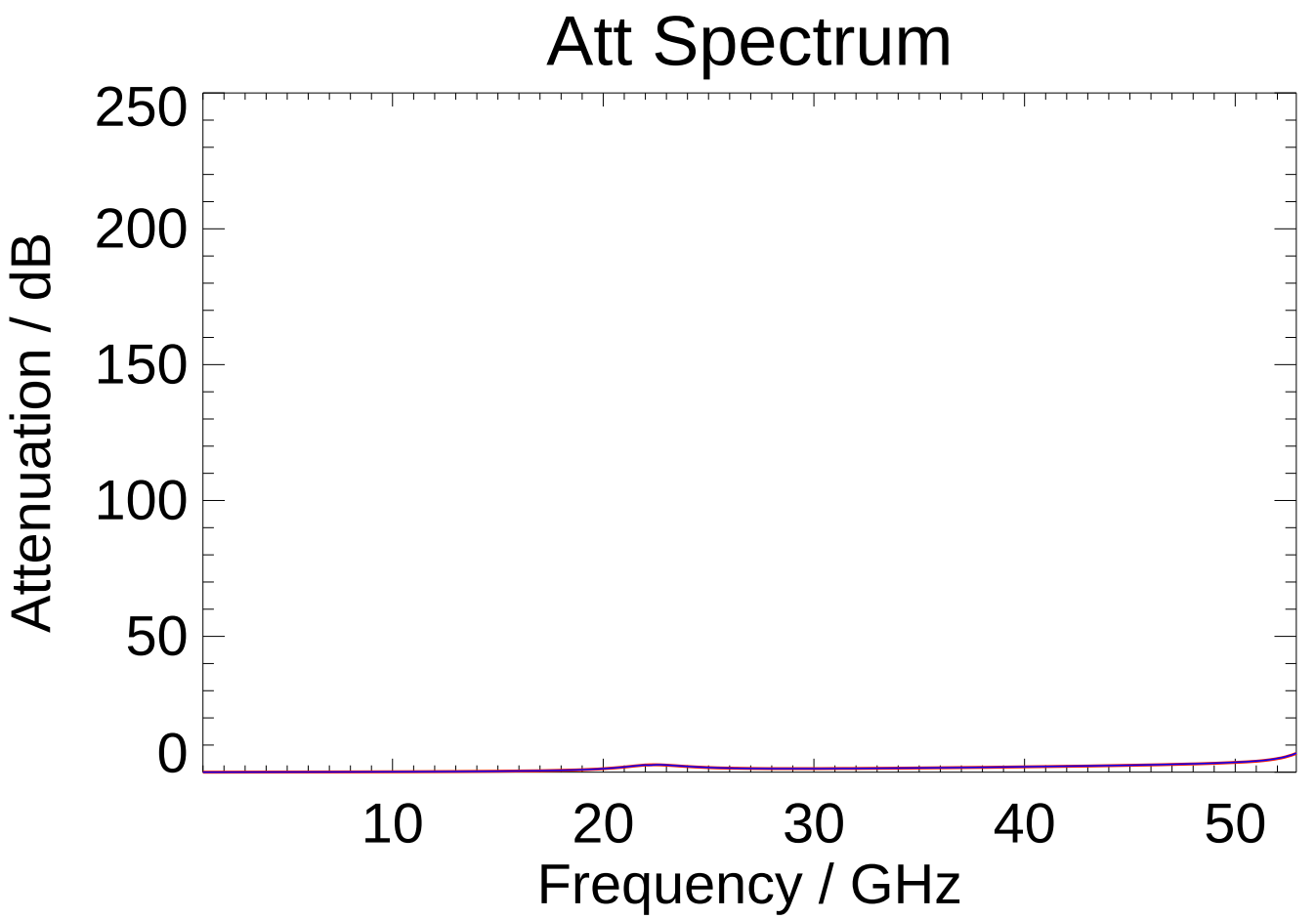
Frequency / GHz


Att Spectrum
Attenuation / dB
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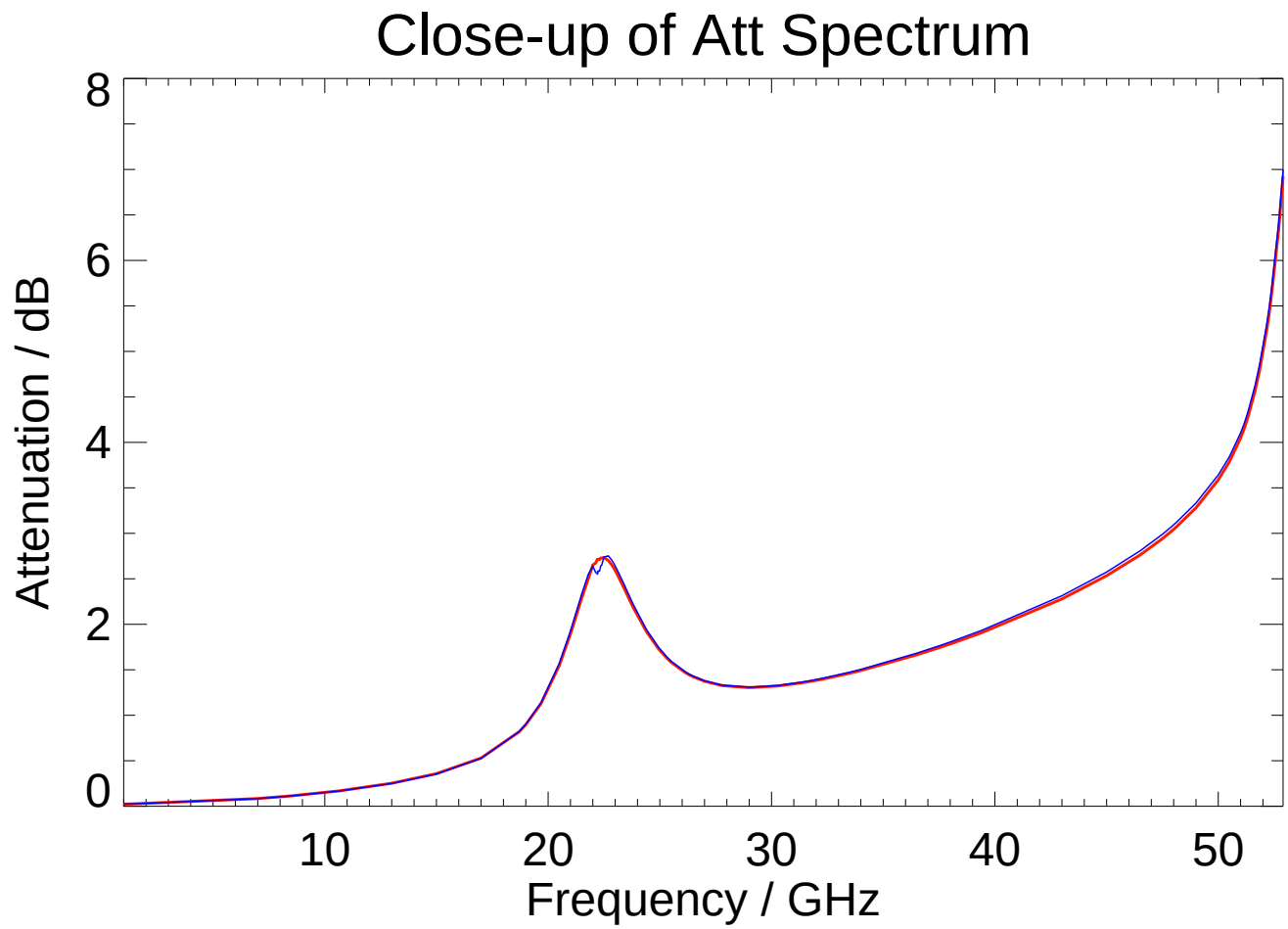
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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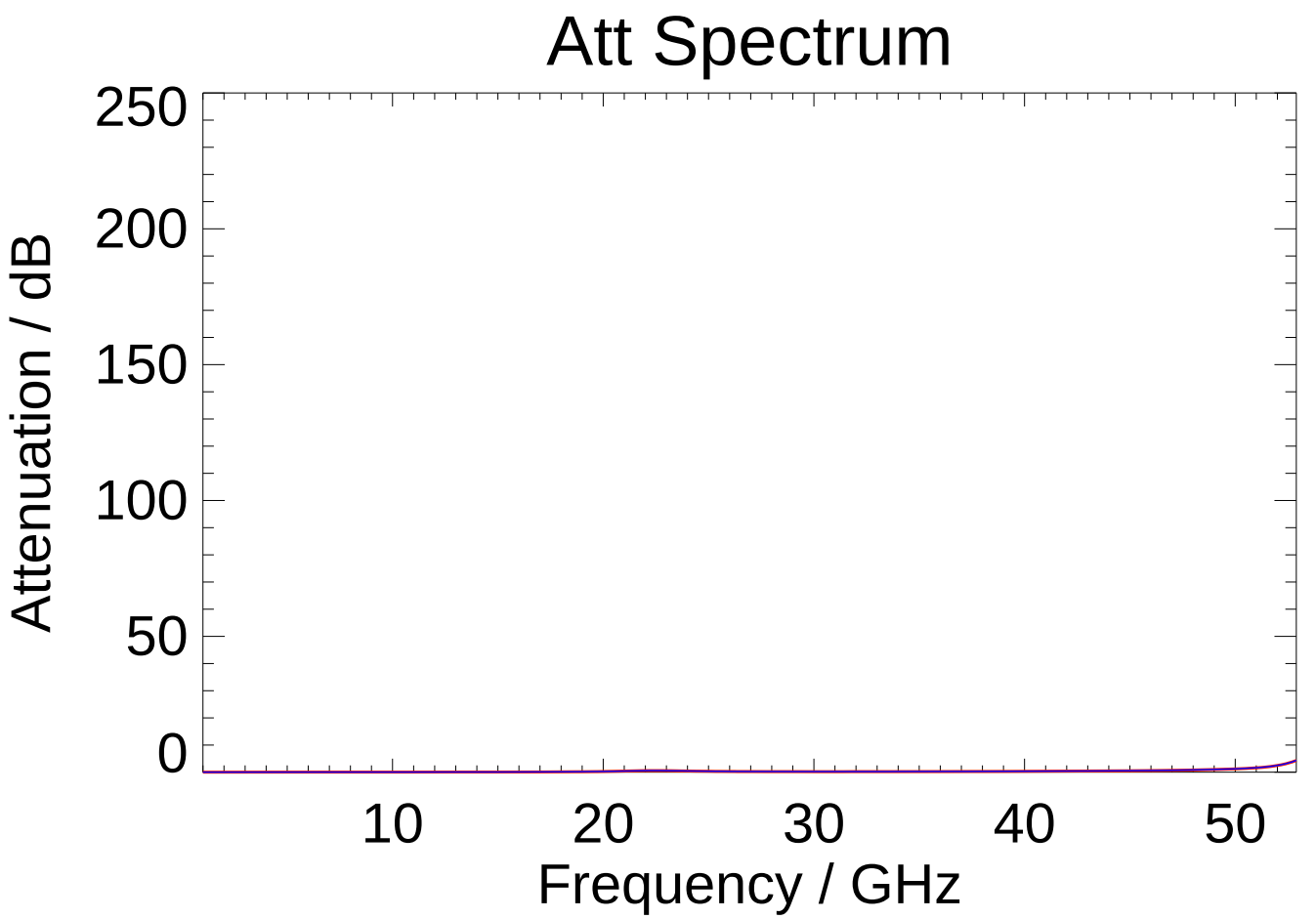
Frequency / GHz


Att Spectrum
Attenuation / dB
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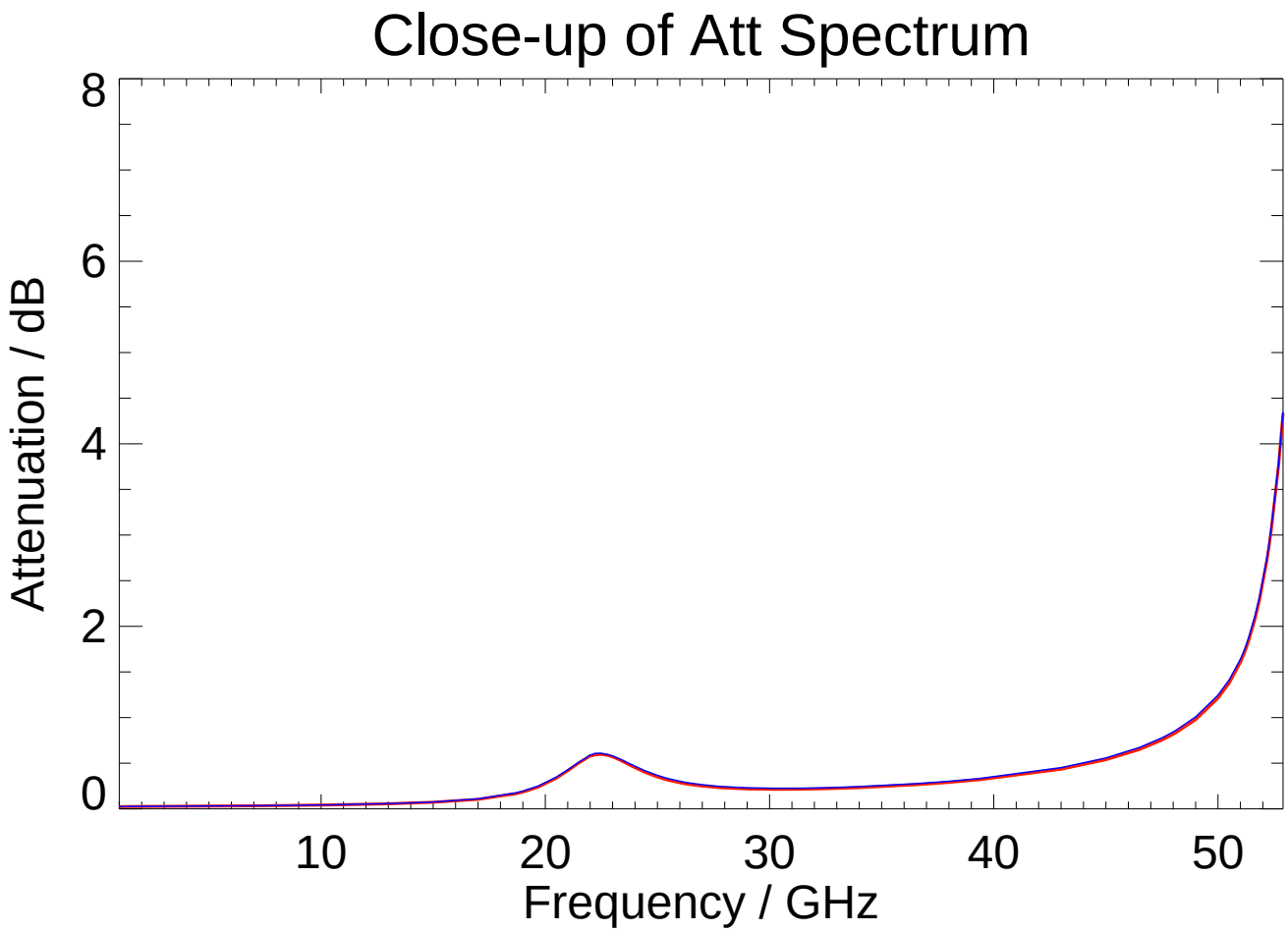
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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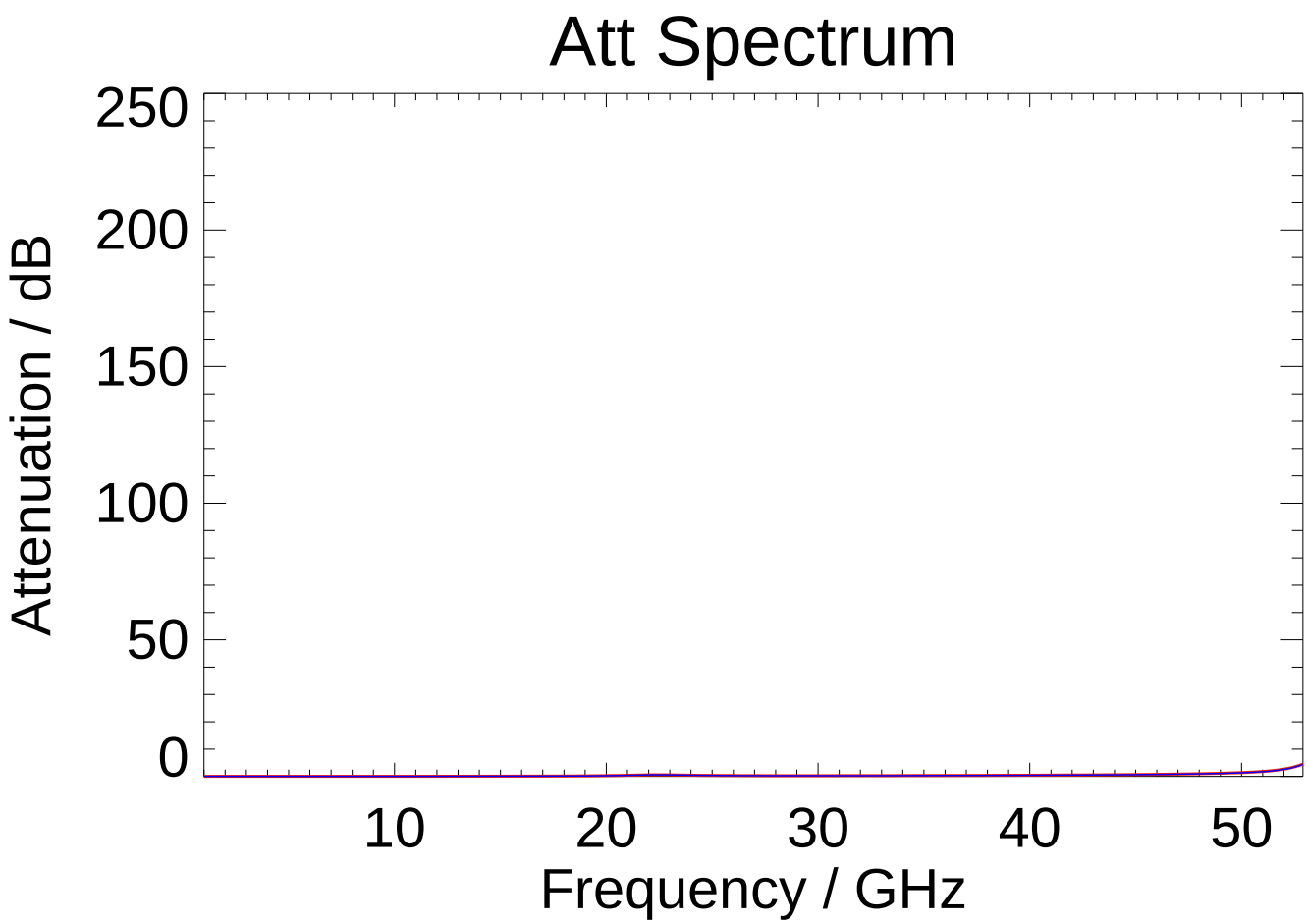
Frequency / GHz


Att Spectrum
Attenuation / dB
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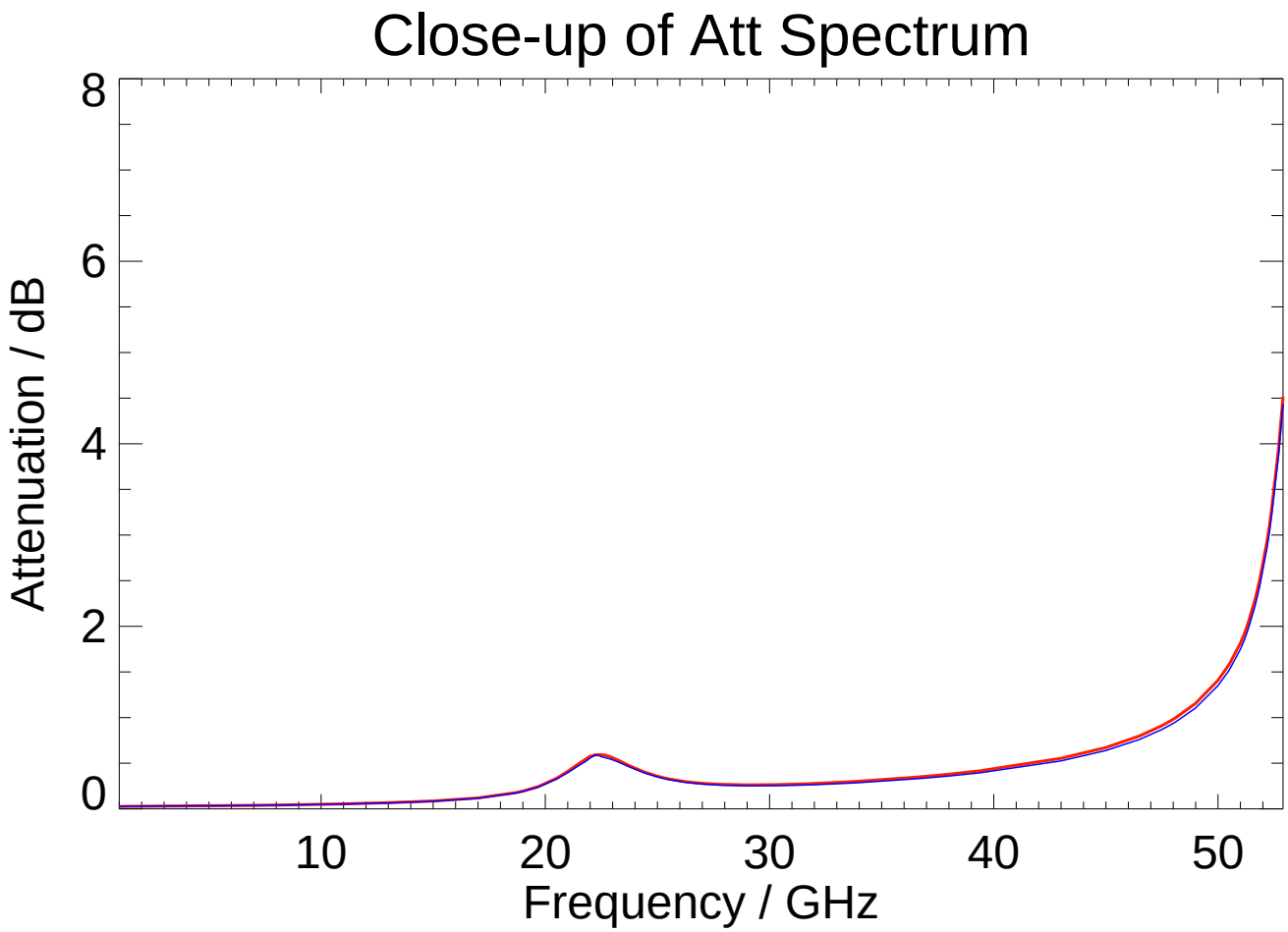
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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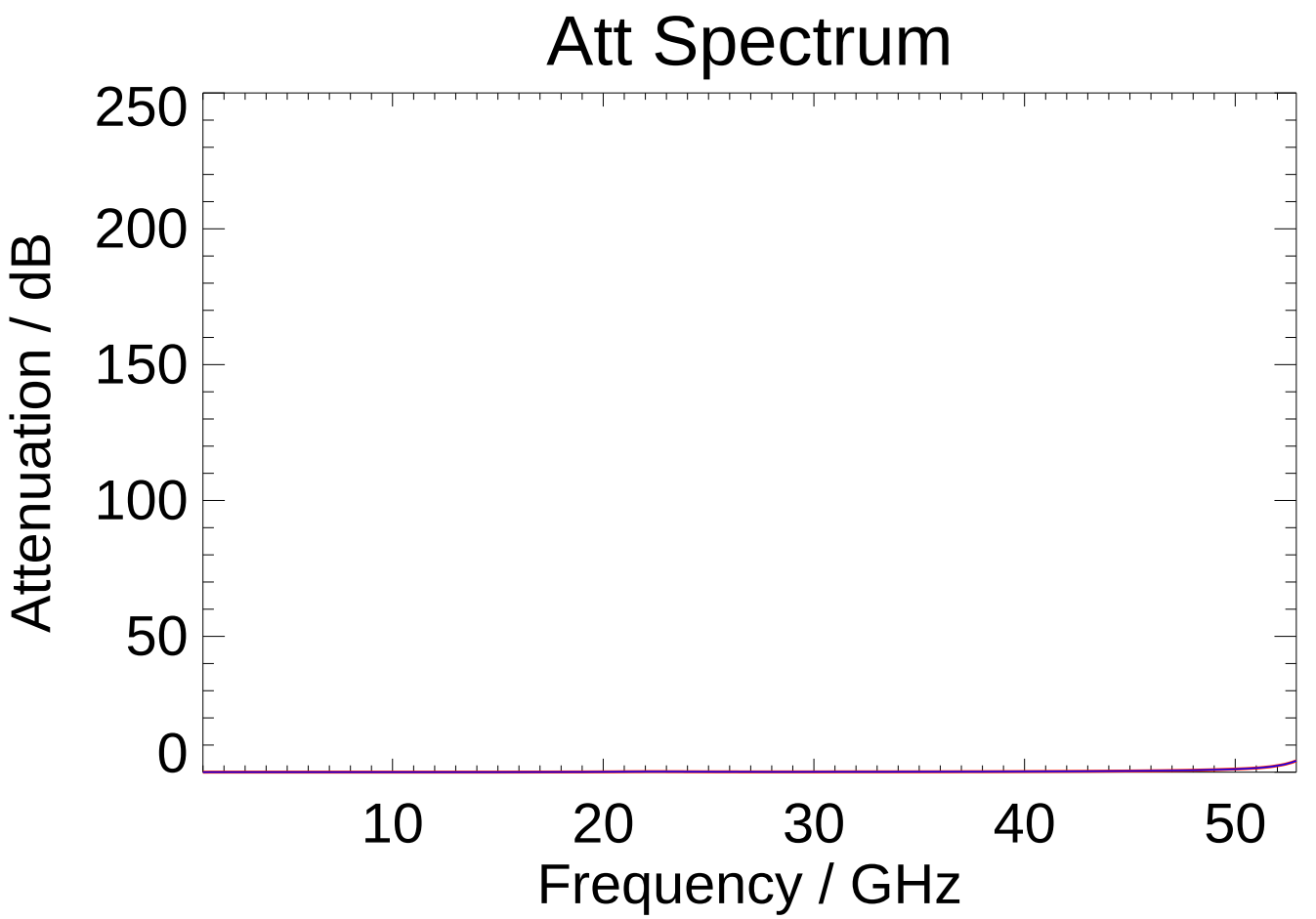
Frequency / GHz


Att Spectrum
Attenuation / dB
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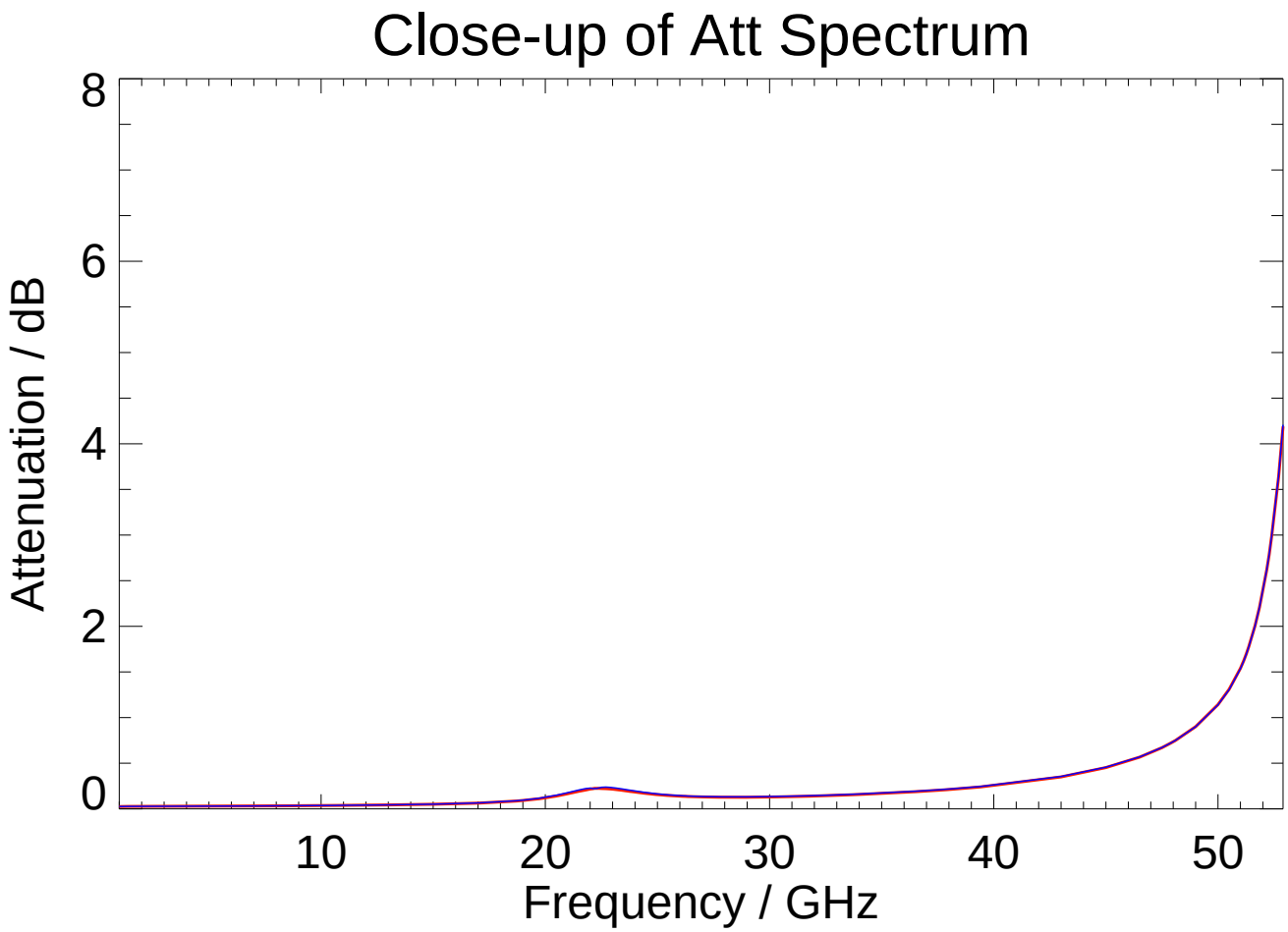
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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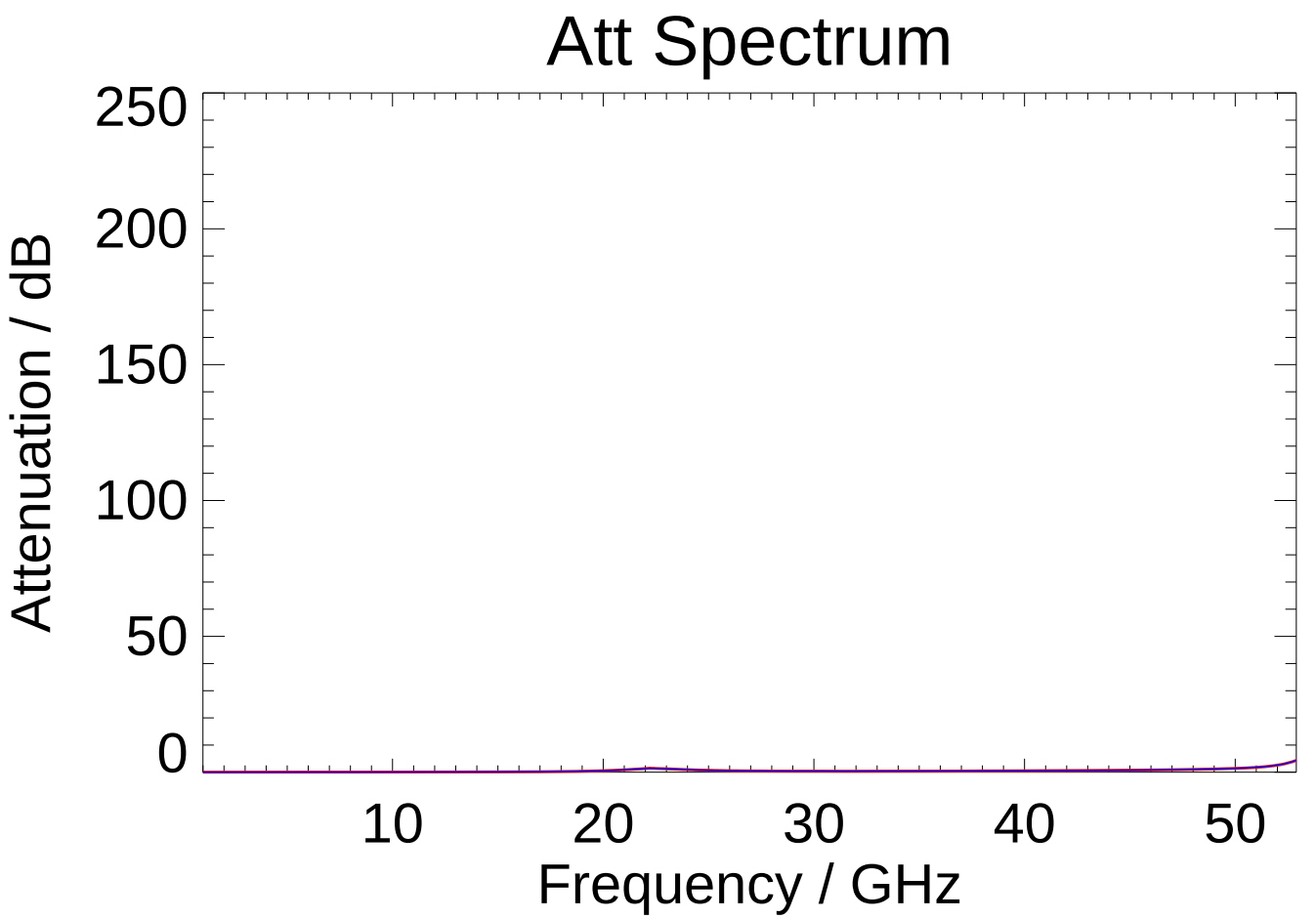
Frequency / GHz


Att Spectrum
Attenuation / dB
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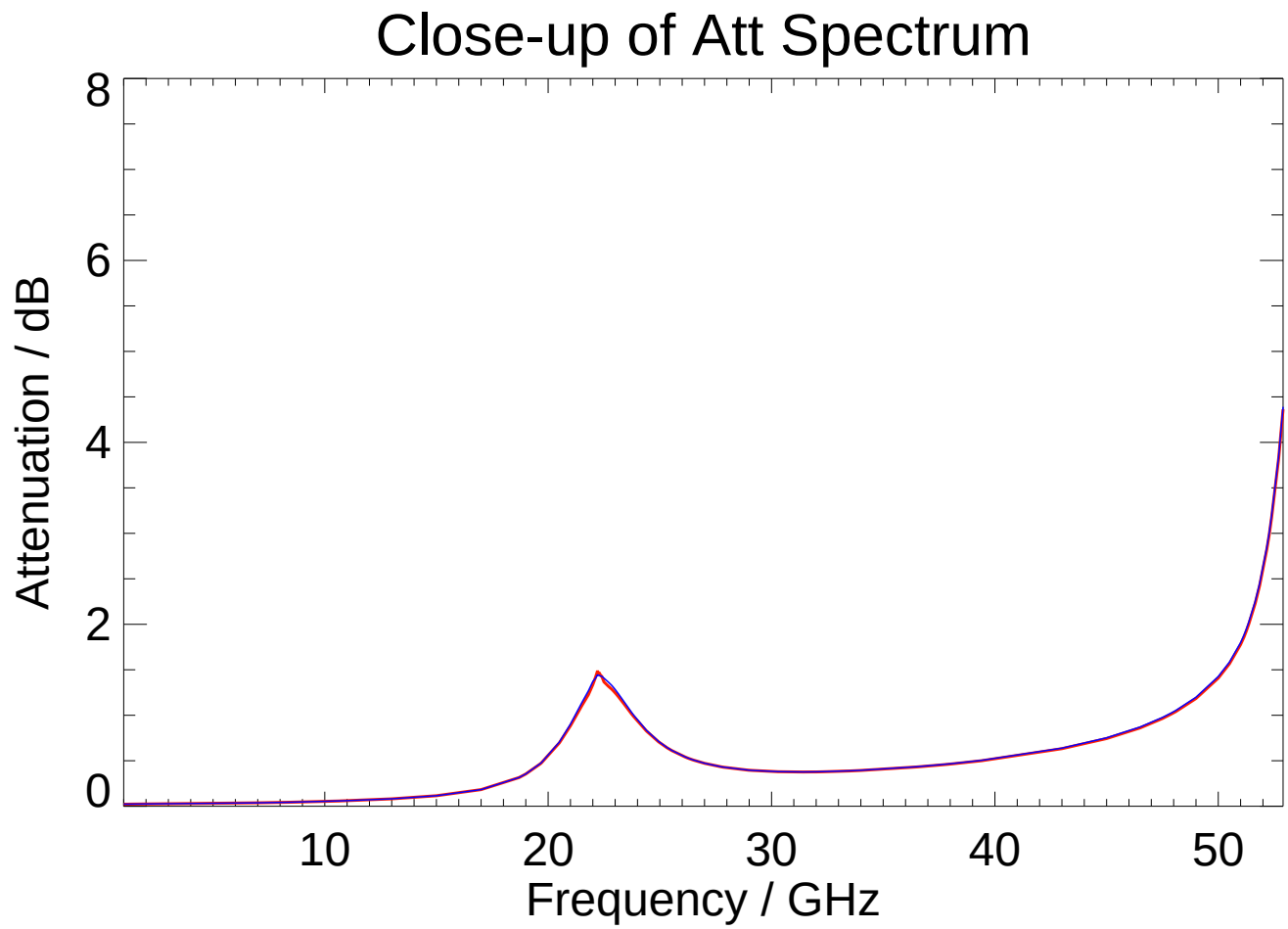
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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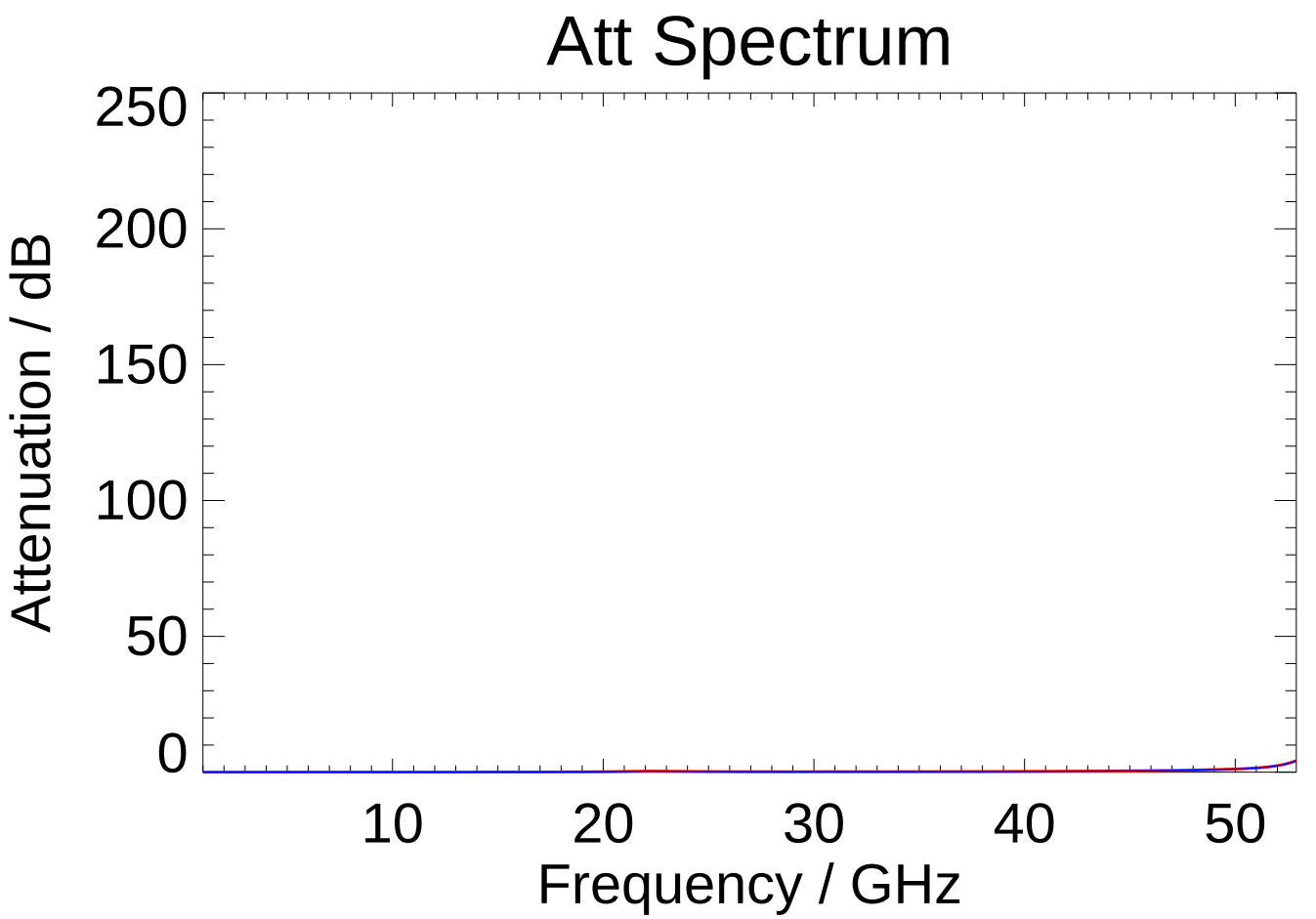
Frequency / GHz


Att Spectrum
Attenuation / dB
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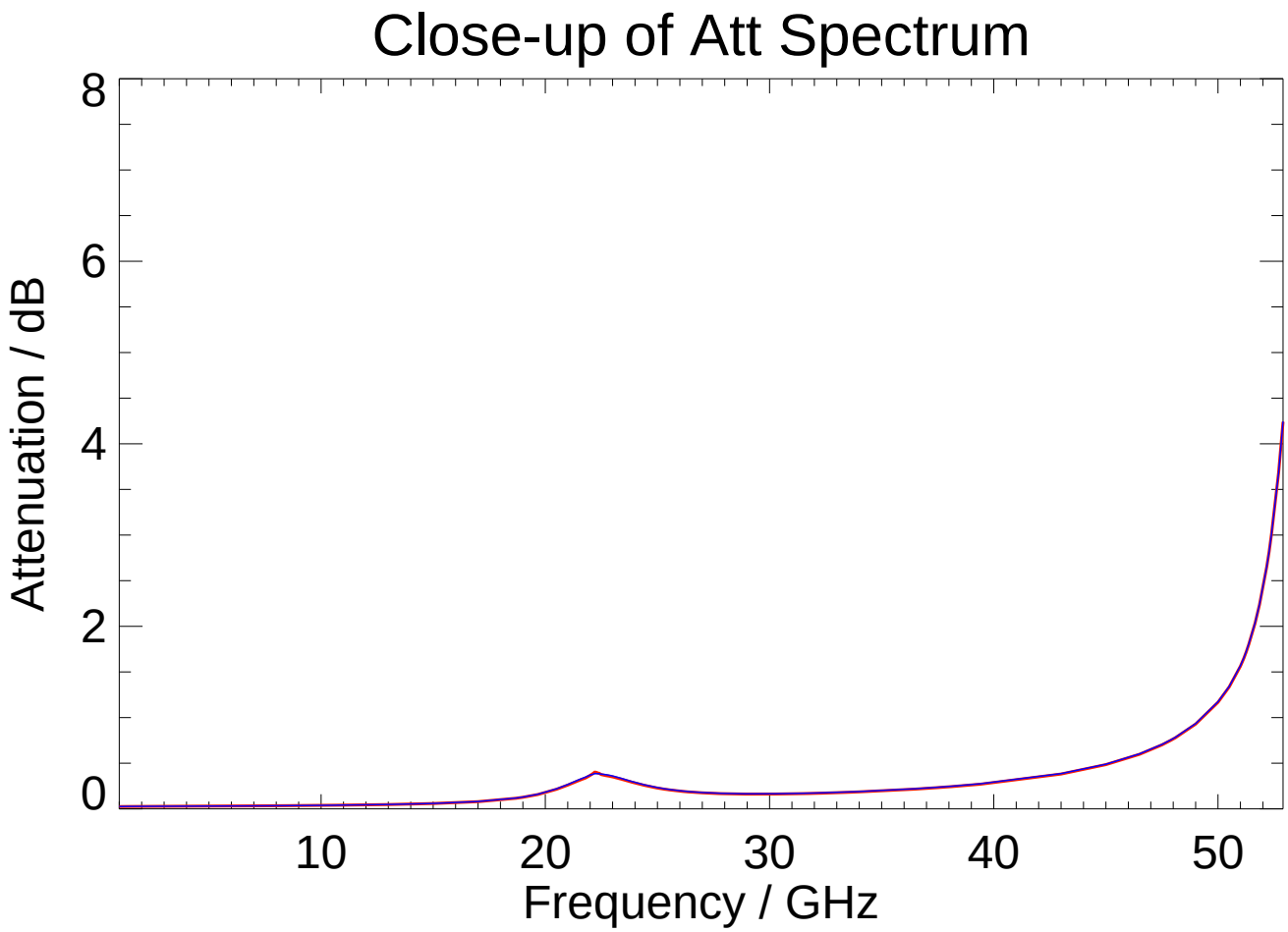
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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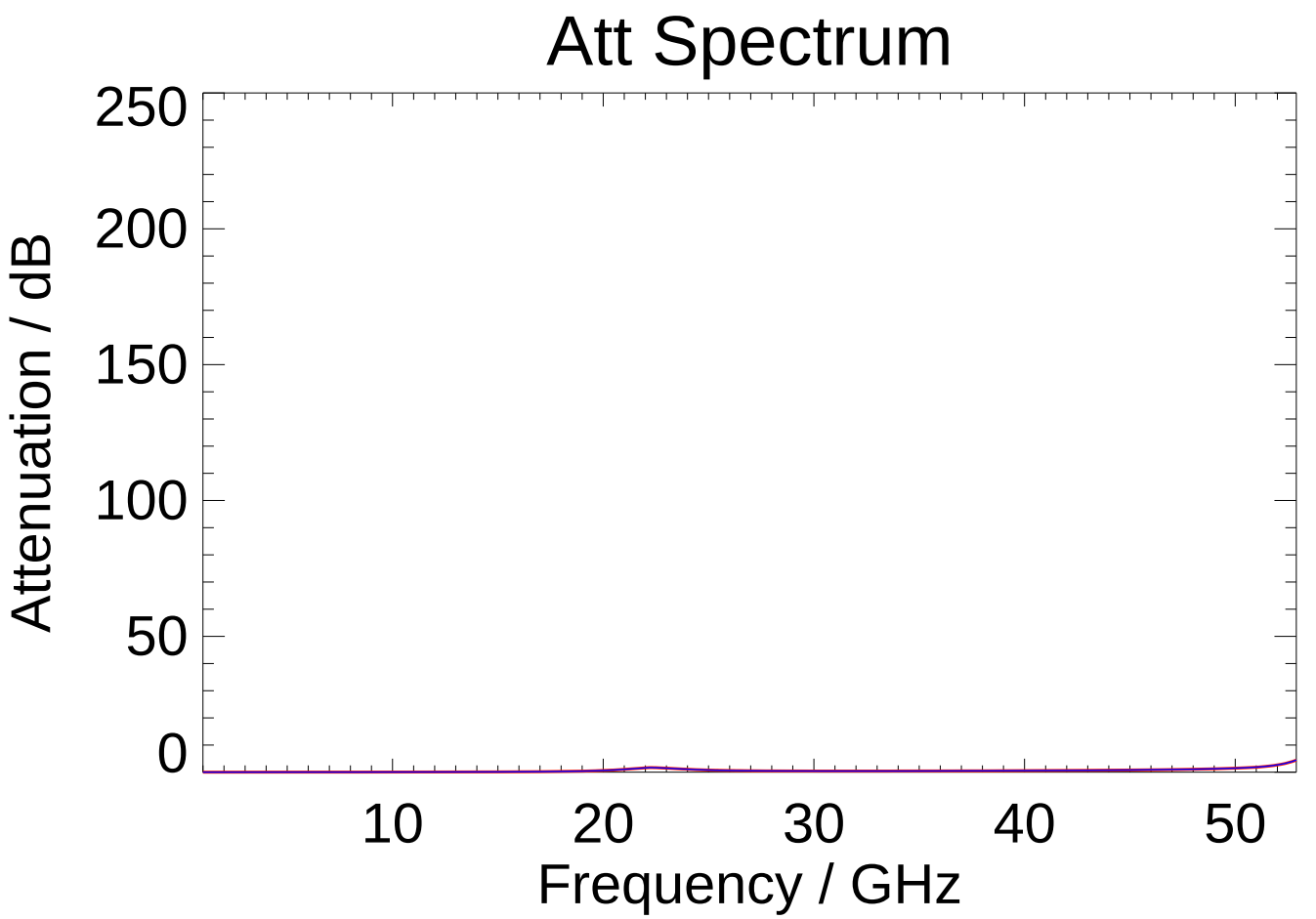
Frequency / GHz


Att Spectrum
Attenuation / dB
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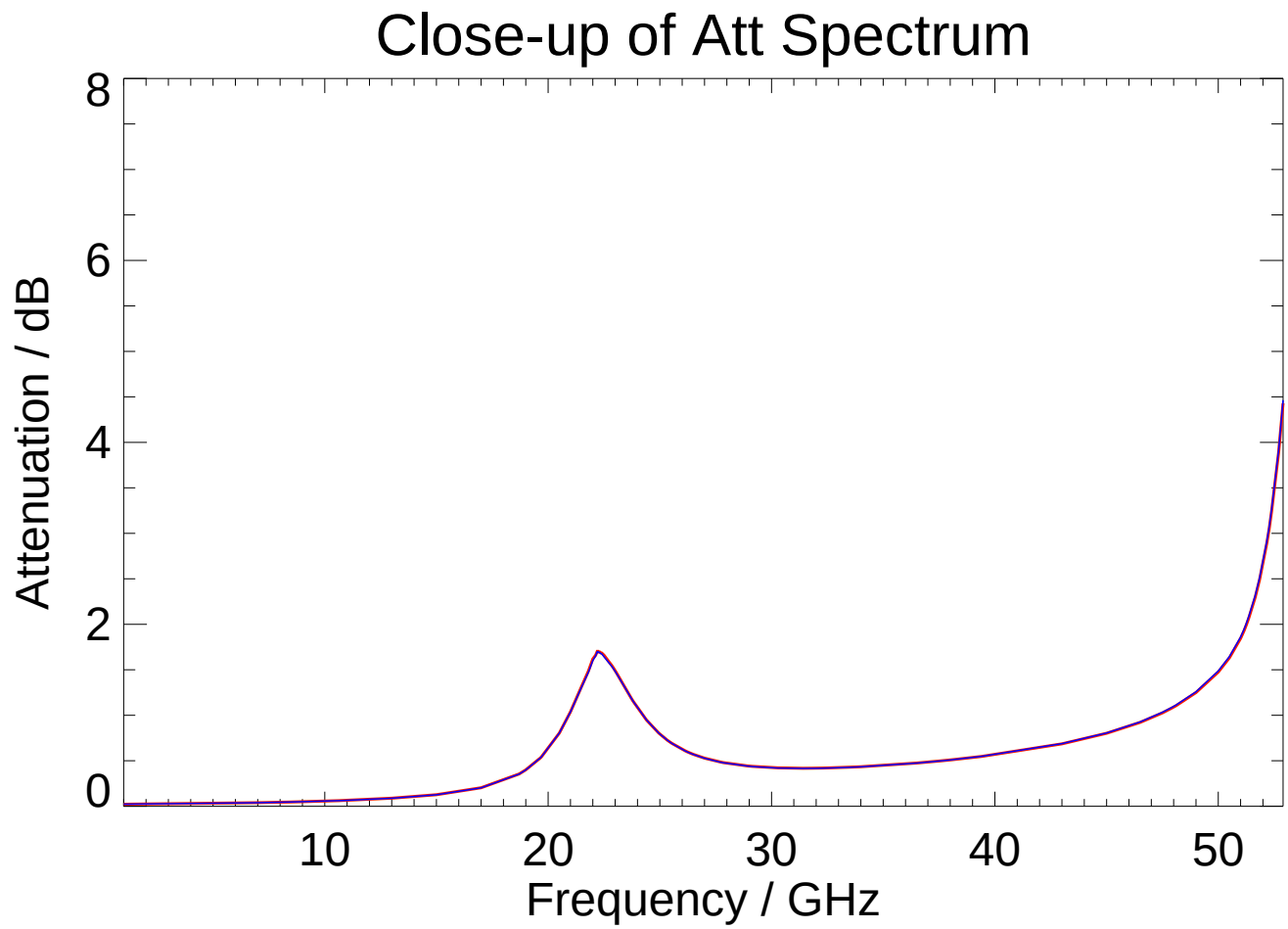
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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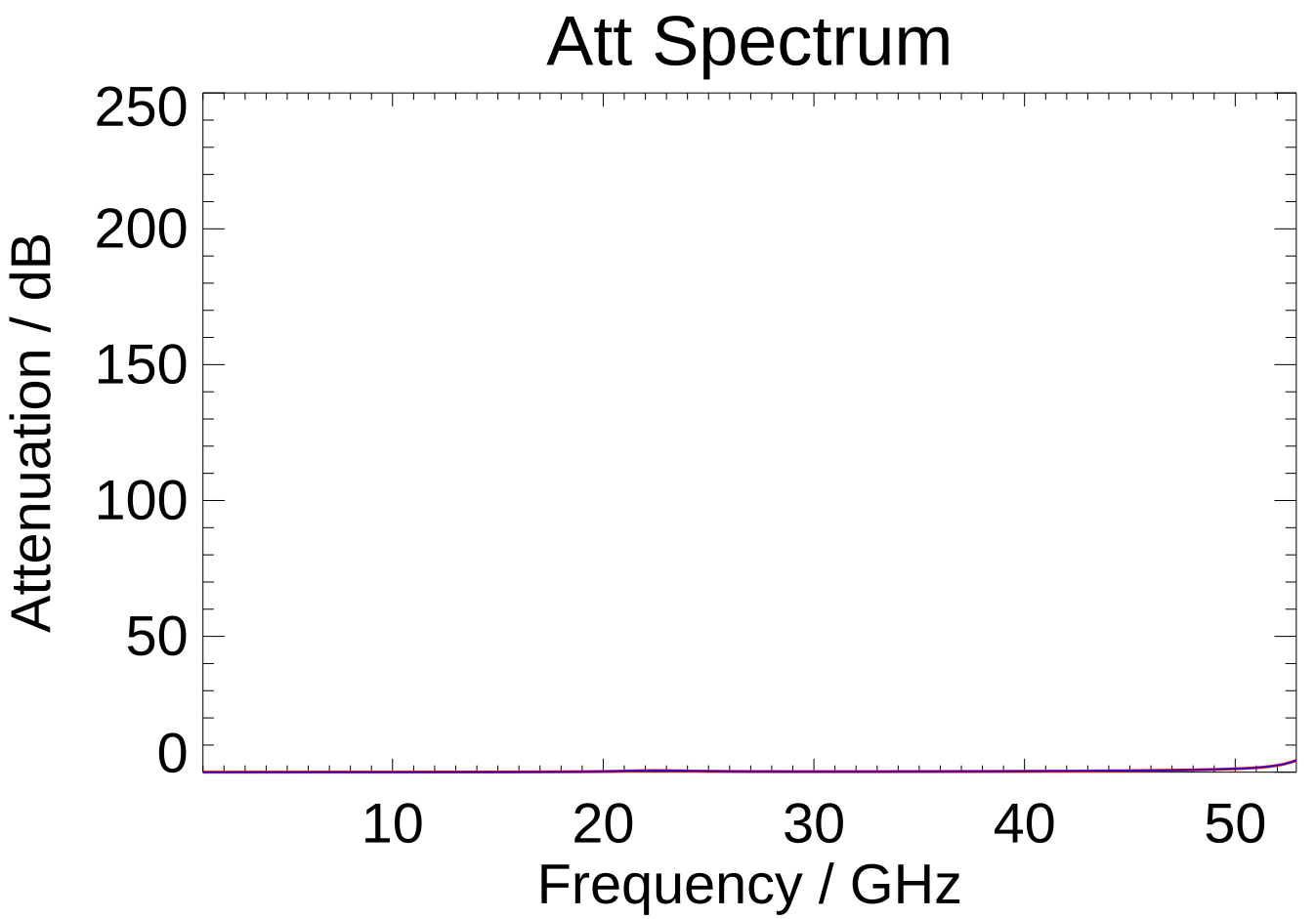
Frequency / GHz


Att Spectrum
Attenuation / dB
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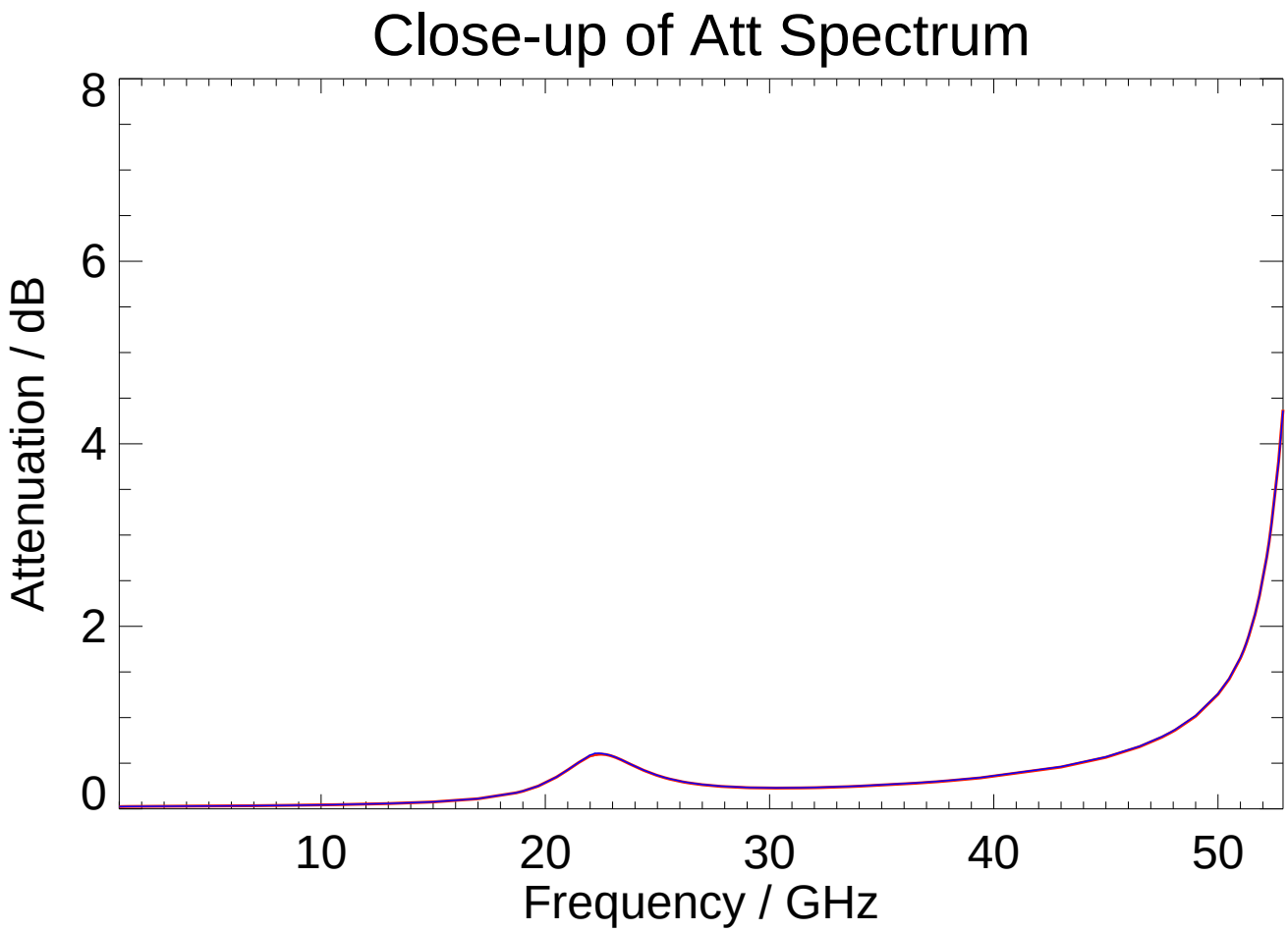
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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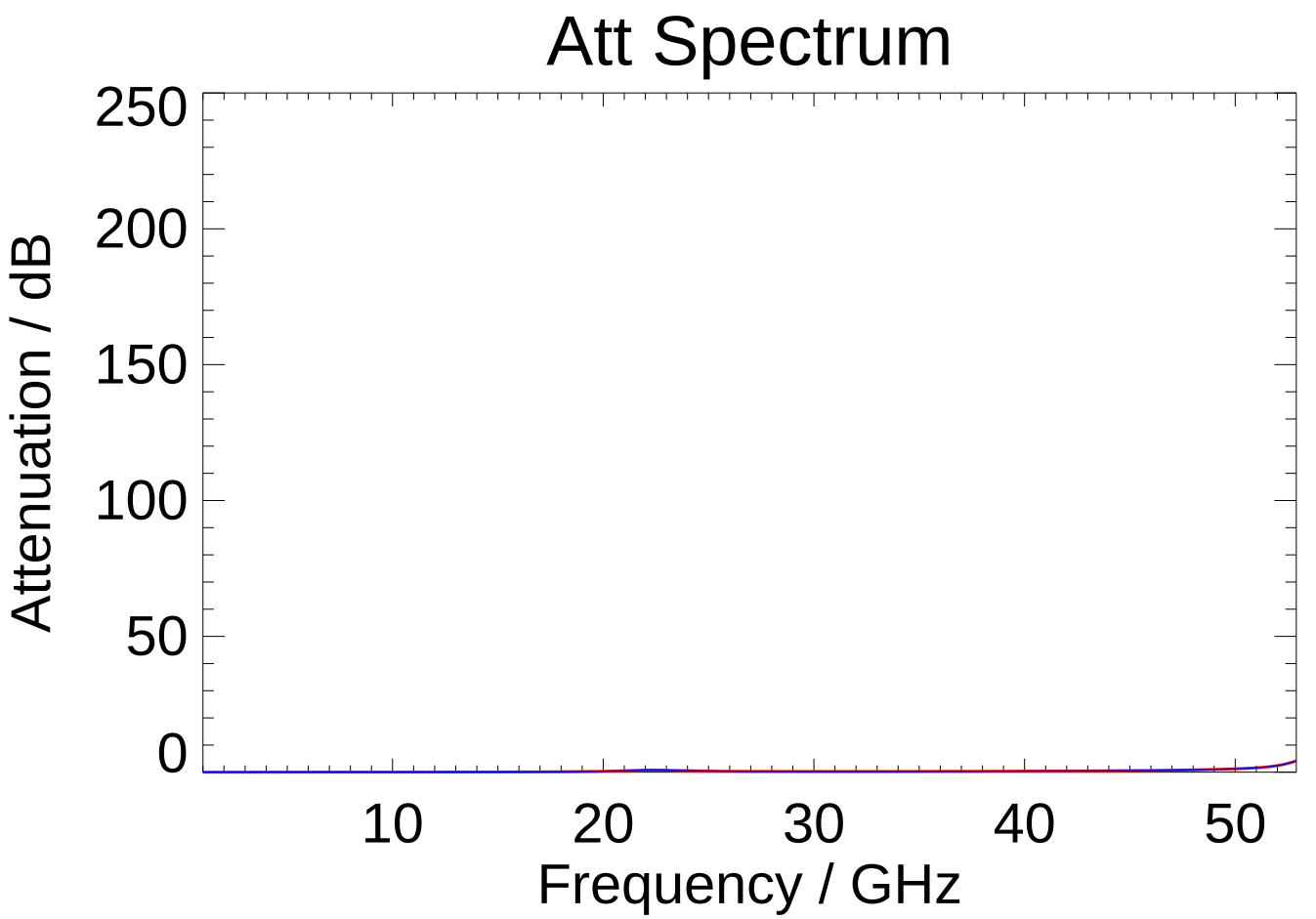
Frequency / GHz


Att Spectrum
Attenuation / dB
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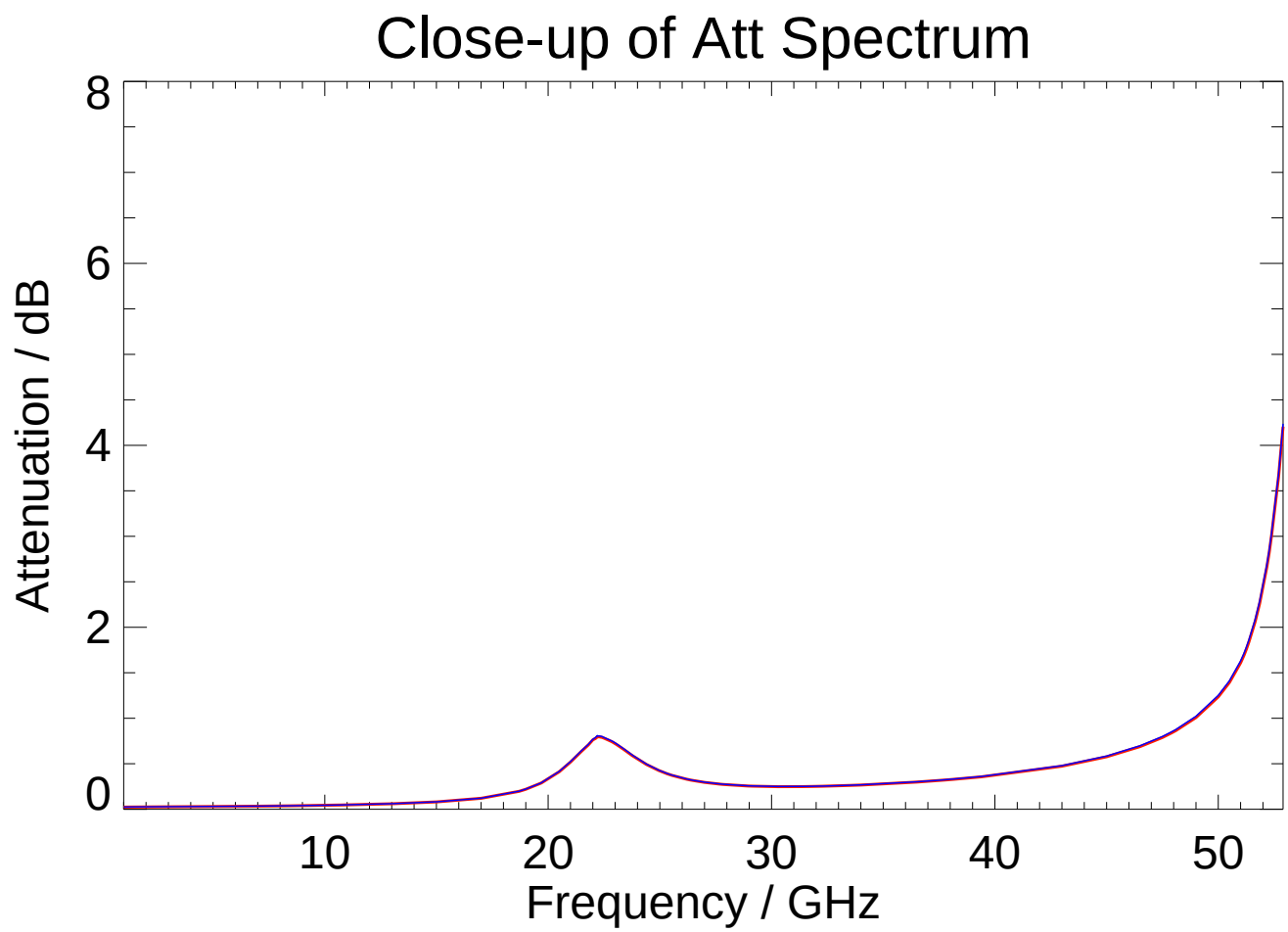
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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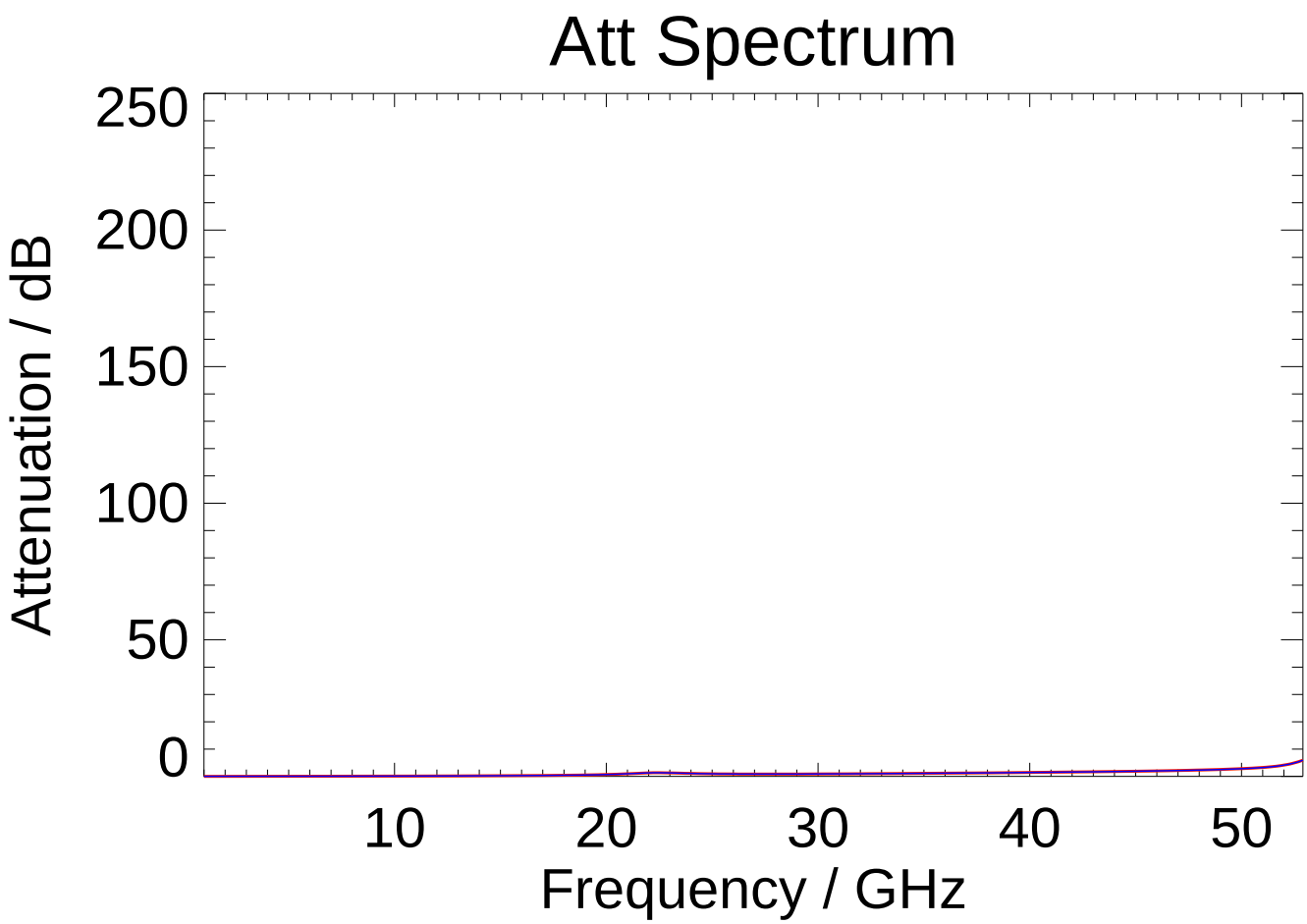
Frequency / GHz


Att Spectrum
Attenuation / dB
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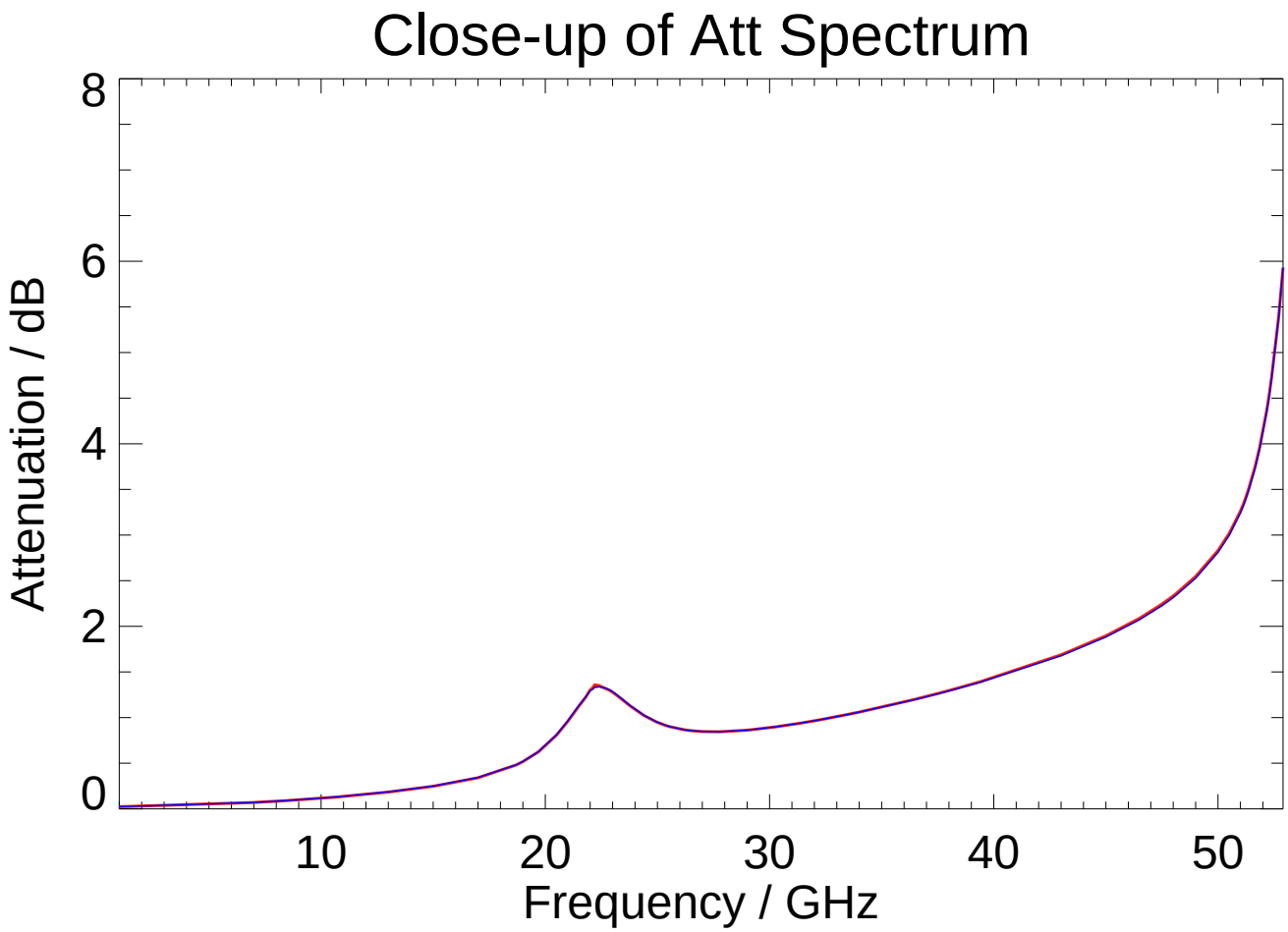
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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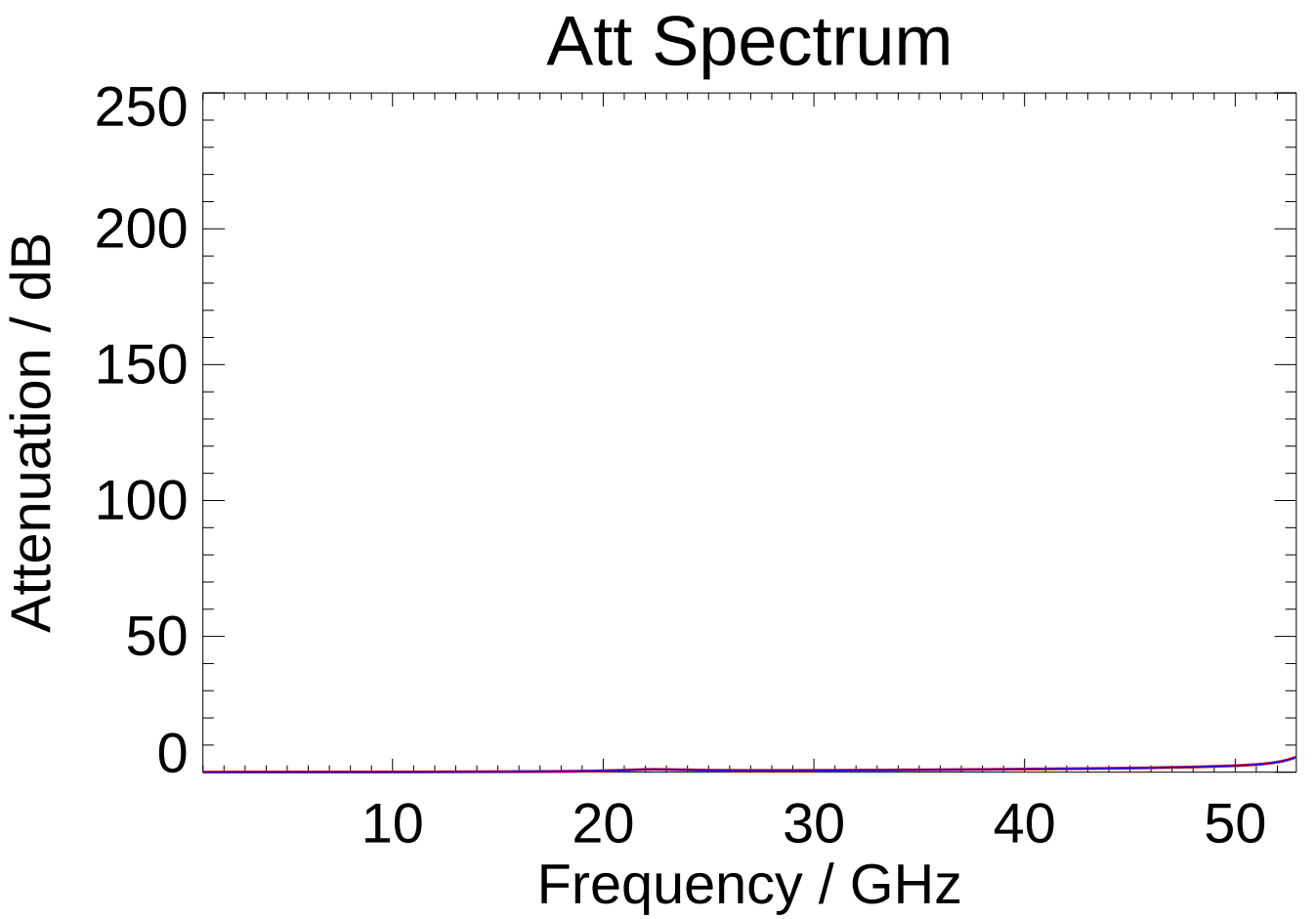
Frequency / GHz


Att Spectrum
Attenuation / dB
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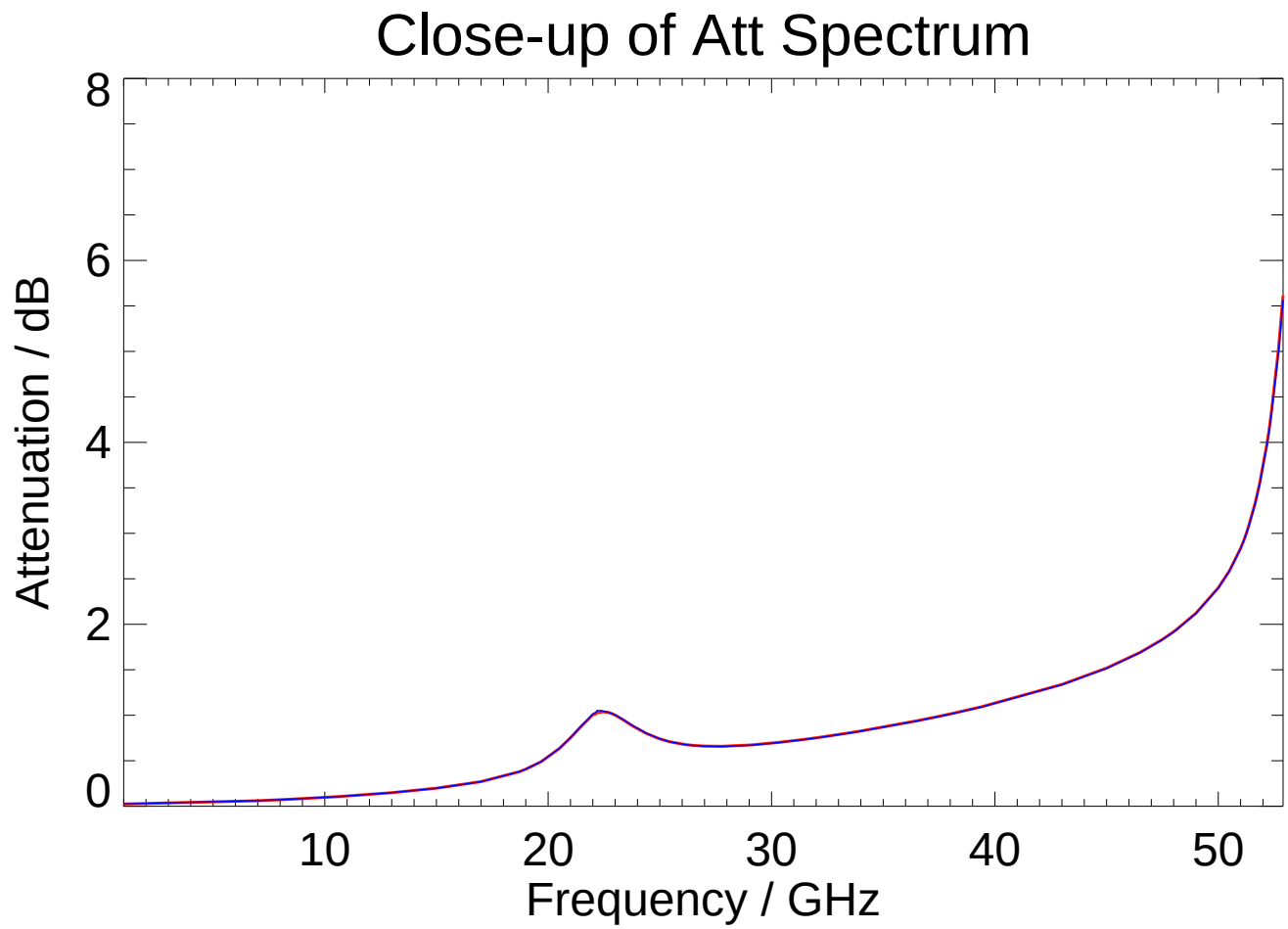
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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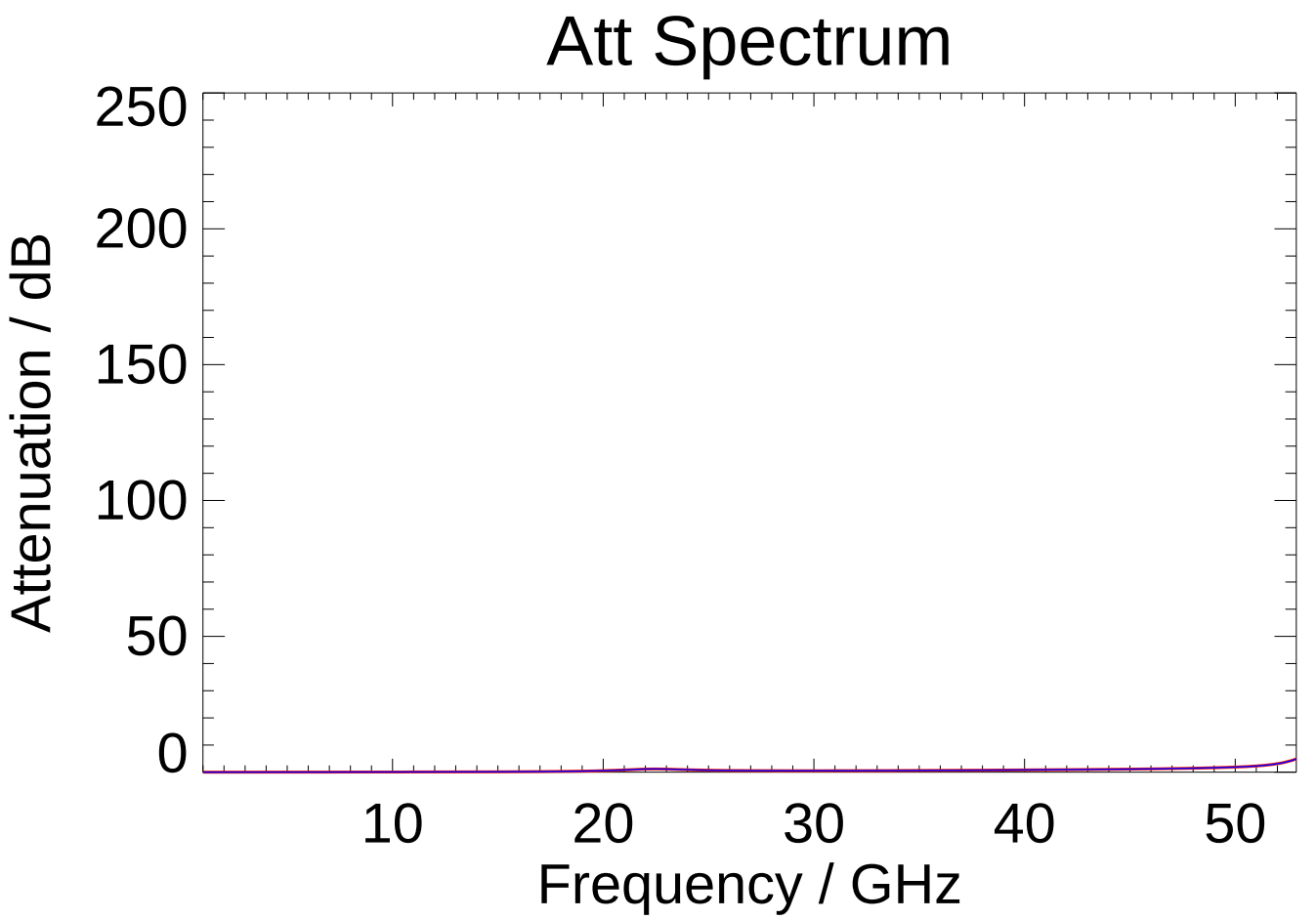
Frequency / GHz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Attenuation / dB
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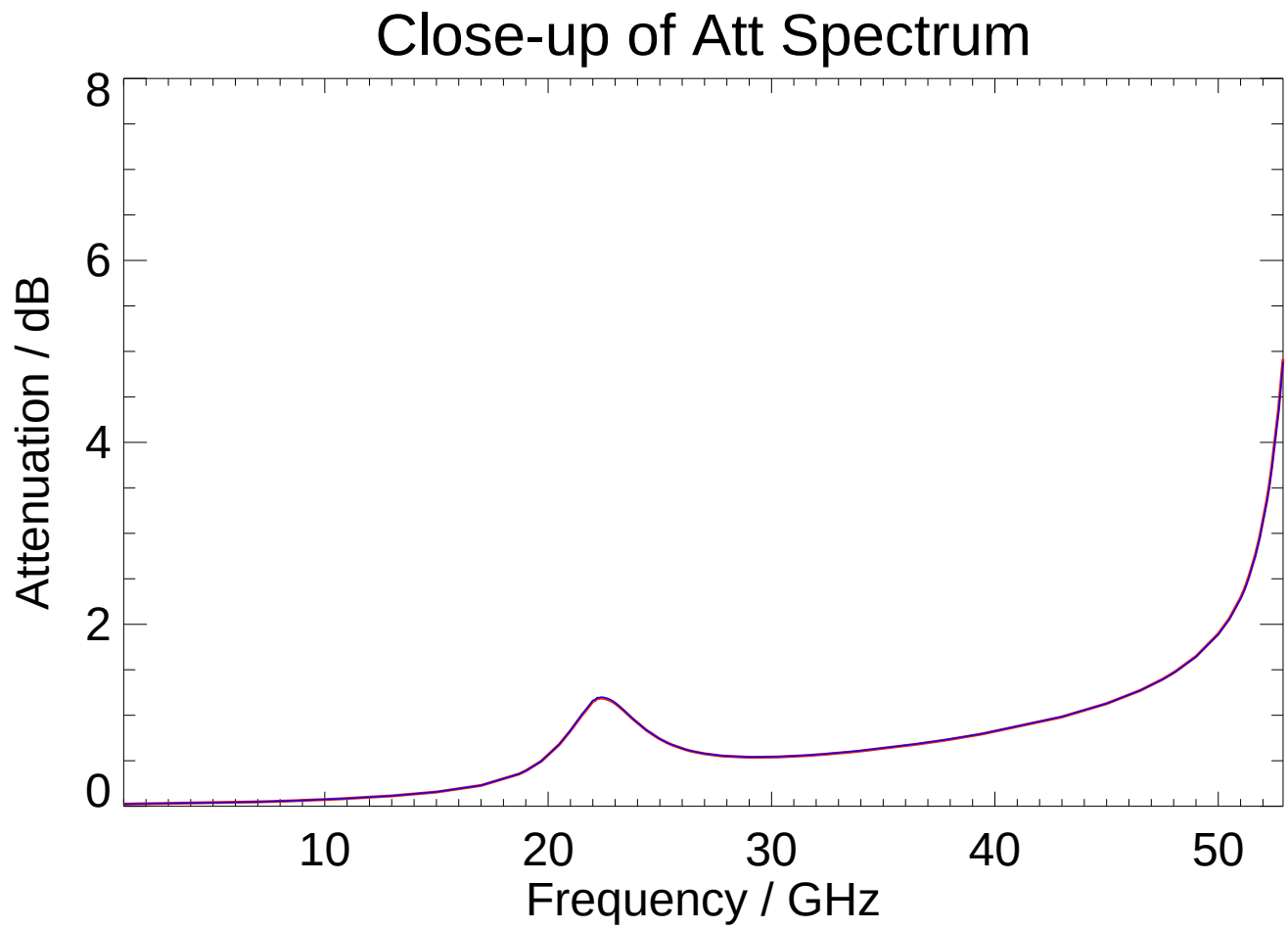
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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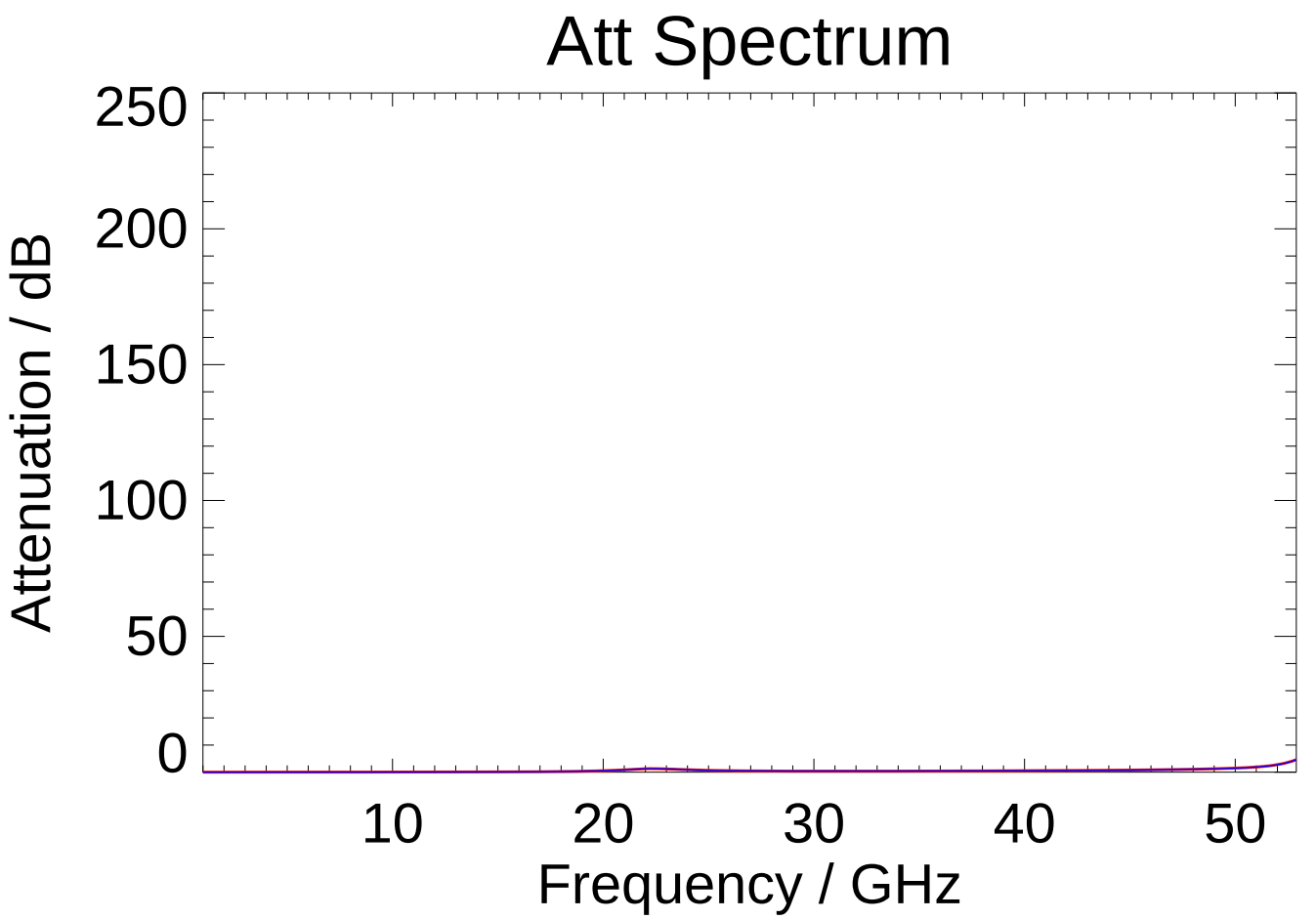
Frequency / GHz


Att Spectrum
Attenuation / dB
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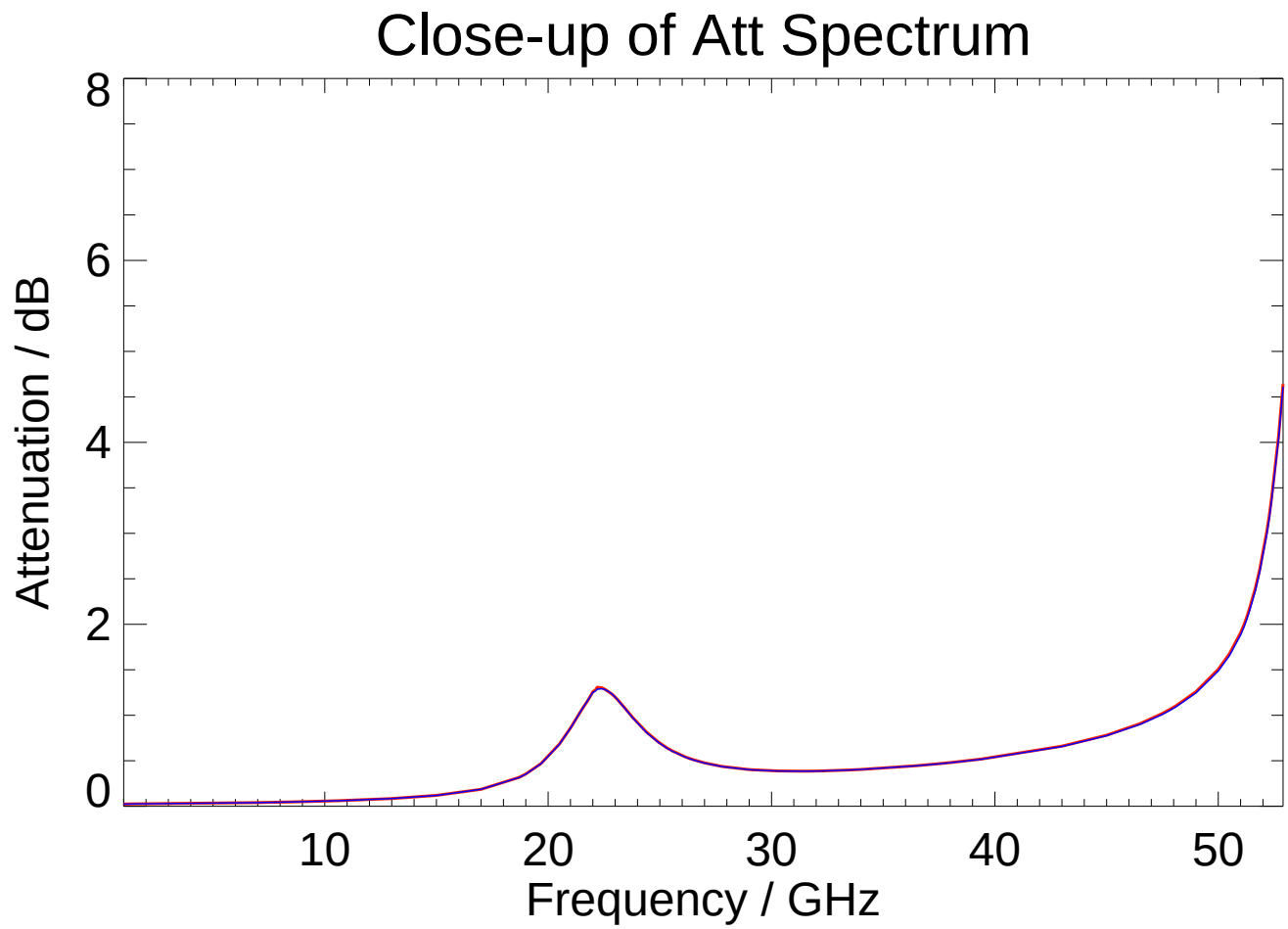
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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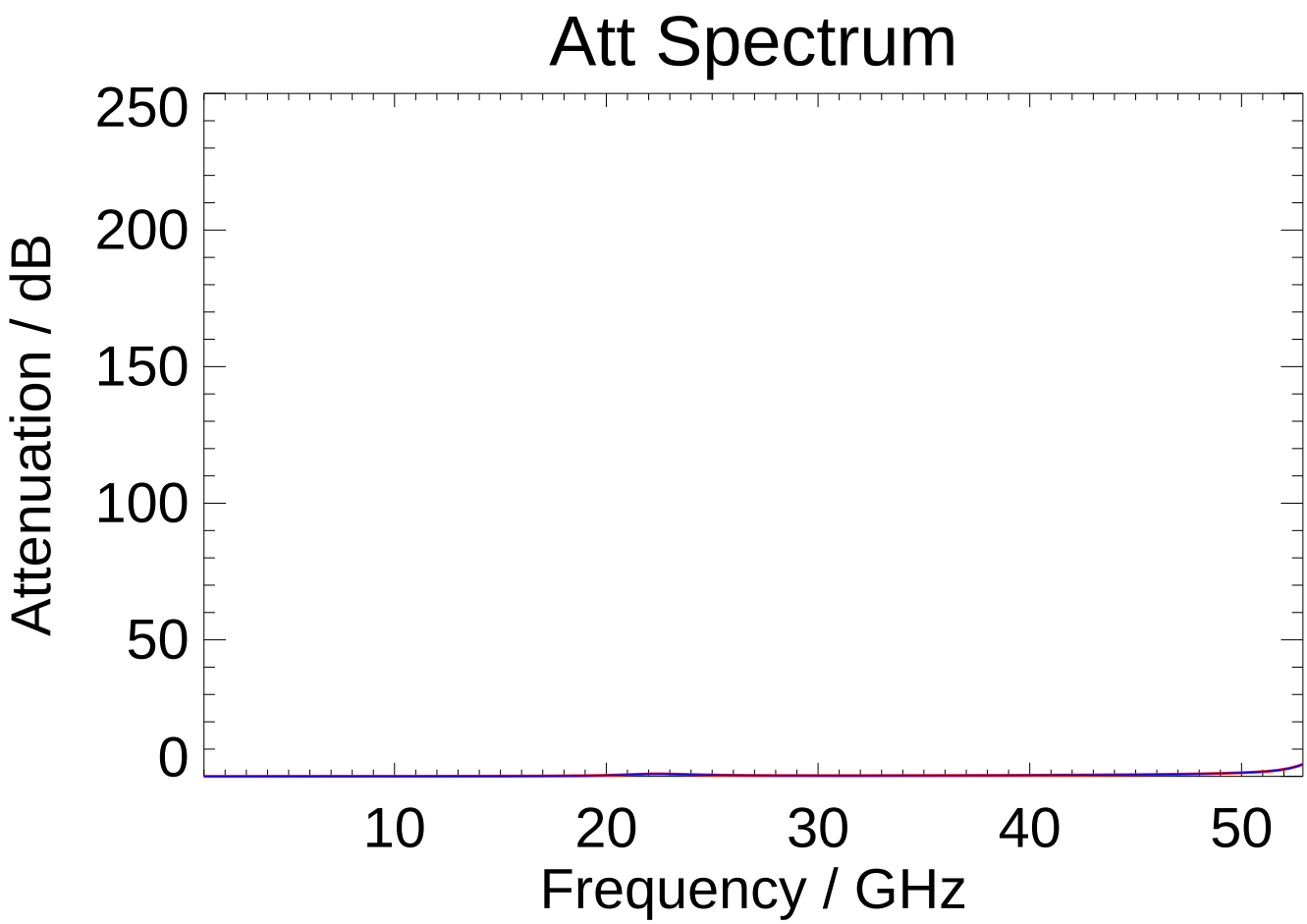
Frequency / GHz


Att Spectrum
Attenuation / dB
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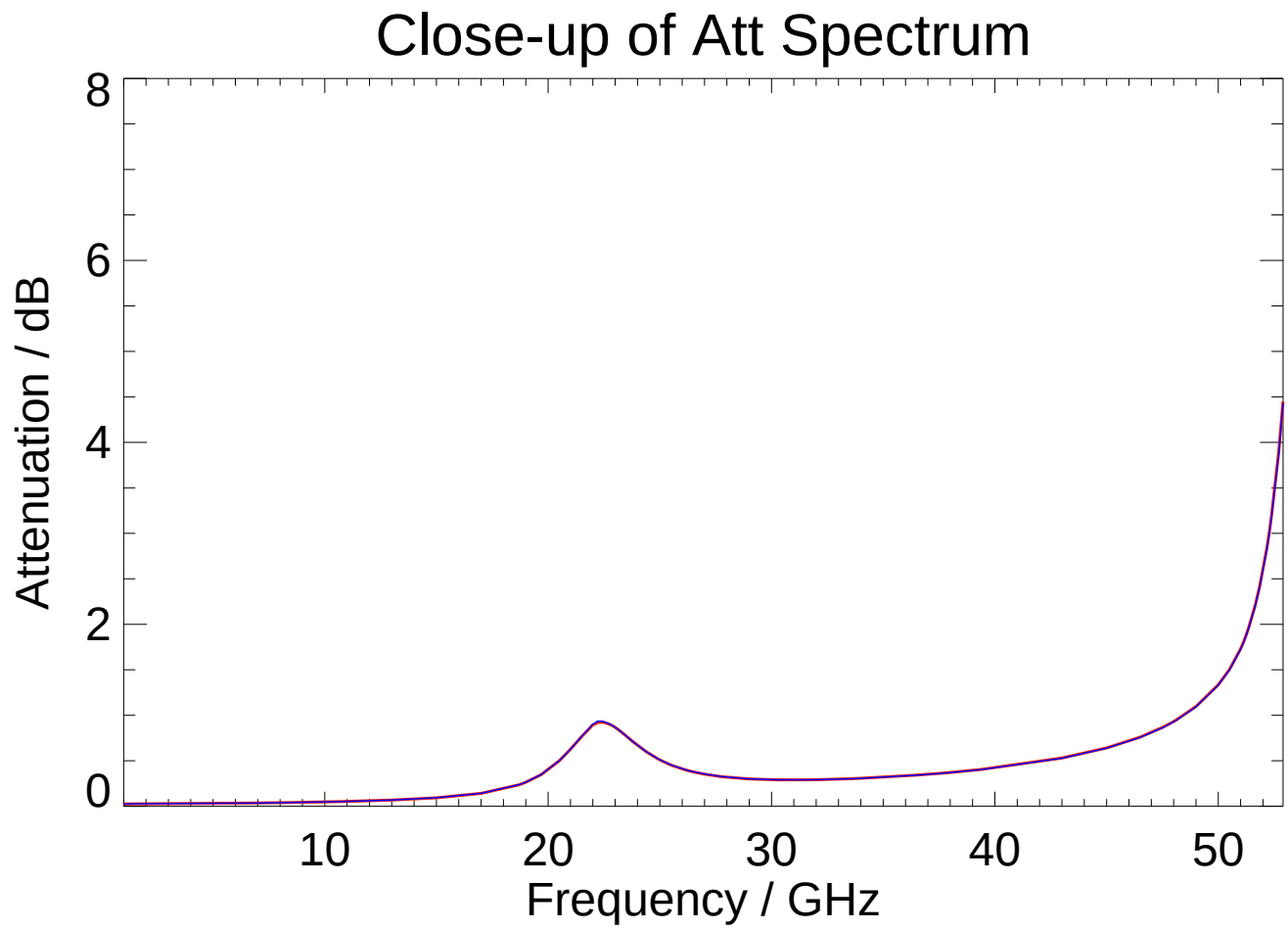
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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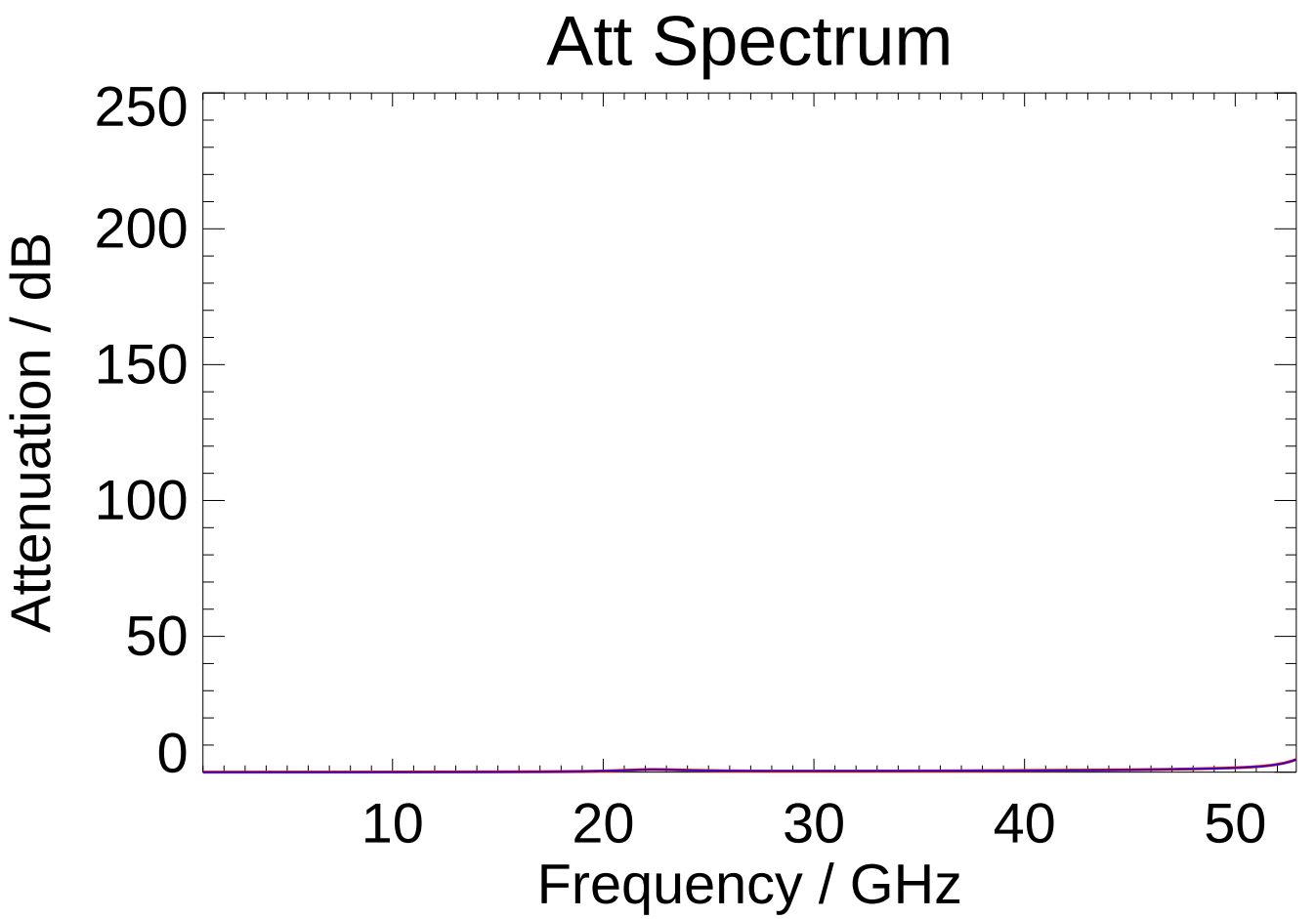
Frequency / GHz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Attenuation / dB
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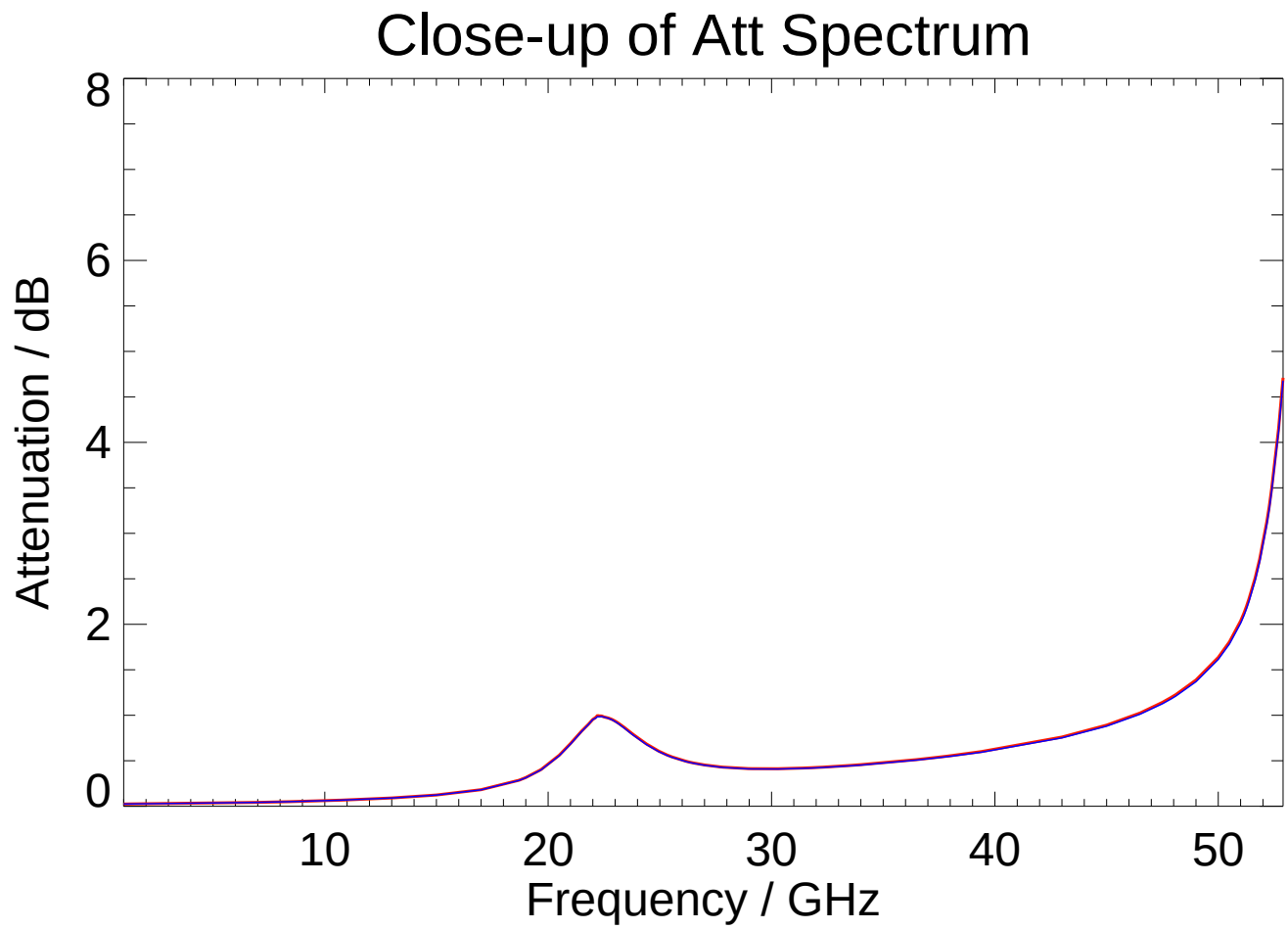
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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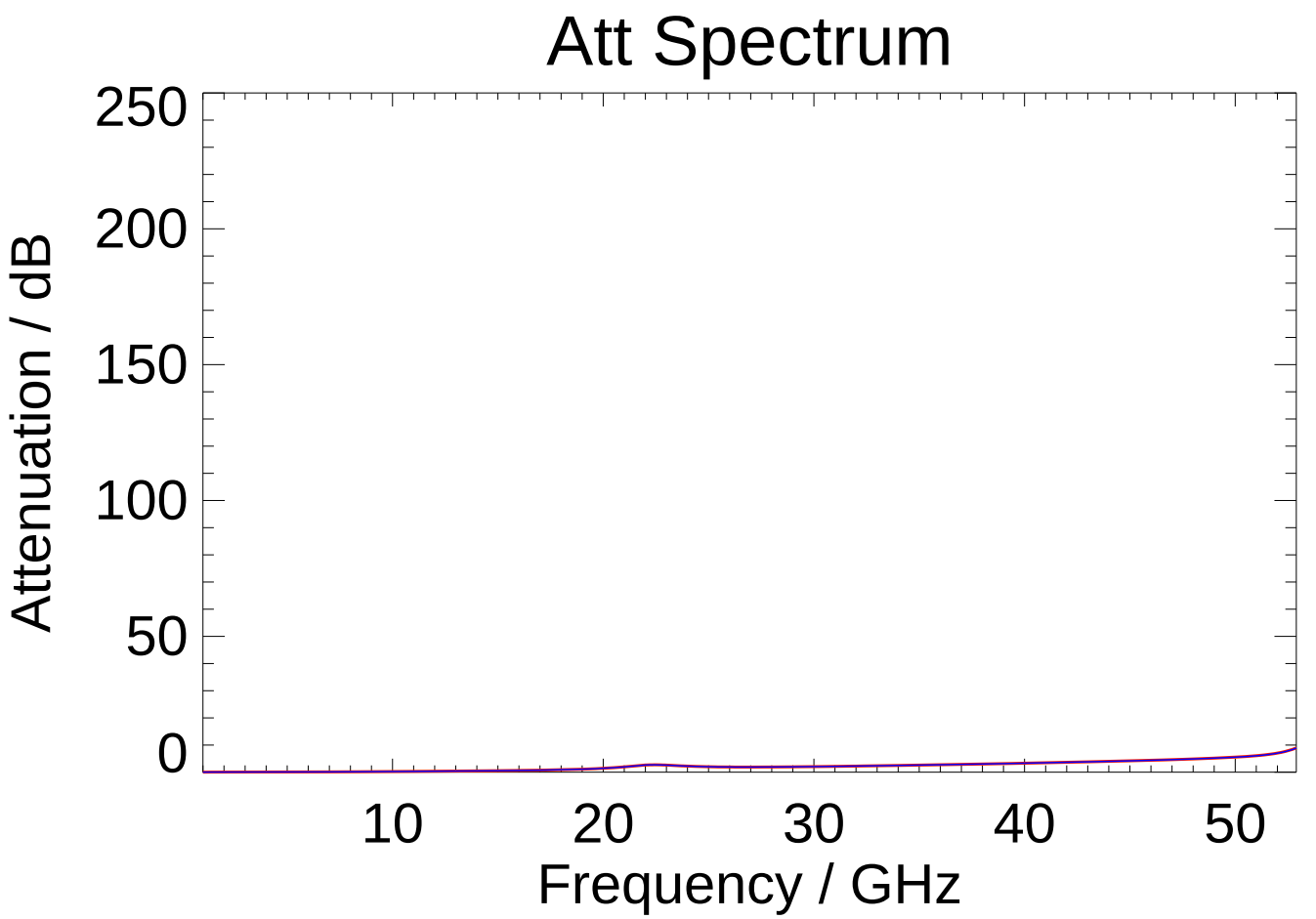
Frequency / GHz


Att Spectrum
Attenuation / dB
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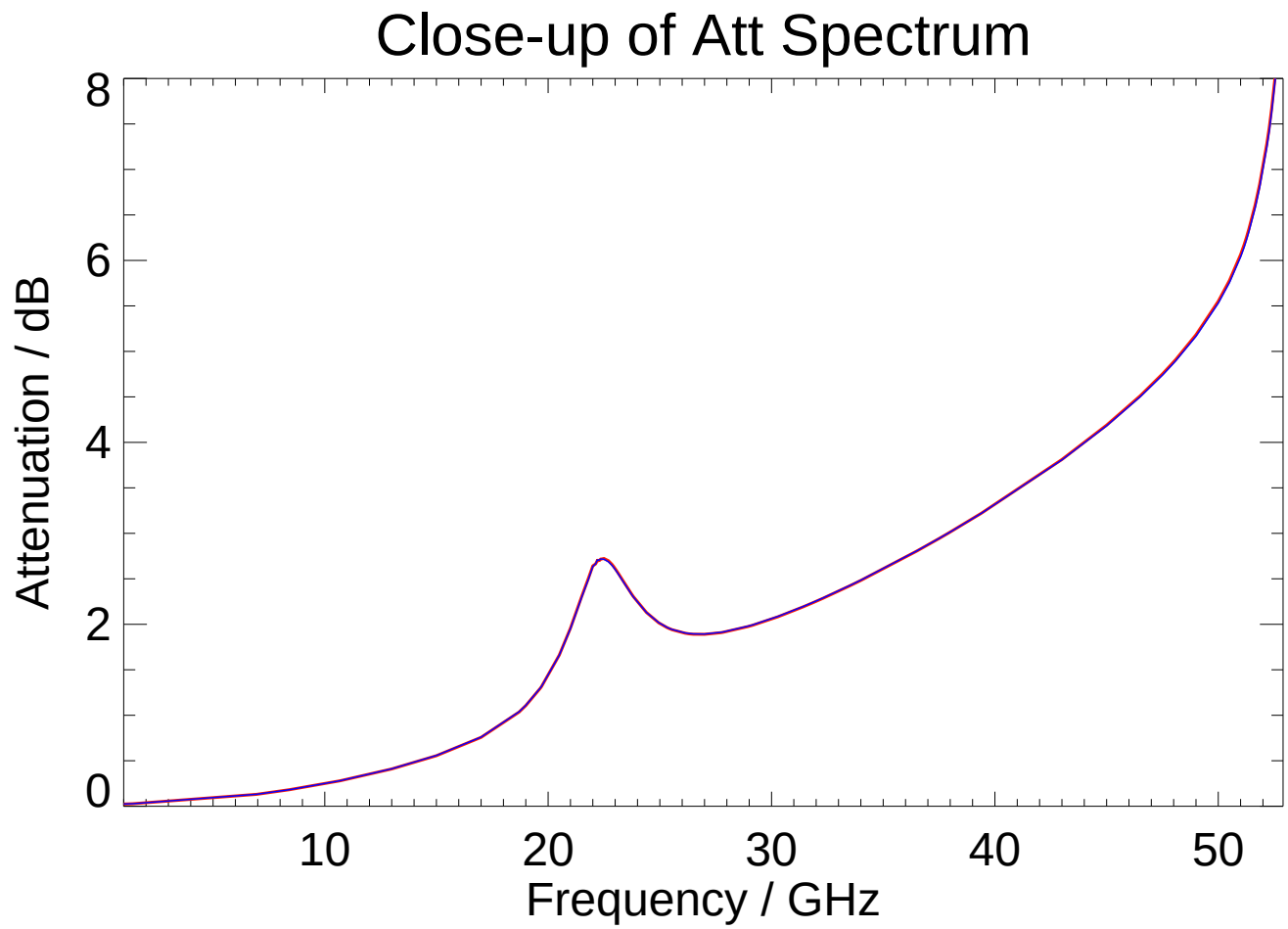
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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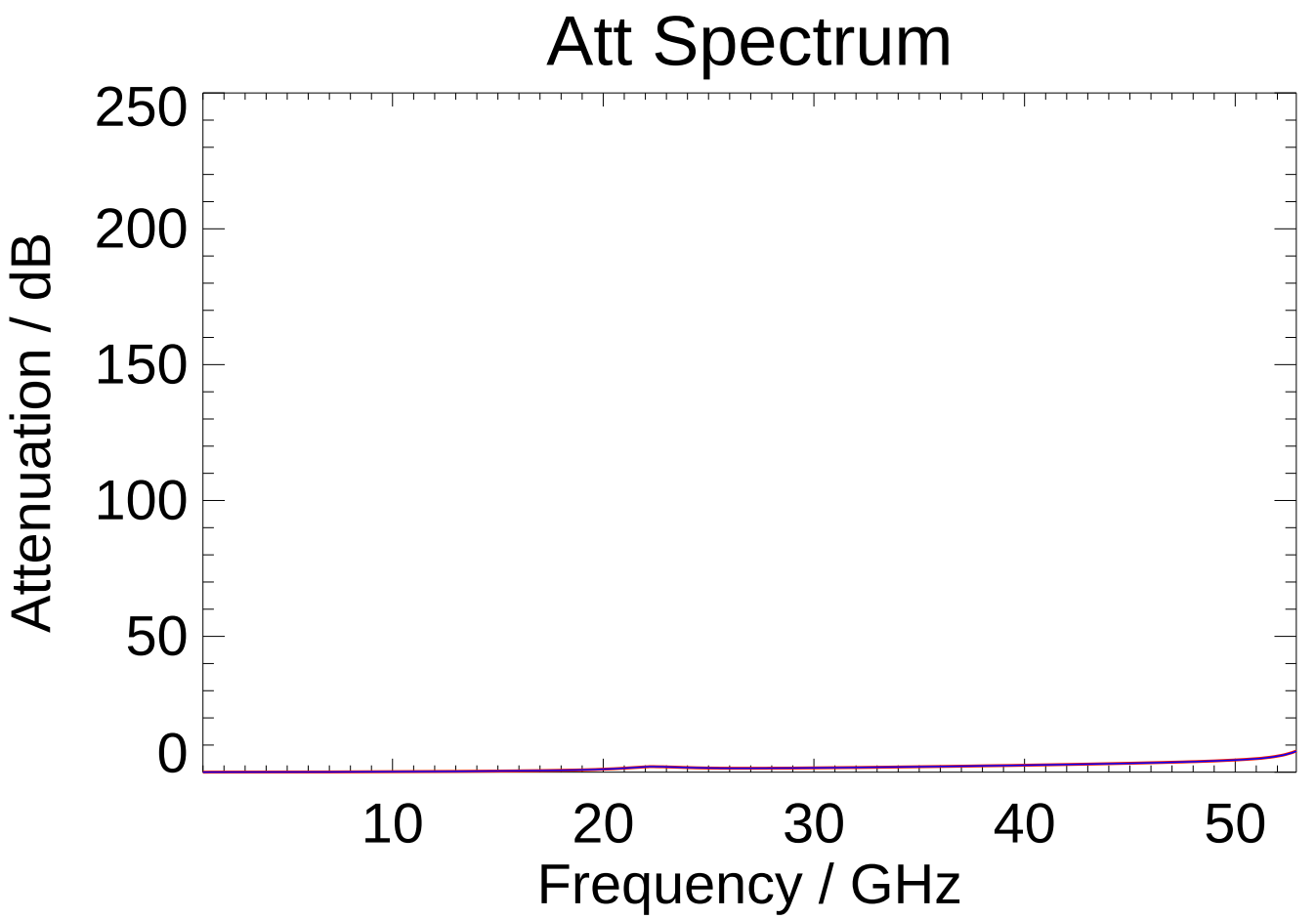
Frequency / GHz


Att Spectrum
Attenuation / dB
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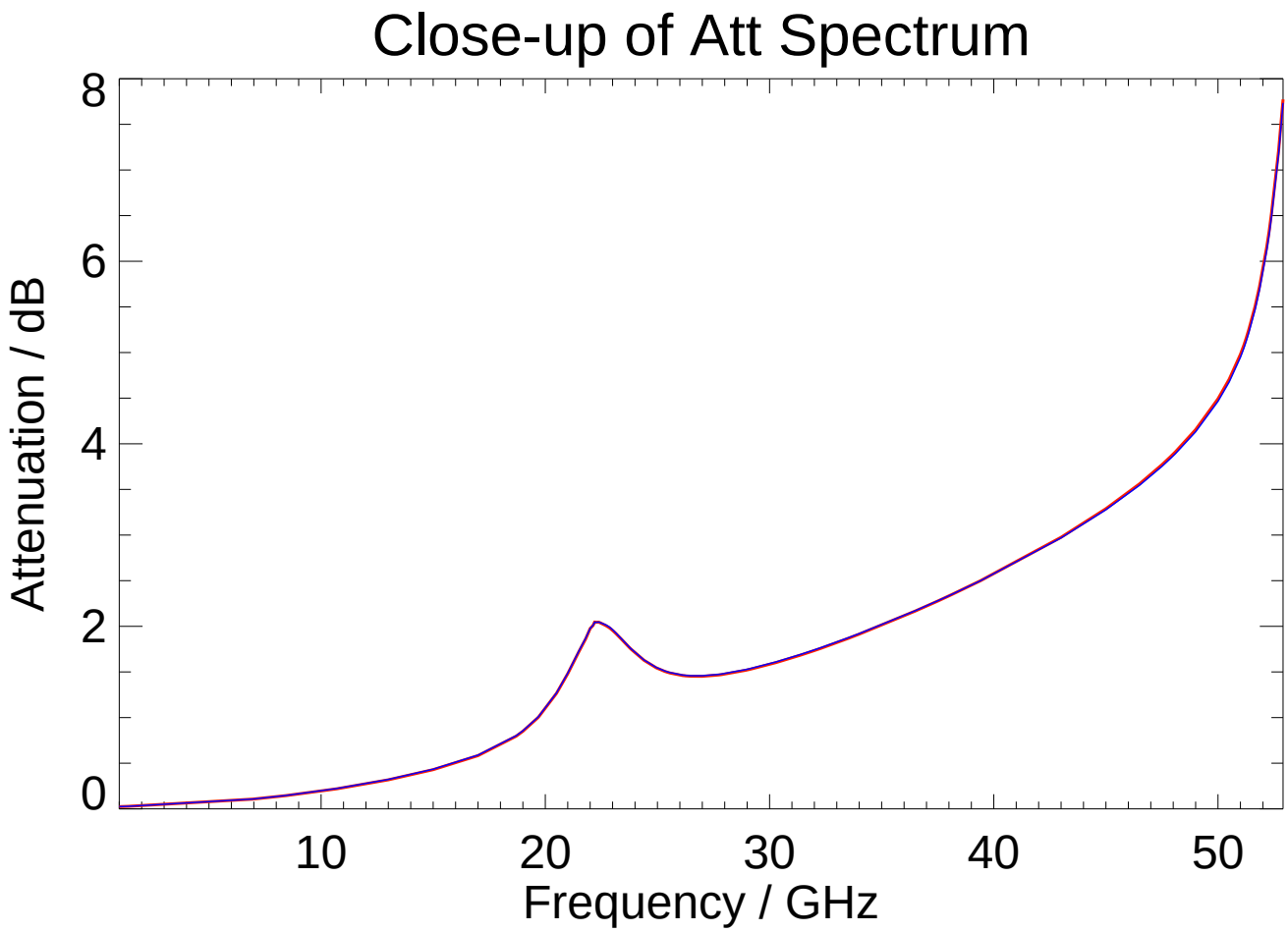
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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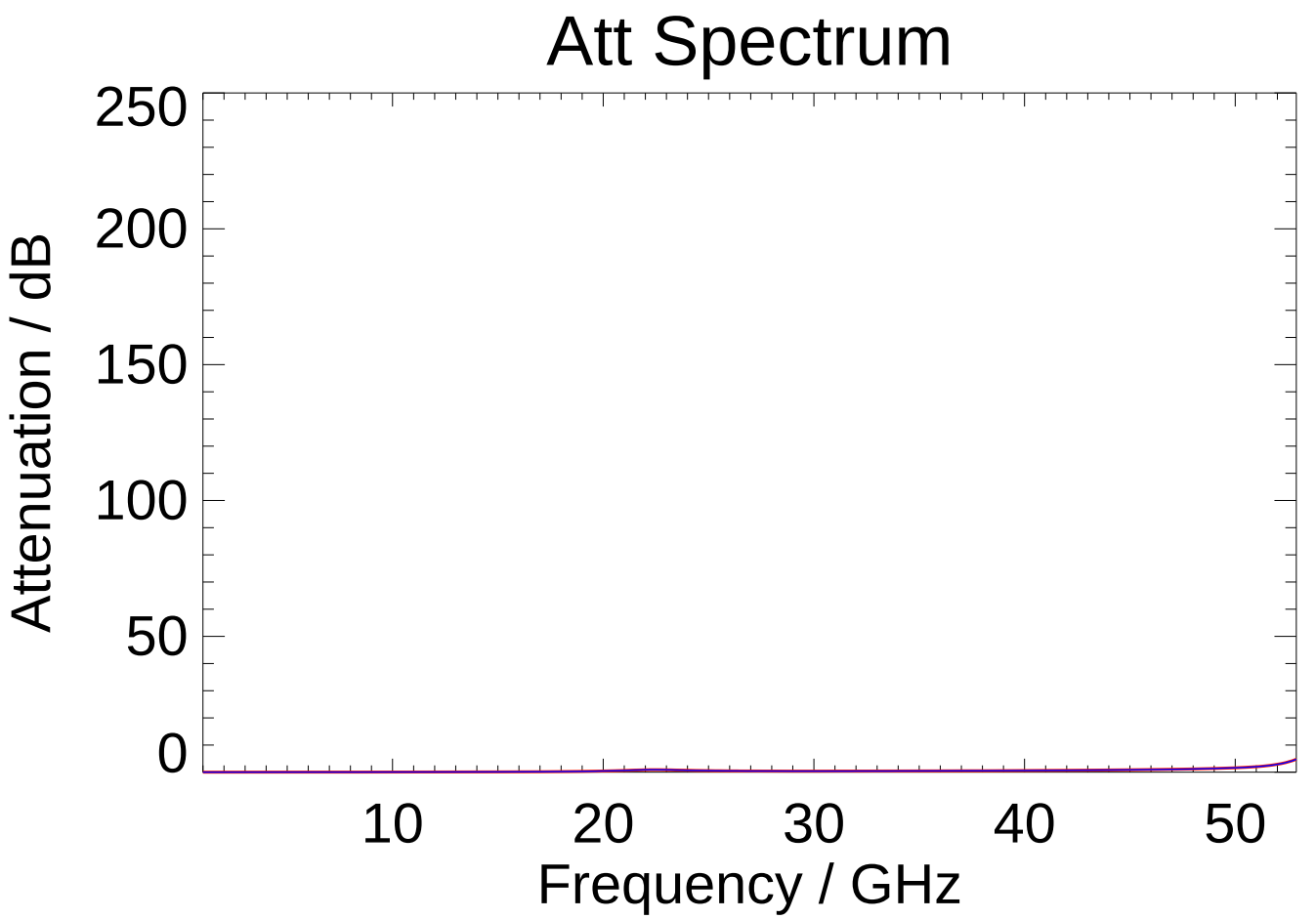
Frequency / GHz


Att Spectrum
Attenuation / dB
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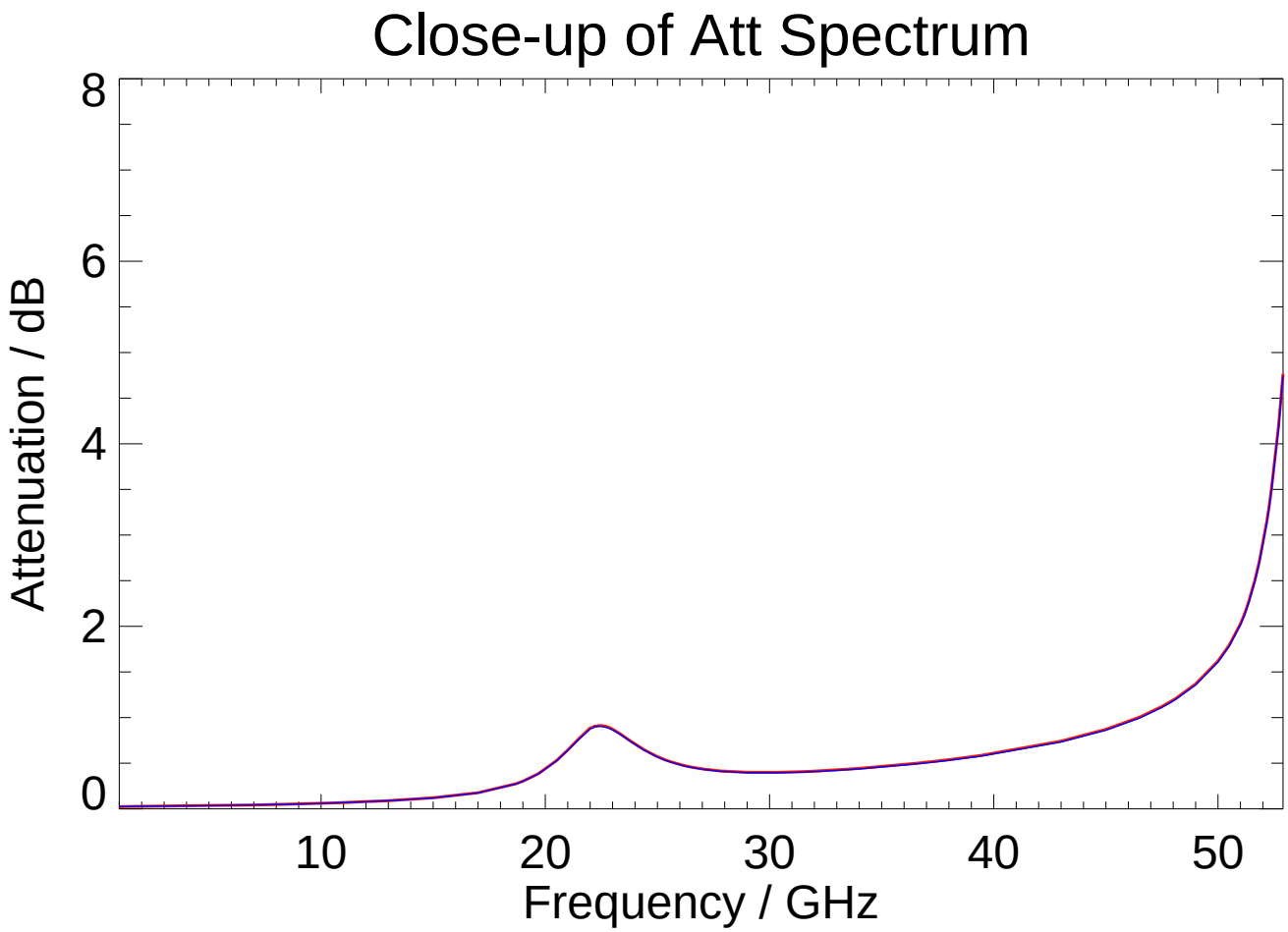
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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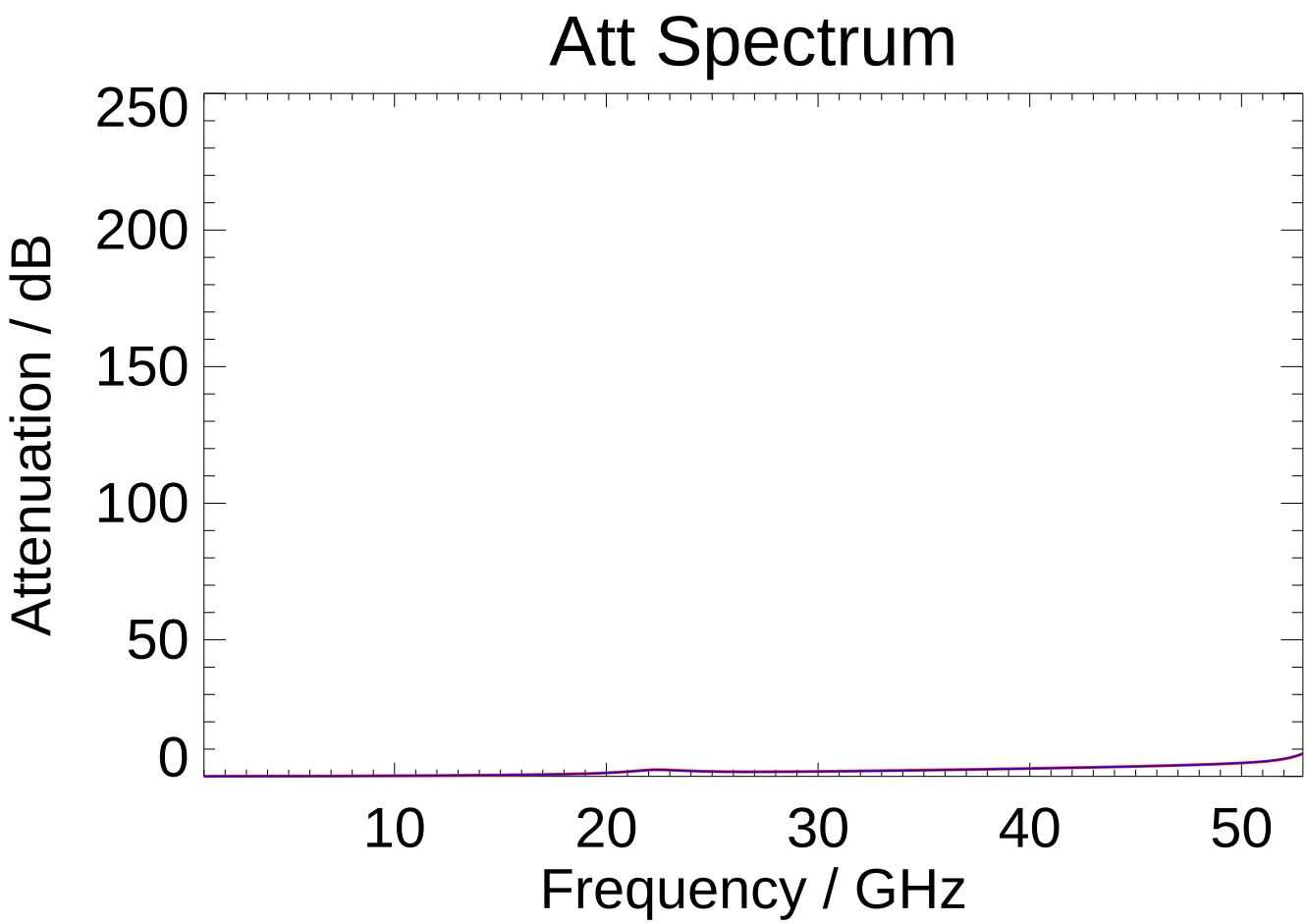
Frequency / GHz


Att Spectrum
Attenuation / dB
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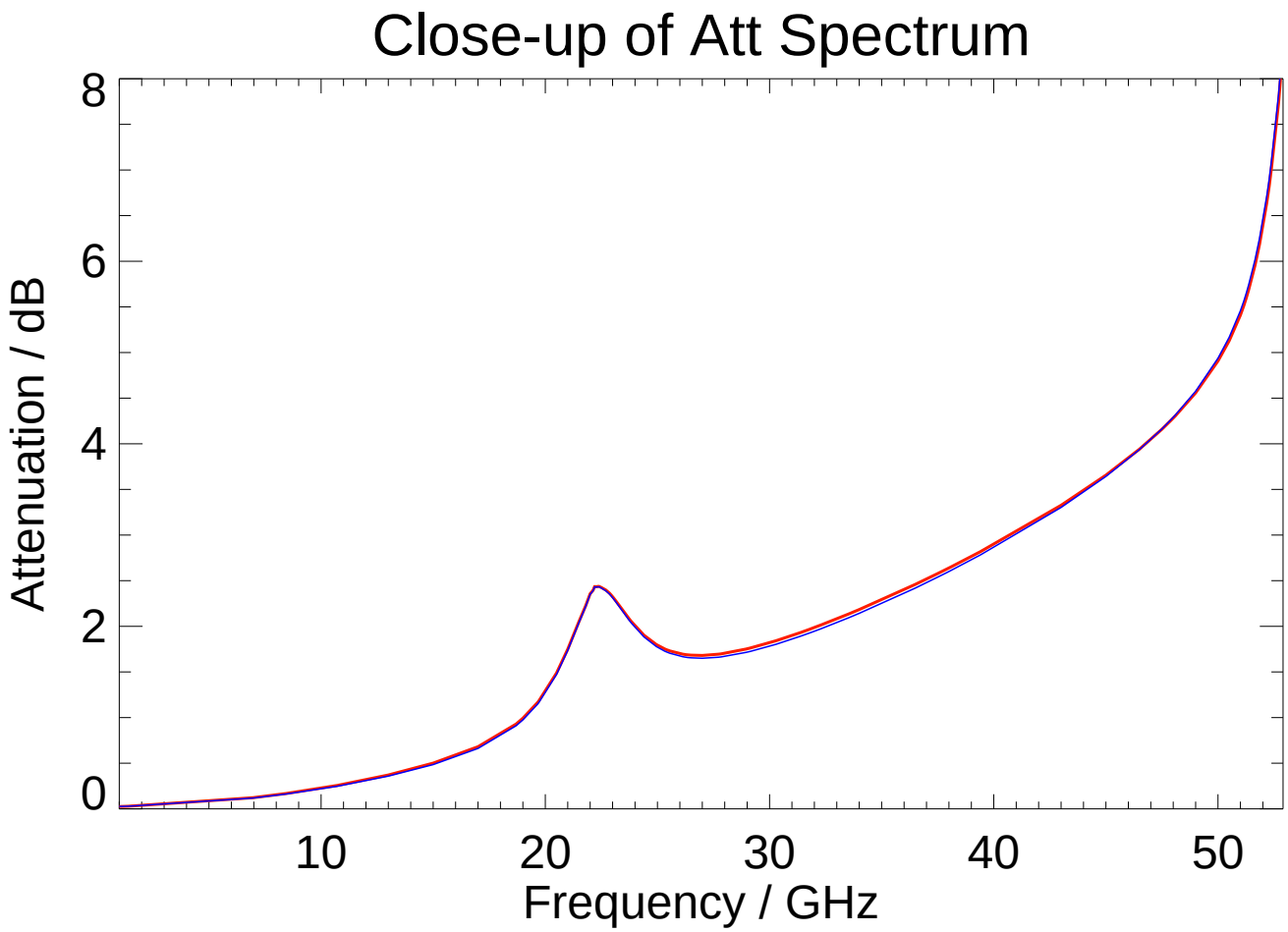
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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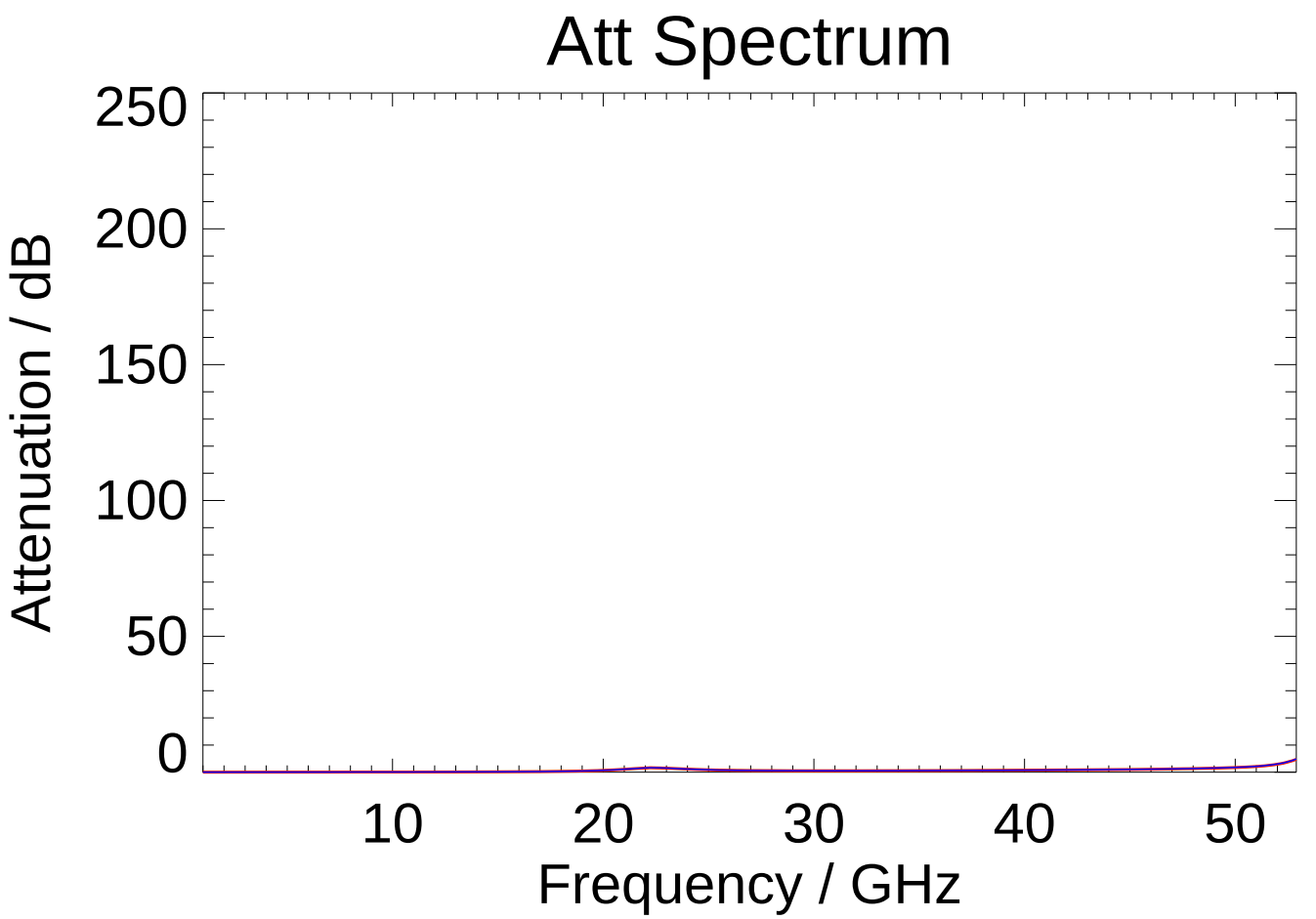
Frequency / GHz


Att Spectrum
Attenuation / dB
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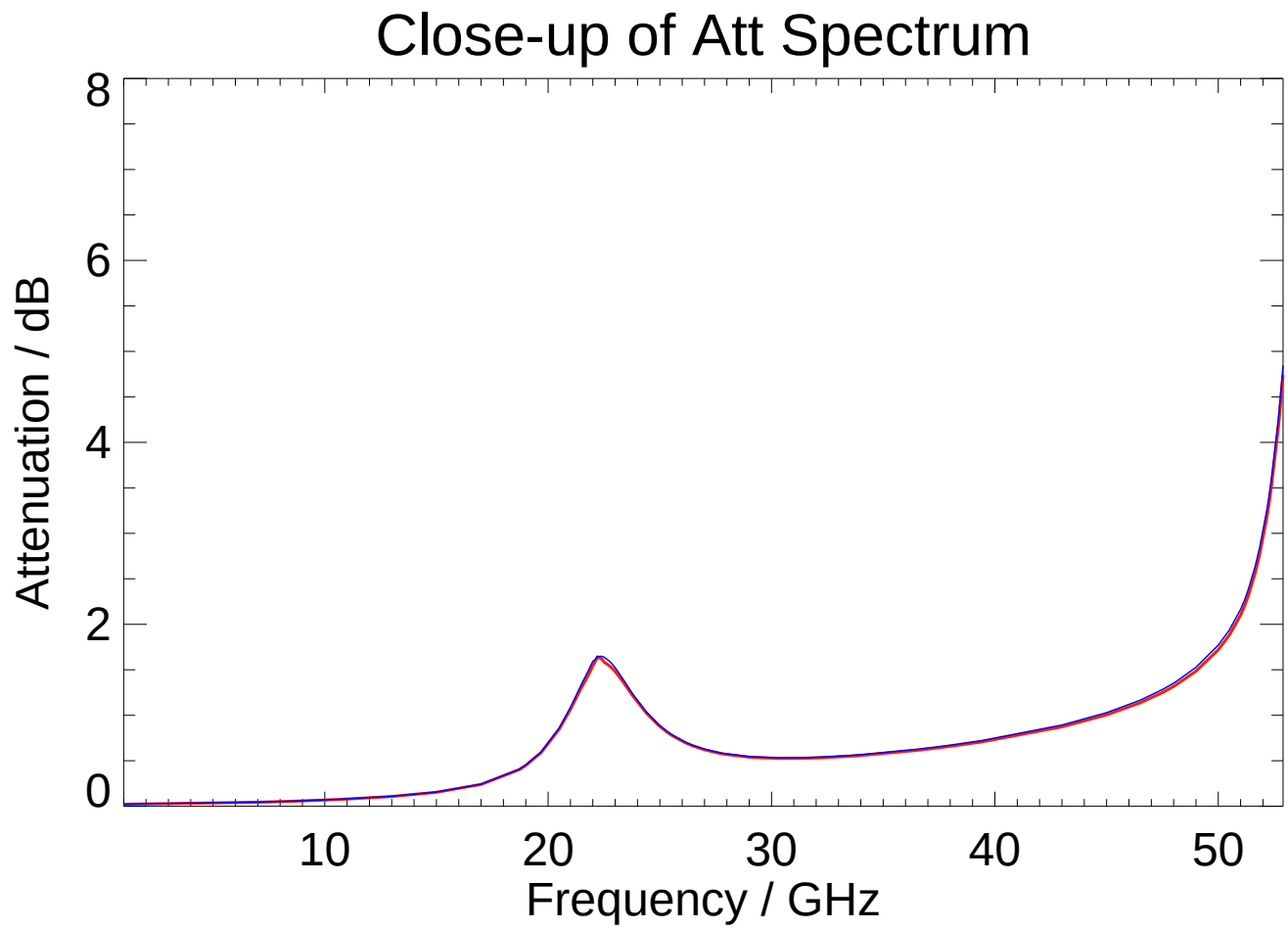
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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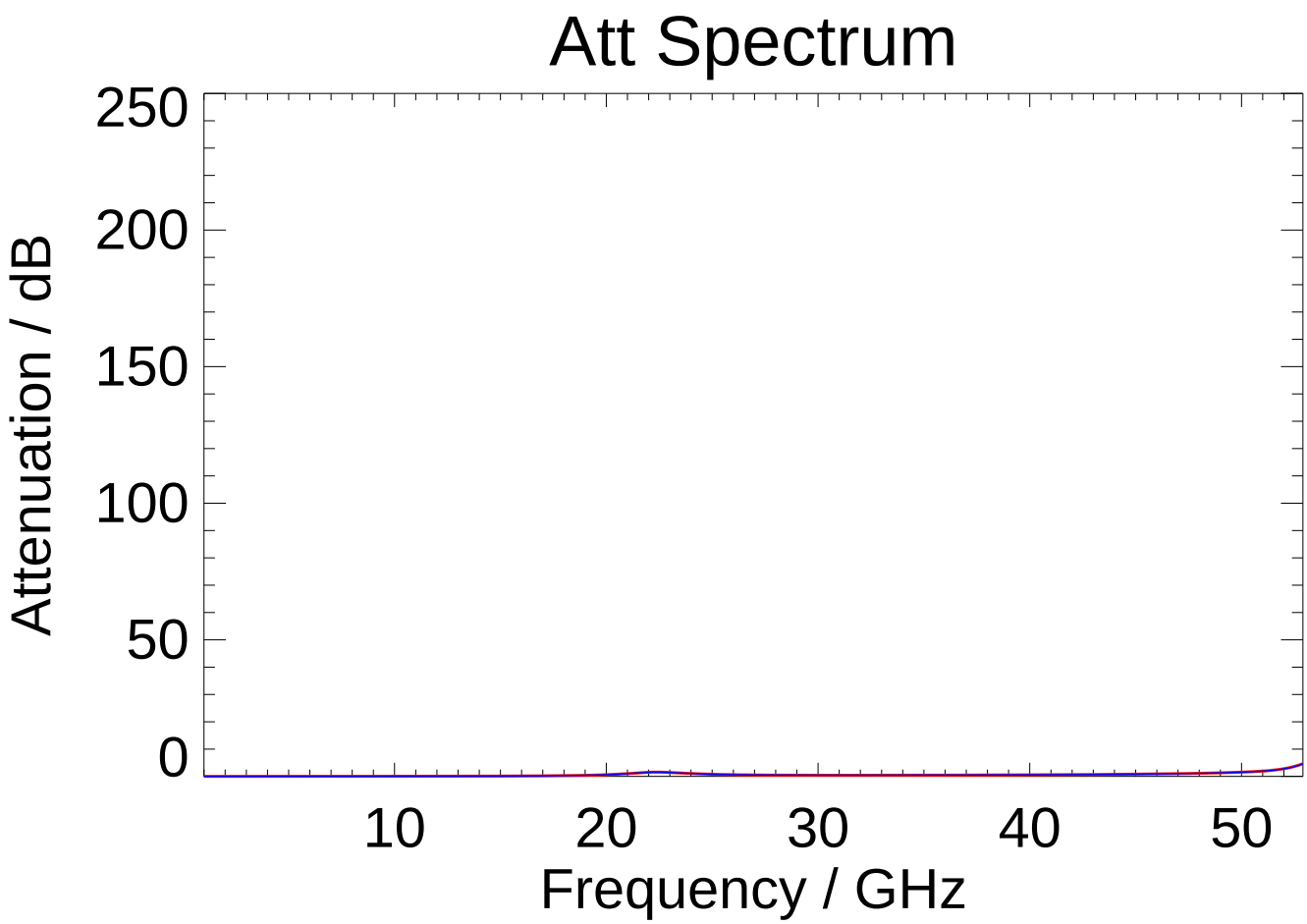
Frequency / GHz


Att Spectrum
Attenuation / dB
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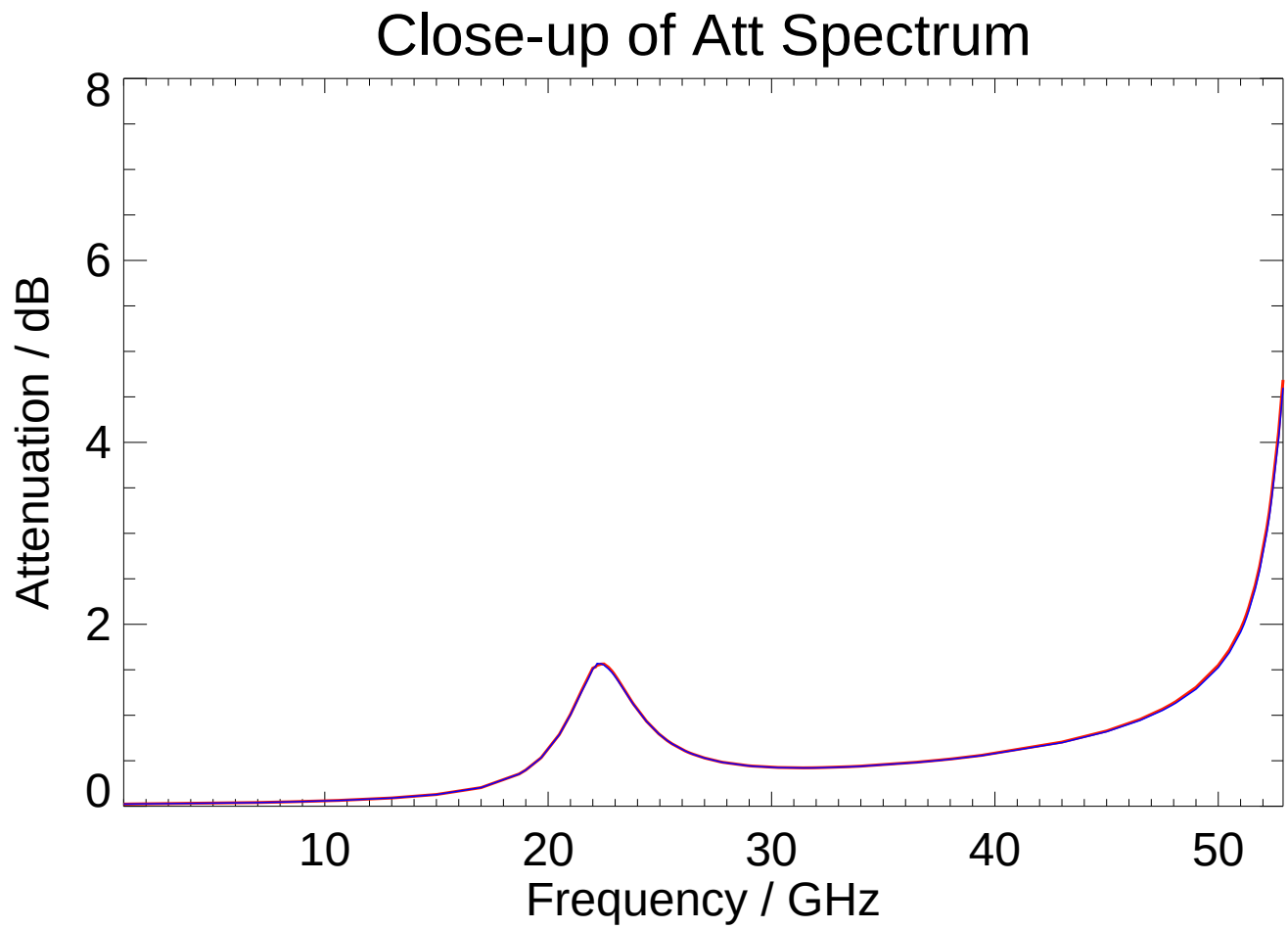
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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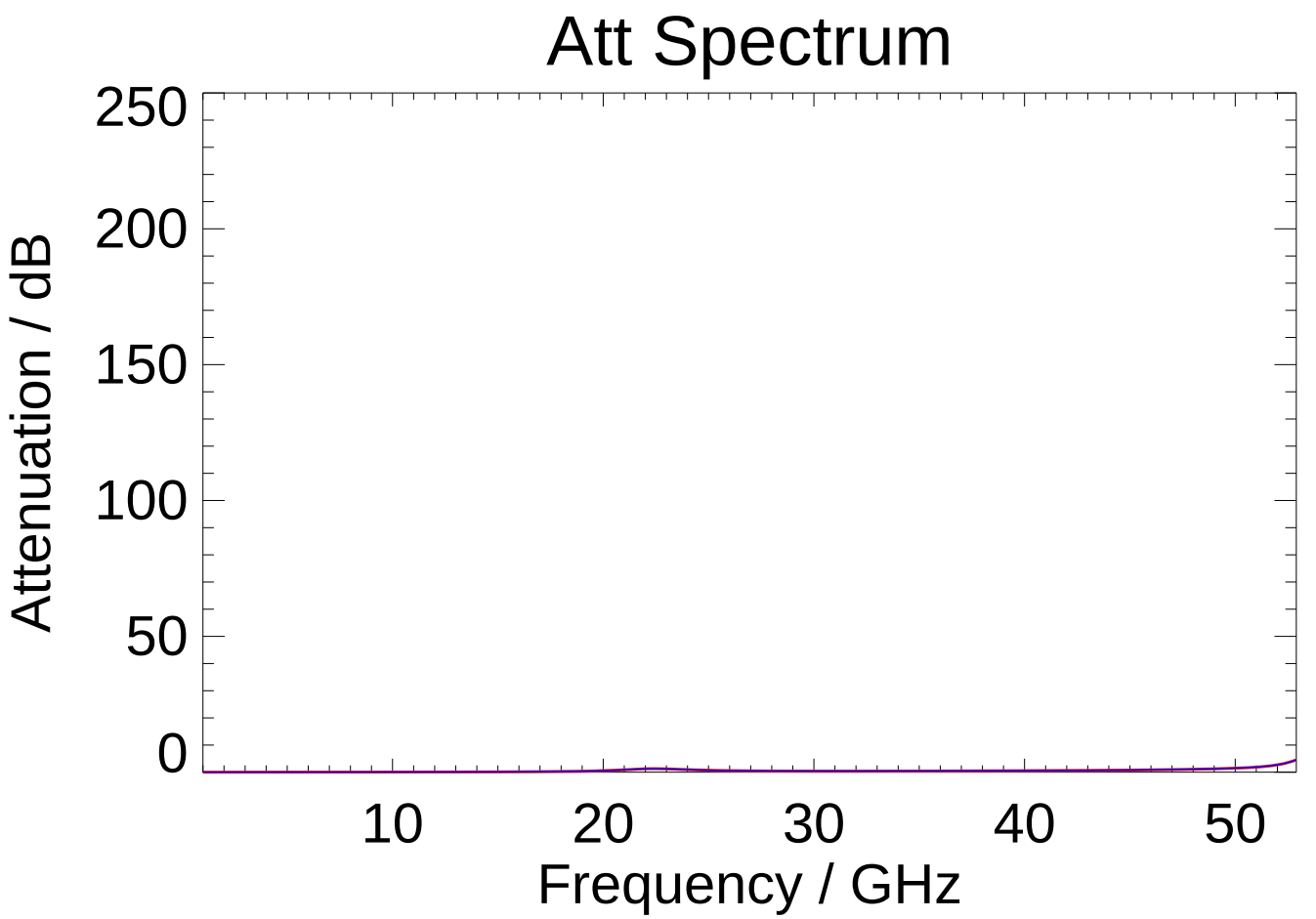
Frequency / GHz


Att Spectrum
Attenuation / dB
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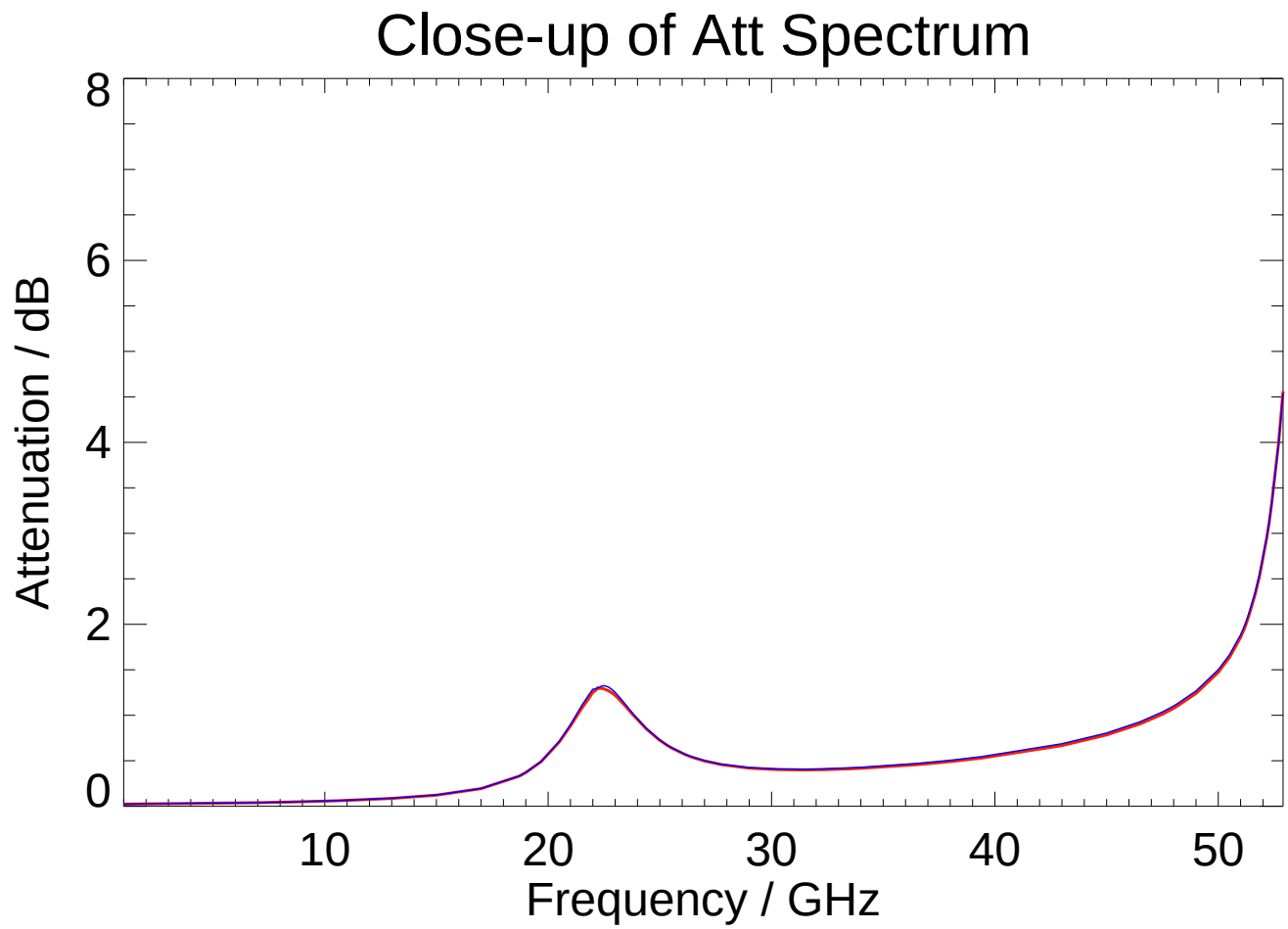
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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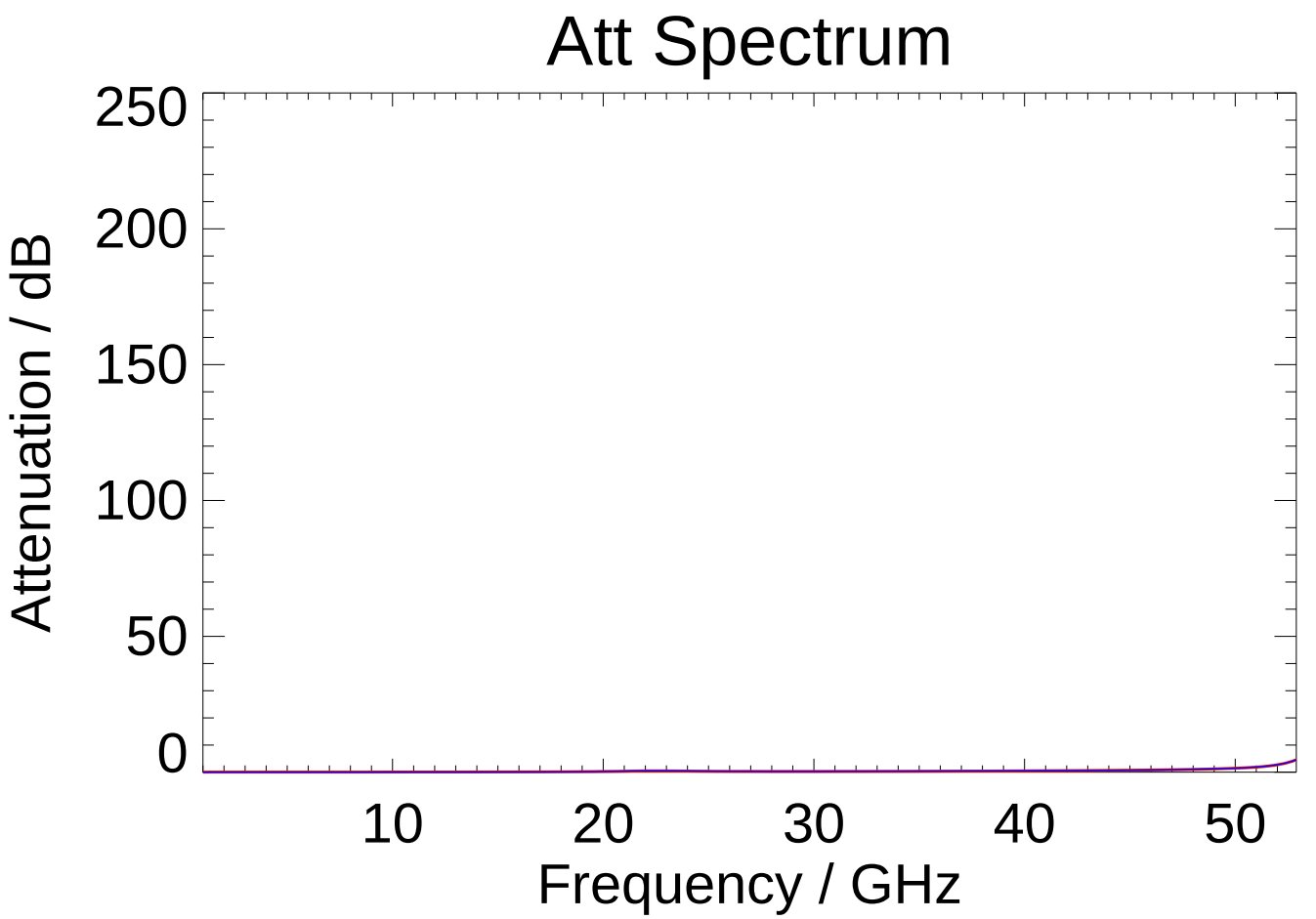
Frequency / GHz


Att Spectrum
Attenuation / dB
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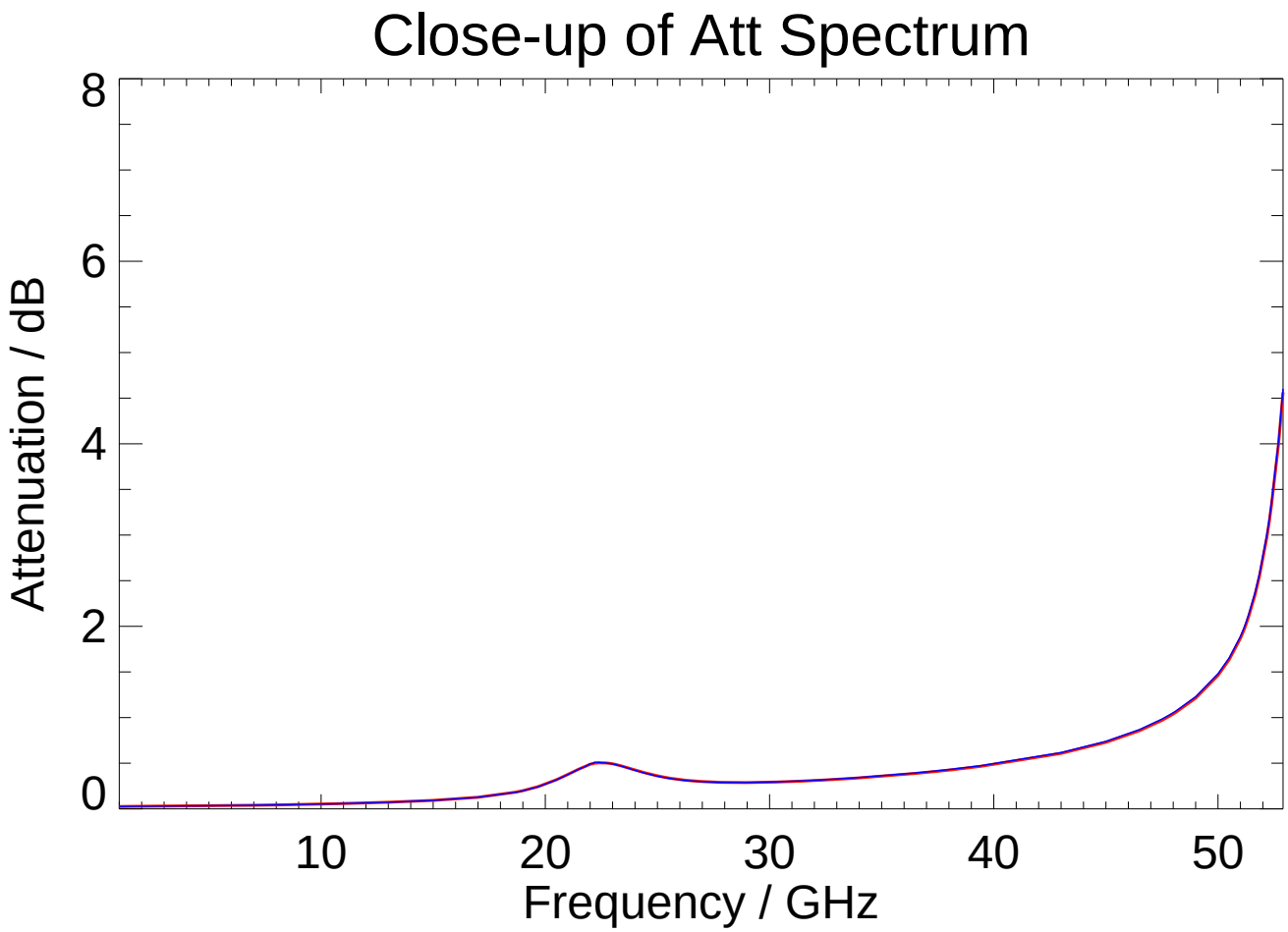
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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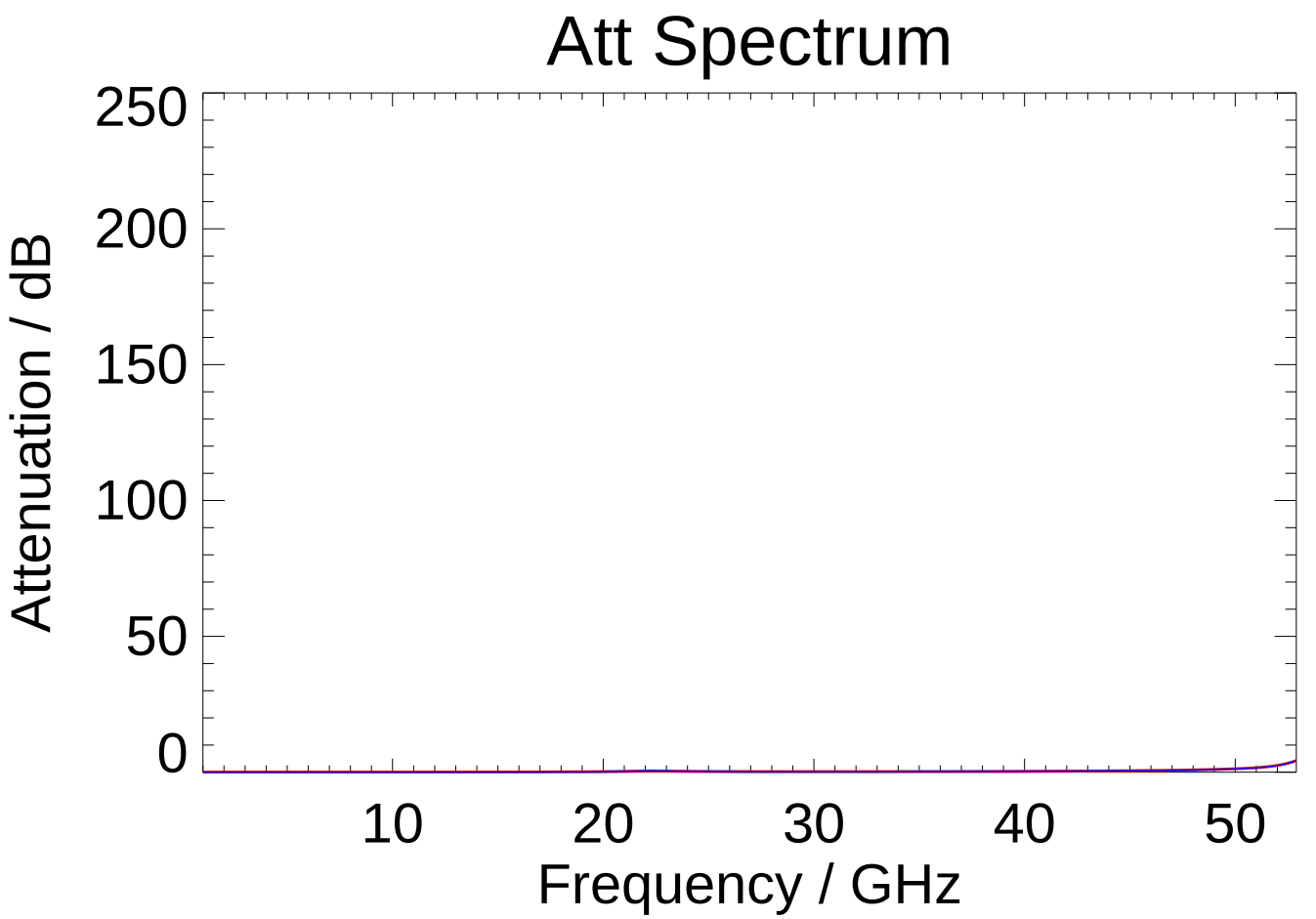
Frequency / GHz


Att Spectrum
Attenuation / dB
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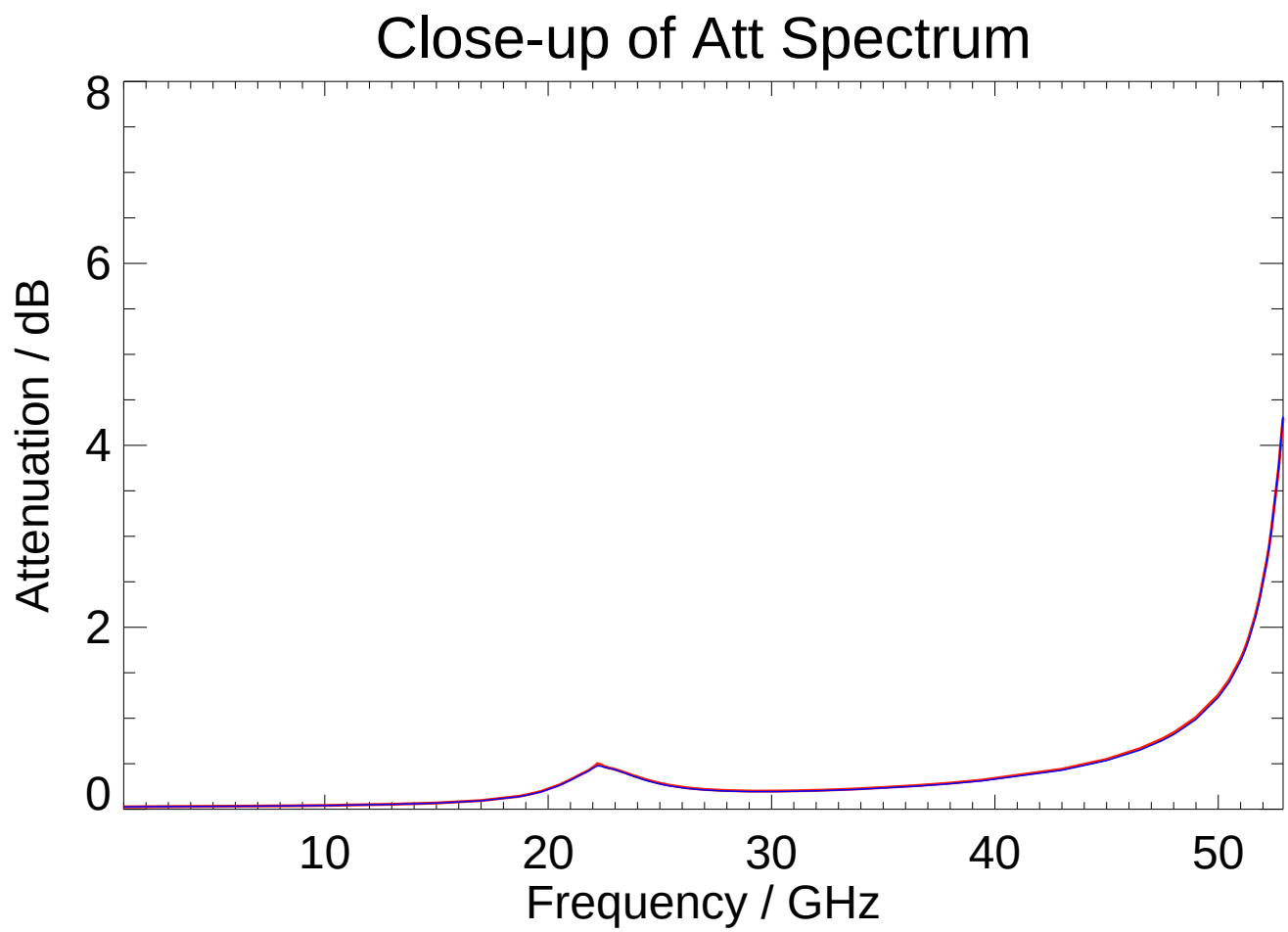
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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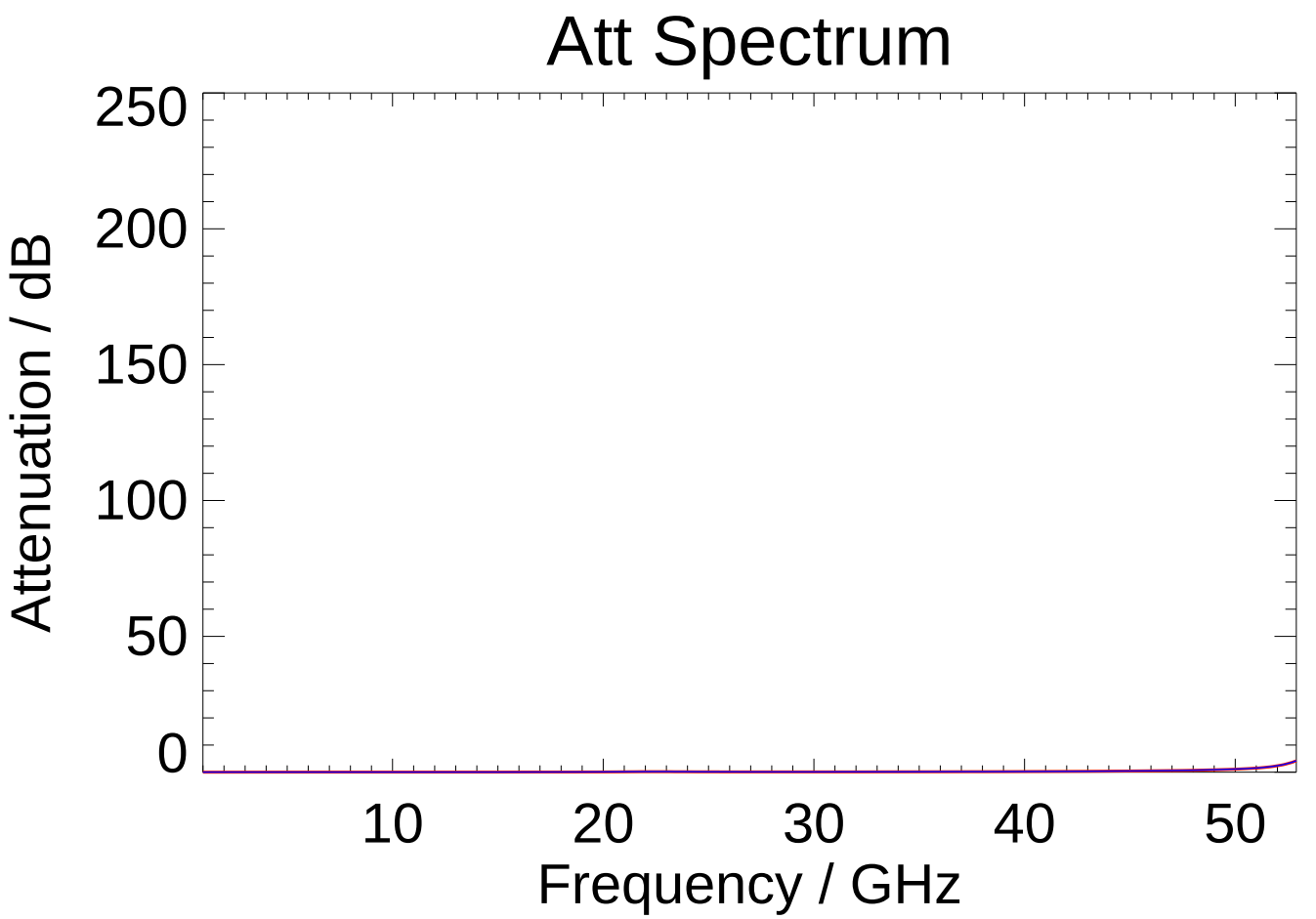
Frequency / GHz


Att Spectrum
Attenuation / dB
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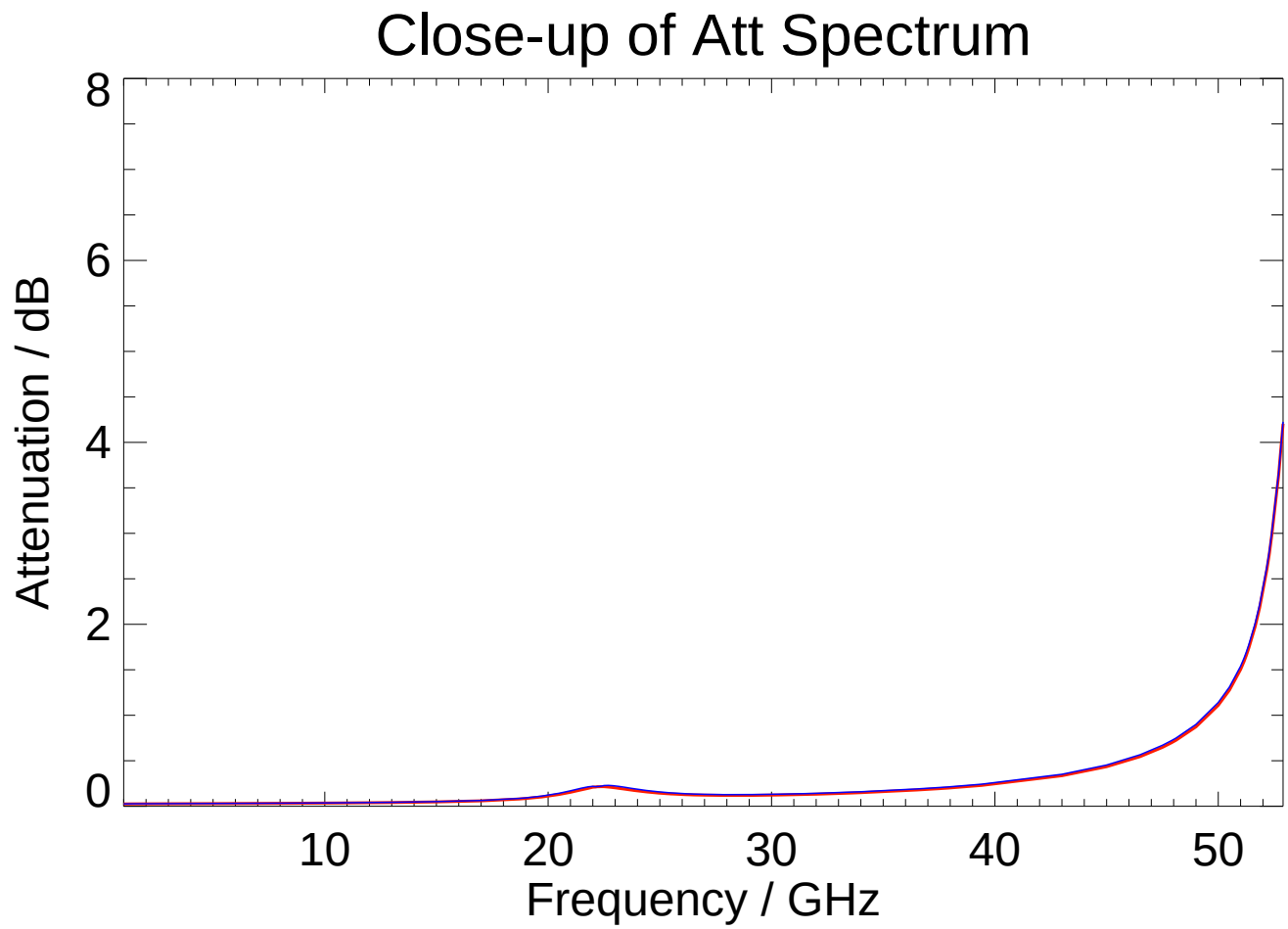
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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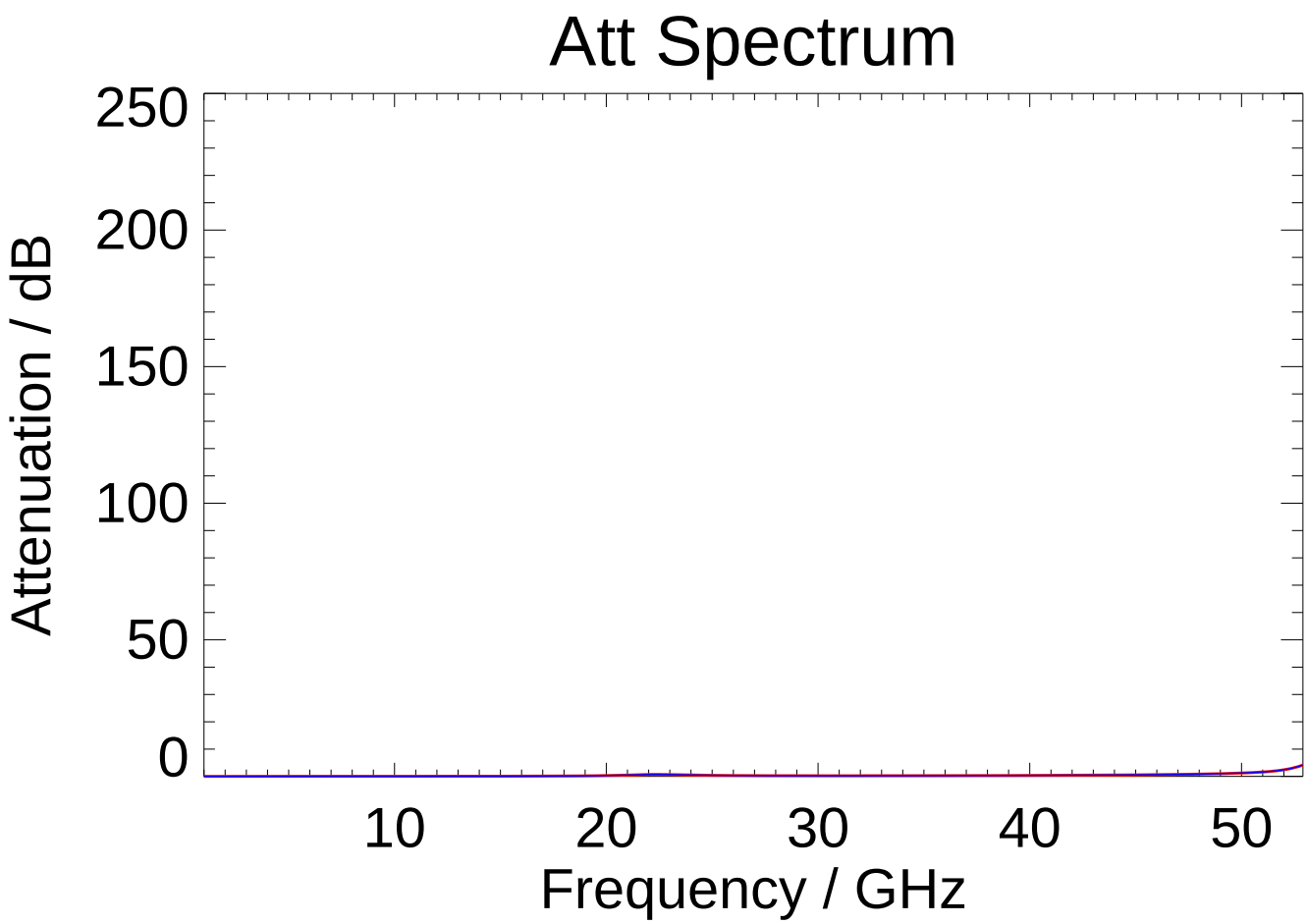
Frequency / GHz


Att Spectrum
Attenuation / dB
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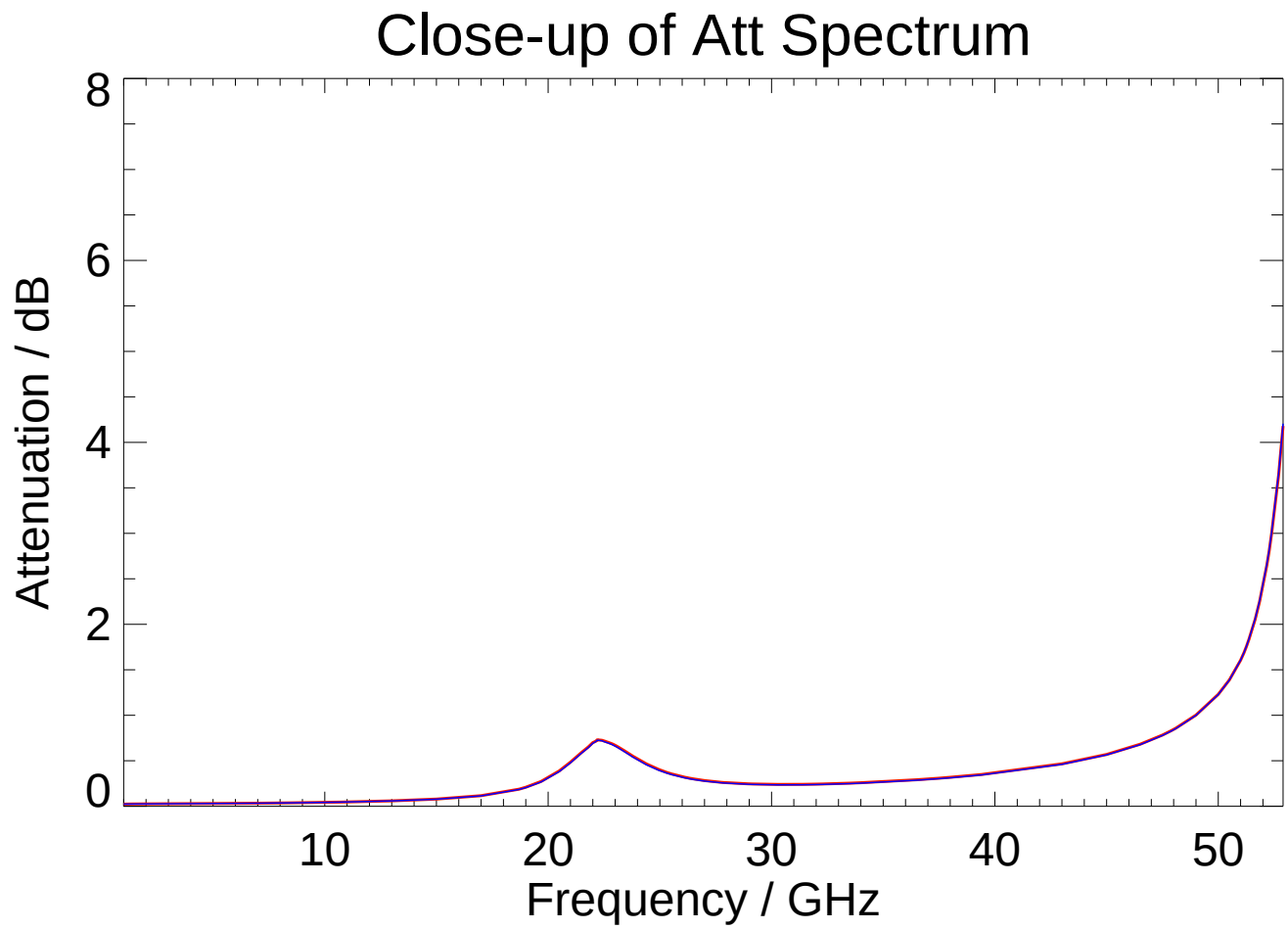
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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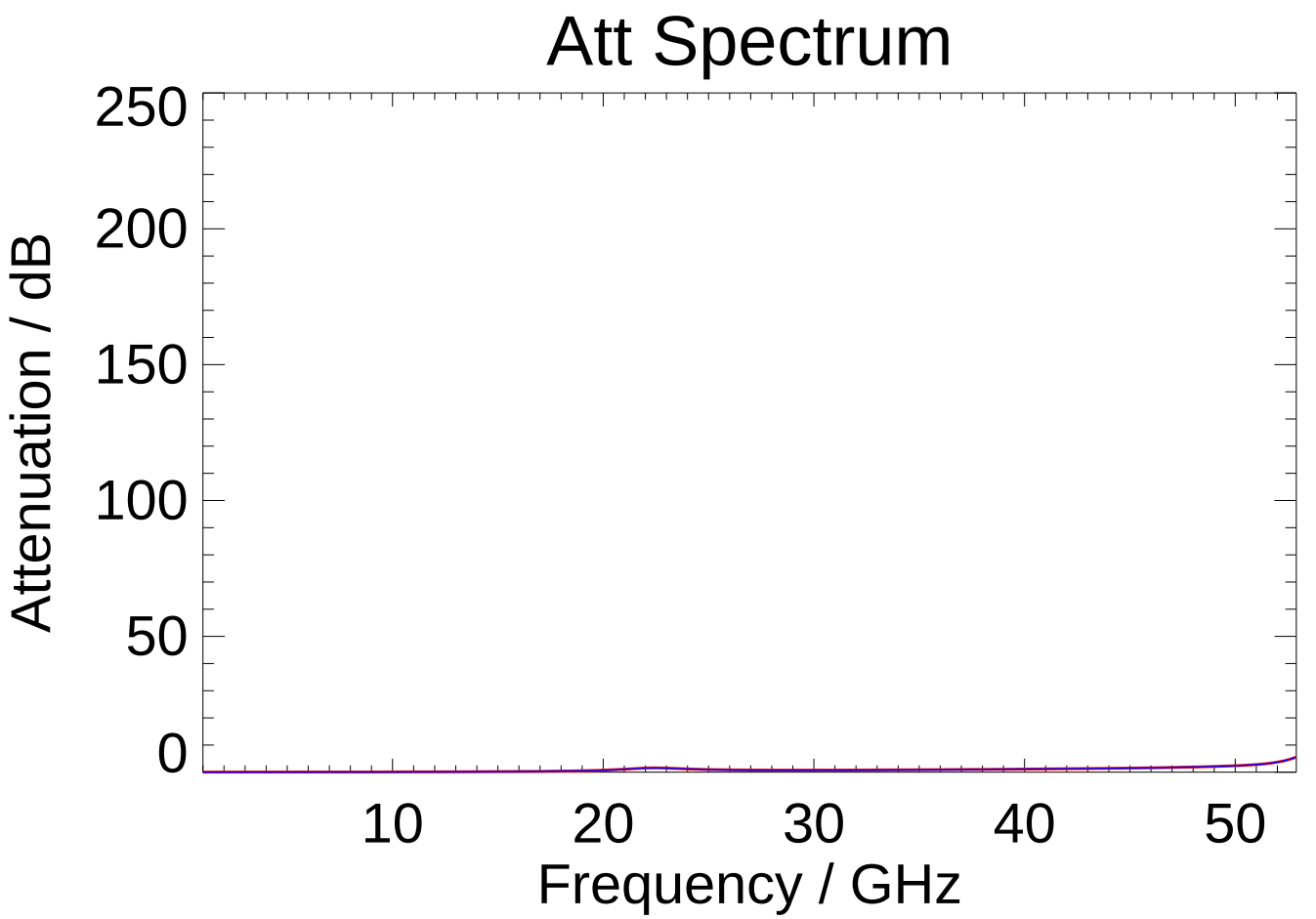
Frequency / GHz


Att Spectrum
Attenuation / dB
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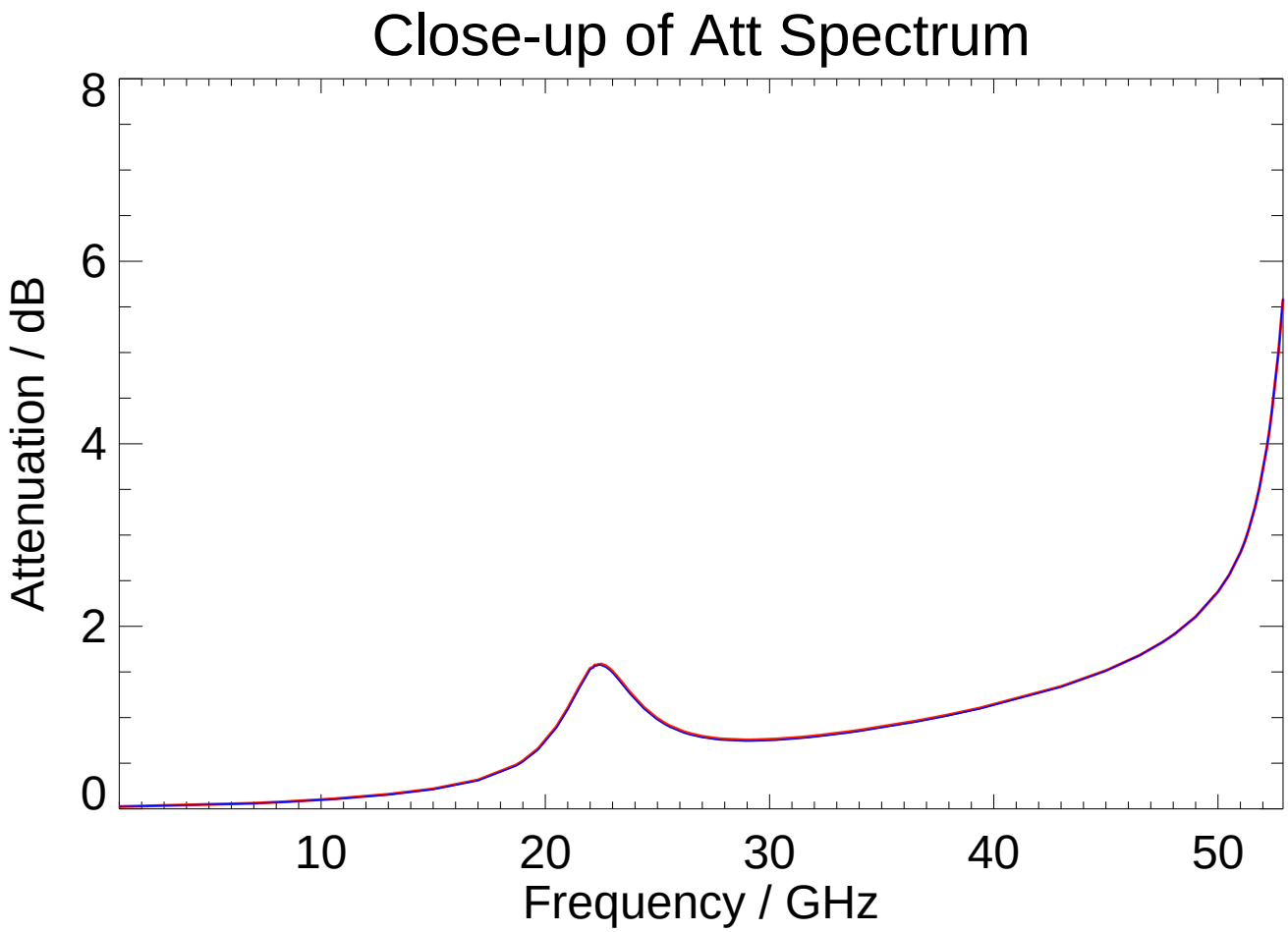
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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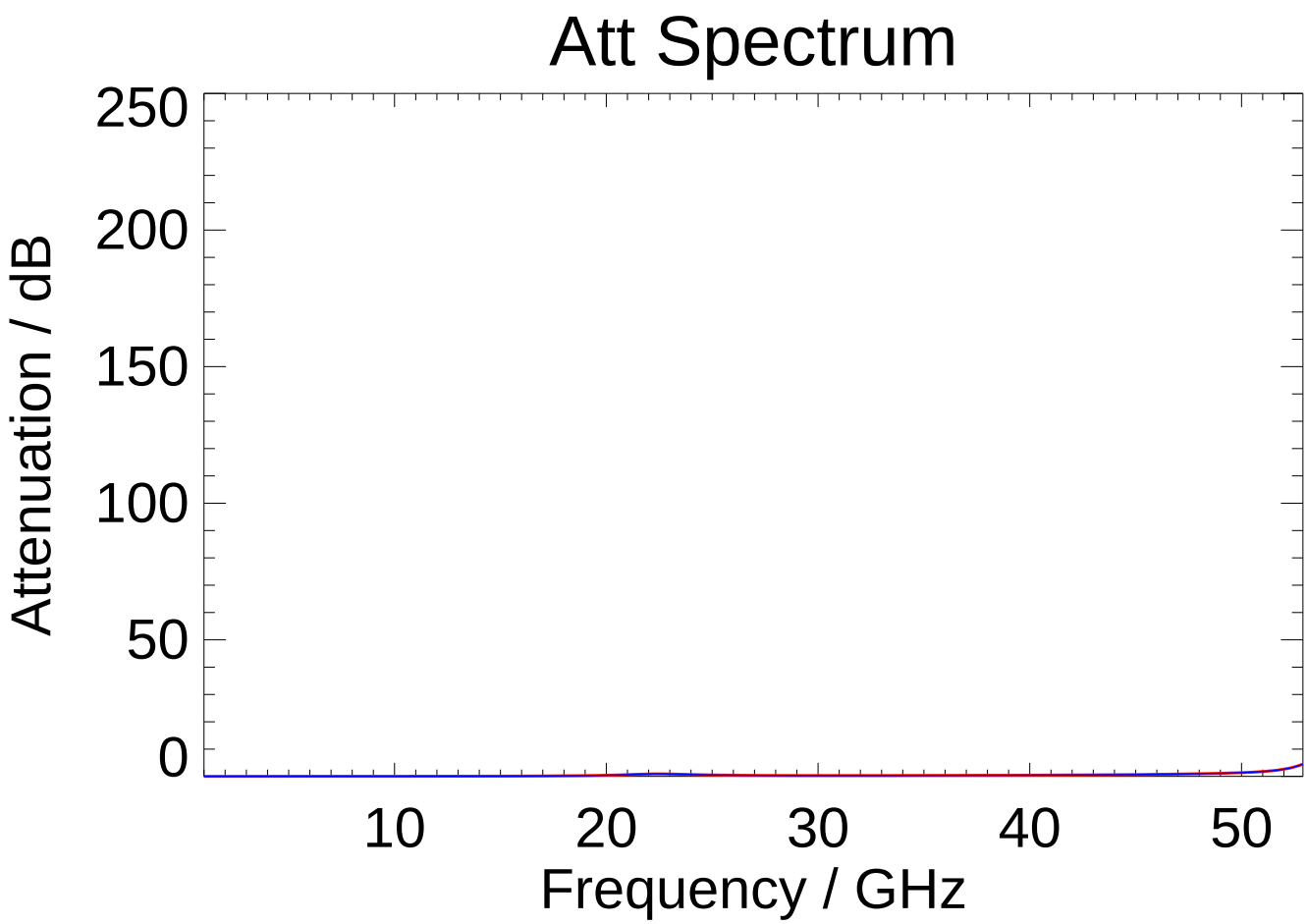
Frequency / GHz


Att Spectrum
Attenuation / dB
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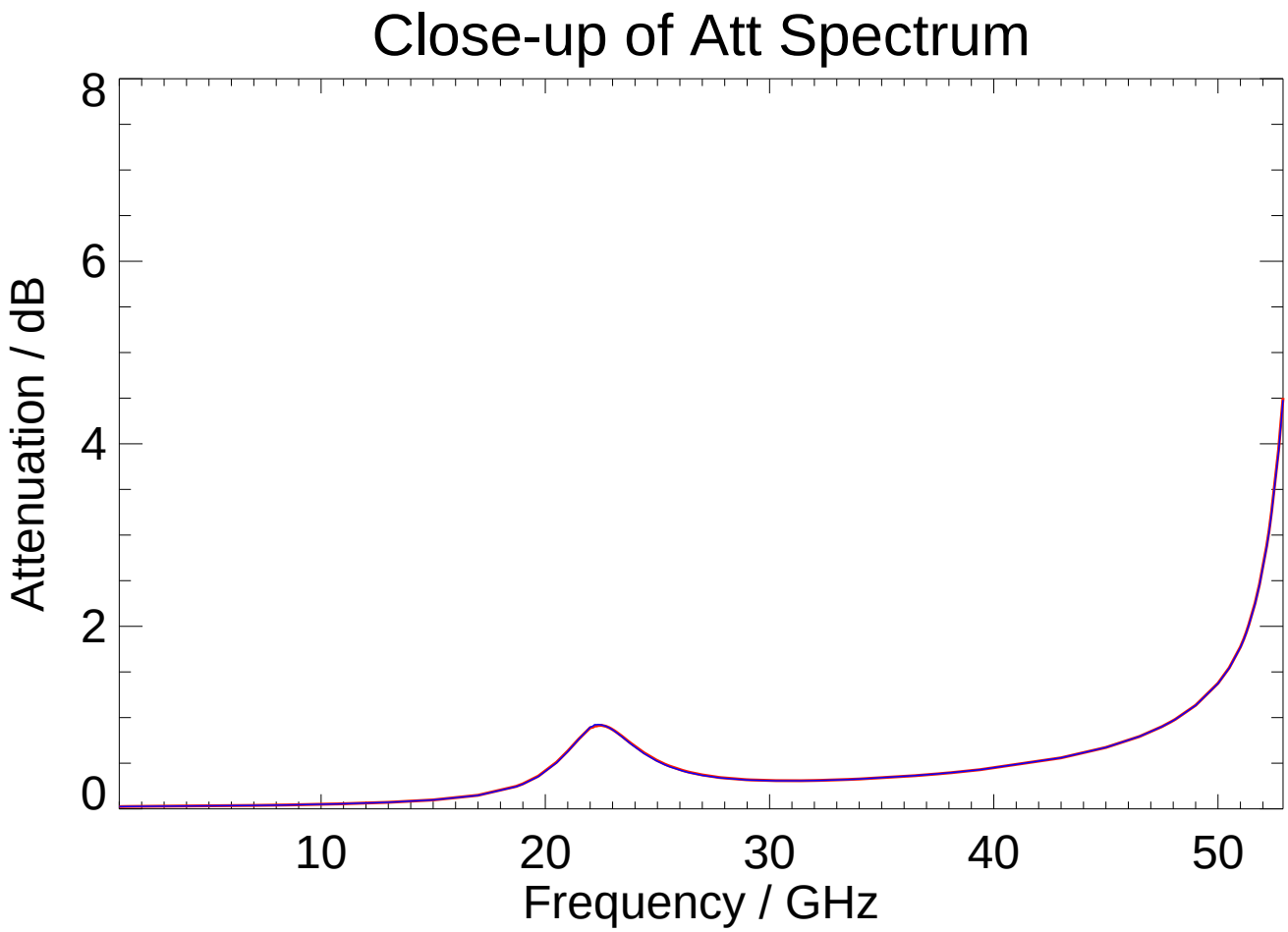
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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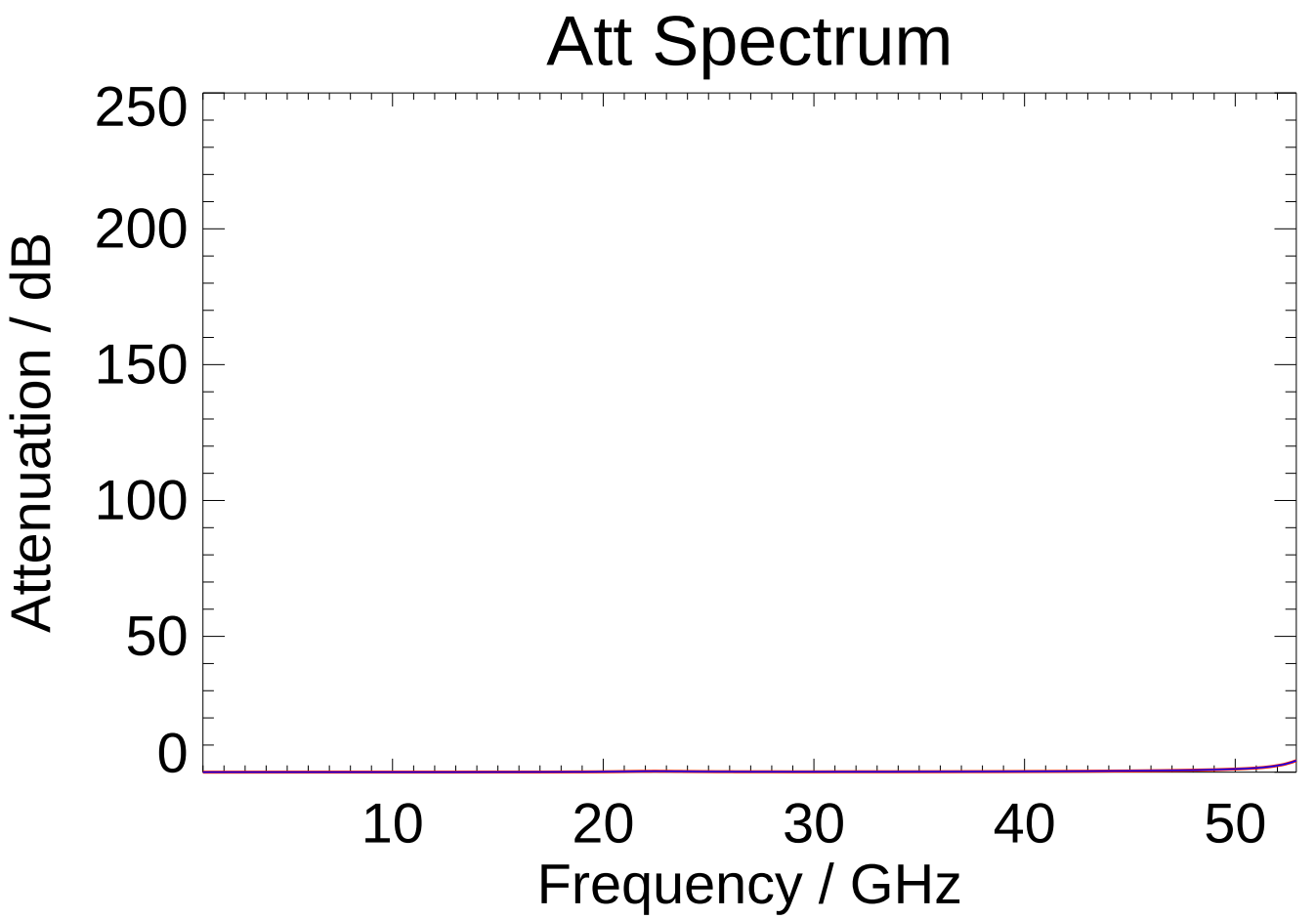
Frequency / GHz


Att Spectrum
Attenuation / dB
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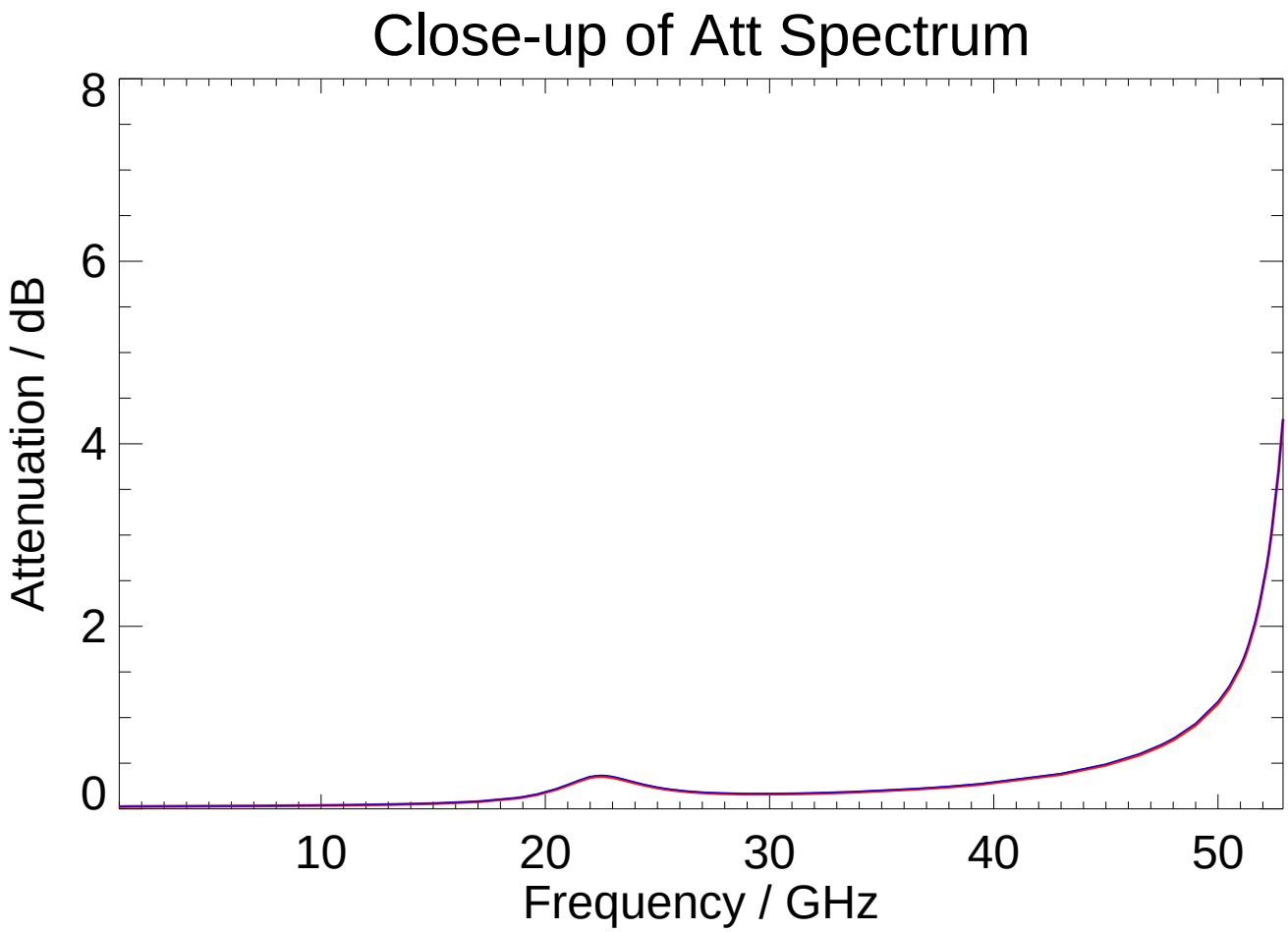
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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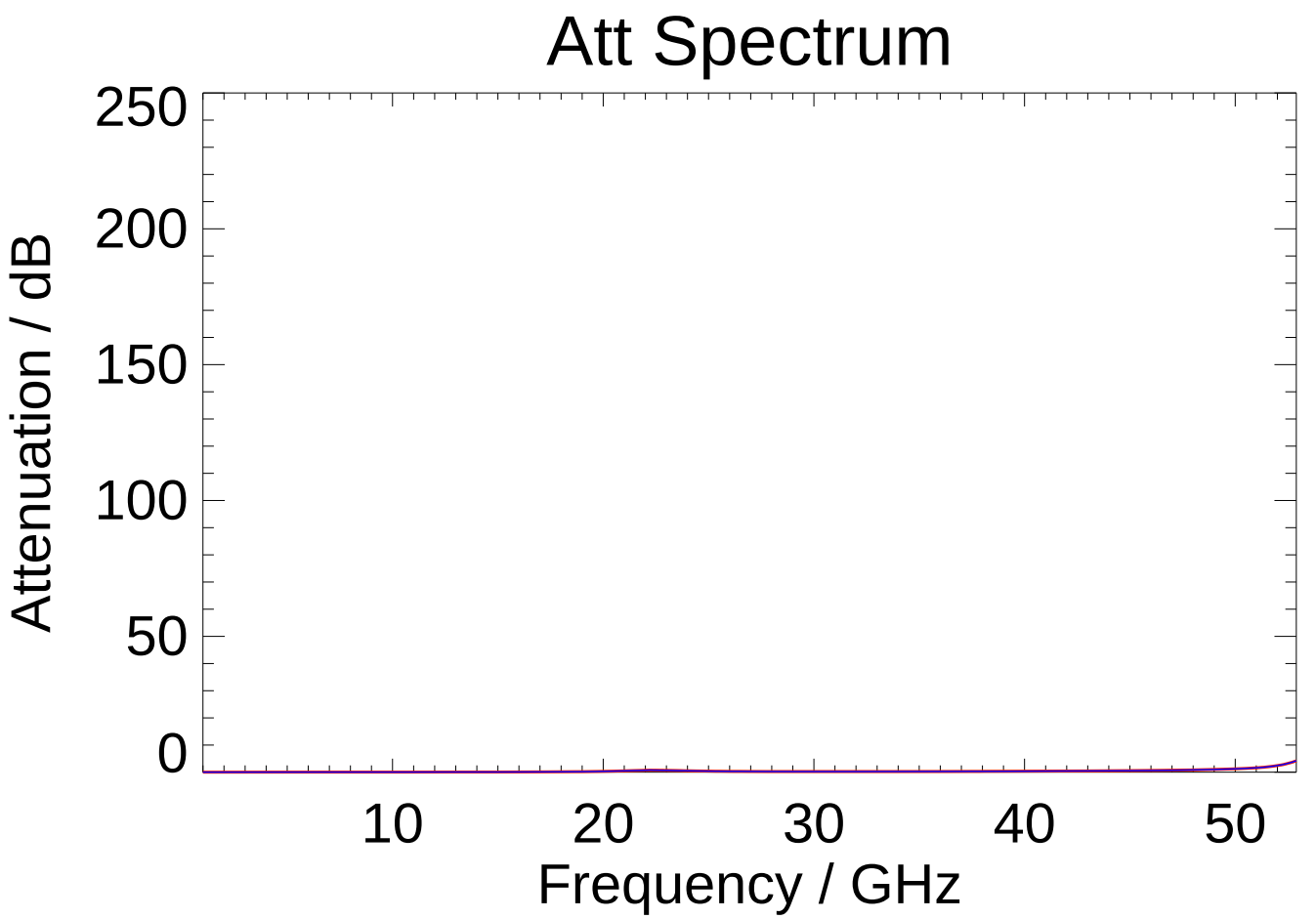
Frequency / GHz


Att Spectrum
Attenuation / dB
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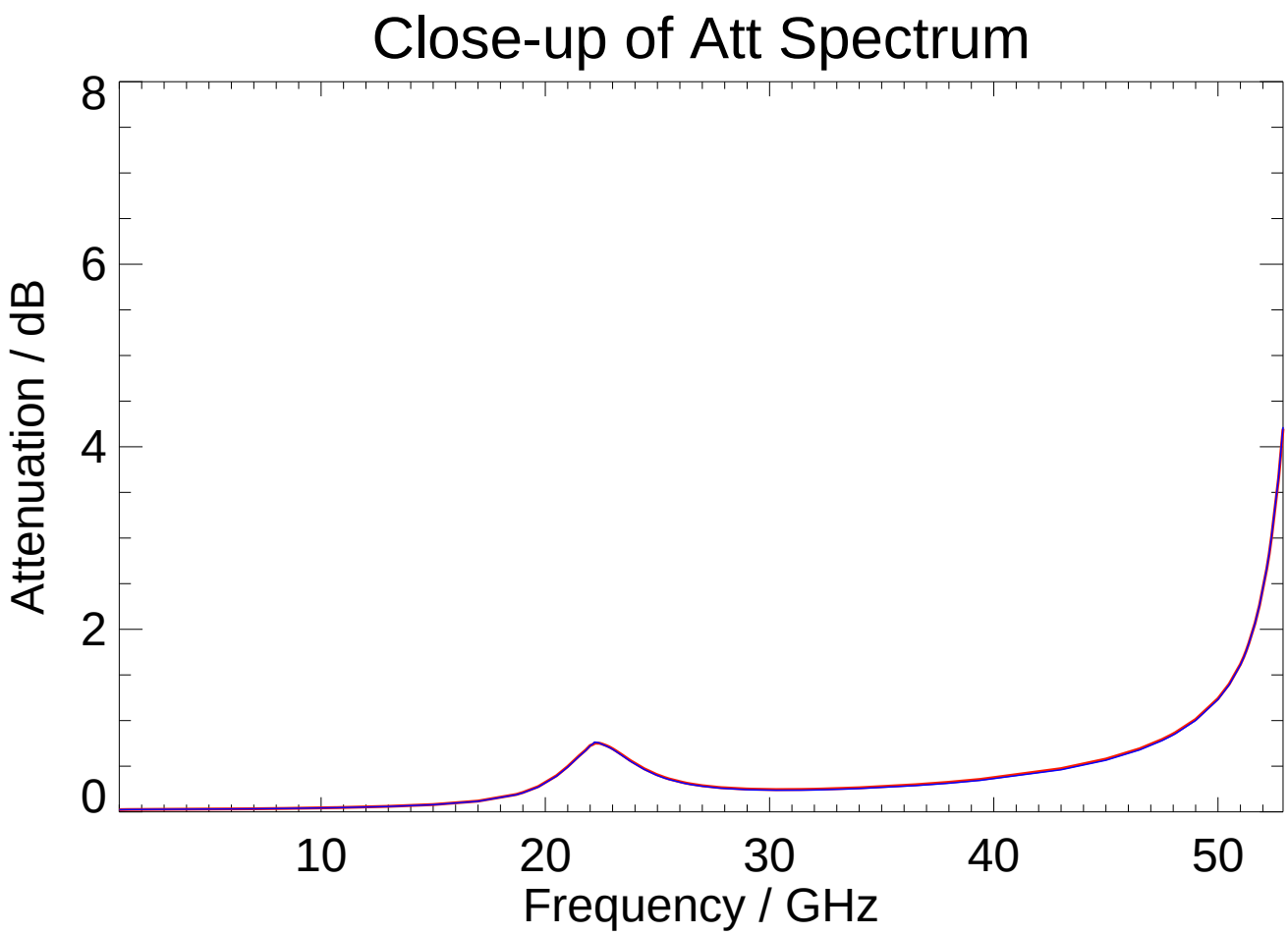
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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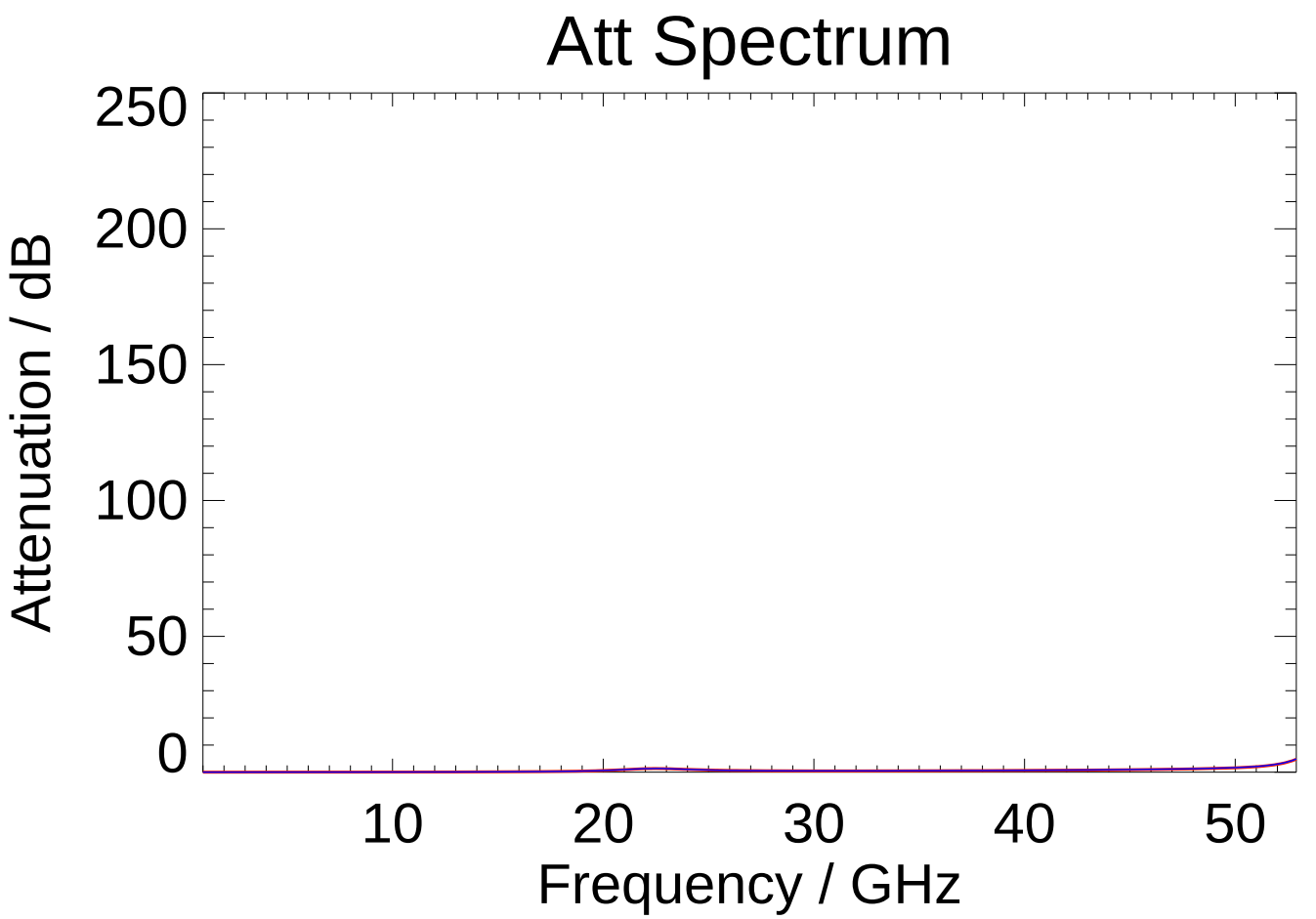
Frequency / GHz


Att Spectrum
Attenuation / dB
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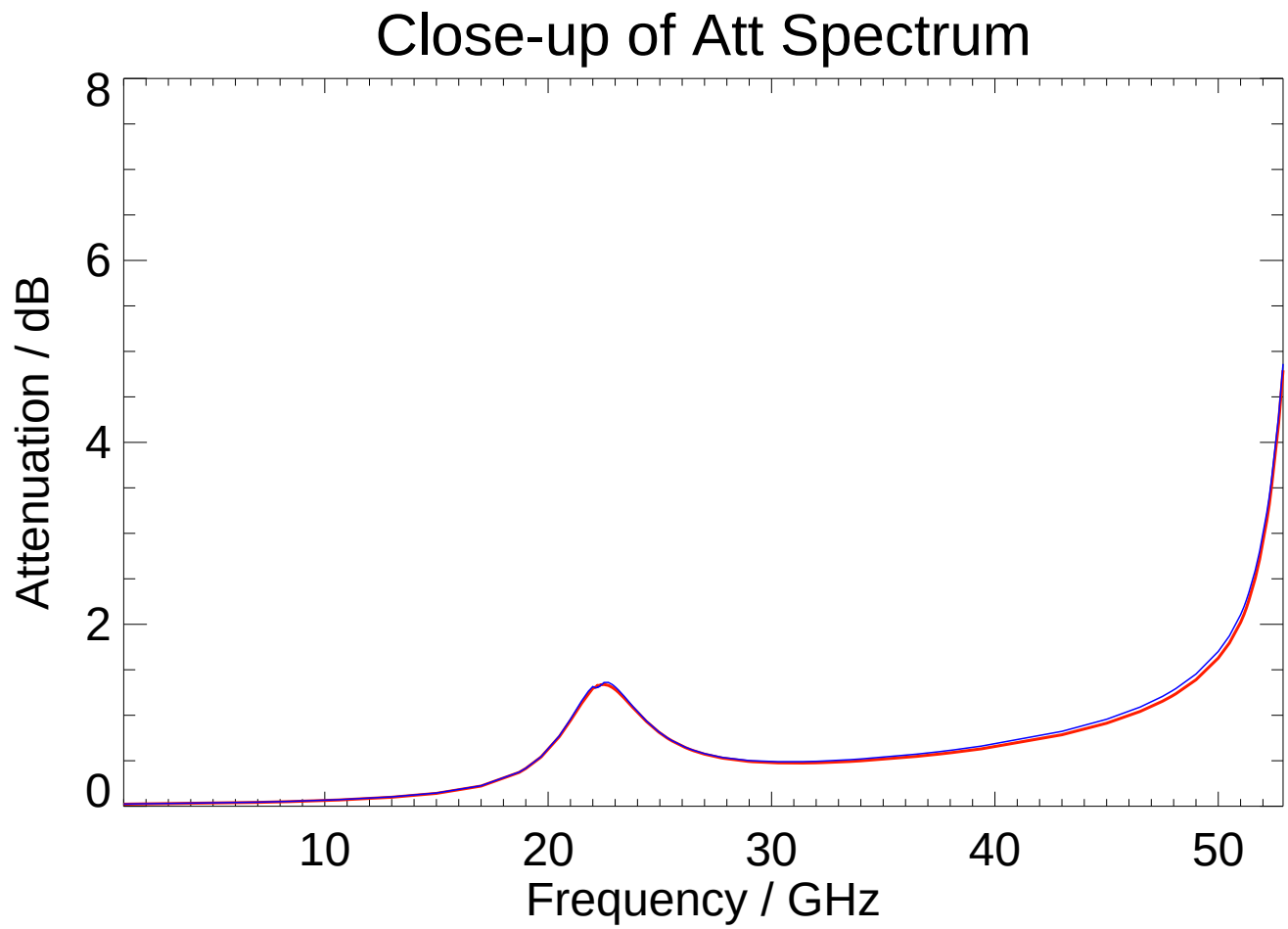
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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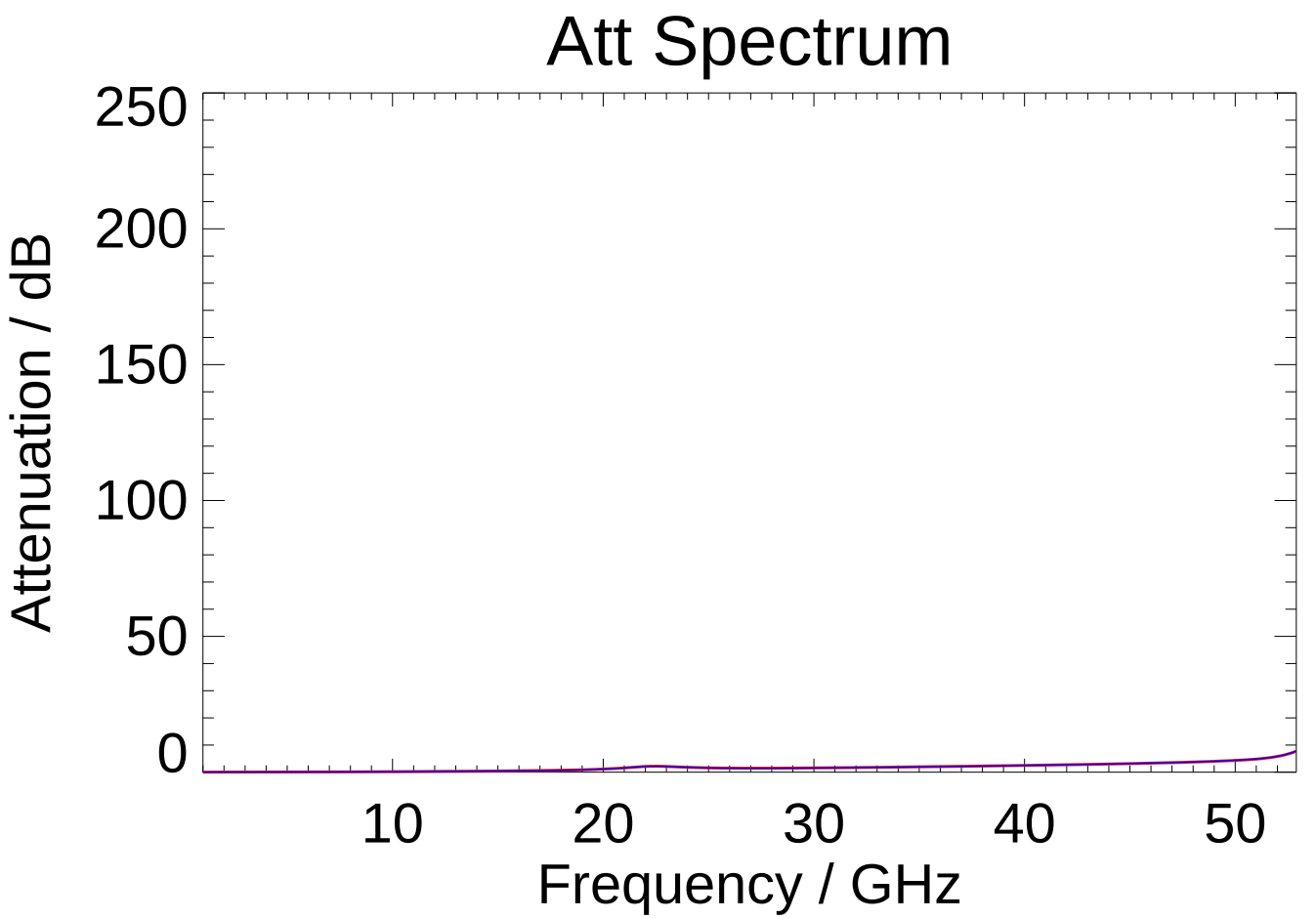
Frequency / GHz


Att Spectrum
Attenuation / dB
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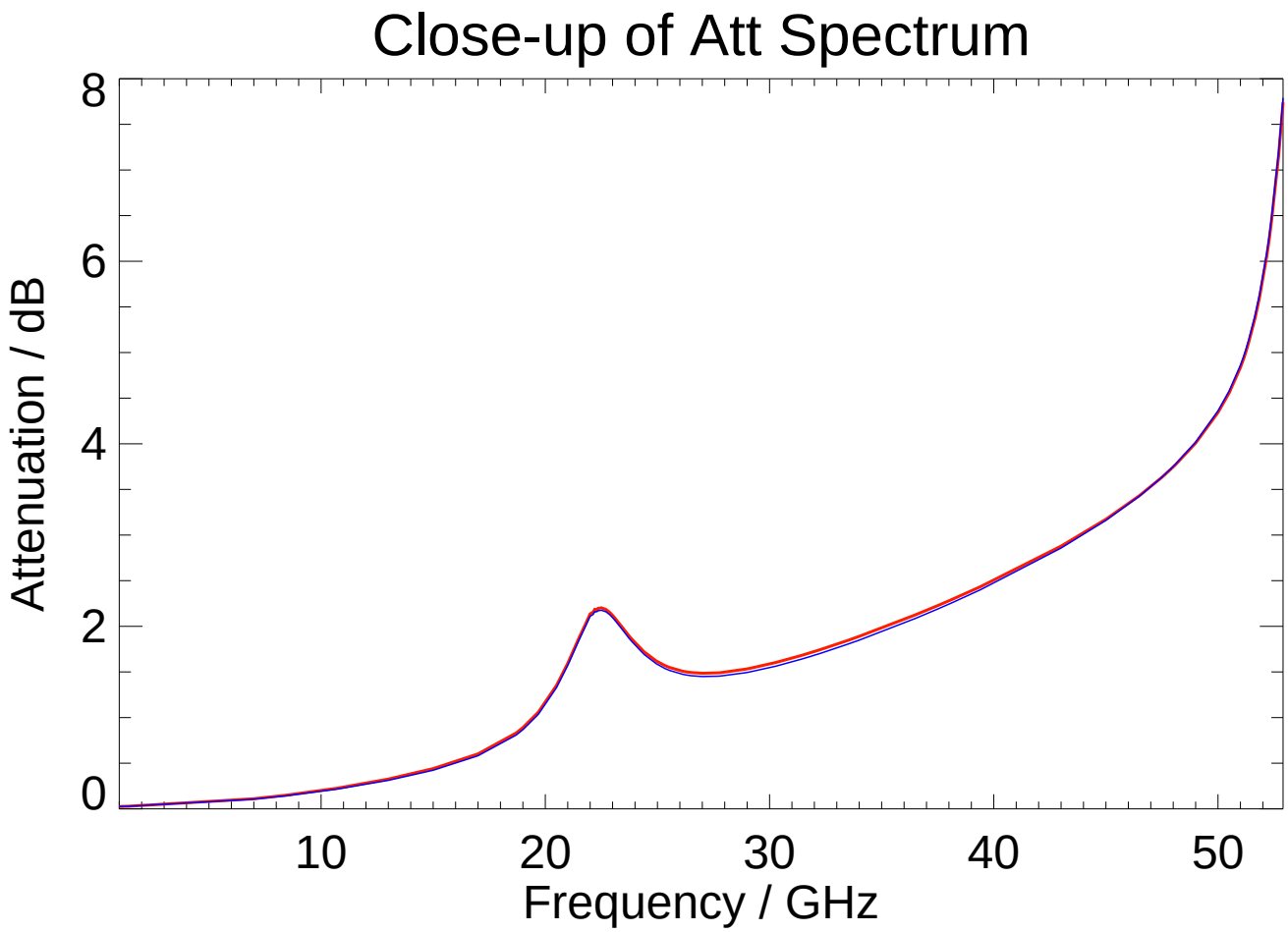
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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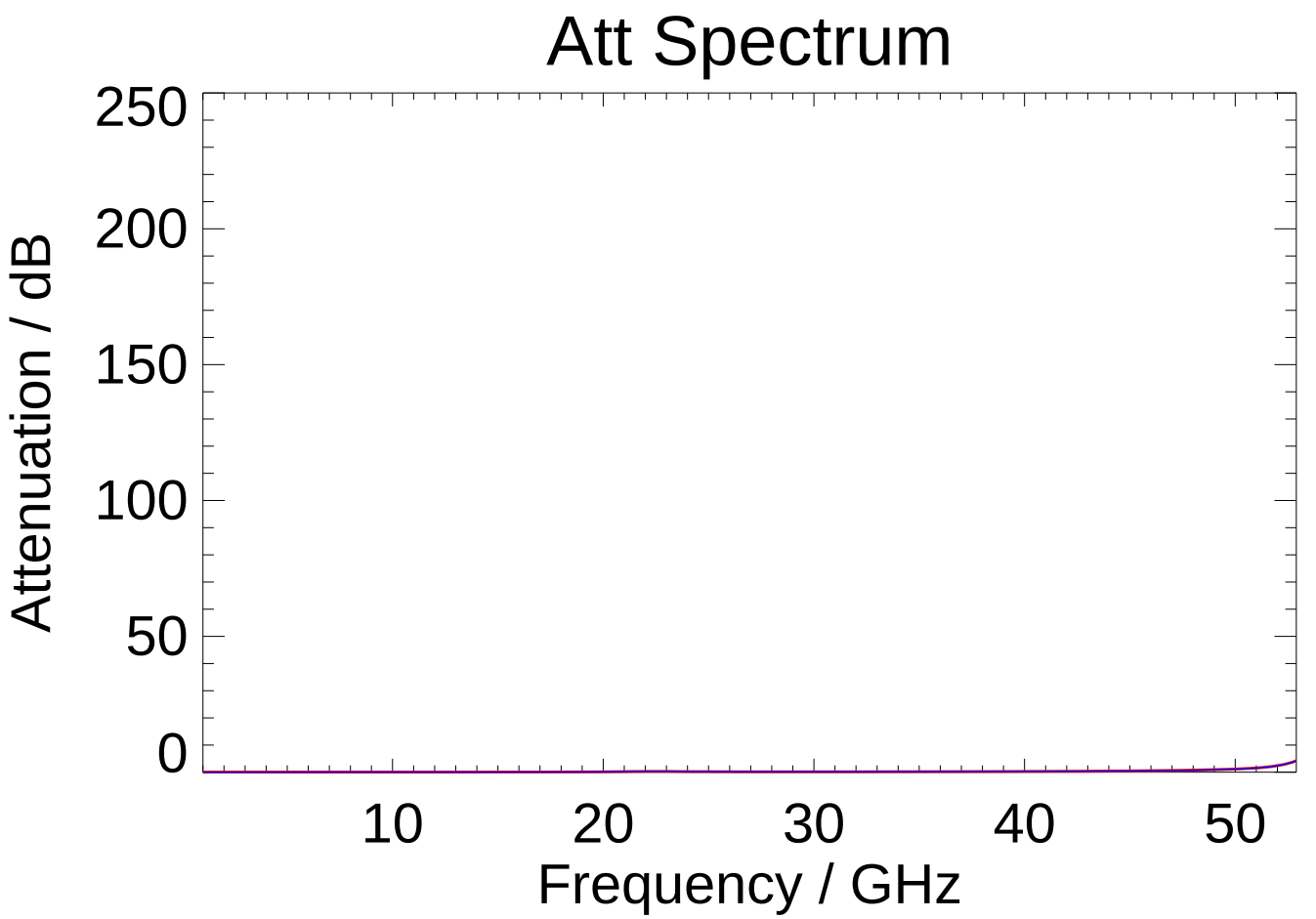
Frequency / GHz


Att Spectrum
Attenuation / dB
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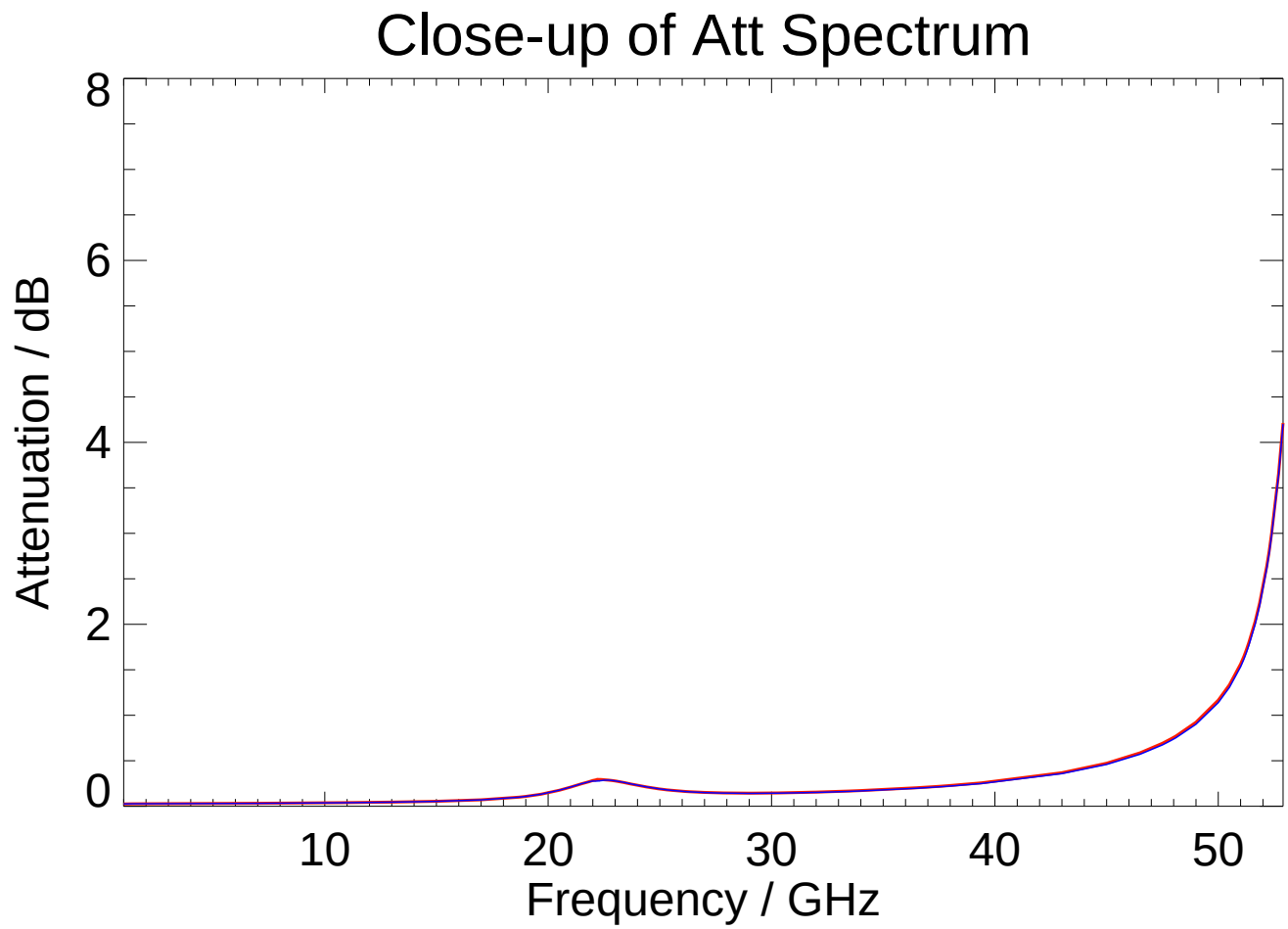
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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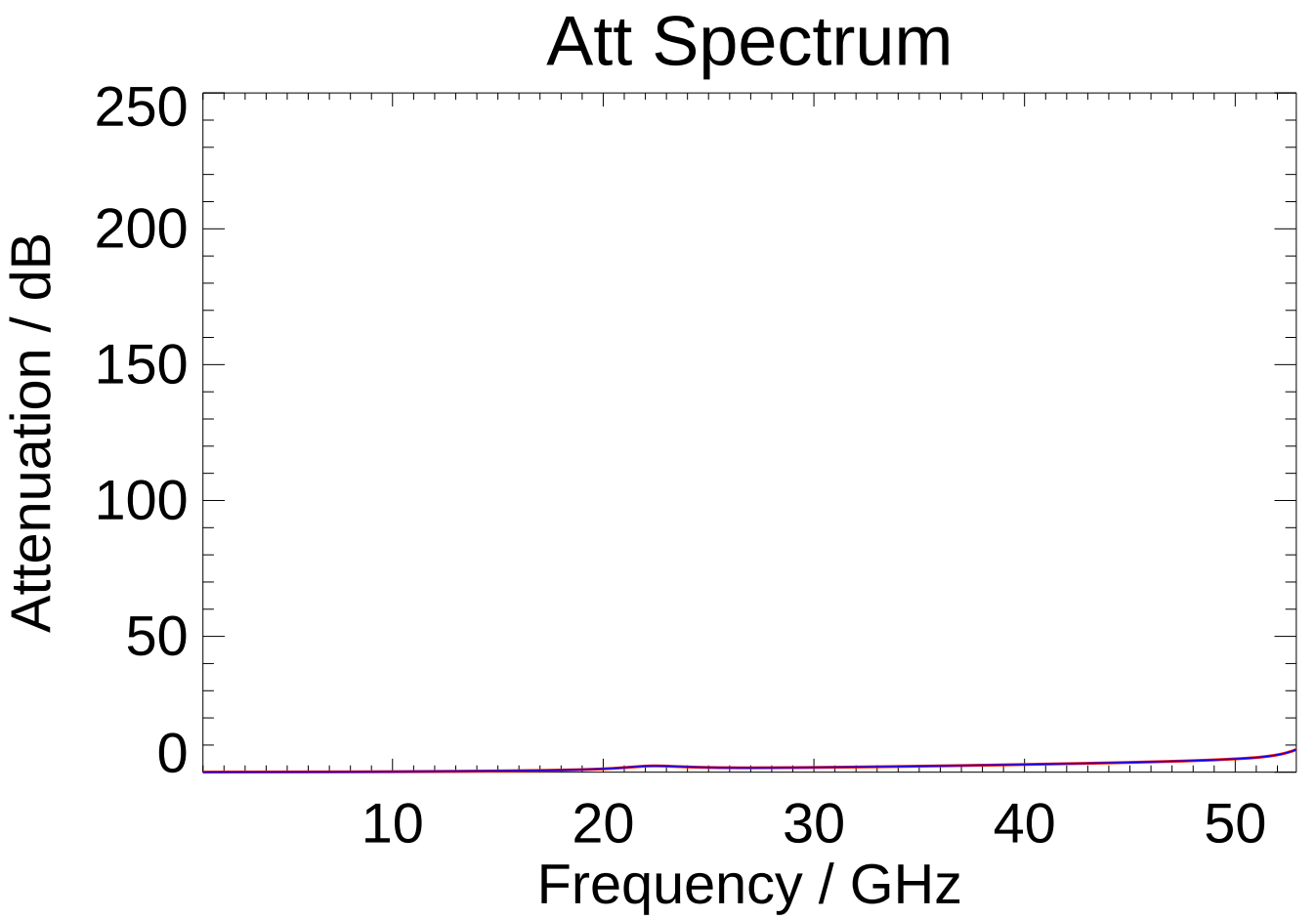
Frequency / GHz


Att Spectrum
Attenuation / dB
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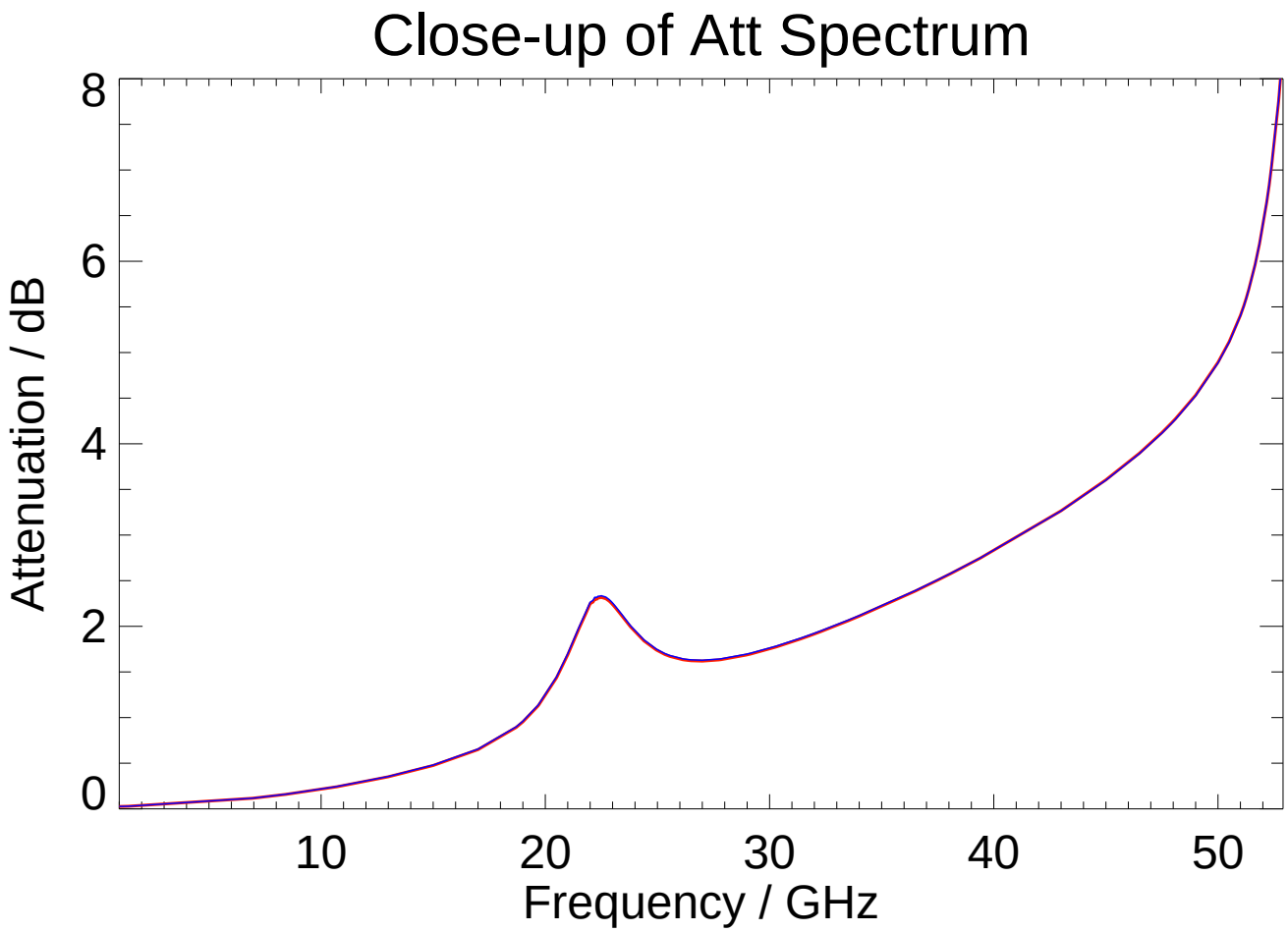
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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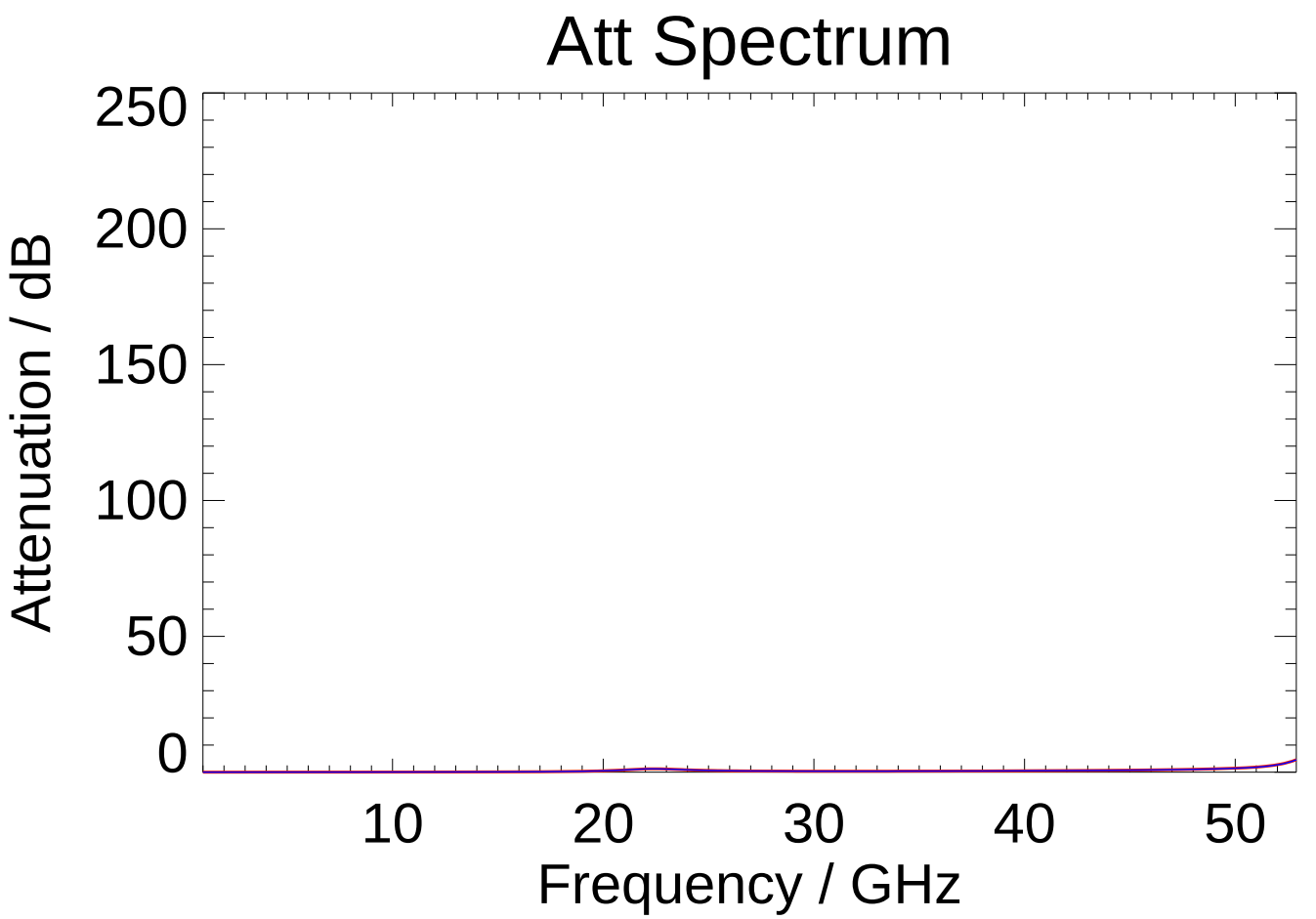
Frequency / GHz


Att Spectrum
Attenuation / dB
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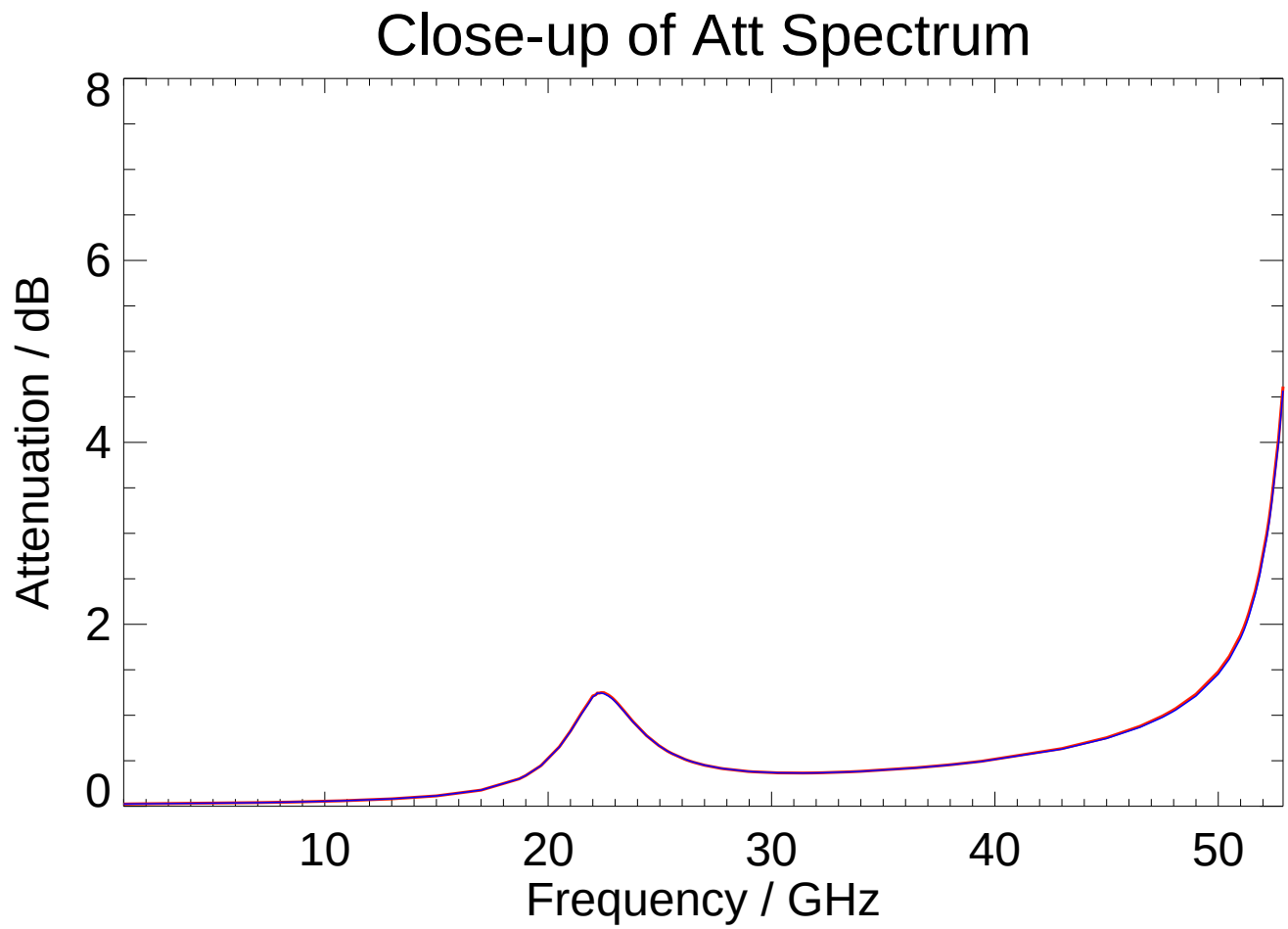
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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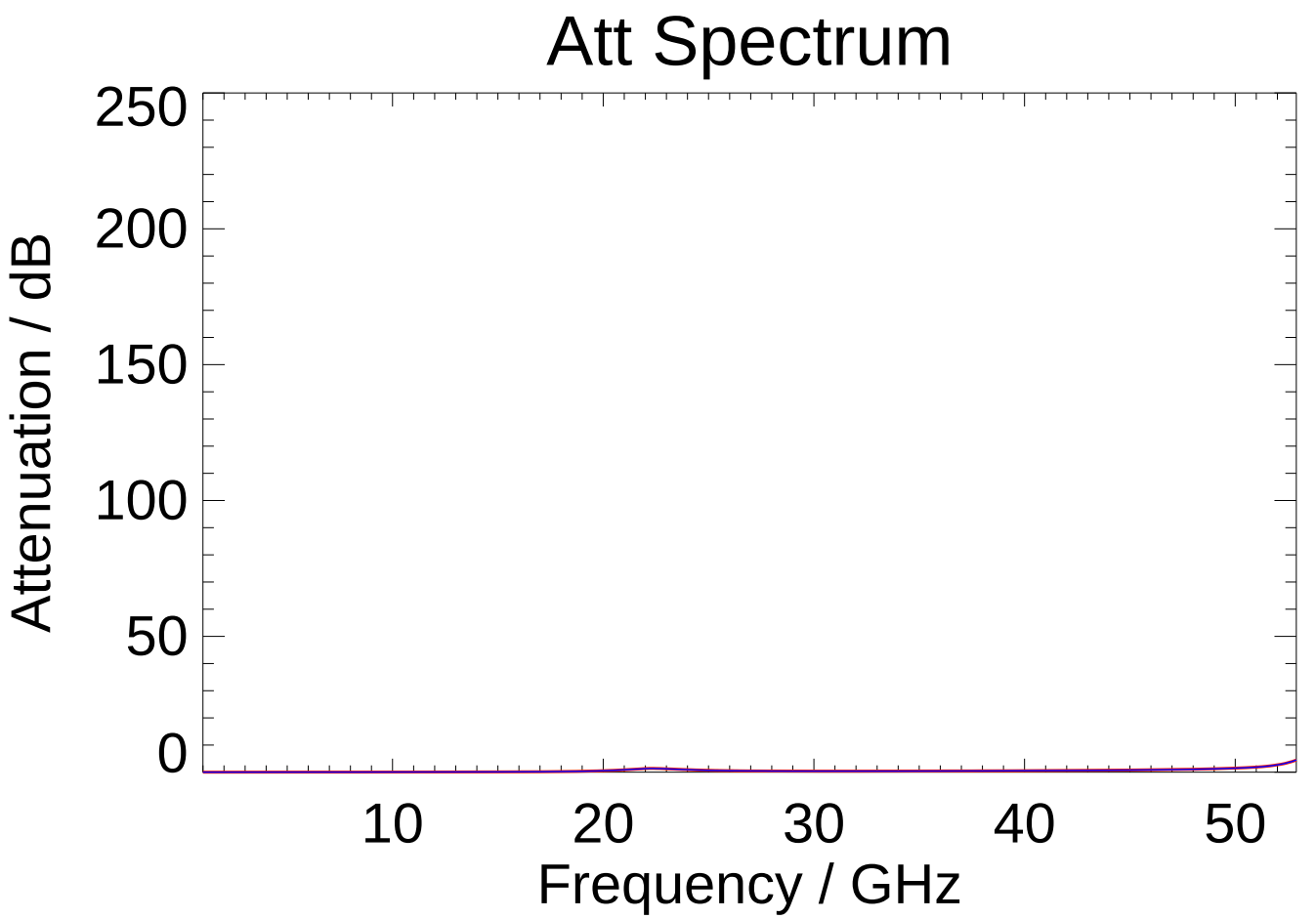
Frequency / GHz


Att Spectrum
Attenuation / dB
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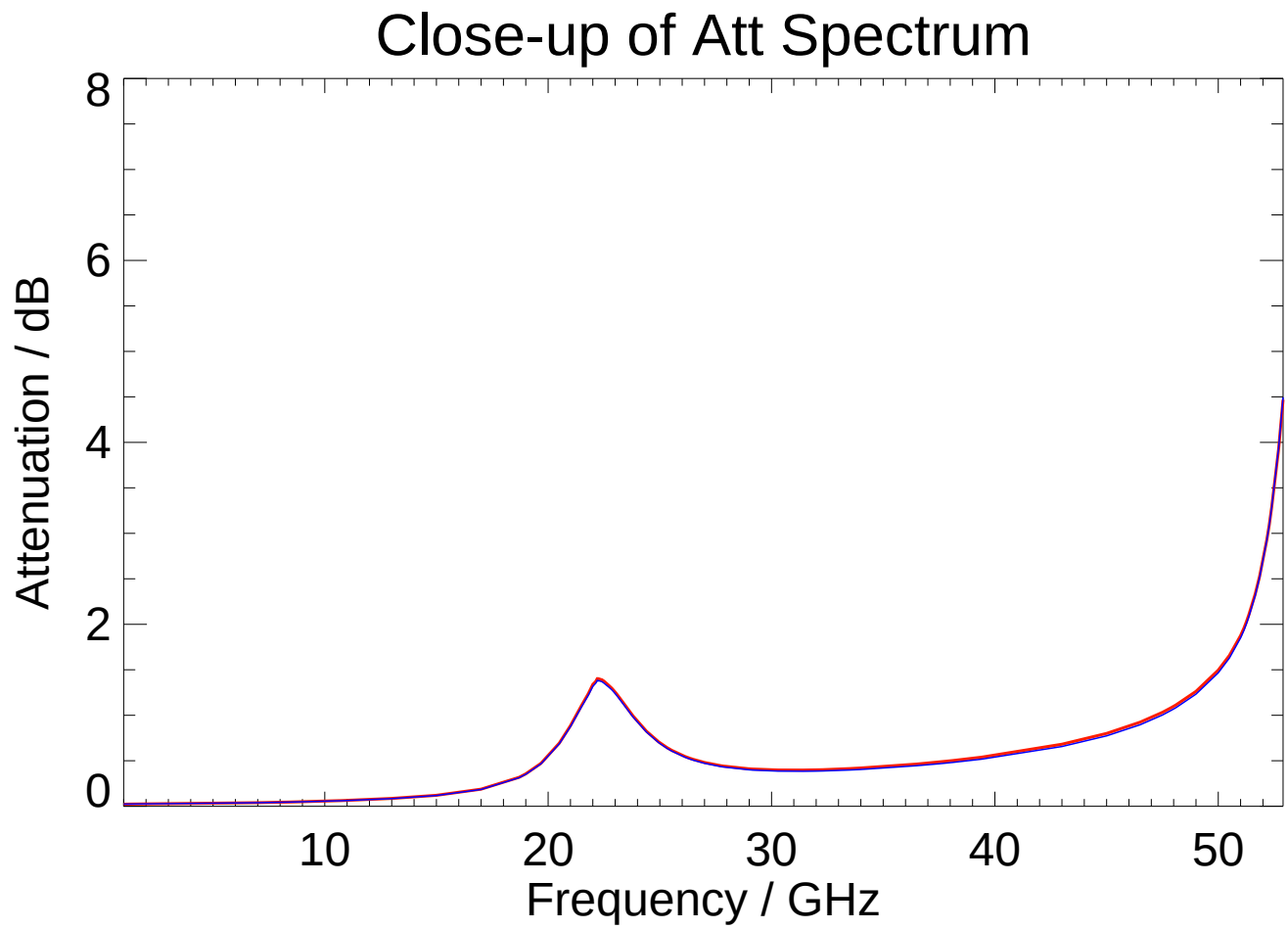
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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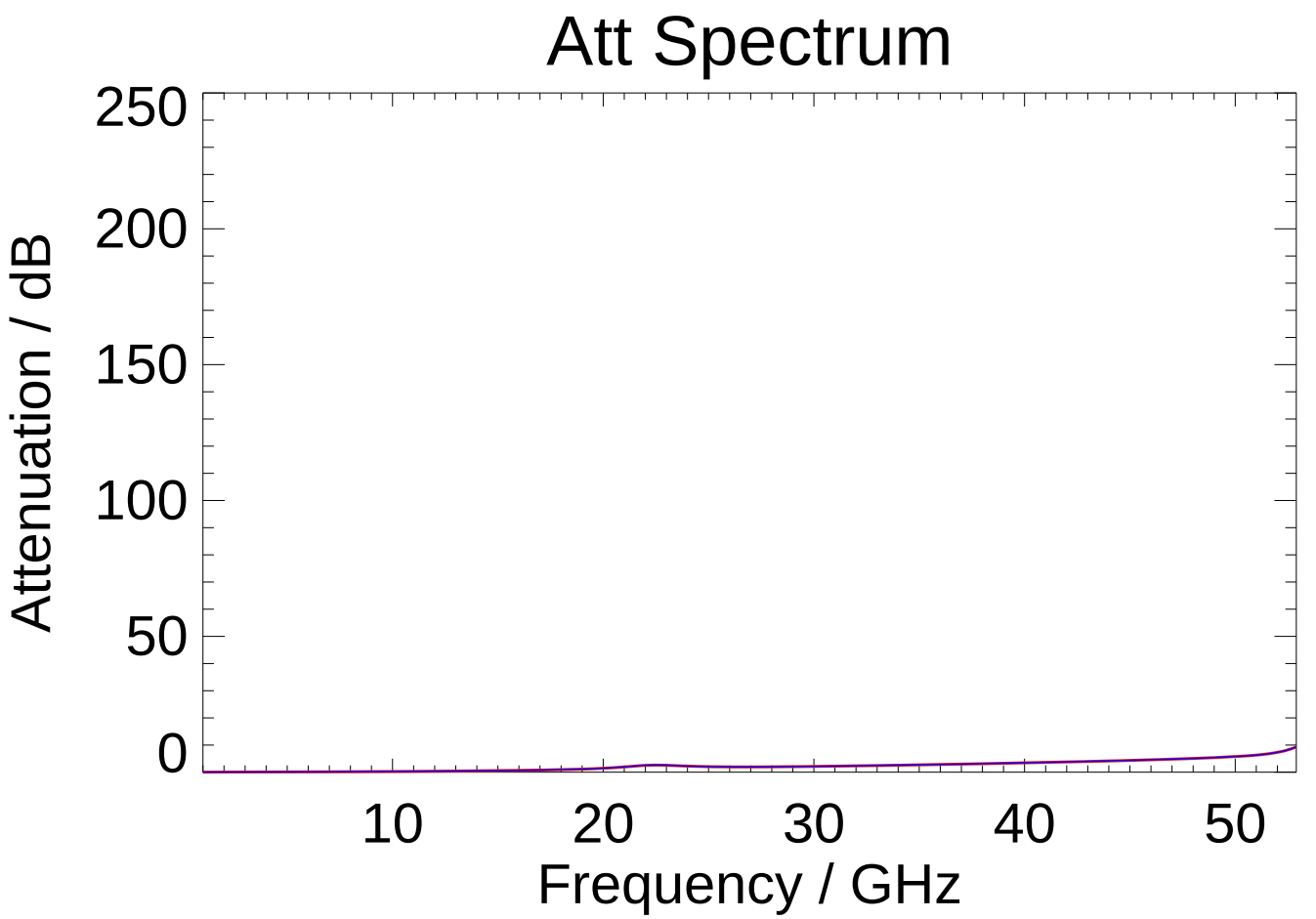
Frequency / GHz


Att Spectrum
Attenuation / dB
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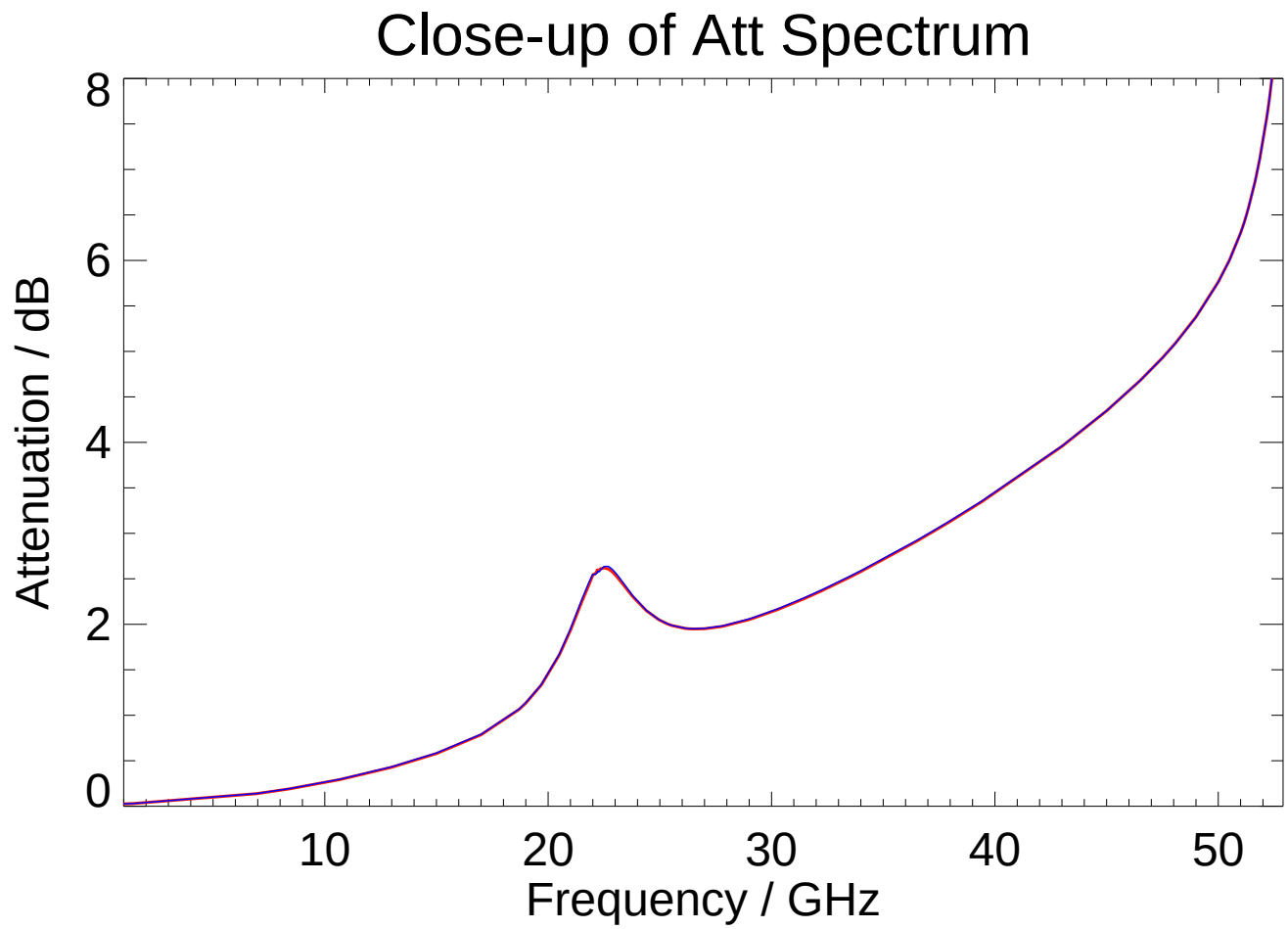
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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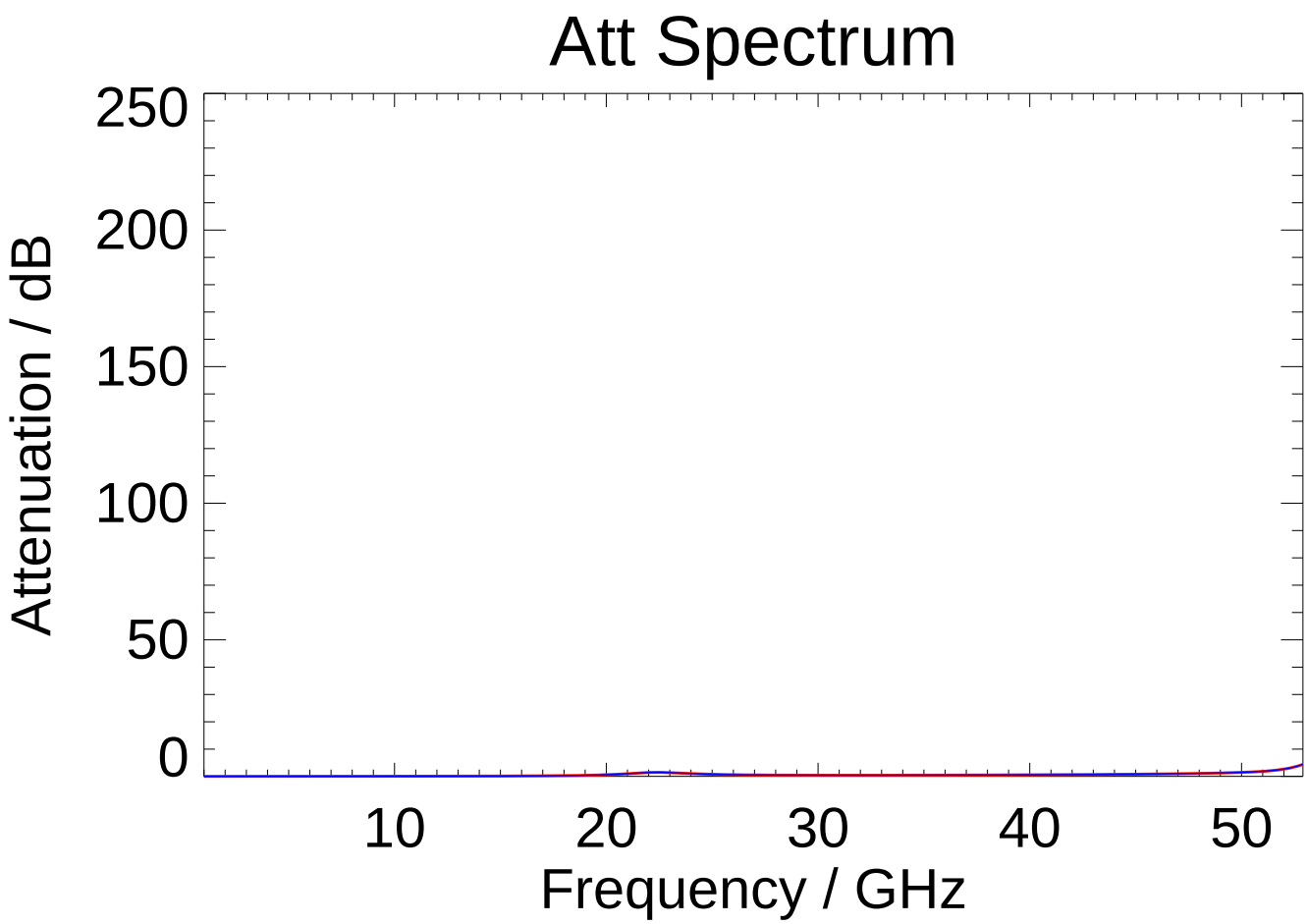
Frequency / GHz


Att Spectrum
Attenuation / dB
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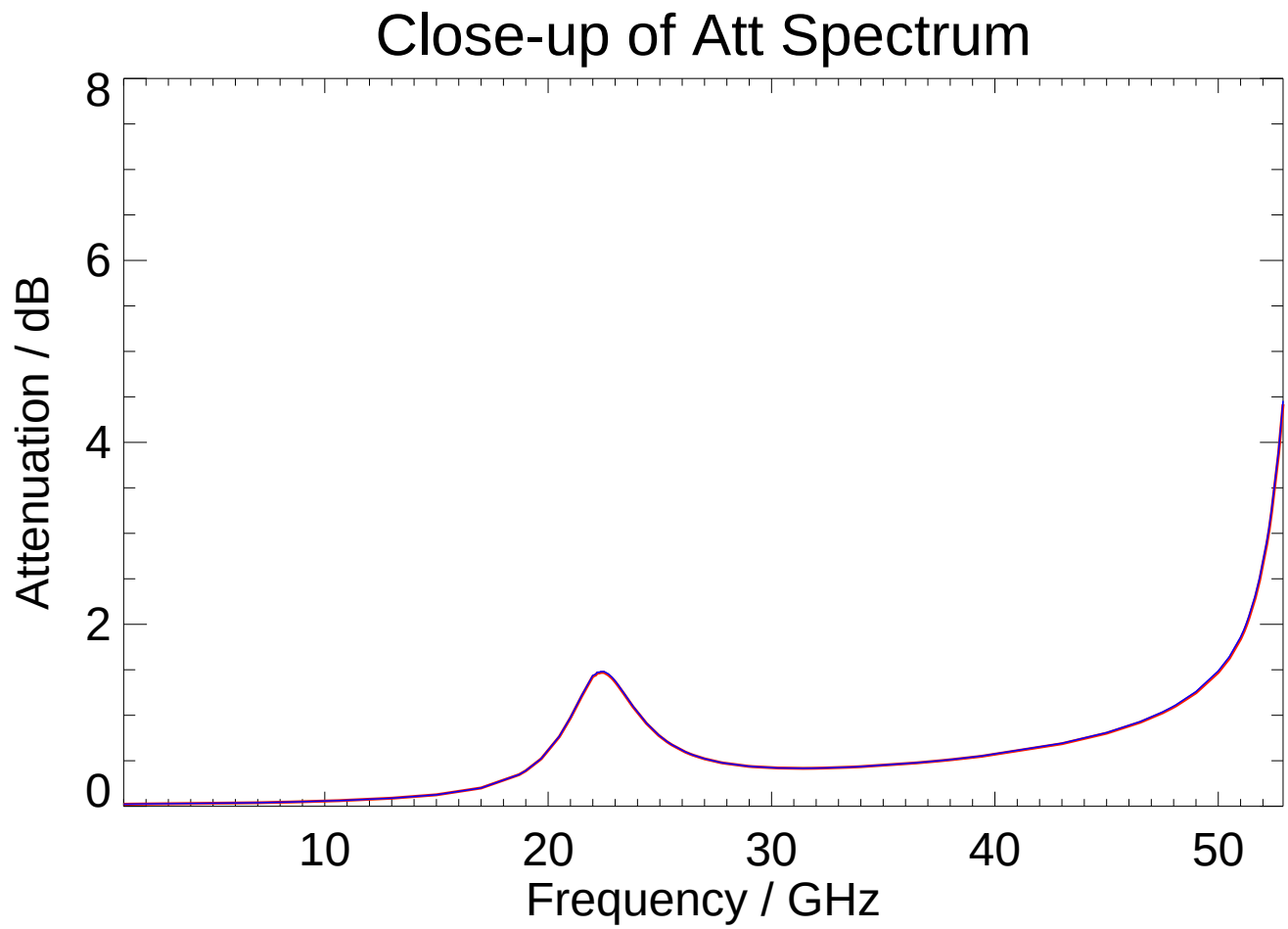
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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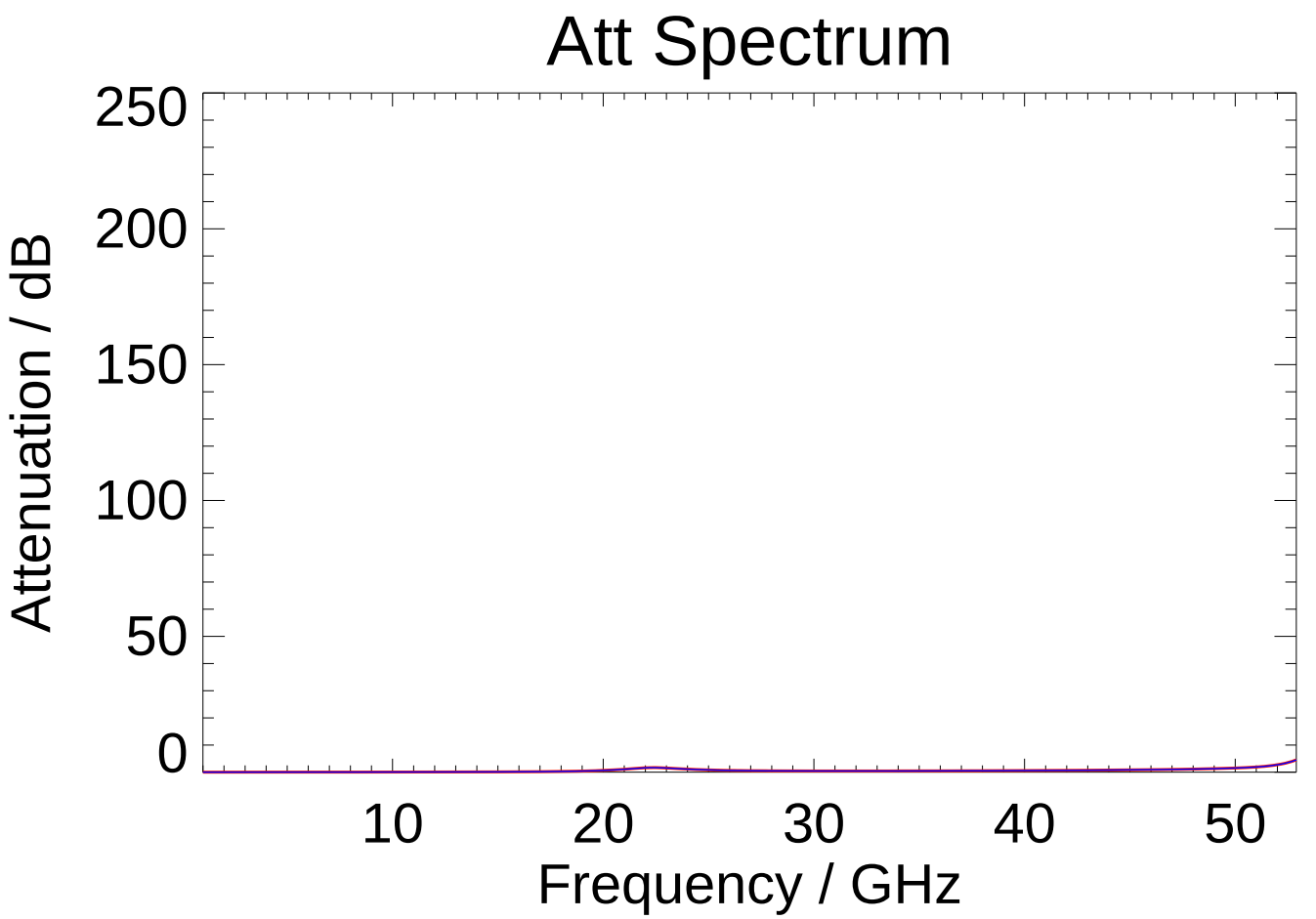
Frequency / GHz


Att Spectrum
Attenuation / dB
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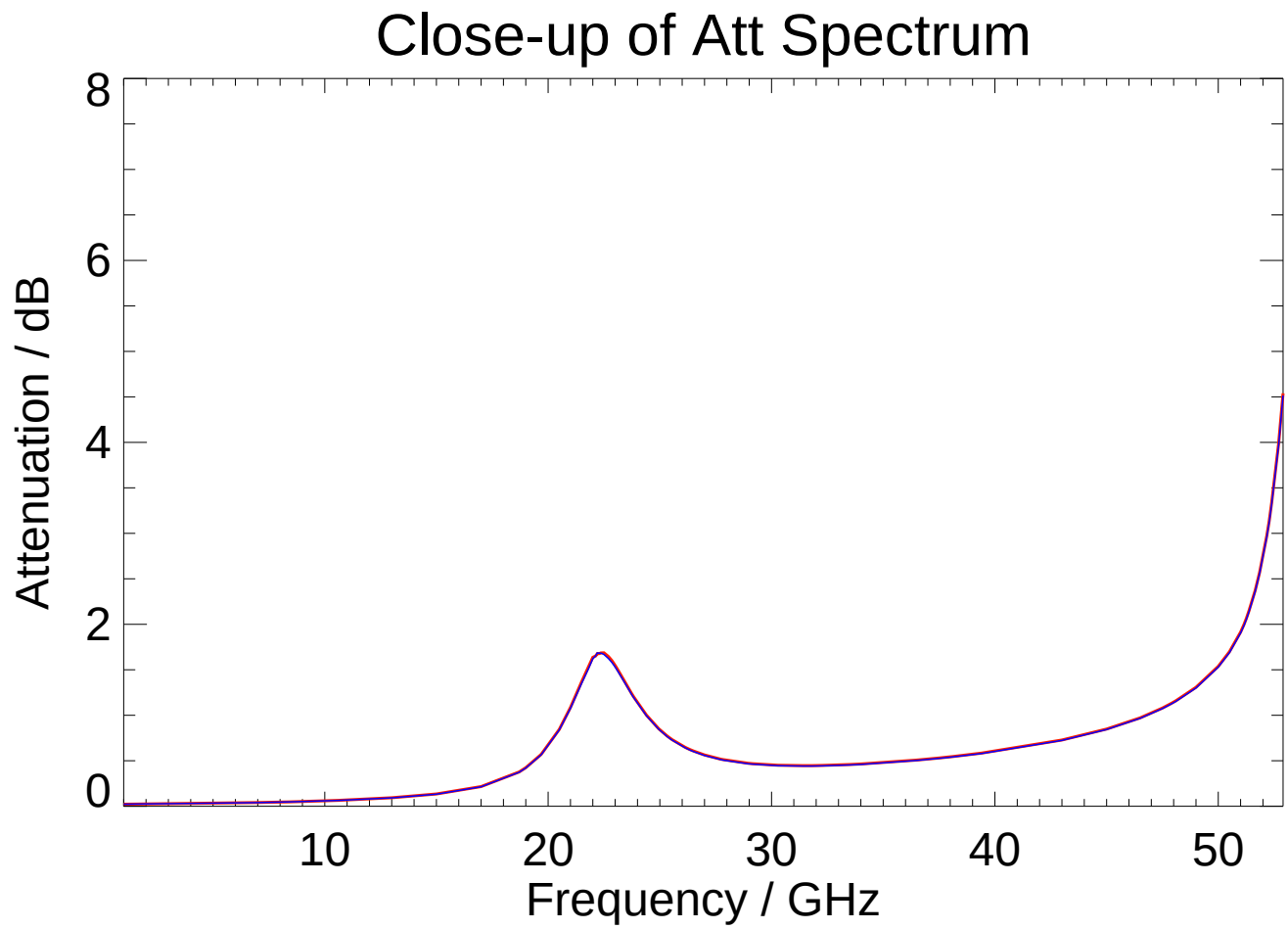
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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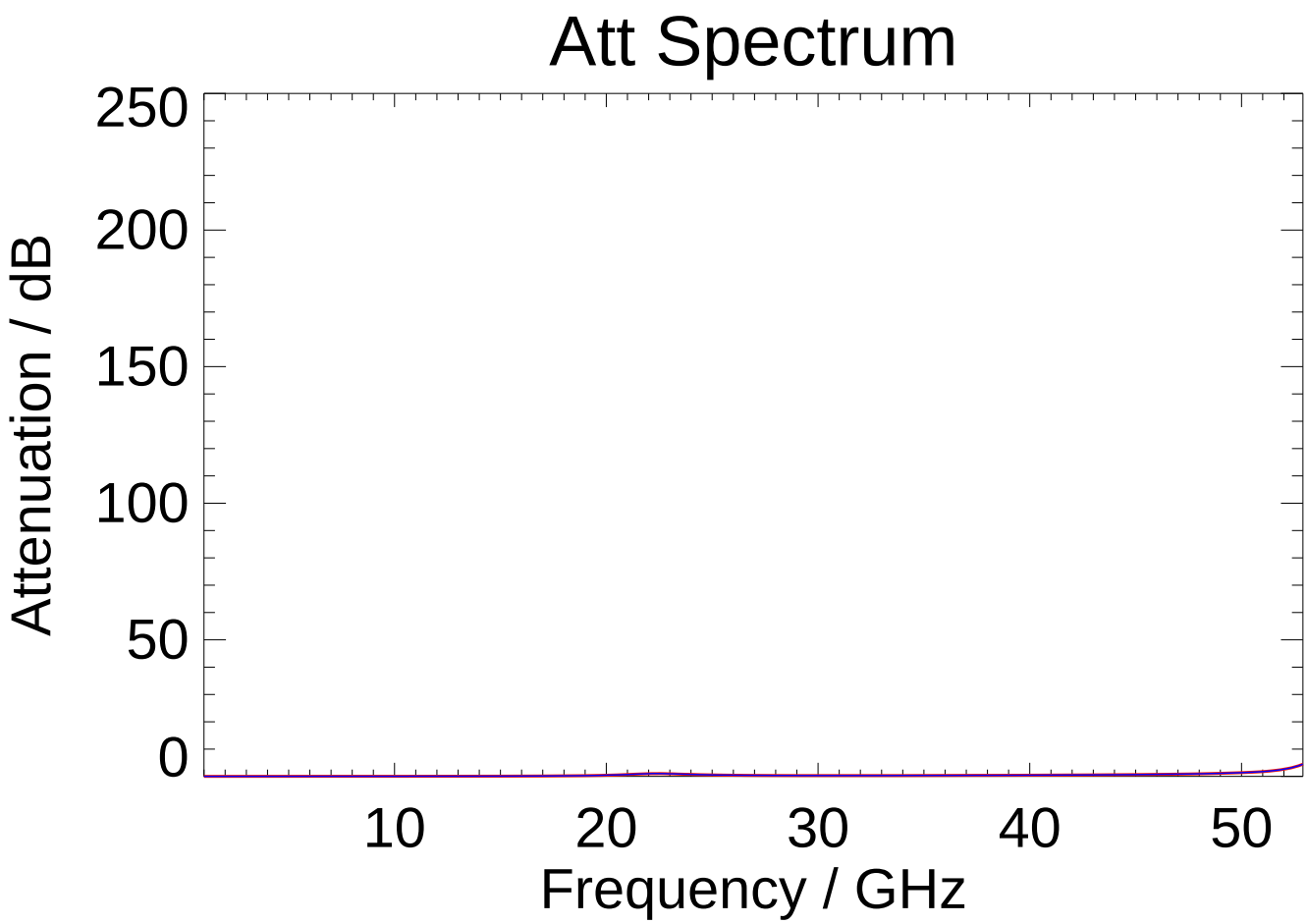
Frequency / GHz


Att Spectrum
Attenuation / dB
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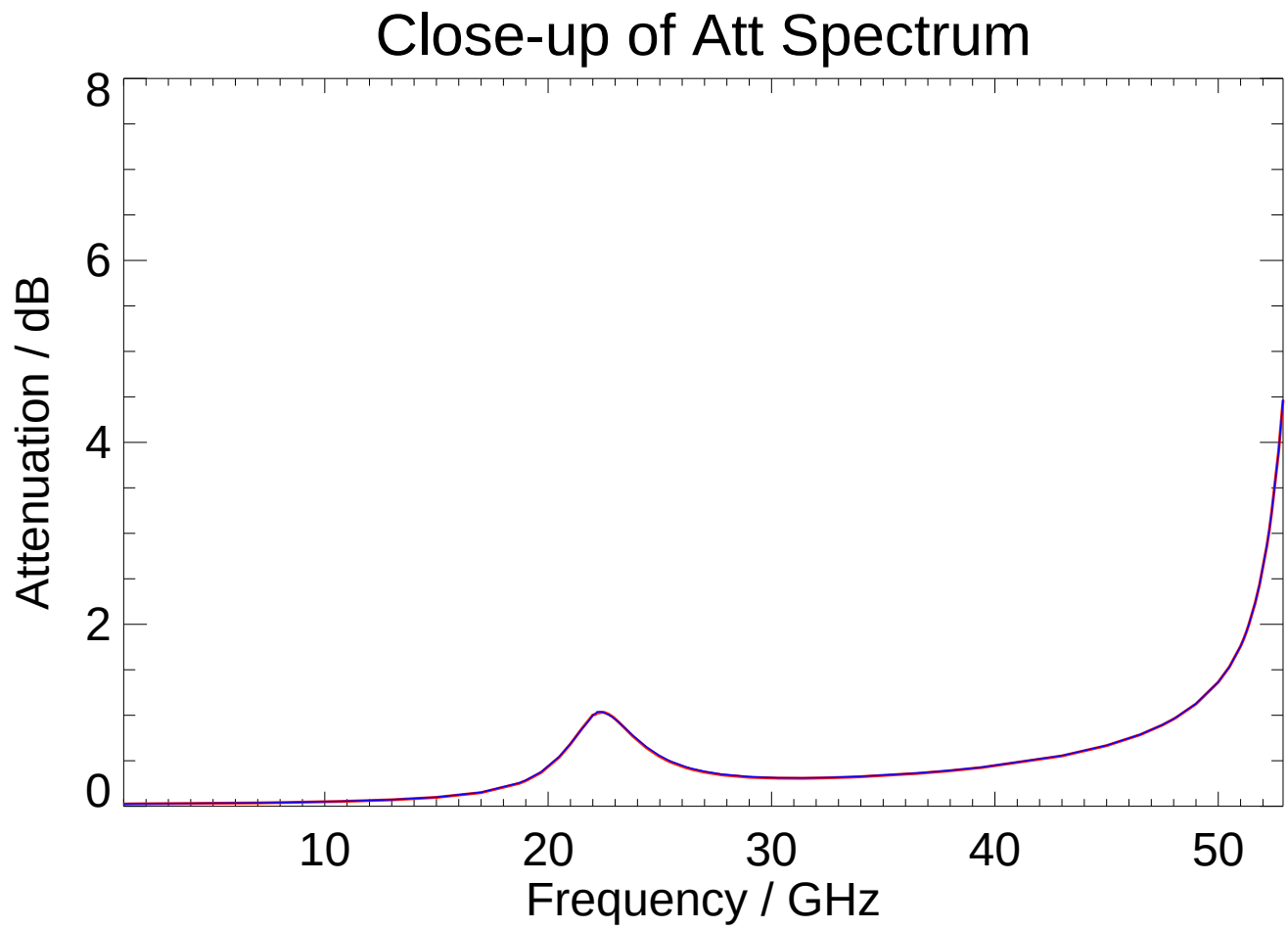
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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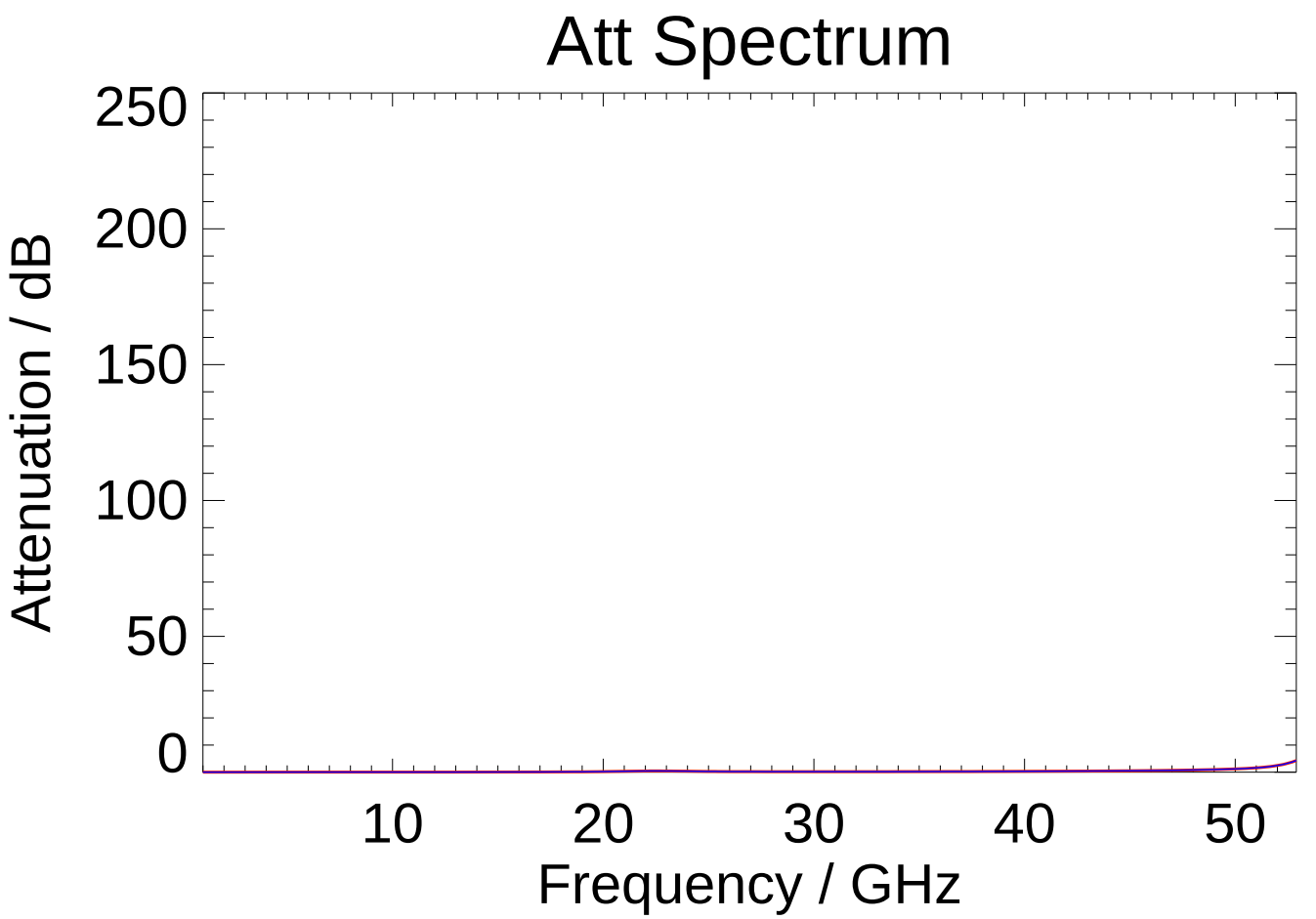
Frequency / GHz


Att Spectrum
Attenuation / dB
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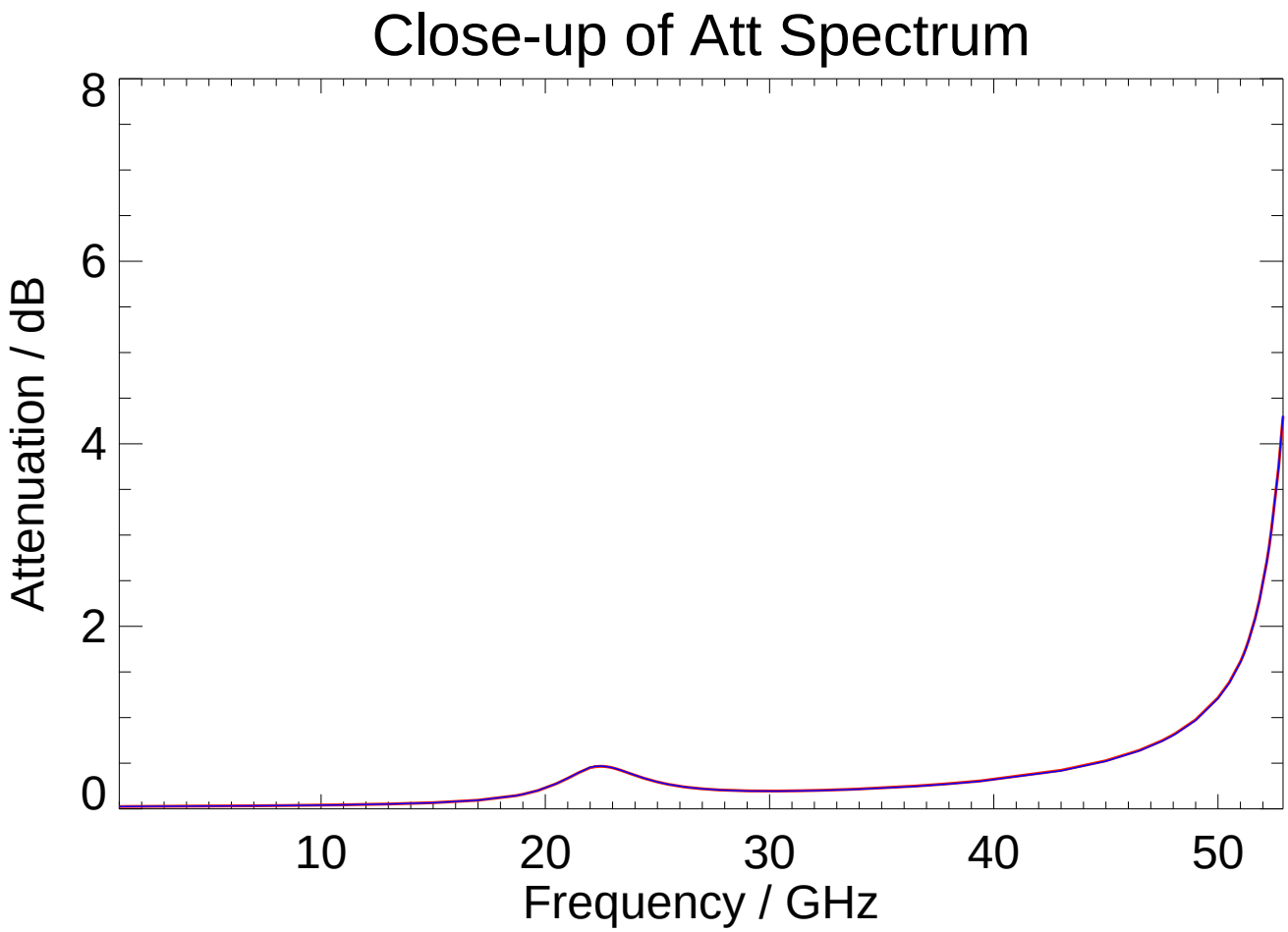
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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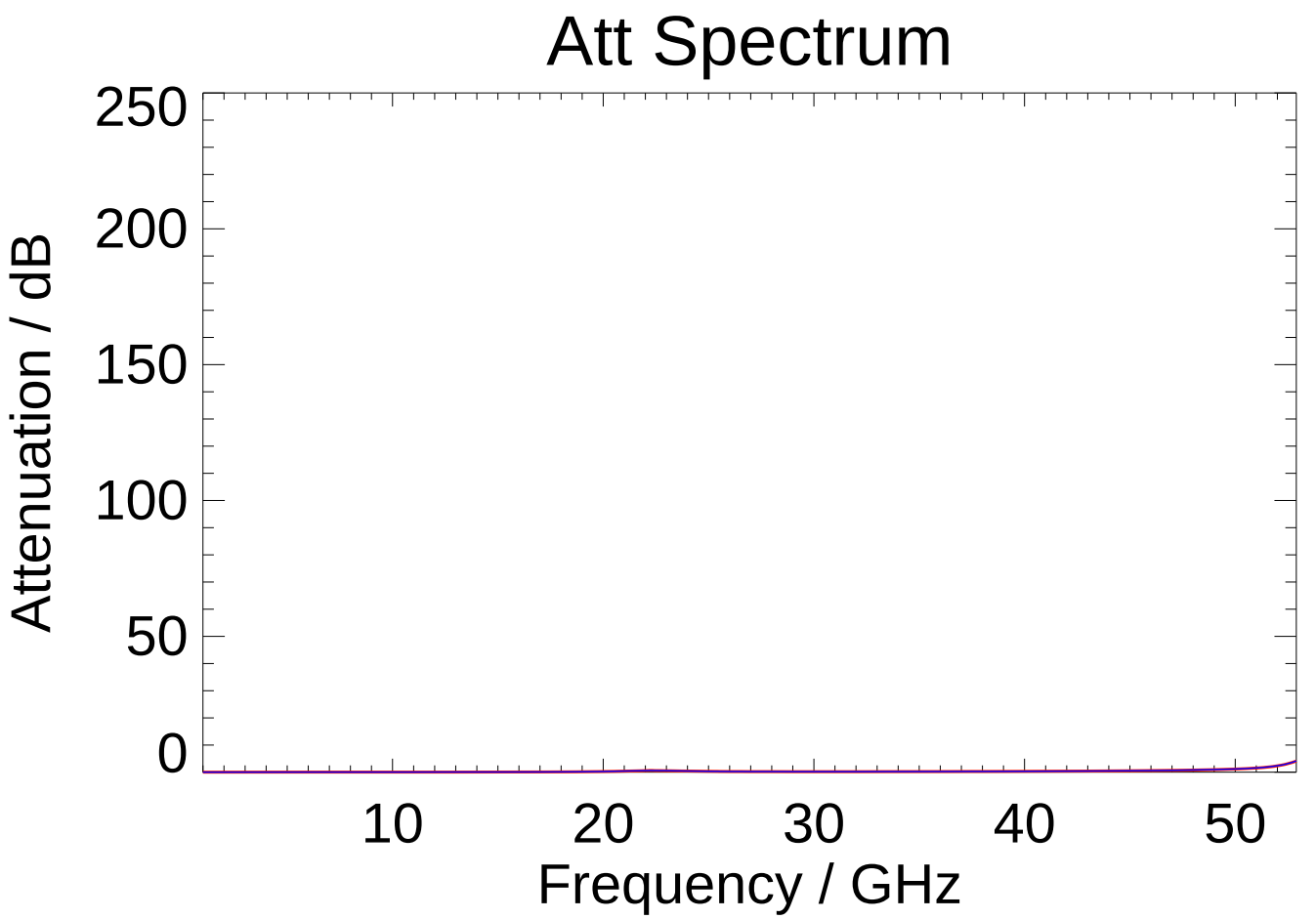
Frequency / GHz


Att Spectrum
Attenuation / dB
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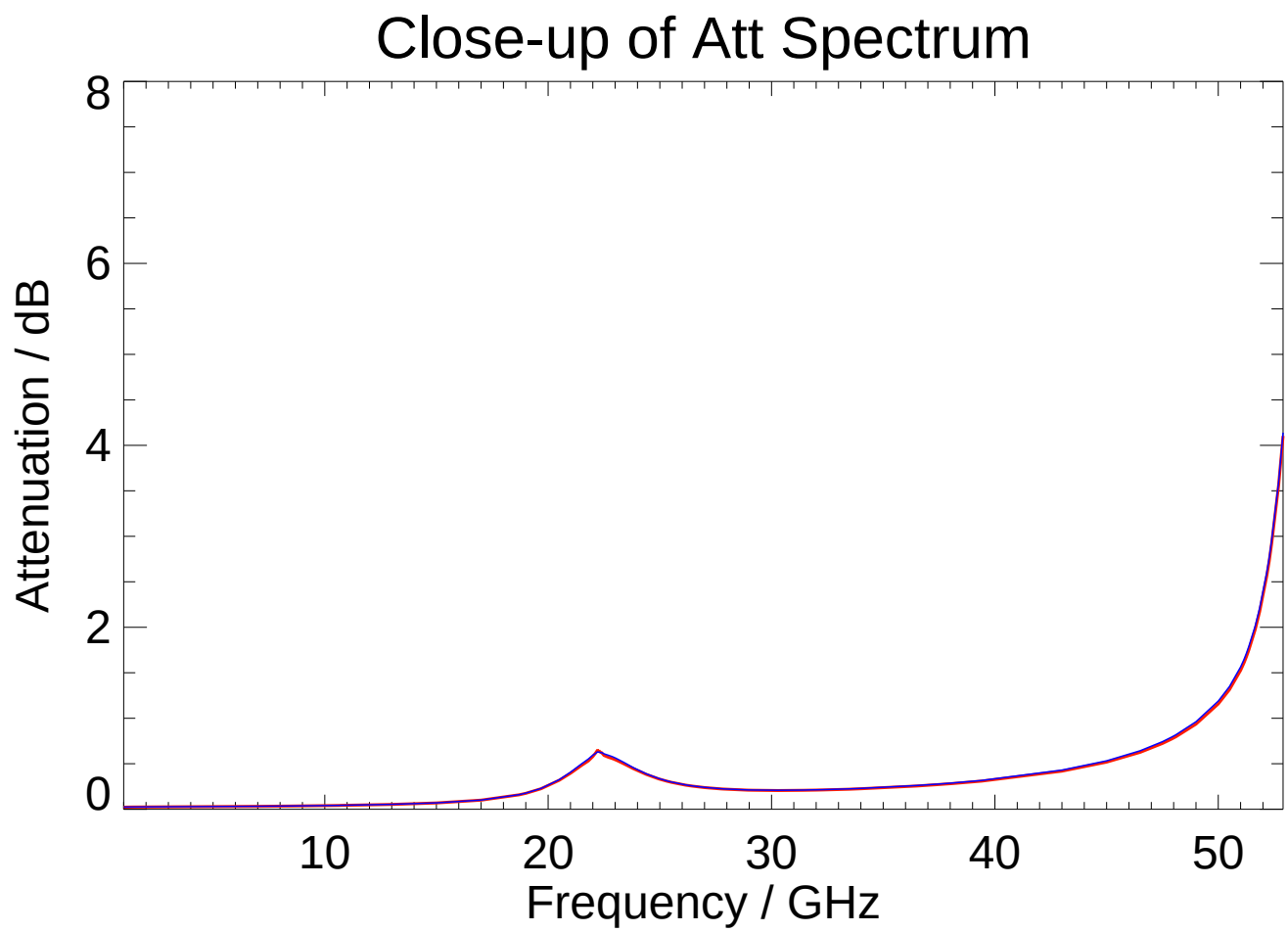
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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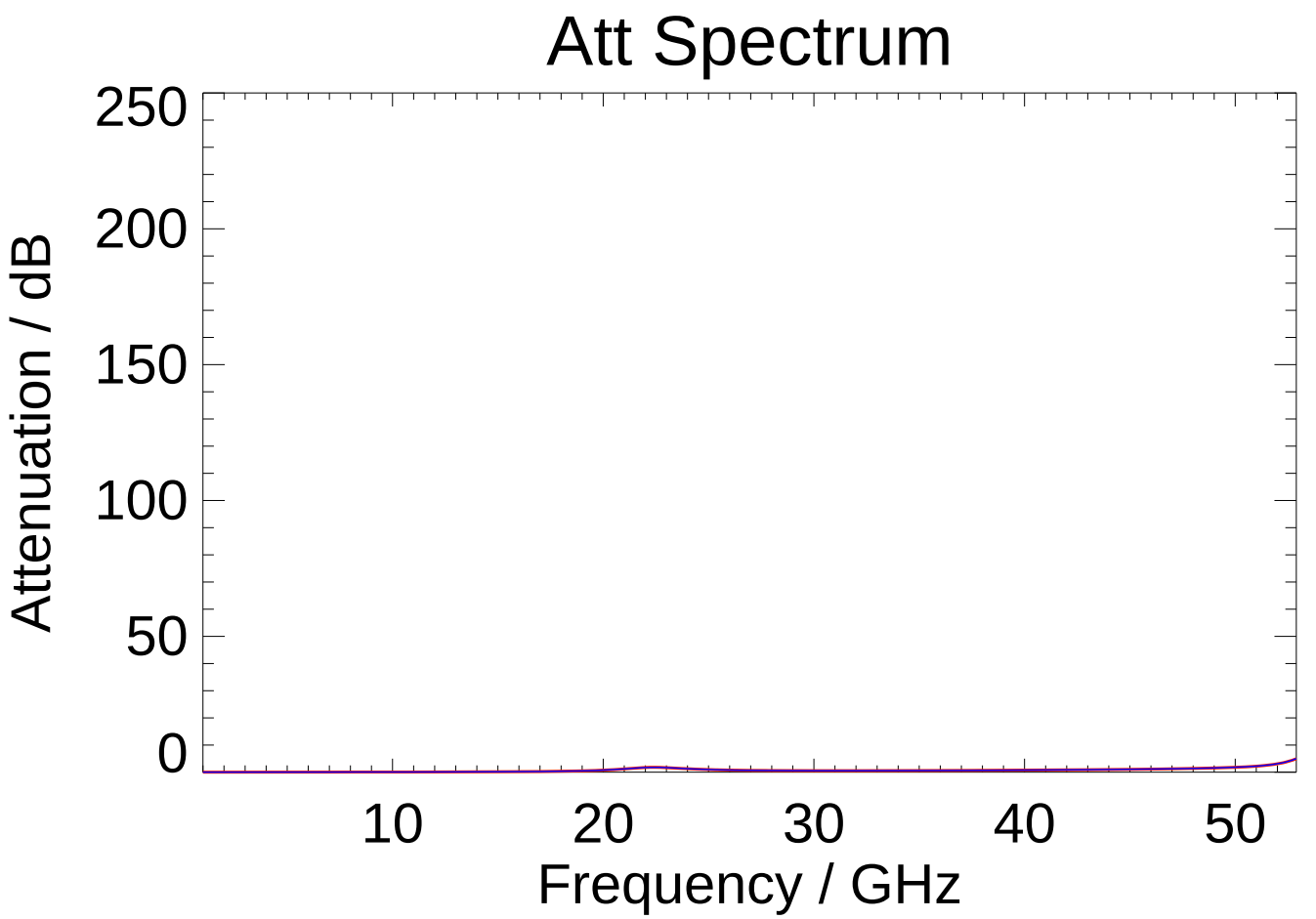
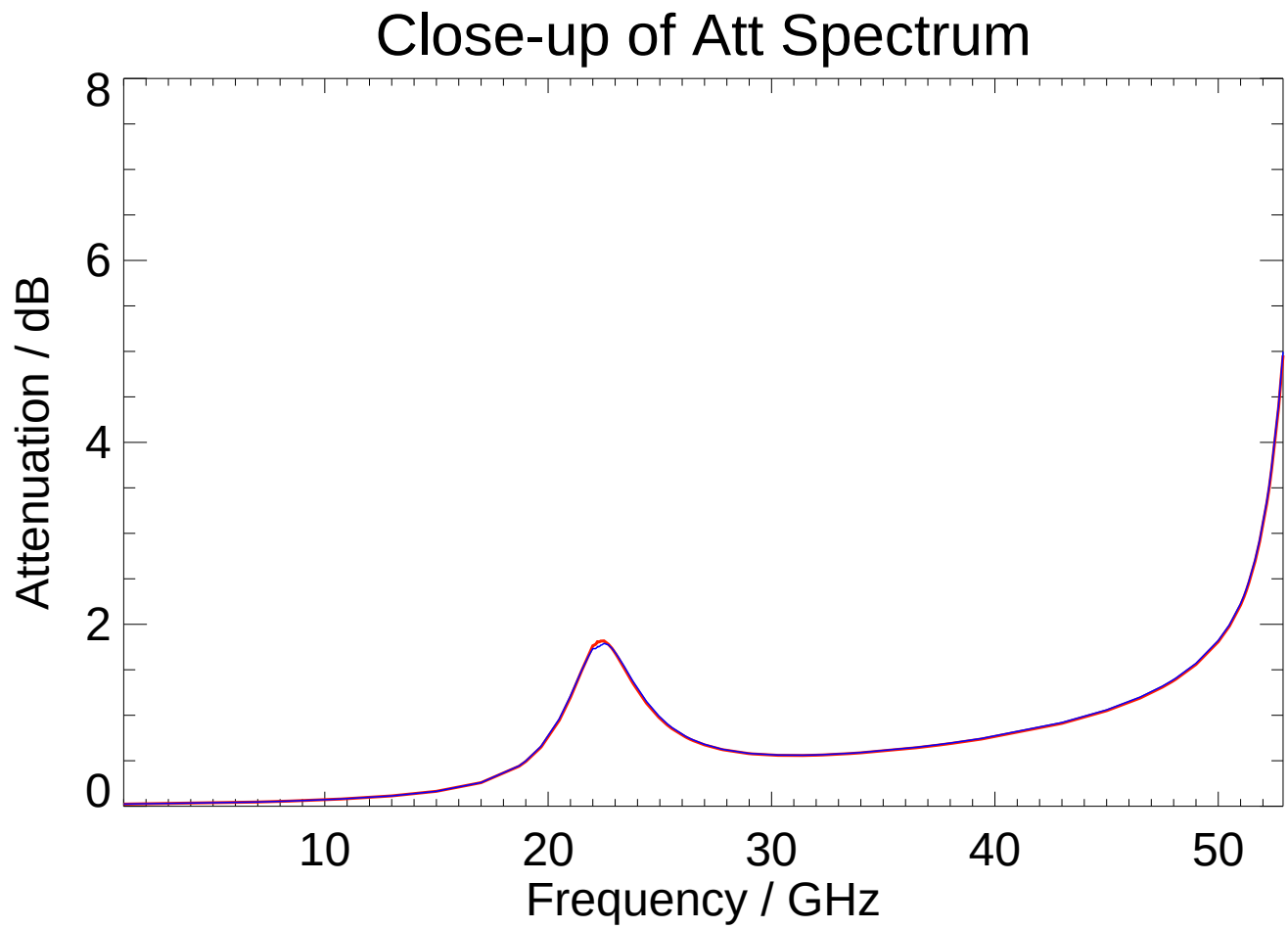
Frequency / GHz


Att Spectrum
Attenuation / dB
250
200
150
100
50
0
10
20
30
40
50
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
6
4
2
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20
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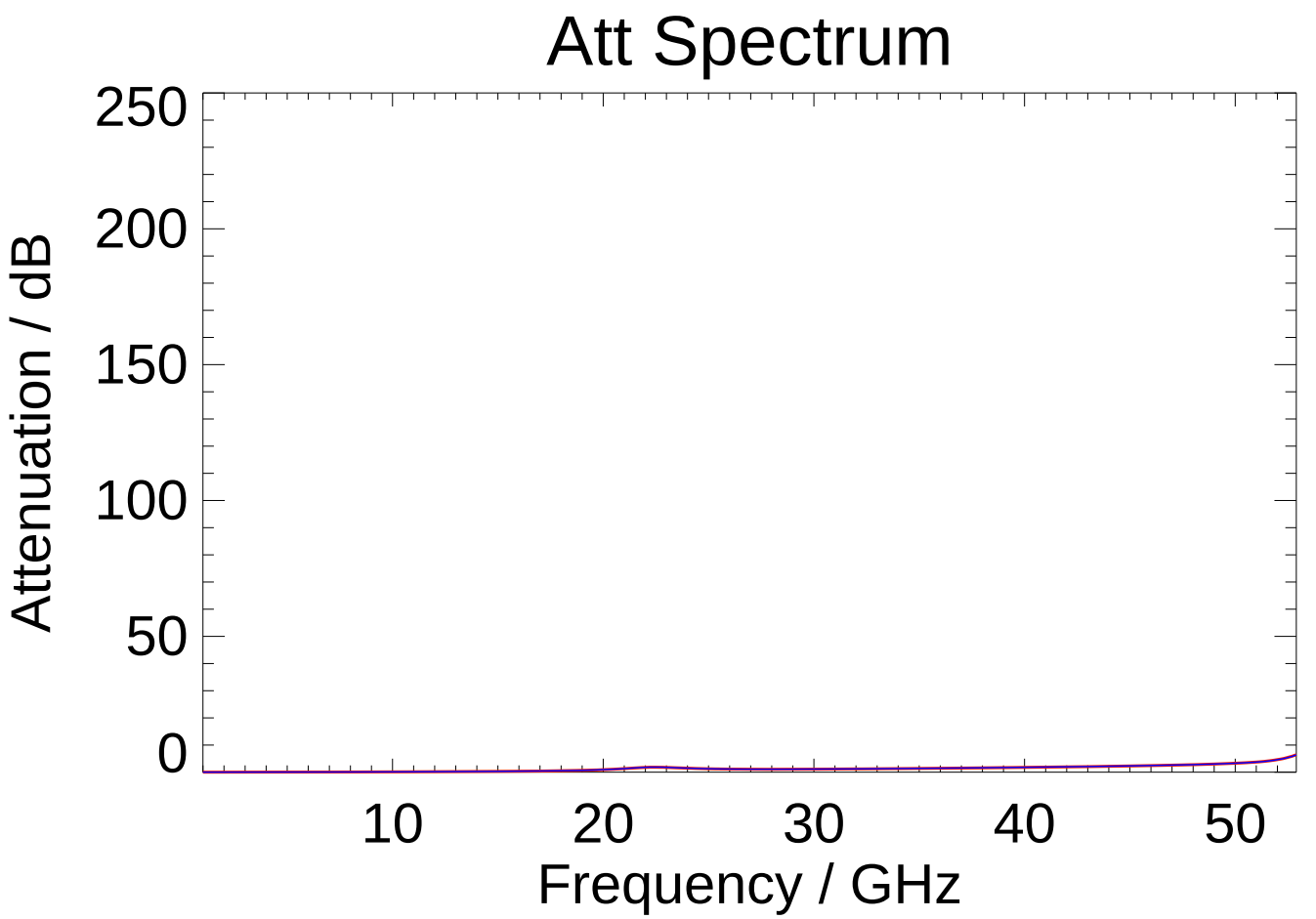
40
50
Frequency / GHz


Att Spectrum
Attenuation / dB
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200
150
100
50
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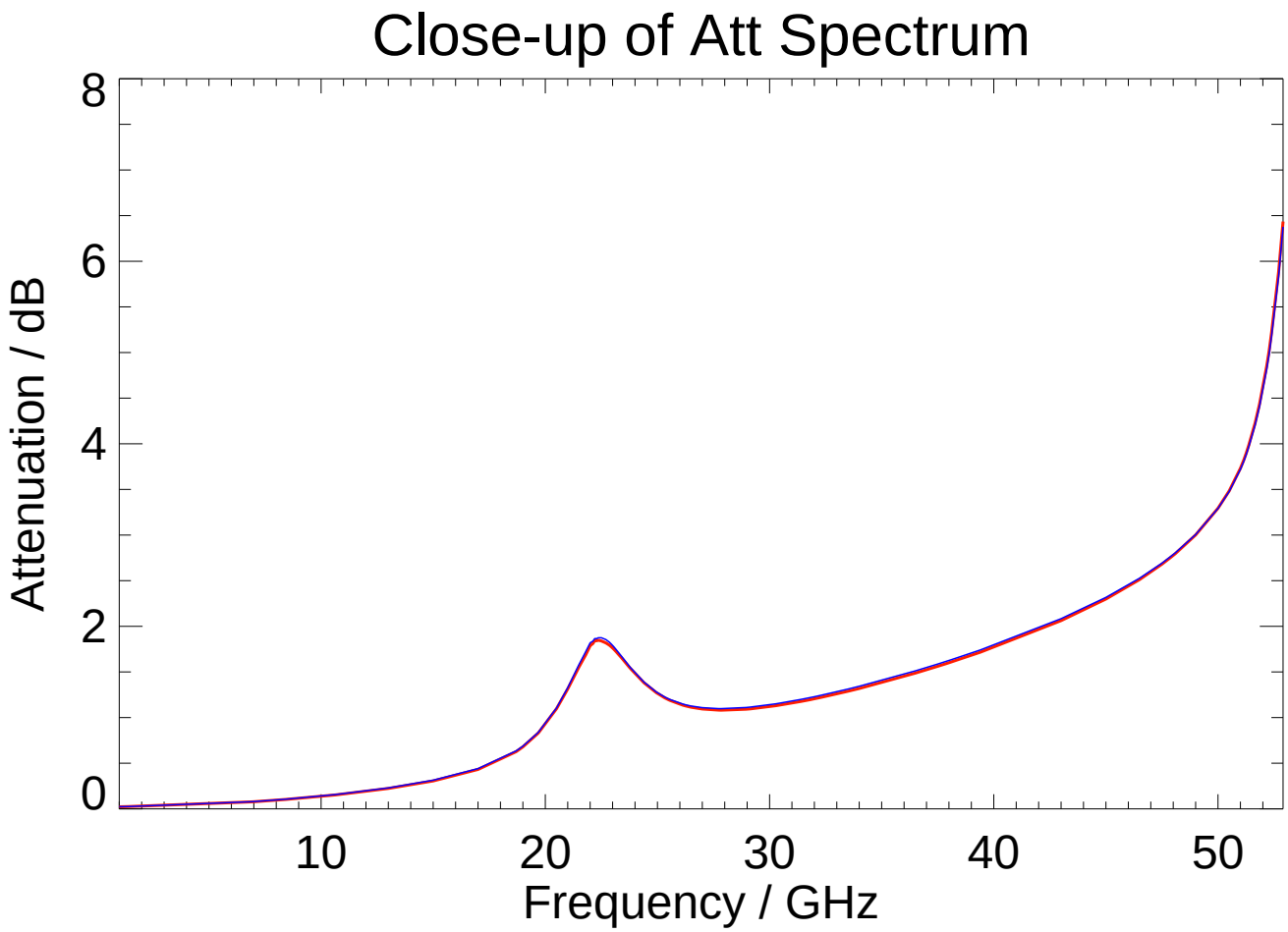
50
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
6
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40
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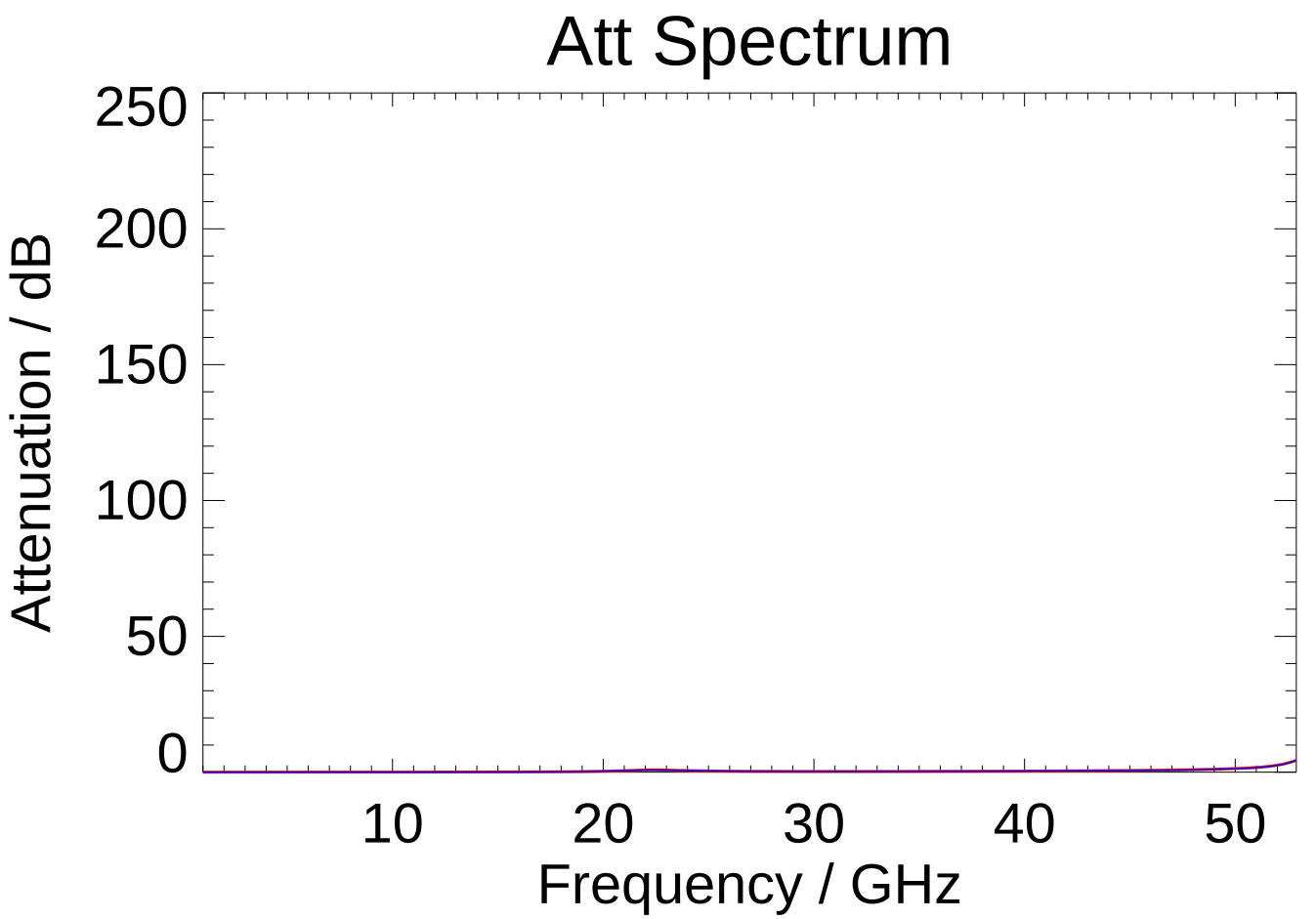
Frequency / GHz


Att Spectrum
Attenuation / dB
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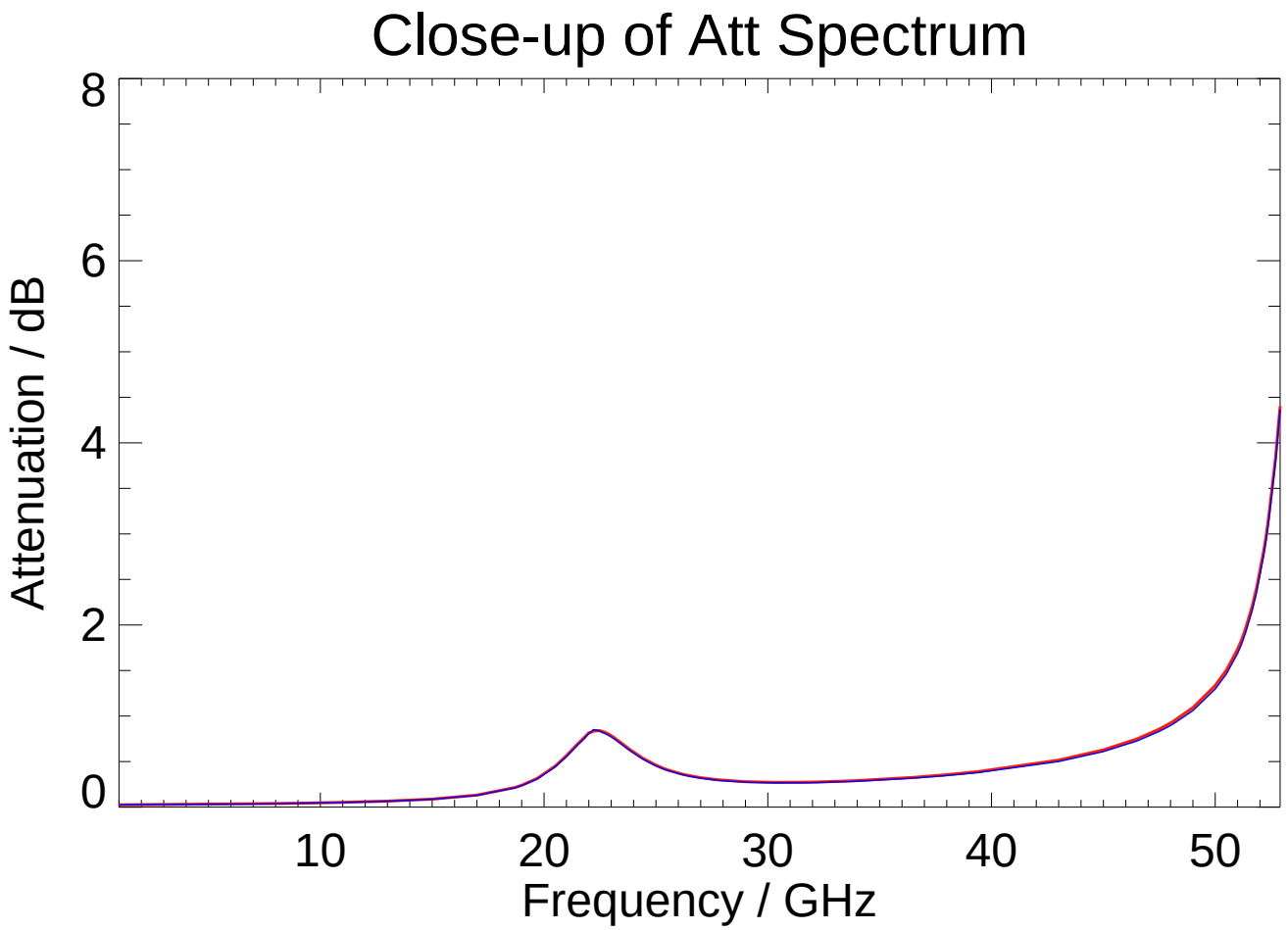
50
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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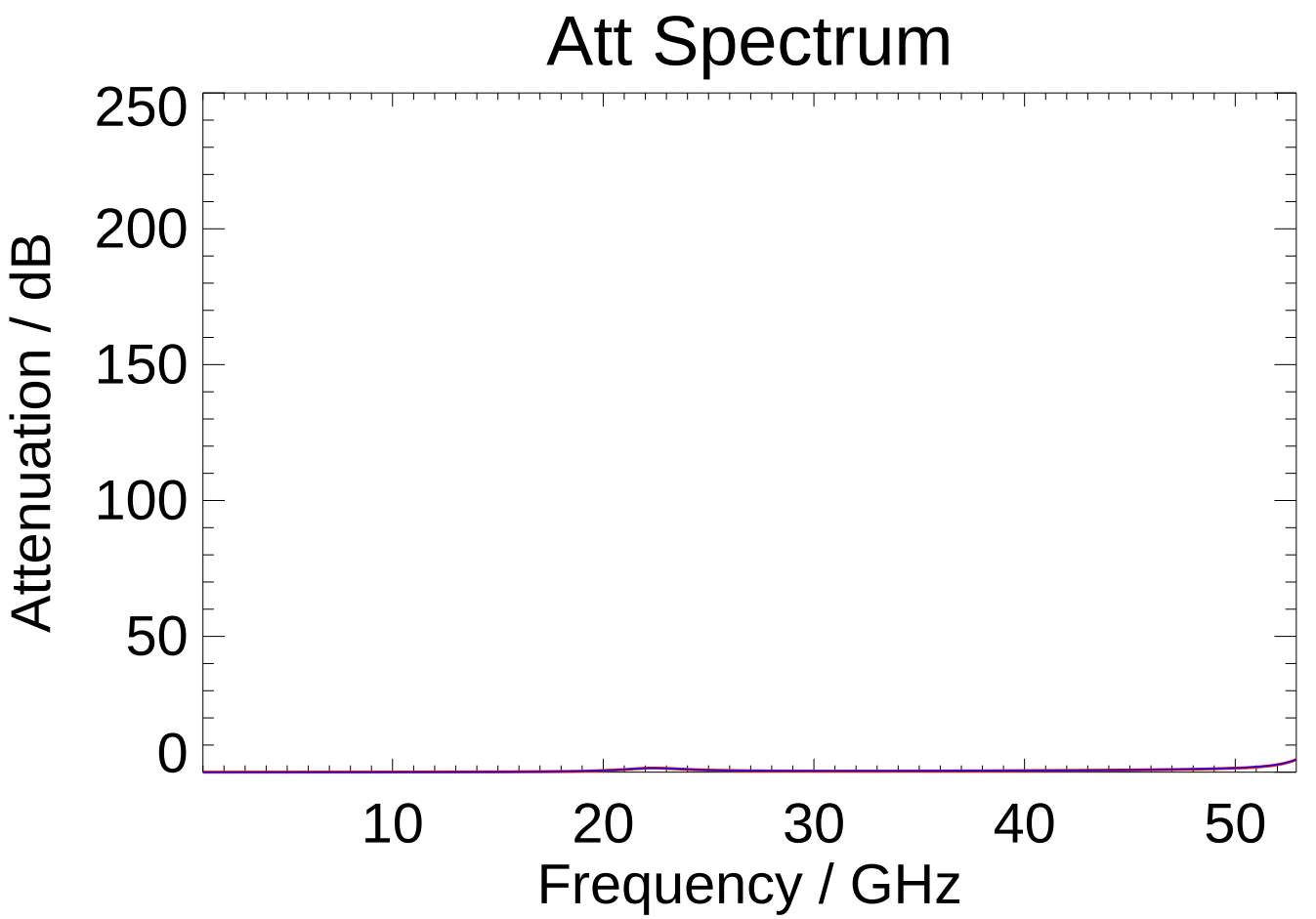
Frequency / GHz


Att Spectrum
Attenuation / dB
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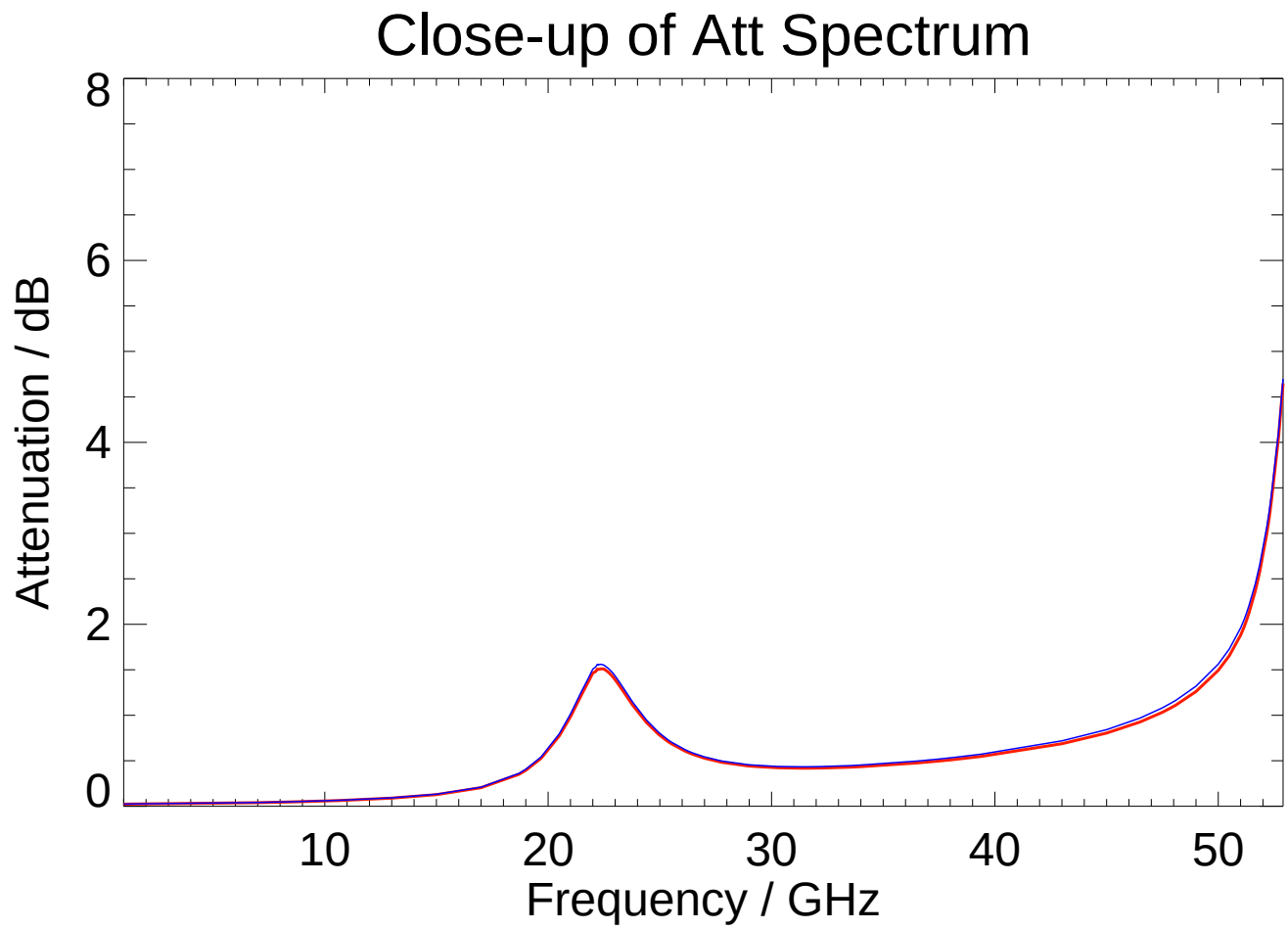
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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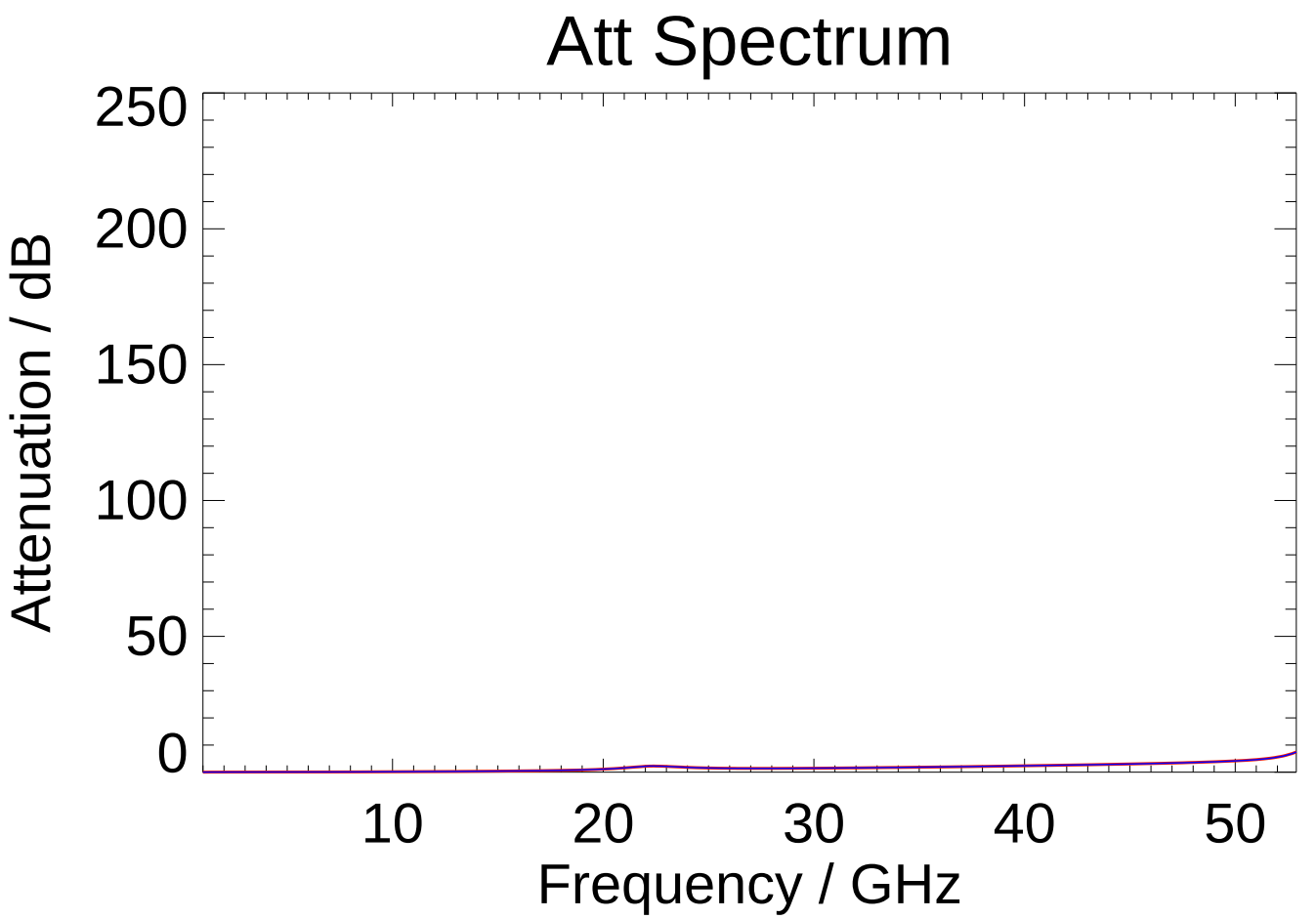
Frequency / GHz


Att Spectrum
Attenuation / dB
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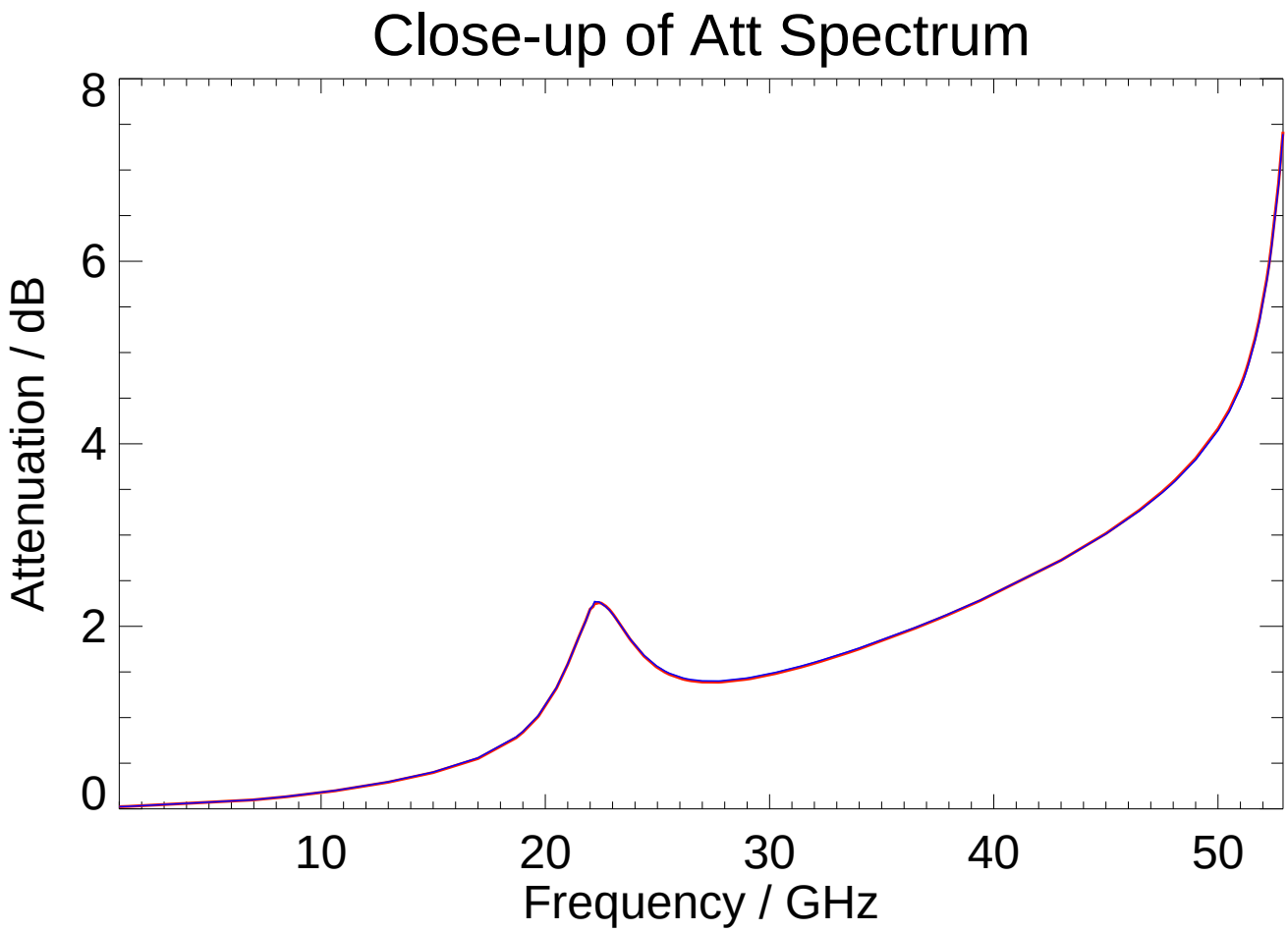
50
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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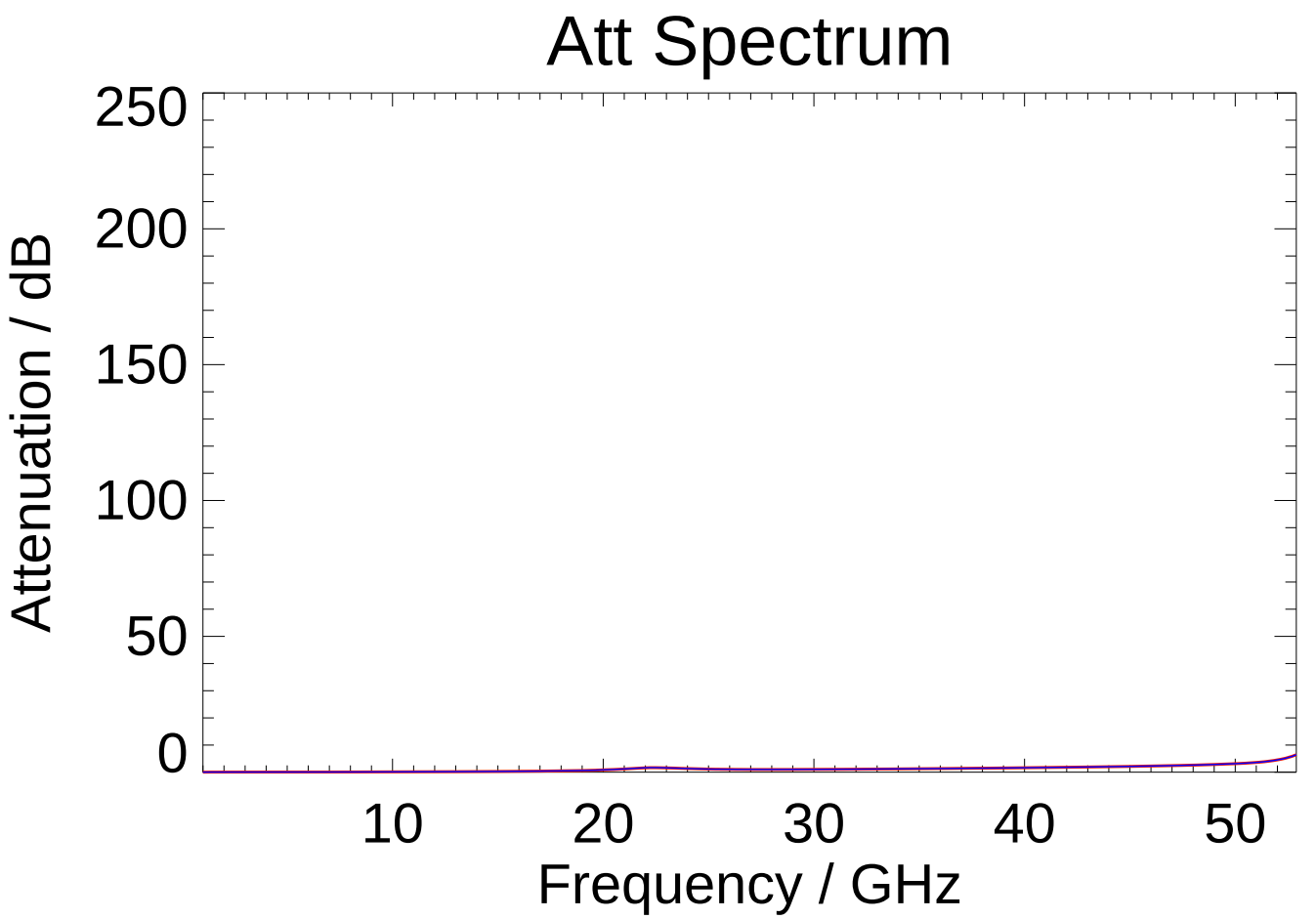
Frequency / GHz


Att Spectrum
Attenuation / dB
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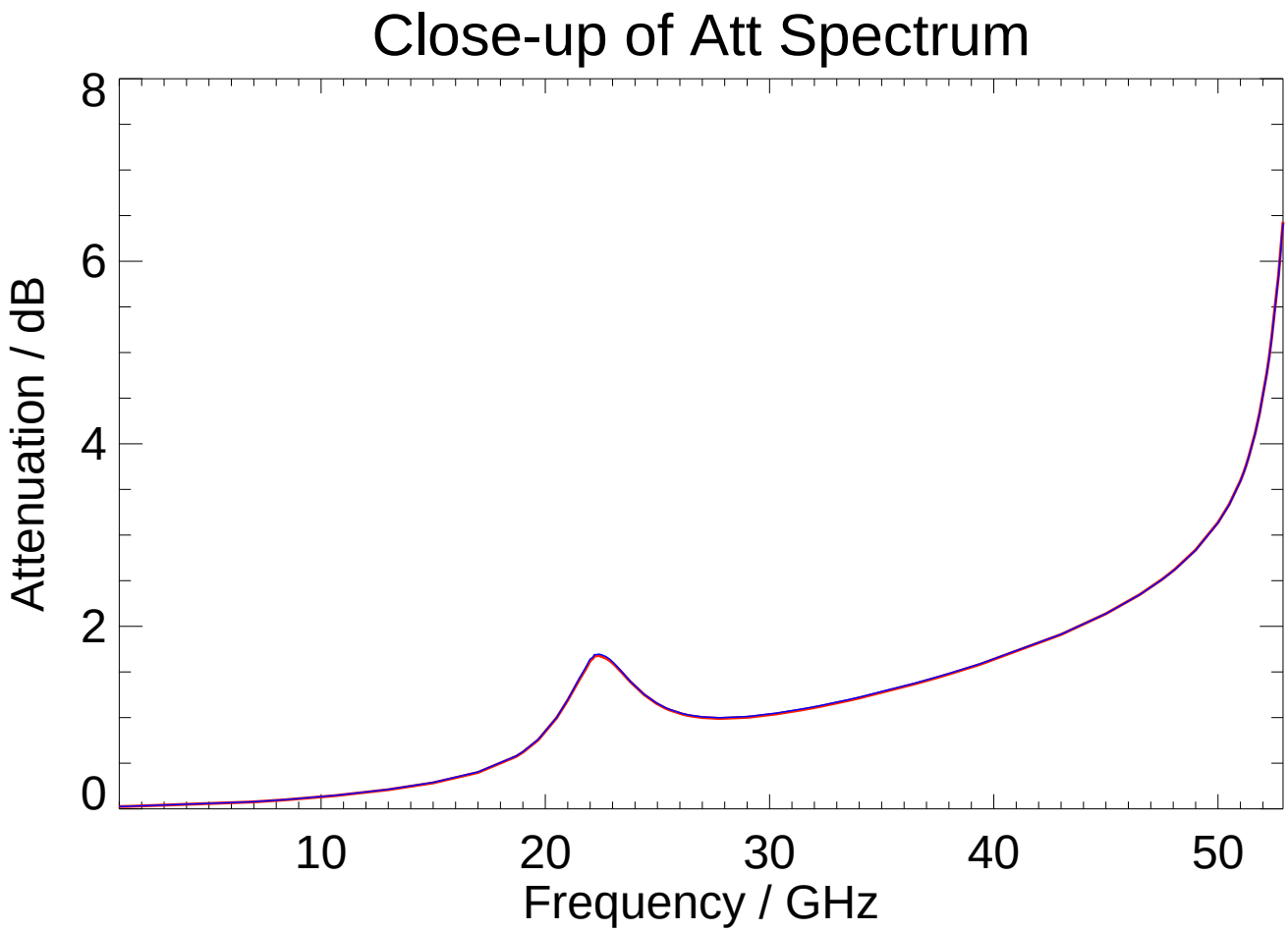
50
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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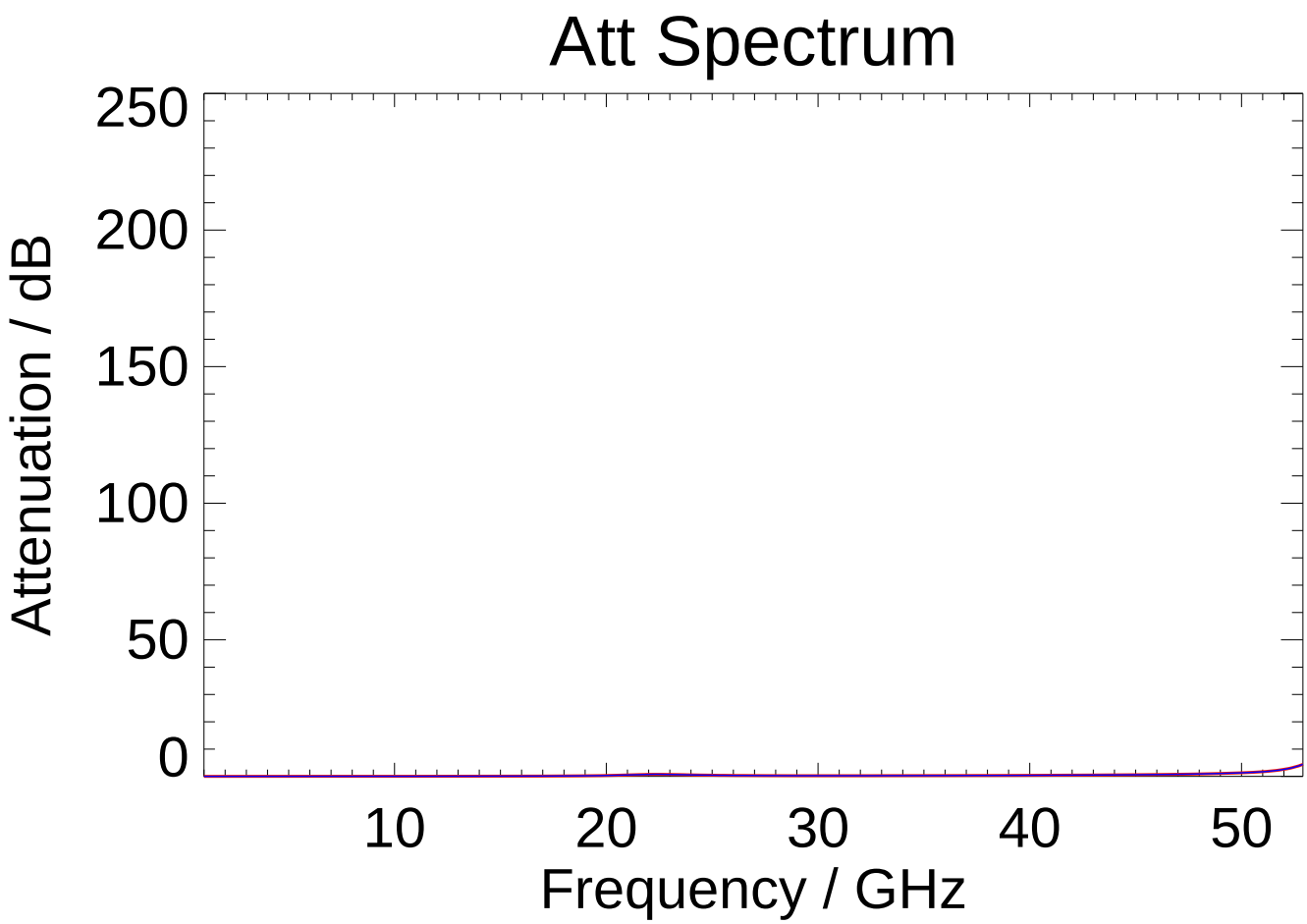
Frequency / GHz


Att Spectrum
Attenuation / dB
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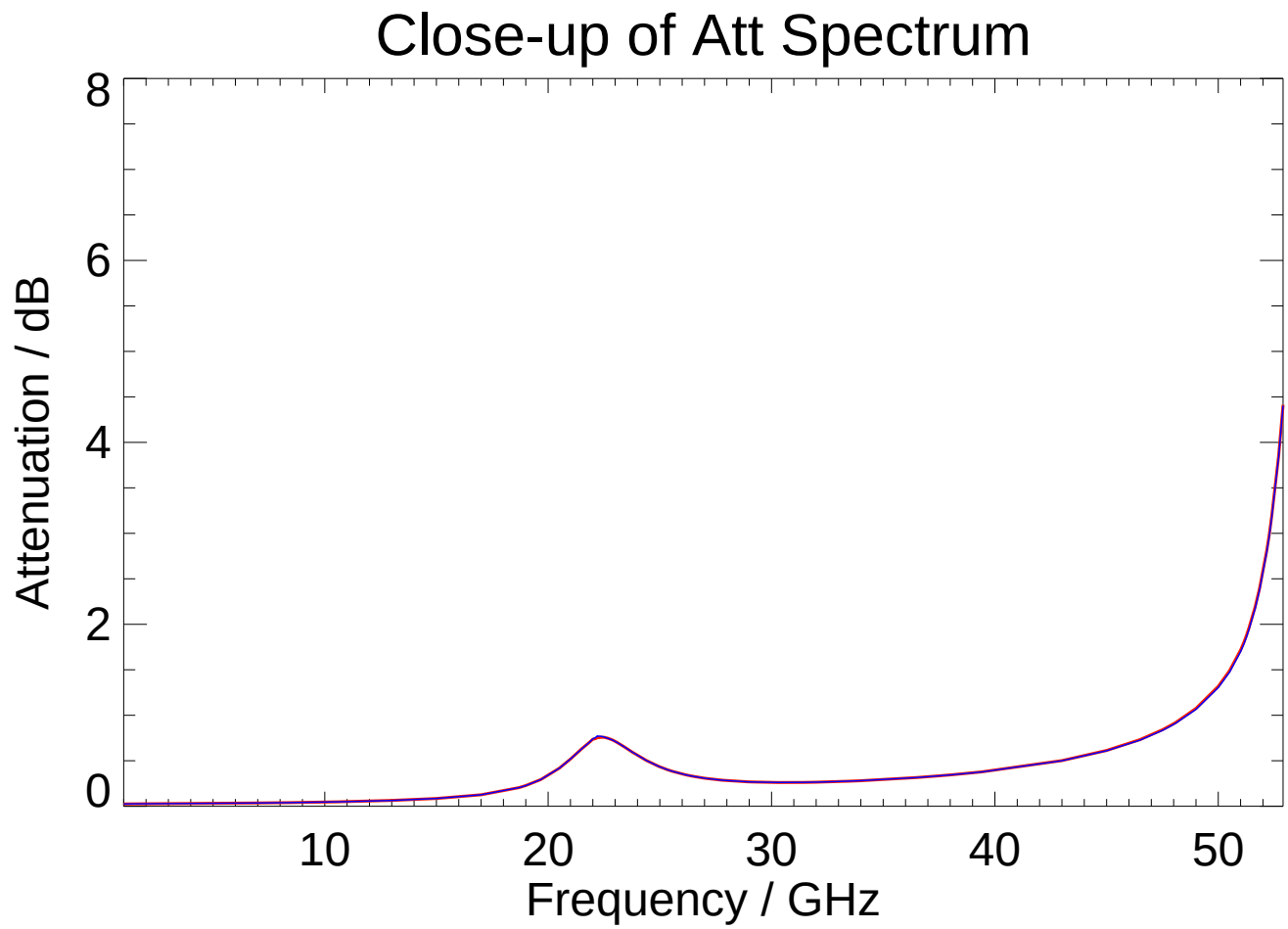
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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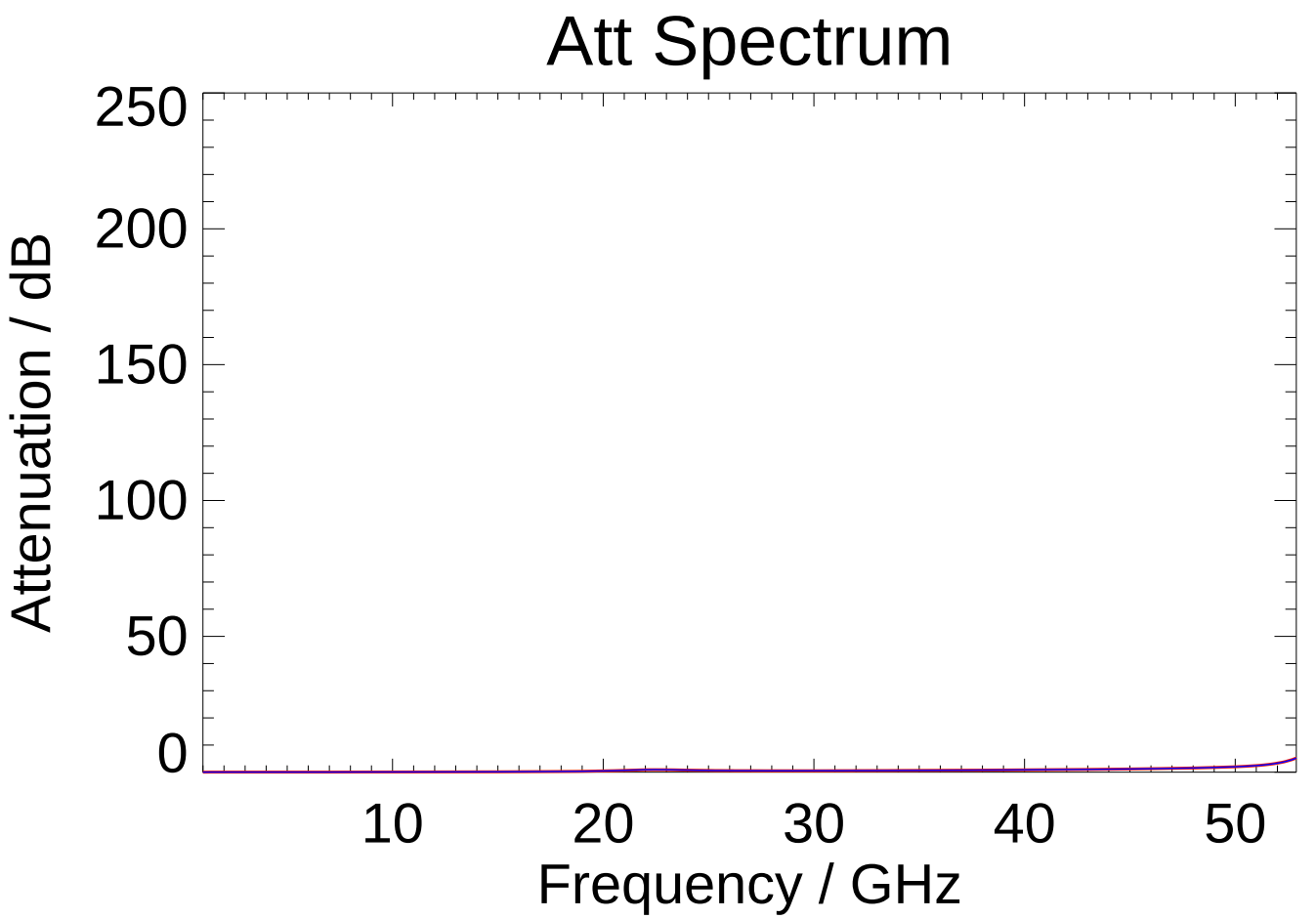
Frequency / GHz


Att Spectrum
Attenuation / dB
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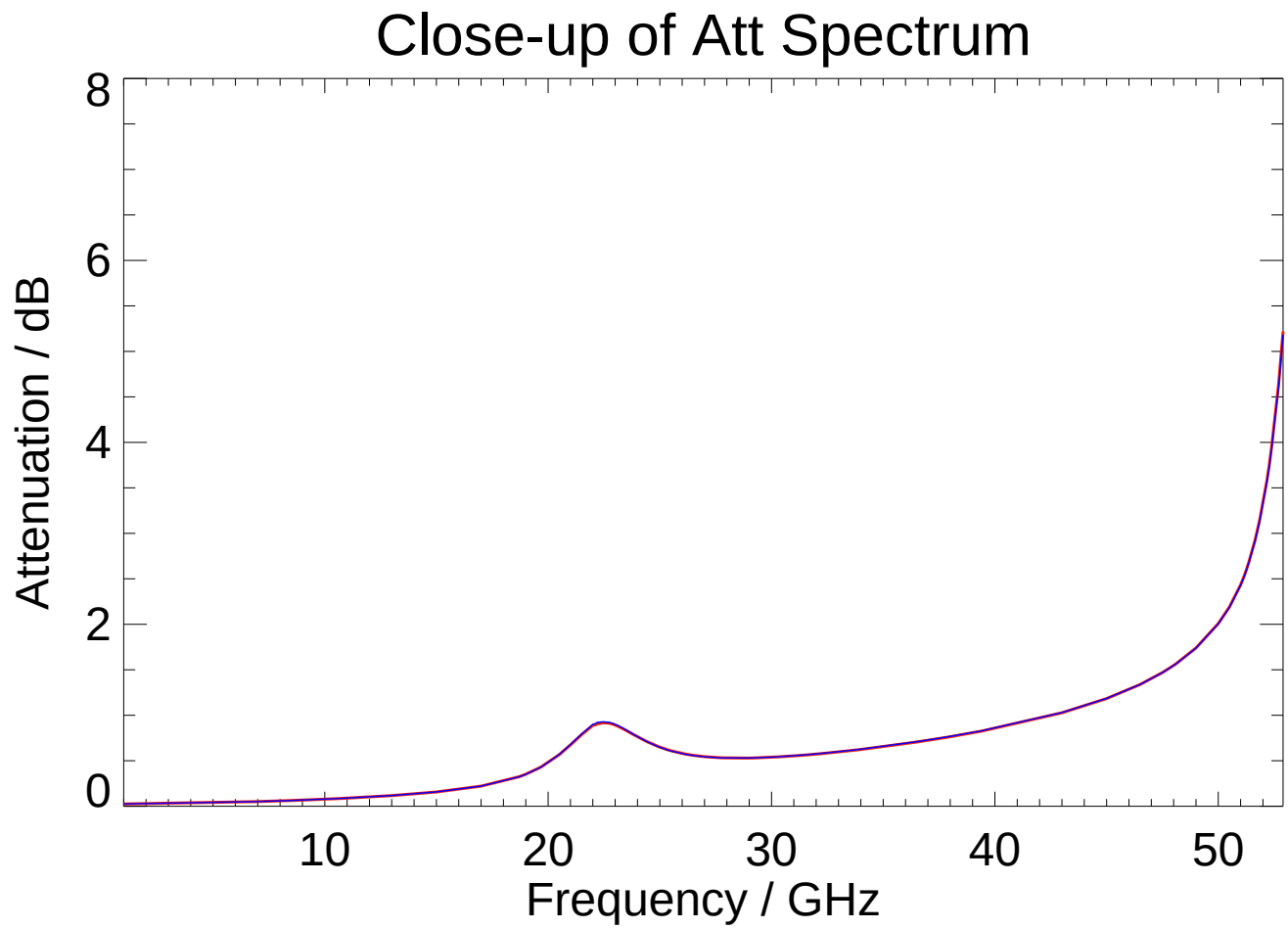
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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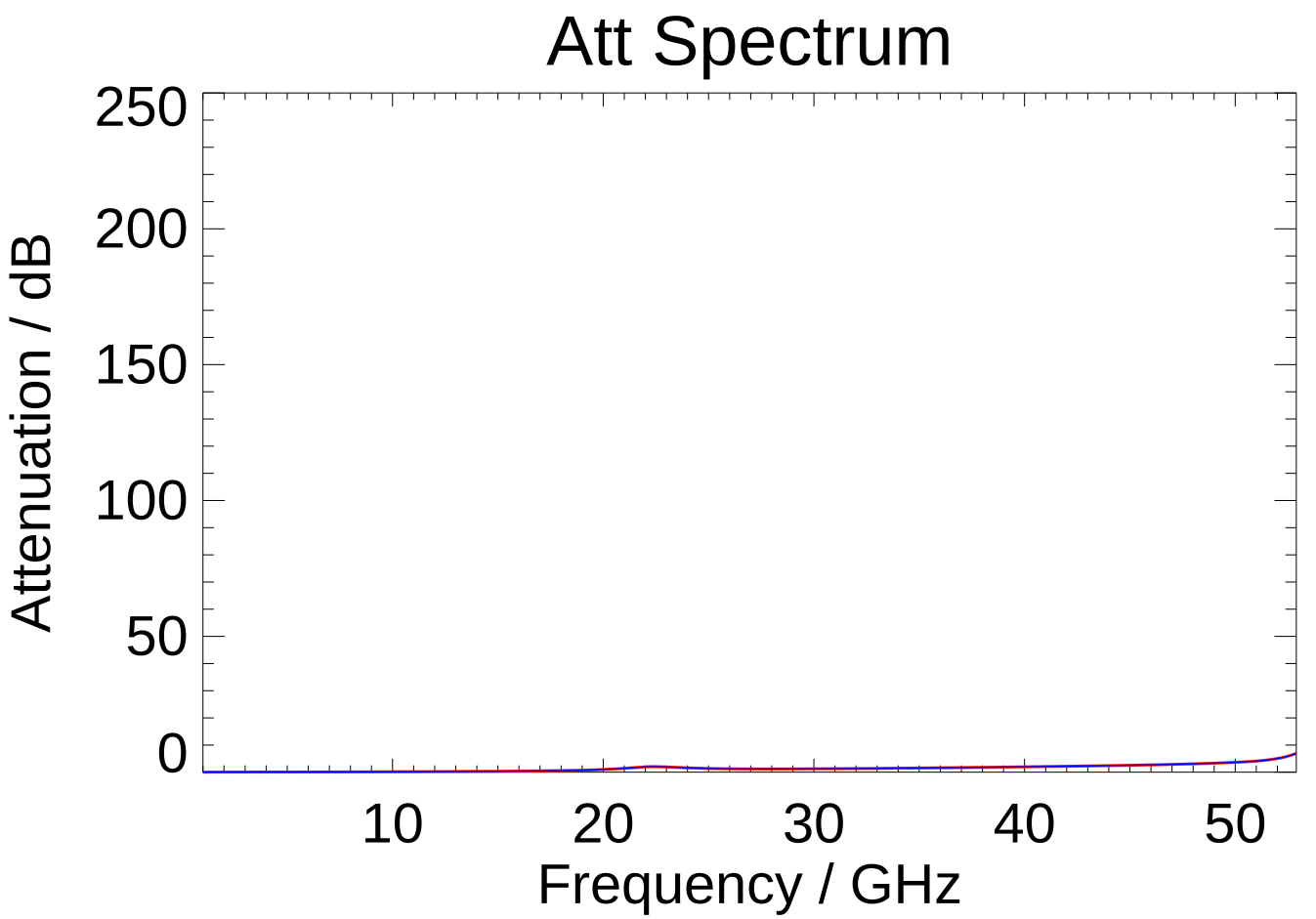
Frequency / GHz


Att Spectrum
Attenuation / dB
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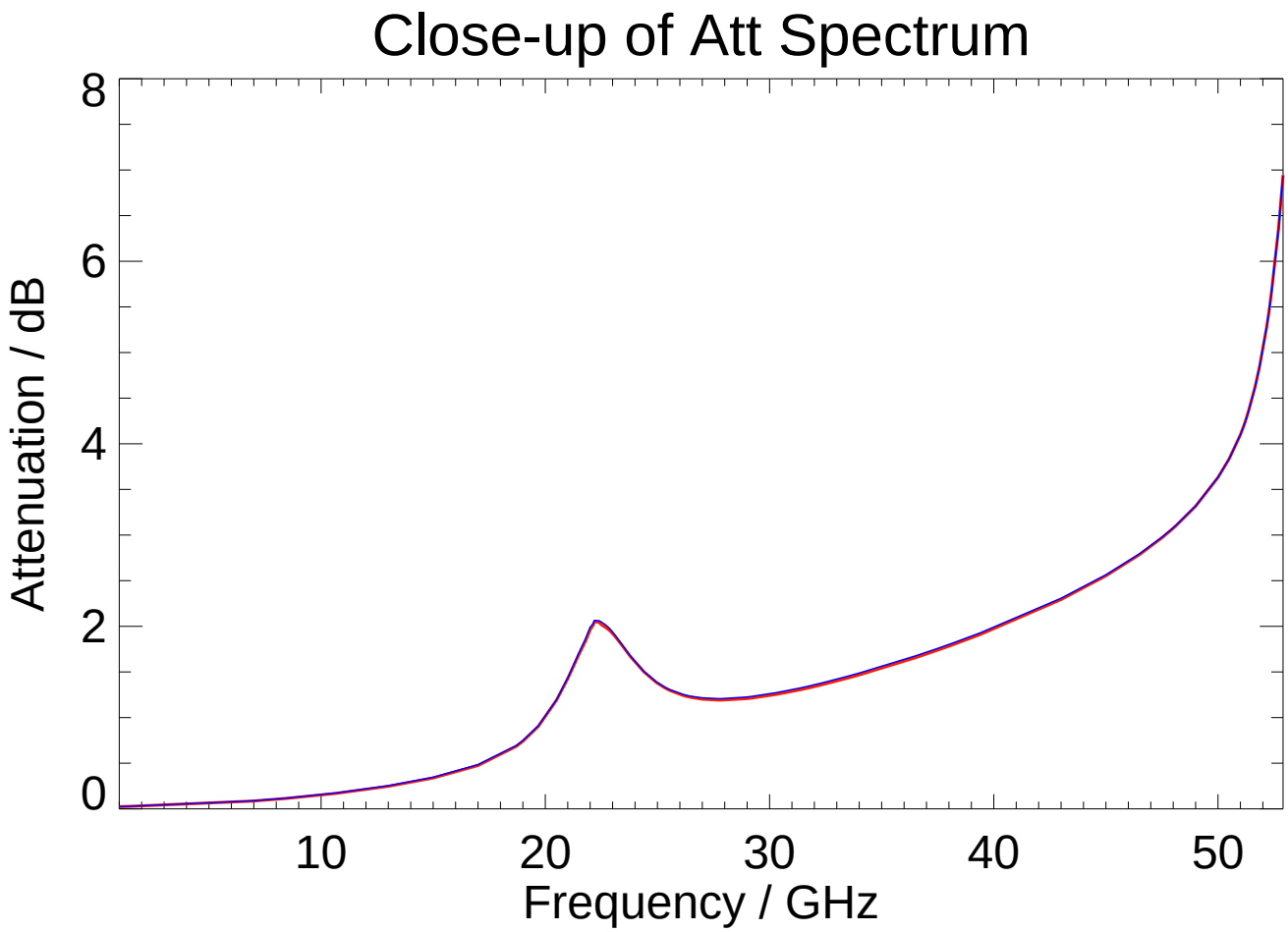
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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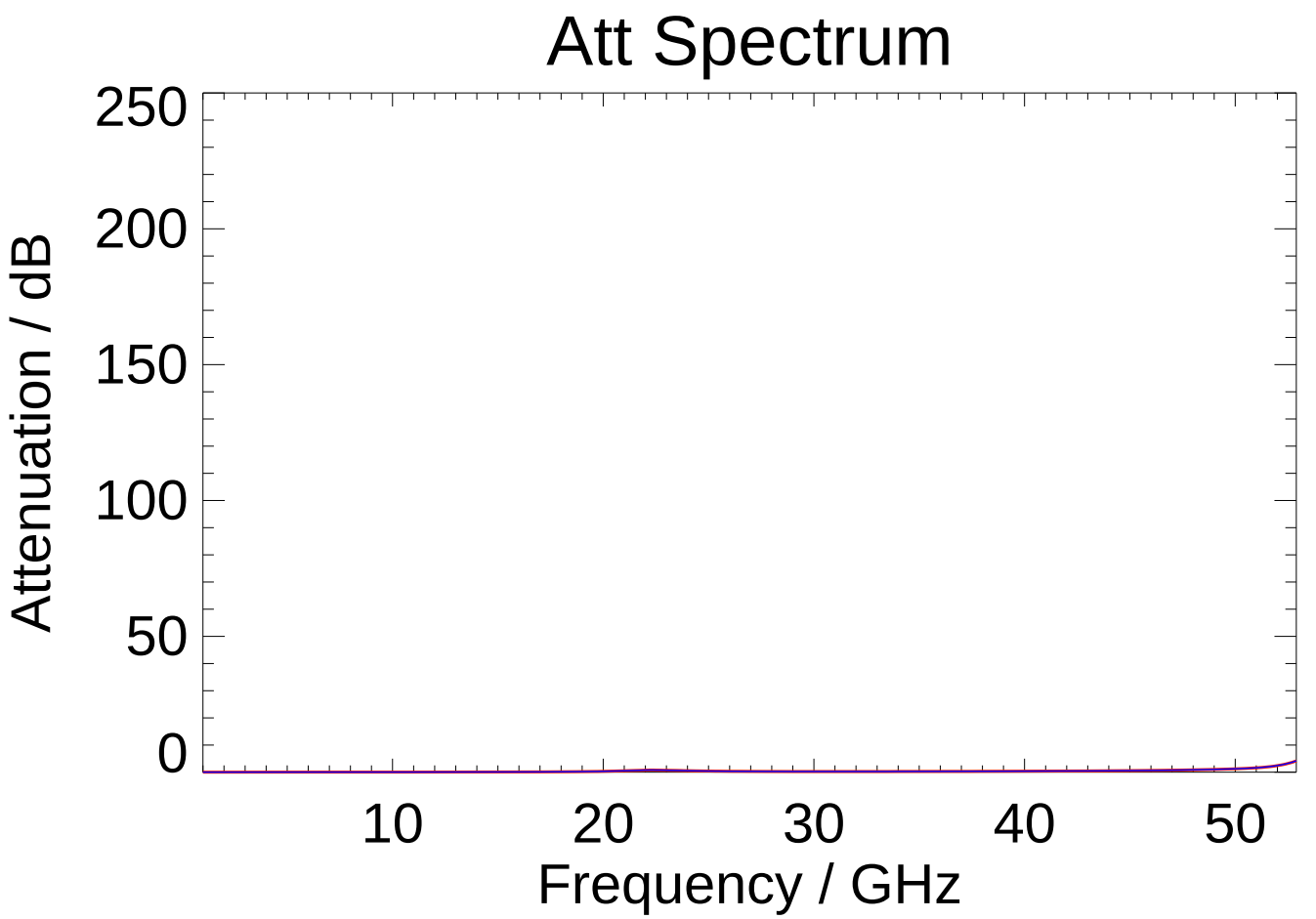
Frequency / GHz


Att Spectrum
Attenuation / dB
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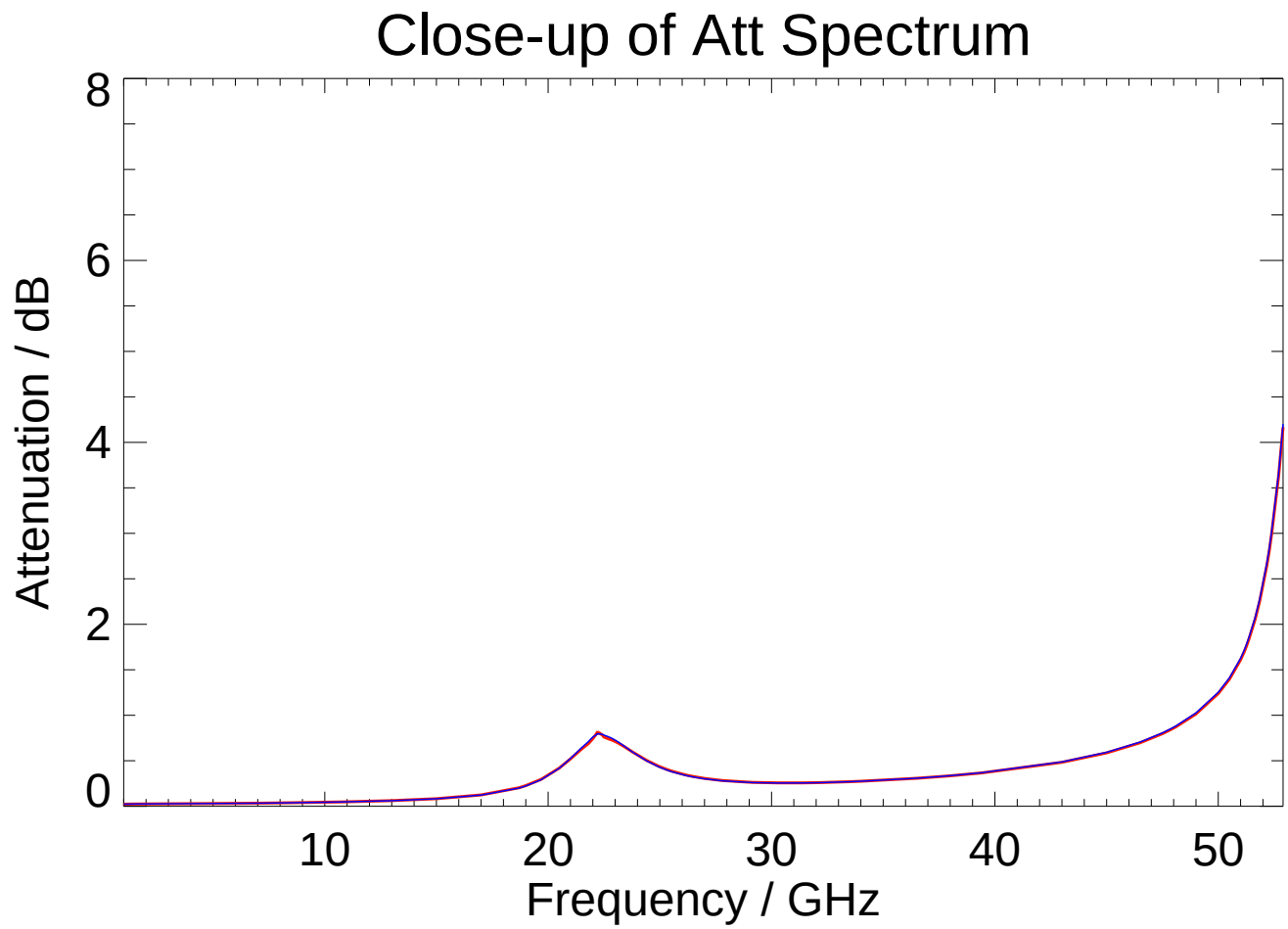
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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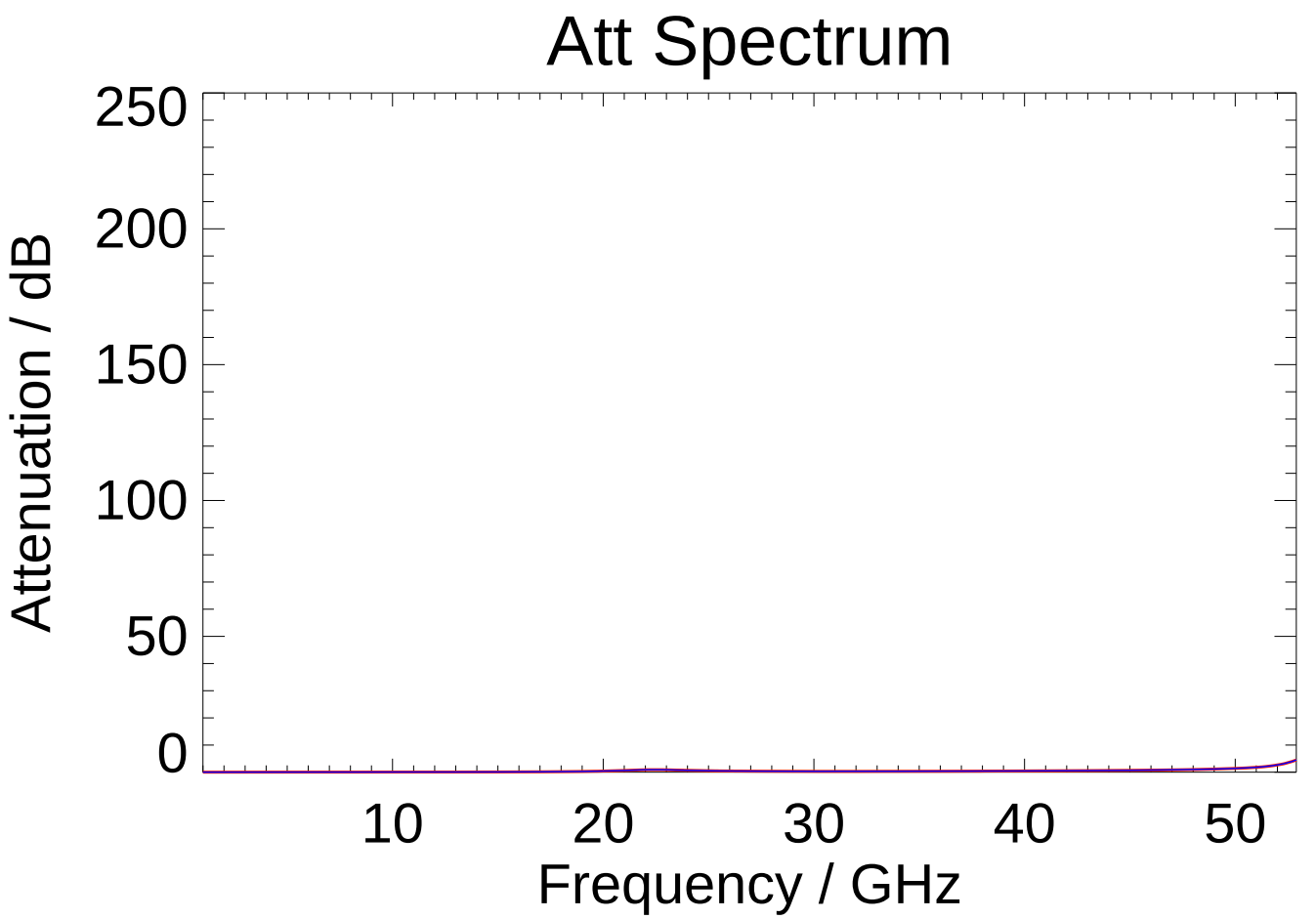
Frequency / GHz


Att Spectrum
Attenuation / dB
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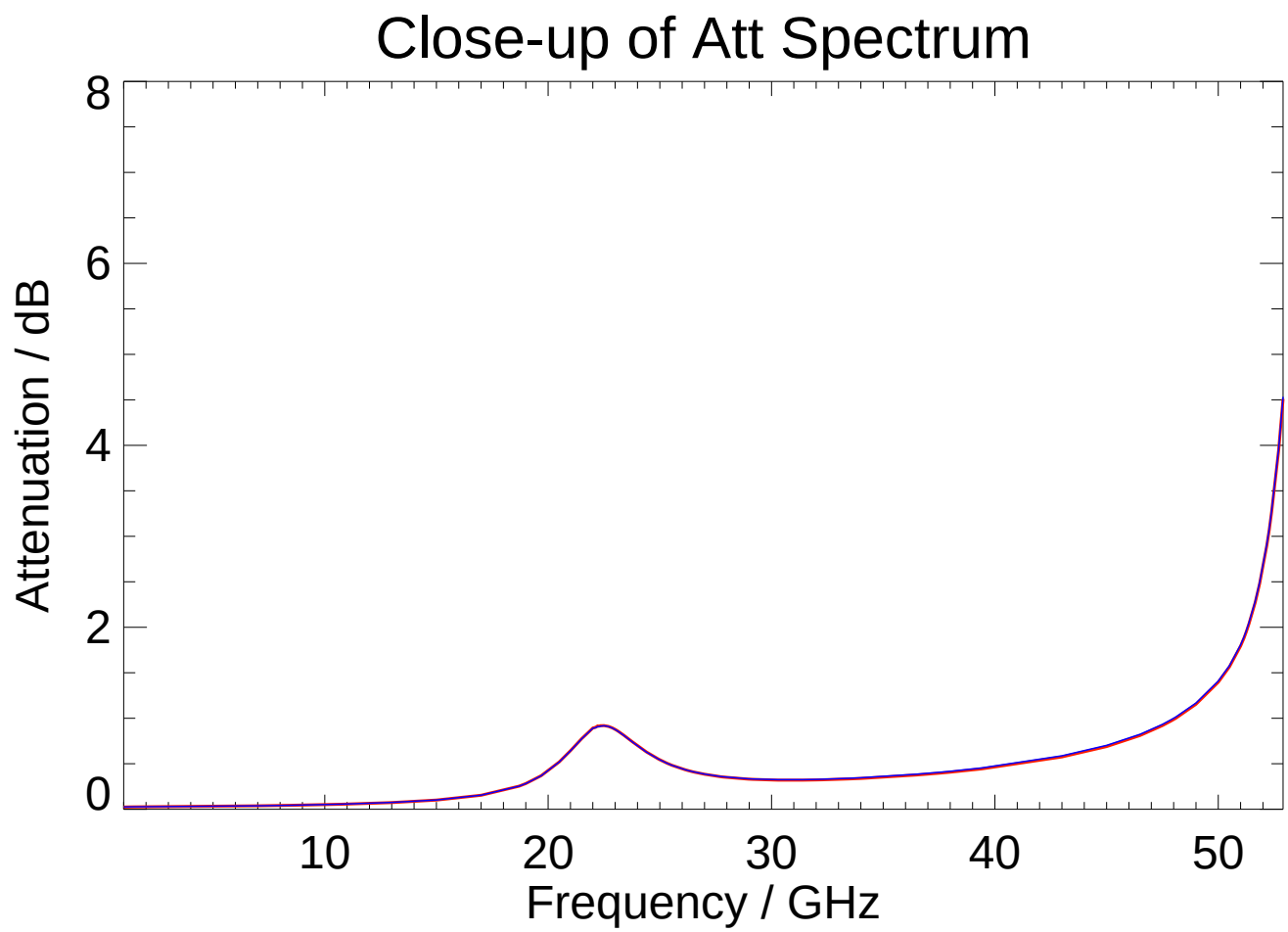
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
6
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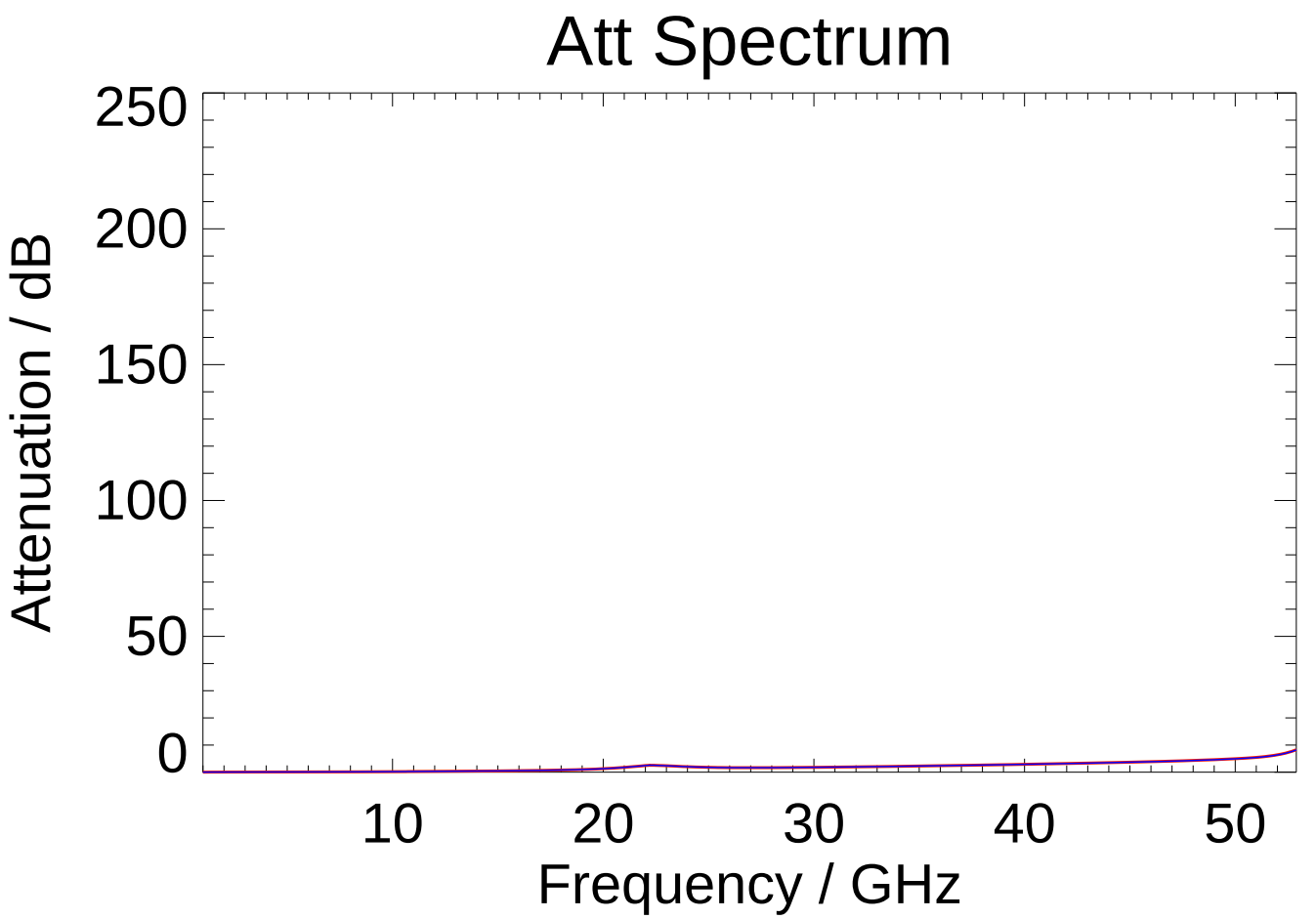
Frequency / GHz


Att Spectrum
Attenuation / dB
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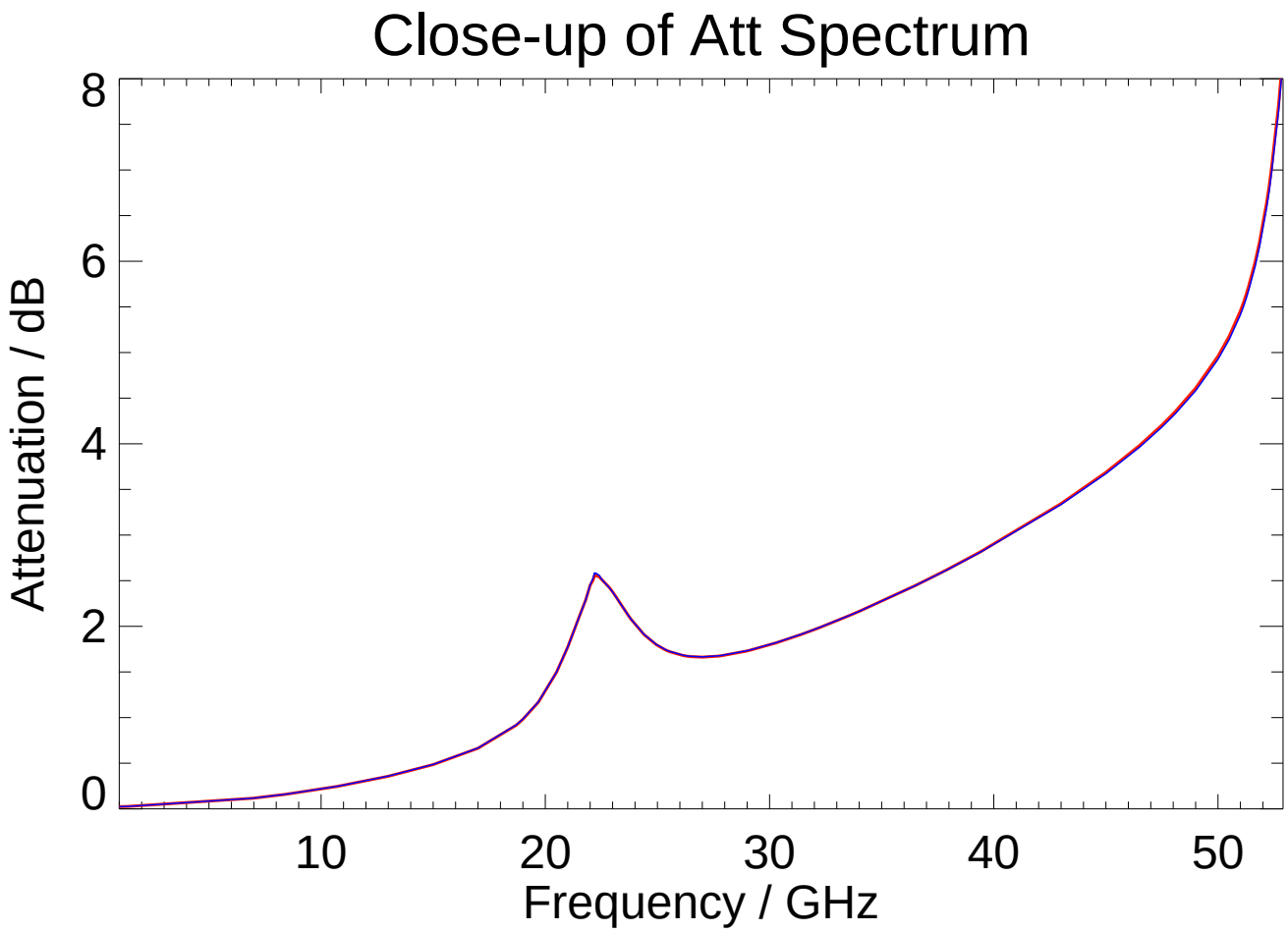
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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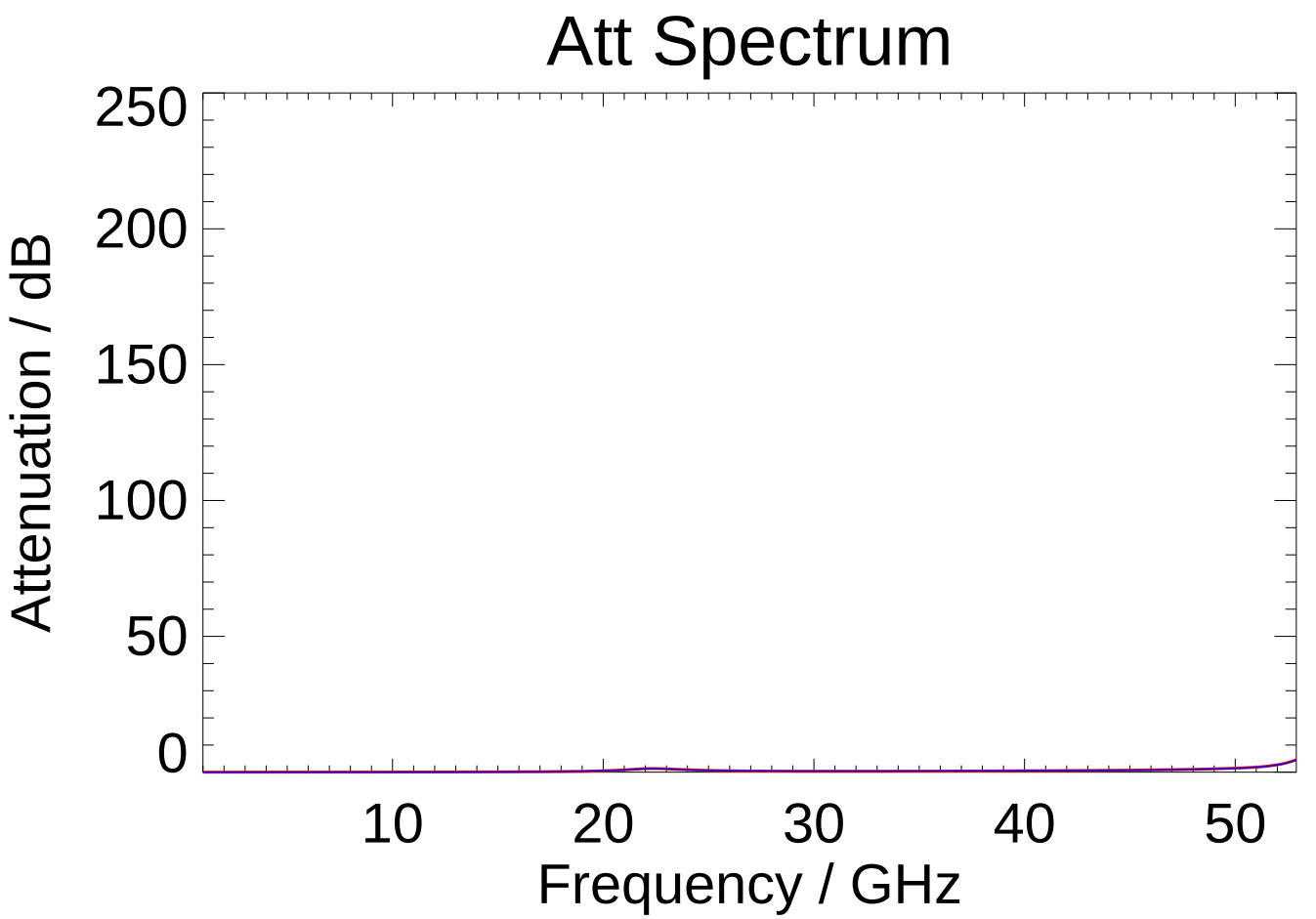
Frequency / GHz


Att Spectrum
Attenuation / dB
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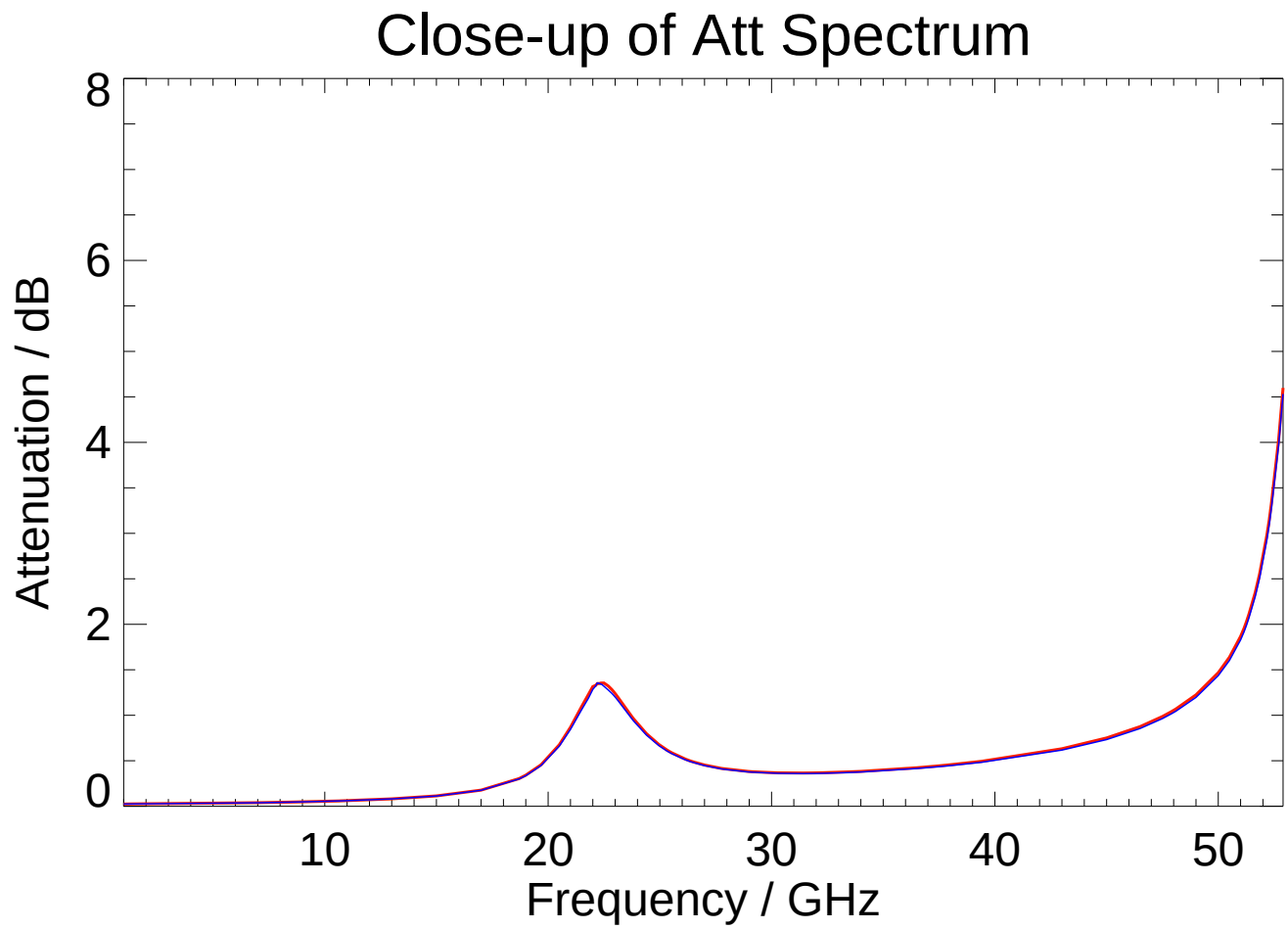
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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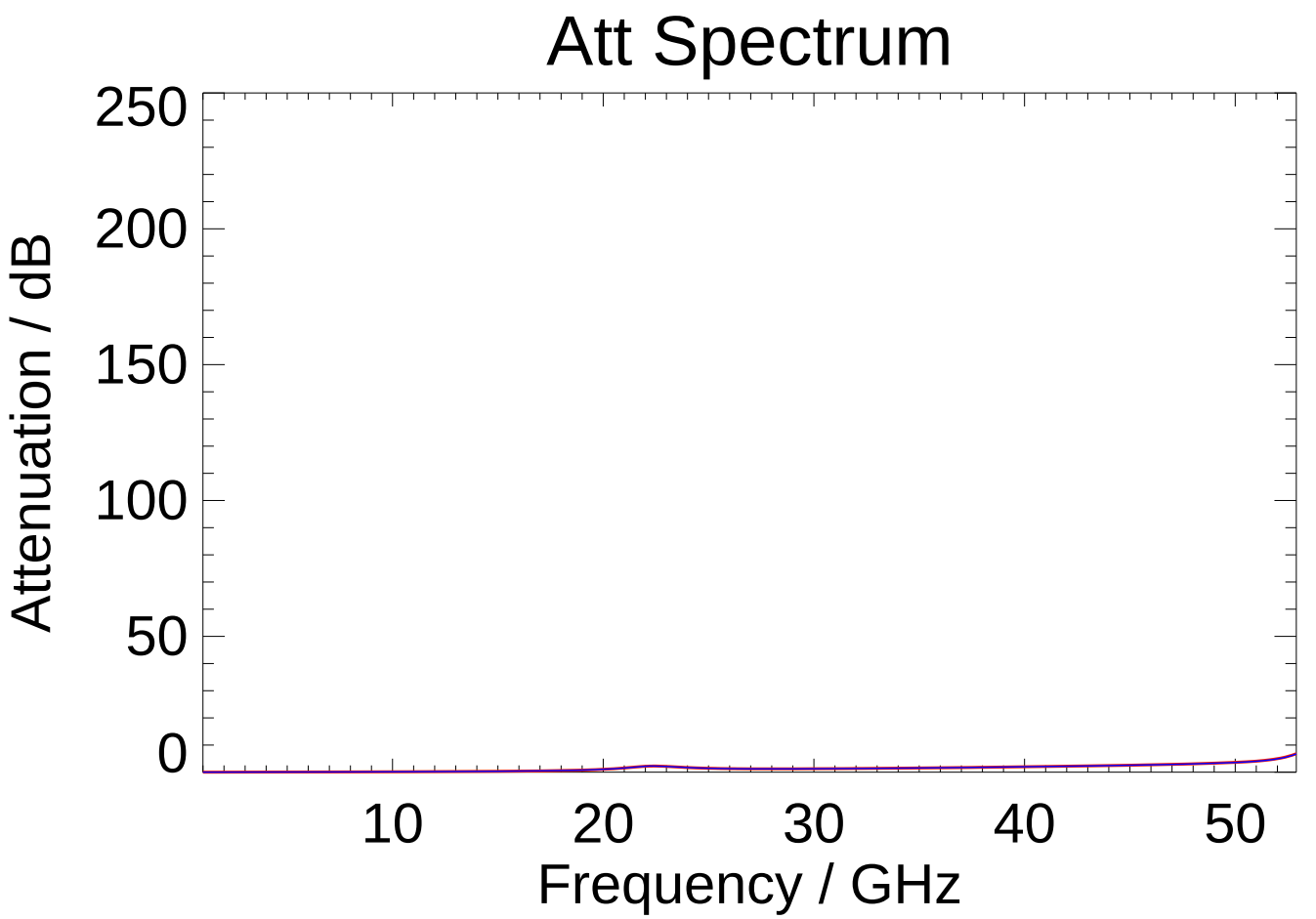
Frequency / GHz


Att Spectrum
Attenuation / dB
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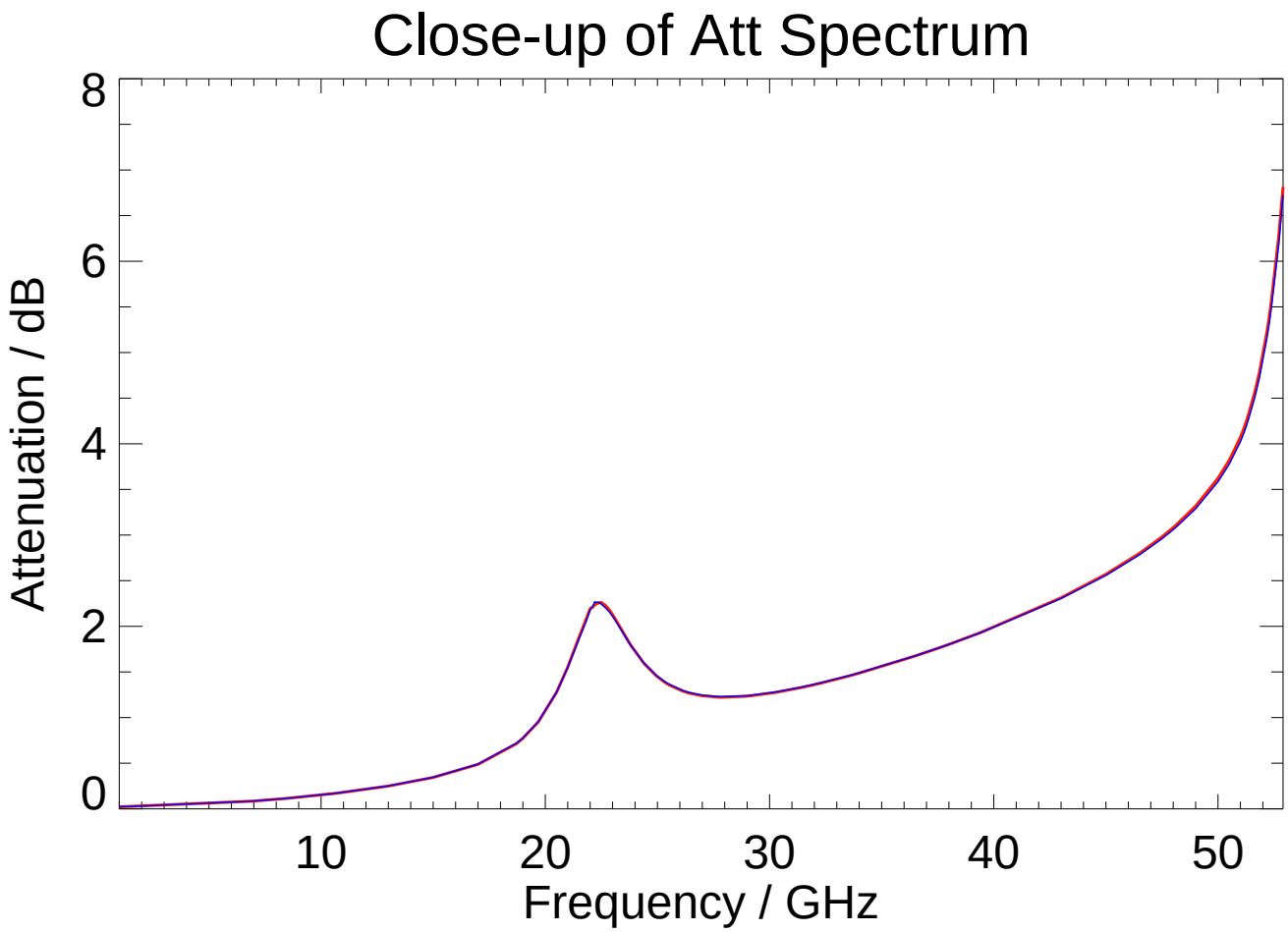
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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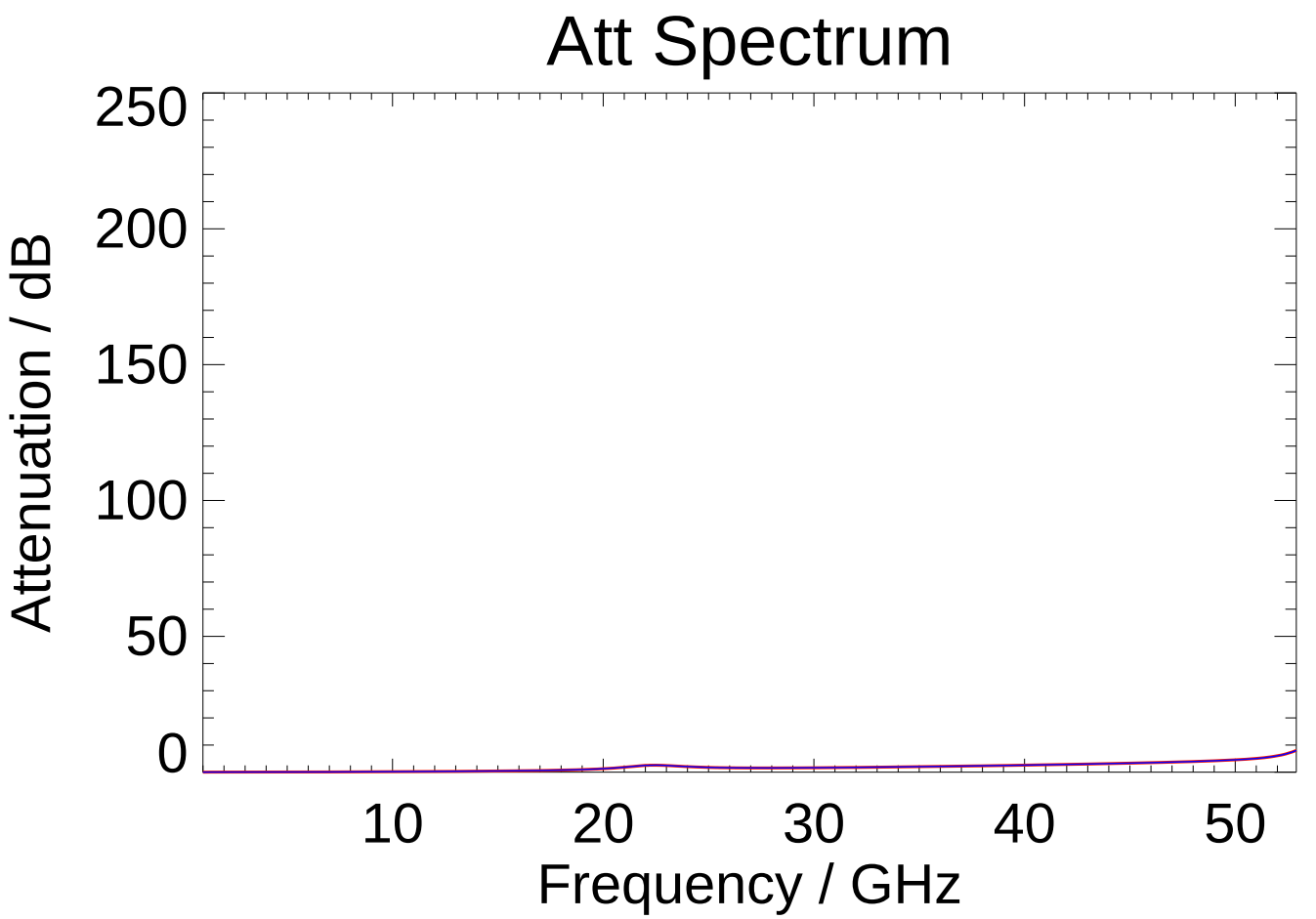
Frequency / GHz


Att Spectrum
Attenuation / dB
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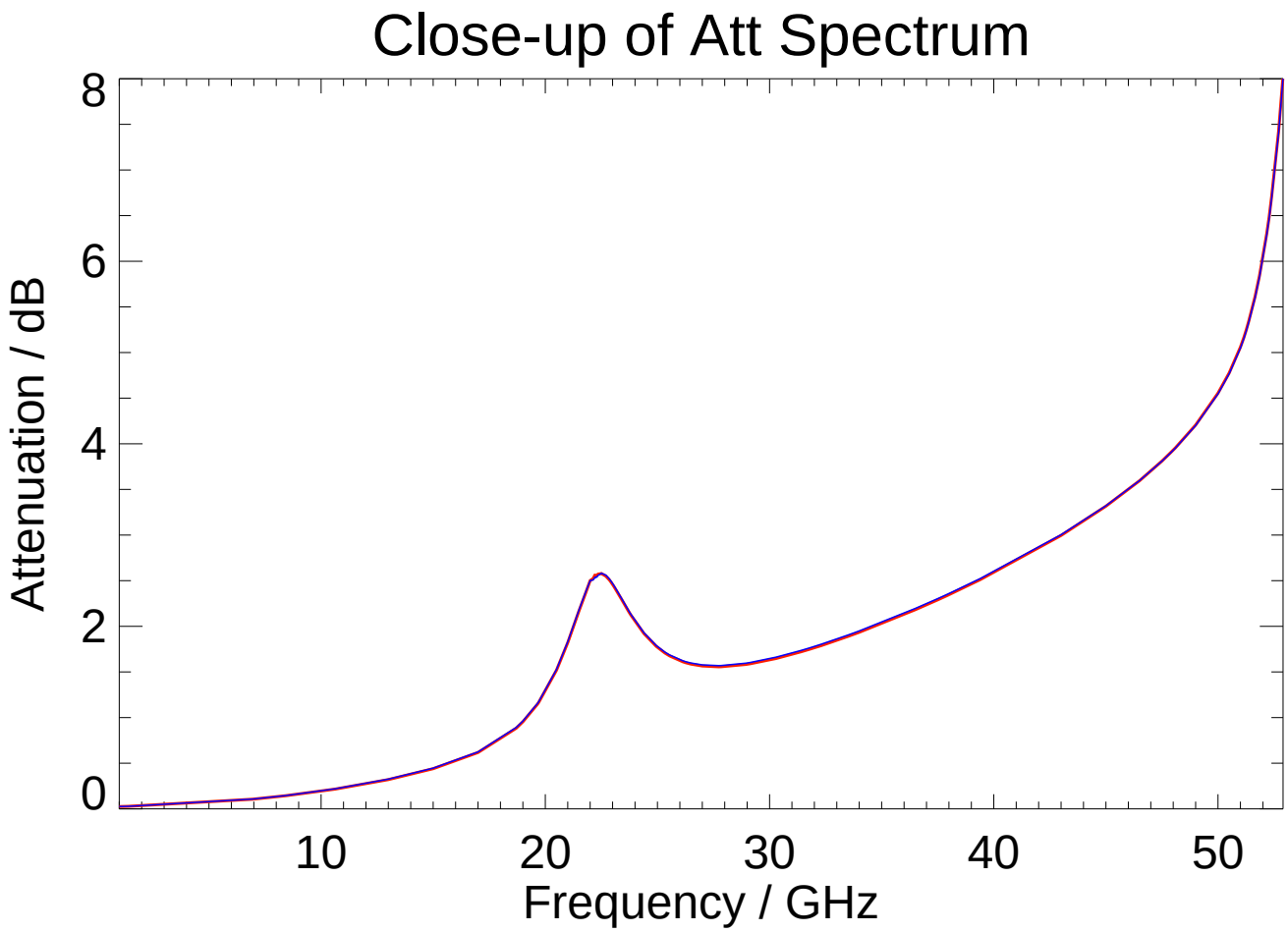
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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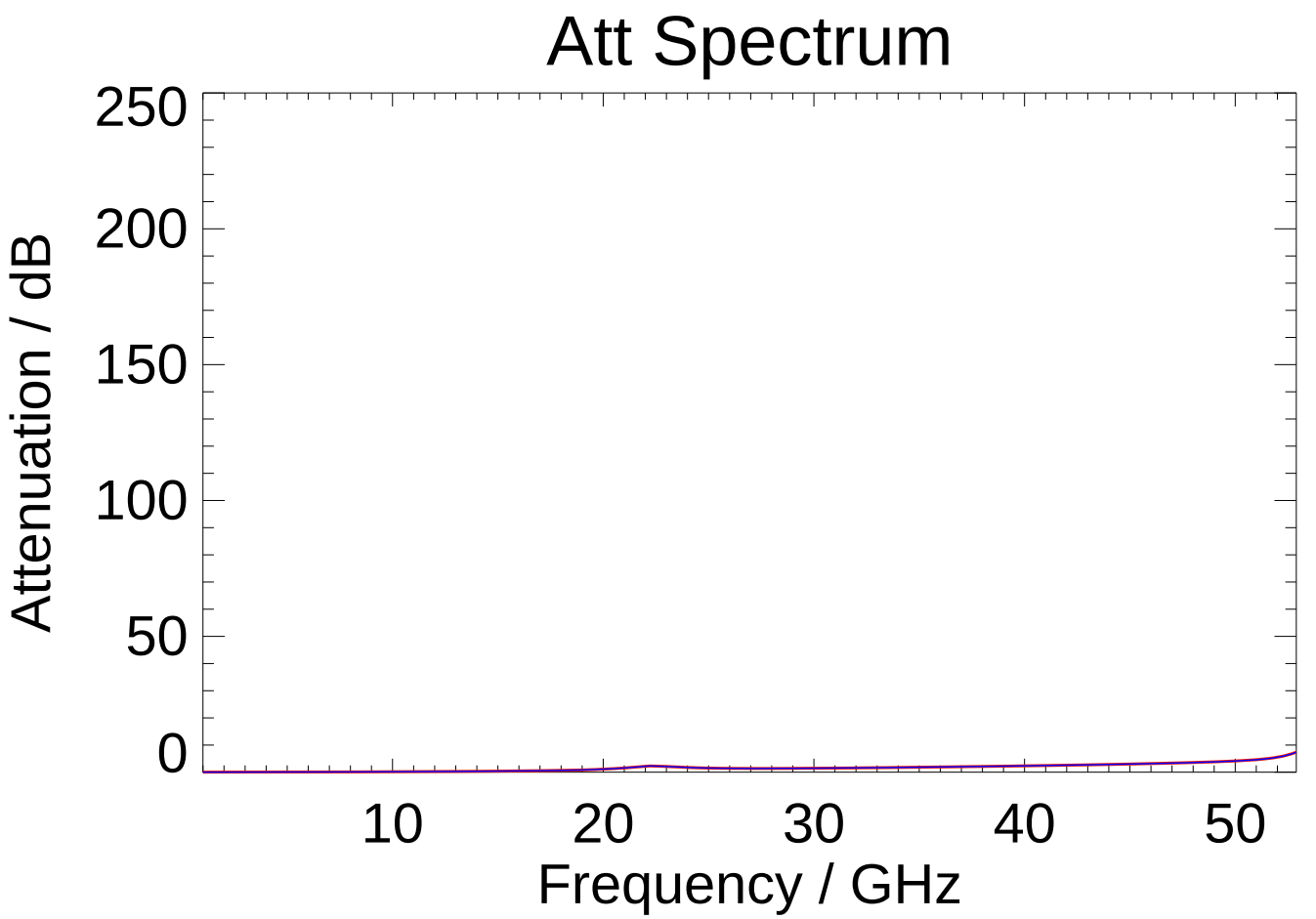
Frequency / GHz


Att Spectrum
Attenuation / dB
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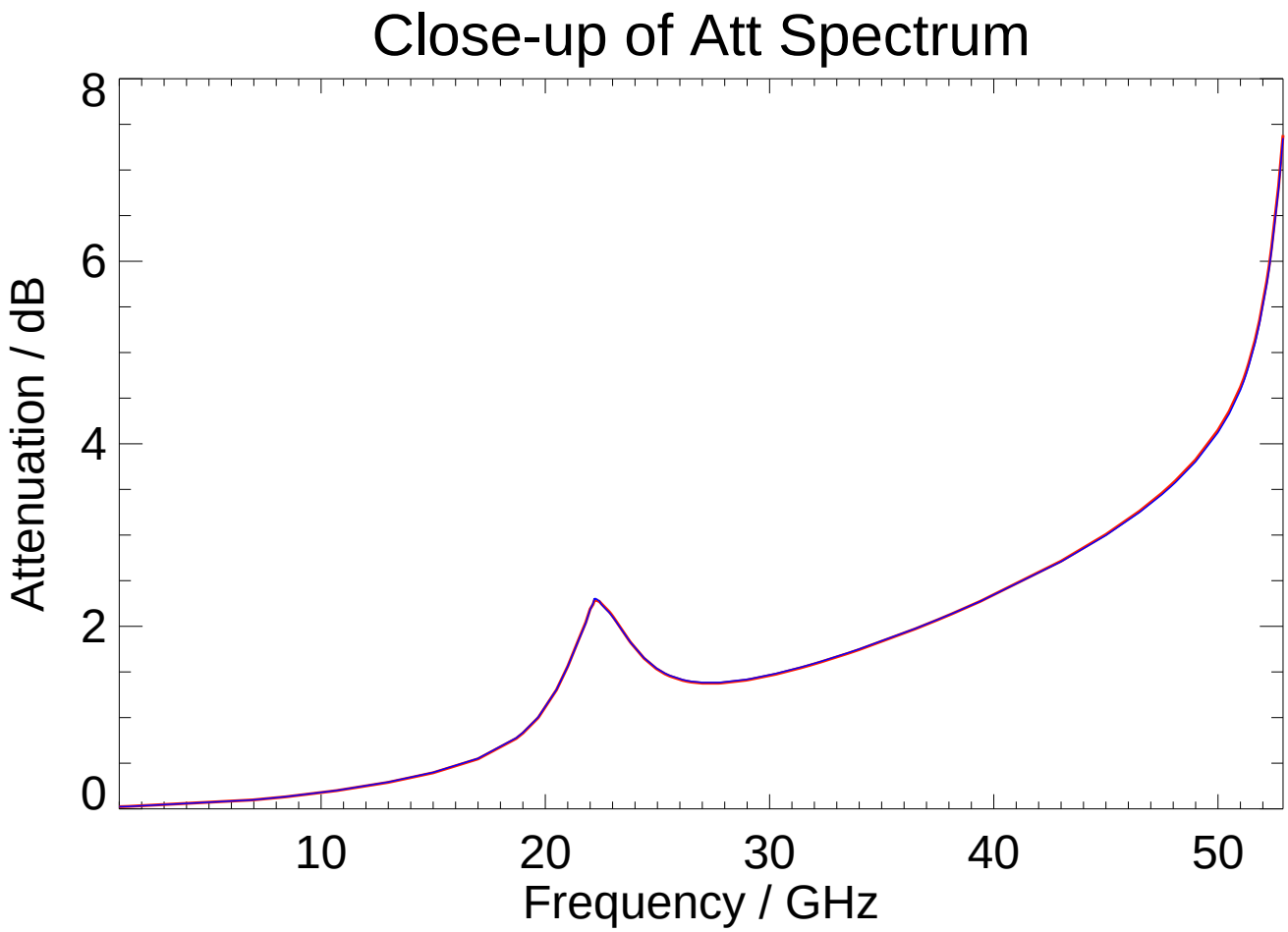
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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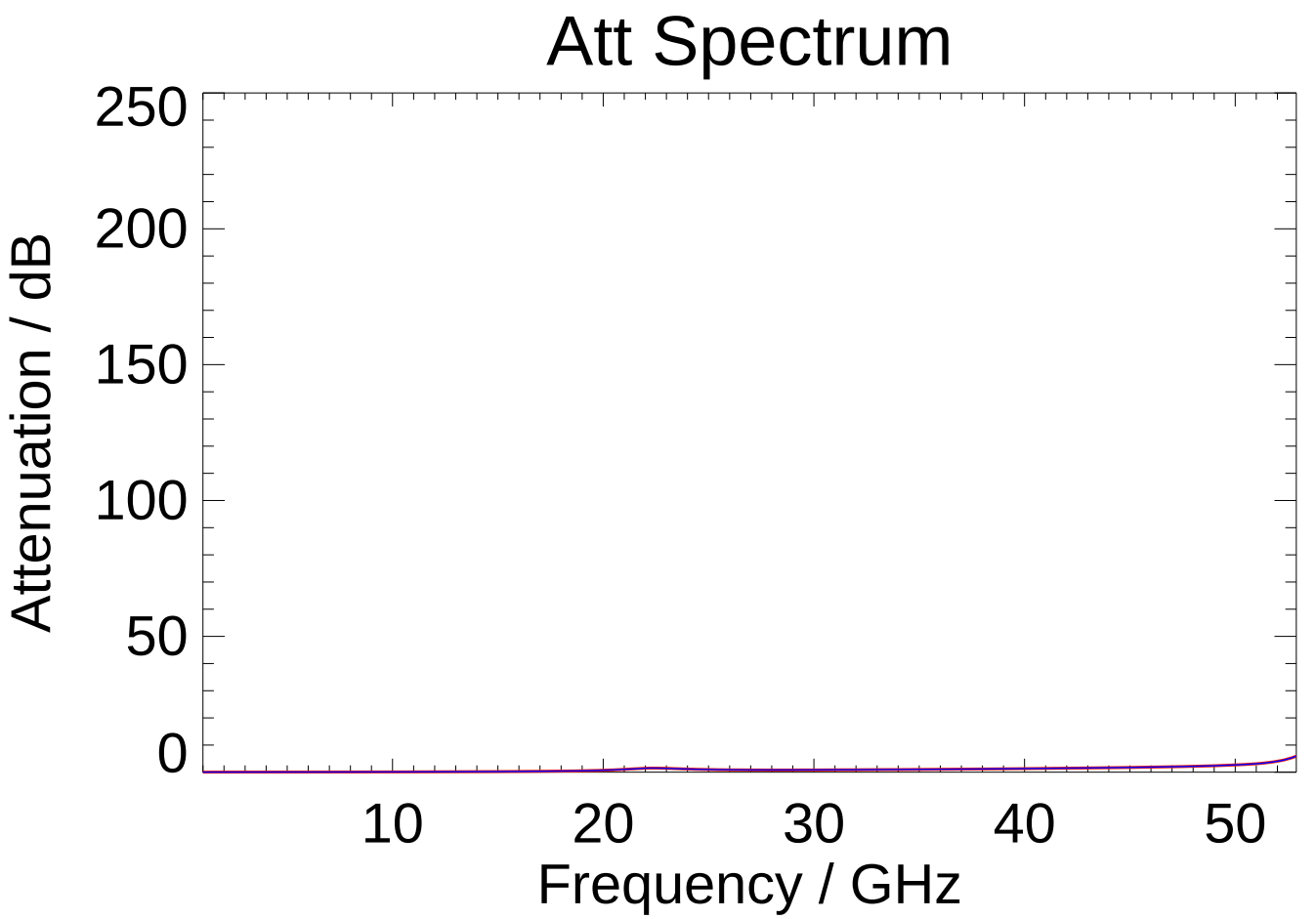
Frequency / GHz


Att Spectrum
Attenuation / dB
250
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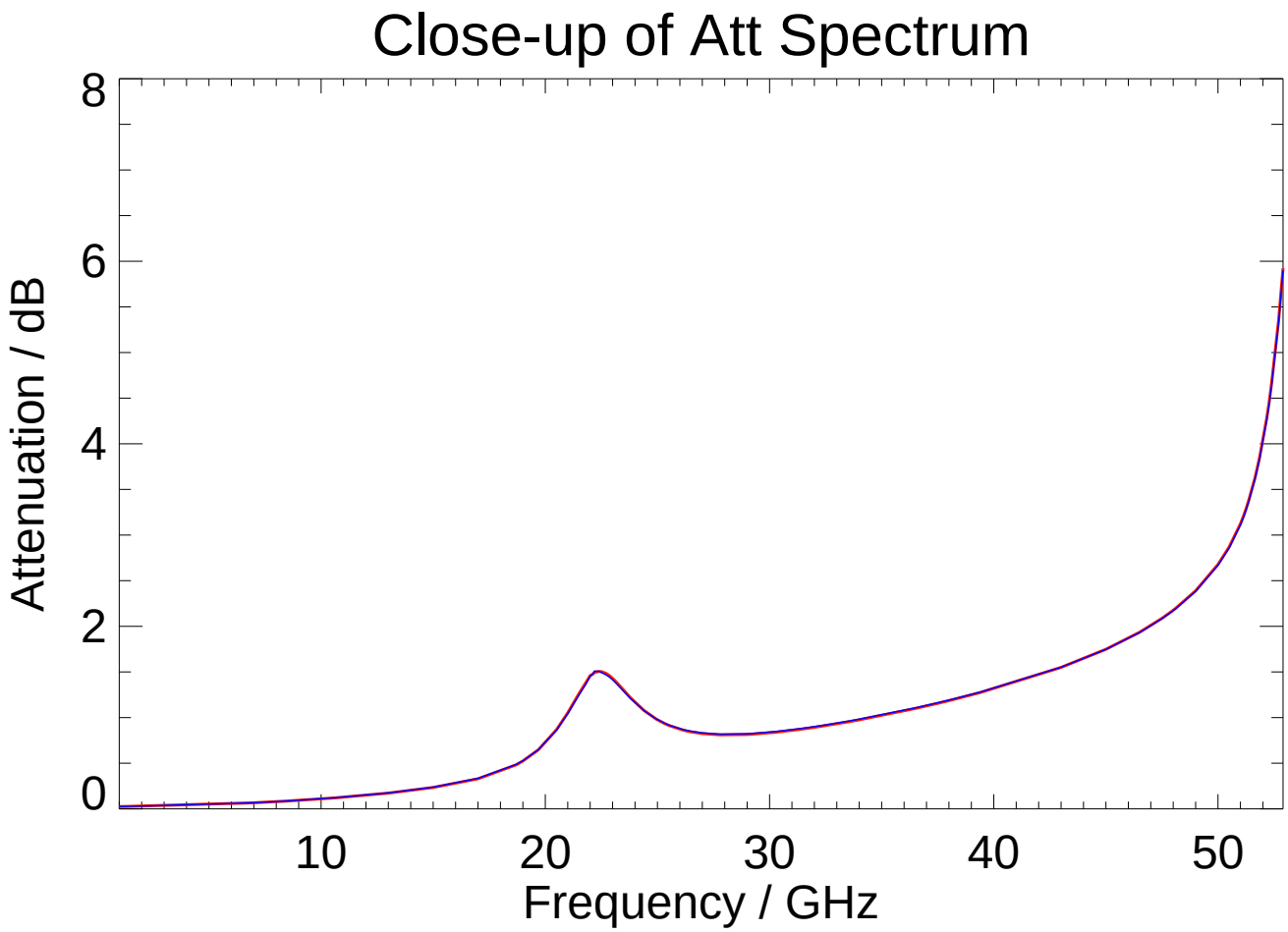
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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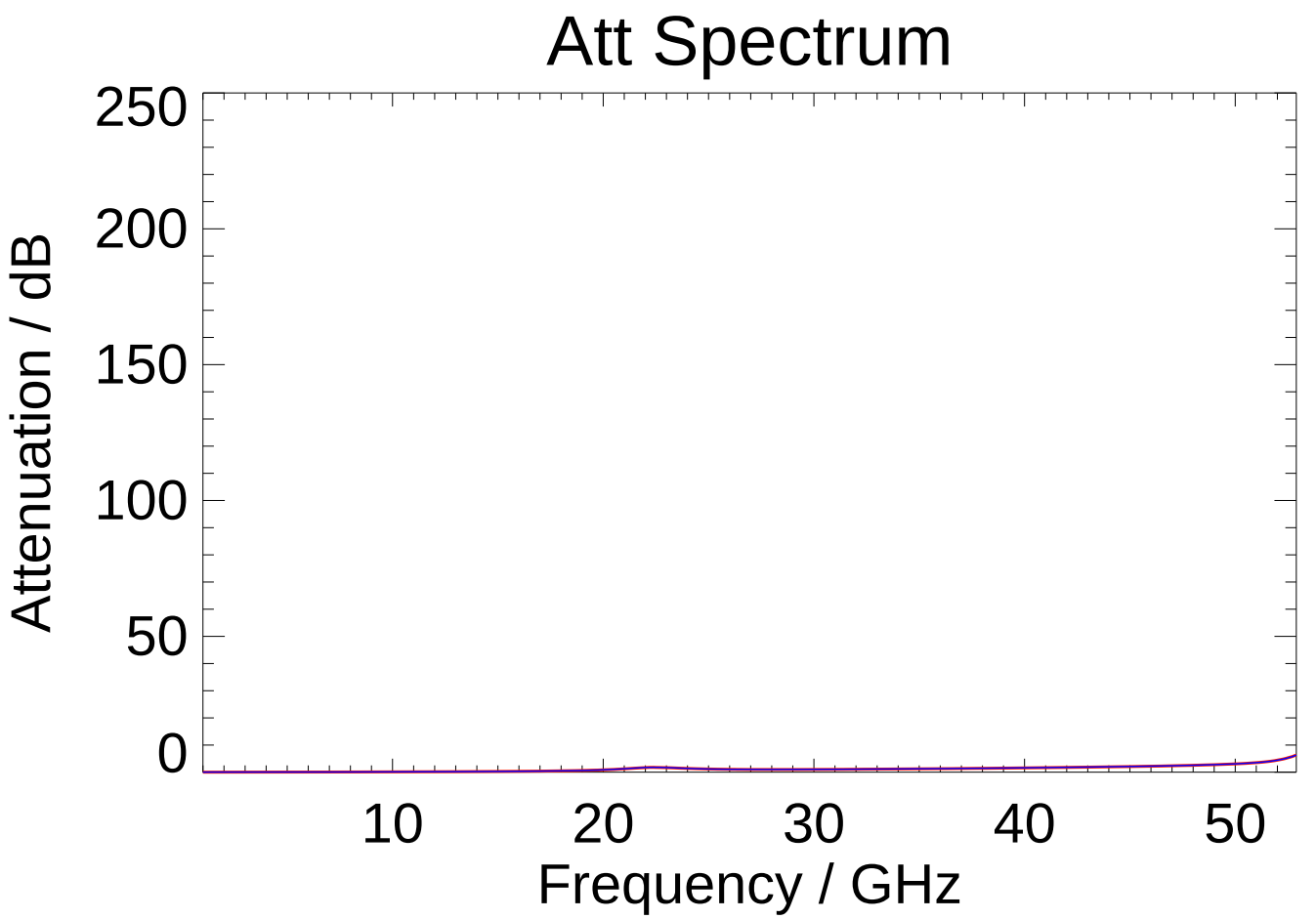
Frequency / GHz


Att Spectrum
Attenuation / dB
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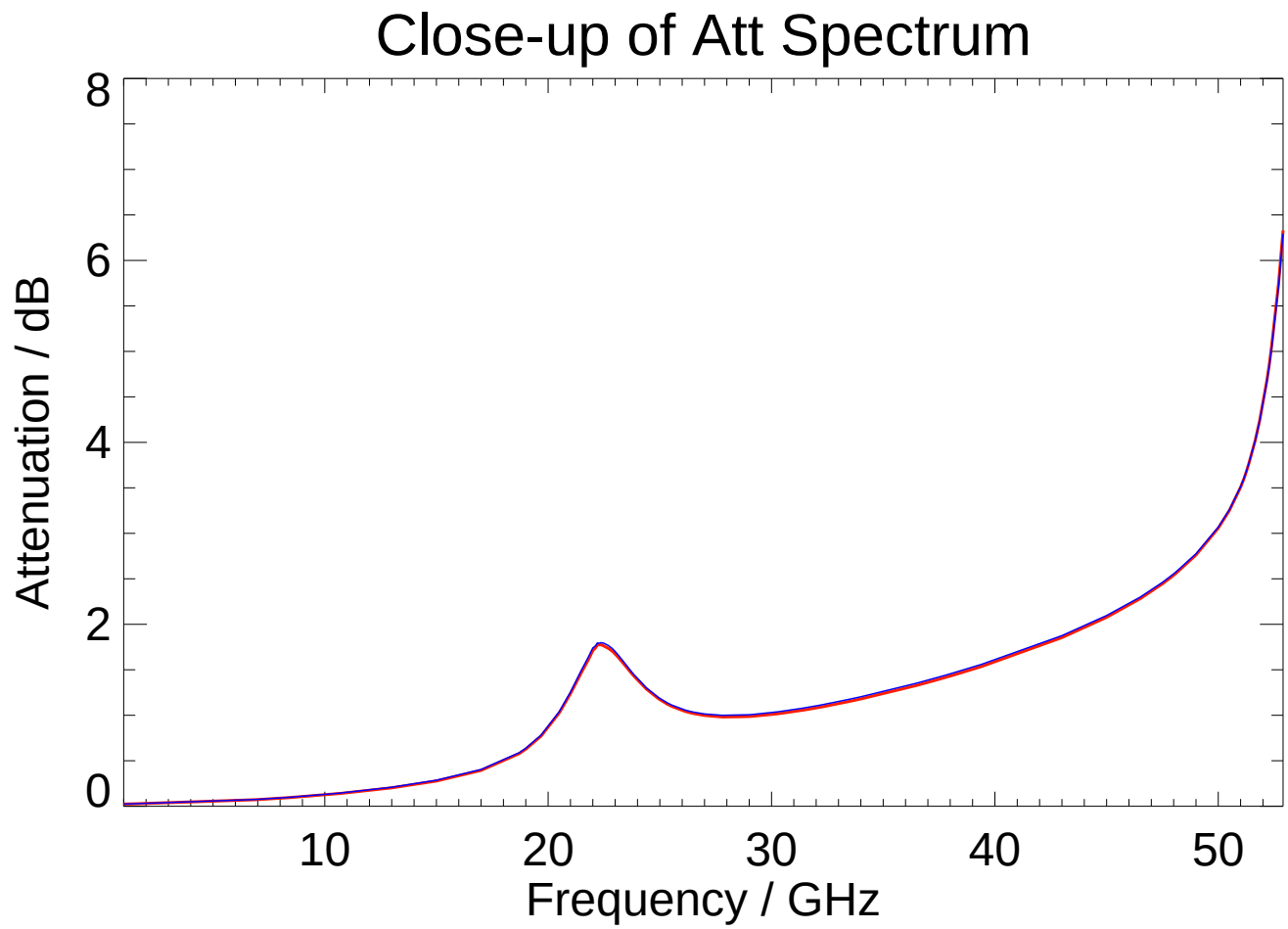
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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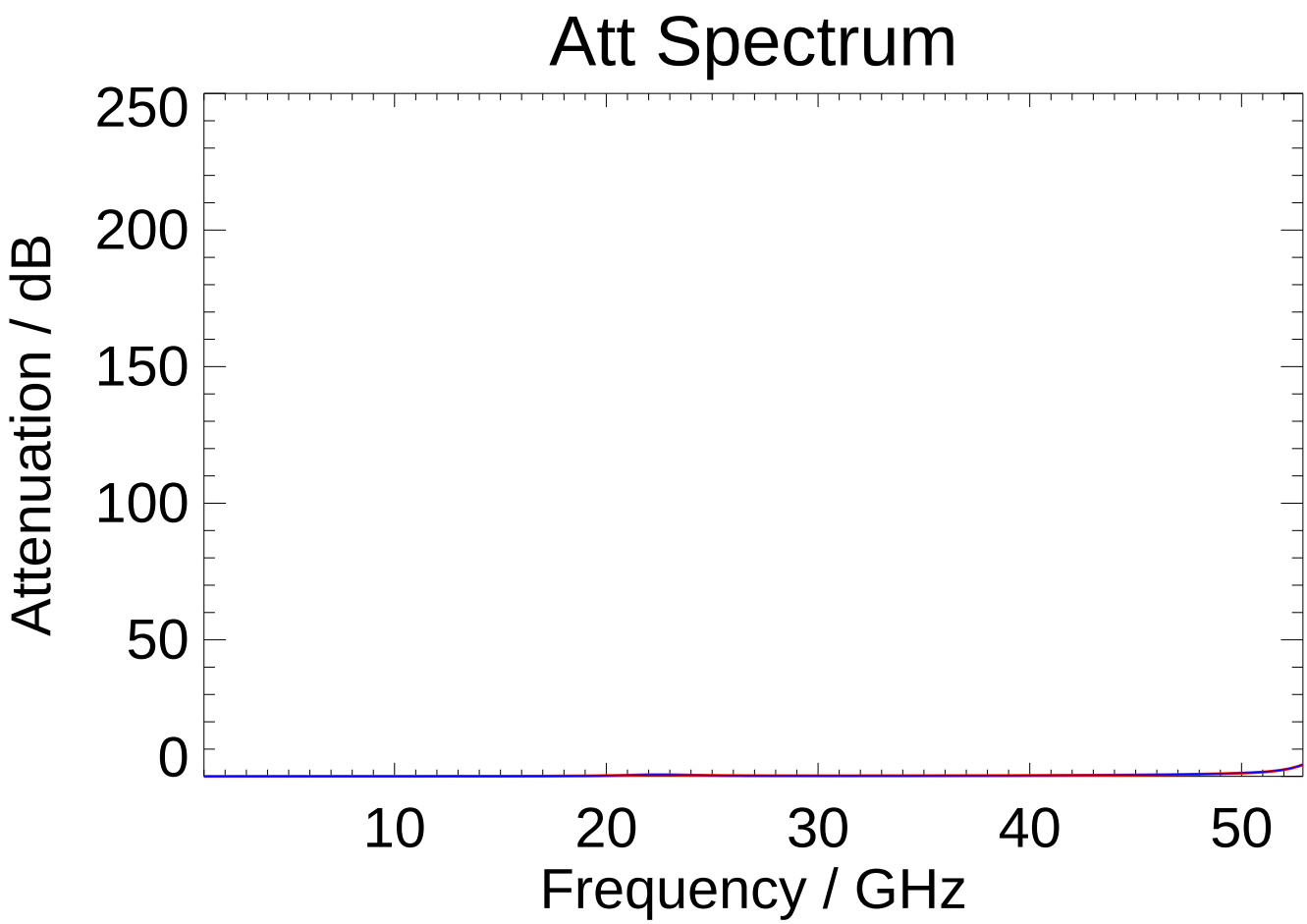
Frequency / GHz


Att Spectrum
Attenuation / dB
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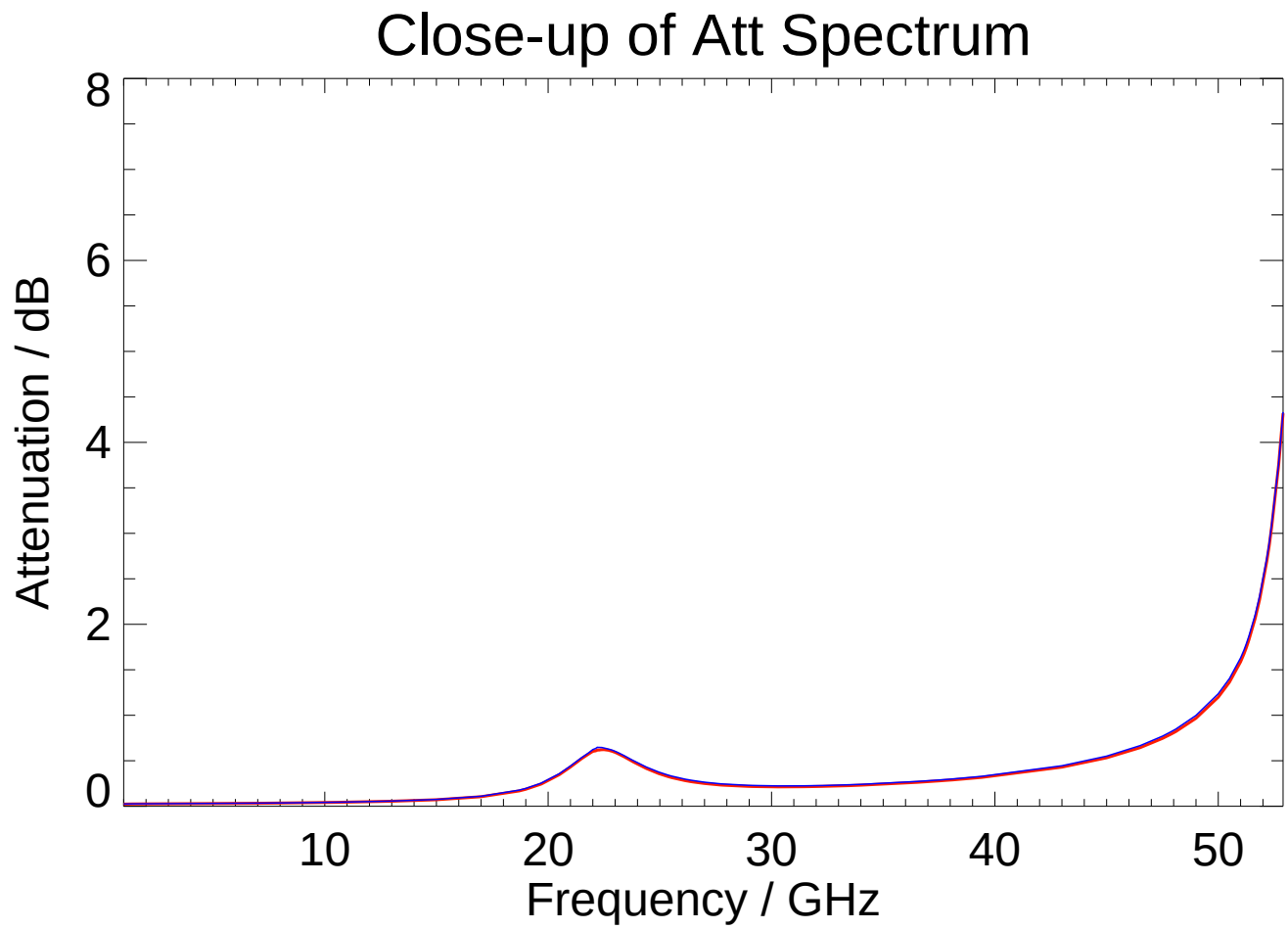
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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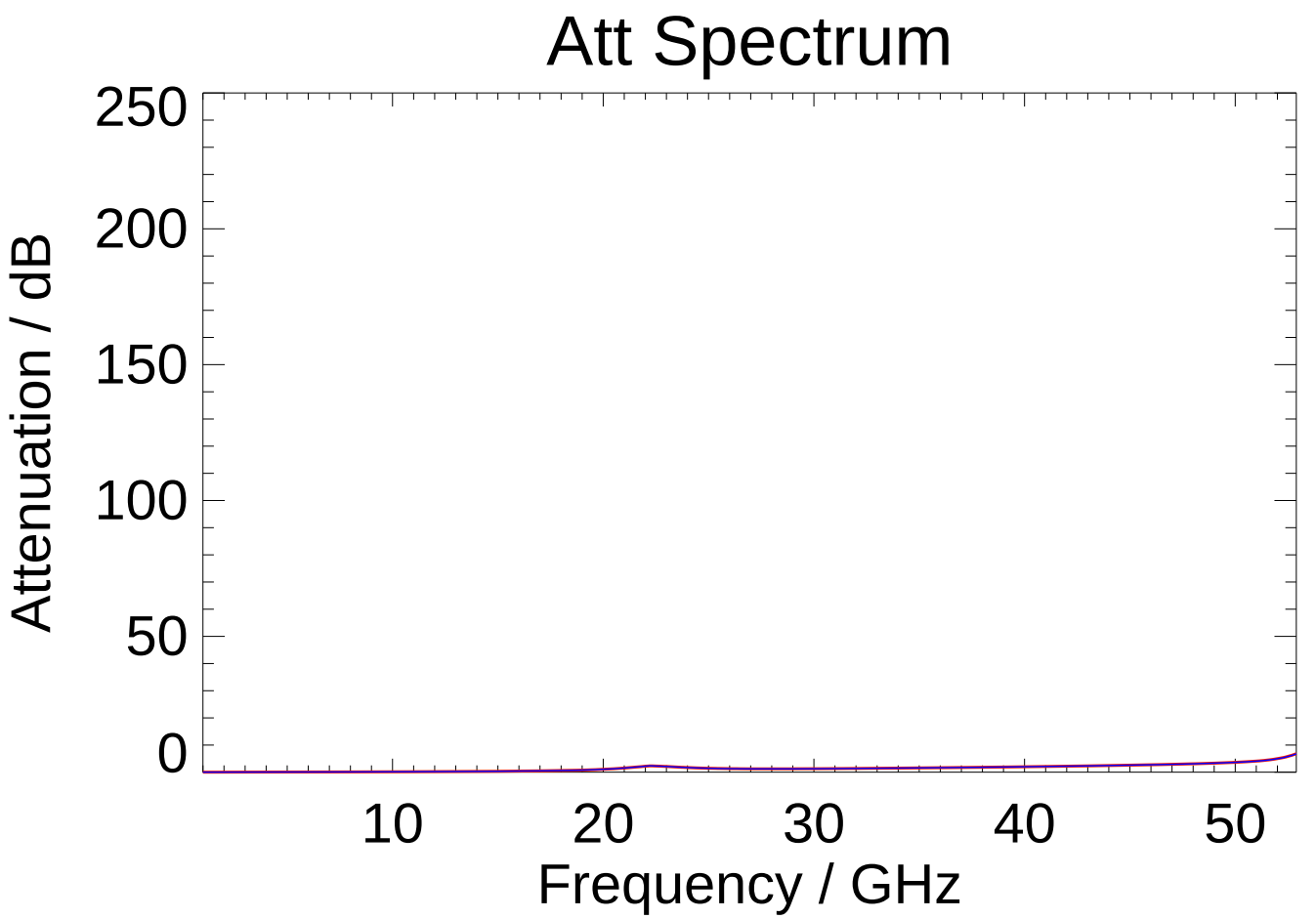
Frequency / GHz


Att Spectrum
Attenuation / dB
250
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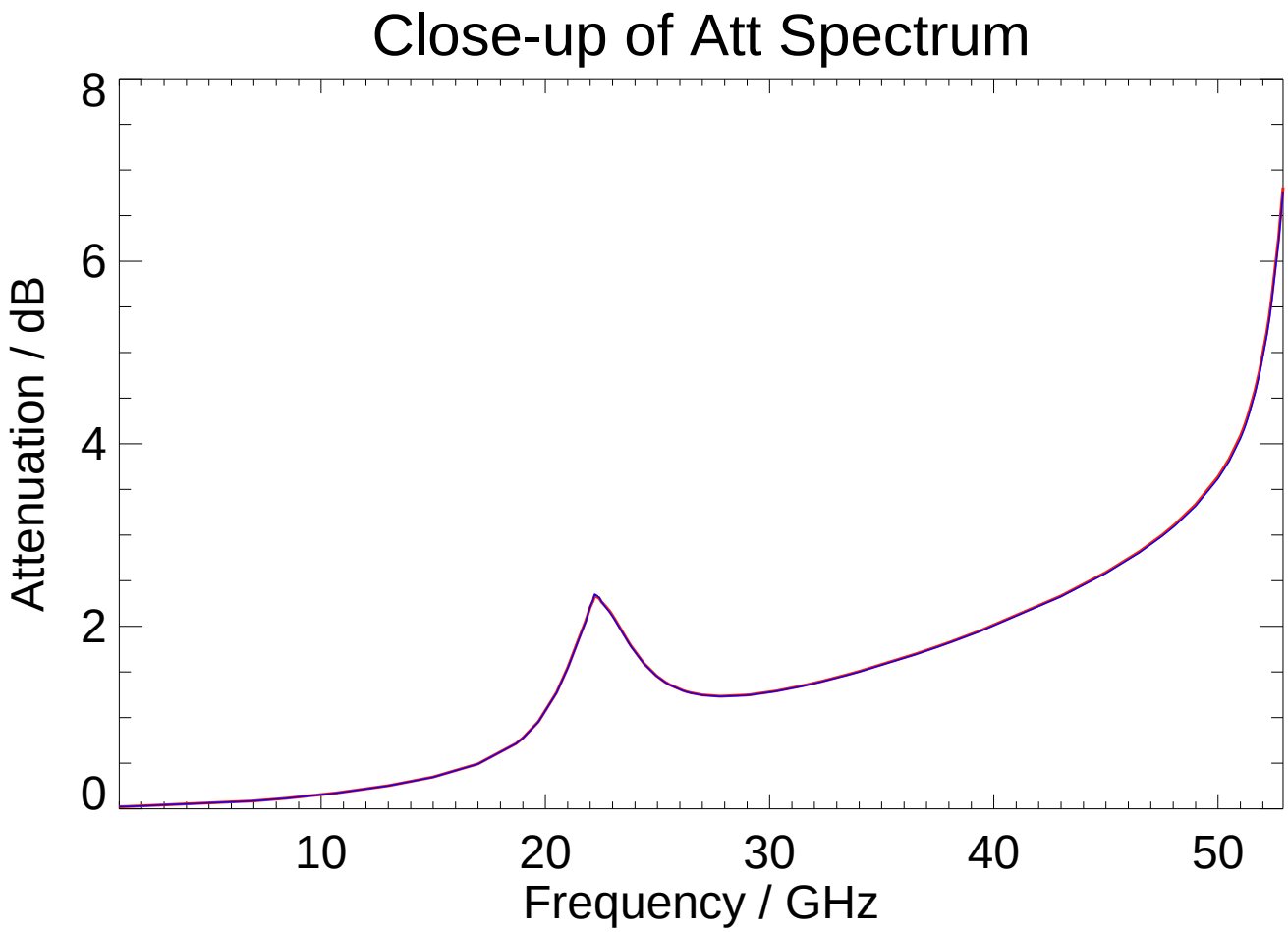
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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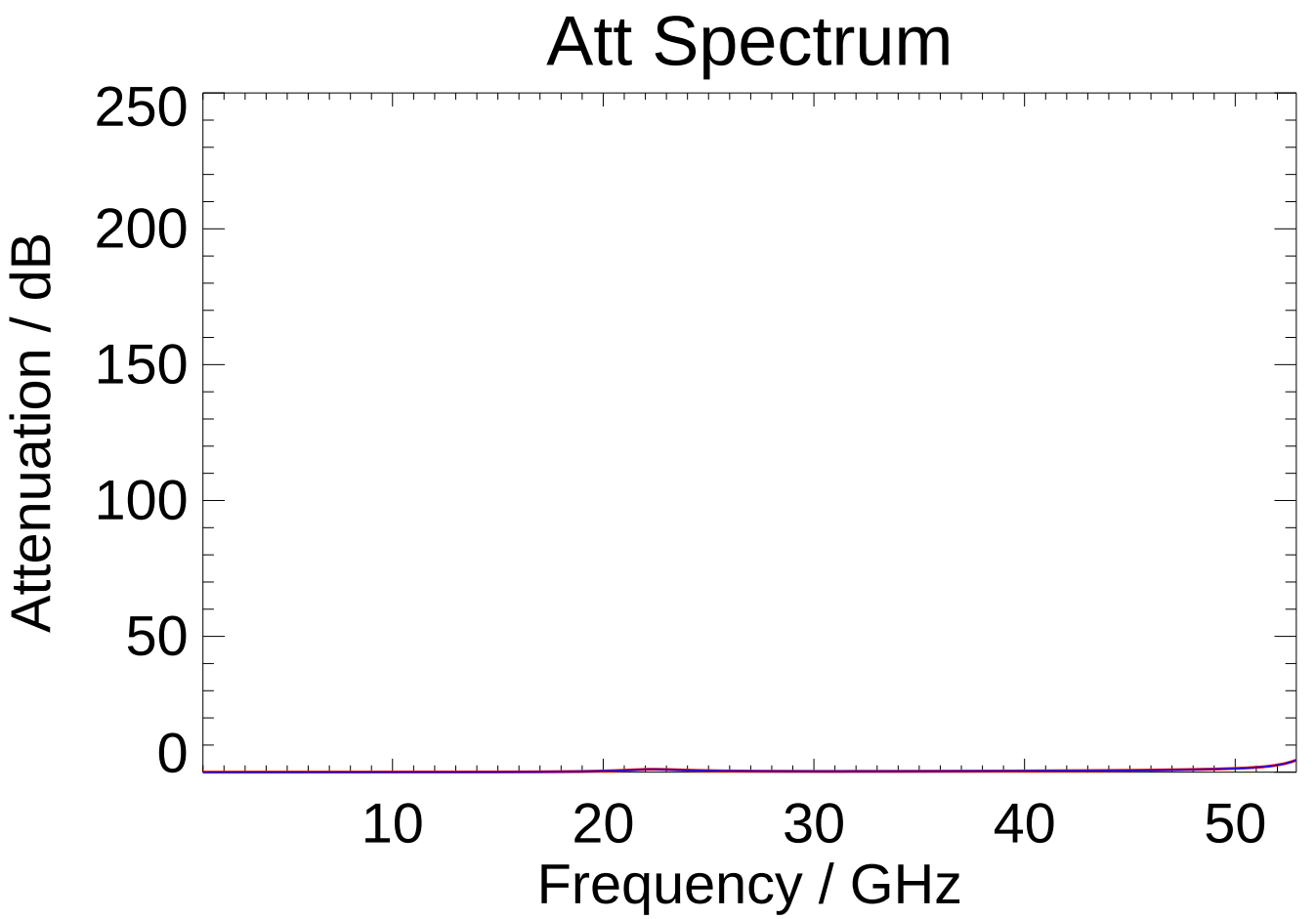
Frequency / GHz


Att Spectrum
Attenuation / dB
250
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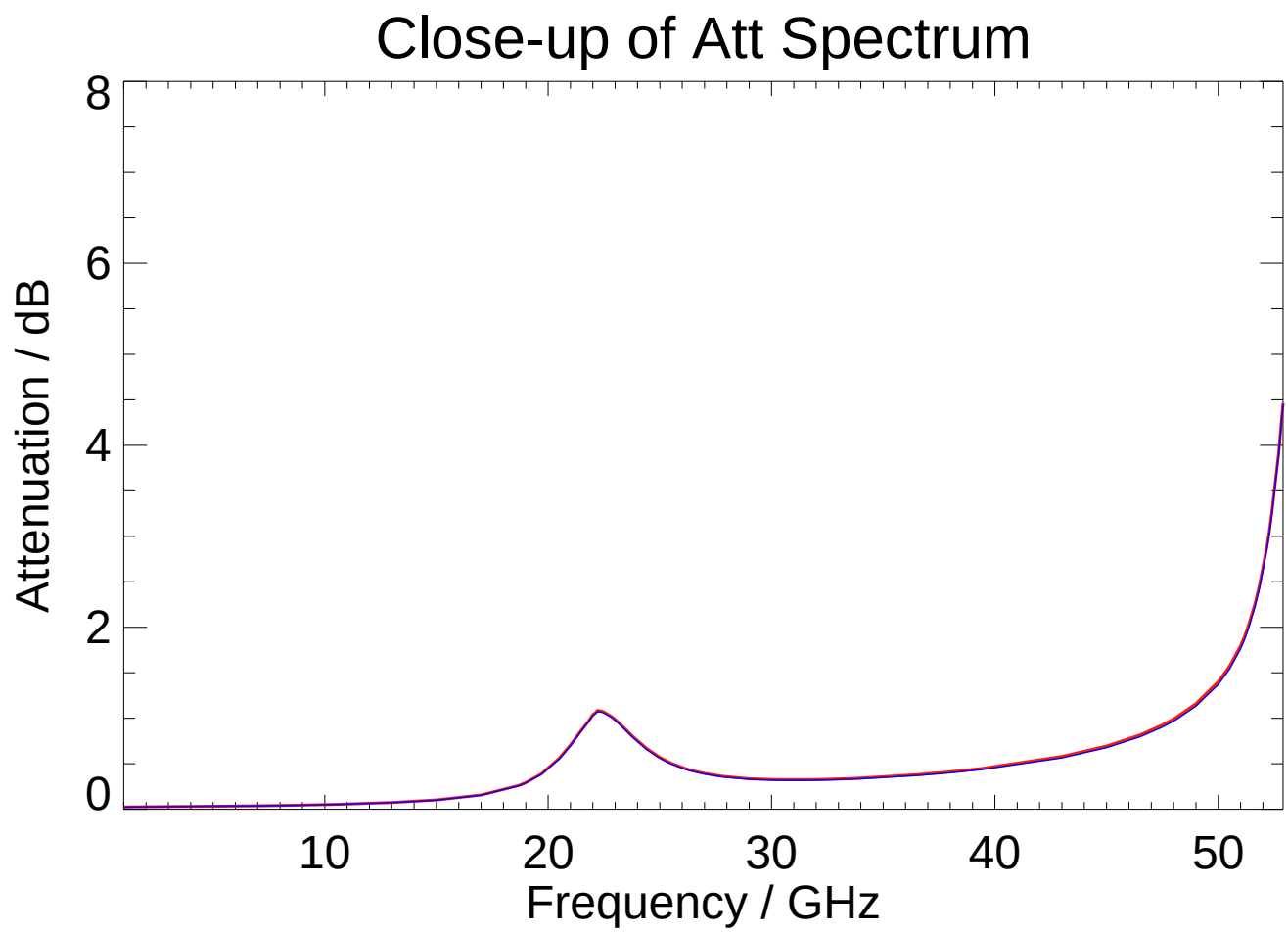
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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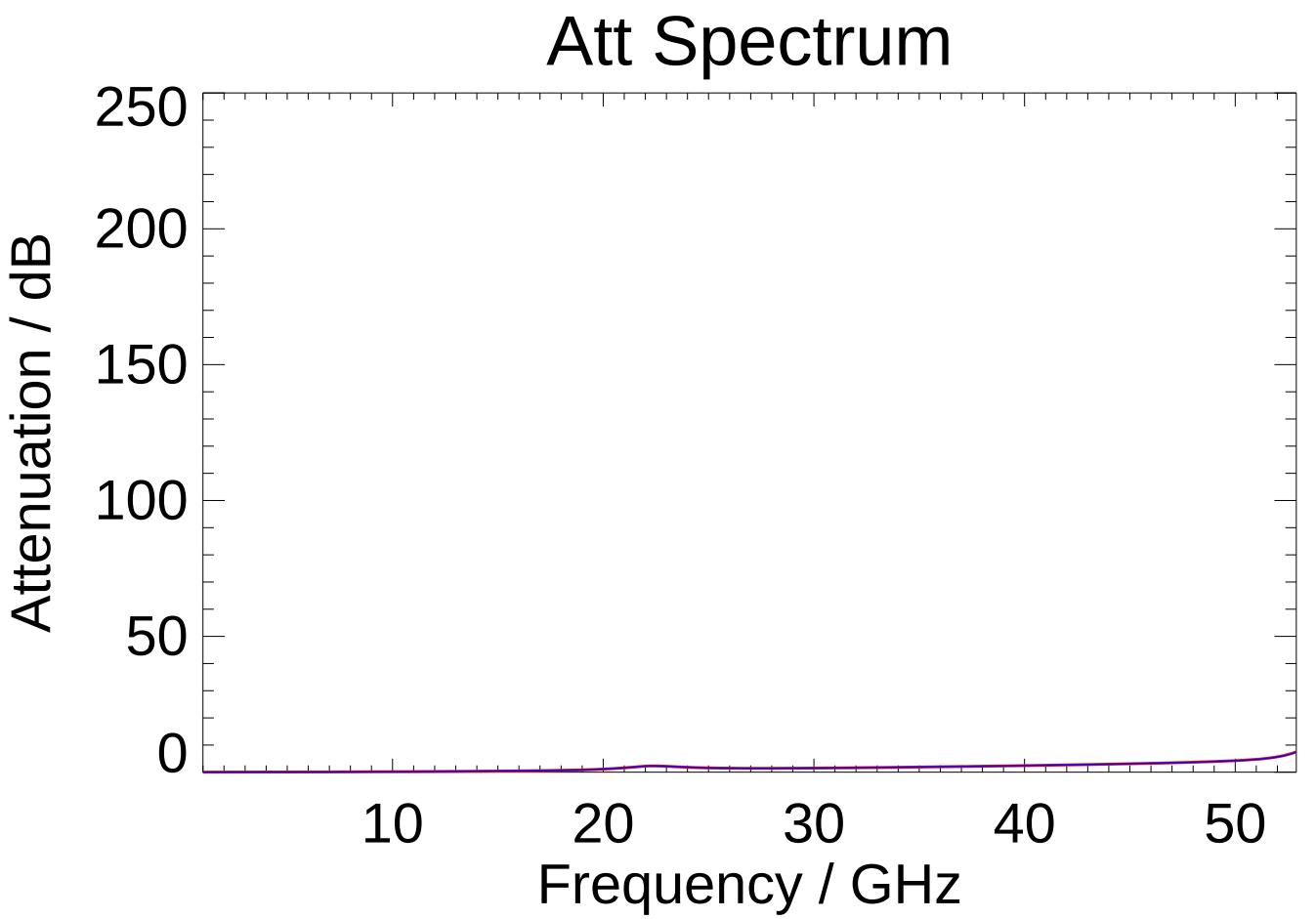
Frequency / GHz


Att Spectrum
Attenuation / dB
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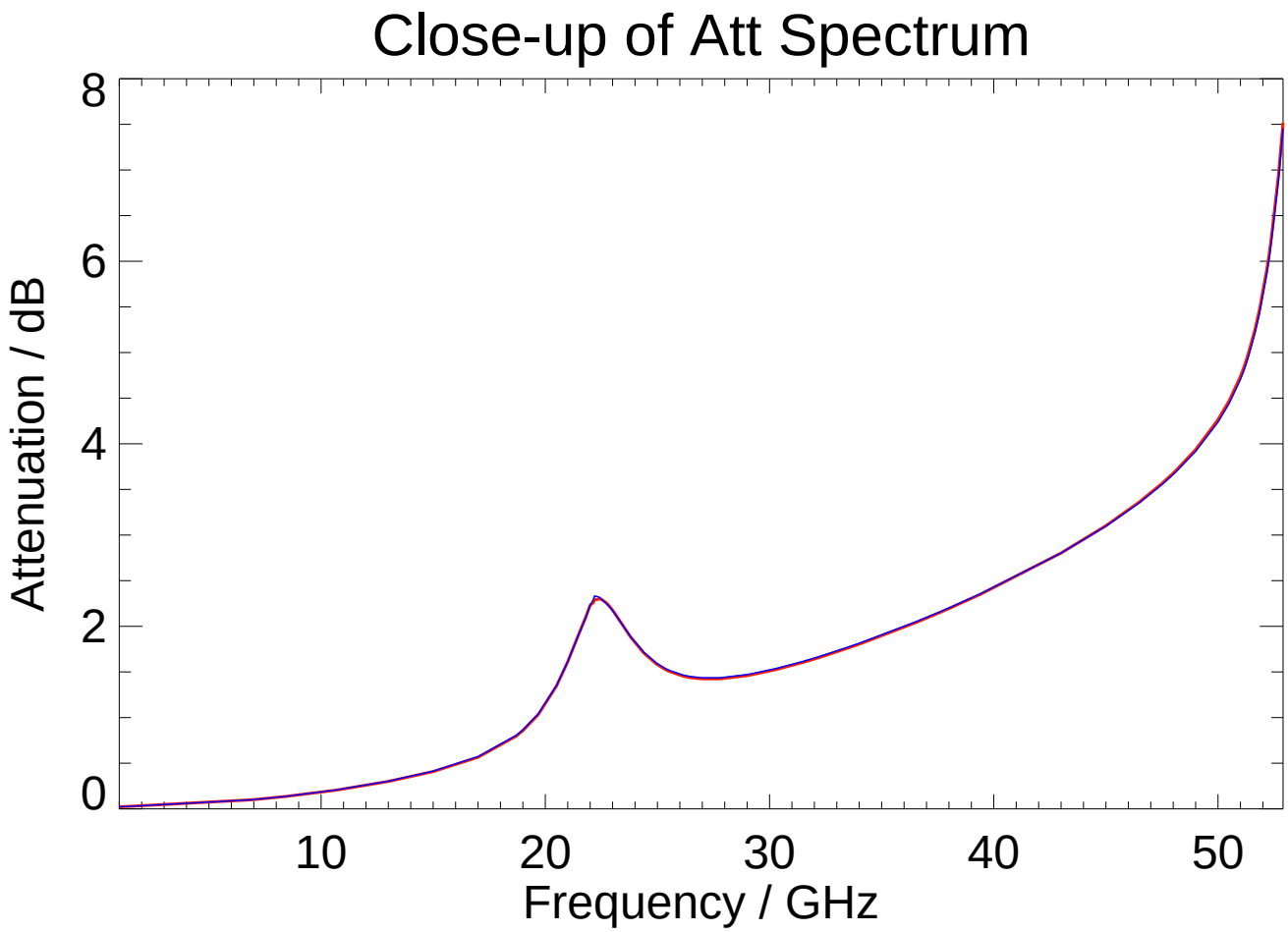
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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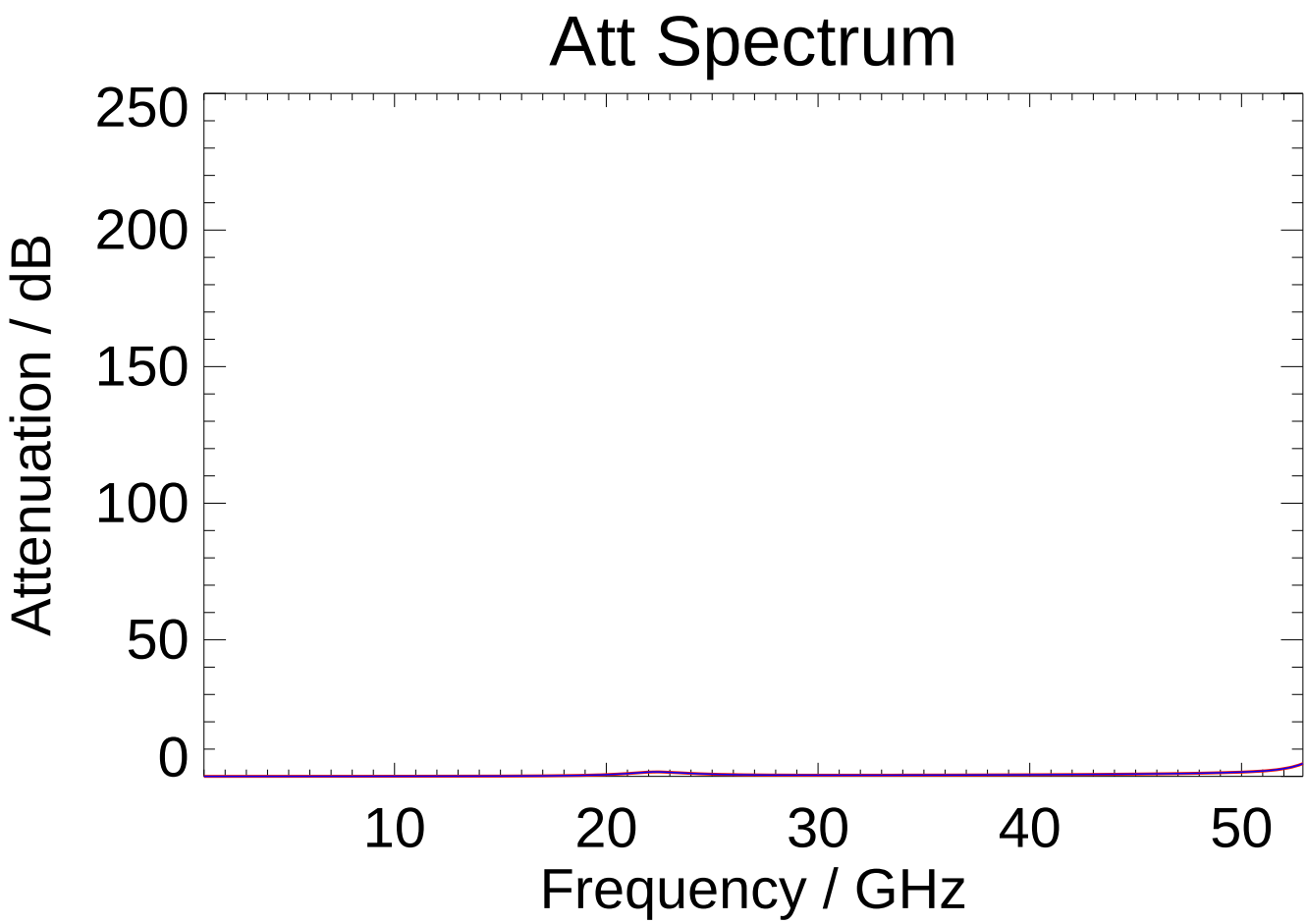
Frequency / GHz


Att Spectrum
Attenuation / dB
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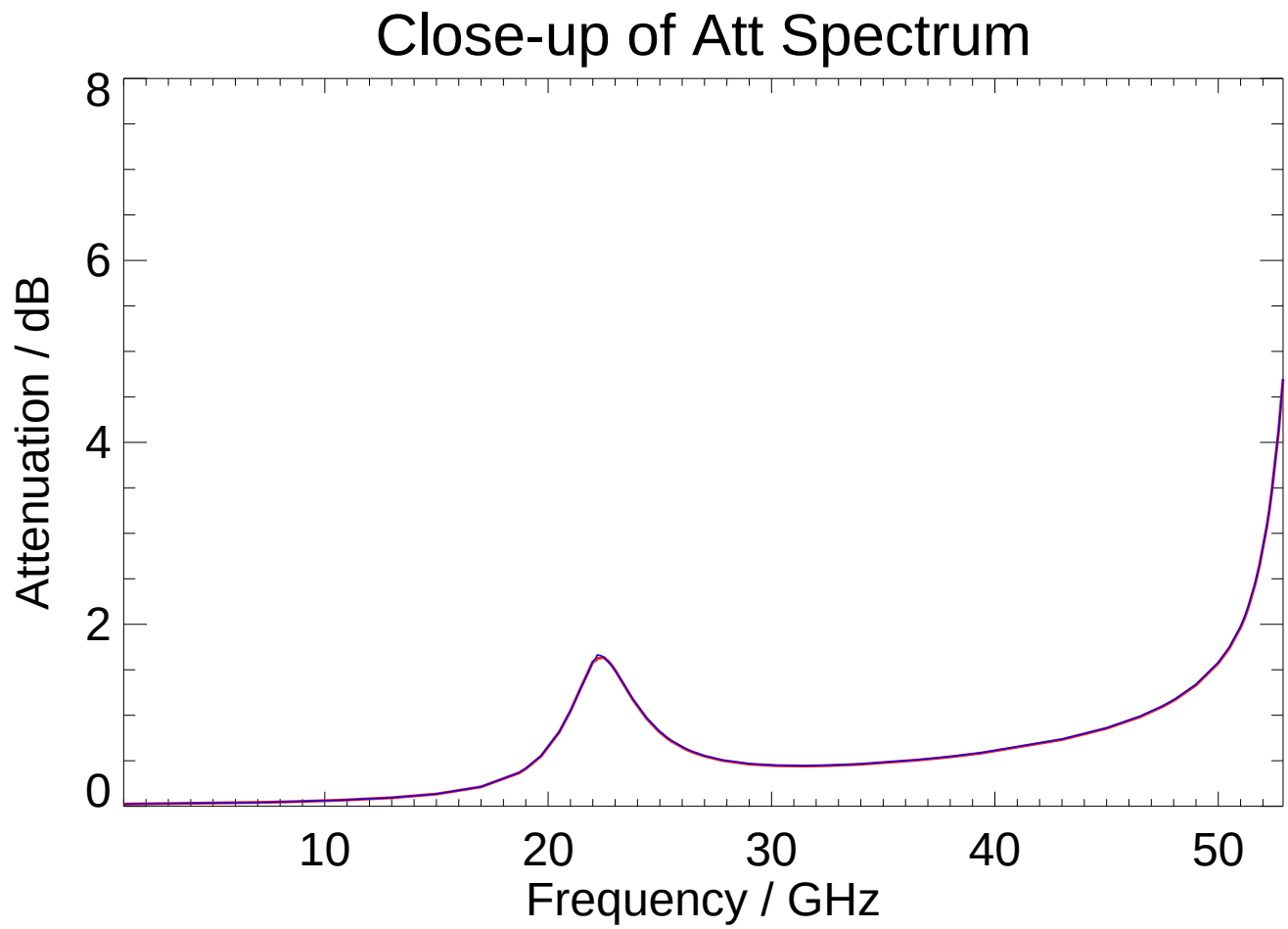
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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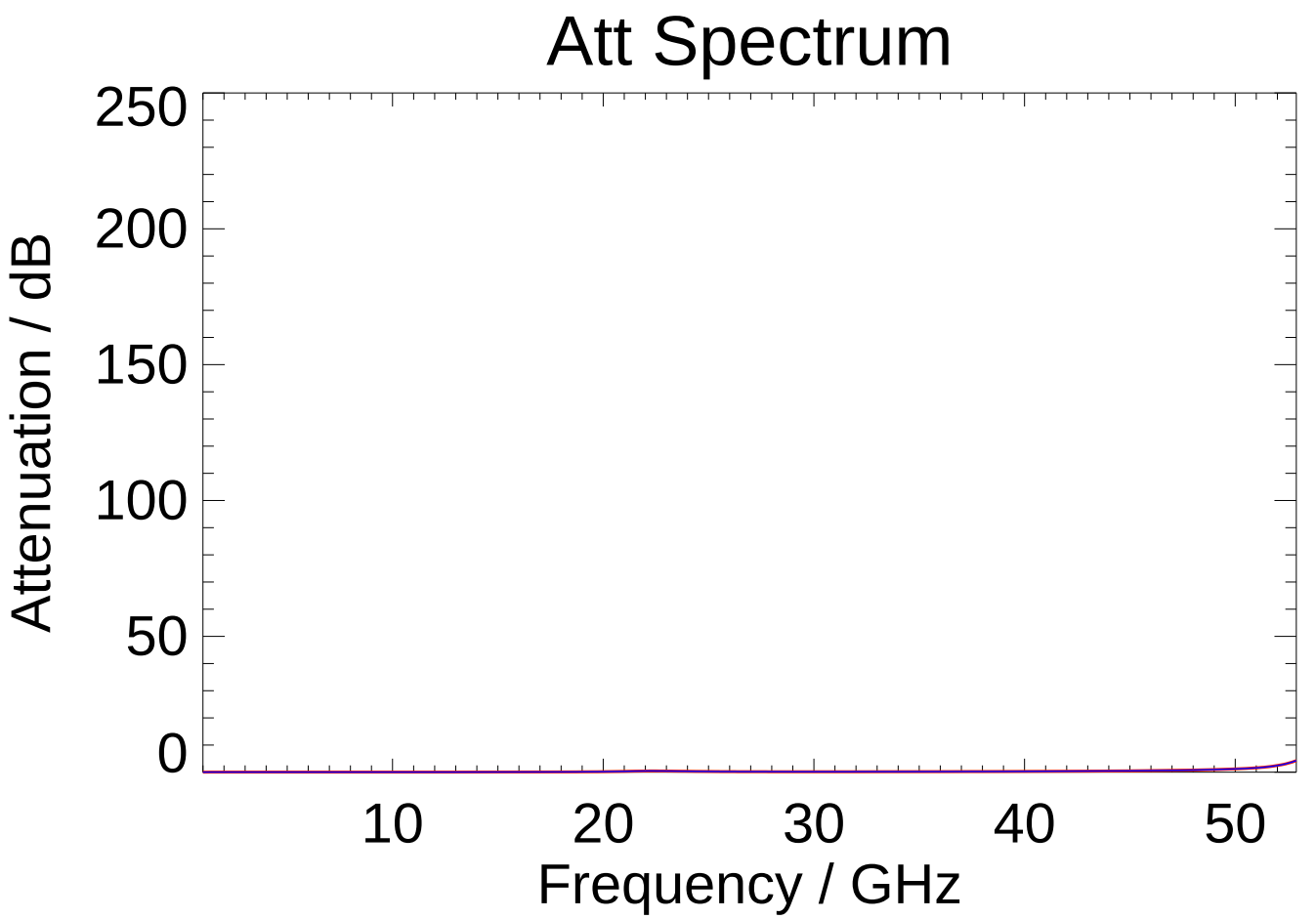
Frequency / GHz


Att Spectrum
Attenuation / dB
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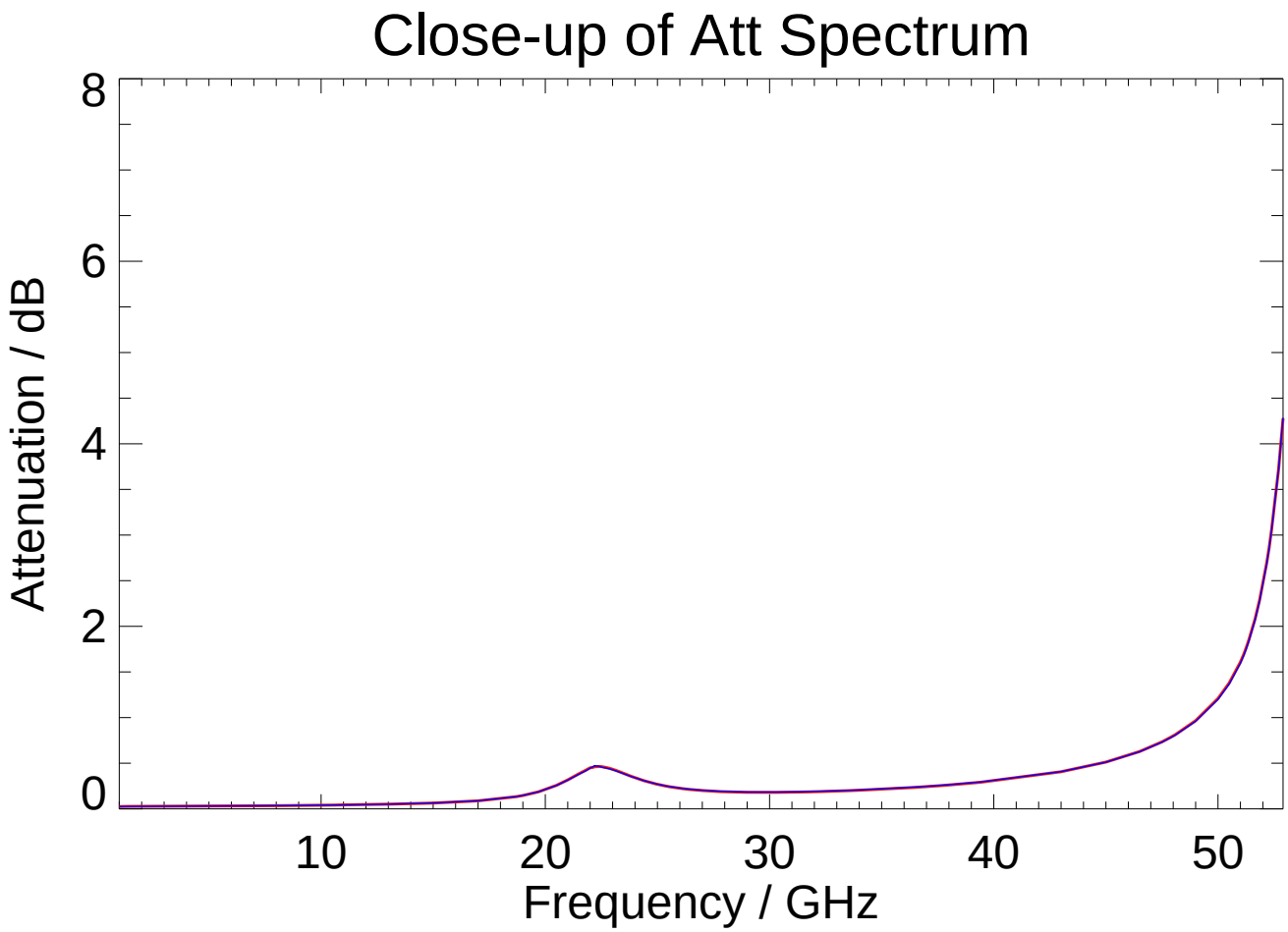
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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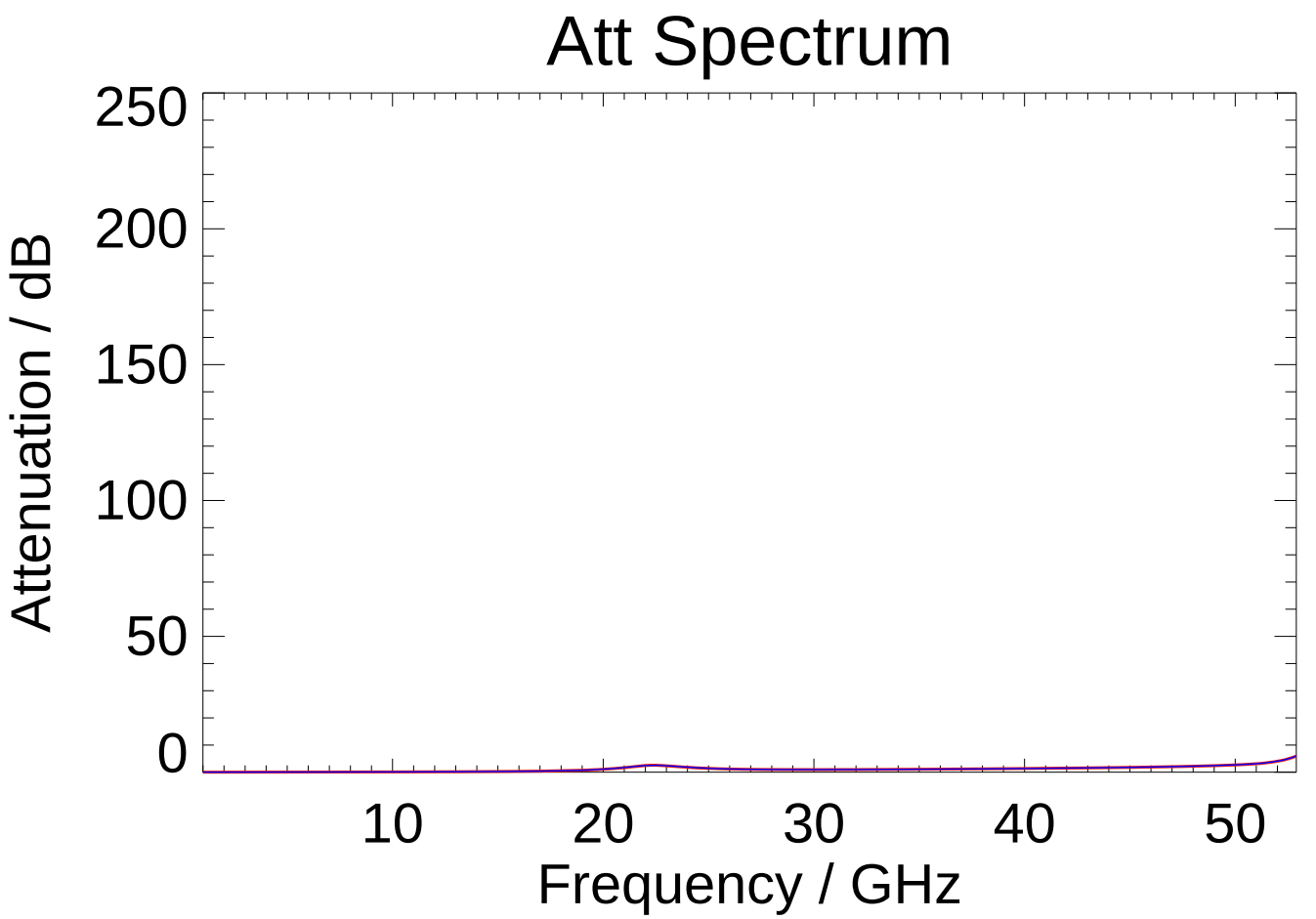
Frequency / GHz


Att Spectrum
Attenuation / dB
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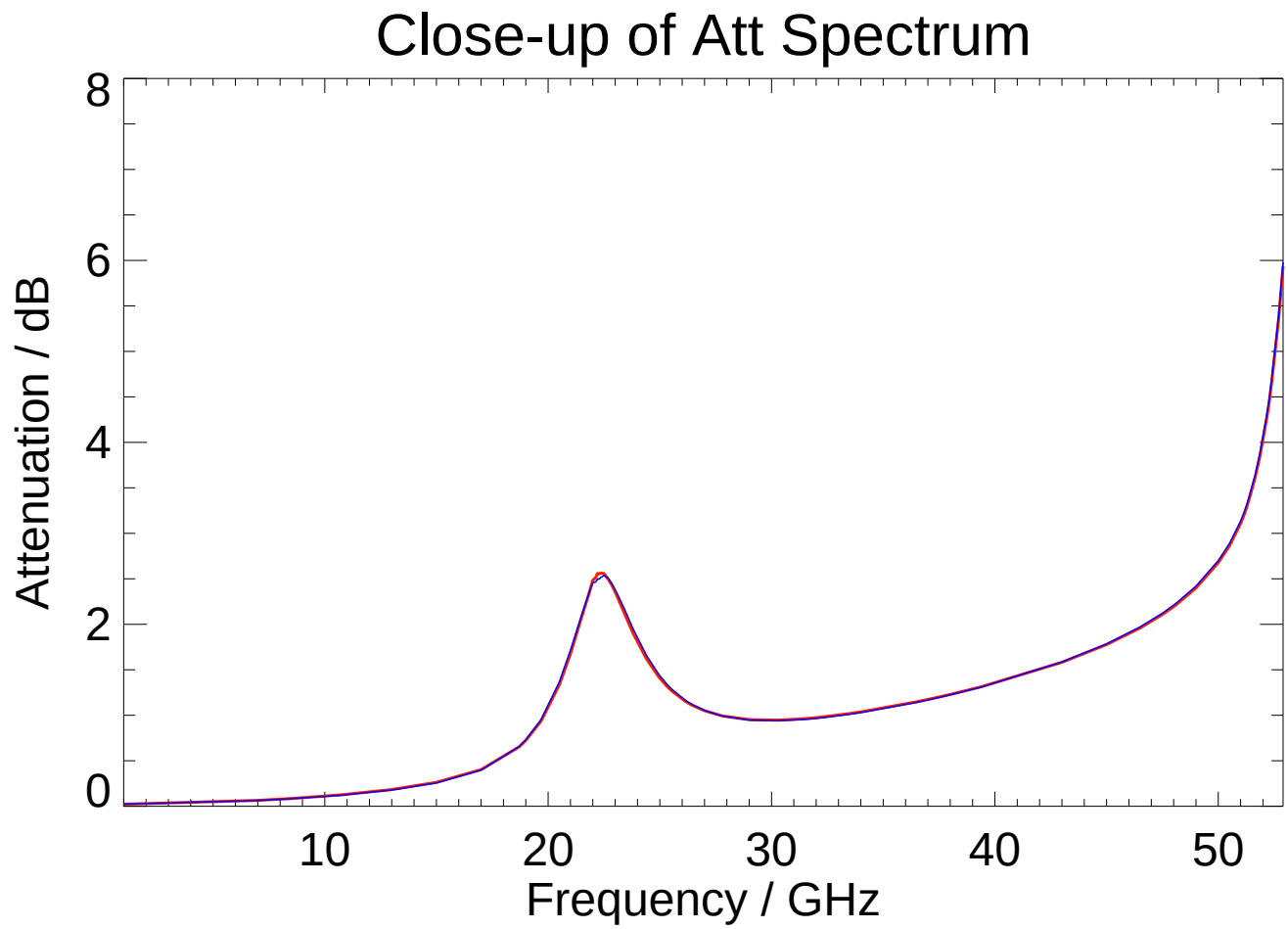
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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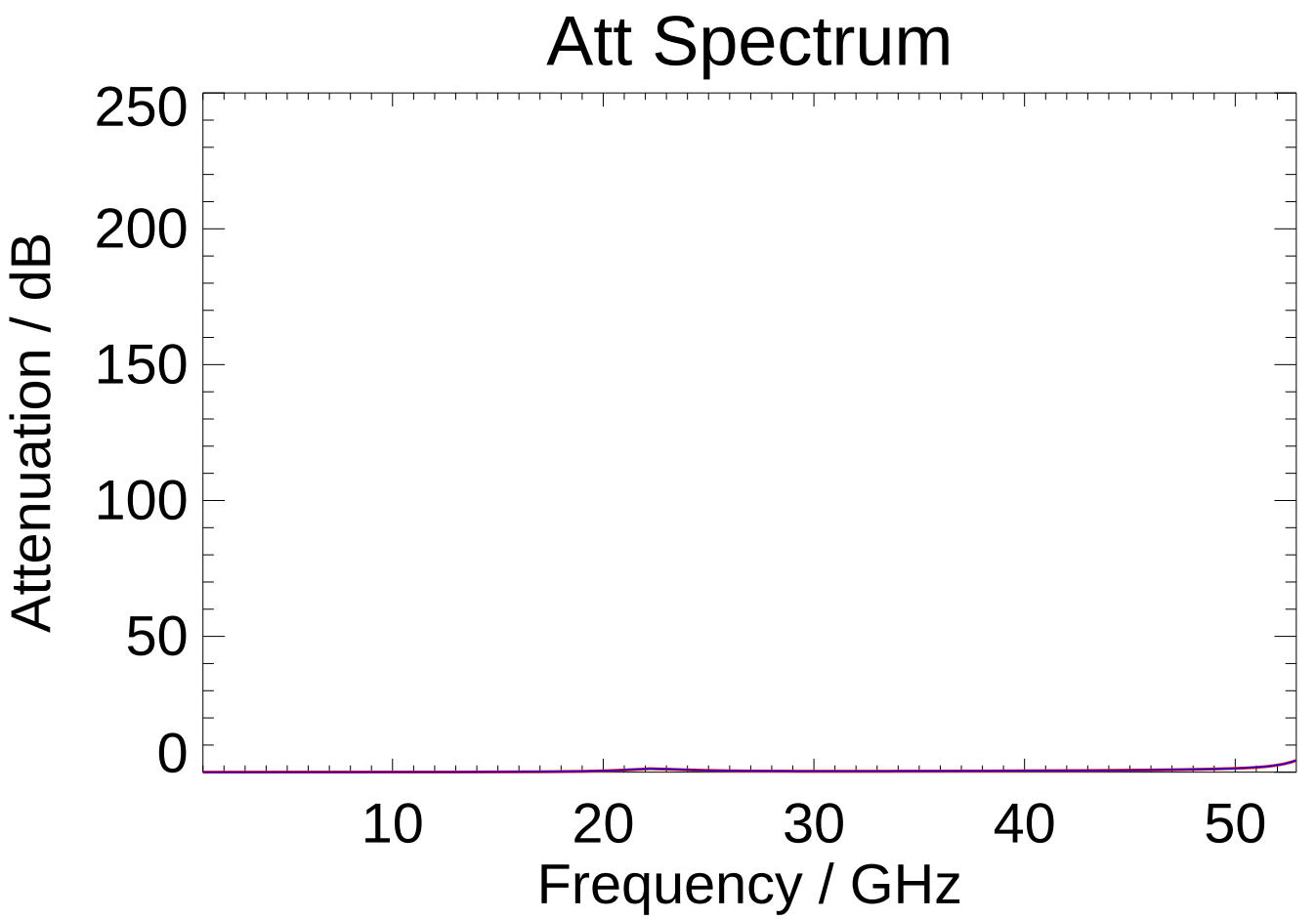
Frequency / GHz


Att Spectrum
Attenuation / dB
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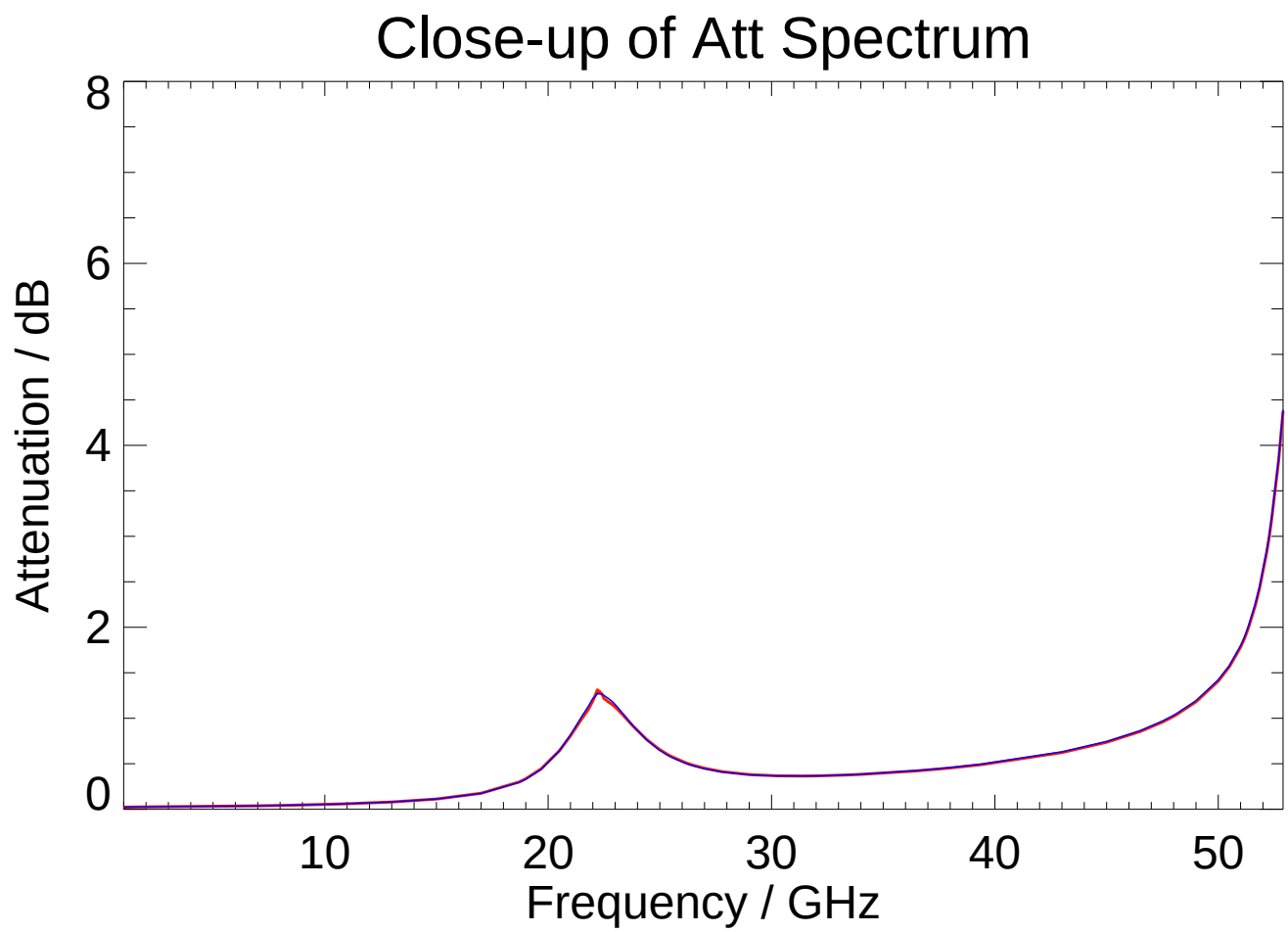
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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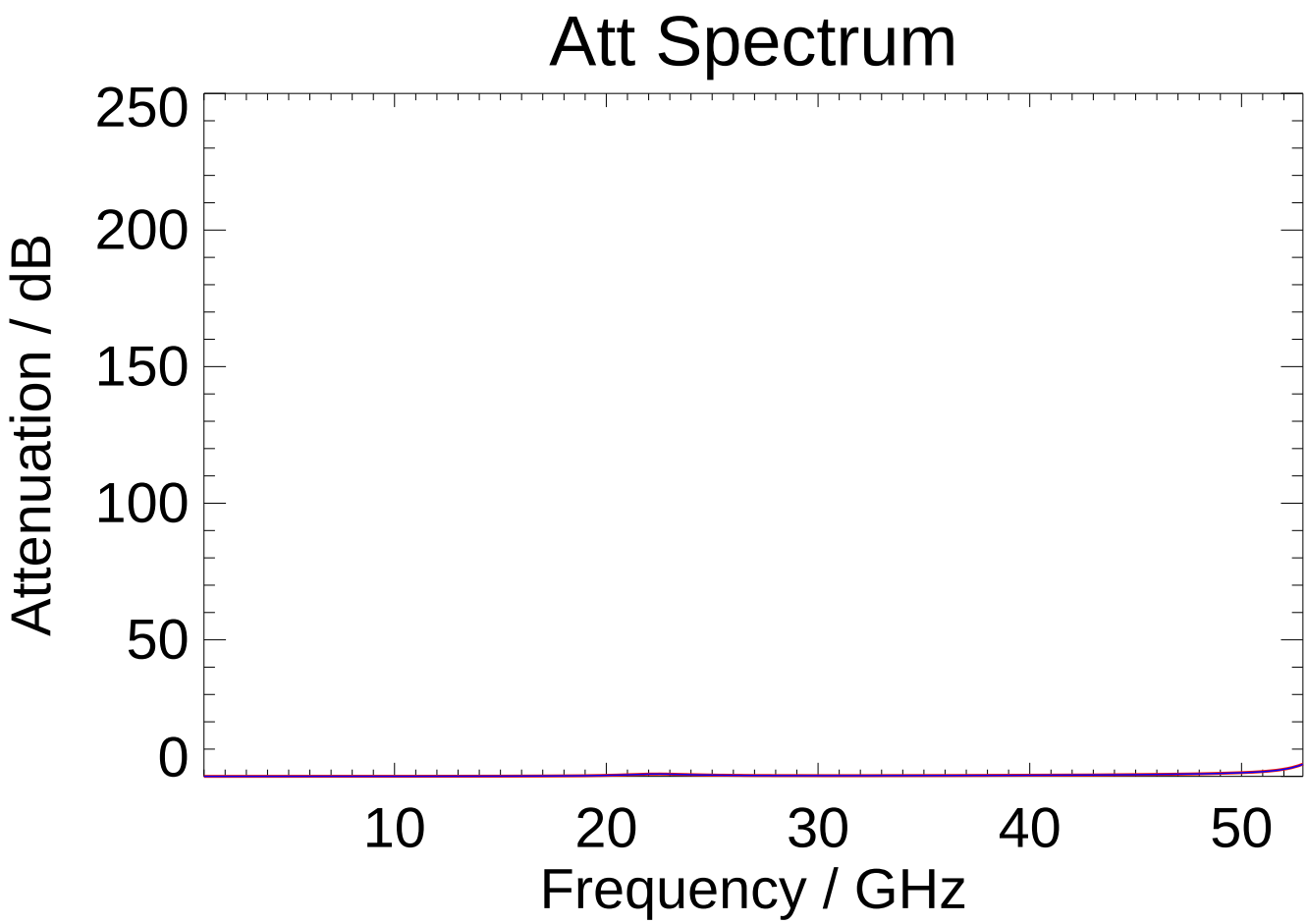
Frequency / GHz


Att Spectrum
Attenuation / dB
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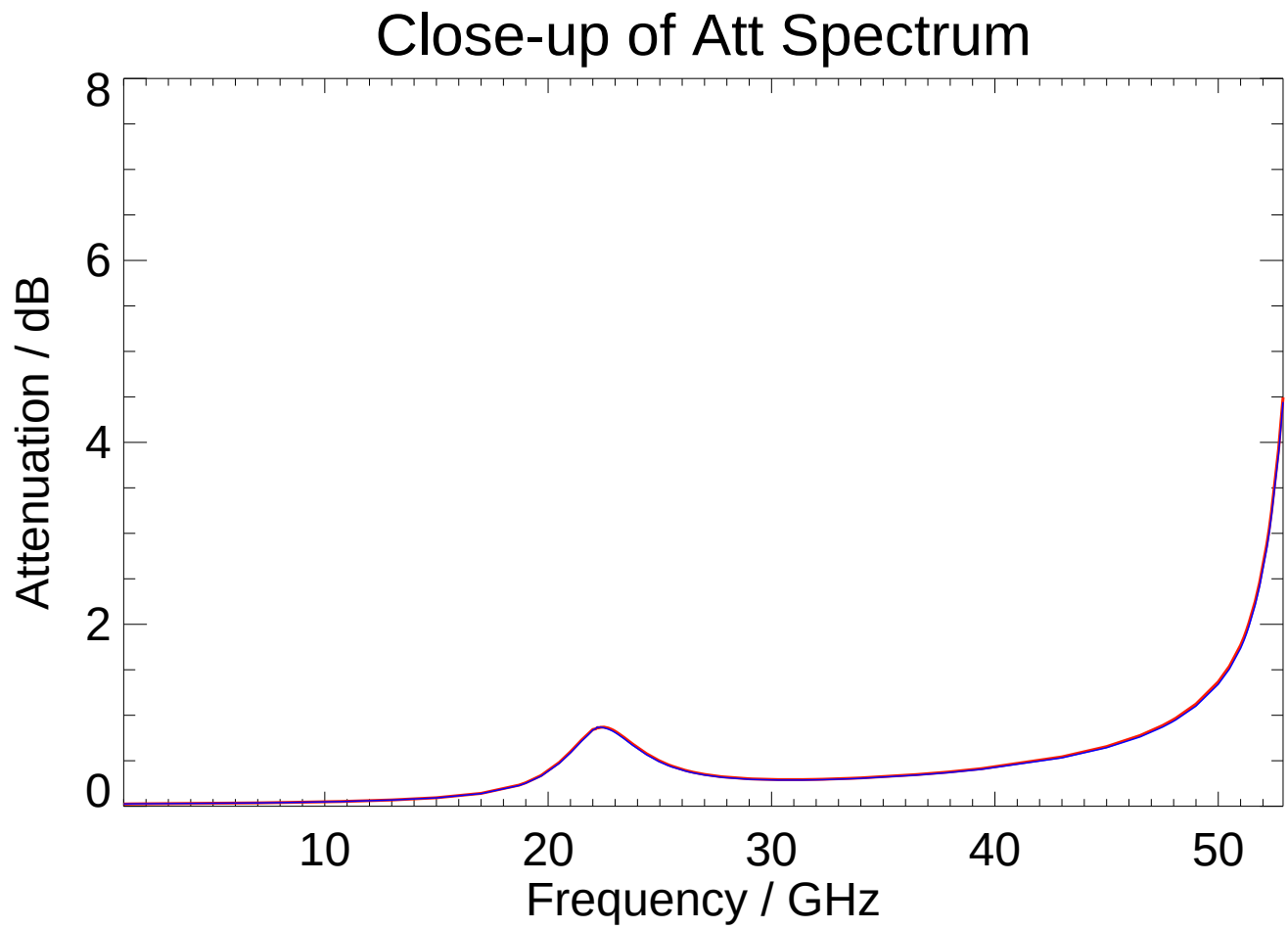
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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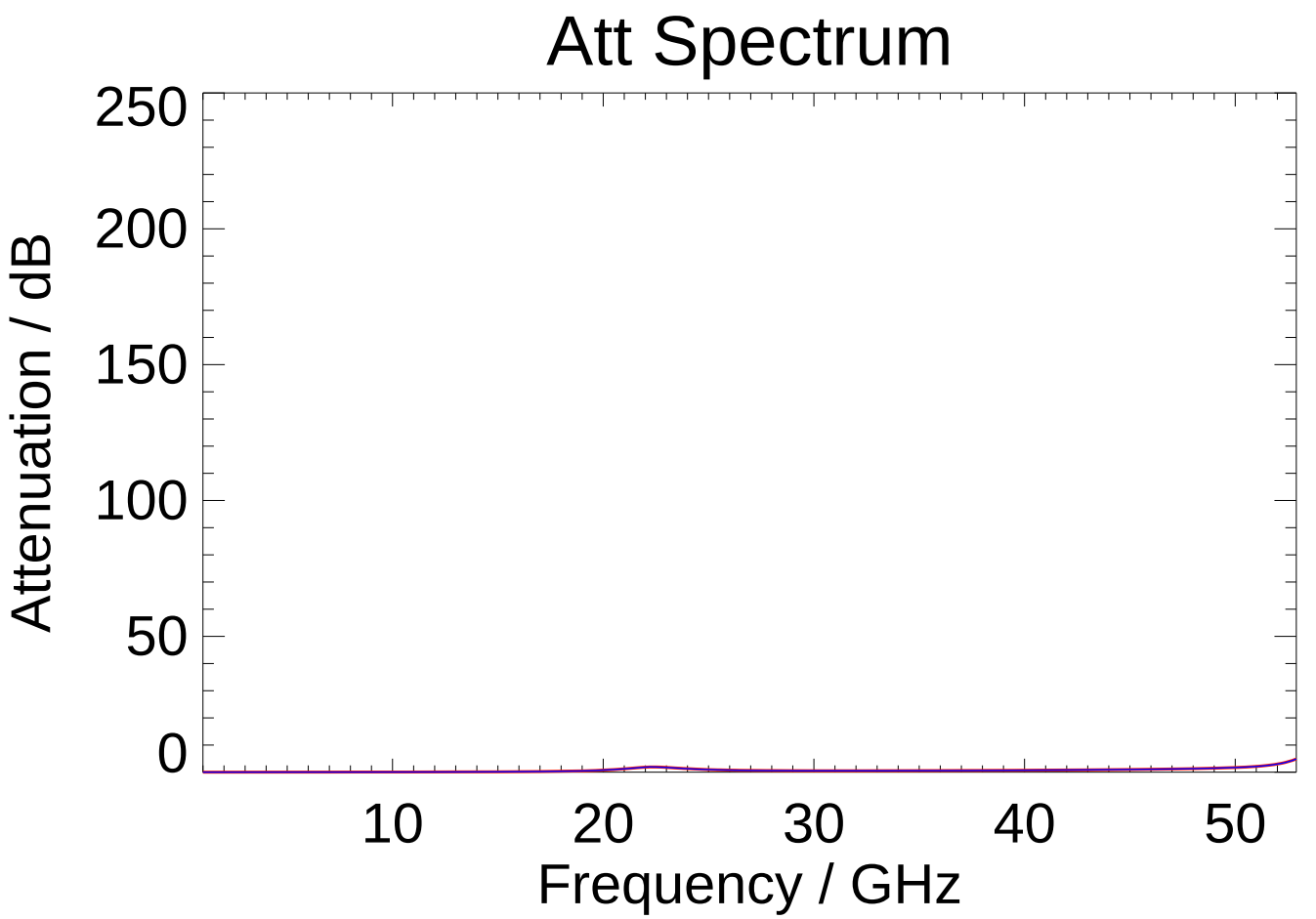
Frequency / GHz


Att Spectrum
Attenuation / dB
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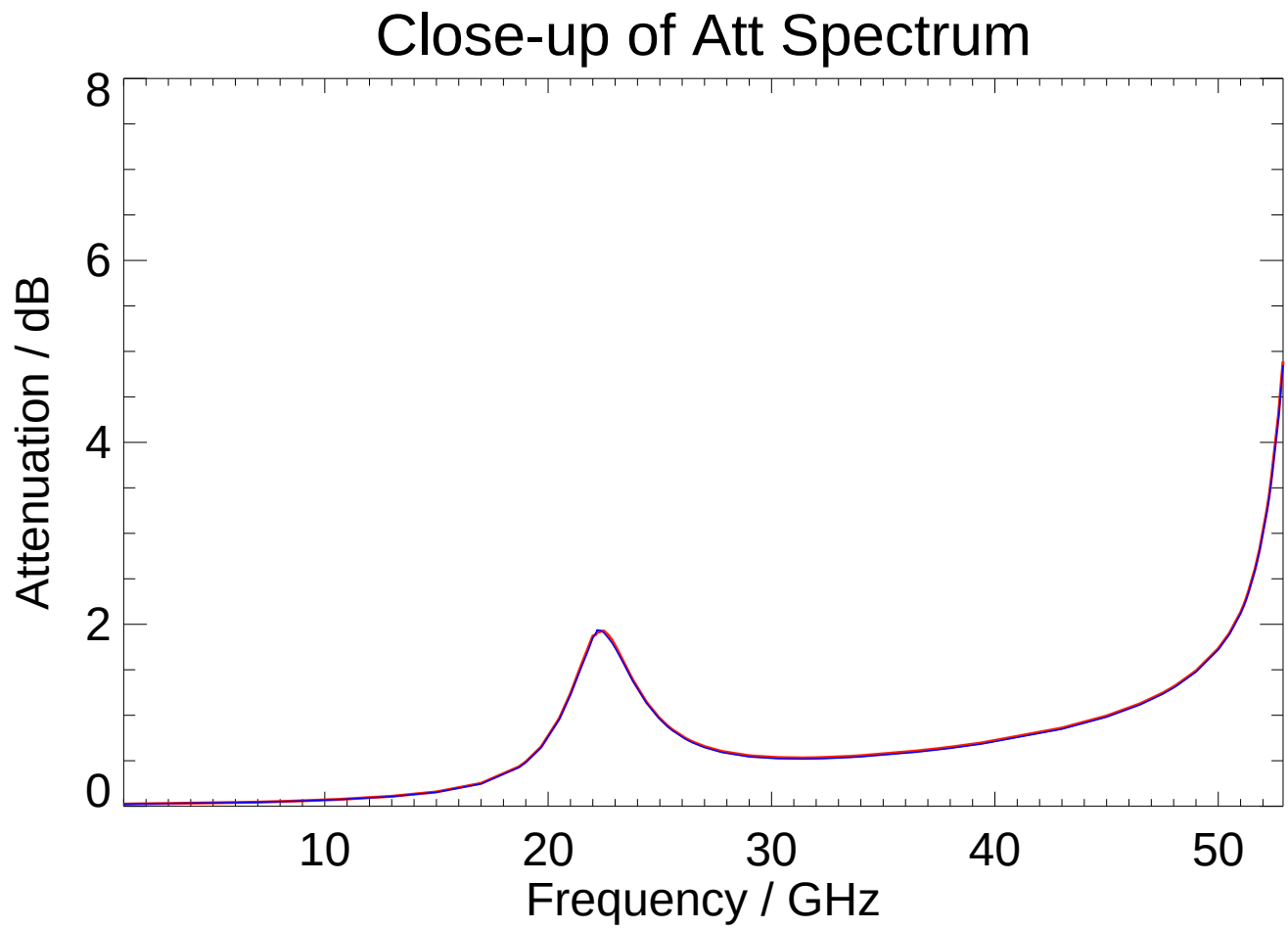
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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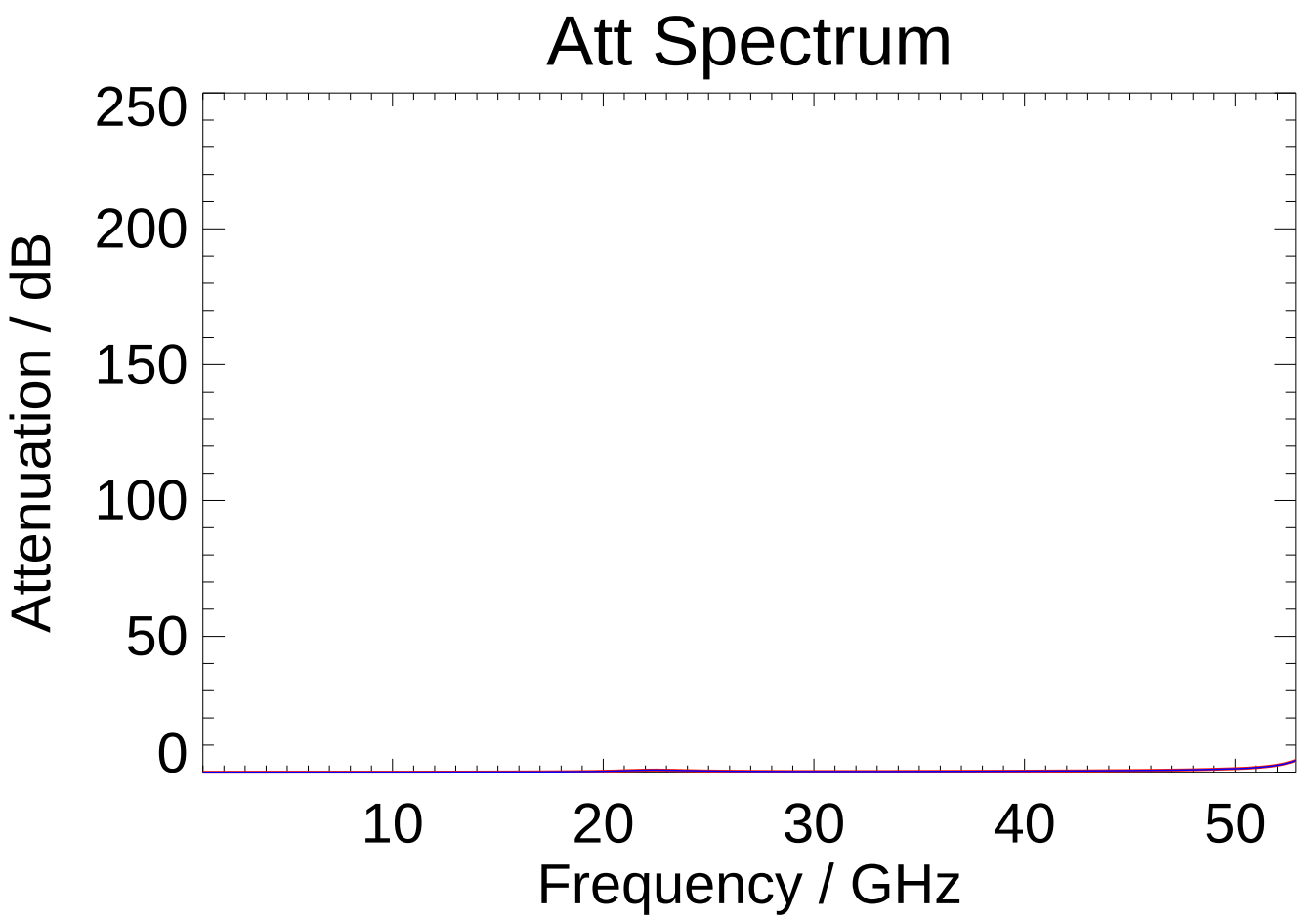
Frequency / GHz


Att Spectrum
Attenuation / dB
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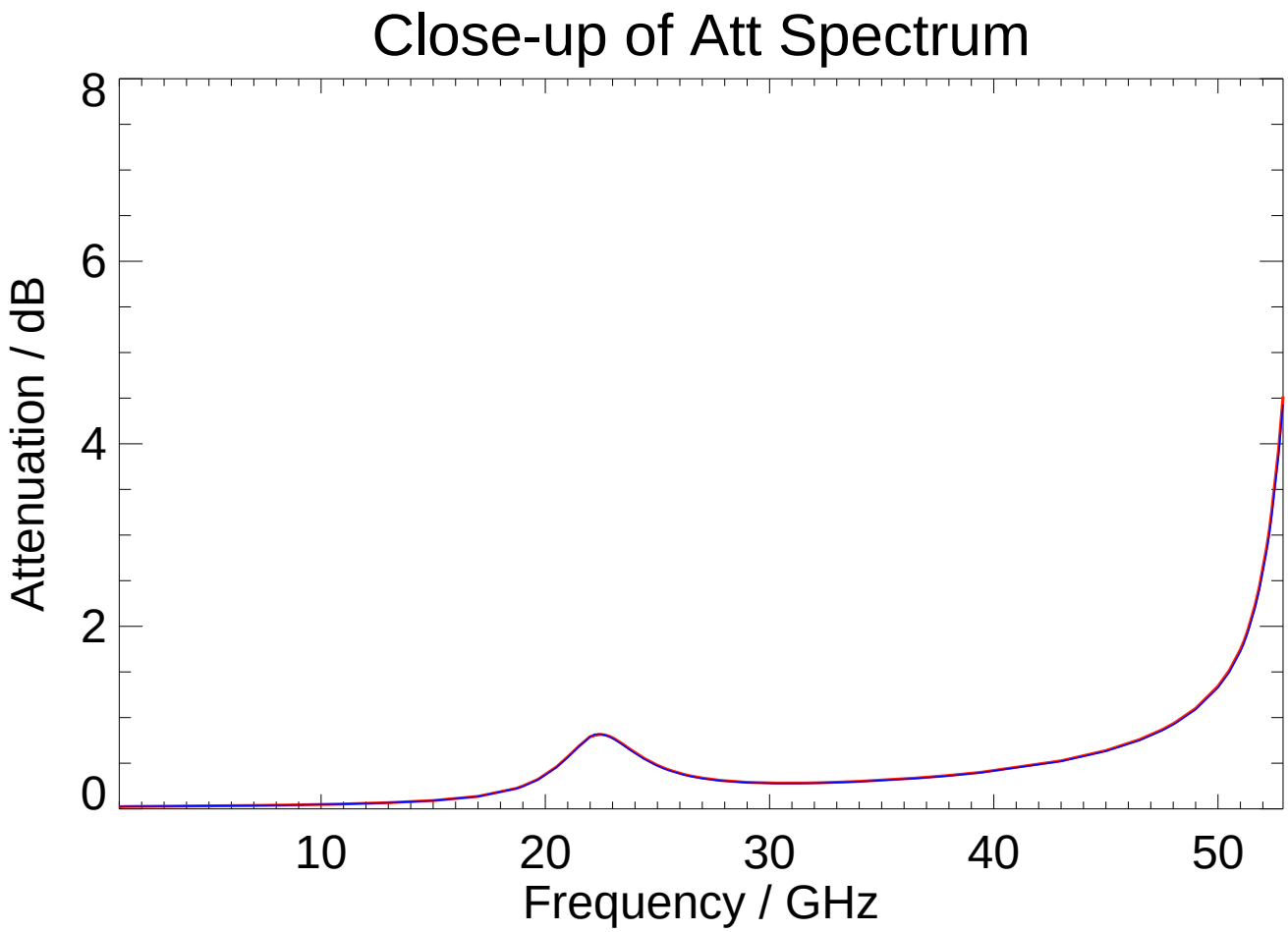
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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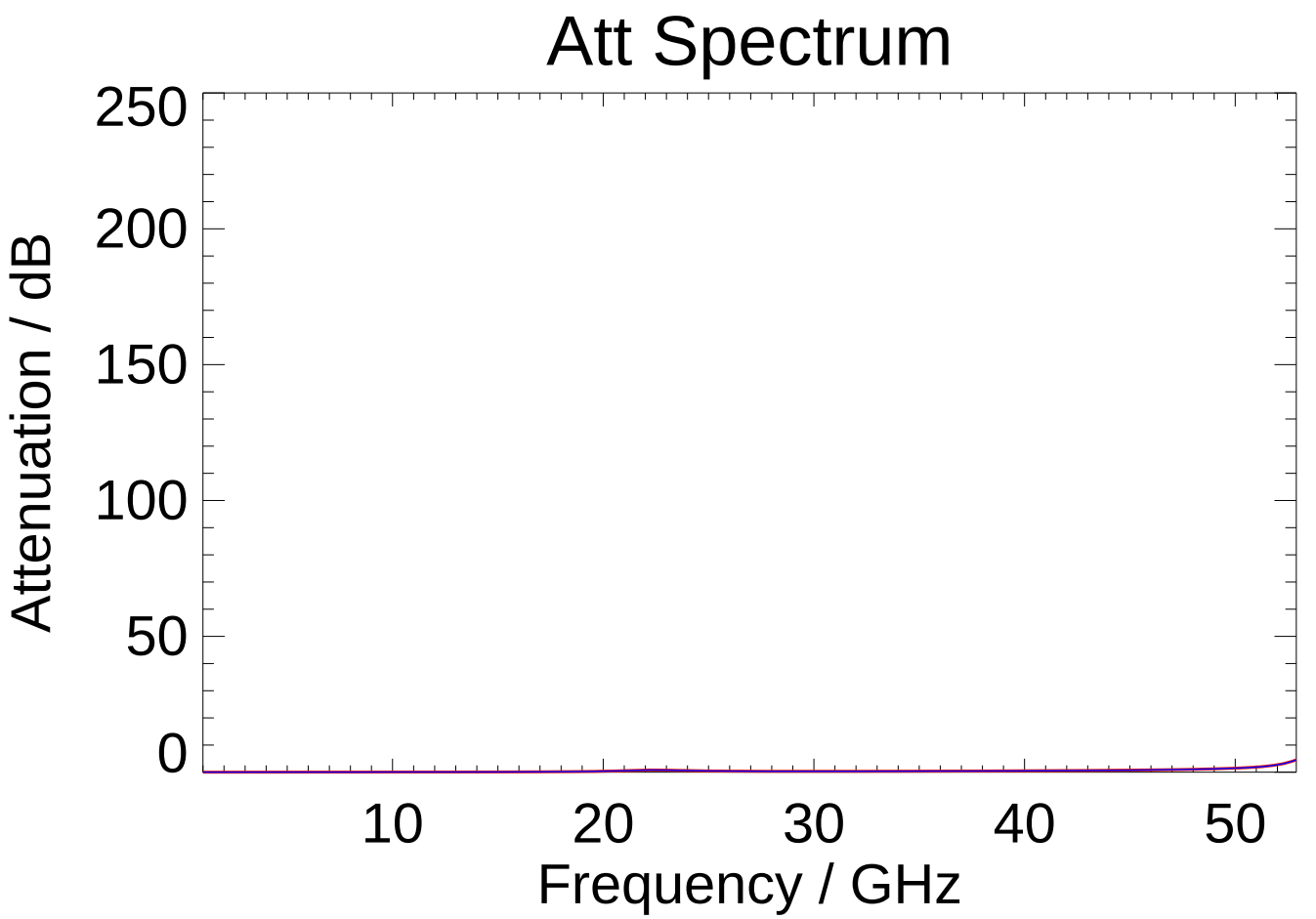
Frequency / GHz


Att Spectrum
Attenuation / dB
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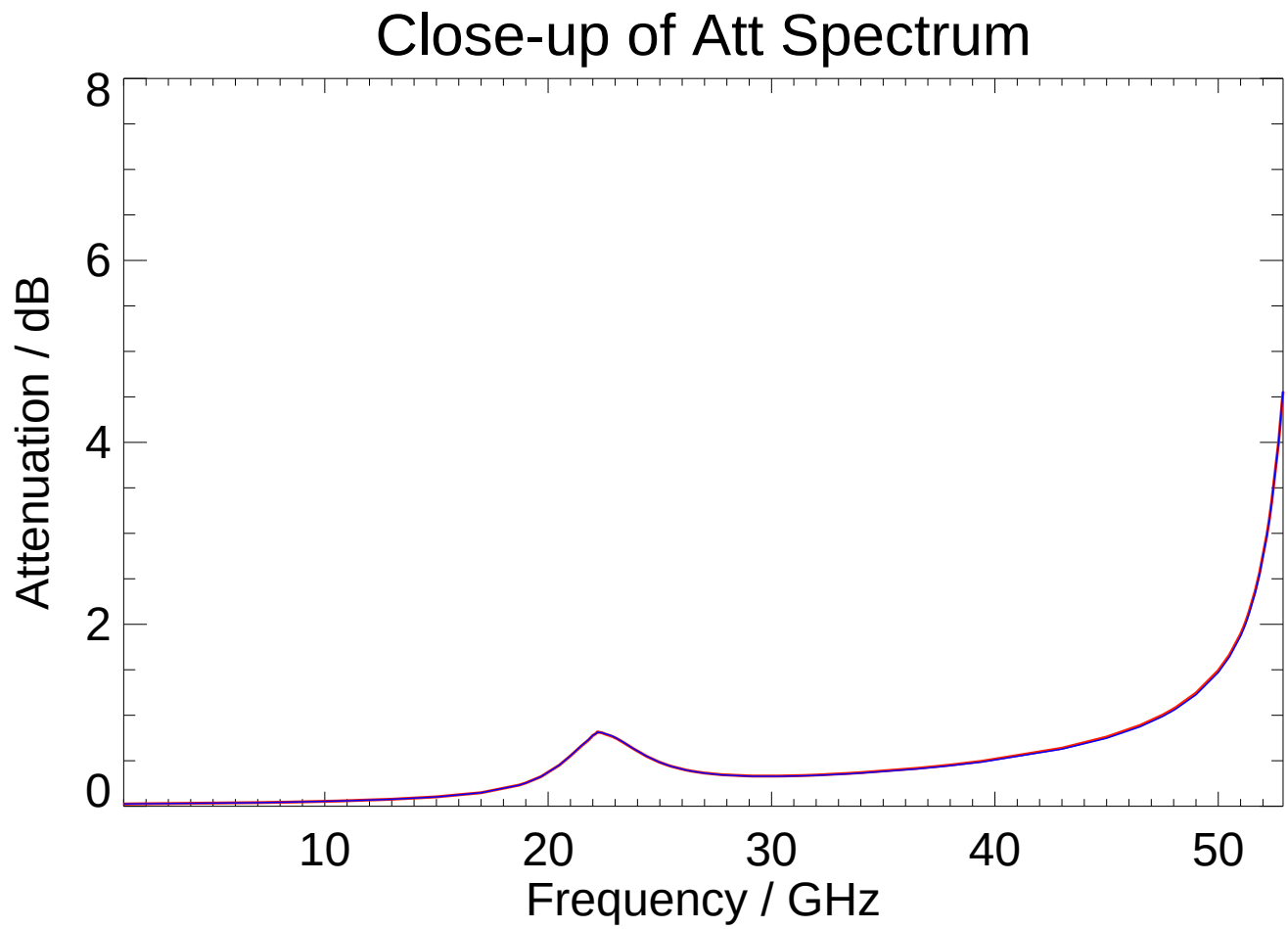
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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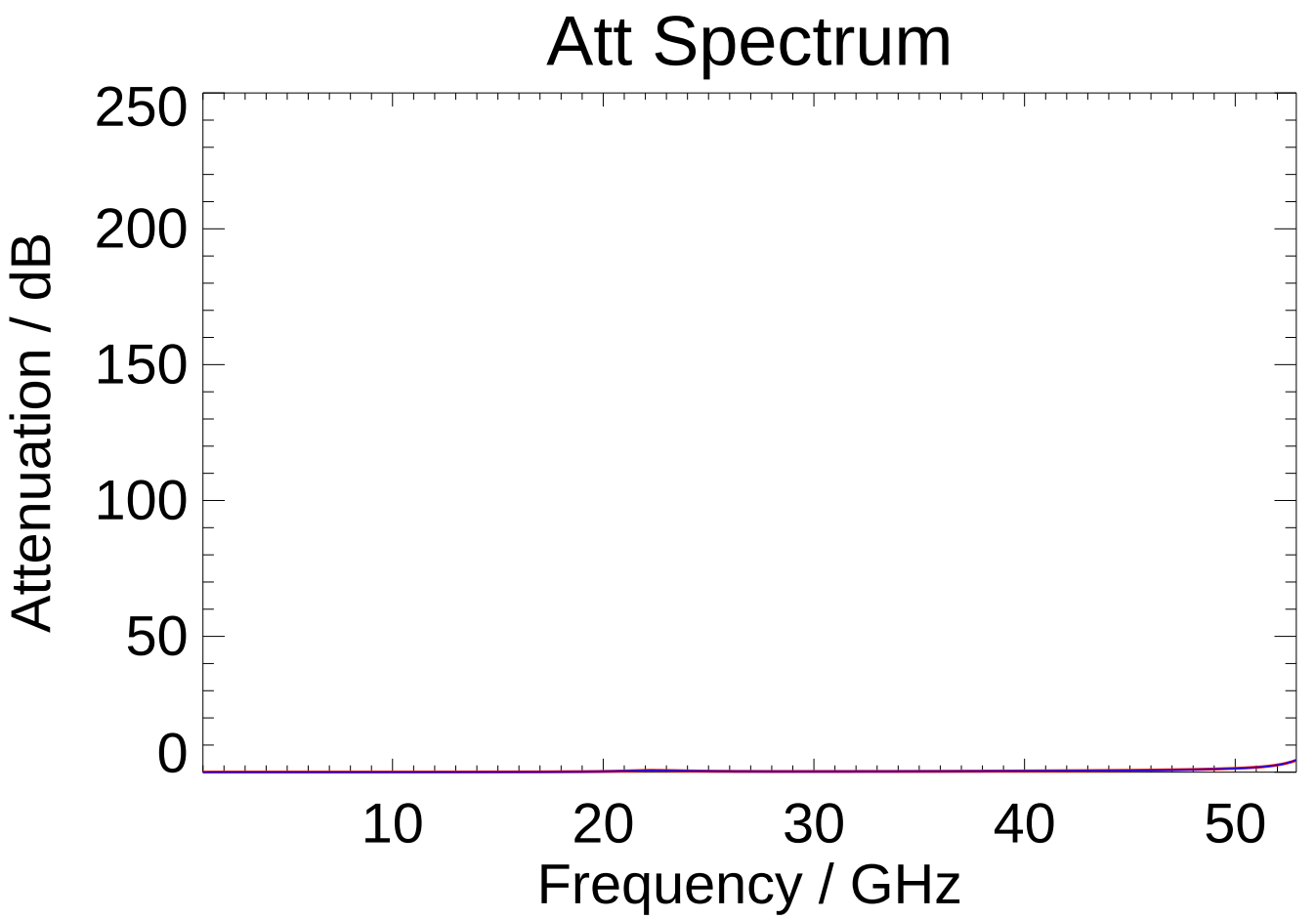
Frequency / GHz


Att Spectrum
Attenuation / dB
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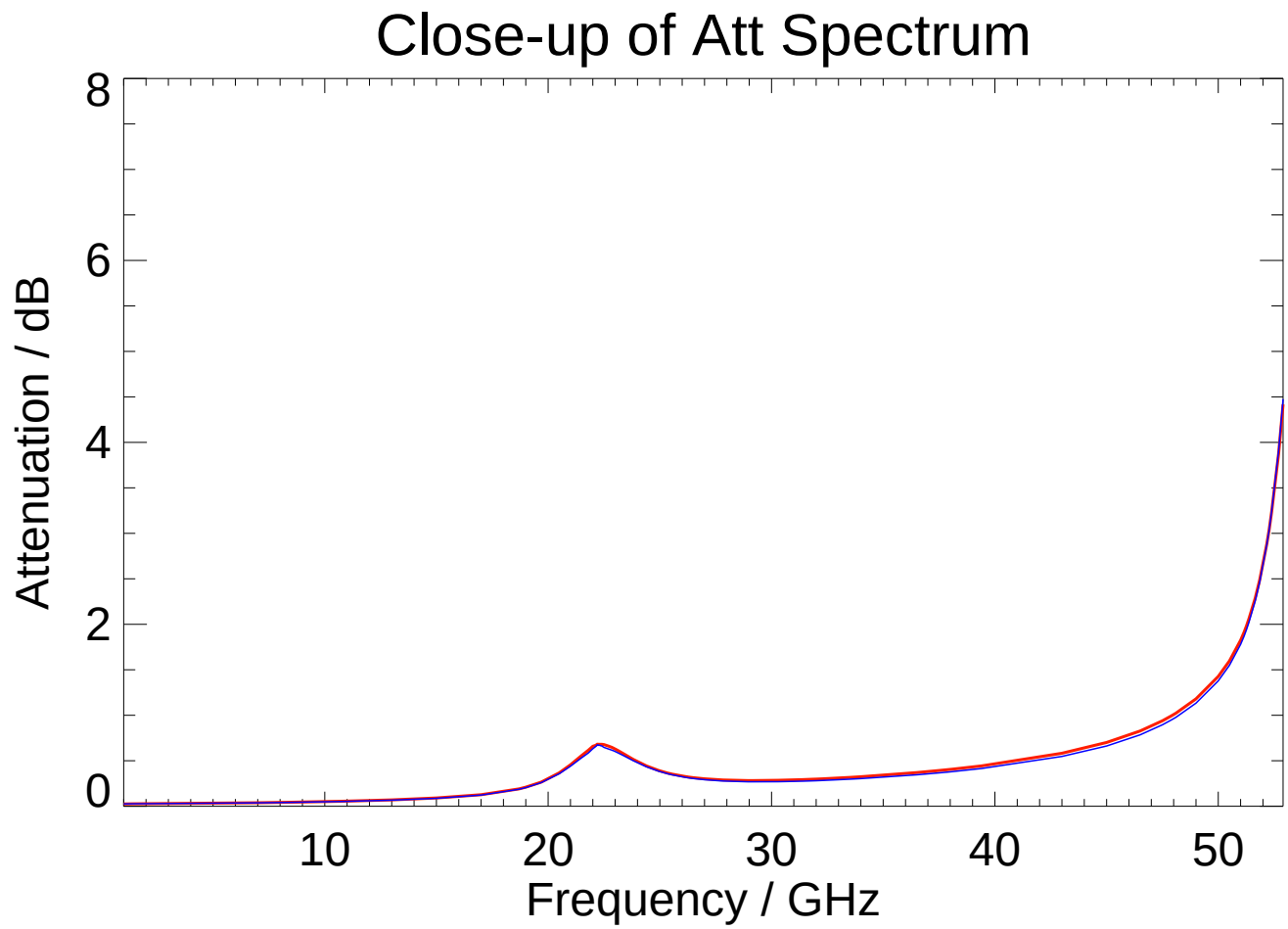
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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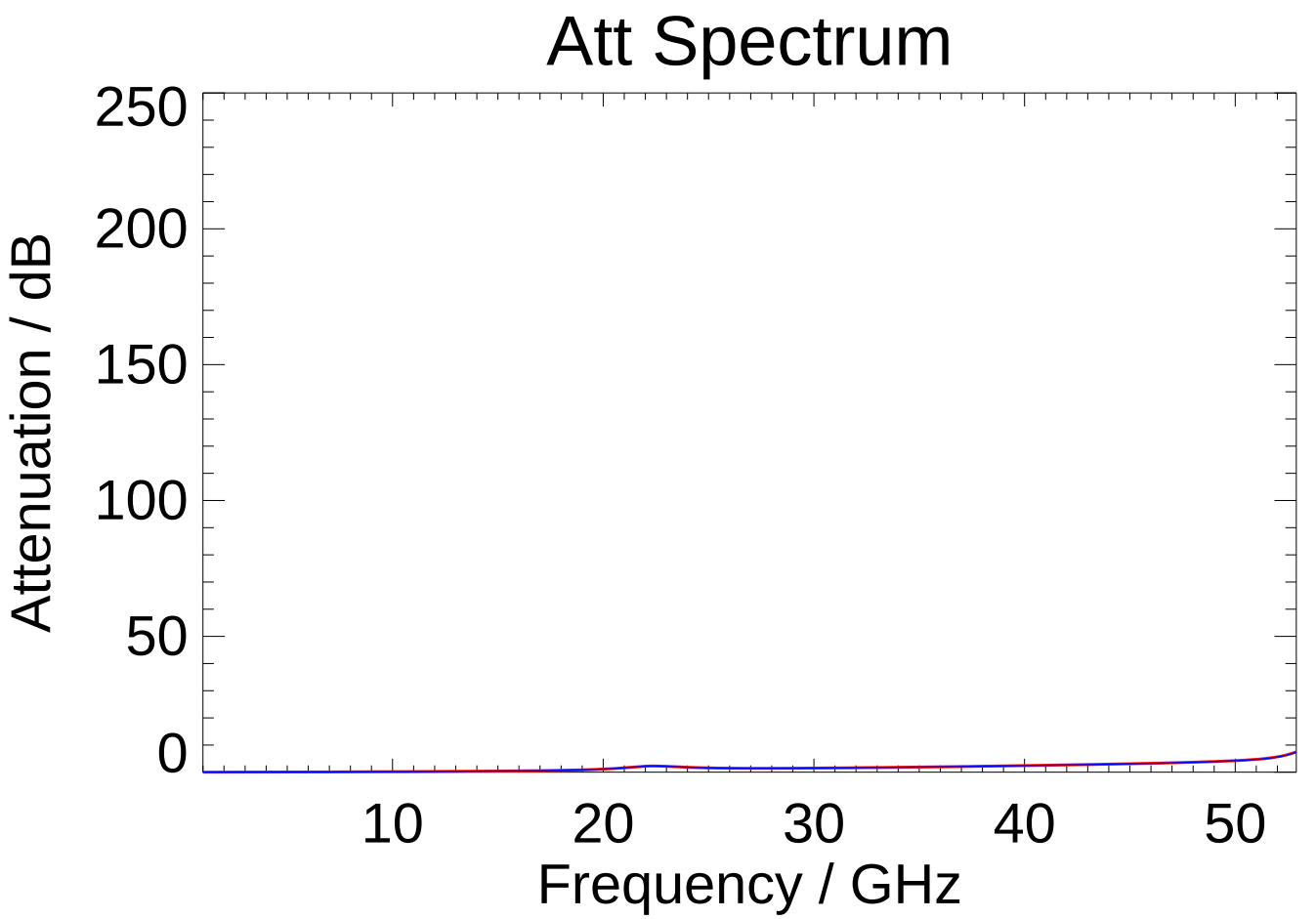
Frequency / GHz


Att Spectrum
Attenuation / dB
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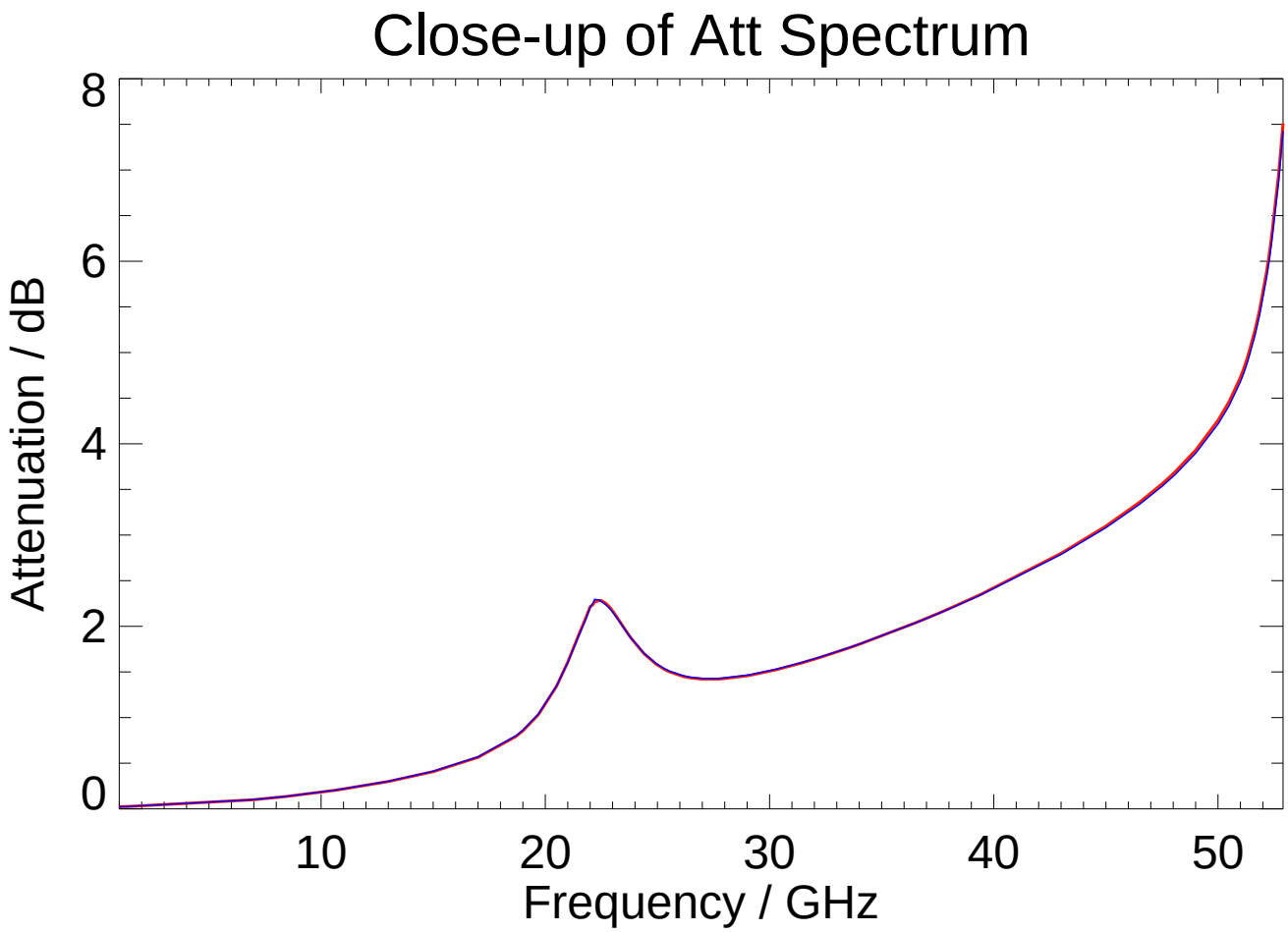
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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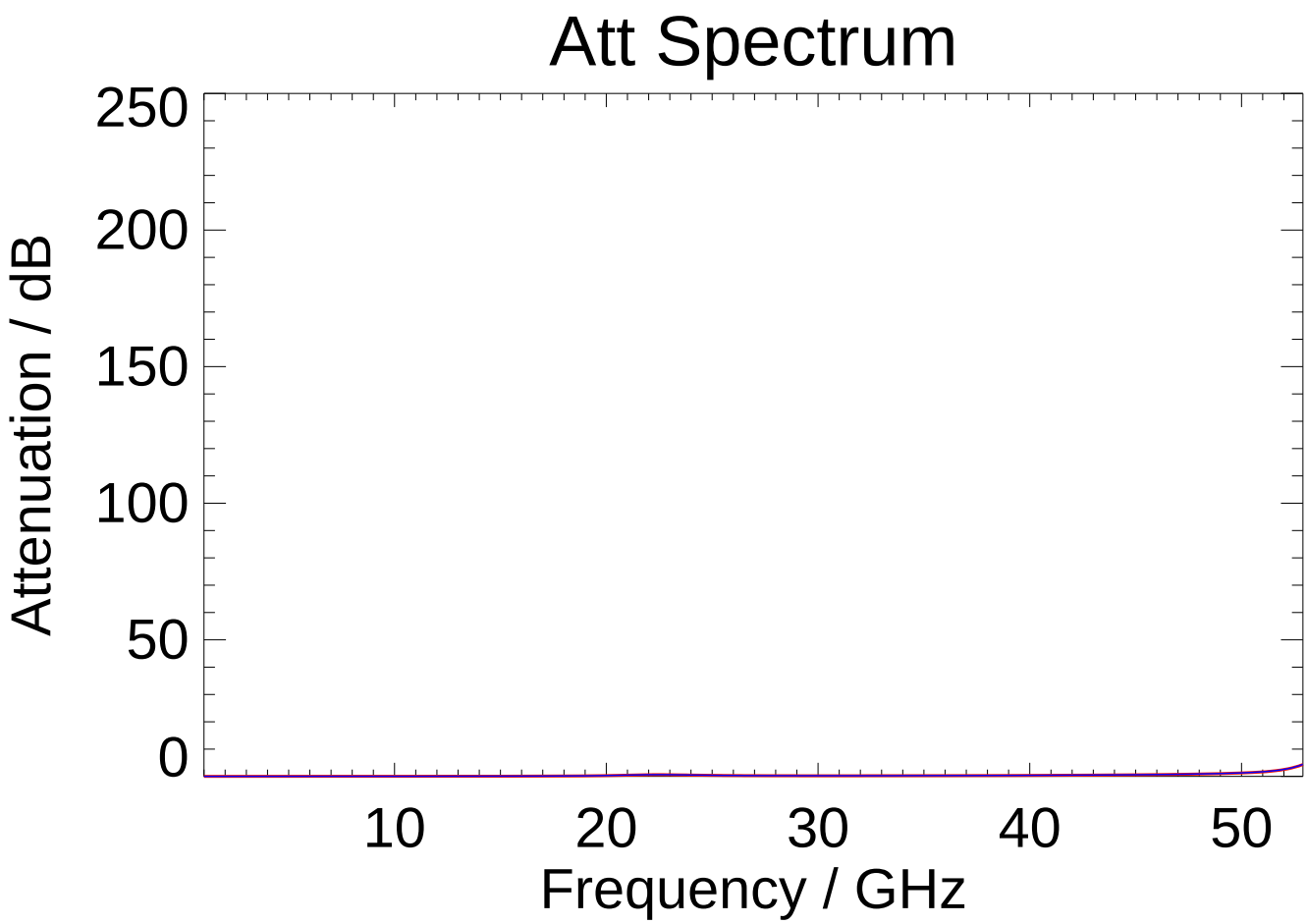
Frequency / GHz


Att Spectrum
Attenuation / dB
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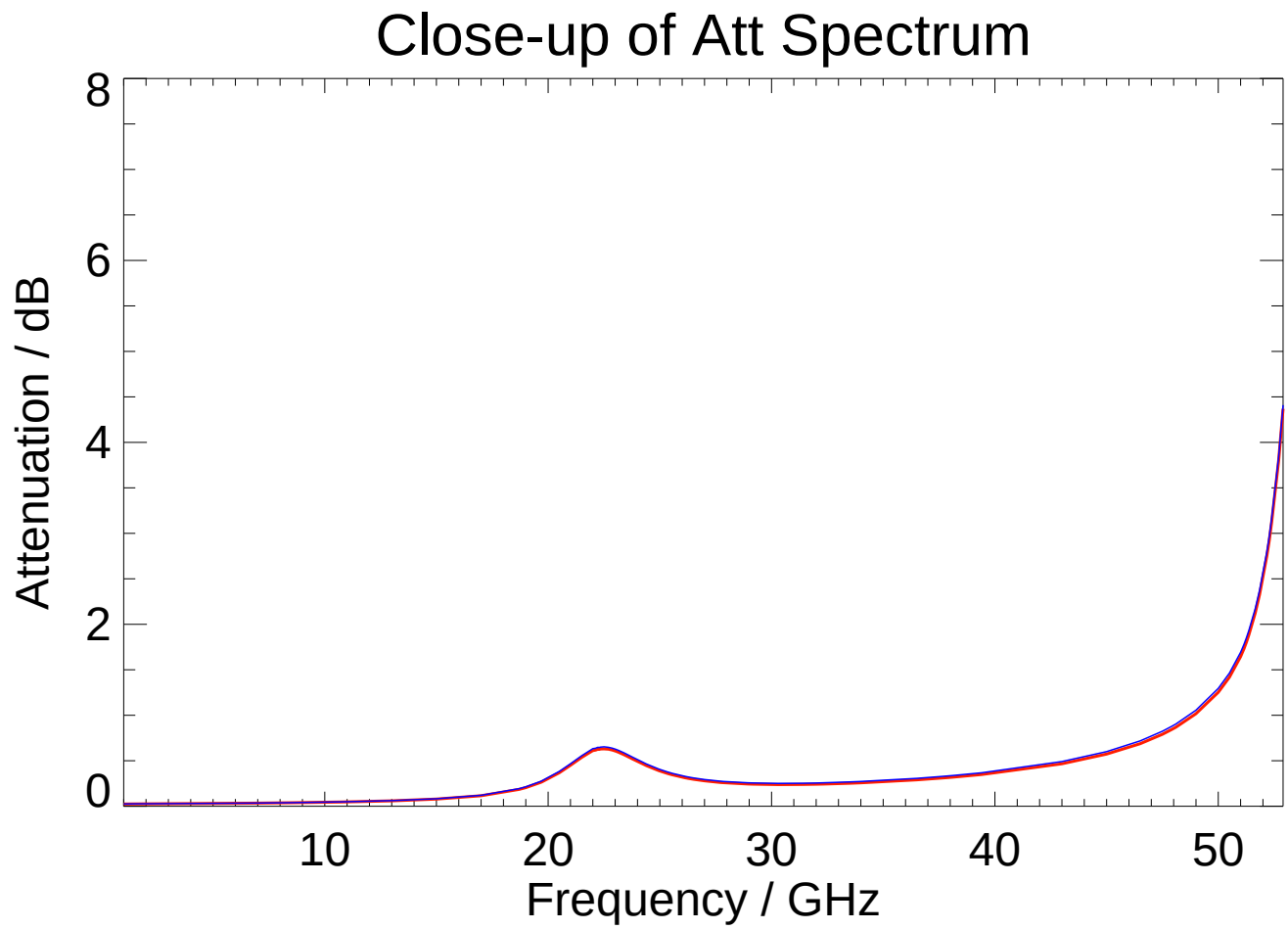
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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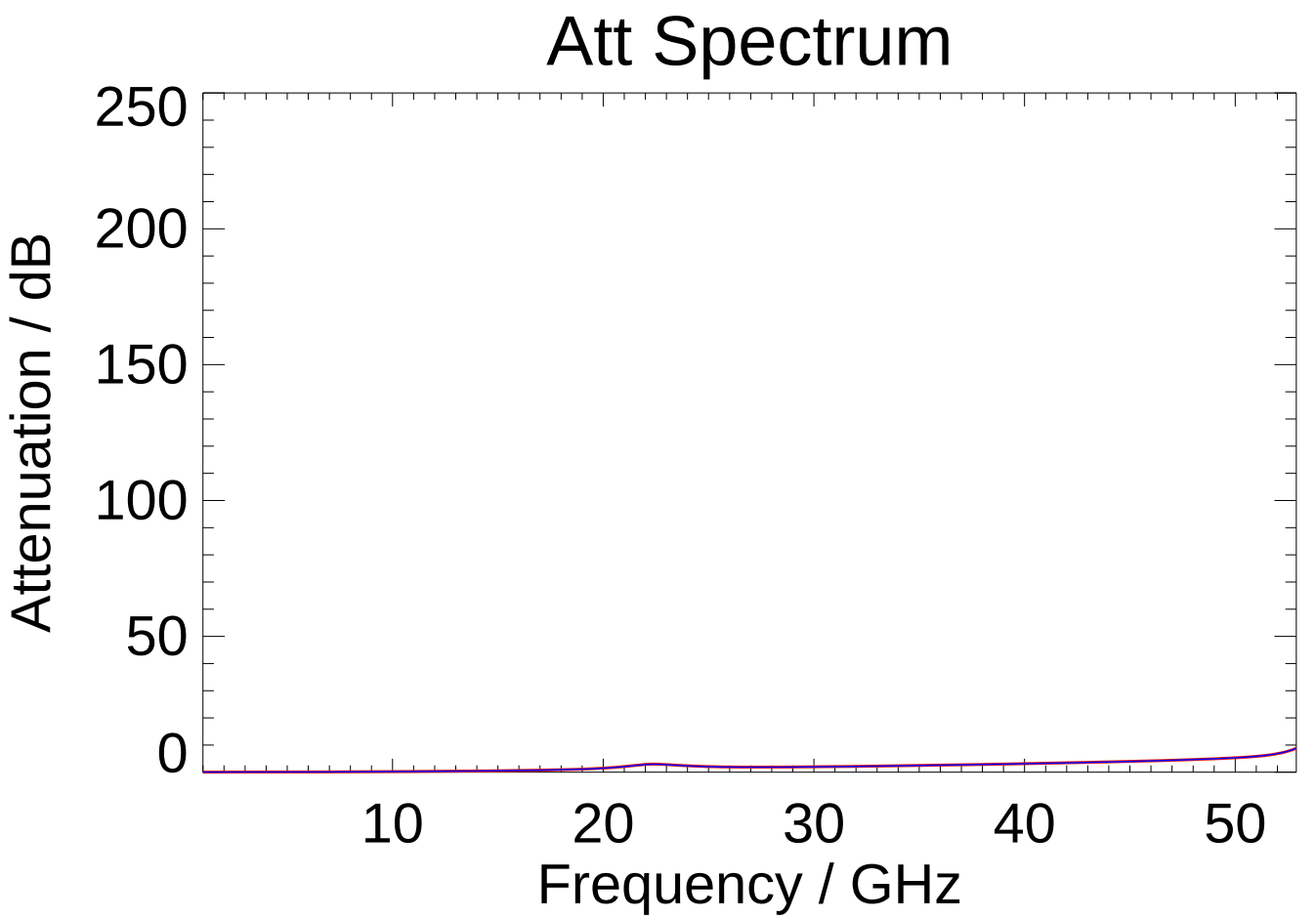
Frequency / GHz


Att Spectrum
Attenuation / dB
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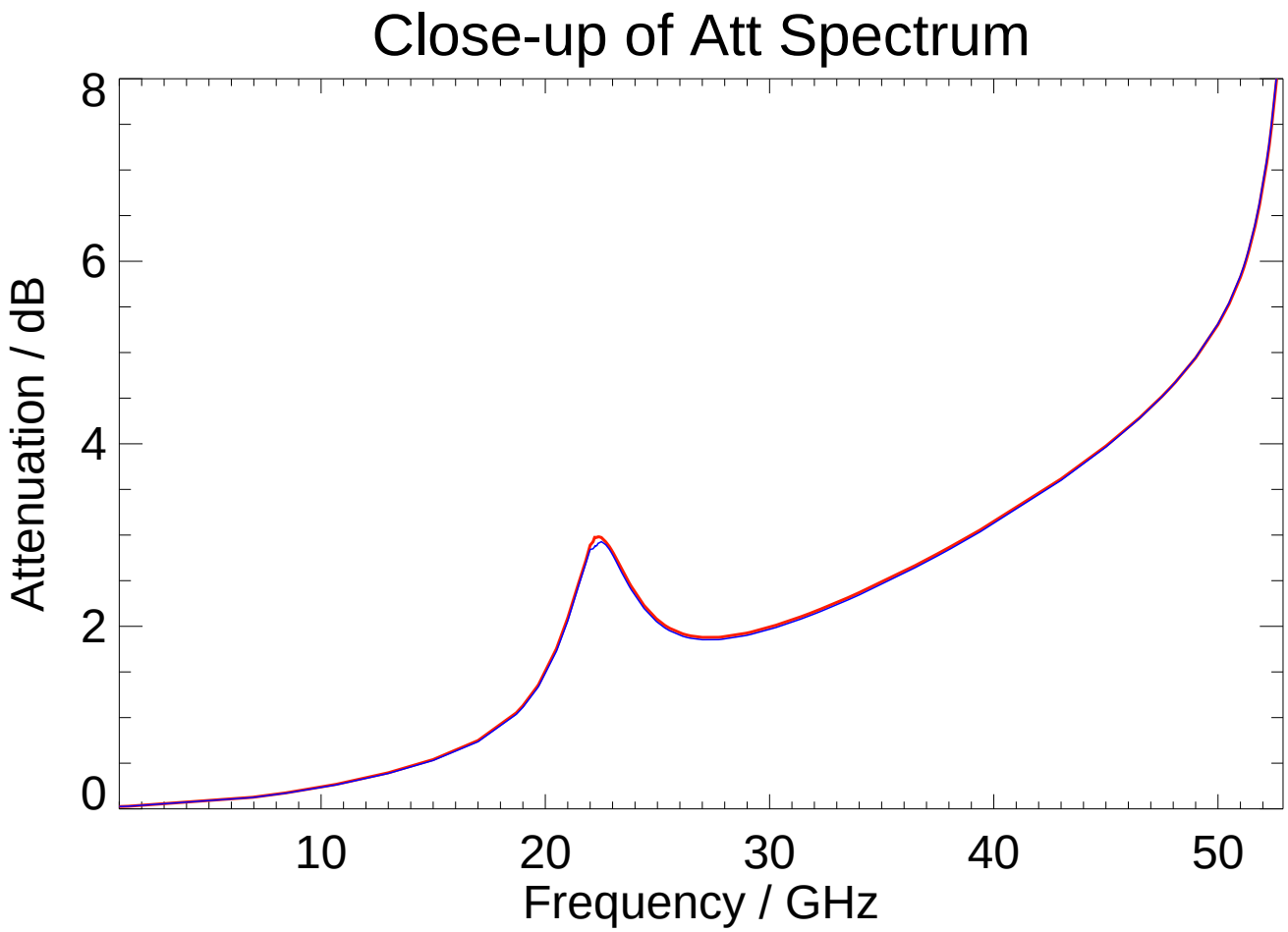
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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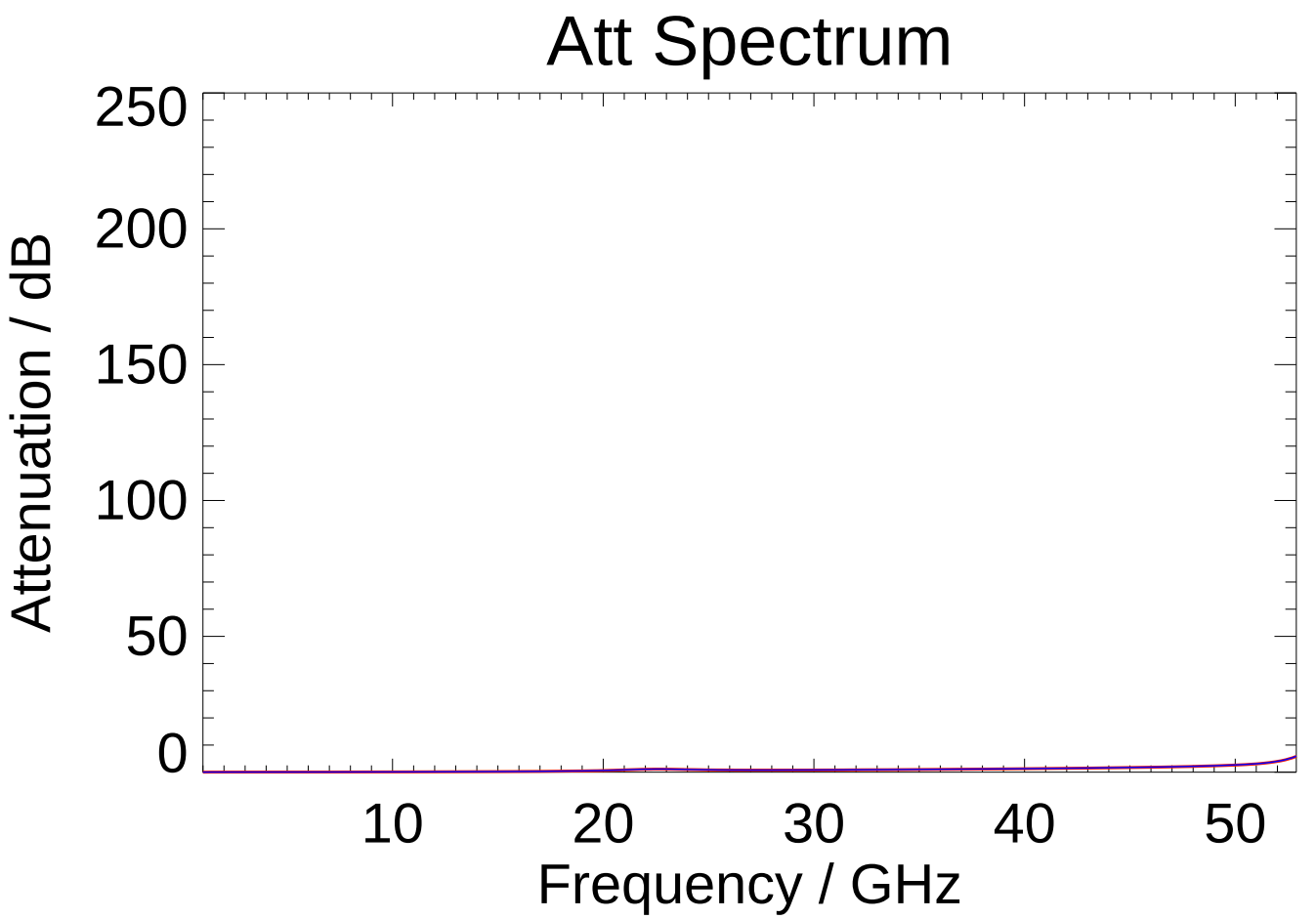
Frequency / GHz


Att Spectrum
Attenuation / dB
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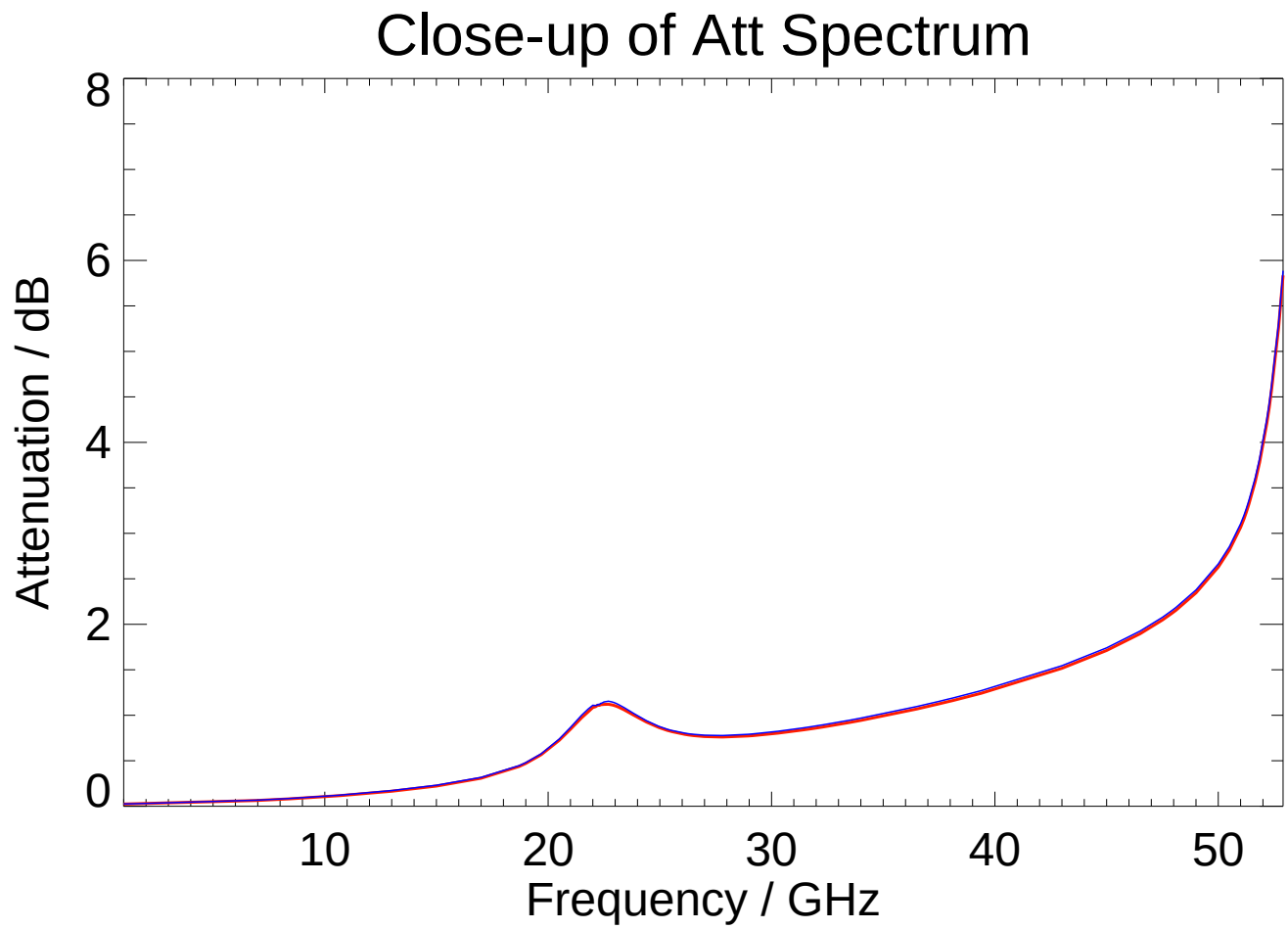
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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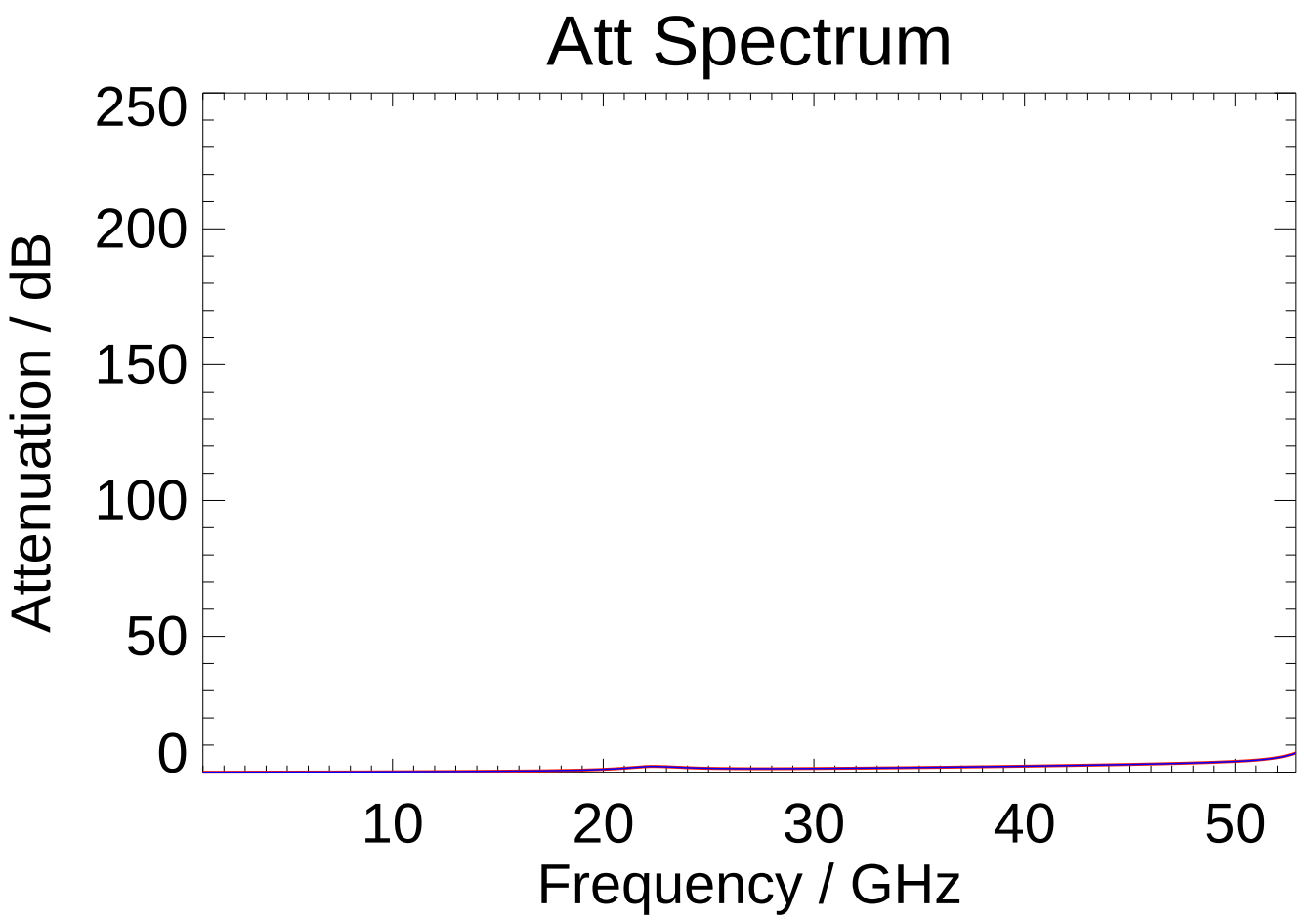
Frequency / GHz


Att Spectrum
Attenuation / dB
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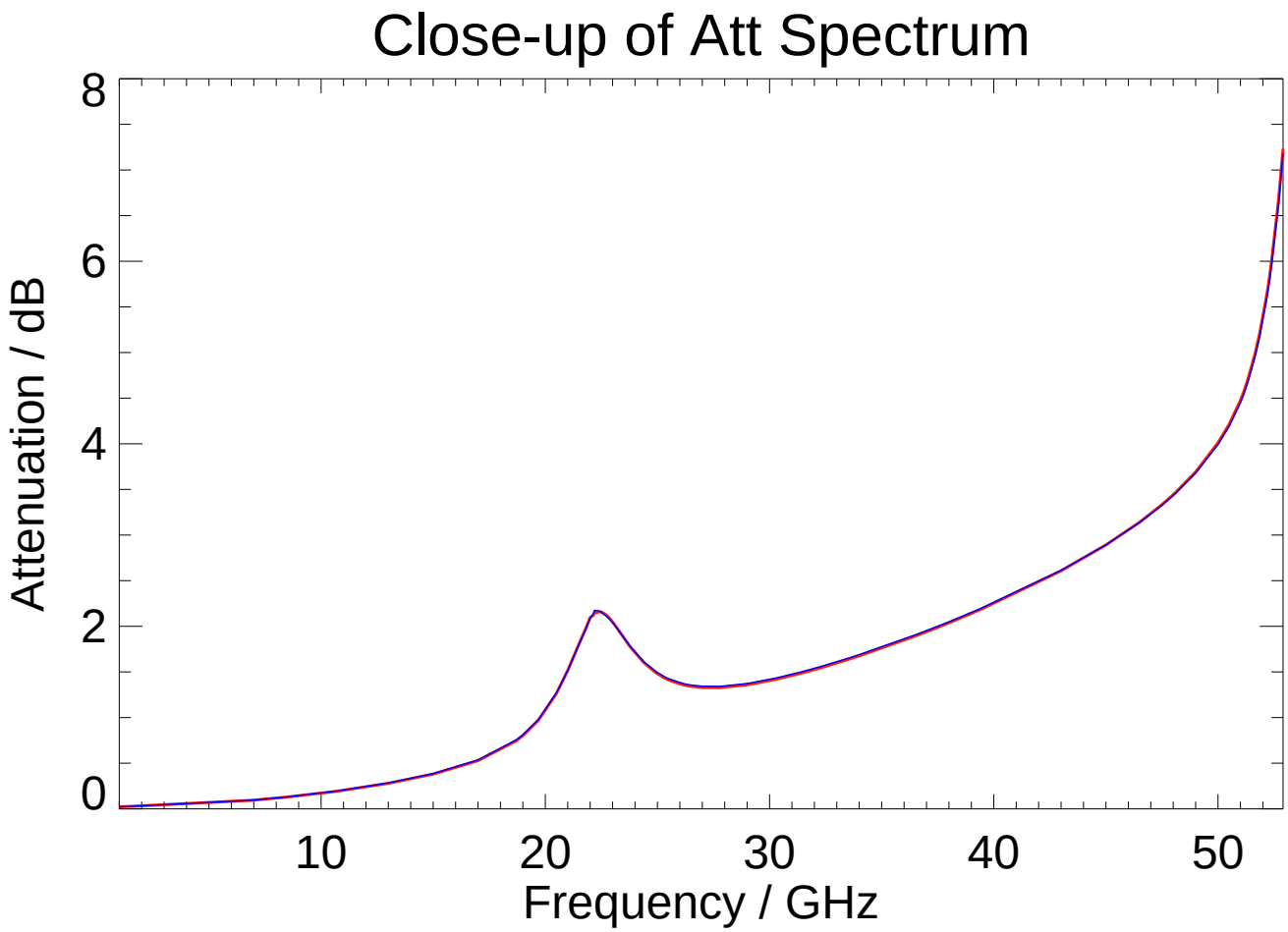
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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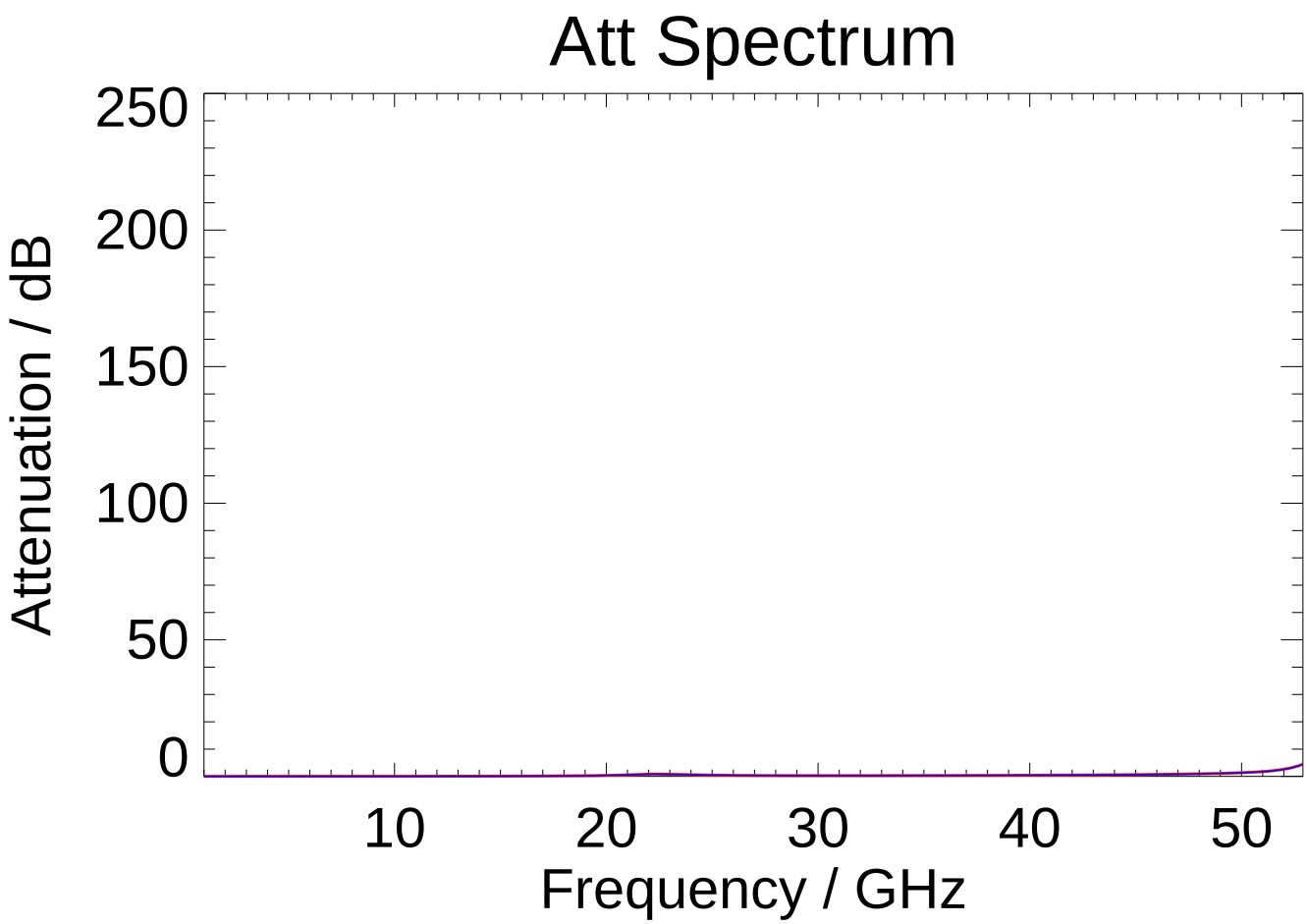
Frequency / GHz


Att Spectrum
Attenuation / dB
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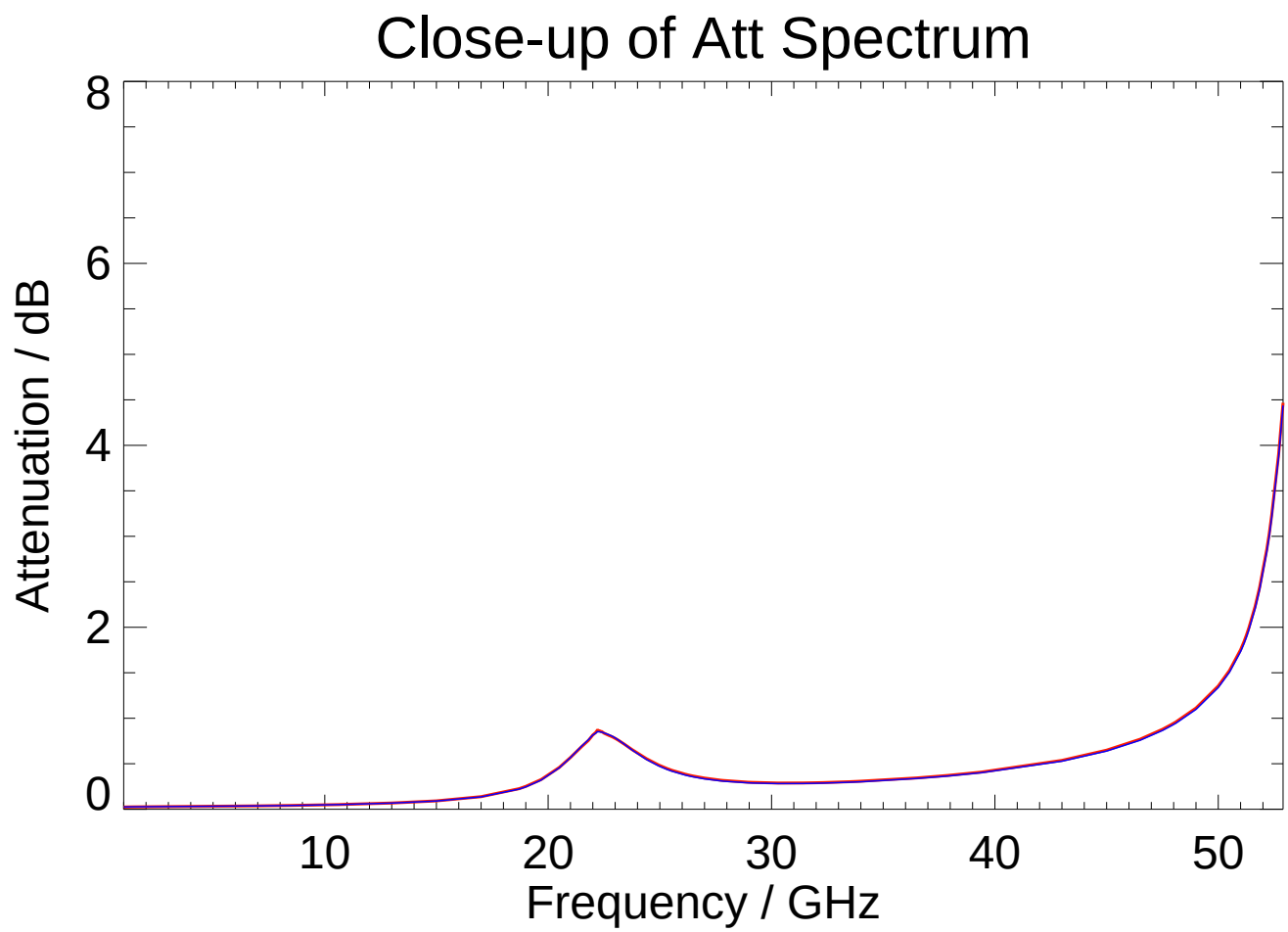
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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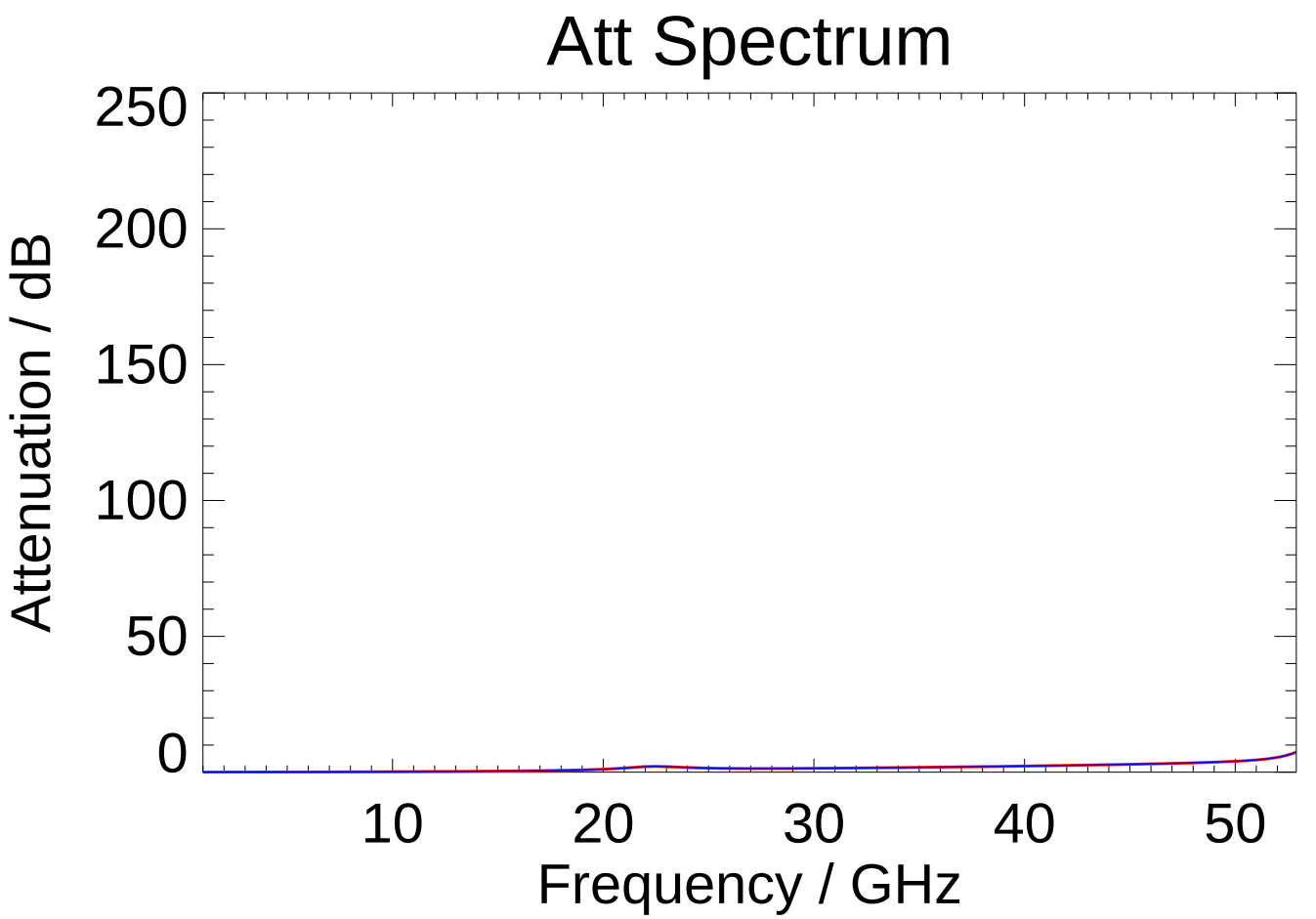
Frequency / GHz


Att Spectrum
Attenuation / dB
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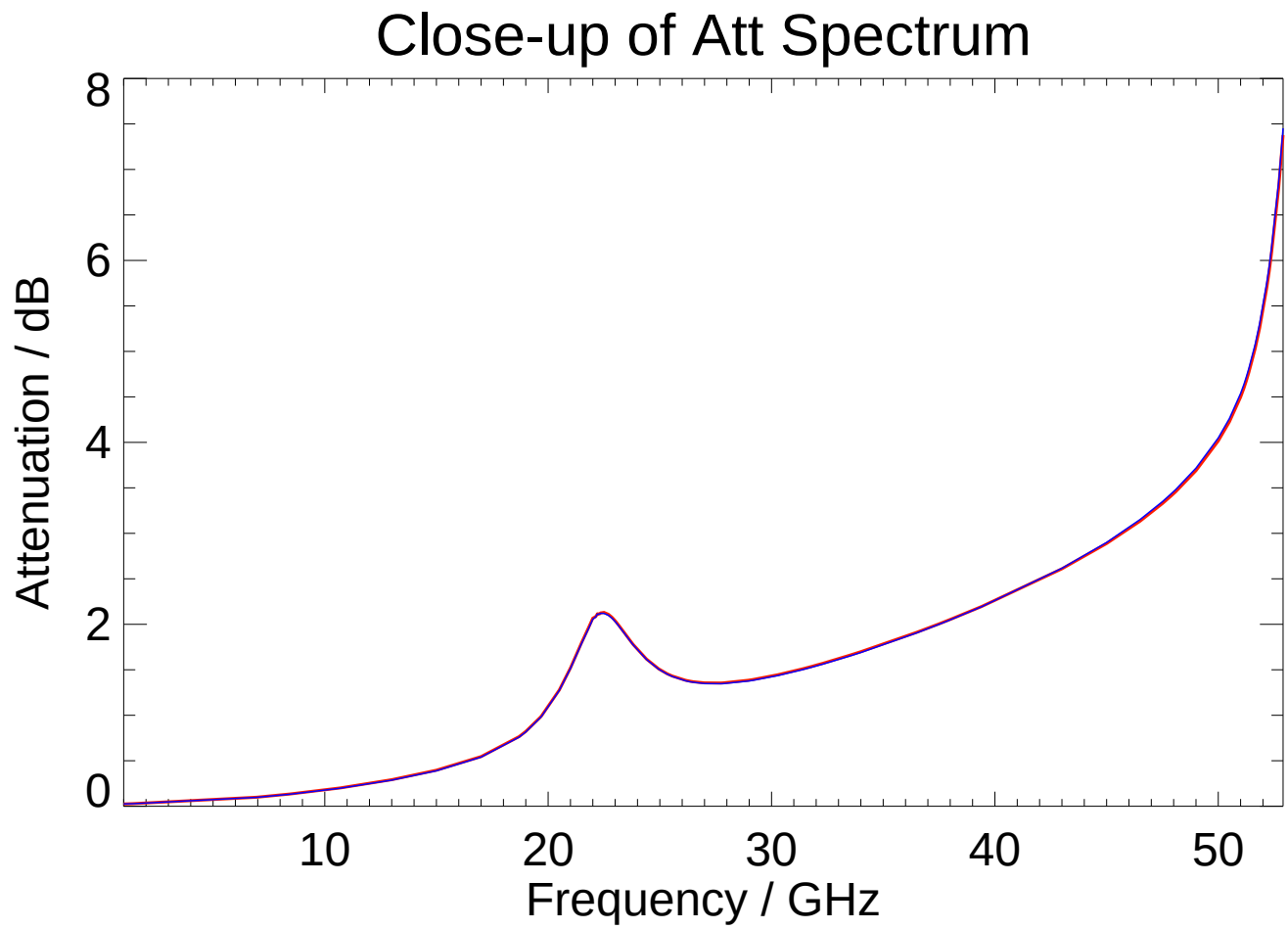
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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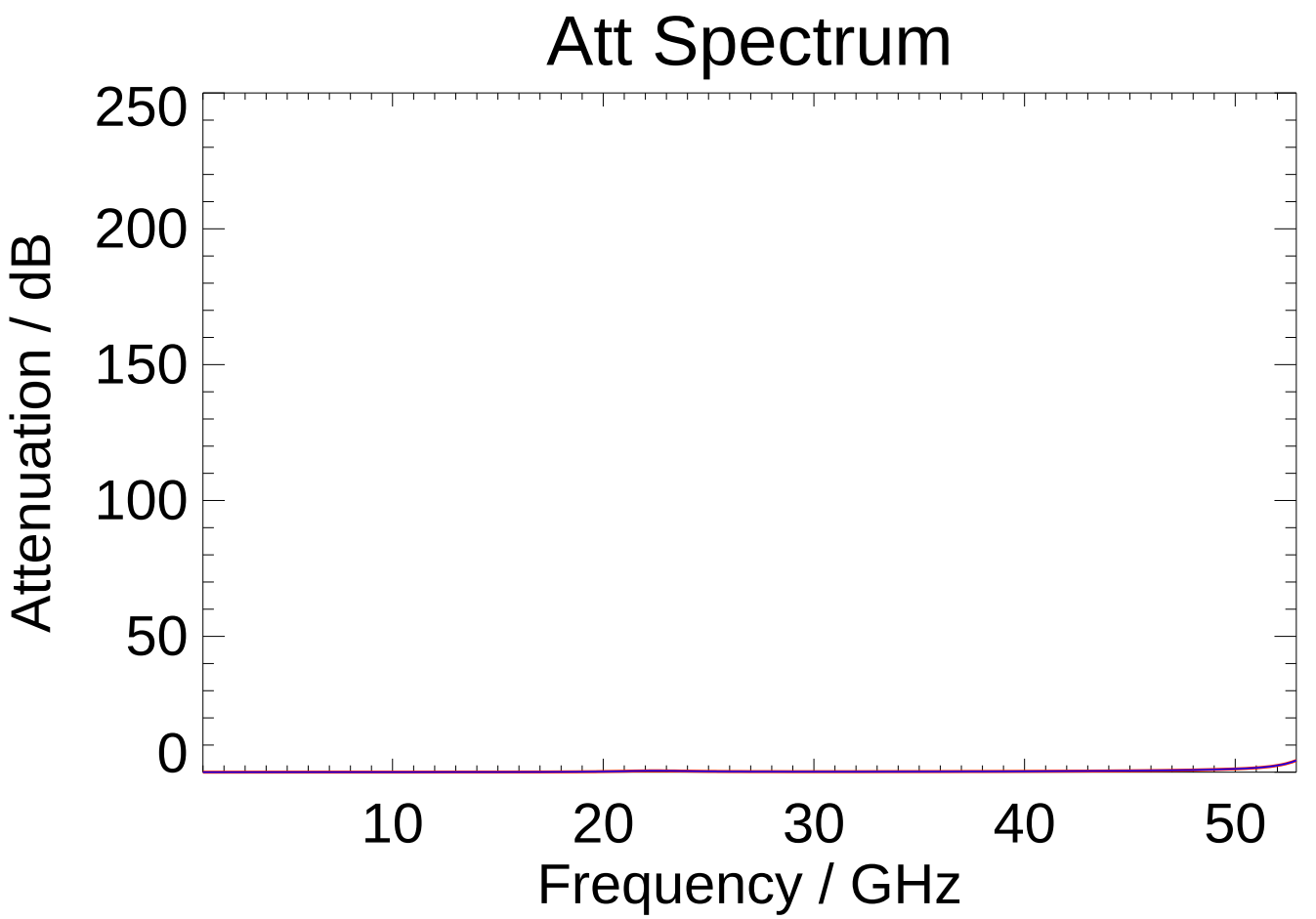
Frequency / GHz


Att Spectrum
Attenuation / dB
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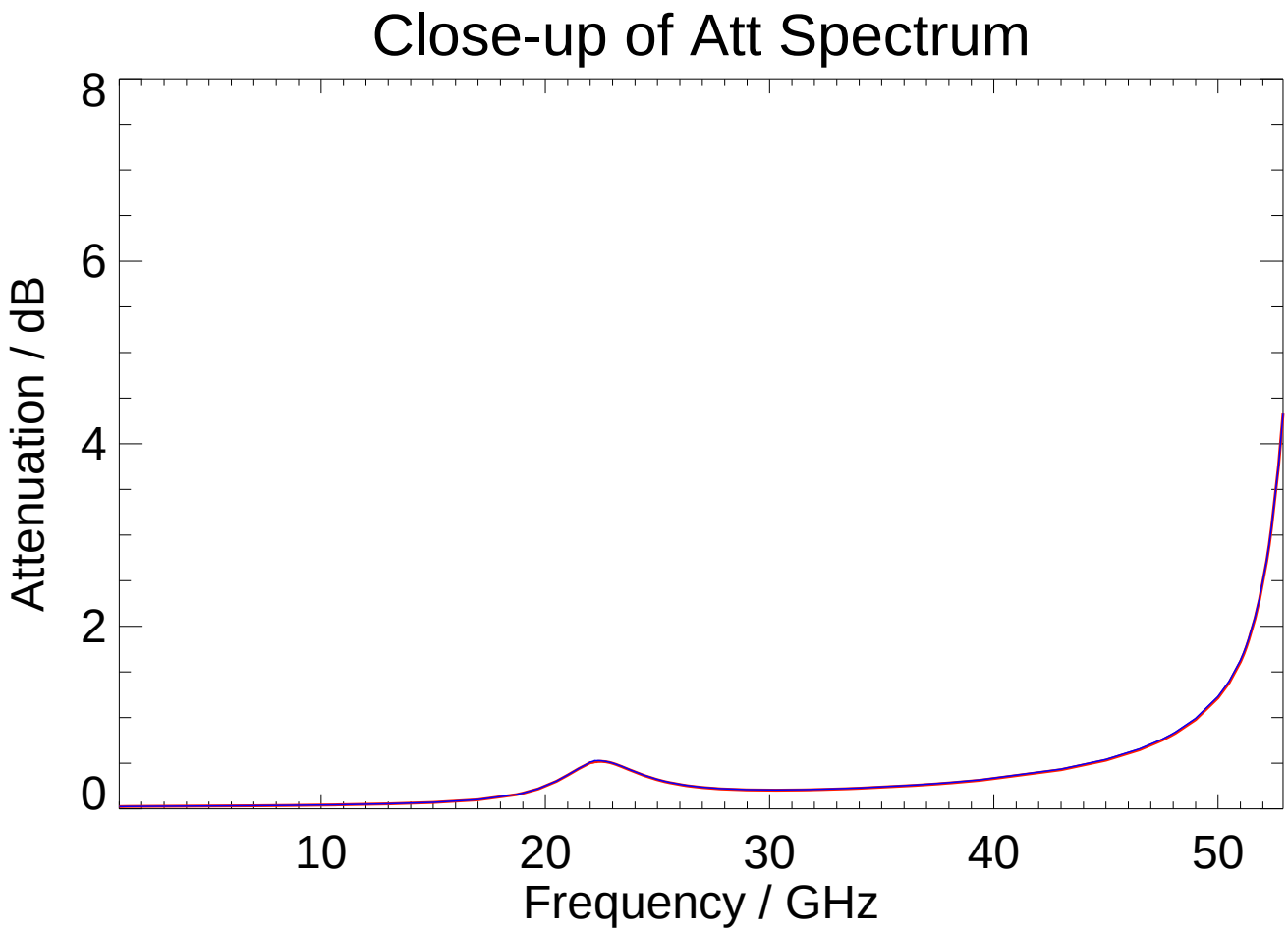
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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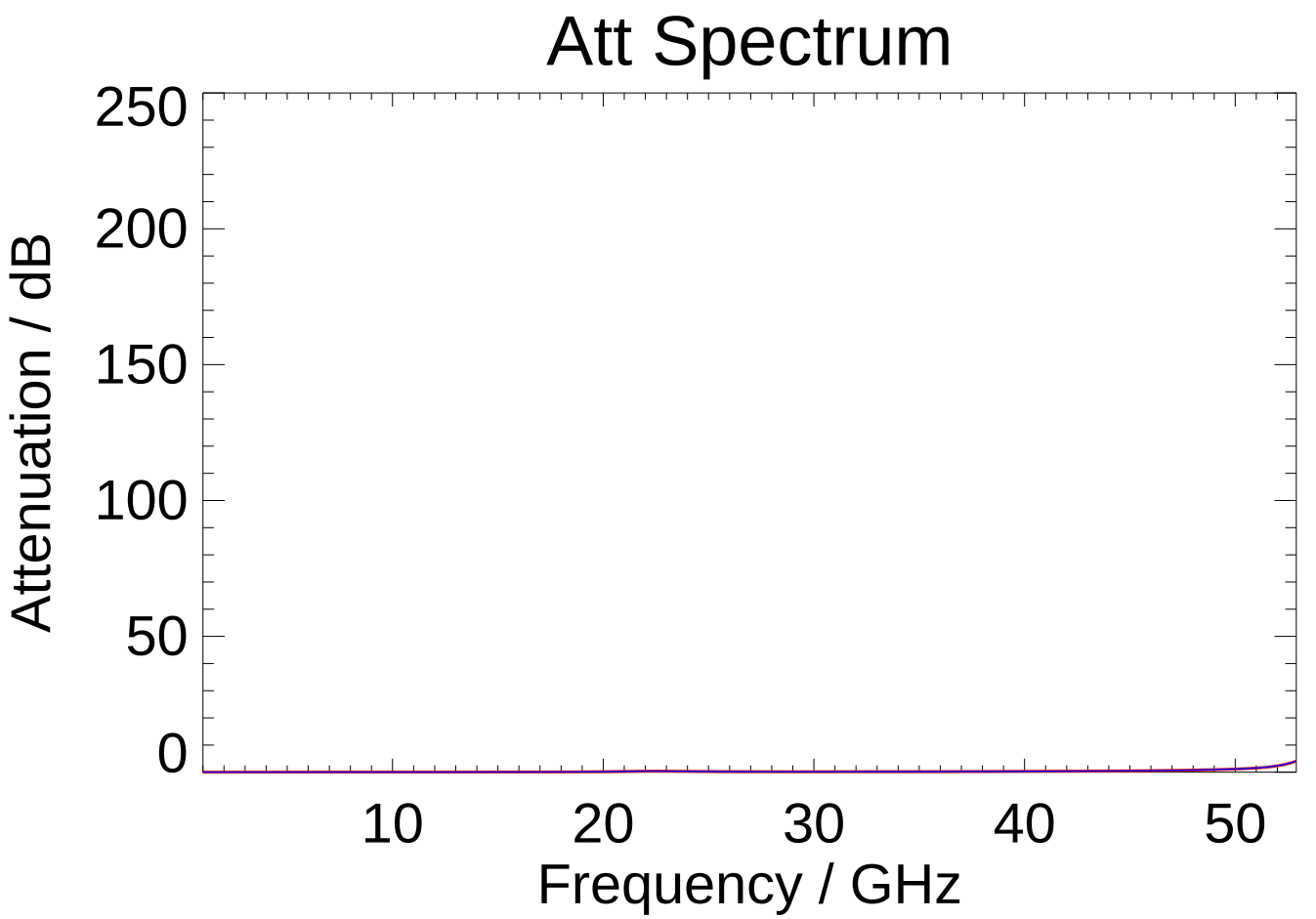
Frequency / GHz


Att Spectrum
Attenuation / dB
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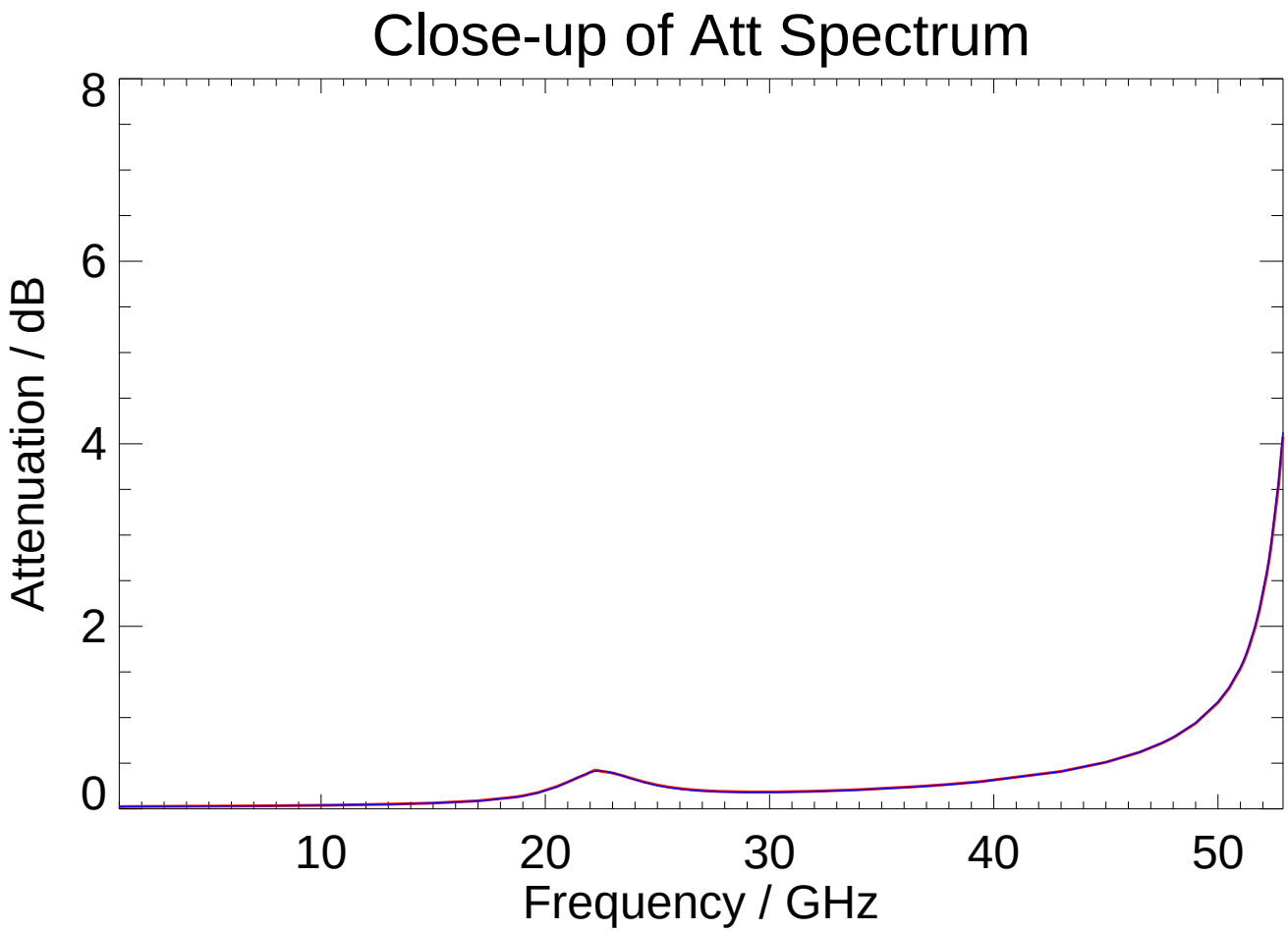
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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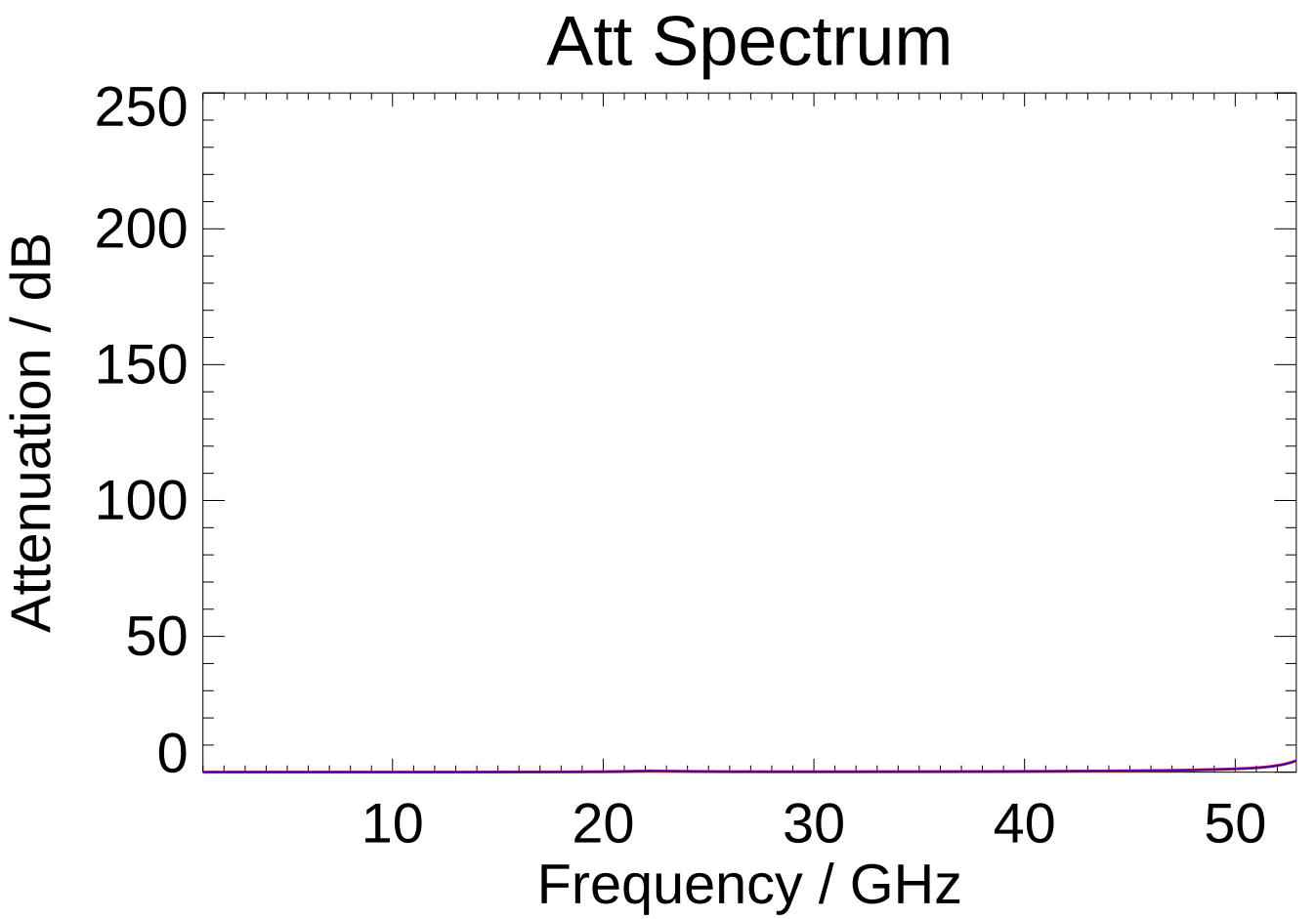
Frequency / GHz


Att Spectrum
Attenuation / dB
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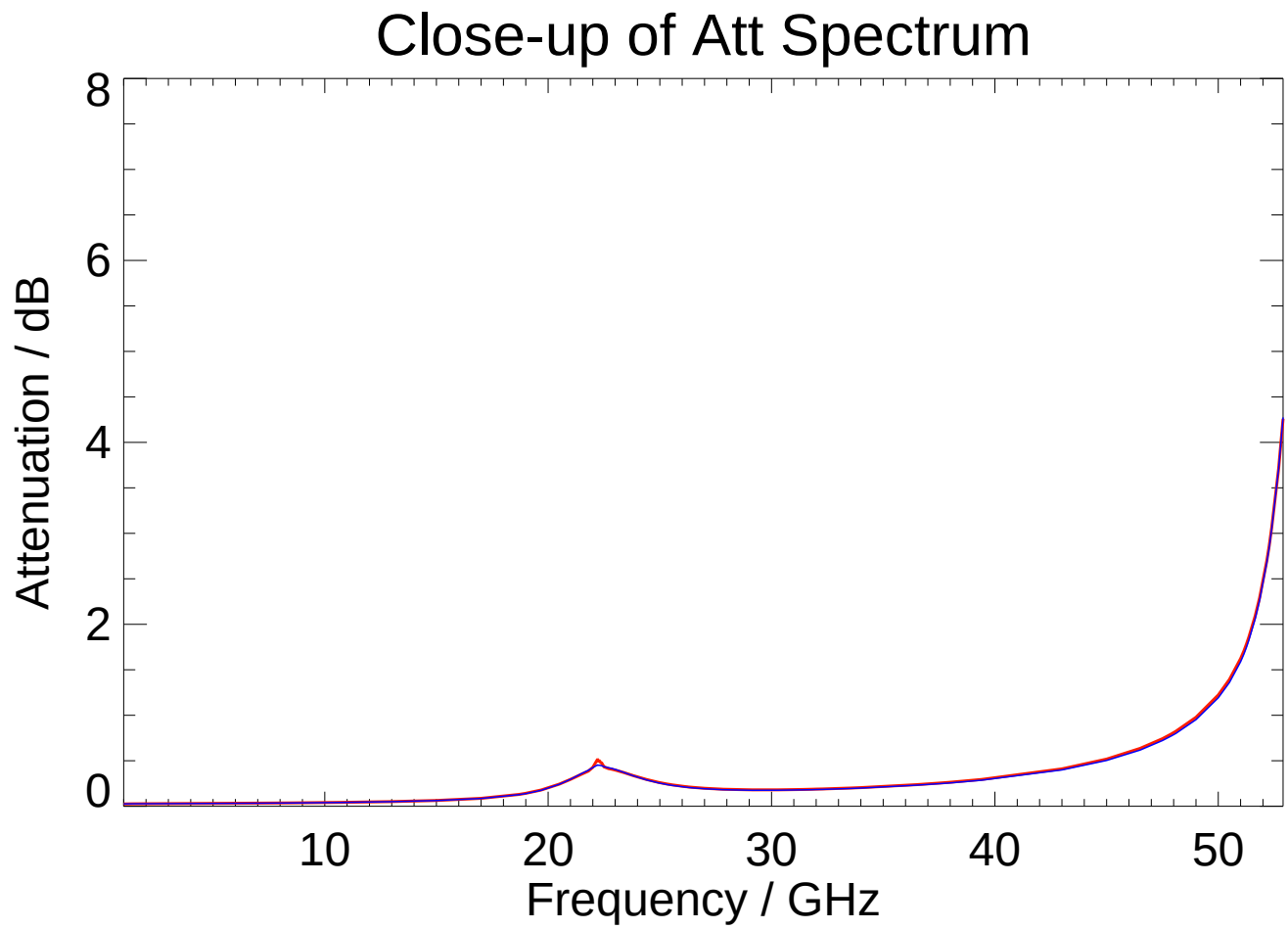
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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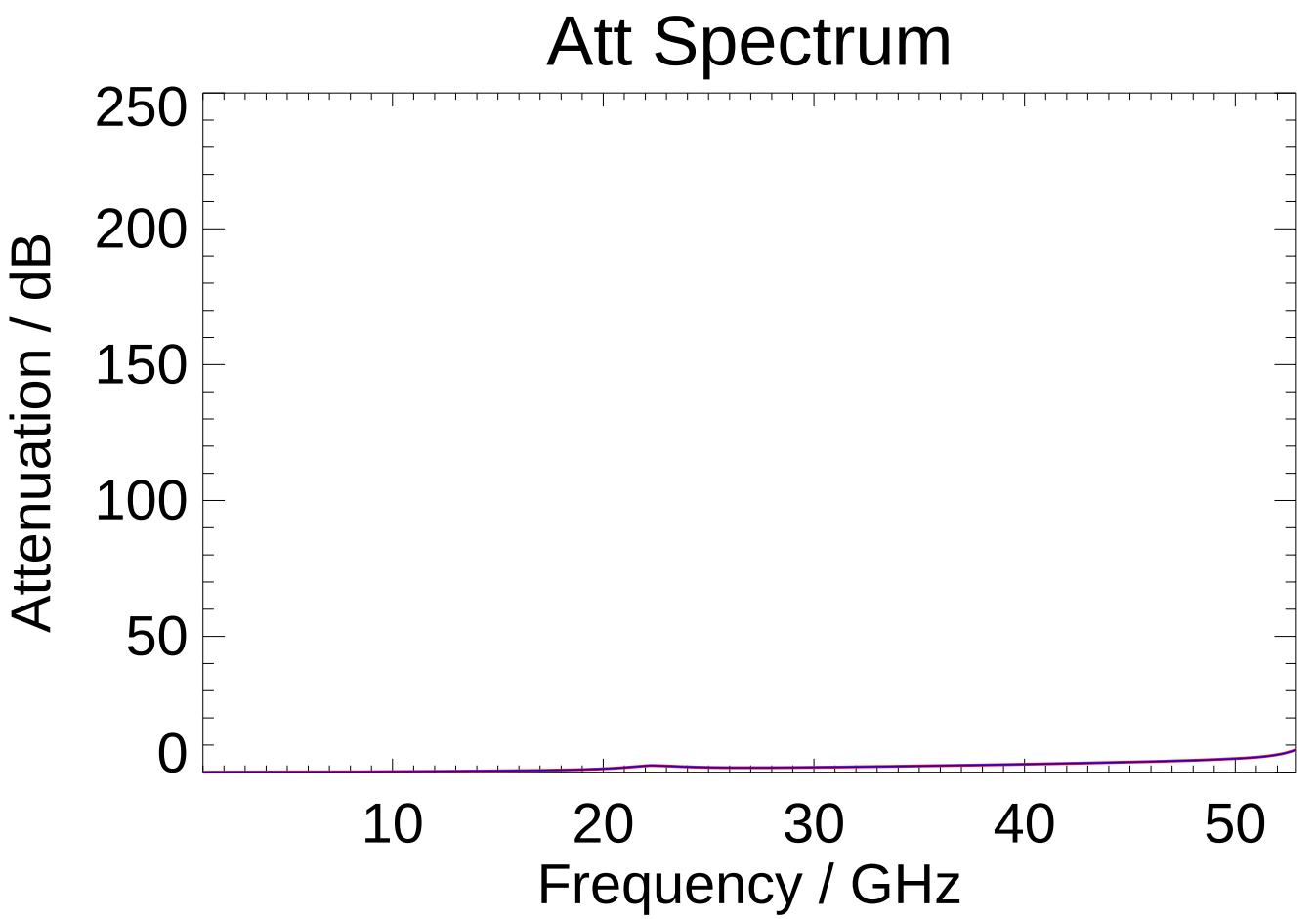
Frequency / GHz


Att Spectrum
Attenuation / dB
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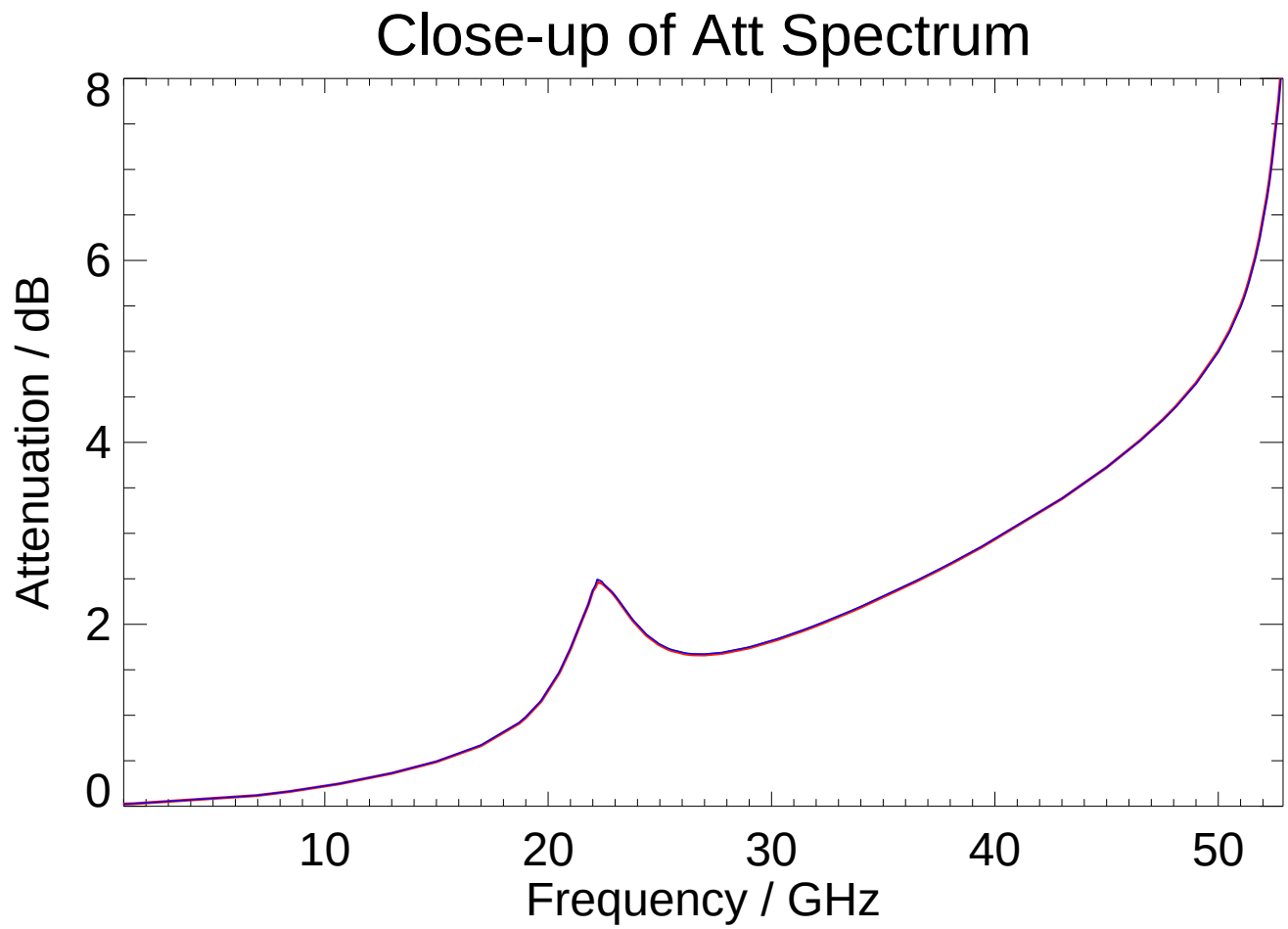
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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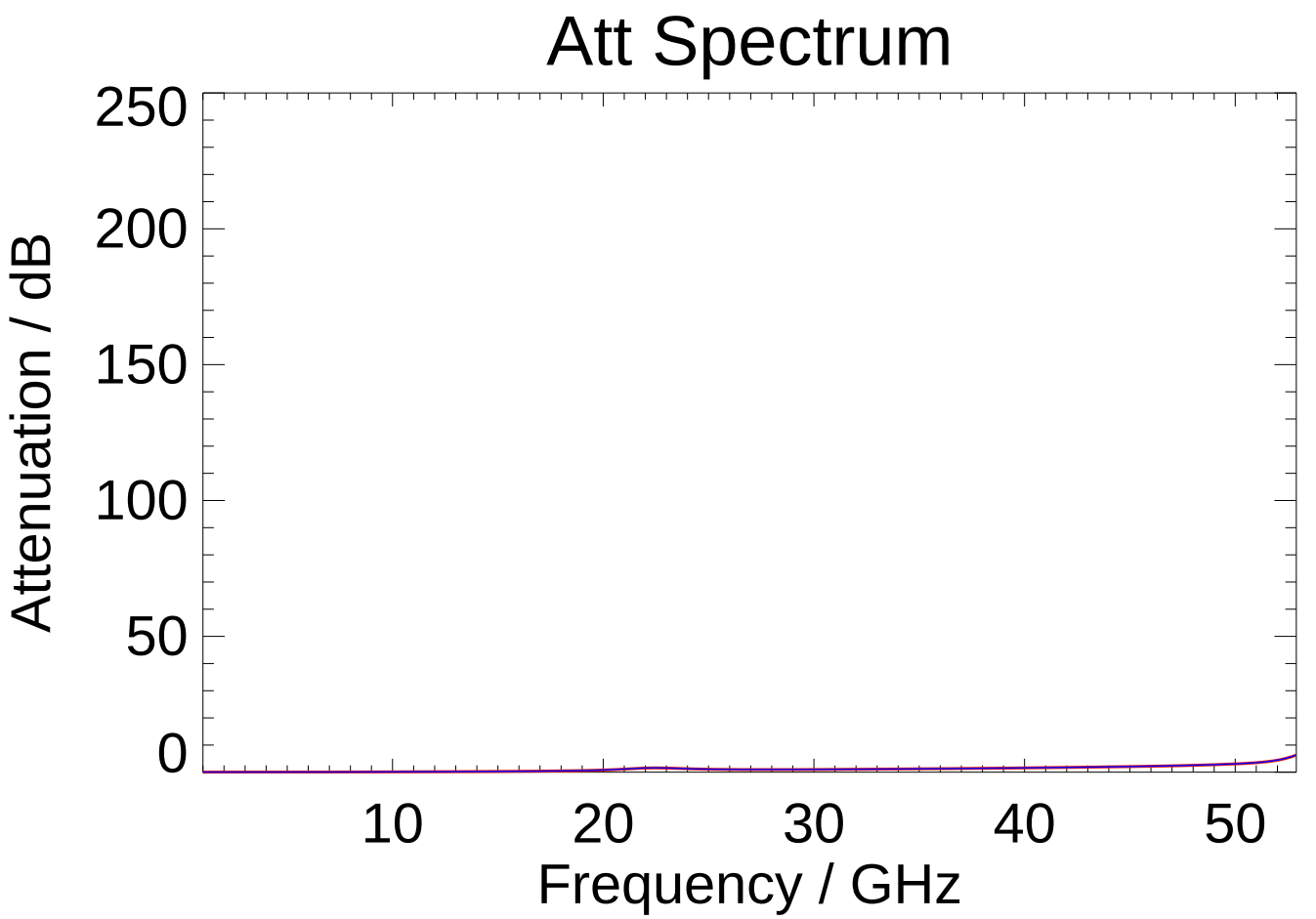
Frequency / GHz


Att Spectrum
Attenuation / dB
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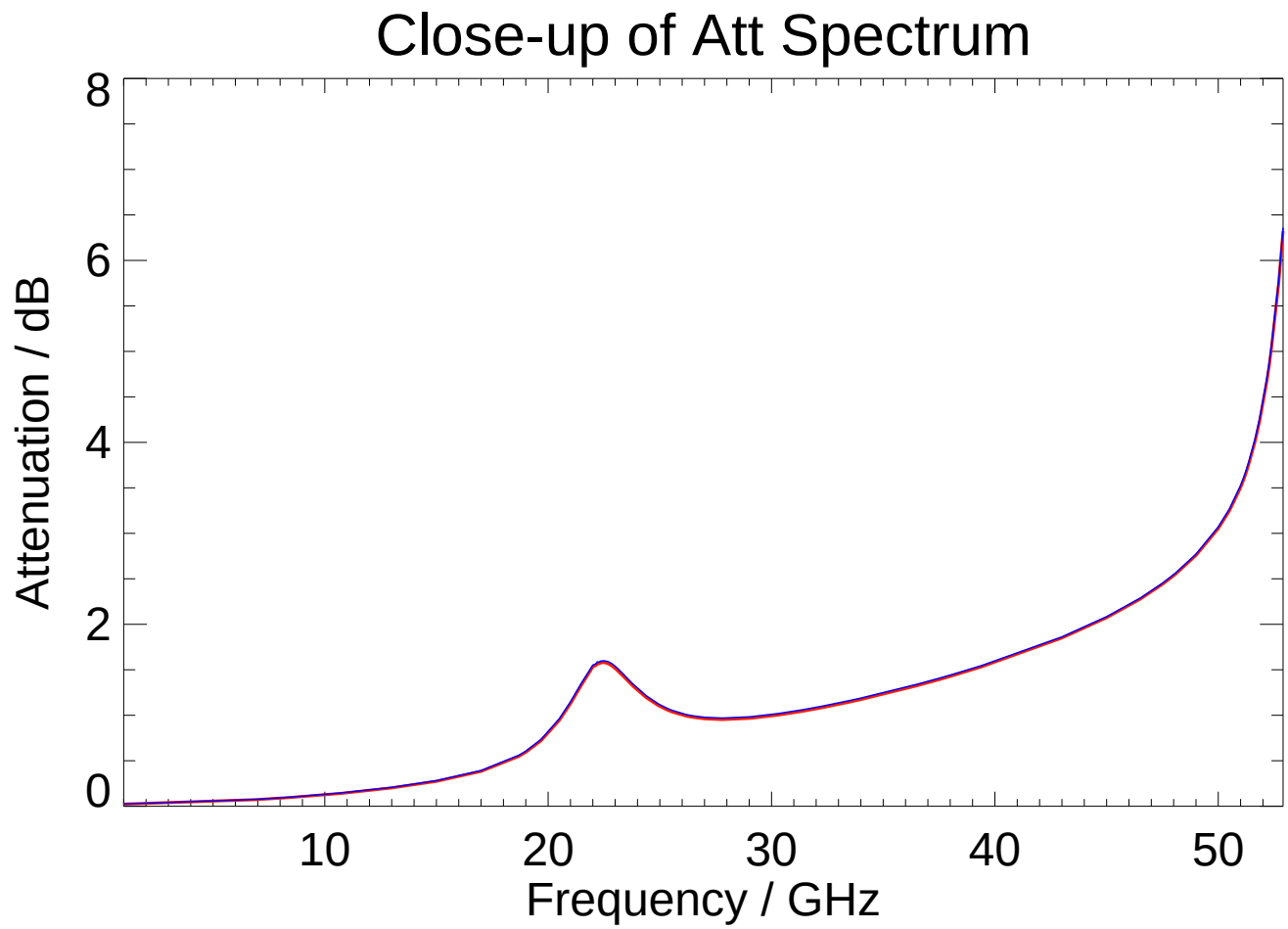
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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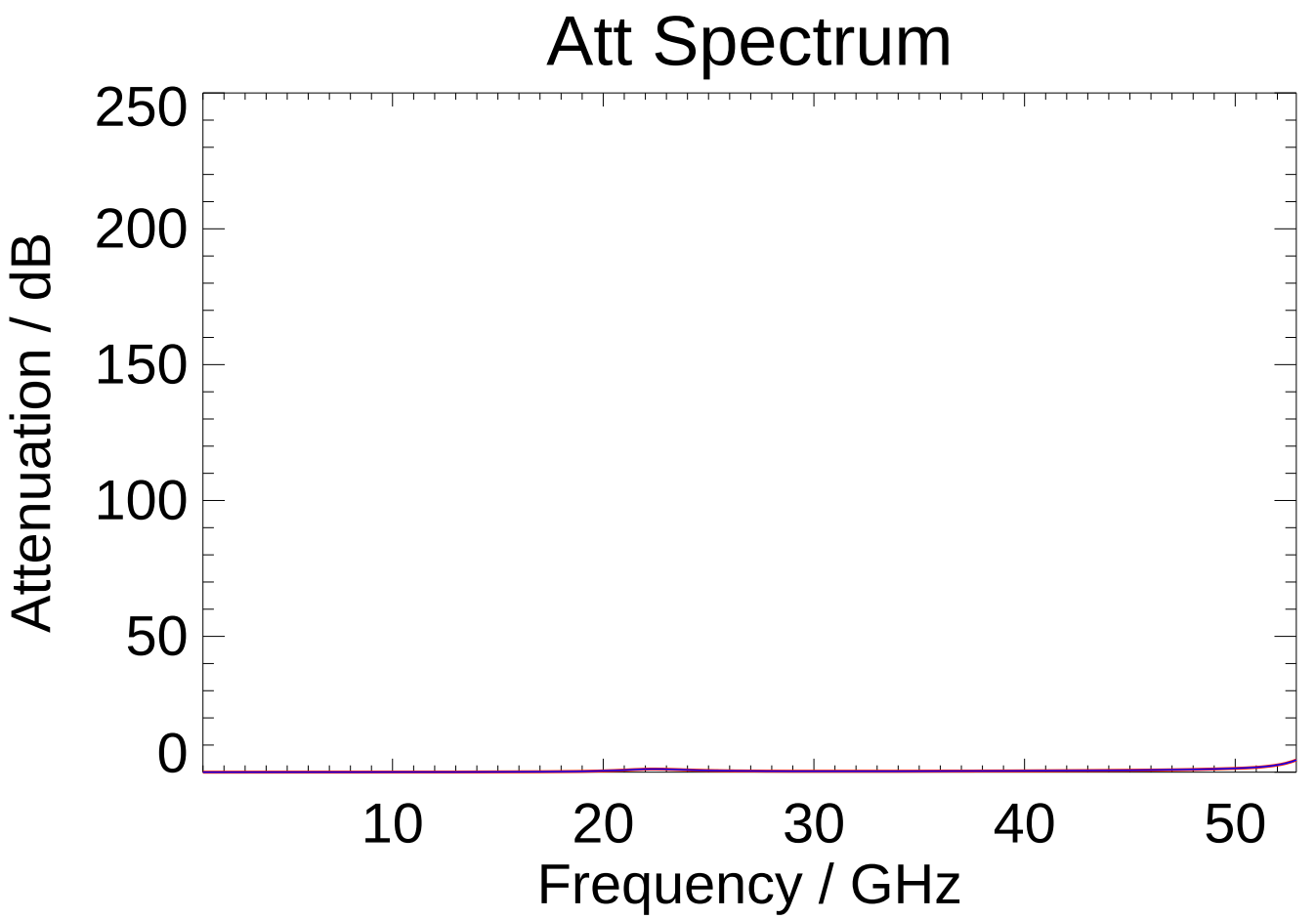
Frequency / GHz


Att Spectrum
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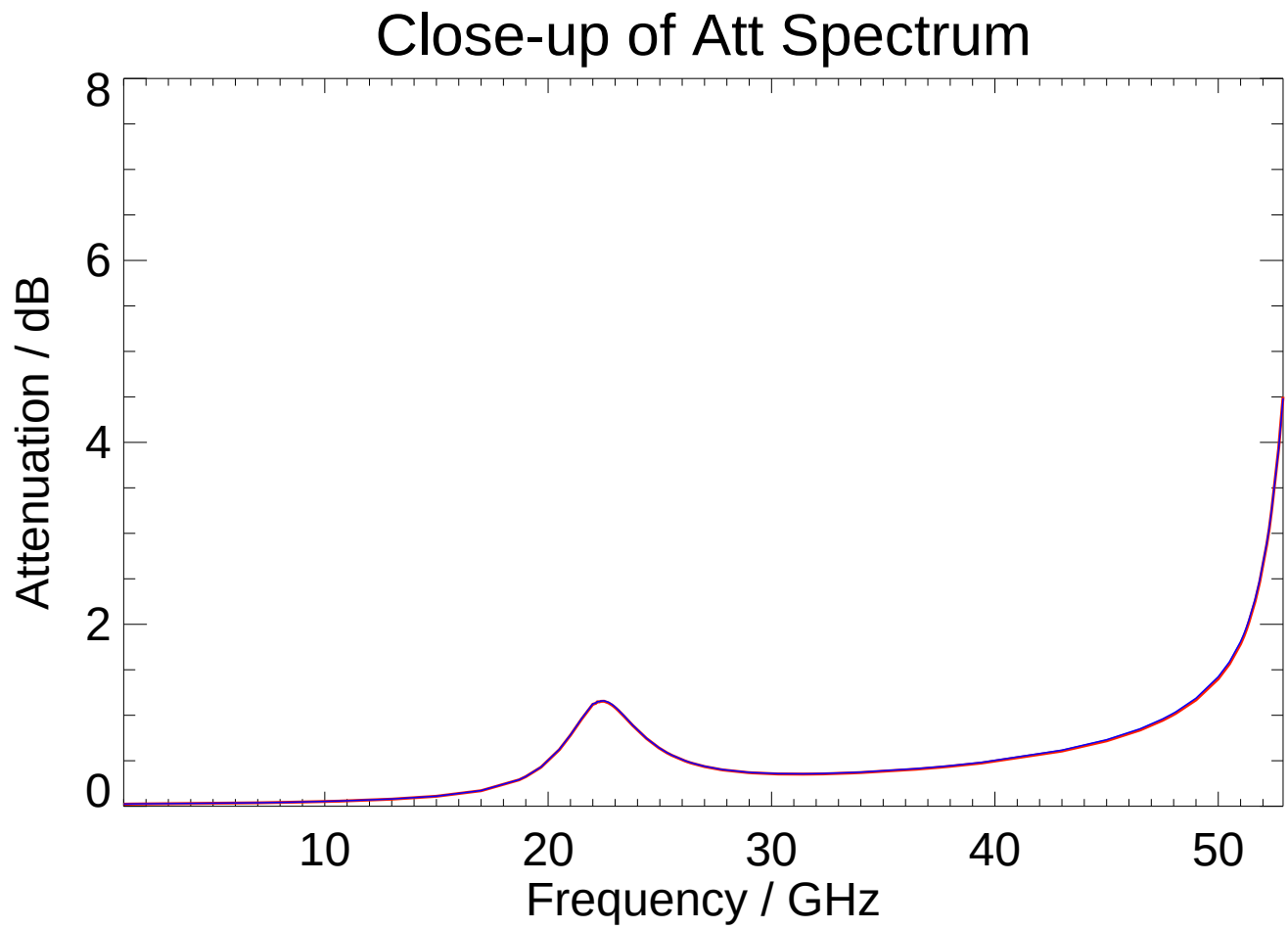
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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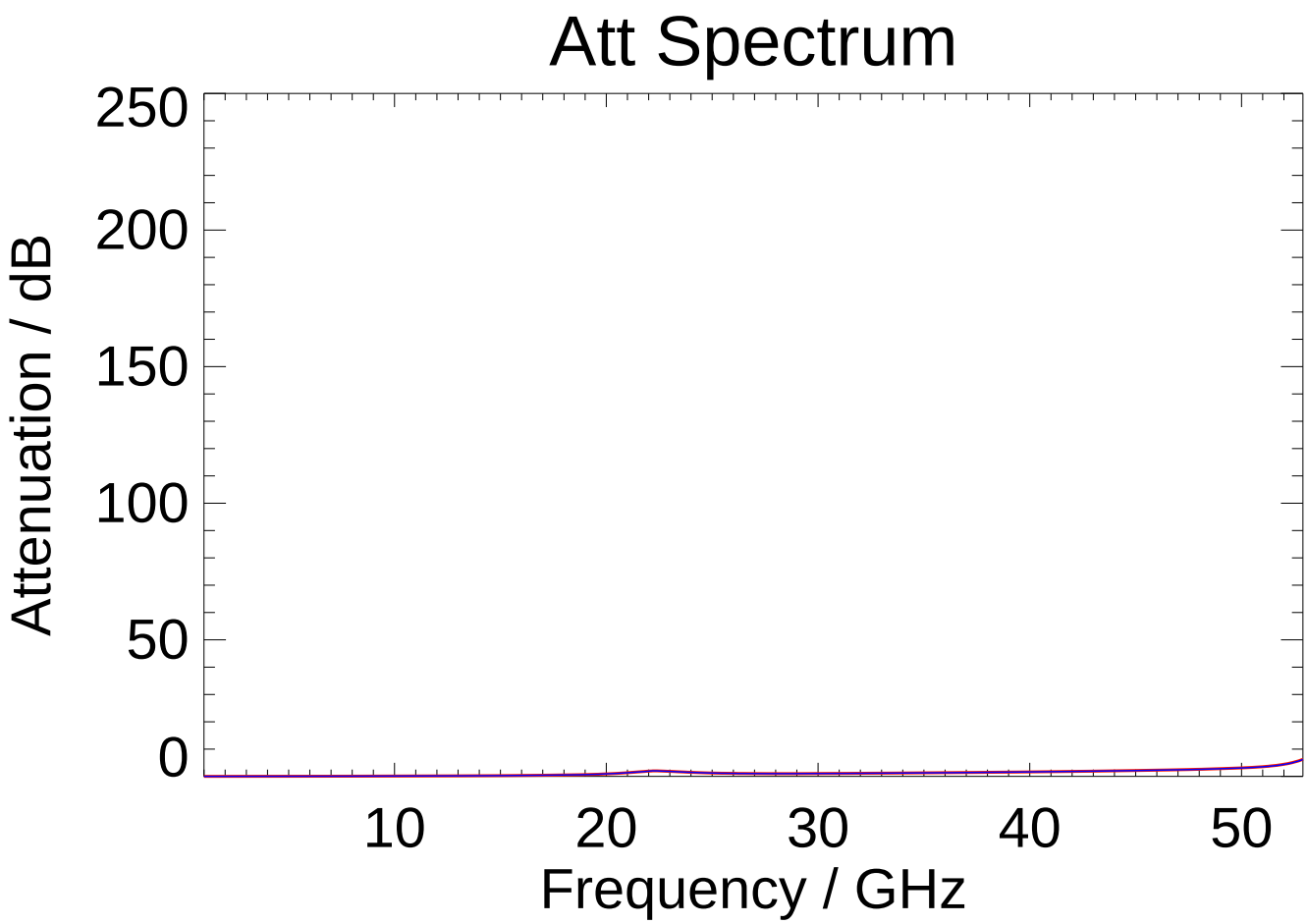
Frequency / GHz


Att Spectrum
Attenuation / dB
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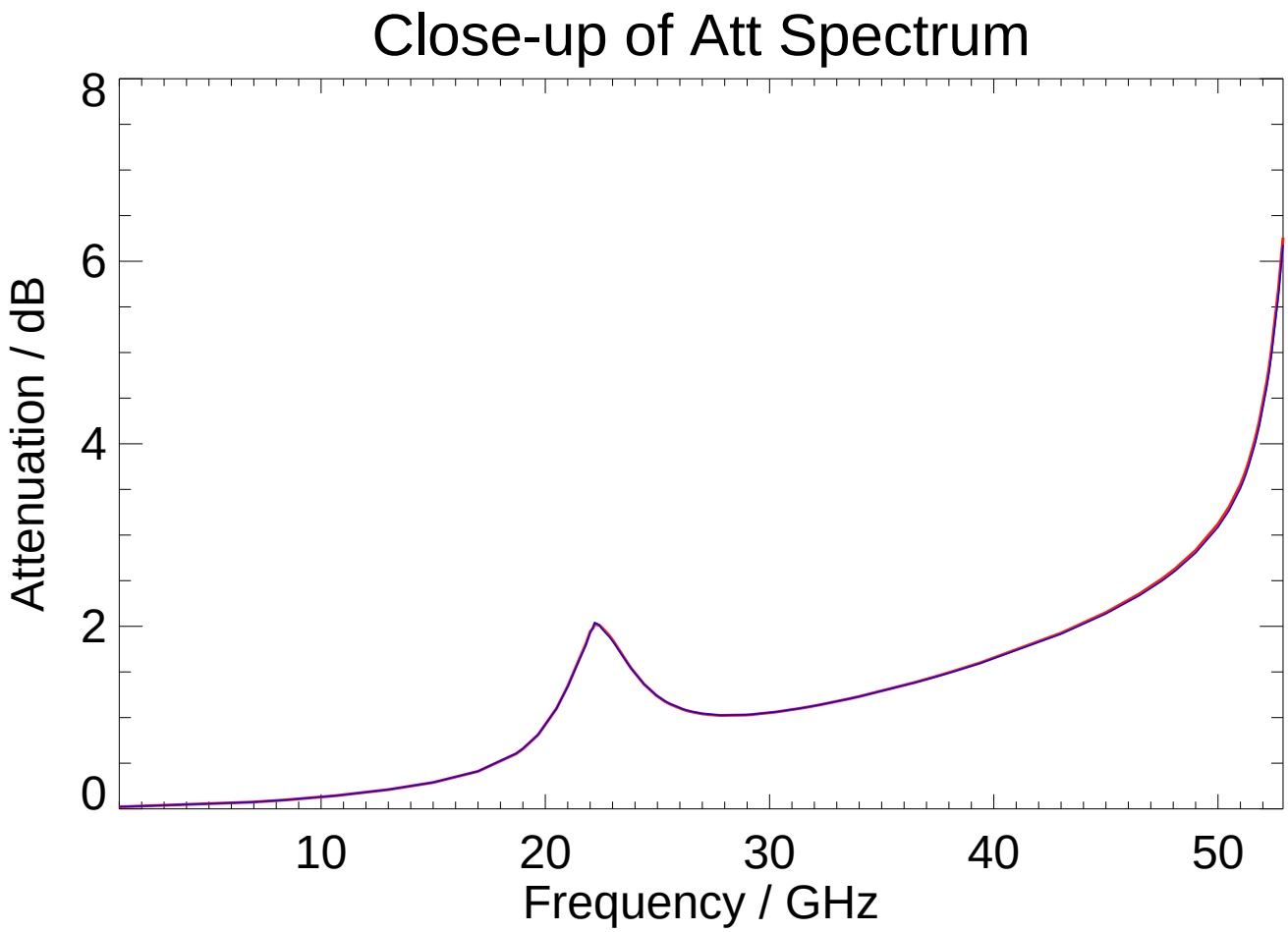
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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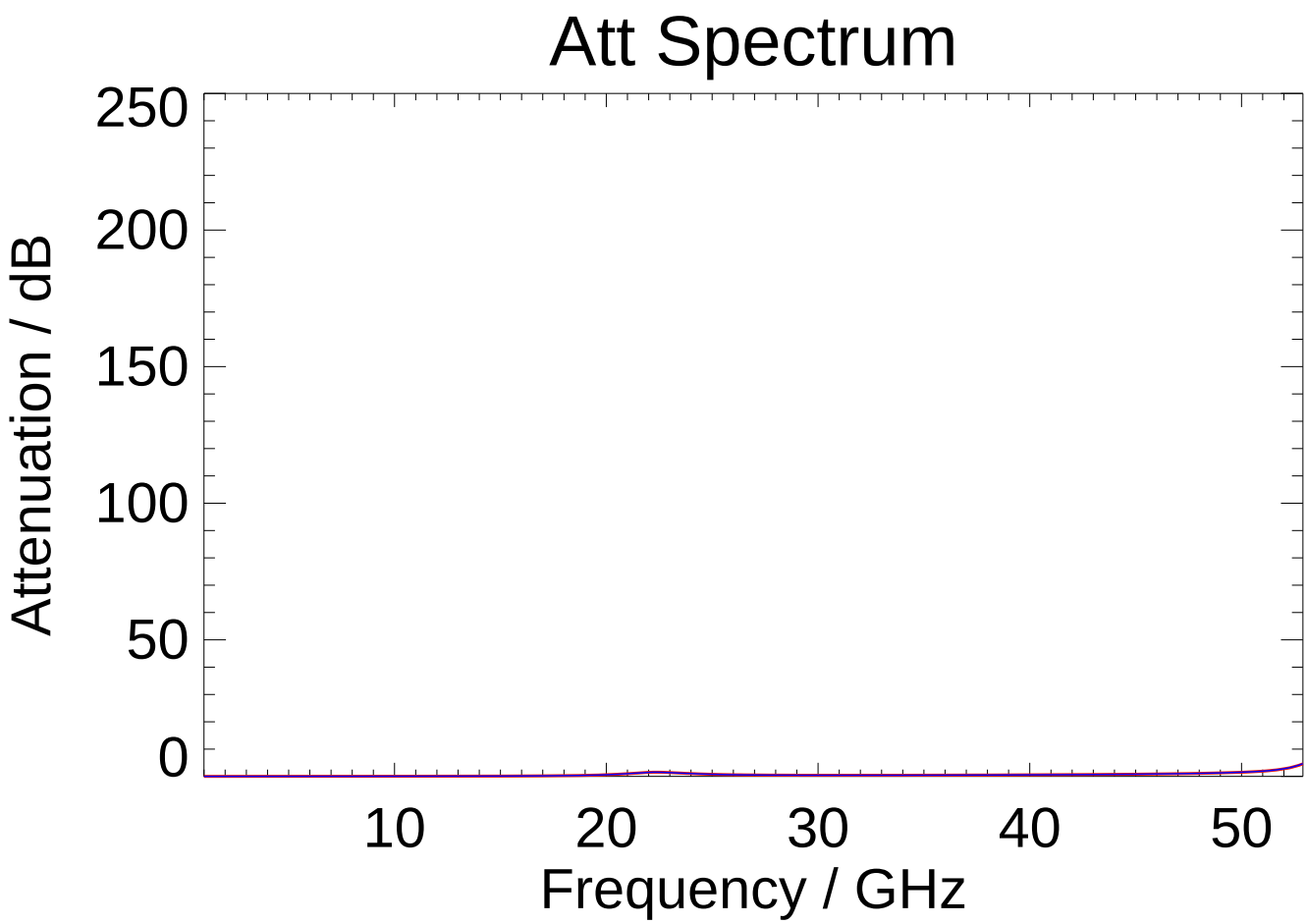
Frequency / GHz


Att Spectrum
Attenuation / dB
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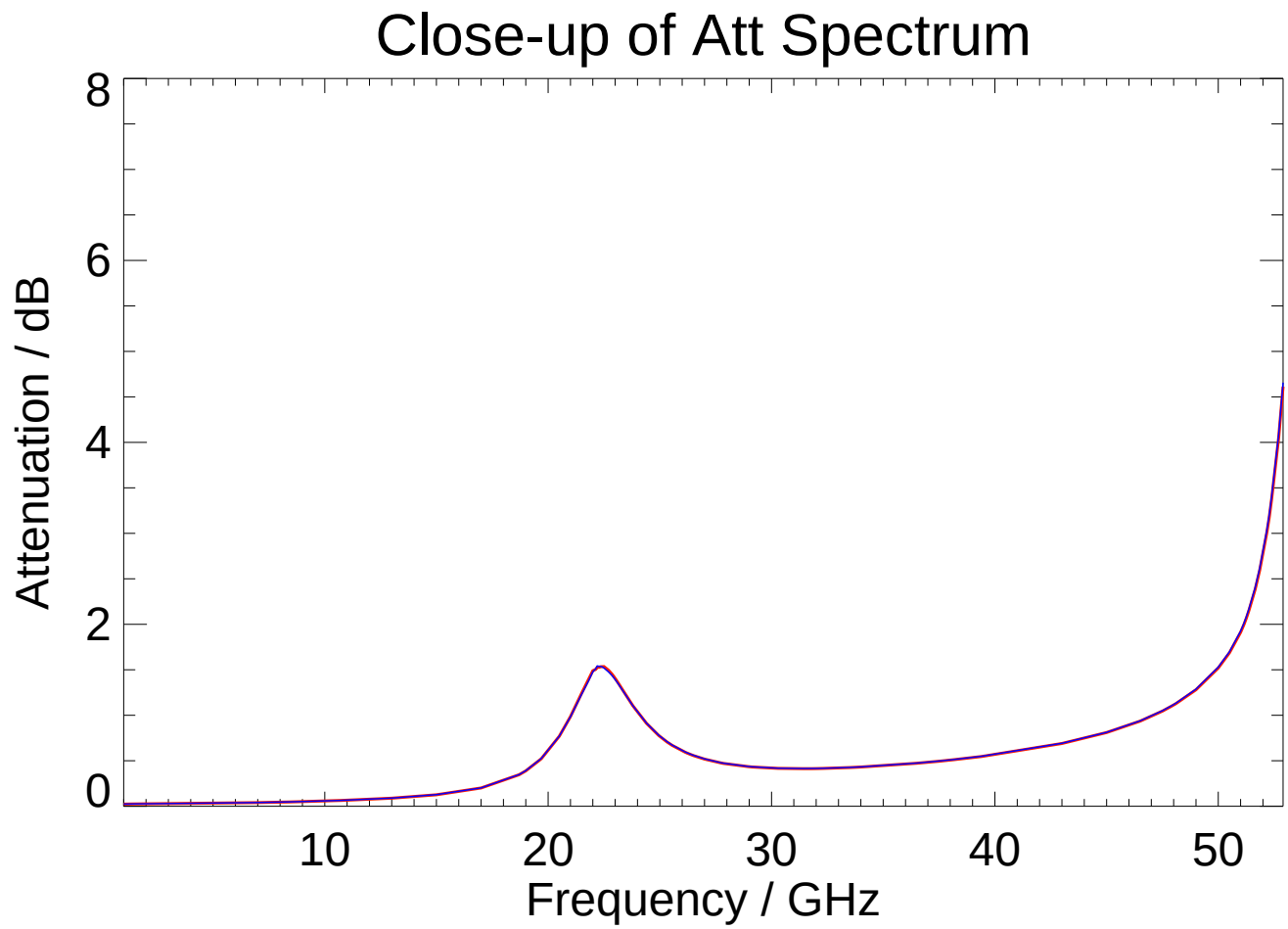
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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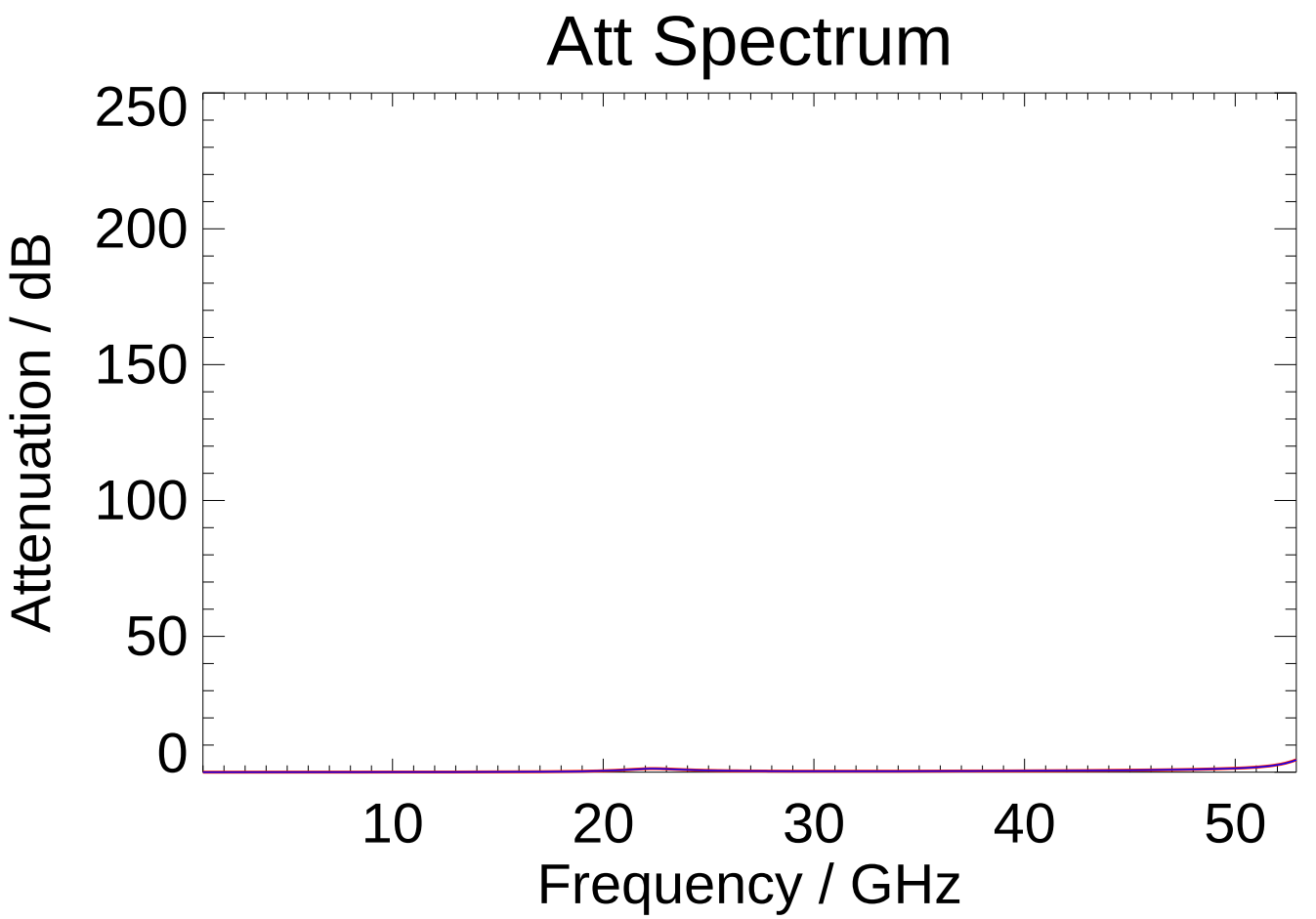
Frequency / GHz


Att Spectrum
Attenuation / dB
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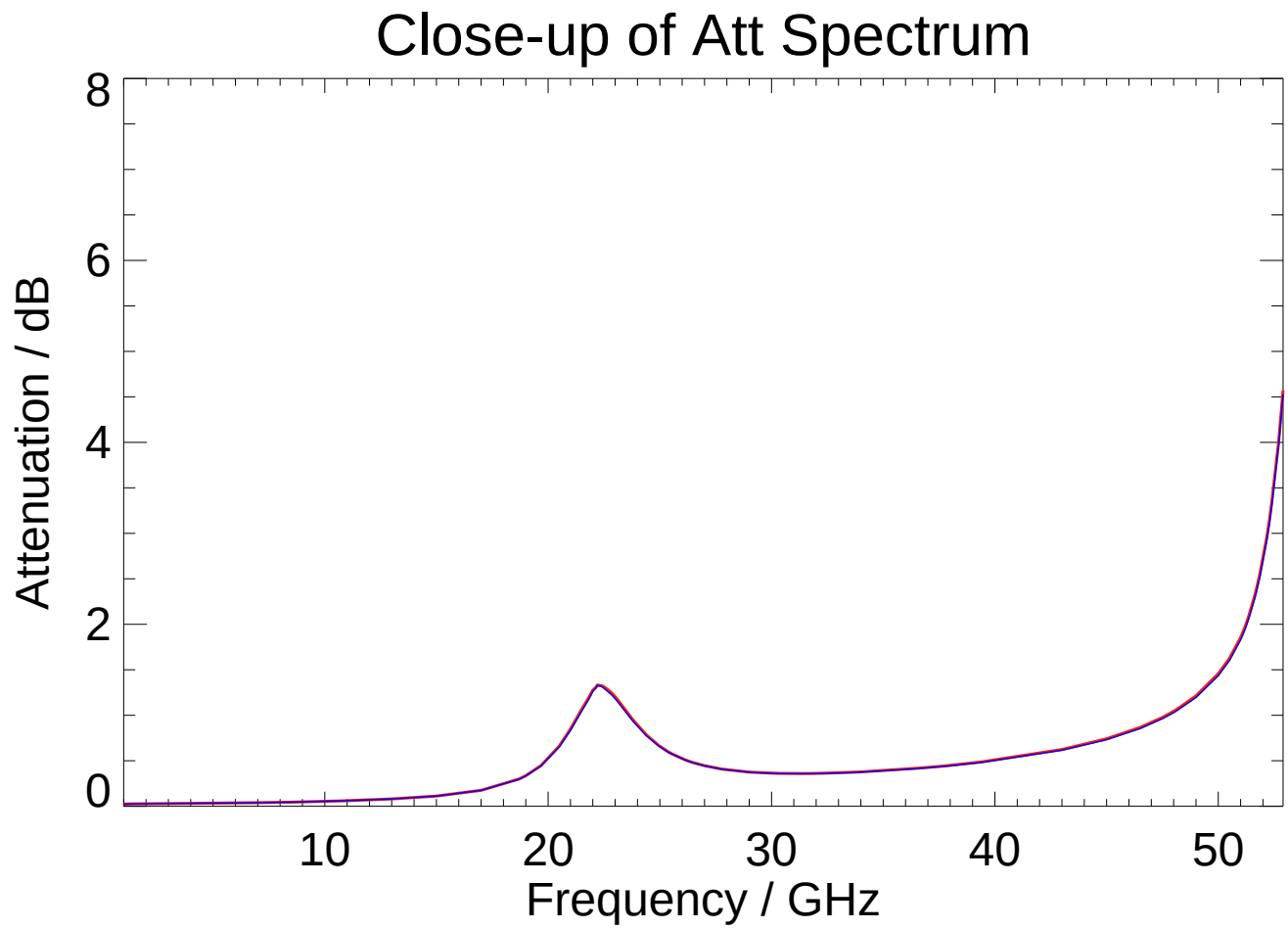
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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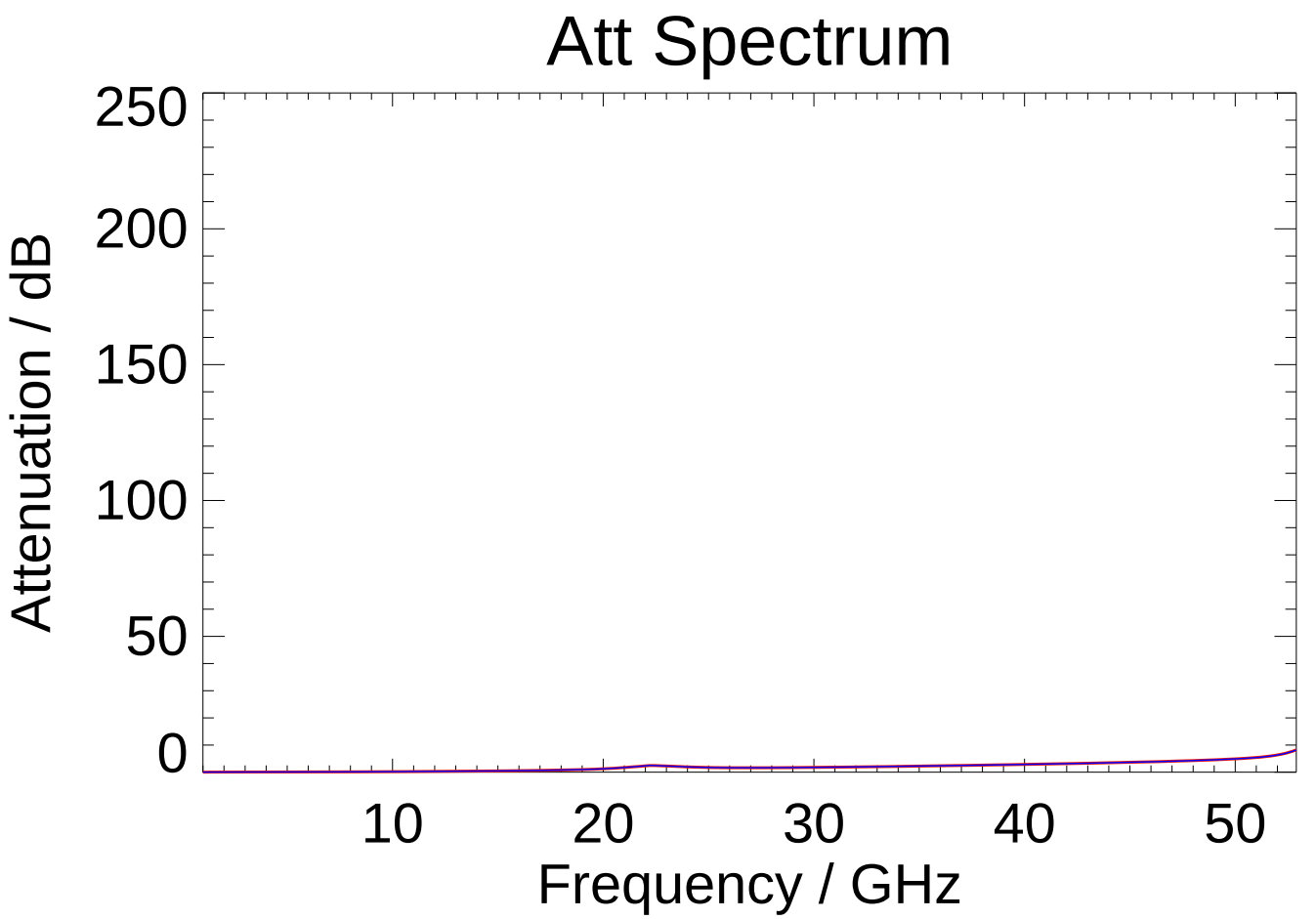
Frequency / GHz


Att Spectrum
Attenuation / dB
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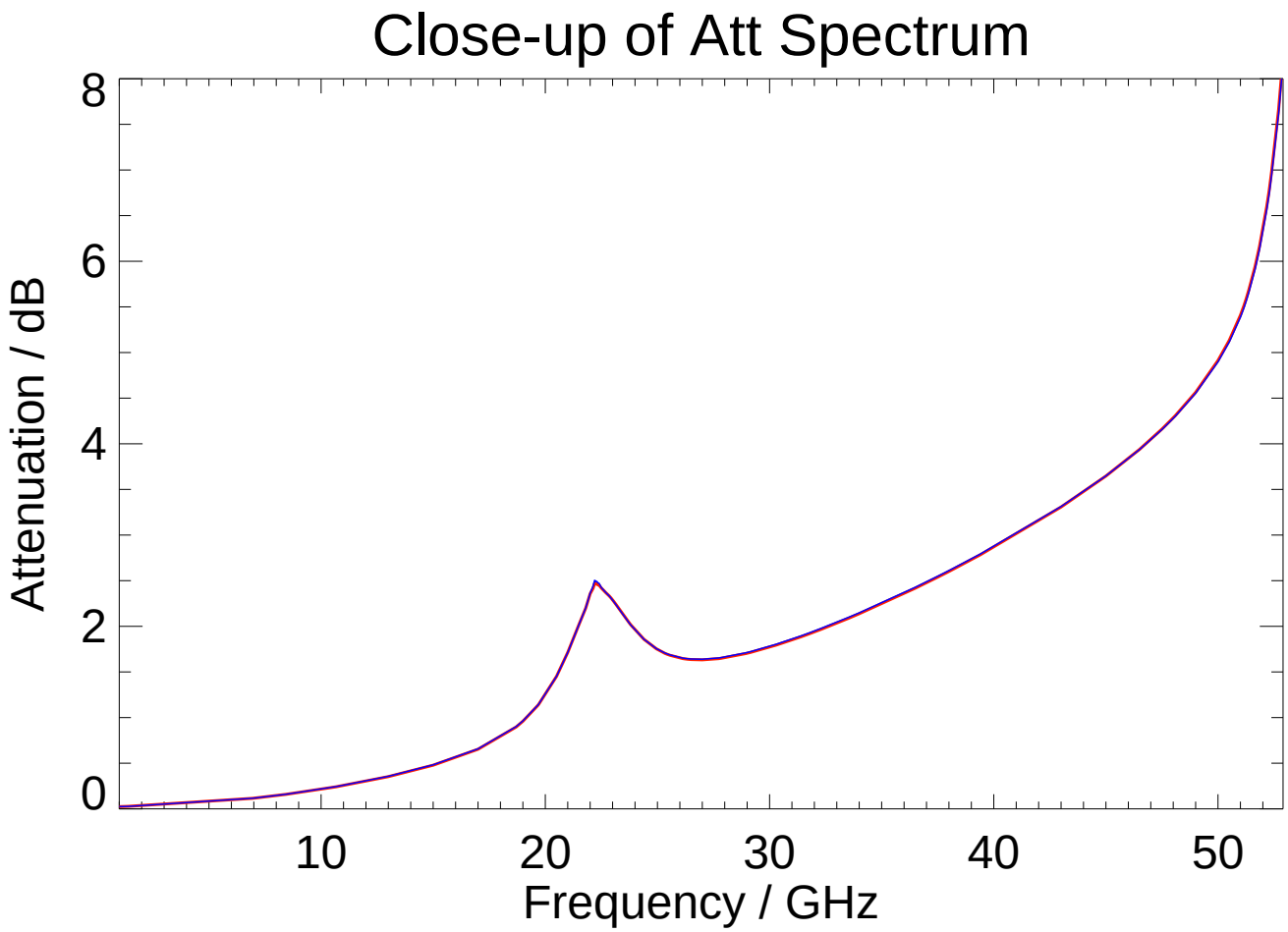
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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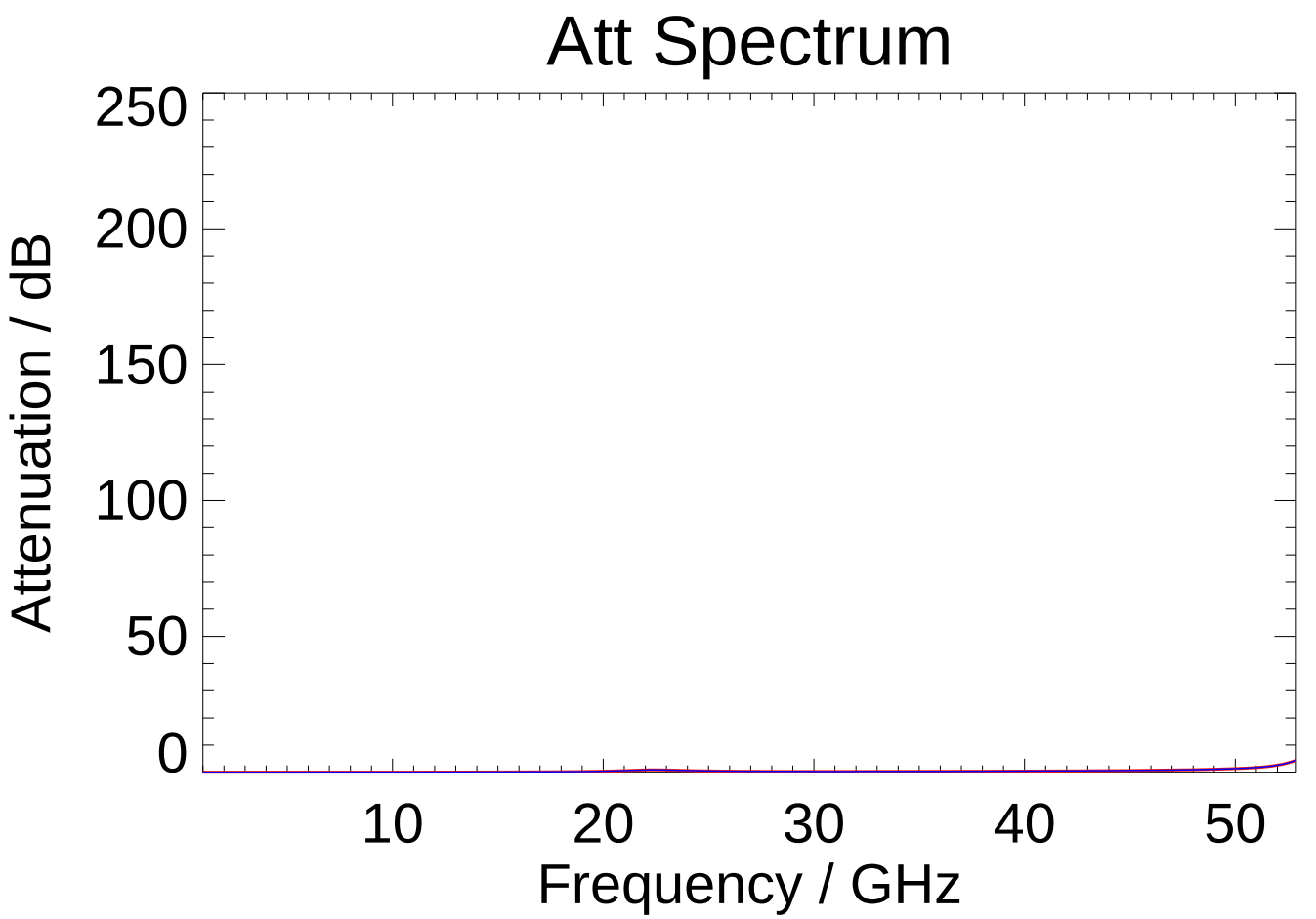
Frequency / GHz


Att Spectrum
Attenuation / dB
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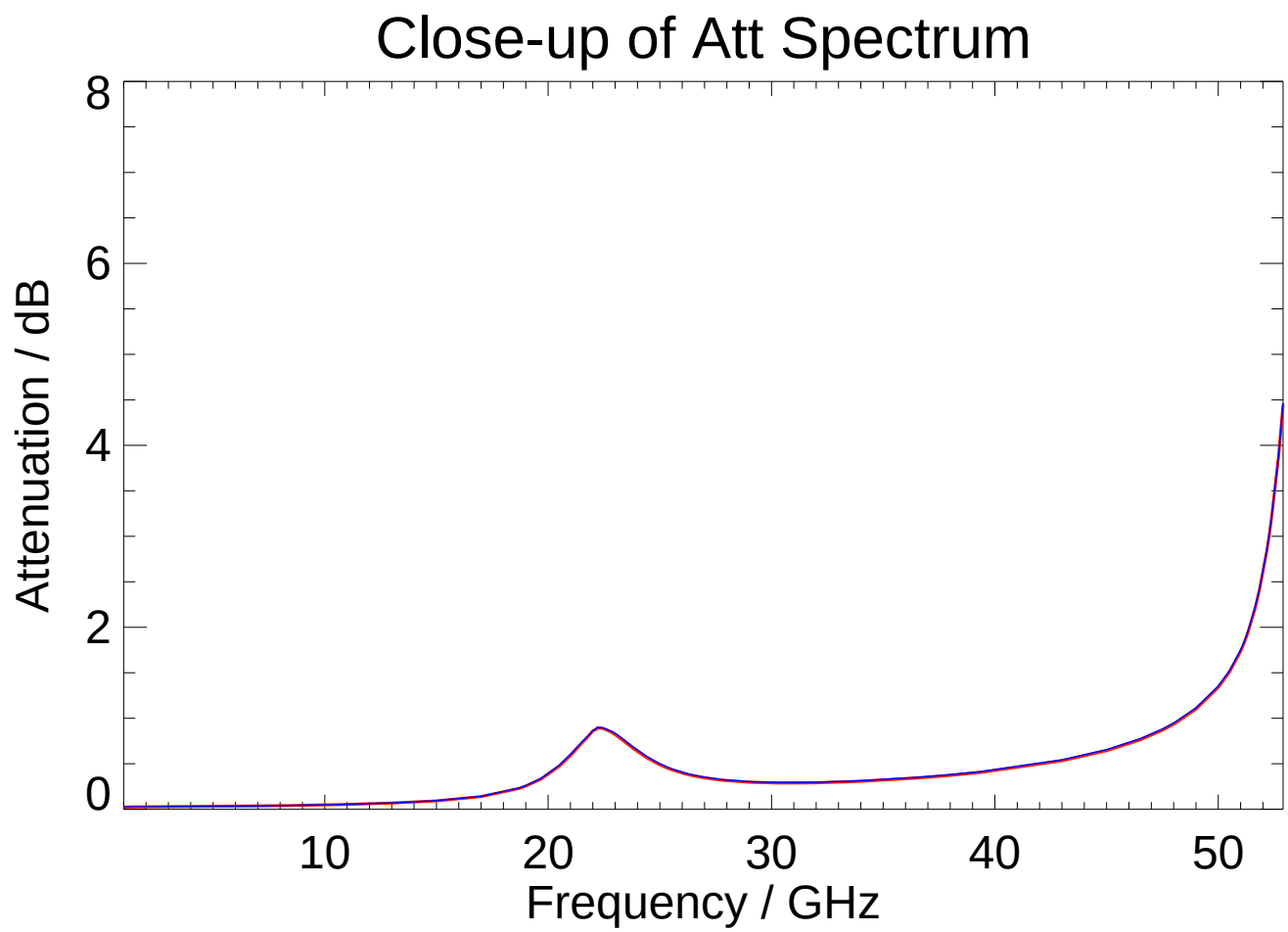
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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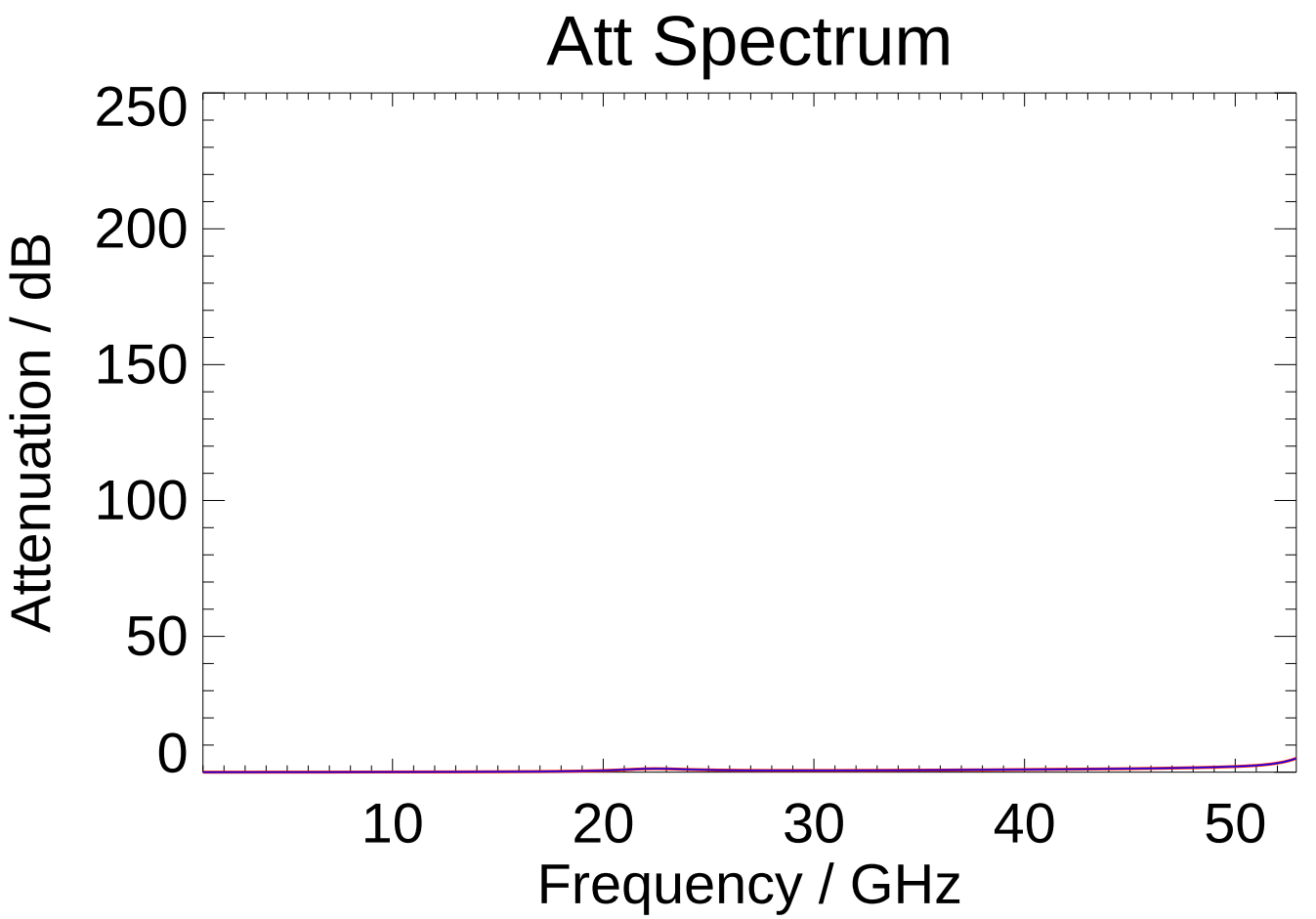
Frequency / GHz


Att Spectrum
Attenuation / dB
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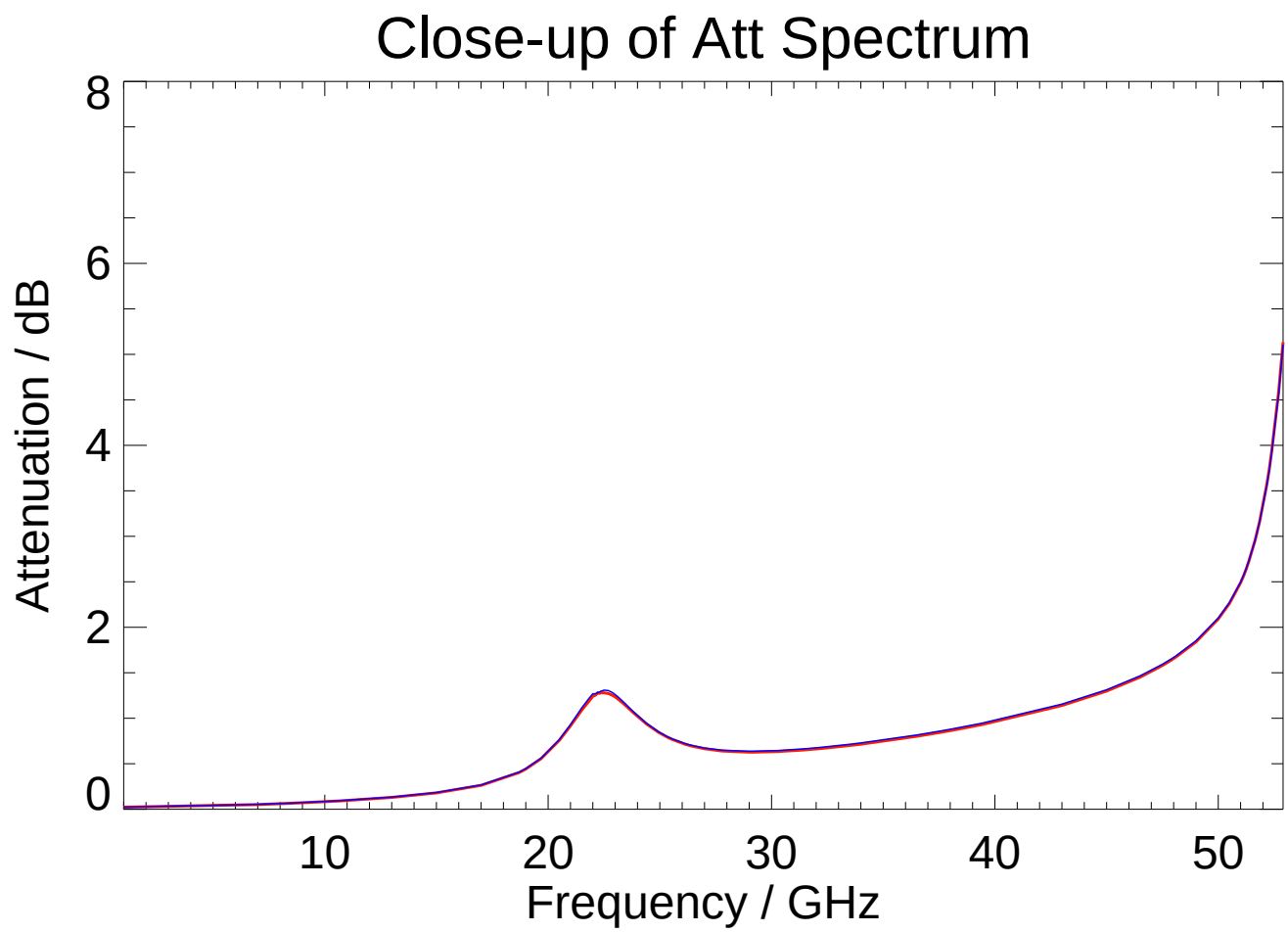
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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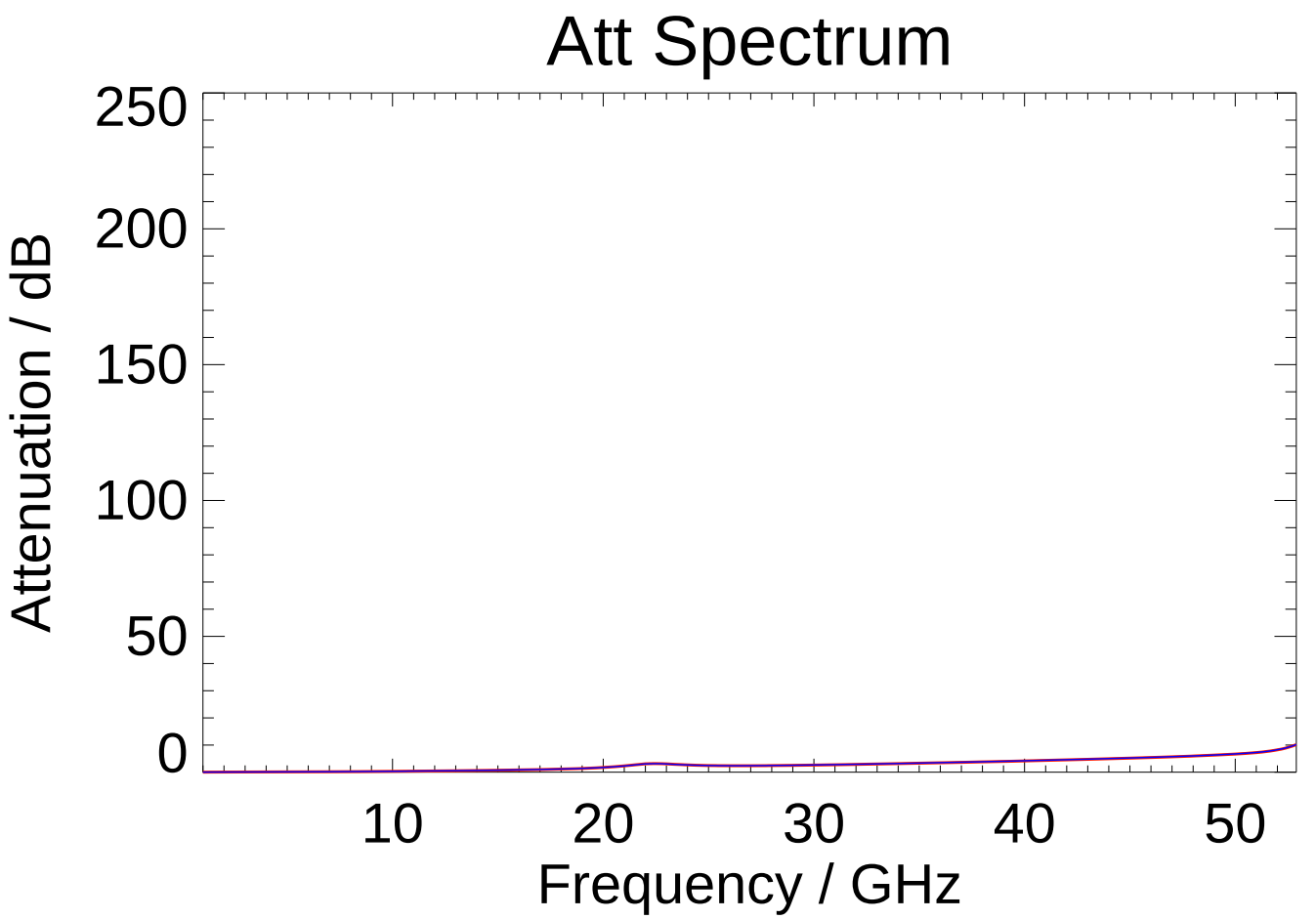
Frequency / GHz


Att Spectrum
Attenuation / dB
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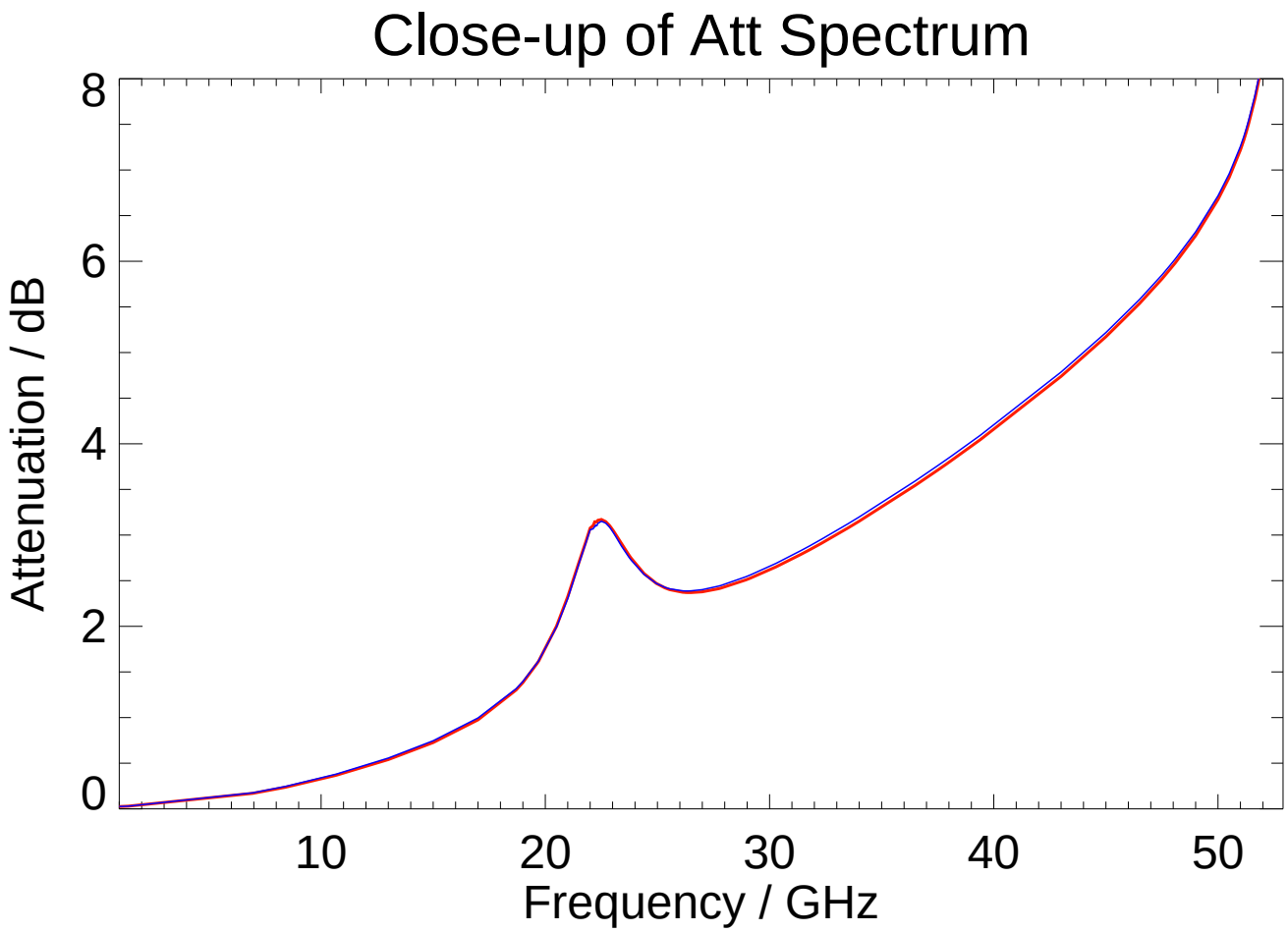
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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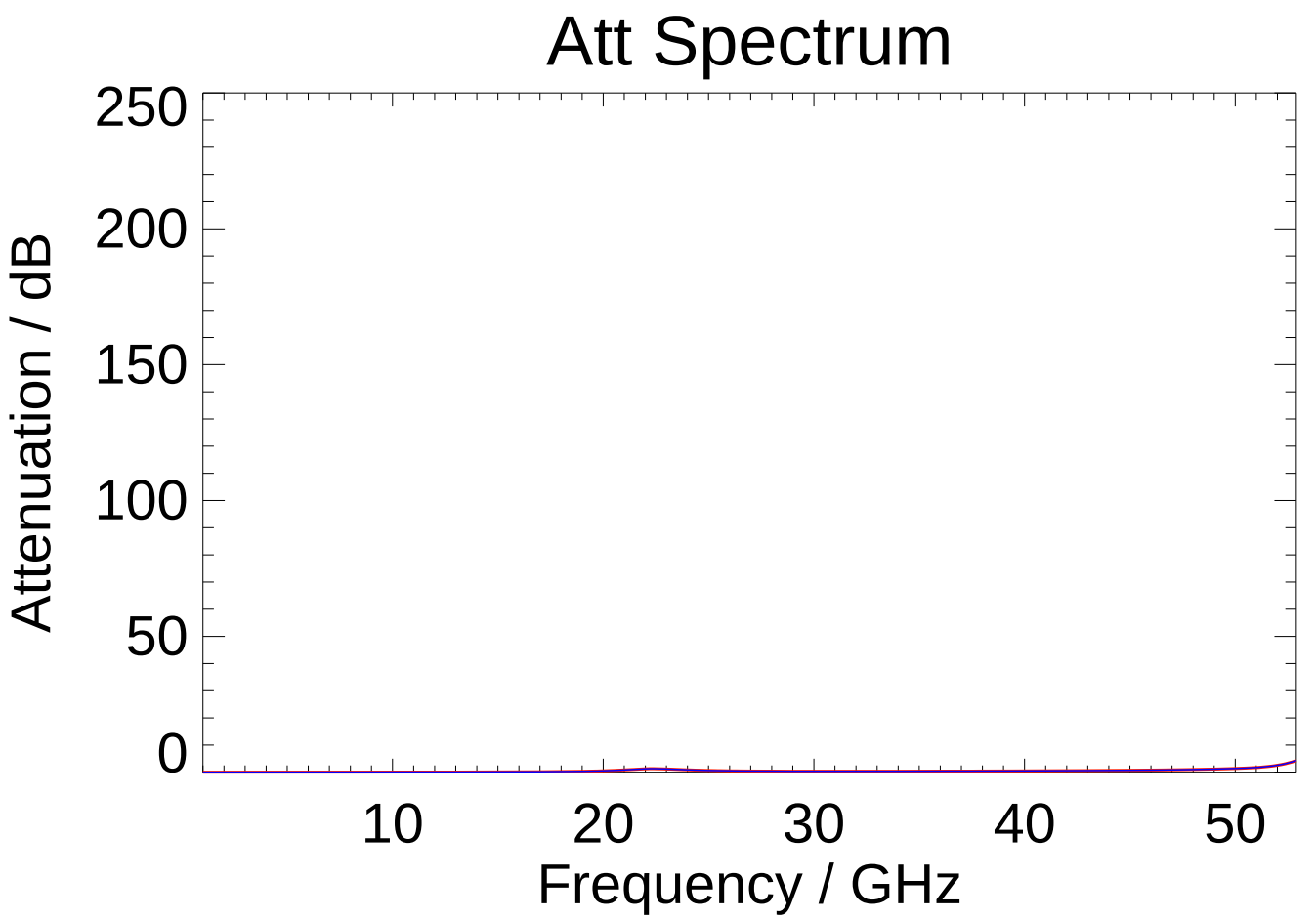
Frequency / GHz


Att Spectrum
Attenuation / dB
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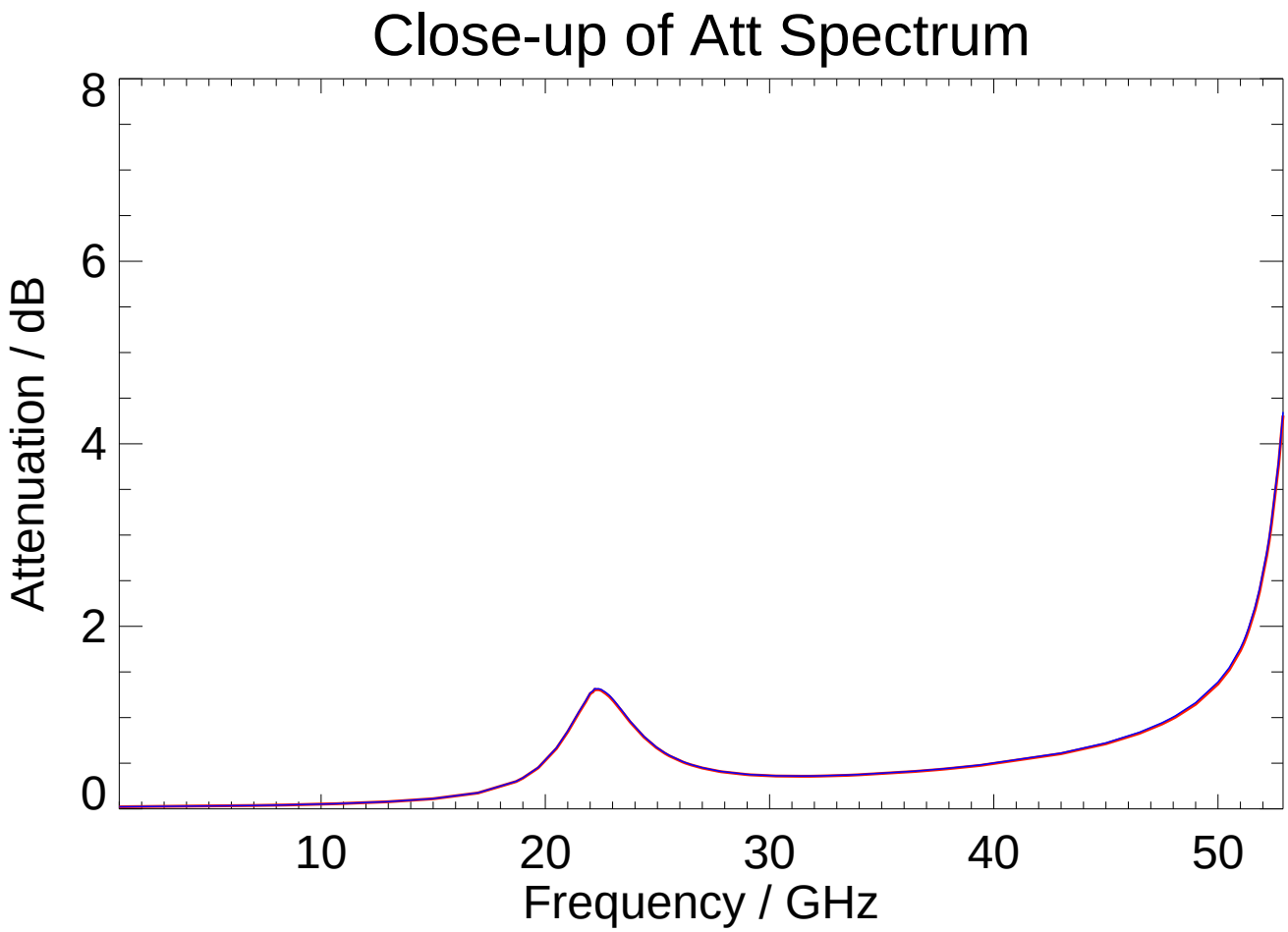
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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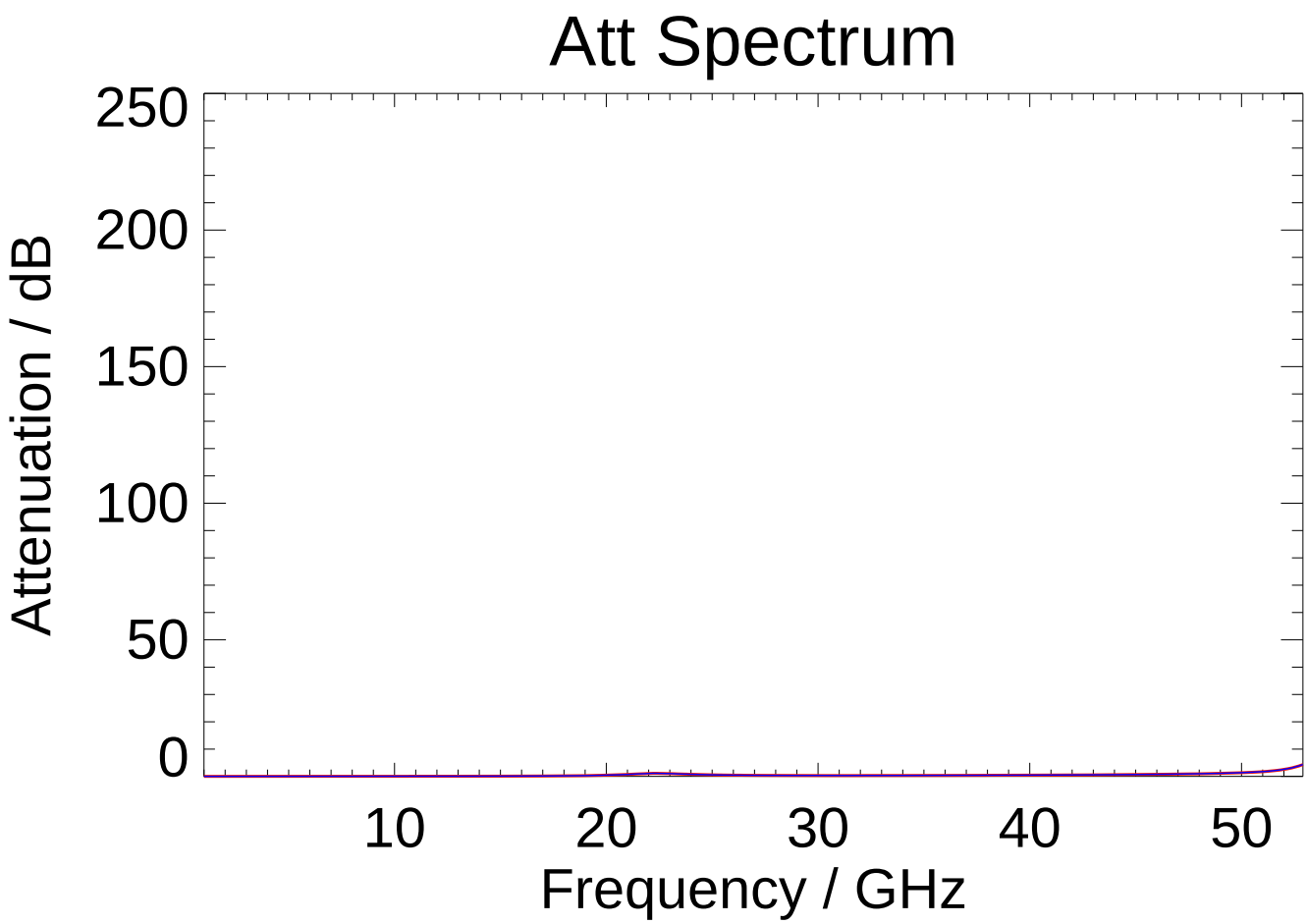
Frequency / GHz


Att Spectrum
Attenuation / dB
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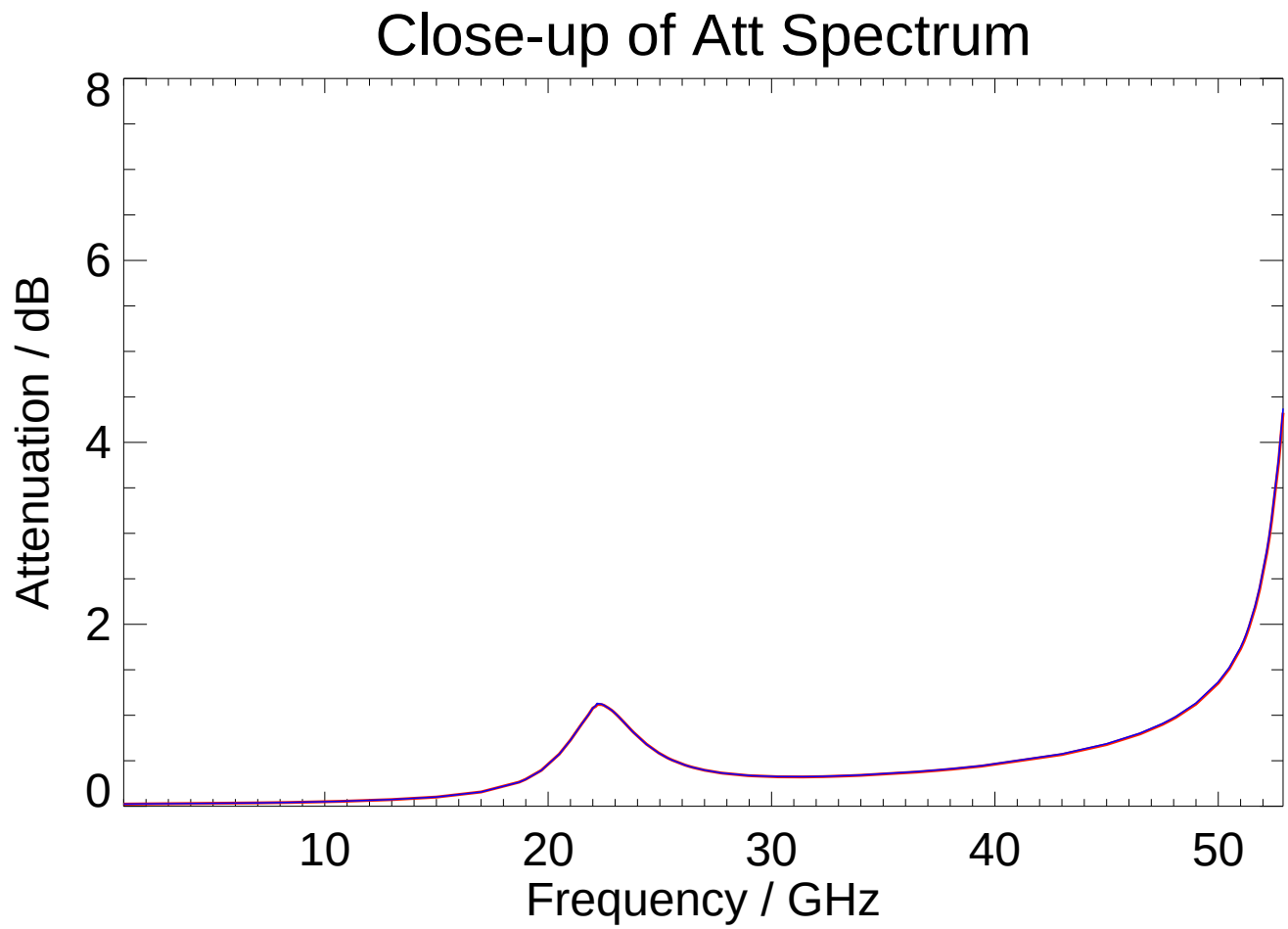
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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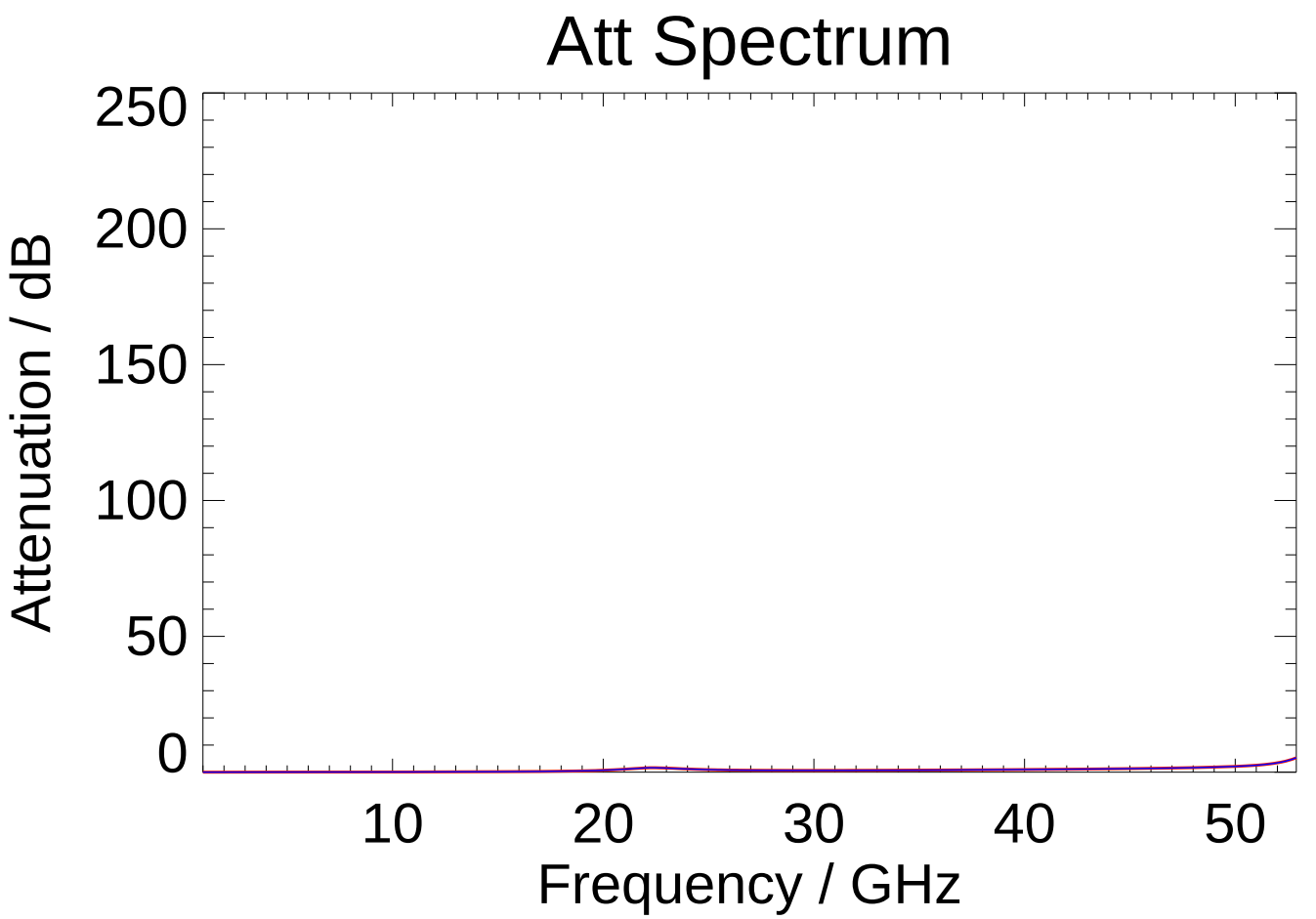
Frequency / GHz


Att Spectrum
Attenuation / dB
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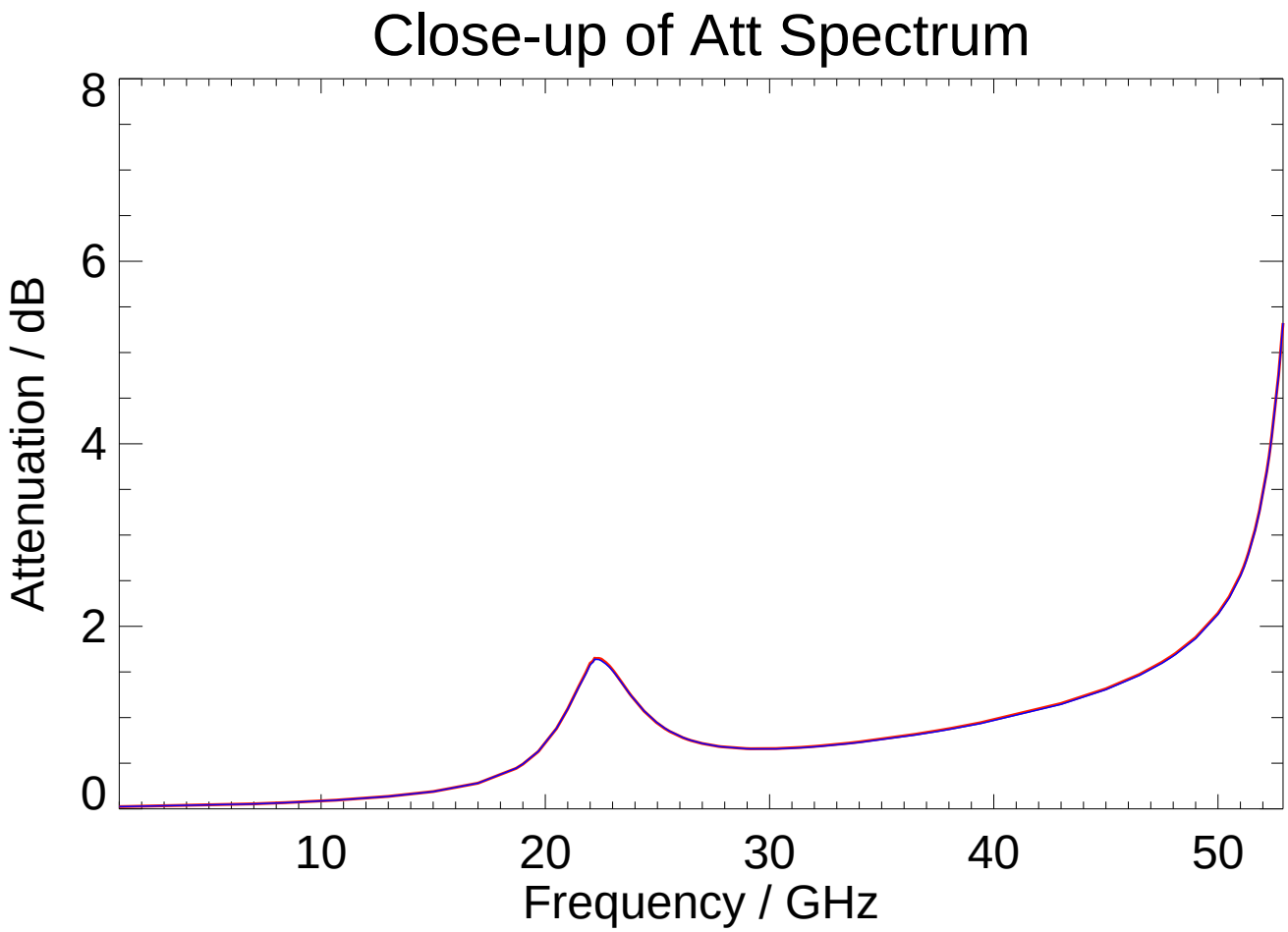
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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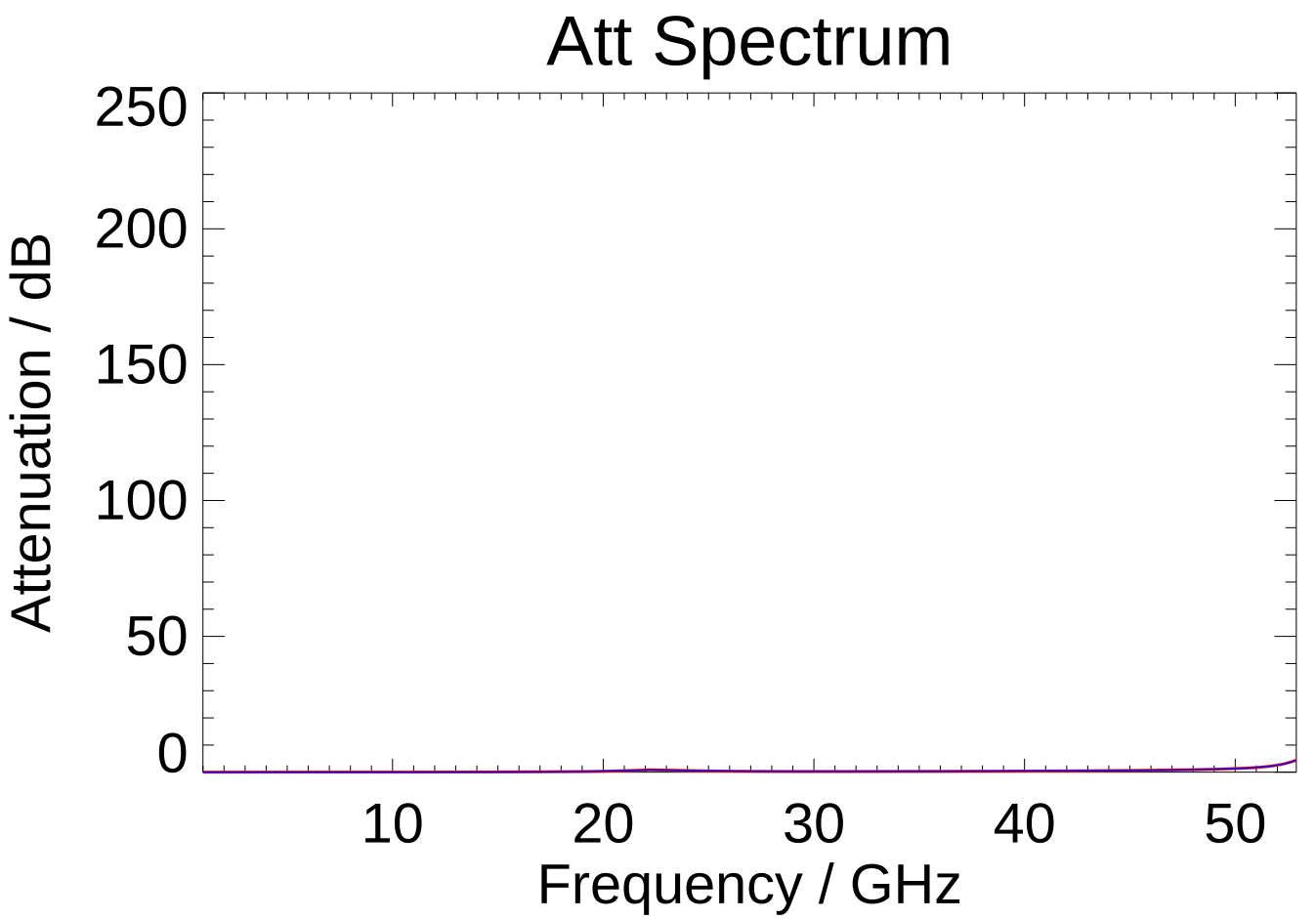
Frequency / GHz


Att Spectrum
Attenuation / dB
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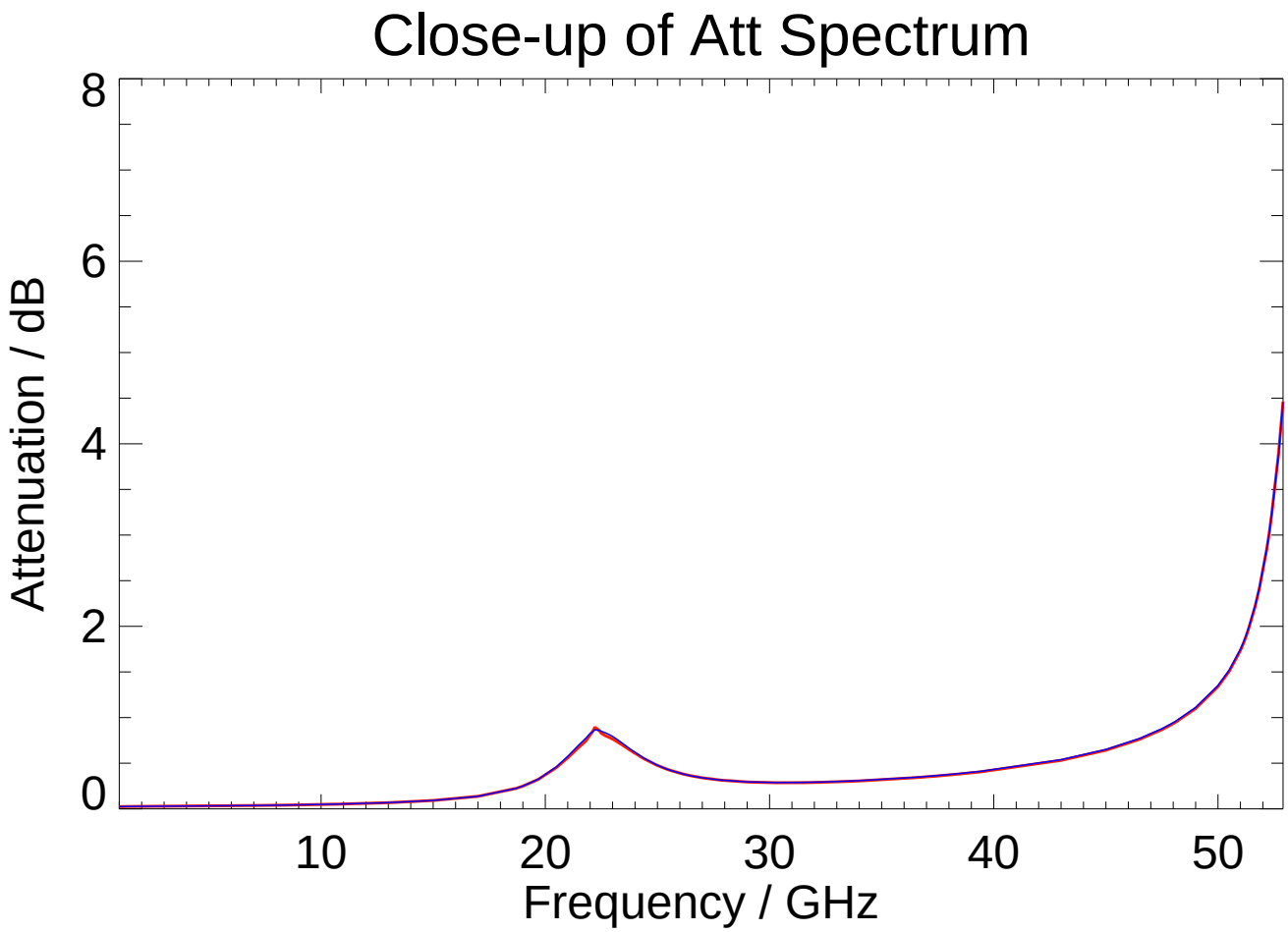
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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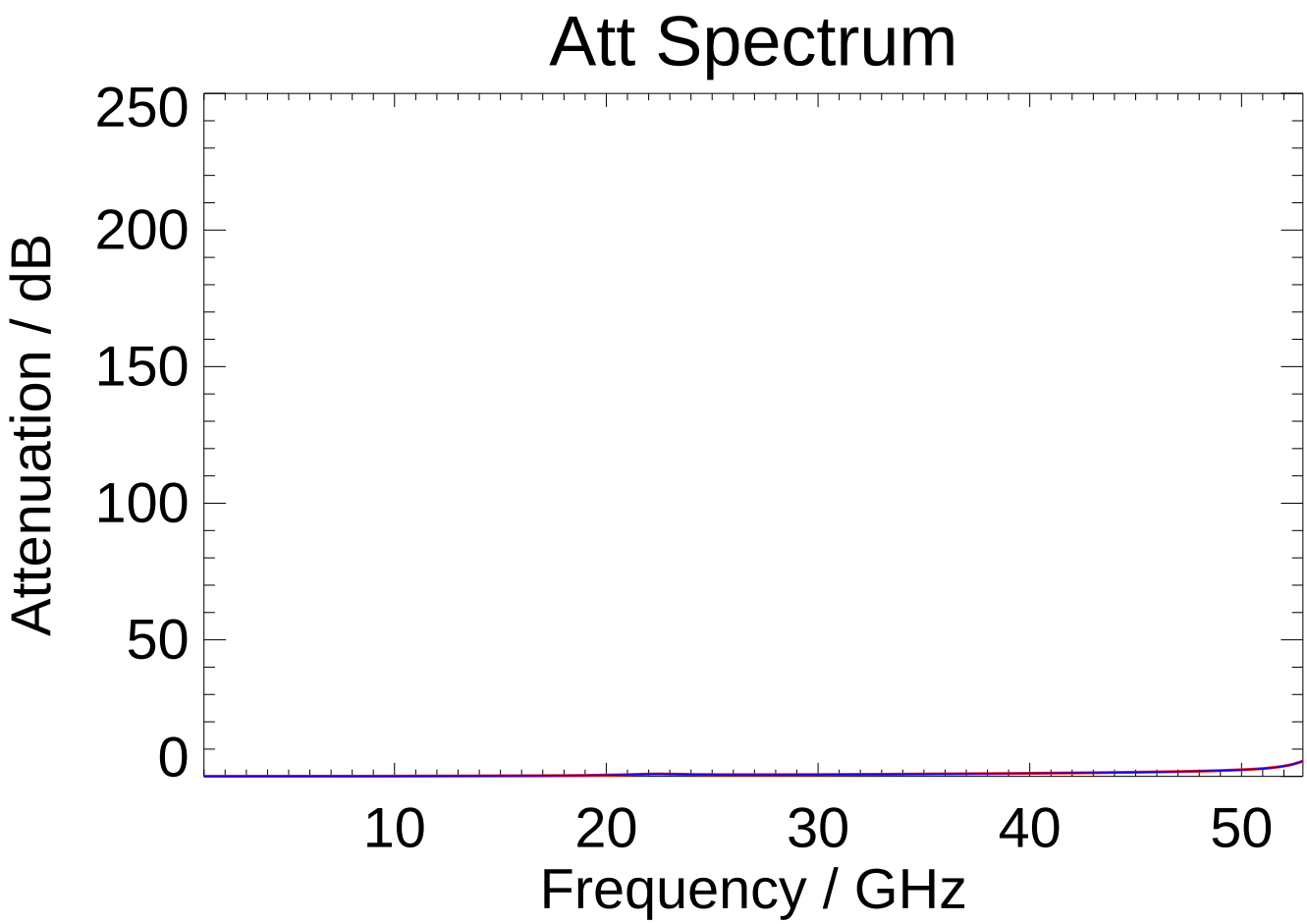
Frequency / GHz


Att Spectrum
Attenuation / dB
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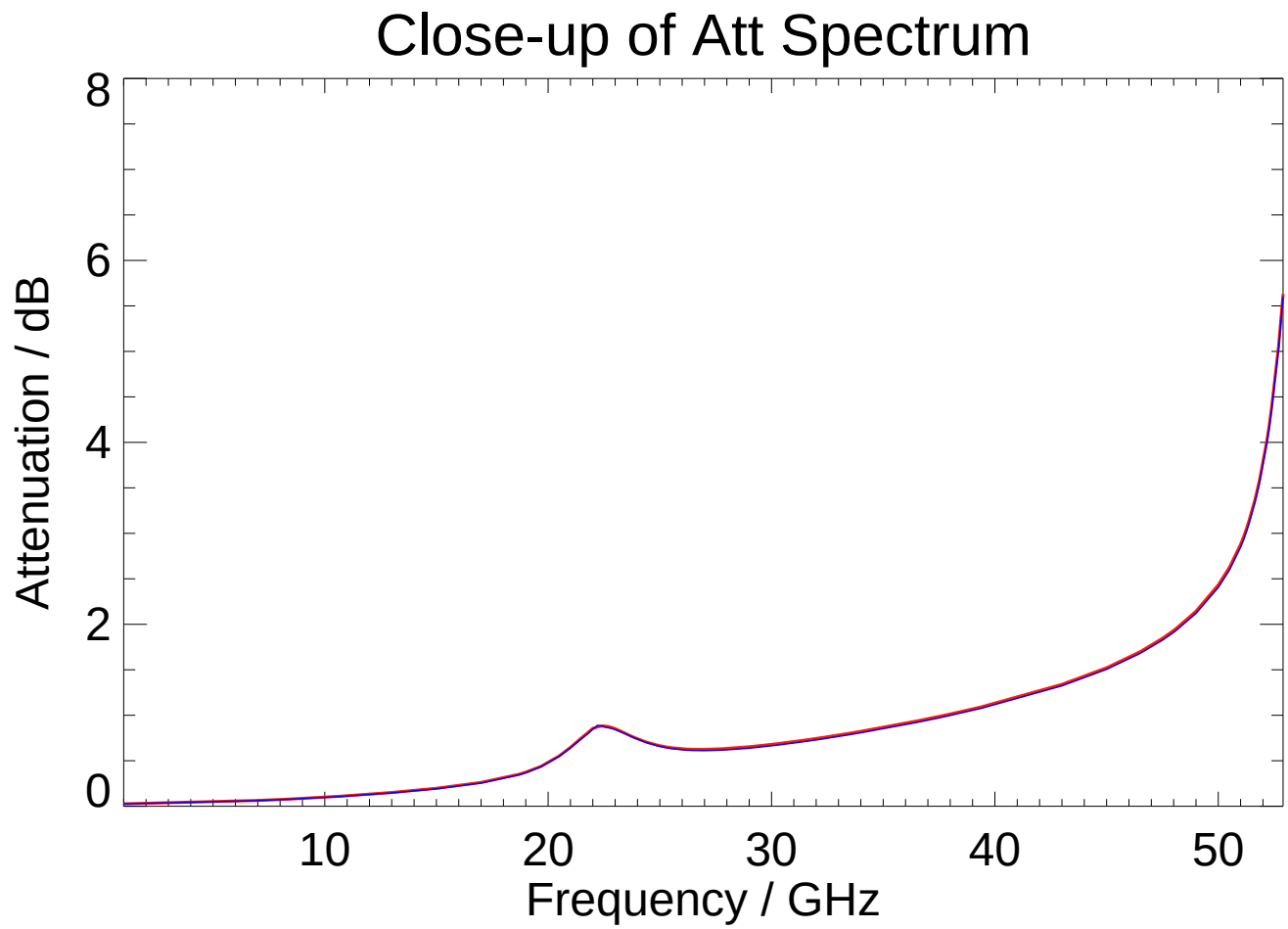
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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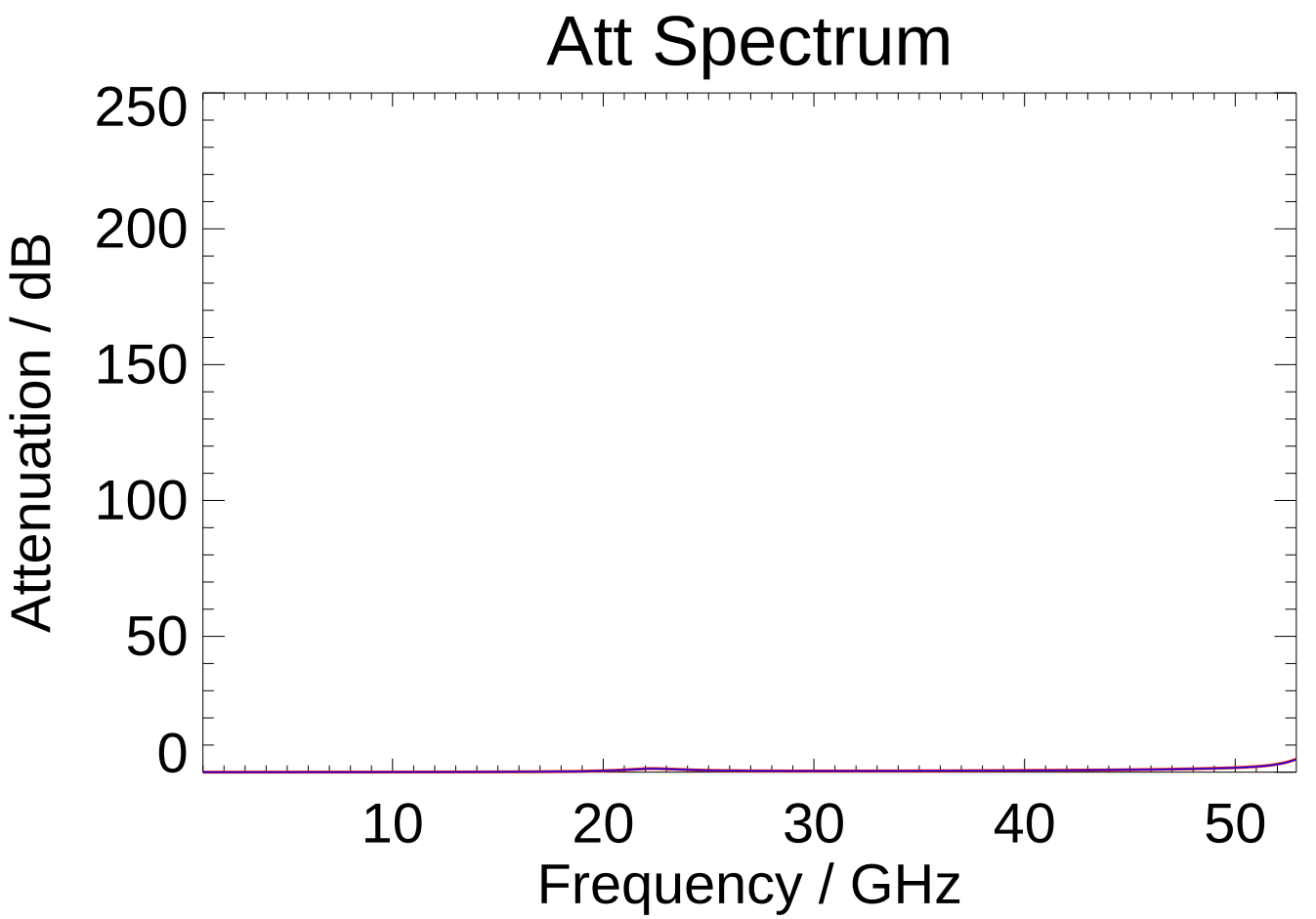
Frequency / GHz


Att Spectrum
Attenuation / dB
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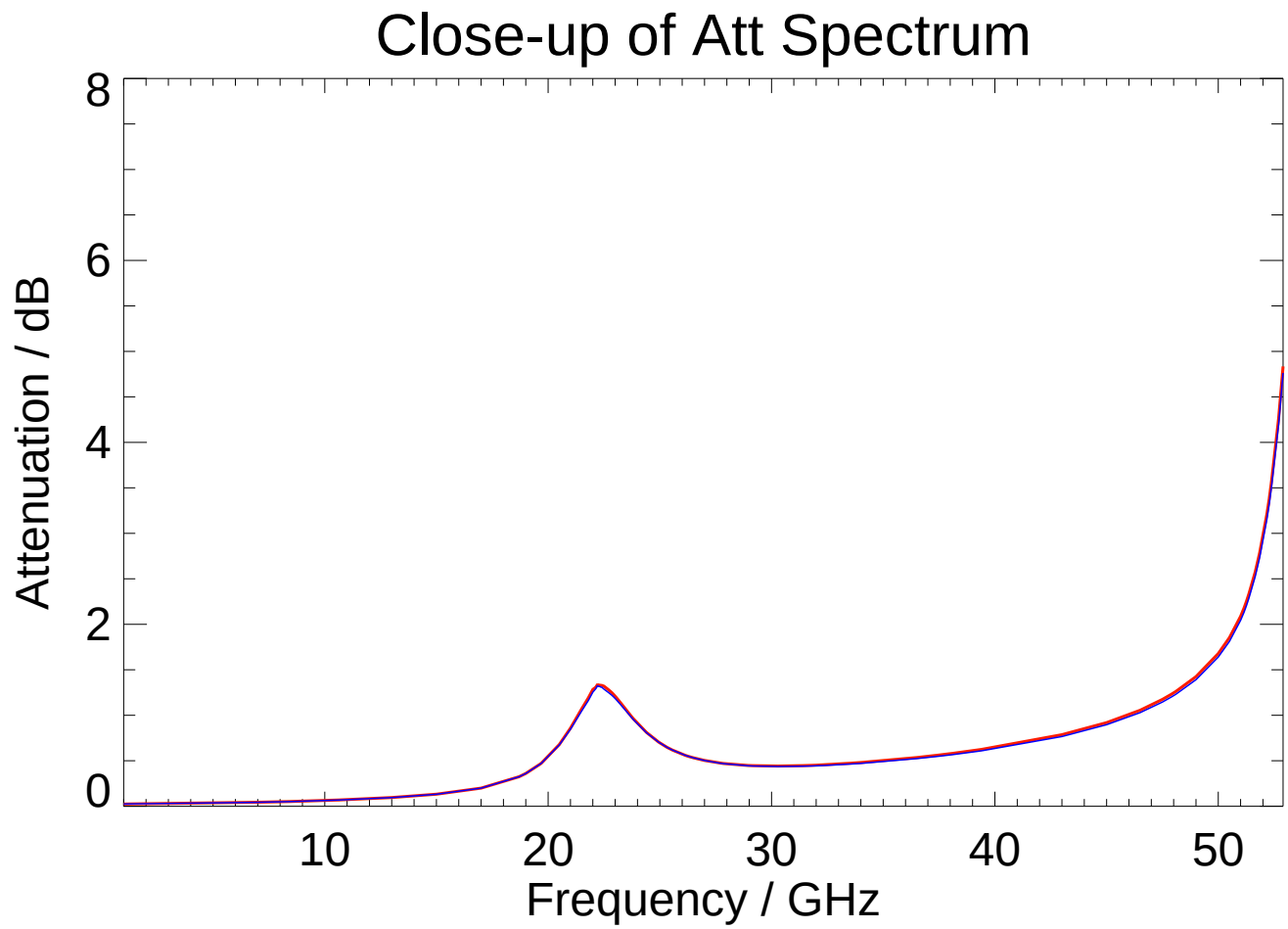
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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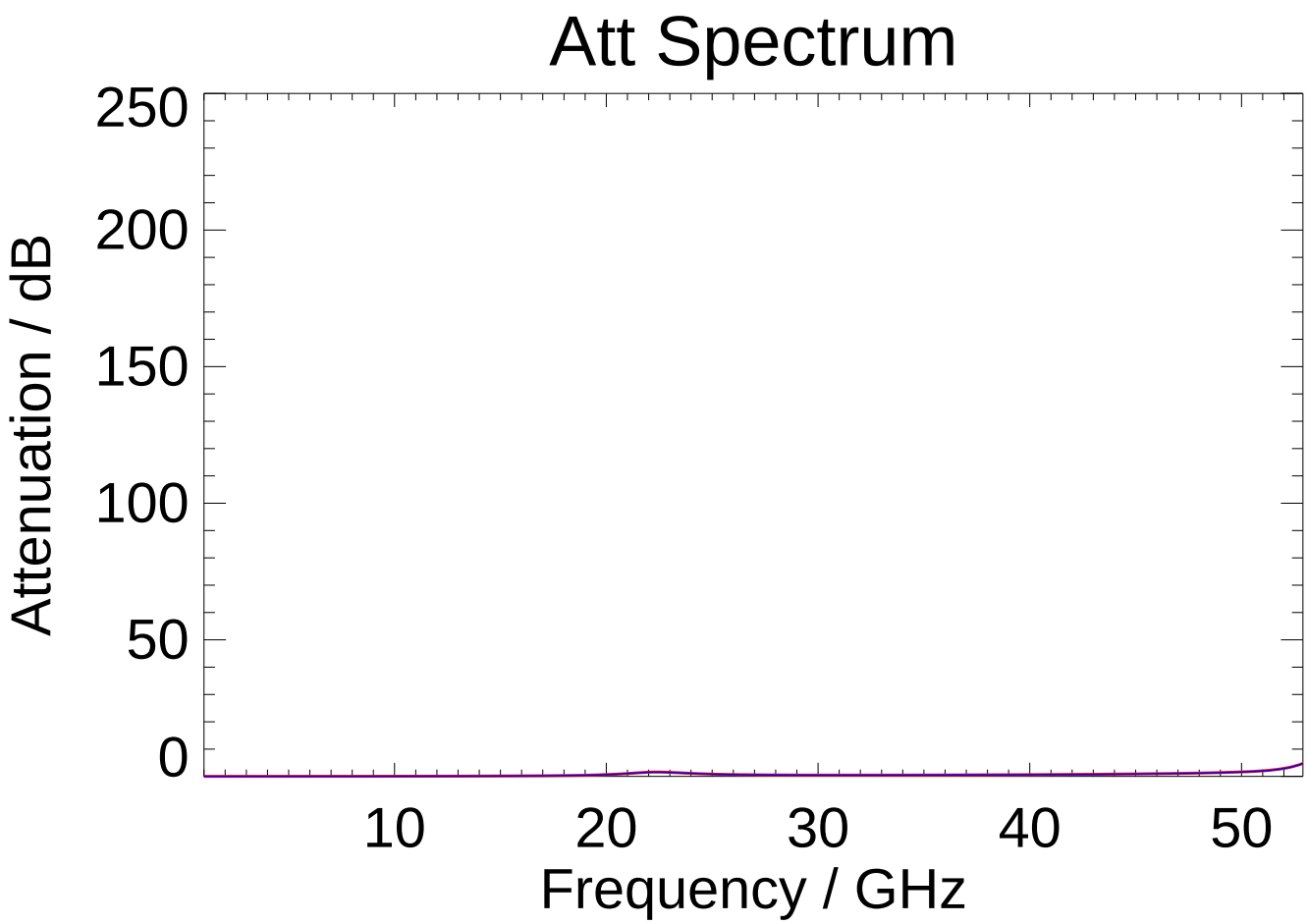
Frequency / GHz


Att Spectrum
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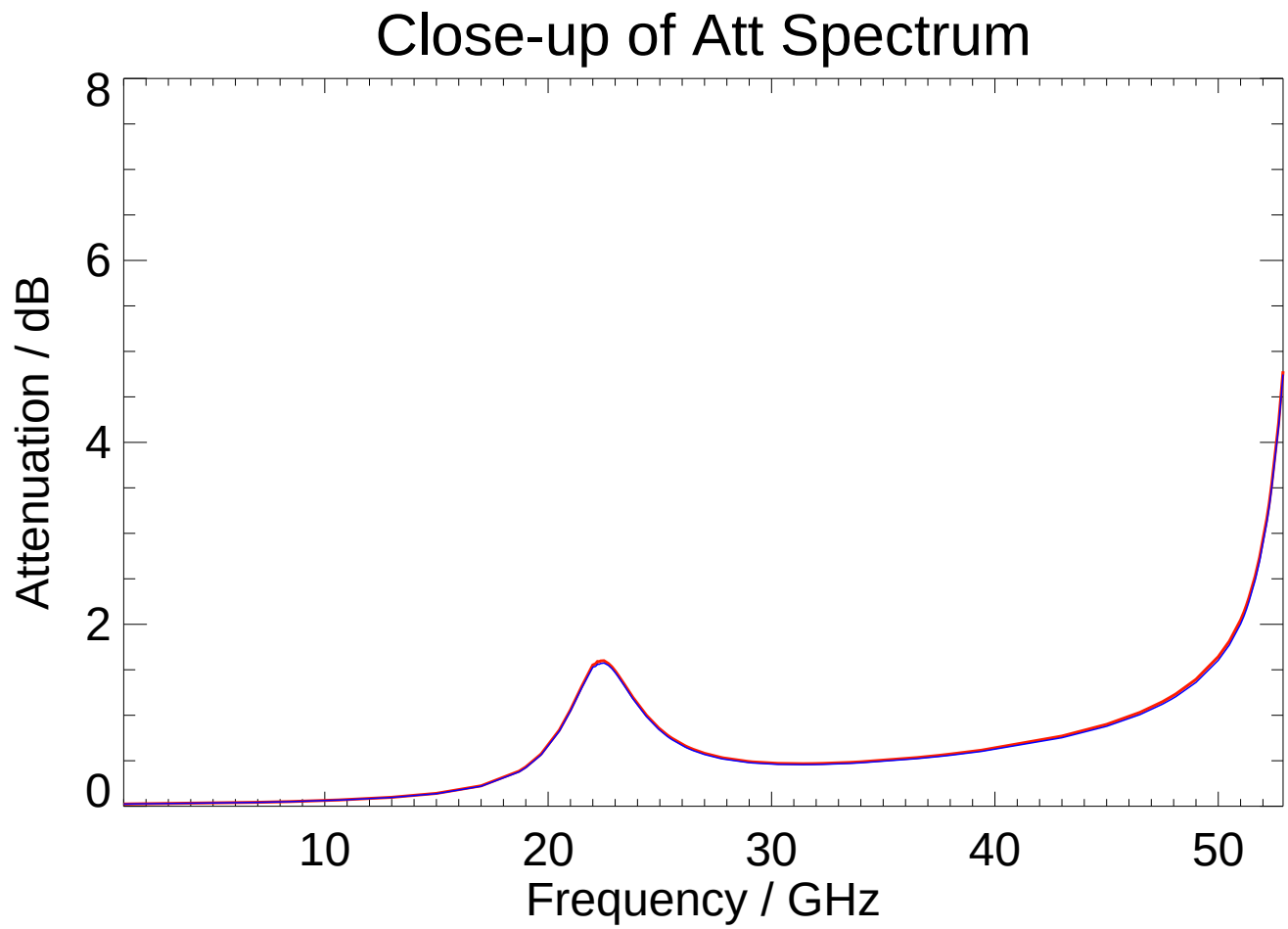
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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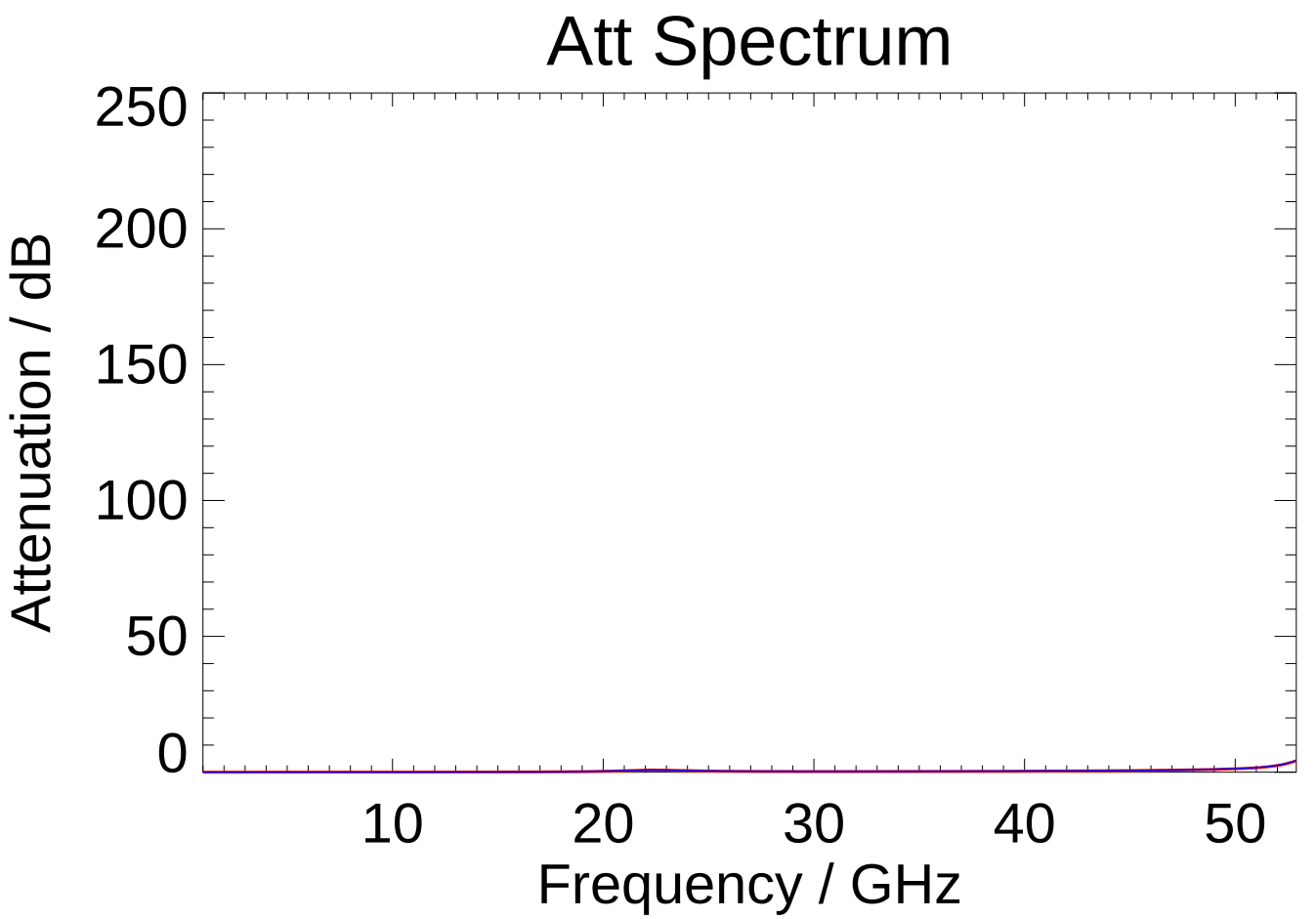
Frequency / GHz


Att Spectrum
Attenuation / dB
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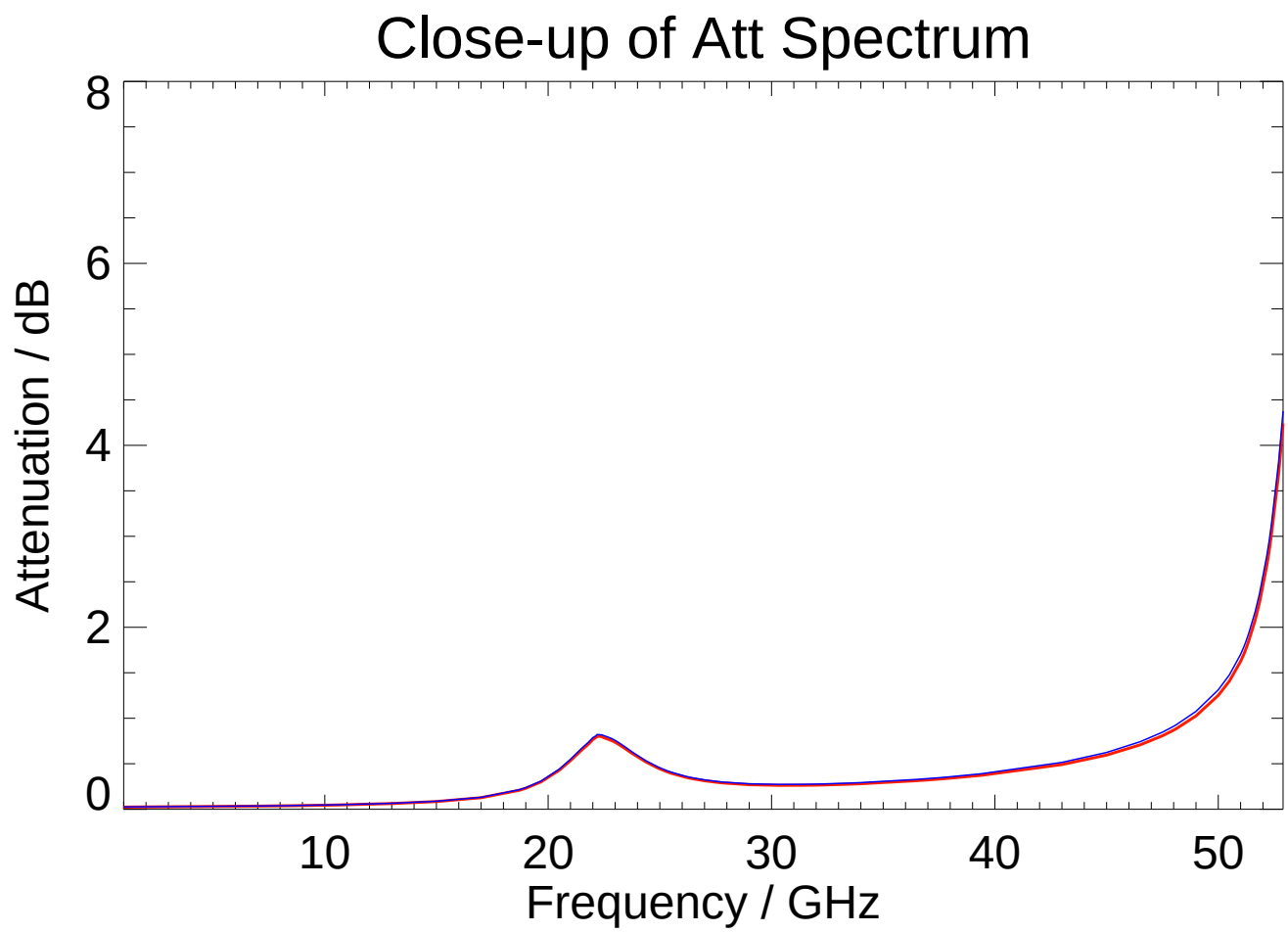
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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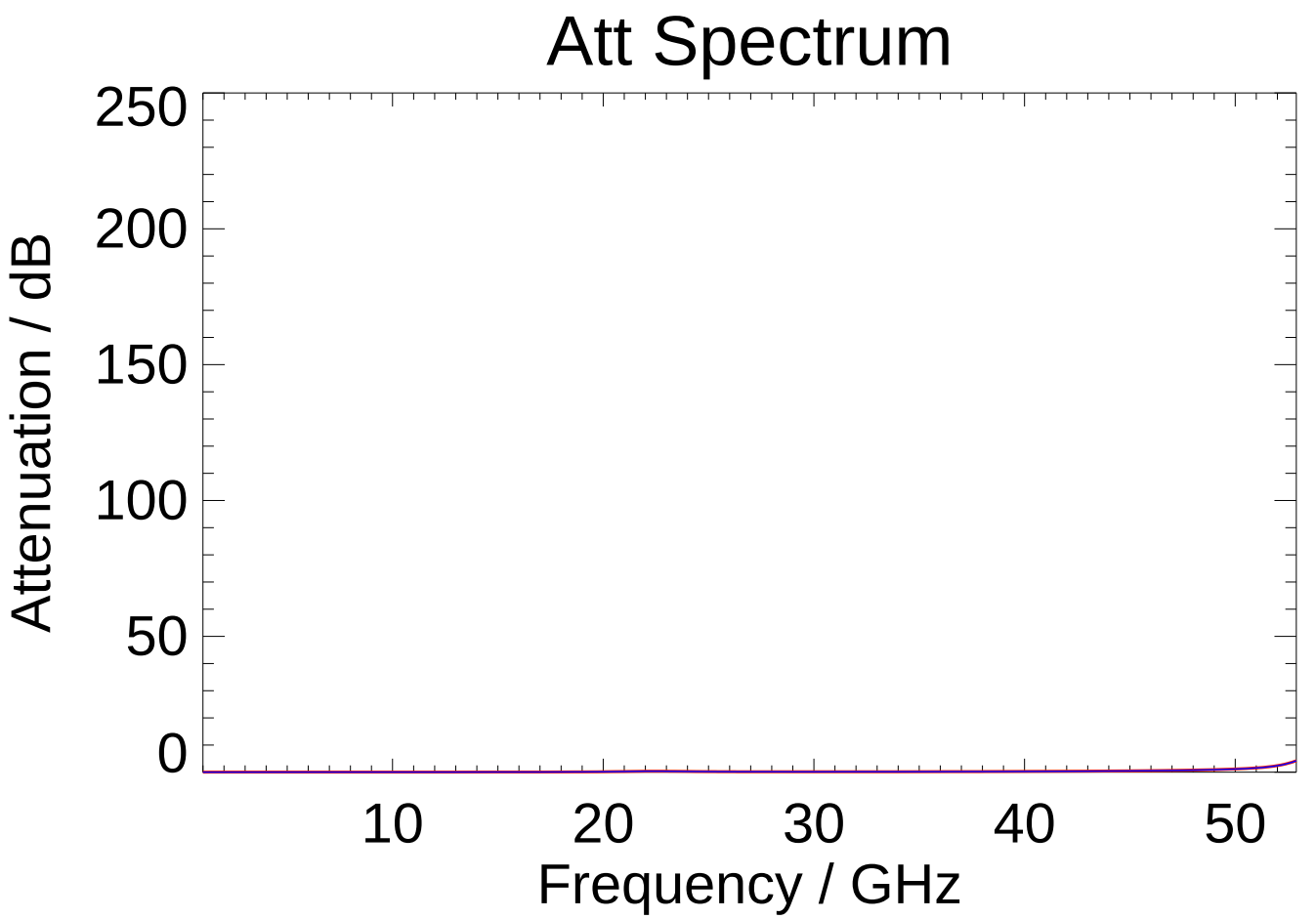
Frequency / GHz


Att Spectrum
Attenuation / dB
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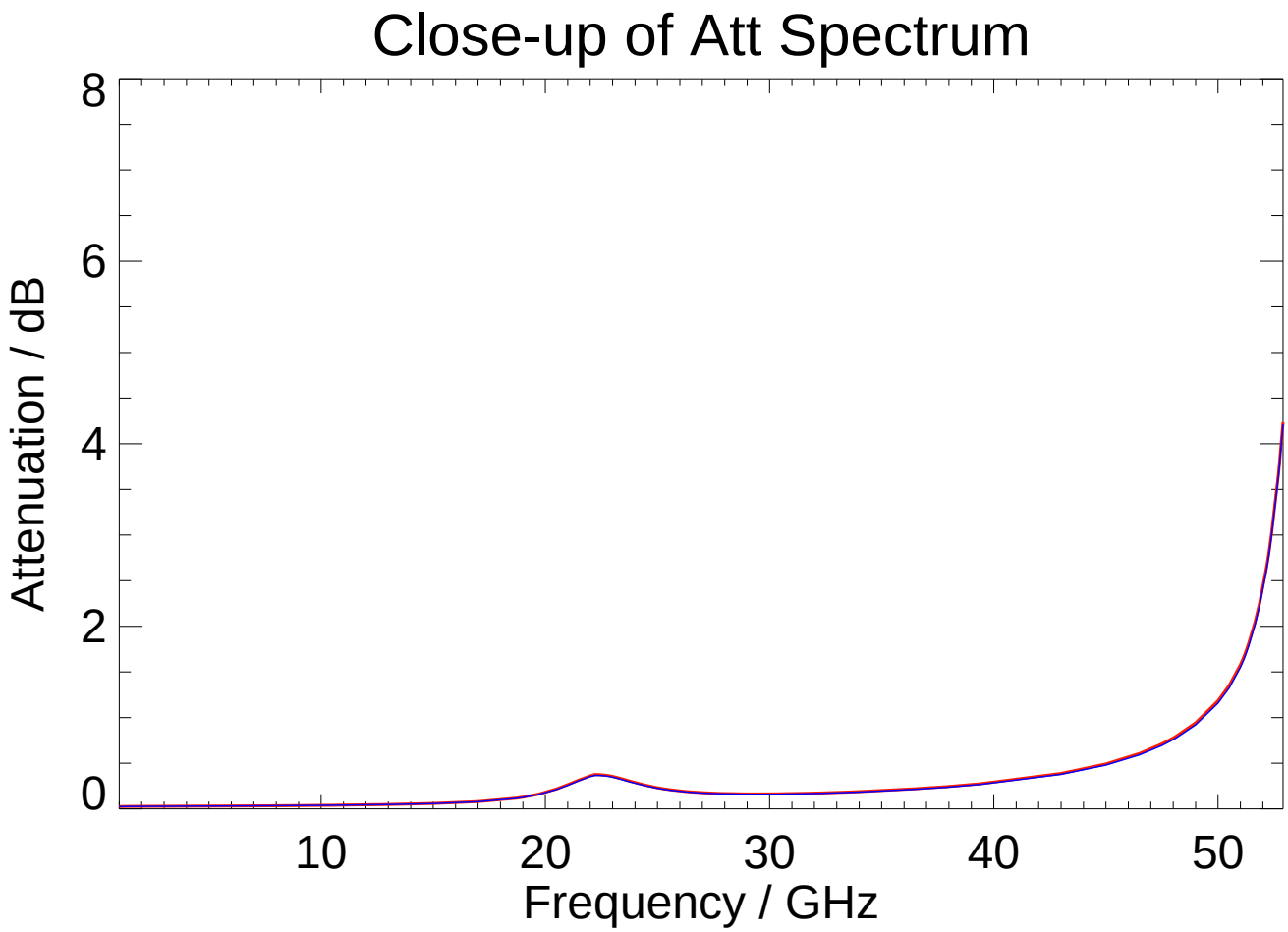
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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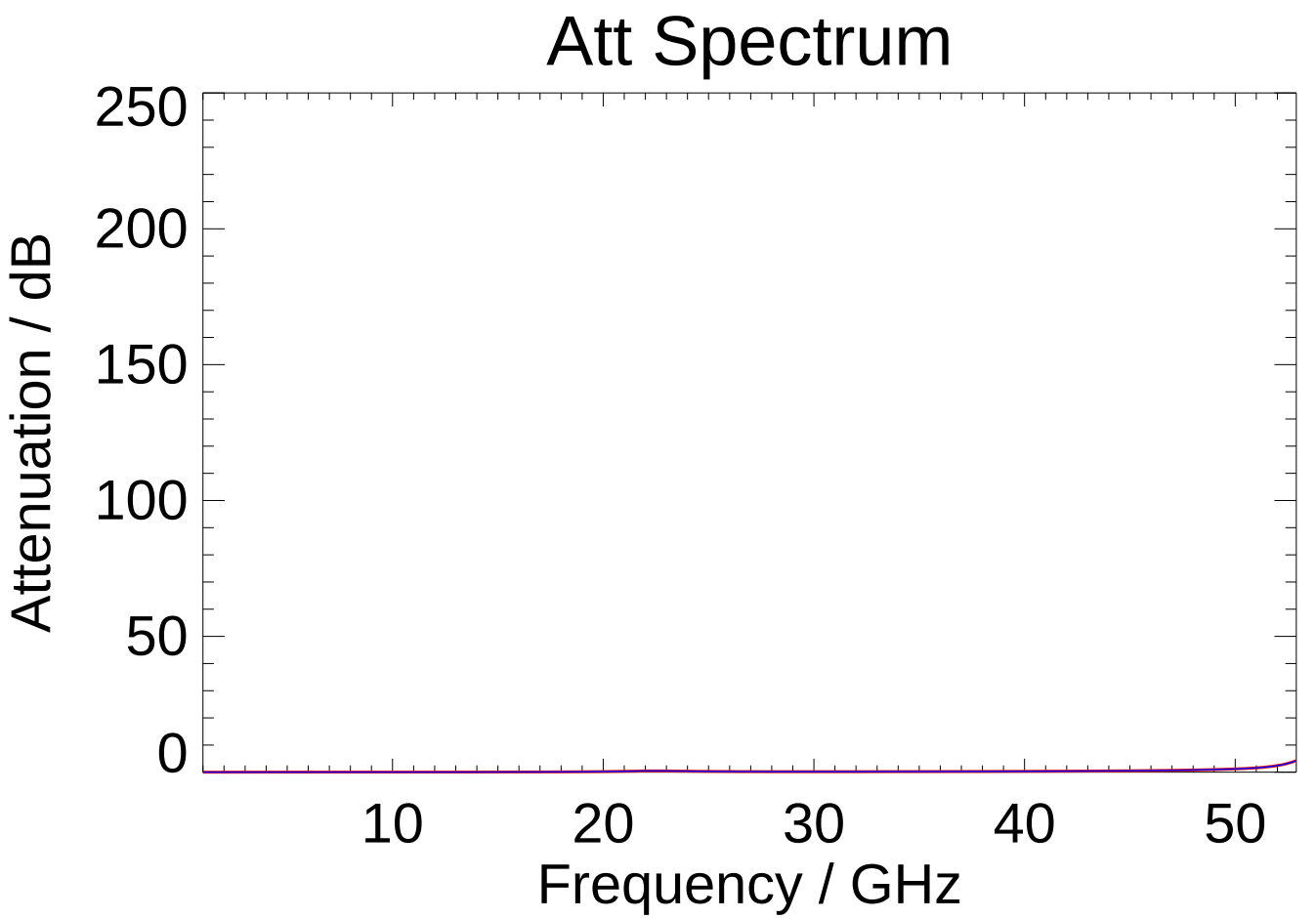
Frequency / GHz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Attenuation / dB
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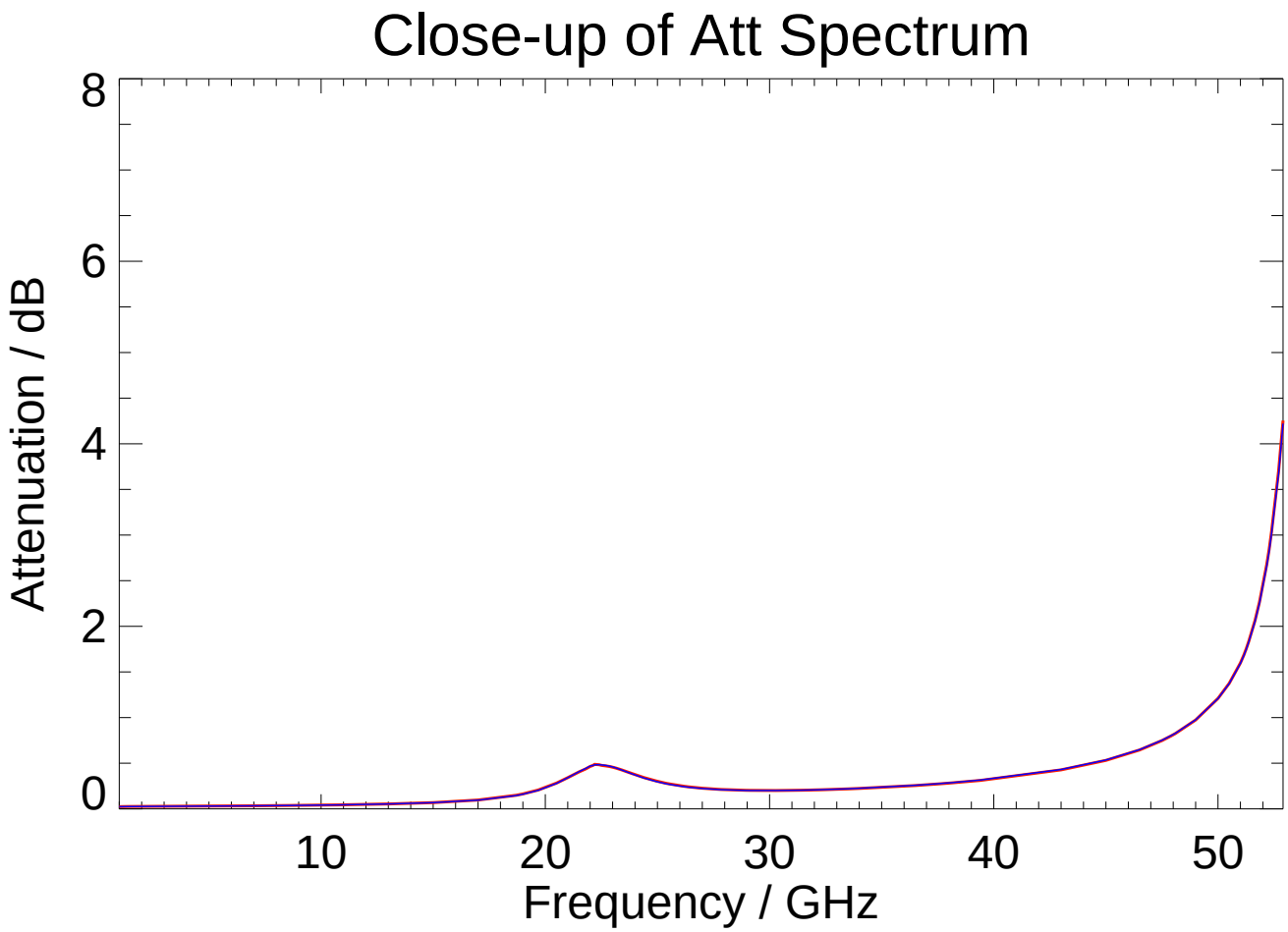
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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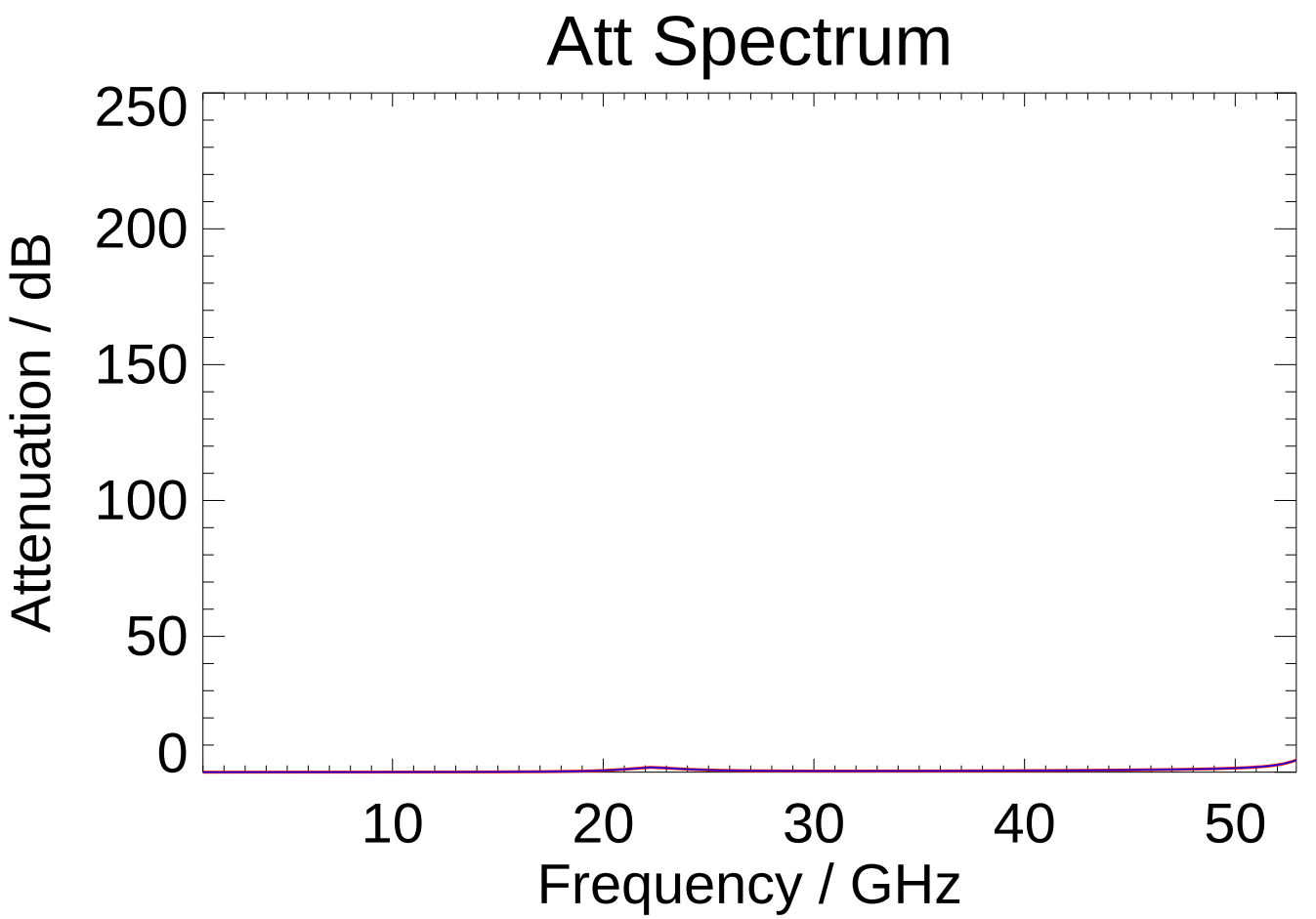
Frequency / GHz


Att Spectrum
Attenuation / dB
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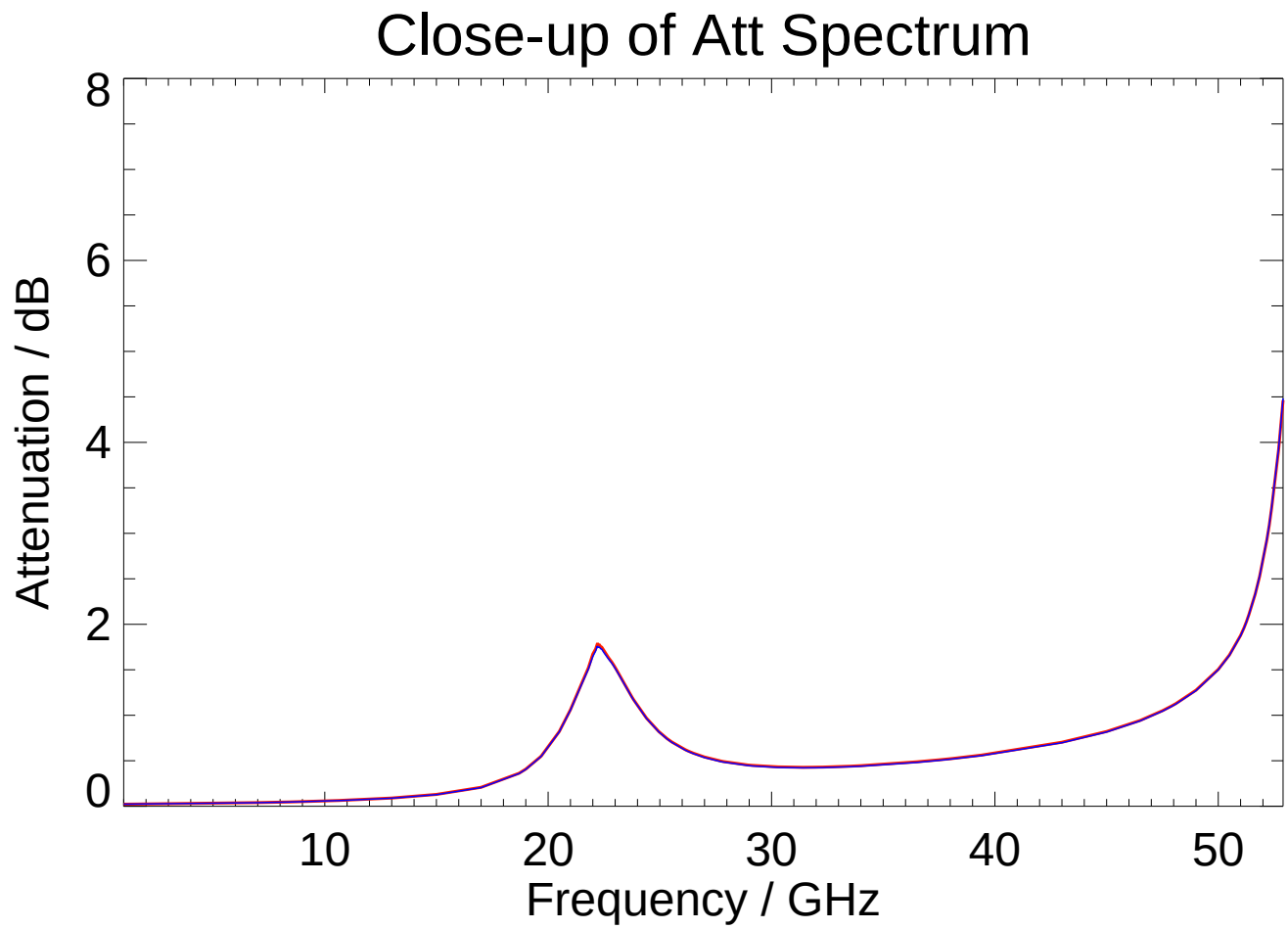
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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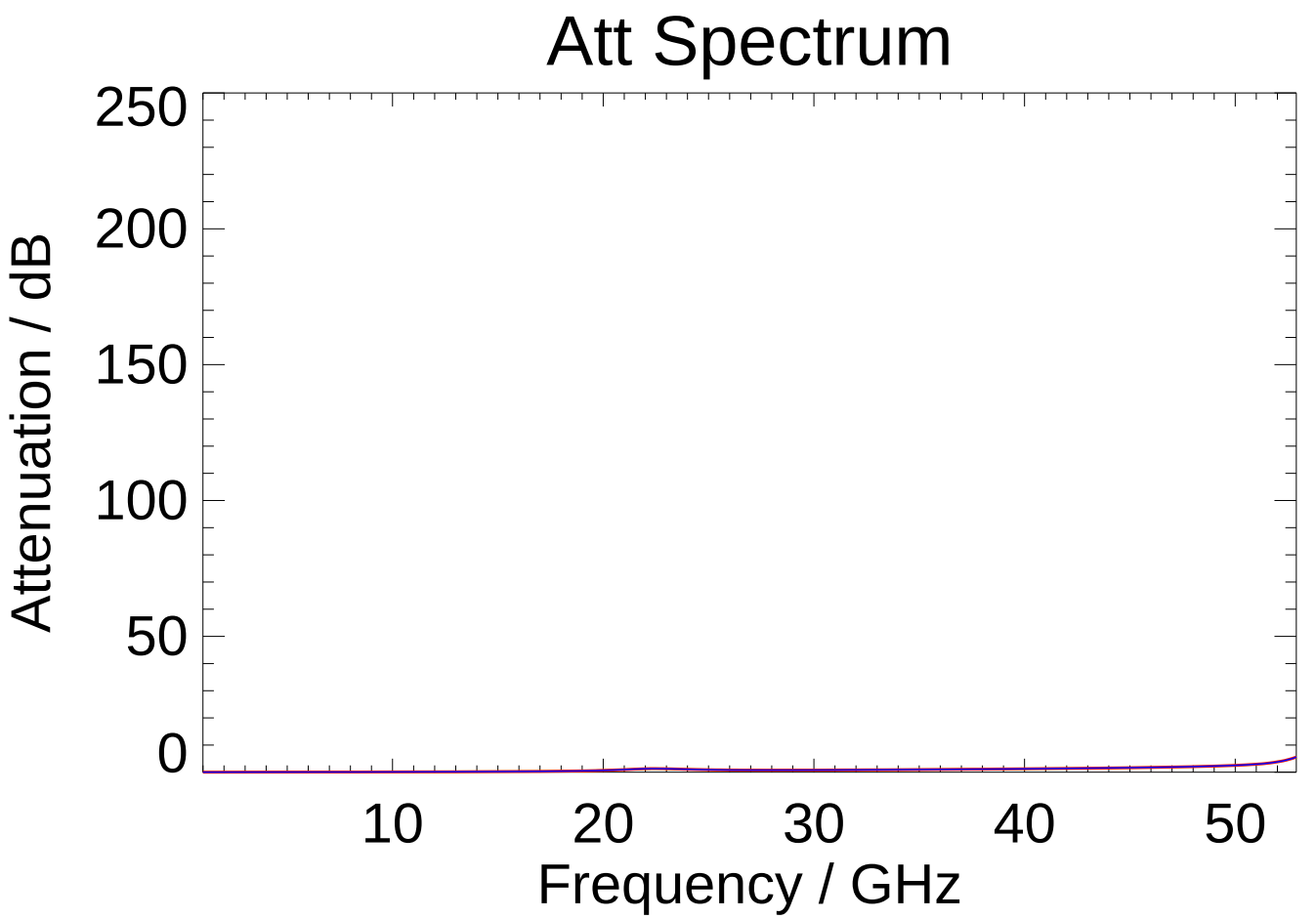
Frequency / GHz


Att Spectrum
Attenuation / dB
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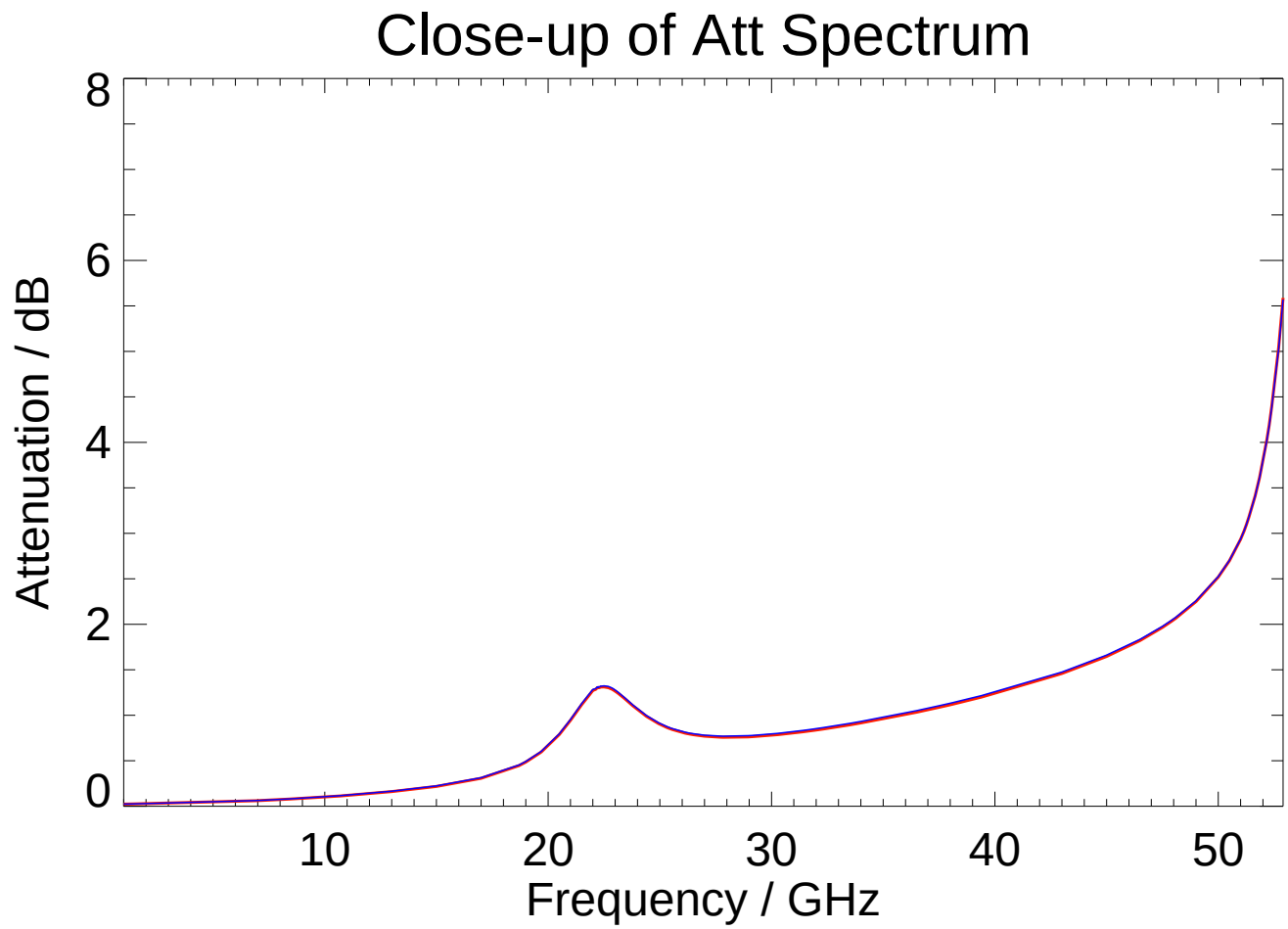
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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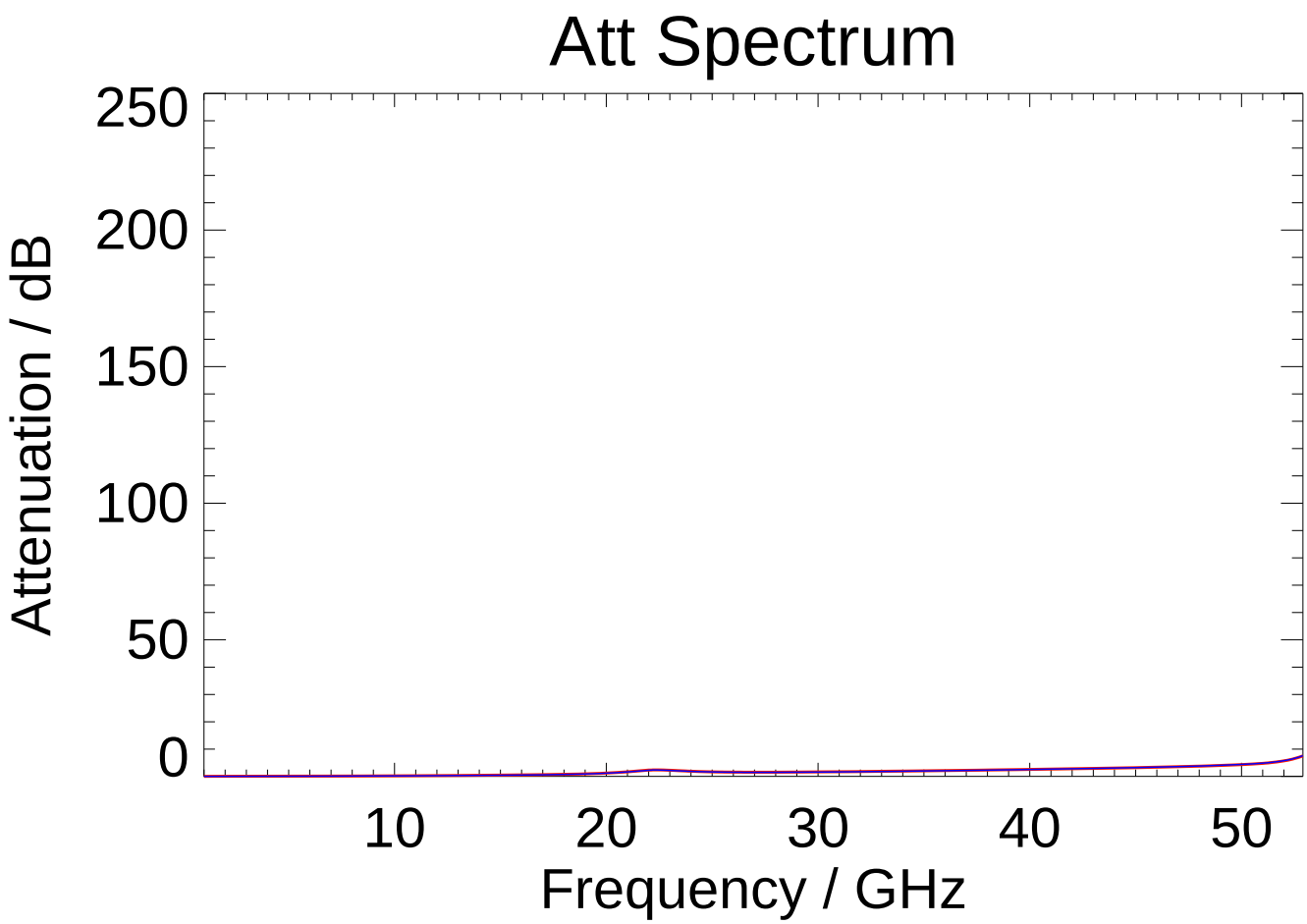
Frequency / GHz


Att Spectrum
Attenuation / dB
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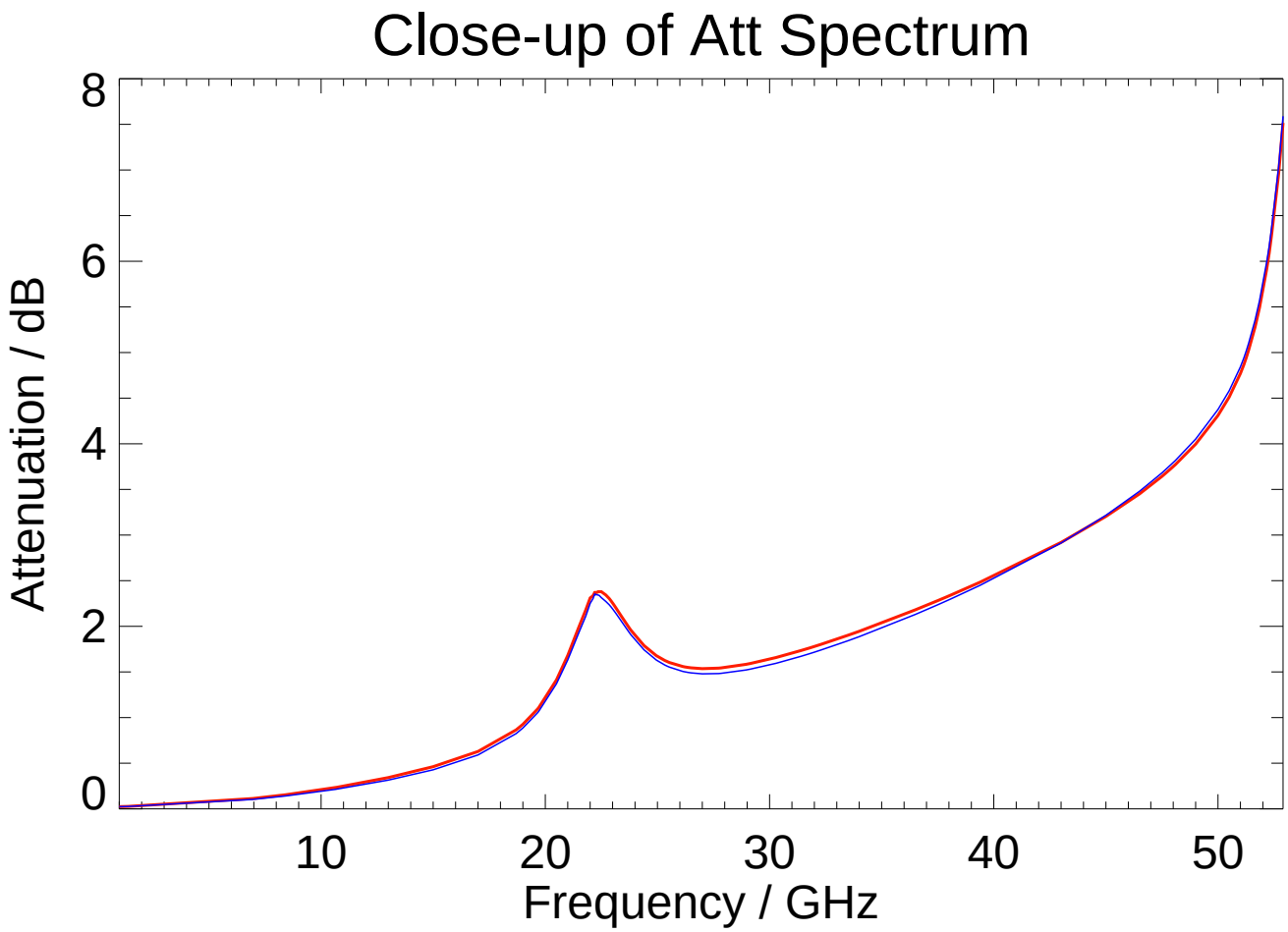
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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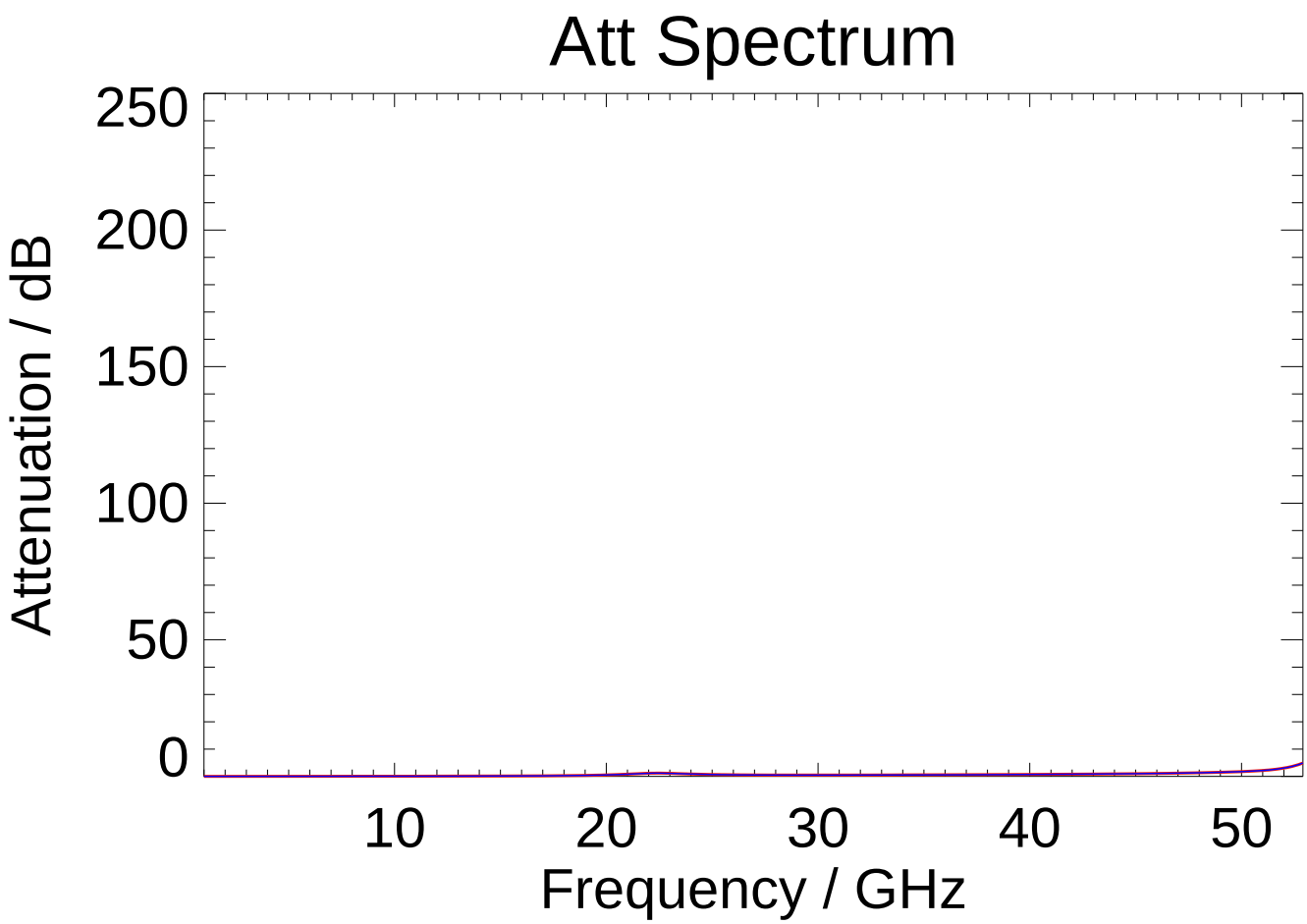
Frequency / GHz


Att Spectrum
Attenuation / dB
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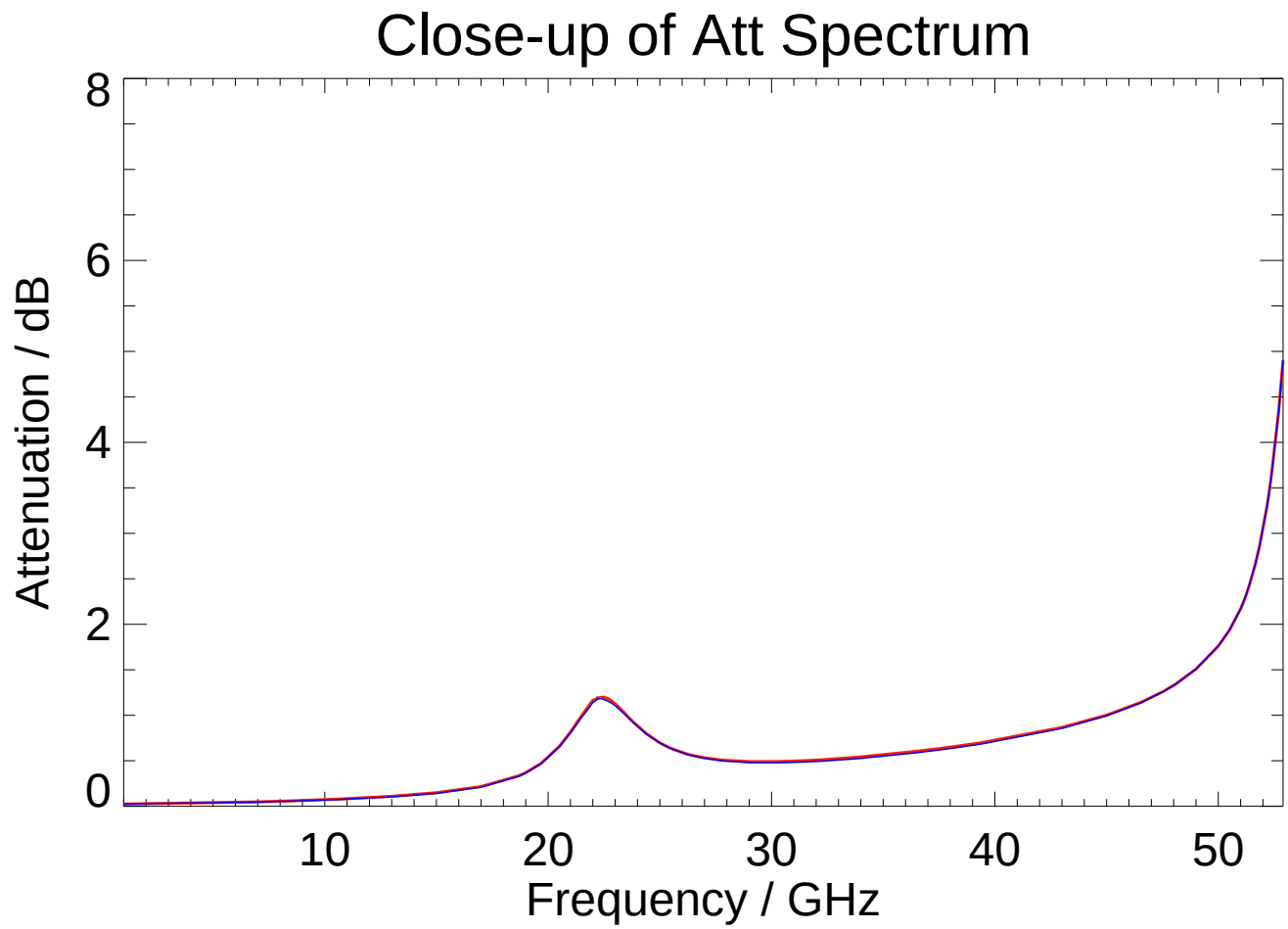
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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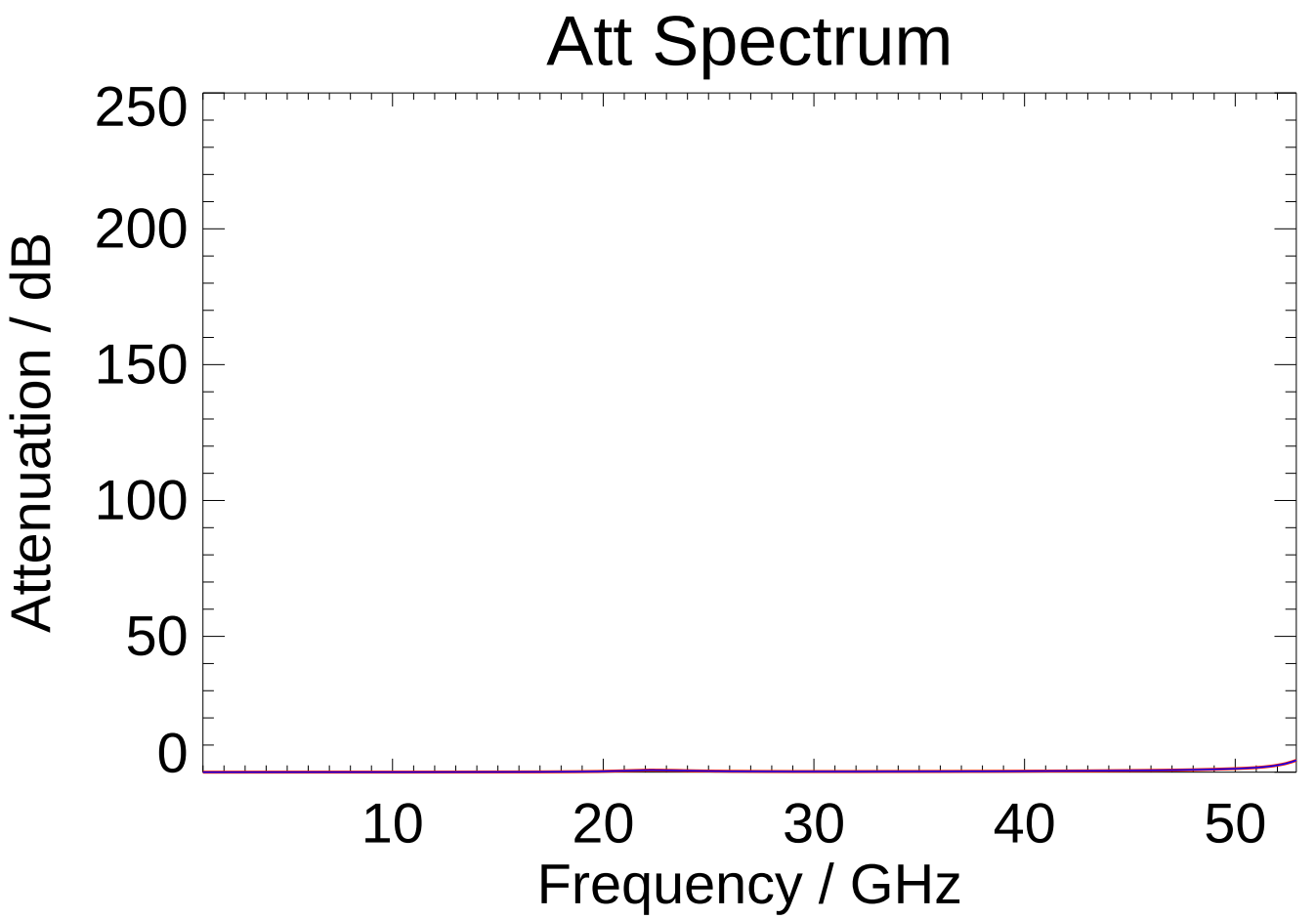
Frequency / GHz


Att Spectrum
Attenuation / dB
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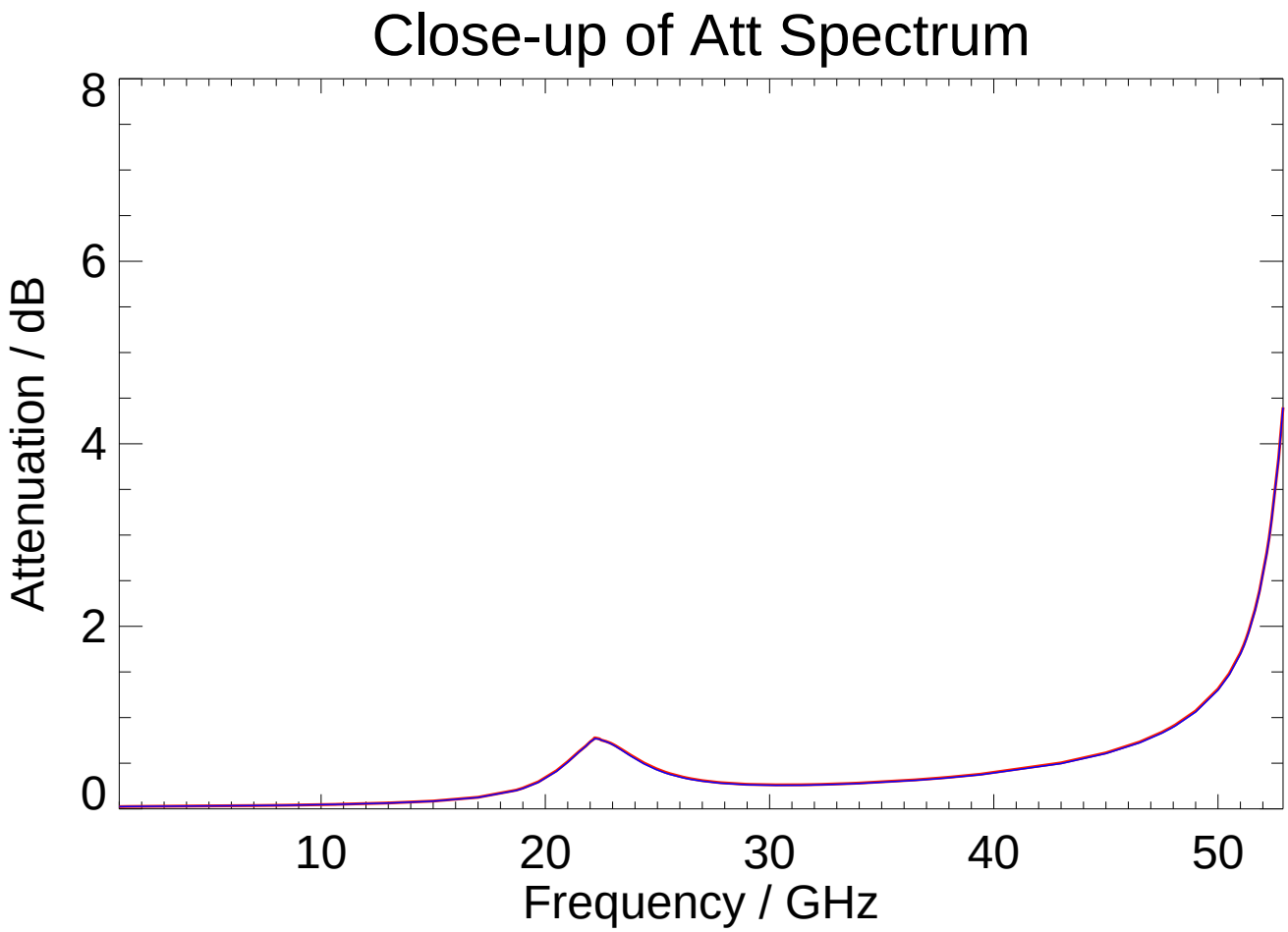
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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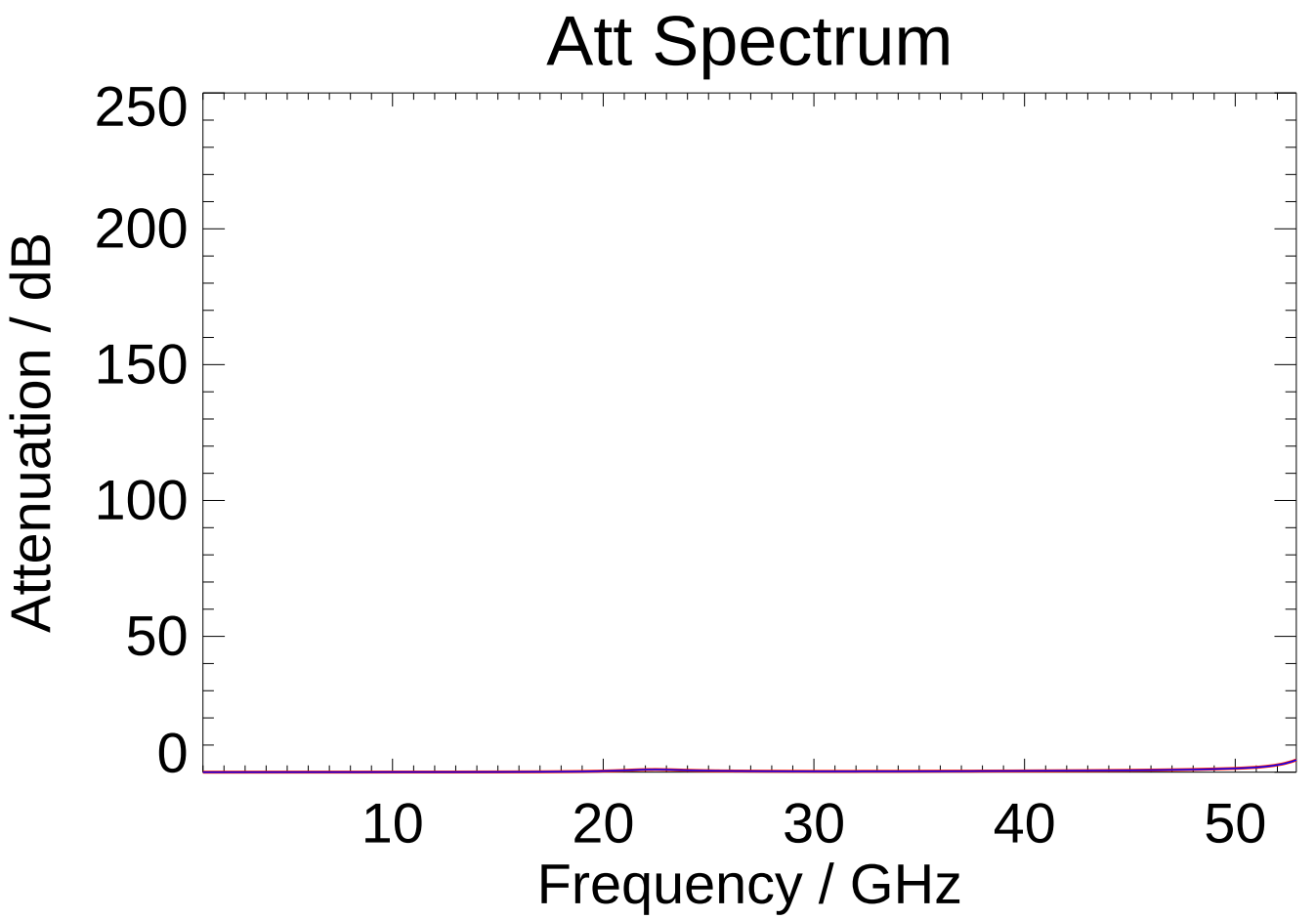
Frequency / GHz


Att Spectrum
Attenuation / dB
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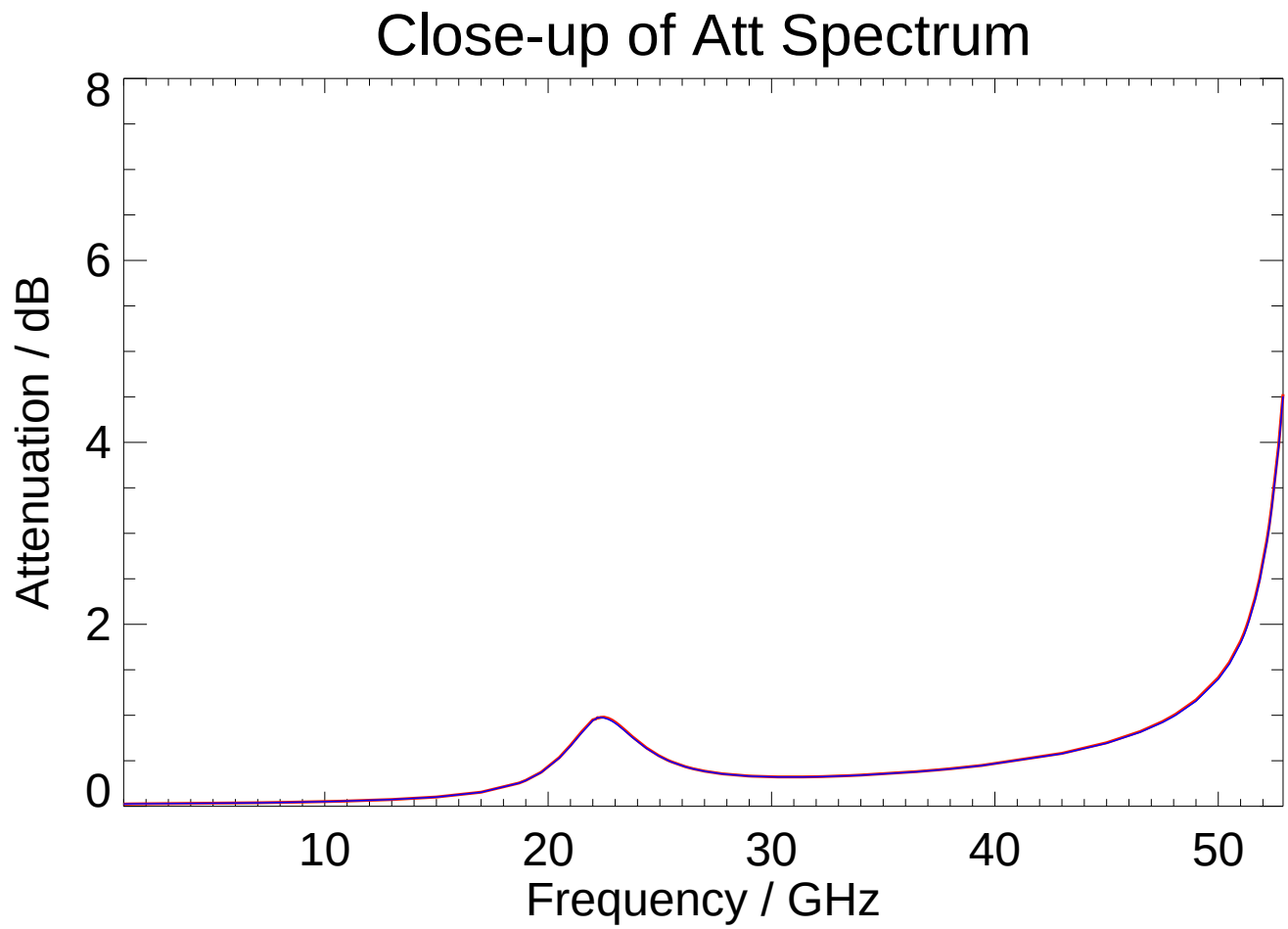
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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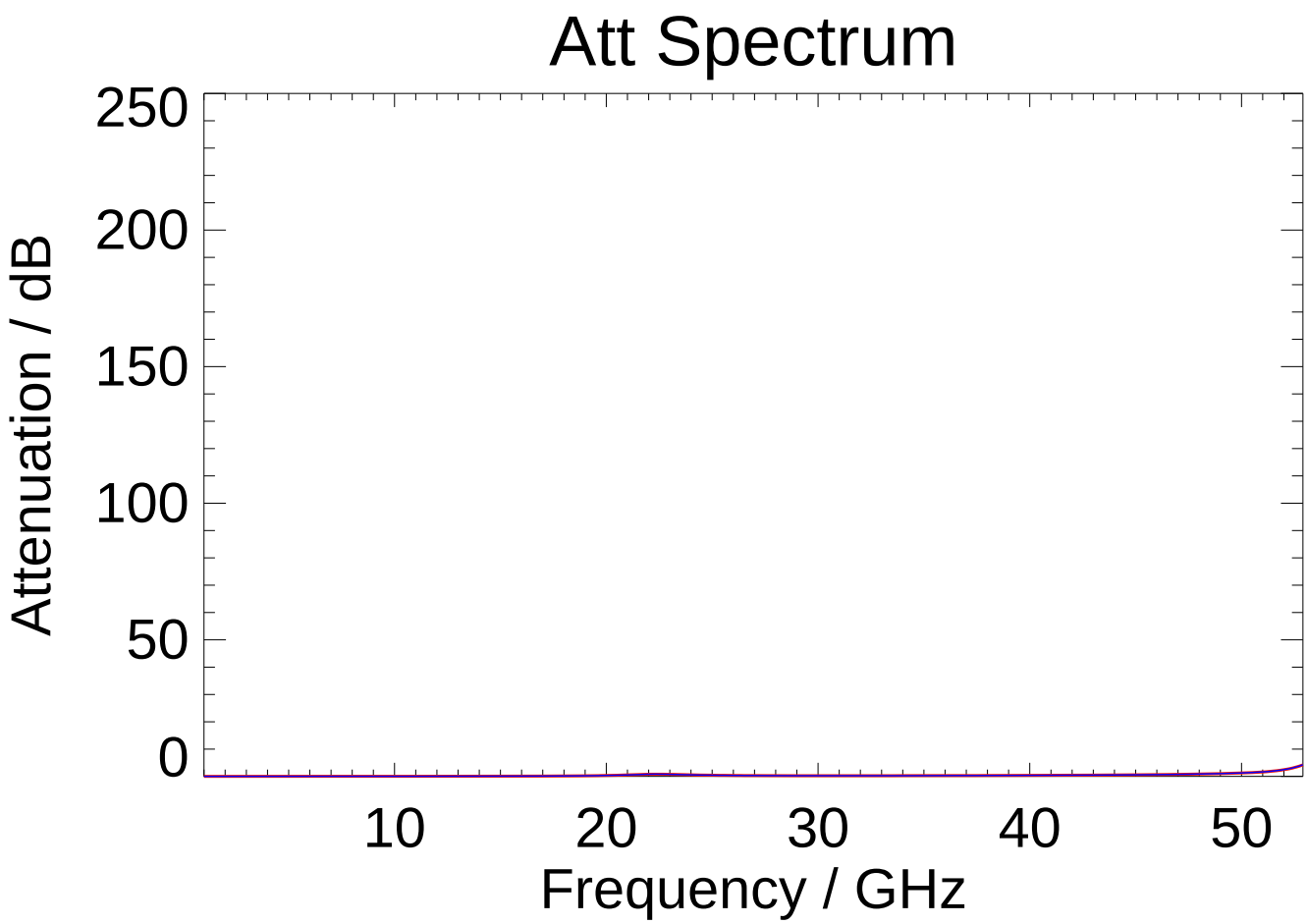
Frequency / GHz


Att Spectrum
Attenuation / dB
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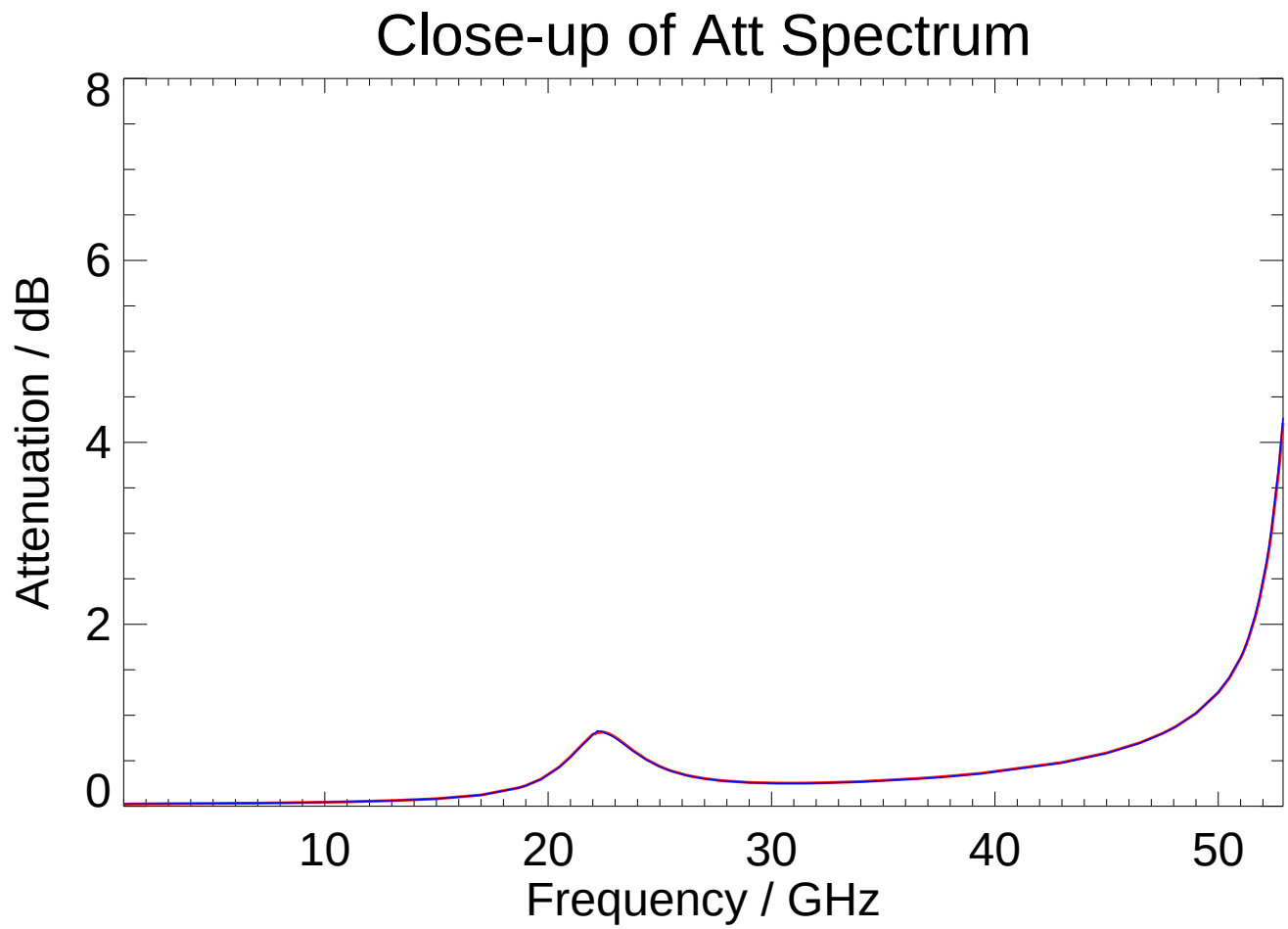
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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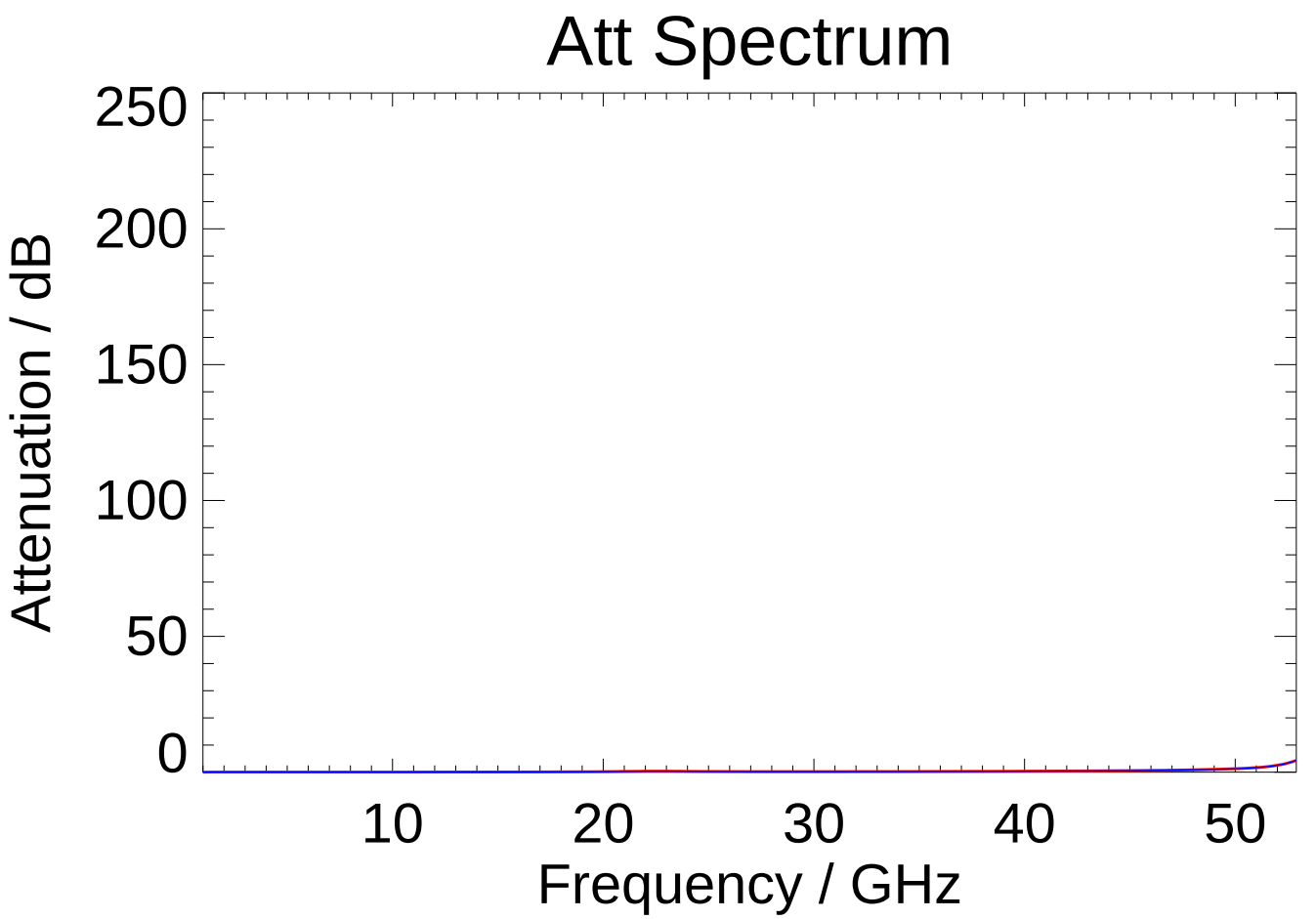
Frequency / GHz


Att Spectrum
Attenuation / dB
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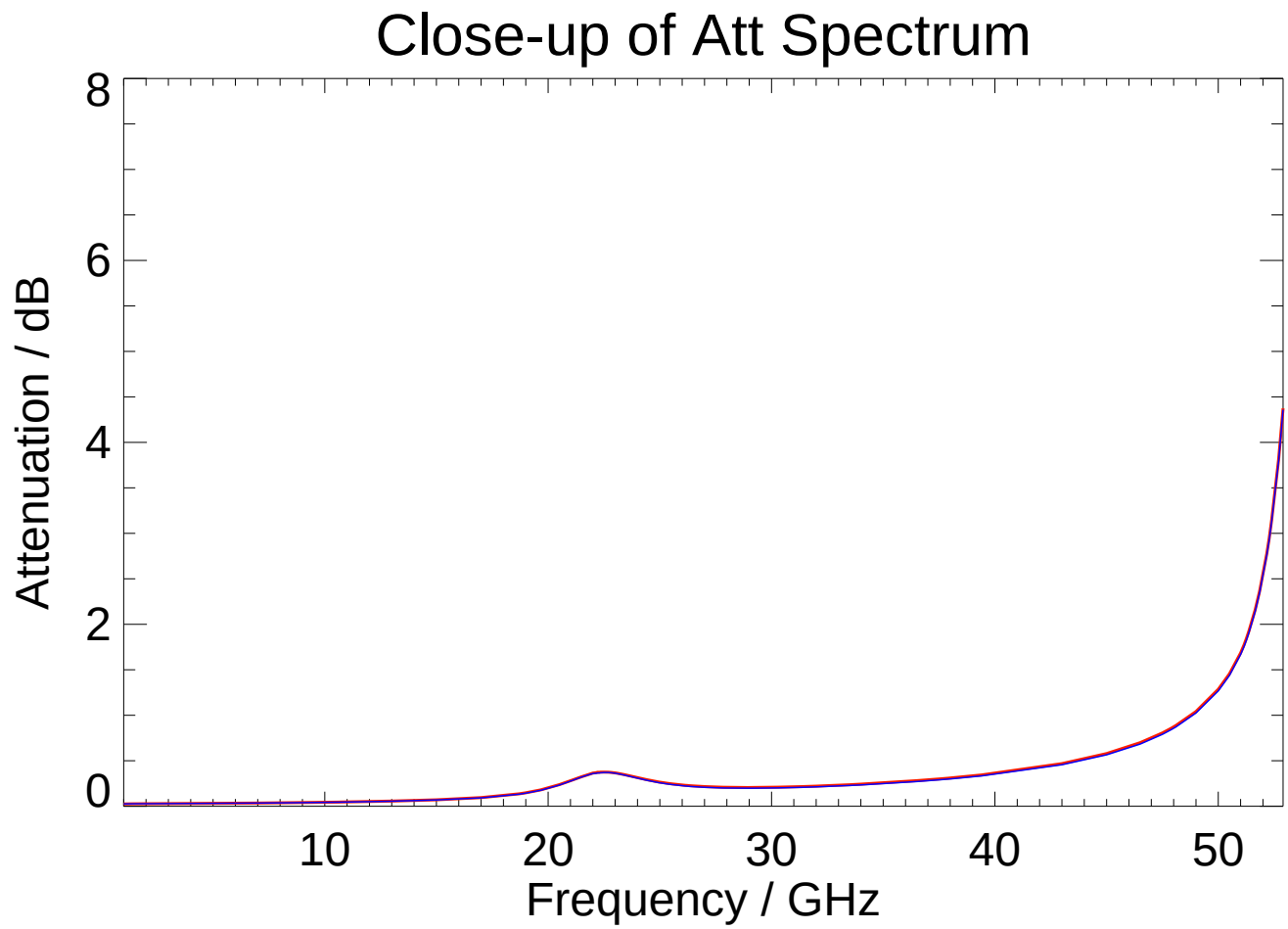
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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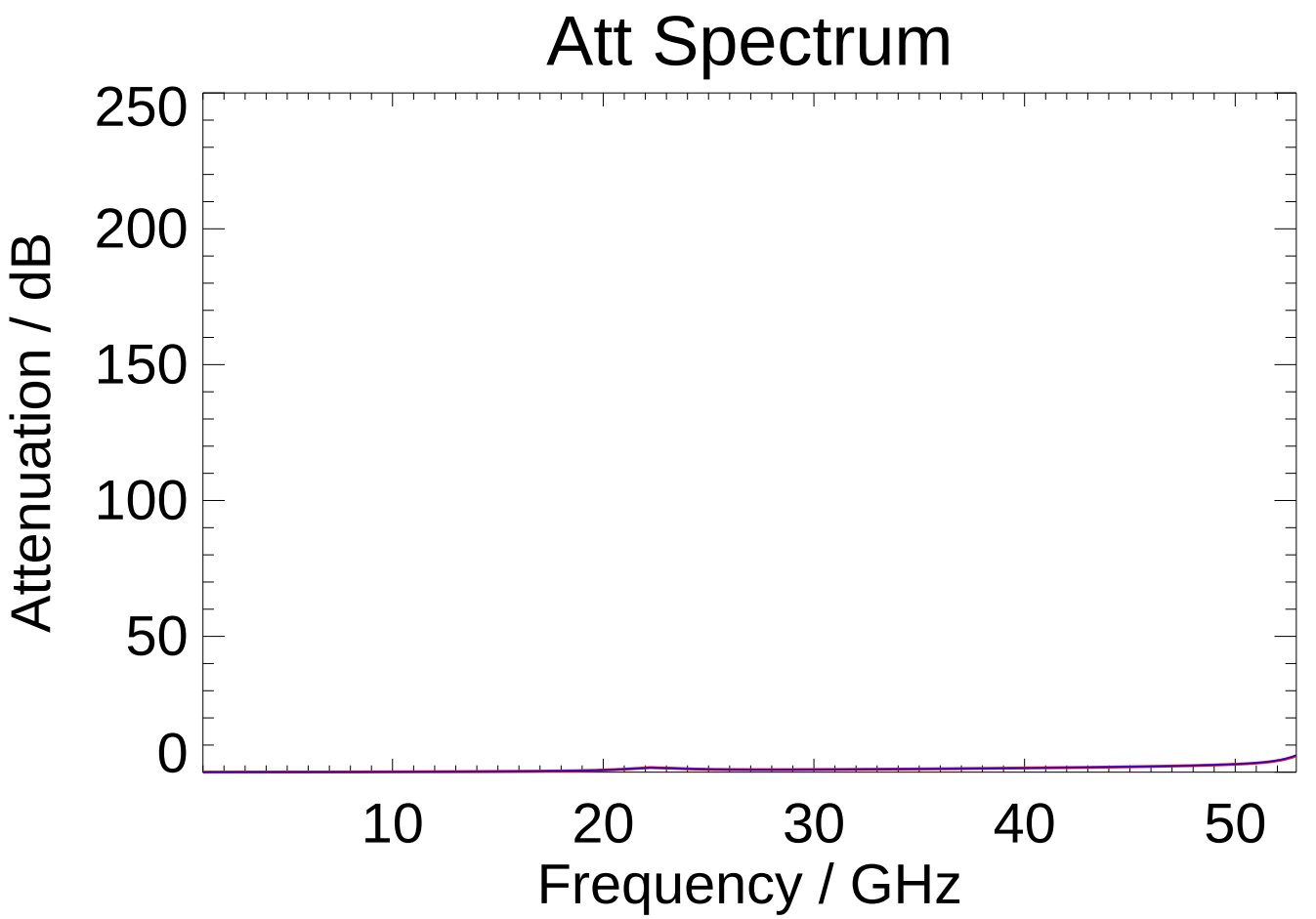
Frequency / GHz


Att Spectrum
Attenuation / dB
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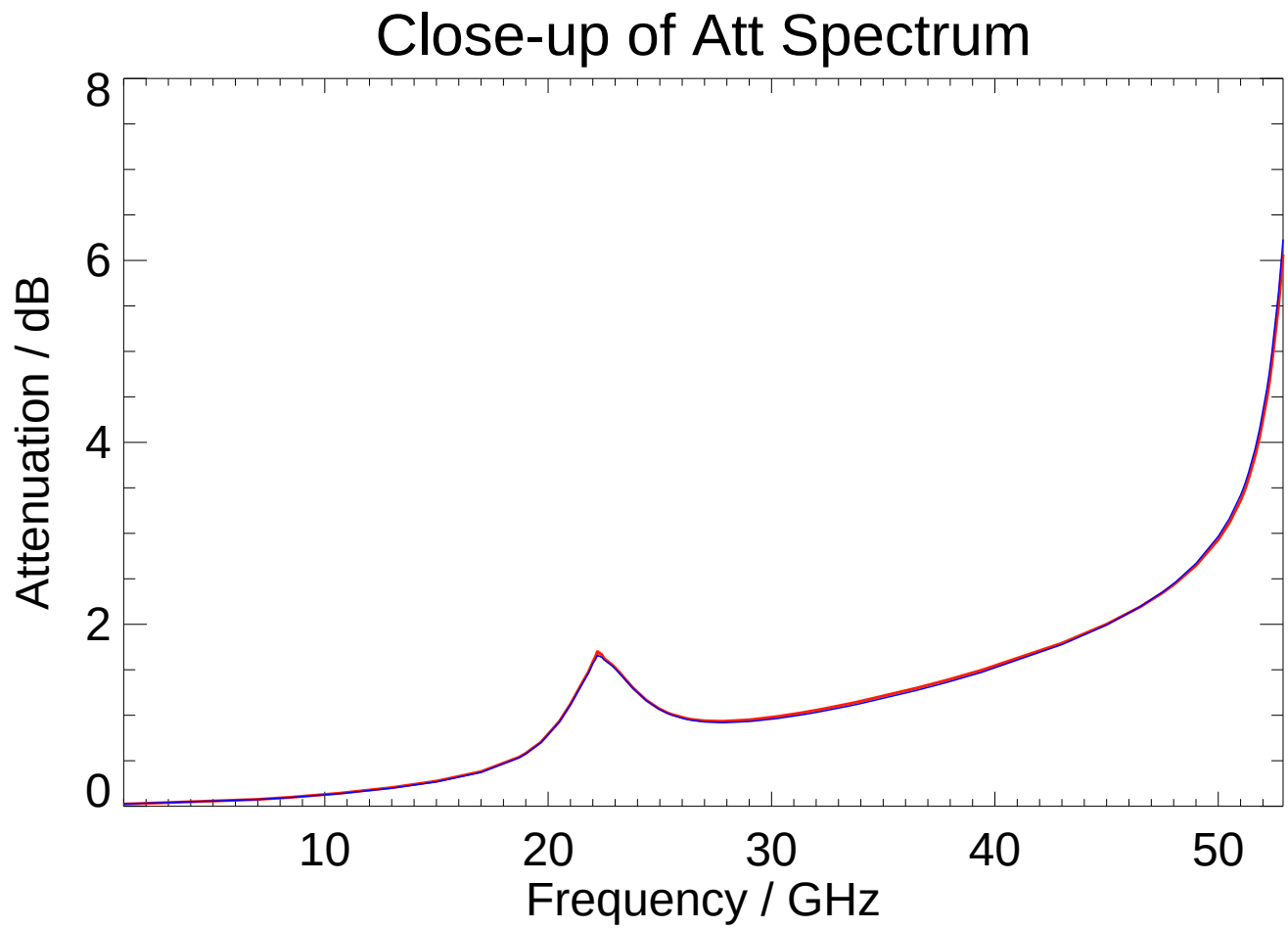
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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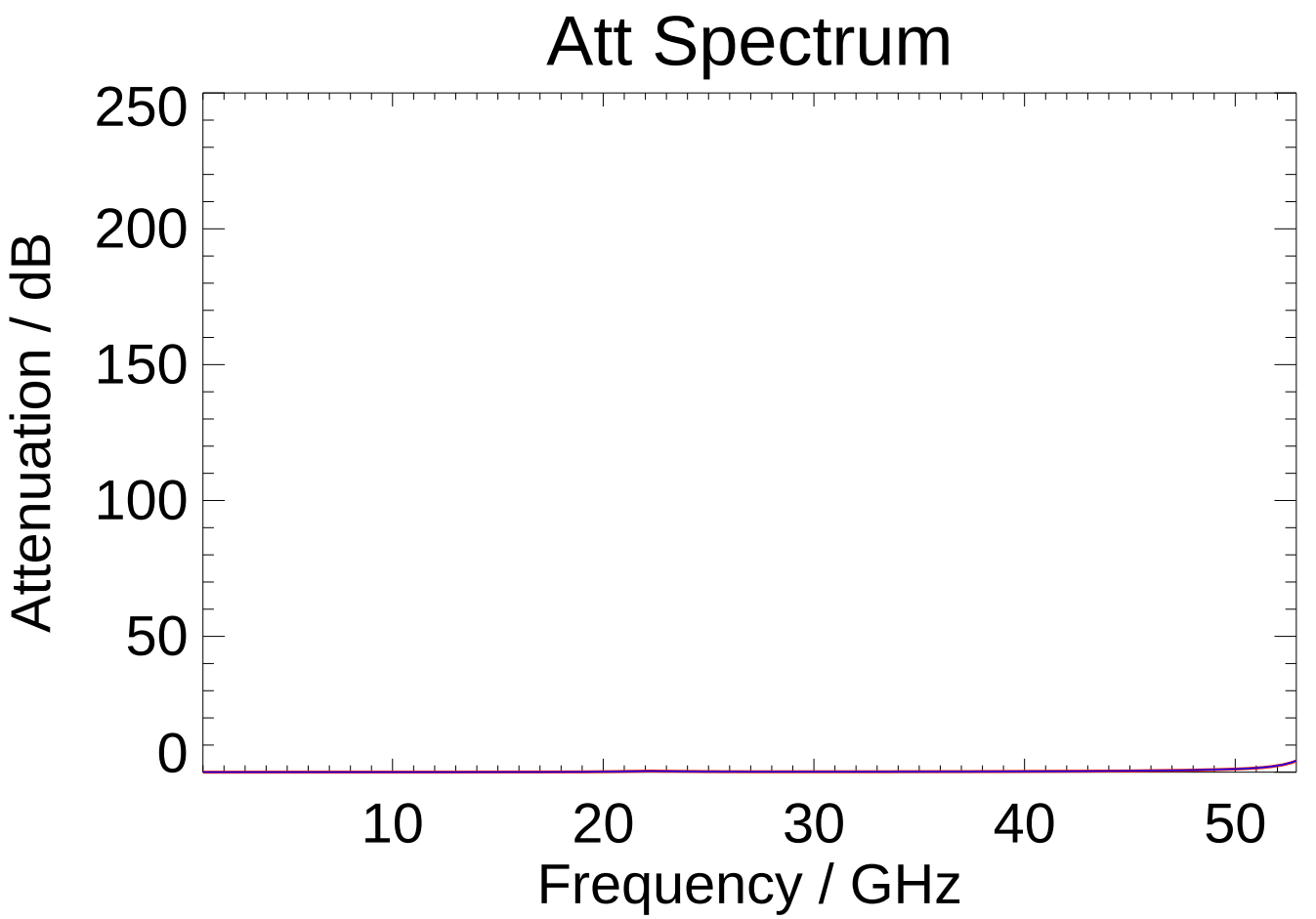
Frequency / GHz


Att Spectrum
Attenuation / dB
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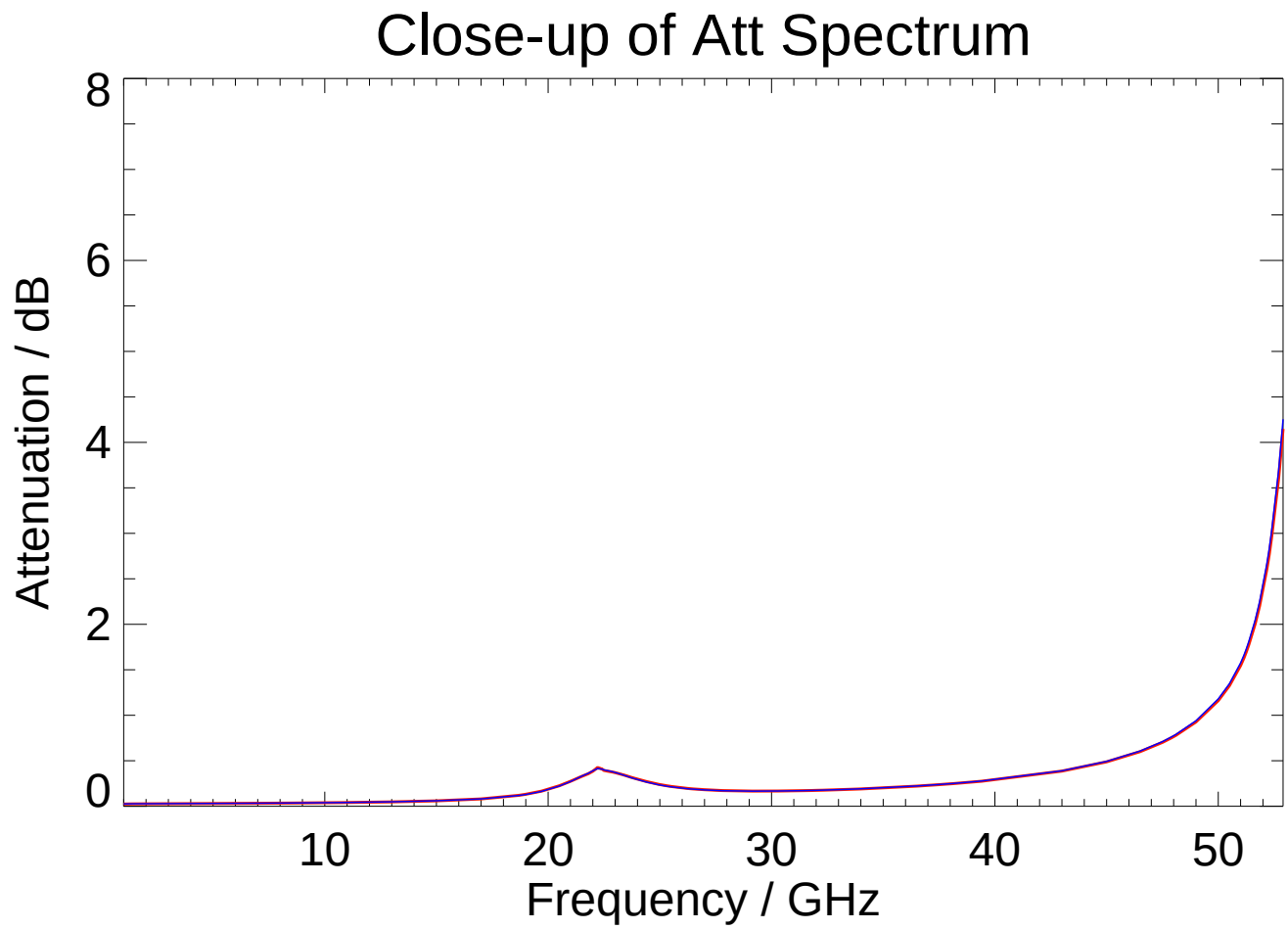
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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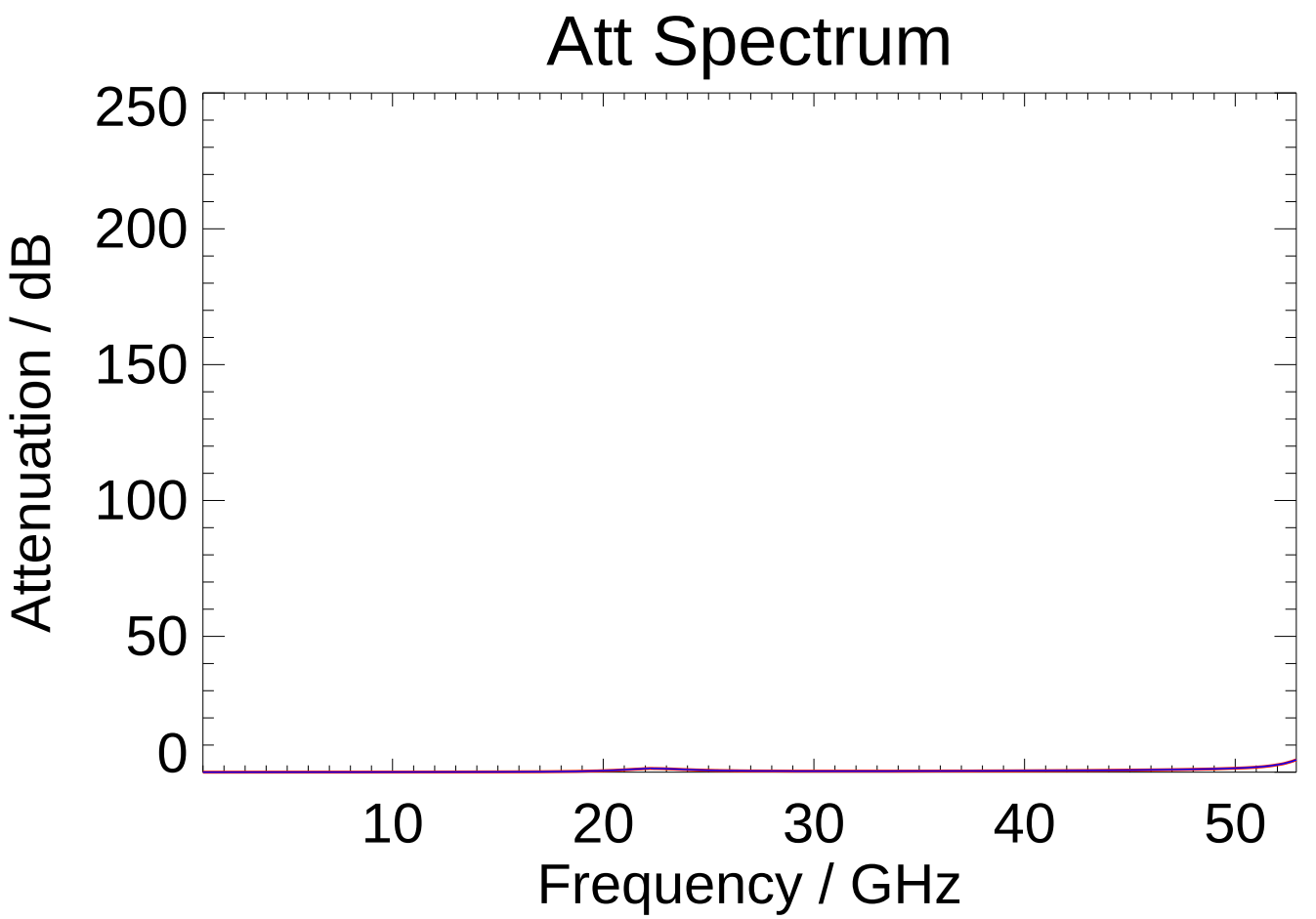
Frequency / GHz


Att Spectrum
Attenuation / dB
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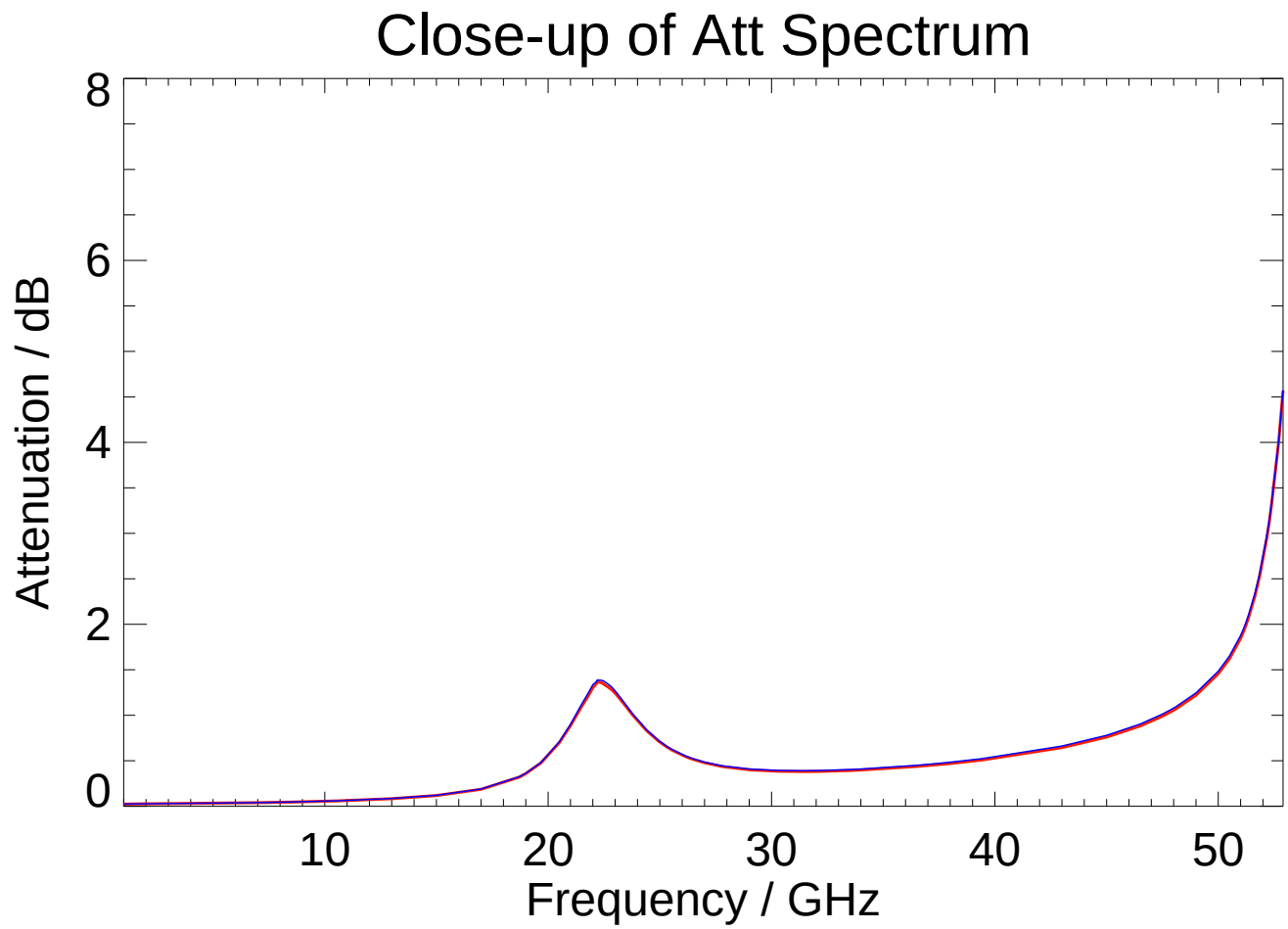
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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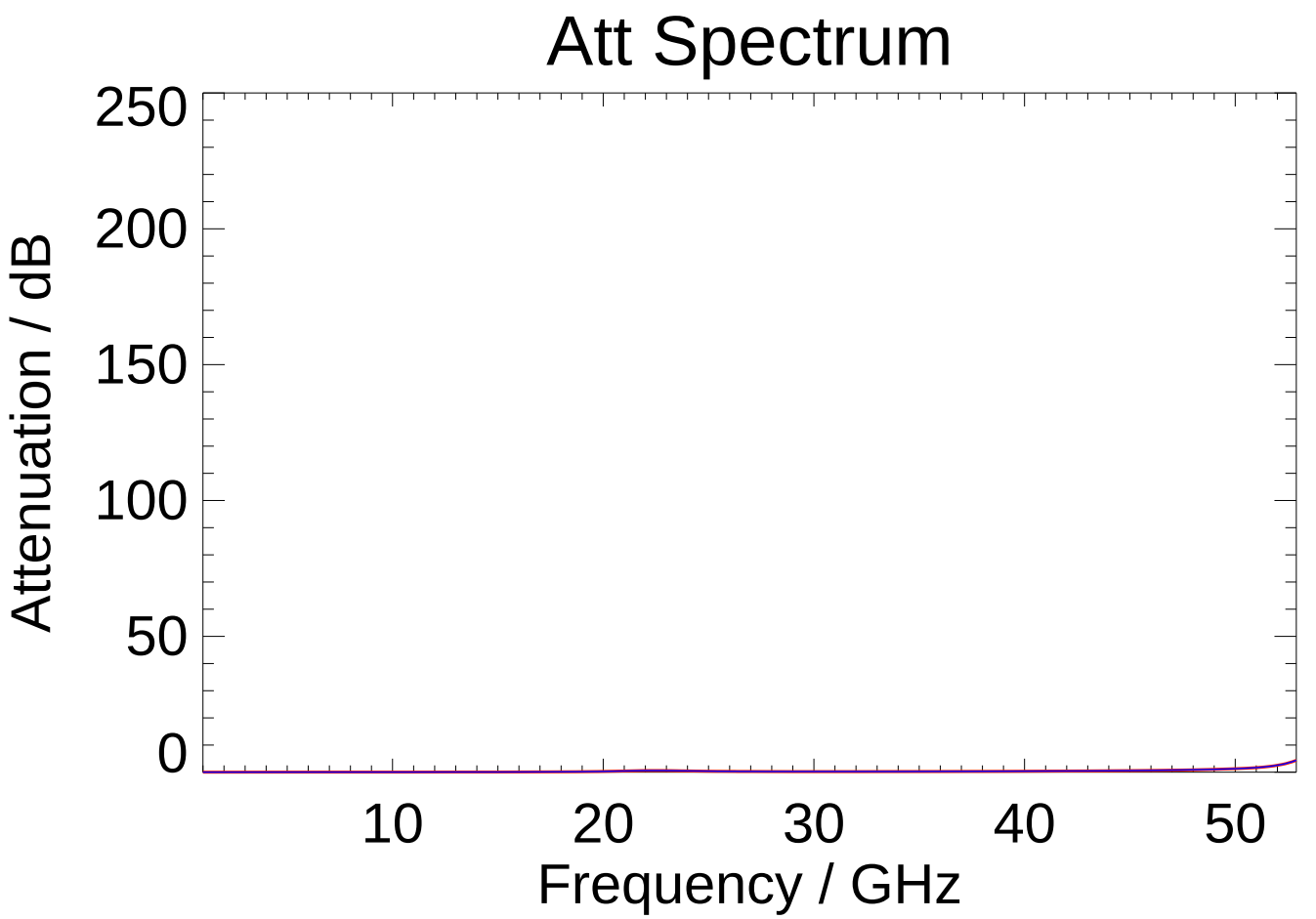
Frequency / GHz


Att Spectrum
Attenuation / dB
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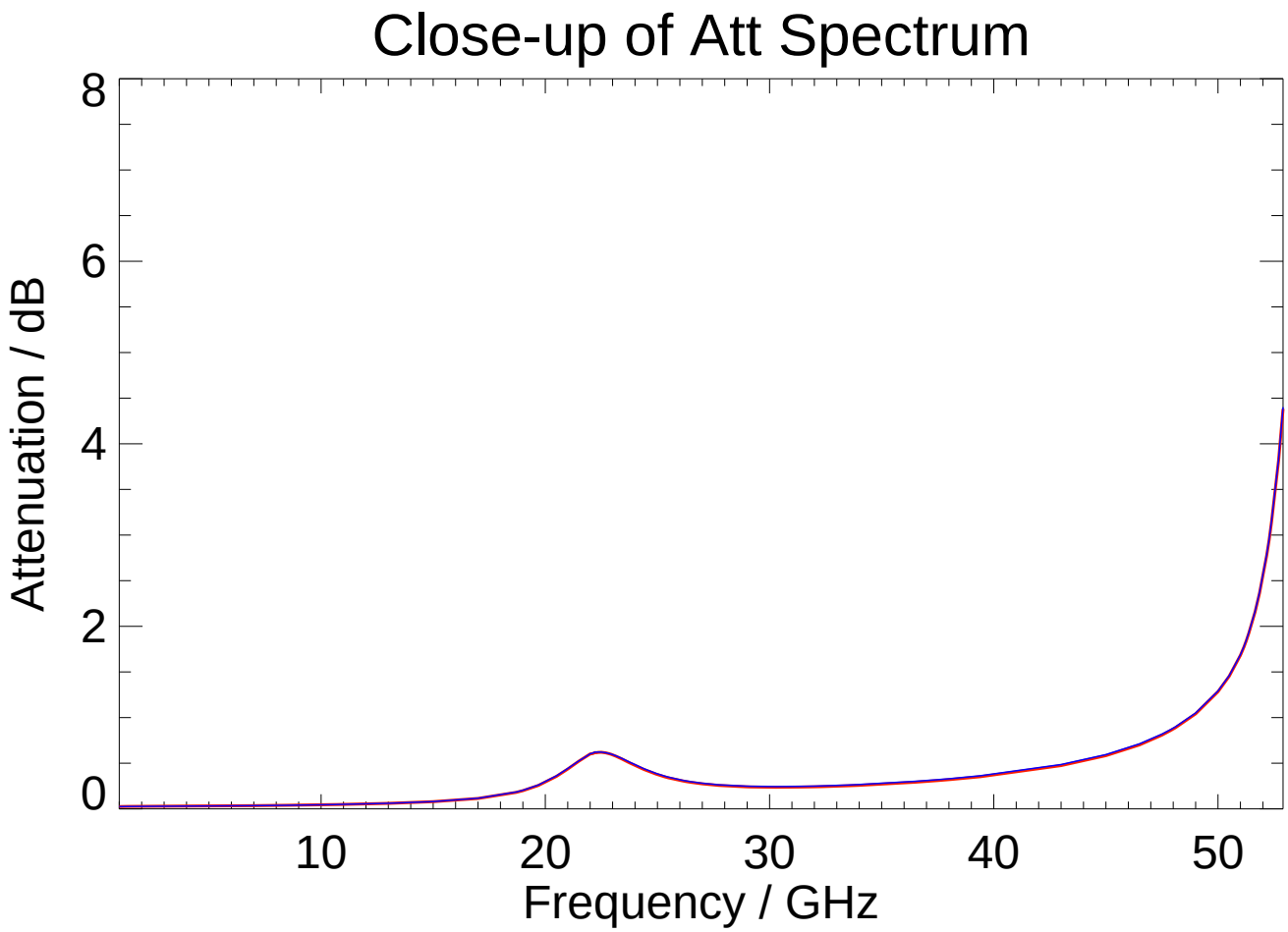
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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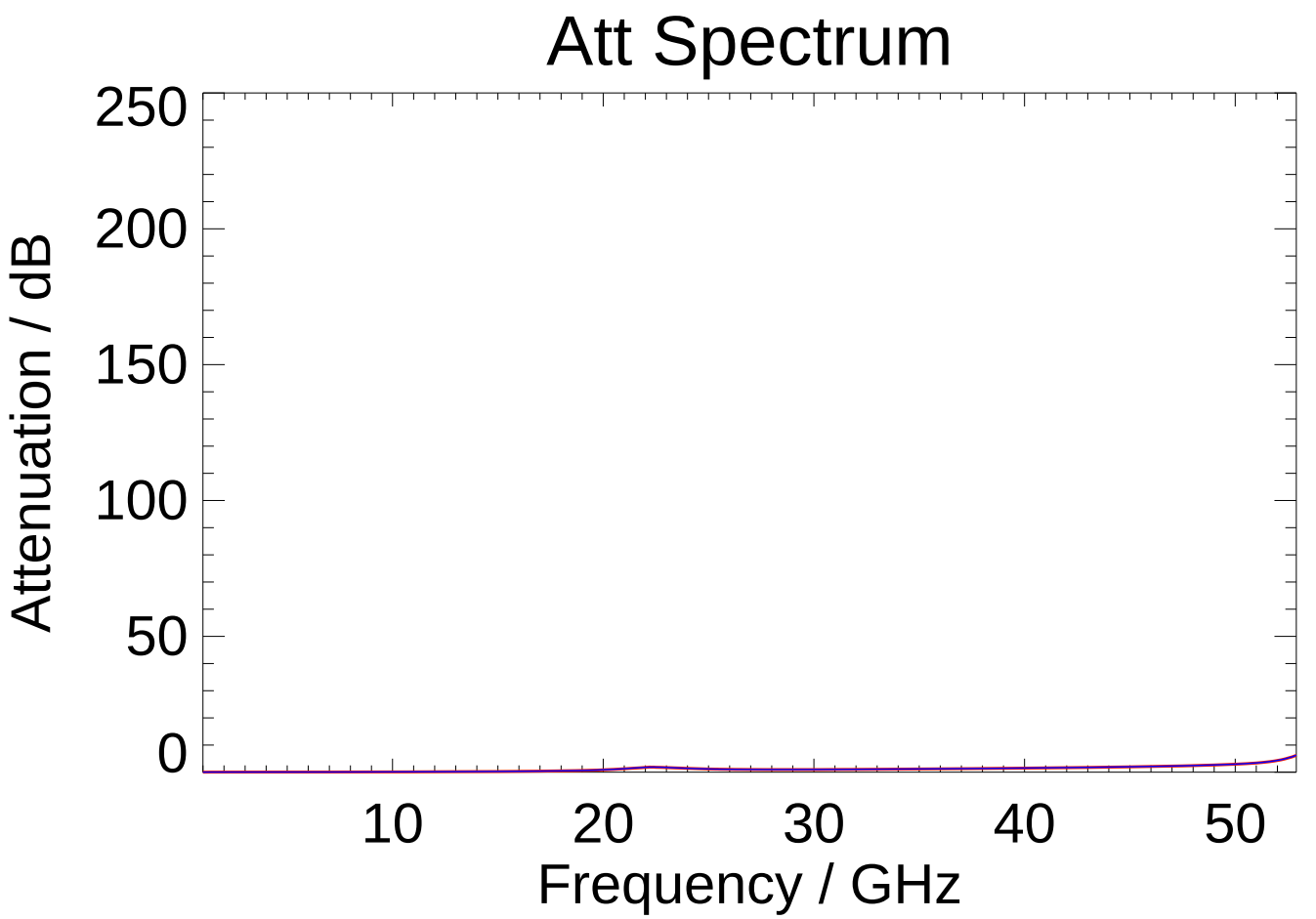
Frequency / GHz


Att Spectrum
Attenuation / dB
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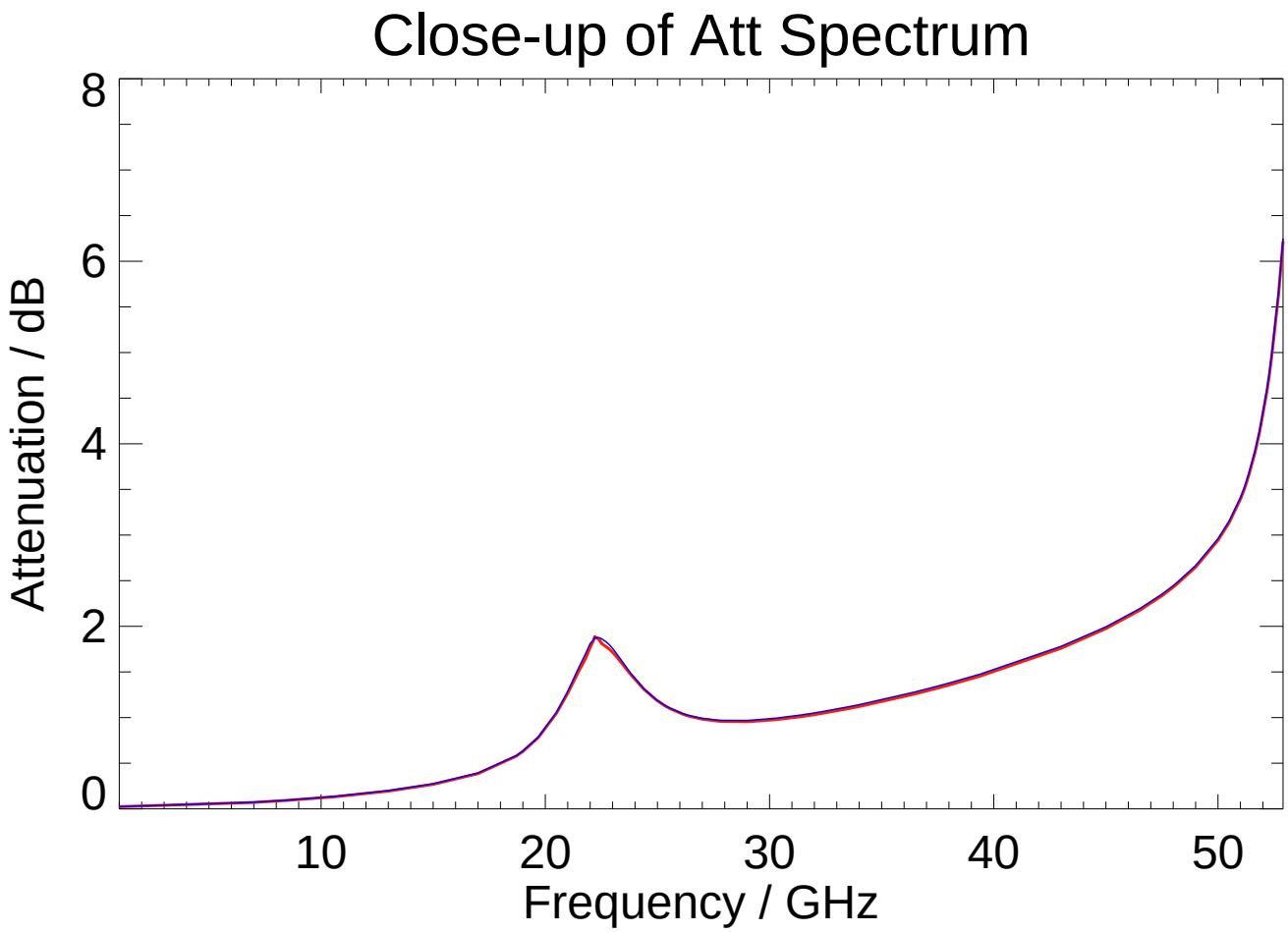
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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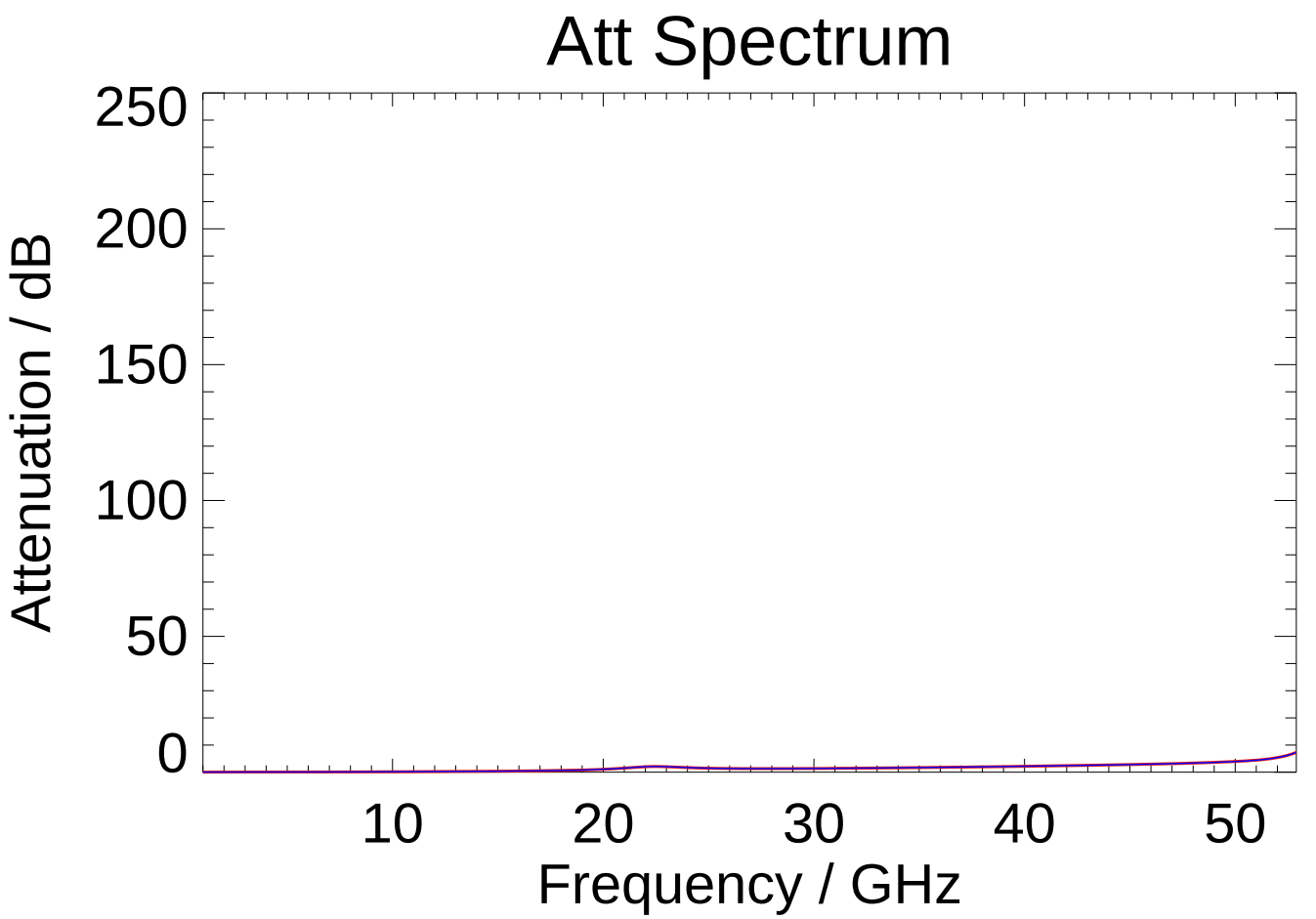
Frequency / GHz


Att Spectrum
Attenuation / dB
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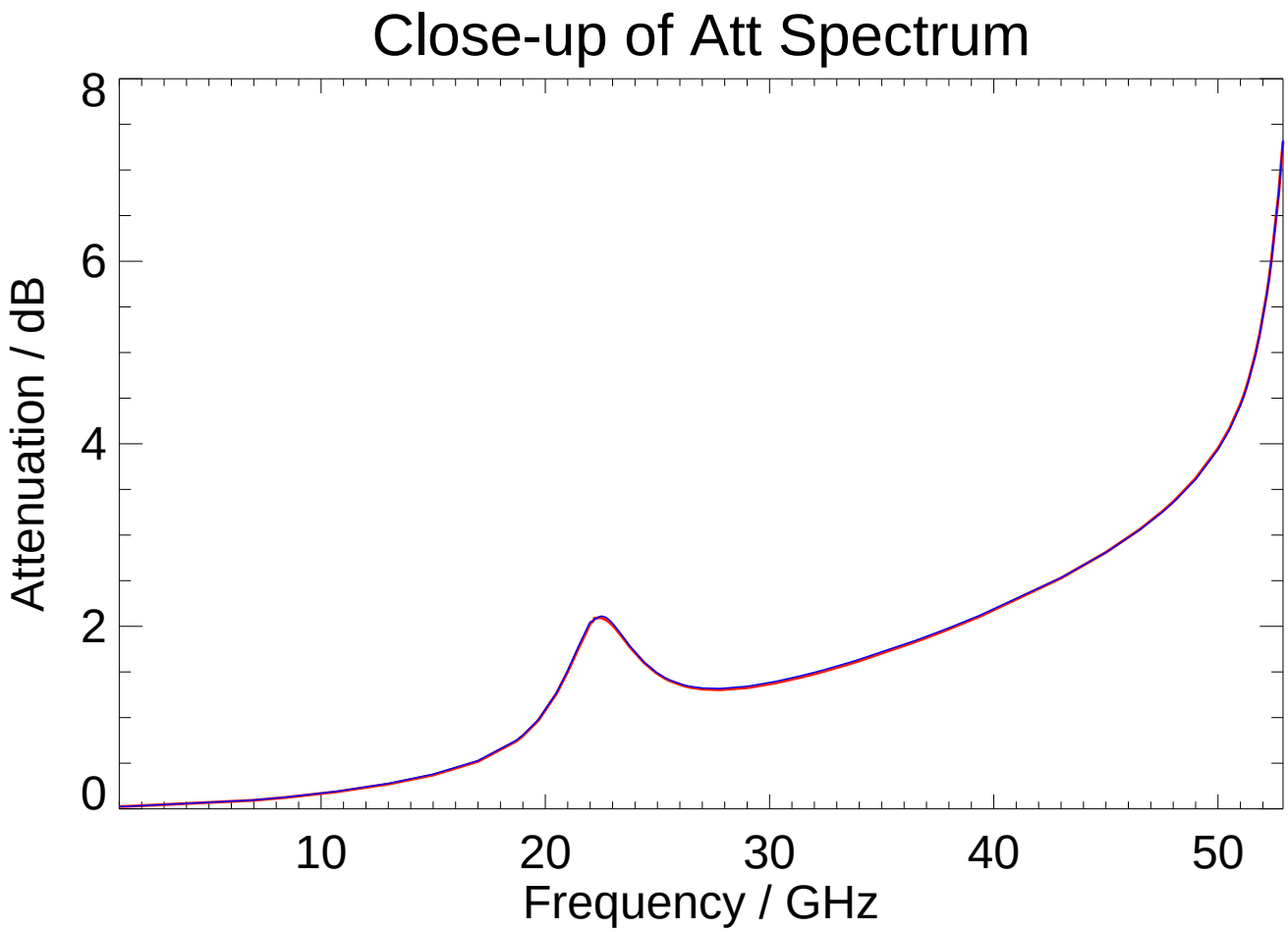
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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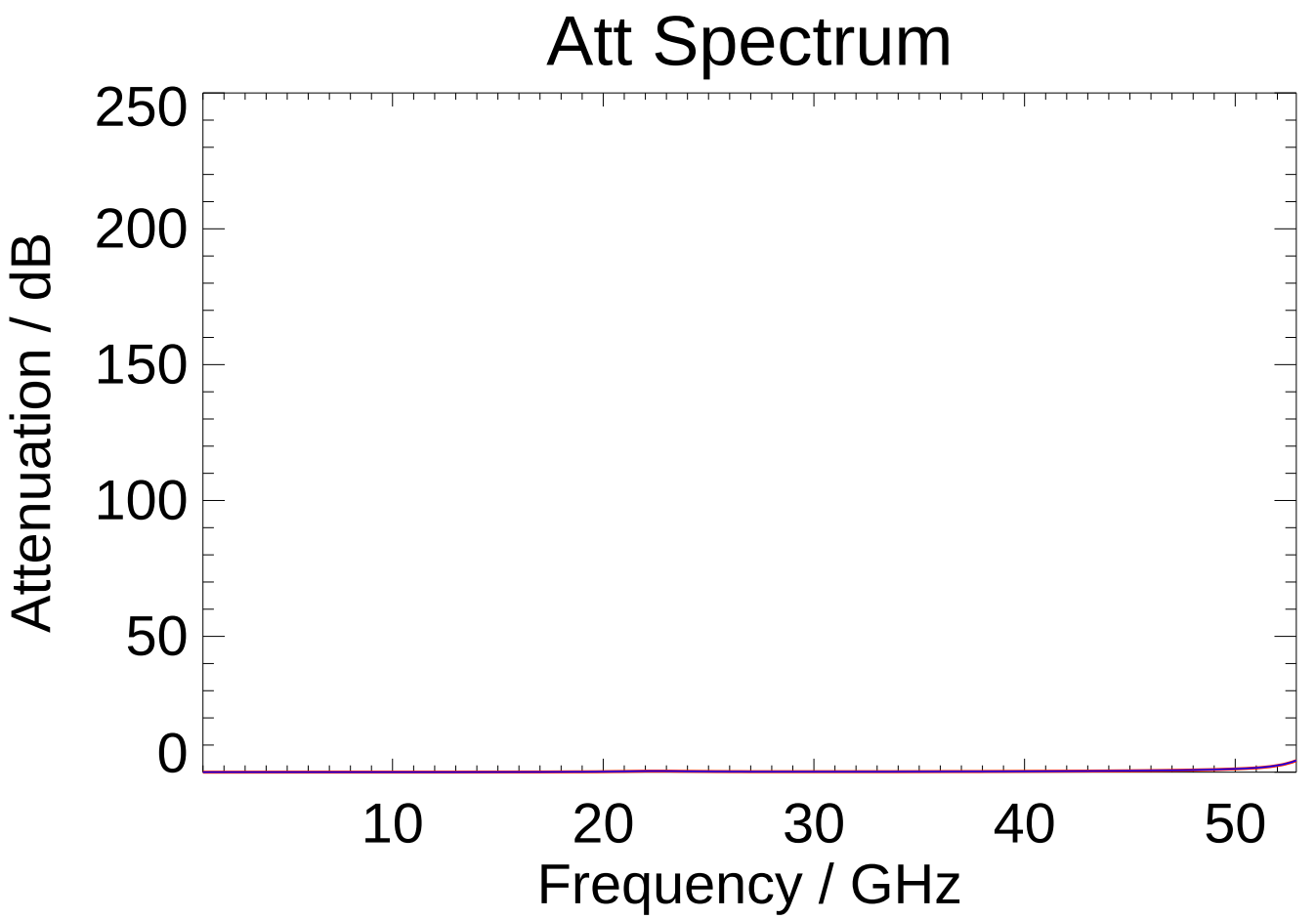
Frequency / GHz


Att Spectrum
Attenuation / dB
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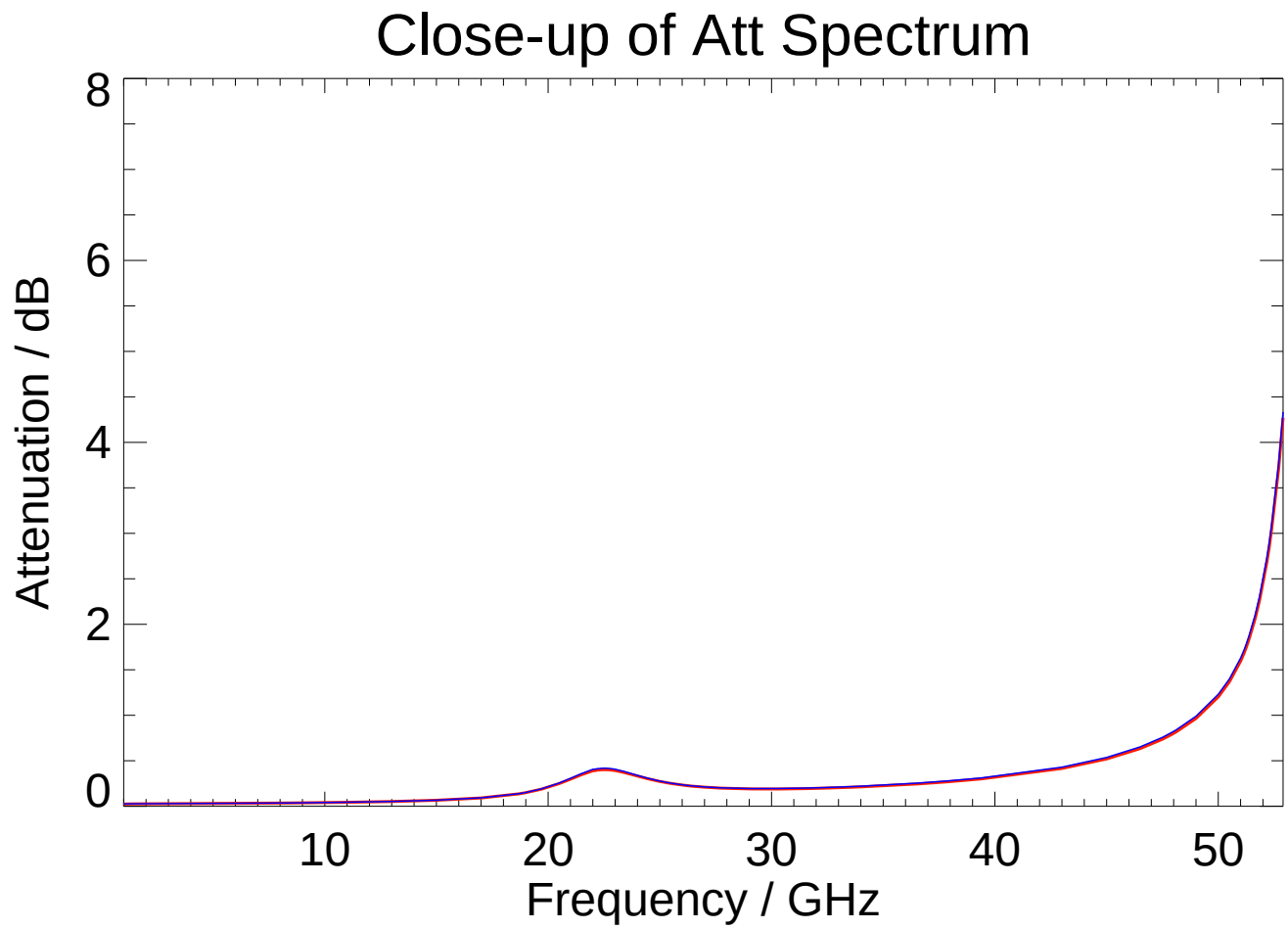
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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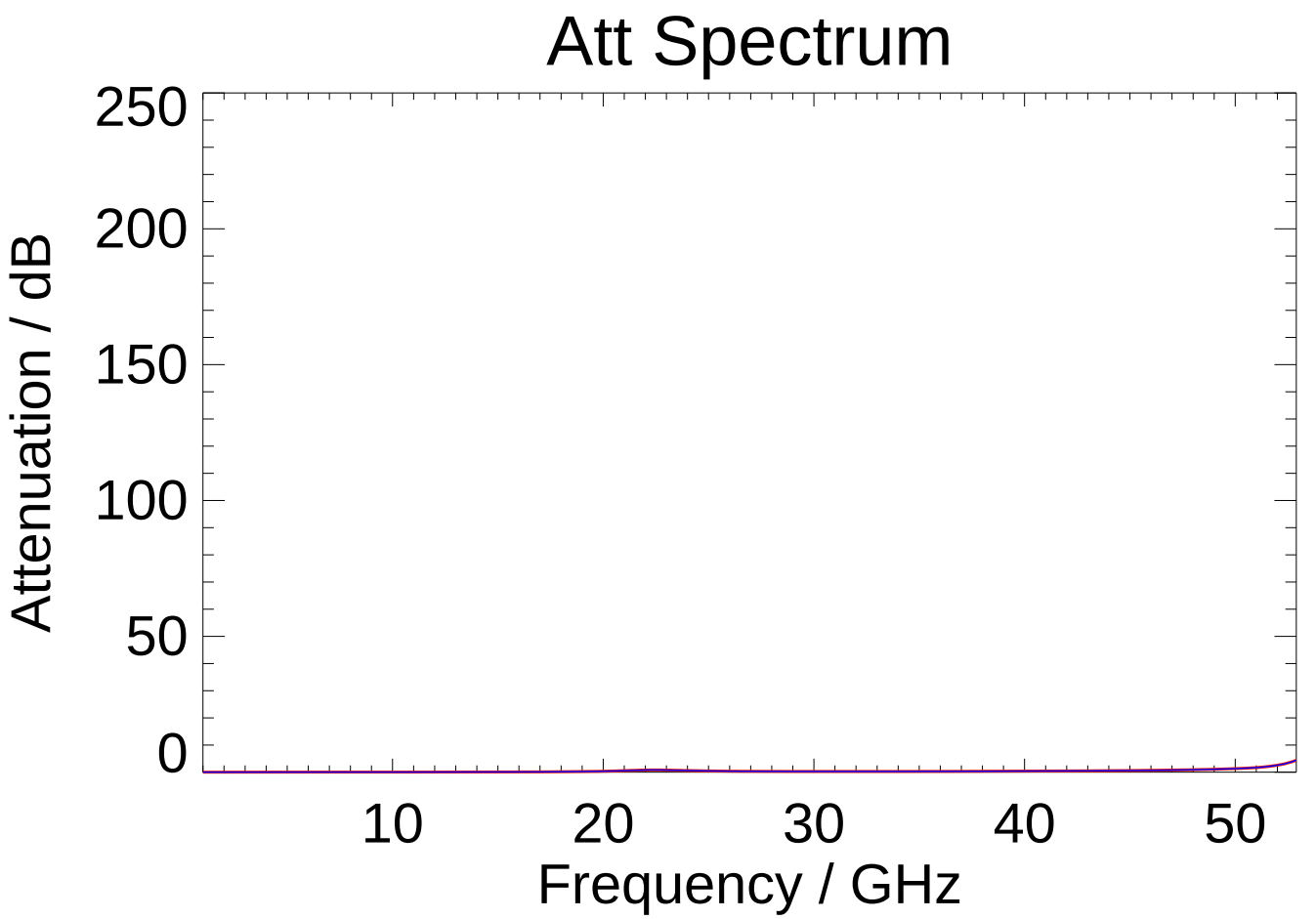
Frequency / GHz


Att Spectrum
Attenuation / dB
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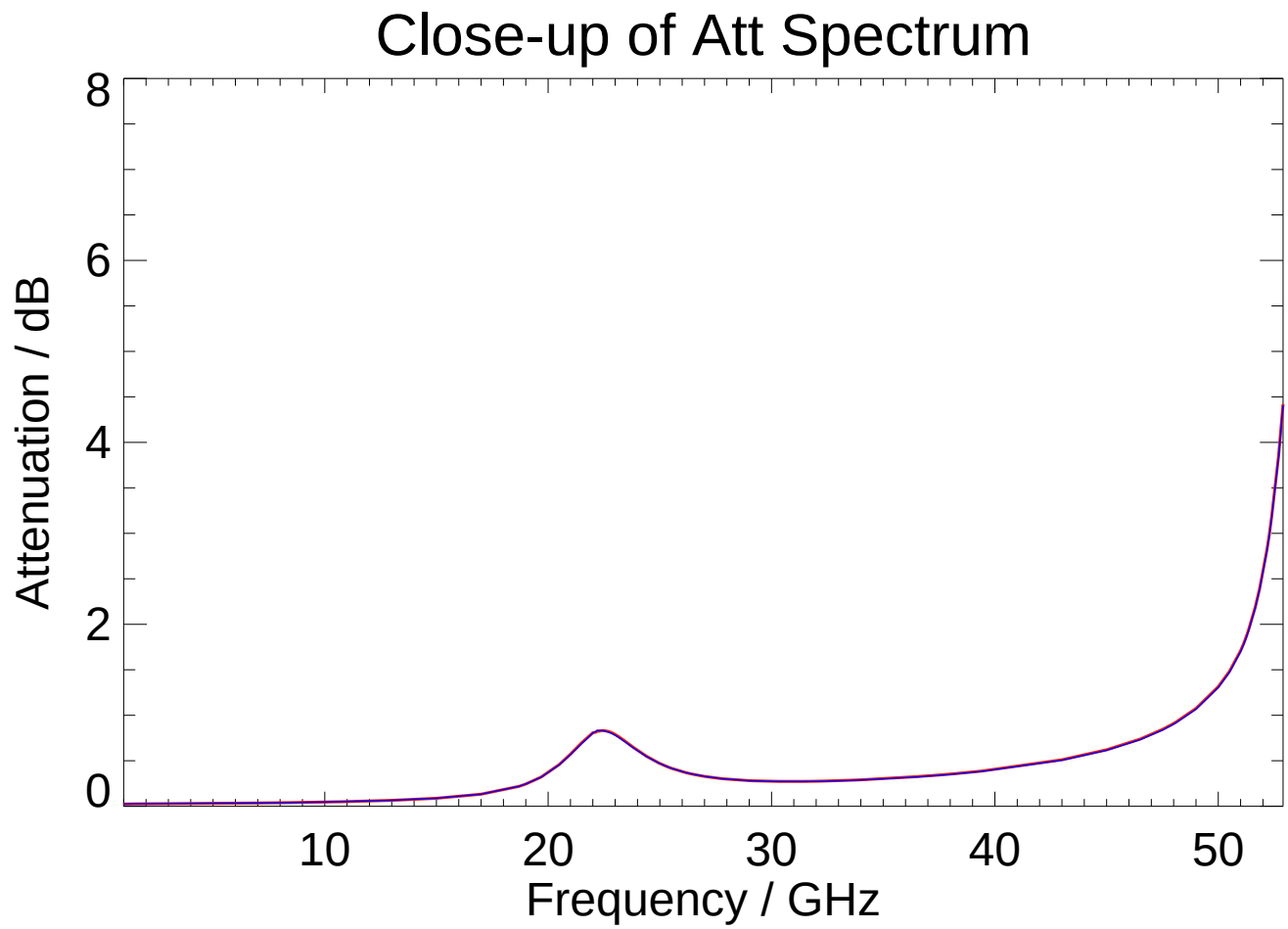
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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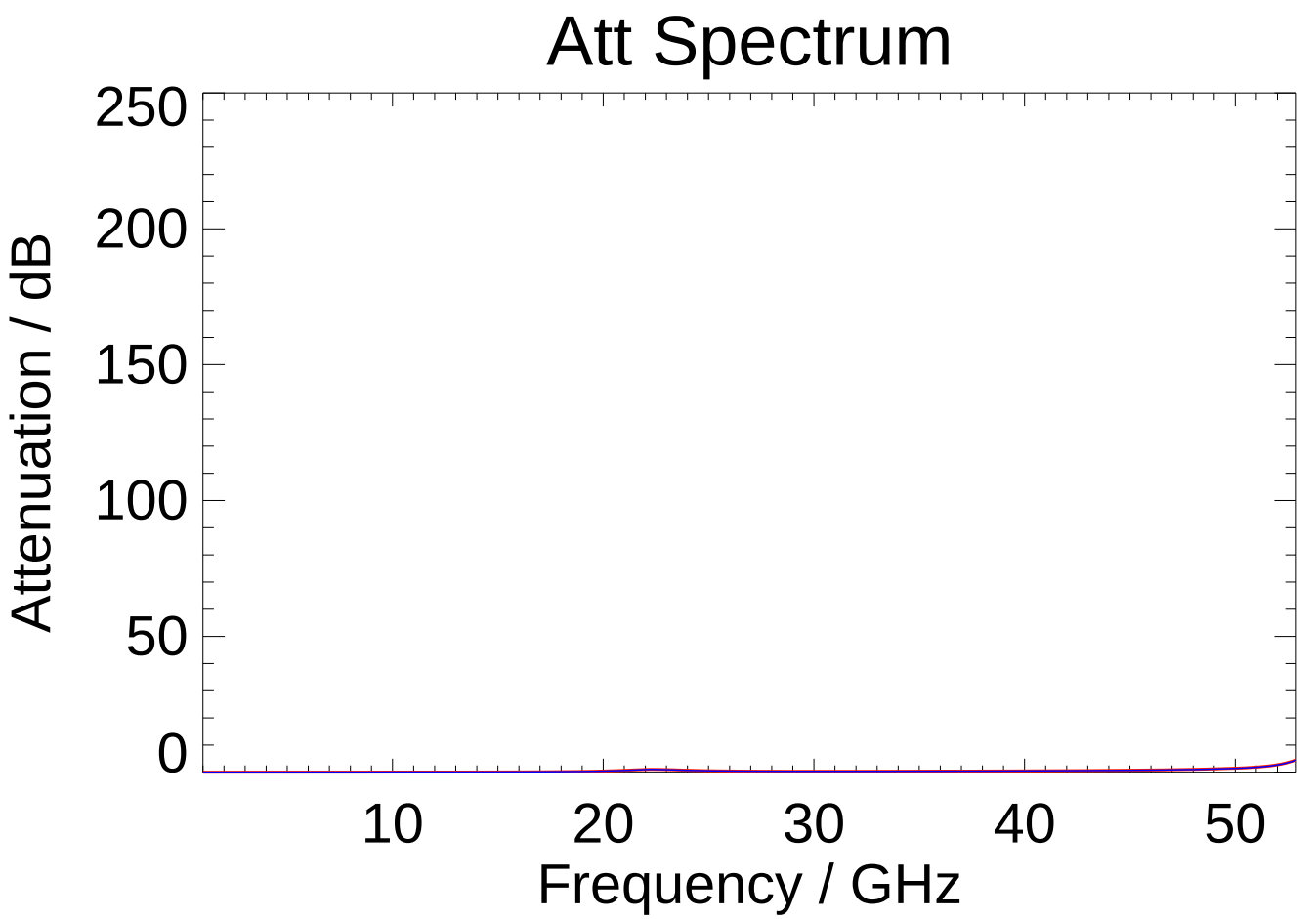
Frequency / GHz


Att Spectrum
Attenuation / dB
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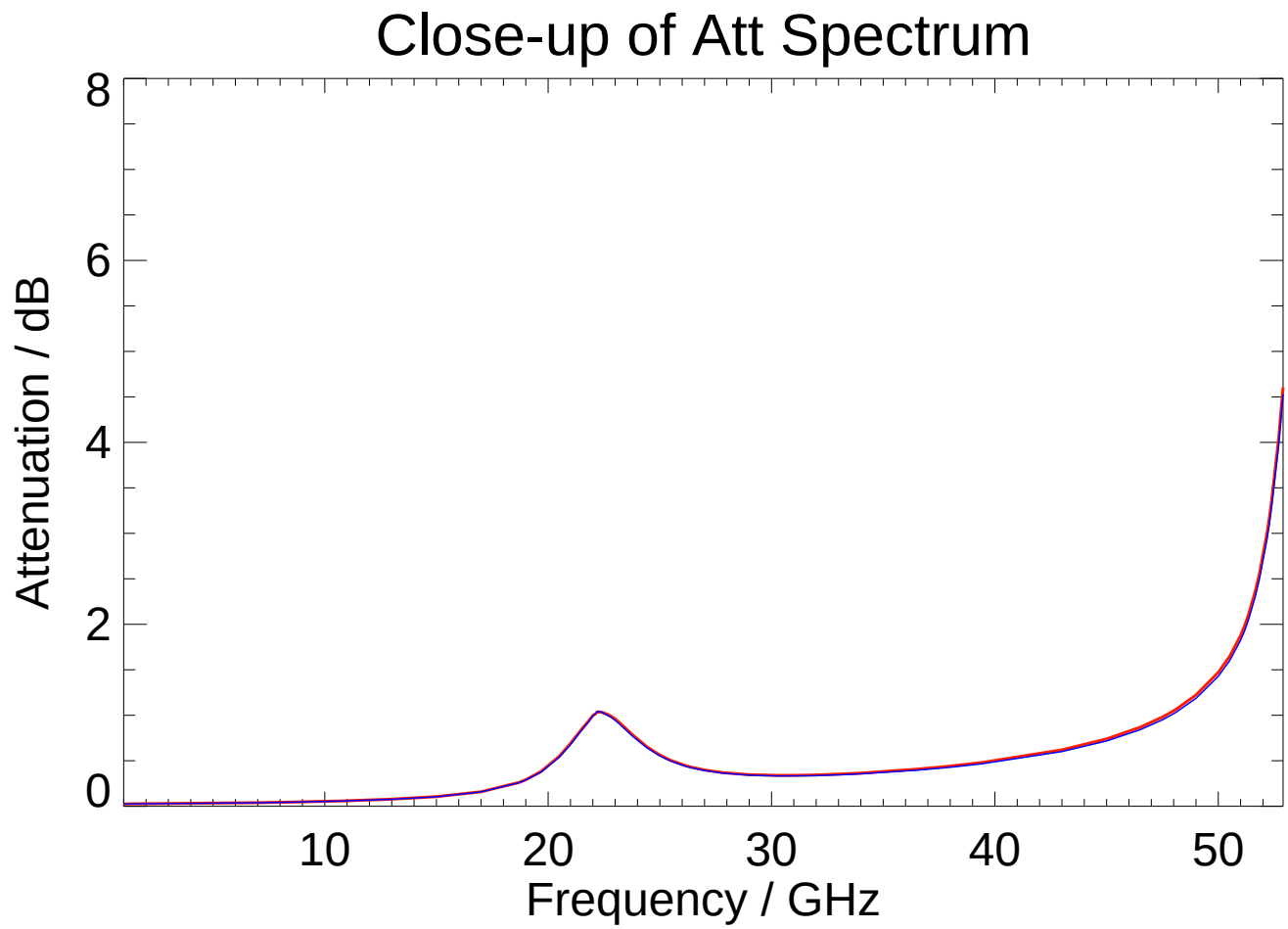
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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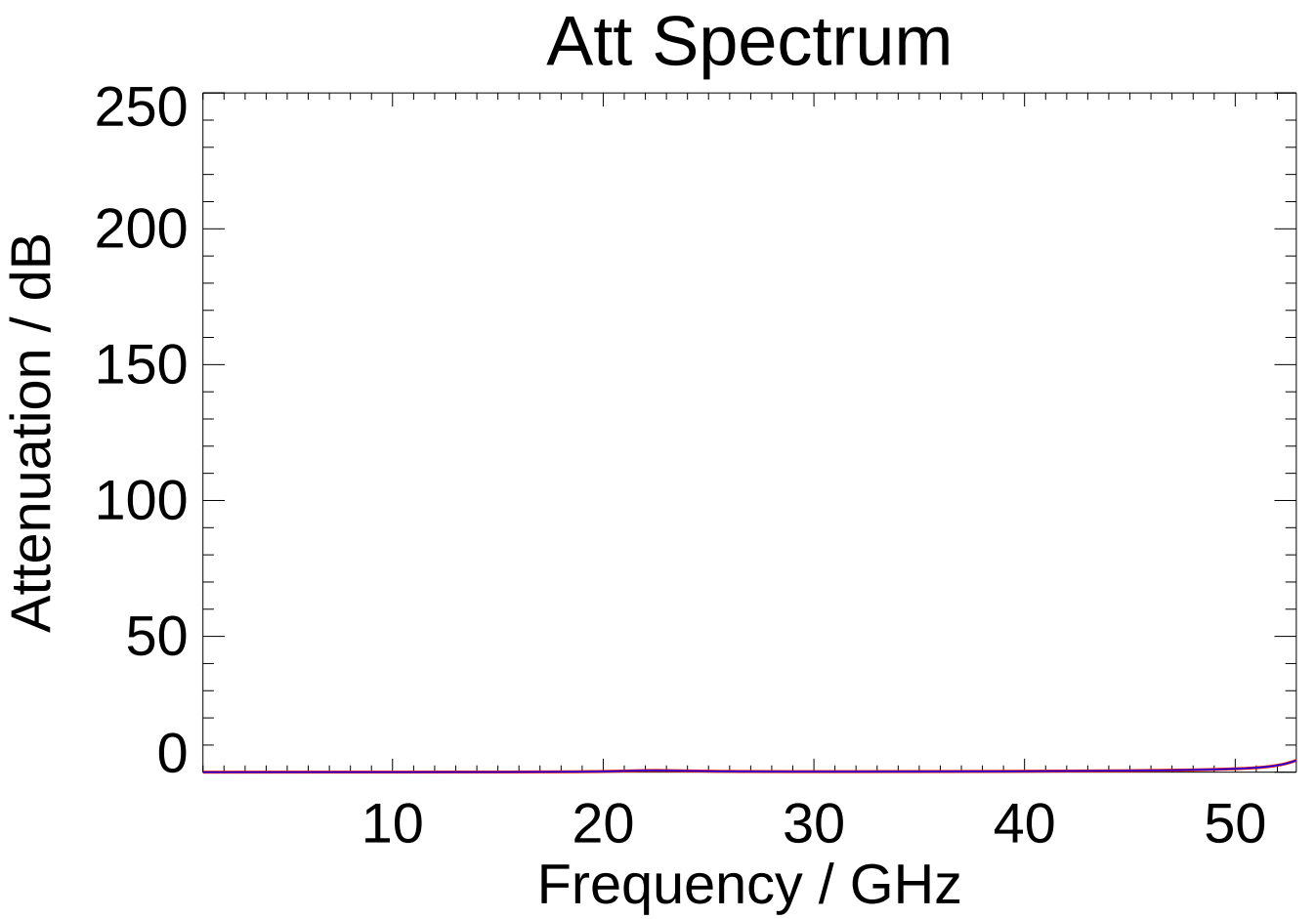
Frequency / GHz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Attenuation / dB
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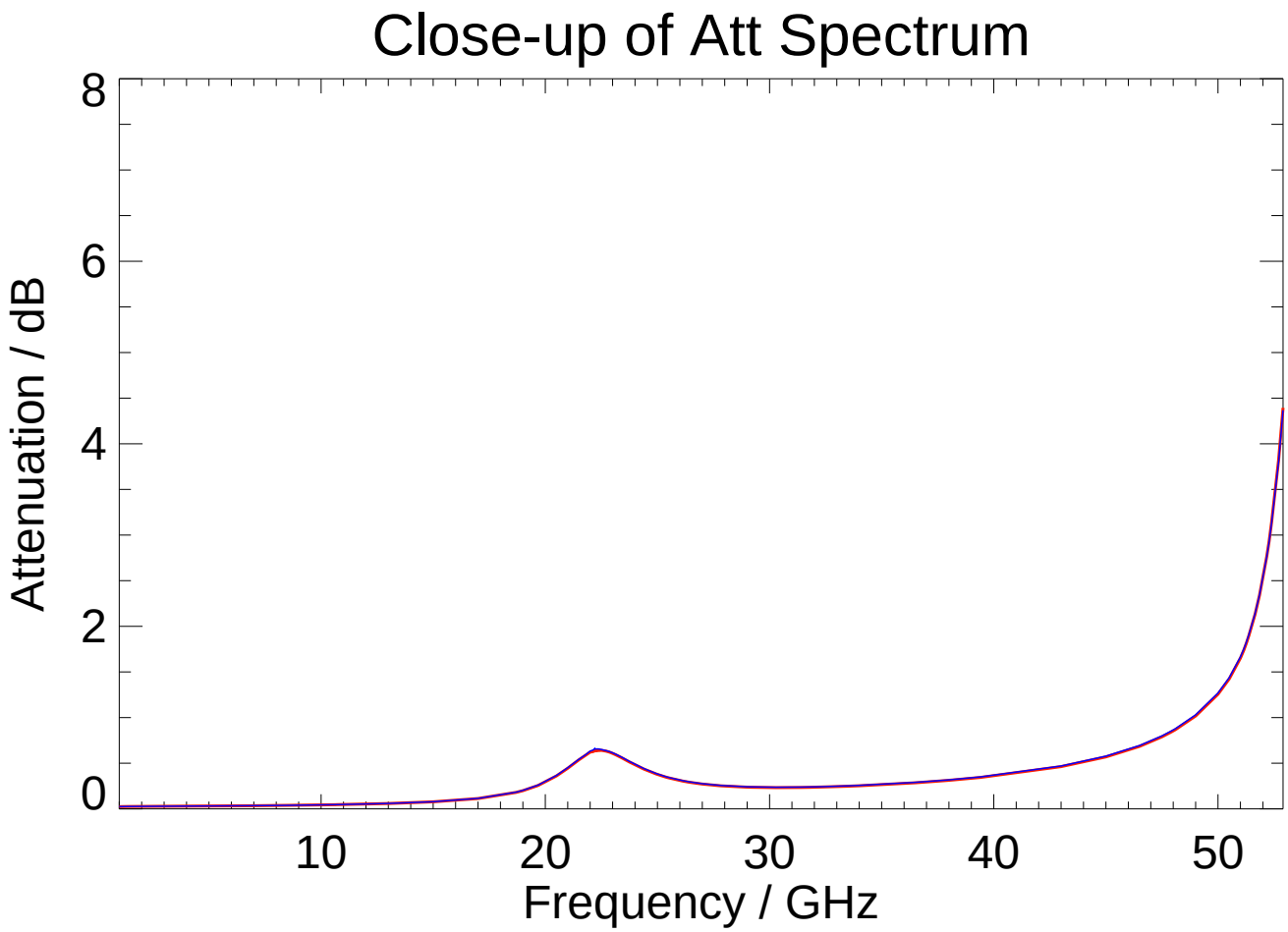
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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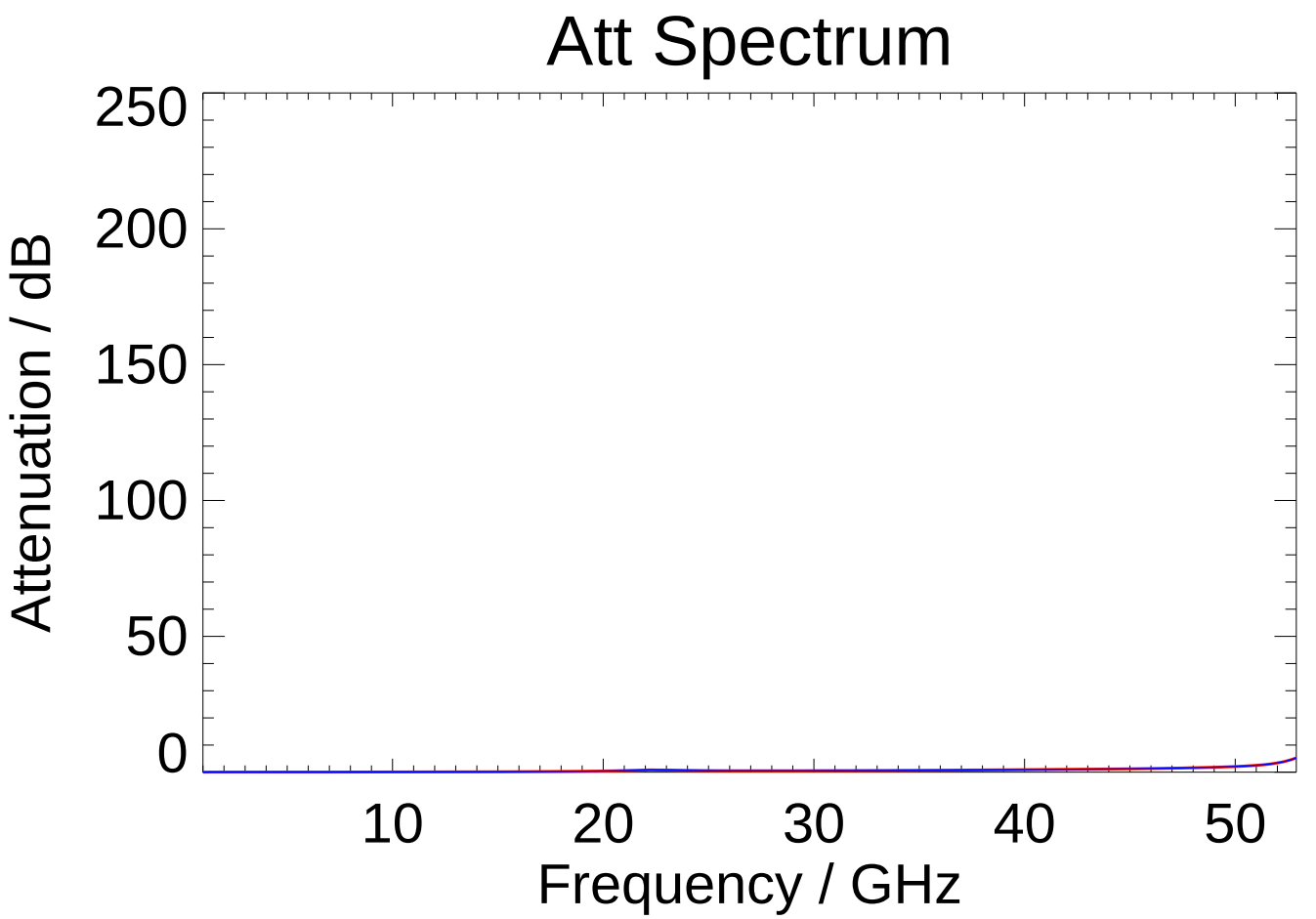
Frequency / GHz


Att Spectrum
Attenuation / dB
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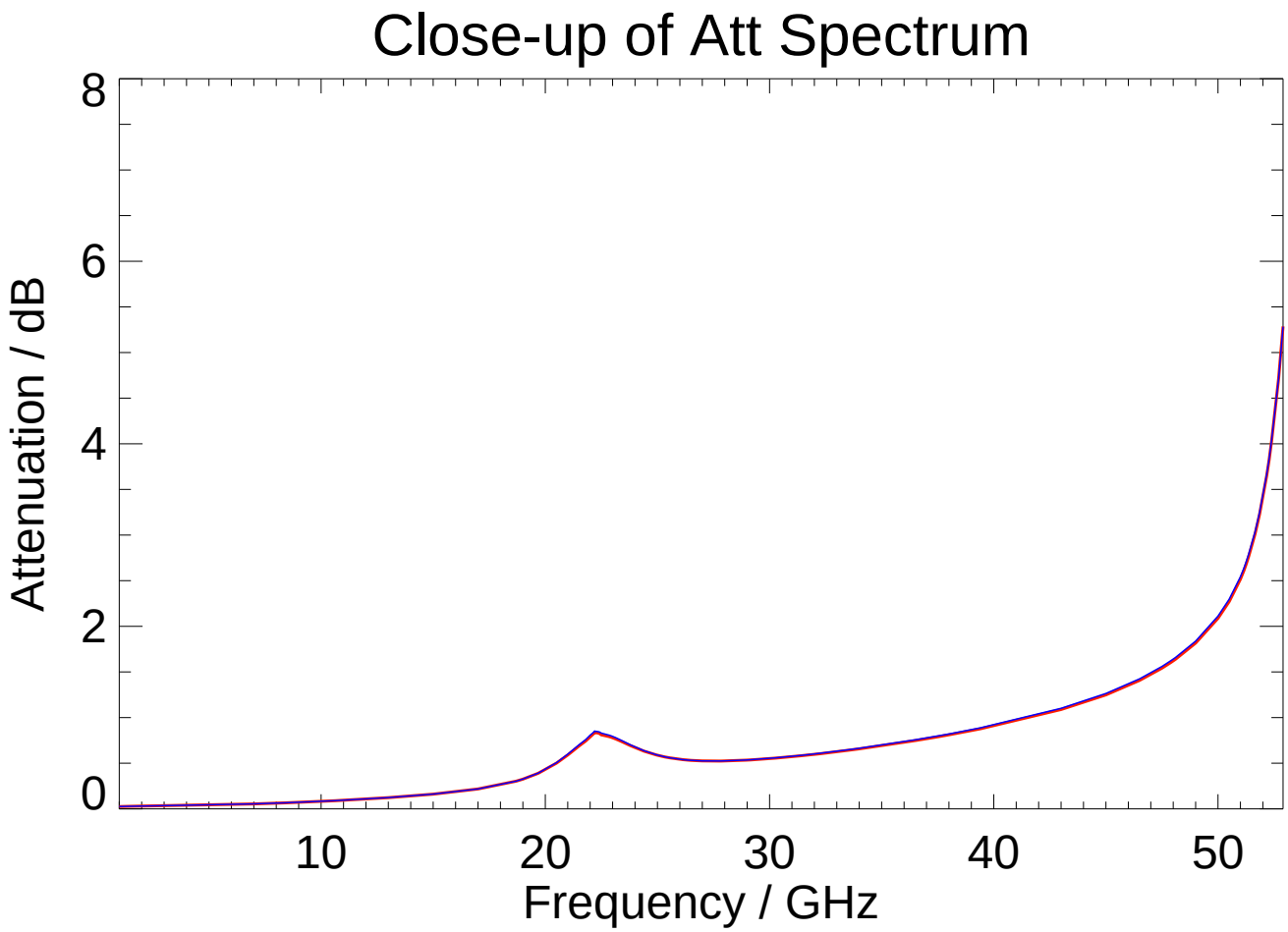
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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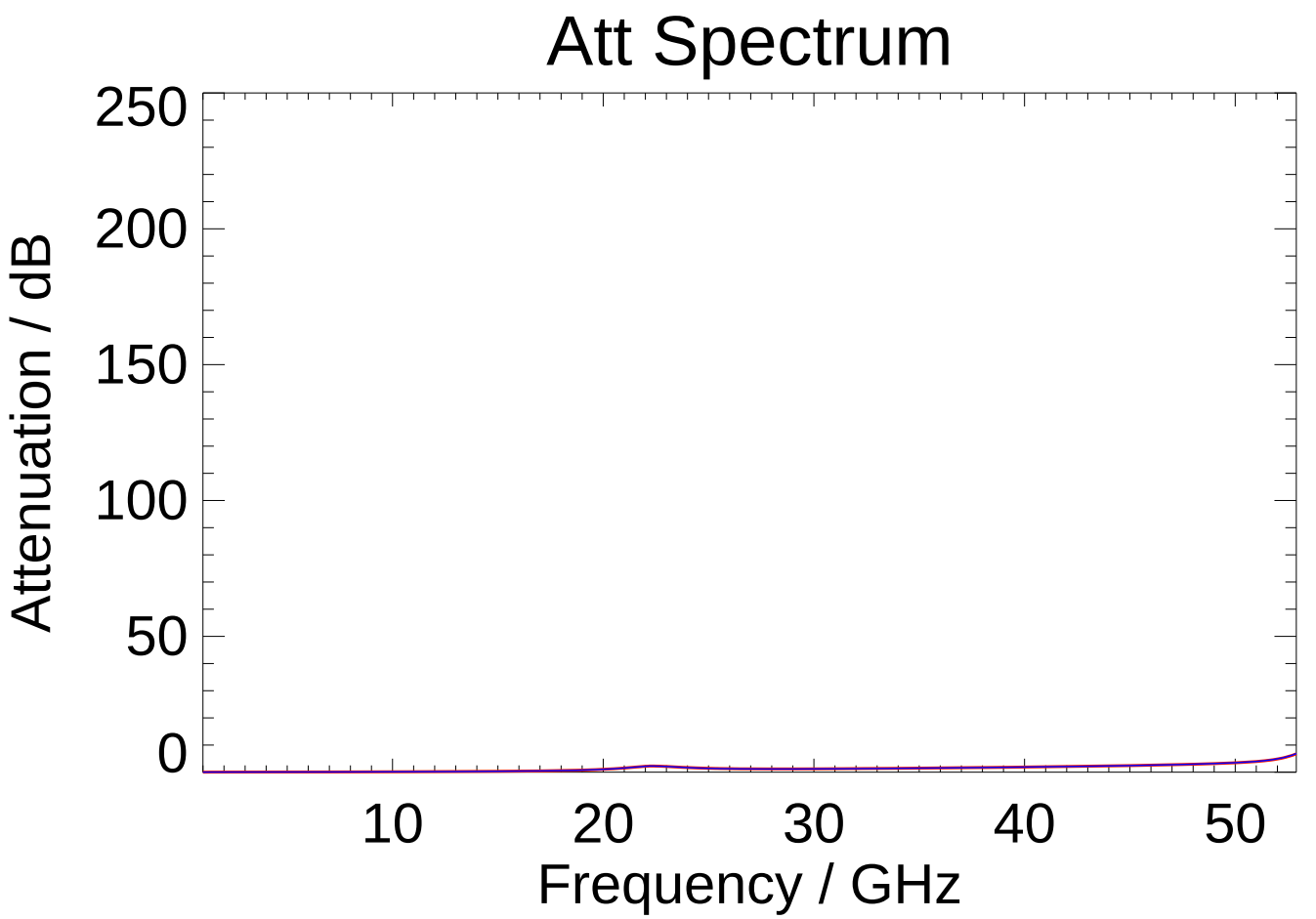
Frequency / GHz


Att Spectrum
Attenuation / dB
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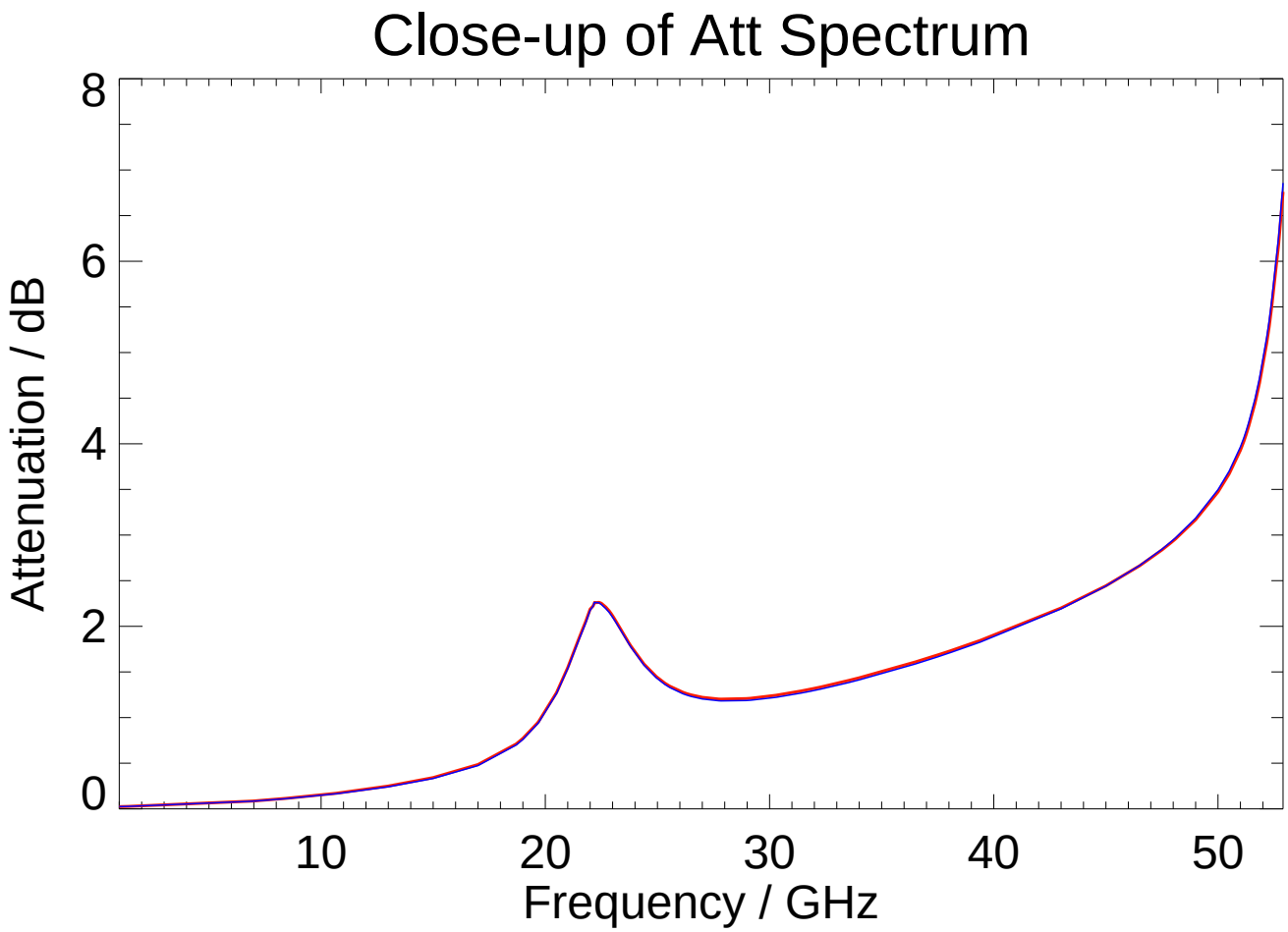
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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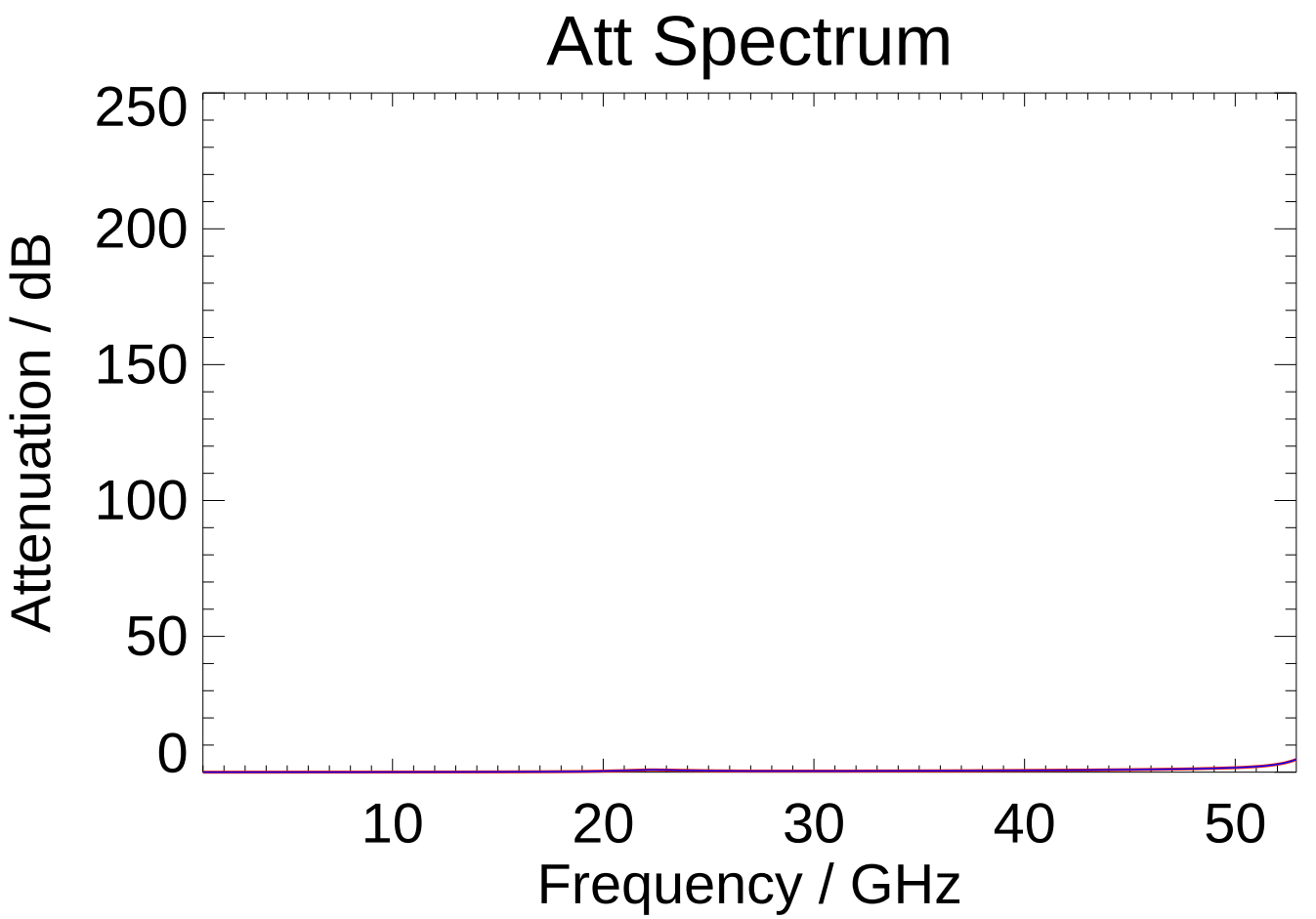
Frequency / GHz


Att Spectrum
Attenuation / dB
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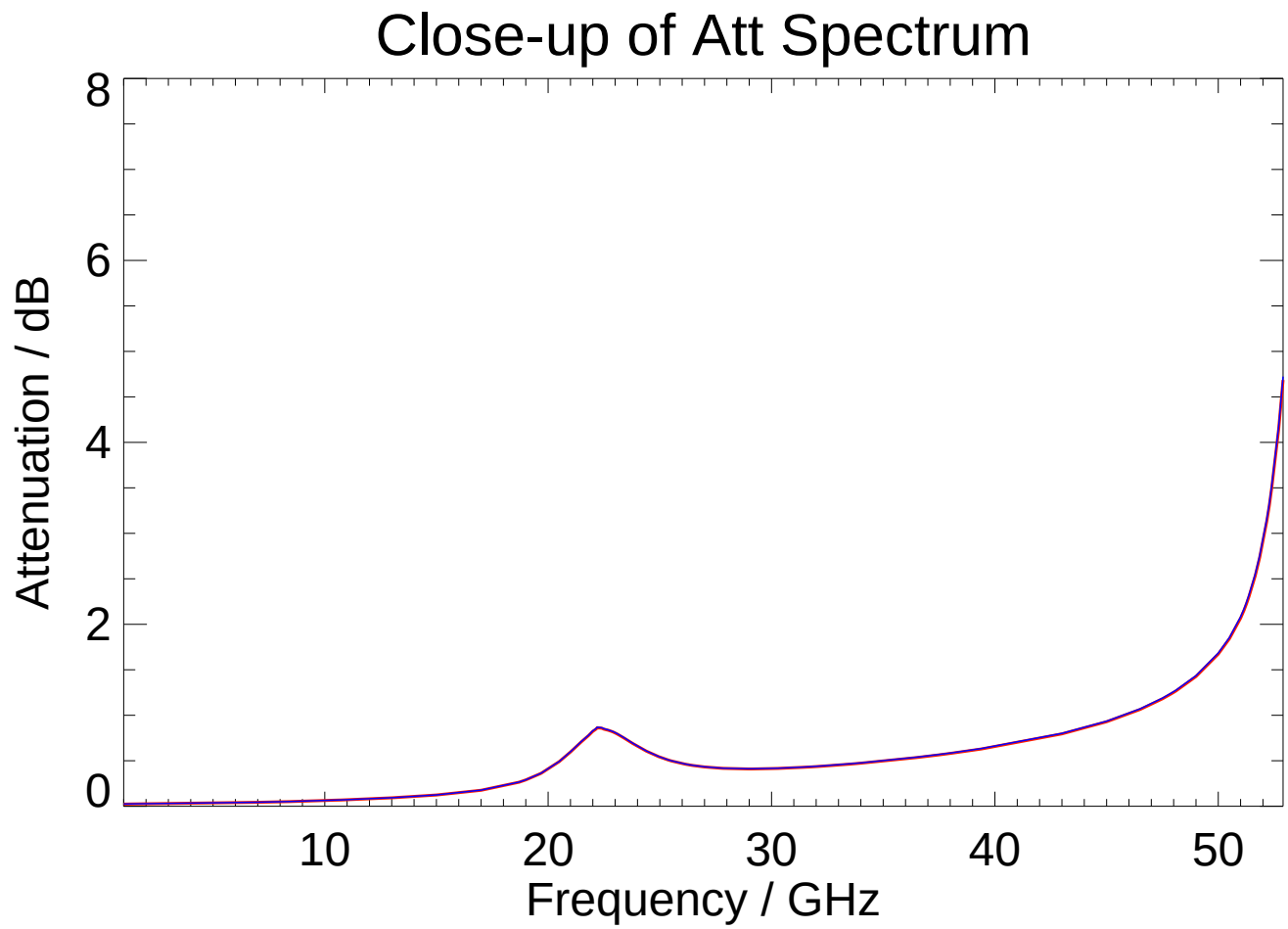
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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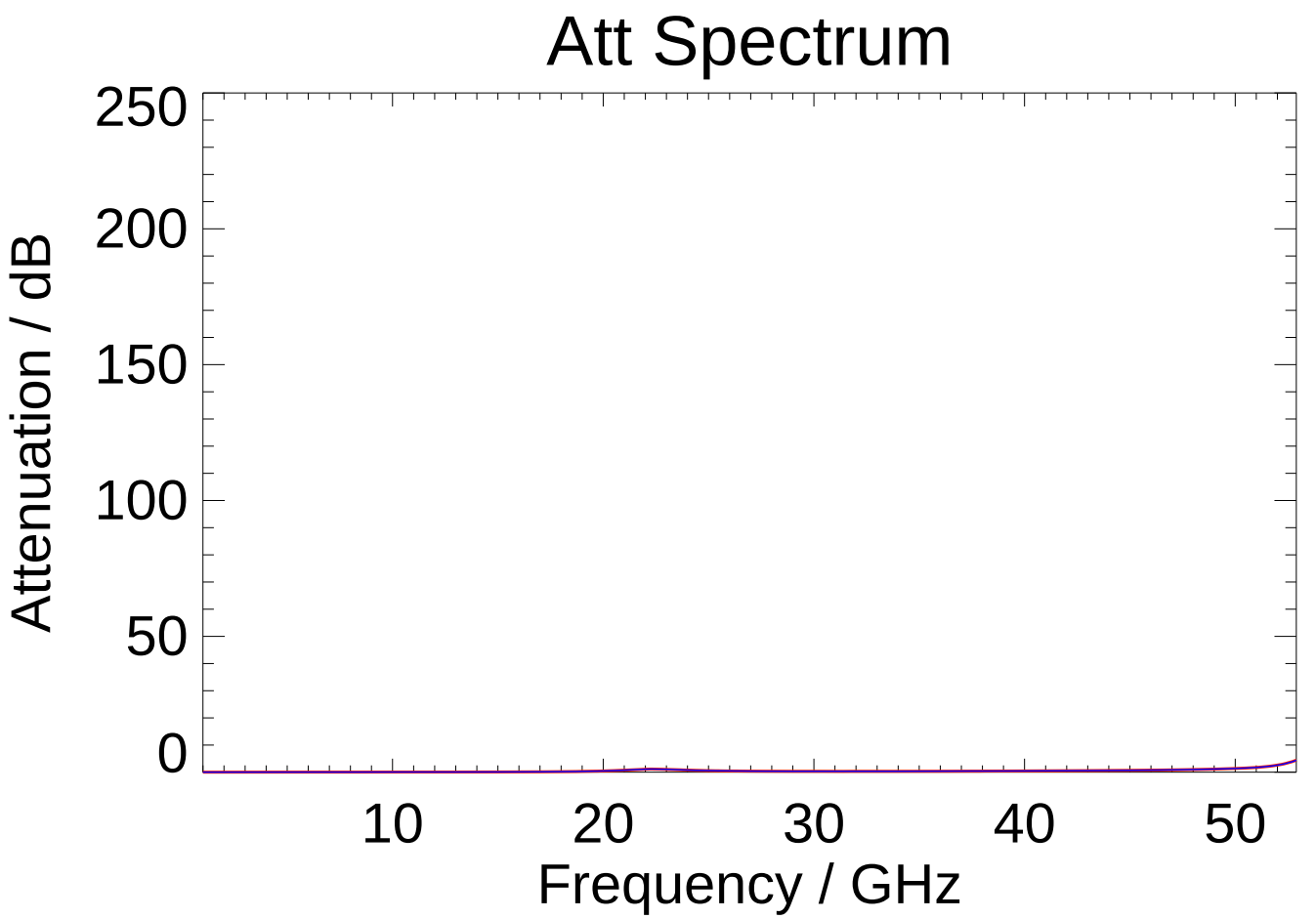
Frequency / GHz


Att Spectrum
Attenuation / dB
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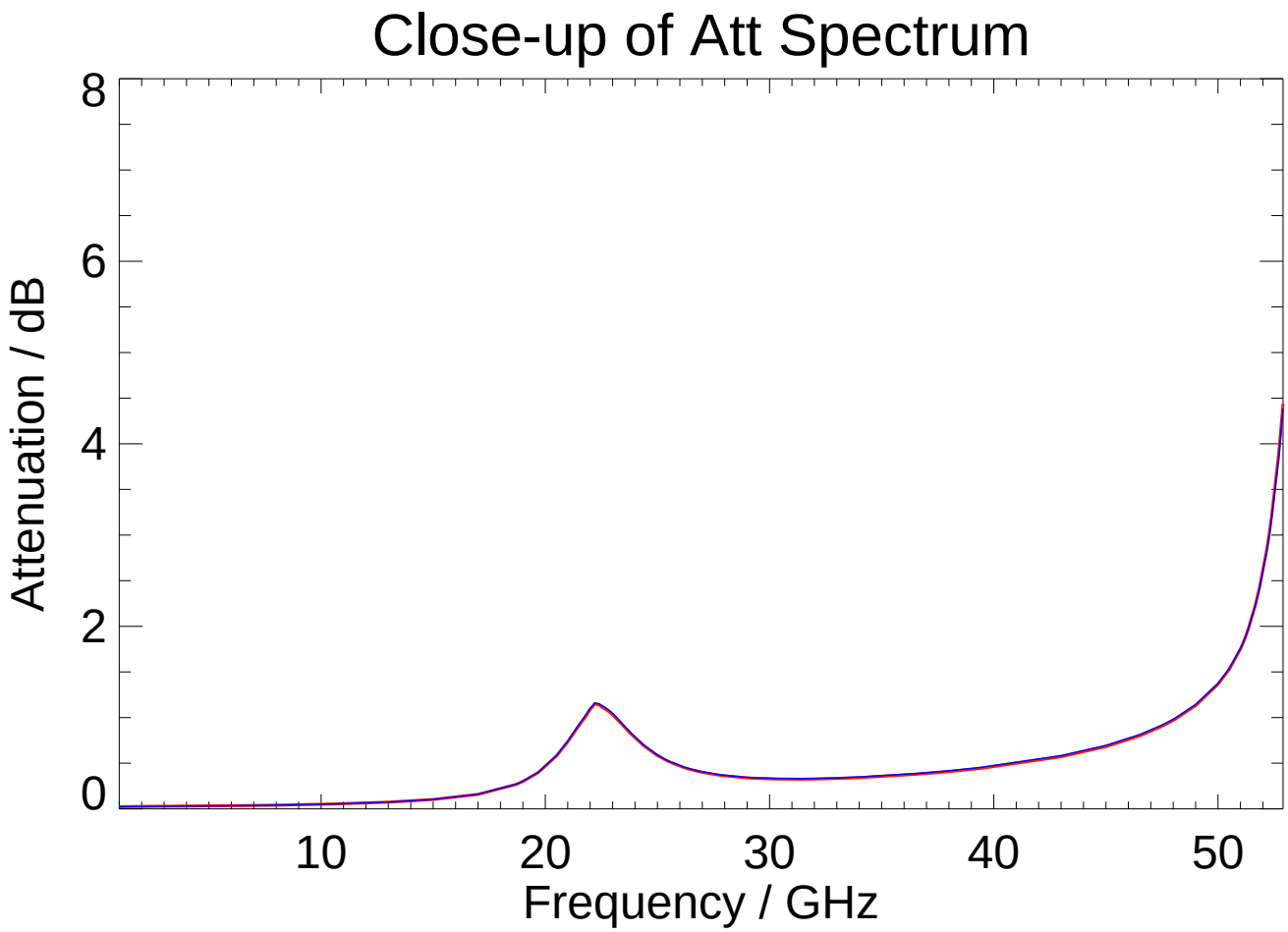
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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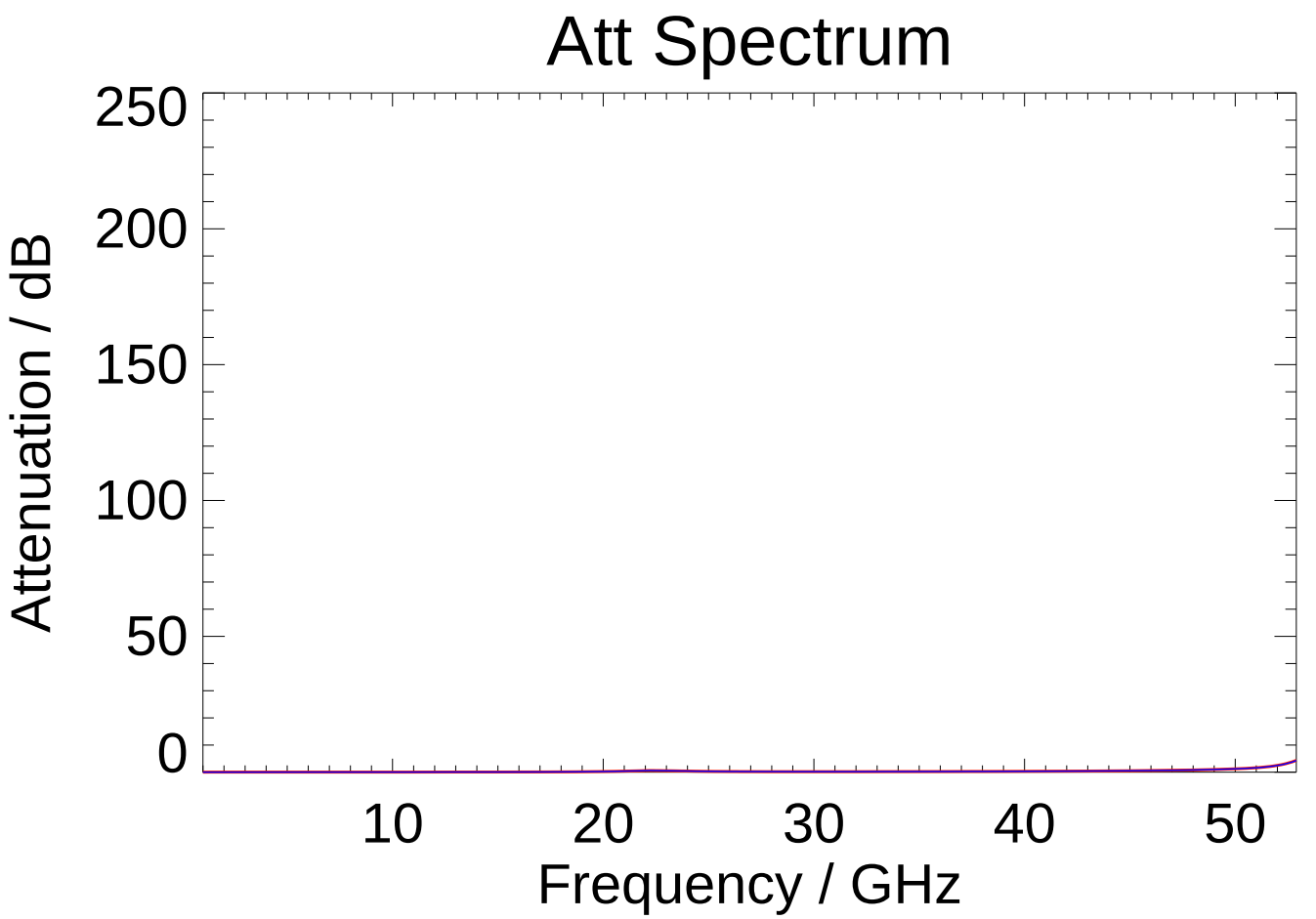
Frequency / GHz


Att Spectrum
Attenuation / dB
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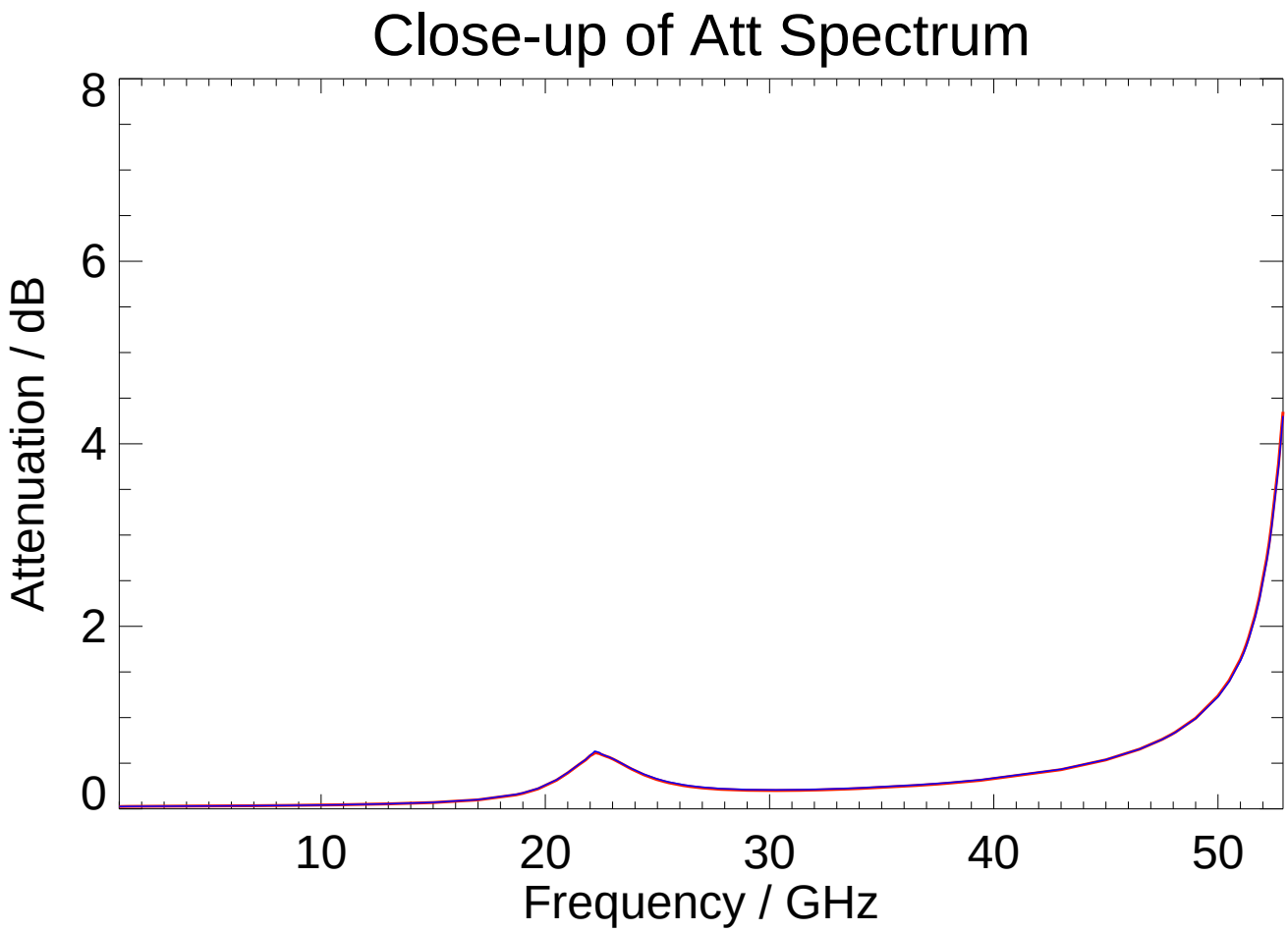
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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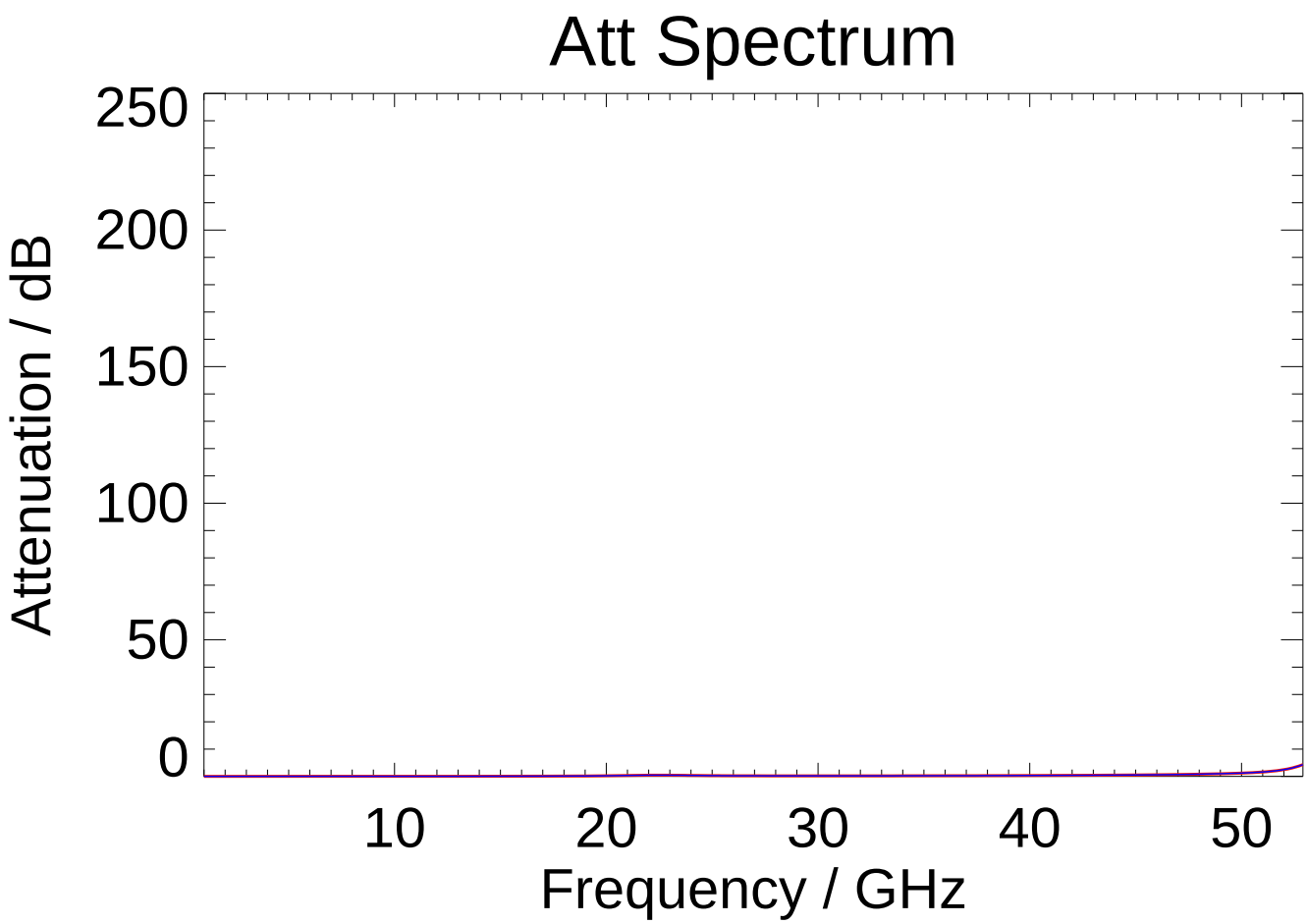
Frequency / GHz


Att Spectrum
Attenuation / dB
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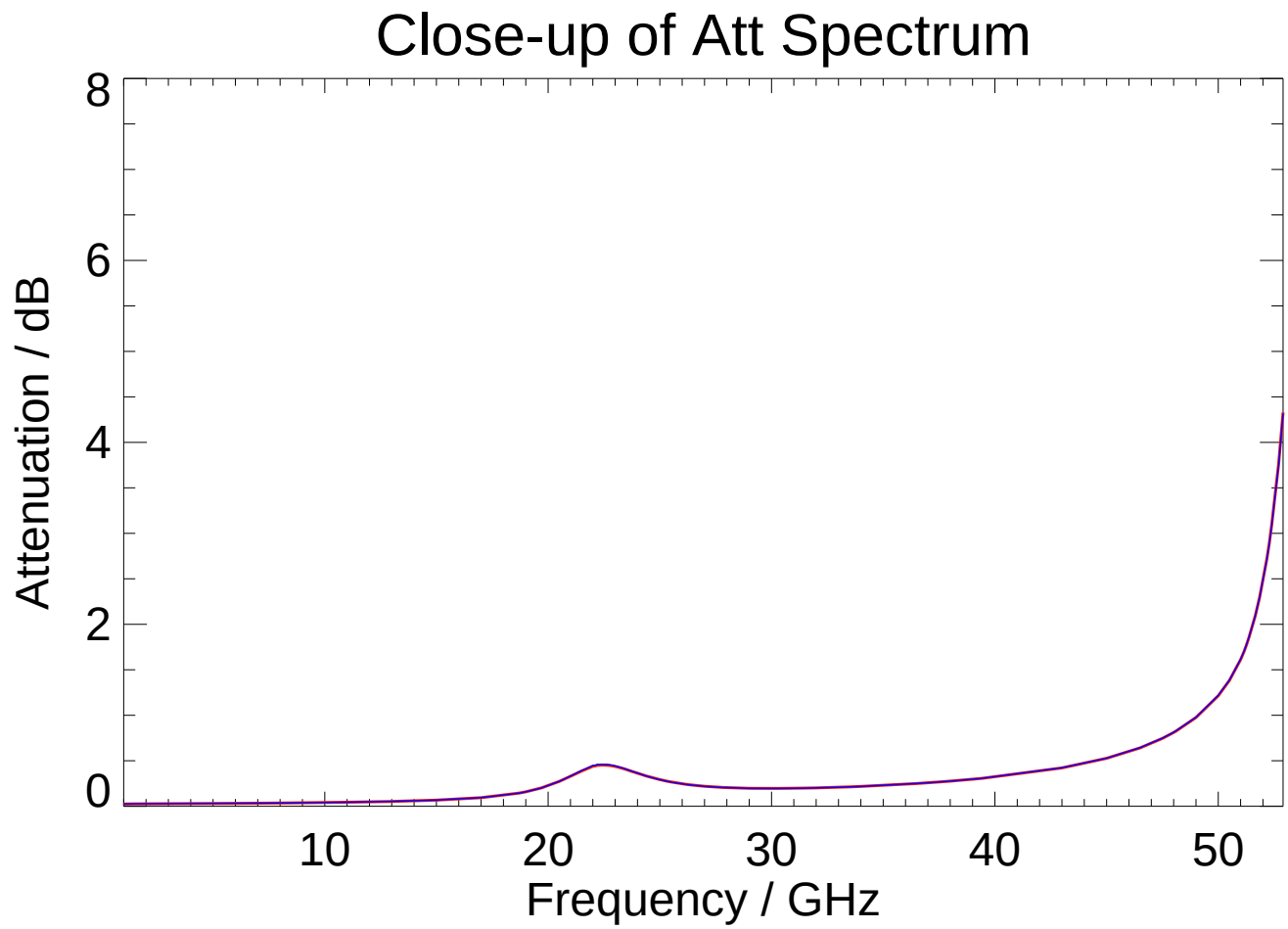
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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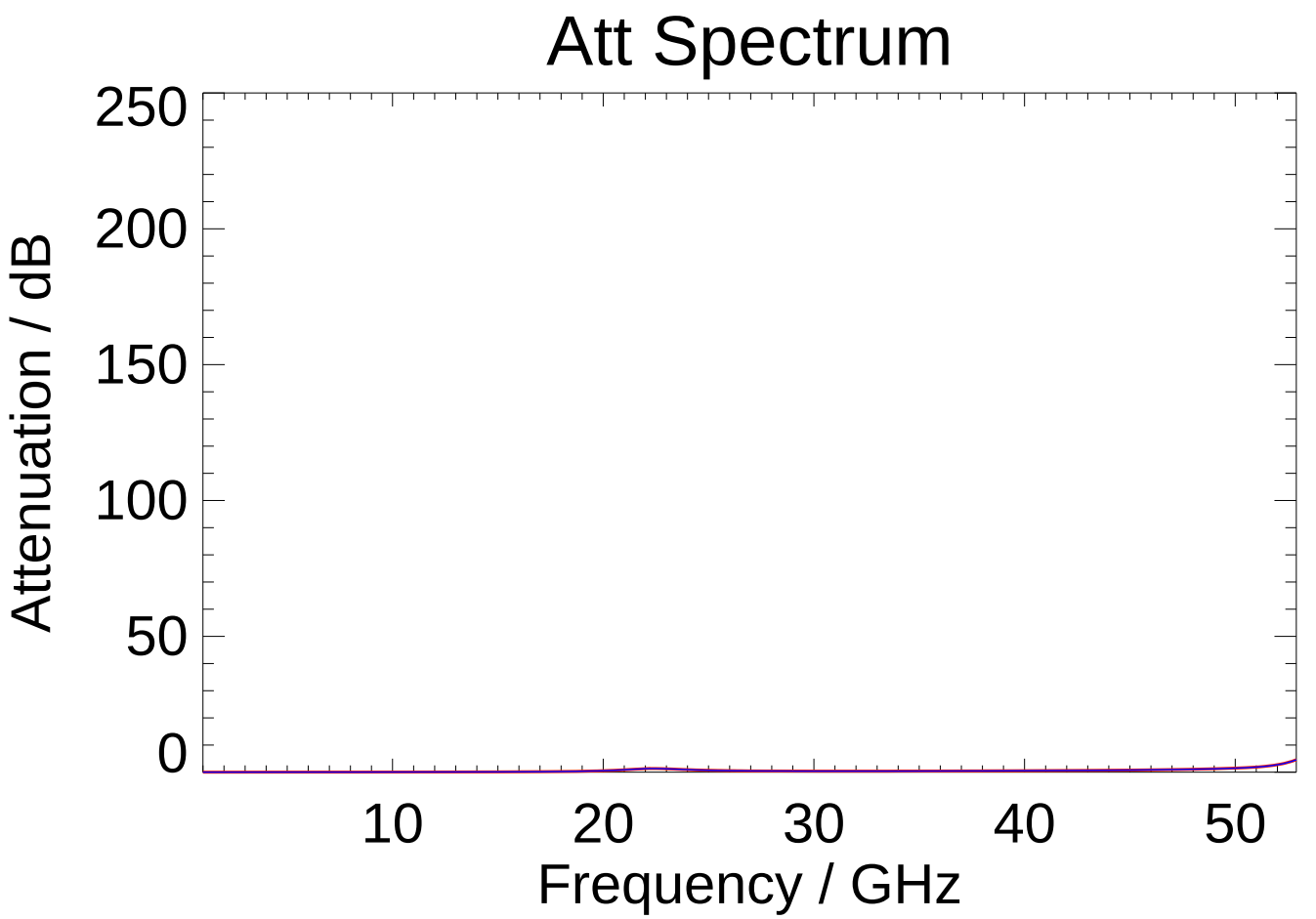
Frequency / GHz


Att Spectrum
Attenuation / dB
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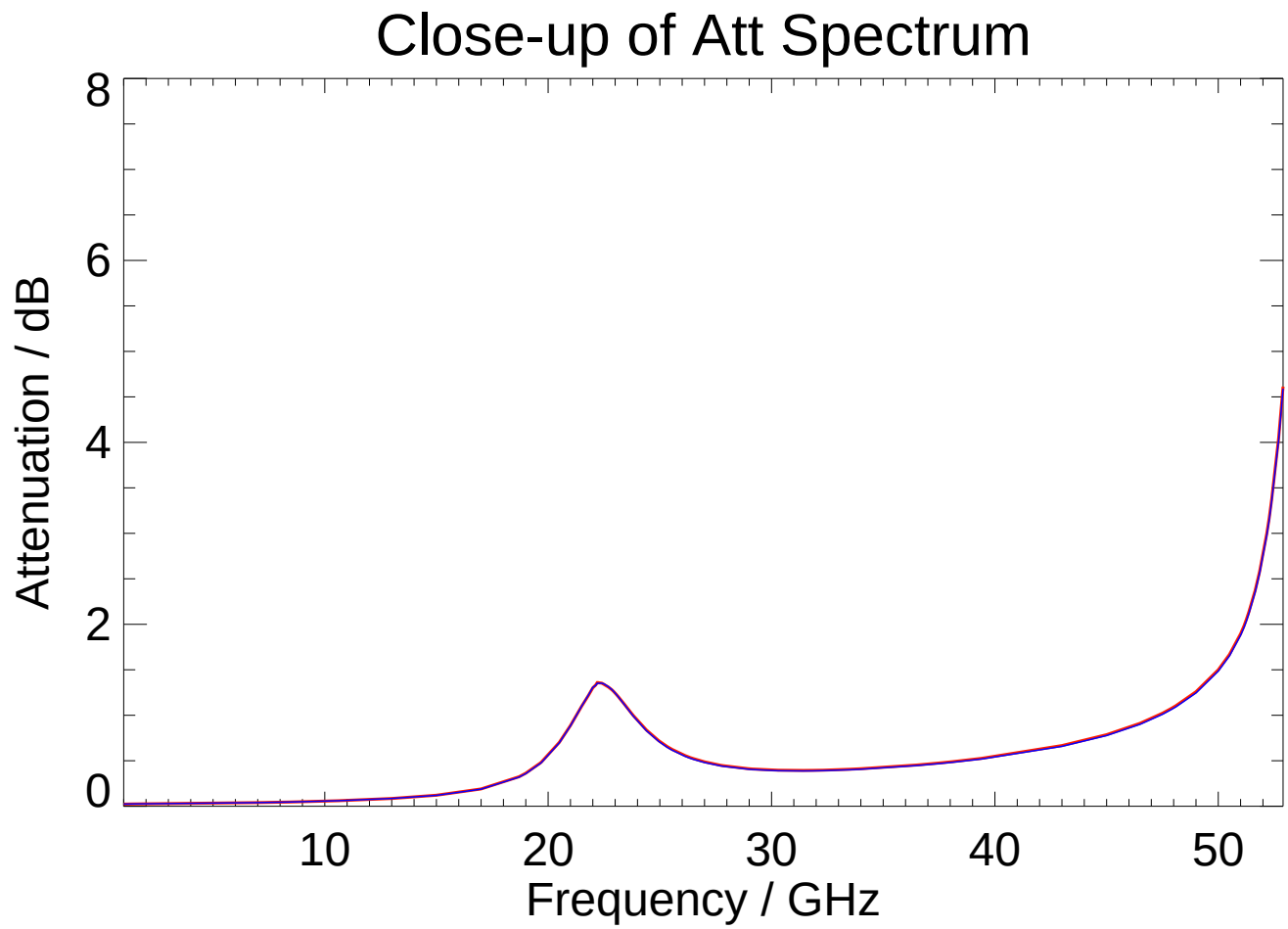
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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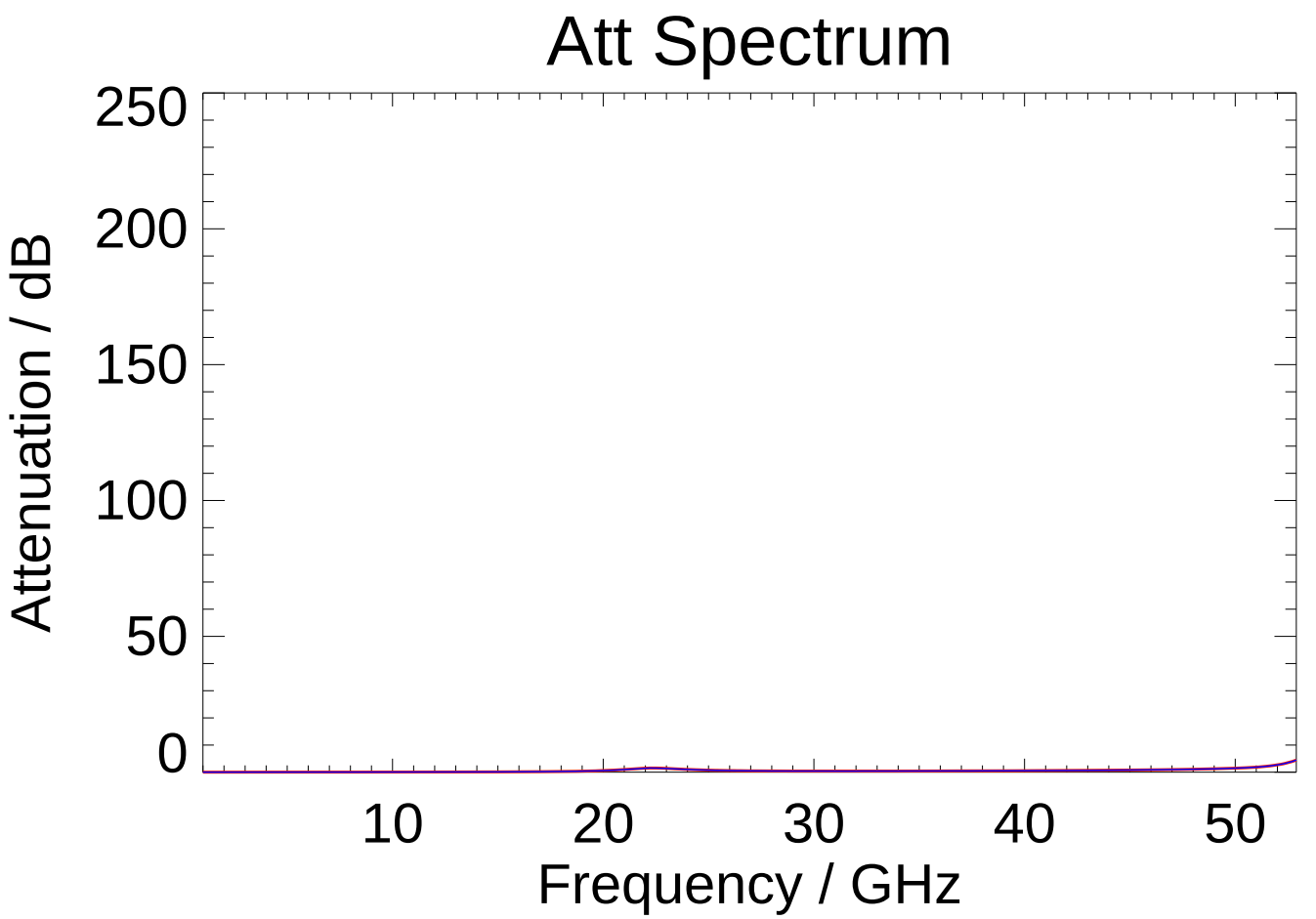
Frequency / GHz


Att Spectrum
Attenuation / dB
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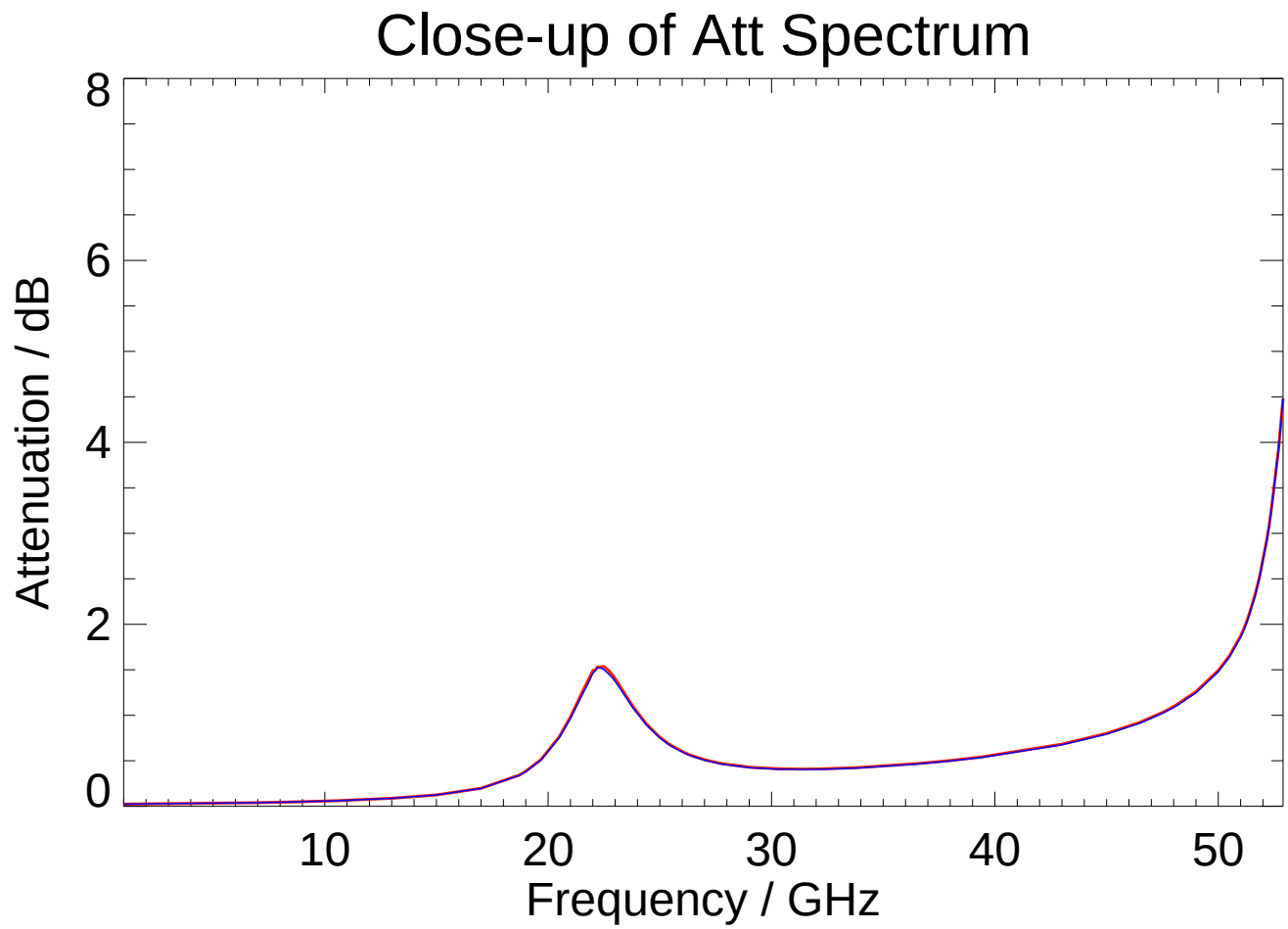
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
6
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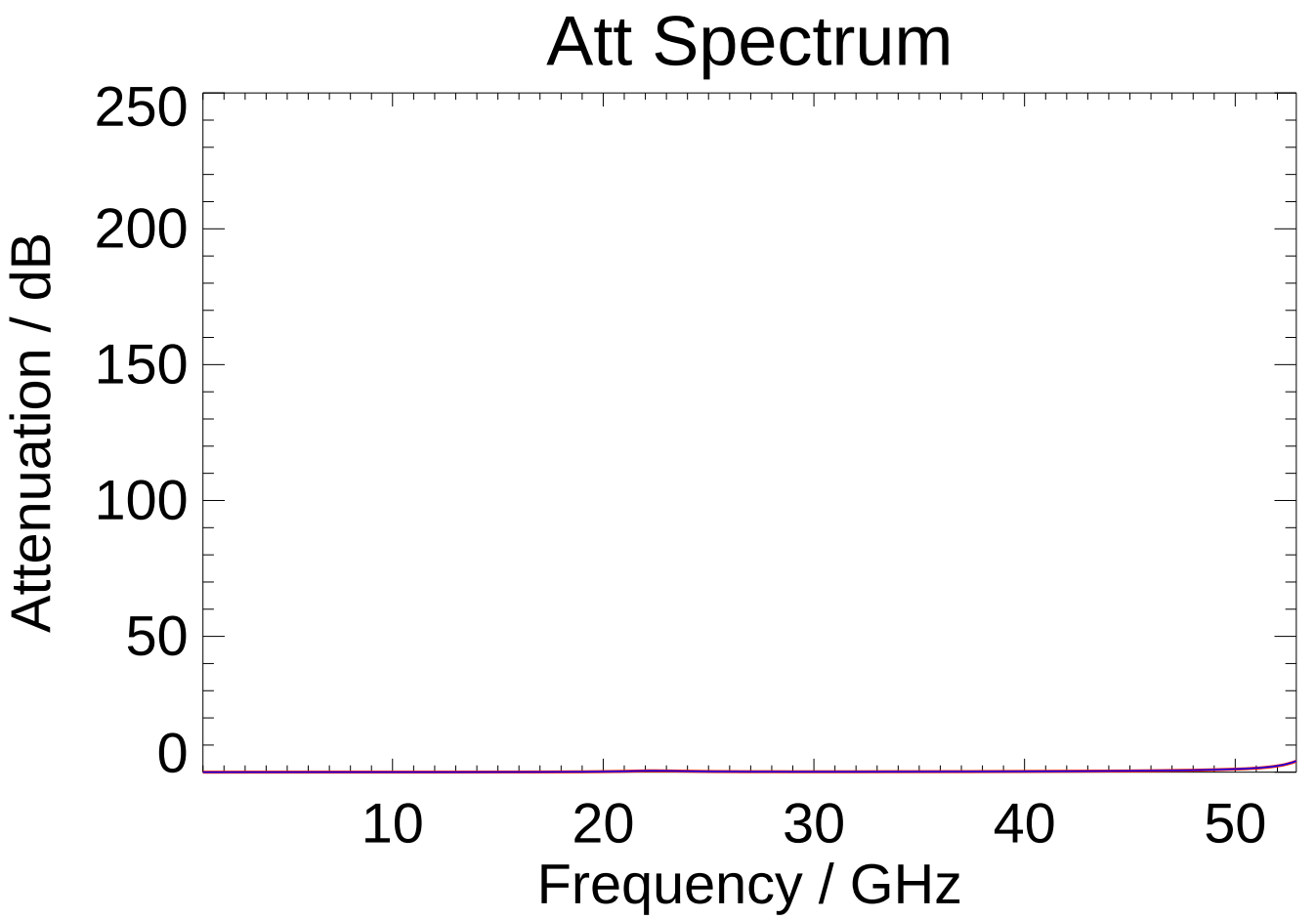
Frequency / GHz


Att Spectrum
Attenuation / dB
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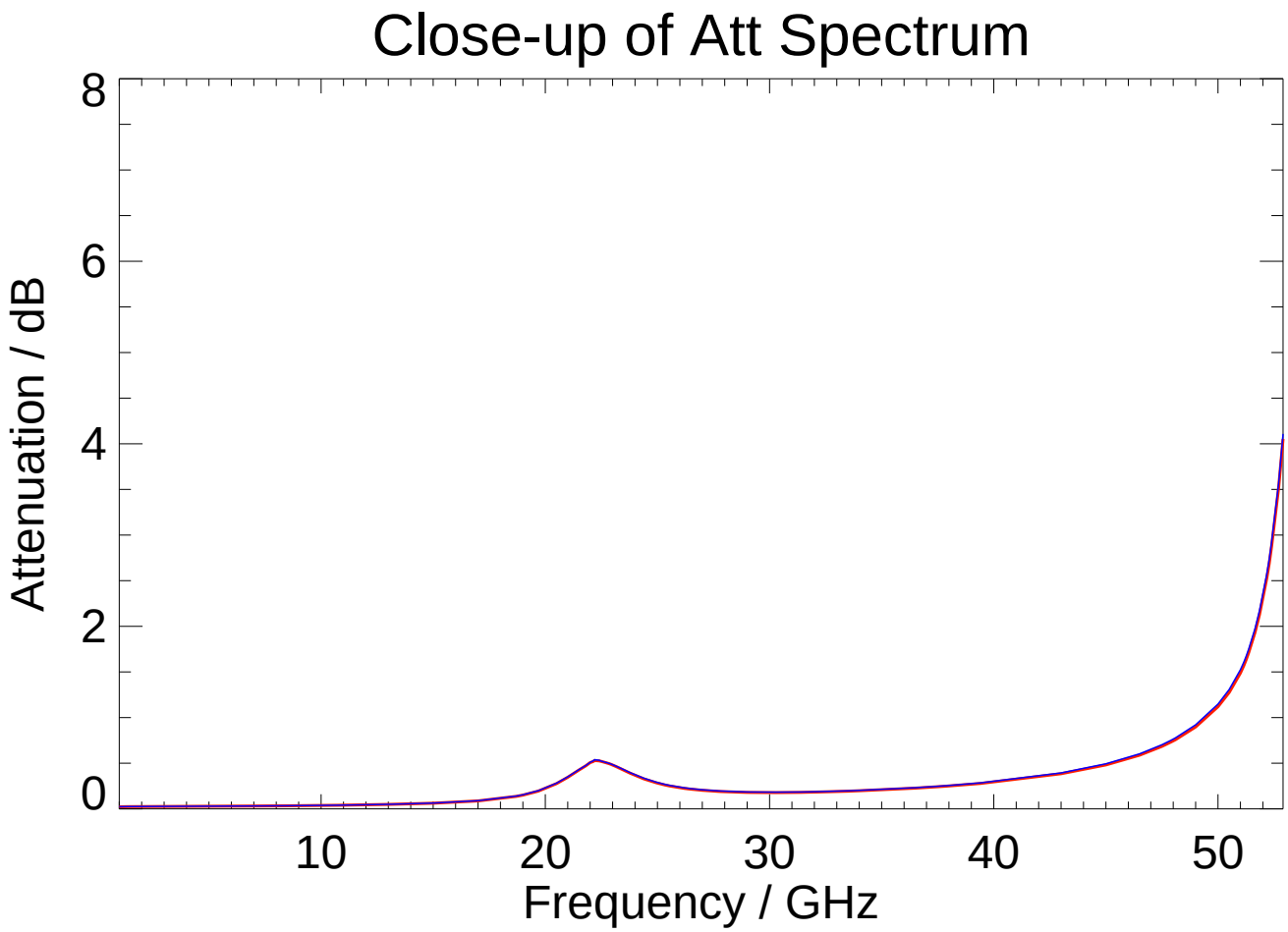
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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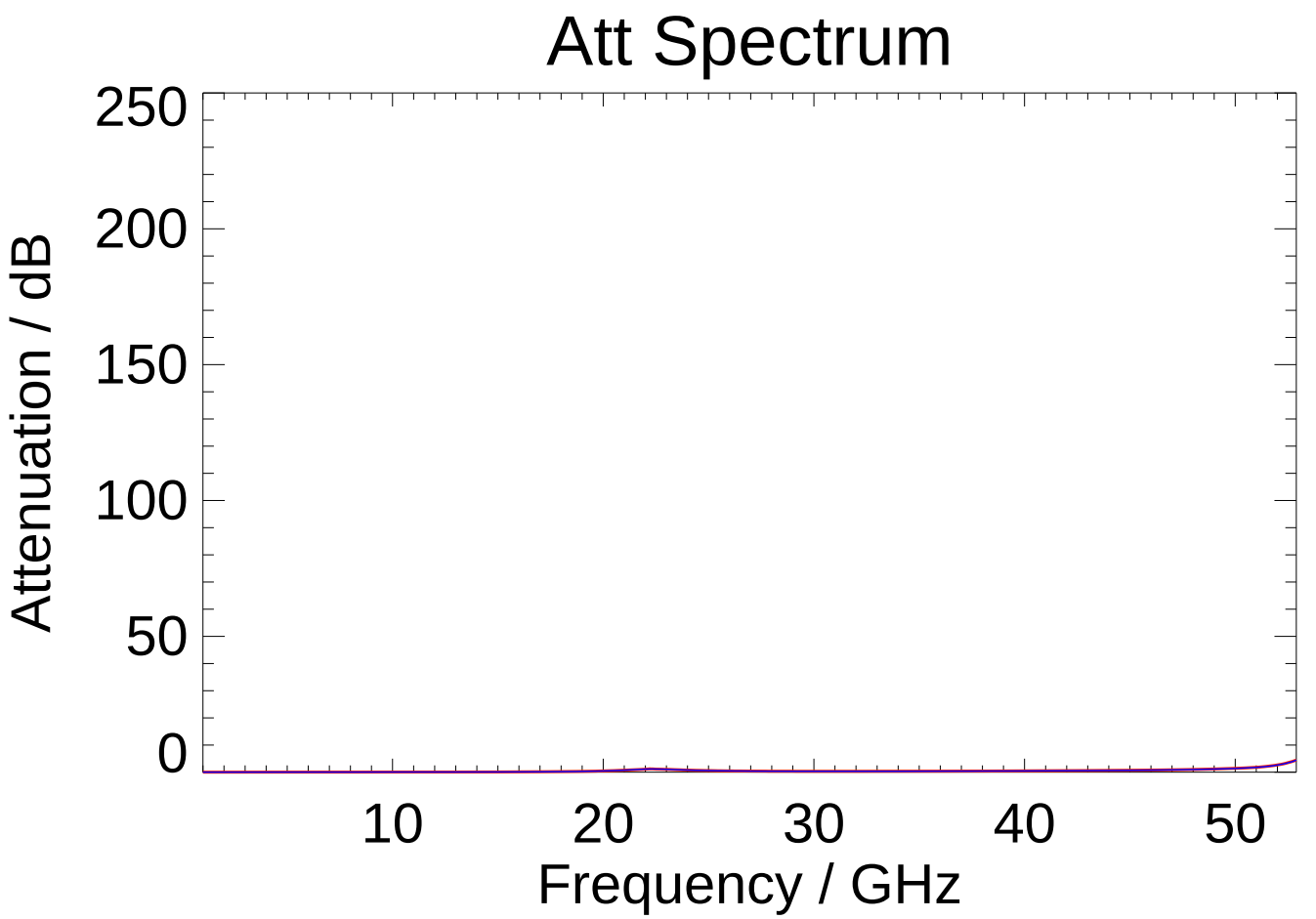
Frequency / GHz


Att Spectrum
Attenuation / dB
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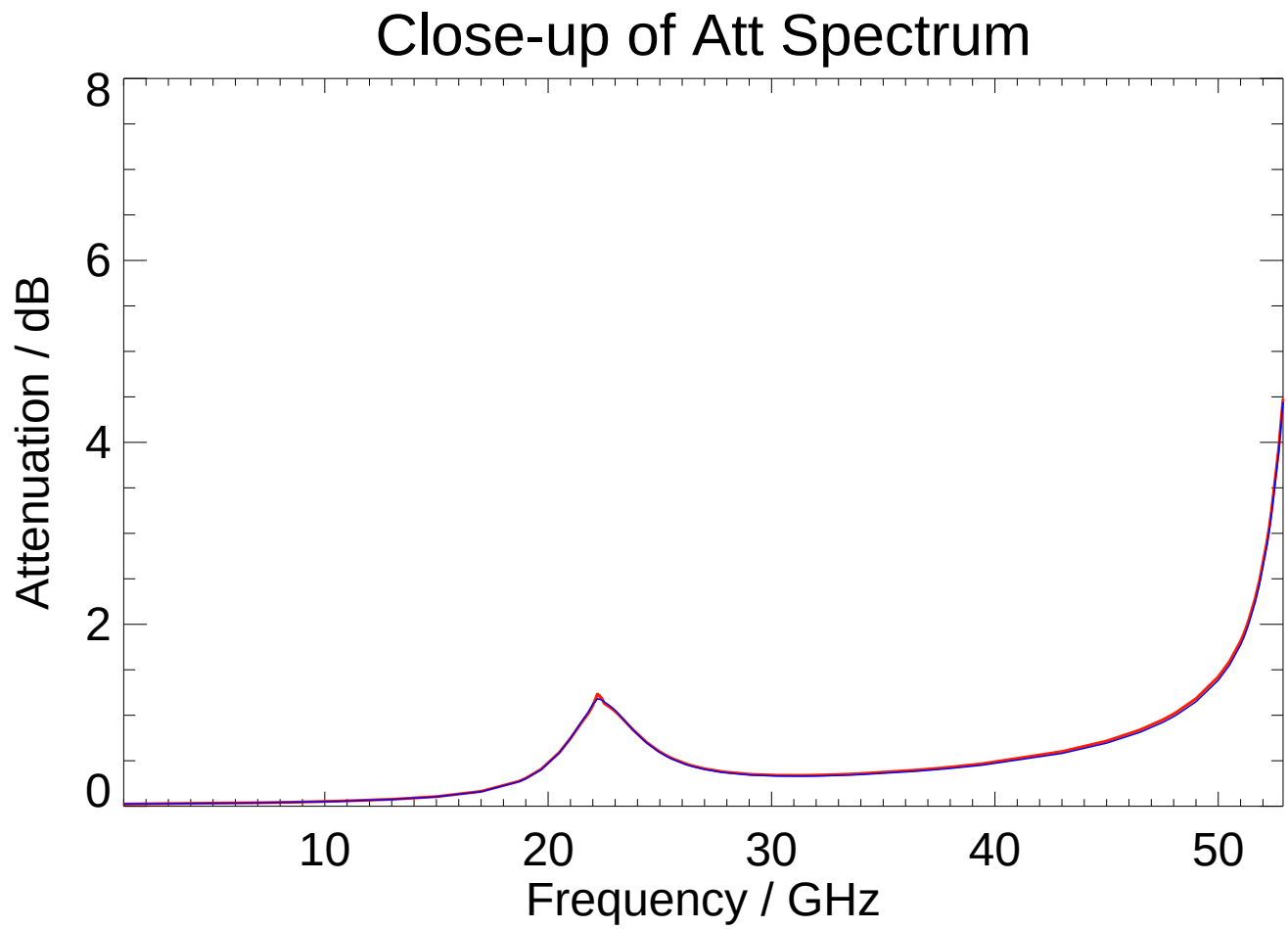
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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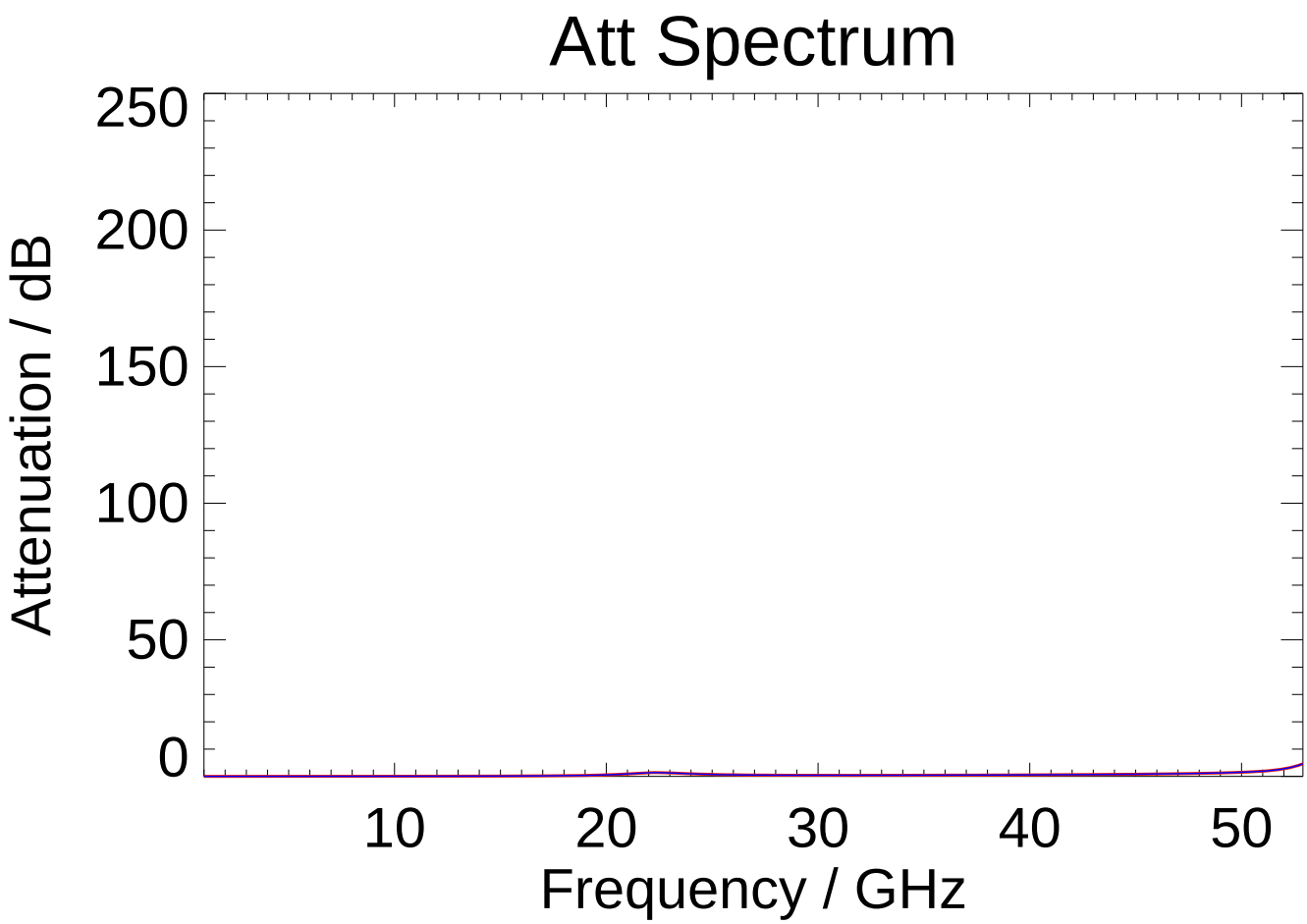
Frequency / GHz


Att Spectrum
Attenuation / dB
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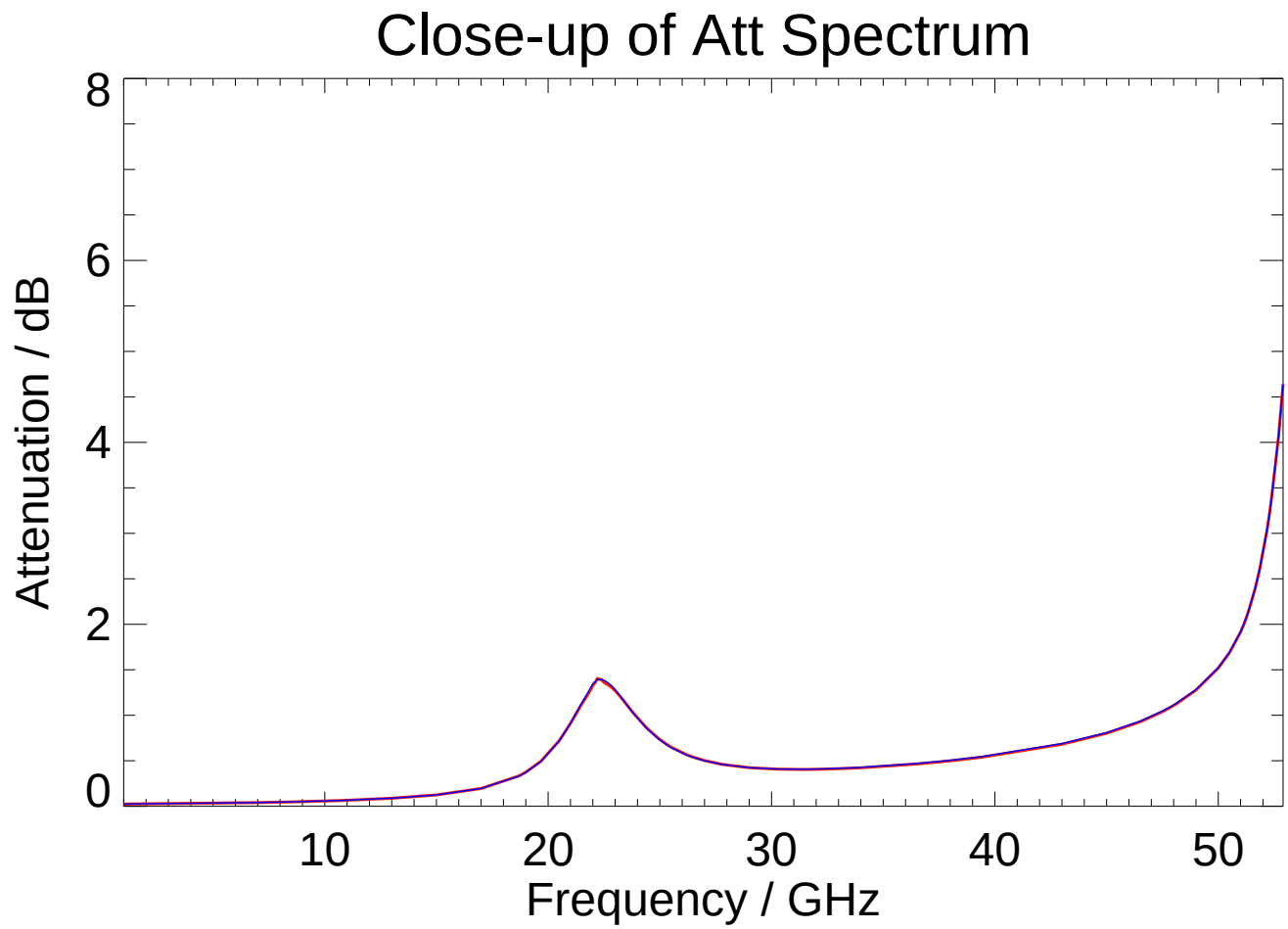
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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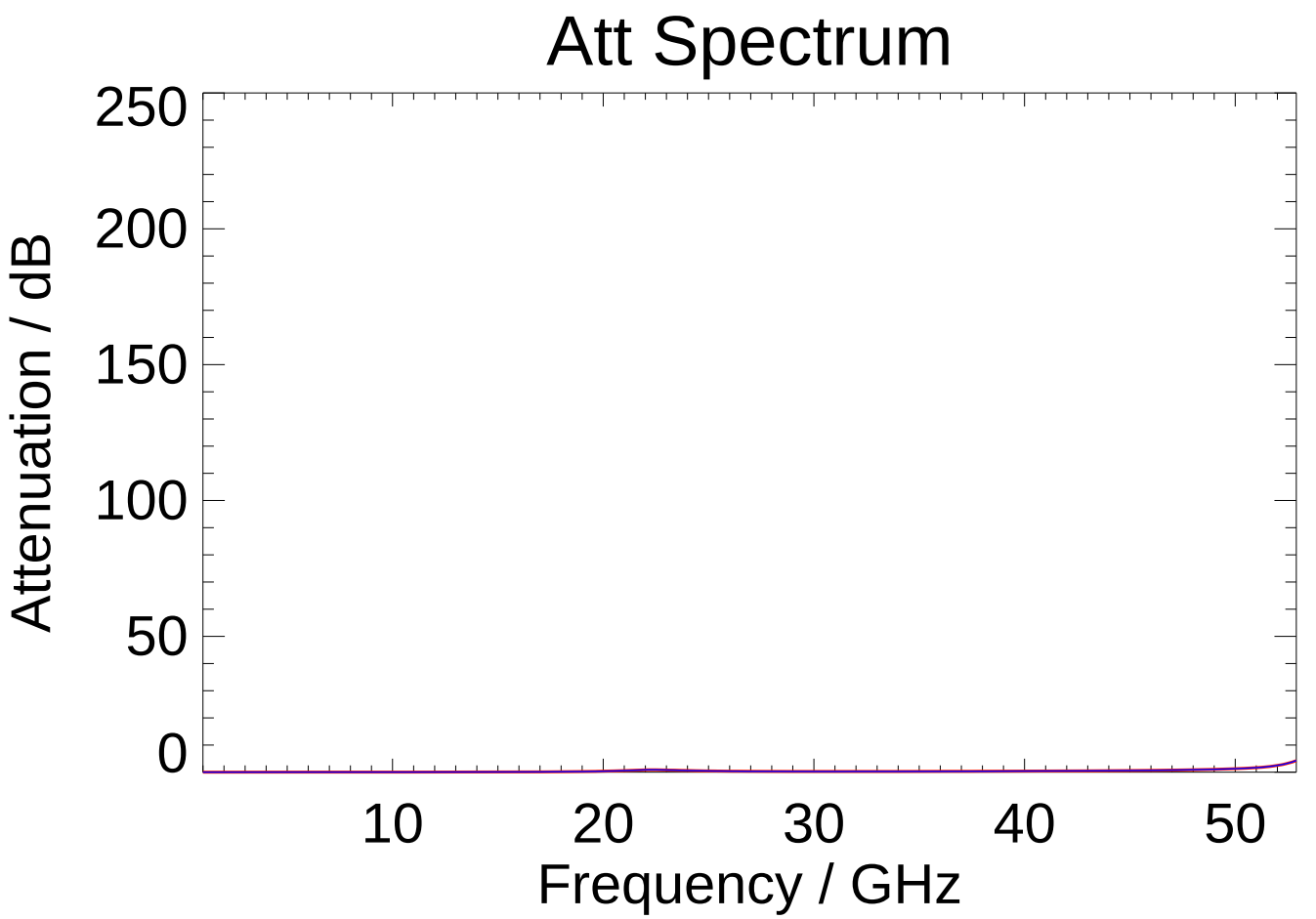
Frequency / GHz


Att Spectrum
Attenuation / dB
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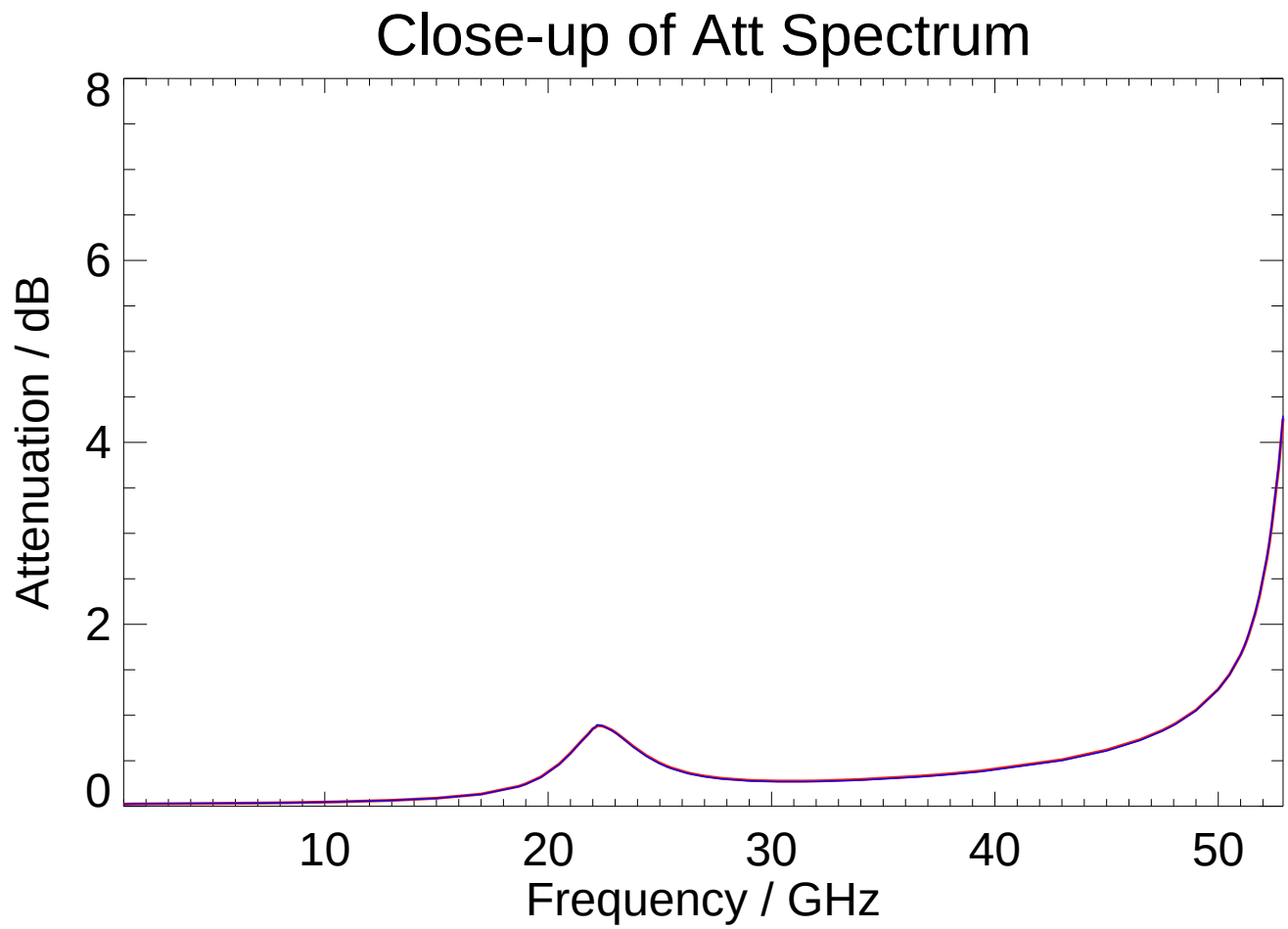
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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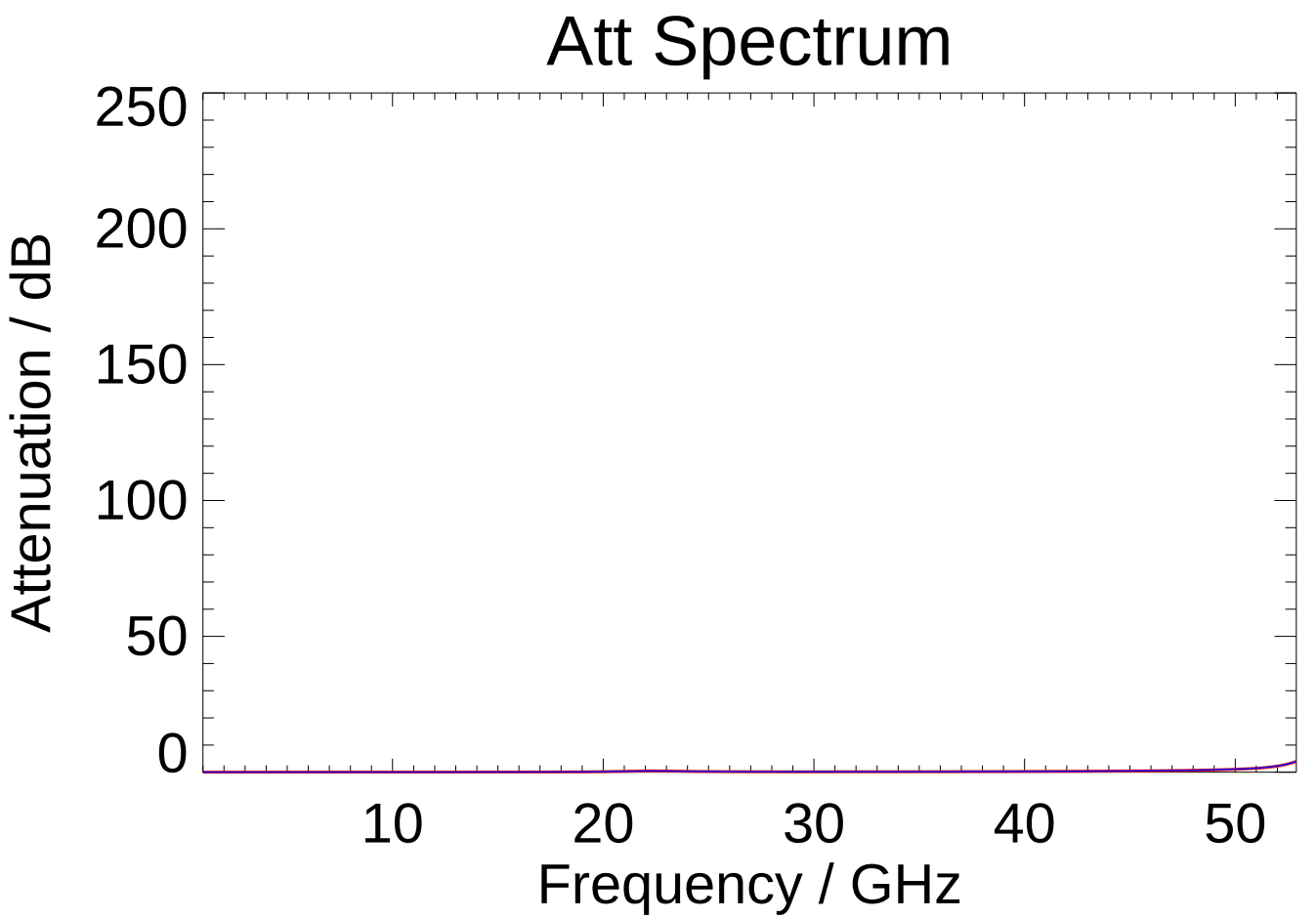
Frequency / GHz


Att Spectrum
Attenuation / dB
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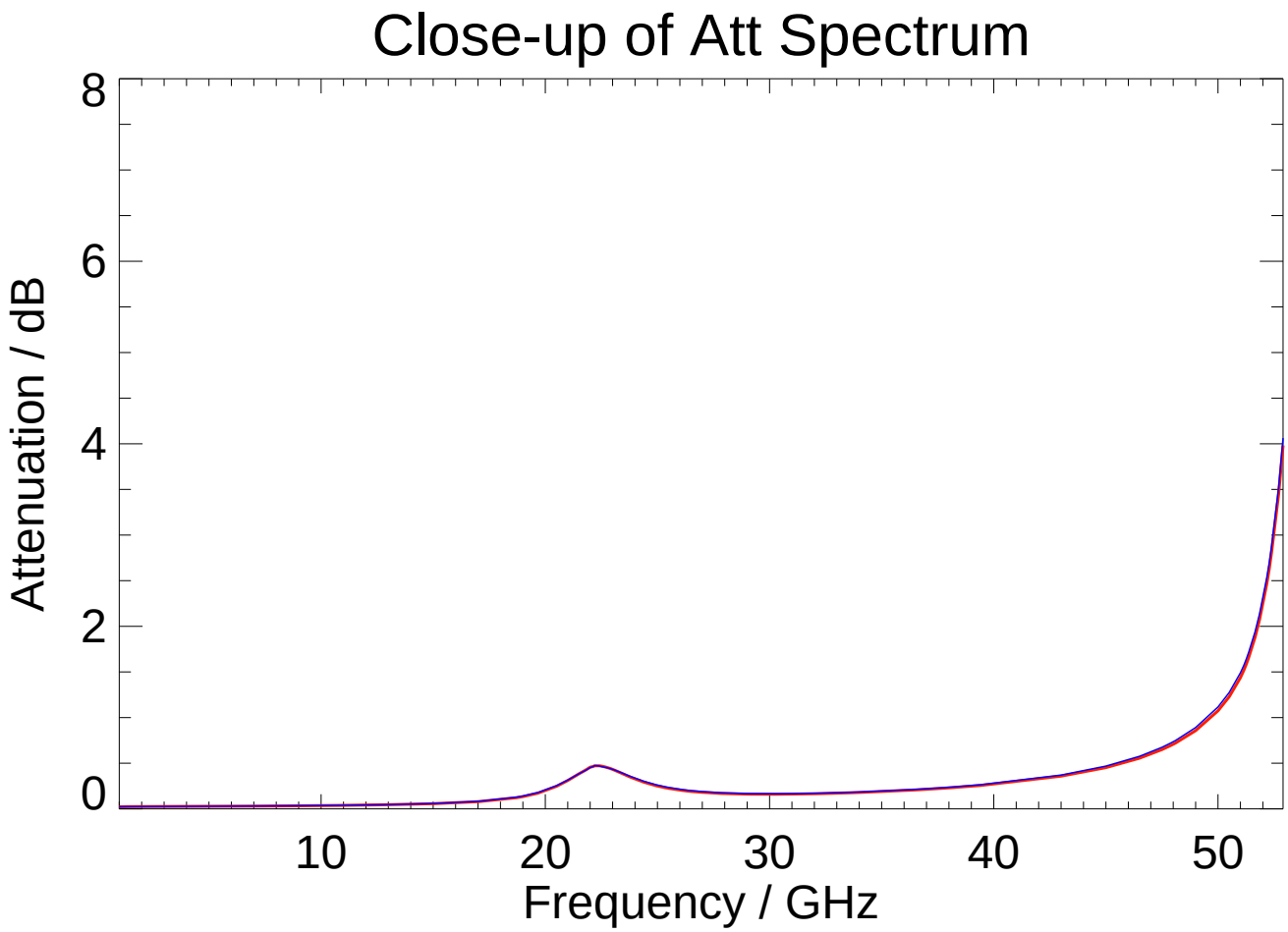
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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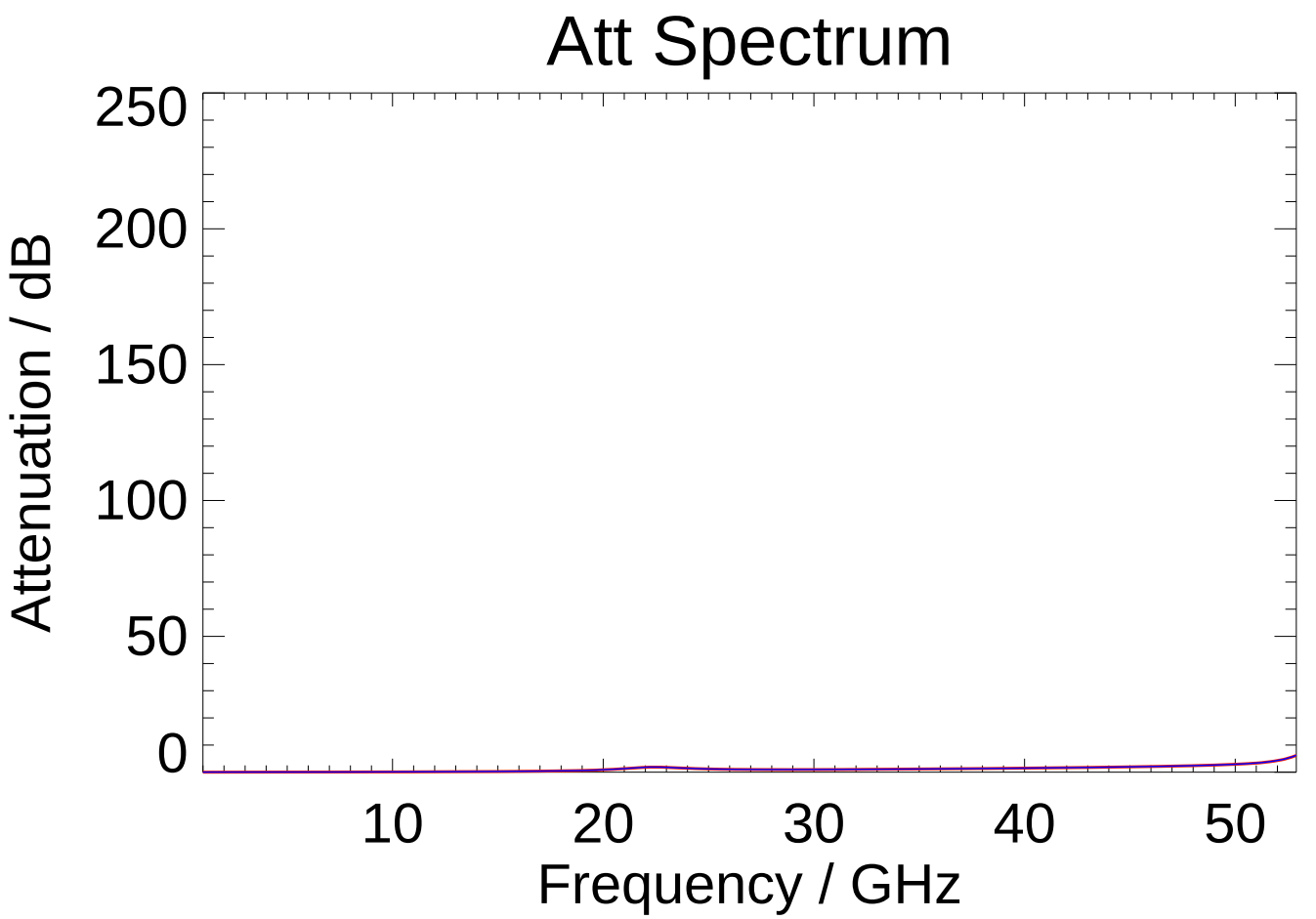
Frequency / GHz


Att Spectrum
Attenuation / dB
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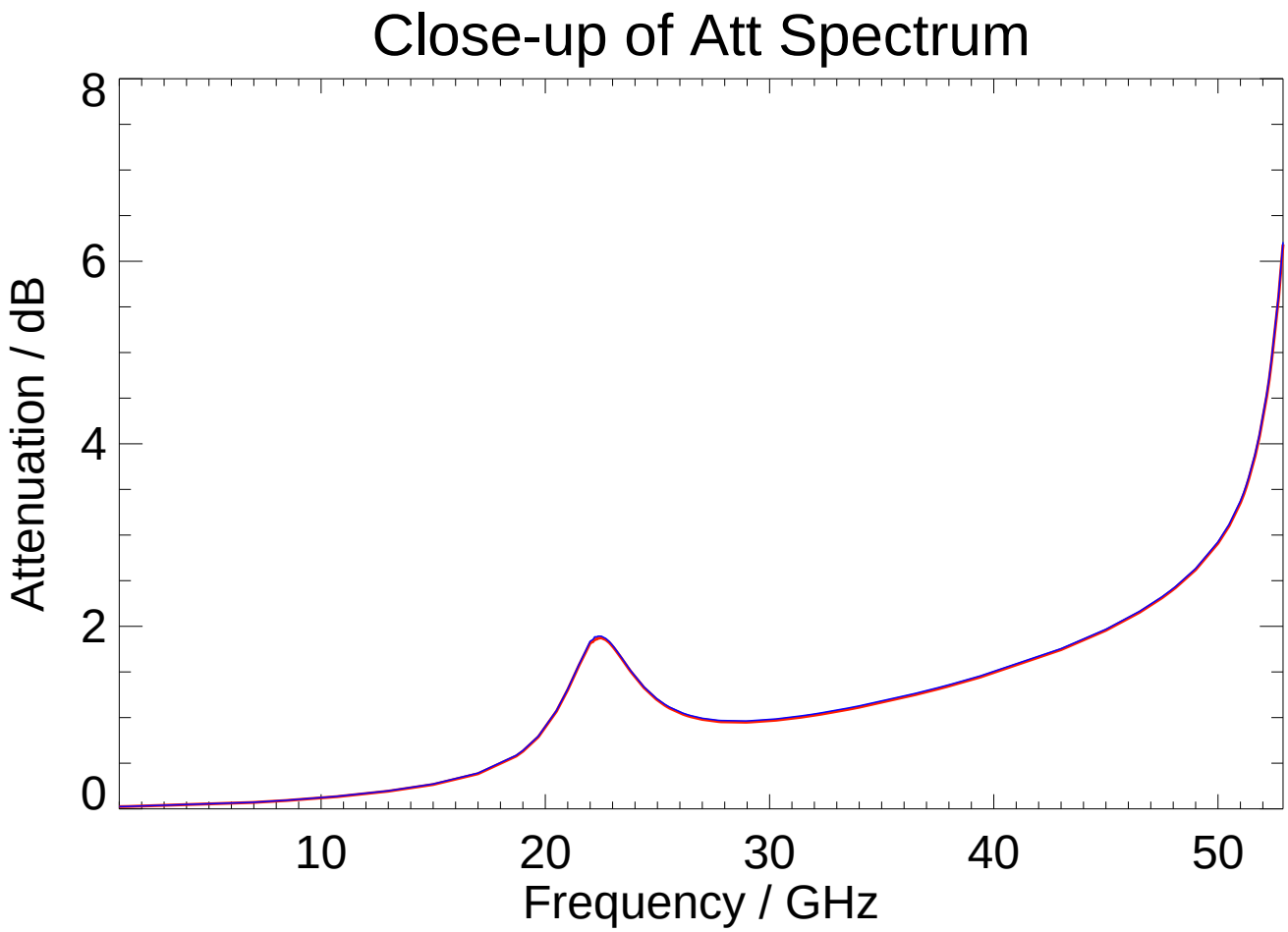
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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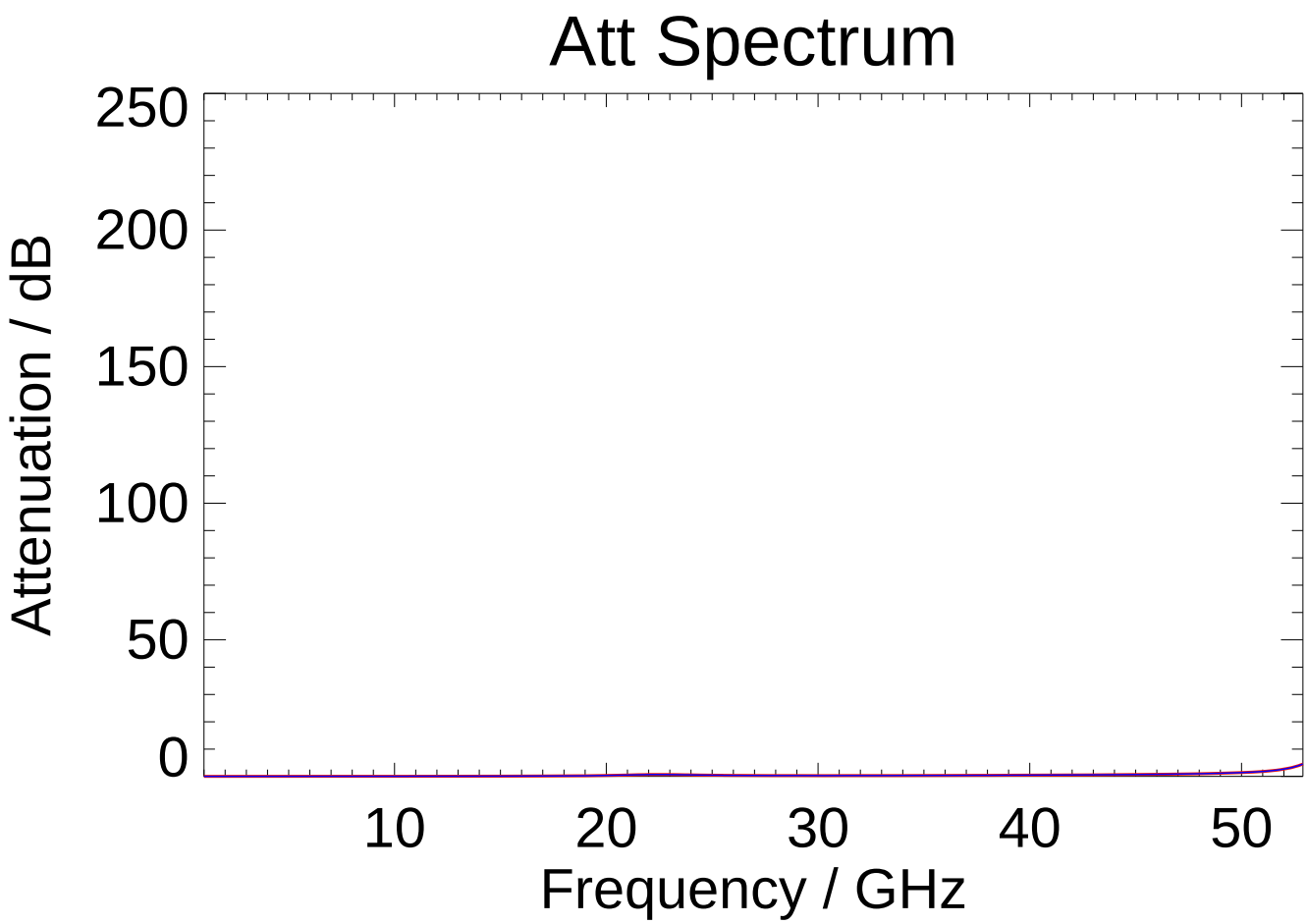
Frequency / GHz


Att Spectrum
Attenuation / dB
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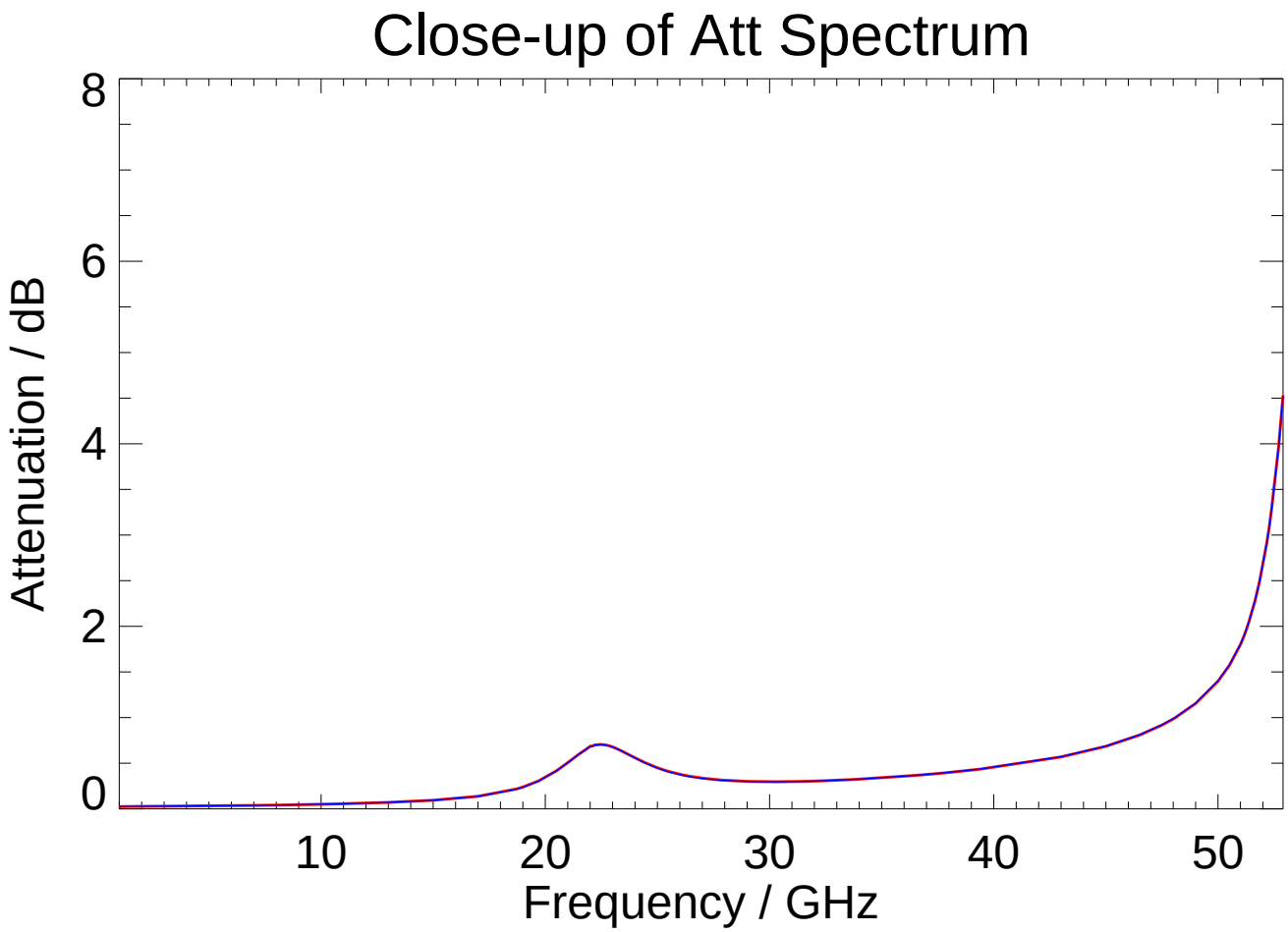
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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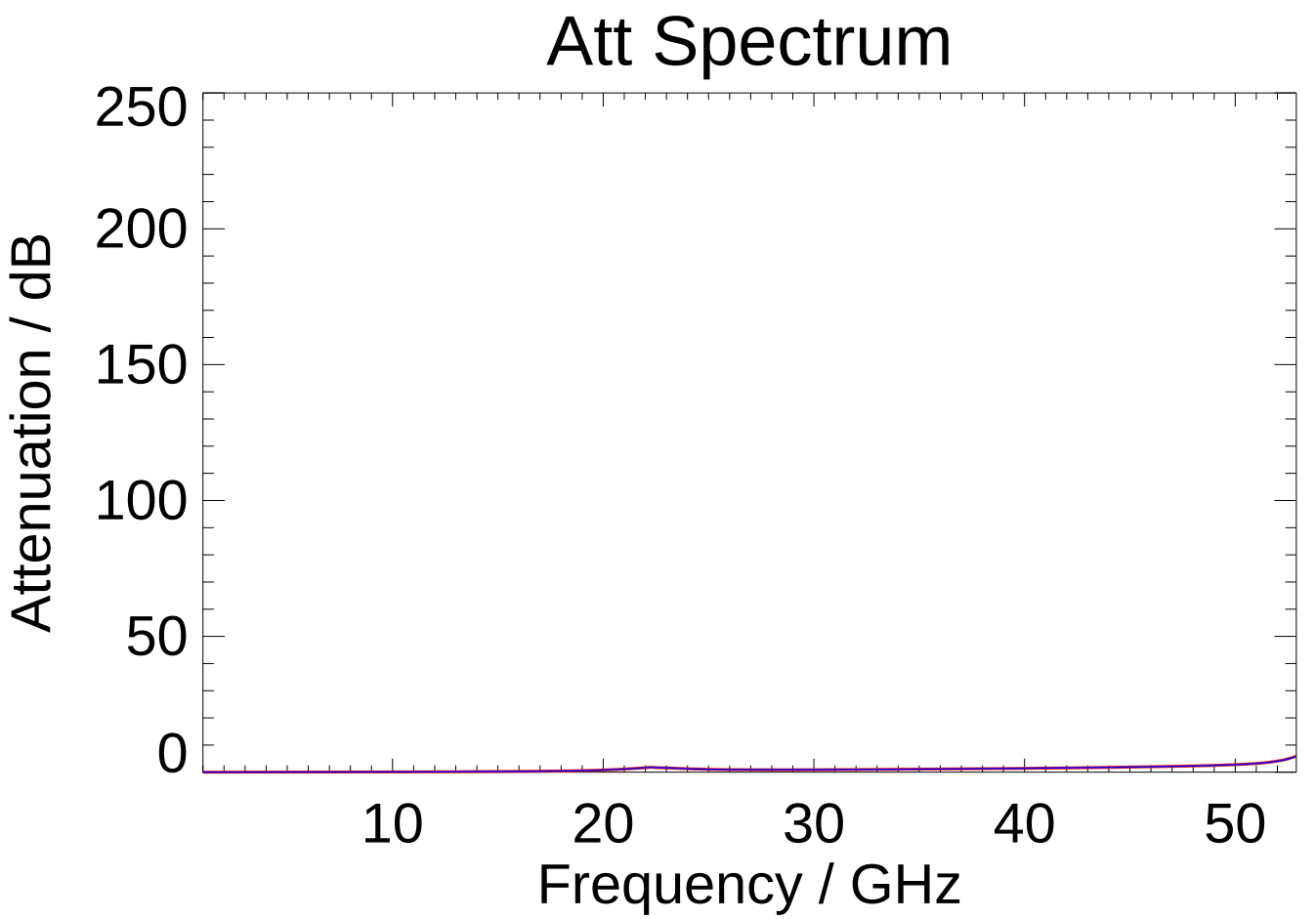
Frequency / GHz


Att Spectrum
Attenuation / dB
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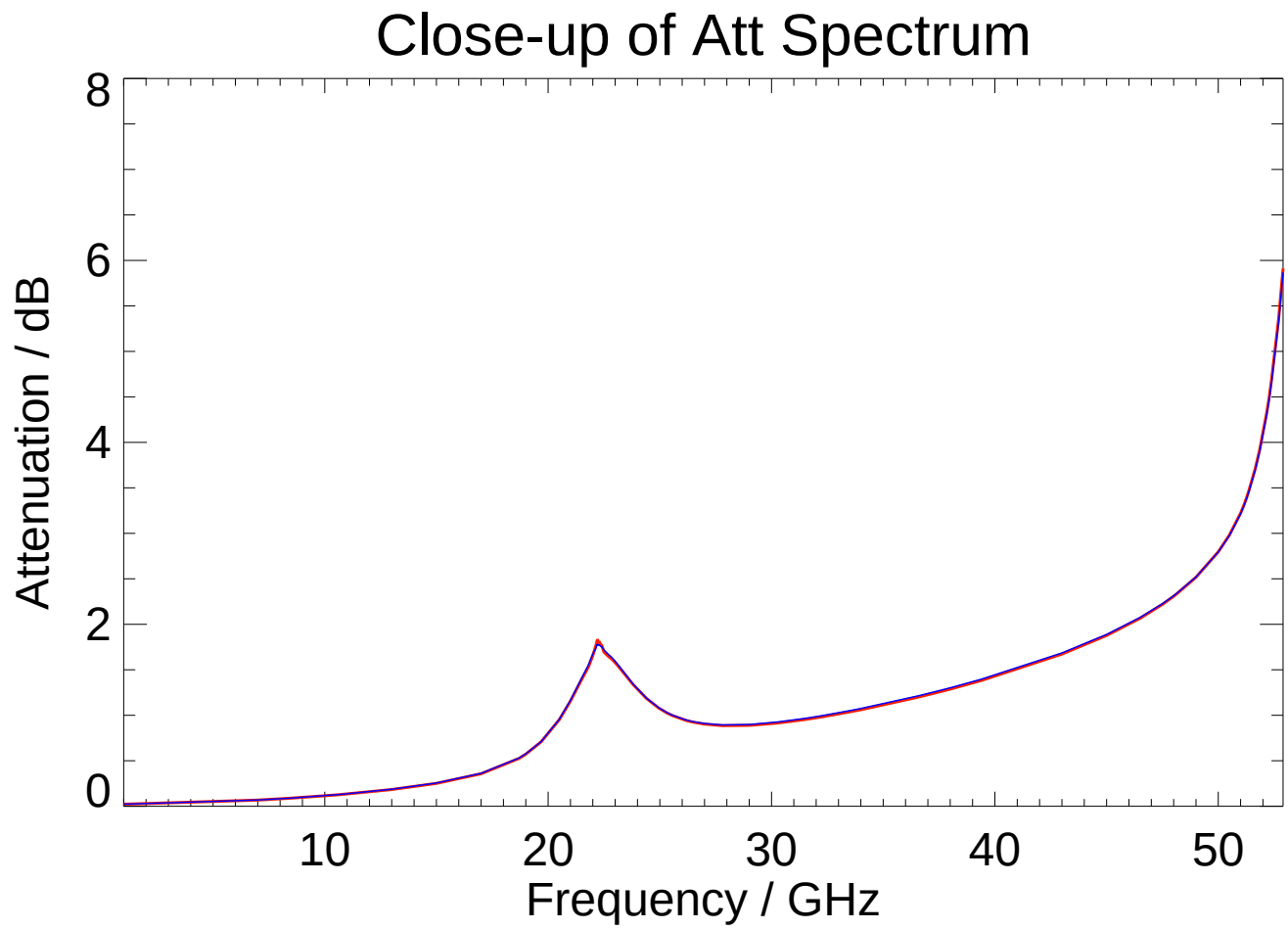
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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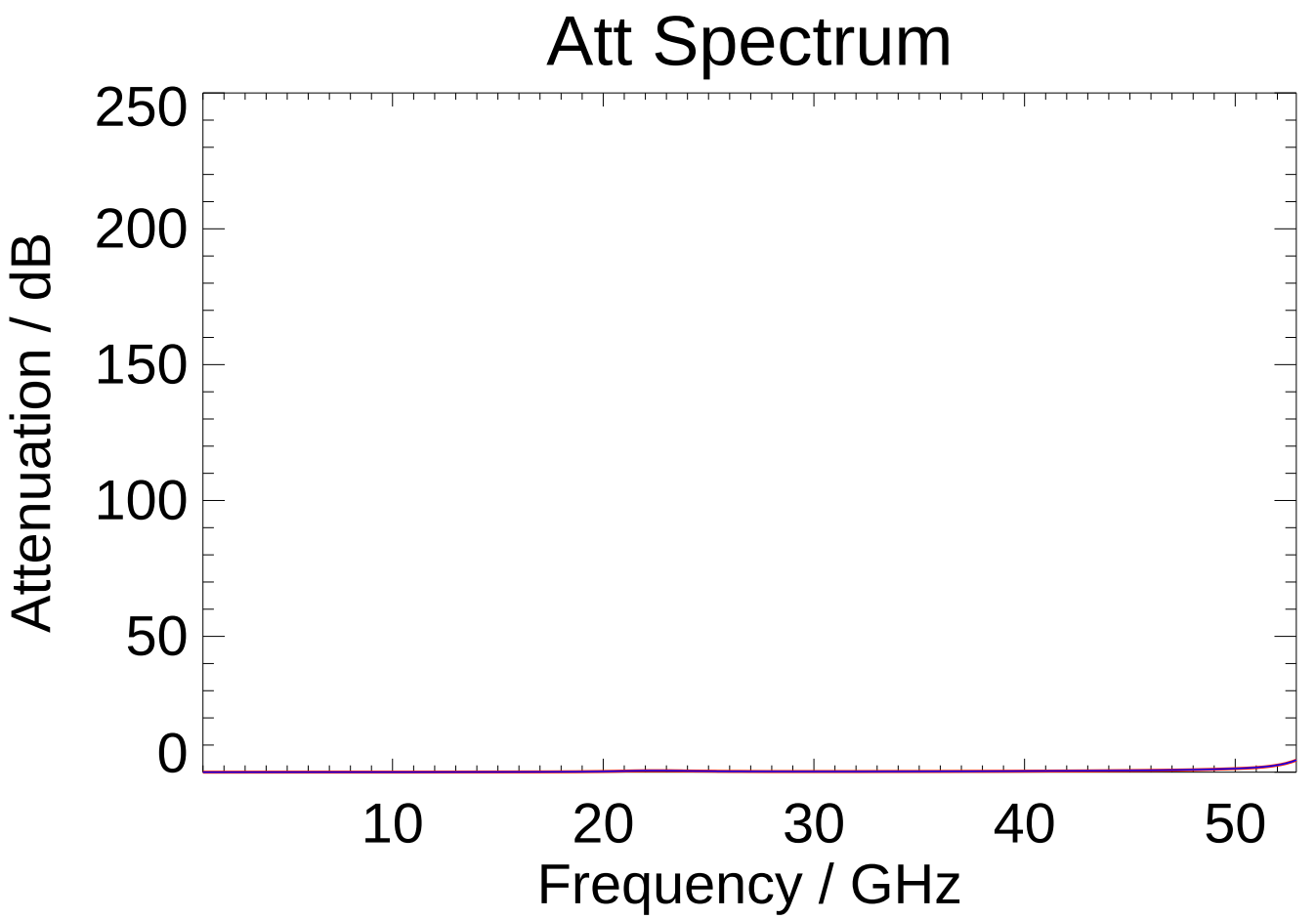
Frequency / GHz


Att Spectrum
Attenuation / dB
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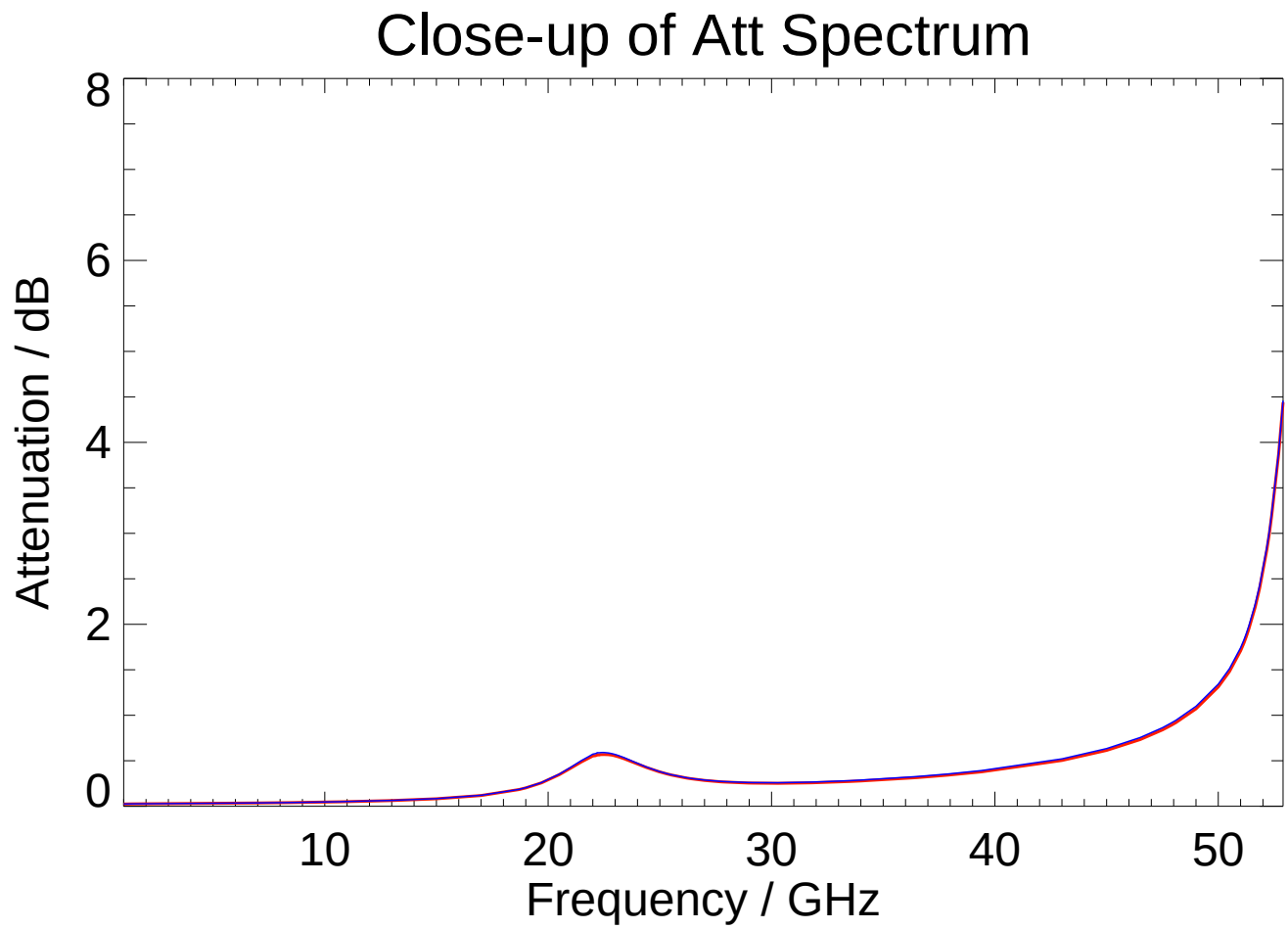
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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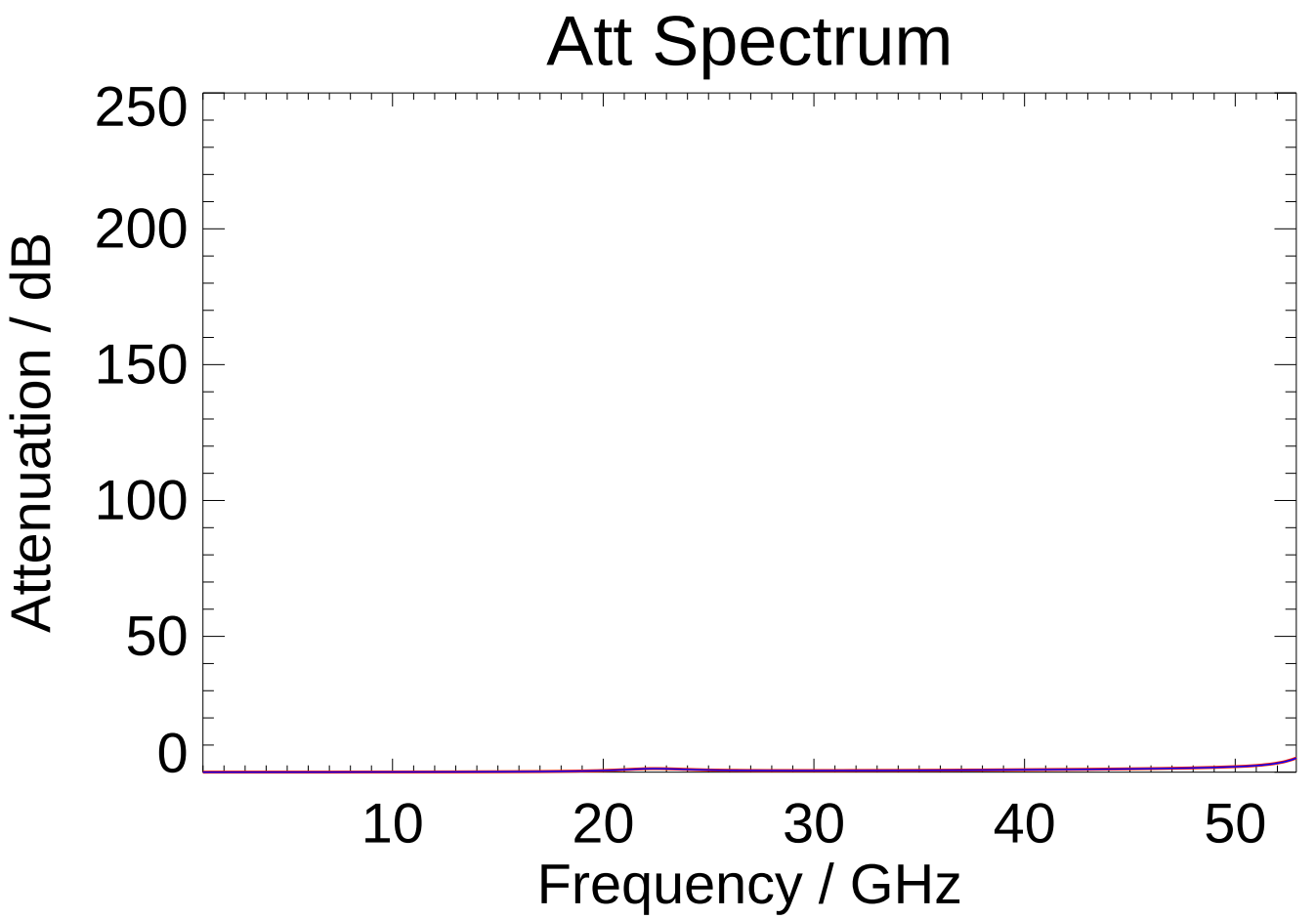
Frequency / GHz


Att Spectrum
Attenuation / dB
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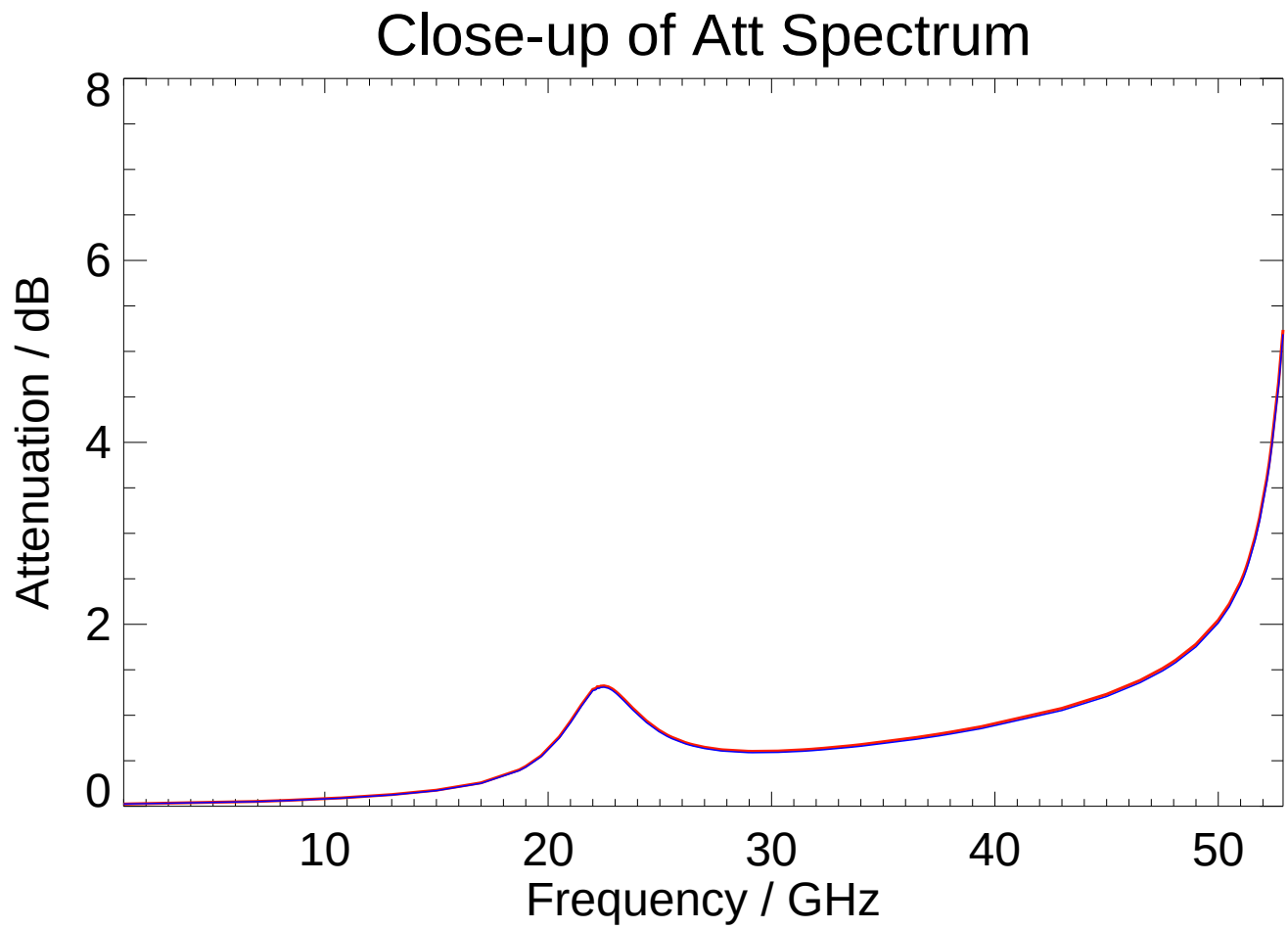
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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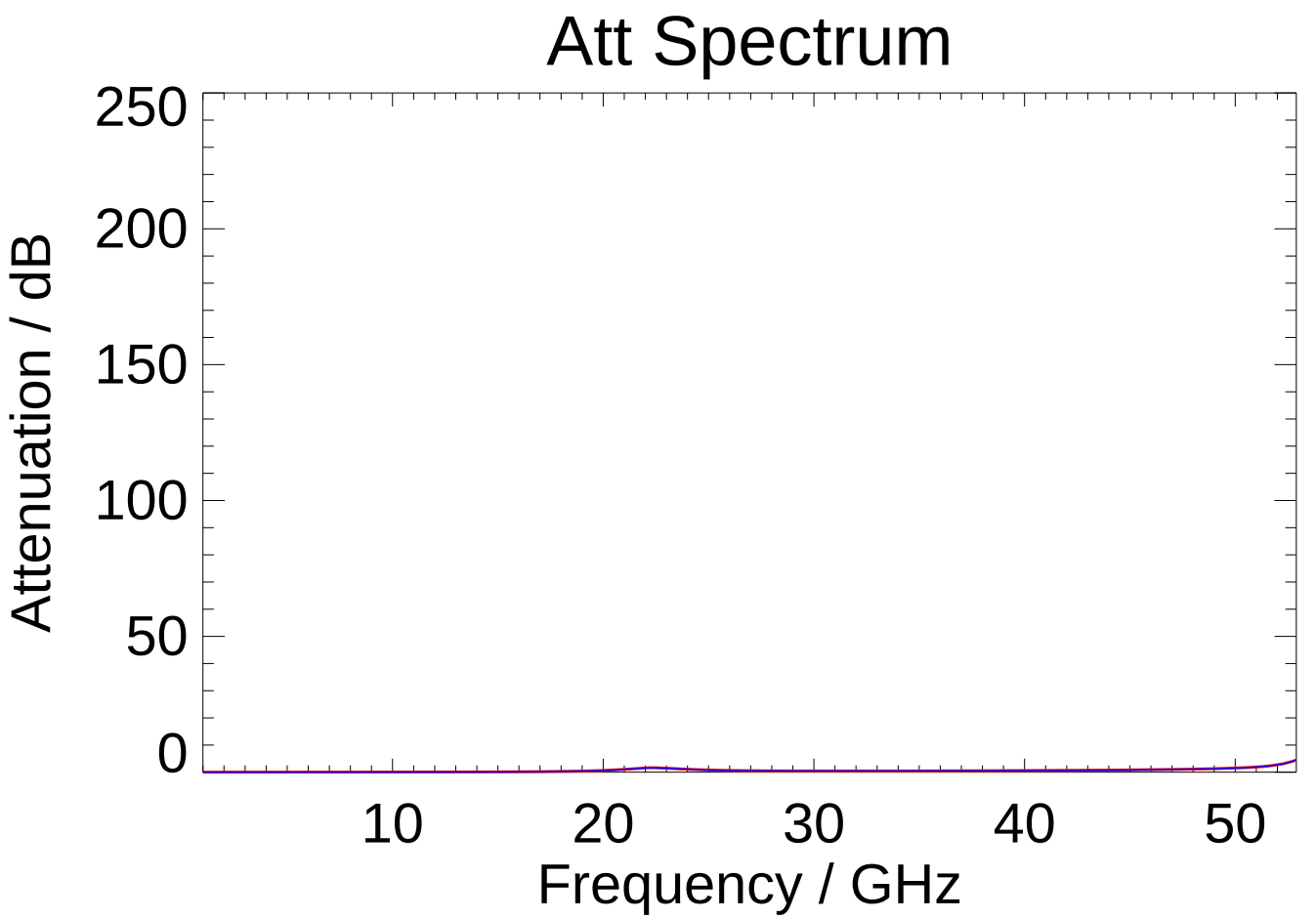
Frequency / GHz


Att Spectrum
Attenuation / dB
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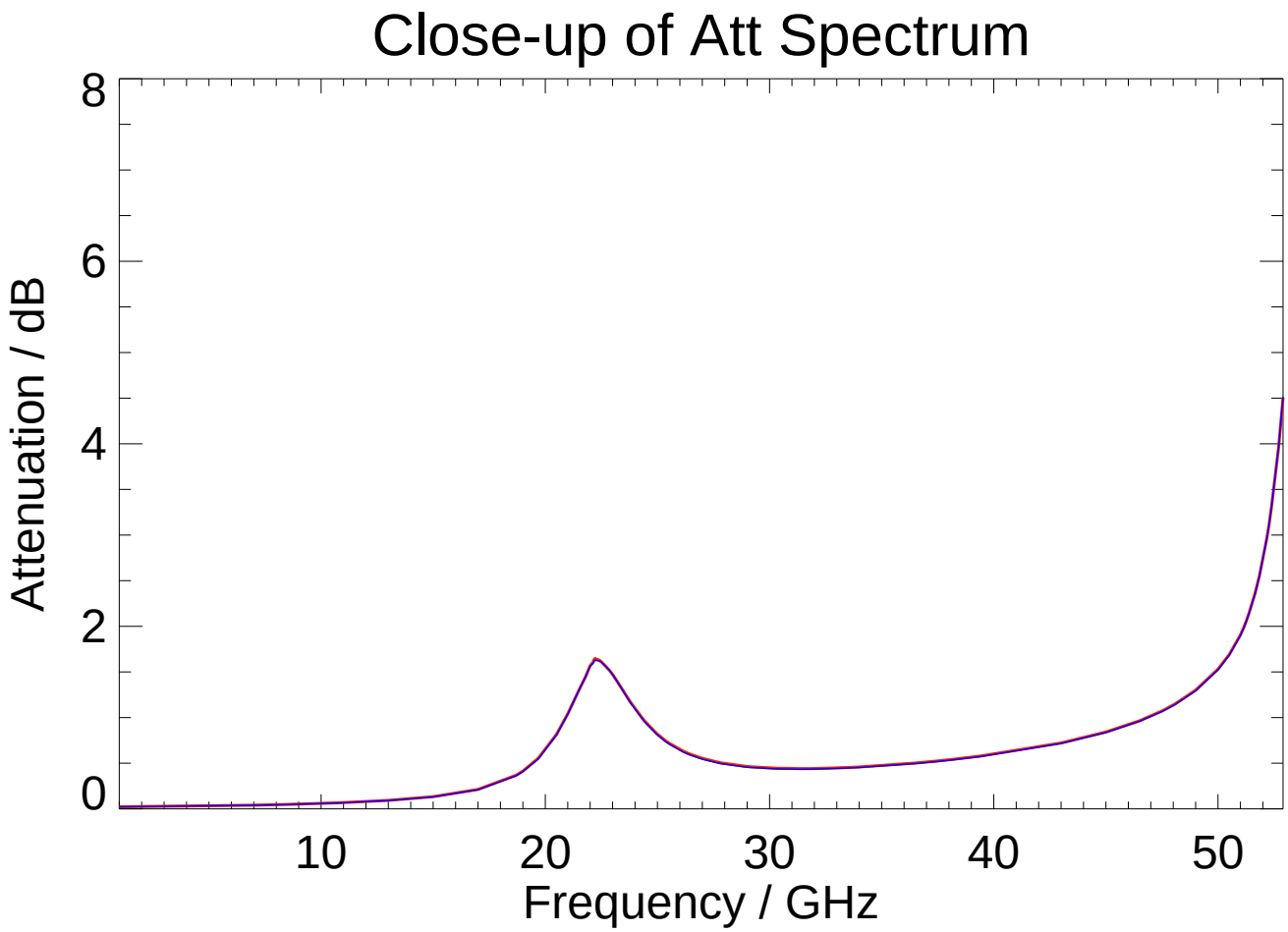
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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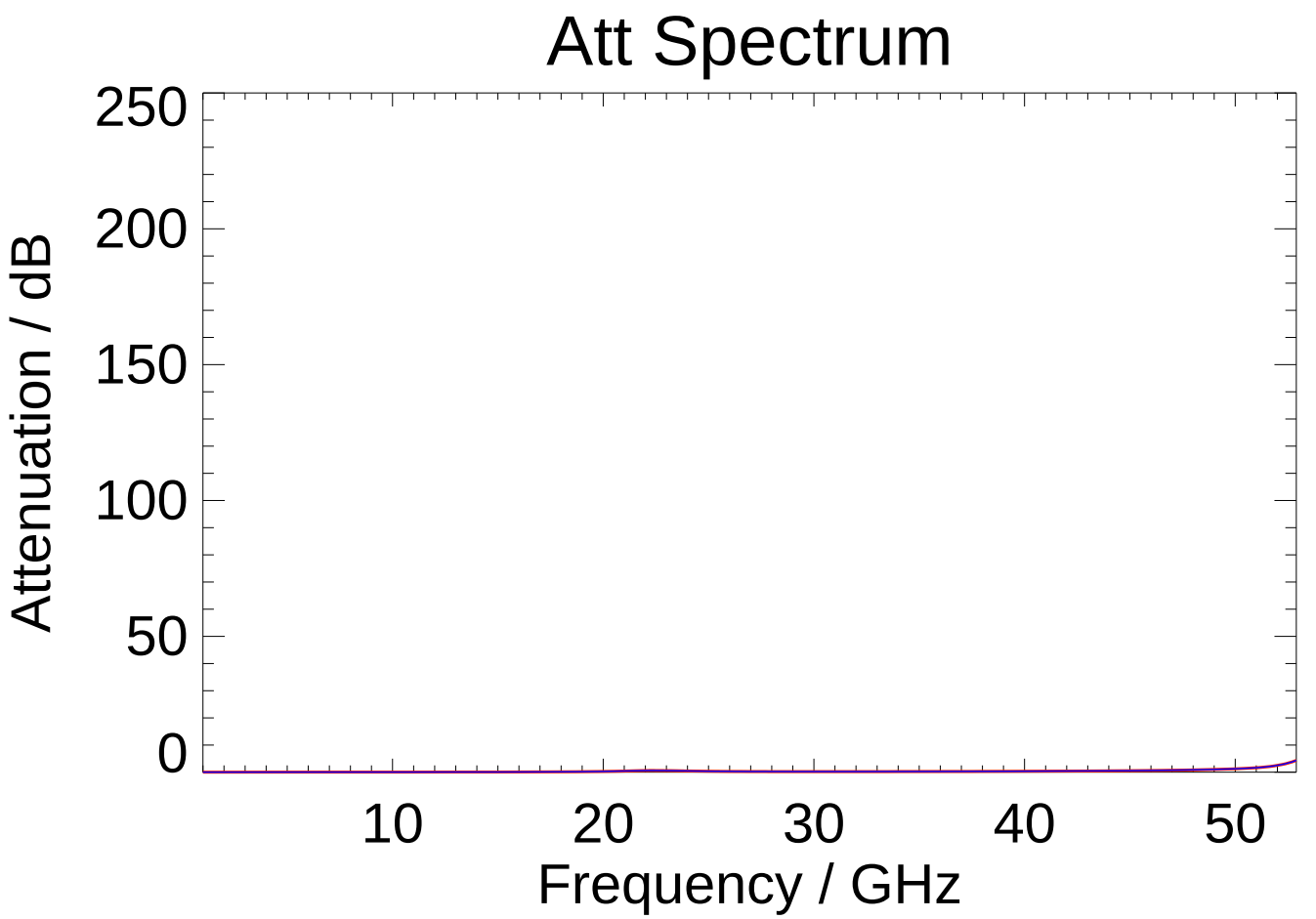
Frequency / GHz


Att Spectrum
Attenuation / dB
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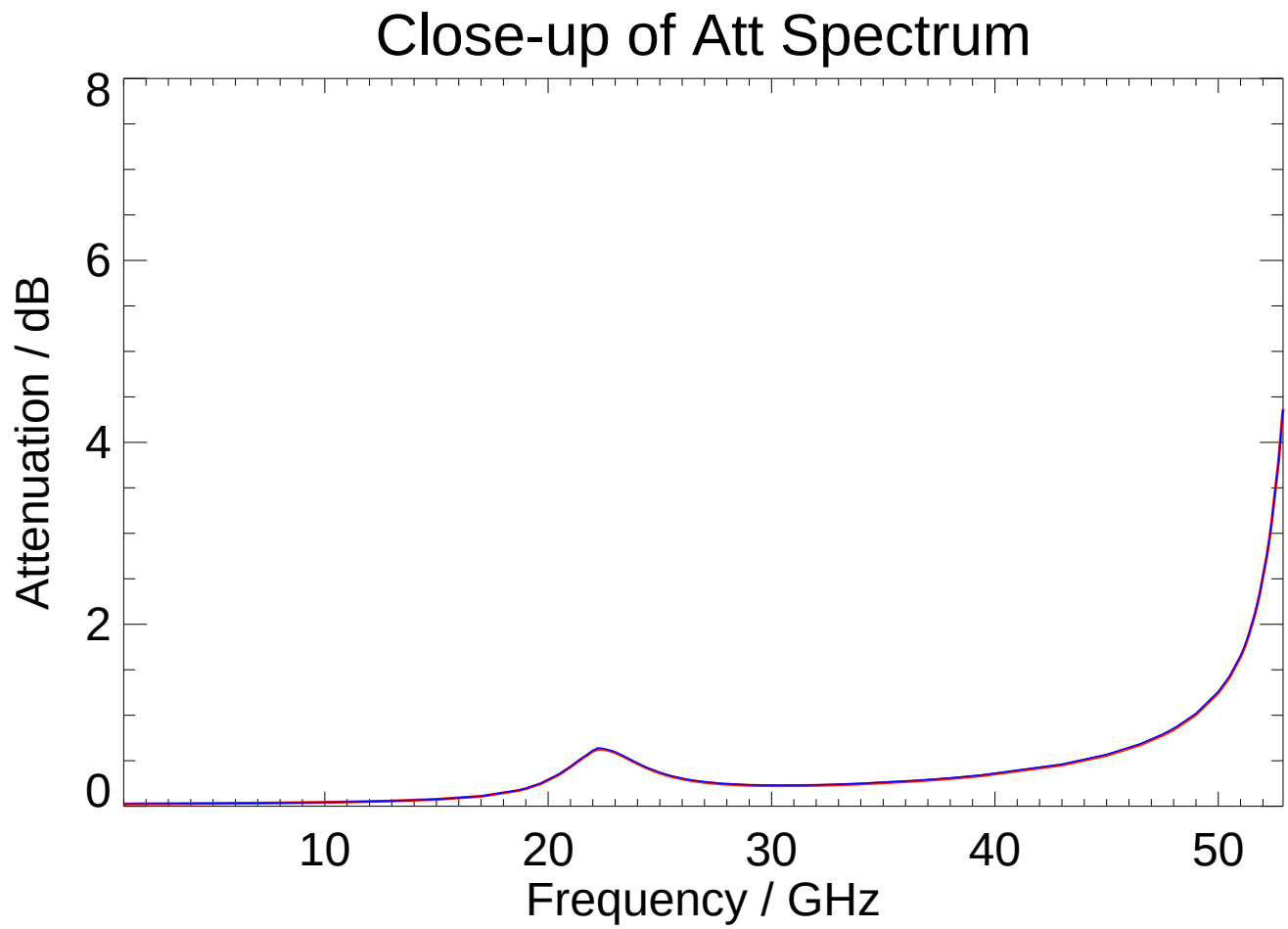
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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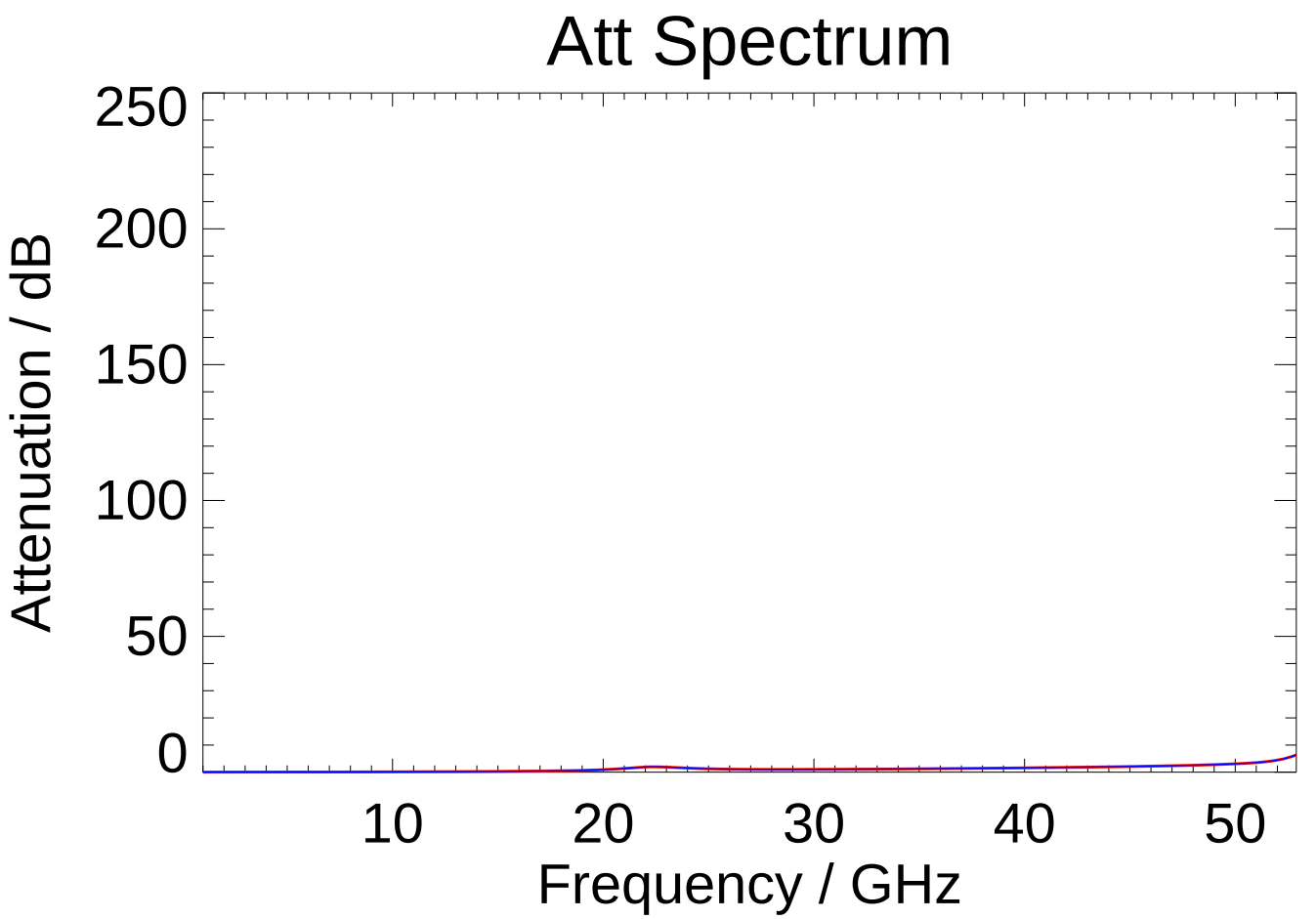
Frequency / GHz


Att Spectrum
Attenuation / dB
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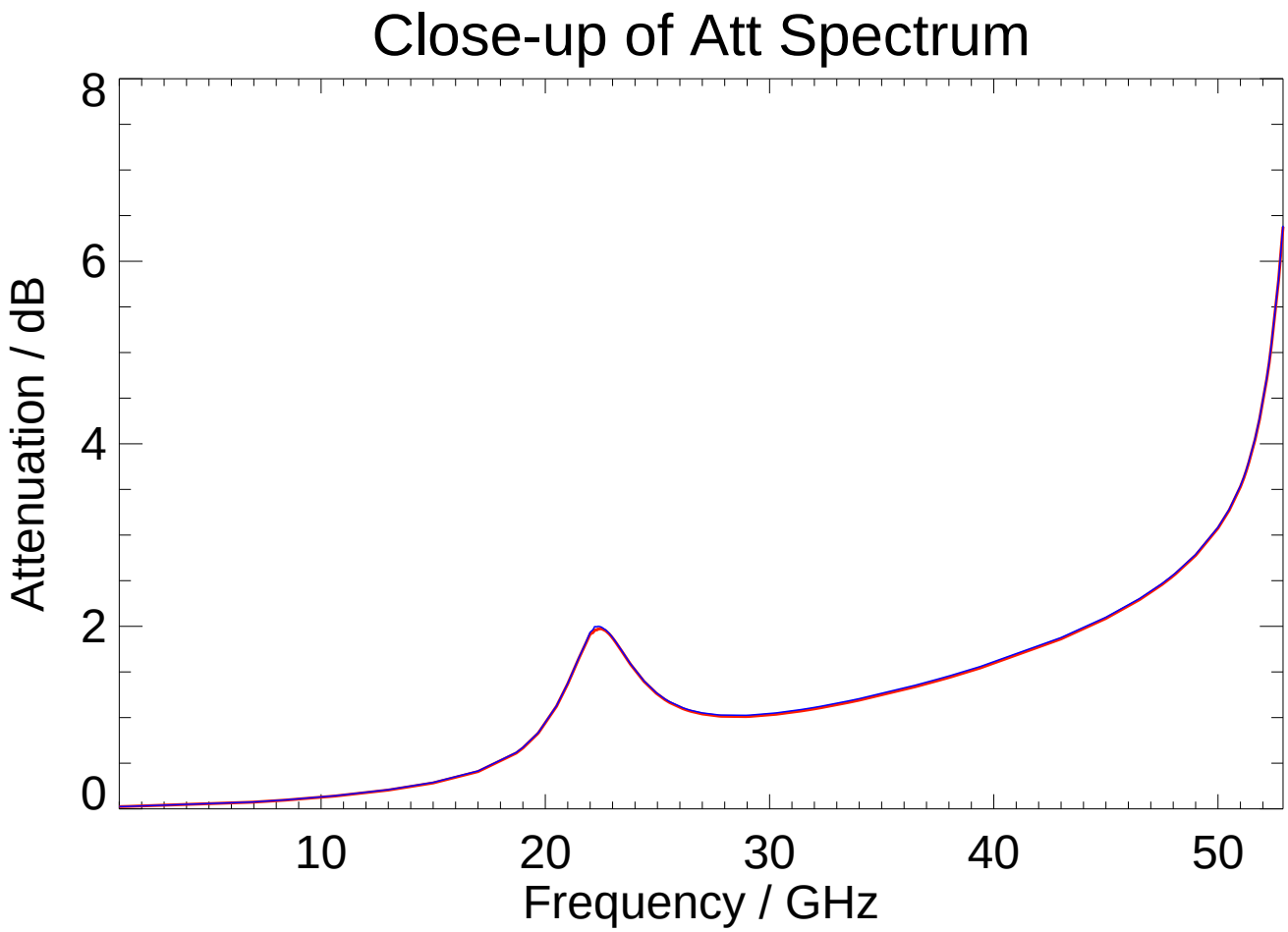
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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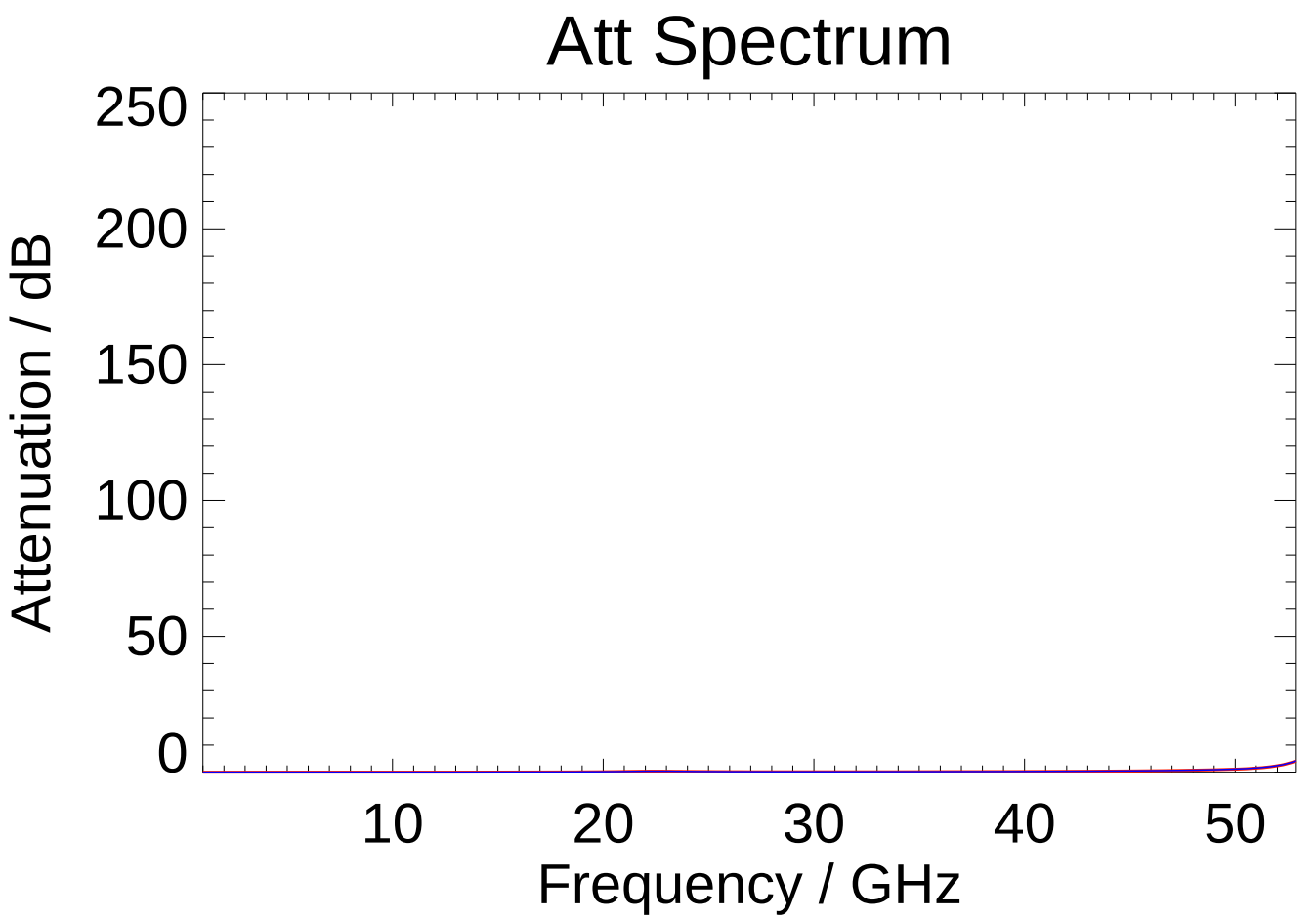
Frequency / GHz


Att Spectrum
Attenuation / dB
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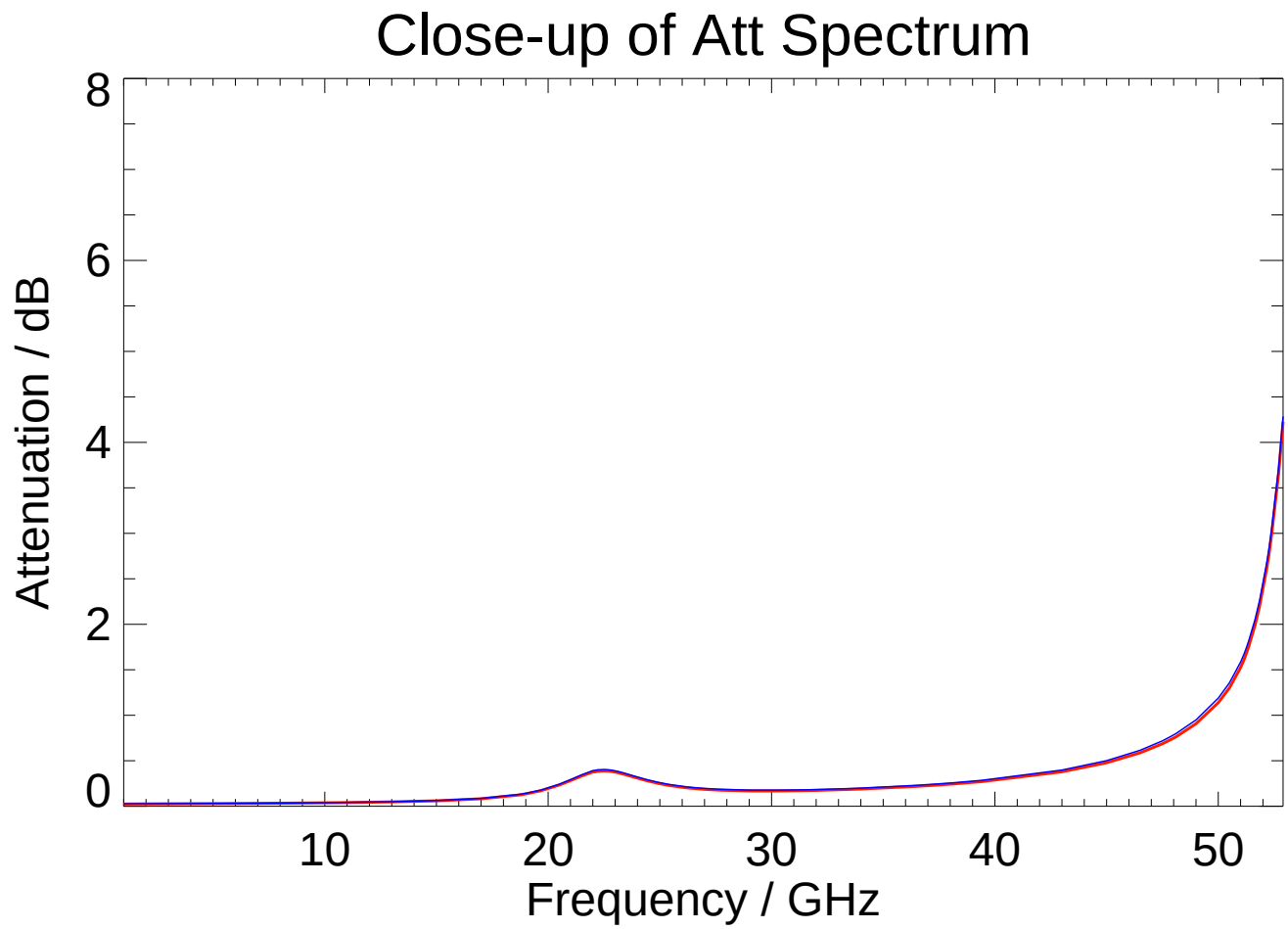
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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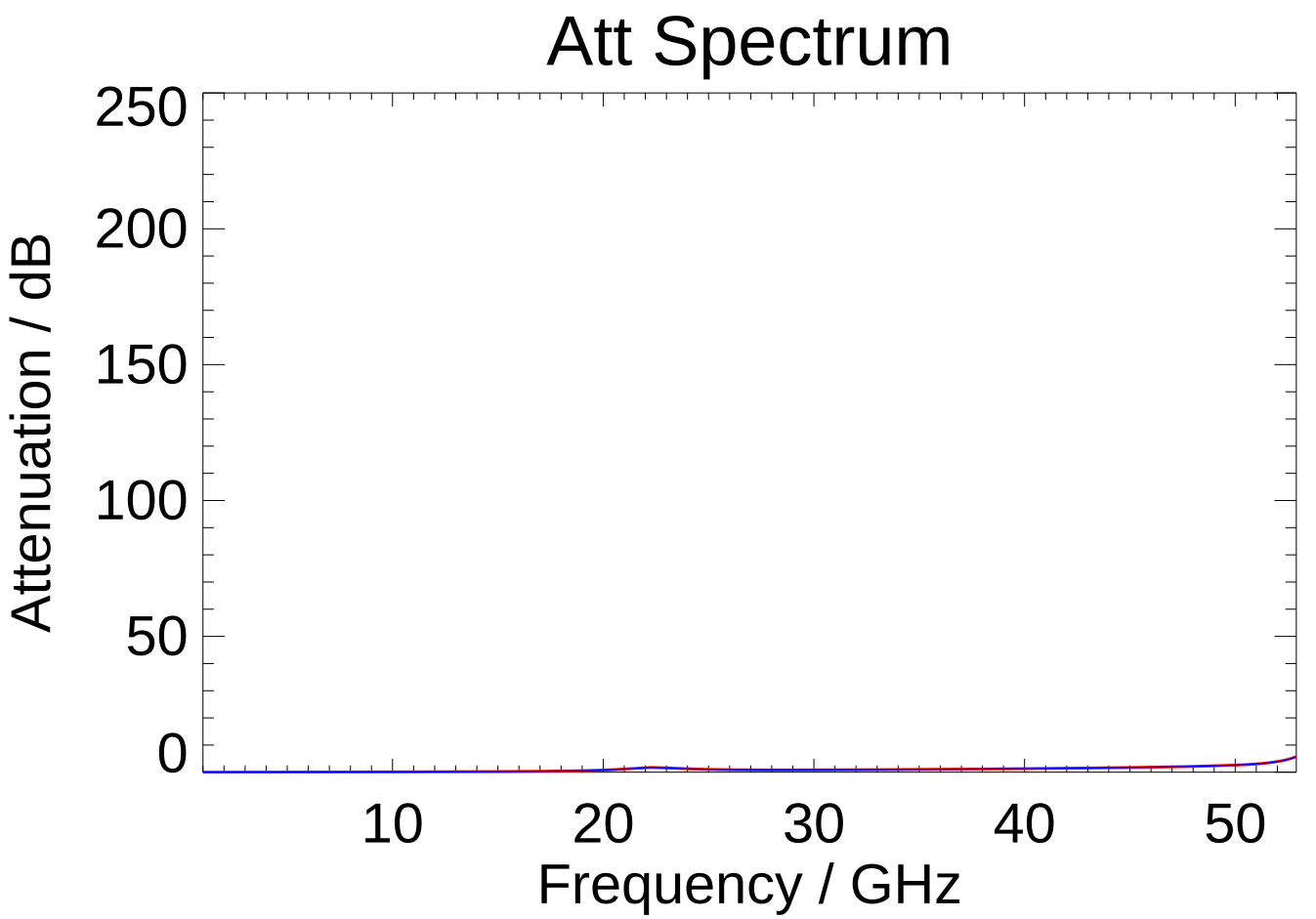
Frequency / GHz


Att Spectrum
Attenuation / dB
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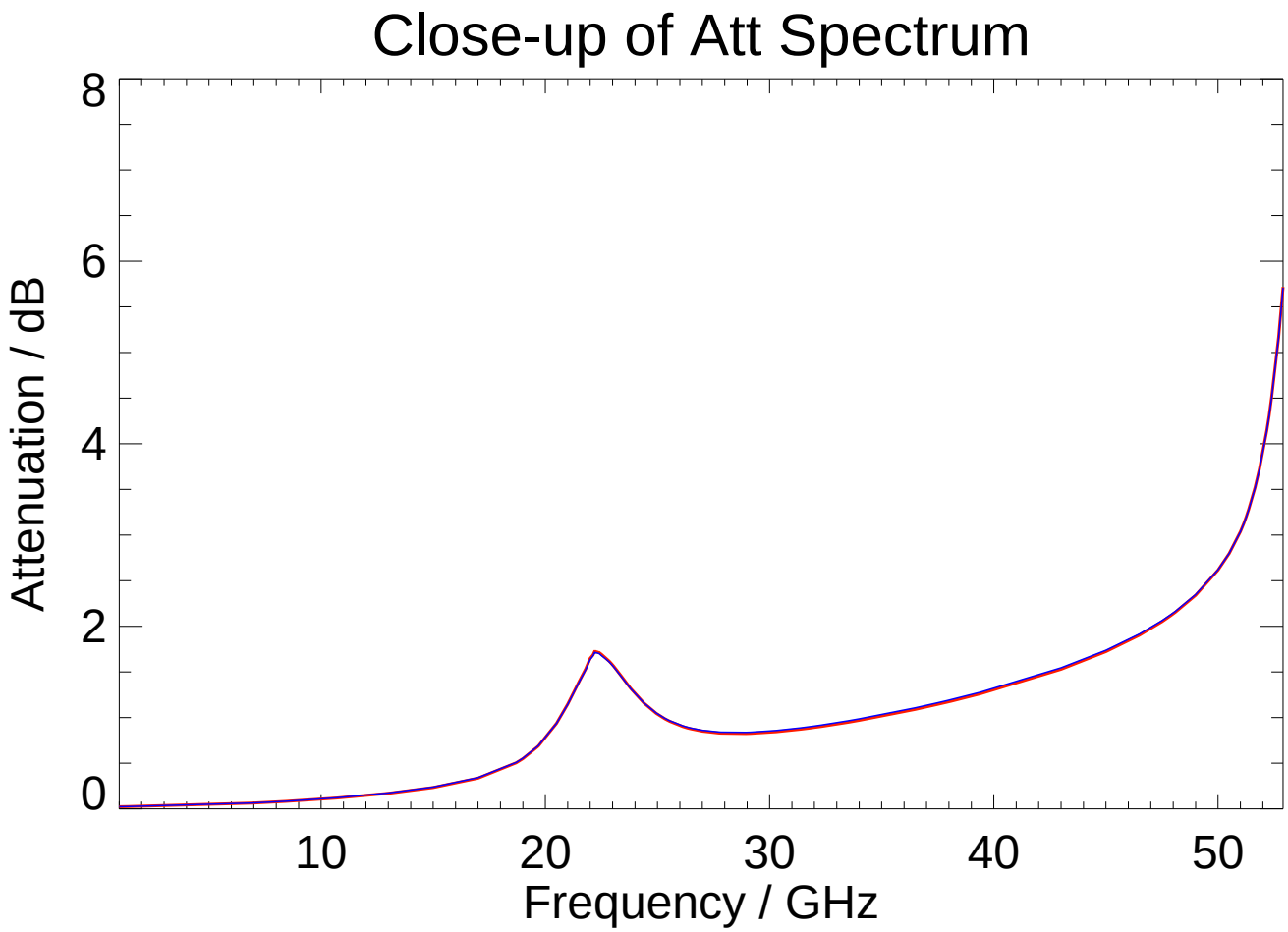
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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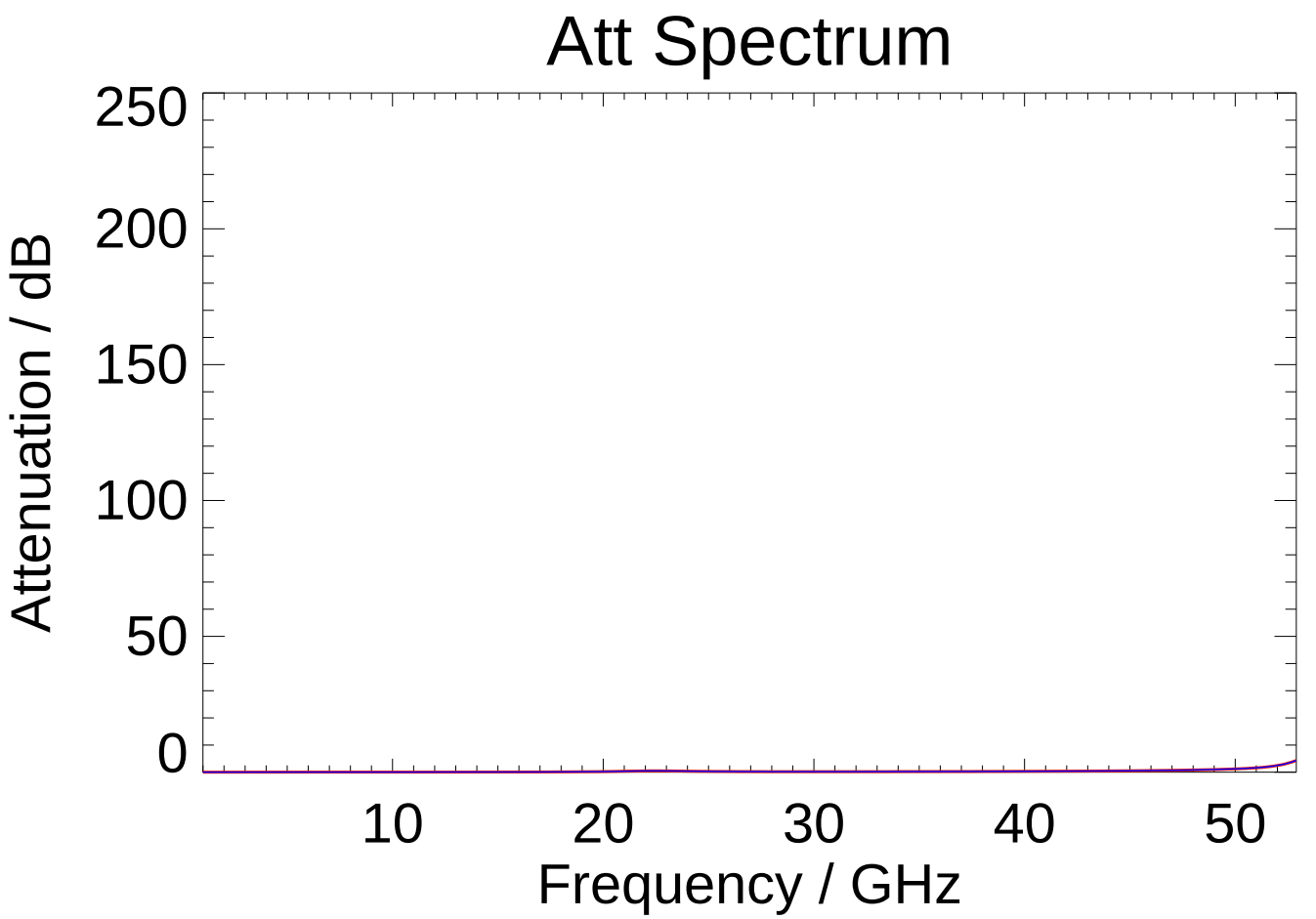
Frequency / GHz


Att Spectrum
Attenuation / dB
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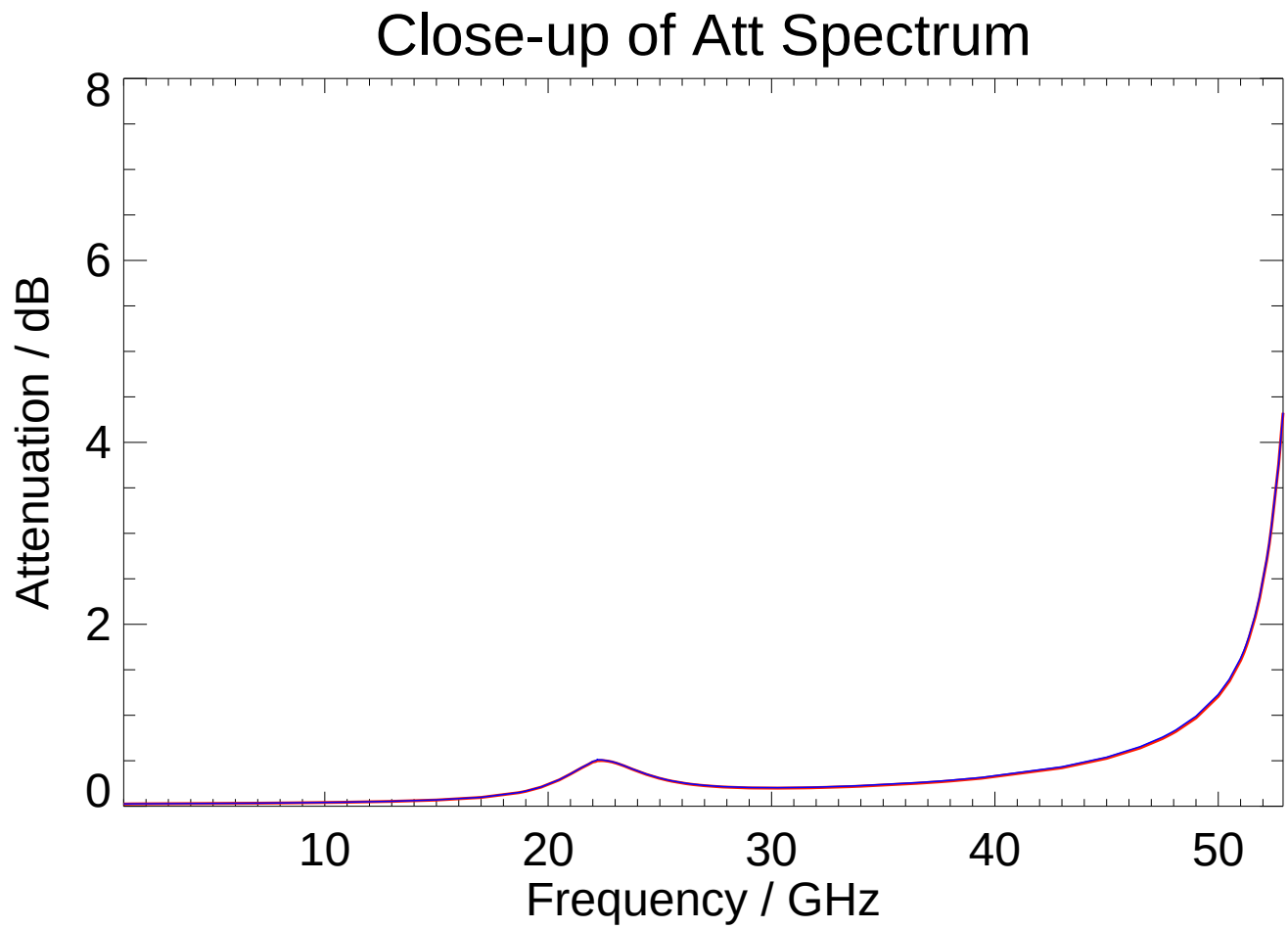
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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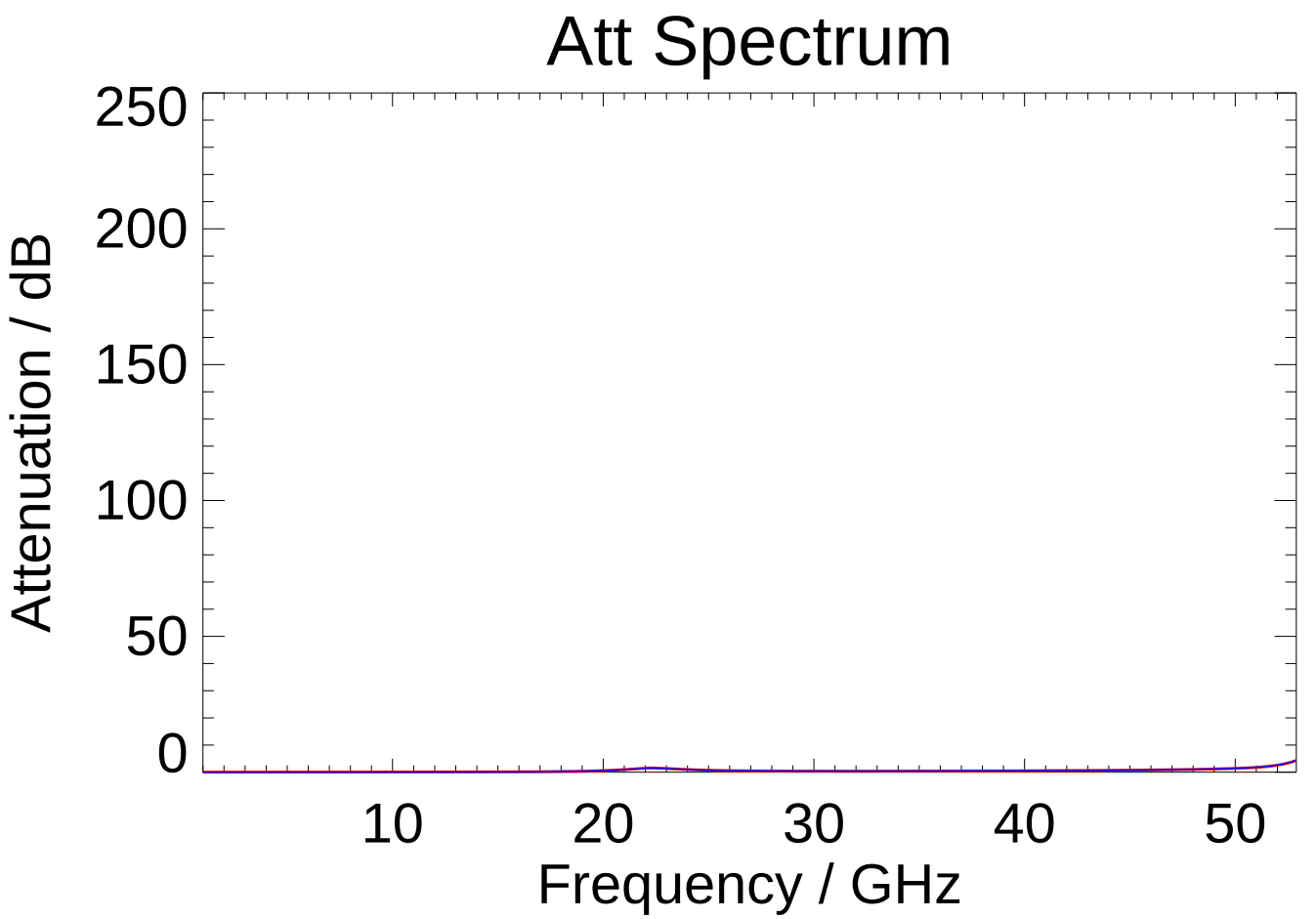
Frequency / GHz


Att Spectrum
Attenuation / dB
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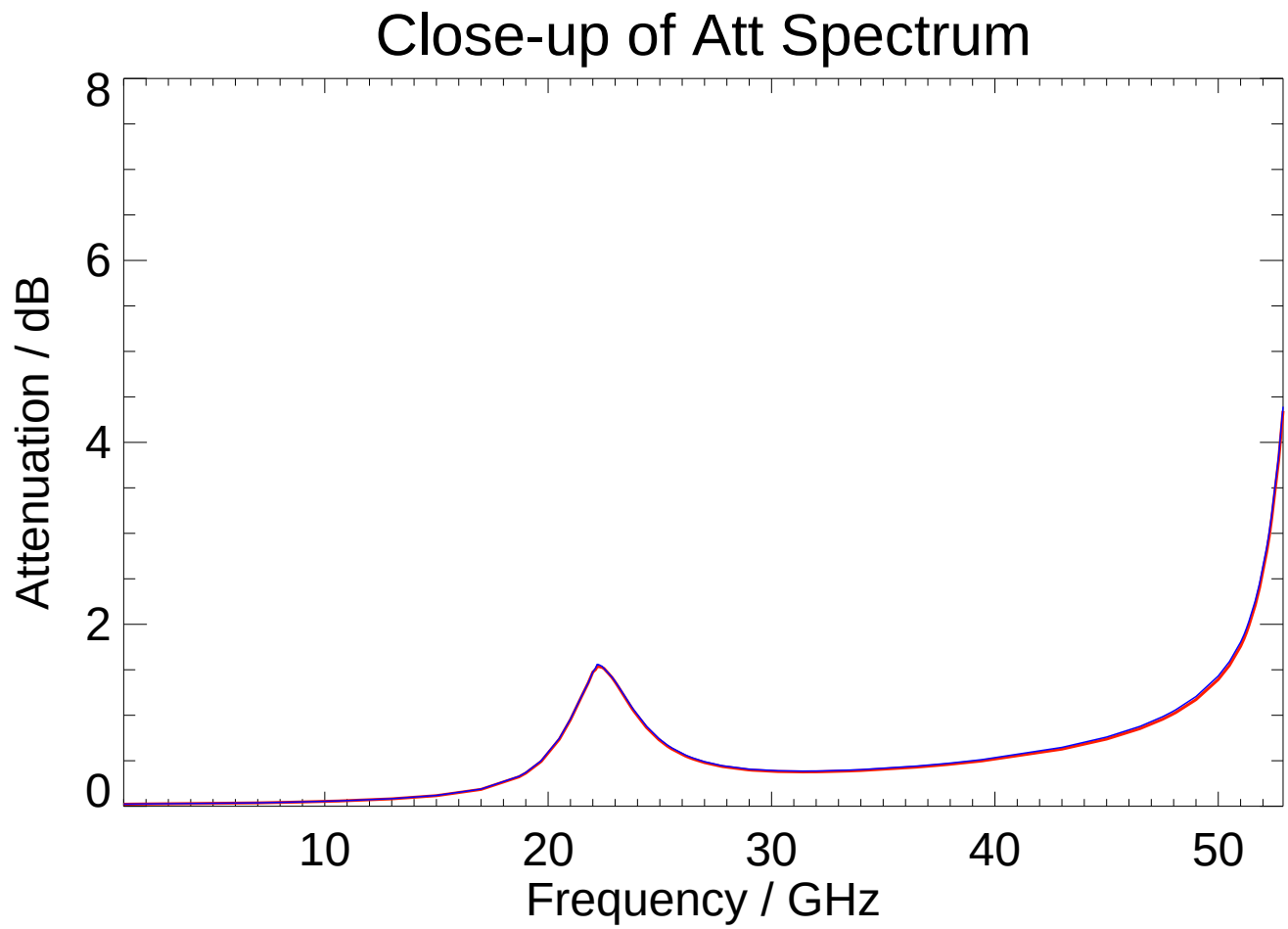
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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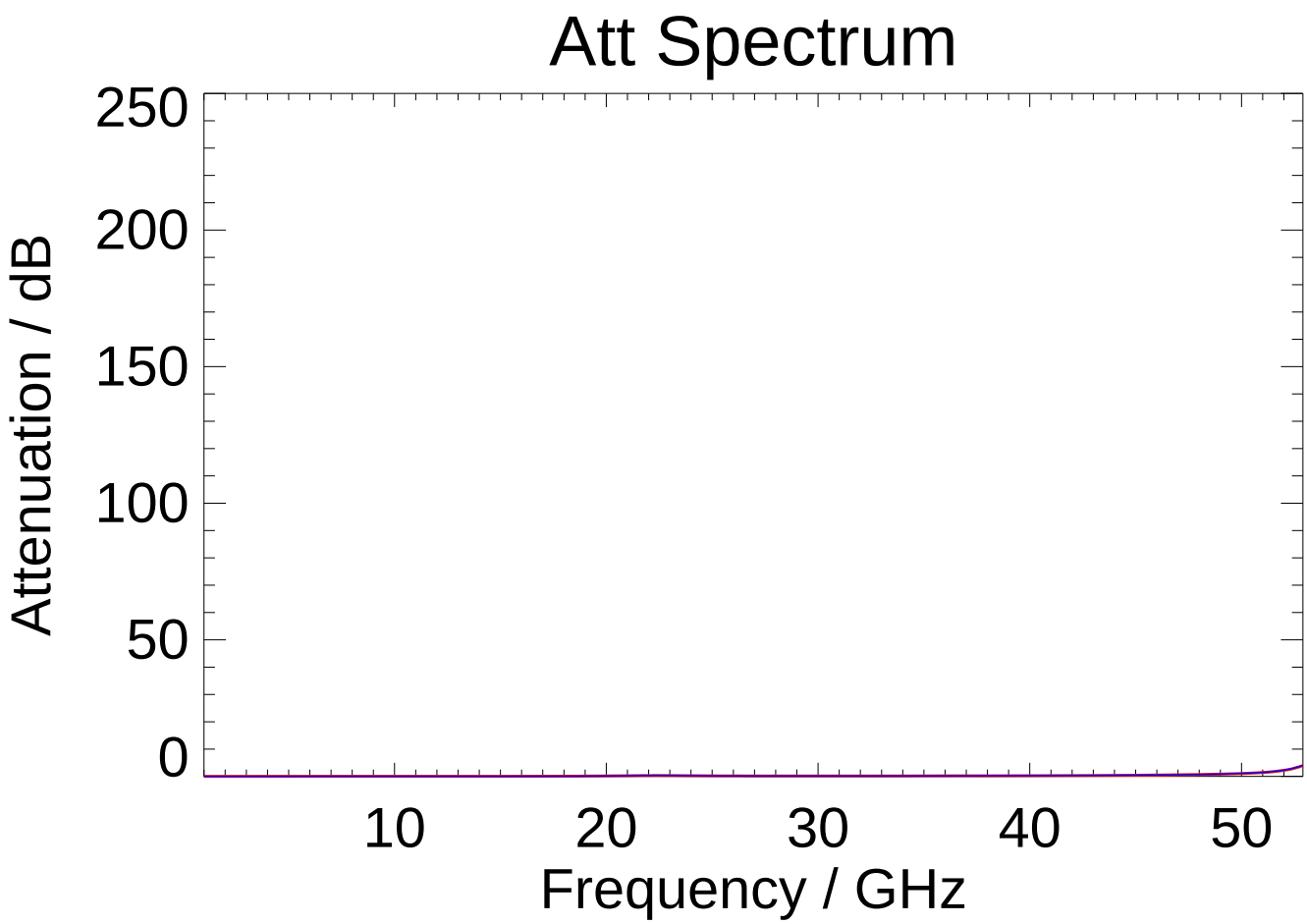
Frequency / GHz


Att Spectrum
Attenuation / dB
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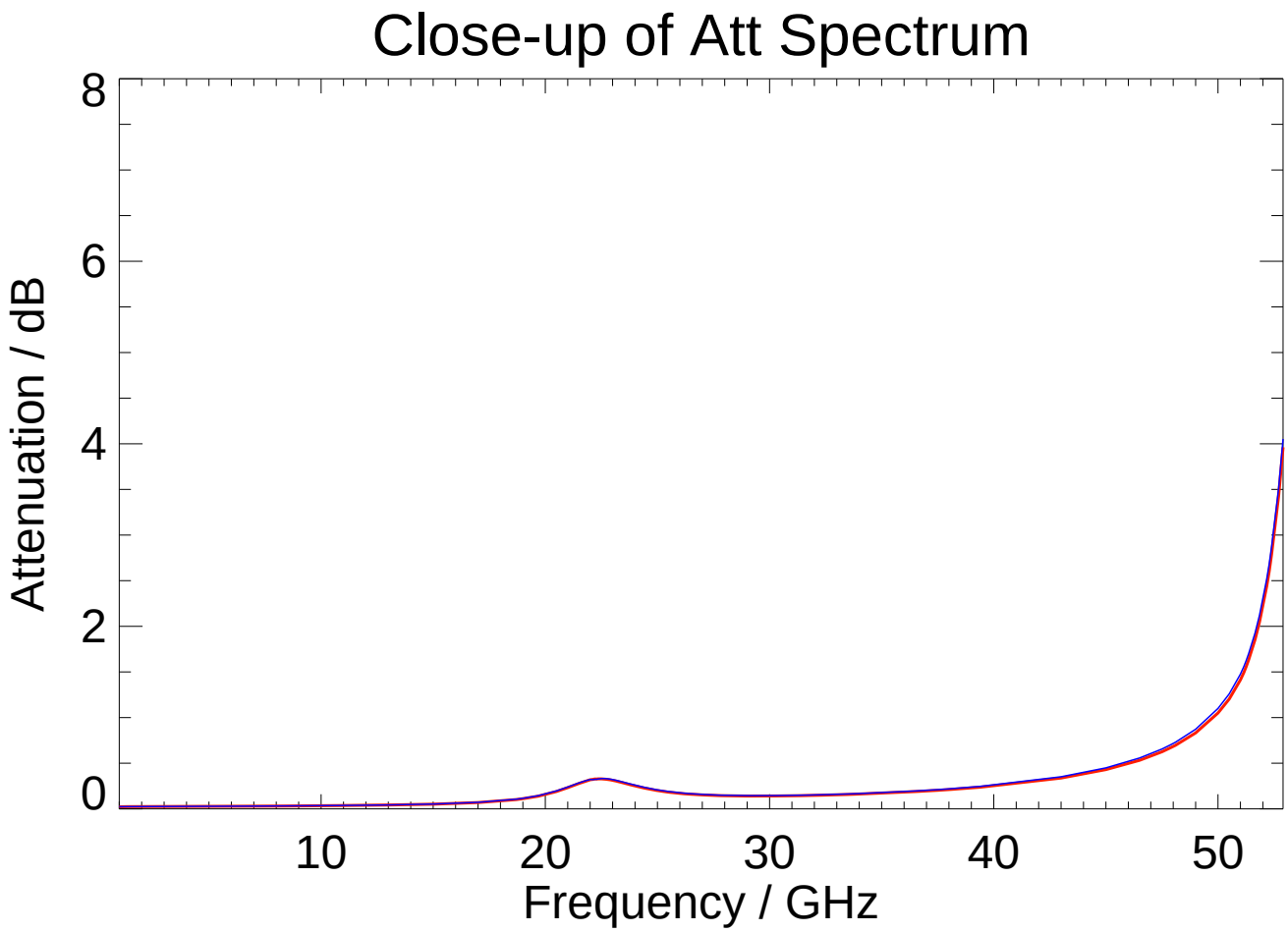
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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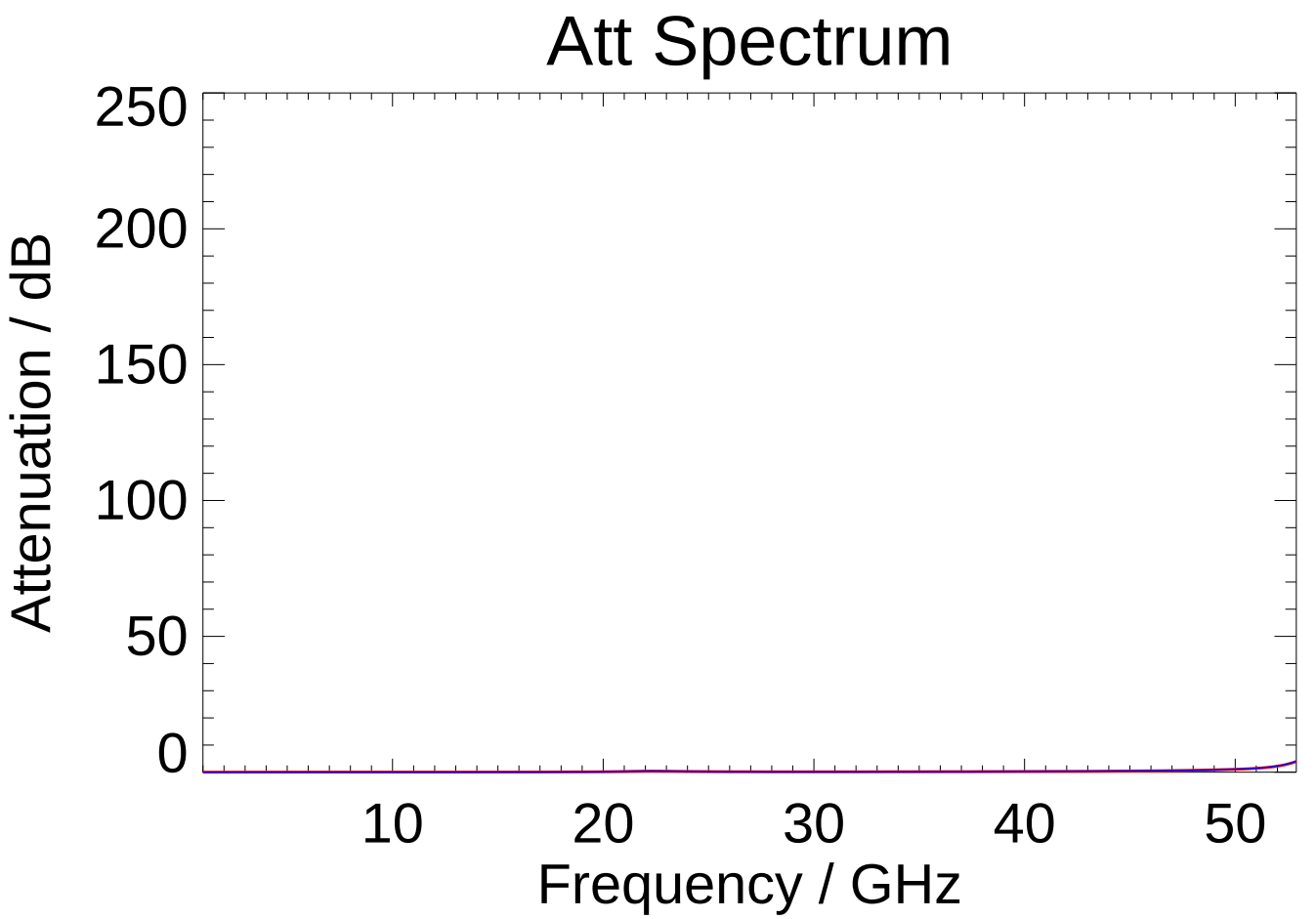
Frequency / GHz


Att Spectrum
Attenuation / dB
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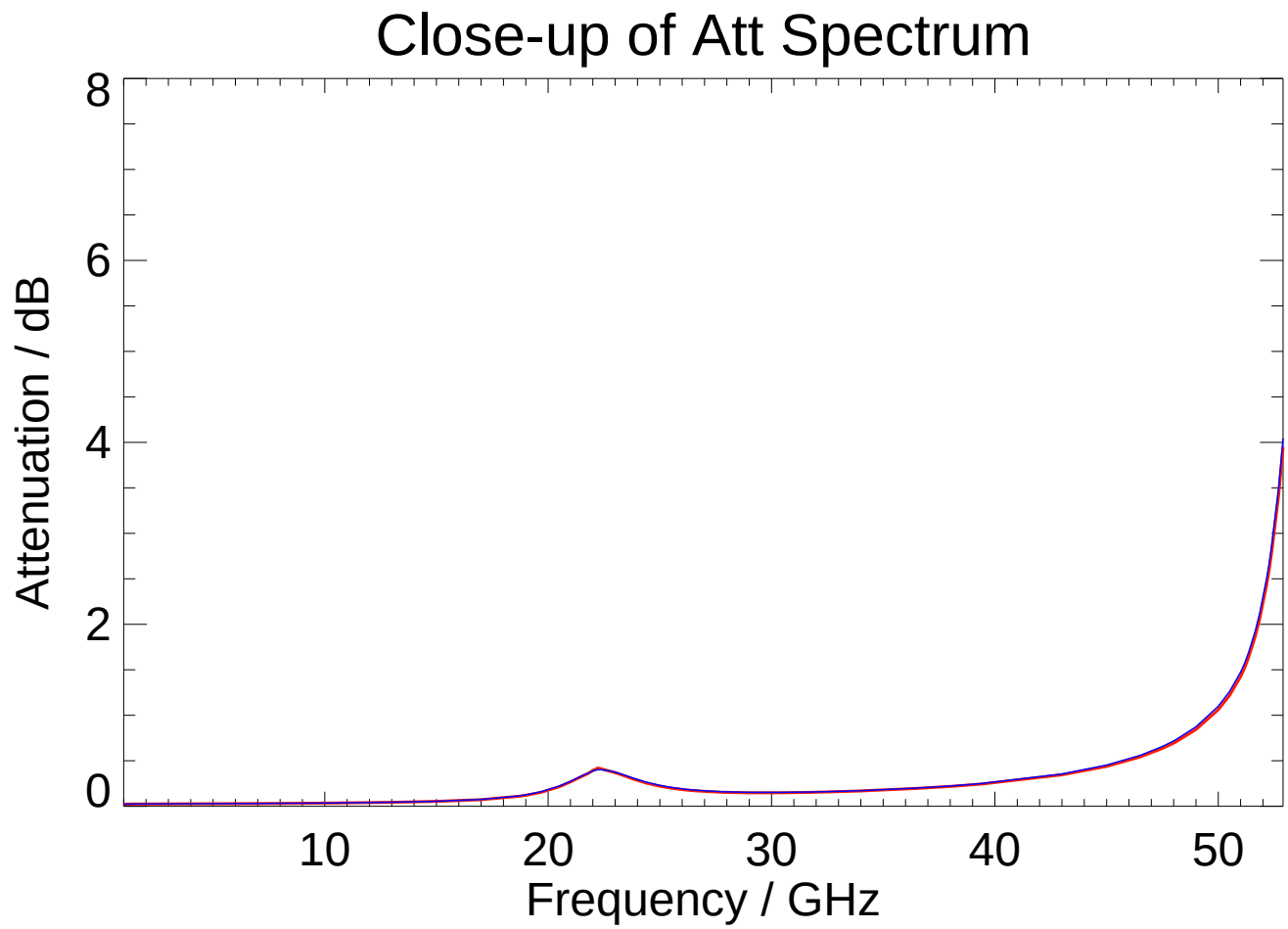
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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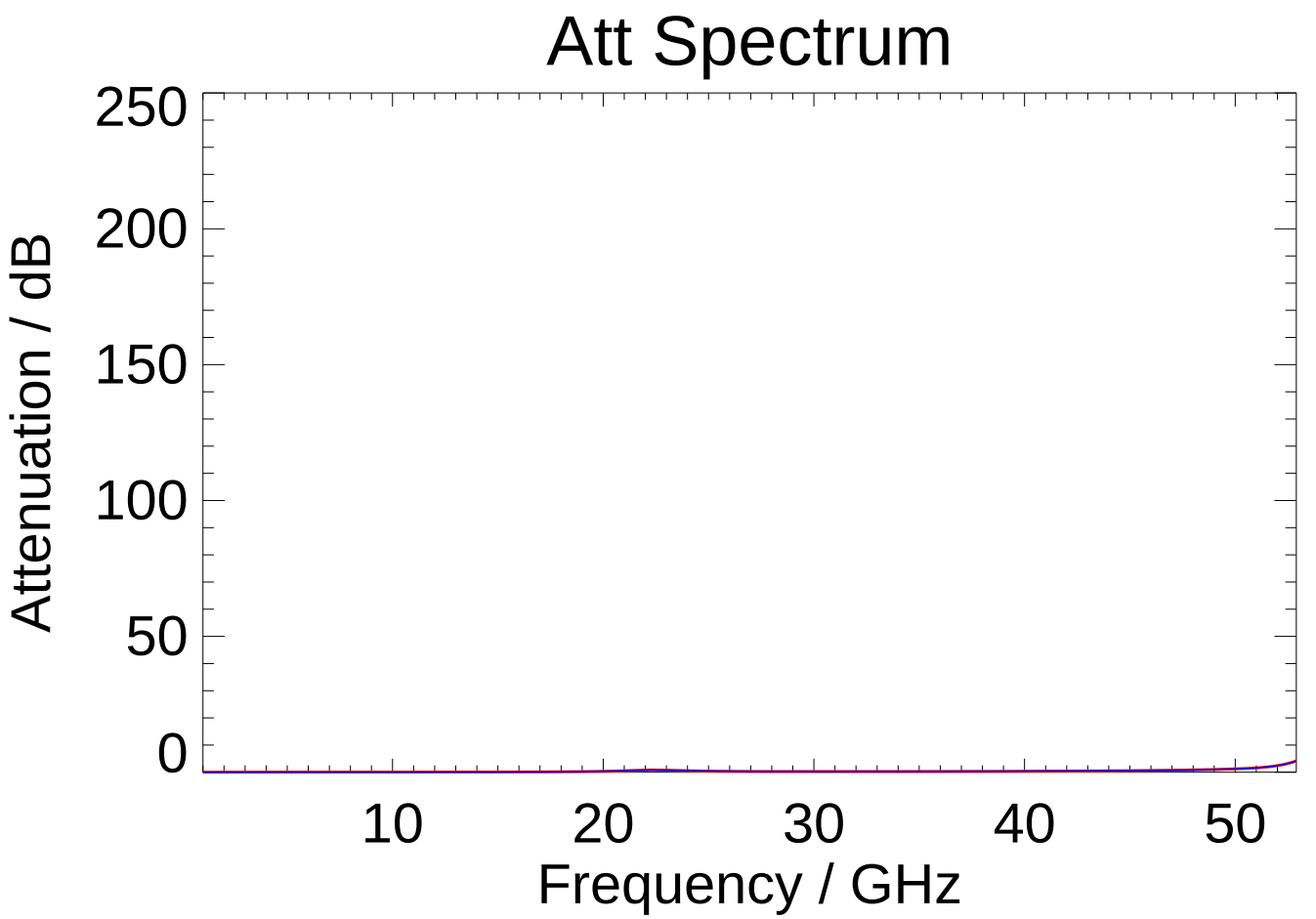
Frequency / GHz


Att Spectrum
Attenuation / dB
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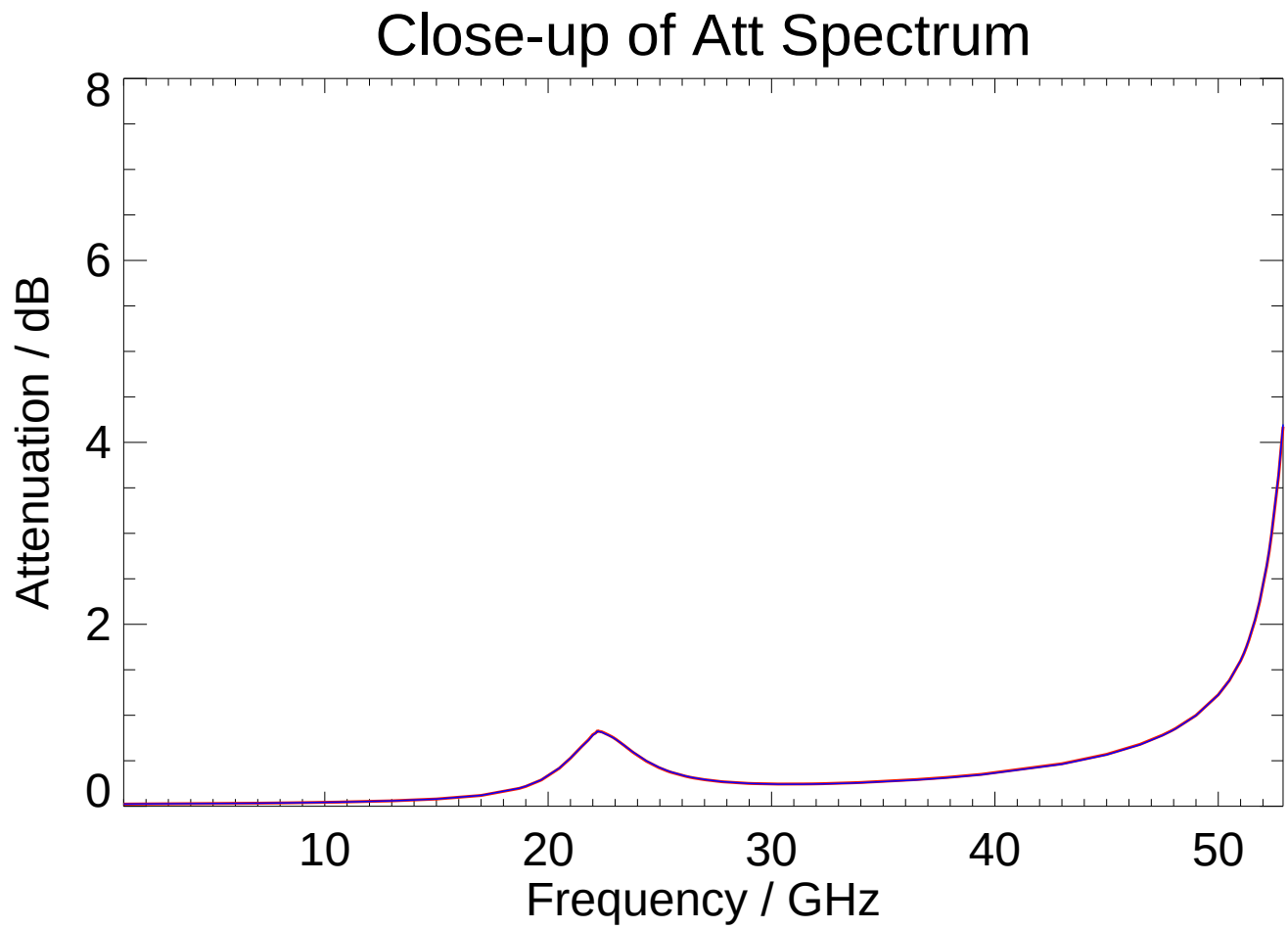
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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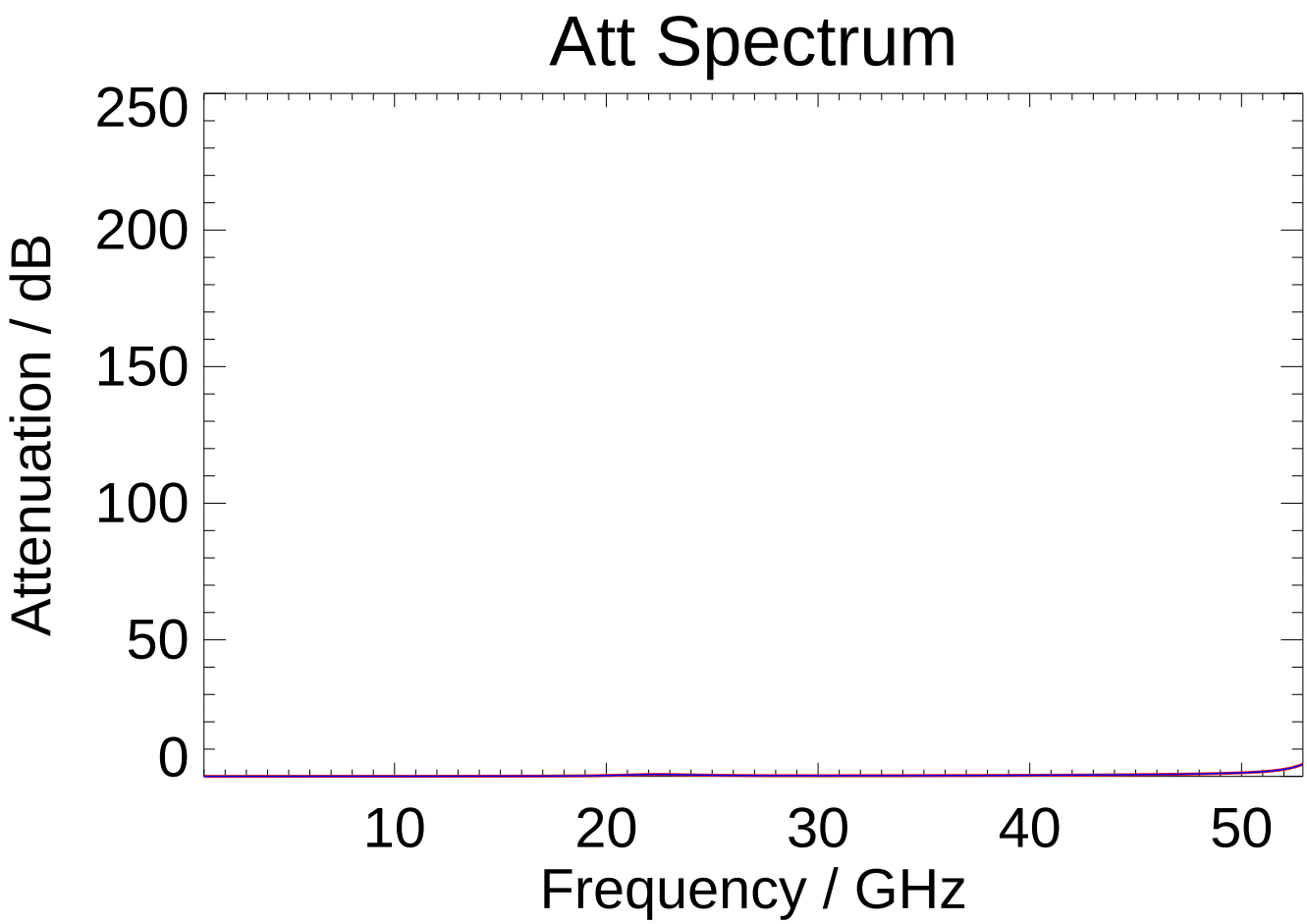
Frequency / GHz


Att Spectrum
Attenuation / dB
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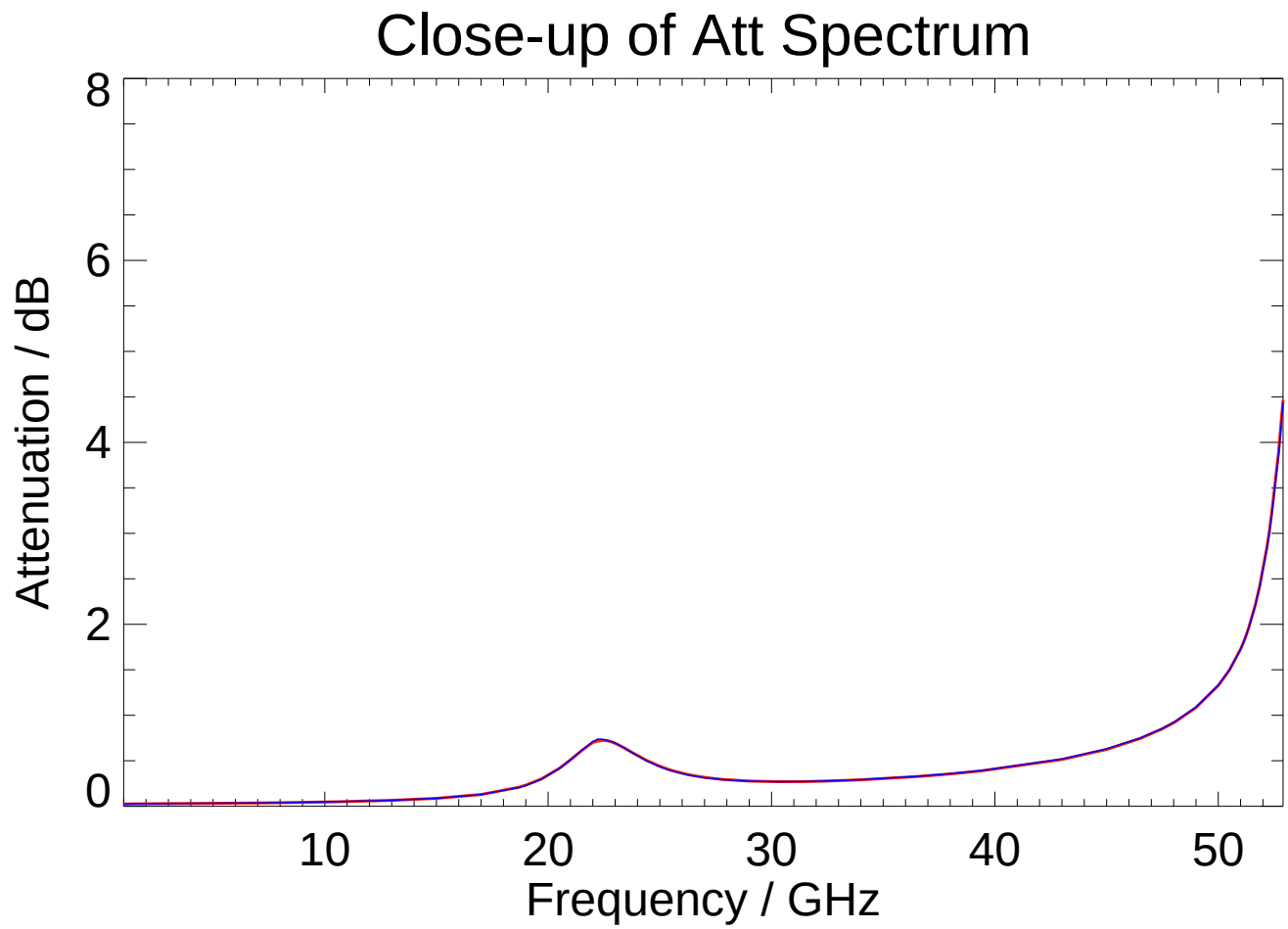
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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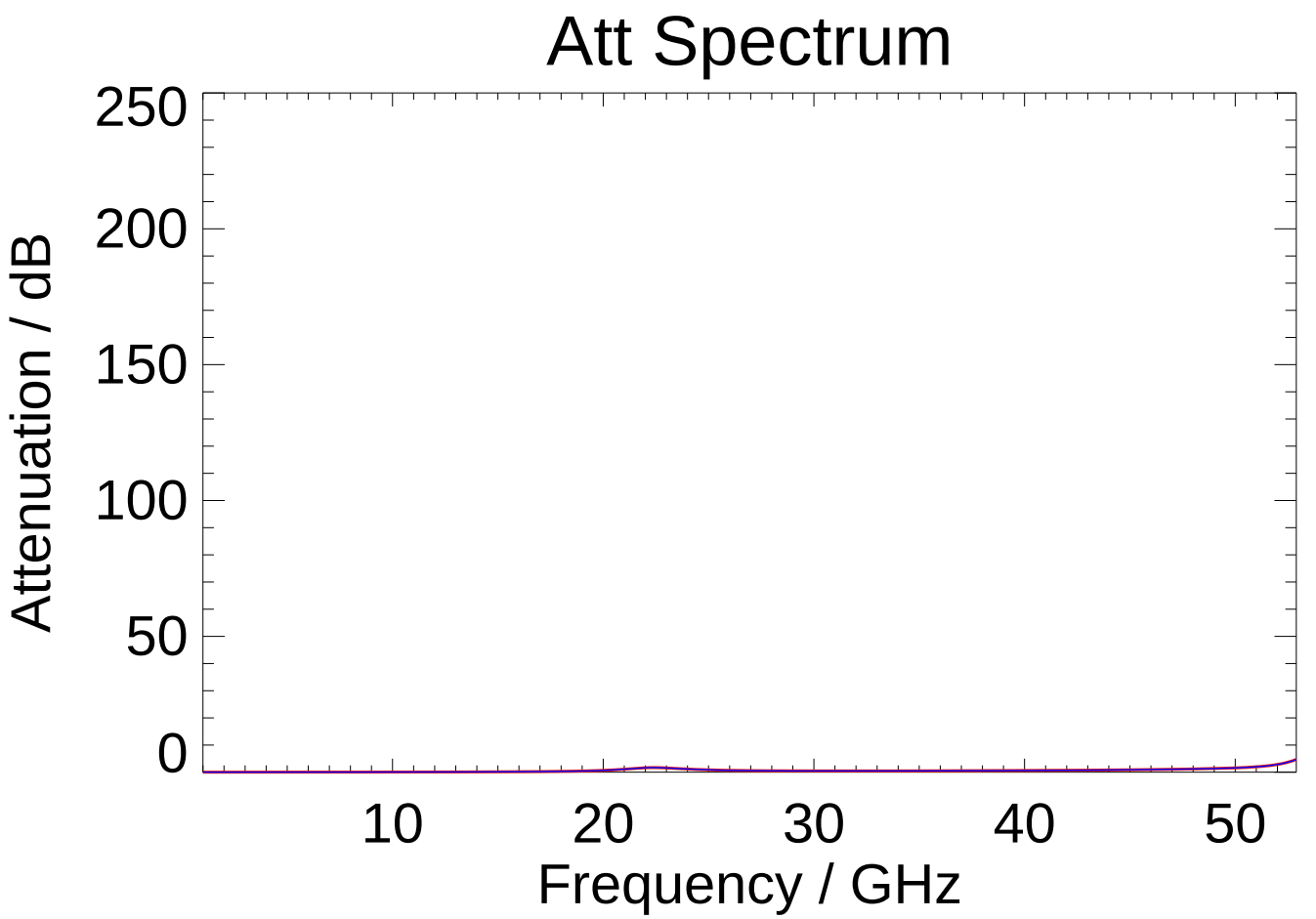
Frequency / GHz


Att Spectrum
Attenuation / dB
250
200
150
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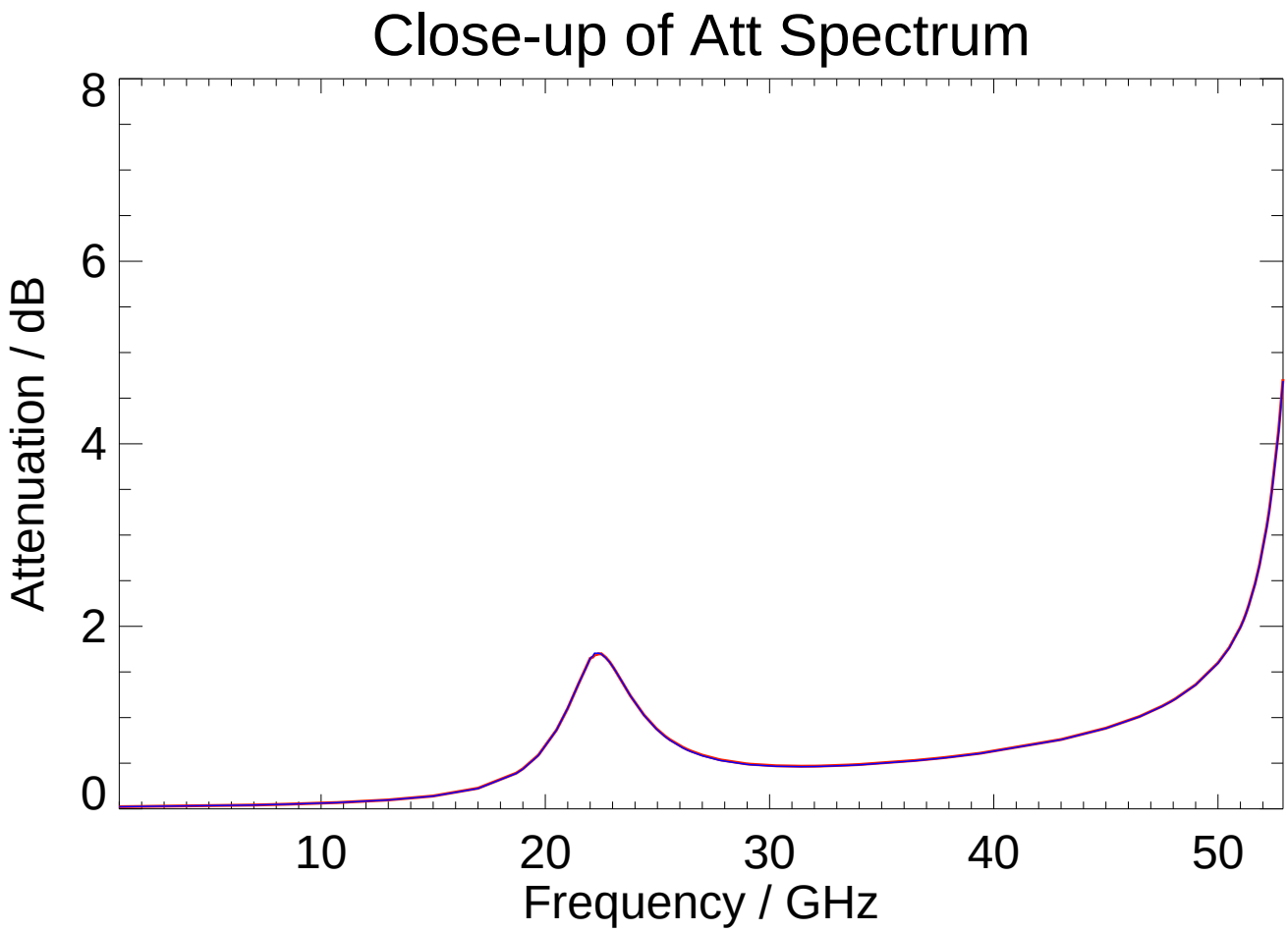
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
6
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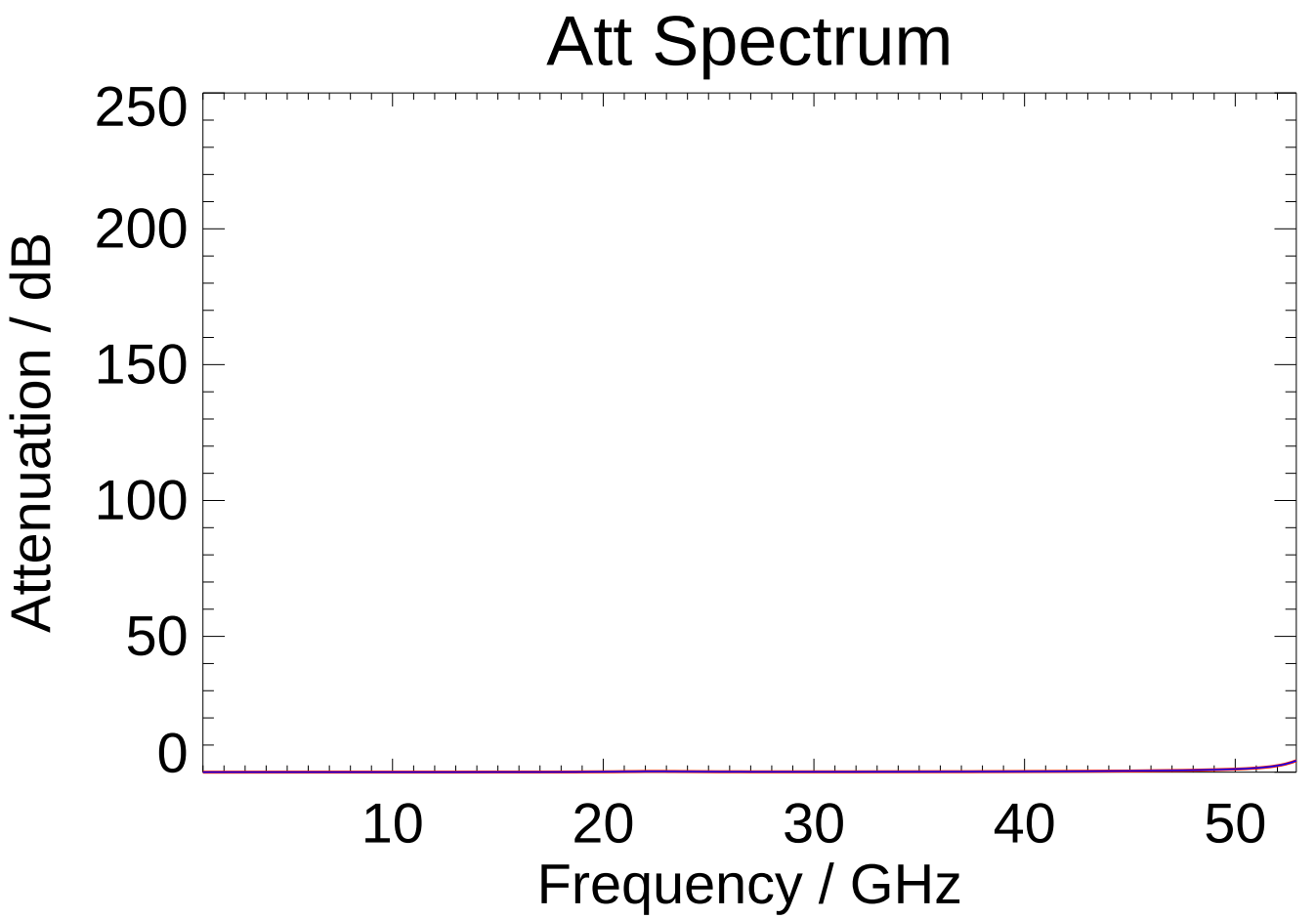
Frequency / GHz


Att Spectrum
Attenuation / dB
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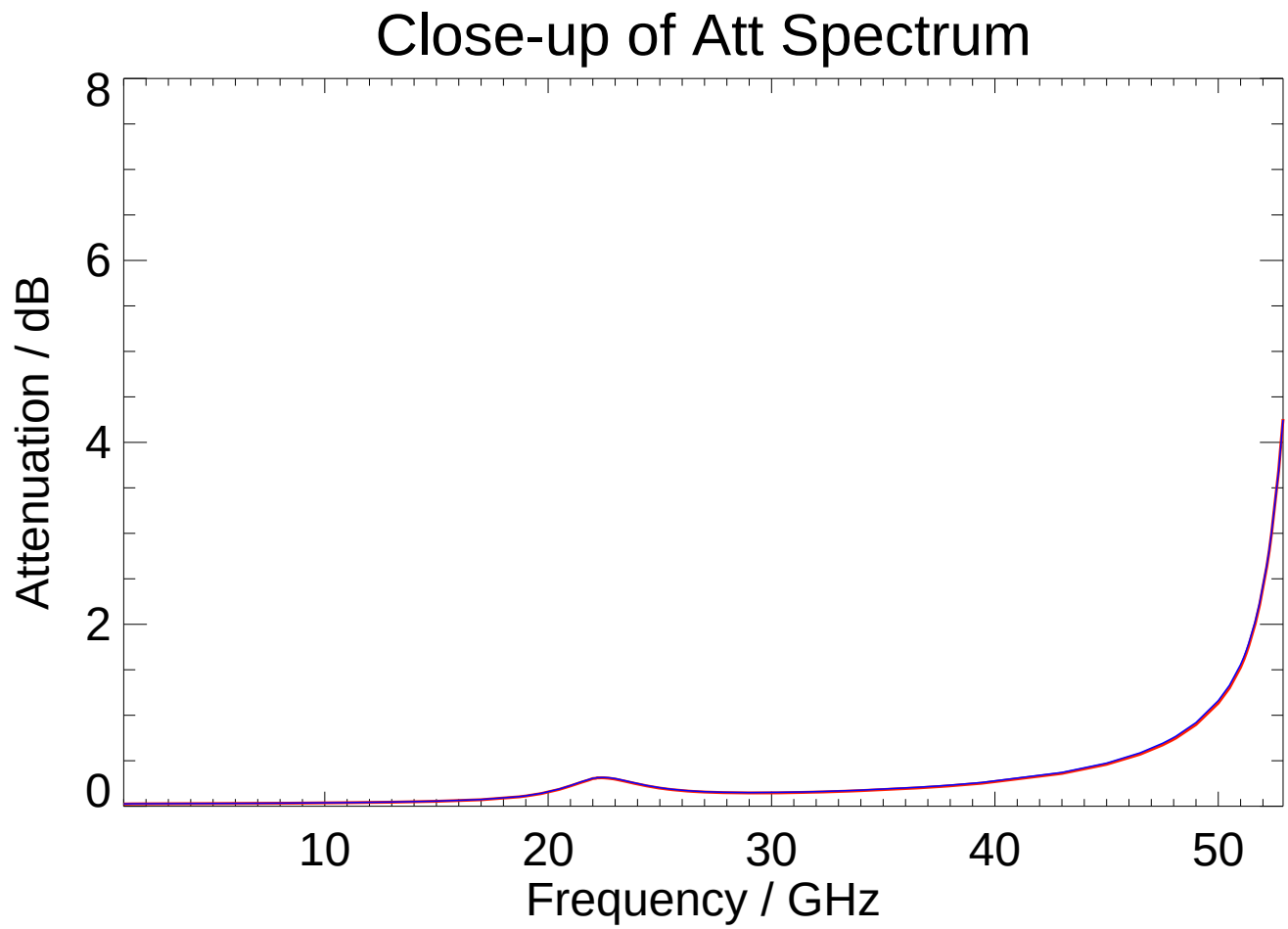
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
6
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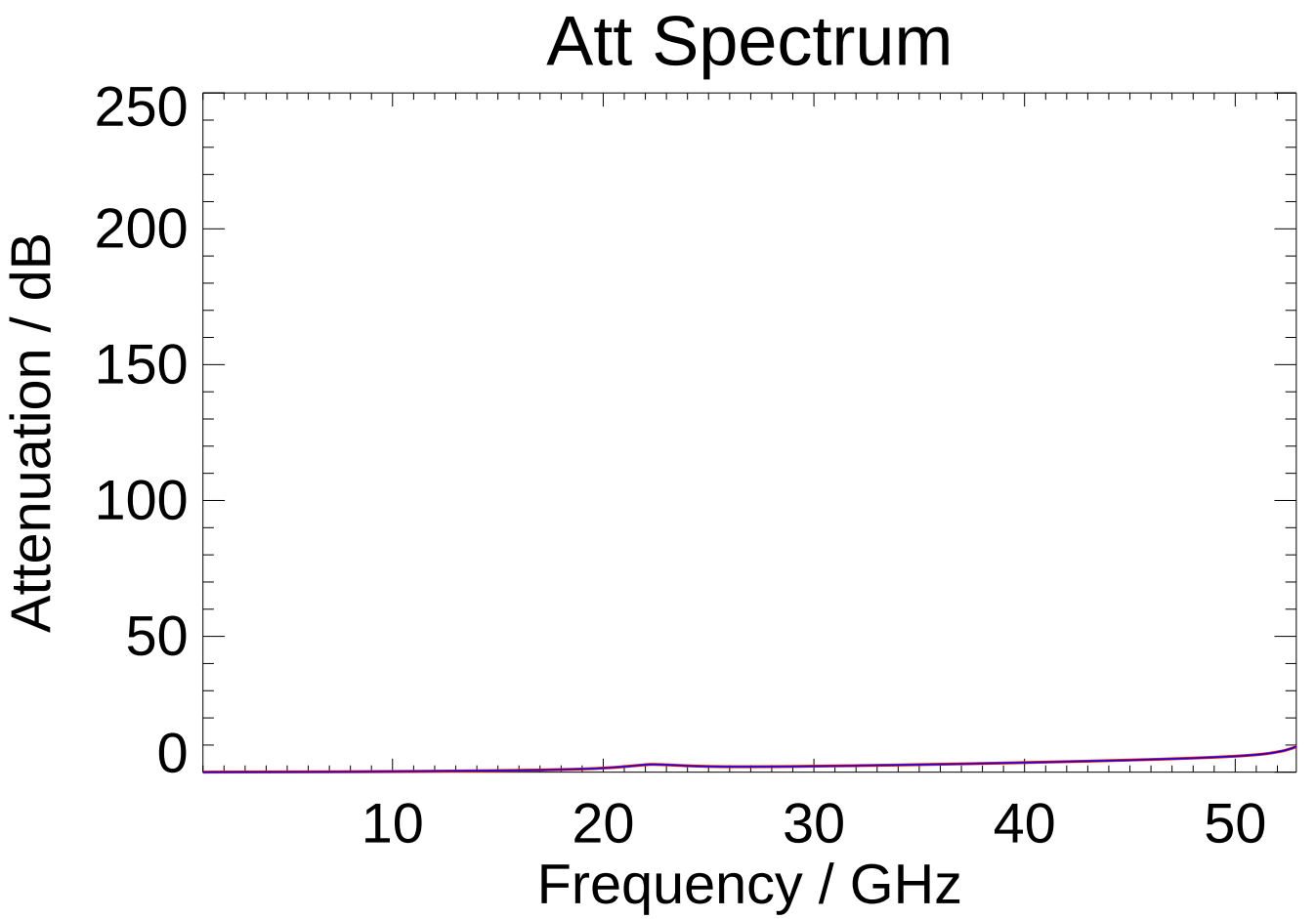
Frequency / GHz


Att Spectrum
Attenuation / dB
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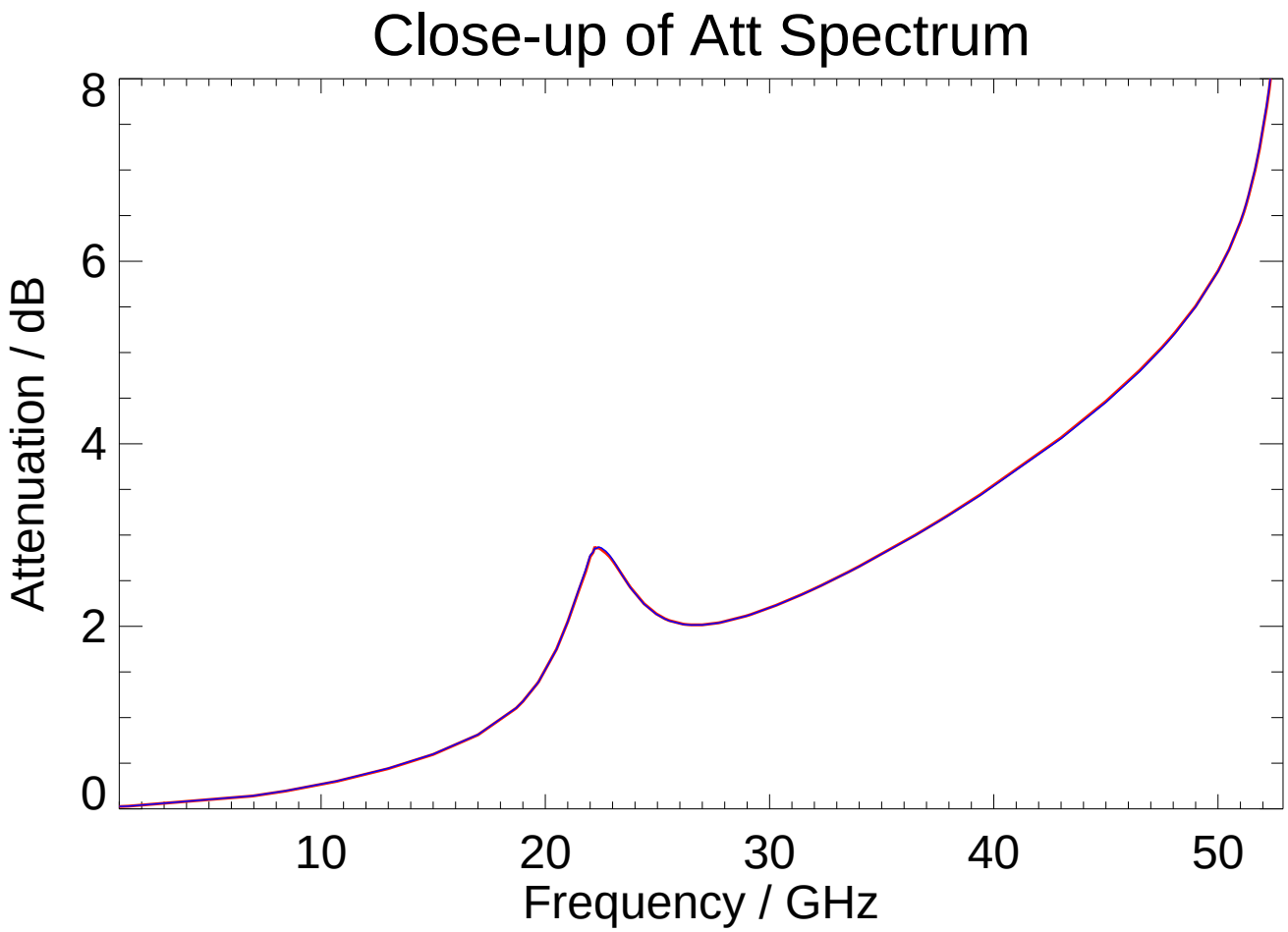
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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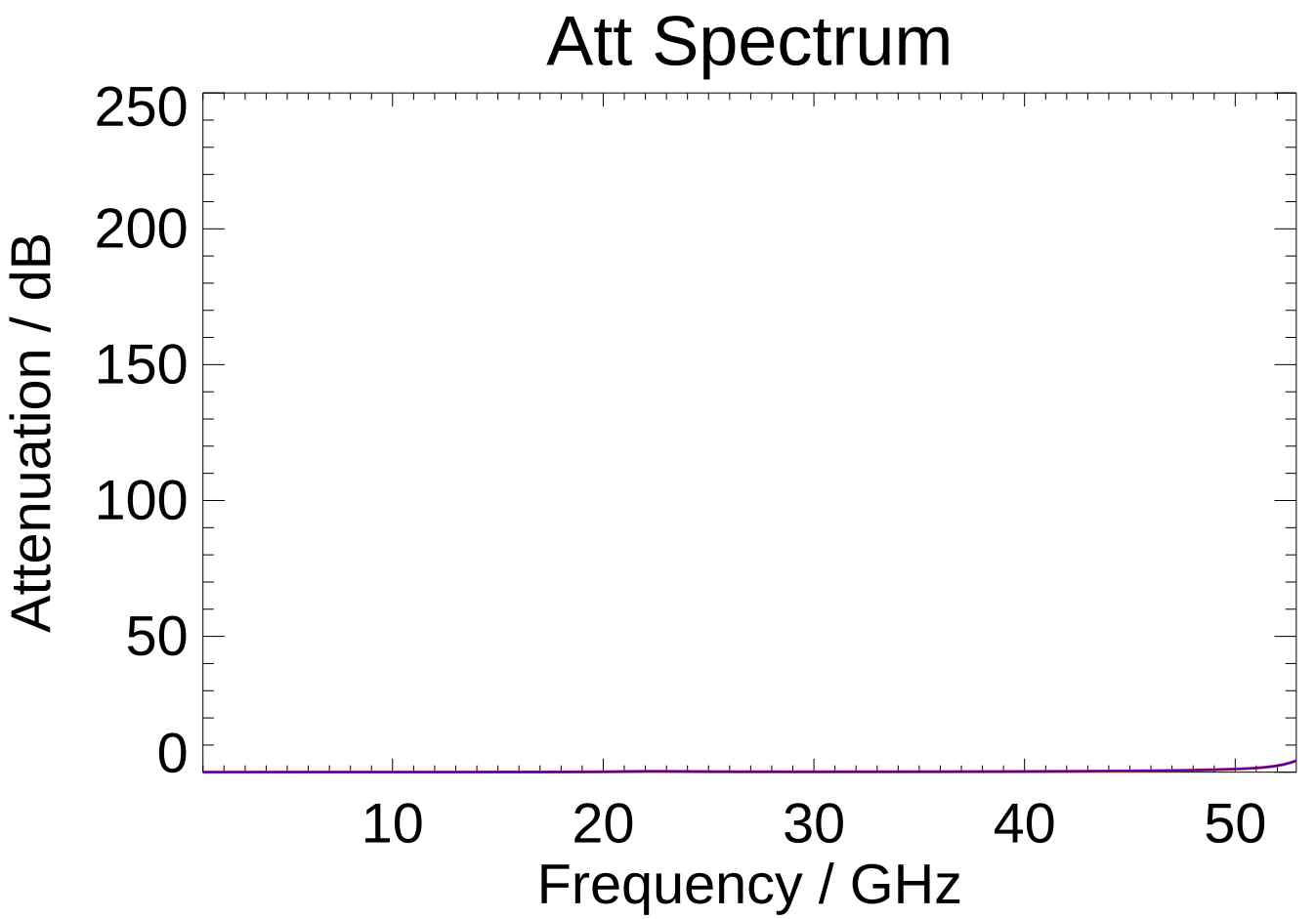
Frequency / GHz


Att Spectrum
Attenuation / dB
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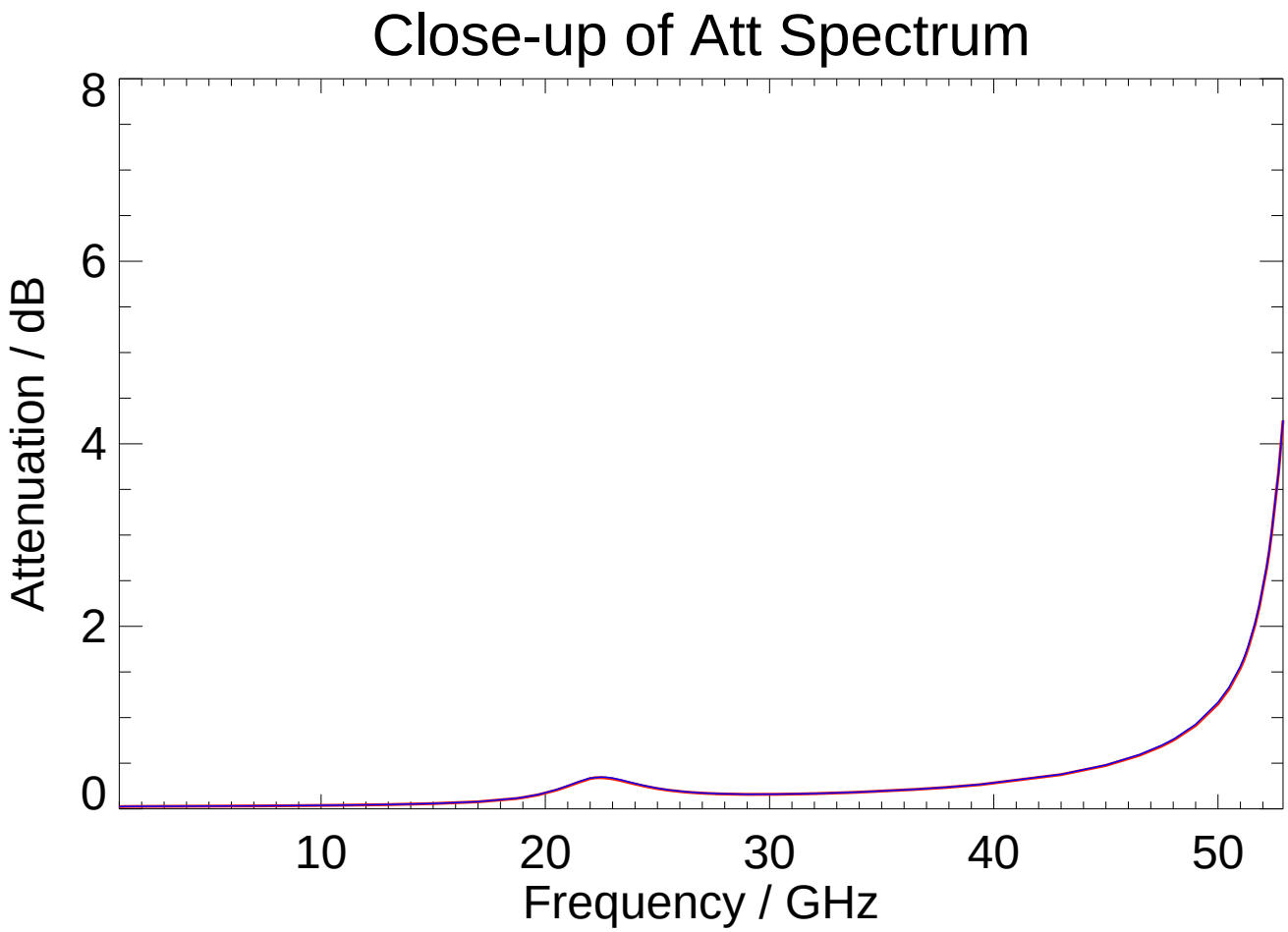
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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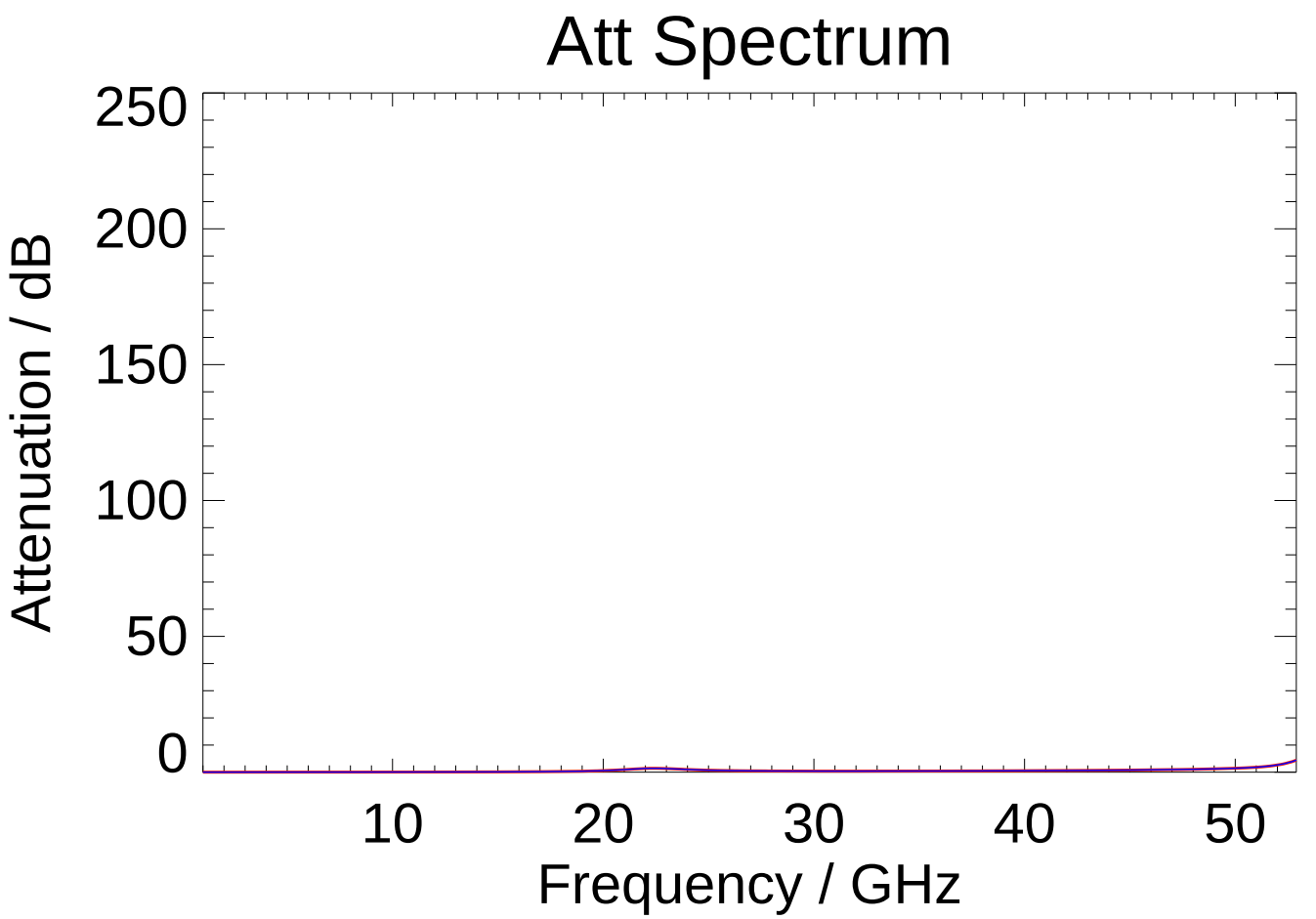
Frequency / GHz


Att Spectrum
Attenuation / dB
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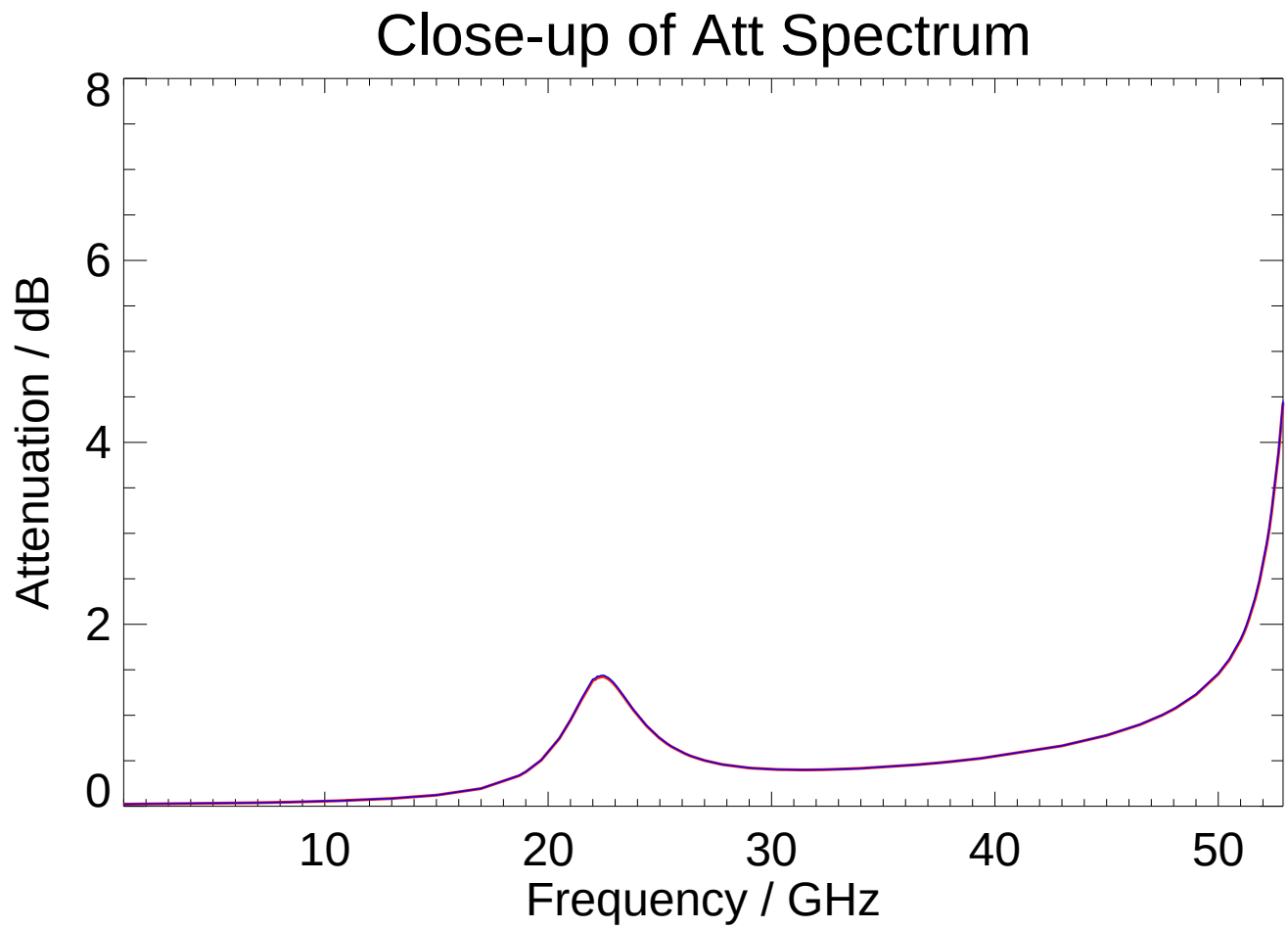
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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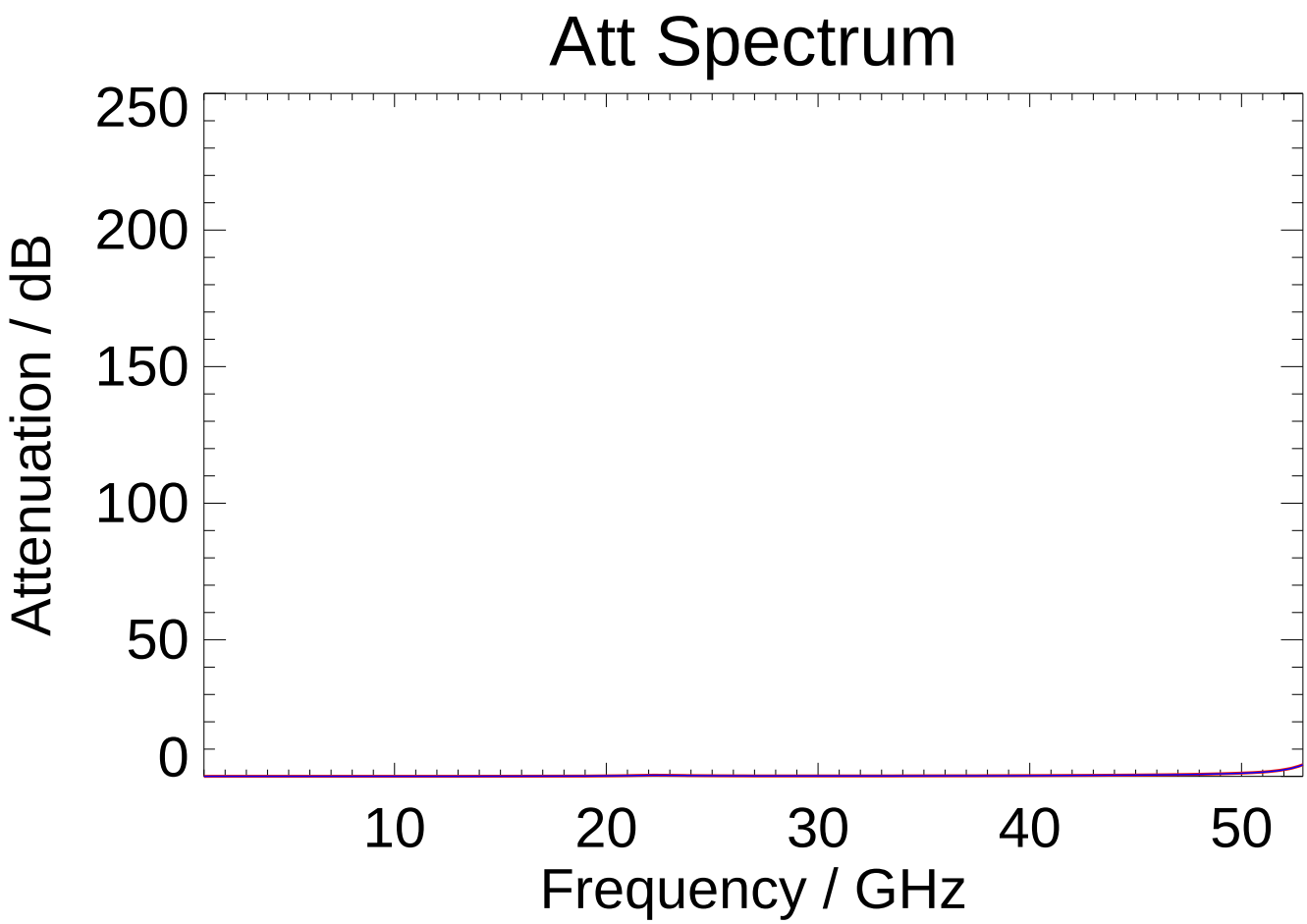
Frequency / GHz


Att Spectrum
Attenuation / dB
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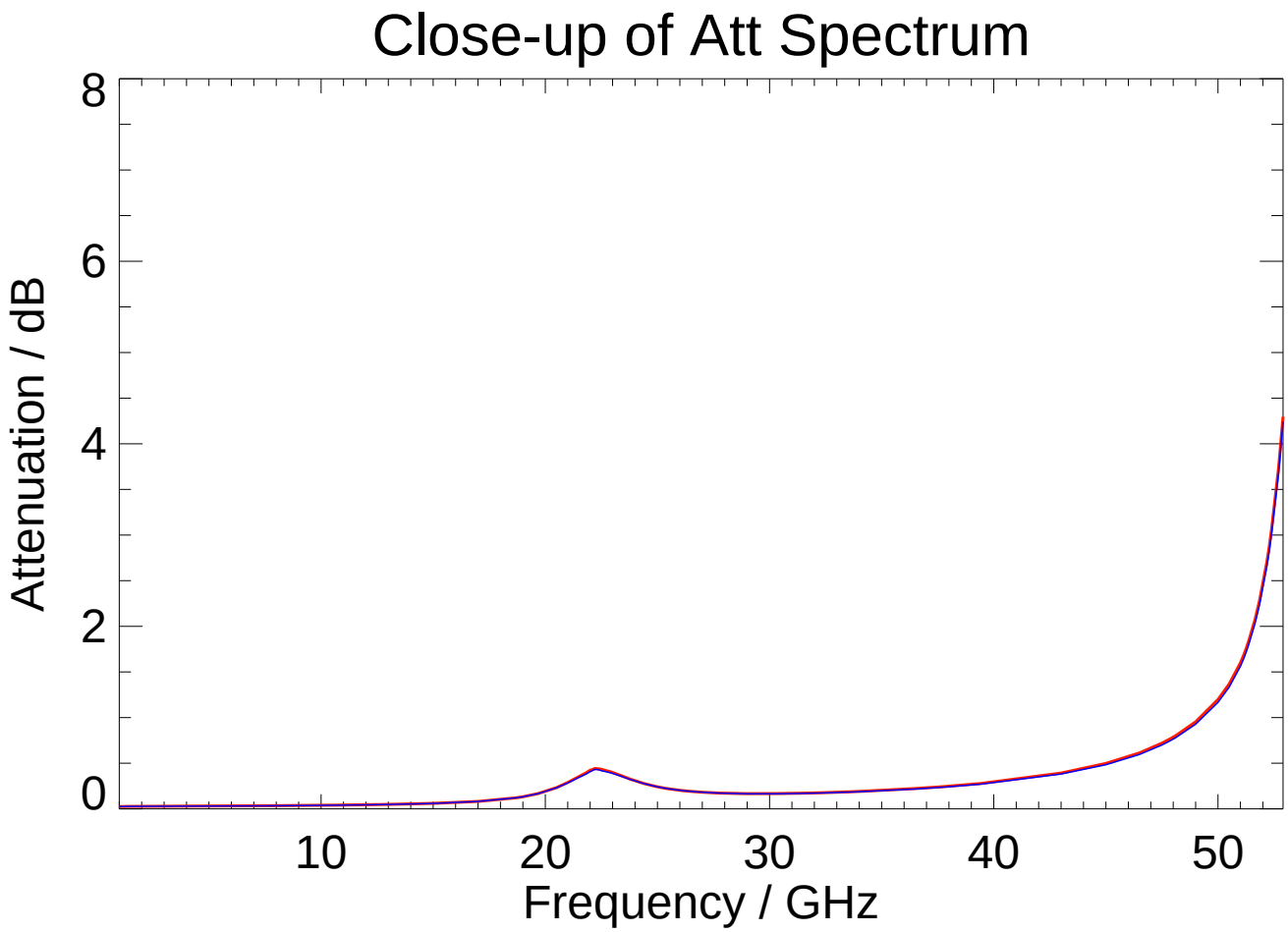
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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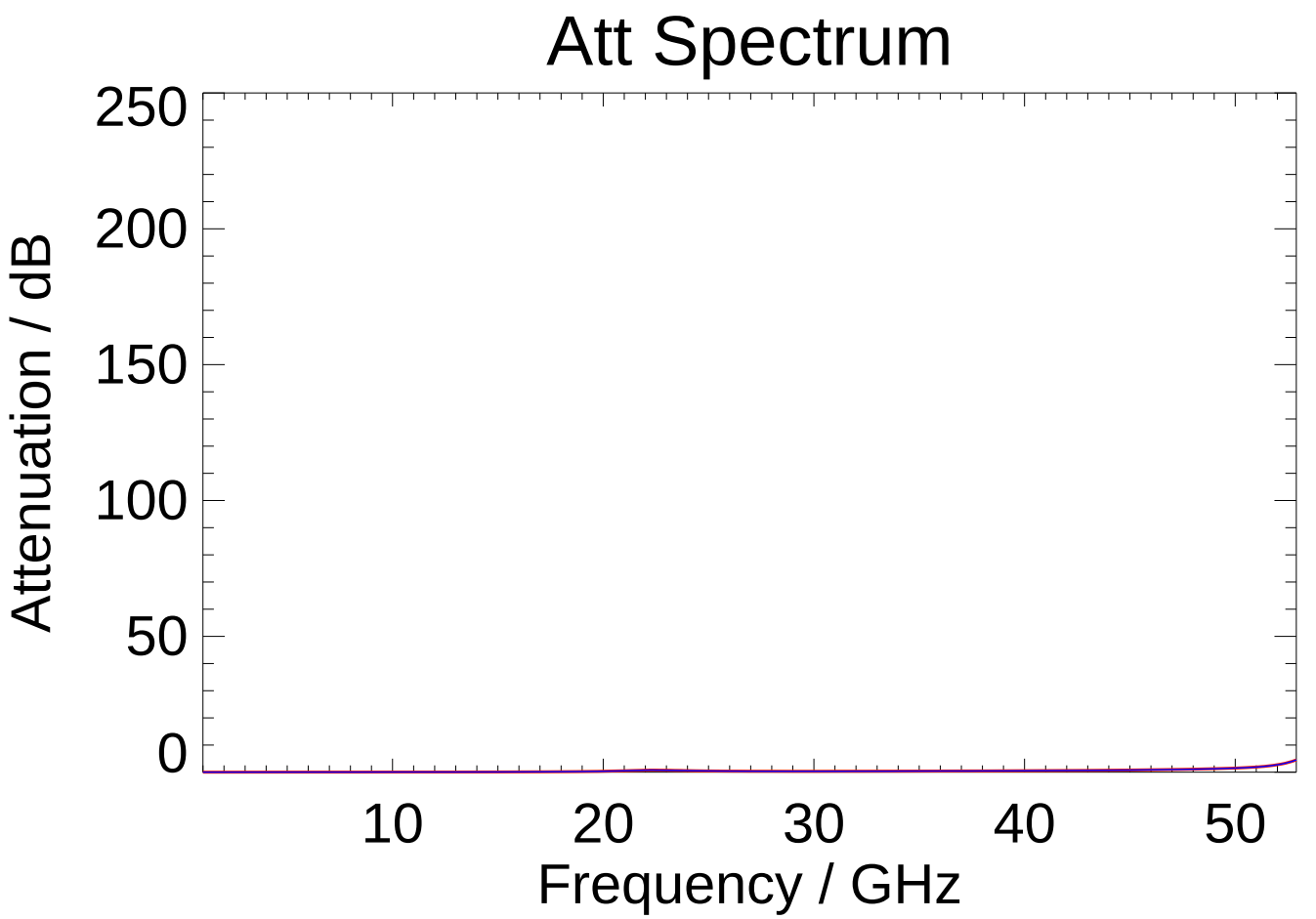
Frequency / GHz


Att Spectrum
Attenuation / dB
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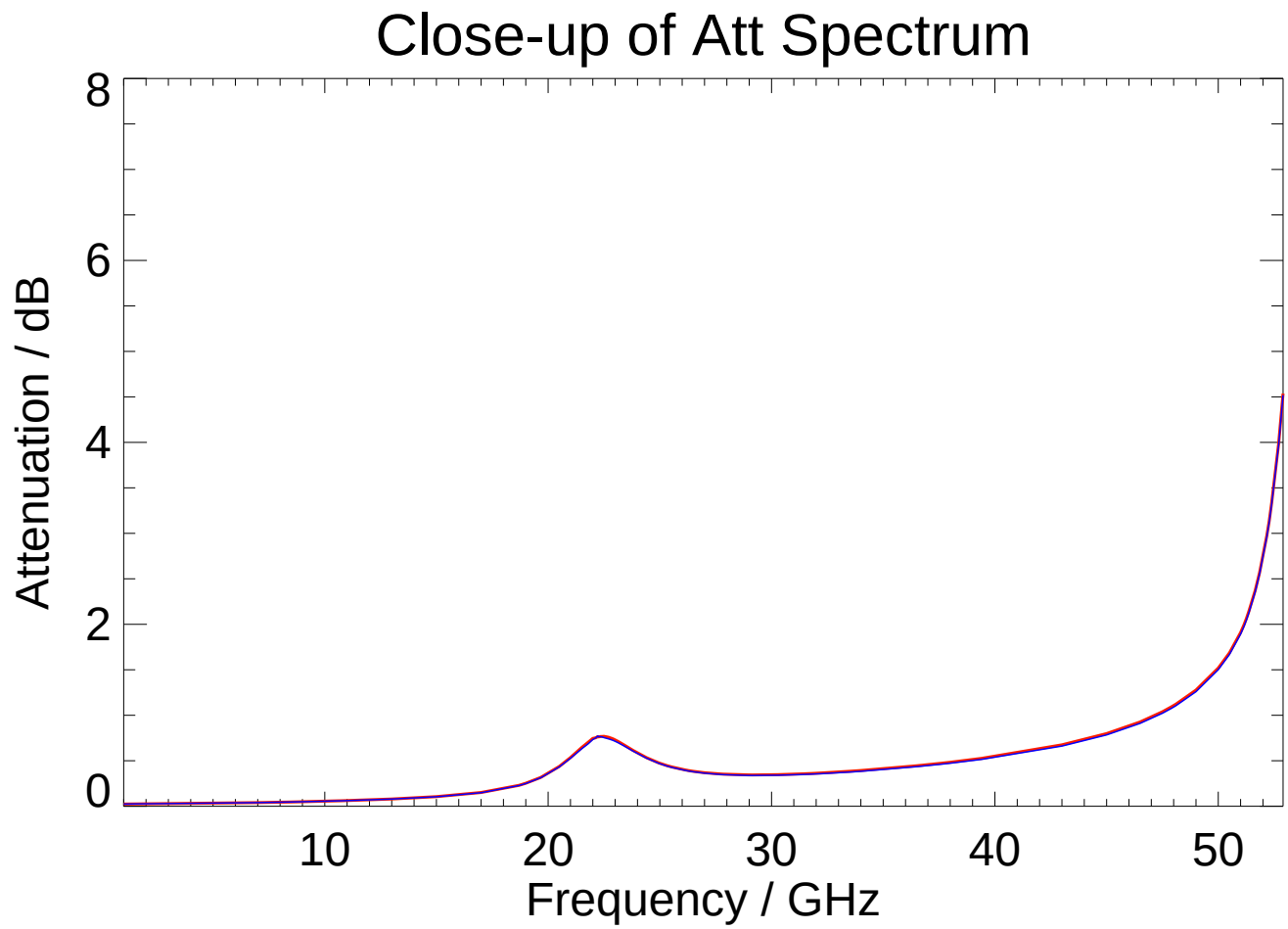
50
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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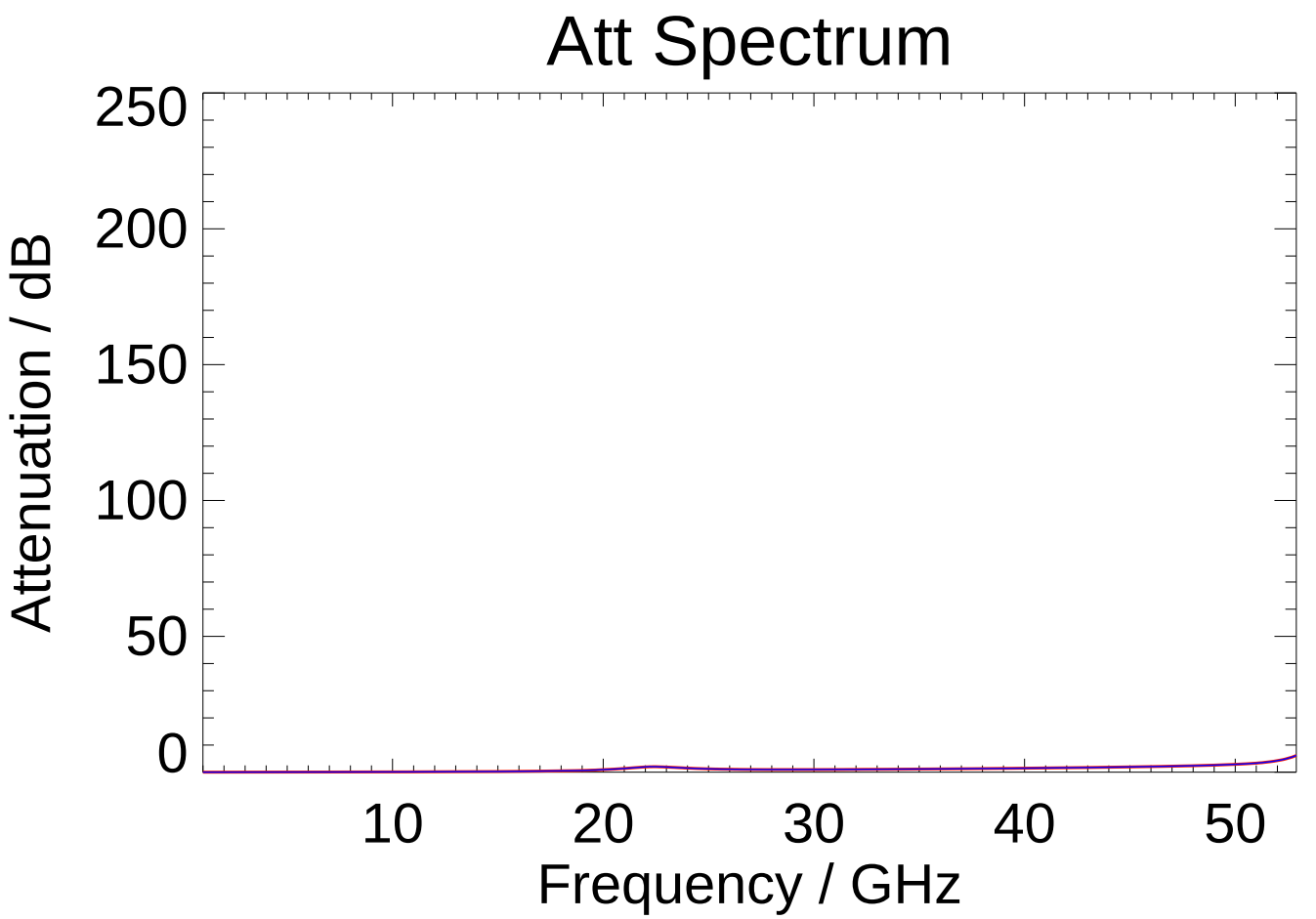
Frequency / GHz


Att Spectrum
Attenuation / dB
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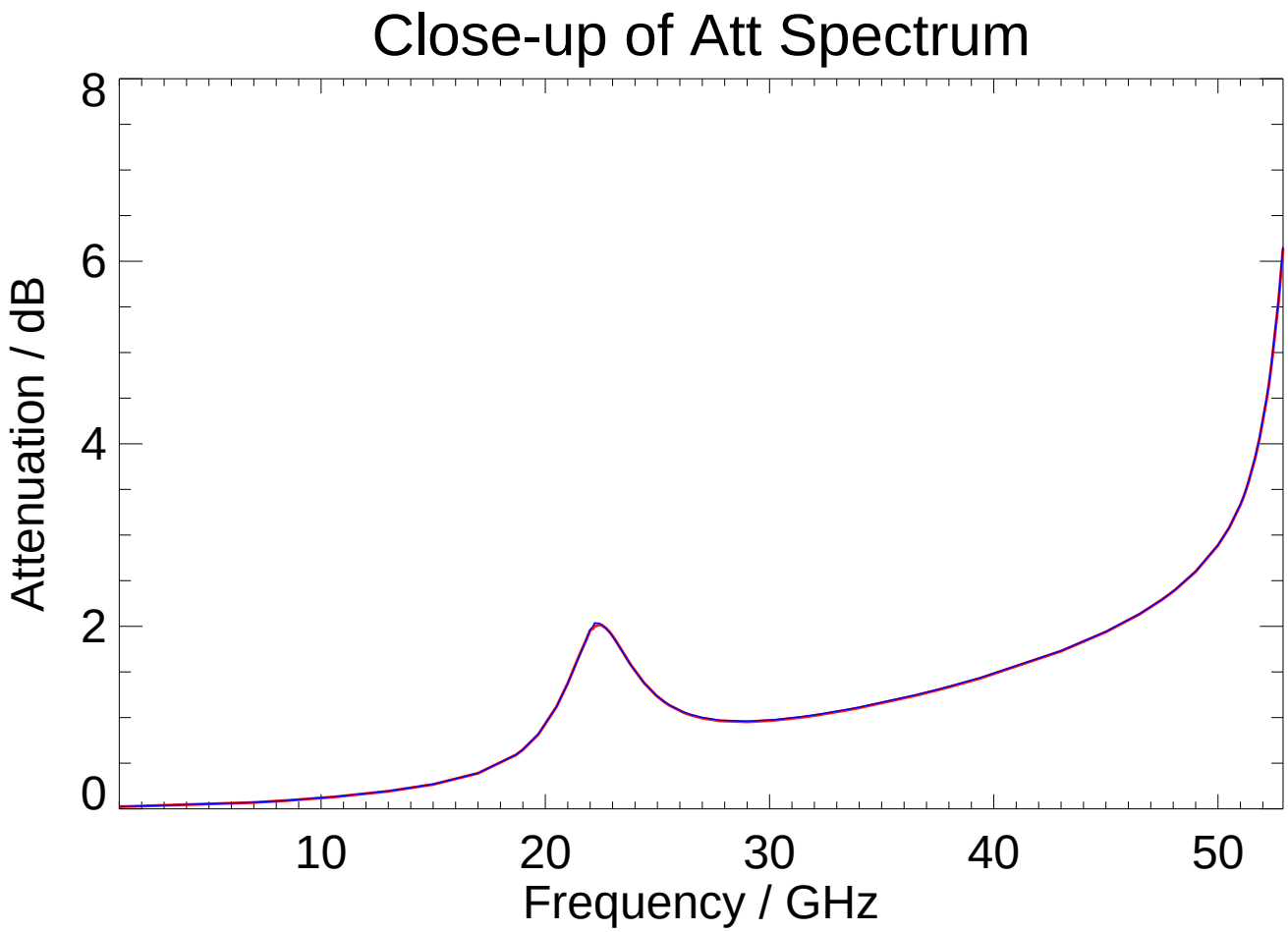
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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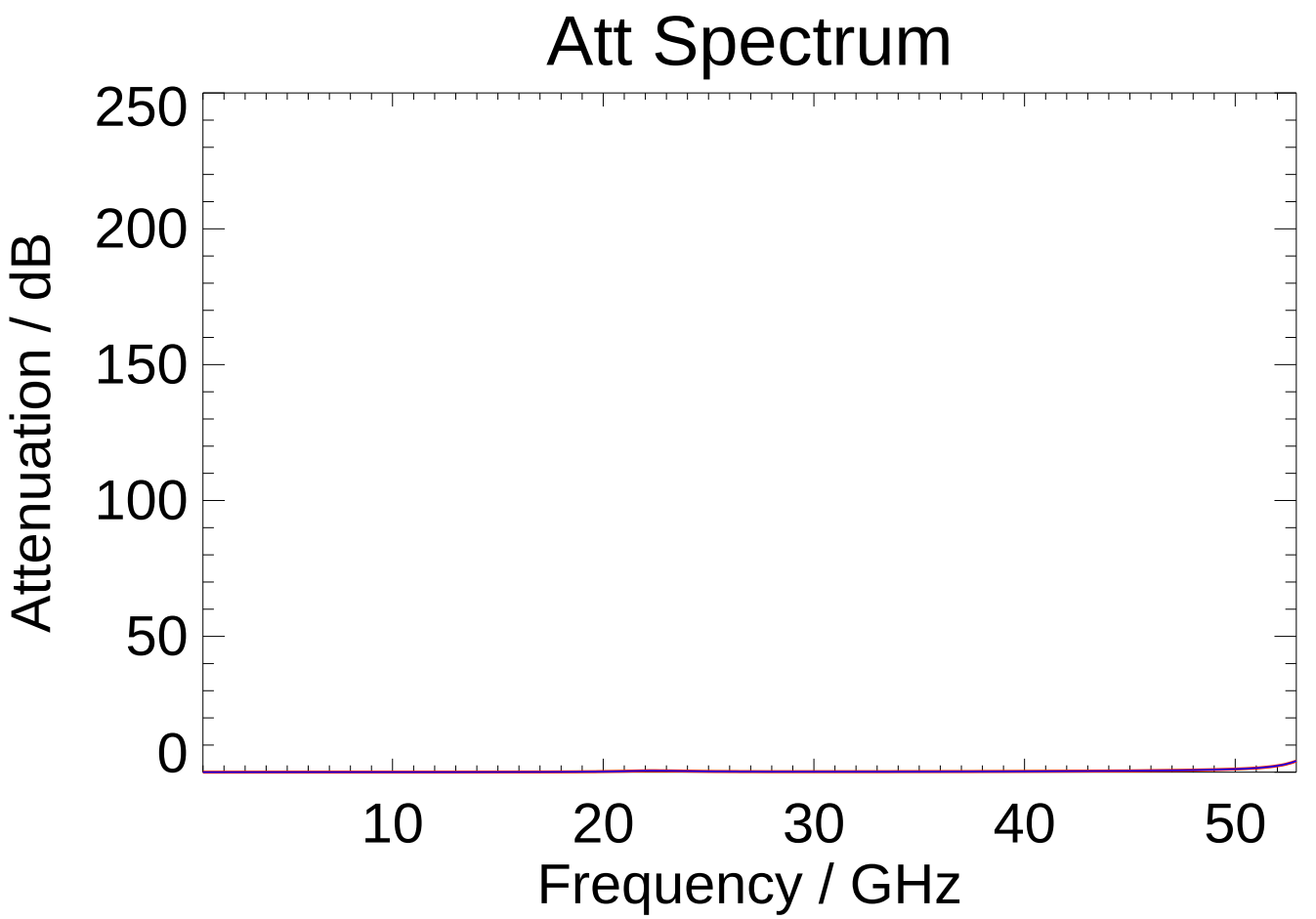
Frequency / GHz


Att Spectrum
Attenuation / dB
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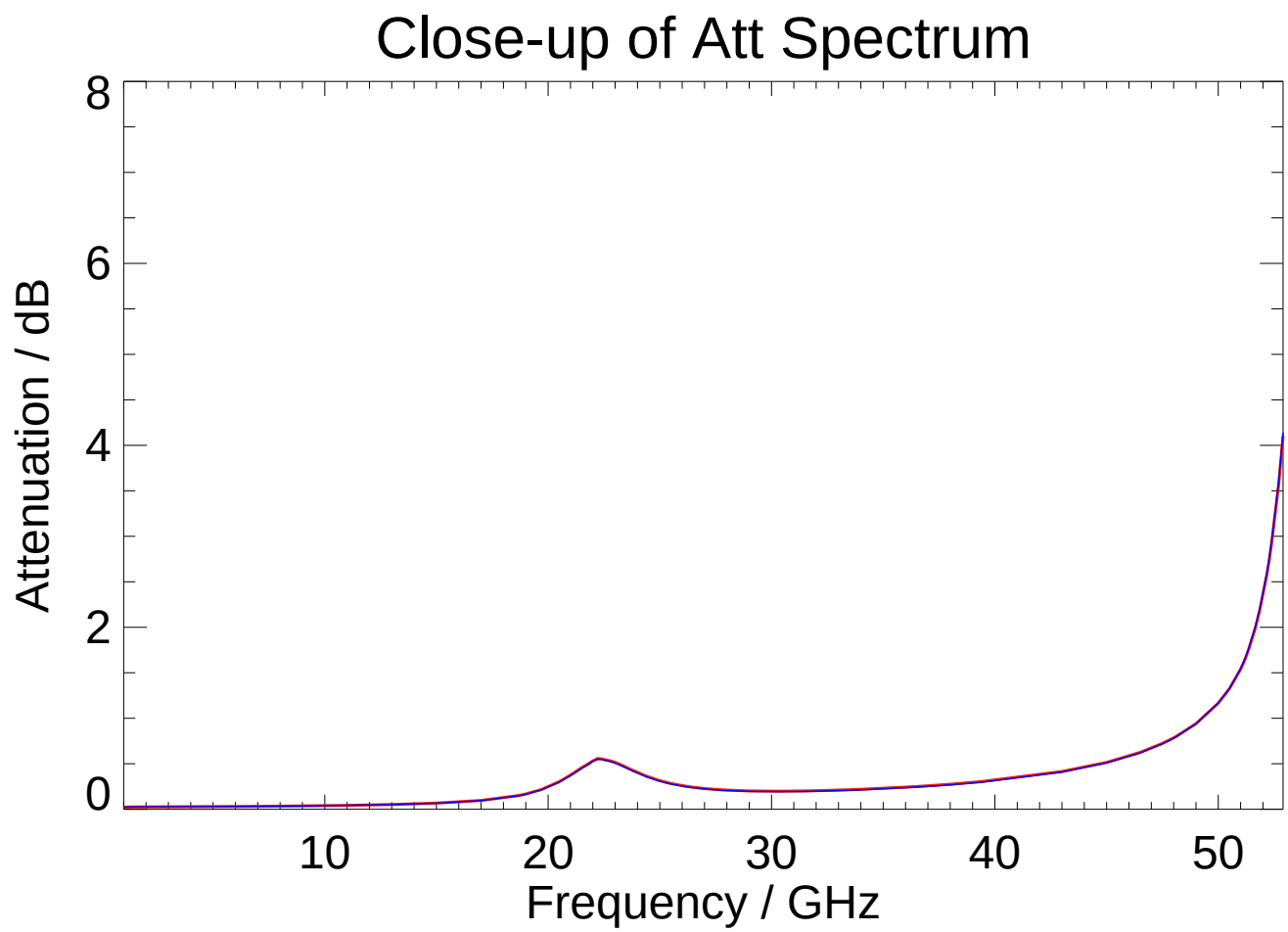
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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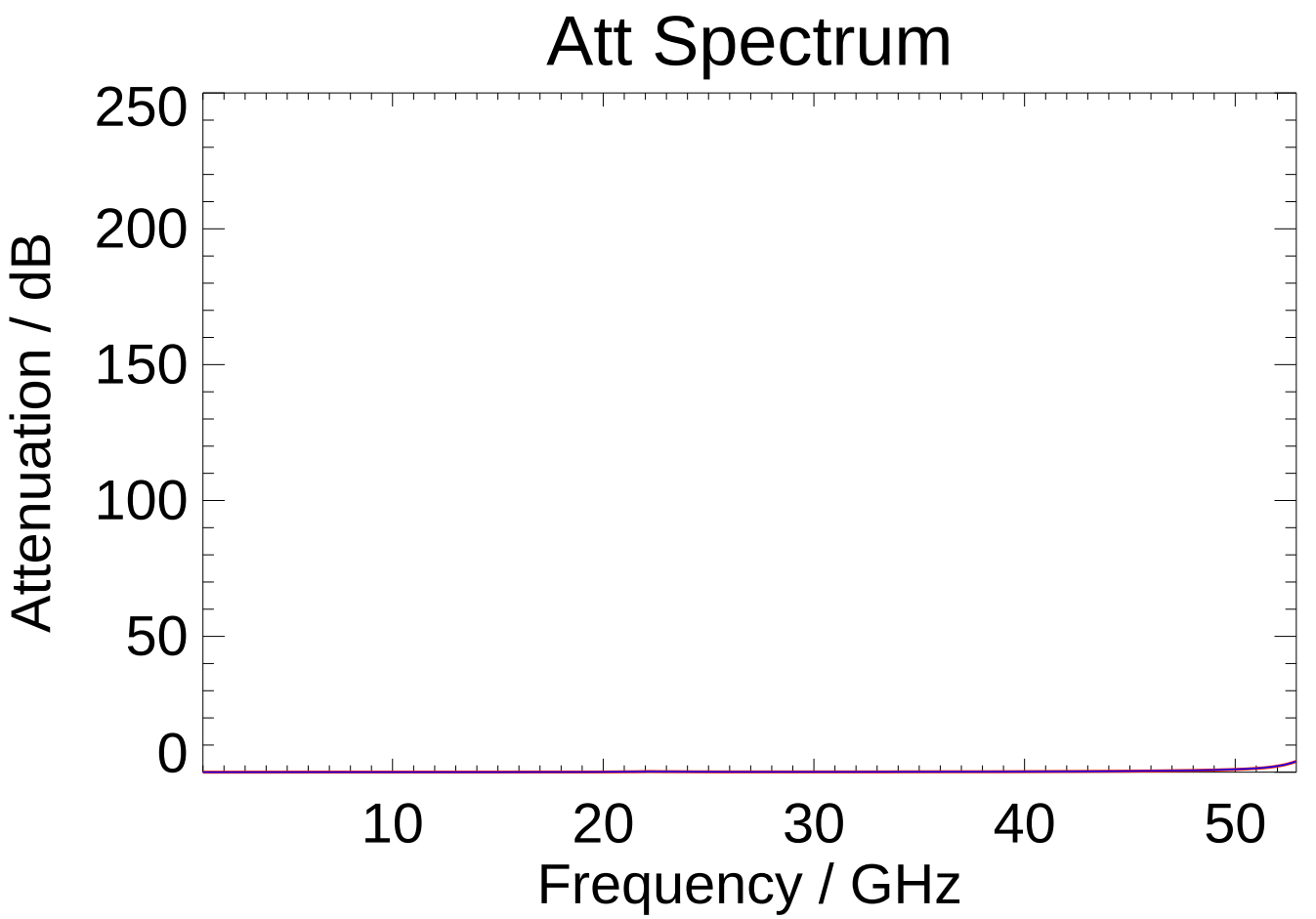
Frequency / GHz


Att Spectrum
Attenuation / dB
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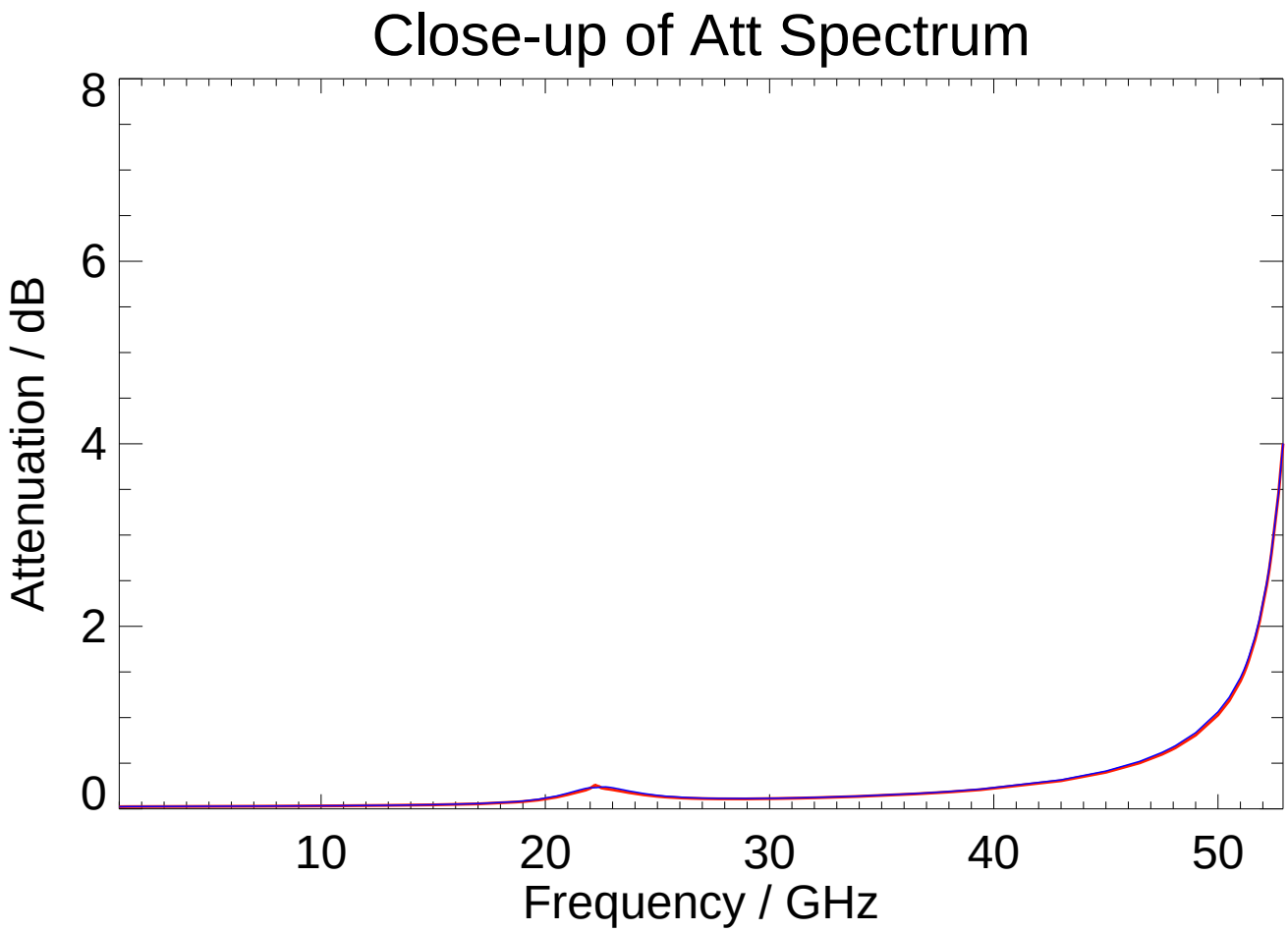
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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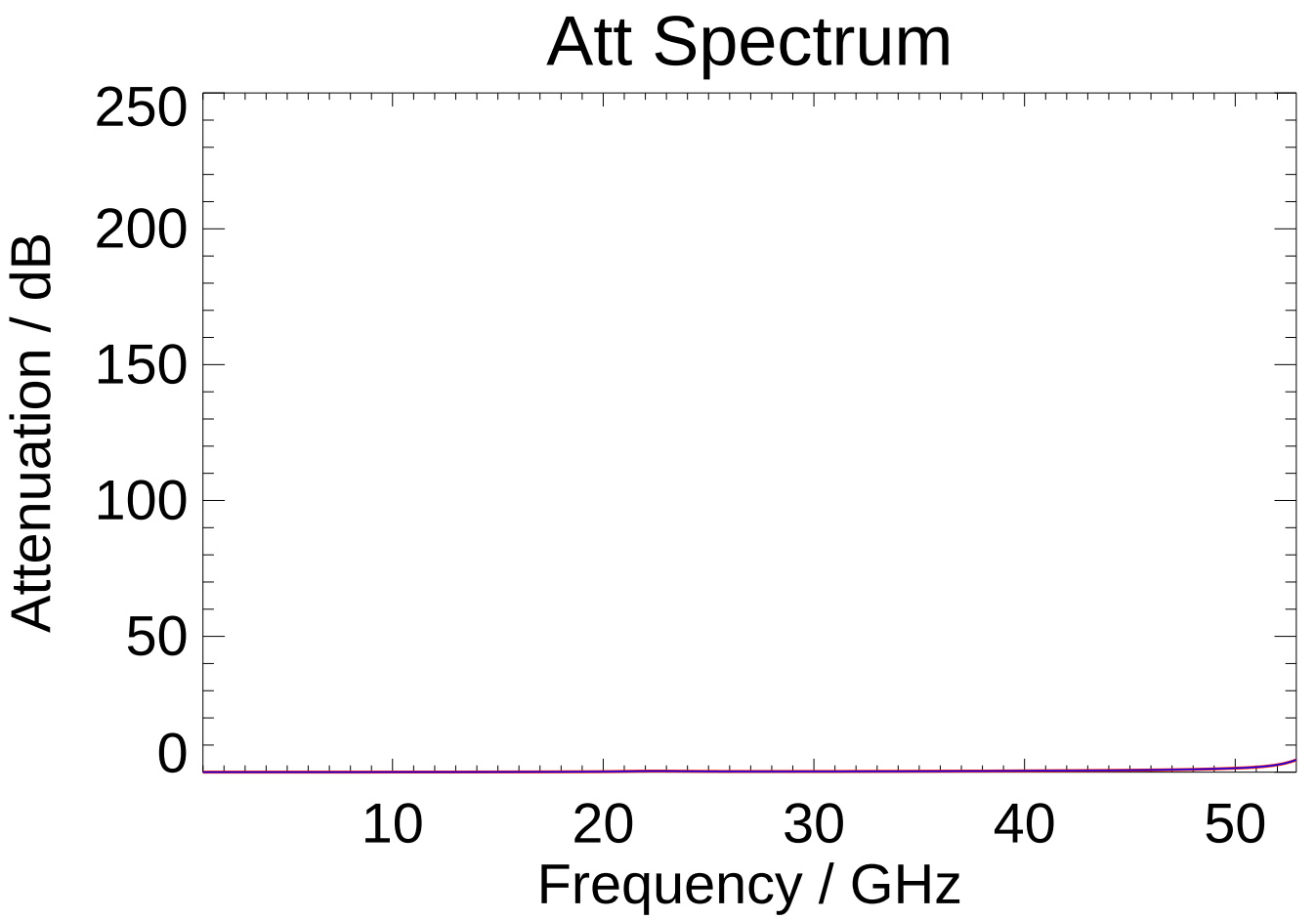
Frequency / GHz


Att Spectrum
Attenuation / dB
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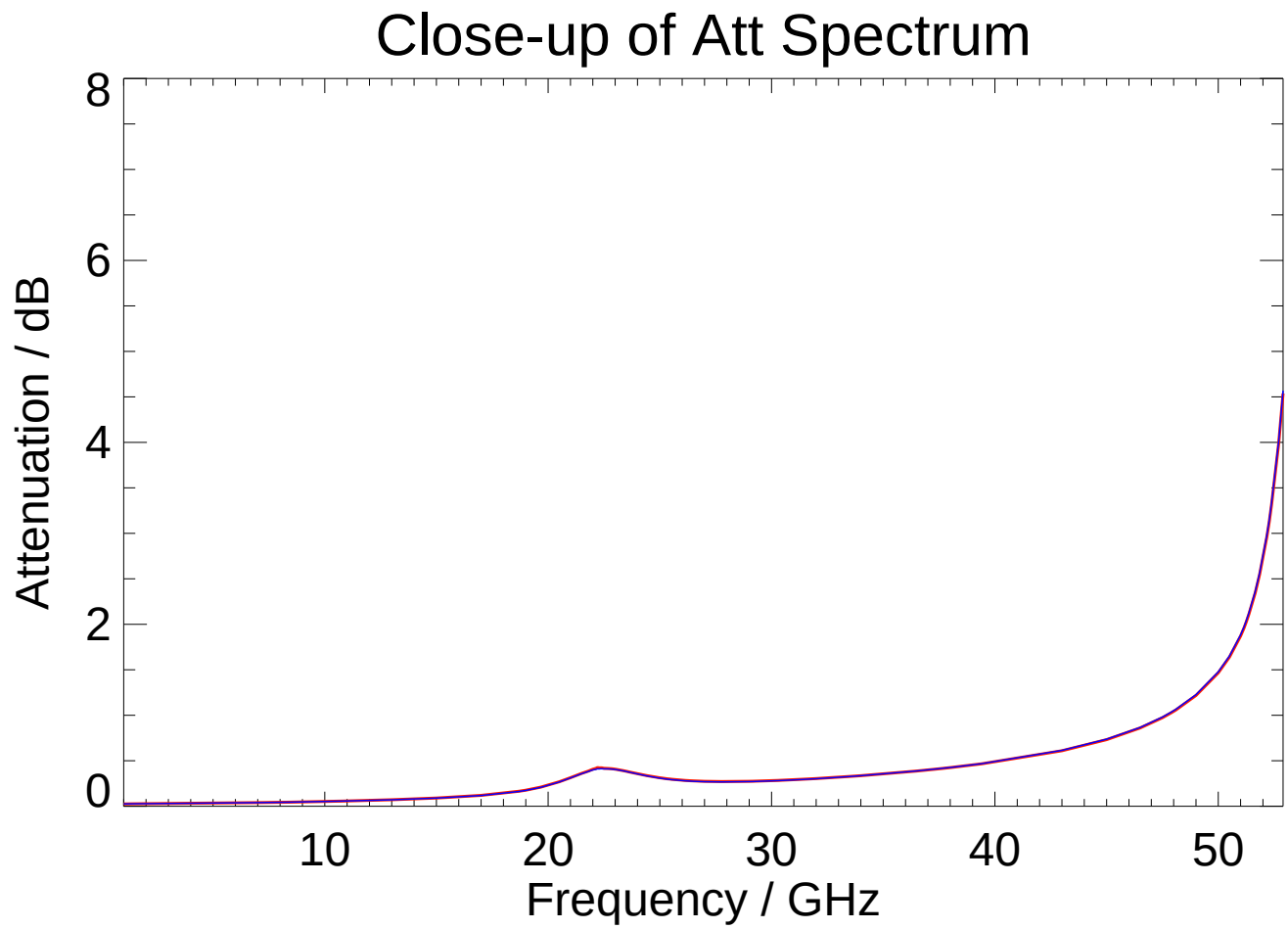
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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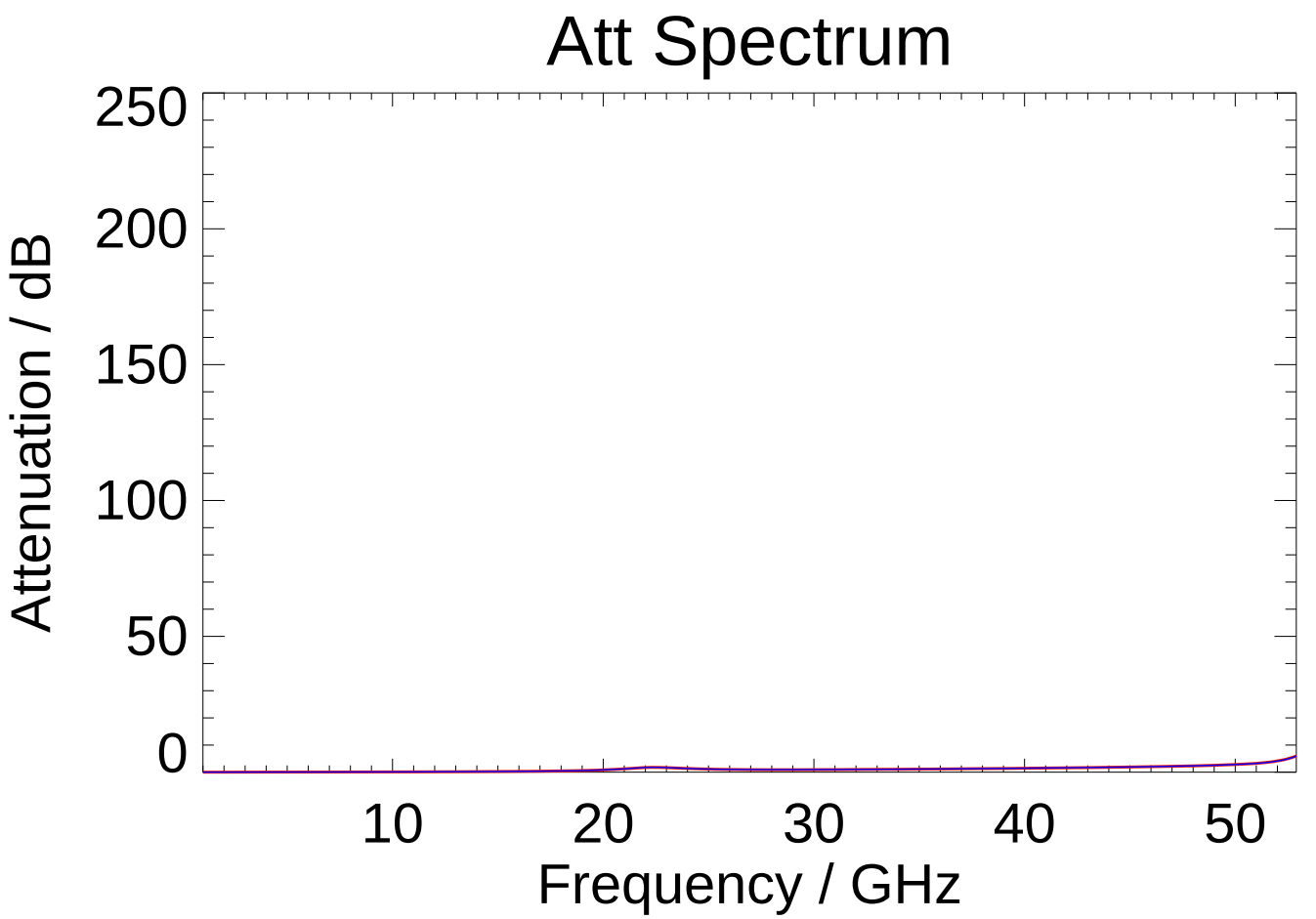
Frequency / GHz


Att Spectrum
Attenuation / dB
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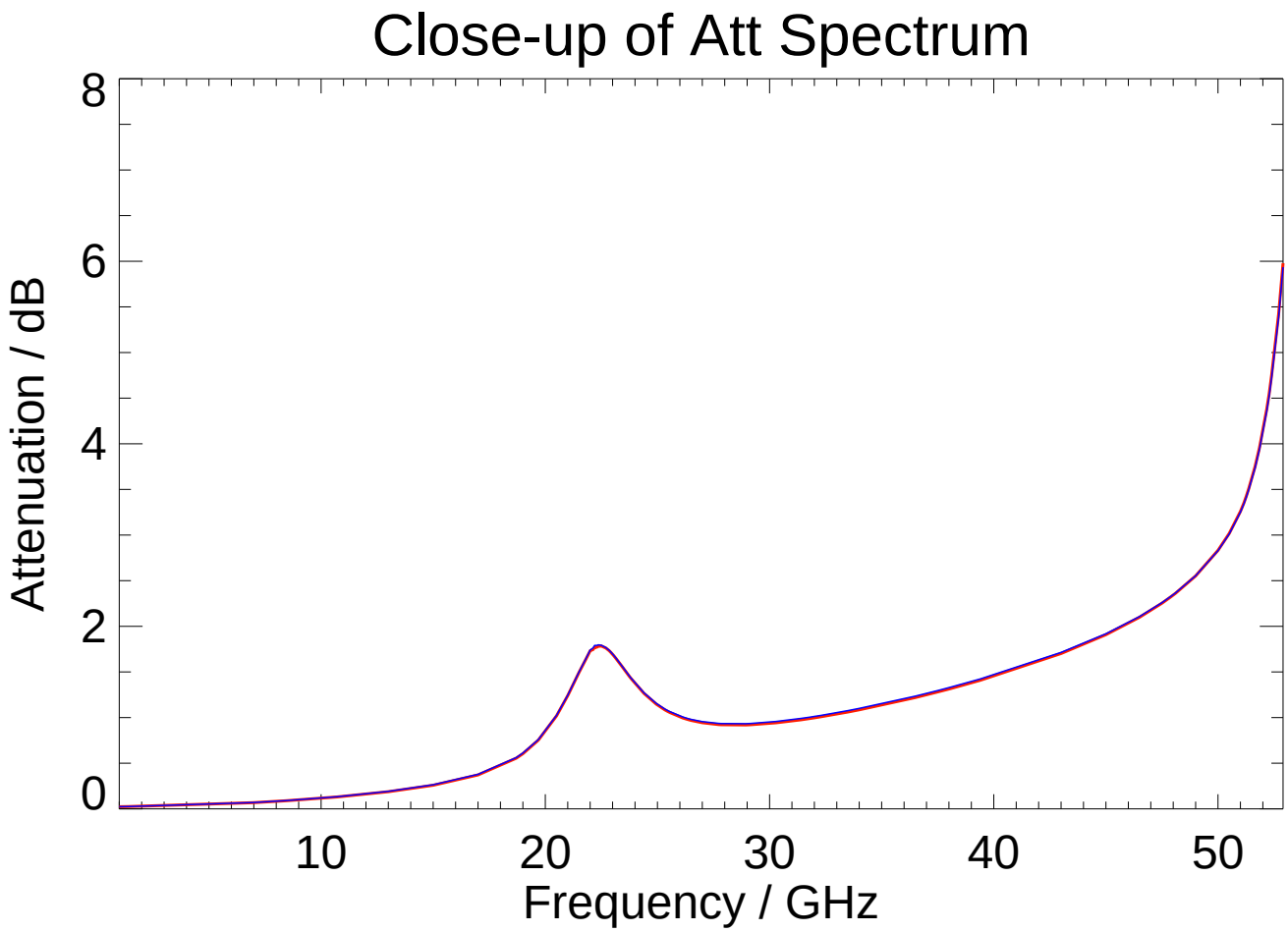
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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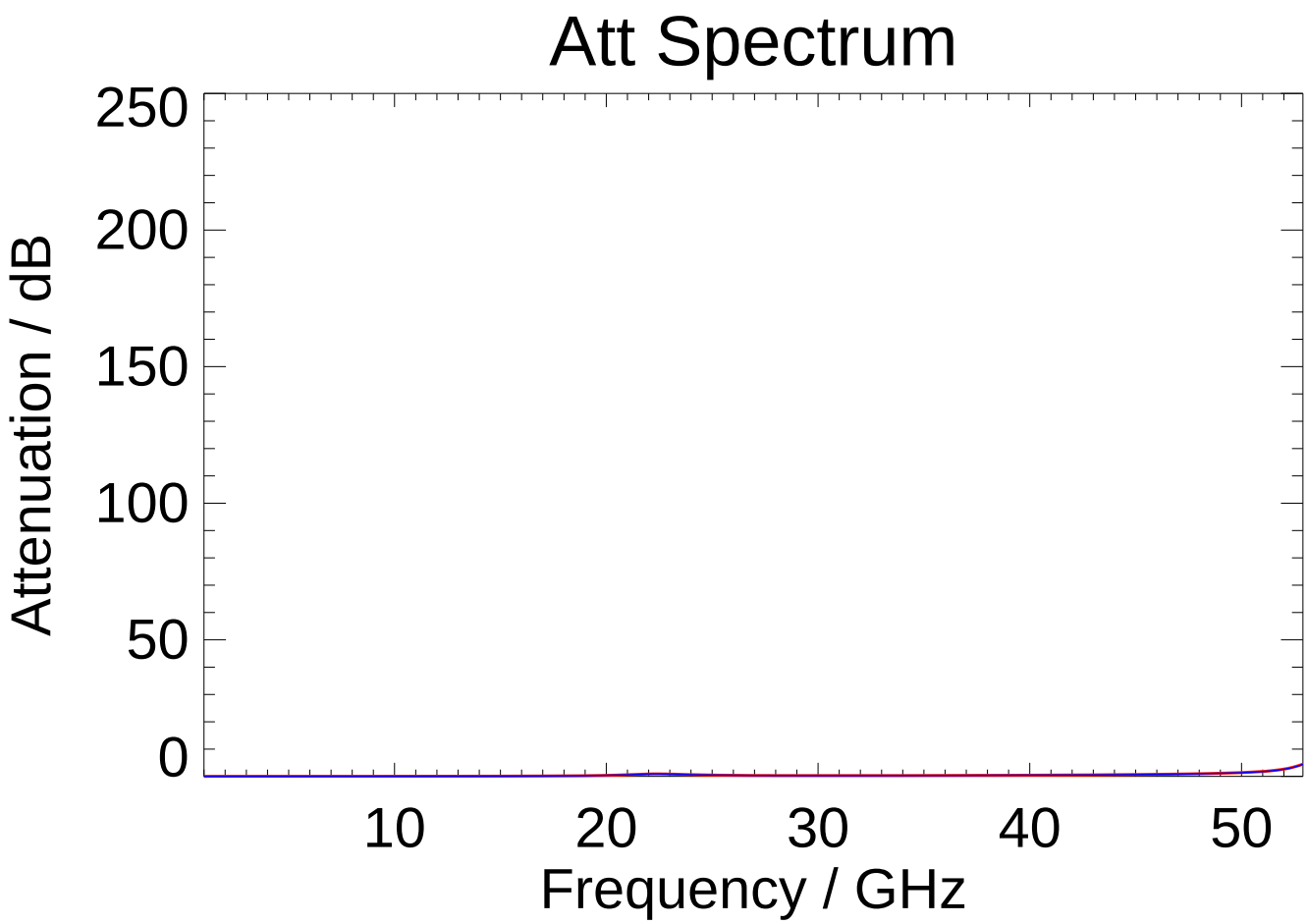
Frequency / GHz


Att Spectrum
Attenuation / dB
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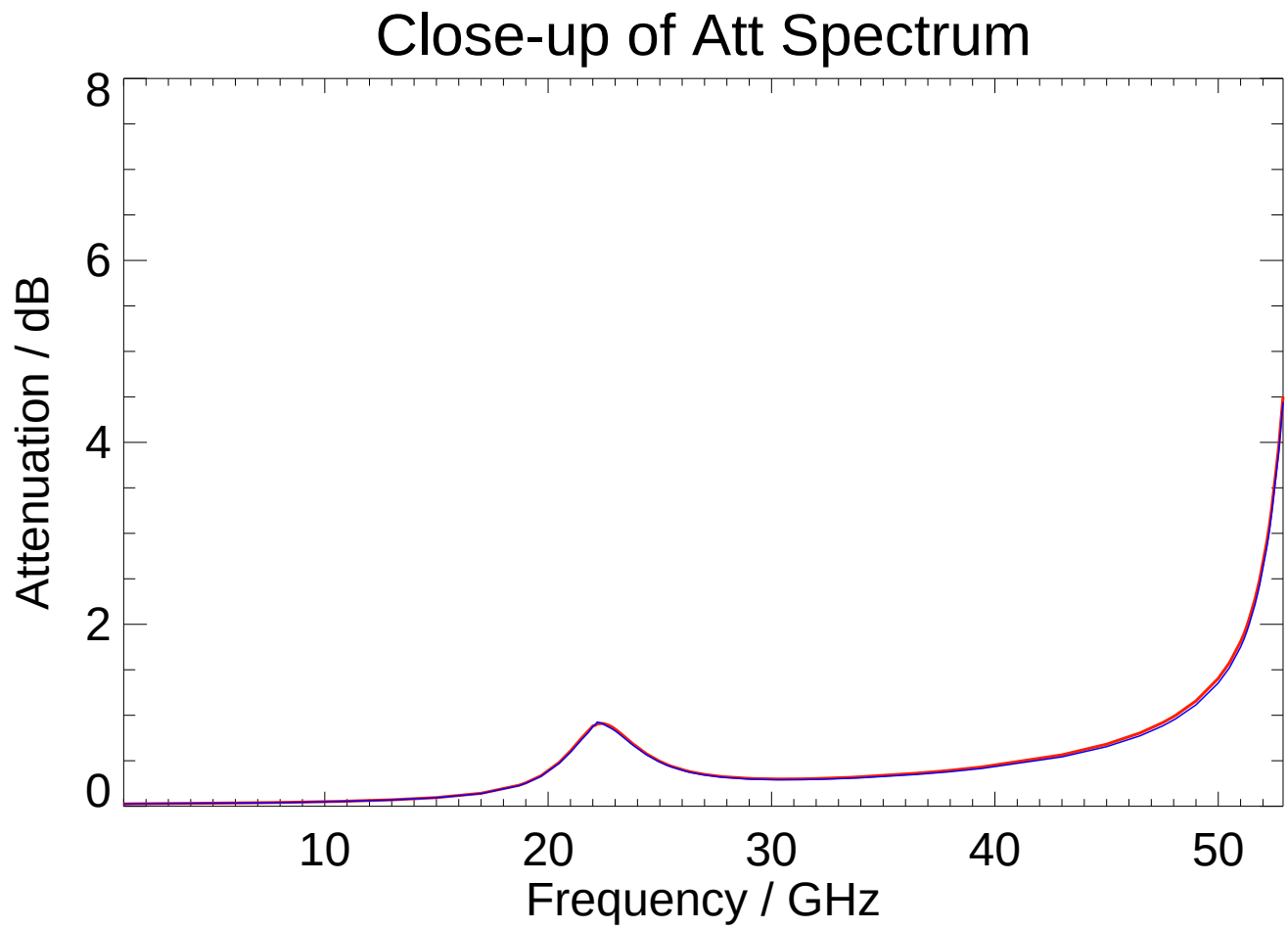
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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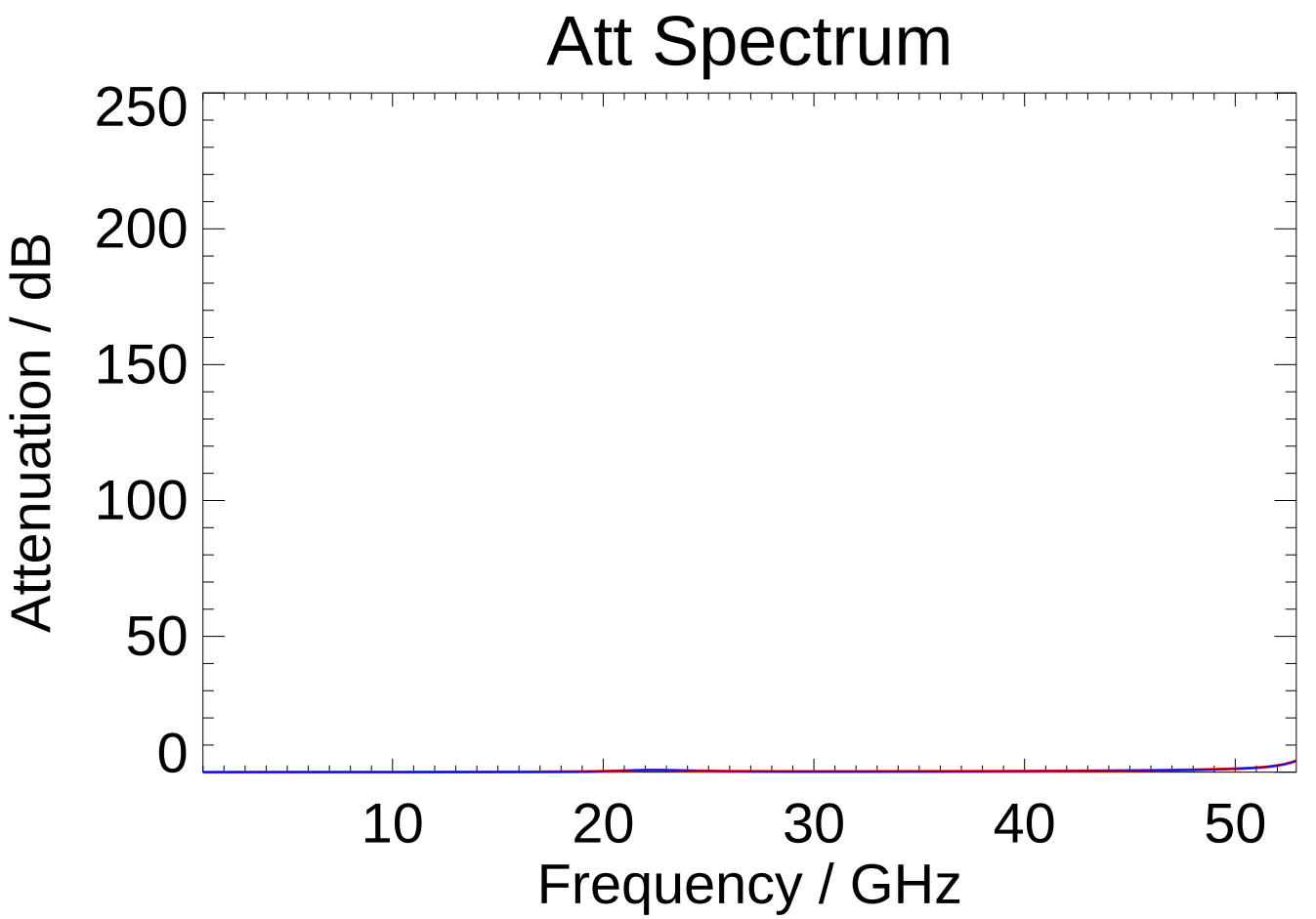
Frequency / GHz


Att Spectrum
Attenuation / dB
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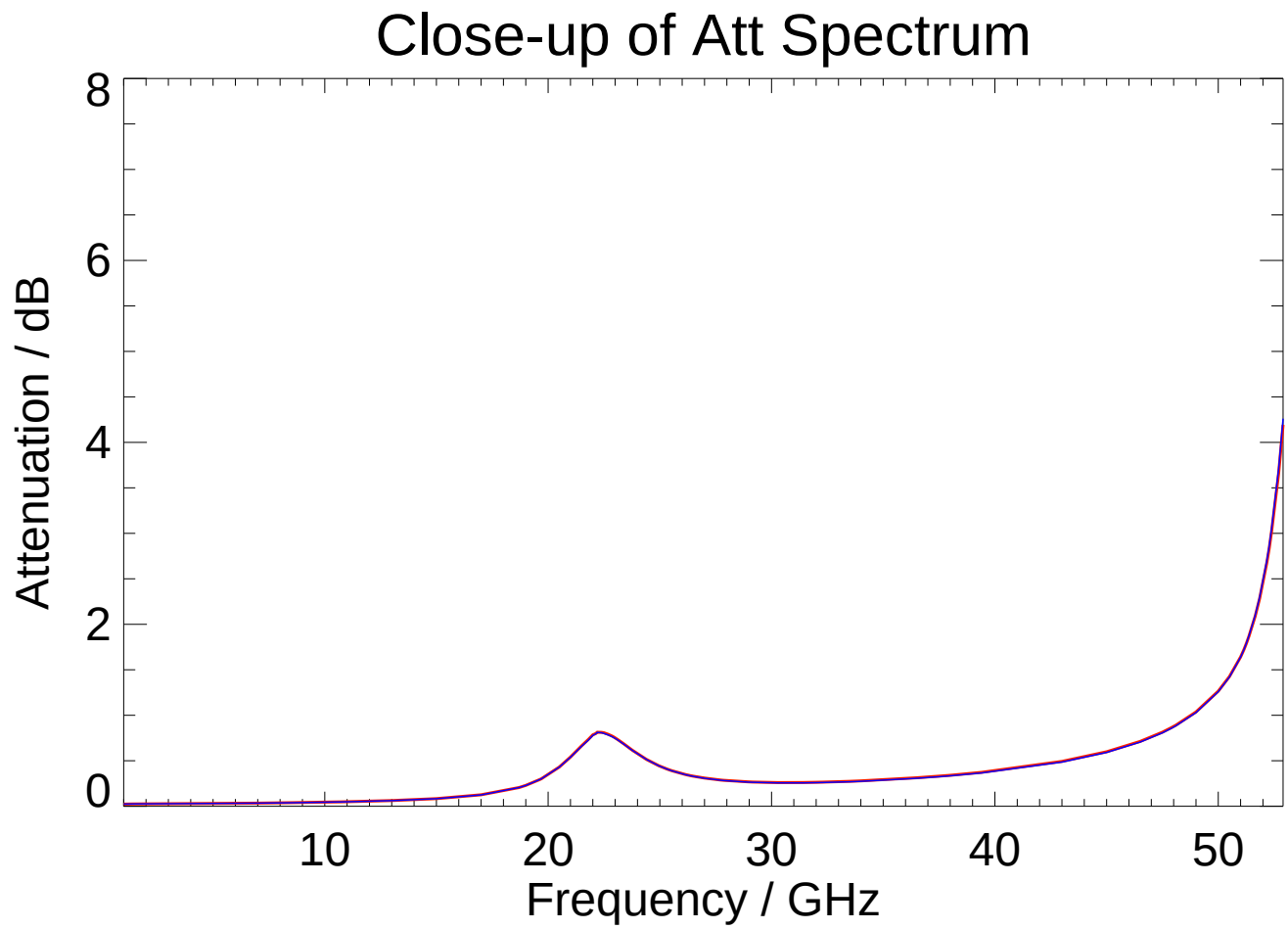
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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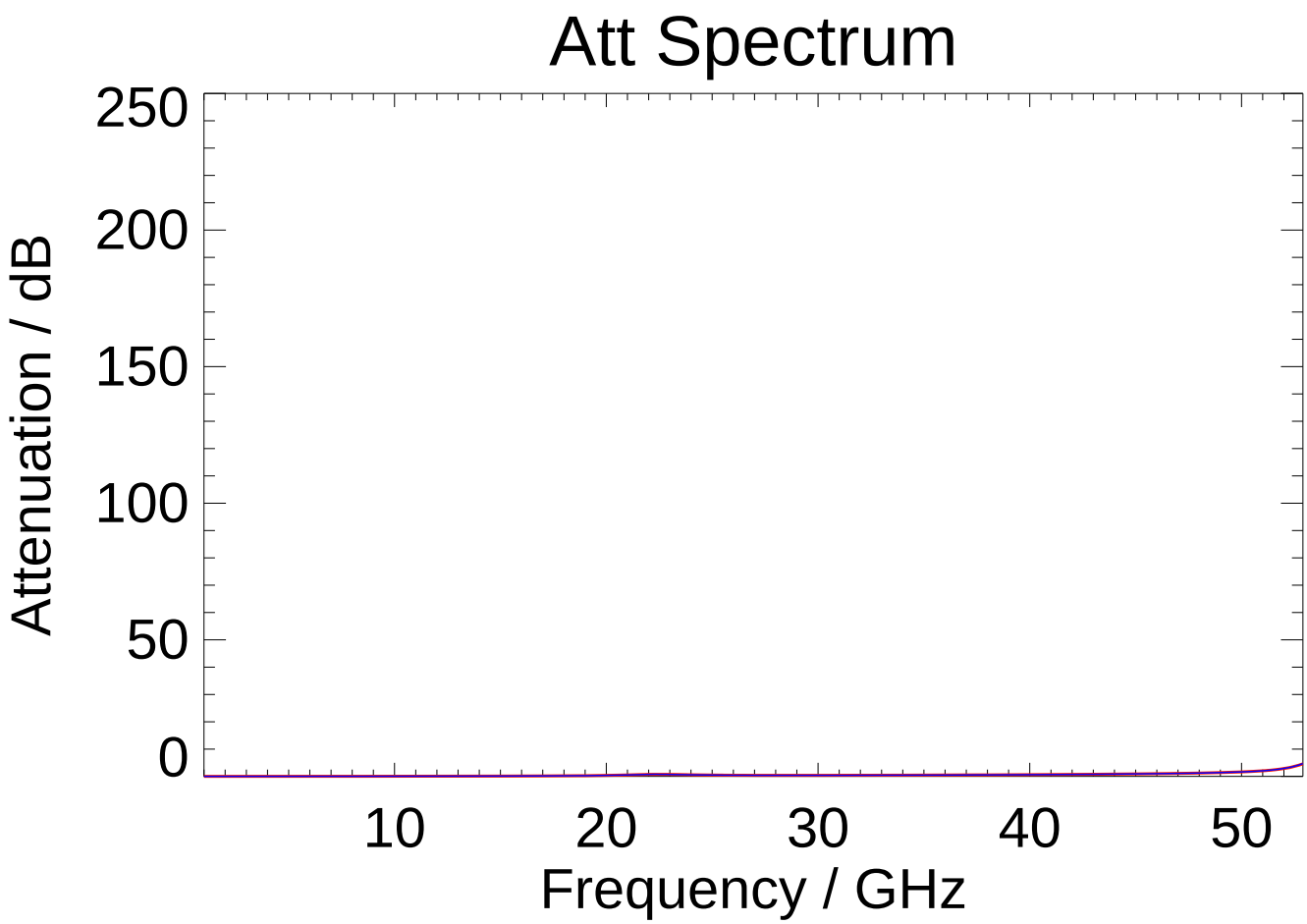
Frequency / GHz


Att Spectrum
Attenuation / dB
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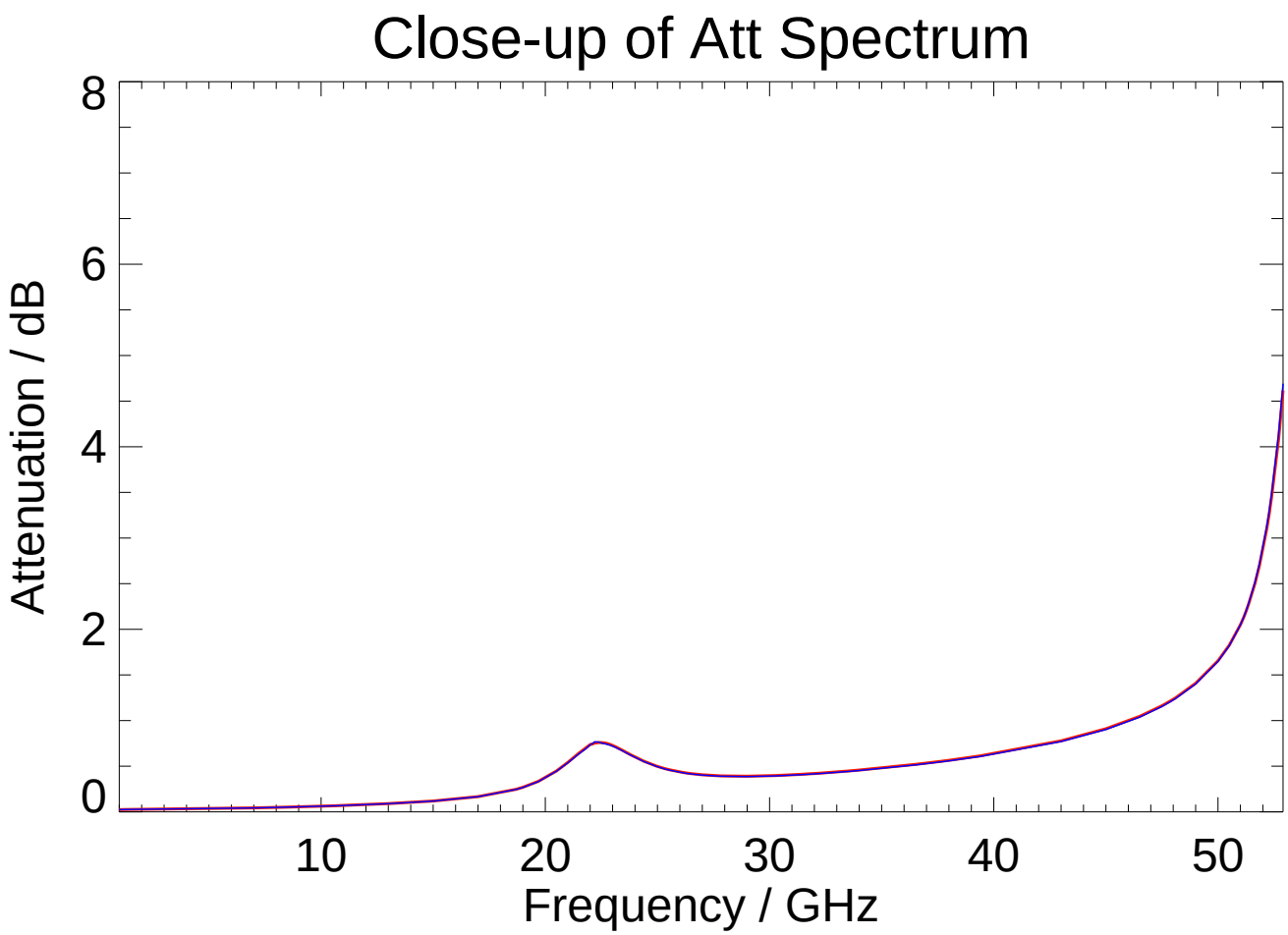
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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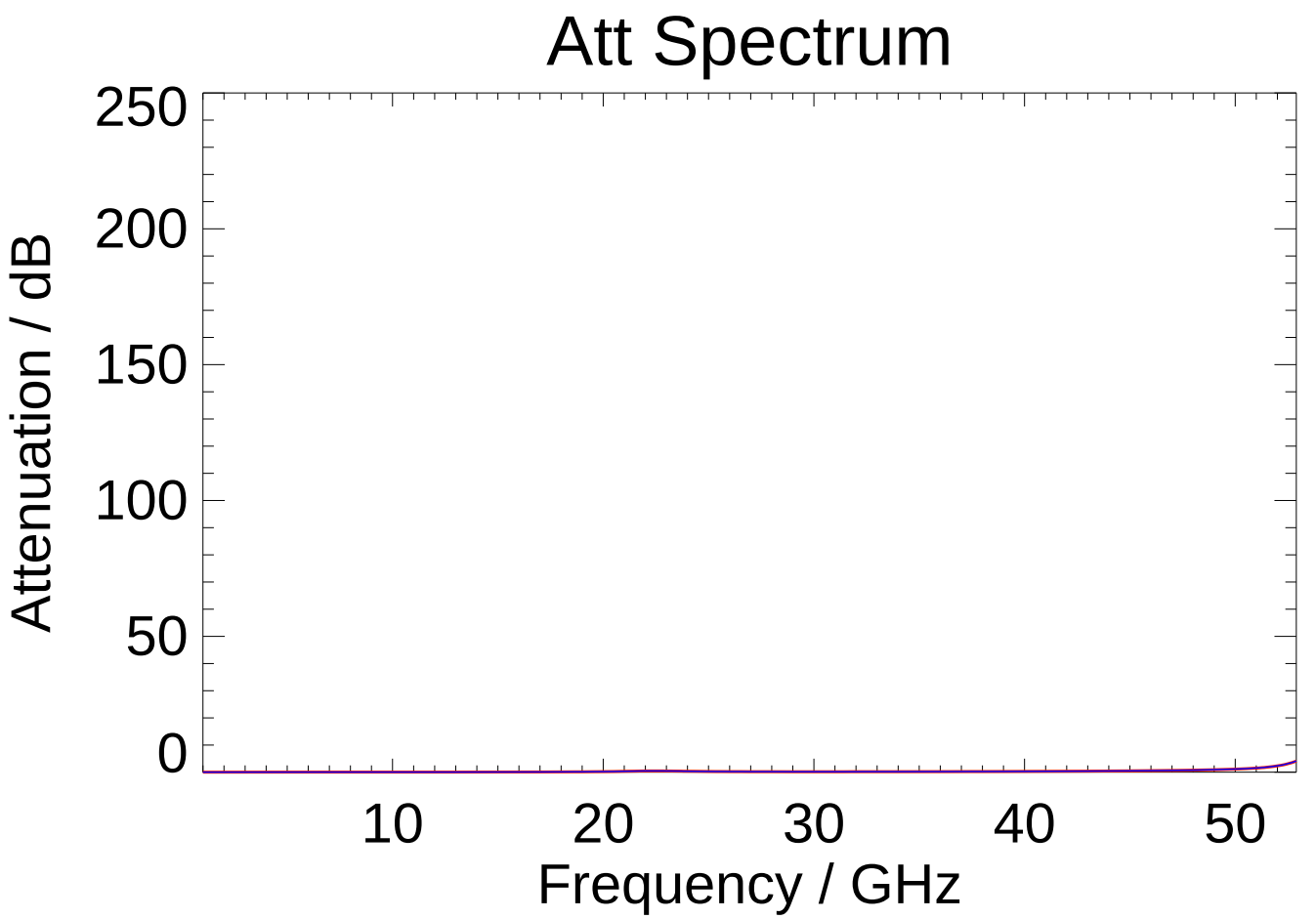
Frequency / GHz


Att Spectrum
Attenuation / dB
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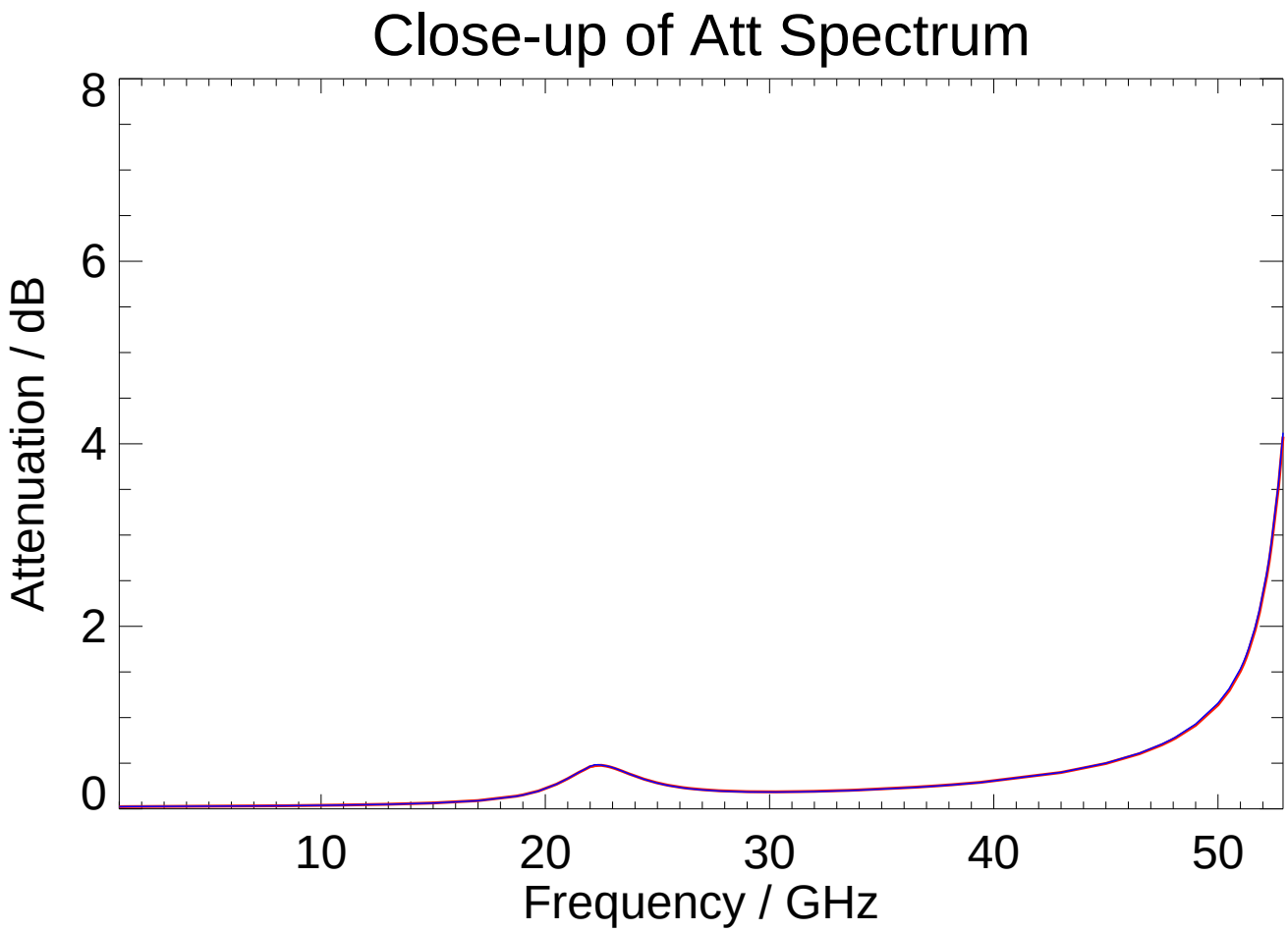
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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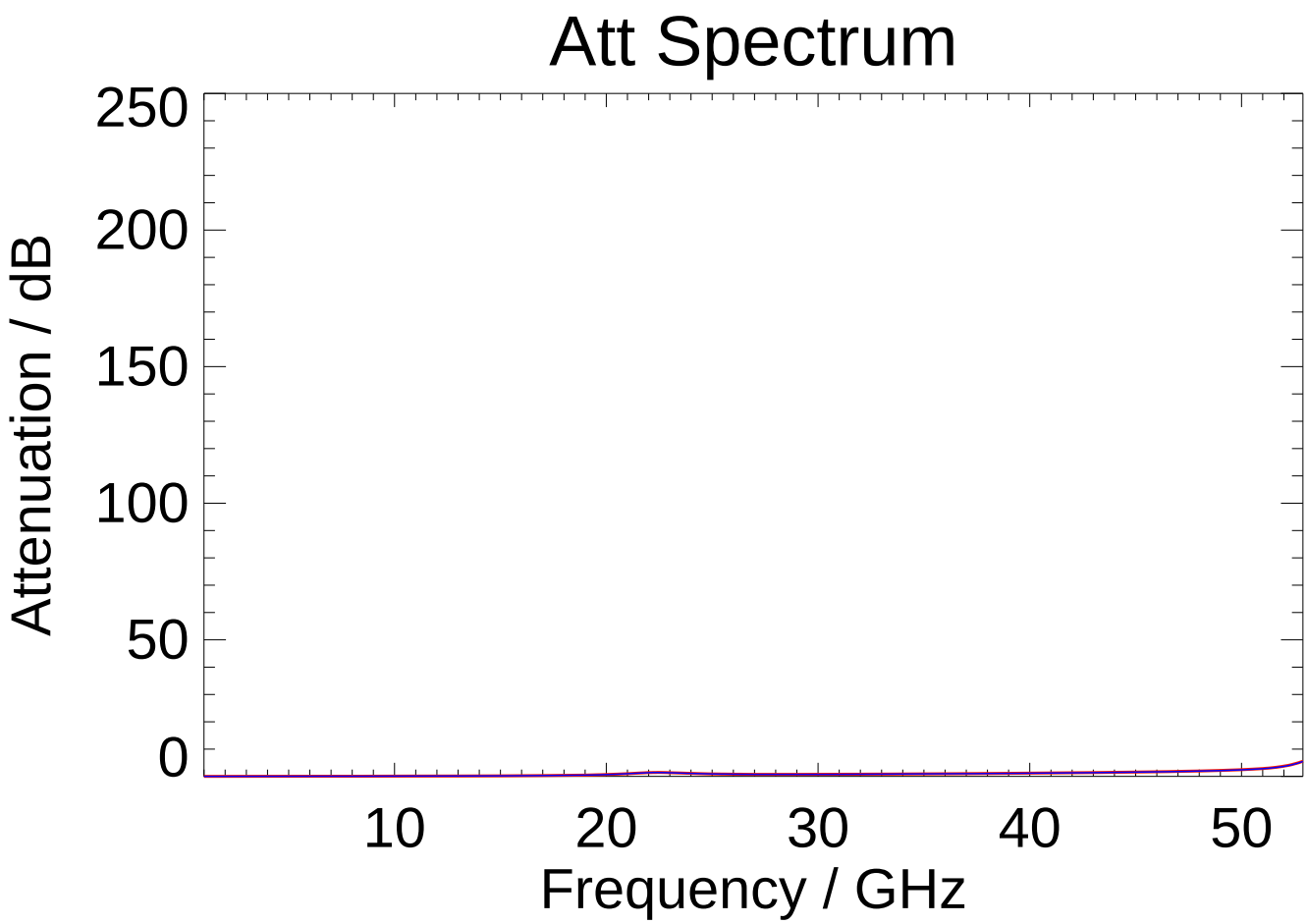
Frequency / GHz


Att Spectrum
Attenuation / dB
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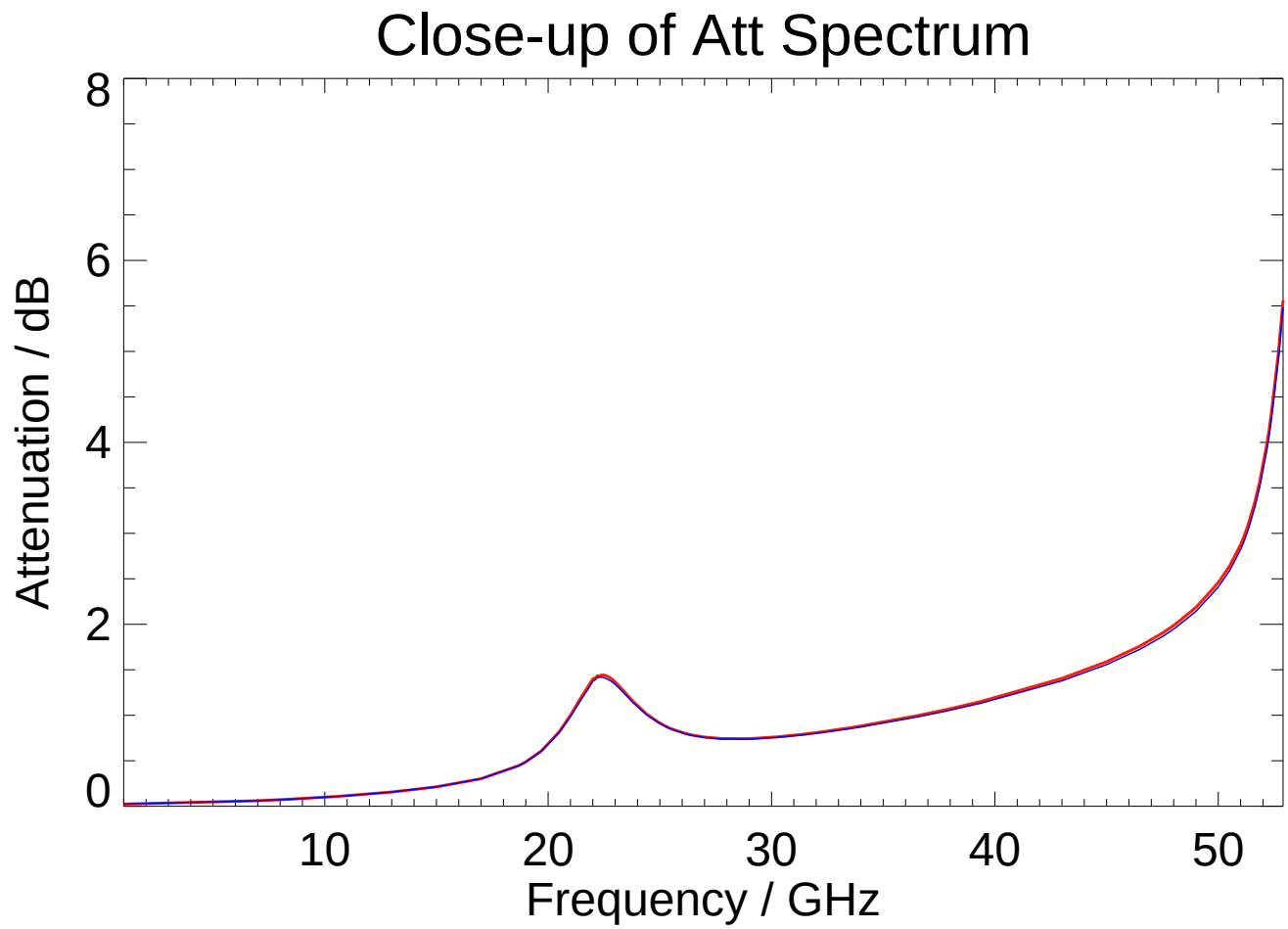
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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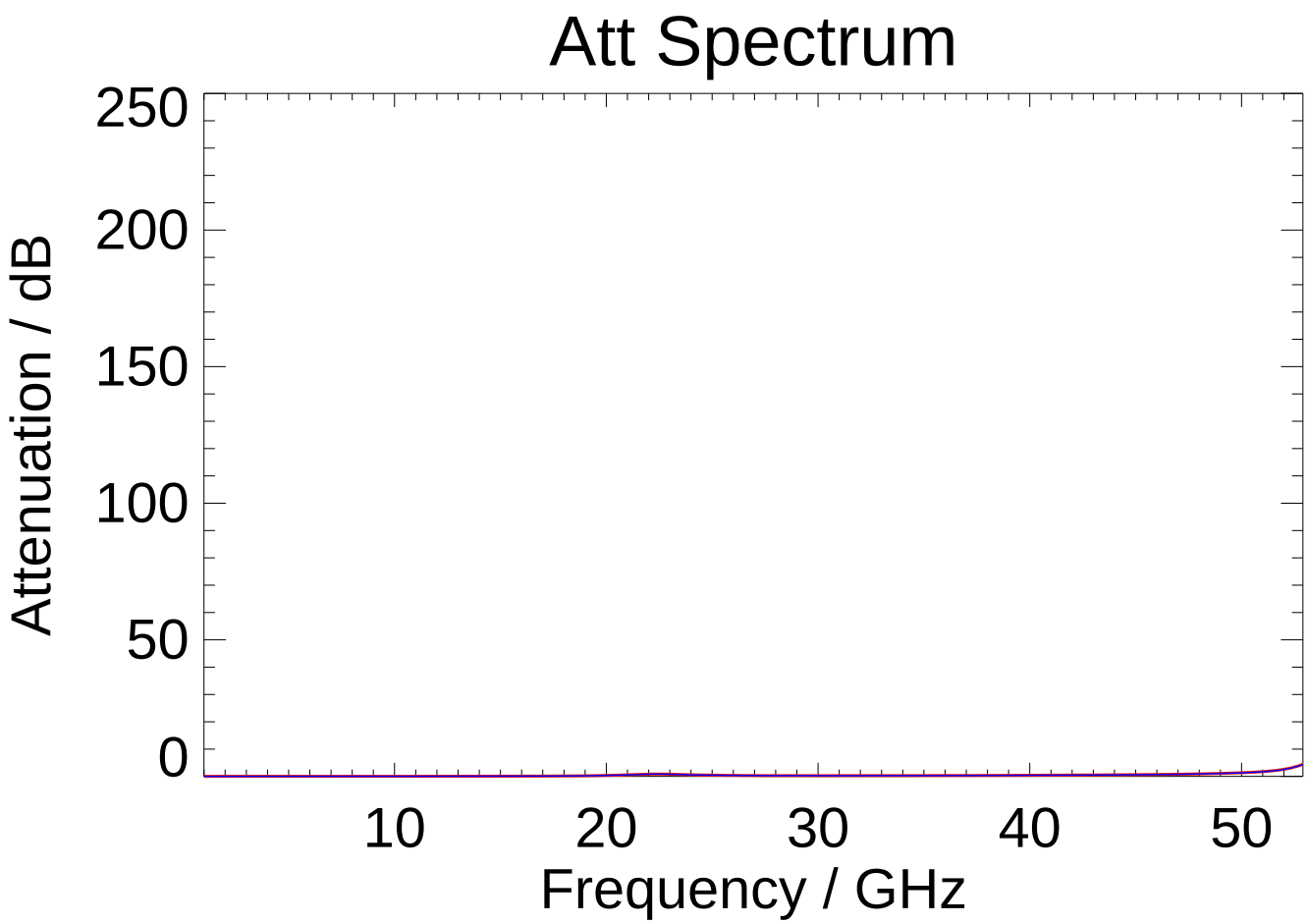
Frequency / GHz


Att Spectrum
Attenuation / dB
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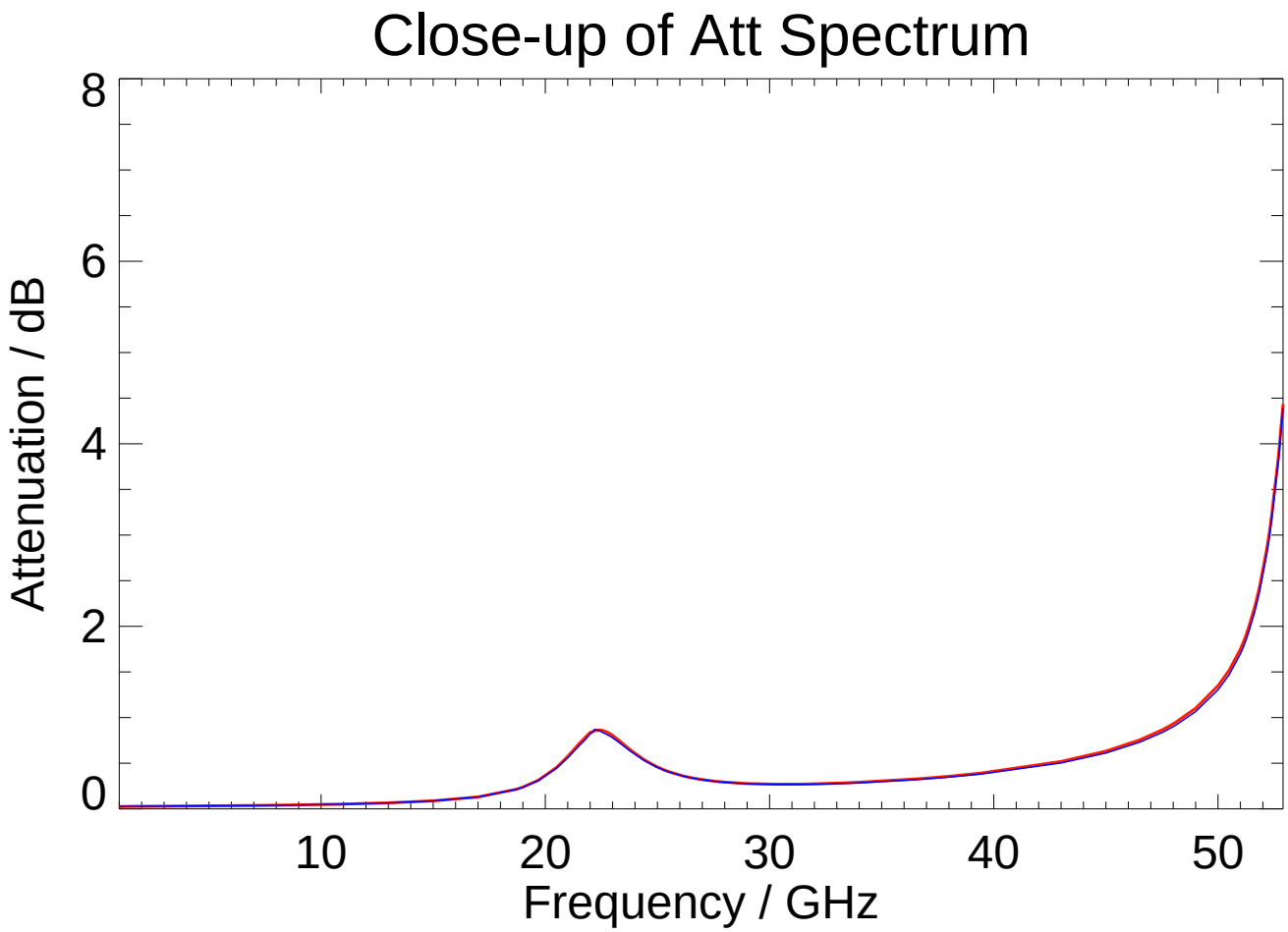
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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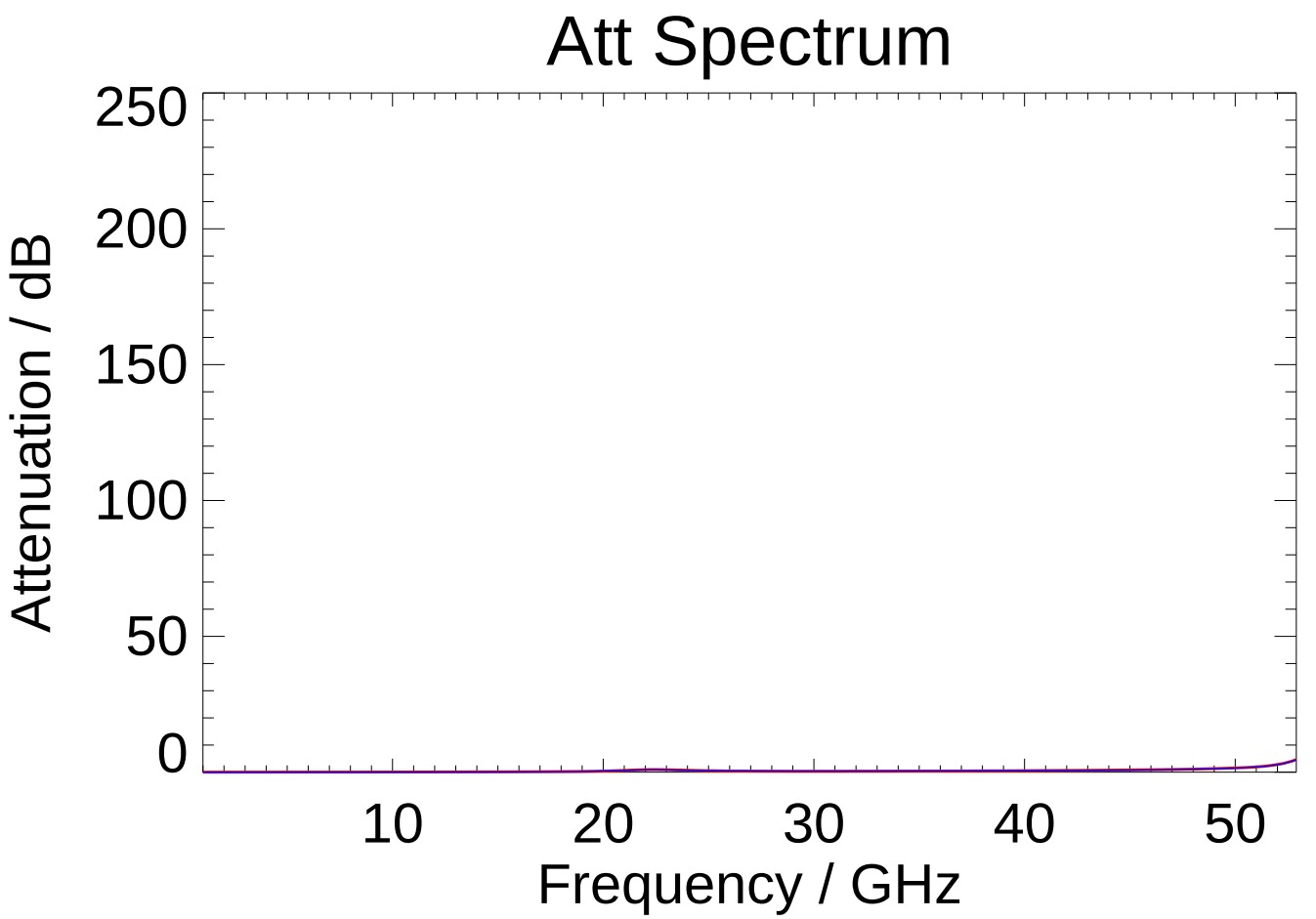
Frequency / GHz


Att Spectrum
Attenuation / dB
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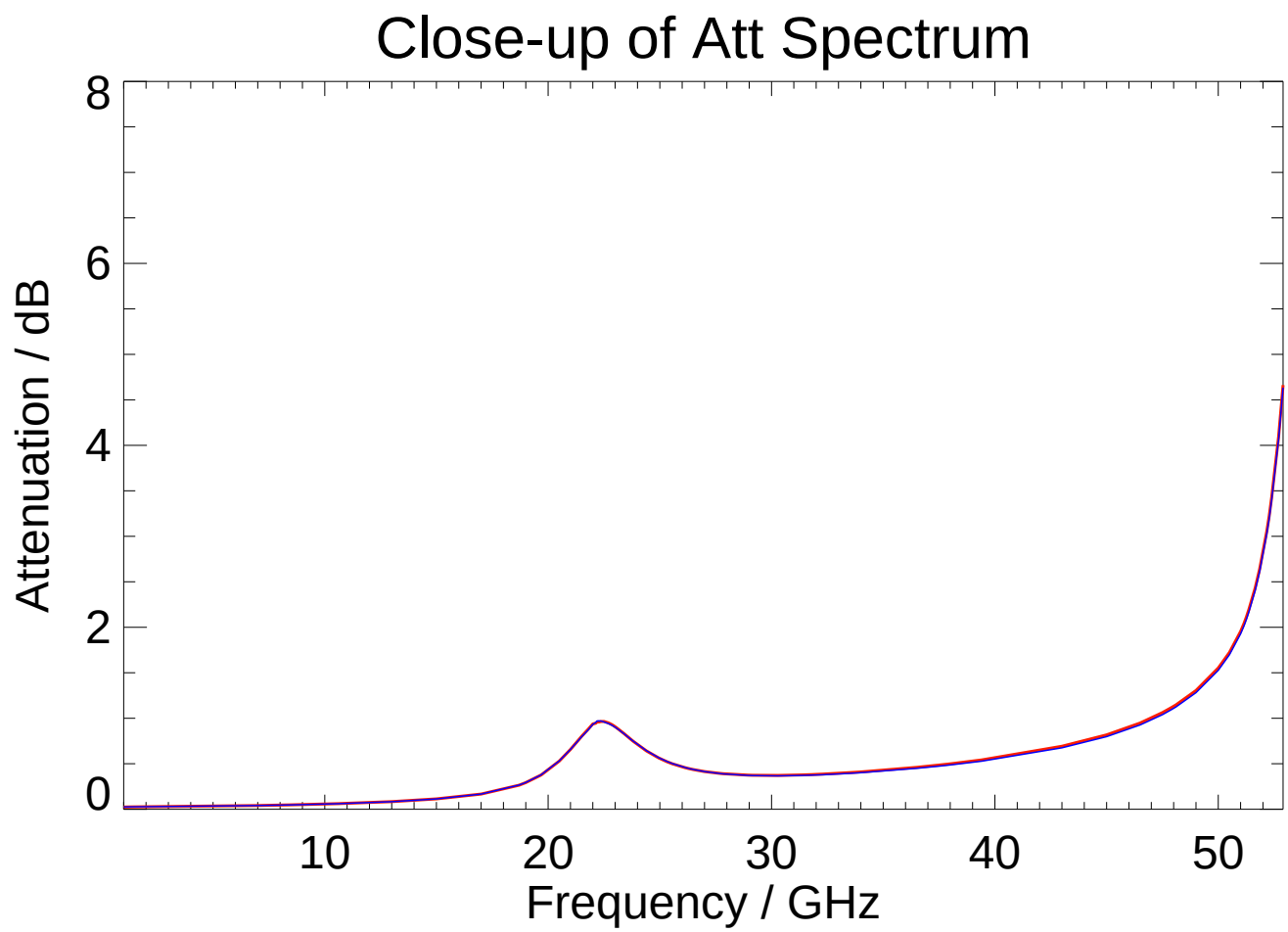
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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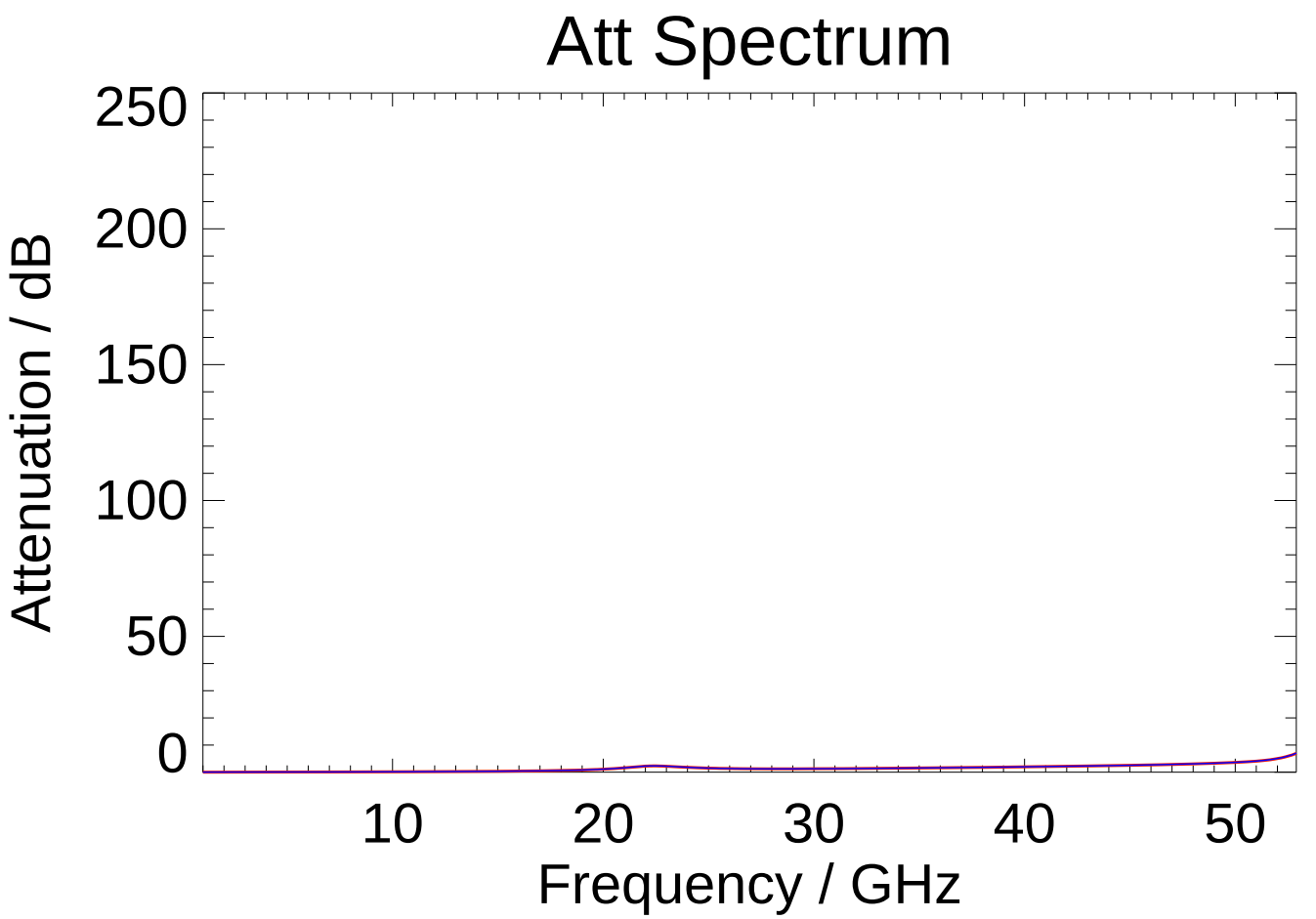
Frequency / GHz


Att Spectrum
Attenuation / dB
250
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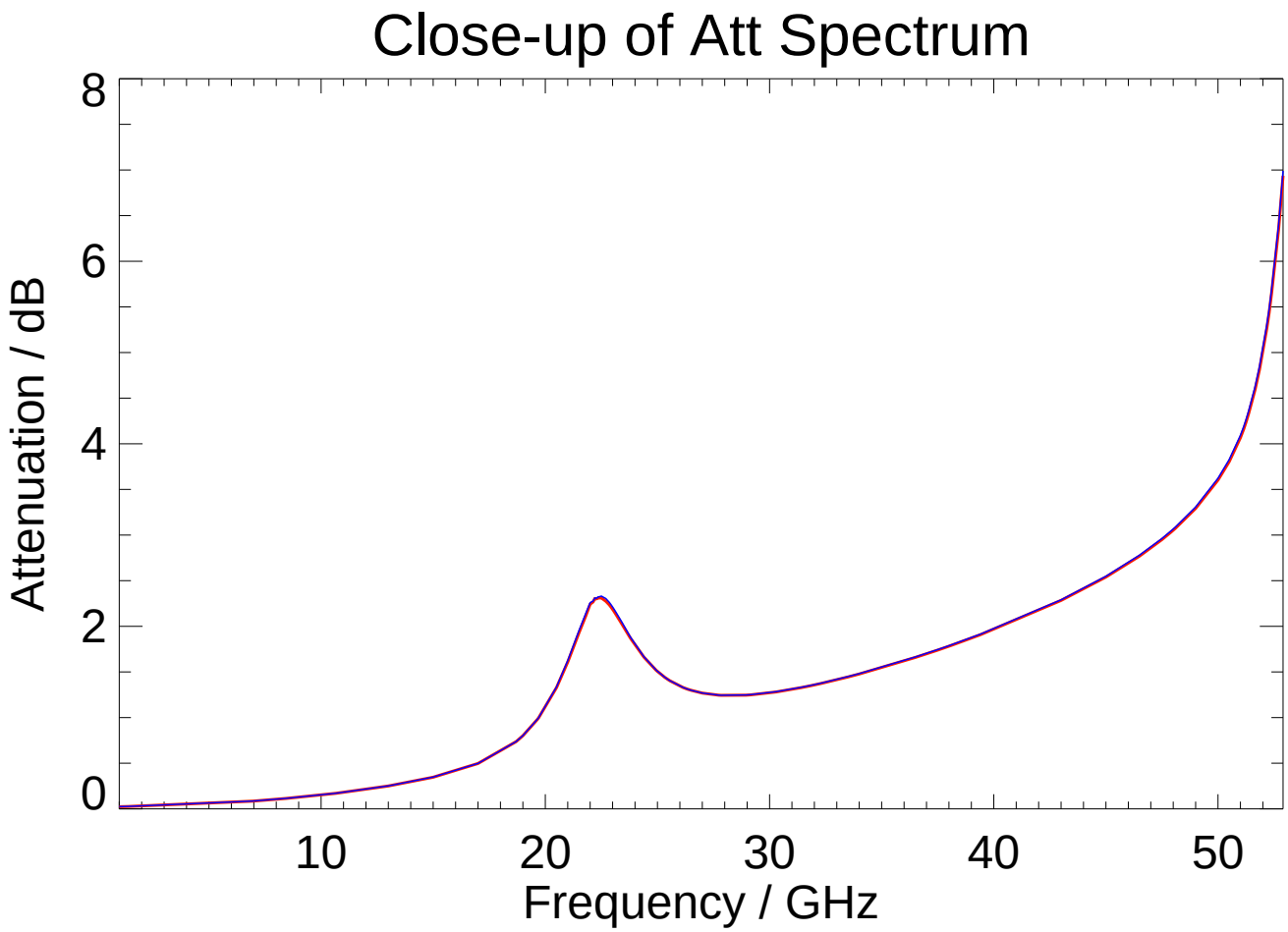
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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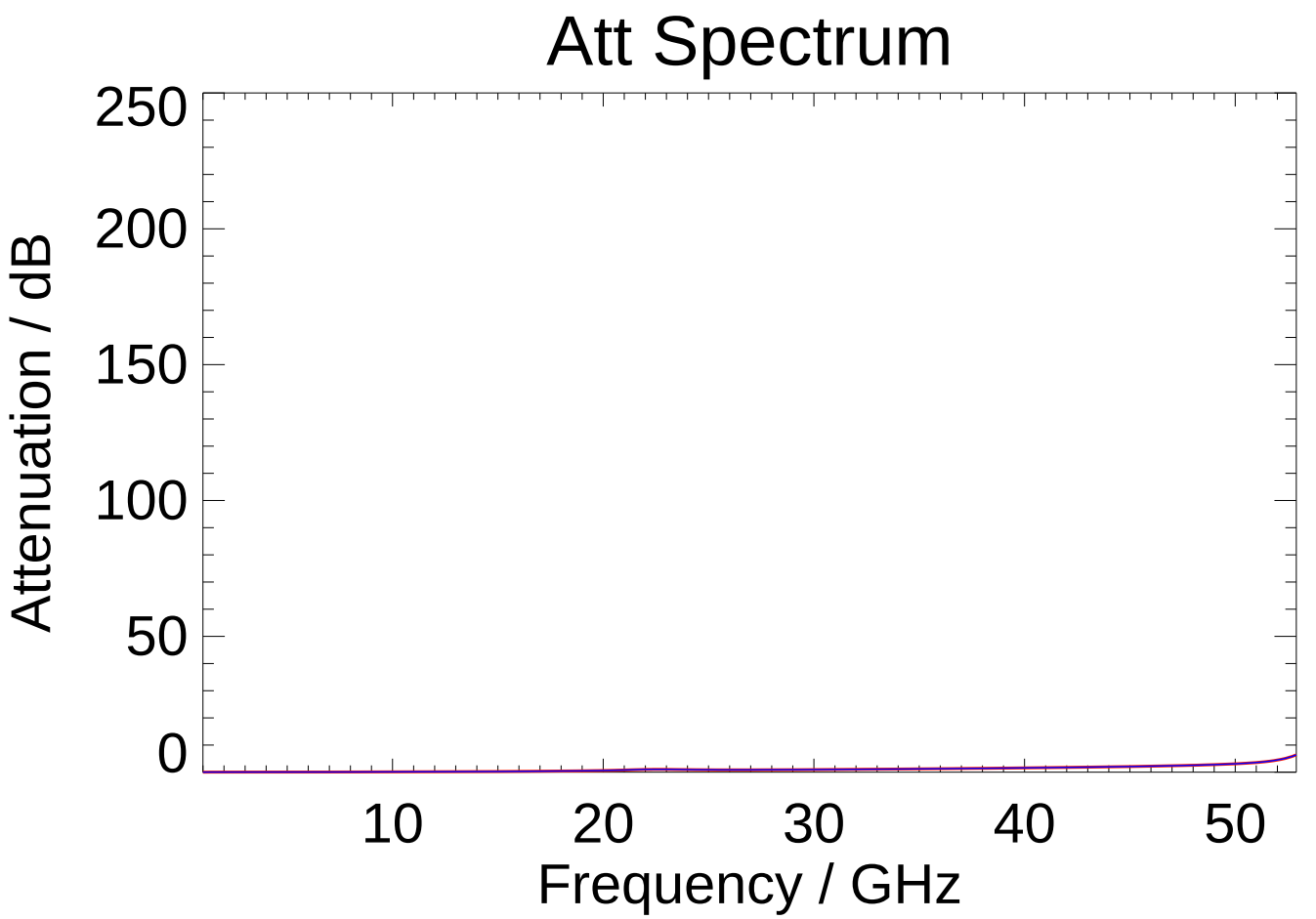
Frequency / GHz


Att Spectrum
Attenuation / dB
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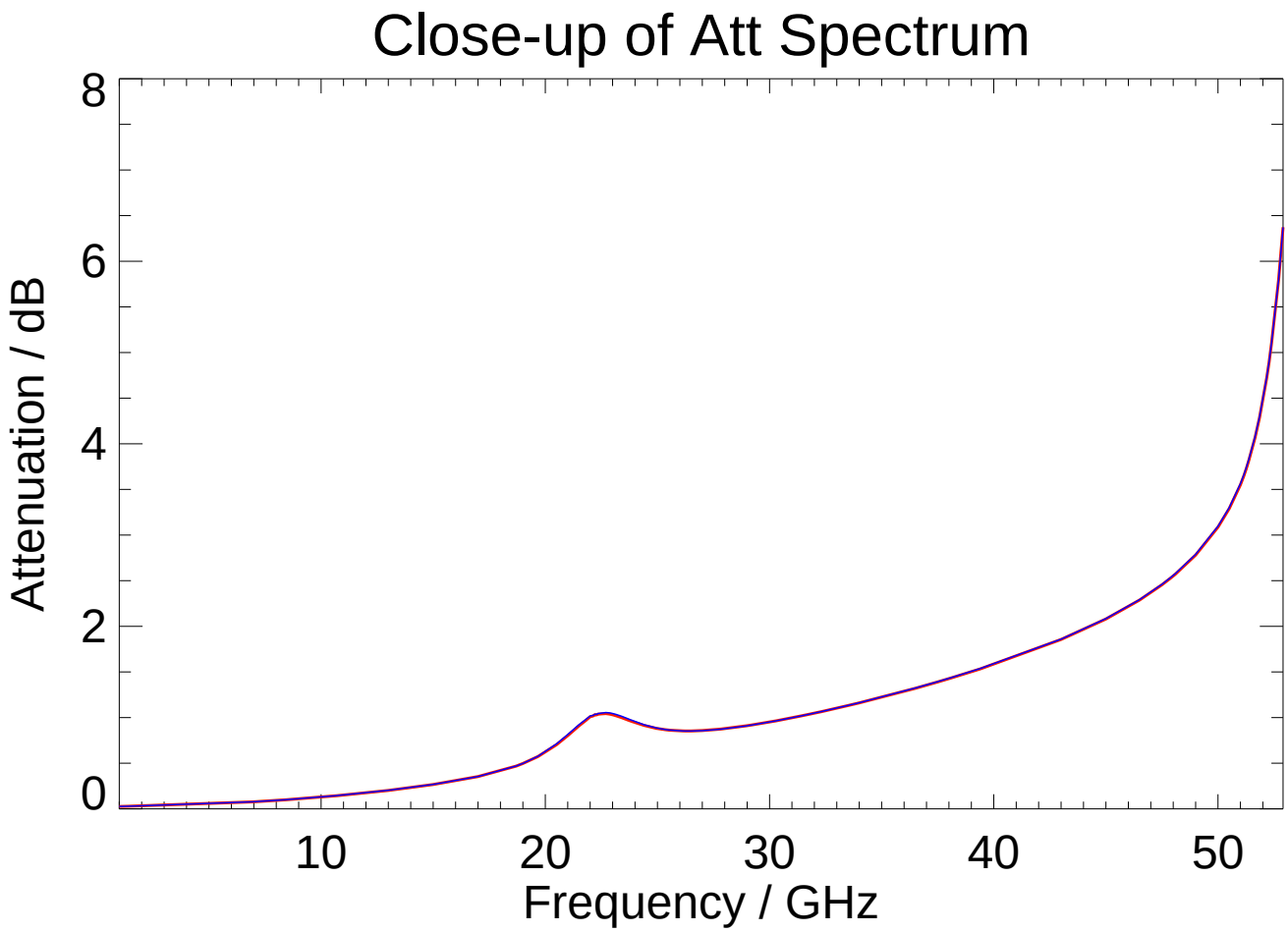
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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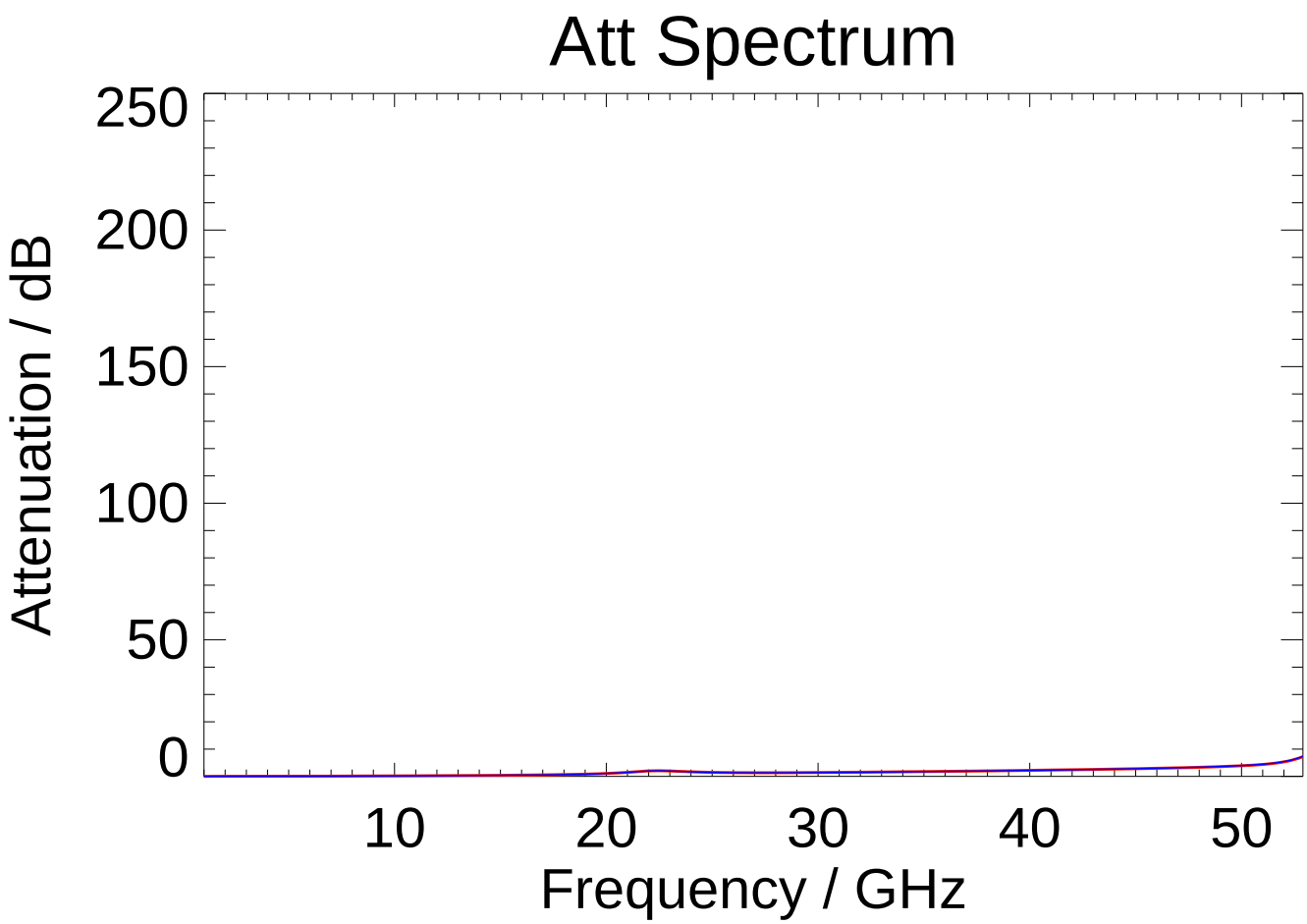
Frequency / GHz


Att Spectrum
Attenuation / dB
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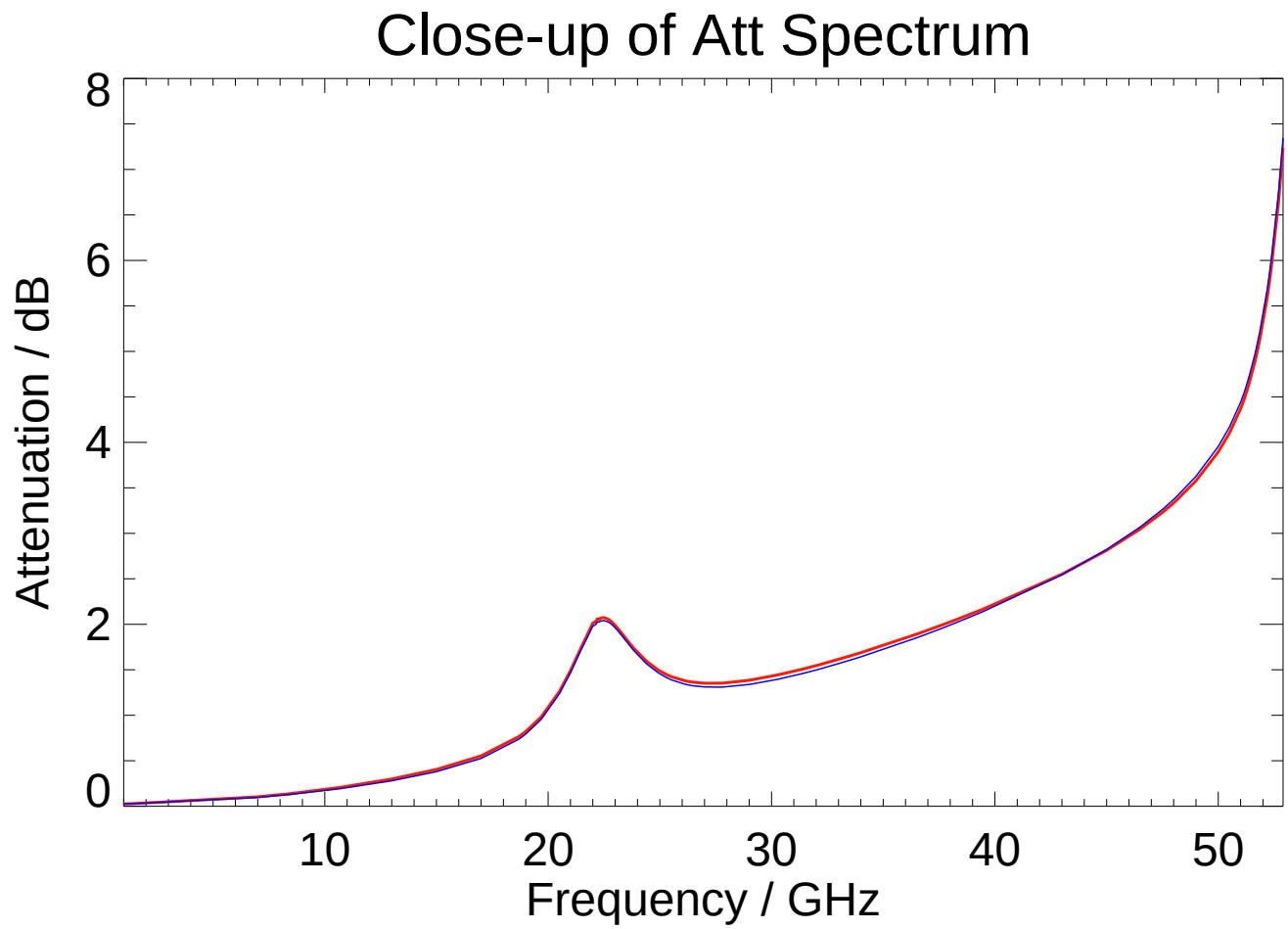
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
6
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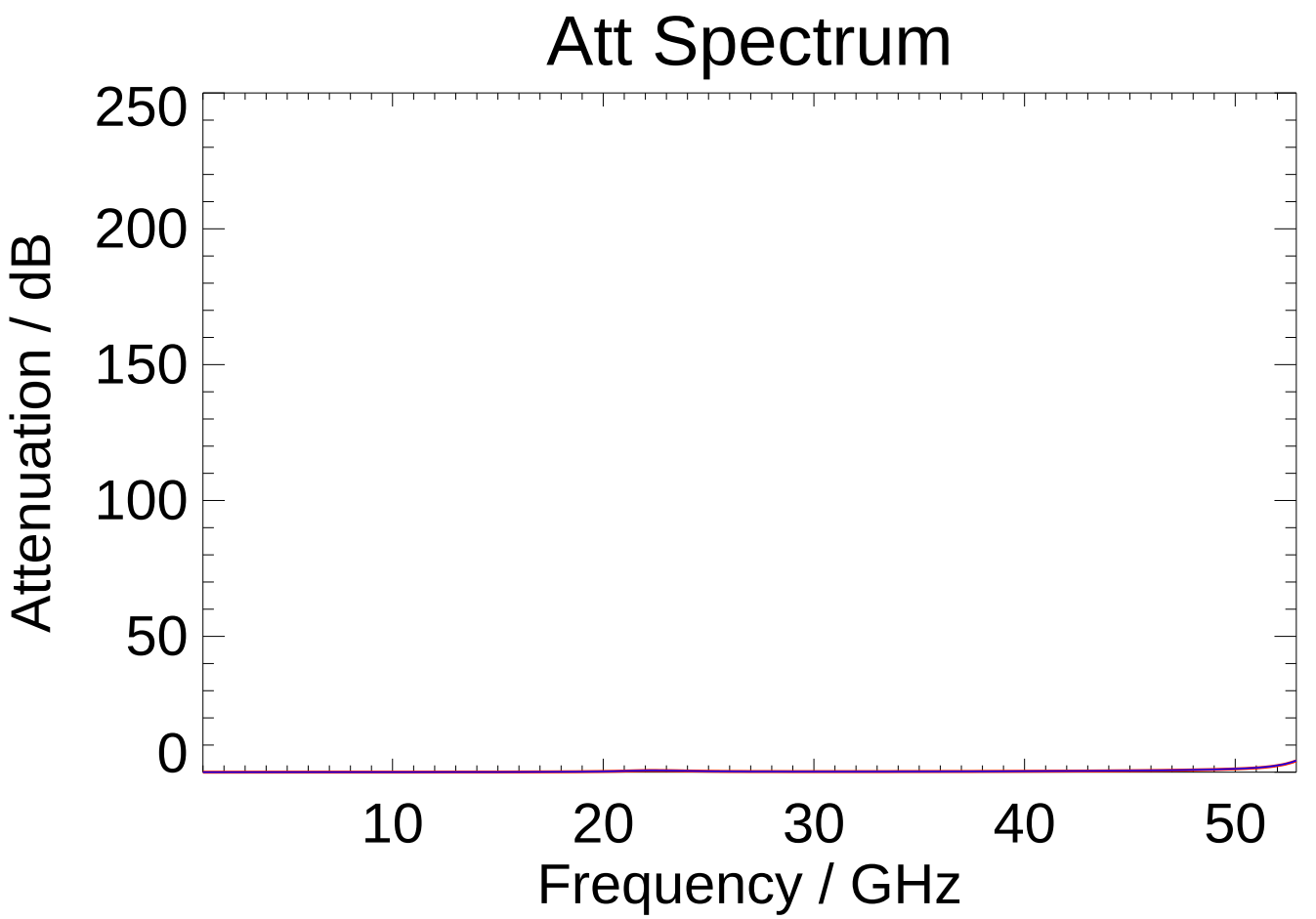
Frequency / GHz


Att Spectrum
Attenuation / dB
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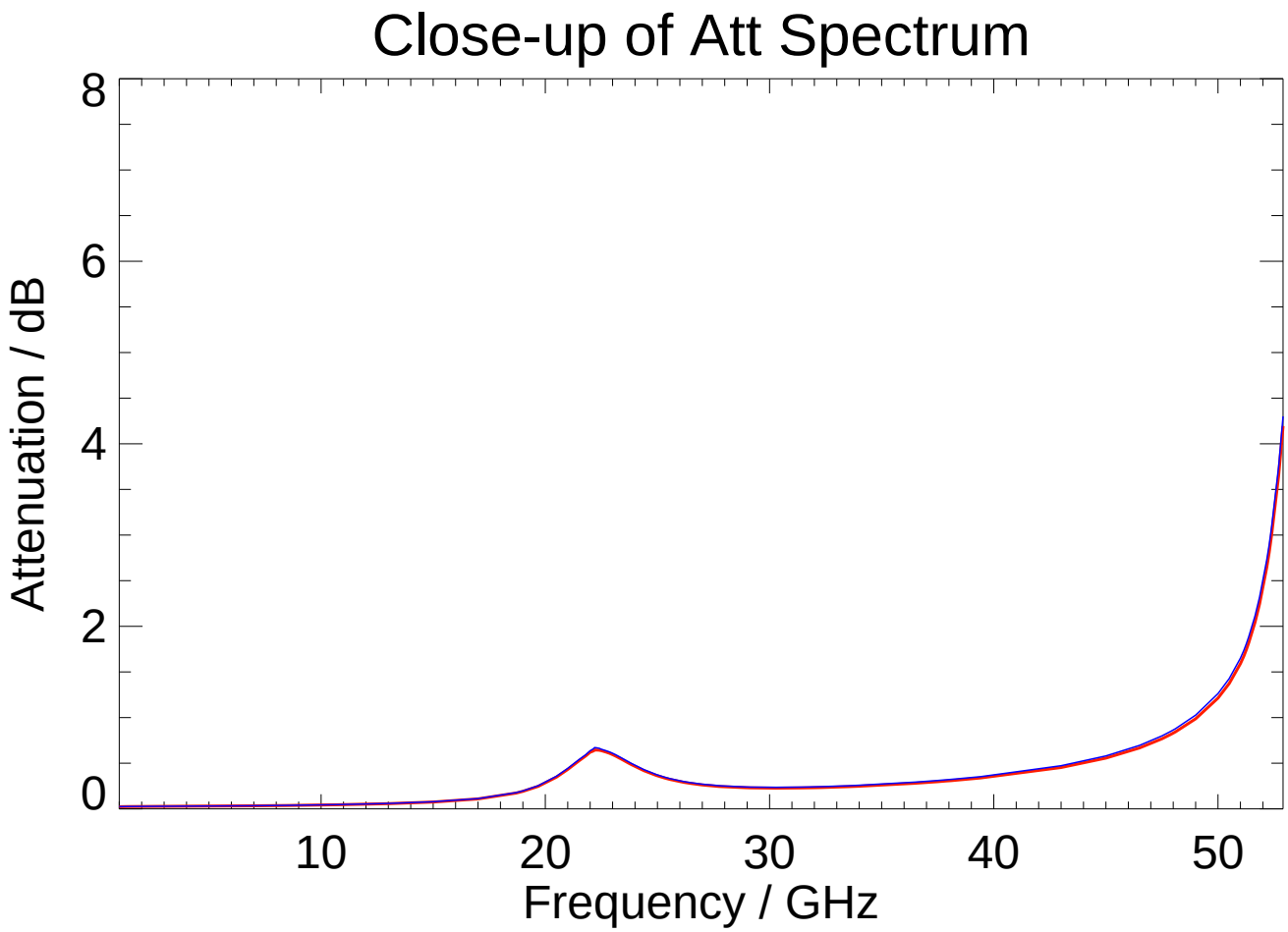
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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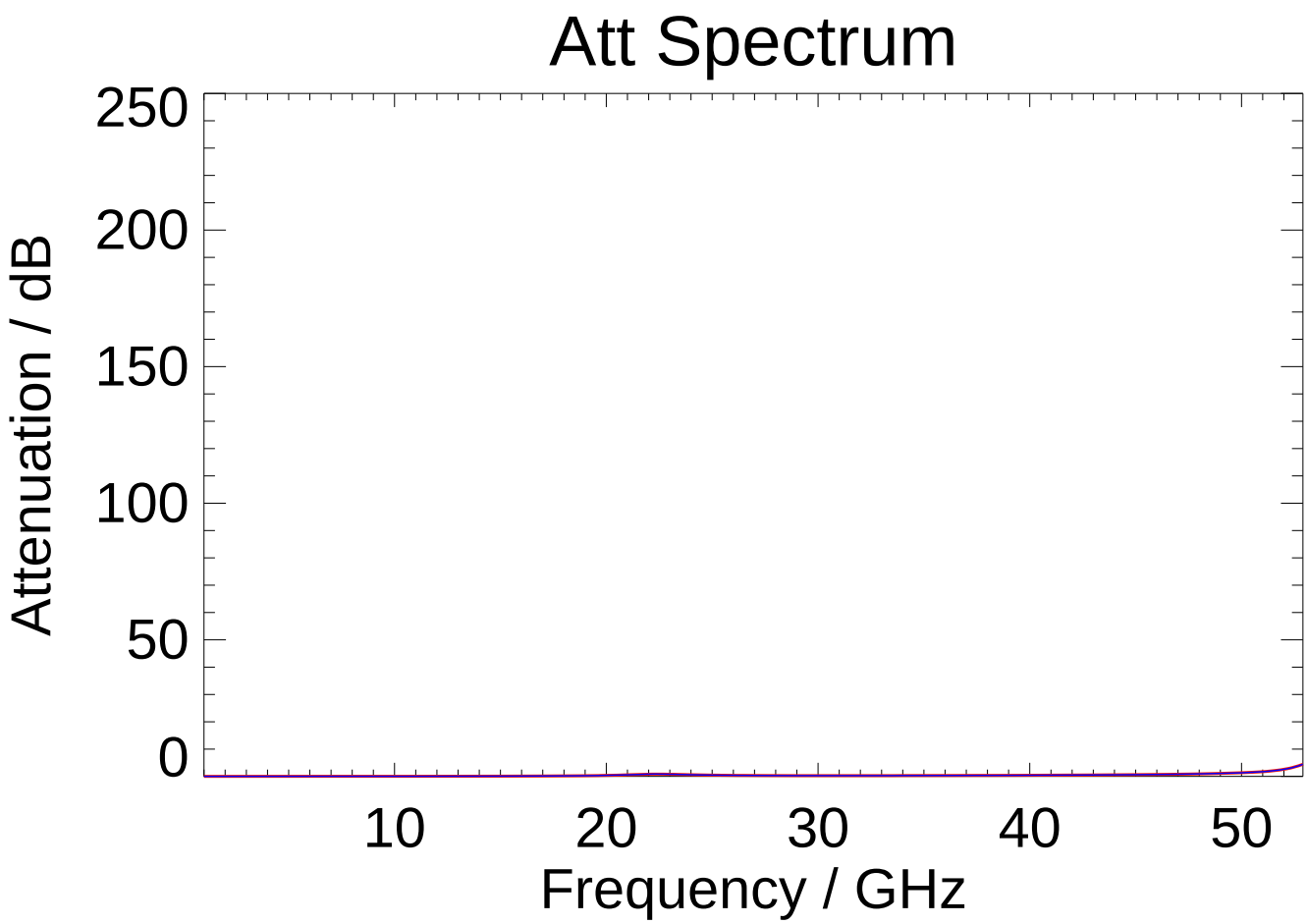
Frequency / GHz


Att Spectrum
Attenuation / dB
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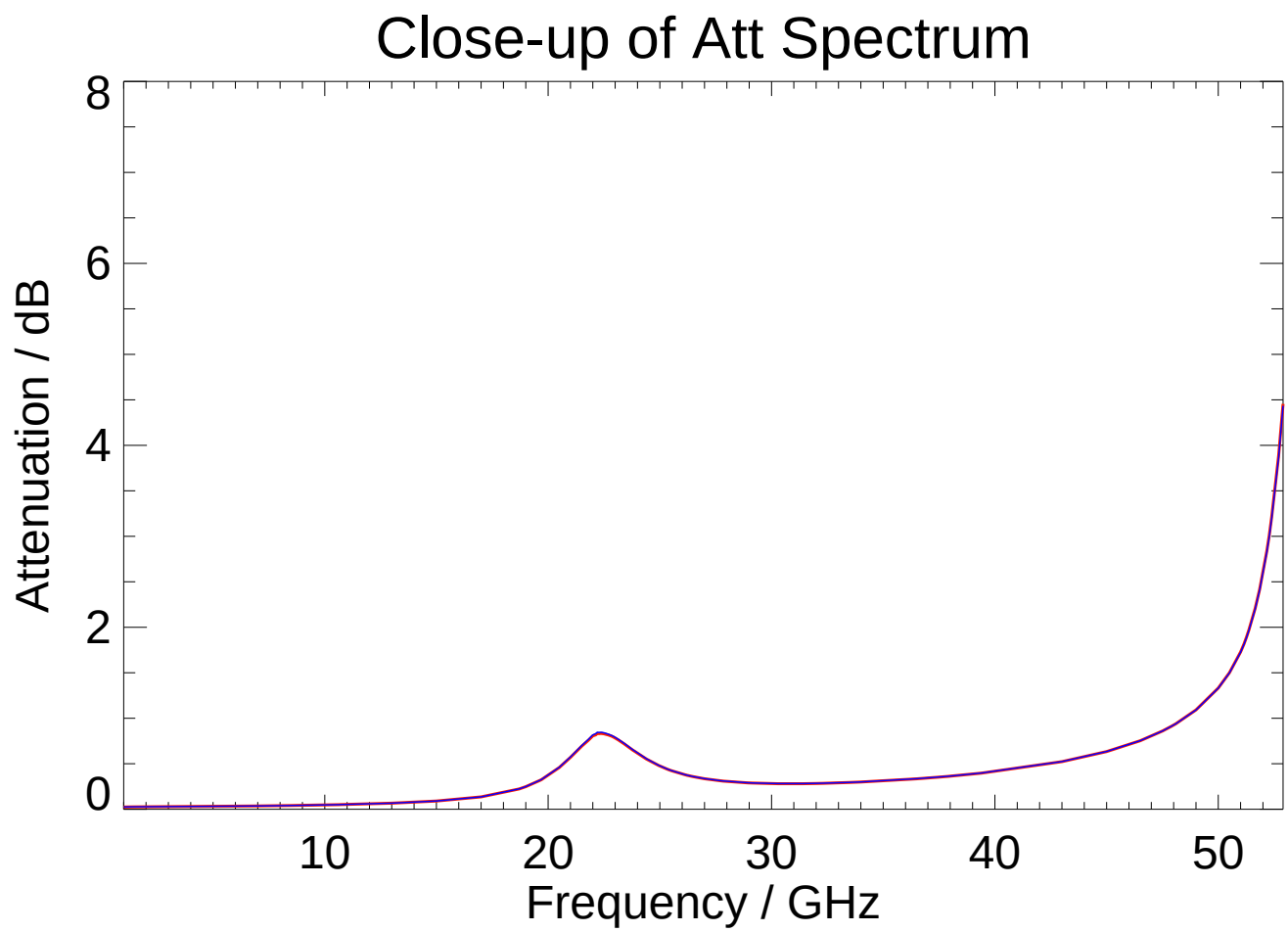
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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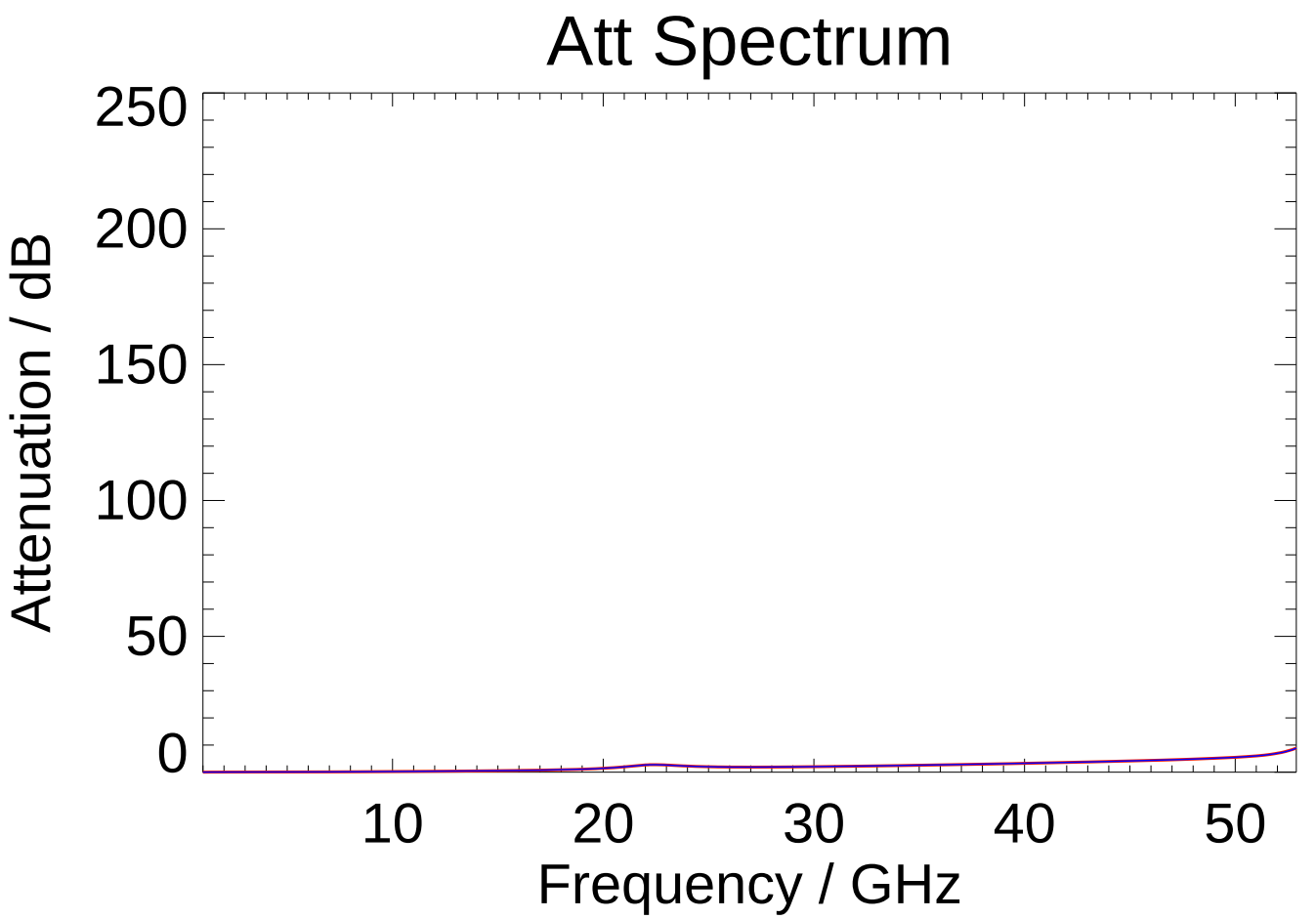
Frequency / GHz


Att Spectrum
Attenuation / dB
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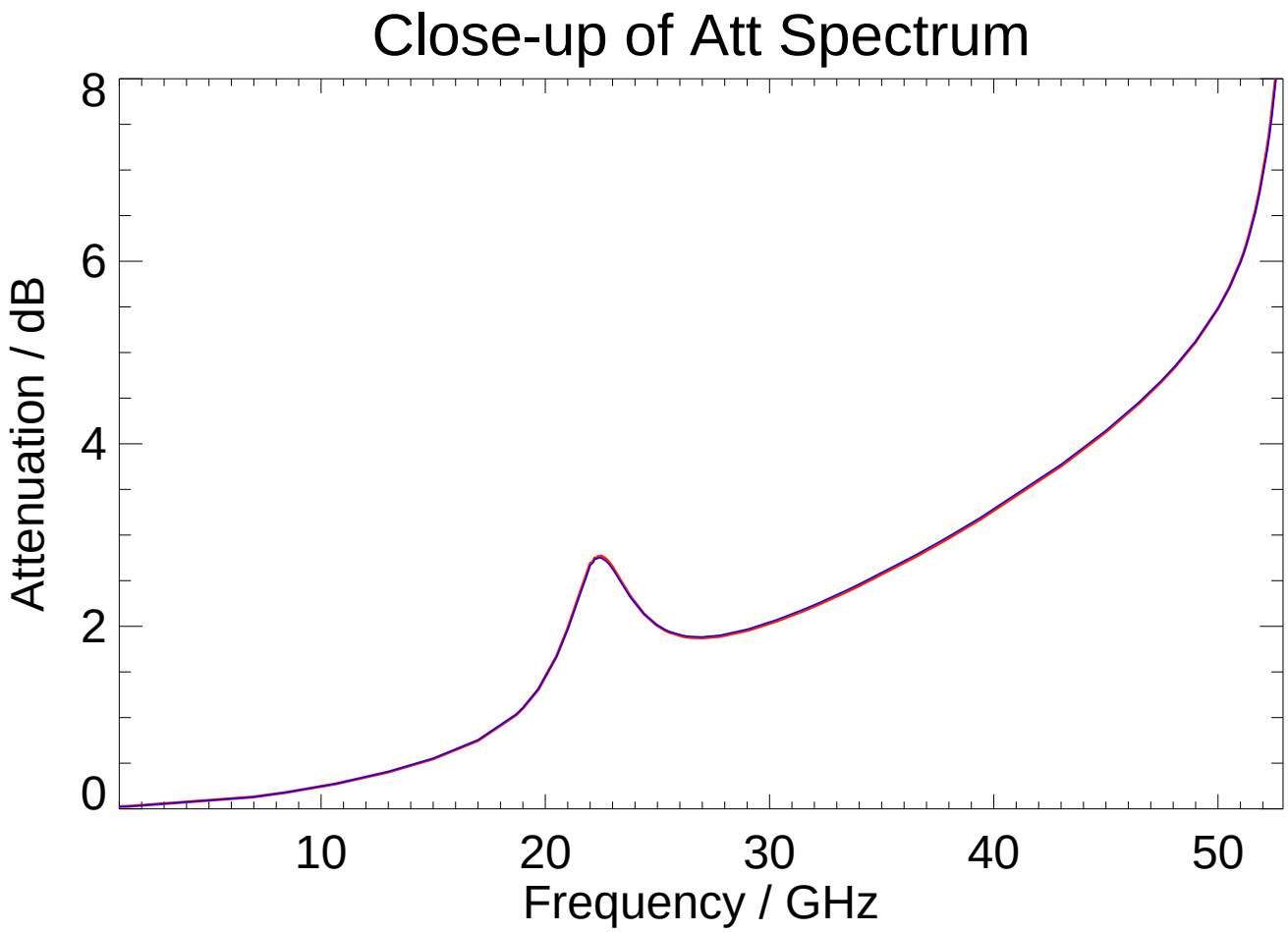
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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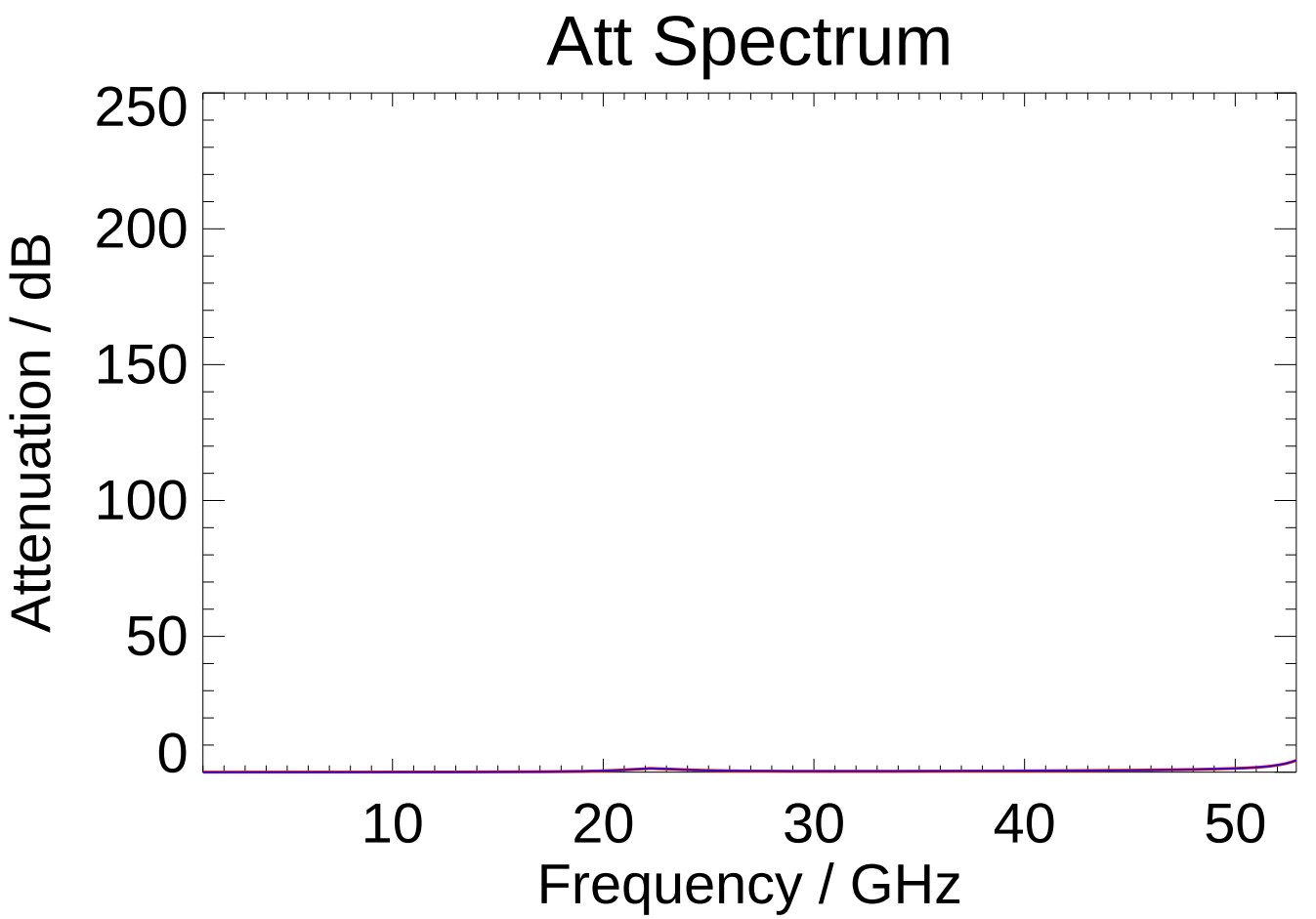
Frequency / GHz


Att Spectrum
Attenuation / dB
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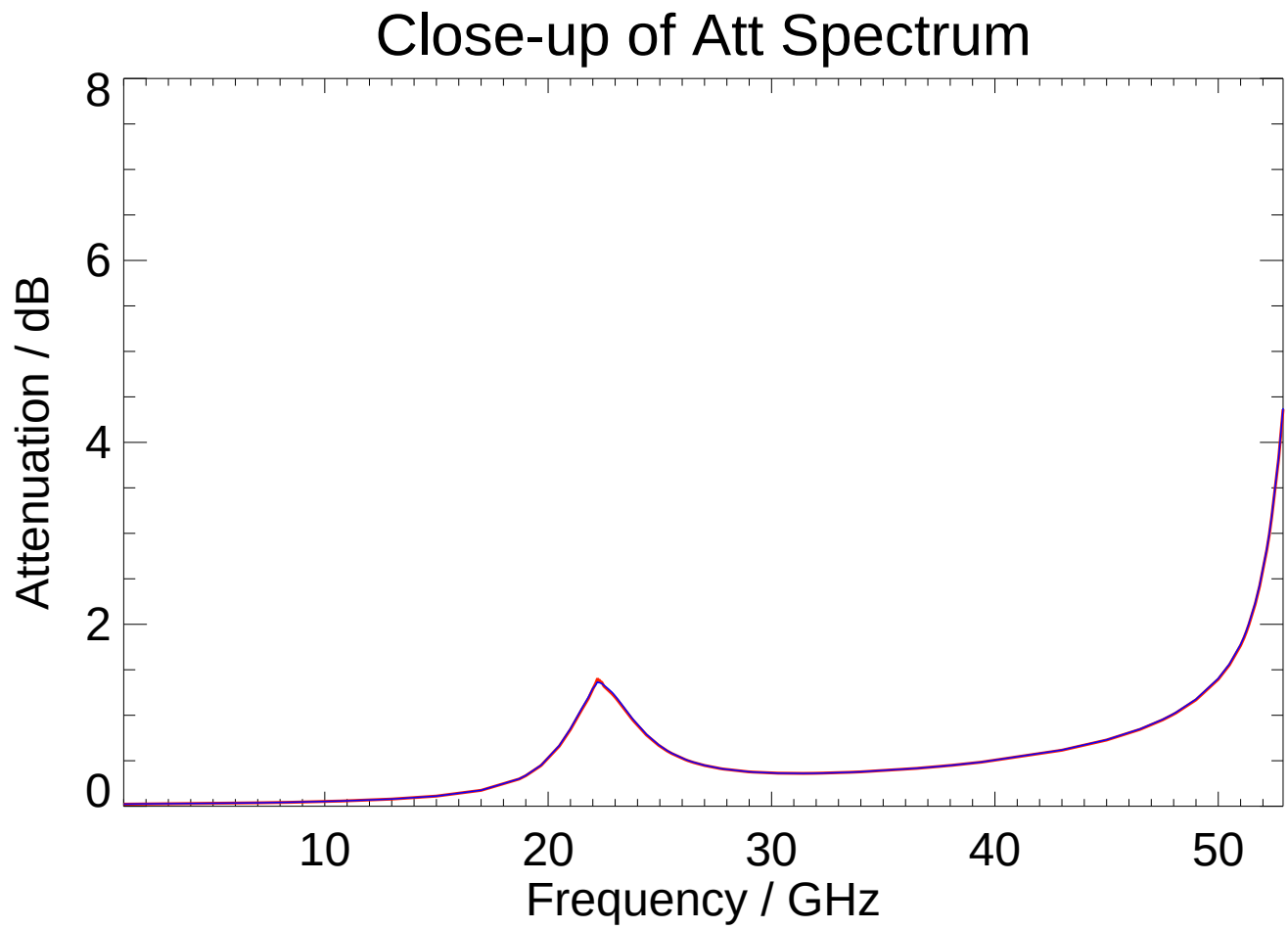
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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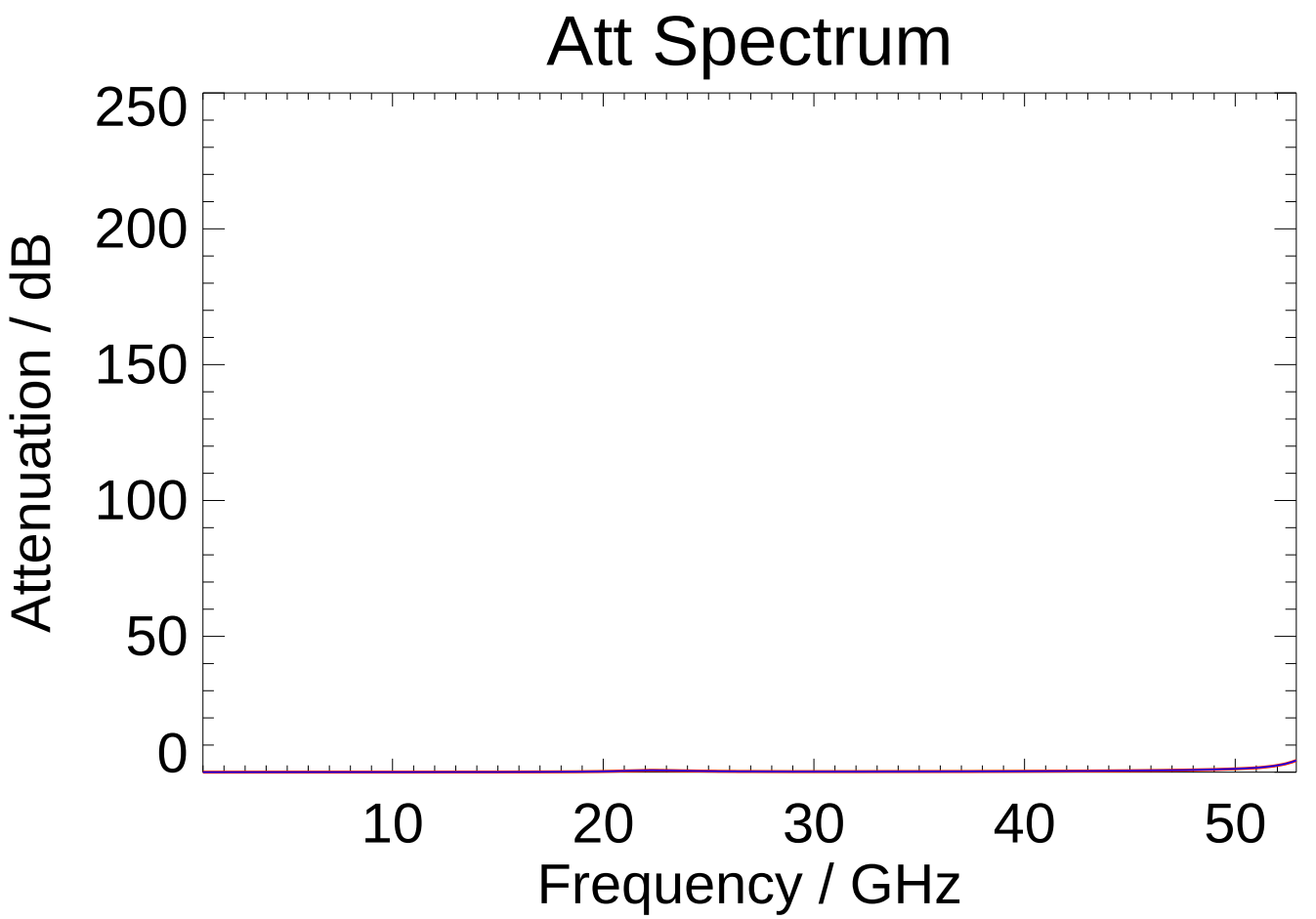
Frequency / GHz


Att Spectrum
Attenuation / dB
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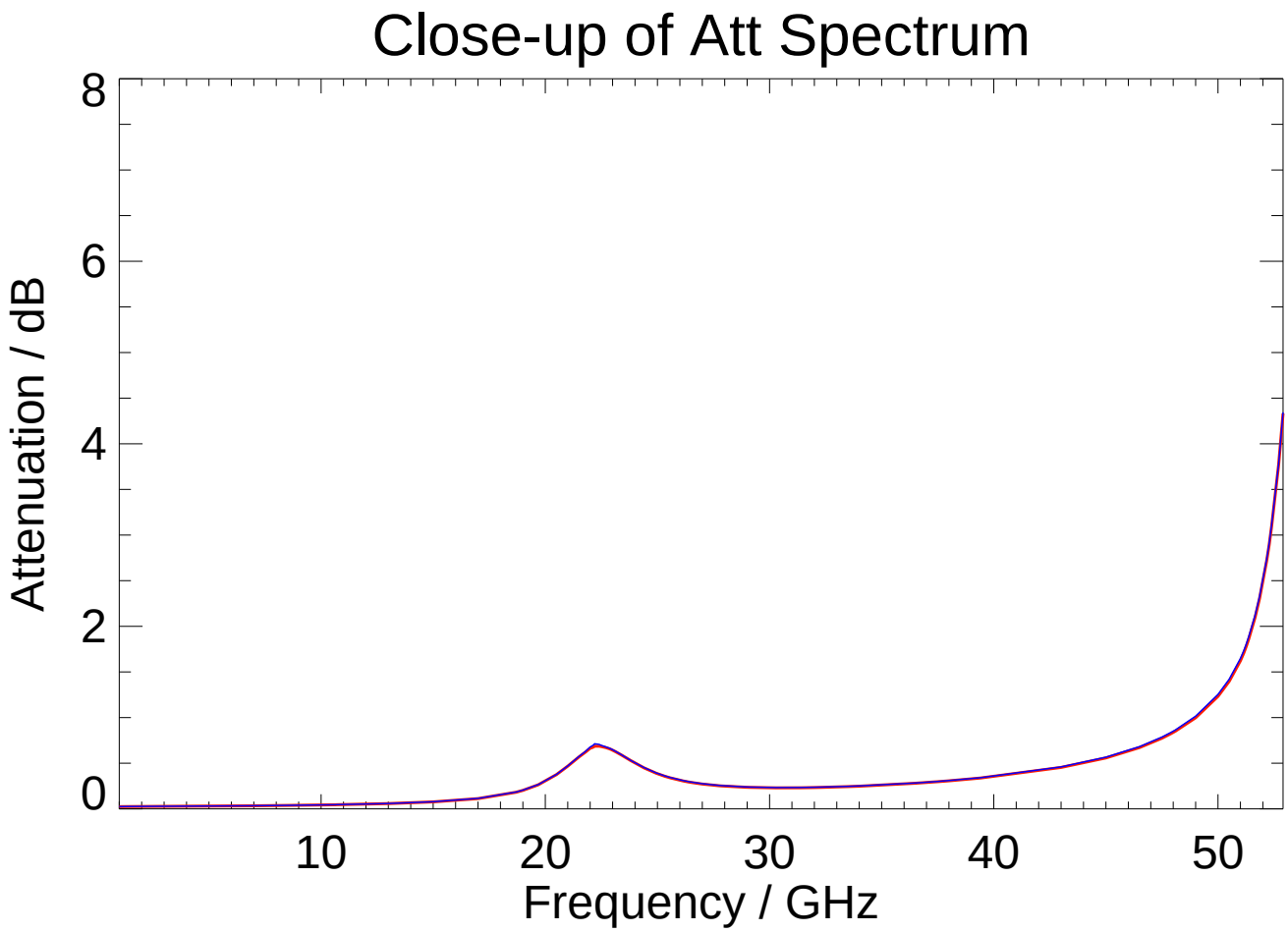
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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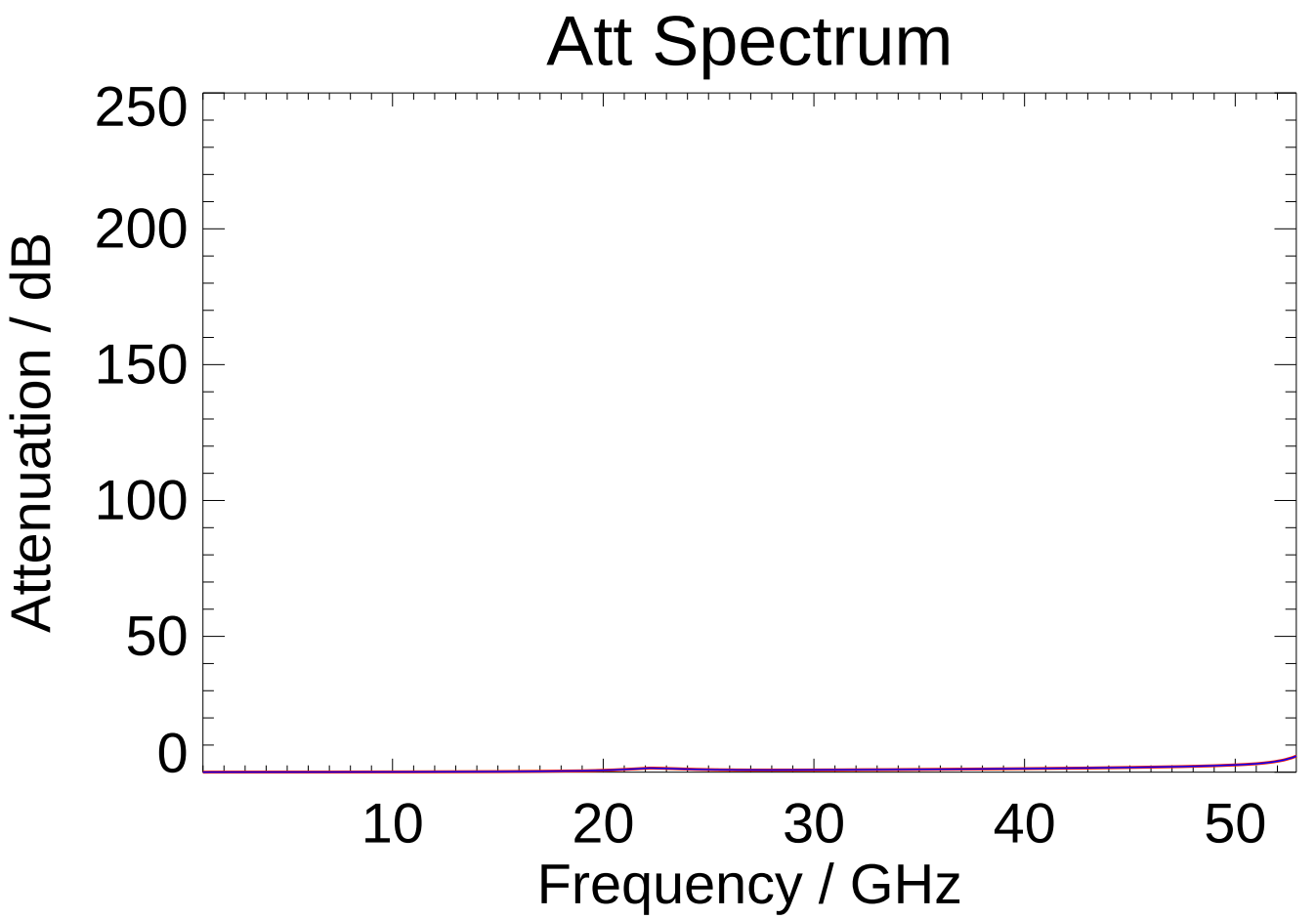
Frequency / GHz


Att Spectrum
Attenuation / dB
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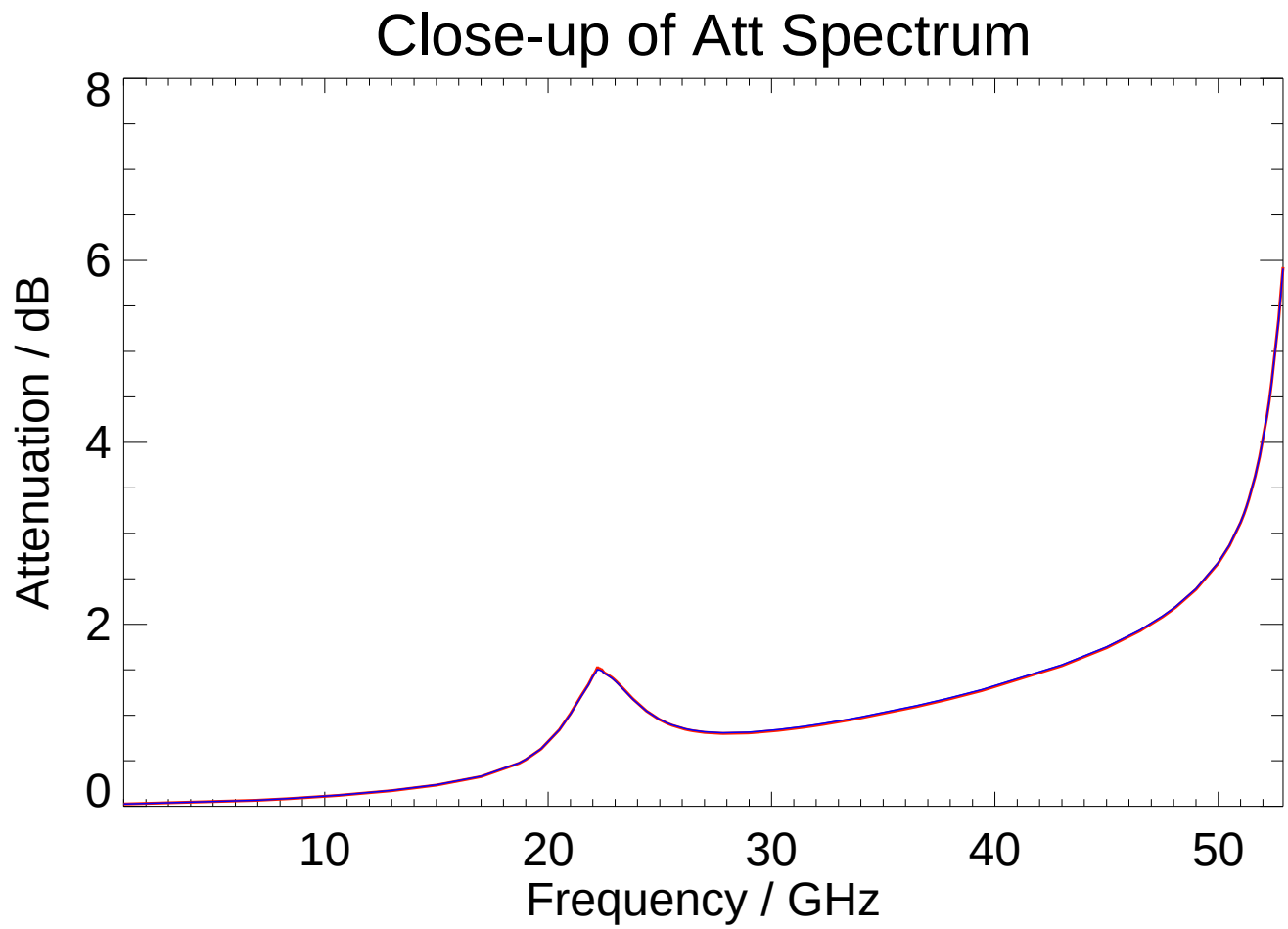
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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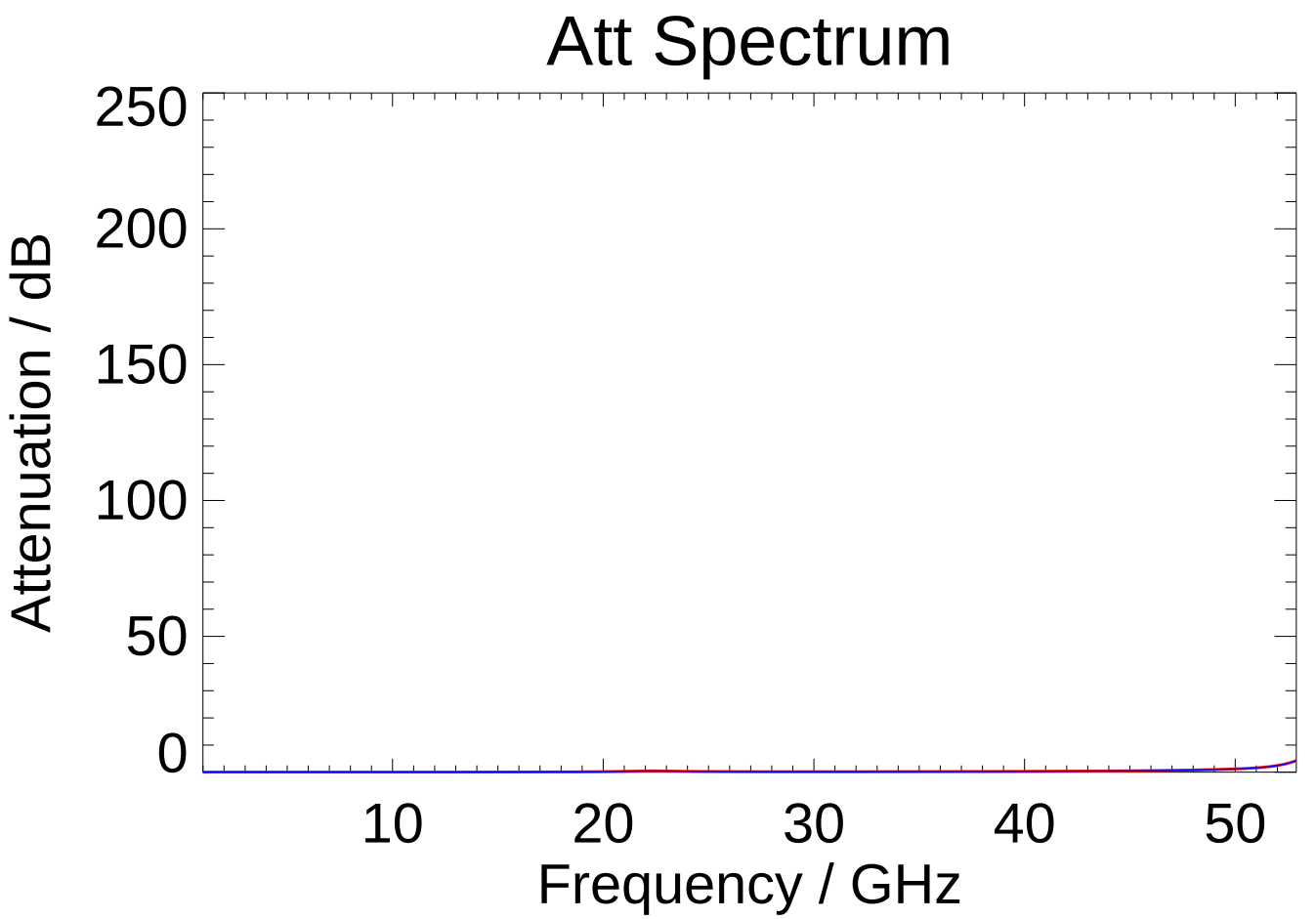
Frequency / GHz


Att Spectrum
Attenuation / dB
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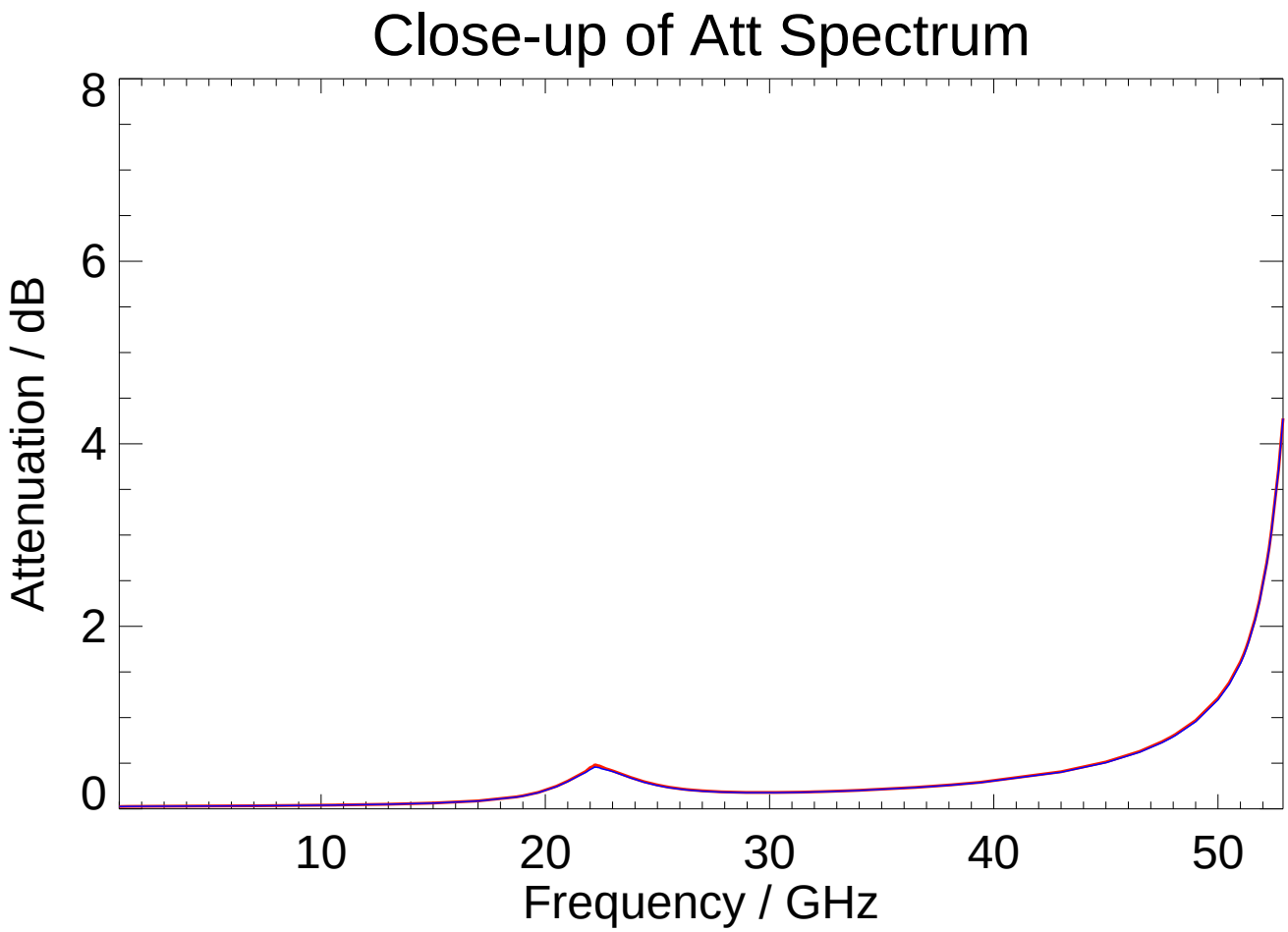
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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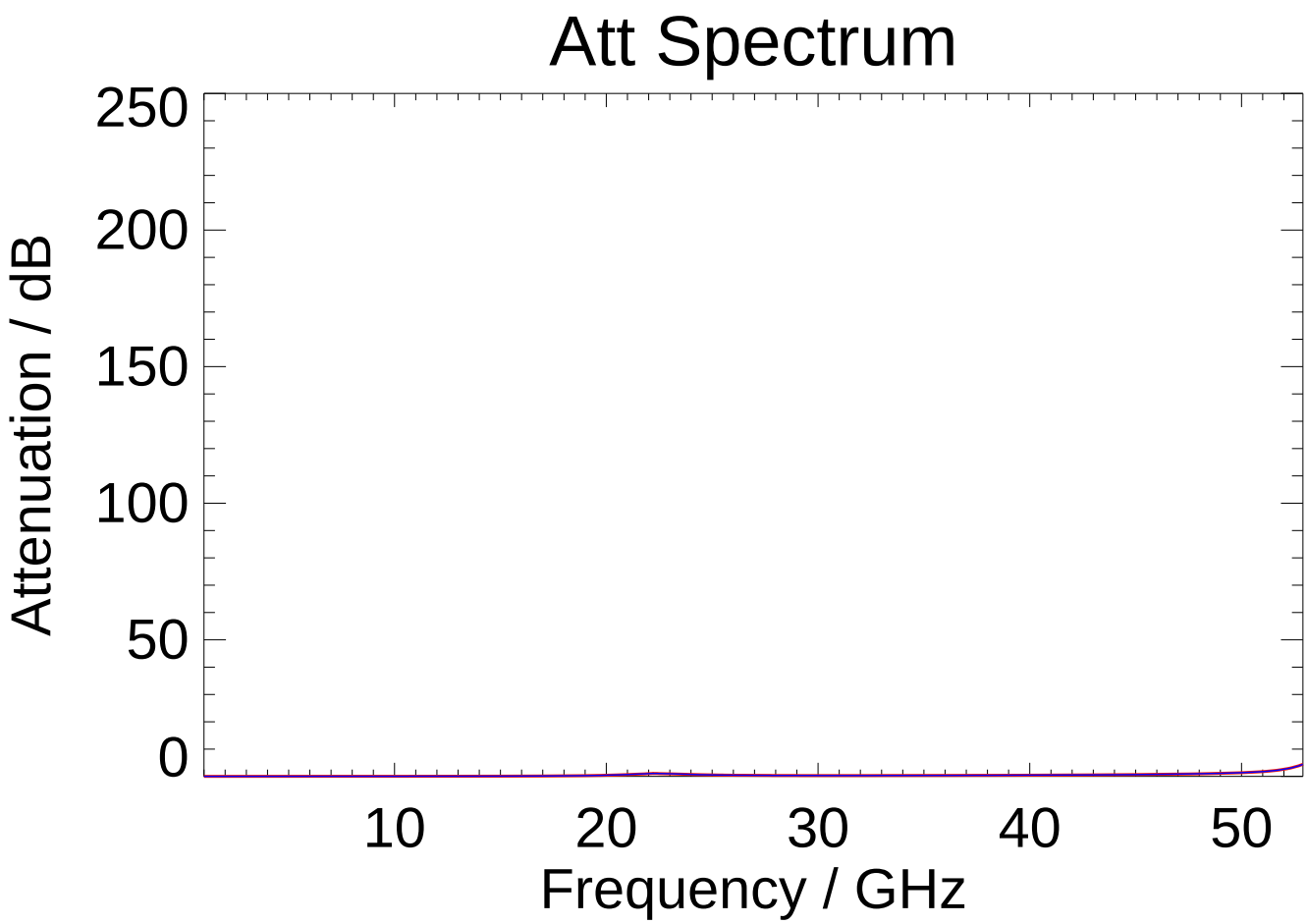
Frequency / GHz


Att Spectrum
Attenuation / dB
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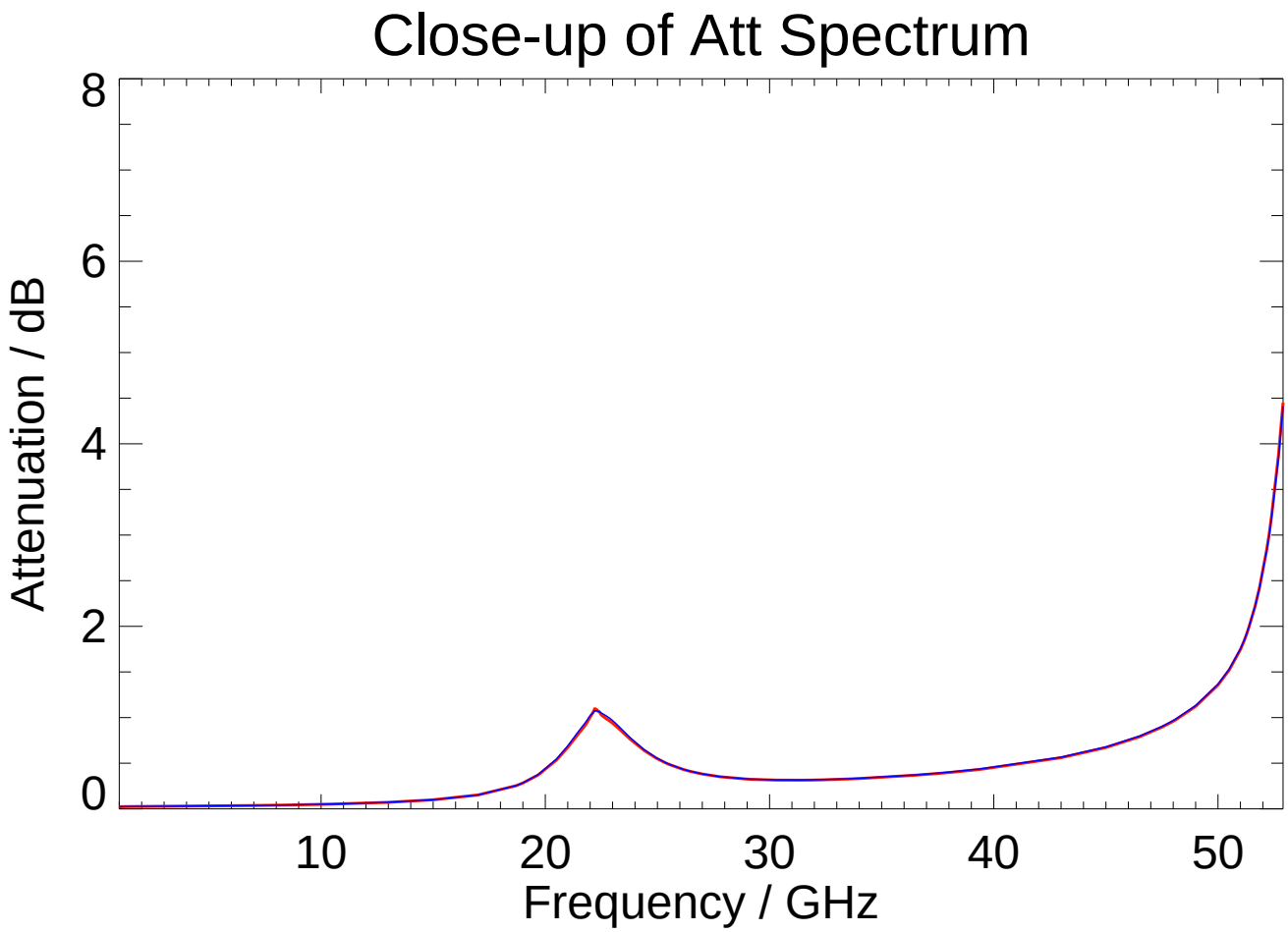
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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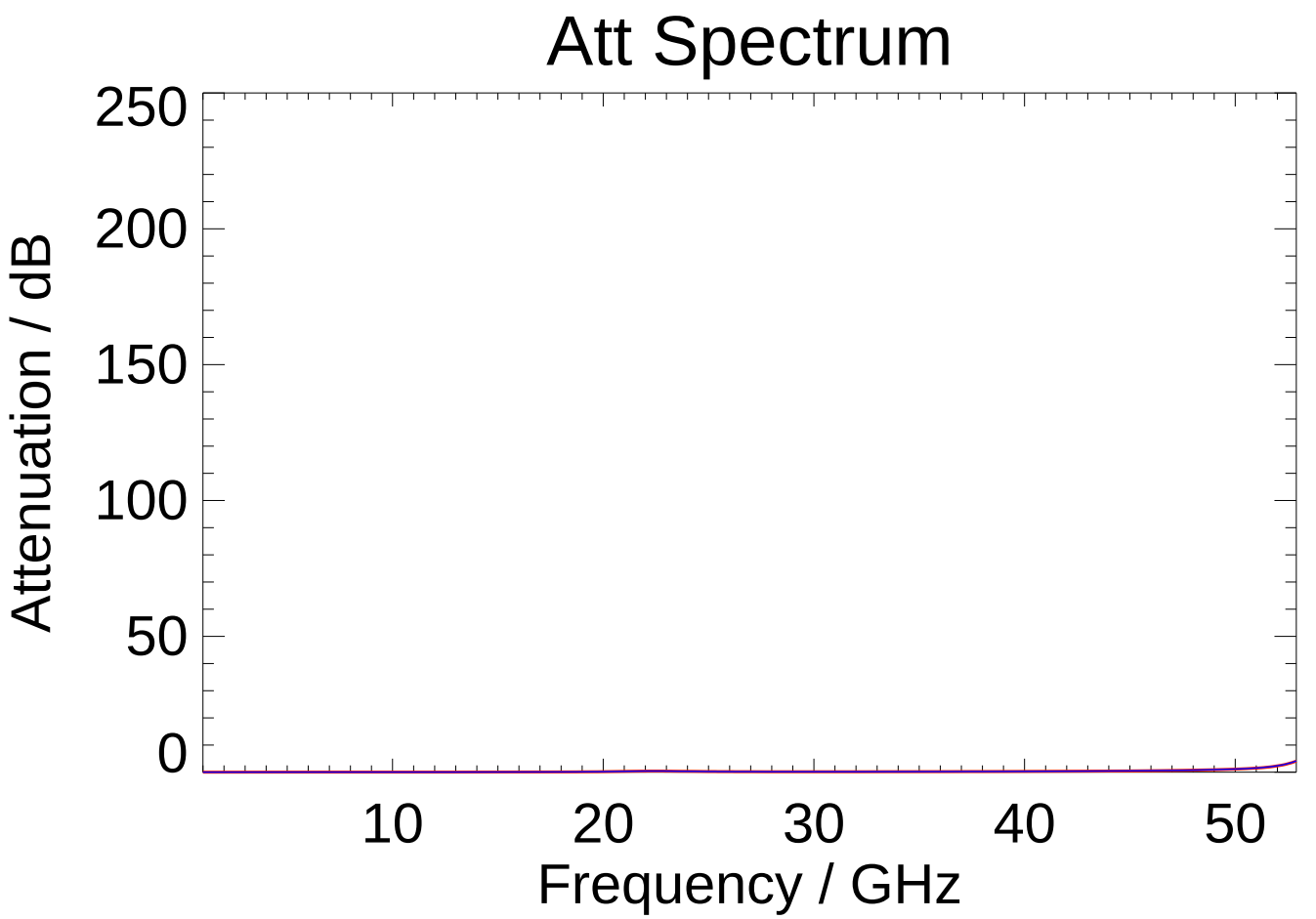
Frequency / GHz


Att Spectrum
Attenuation / dB
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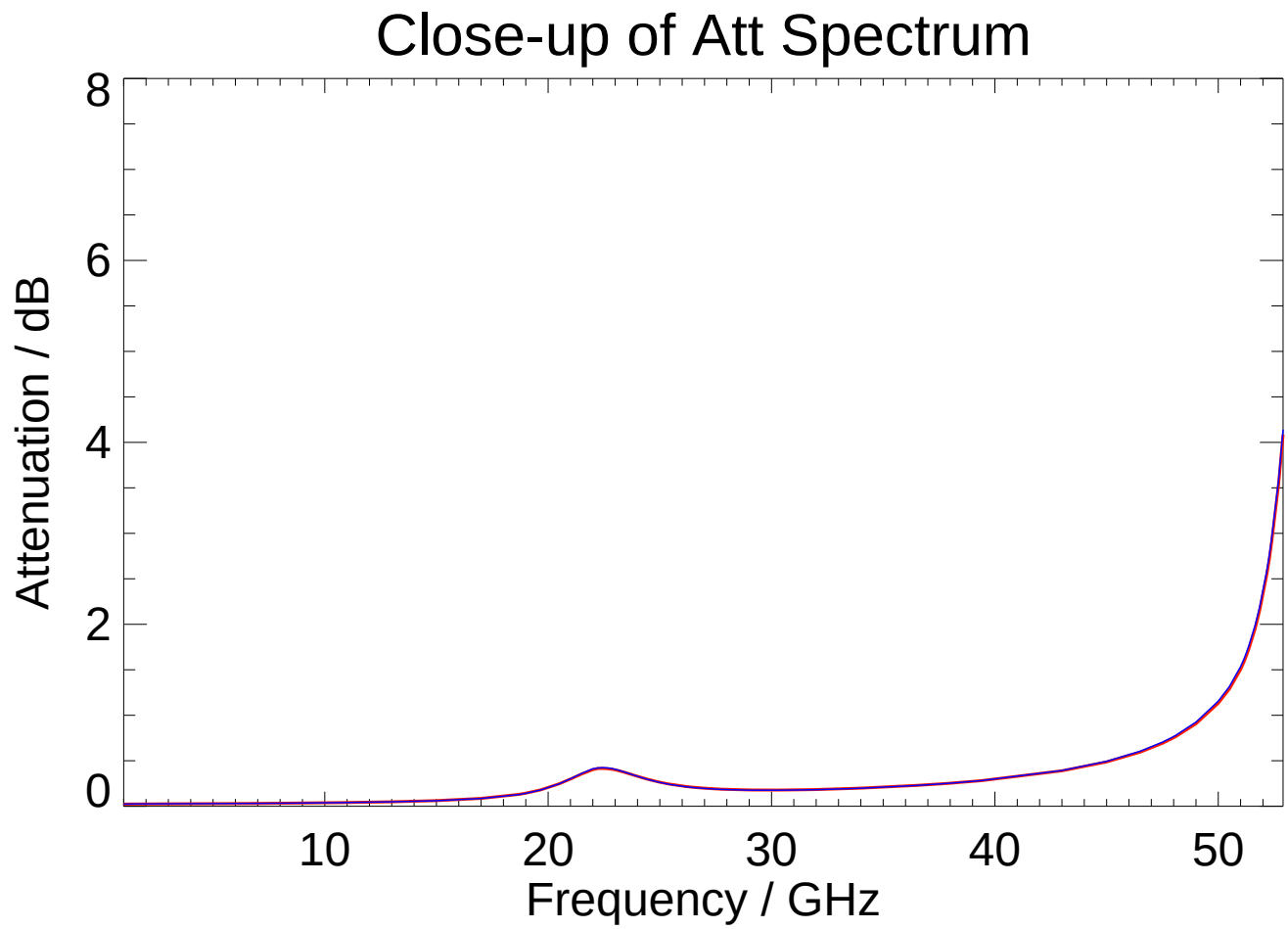
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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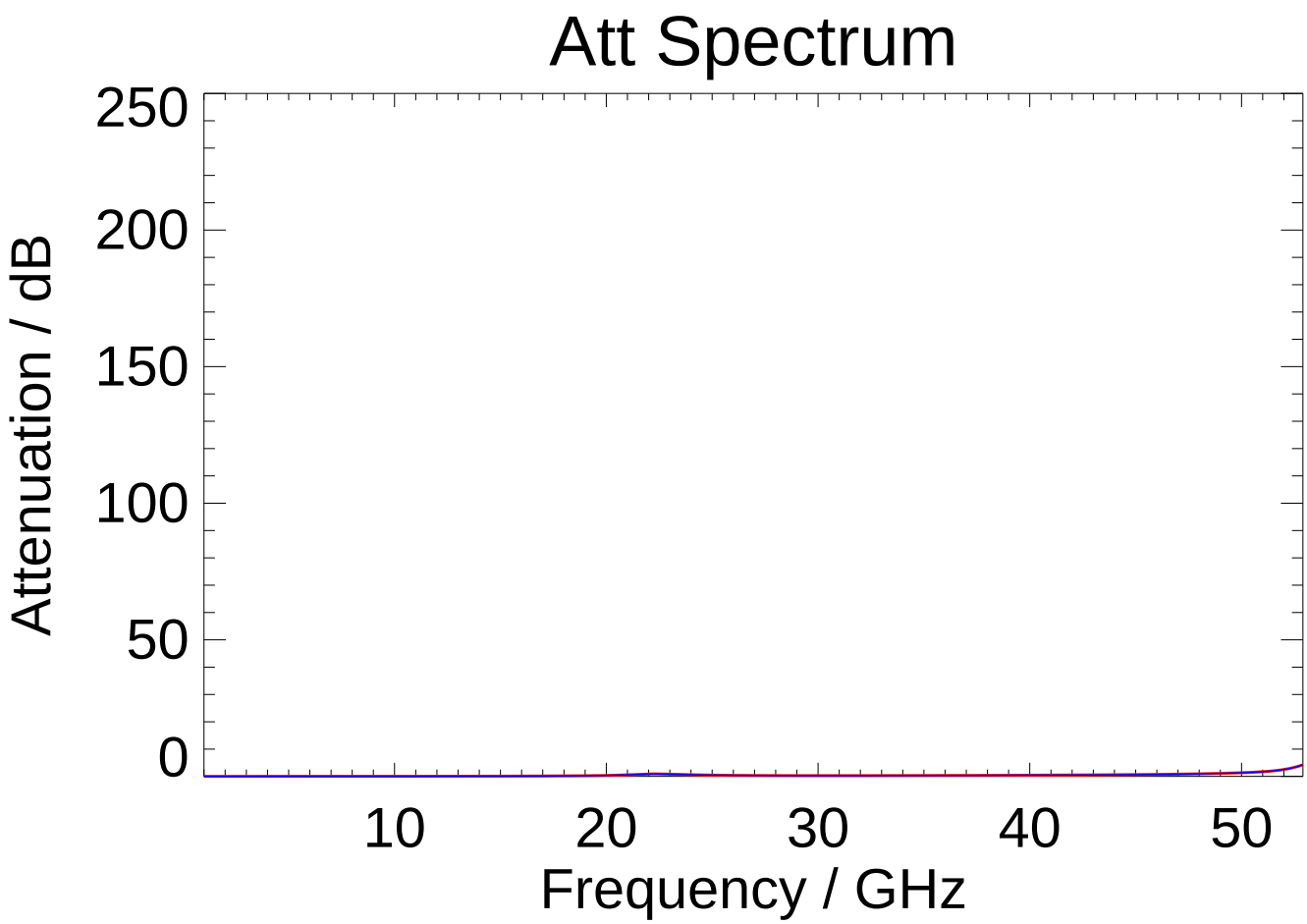
Frequency / GHz


Att Spectrum
Attenuation / dB
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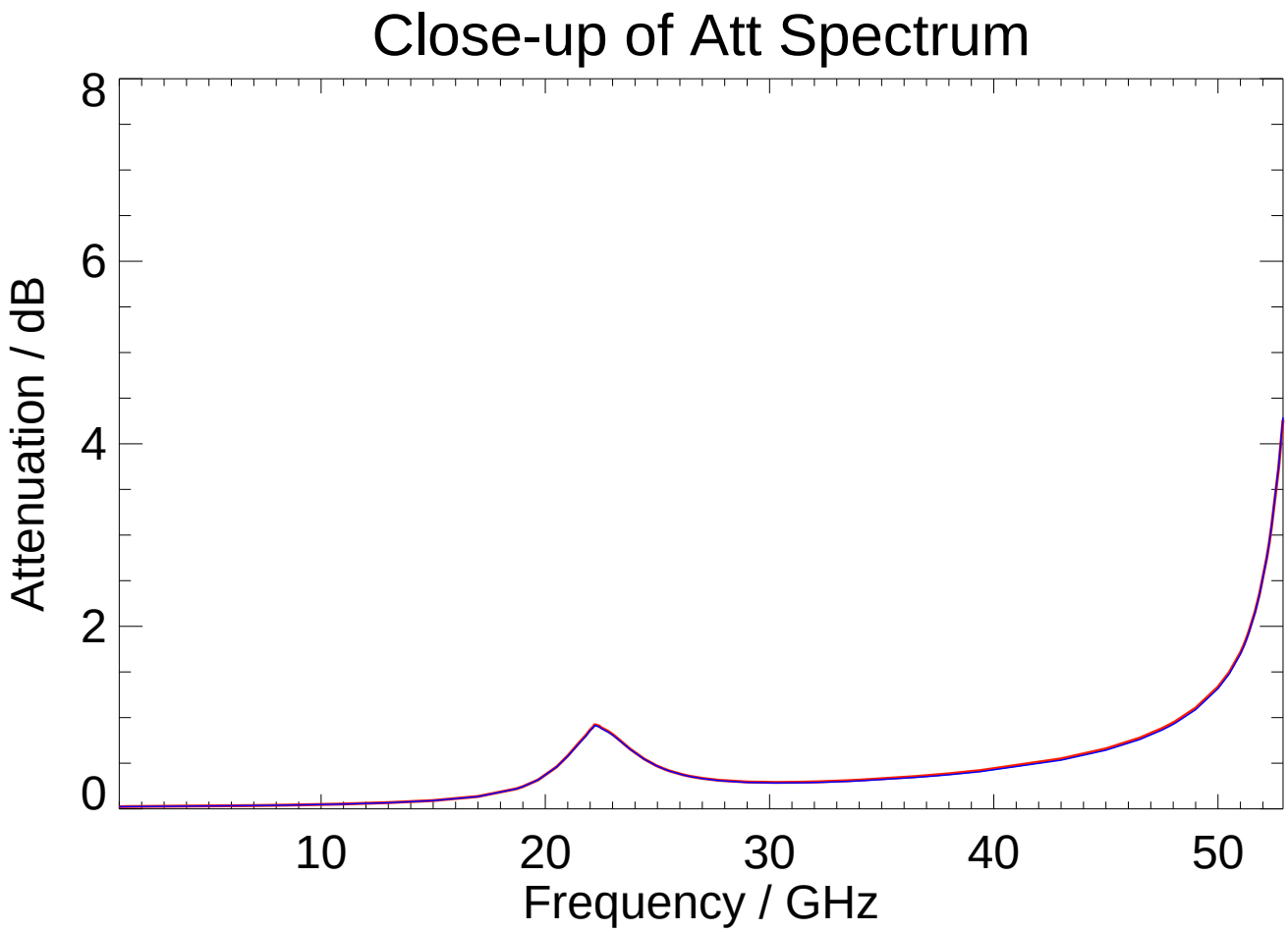
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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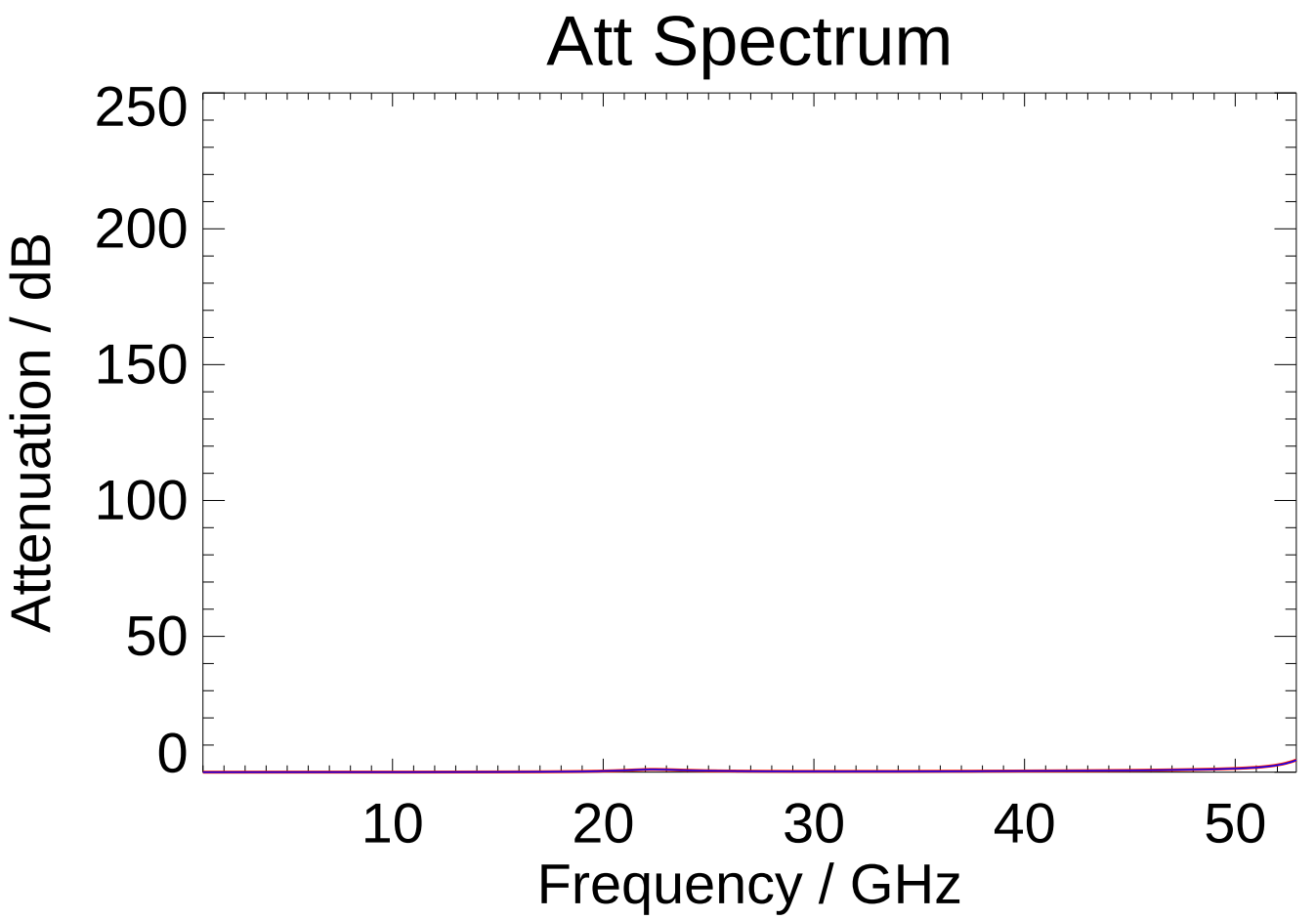
Frequency / GHz


Att Spectrum
Attenuation / dB
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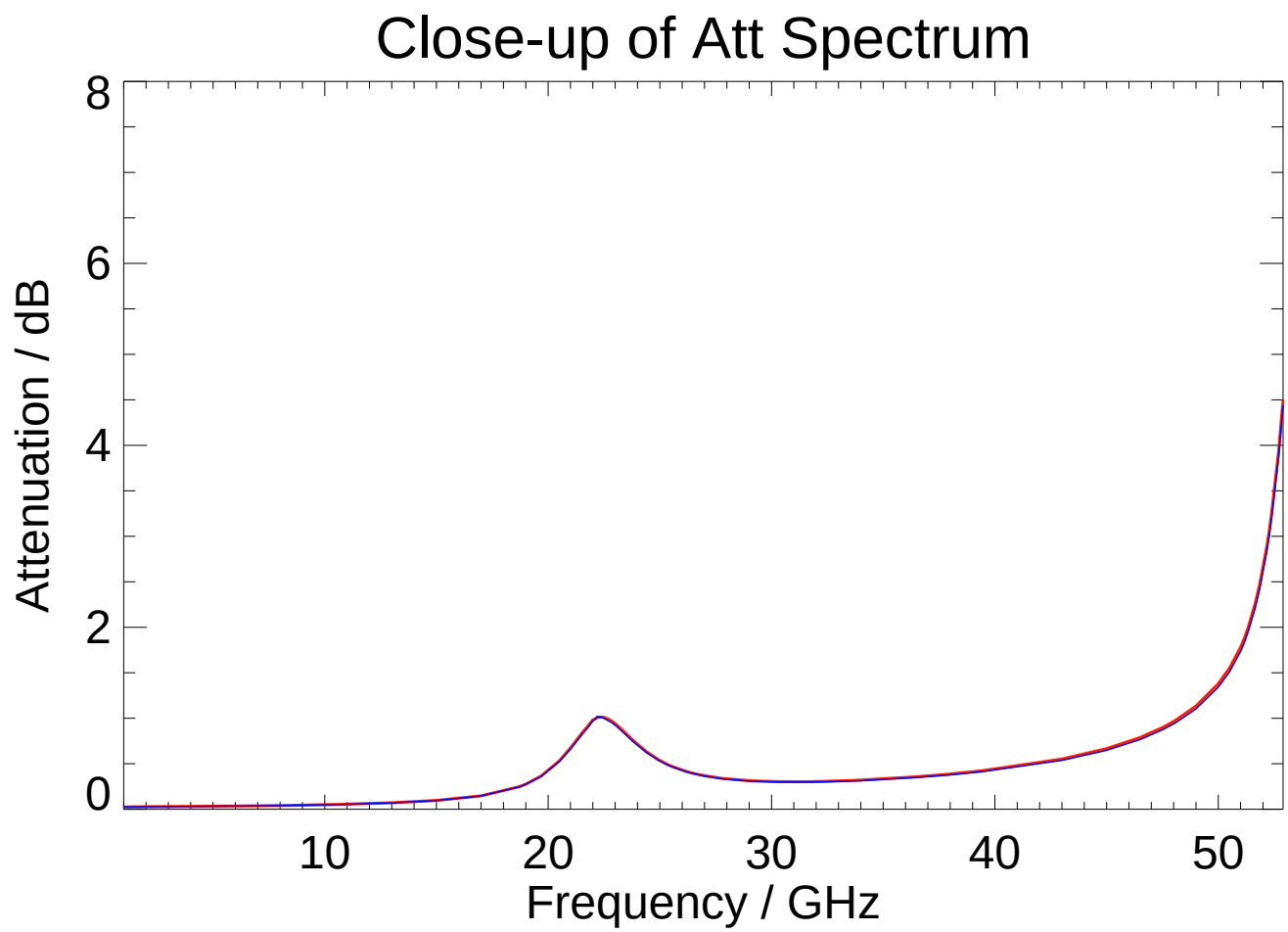
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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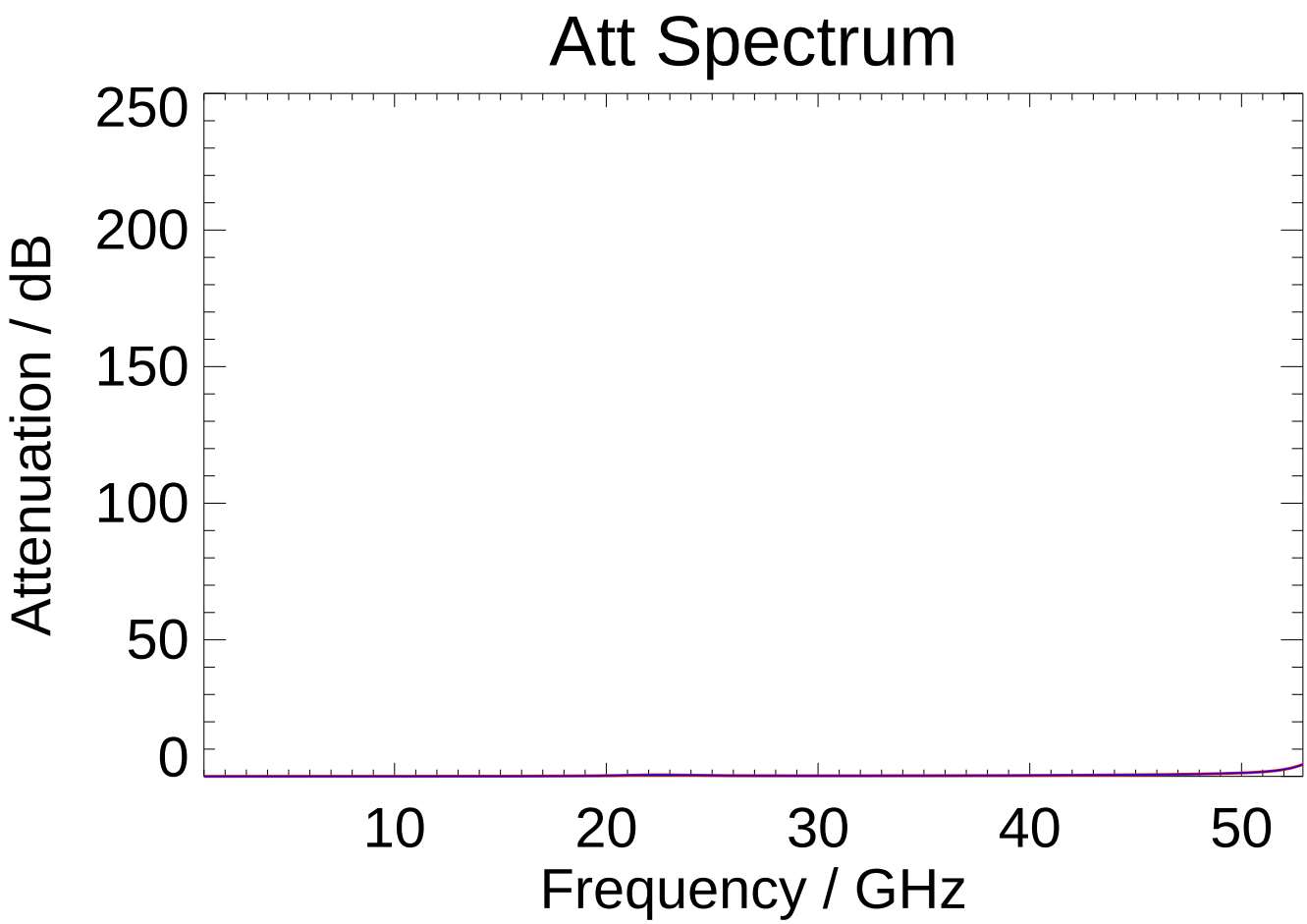
Frequency / GHz


Att Spectrum
Attenuation / dB
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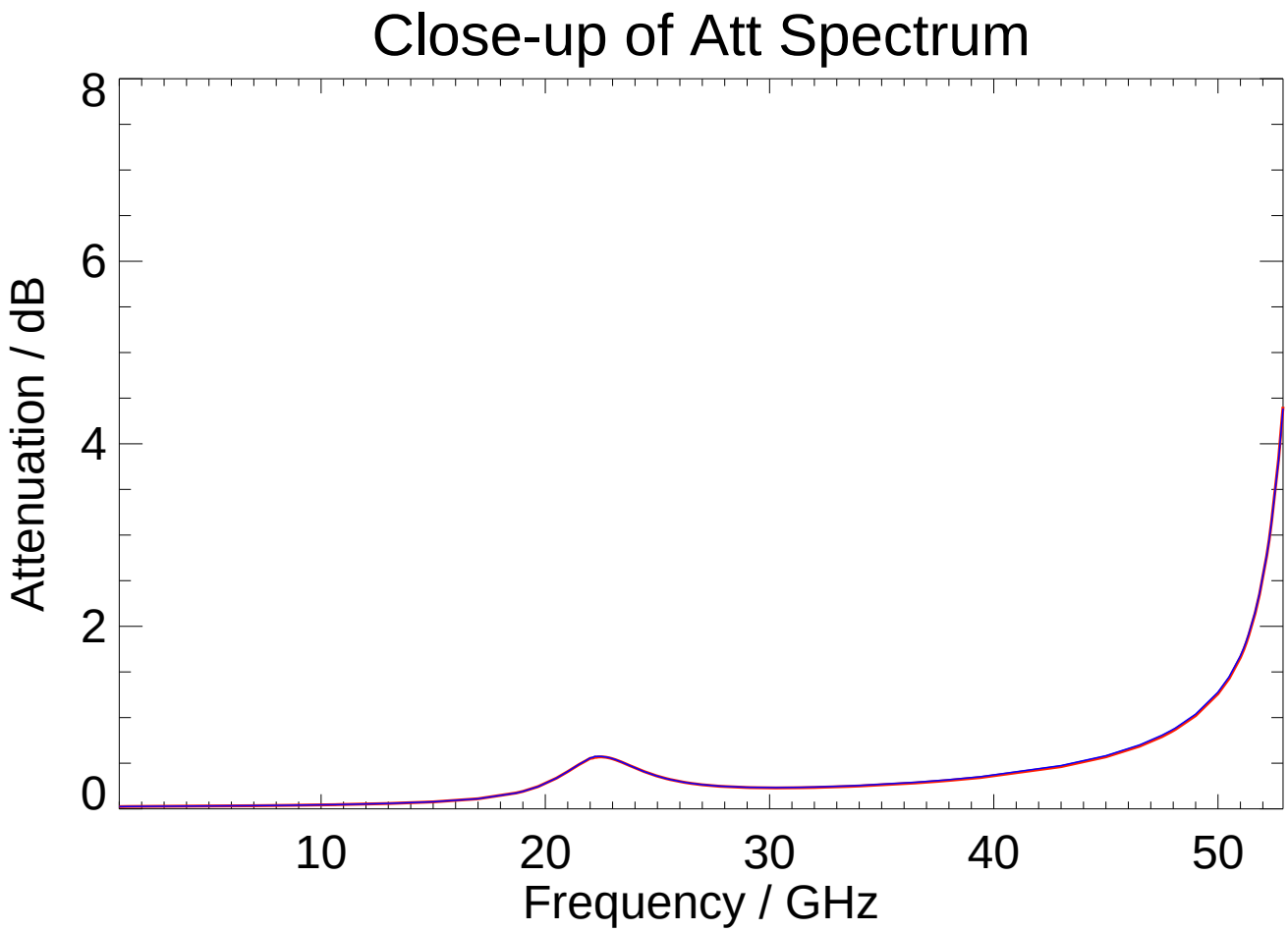
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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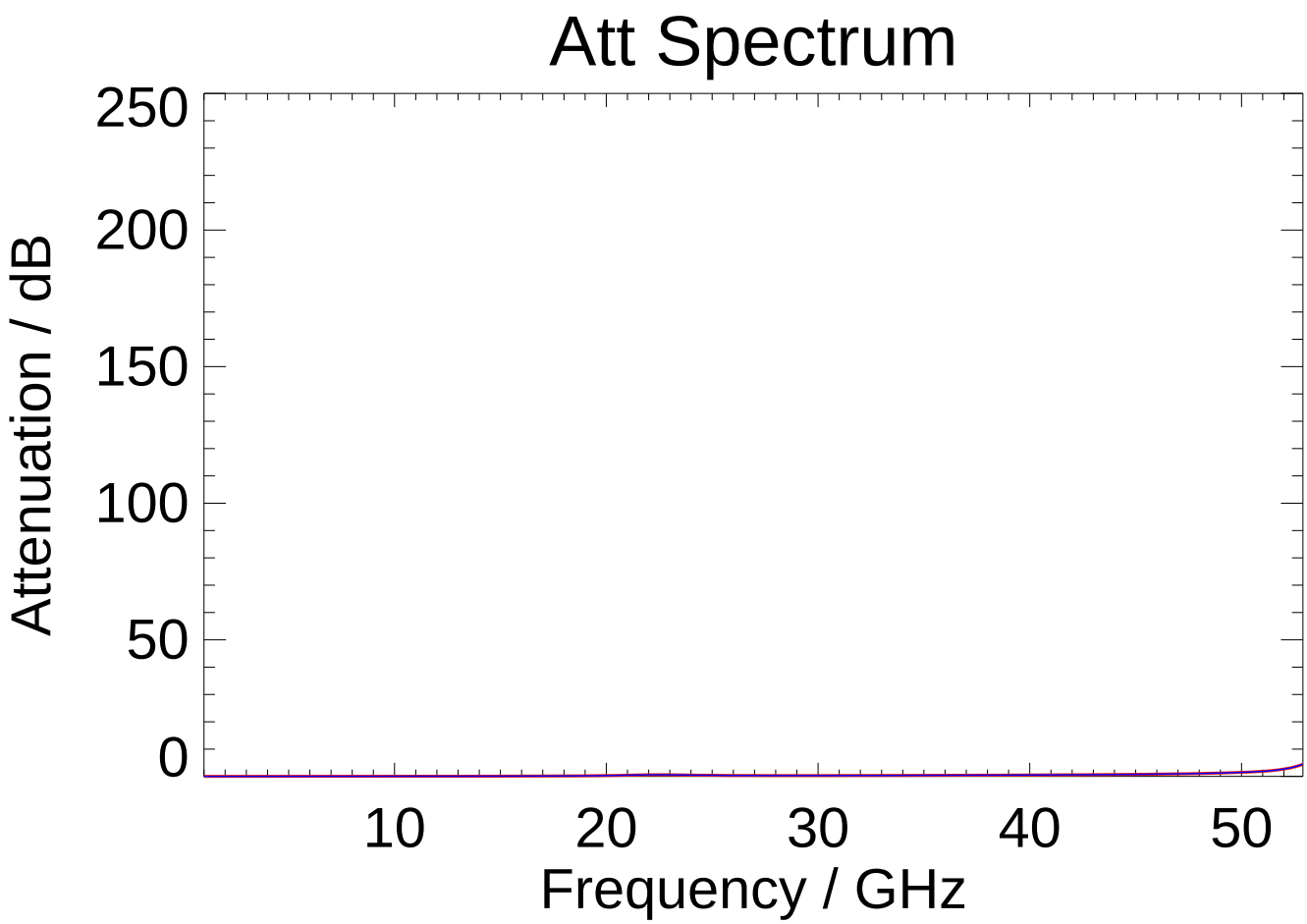
Frequency / GHz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Attenuation / dB
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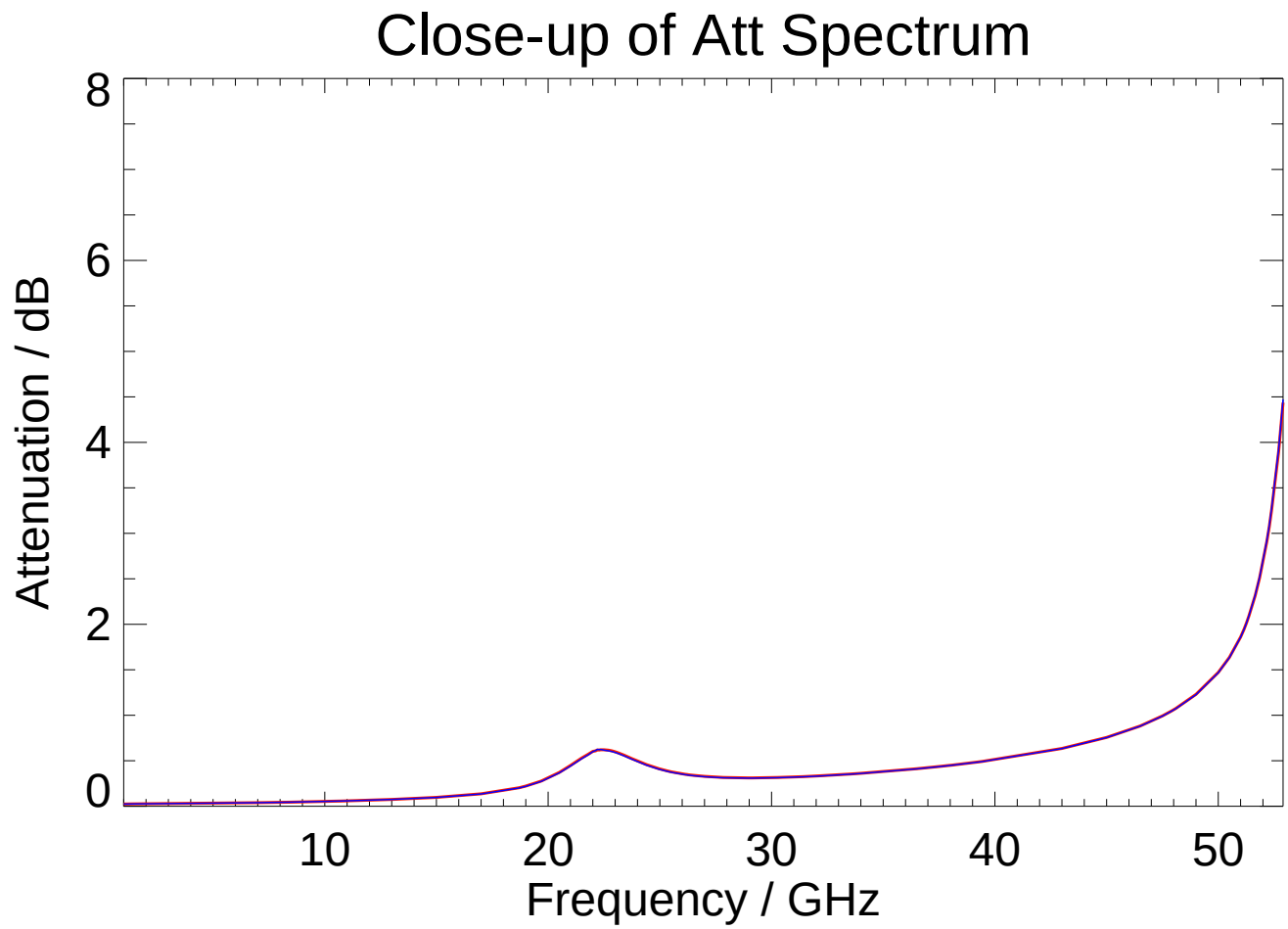
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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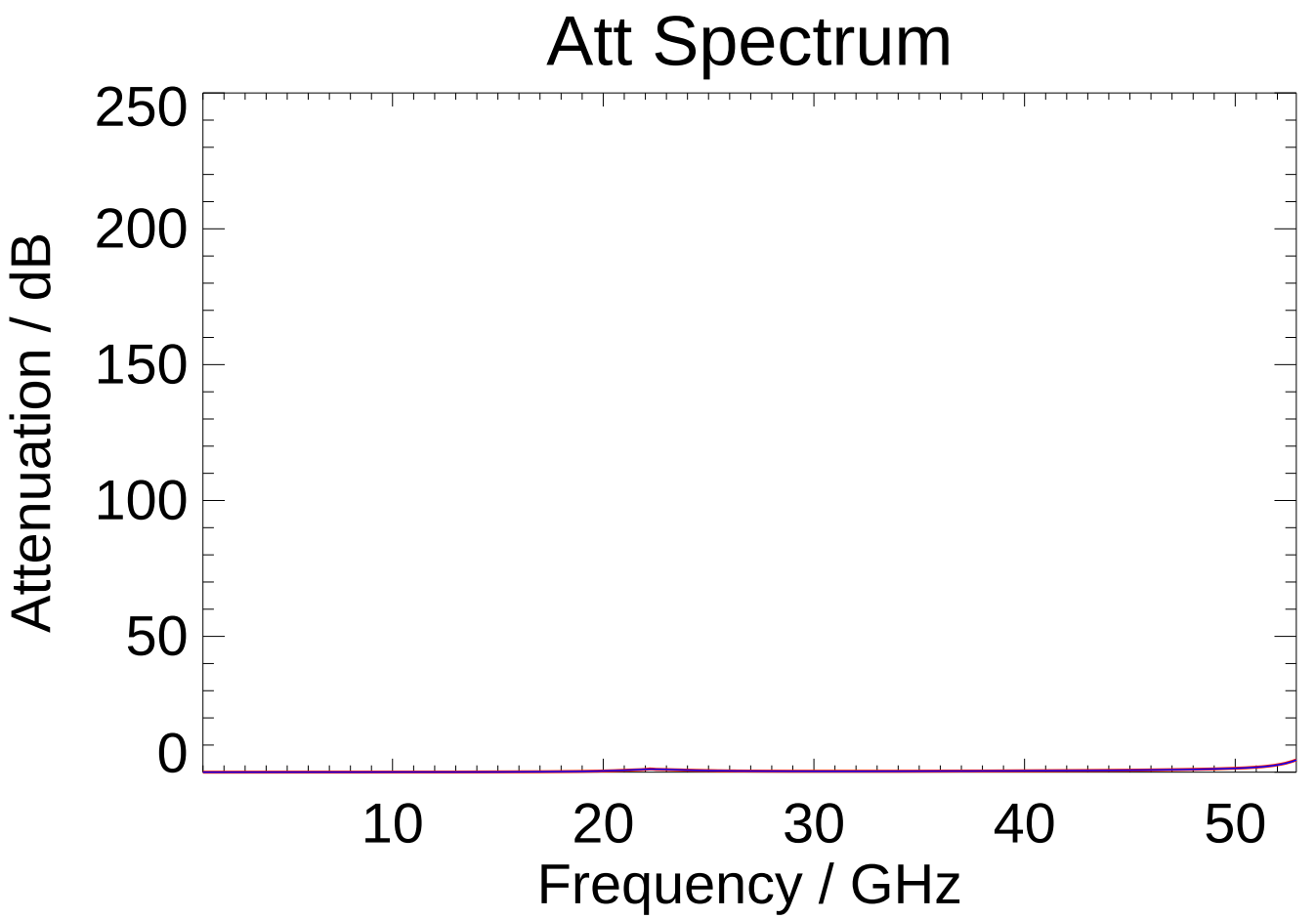
Frequency / GHz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Attenuation / dB
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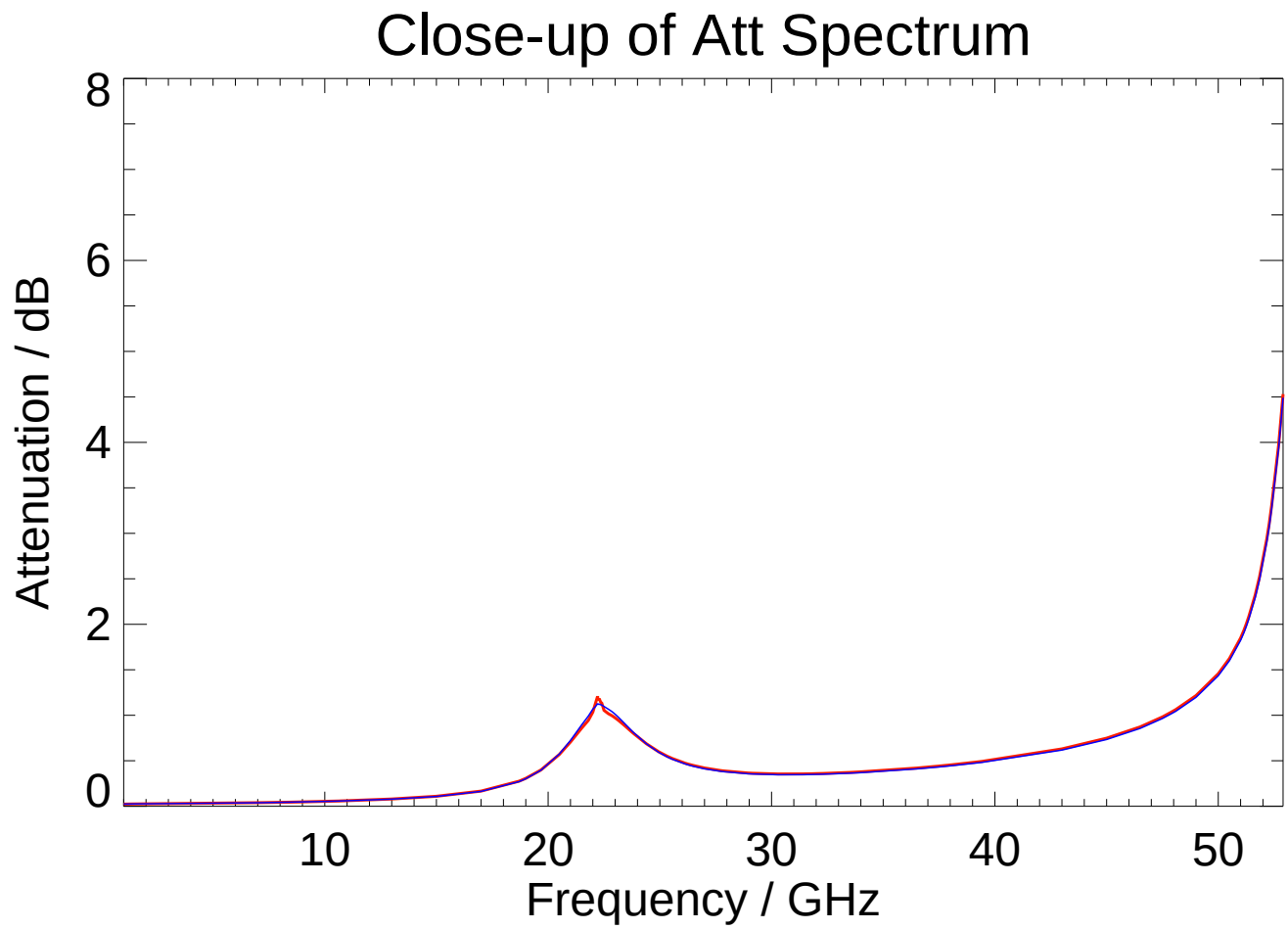
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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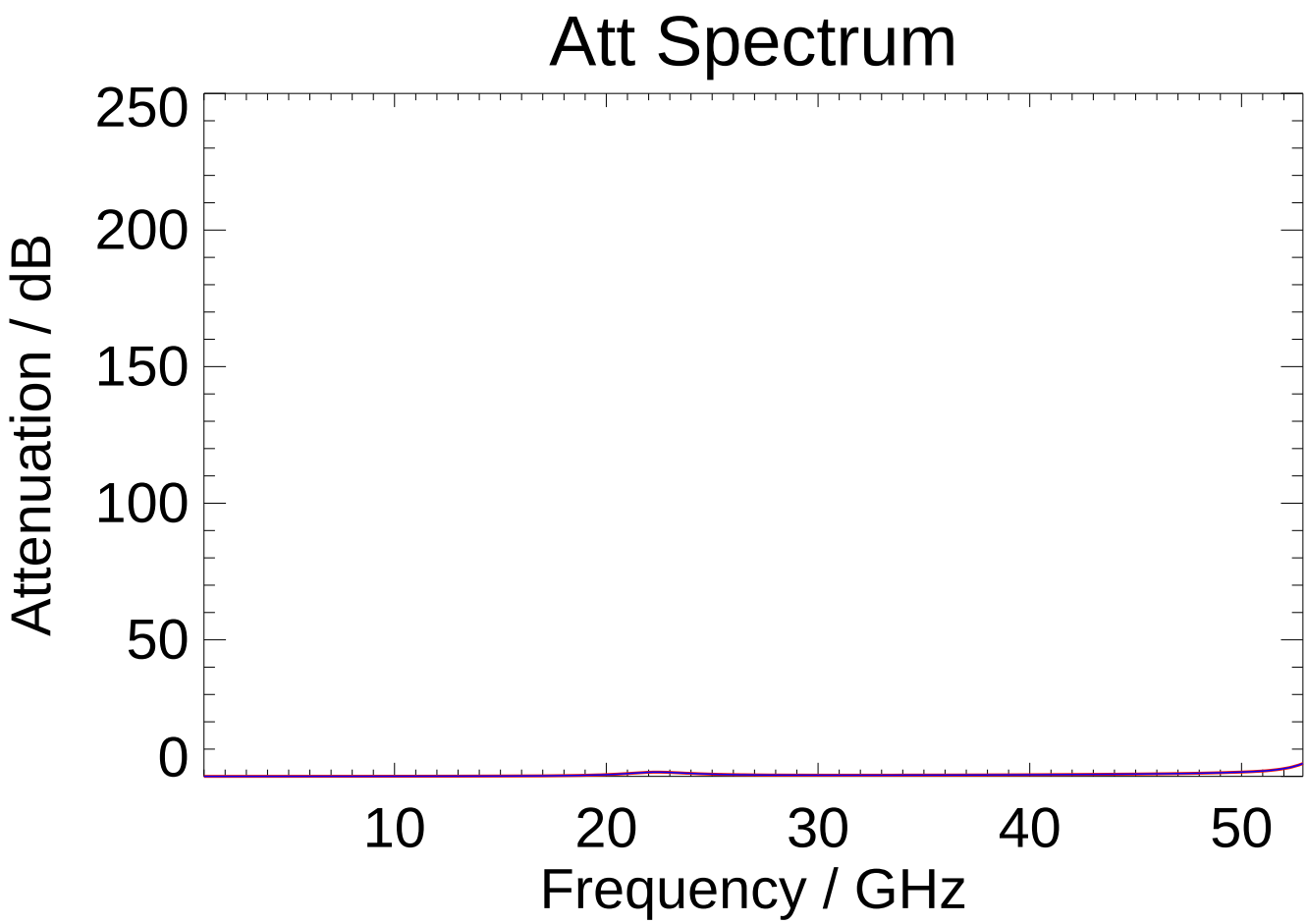
Frequency / GHz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Attenuation / dB
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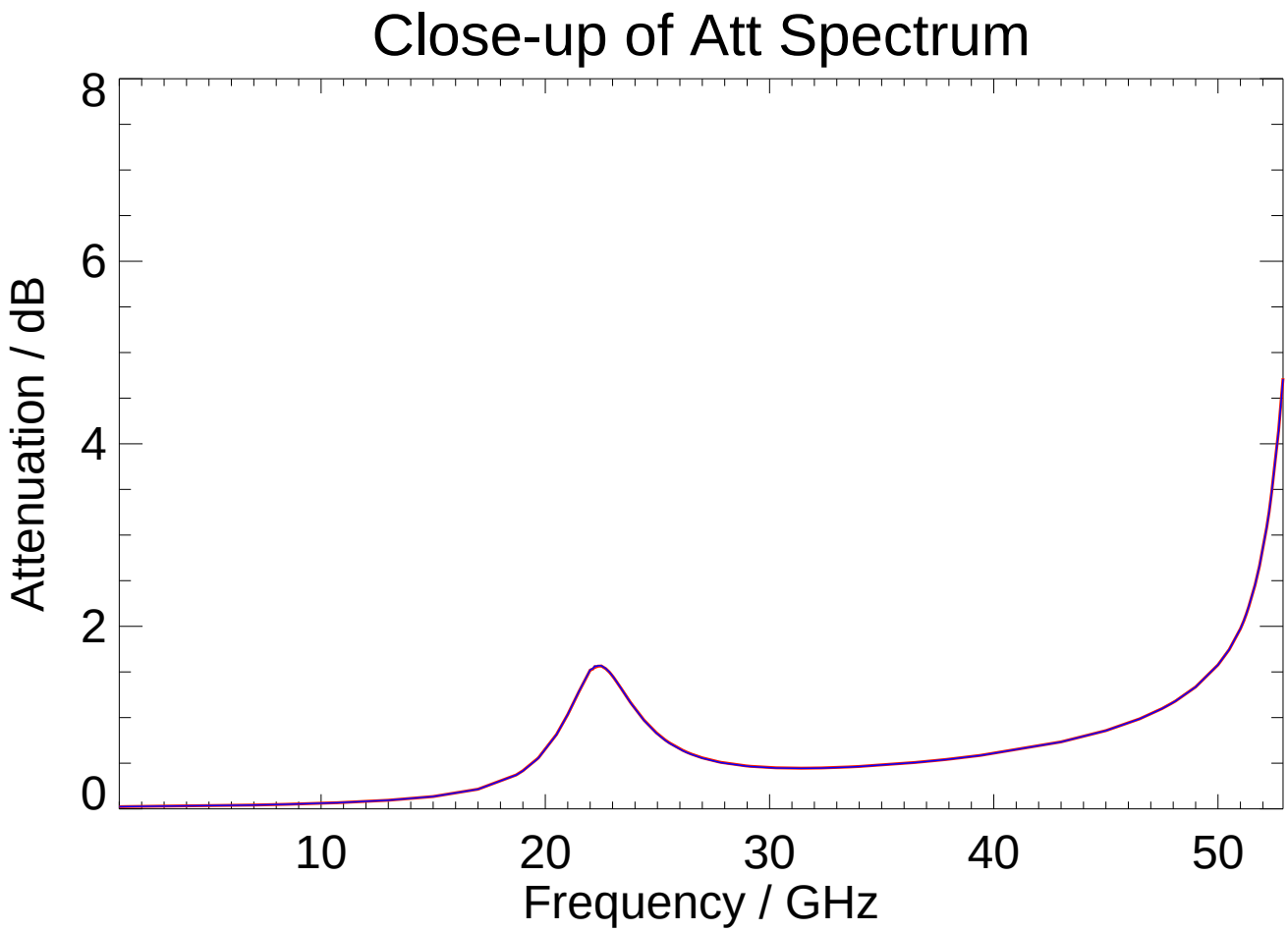
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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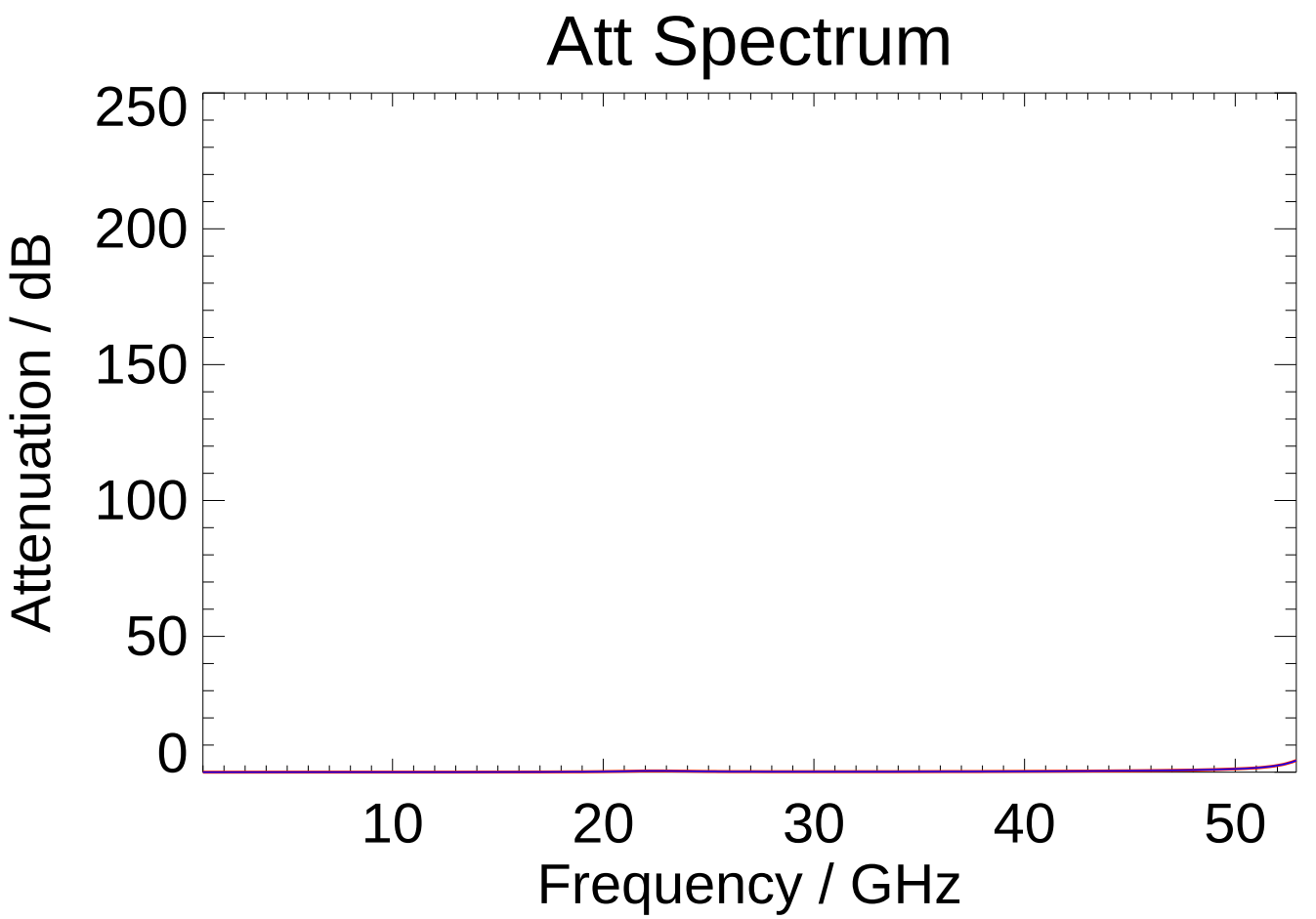
Frequency / GHz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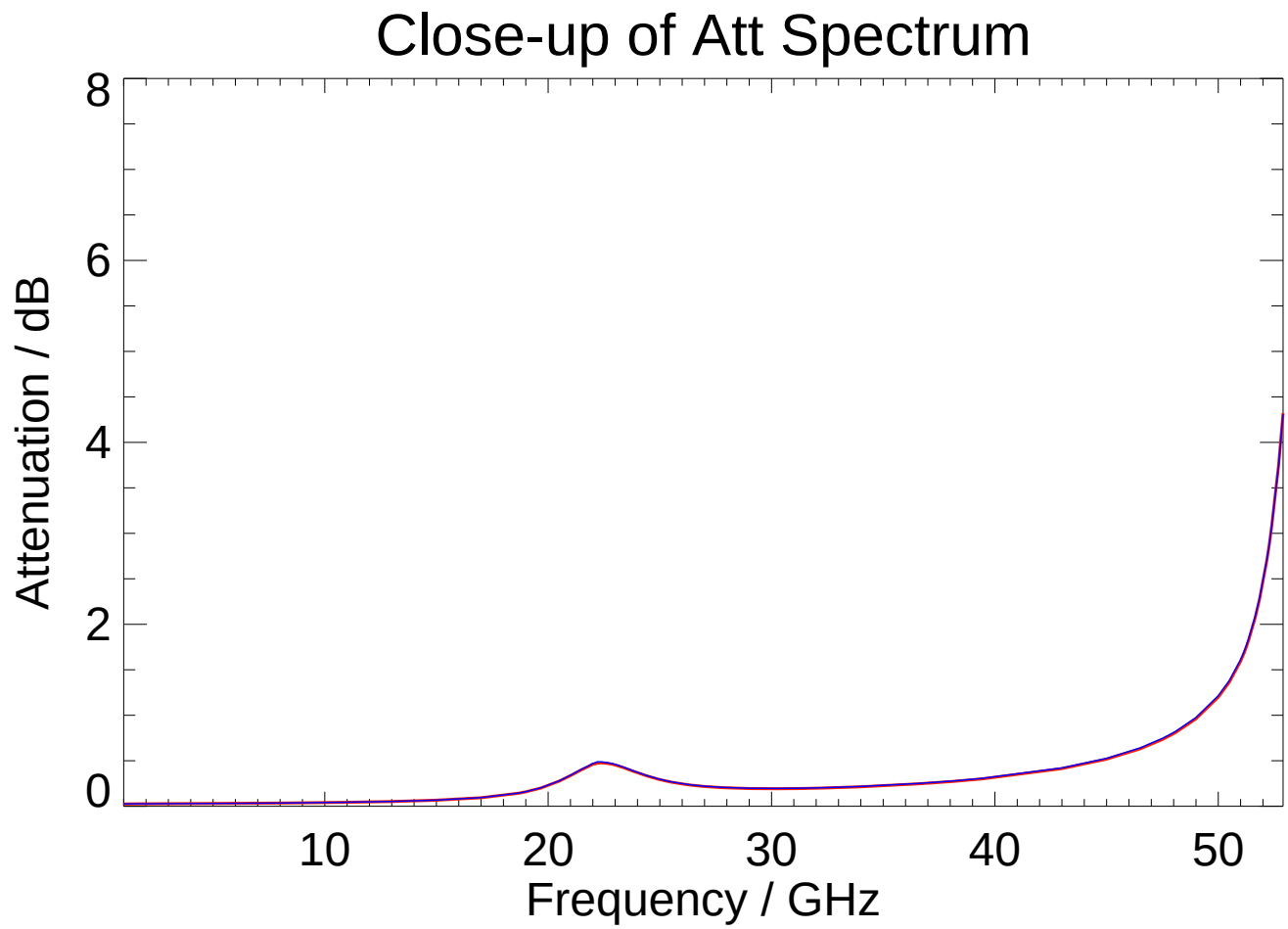
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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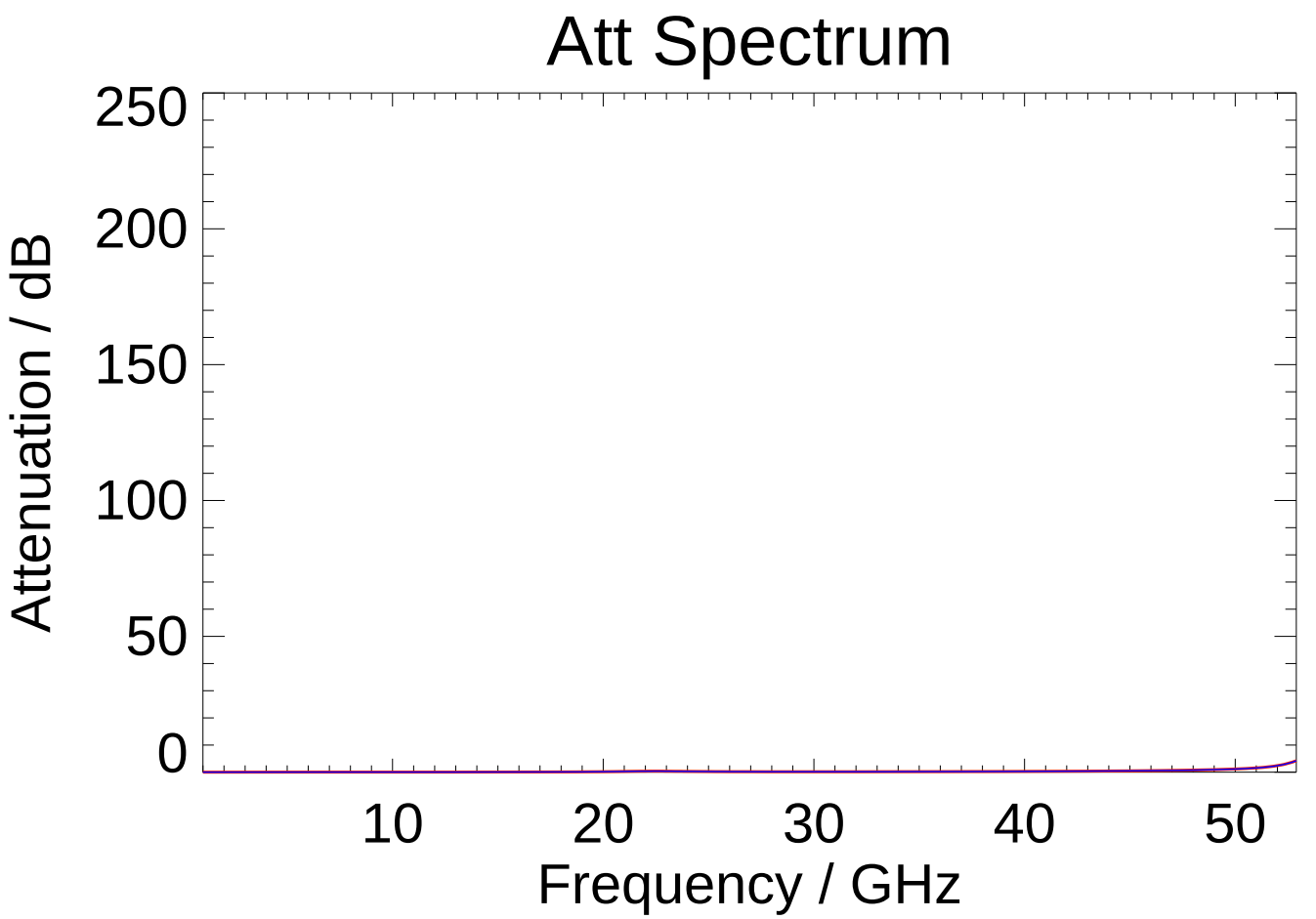
Frequency / GHz


Att Spectrum
Attenuation / dB
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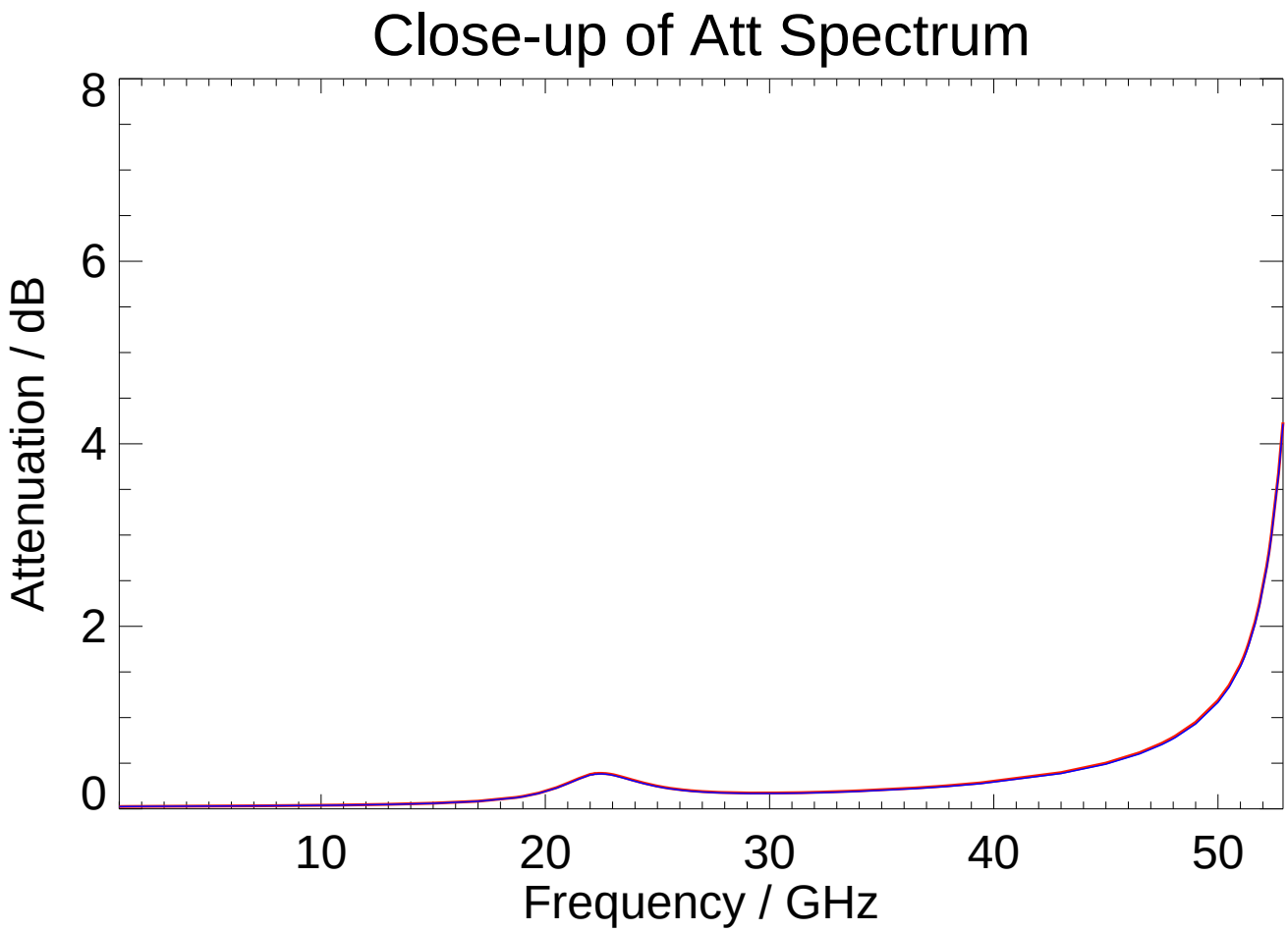
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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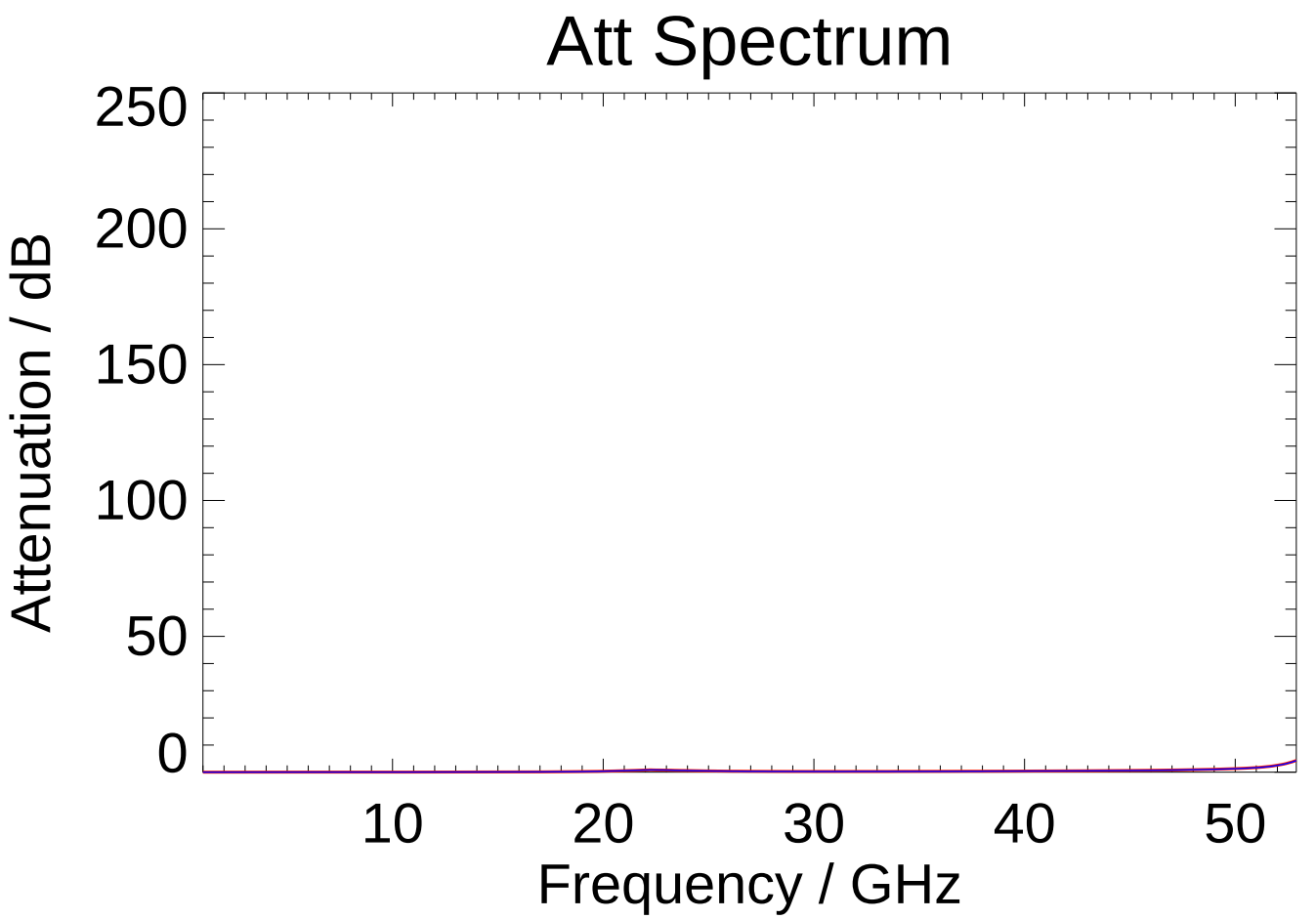
Frequency / GHz


Att Spectrum
Attenuation / dB
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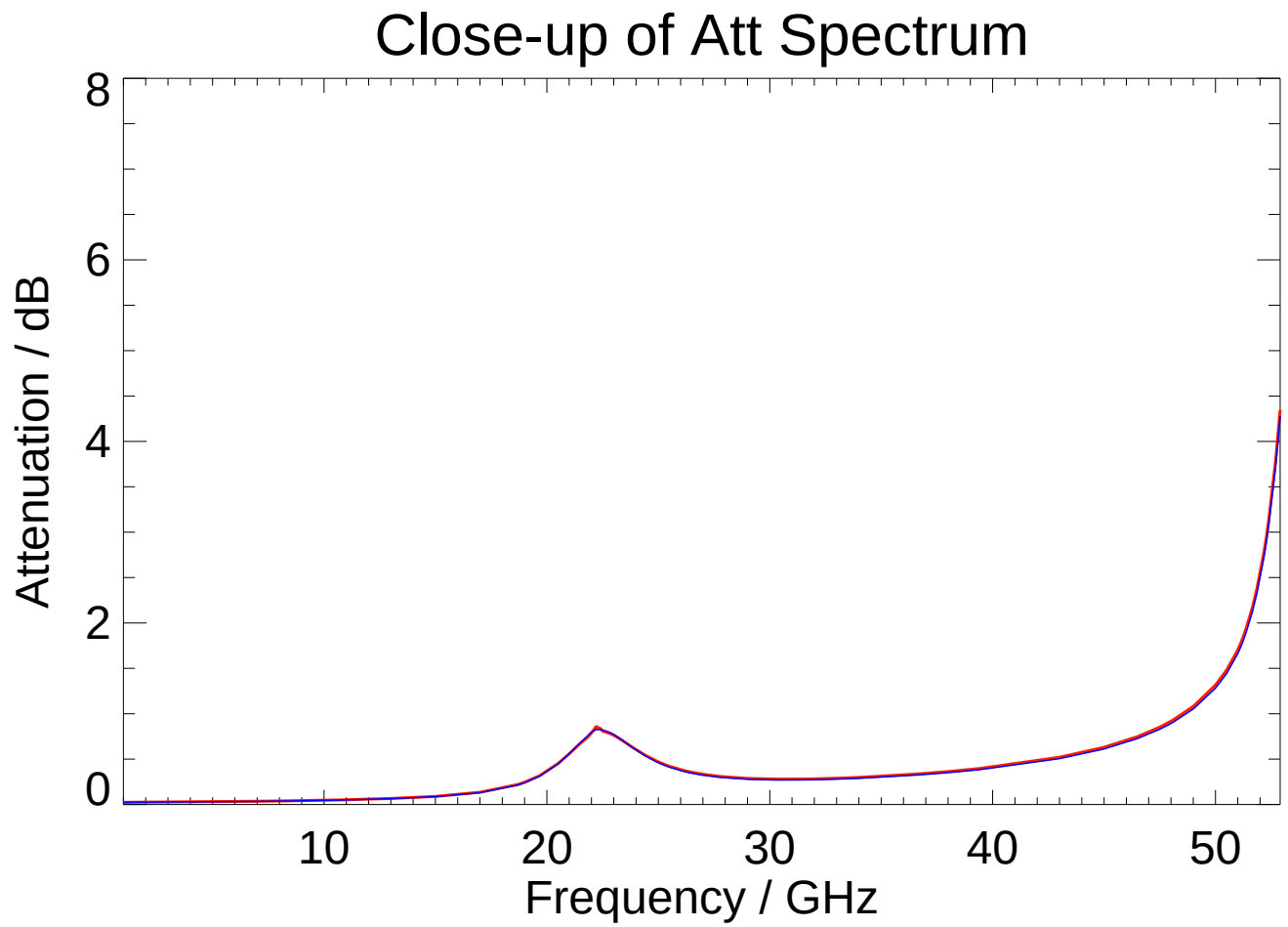
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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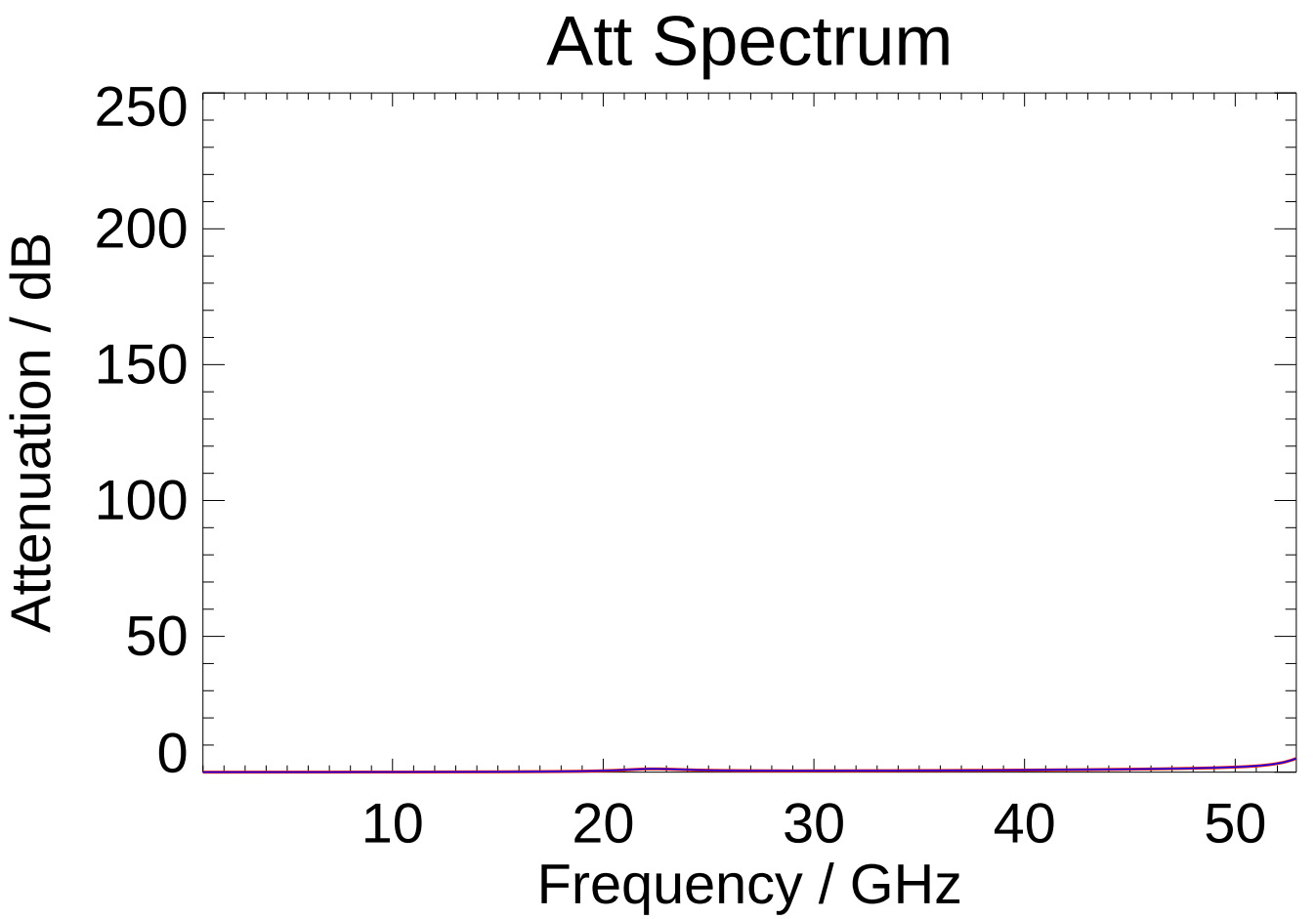
Frequency / GHz


Att Spectrum
Attenuation / dB
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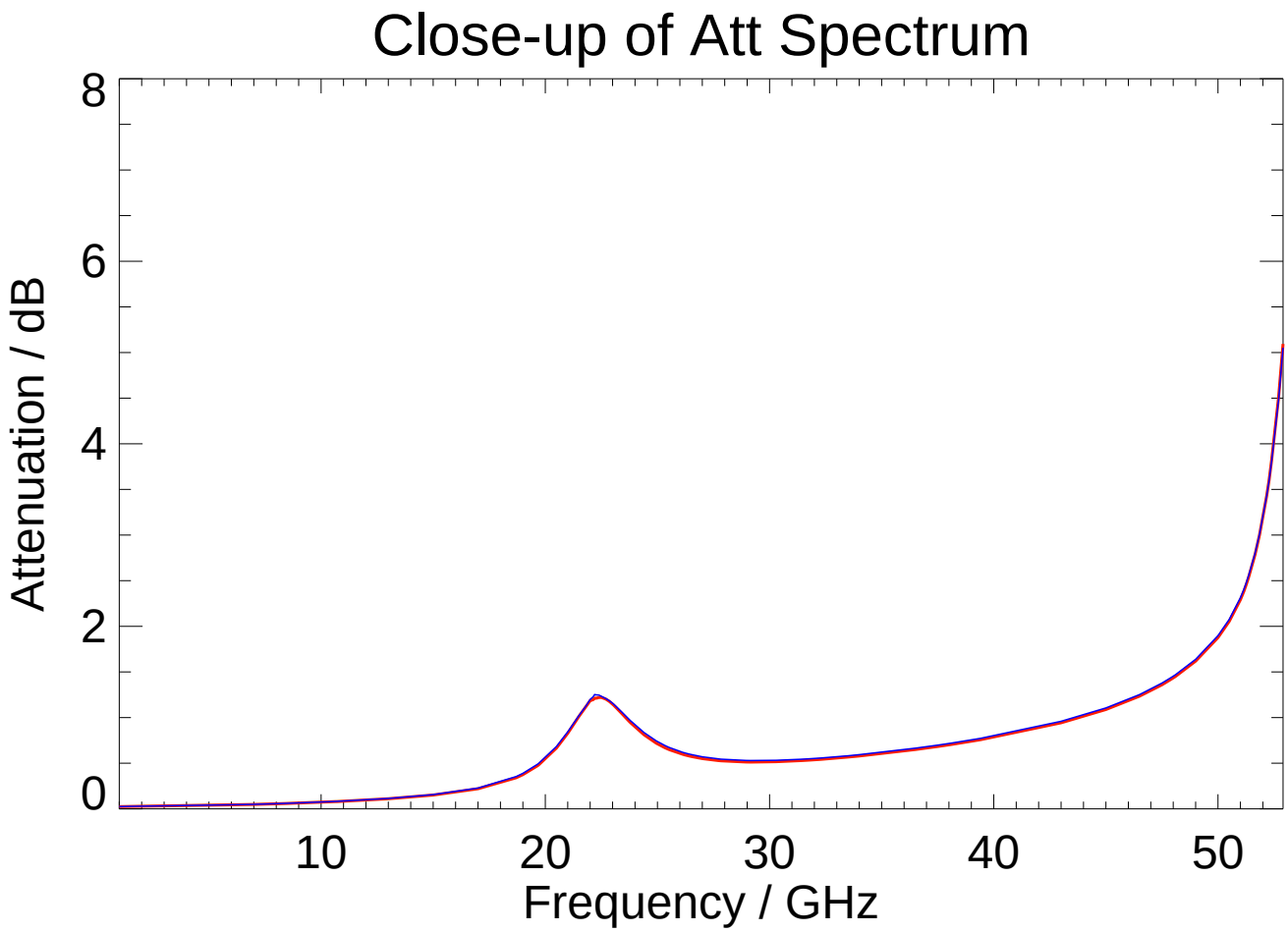
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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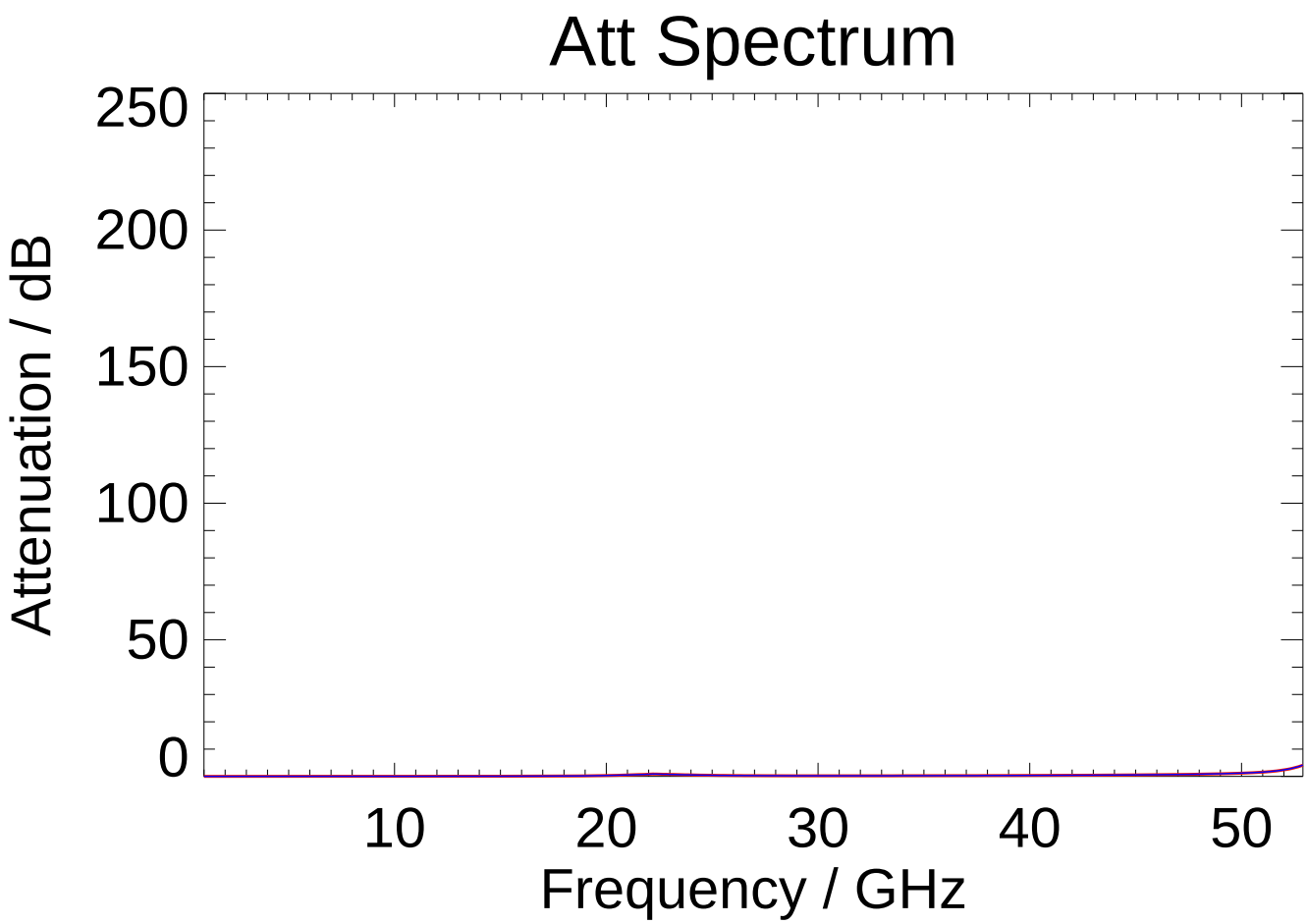
Frequency / GHz


Att Spectrum
Attenuation / dB
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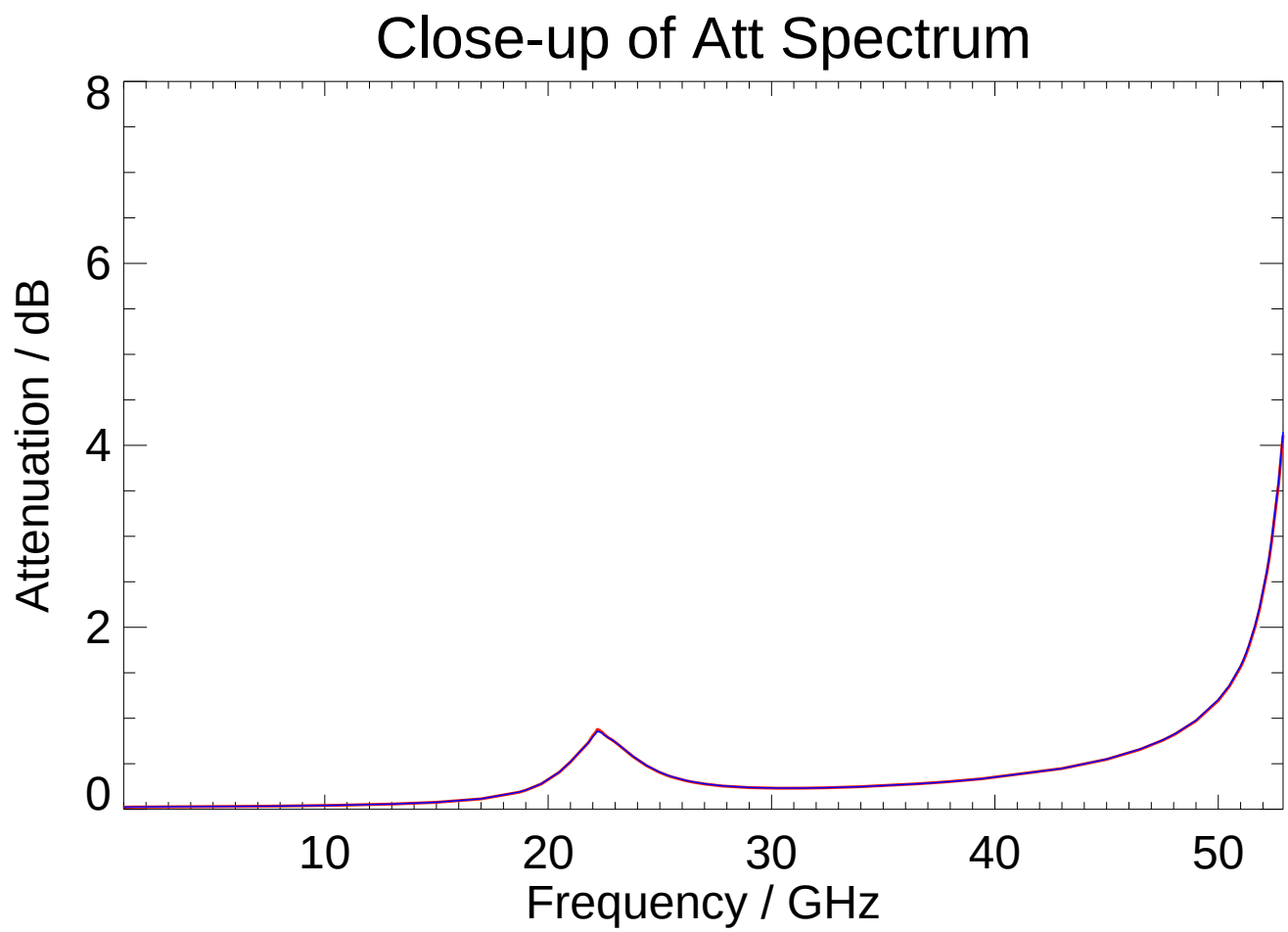
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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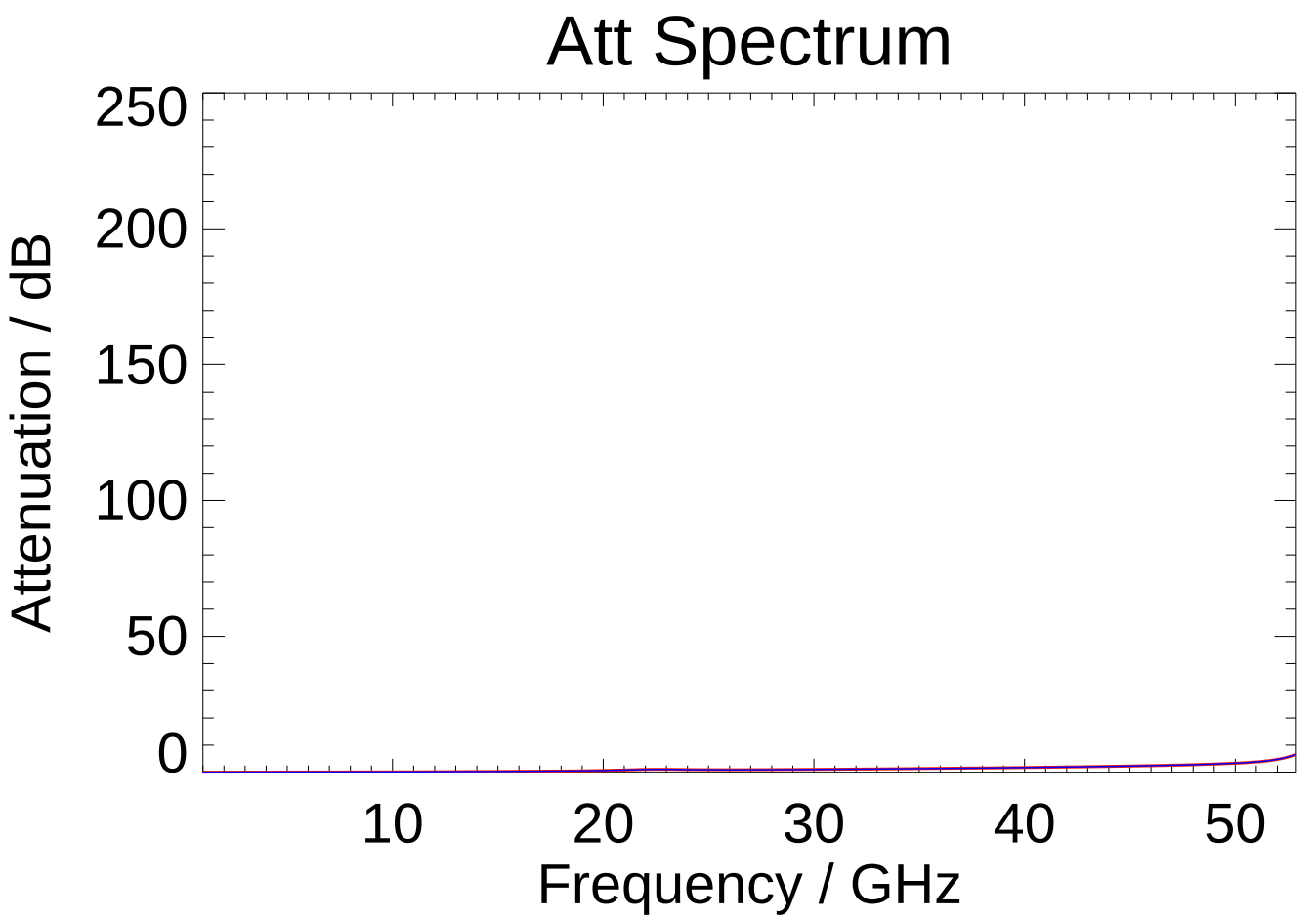
Frequency / GHz


Att Spectrum
Attenuation / dB
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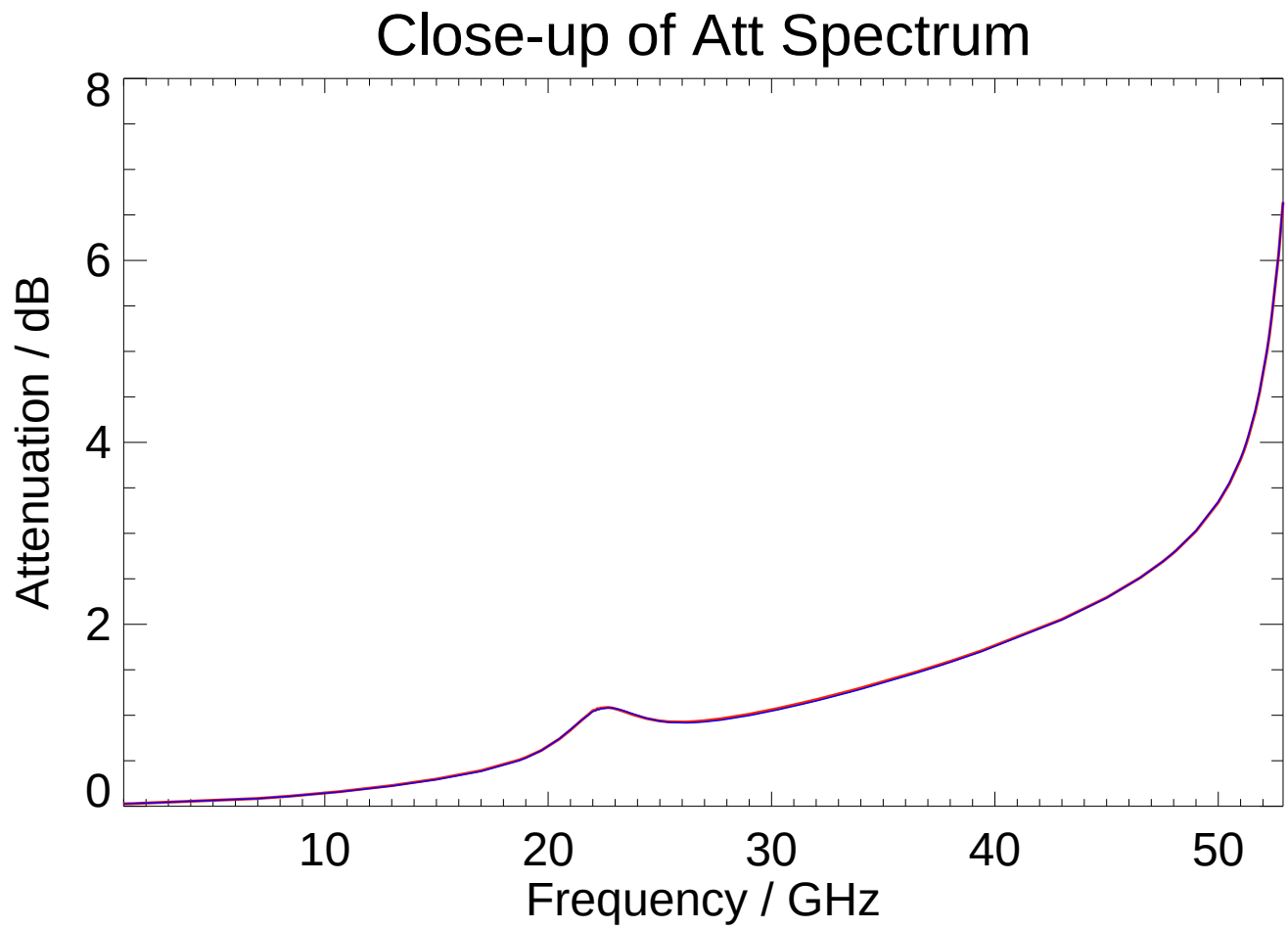
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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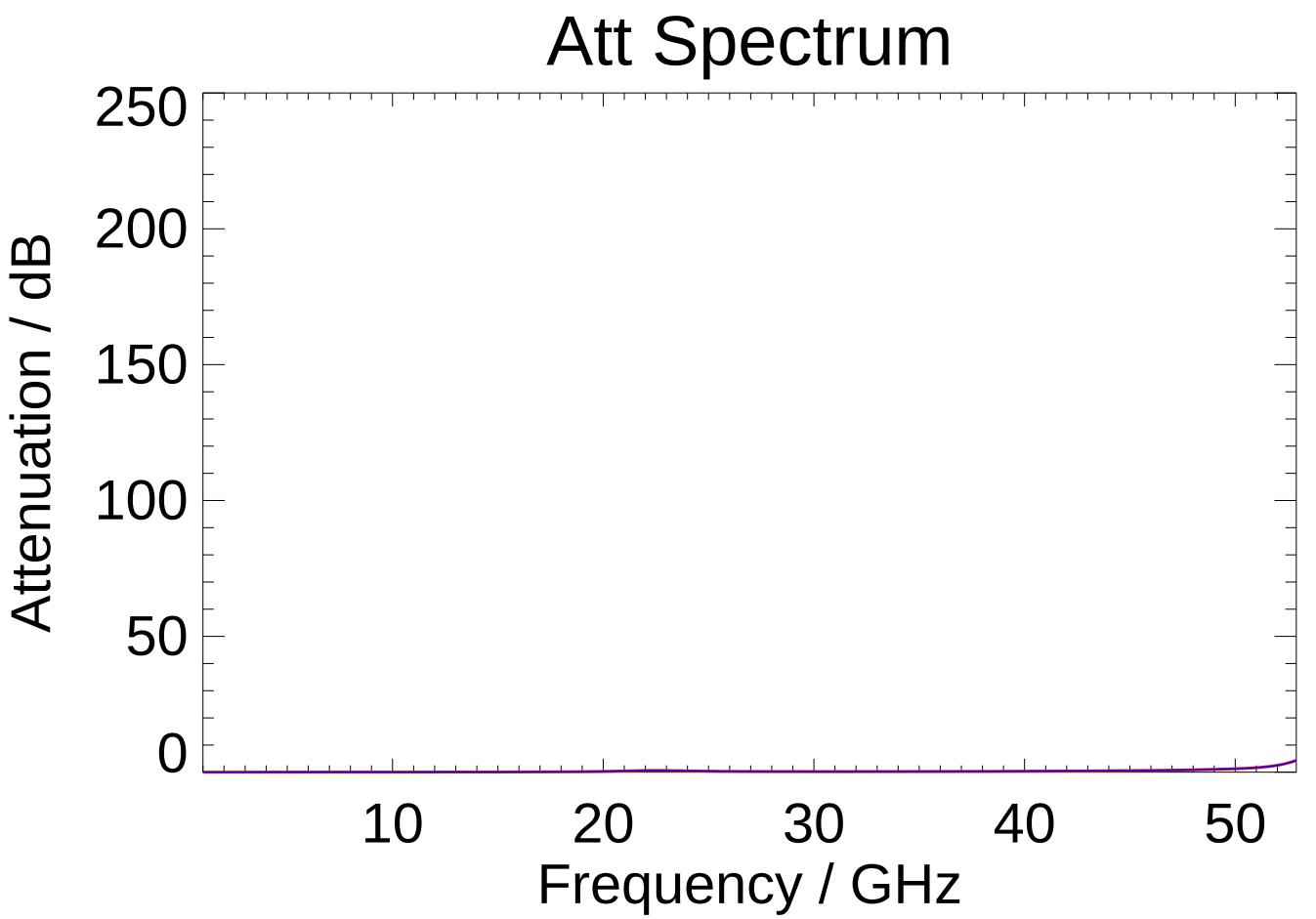
Frequency / GHz


Att Spectrum
Attenuation / dB
250
200
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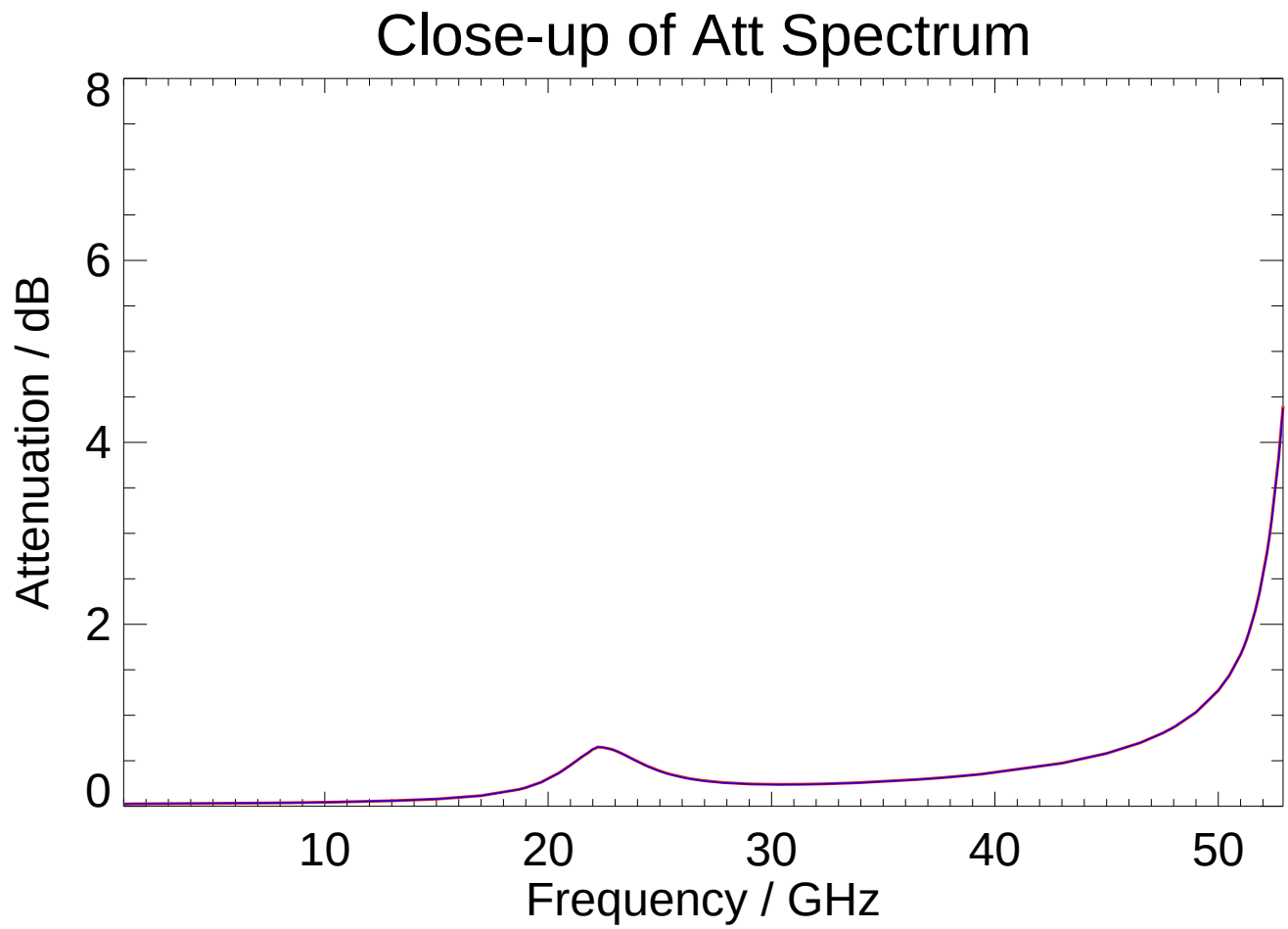
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
6
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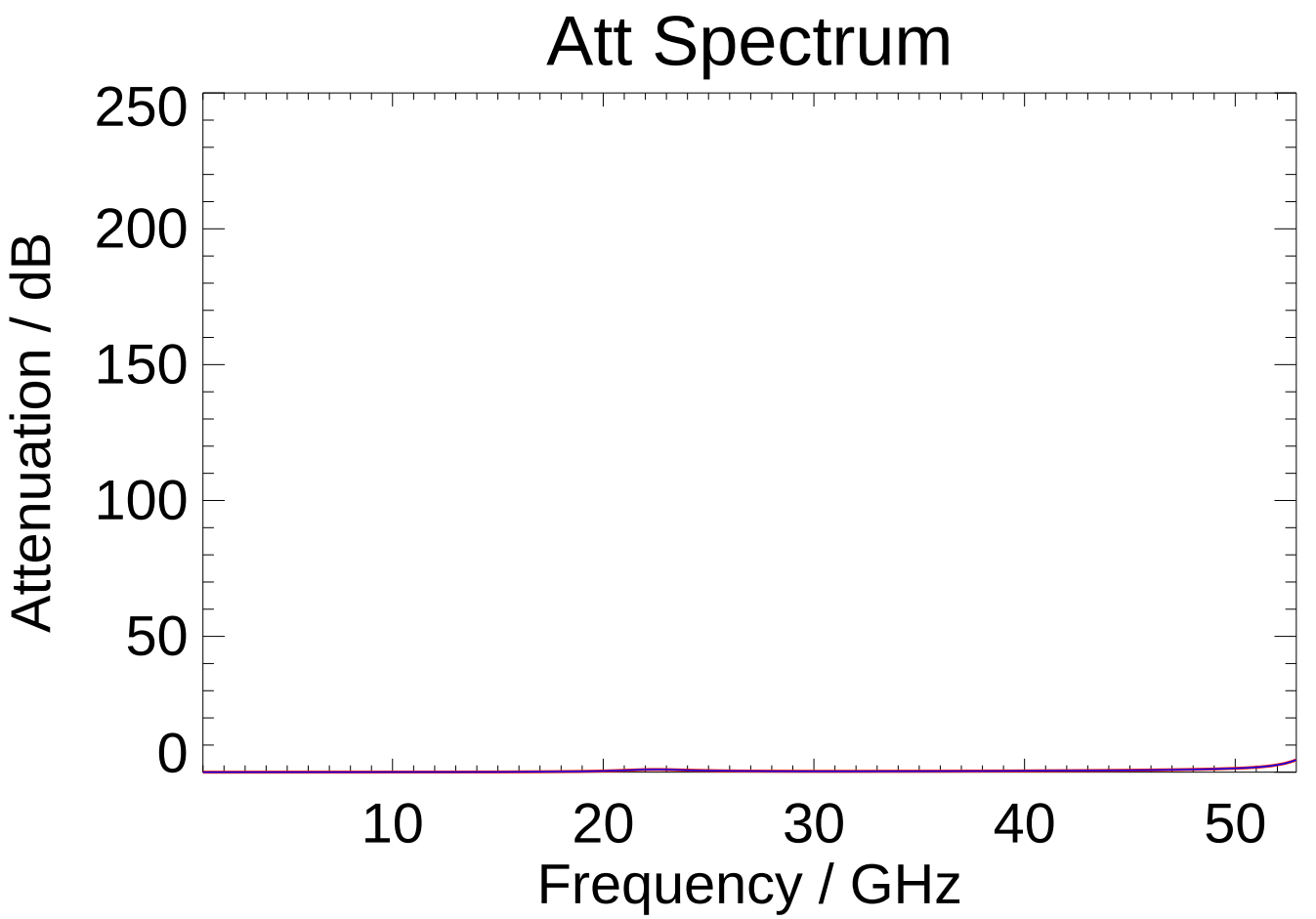
Frequency / GHz


Att Spectrum
Attenuation / dB
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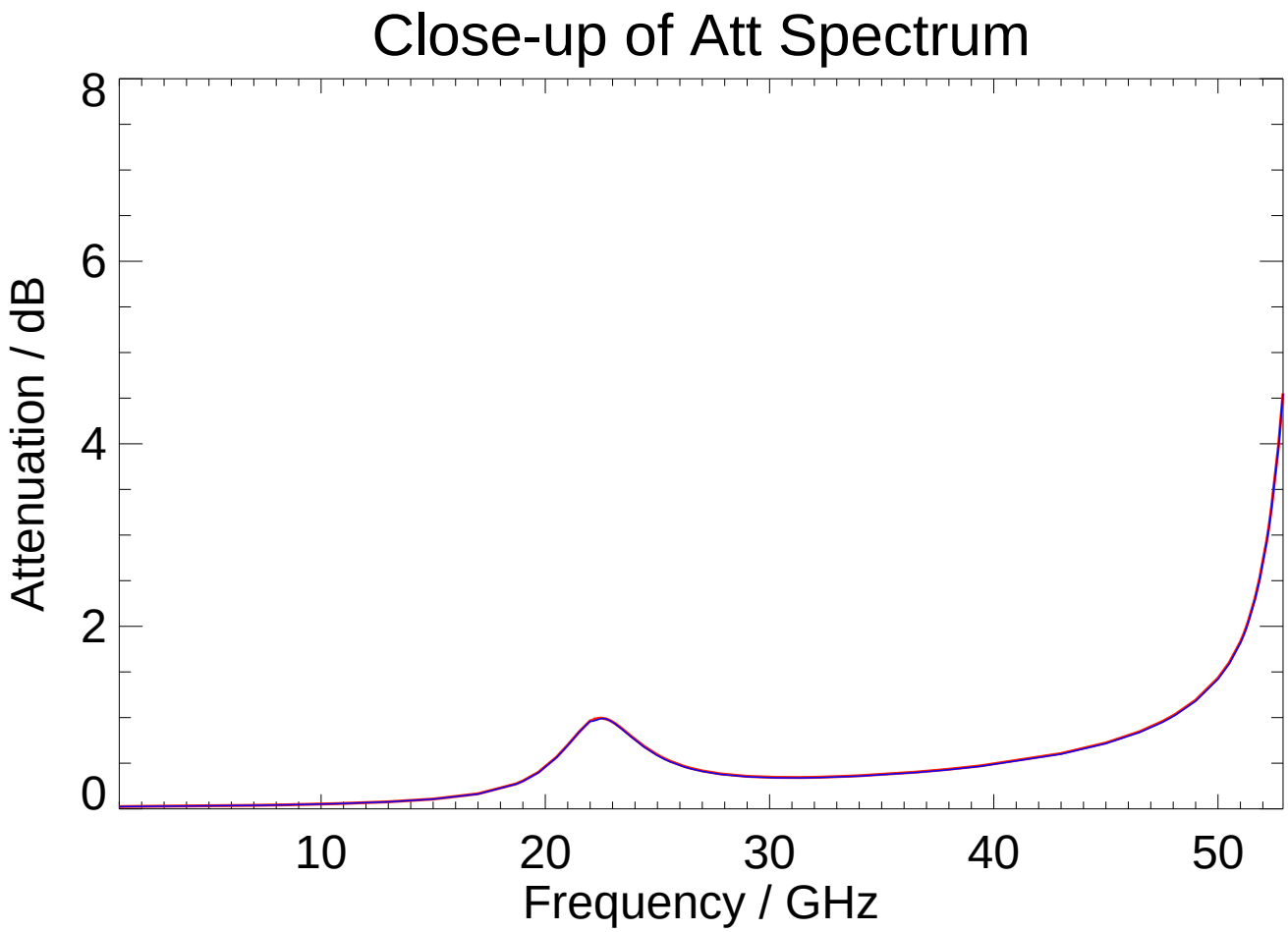
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
6
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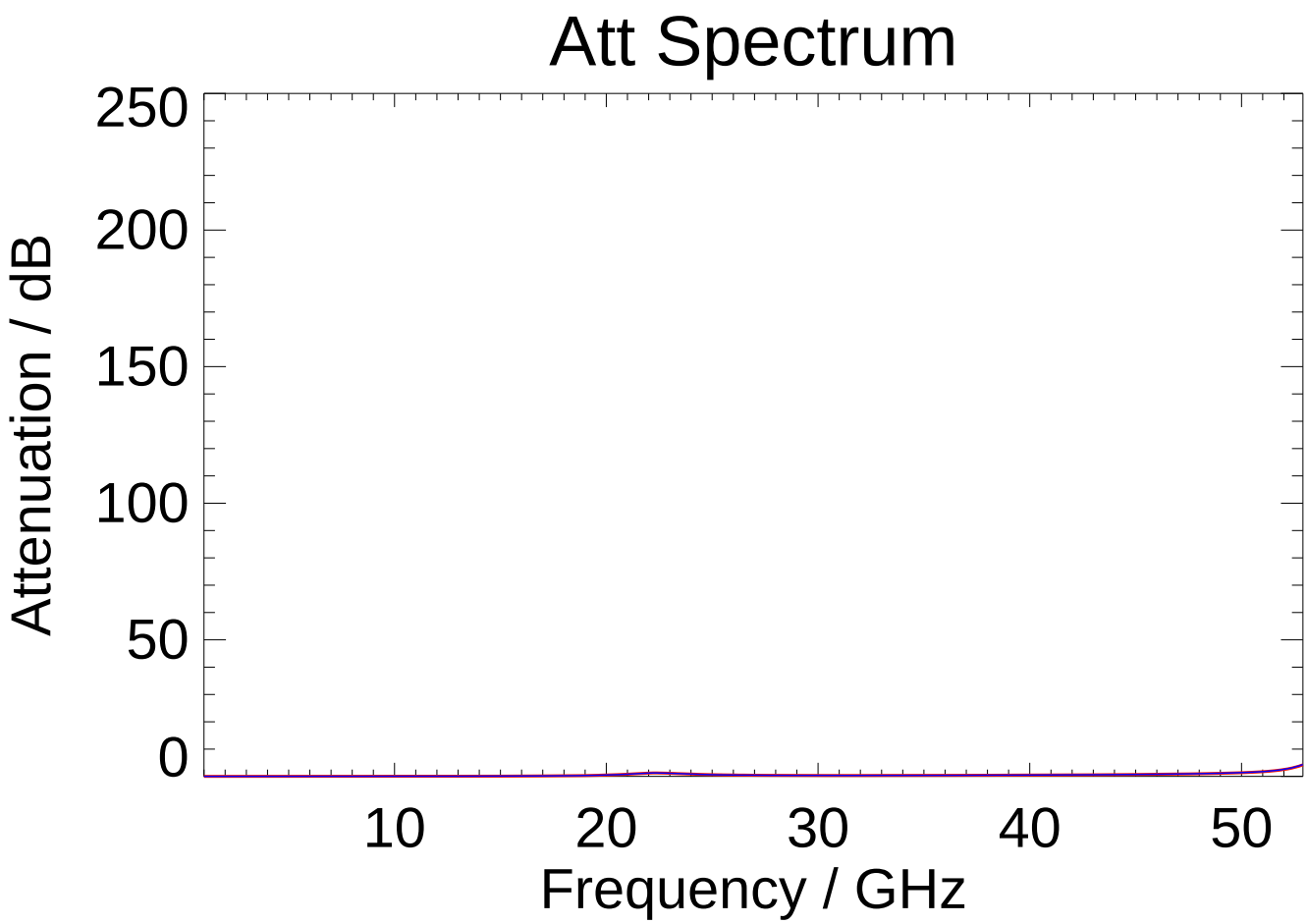
Frequency / GHz


Att Spectrum
Attenuation / dB
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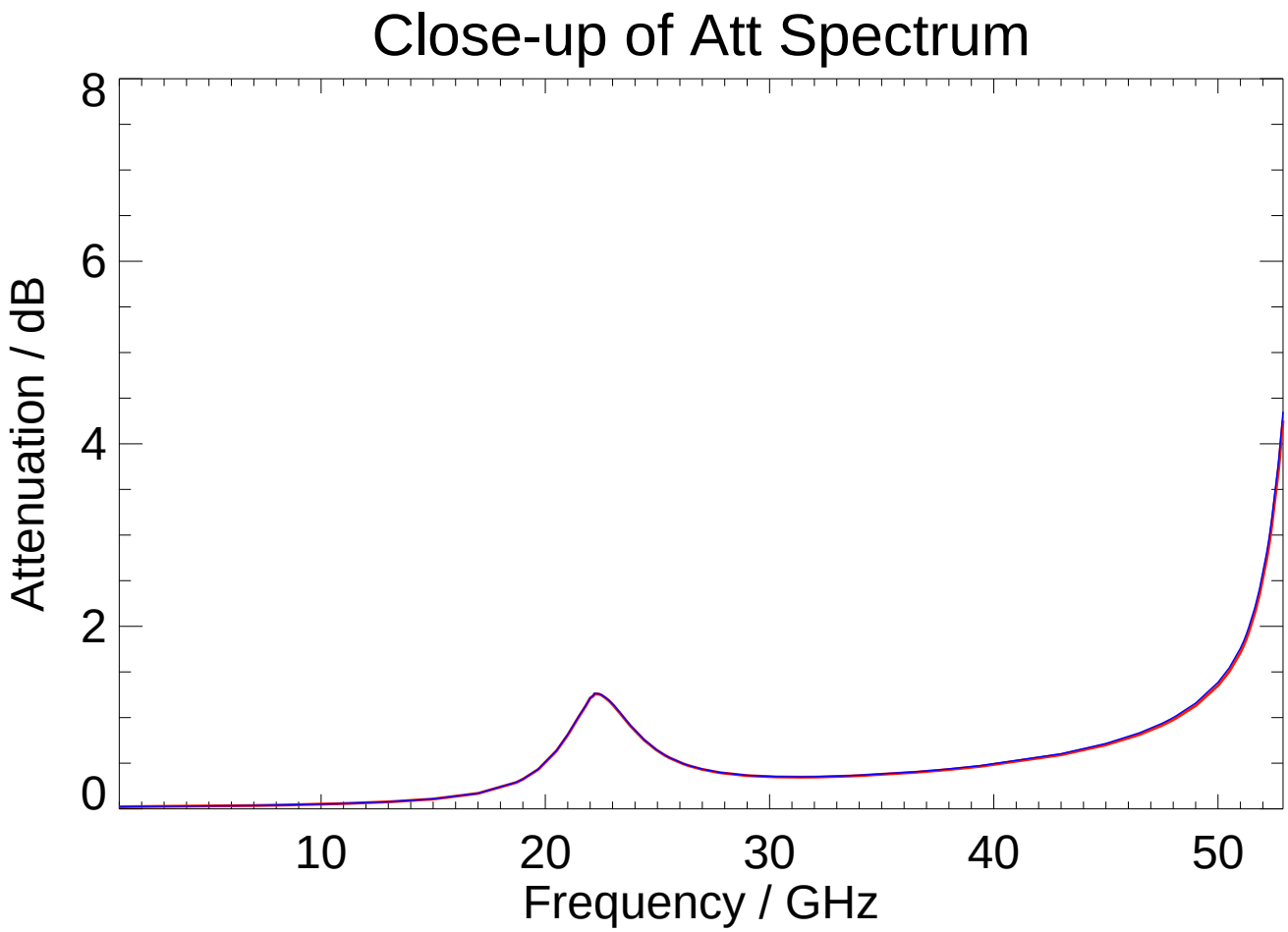
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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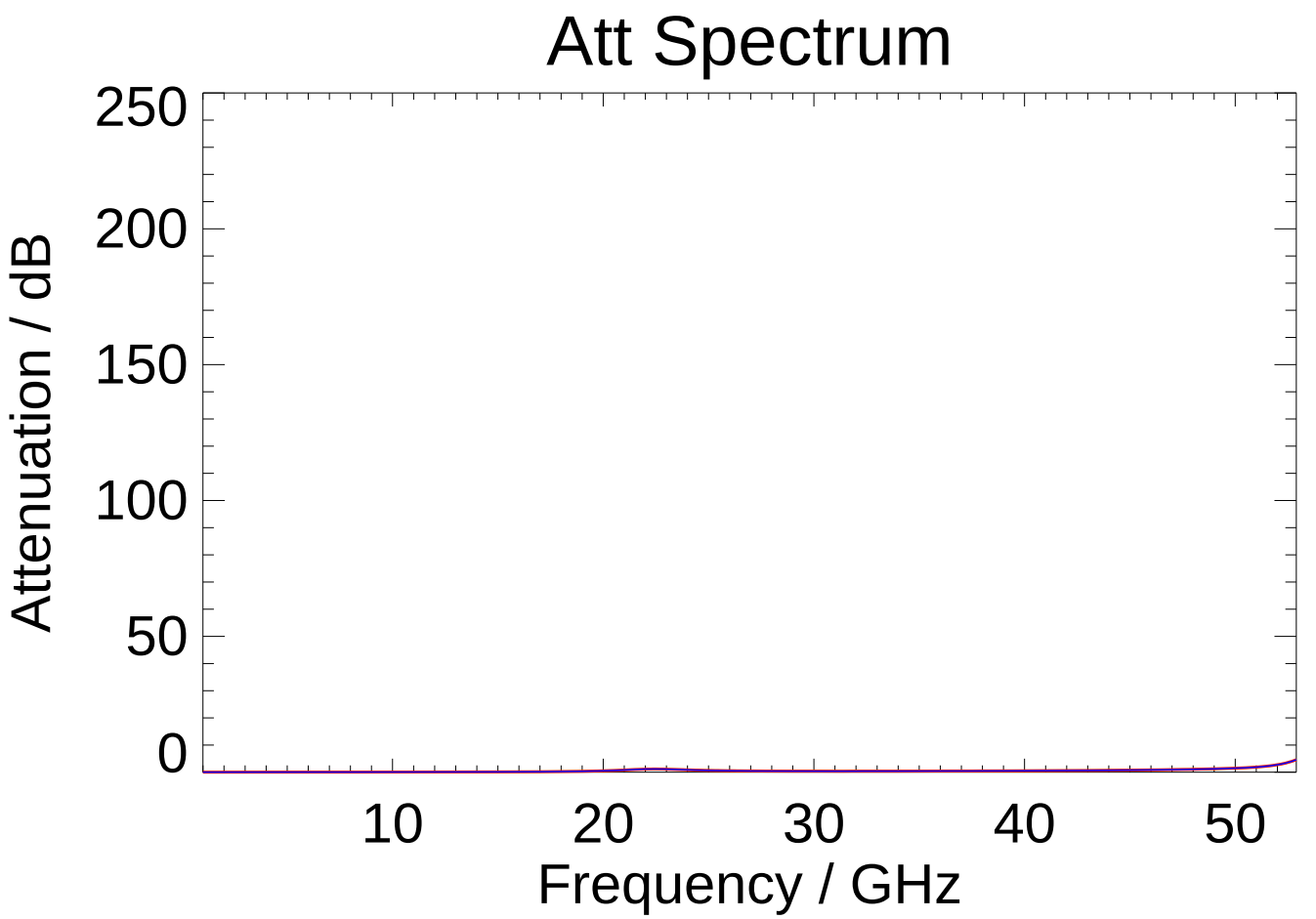
Frequency / GHz


Att Spectrum
Attenuation / dB
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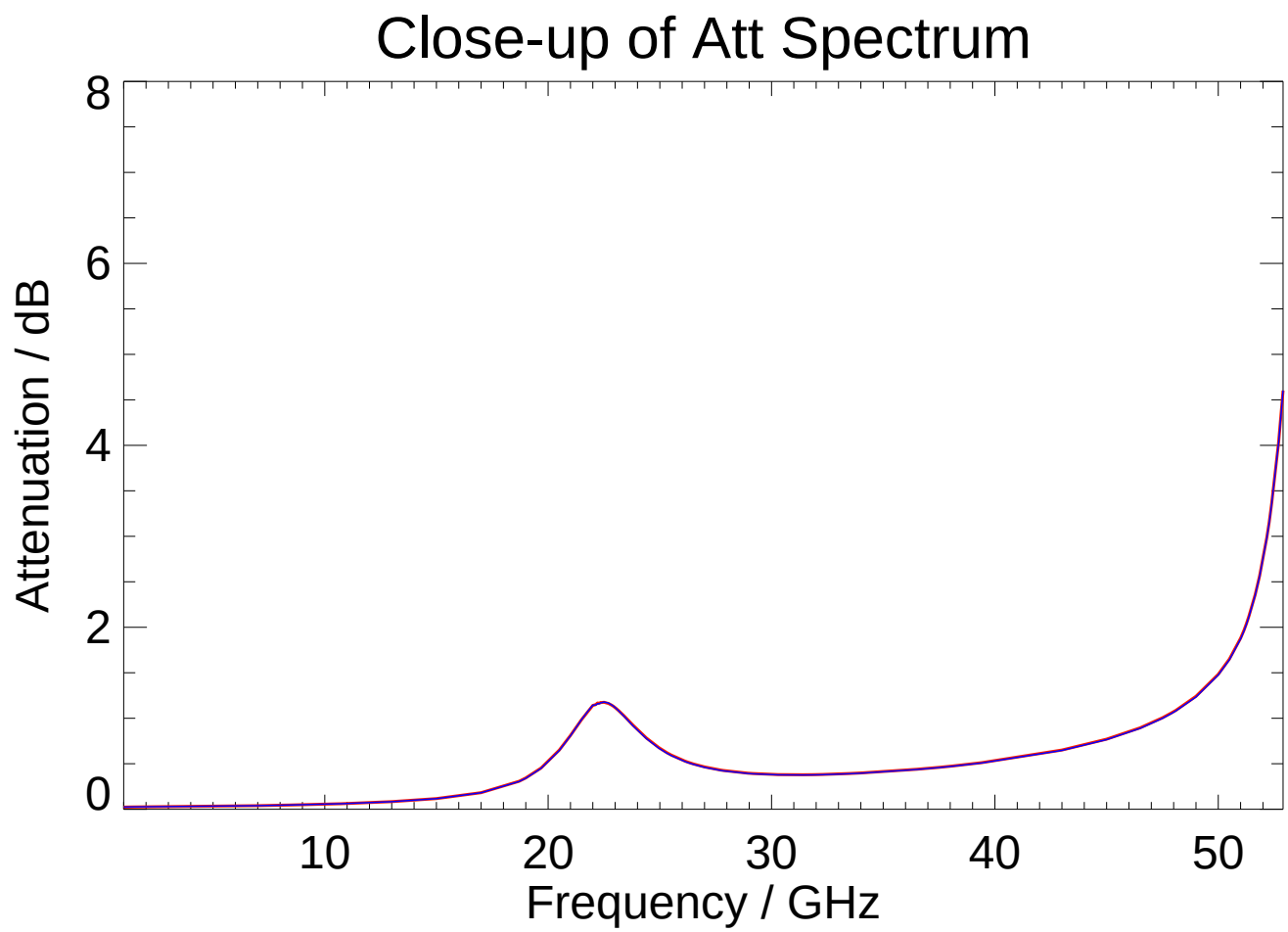
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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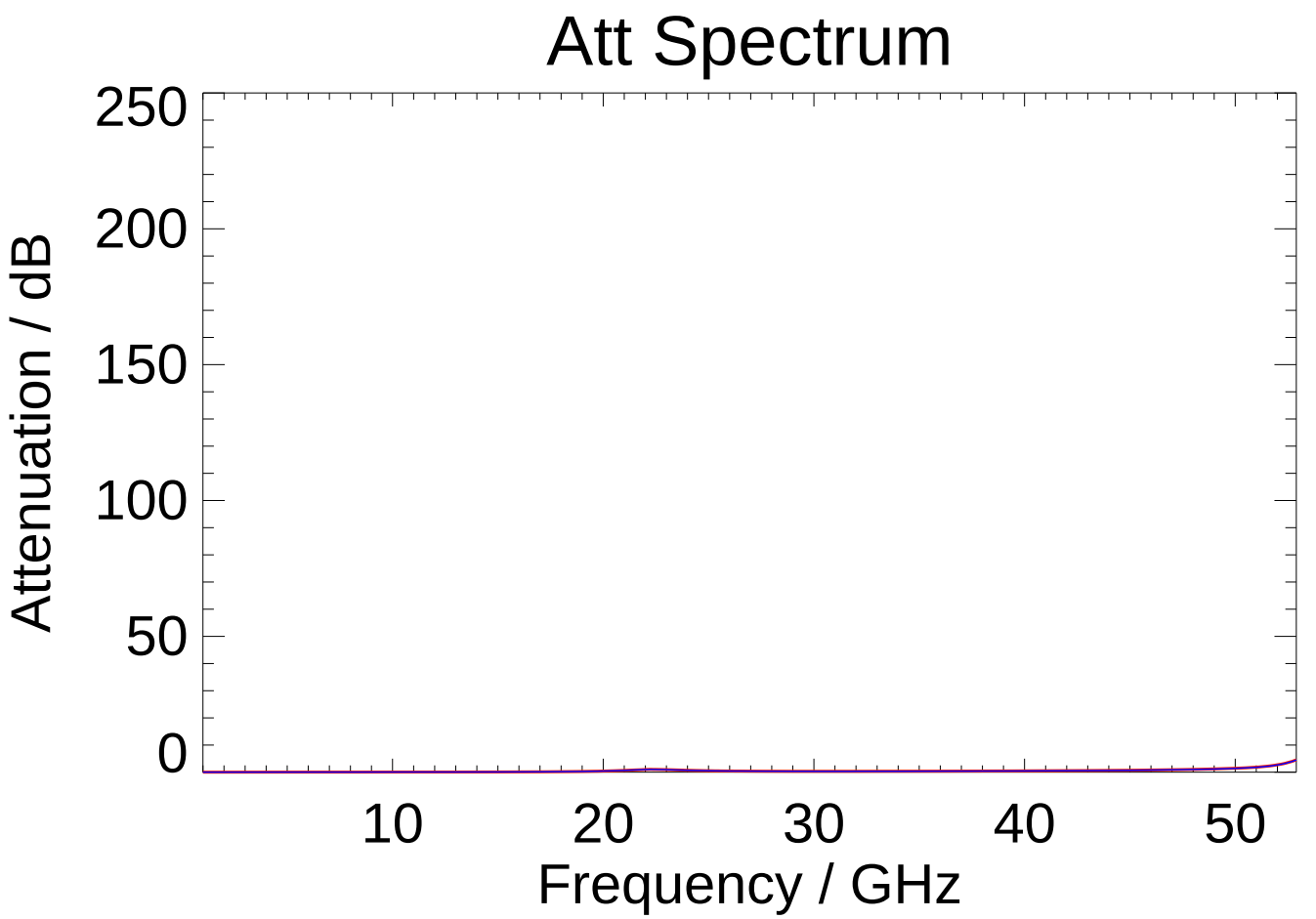
Frequency / GHz


Att Spectrum
Attenuation / dB
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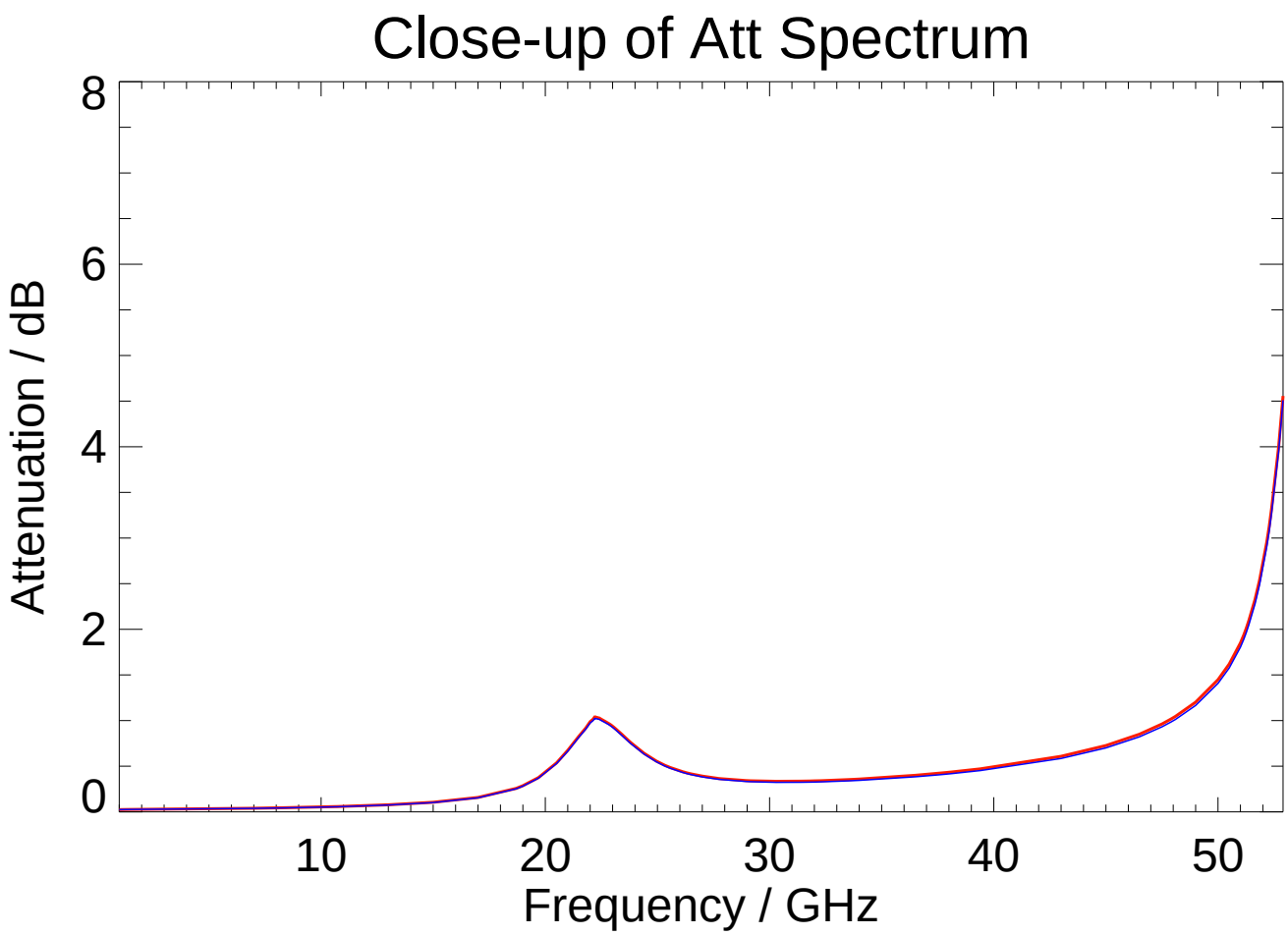
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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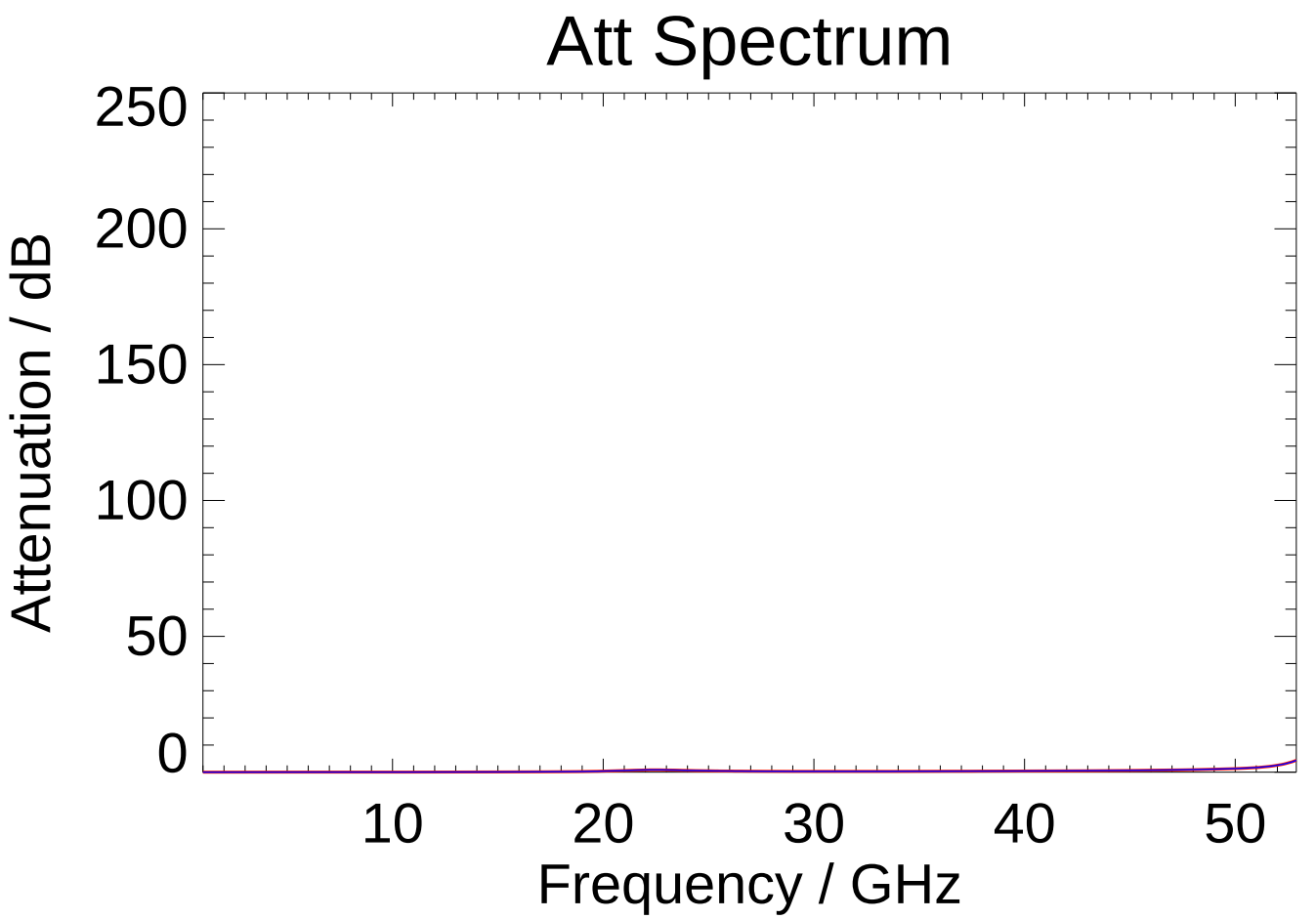
Frequency / GHz


Att Spectrum
Attenuation / dB
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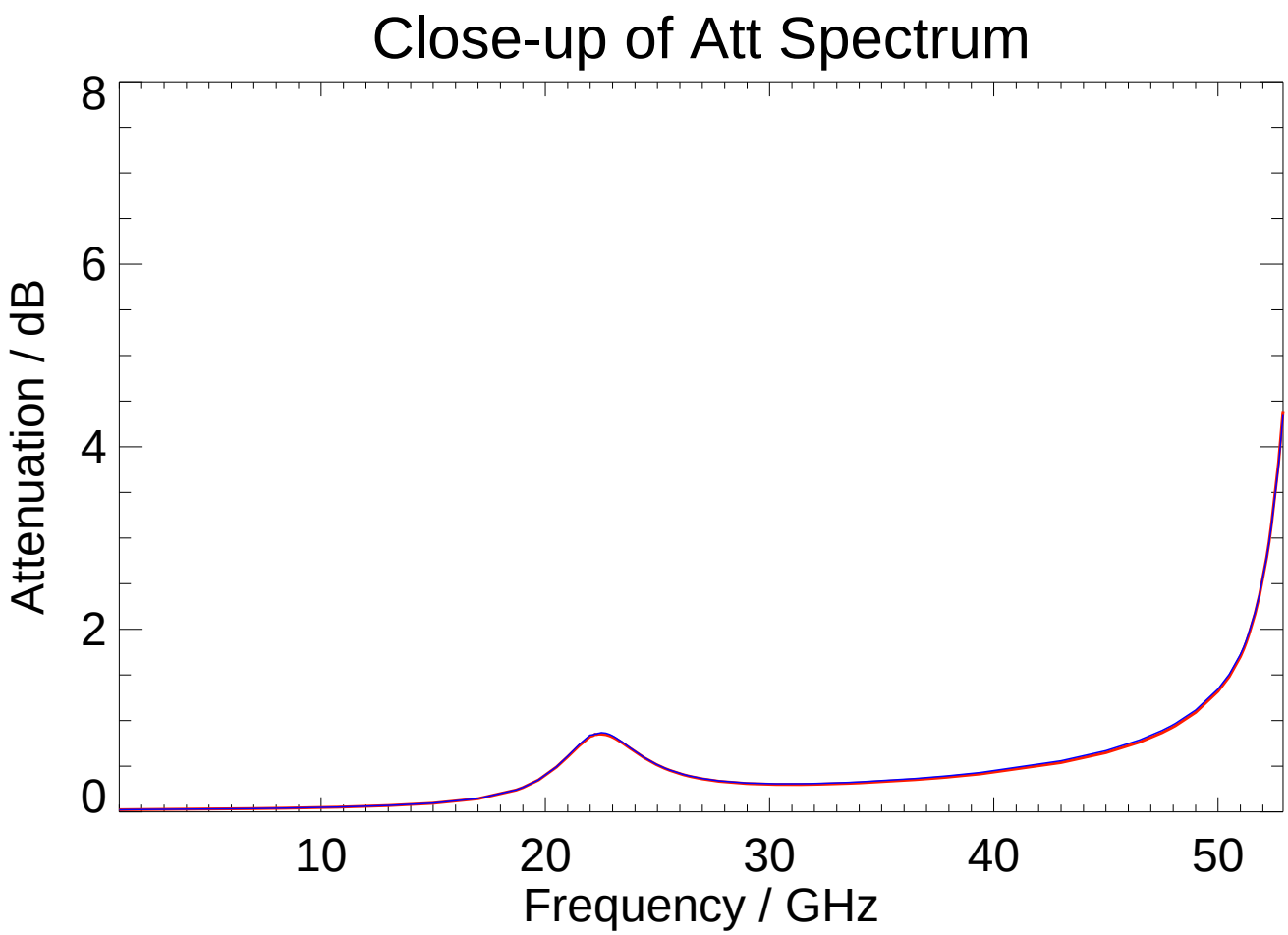
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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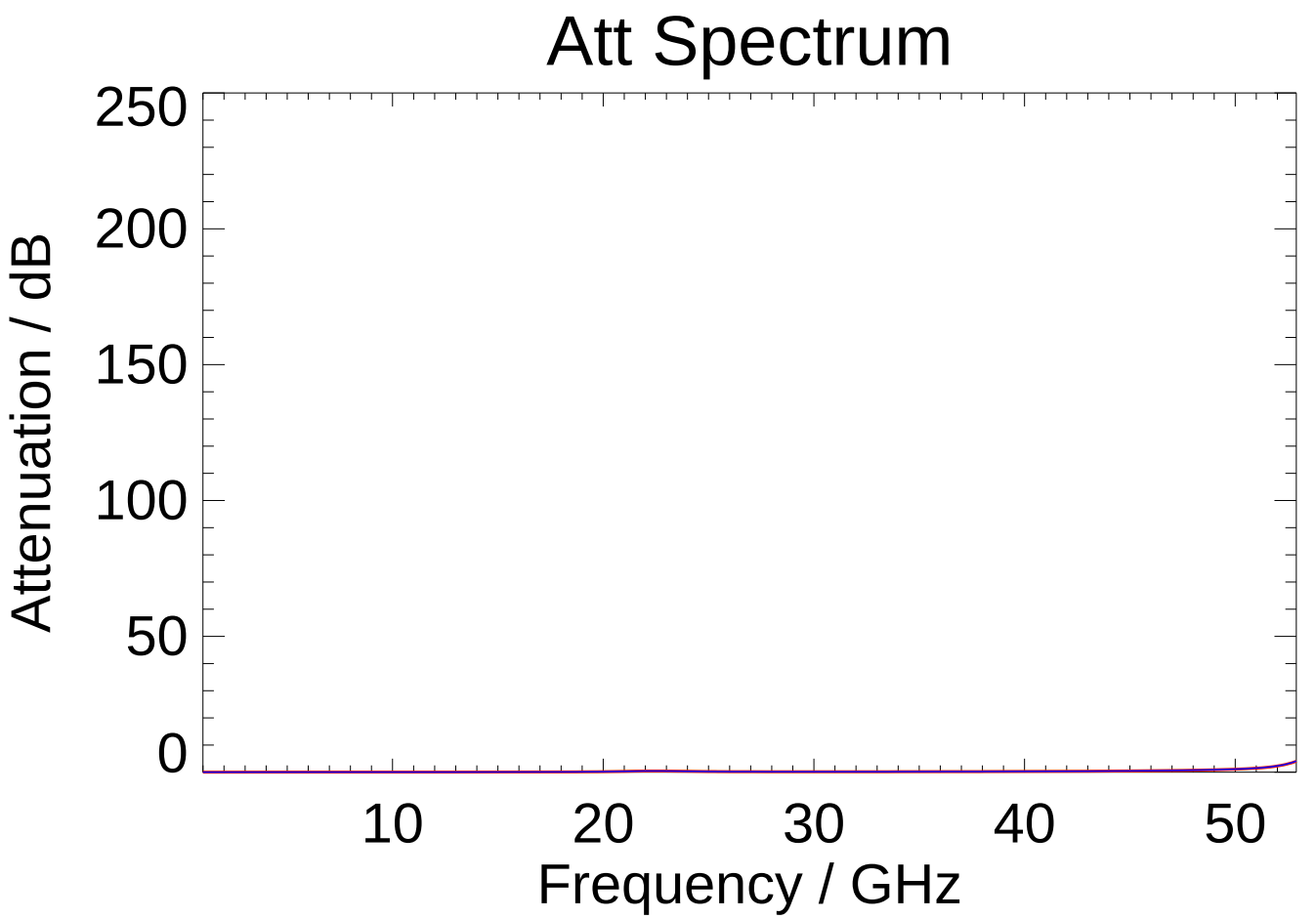
Frequency / GHz


Att Spectrum
Attenuation / dB
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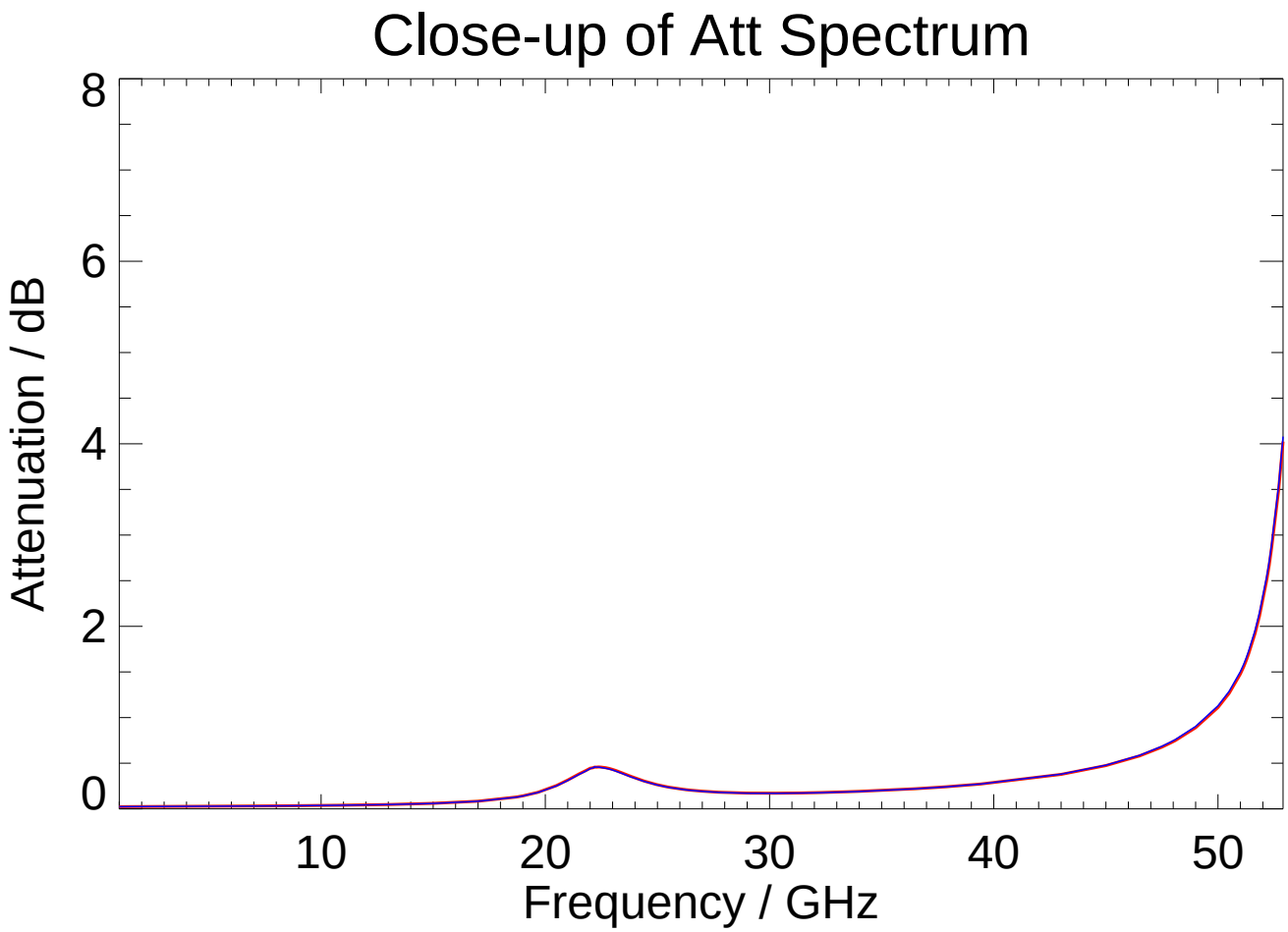
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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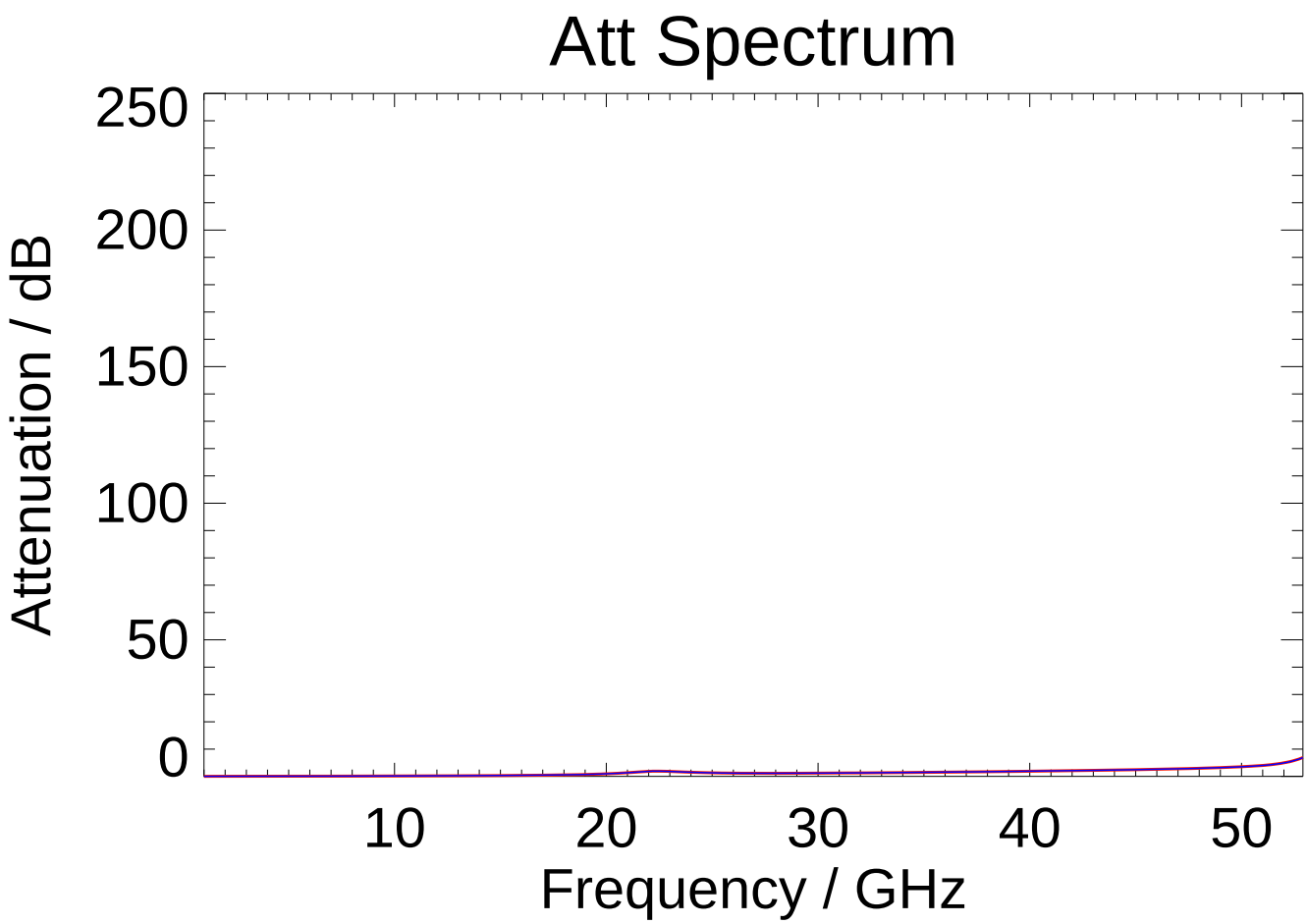
Frequency / GHz


Att Spectrum
Attenuation / dB
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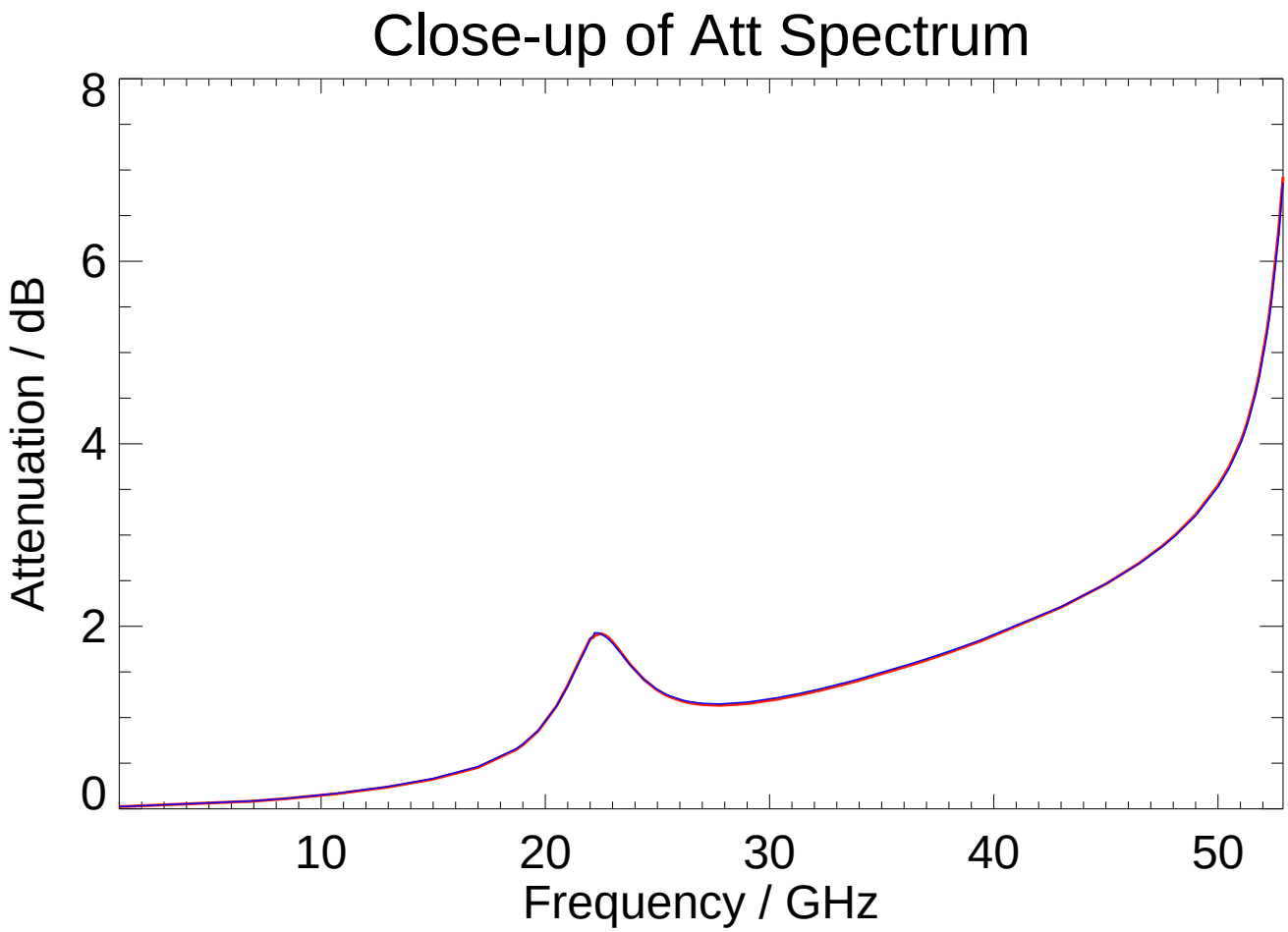
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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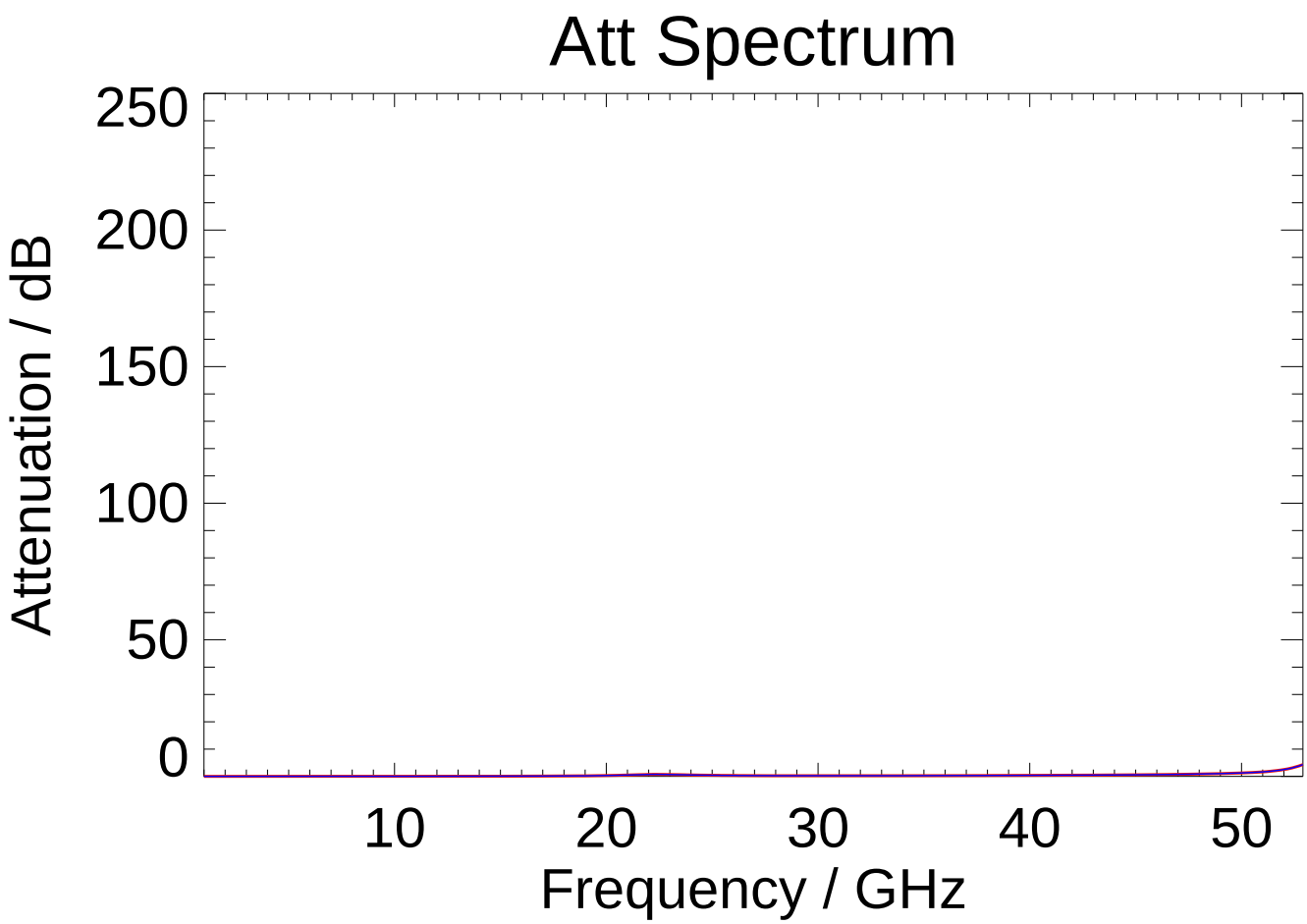
Frequency / GHz


Att Spectrum
Attenuation / dB
250
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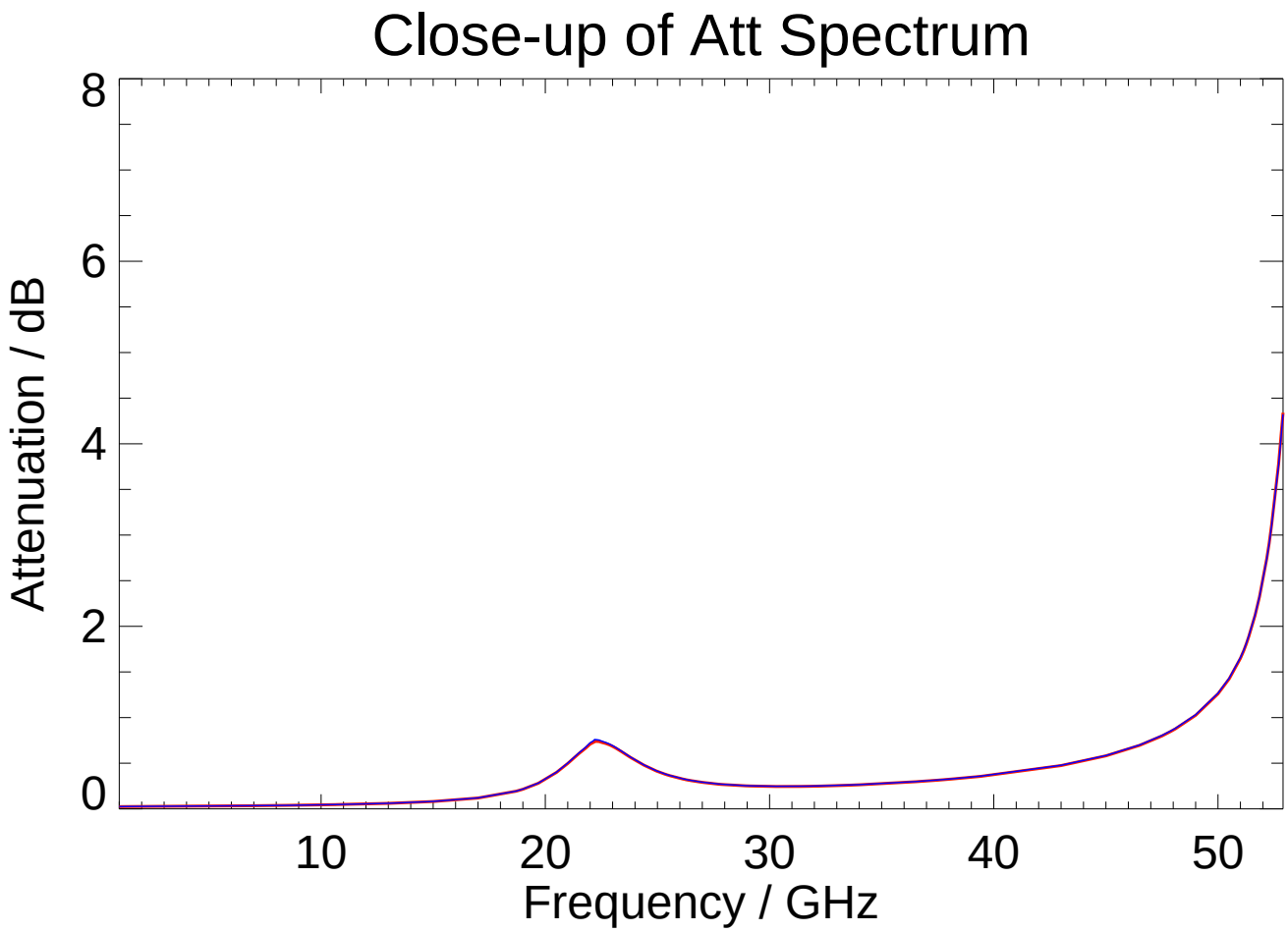
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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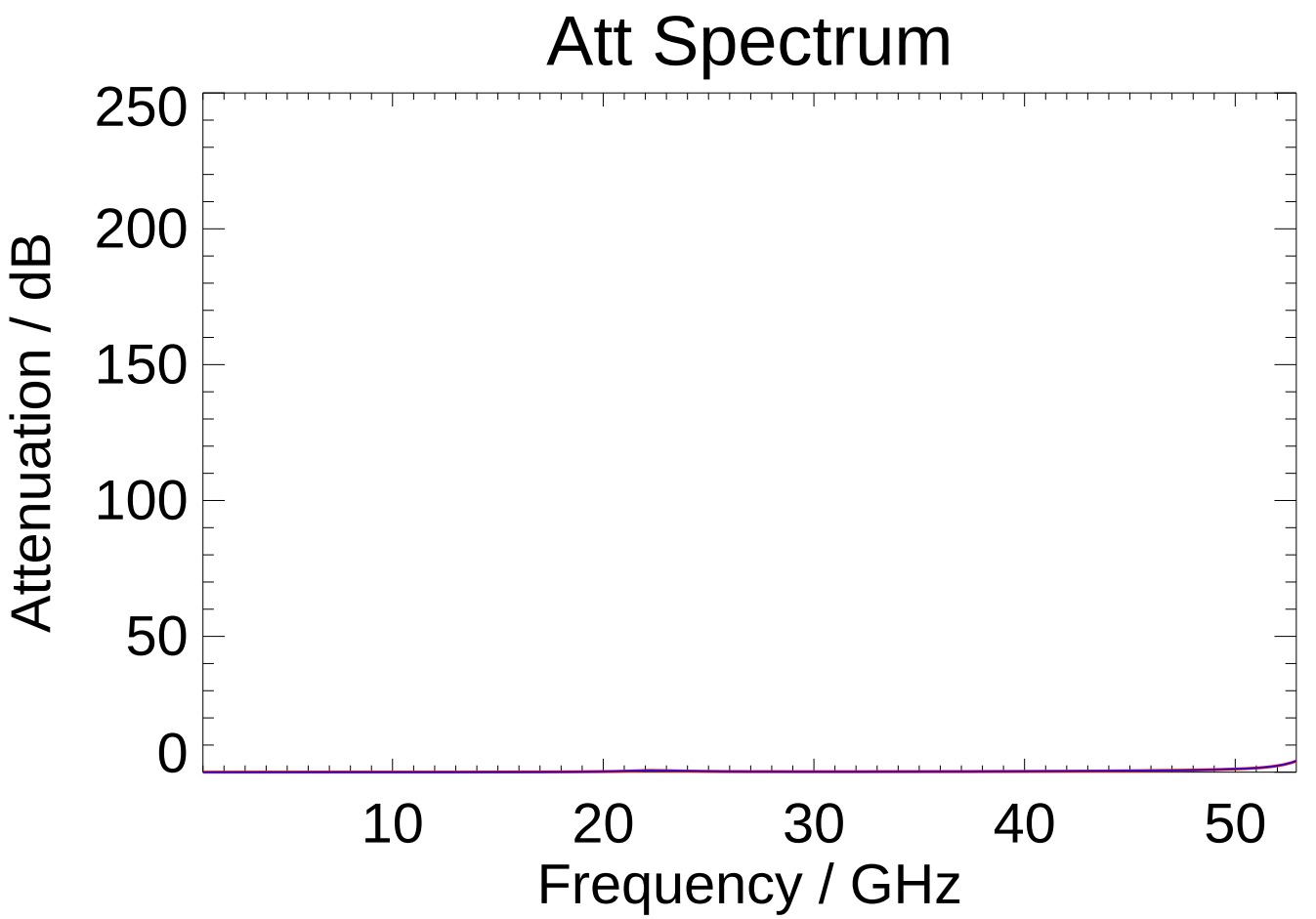
Frequency / GHz


Att Spectrum
Attenuation / dB
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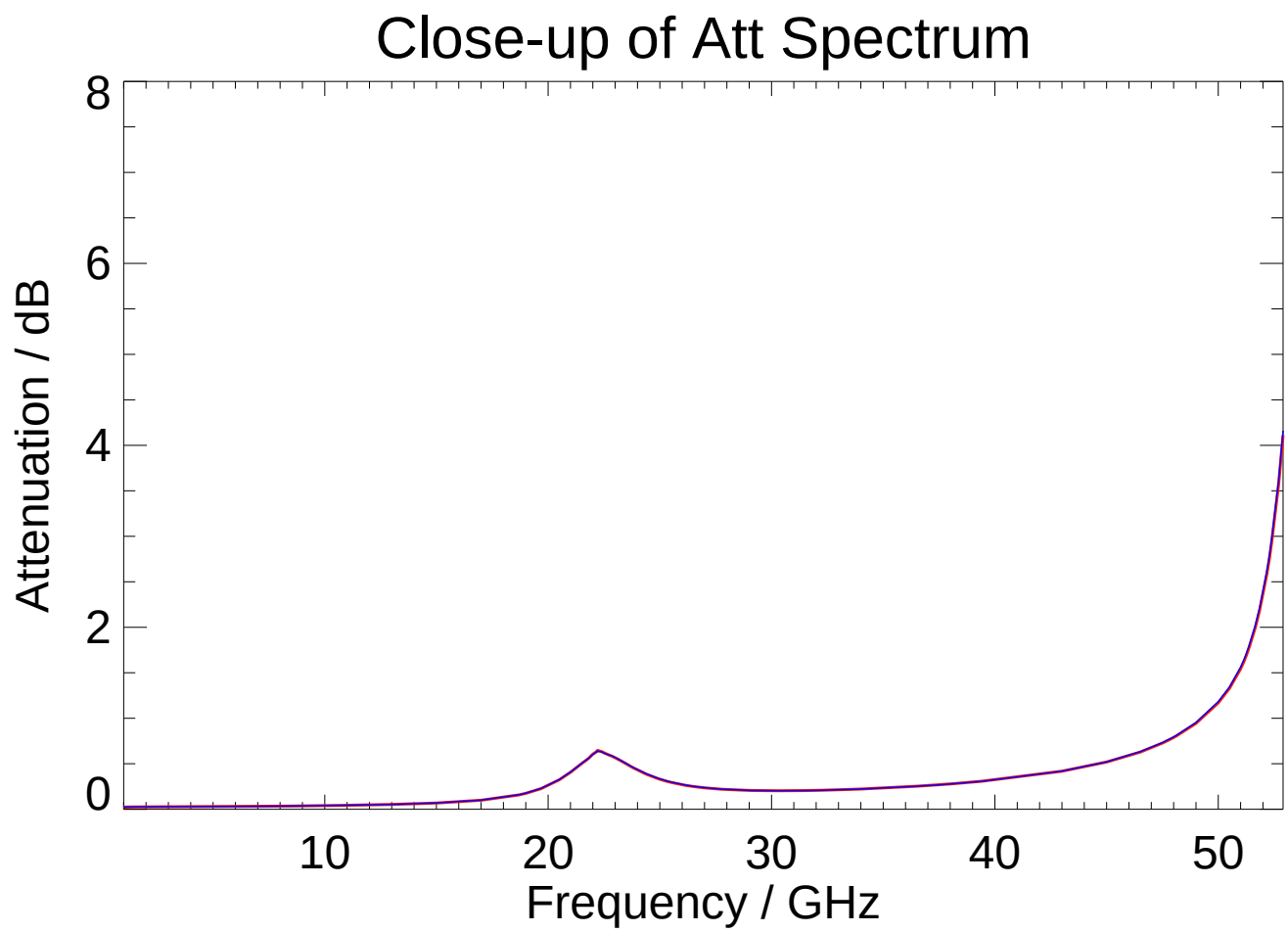
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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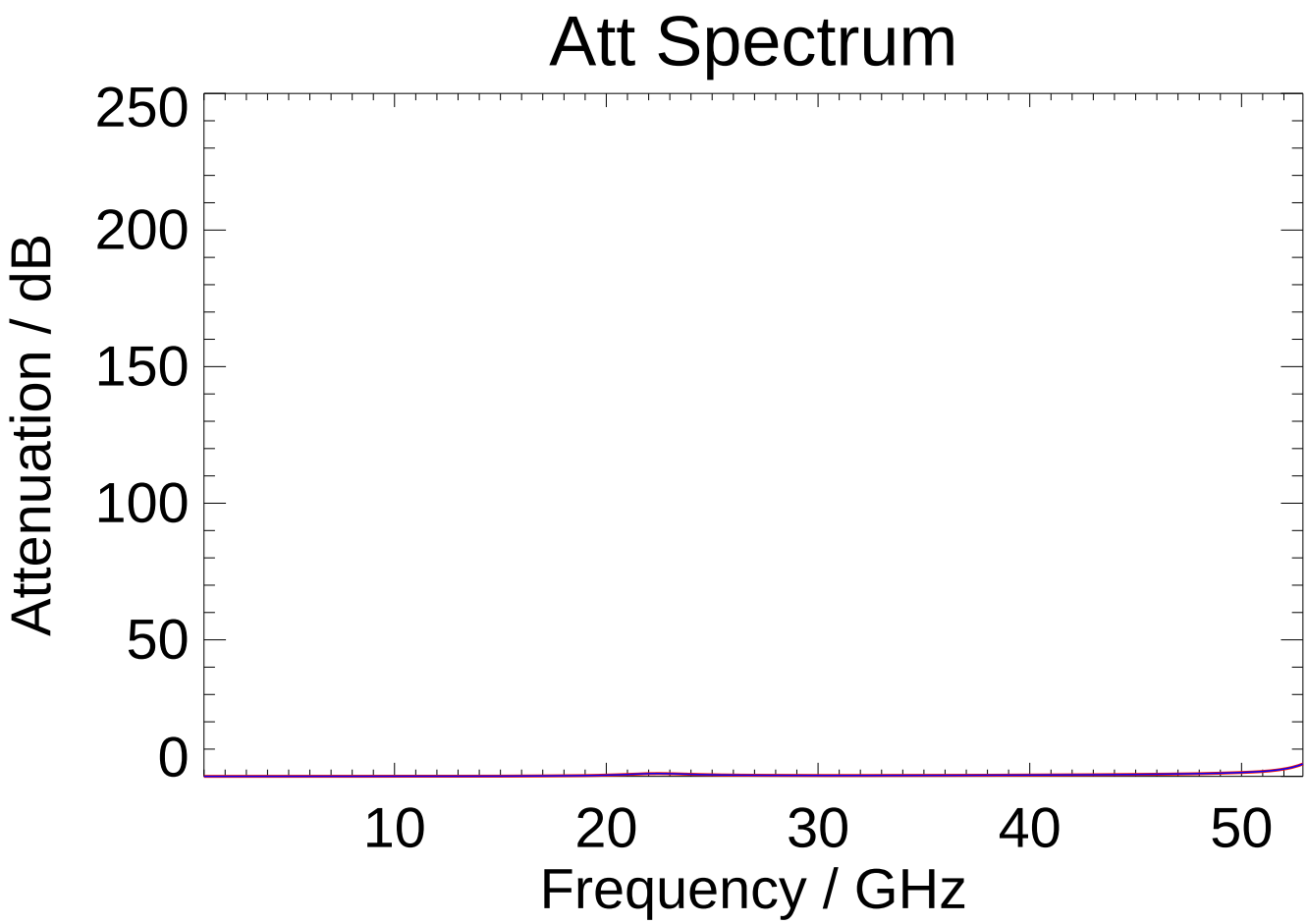
Frequency / GHz


Att Spectrum
Attenuation / dB
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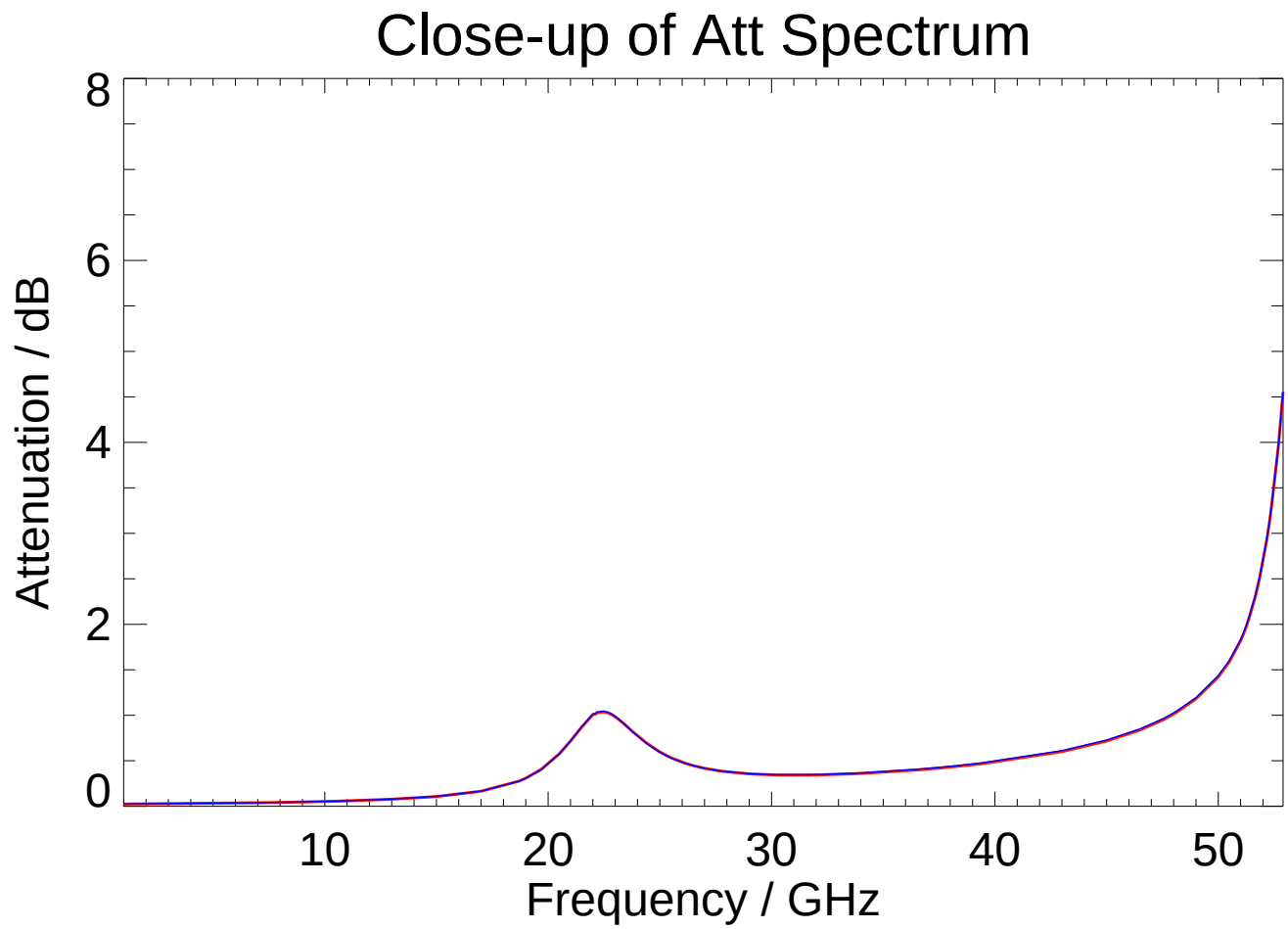
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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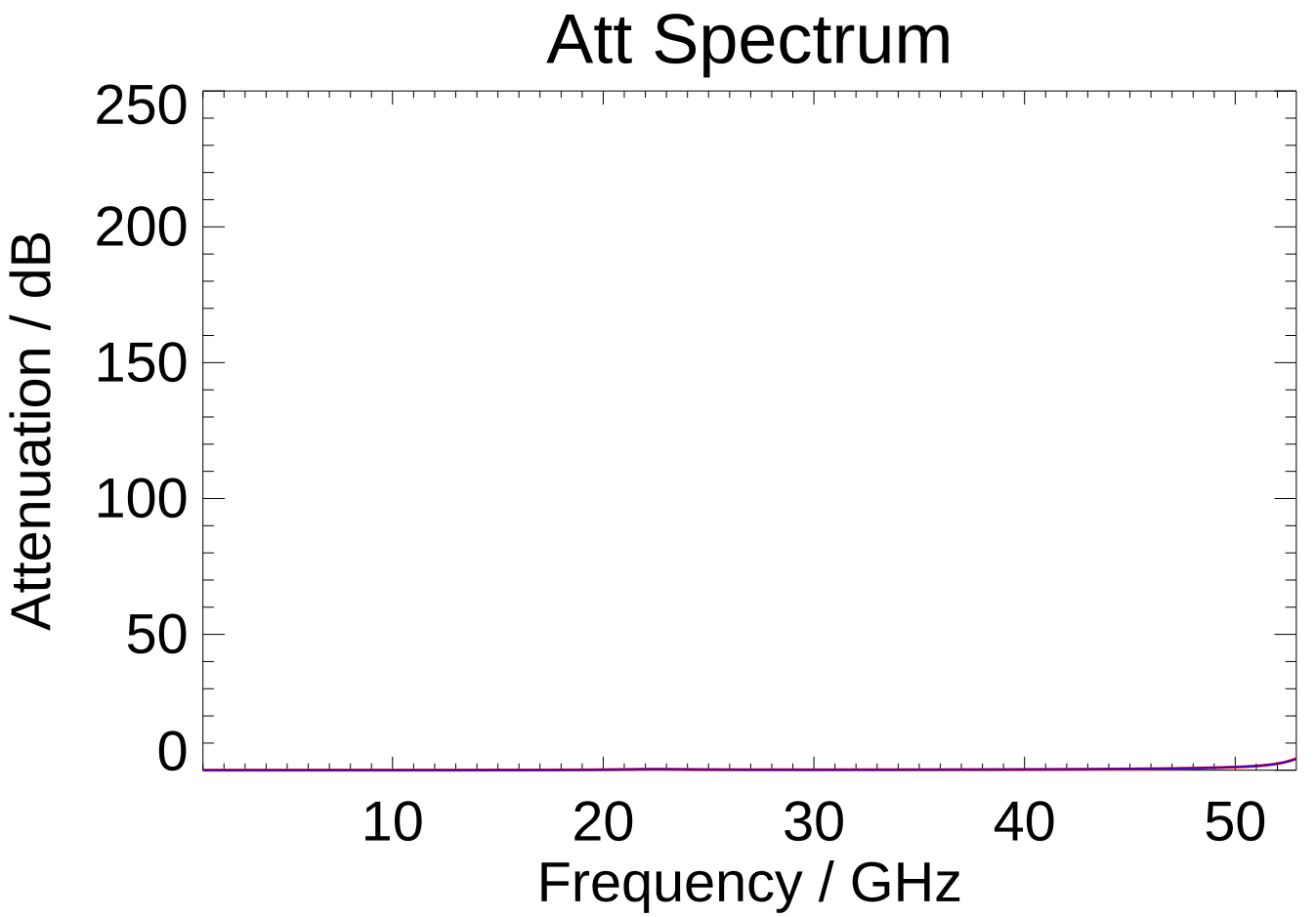
Frequency / GHz


Att Spectrum
Attenuation / dB
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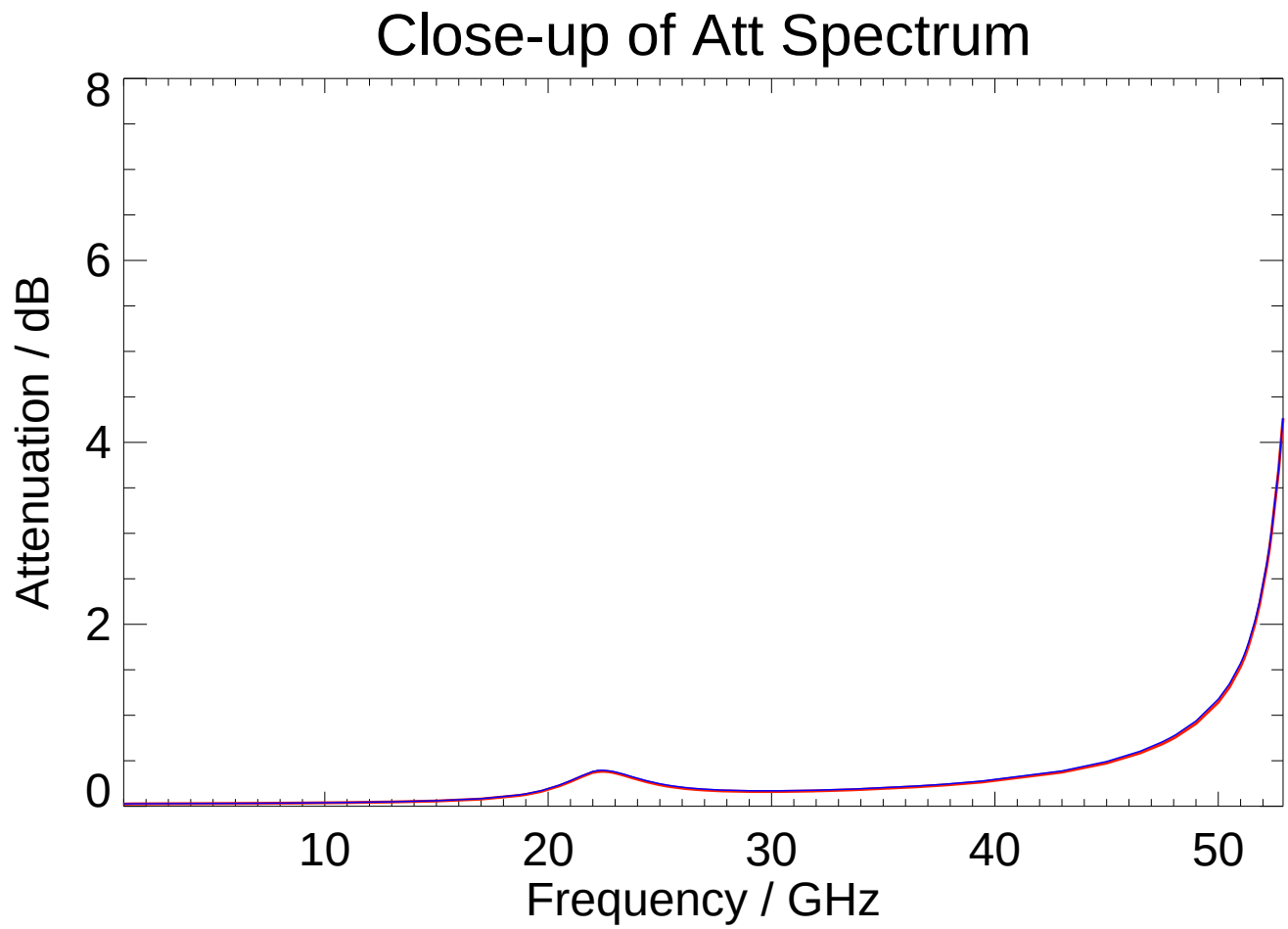
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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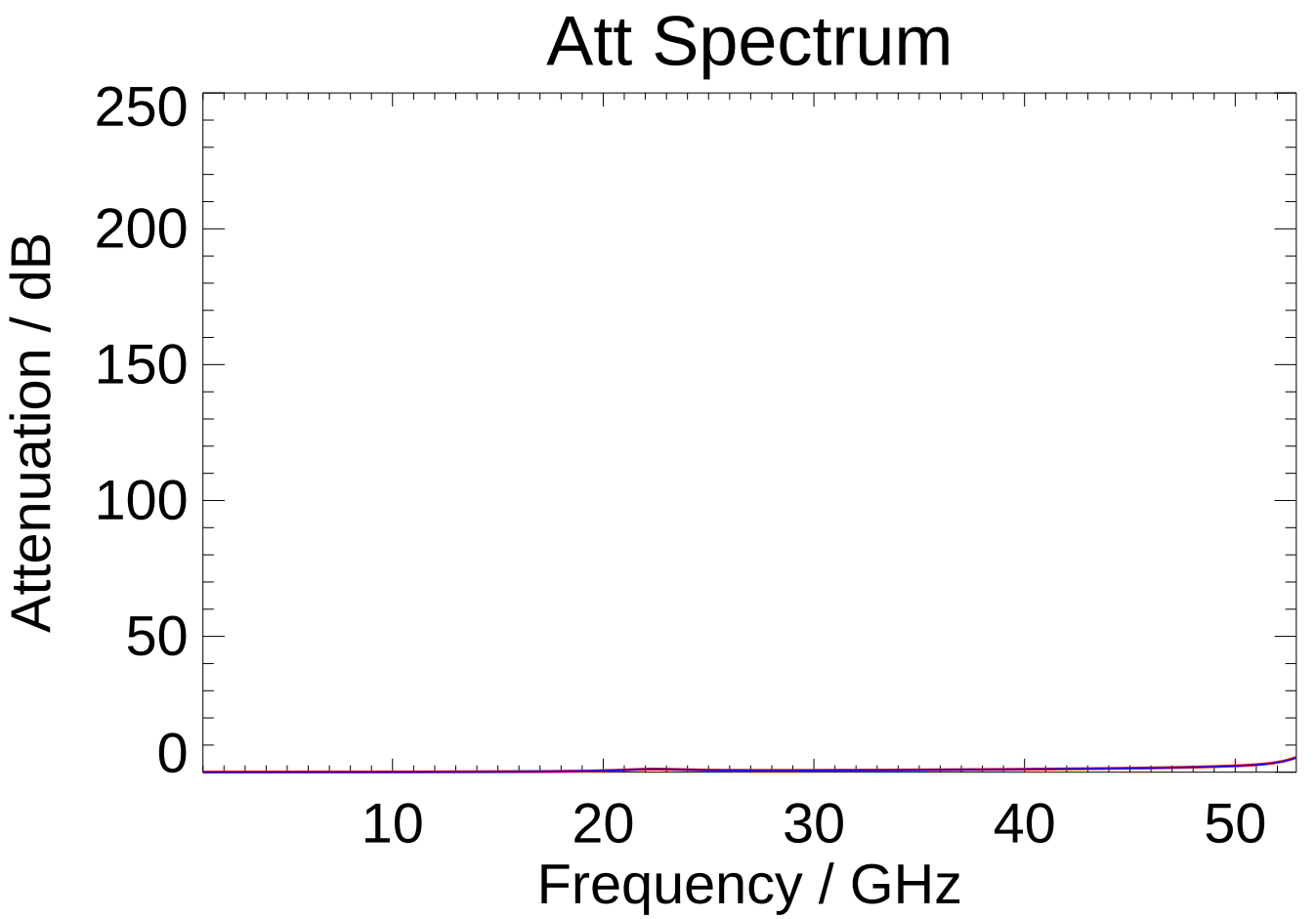
Frequency / GHz


Att Spectrum
Attenuation / dB
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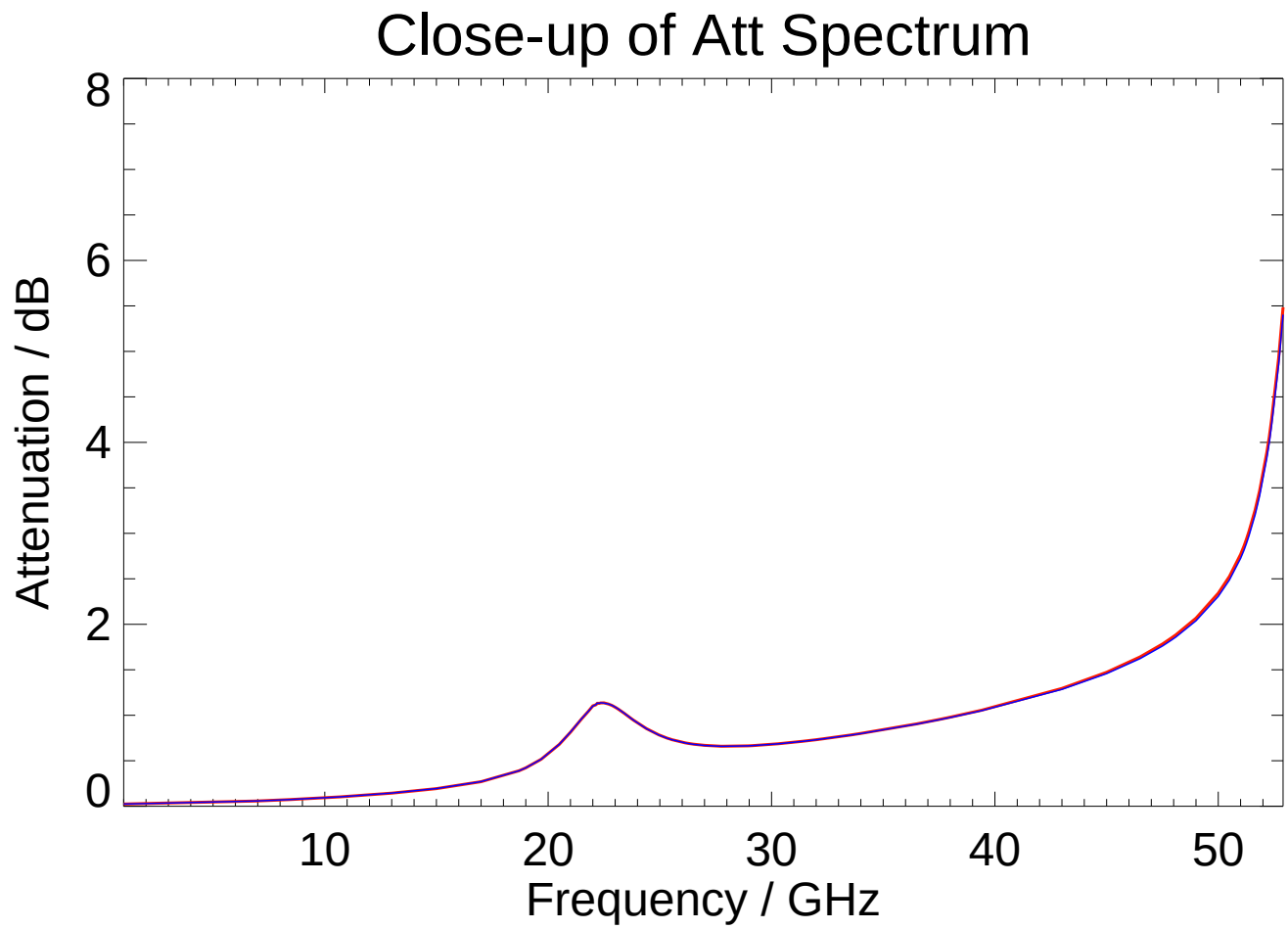
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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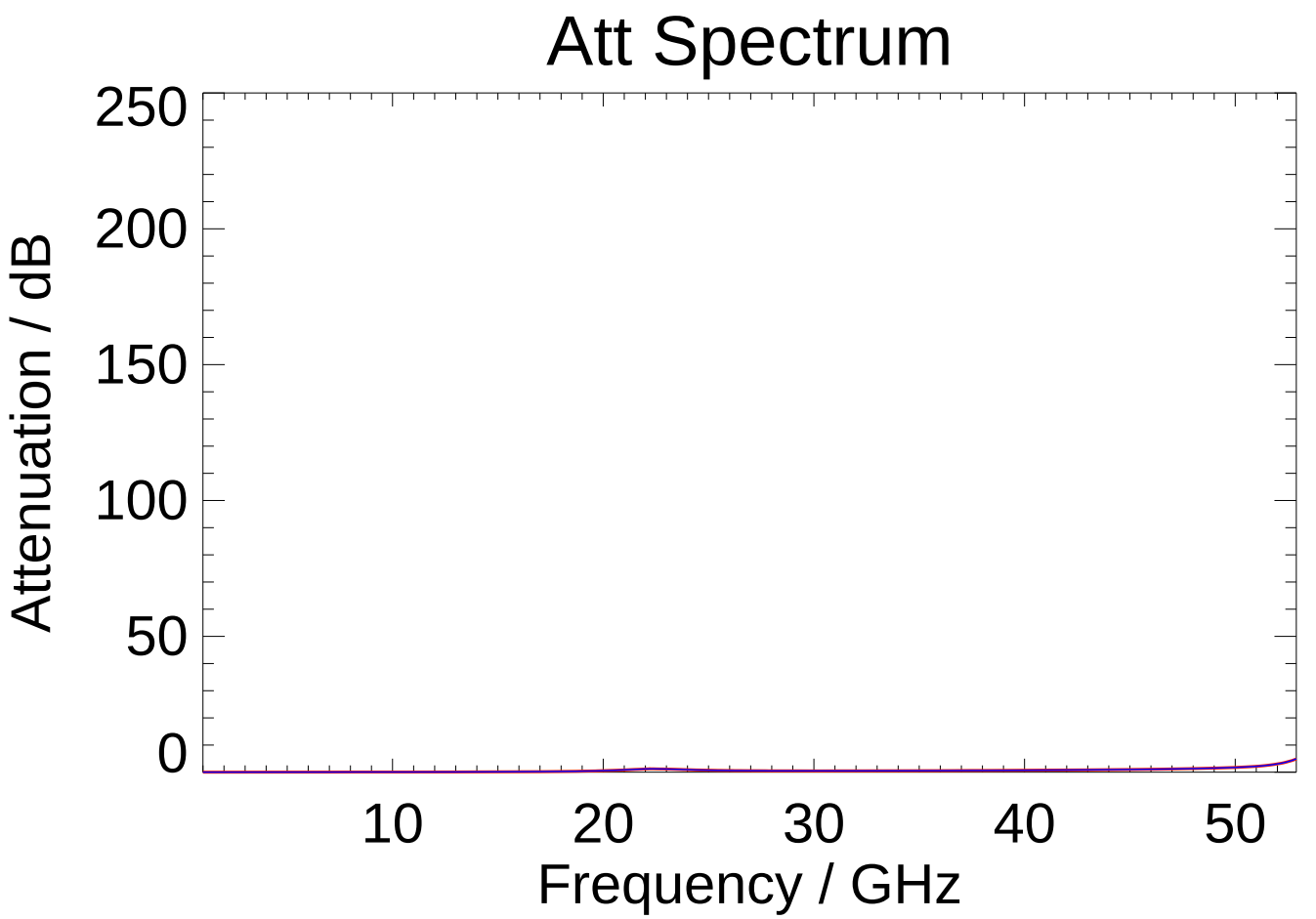
Frequency / GHz


Att Spectrum
Attenuation / dB
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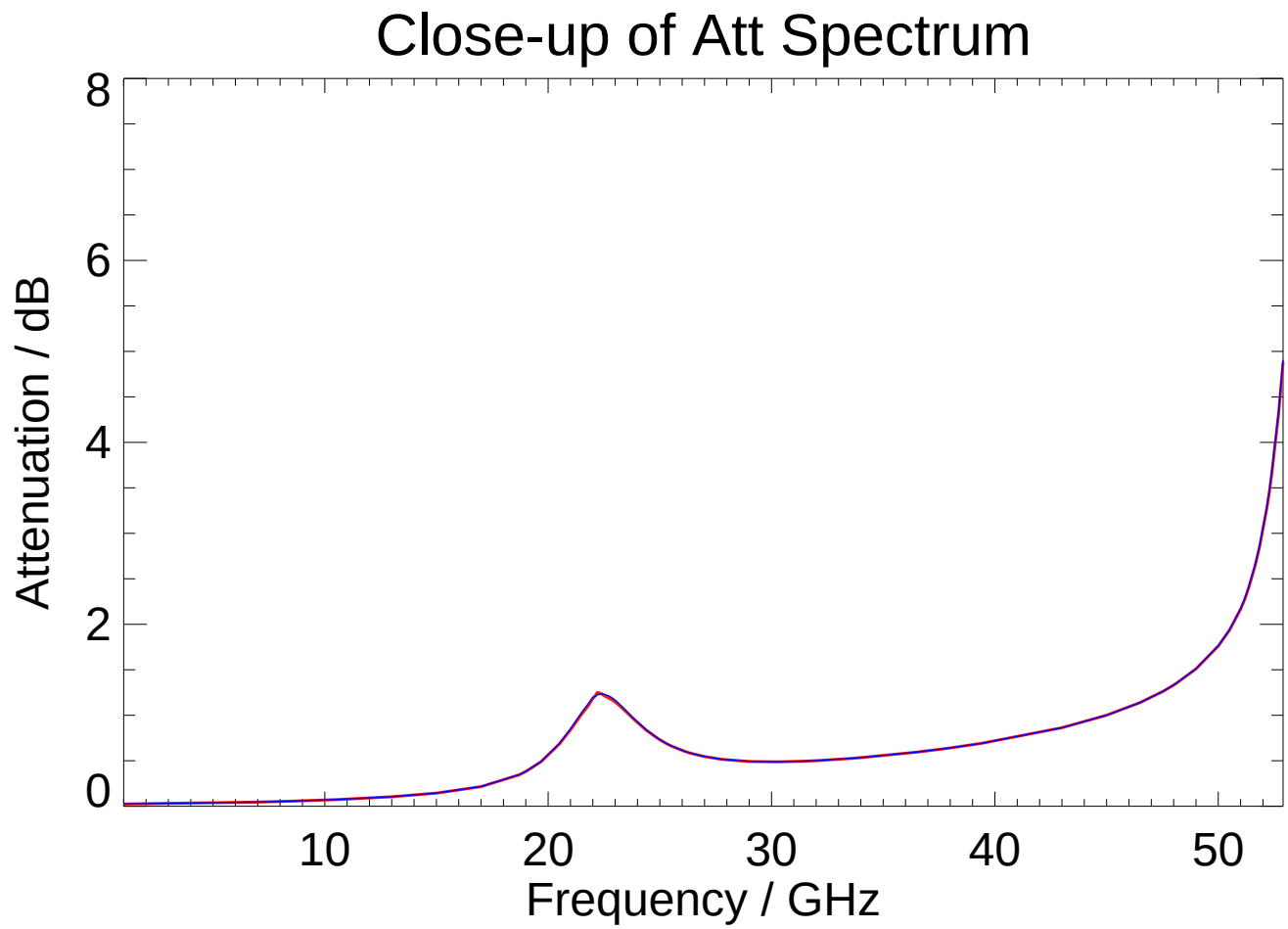
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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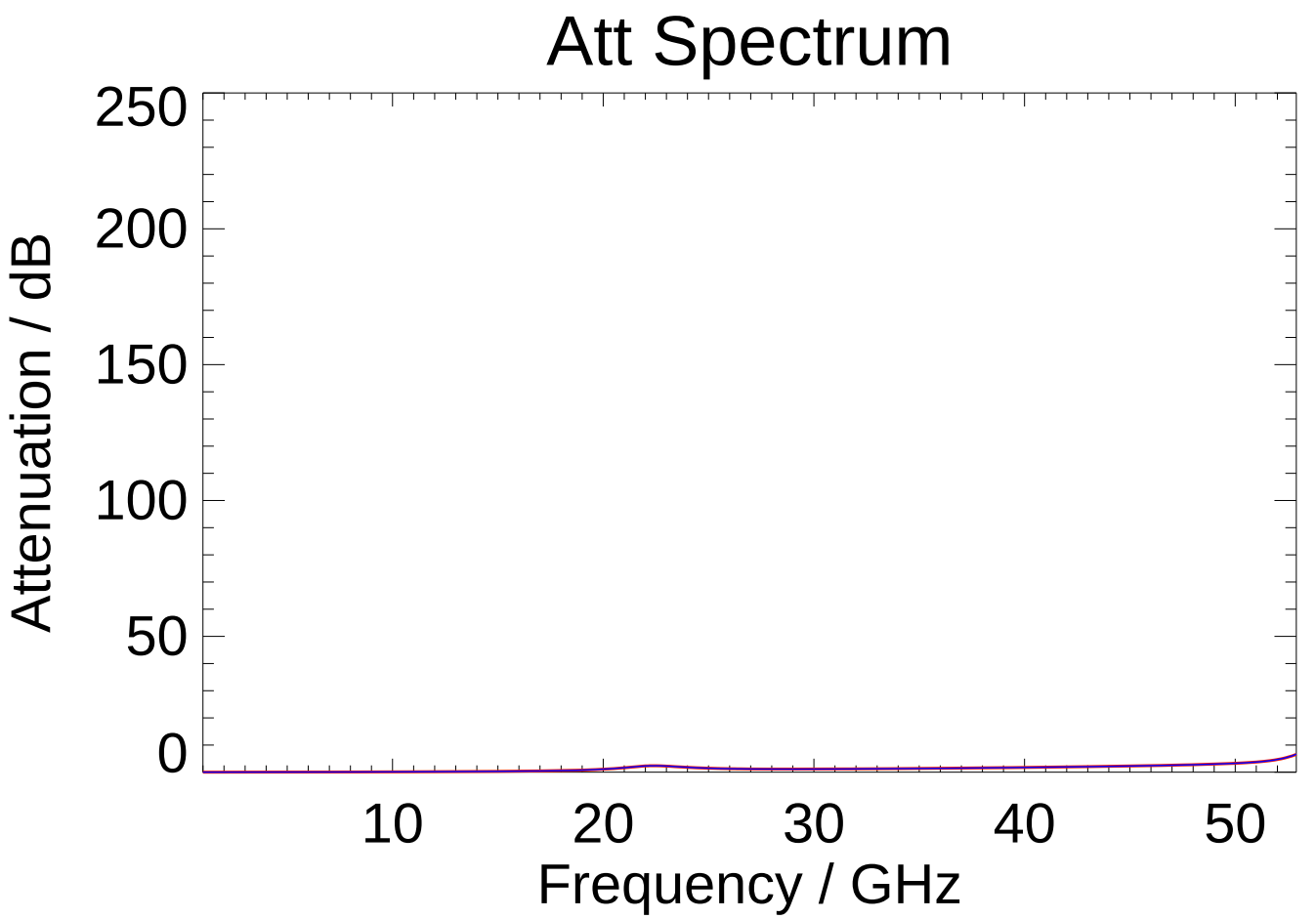
Frequency / GHz


Att Spectrum
Attenuation / dB
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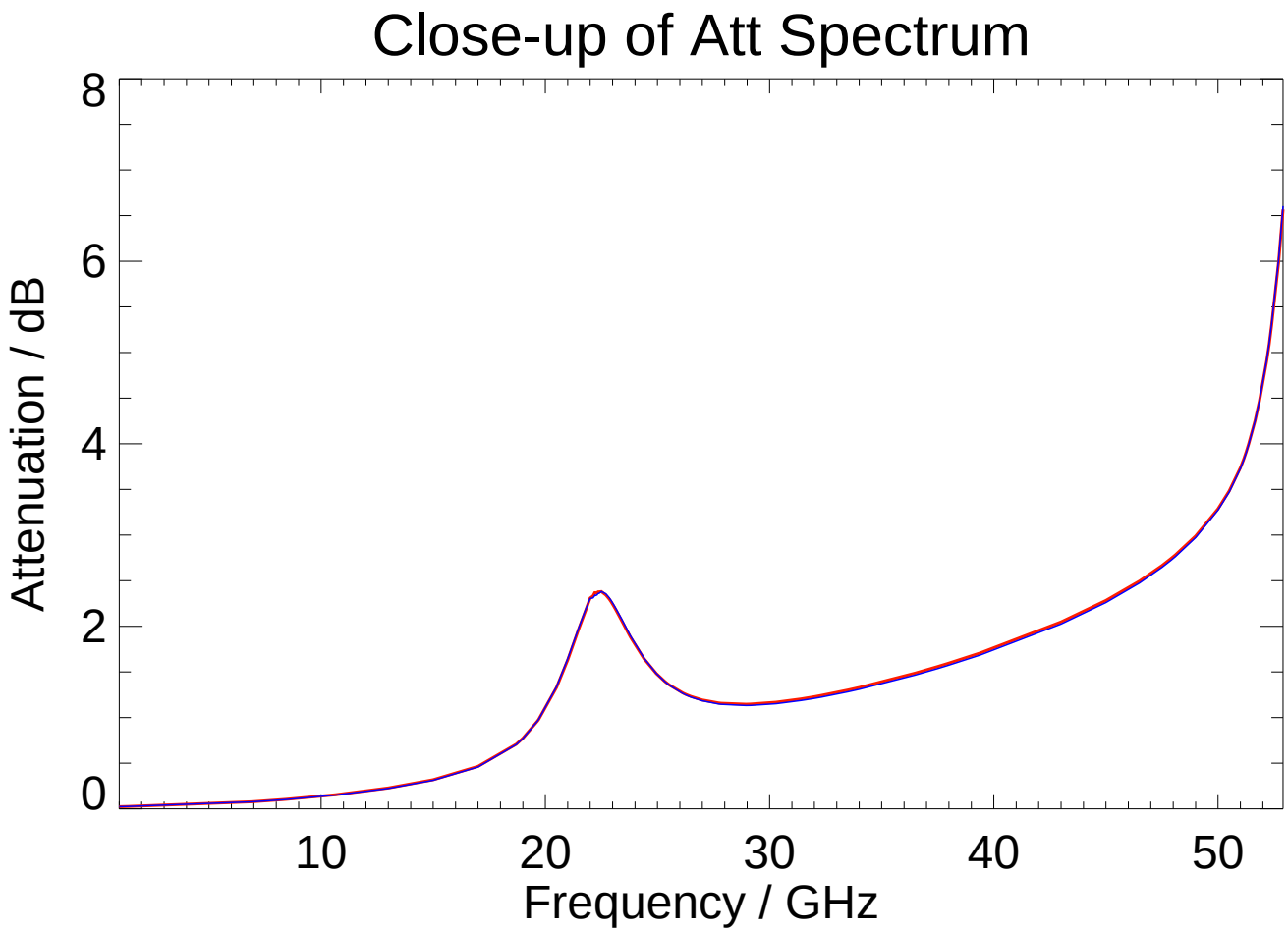
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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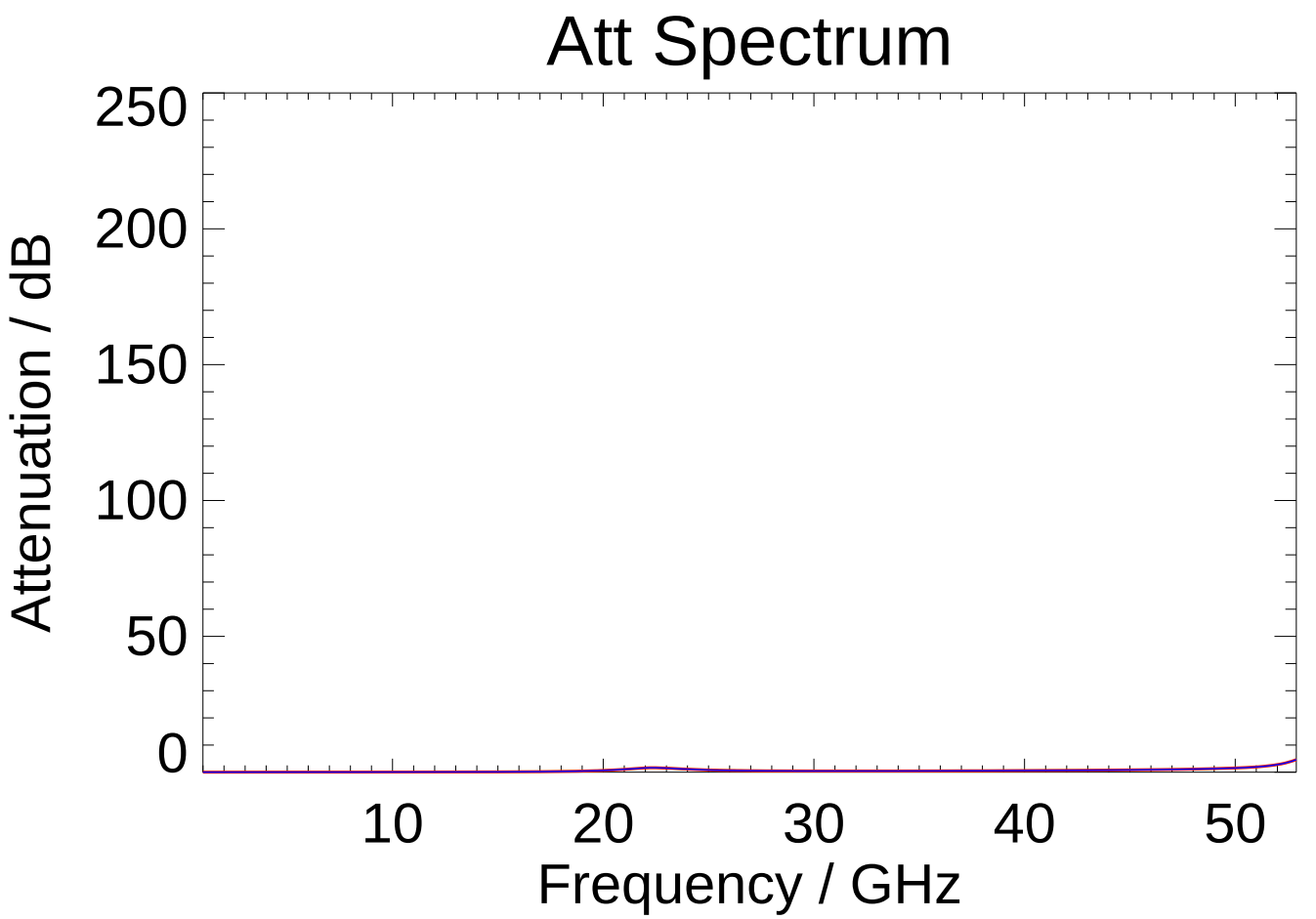
Frequency / GHz


Att Spectrum
Attenuation / dB
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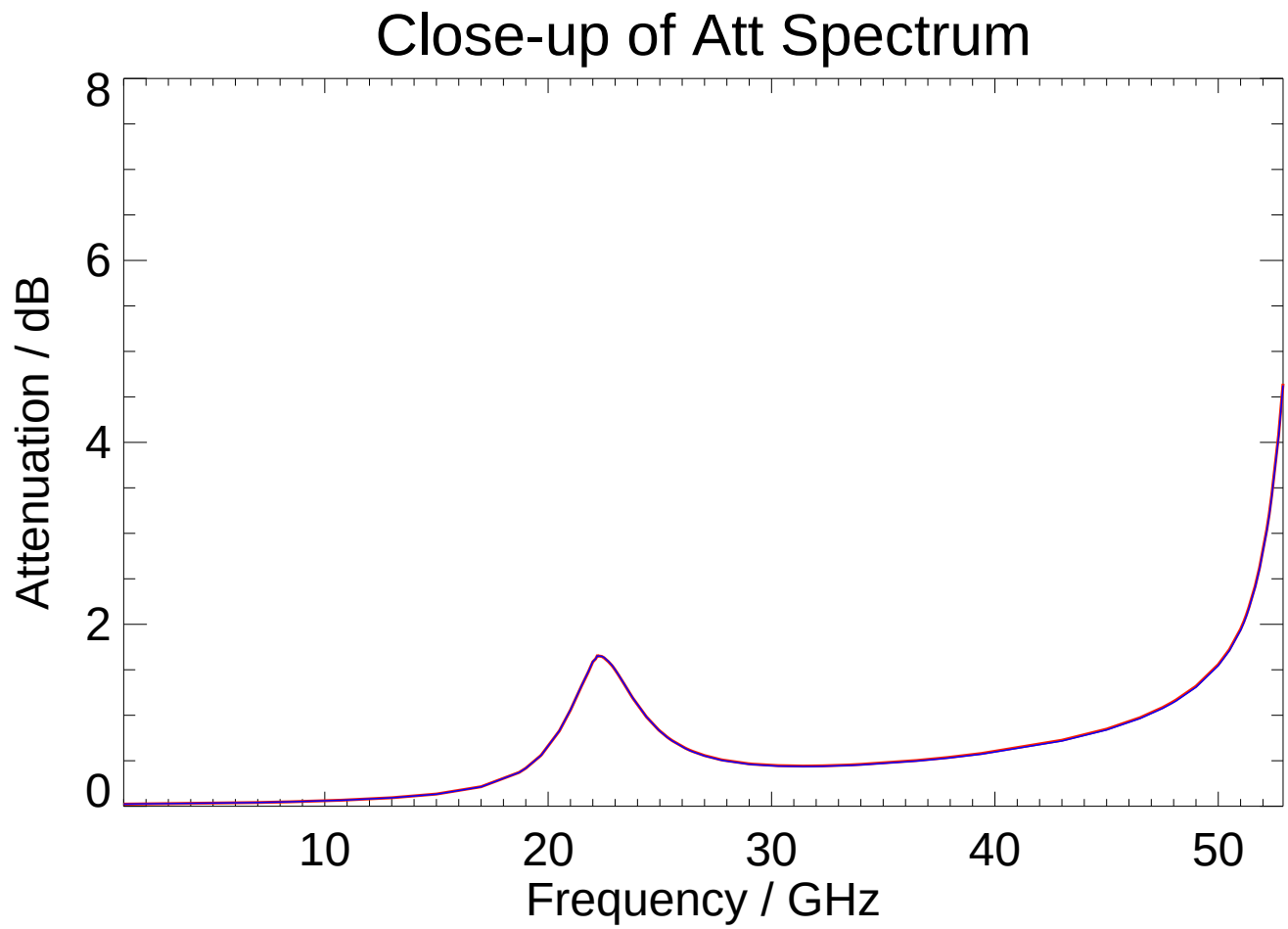
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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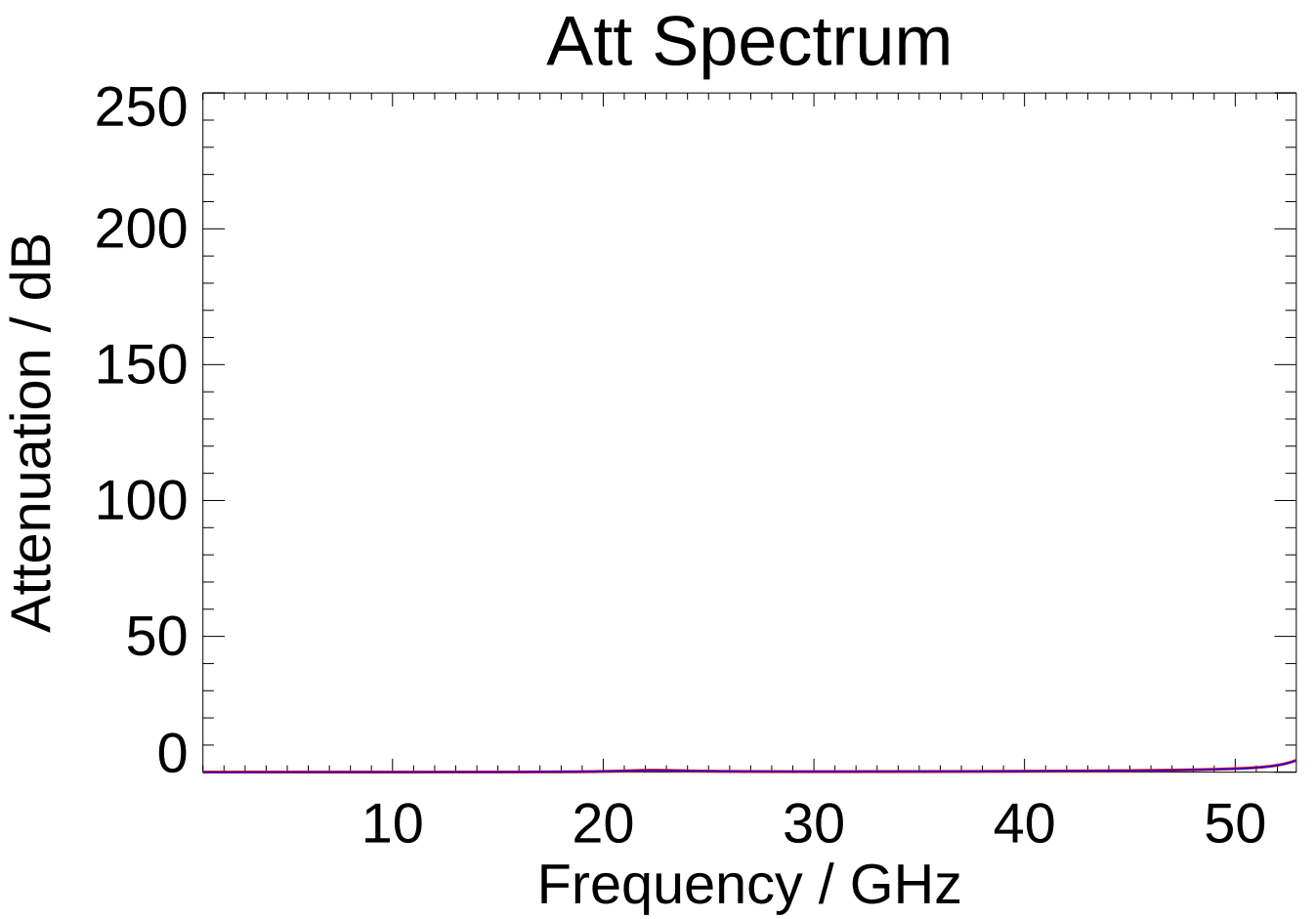
Frequency / GHz


Att Spectrum
Attenuation / dB
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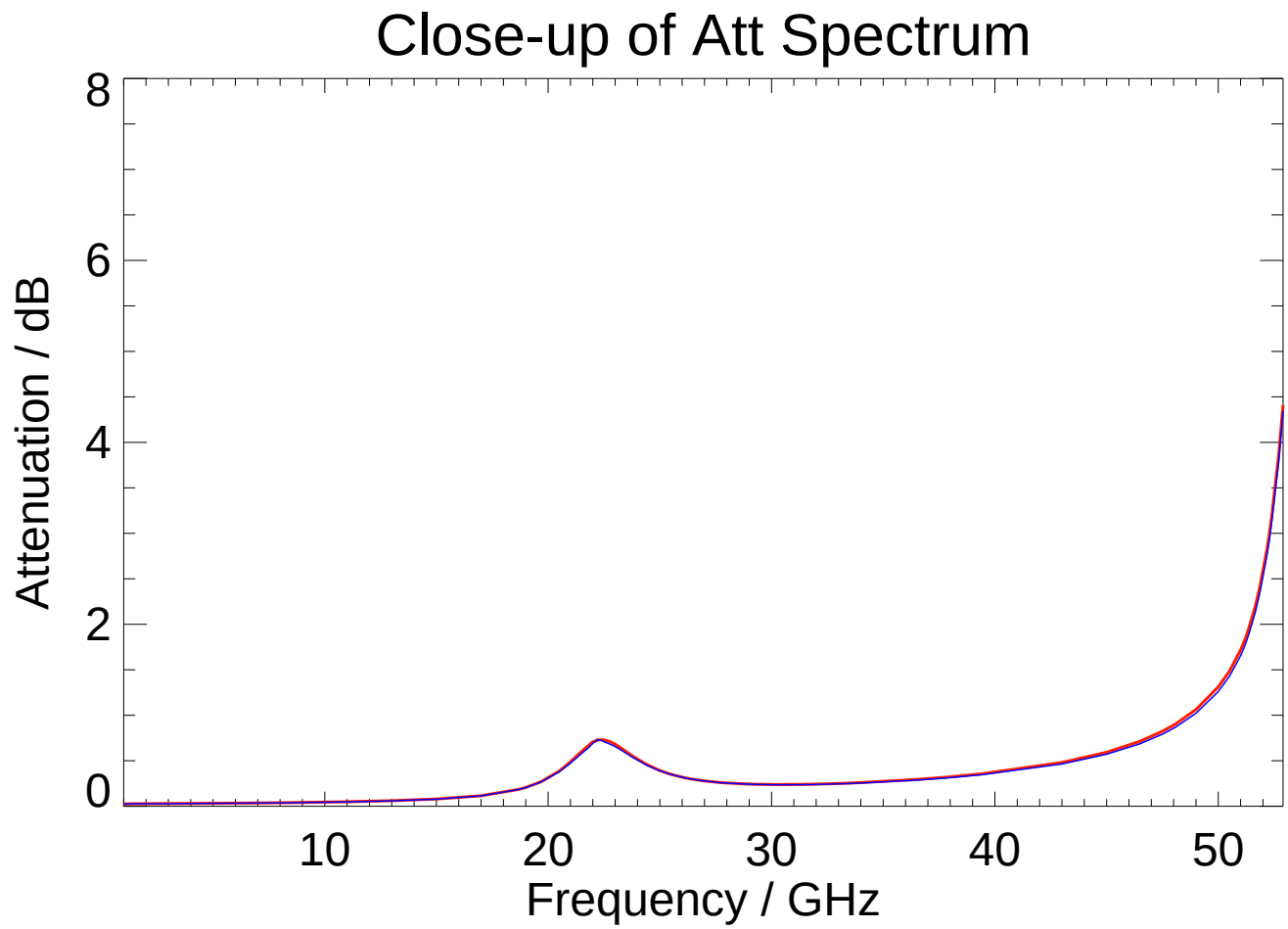
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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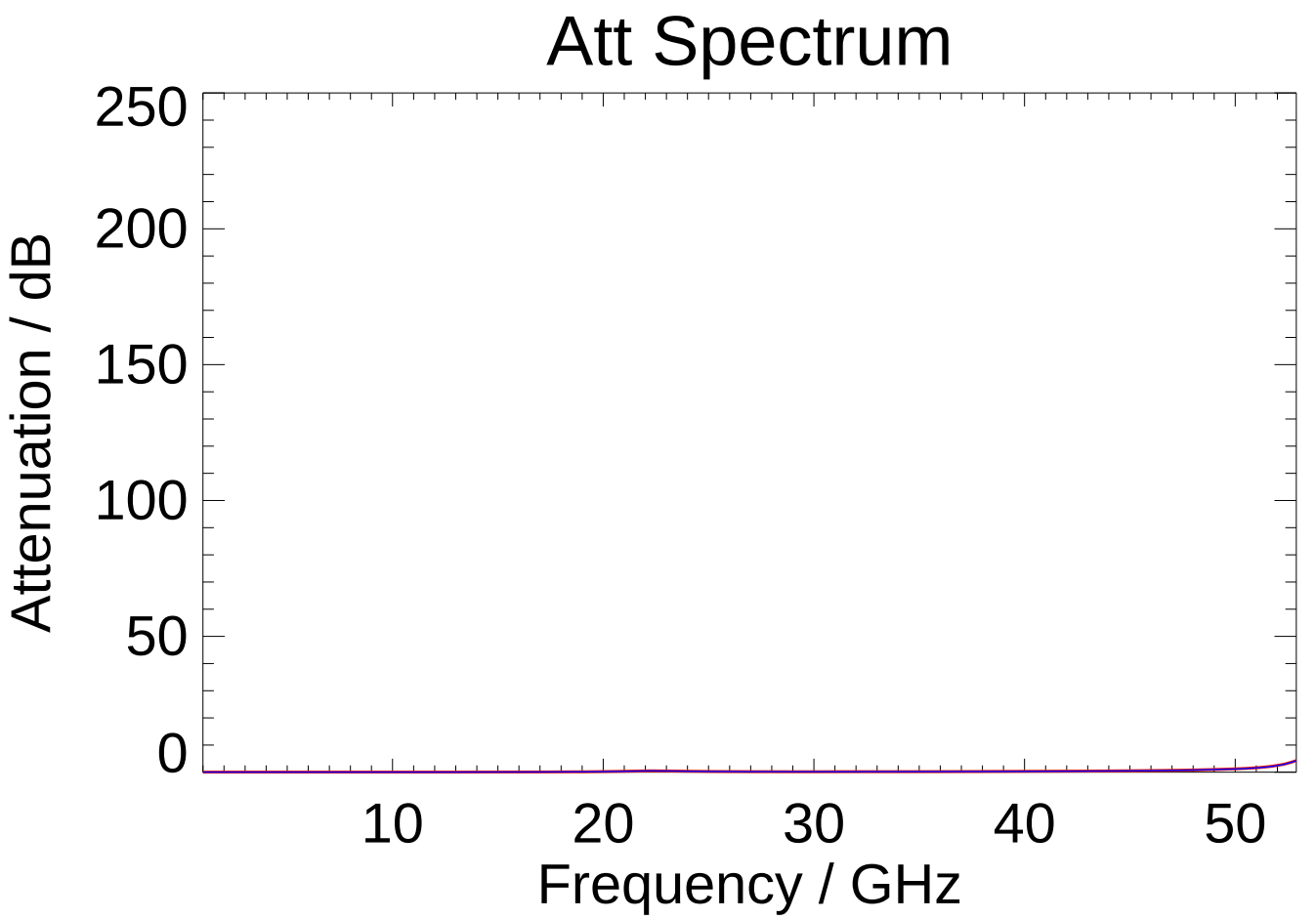
Frequency / GHz


Att Spectrum
Attenuation / dB
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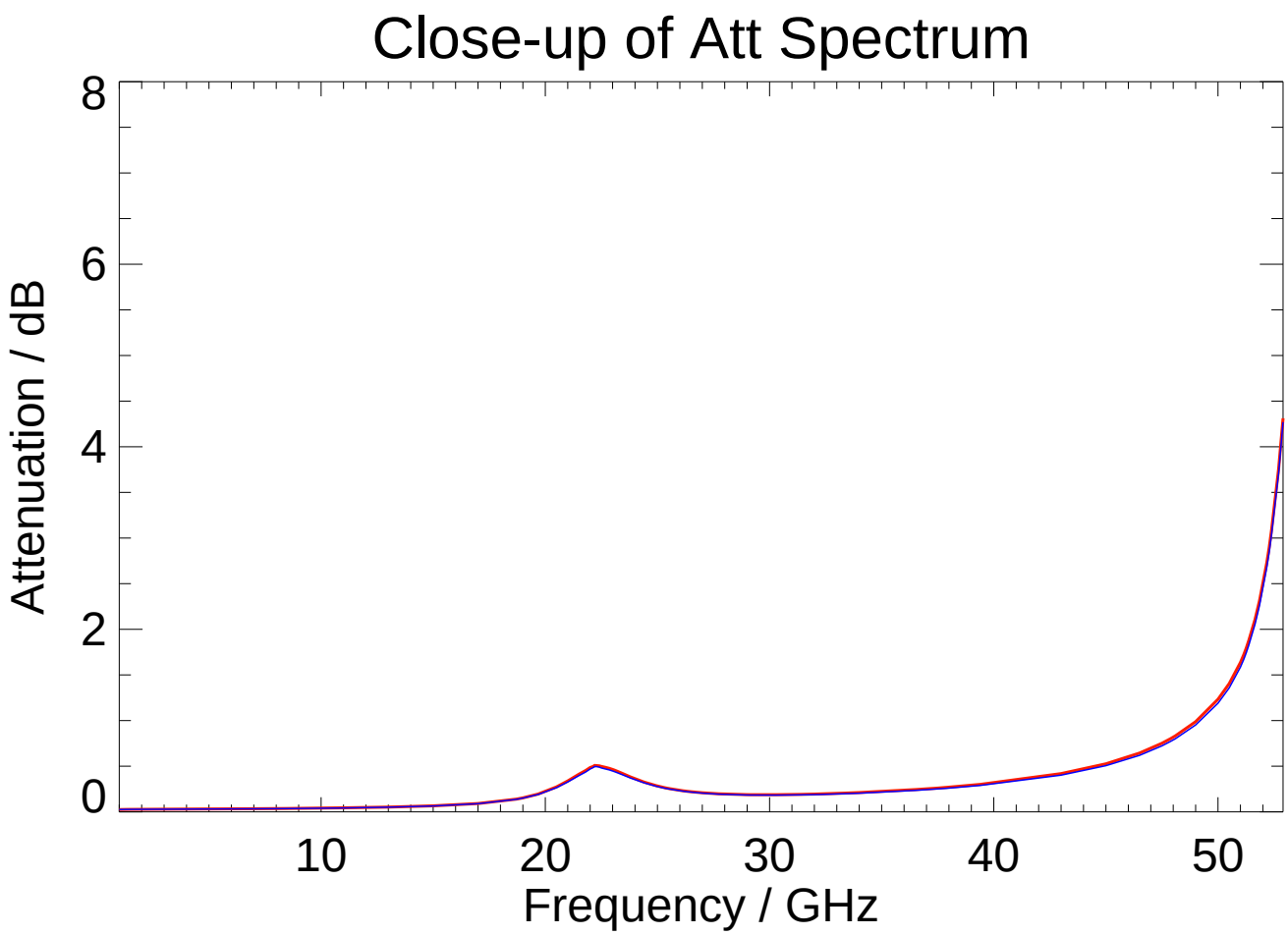
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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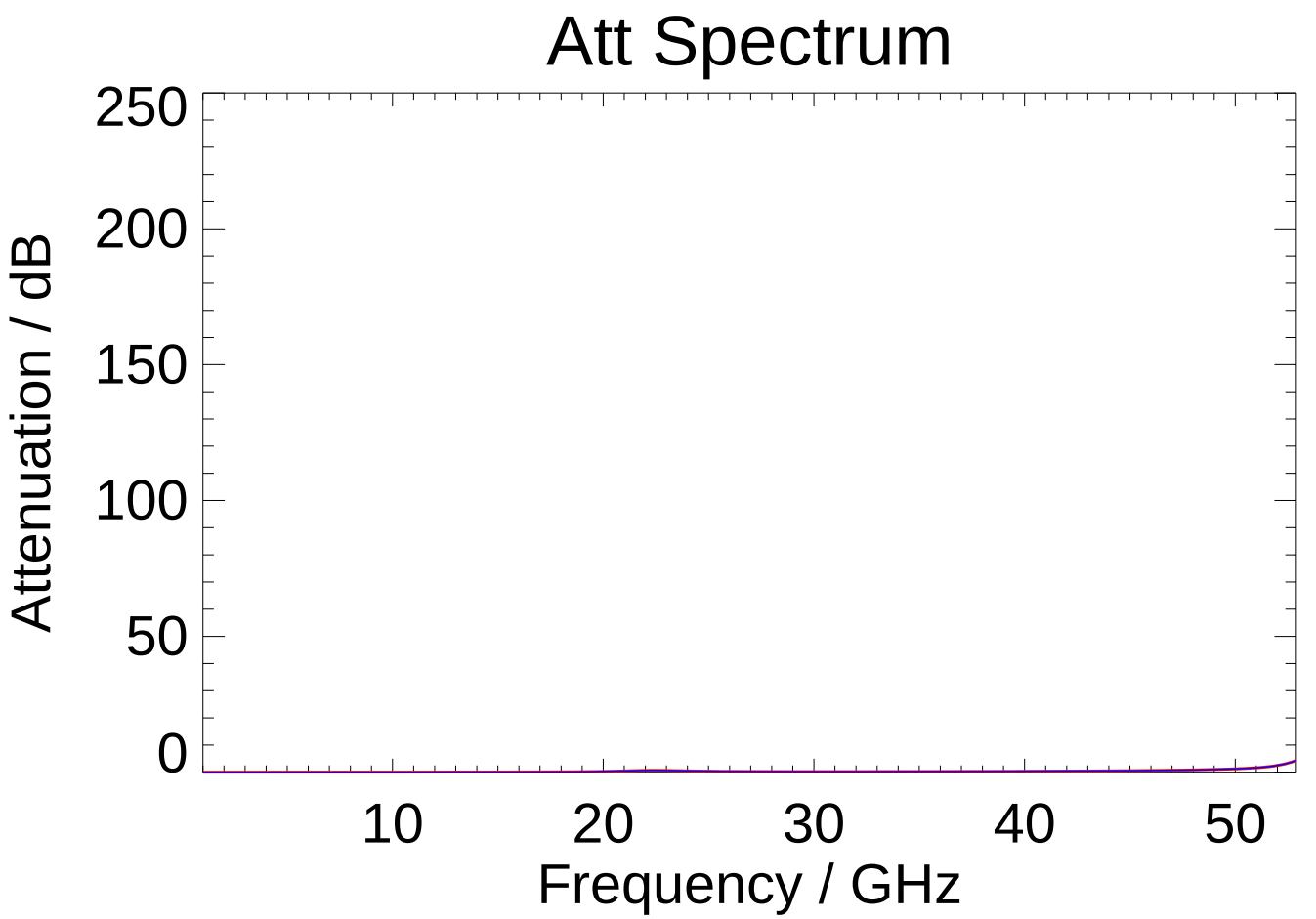
Frequency / GHz


Att Spectrum
Attenuation / dB
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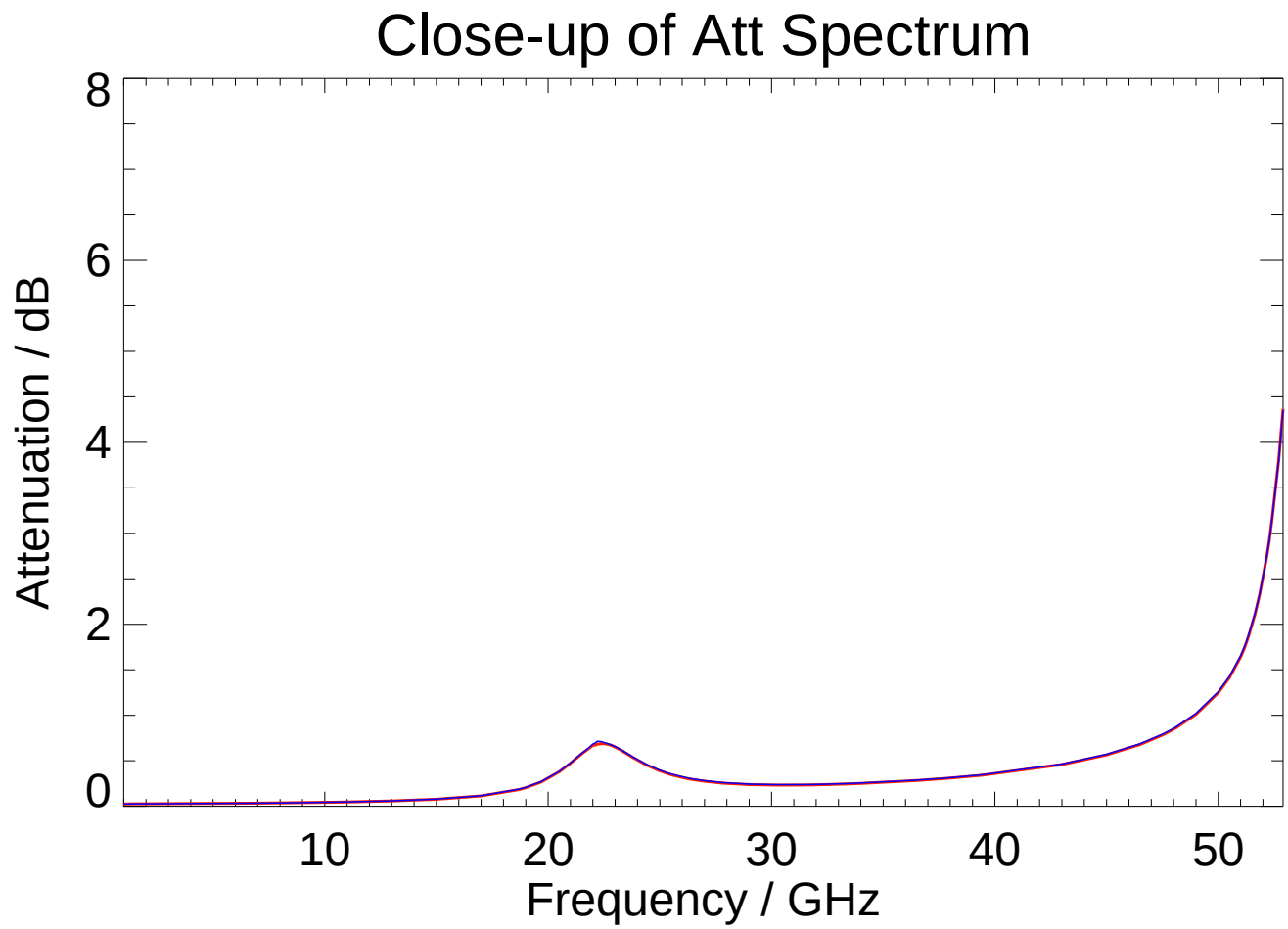
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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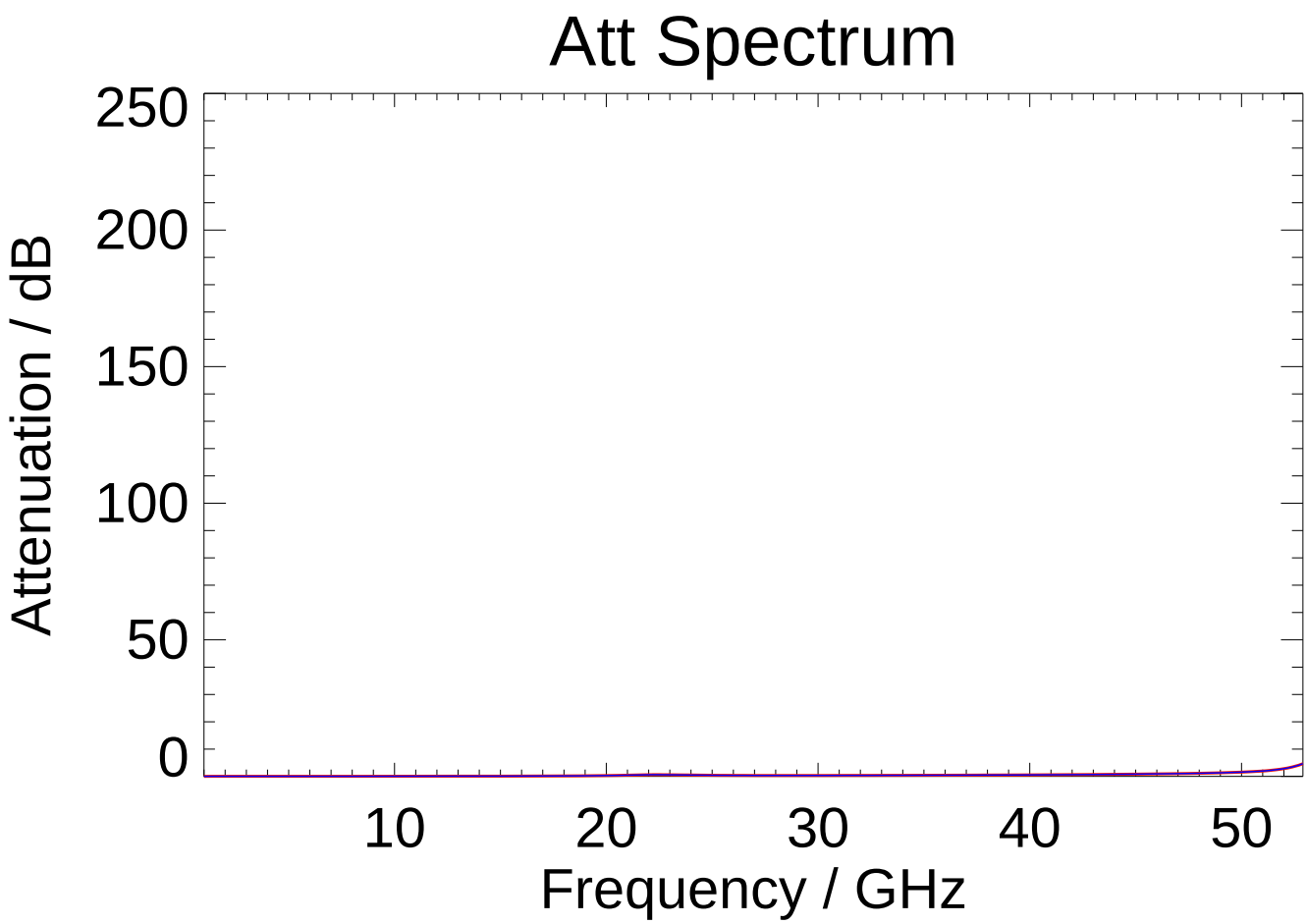
Frequency / GHz


Att Spectrum
Attenuation / dB
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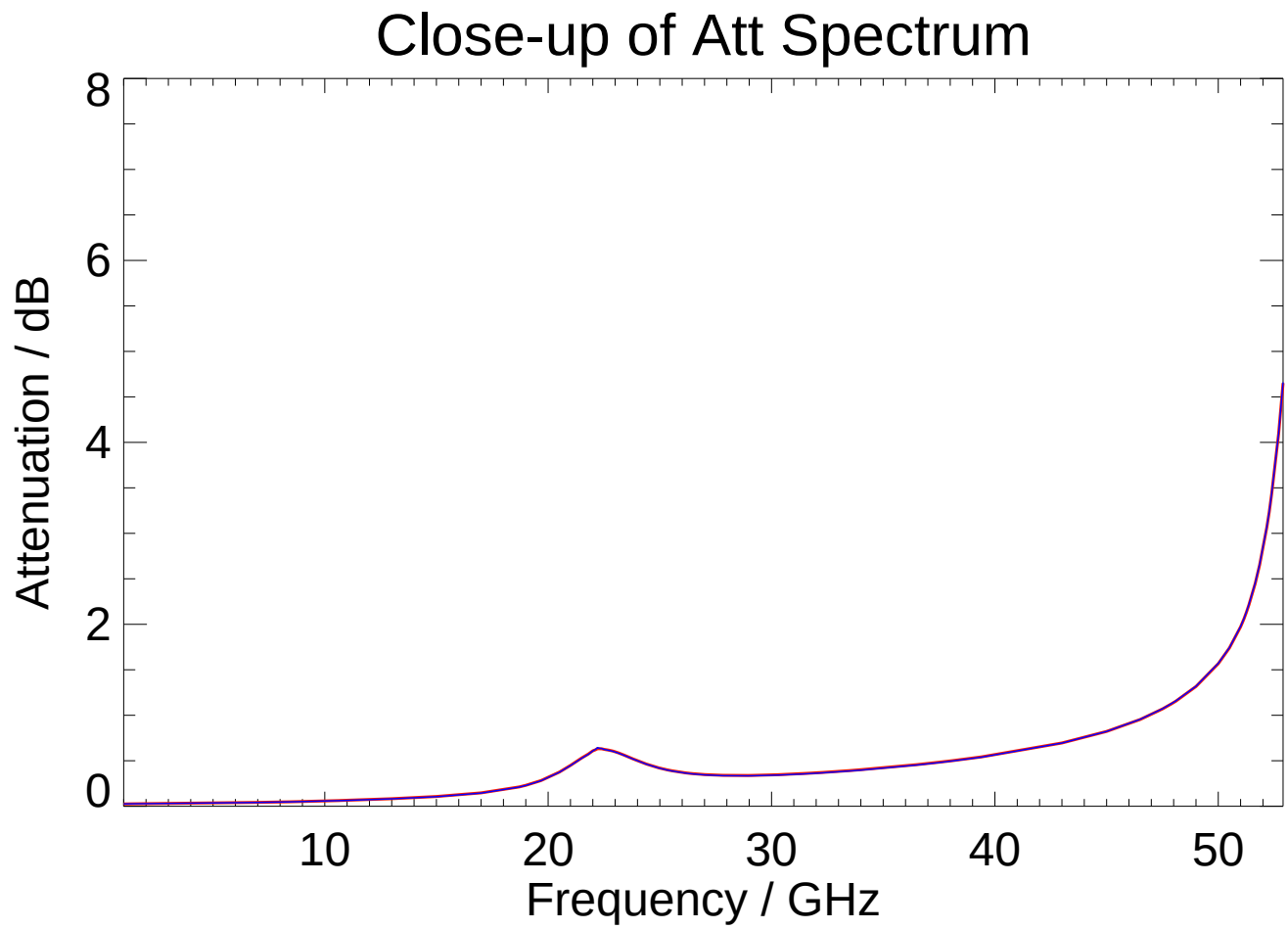
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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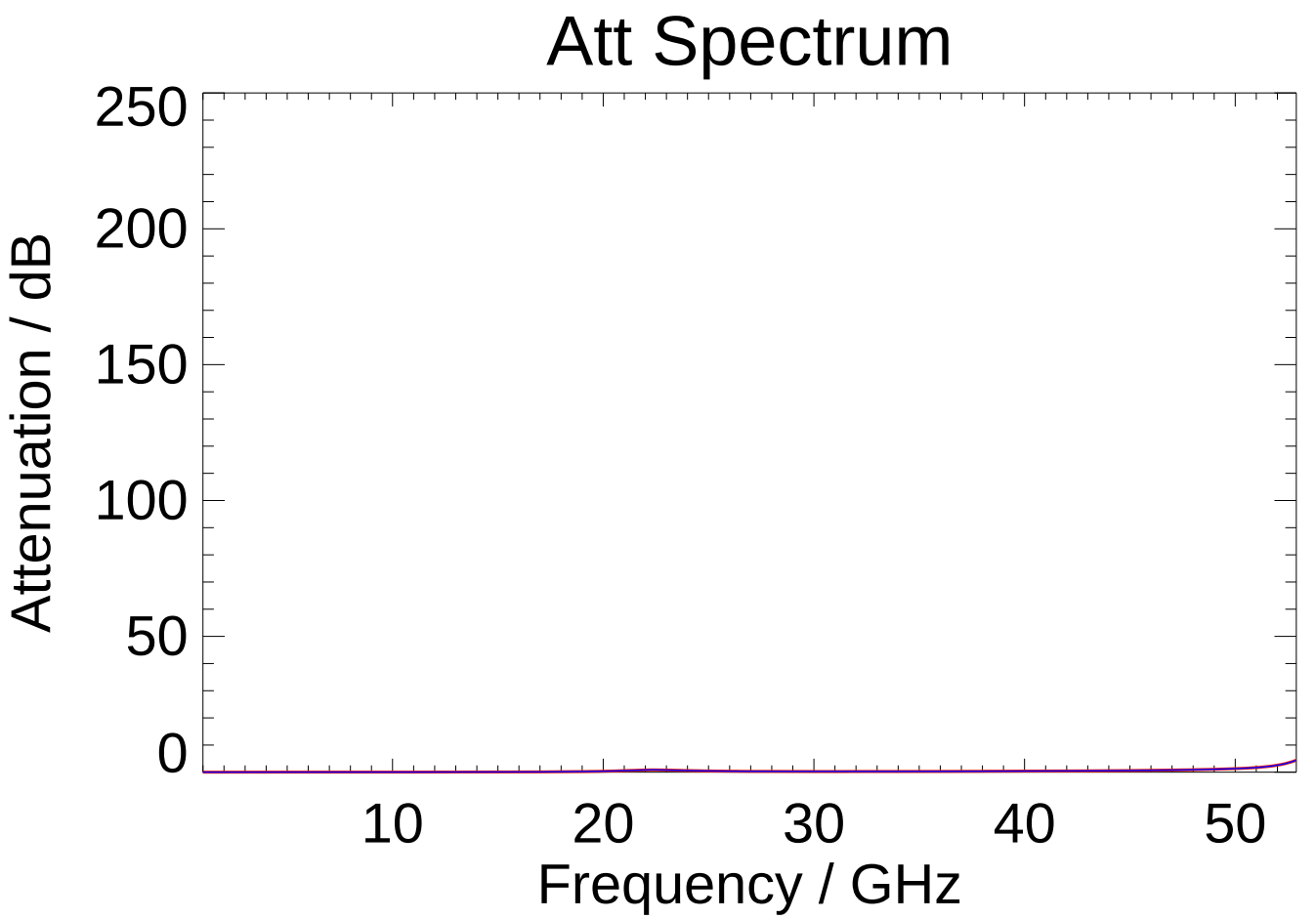
Frequency / GHz


Att Spectrum
Attenuation / dB
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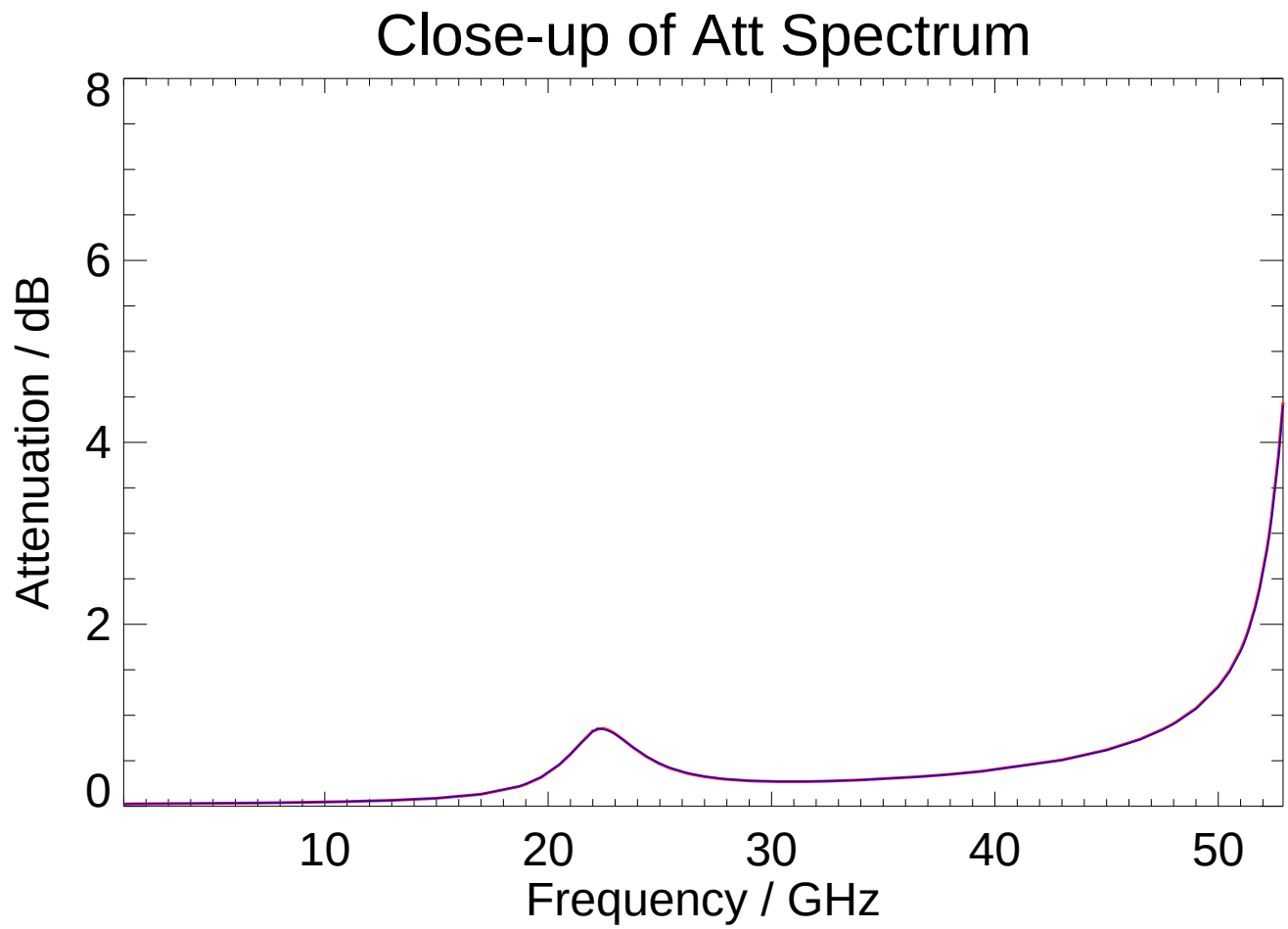
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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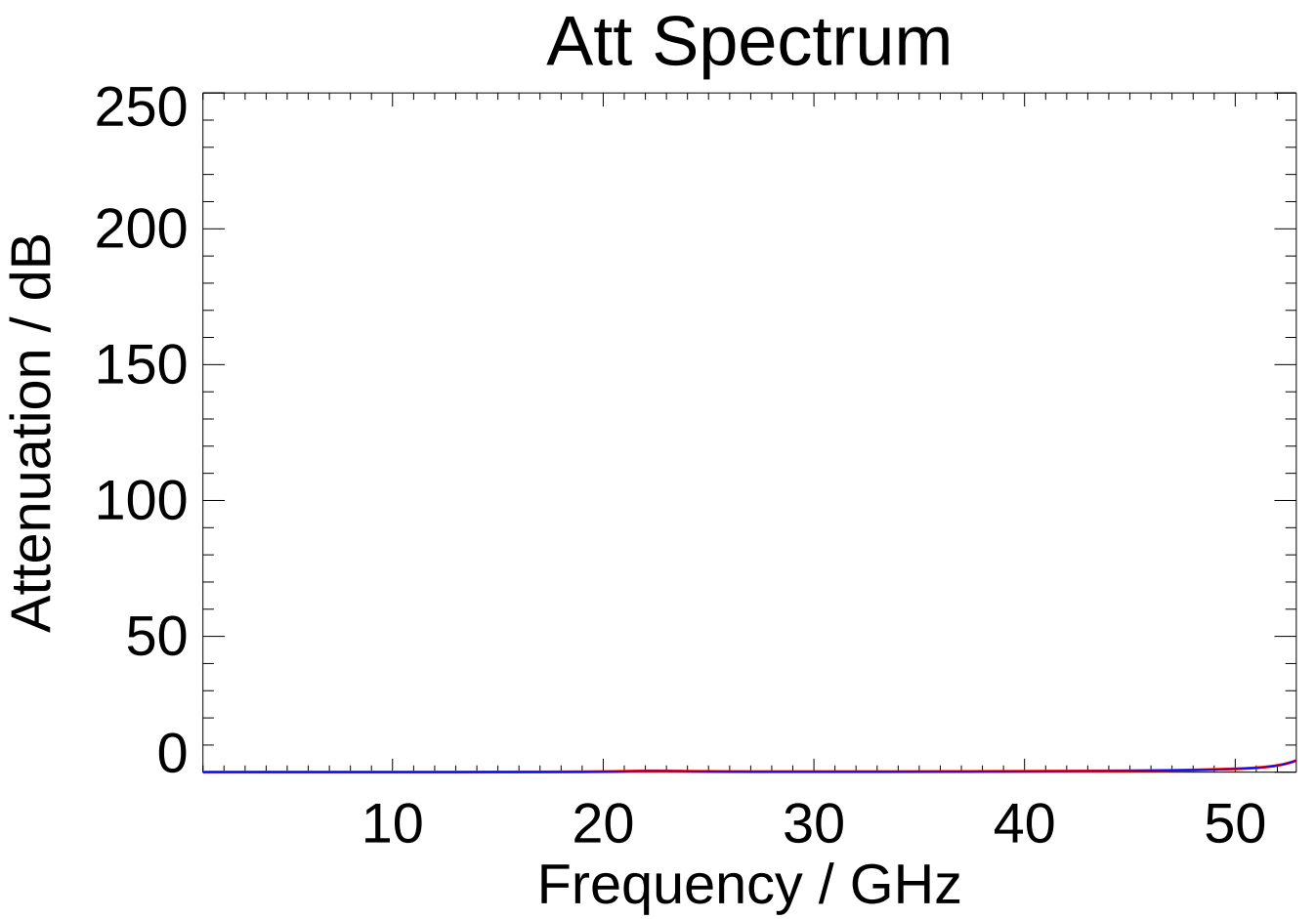
Frequency / GHz


Att Spectrum
Attenuation / dB
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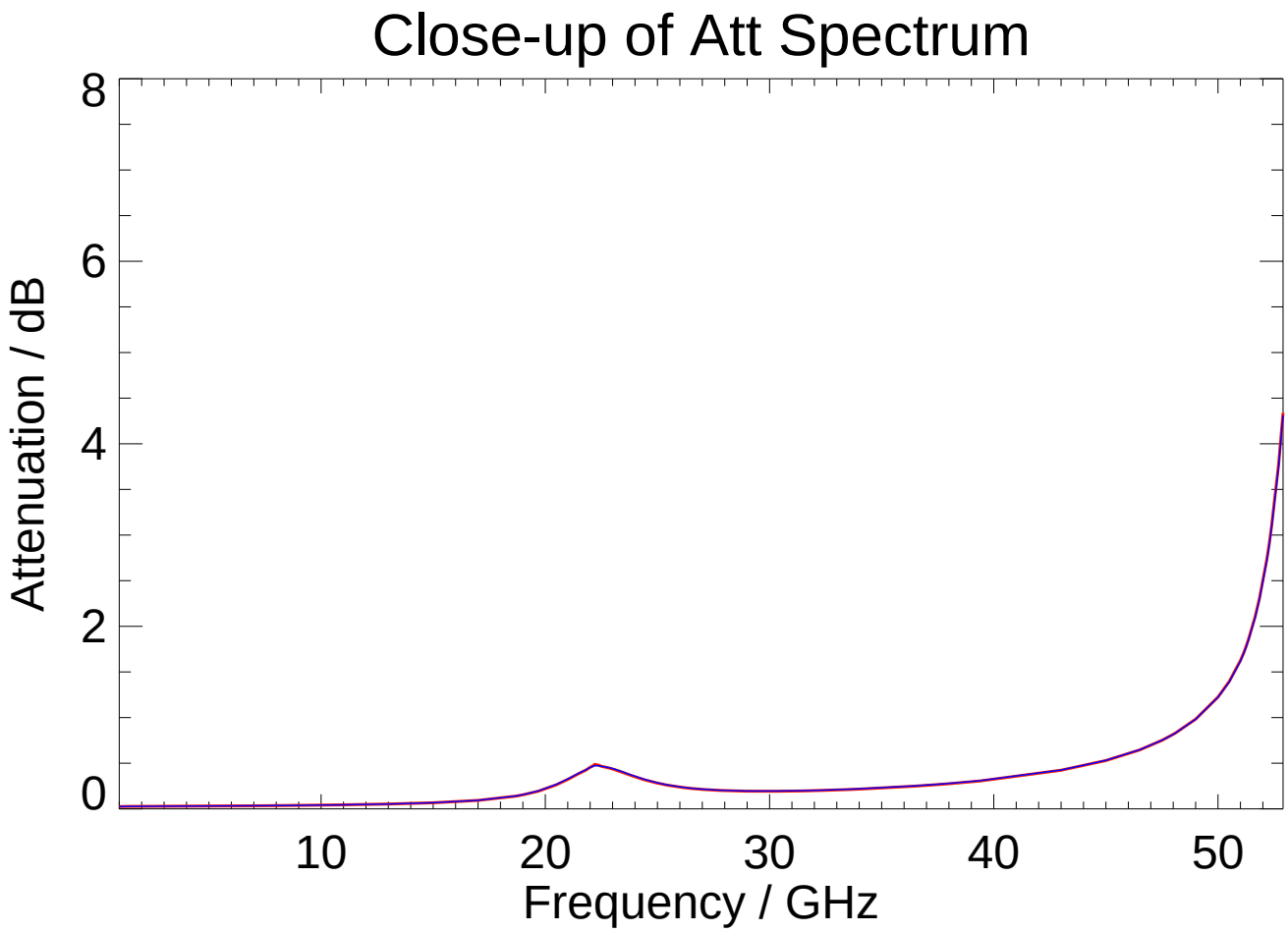
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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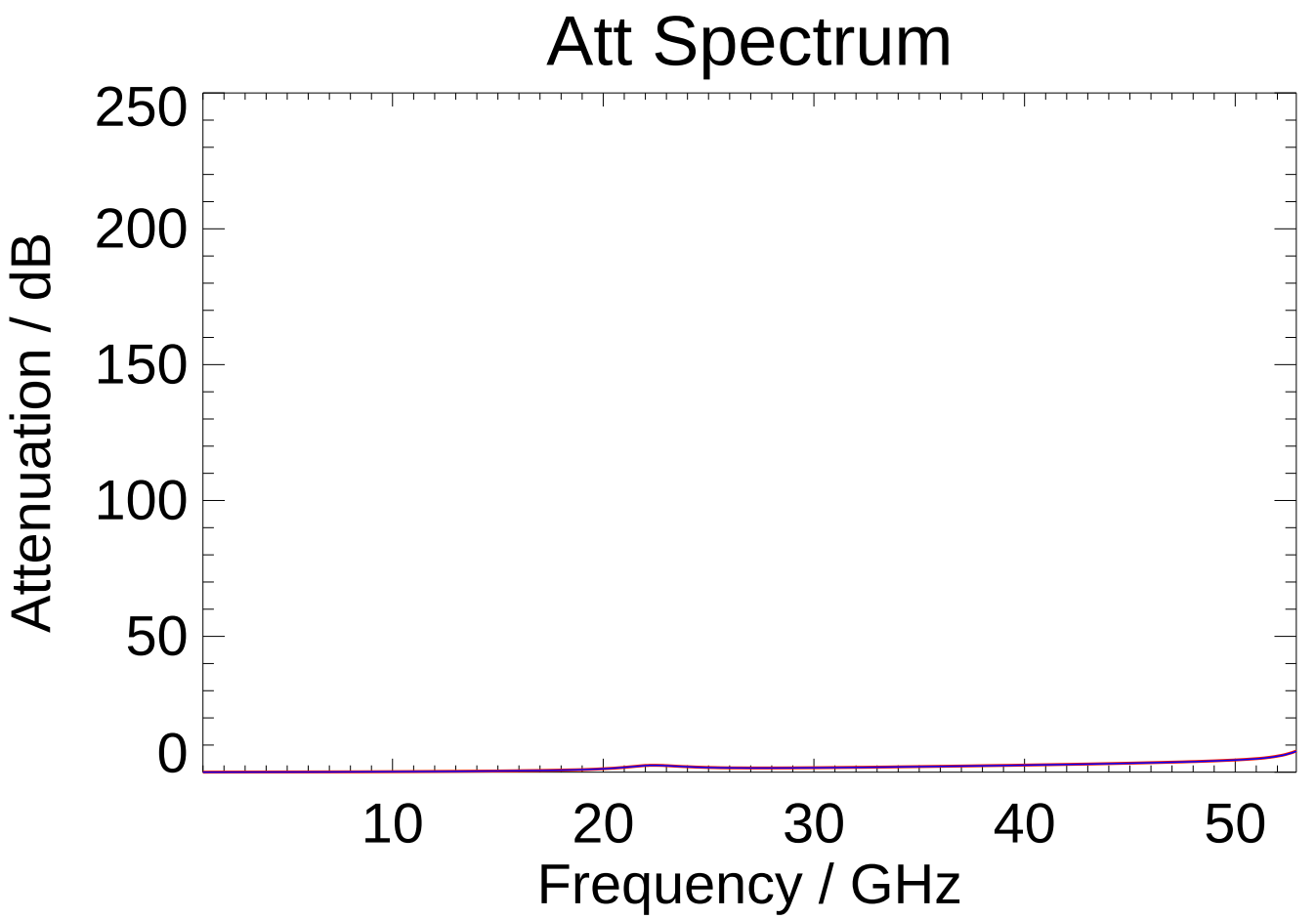
Frequency / GHz


Att Spectrum
Attenuation / dB
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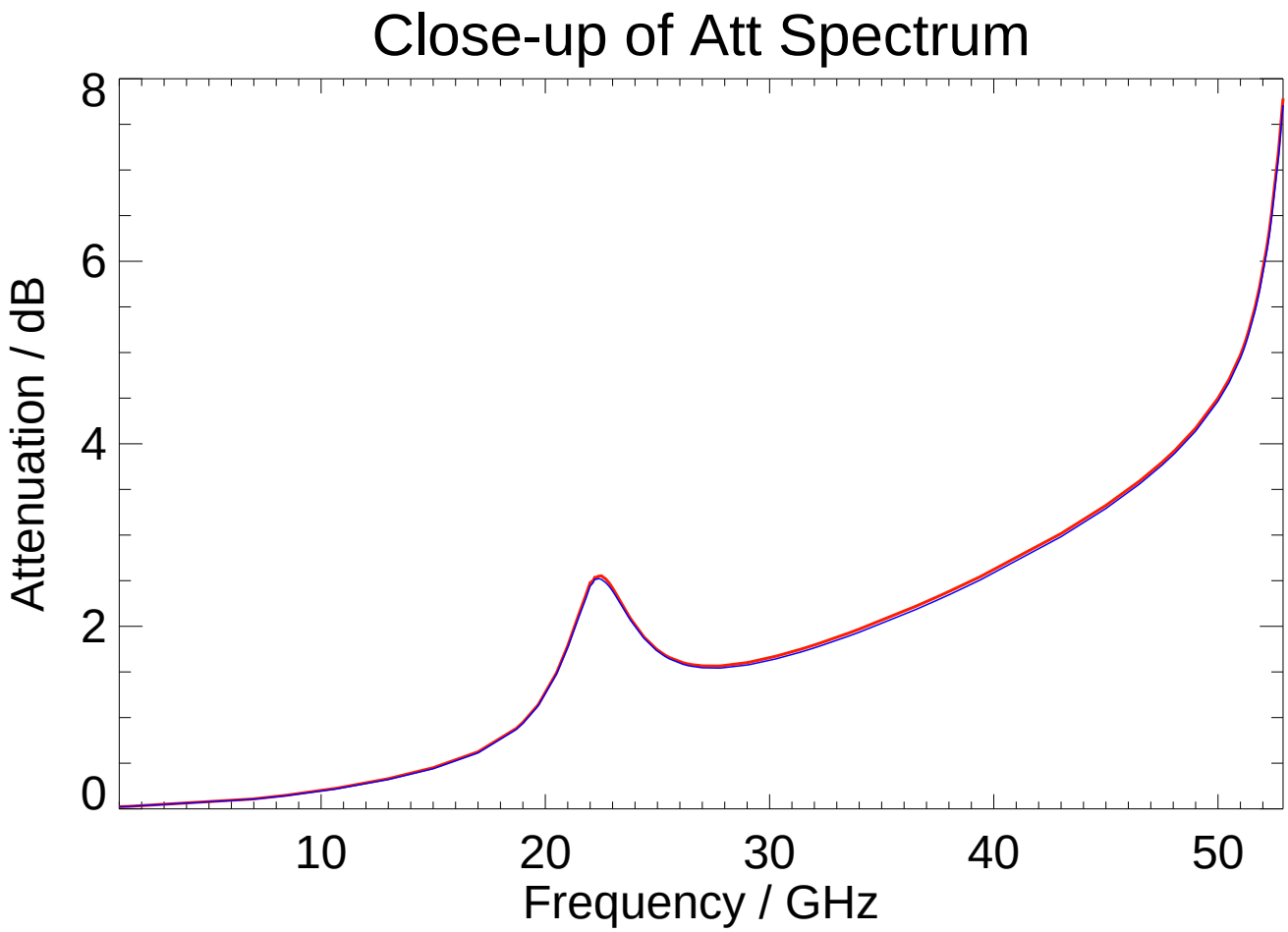
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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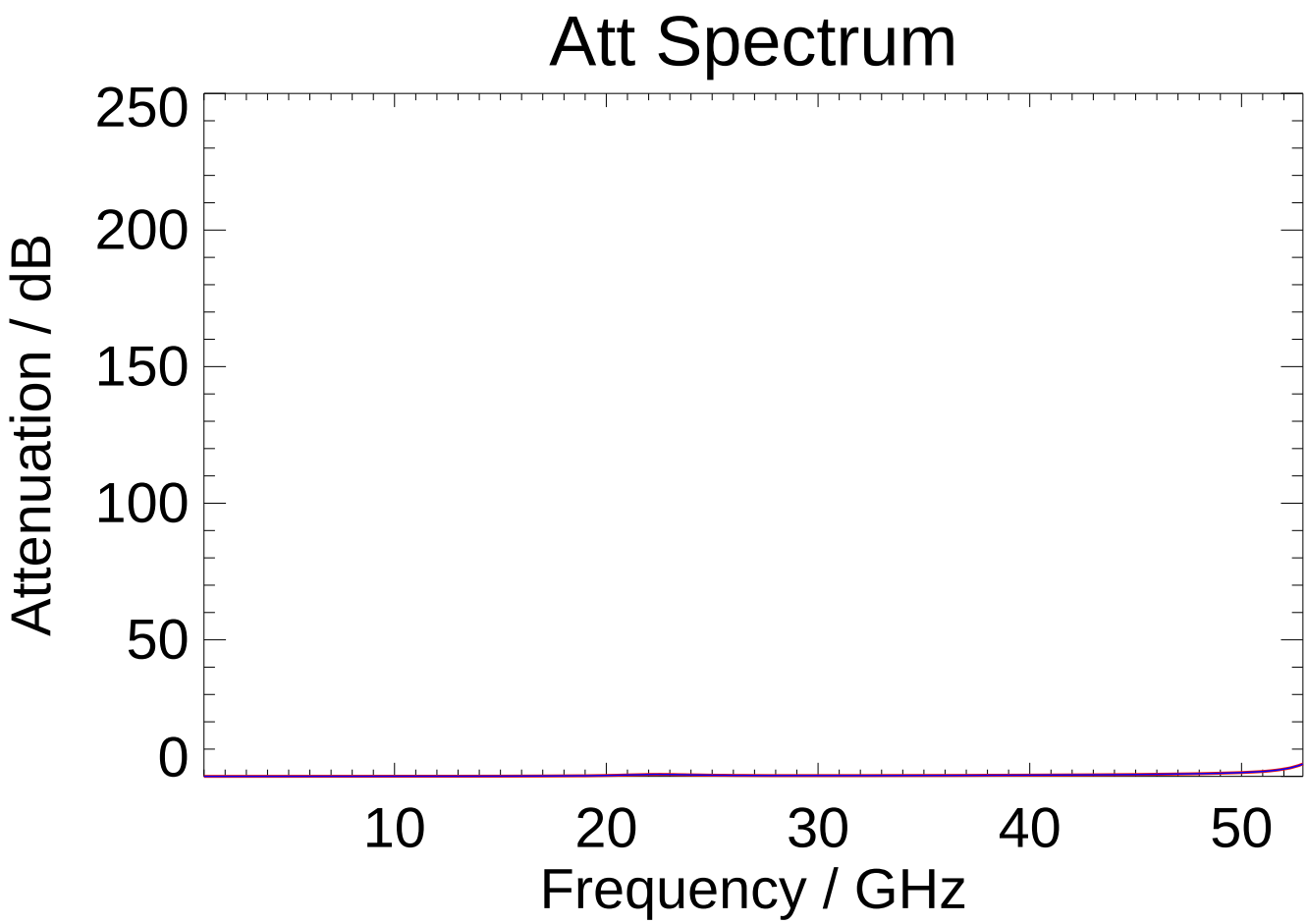
Frequency / GHz


Att Spectrum
Attenuation / dB
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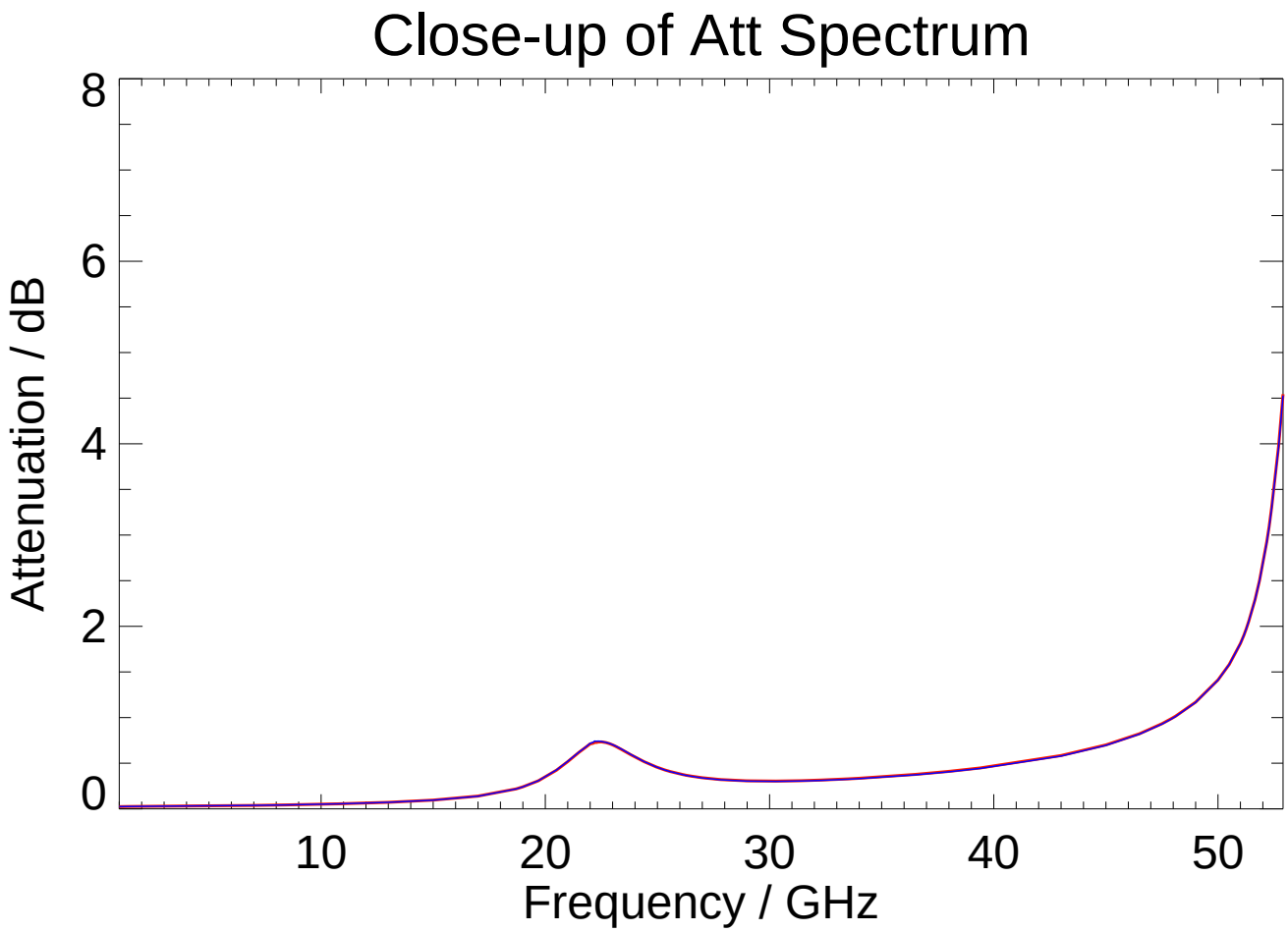
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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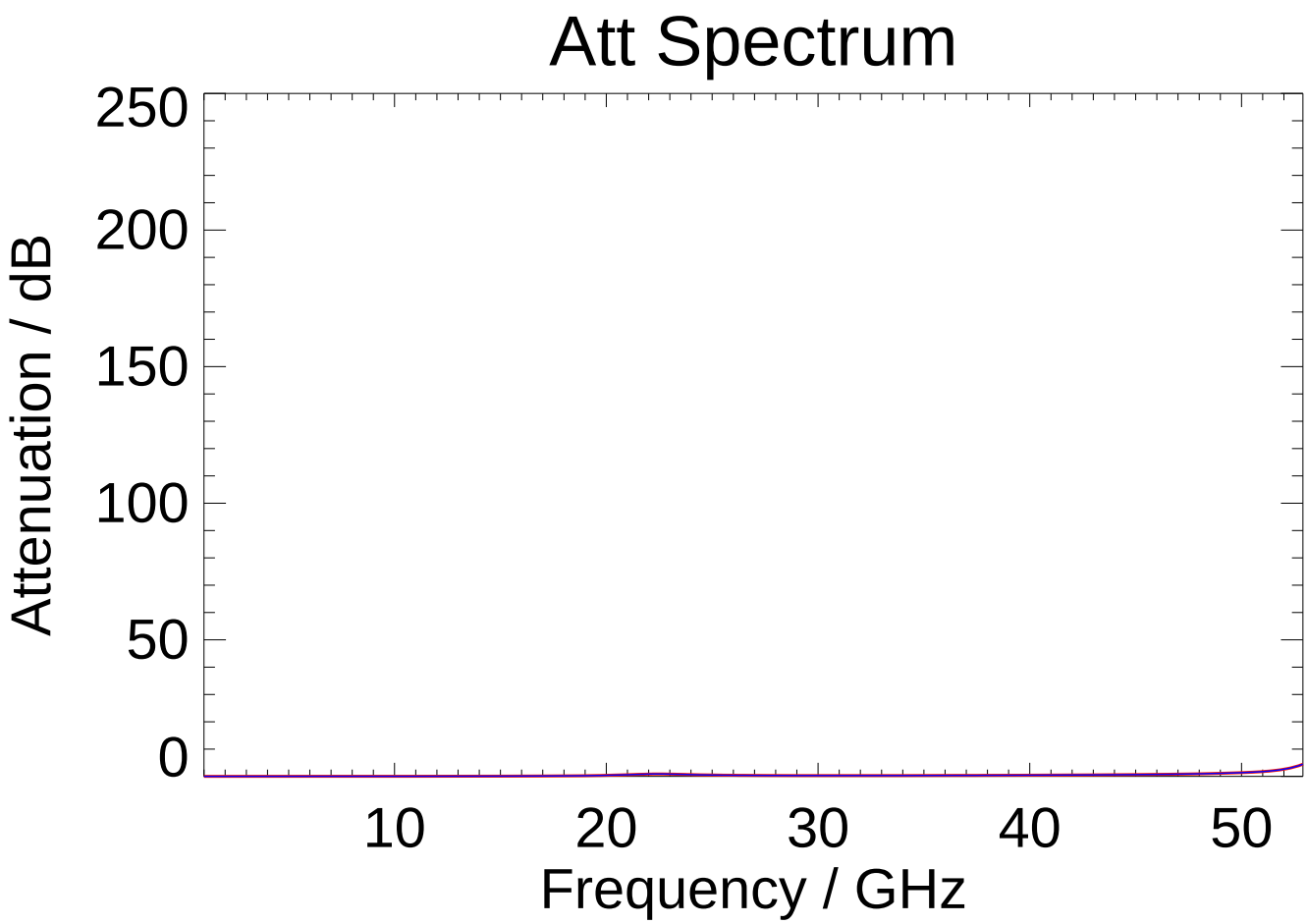
Frequency / GHz


Att Spectrum
Attenuation / dB
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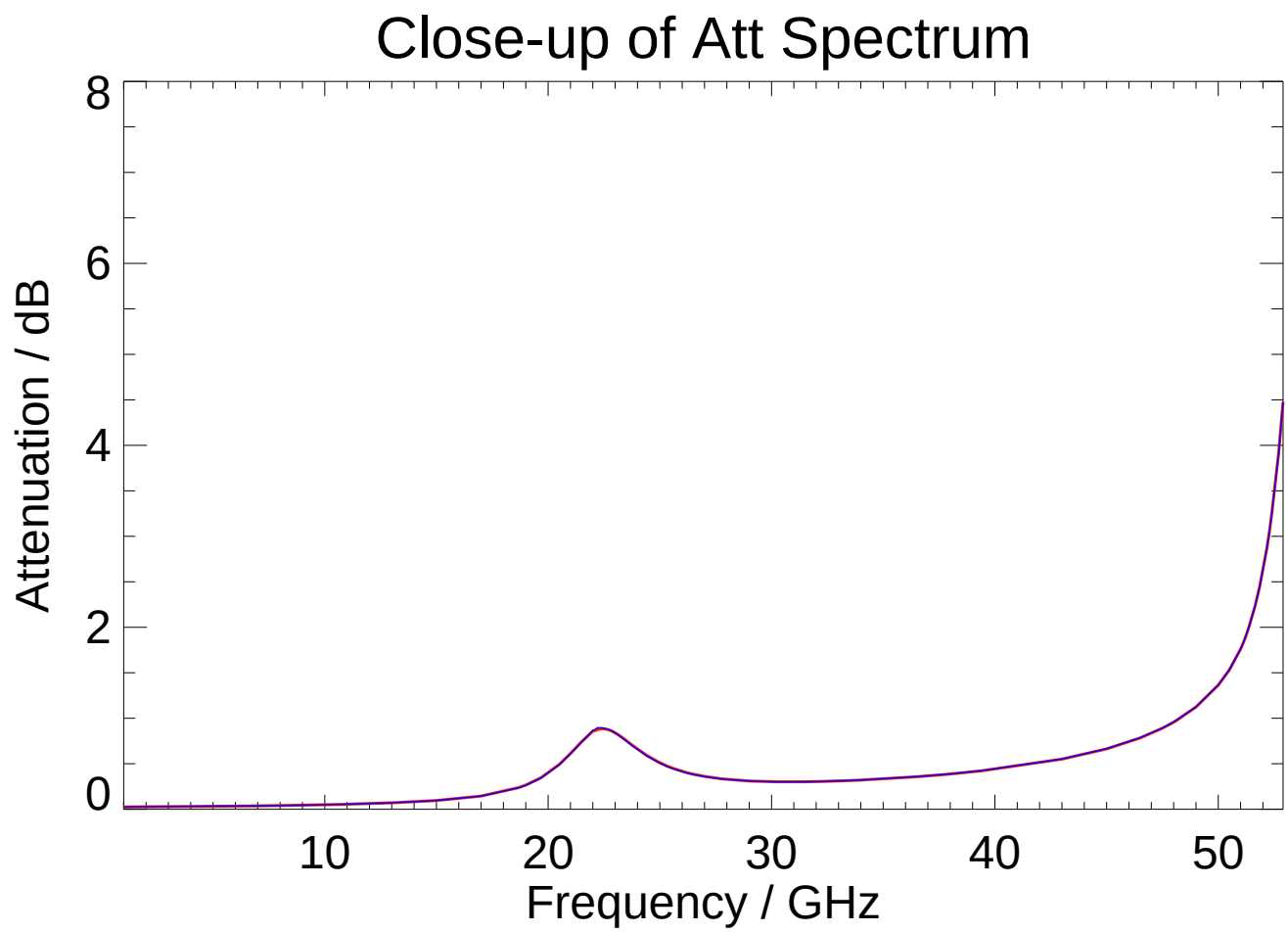
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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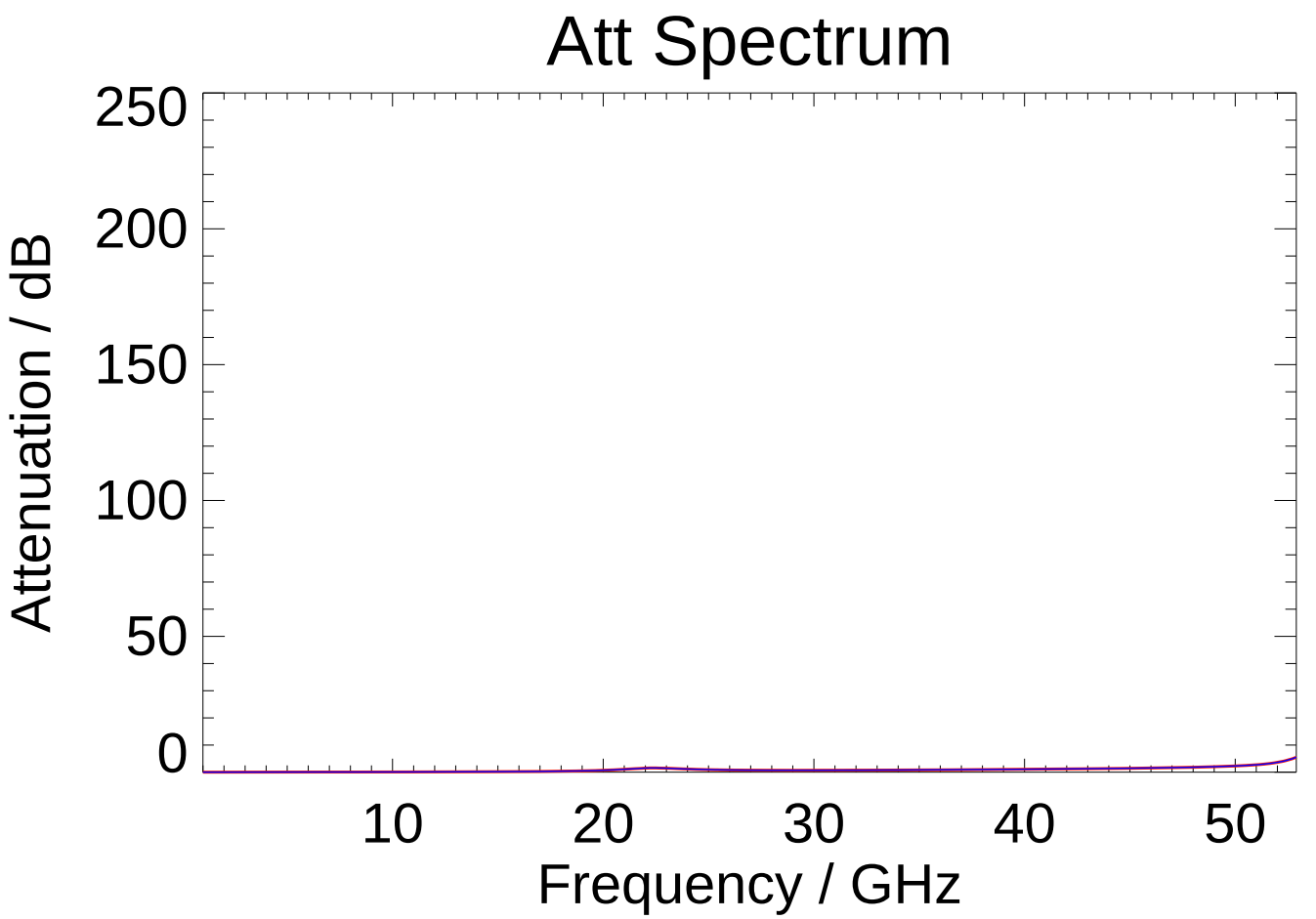
Frequency / GHz


Att Spectrum
Attenuation / dB
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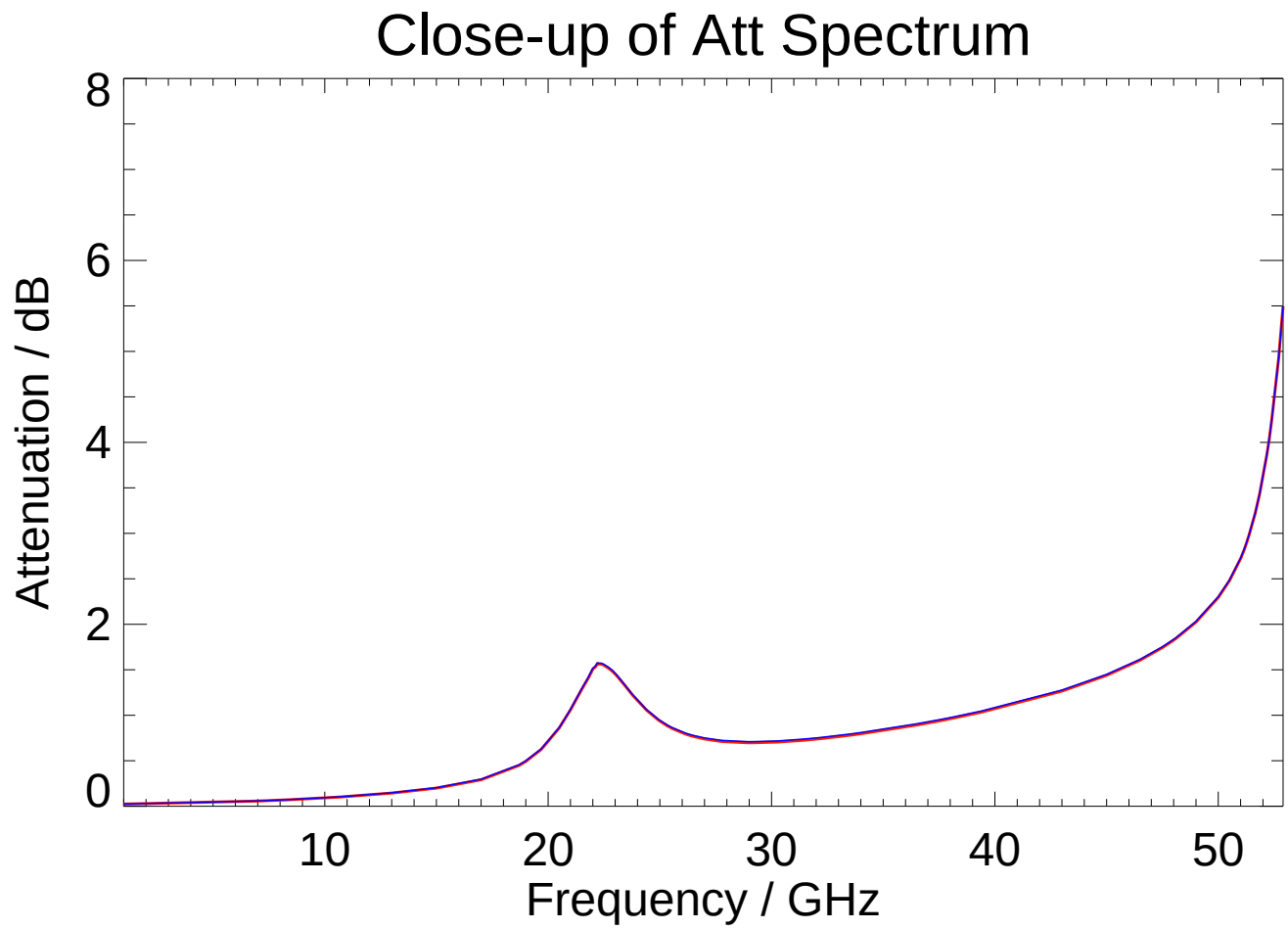
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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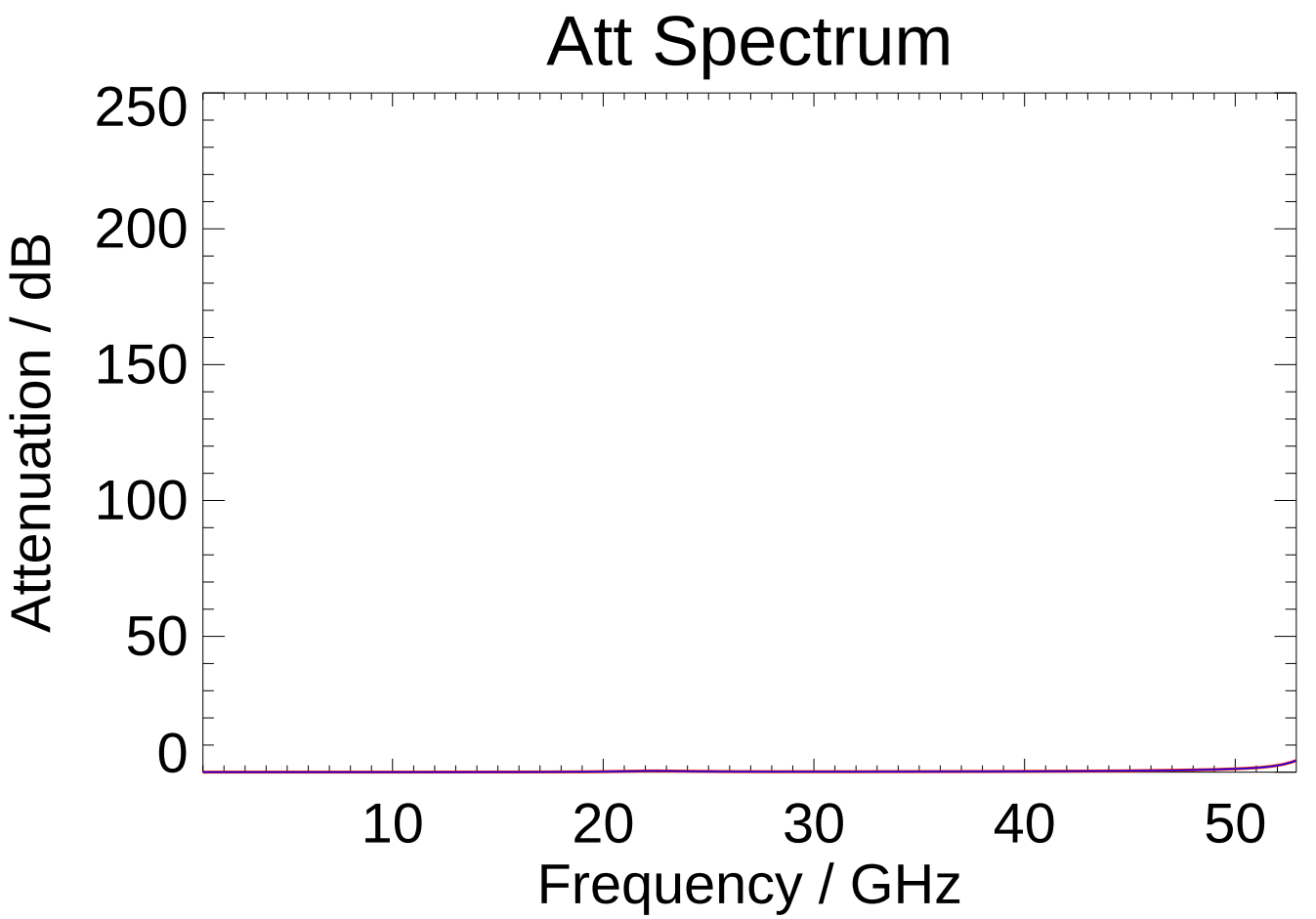
Frequency / GHz


Att Spectrum
Attenuation / dB
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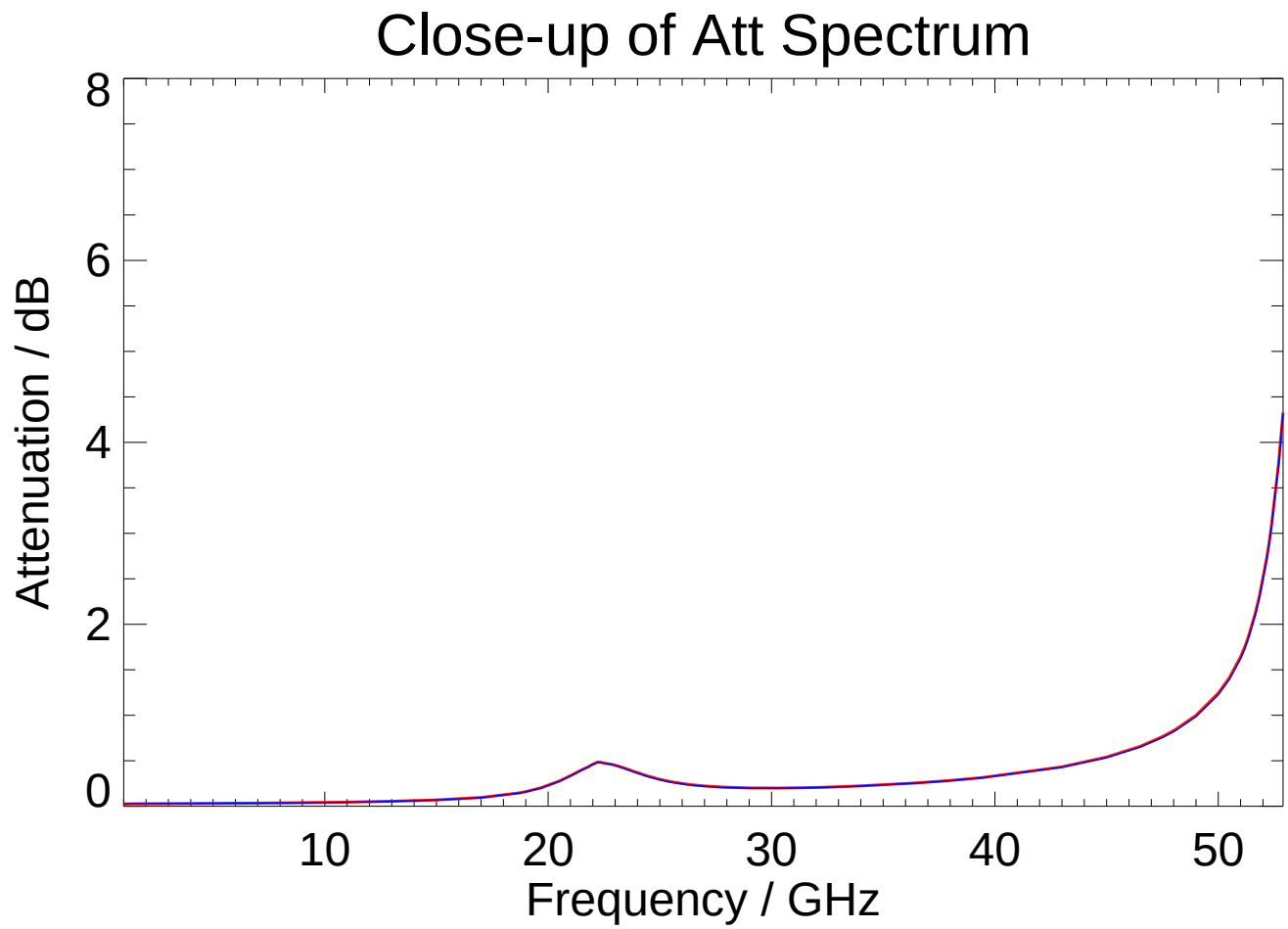
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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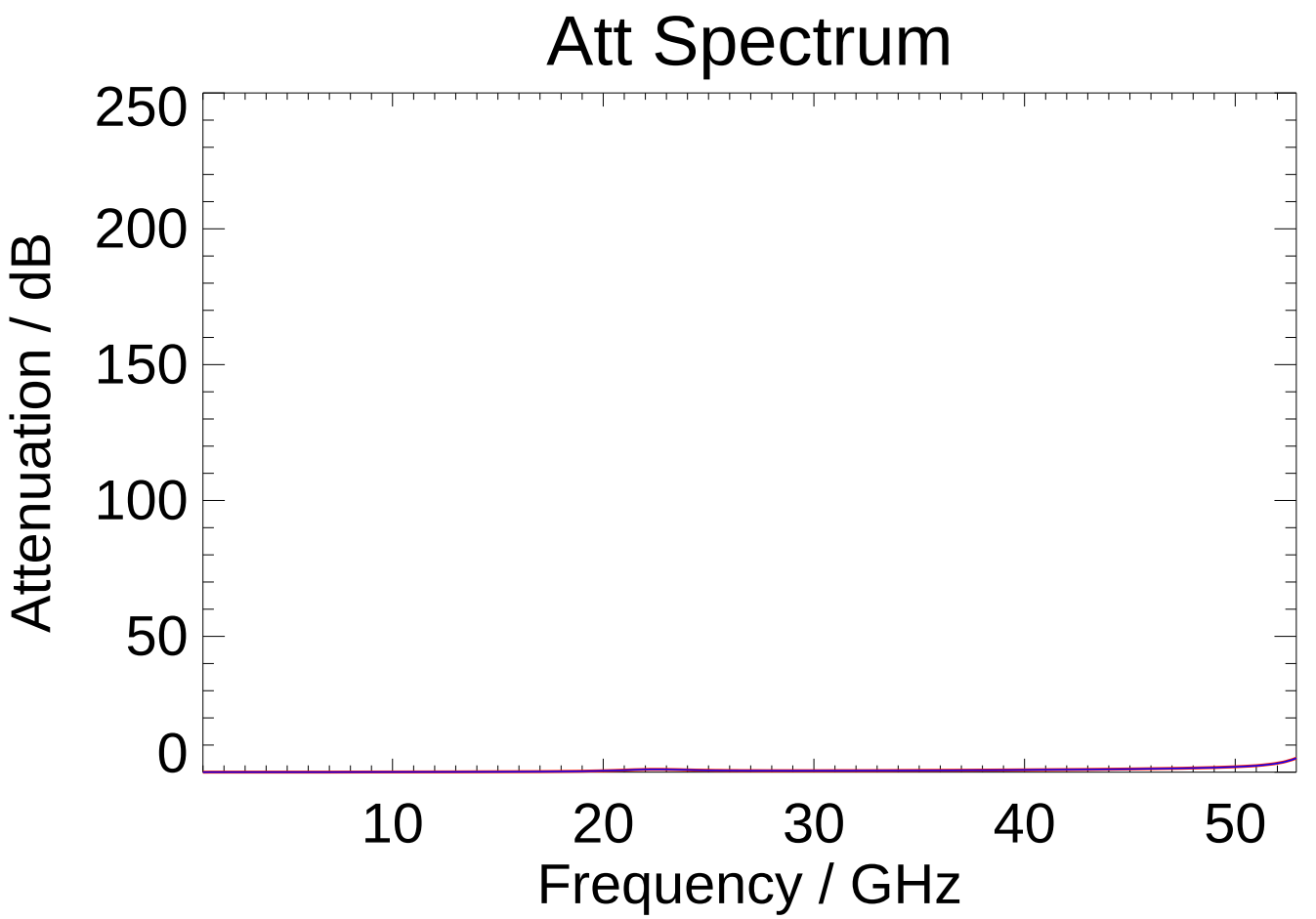
Frequency / GHz


Att Spectrum
Attenuation / dB
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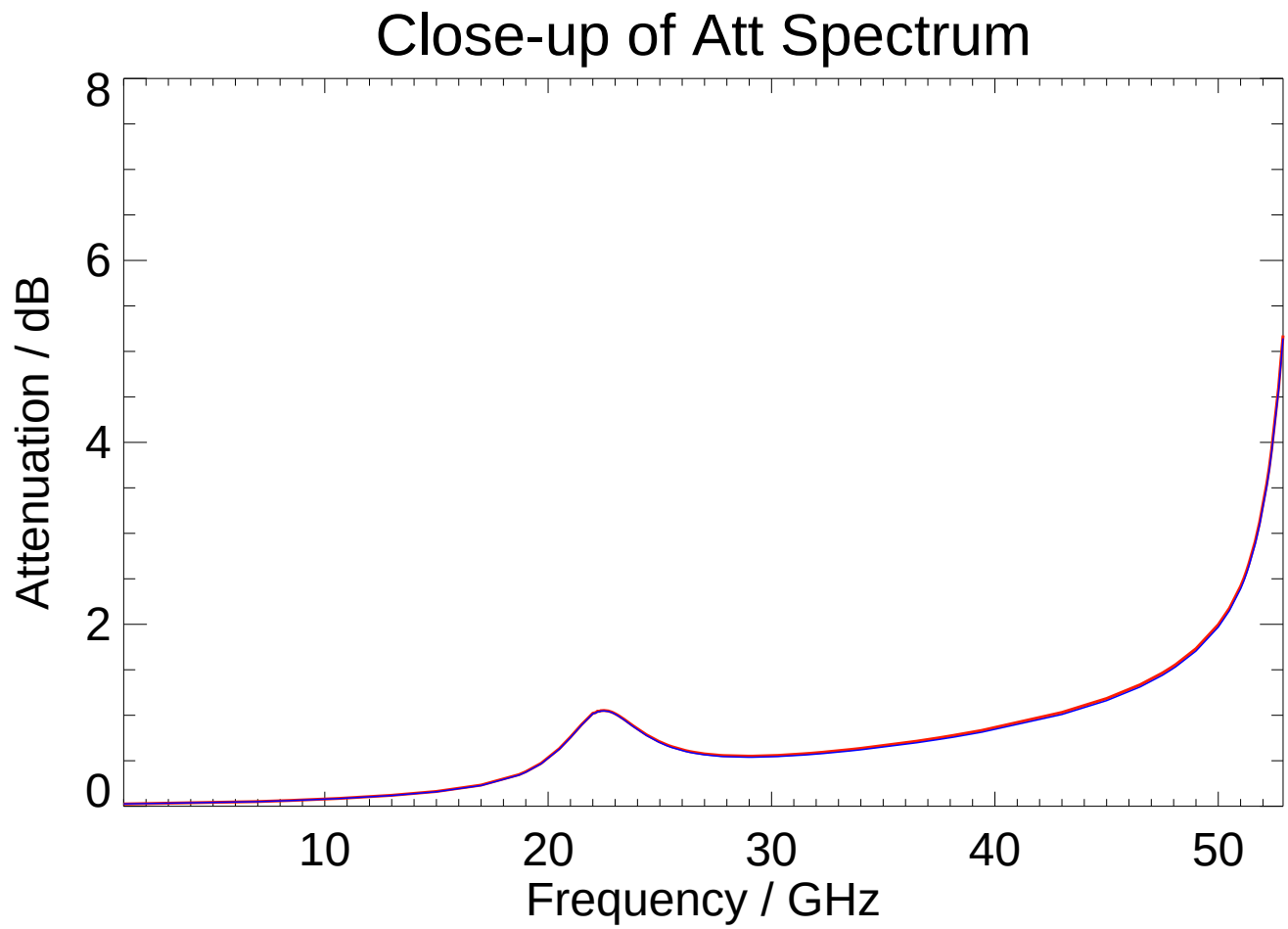
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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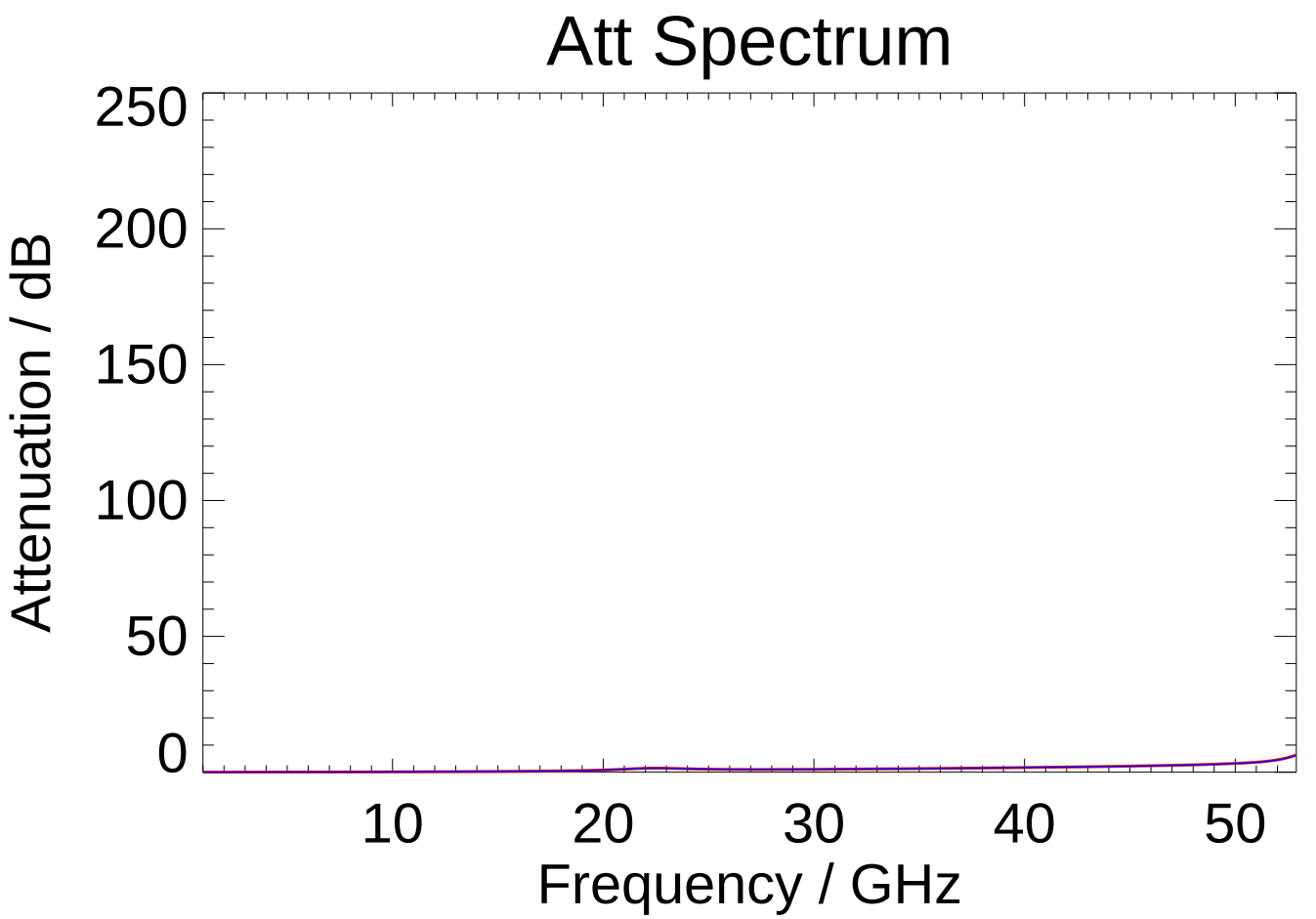
Frequency / GHz


Att Spectrum
Attenuation / dB
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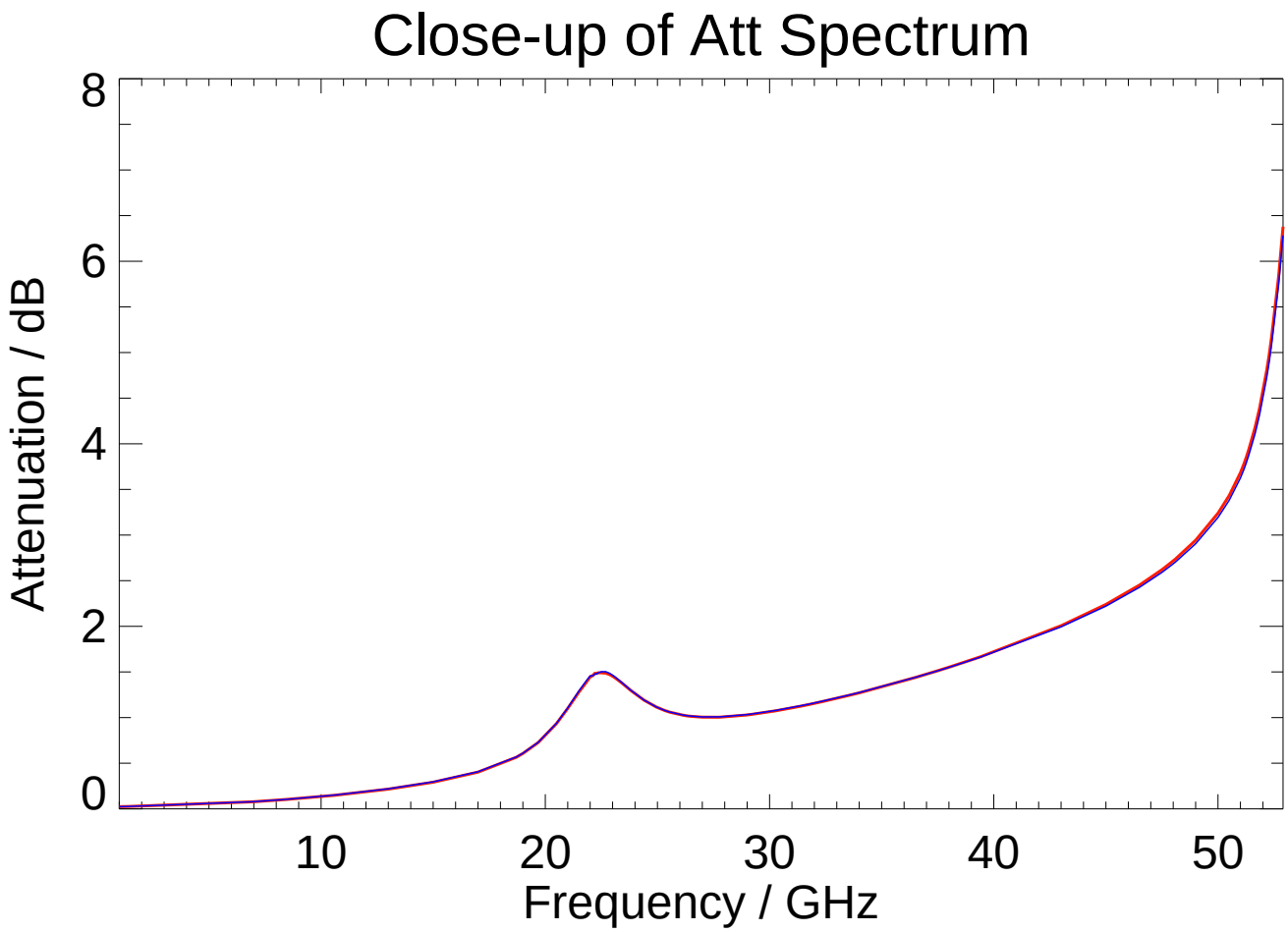
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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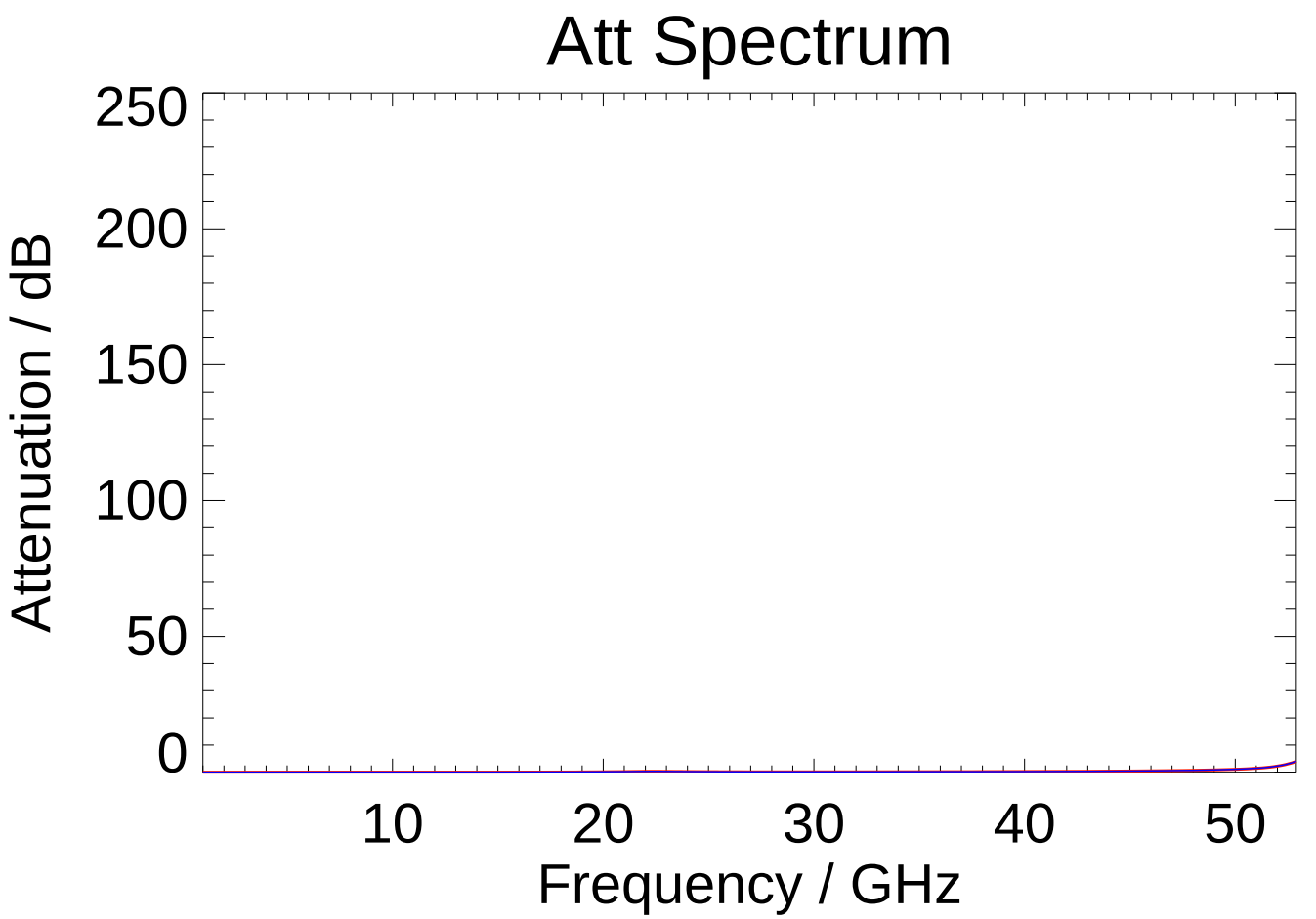
Frequency / GHz


Att Spectrum
Attenuation / dB
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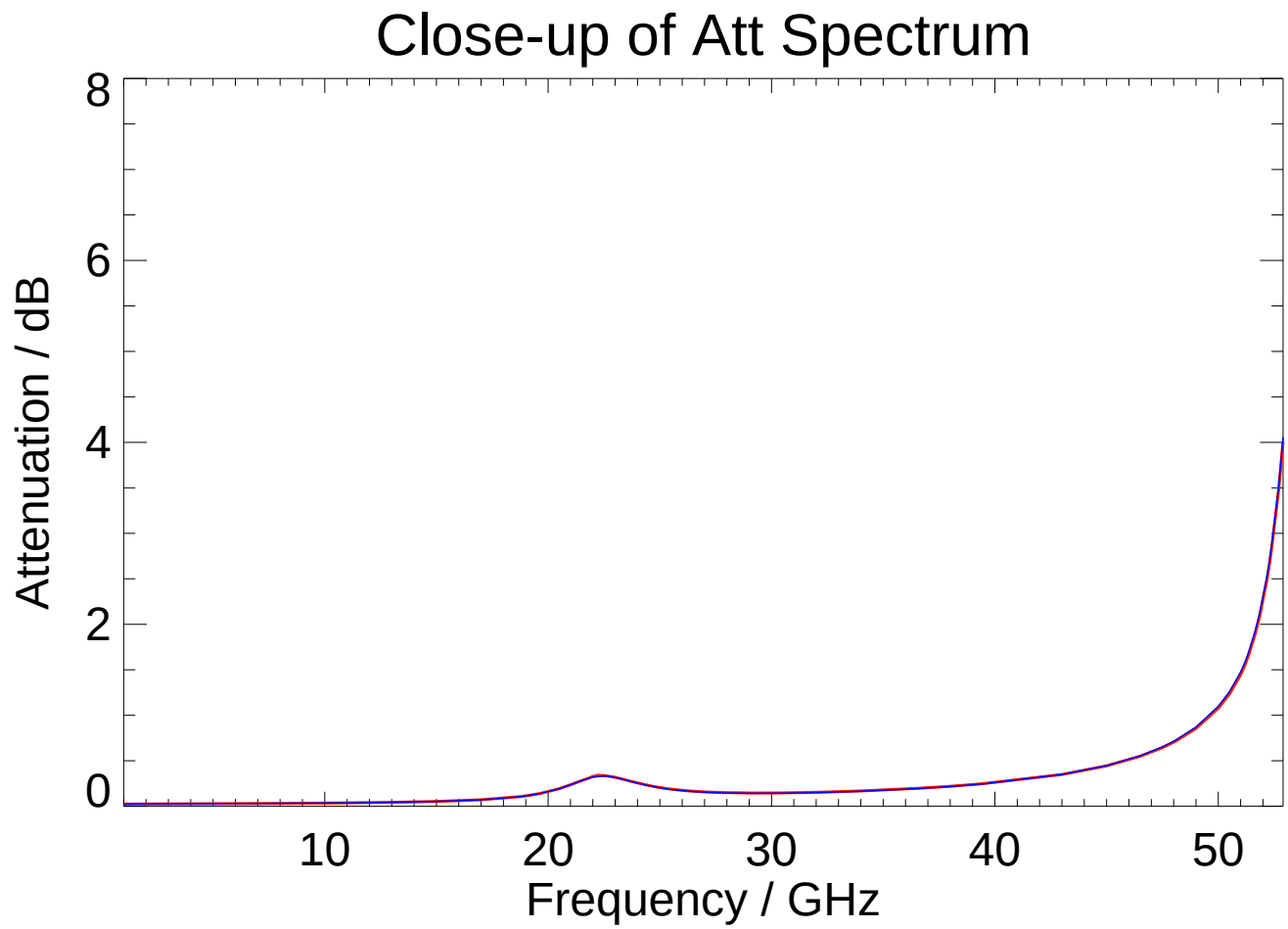
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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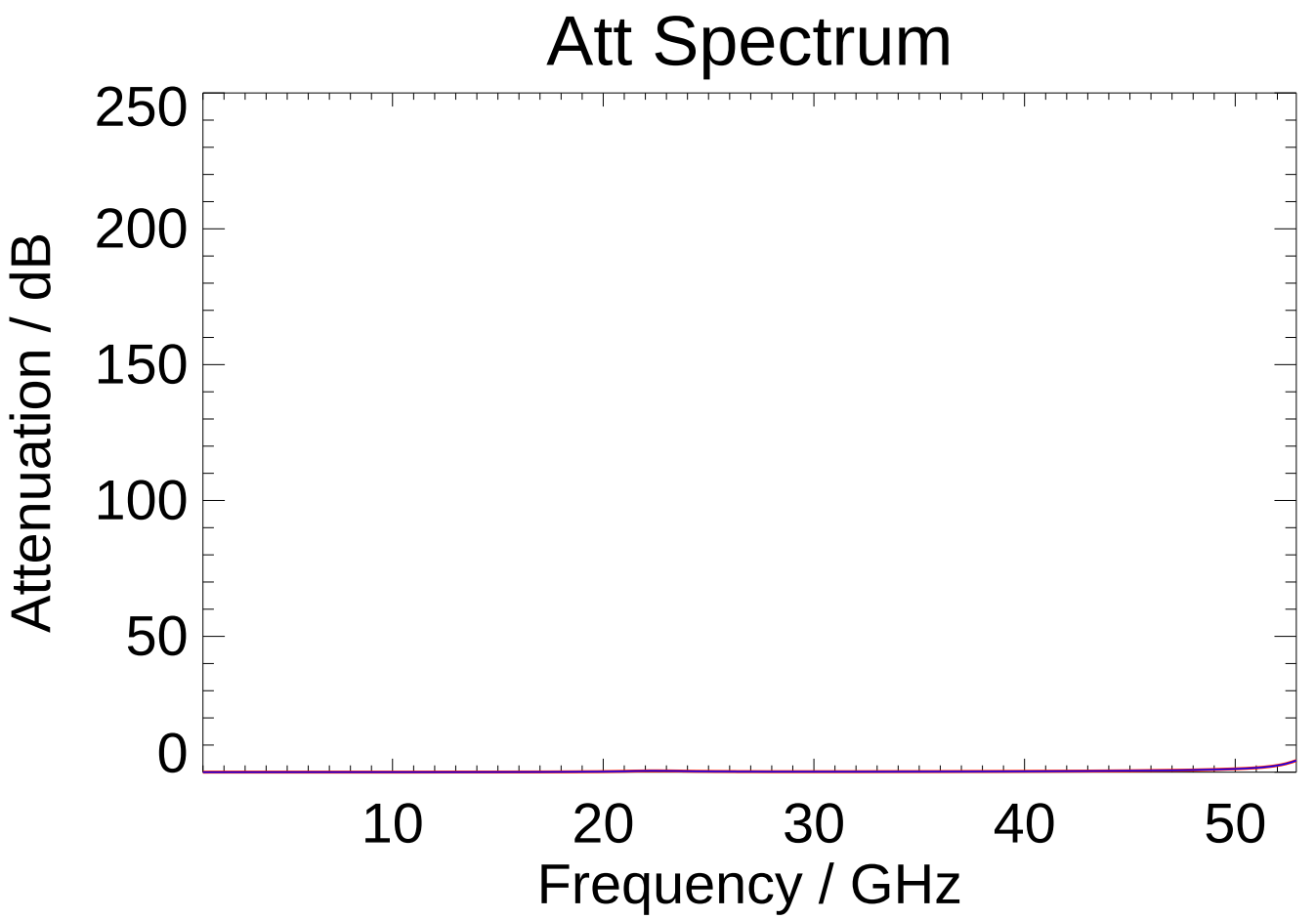
Frequency / GHz


Att Spectrum
Attenuation / dB
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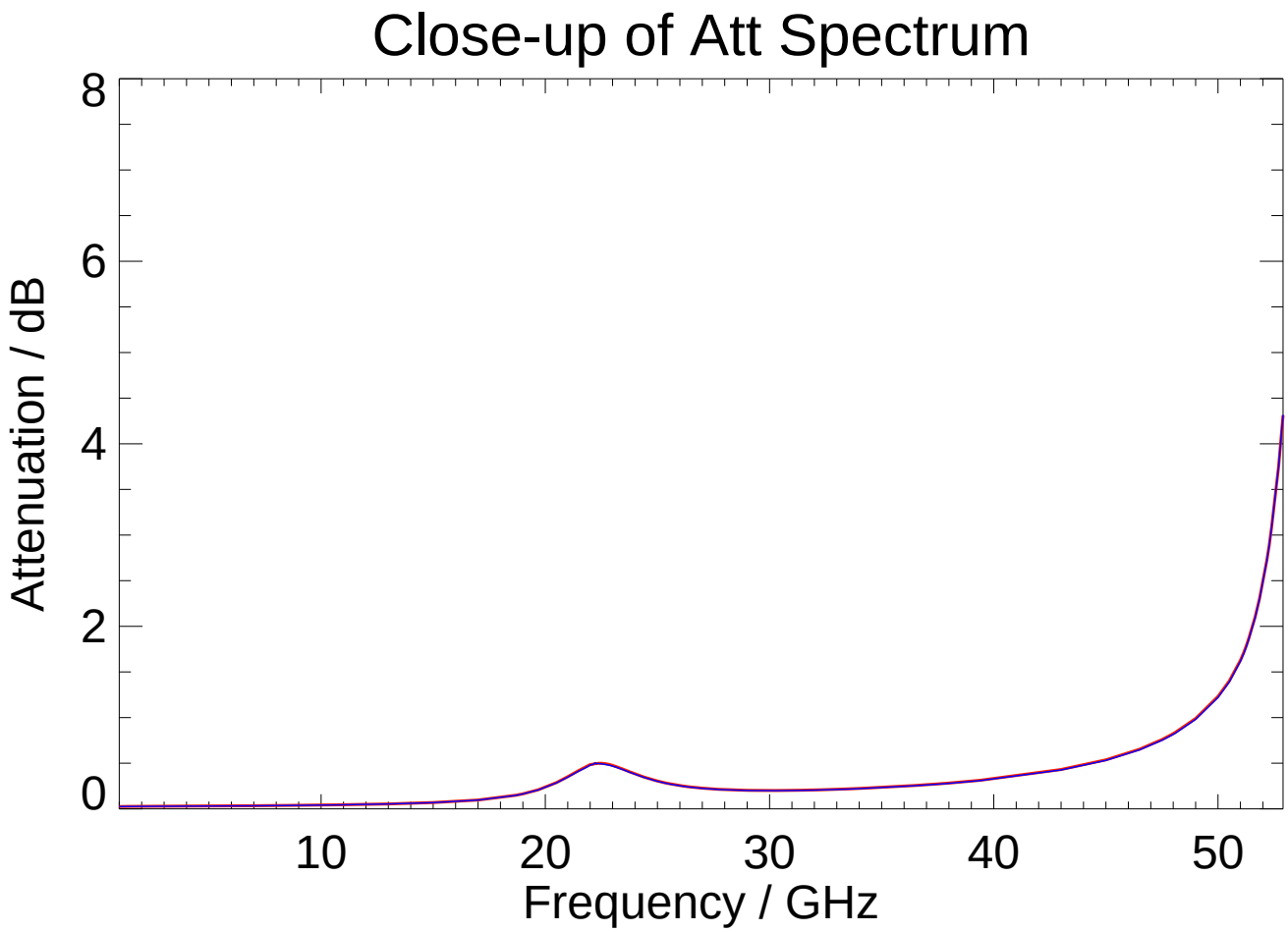
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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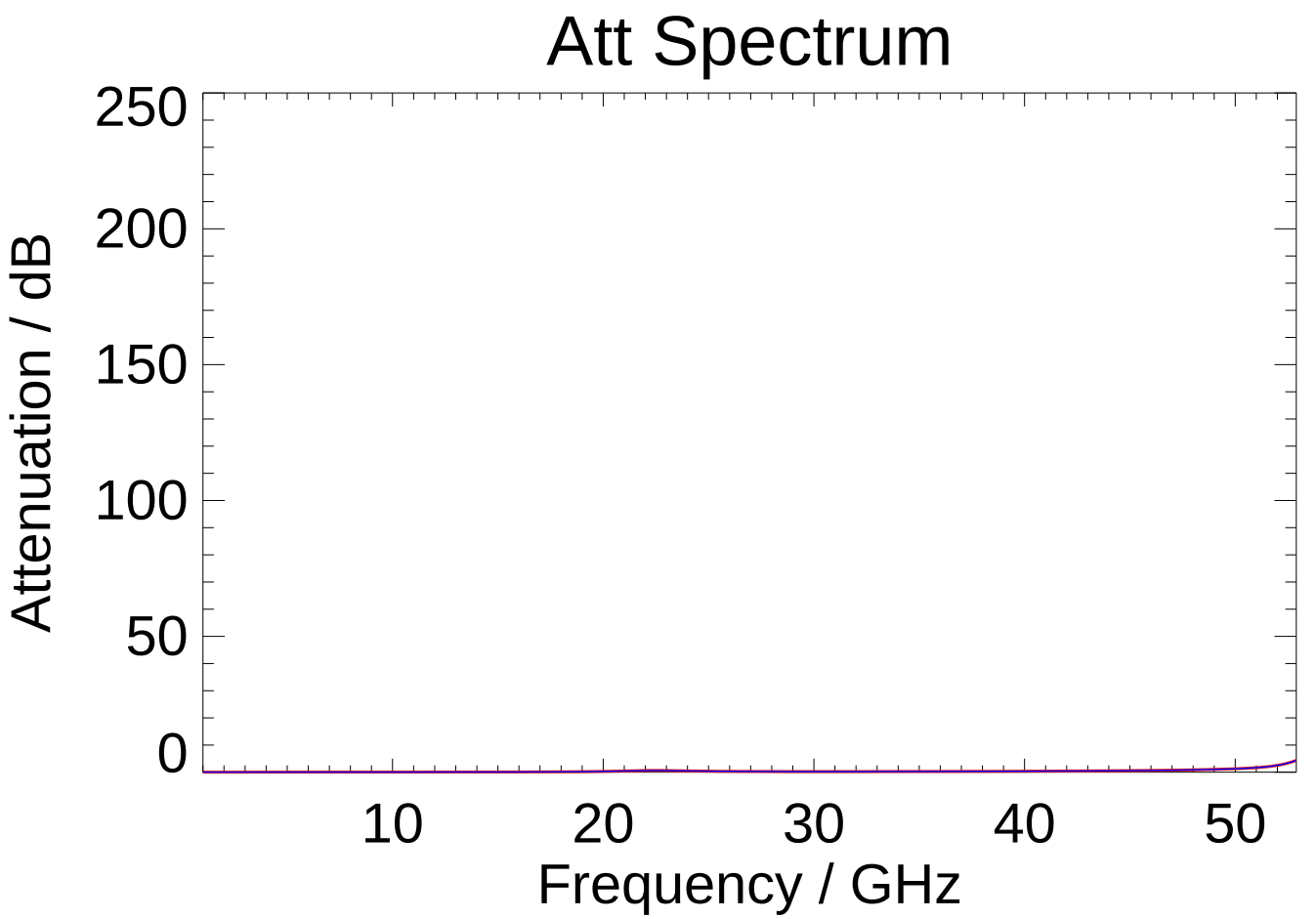
Frequency / GHz


Att Spectrum
Attenuation / dB
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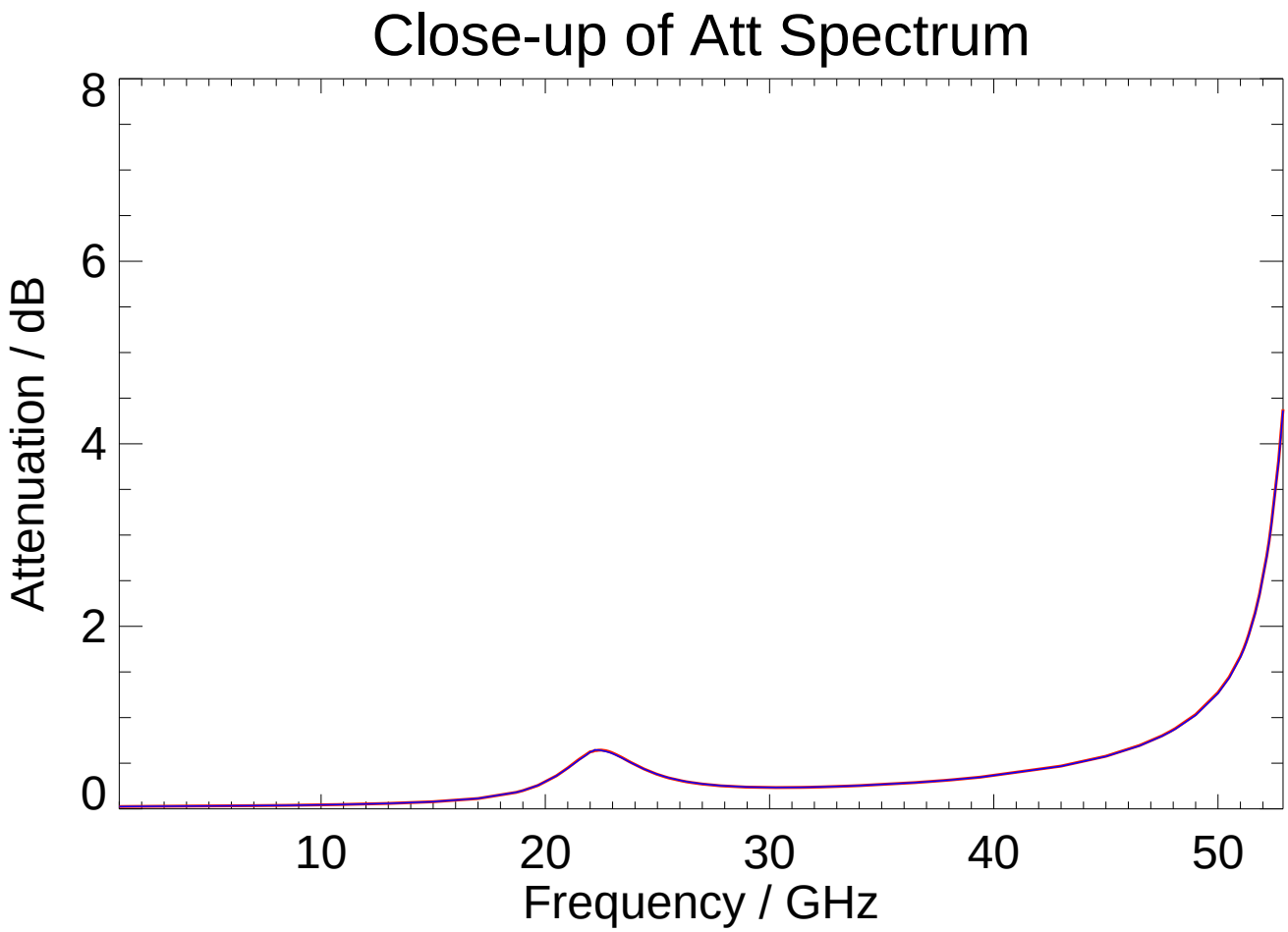
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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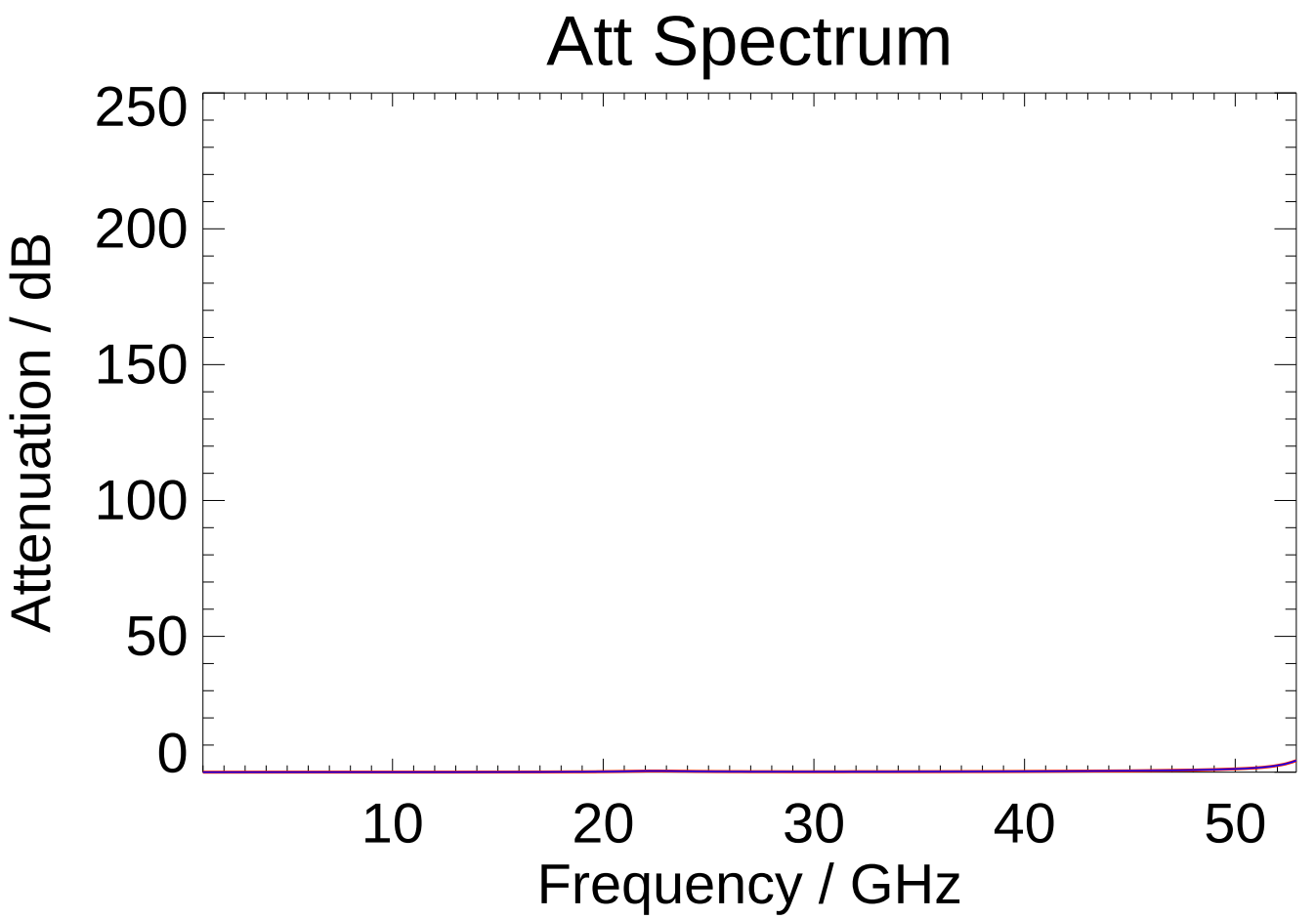
Frequency / GHz


Att Spectrum
Attenuation / dB
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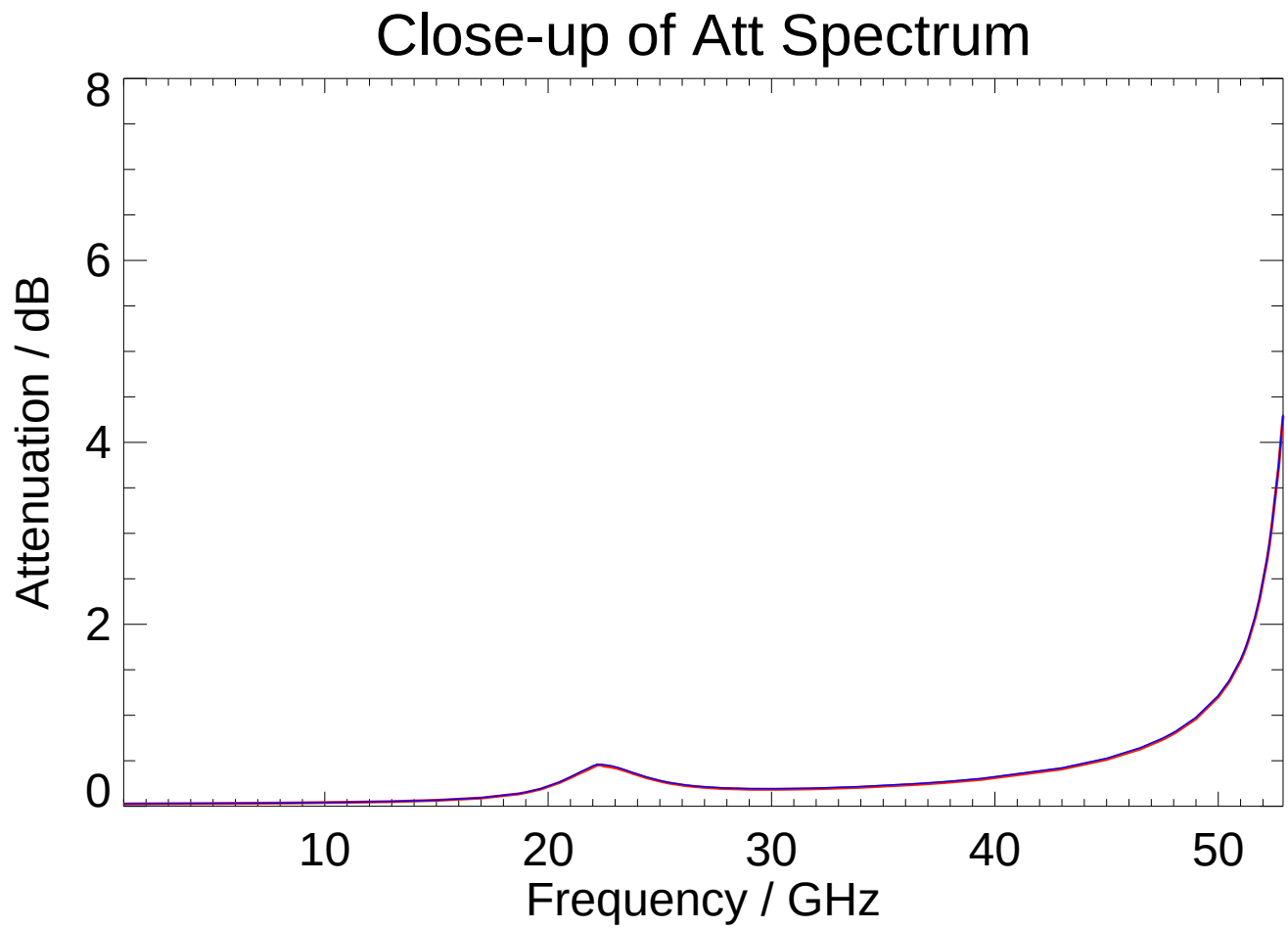
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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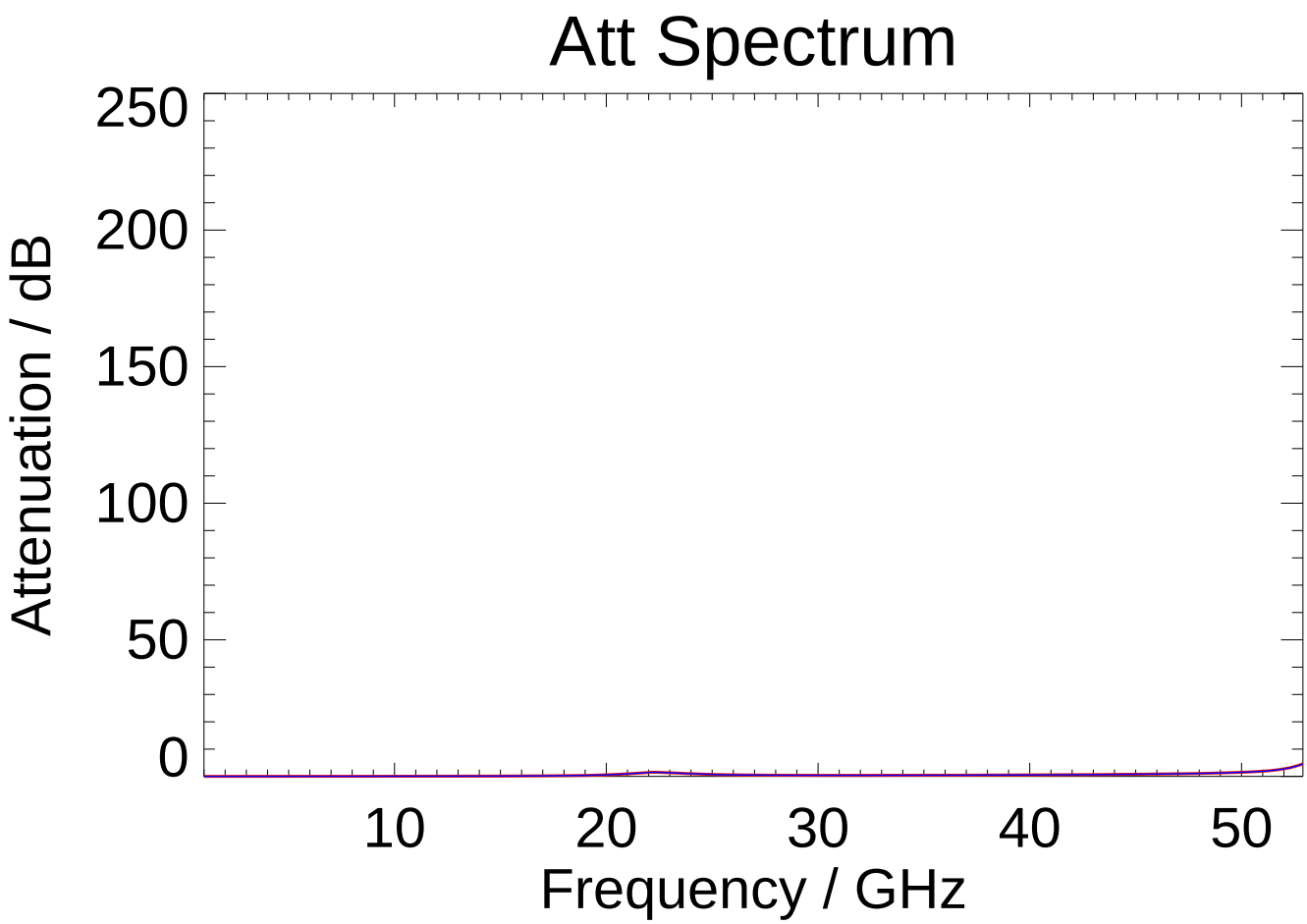
Frequency / GHz


Att Spectrum
Attenuation / dB
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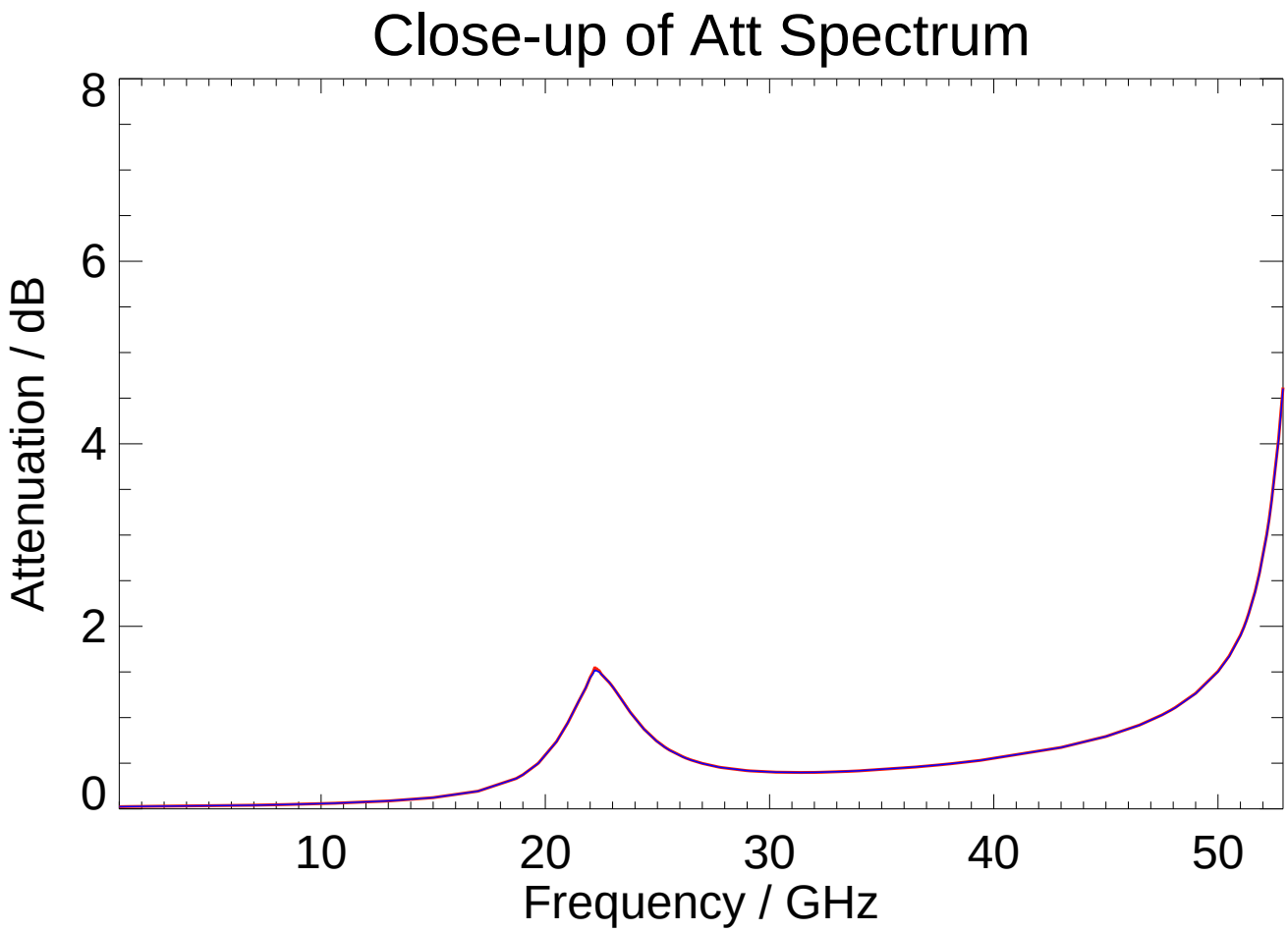
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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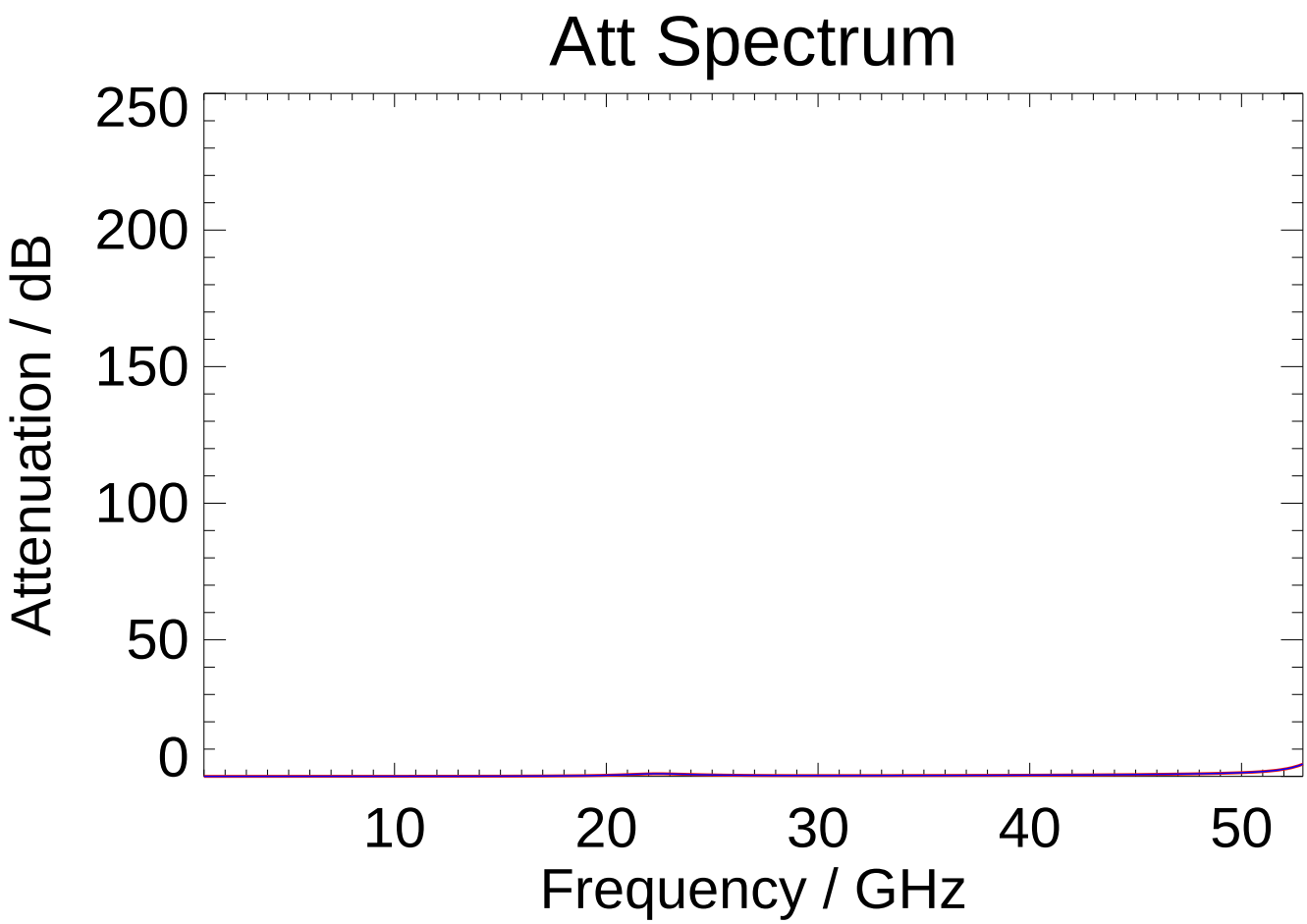
Frequency / GHz


Att Spectrum
Attenuation / dB
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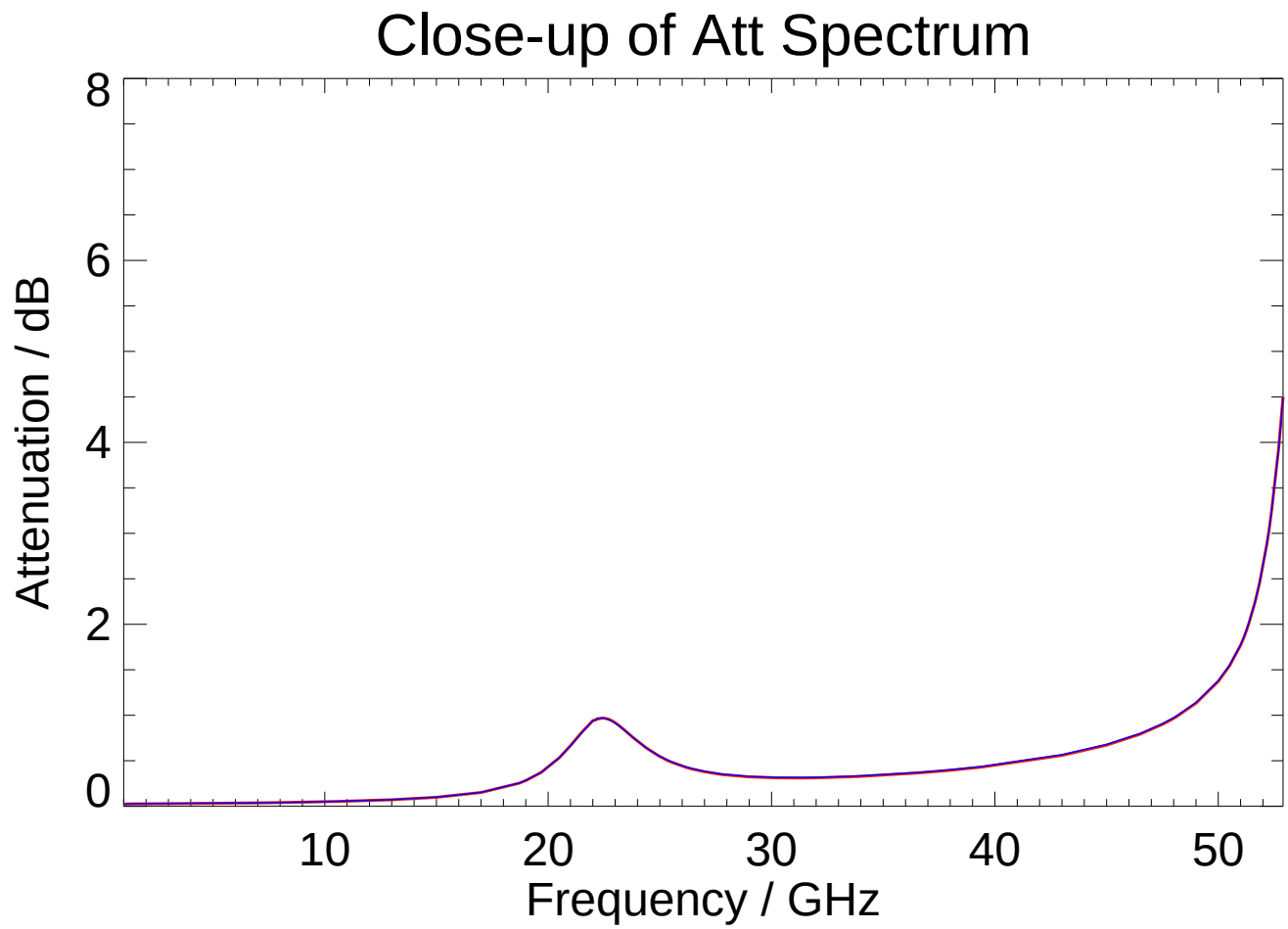
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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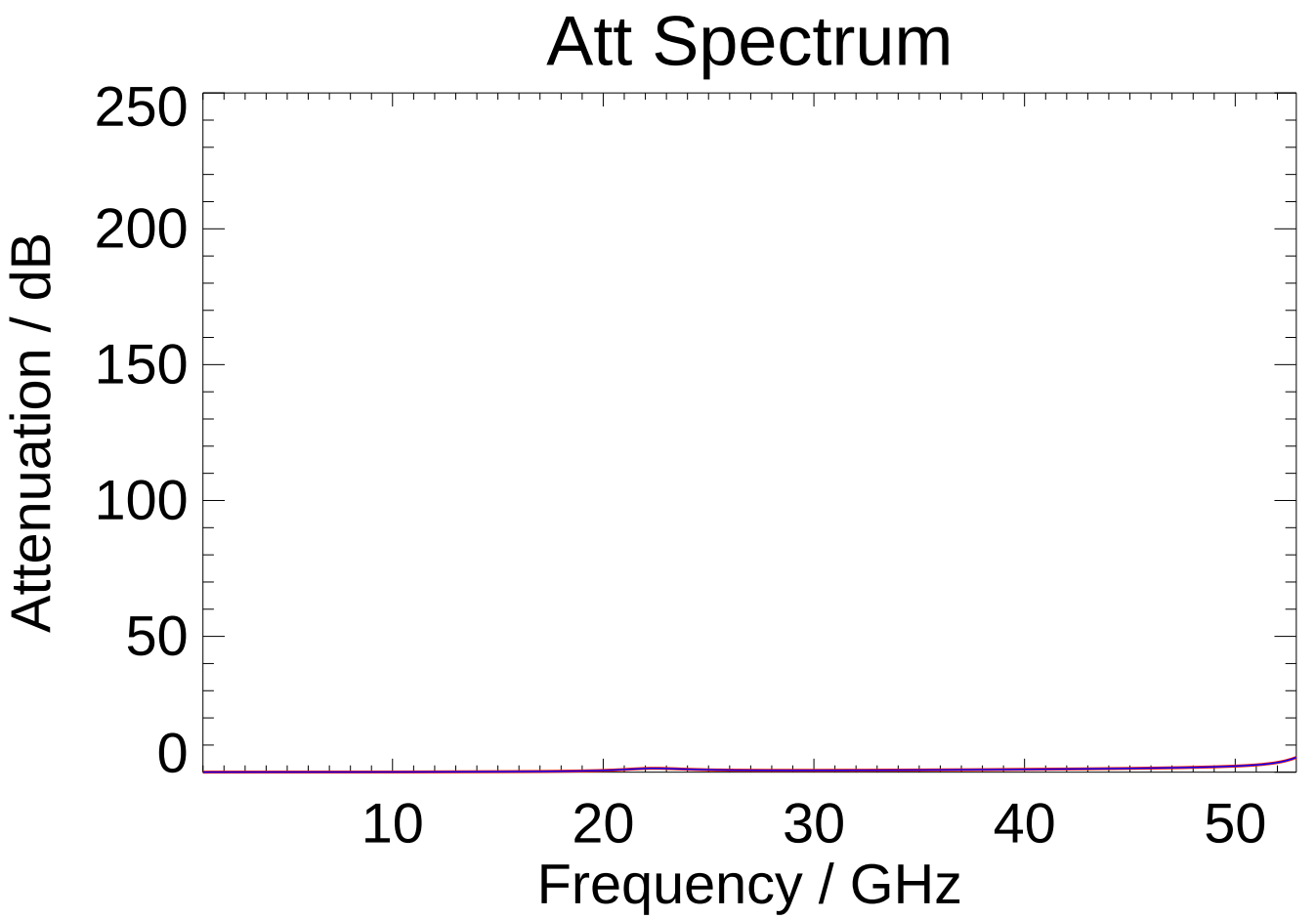
Frequency / GHz


Att Spectrum
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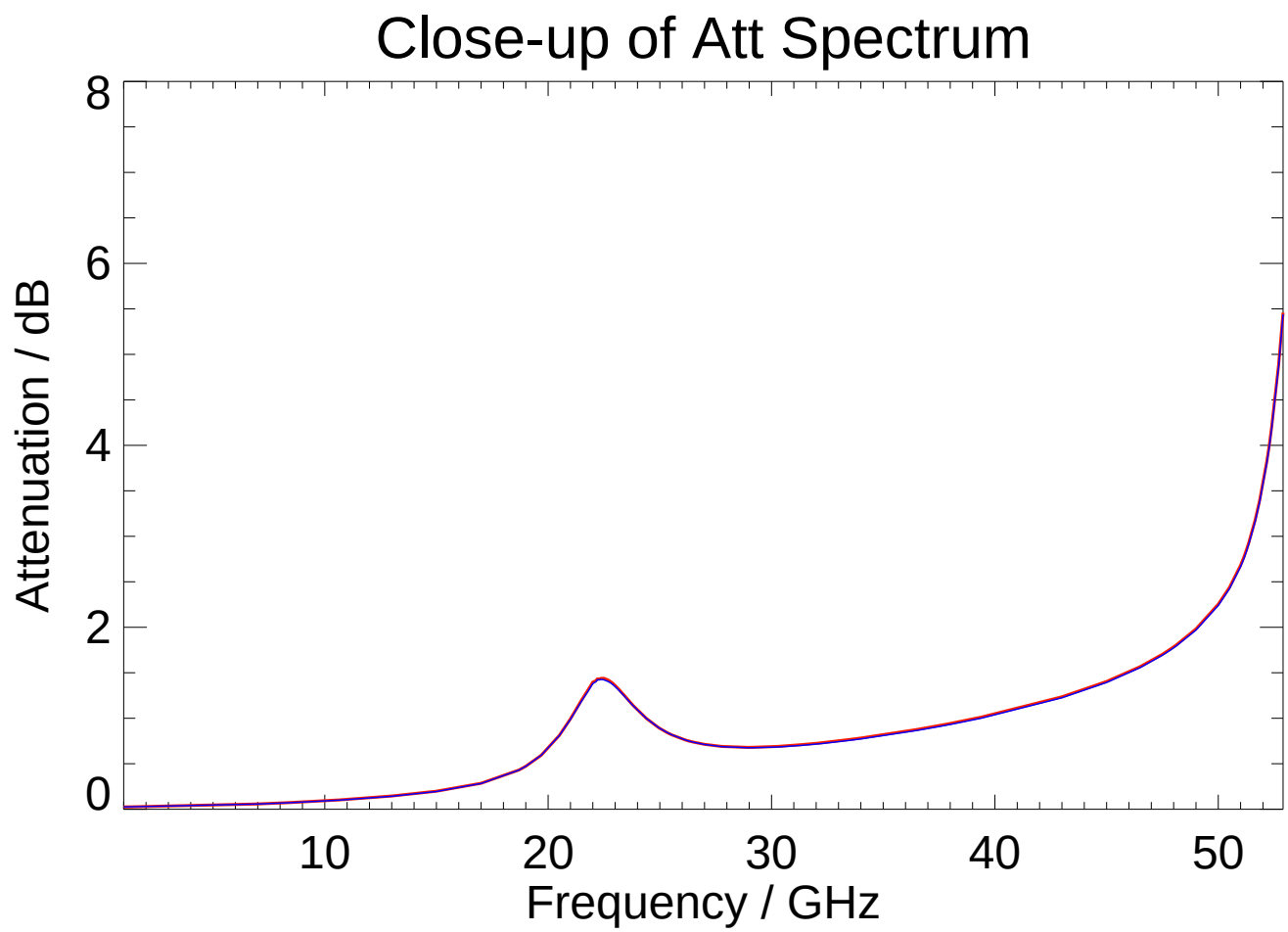
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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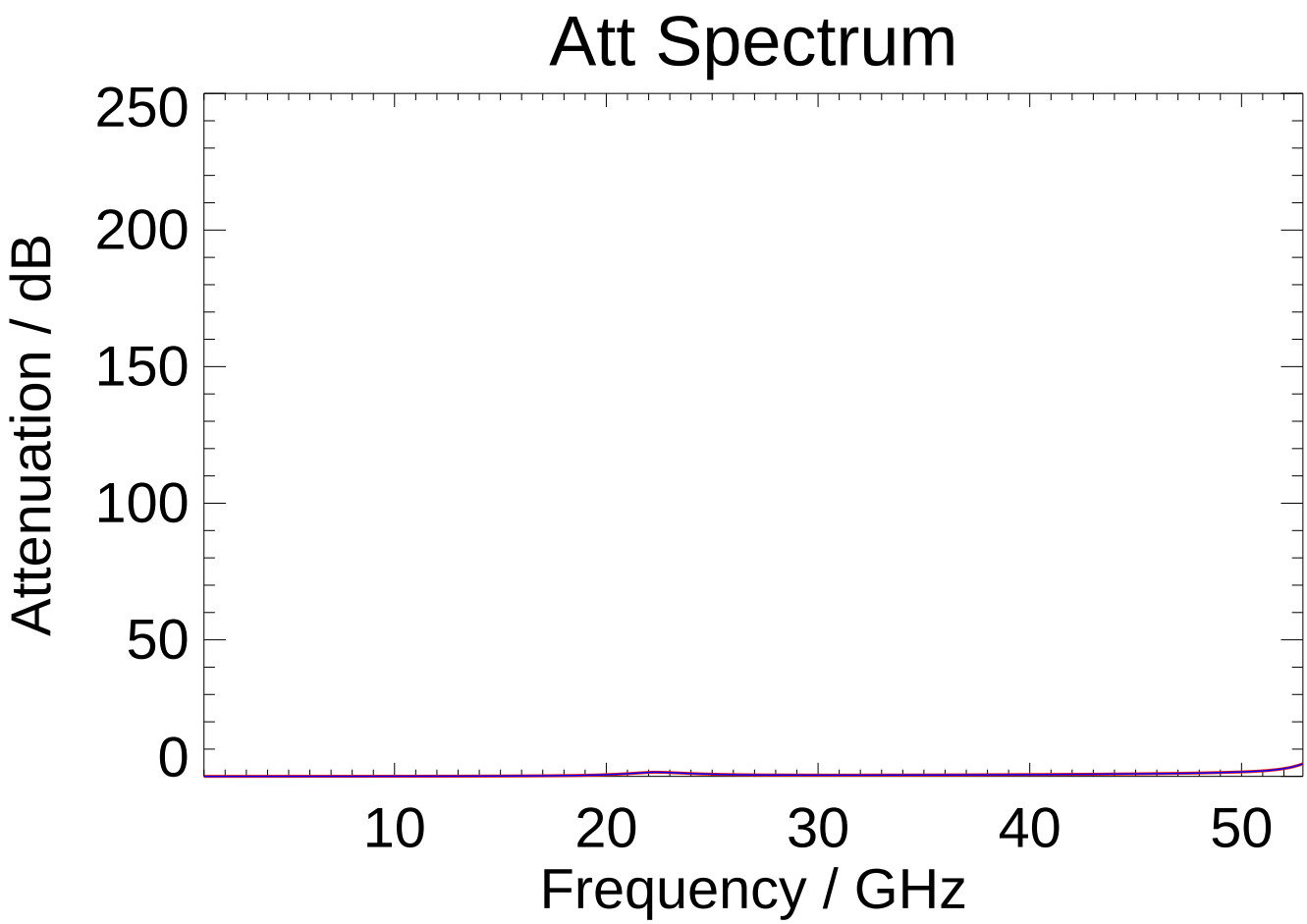
Frequency / GHz


Att Spectrum
Attenuation / dB
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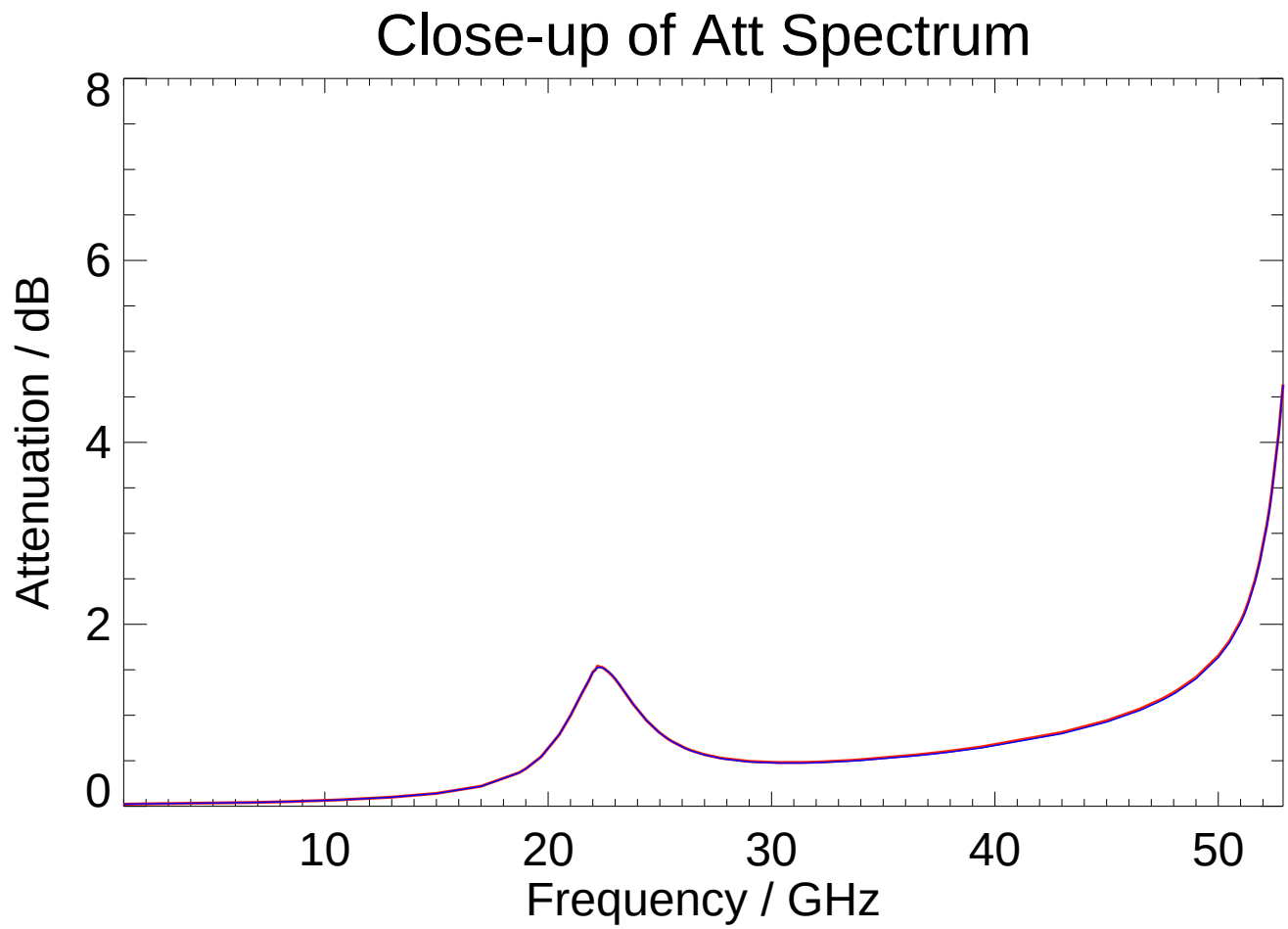
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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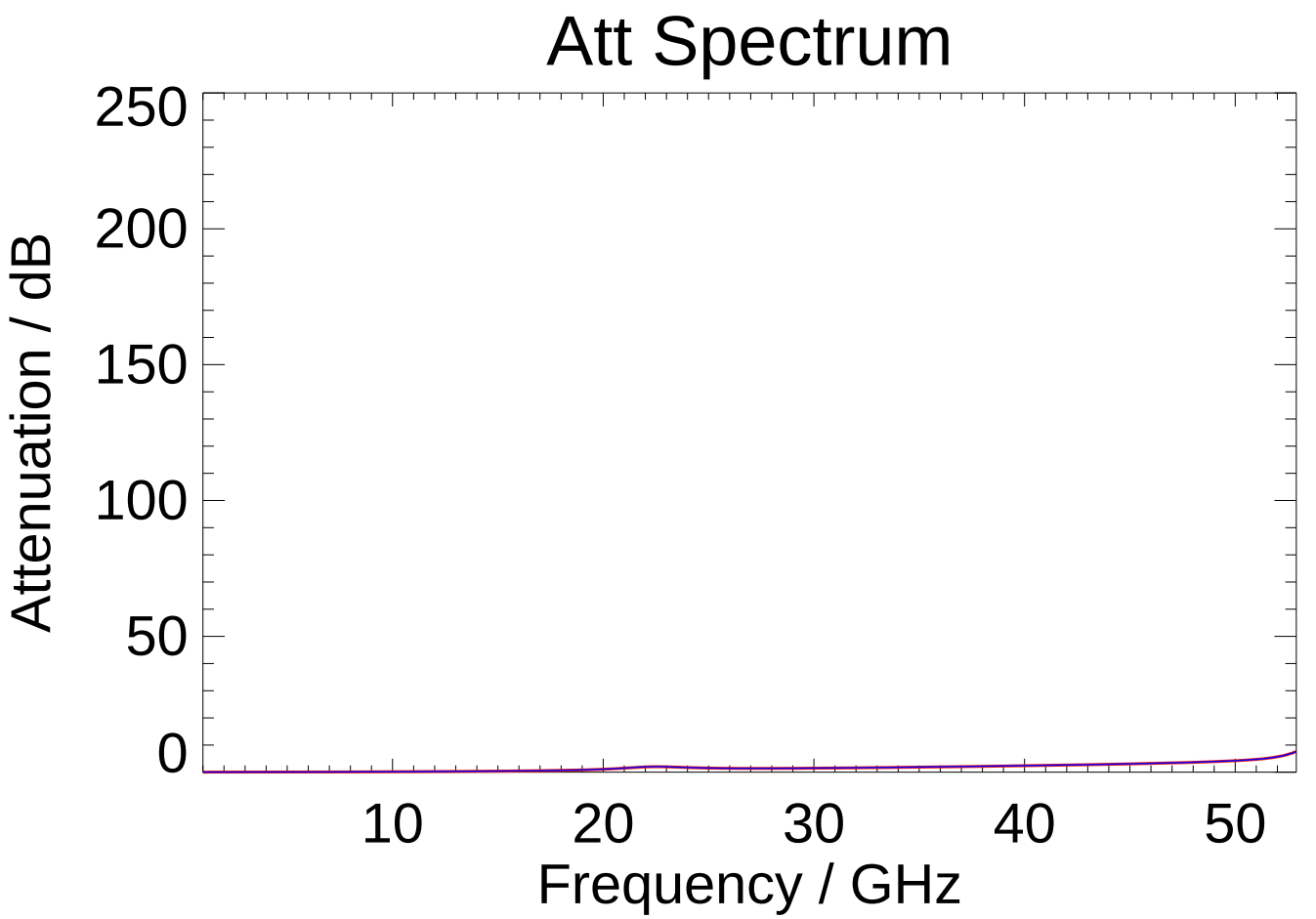
Frequency / GHz


Att Spectrum
Attenuation / dB
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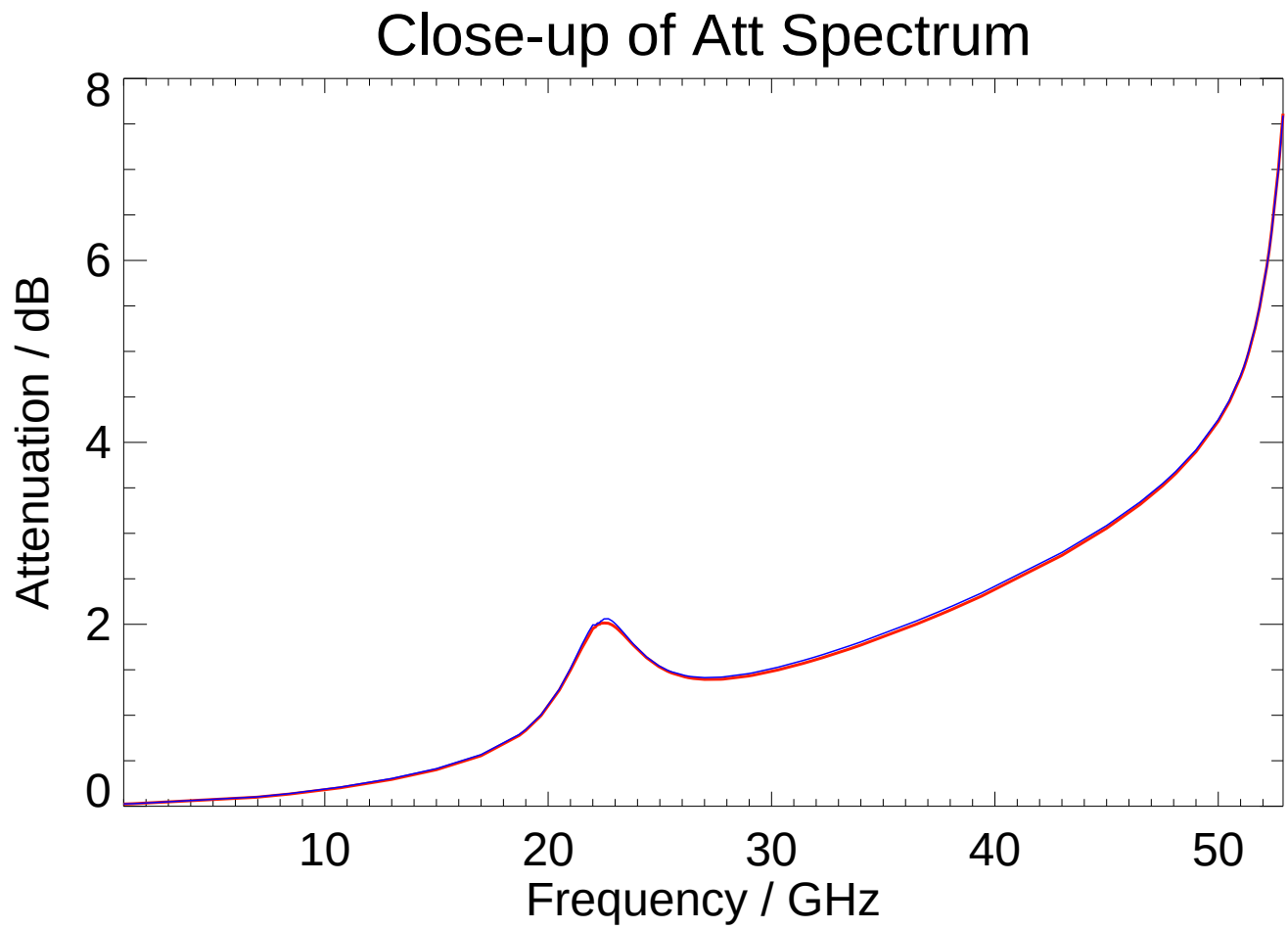
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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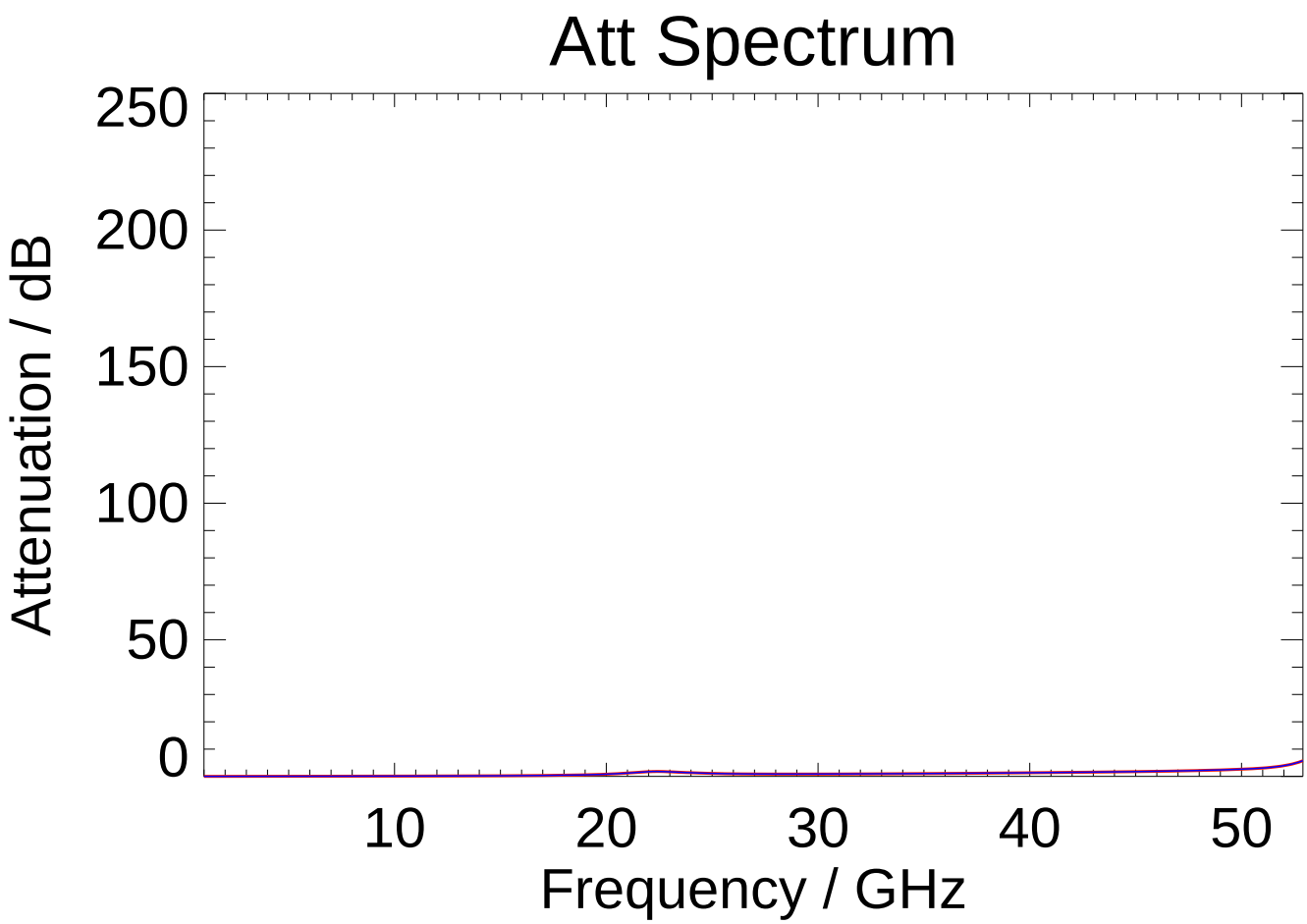
Frequency / GHz


Att Spectrum
Attenuation / dB
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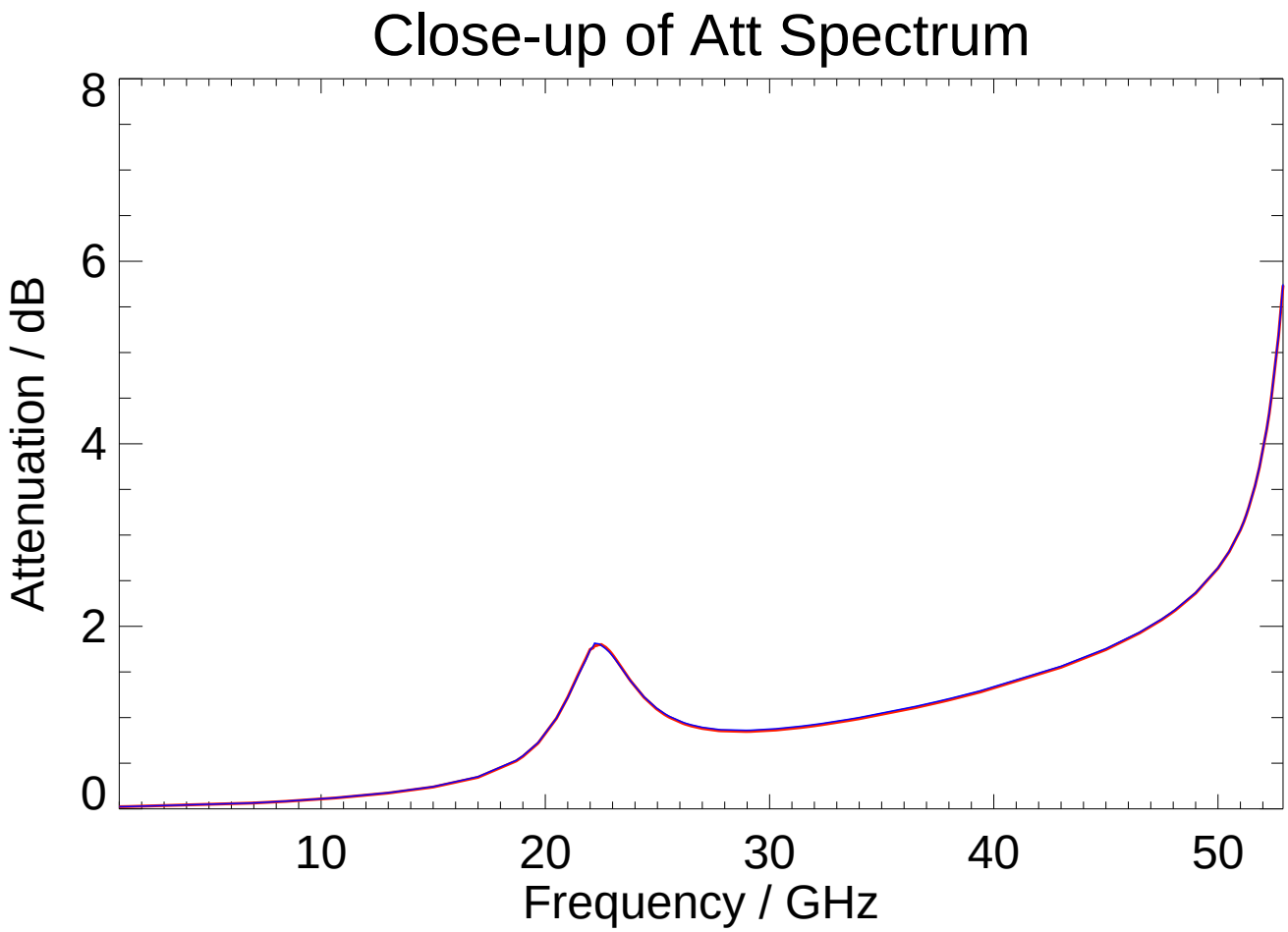
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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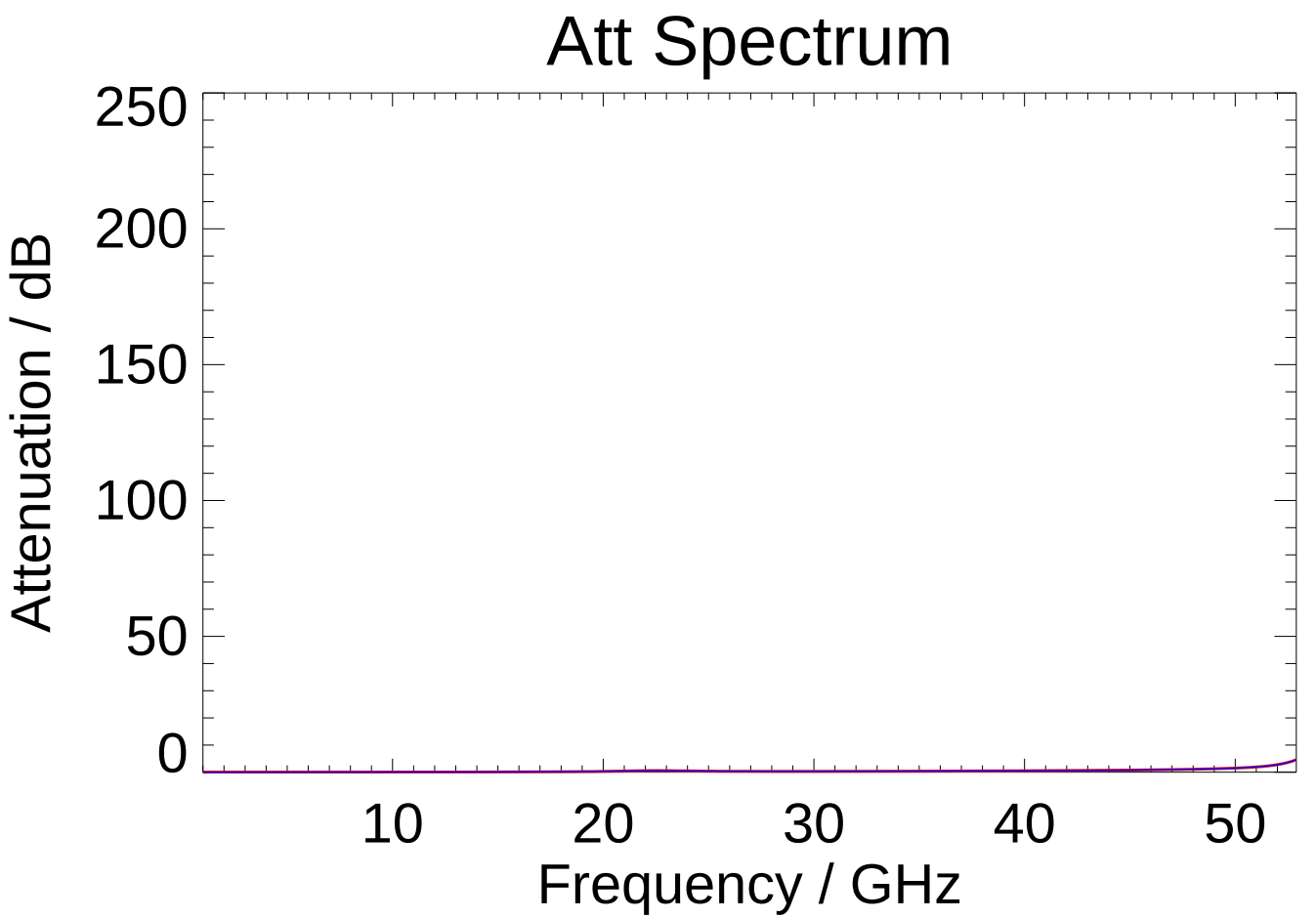
Frequency / GHz


Att Spectrum
Attenuation / dB
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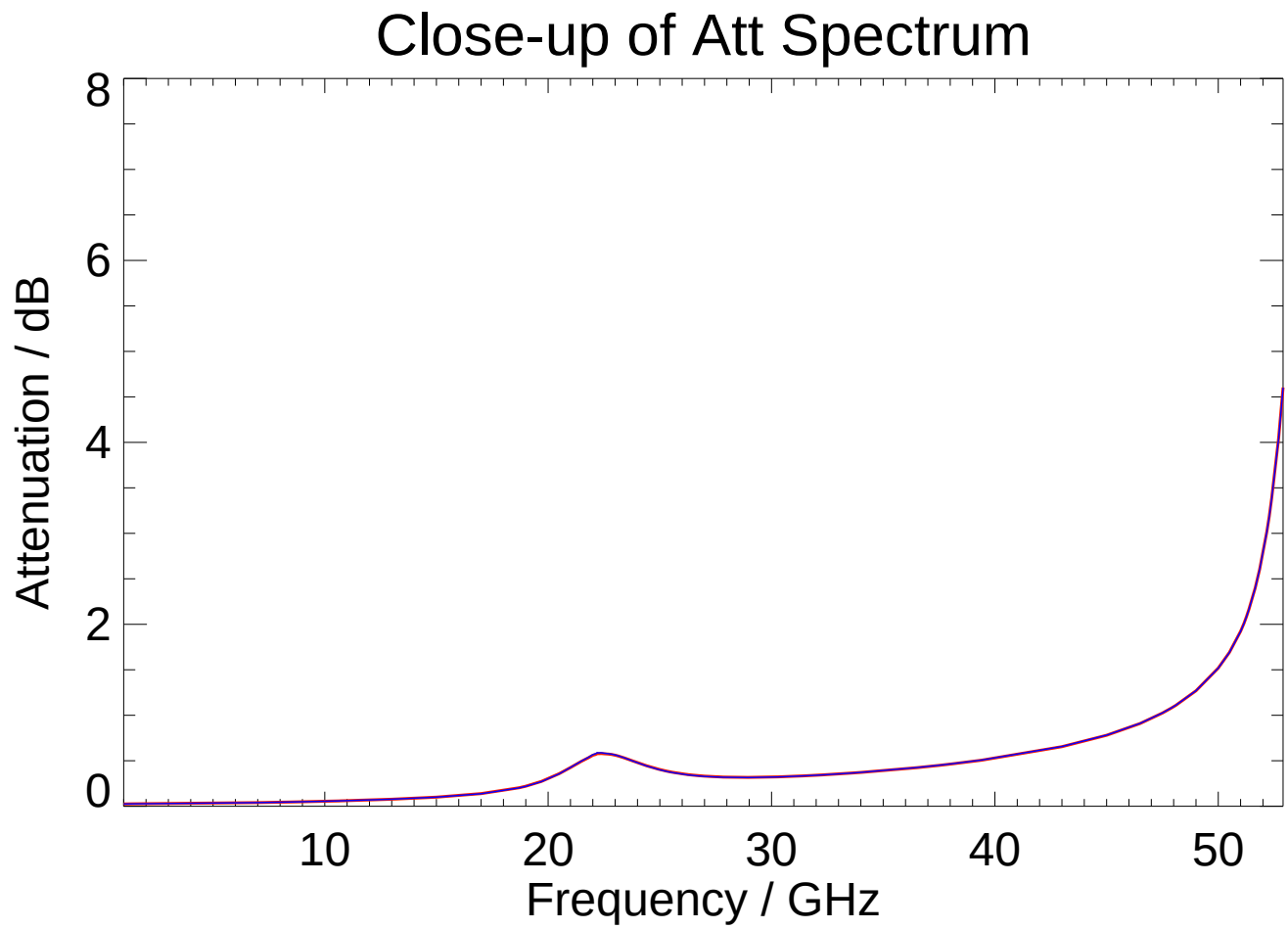
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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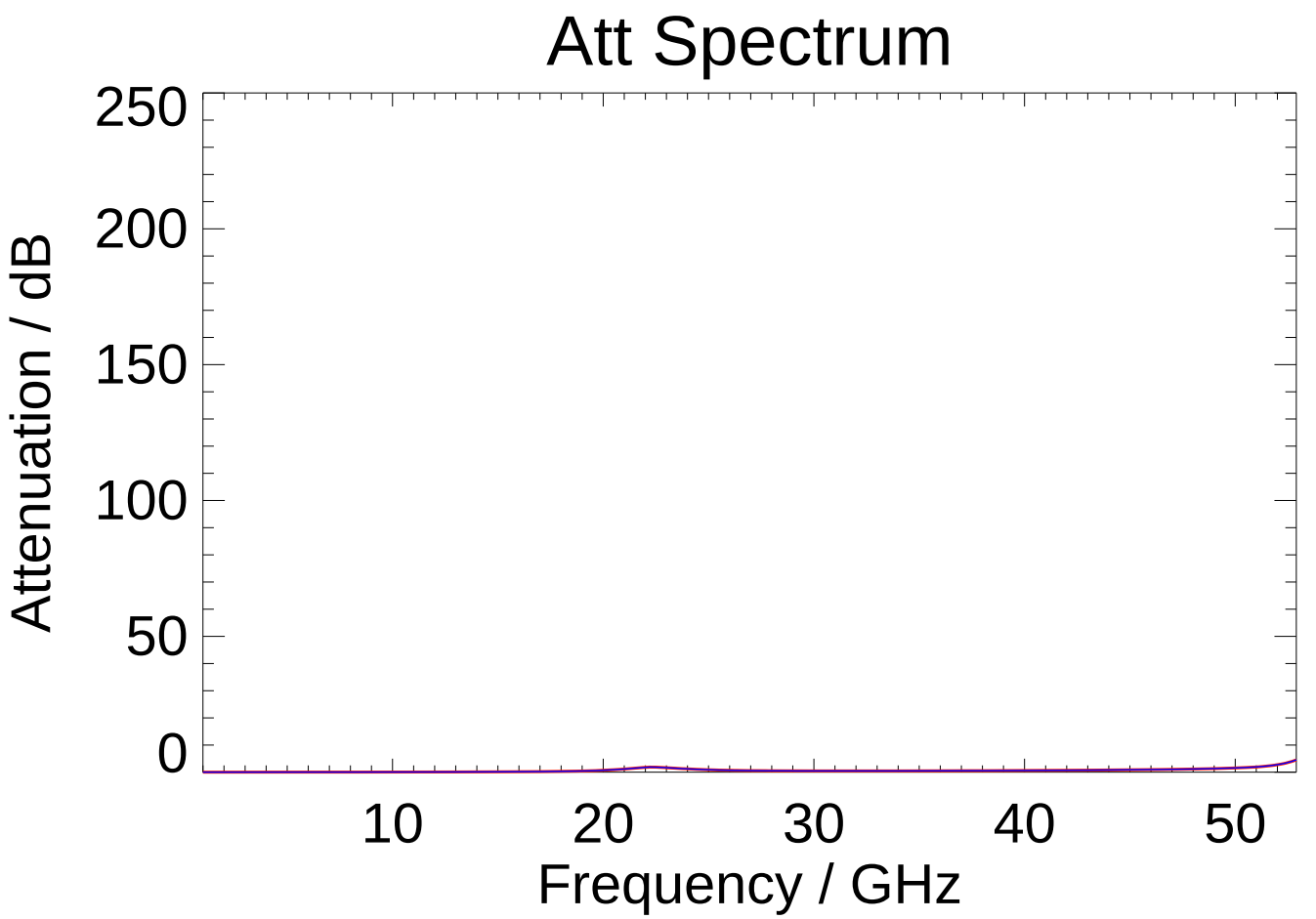
Frequency / GHz


Att Spectrum
Attenuation / dB
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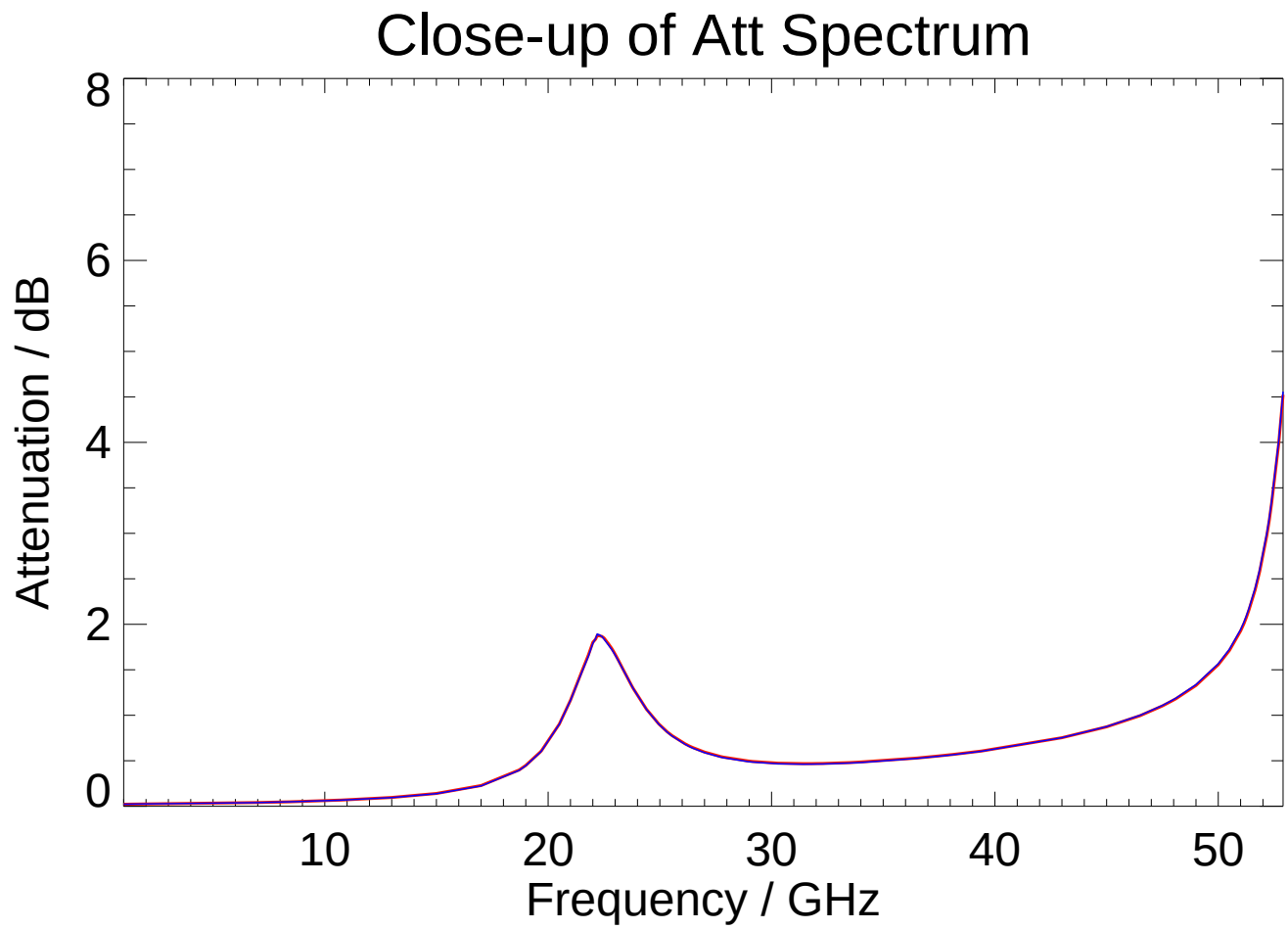
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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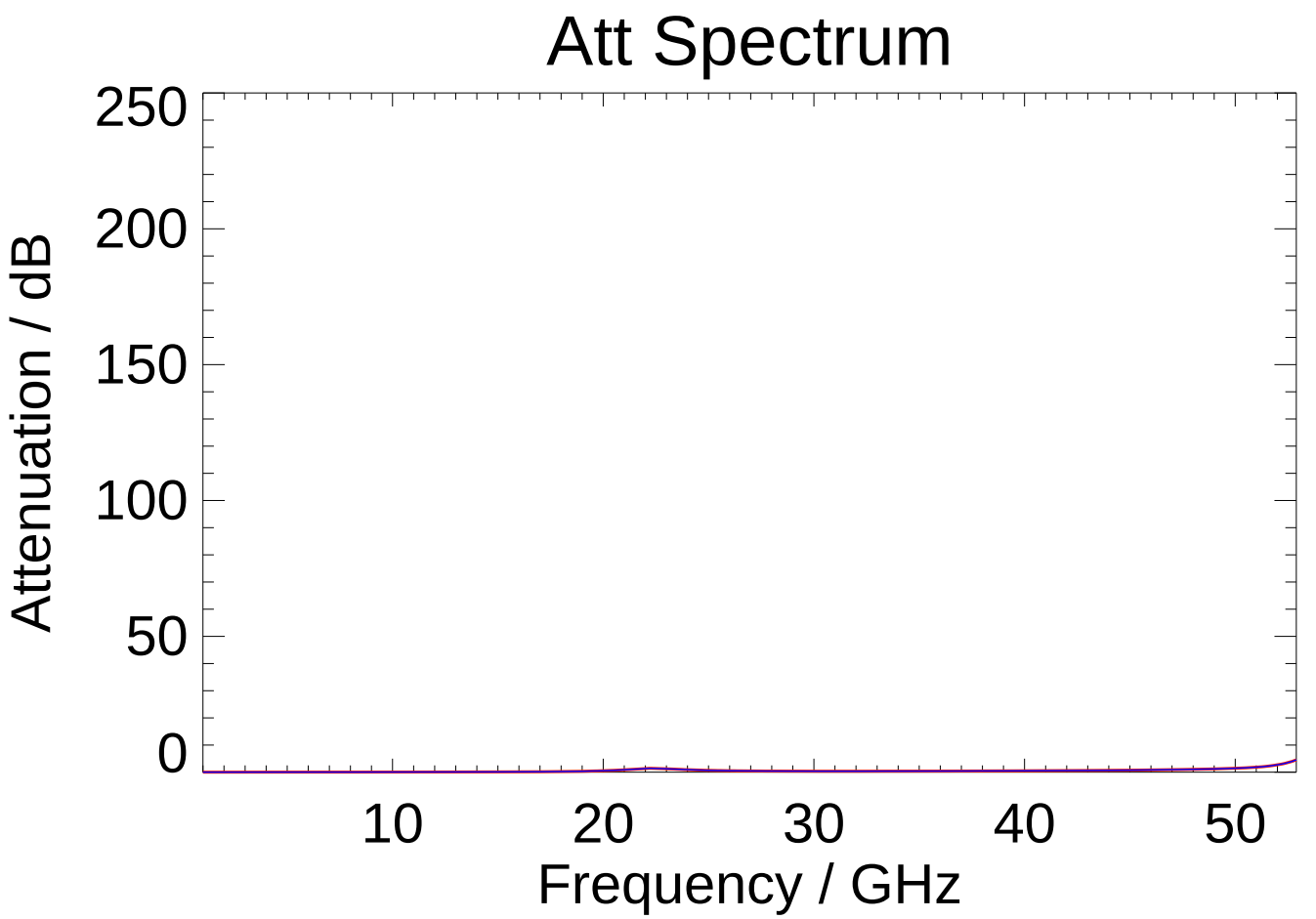
Frequency / GHz


Att Spectrum
Attenuation / dB
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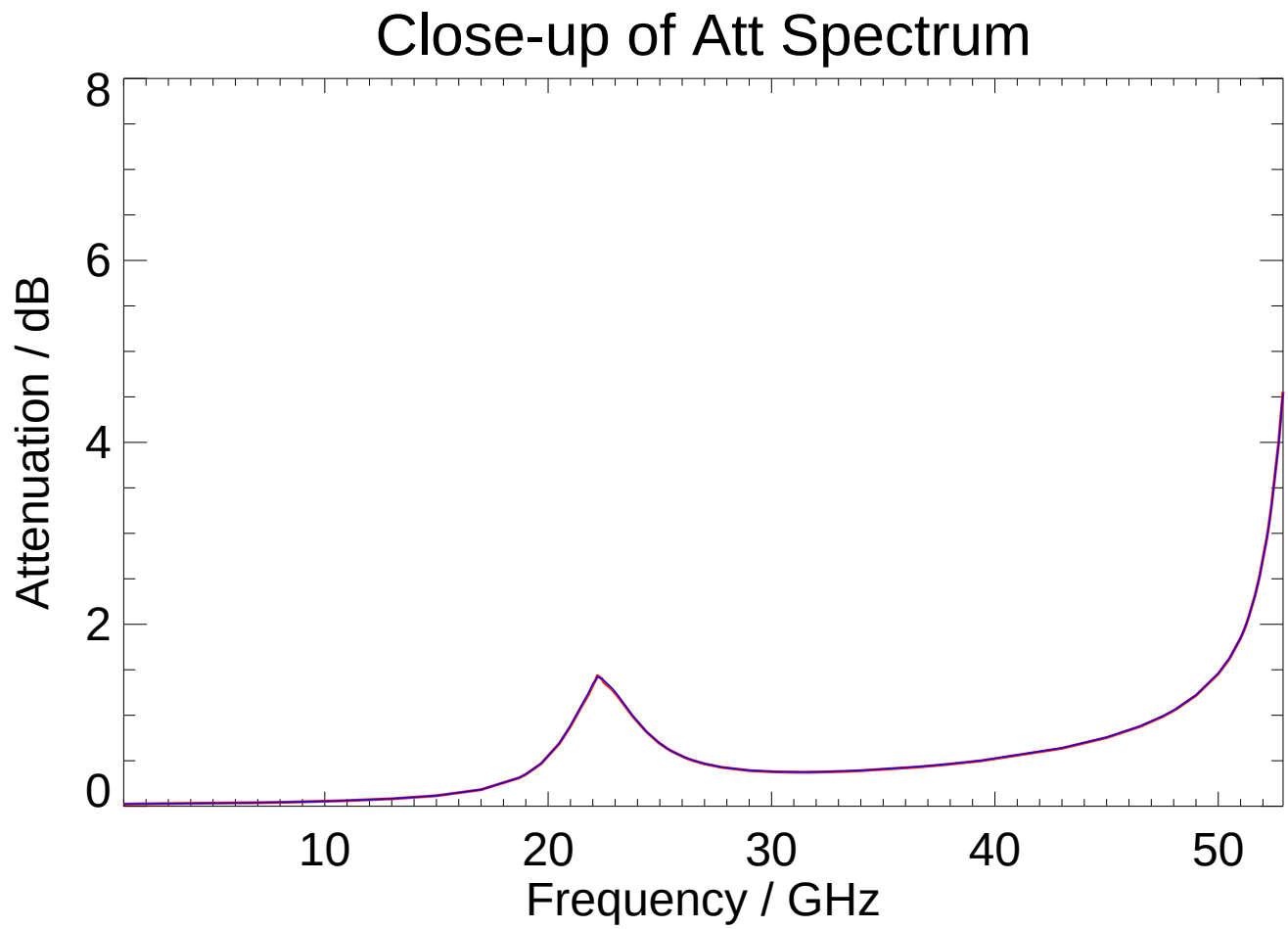
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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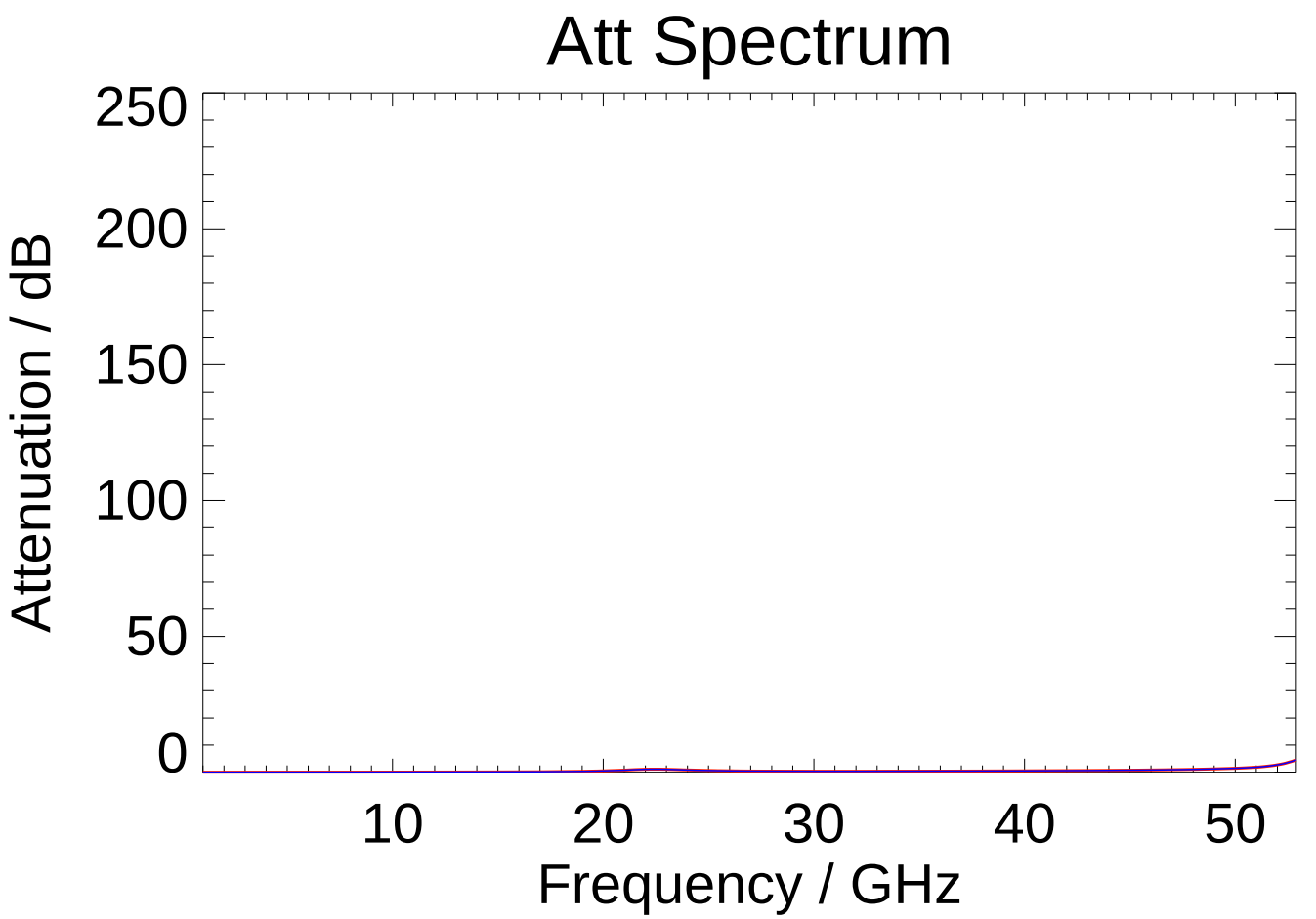
Frequency / GHz


Att Spectrum
Attenuation / dB
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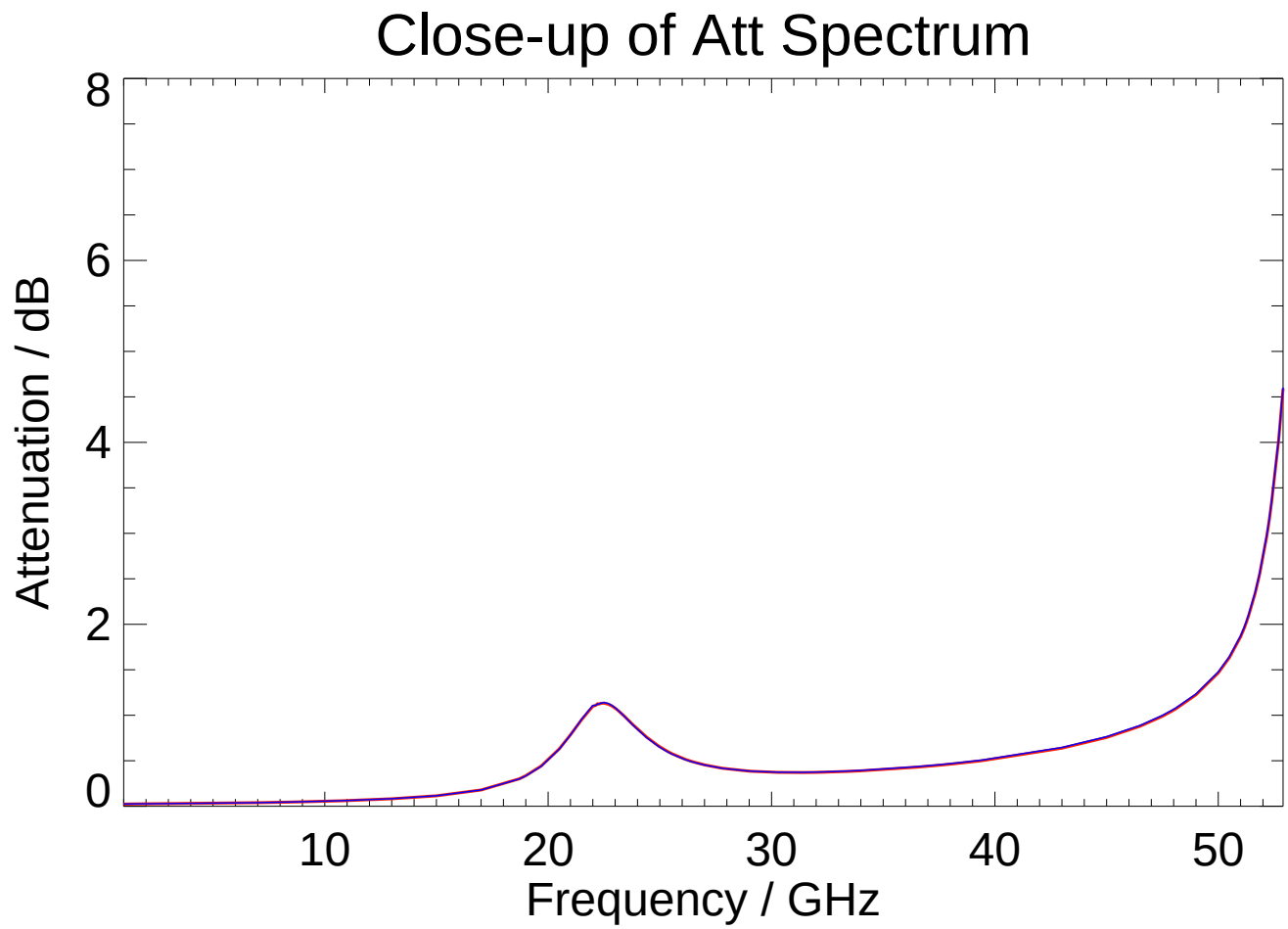
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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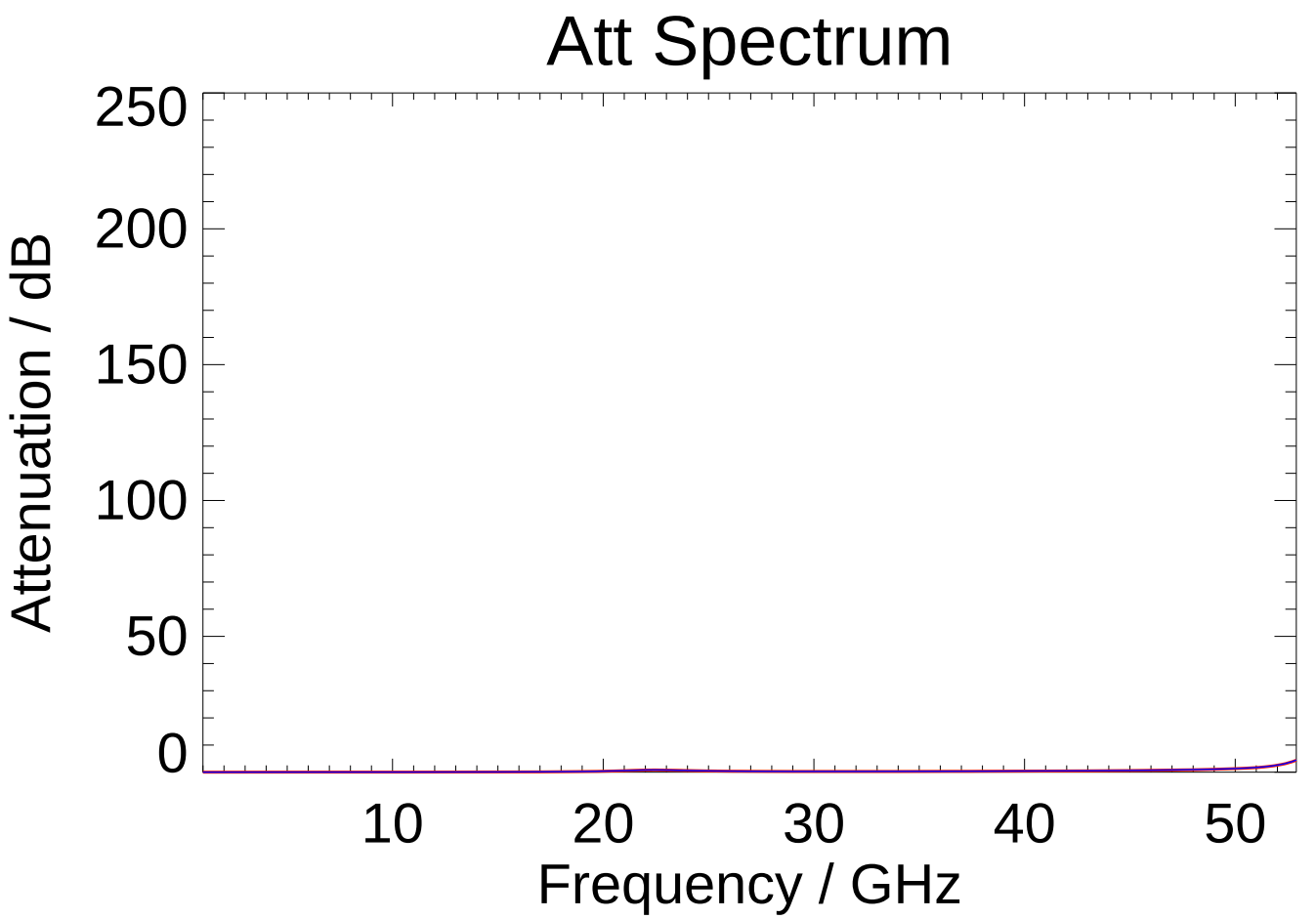
Frequency / GHz


Att Spectrum
Attenuation / dB
250
200
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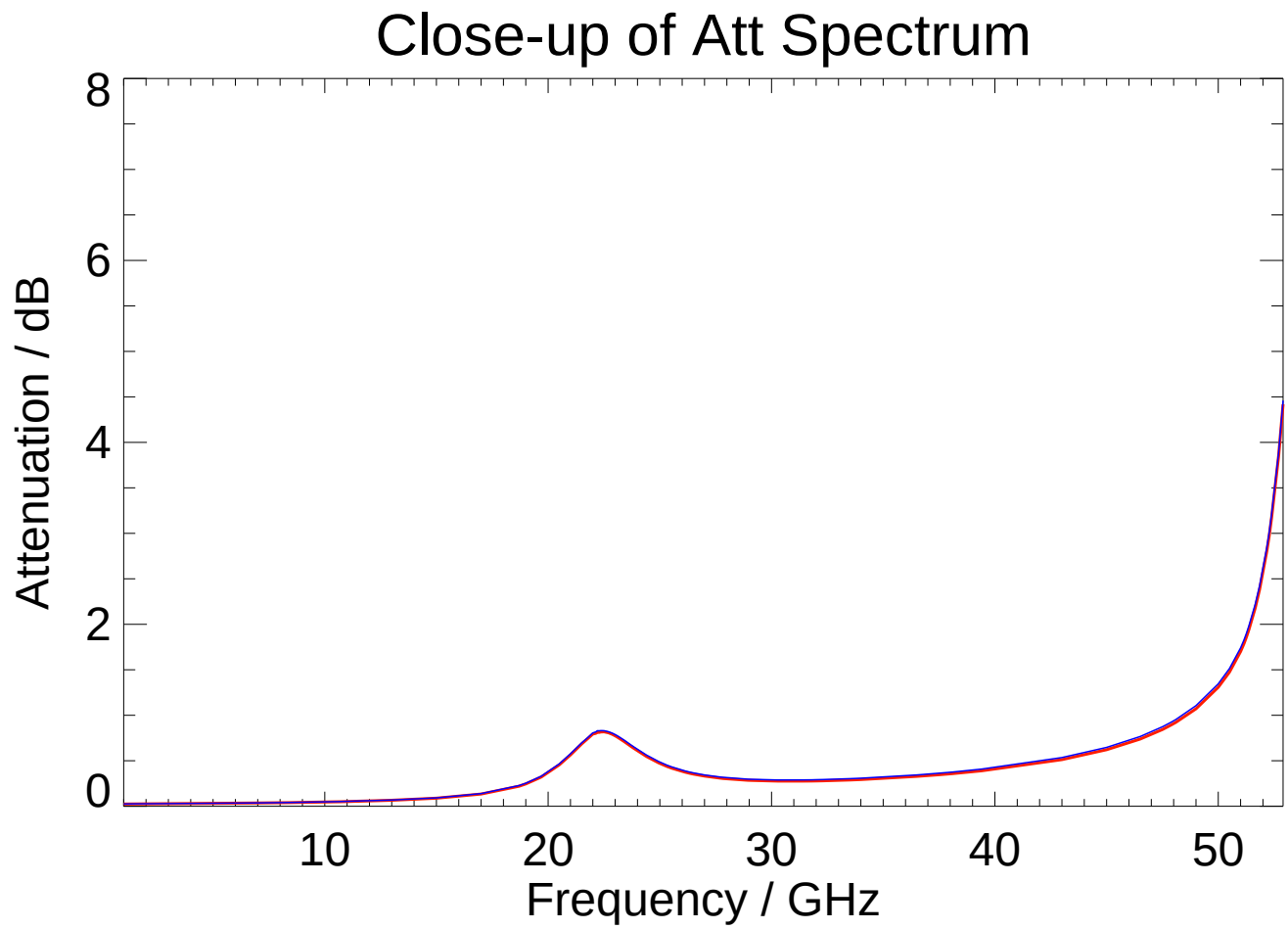
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
6
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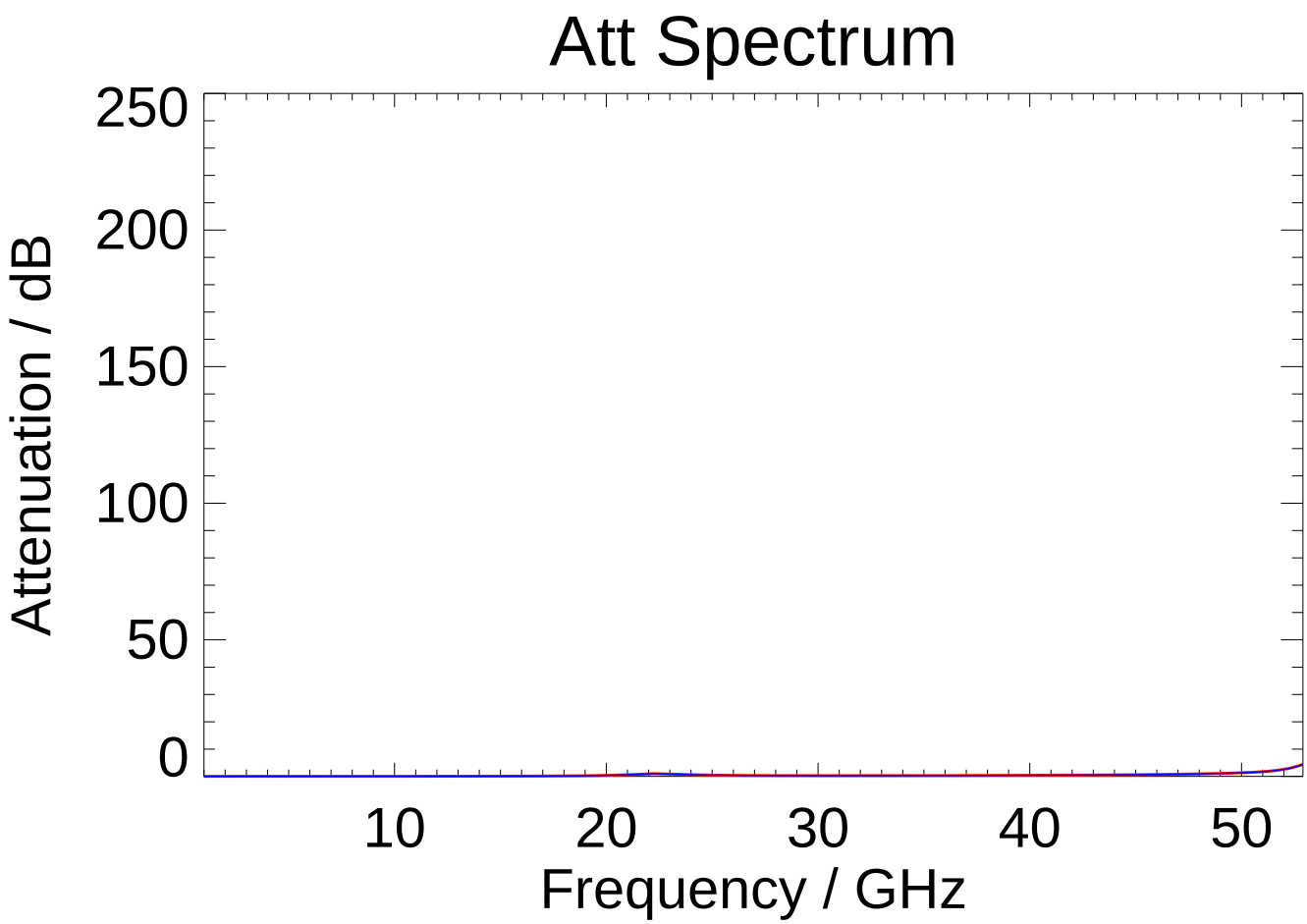
Frequency / GHz


Att Spectrum
Attenuation / dB
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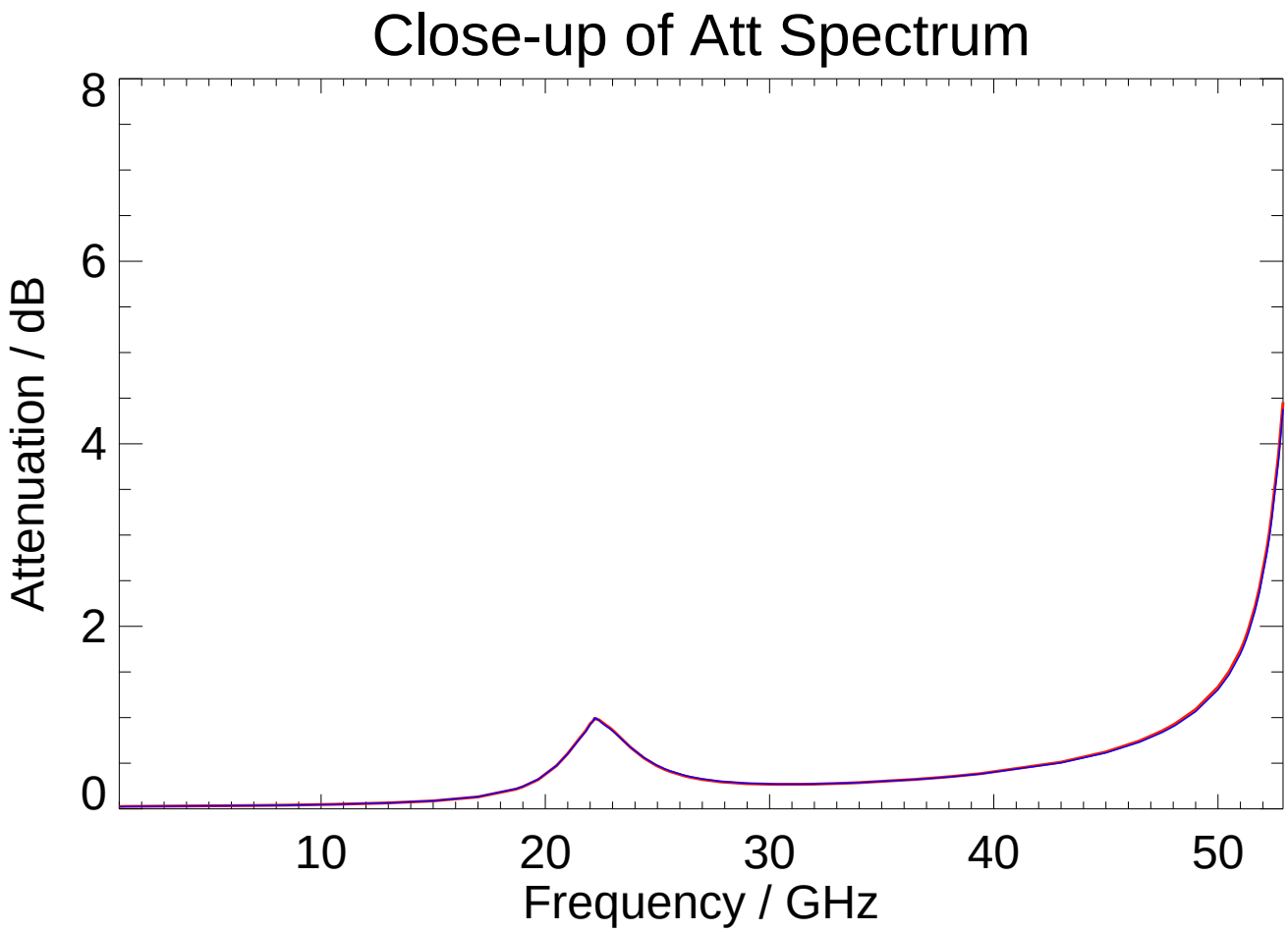
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
6
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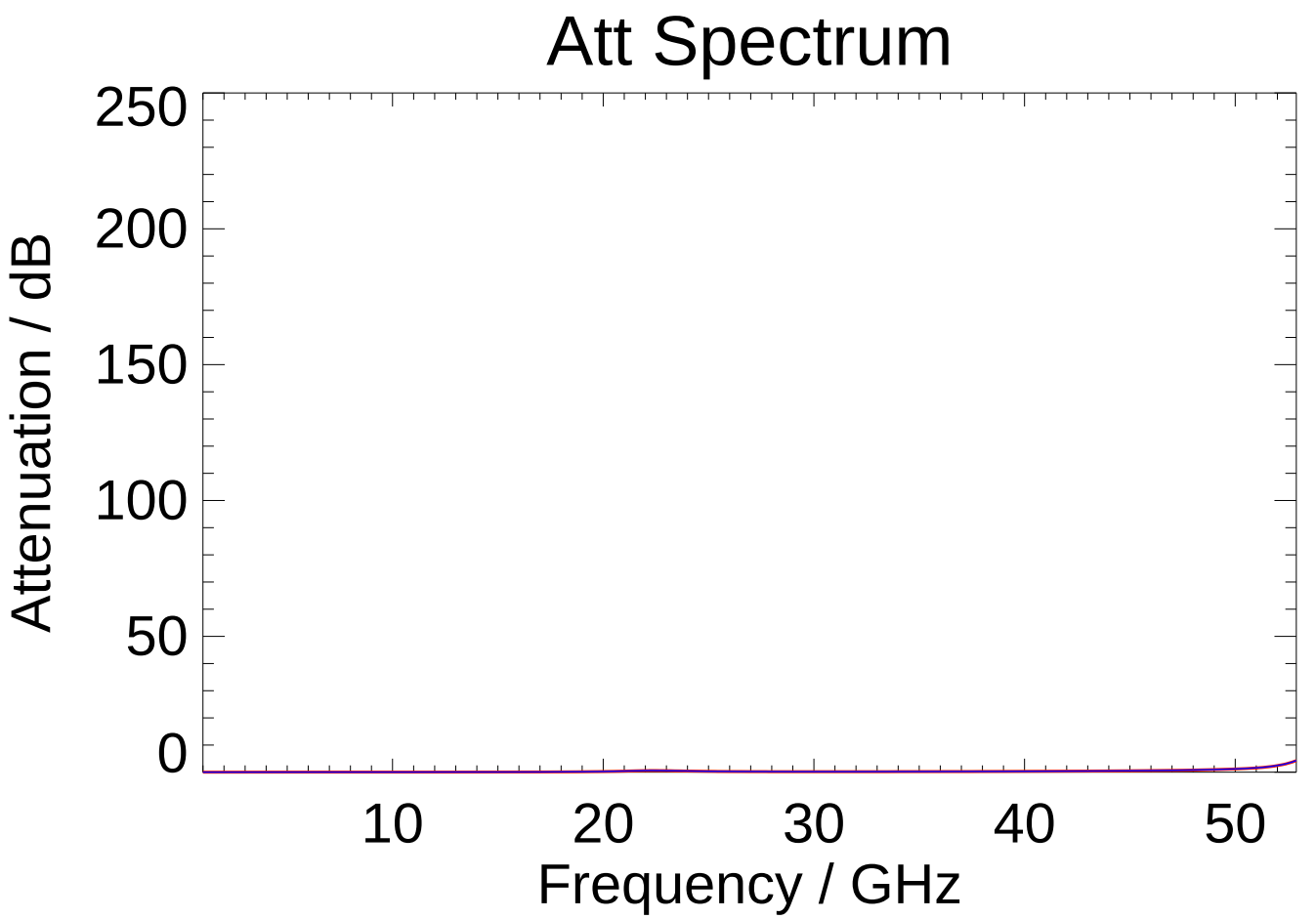
Frequency / GHz


Att Spectrum
Attenuation / dB
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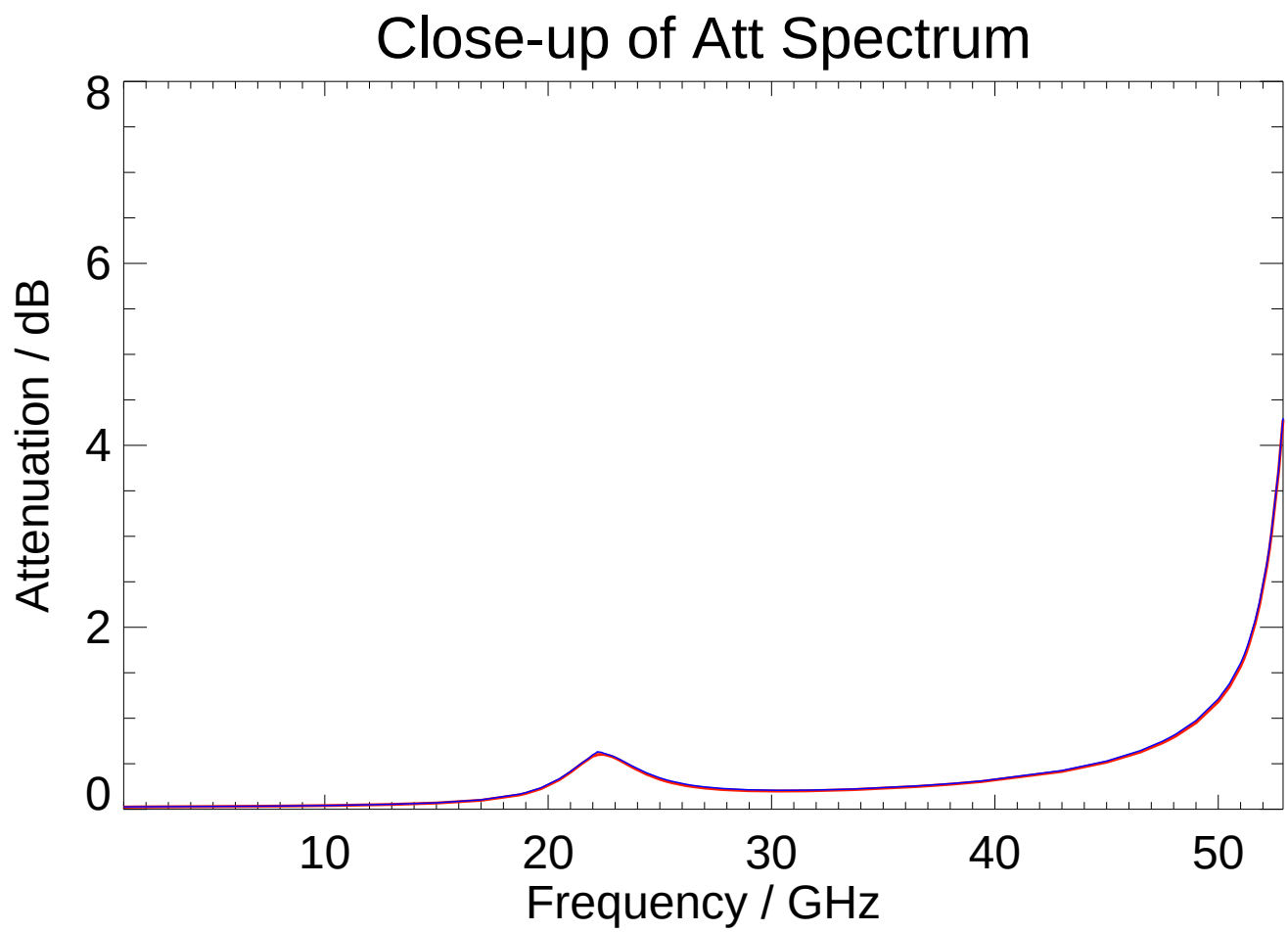
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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6
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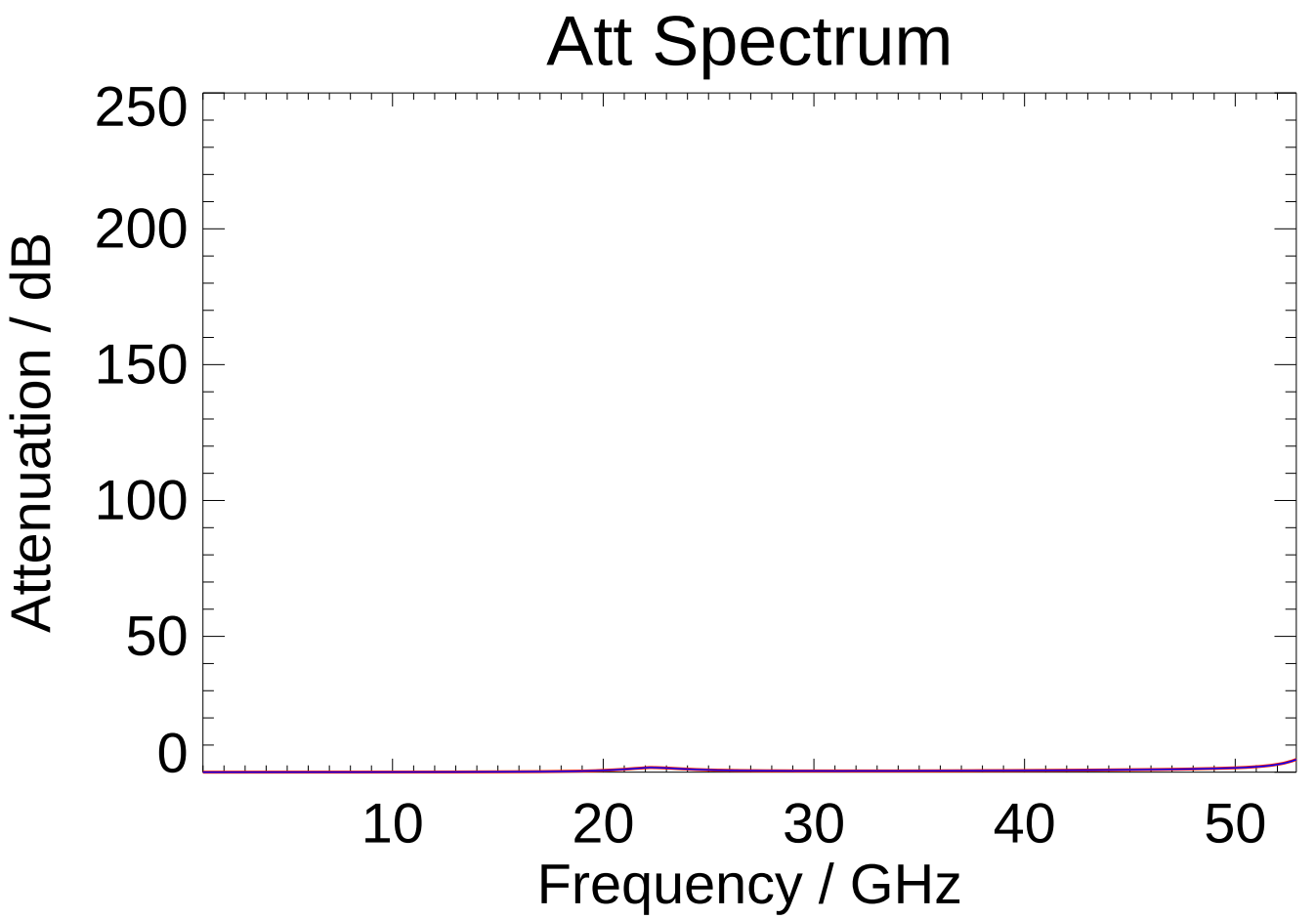
Frequency / GHz


Att Spectrum
Attenuation / dB
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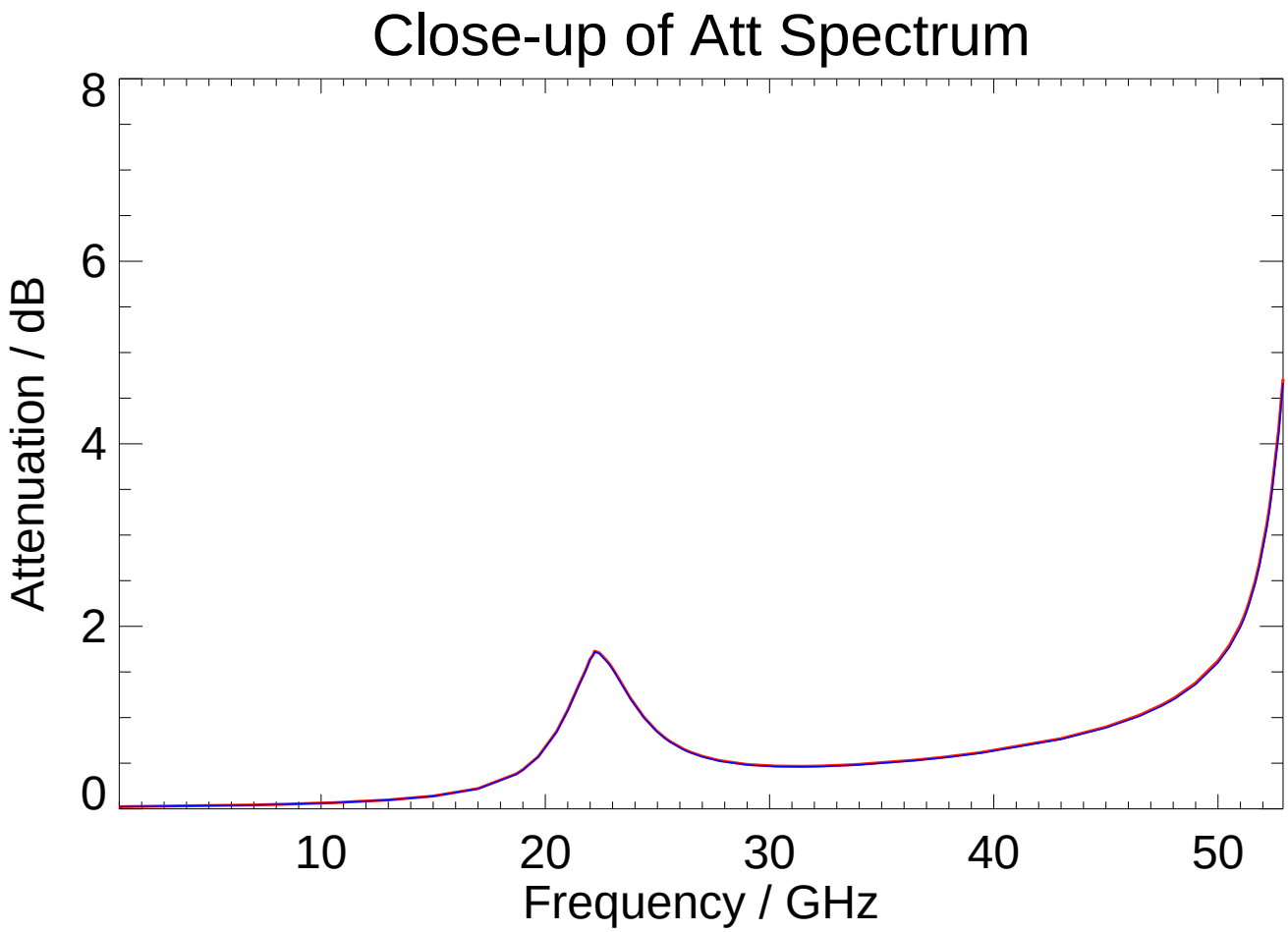
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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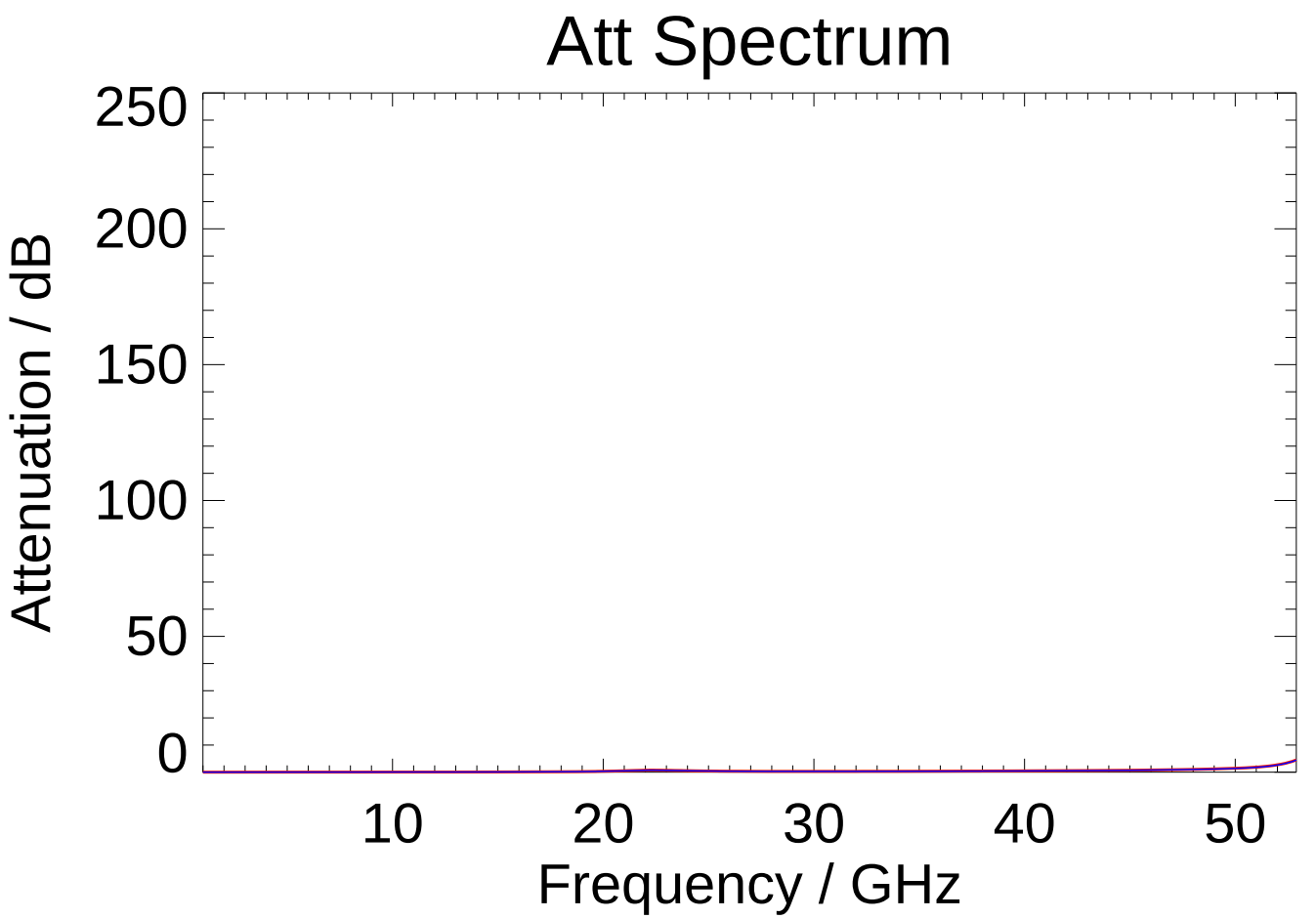
Frequency / GHz


Att Spectrum
Attenuation / dB
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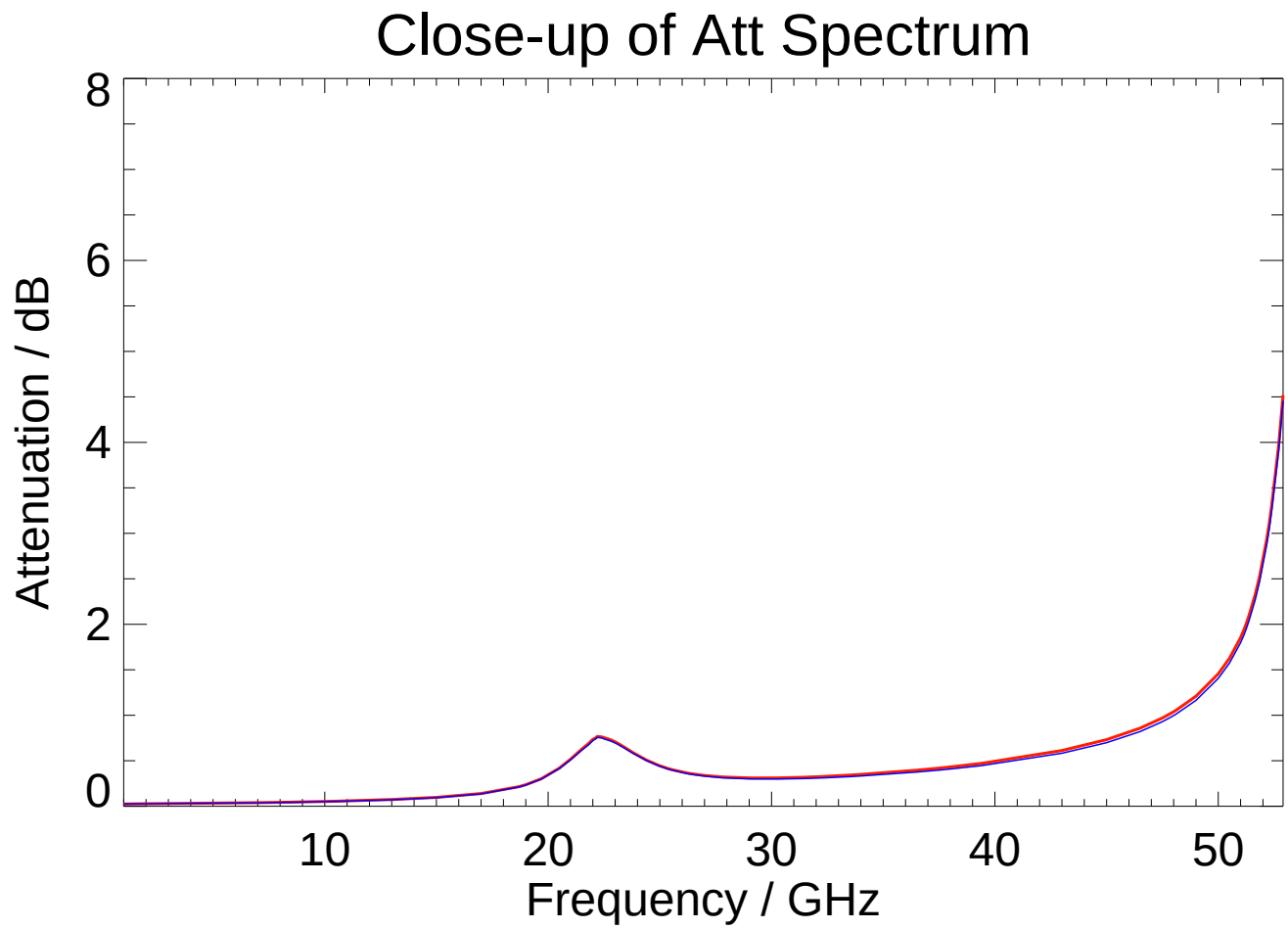
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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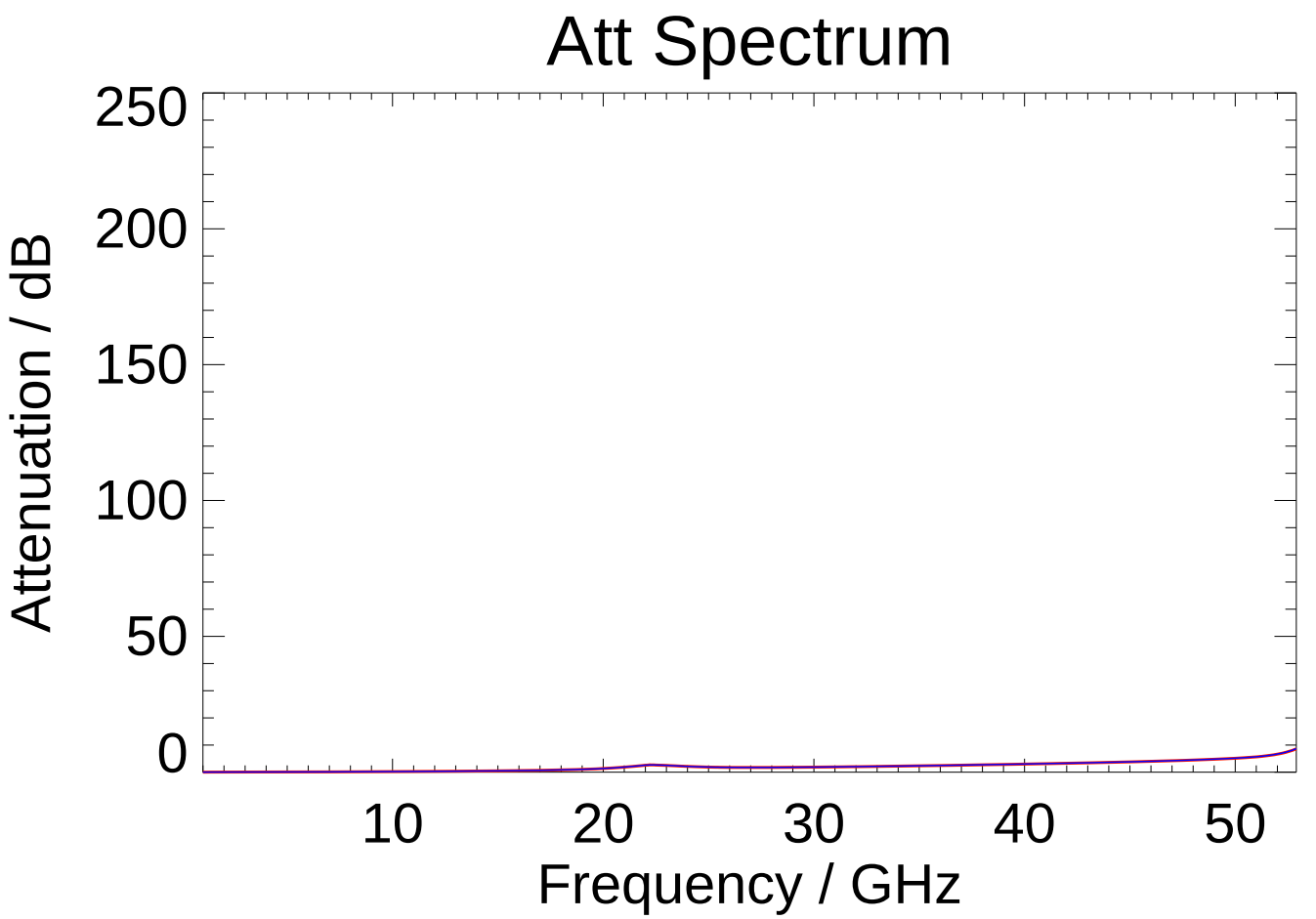
Frequency / GHz


Att Spectrum
Attenuation / dB
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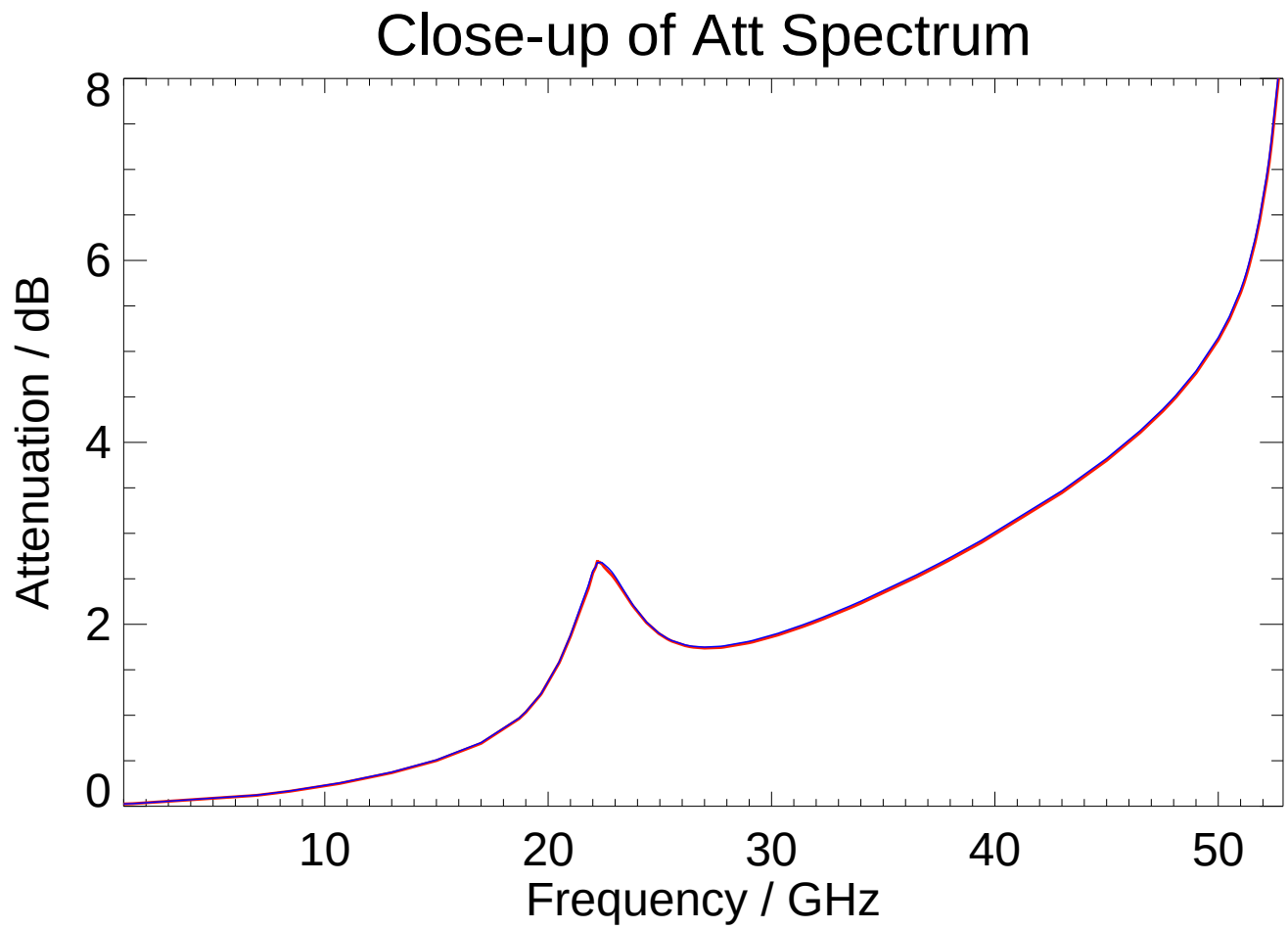
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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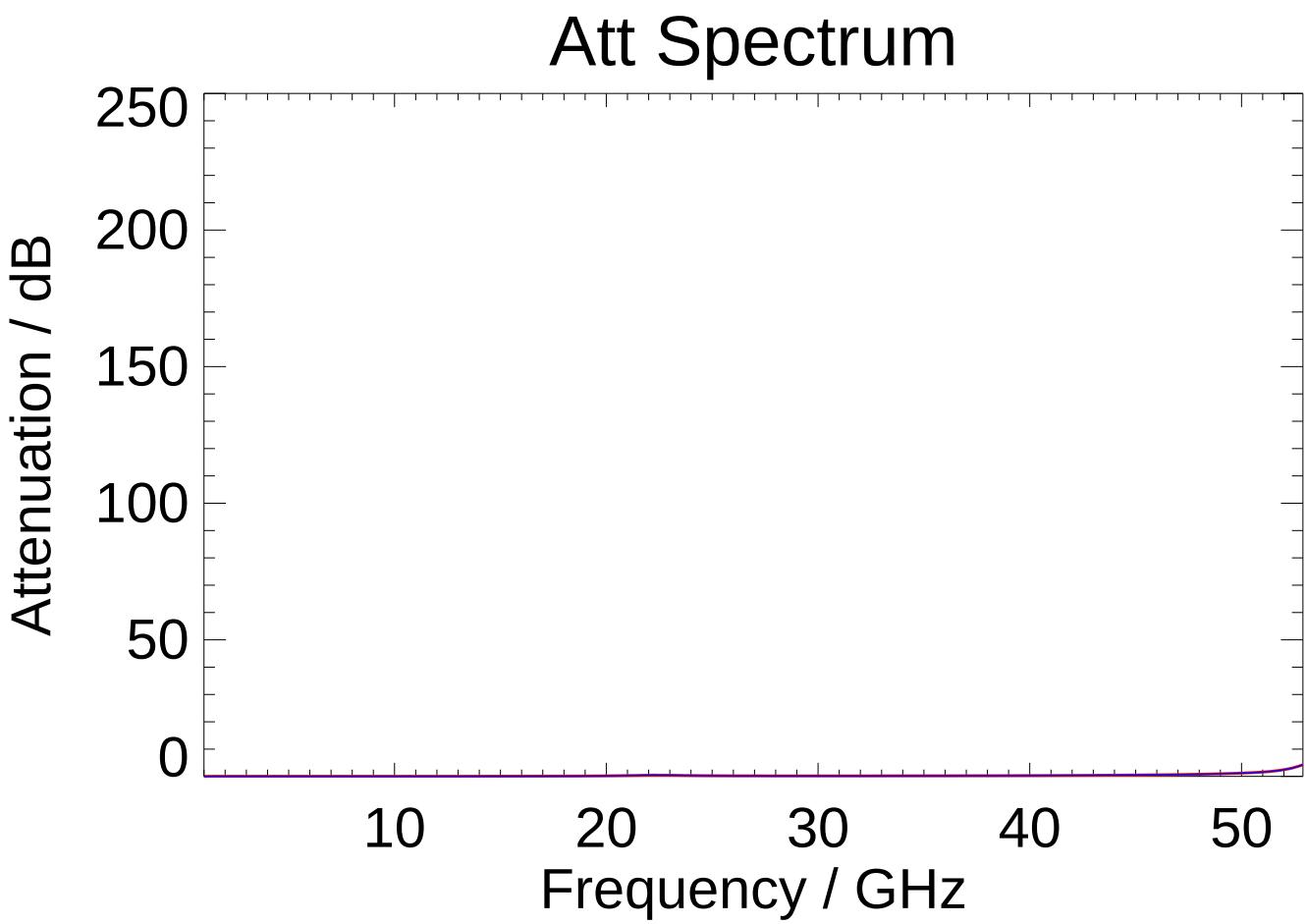
Frequency / GHz


Att Spectrum
Attenuation / dB
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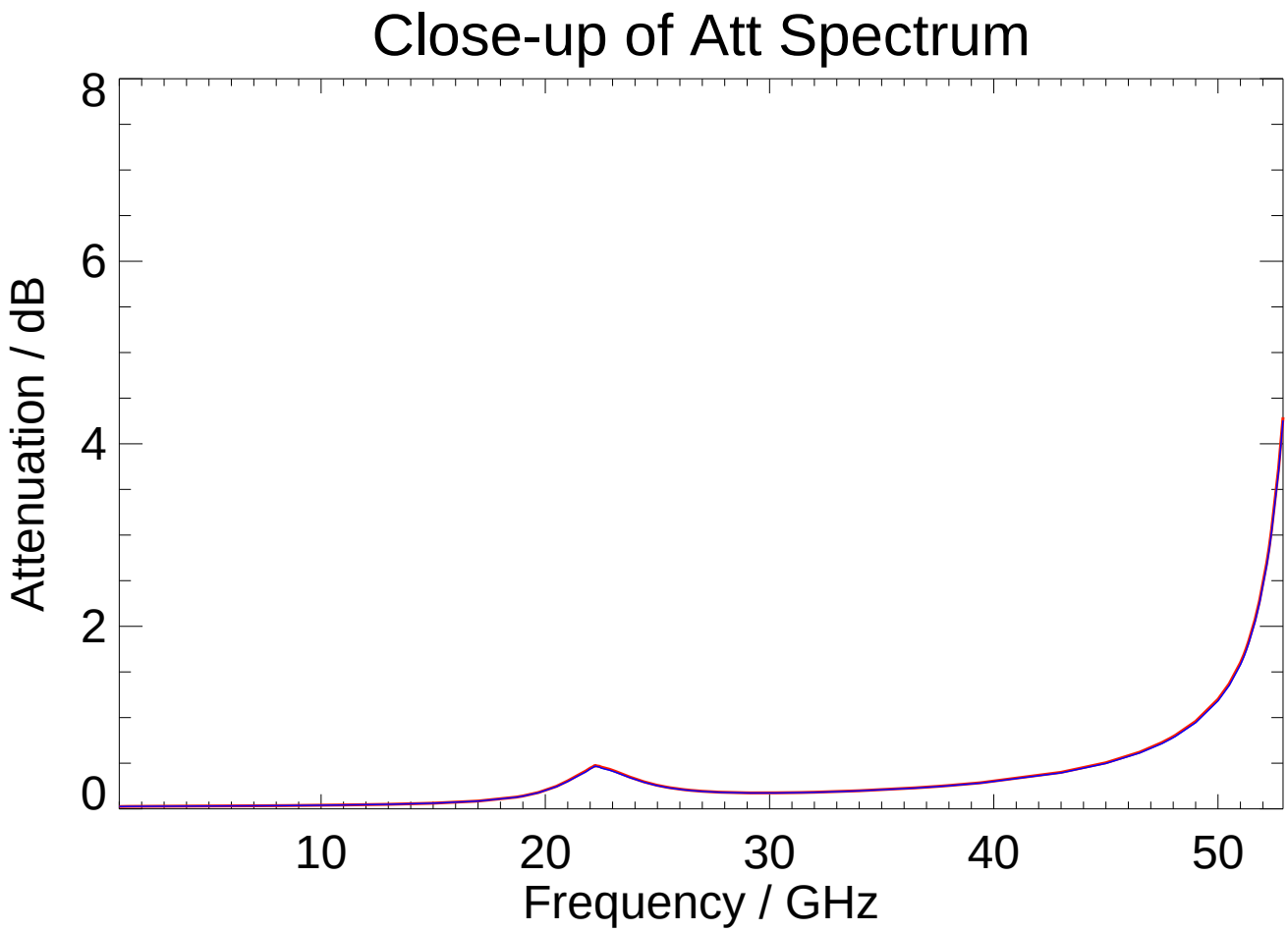
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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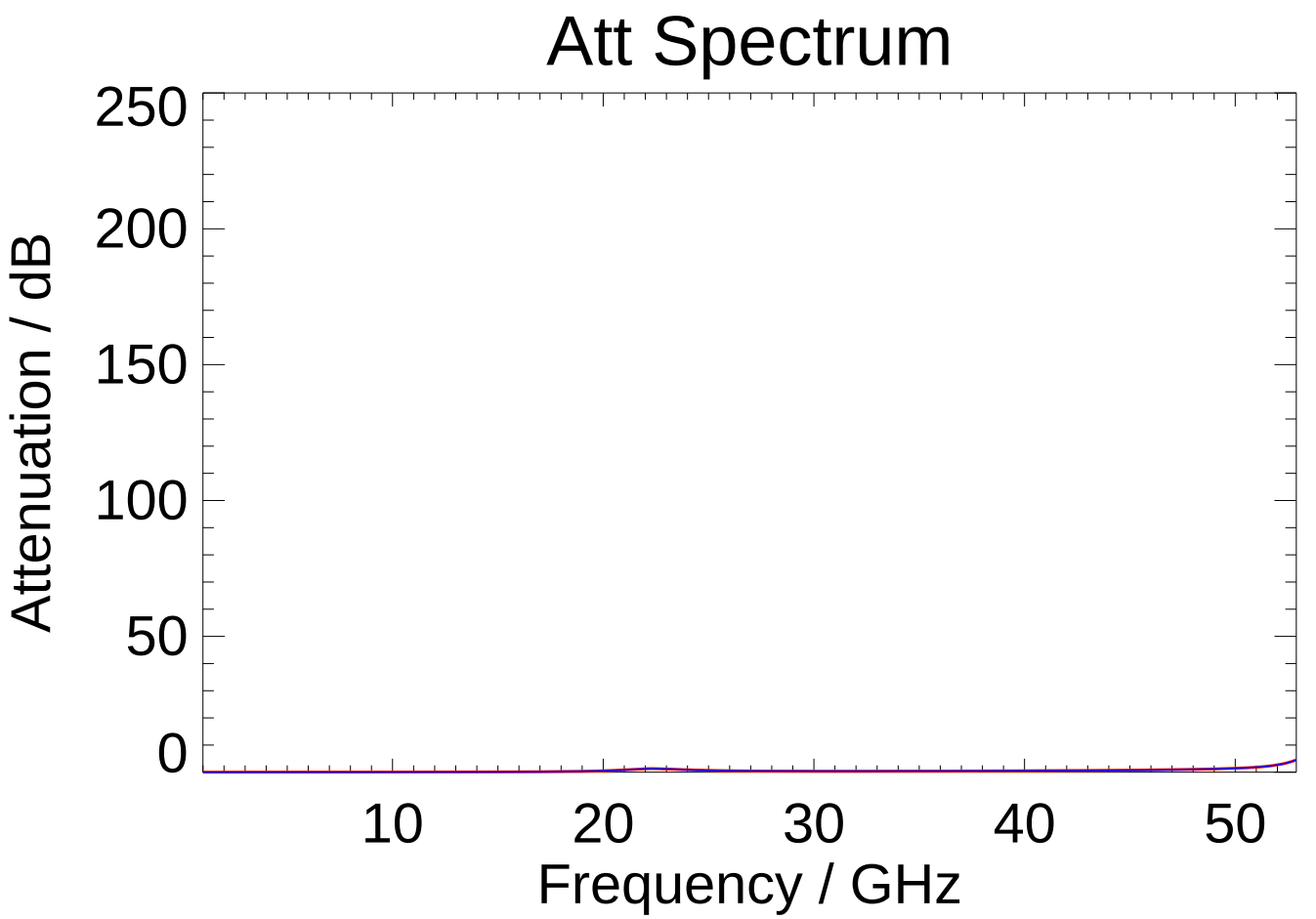
Frequency / GHz


Att Spectrum
Attenuation / dB
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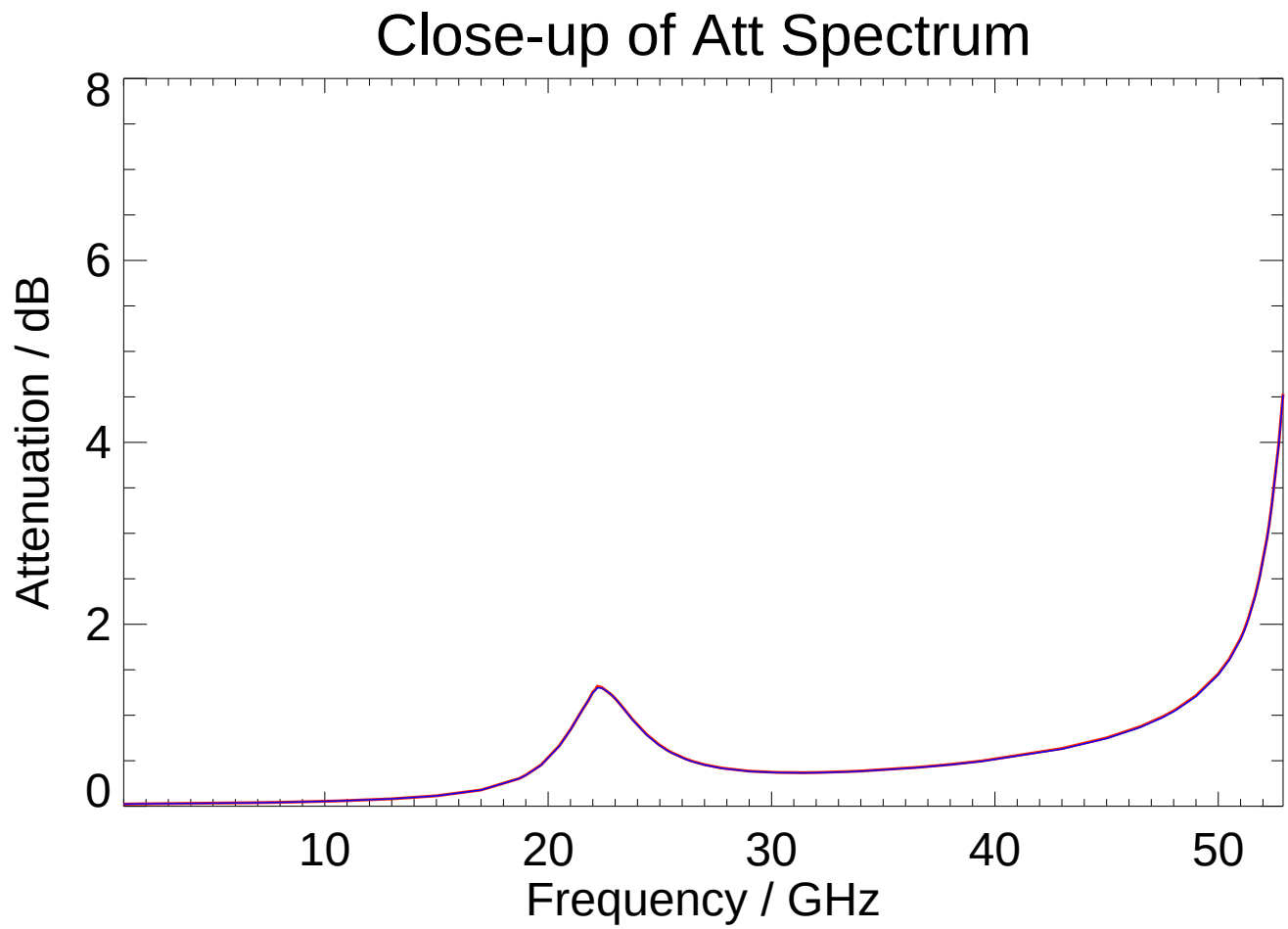
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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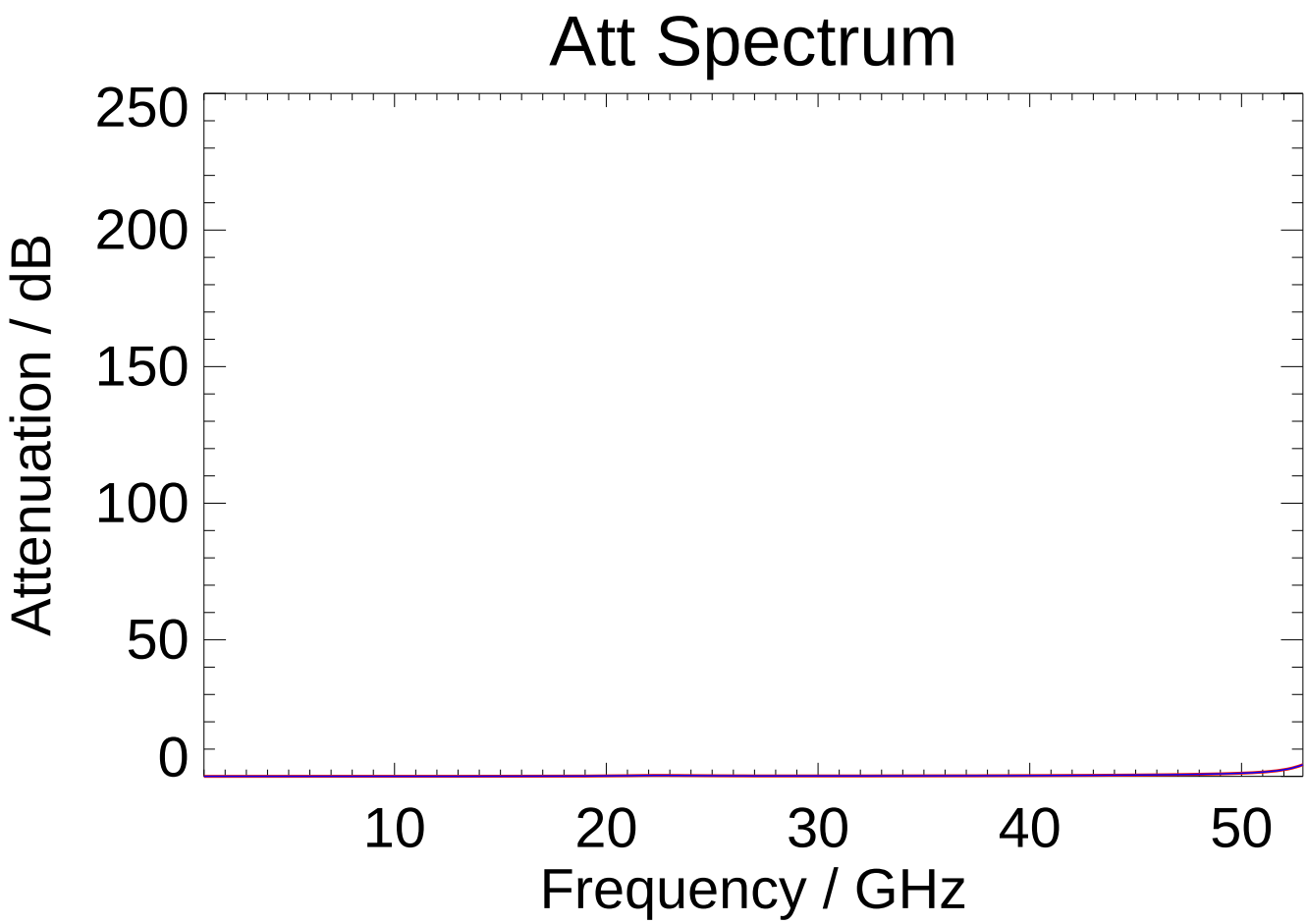
Frequency / GHz


Att Spectrum
Attenuation / dB
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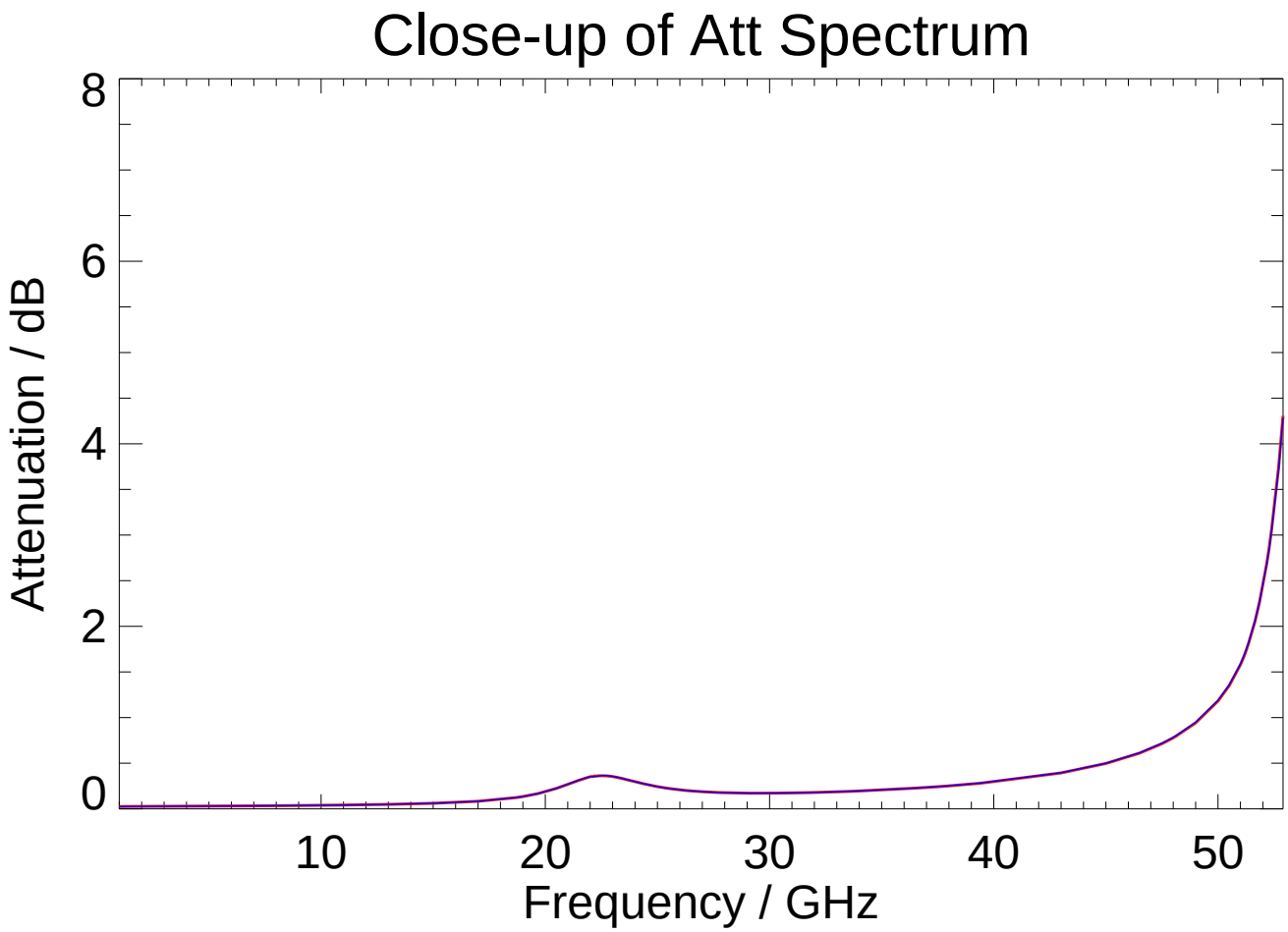
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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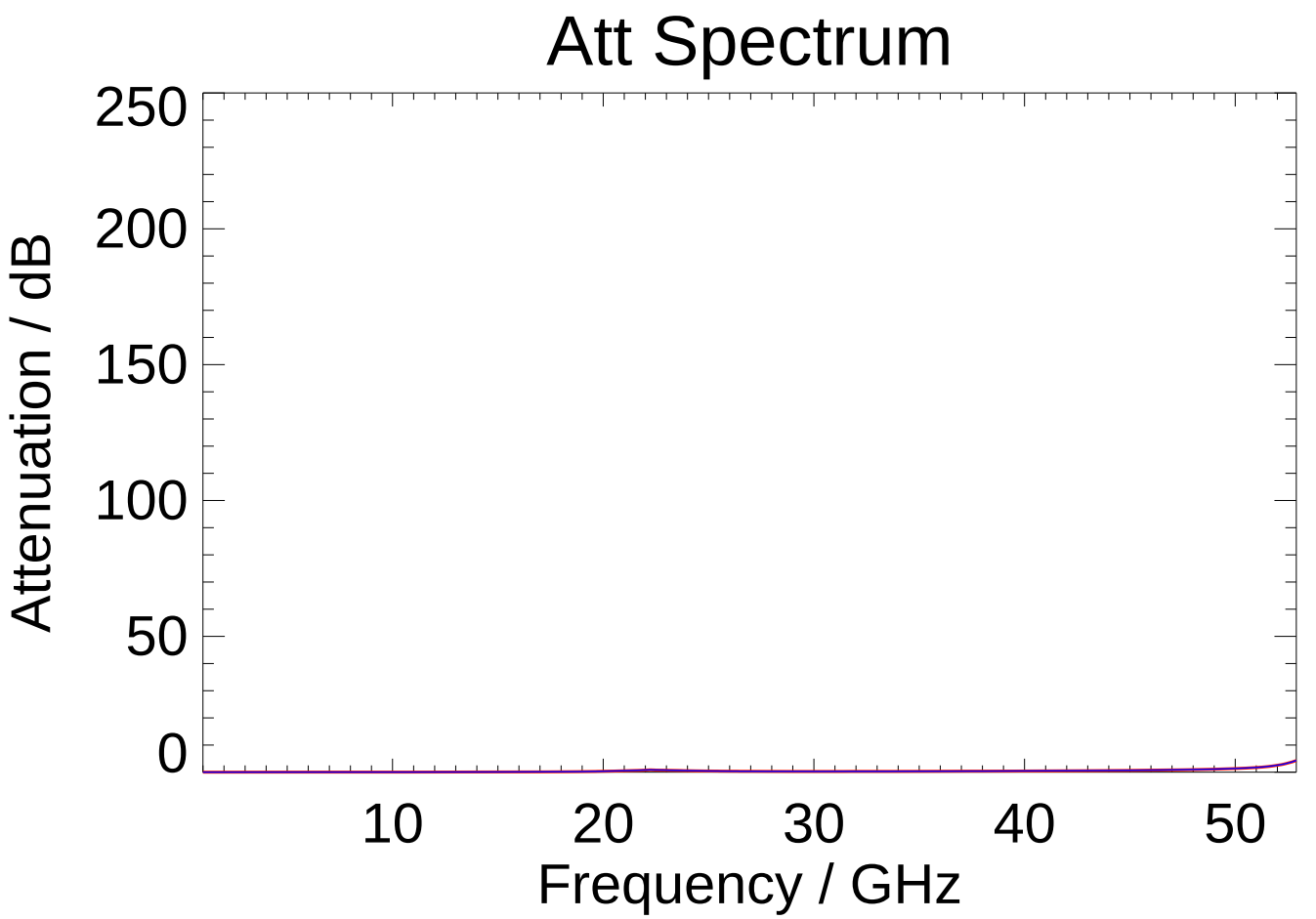
Frequency / GHz


Att Spectrum
Attenuation / dB
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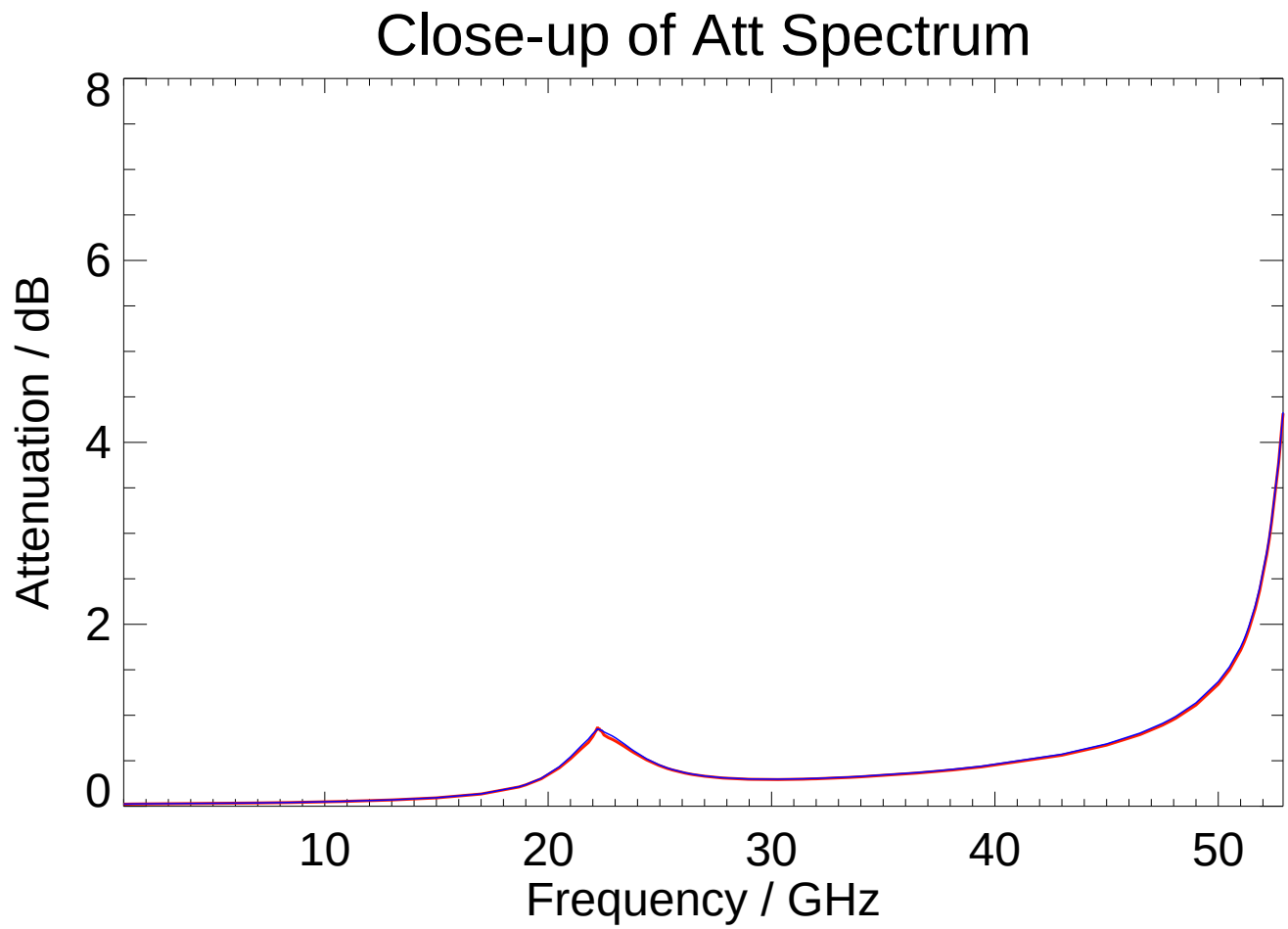
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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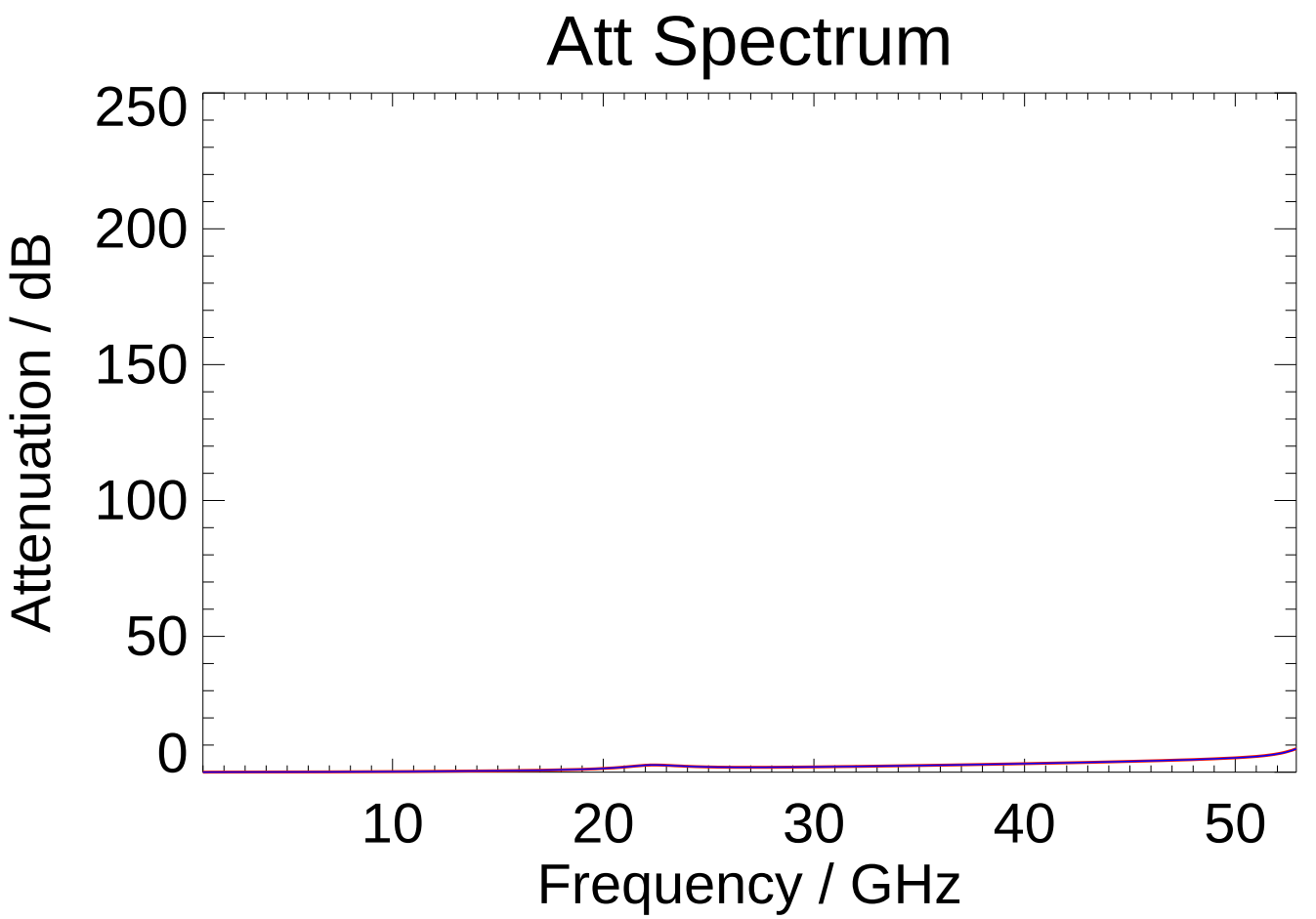
Frequency / GHz


Att Spectrum
Attenuation / dB
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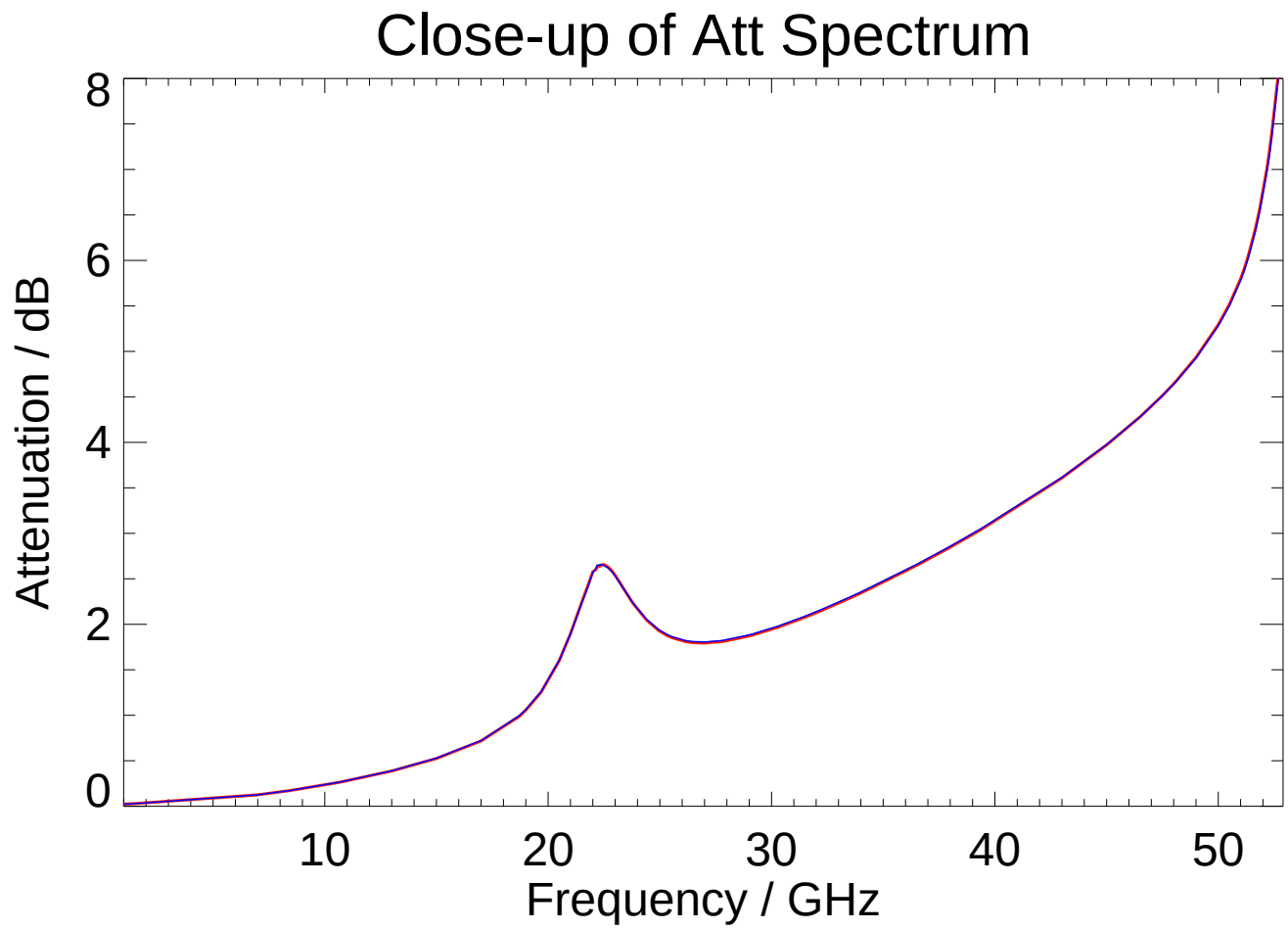
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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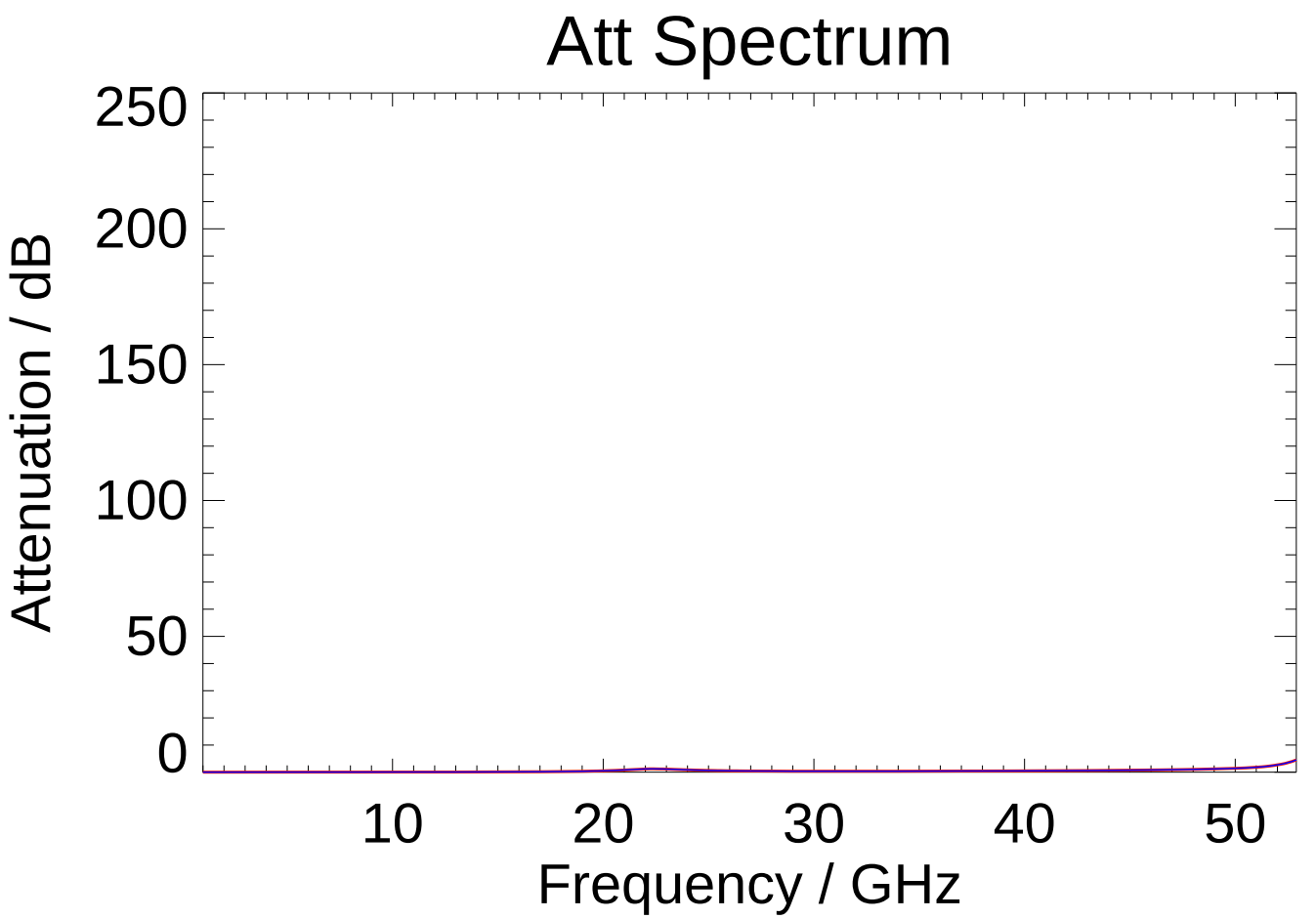
Frequency / GHz


Att Spectrum
Attenuation / dB
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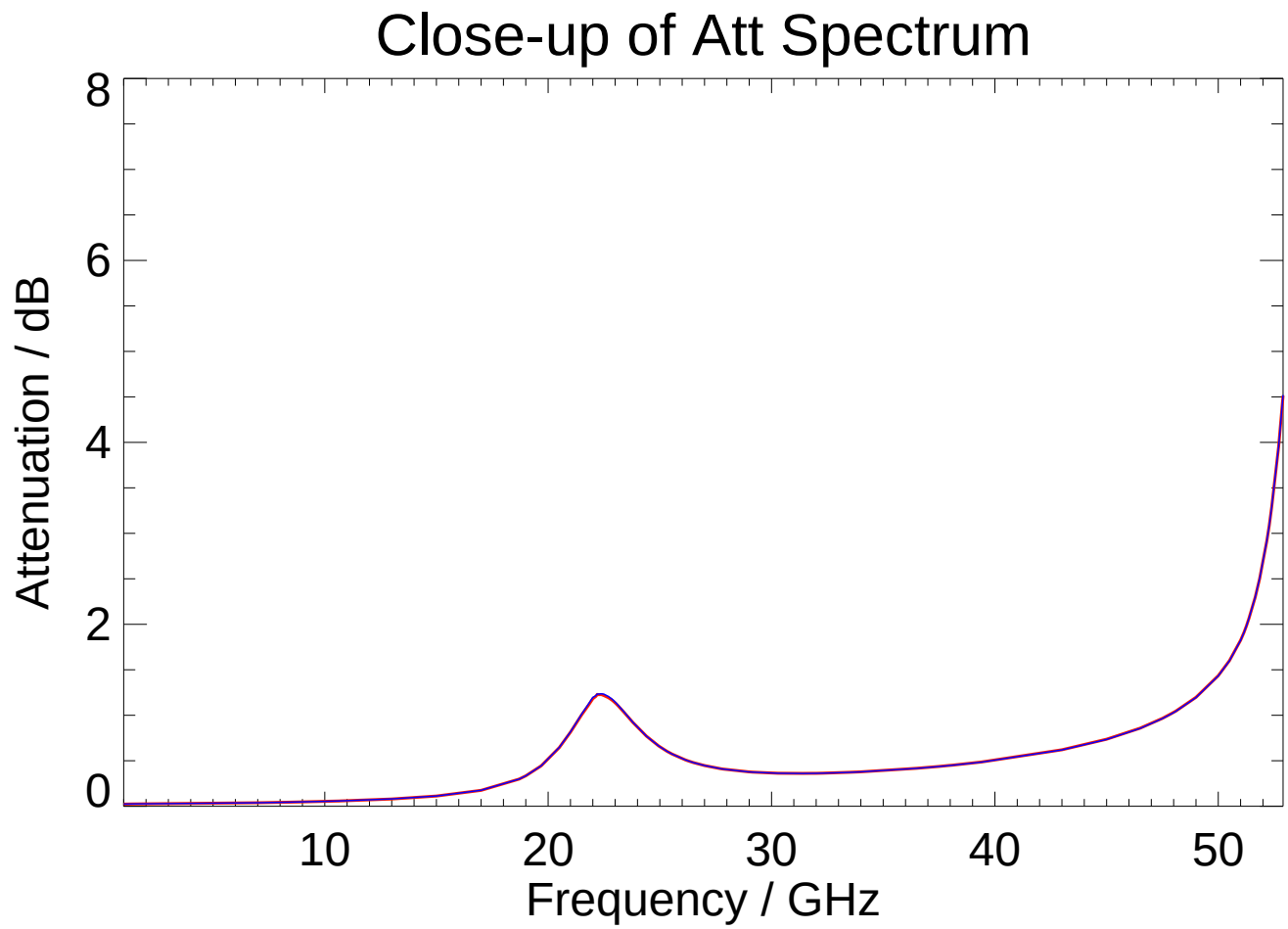
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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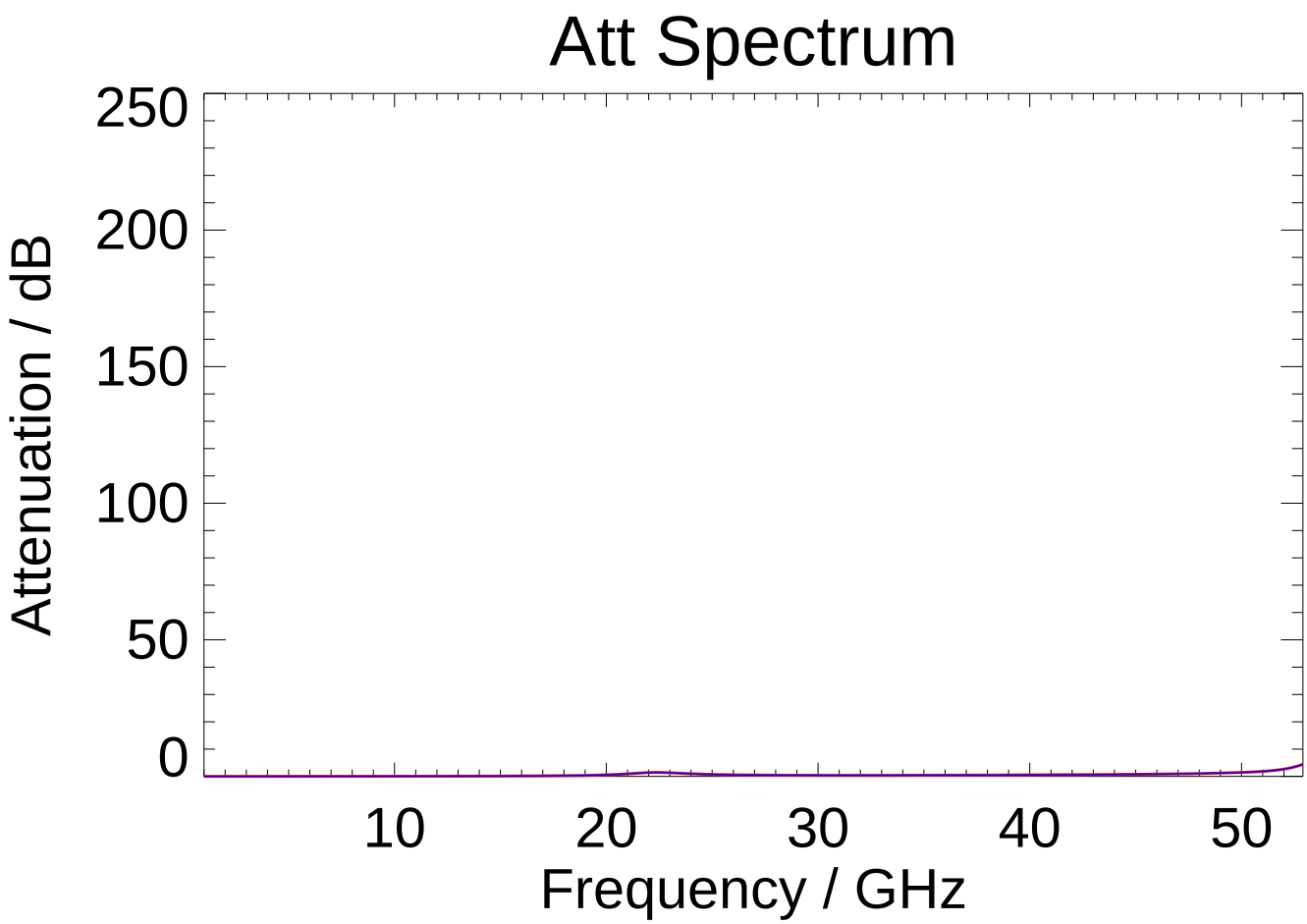
Frequency / GHz


Att Spectrum
Attenuation / dB
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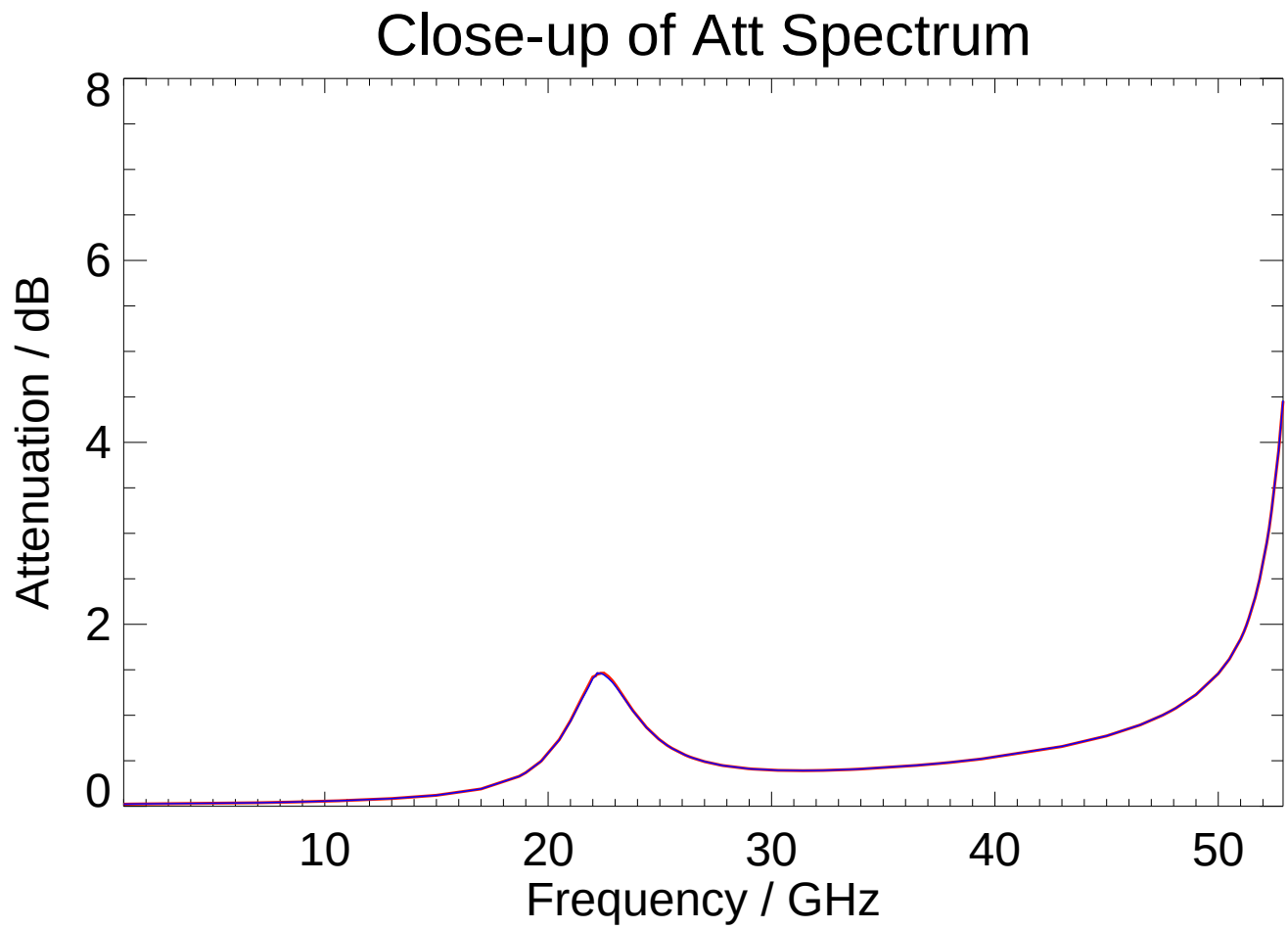
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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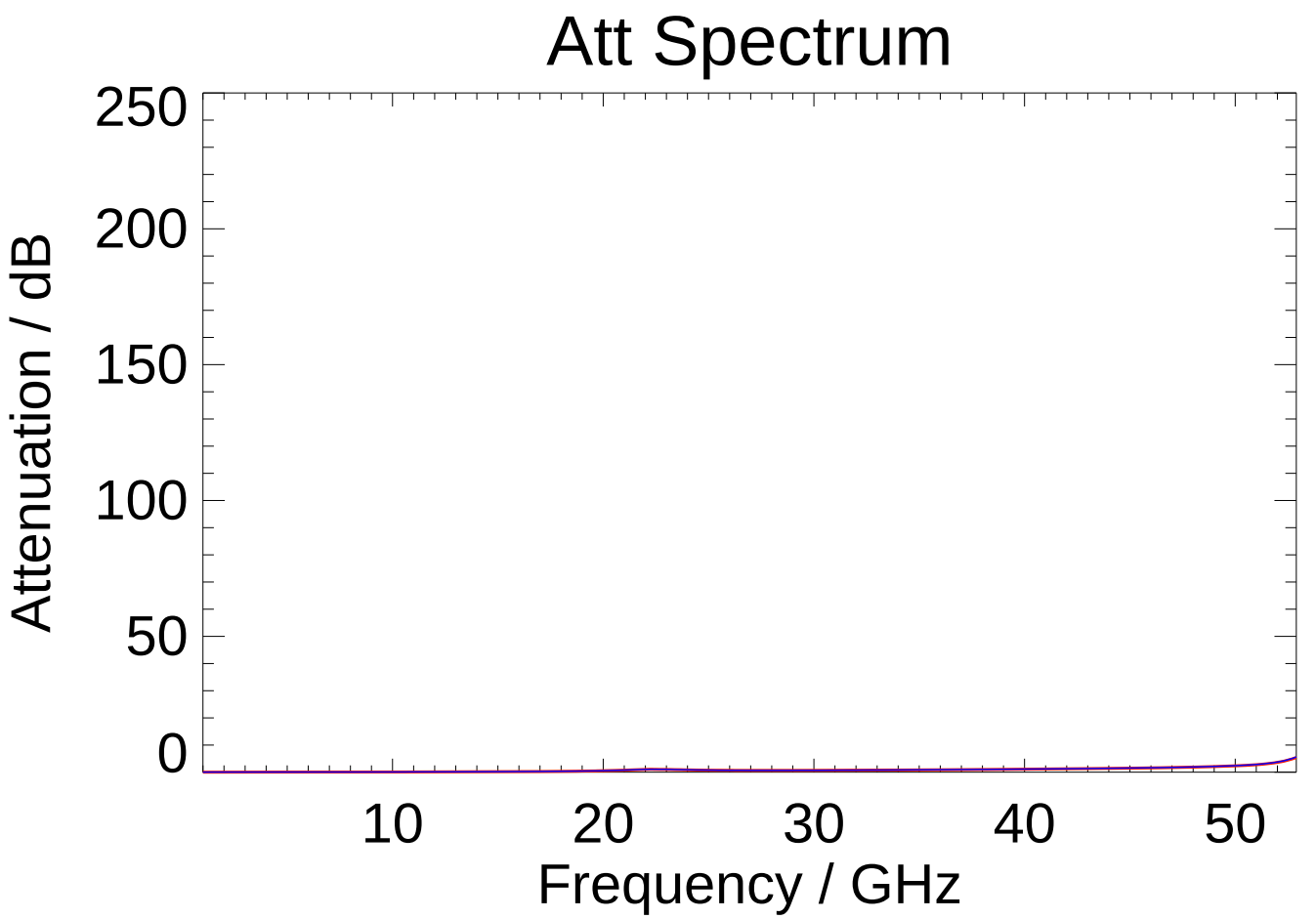
Frequency / GHz


Att Spectrum
Attenuation / dB
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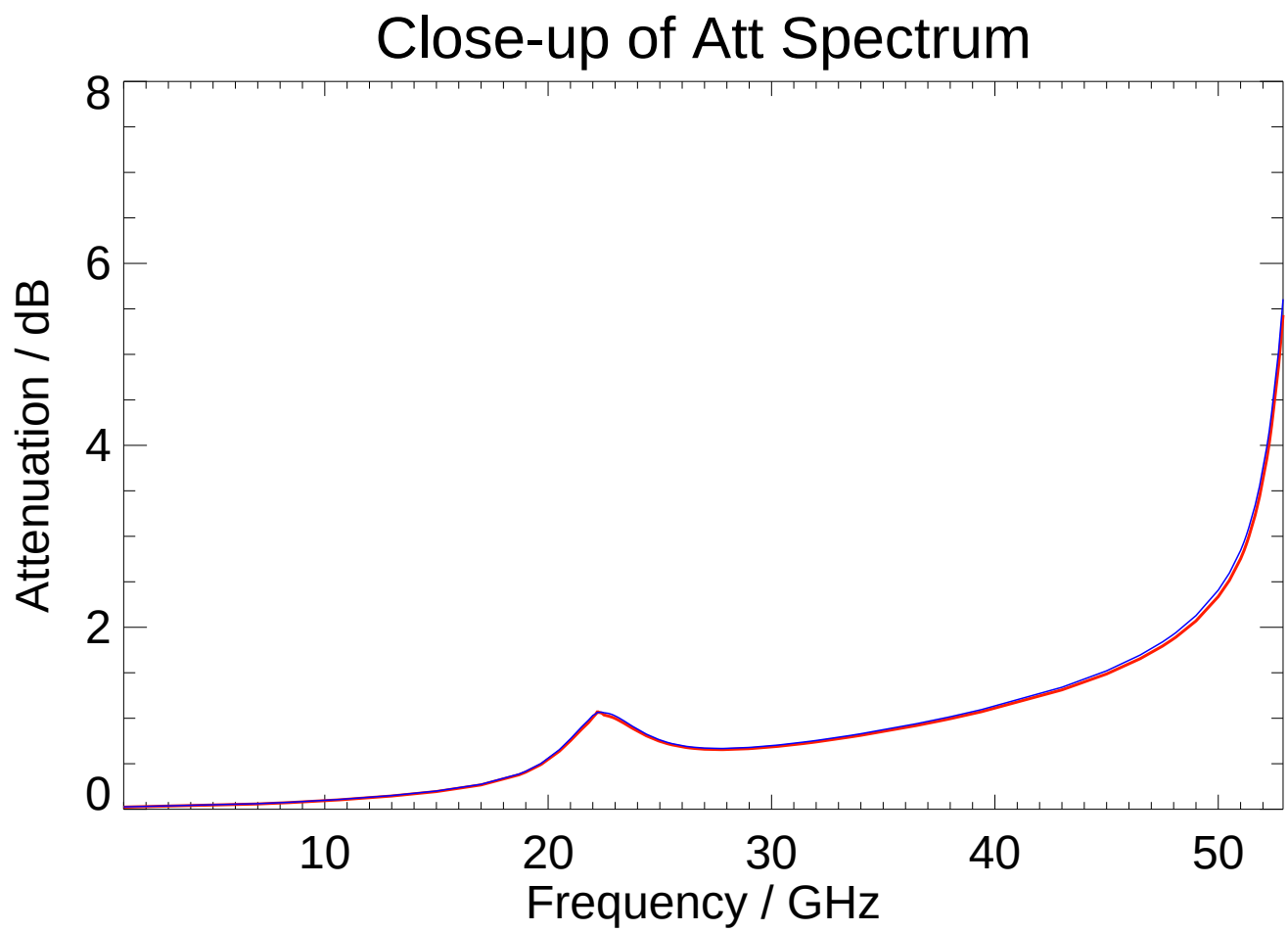
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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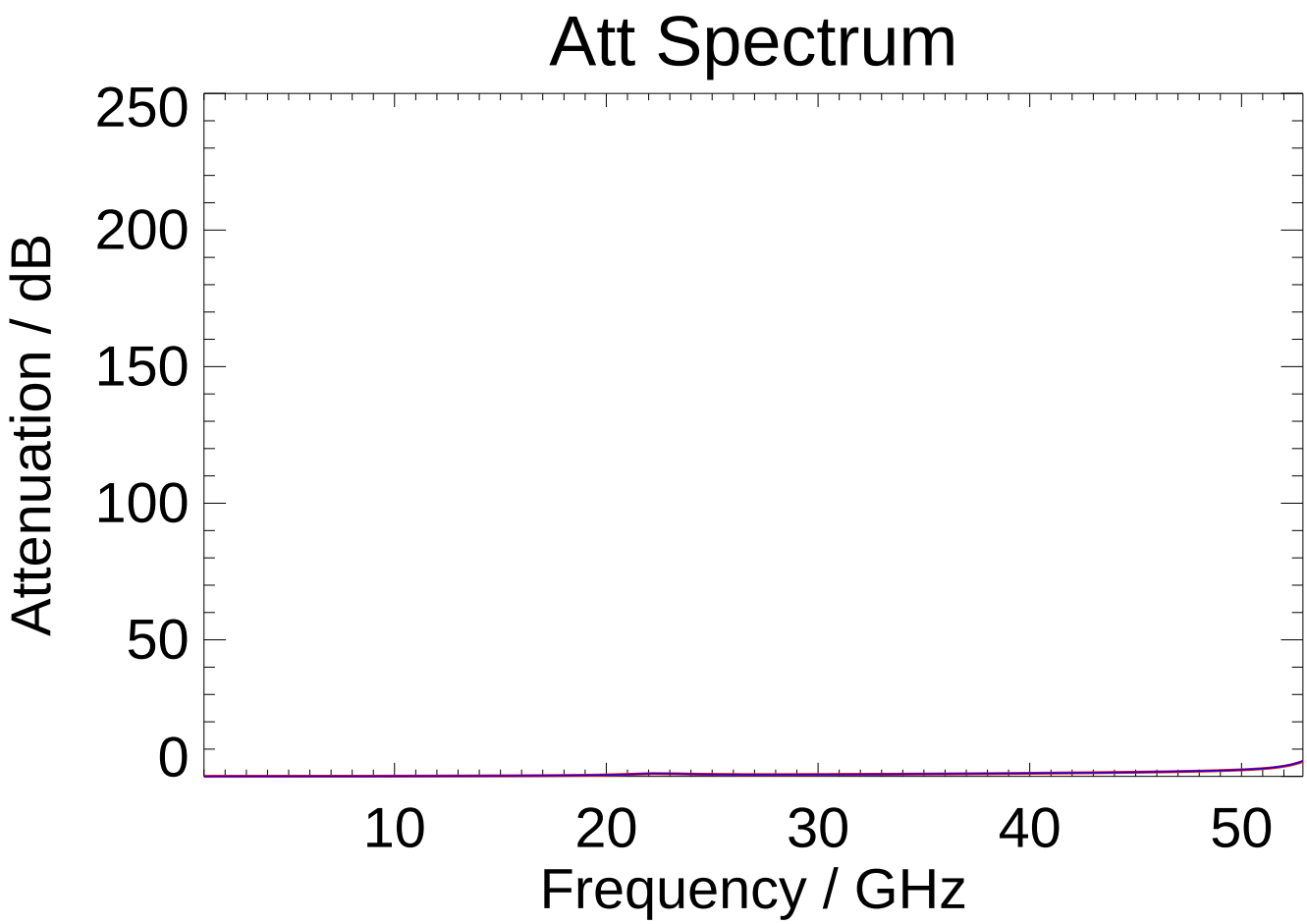
Frequency / GHz


Att Spectrum
Attenuation / dB
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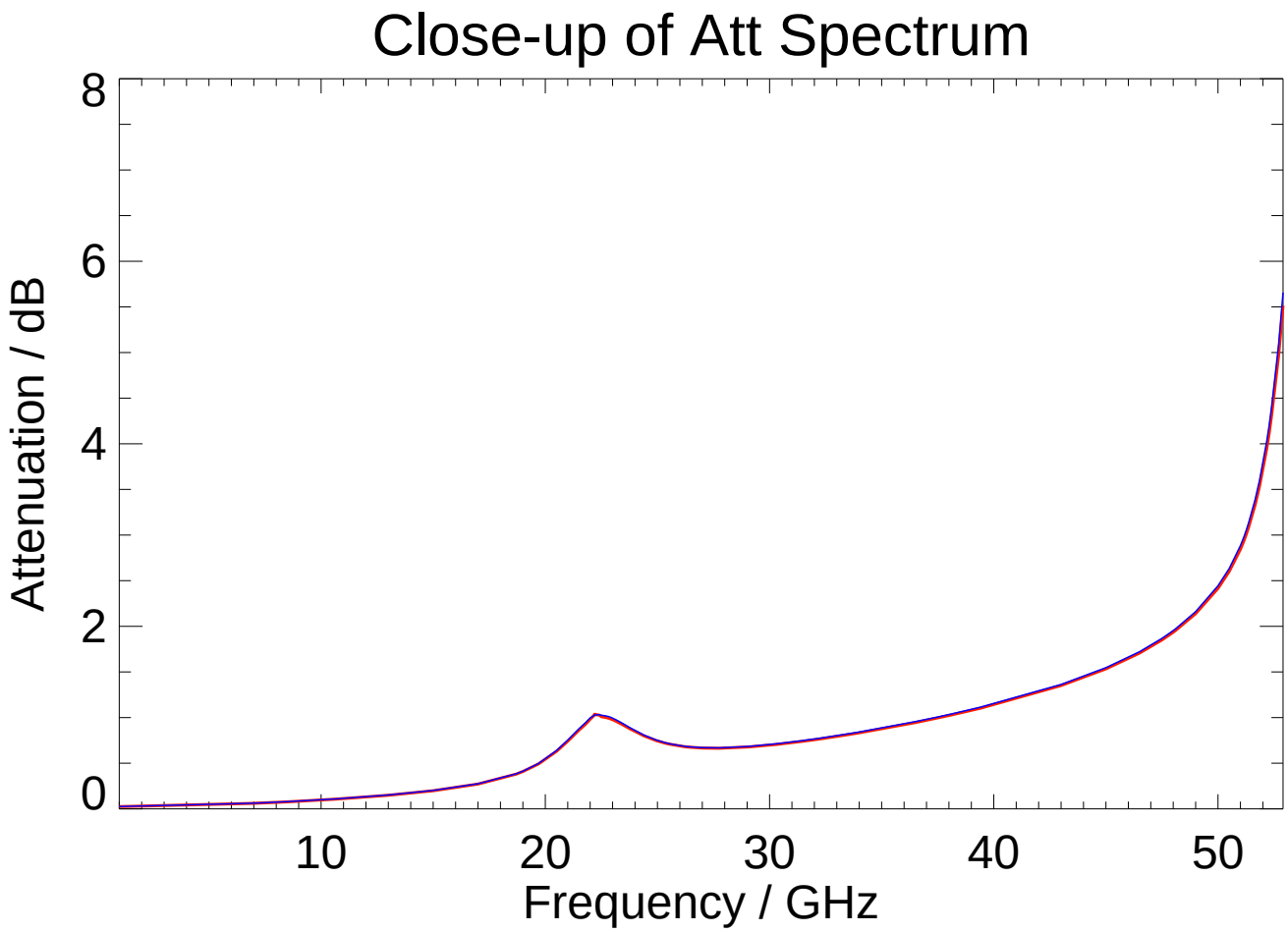
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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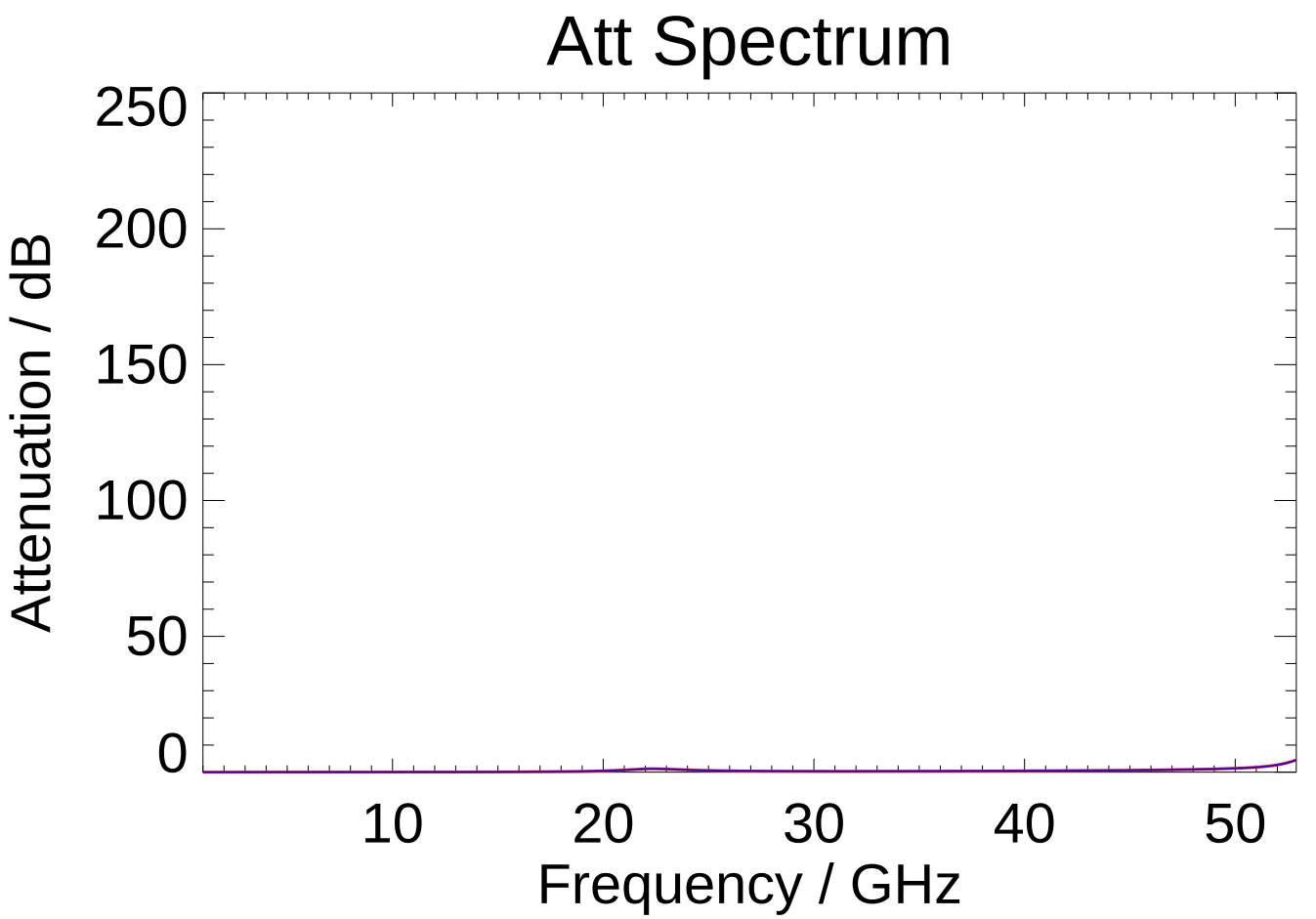
Frequency / GHz


Att Spectrum
Attenuation / dB
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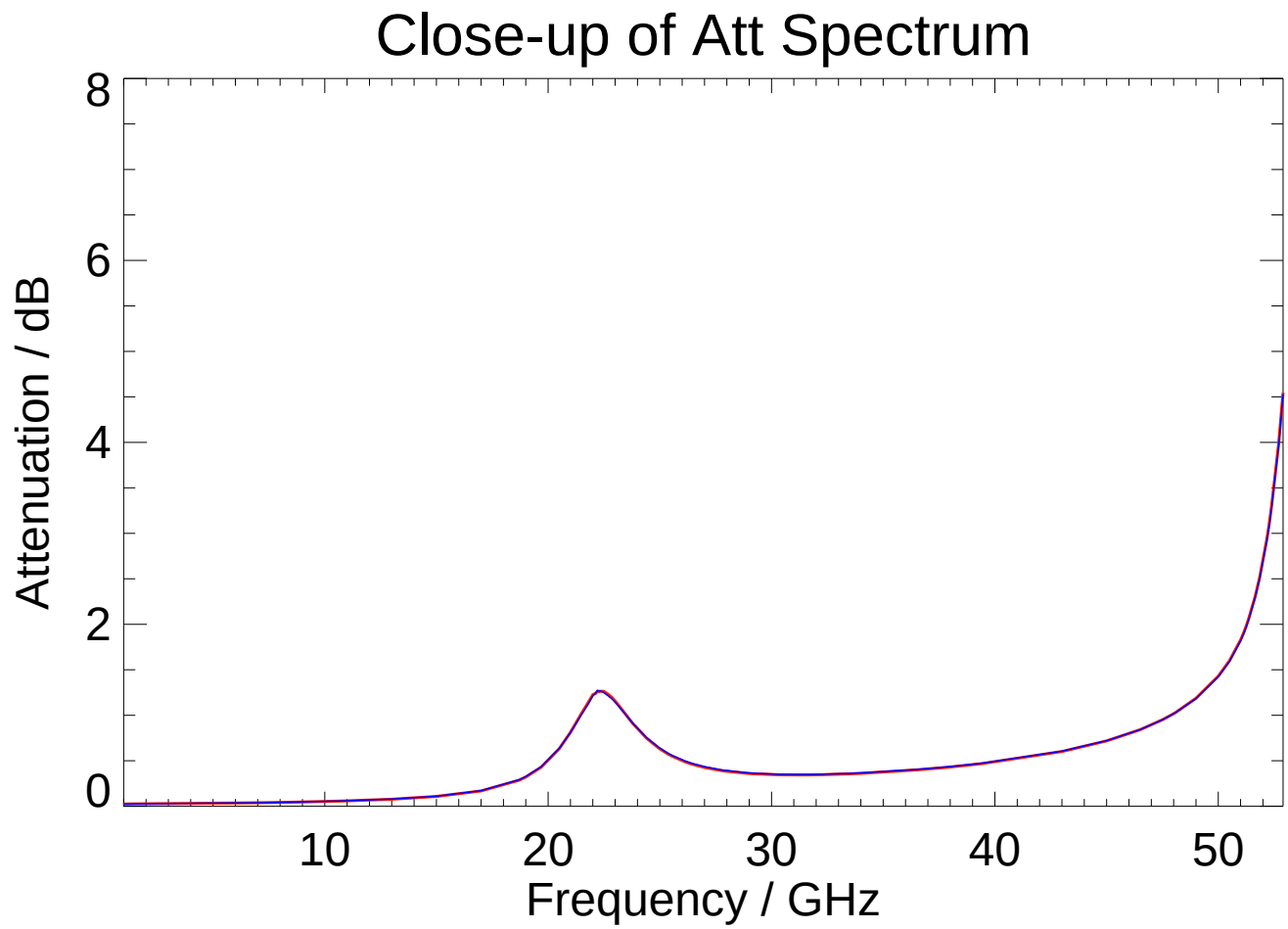
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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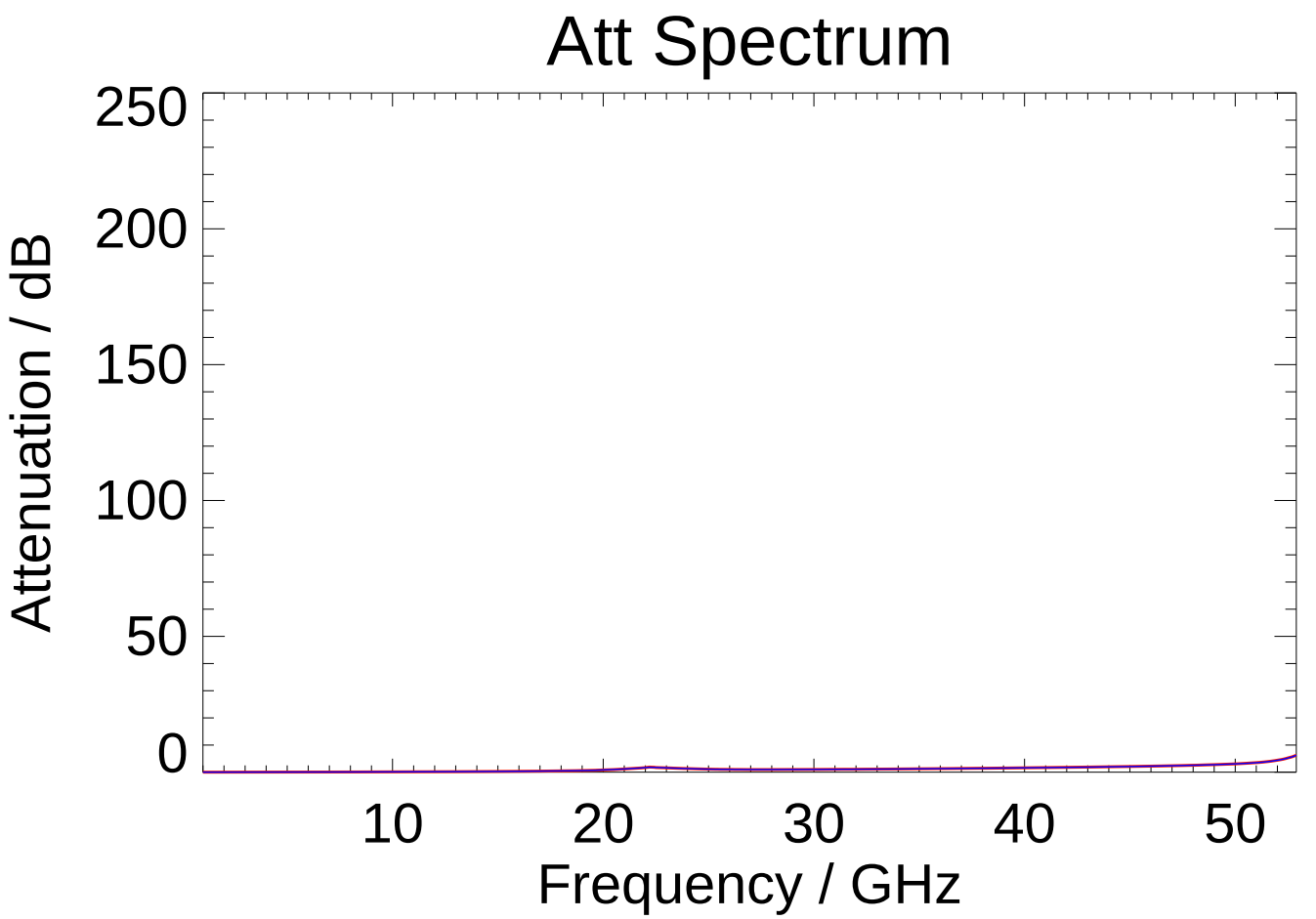
Frequency / GHz


Att Spectrum
Attenuation / dB
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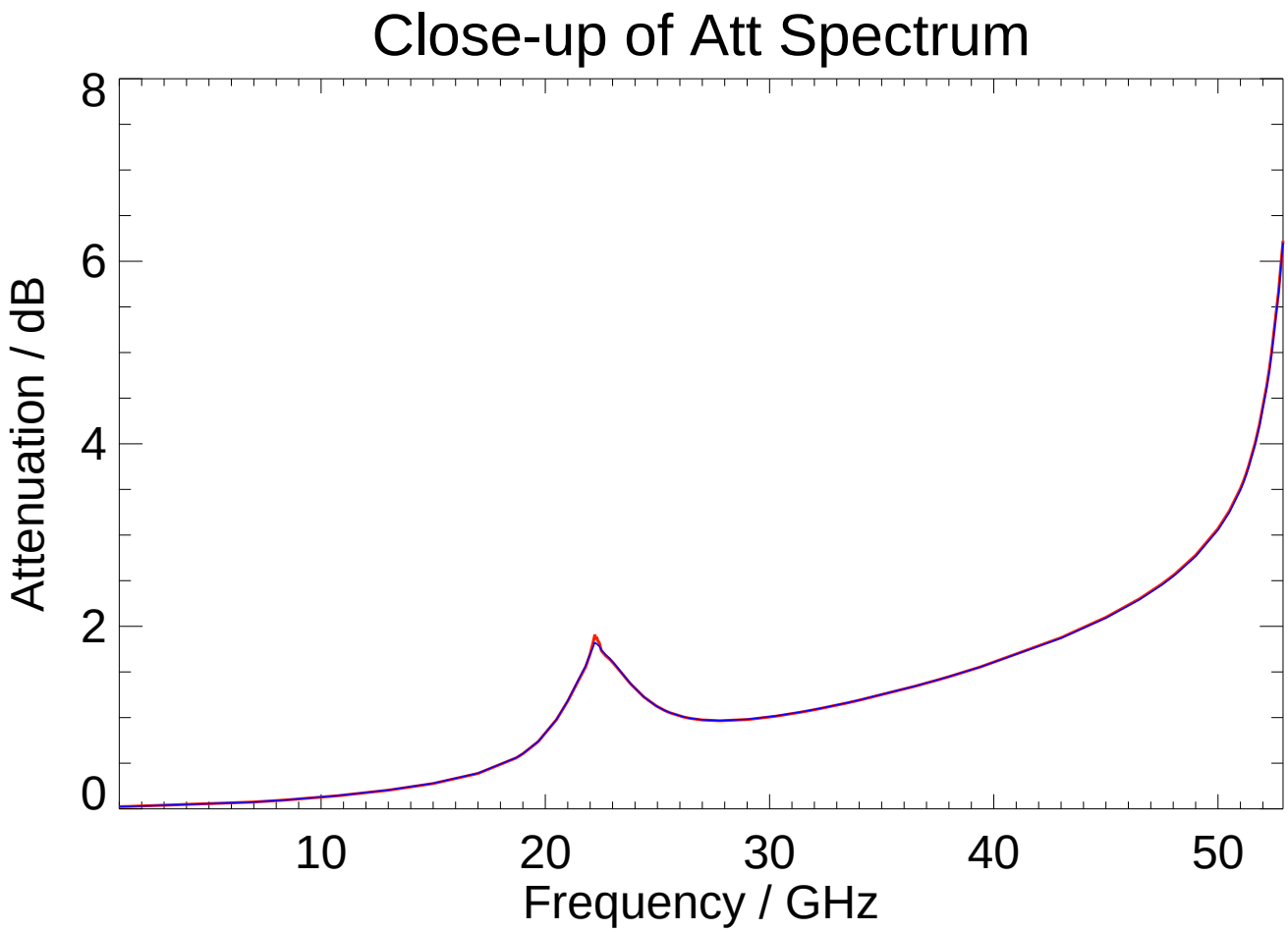
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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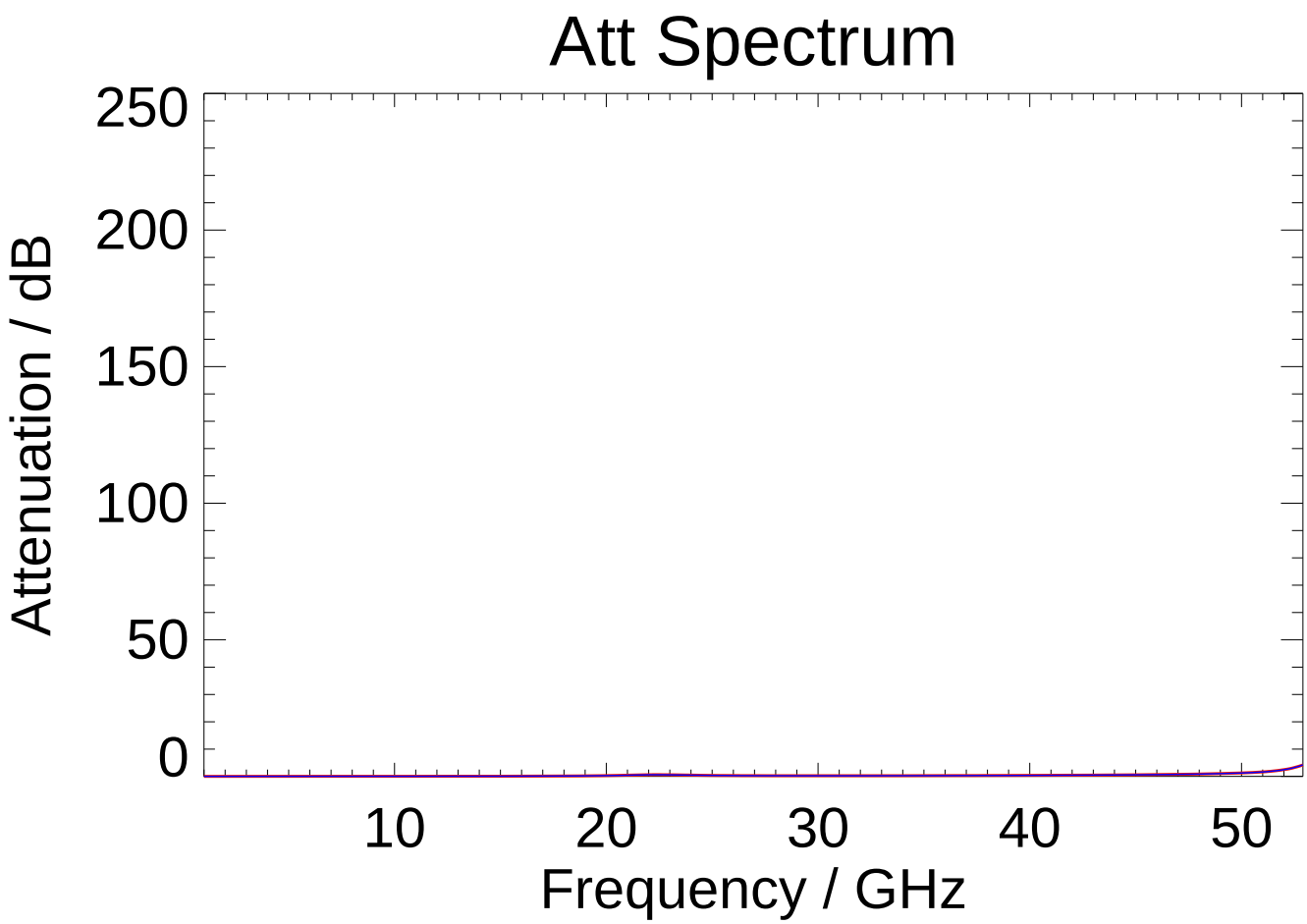
Frequency / GHz


Att Spectrum
Attenuation / dB
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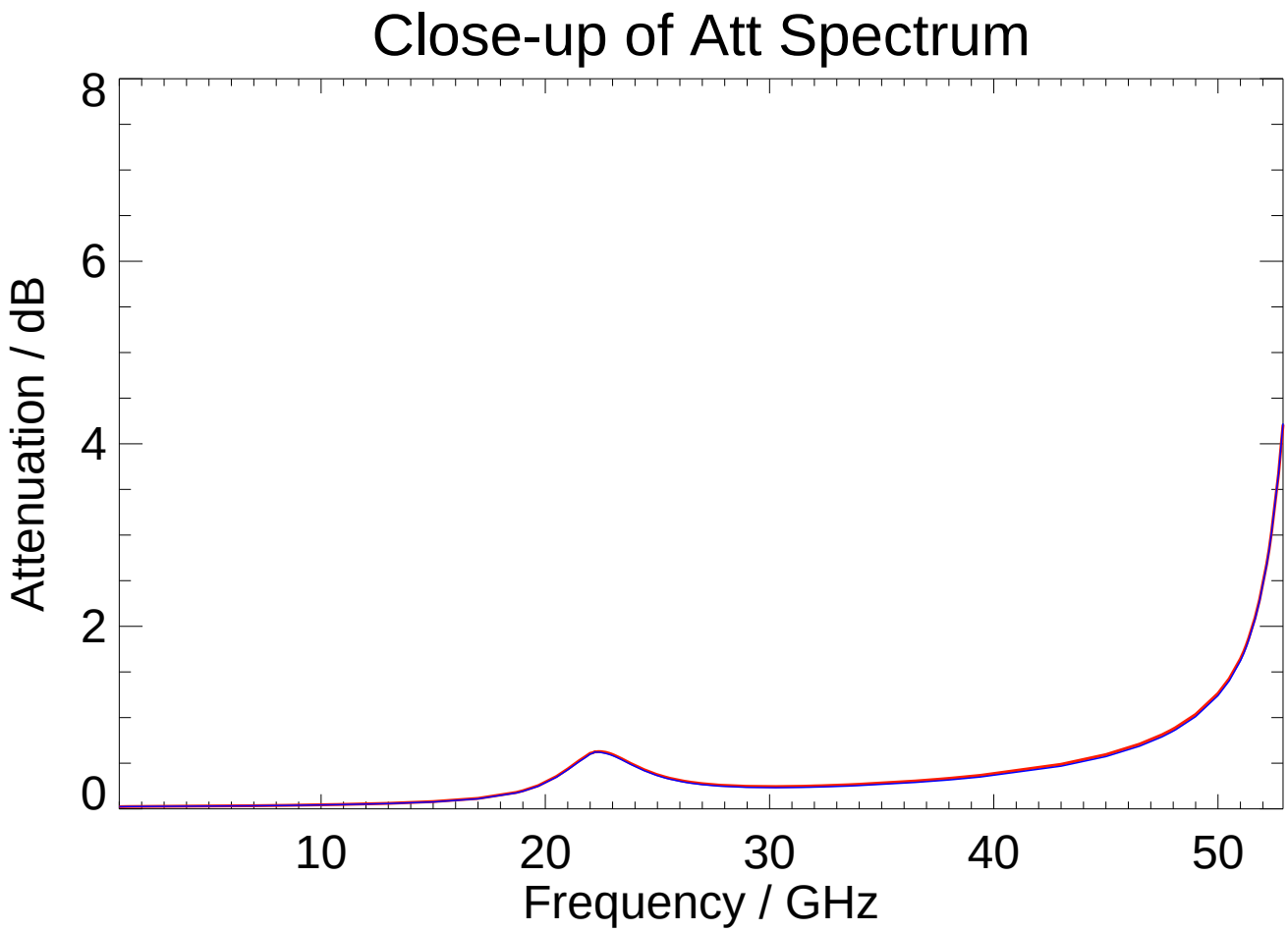
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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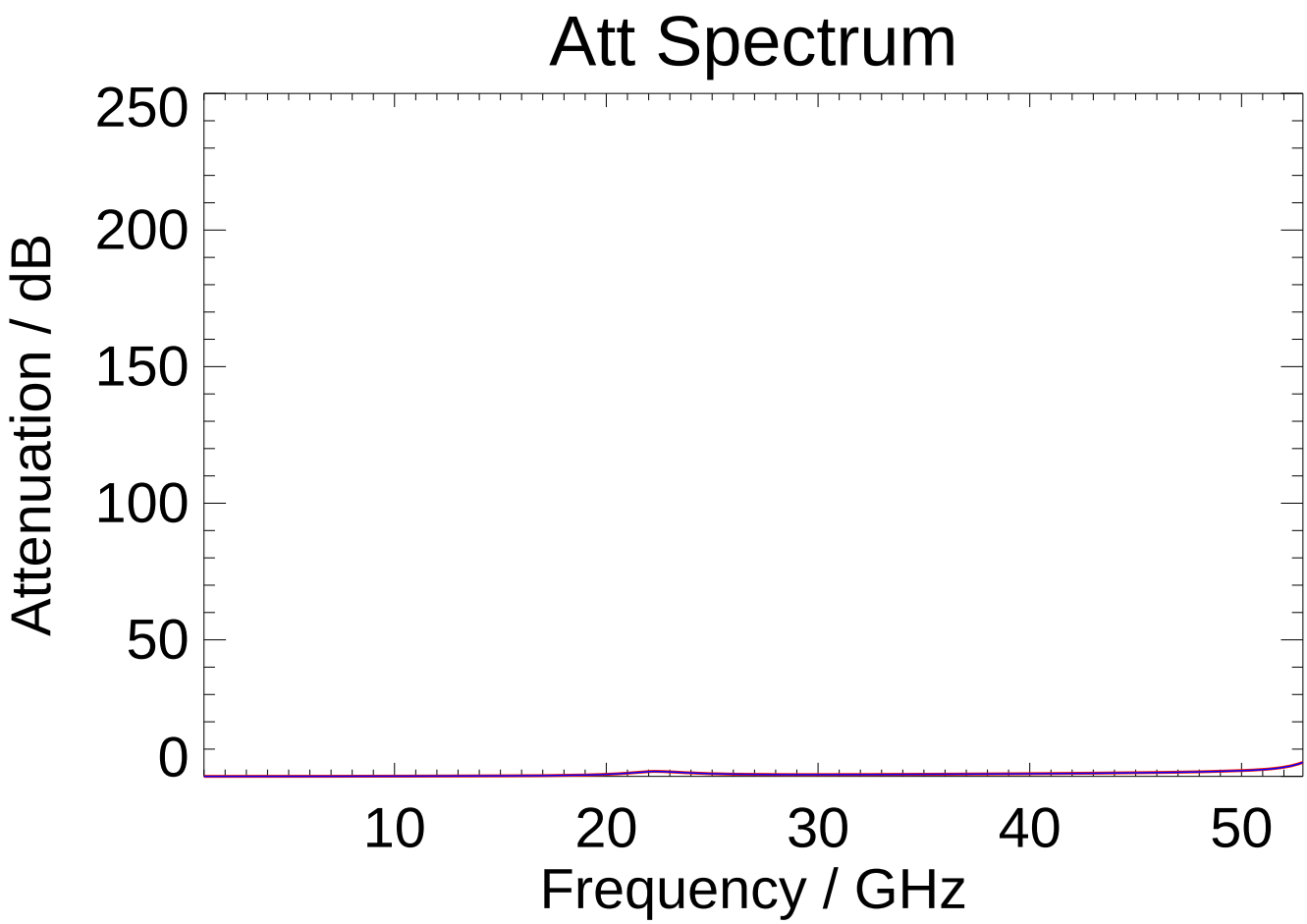
Frequency / GHz


Att Spectrum
Attenuation / dB
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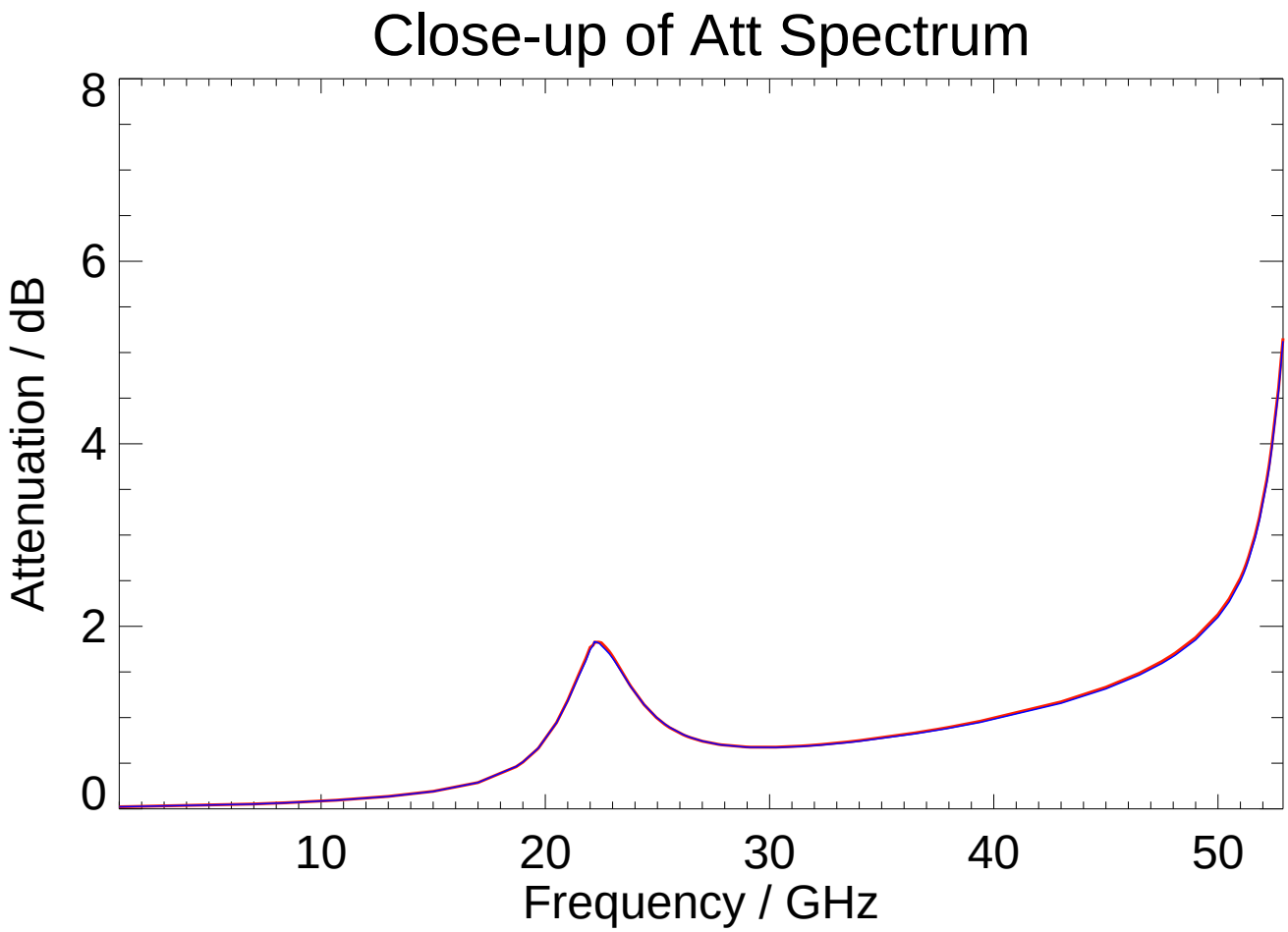
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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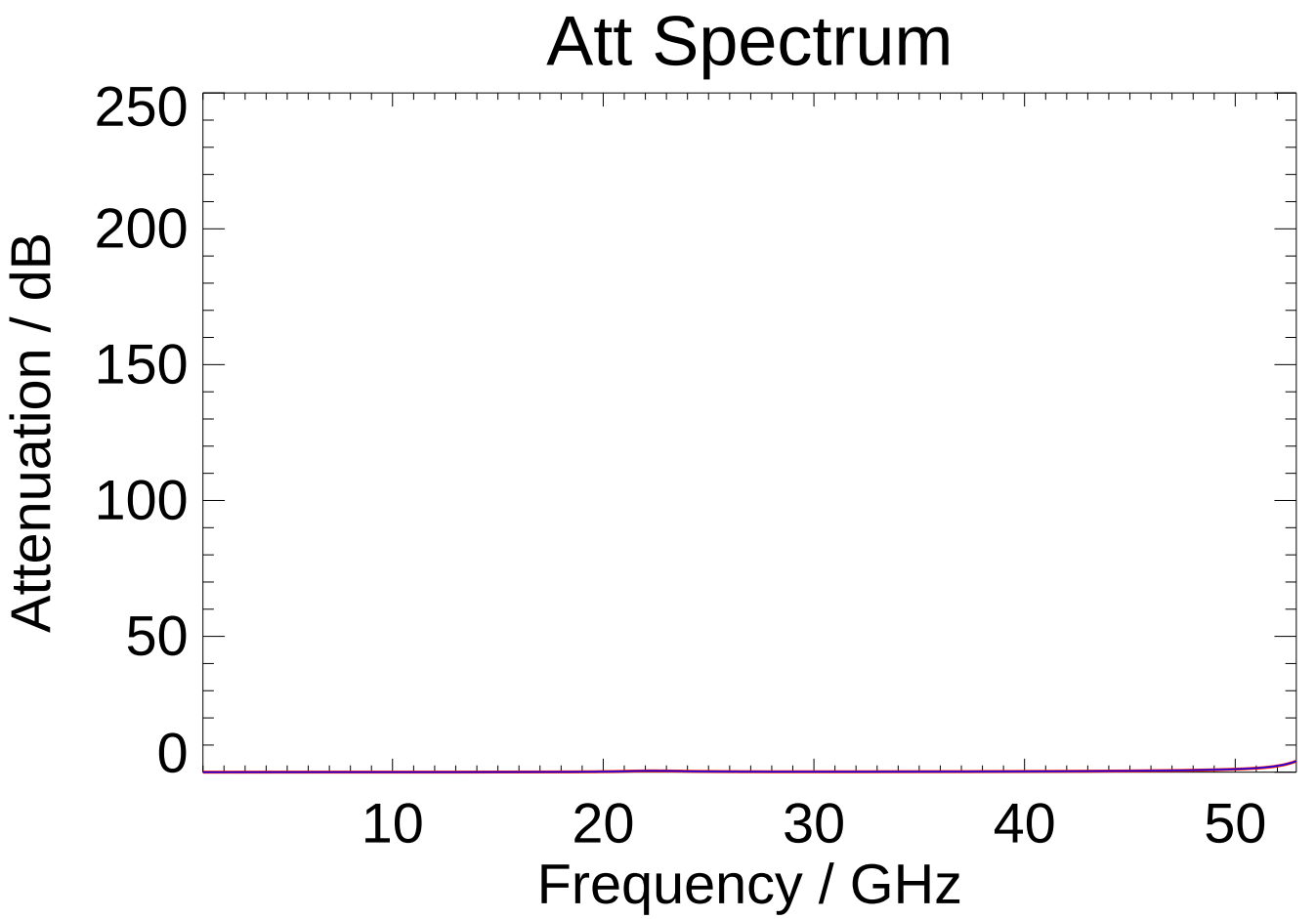
Frequency / GHz


Att Spectrum
Attenuation / dB
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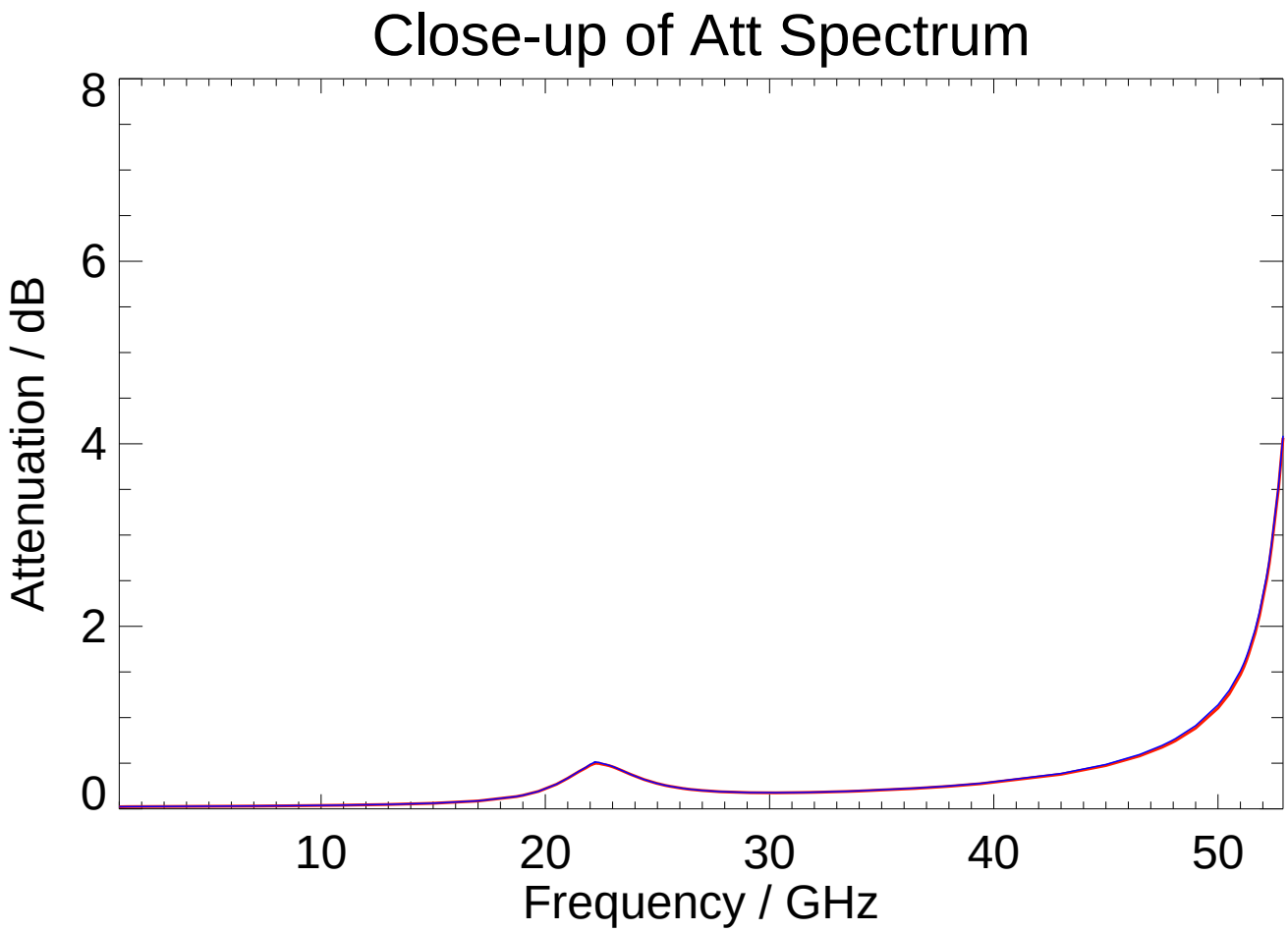
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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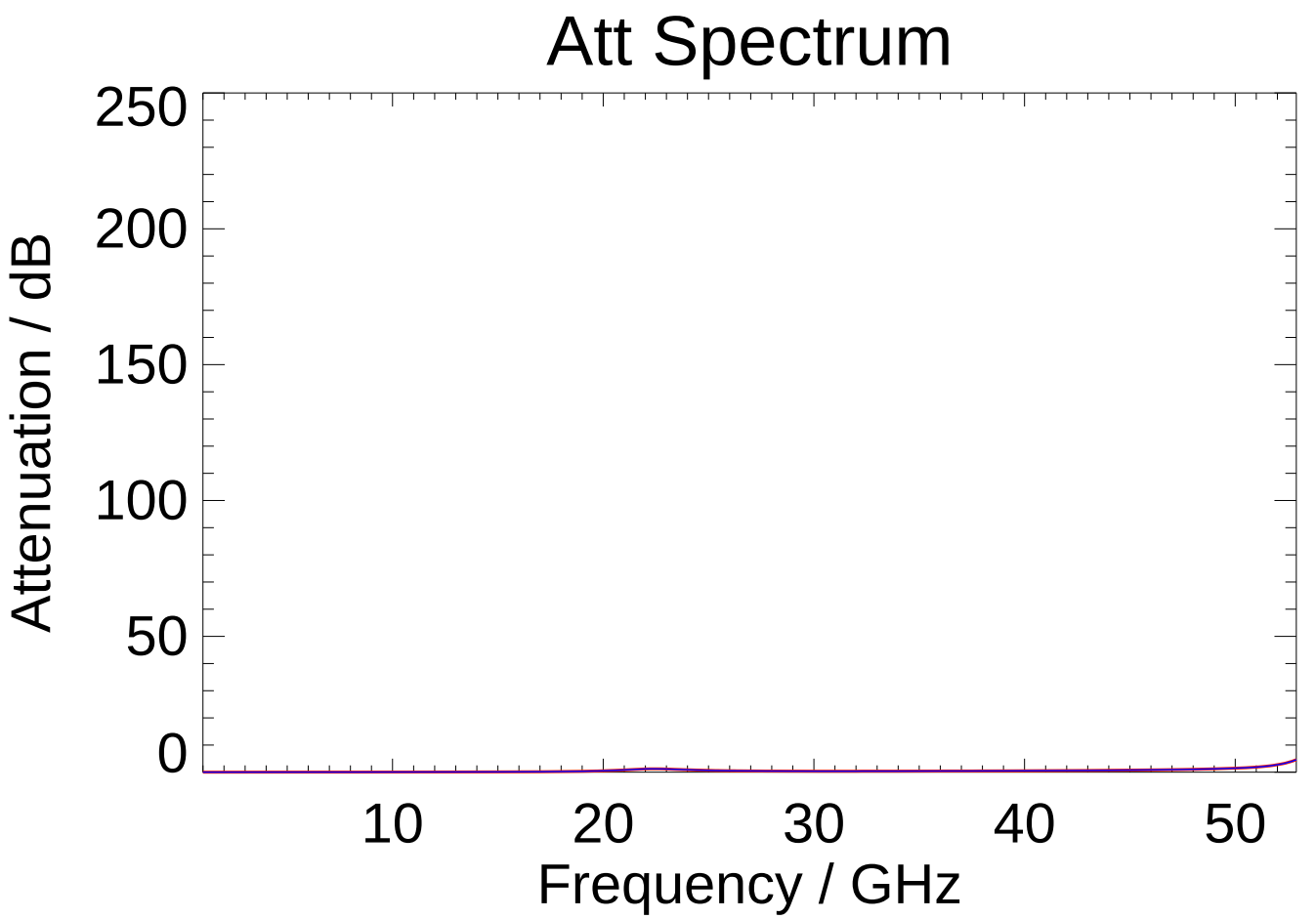
Frequency / GHz


Att Spectrum
Attenuation / dB
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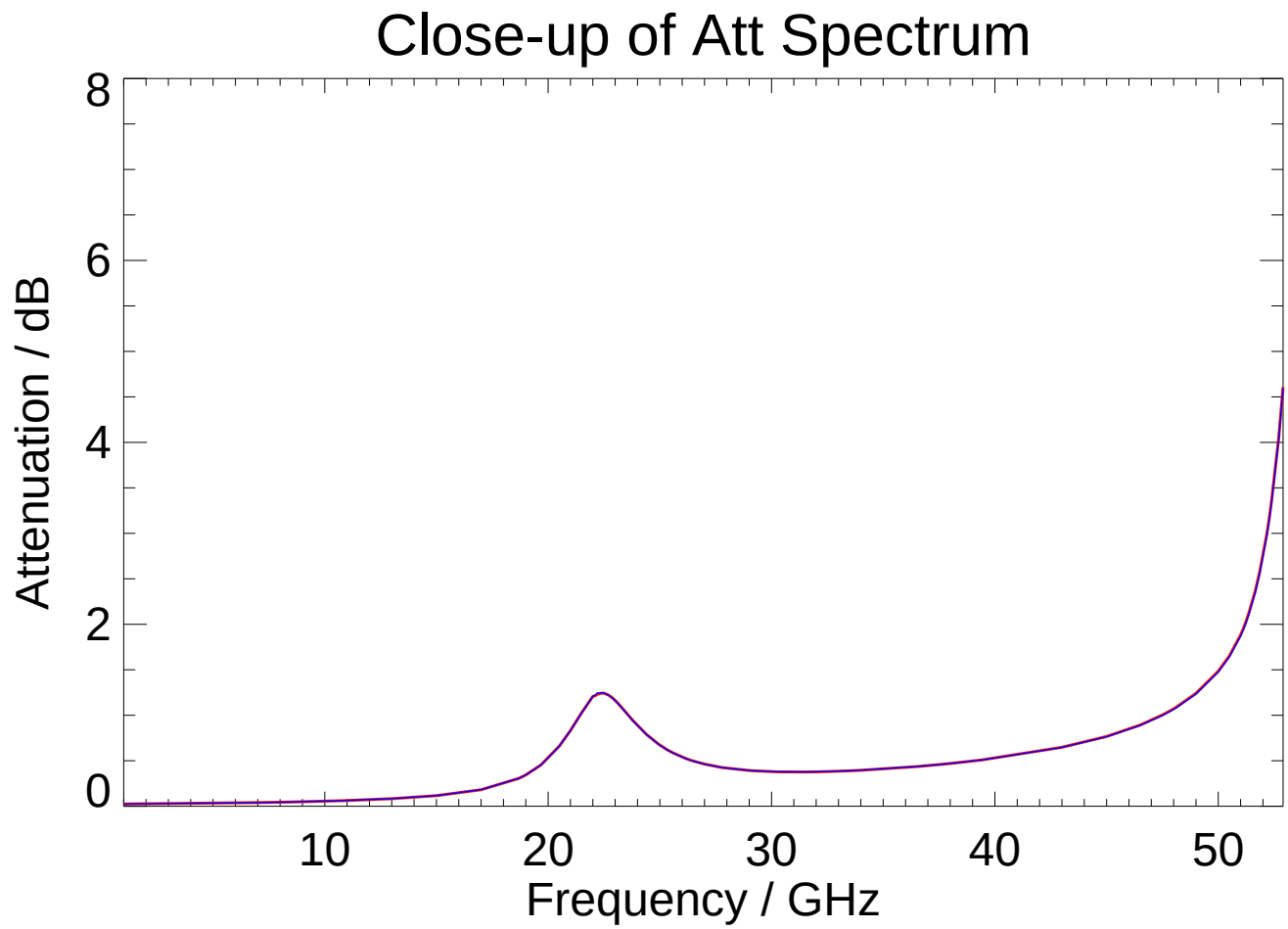
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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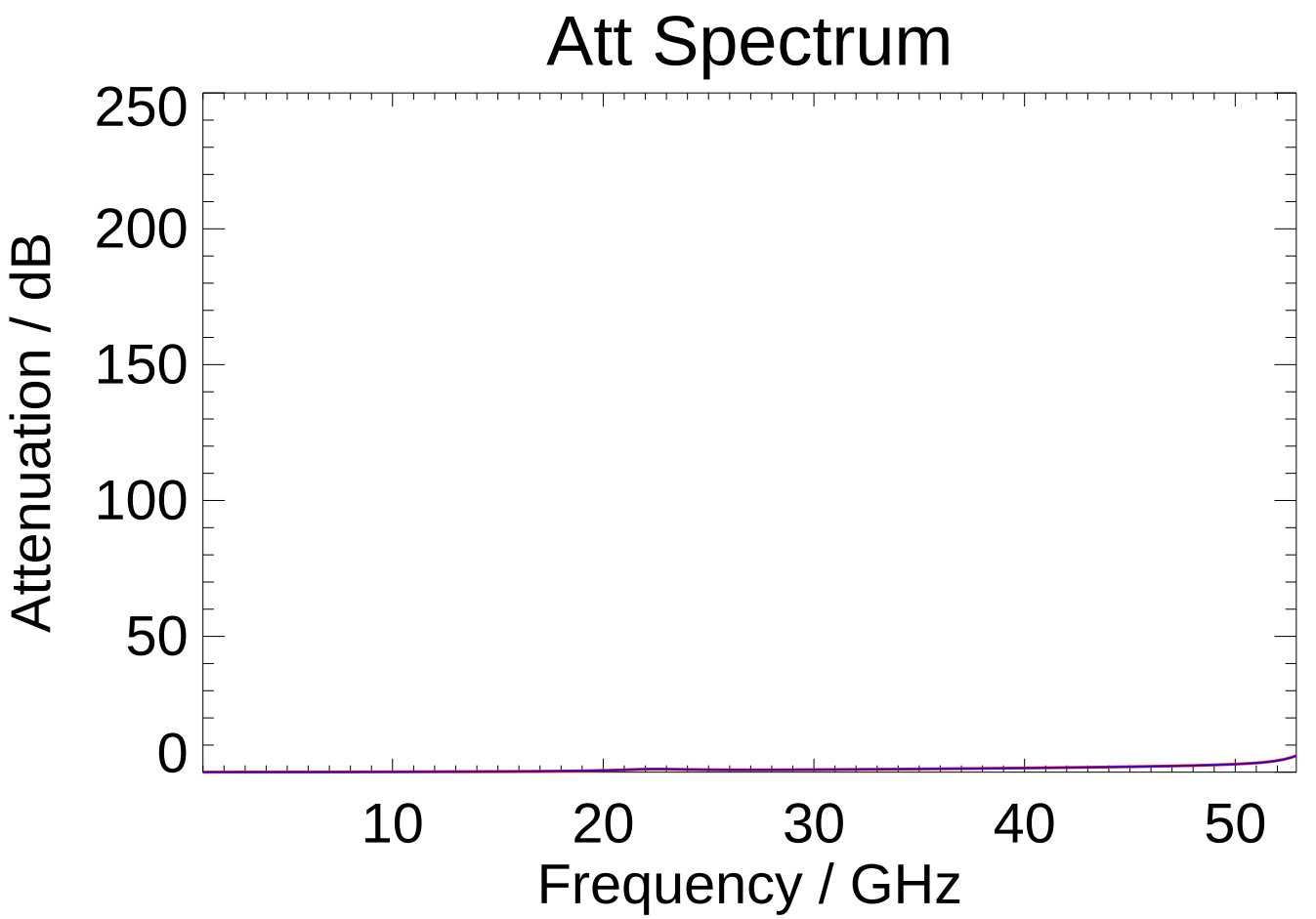
Frequency / GHz


Att Spectrum
Attenuation / dB
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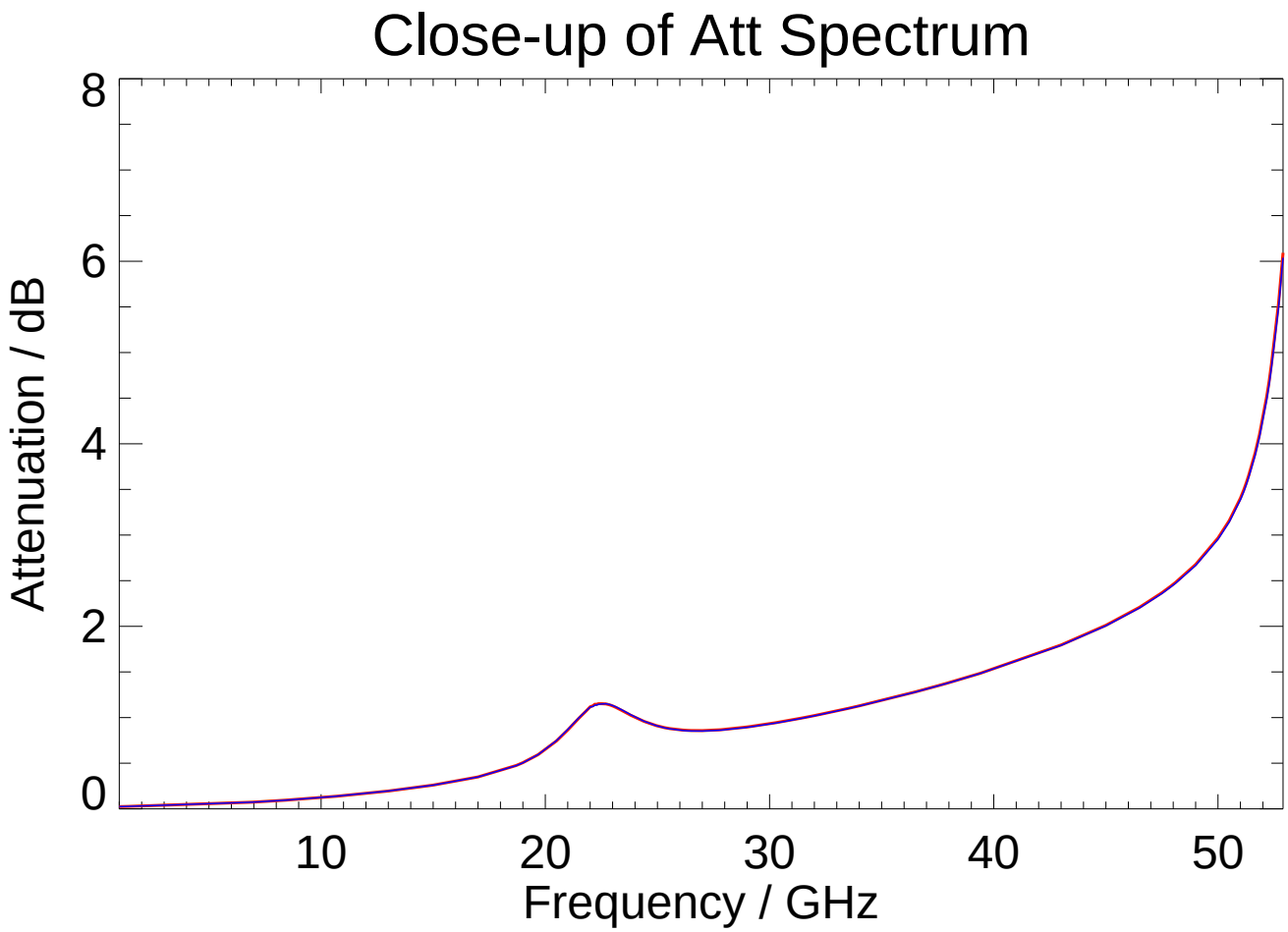
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
6
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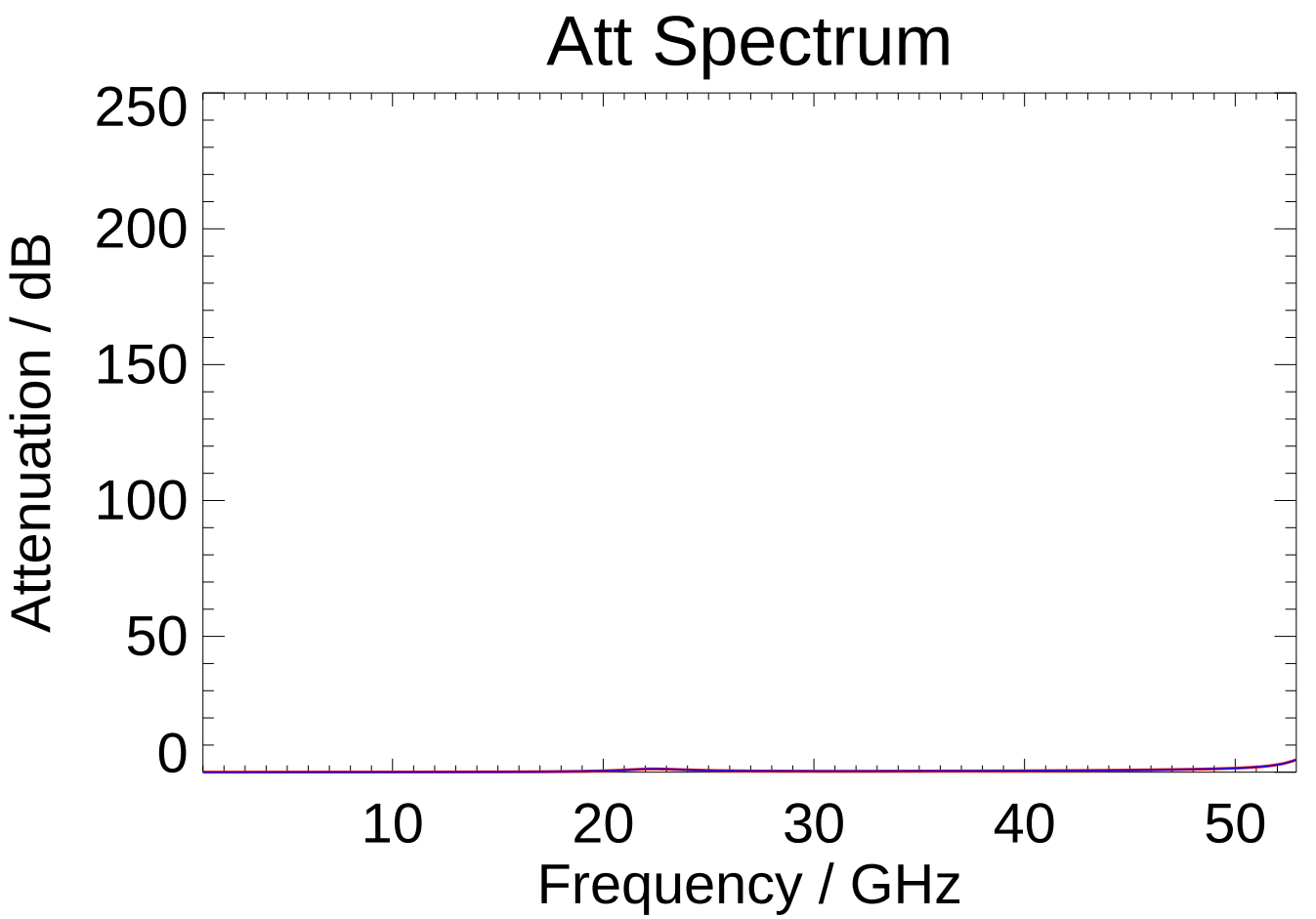
Frequency / GHz


Att Spectrum
Attenuation / dB
250
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100
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40
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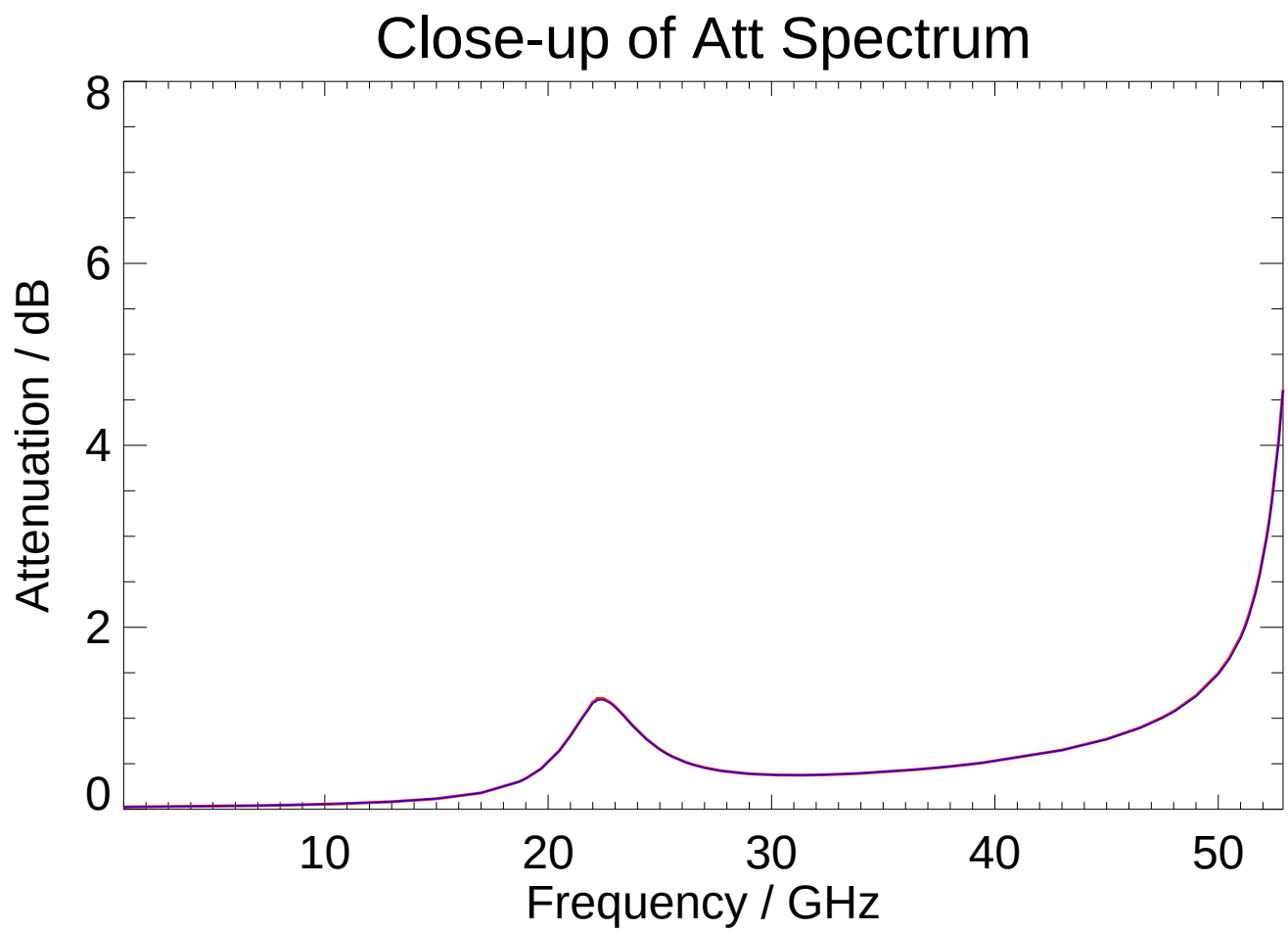
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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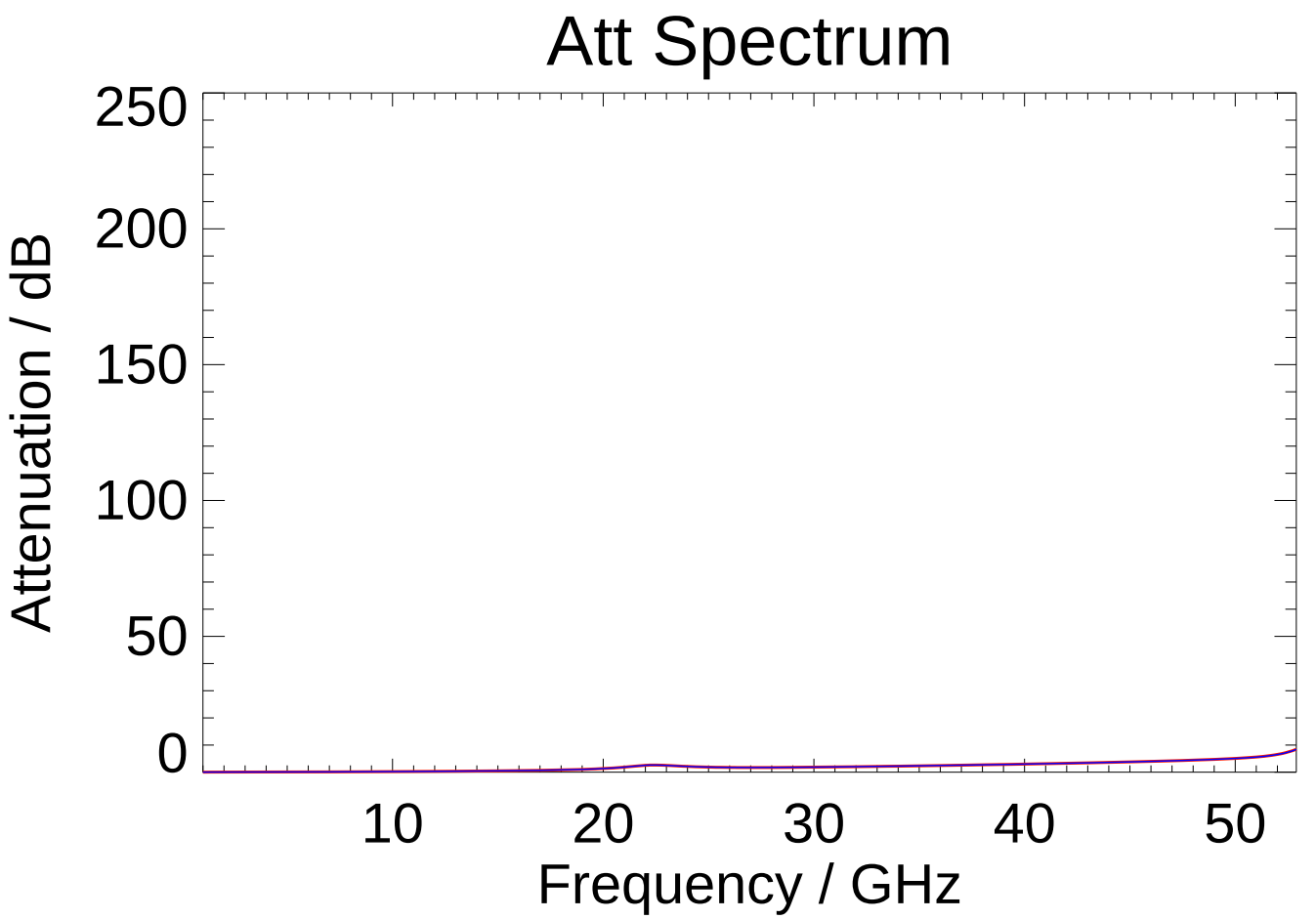
Frequency / GHz


Att Spectrum
Attenuation / dB
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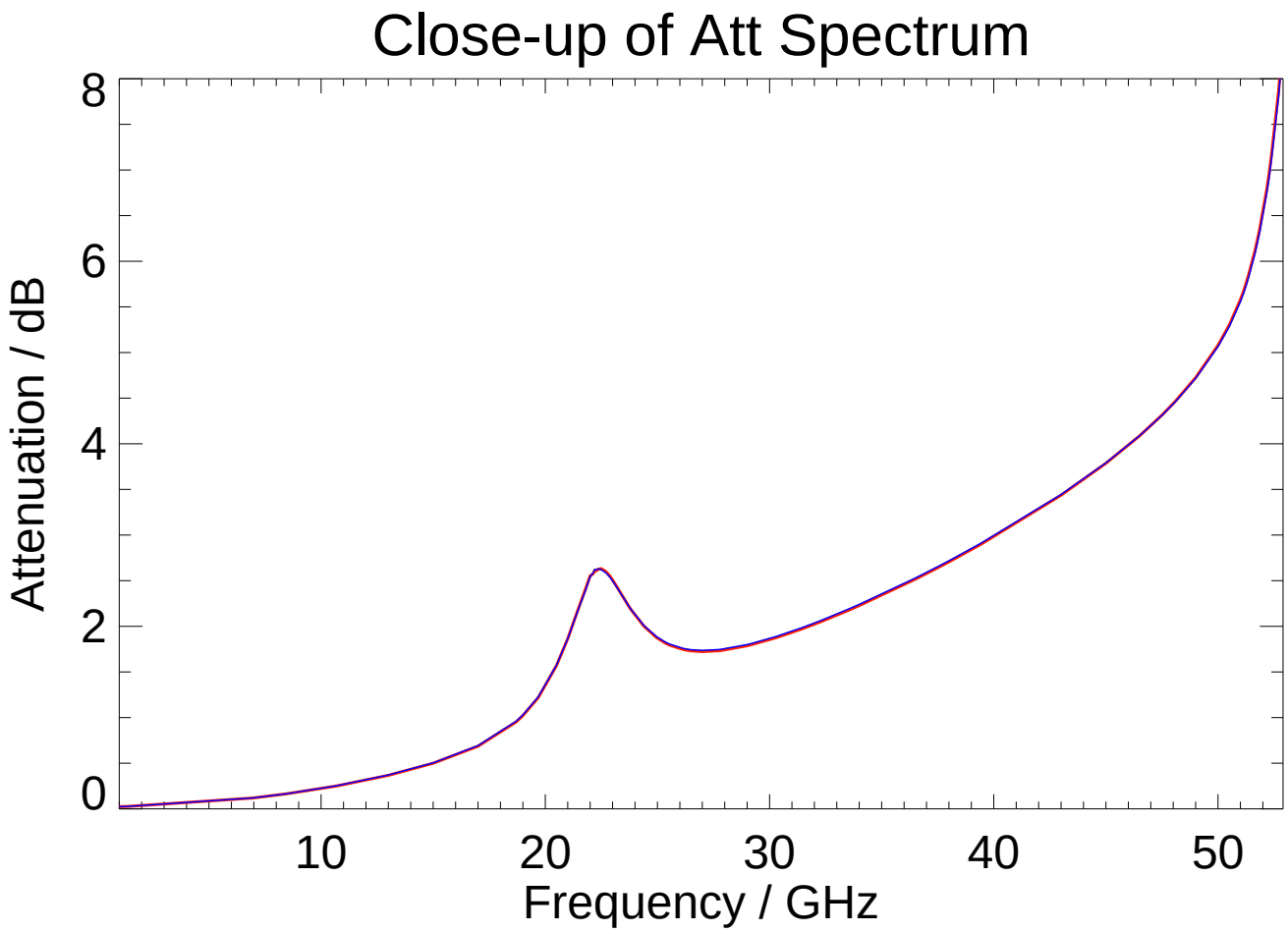
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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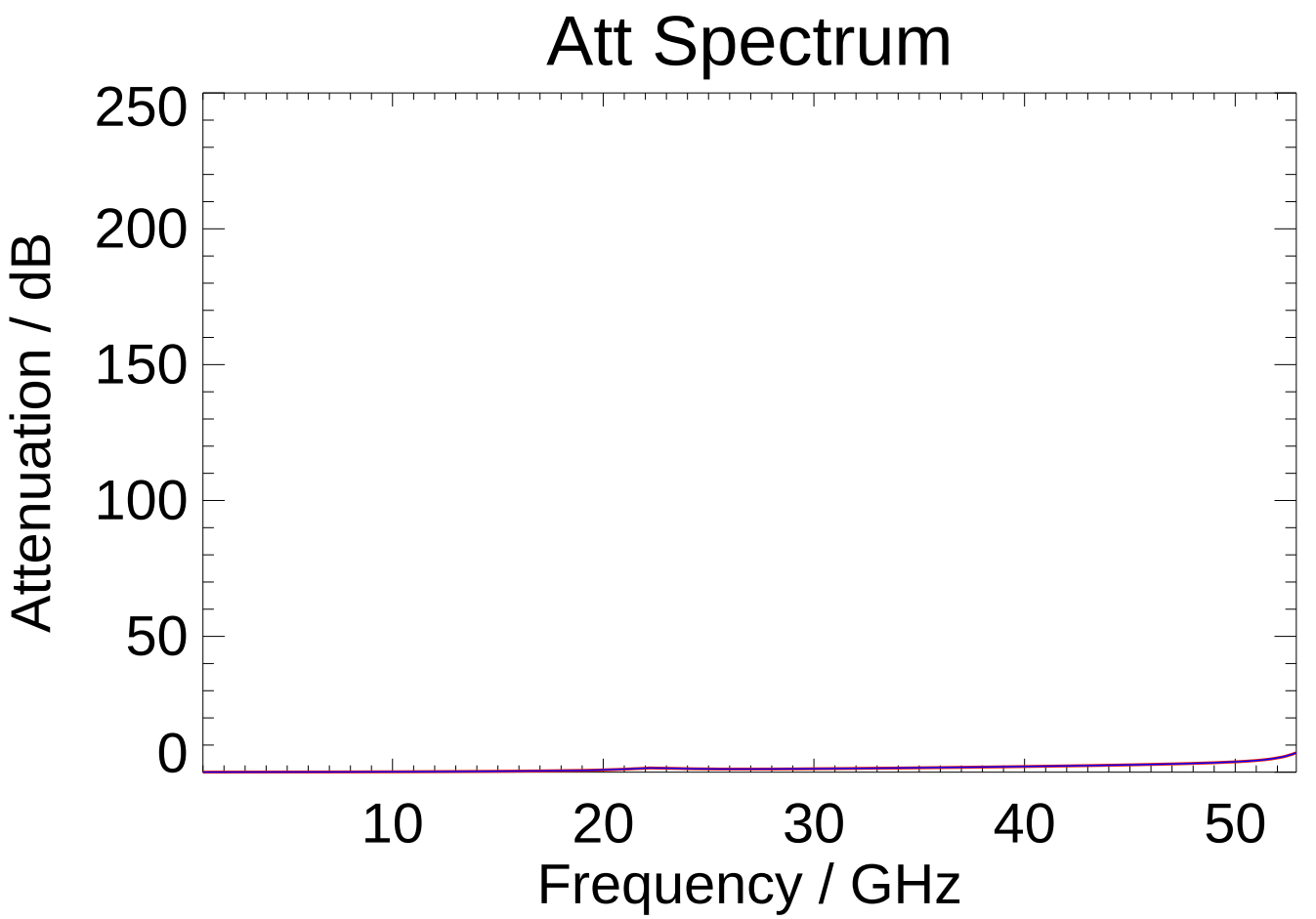
Frequency / GHz


Att Spectrum
Attenuation / dB
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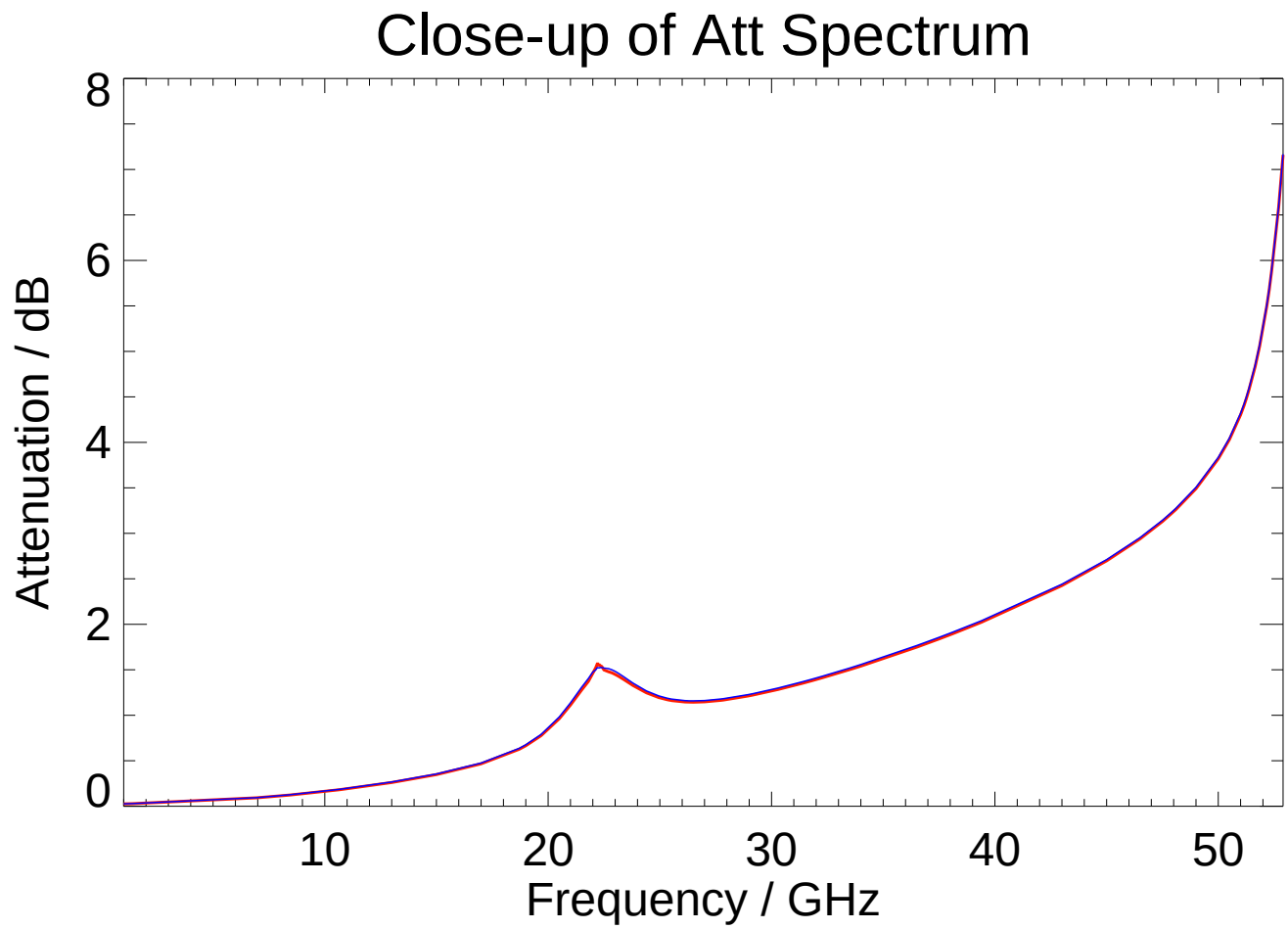
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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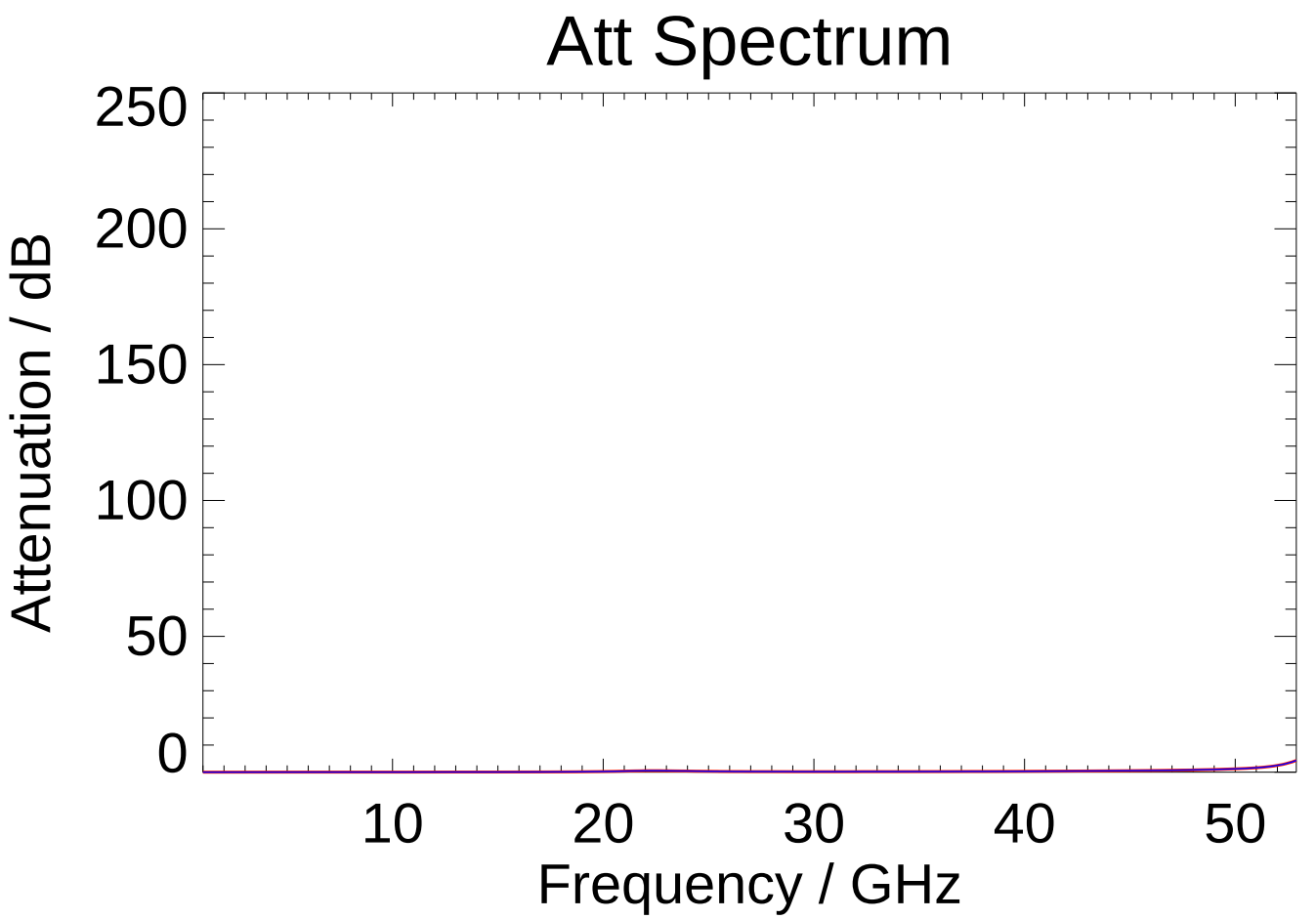
Frequency / GHz


Att Spectrum
Attenuation / dB
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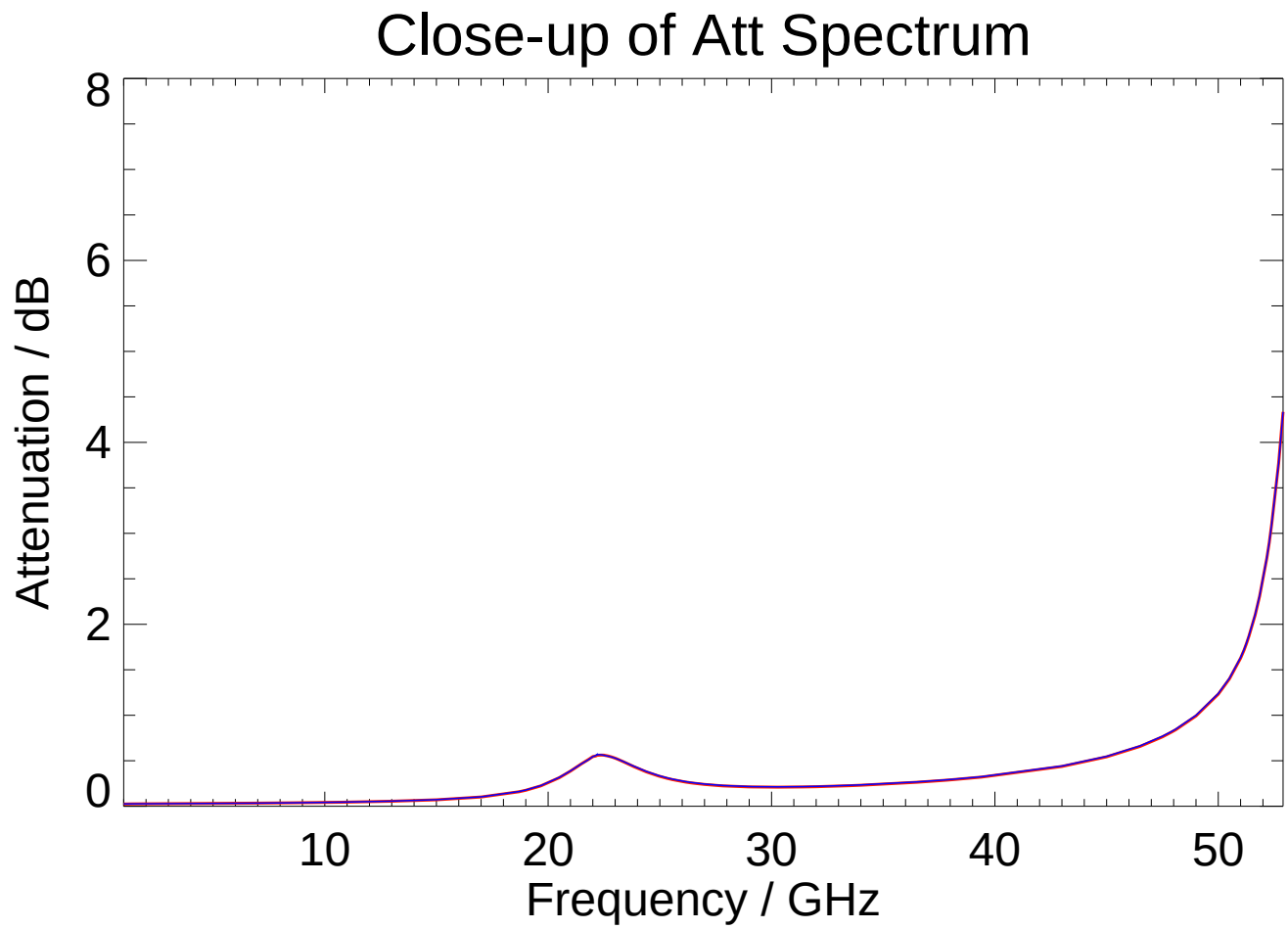
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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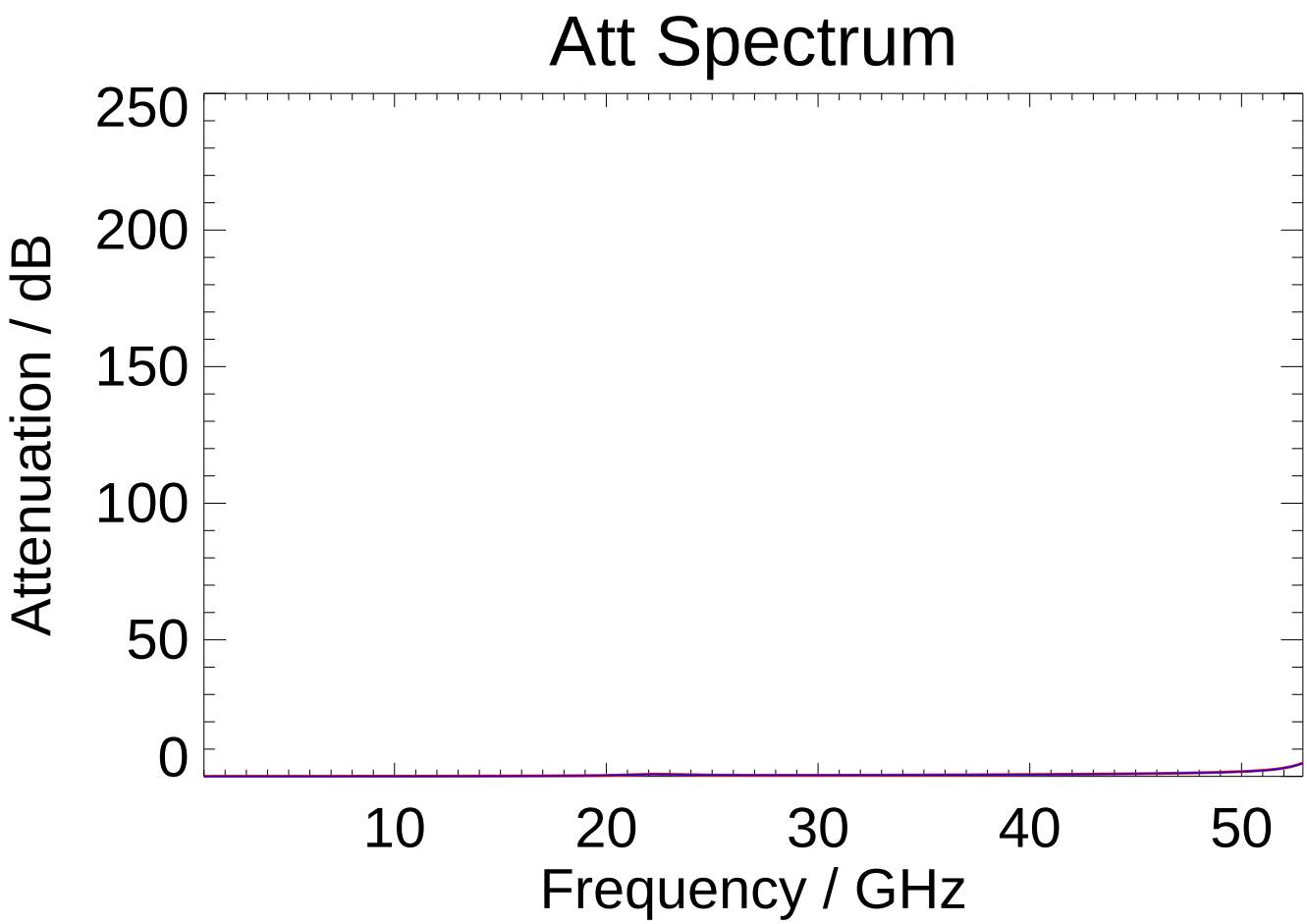
Frequency / GHz


Att Spectrum
Attenuation / dB
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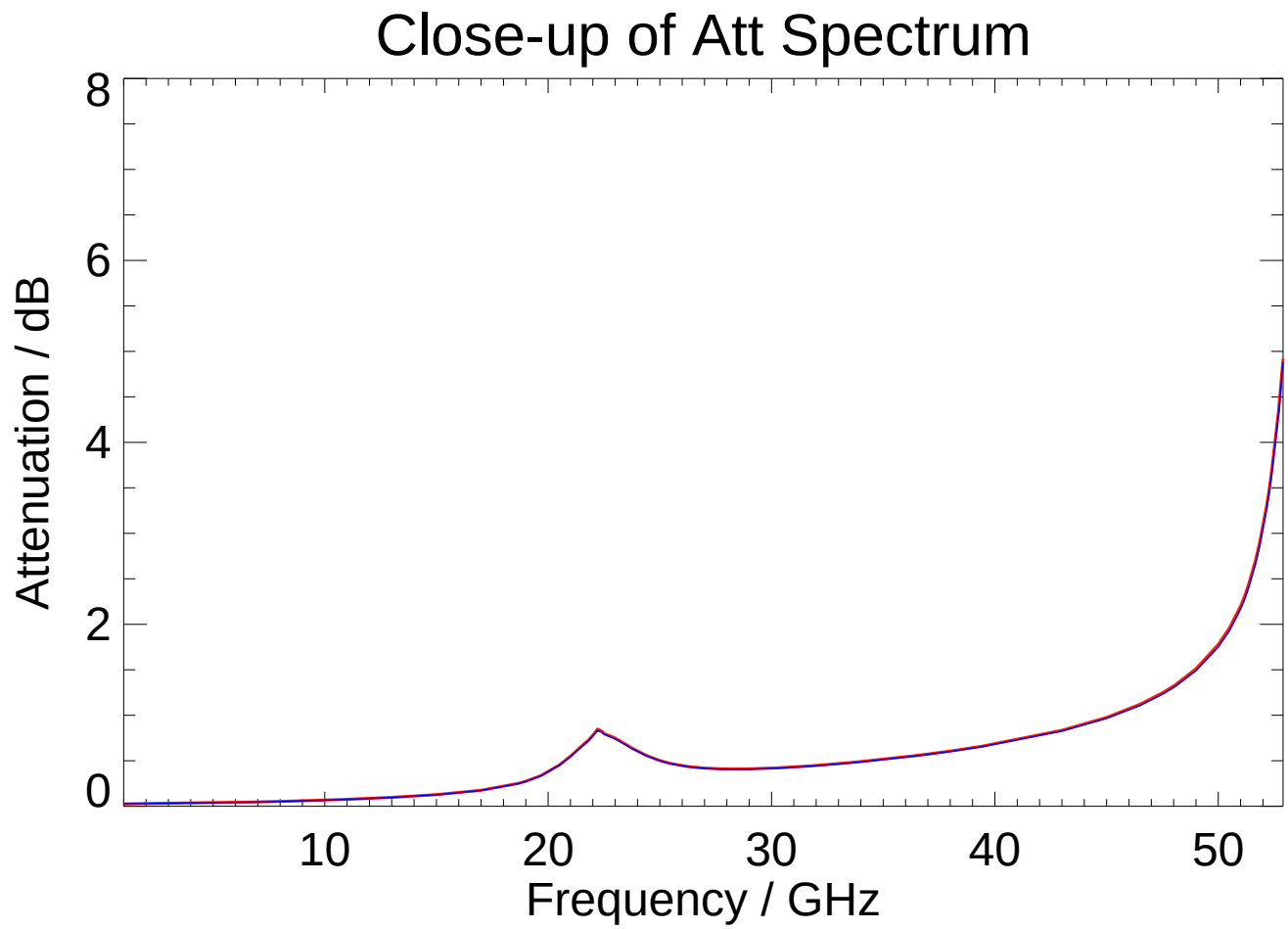
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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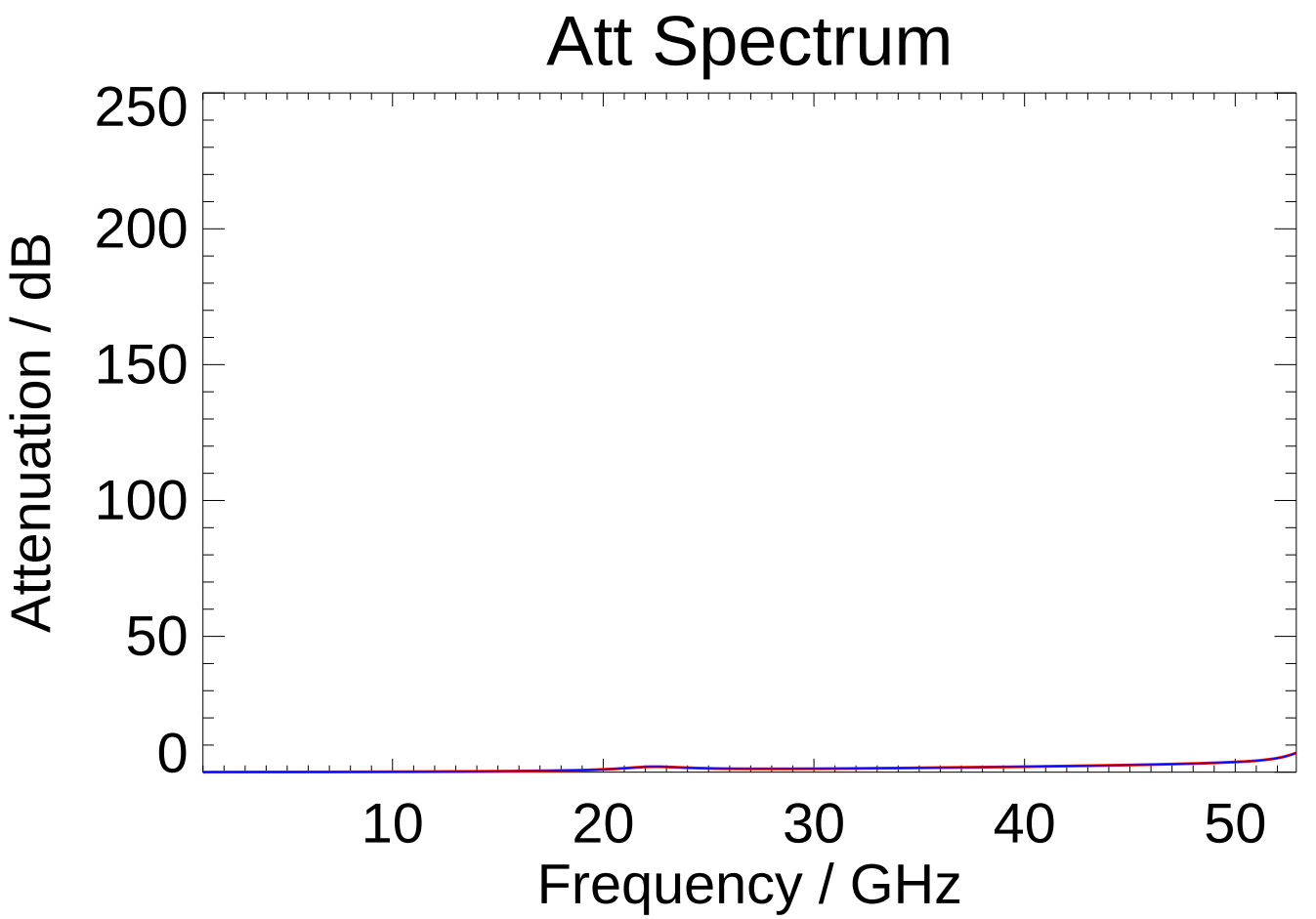
Frequency / GHz


Att Spectrum
Attenuation / dB
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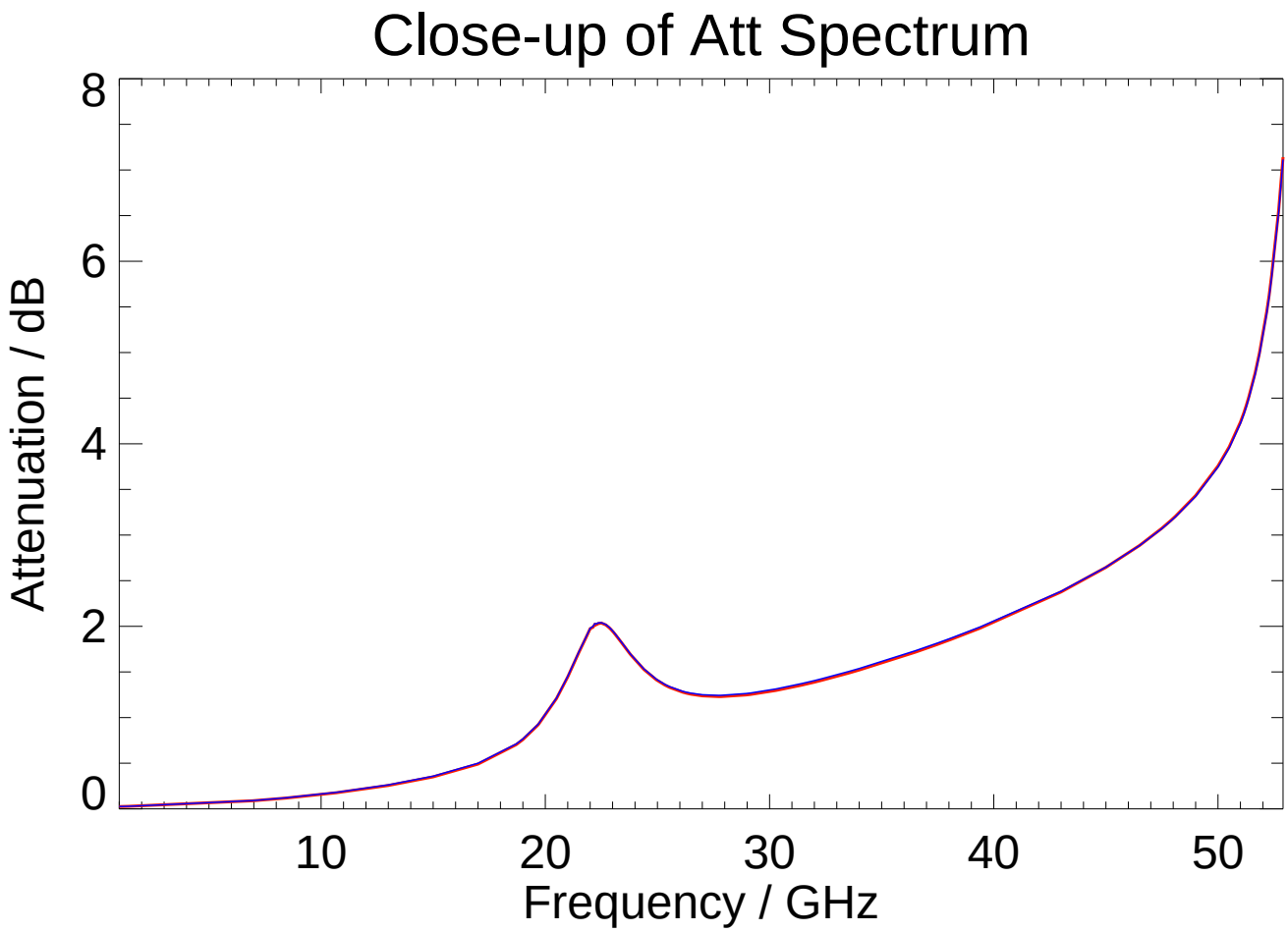
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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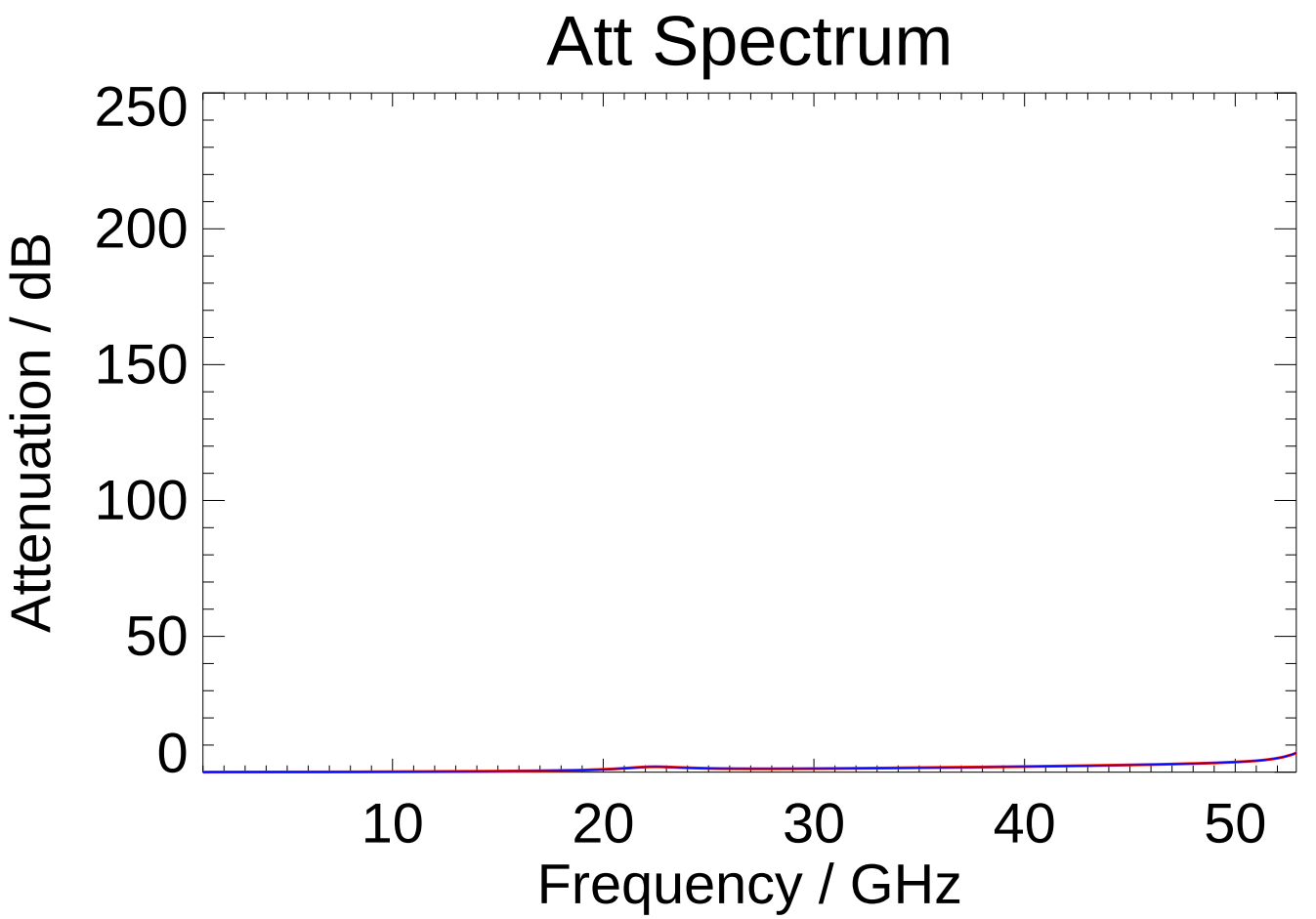
Frequency / GHz


Att Spectrum
Attenuation / dB
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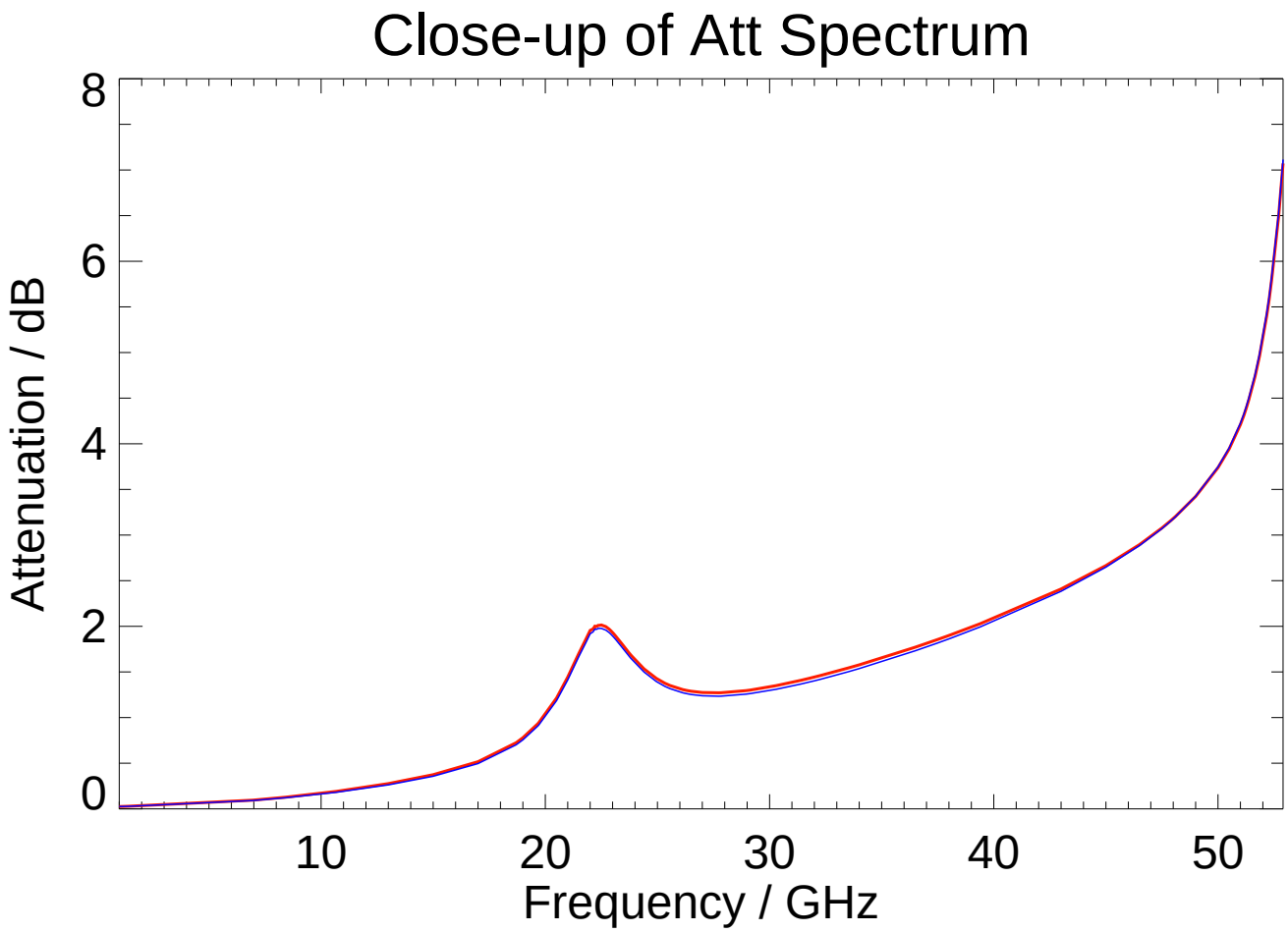
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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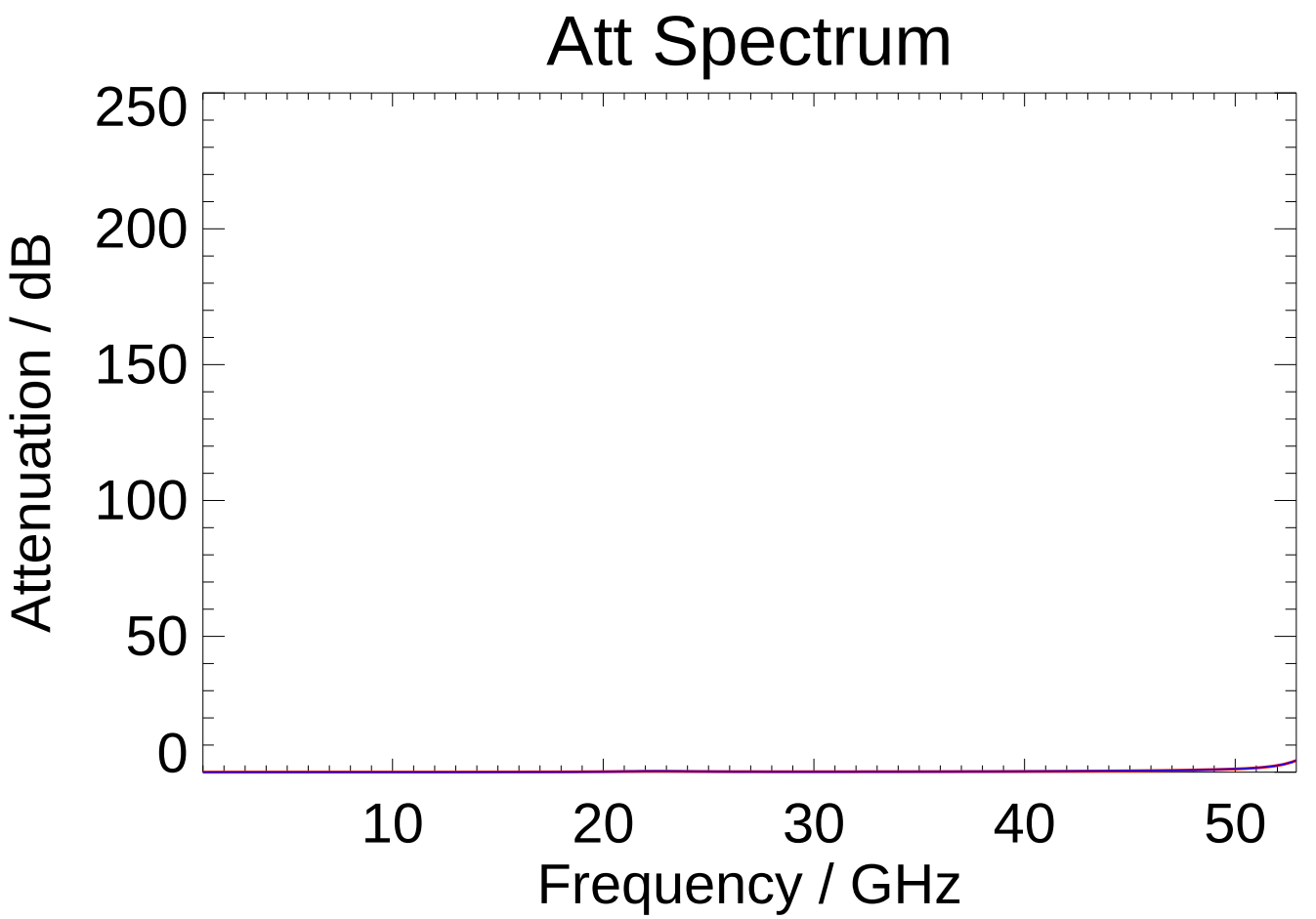
Frequency / GHz


Att Spectrum
Attenuation / dB
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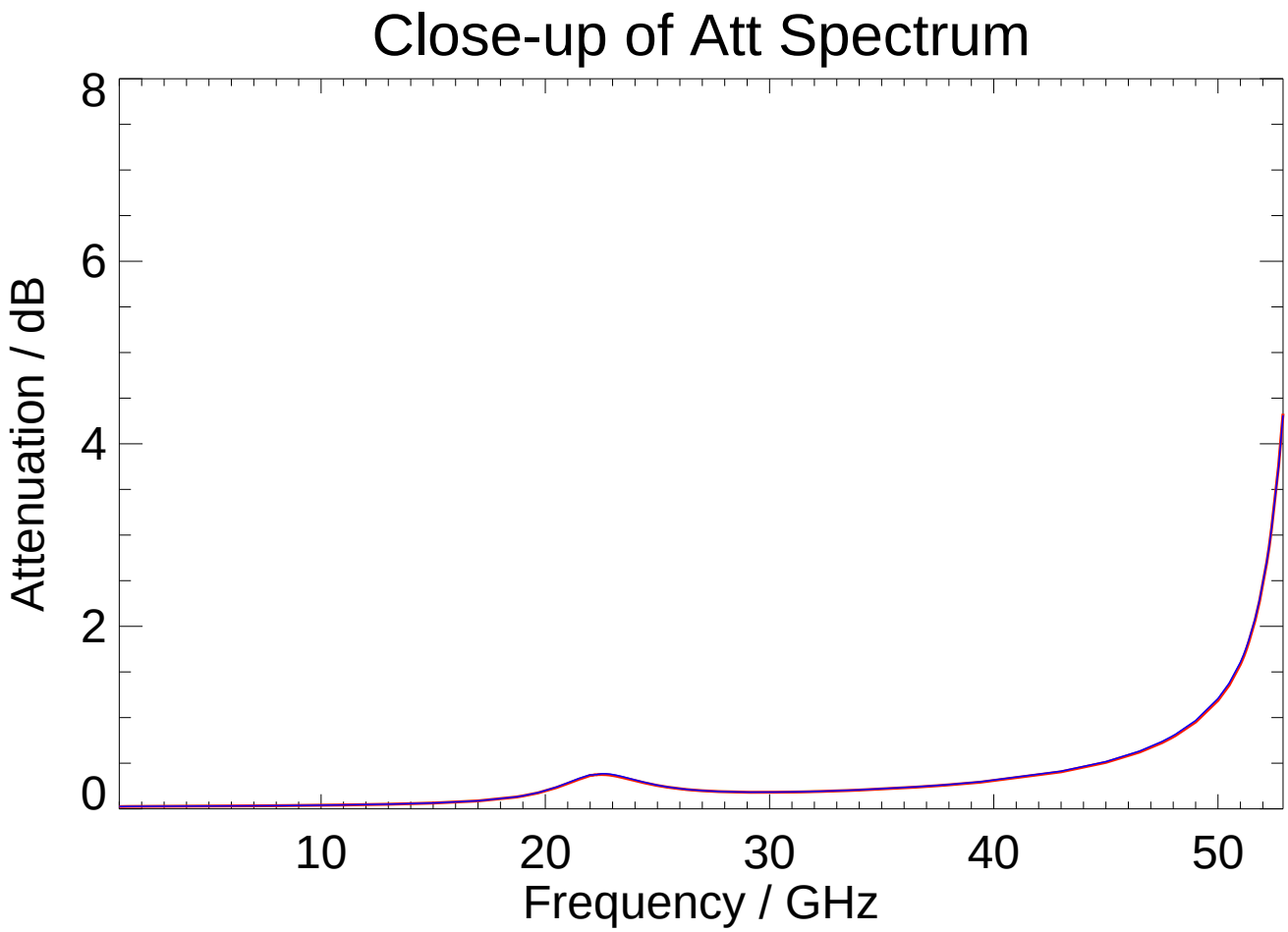
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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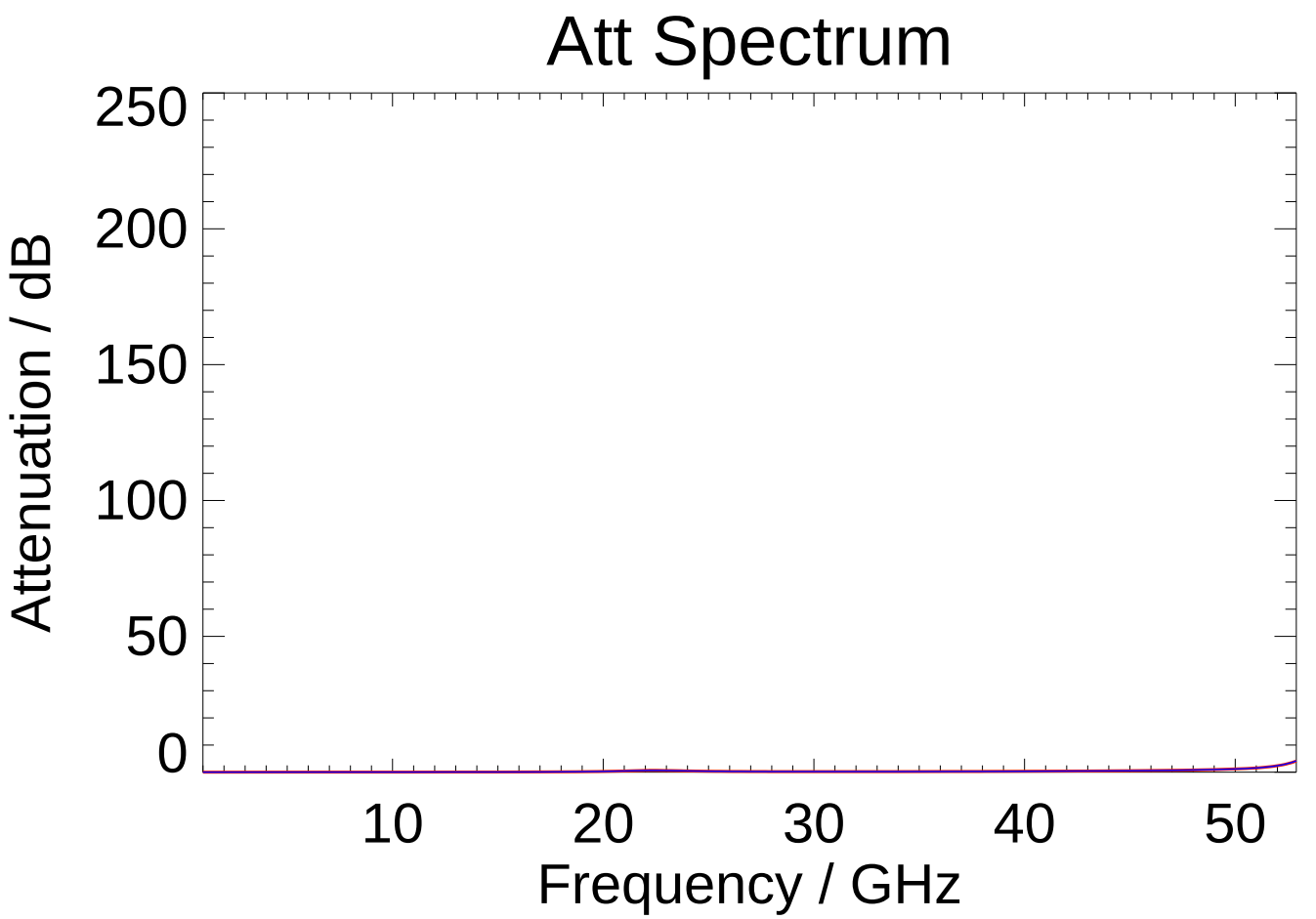
Frequency / GHz


Att Spectrum
Attenuation / dB
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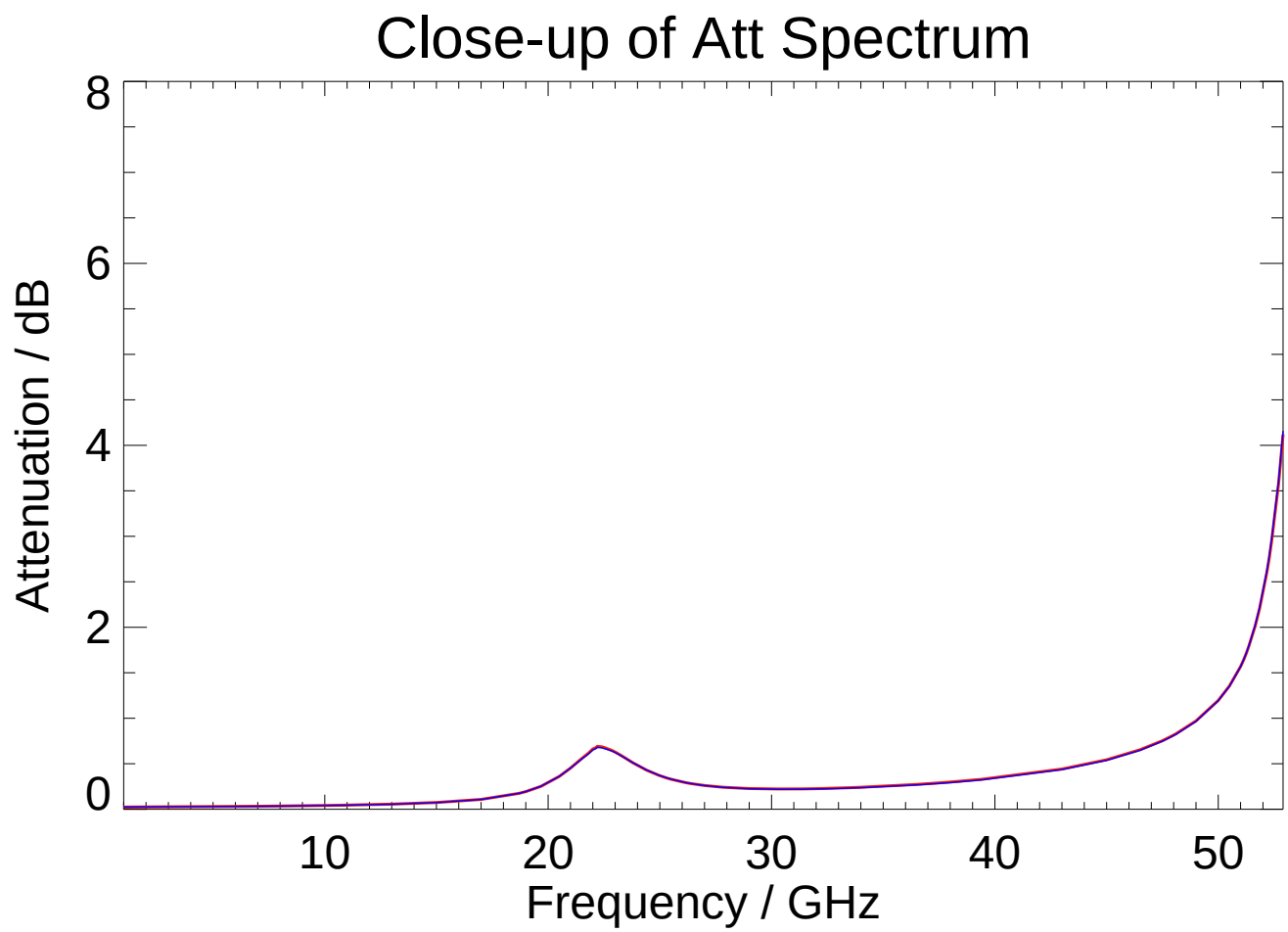
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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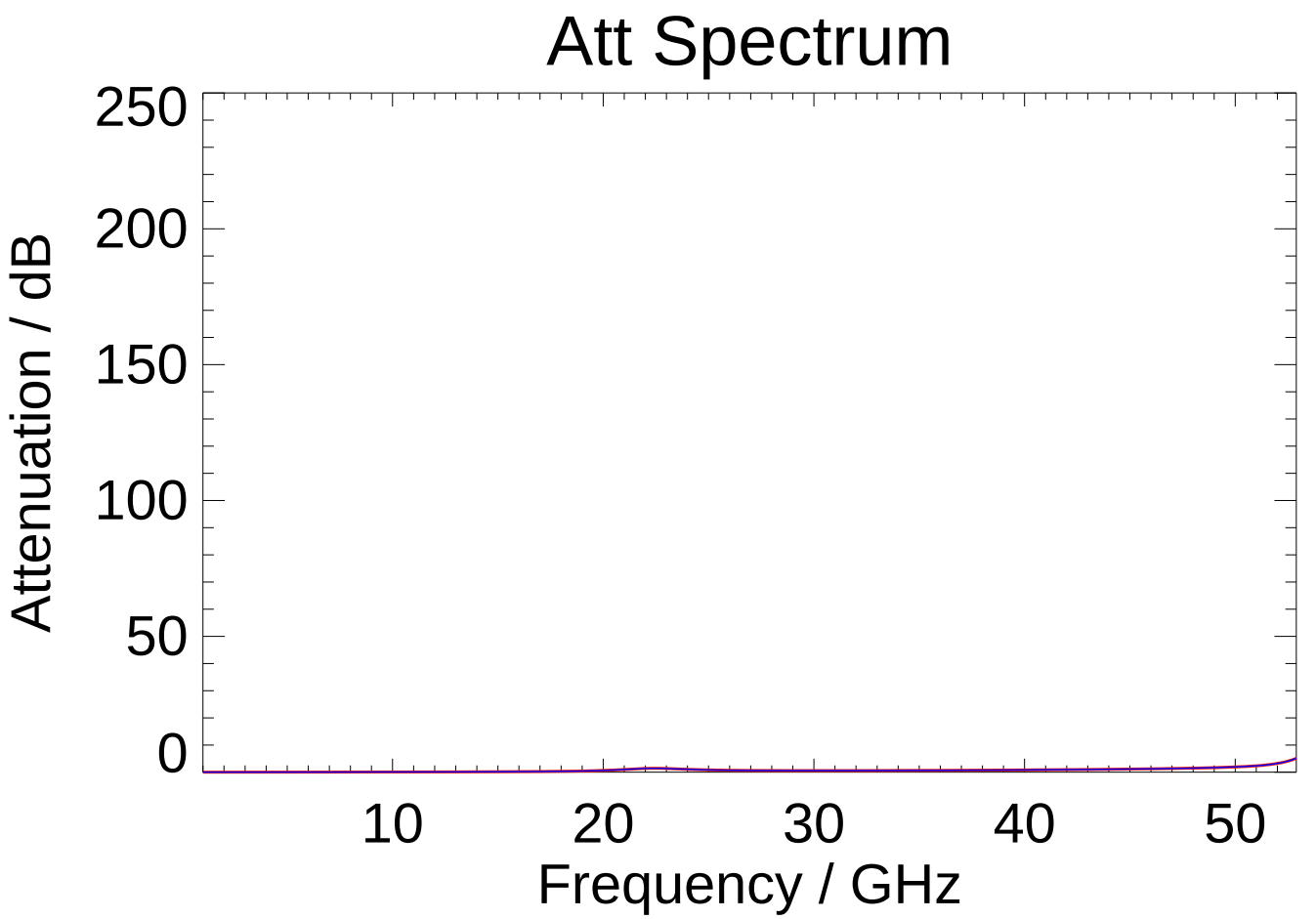
Frequency / GHz


Att Spectrum
Attenuation / dB
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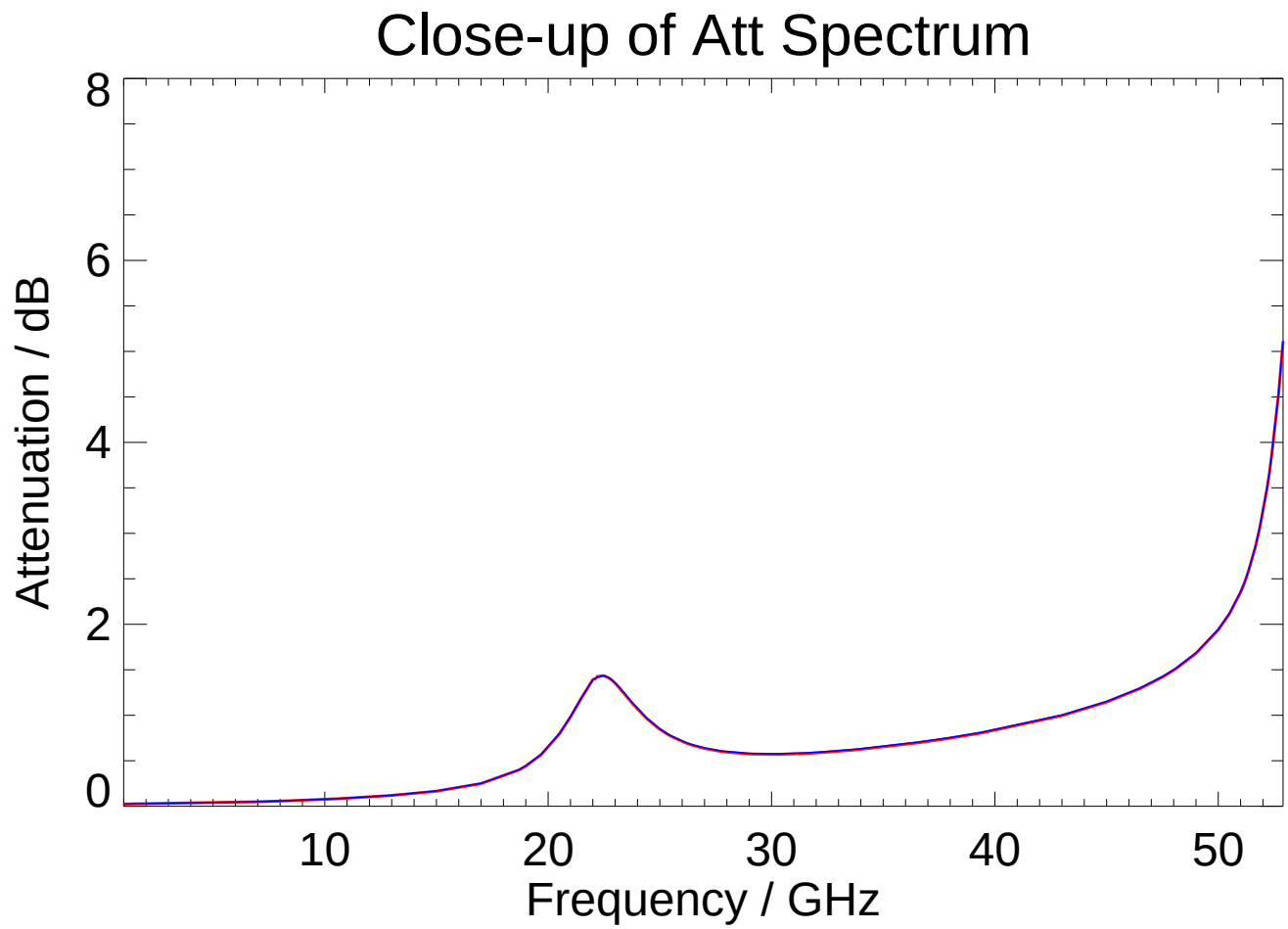
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
8
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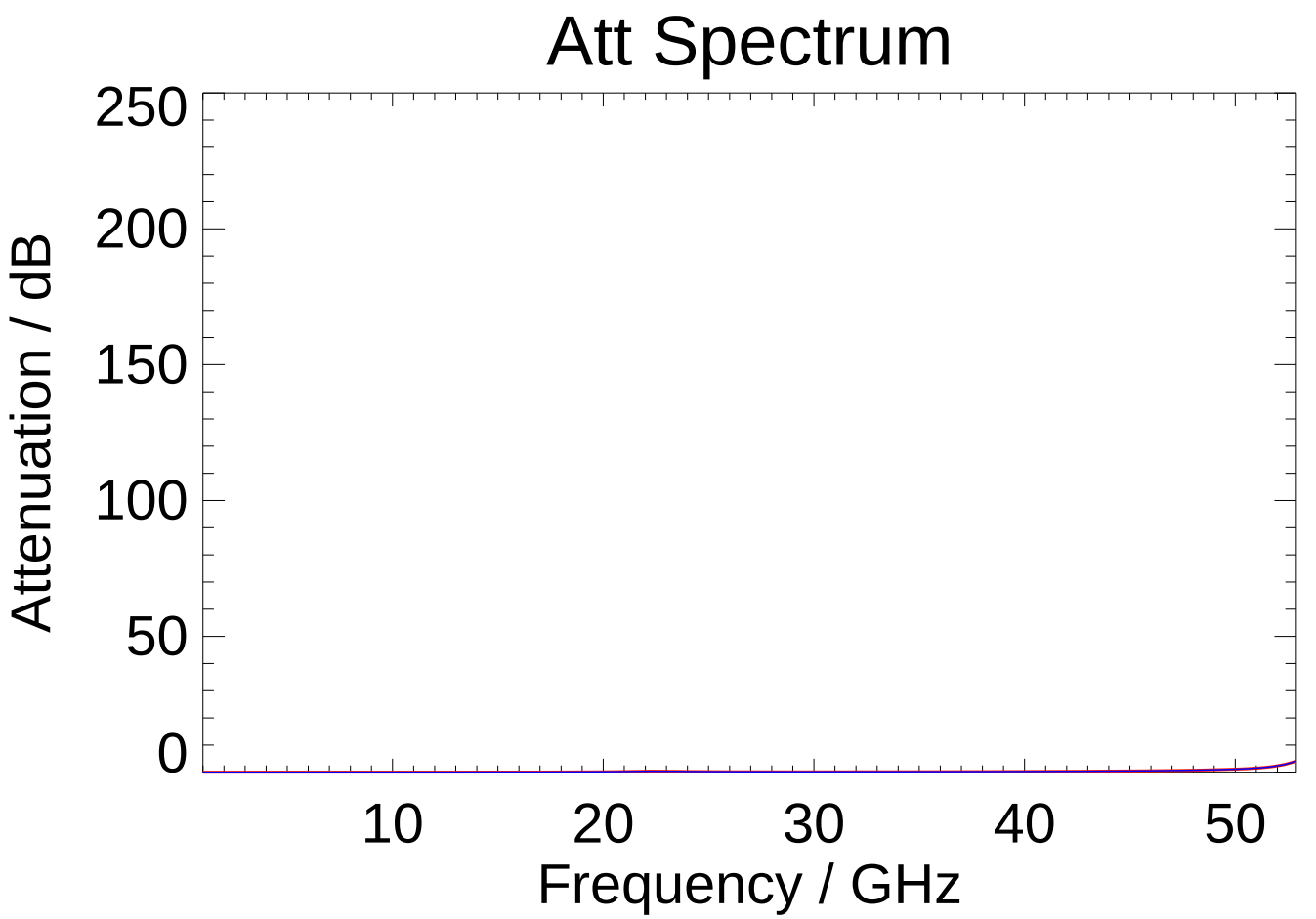
Frequency / GHz


Att Spectrum
Attenuation / dB
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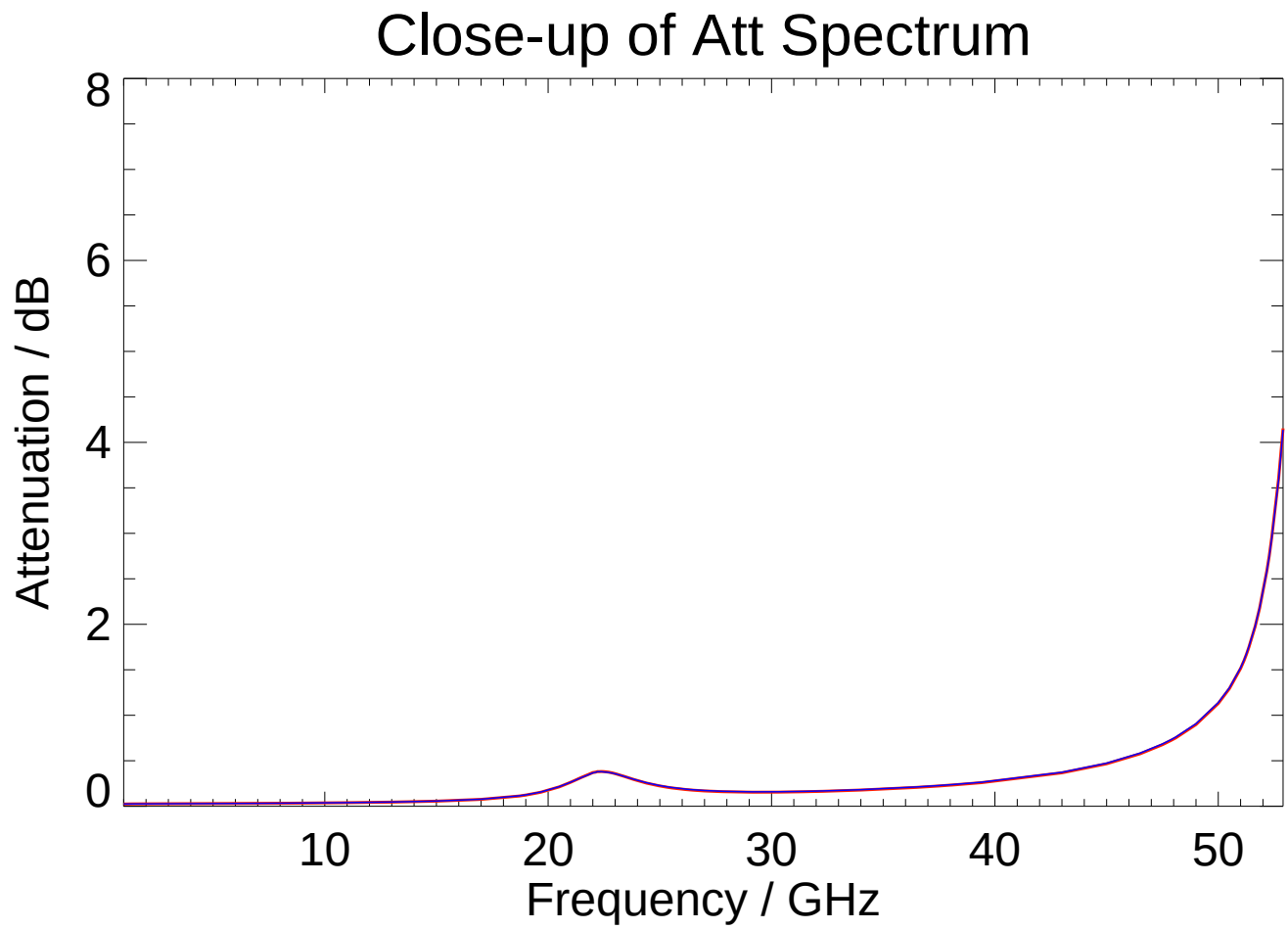
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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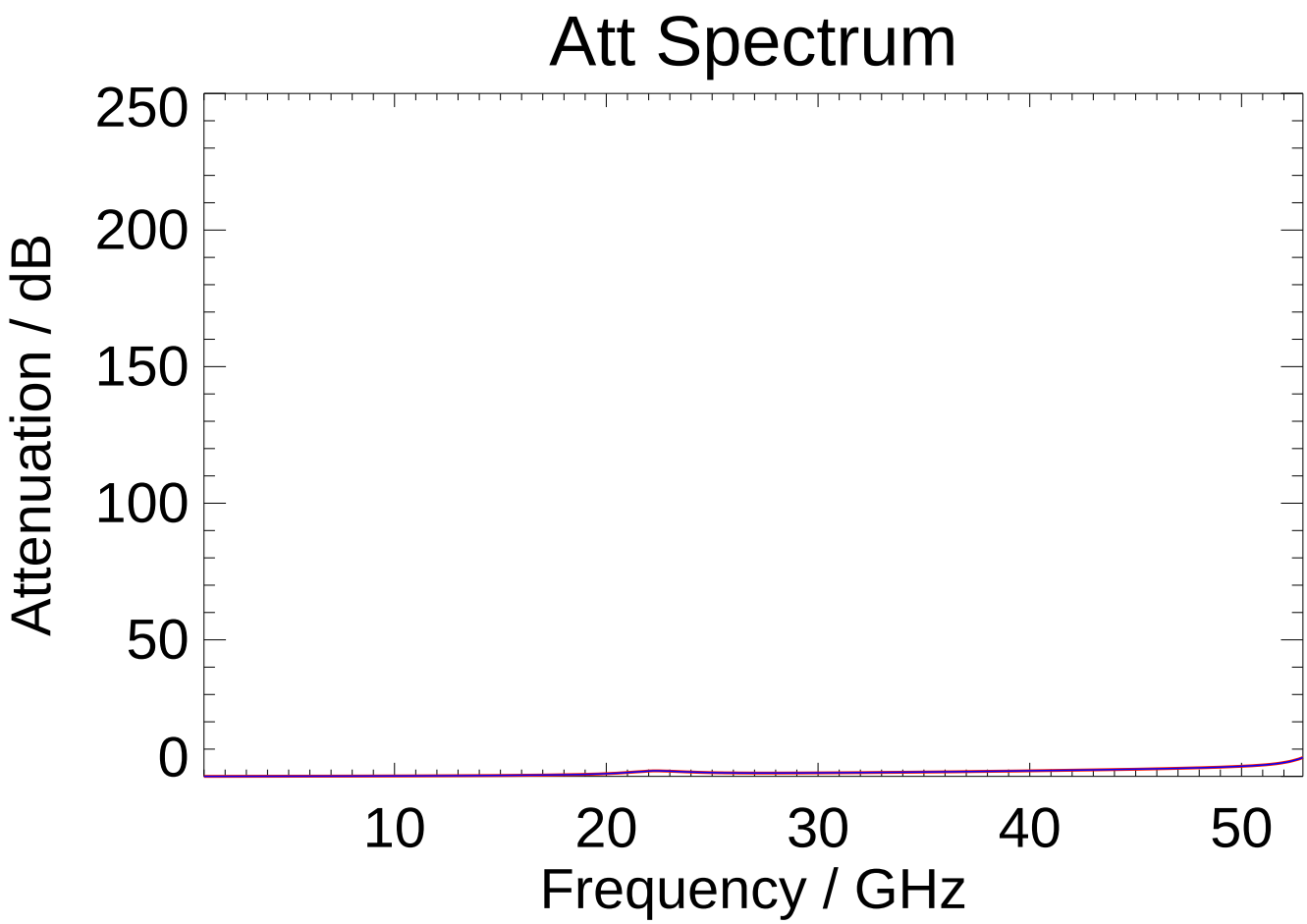
Frequency / GHz


Att Spectrum
Attenuation / dB
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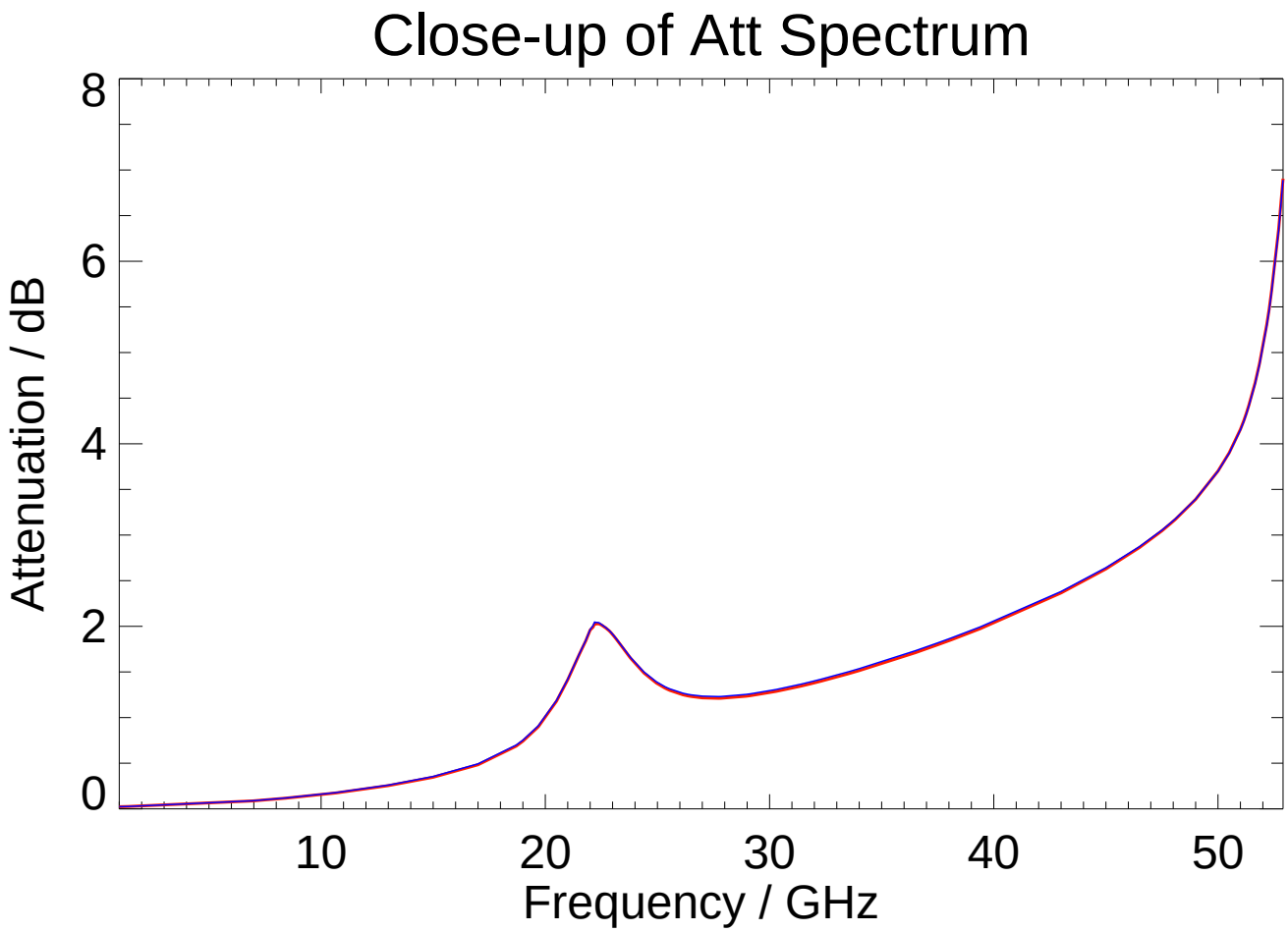
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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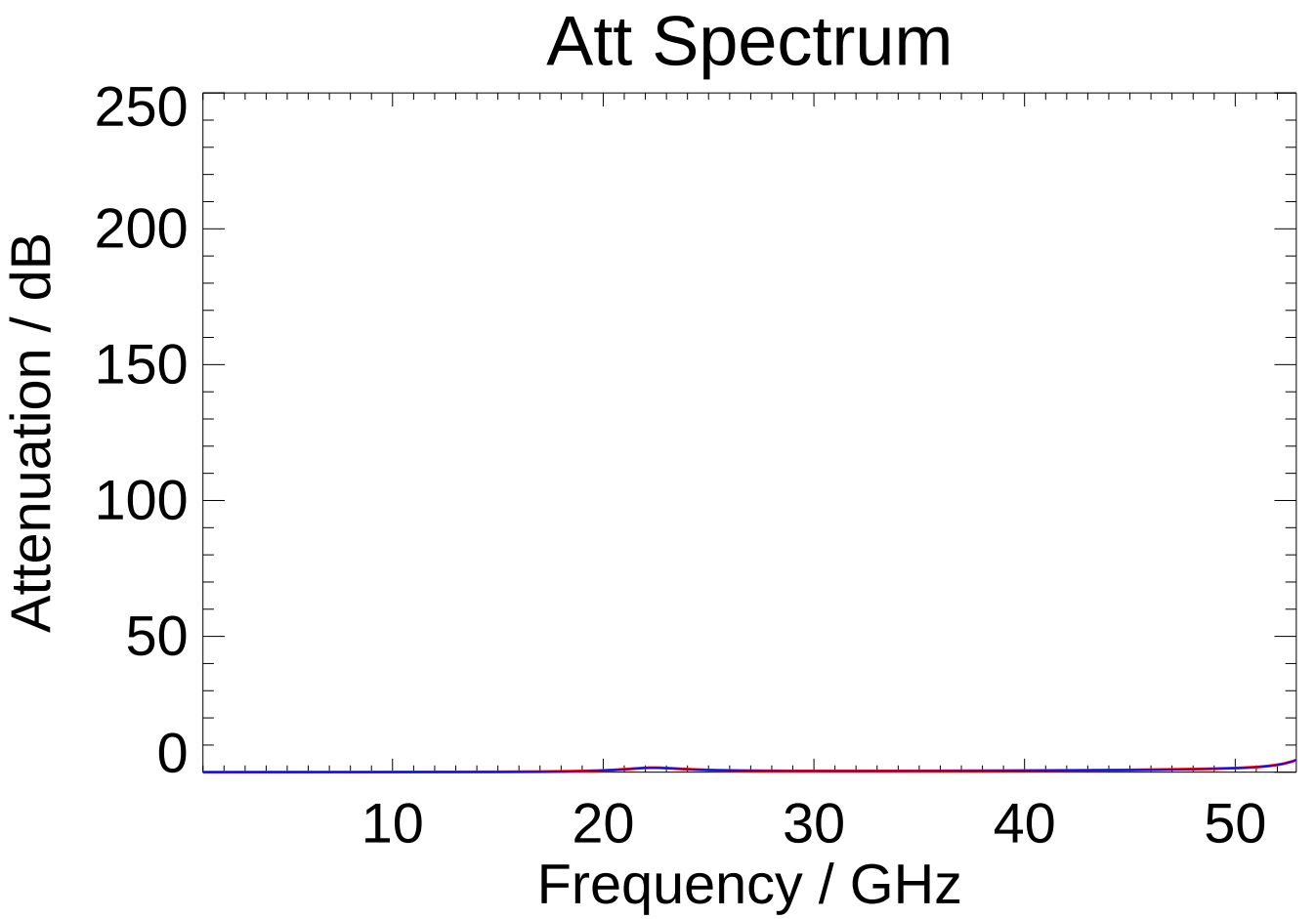
Frequency / GHz


Att Spectrum
Attenuation / dB
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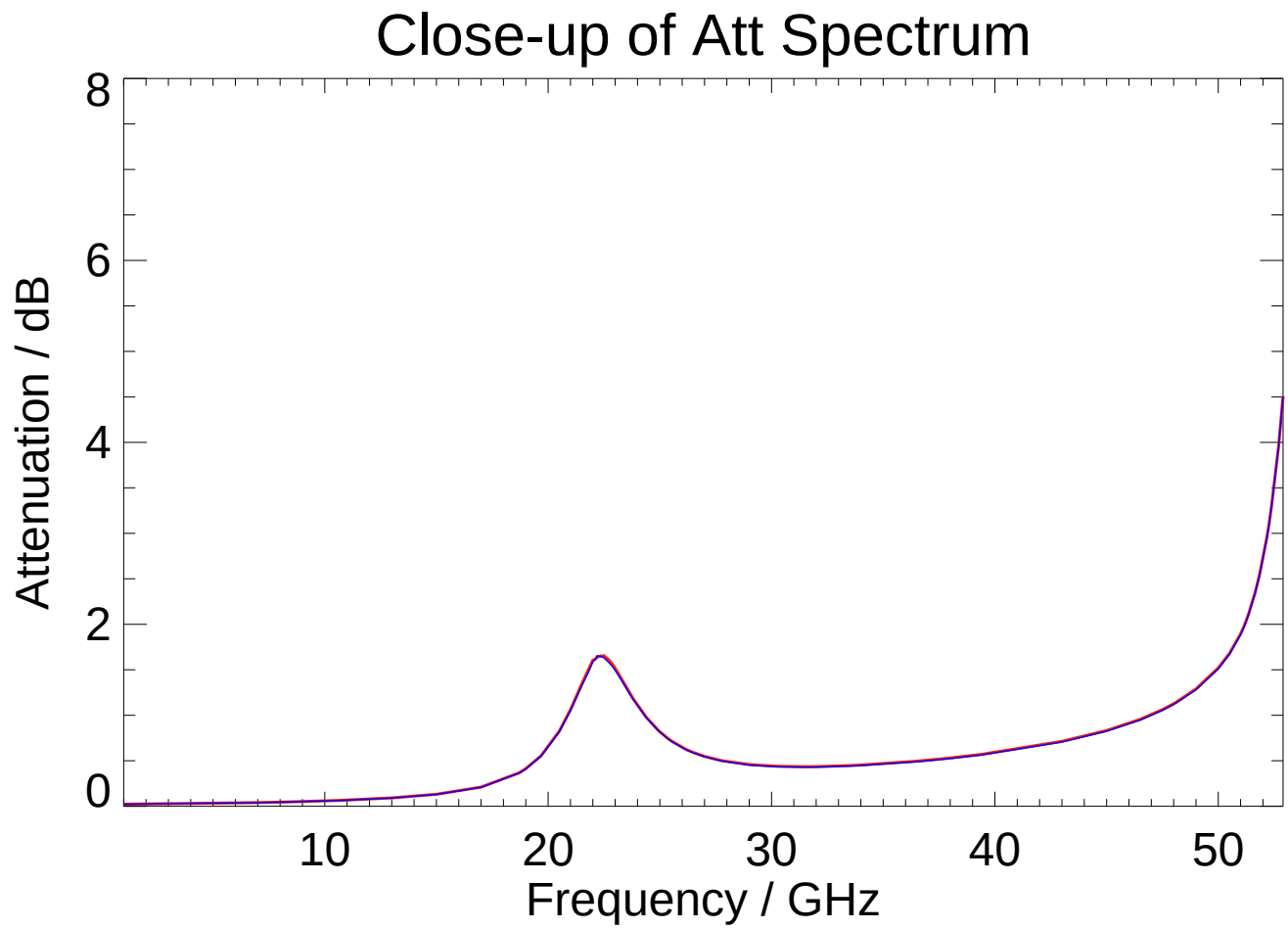
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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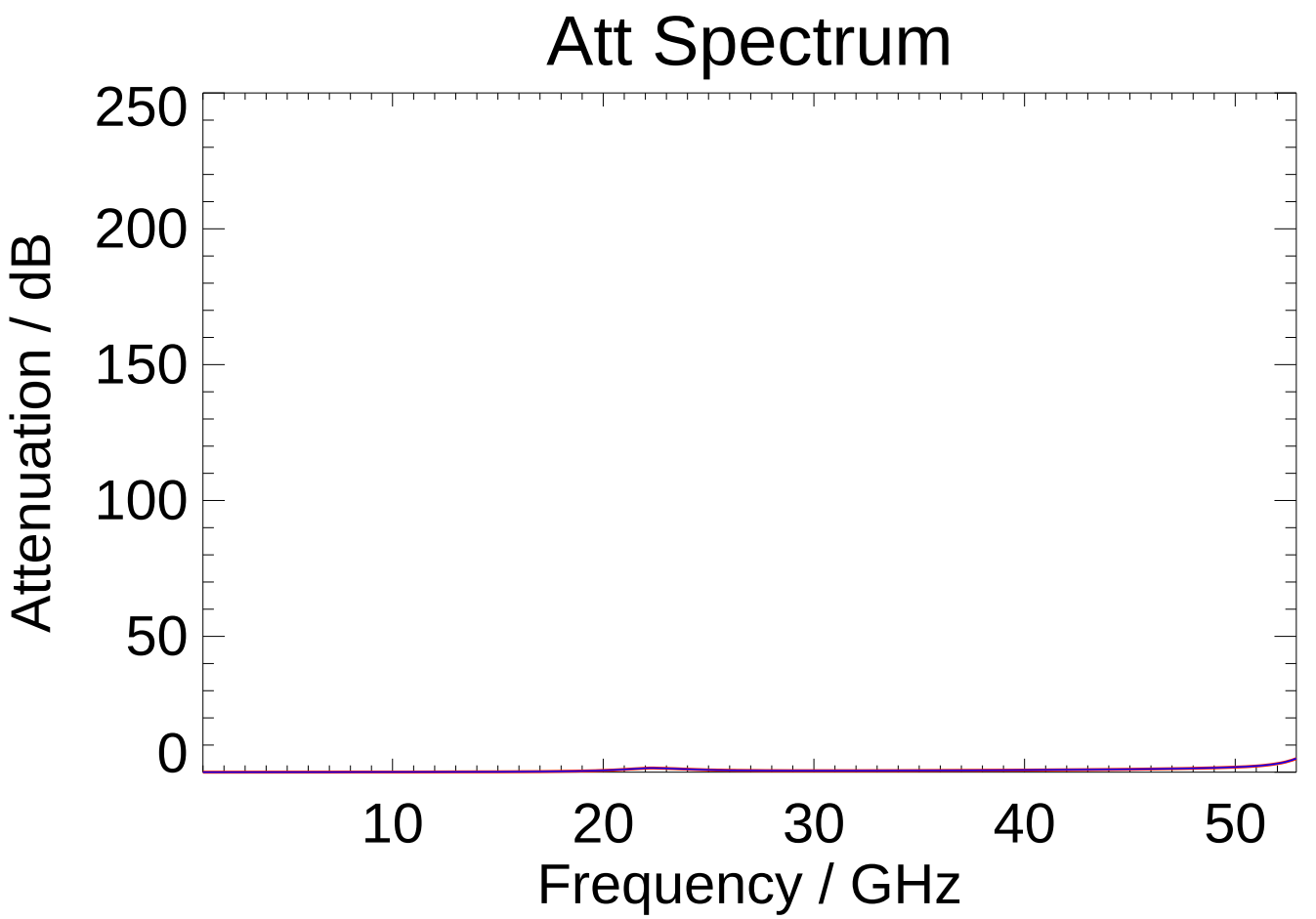
Frequency / GHz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Attenuation / dB
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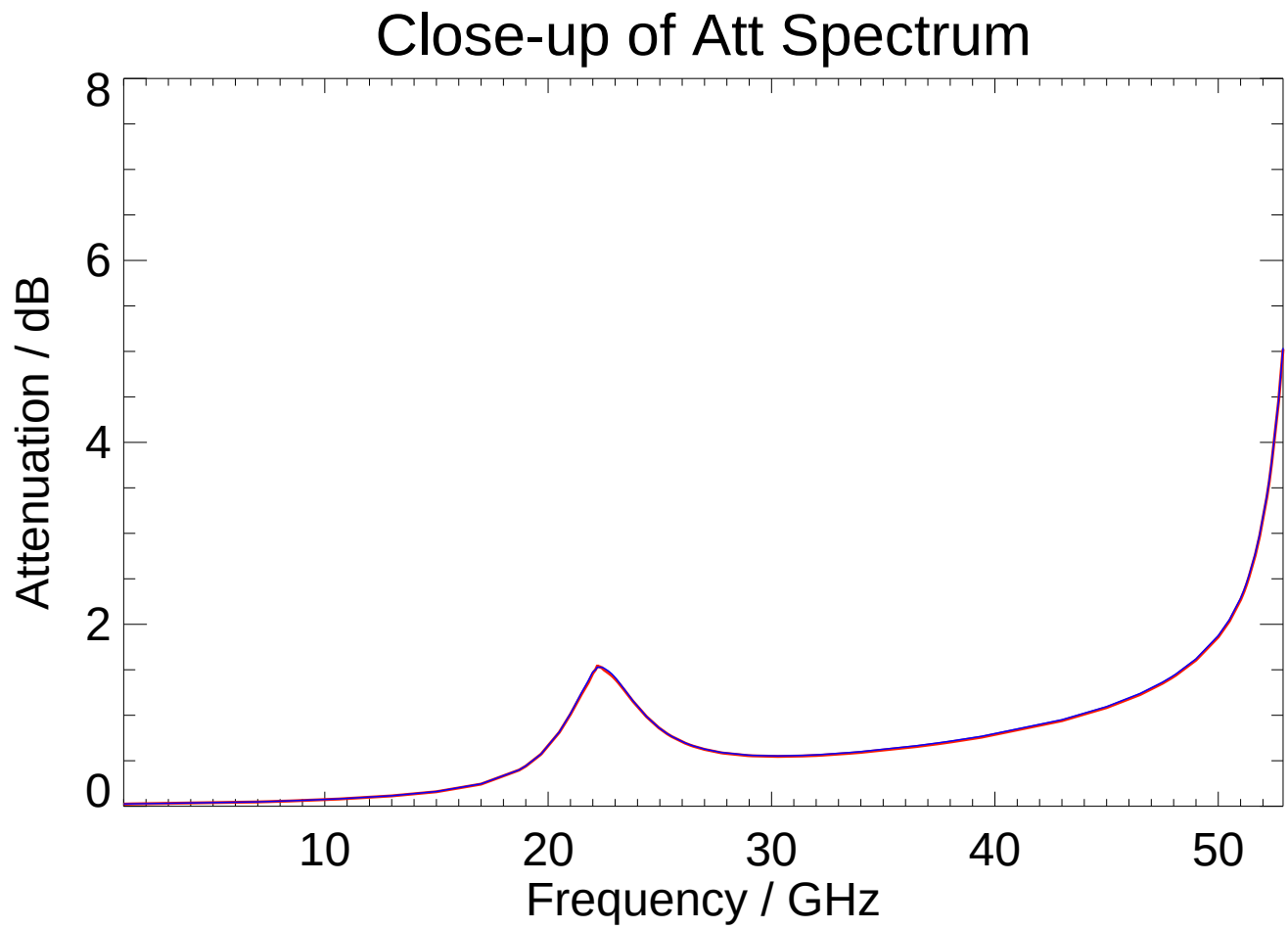
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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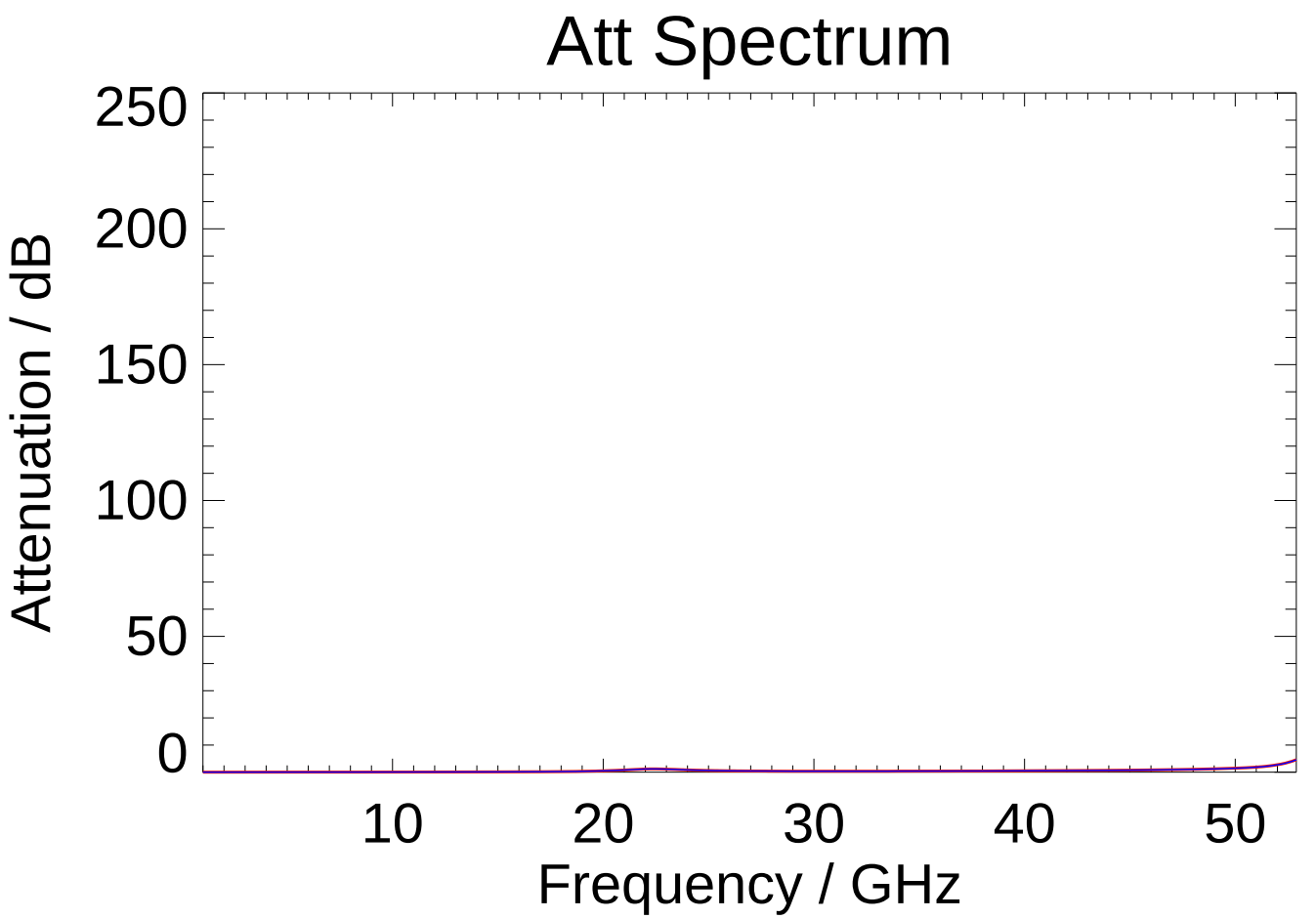
Frequency / GHz


Att Spectrum
Attenuation / dB
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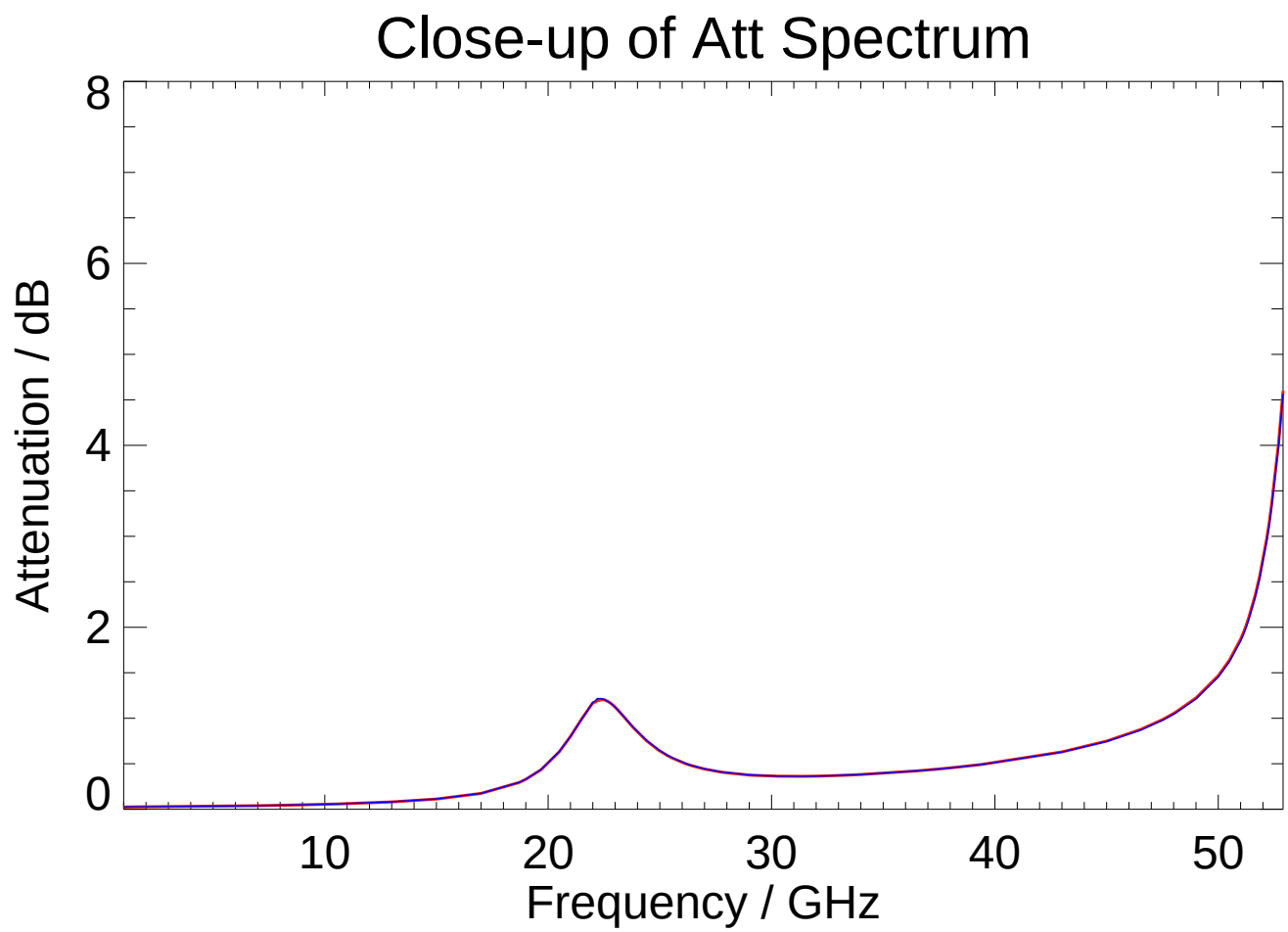
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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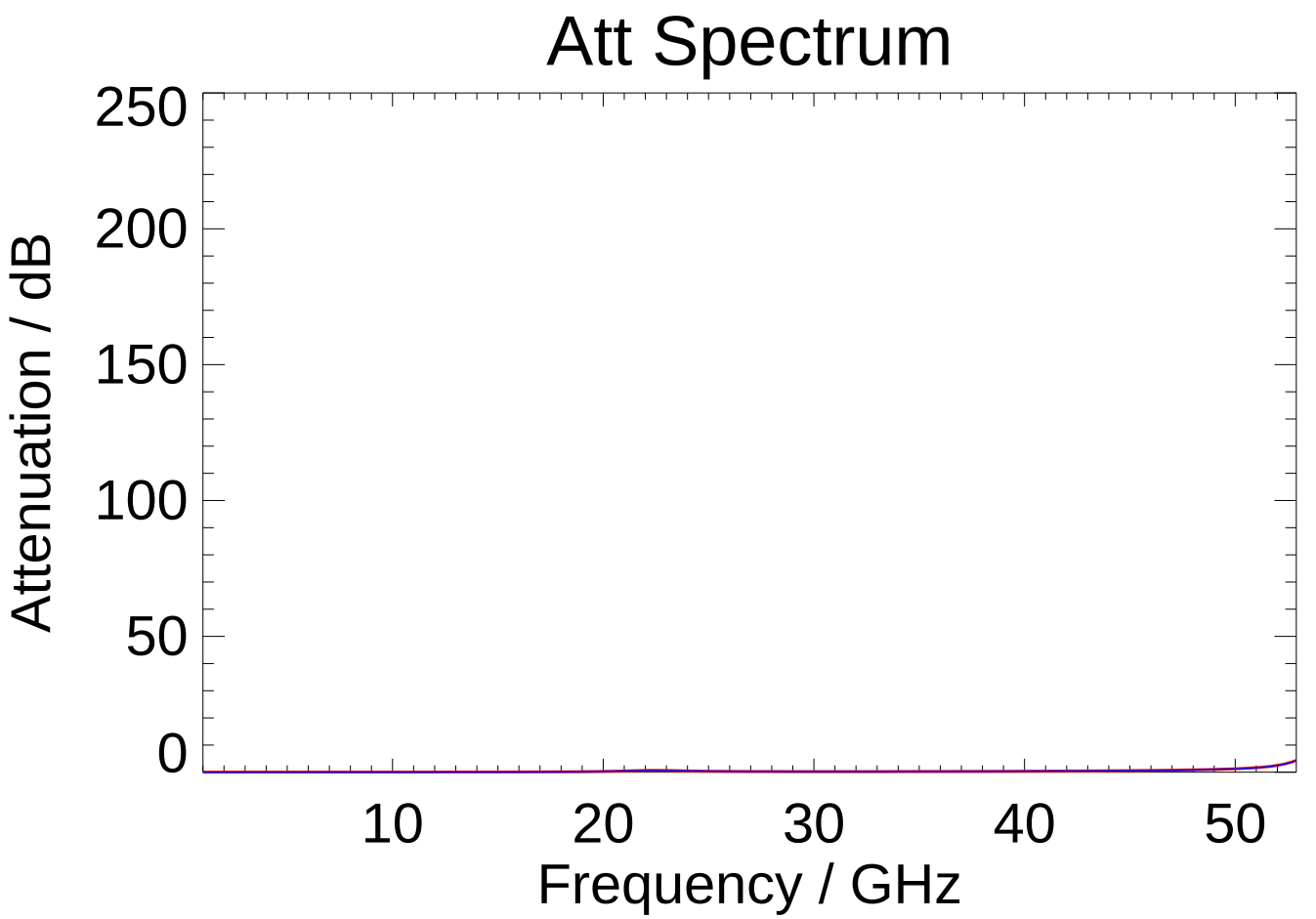
Frequency / GHz


Att Spectrum
Attenuation / dB
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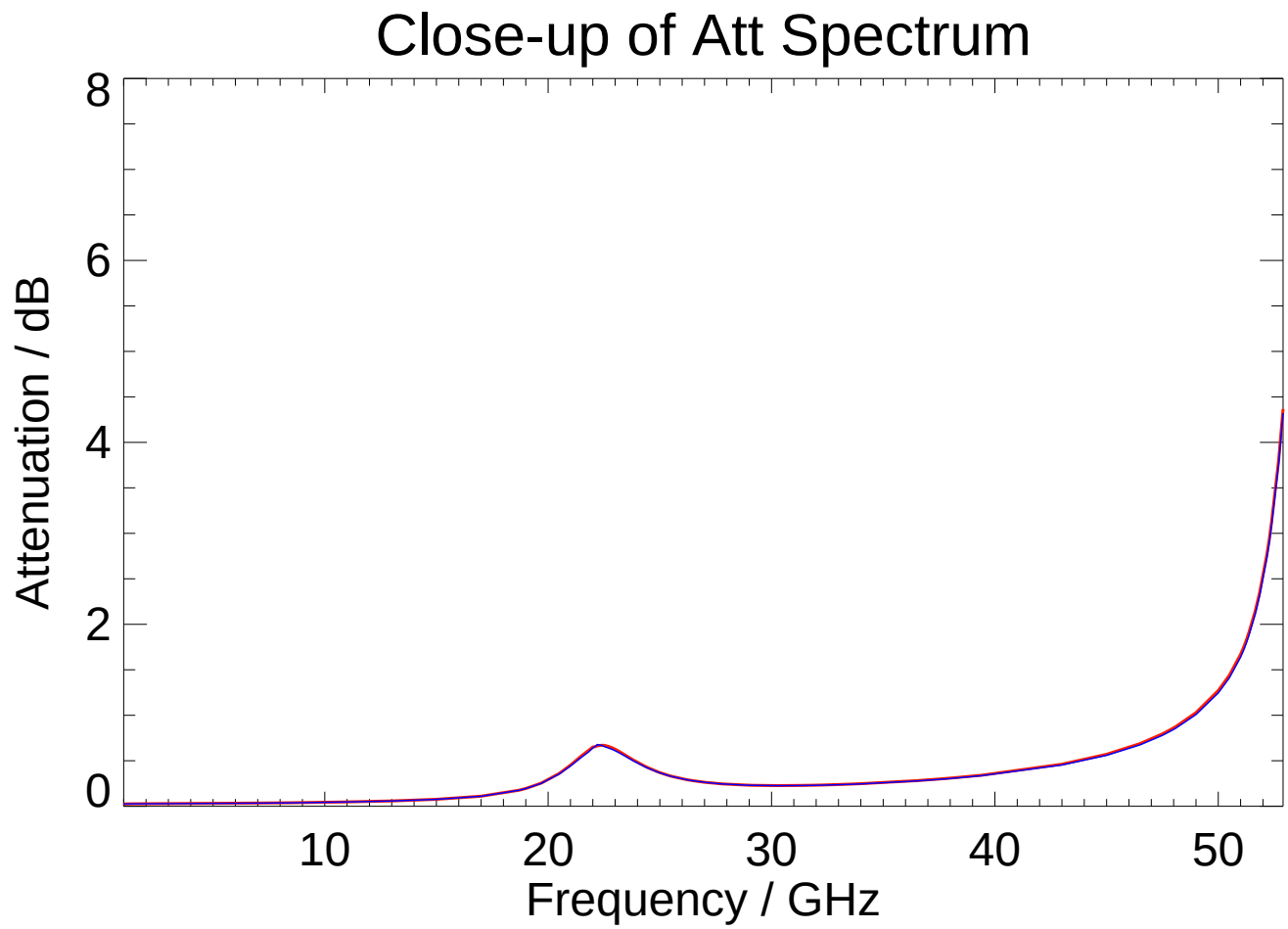
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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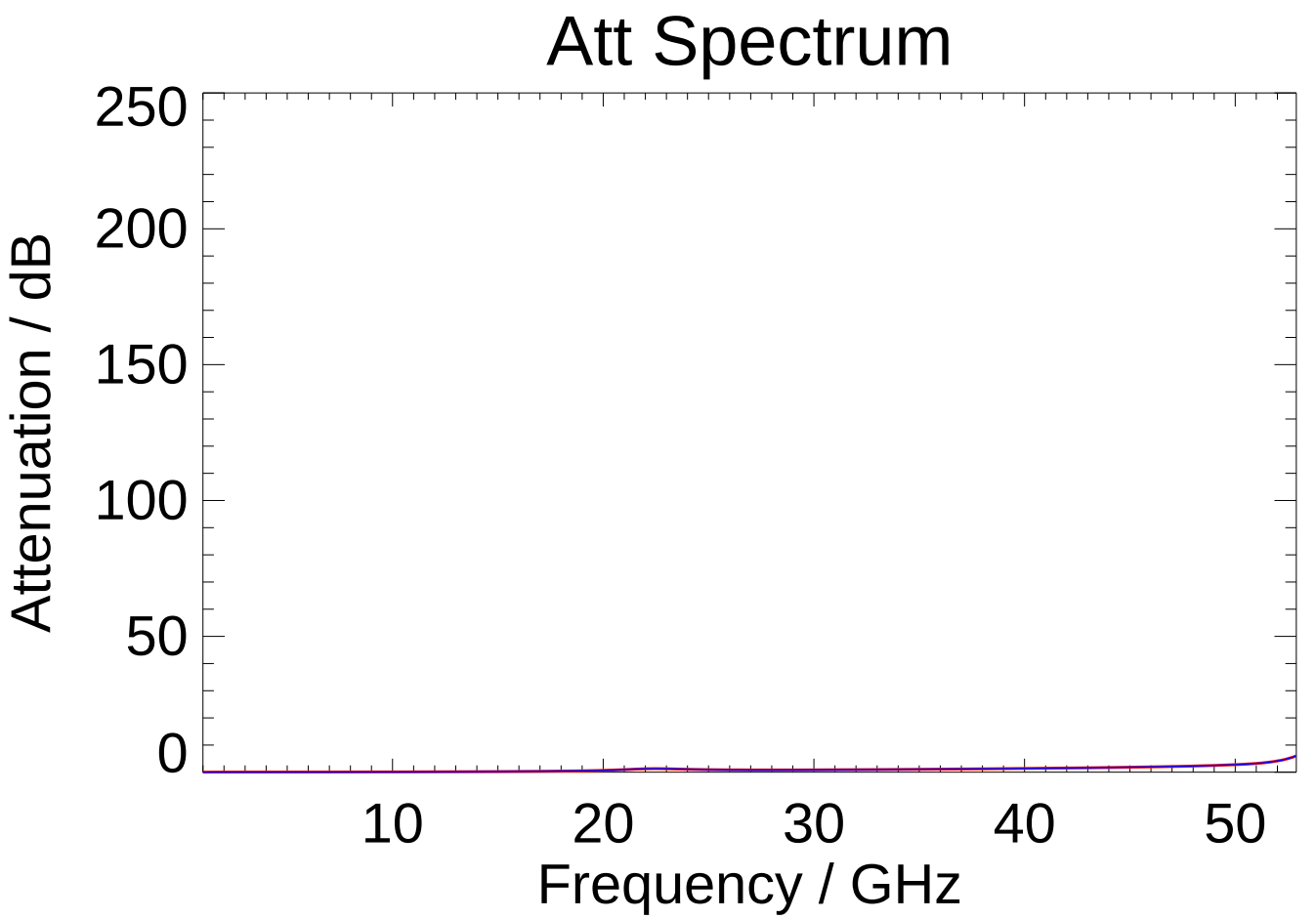
Frequency / GHz


Att Spectrum
Attenuation / dB
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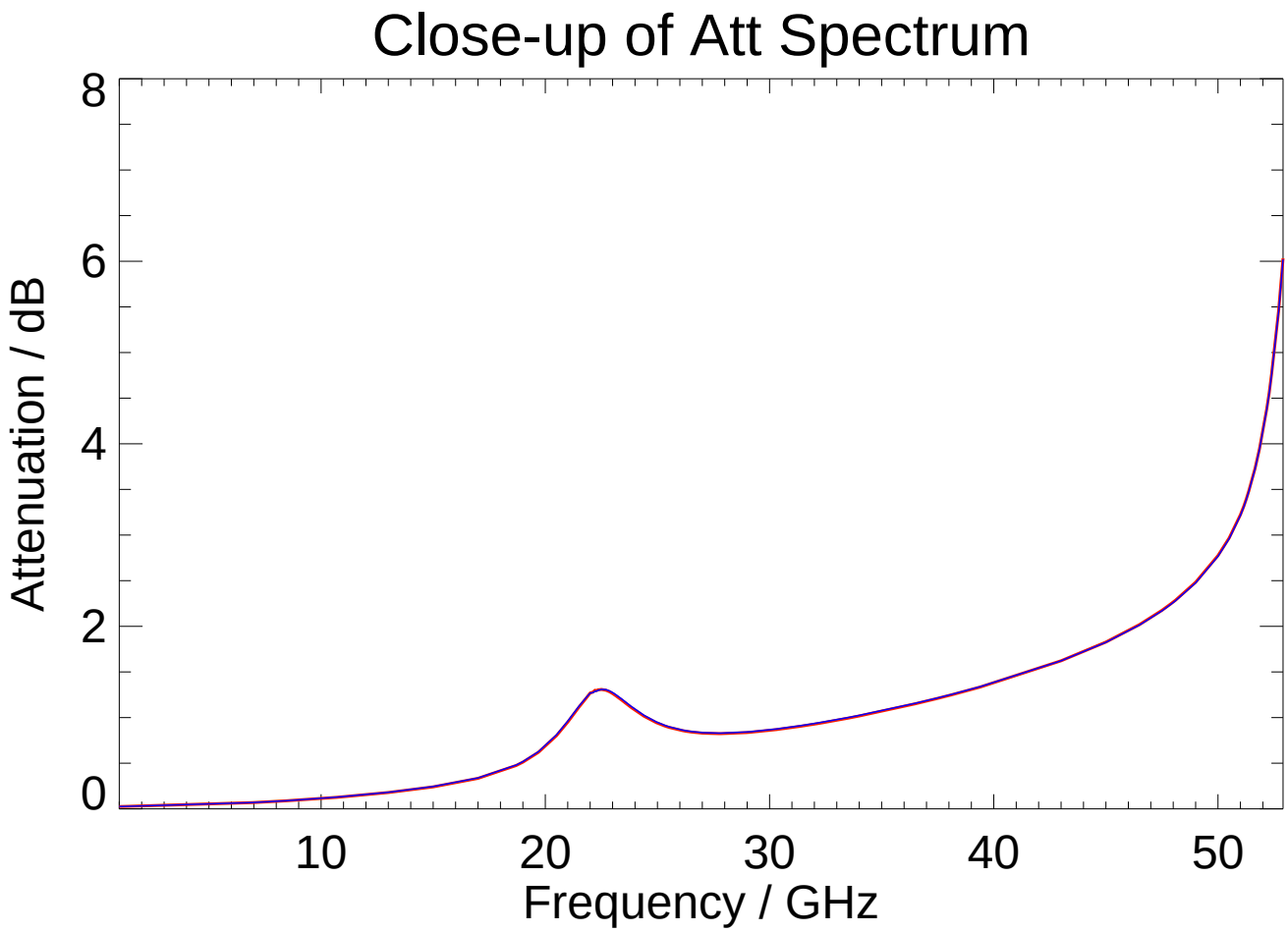
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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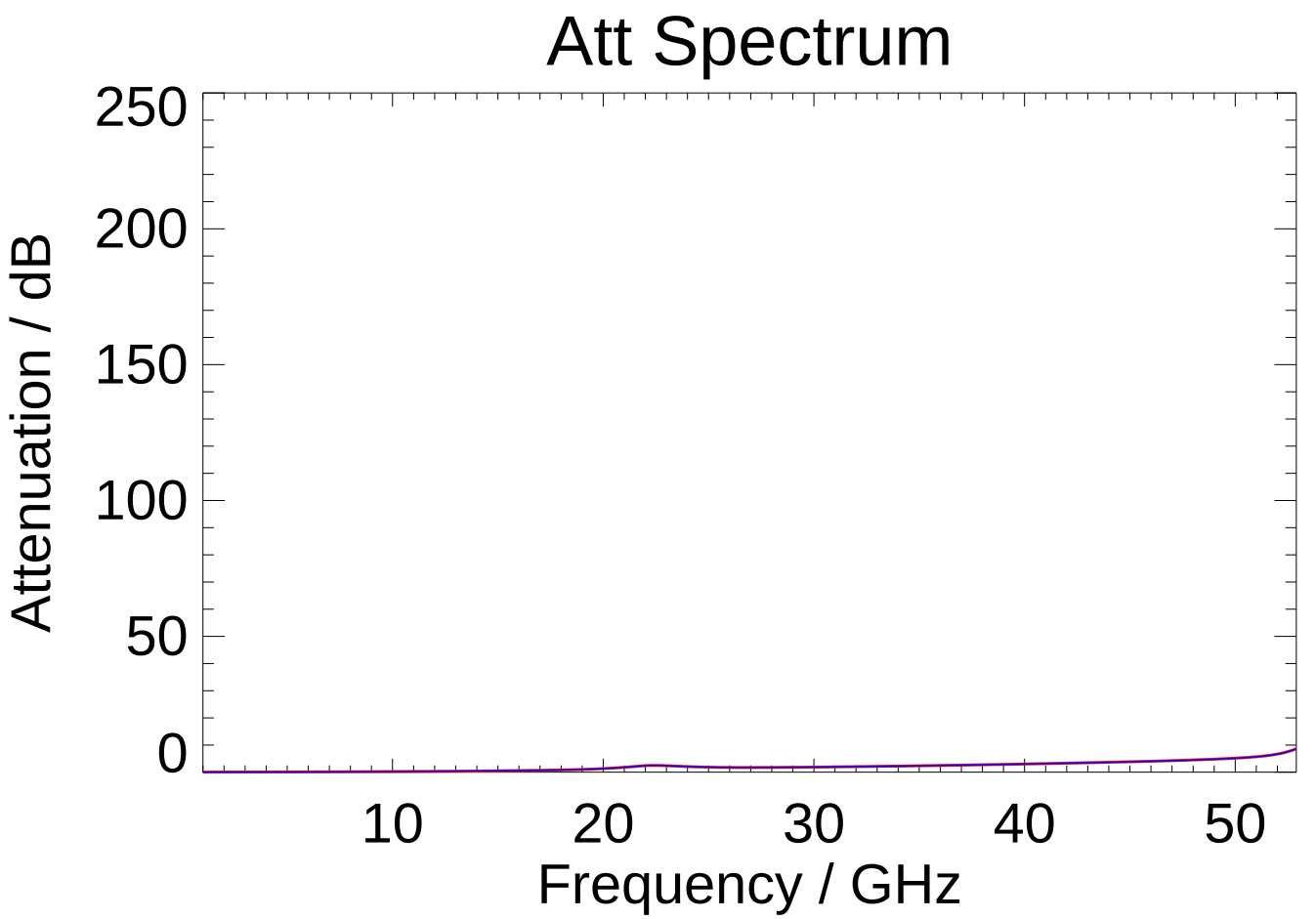
Frequency / GHz


Att Spectrum
Attenuation / dB
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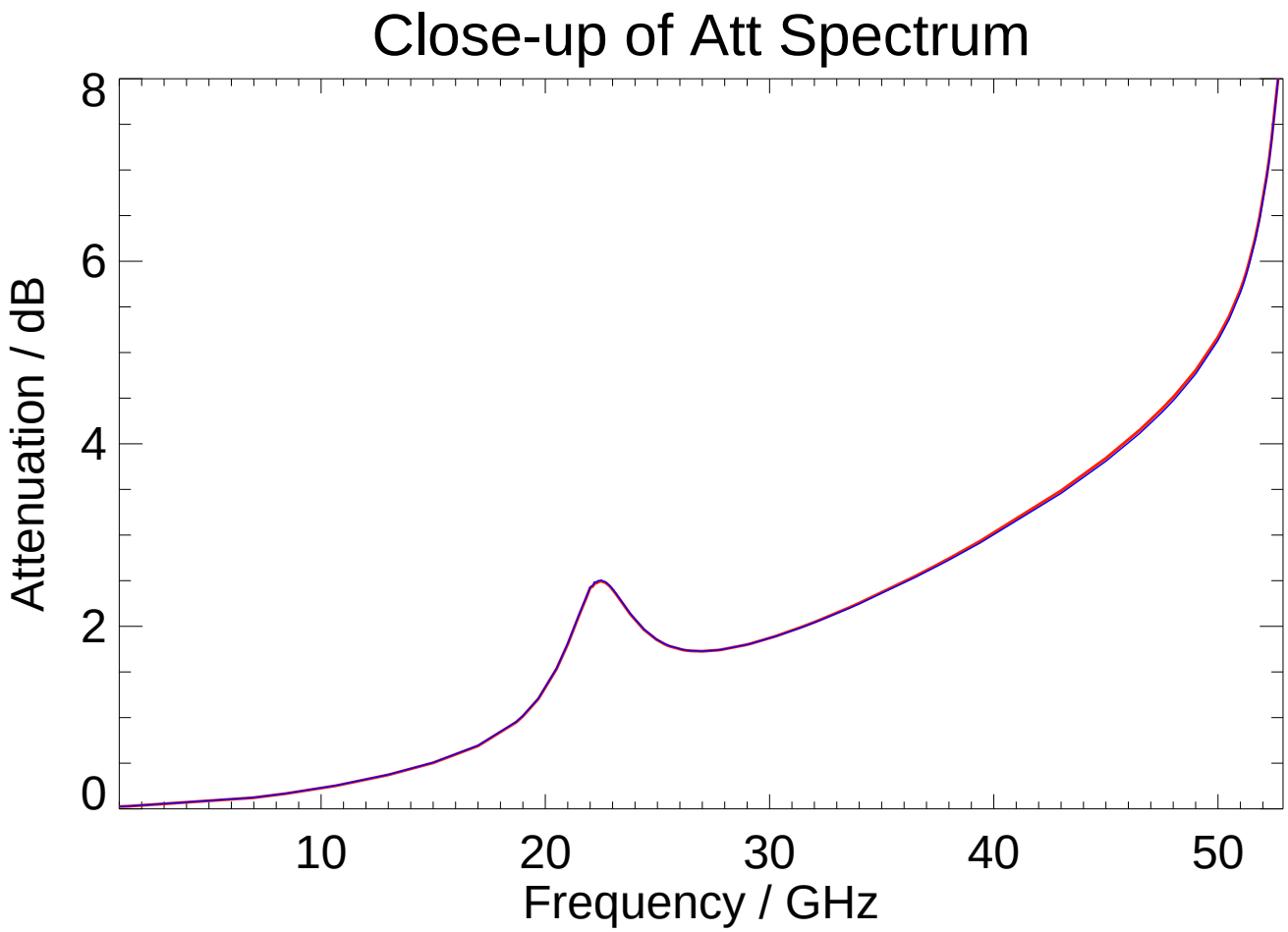
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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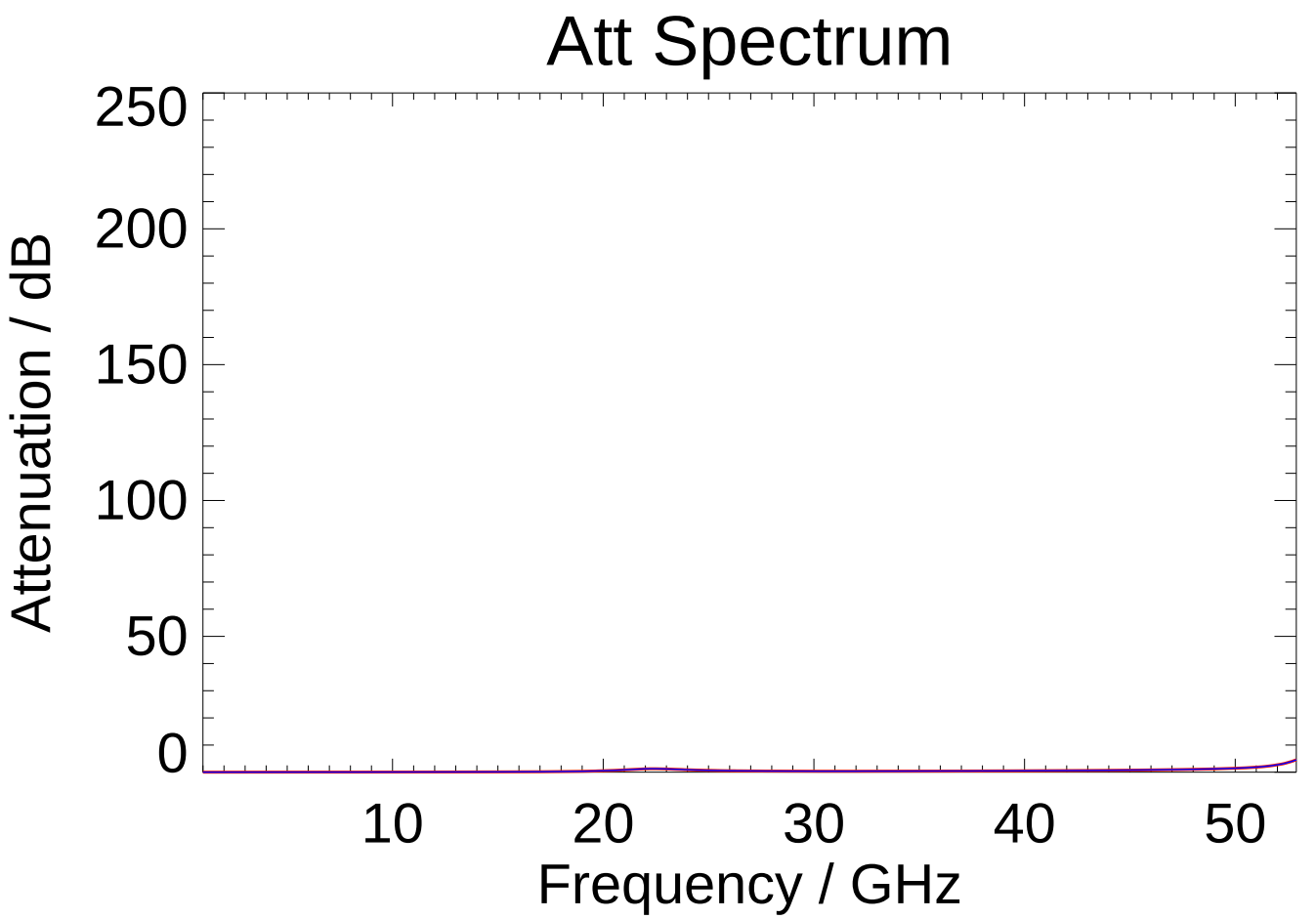
Frequency / GHz


Att Spectrum
Attenuation / dB
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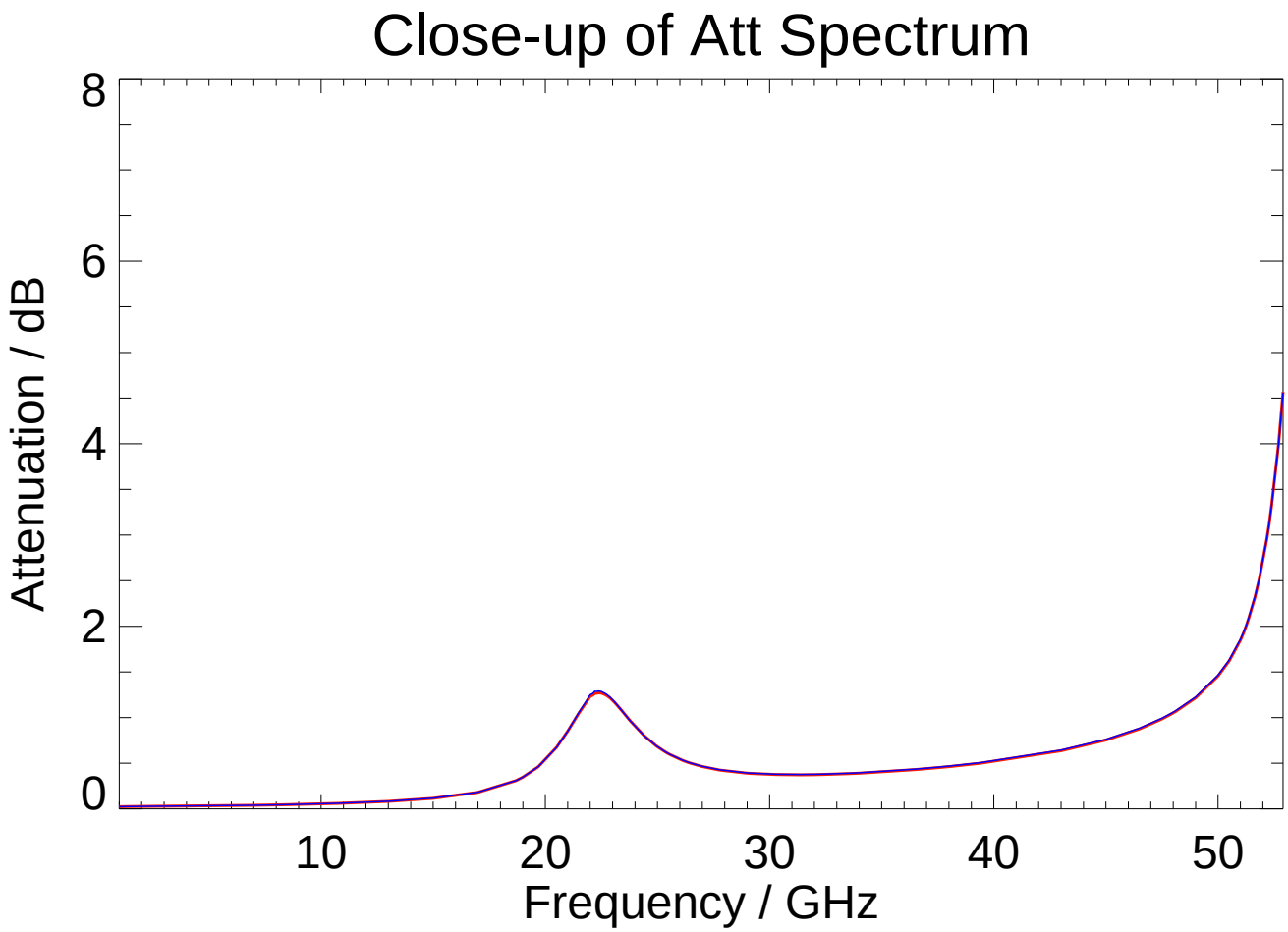
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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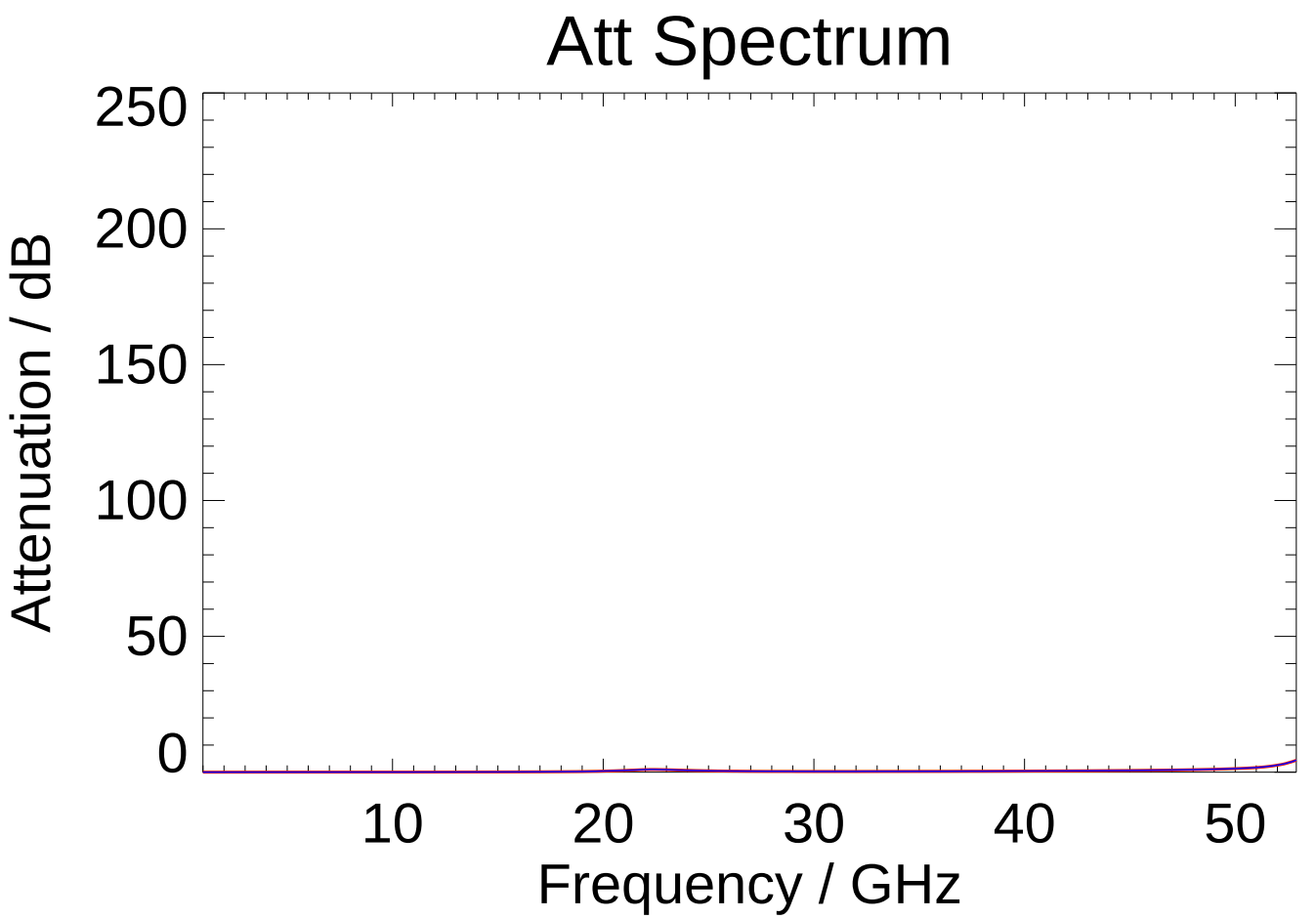
Frequency / GHz


Att Spectrum
Attenuation / dB
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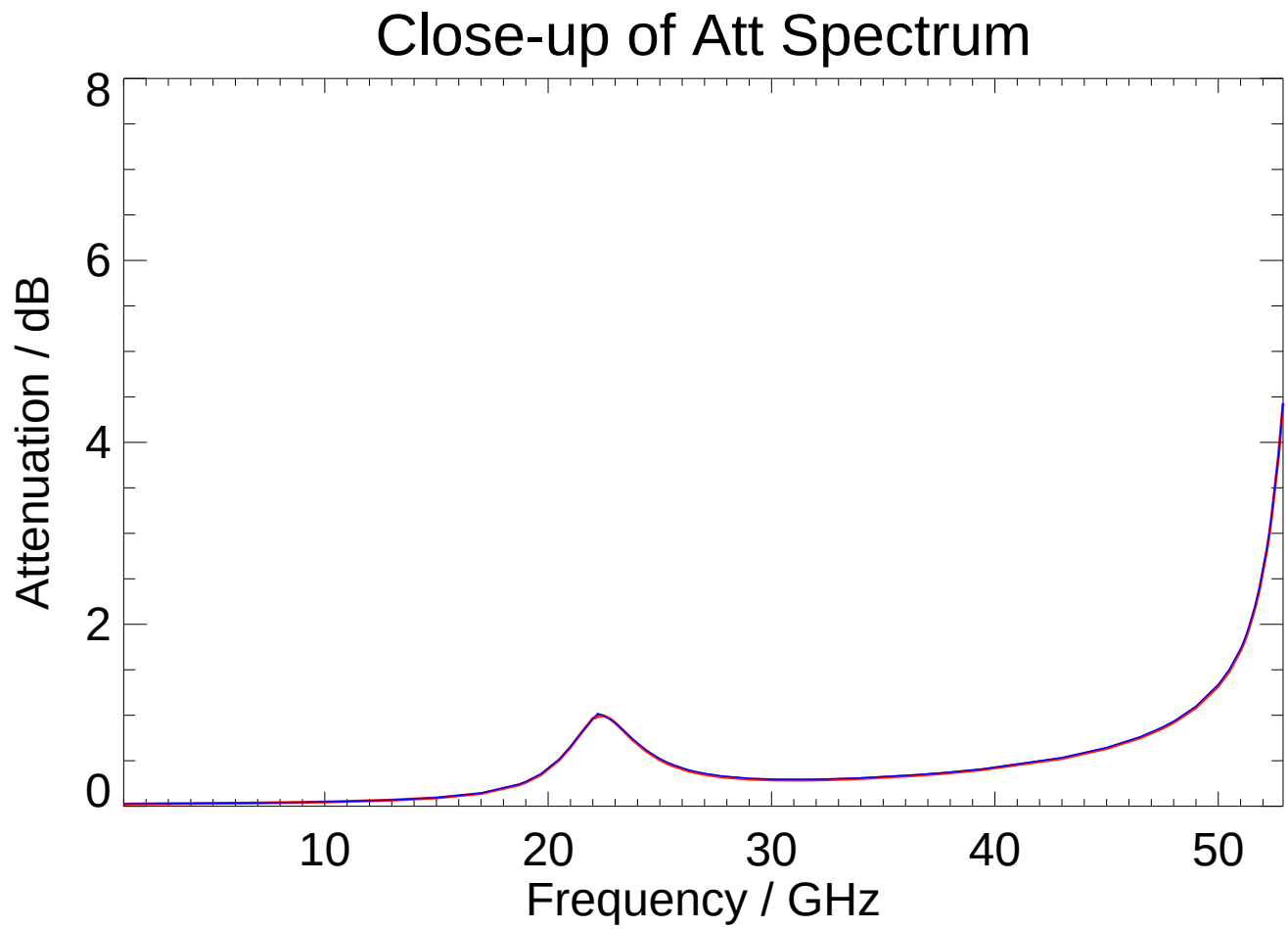
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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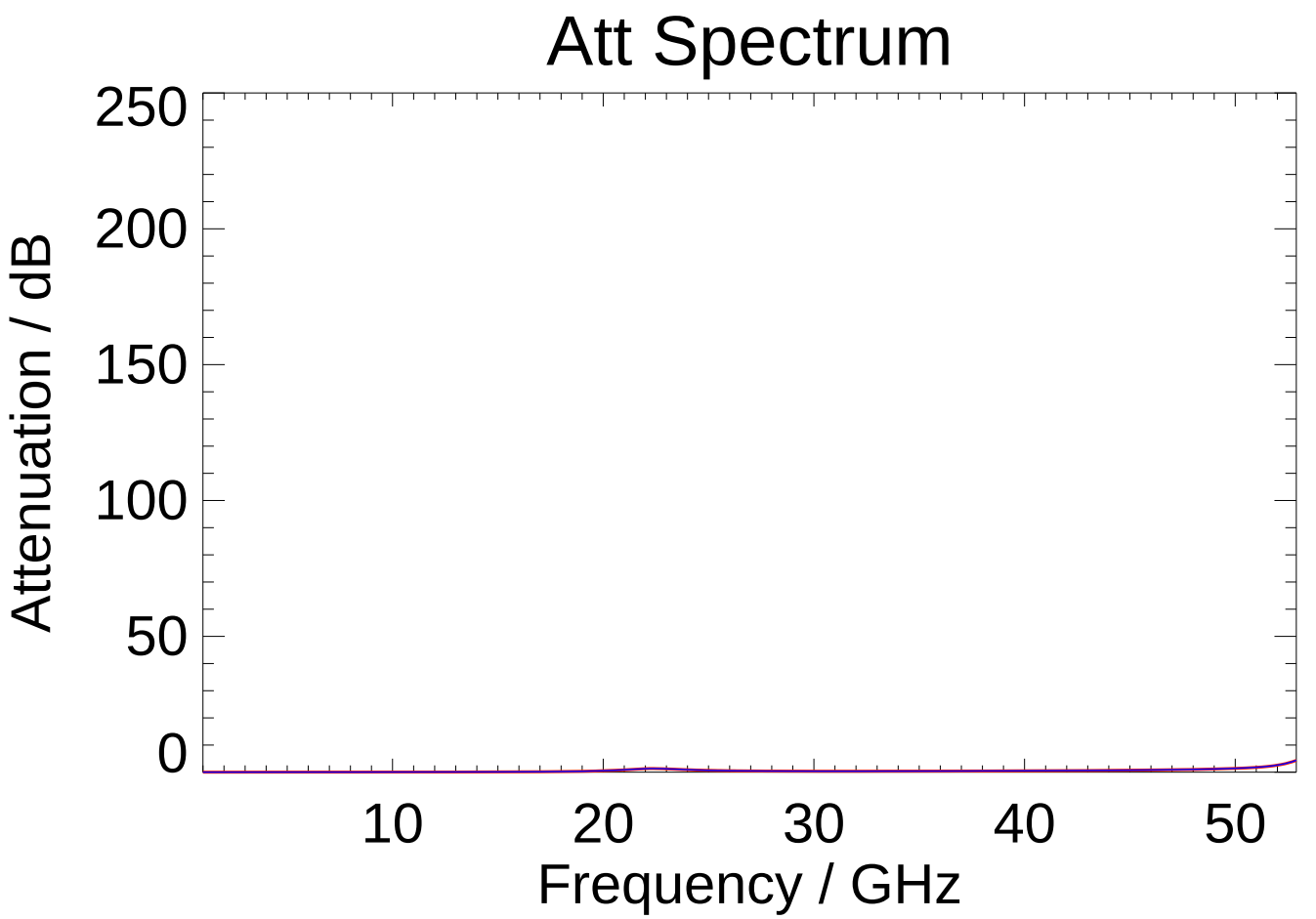
Frequency / GHz


Att Spectrum
Attenuation / dB
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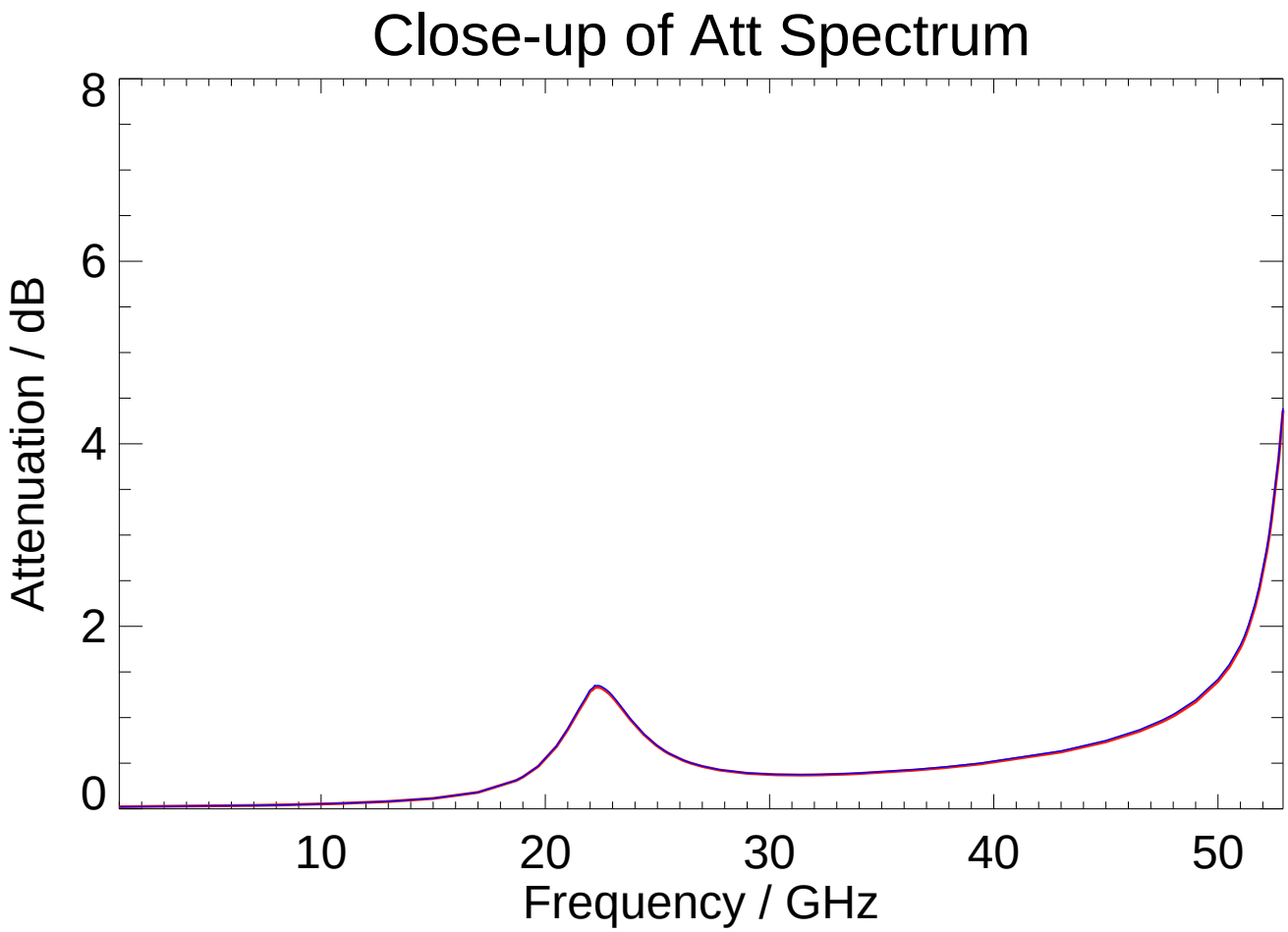
Frequency / GHz


Close-up of Att Spectrum
Attenuation / dB
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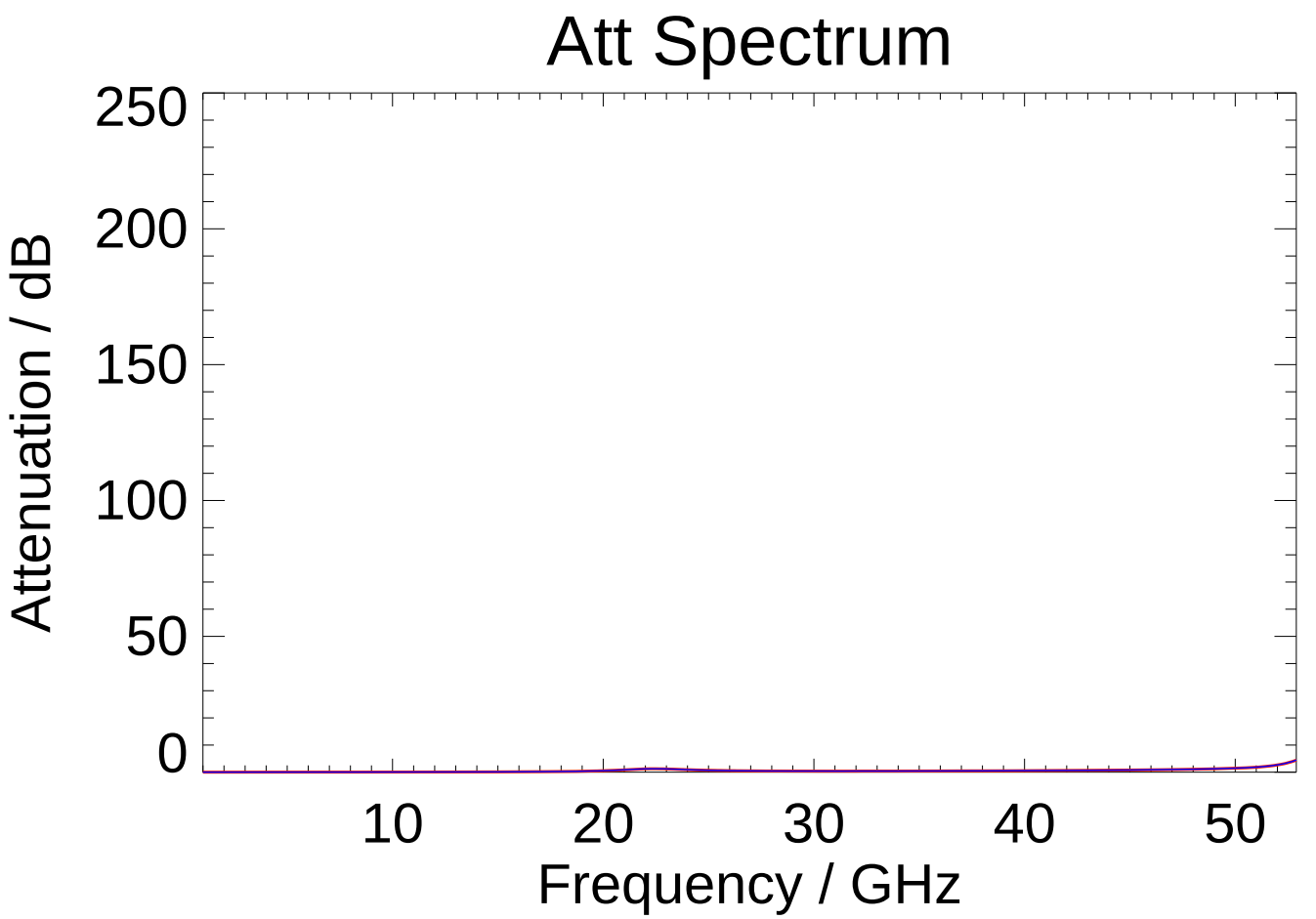
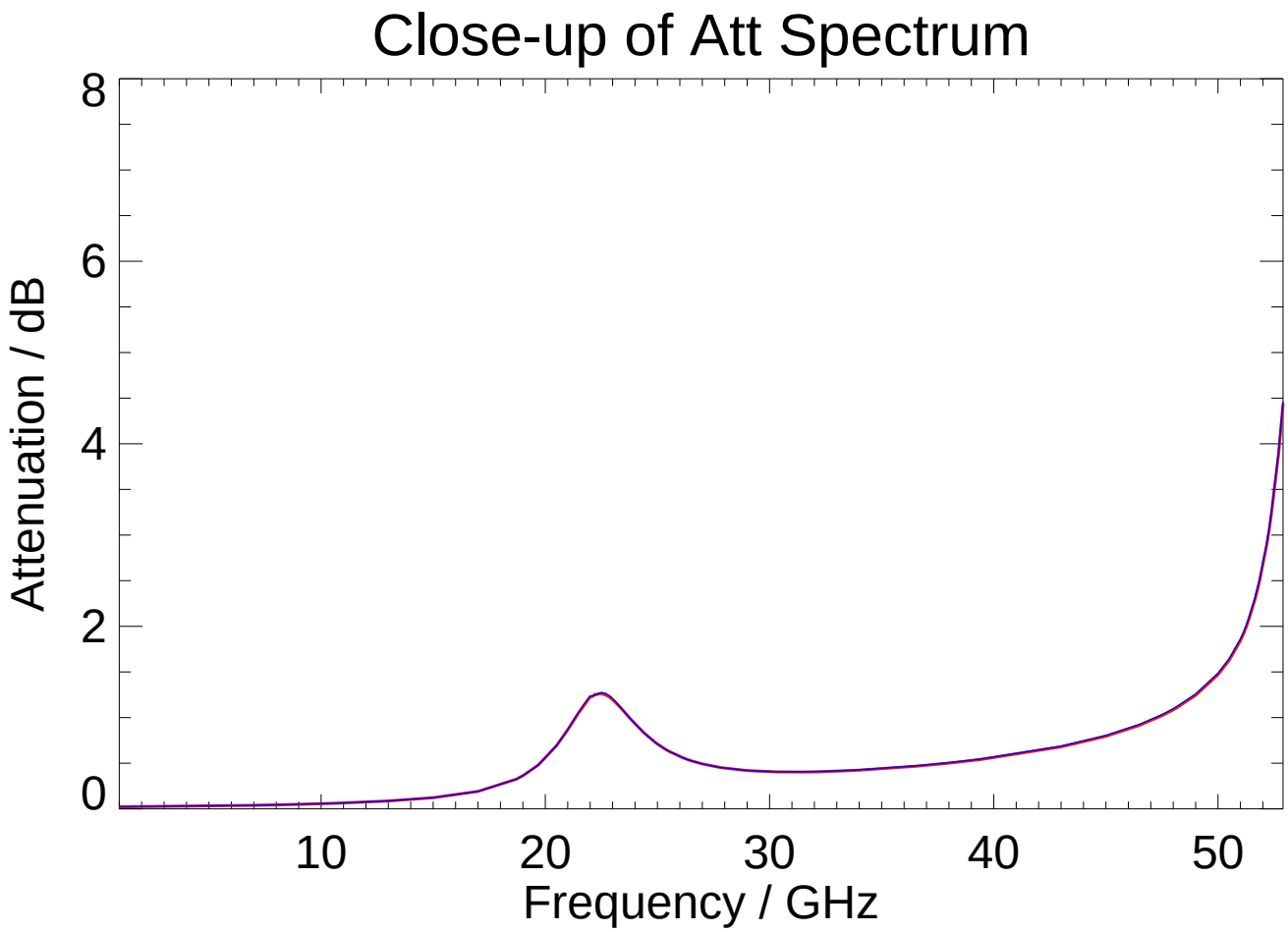
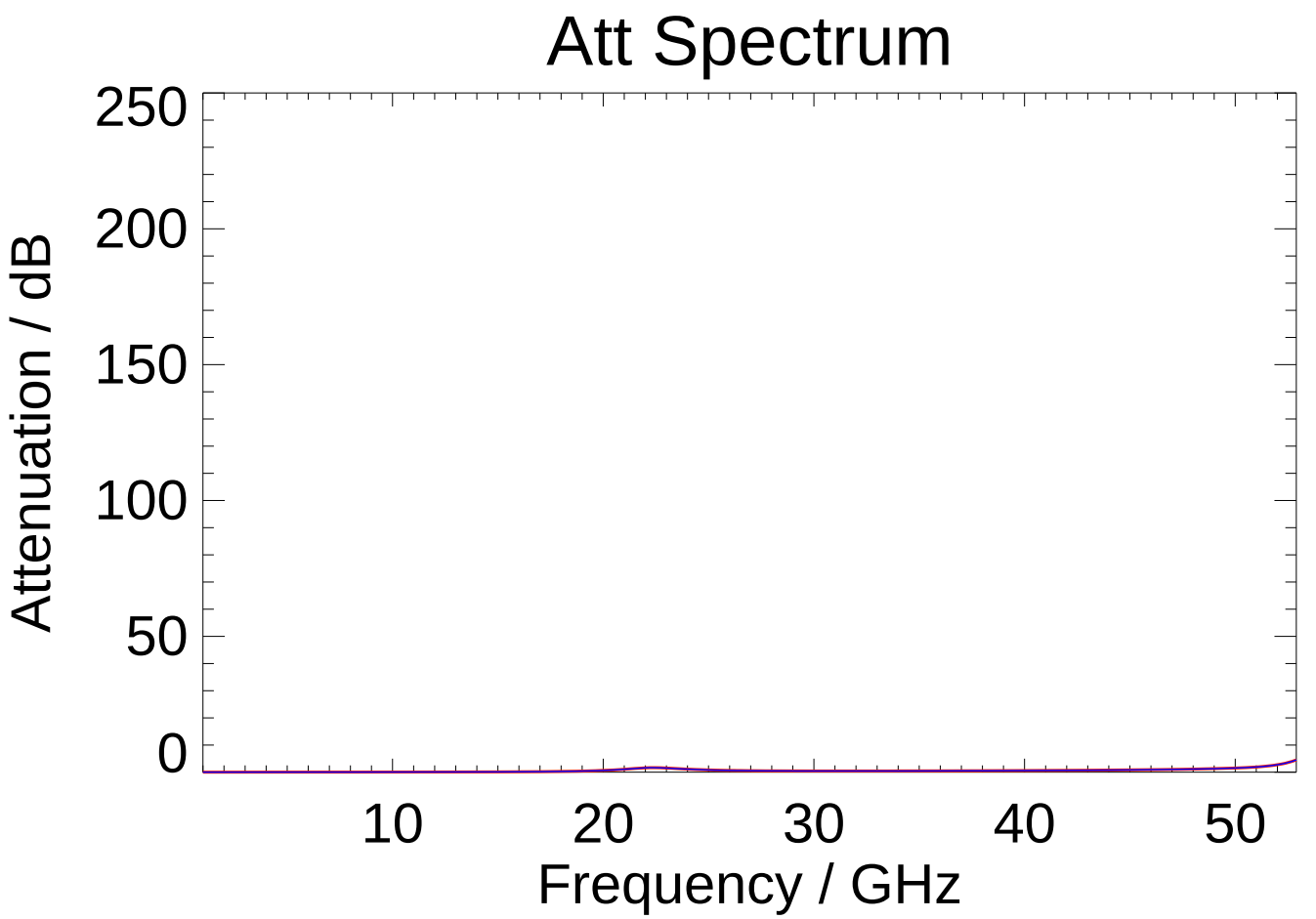
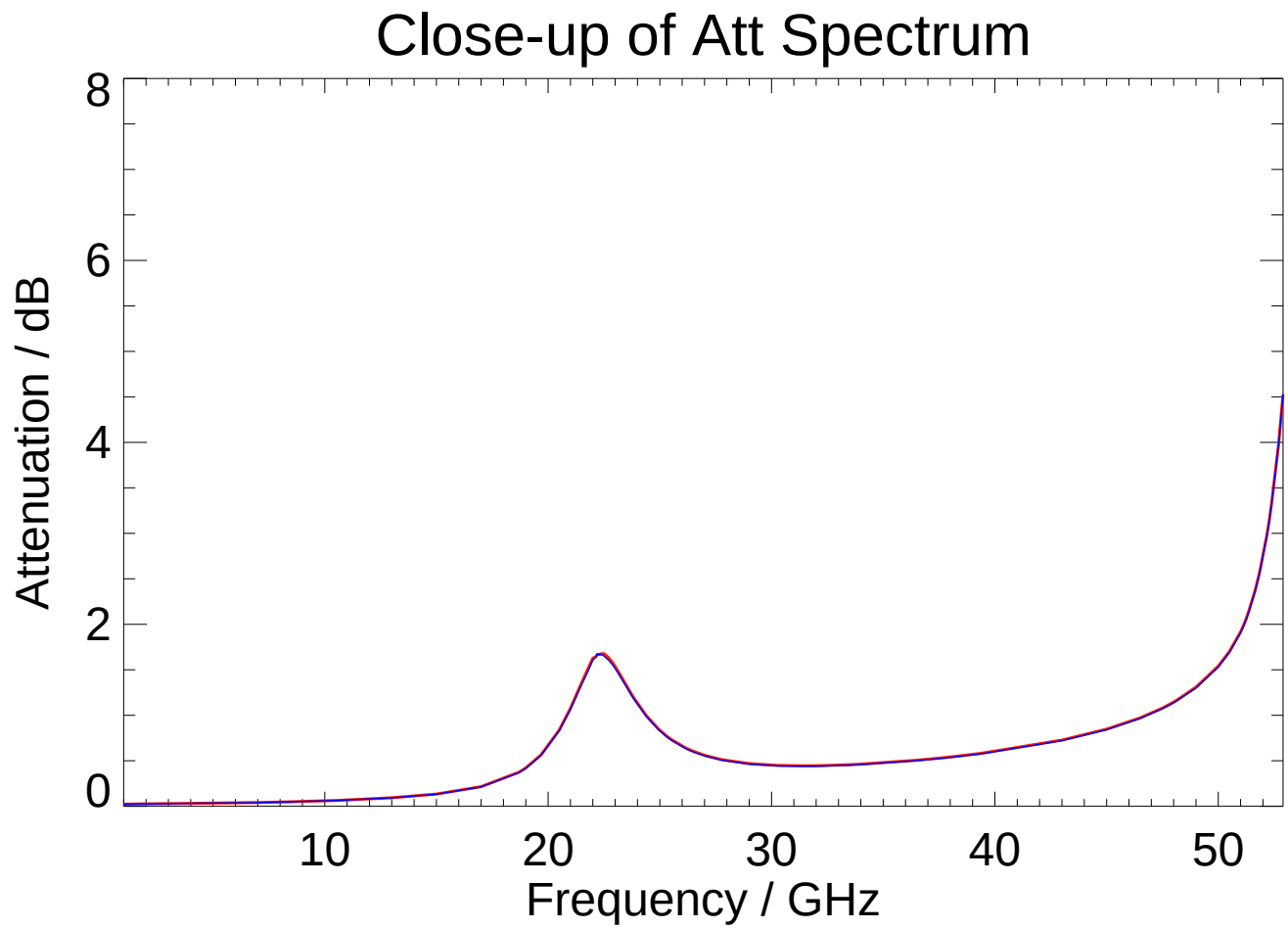
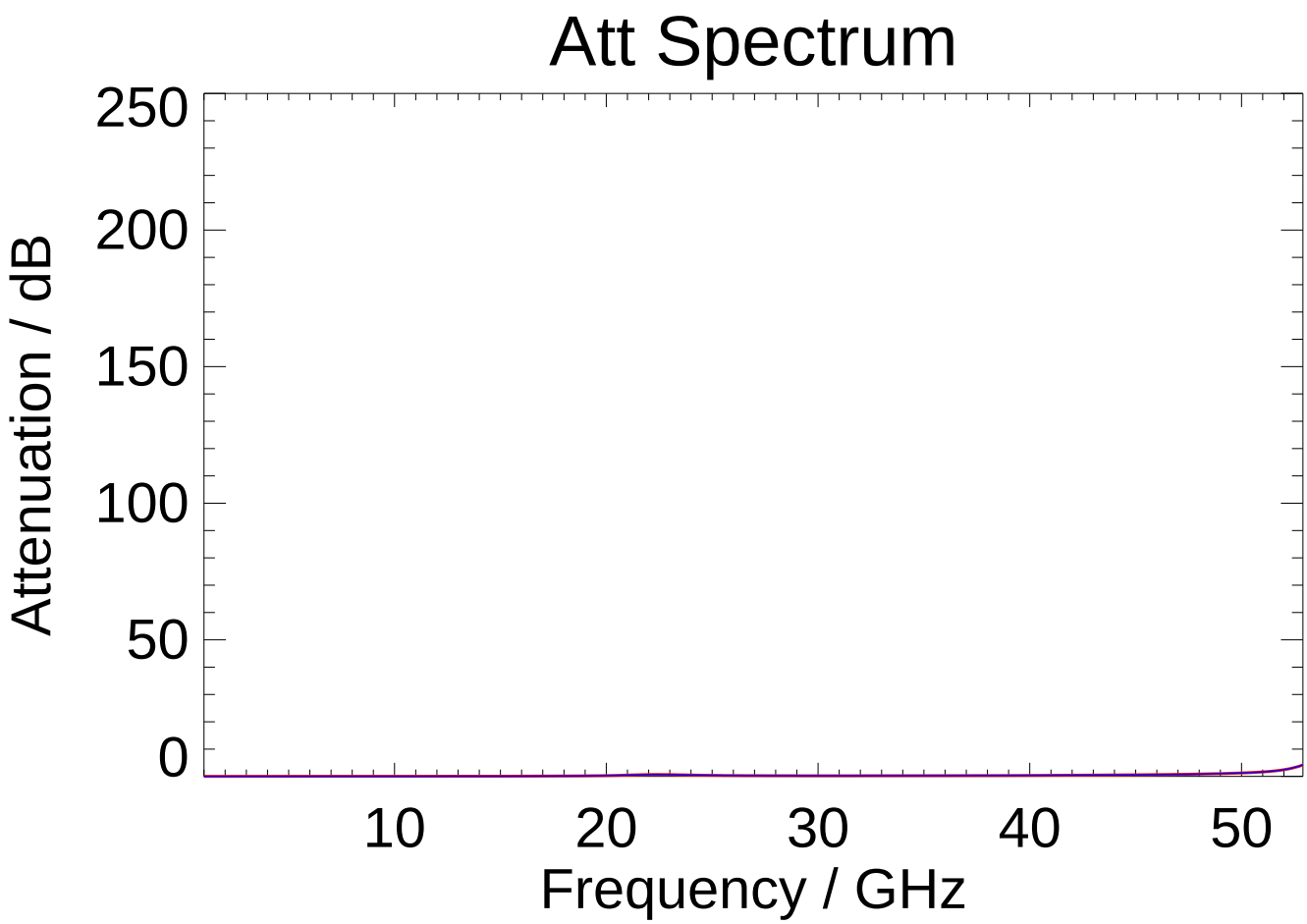
Frequency / GHz

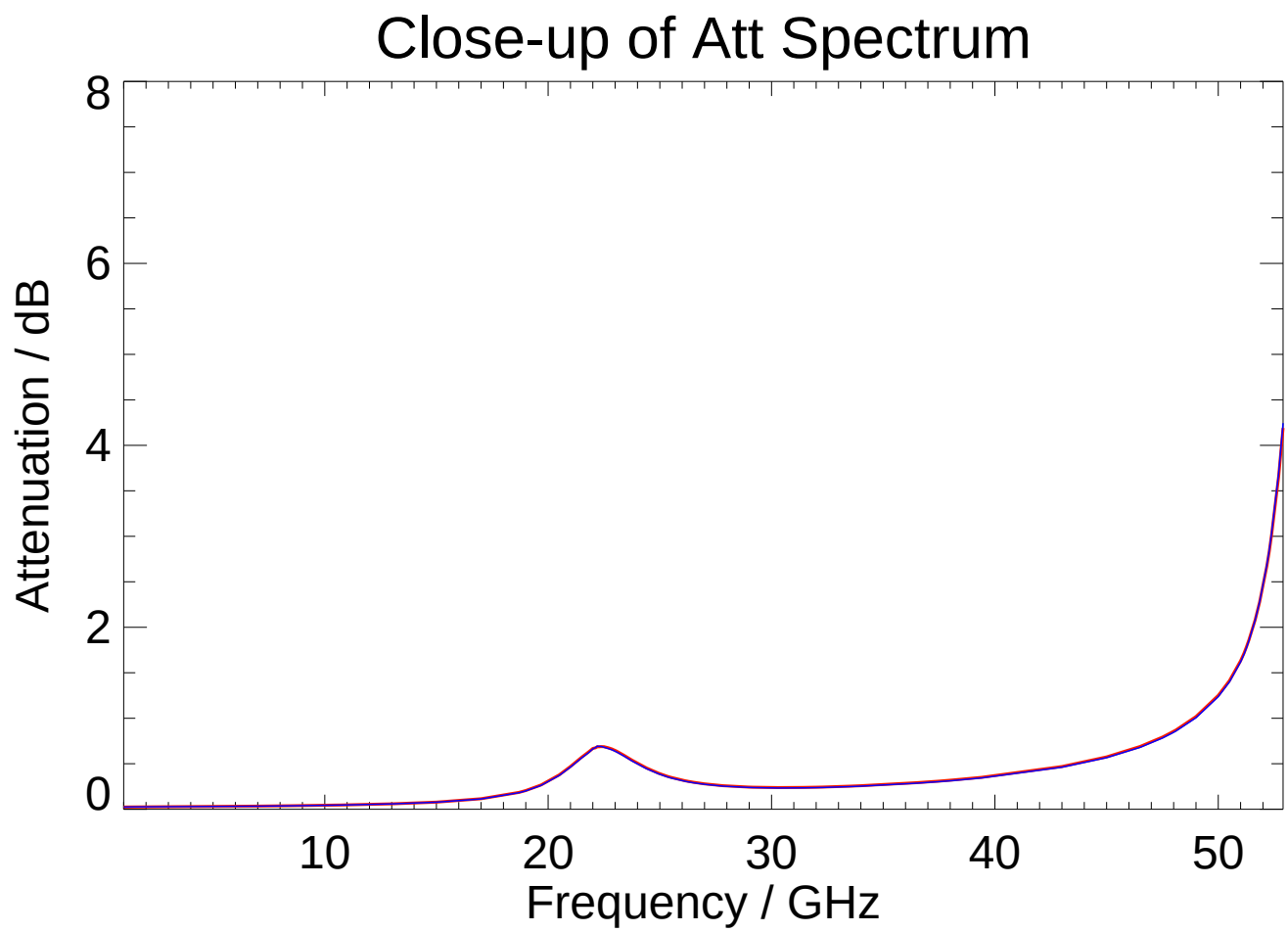

Att Spectrum
Attenuation / dB
250
200
150
100
50
0
10
20
30
40
50
Frequency / GHz

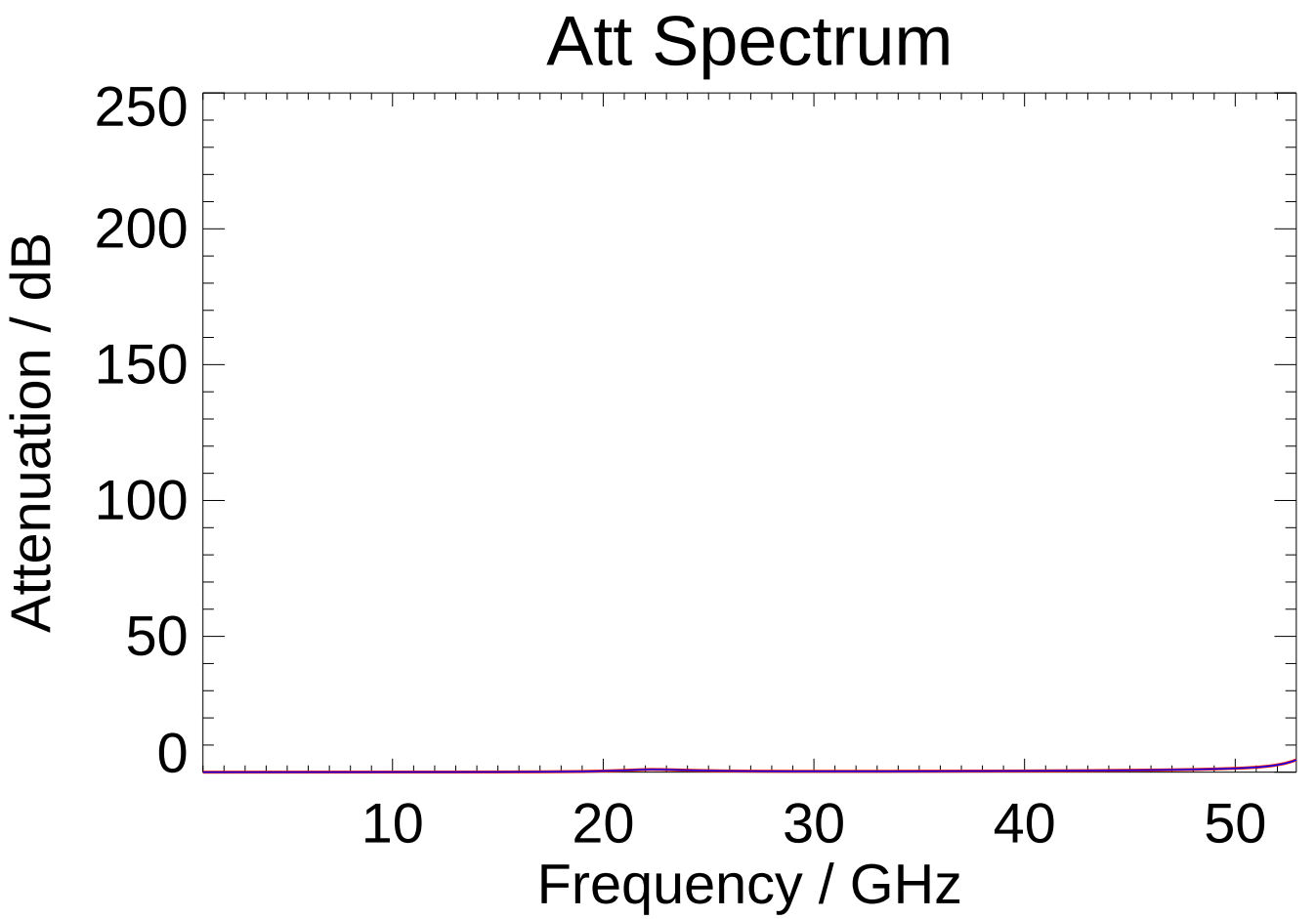

Close-up of Att Spectrum
Attenuation / dB
8
6
4
2
0
10
20
30
40
50
Frequency / GHz

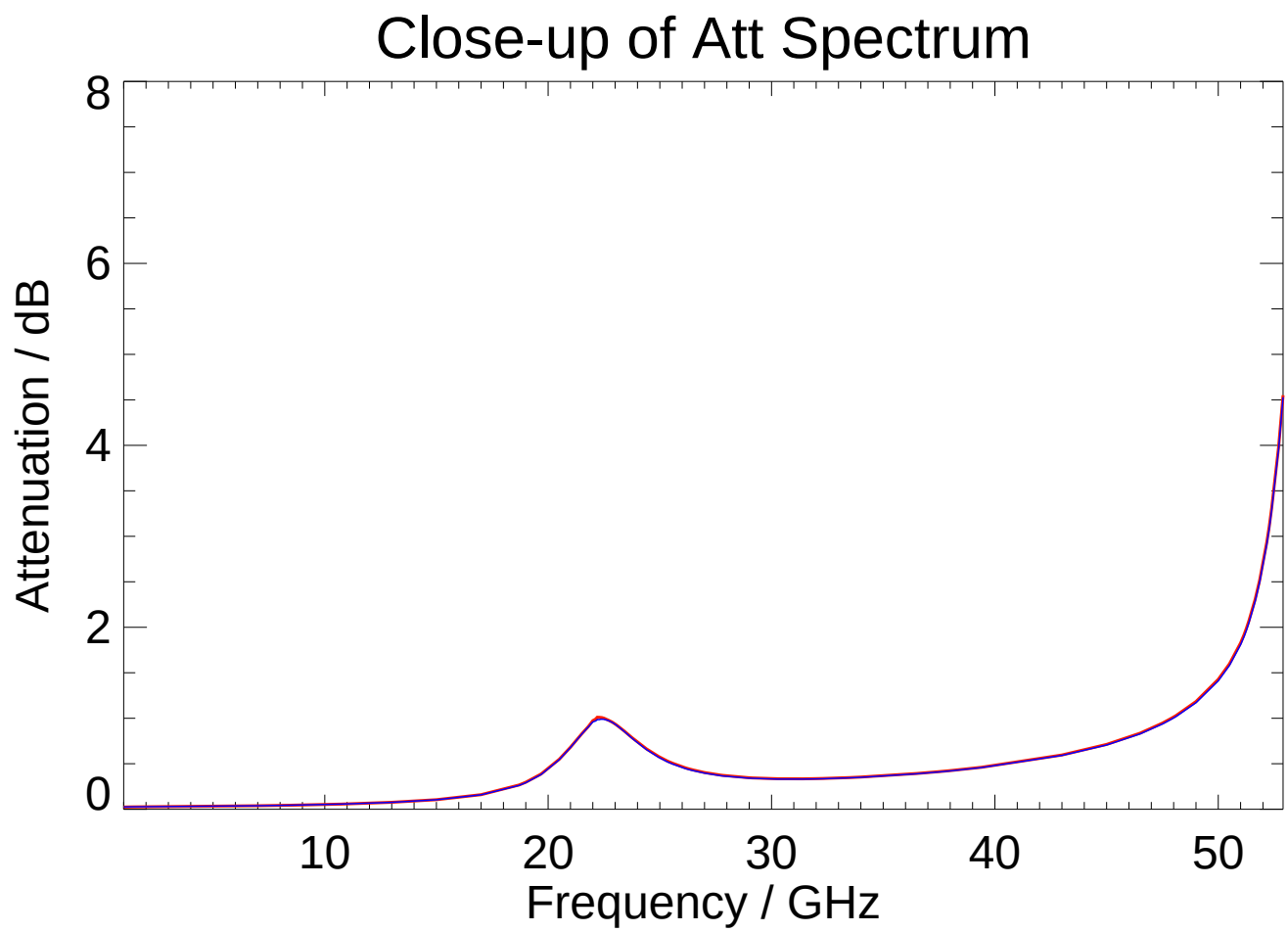

Att Spectrum
Attenuation / dB
250
200
150
100
50
0
10
20
30
40
50
Frequency / GHz

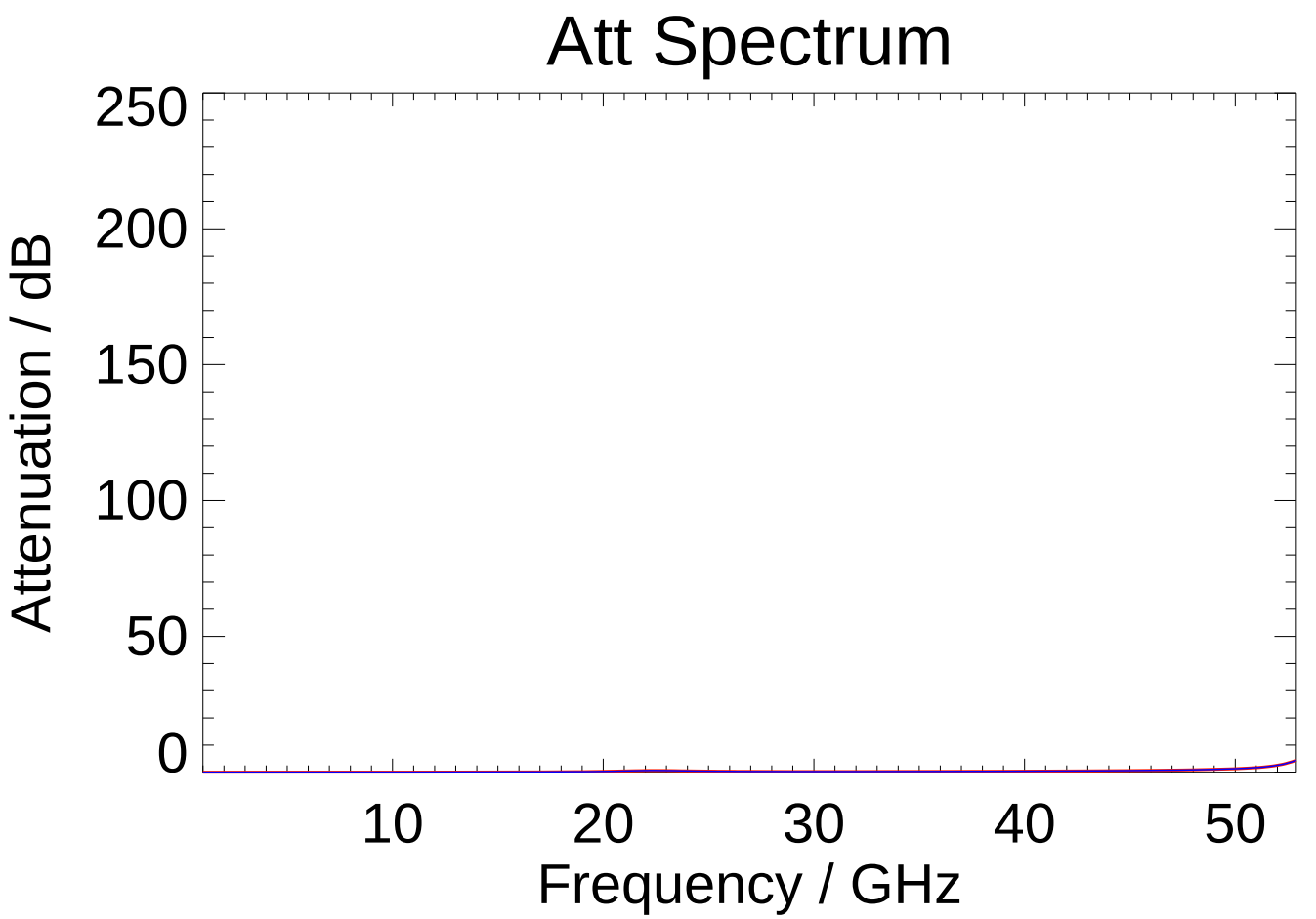

Close-up of Att Spectrum
Attenuation / dB
8
6
4
2
0
10
20
30
40
50
Frequency / GHz

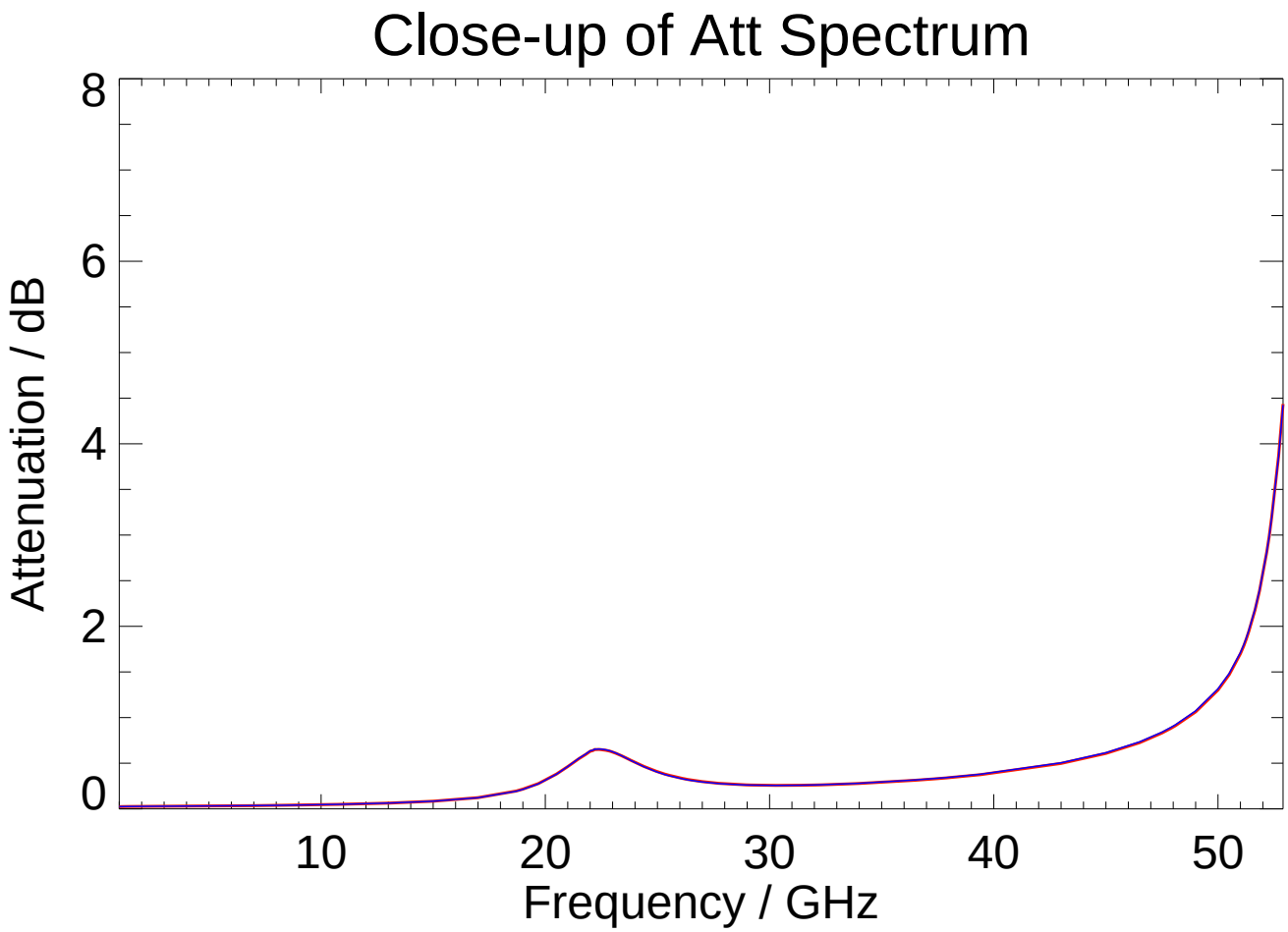

Att Spectrum
Attenuation / dB
250
200
150
100
50
0
10
20
30
40
50
Frequency / GHz

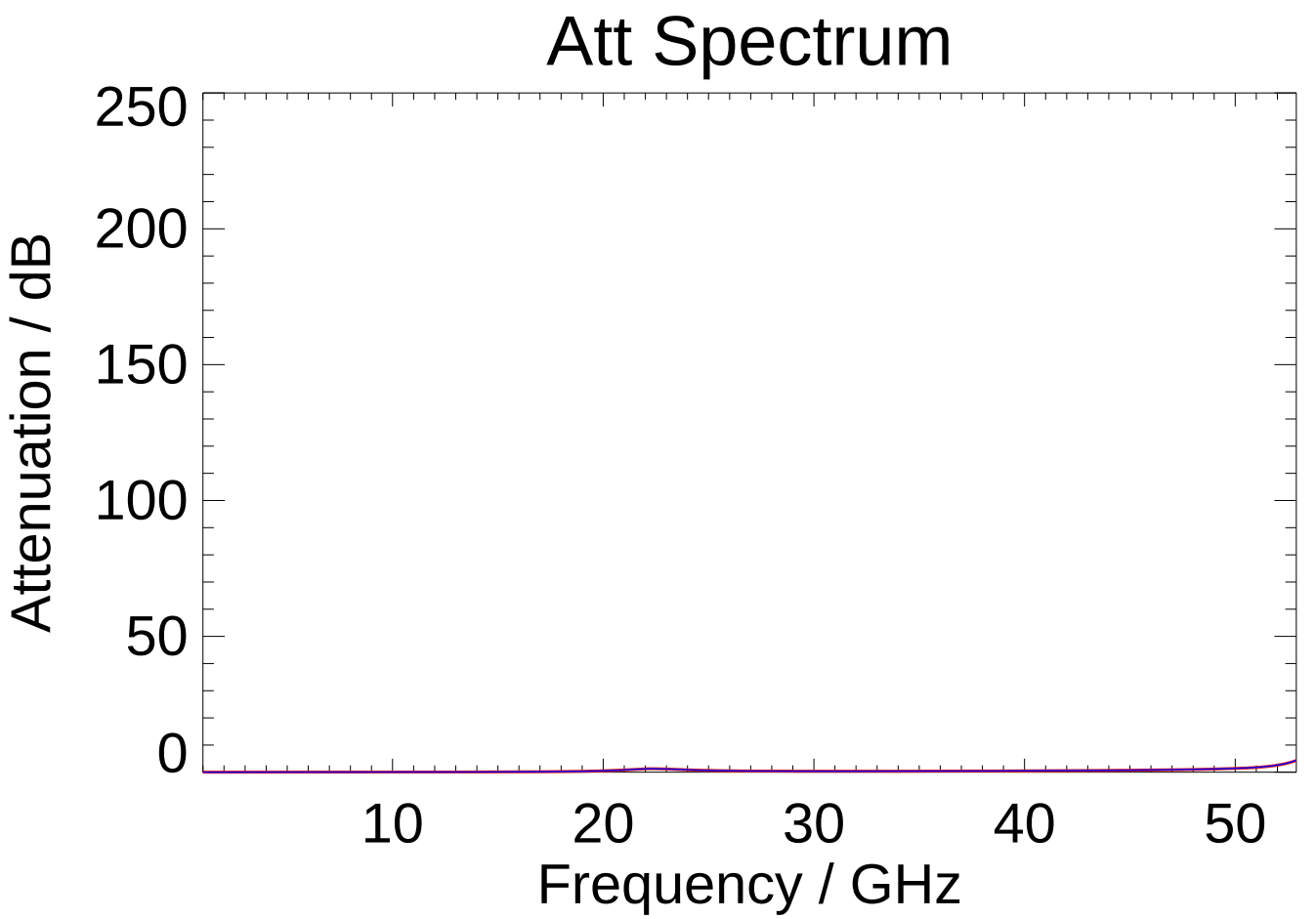

Close-up of Att Spectrum
Attenuation / dB
8
6
4
2
0
10
20
30
40
50
Frequency / GHz

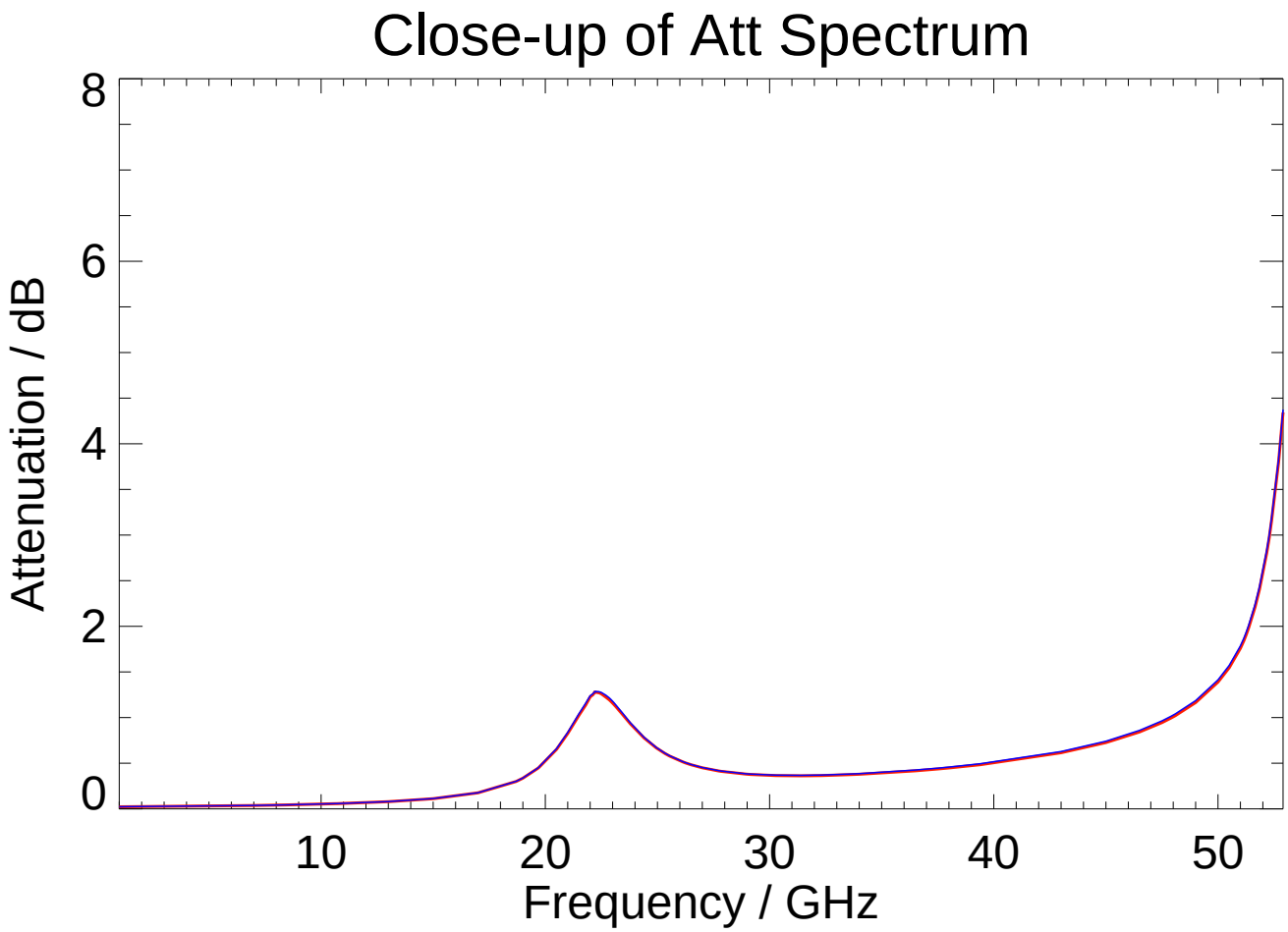

Att Spectrum
Attenuation / dB
250
200
150
100
50
0
10
20
30
40
50
Frequency / GHz

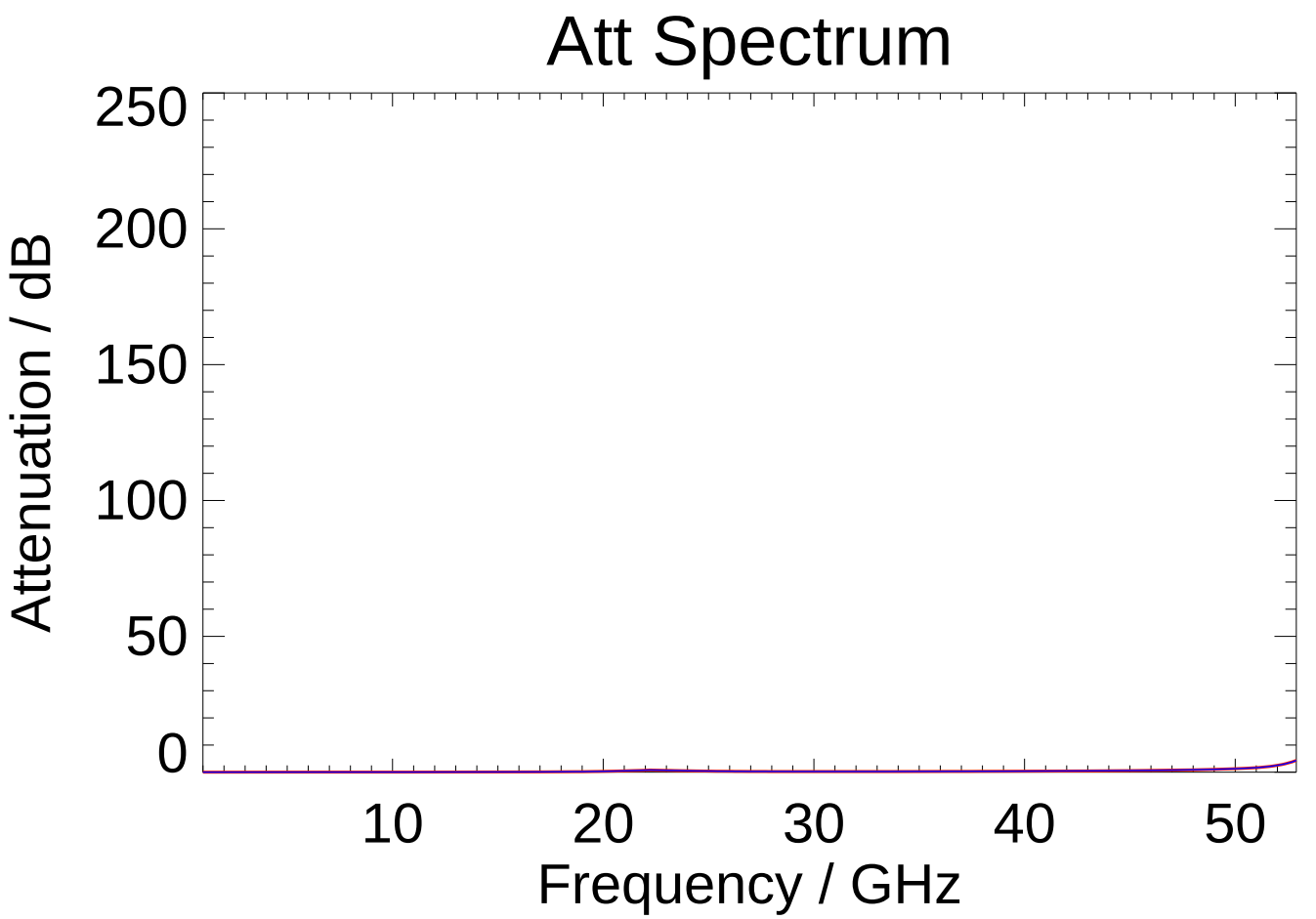

Close-up of Att Spectrum
Attenuation / dB
8
6
4
2
0
10
20
30
40
50
Frequency / GHz

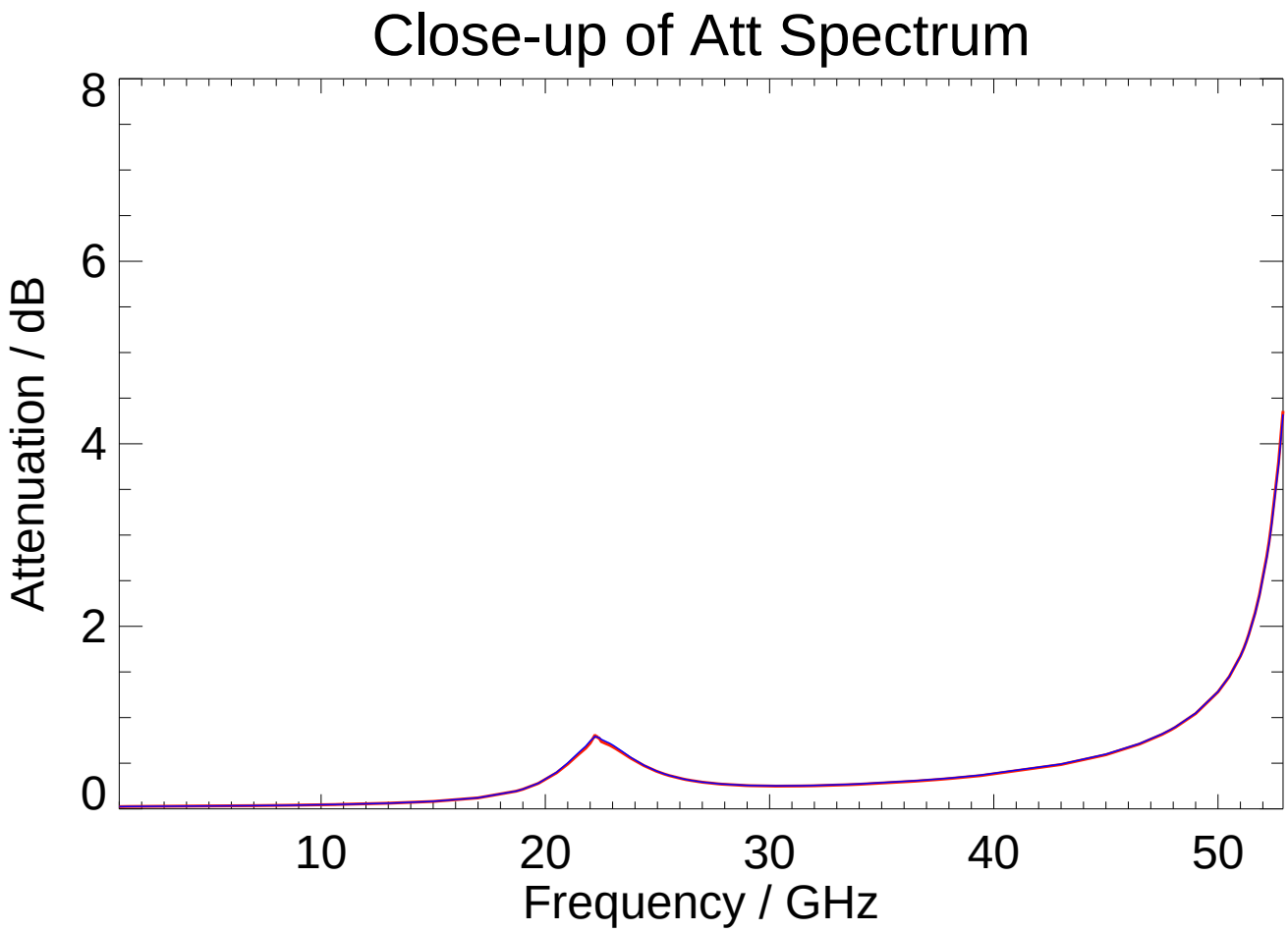

Att Spectrum
Attenuation / dB
250
200
150
100
50
0
10
20
30
40
50
Frequency / GHz

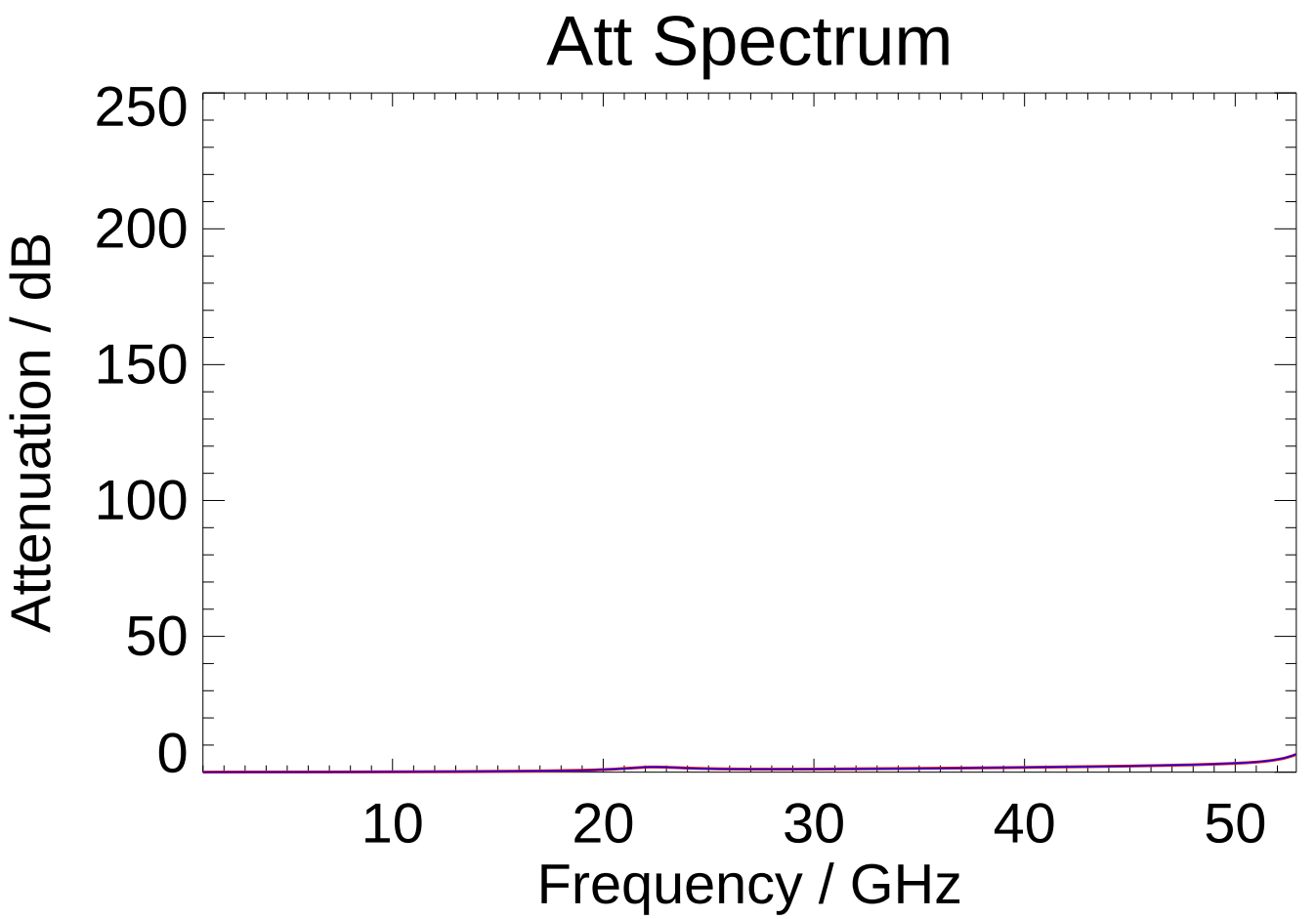

Close-up of Att Spectrum
Attenuation / dB
8
6
4
2
0
10
20
30
40
50
Frequency / GHz

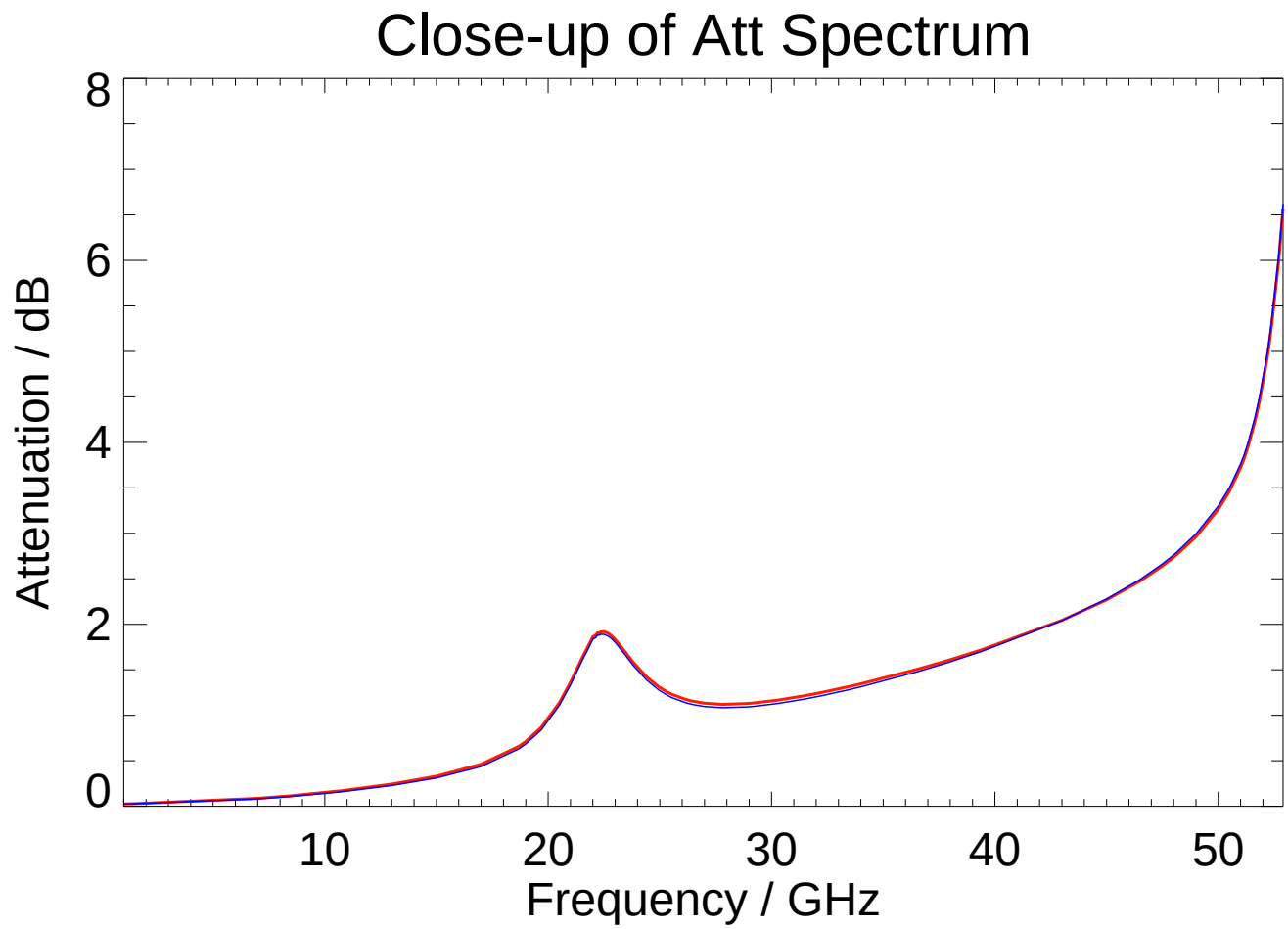

Att Spectrum
Attenuation / dB
250
200
150
100
50
0
10
20
30
40
50
Frequency / GHz

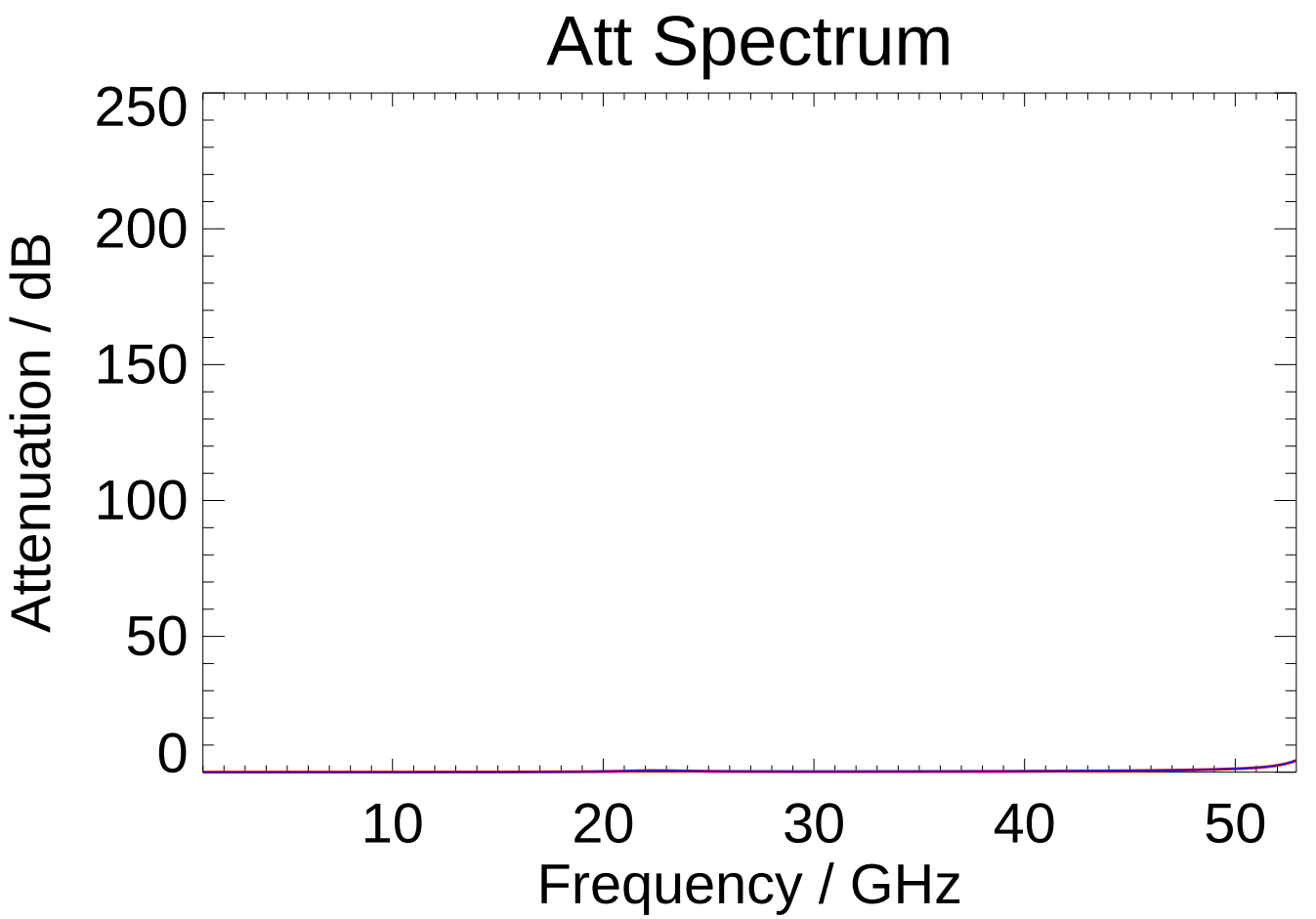

Close-up of Att Spectrum
Attenuation / dB
8
6
4
2
0
10
20
30
40
50
Frequency / GHz

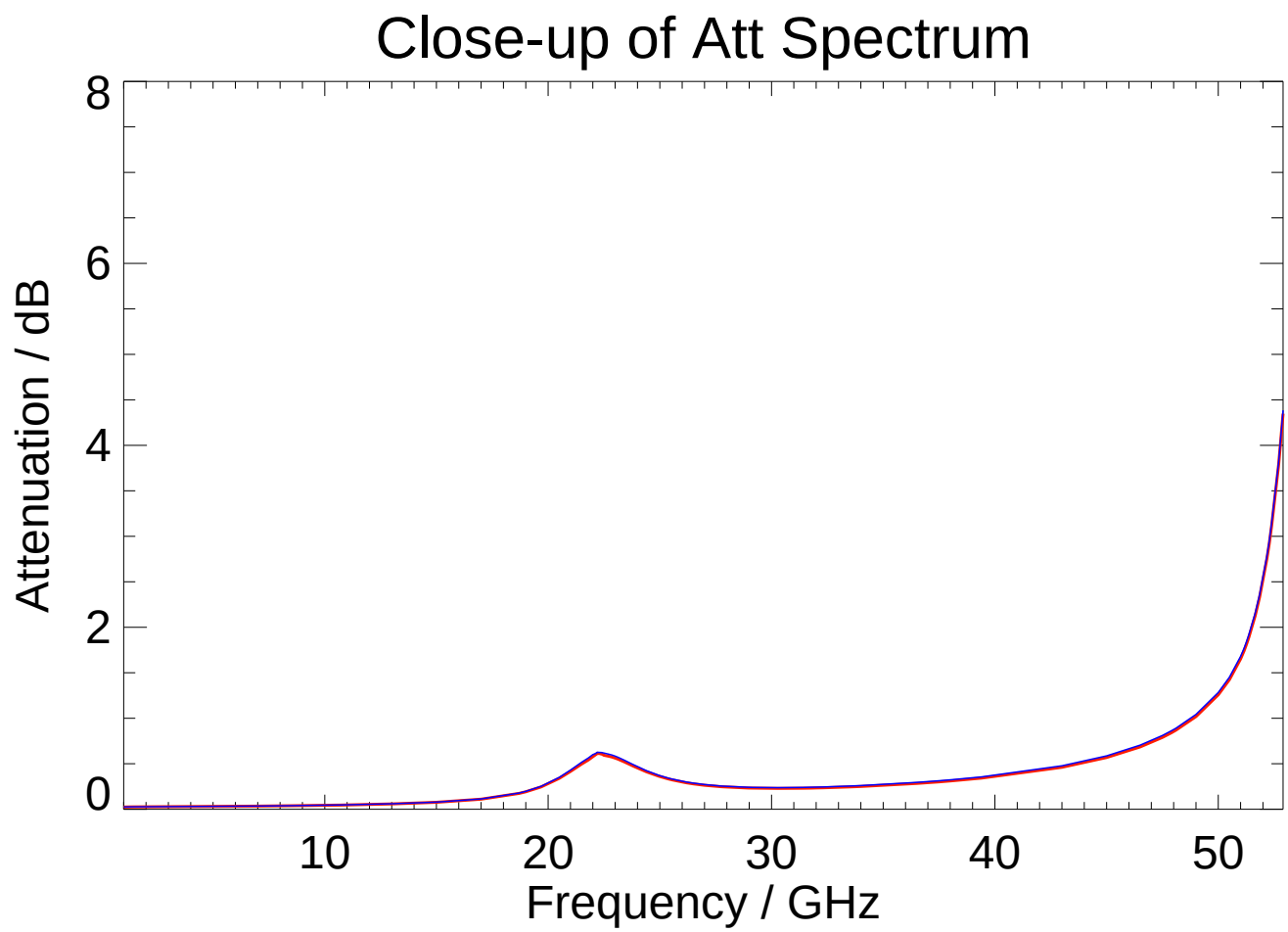

Att Spectrum
Attenuation / dB
250
200
150
100
50
0
10
20
30
40
50
Frequency / GHz

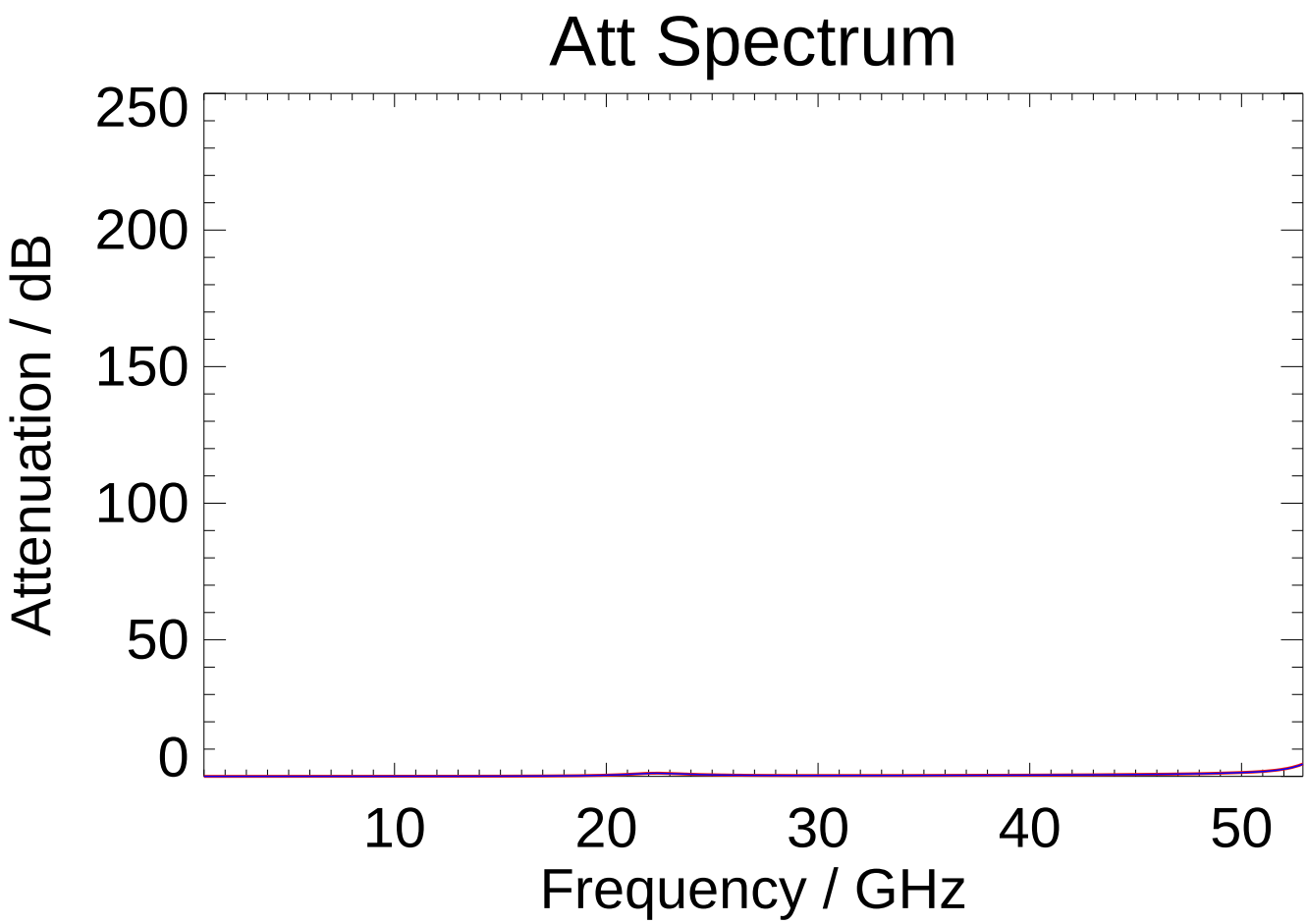

Close-up of Att Spectrum
Attenuation / dB
8
6
4
2
0
10
20
30
40
50
Frequency / GHz

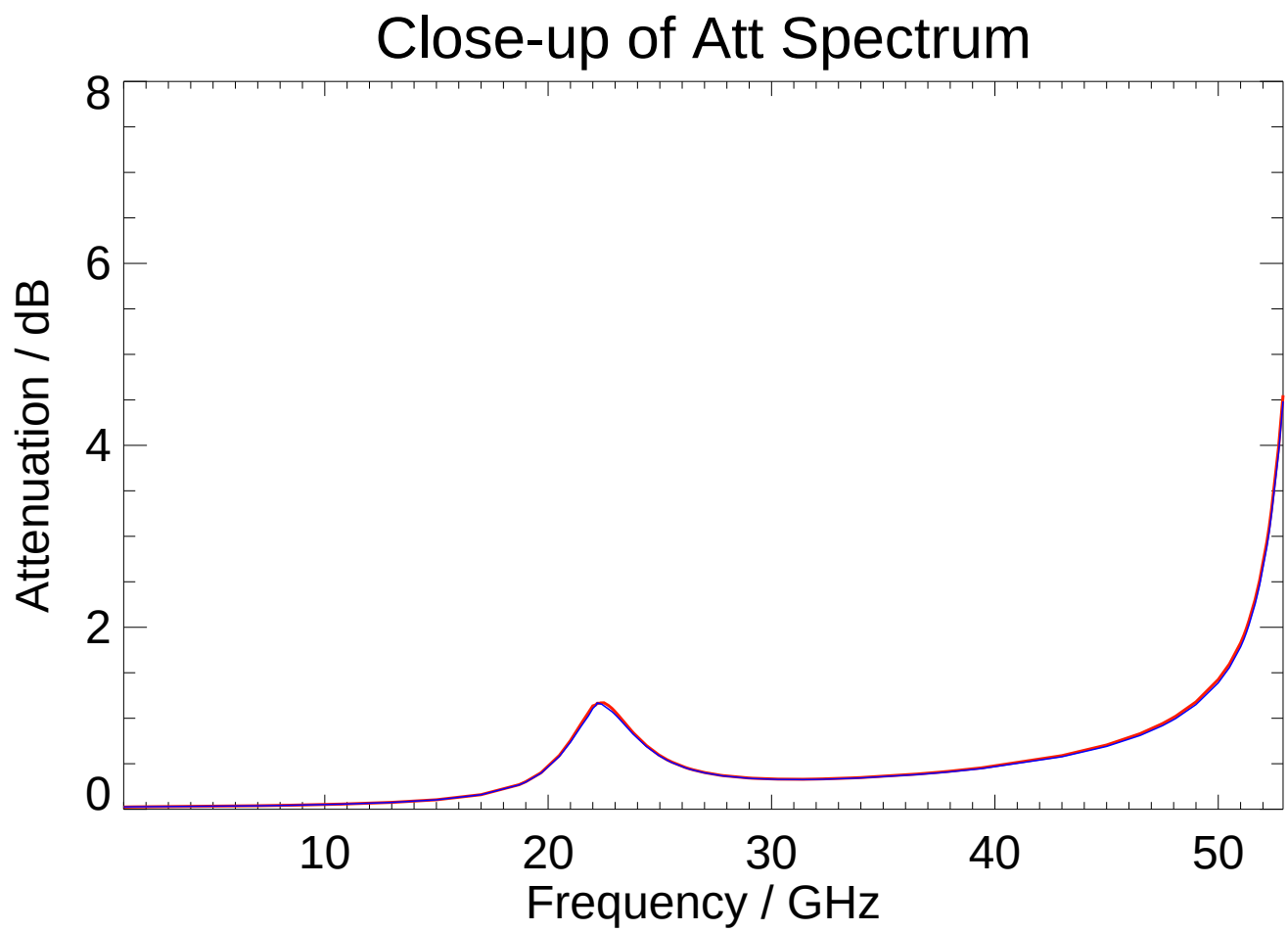

Att Spectrum
Attenuation / dB
250
200
150
100
50
0
10
20
30
40
50
Frequency / GHz

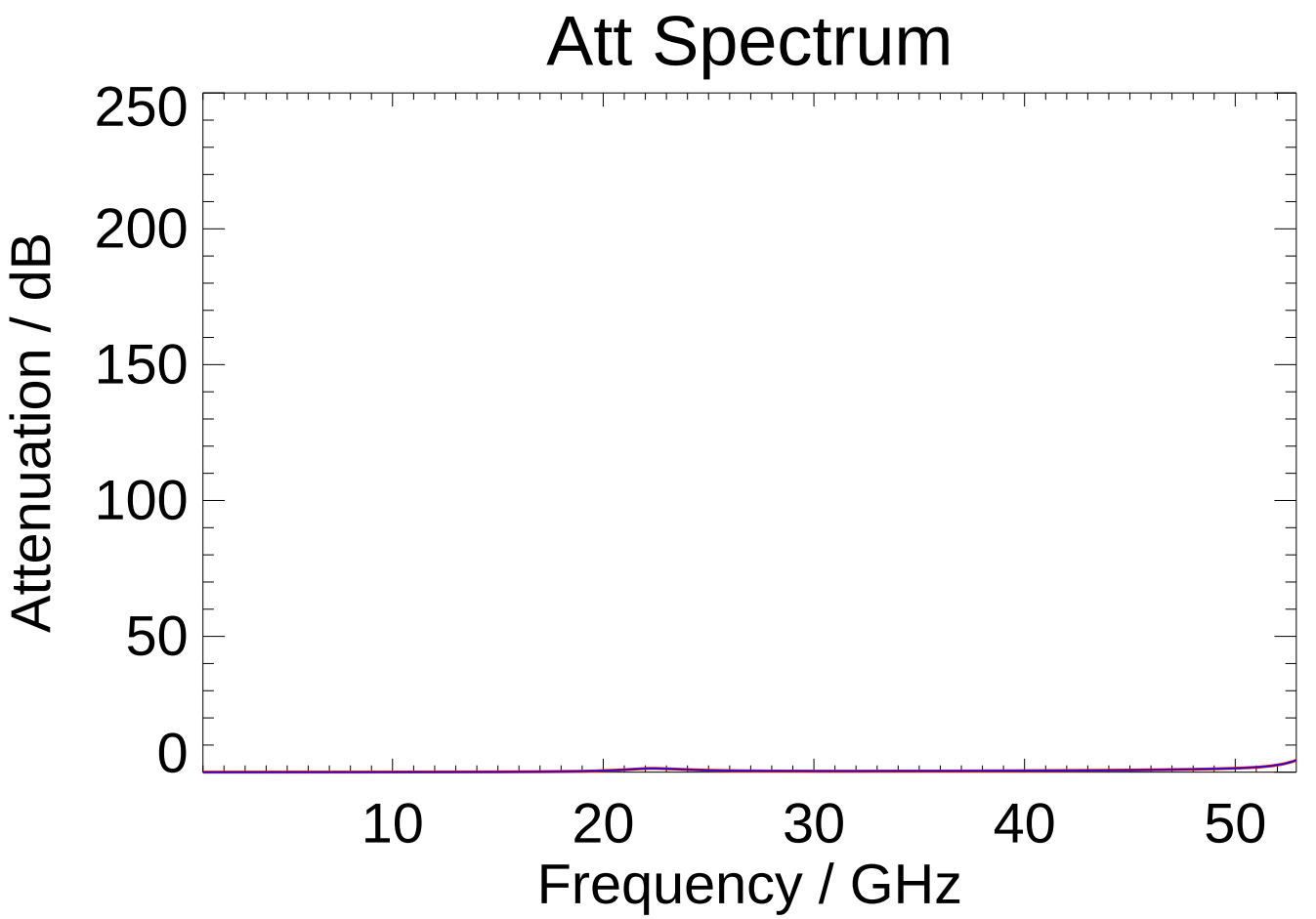

Close-up of Att Spectrum
Attenuation / dB
8
6
4
2
0
10
20
30
40
50
Frequency / GHz

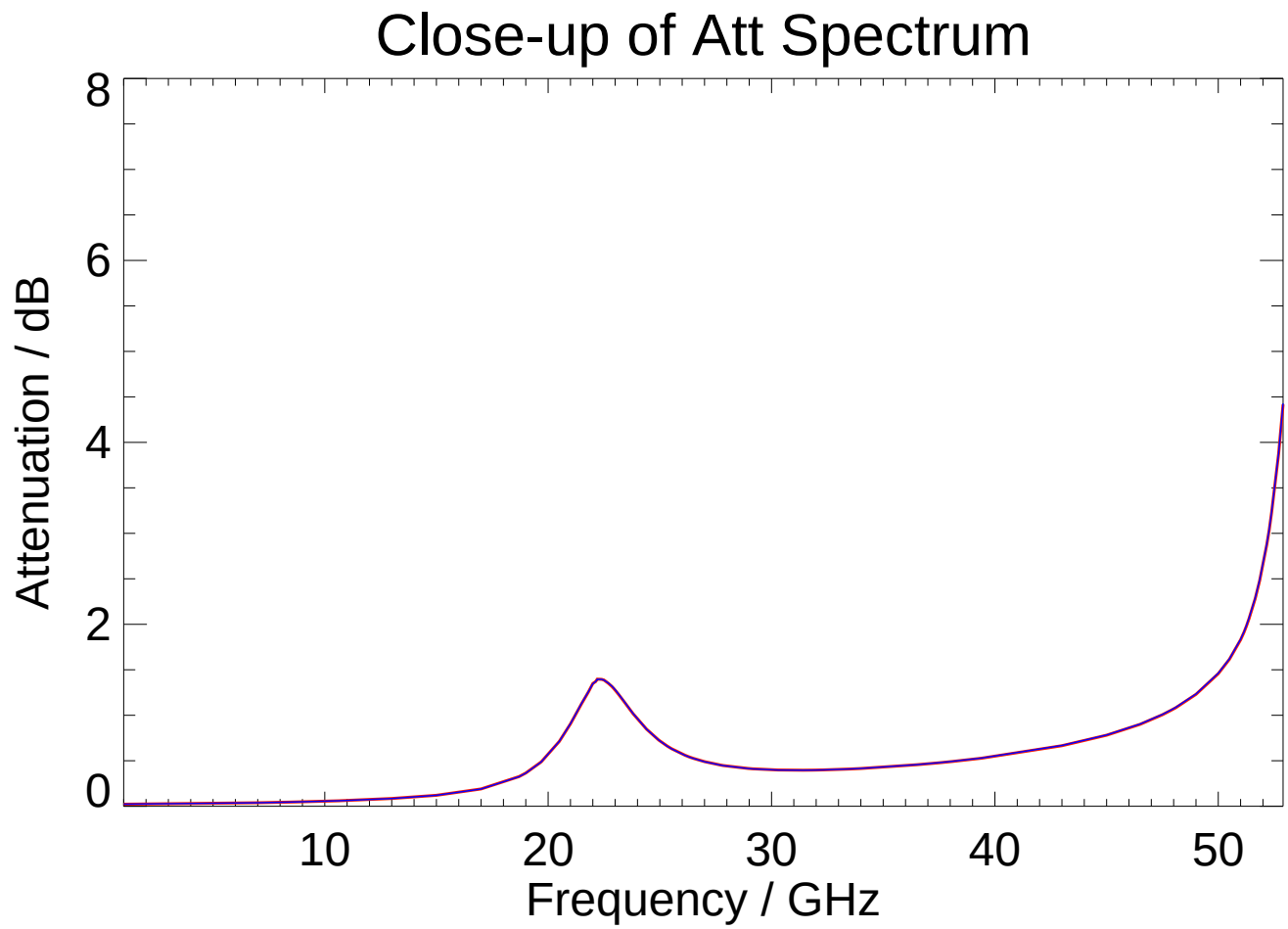

Att Spectrum
Attenuation / dB
250
200
150
100
50
0
10
20
30
40
50
Frequency / GHz

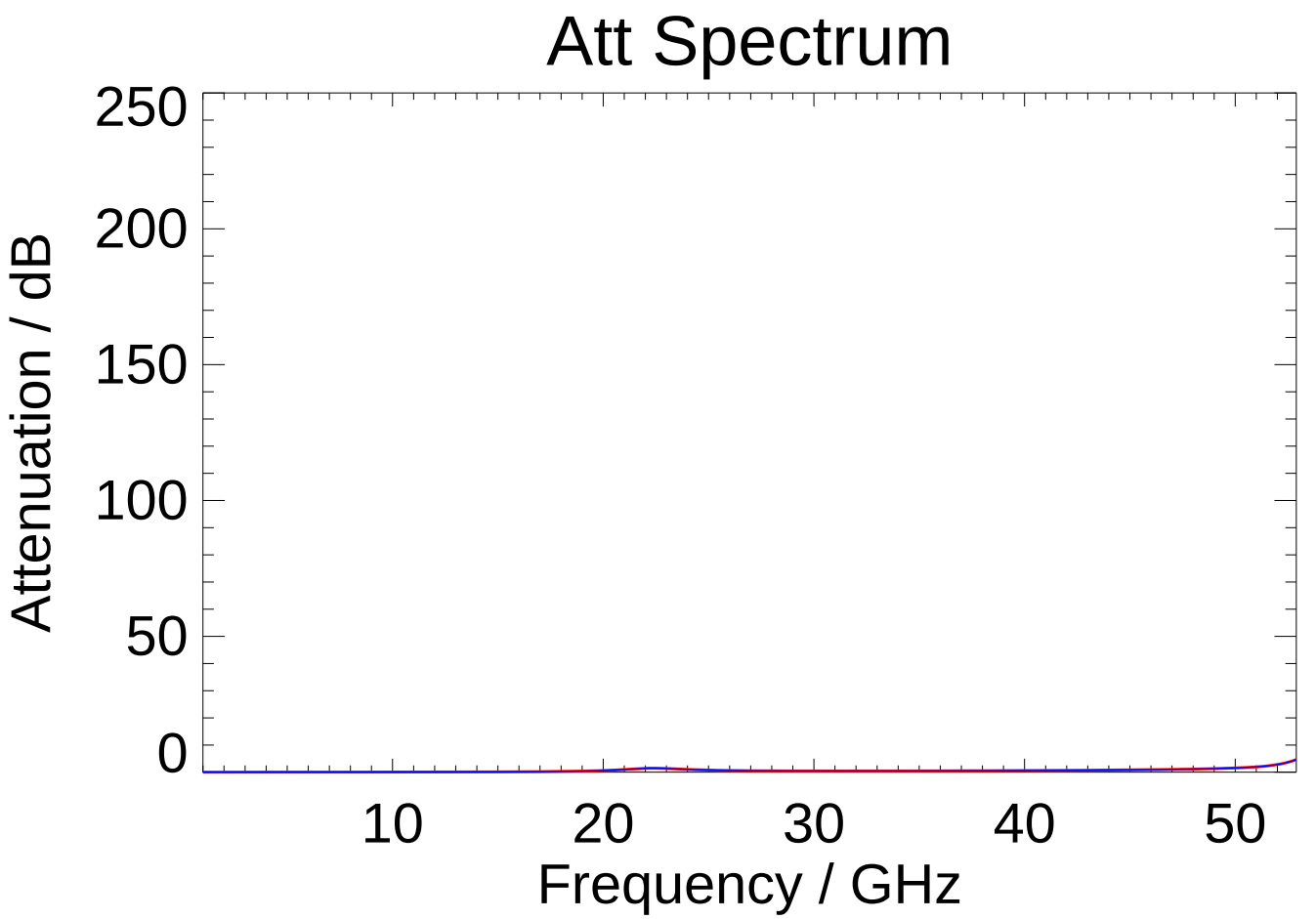

Close-up of Att Spectrum
Attenuation / dB
8
6
4
2
0
10
20
30
40
50
Frequency / GHz

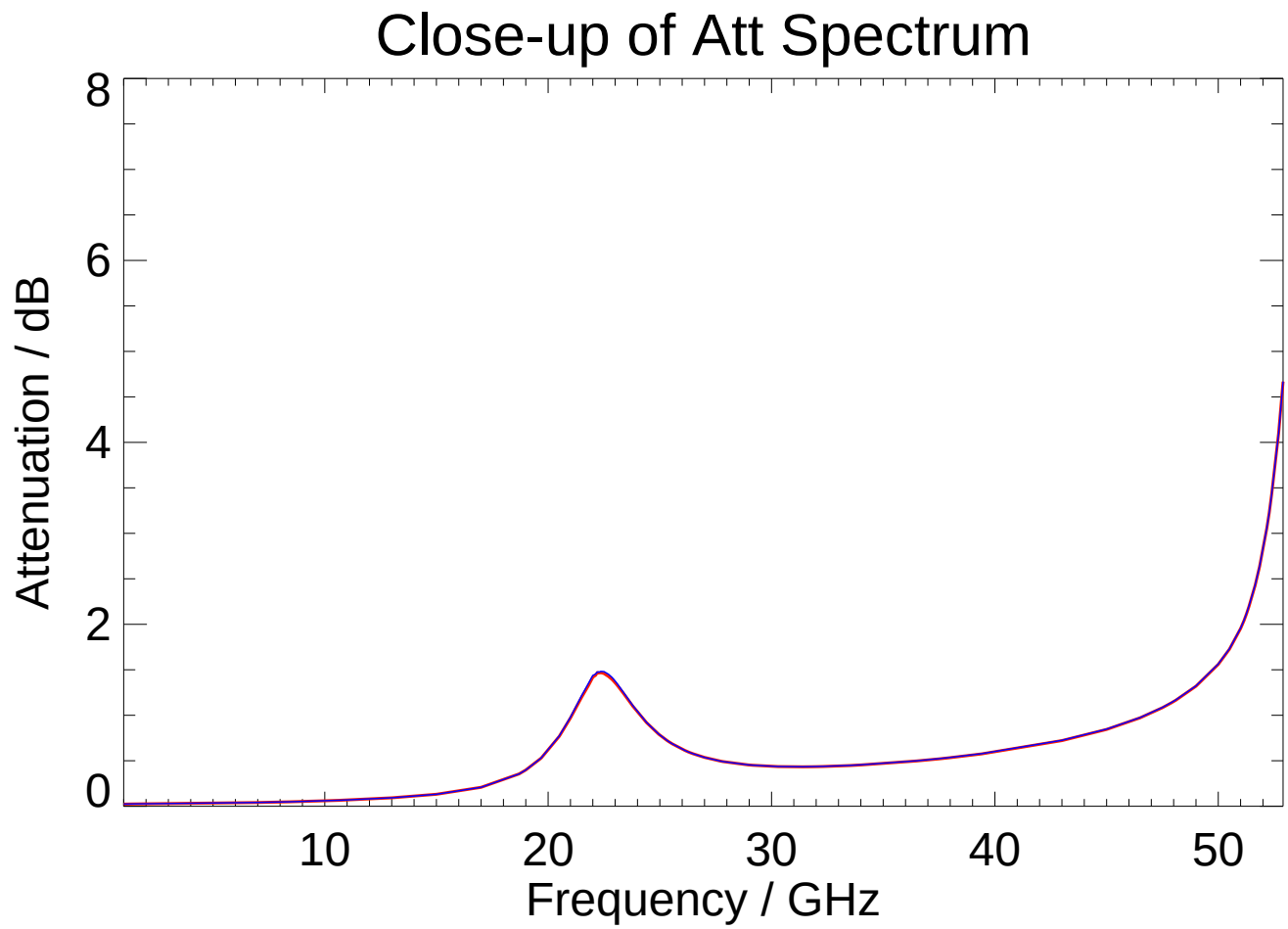

Att Spectrum
Attenuation / dB
250
200
150
100
50
0
10
20
30
40
50
Frequency / GHz

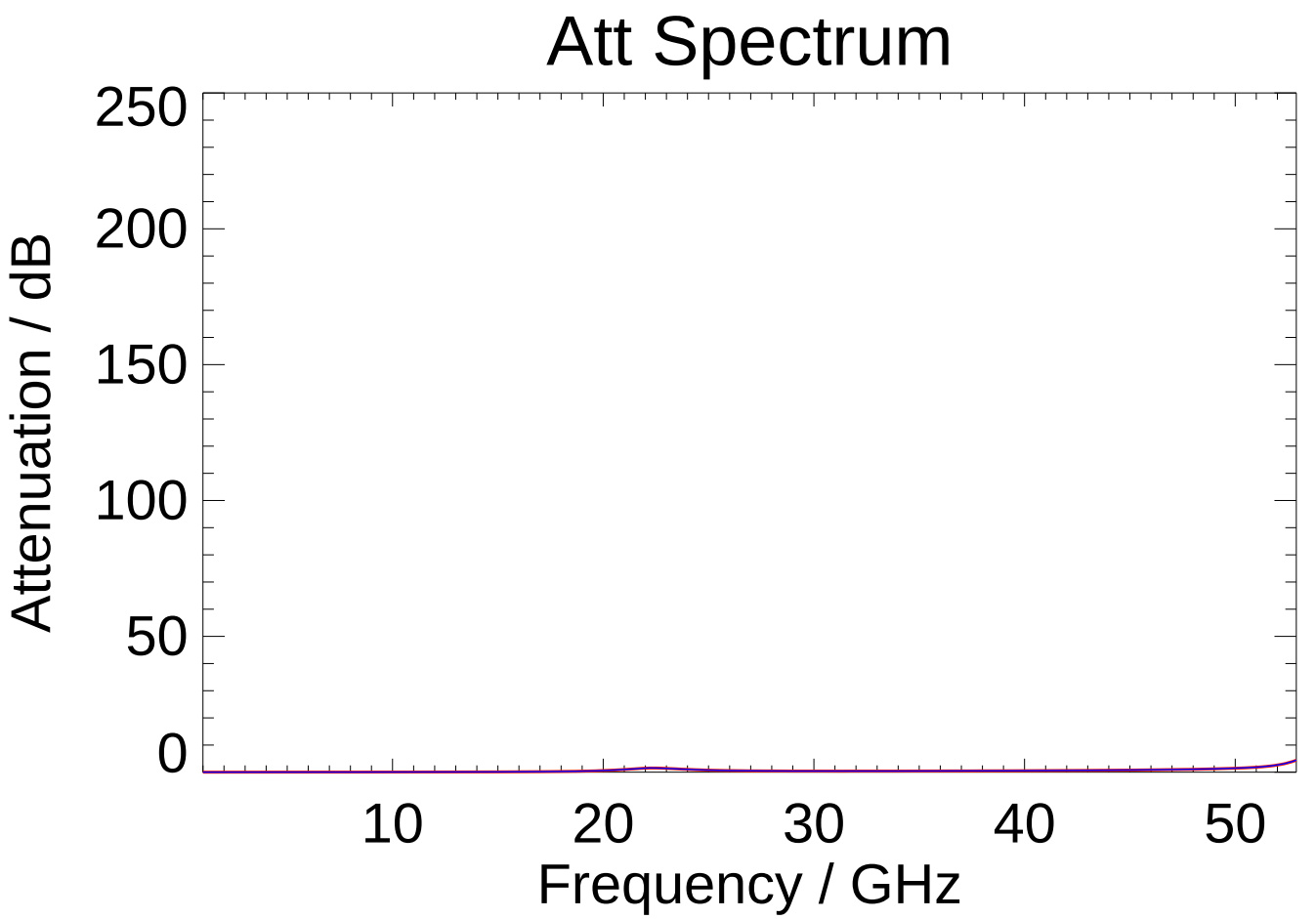

Close-up of Att Spectrum
Attenuation / dB
8
6
4
2
0
10
20
30
40
50
Frequency / GHz

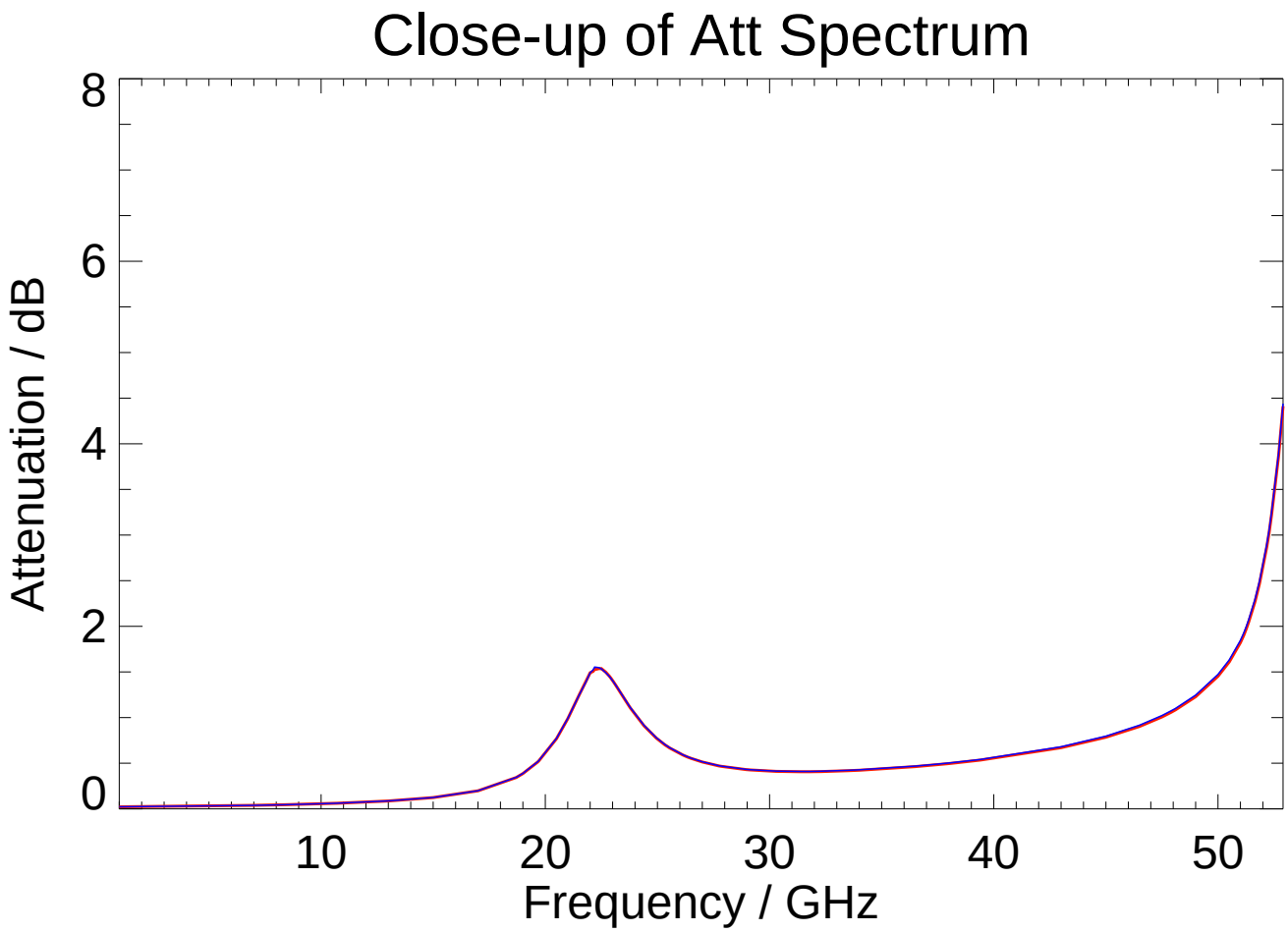

Att Spectrum
Attenuation / dB
250
200
150
100
50
0
10
20
30
40
50
Frequency / GHz

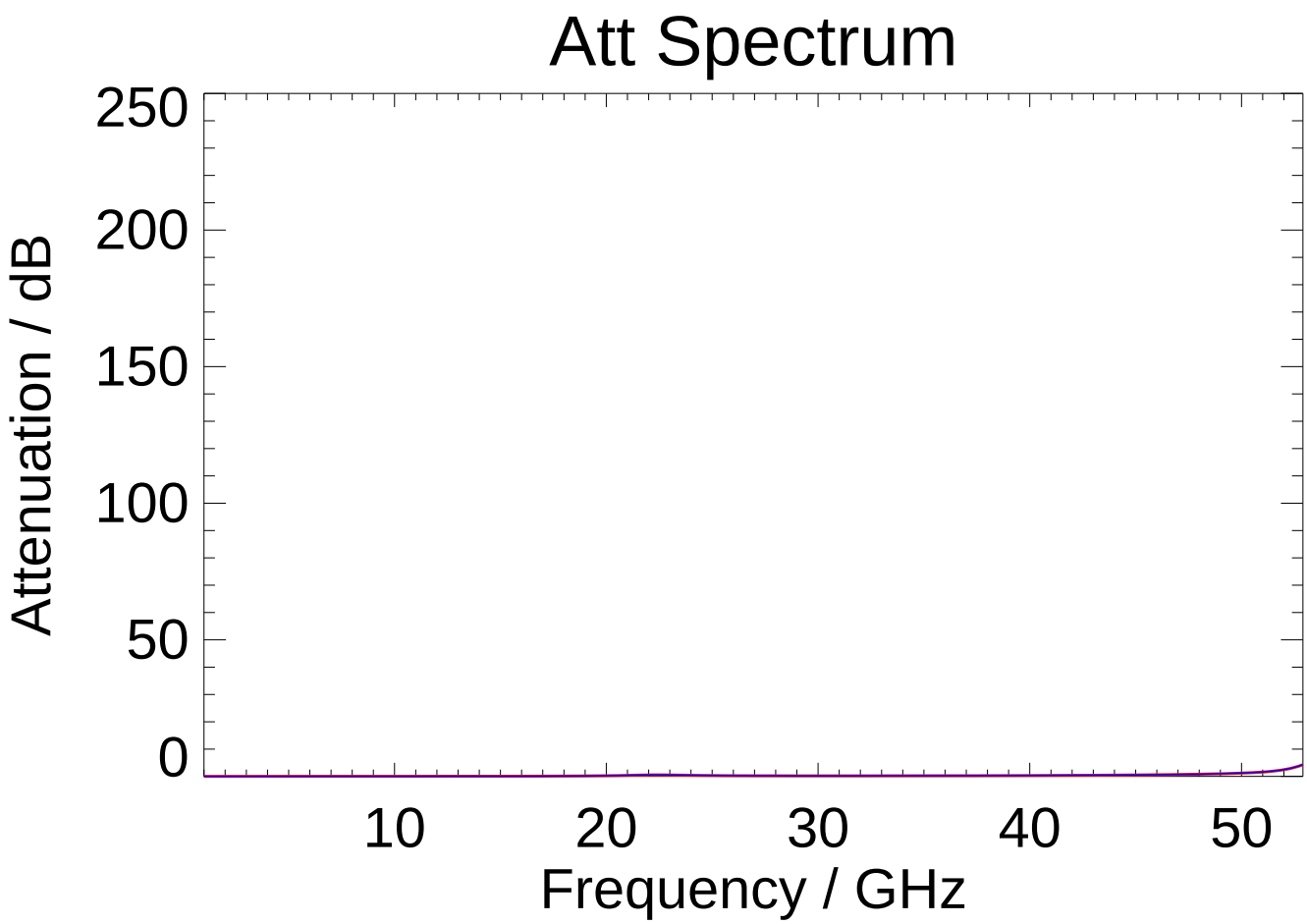

Close-up of Att Spectrum
Attenuation / dB
8
6
4
2
0
10
20
30
40
50
Frequency / GHz

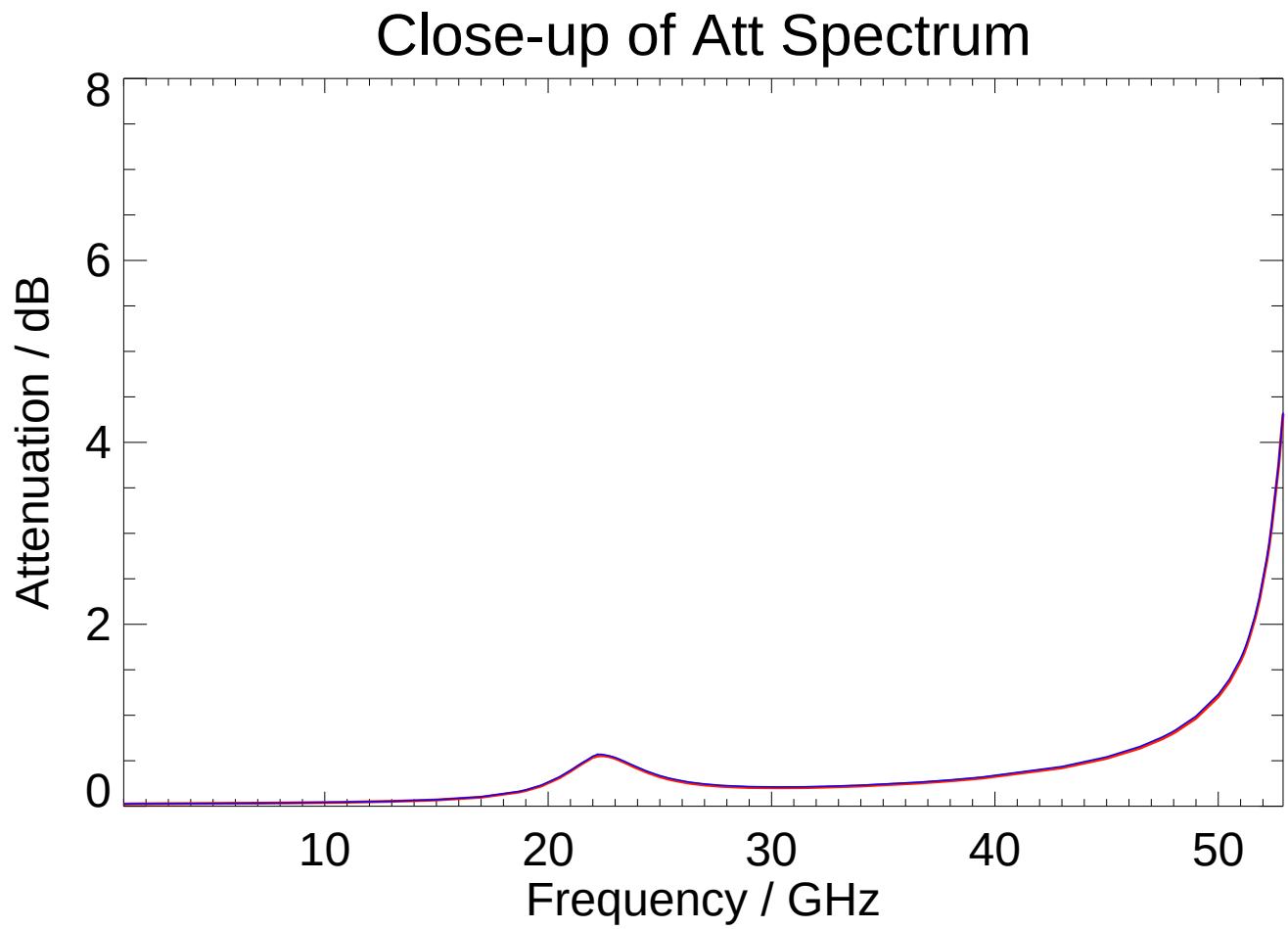

Att Spectrum
Attenuation / dB
250
200
150
100
50
0
10
20
30
40
50
Frequency / GHz

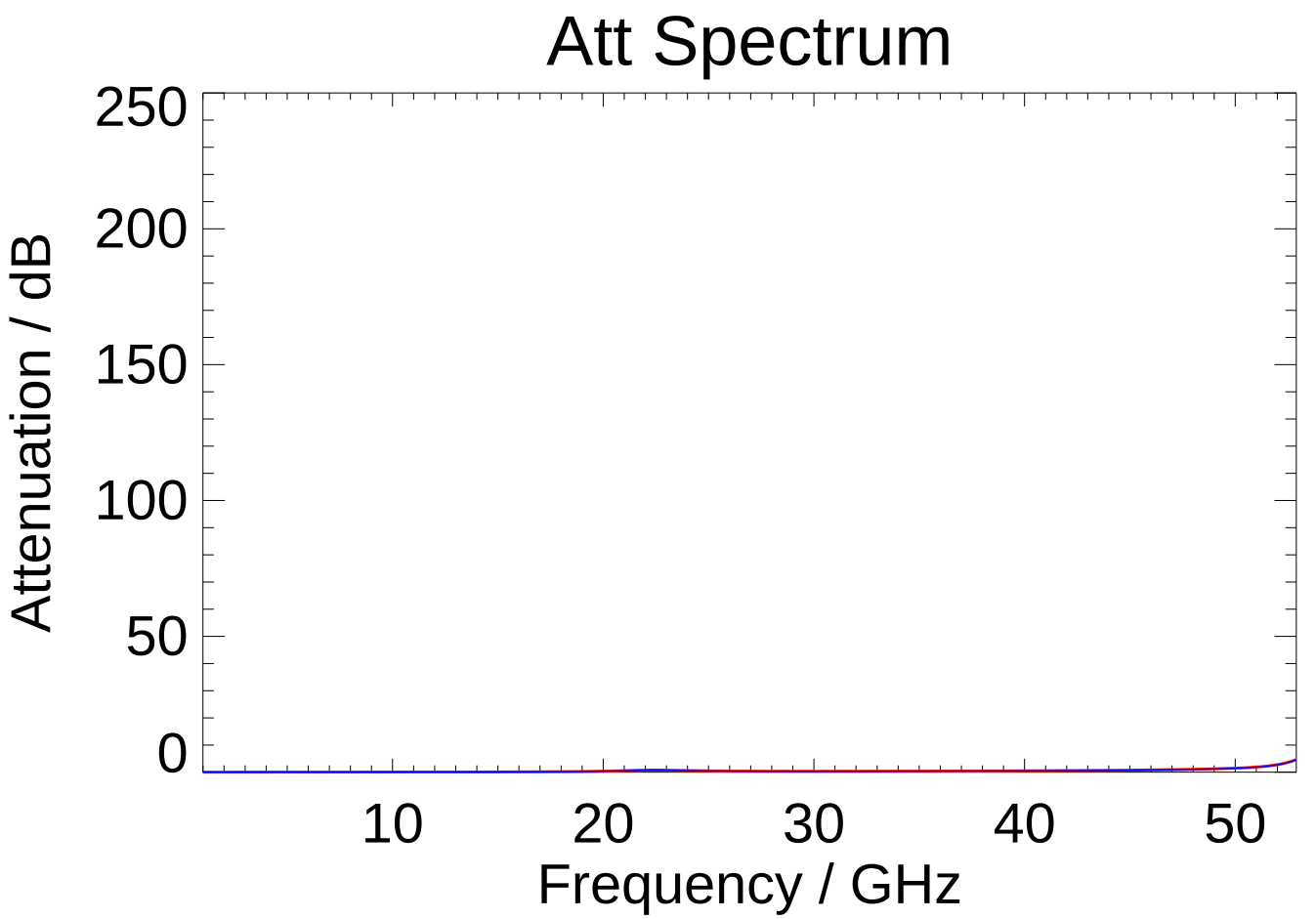

Close-up of Att Spectrum
Attenuation / dB
8
6
4
2
0
10
20
30
40
50
Frequency / GHz

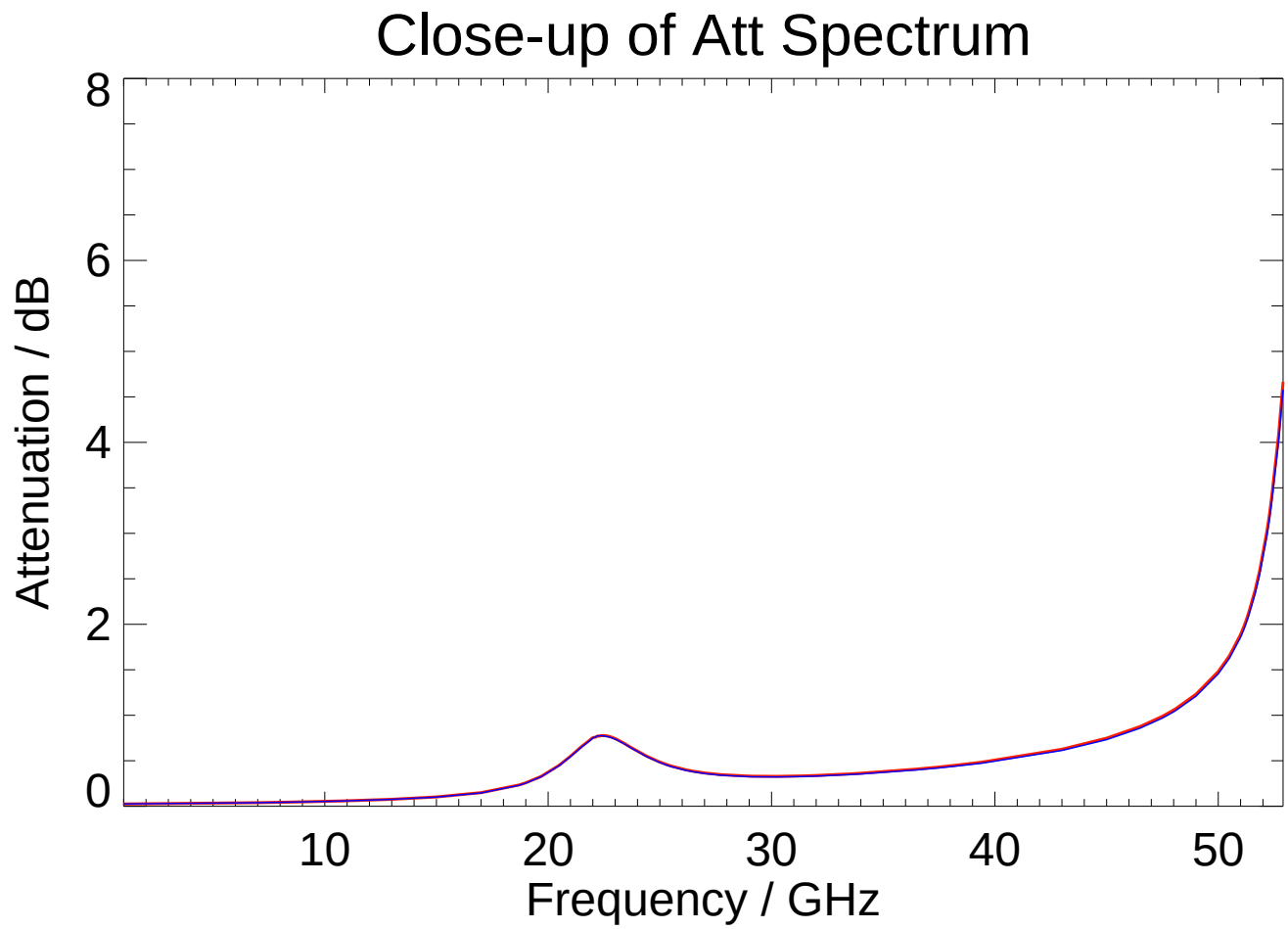

Att Spectrum
Attenuation / dB
250
200
150
100
50
0
10
20
30
40
50
Frequency / GHz

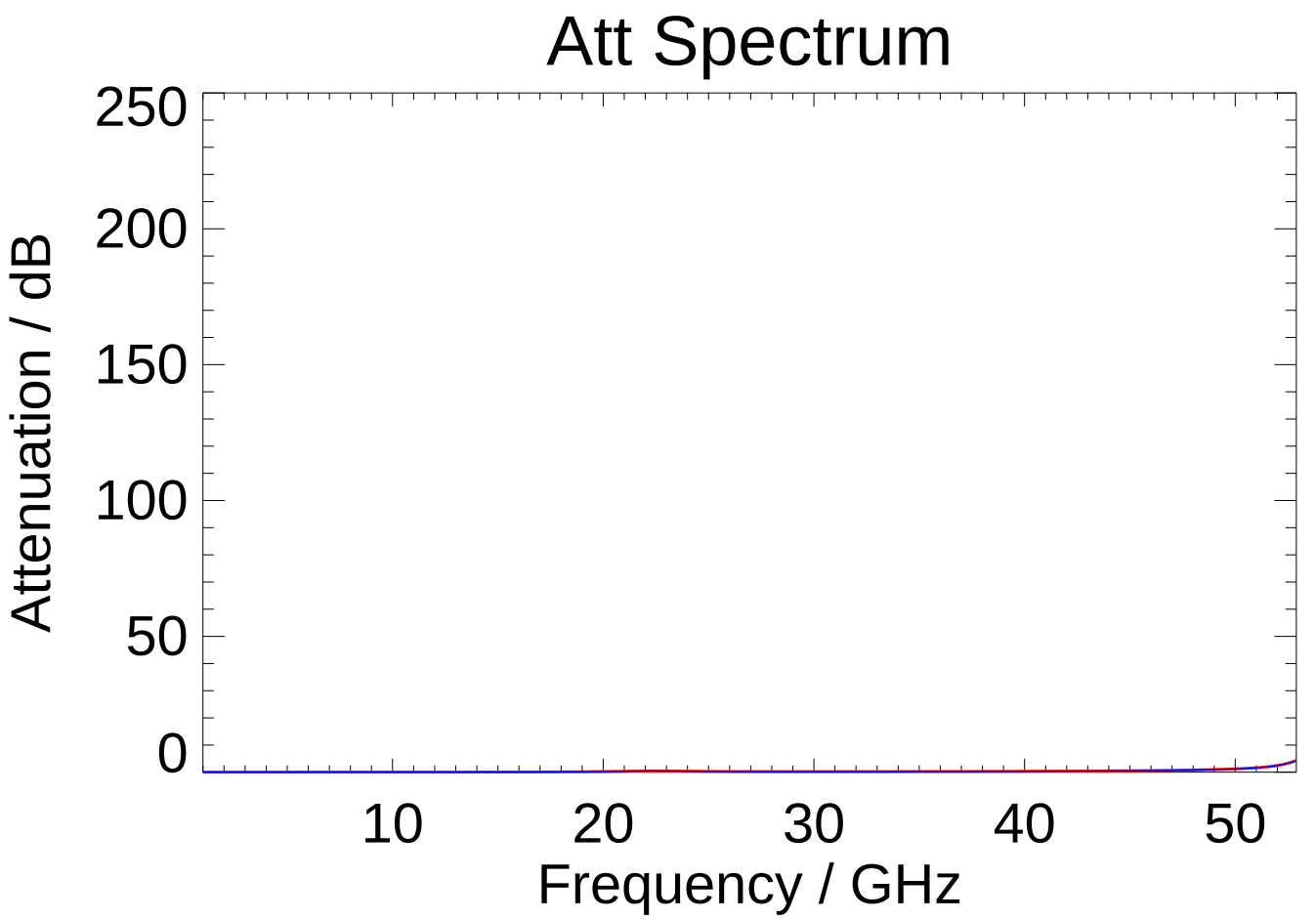

Close-up of Att Spectrum
Attenuation / dB
8
6
4
2
0
10
20
30
40
50
Frequency / GHz

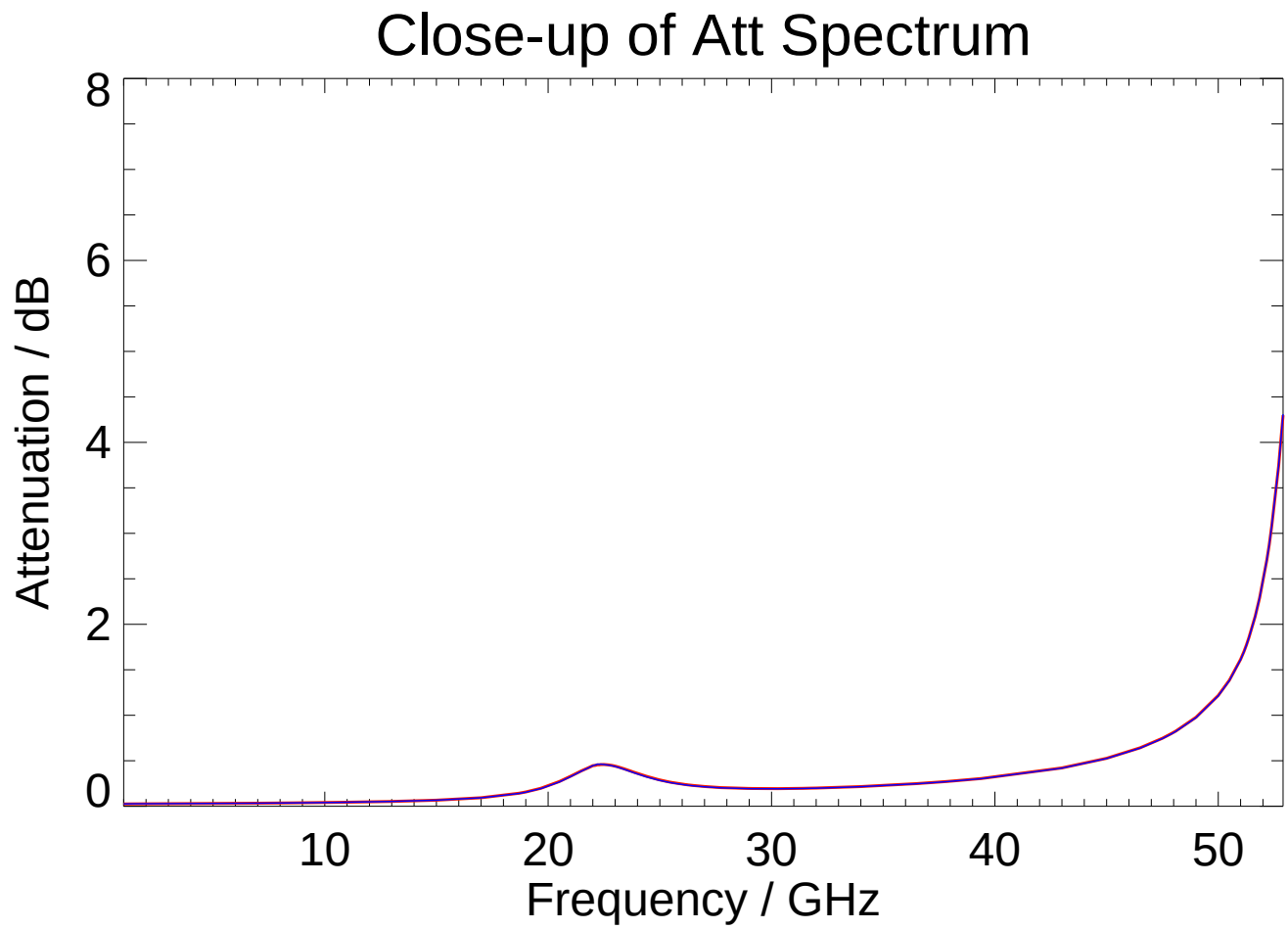

Att Spectrum
Attenuation / dB
250
200
150
100
50
0
10
20
30
40
50
Frequency / GHz

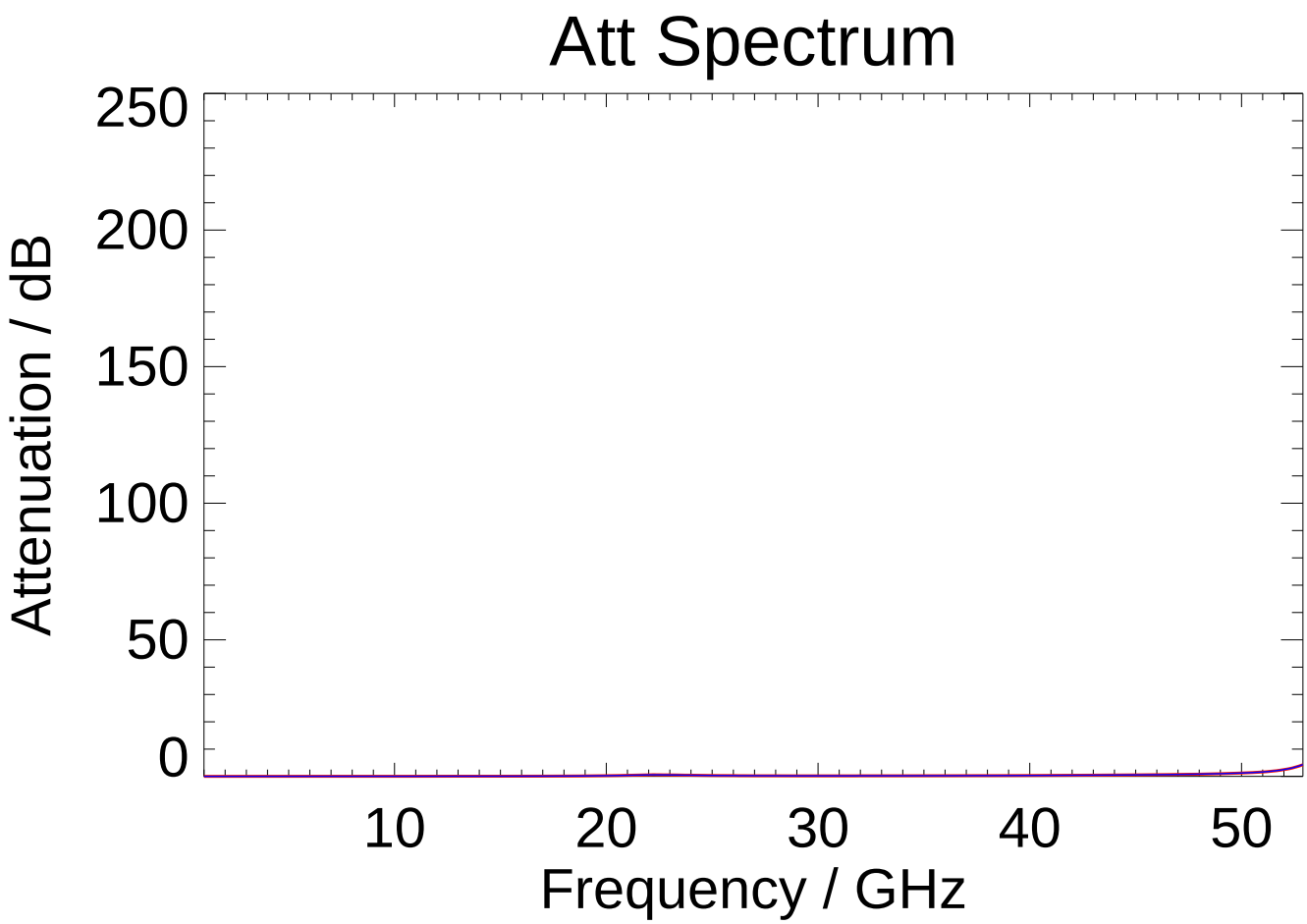

Close-up of Att Spectrum
Attenuation / dB
8
6
4
2
0
10
20
30
40
50
Frequency / GHz

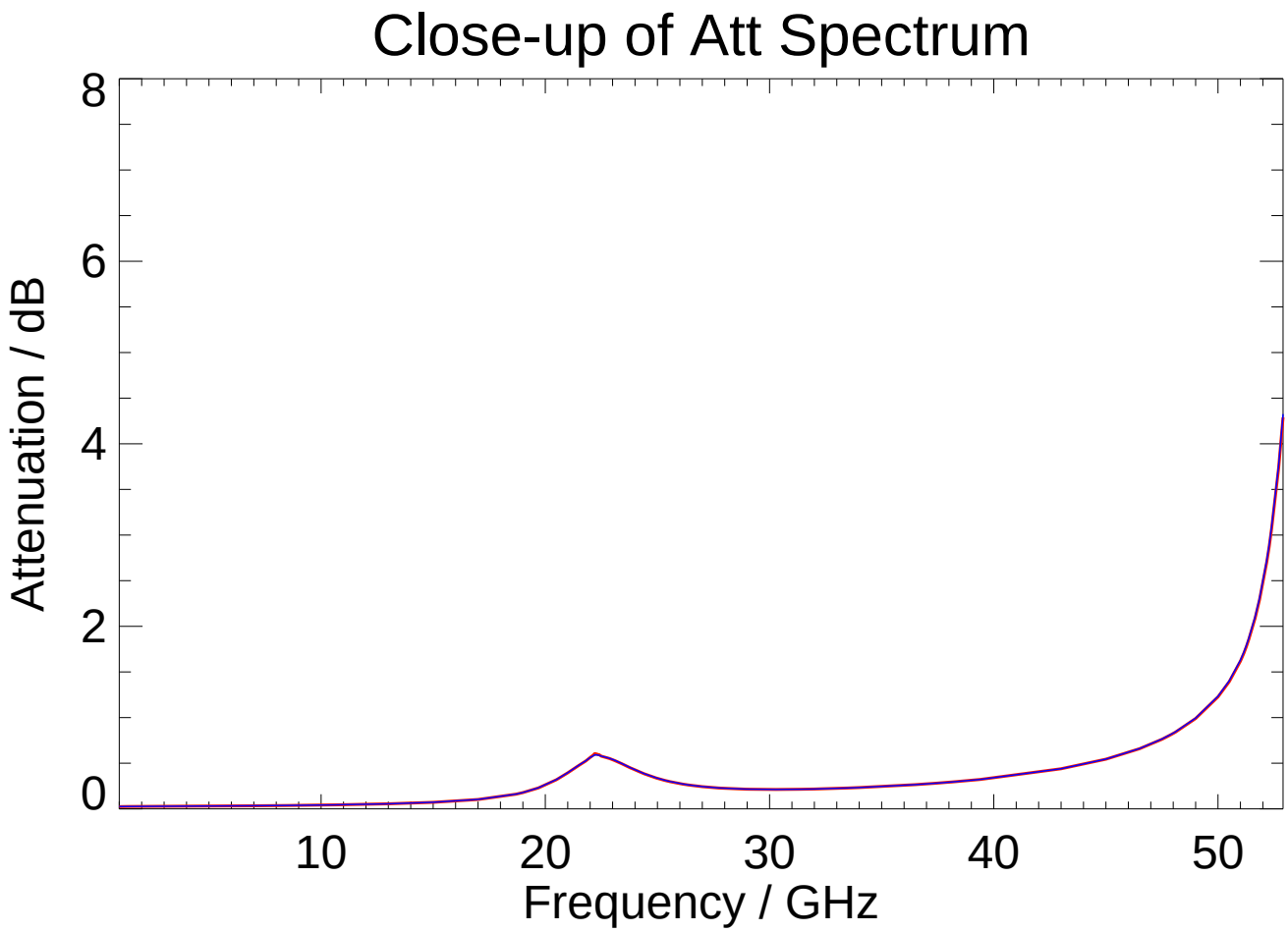

Att Spectrum
Attenuation / dB
250
200
150
100
50
0
10
20
30
40
50
Frequency / GHz

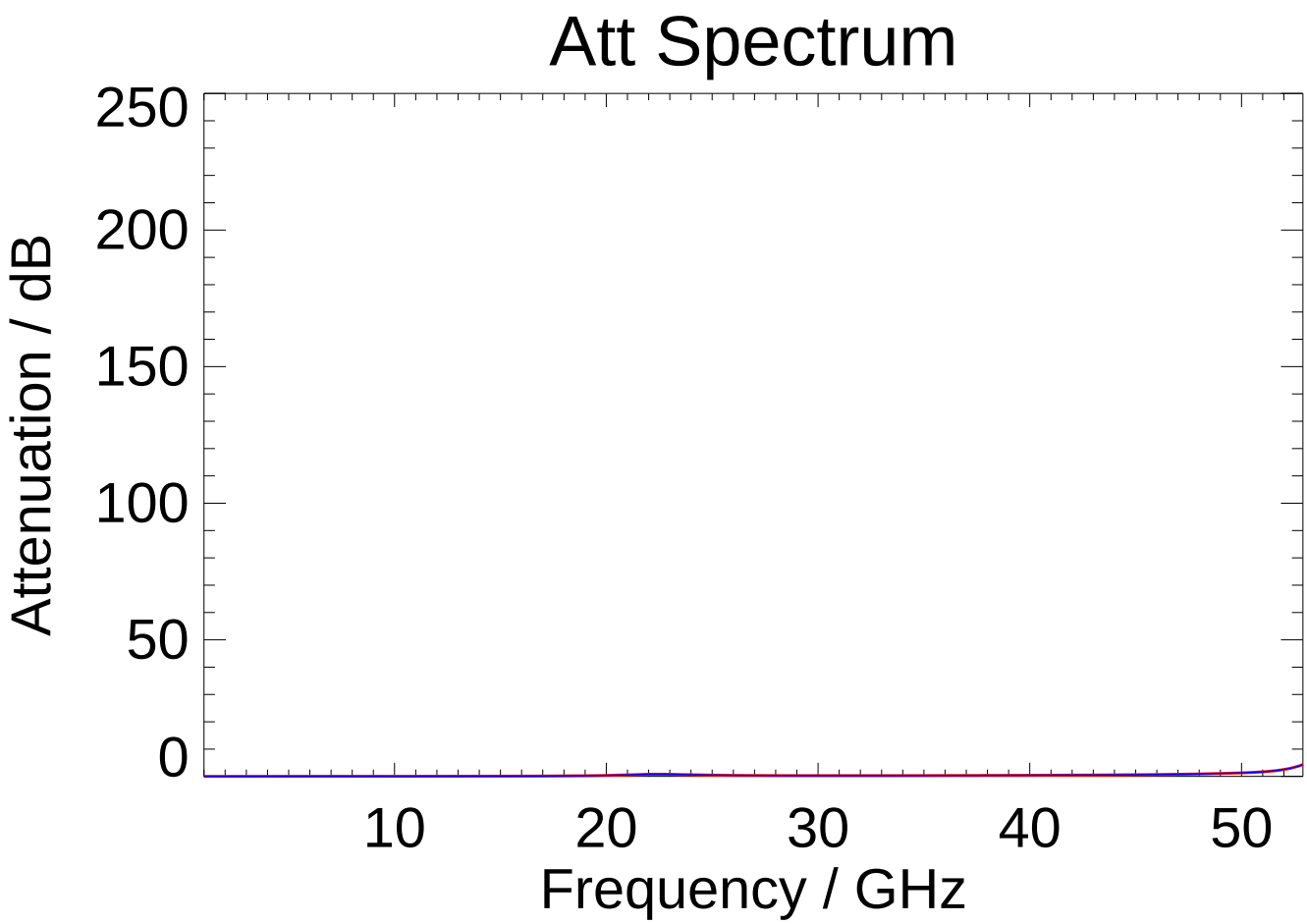

Close-up of Att Spectrum
Attenuation / dB
8
6
4
2
0
10
20
30
40
50
Frequency / GHz

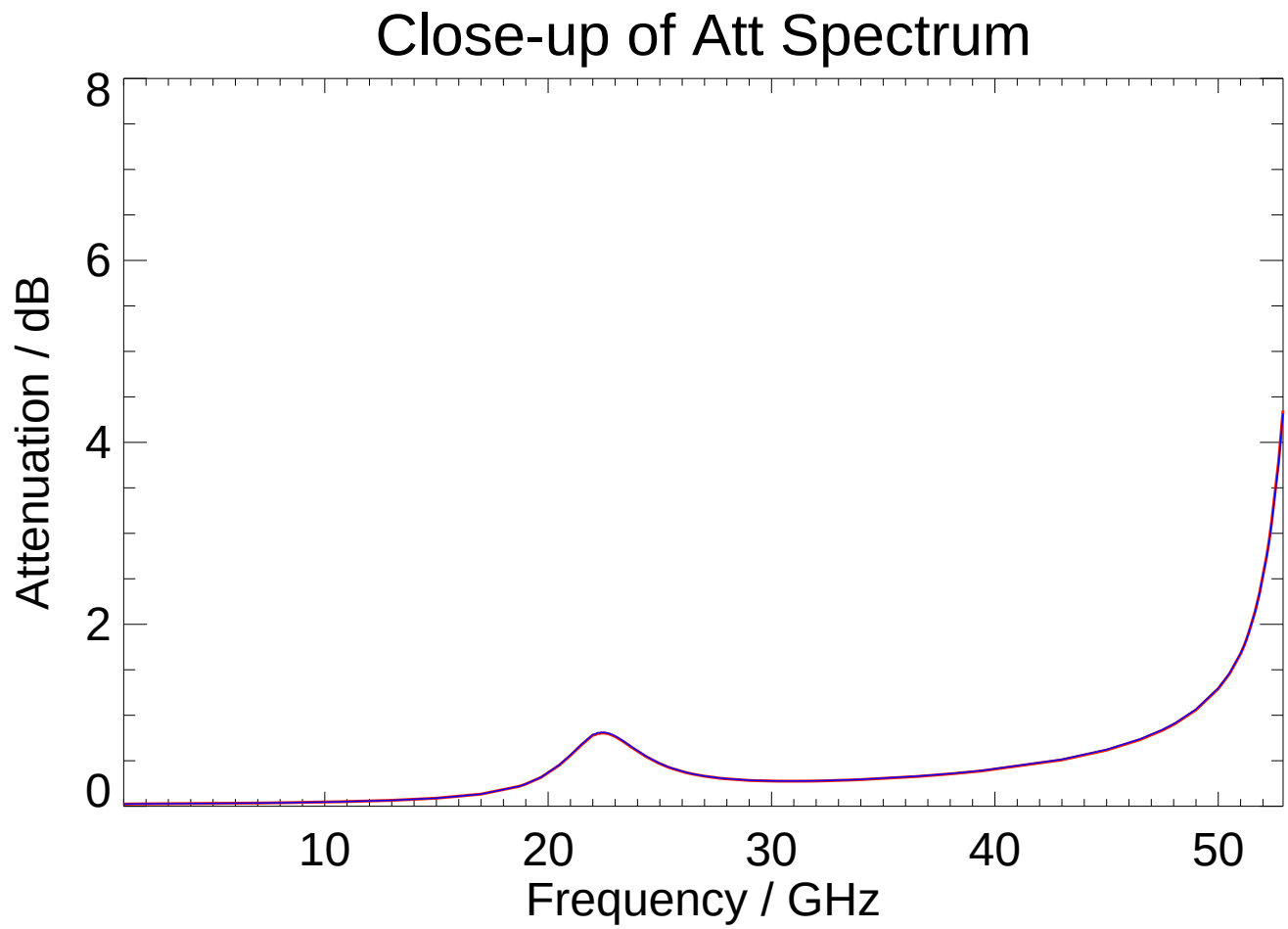

Att Spectrum
Attenuation / dB
250
200
150
100
50
0
10
20
30
40
50
Frequency / GHz

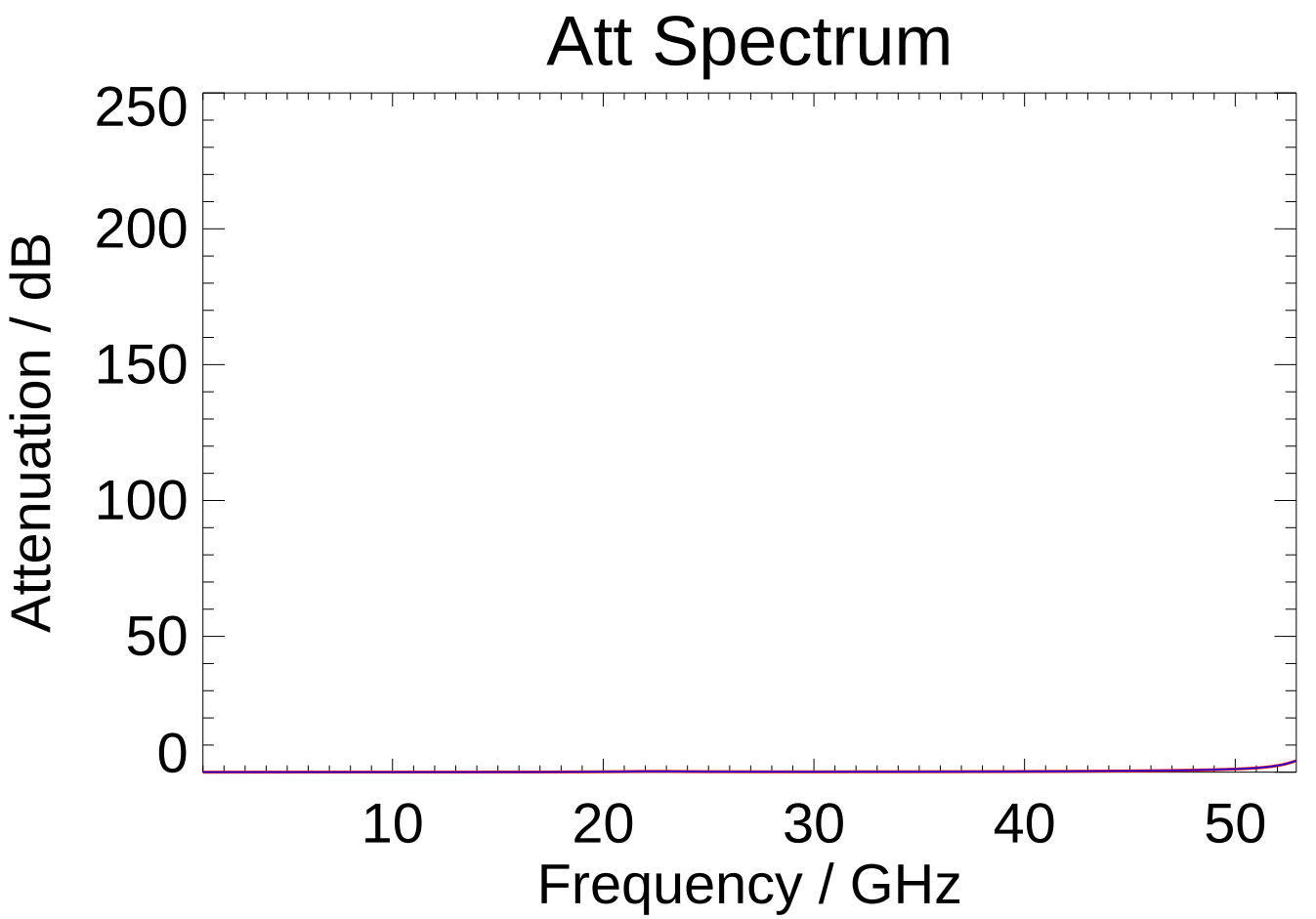

Close-up of Att Spectrum
Attenuation / dB
8
6
4
2
0
10
20
30
40
50
Frequency / GHz

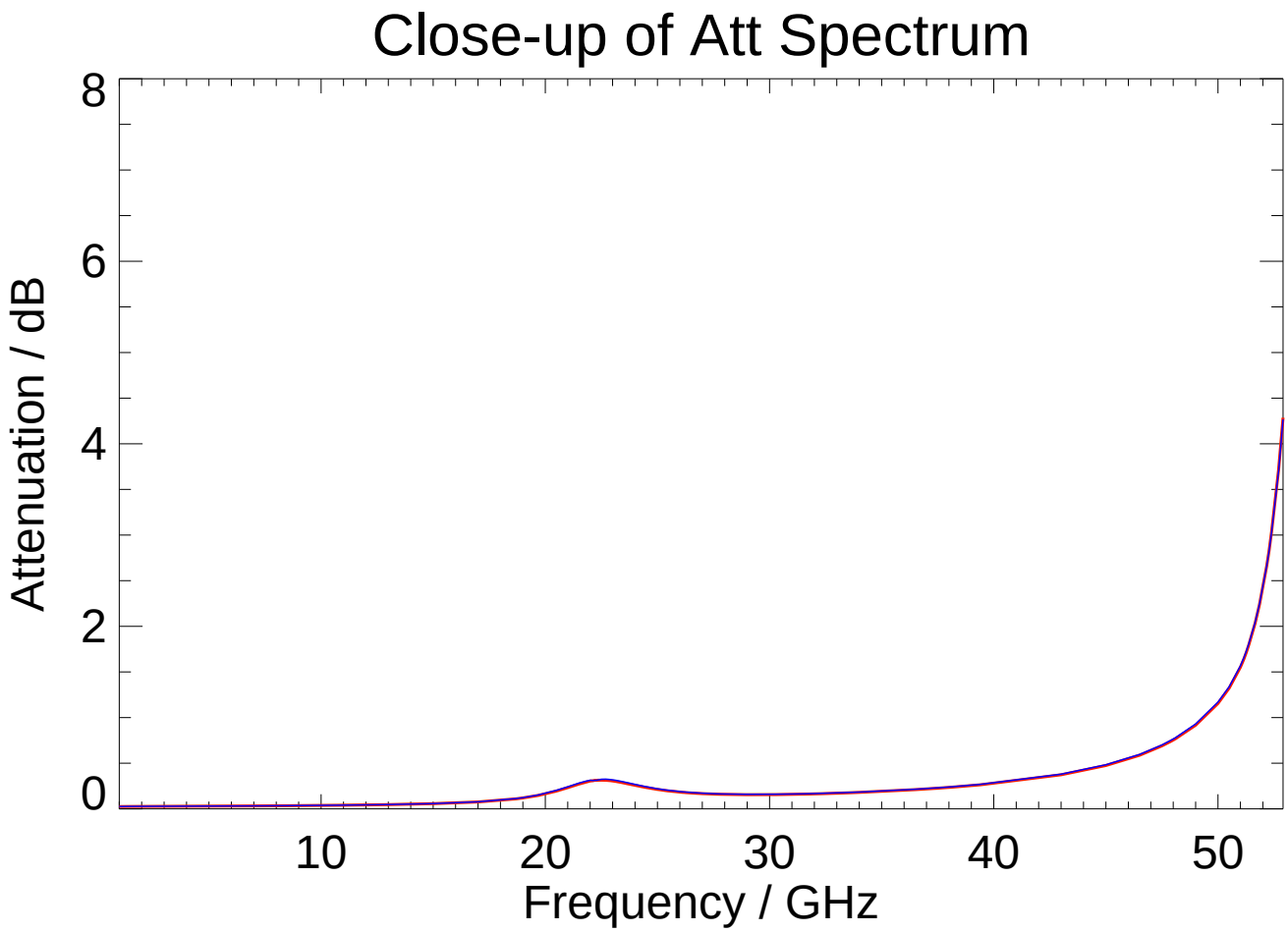

Att Spectrum
Attenuation / dB
250
200
150
100
50
0
10
20
30
40
50
Frequency / GHz

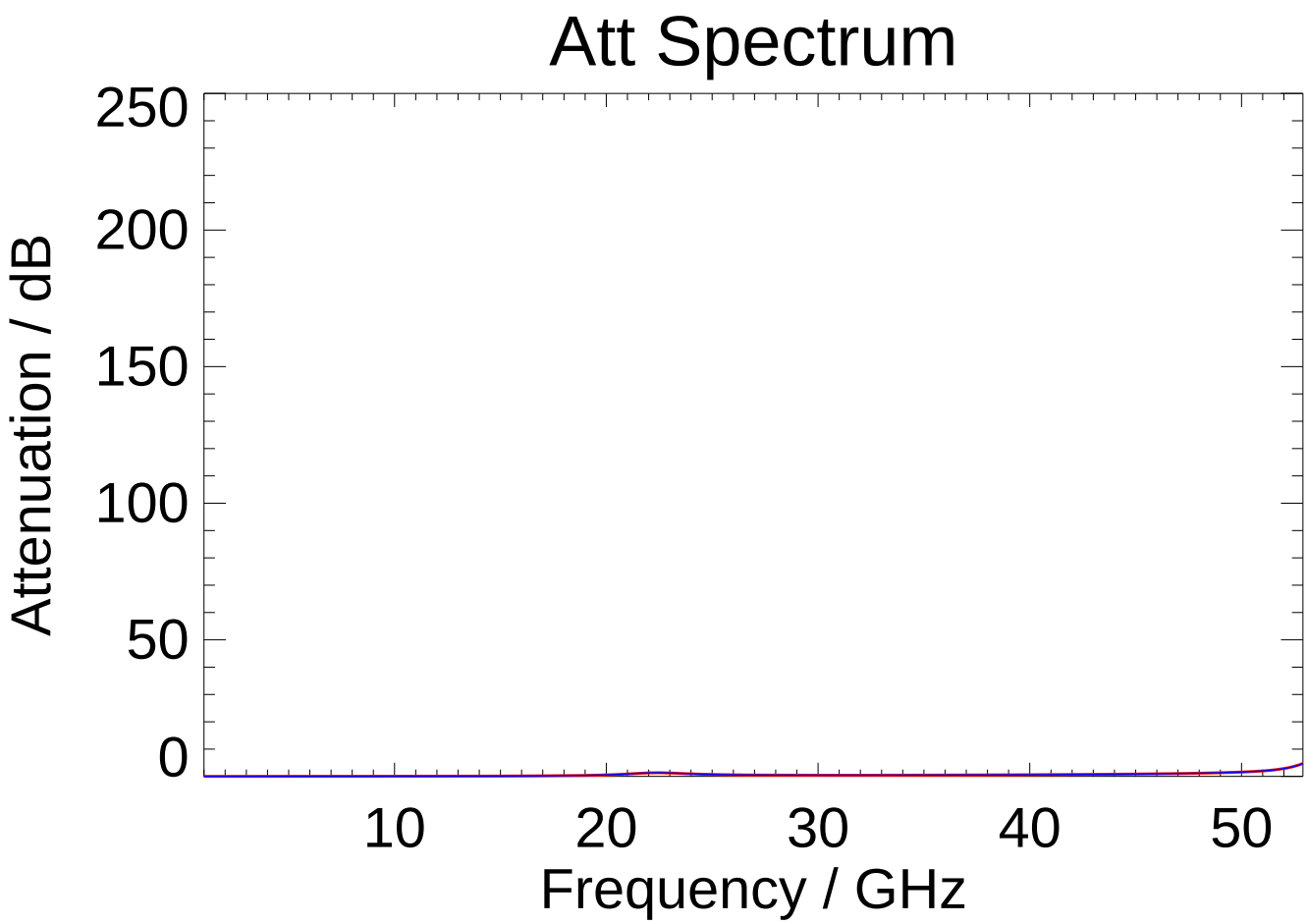

Close-up of Att Spectrum
Attenuation / dB
8
6
4
2
0
10
20
30
40
50
Frequency / GHz

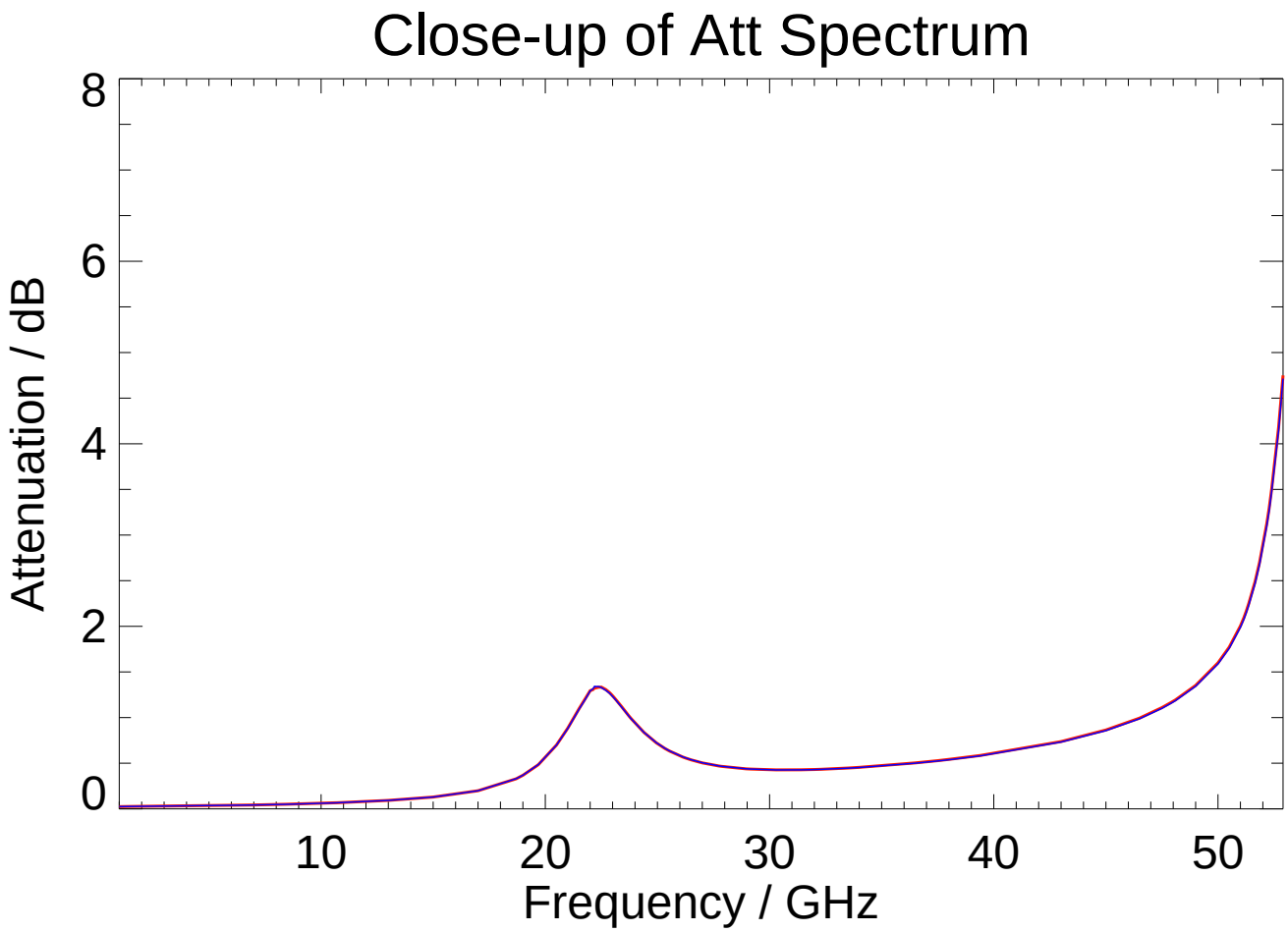

Att Spectrum
Attenuation / dB
250
200
150
100
50
0
10
20
30
40
50
Frequency / GHz

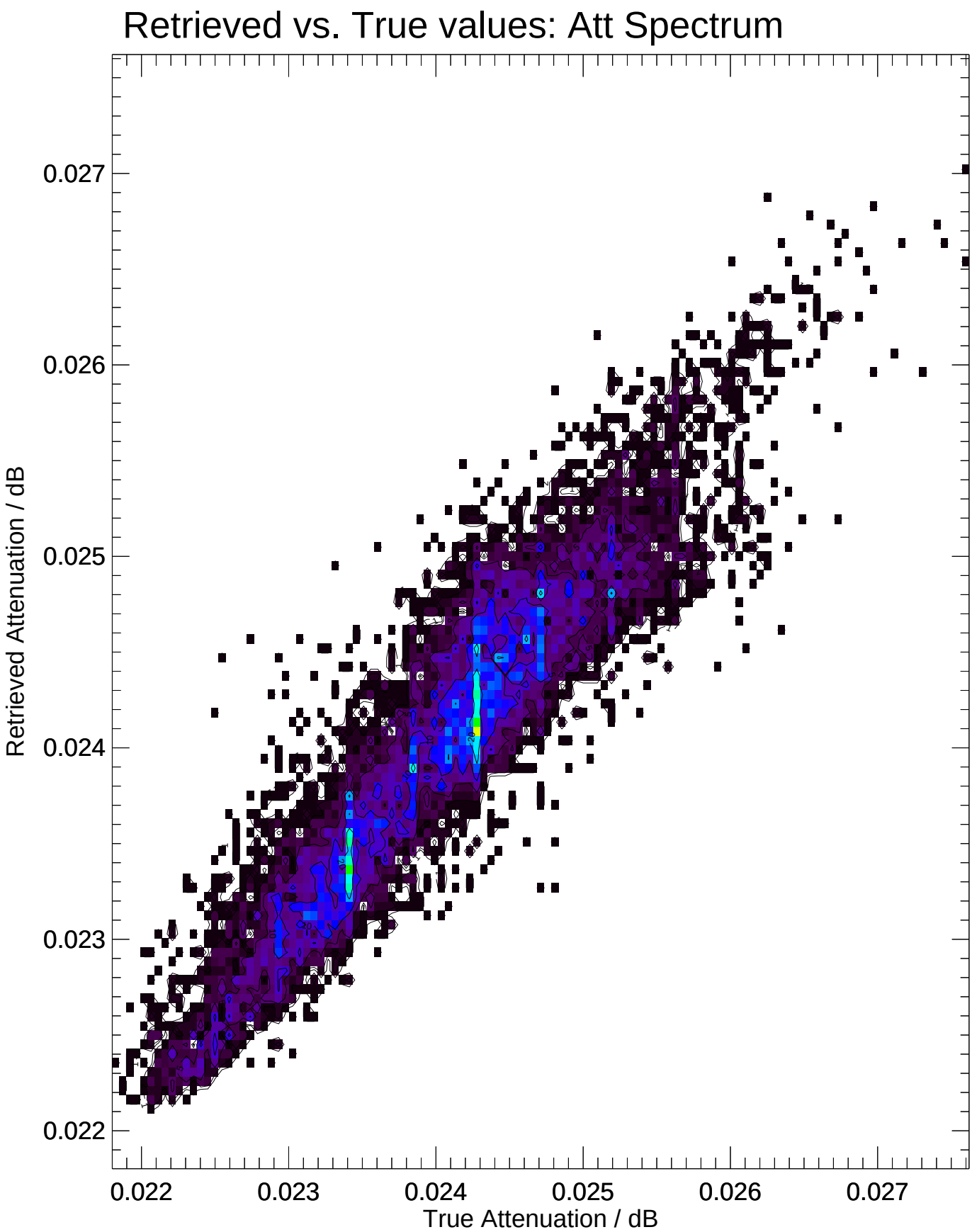

Close-up of Att Spectrum
Attenuation / dB
8
6
4
2
0
10
20
30
40
50
Frequency / GHz

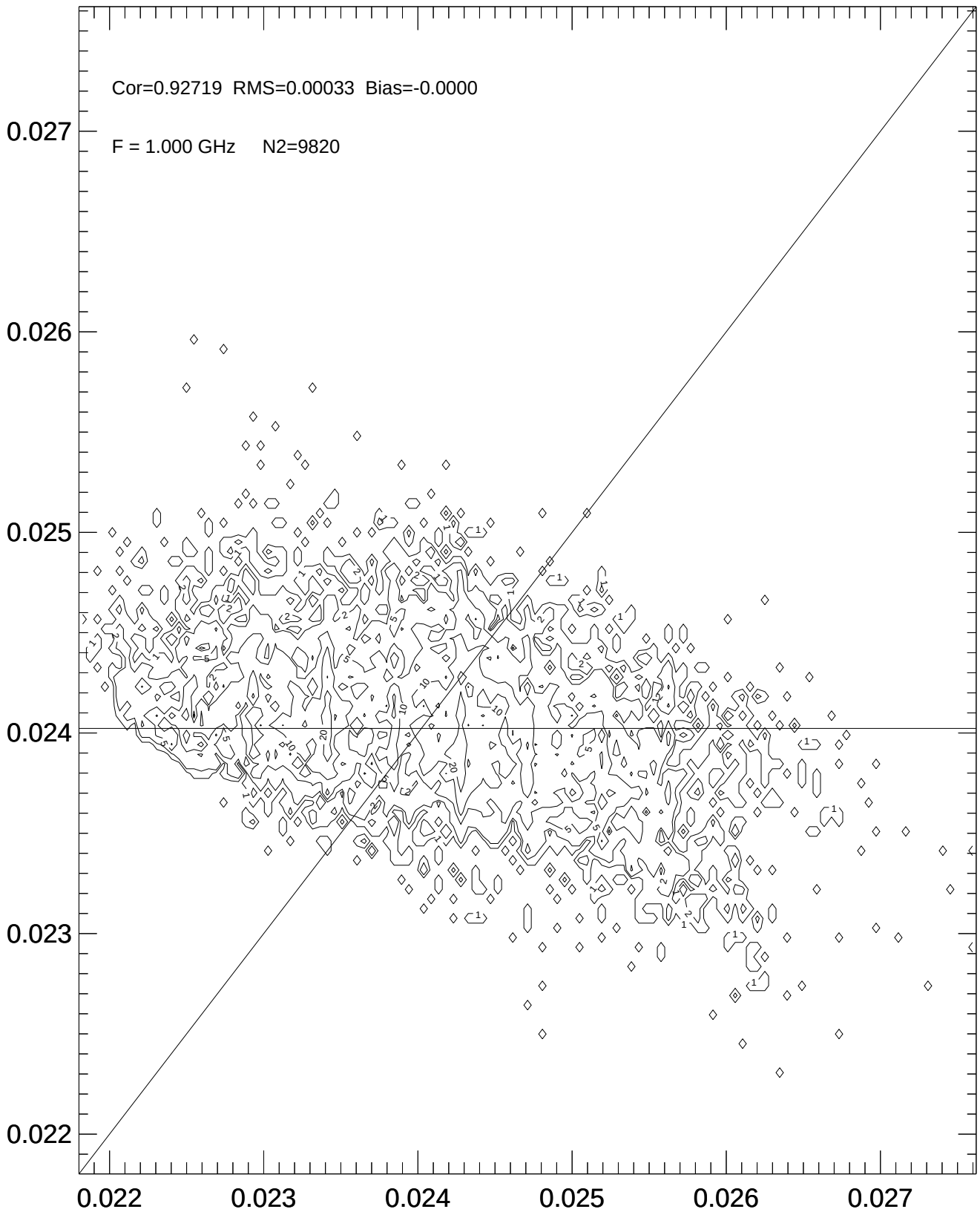

Att Spectrum
Attenuation / dB
250
200
150
100
50
0
10
20
30
40
50
Frequency / GHz

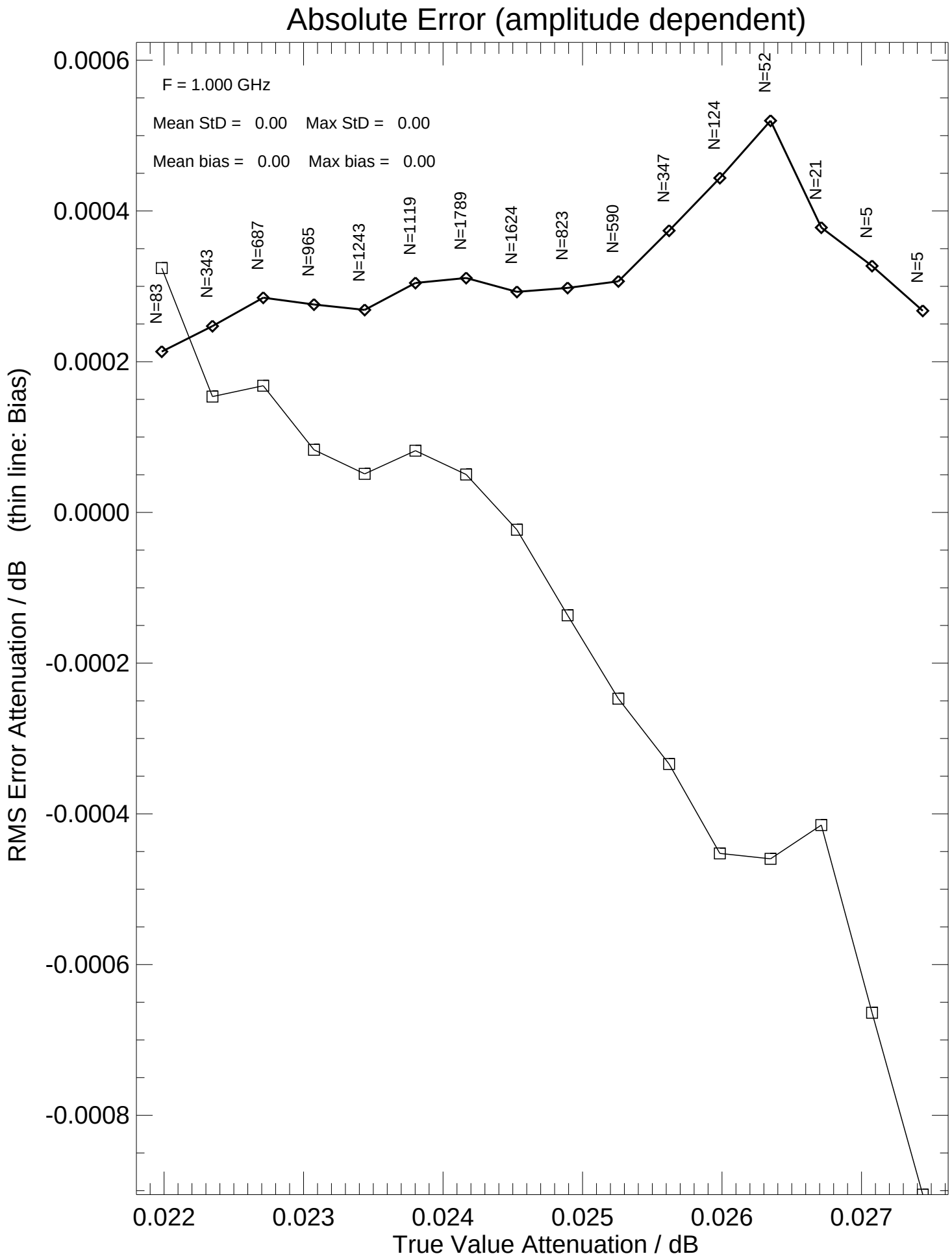

Close-up of Att Spectrum
Attenuation / dB
8
6
4
2
0
10
20
30
40
50
Frequency / GHz

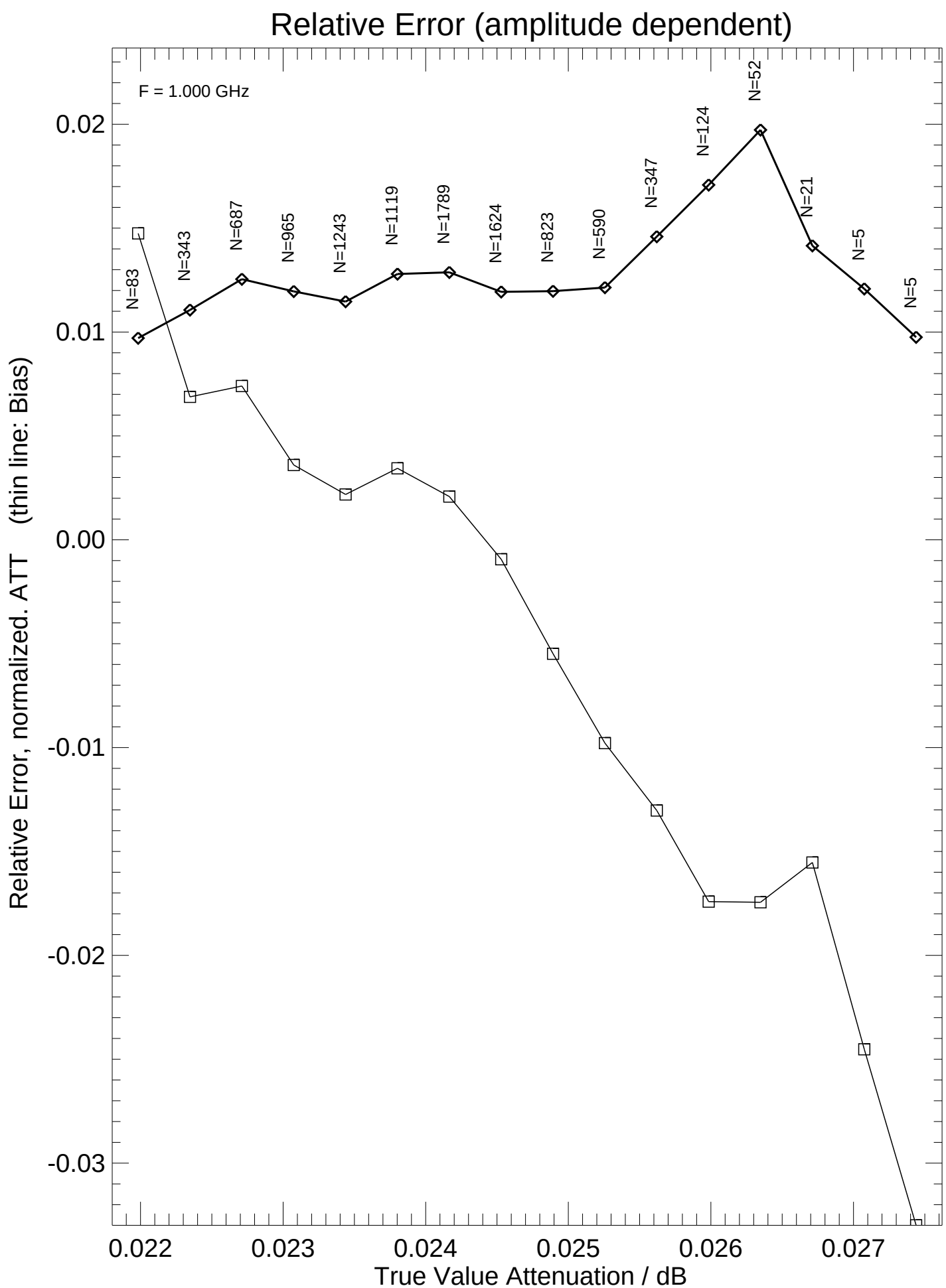

Att Spectrum
Attenuation / dB
250
200
150
100
50
0
10
20
30
40
50
Frequency / GHz

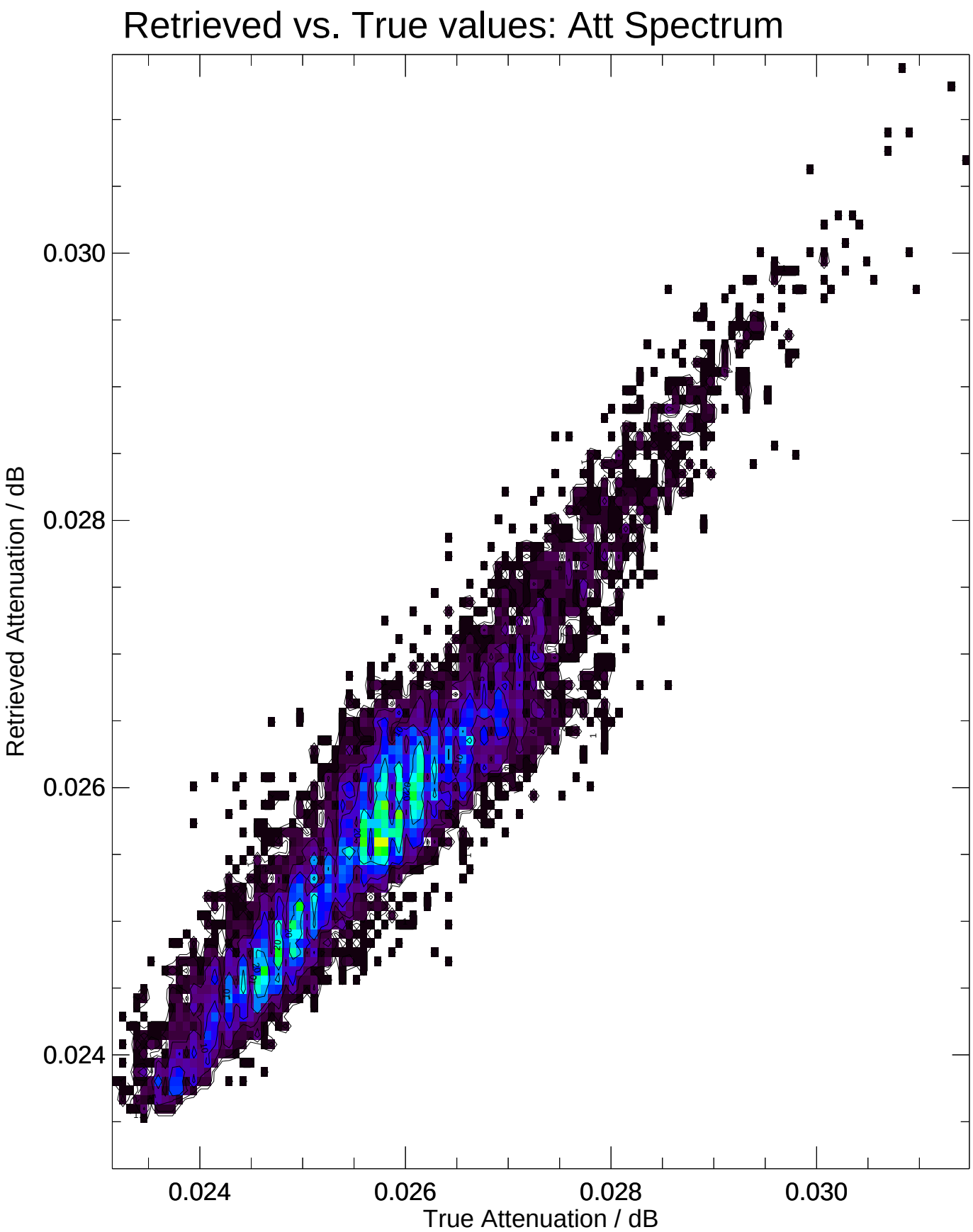

Close-up of Att Spectrum
Attenuation / dB
8
6
4
2
0
10
20
30
40
50
Frequency / GHz

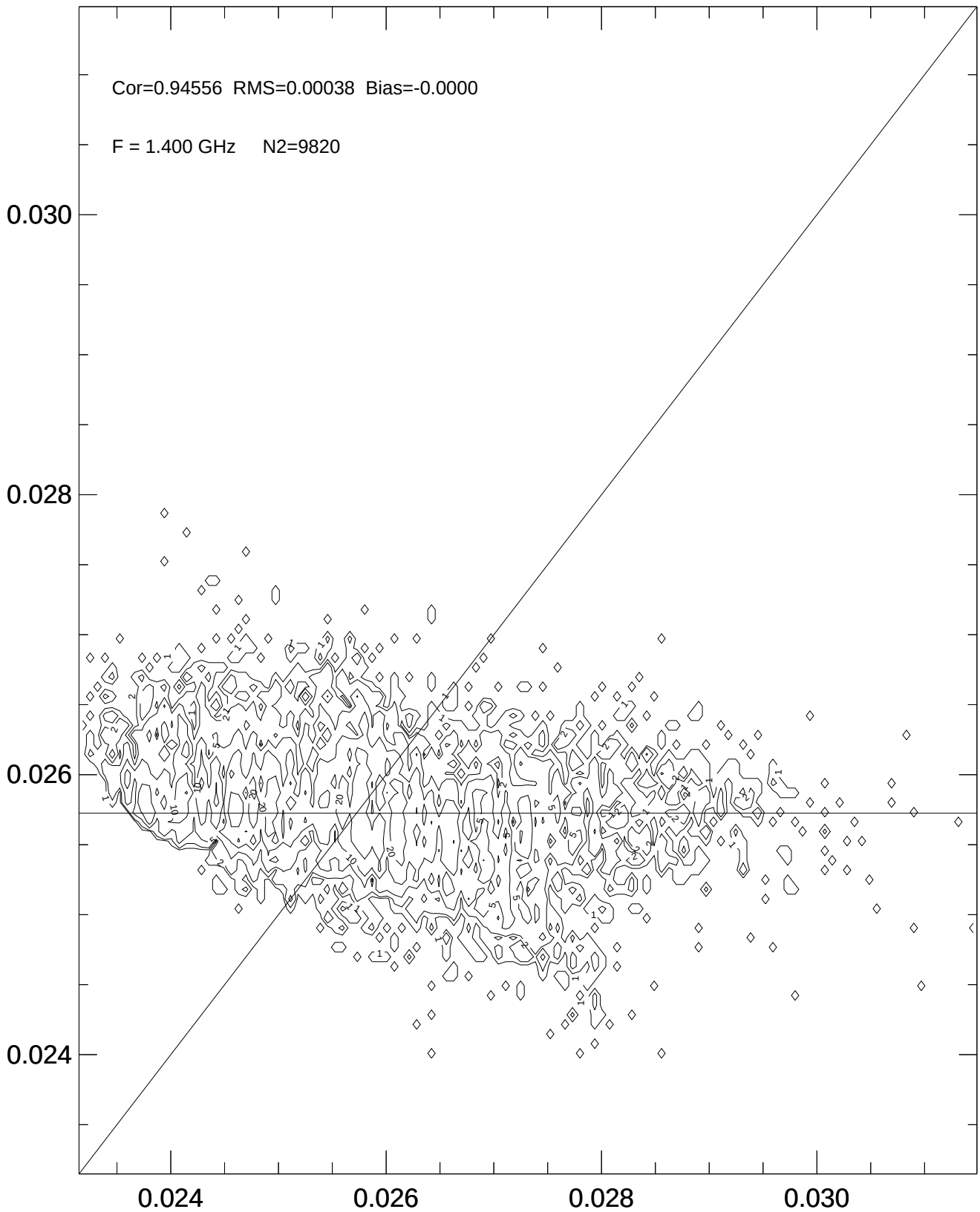

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
0.027
0.026
0.025
0.024
0.023
0.022
0.022
0.023
0.024
0.025
0.026
0.027
True Attenuation / dB

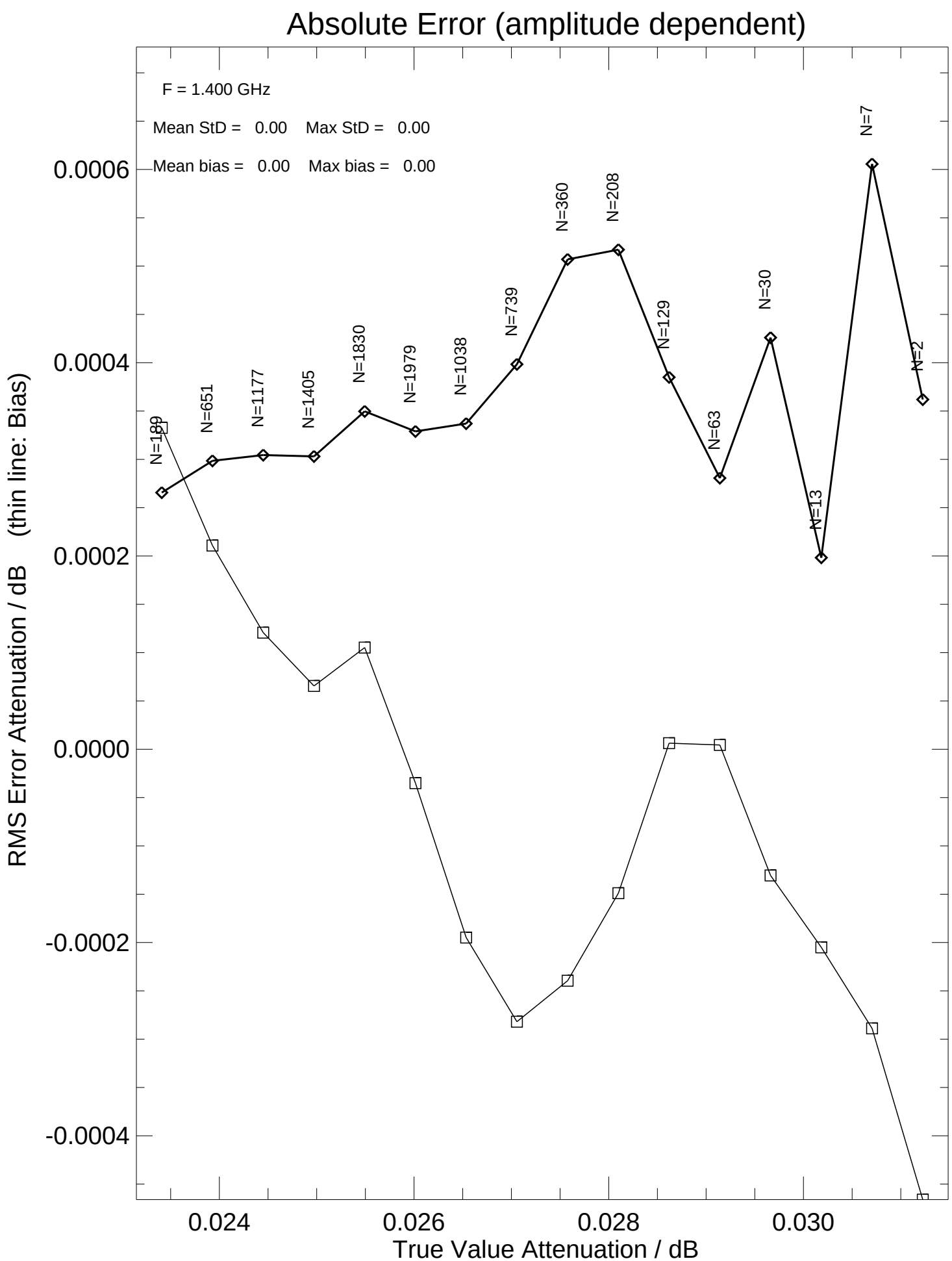

Cor=0.92719 RMS=0.00033 Bias=-0.0000
F = 1.000 GHz N2=9820
0.027
0.026
0.025
0.024
0.023
0.022
0.022
0.023
0.024
0.025
0.026
0.027

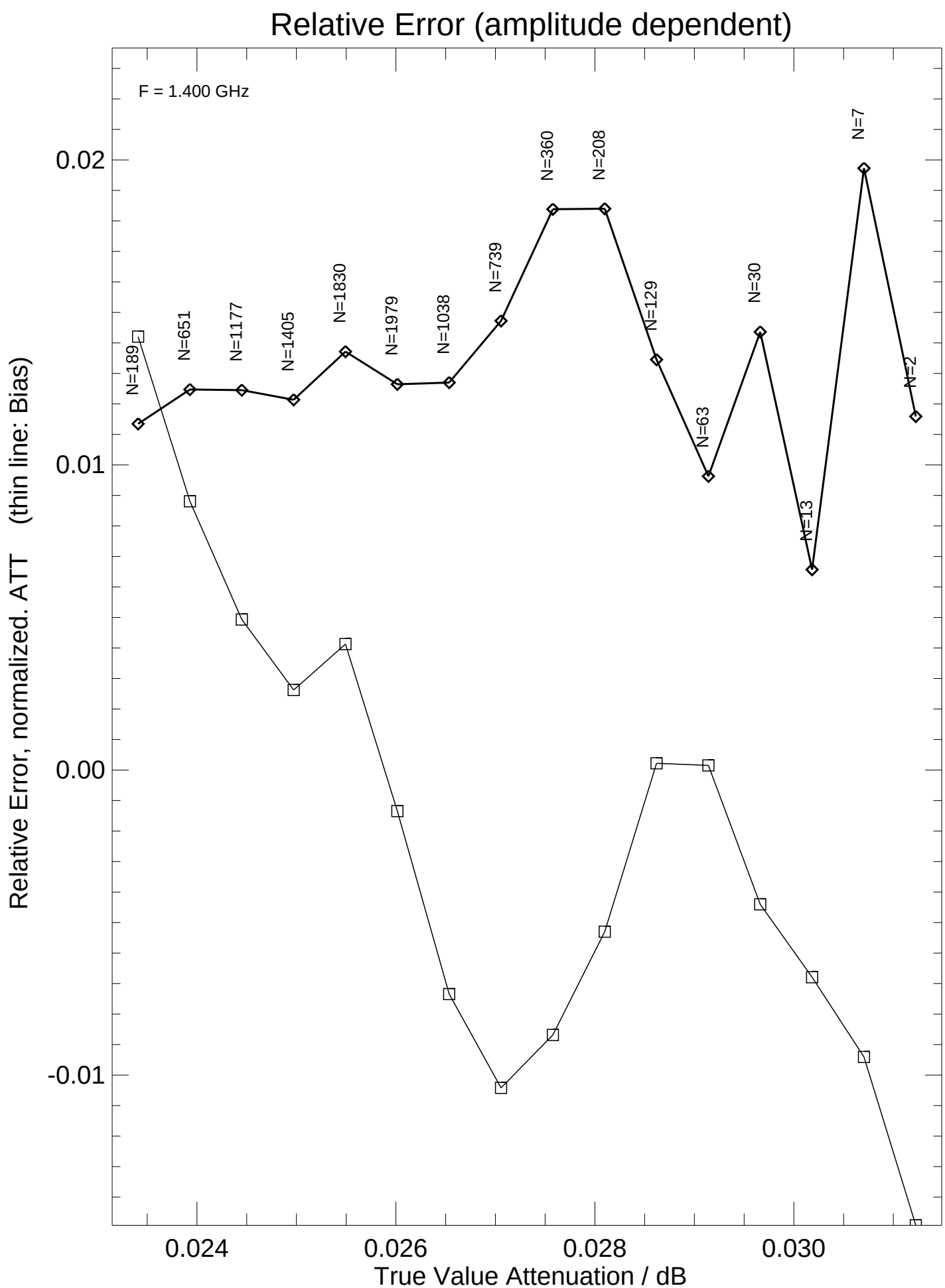

Absolute Error (amplitude dependent)
F = 1.000 GHz
Mean StD = 0.00 Max StD = 0.00
Mean bias = 0.00 Max bias = 0.00
N=83
N=343
N=687
N=965
N=1243
N=1119
N=1789
N=1624
N=823
N=590
N=347
N=124
N=52
N=21
N=5
N=5
0.0006
0.0004
0.0002
0.0000
-0.0002
-0.0004
-0.0006
-0.0008
RMS Error Attenuation / dB (thin line: Bias)
0.022
0.023
0.024
0.025
0.026
0.027
True Value Attenuation / dB

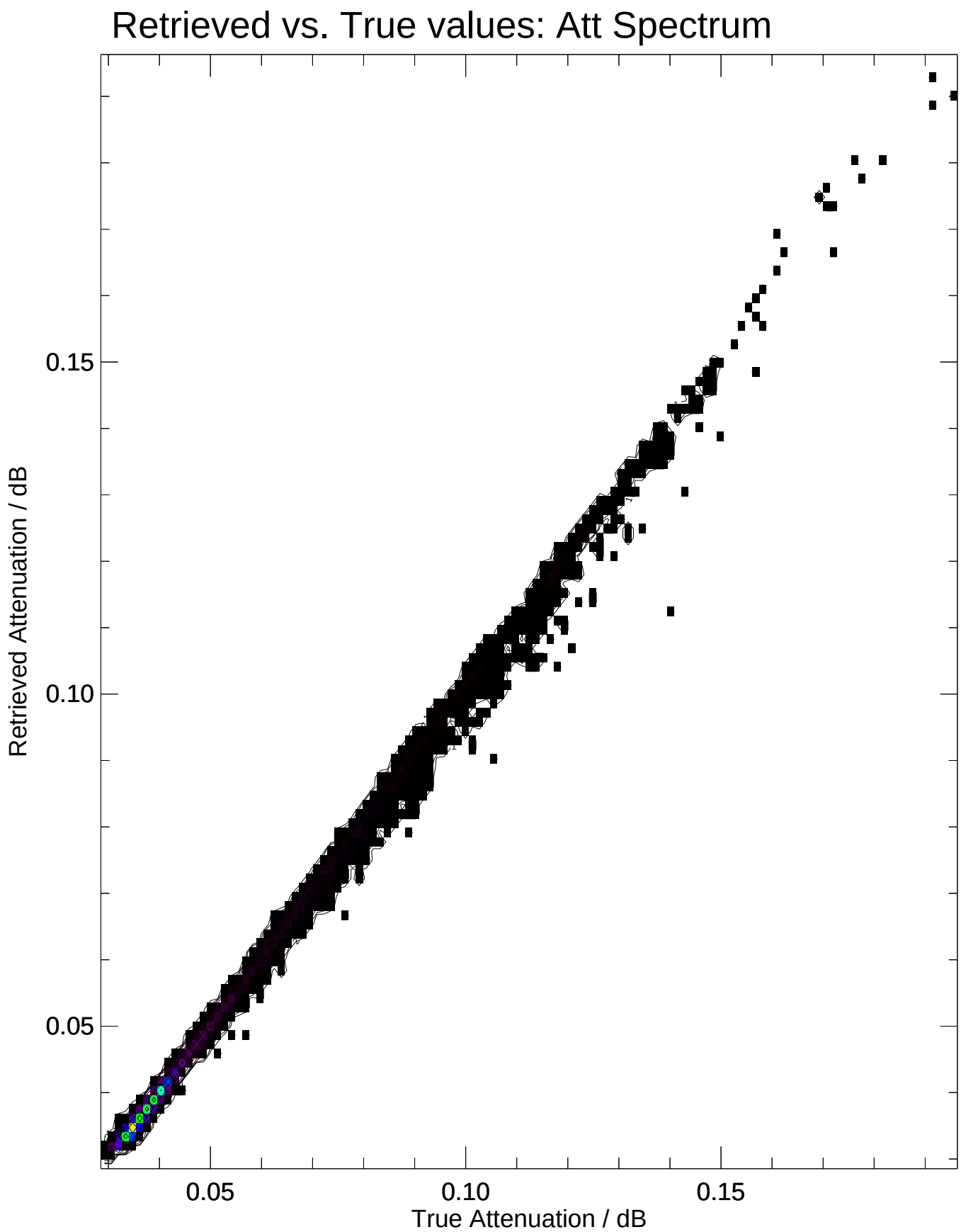

Relative Error (amplitude dependent)
F = 1.000 GHz
N=83
N=343
N=687
N=965
N=1243
N=1119
N=1789
N=1624
N=823
N=590
N=347
N=124
N=52
N=21
N=5
N=5
0.02
0.01
0.00
-0.01
-0.02
-0.03
Relative Error, normalized. ATT (thin line: Bias)
0.022
0.023
0.024
0.025
0.026
0.027
True Value Attenuation / dB

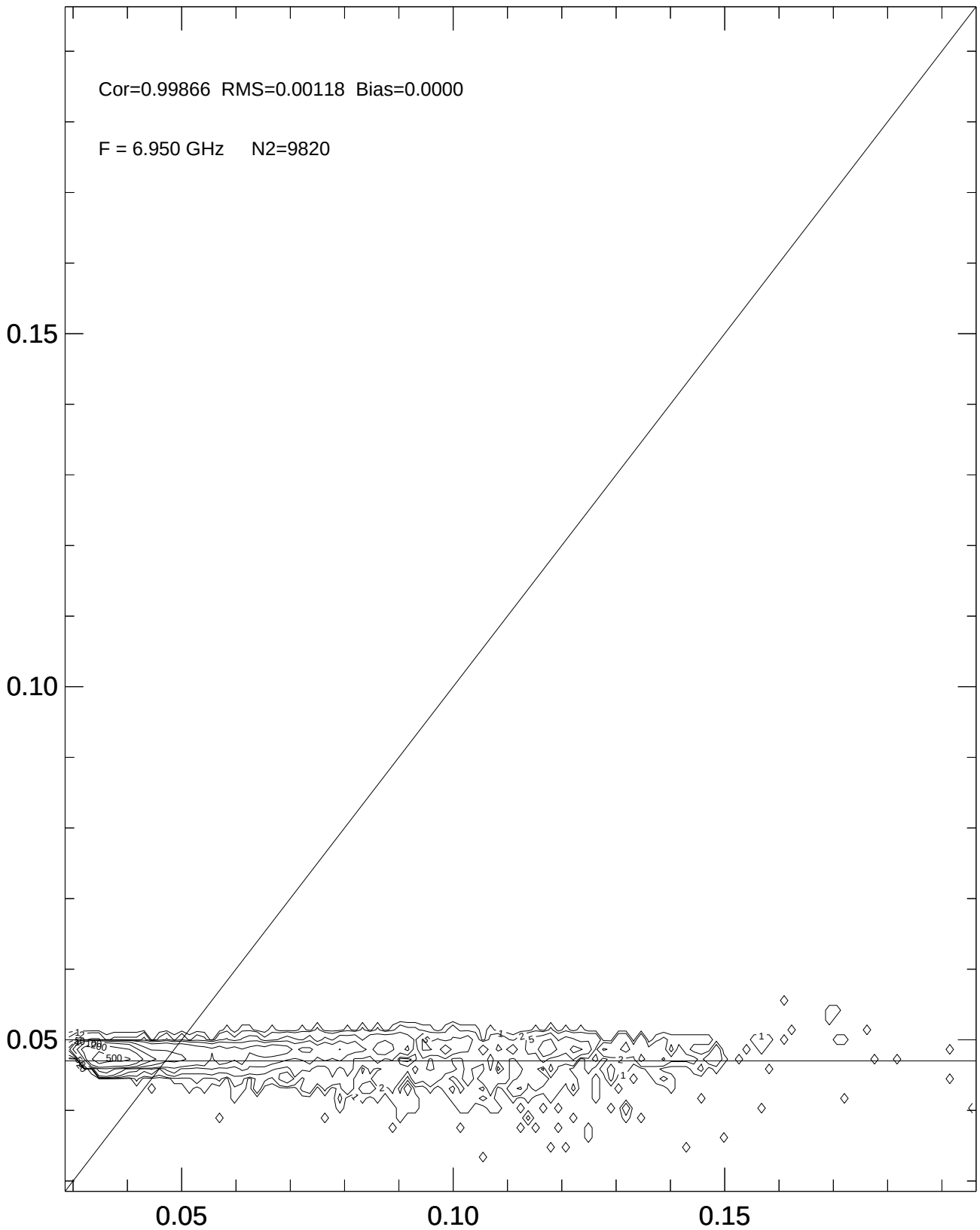

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
0.030
0.028
0.026
0.024
0.024
0.026
0.028
0.030
True Attenuation / dB

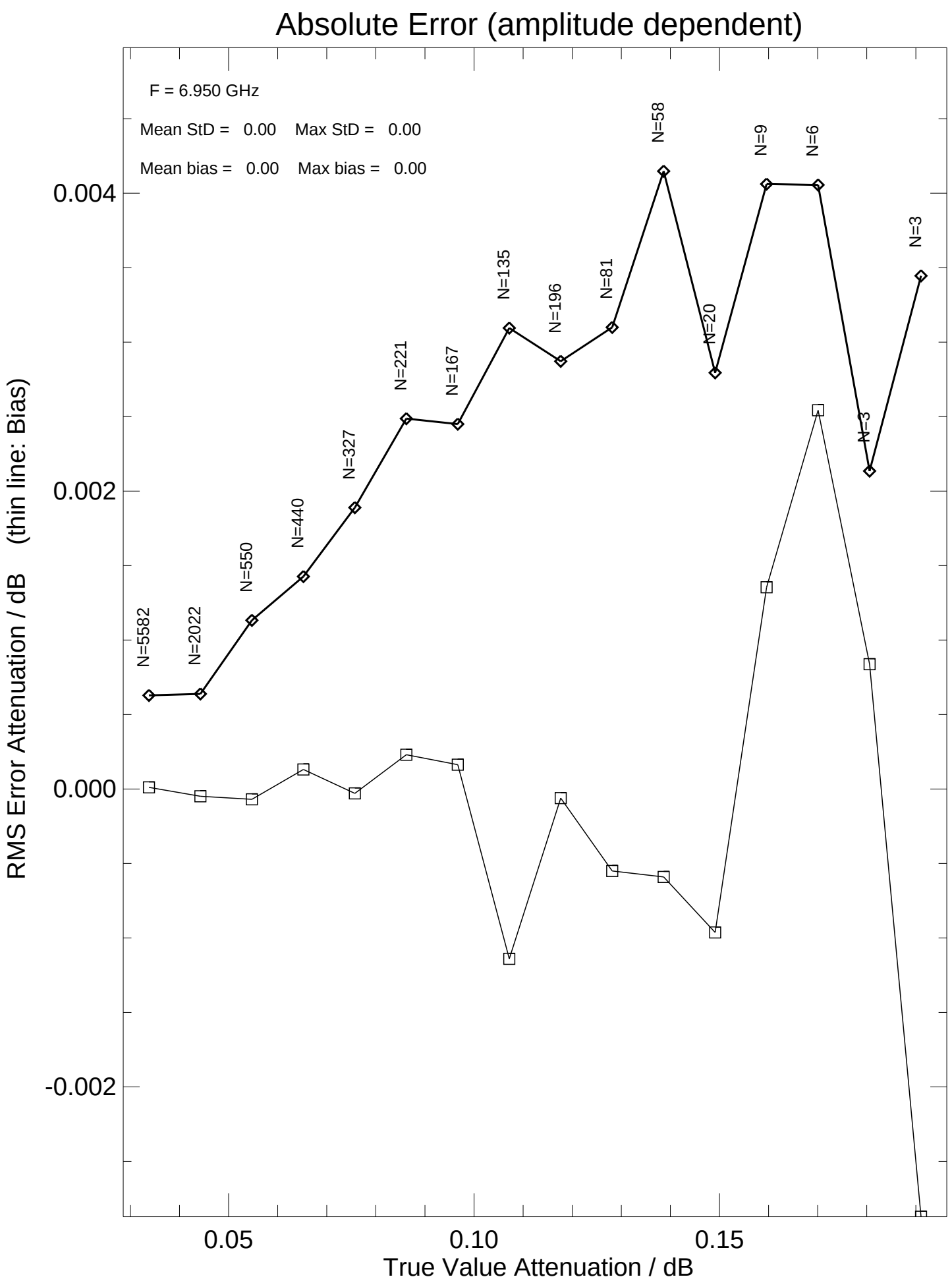

Cor=0.94556 RMS=0.00038 Bias=-0.0000
F = 1.400 GHz N2=9820
0.030
0.028
0.026
0.024
0.024
0.026
0.028
0.030

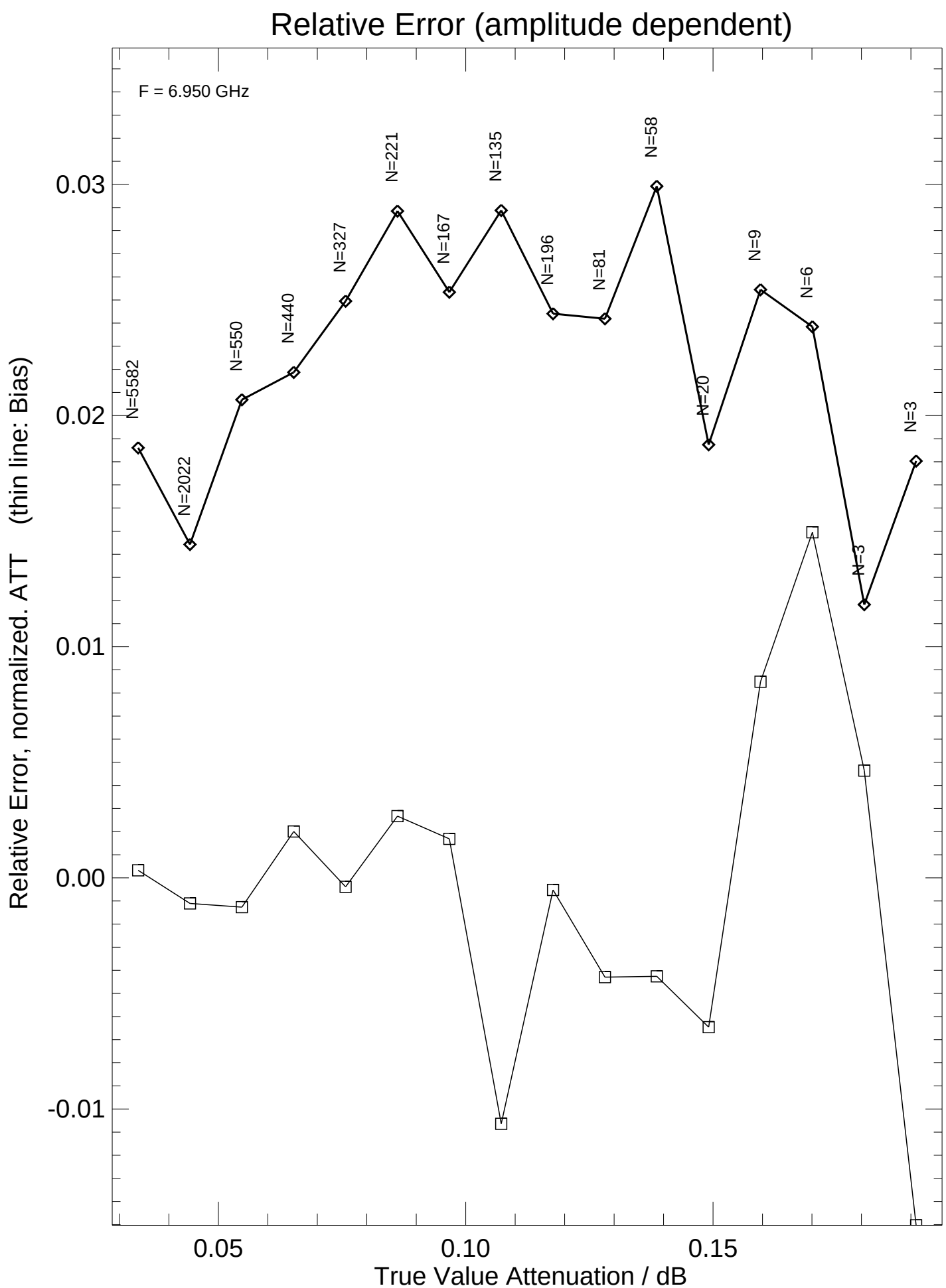

Absolute Error (amplitude dependent)
F = 1.400 GHz
Mean StD = 0.00 Max StD = 0.00
Mean bias = 0.00 Max bias = 0.00
N=189
N=651
N=1177
N=1405
N=1830
N=1979
N=1038
N=739
N=360
N=208
N=129
N=63
N=30
N=13
N=7
N=2
0.0006
0.0004
0.0002
0.0000
-0.0002
-0.0004
RMS Error Attenuation / dB (thin line: Bias)
0.024
0.026
0.028
0.030
True Value Attenuation / dB

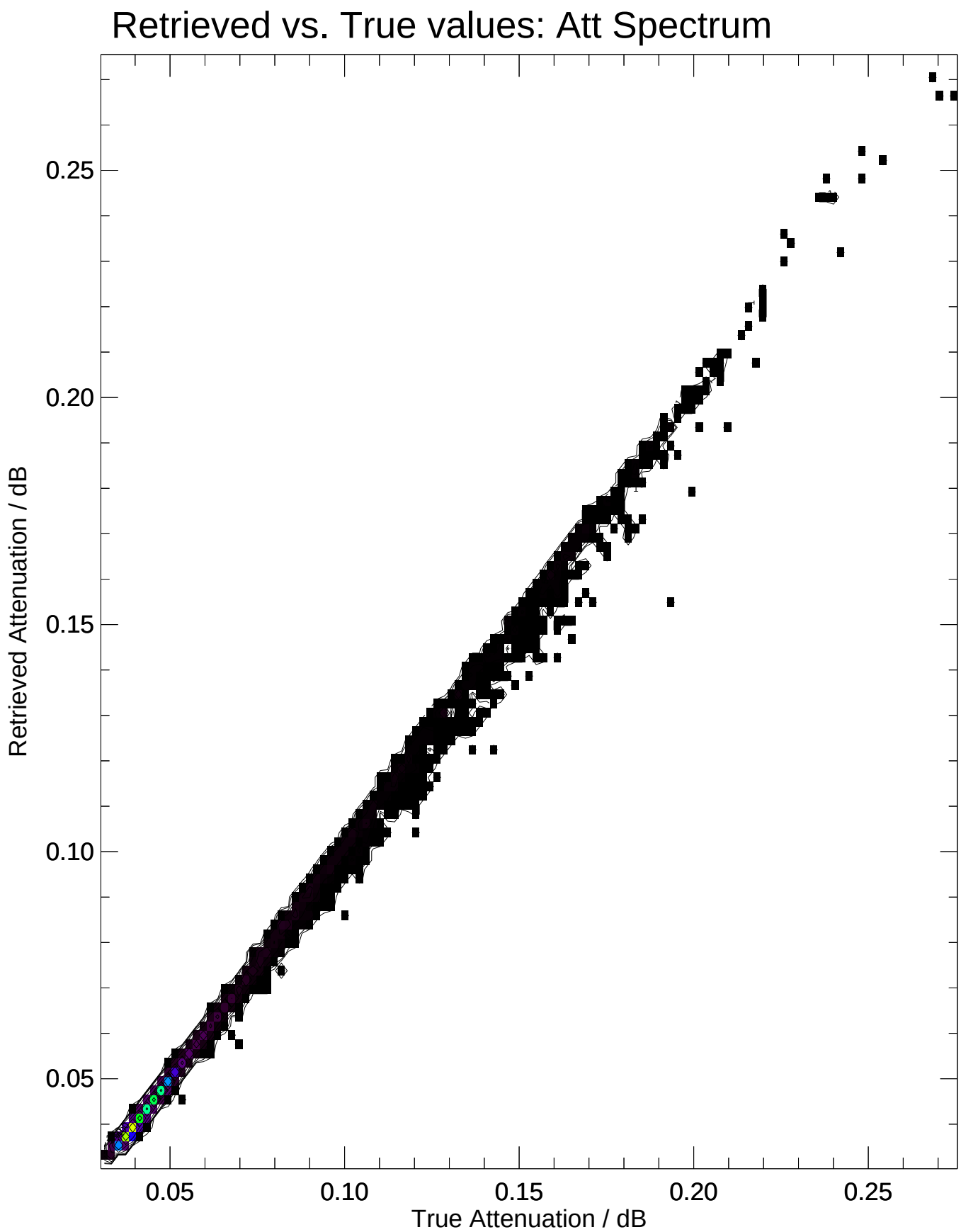

Relative Error (amplitude dependent)
F = 1.400 GHz
N=189
N=651
N=1177
N=1405
N=1830
N=1979
N=1038
N=739
N=360
N=208
N=129
N=63
N=30
N=13
N=7
N=2
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
0.024
0.026
0.028
0.030
True Value Attenuation / dB

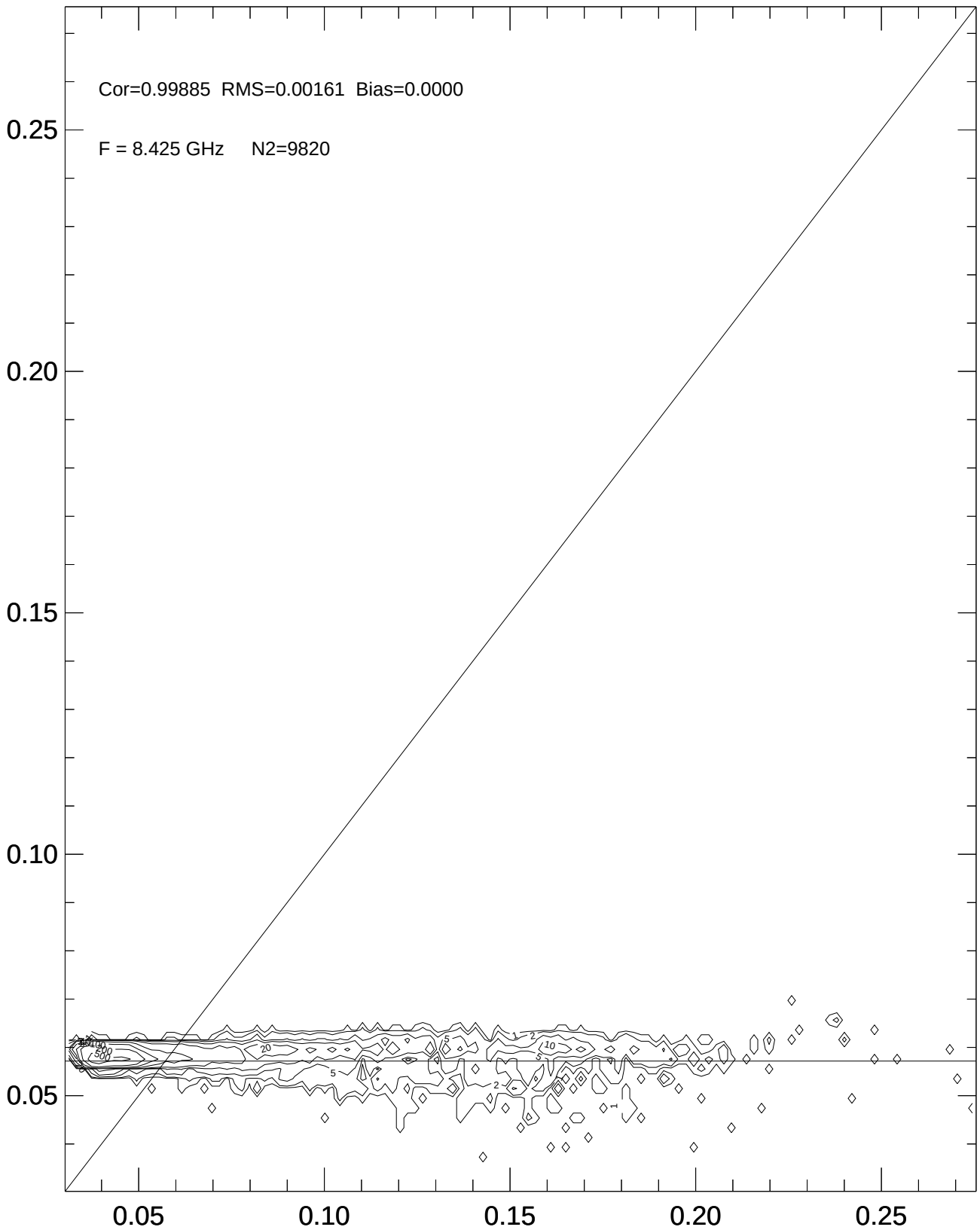

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
0.05
0.10
0.15
0.05
0.10
0.15
True Attenuation / dB

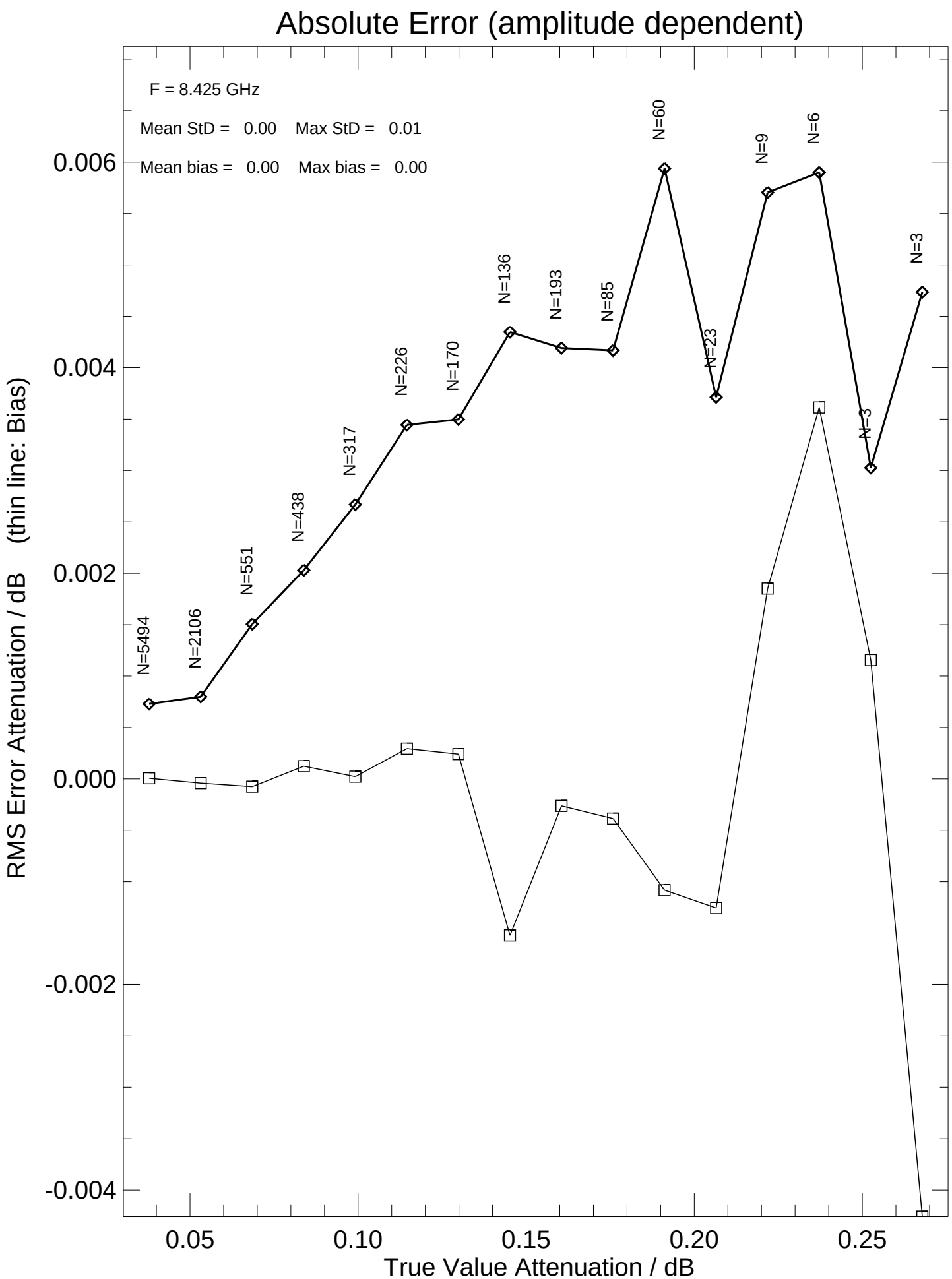

Cor=0.99866 RMS=0.00118 Bias=0.0000
F = 6.950 GHz N2=9820
0.15
0.10
0.05
0.05
0.10
0.15

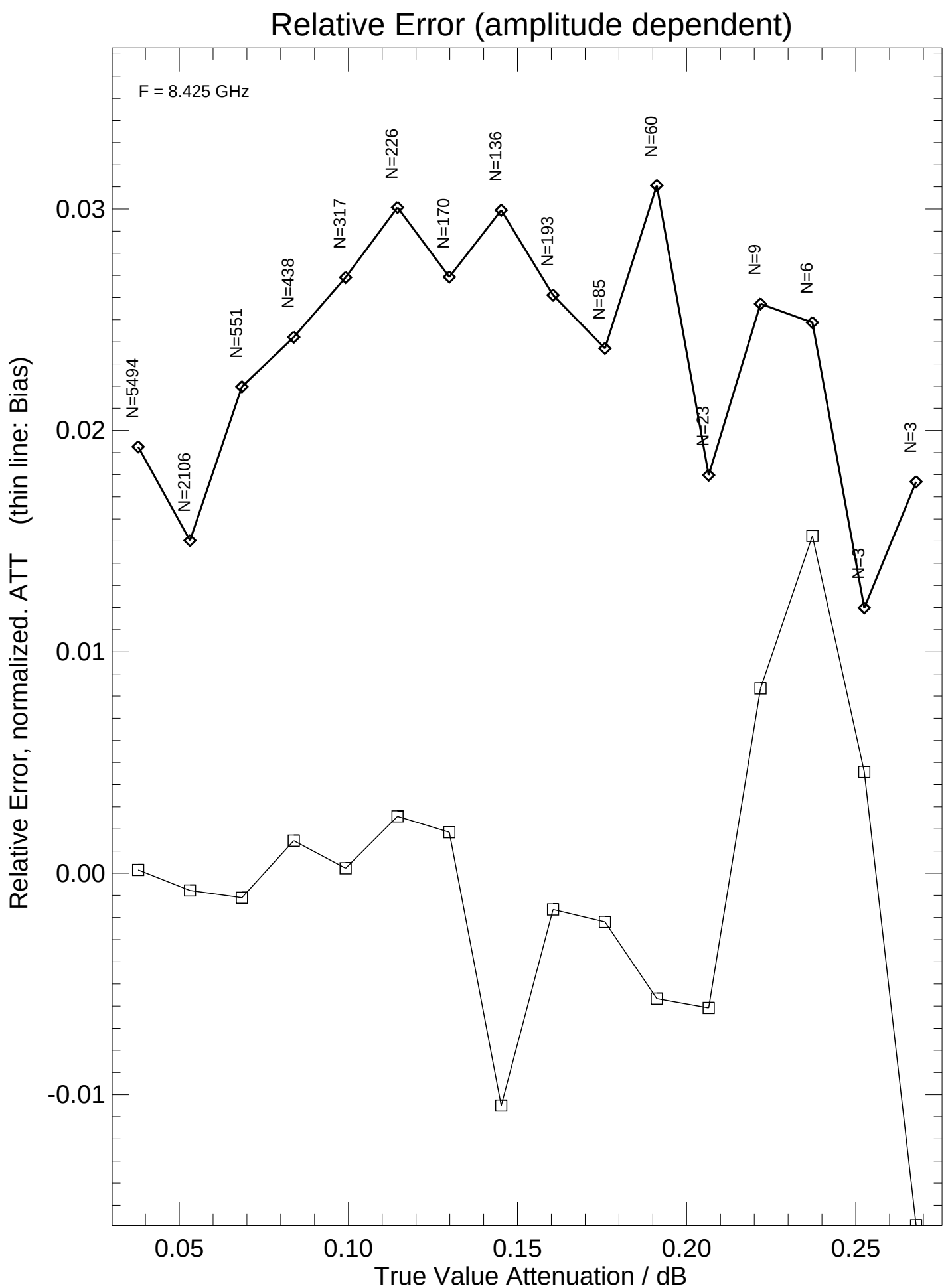

Absolute Error (amplitude dependent)
F = 6.950 GHz
Mean StD = 0.00 Max StD = 0.00
Mean bias = 0.00 Max bias = 0.00
N=5582
N=2022
N=550
N=440
N=327
N=221
N=167
N=135
N=196
N=81
N=58
N=20
N=9
N=6
N=3
N=3
0.004
0.002
0.000
-0.002
RMS Error Attenuation / dB (thin line: Bias)
0.05
0.10
0.15
True Value Attenuation / dB

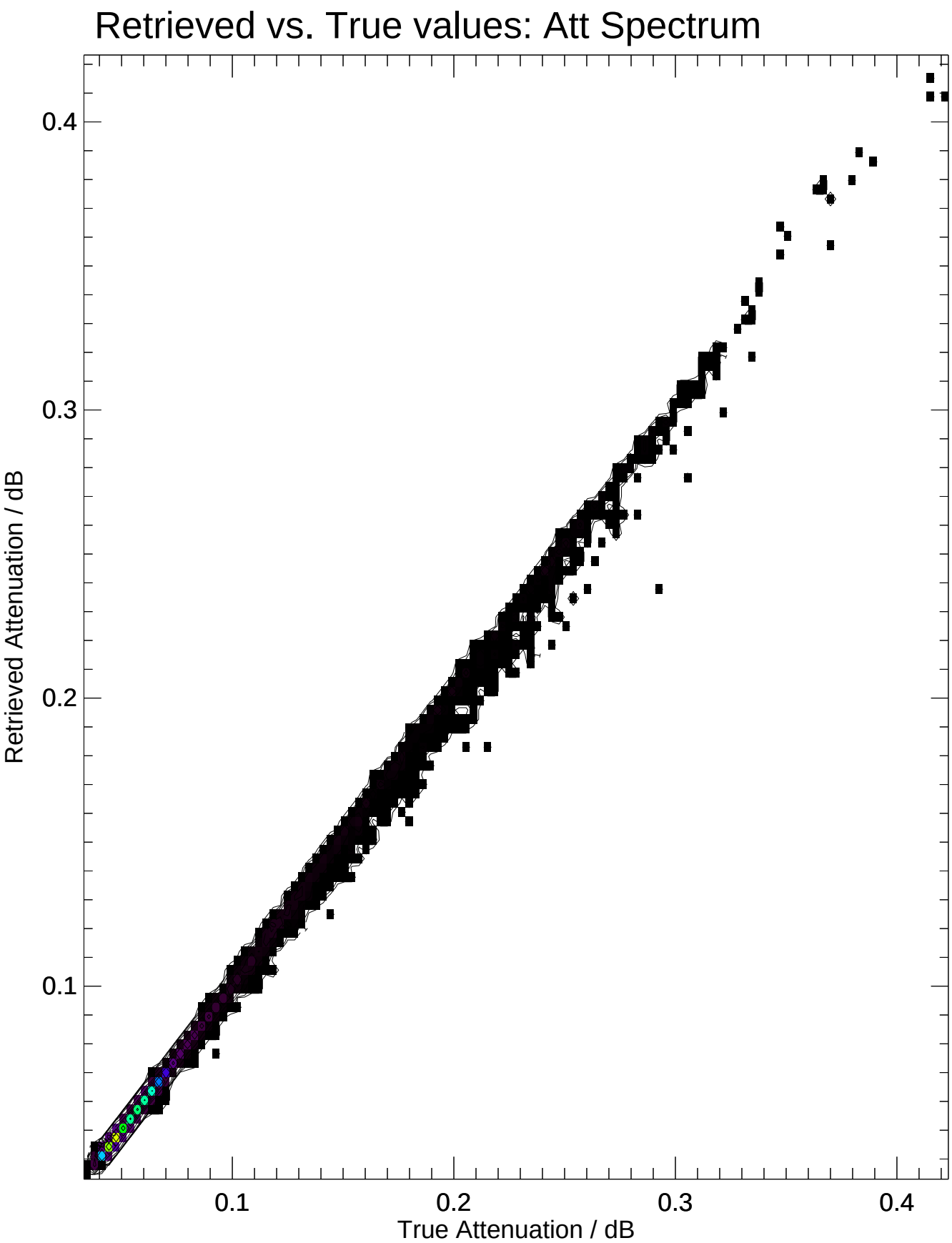

Relative Error (amplitude dependent)
F = 6.950 GHz
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB
0.03
0.02
0.01
0.00
-0.01
0.05
0.10
0.15
N=5582
N=2022
N=550
N=440
N=327
N=221
N=167
N=135
N=196
N=81
N=58
N=20
N=9
N=6
N=3
N=3

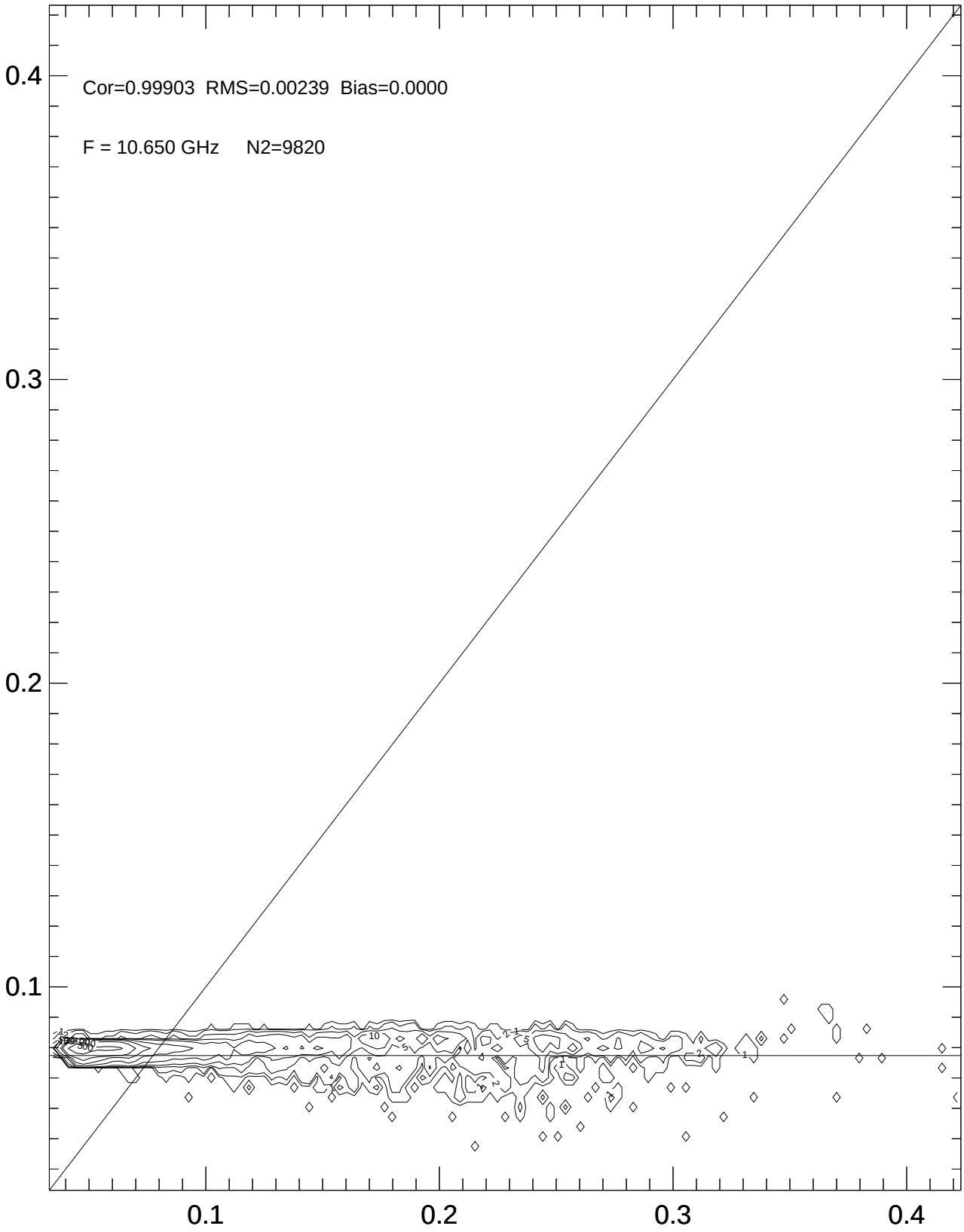

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.05
0.10
0.15
0.20
0.25

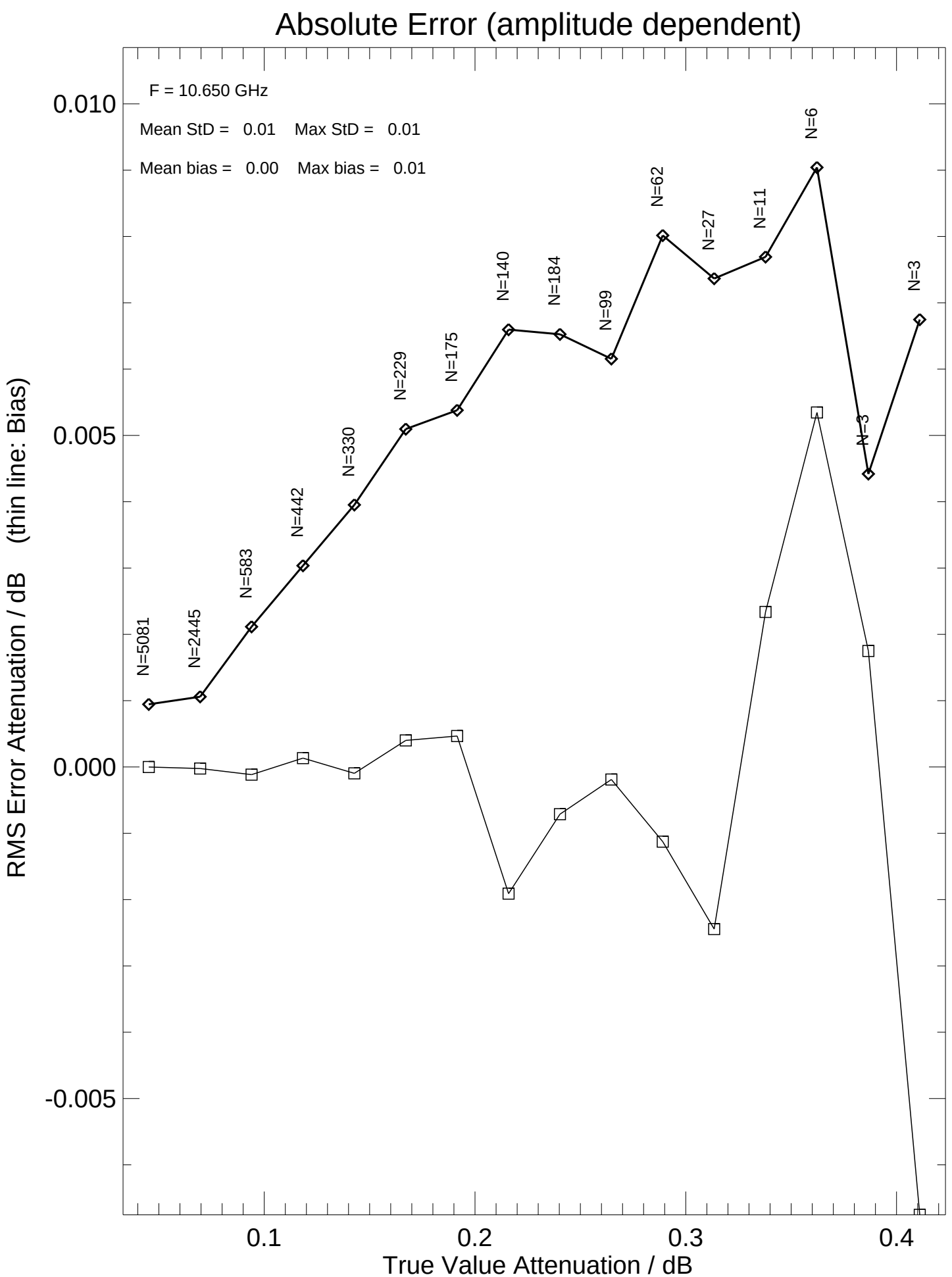

Cor=0.99885 RMS=0.00161 Bias=0.0000
F = 8.425 GHz N2=9820
0.25
0.20
0.15
0.10
0.05
0.05
0.10
0.15
0.20
0.25

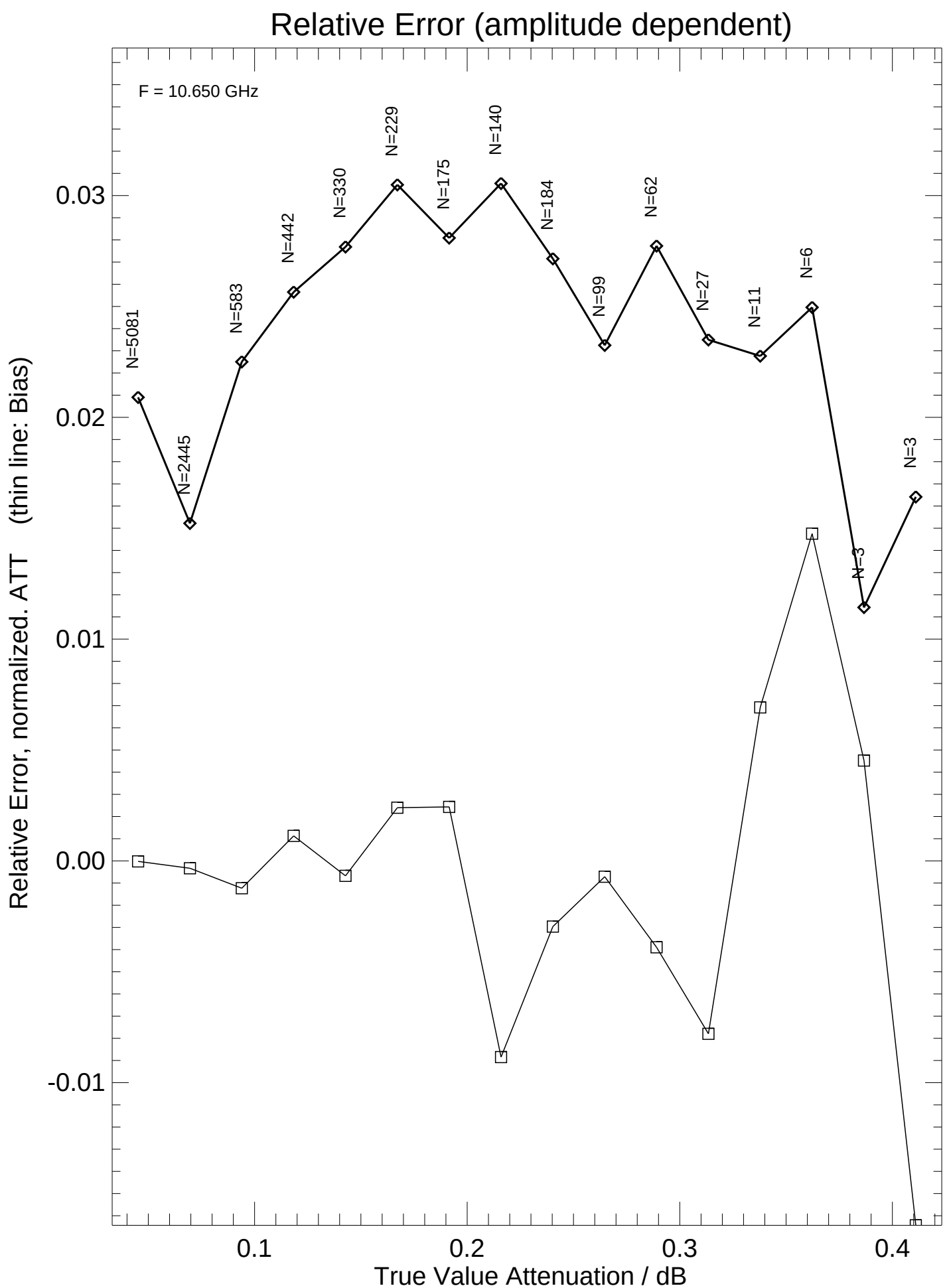

Absolute Error (amplitude dependent)
F = 8.425 GHz
Mean StD = 0.00 Max StD = 0.01
Mean bias = 0.00 Max bias = 0.00
N=5494
N=2106
N=551
N=438
N=317
N=226
N=170
N=136
N=193
N=85
N=60
N=23
N=9
N=6
N=3
N=3
0.006
0.004
0.002
0.000
-0.002
-0.004
0.05
0.10
0.15
0.20
0.25
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

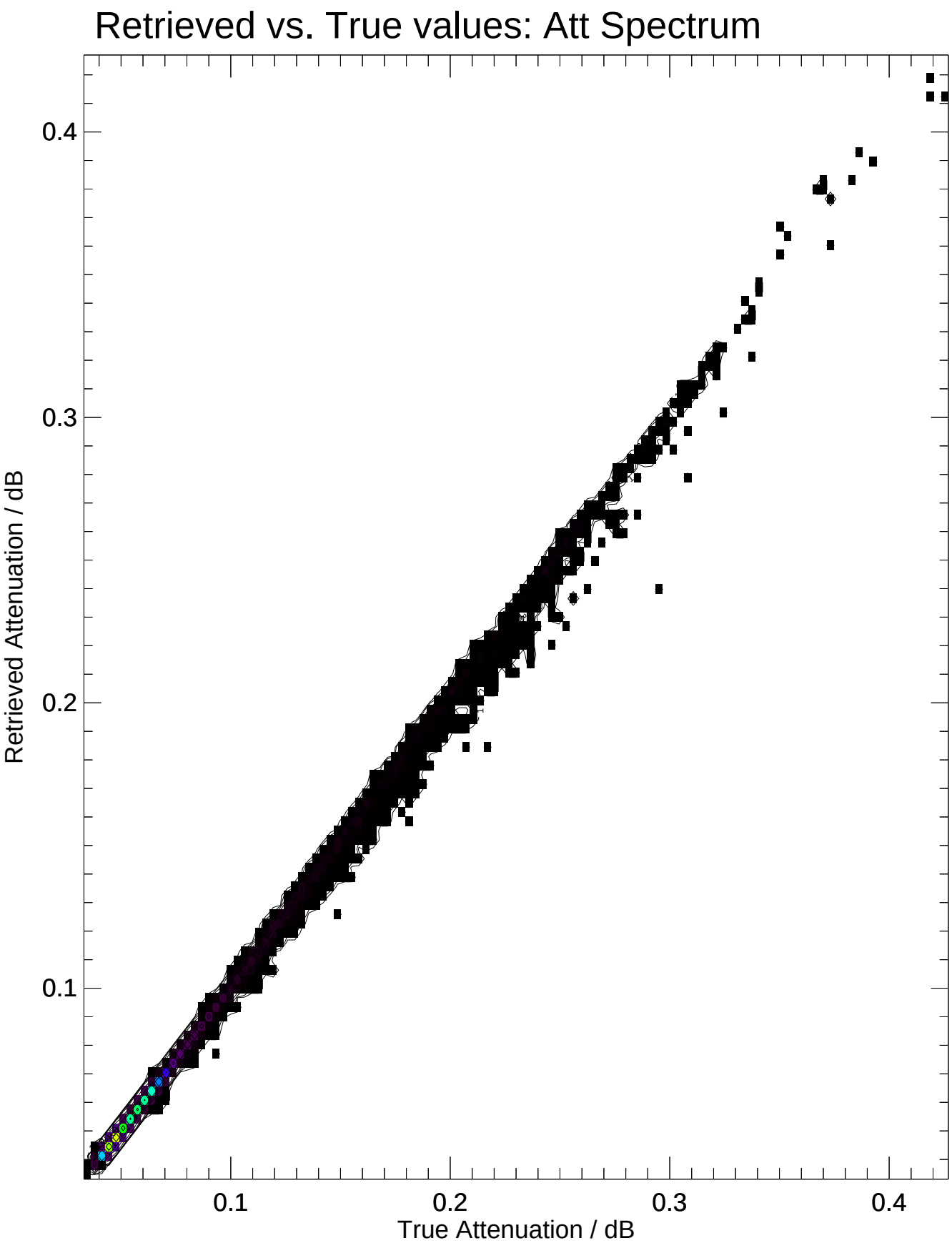

Relative Error (amplitude dependent)
F = 8.425 GHz
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB
0.03
0.02
0.01
0.00
-0.01
0.05
0.10
0.15
0.20
0.25
N=5494
N=2106
N=551
N=438
N=317
N=226
N=170
N=136
N=193
N=85
N=60
N=23
N=9
N=6
N=3
N=3

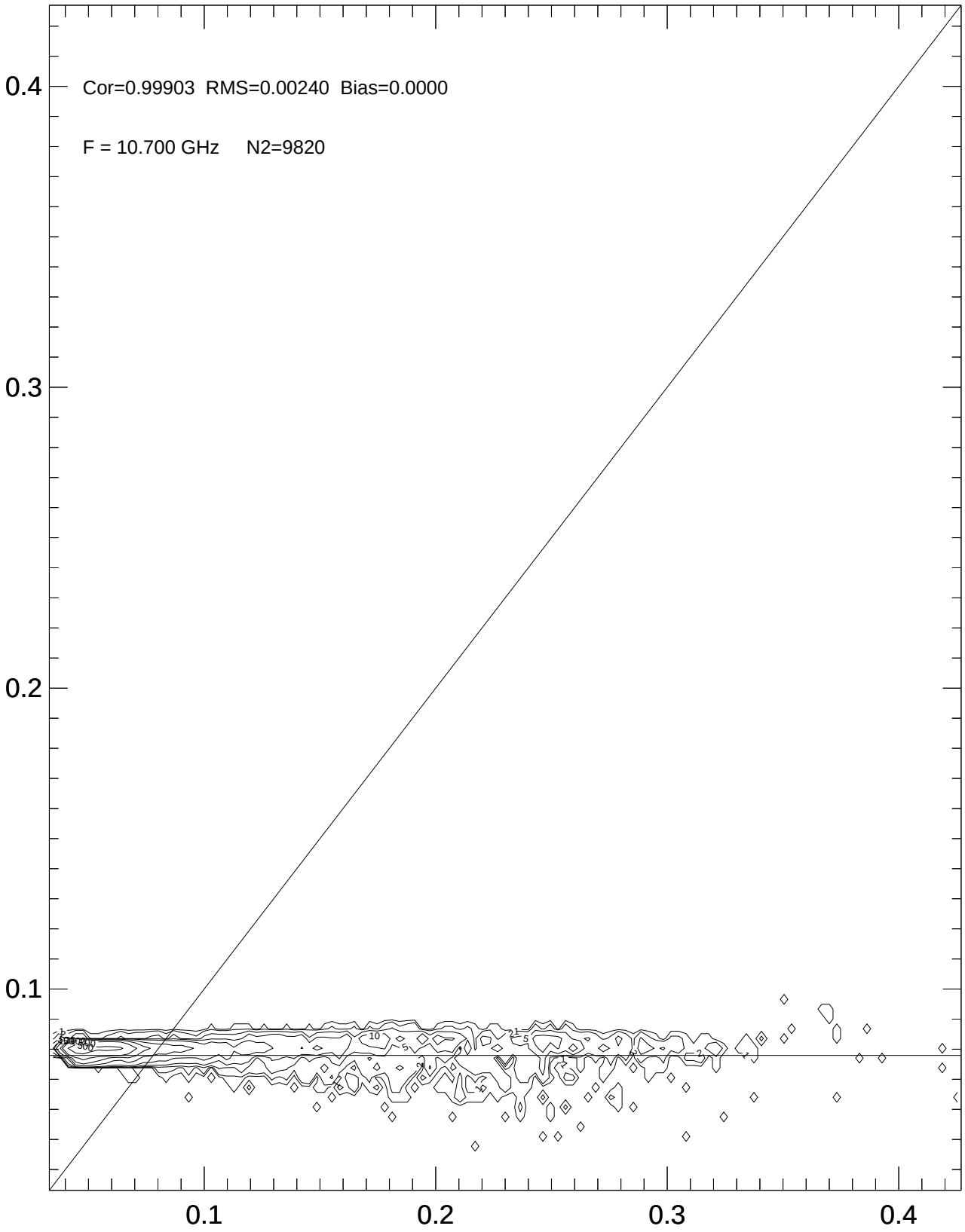

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.1
0.2
0.3
0.4
0.1
0.2
0.3
0.4

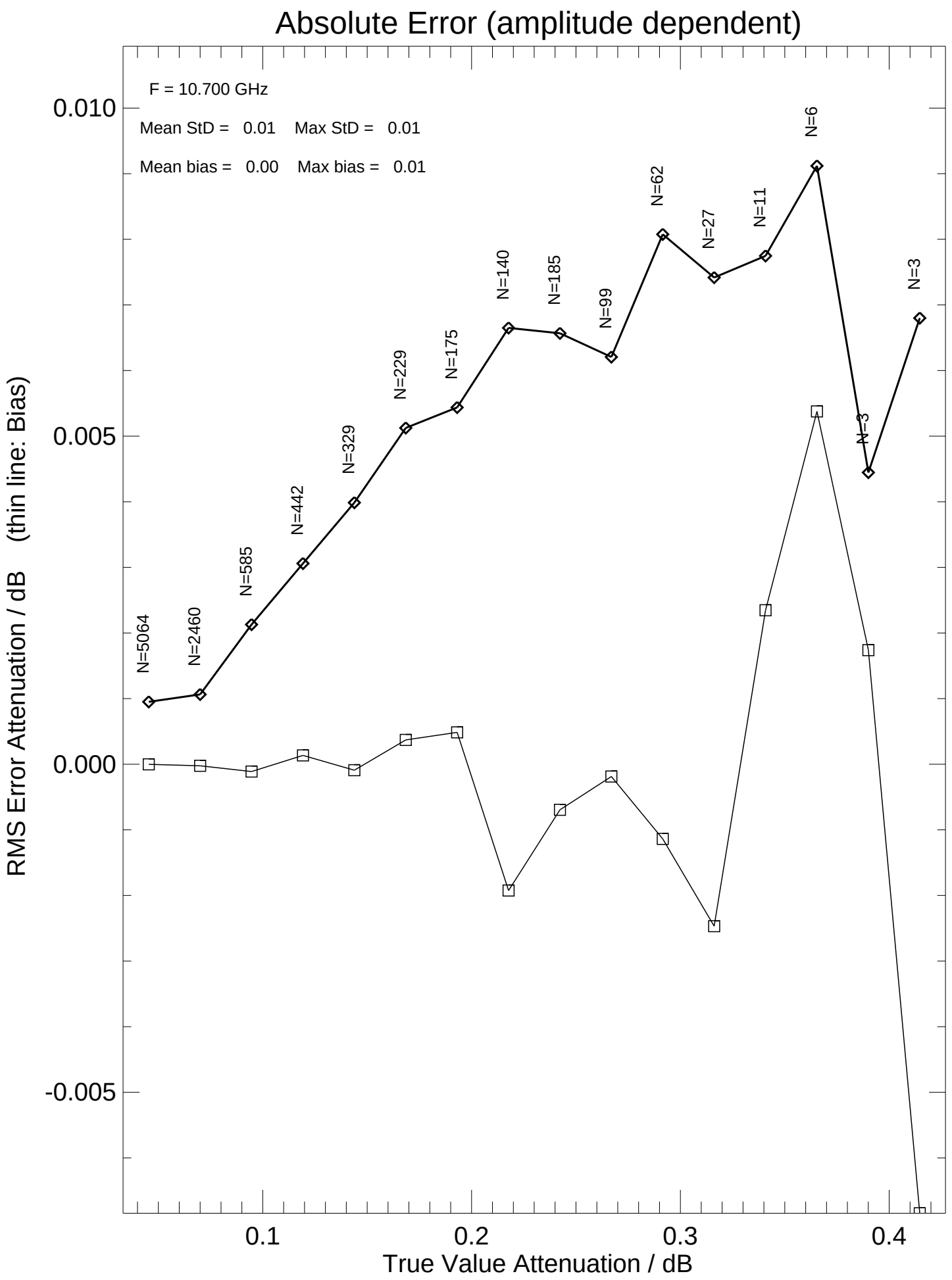

Cor=0.99903 RMS=0.00239 Bias=0.0000
F = 10.650 GHz N2=9820
0.4
0.3
0.2
0.1
0.1
0.2
0.3
0.4

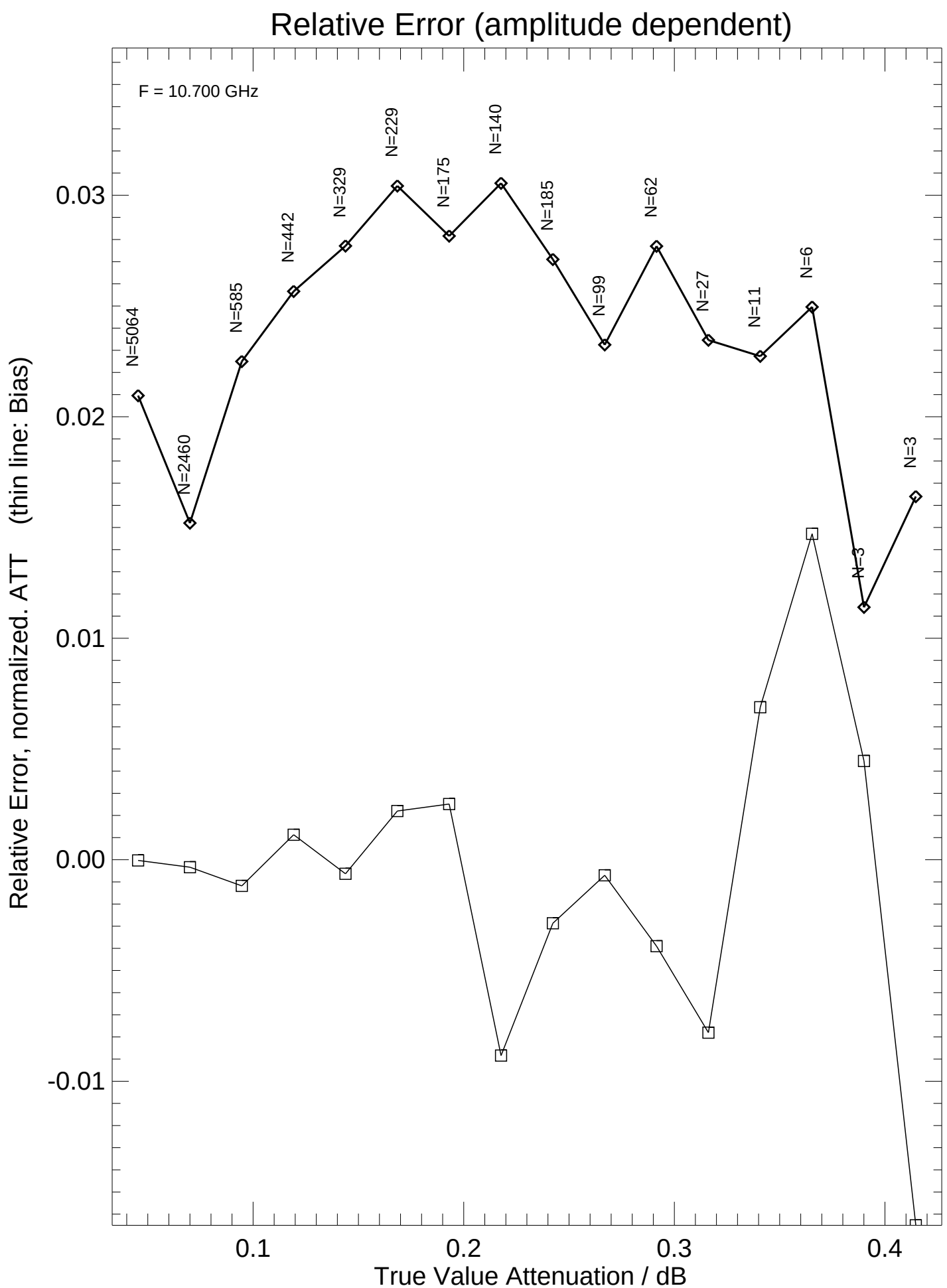

Absolute Error (amplitude dependent)
F = 10.650 GHz
Mean StD = 0.01 Max StD = 0.01
Mean bias = 0.00 Max bias = 0.01
0.010
0.005
0.000
-0.005
RMS Error Attenuation / dB (thin line: Bias)
N=5081
N=2445
N=583
N=442
N=330
N=229
N=175
N=140
N=184
N=99
N=62
N=27
N=11
N=6
N=3
N=3
0.1
0.2
0.3
0.4
True Value Attenuation / dB

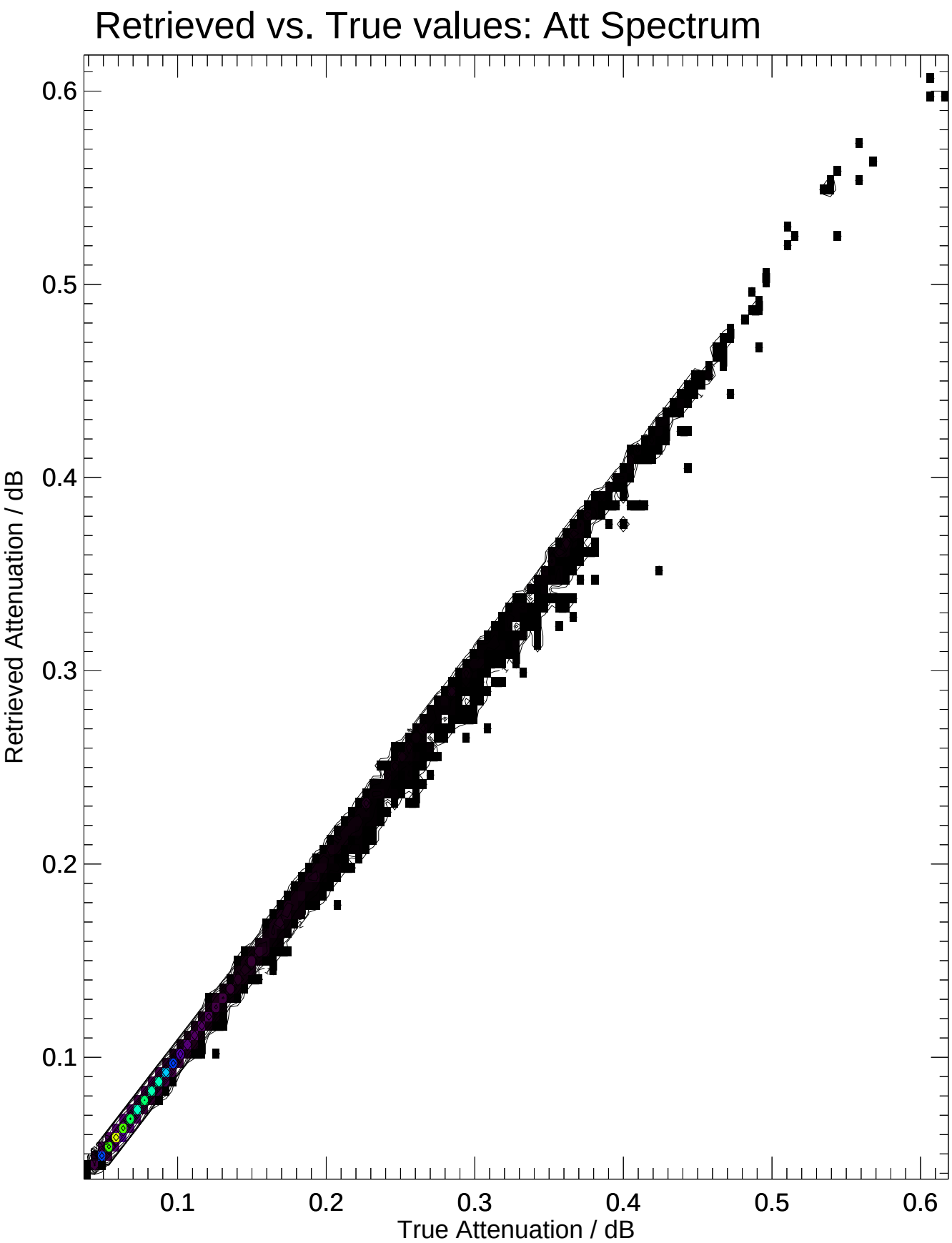

Relative Error (amplitude dependent)
F = 10.650 GHz
N=5081
N=2445
N=583
N=442
N=330
N=229
N=175
N=140
N=184
N=99
N=62
N=27
N=11
N=6
N=3
N=3
0.03
0.02
0.01
0.00
-0.01
0.1
0.2
0.3
0.4
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

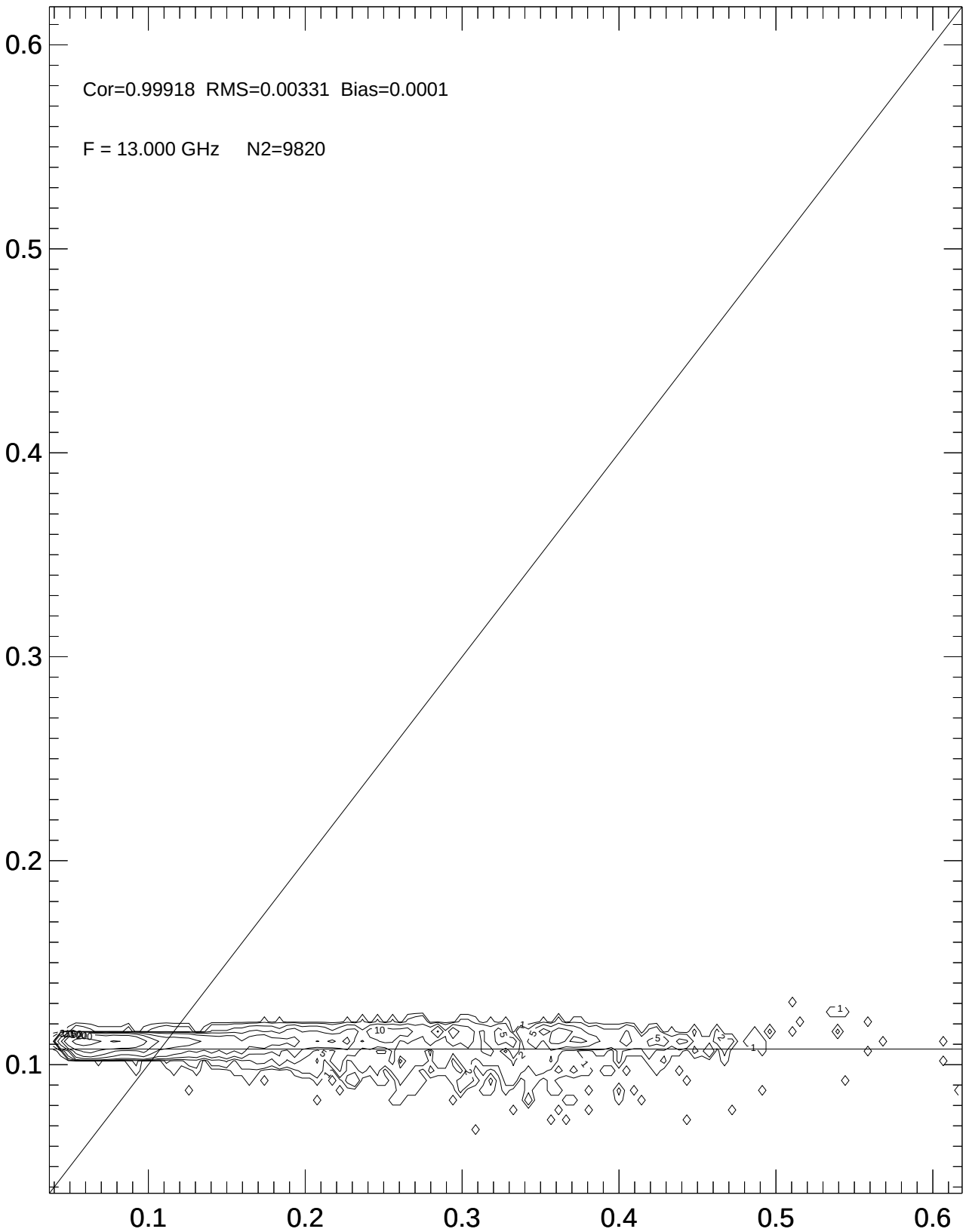

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.1
0.2
0.3
0.4
0.1
0.2
0.3
0.4

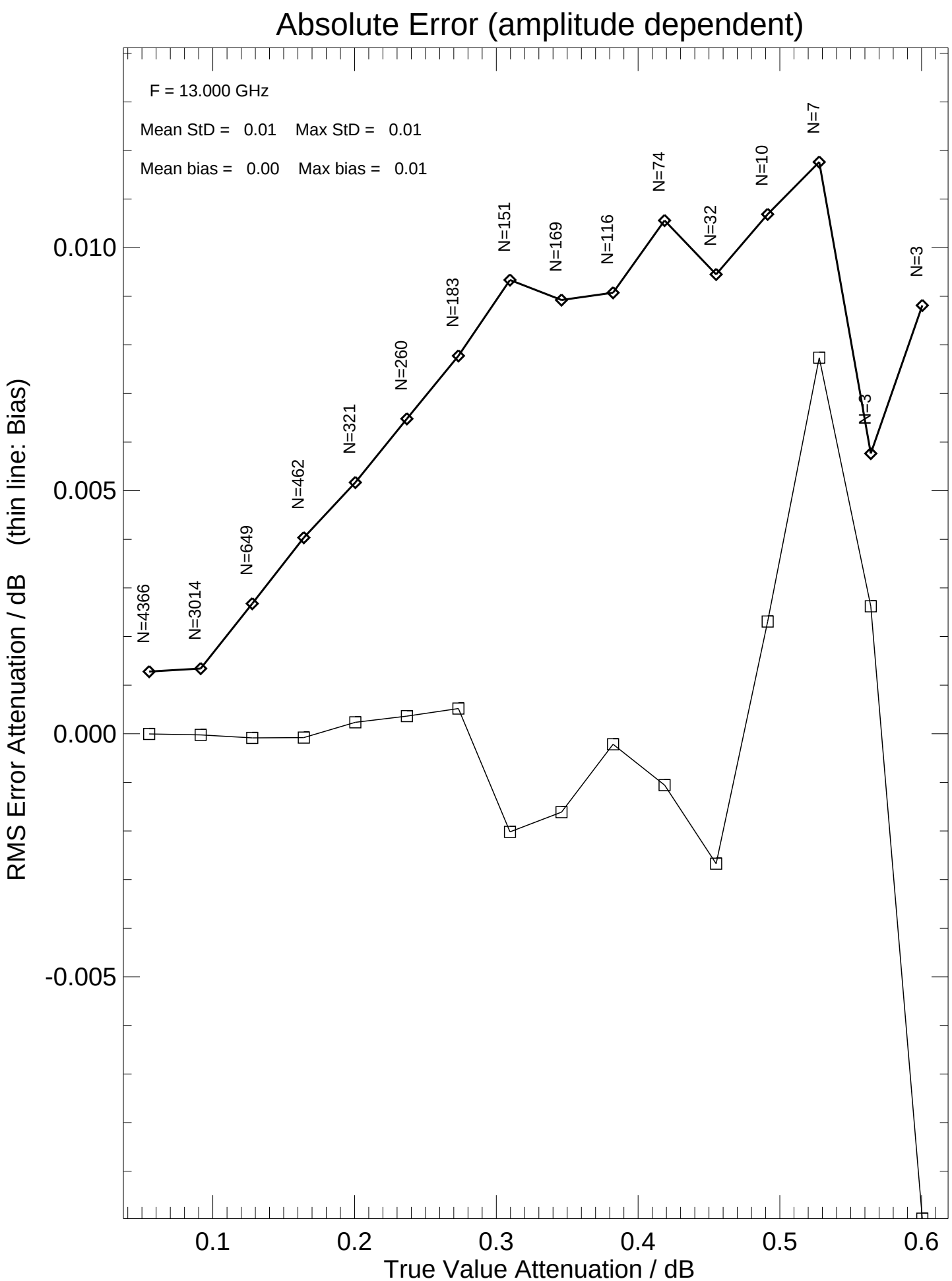

Cor=0.99903 RMS=0.00240 Bias=0.0000
F = 10.700 GHz N2=9820
0.4
0.3
0.2
0.1
0.1
0.2
0.3
0.4

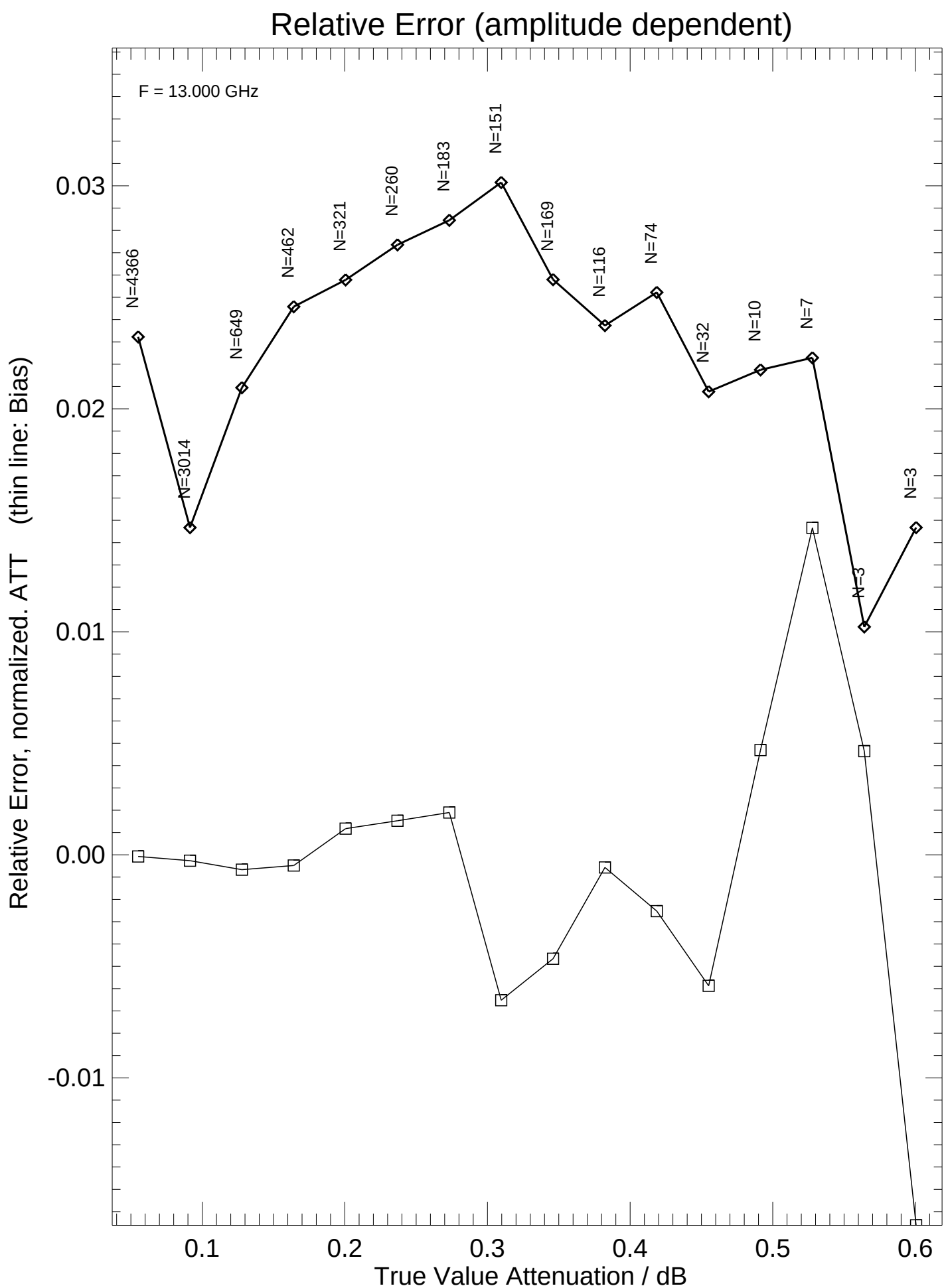

Absolute Error (amplitude dependent)
F = 10.700 GHz
Mean StD = 0.01 Max StD = 0.01
Mean bias = 0.00 Max bias = 0.01
N=5064
N=2460
N=585
N=442
N=329
N=229
N=175
N=140
N=185
N=99
N=62
N=27
N=11
N=6
N=3
N=3
0.010
0.005
0.000
-0.005
0.1
0.2
0.3
0.4
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

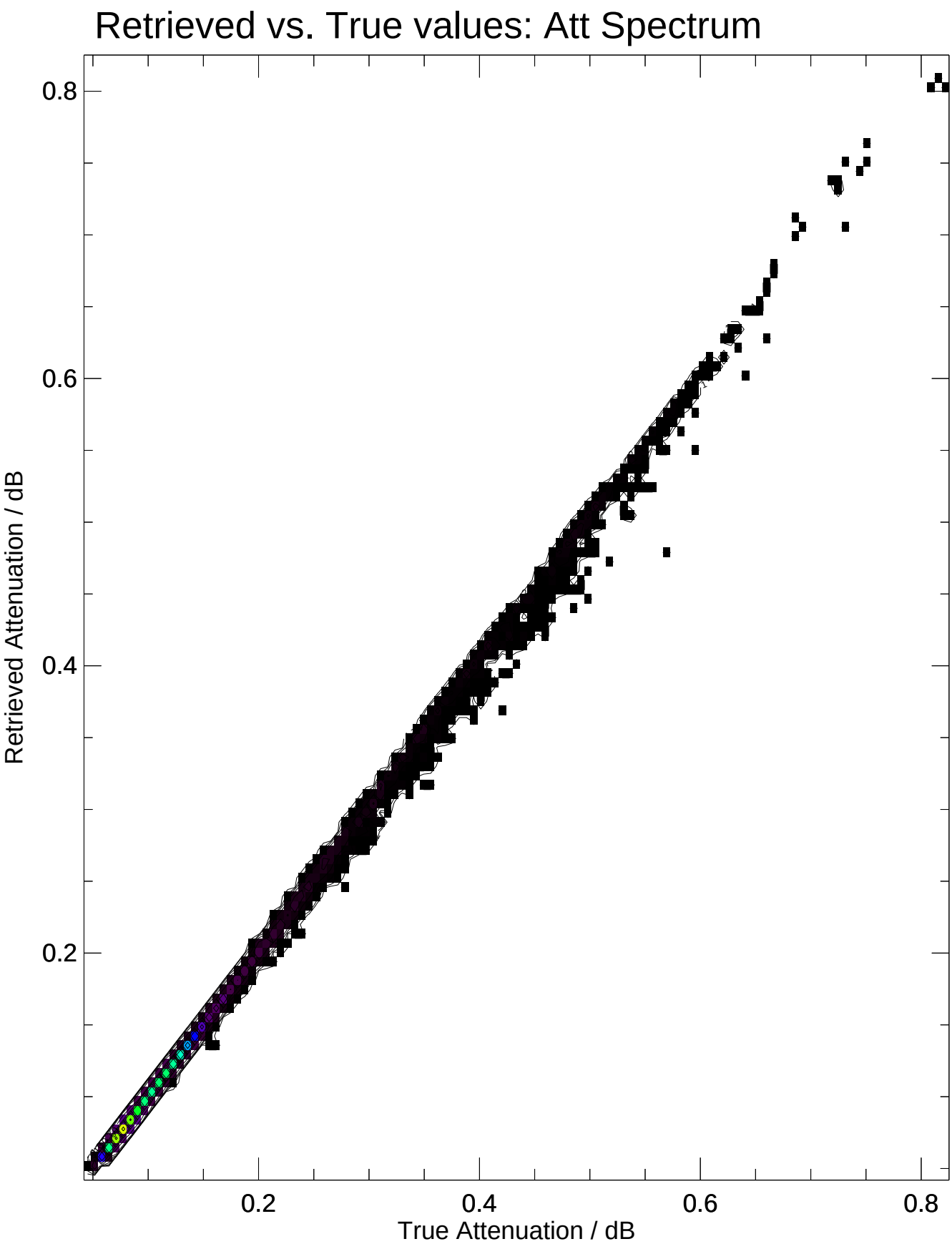

Relative Error (amplitude dependent)
F = 10.700 GHz
N=5064
N=2460
N=585
N=442
N=329
N=229
N=175
N=140
N=185
N=99
N=62
N=27
N=11
N=6
N=3
N=3
0.03
0.02
0.01
0.00
-0.01
0.1
0.2
0.3
0.4
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

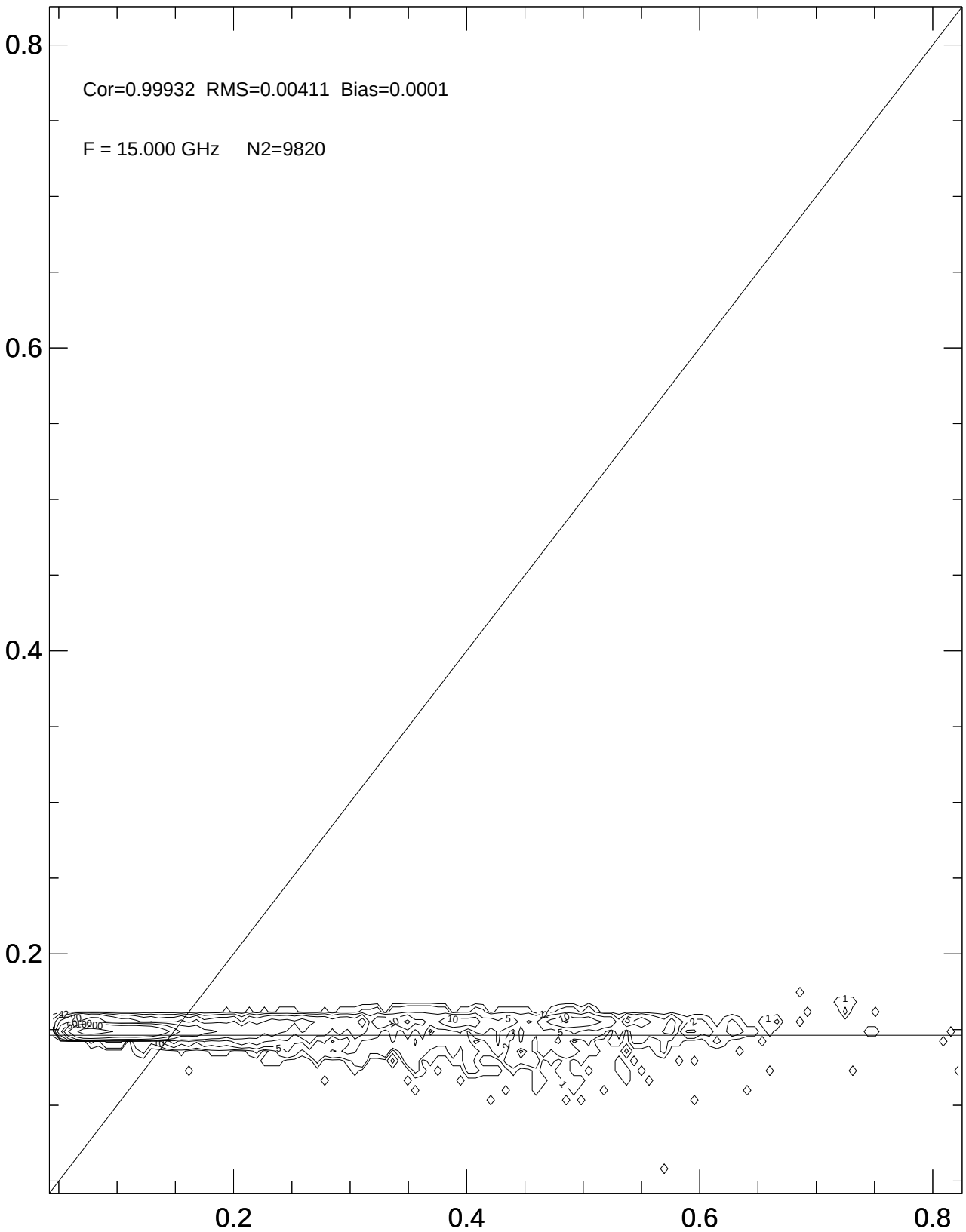

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.1
0.2
0.3
0.4
0.5
0.6

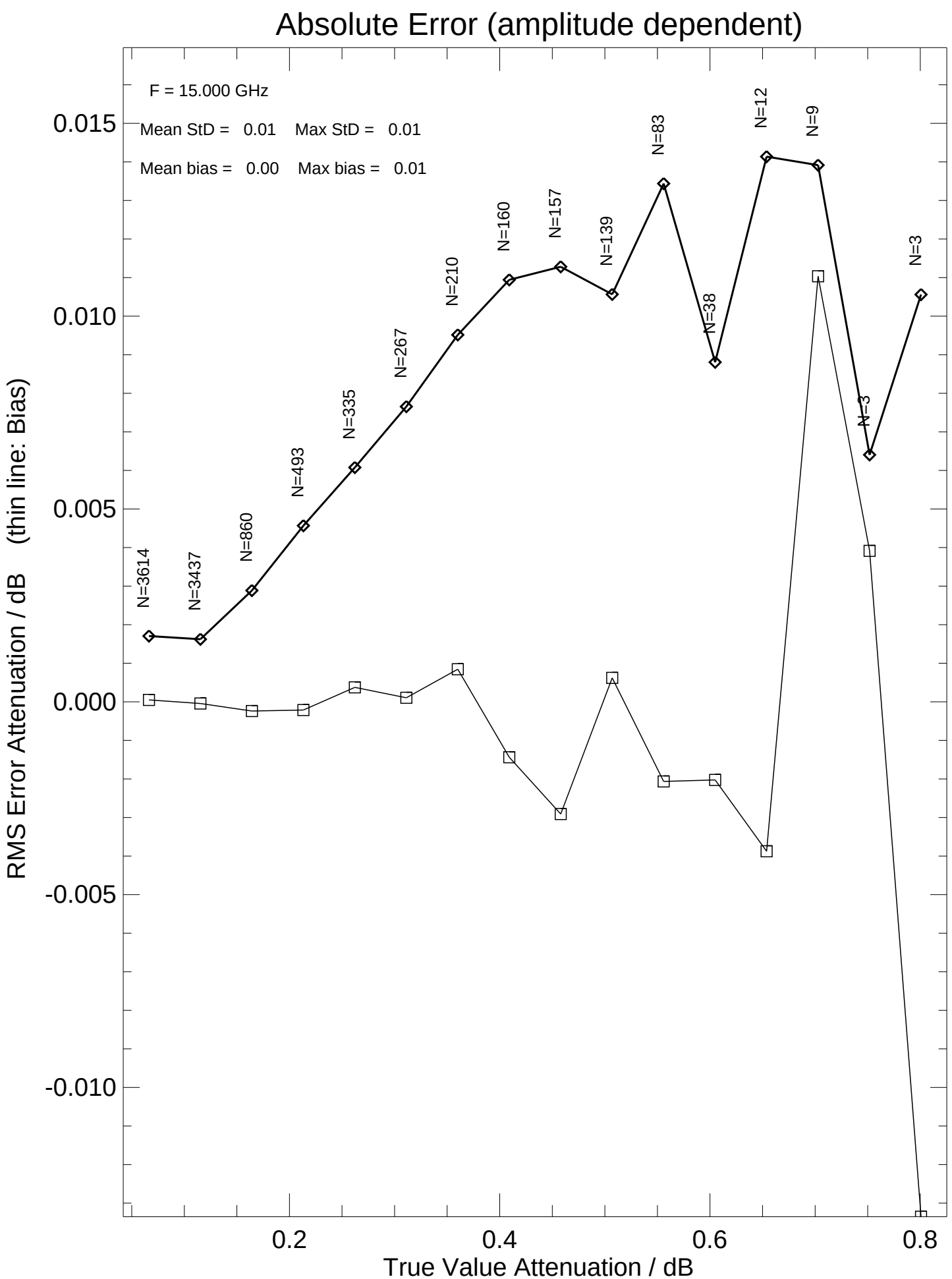

Cor=0.99918 RMS=0.00331 Bias=0.0001
F = 13.000 GHz N2=9820
0.6
0.5
0.4
0.3
0.2
0.1
0.1
0.2
0.3
0.4
0.5
0.6

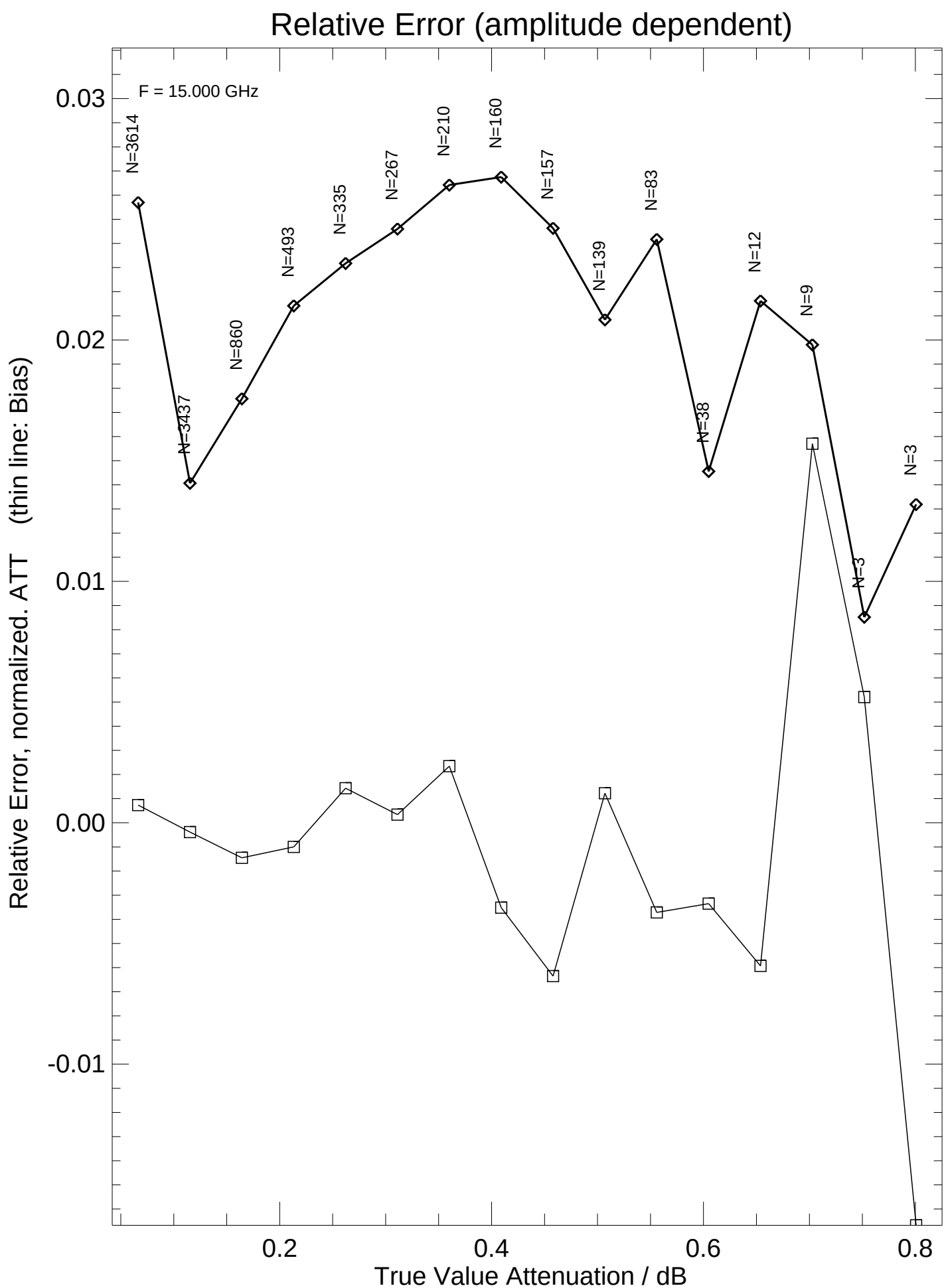

Absolute Error (amplitude dependent)
F = 13.000 GHz
Mean StD = 0.01 Max StD = 0.01
Mean bias = 0.00 Max bias = 0.01
N=4366
N=3014
N=649
N=462
N=321
N=260
N=183
N=151
N=169
N=116
N=74
N=32
N=10
N=7
N=3
N=3
0.010
0.005
0.000
-0.005
RMS Error Attenuation / dB (thin line: Bias)
0.1
0.2
0.3
0.4
0.5
0.6
True Value Attenuation / dB

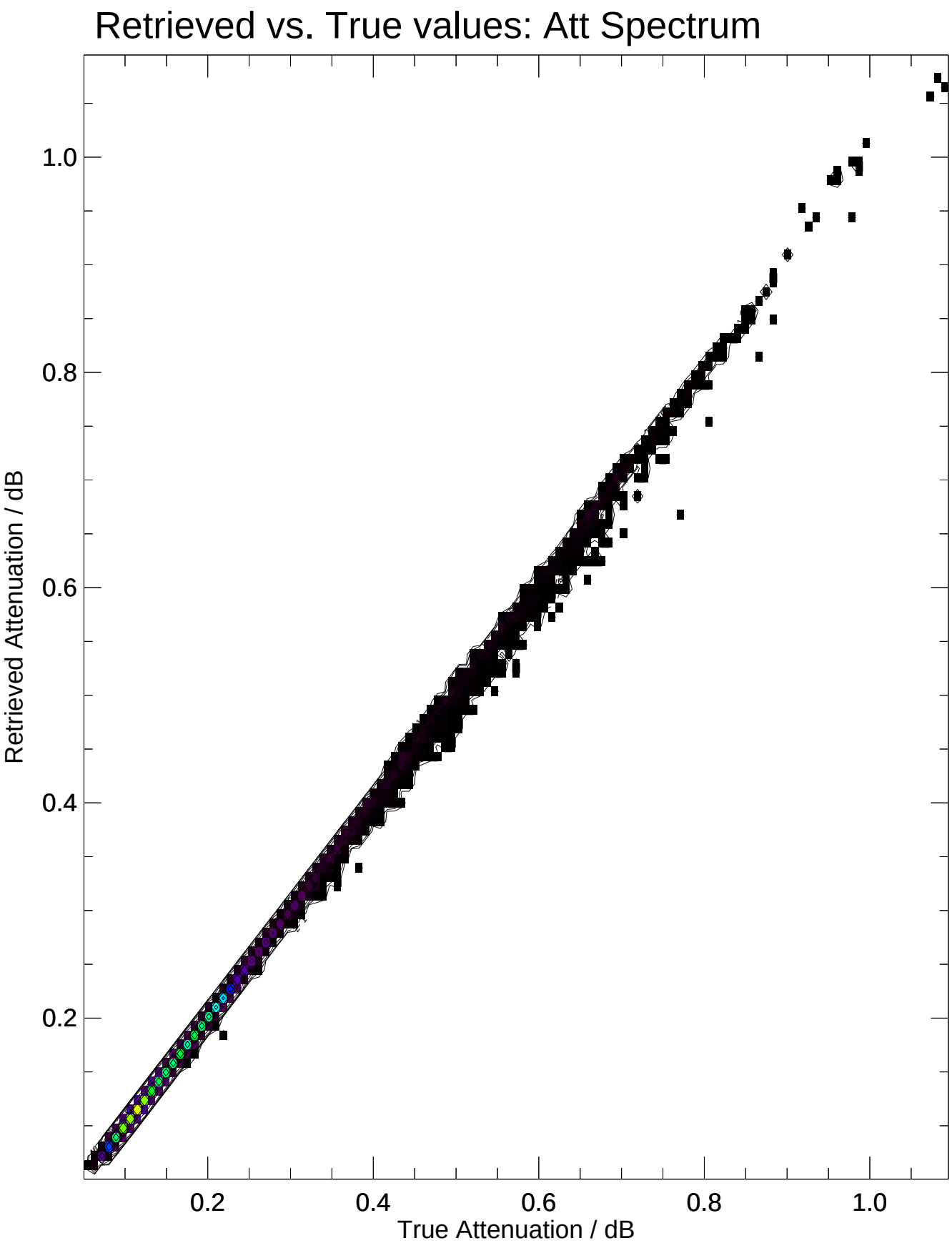

Relative Error (amplitude dependent)
F = 13.000 GHz
N=4366
N=3014
N=649
N=462
N=321
N=260
N=183
N=151
N=169
N=116
N=74
N=32
N=10
N=7
N=3
N=3
0.03
0.02
0.01
0.00
-0.01
0.1
0.2
0.3
0.4
0.5
0.6
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

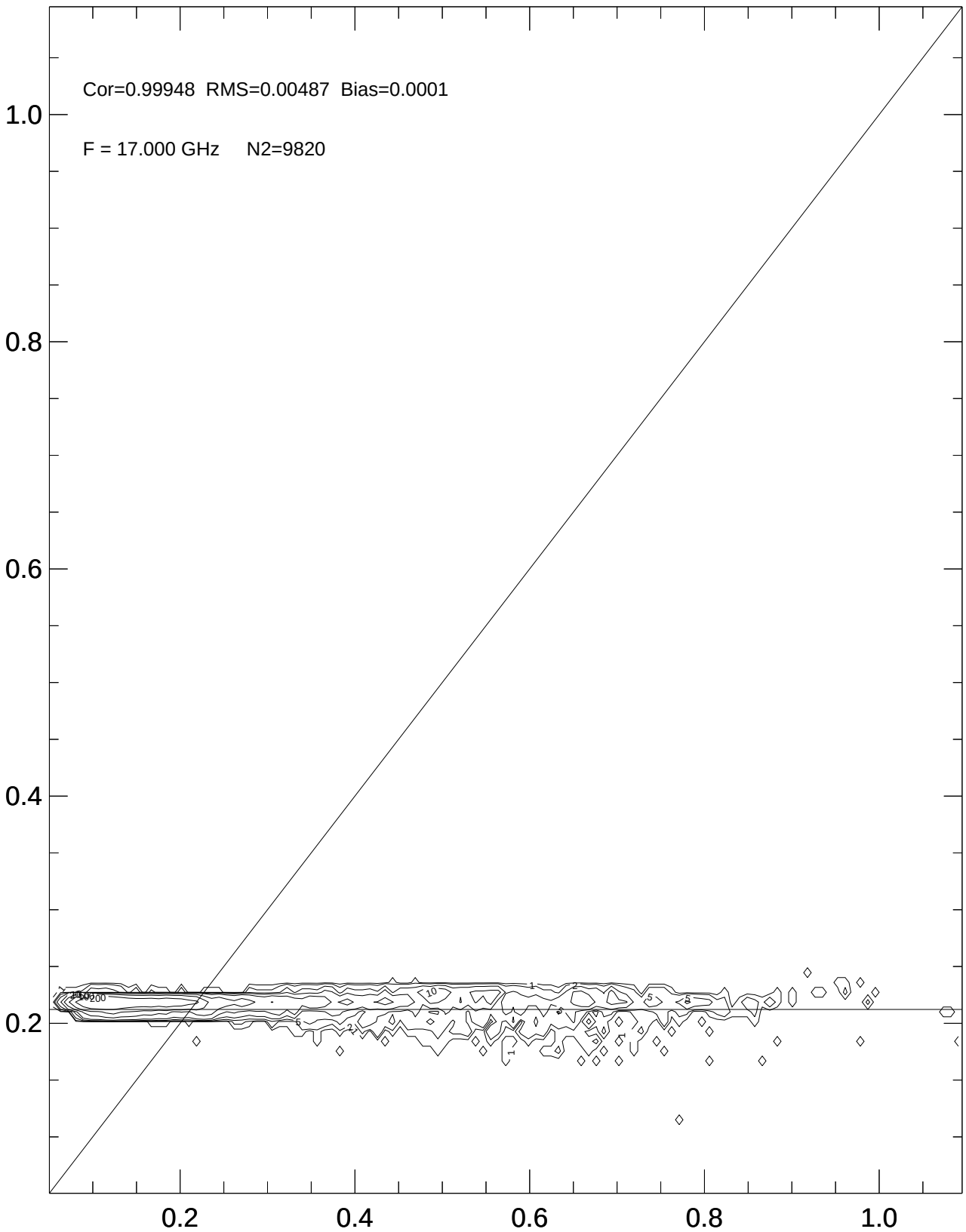

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.2
0.4
0.6
0.8
0.2
0.4
0.6
0.8

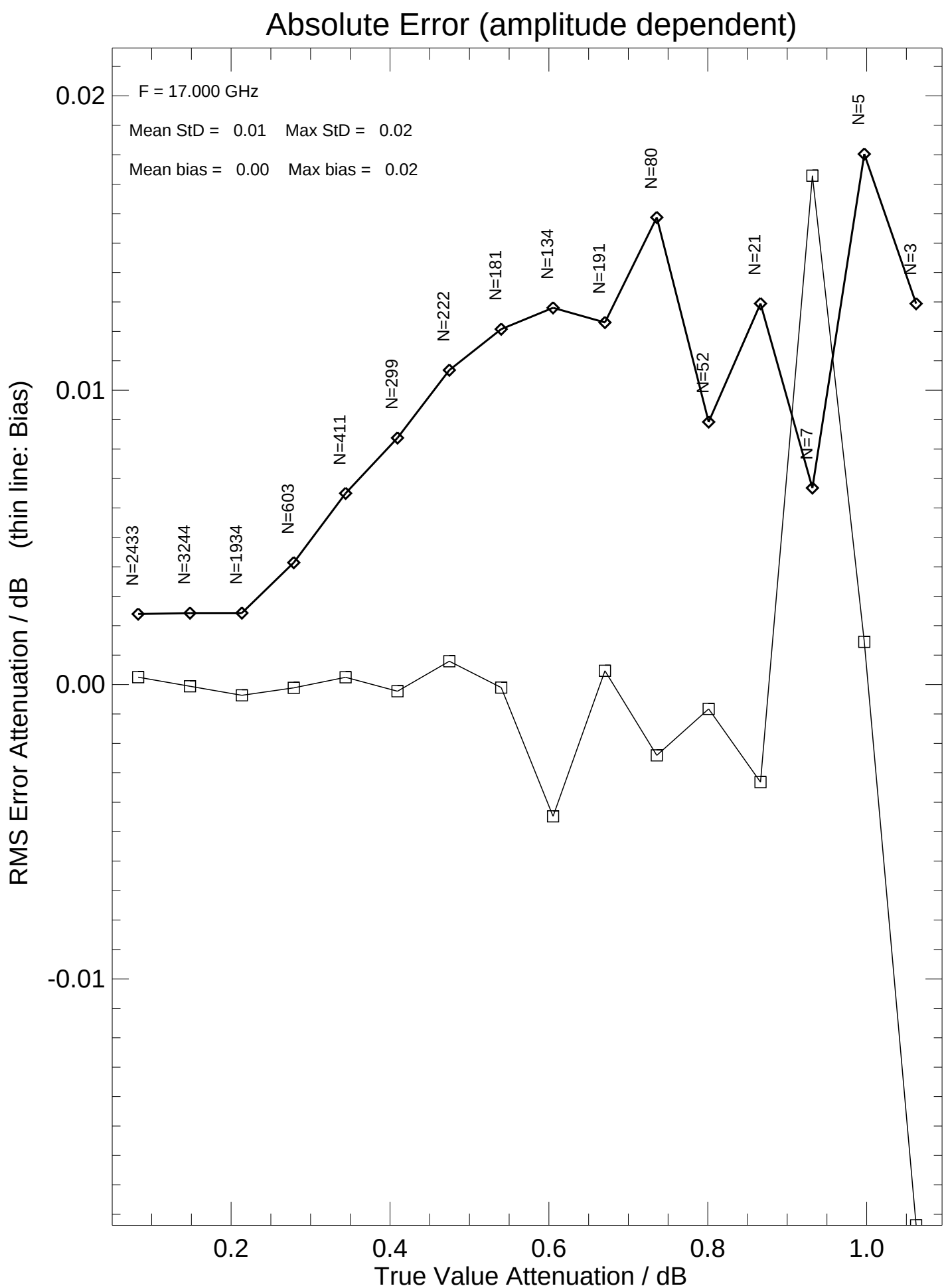

Cor=0.99932 RMS=0.00411 Bias=0.0001
F = 15.000 GHz N2=9820
0.8
0.6
0.4
0.2
0.2
0.4
0.6
0.8

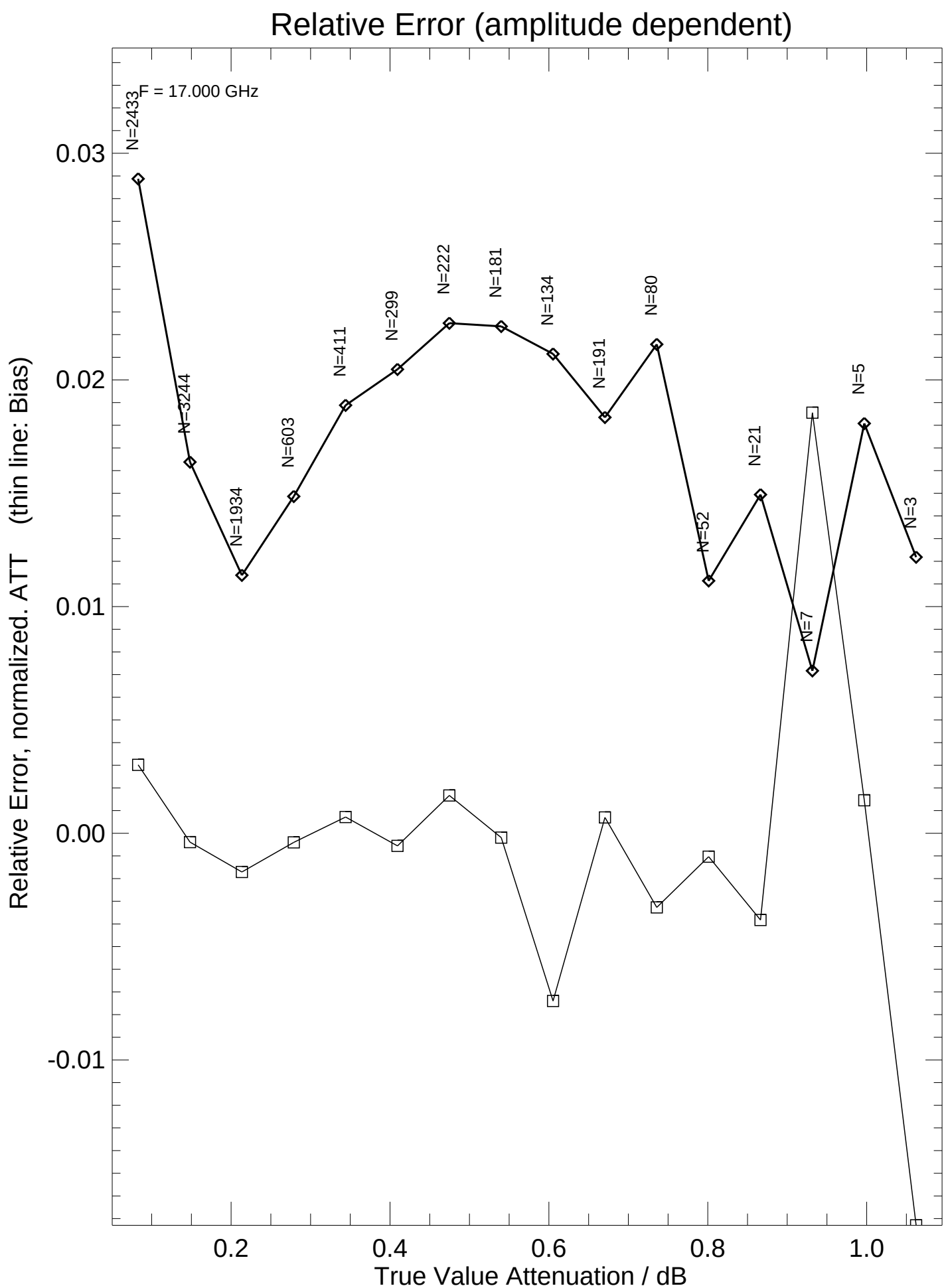

Absolute Error (amplitude dependent)
F = 15.000 GHz
Mean StD = 0.01 Max StD = 0.01
Mean bias = 0.00 Max bias = 0.01
N=3614
N=3437
N=860
N=493
N=335
N=267
N=210
N=160
N=157
N=139
N=83
N=38
N=12
N=9
N=3
N=3
0.015
0.010
0.005
0.000
-0.005
-0.010
0.2
0.4
0.6
0.8
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

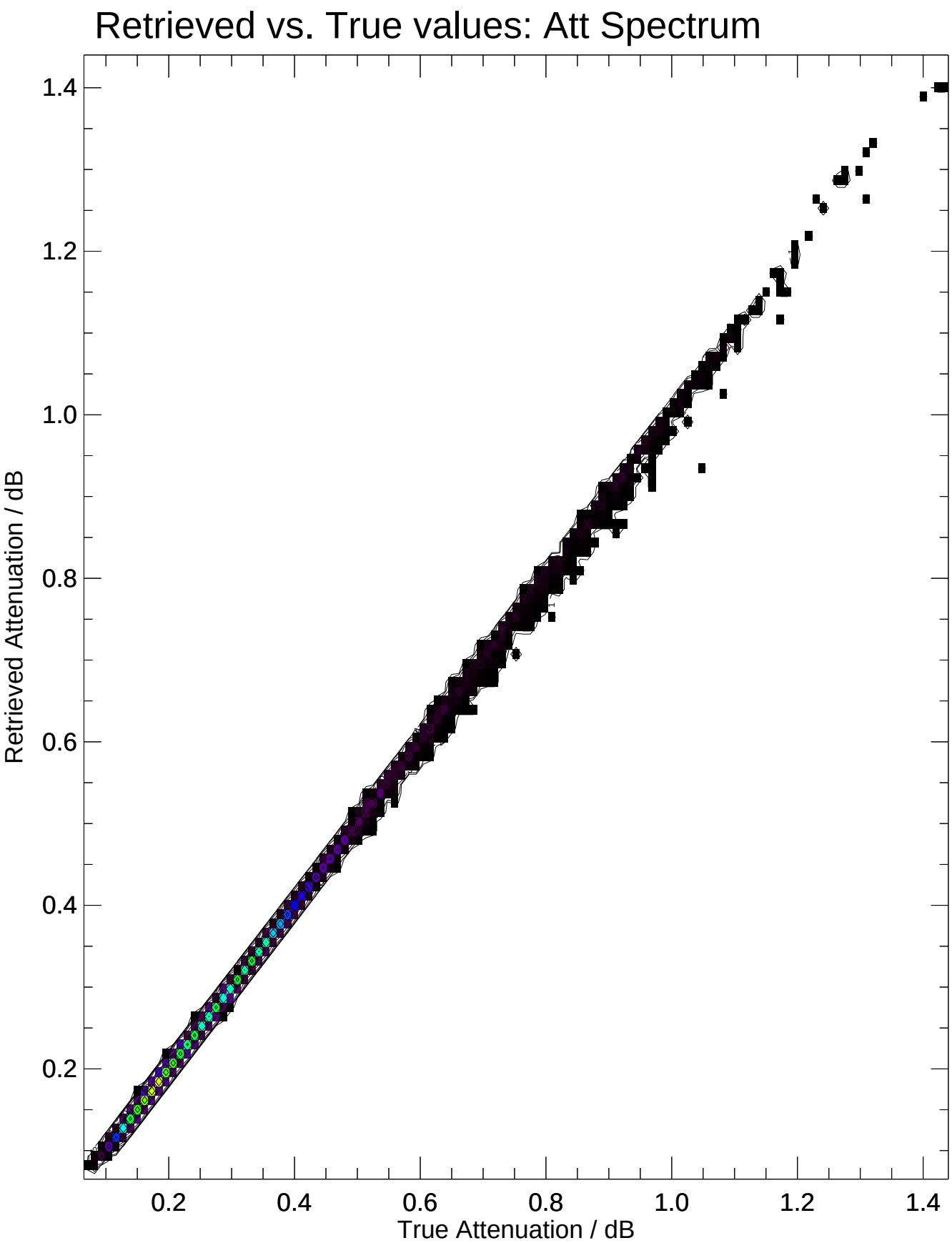

Relative Error (amplitude dependent)
F = 15.000 GHz
N=3614
N=3437
N=860
N=493
N=335
N=267
N=210
N=160
N=157
N=139
N=83
N=38
N=12
N=9
N=3
0.03
0.02
0.01
0.00
-0.01
0.2
0.4
0.6
0.8
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

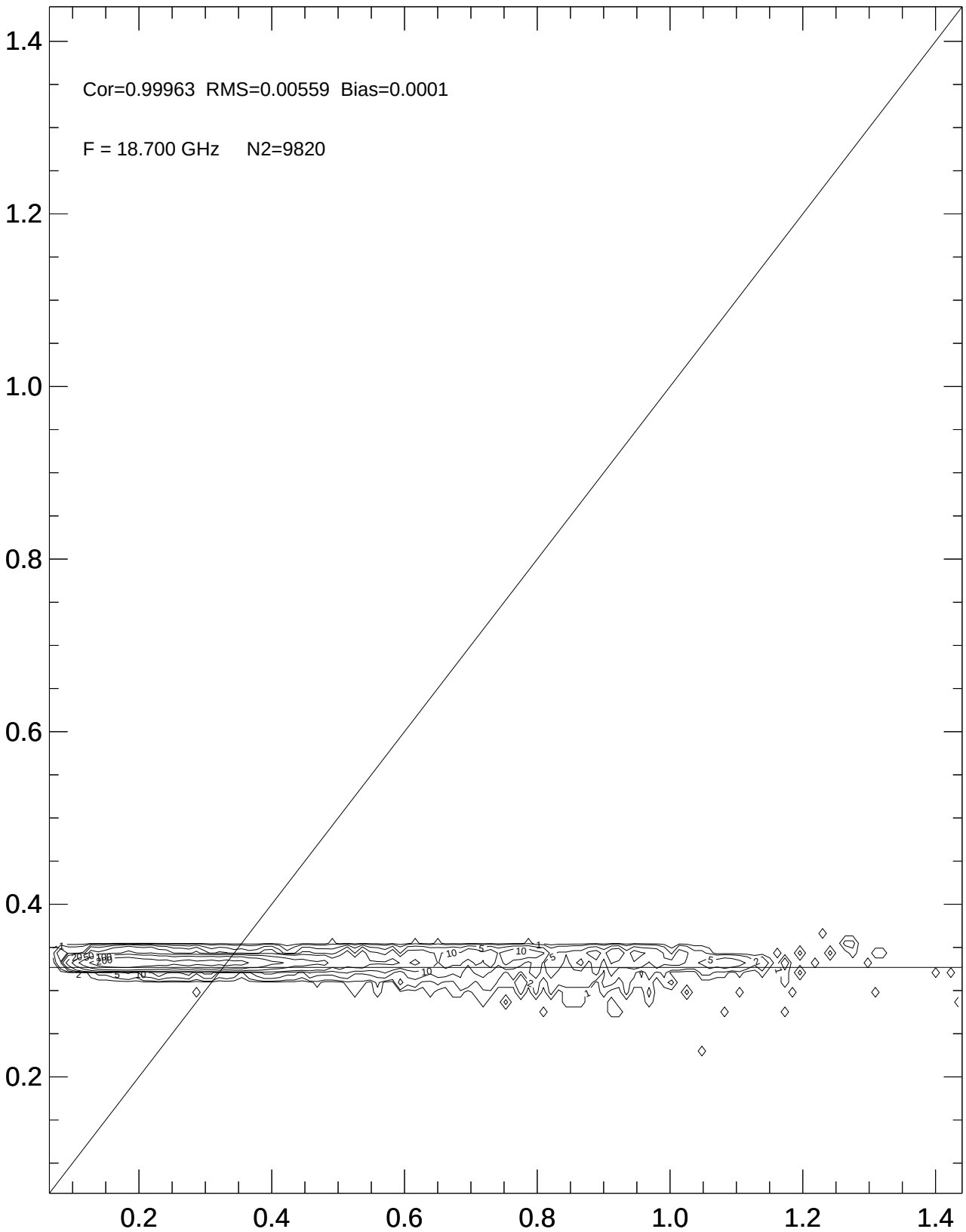

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.2
0.4
0.6
0.8
1.0

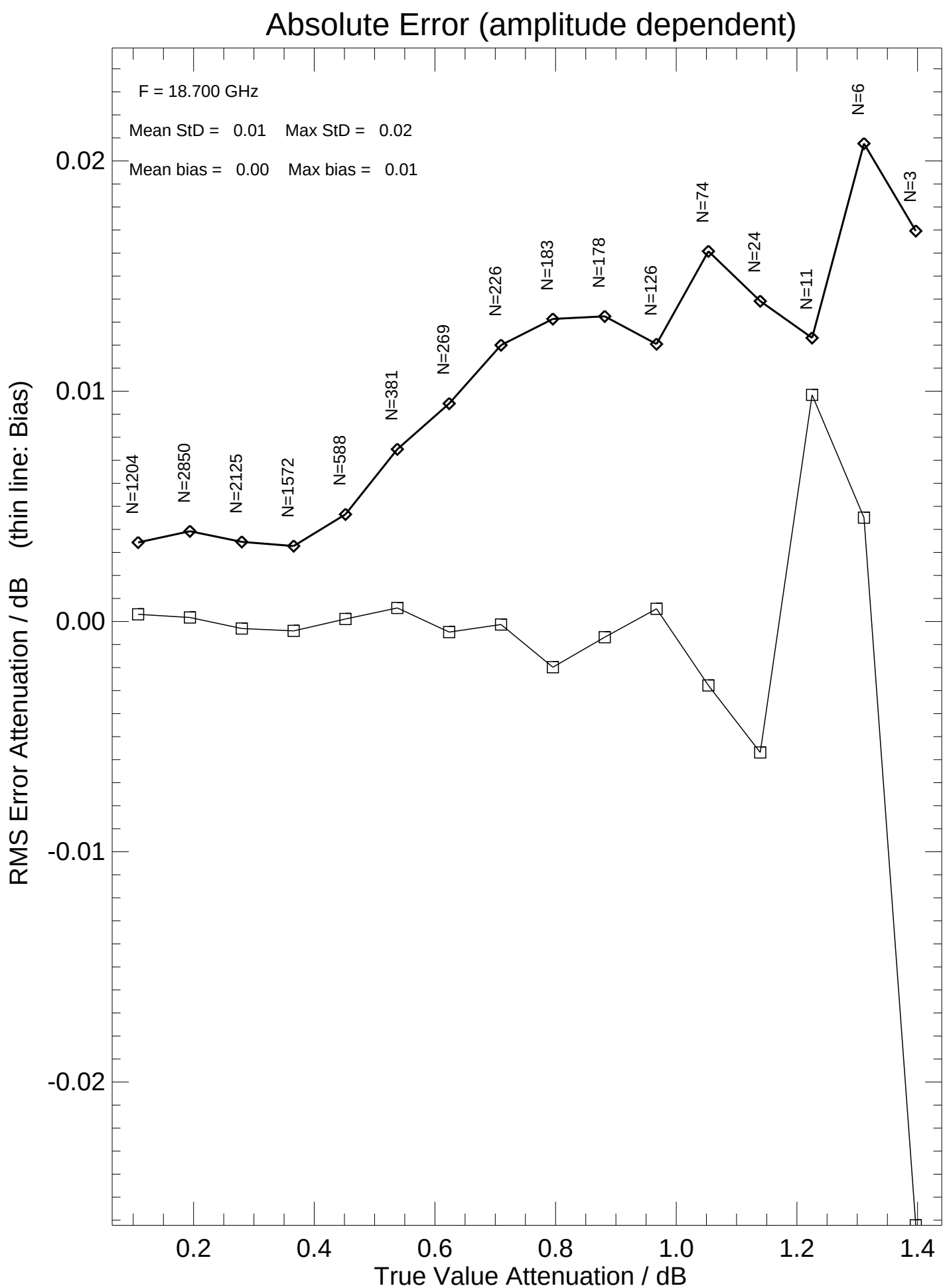

Cor=0.99948 RMS=0.00487 Bias=0.0001
F = 17.000 GHz N2=9820
1.0
0.8
0.6
0.4
0.2
0.2
0.4
0.6
0.8
1.0

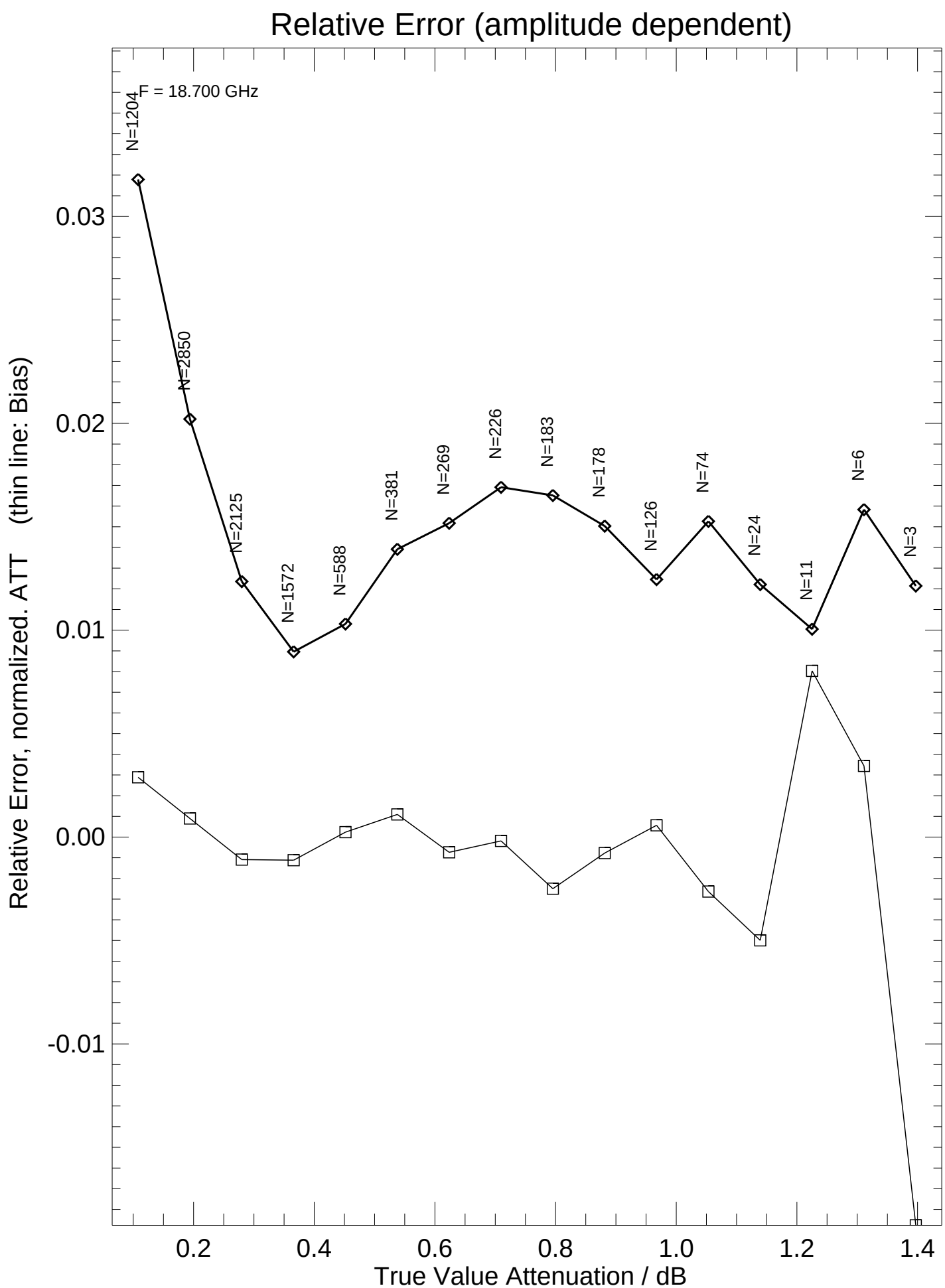

Absolute Error (amplitude dependent)
F = 17.000 GHz
Mean StD = 0.01 Max StD = 0.02
Mean bias = 0.00 Max bias = 0.02
N=2433
N=3244
N=1934
N=603
N=411
N=299
N=222
N=181
N=134
N=191
N=80
N=52
N=21
N=7
N=5
N=3
0.02
0.01
0.00
-0.01
0.2
0.4
0.6
0.8
1.0
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

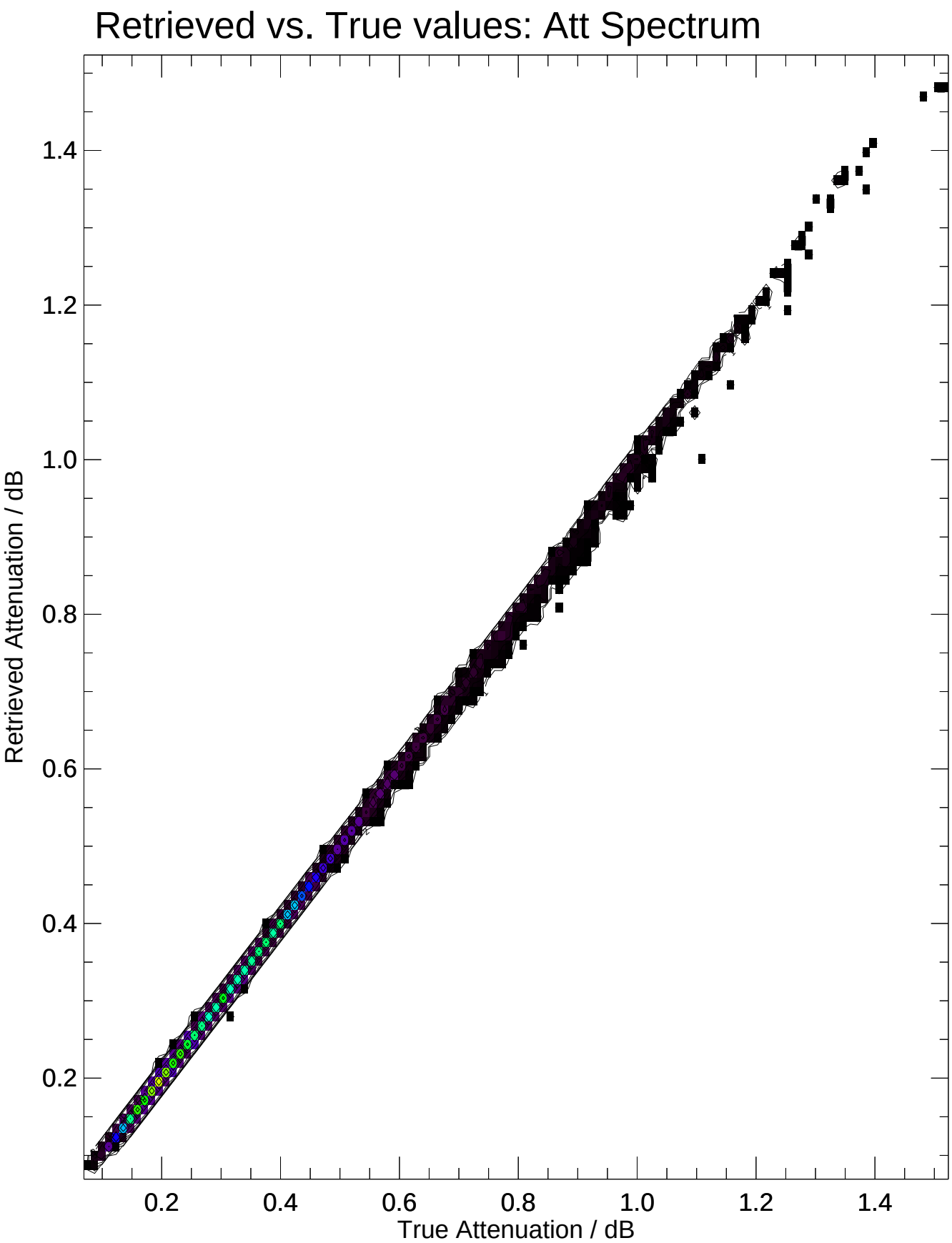

Relative Error (amplitude dependent)
F = 17.000 GHz
N=2433
N=3244
N=1934
N=603
N=411
N=299
N=222
N=181
N=134
N=191
N=80
N=52
N=21
N=7
N=5
N=3
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
0.2
0.4
0.6
0.8
1.0
True Value Attenuation / dB

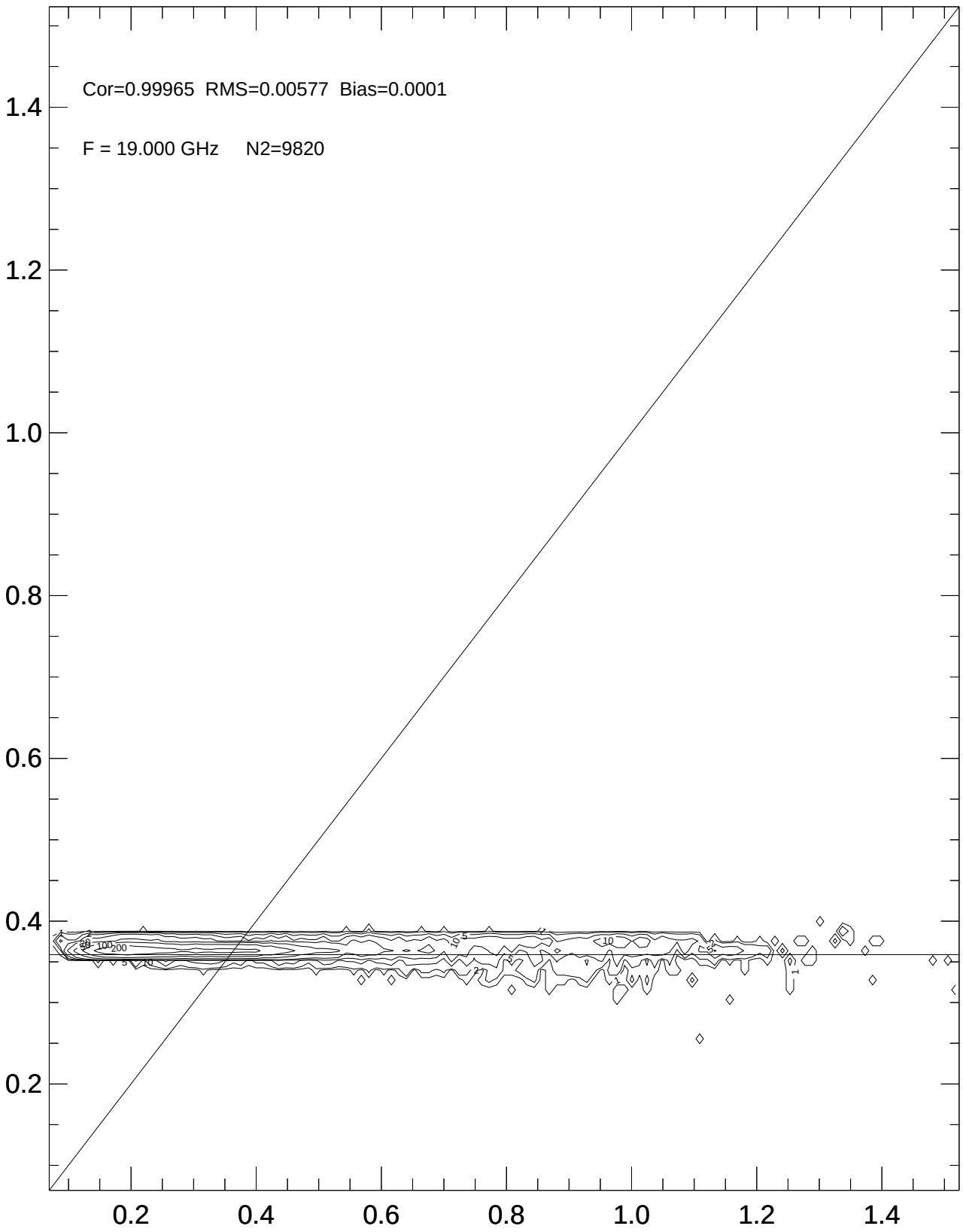

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.2
0.4
0.6
0.8
1.0
1.2
1.4

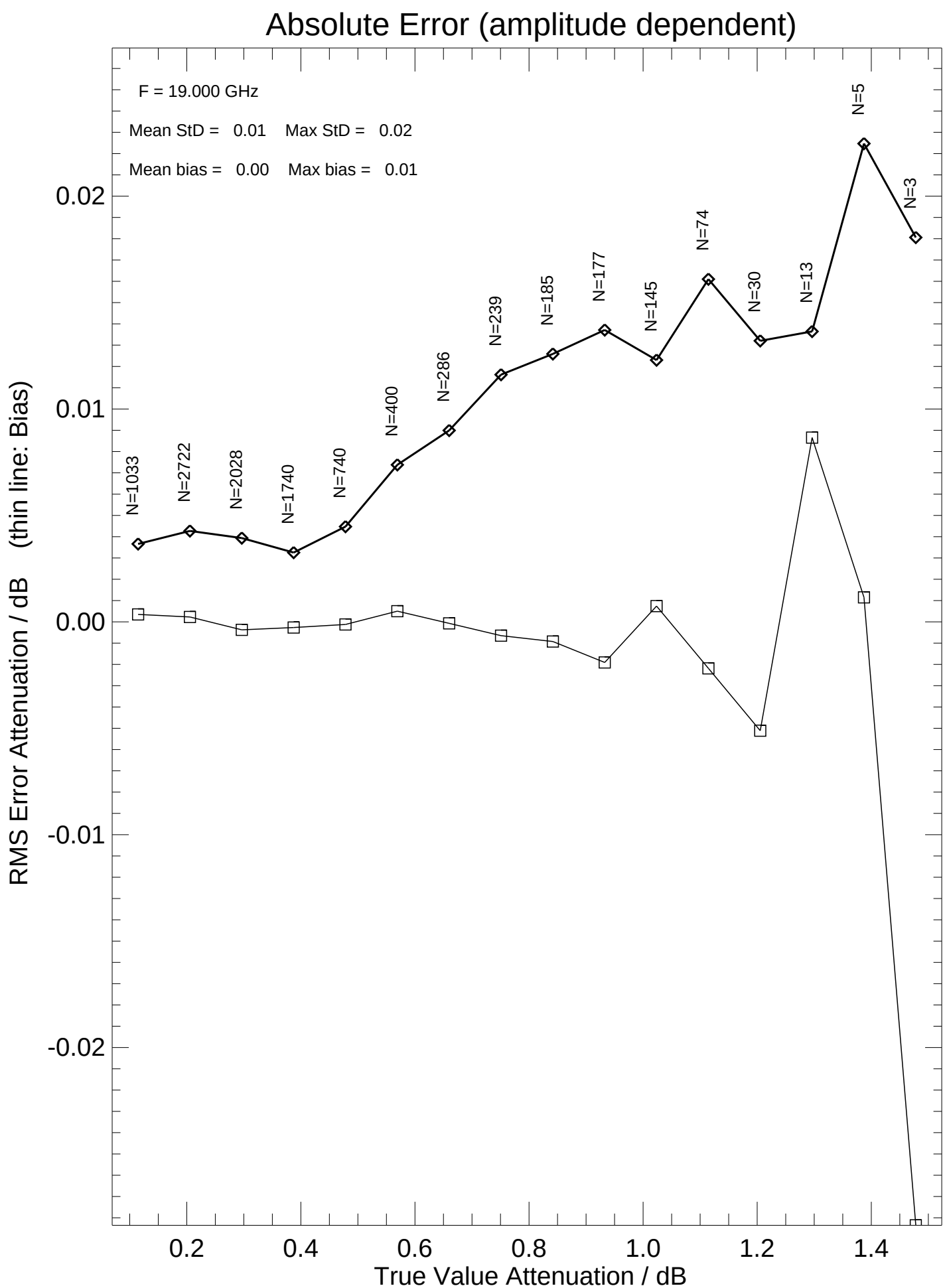

Cor=0.99963 RMS=0.00559 Bias=0.0001
F = 18.700 GHz N2=9820
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.2
0.4
0.6
0.8
1.0
1.2
1.4

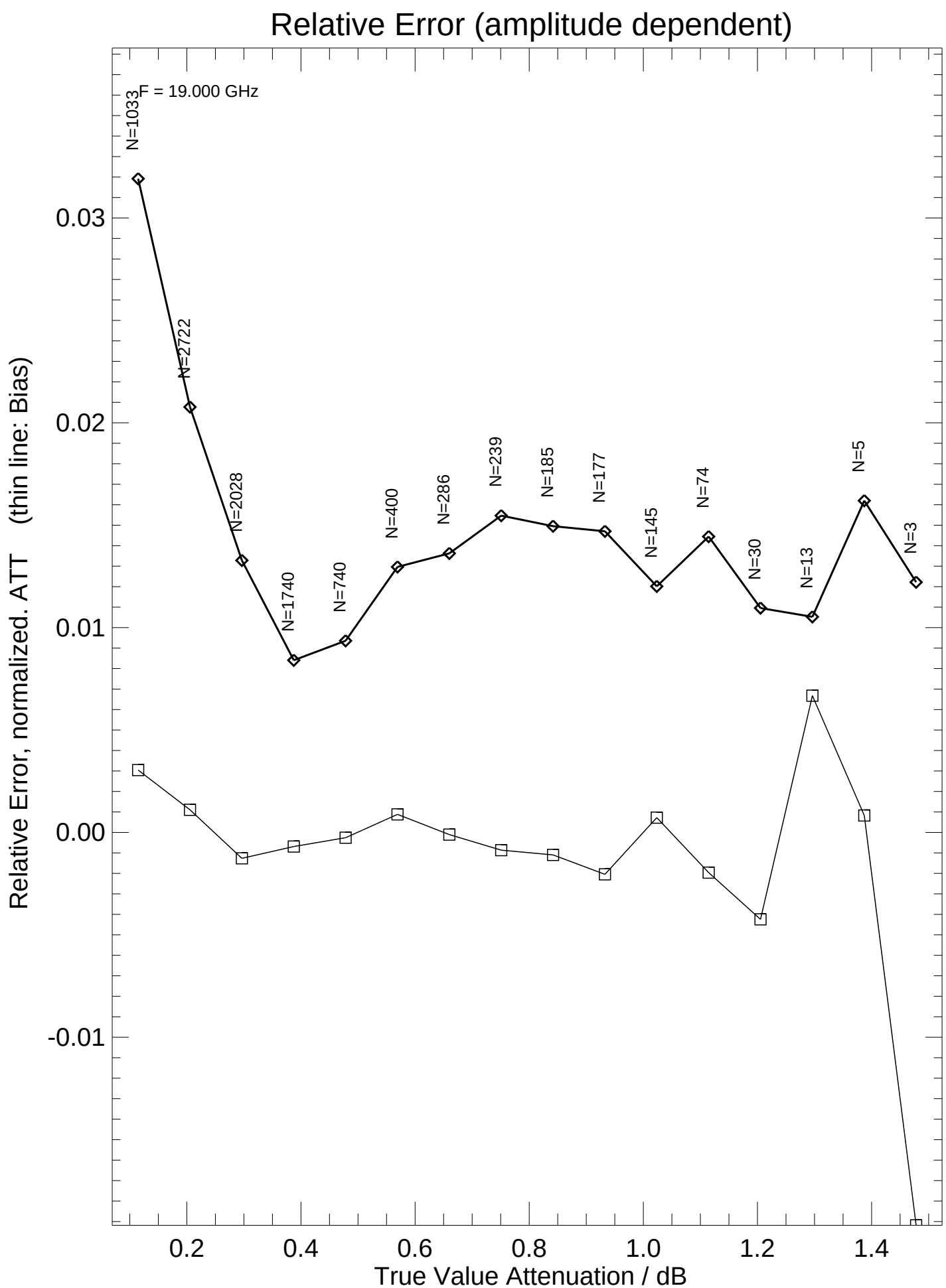

Absolute Error (amplitude dependent)
F = 18.700 GHz
Mean StD = 0.01 Max StD = 0.02
Mean bias = 0.00 Max bias = 0.01
N=1204
N=2850
N=2125
N=1572
N=588
N=381
N=269
N=226
N=183
N=178
N=126
N=74
N=24
N=11
N=6
N=3
0.02
0.01
0.00
-0.01
-0.02
RMS Error Attenuation / dB (thin line: Bias)
0.2
0.4
0.6
0.8
1.0
1.2
1.4
True Value Attenuation / dB

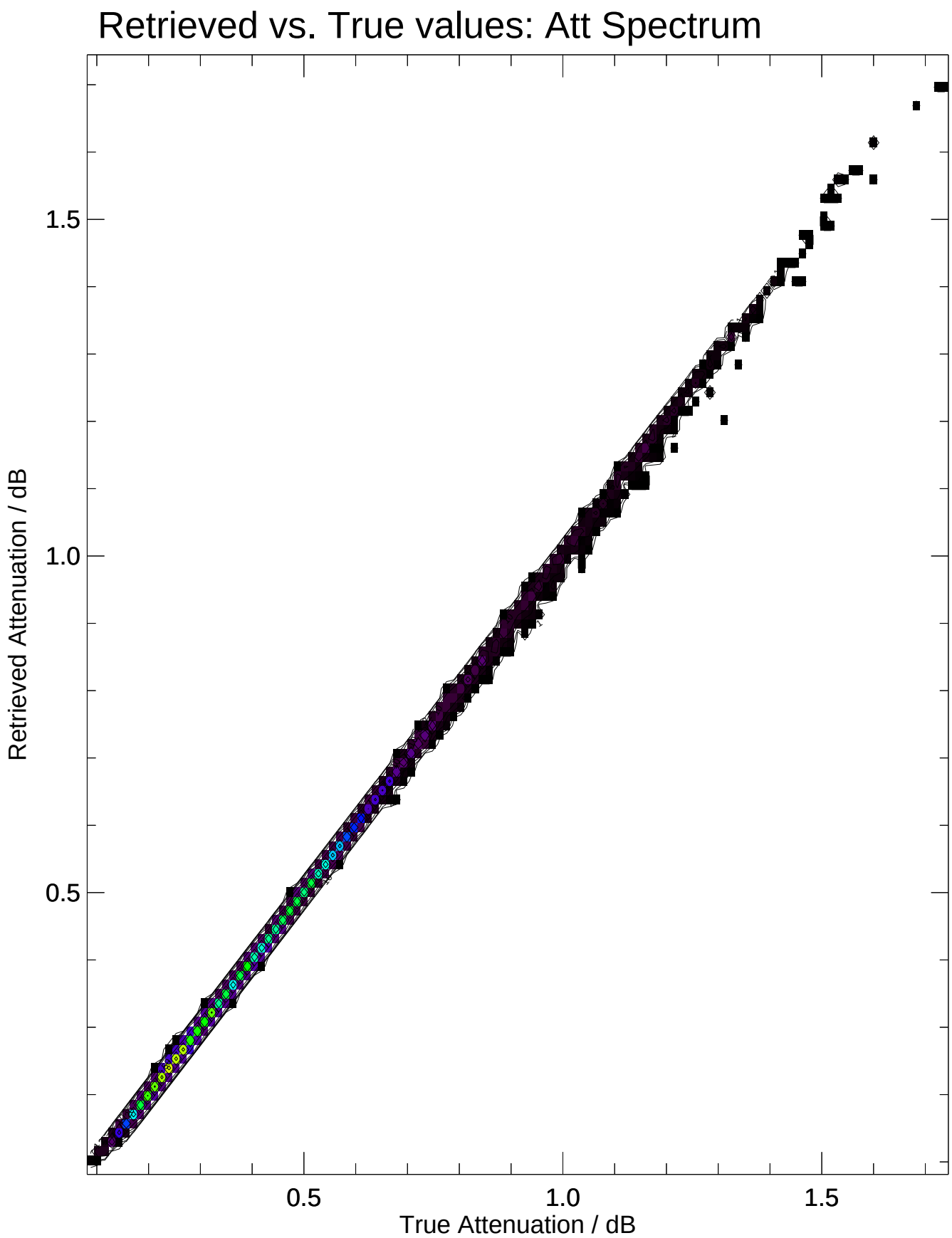

Relative Error (amplitude dependent)
F = 18.700 GHz
N=1204
N=2850
N=2125
N=1572
N=588
N=381
N=269
N=226
N=183
N=178
N=126
N=74
N=24
N=11
N=6
N=3
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
0.2
0.4
0.6
0.8
1.0
1.2
1.4
True Value Attenuation / dB

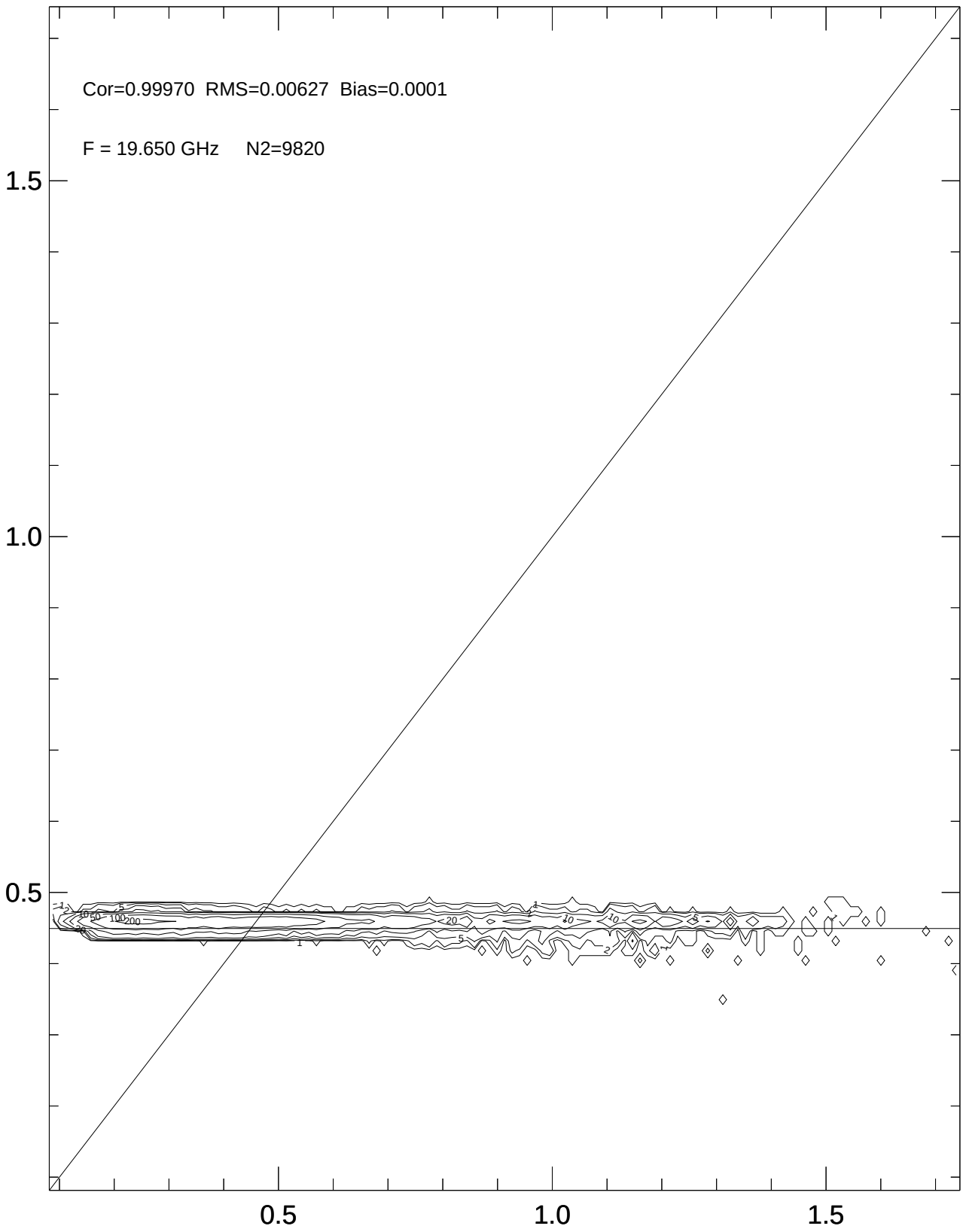

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.2
0.4
0.6
0.8
1.0
1.2
1.4

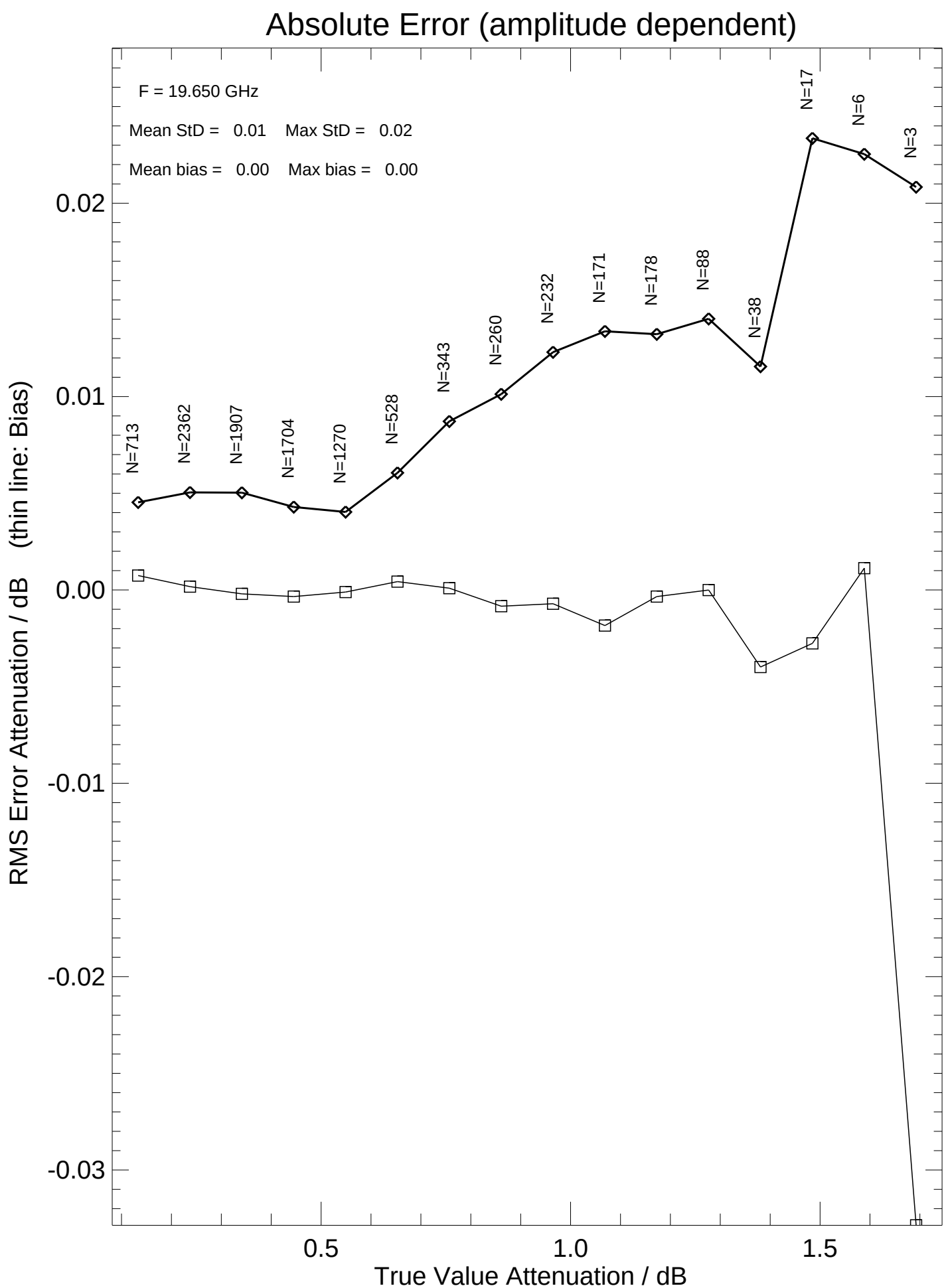

Cor=0.99965 RMS=0.00577 Bias=0.0001
F = 19.000 GHz N2=9820
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.2
0.4
0.6
0.8
1.0
1.2
1.4

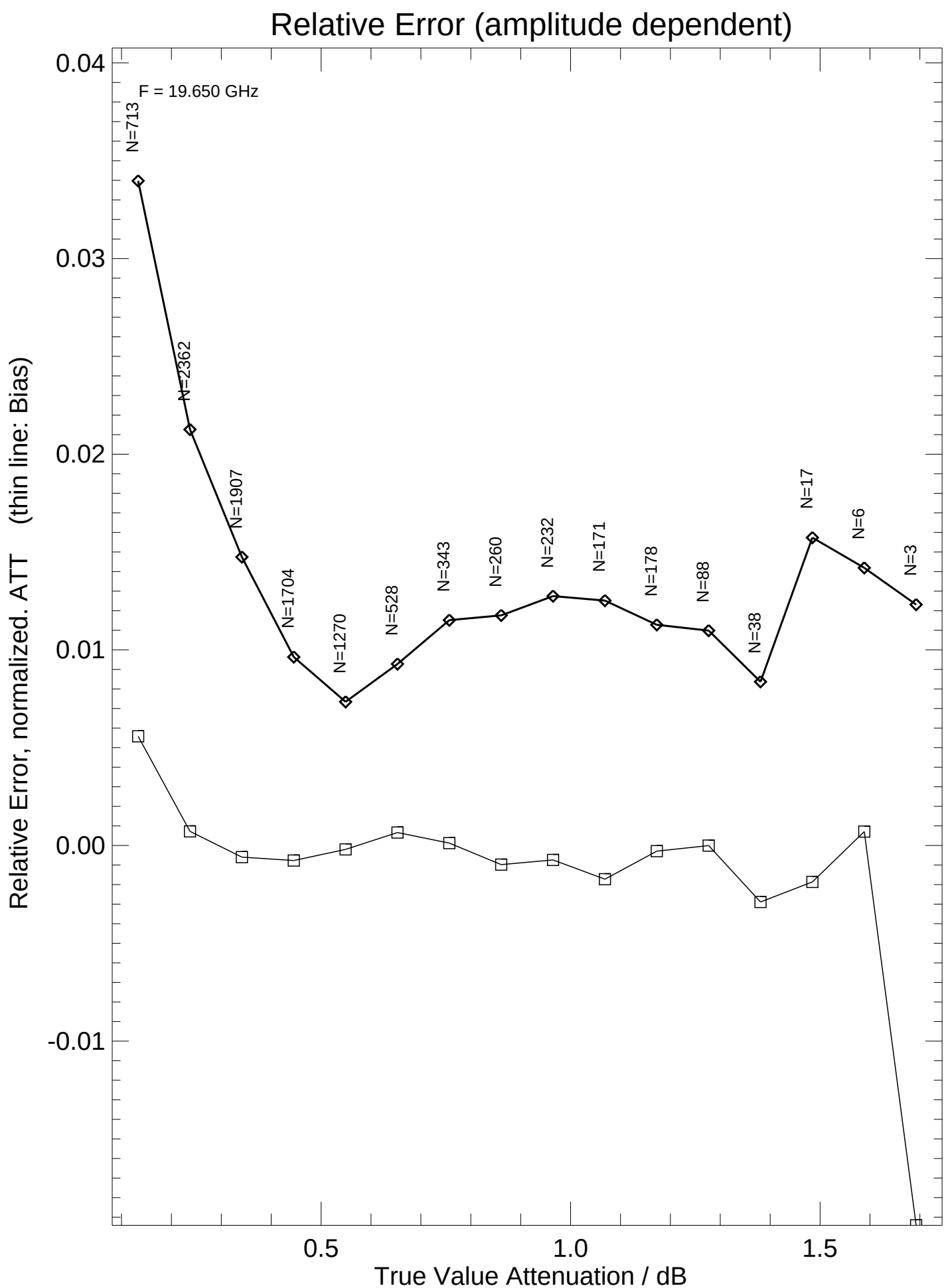

Absolute Error (amplitude dependent)
F = 19.000 GHz
Mean StD = 0.01 Max StD = 0.02
Mean bias = 0.00 Max bias = 0.01
N=1033
N=2722
N=2028
N=1740
N=740
N=400
N=286
N=239
N=185
N=177
N=145
N=74
N=30
N=13
N=5
N=3
0.02
0.01
0.00
-0.01
-0.02
RMS Error Attenuation / dB (thin line: Bias)
0.2
0.4
0.6
0.8
1.0
1.2
1.4
True Value Attenuation / dB

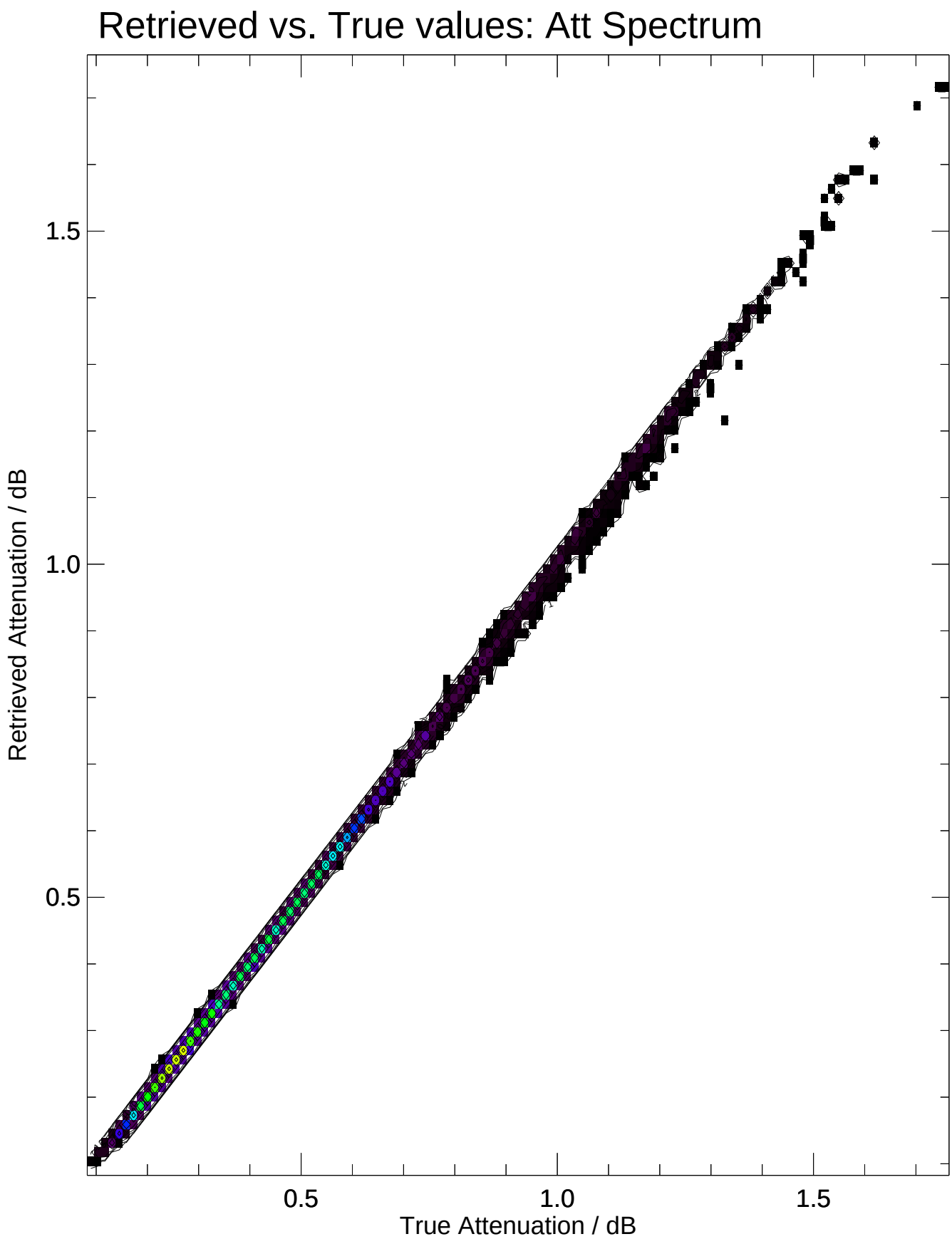

Relative Error (amplitude dependent)
F = 19.000 GHz
N=1033
N=2722
N=2028
N=1740
N=740
N=400
N=286
N=239
N=185
N=177
N=145
N=74
N=30
N=13
N=5
N=3
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
0.2
0.4
0.6
0.8
1.0
1.2
1.4
True Value Attenuation / dB

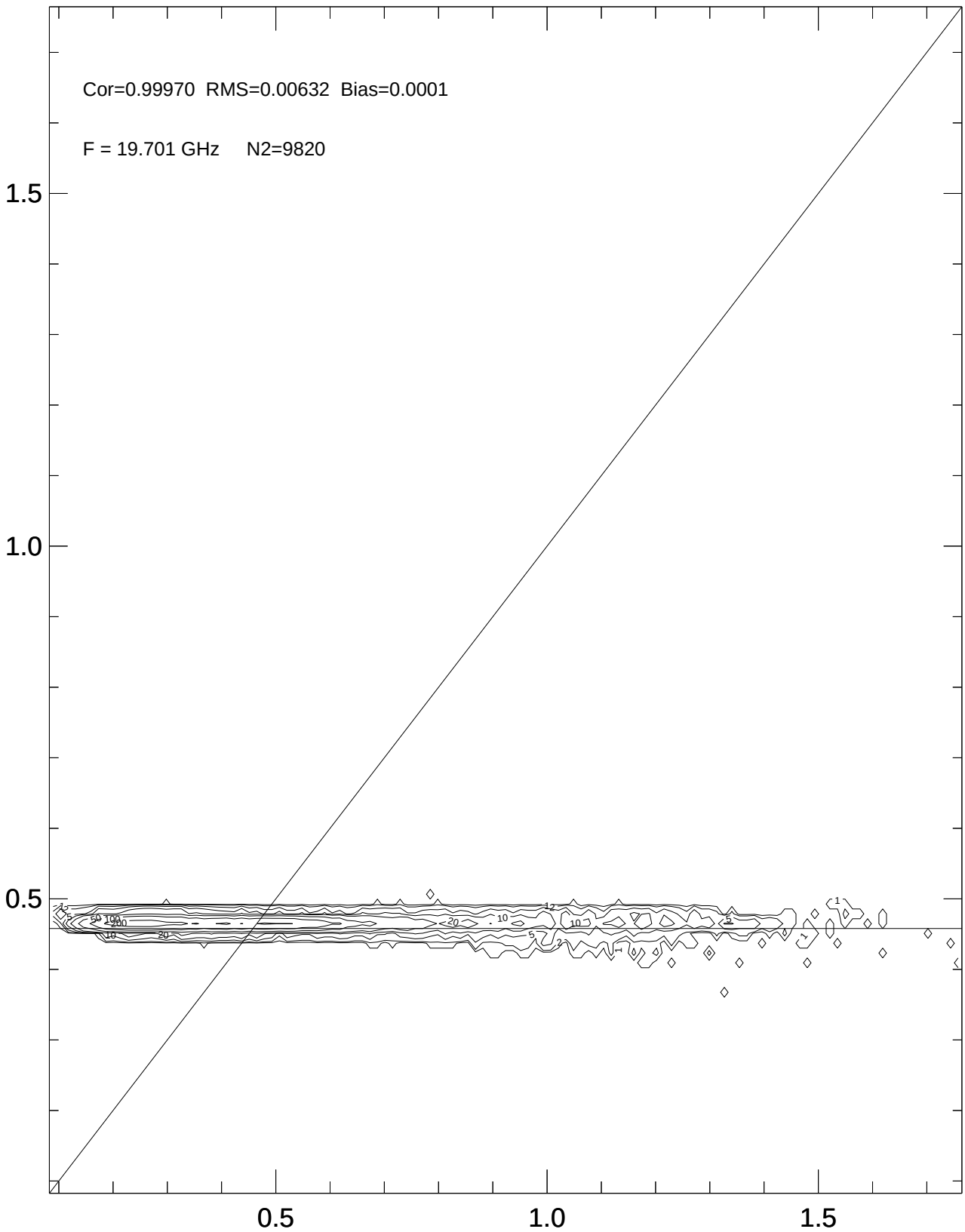

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
0.5
1.0
1.5

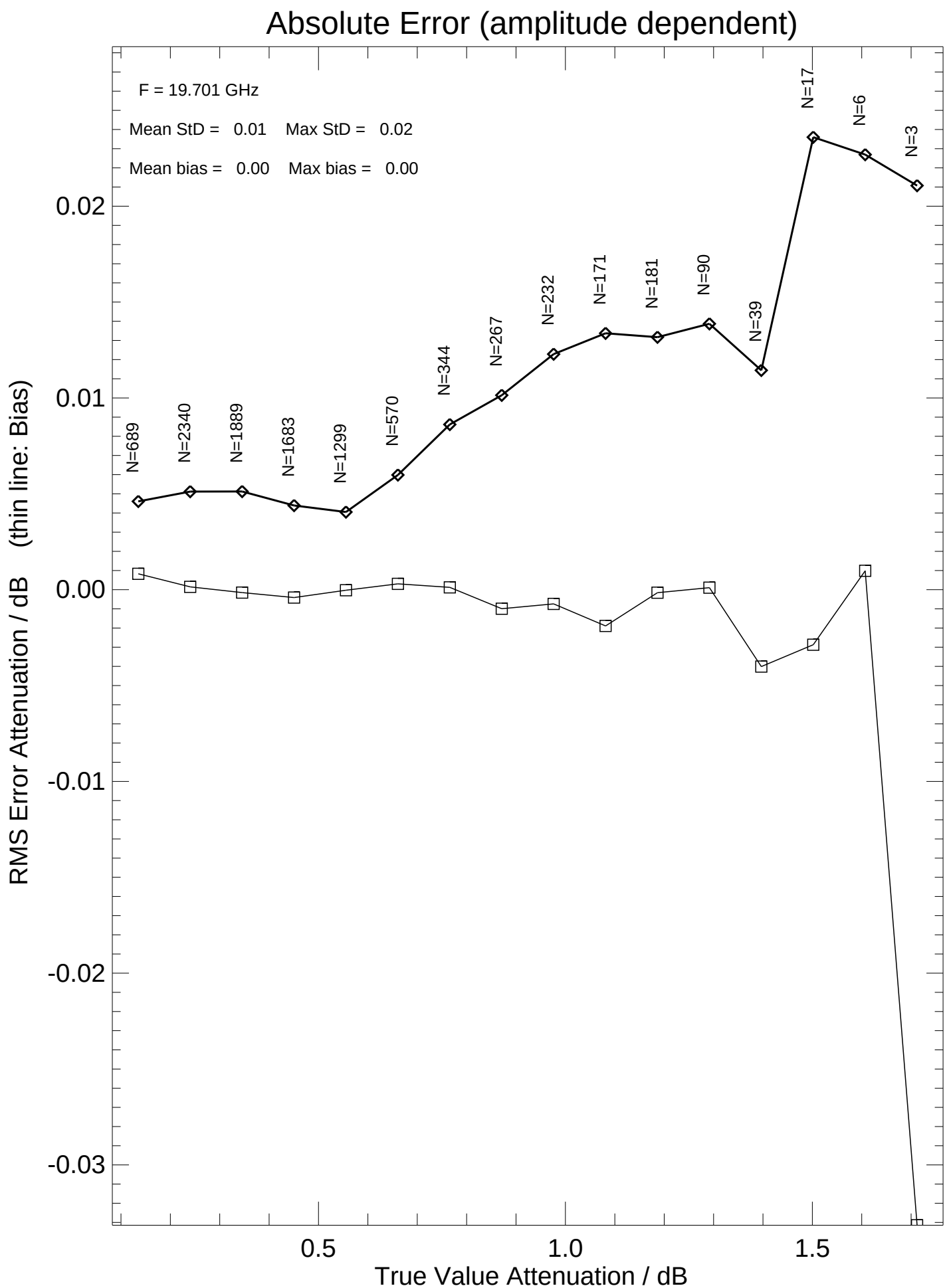

Cor=0.99970 RMS=0.00627 Bias=0.0001
F = 19.650 GHz N2=9820
1.5
1.0
0.5
0.5
1.0
1.5

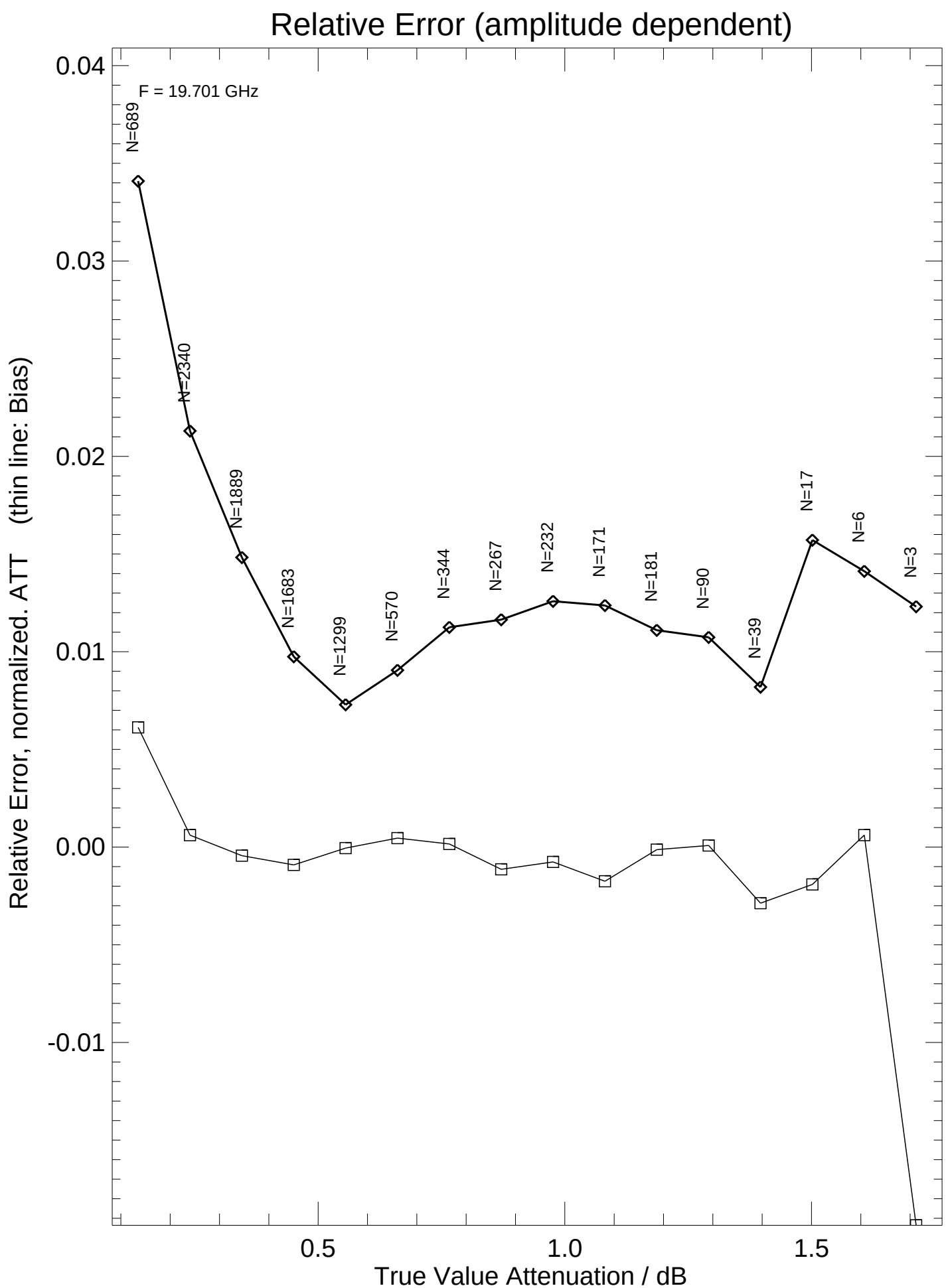

Absolute Error (amplitude dependent)
F = 19.650 GHz
Mean StD = 0.01 Max StD = 0.02
Mean bias = 0.00 Max bias = 0.00
N=713
N=2362
N=1907
N=1704
N=1270
N=528
N=343
N=260
N=232
N=171
N=178
N=88
N=38
N=17
N=6
N=3
0.02
0.01
0.00
-0.01
-0.02
-0.03
RMS Error Attenuation / dB (thin line: Bias)
0.5
1.0
1.5
True Value Attenuation / dB

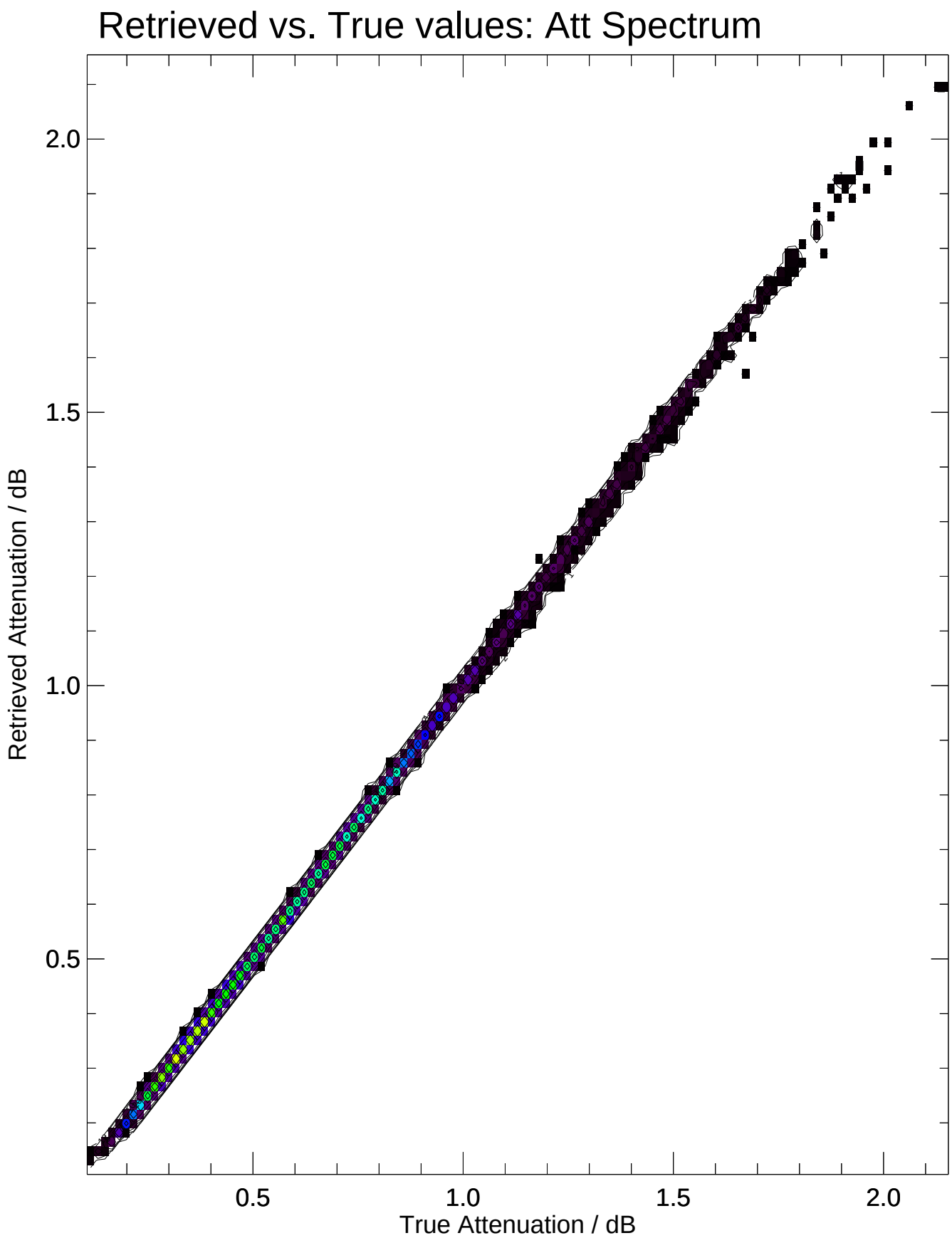

Relative Error (amplitude dependent)
F = 19.650 GHz
N=713
N=2362
N=1907
N=1704
N=1270
N=528
N=343
N=260
N=232
N=171
N=178
N=88
N=38
N=17
N=6
N=3
0.04
0.03
0.02
0.01
0.00
-0.01
0.5
1.0
1.5
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

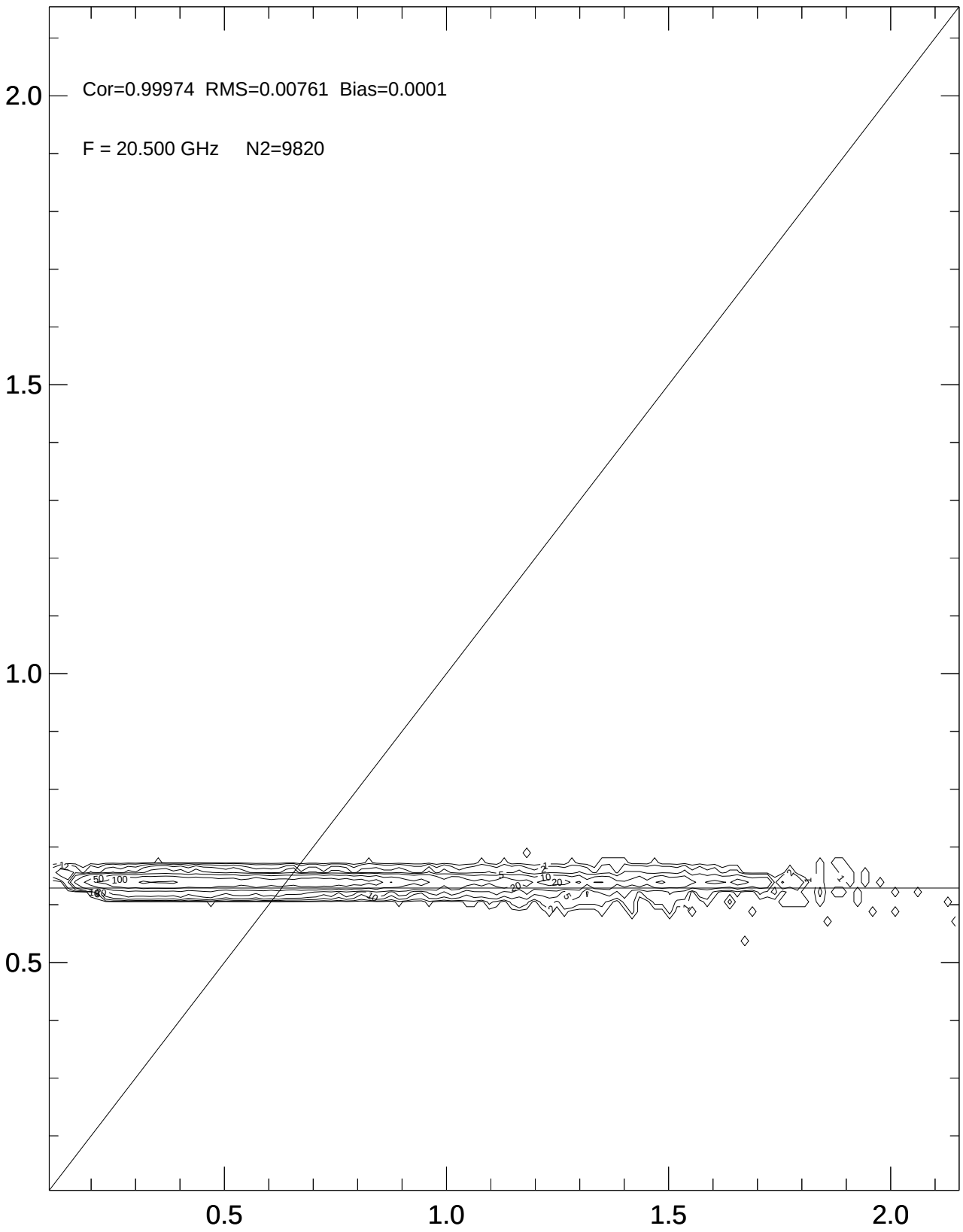

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
1.5
1.0
0.5
0.5
1.0
1.5
True Attenuation / dB

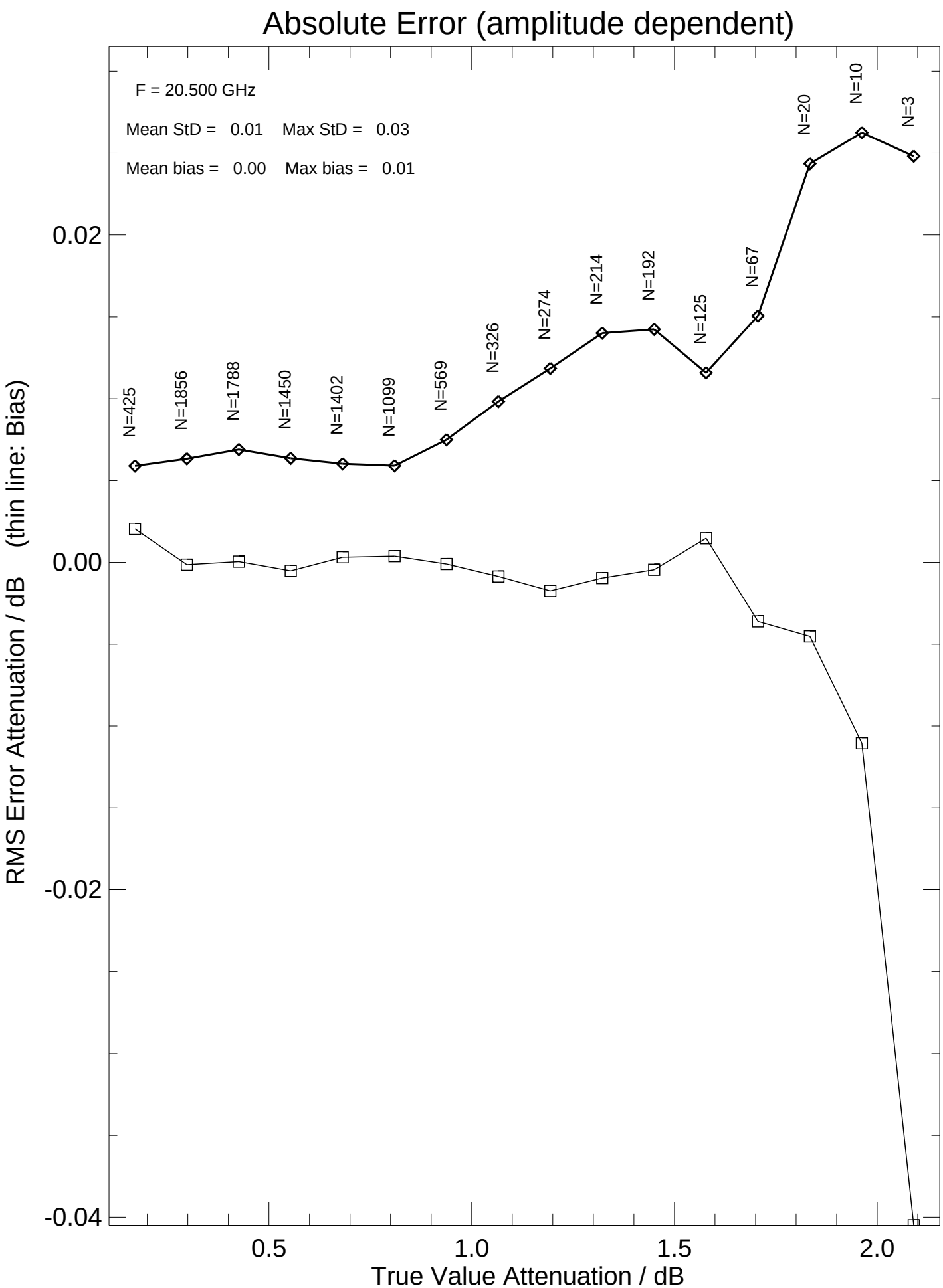

Cor=0.99970 RMS=0.00632 Bias=0.0001
F = 19.701 GHz N2=9820
1.5
1.0
0.5
0.5
1.0
1.5

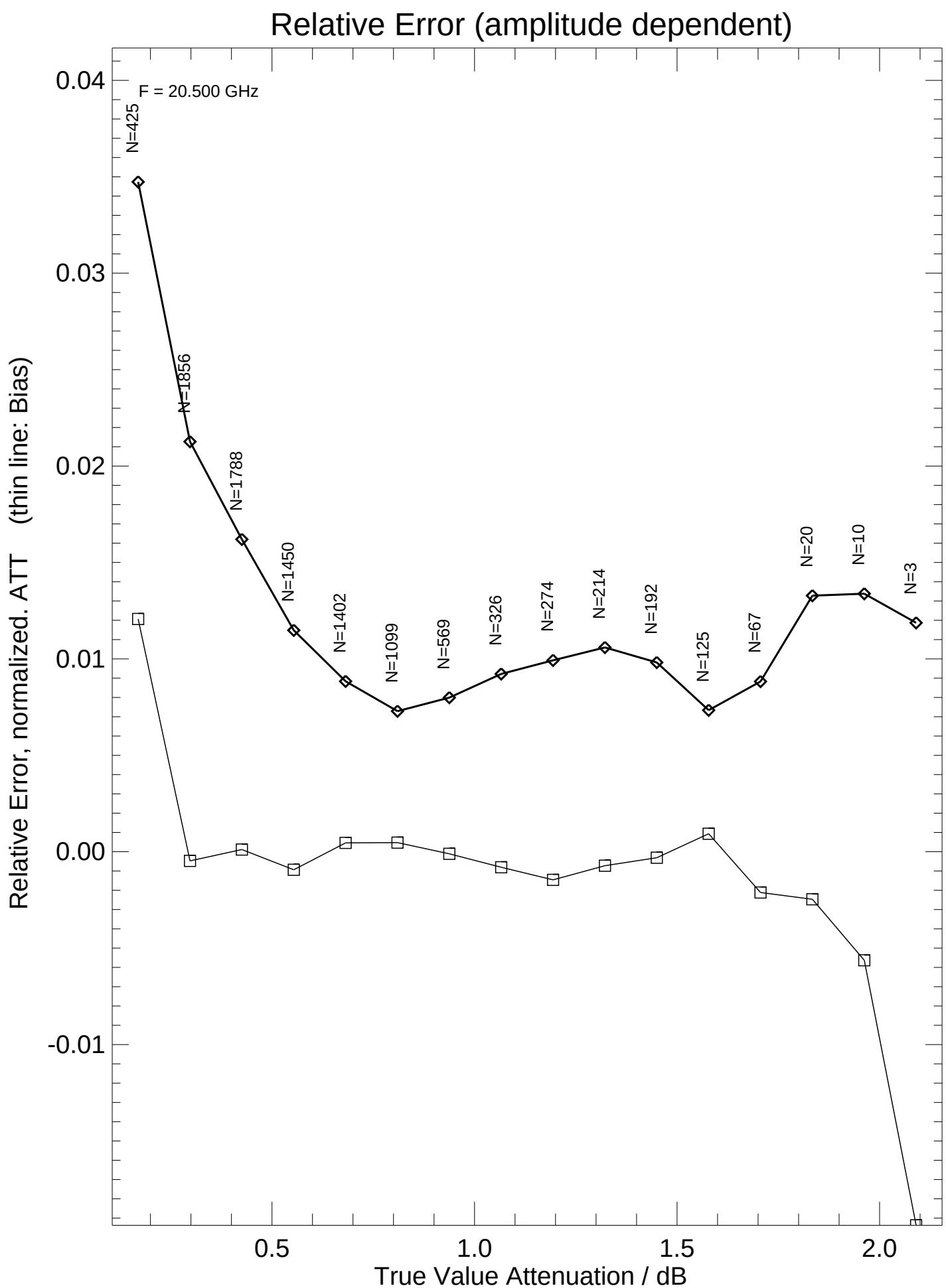

Absolute Error (amplitude dependent)
F = 19.701 GHz
Mean StD = 0.01 Max StD = 0.02
Mean bias = 0.00 Max bias = 0.00
N=689
N=2340
N=1889
N=1683
N=1299
N=570
N=344
N=267
N=232
N=171
N=181
N=90
N=39
N=17
N=6
N=3
0.02
0.01
0.00
-0.01
-0.02
-0.03
RMS Error Attenuation / dB (thin line: Bias)
0.5
1.0
1.5
True Value Attenuation / dB

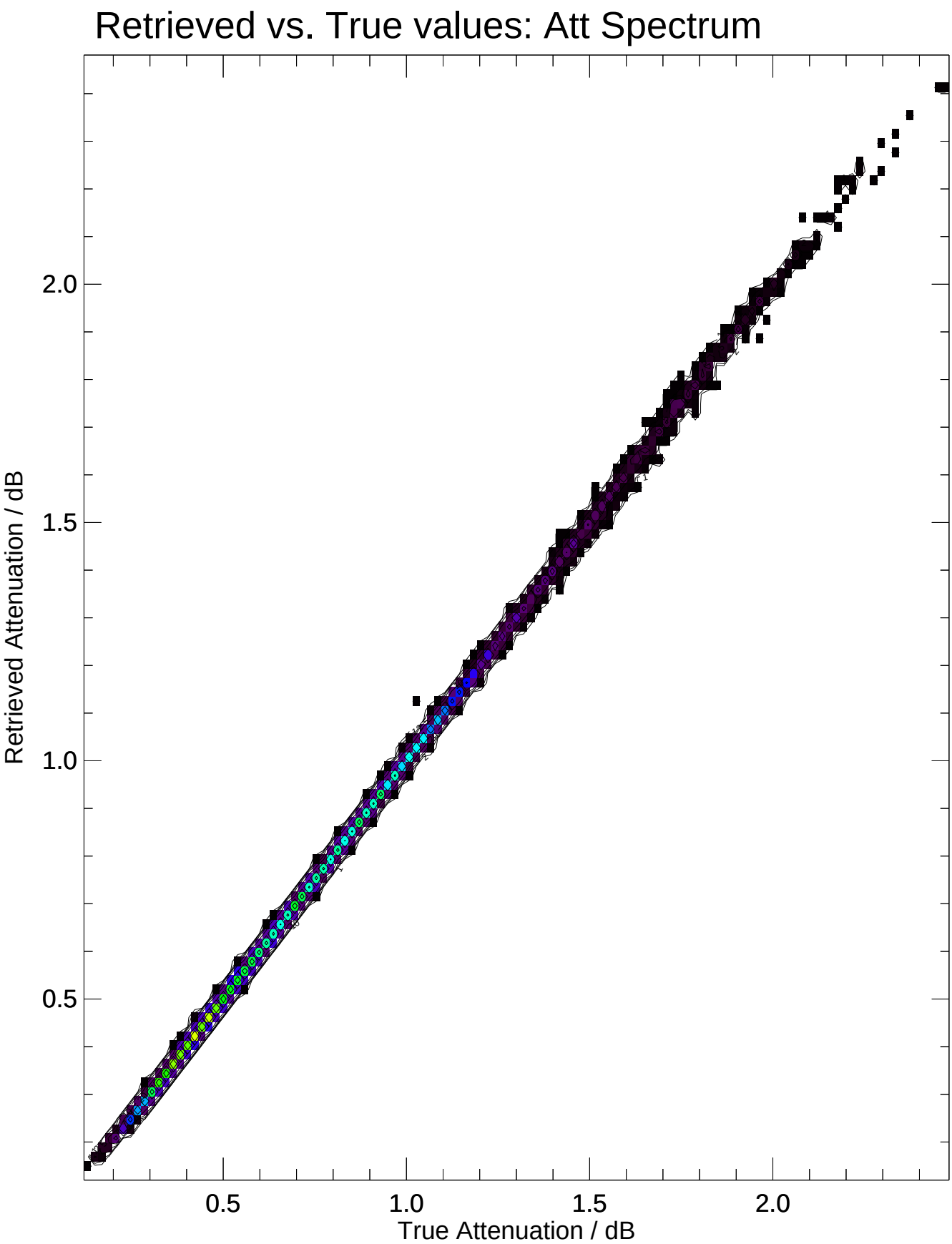

Relative Error (amplitude dependent)
F = 19.701 GHz
N=689
N=2340
N=1889
N=1683
N=1299
N=570
N=344
N=267
N=232
N=171
N=181
N=90
N=39
N=17
N=6
N=3
0.04
0.03
0.02
0.01
0.00
-0.01
0.5
1.0
1.5
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

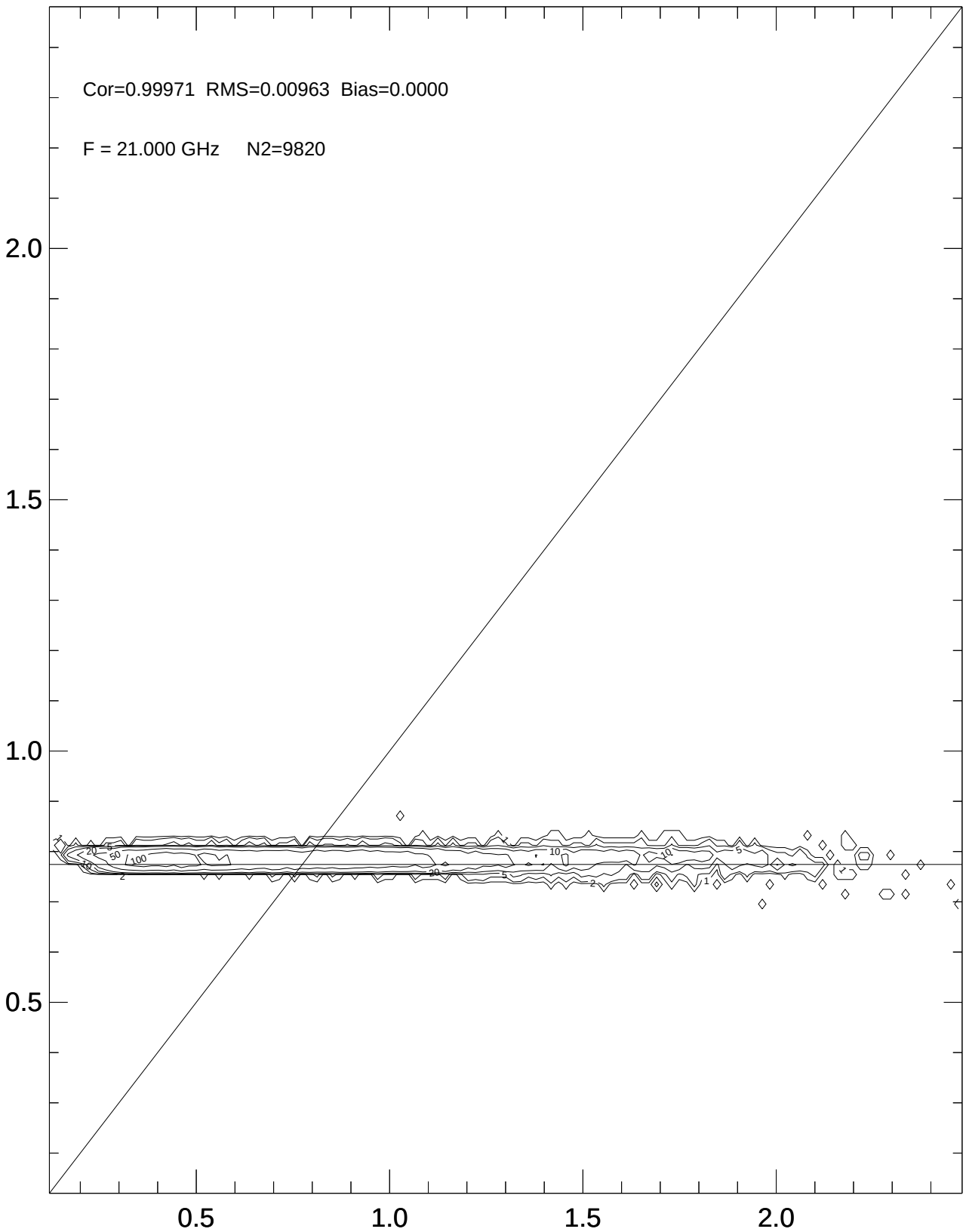

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
0.5
1.0
1.5
2.0

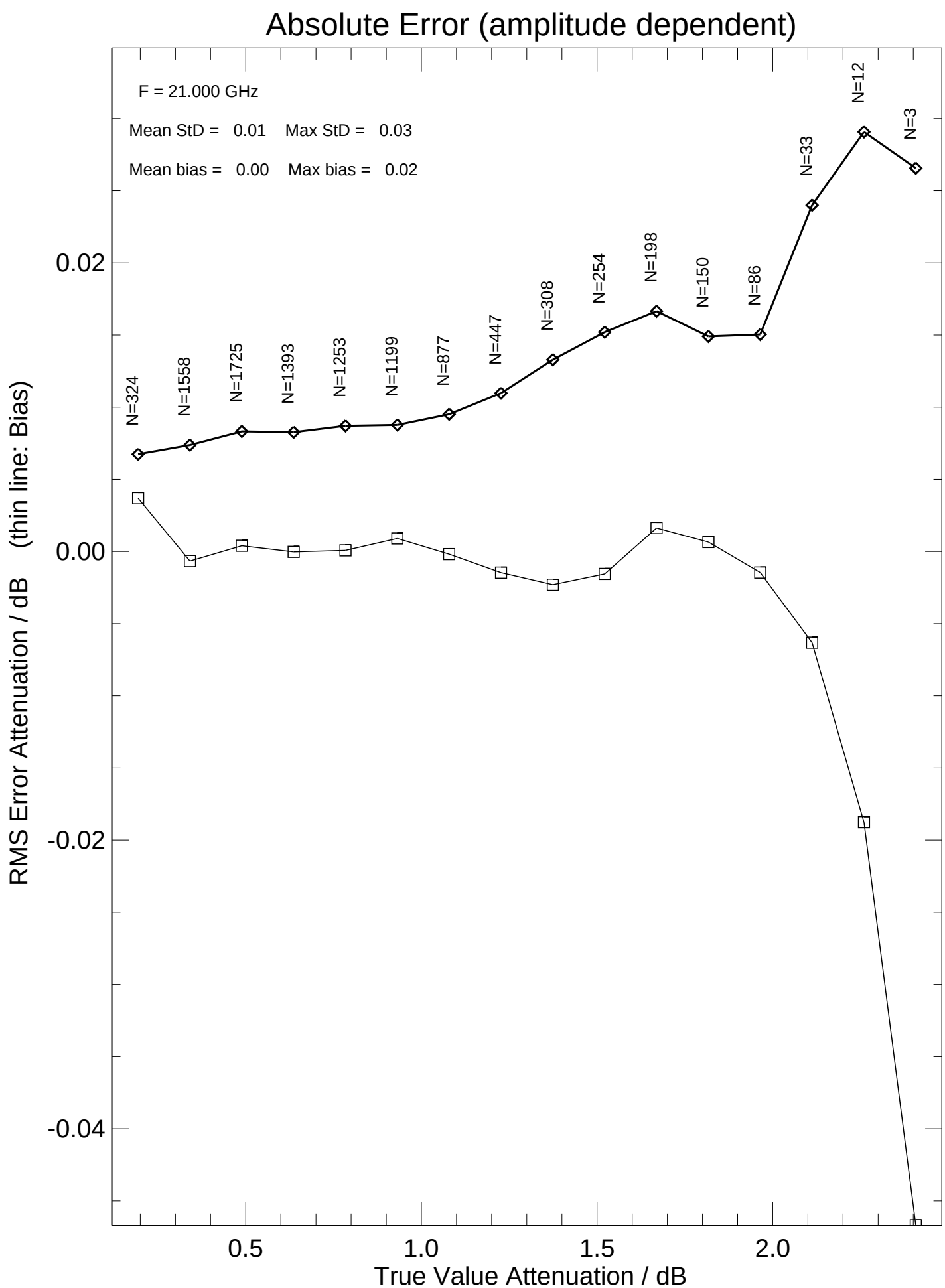

Cor=0.99974 RMS=0.00761 Bias=0.0001
F = 20.500 GHz N2=9820
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0

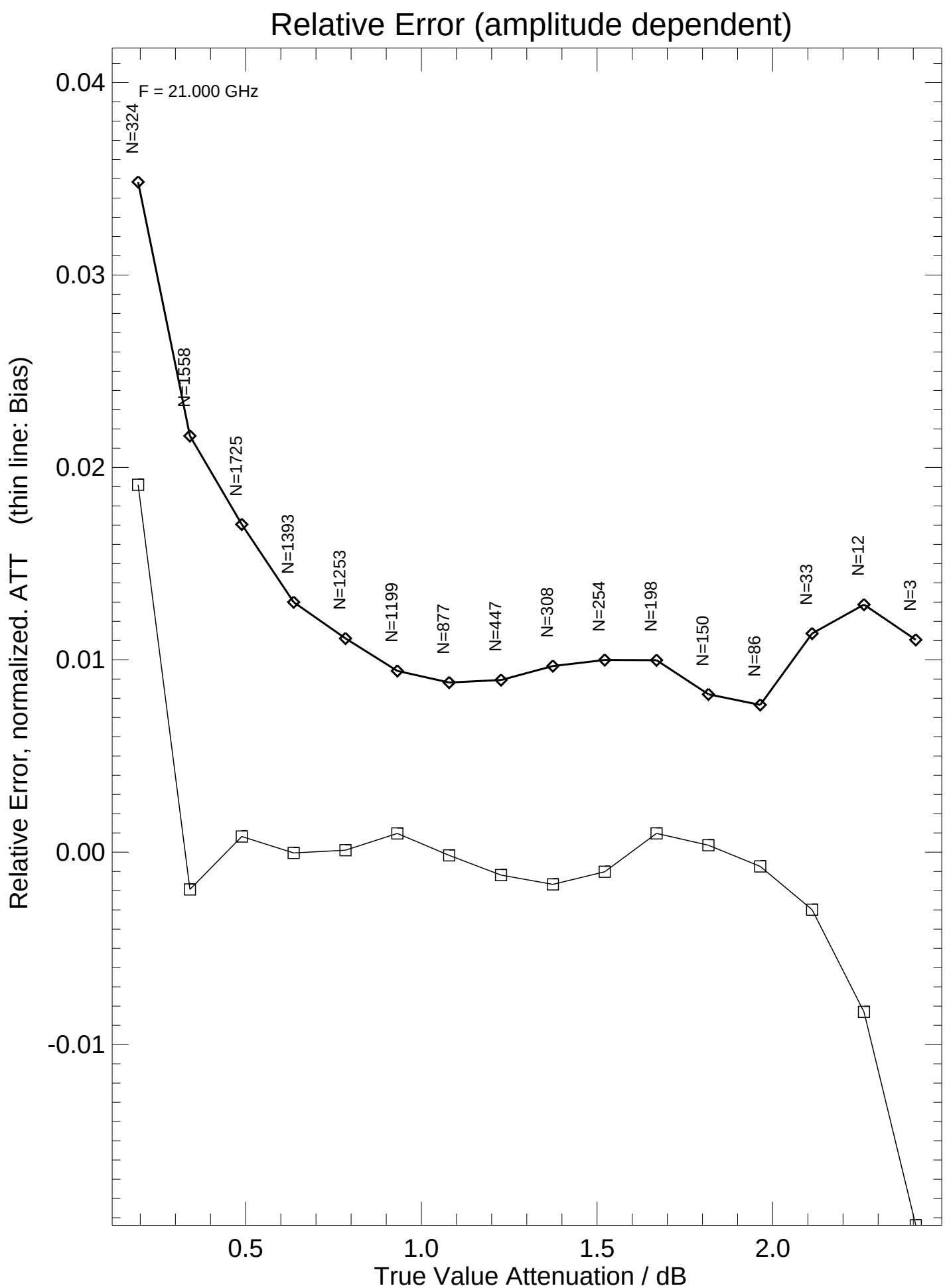

Absolute Error (amplitude dependent)
F = 20.500 GHz
Mean StD = 0.01 Max StD = 0.03
Mean bias = 0.00 Max bias = 0.01
N=425
N=1856
N=1788
N=1450
N=1402
N=1099
N=569
N=326
N=274
N=214
N=192
N=125
N=67
N=20
N=10
N=3
0.02
0.00
-0.02
-0.04
0.5
1.0
1.5
2.0
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

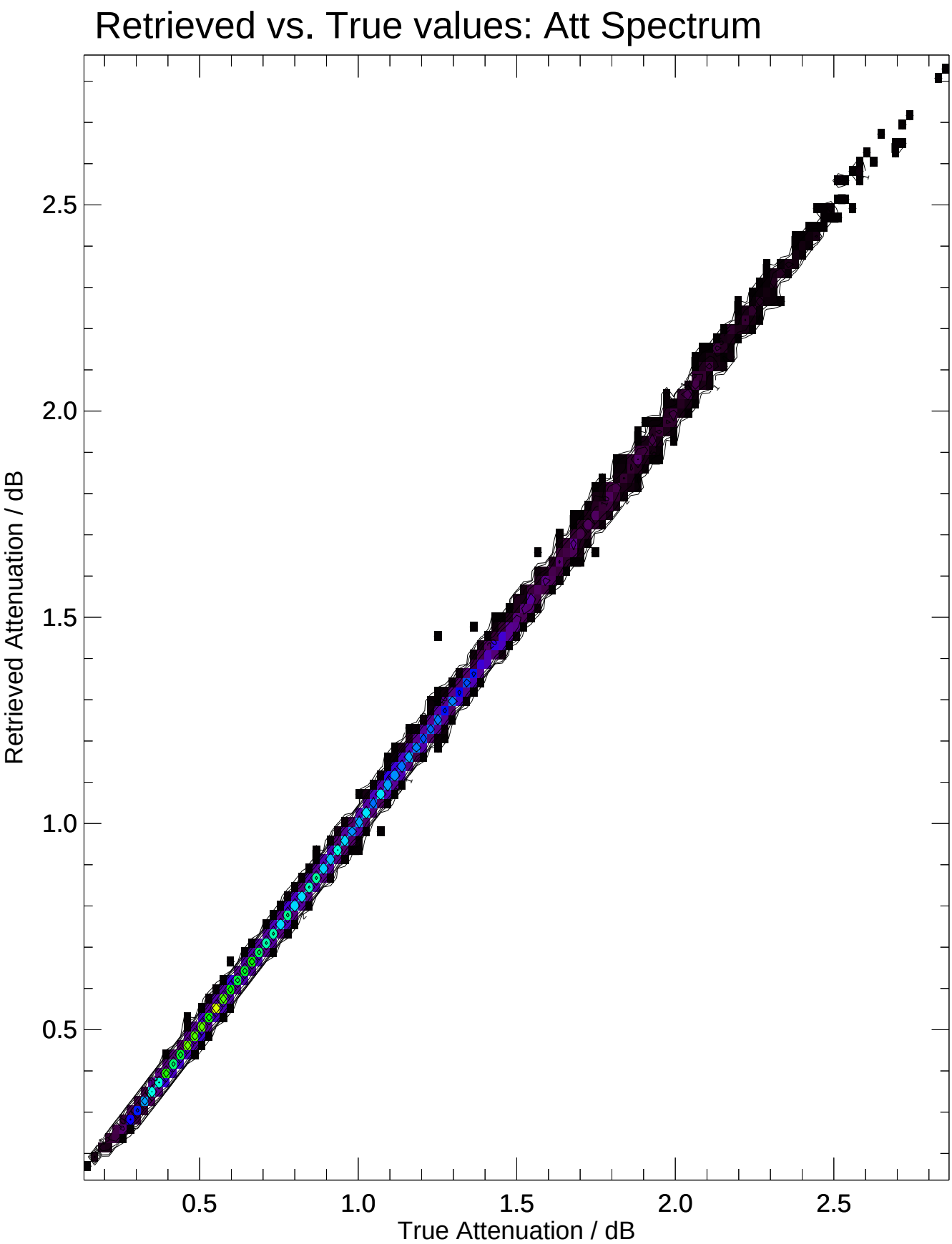

Relative Error (amplitude dependent)
F = 20.500 GHz
N=425
N=1856
N=1788
N=1450
N=1402
N=1099
N=569
N=326
N=274
N=214
N=192
N=125
N=67
N=20
N=10
N=3
0.04
0.03
0.02
0.01
0.00
-0.01
0.5
1.0
1.5
2.0
True Value Attenuation / dB
Relative Error, normalized. ATT (thin line: Bias)

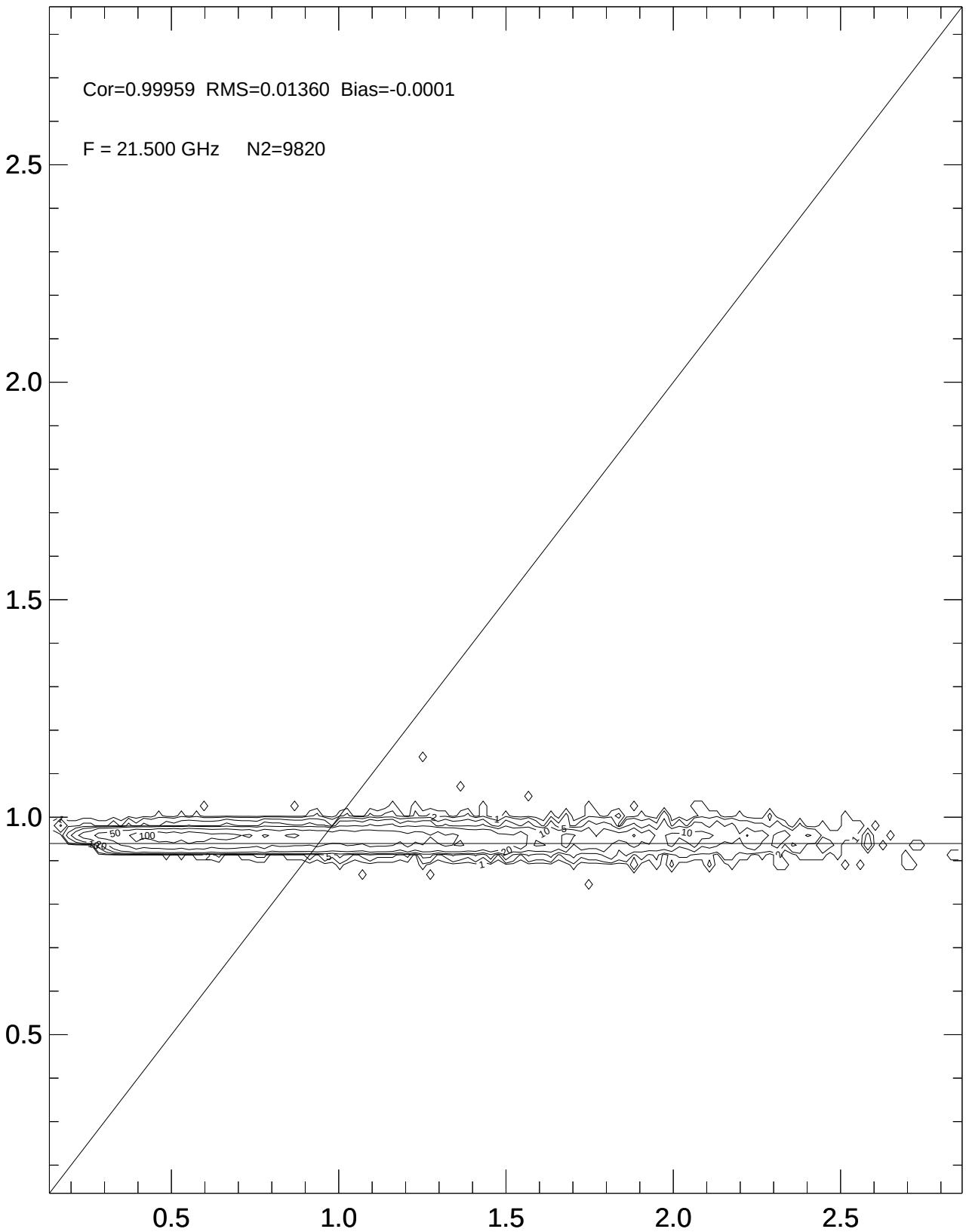

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
0.5
1.0
1.5
2.0

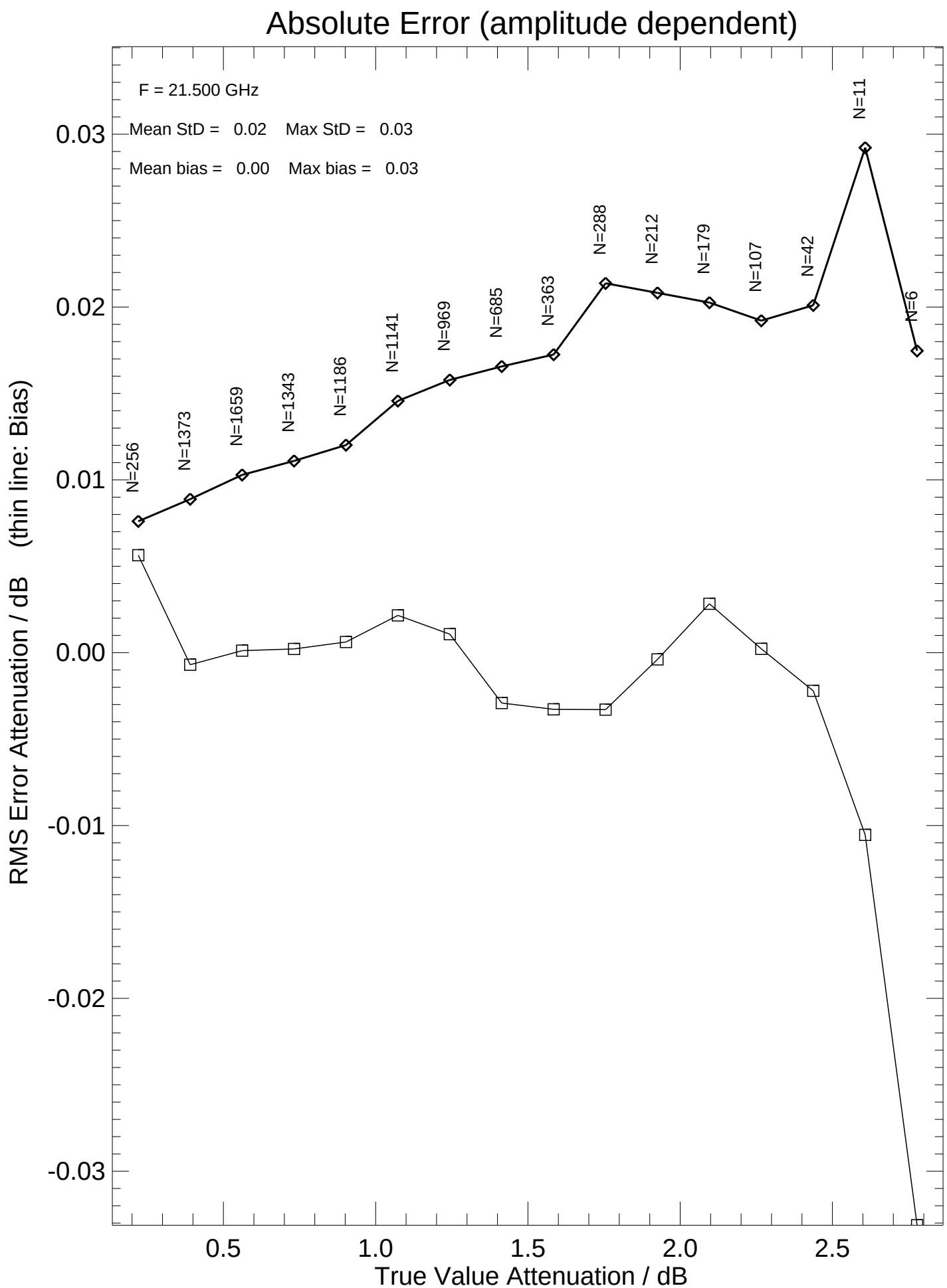

Cor=0.99971 RMS=0.00963 Bias=0.0000
F = 21.000 GHz N2=9820
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0

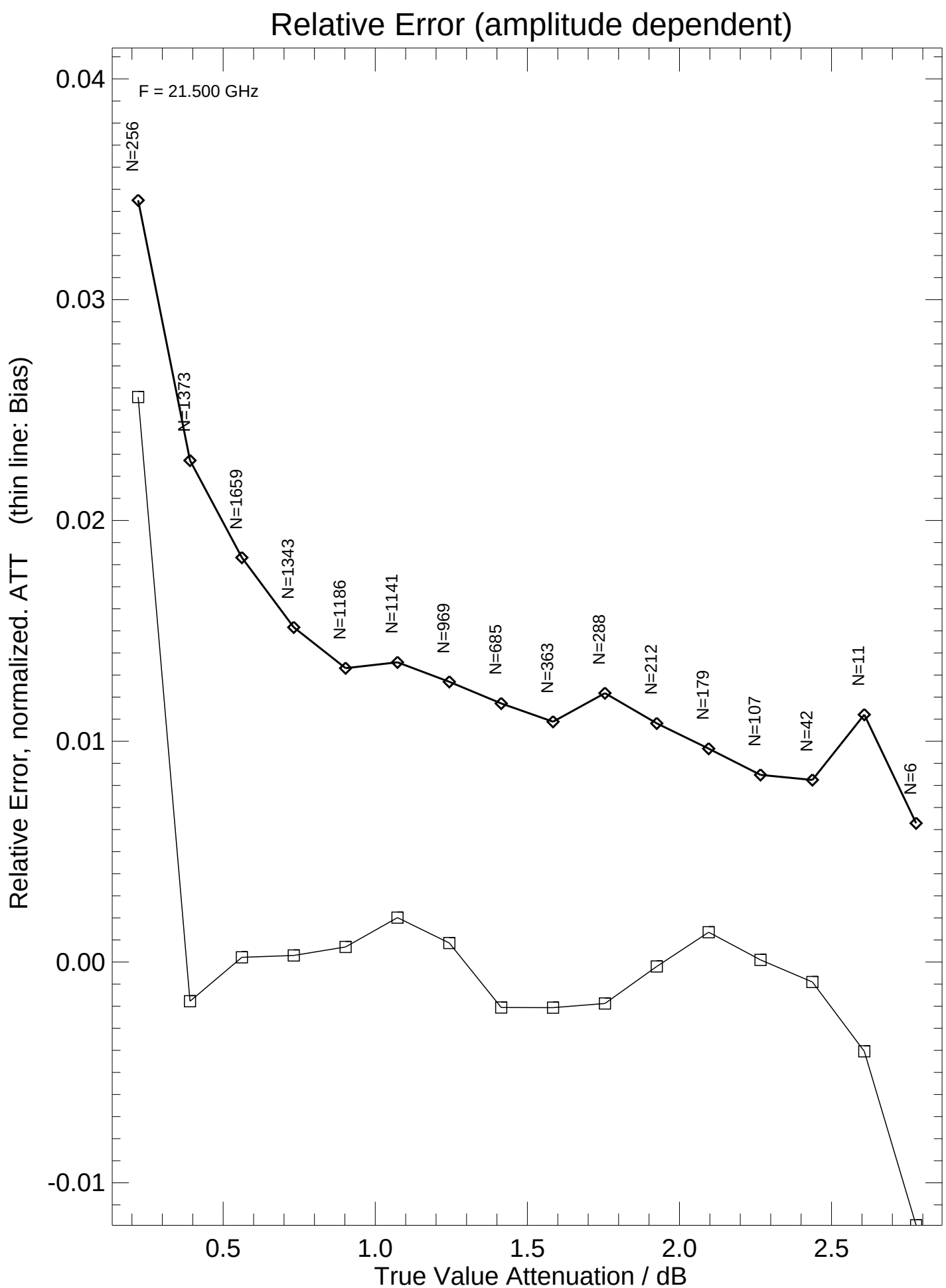

Absolute Error (amplitude dependent)
F = 21.000 GHz
Mean StD = 0.01 Max StD = 0.03
Mean bias = 0.00 Max bias = 0.02
N=324
N=1558
N=1725
N=1393
N=1253
N=1199
N=877
N=447
N=308
N=254
N=198
N=150
N=86
N=33
N=12
N=3
0.02
0.00
-0.02
-0.04
RMS Error Attenuation / dB (thin line: Bias)
0.5
1.0
1.5
2.0
True Value Attenuation / dB

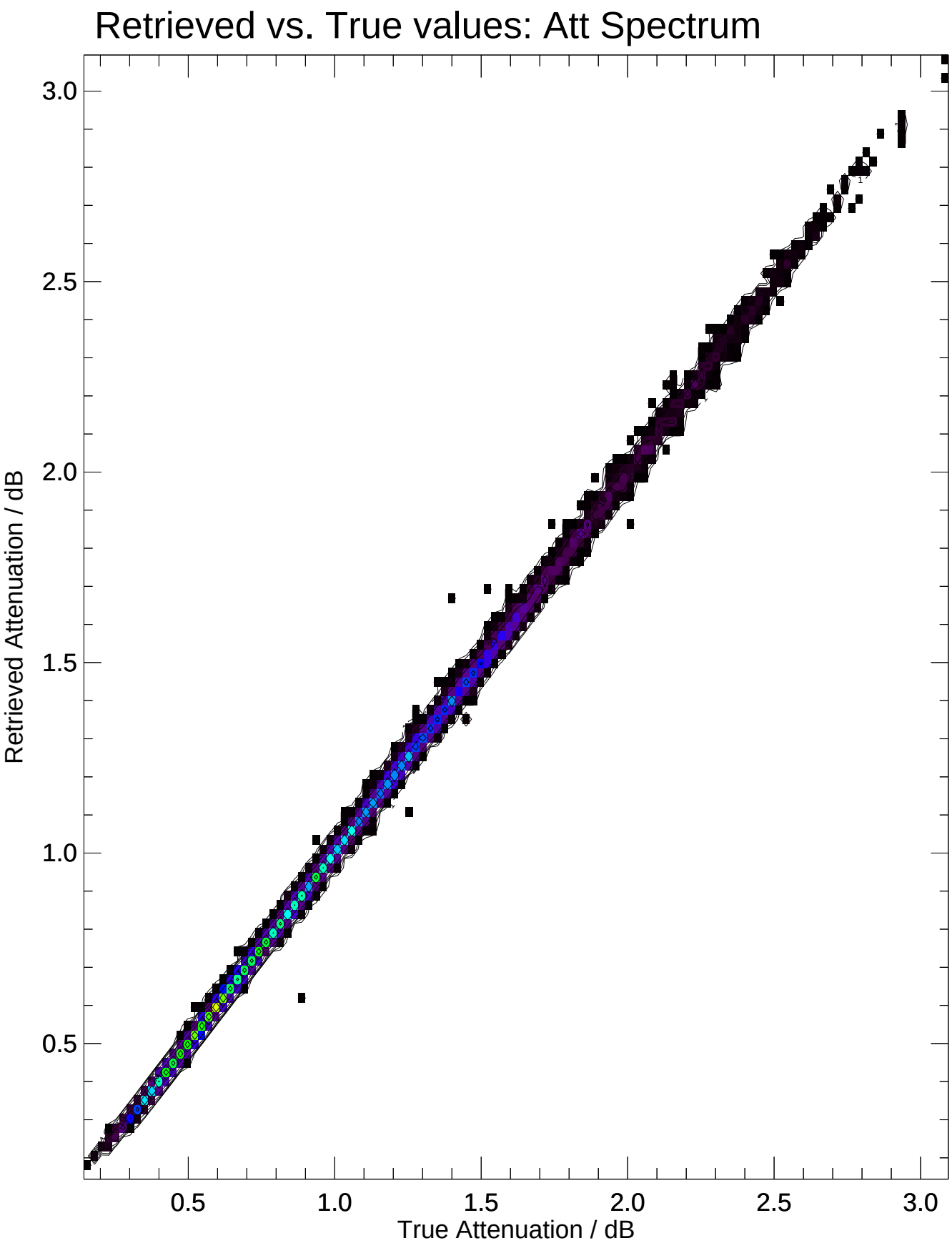

Relative Error (amplitude dependent)
F = 21.000 GHz
N=324
N=1558
N=1725
N=1393
N=1253
N=1199
N=877
N=447
N=308
N=254
N=198
N=150
N=86
N=33
N=12
N=3
0.04
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
0.5
1.0
1.5
2.0
True Value Attenuation / dB

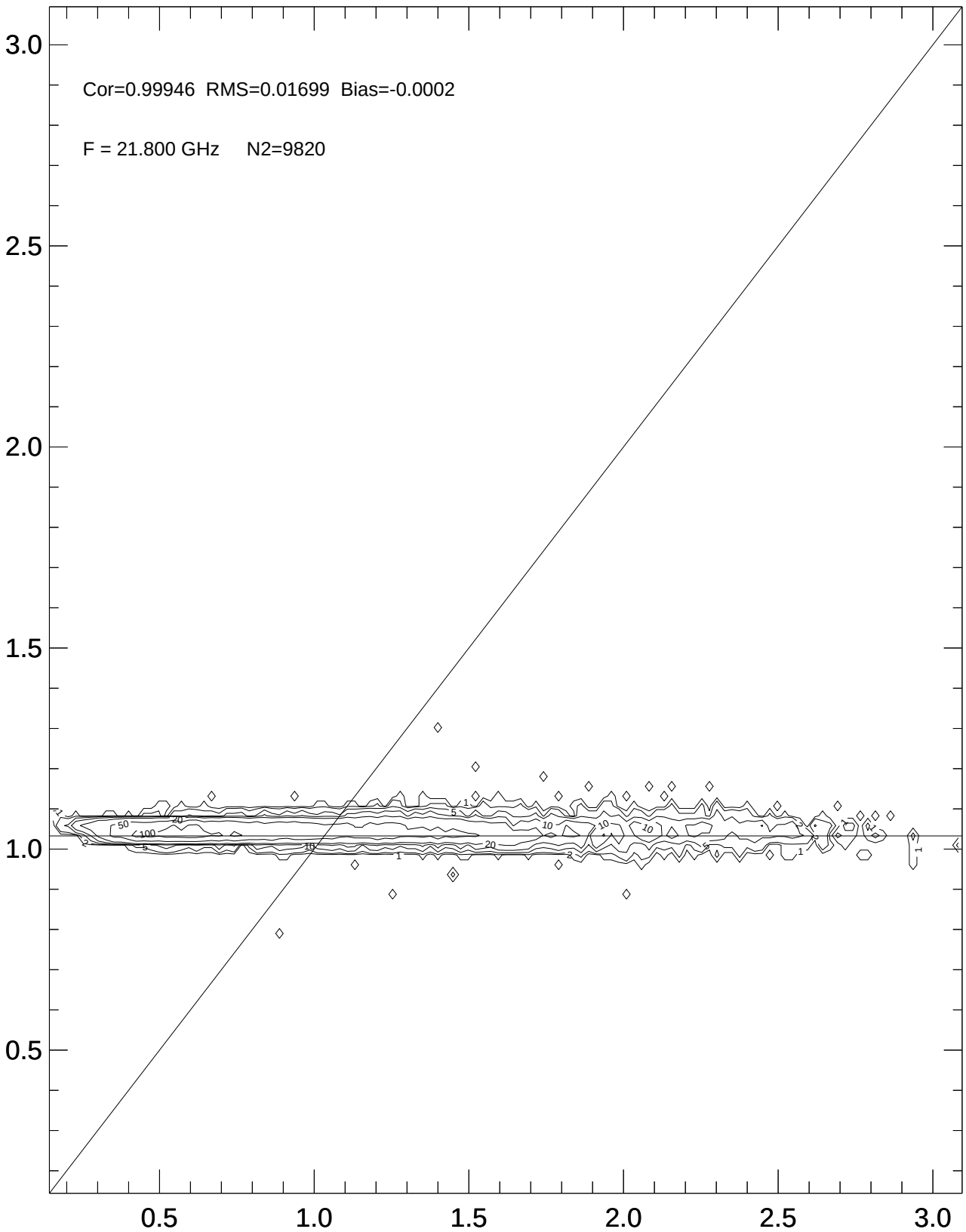

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5

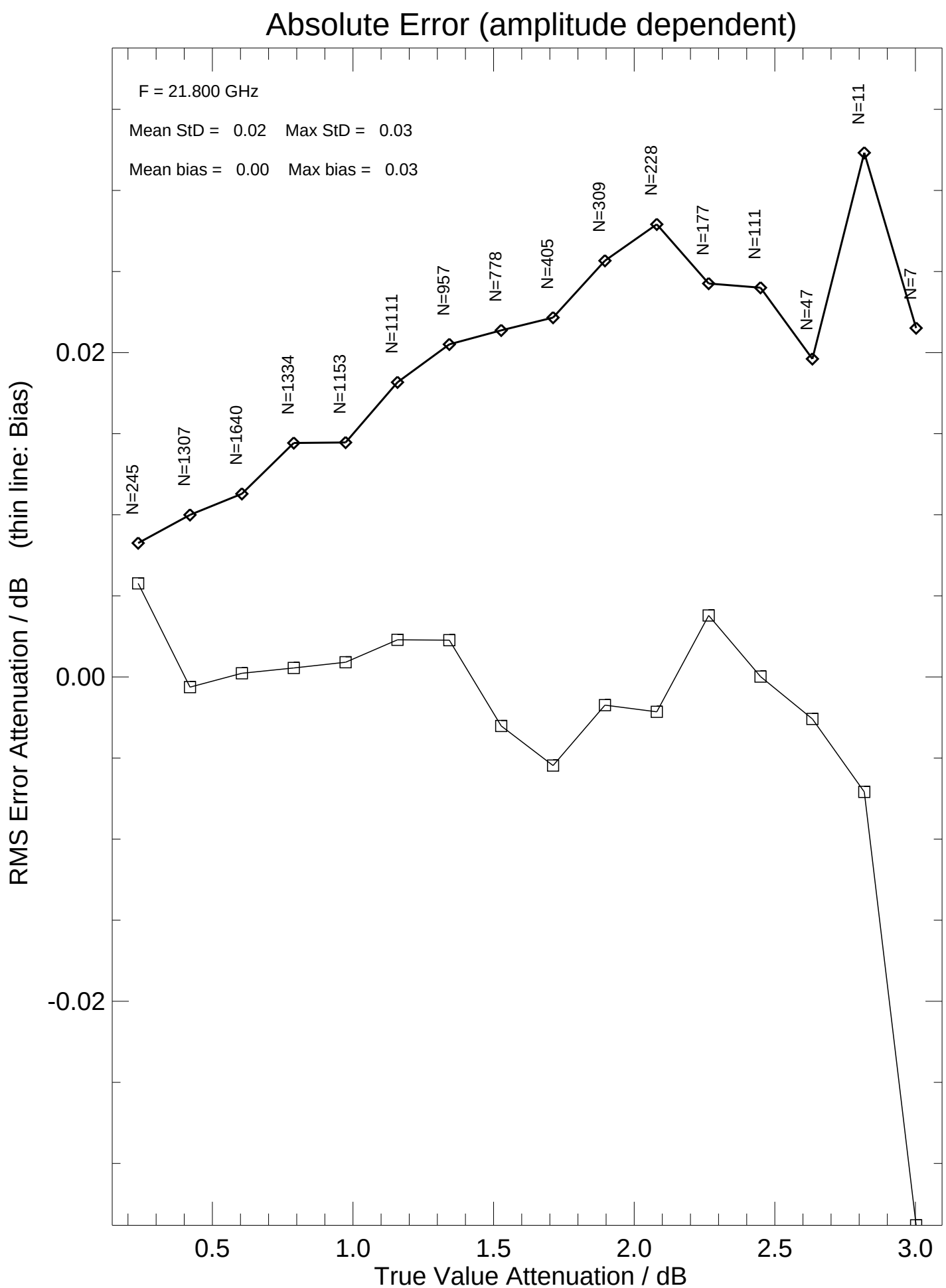

Cor=0.99959 RMS=0.01360 Bias=-0.0001
F = 21.500 GHz N2=9820
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5

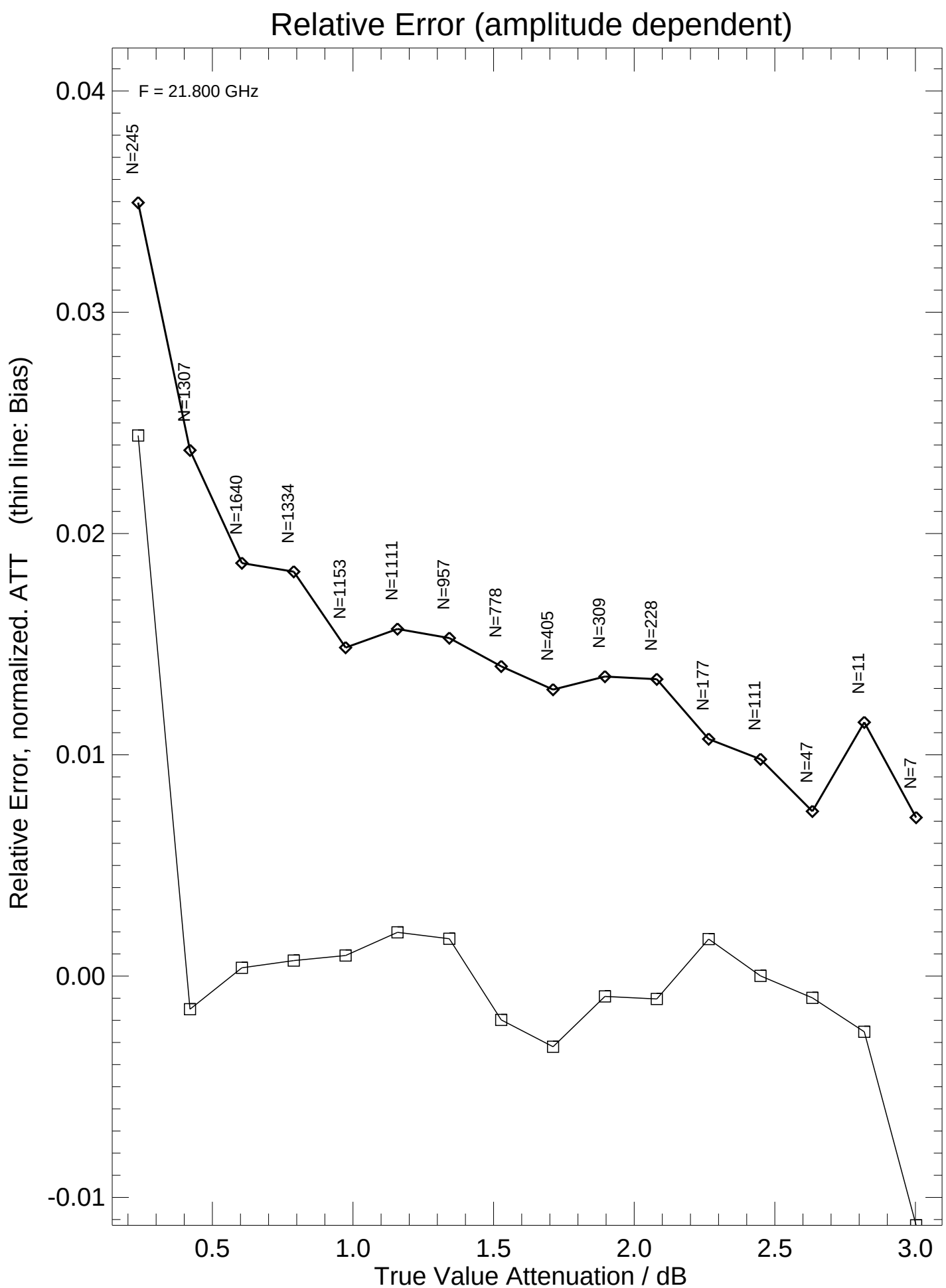

Absolute Error (amplitude dependent)
F = 21.500 GHz
Mean StD = 0.02 Max StD = 0.03
Mean bias = 0.00 Max bias = 0.03
N=256
N=1373
N=1659
N=1343
N=1186
N=1141
N=969
N=685
N=363
N=288
N=212
N=179
N=107
N=42
N=11
N=6
0.03
0.02
0.01
0.00
-0.01
-0.02
-0.03
0.5
1.0
1.5
2.0
2.5
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

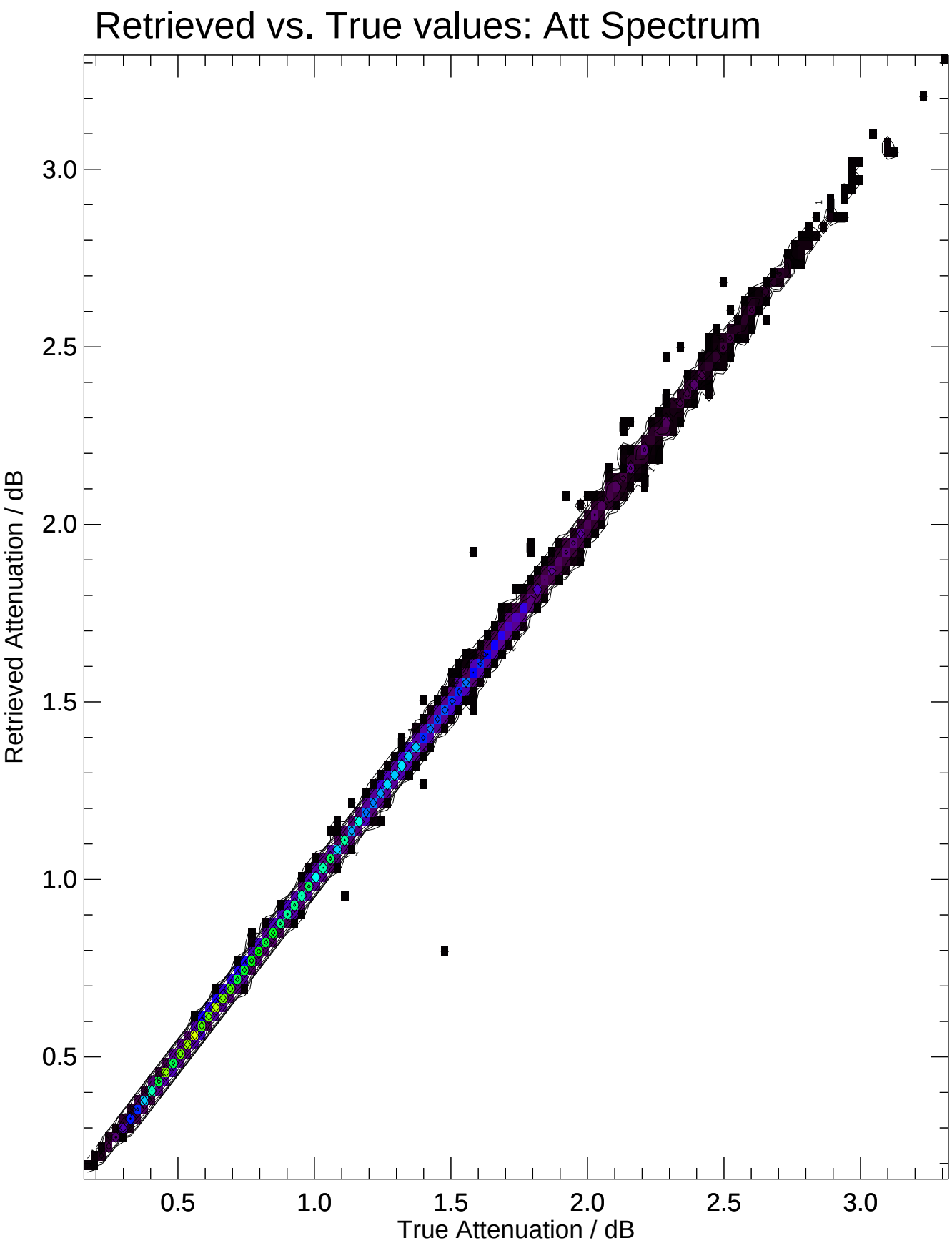

Relative Error (amplitude dependent)
F = 21.500 GHz
N=256
N=1373
N=1659
N=1343
N=1186
N=1141
N=969
N=685
N=363
N=288
N=212
N=179
N=107
N=42
N=11
N=6
0.04
0.03
0.02
0.01
0.00
-0.01
0.5
1.0
1.5
2.0
2.5
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

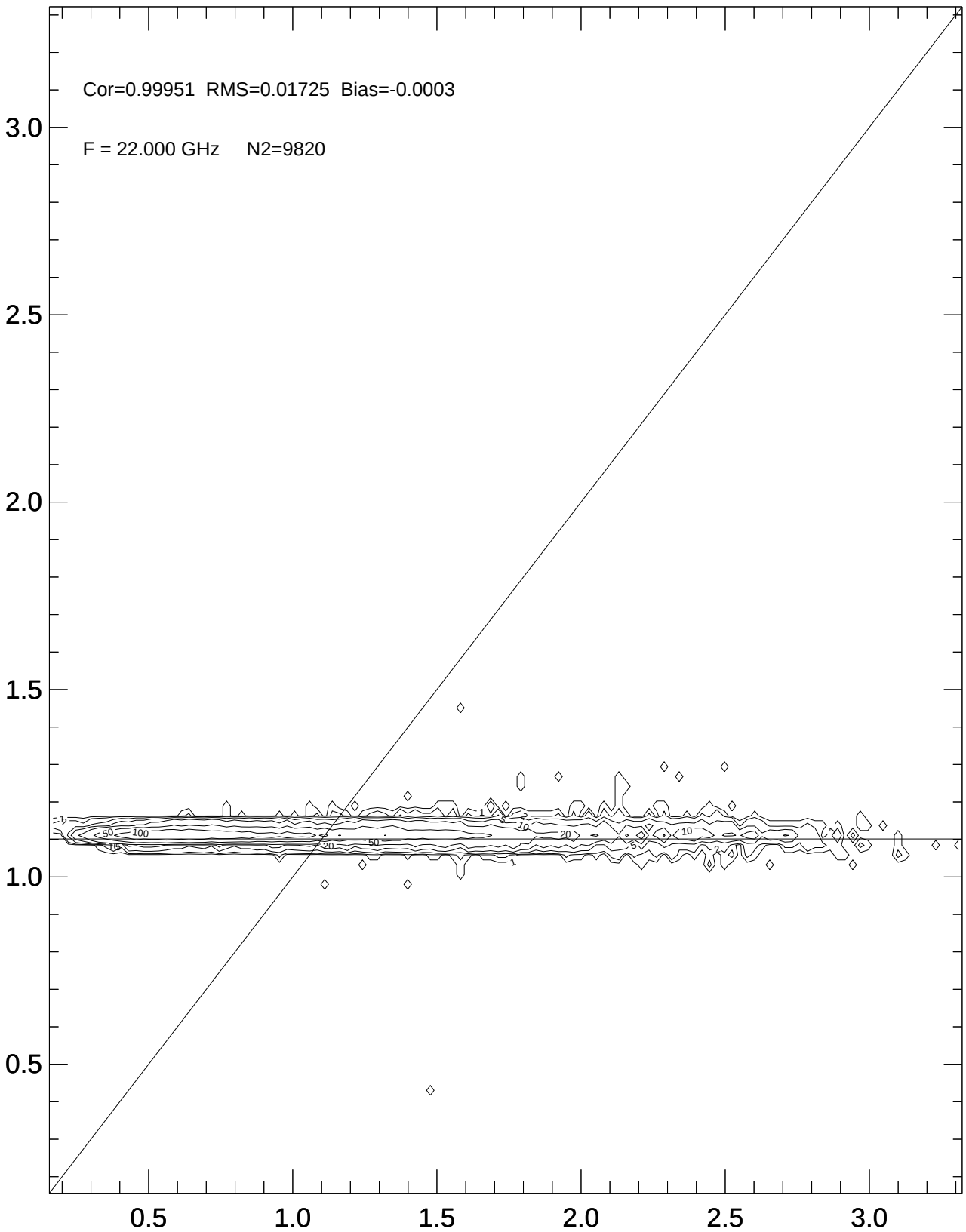

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0

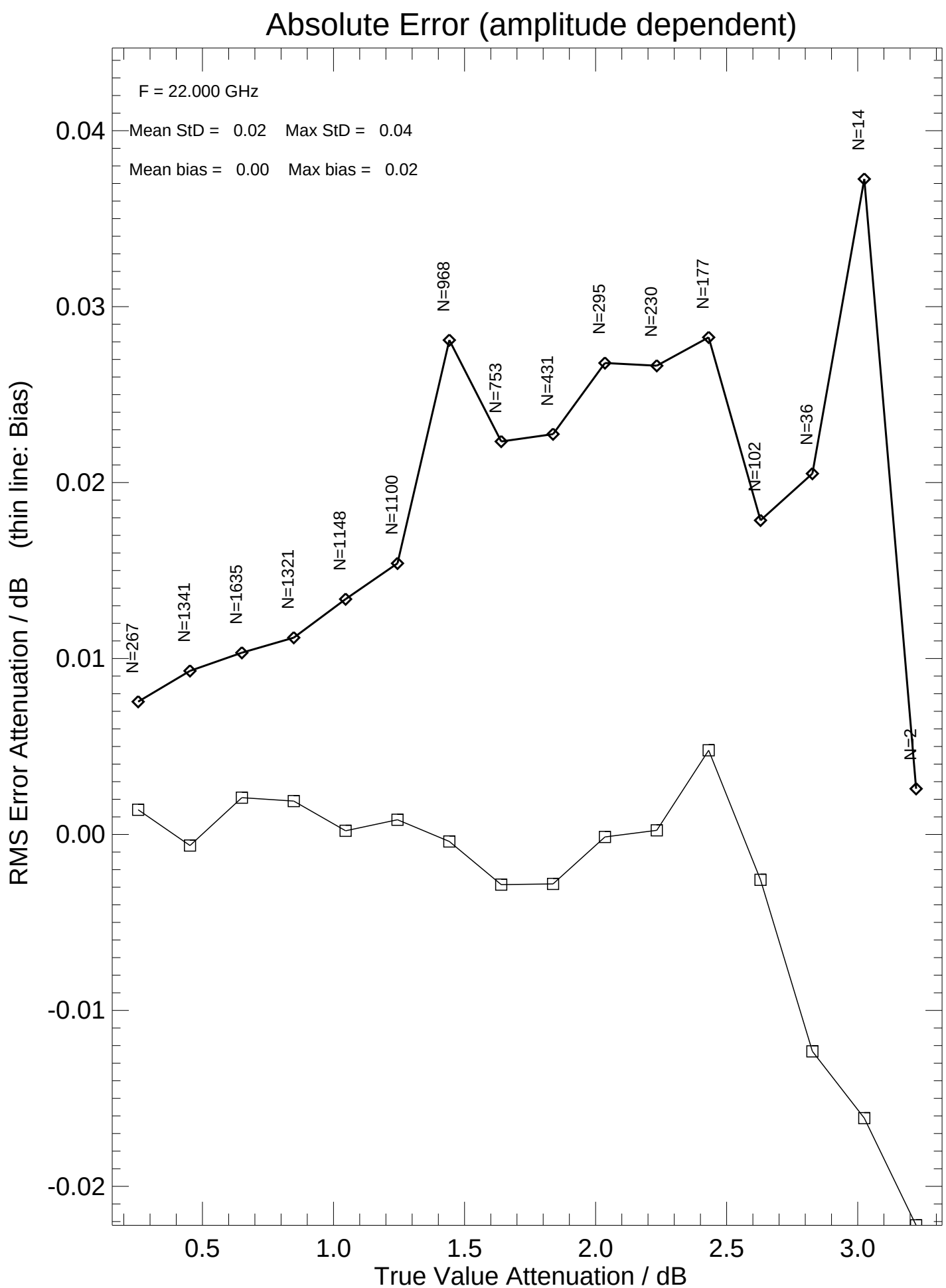

Cor=0.99946 RMS=0.01699 Bias=-0.0002
F = 21.800 GHz N2=9820
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0

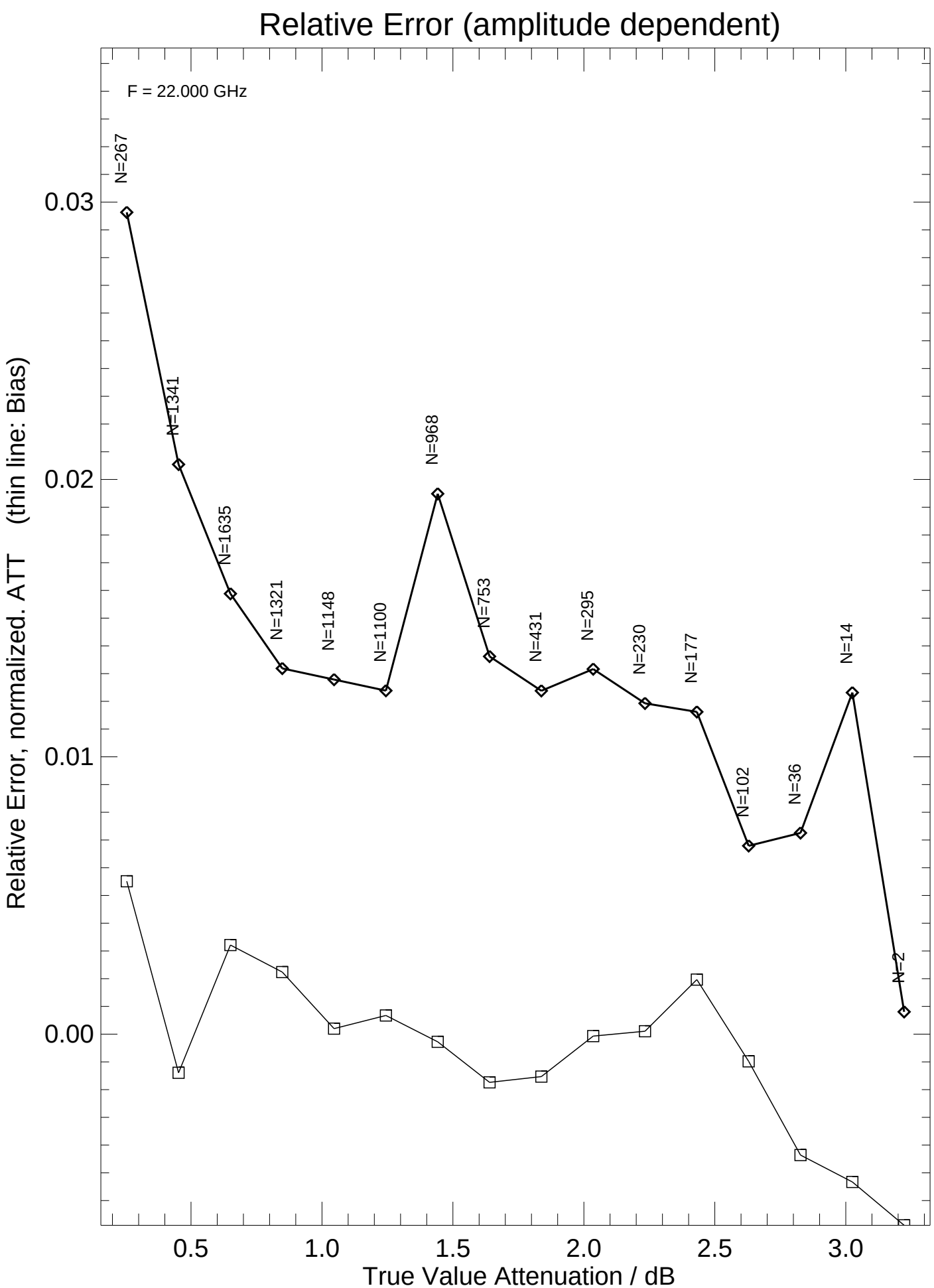

Absolute Error (amplitude dependent)
F = 21.800 GHz
Mean StD = 0.02 Max StD = 0.03
Mean bias = 0.00 Max bias = 0.03
N=245
N=1307
N=1640
N=1334
N=1153
N=1111
N=957
N=778
N=405
N=309
N=228
N=177
N=111
N=47
N=11
N=7
0.02
0.00
-0.02
RMS Error Attenuation / dB (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
3.0
True Value Attenuation / dB

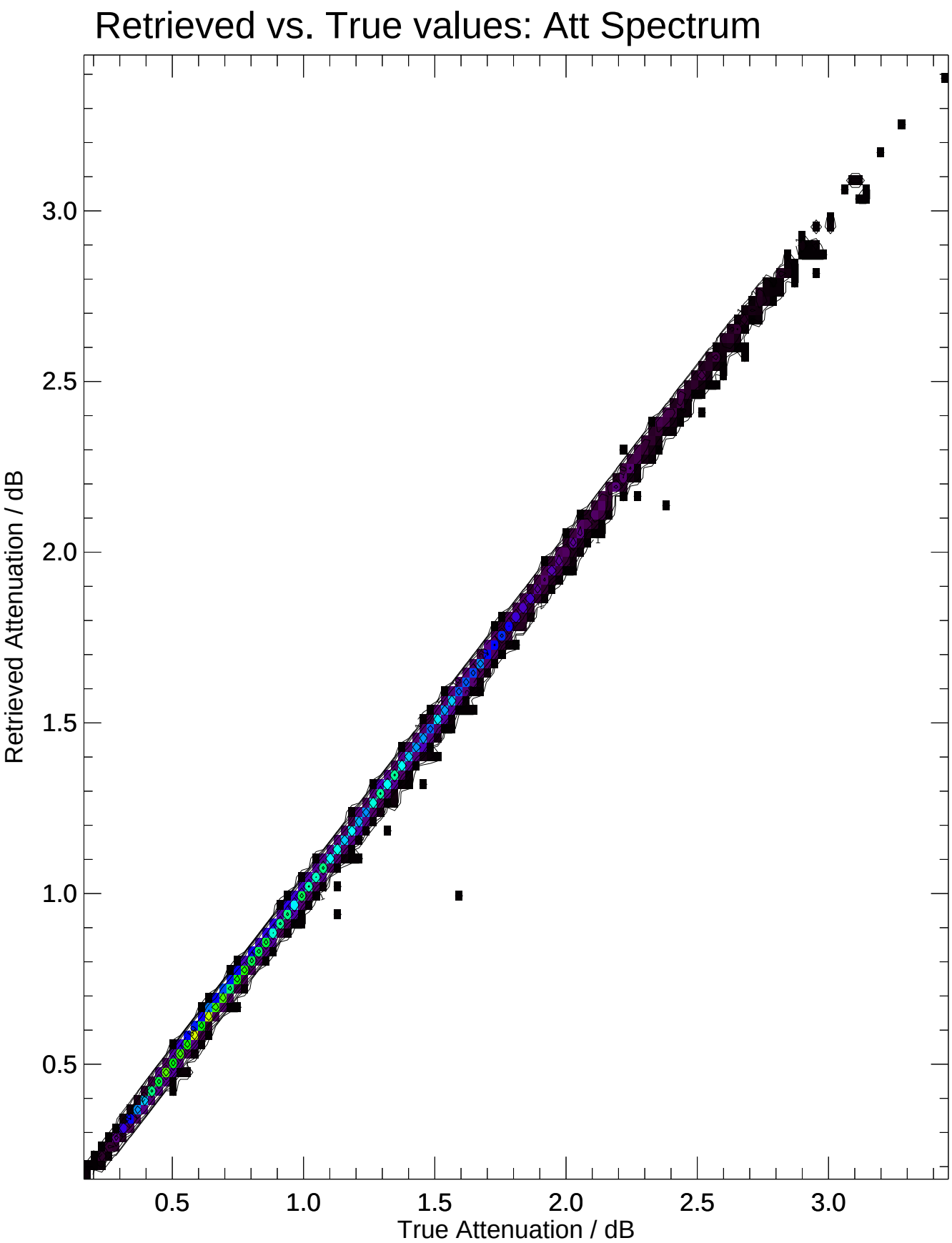

Relative Error (amplitude dependent)
F = 21.800 GHz
N=245
N=1307
N=1640
N=1334
N=1153
N=1111
N=957
N=778
N=405
N=309
N=228
N=177
N=111
N=47
N=11
N=7
0.04
0.03
0.02
0.01
0.00
-0.01
0.5
1.0
1.5
2.0
2.5
3.0
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

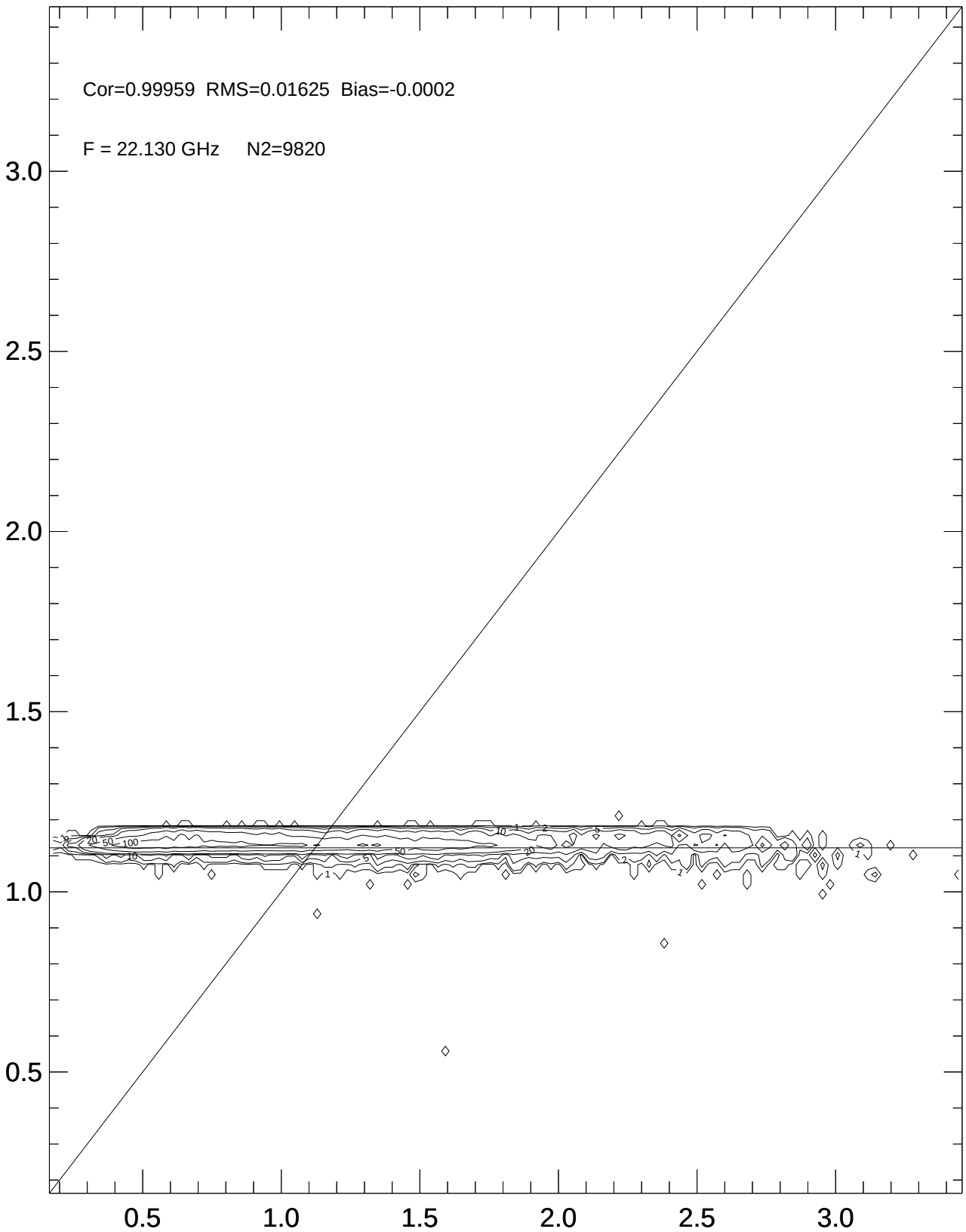

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0

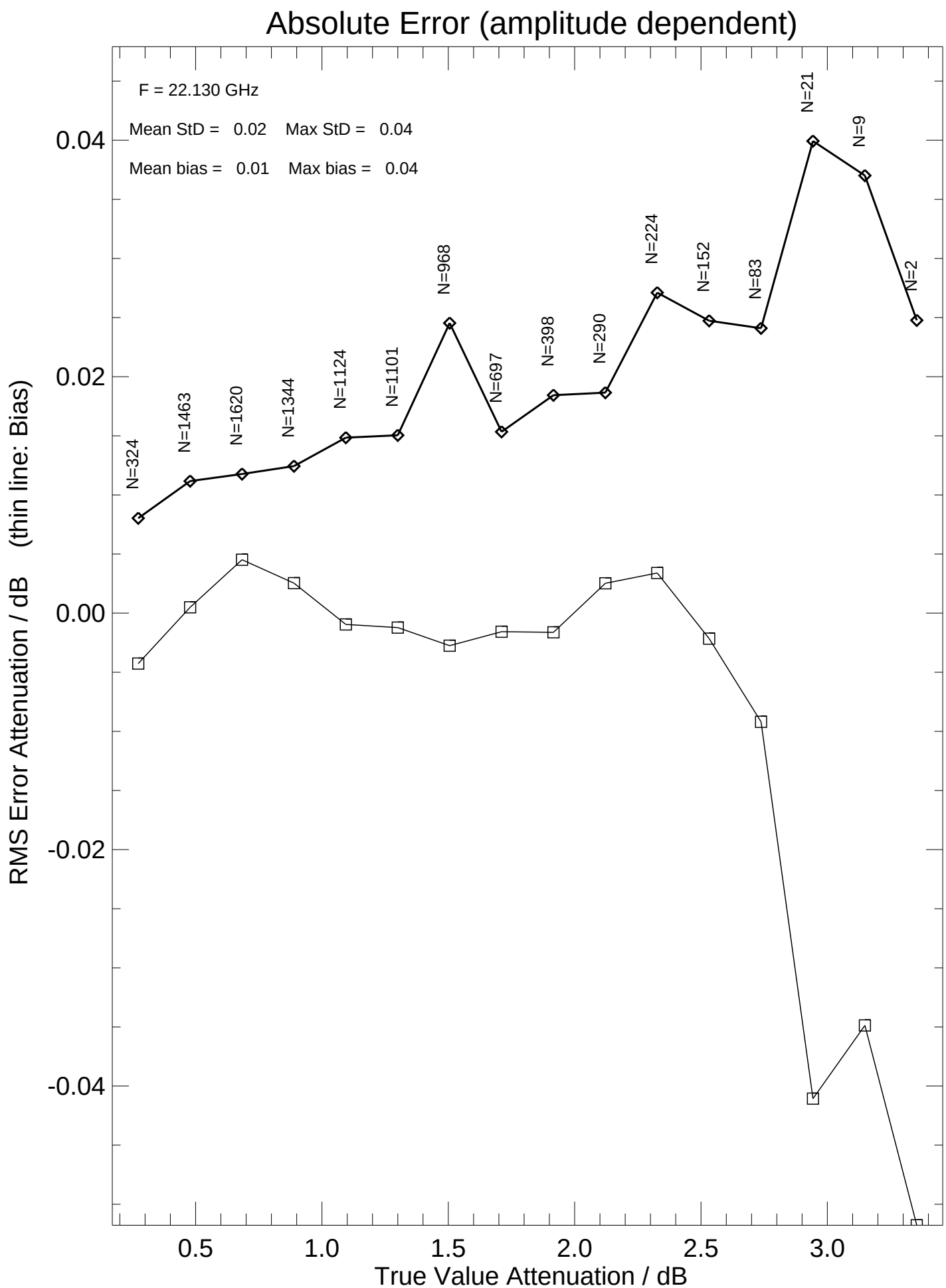

Cor=0.99951 RMS=0.01725 Bias=-0.0003
F = 22.000 GHz N2=9820
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0

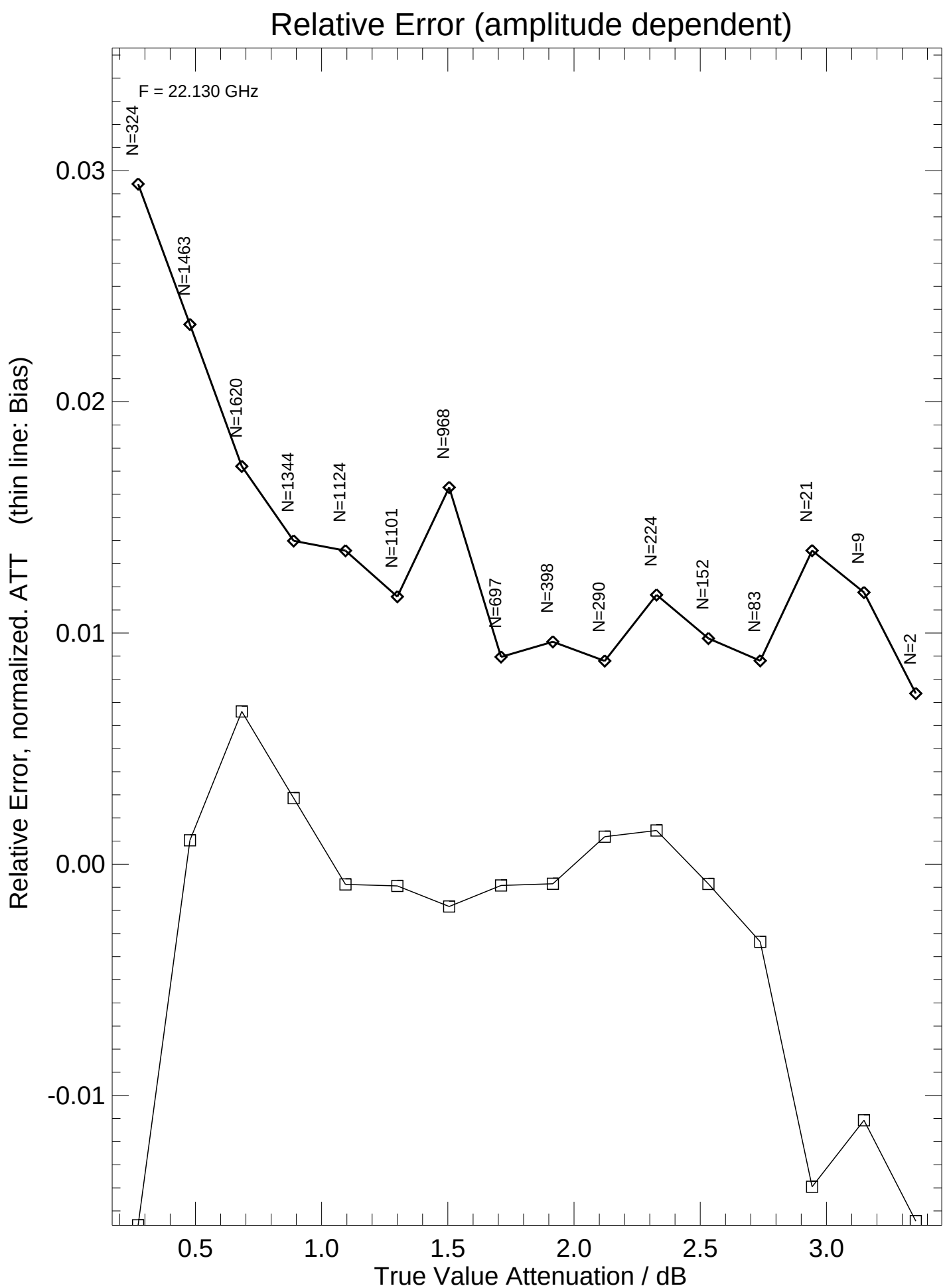

Absolute Error (amplitude dependent)
F = 22.000 GHz
Mean StD = 0.02 Max StD = 0.04
Mean bias = 0.00 Max bias = 0.02
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB
0.04
0.03
0.02
0.01
0.00
-0.01
-0.02
0.5
1.0
1.5
2.0
2.5
3.0
N=267
N=1341
N=1635
N=1321
N=1148
N=1100
N=968
N=753
N=431
N=295
N=230
N=177
N=102
N=36
N=14
N=2

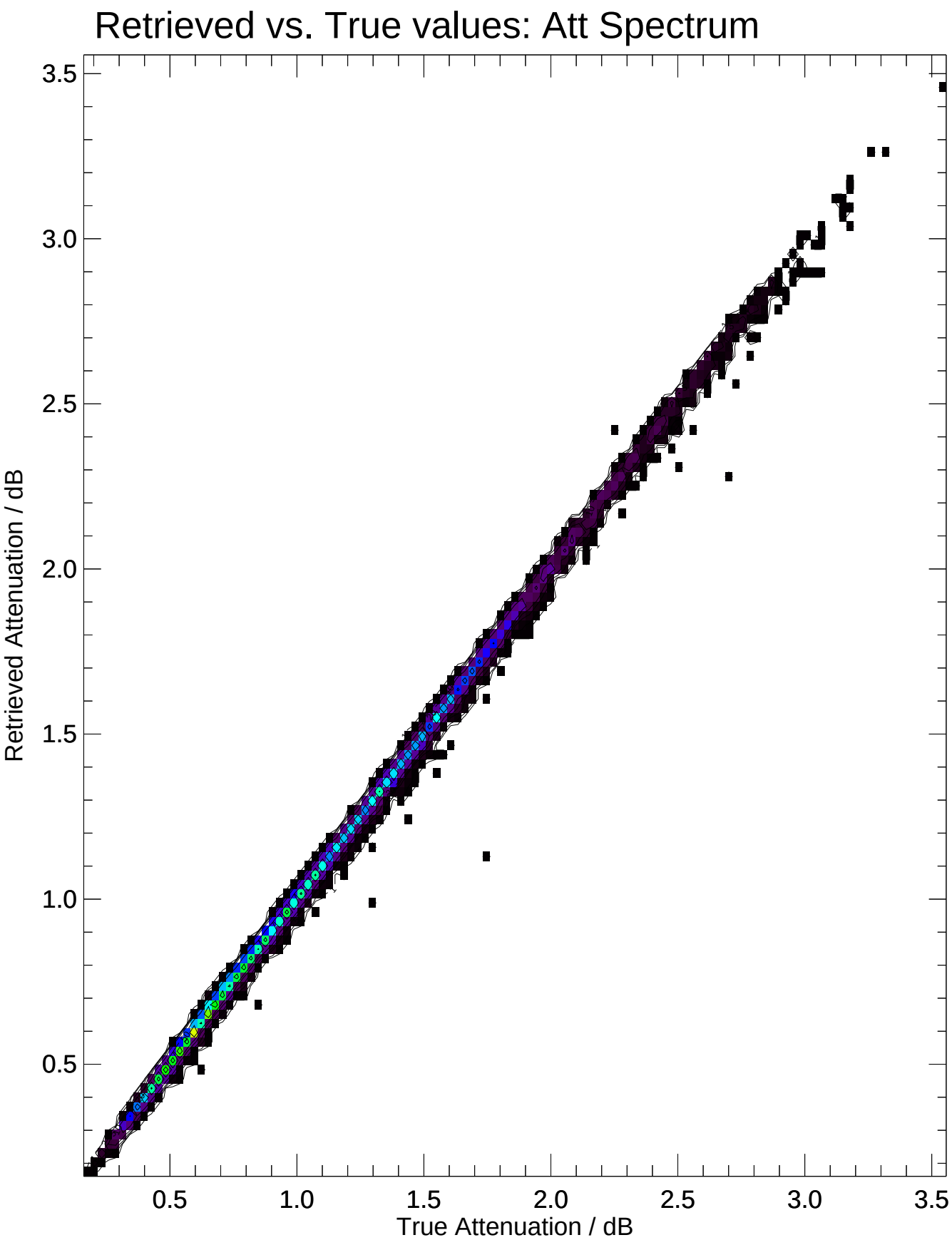

Relative Error (amplitude dependent)
F = 22.000 GHz
N=267
N=1341
N=1635
N=1321
N=1148
N=1100
N=968
N=753
N=431
N=295
N=230
N=177
N=102
N=36
N=14
N=2
0.03
0.02
0.01
0.00
Relative Error, normalized. ATT (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
3.0
True Value Attenuation / dB

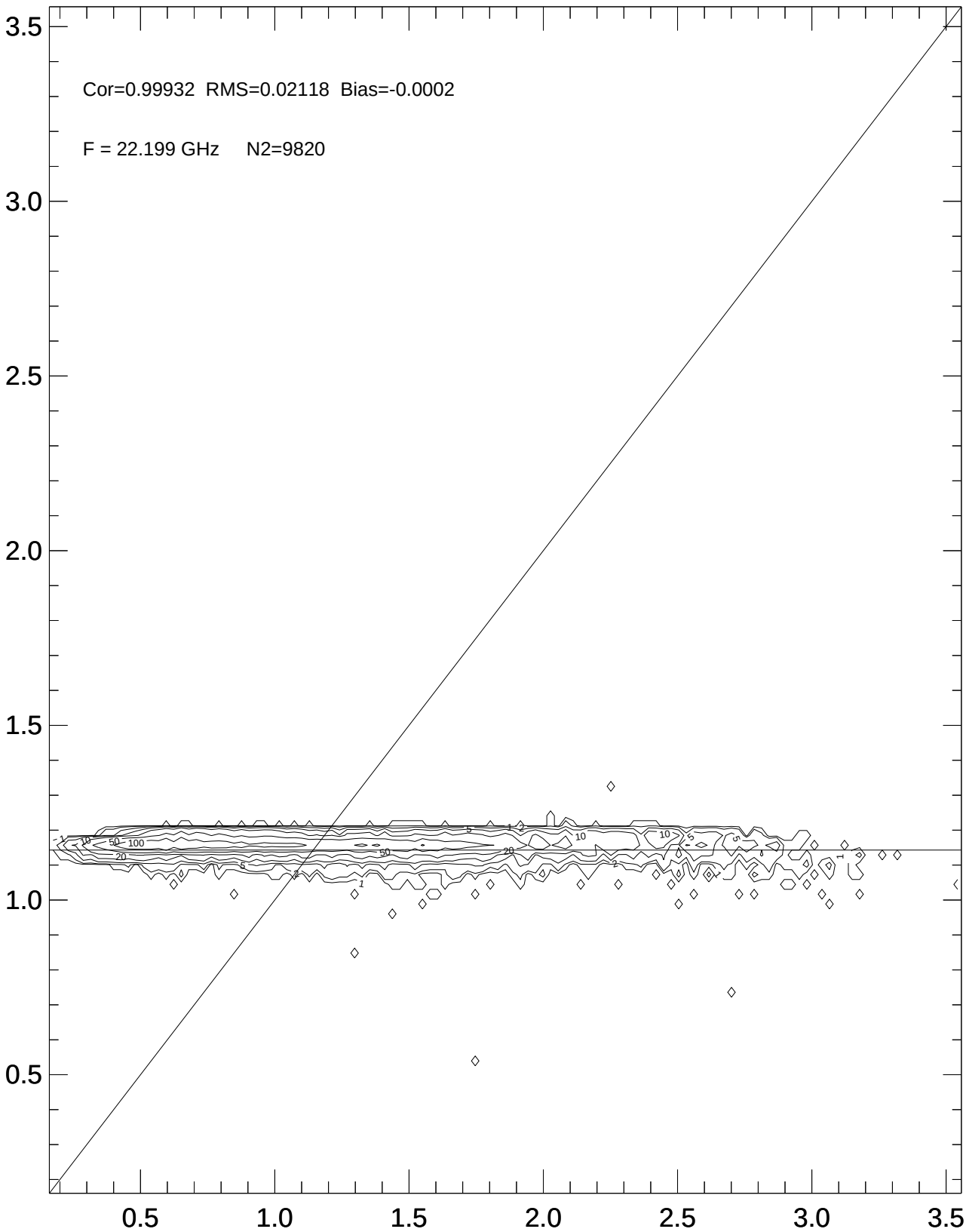

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0

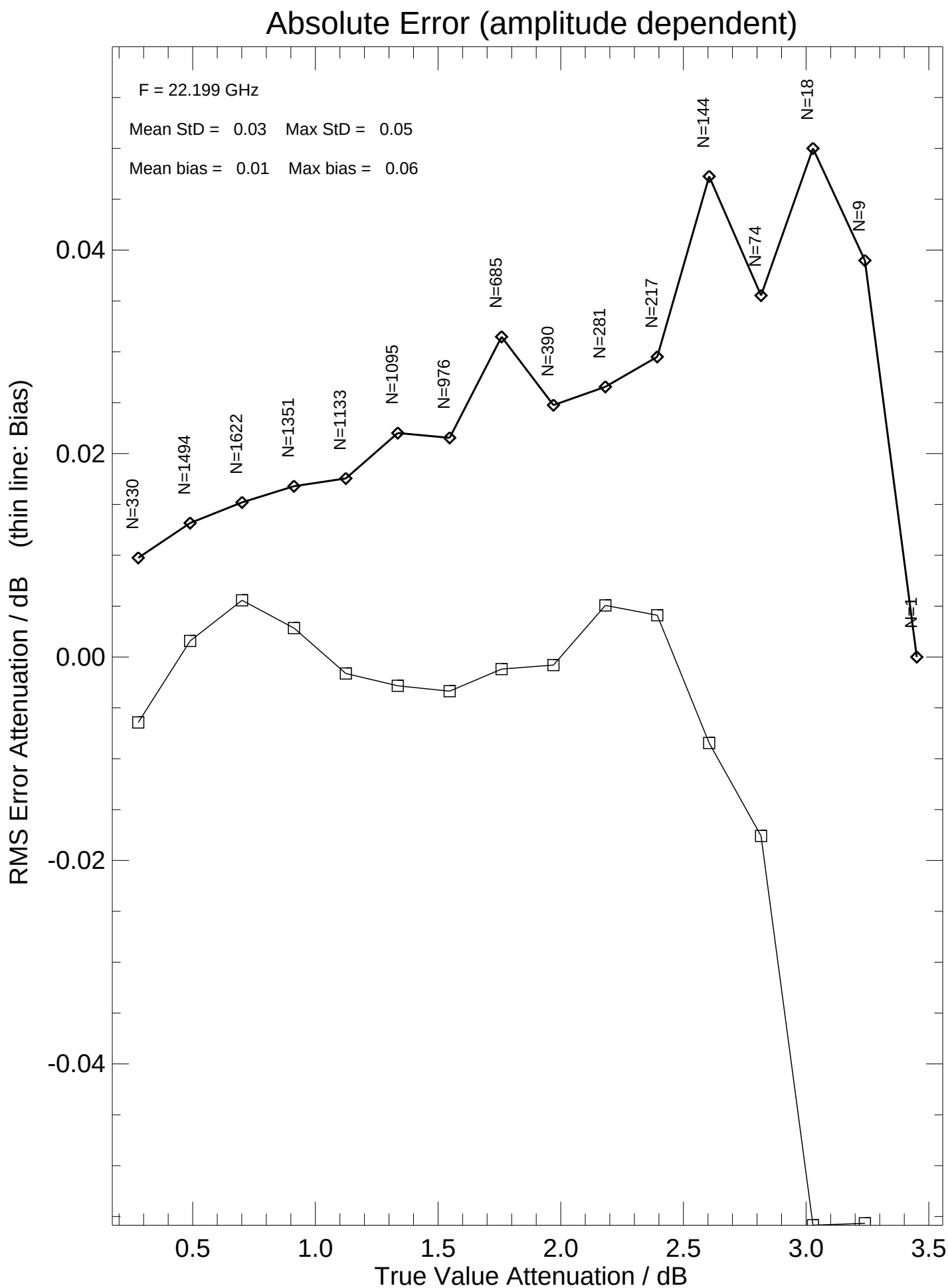

Cor=0.99959 RMS=0.01625 Bias=-0.0002
F = 22.130 GHz N2=9820
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0

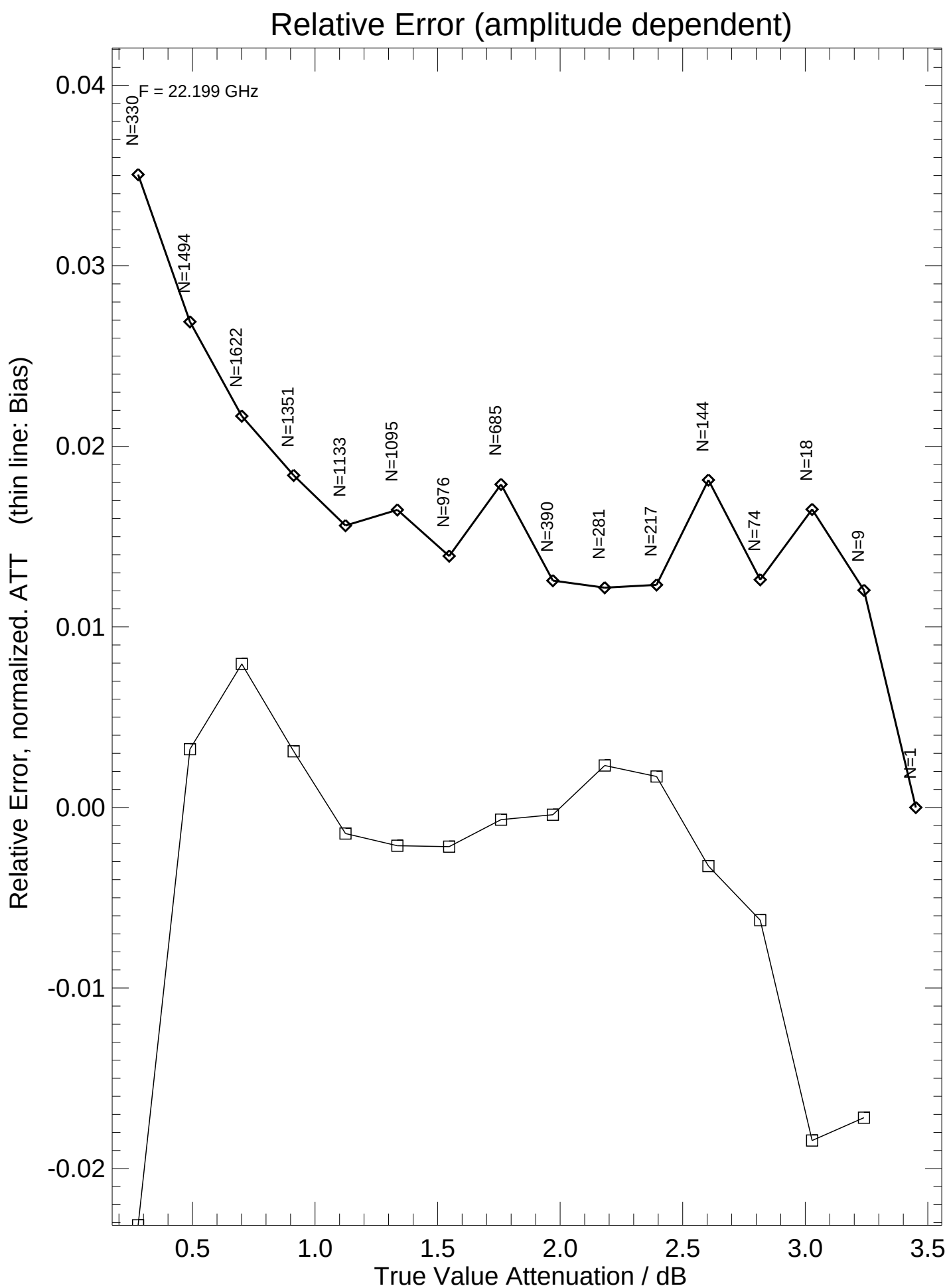

Absolute Error (amplitude dependent)
F = 22.130 GHz
Mean StD = 0.02 Max StD = 0.04
Mean bias = 0.01 Max bias = 0.04
N=324
N=1463
N=1620
N=1344
N=1124
N=1101
N=968
N=697
N=398
N=290
N=224
N=152
N=83
N=21
N=9
N=2
0.04
0.02
0.00
-0.02
-0.04
RMS Error Attenuation / dB (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
3.0
True Value Attenuation / dB

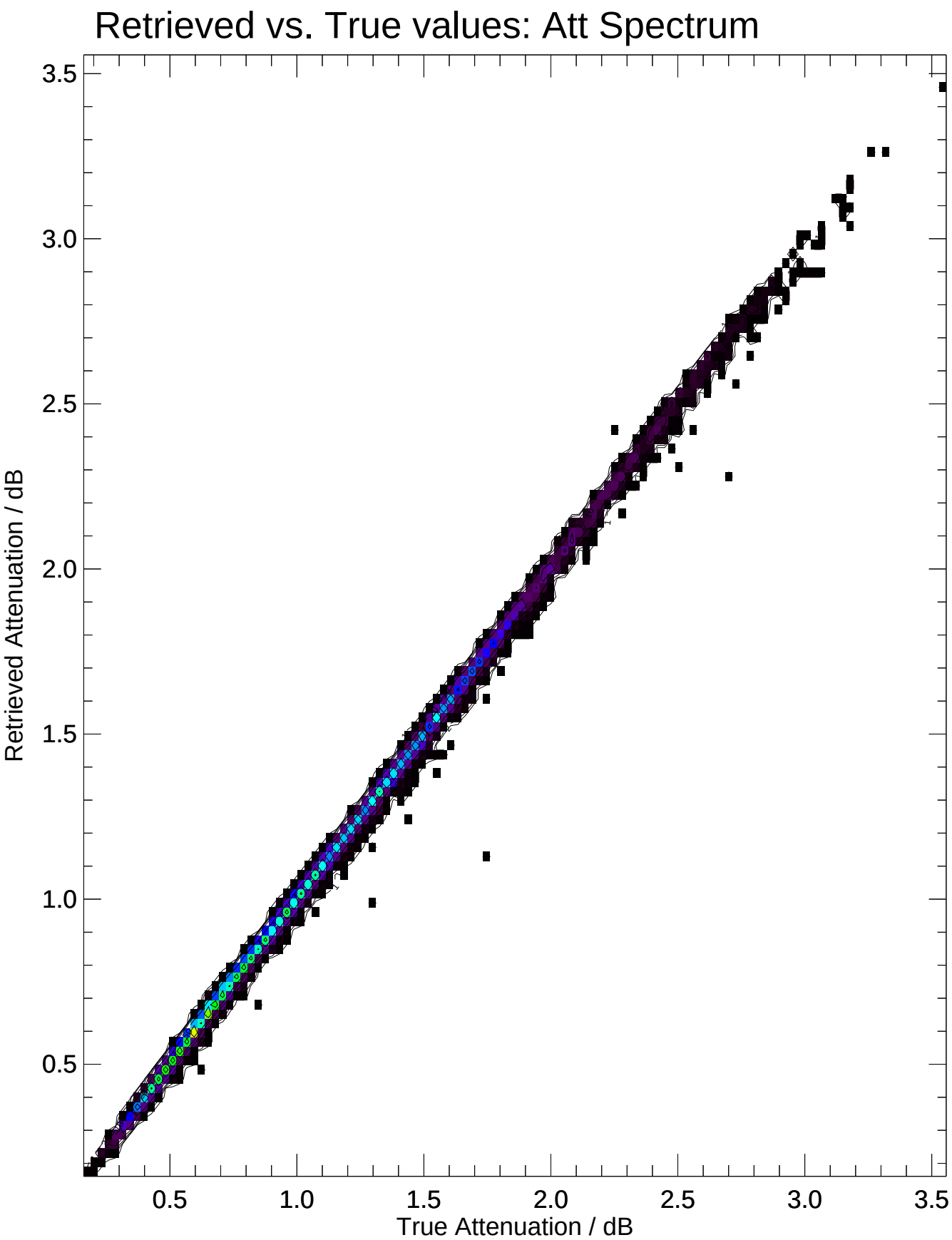

Relative Error (amplitude dependent)
F = 22.130 GHz
N=324
N=1463
N=1620
N=1344
N=1124
N=1101
N=968
N=697
N=398
N=290
N=224
N=152
N=83
N=21
N=9
N=2
0.03
0.02
0.01
0.00
-0.01
0.5
1.0
1.5
2.0
2.5
3.0
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

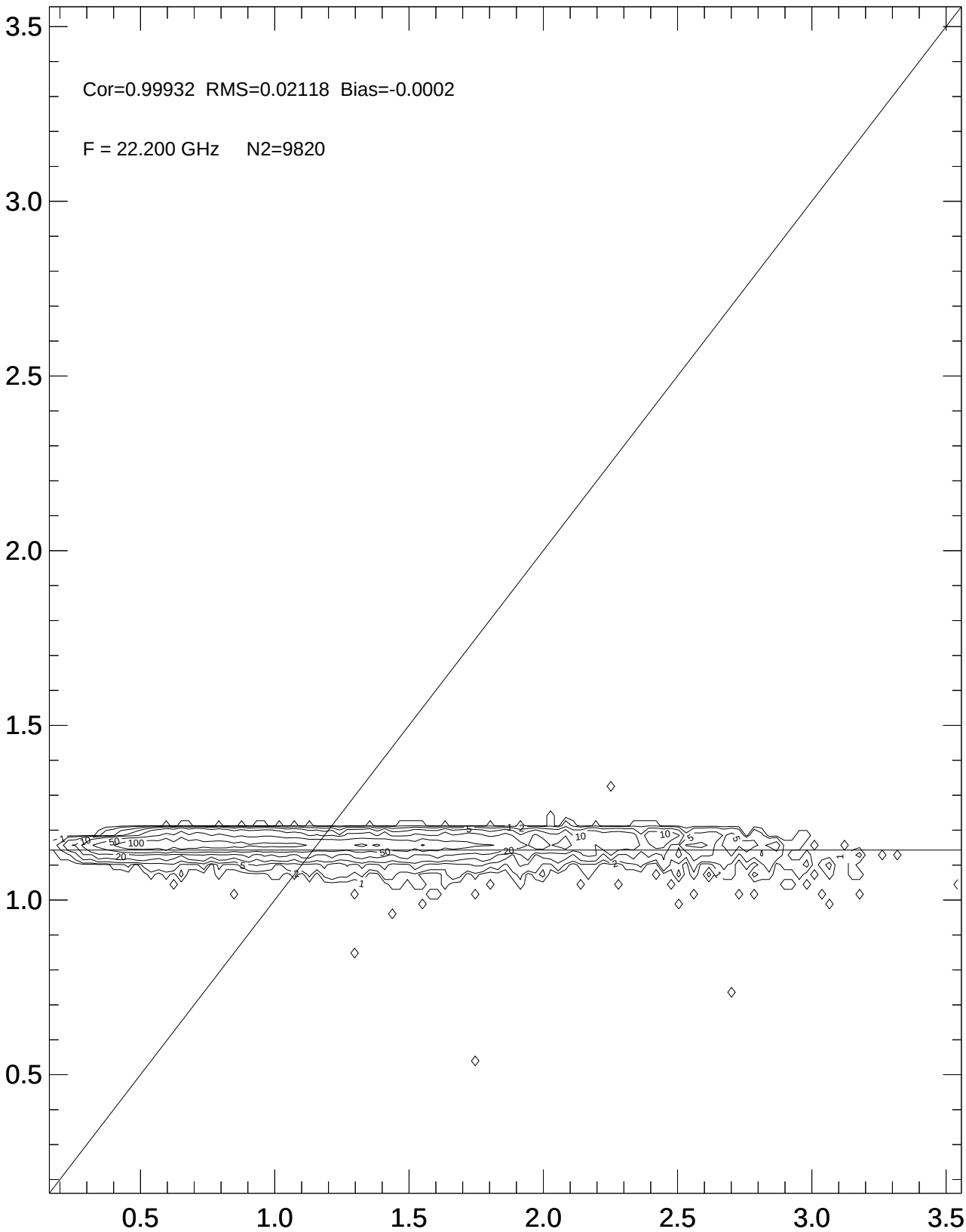

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0
3.5

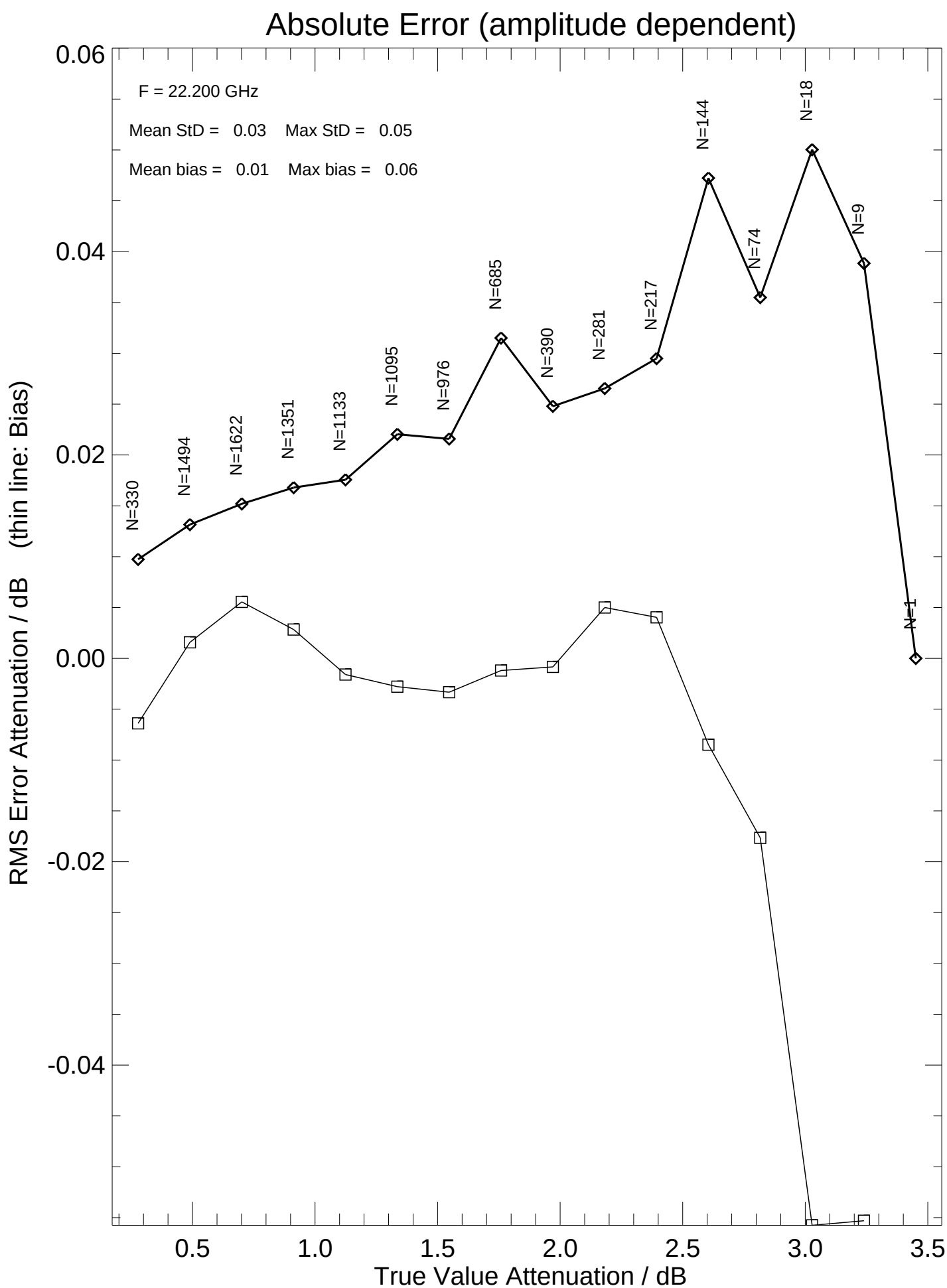

Cor=0.99932 RMS=0.02118 Bias=-0.0002
F = 22.199 GHz N2=9820
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0
3.5

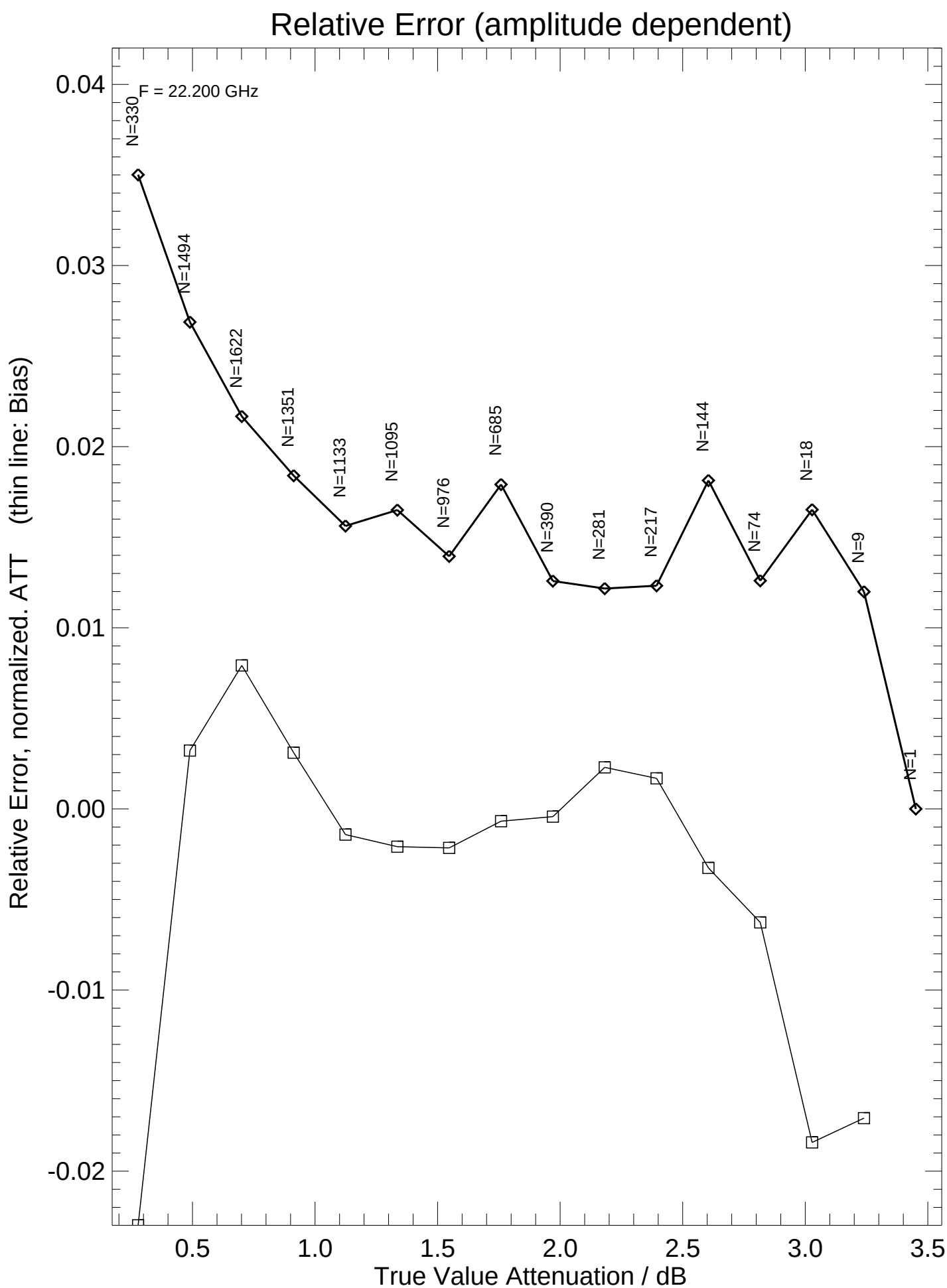

Absolute Error (amplitude dependent)
F = 22.199 GHz
Mean StD = 0.03 Max StD = 0.05
Mean bias = 0.01 Max bias = 0.06
N=330
N=1494
N=1622
N=1351
N=1133
N=1095
N=976
N=685
N=390
N=281
N=217
N=144
N=74
N=18
N=9
N=1
0.04
0.02
0.00
-0.02
-0.04
0.5
1.0
1.5
2.0
2.5
3.0
3.5
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

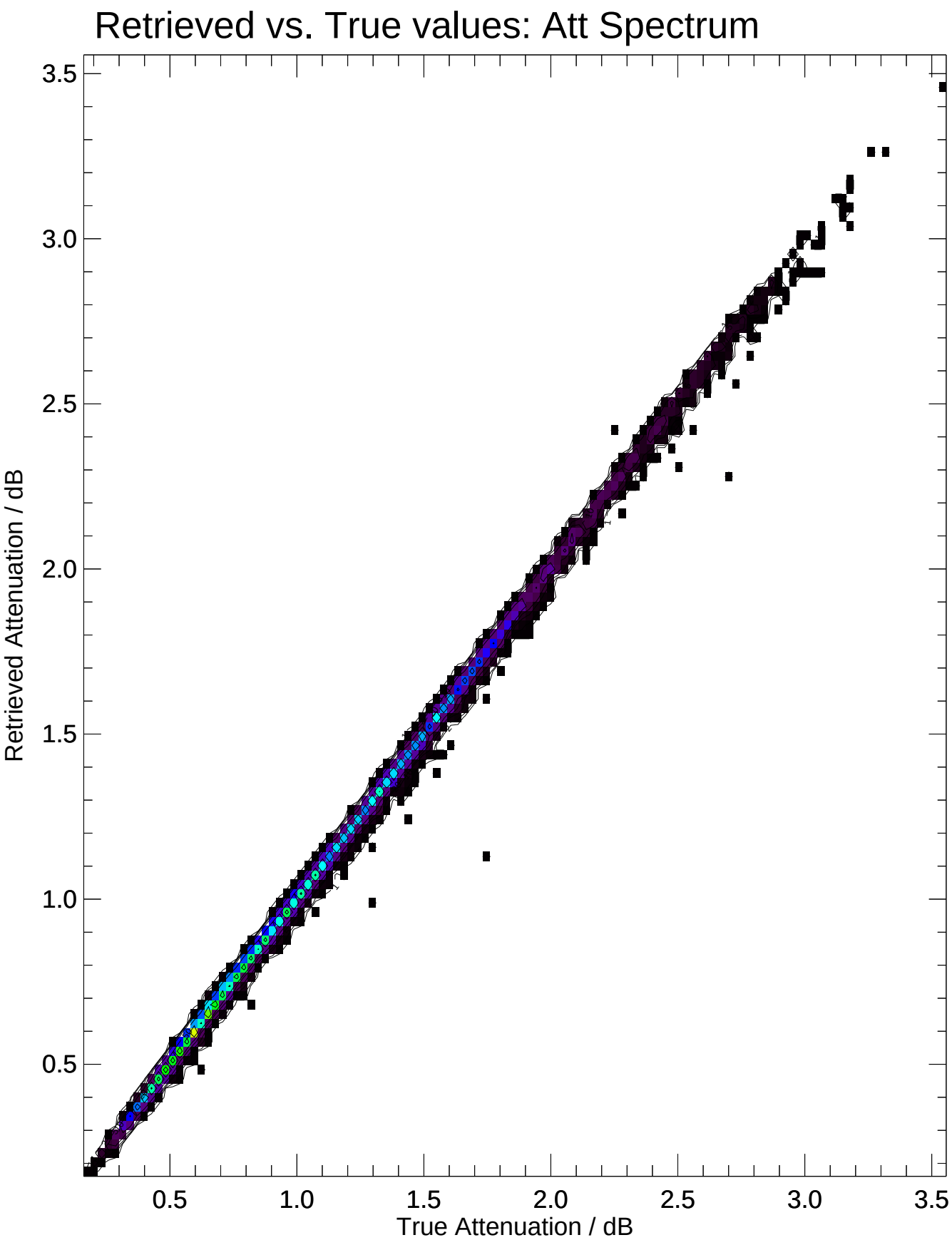

Relative Error (amplitude dependent)
F = 22.199 GHz
N=330
N=1494
N=1622
N=1351
N=1133
N=1095
N=976
N=685
N=390
N=281
N=217
N=144
N=74
N=18
N=9
N=1
0.04
0.03
0.02
0.01
0.00
-0.01
-0.02
0.5
1.0
1.5
2.0
2.5
3.0
3.5
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

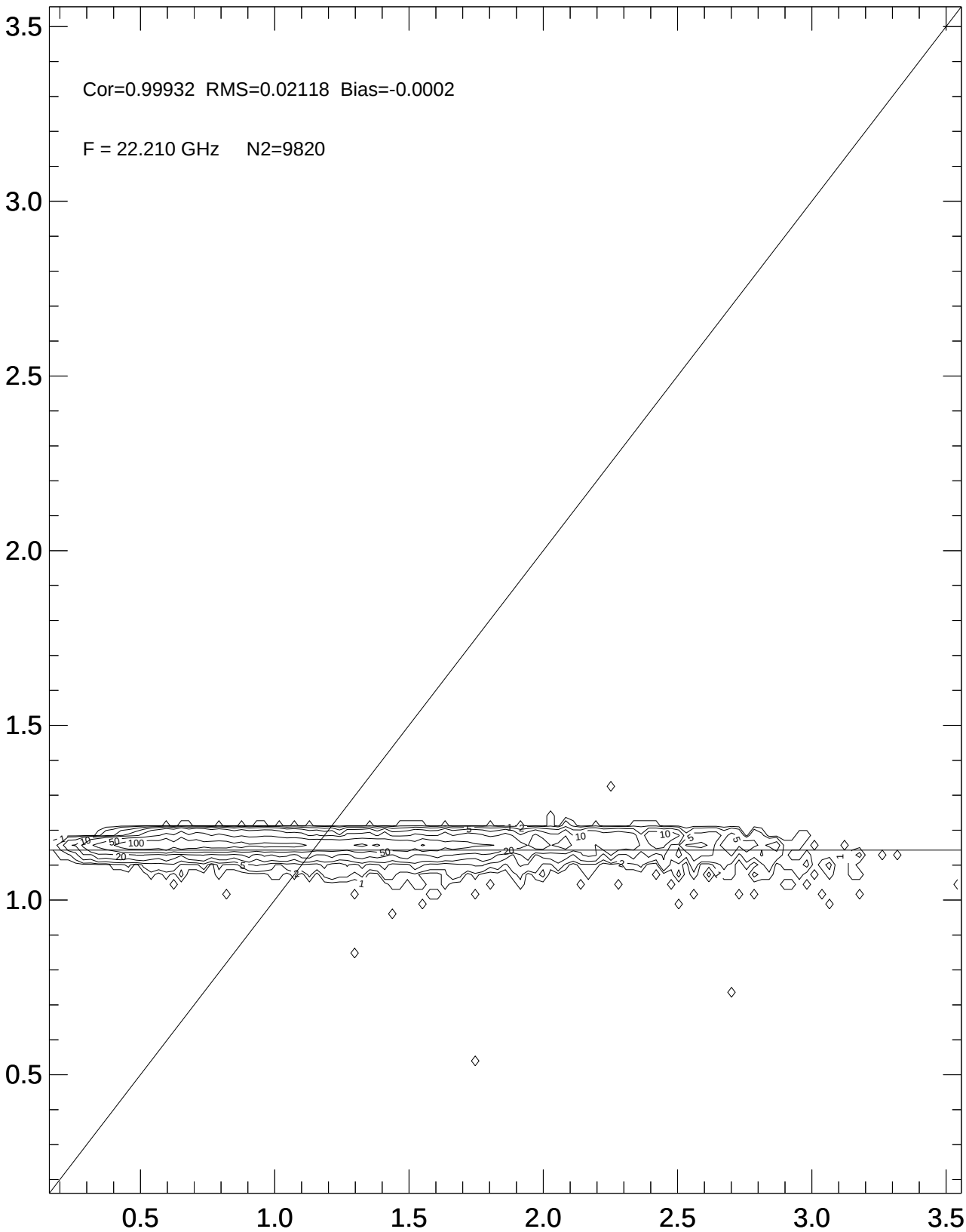

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0
3.5

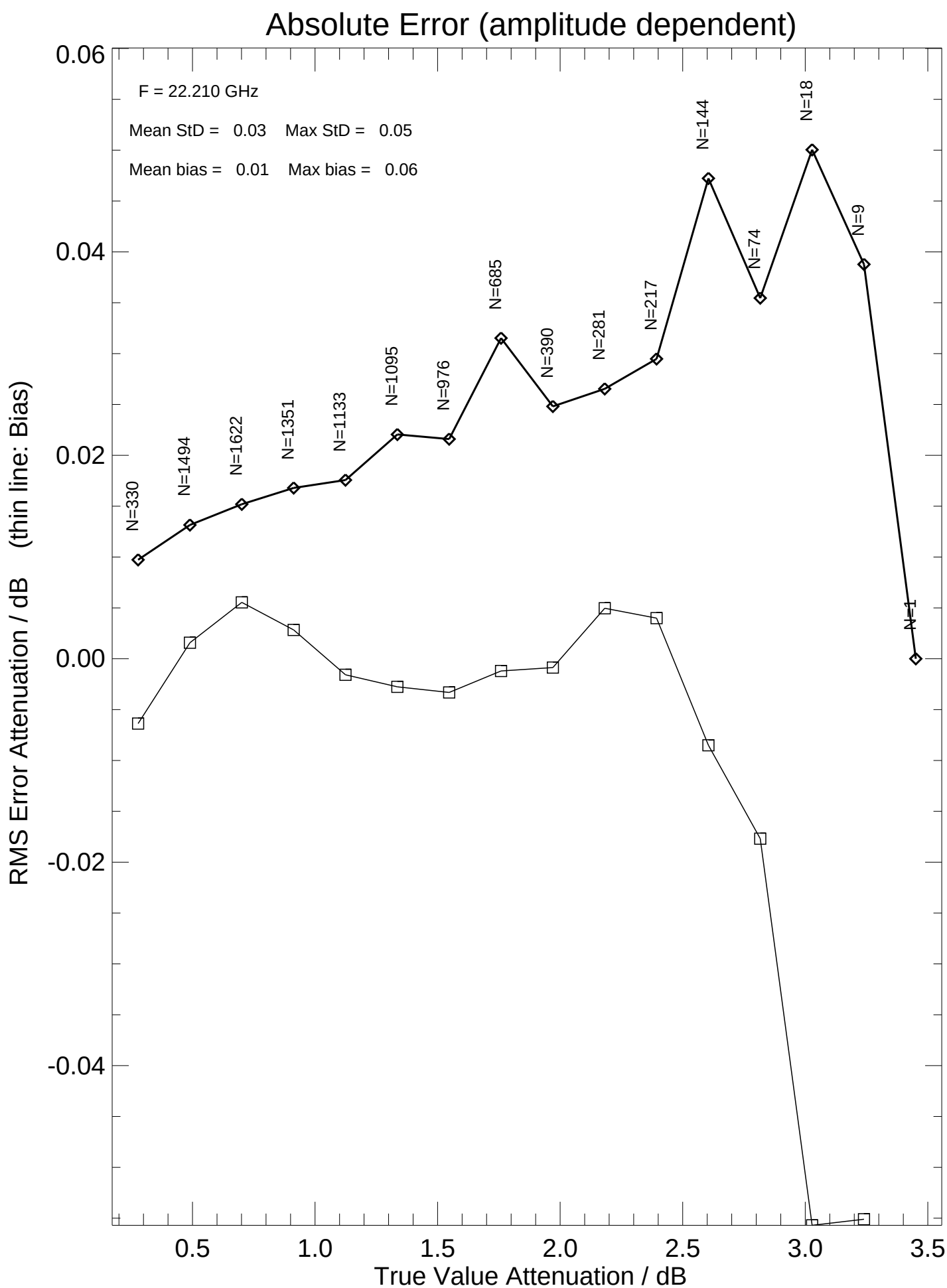

Cor=0.99932 RMS=0.02118 Bias=-0.0002
F = 22.200 GHz N2=9820
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0
3.5

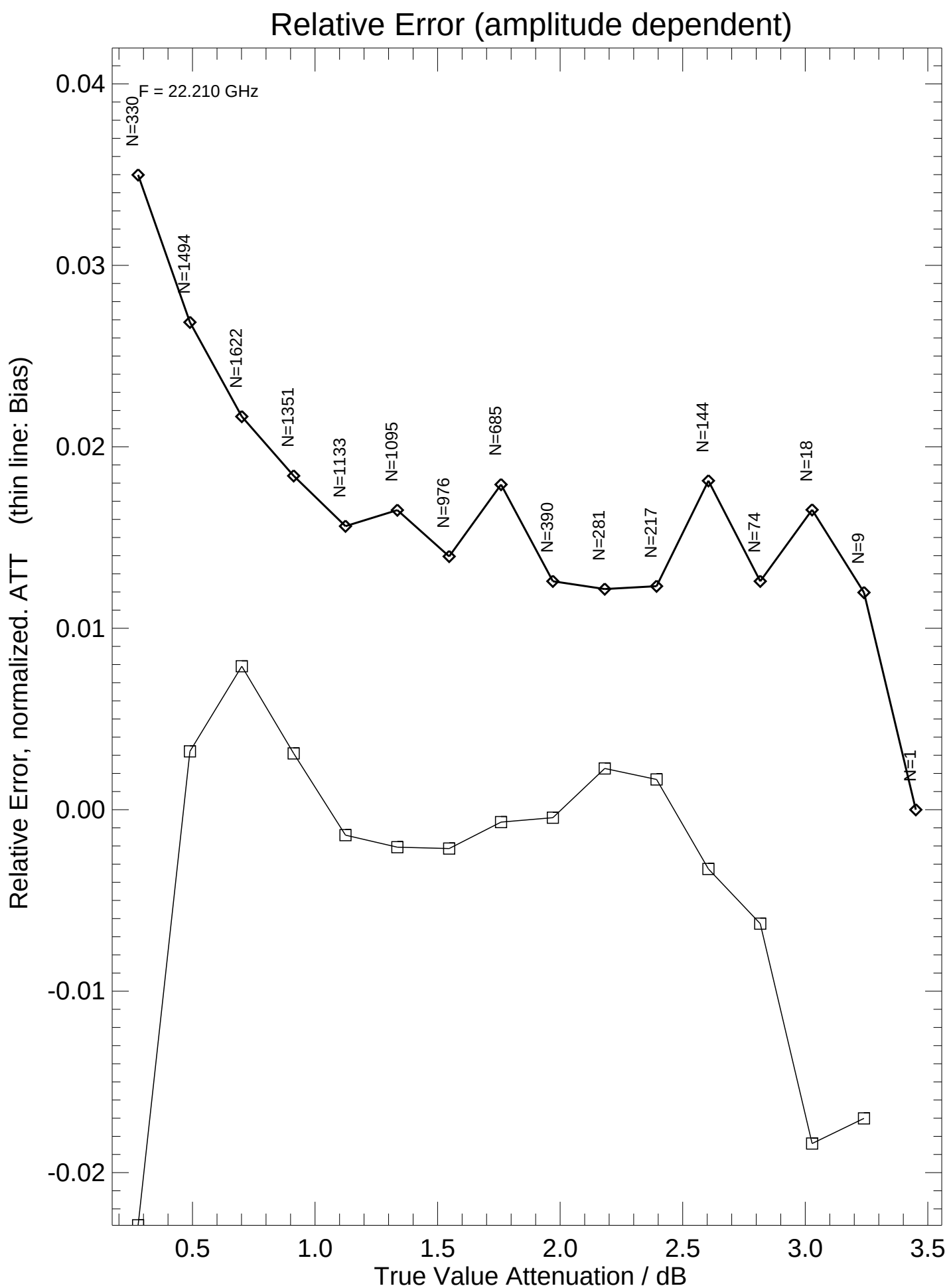

Absolute Error (amplitude dependent)
F = 22.200 GHz
Mean StD = 0.03 Max StD = 0.05
Mean bias = 0.01 Max bias = 0.06
N=330
N=1494
N=1622
N=1351
N=1133
N=1095
N=976
N=685
N=390
N=281
N=217
N=144
N=74
N=18
N=9
N=1
0.06
0.04
0.02
0.00
-0.02
-0.04
0.5
1.0
1.5
2.0
2.5
3.0
3.5
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

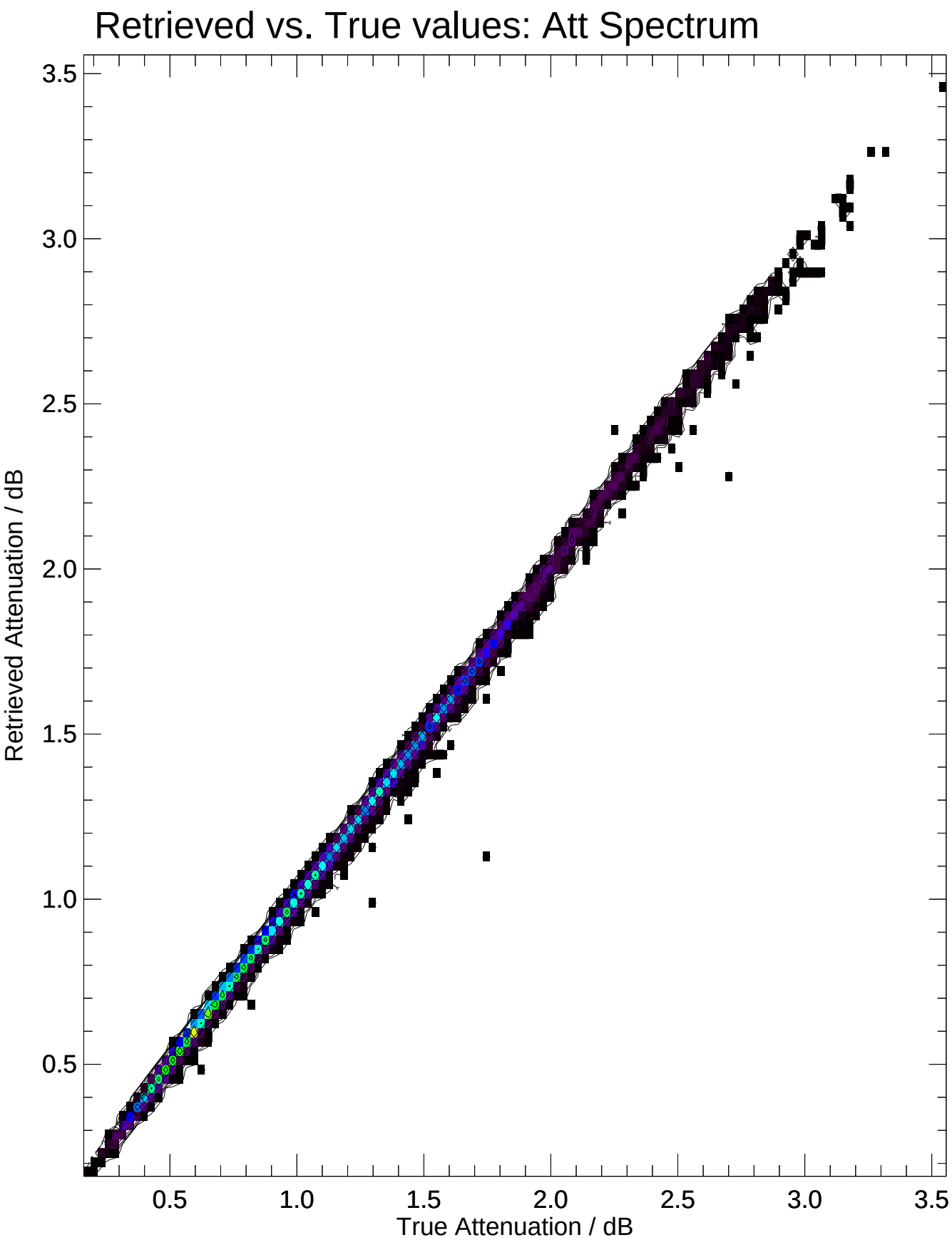

Relative Error (amplitude dependent)
F = 22.200 GHz
N=330
N=1494
N=1622
N=1351
N=1133
N=1095
N=976
N=685
N=390
N=281
N=217
N=144
N=74
N=18
N=9
N=1
0.04
0.03
0.02
0.01
0.00
-0.01
-0.02
0.5
1.0
1.5
2.0
2.5
3.0
3.5
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

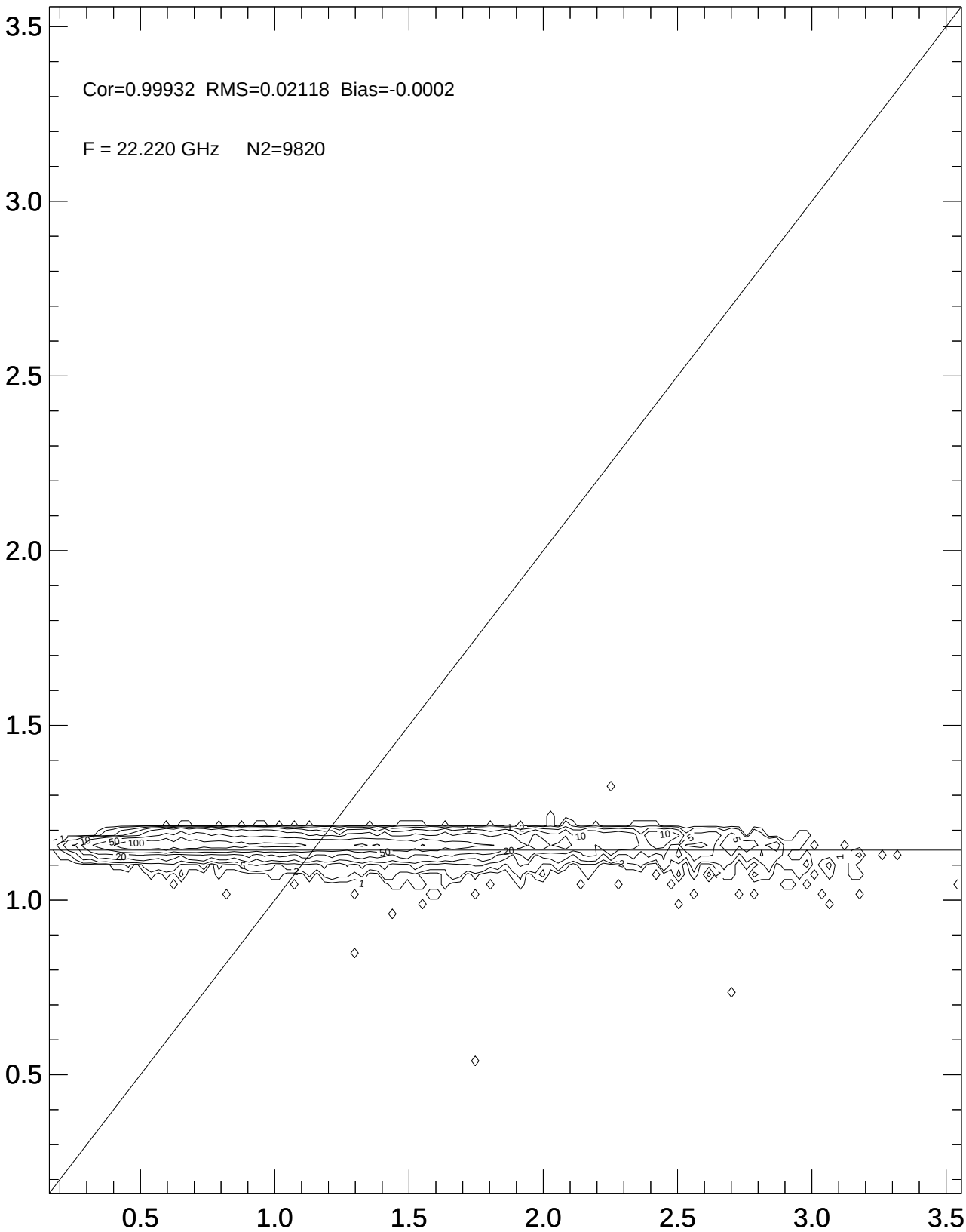

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0
3.5

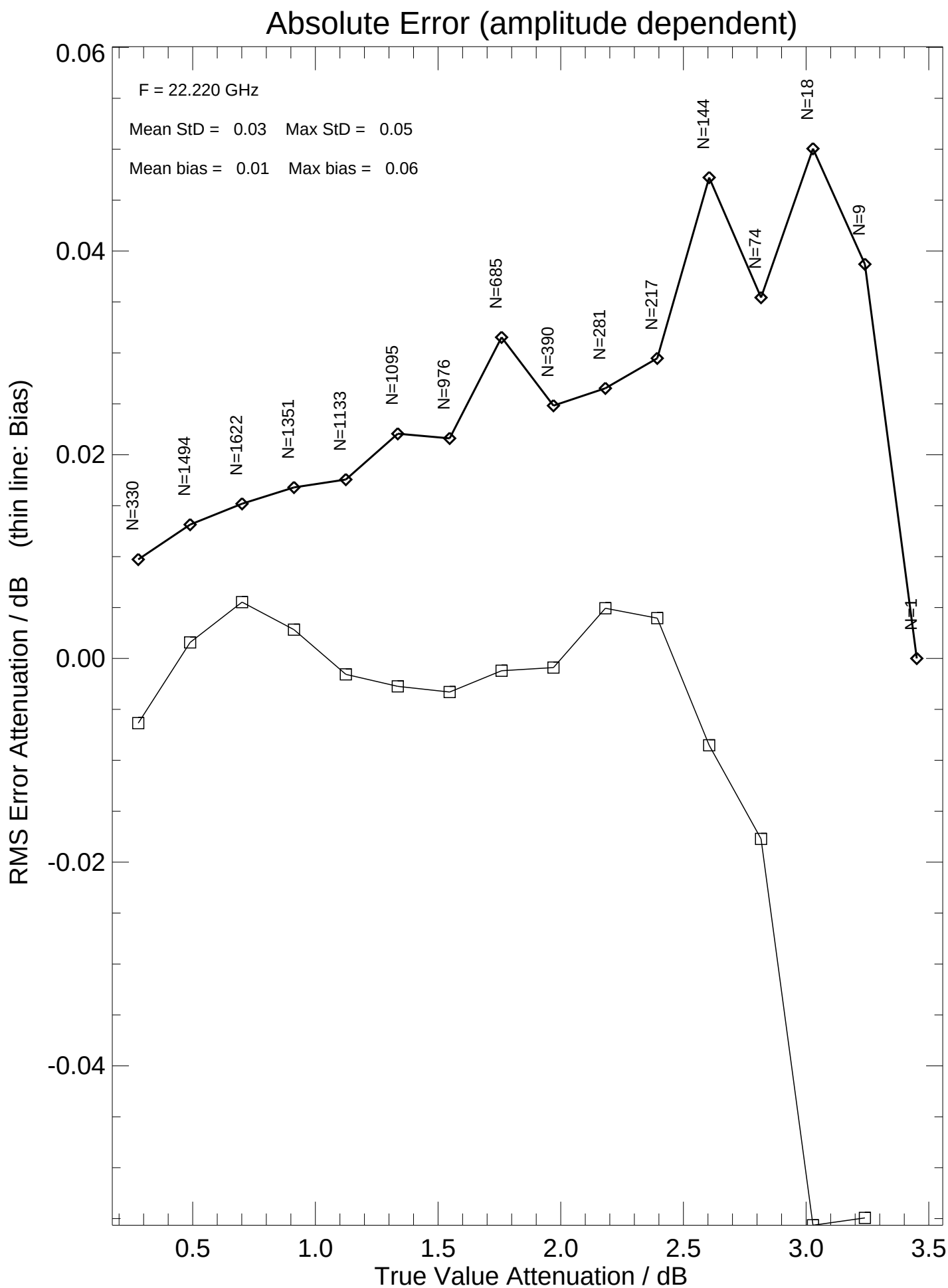

Cor=0.99932 RMS=0.02118 Bias=-0.0002
F = 22.210 GHz N2=9820
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0
3.5

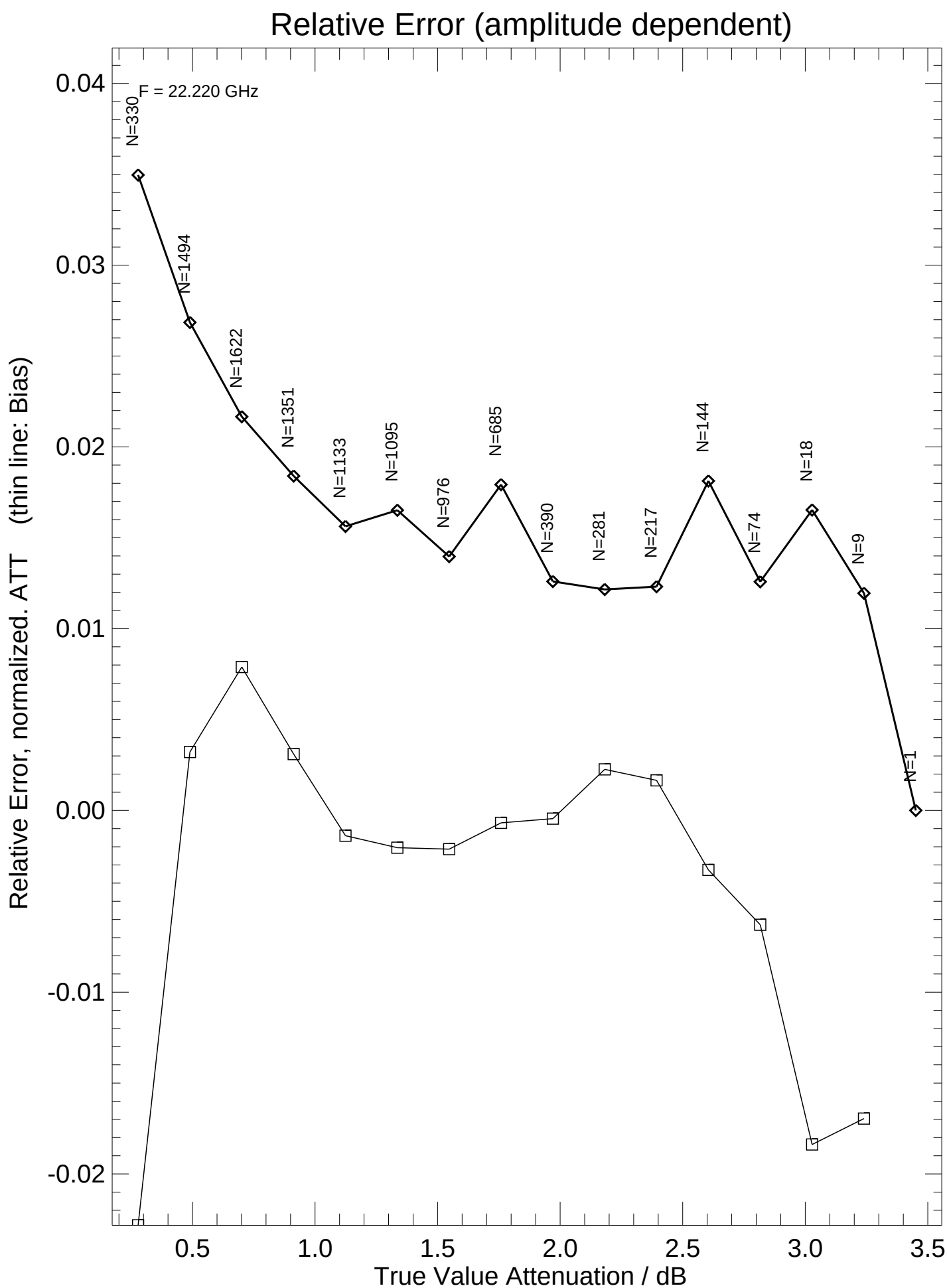

Absolute Error (amplitude dependent)
F = 22.210 GHz
Mean StD = 0.03 Max StD = 0.05
Mean bias = 0.01 Max bias = 0.06
N=330
N=1494
N=1622
N=1351
N=1133
N=1095
N=976
N=685
N=390
N=281
N=217
N=144
N=74
N=18
N=9
N=1
0.06
0.04
0.02
0.00
-0.02
-0.04
0.5
1.0
1.5
2.0
2.5
3.0
3.5
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

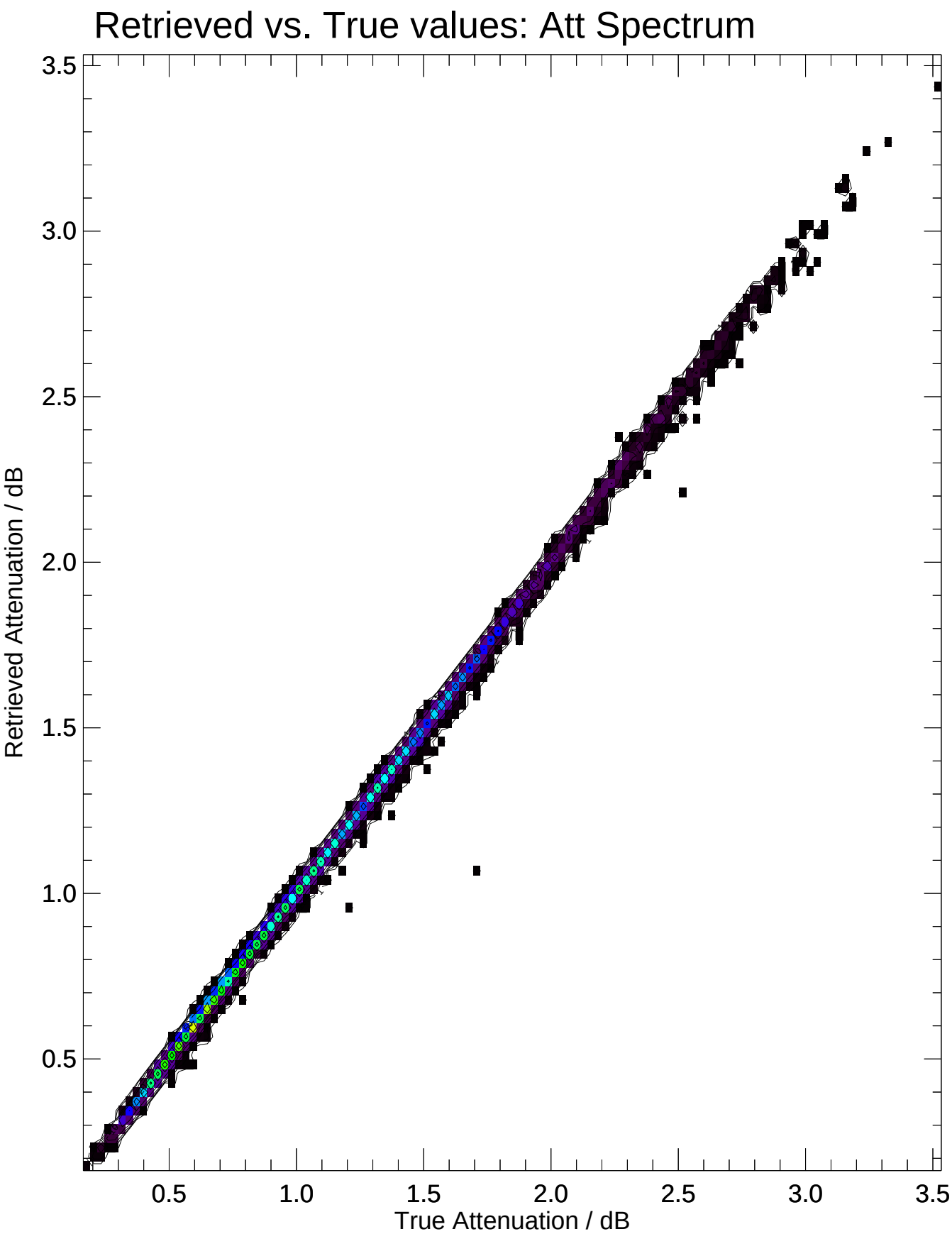

Relative Error (amplitude dependent)
F = 22.210 GHz
N=330
N=1494
N=1622
N=1351
N=1133
N=1095
N=976
N=685
N=390
N=281
N=217
N=144
N=74
N=18
N=9
N=1
0.04
0.03
0.02
0.01
0.00
-0.01
-0.02
0.5
1.0
1.5
2.0
2.5
3.0
3.5
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

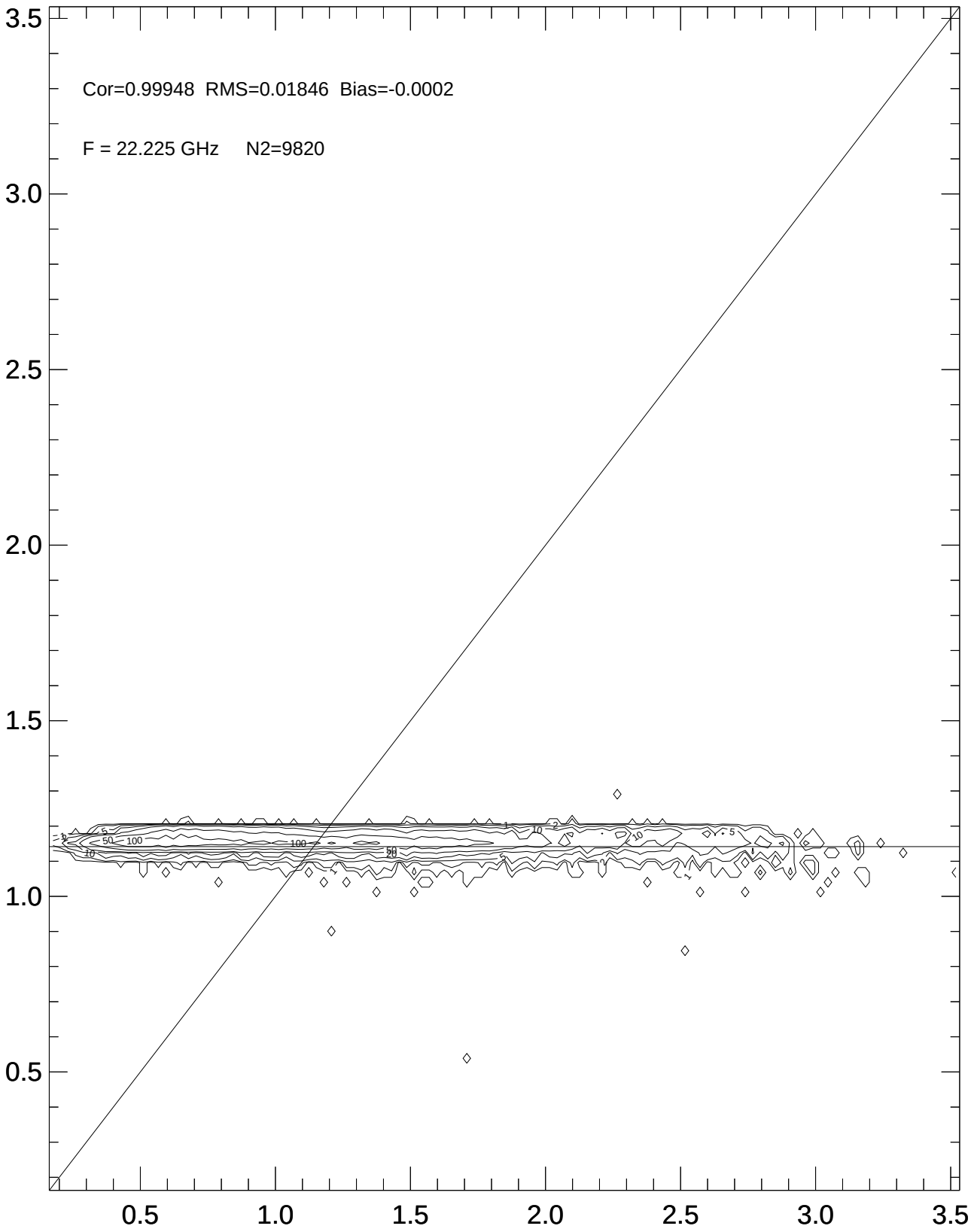

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0
3.5

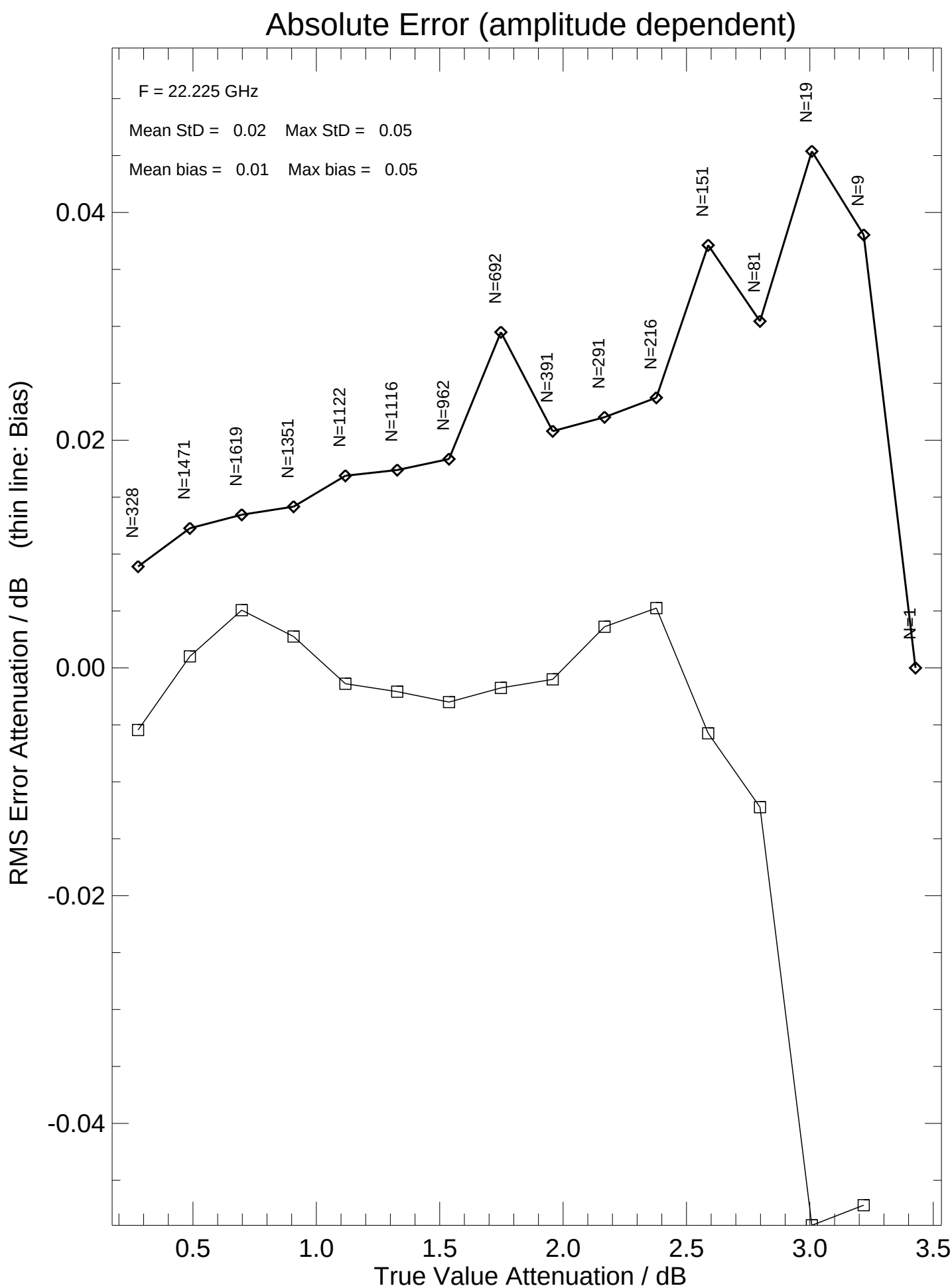

Cor=0.99932 RMS=0.02118 Bias=-0.0002
F = 22.220 GHz N2=9820
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0
3.5

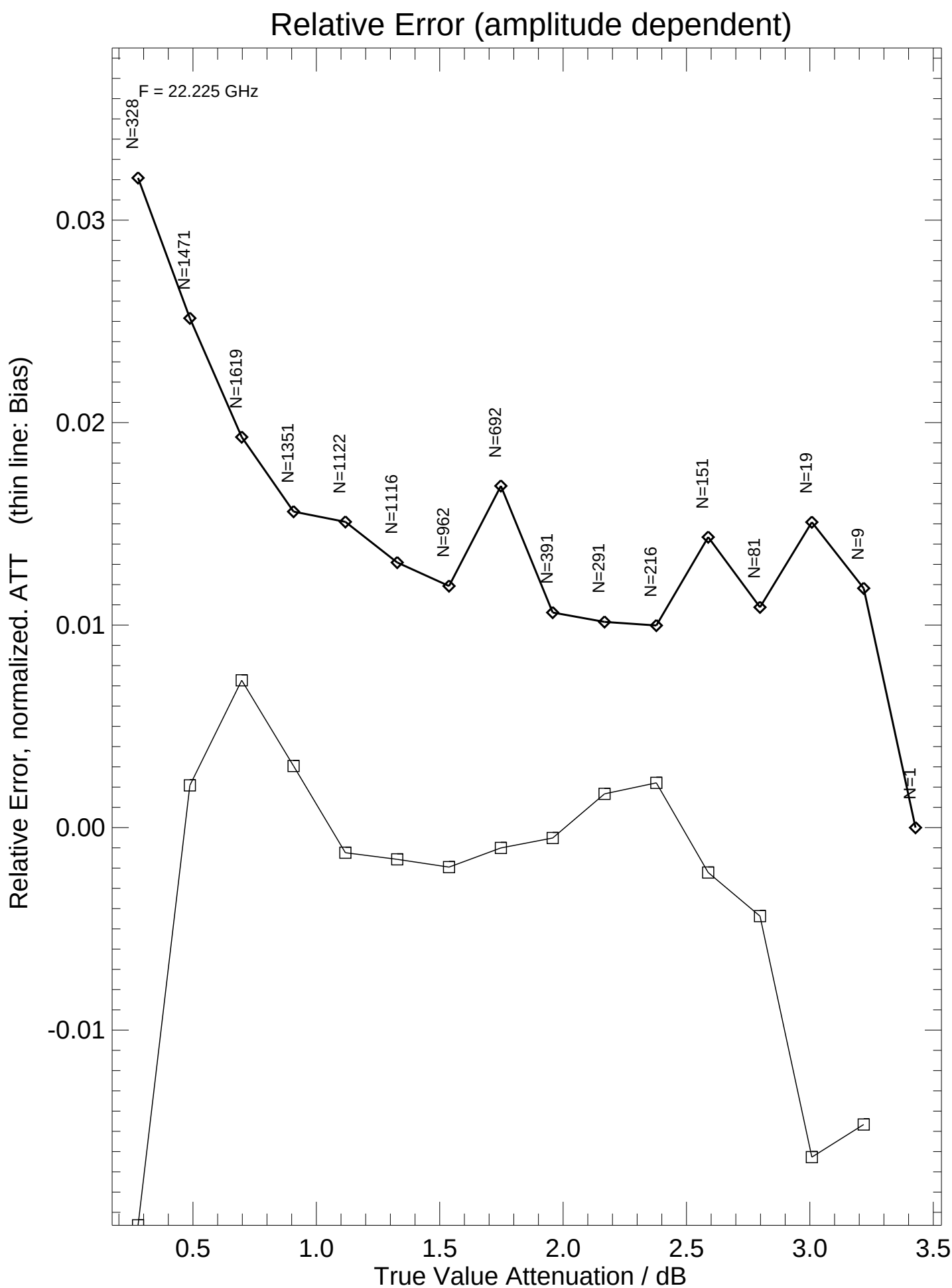

Absolute Error (amplitude dependent)
F = 22.220 GHz
Mean StD = 0.03 Max StD = 0.05
Mean bias = 0.01 Max bias = 0.06
N=330
N=1494
N=1622
N=1351
N=1133
N=1095
N=976
N=685
N=390
N=281
N=217
N=144
N=74
N=18
N=9
N=1
0.06
0.04
0.02
0.00
-0.02
-0.04
0.5
1.0
1.5
2.0
2.5
3.0
3.5
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

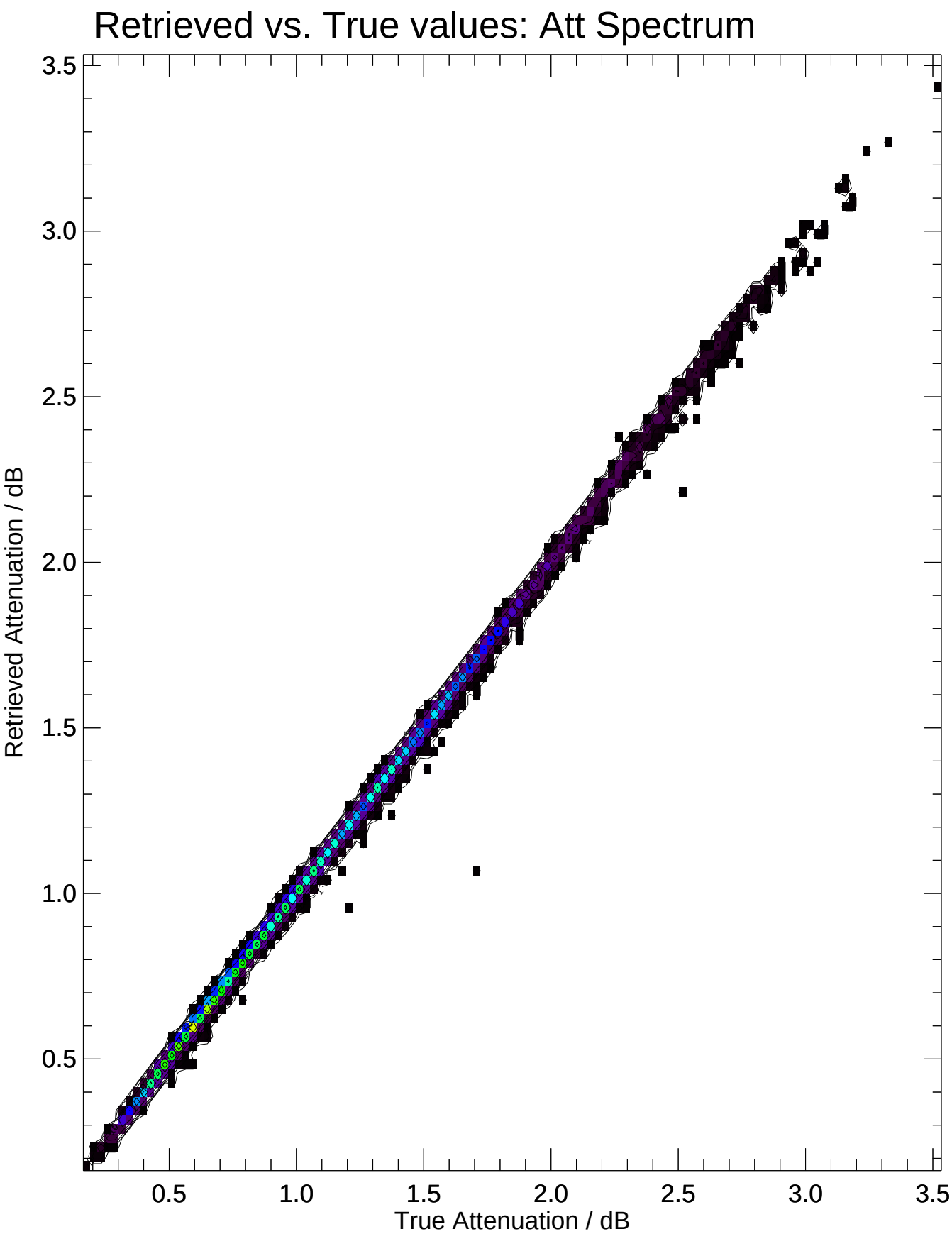

Relative Error (amplitude dependent)
F = 22.220 GHz
N=330
N=1494
N=1622
N=1351
N=1133
N=1095
N=976
N=685
N=390
N=281
N=217
N=144
N=74
N=18
N=9
N=1
0.04
0.03
0.02
0.01
0.00
-0.01
-0.02
0.5
1.0
1.5
2.0
2.5
3.0
3.5
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

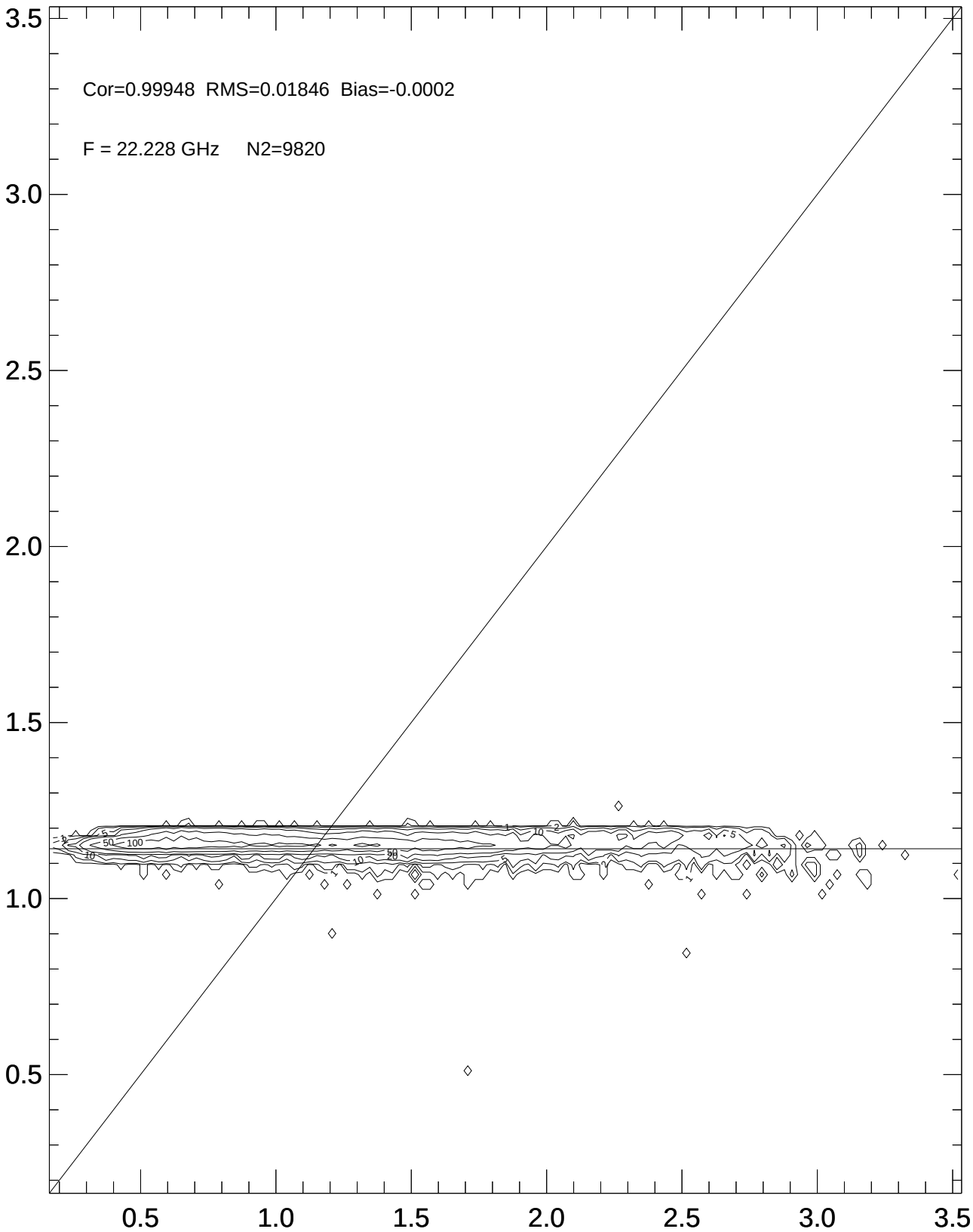

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0
3.5

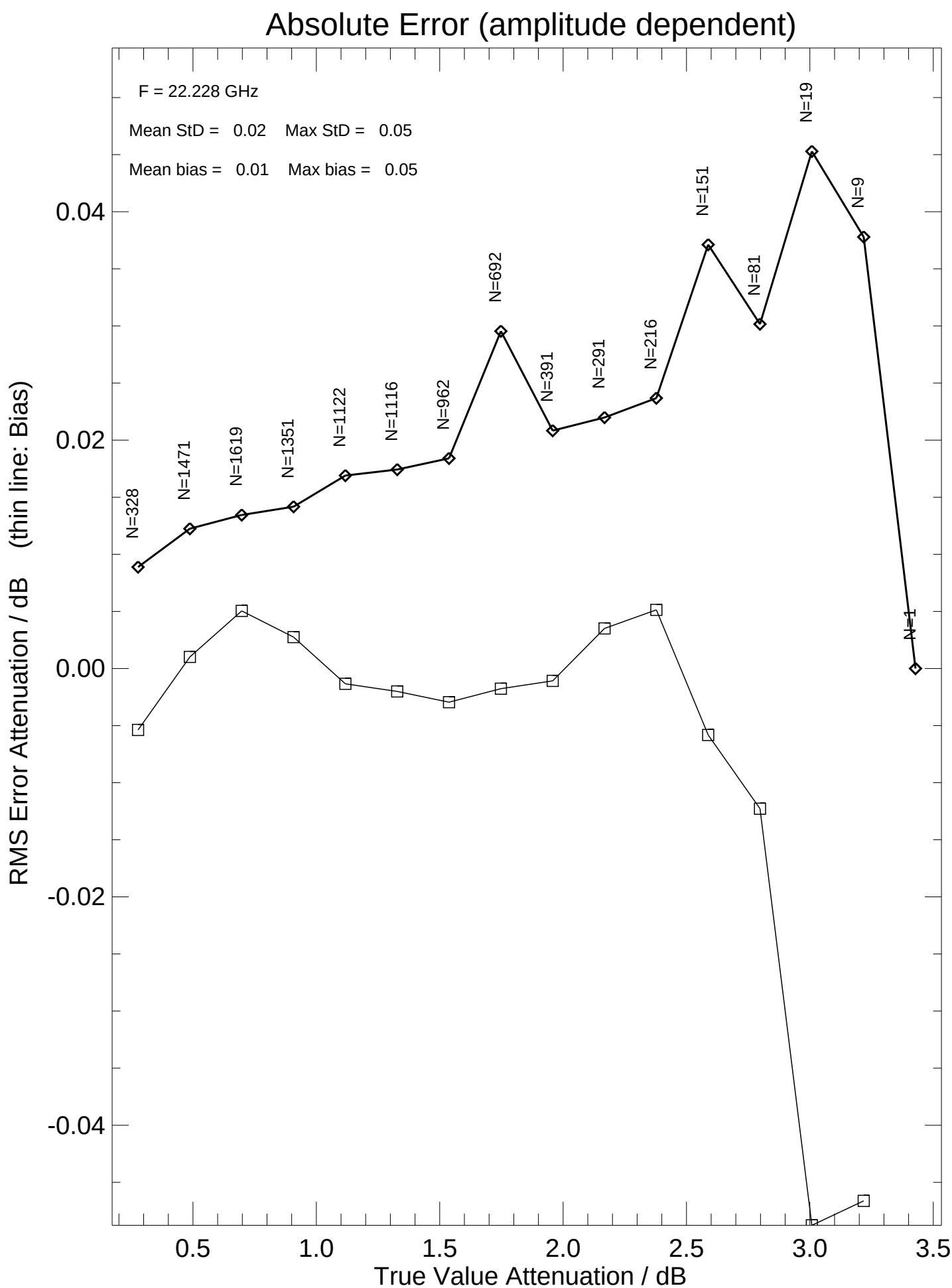

Cor=0.99948 RMS=0.01846 Bias=-0.0002
F = 22.225 GHz N2=9820
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0
3.5

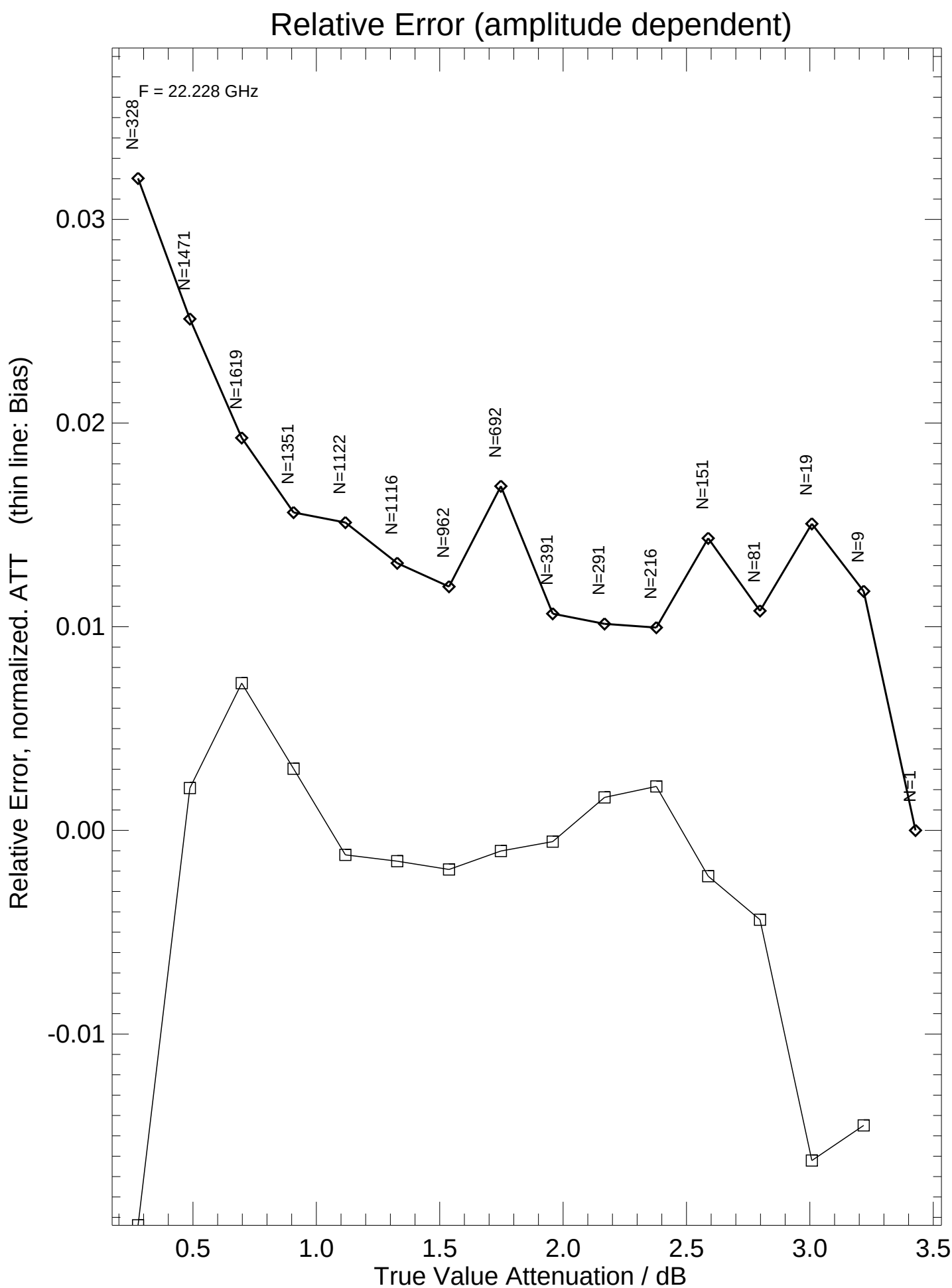

Absolute Error (amplitude dependent)
F = 22.225 GHz
Mean StD = 0.02 Max StD = 0.05
Mean bias = 0.01 Max bias = 0.05
N=328
N=1471
N=1619
N=1351
N=1122
N=1116
N=962
N=692
N=391
N=291
N=216
N=151
N=81
N=19
N=9
N=1
0.04
0.02
0.00
-0.02
-0.04
0.5
1.0
1.5
2.0
2.5
3.0
3.5
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

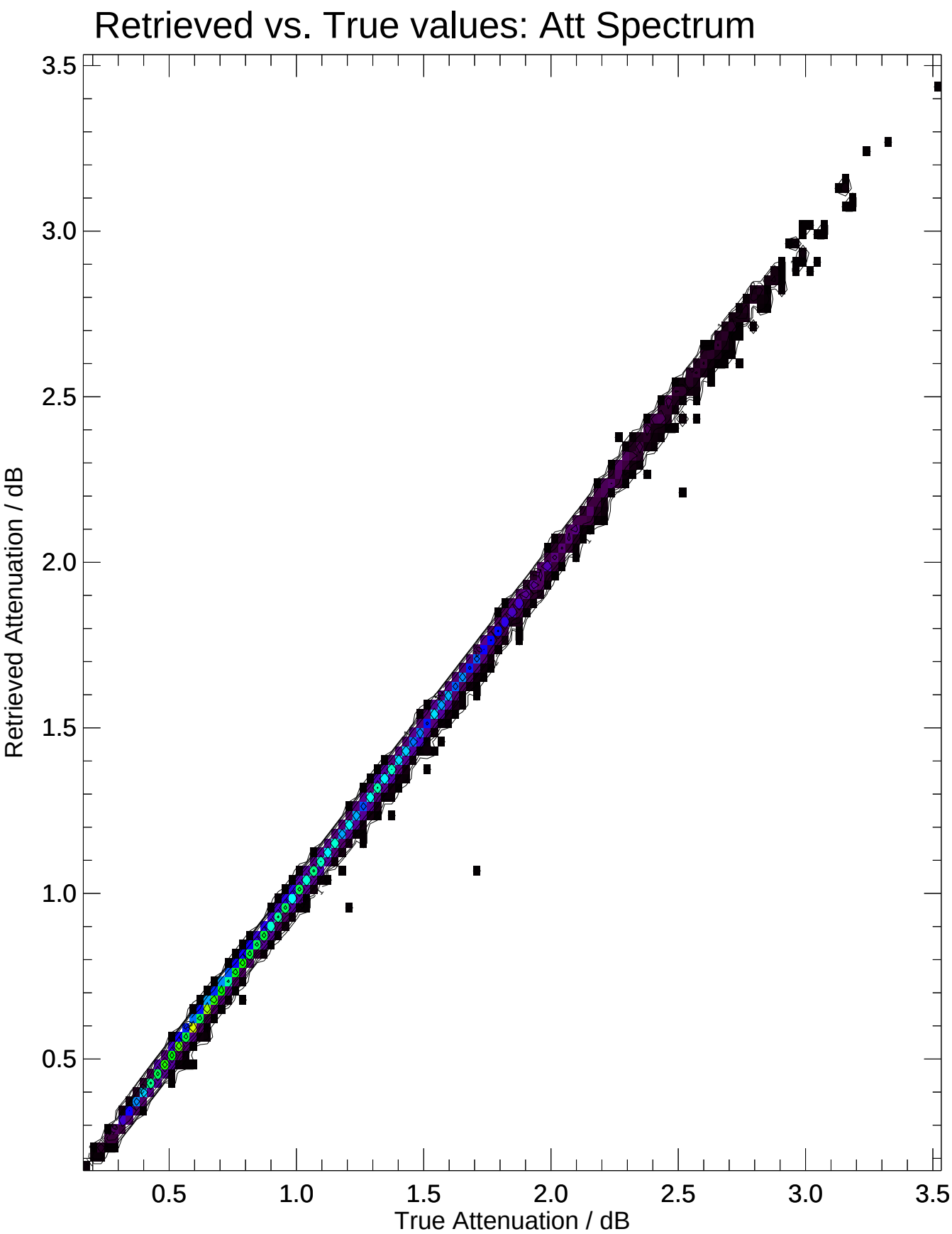

Relative Error (amplitude dependent)
F = 22.225 GHz
N=328
N=1471
N=1619
N=1351
N=1122
N=1116
N=962
N=692
N=391
N=291
N=216
N=151
N=81
N=19
N=9
N=1
0.03
0.02
0.01
0.00
-0.01
0.5
1.0
1.5
2.0
2.5
3.0
3.5
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

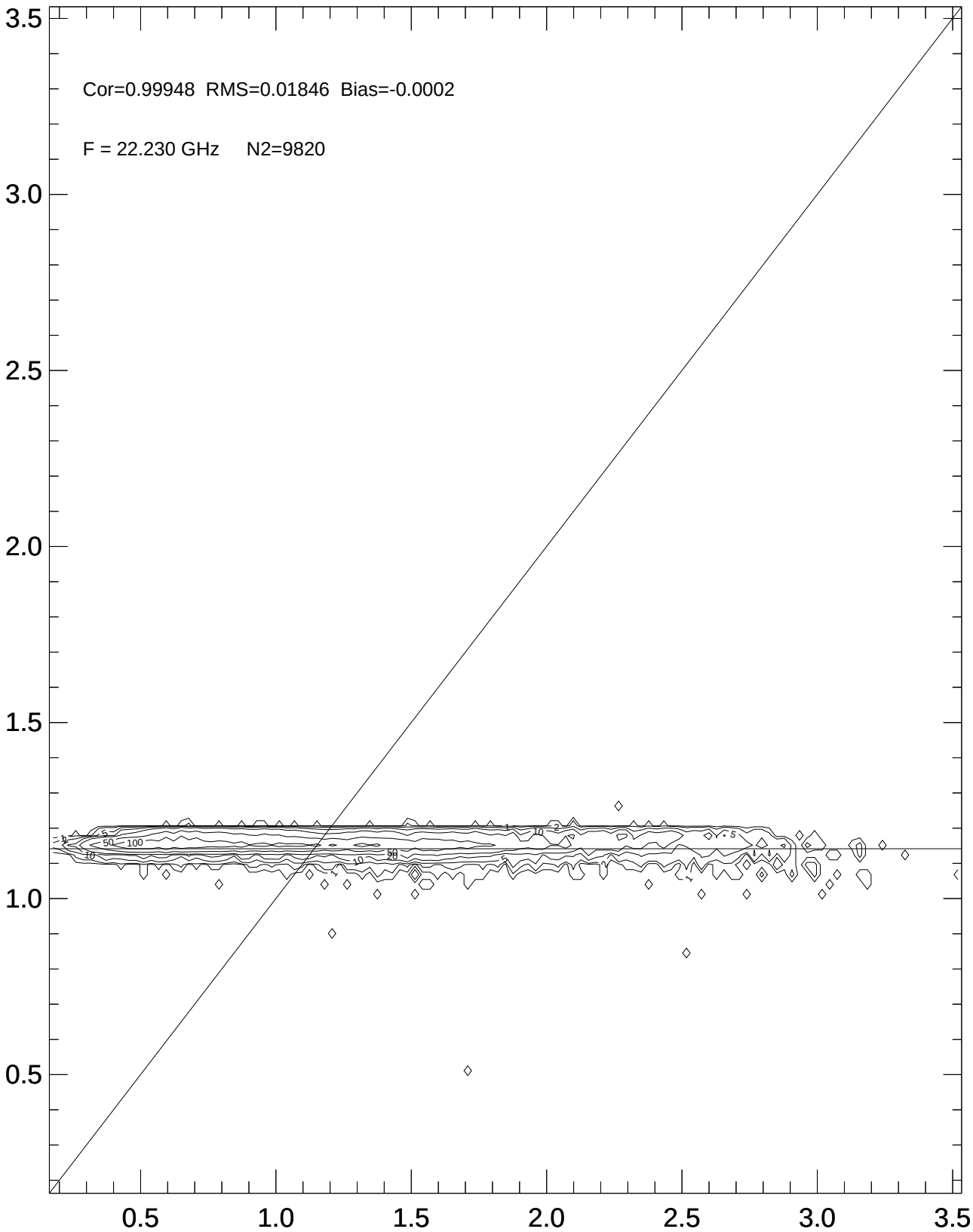

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0
3.5

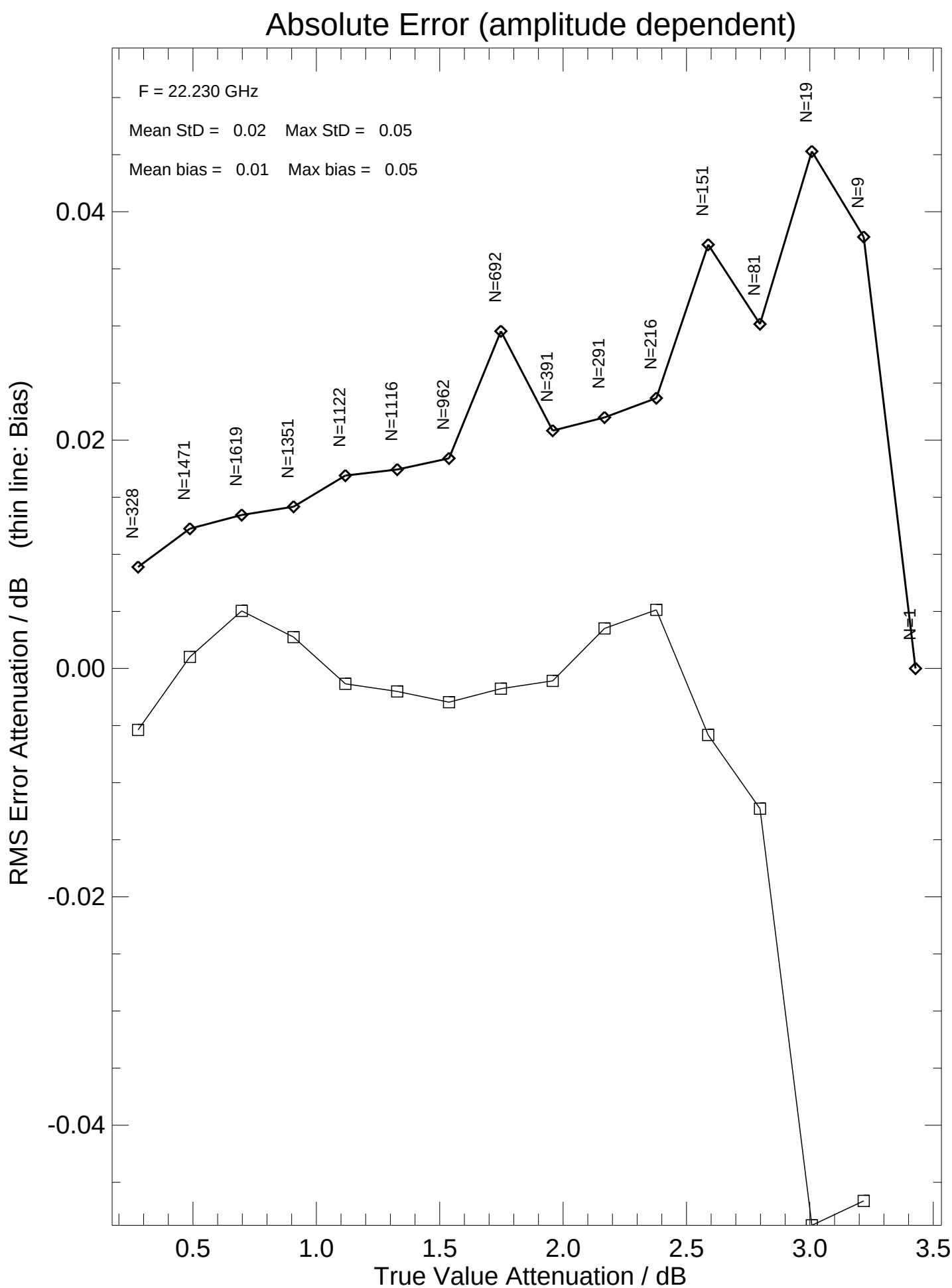

Cor=0.99948 RMS=0.01846 Bias=-0.0002
F = 22.228 GHz N2=9820
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0
3.5

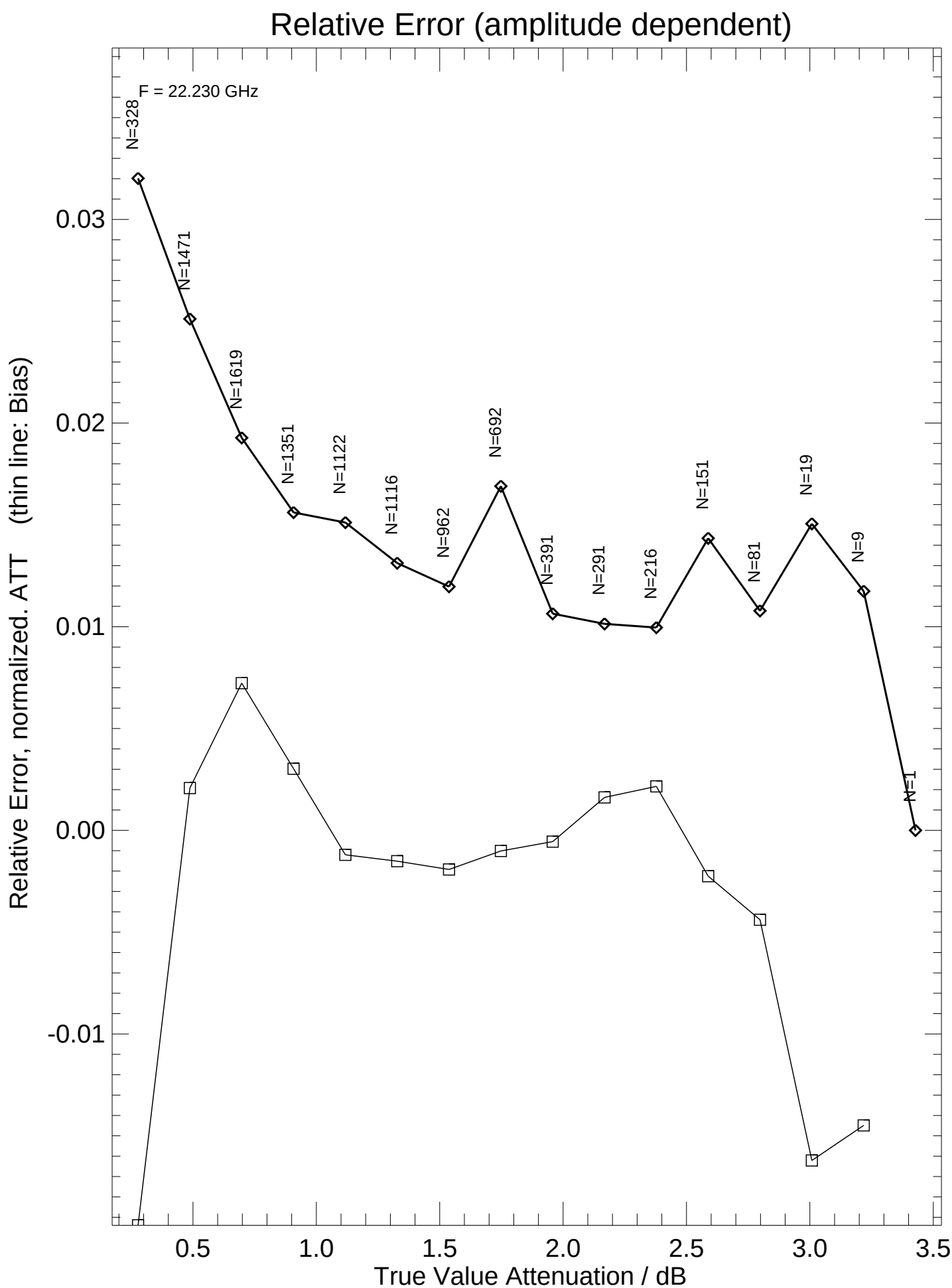

Absolute Error (amplitude dependent)
F = 22.228 GHz
Mean StD = 0.02 Max StD = 0.05
Mean bias = 0.01 Max bias = 0.05
N=328
N=1471
N=1619
N=1351
N=1122
N=1116
N=962
N=692
N=391
N=291
N=216
N=151
N=81
N=19
N=9
N=1
0.04
0.02
0.00
-0.02
-0.04
0.5
1.0
1.5
2.0
2.5
3.0
3.5
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

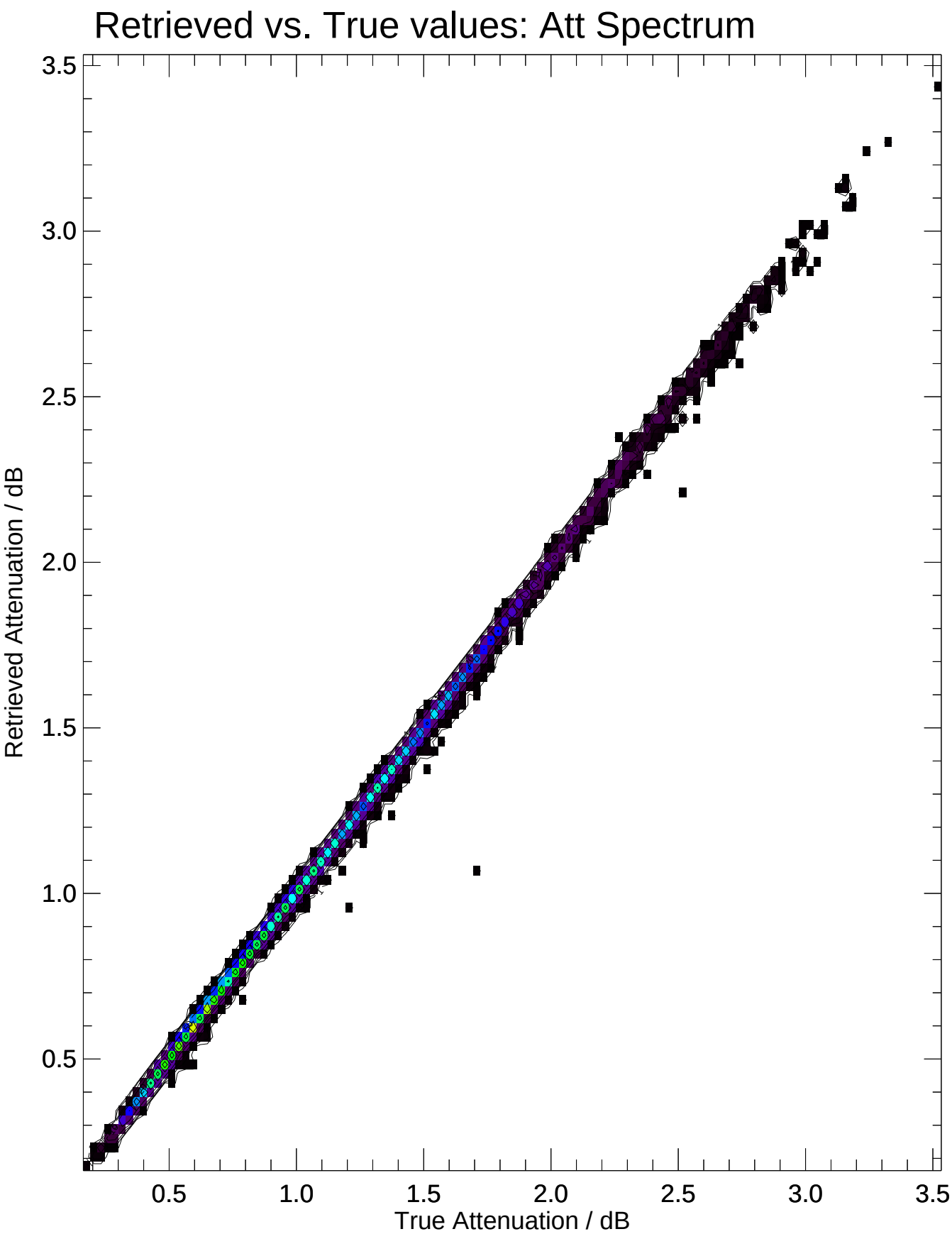

Relative Error (amplitude dependent)
F = 22.228 GHz
N=328
N=1471
N=1619
N=1351
N=1122
N=1116
N=962
N=692
N=391
N=291
N=216
N=151
N=81
N=19
N=9
N=1
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
3.0
3.5
True Value Attenuation / dB

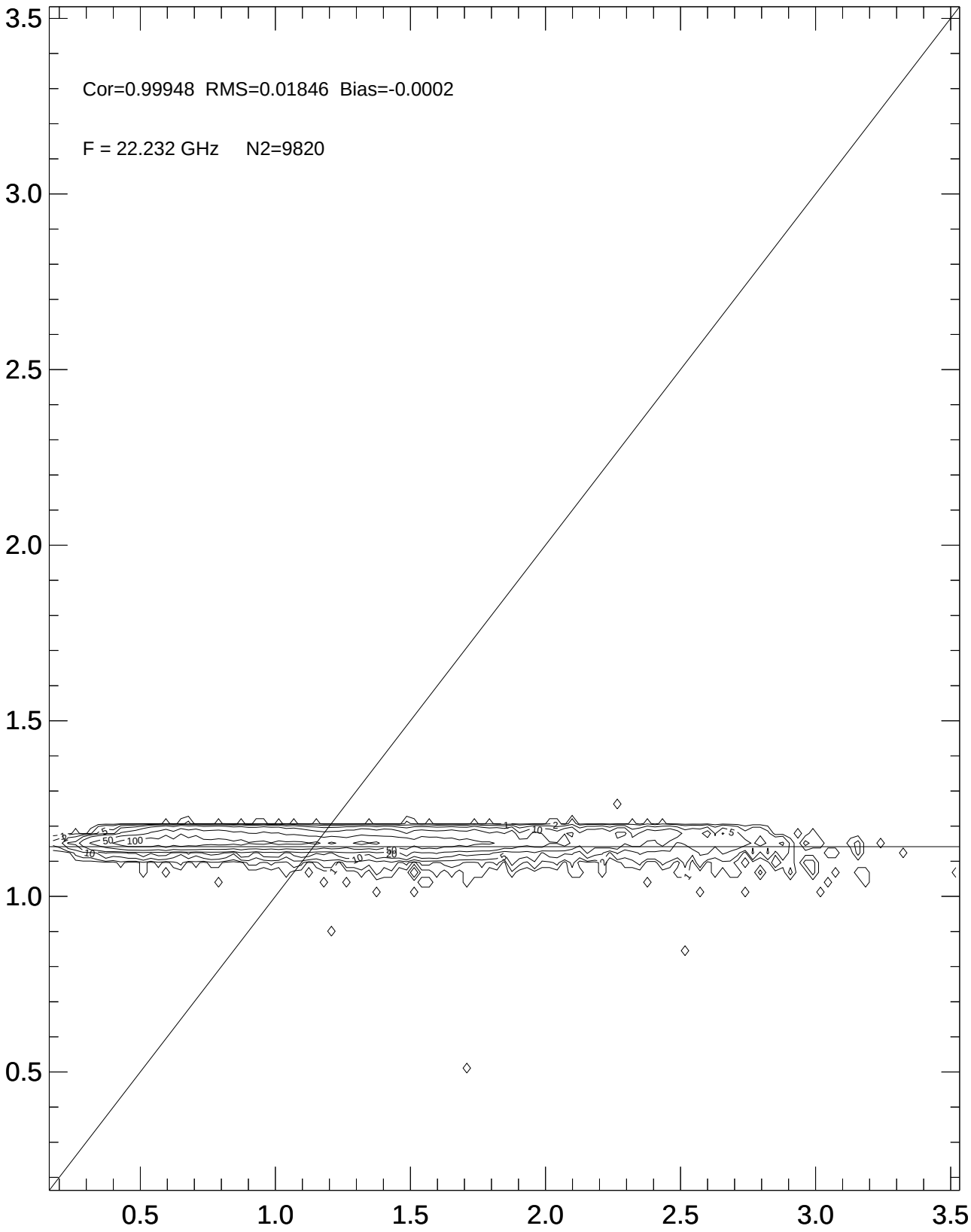

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0
3.5

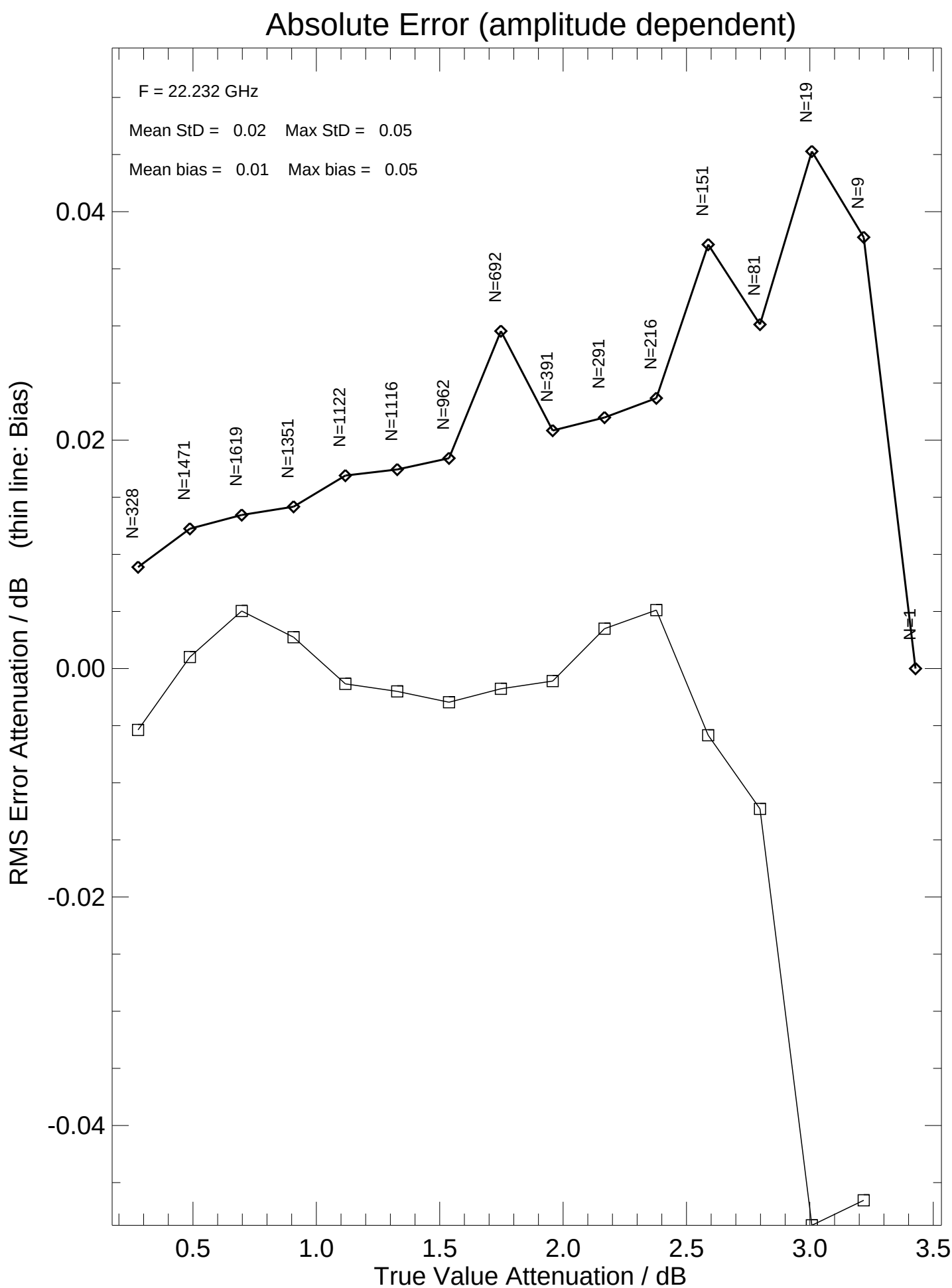

Cor=0.99948 RMS=0.01846 Bias=-0.0002
F = 22.230 GHz N2=9820
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0
3.5

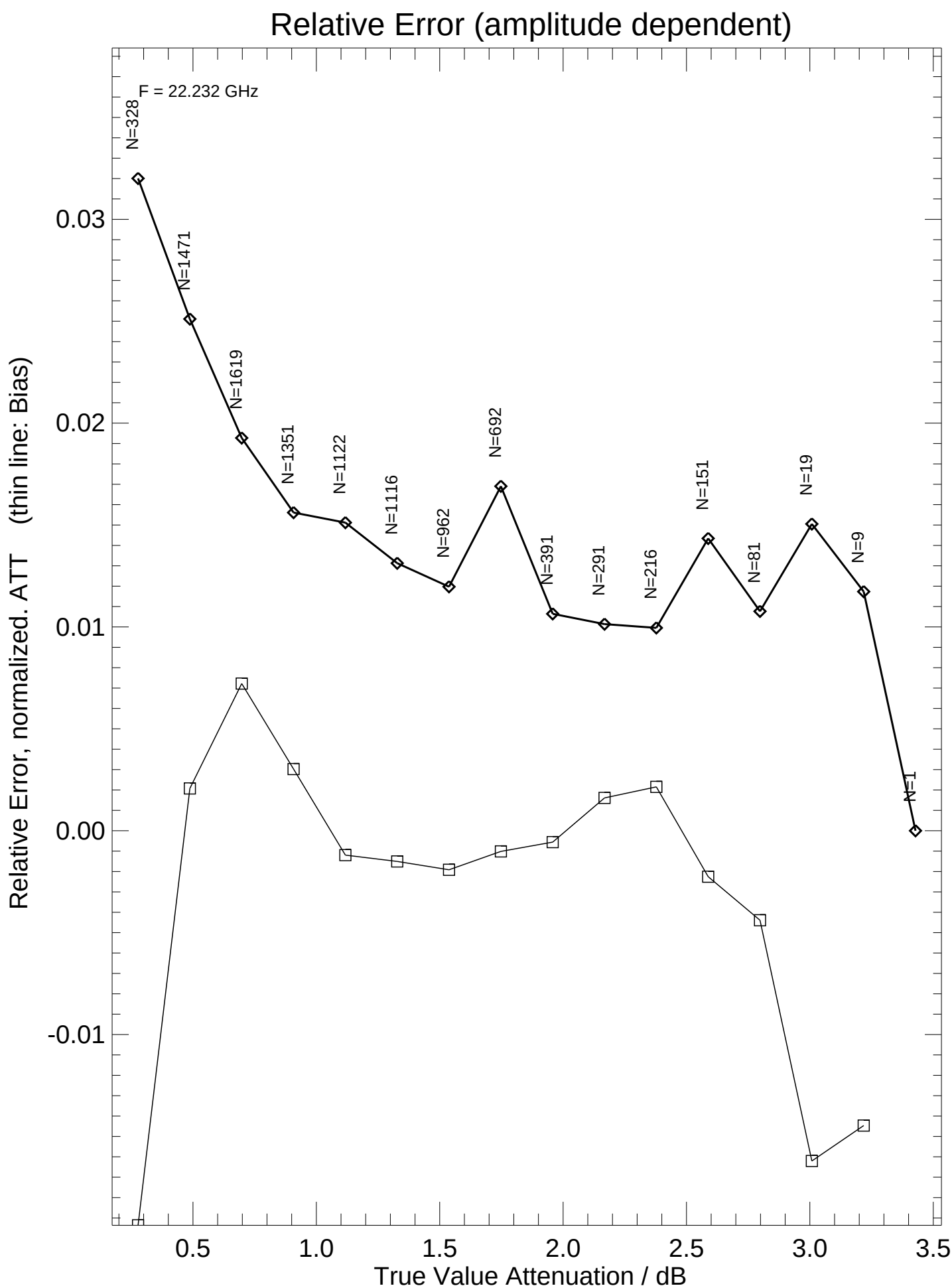

Absolute Error (amplitude dependent)
F = 22.230 GHz
Mean StD = 0.02 Max StD = 0.05
Mean bias = 0.01 Max bias = 0.05
N=328
N=1471
N=1619
N=1351
N=1122
N=1116
N=962
N=692
N=391
N=291
N=216
N=151
N=81
N=19
N=9
N=1
0.04
0.02
0.00
-0.02
-0.04
0.5
1.0
1.5
2.0
2.5
3.0
3.5
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

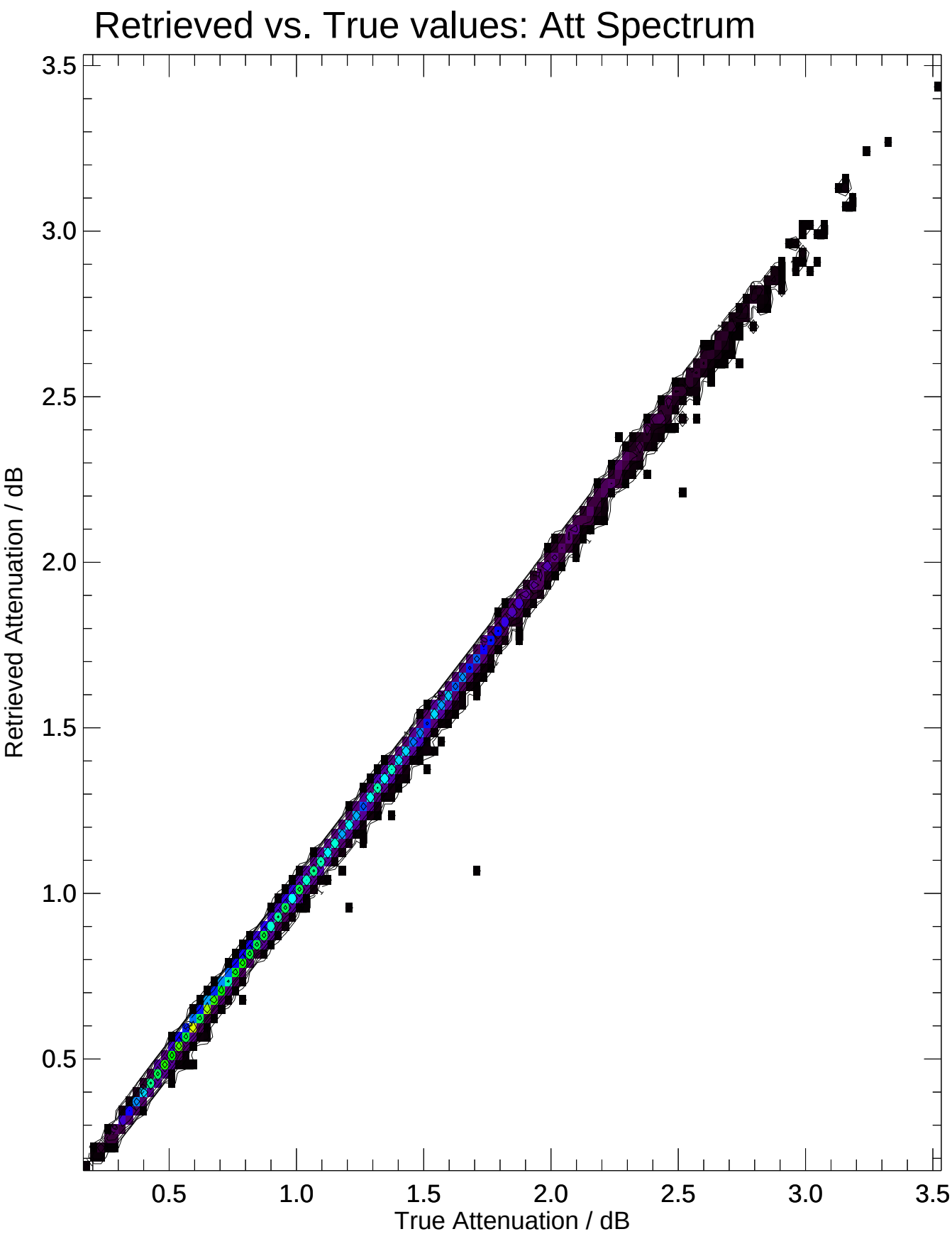

Relative Error (amplitude dependent)
F = 22.230 GHz
N=328
N=1471
N=1619
N=1351
N=1122
N=1116
N=962
N=692
N=391
N=291
N=216
N=151
N=81
N=19
N=9
N=1
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
3.0
3.5
True Value Attenuation / dB

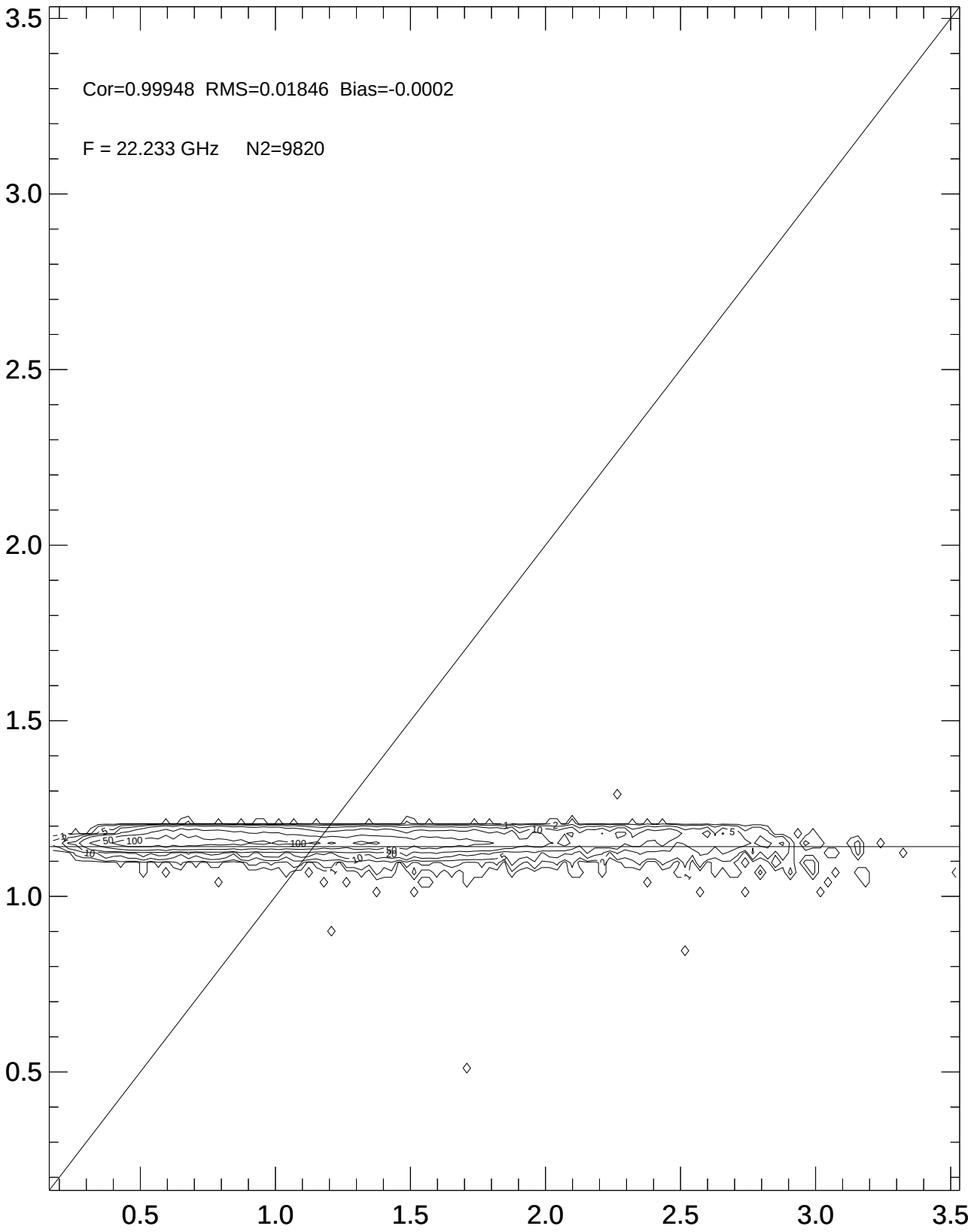

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0
3.5

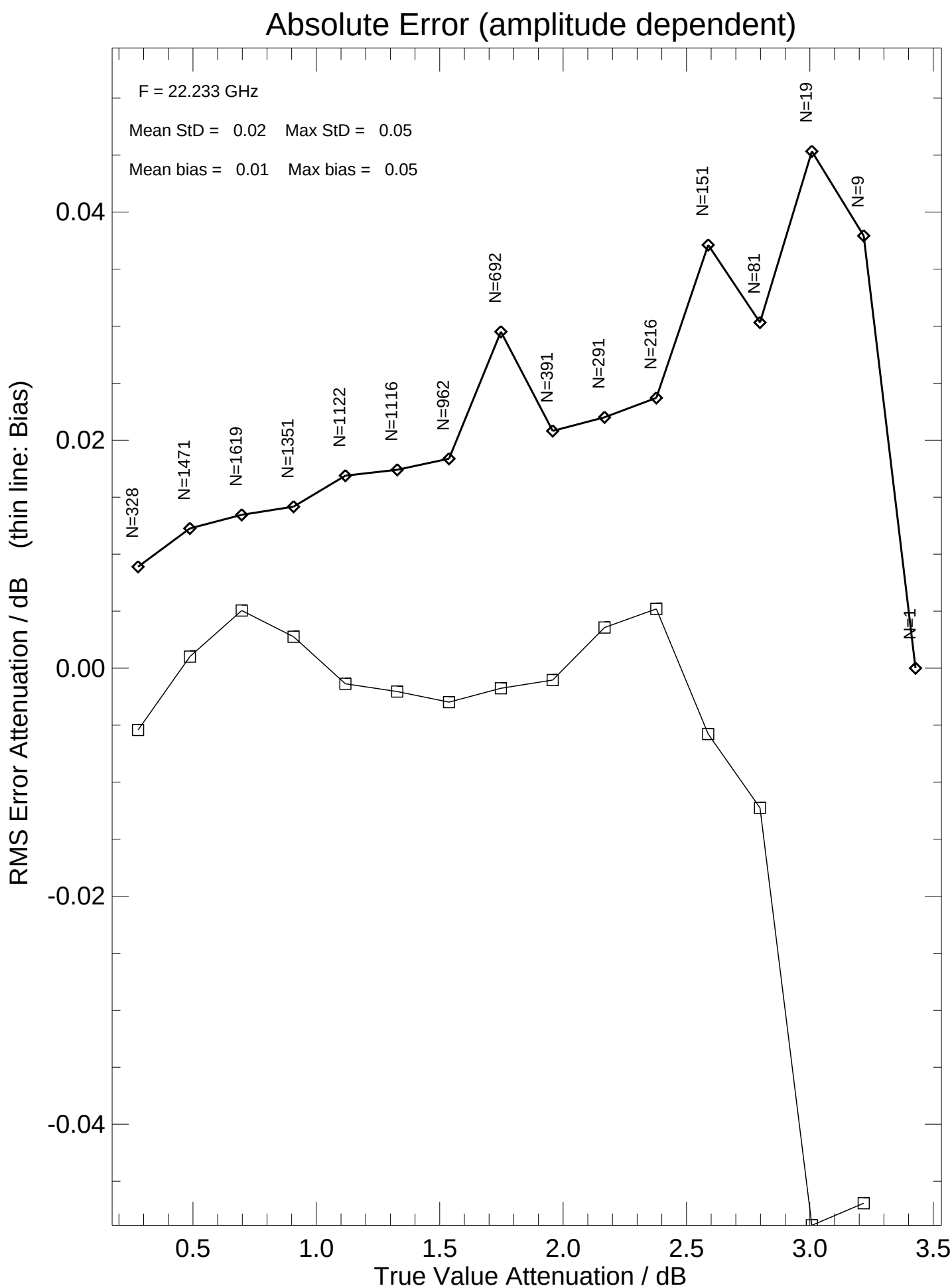

Cor=0.99948 RMS=0.01846 Bias=-0.0002
F = 22.232 GHz N2=9820
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0
3.5

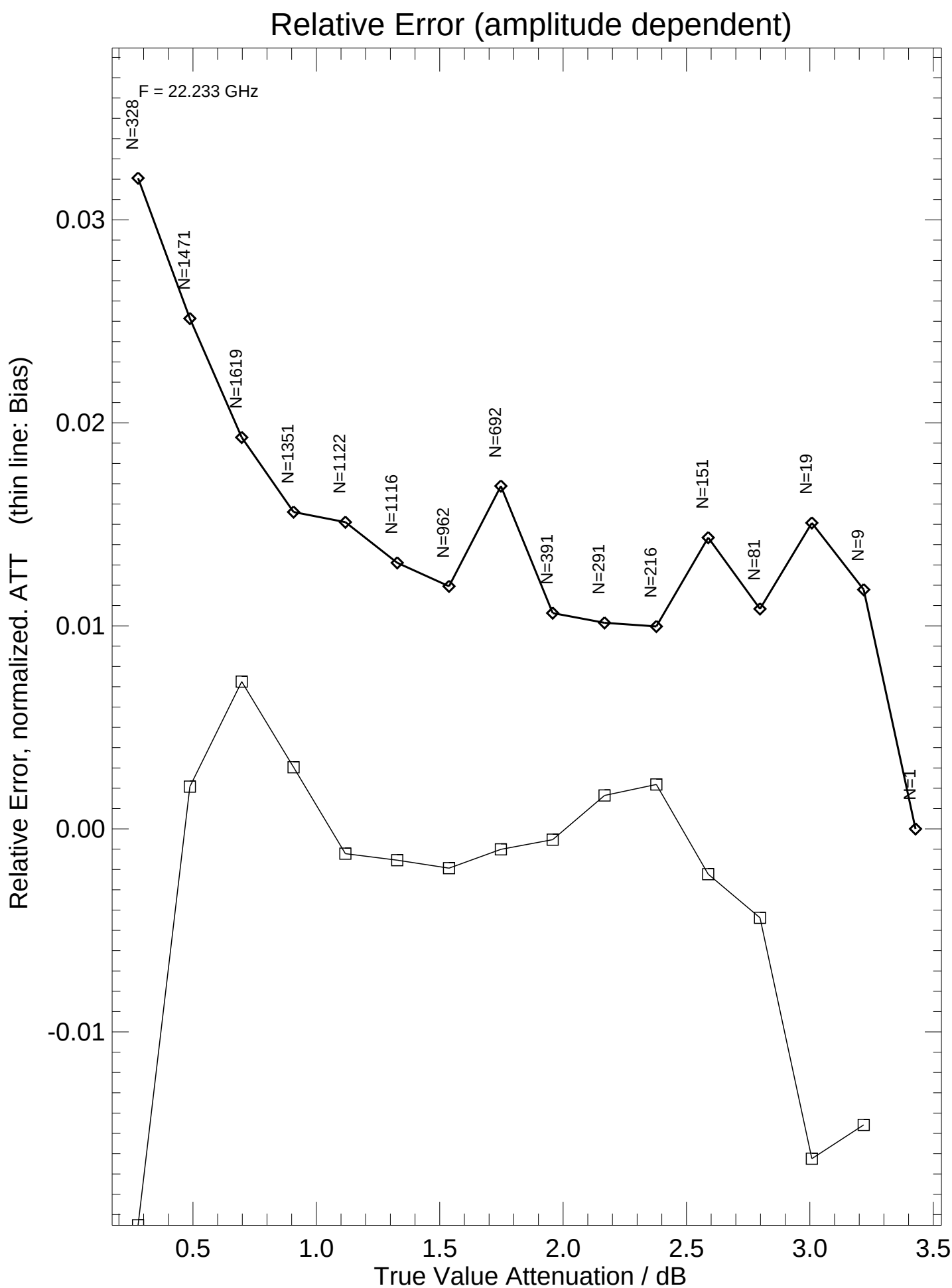

Absolute Error (amplitude dependent)
F = 22.232 GHz
Mean StD = 0.02 Max StD = 0.05
Mean bias = 0.01 Max bias = 0.05
N=328
N=1471
N=1619
N=1351
N=1122
N=1116
N=962
N=692
N=391
N=291
N=216
N=151
N=81
N=19
N=9
N=1
0.04
0.02
0.00
-0.02
-0.04
0.5
1.0
1.5
2.0
2.5
3.0
3.5
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

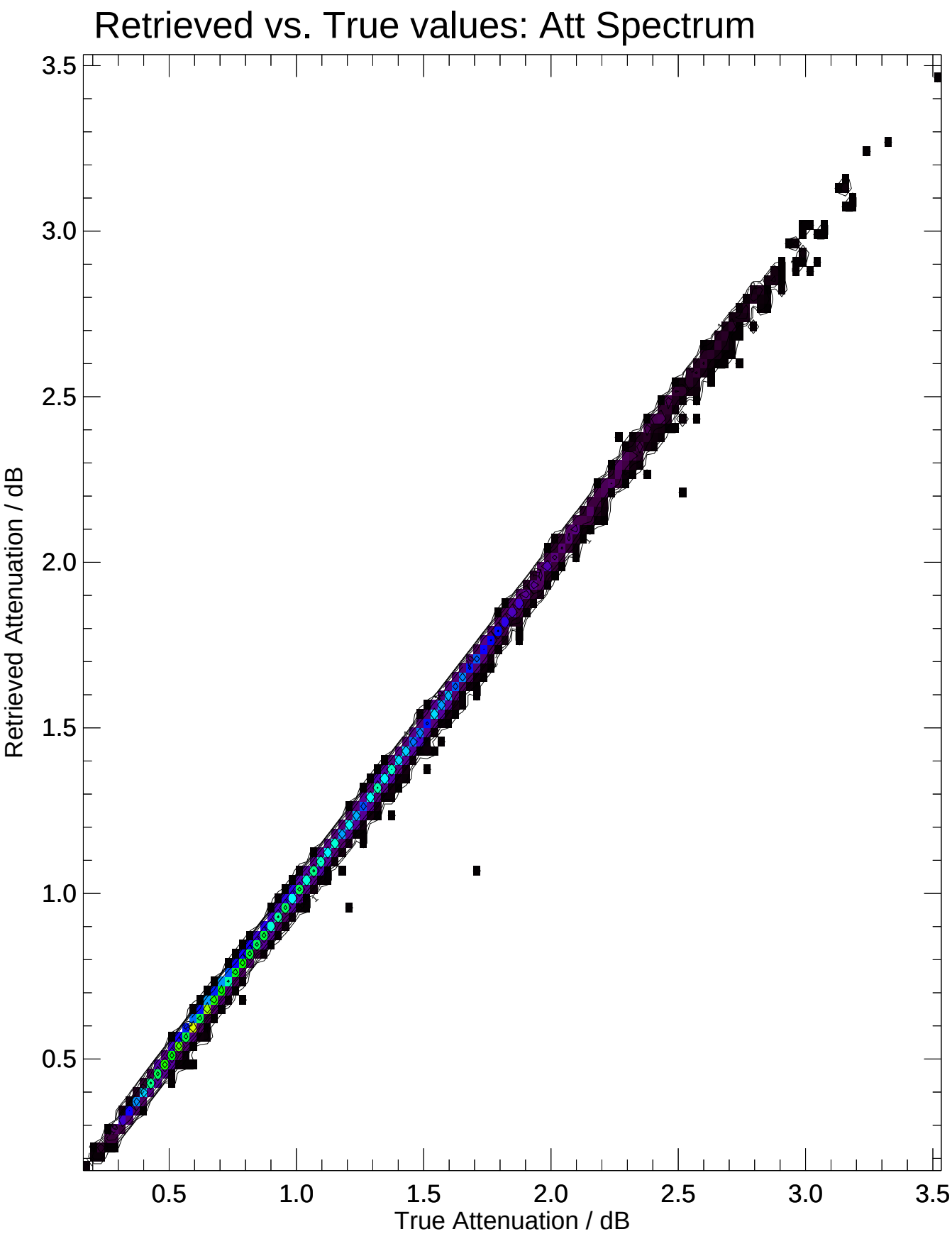

Relative Error (amplitude dependent)
F = 22.232 GHz
N=328
N=1471
N=1619
N=1351
N=1122
N=1116
N=962
N=692
N=391
N=291
N=216
N=151
N=81
N=19
N=9
N=1
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
3.0
3.5
True Value Attenuation / dB

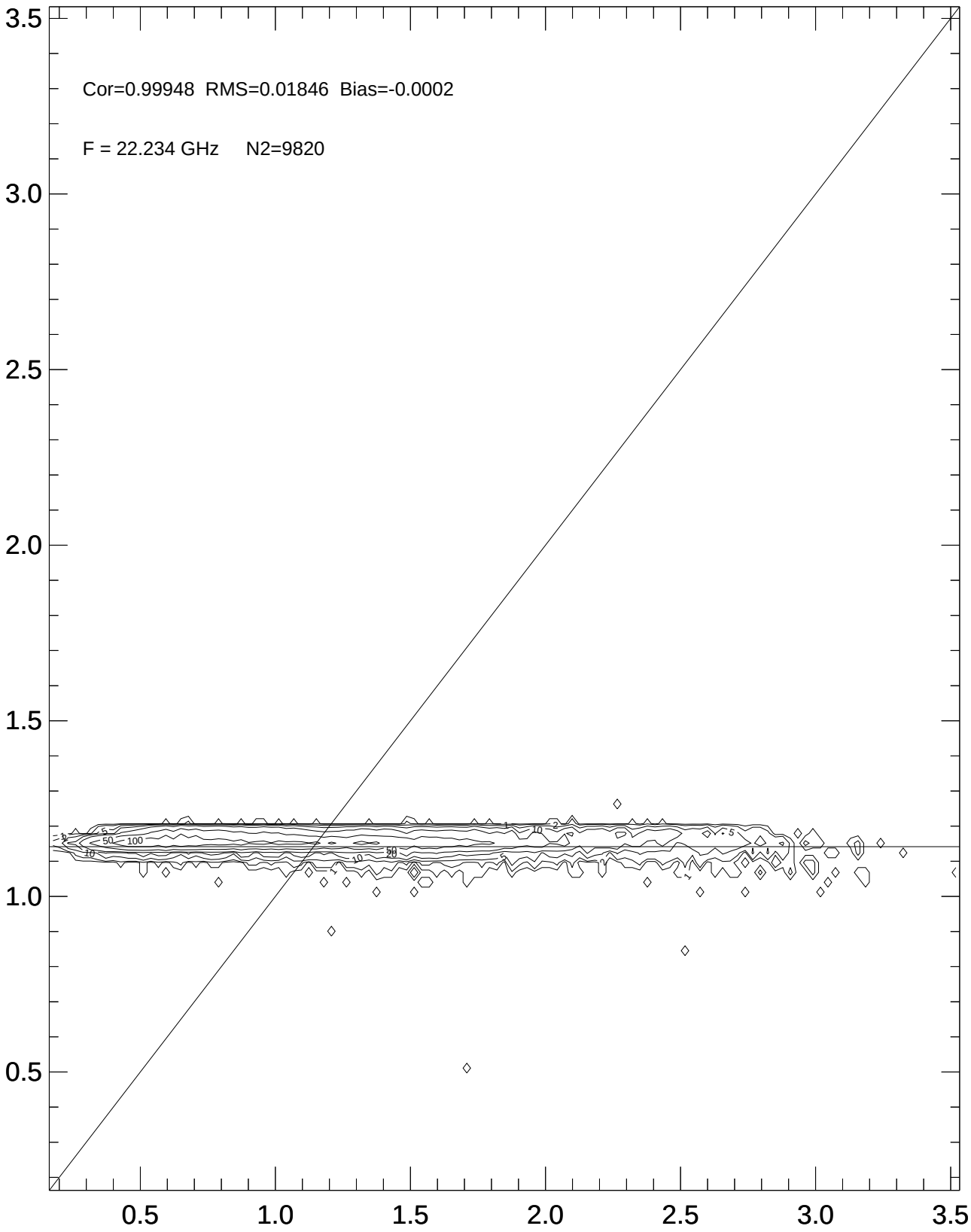

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0
3.5

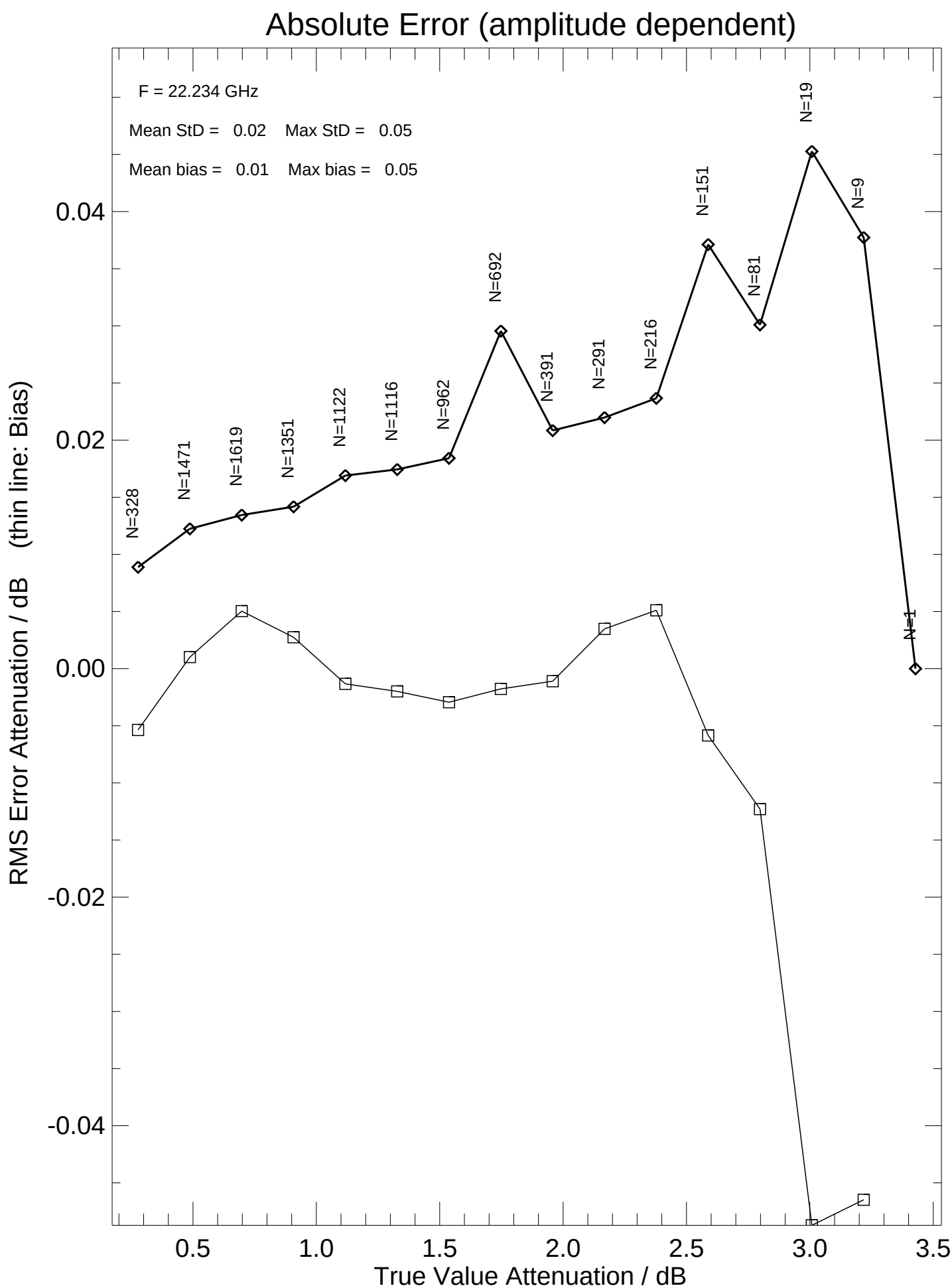

Cor=0.99948 RMS=0.01846 Bias=-0.0002
F = 22.233 GHz N2=9820
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0
3.5

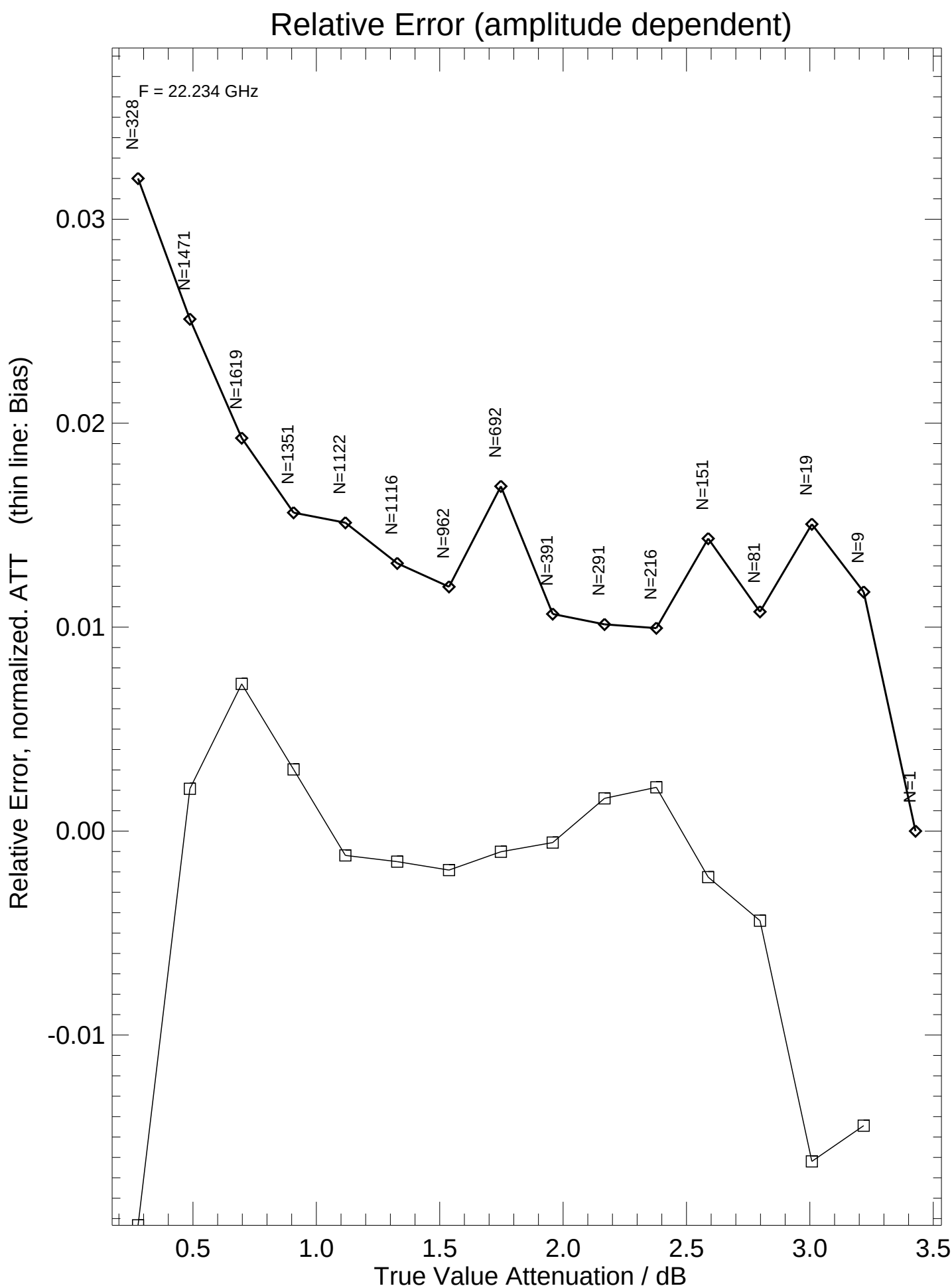

Absolute Error (amplitude dependent)
F = 22.233 GHz
Mean StD = 0.02 Max StD = 0.05
Mean bias = 0.01 Max bias = 0.05
N=328
N=1471
N=1619
N=1351
N=1122
N=1116
N=962
N=692
N=391
N=291
N=216
N=151
N=81
N=19
N=9
N=1
0.04
0.02
0.00
-0.02
-0.04
0.5
1.0
1.5
2.0
2.5
3.0
3.5
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

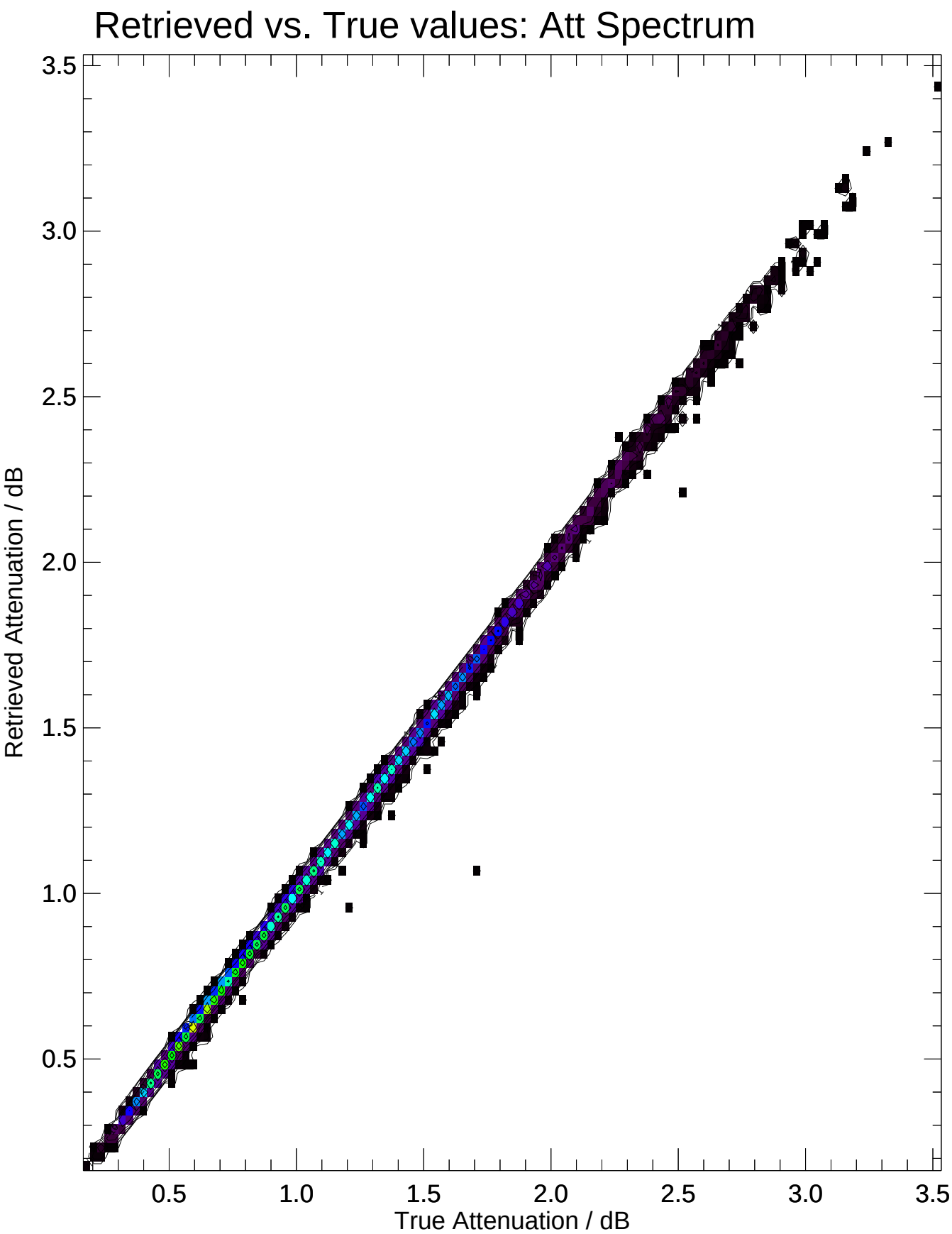

Relative Error (amplitude dependent)
F = 22.233 GHz
N=328
N=1471
N=1619
N=1351
N=1122
N=1116
N=962
N=692
N=391
N=291
N=216
N=151
N=81
N=19
N=9
N=1
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
3.0
3.5
True Value Attenuation / dB

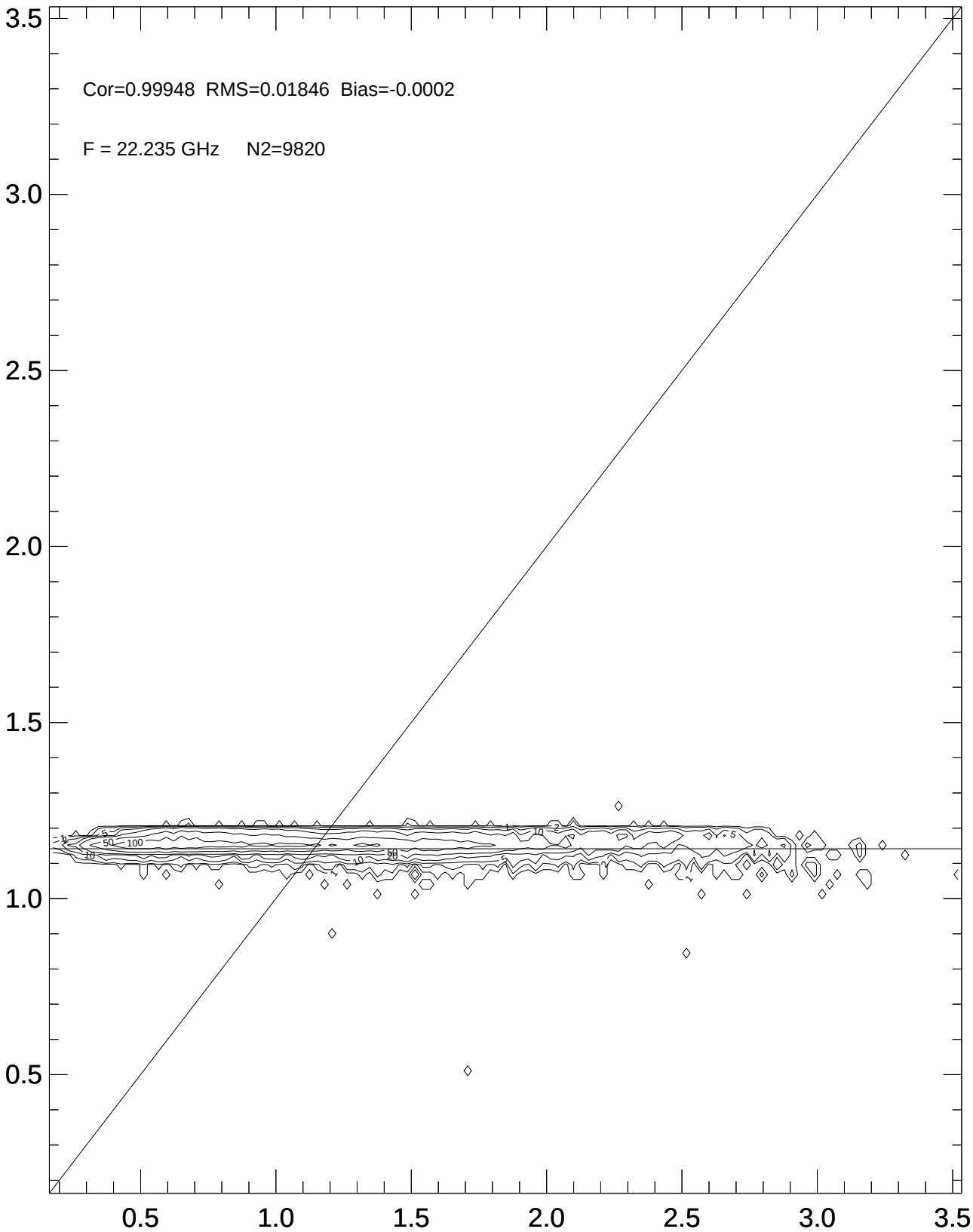

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0
3.5

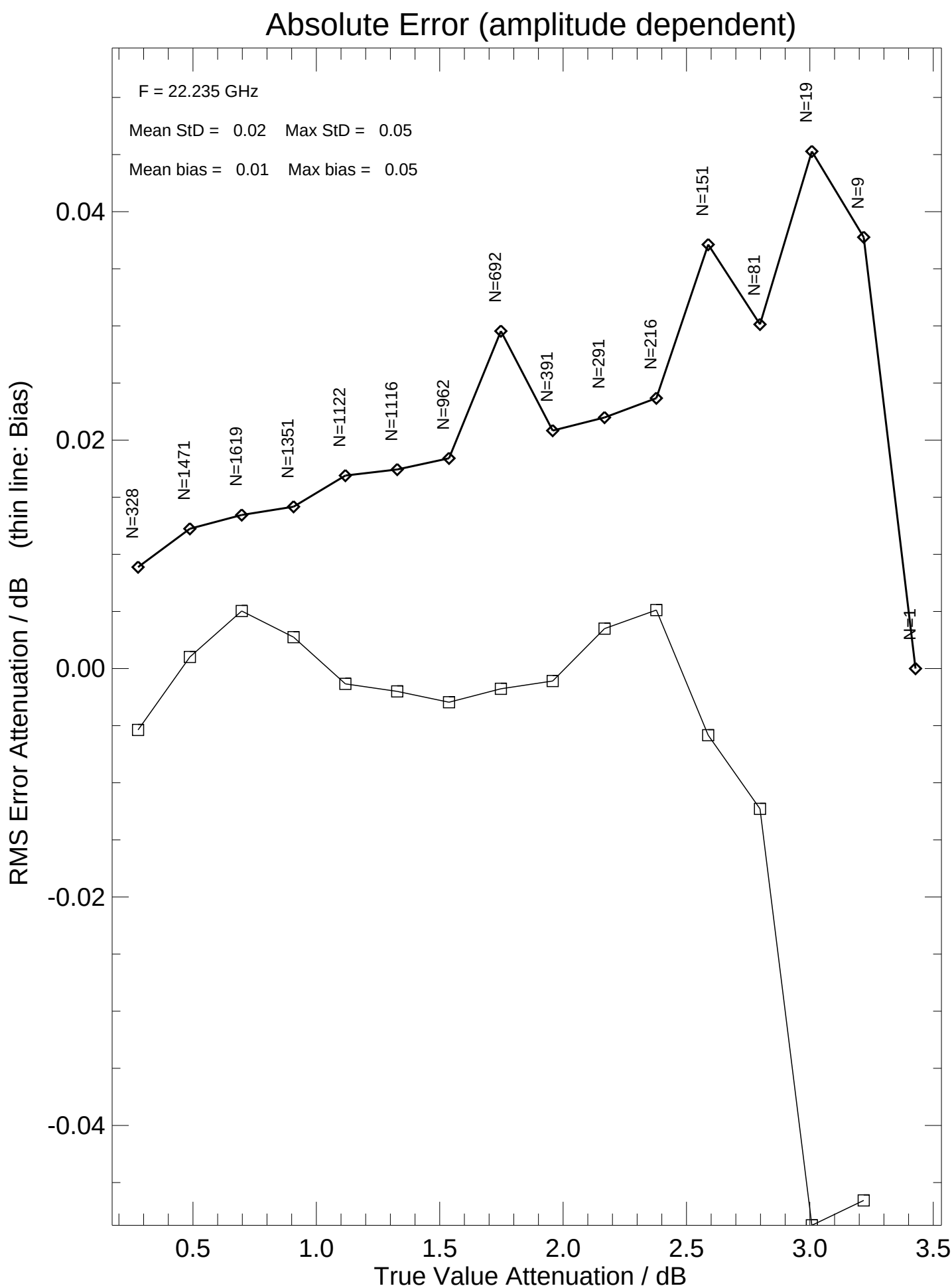

Cor=0.99948 RMS=0.01846 Bias=-0.0002
F = 22.234 GHz N2=9820
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0
3.5

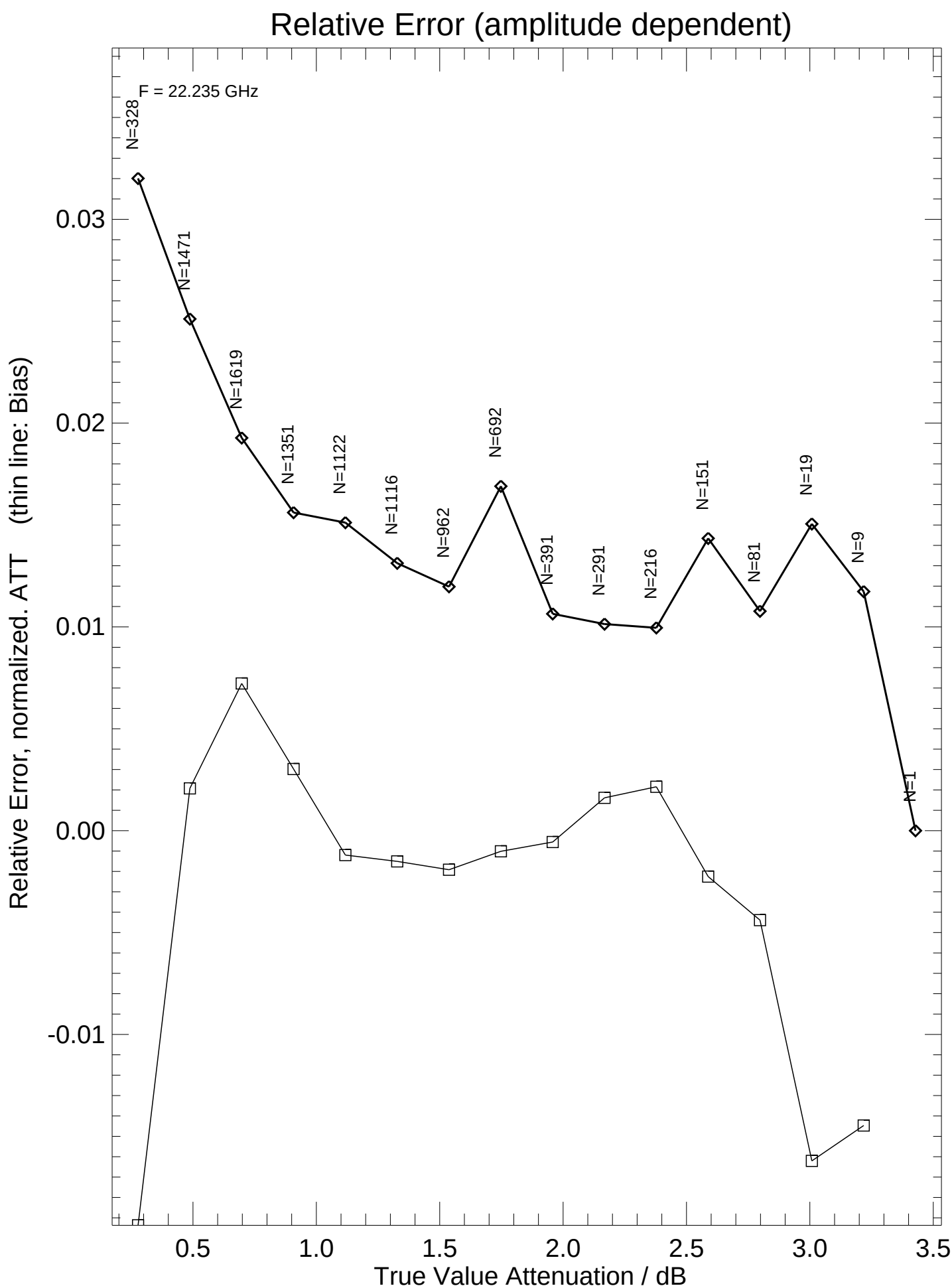

Absolute Error (amplitude dependent)
F = 22.234 GHz
Mean StD = 0.02 Max StD = 0.05
Mean bias = 0.01 Max bias = 0.05
N=328
N=1471
N=1619
N=1351
N=1122
N=1116
N=962
N=692
N=391
N=291
N=216
N=151
N=81
N=19
N=9
N=1
0.04
0.02
0.00
-0.02
-0.04
0.5
1.0
1.5
2.0
2.5
3.0
3.5
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

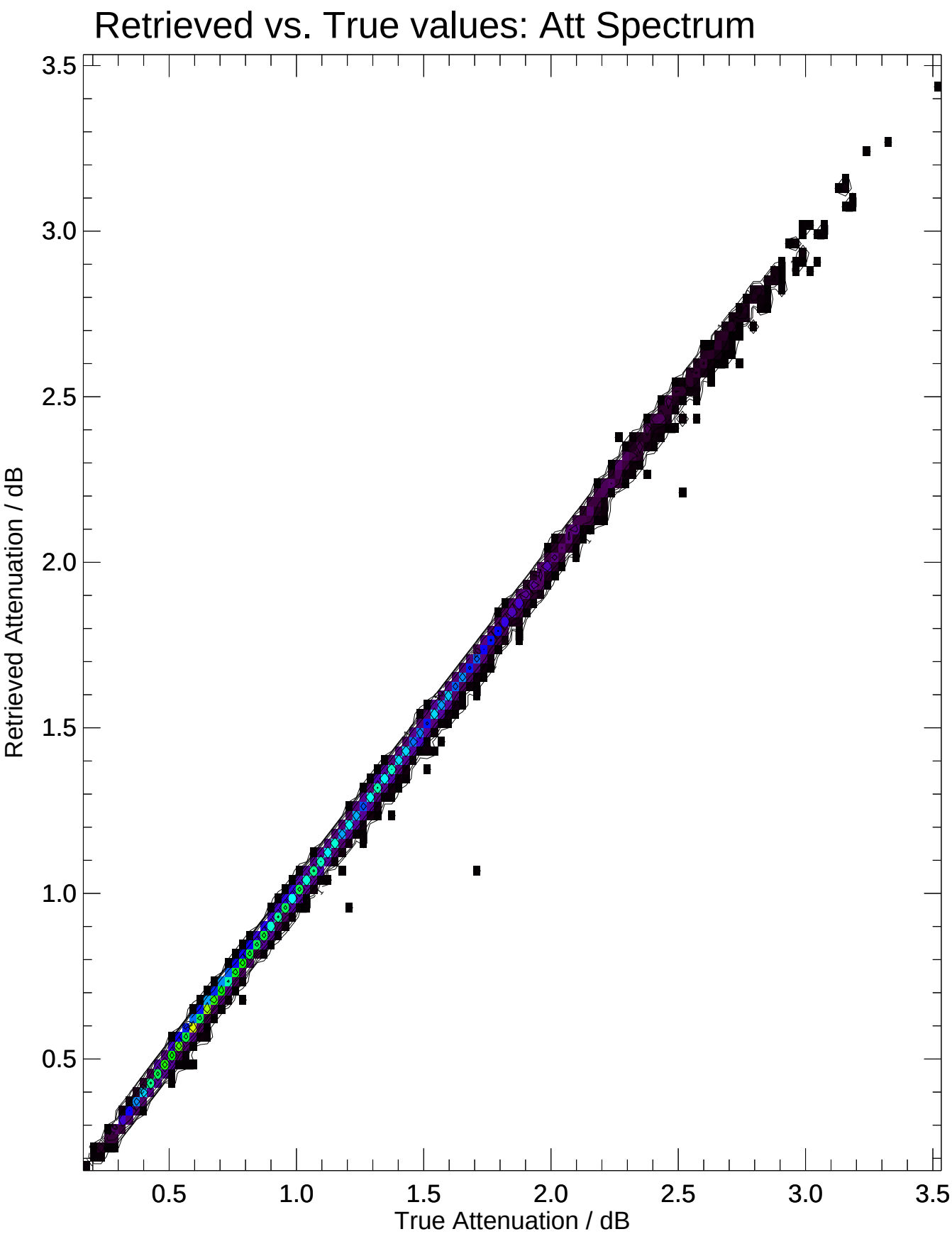

Relative Error (amplitude dependent)
F = 22.234 GHz
N=328
N=1471
N=1619
N=1351
N=1122
N=1116
N=962
N=692
N=391
N=291
N=216
N=151
N=81
N=19
N=9
N=1
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
3.0
3.5
True Value Attenuation / dB

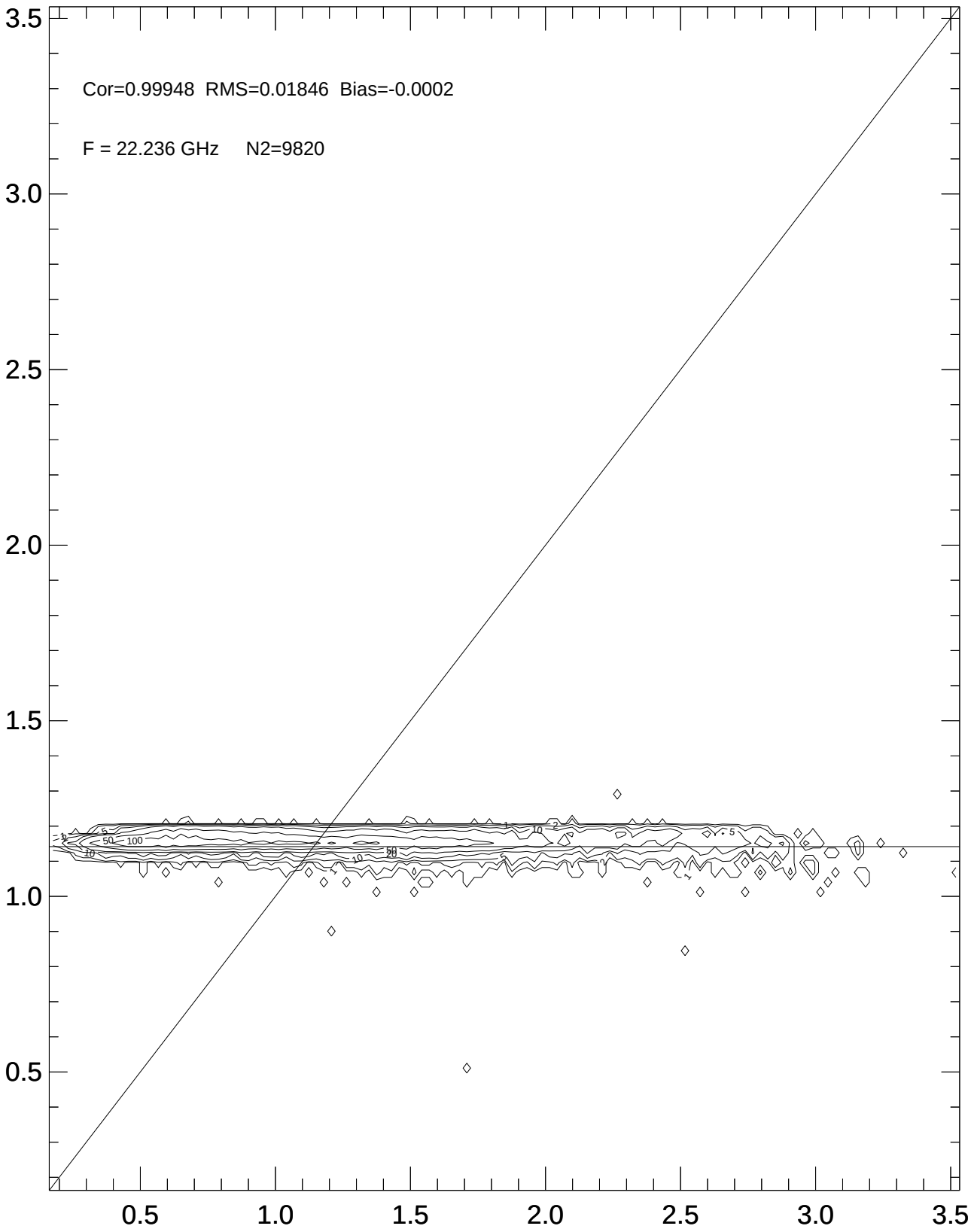

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0
3.5

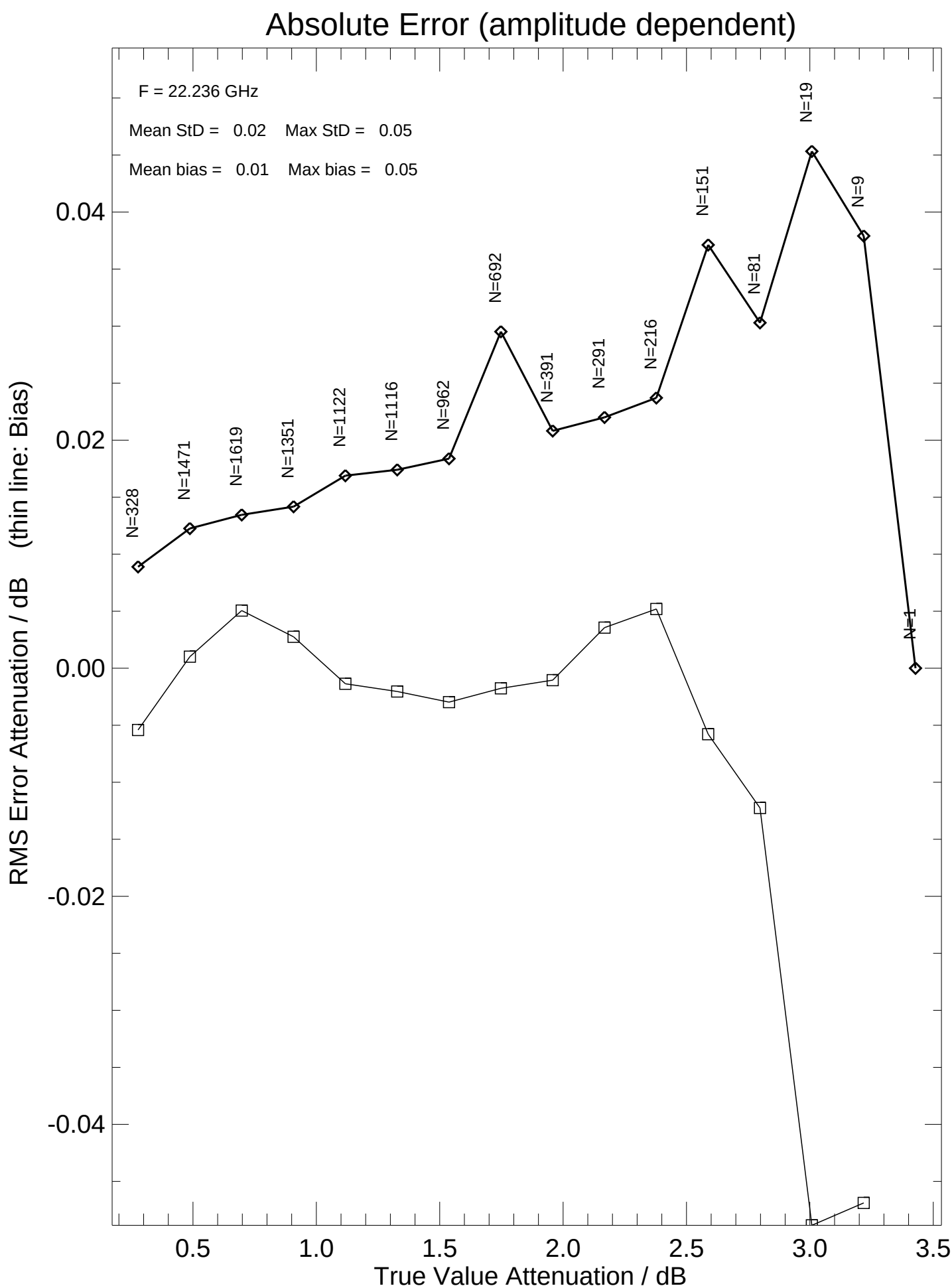

Cor=0.99948 RMS=0.01846 Bias=-0.0002
F = 22.235 GHz N2=9820
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0
3.5

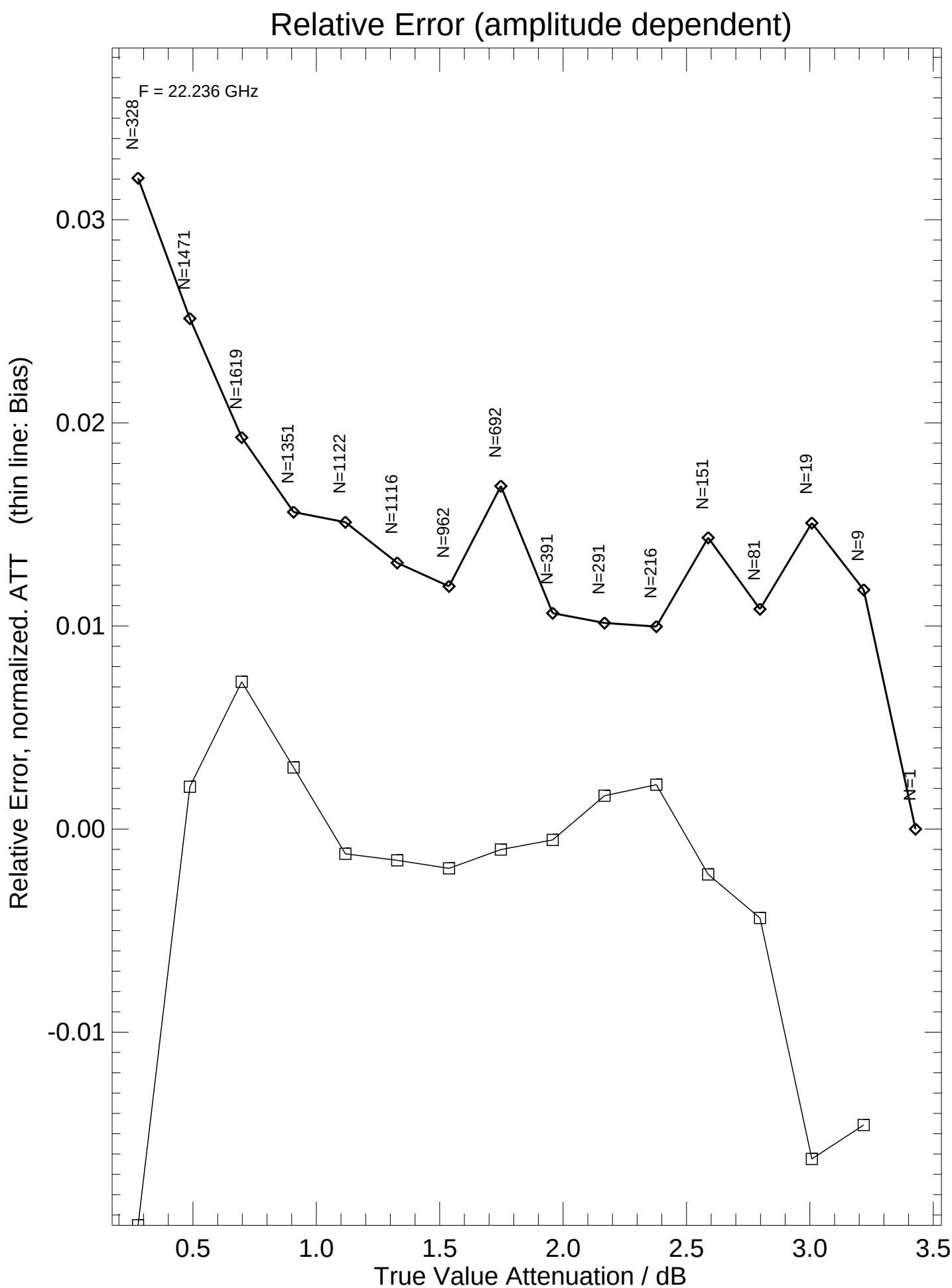

Absolute Error (amplitude dependent)
F = 22.235 GHz
Mean StD = 0.02 Max StD = 0.05
Mean bias = 0.01 Max bias = 0.05
N=328
N=1471
N=1619
N=1351
N=1122
N=1116
N=962
N=692
N=391
N=291
N=216
N=151
N=81
N=19
N=9
N=1
0.04
0.02
0.00
-0.02
-0.04
0.5
1.0
1.5
2.0
2.5
3.0
3.5
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

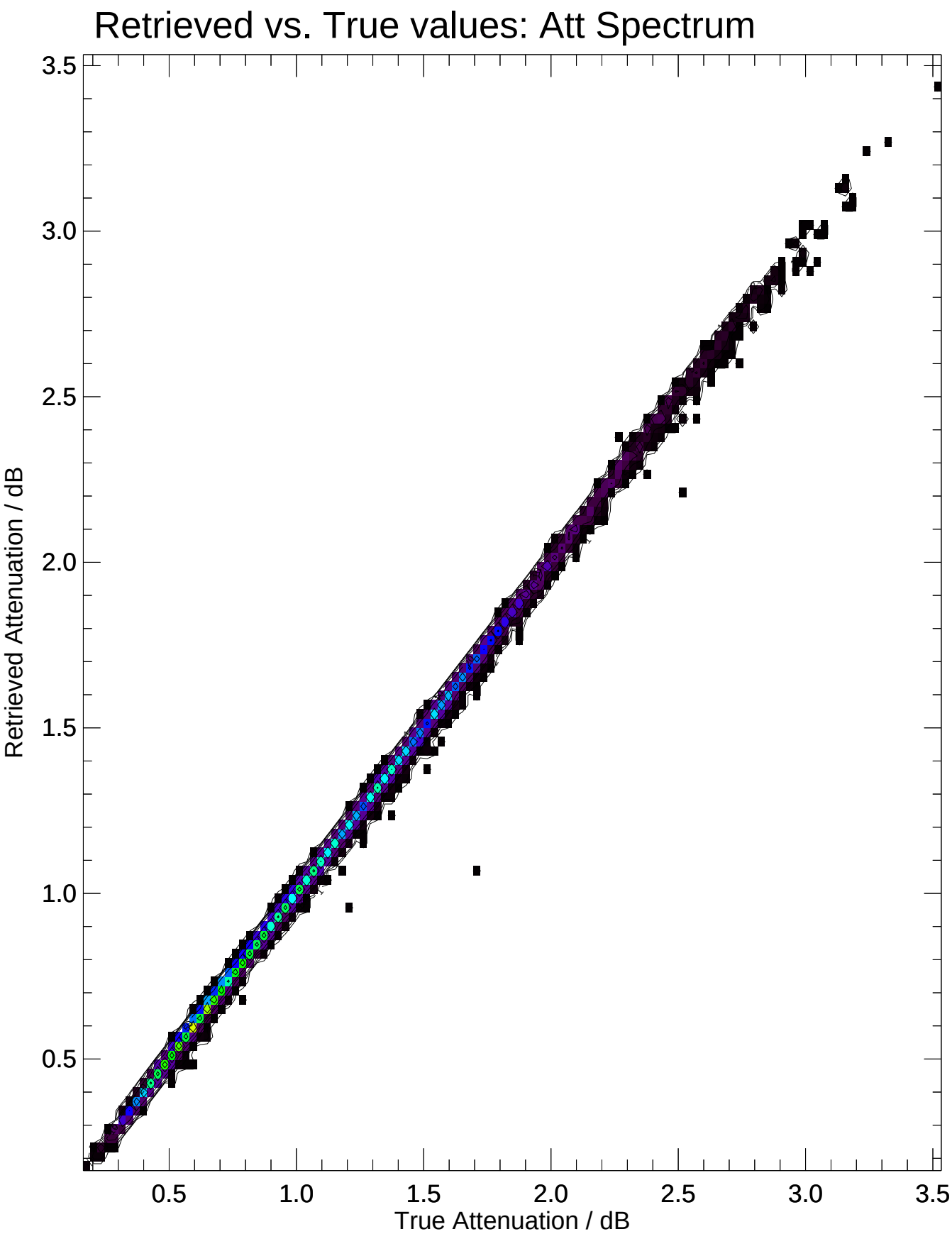

Relative Error (amplitude dependent)
F = 22.235 GHz
N=328
N=1471
N=1619
N=1351
N=1122
N=1116
N=962
N=692
N=391
N=291
N=216
N=151
N=81
N=19
N=9
N=1
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
3.0
3.5
True Value Attenuation / dB

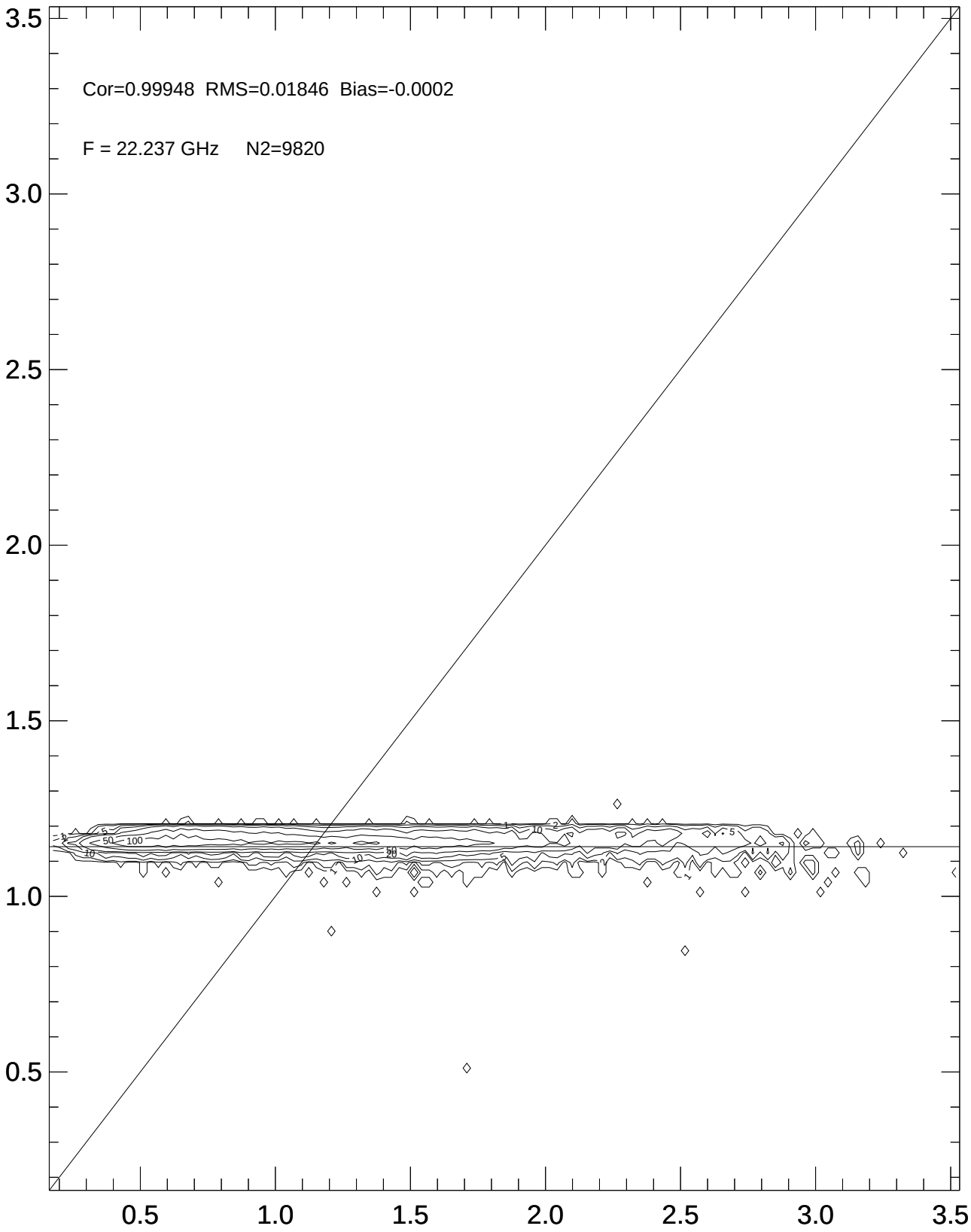

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0
3.5

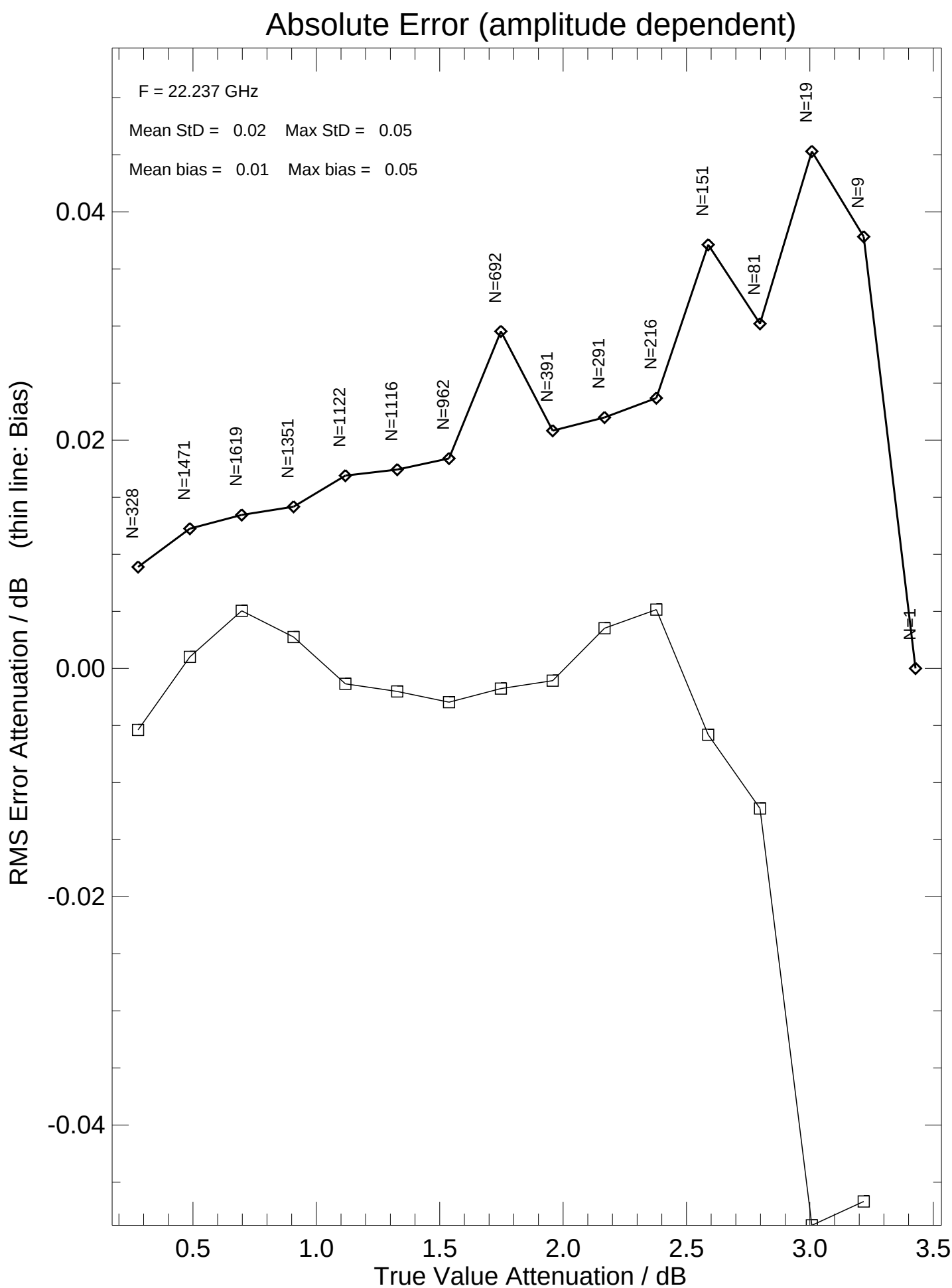

Cor=0.99948 RMS=0.01846 Bias=-0.0002
F = 22.236 GHz N2=9820
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0
3.5

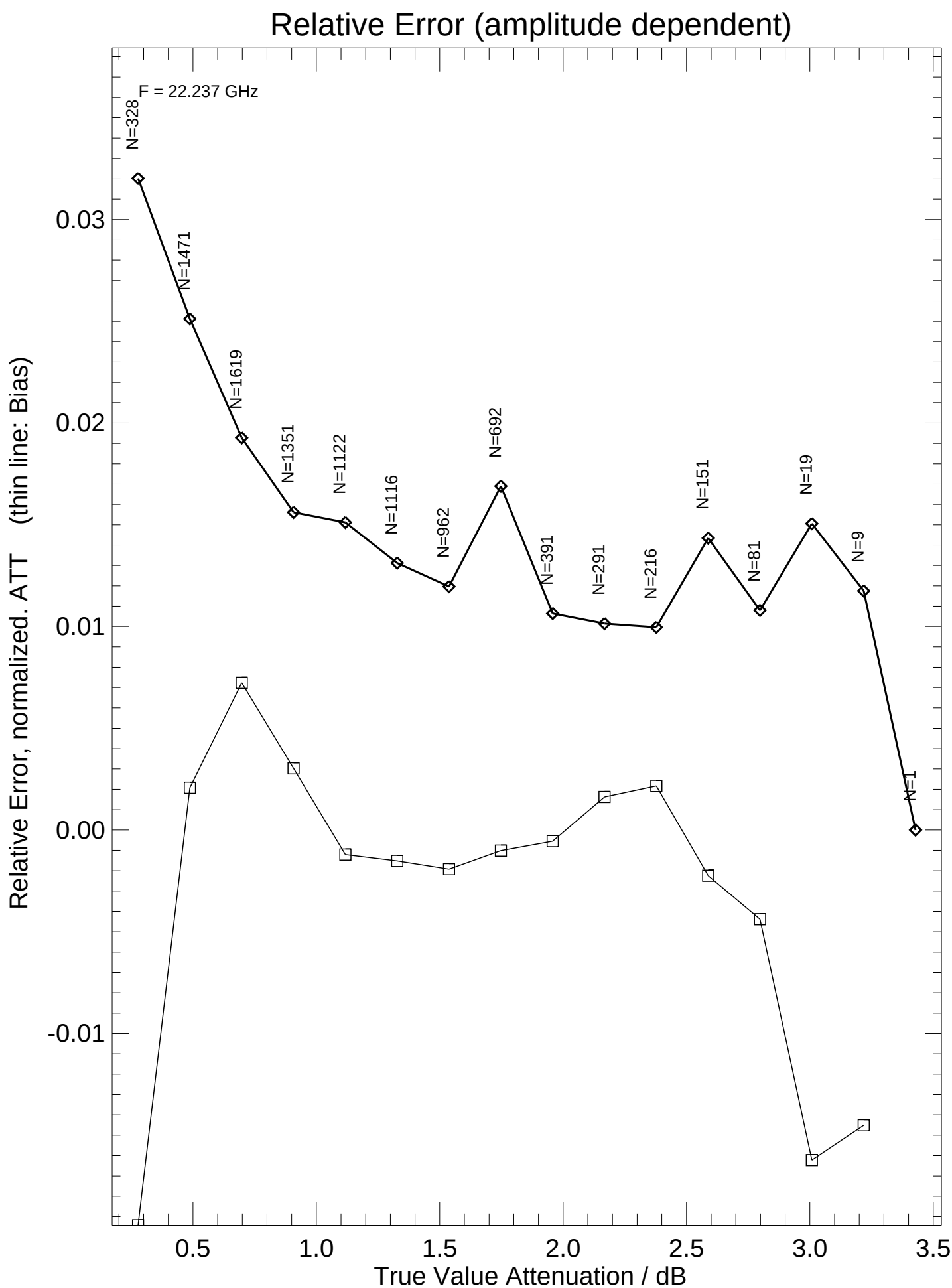

Absolute Error (amplitude dependent)
F = 22.236 GHz
Mean StD = 0.02 Max StD = 0.05
Mean bias = 0.01 Max bias = 0.05
N=328
N=1471
N=1619
N=1351
N=1122
N=1116
N=962
N=692
N=391
N=291
N=216
N=151
N=81
N=19
N=9
N=1
0.04
0.02
0.00
-0.02
-0.04
0.5
1.0
1.5
2.0
2.5
3.0
3.5
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

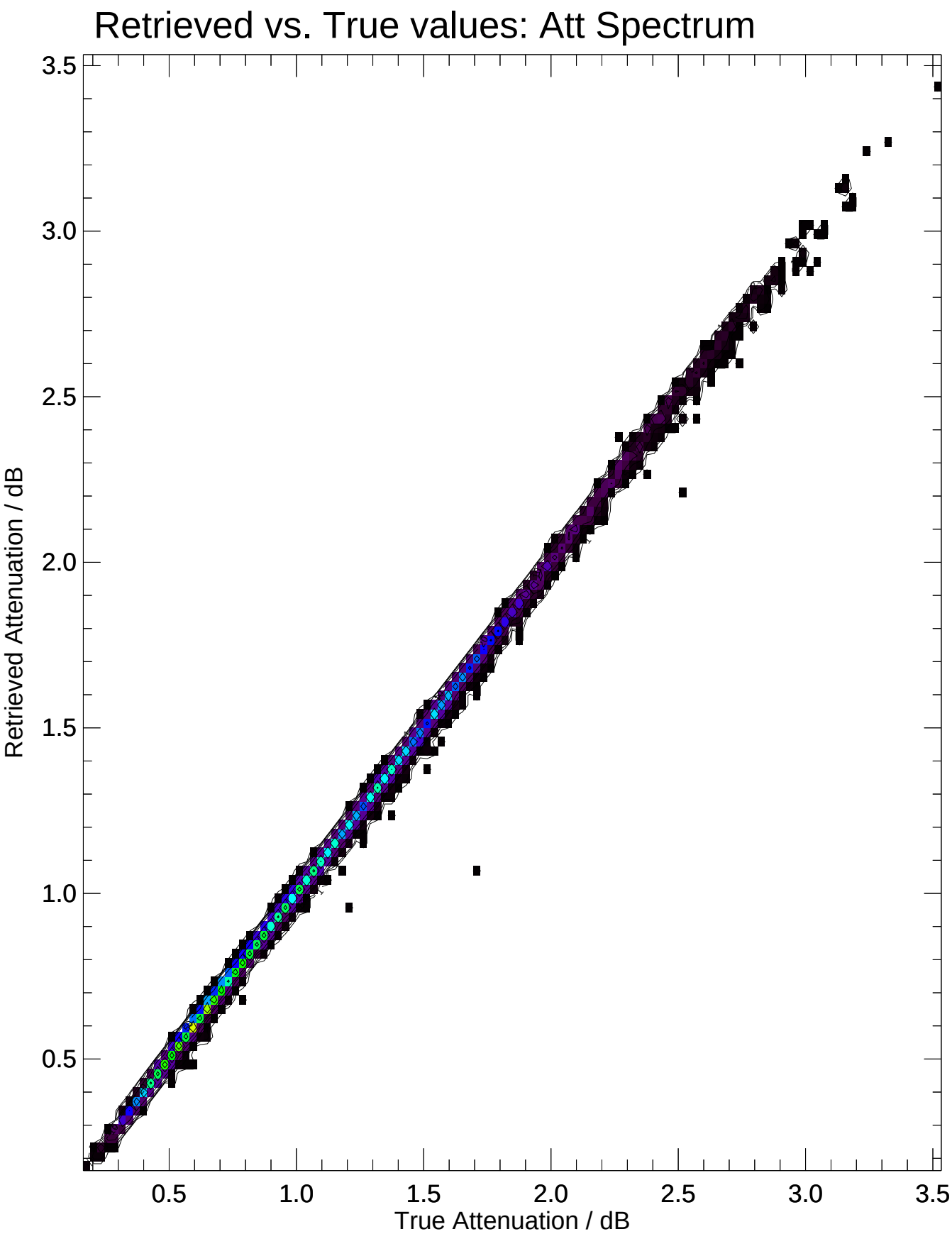

Relative Error (amplitude dependent)
F = 22.236 GHz
N=328
N=1471
N=1619
N=1351
N=1122
N=1116
N=962
N=692
N=391
N=291
N=216
N=151
N=81
N=19
N=9
N=1
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
3.0
3.5
True Value Attenuation / dB

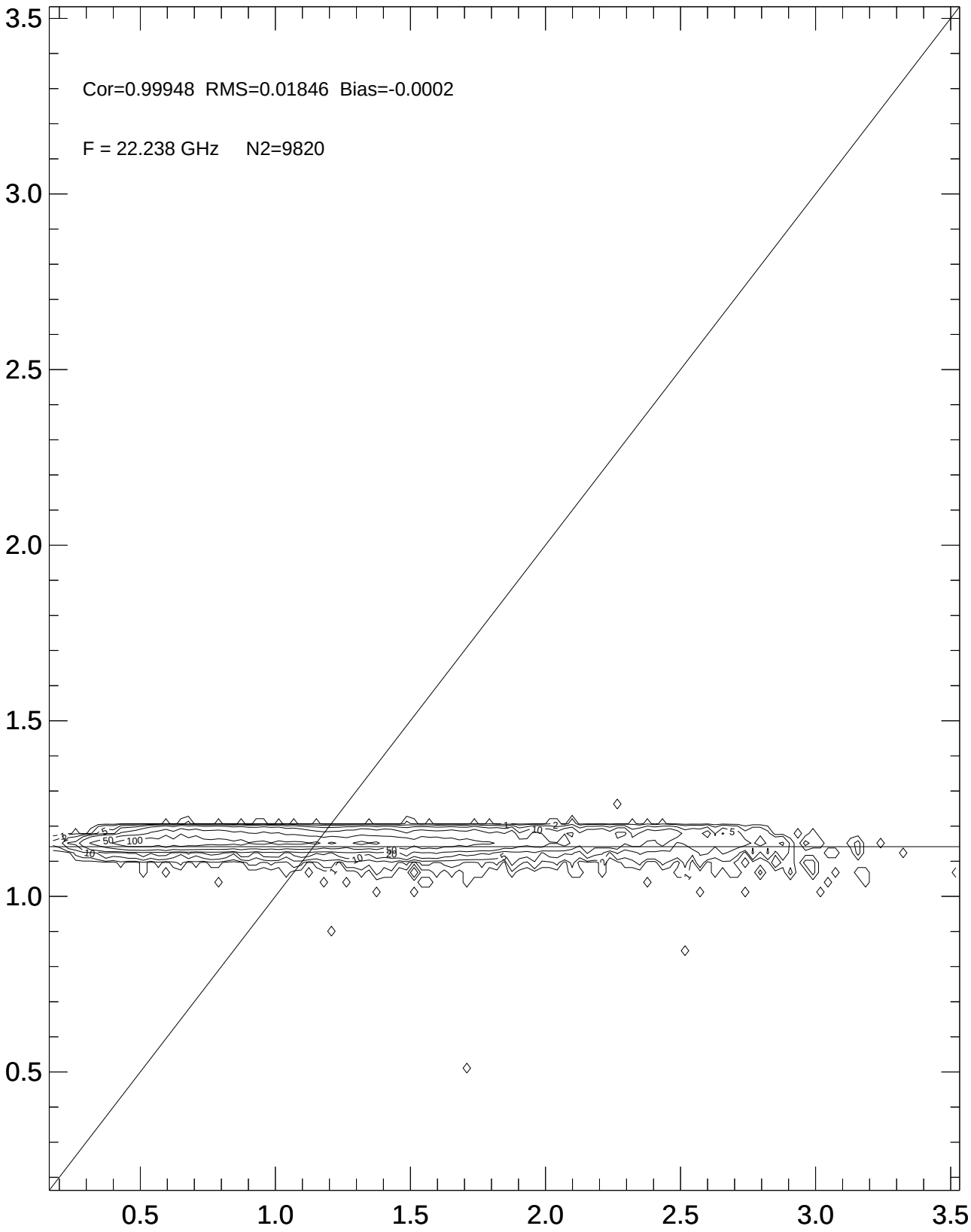

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0
3.5

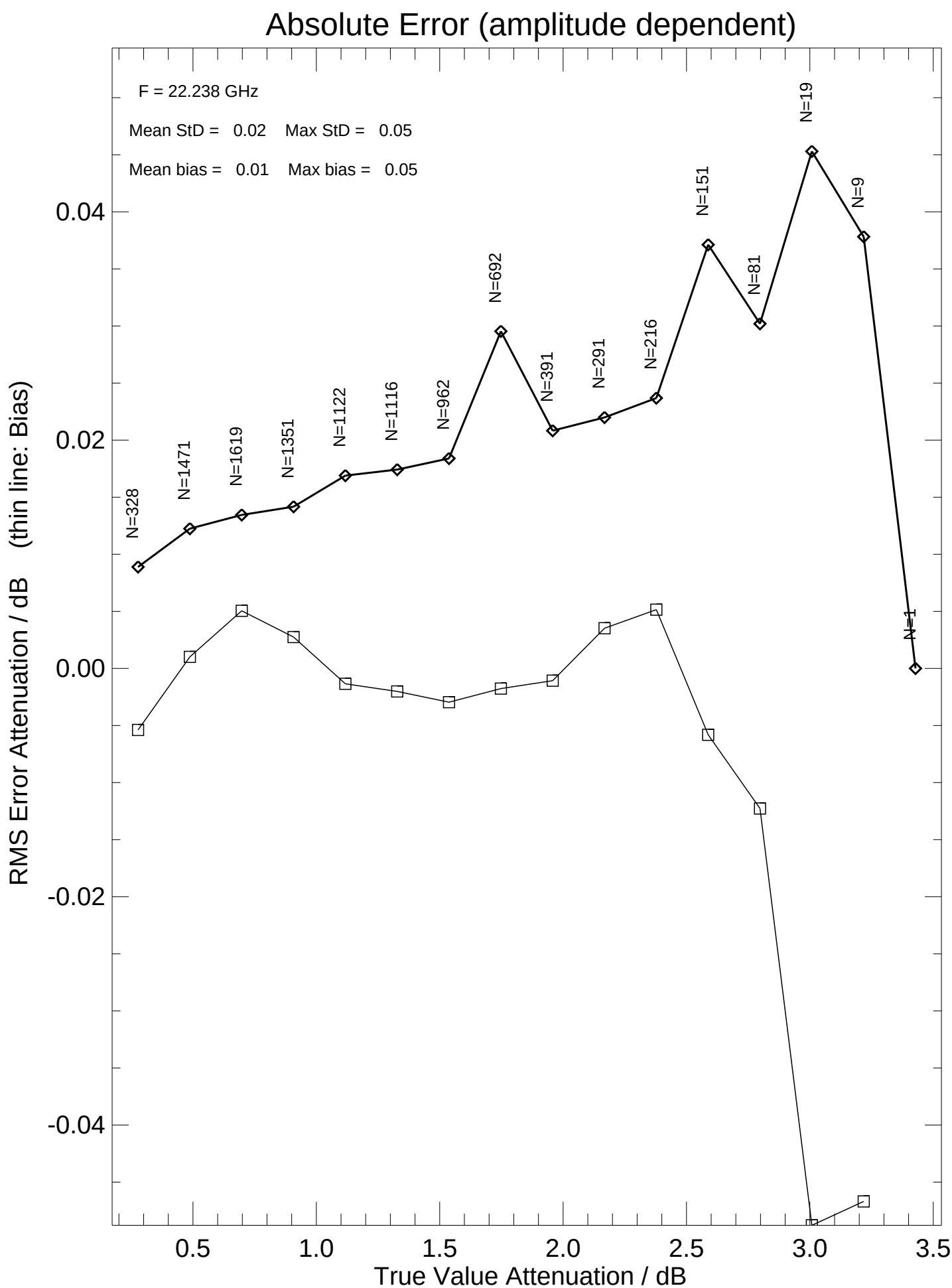

Cor=0.99948 RMS=0.01846 Bias=-0.0002
F = 22.237 GHz N2=9820
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0
3.5

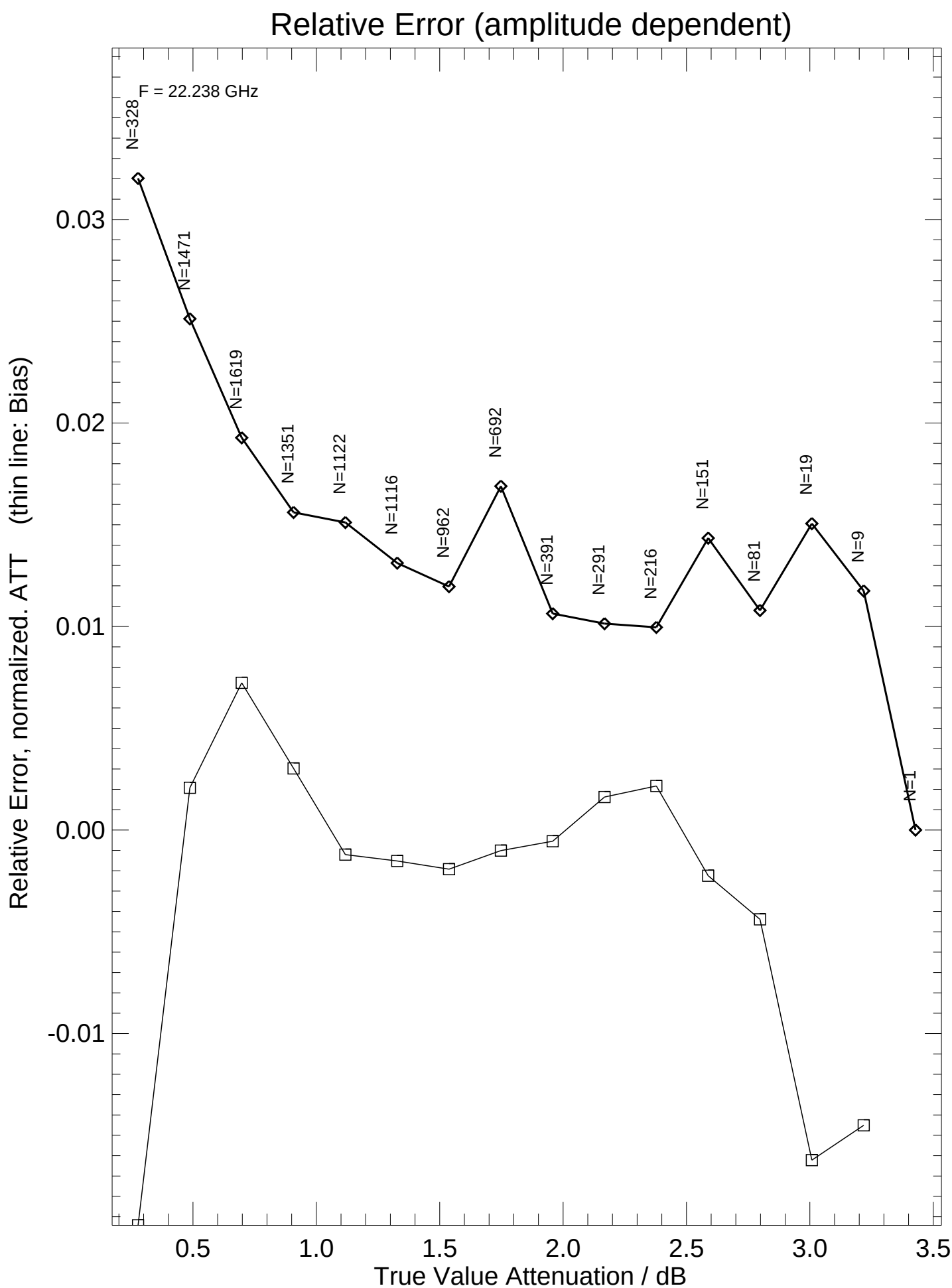

Absolute Error (amplitude dependent)
F = 22.237 GHz
Mean StD = 0.02 Max StD = 0.05
Mean bias = 0.01 Max bias = 0.05
N=328
N=1471
N=1619
N=1351
N=1122
N=1116
N=962
N=692
N=391
N=291
N=216
N=151
N=81
N=19
N=9
N=1
0.04
0.02
0.00
-0.02
-0.04
0.5
1.0
1.5
2.0
2.5
3.0
3.5
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

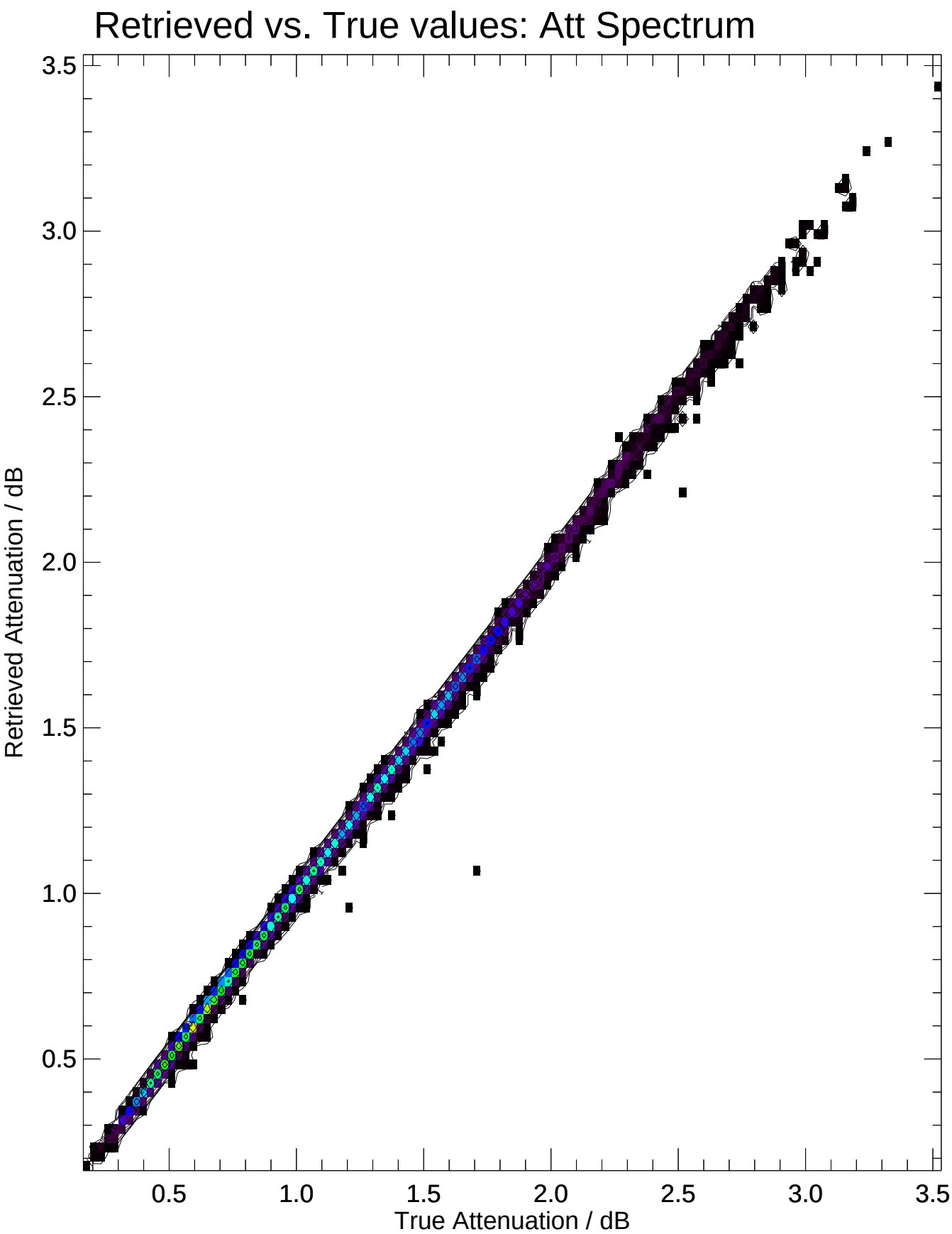

Relative Error (amplitude dependent)
F = 22.237 GHz
N=328
N=1471
N=1619
N=1351
N=1122
N=1116
N=962
N=692
N=391
N=291
N=216
N=151
N=81
N=19
N=9
N=1
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
3.0
3.5
True Value Attenuation / dB

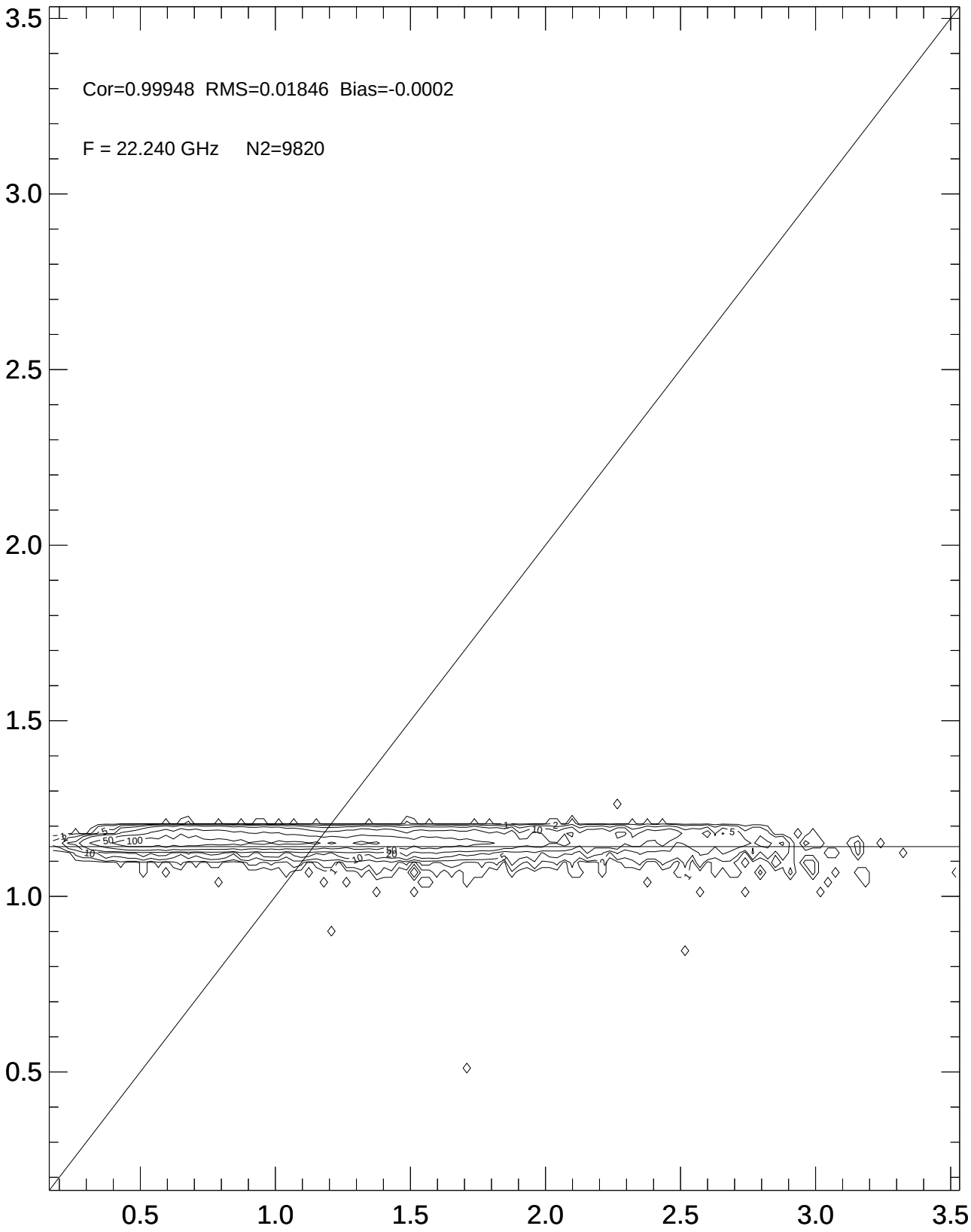

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0
3.5

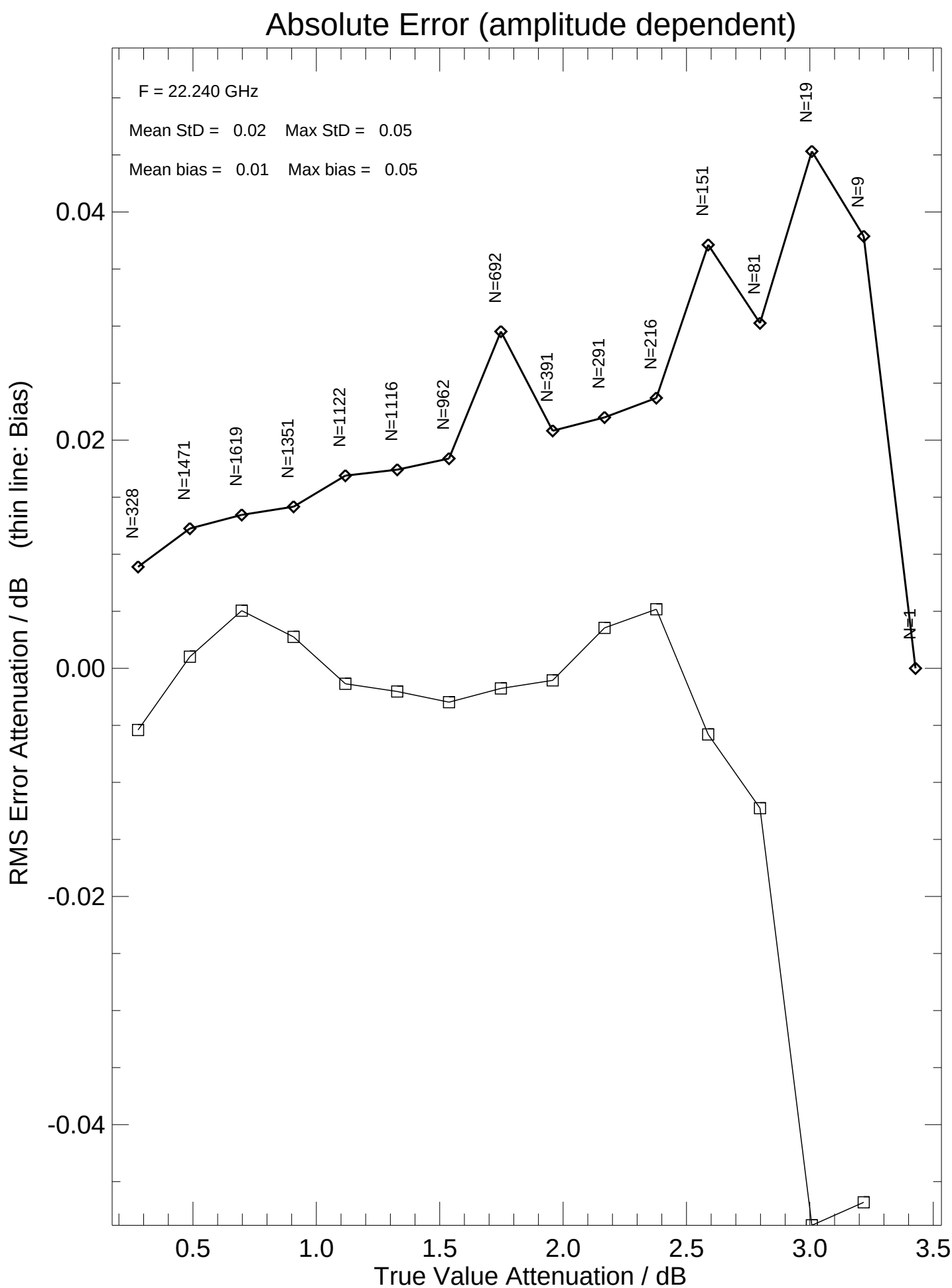

Cor=0.99948 RMS=0.01846 Bias=-0.0002
F = 22.238 GHz N2=9820
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0
3.5

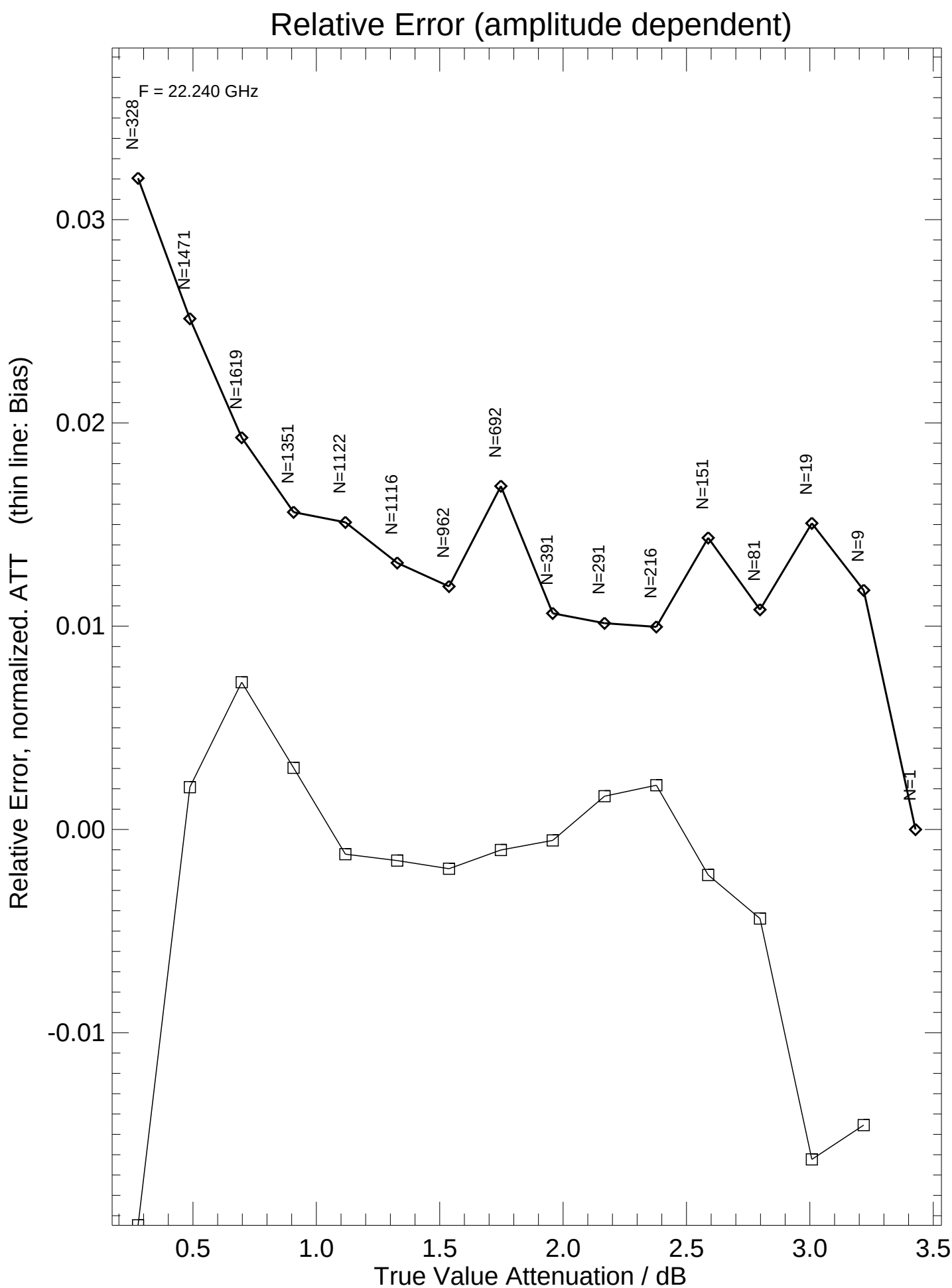

Absolute Error (amplitude dependent)
F = 22.238 GHz
Mean StD = 0.02 Max StD = 0.05
Mean bias = 0.01 Max bias = 0.05
N=328
N=1471
N=1619
N=1351
N=1122
N=1116
N=962
N=692
N=391
N=291
N=216
N=151
N=81
N=19
N=9
N=1
0.04
0.02
0.00
-0.02
-0.04
0.5
1.0
1.5
2.0
2.5
3.0
3.5
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

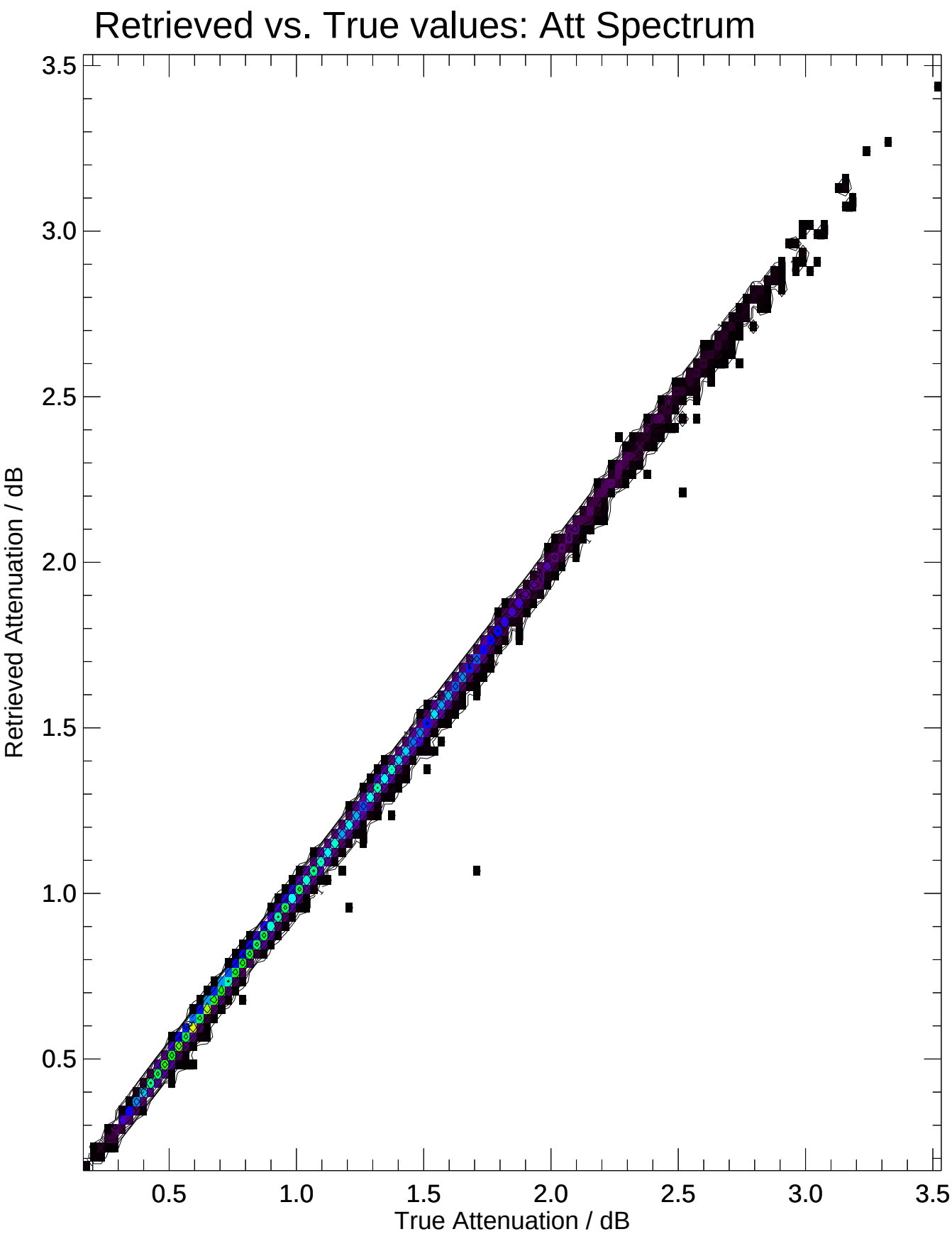

Relative Error (amplitude dependent)
F = 22.238 GHz
N=328
N=1471
N=1619
N=1351
N=1122
N=1116
N=962
N=692
N=391
N=291
N=216
N=151
N=81
N=19
N=9
N=1
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
3.0
3.5
True Value Attenuation / dB

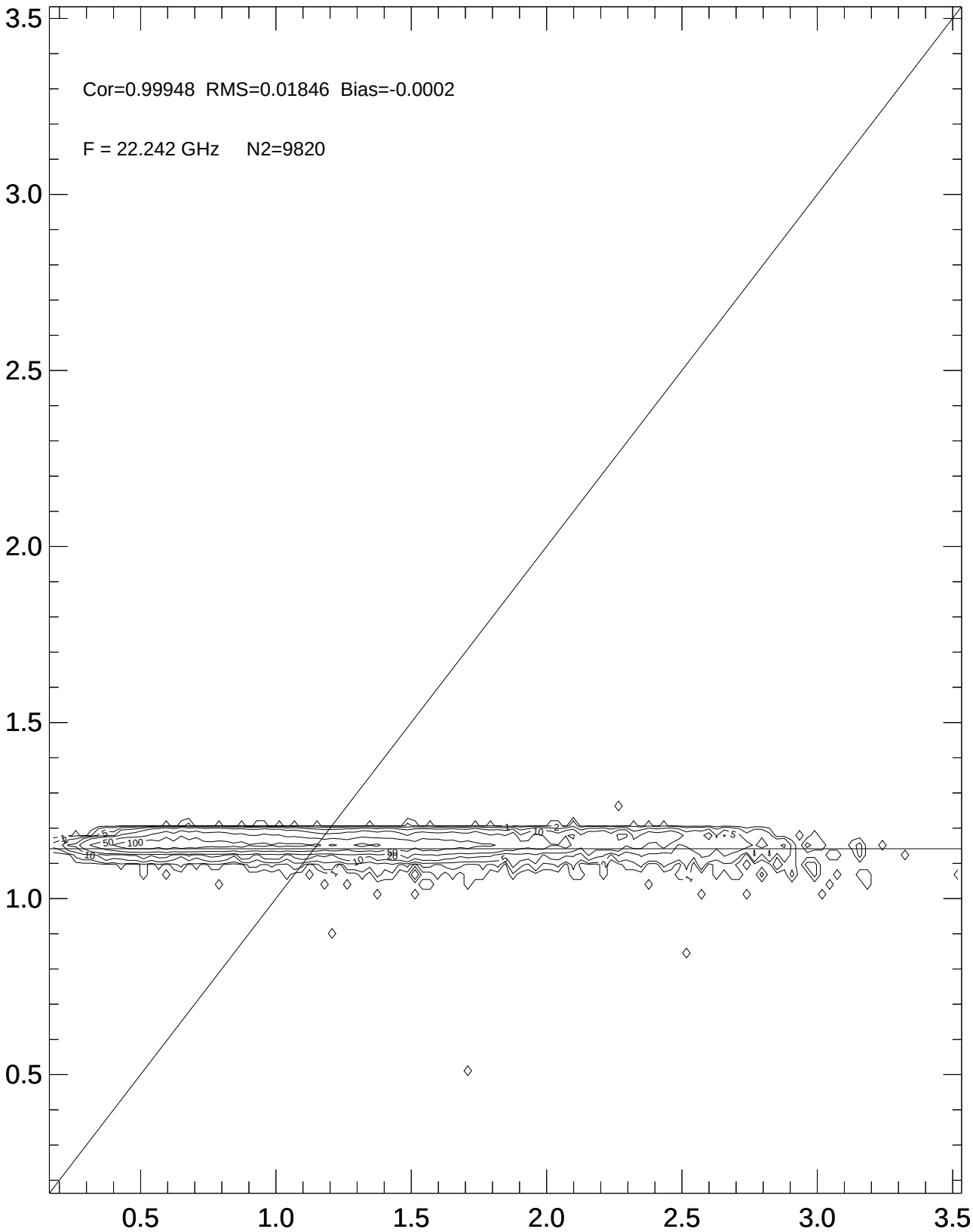

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0
3.5

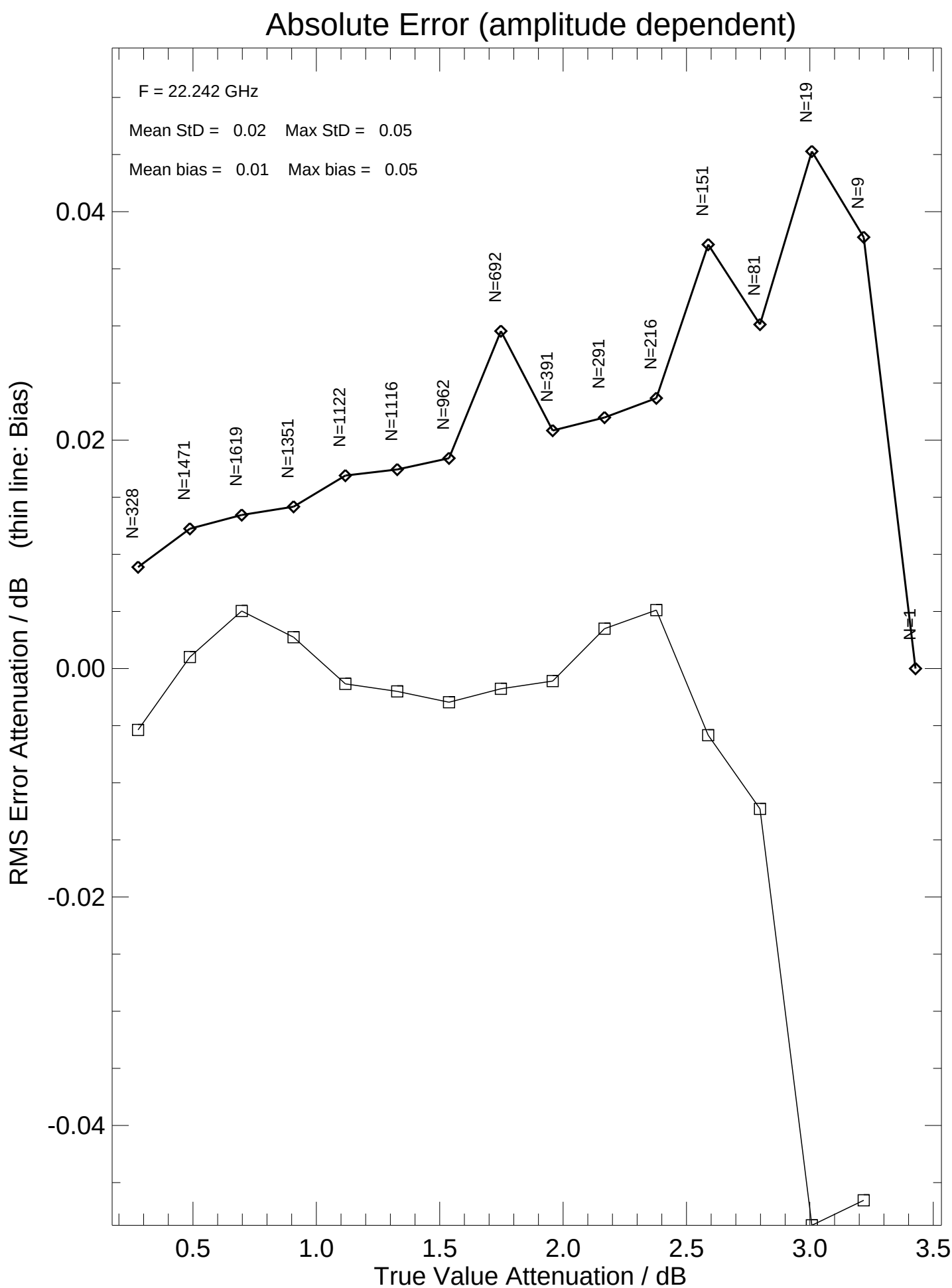

Cor=0.99948 RMS=0.01846 Bias=-0.0002
F = 22.240 GHz N2=9820
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0
3.5

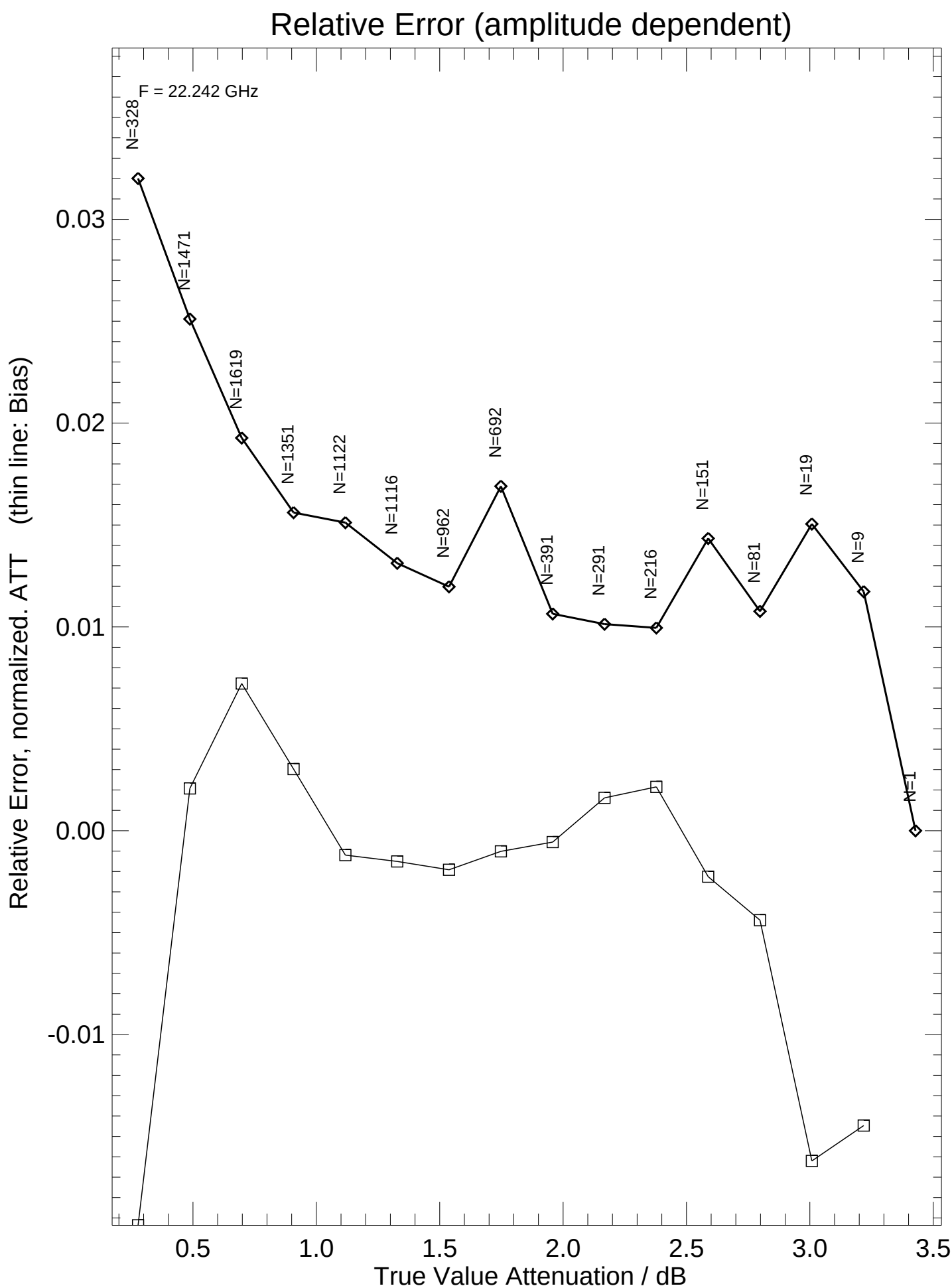

Absolute Error (amplitude dependent)
F = 22.240 GHz
Mean StD = 0.02 Max StD = 0.05
Mean bias = 0.01 Max bias = 0.05
N=328
N=1471
N=1619
N=1351
N=1122
N=1116
N=962
N=692
N=391
N=291
N=216
N=151
N=81
N=19
N=9
N=1
0.04
0.02
0.00
-0.02
-0.04
0.5
1.0
1.5
2.0
2.5
3.0
3.5
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

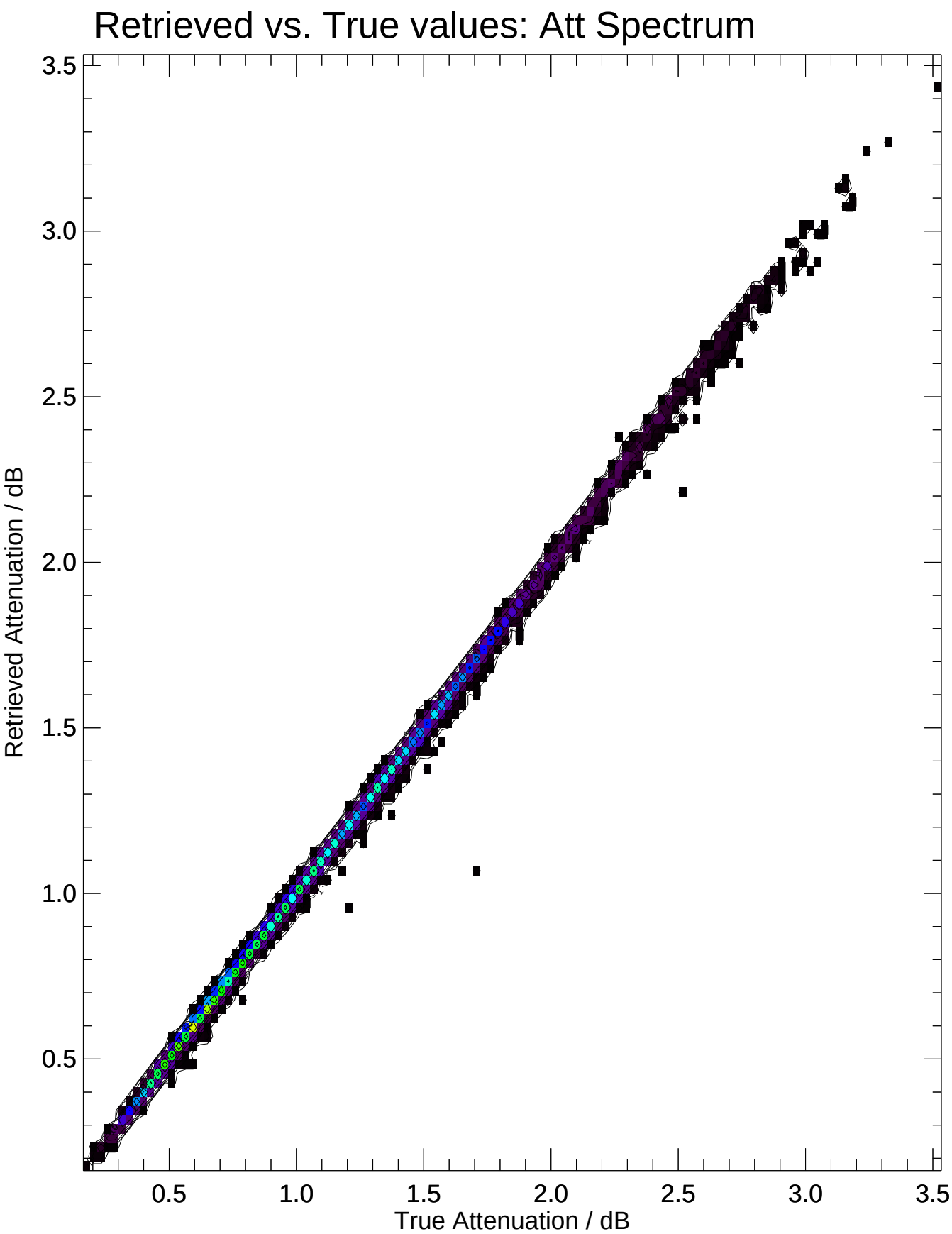

Relative Error (amplitude dependent)
F = 22.240 GHz
N=328
N=1471
N=1619
N=1351
N=1122
N=1116
N=962
N=692
N=391
N=291
N=216
N=151
N=81
N=19
N=9
N=1
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
3.0
3.5
True Value Attenuation / dB

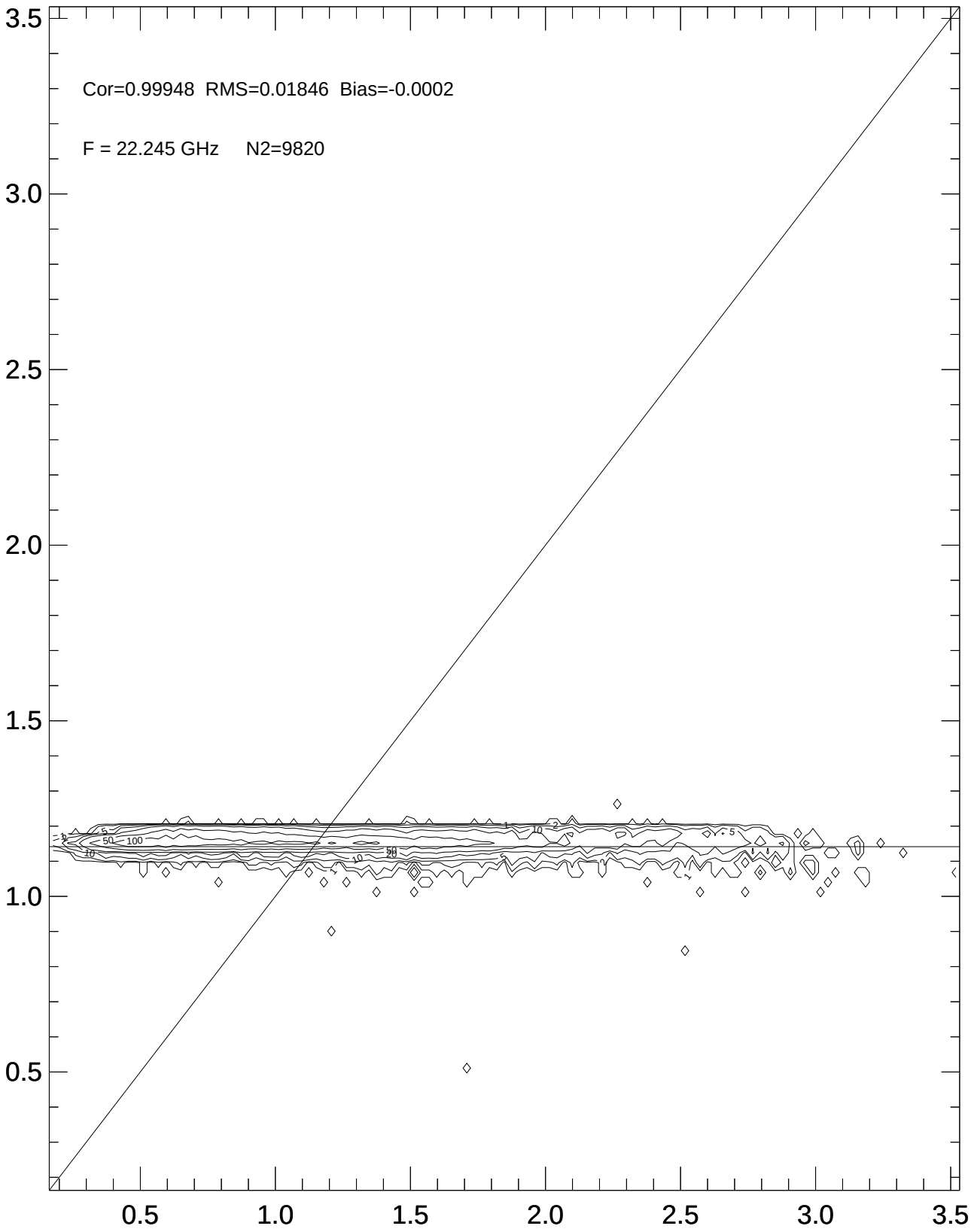

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0
3.5

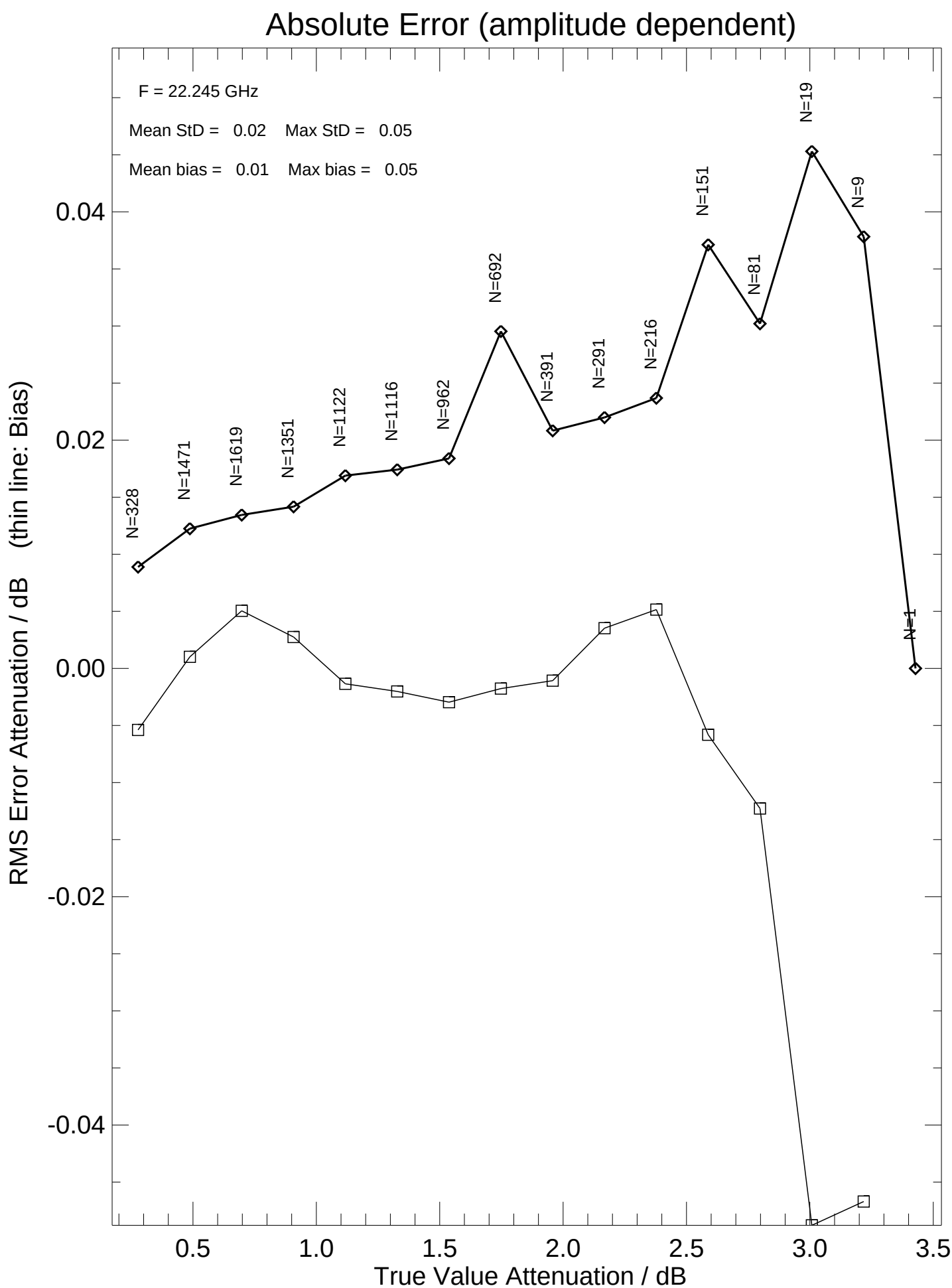

Cor=0.99948 RMS=0.01846 Bias=-0.0002
F = 22.242 GHz N2=9820
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0
3.5

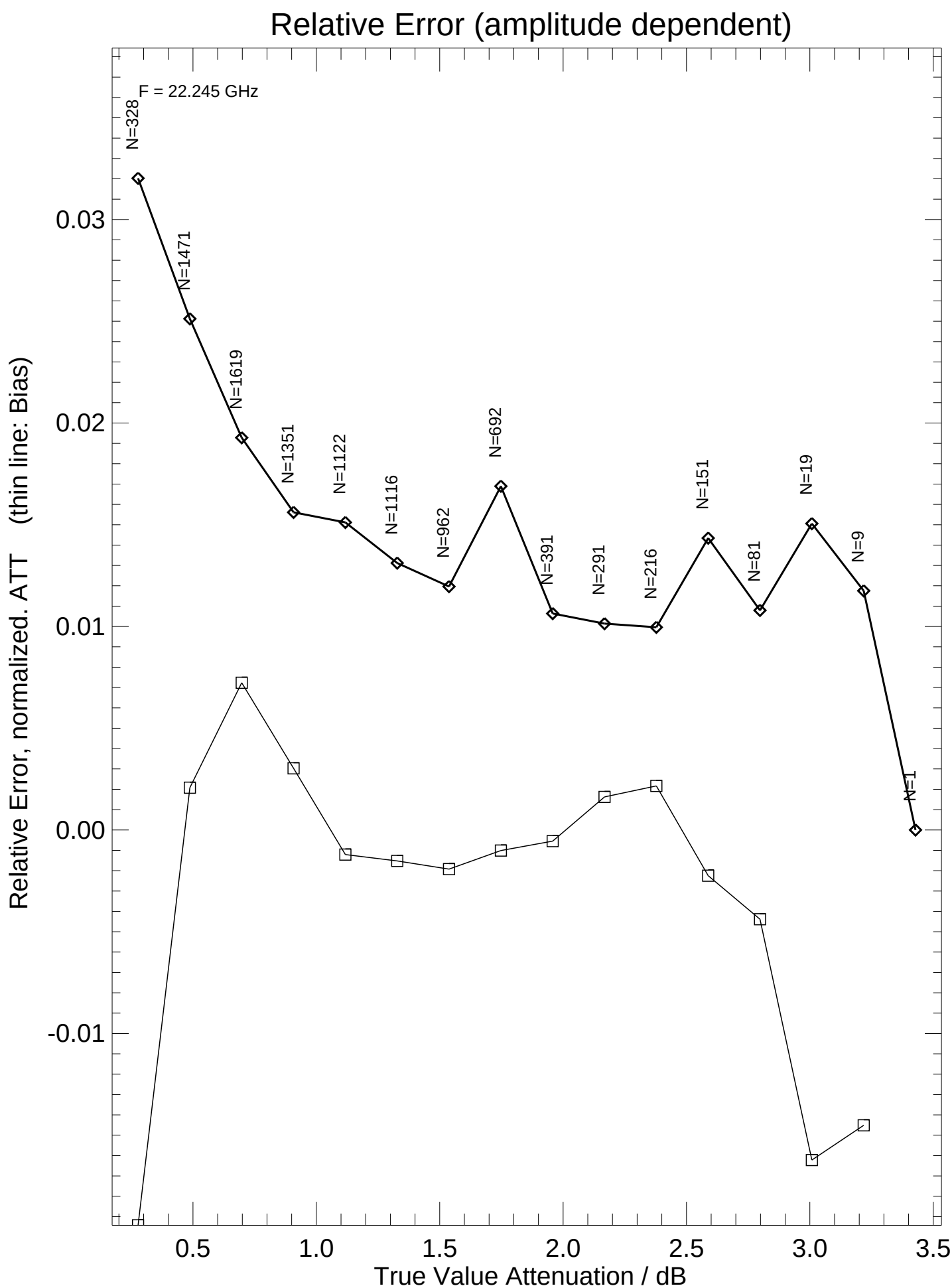

Absolute Error (amplitude dependent)
F = 22.242 GHz
Mean StD = 0.02 Max StD = 0.05
Mean bias = 0.01 Max bias = 0.05
N=328
N=1471
N=1619
N=1351
N=1122
N=1116
N=962
N=692
N=391
N=291
N=216
N=151
N=81
N=19
N=9
N=1
0.04
0.02
0.00
-0.02
-0.04
0.5
1.0
1.5
2.0
2.5
3.0
3.5
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

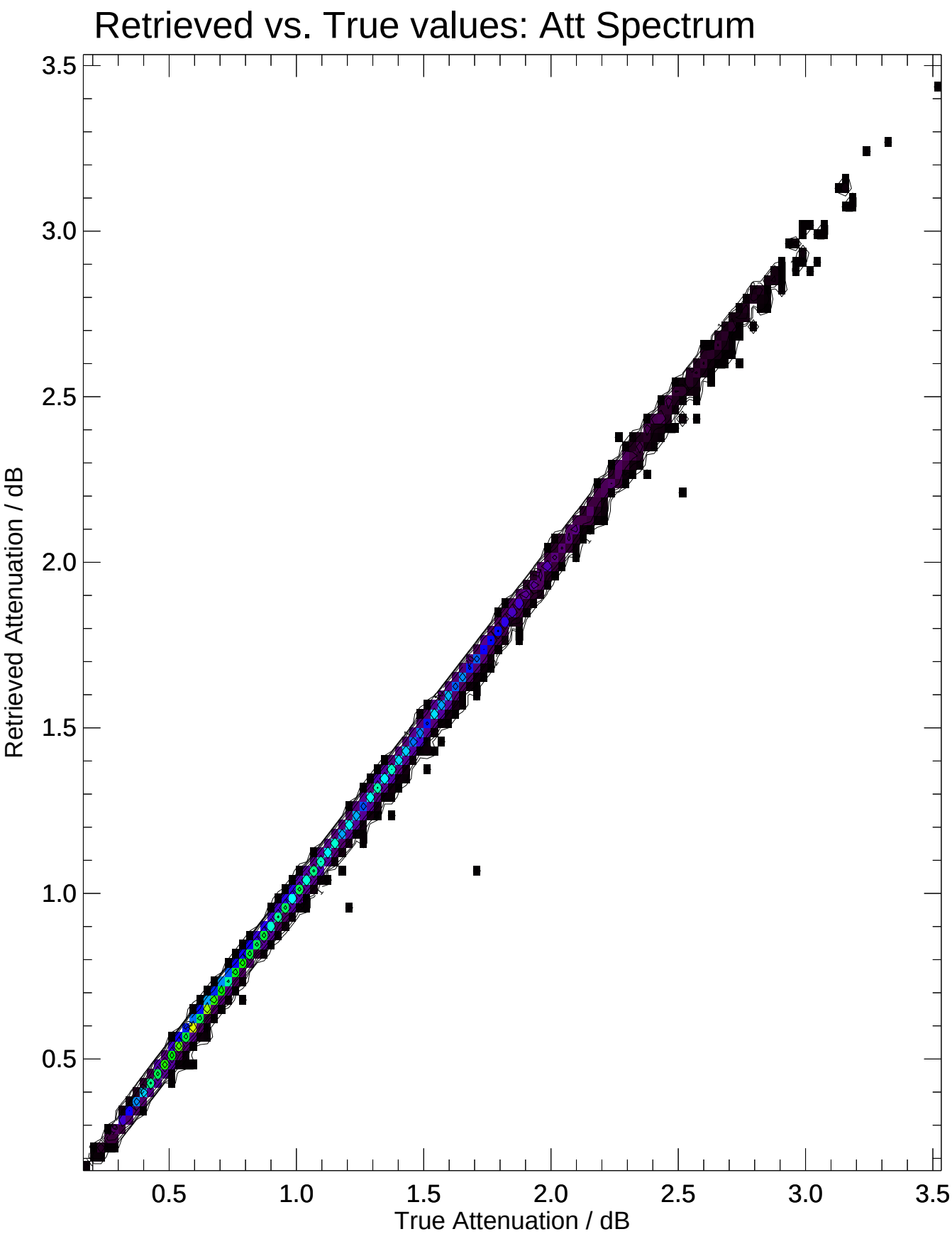

Relative Error (amplitude dependent)
F = 22.242 GHz
N=328
N=1471
N=1619
N=1351
N=1122
N=1116
N=962
N=692
N=391
N=291
N=216
N=151
N=81
N=19
N=9
N=1
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
3.0
3.5
True Value Attenuation / dB

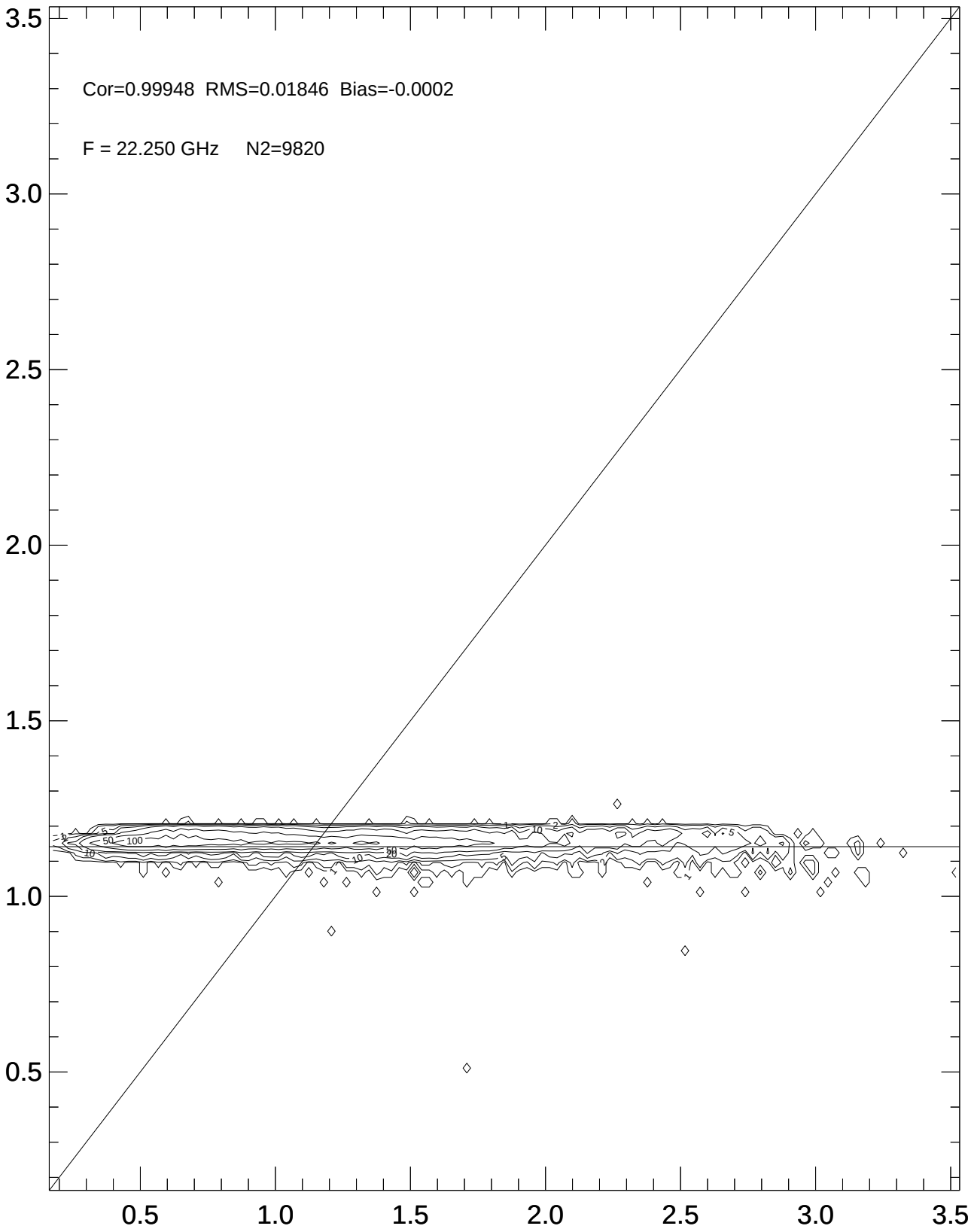

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0
3.5

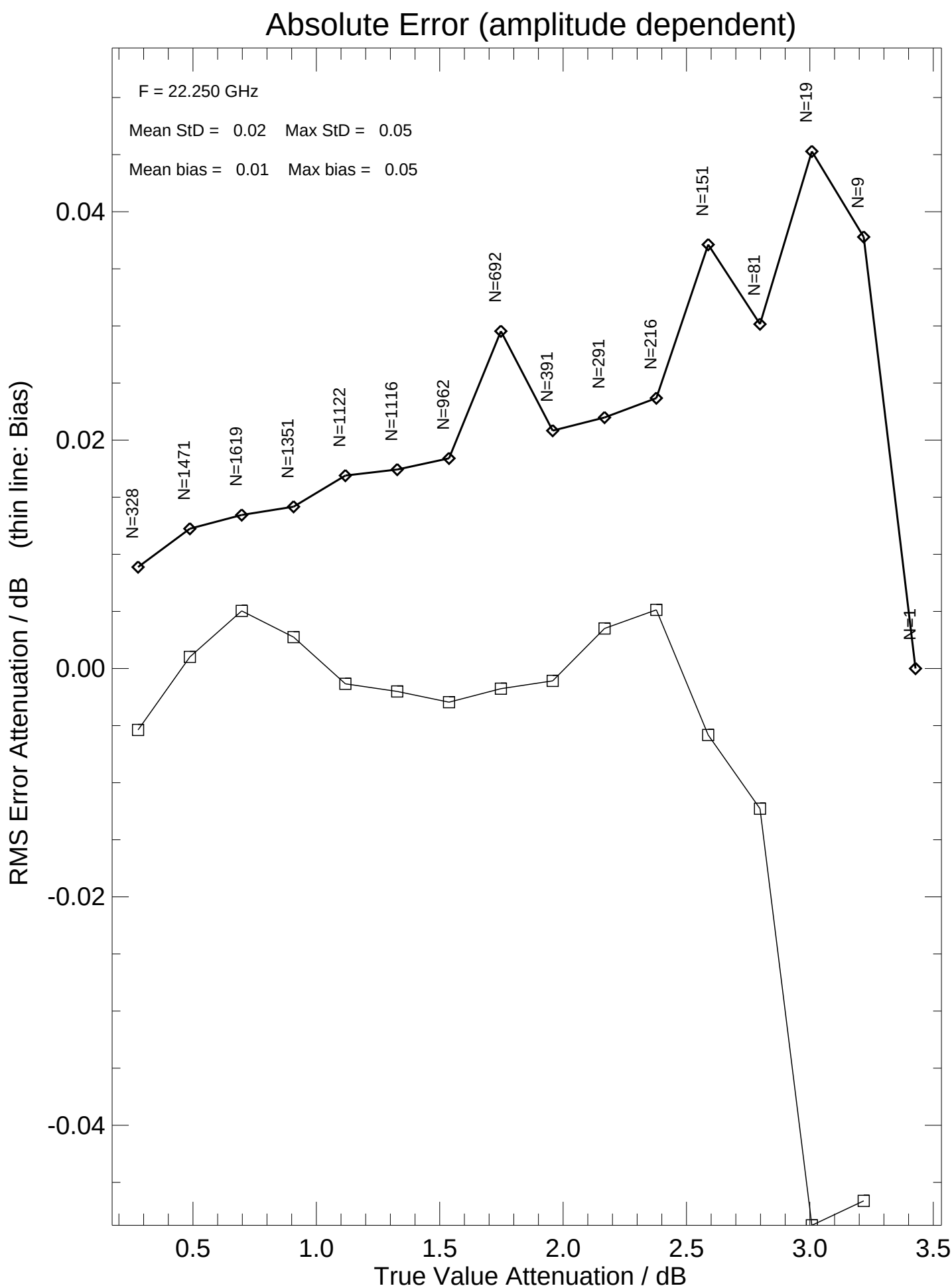

Cor=0.99948 RMS=0.01846 Bias=-0.0002
F = 22.245 GHz N2=9820
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0
3.5

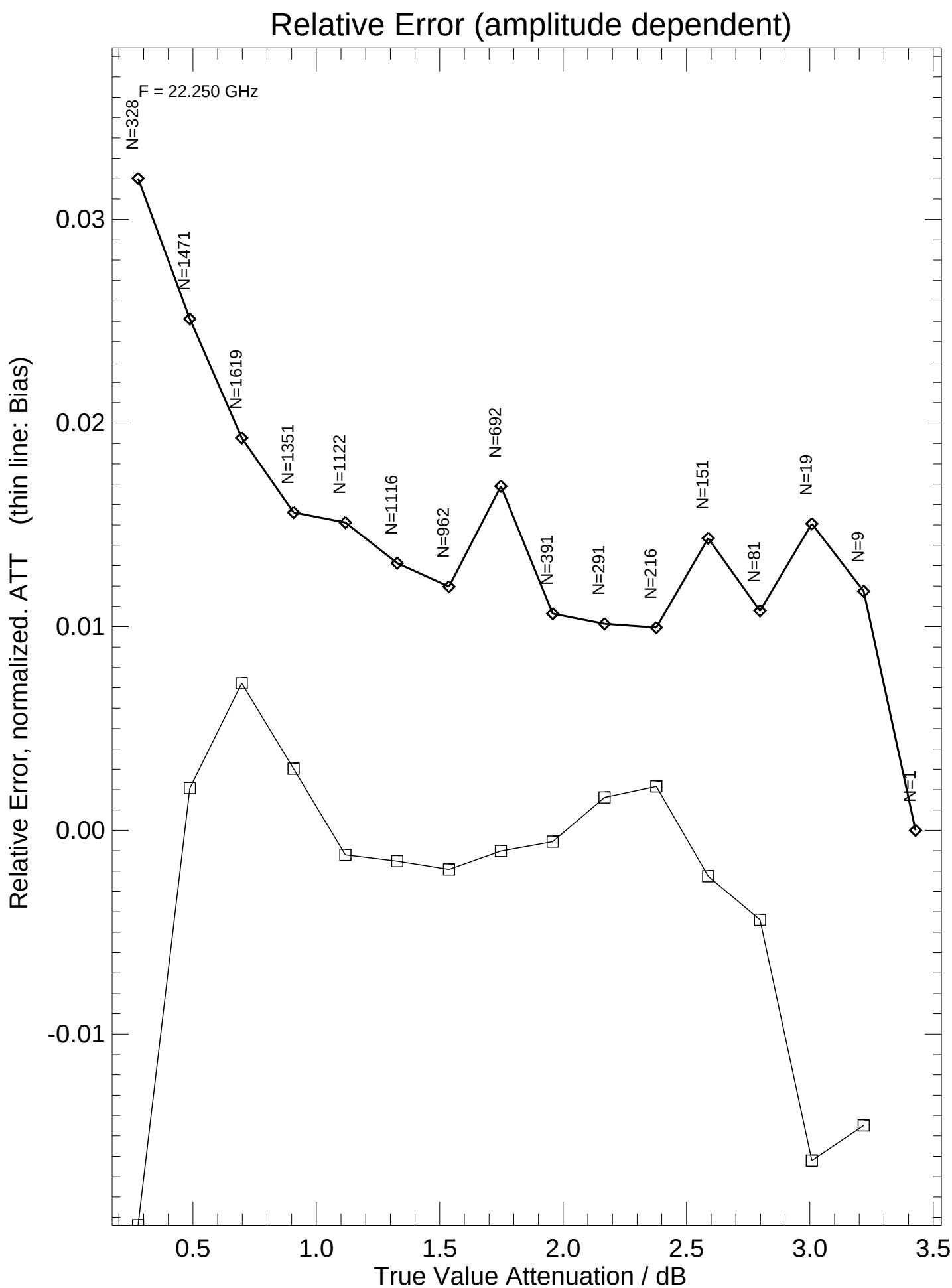

Absolute Error (amplitude dependent)
F = 22.245 GHz
Mean StD = 0.02 Max StD = 0.05
Mean bias = 0.01 Max bias = 0.05
N=328
N=1471
N=1619
N=1351
N=1122
N=1116
N=962
N=692
N=391
N=291
N=216
N=151
N=81
N=19
N=9
N=1
0.04
0.02
0.00
-0.02
-0.04
0.5
1.0
1.5
2.0
2.5
3.0
3.5
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

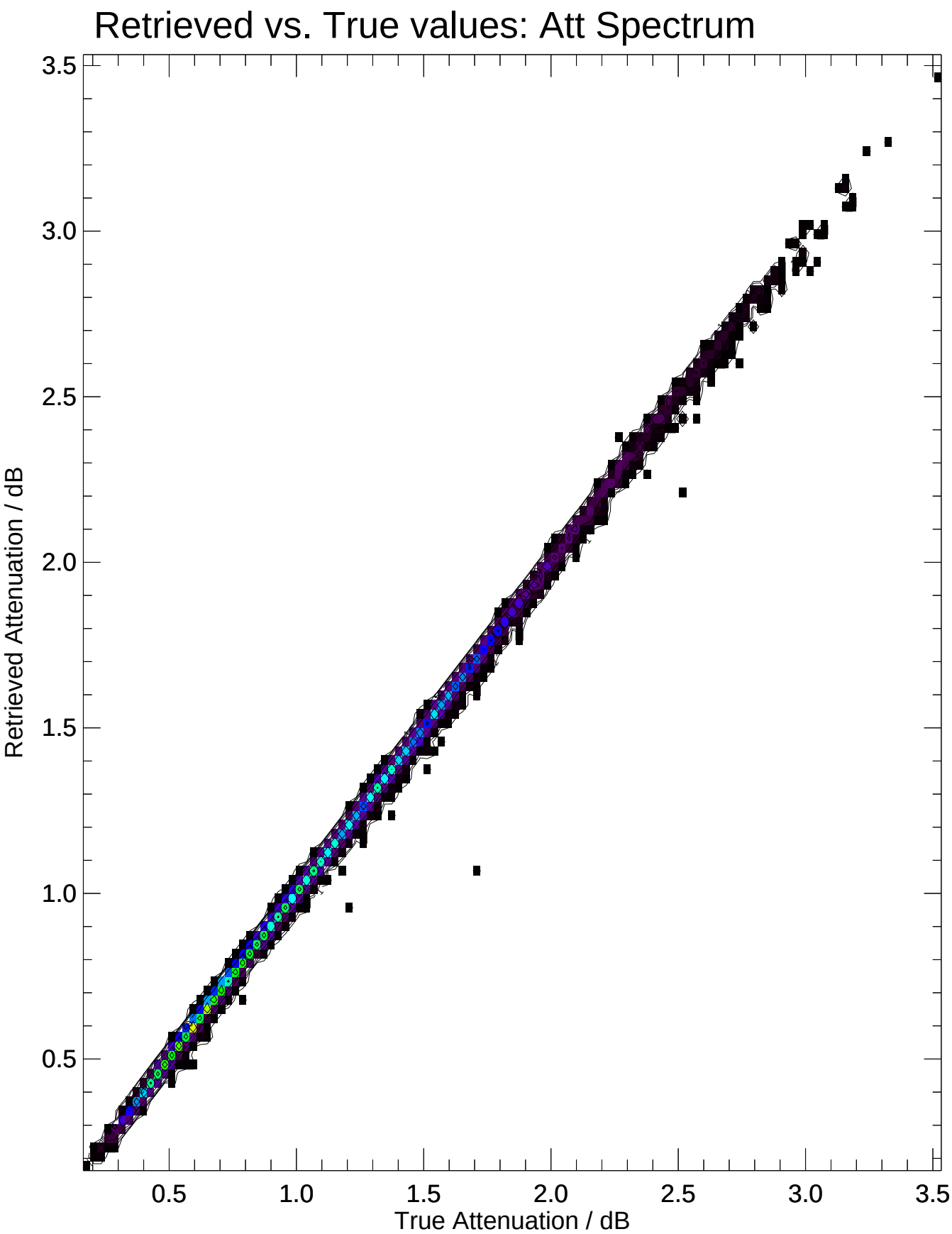

Relative Error (amplitude dependent)
F = 22.245 GHz
N=328
N=1471
N=1619
N=1351
N=1122
N=1116
N=962
N=692
N=391
N=291
N=216
N=151
N=81
N=19
N=9
N=1
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
3.0
3.5
True Value Attenuation / dB

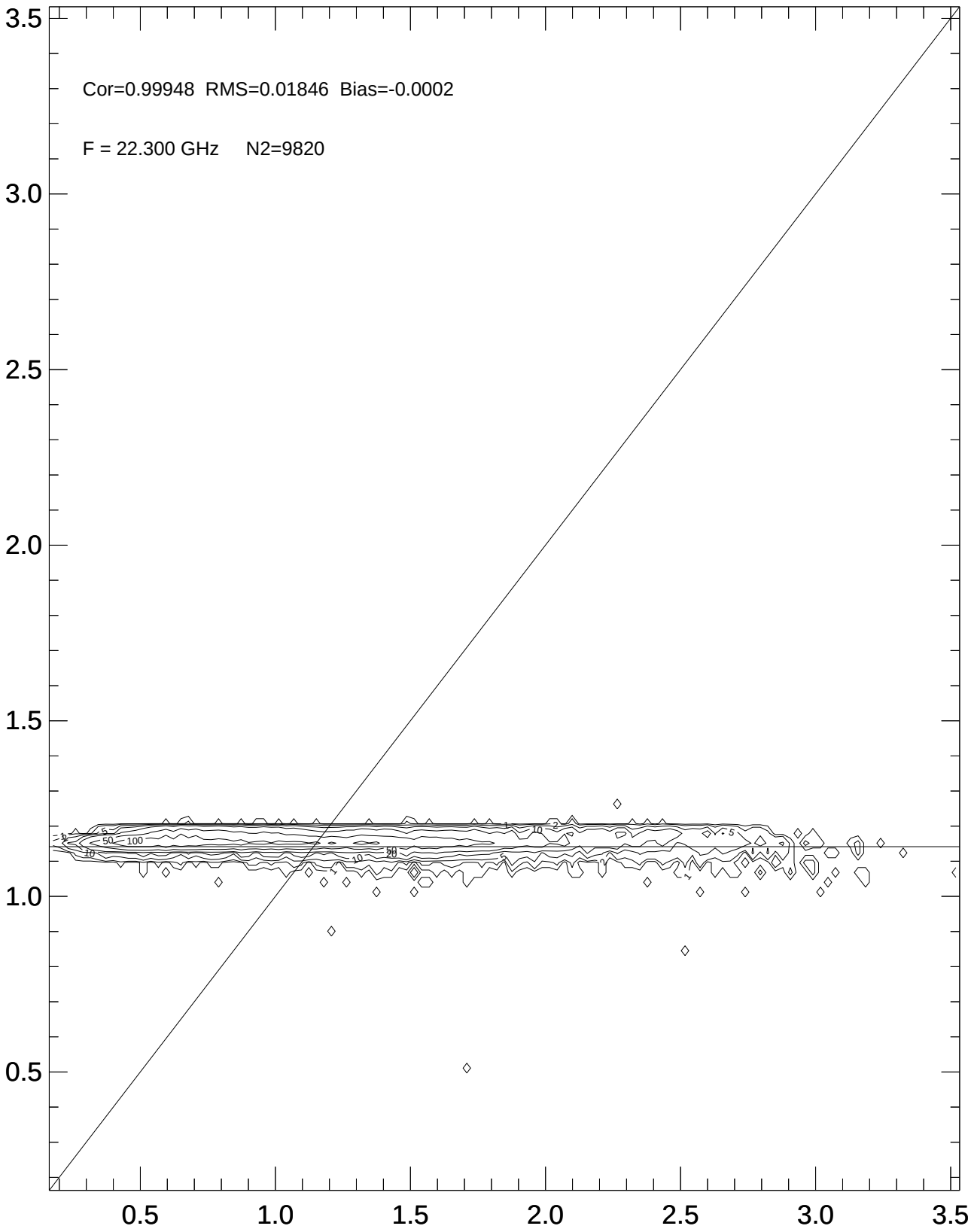

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0
3.5

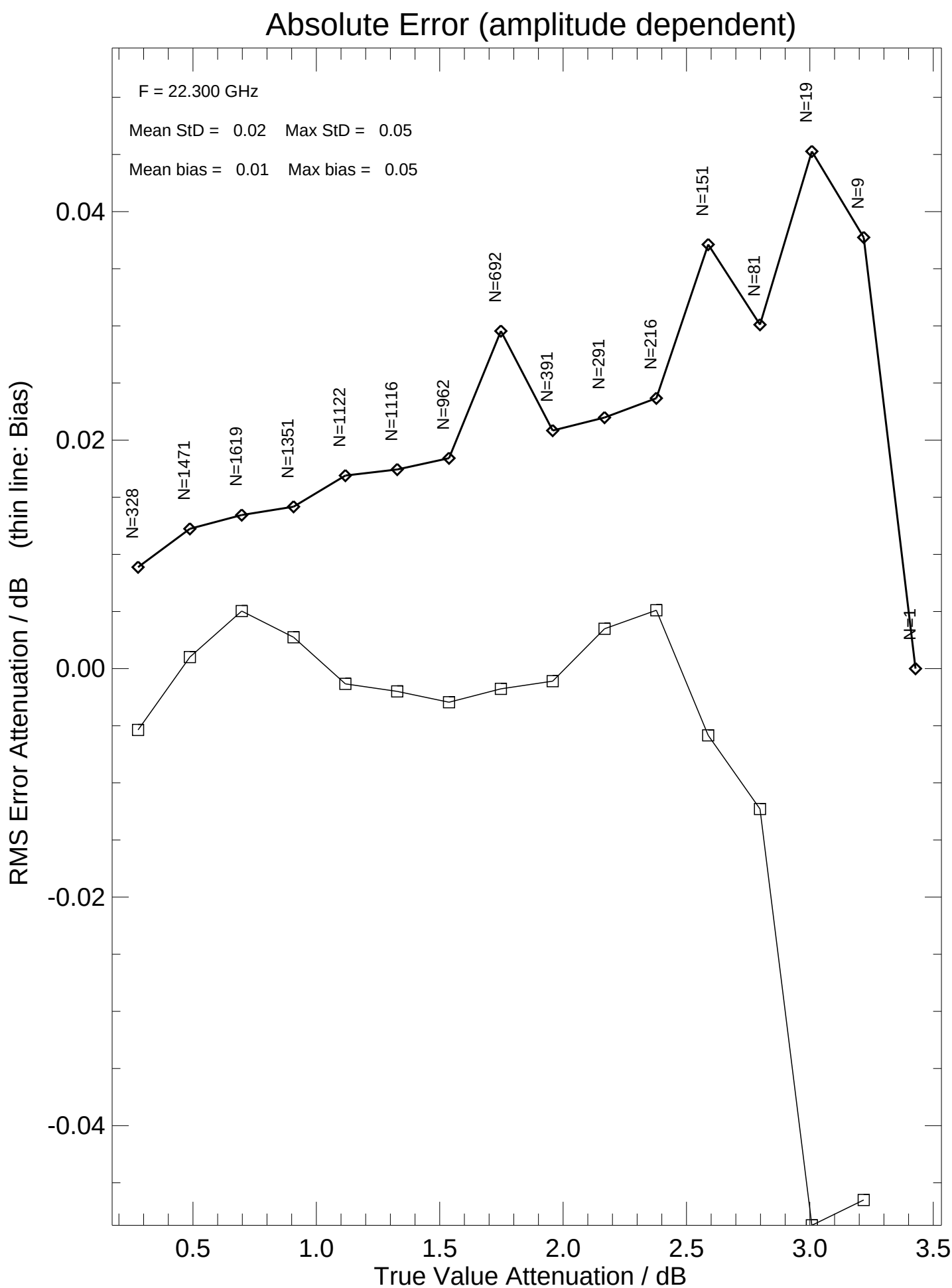

Cor=0.99948 RMS=0.01846 Bias=-0.0002
F = 22.250 GHz N2=9820
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0
3.5

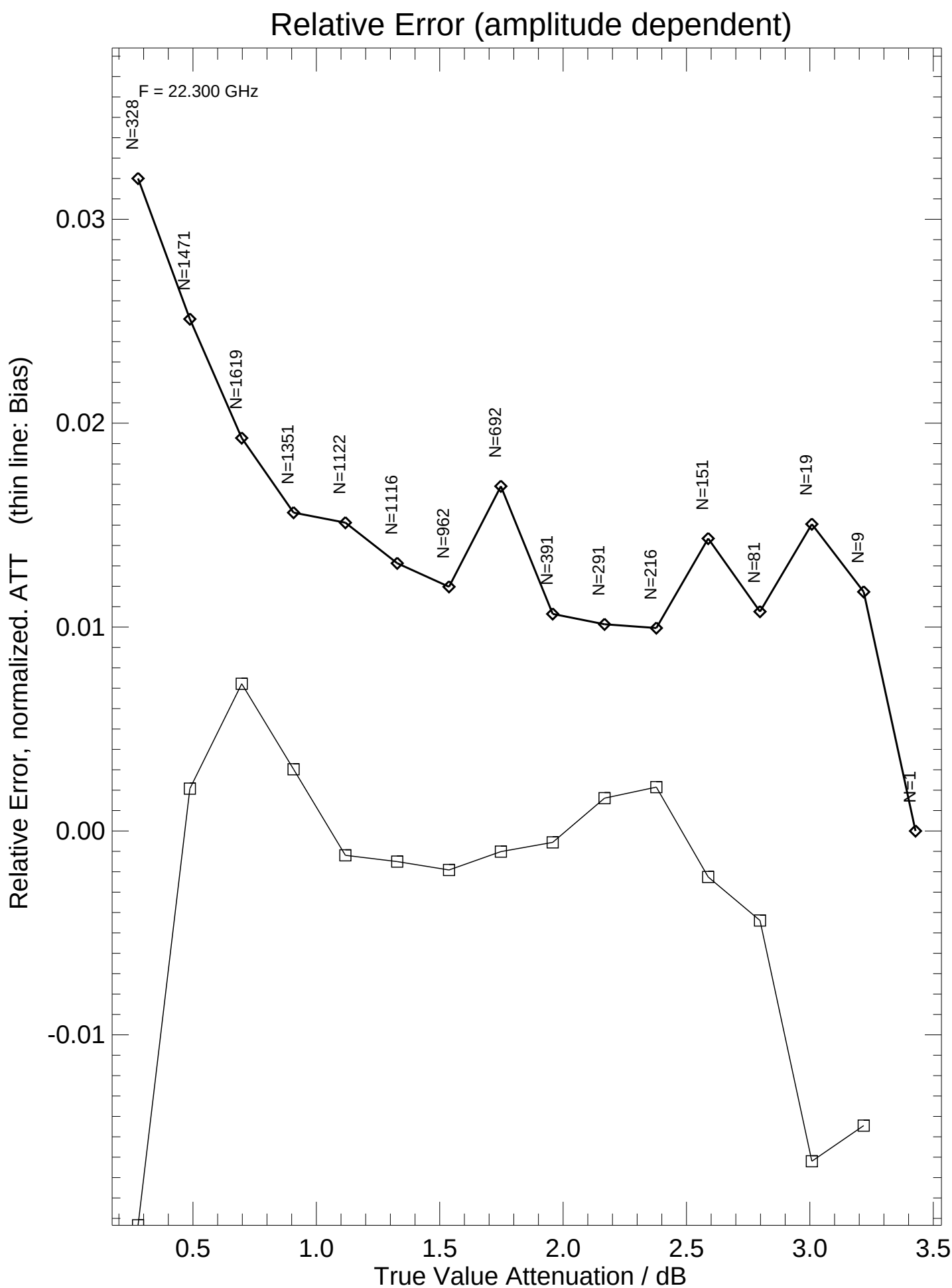

Absolute Error (amplitude dependent)
F = 22.250 GHz
Mean StD = 0.02 Max StD = 0.05
Mean bias = 0.01 Max bias = 0.05
N=328
N=1471
N=1619
N=1351
N=1122
N=1116
N=962
N=692
N=391
N=291
N=216
N=151
N=81
N=19
N=9
N=1
0.04
0.02
0.00
-0.02
-0.04
0.5
1.0
1.5
2.0
2.5
3.0
3.5
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

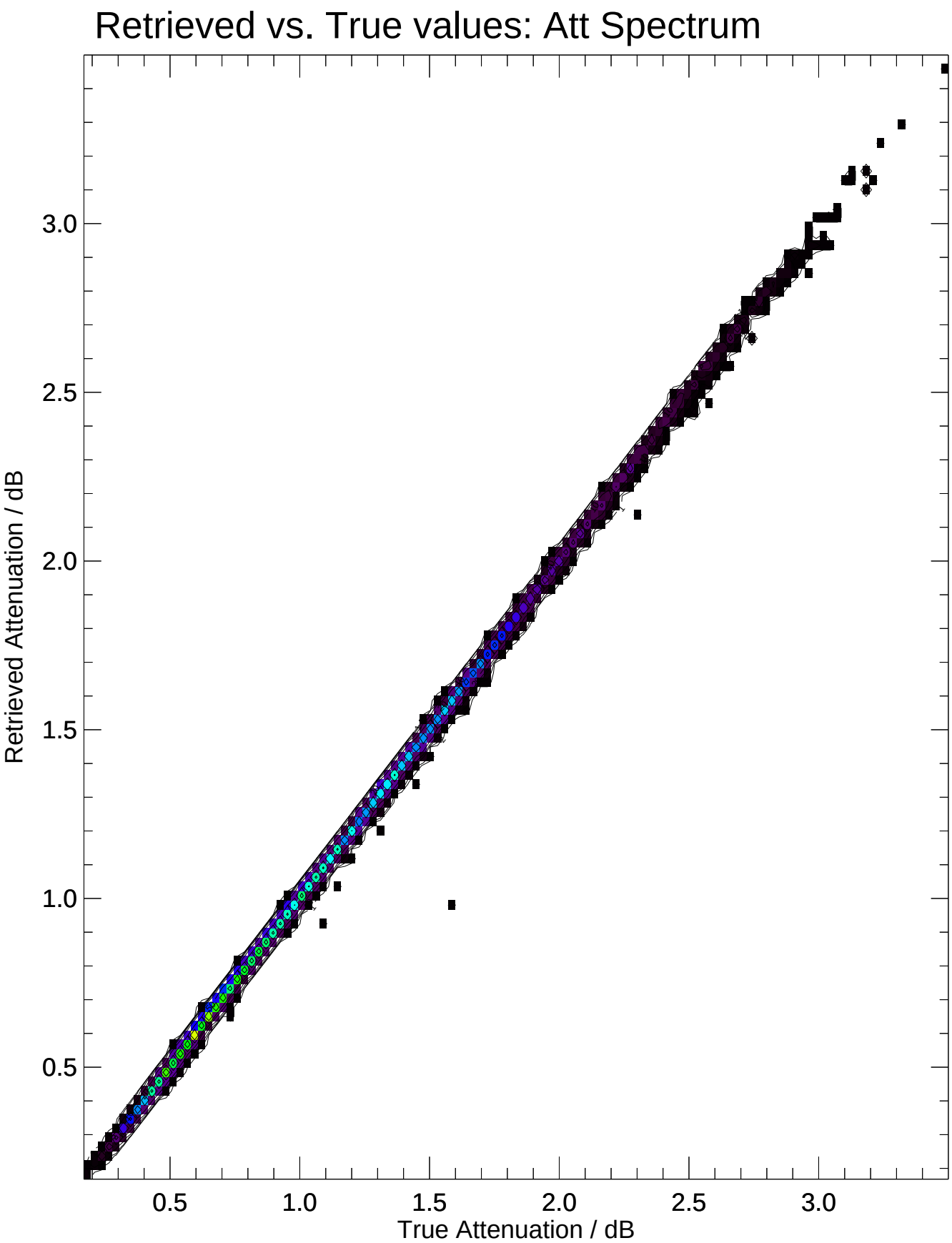

Relative Error (amplitude dependent)
F = 22.250 GHz
N=328
N=1471
N=1619
N=1351
N=1122
N=1116
N=962
N=692
N=391
N=291
N=216
N=151
N=81
N=19
N=9
N=1
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
3.0
3.5
True Value Attenuation / dB

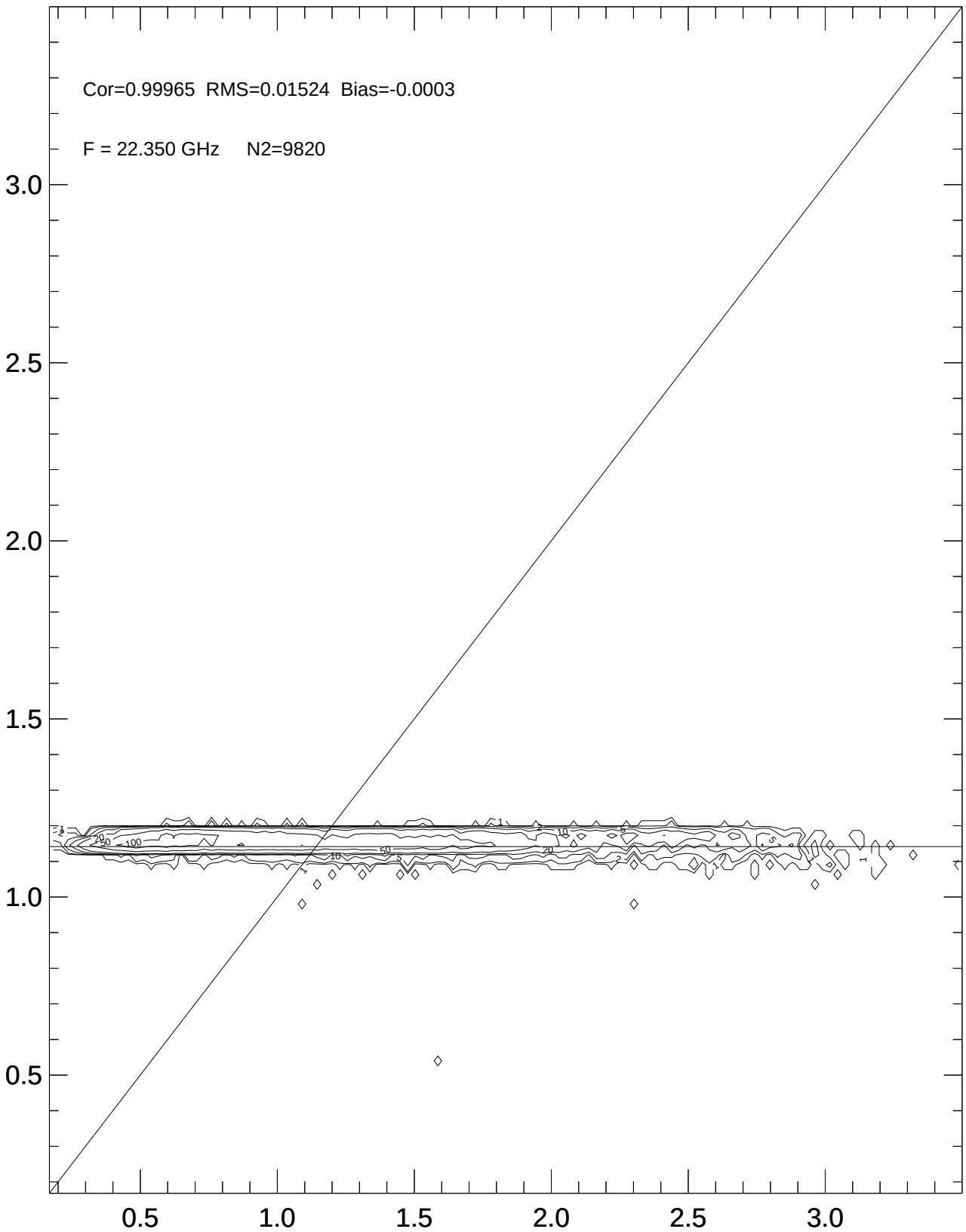

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0
3.5

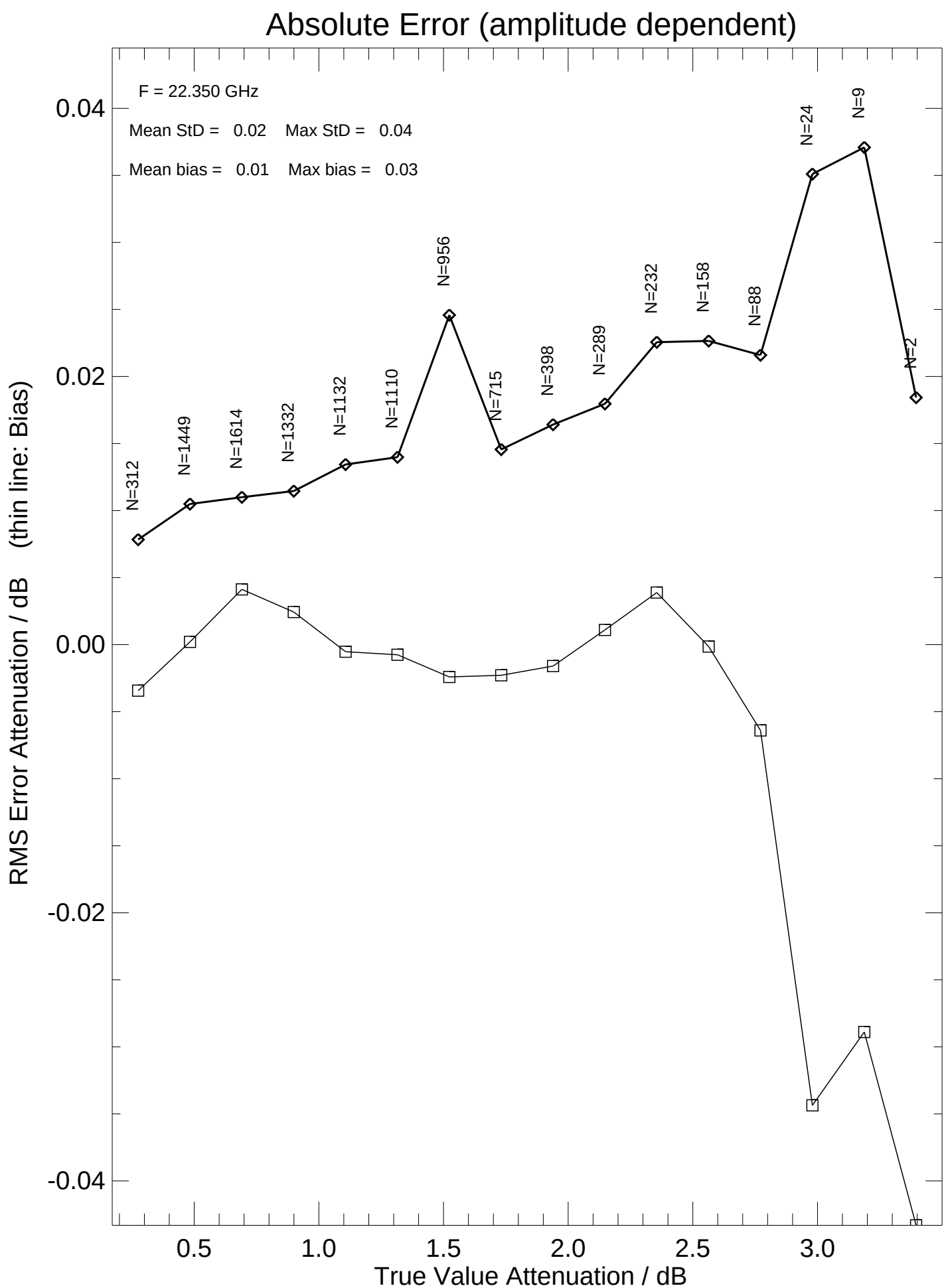

Cor=0.99948 RMS=0.01846 Bias=-0.0002
F = 22.300 GHz N2=9820
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0
3.5

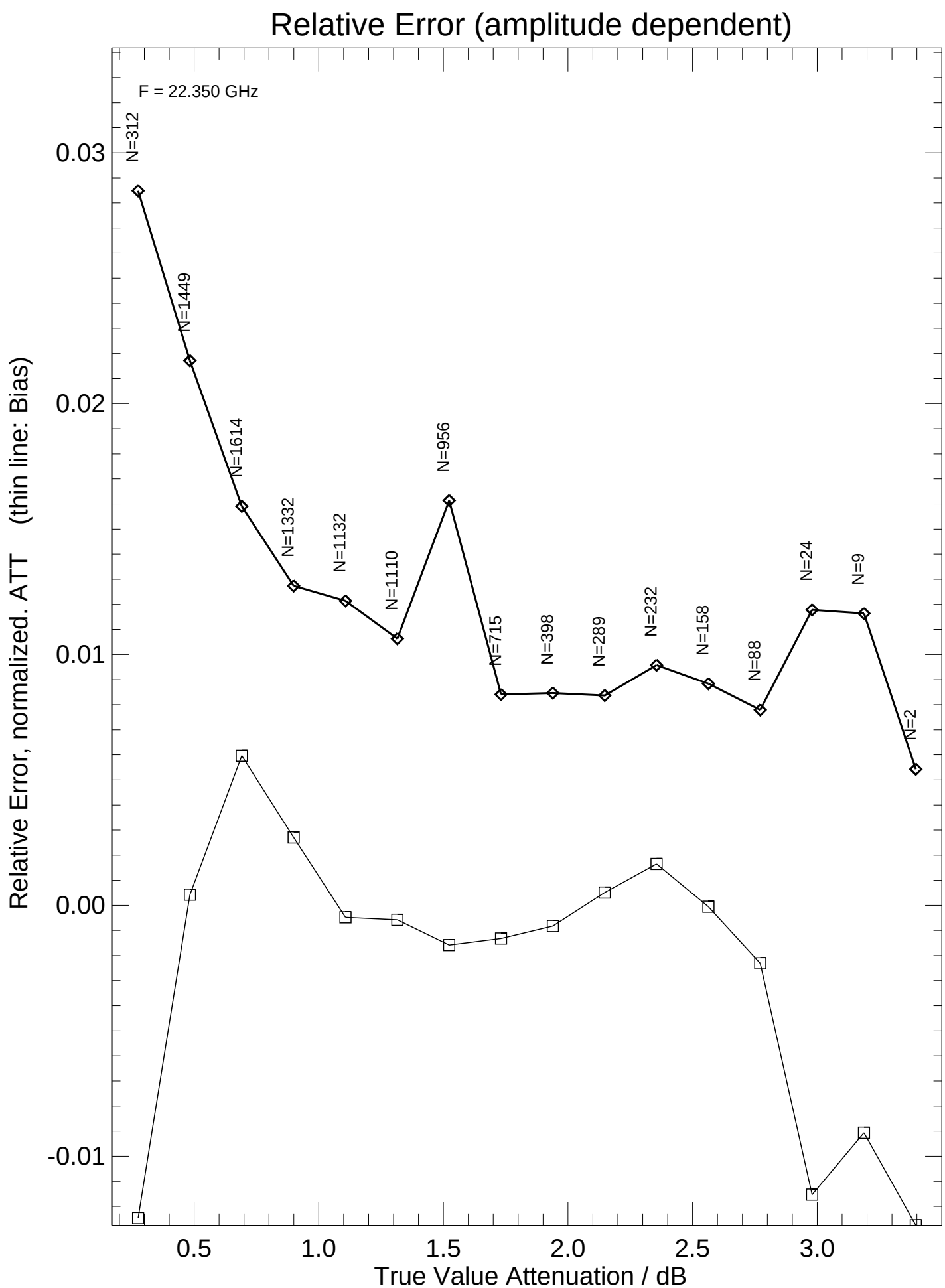

Absolute Error (amplitude dependent)
F = 22.300 GHz
Mean StD = 0.02 Max StD = 0.05
Mean bias = 0.01 Max bias = 0.05
N=328
N=1471
N=1619
N=1351
N=1122
N=1116
N=962
N=692
N=391
N=291
N=216
N=151
N=81
N=19
N=9
N=1
0.04
0.02
0.00
-0.02
-0.04
0.5
1.0
1.5
2.0
2.5
3.0
3.5
True Value Attenuation / dB
RMS Error Attenuation / dB (thin line: Bias)

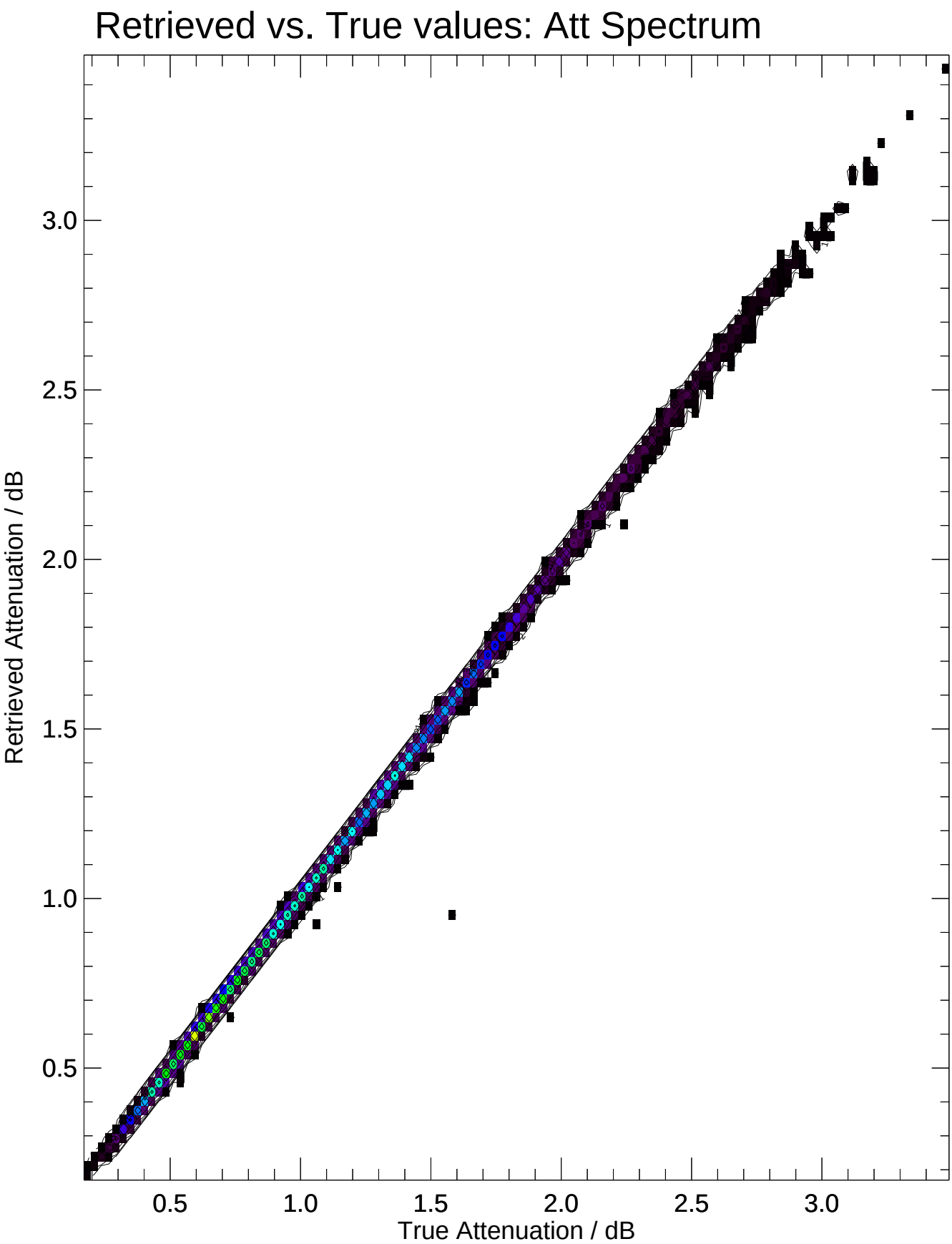

Relative Error (amplitude dependent)
F = 22.300 GHz
N=328
N=1471
N=1619
N=1351
N=1122
N=1116
N=962
N=692
N=391
N=291
N=216
N=151
N=81
N=19
N=9
N=1
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
3.0
3.5
True Value Attenuation / dB

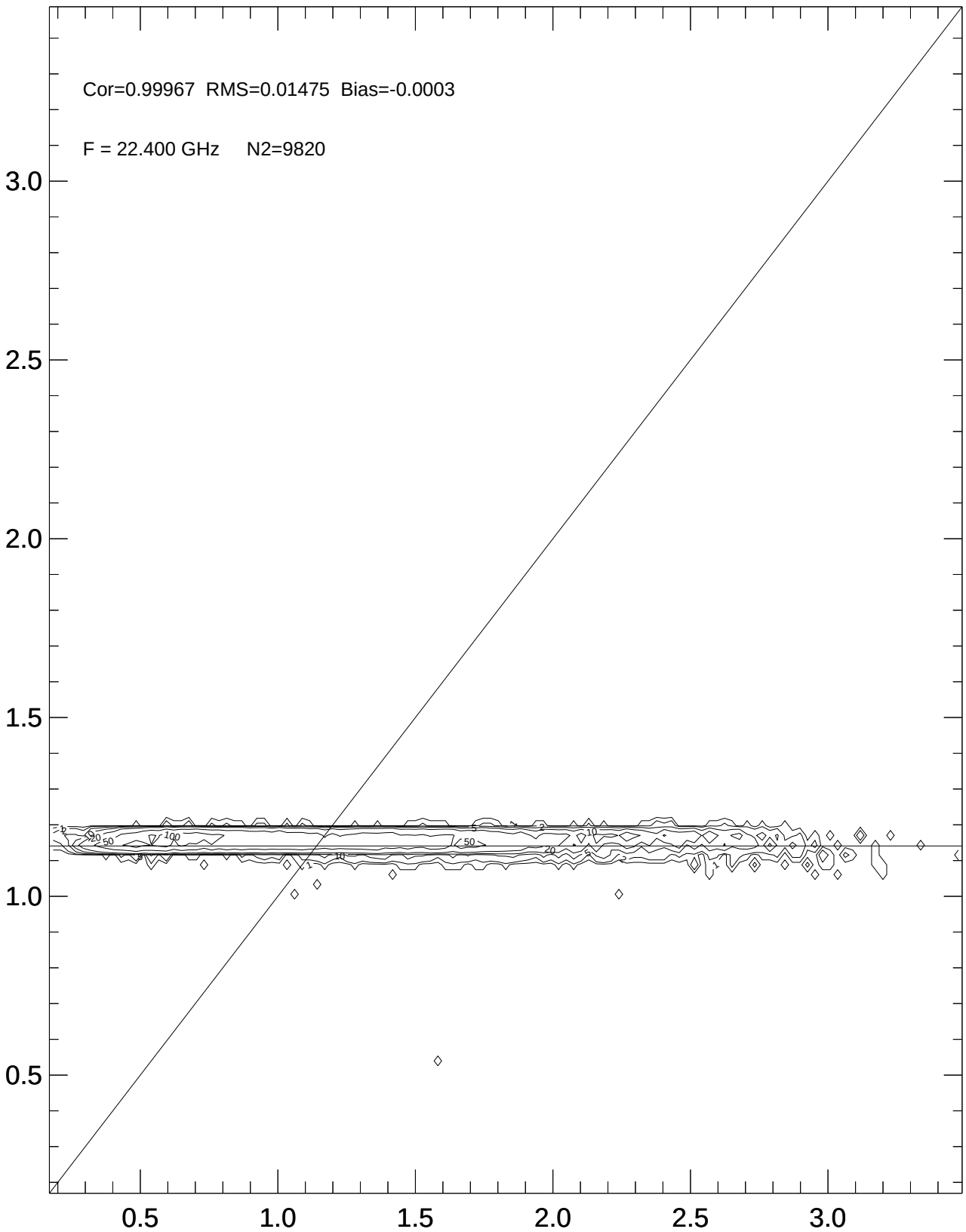

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0

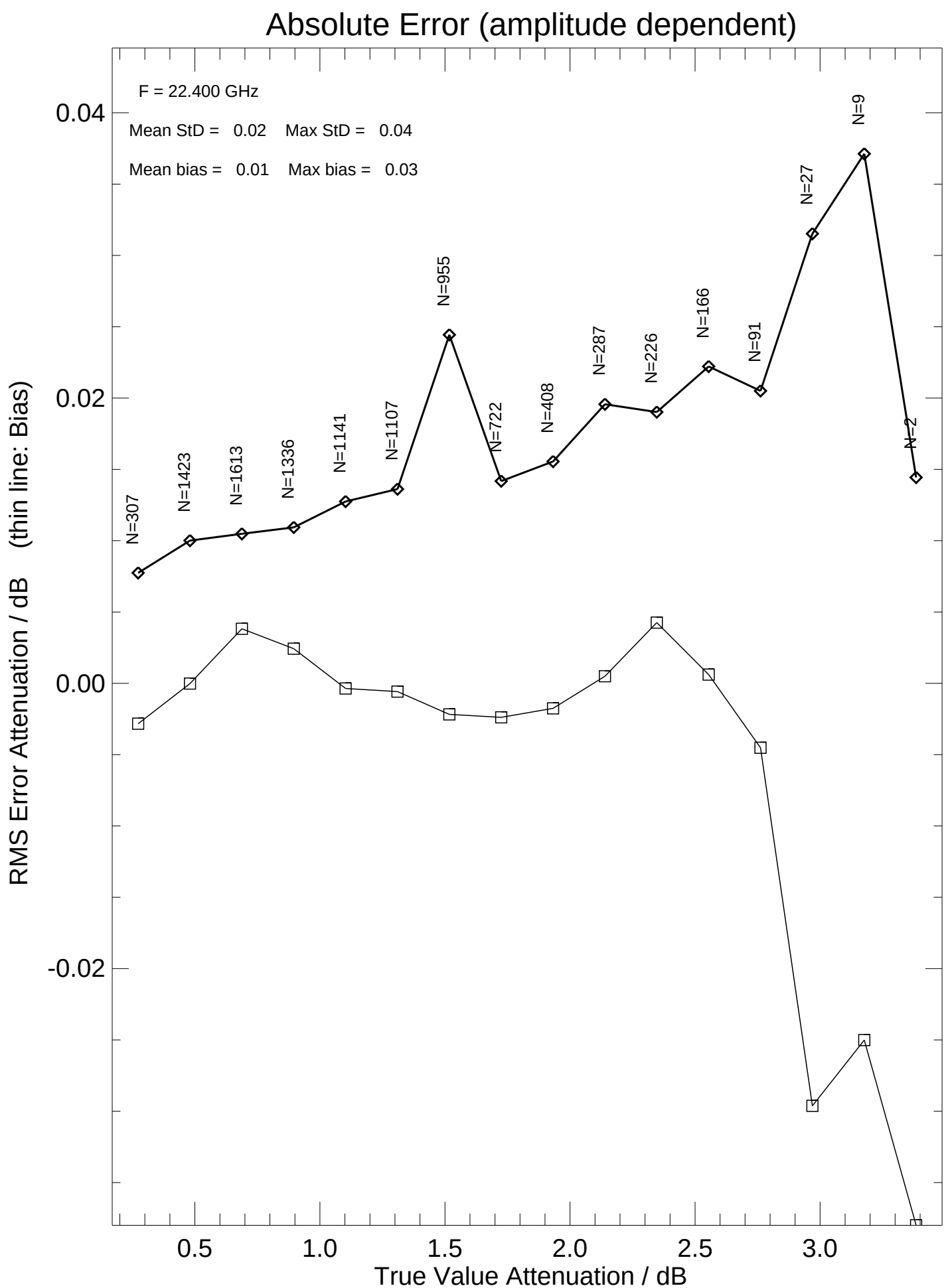

Cor=0.99965 RMS=0.01524 Bias=-0.0003
F = 22.350 GHz N2=9820
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0

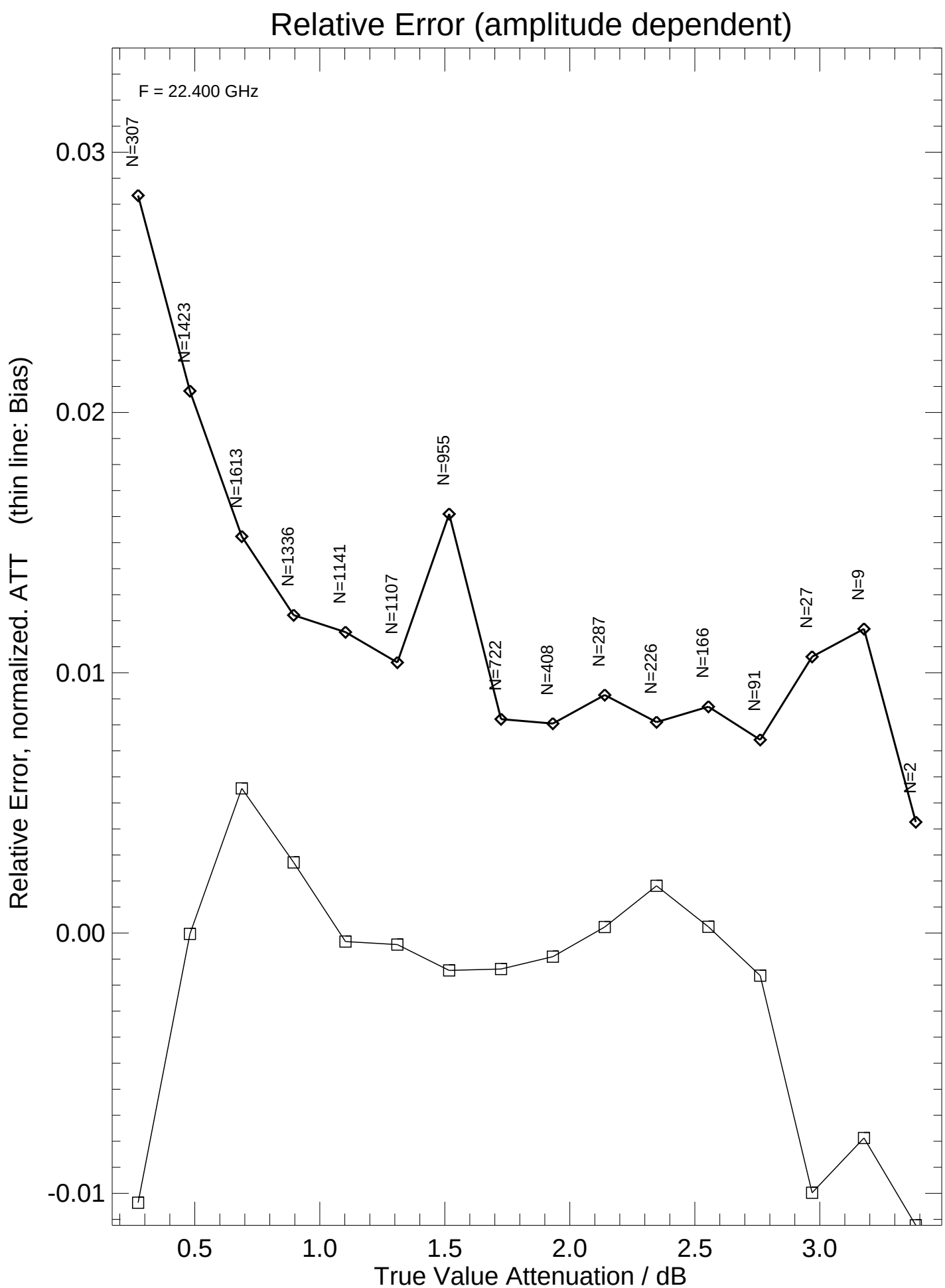

Absolute Error (amplitude dependent)
F = 22.350 GHz
Mean StD = 0.02 Max StD = 0.04
Mean bias = 0.01 Max bias = 0.03
N=312
N=1449
N=1614
N=1332
N=1132
N=1110
N=956
N=715
N=398
N=289
N=232
N=158
N=88
N=24
N=9
N=2
0.04
0.02
0.00
-0.02
-0.04
0.5
1.0
1.5
2.0
2.5
3.0
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

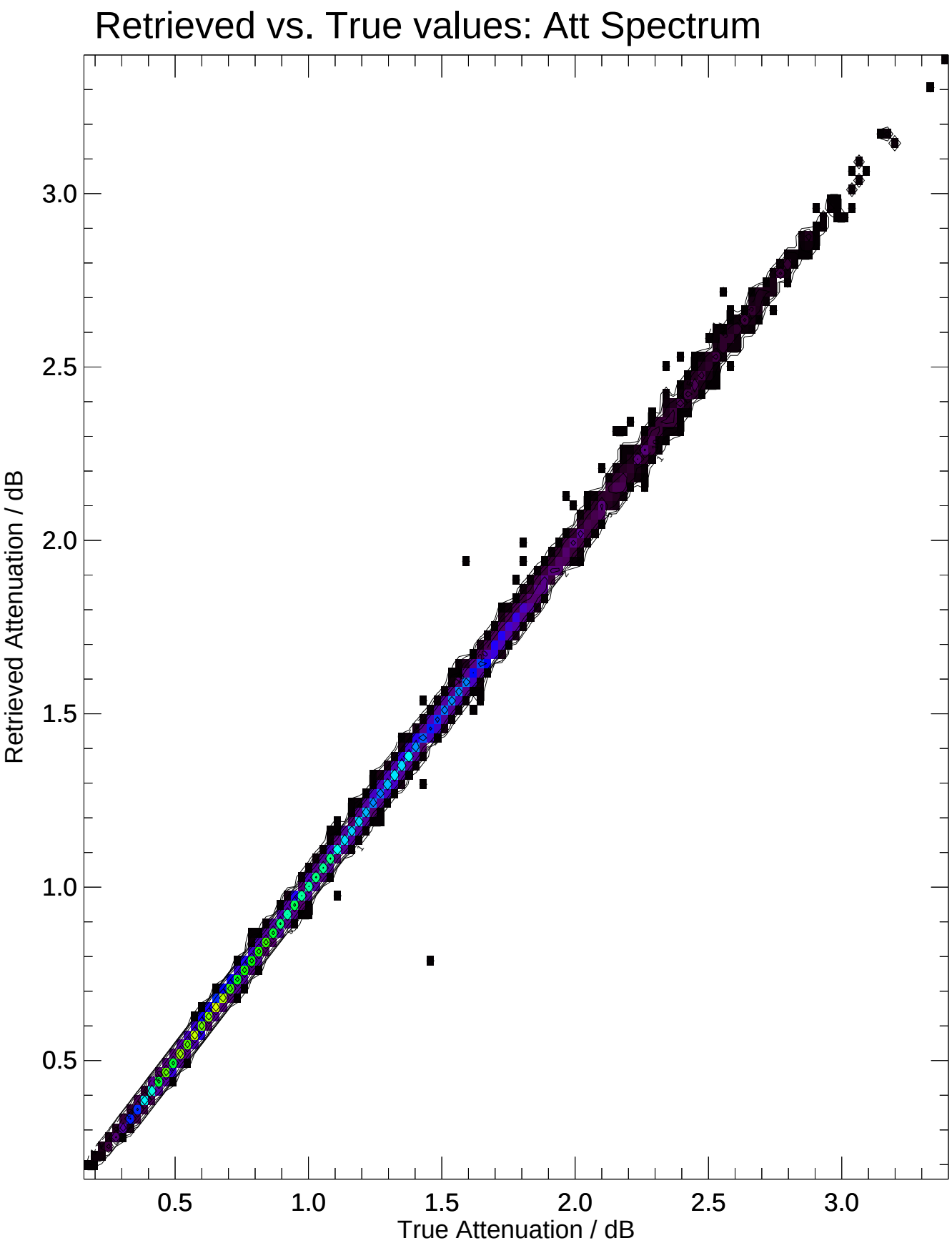

Relative Error (amplitude dependent)
F = 22.350 GHz
N=312
N=1449
N=1614
N=1332
N=1132
N=1110
N=956
N=715
N=398
N=289
N=232
N=158
N=88
N=24
N=9
N=2
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
3.0
True Value Attenuation / dB

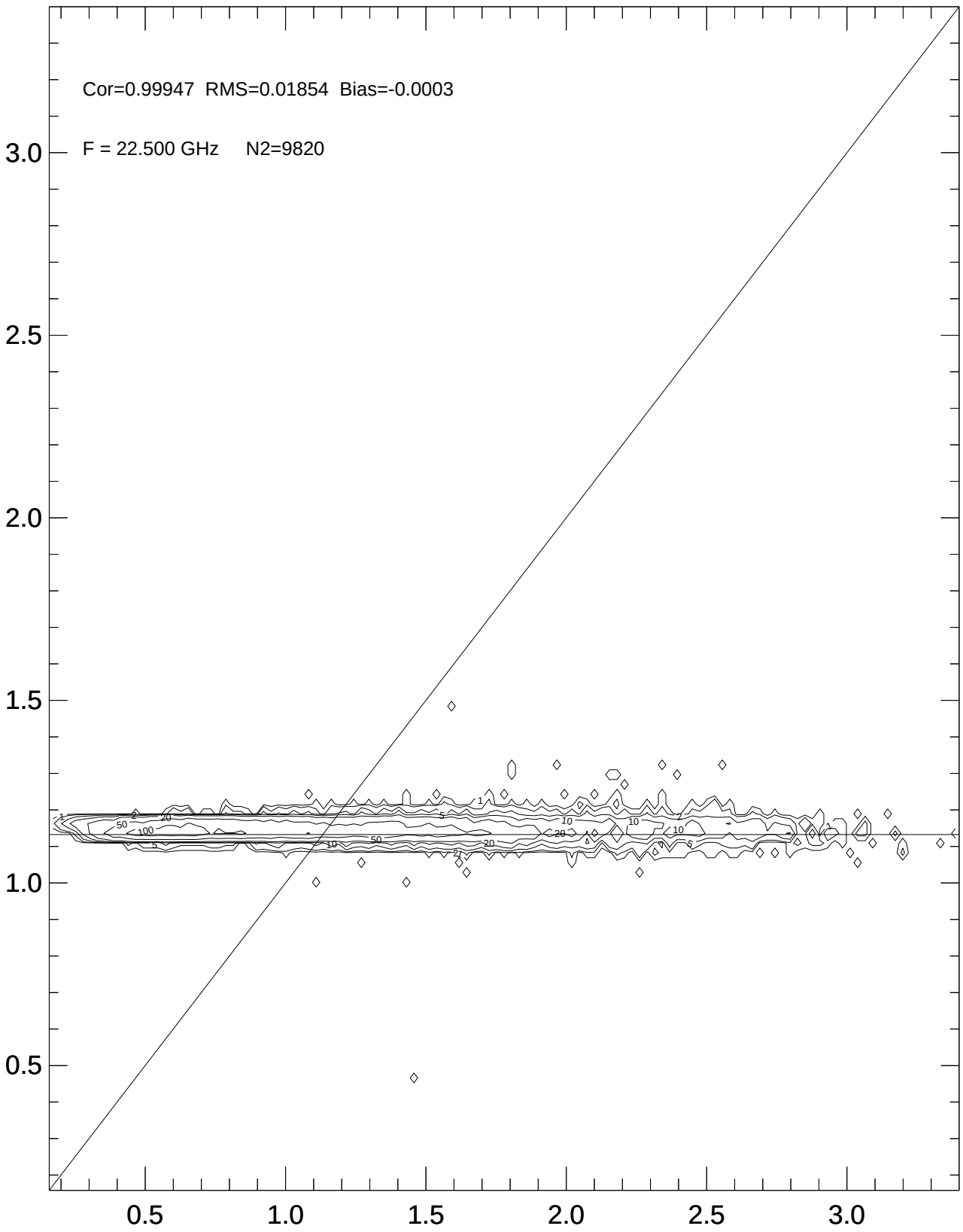

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0

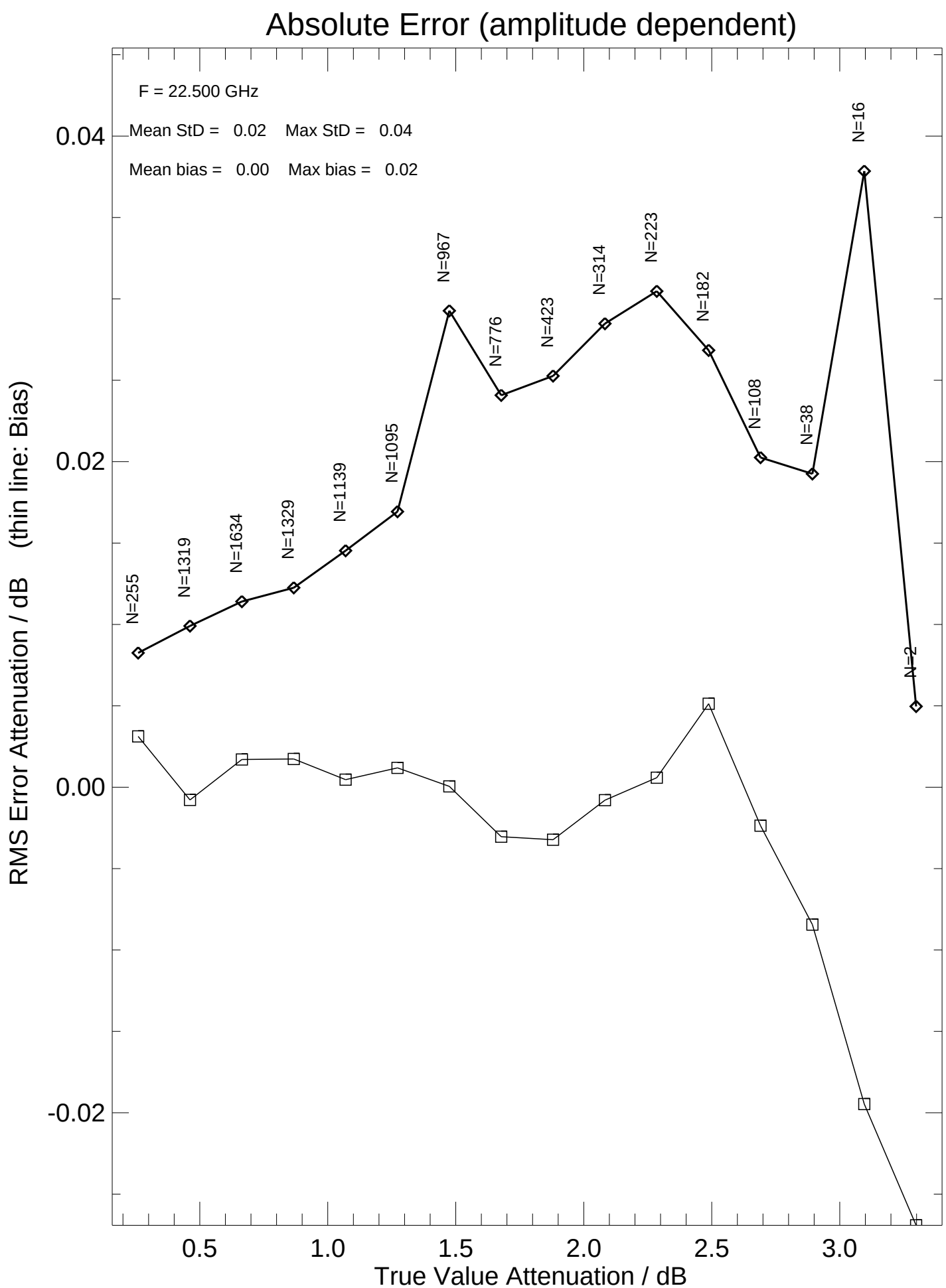

Cor=0.99967 RMS=0.01475 Bias=-0.0003
F = 22.400 GHz N2=9820
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0

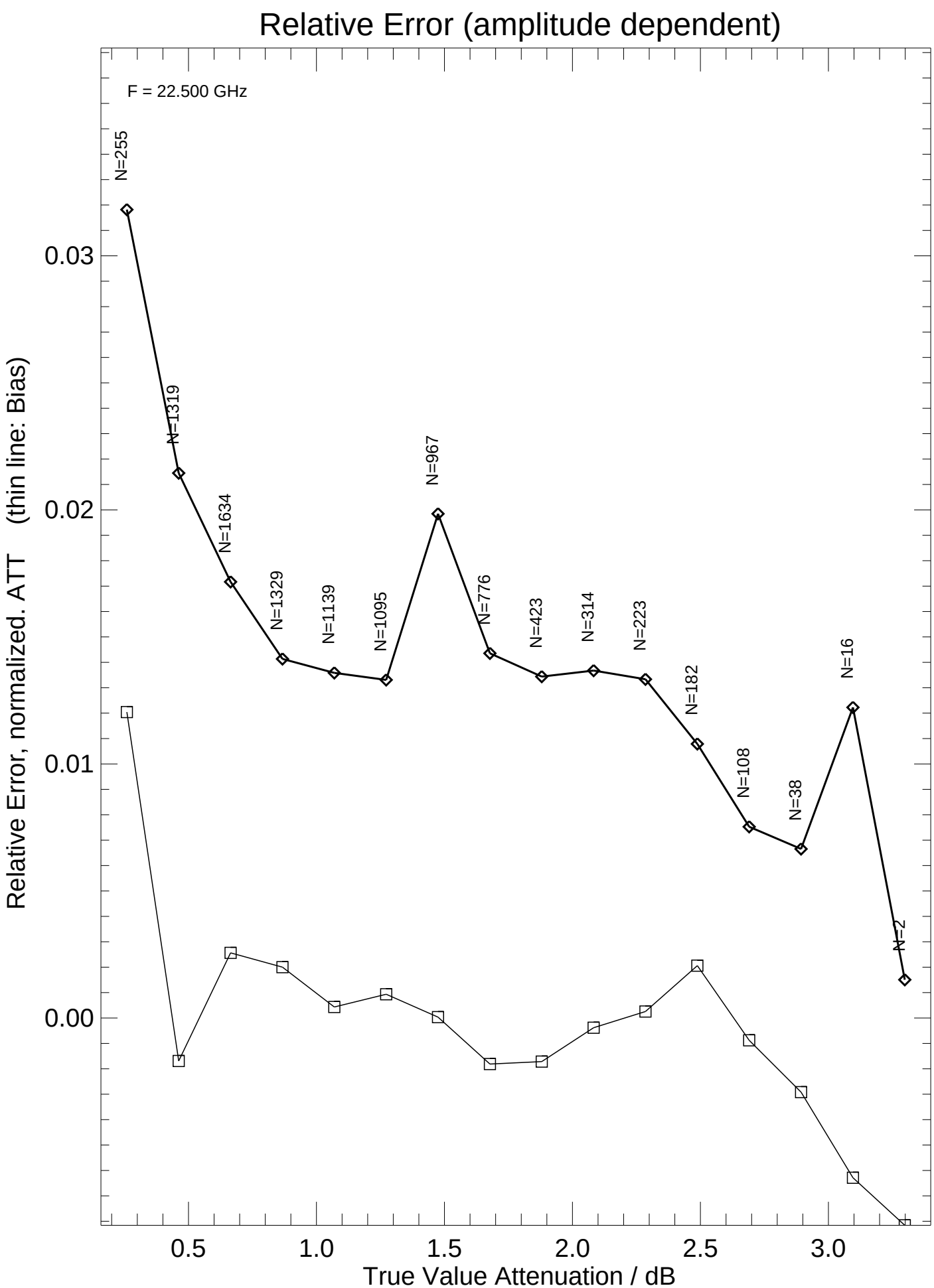

Absolute Error (amplitude dependent)
F = 22.400 GHz
Mean StD = 0.02 Max StD = 0.04
Mean bias = 0.01 Max bias = 0.03
N=307
N=1423
N=1613
N=1336
N=1141
N=1107
N=955
N=722
N=408
N=287
N=226
N=166
N=91
N=27
N=9
N=2
0.04
0.02
0.00
-0.02
0.5
1.0
1.5
2.0
2.5
3.0
True Value Attenuation / dB
RMS Error Attenuation / dB (thin line: Bias)

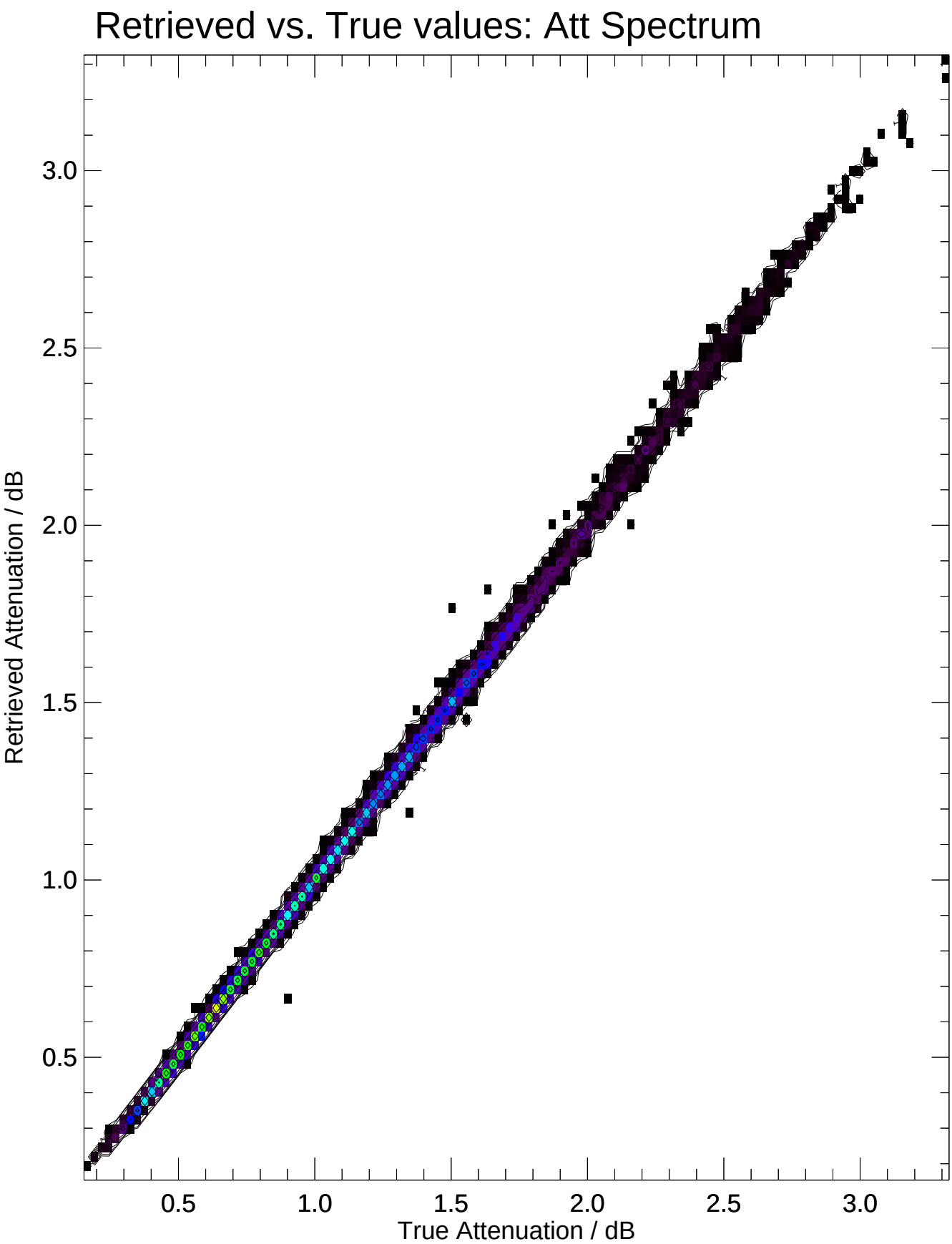

Relative Error (amplitude dependent)
F = 22.400 GHz
N=307
N=1423
N=1613
N=1336
N=1141
N=1107
N=955
N=722
N=408
N=287
N=226
N=166
N=91
N=27
N=9
N=2
0.03
0.02
0.01
0.00
-0.01
0.5
1.0
1.5
2.0
2.5
3.0
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

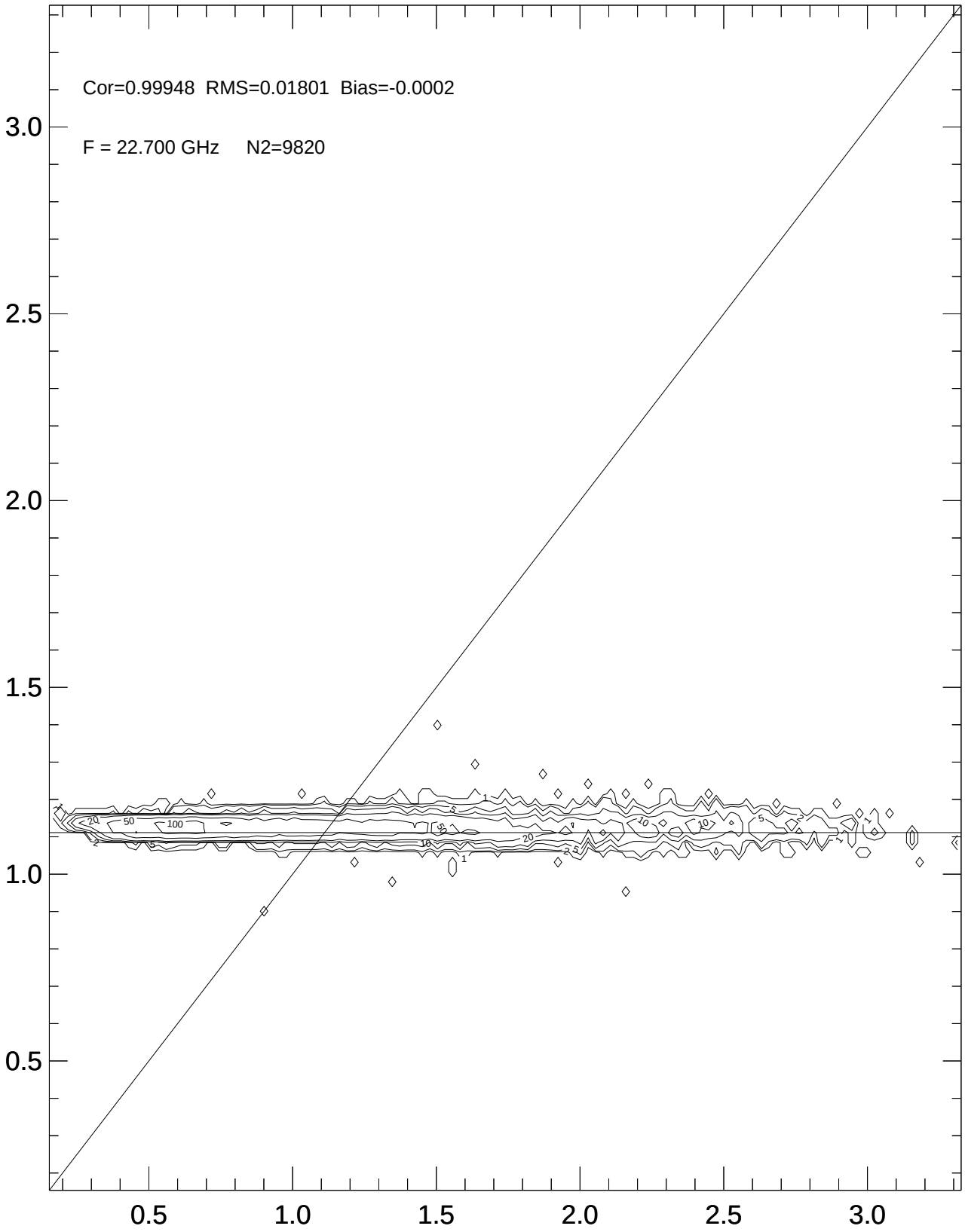

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0

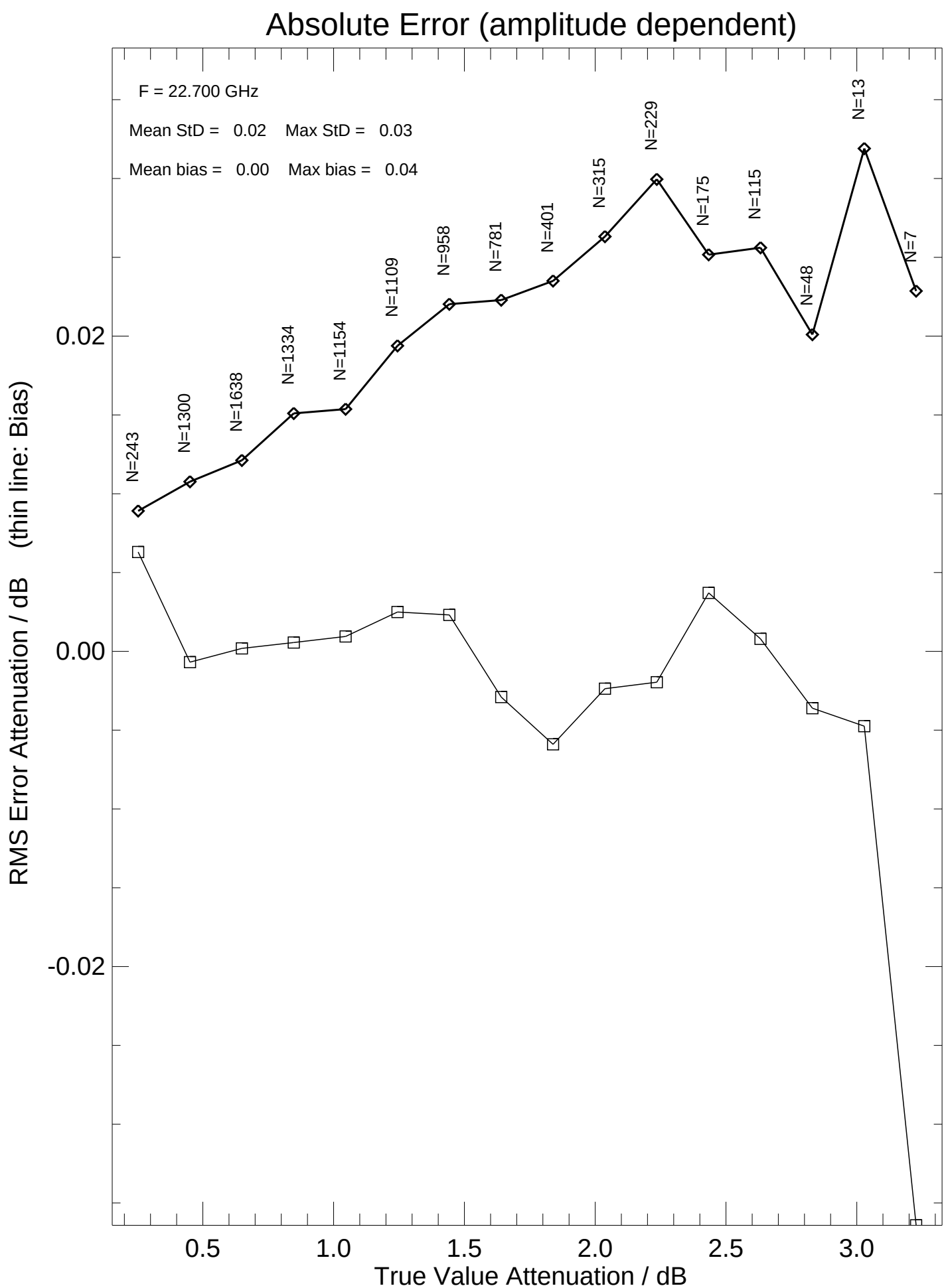

Cor=0.99947 RMS=0.01854 Bias=-0.0003
F = 22.500 GHz N2=9820
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0

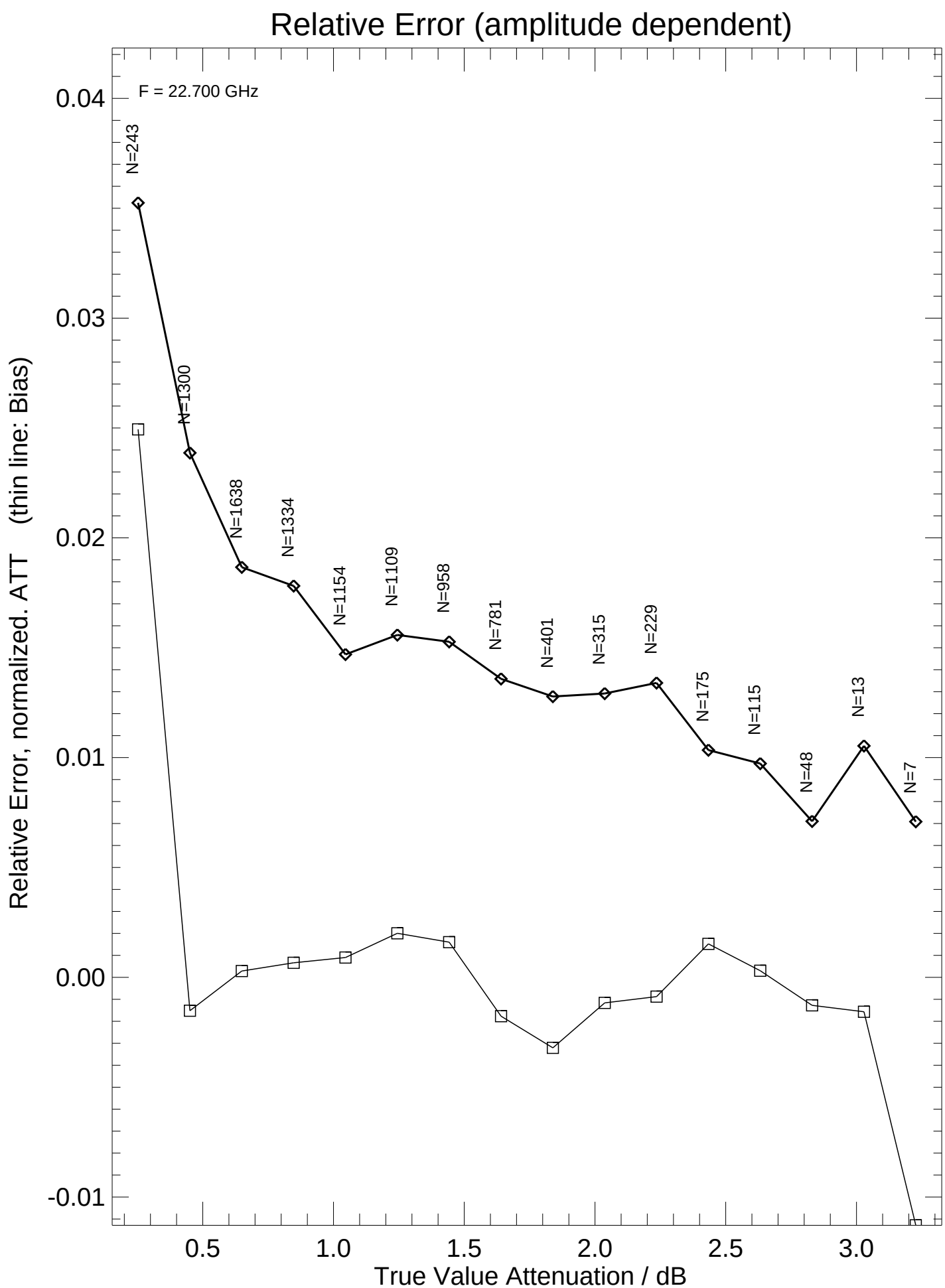

Absolute Error (amplitude dependent)
F = 22.500 GHz
Mean StD = 0.02 Max StD = 0.04
Mean bias = 0.00 Max bias = 0.02
0.04
0.02
0.00
-0.02
RMS Error Attenuation / dB (thin line: Bias)
N=255
N=1319
N=1634
N=1329
N=1139
N=1095
N=967
N=776
N=423
N=314
N=223
N=182
N=108
N=38
N=16
N=2
0.5
1.0
1.5
2.0
2.5
3.0
True Value Attenuation / dB

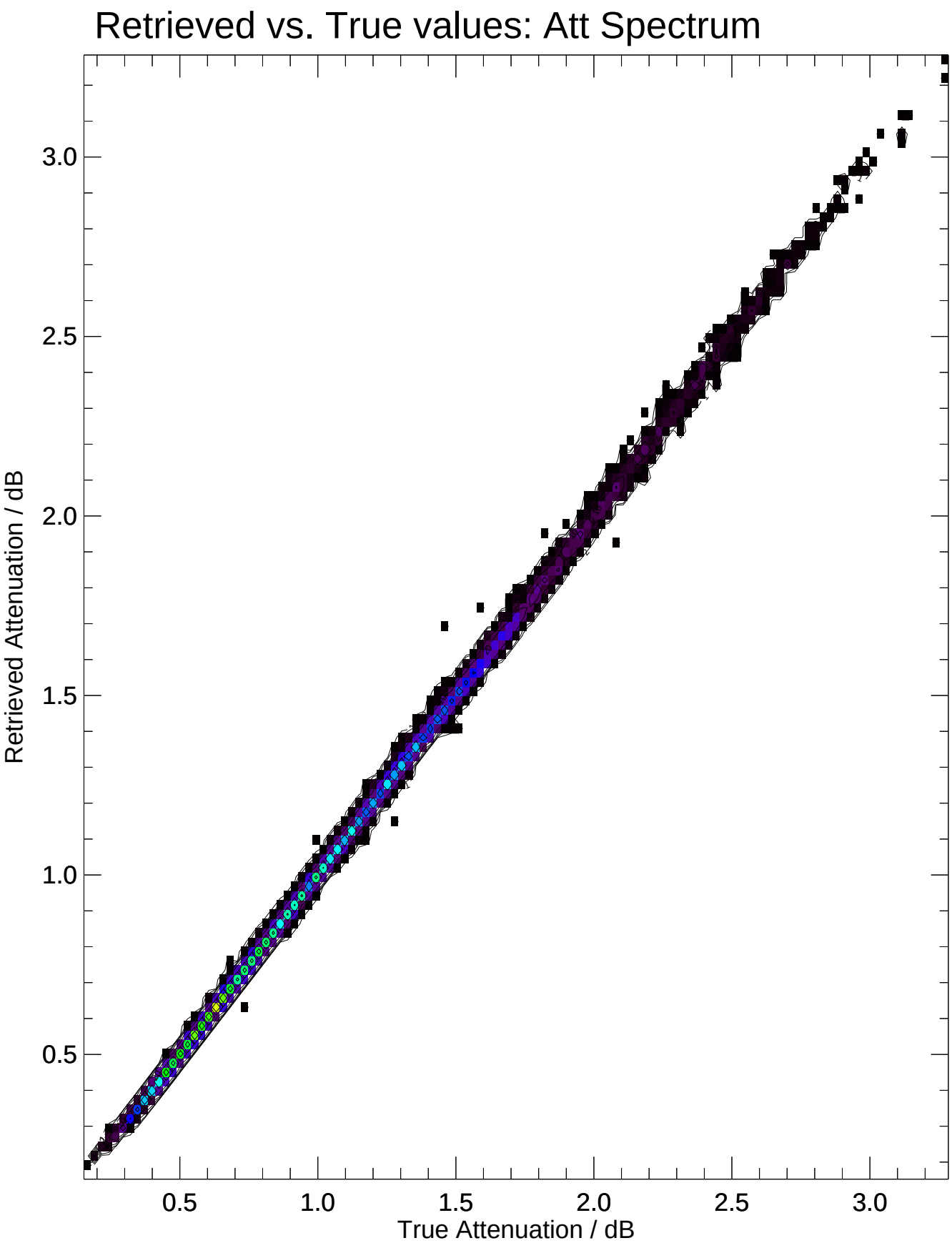

Relative Error (amplitude dependent)
F = 22.500 GHz
N=255
N=1319
N=1634
N=1329
N=1139
N=1095
N=967
N=776
N=423
N=314
N=223
N=182
N=108
N=38
N=16
N=2
0.03
0.02
0.01
0.00
Relative Error, normalized. ATT (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
3.0
True Value Attenuation / dB

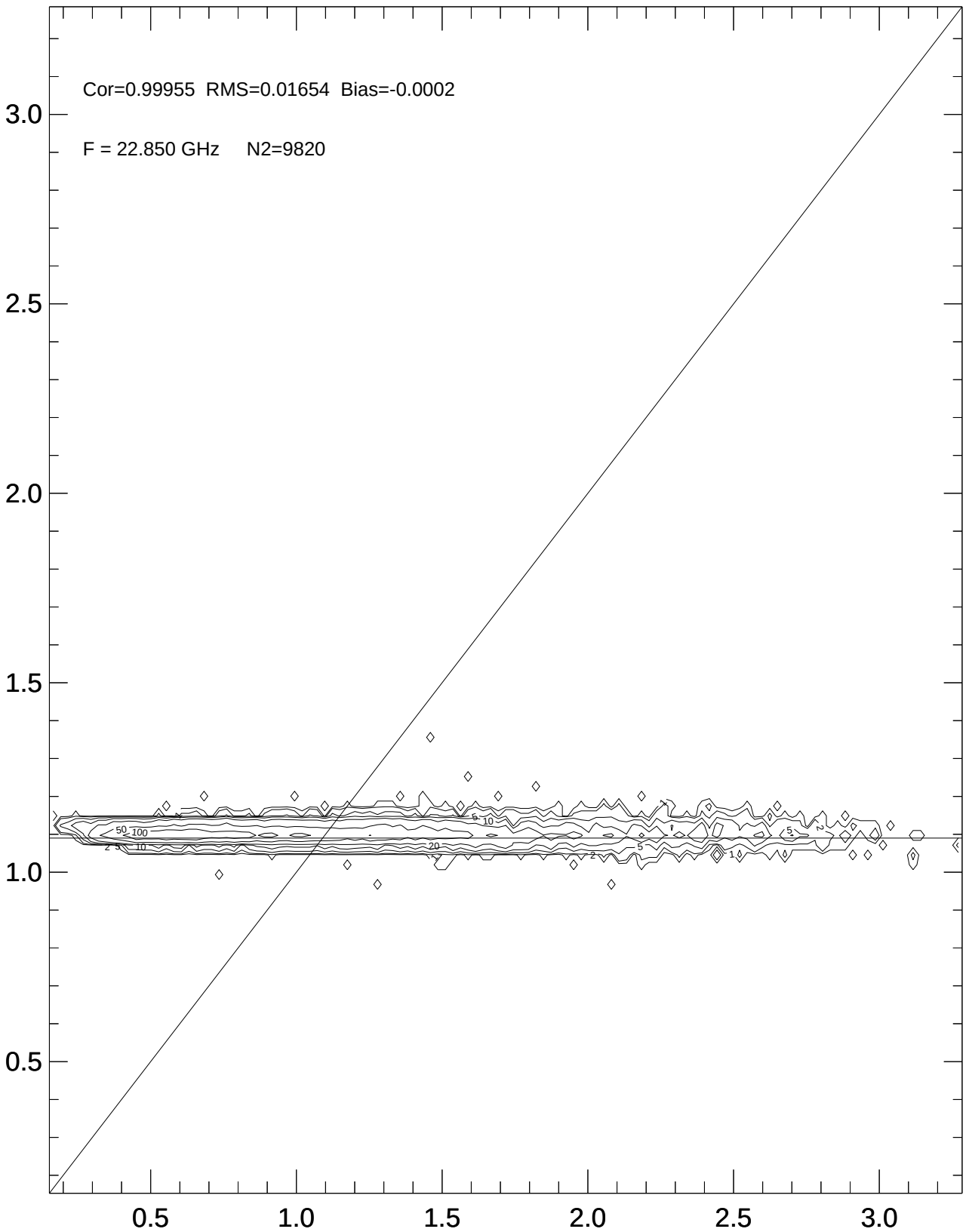

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0

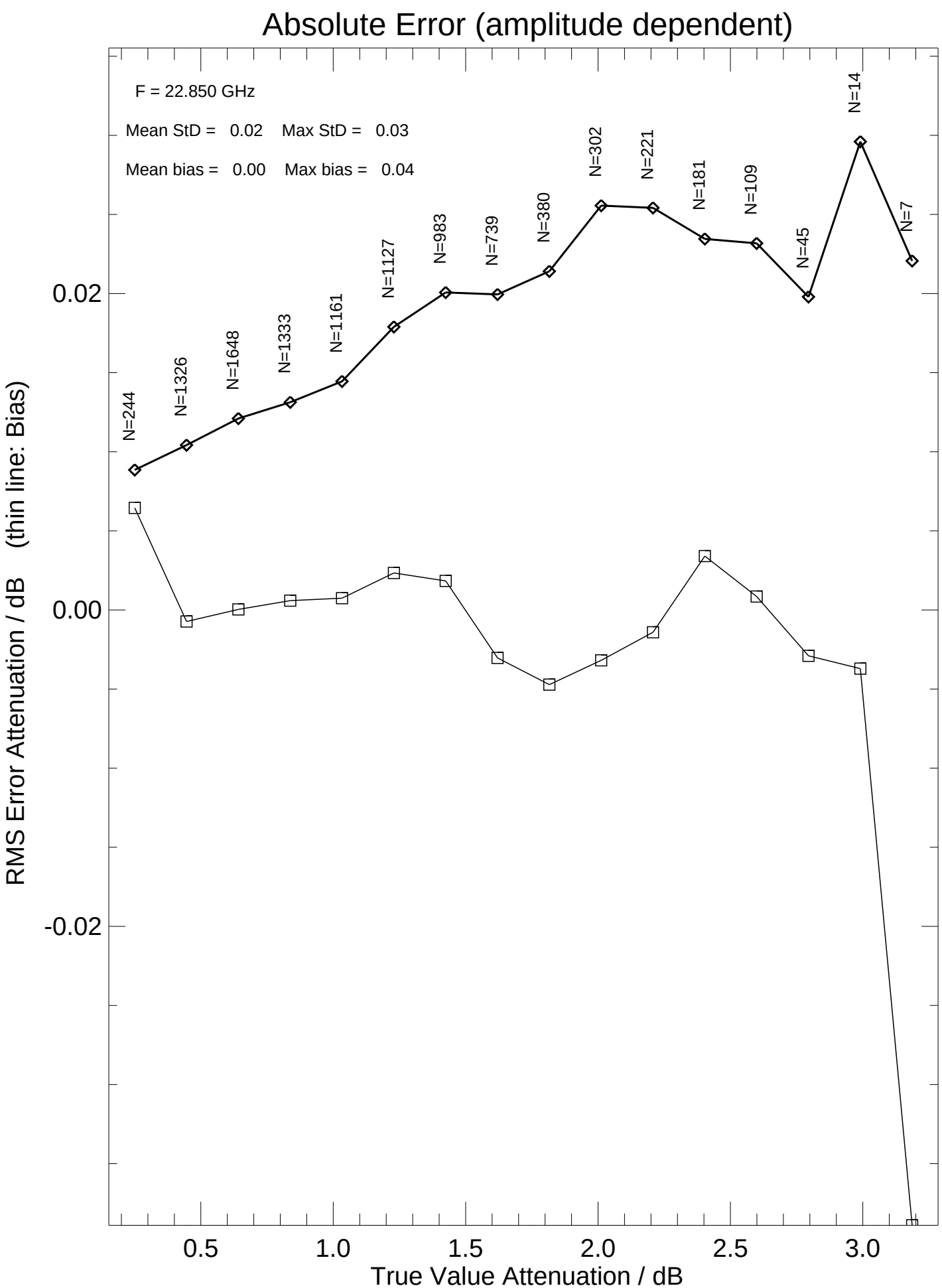

Cor=0.99948 RMS=0.01801 Bias=-0.0002
F = 22.700 GHz N2=9820
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0

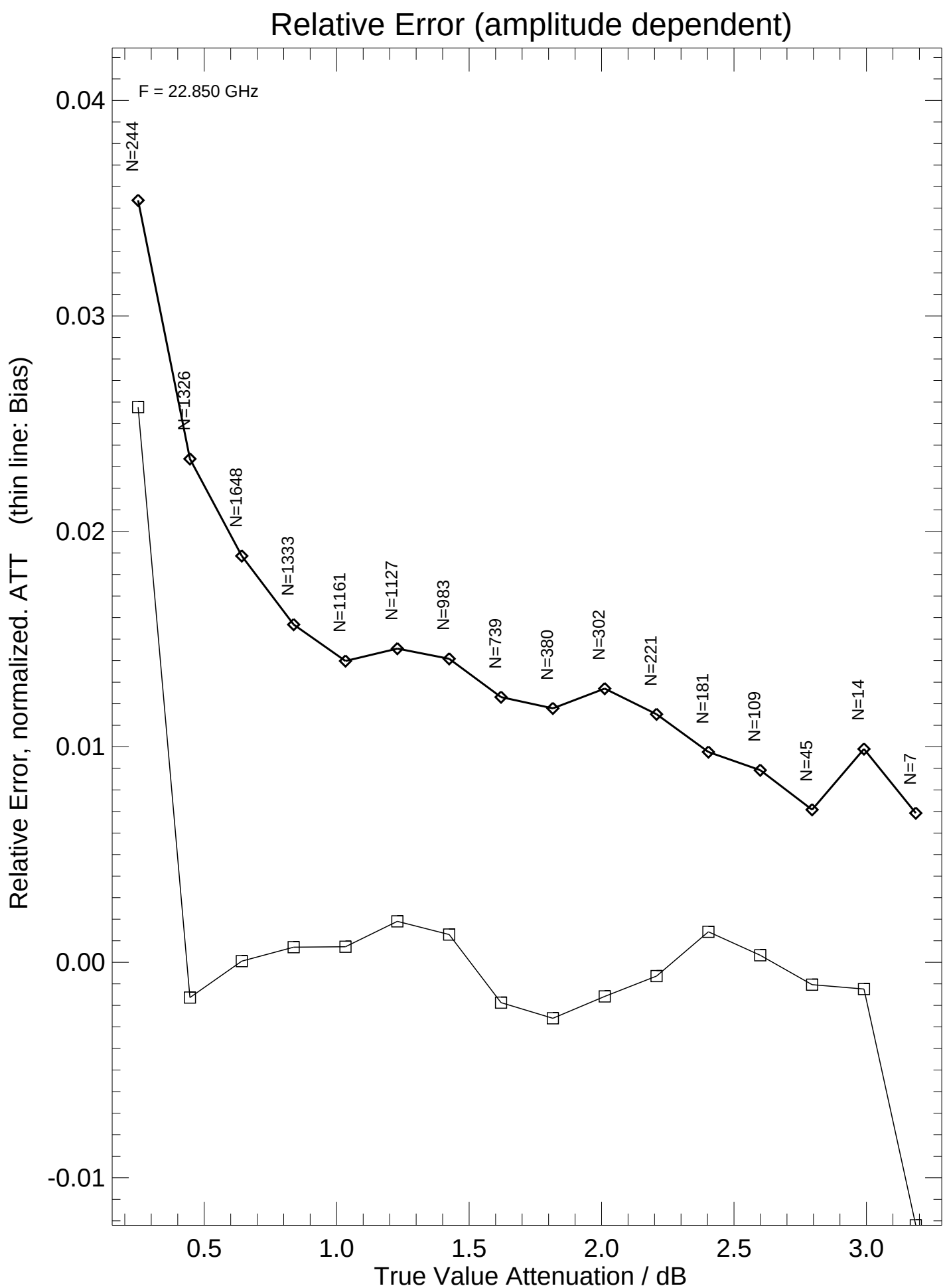

Absolute Error (amplitude dependent)
F = 22.700 GHz
Mean StD = 0.02 Max StD = 0.03
Mean bias = 0.00 Max bias = 0.04
N=243
N=1300
N=1638
N=1334
N=1154
N=1109
N=958
N=781
N=401
N=315
N=229
N=175
N=115
N=48
N=13
N=7
0.02
0.00
-0.02
RMS Error Attenuation / dB (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
3.0
True Value Attenuation / dB

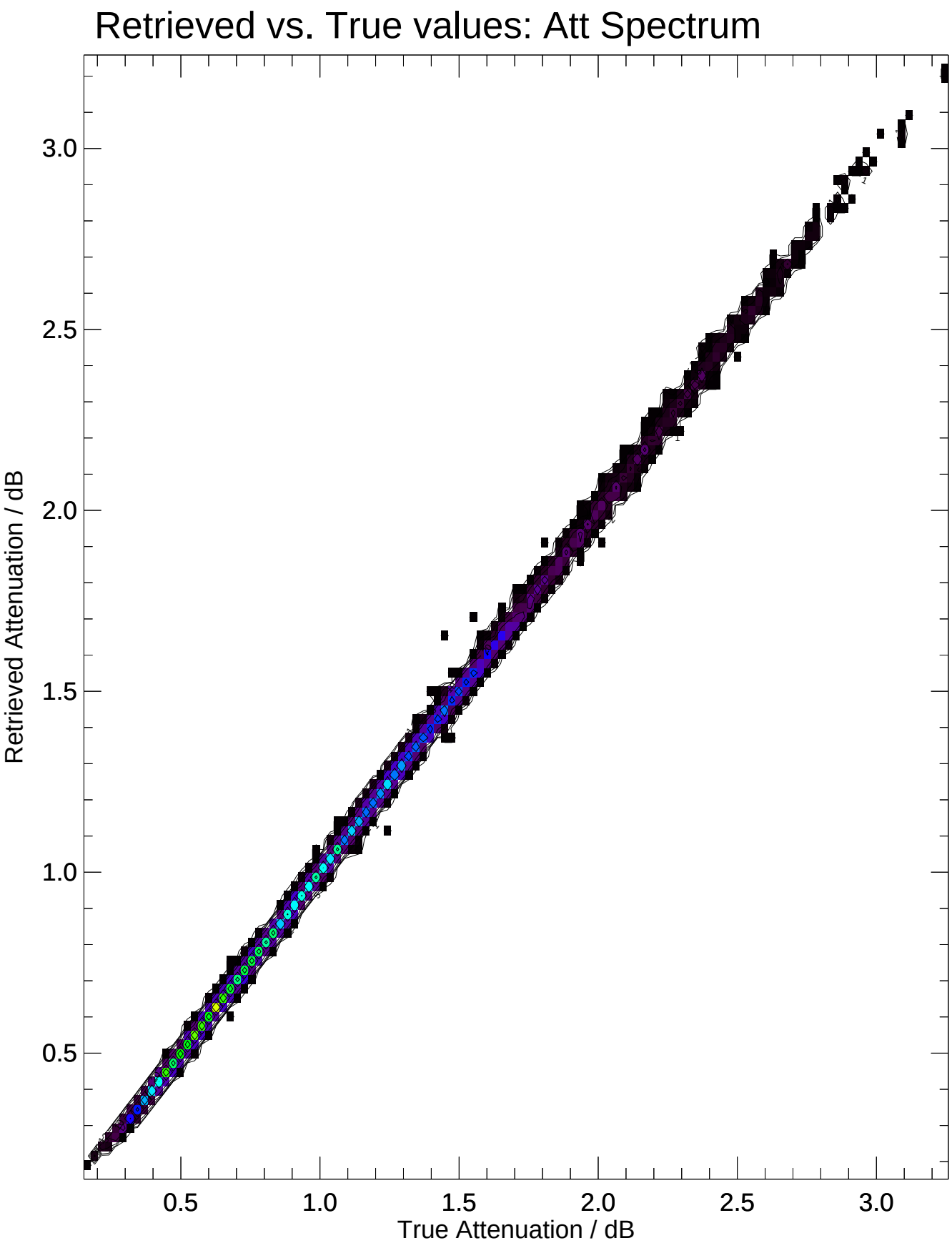

Relative Error (amplitude dependent)
F = 22.700 GHz
N=243
N=1300
N=1638
N=1334
N=1154
N=1109
N=958
N=781
N=401
N=315
N=229
N=175
N=115
N=48
N=13
N=7
0.04
0.03
0.02
0.01
0.00
-0.01
0.5
1.0
1.5
2.0
2.5
3.0
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

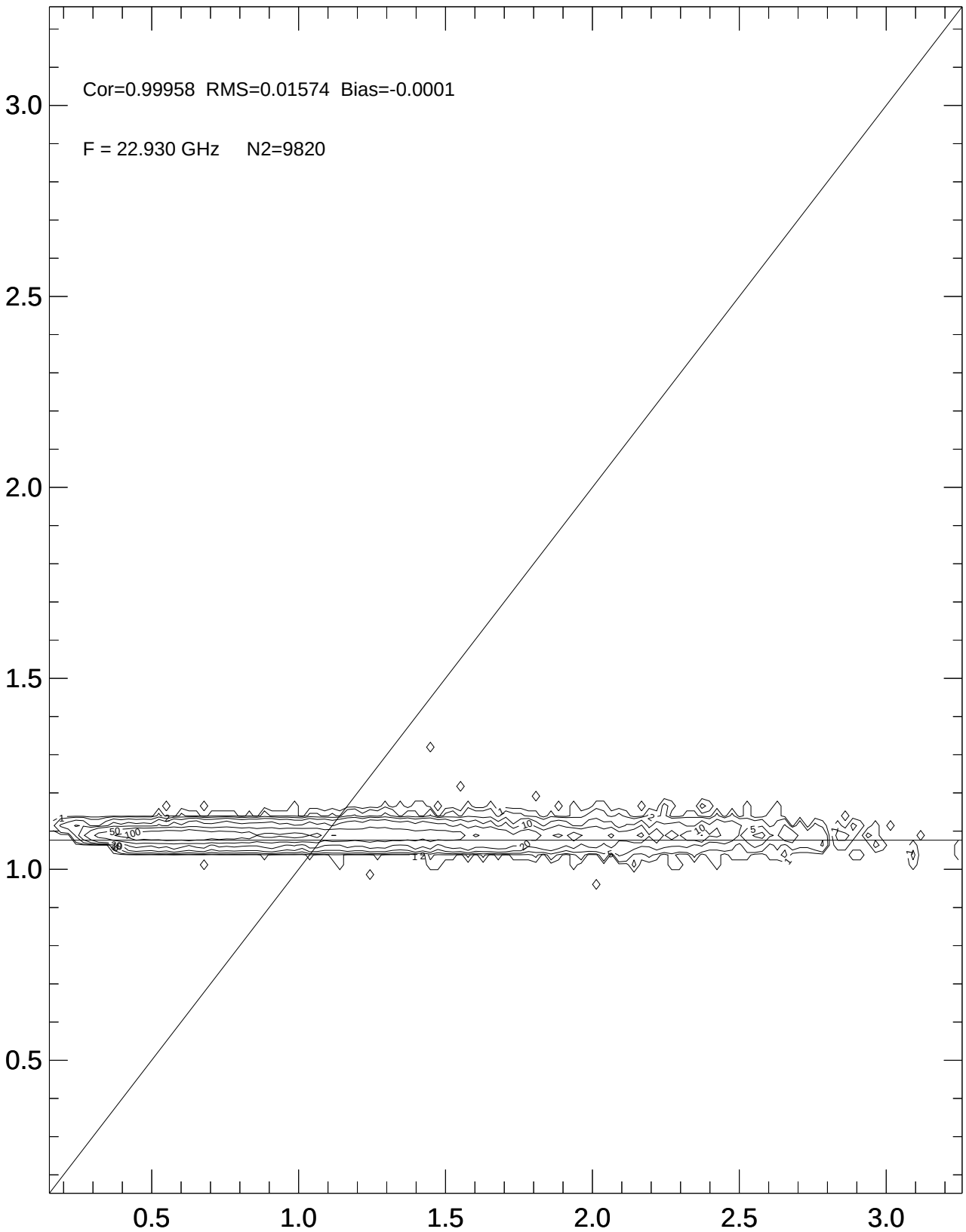

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0

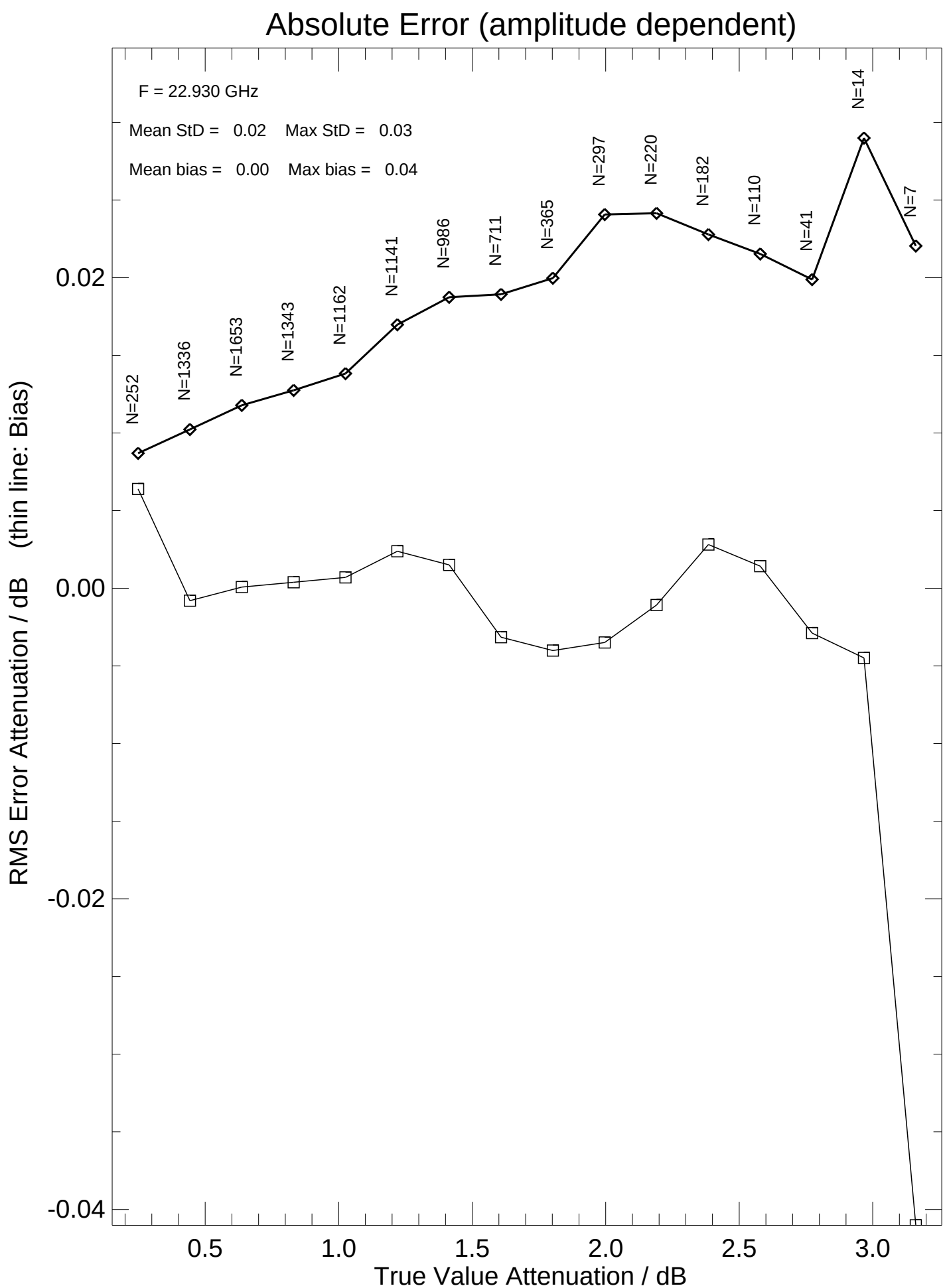

Cor=0.99955 RMS=0.01654 Bias=-0.0002
F = 22.850 GHz N2=9820
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0

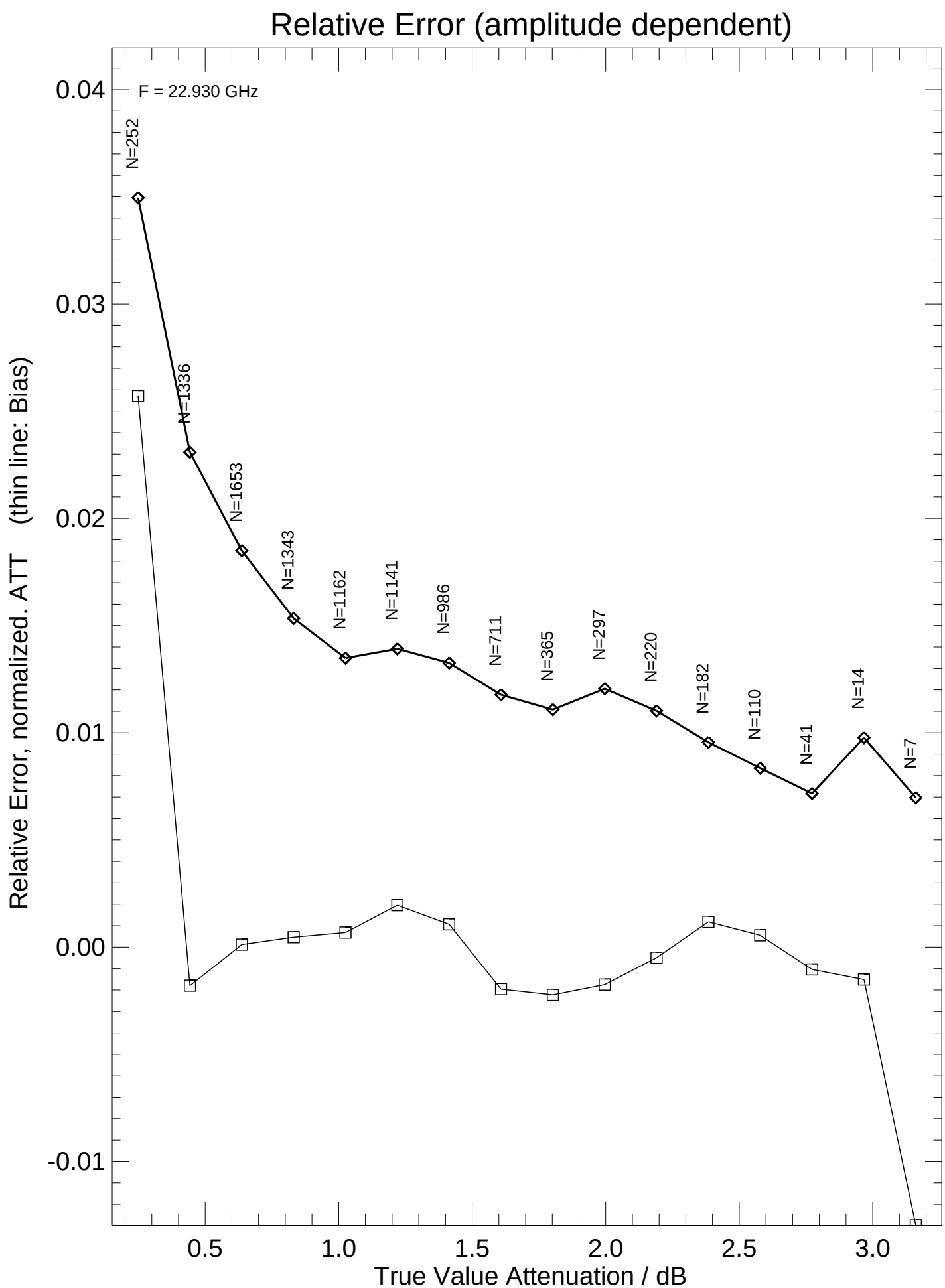

Absolute Error (amplitude dependent)
F = 22.850 GHz
Mean StD = 0.02 Max StD = 0.03
Mean bias = 0.00 Max bias = 0.04
N=244
N=1326
N=1648
N=1333
N=1161
N=1127
N=983
N=739
N=380
N=302
N=221
N=181
N=109
N=45
N=14
N=7
0.02
0.00
-0.02
RMS Error Attenuation / dB (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
3.0
True Value Attenuation / dB

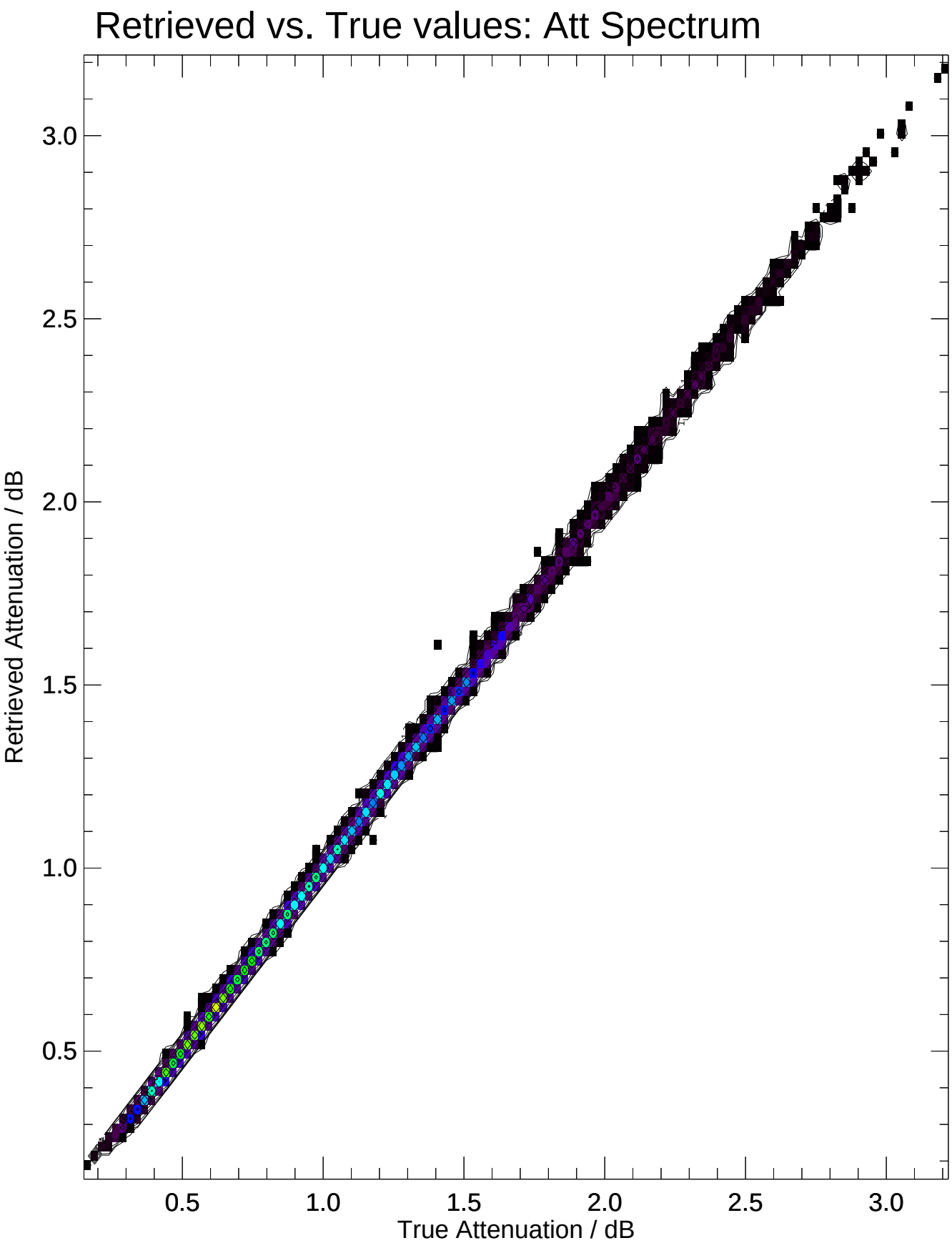

Relative Error (amplitude dependent)
F = 22.850 GHz
N=244
N=1326
N=1648
N=1333
N=1161
N=1127
N=983
N=739
N=380
N=302
N=221
N=181
N=109
N=45
N=14
N=7
0.04
0.03
0.02
0.01
0.00
-0.01
0.5
1.0
1.5
2.0
2.5
3.0
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

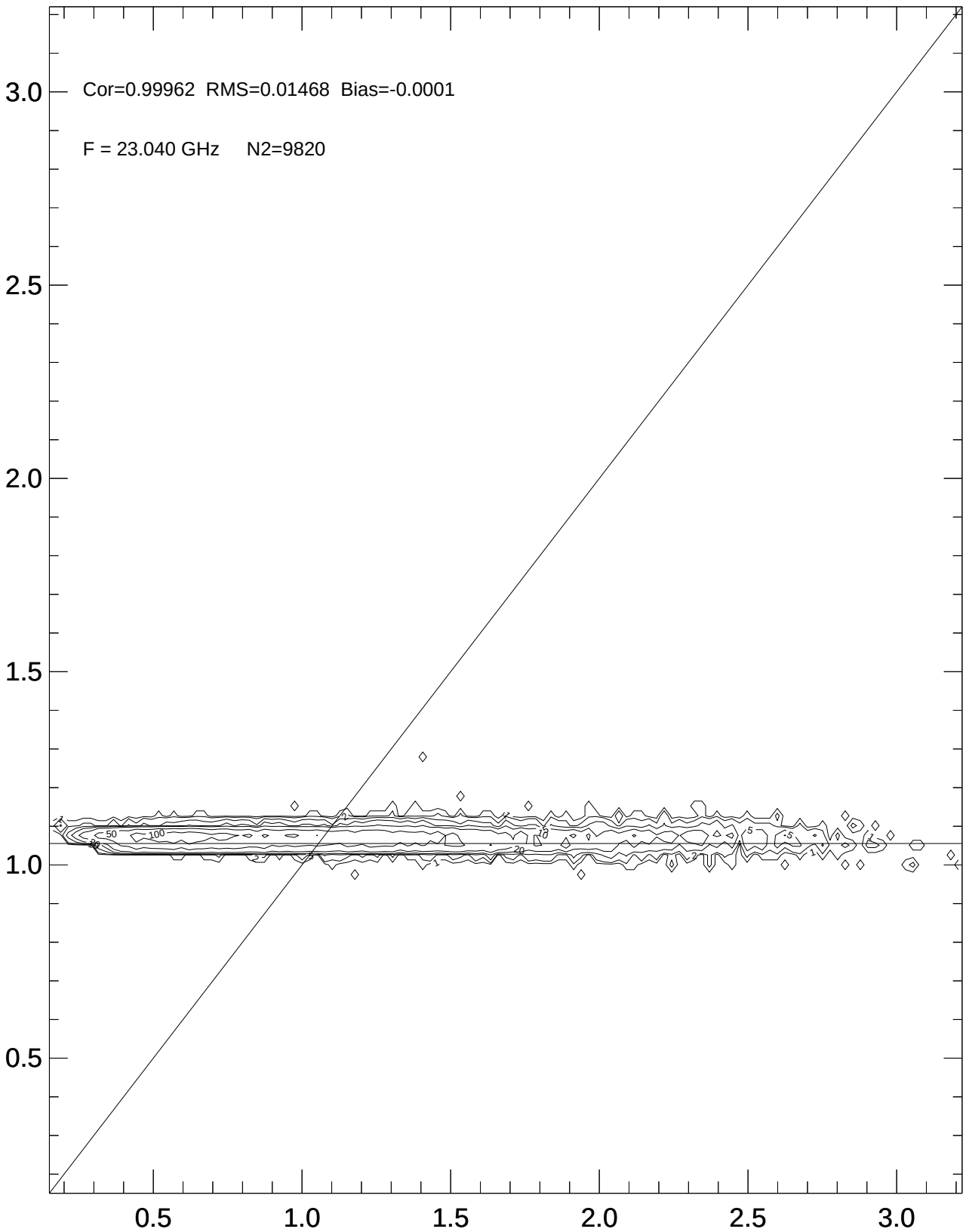

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0

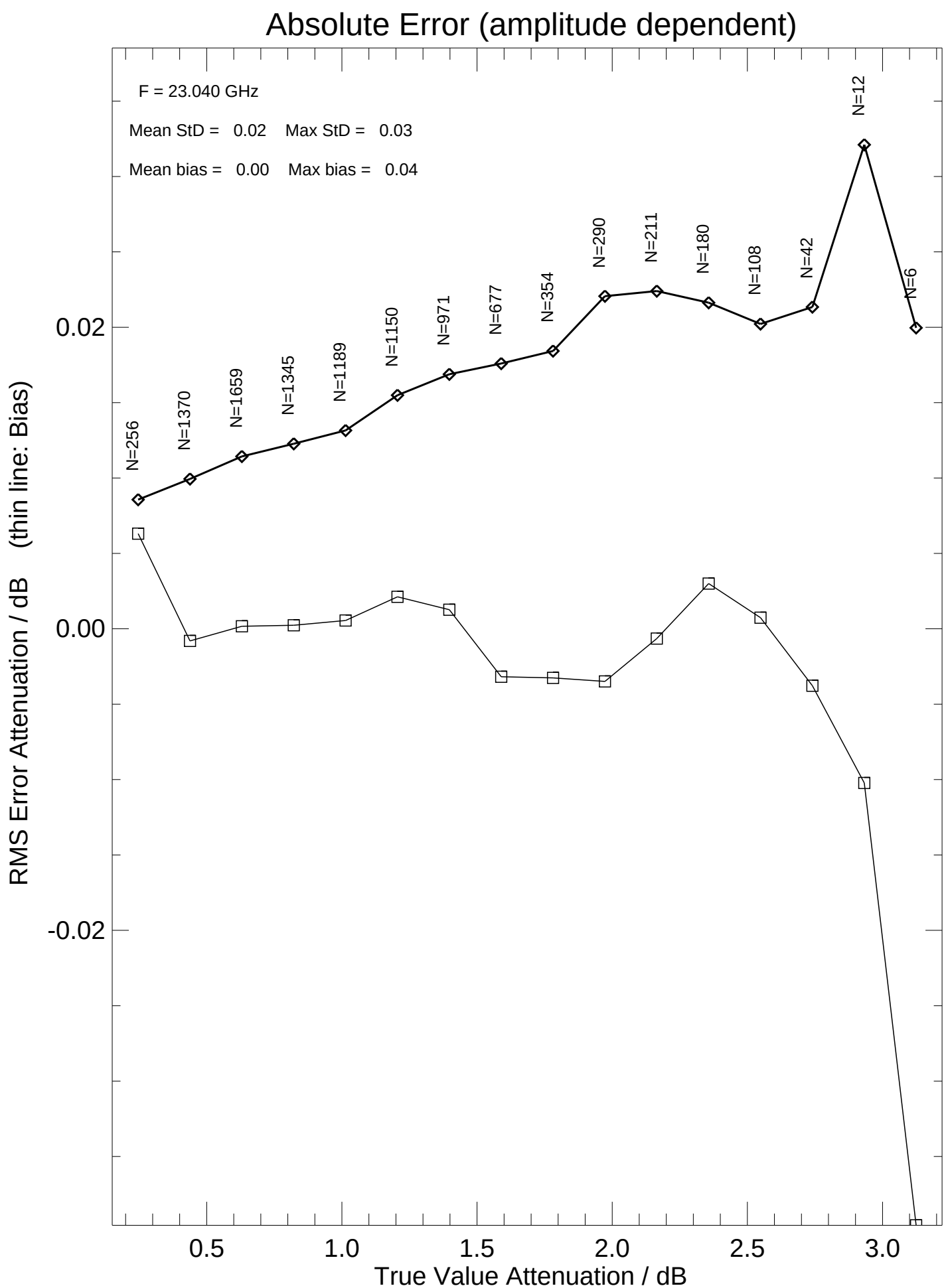

Cor=0.99958 RMS=0.01574 Bias=-0.0001
F = 22.930 GHz N2=9820
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0

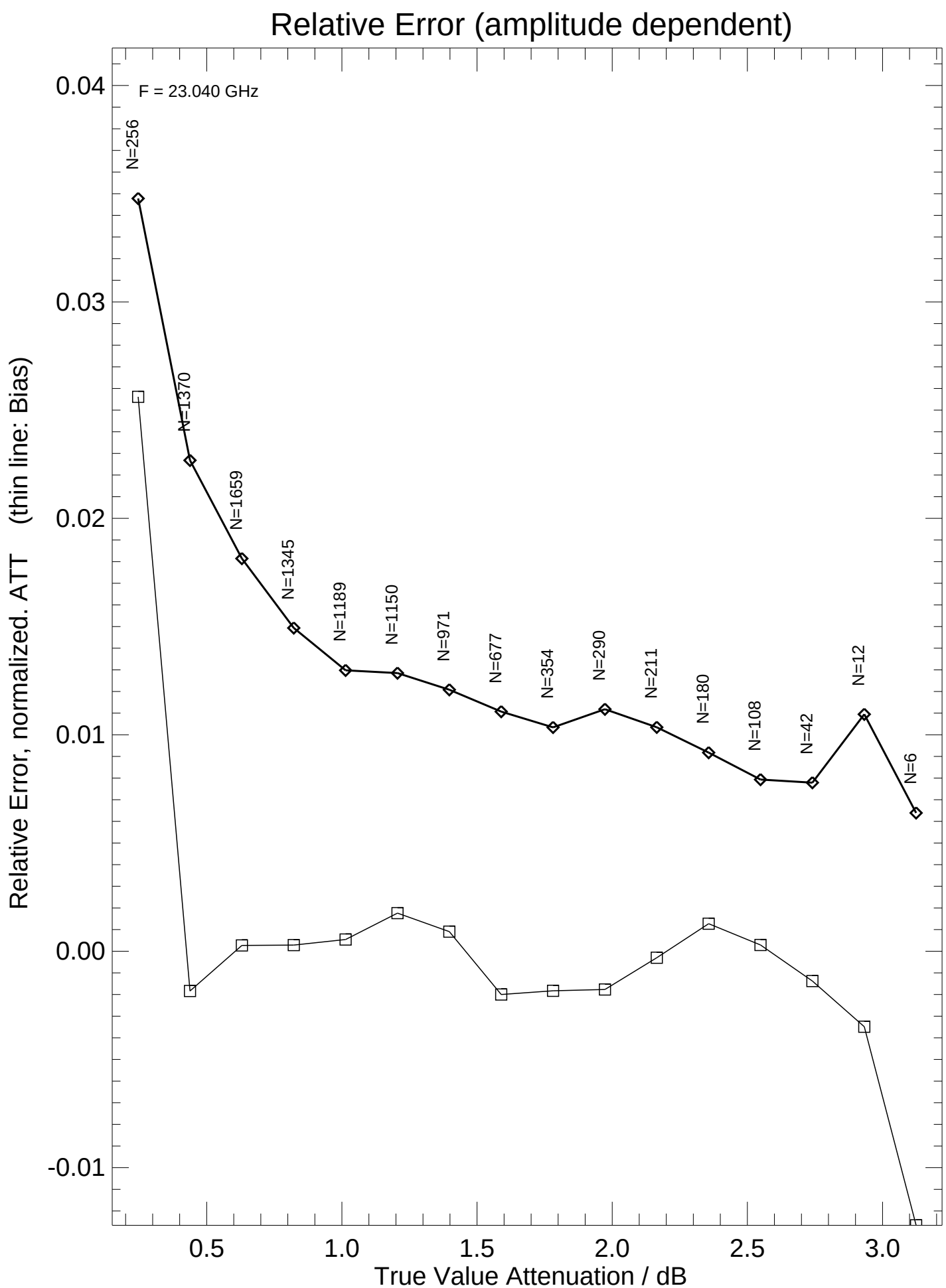

Absolute Error (amplitude dependent)
F = 22.930 GHz
Mean StD = 0.02 Max StD = 0.03
Mean bias = 0.00 Max bias = 0.04
N=252
N=1336
N=1653
N=1343
N=1162
N=1141
N=986
N=711
N=365
N=297
N=220
N=182
N=110
N=41
N=14
N=7
0.02
0.00
-0.02
-0.04
RMS Error Attenuation / dB (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
3.0
True Value Attenuation / dB

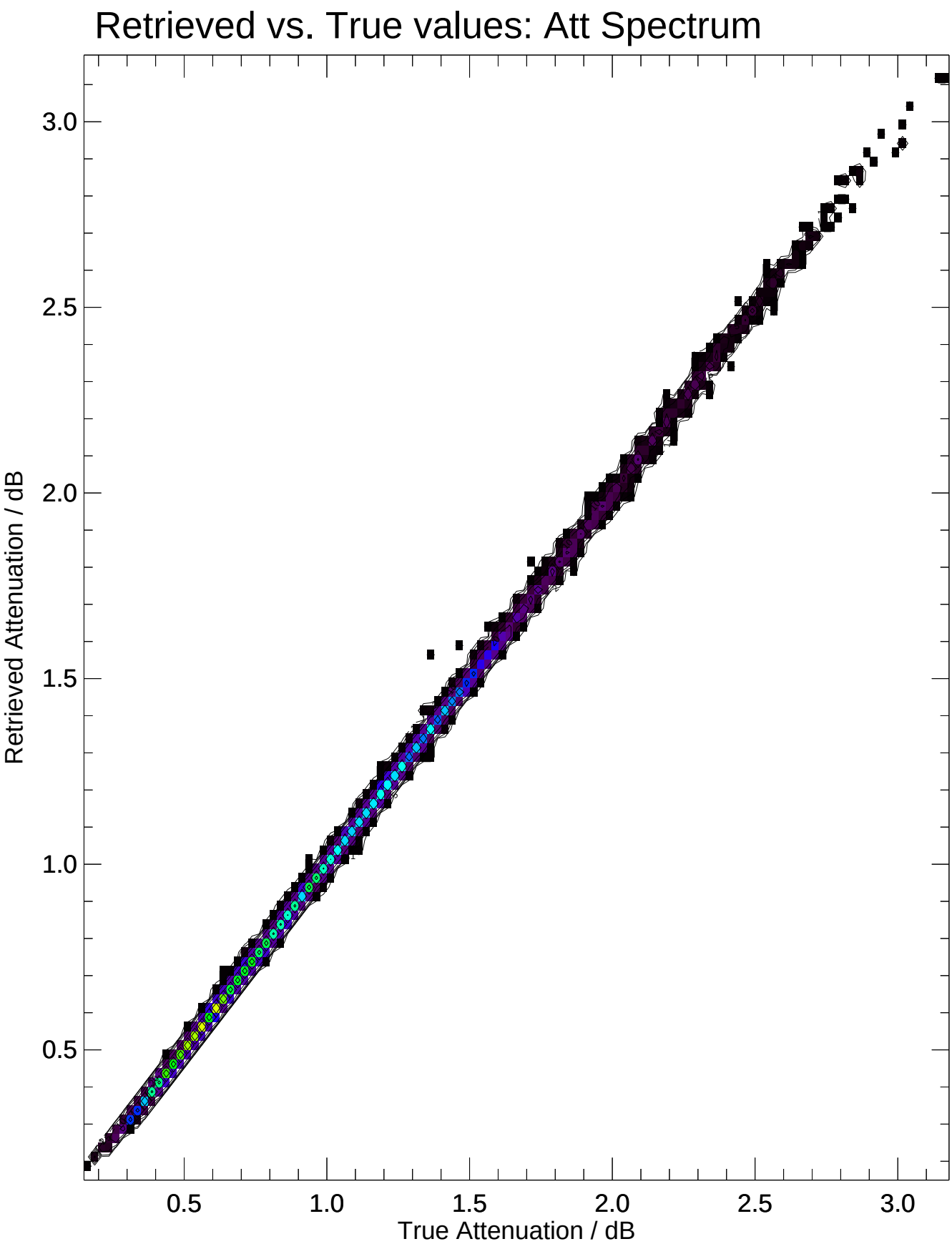

Relative Error (amplitude dependent)
F = 22.930 GHz
N=252
N=1336
N=1653
N=1343
N=1162
N=1141
N=986
N=711
N=365
N=297
N=220
N=182
N=110
N=41
N=14
N=7
0.04
0.03
0.02
0.01
0.00
-0.01
0.5
1.0
1.5
2.0
2.5
3.0
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

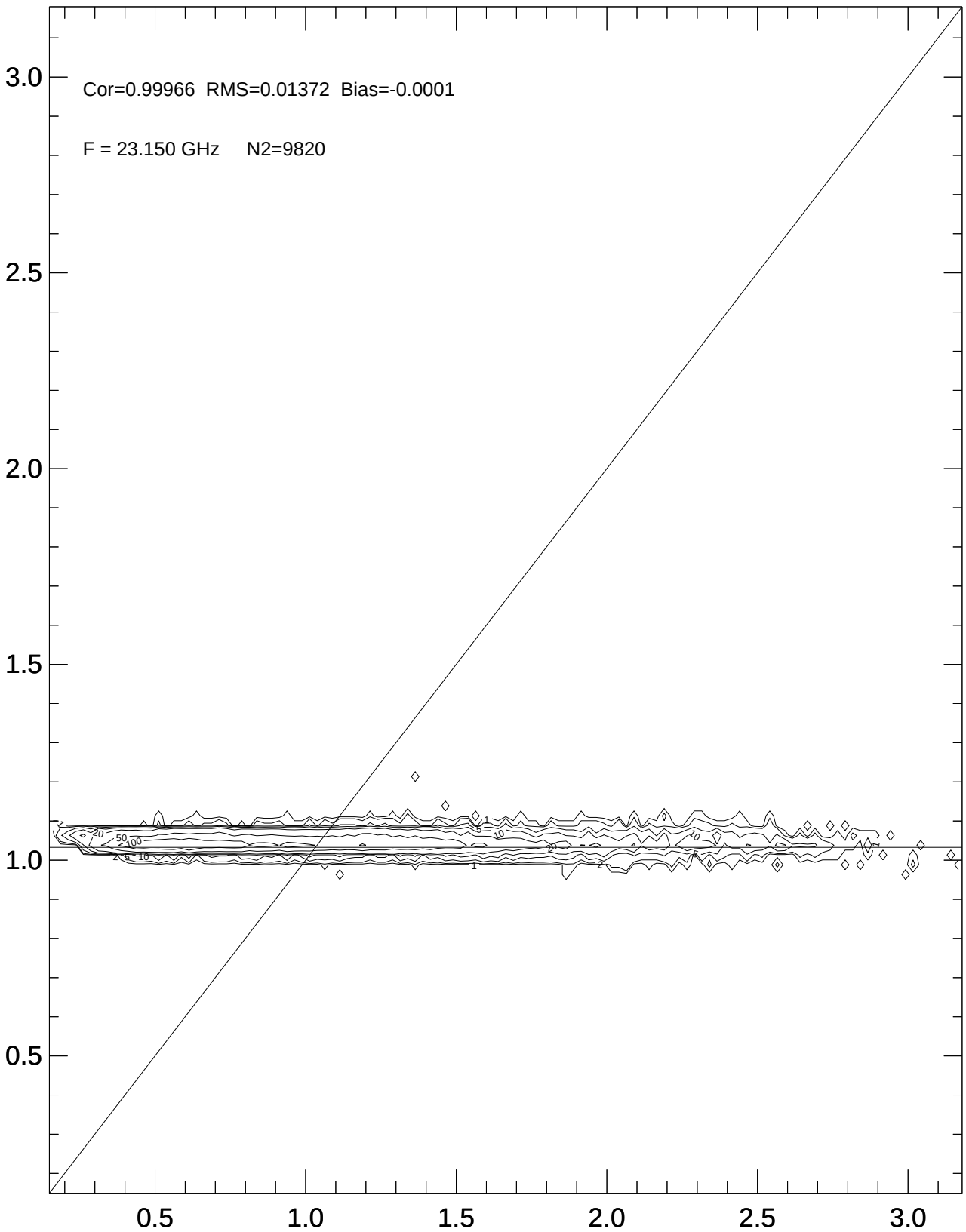

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0

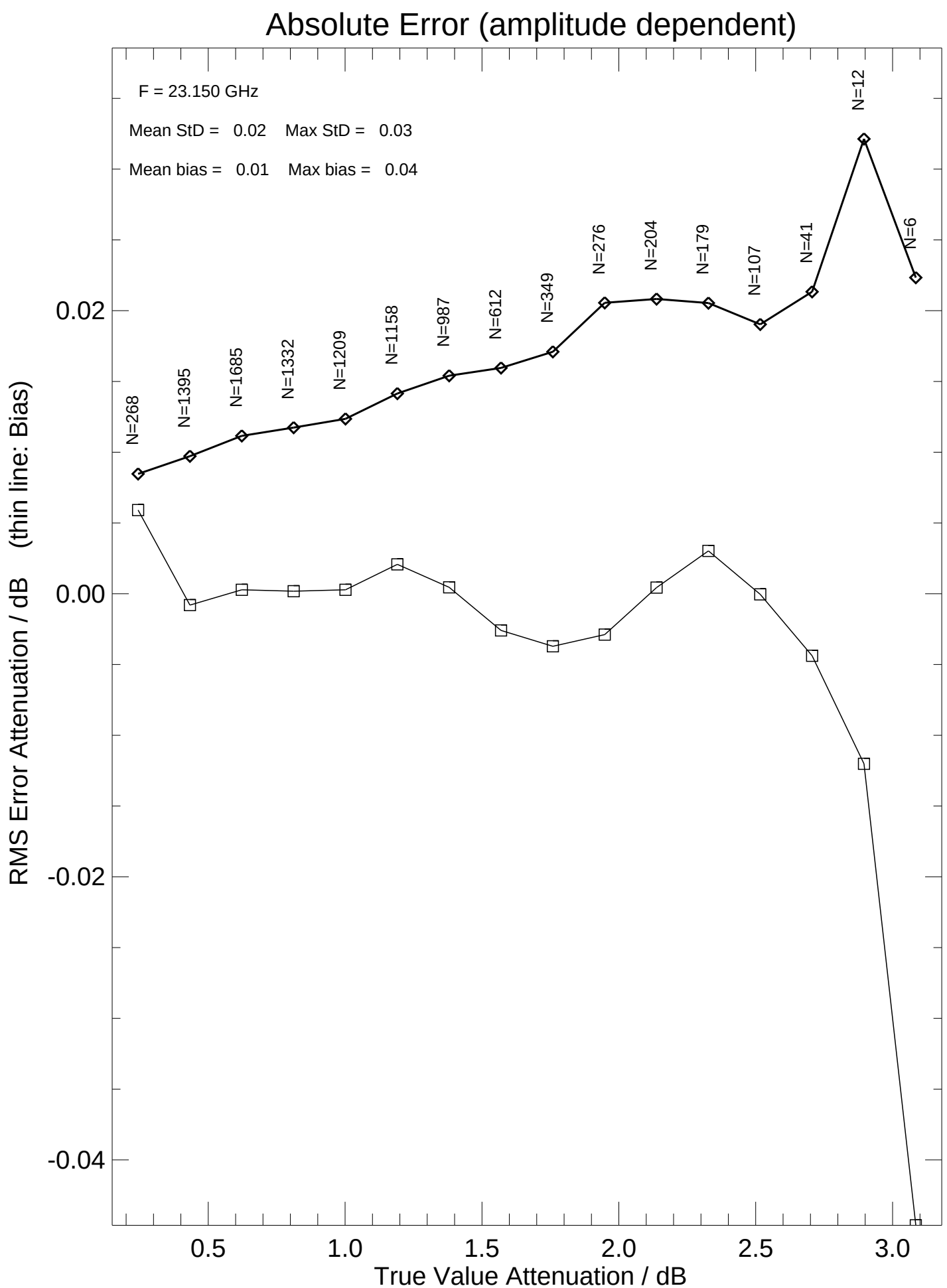

Cor=0.99962 RMS=0.01468 Bias=-0.0001
F = 23.040 GHz N2=9820
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0

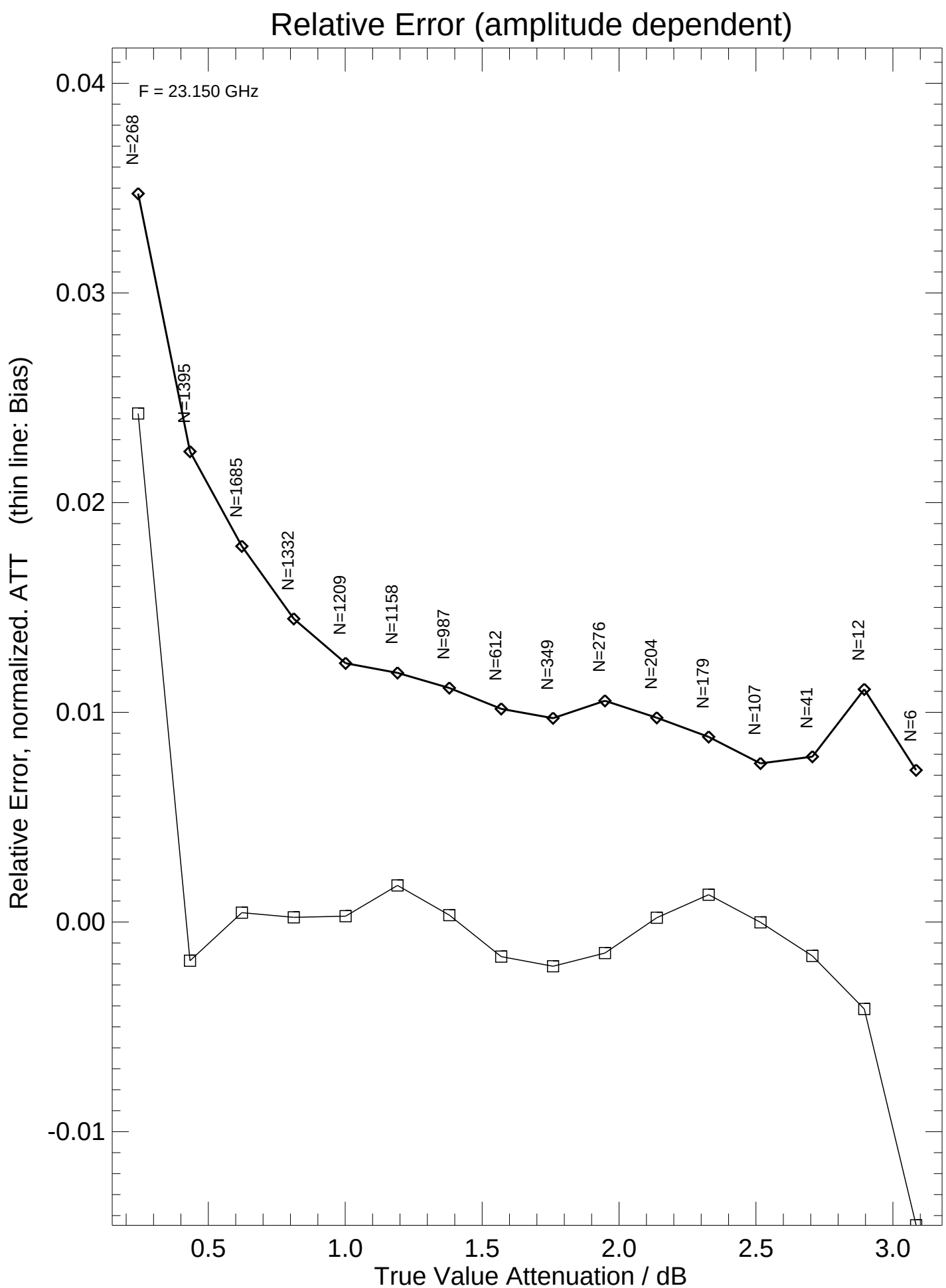

Absolute Error (amplitude dependent)
F = 23.040 GHz
Mean StD = 0.02 Max StD = 0.03
Mean bias = 0.00 Max bias = 0.04
N=256
N=1370
N=1659
N=1345
N=1189
N=1150
N=971
N=677
N=354
N=290
N=211
N=180
N=108
N=42
N=12
N=6
0.02
0.00
-0.02
RMS Error Attenuation / dB (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
3.0
True Value Attenuation / dB

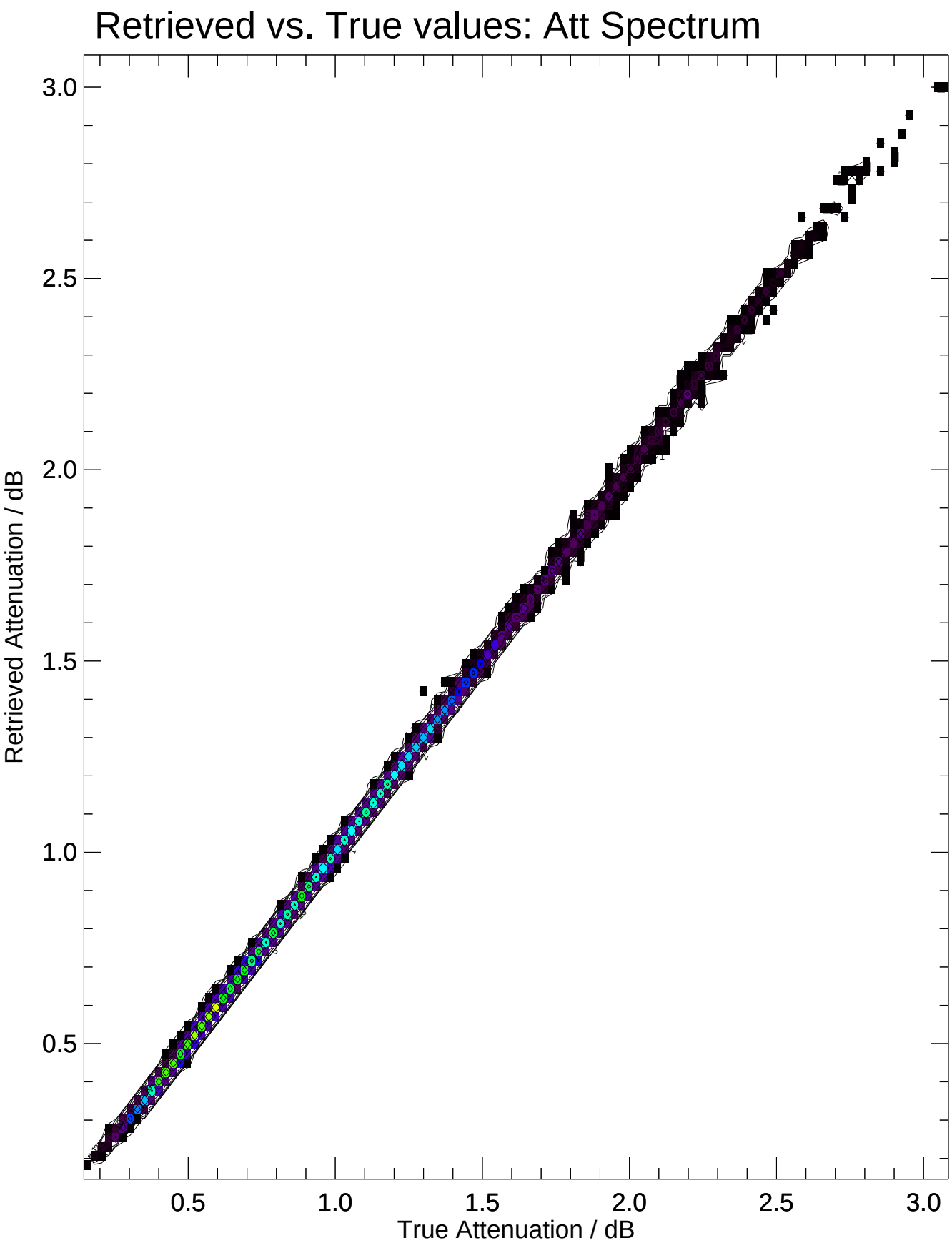

Relative Error (amplitude dependent)
F = 23.040 GHz
N=256
N=1370
N=1659
N=1345
N=1189
N=1150
N=971
N=677
N=354
N=290
N=211
N=180
N=108
N=42
N=12
N=6
0.04
0.03
0.02
0.01
0.00
-0.01
0.5
1.0
1.5
2.0
2.5
3.0
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

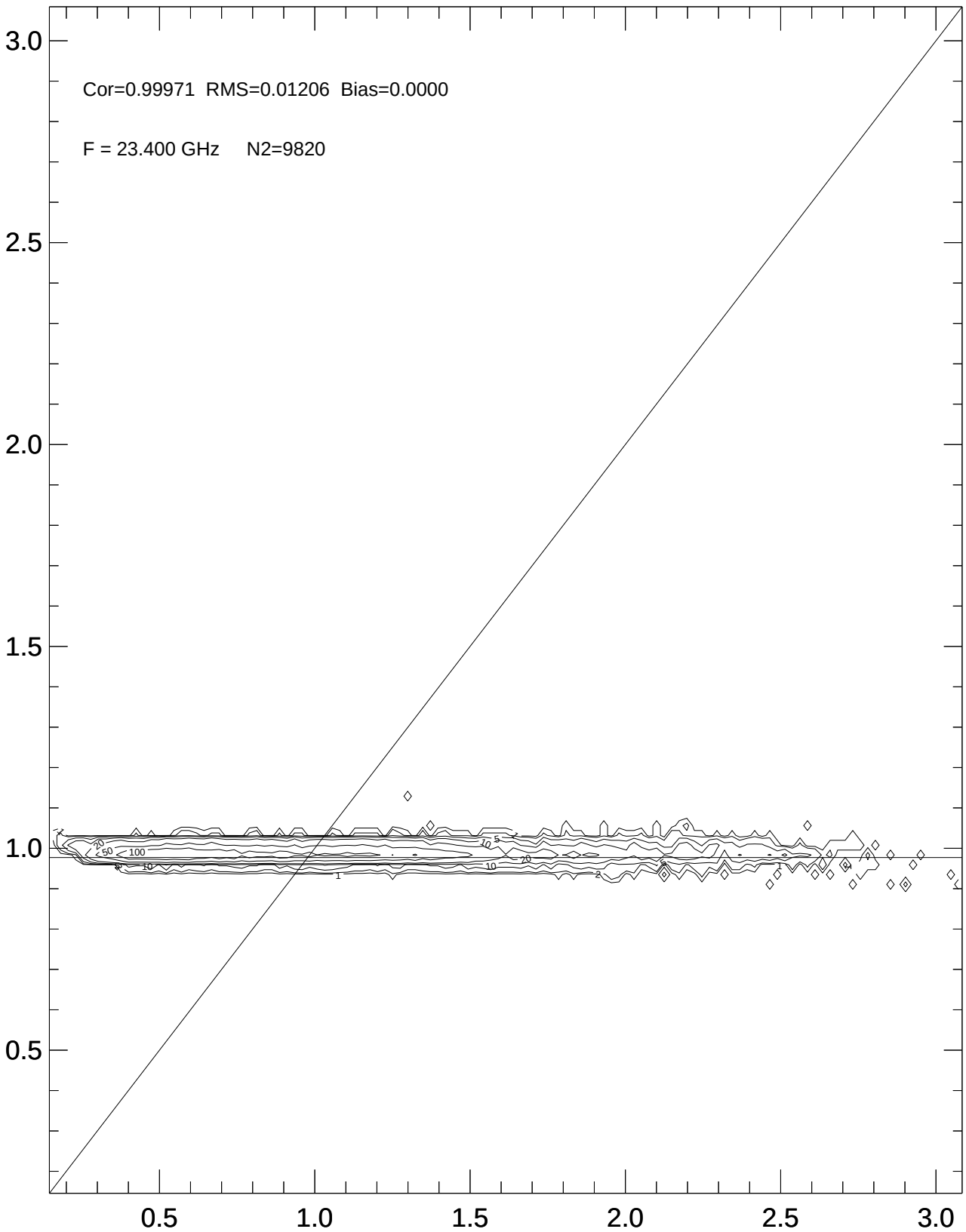

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0

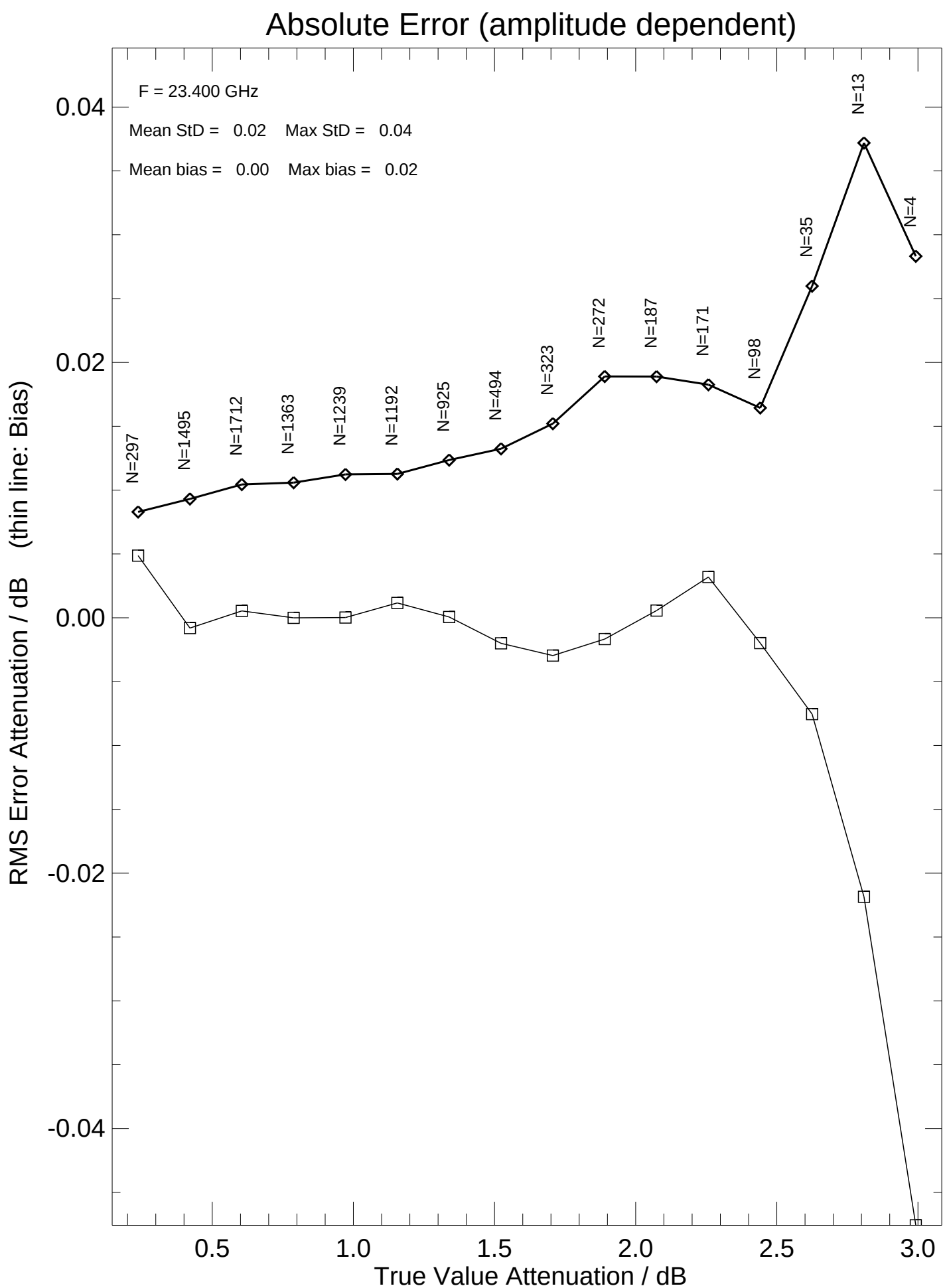

Cor=0.99966 RMS=0.01372 Bias=-0.0001
F = 23.150 GHz N2=9820
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0

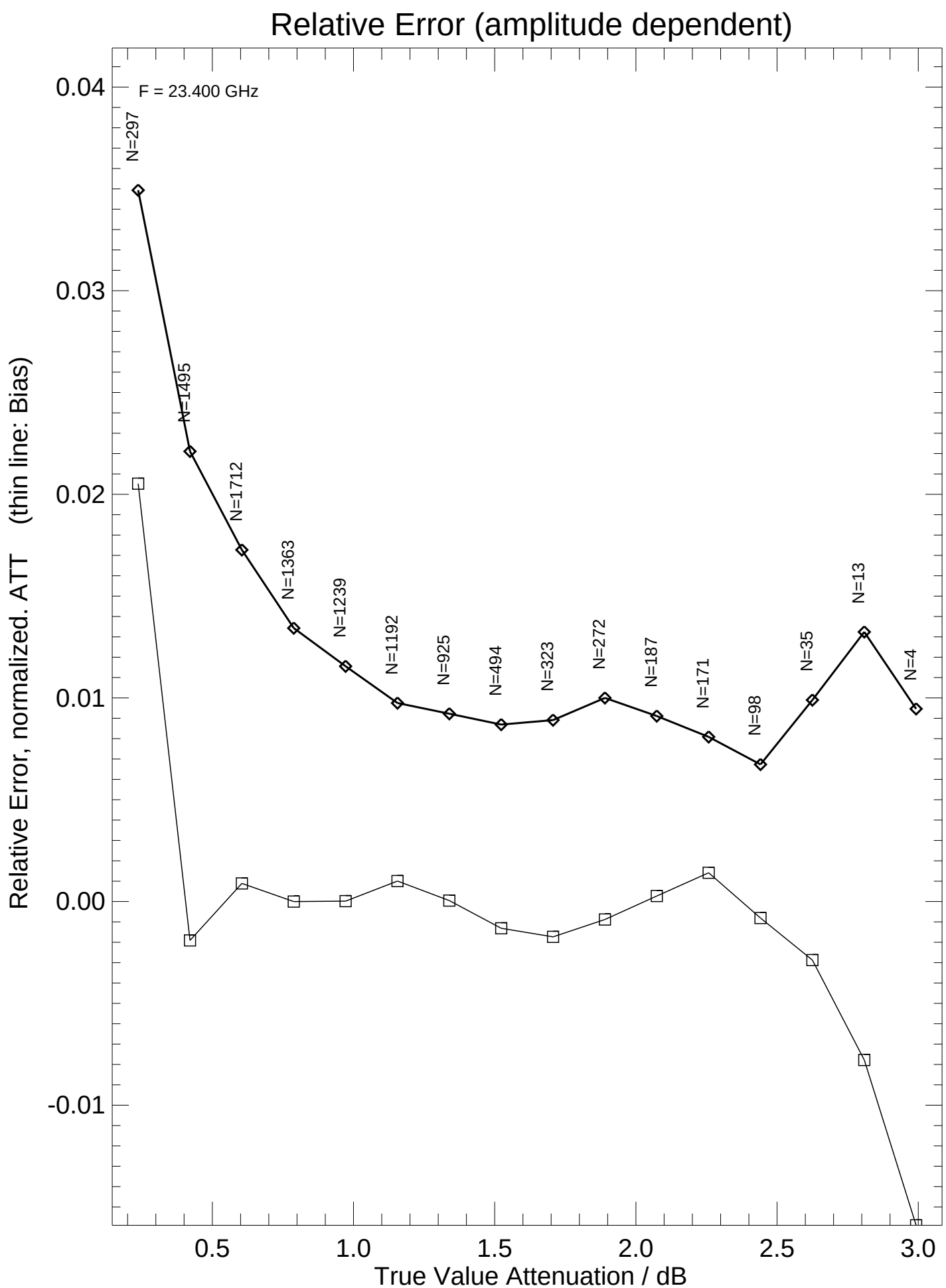

Absolute Error (amplitude dependent)
F = 23.150 GHz
Mean StD = 0.02 Max StD = 0.03
Mean bias = 0.01 Max bias = 0.04
N=268
N=1395
N=1685
N=1332
N=1209
N=1158
N=987
N=612
N=349
N=276
N=204
N=179
N=107
N=41
N=12
N=6
0.02
0.00
-0.02
-0.04
0.5
1.0
1.5
2.0
2.5
3.0
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

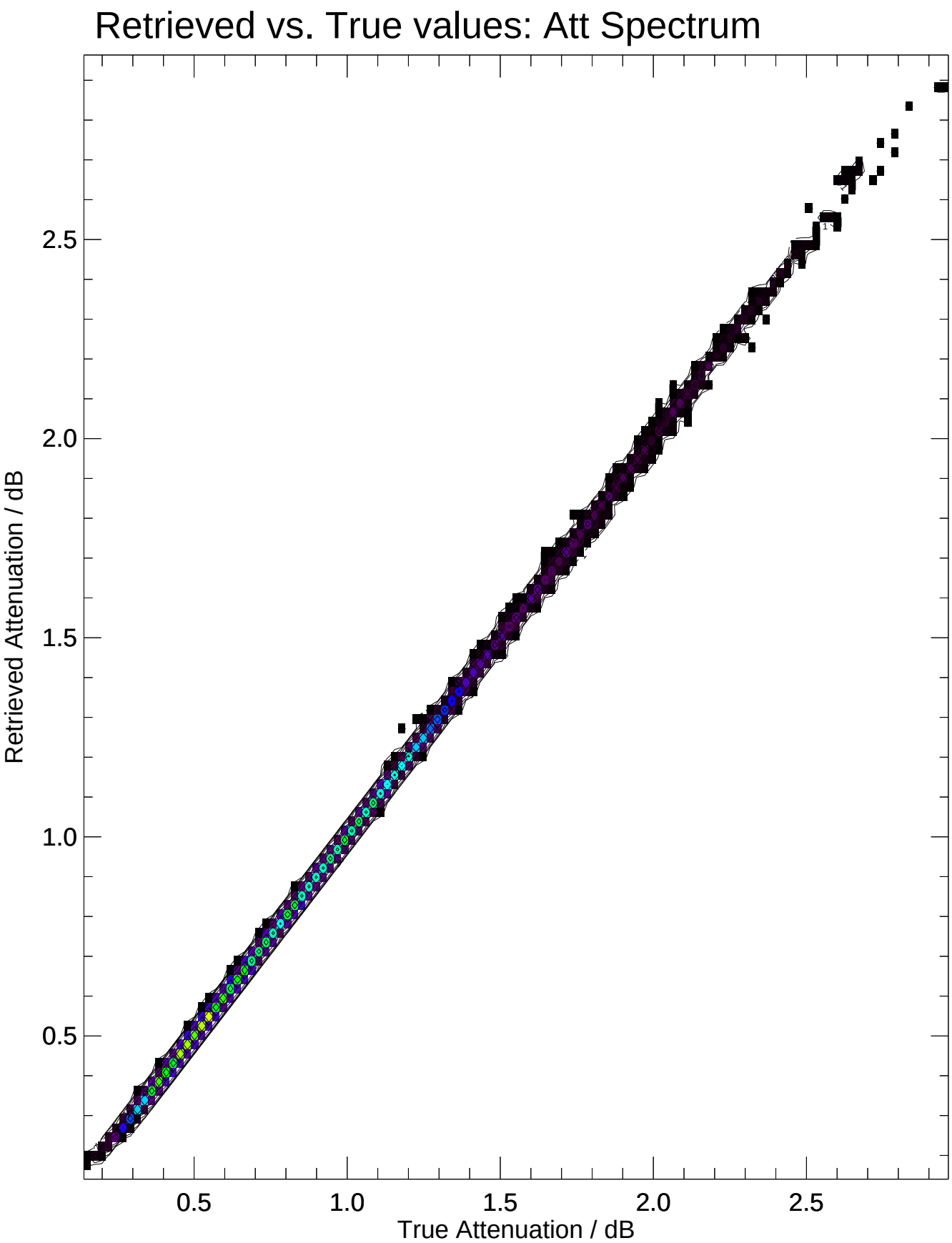

Relative Error (amplitude dependent)
F = 23.150 GHz
N=268
N=1395
N=1685
N=1332
N=1209
N=1158
N=987
N=612
N=349
N=276
N=204
N=179
N=107
N=41
N=12
N=6
0.04
0.03
0.02
0.01
0.00
-0.01
0.5
1.0
1.5
2.0
2.5
3.0
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

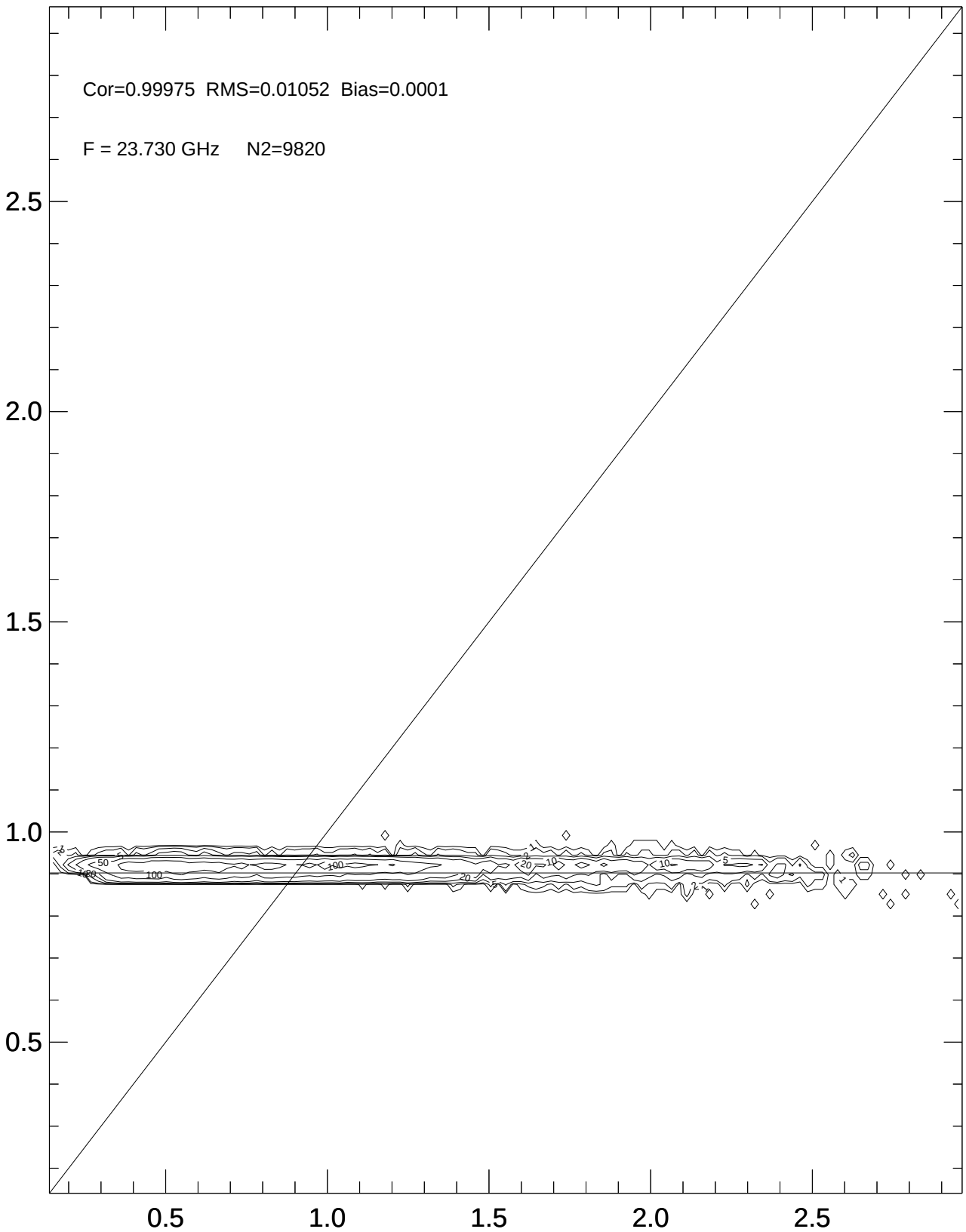

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0

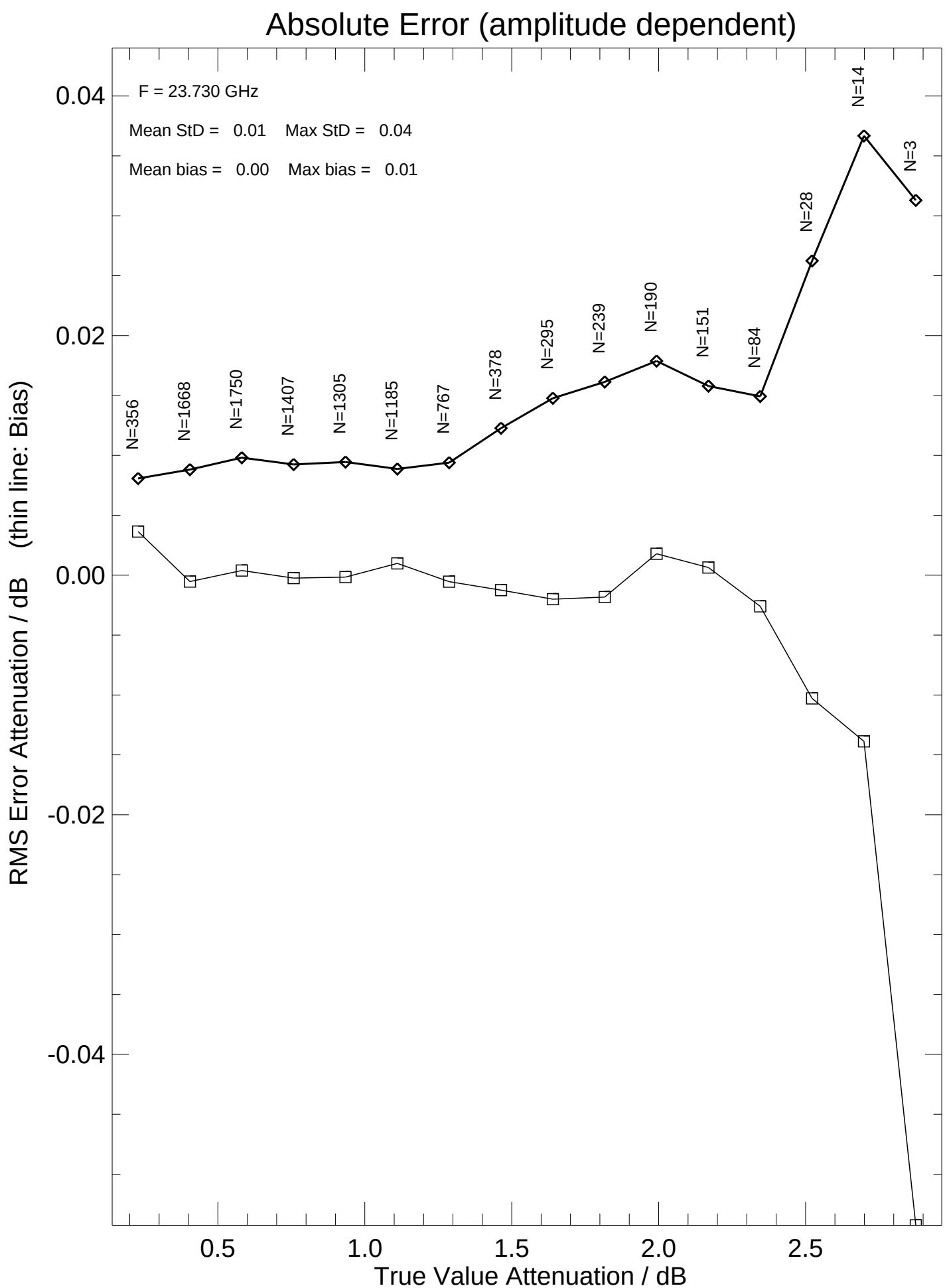

Cor=0.99971 RMS=0.01206 Bias=0.0000
F = 23.400 GHz N2=9820
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0

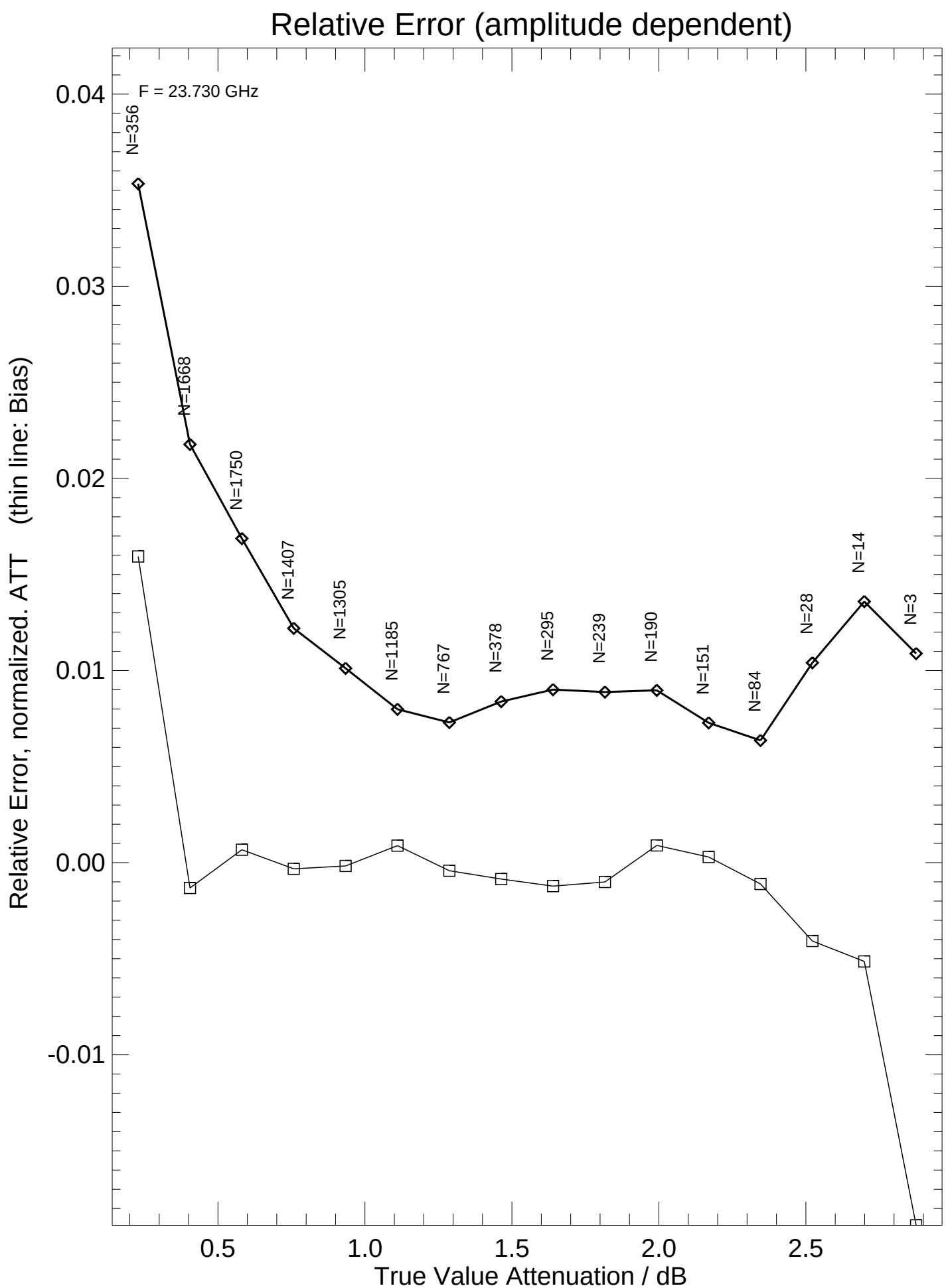

Absolute Error (amplitude dependent)
F = 23.400 GHz
Mean StD = 0.02 Max StD = 0.04
Mean bias = 0.00 Max bias = 0.02
N=297
N=1495
N=1712
N=1363
N=1239
N=1192
N=925
N=494
N=323
N=272
N=187
N=171
N=98
N=35
N=13
N=4
0.04
0.02
0.00
-0.02
-0.04
0.5
1.0
1.5
2.0
2.5
3.0
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

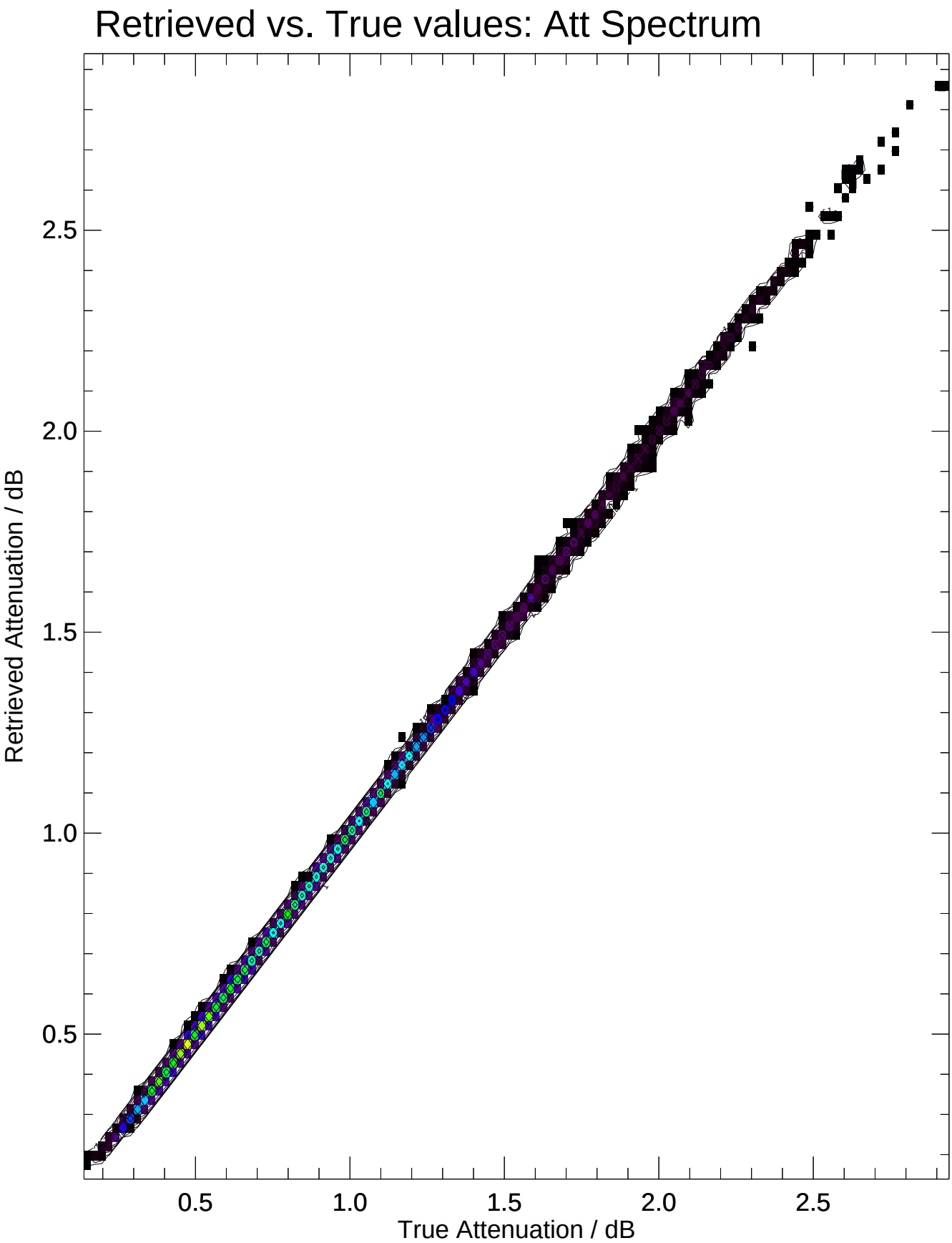

Relative Error (amplitude dependent)
F = 23.400 GHz
N=297
N=1495
N=1712
N=1363
N=1239
N=1192
N=925
N=494
N=323
N=272
N=187
N=171
N=98
N=35
N=13
N=4
0.04
0.03
0.02
0.01
0.00
-0.01
0.5
1.0
1.5
2.0
2.5
3.0
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

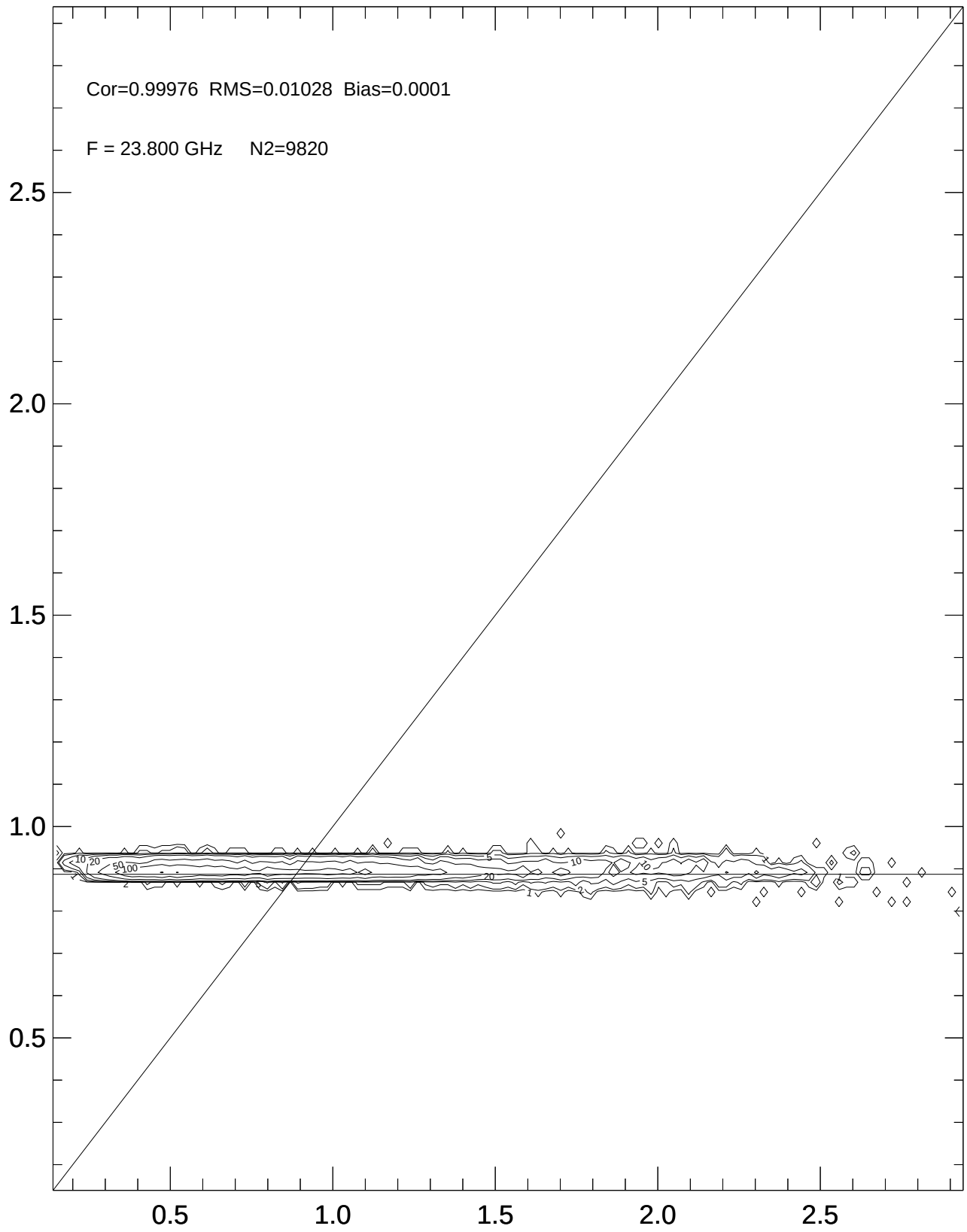

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5

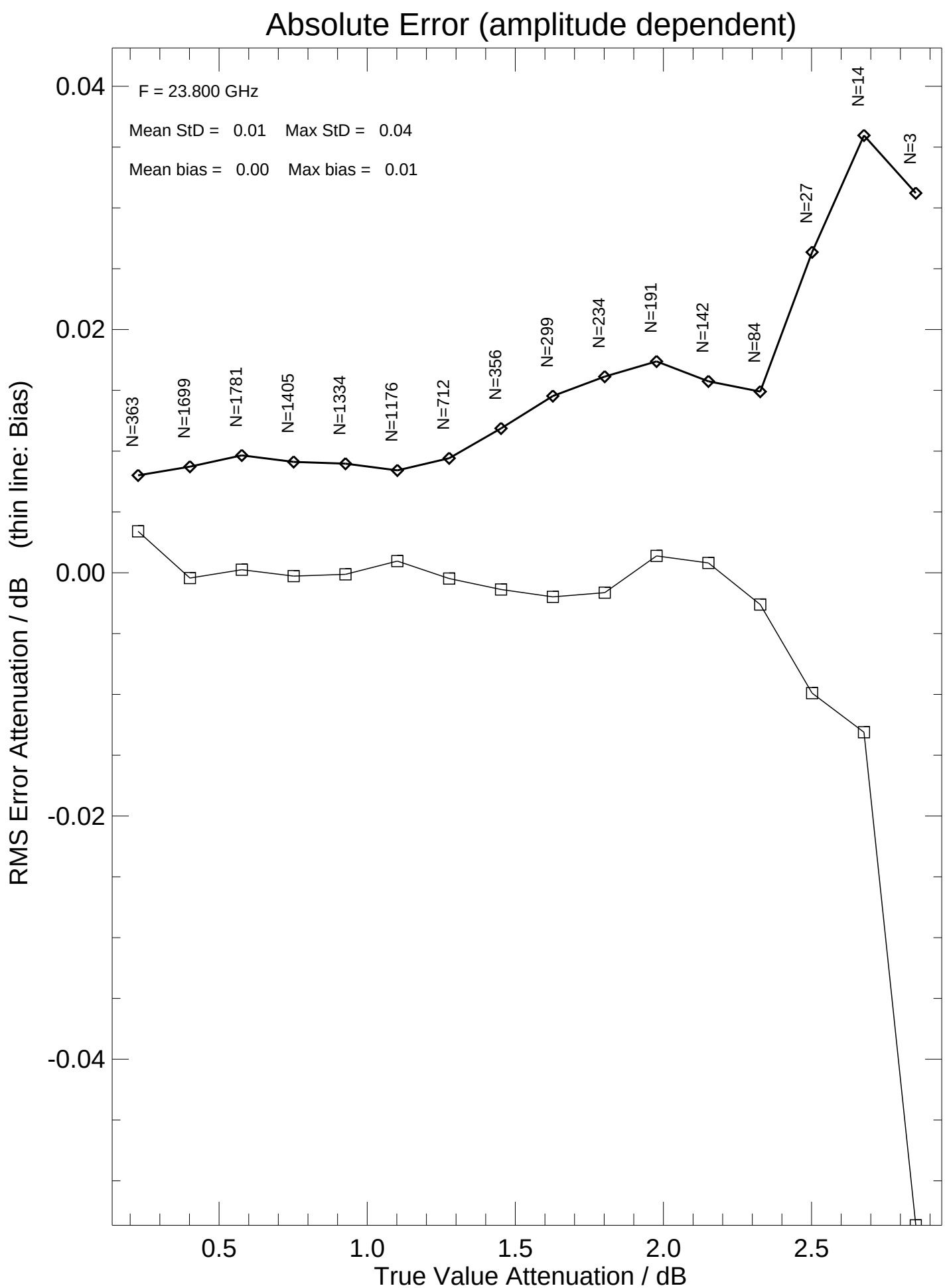

Cor=0.99975 RMS=0.01052 Bias=0.0001
F = 23.730 GHz N2=9820
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5

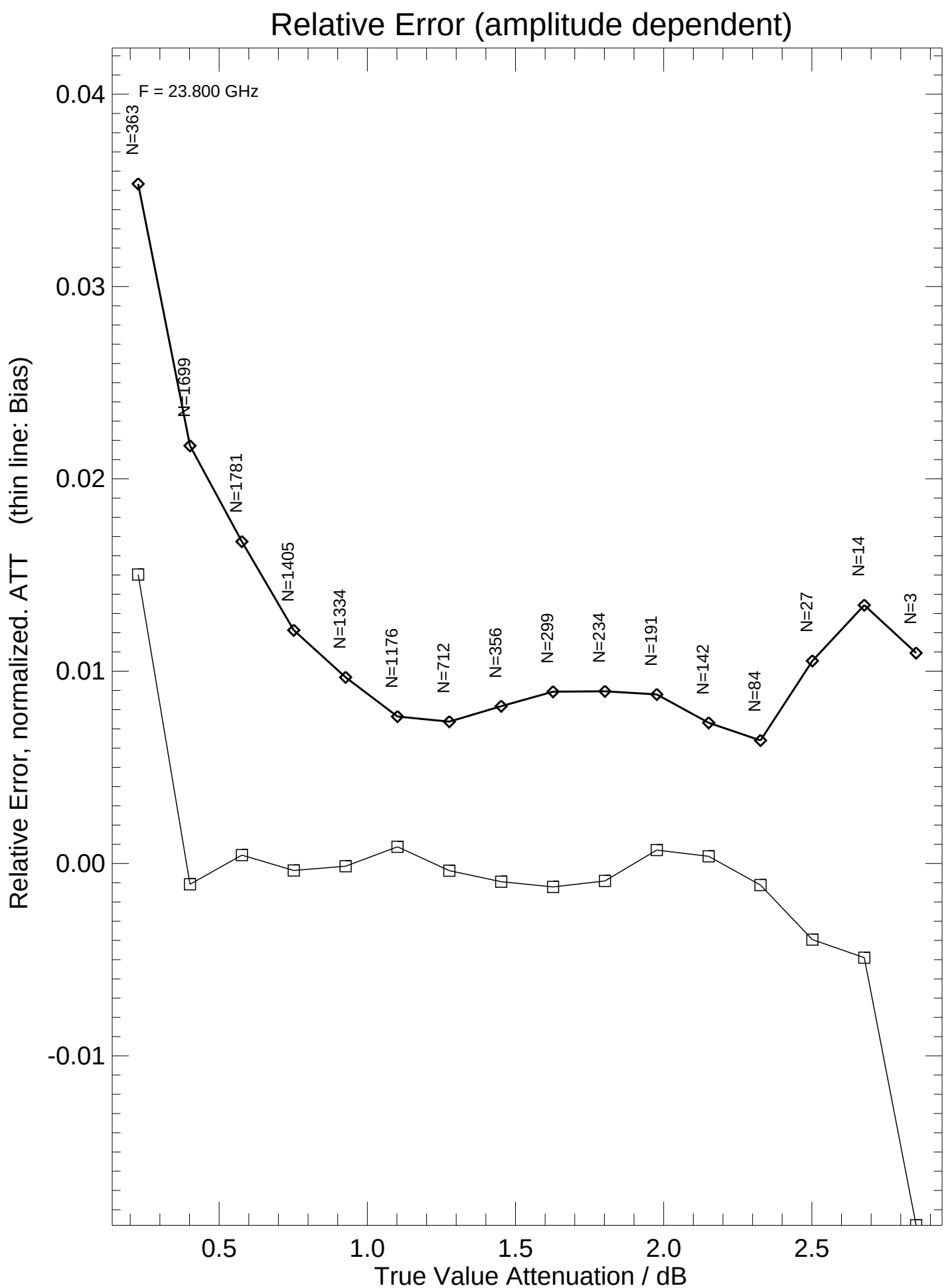

Absolute Error (amplitude dependent)
F = 23.730 GHz
Mean StD = 0.01 Max StD = 0.04
Mean bias = 0.00 Max bias = 0.01
N=356
N=1668
N=1750
N=1407
N=1305
N=1185
N=767
N=378
N=295
N=239
N=190
N=151
N=84
N=28
N=14
N=3
0.04
0.02
0.00
-0.02
-0.04
0.5
1.0
1.5
2.0
2.5
True Value Attenuation / dB
RMS Error Attenuation / dB (thin line: Bias)

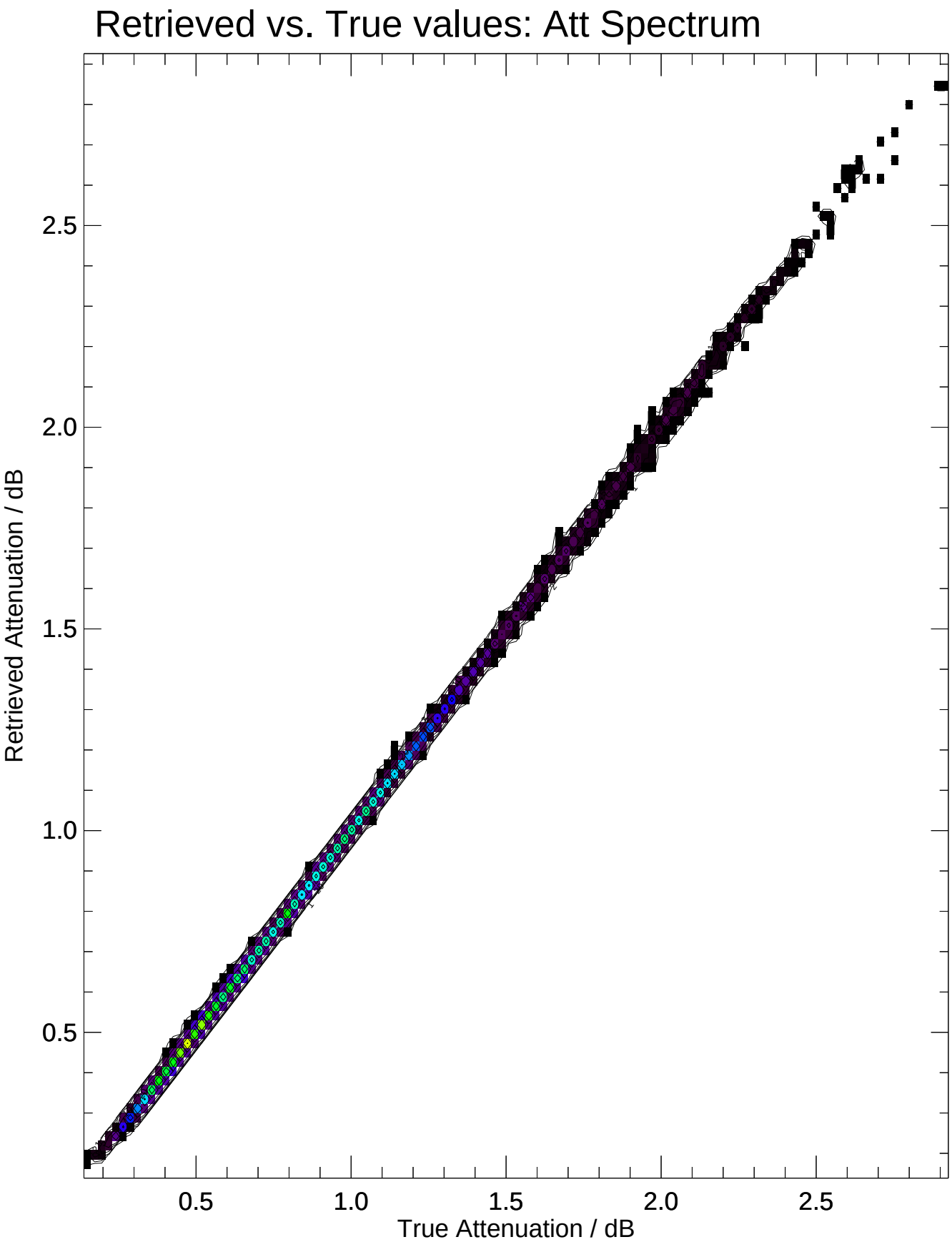

Relative Error (amplitude dependent)
F = 23.730 GHz
N=356
N=1668
N=1750
N=1407
N=1305
N=1185
N=767
N=378
N=295
N=239
N=190
N=151
N=84
N=28
N=14
N=3
0.04
0.03
0.02
0.01
0.00
-0.01
0.5
1.0
1.5
2.0
2.5
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

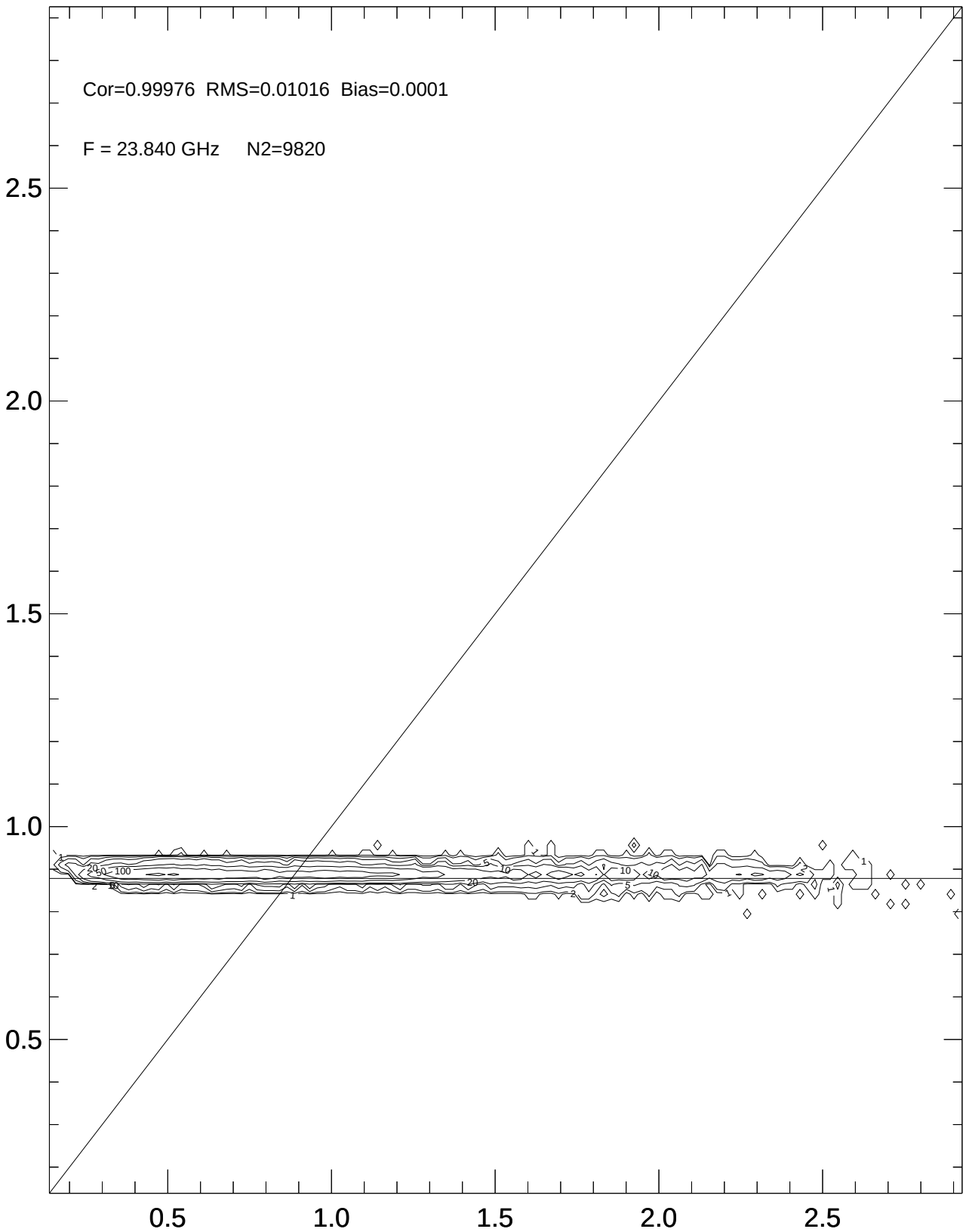

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5

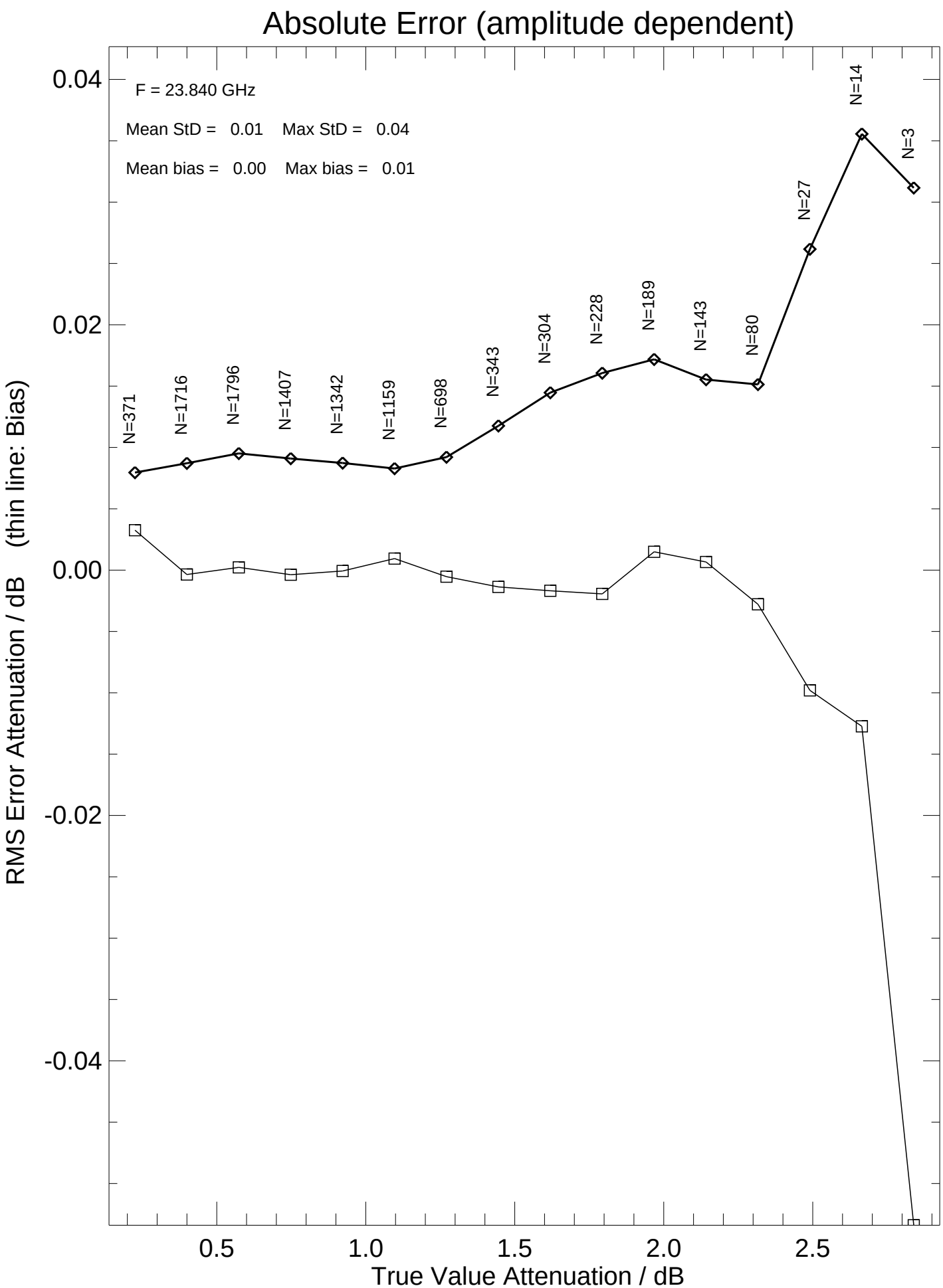

Cor=0.99976 RMS=0.01028 Bias=0.0001
F = 23.800 GHz N2=9820
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5

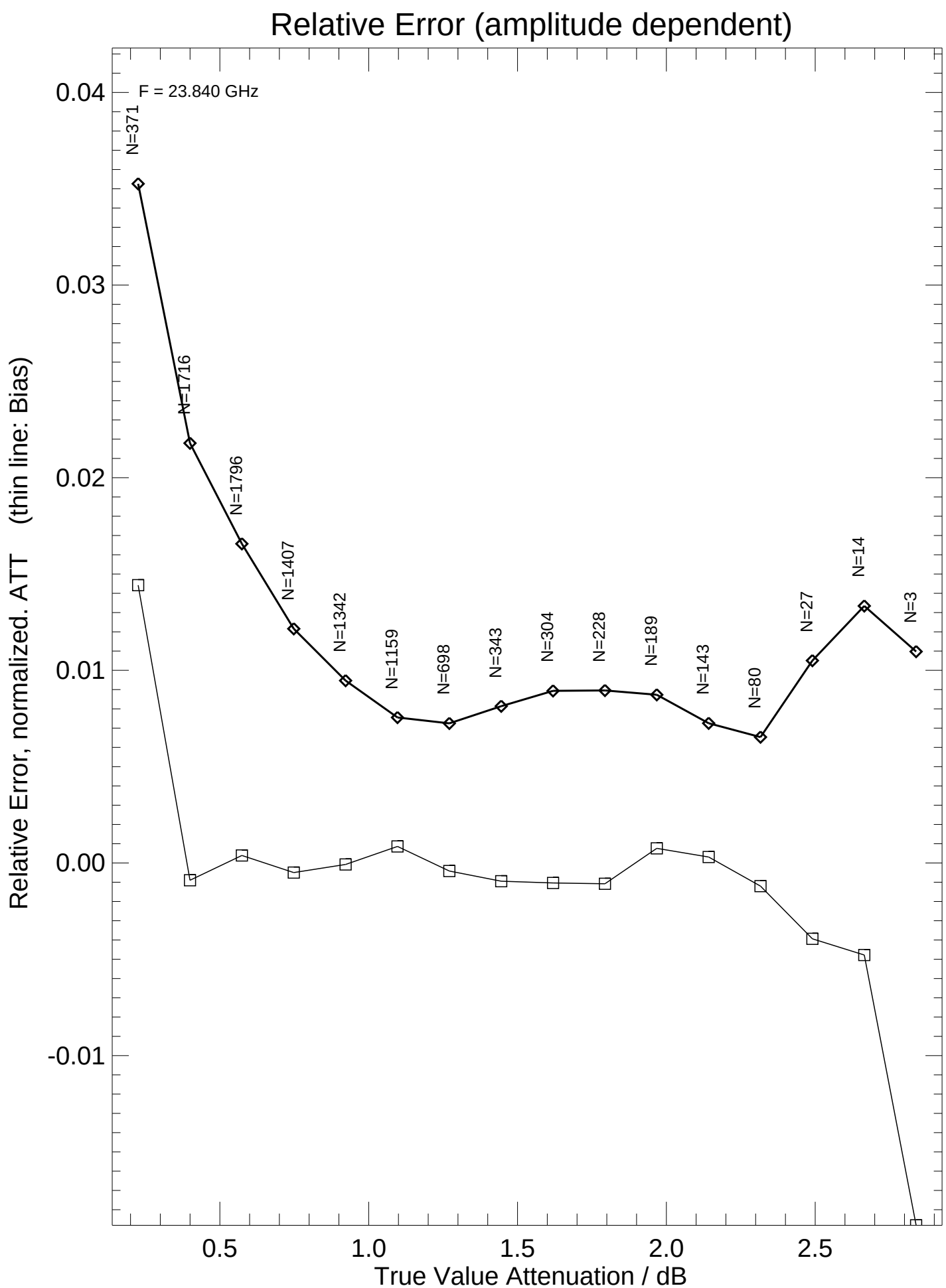

Absolute Error (amplitude dependent)
F = 23.800 GHz
Mean StD = 0.01 Max StD = 0.04
Mean bias = 0.00 Max bias = 0.01
N=363
N=1699
N=1781
N=1405
N=1334
N=1176
N=712
N=356
N=299
N=234
N=191
N=142
N=84
N=27
N=14
N=3
0.04
0.02
0.00
-0.02
-0.04
RMS Error Attenuation / dB (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
True Value Attenuation / dB

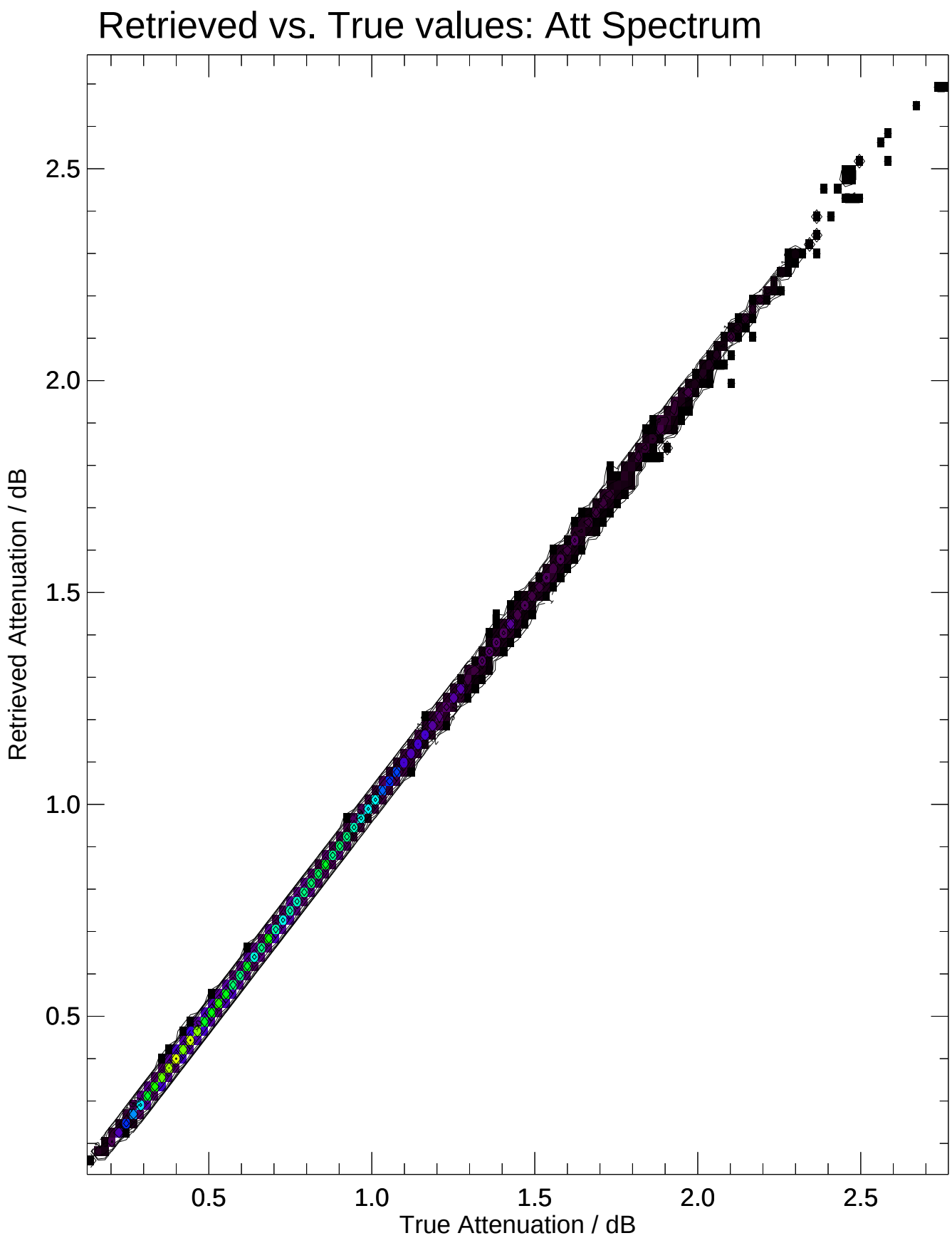

Relative Error (amplitude dependent)
F = 23.800 GHz
N=363
N=1699
N=1781
N=1405
N=1334
N=1176
N=712
N=356
N=299
N=234
N=191
N=142
N=84
N=27
N=14
N=3
0.04
0.03
0.02
0.01
0.00
-0.01
0.5
1.0
1.5
2.0
2.5
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

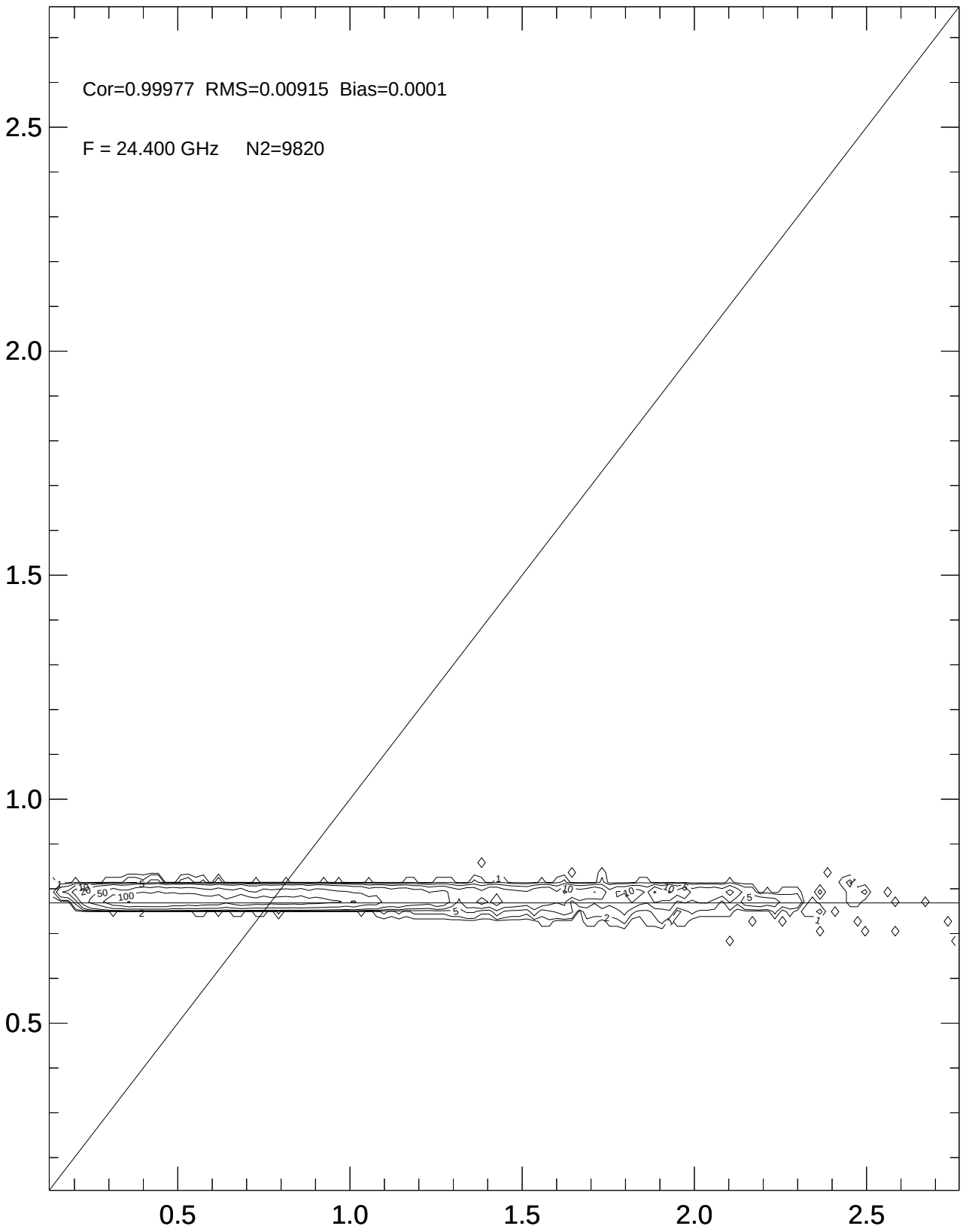

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5

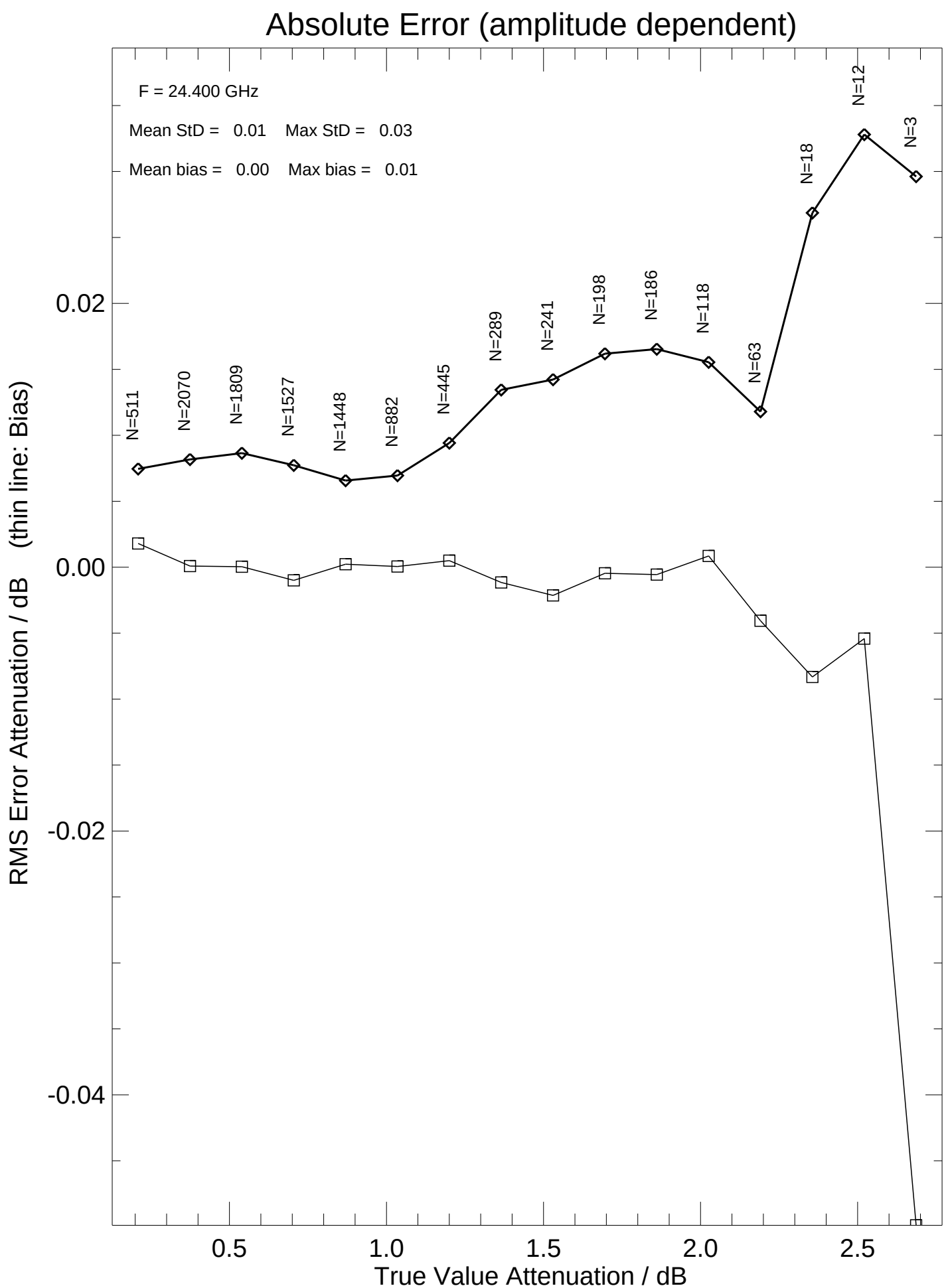

Cor=0.99976 RMS=0.01016 Bias=0.0001
F = 23.840 GHz N2=9820
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5

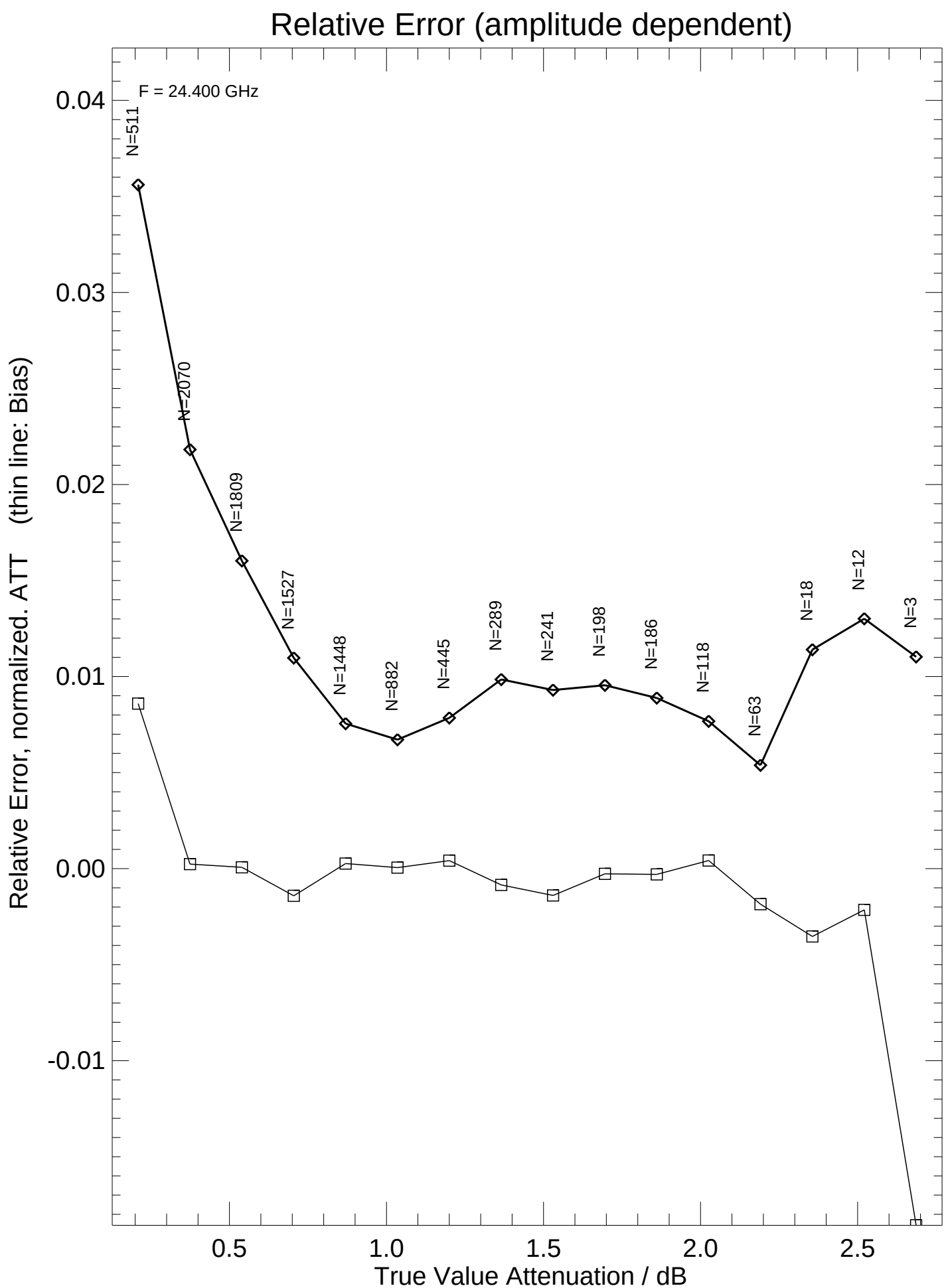

Absolute Error (amplitude dependent)
F = 23.840 GHz
Mean StD = 0.01 Max StD = 0.04
Mean bias = 0.00 Max bias = 0.01
N=371
N=1716
N=1796
N=1407
N=1342
N=1159
N=698
N=343
N=304
N=228
N=189
N=143
N=80
N=27
N=14
N=3
0.04
0.02
0.00
-0.02
-0.04
0.5
1.0
1.5
2.0
2.5
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

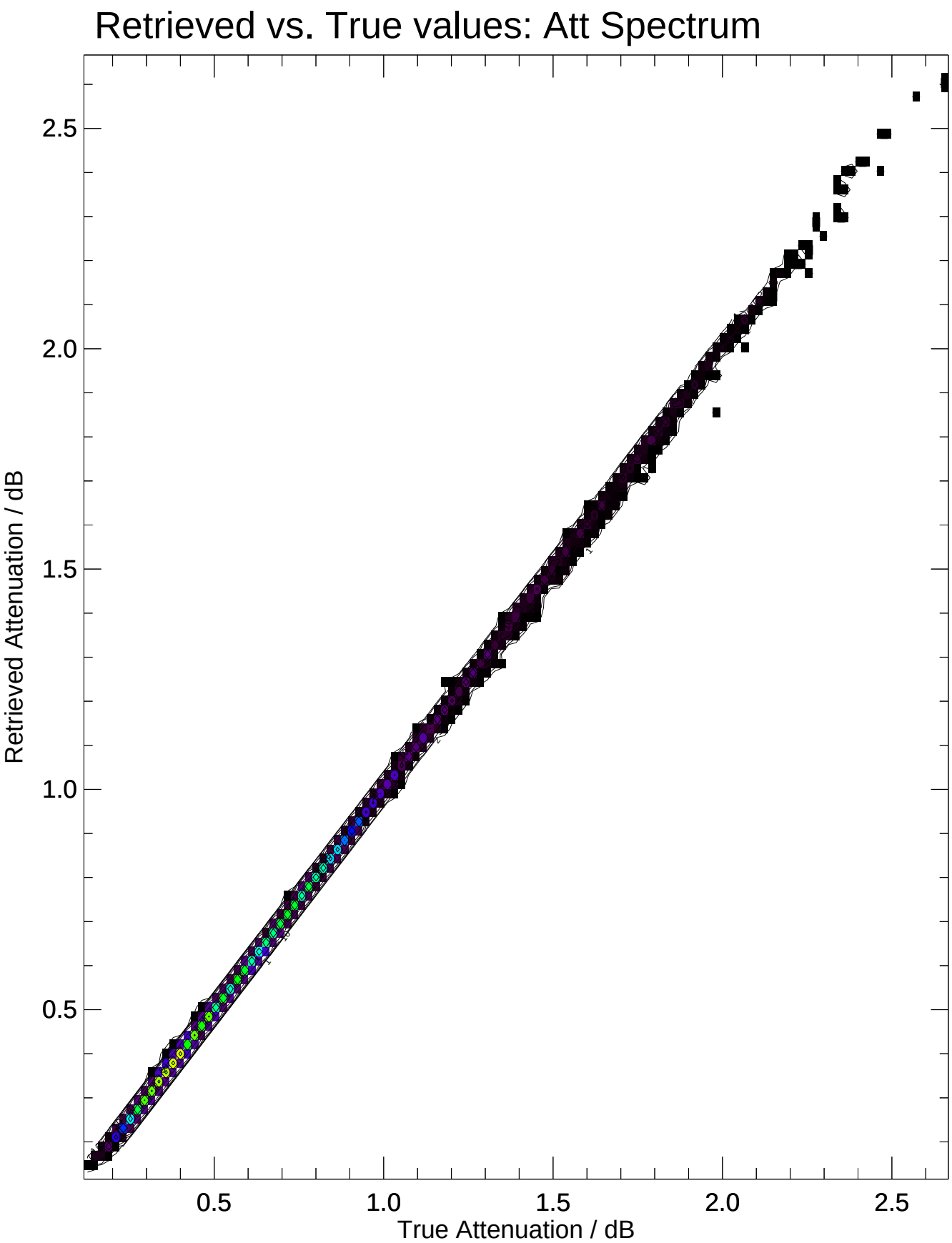

Relative Error (amplitude dependent)
F = 23.840 GHz
N=371
N=1716
N=1796
N=1407
N=1342
N=1159
N=698
N=343
N=304
N=228
N=189
N=143
N=80
N=27
N=14
N=3
0.04
0.03
0.02
0.01
0.00
-0.01
0.5
1.0
1.5
2.0
2.5
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

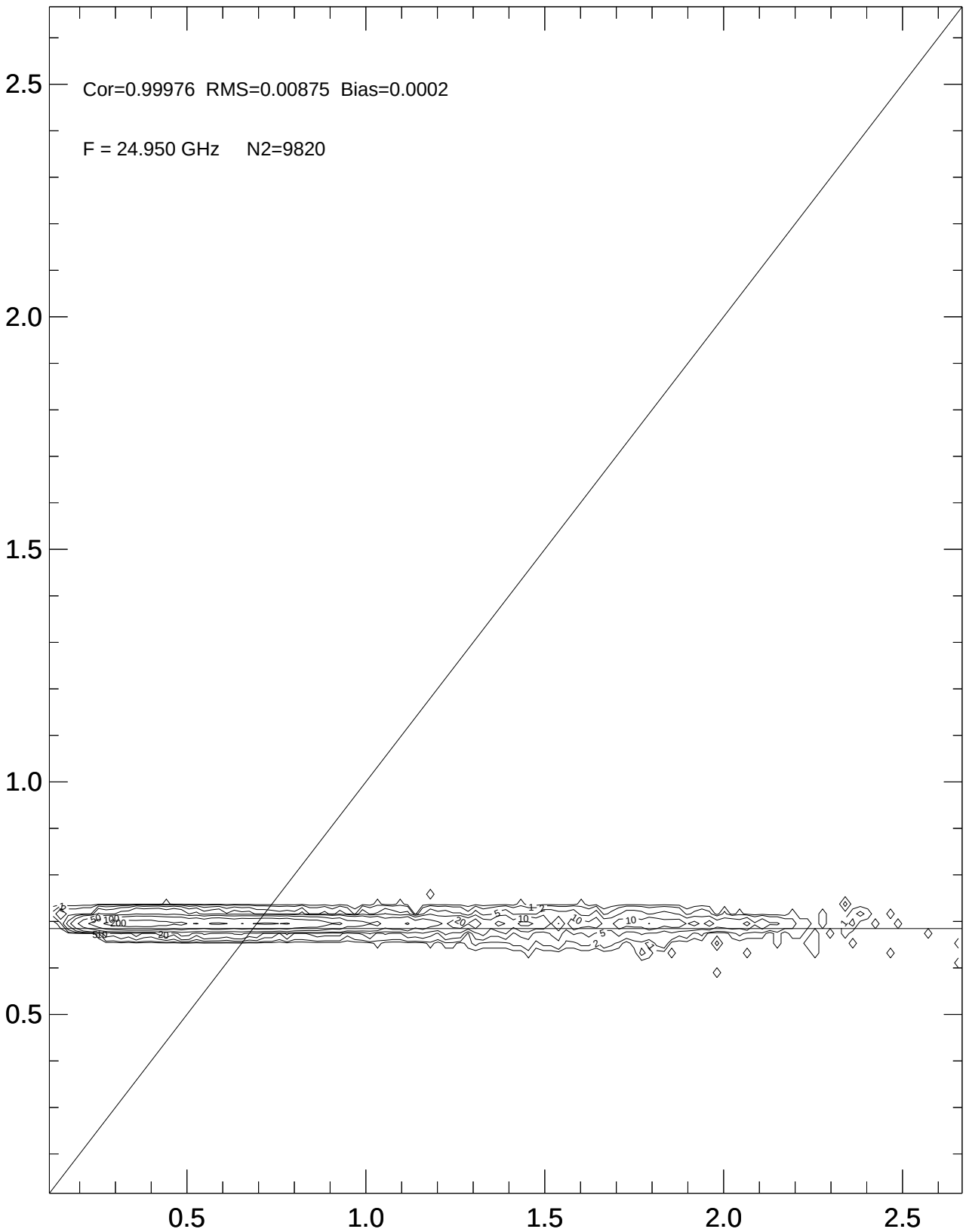

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5

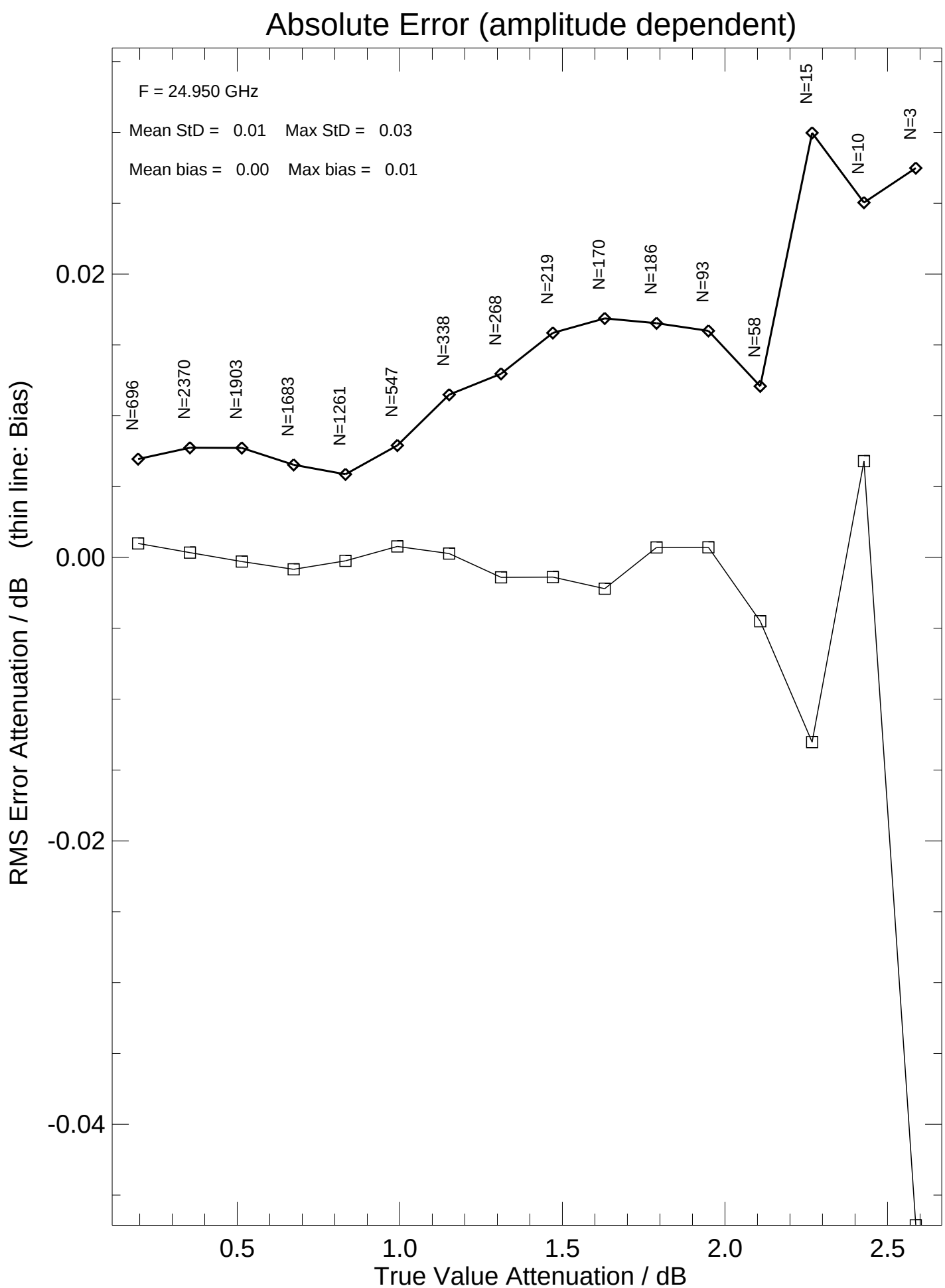

Cor=0.99977 RMS=0.00915 Bias=0.0001
F = 24.400 GHz N2=9820
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5

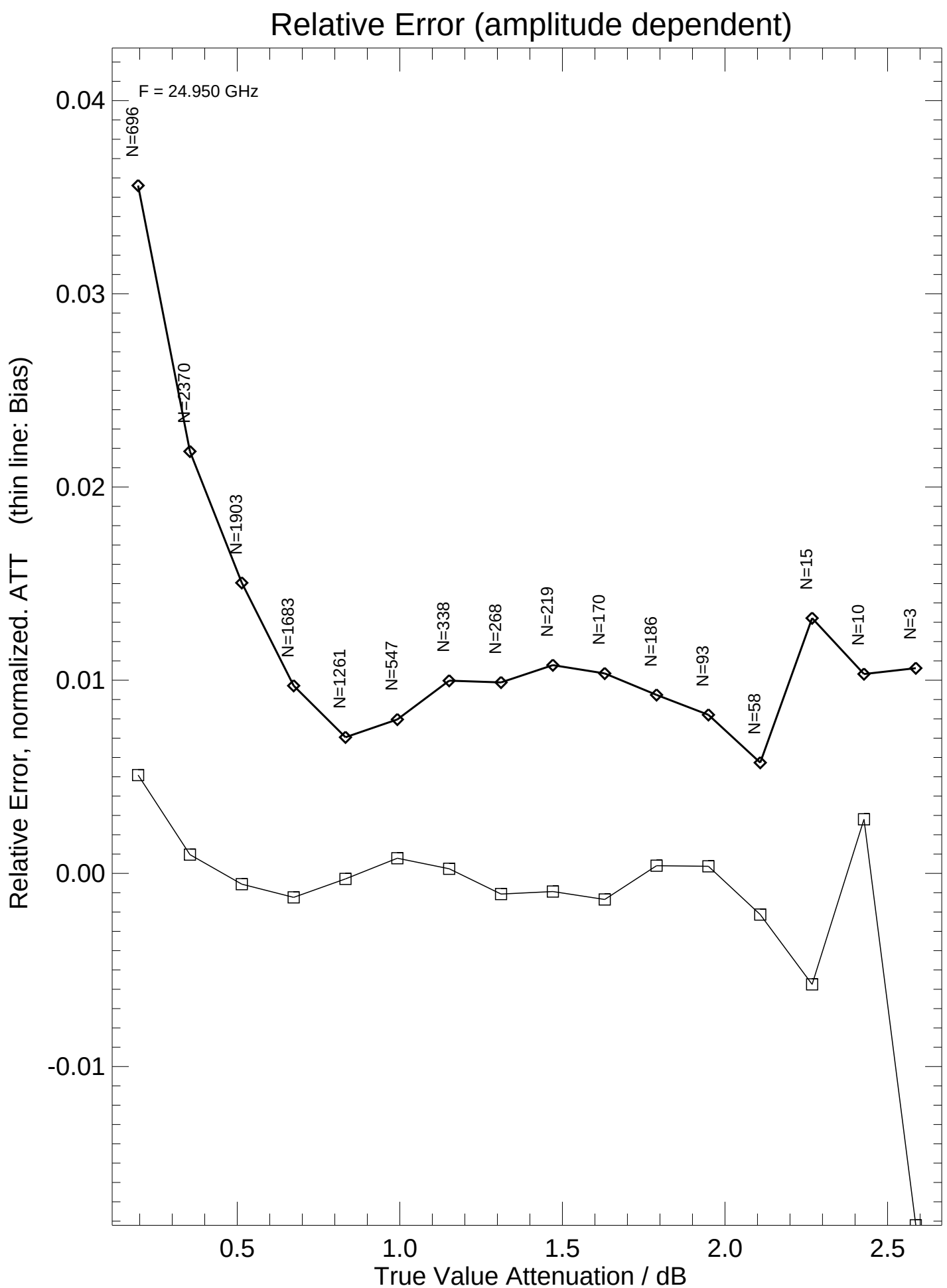

Absolute Error (amplitude dependent)
F = 24.400 GHz
Mean StD = 0.01 Max StD = 0.03
Mean bias = 0.00 Max bias = 0.01
N=511
N=2070
N=1809
N=1527
N=1448
N=882
N=445
N=289
N=241
N=198
N=186
N=118
N=63
N=18
N=12
N=3
0.02
0.00
-0.02
-0.04
RMS Error Attenuation / dB (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
True Value Attenuation / dB

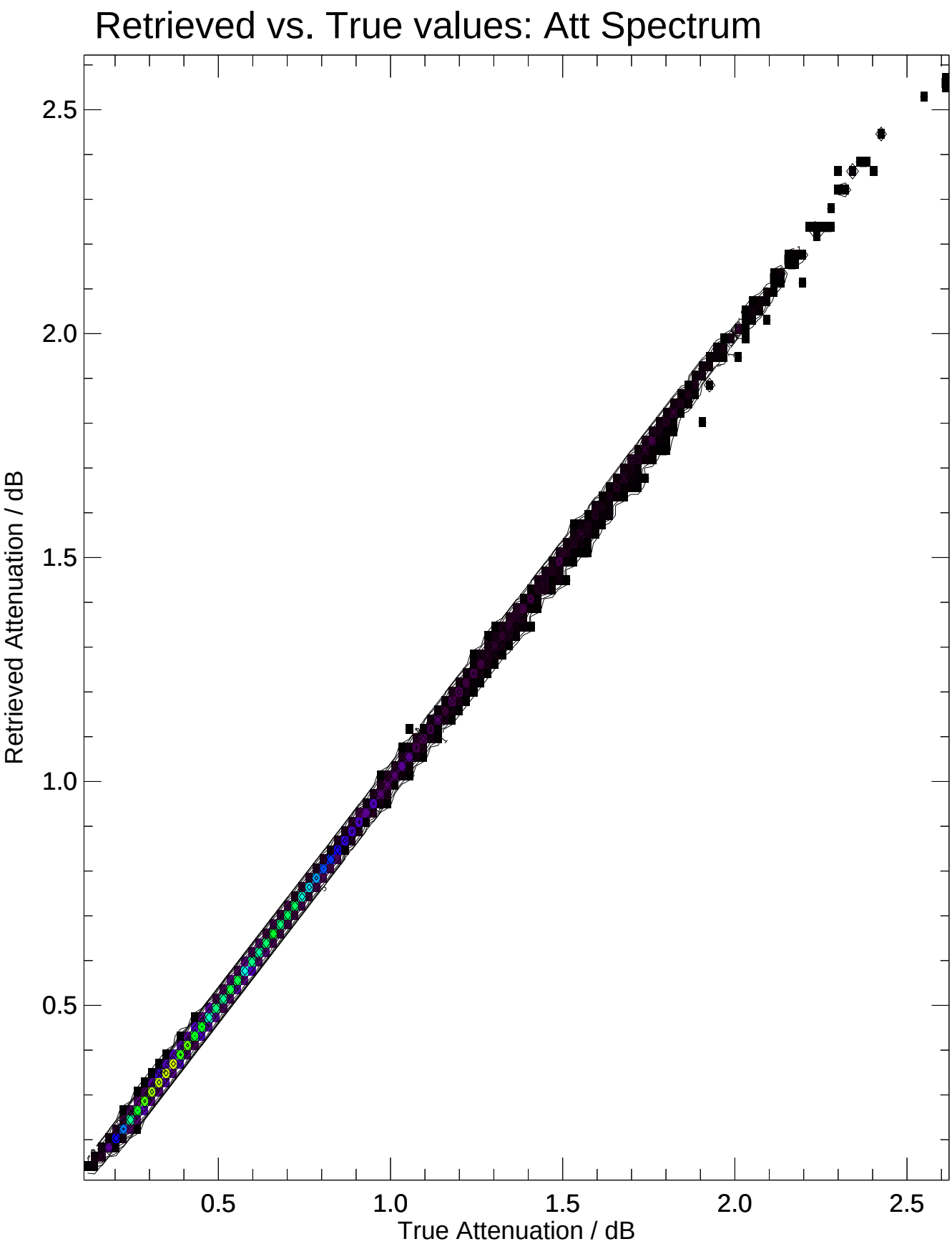

Relative Error (amplitude dependent)
F = 24.400 GHz
N=511
N=2070
N=1809
N=1527
N=1448
N=882
N=445
N=289
N=241
N=198
N=186
N=118
N=63
N=18
N=12
N=3
0.04
0.03
0.02
0.01
0.00
-0.01
0.5
1.0
1.5
2.0
2.5
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

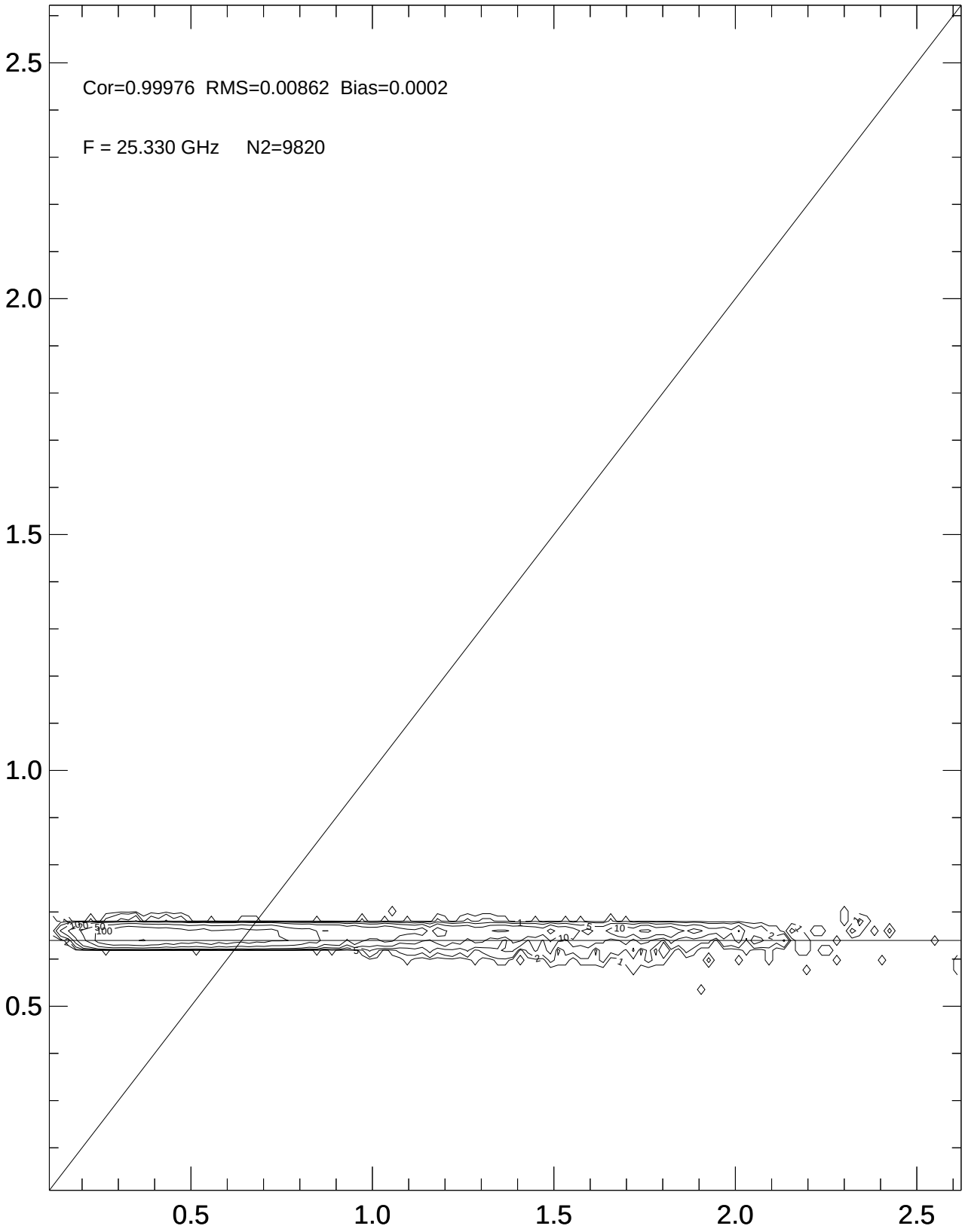

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5

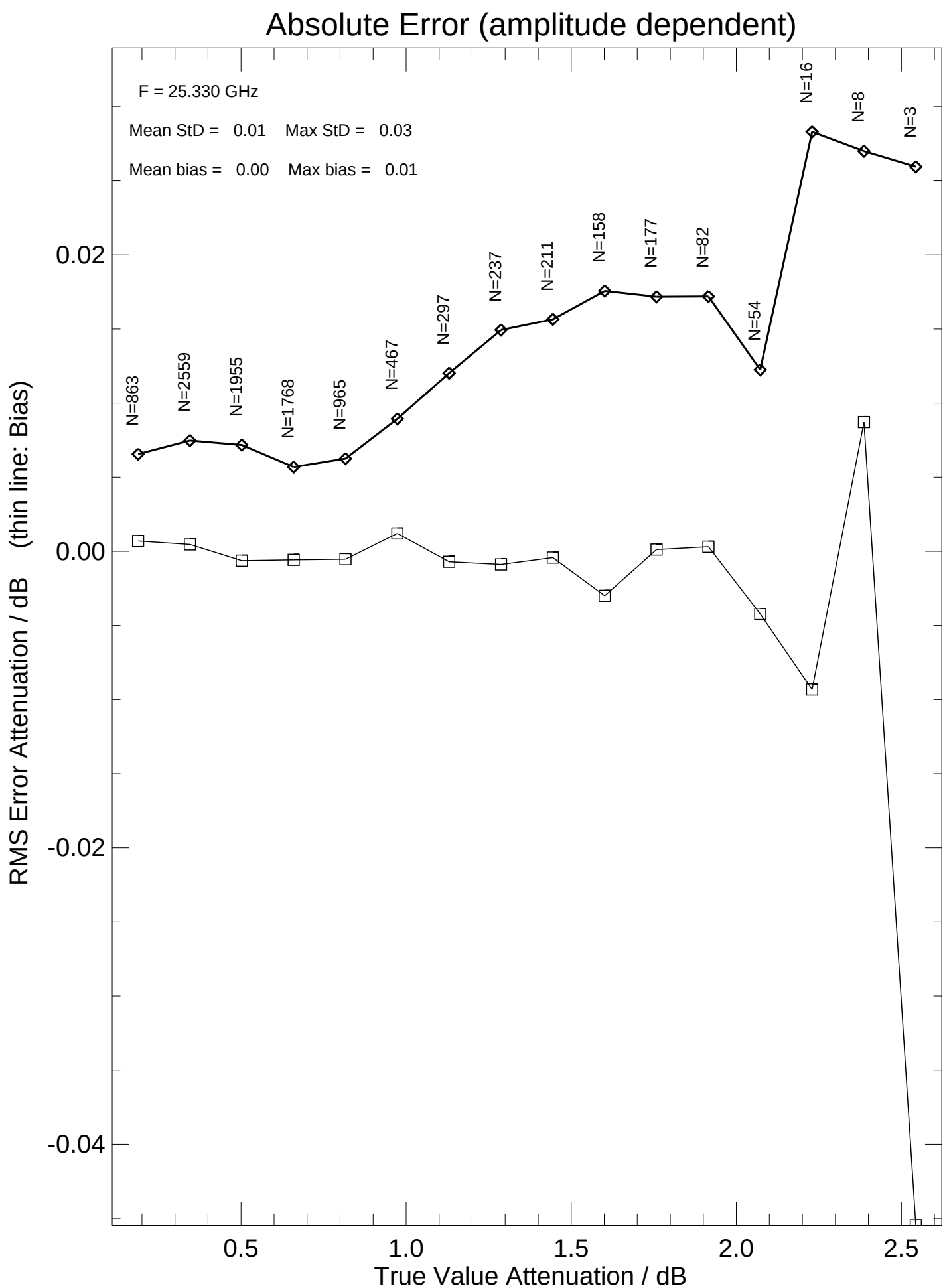

Cor=0.99976 RMS=0.00875 Bias=0.0002
F = 24.950 GHz N2=9820
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5

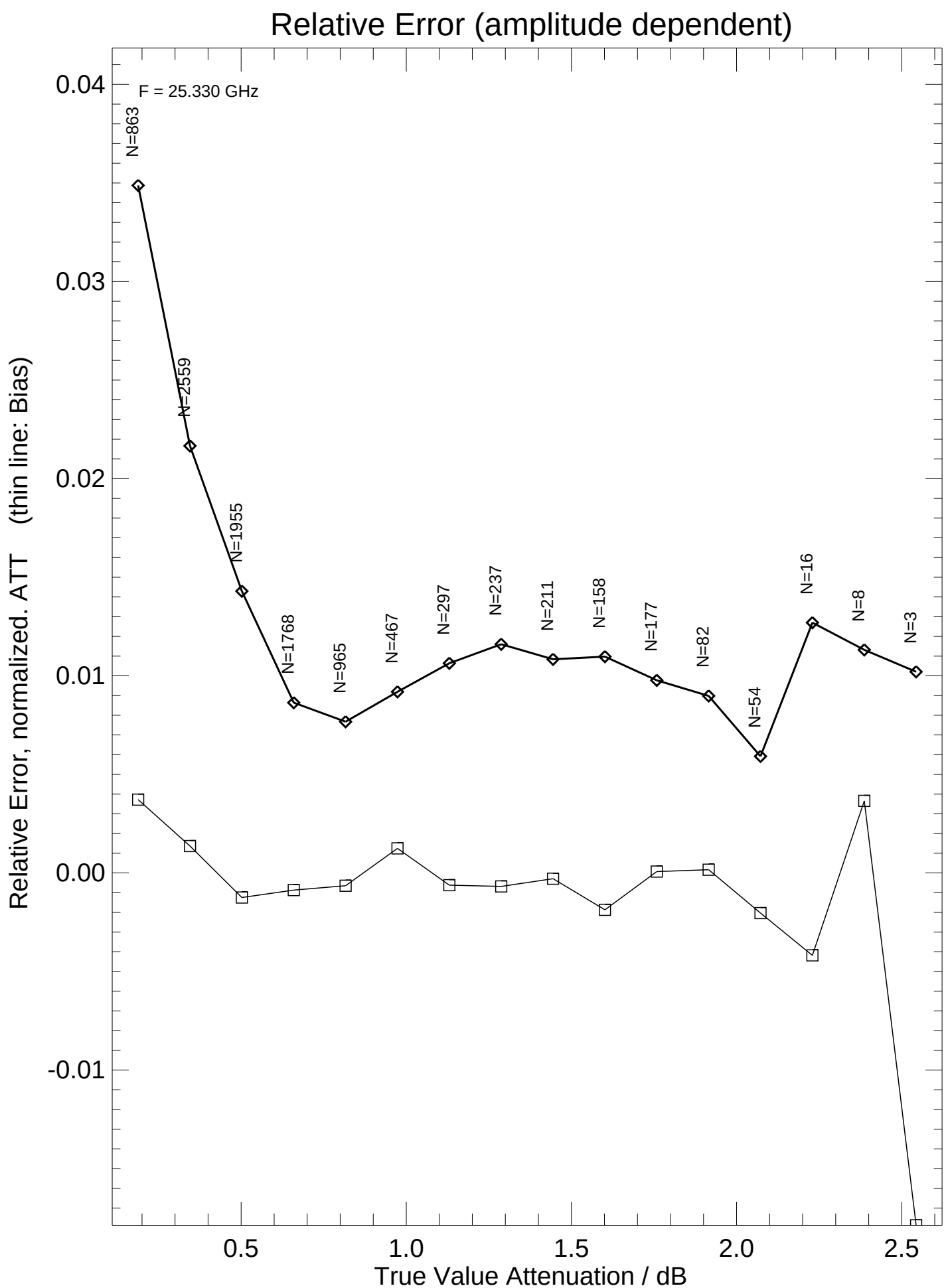

Absolute Error (amplitude dependent)
F = 24.950 GHz
Mean StD = 0.01 Max StD = 0.03
Mean bias = 0.00 Max bias = 0.01
N=696
N=2370
N=1903
N=1683
N=1261
N=547
N=338
N=268
N=219
N=170
N=186
N=93
N=58
N=15
N=10
N=3
0.02
0.00
-0.02
-0.04
RMS Error Attenuation / dB (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
True Value Attenuation / dB

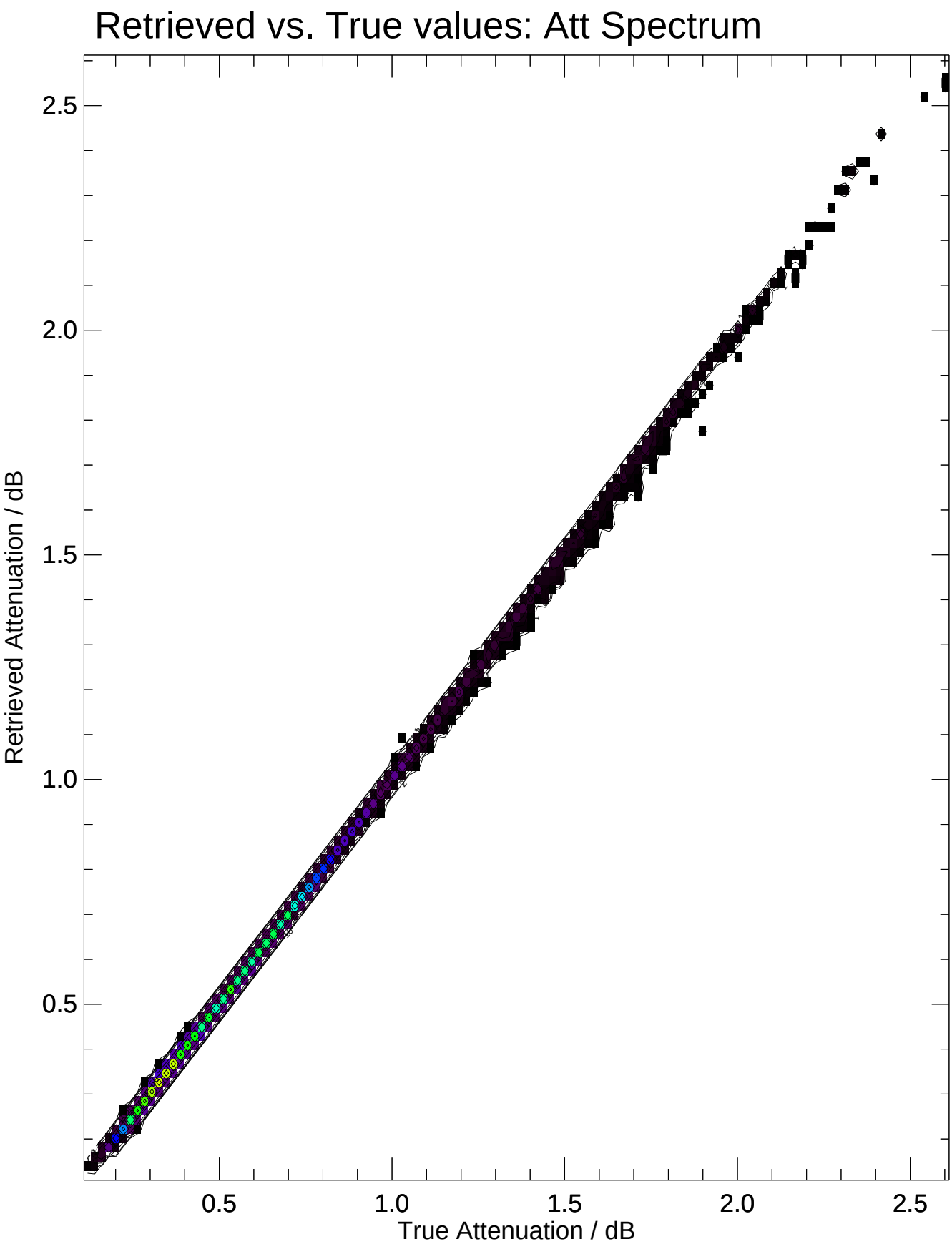

Relative Error (amplitude dependent)
F = 24.950 GHz
N=696
N=2370
N=1903
N=1683
N=1261
N=547
N=338
N=268
N=219
N=170
N=186
N=93
N=58
N=15
N=10
N=3
0.04
0.03
0.02
0.01
0.00
-0.01
0.5
1.0
1.5
2.0
2.5
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

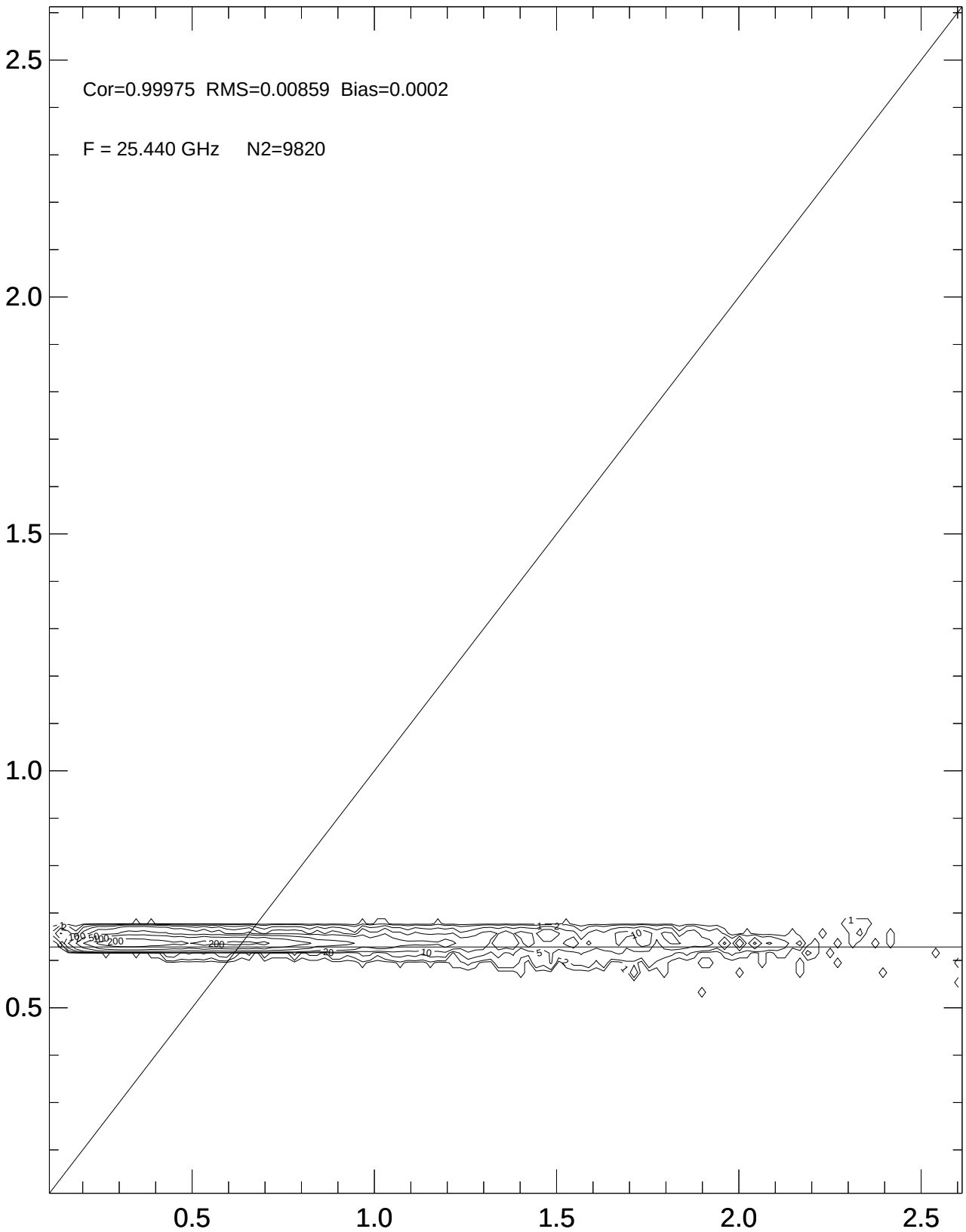

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5

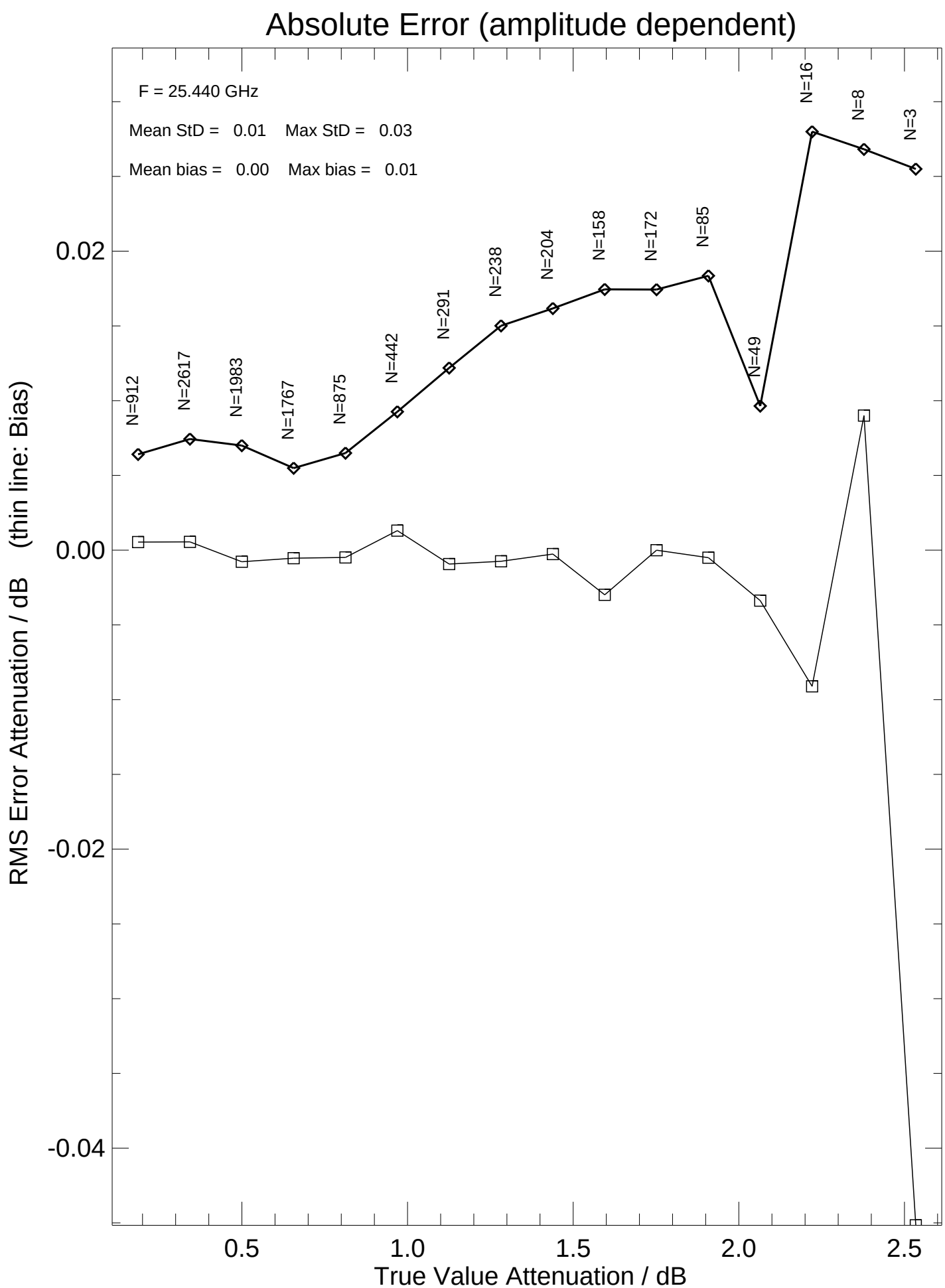

Cor=0.99976 RMS=0.00862 Bias=0.0002
F = 25.330 GHz N2=9820
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5

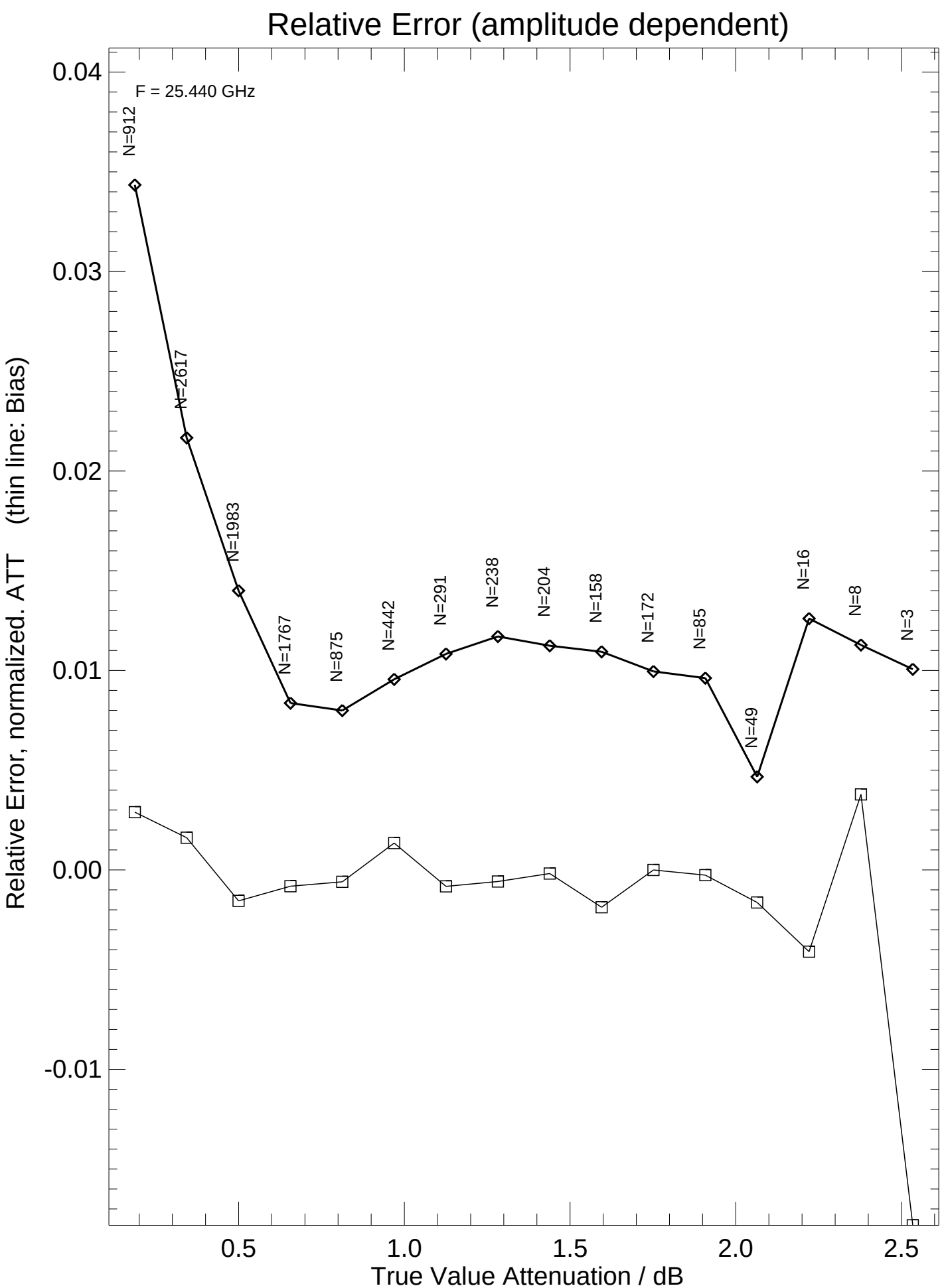

Absolute Error (amplitude dependent)
F = 25.330 GHz
Mean StD = 0.01 Max StD = 0.03
Mean bias = 0.00 Max bias = 0.01
N=863
N=2559
N=1955
N=1768
N=965
N=467
N=297
N=237
N=211
N=158
N=177
N=82
N=54
N=16
N=8
N=3
0.02
0.00
-0.02
-0.04
RMS Error Attenuation / dB (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
True Value Attenuation / dB

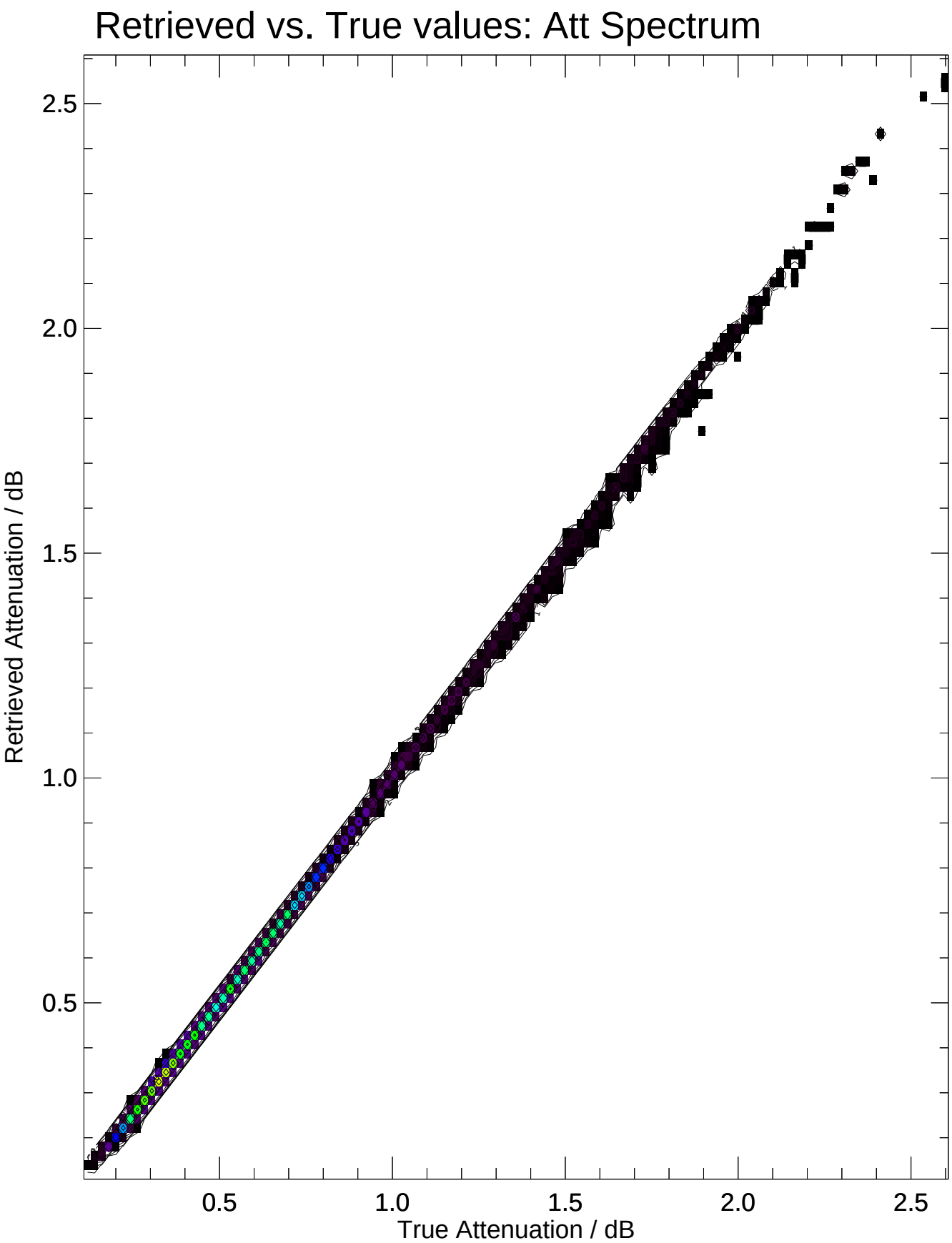

Relative Error (amplitude dependent)
F = 25.330 GHz
N=863
N=2559
N=1955
N=1768
N=965
N=467
N=297
N=237
N=211
N=158
N=177
N=82
N=54
N=16
N=8
N=3
0.04
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
True Value Attenuation / dB

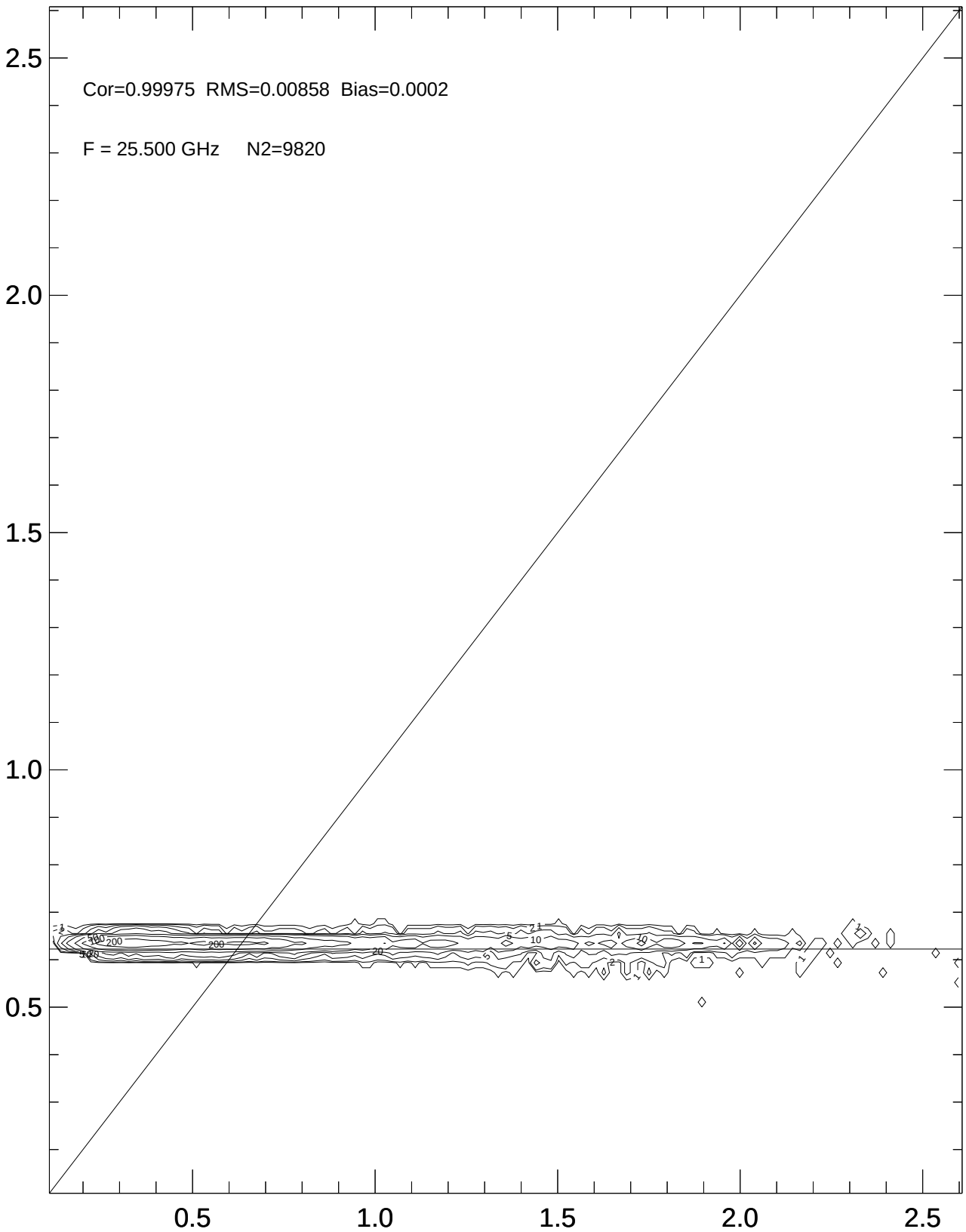

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5

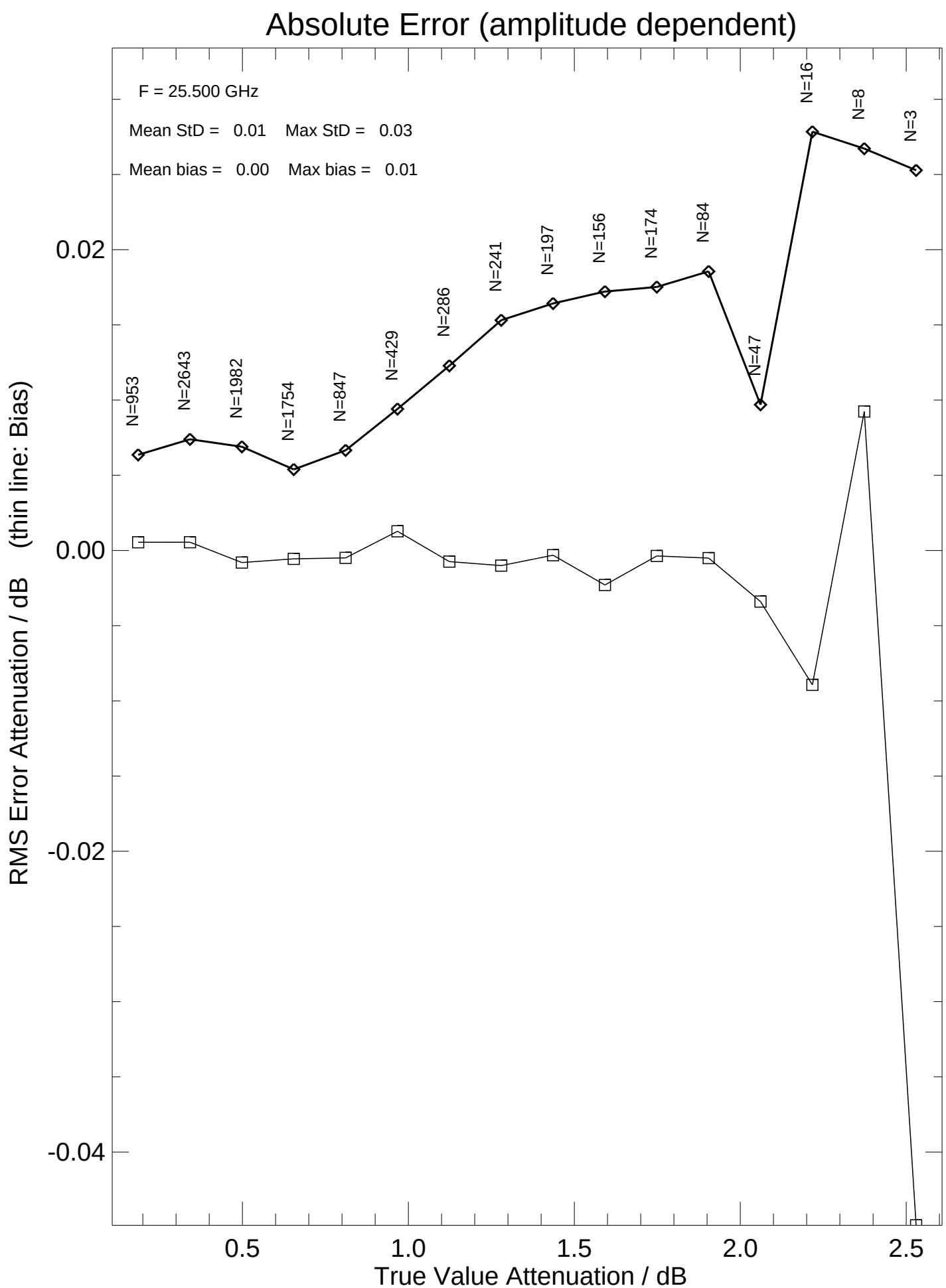

Cor=0.99975 RMS=0.00859 Bias=0.0002
F = 25.440 GHz N2=9820
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5

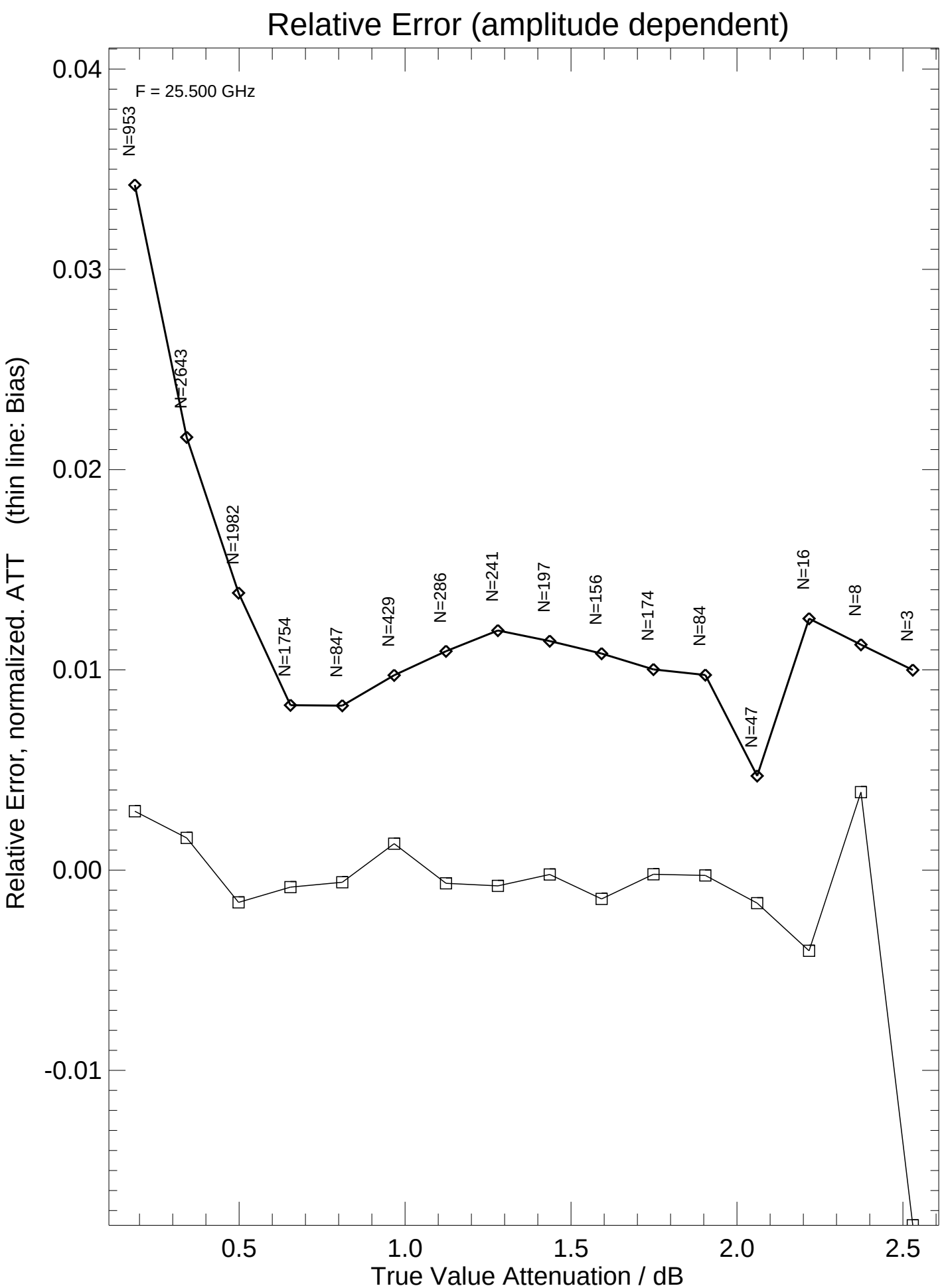

Absolute Error (amplitude dependent)
F = 25.440 GHz
Mean StD = 0.01 Max StD = 0.03
Mean bias = 0.00 Max bias = 0.01
N=912
N=2617
N=1983
N=1767
N=875
N=442
N=291
N=238
N=204
N=158
N=172
N=85
N=49
N=16
N=8
N=3
0.02
0.00
-0.02
-0.04
RMS Error Attenuation / dB (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
True Value Attenuation / dB

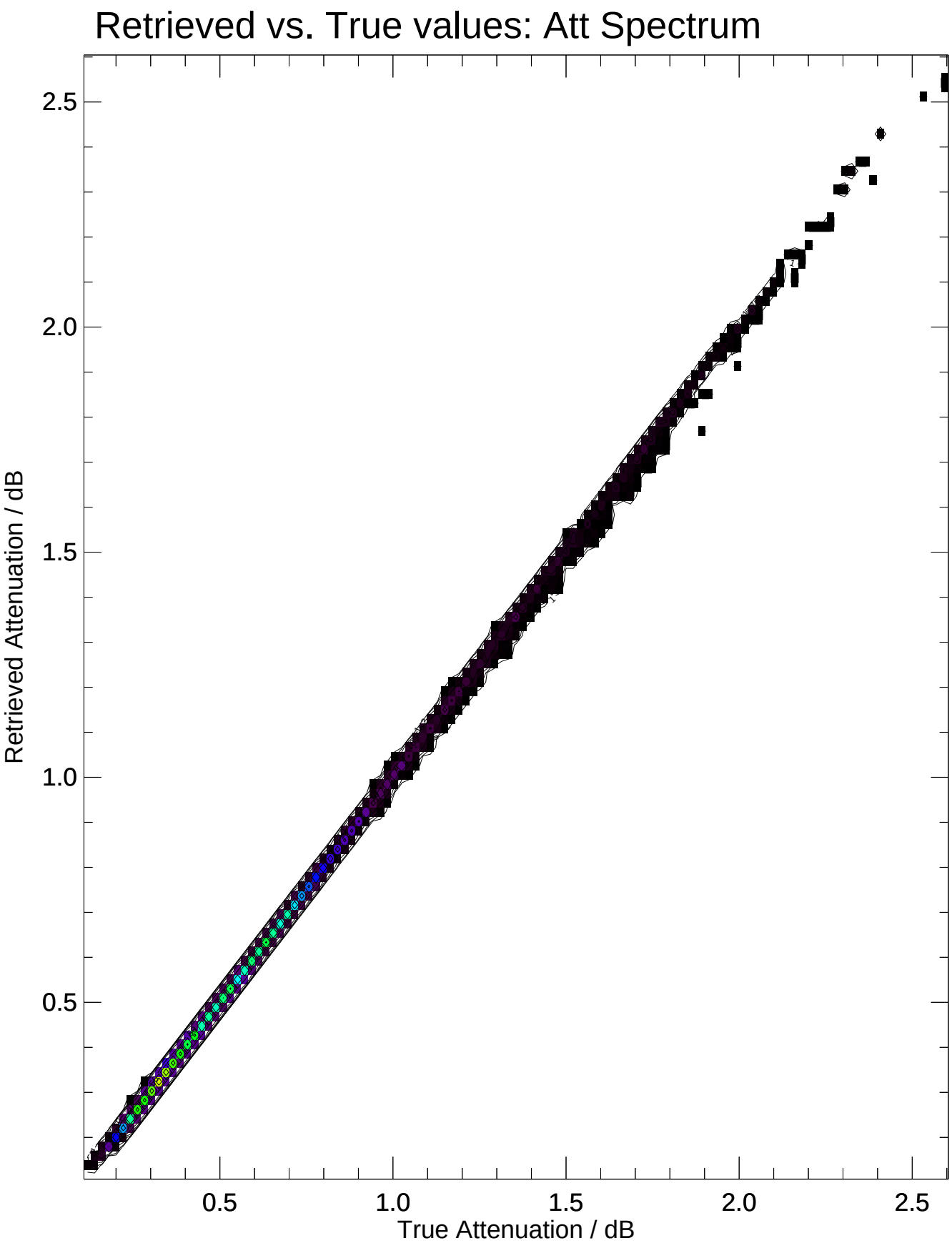

Relative Error (amplitude dependent)
F = 25.440 GHz
N=912
N=2617
N=1983
N=1767
N=875
N=442
N=291
N=238
N=204
N=158
N=172
N=85
N=49
N=16
N=8
N=3
0.04
0.03
0.02
0.01
0.00
-0.01
0.5
1.0
1.5
2.0
2.5
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

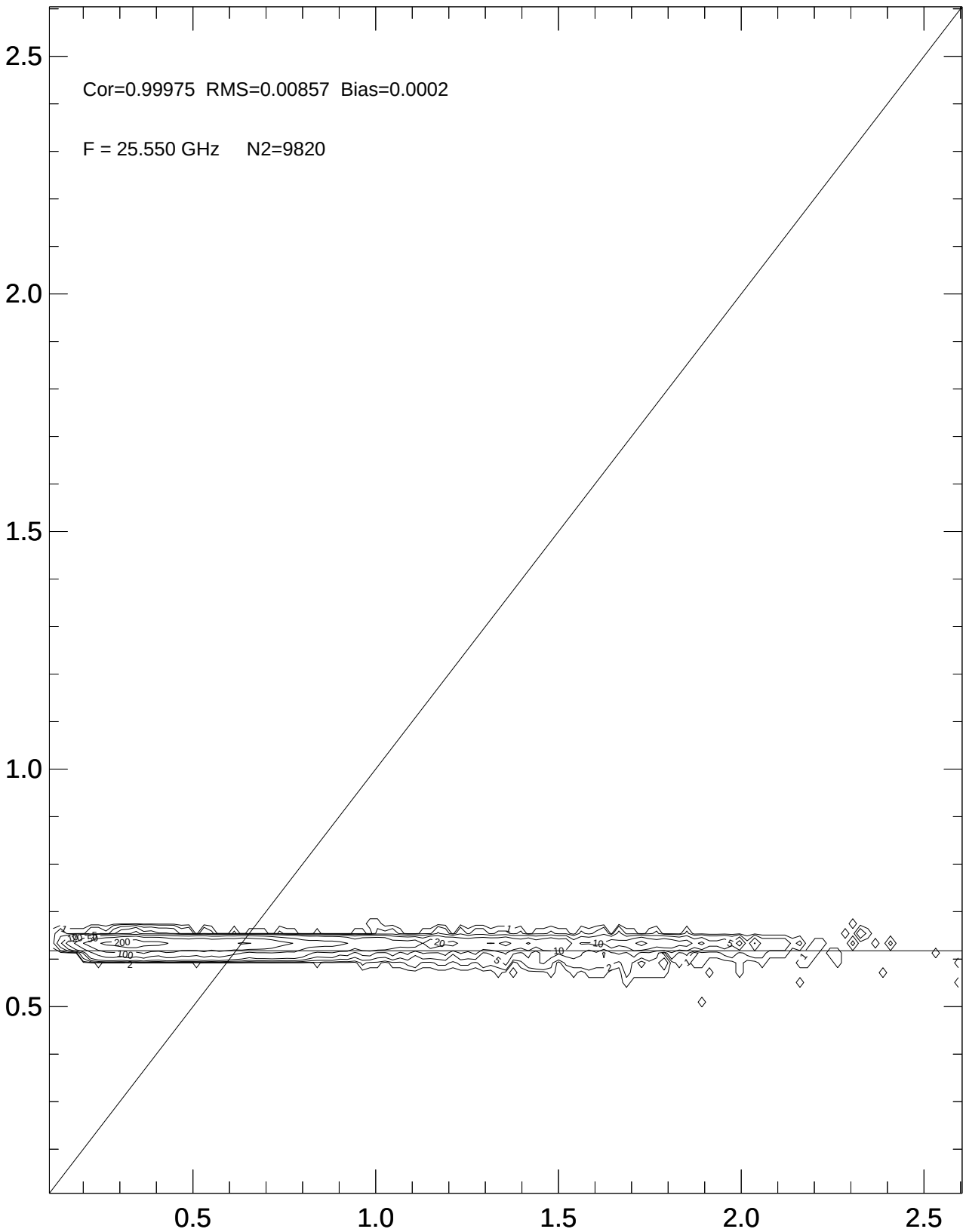

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5

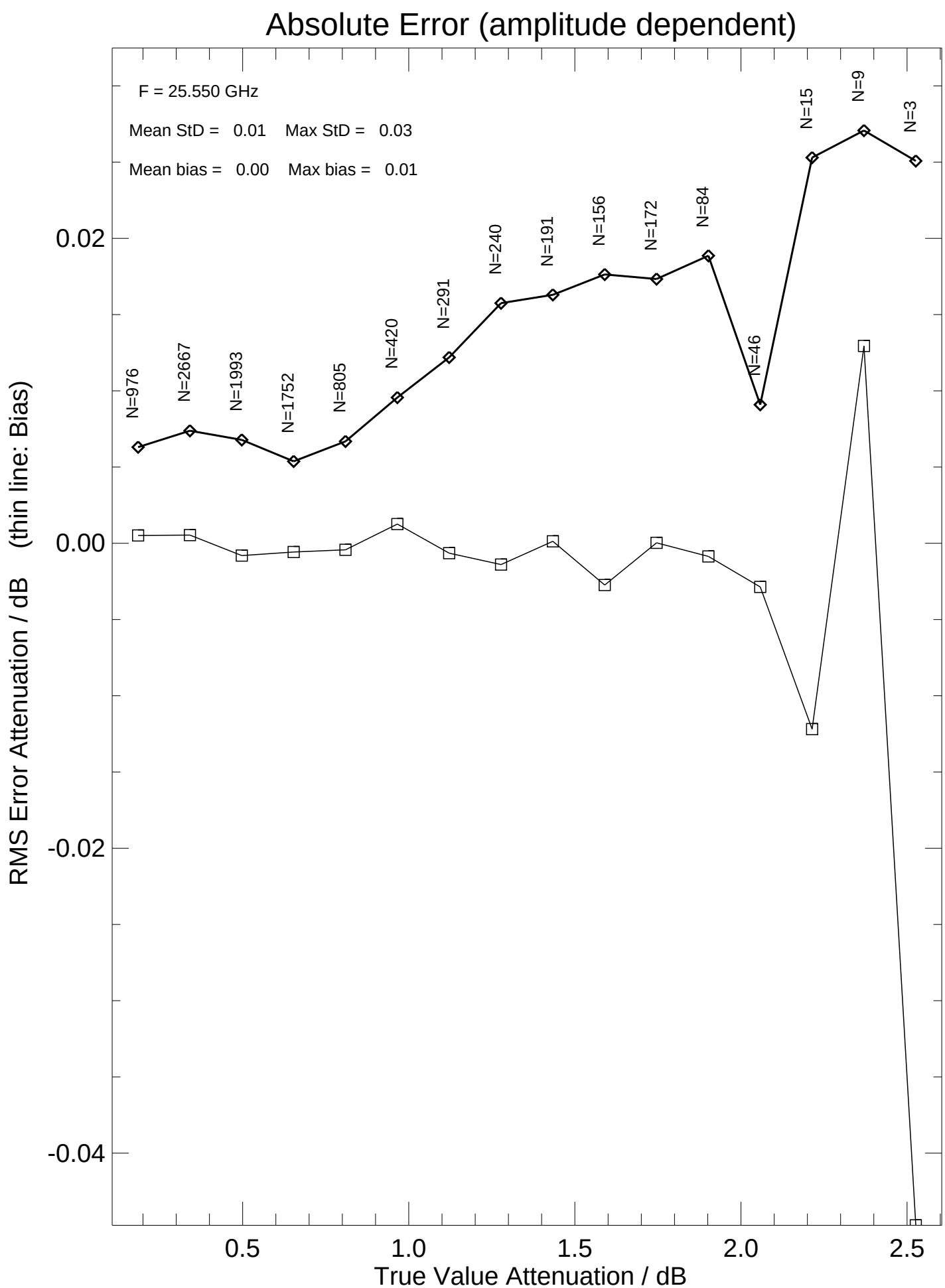

Cor=0.99975 RMS=0.00858 Bias=0.0002
F = 25.500 GHz N2=9820
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5

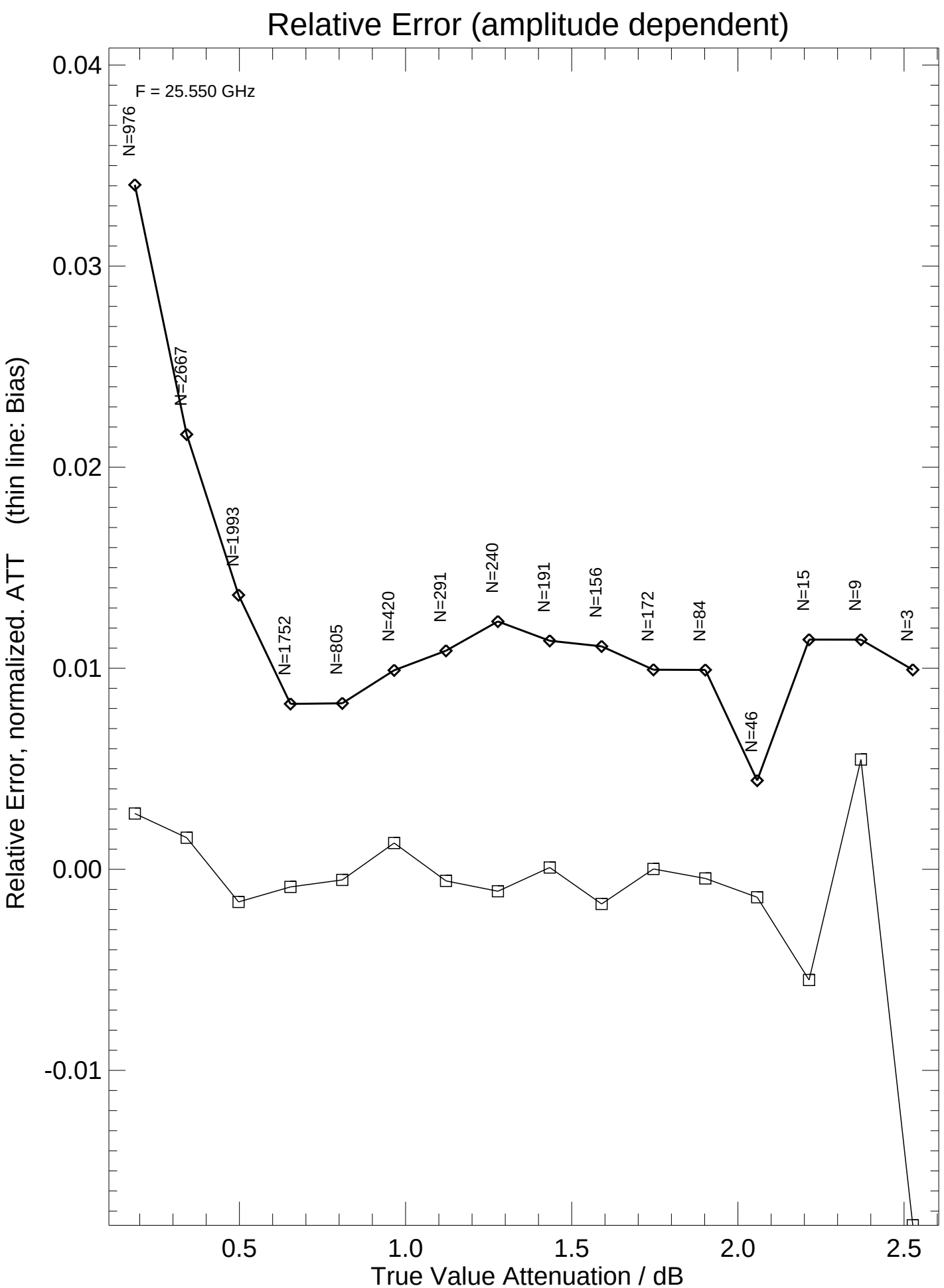

Absolute Error (amplitude dependent)
F = 25.500 GHz
Mean StD = 0.01 Max StD = 0.03
Mean bias = 0.00 Max bias = 0.01
N=953
N=2643
N=1982
N=1754
N=847
N=429
N=286
N=241
N=197
N=156
N=174
N=84
N=47
N=16
N=8
N=3
0.02
0.00
-0.02
-0.04
RMS Error Attenuation / dB (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
True Value Attenuation / dB

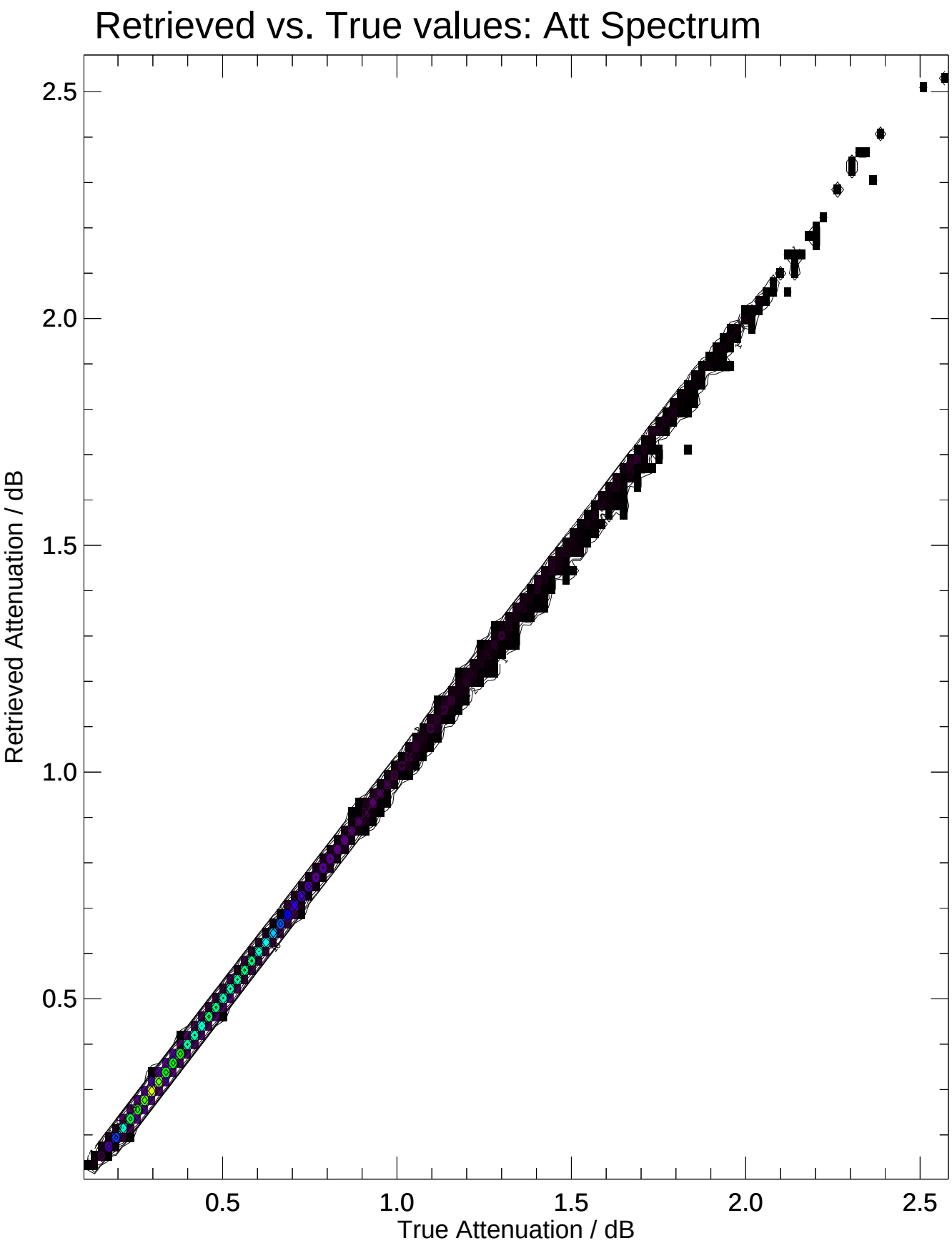

Relative Error (amplitude dependent)
F = 25.500 GHz
N=953
N=2643
N=1982
N=1754
N=847
N=429
N=286
N=241
N=197
N=156
N=174
N=84
N=47
N=16
N=8
N=3
0.04
0.03
0.02
0.01
0.00
-0.01
0.5
1.0
1.5
2.0
2.5
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

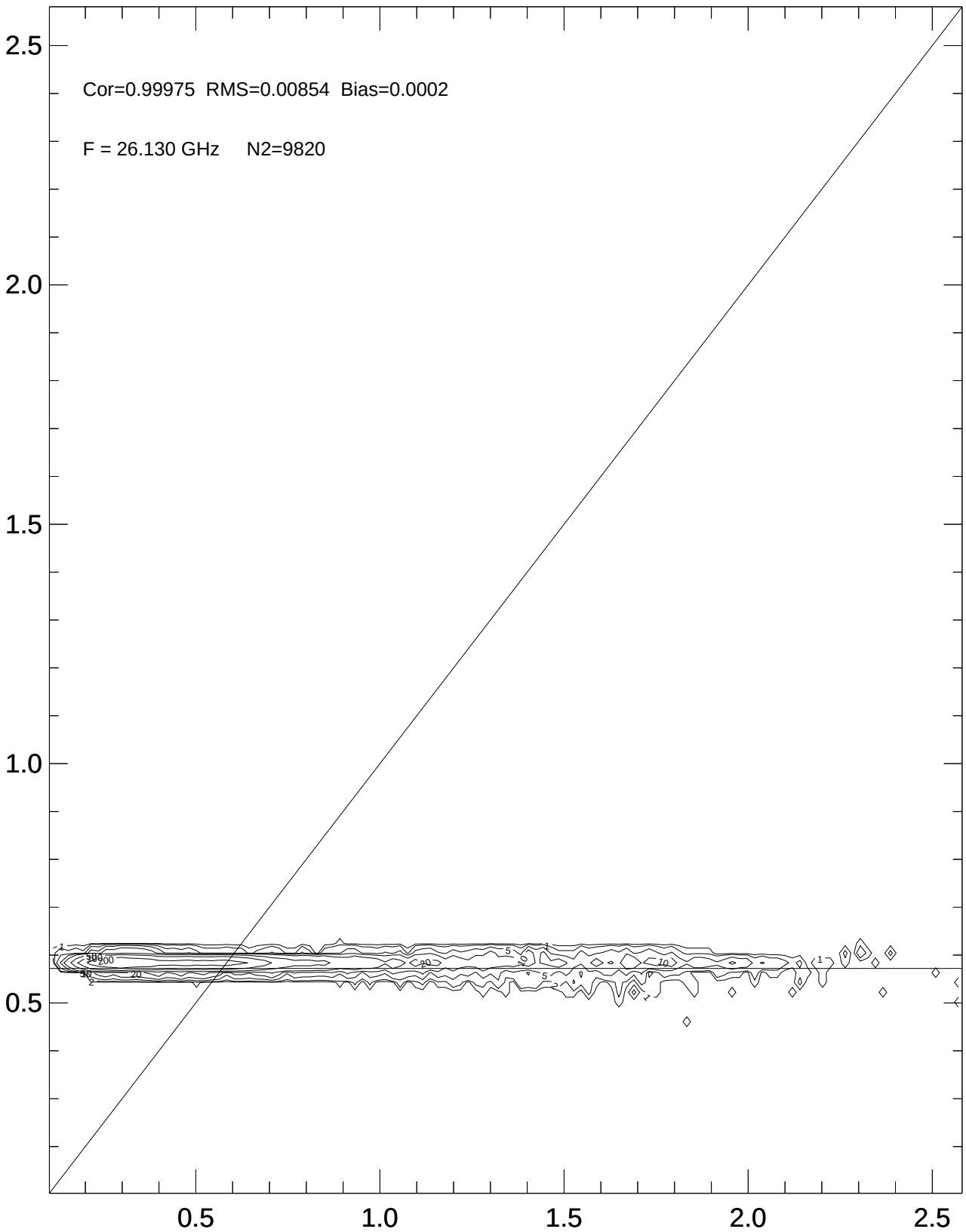

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5

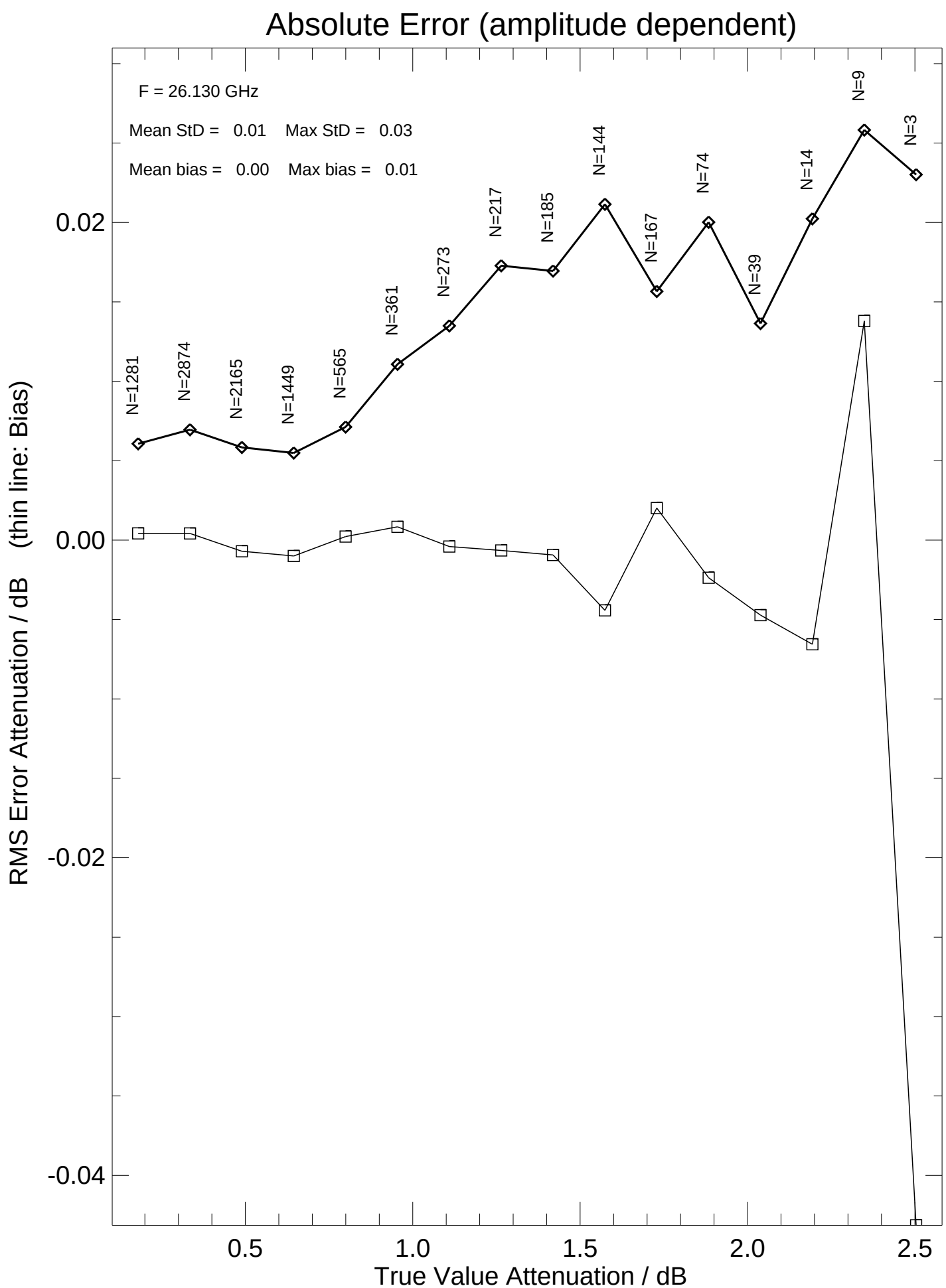

Cor=0.99975 RMS=0.00857 Bias=0.0002
F = 25.550 GHz N2=9820
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5

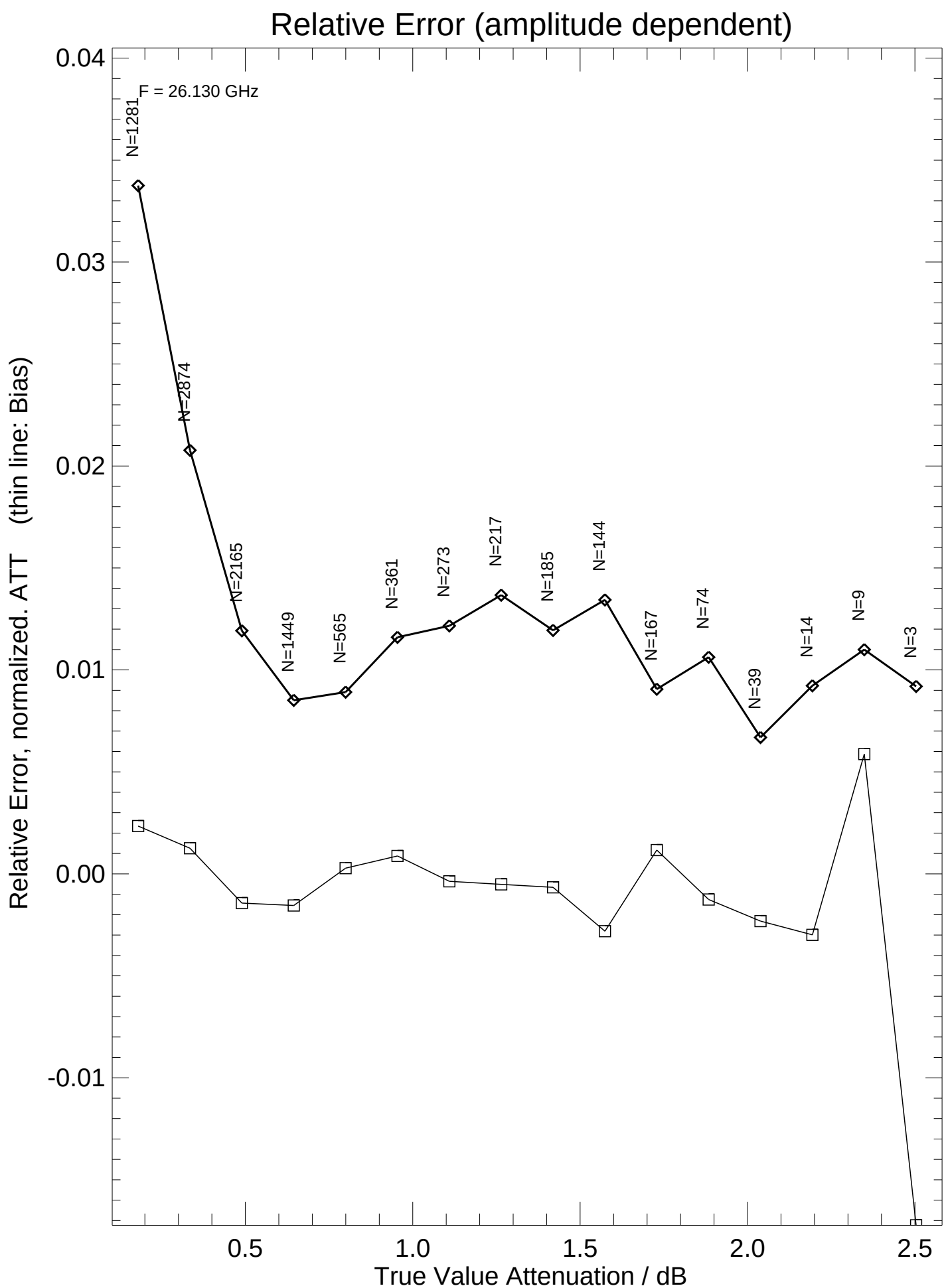

Absolute Error (amplitude dependent)
F = 25.550 GHz
Mean StD = 0.01 Max StD = 0.03
Mean bias = 0.00 Max bias = 0.01
N=976
N=2667
N=1993
N=1752
N=805
N=420
N=291
N=240
N=191
N=156
N=172
N=84
N=46
N=15
N=9
N=3
0.02
0.00
-0.02
-0.04
RMS Error Attenuation / dB (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
True Value Attenuation / dB

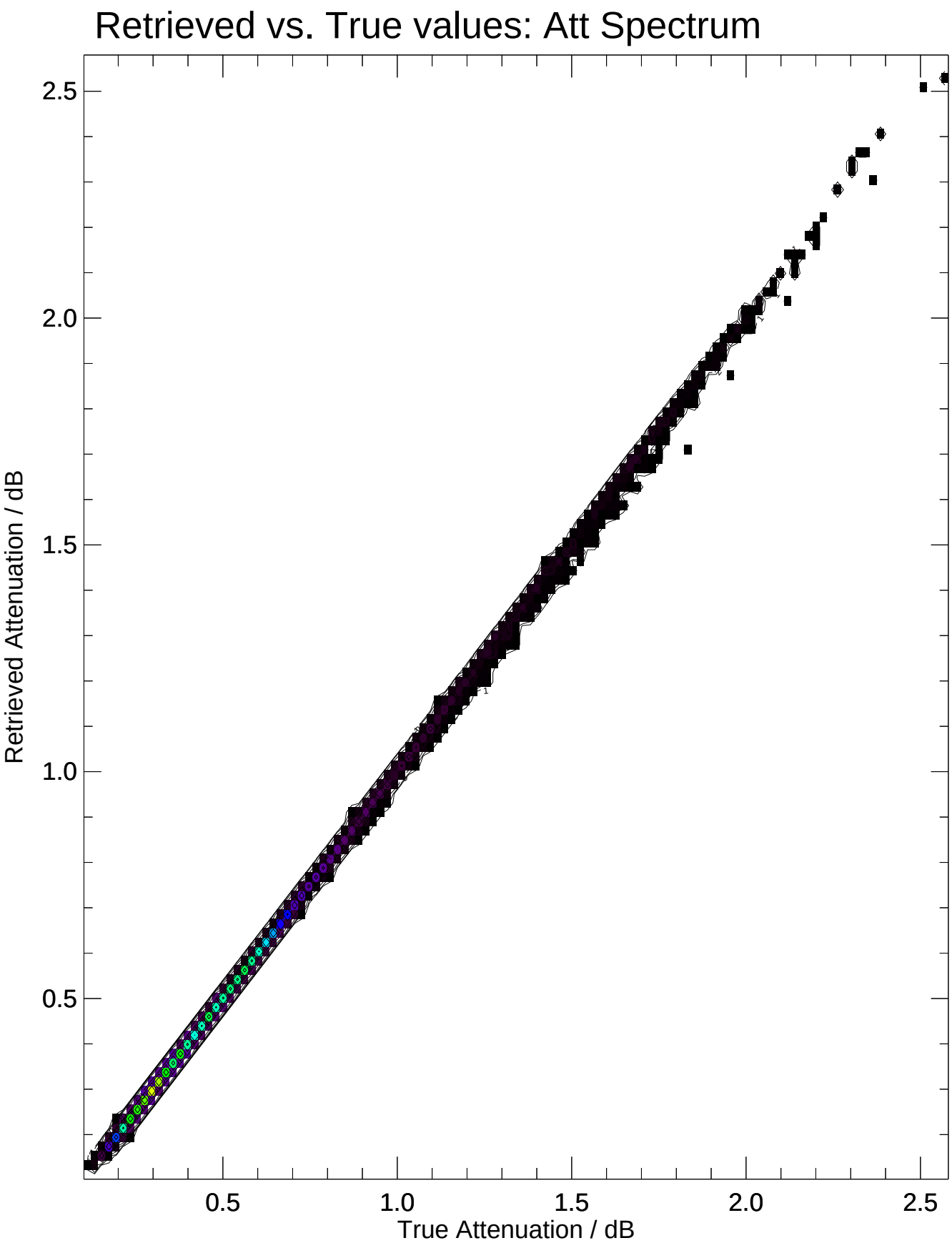

Relative Error (amplitude dependent)
F = 25.550 GHz
N=976
N=2667
N=1993
N=1752
N=805
N=420
N=291
N=240
N=191
N=156
N=172
N=84
N=46
N=15
N=9
N=3
0.04
0.03
0.02
0.01
0.00
-0.01
0.5
1.0
1.5
2.0
2.5
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

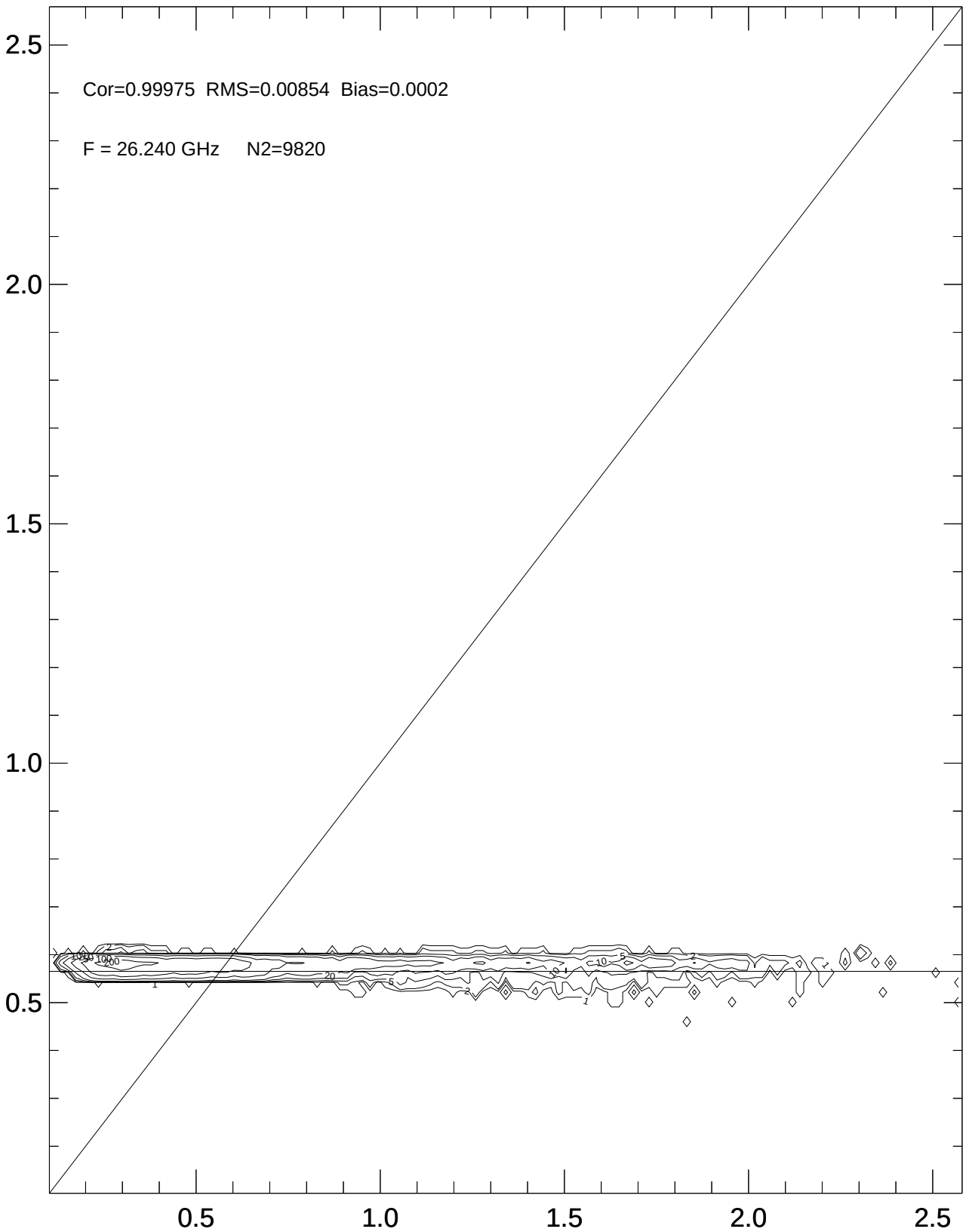

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5

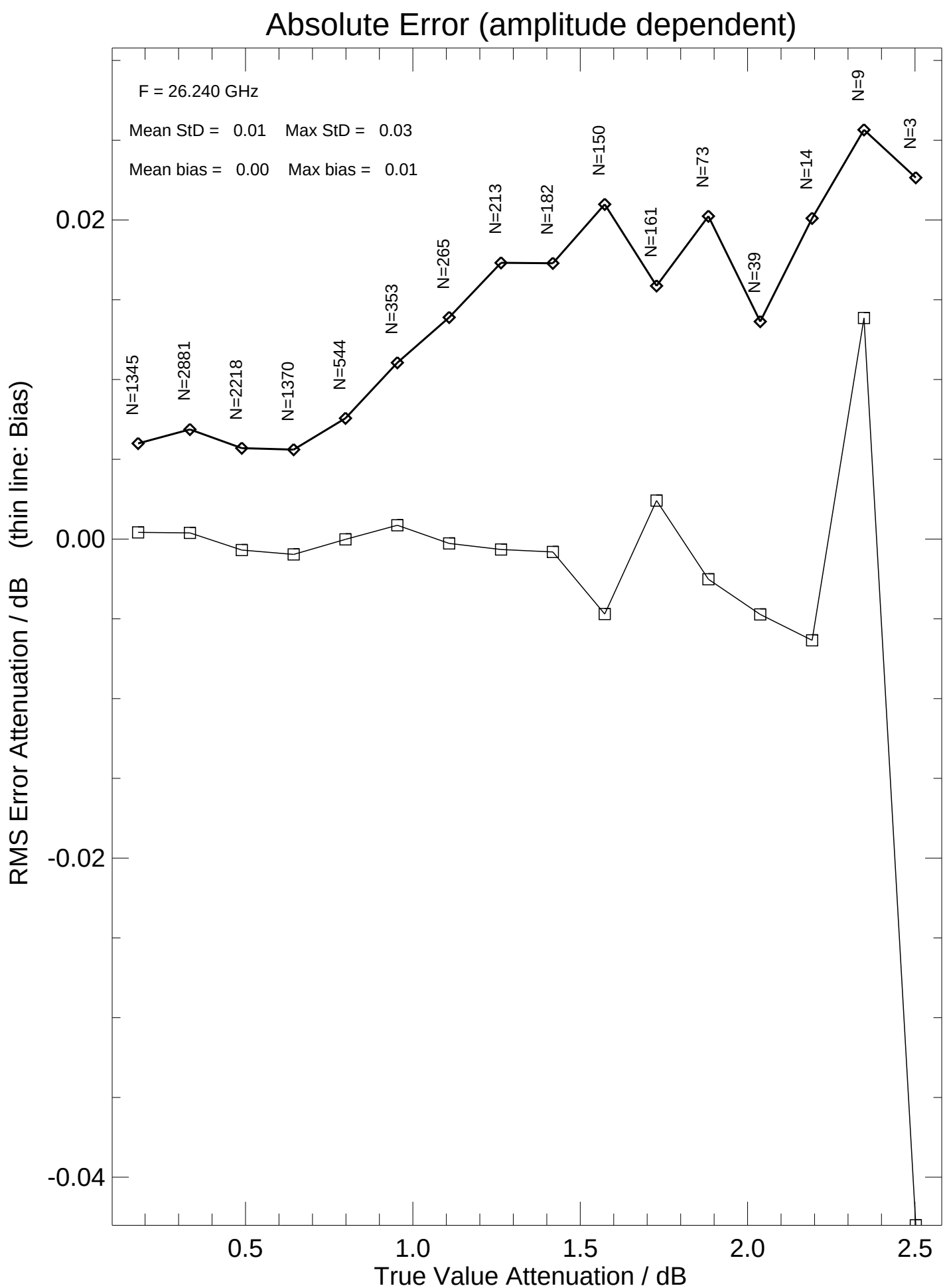

Cor=0.99975 RMS=0.00854 Bias=0.0002
F = 26.130 GHz N2=9820
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5

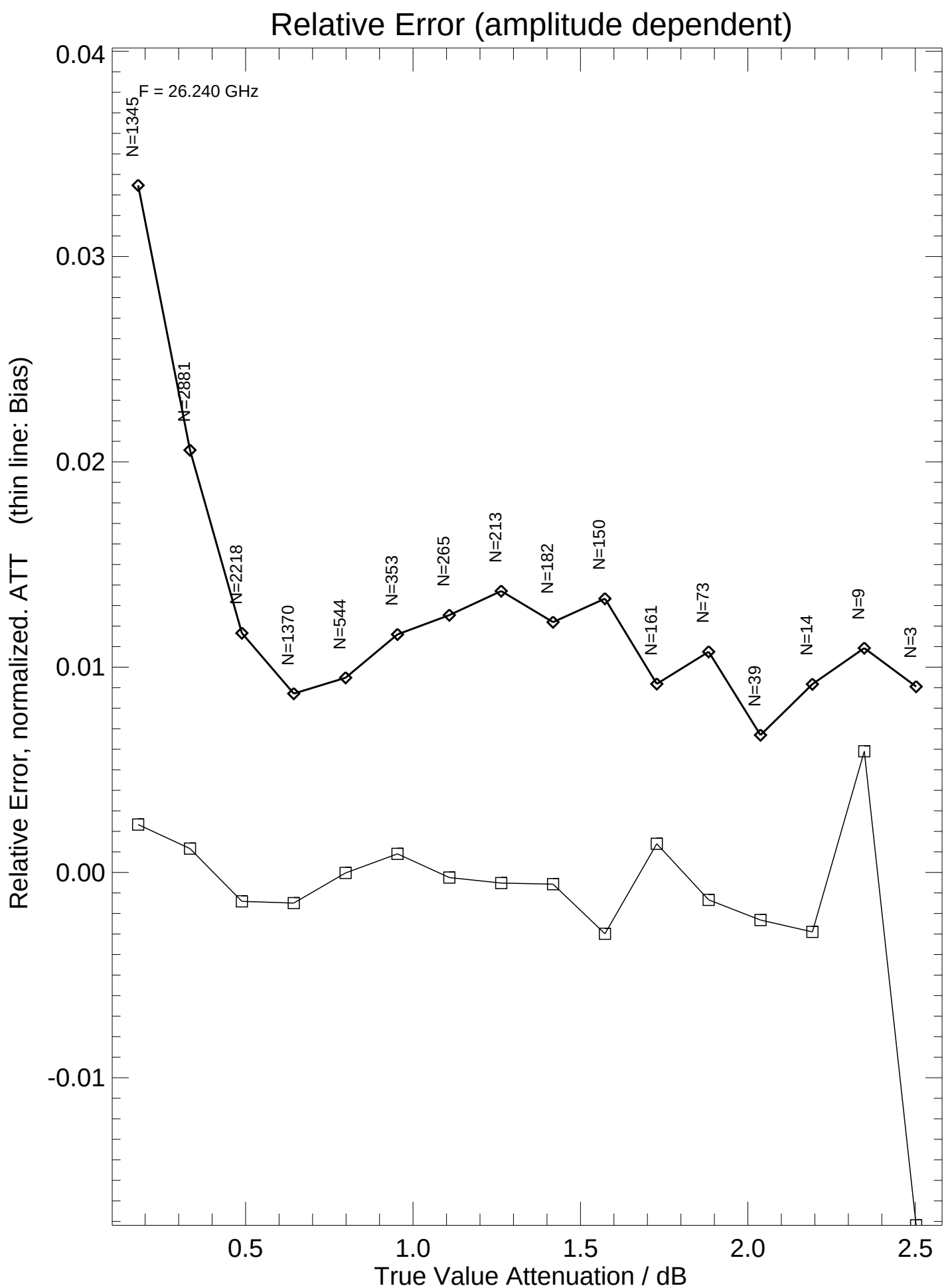

Absolute Error (amplitude dependent)
F = 26.130 GHz
Mean StD = 0.01 Max StD = 0.03
Mean bias = 0.00 Max bias = 0.01
N=1281
N=2874
N=2165
N=1449
N=565
N=361
N=273
N=217
N=185
N=144
N=167
N=74
N=39
N=14
N=9
N=3
0.02
0.00
-0.02
-0.04
RMS Error Attenuation / dB (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
True Value Attenuation / dB

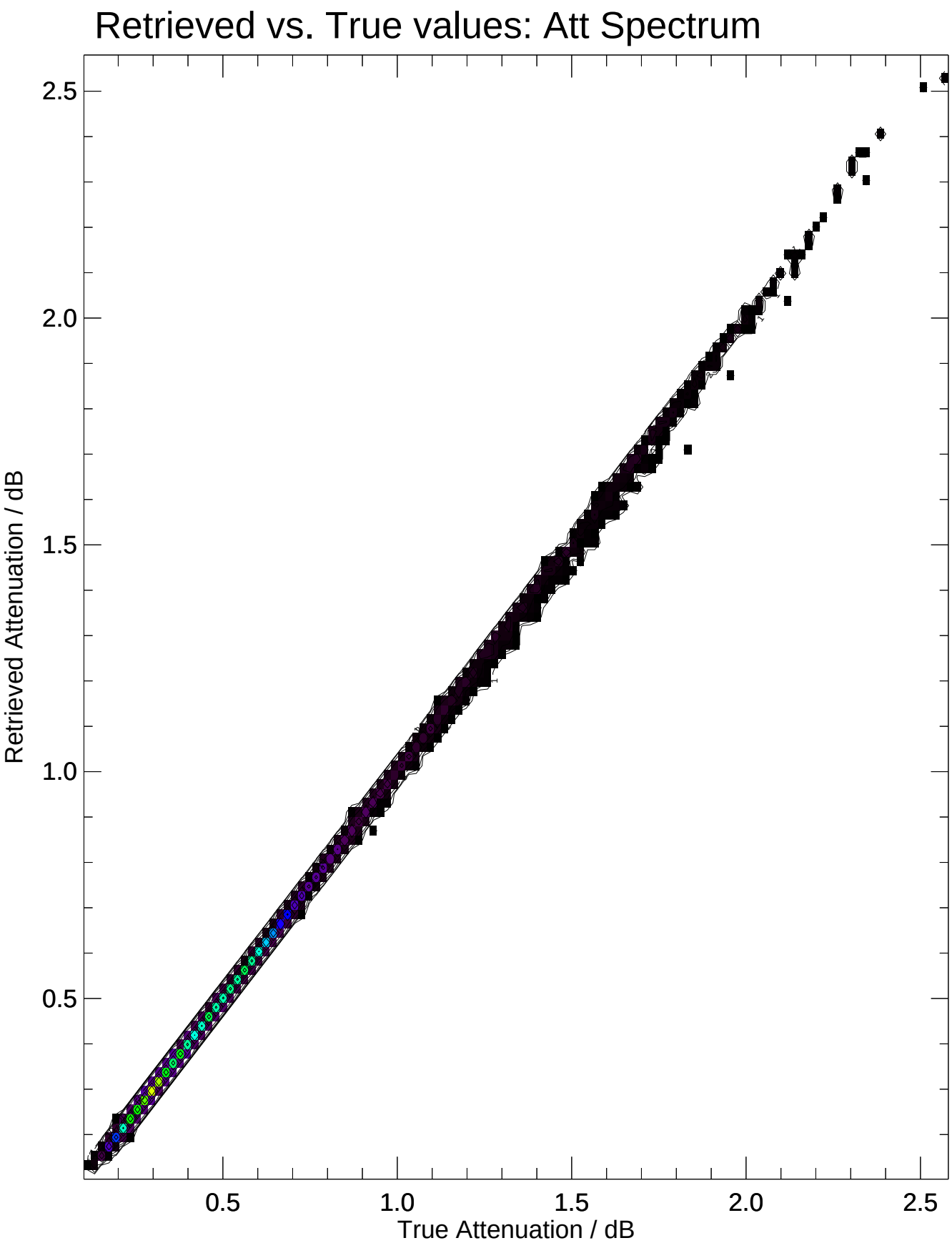

Relative Error (amplitude dependent)
F = 26.130 GHz
N=1281
N=2874
N=2165
N=1449
N=565
N=361
N=273
N=217
N=185
N=144
N=167
N=74
N=39
N=14
N=9
N=3
0.04
0.03
0.02
0.01
0.00
-0.01
0.5
1.0
1.5
2.0
2.5
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

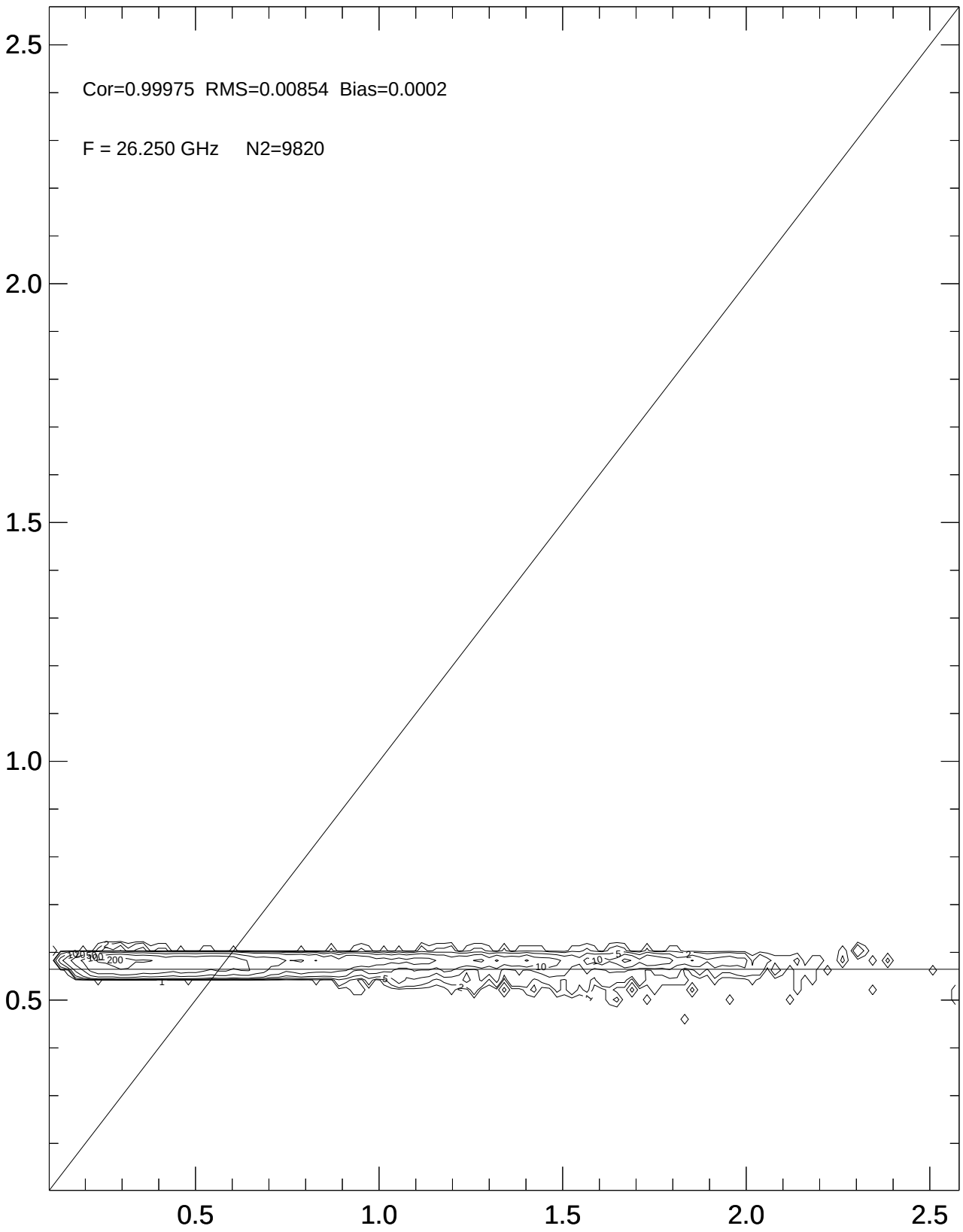

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5

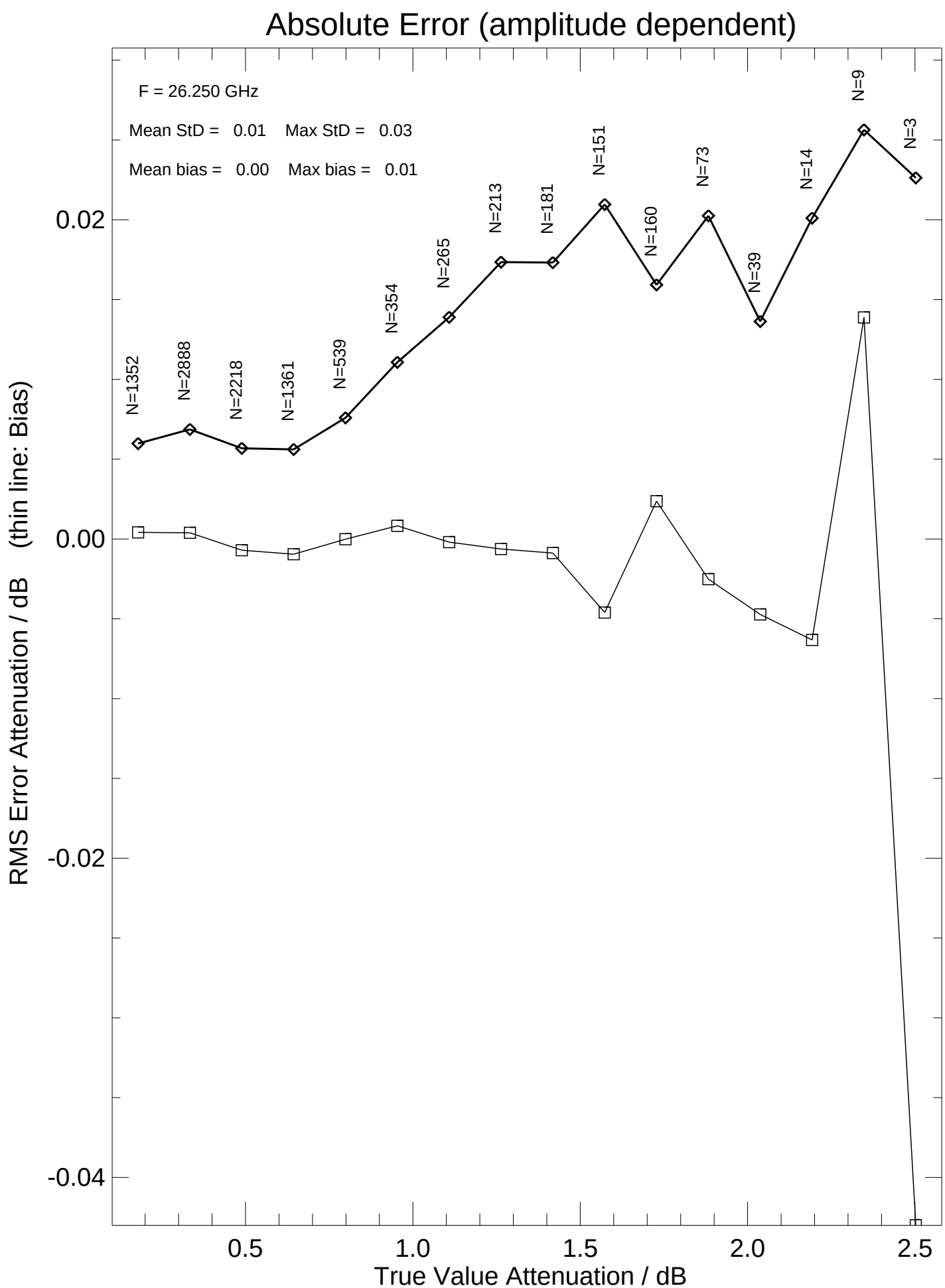

Cor=0.99975 RMS=0.00854 Bias=0.0002
F = 26.240 GHz N2=9820
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5

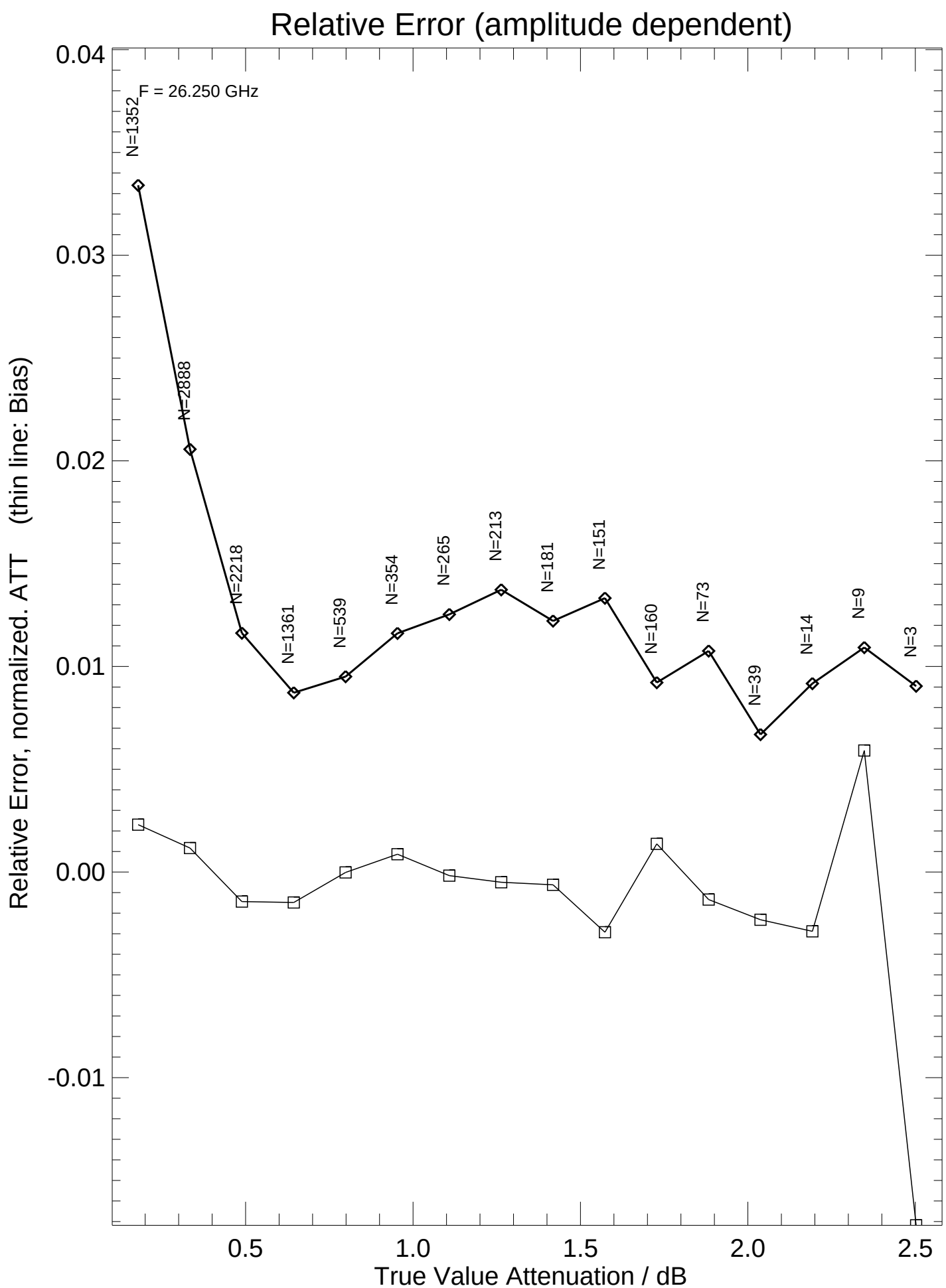

Absolute Error (amplitude dependent)
F = 26.240 GHz
Mean StD = 0.01 Max StD = 0.03
Mean bias = 0.00 Max bias = 0.01
N=1345
N=2881
N=2218
N=1370
N=544
N=353
N=265
N=213
N=182
N=150
N=161
N=73
N=39
N=14
N=9
N=3
0.02
0.00
-0.02
-0.04
RMS Error Attenuation / dB (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
True Value Attenuation / dB

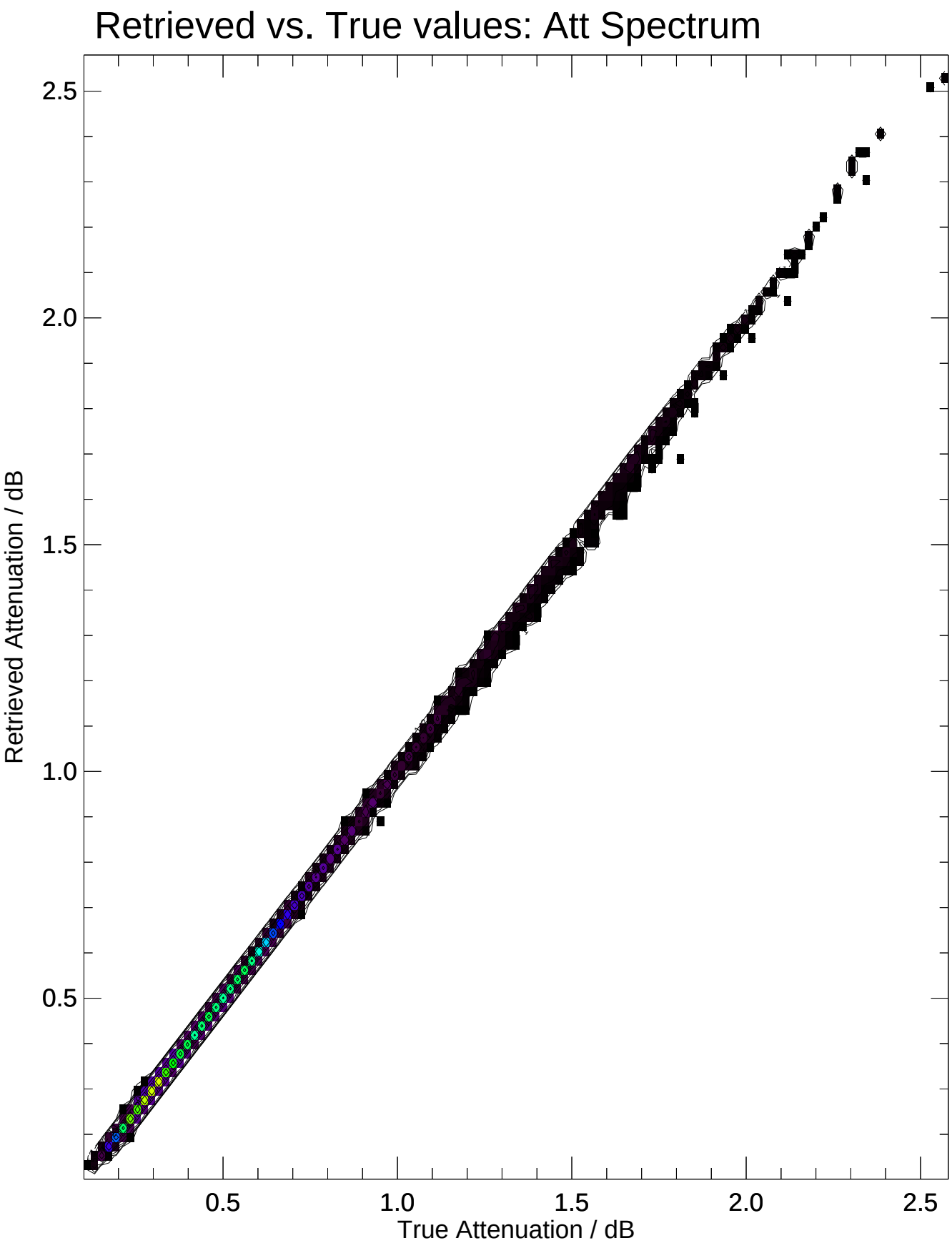

Relative Error (amplitude dependent)
F = 26.240 GHz
N=1345
N=2881
N=2218
N=1370
N=544
N=353
N=265
N=213
N=182
N=150
N=161
N=73
N=39
N=14
N=9
N=3
0.04
0.03
0.02
0.01
0.00
-0.01
0.5
1.0
1.5
2.0
2.5
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

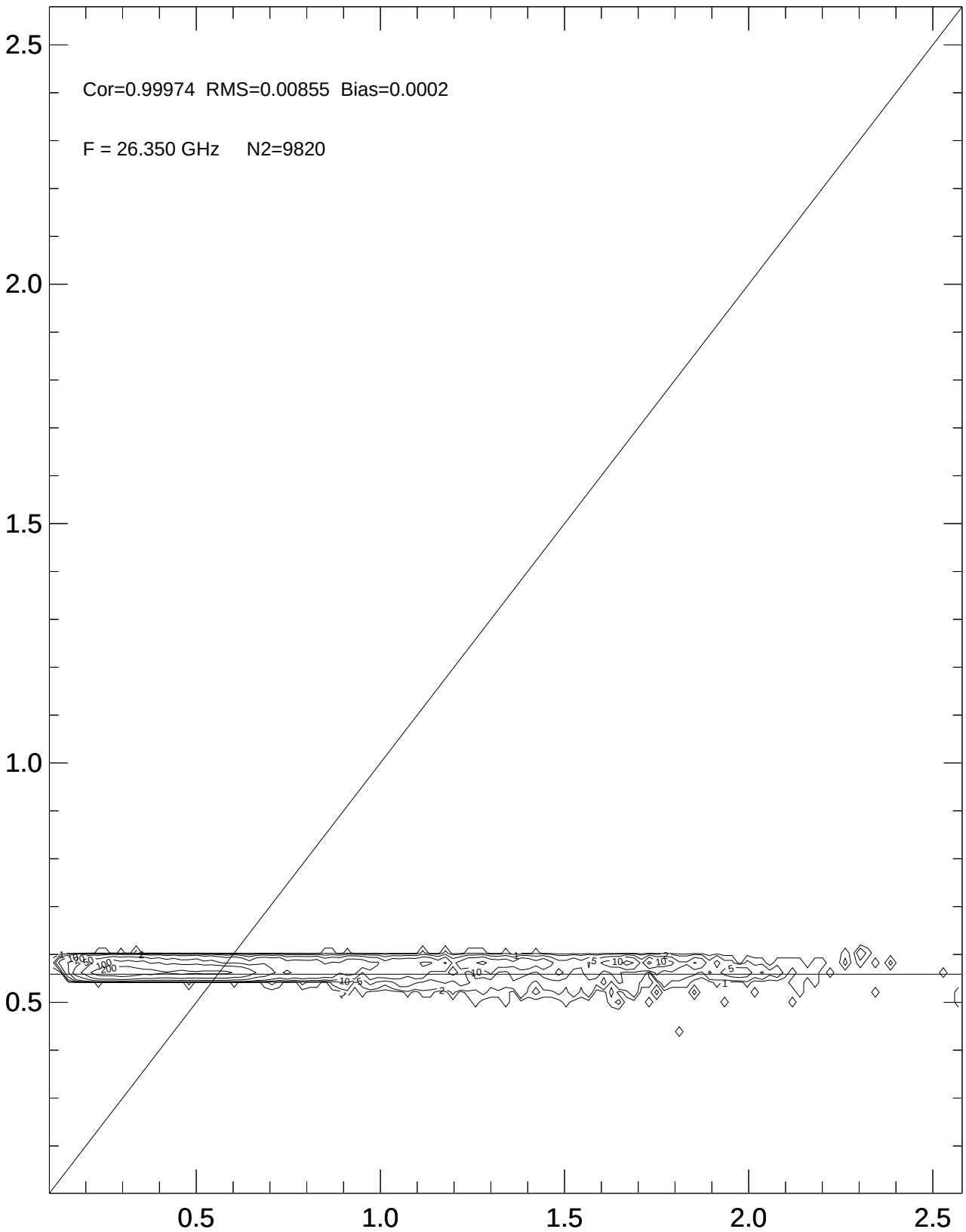

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5

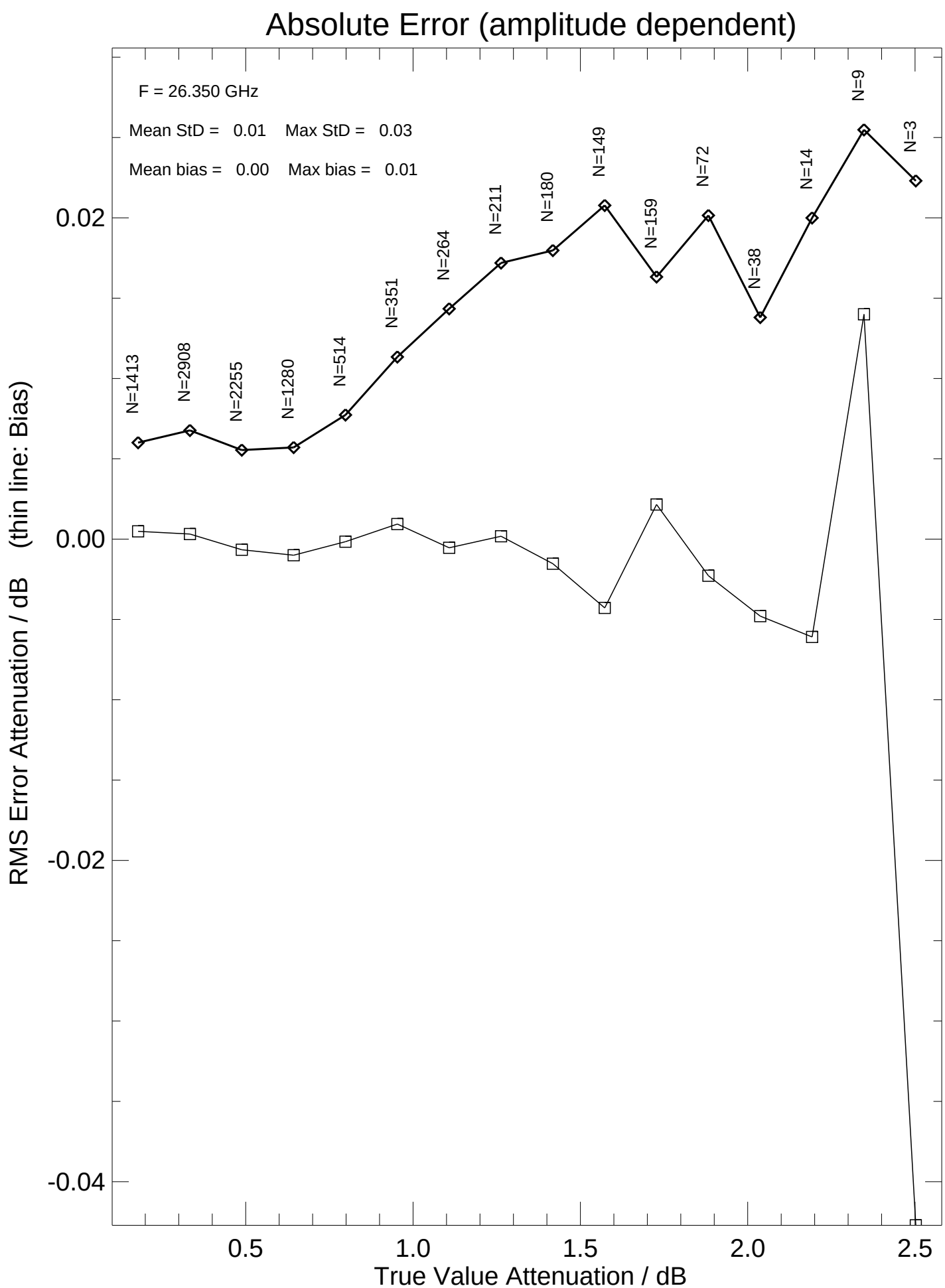

Cor=0.99975 RMS=0.00854 Bias=0.0002
F = 26.250 GHz N2=9820
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5

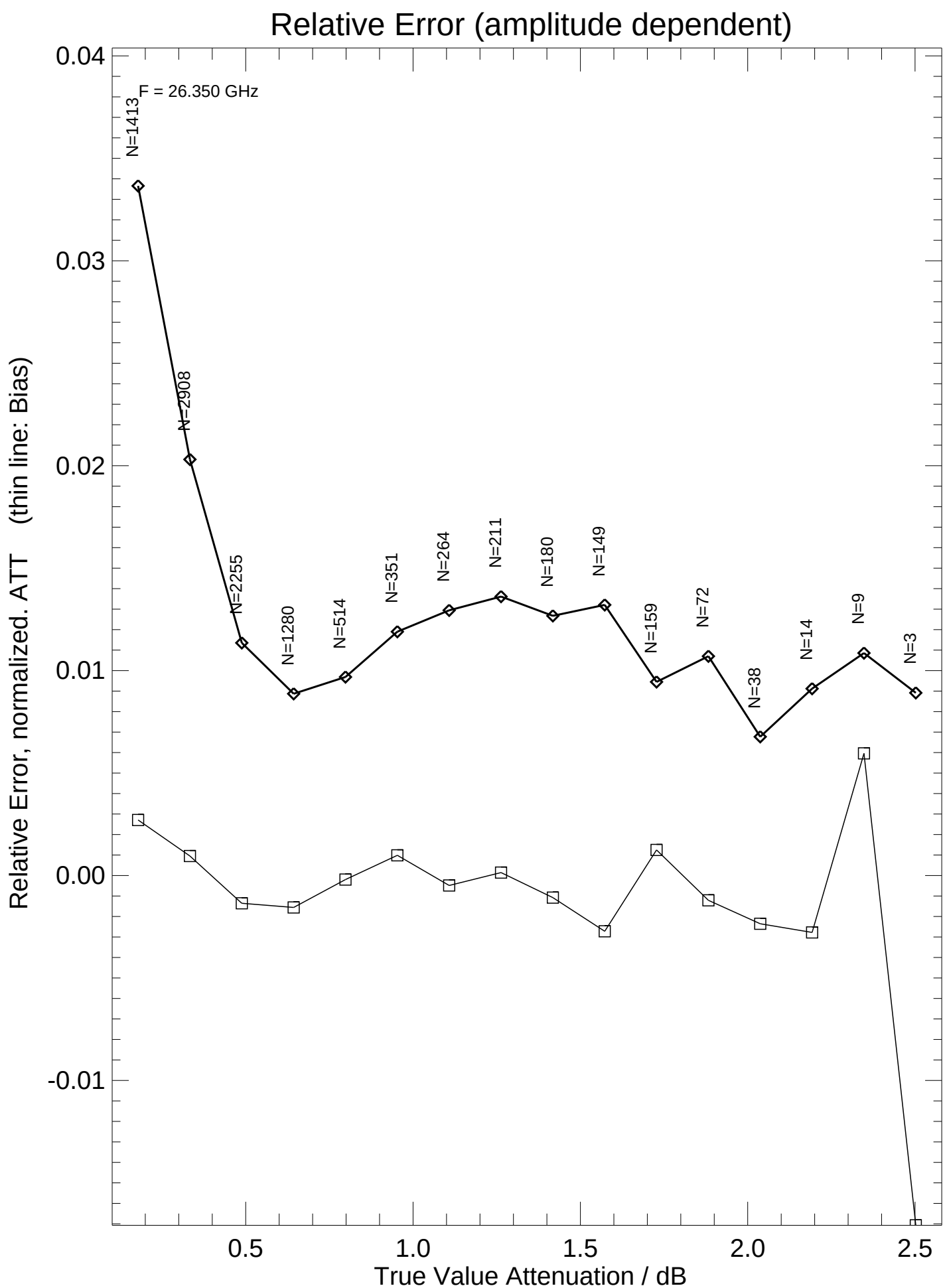

Absolute Error (amplitude dependent)
F = 26.250 GHz
Mean StD = 0.01 Max StD = 0.03
Mean bias = 0.00 Max bias = 0.01
N=1352
N=2888
N=2218
N=1361
N=539
N=354
N=265
N=213
N=181
N=151
N=160
N=73
N=39
N=14
N=9
N=3
0.02
0.00
-0.02
-0.04
RMS Error Attenuation / dB (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
True Value Attenuation / dB

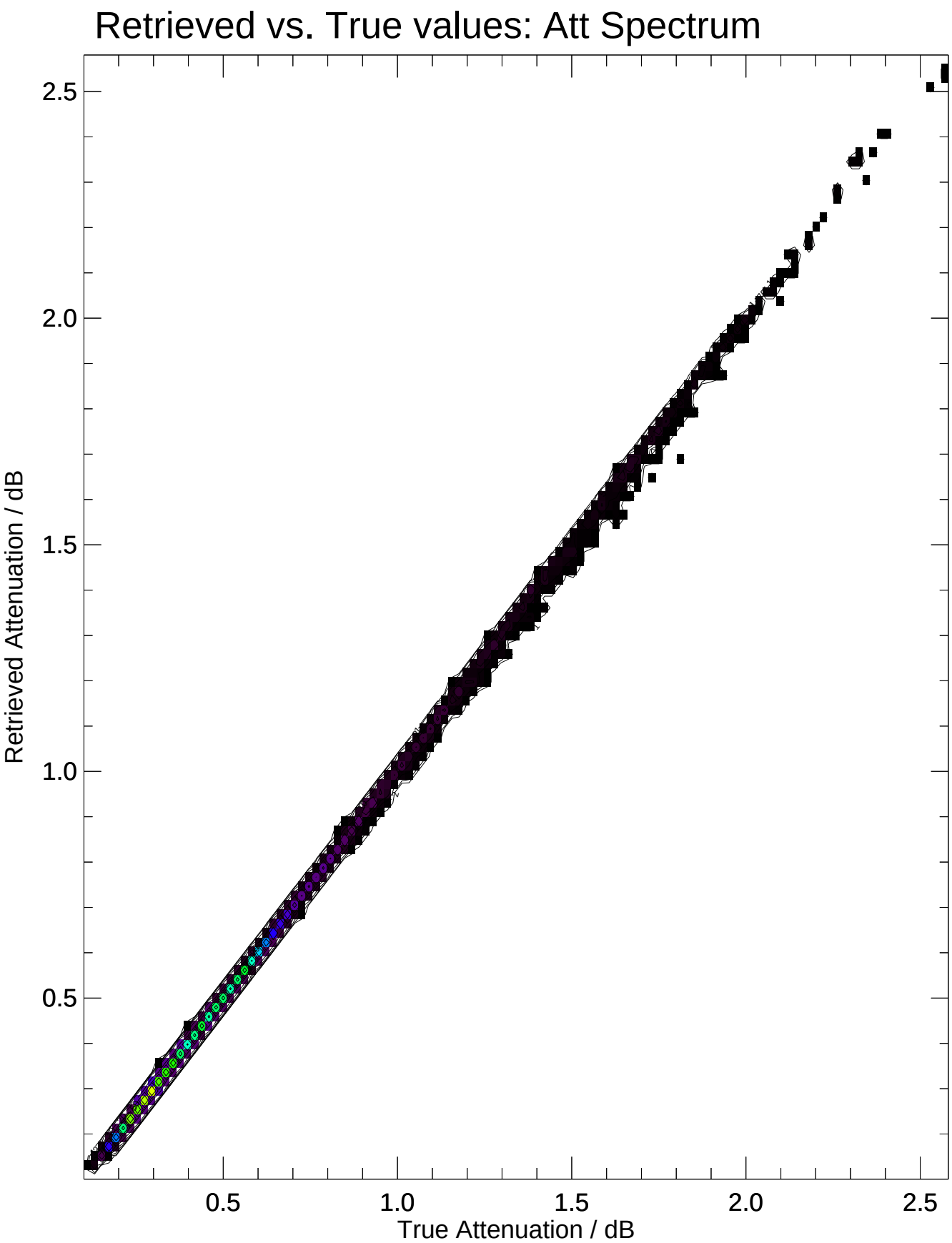

Relative Error (amplitude dependent)
F = 26.250 GHz
N=1352
N=2888
N=2218
N=1361
N=539
N=354
N=265
N=213
N=181
N=151
N=160
N=73
N=39
N=14
N=9
N=3
0.04
0.03
0.02
0.01
0.00
-0.01
0.5
1.0
1.5
2.0
2.5
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

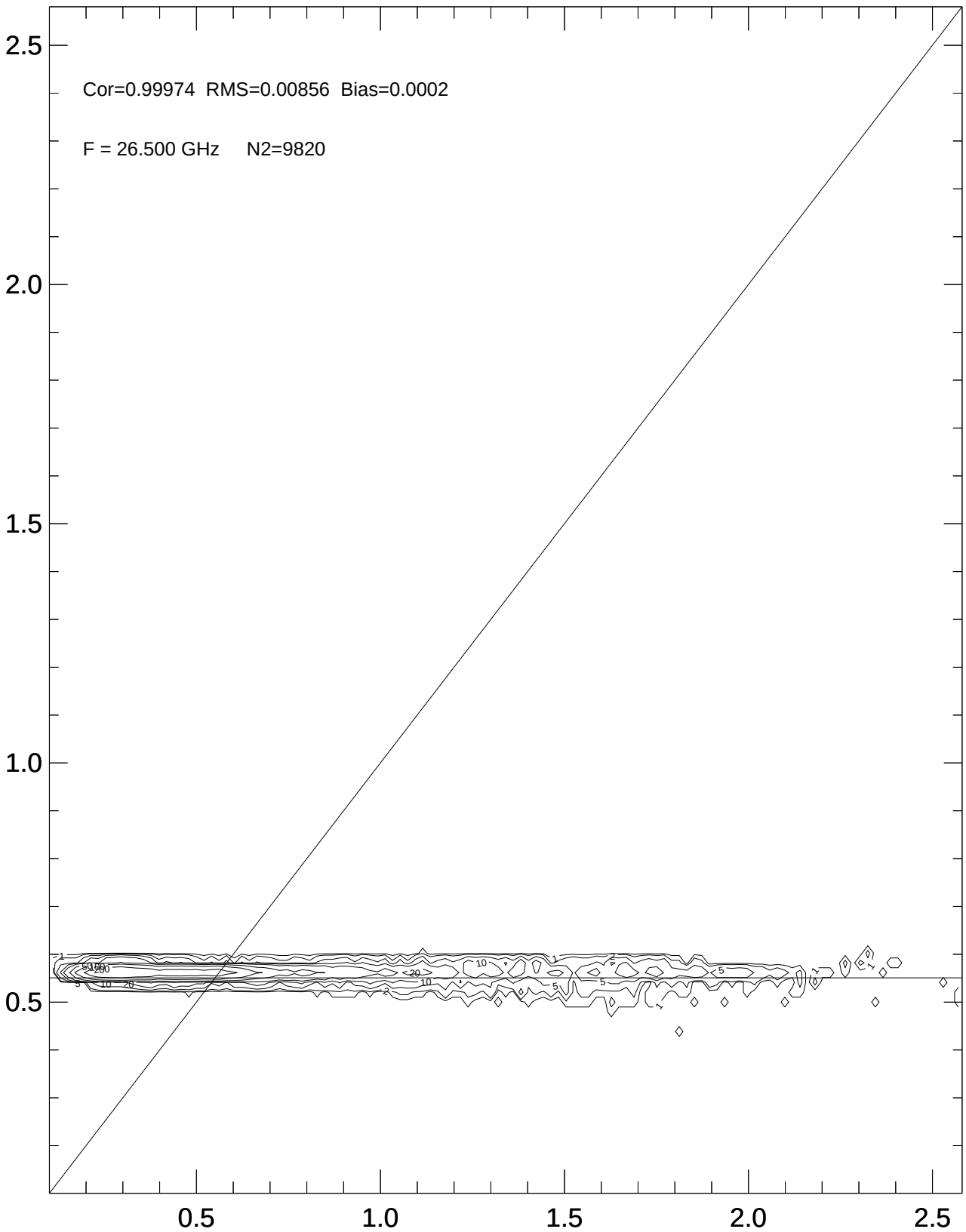

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5

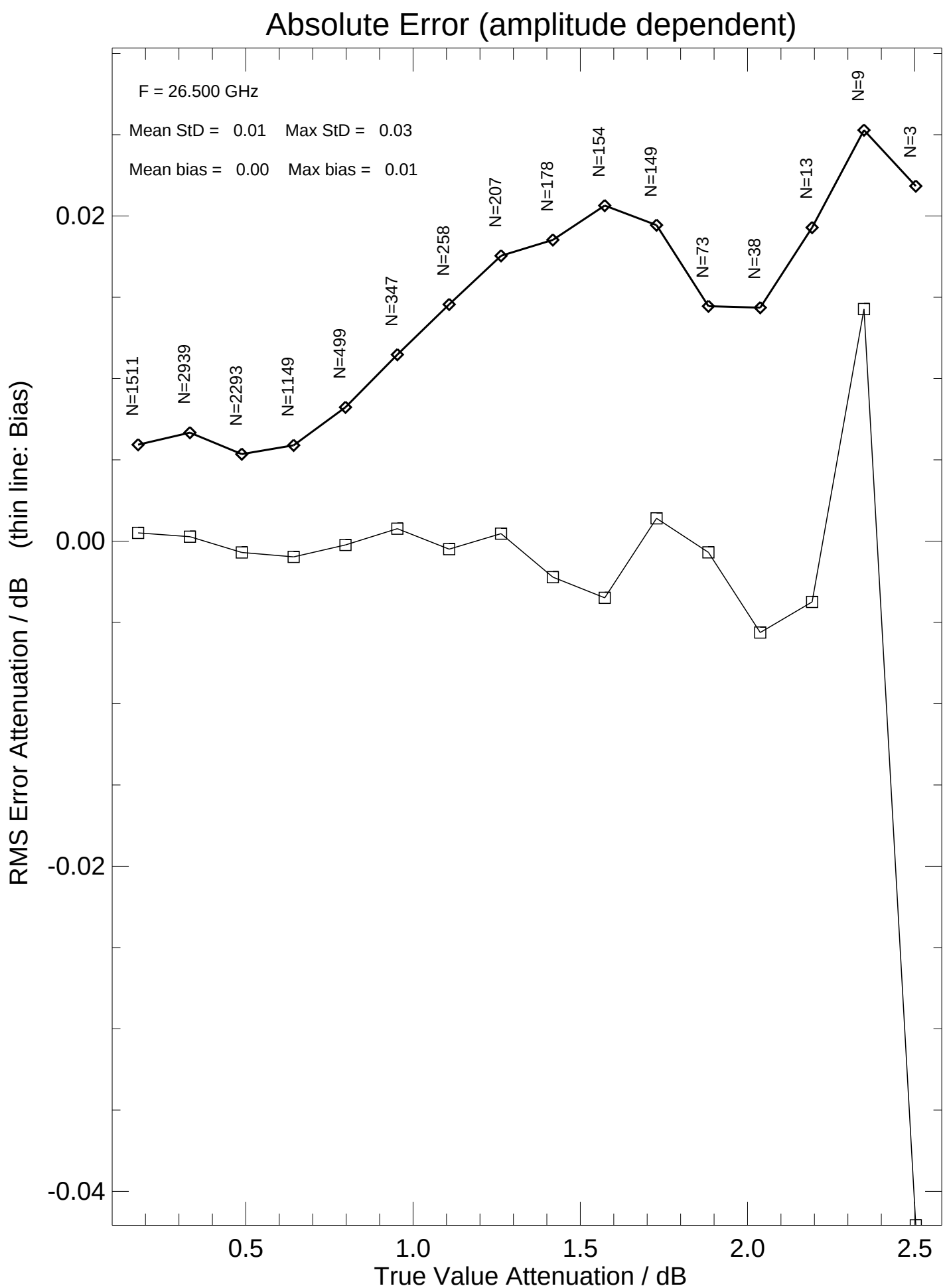

Cor=0.99974 RMS=0.00855 Bias=0.0002
F = 26.350 GHz N2=9820
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5

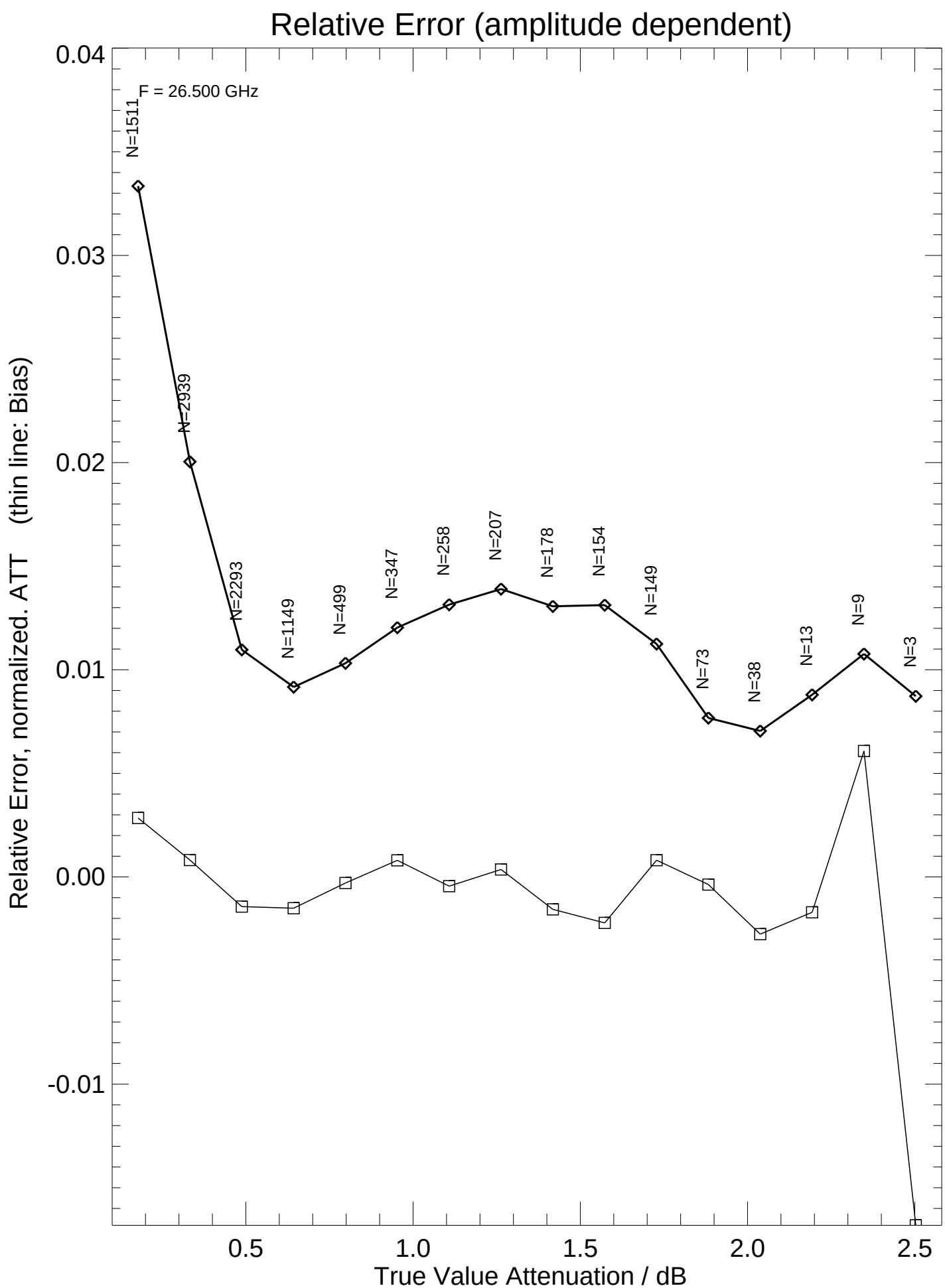

Absolute Error (amplitude dependent)
F = 26.350 GHz
Mean StD = 0.01 Max StD = 0.03
Mean bias = 0.00 Max bias = 0.01
N=1413
N=2908
N=2255
N=1280
N=514
N=351
N=264
N=211
N=180
N=149
N=159
N=72
N=38
N=14
N=9
N=3
0.02
0.00
-0.02
-0.04
RMS Error Attenuation / dB (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
True Value Attenuation / dB

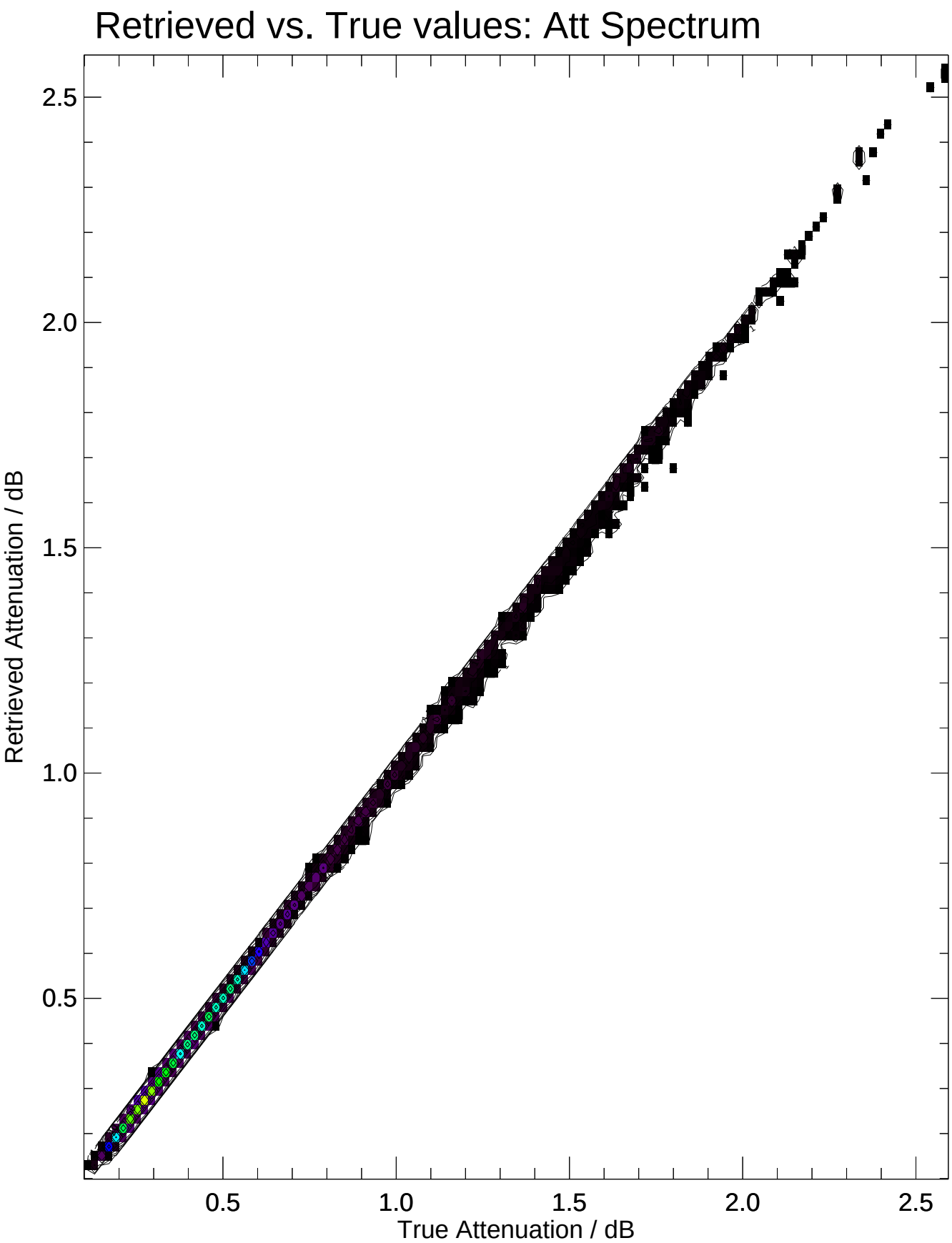

Relative Error (amplitude dependent)
F = 26.350 GHz
N=1413
N=2908
N=2255
N=1280
N=514
N=351
N=264
N=211
N=180
N=149
N=159
N=72
N=38
N=14
N=9
N=3
0.04
0.03
0.02
0.01
0.00
-0.01
0.5
1.0
1.5
2.0
2.5
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

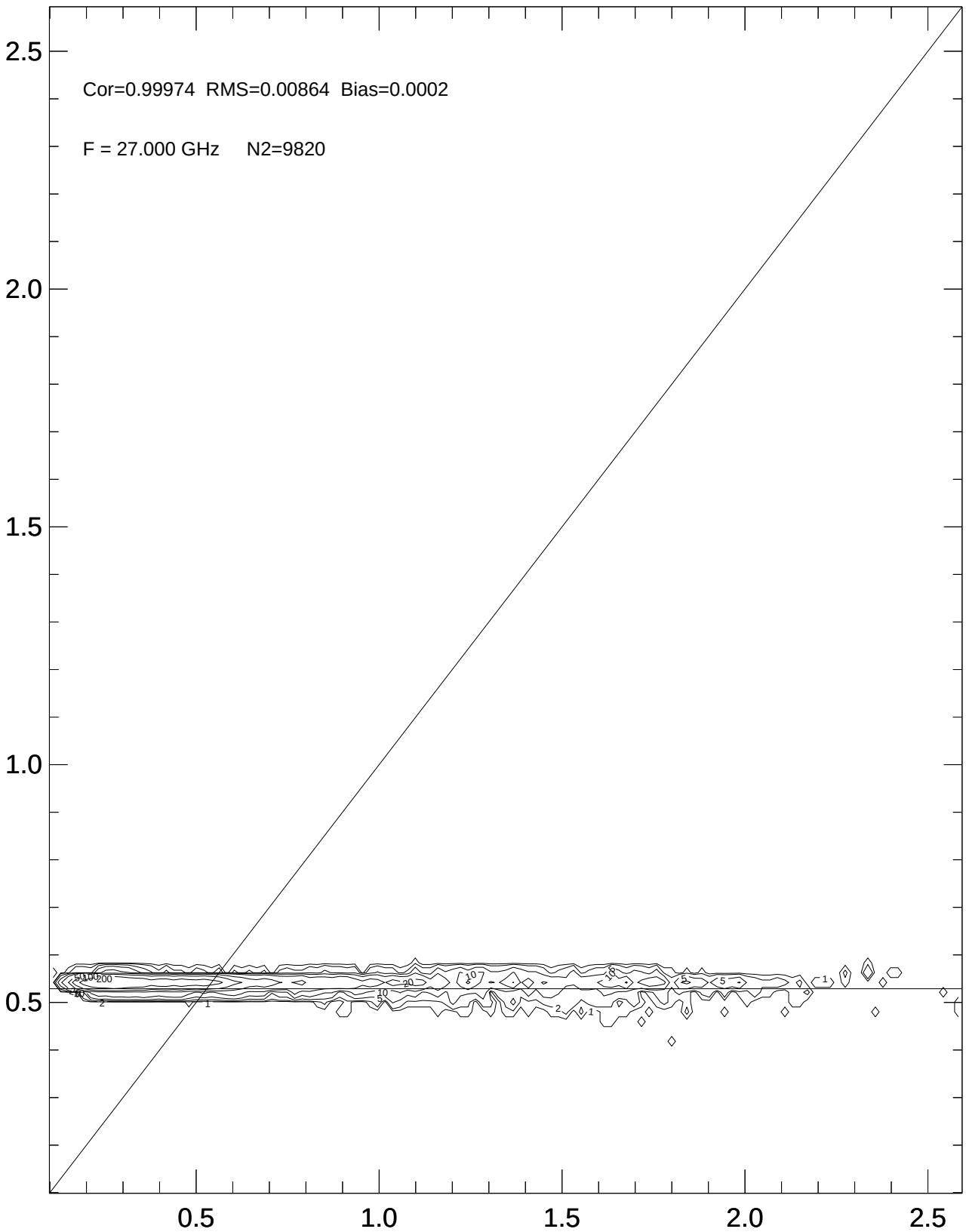

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5

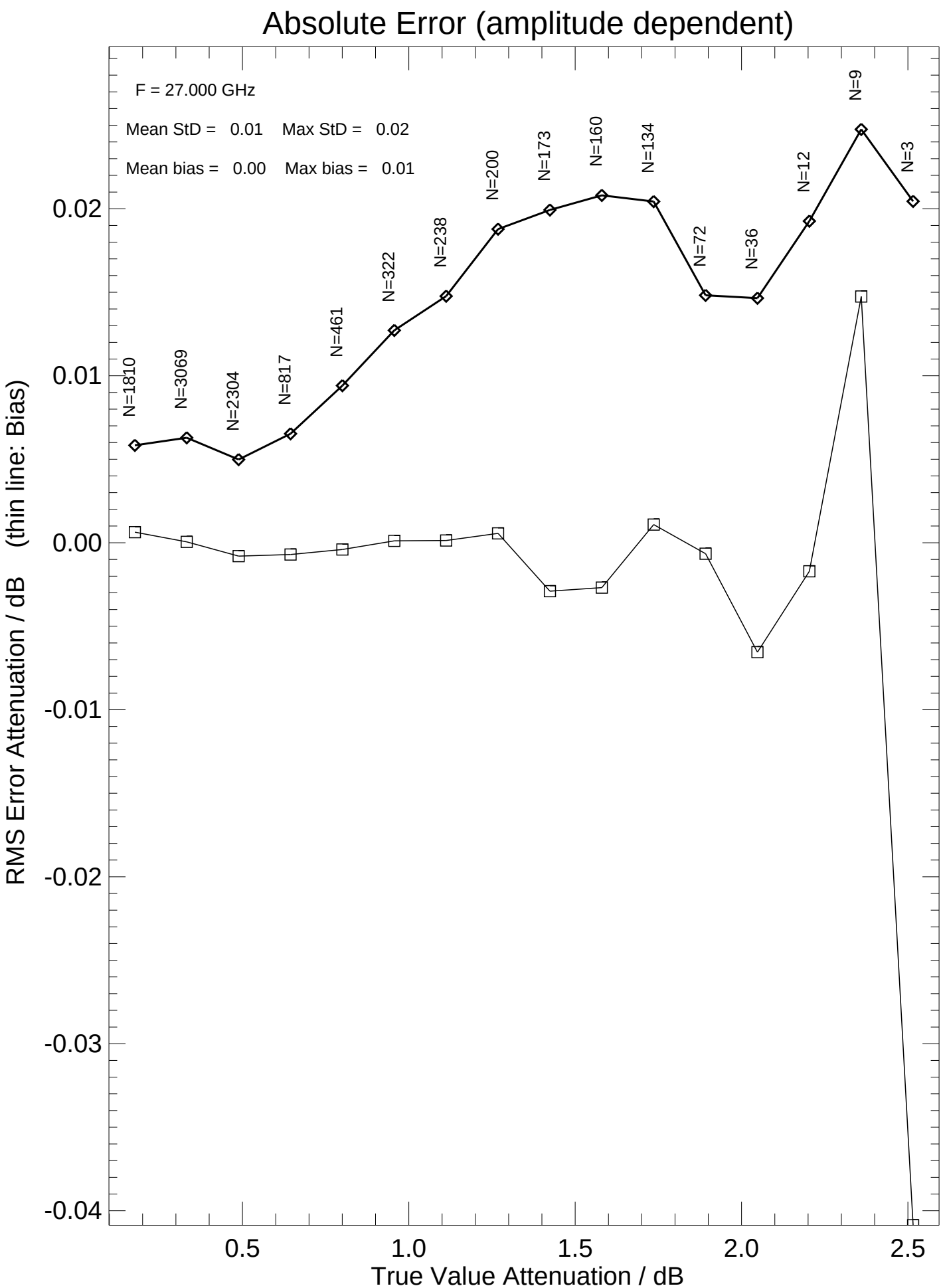

Cor=0.99974 RMS=0.00856 Bias=0.0002
F = 26.500 GHz N2=9820
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5

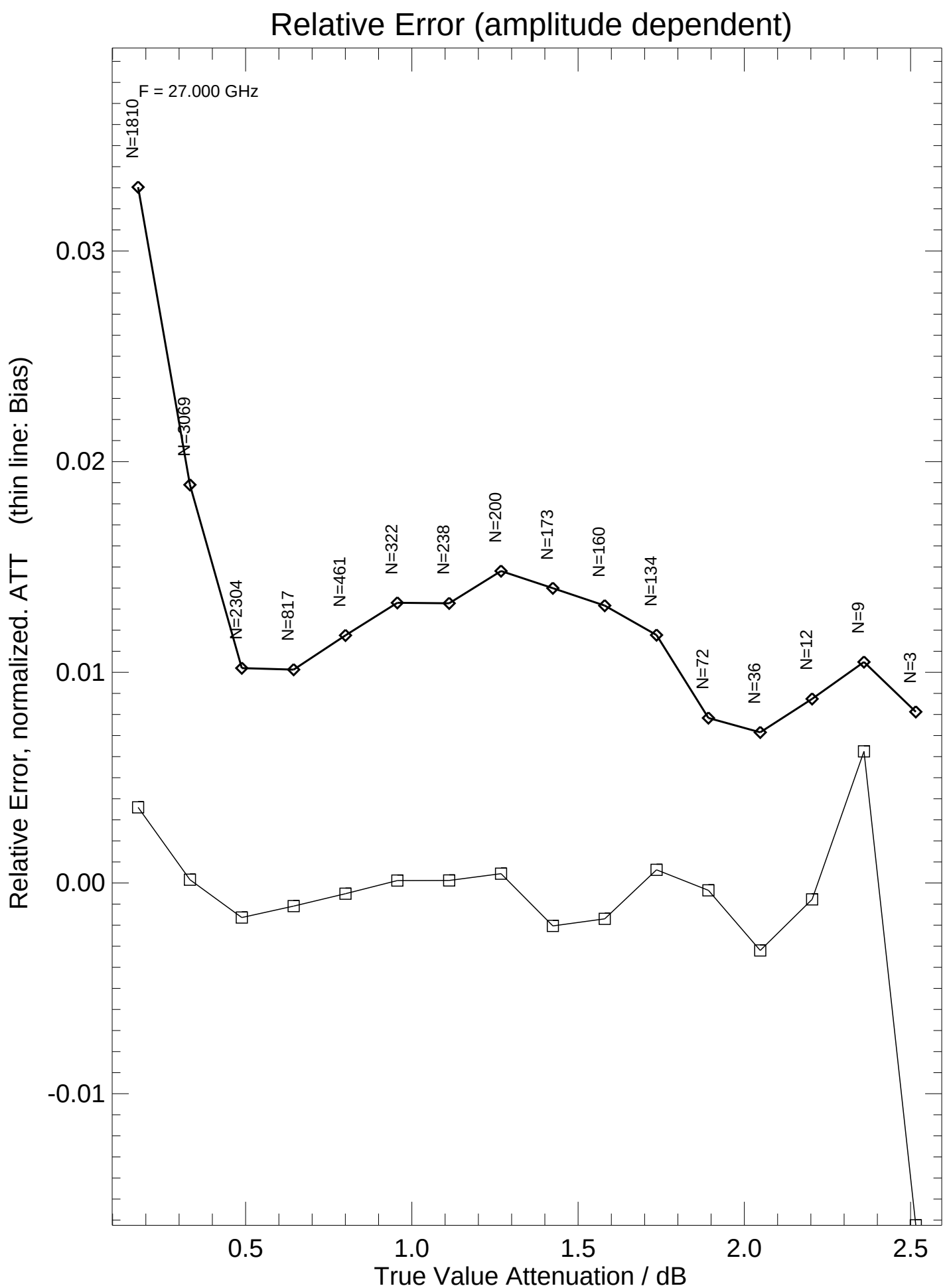

Absolute Error (amplitude dependent)
F = 26.500 GHz
Mean StD = 0.01 Max StD = 0.03
Mean bias = 0.00 Max bias = 0.01
N=1511
N=2939
N=2293
N=1149
N=499
N=347
N=258
N=207
N=178
N=154
N=149
N=73
N=38
N=13
N=9
N=3
0.02
0.00
-0.02
-0.04
0.5
1.0
1.5
2.0
2.5
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

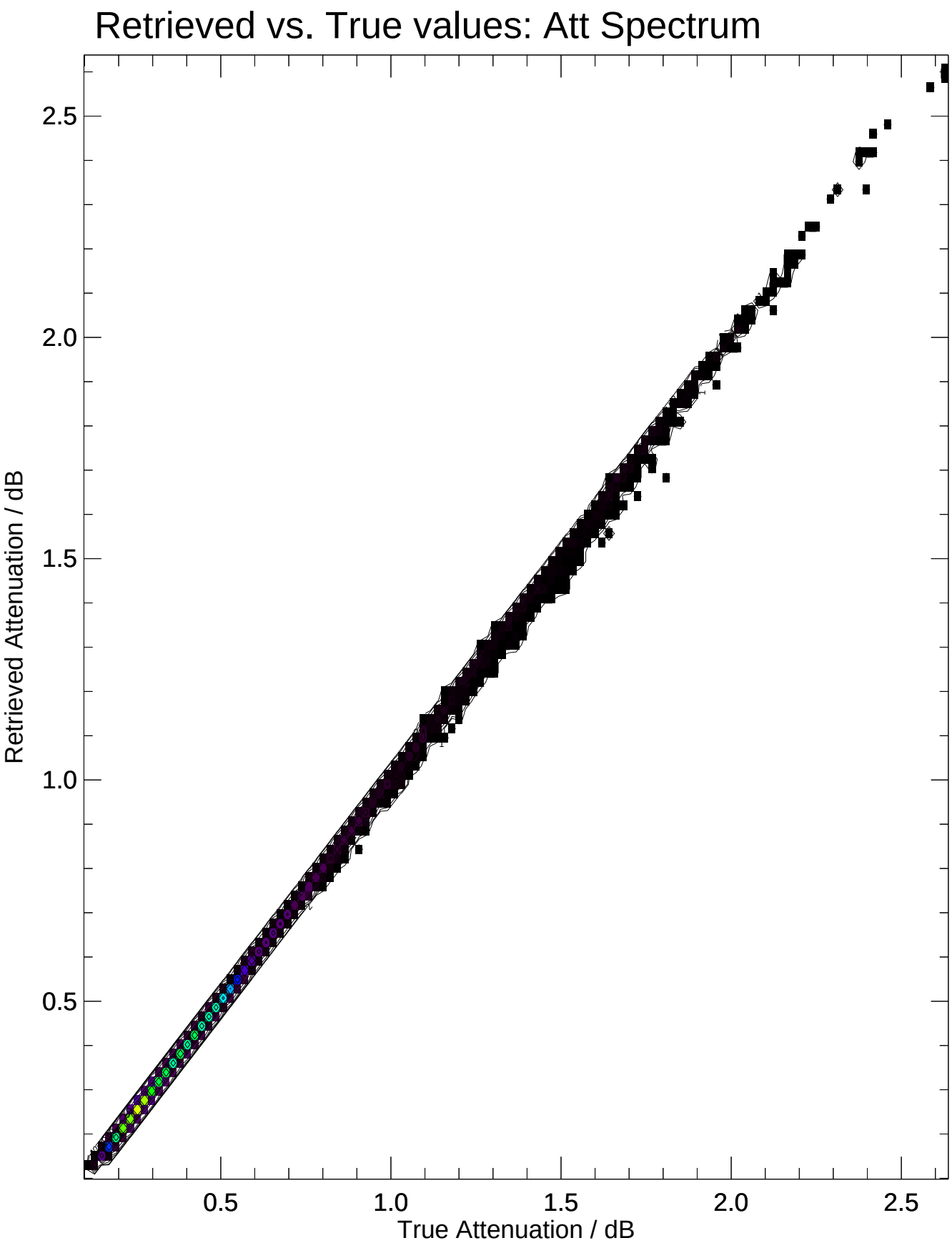

Relative Error (amplitude dependent)
F = 26.500 GHz
N=1511
N=2939
N=2293
N=1149
N=499
N=347
N=258
N=207
N=178
N=154
N=149
N=73
N=38
N=13
N=9
N=3
0.04
0.03
0.02
0.01
0.00
-0.01
0.5
1.0
1.5
2.0
2.5
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

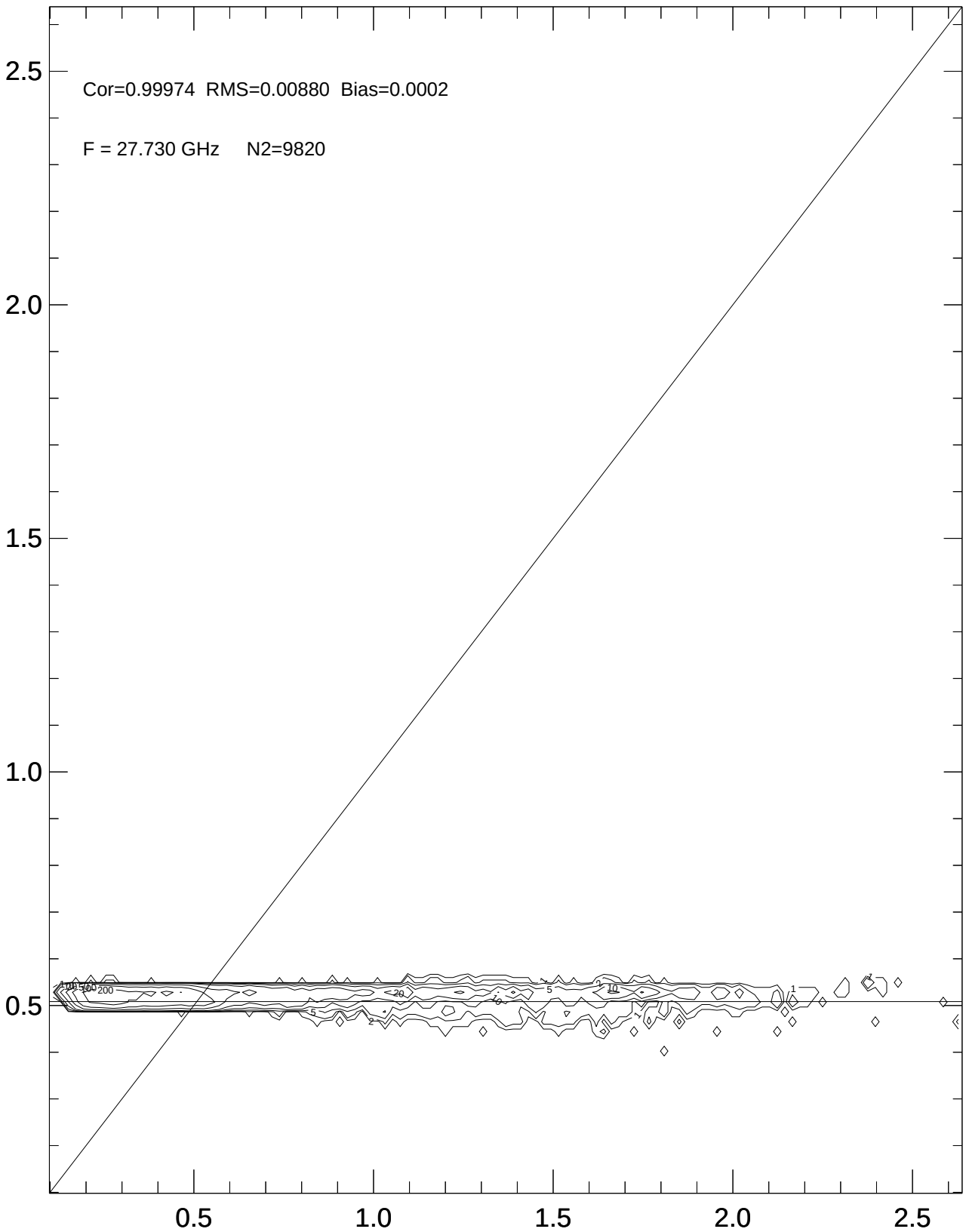

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5

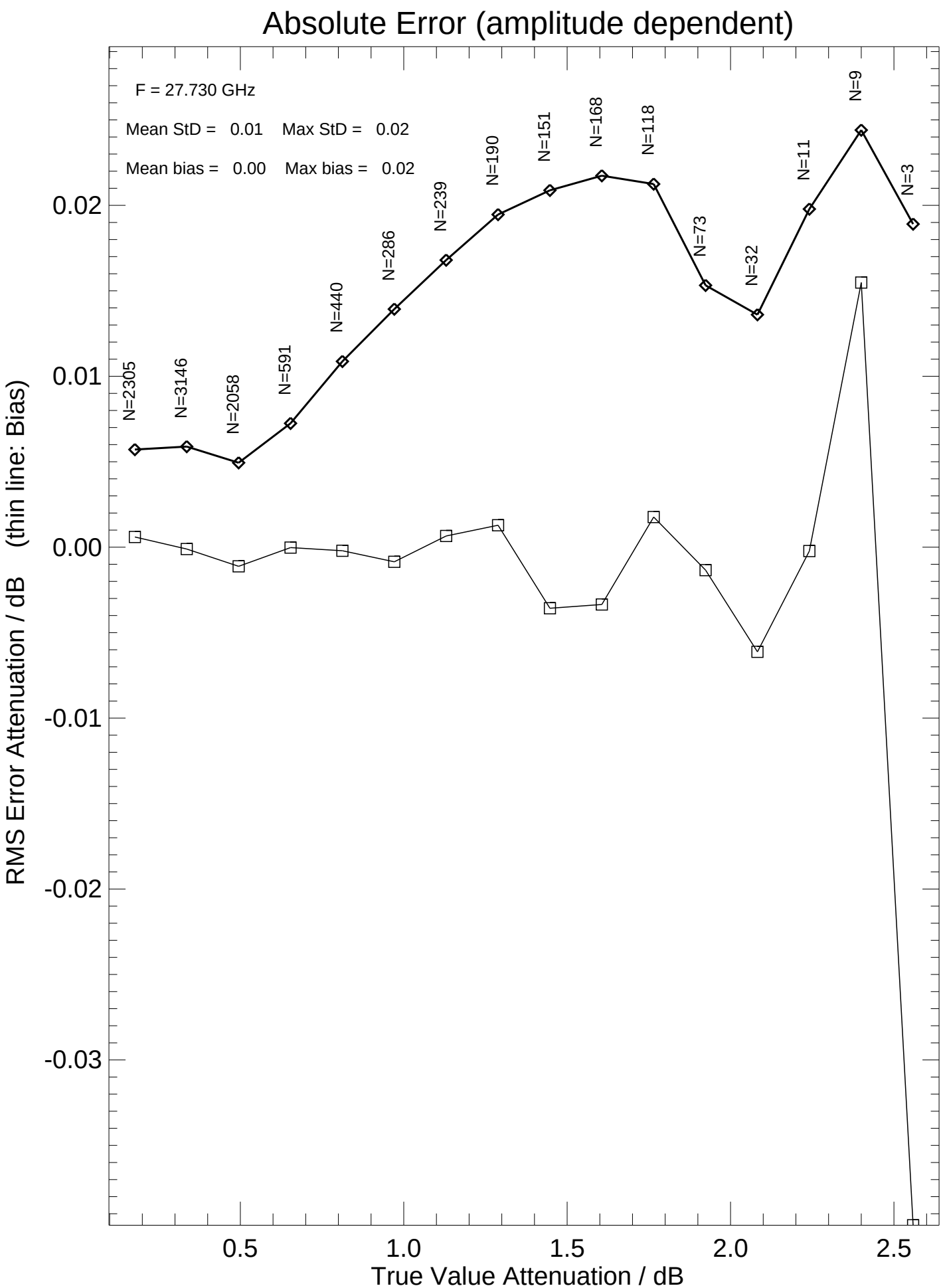

Cor=0.99974 RMS=0.00864 Bias=0.0002
F = 27.000 GHz N2=9820
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5

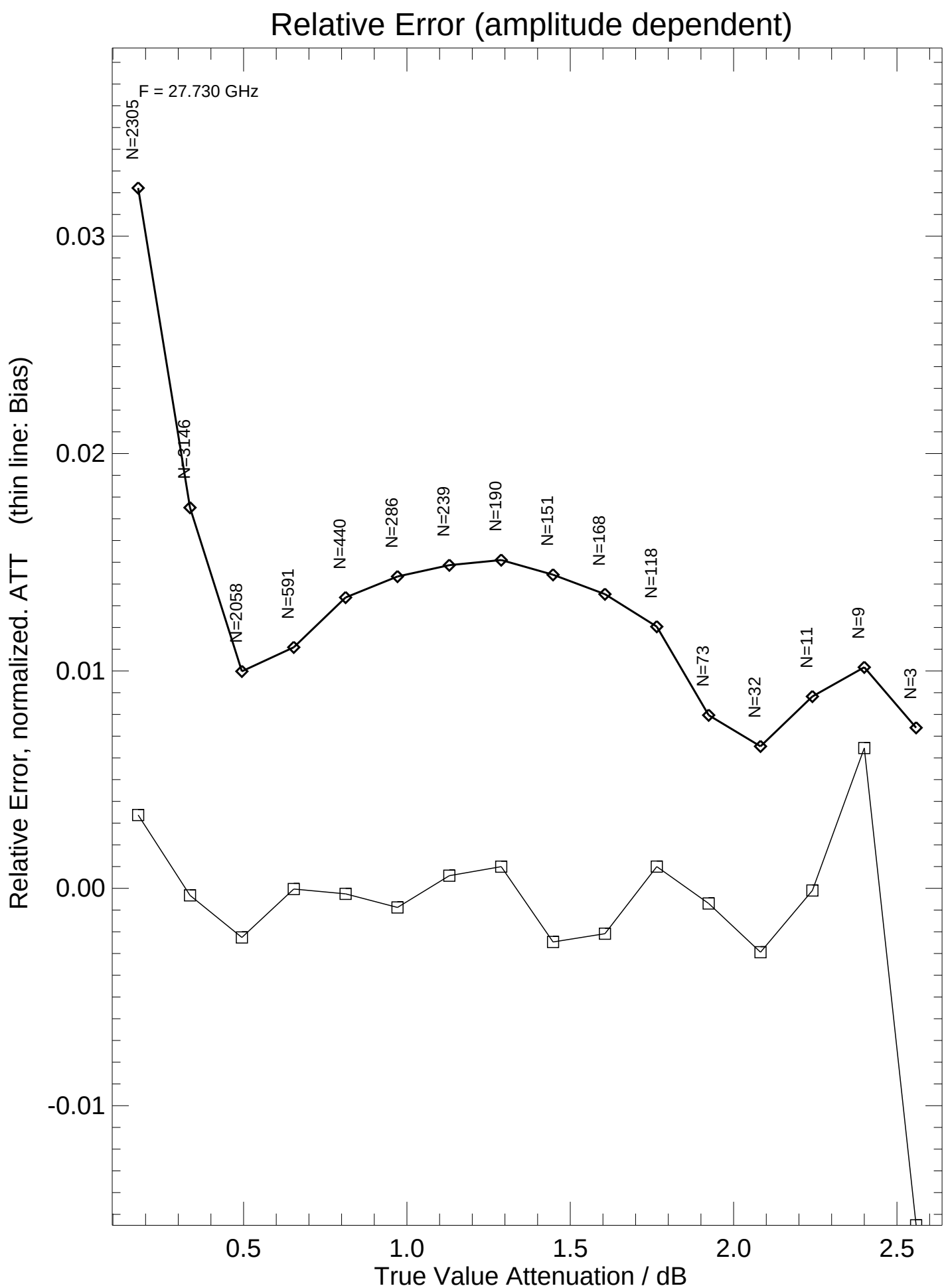

Absolute Error (amplitude dependent)
F = 27.000 GHz
Mean StD = 0.01 Max StD = 0.02
Mean bias = 0.00 Max bias = 0.01
N=1810
N=3069
N=2304
N=817
N=461
N=322
N=238
N=200
N=173
N=160
N=134
N=72
N=36
N=12
N=9
N=3
0.02
0.01
0.00
-0.01
-0.02
-0.03
-0.04
RMS Error Attenuation / dB (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
True Value Attenuation / dB

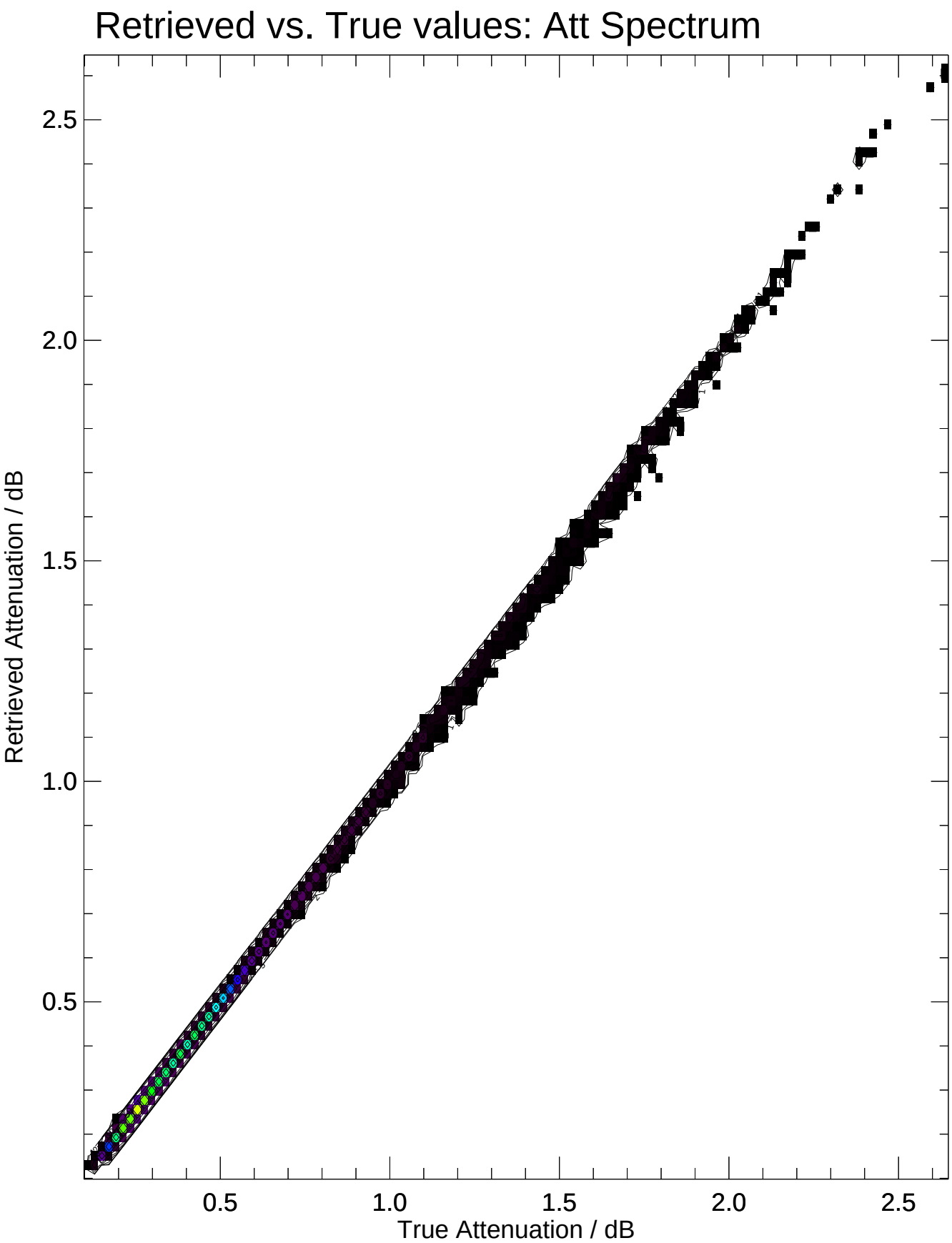

Relative Error (amplitude dependent)
F = 27.000 GHz
N=1810
N=3069
N=2304
N=817
N=461
N=322
N=238
N=200
N=173
N=160
N=134
N=72
N=36
N=12
N=9
N=3
0.03
0.02
0.01
0.00
-0.01
0.5
1.0
1.5
2.0
2.5
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

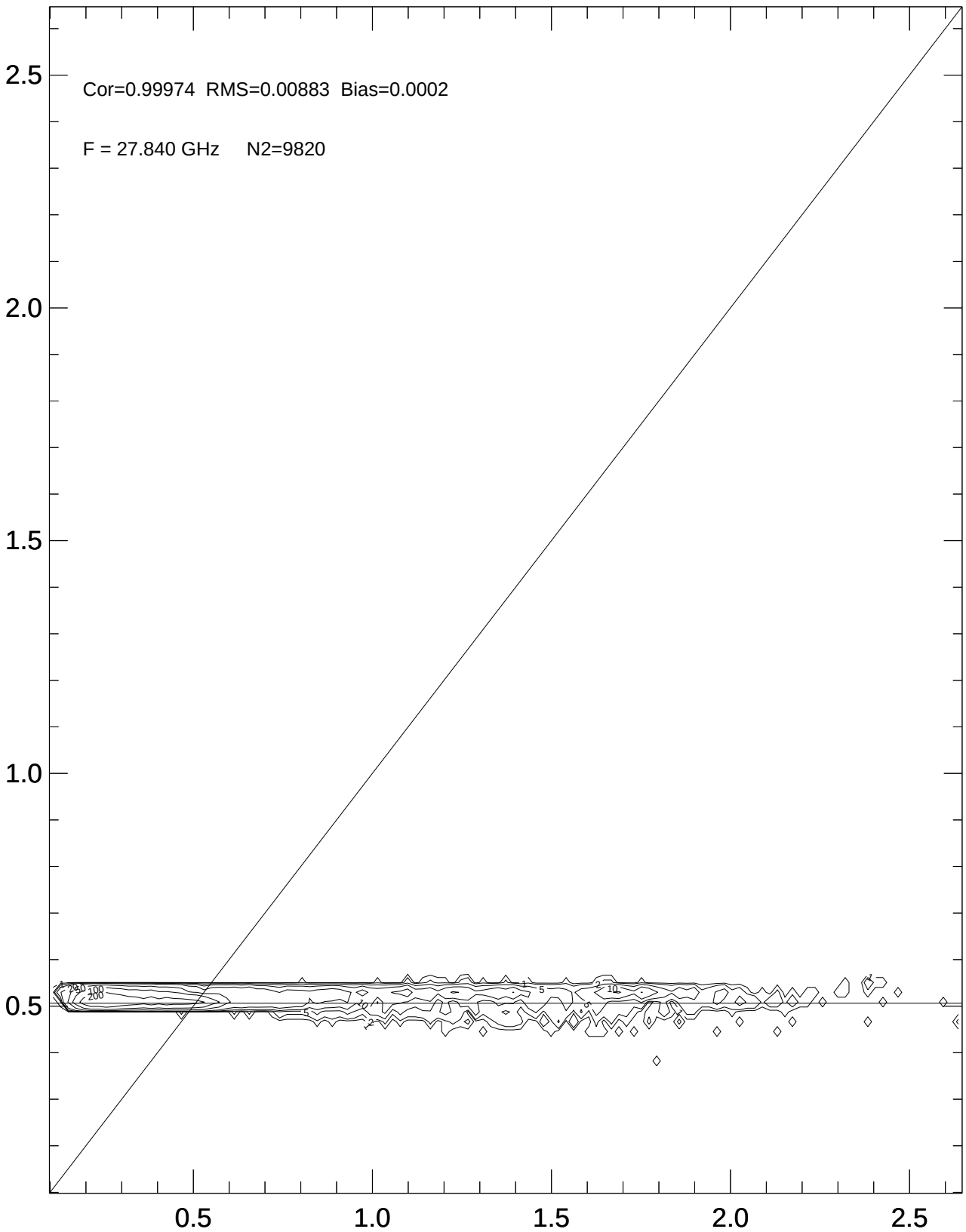

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5

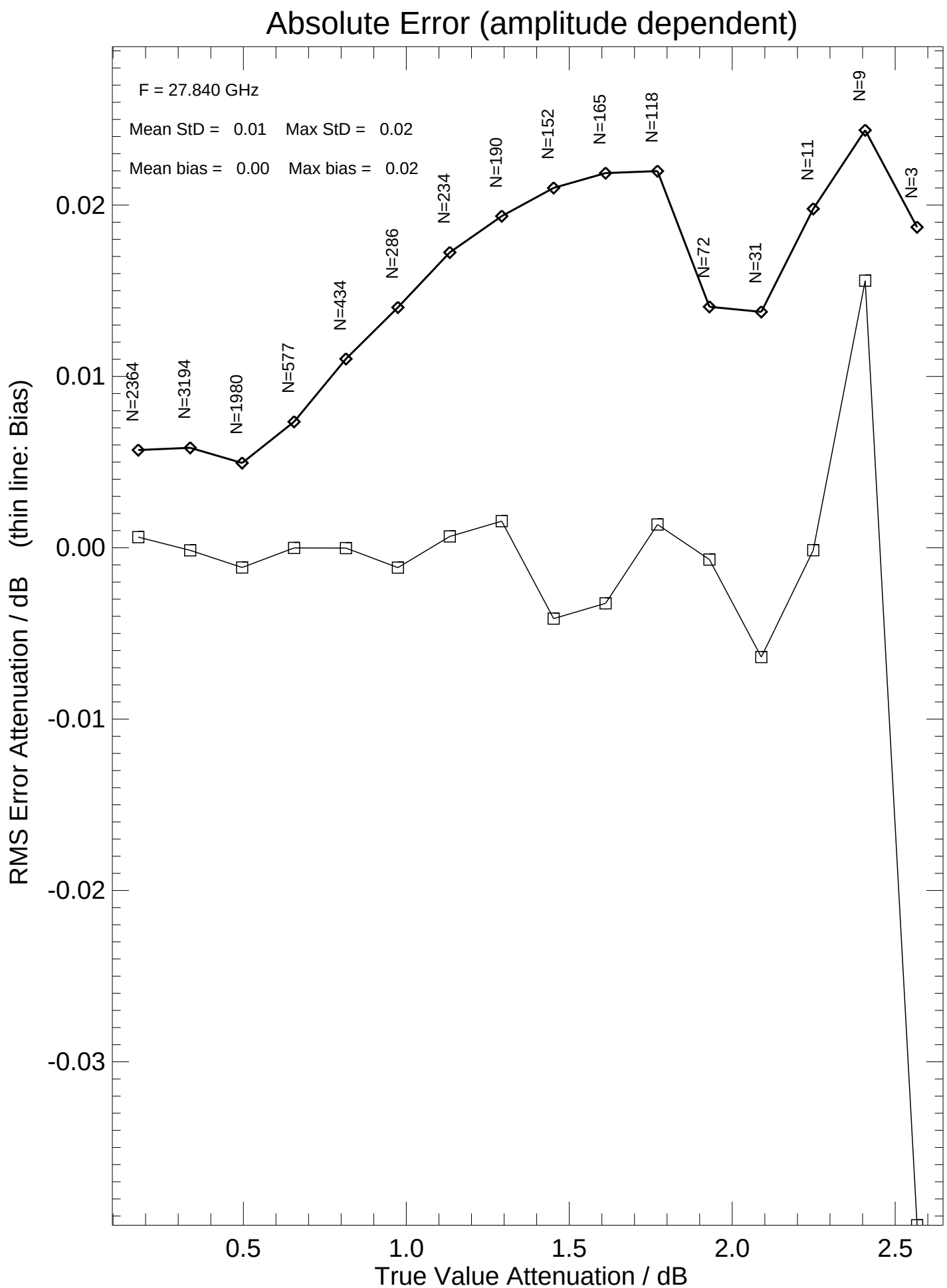

Cor=0.99974 RMS=0.00880 Bias=0.0002
F = 27.730 GHz N2=9820
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5

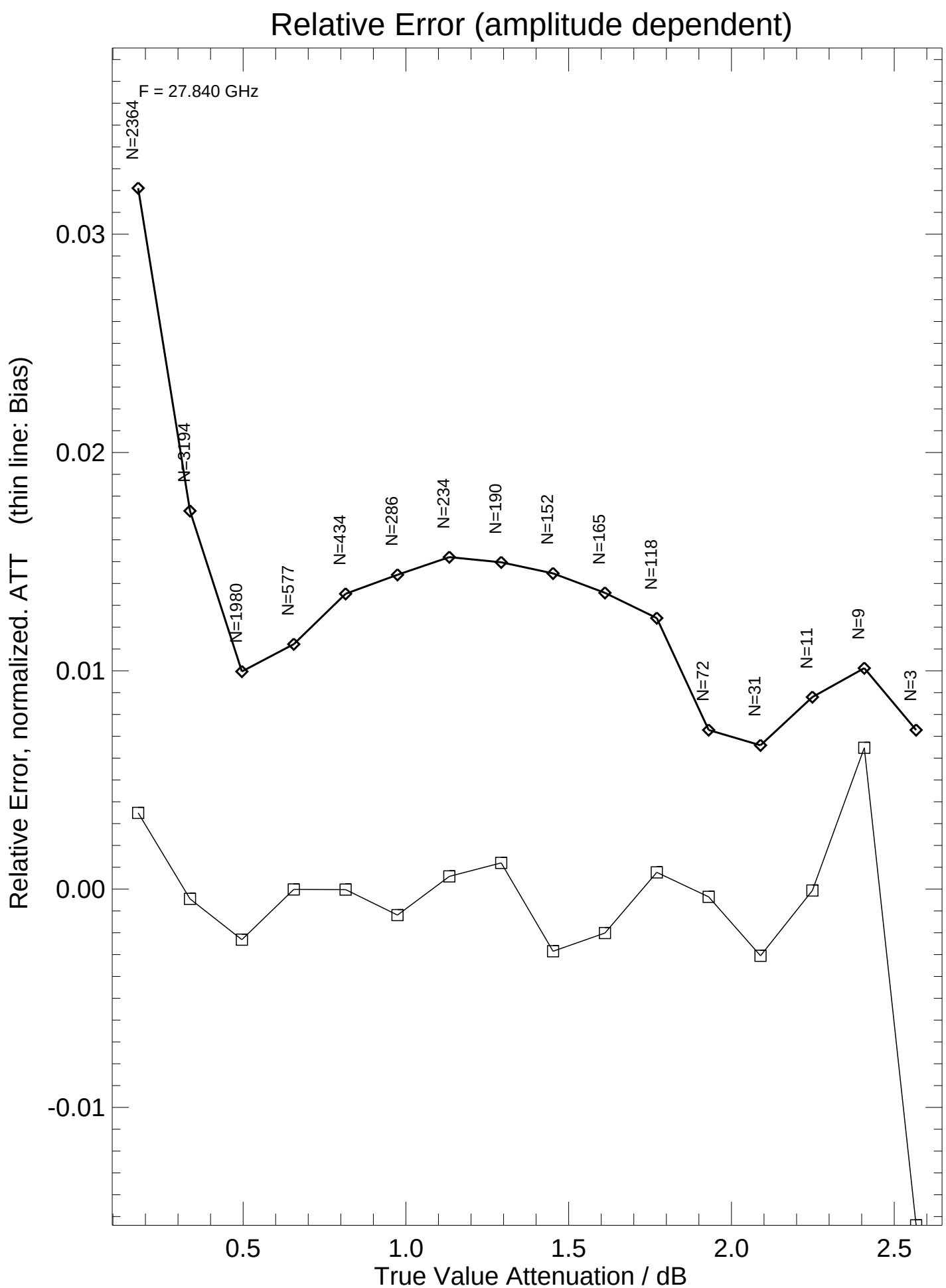

Absolute Error (amplitude dependent)
F = 27.730 GHz
Mean StD = 0.01 Max StD = 0.02
Mean bias = 0.00 Max bias = 0.02
N=2305
N=3146
N=2058
N=591
N=440
N=286
N=239
N=190
N=151
N=168
N=118
N=73
N=32
N=11
N=9
N=3
0.02
0.01
0.00
-0.01
-0.02
-0.03
RMS Error Attenuation / dB (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
True Value Attenuation / dB

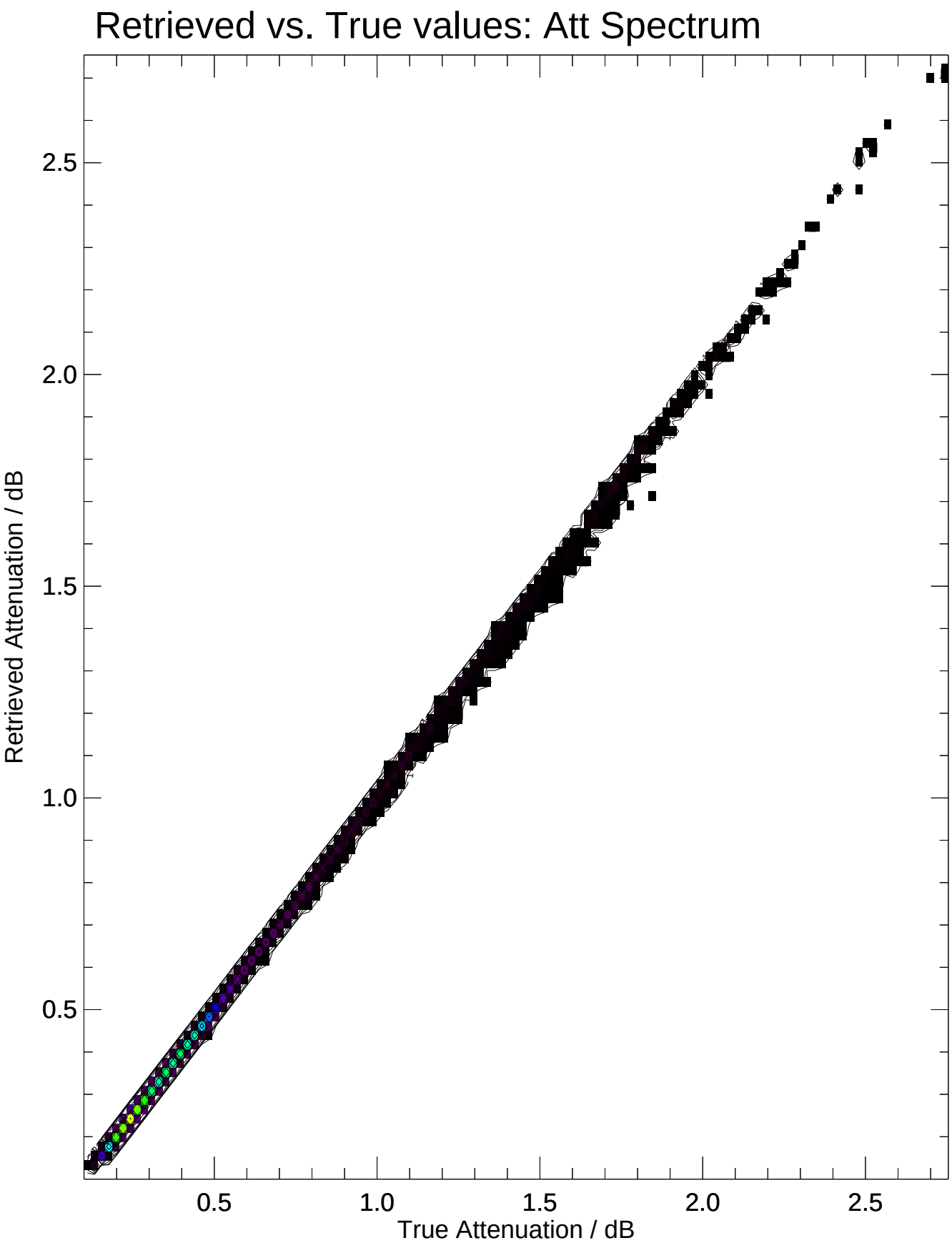

Relative Error (amplitude dependent)
F = 27.730 GHz
N=2305
N=3146
N=2058
N=591
N=440
N=286
N=239
N=190
N=151
N=168
N=118
N=73
N=32
N=11
N=9
N=3
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
True Value Attenuation / dB

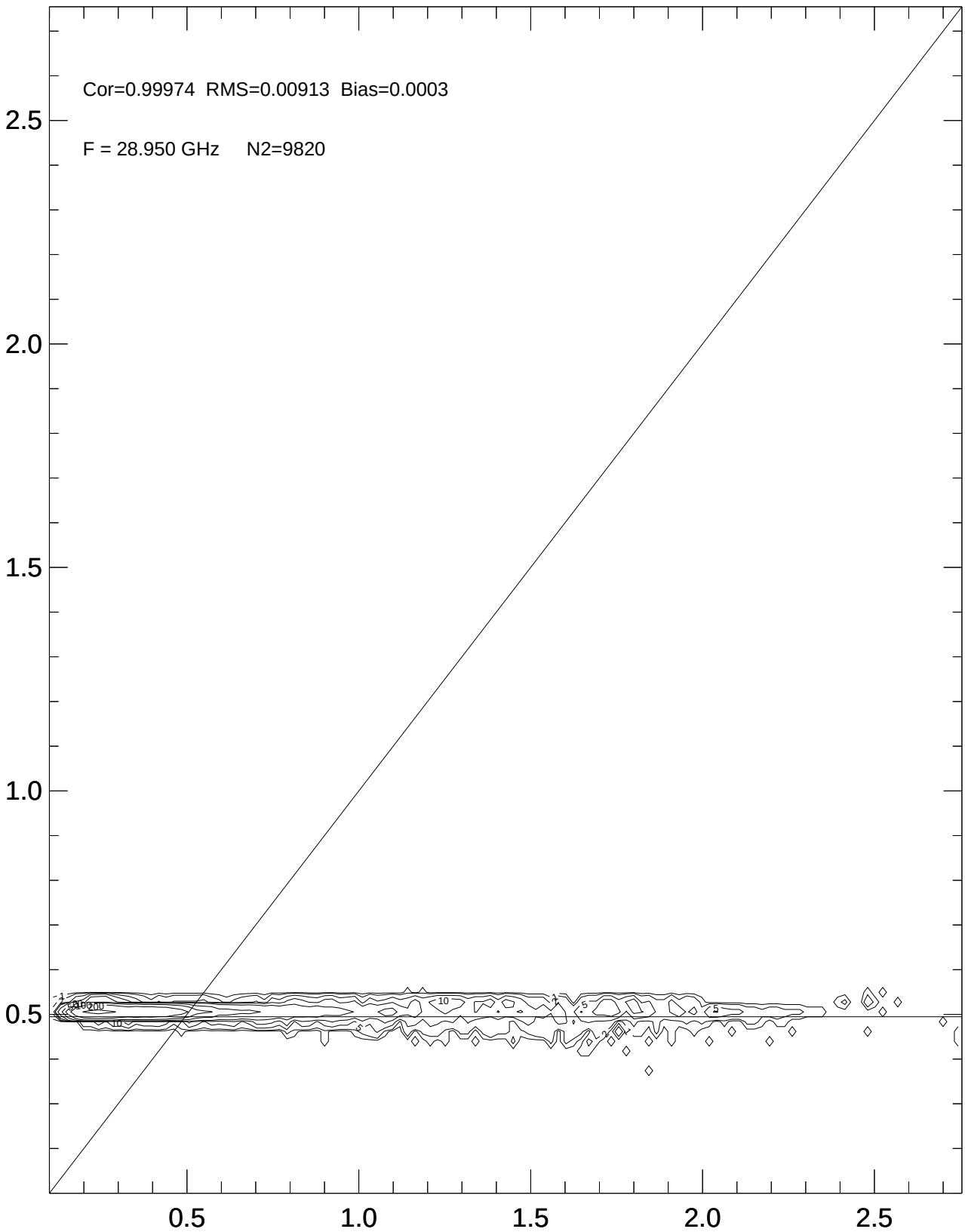

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5

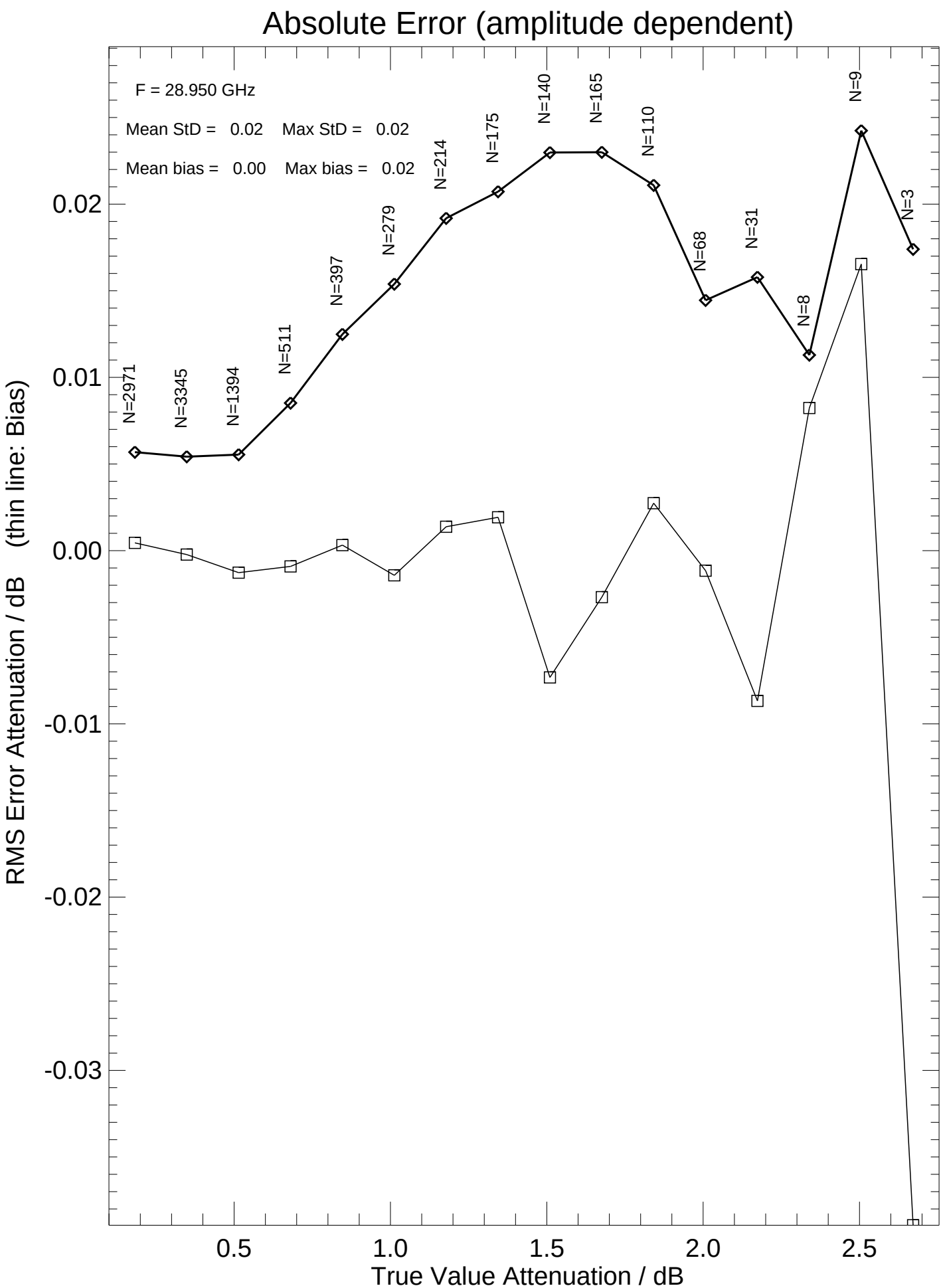

Cor=0.99974 RMS=0.00883 Bias=0.0002
F = 27.840 GHz N2=9820
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5

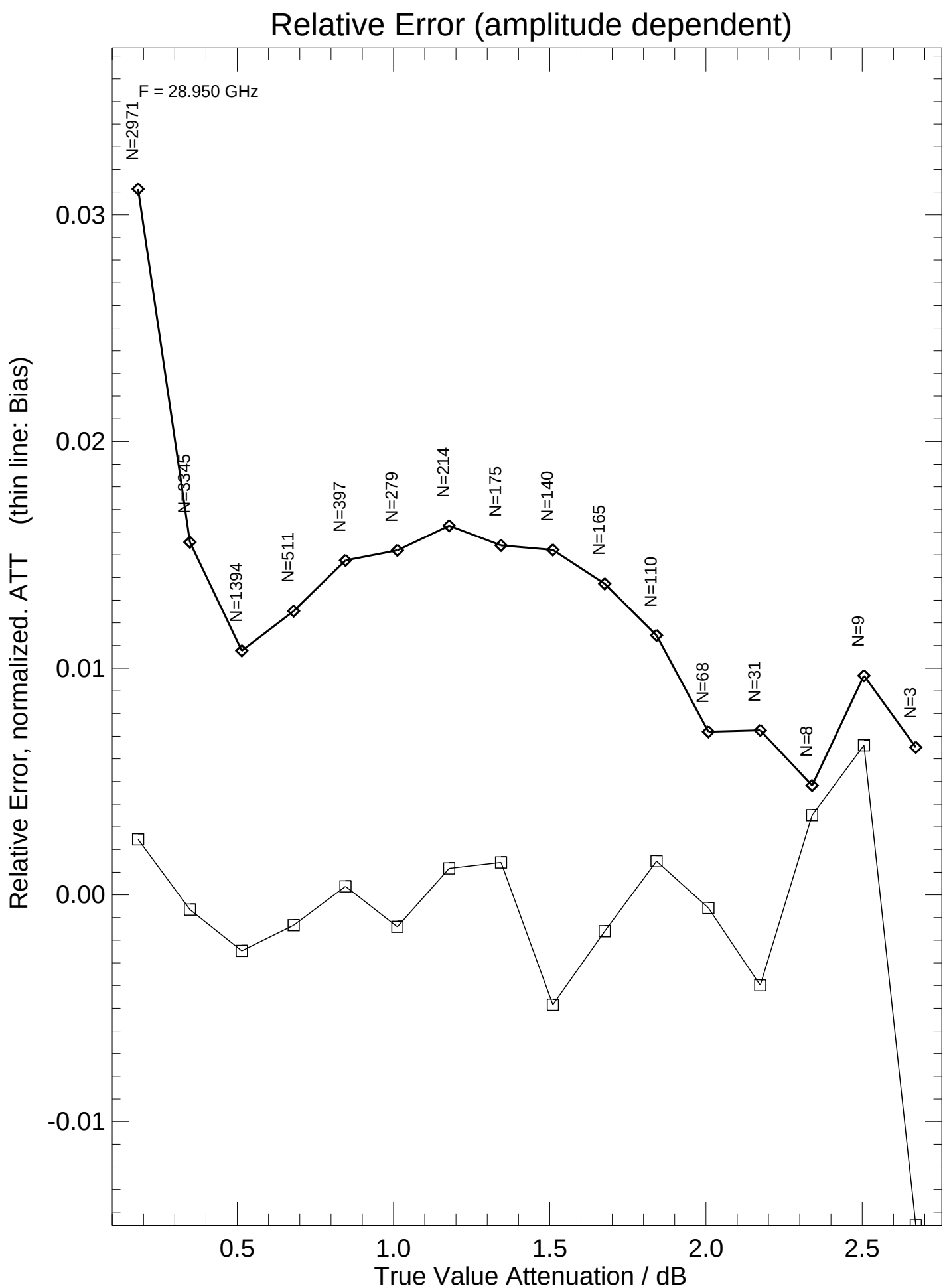

Absolute Error (amplitude dependent)
F = 27.840 GHz
Mean StD = 0.01 Max StD = 0.02
Mean bias = 0.00 Max bias = 0.02
N=2364
N=3194
N=1980
N=577
N=434
N=286
N=234
N=190
N=152
N=165
N=118
N=72
N=31
N=11
N=9
N=3
0.02
0.01
0.00
-0.01
-0.02
-0.03
RMS Error Attenuation / dB (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
True Value Attenuation / dB

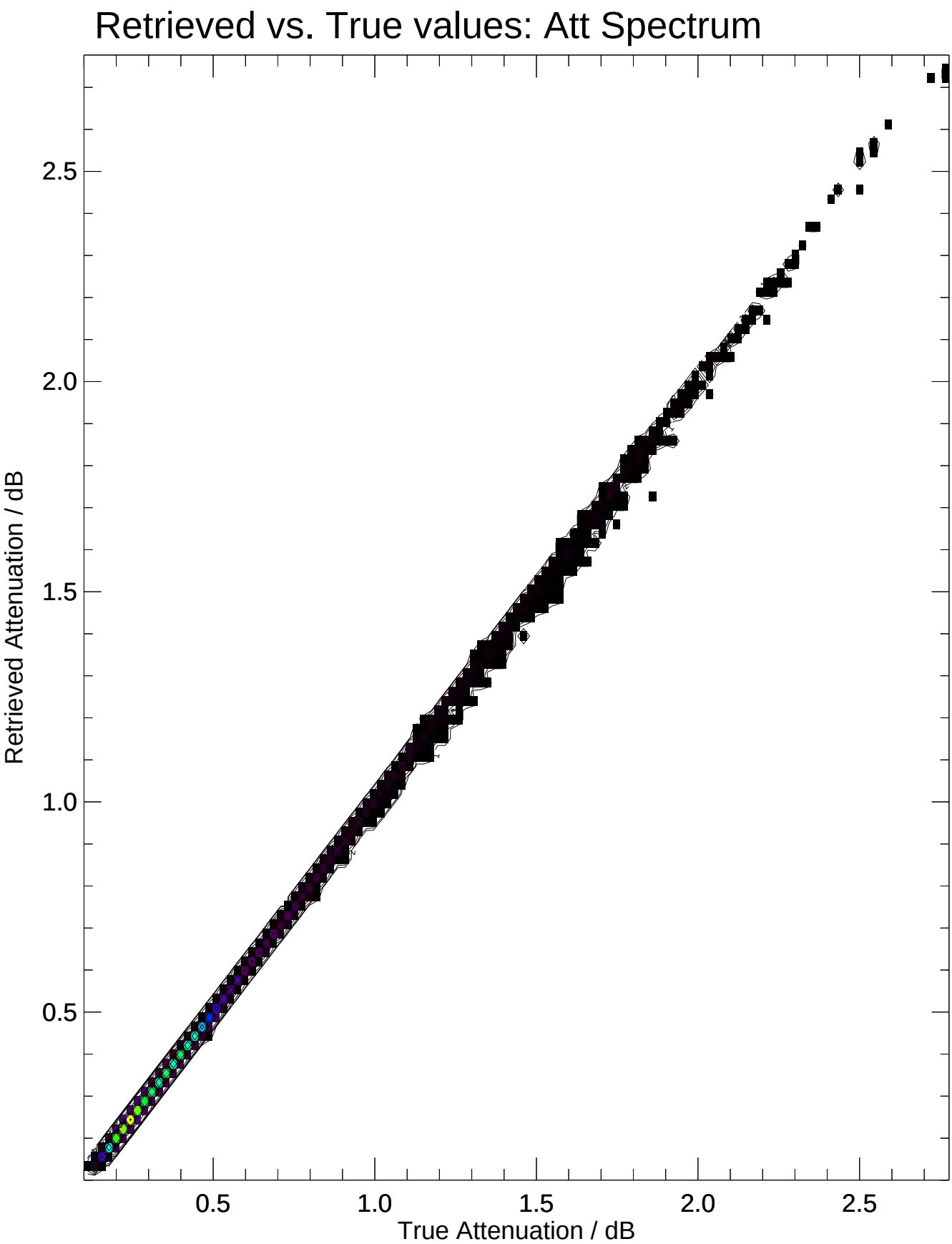

Relative Error (amplitude dependent)
F = 27.840 GHz
N=2364
N=3194
N=1980
N=577
N=434
N=286
N=234
N=190
N=152
N=165
N=118
N=72
N=31
N=11
N=9
N=3
0.03
0.02
0.01
0.00
-0.01
0.5
1.0
1.5
2.0
2.5
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

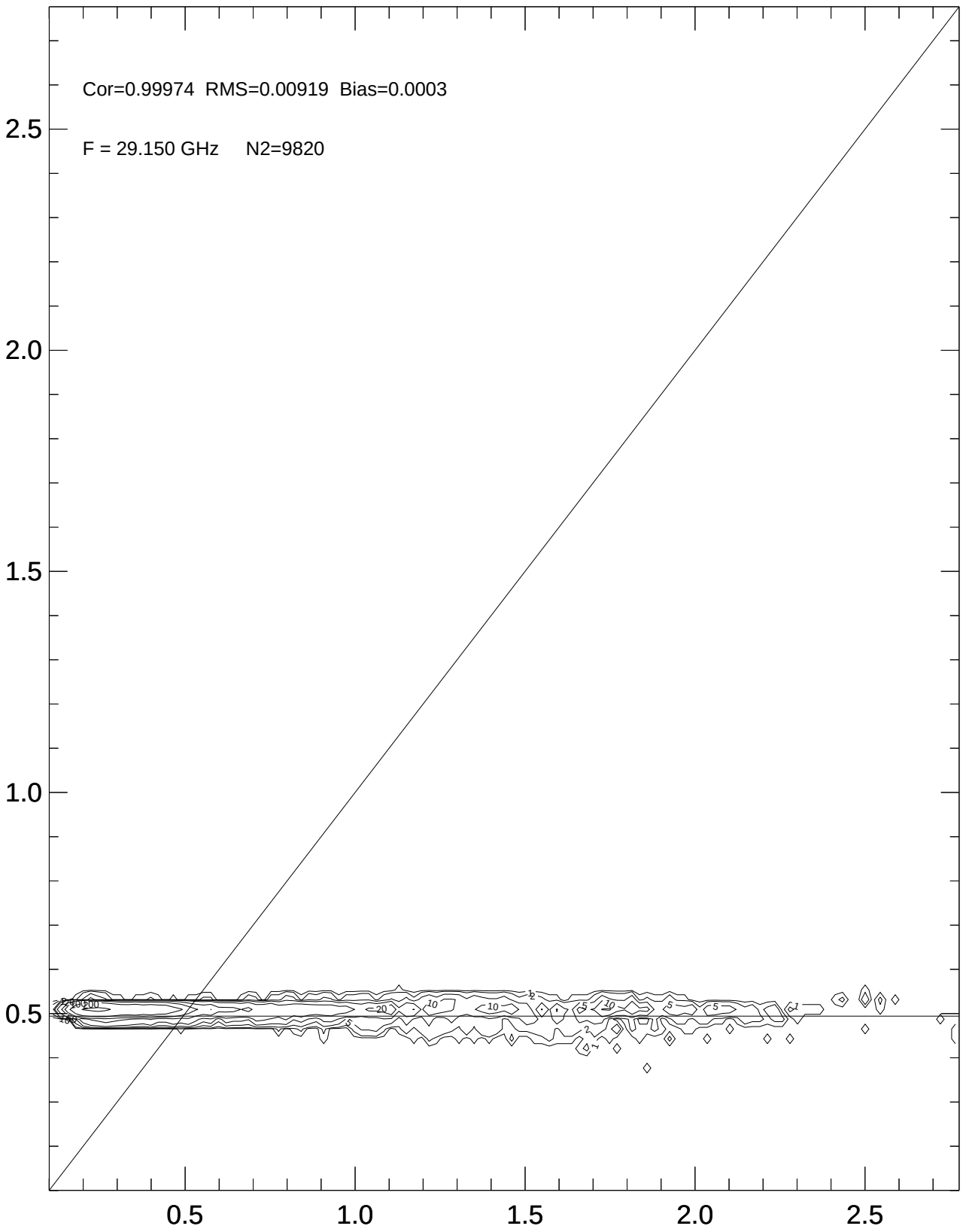

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5

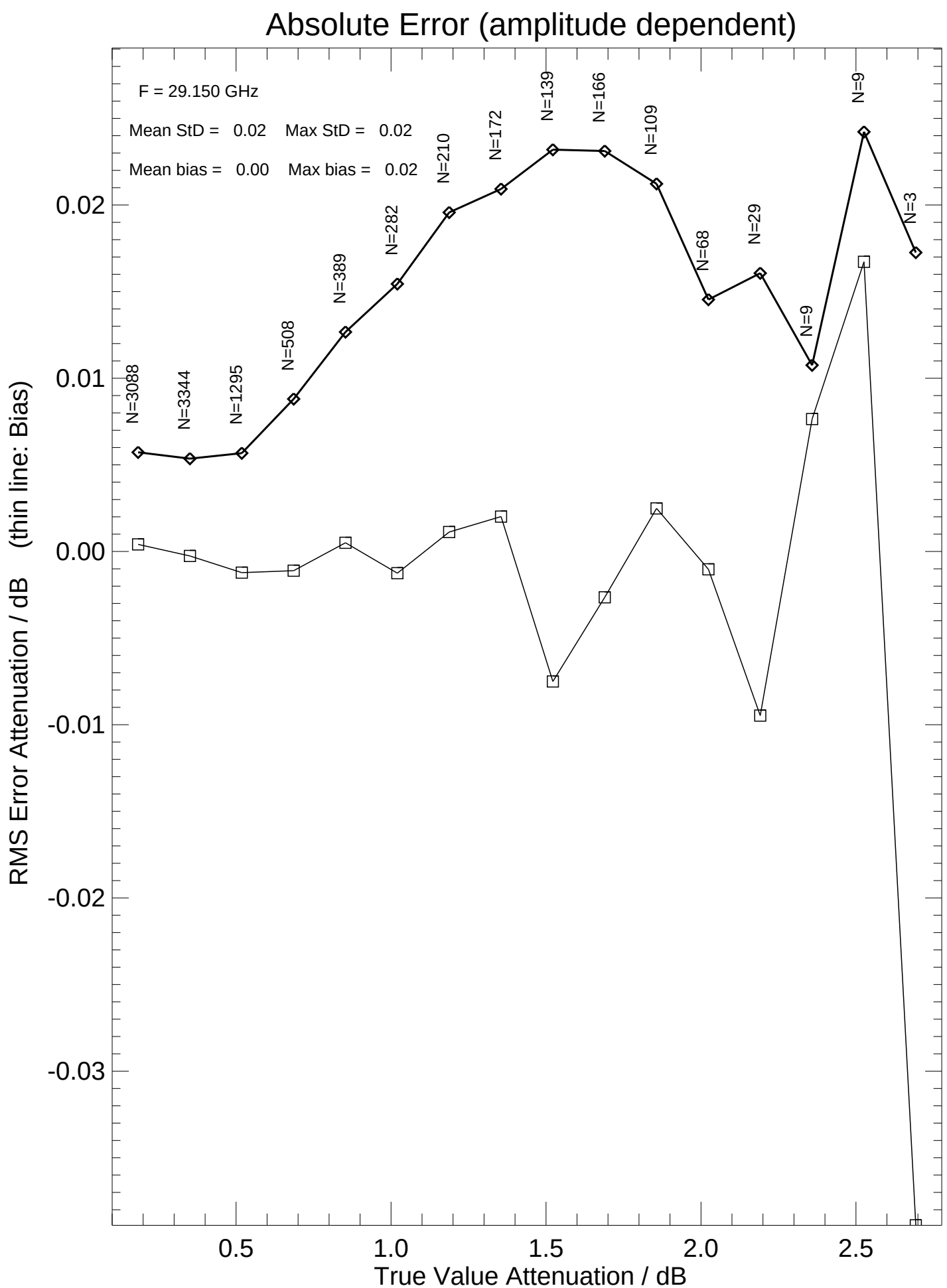

Cor=0.99974 RMS=0.00913 Bias=0.0003
F = 28.950 GHz N2=9820
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5

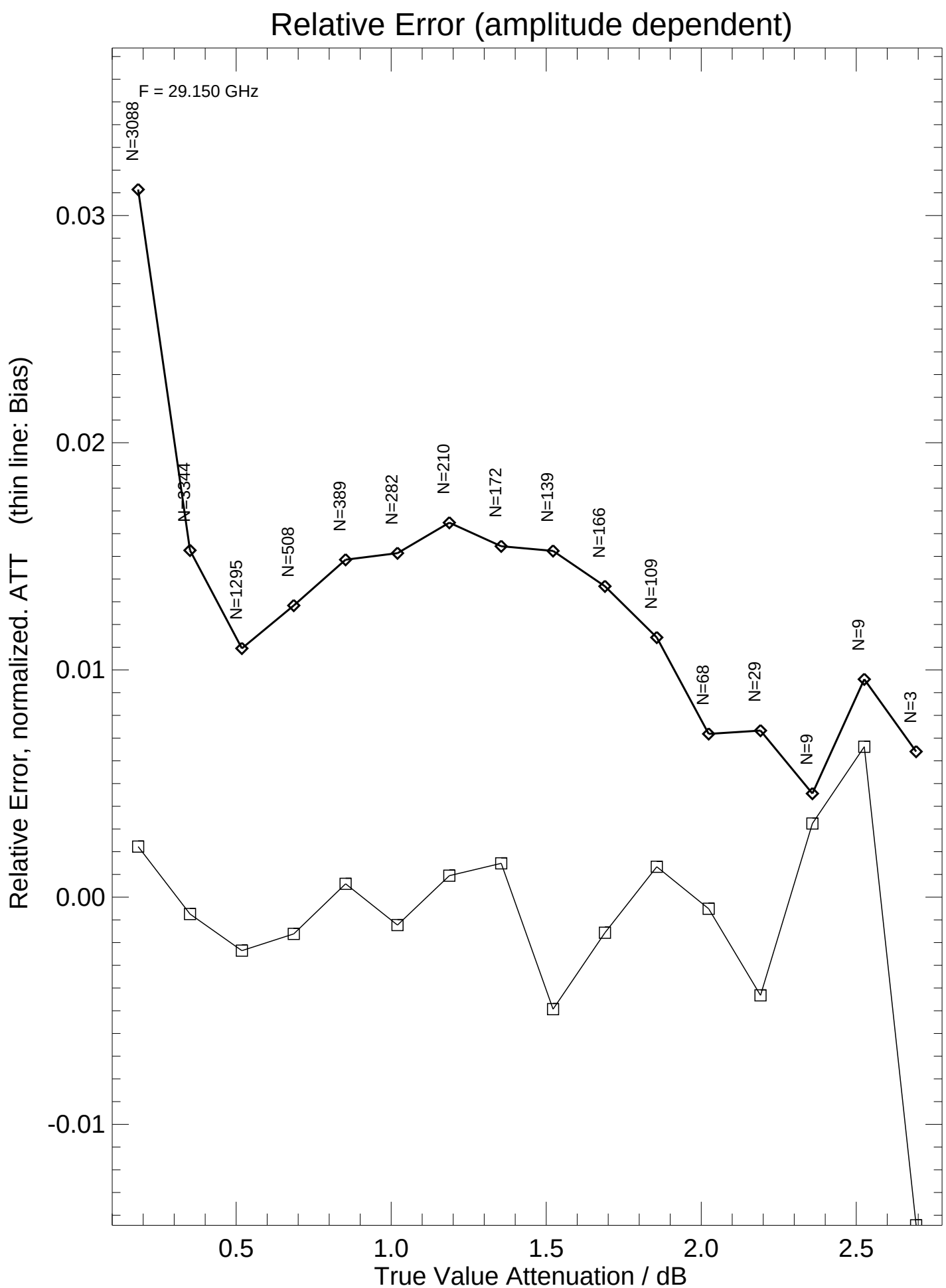

Absolute Error (amplitude dependent)
F = 28.950 GHz
Mean StD = 0.02 Max StD = 0.02
Mean bias = 0.00 Max bias = 0.02
N=2971
N=3345
N=1394
N=511
N=397
N=279
N=214
N=175
N=140
N=165
N=110
N=68
N=31
N=8
N=9
N=3
0.02
0.01
0.00
-0.01
-0.02
-0.03
RMS Error Attenuation / dB (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
True Value Attenuation / dB

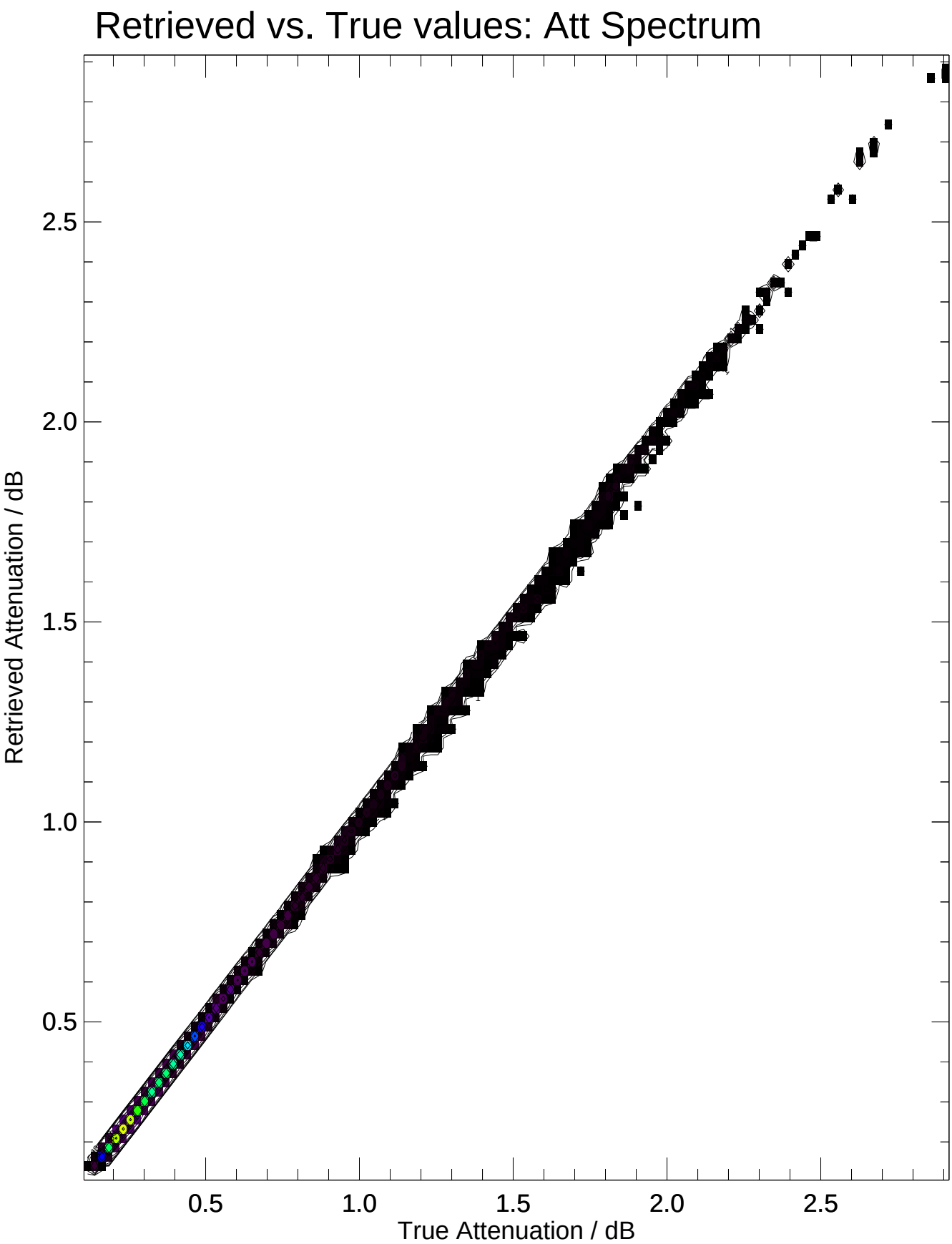

Relative Error (amplitude dependent)
F = 28.950 GHz
N=2971
N=3345
N=1394
N=511
N=397
N=279
N=214
N=175
N=140
N=165
N=110
N=68
N=31
N=8
N=9
N=3
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
True Value Attenuation / dB

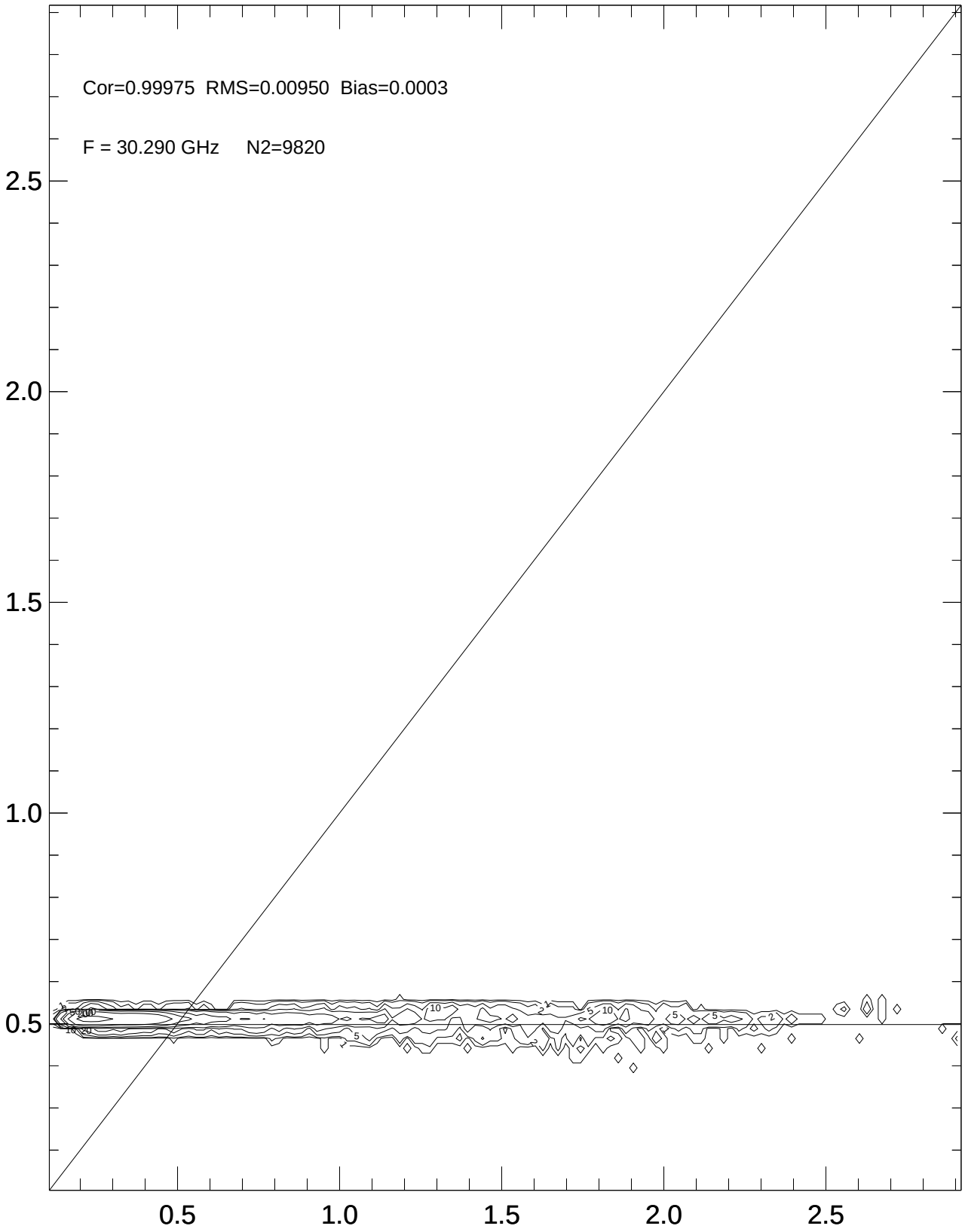

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5

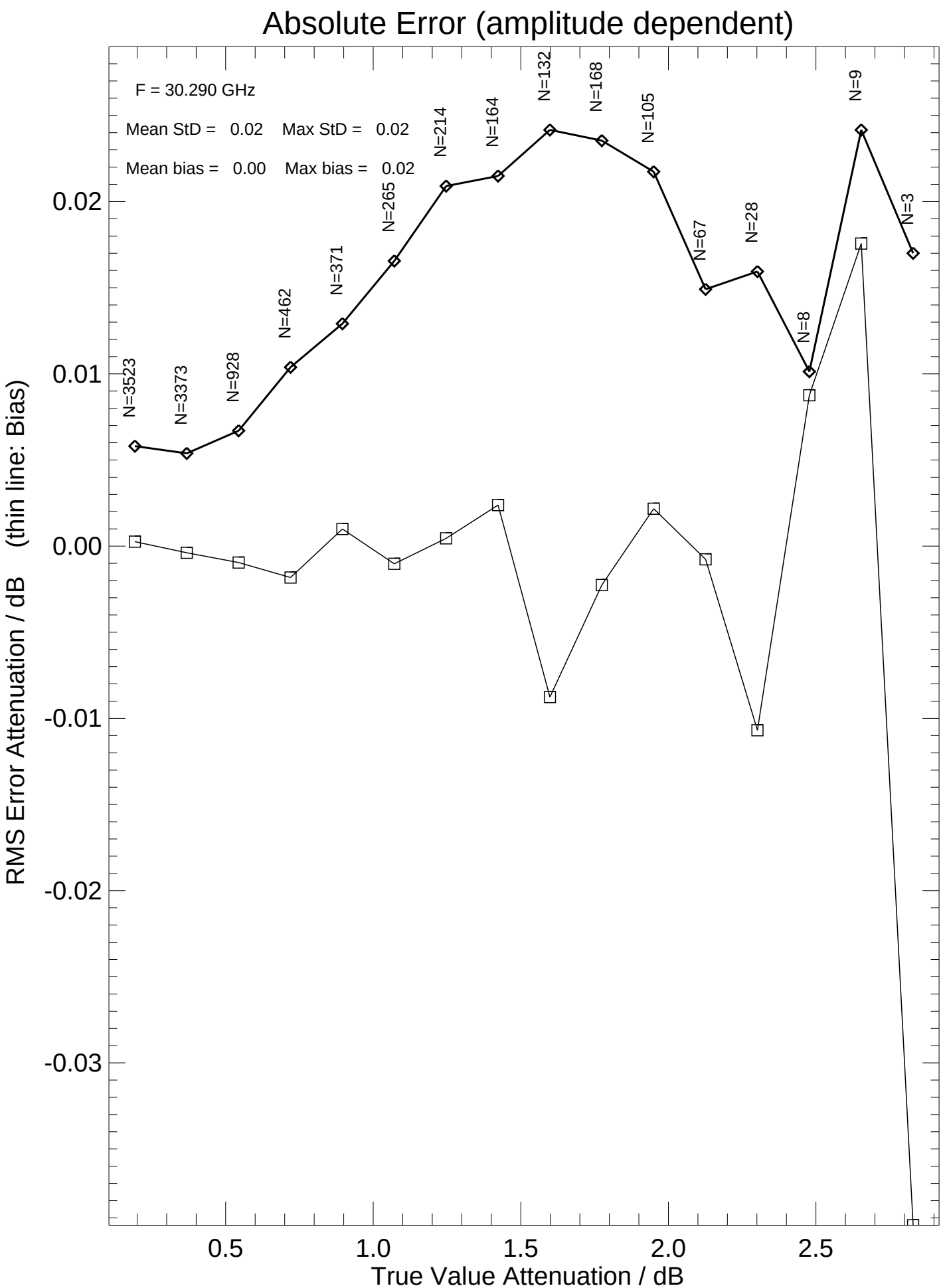

Cor=0.99974 RMS=0.00919 Bias=0.0003
F = 29.150 GHz N2=9820
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5

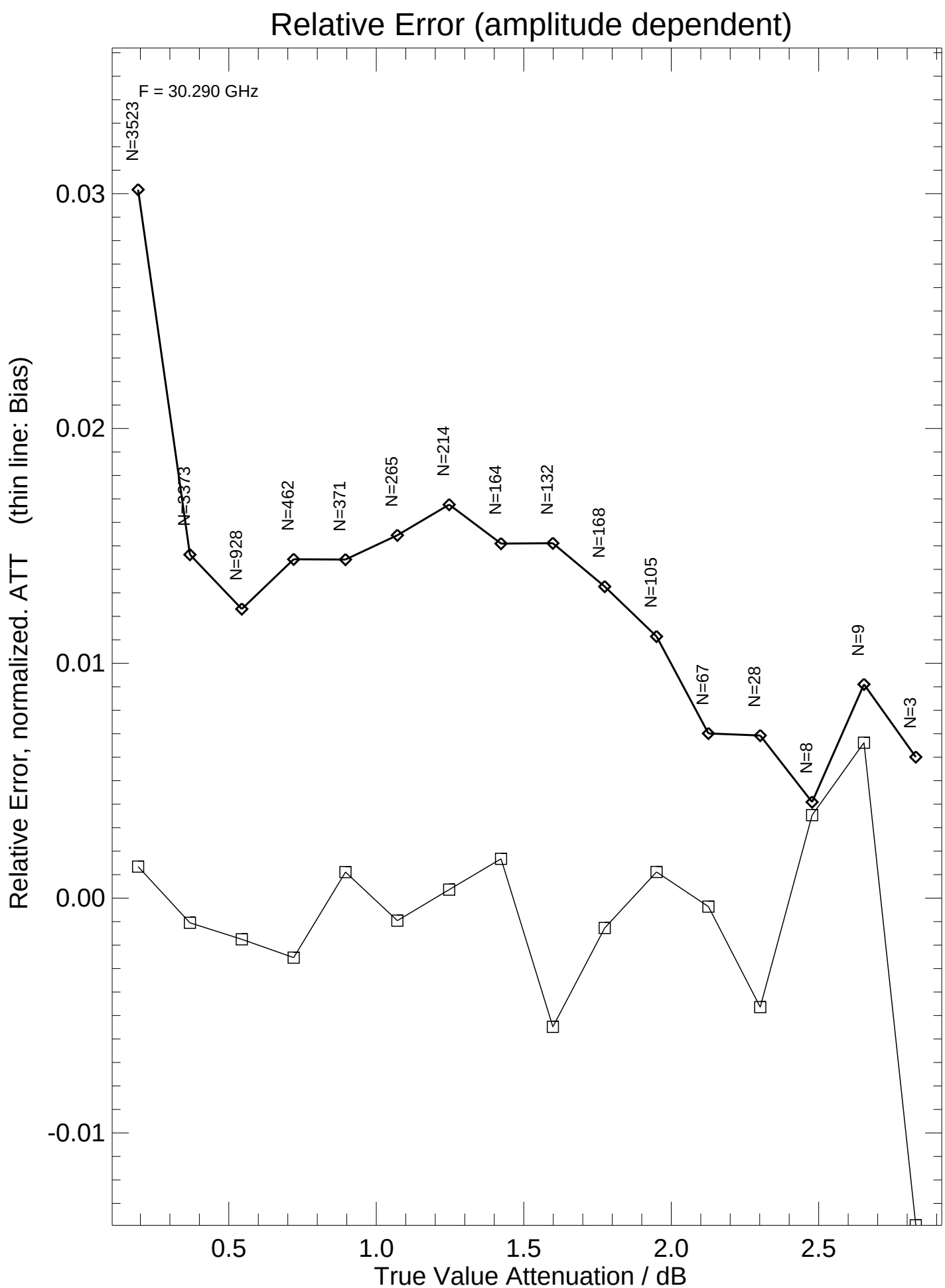

Absolute Error (amplitude dependent)
F = 29.150 GHz
Mean StD = 0.02 Max StD = 0.02
Mean bias = 0.00 Max bias = 0.02
N=3088
N=3344
N=1295
N=508
N=389
N=282
N=210
N=172
N=139
N=166
N=109
N=68
N=29
N=9
N=9
N=3
0.02
0.01
0.00
-0.01
-0.02
-0.03
RMS Error Attenuation / dB (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
True Value Attenuation / dB

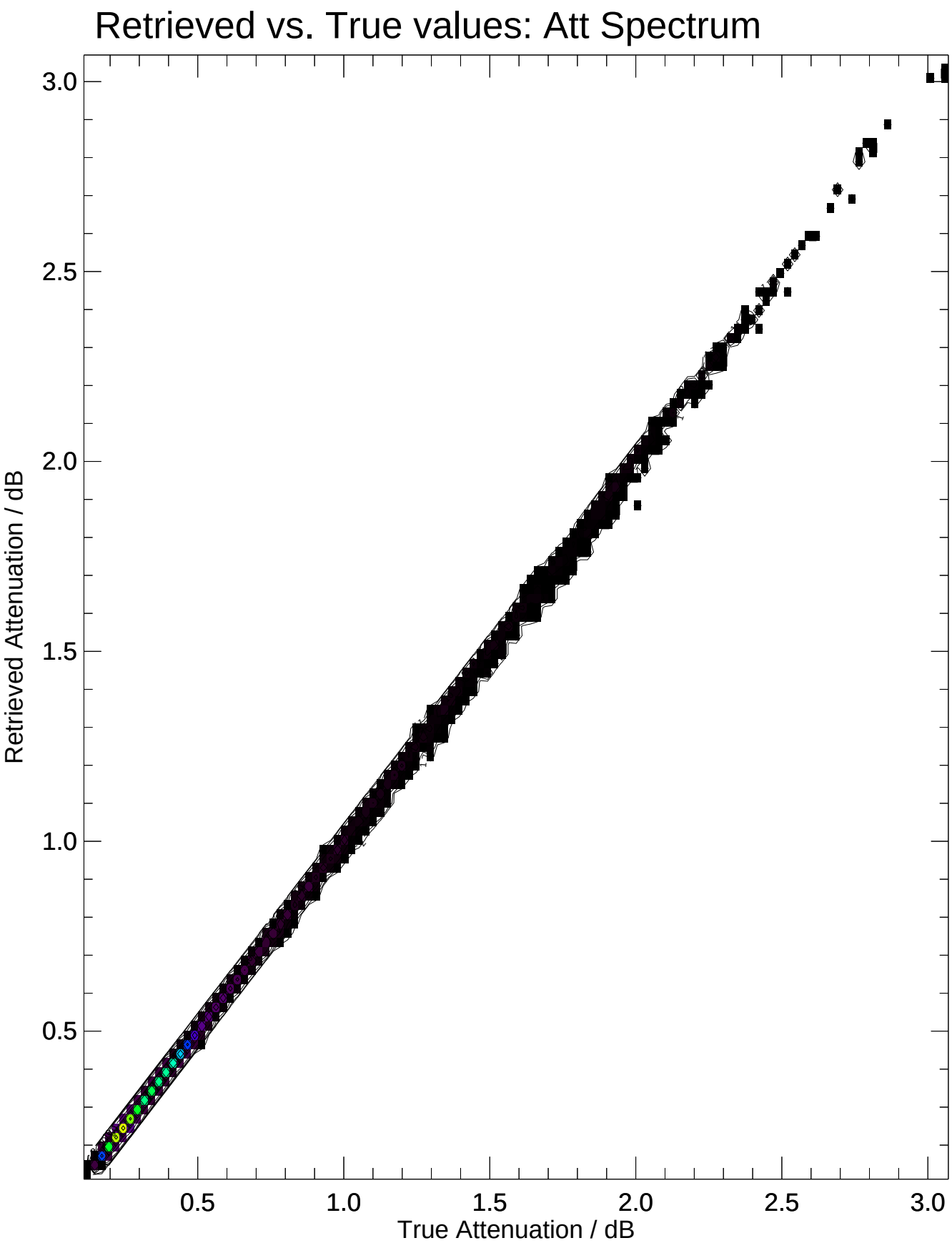

Relative Error (amplitude dependent)
F = 29.150 GHz
N=3088
N=3344
N=1295
N=508
N=389
N=282
N=210
N=172
N=139
N=166
N=109
N=68
N=29
N=9
N=9
N=3
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
True Value Attenuation / dB

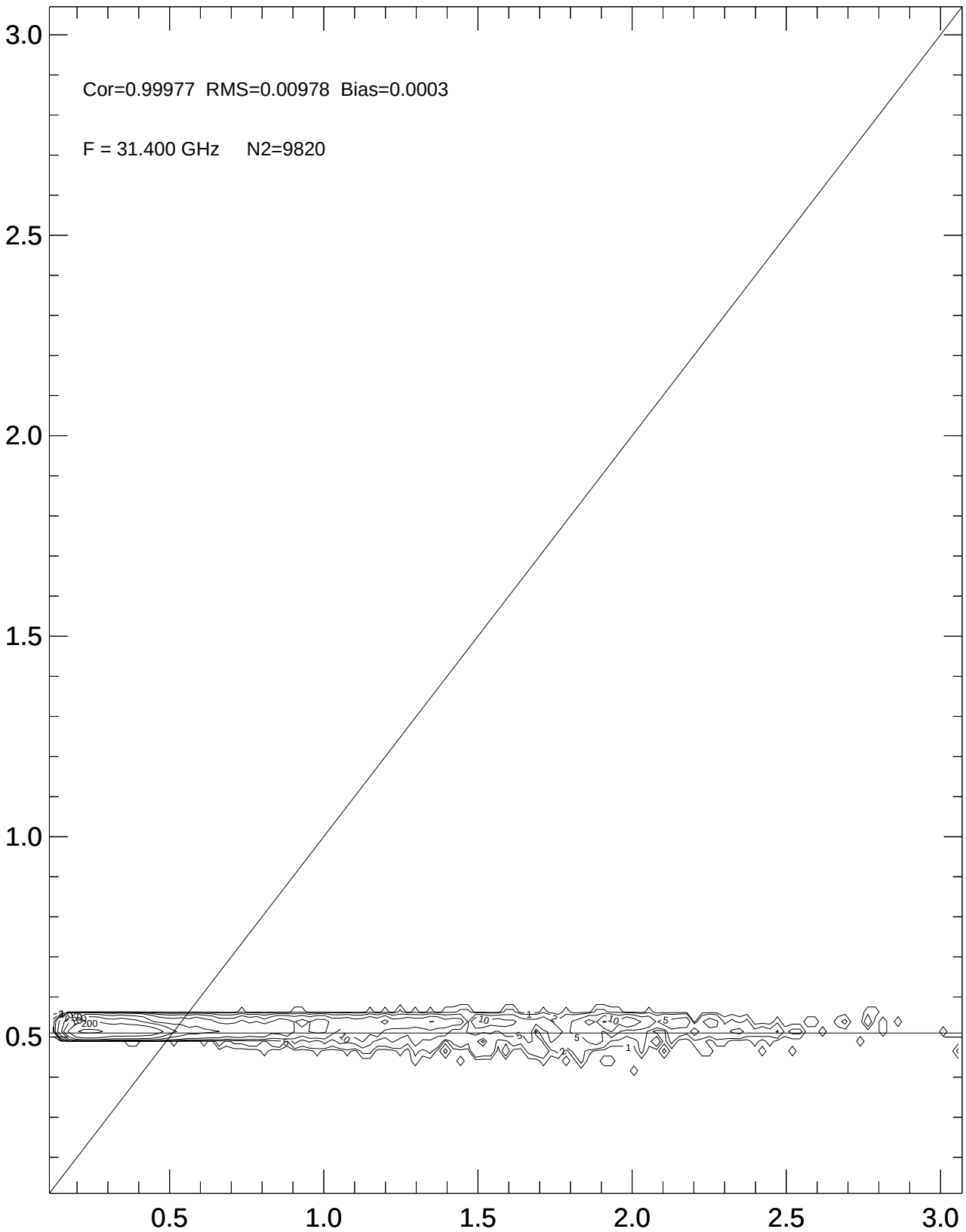

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5

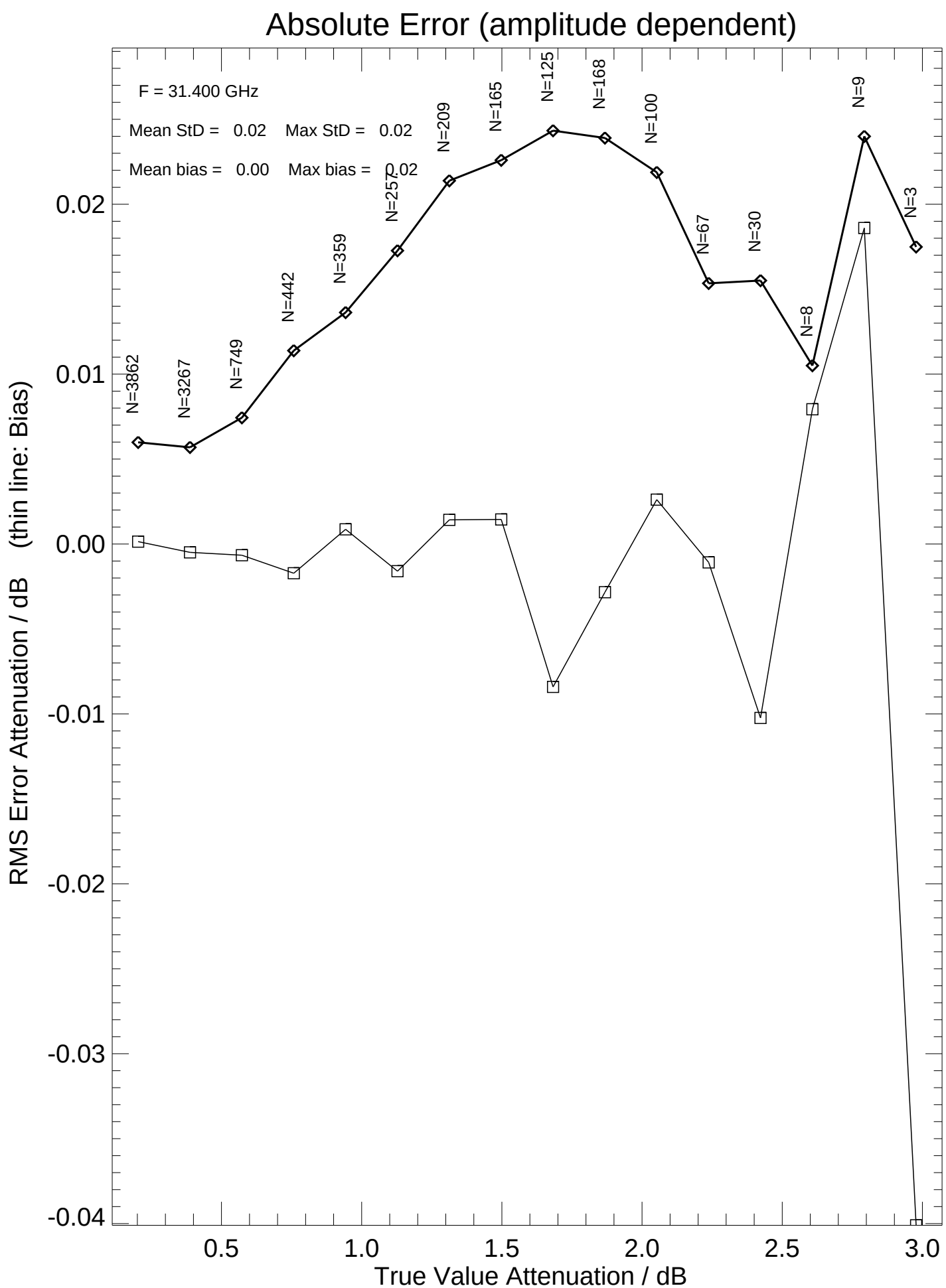

Cor=0.99975 RMS=0.00950 Bias=0.0003
F = 30.290 GHz N2=9820
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5

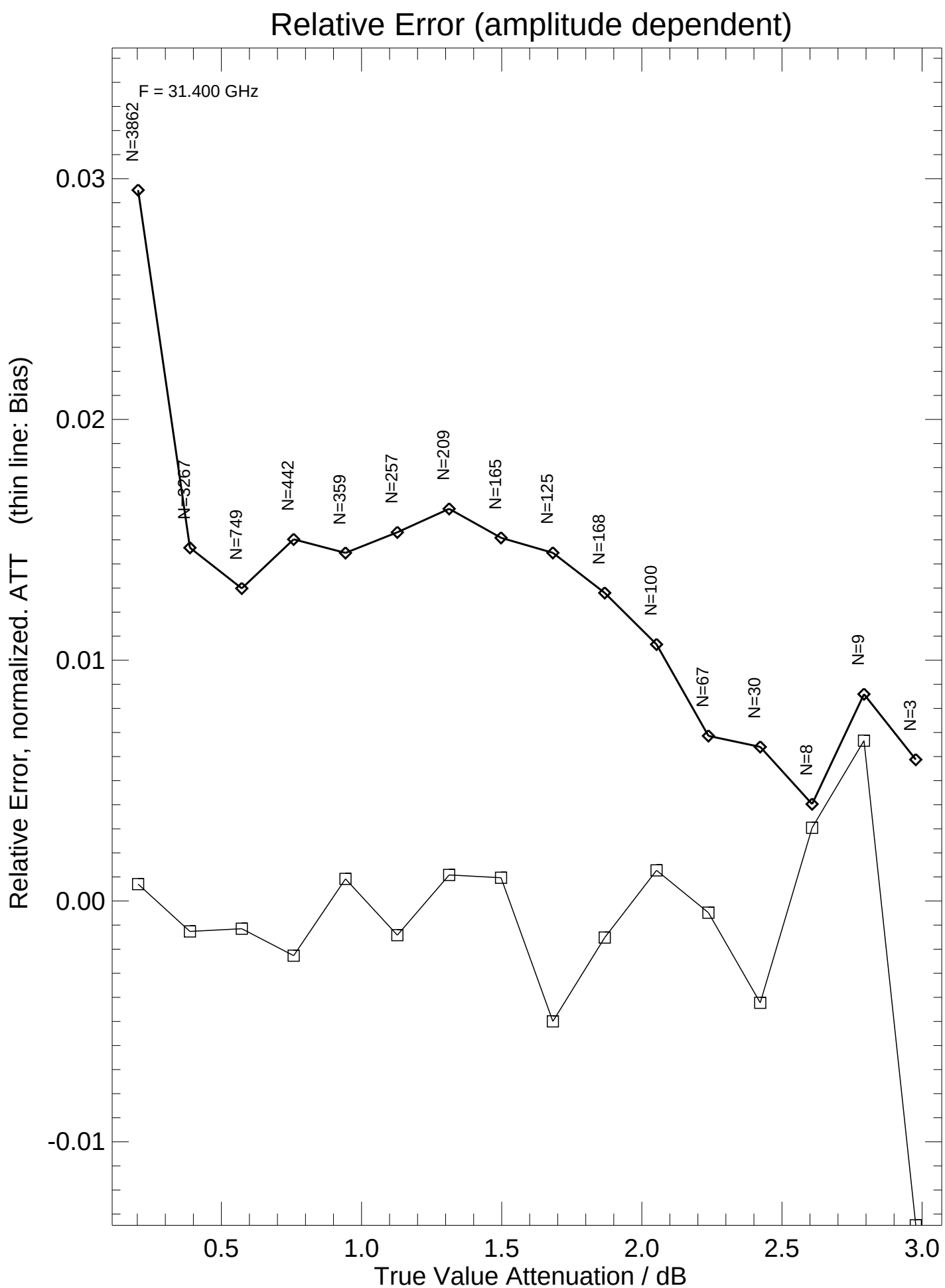

Absolute Error (amplitude dependent)
F = 30.290 GHz
Mean StD = 0.02 Max StD = 0.02
Mean bias = 0.00 Max bias = 0.02
N=3523
N=3373
N=928
N=462
N=371
N=265
N=214
N=164
N=132
N=168
N=105
N=67
N=28
N=8
N=9
N=3
0.02
0.01
0.00
-0.01
-0.02
-0.03
RMS Error Attenuation / dB (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
True Value Attenuation / dB

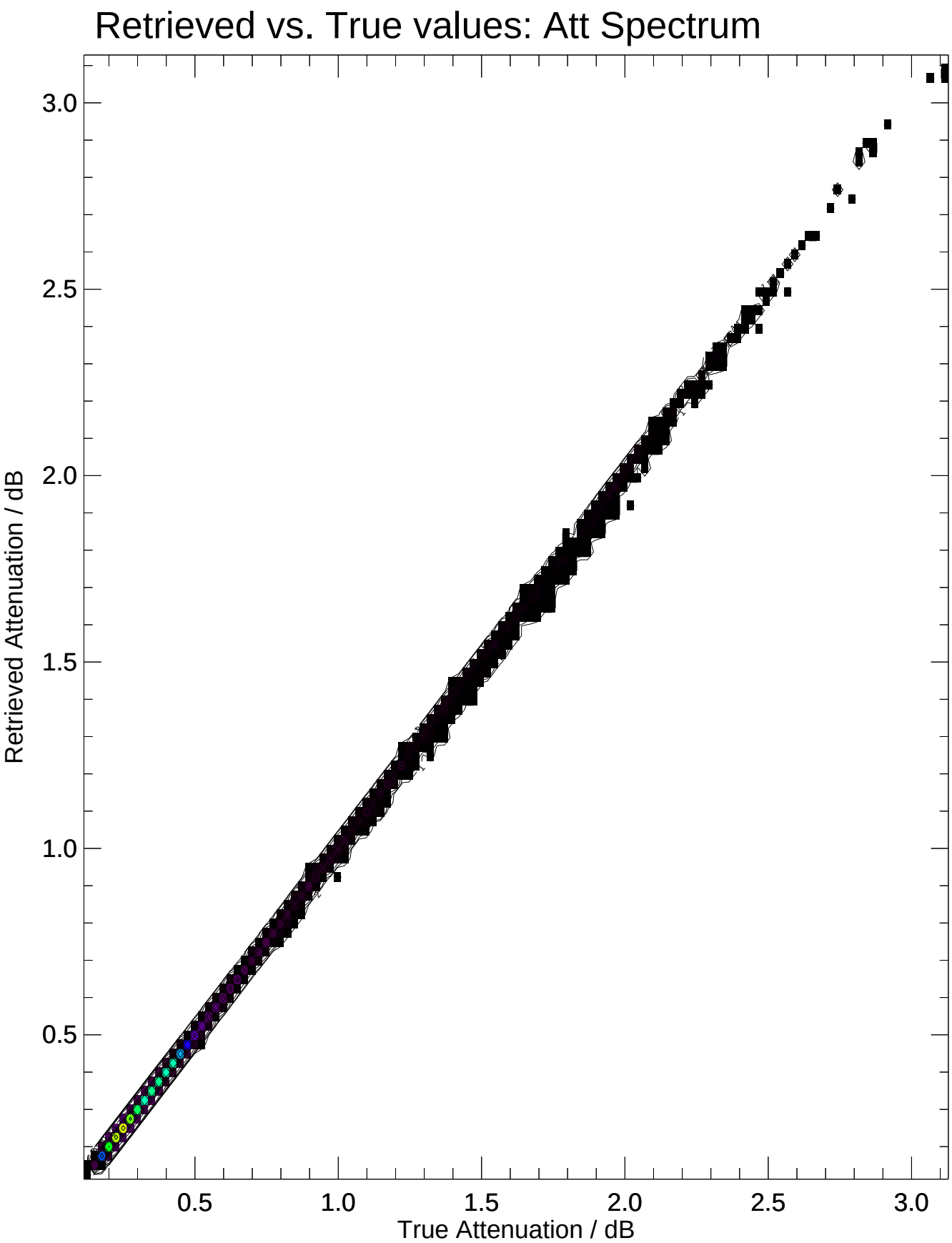

Relative Error (amplitude dependent)
F = 30.290 GHz
N=3523
N=3373
N=928
N=462
N=371
N=265
N=214
N=164
N=132
N=168
N=105
N=67
N=28
N=8
N=9
N=3
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
True Value Attenuation / dB

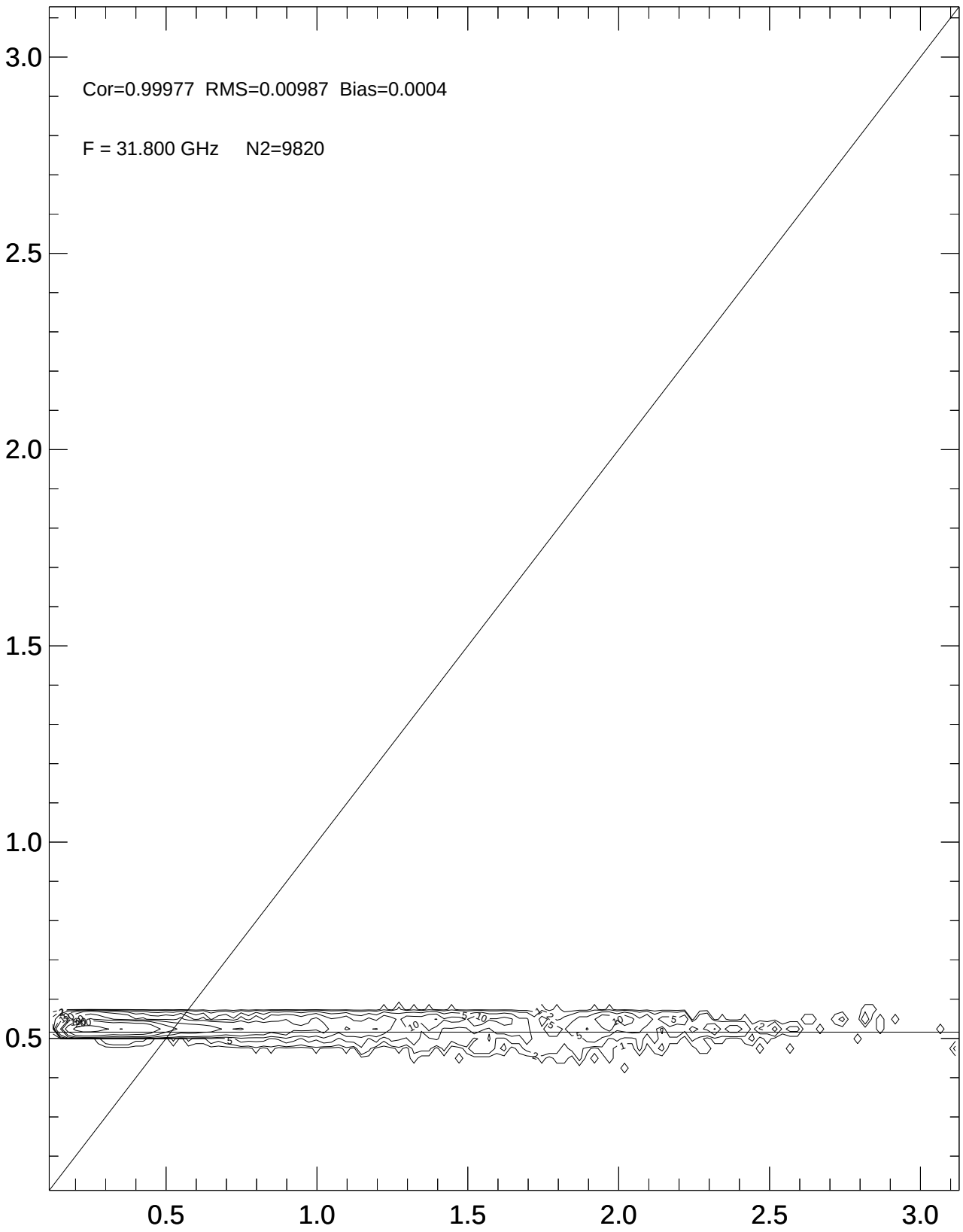

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0

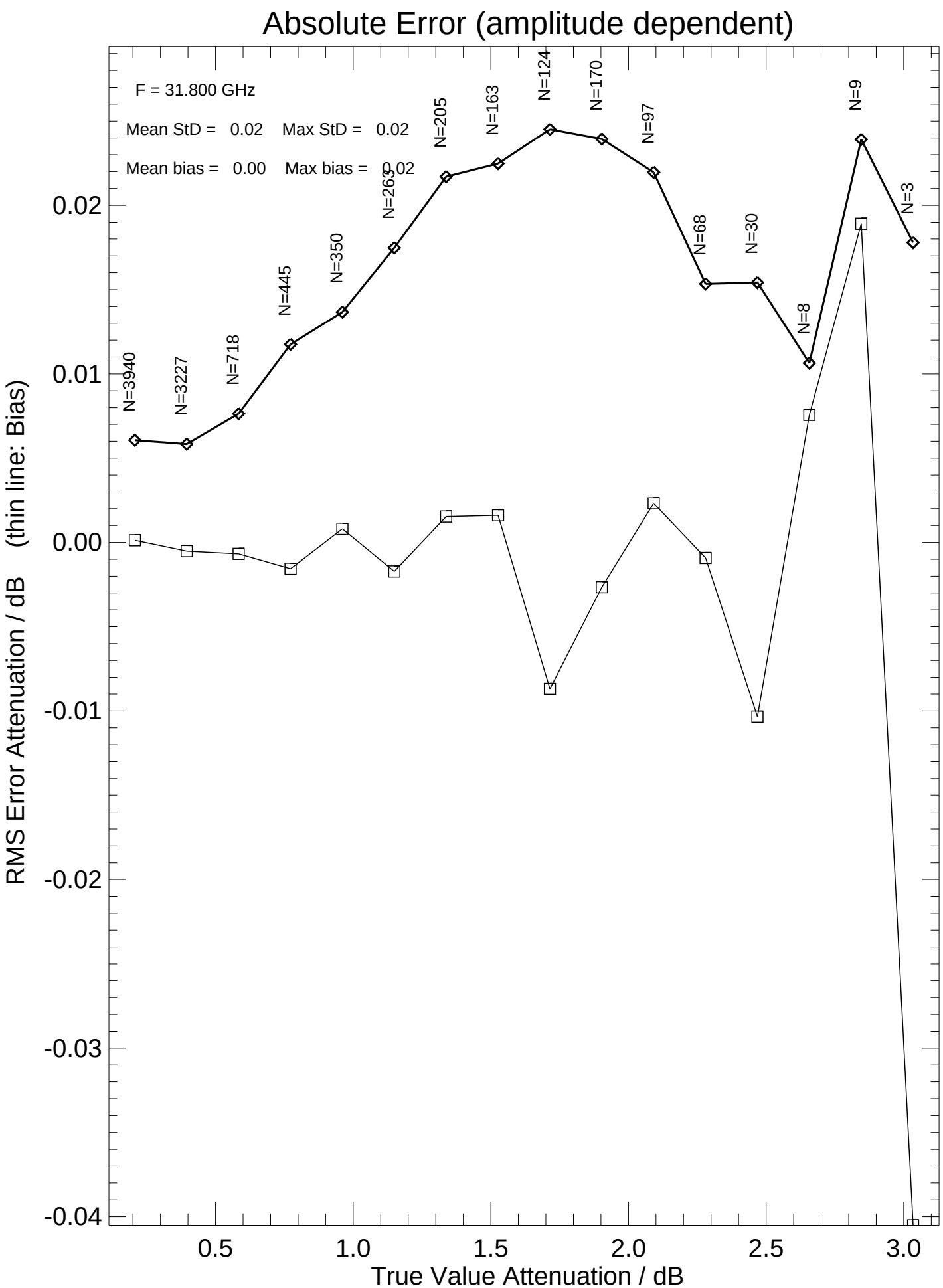

Cor=0.99977 RMS=0.00978 Bias=0.0003
F = 31.400 GHz N2=9820
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0

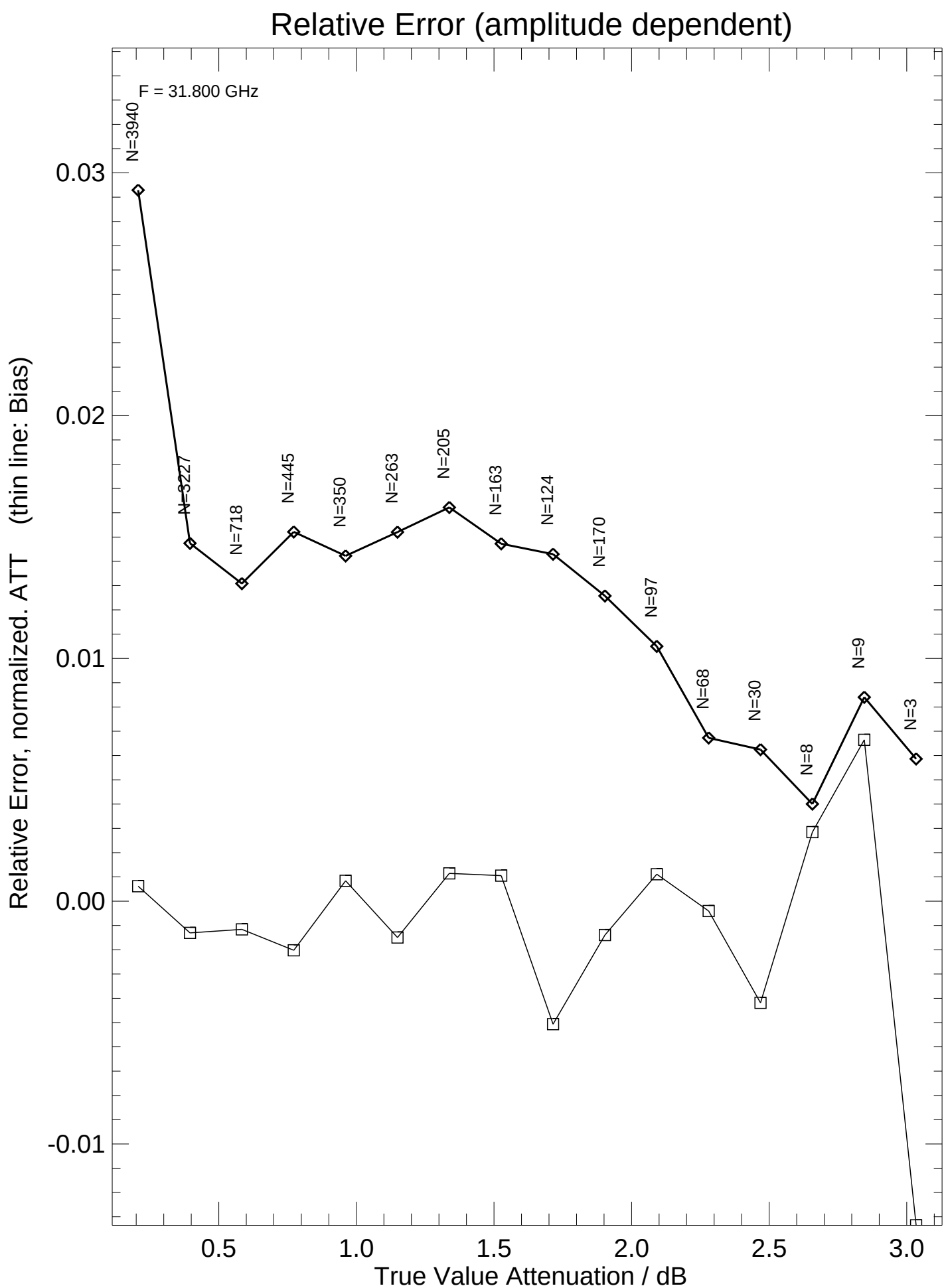

Absolute Error (amplitude dependent)
F = 31.400 GHz
Mean StD = 0.02 Max StD = 0.02
Mean bias = 0.00 Max bias = 0.02
N=3862
N=3267
N=749
N=442
N=359
N=257
N=209
N=165
N=125
N=168
N=100
N=67
N=30
N=8
N=9
N=3
0.02
0.01
0.00
-0.01
-0.02
-0.03
-0.04
RMS Error Attenuation / dB (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
3.0
True Value Attenuation / dB

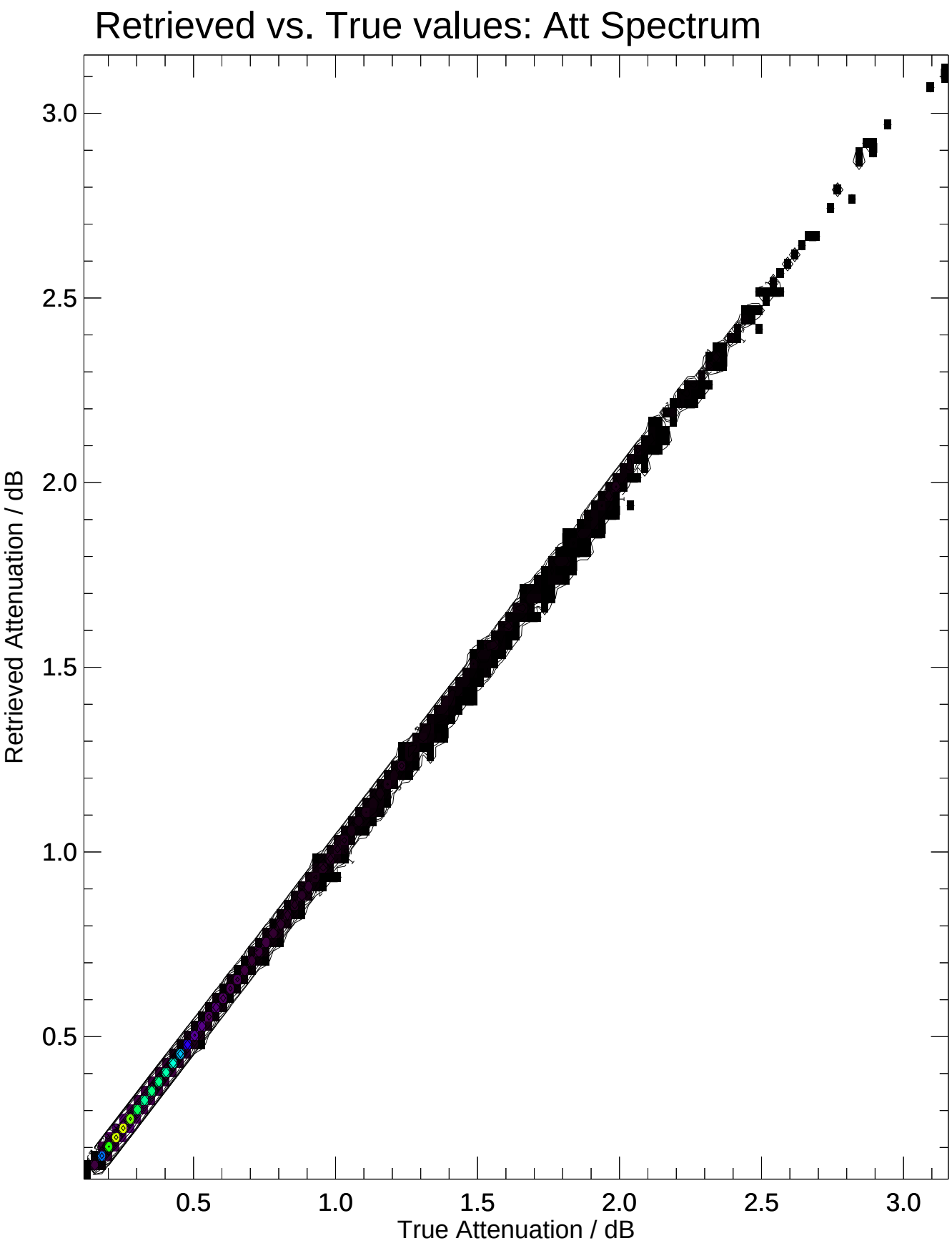

Relative Error (amplitude dependent)
F = 31.400 GHz
N=3862
N=3267
N=749
N=442
N=359
N=257
N=209
N=165
N=125
N=168
N=100
N=67
N=30
N=8
N=9
N=3
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
3.0
True Value Attenuation / dB

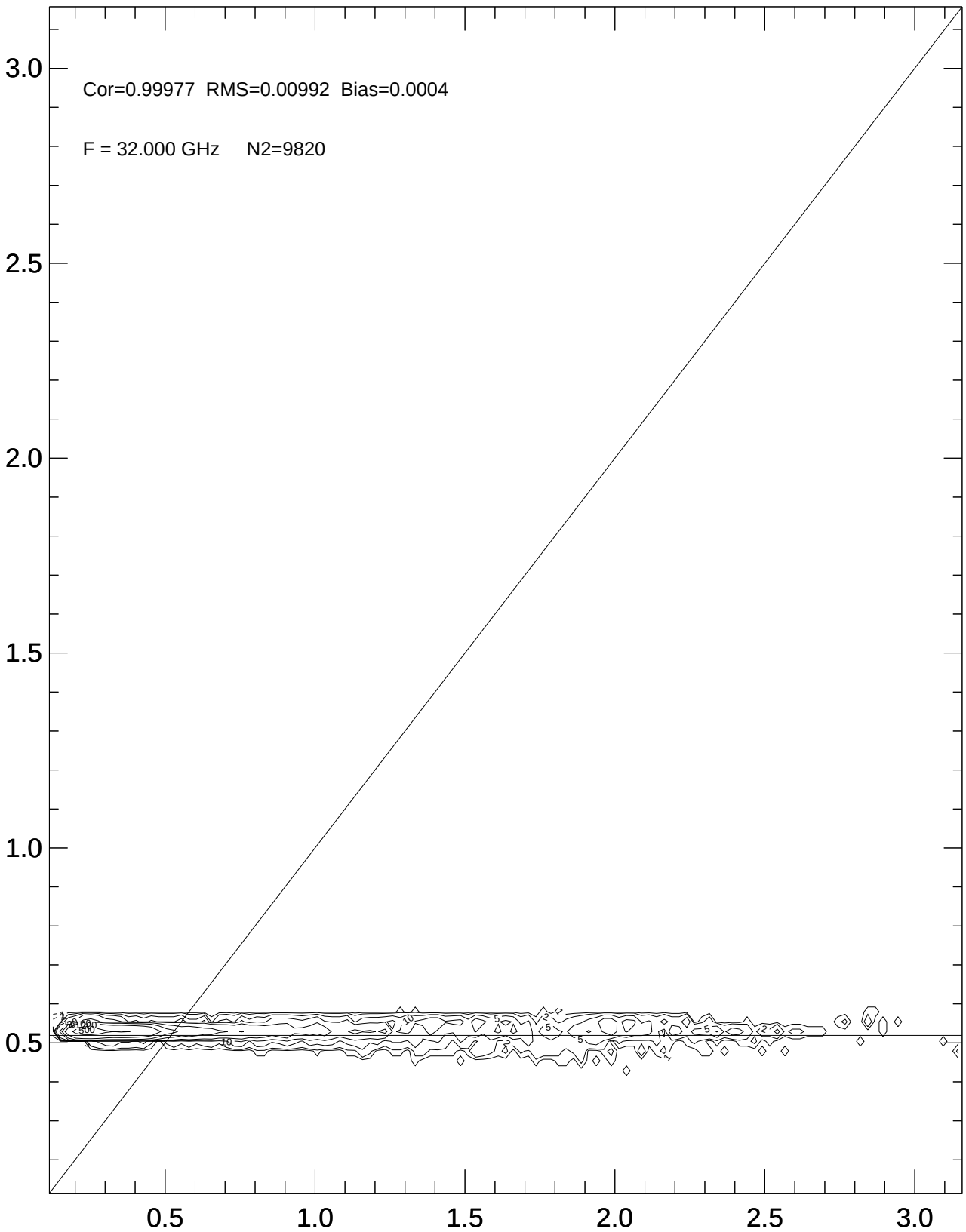

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0

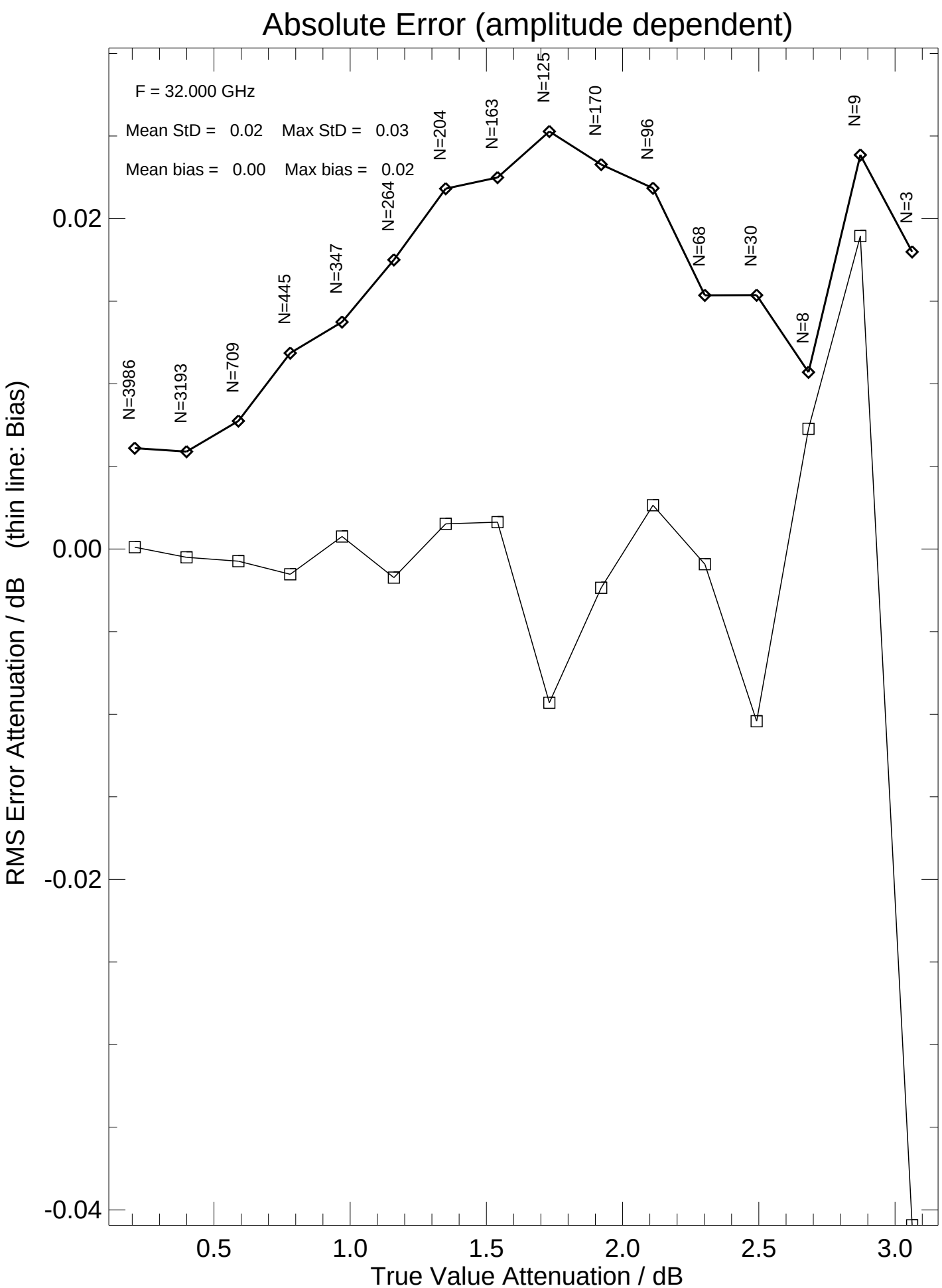

Cor=0.99977 RMS=0.00987 Bias=0.0004
F = 31.800 GHz N2=9820
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0

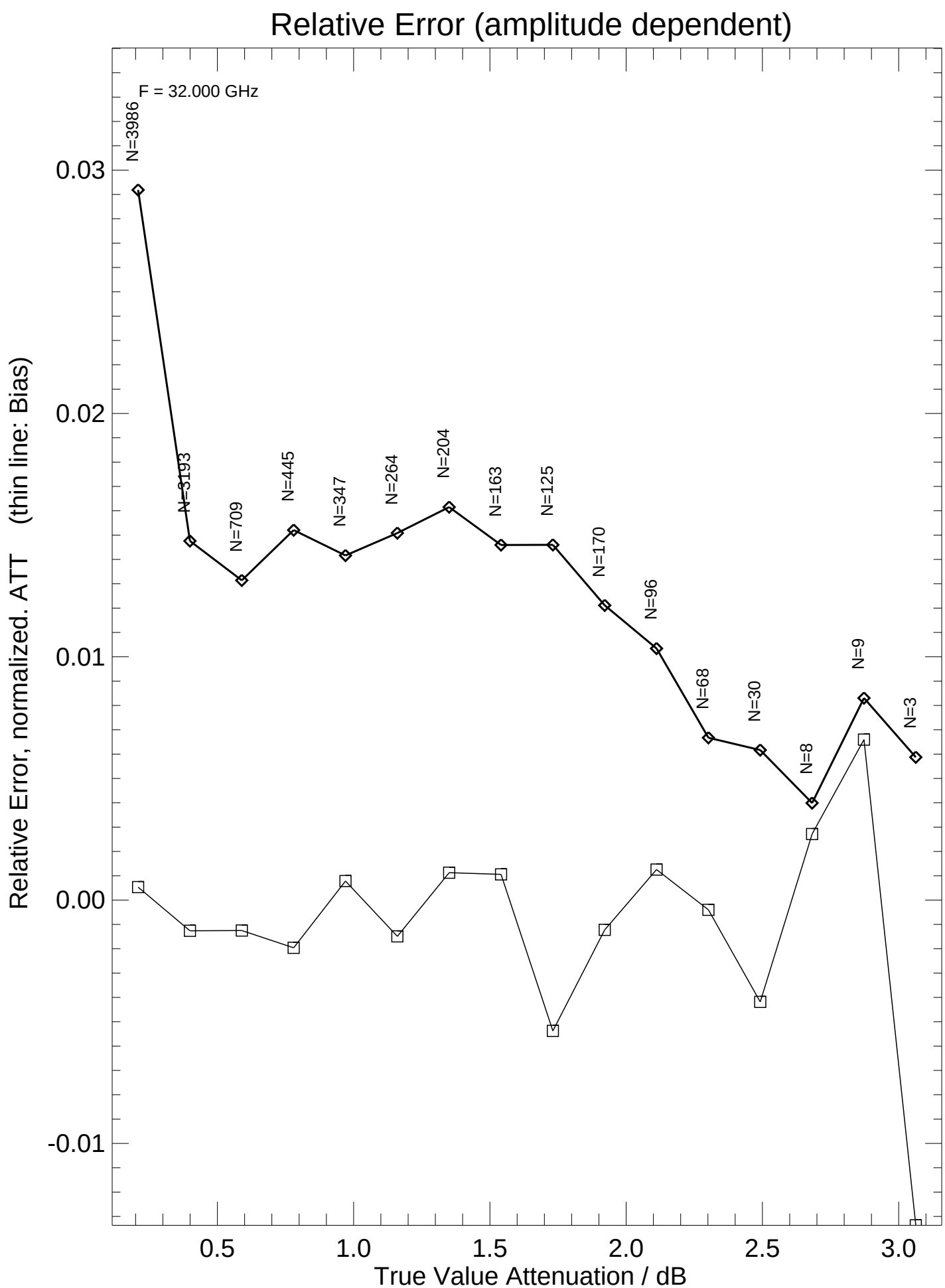

Absolute Error (amplitude dependent)
F = 31.800 GHz
Mean StD = 0.02 Max StD = 0.02
Mean bias = 0.00 Max bias = 0.02
N=3940
N=3227
N=718
N=445
N=350
N=263
N=205
N=163
N=124
N=170
N=97
N=68
N=30
N=8
N=9
N=3
0.02
0.01
0.00
-0.01
-0.02
-0.03
-0.04
0.5
1.0
1.5
2.0
2.5
3.0
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

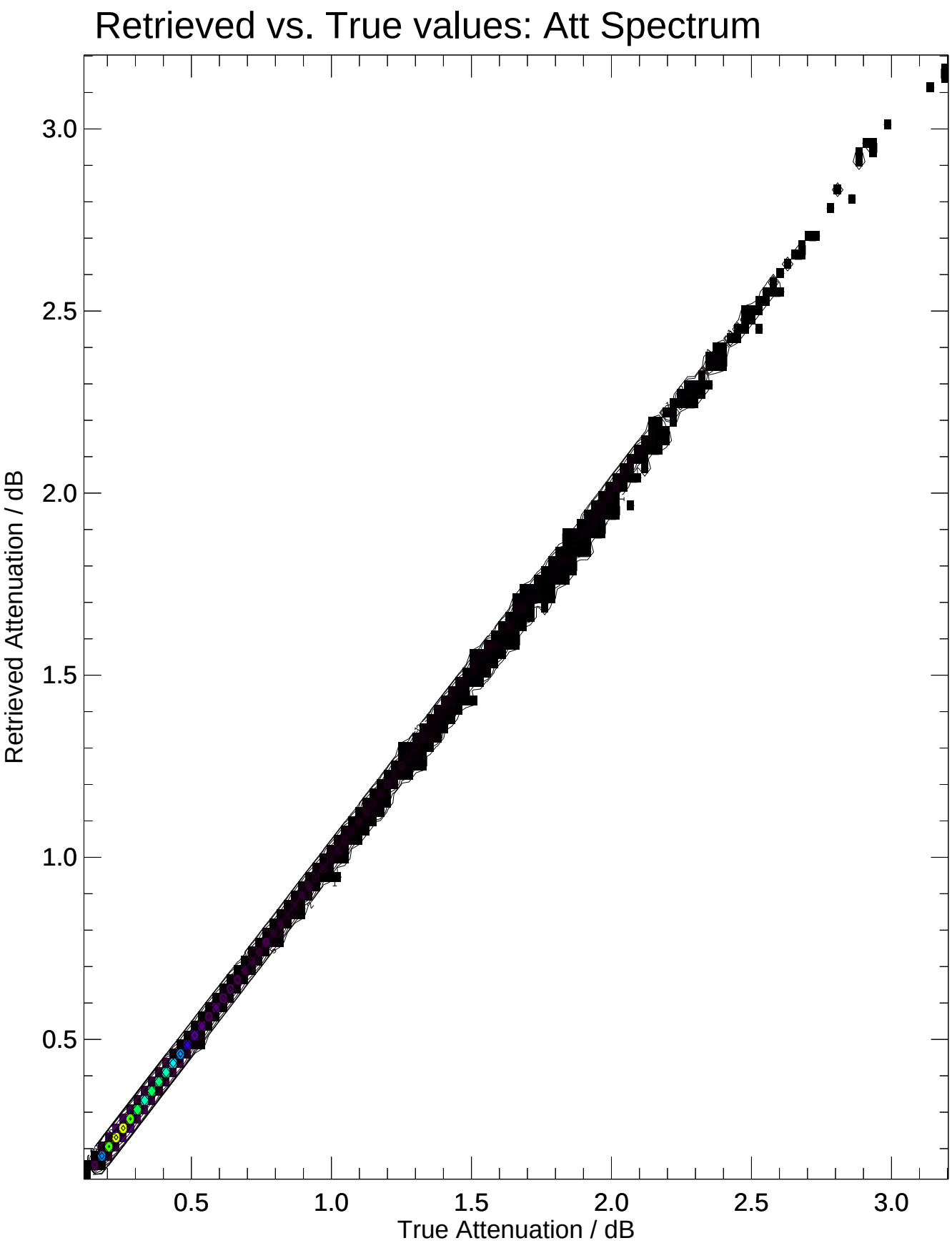

Relative Error (amplitude dependent)
F = 31.800 GHz
N=3940
N=3227
N=718
N=445
N=350
N=263
N=205
N=163
N=124
N=170
N=97
N=68
N=30
N=8
N=9
N=3
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
3.0
True Value Attenuation / dB

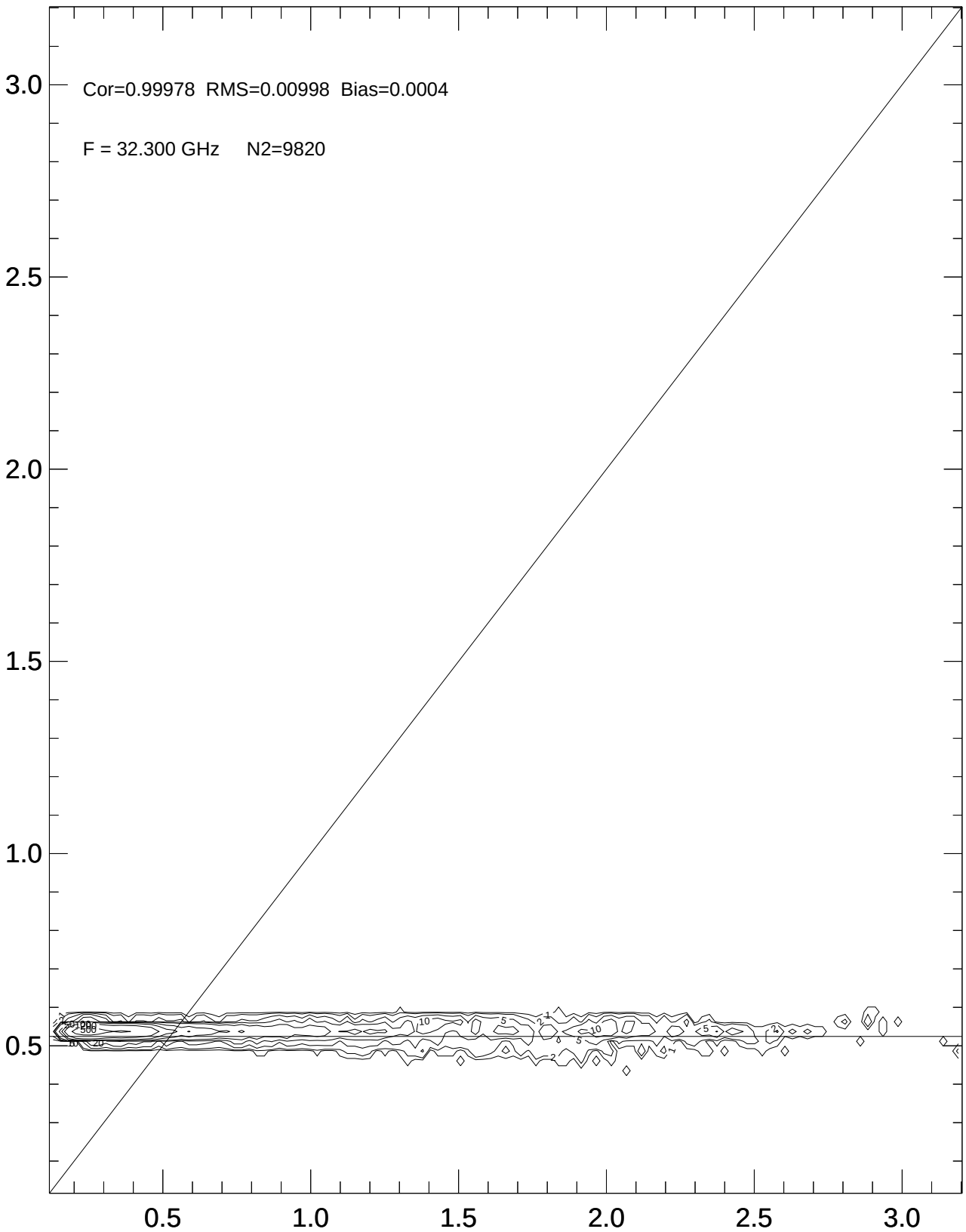

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0

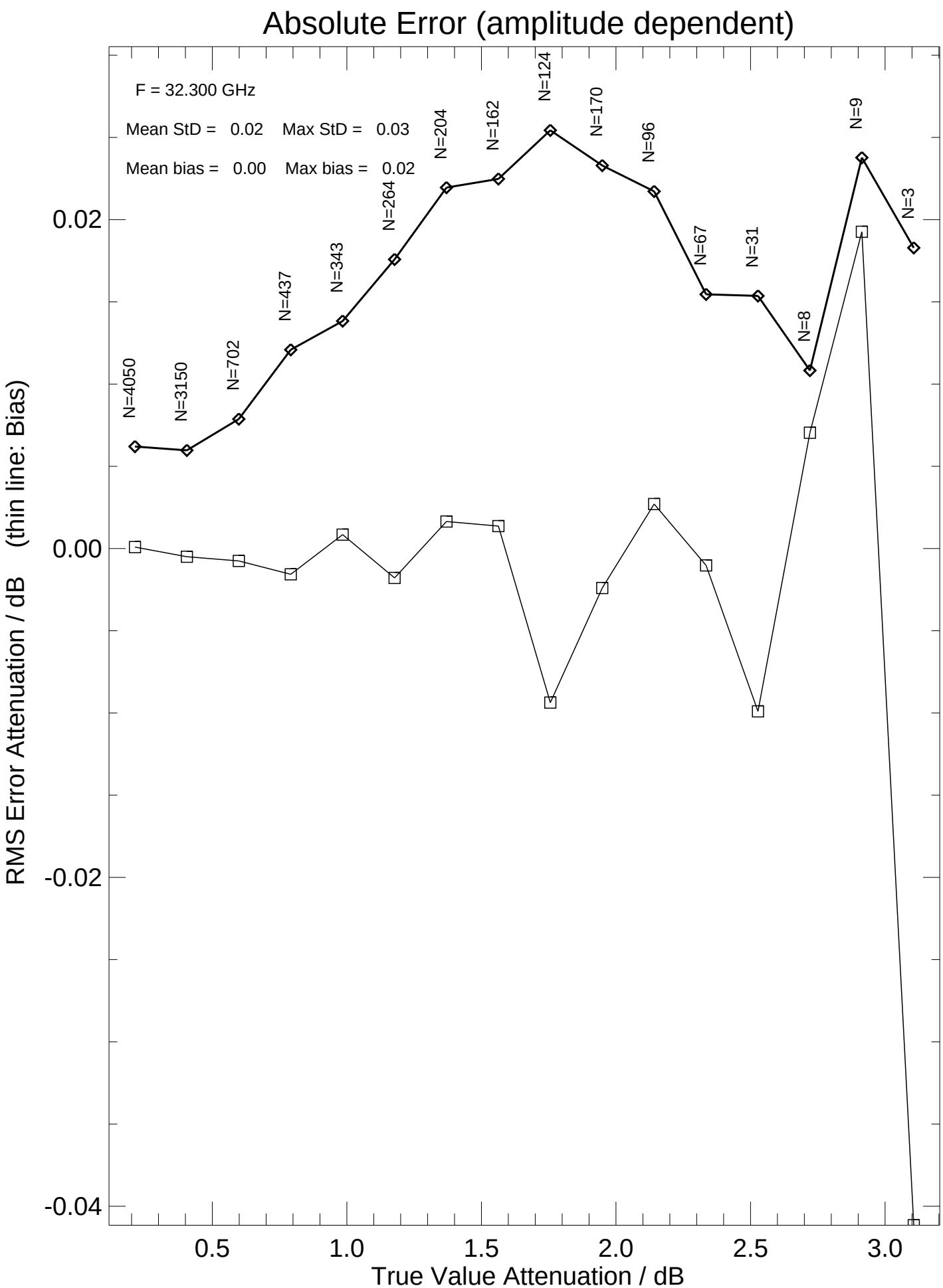

Cor=0.99977 RMS=0.00992 Bias=0.0004
F = 32.000 GHz N2=9820
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0

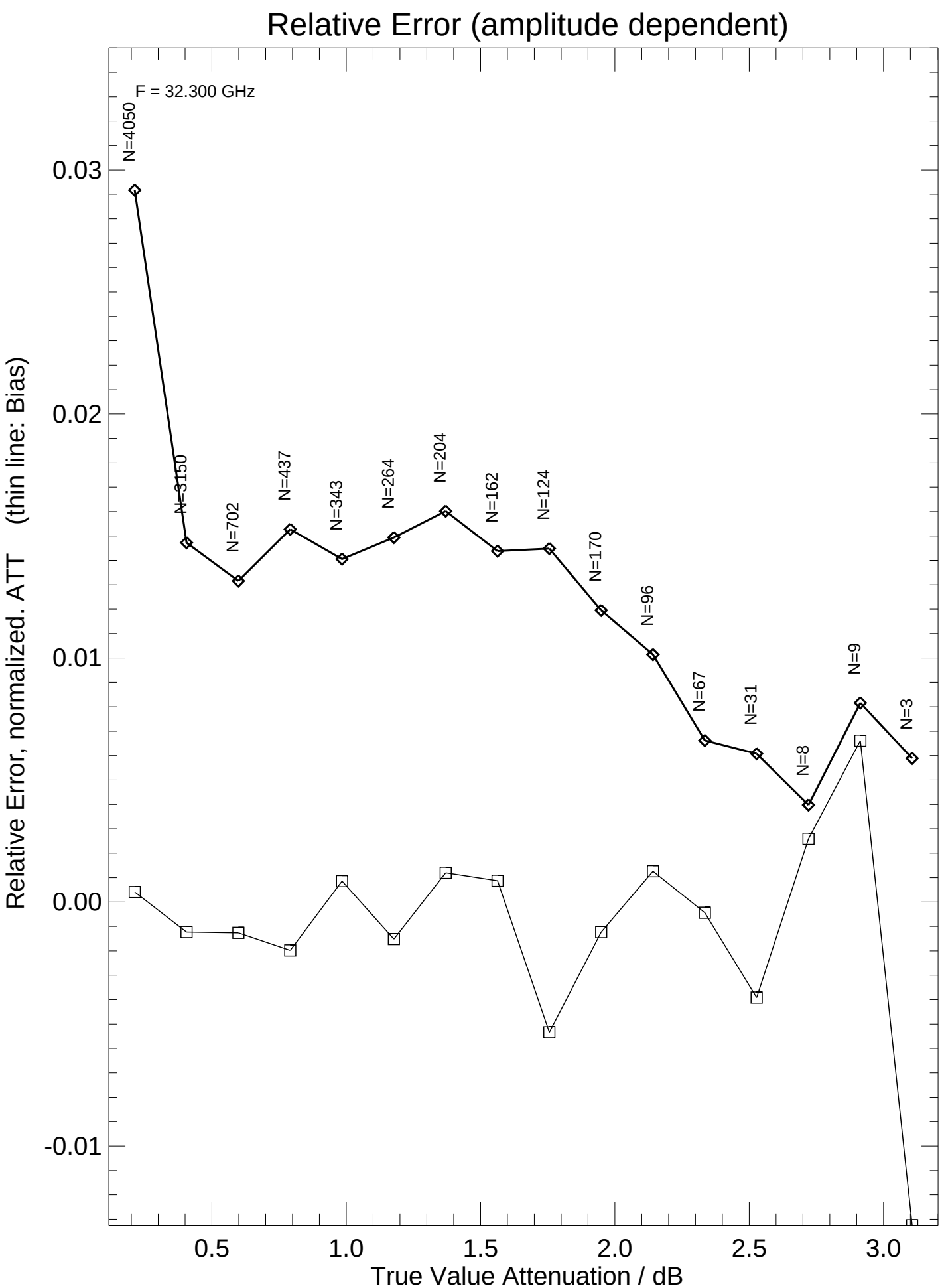

Absolute Error (amplitude dependent)
F = 32.000 GHz
Mean StD = 0.02 Max StD = 0.03
Mean bias = 0.00 Max bias = 0.02
N=3986
N=3193
N=709
N=445
N=347
N=264
N=204
N=163
N=125
N=170
N=96
N=68
N=30
N=8
N=9
N=3
0.02
0.00
-0.02
-0.04
0.5
1.0
1.5
2.0
2.5
3.0
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

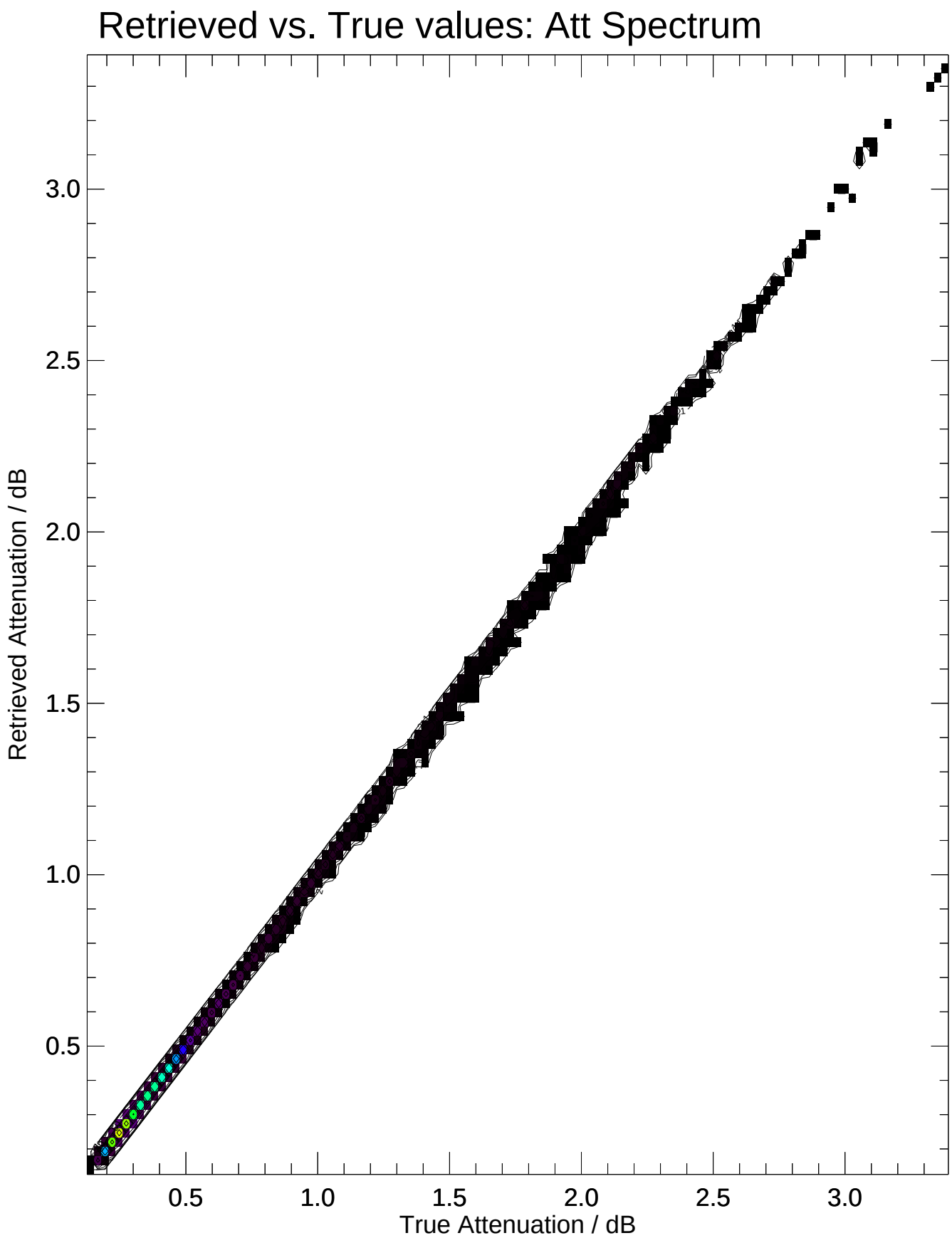

Relative Error (amplitude dependent)
F = 32.000 GHz
N=3986
N=3193
N=709
N=445
N=347
N=264
N=204
N=163
N=125
N=170
N=96
N=68
N=30
N=8
N=9
N=3
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
3.0
True Value Attenuation / dB

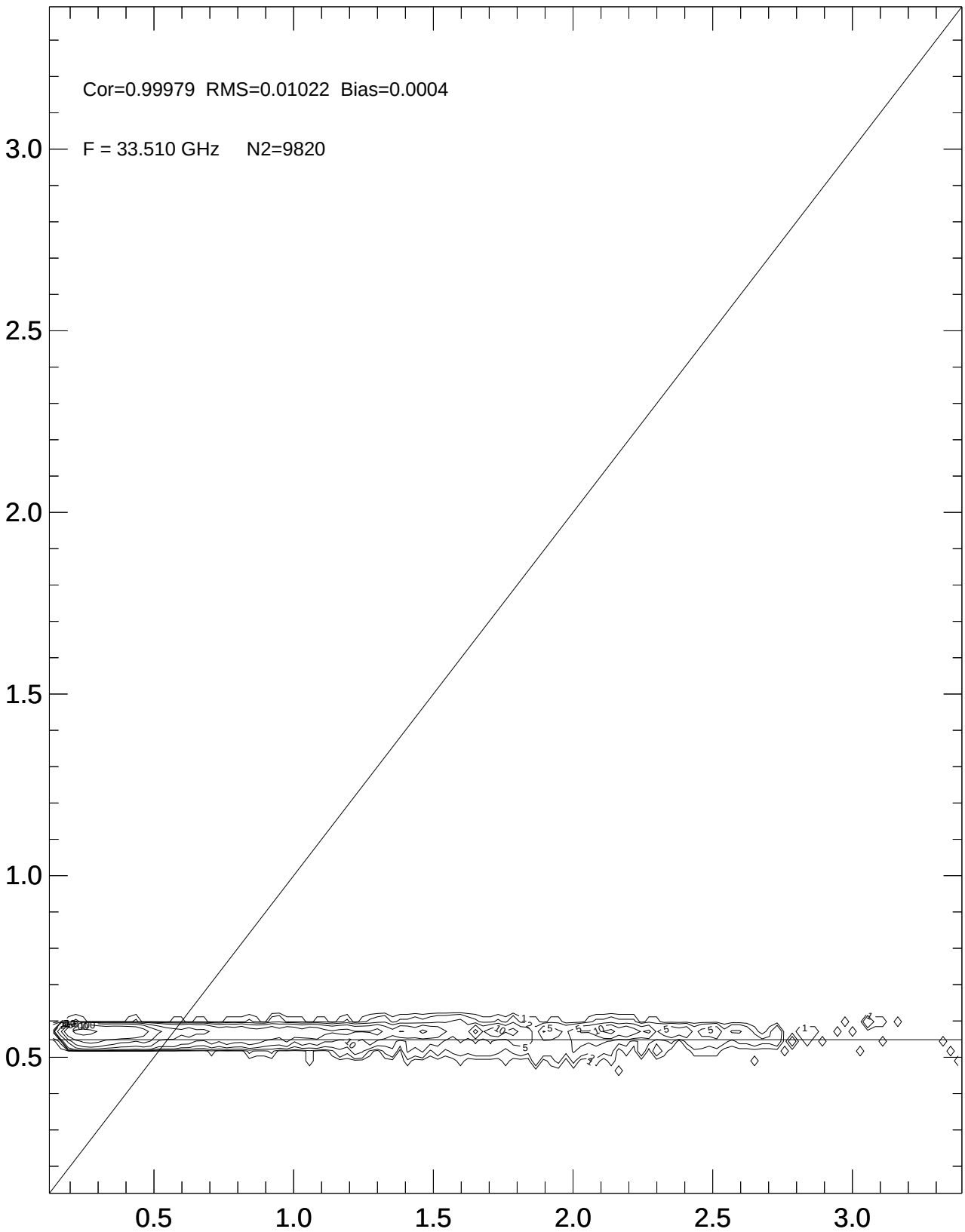

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0

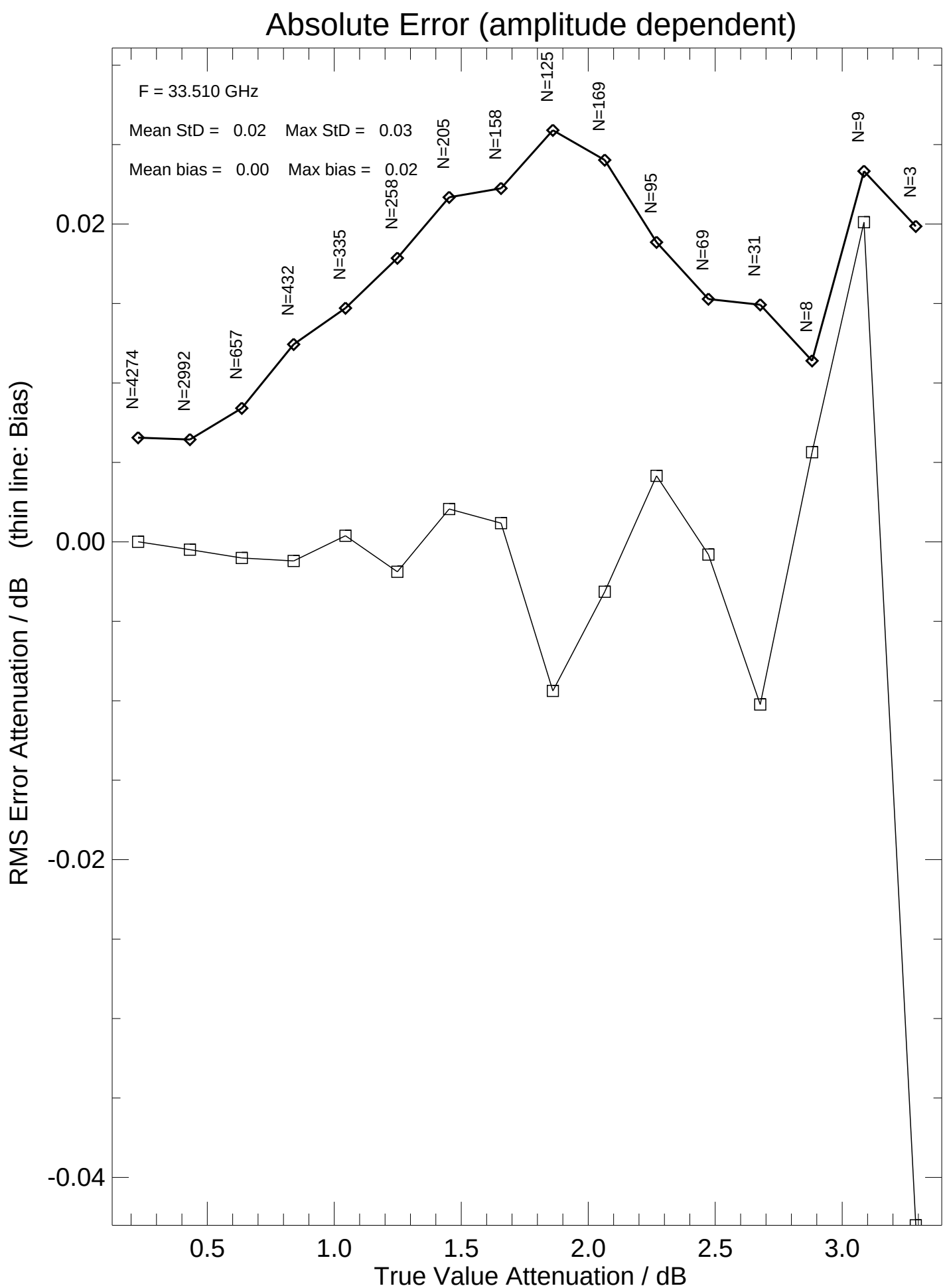

Cor=0.99978 RMS=0.00998 Bias=0.0004
F = 32.300 GHz N2=9820
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0

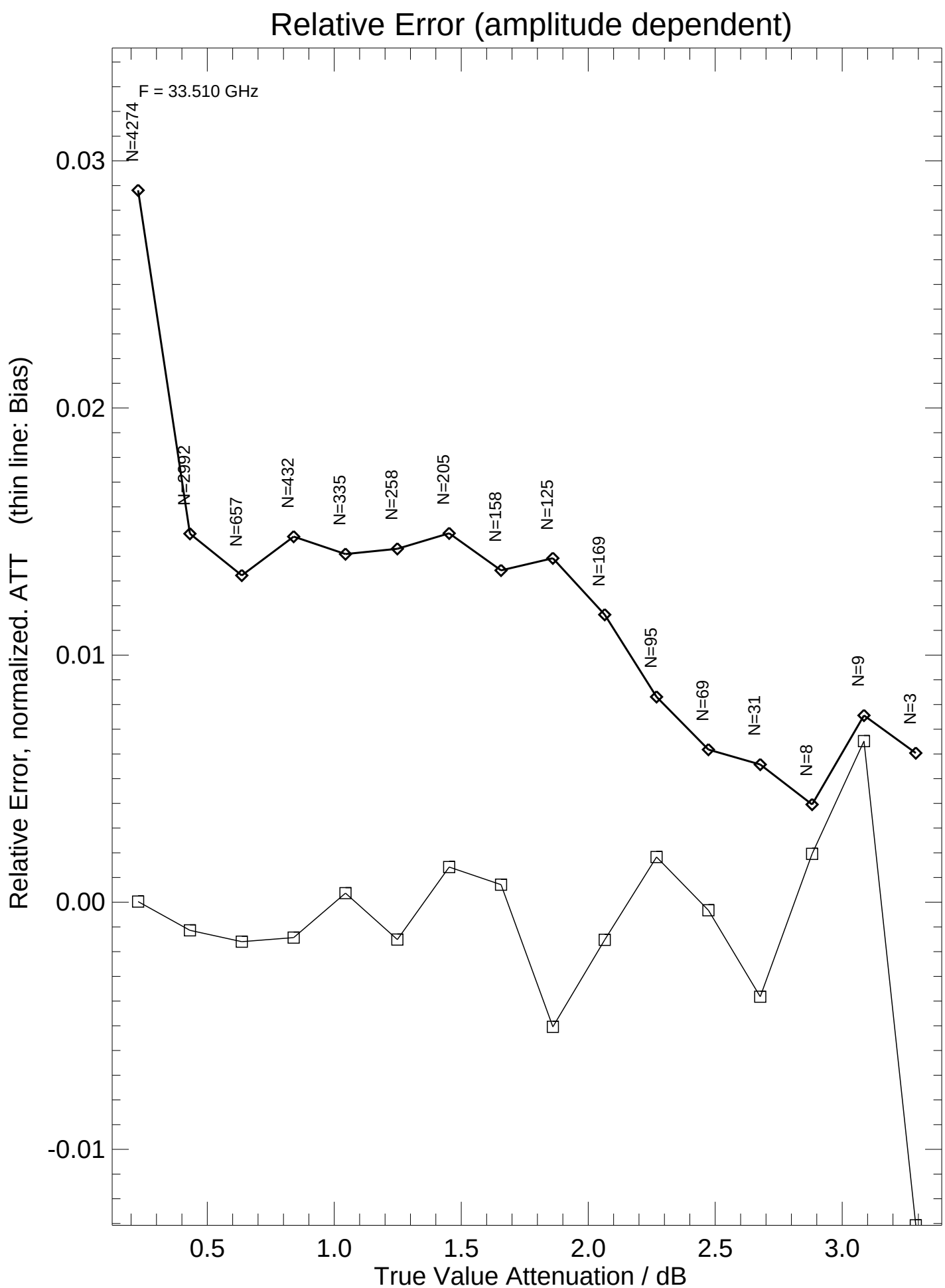

Absolute Error (amplitude dependent)
F = 32.300 GHz
Mean StD = 0.02 Max StD = 0.03
Mean bias = 0.00 Max bias = 0.02
N=4050
N=3150
N=702
N=437
N=343
N=264
N=204
N=162
N=124
N=170
N=96
N=67
N=31
N=8
N=9
N=3
0.02
0.00
-0.02
-0.04
0.5
1.0
1.5
2.0
2.5
3.0
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

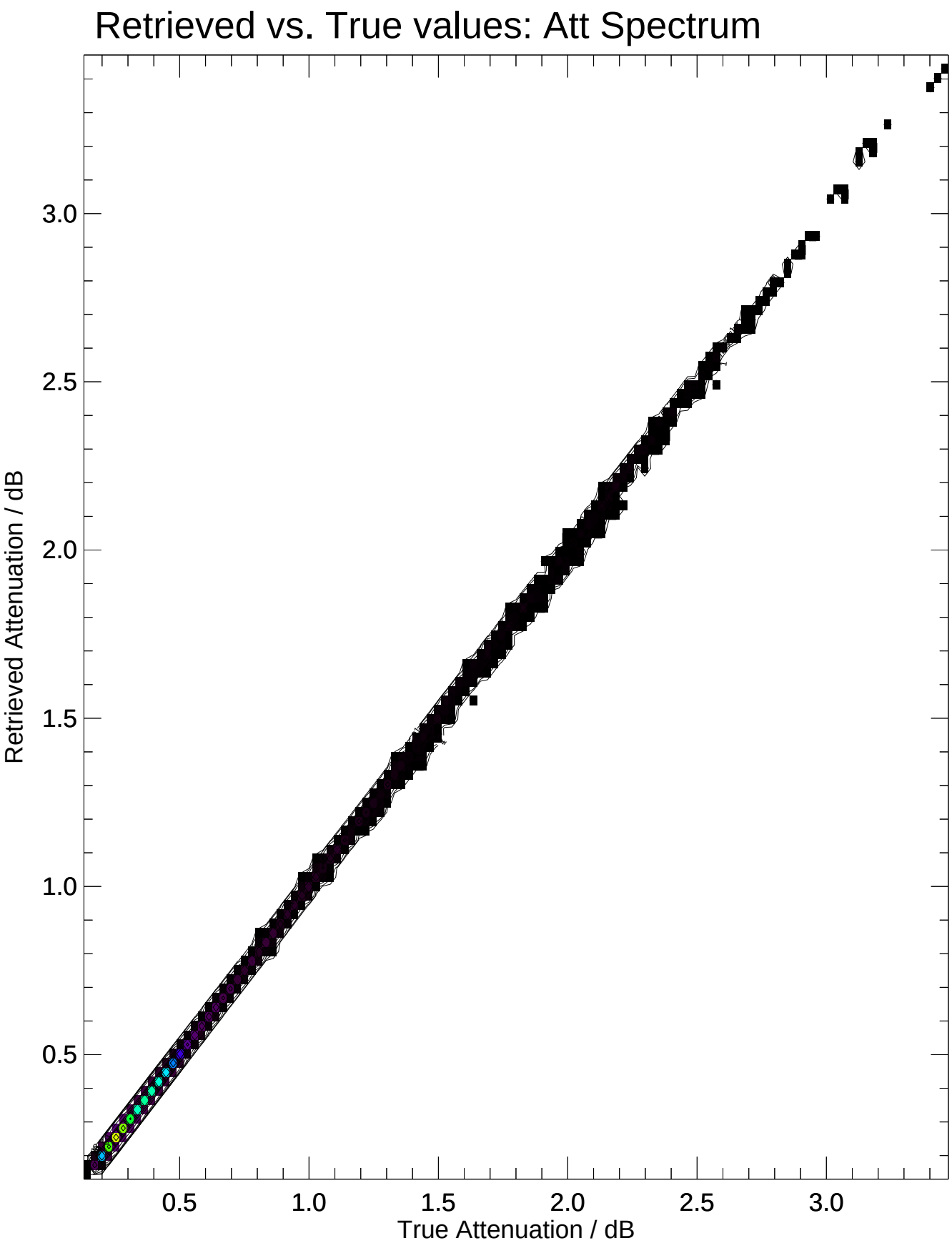

Relative Error (amplitude dependent)
F = 32.300 GHz
N=4050
N=3150
N=702
N=437
N=343
N=264
N=204
N=162
N=124
N=170
N=96
N=67
N=31
N=8
N=9
N=3
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
3.0
True Value Attenuation / dB

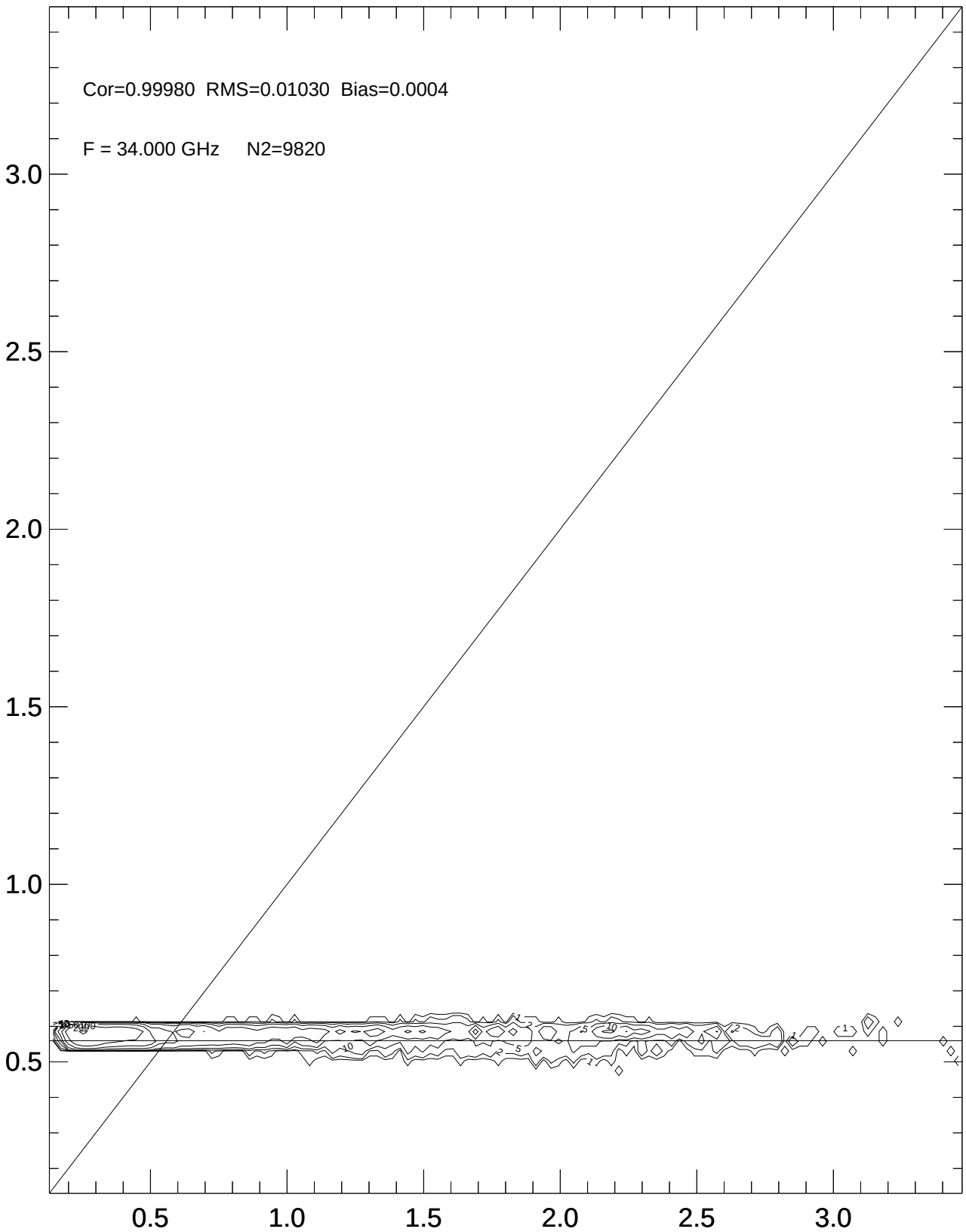

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0

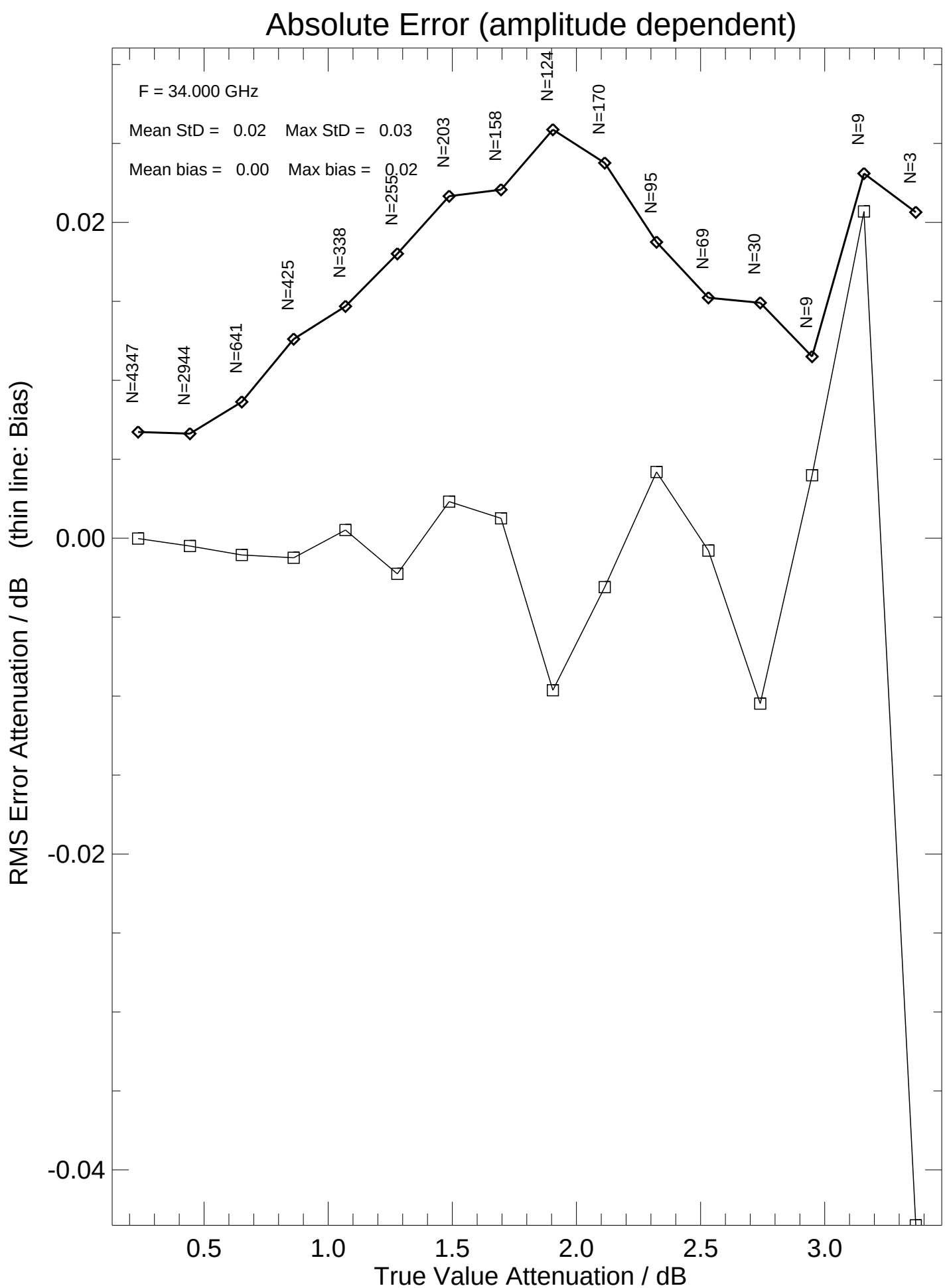

Cor=0.99979 RMS=0.01022 Bias=0.0004
F = 33.510 GHz N2=9820
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0

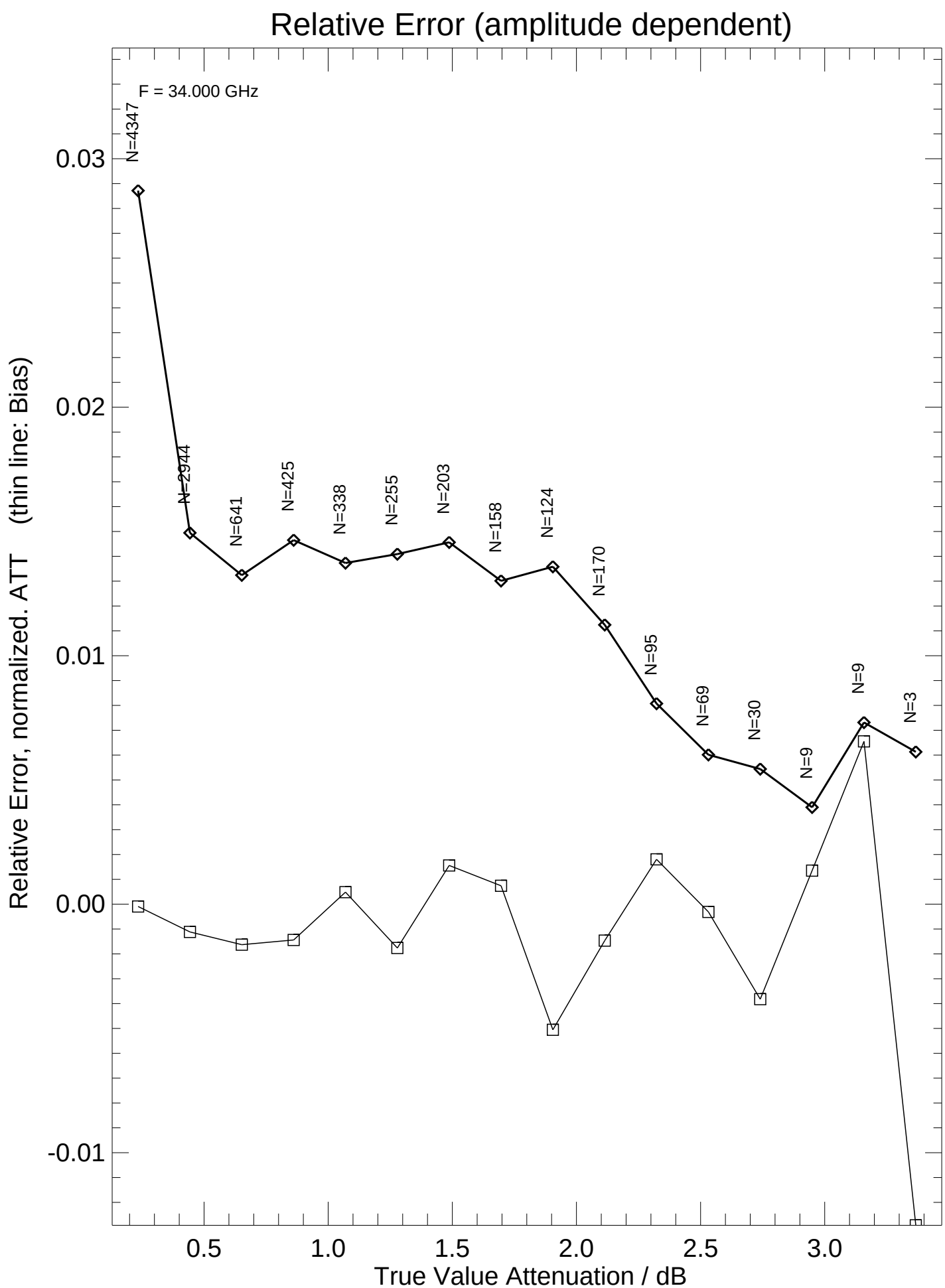

Absolute Error (amplitude dependent)
F = 33.510 GHz
Mean StD = 0.02 Max StD = 0.03
Mean bias = 0.00 Max bias = 0.02
N=4274
N=2992
N=657
N=432
N=335
N=258
N=205
N=158
N=125
N=169
N=95
N=69
N=31
N=8
N=9
N=3
0.02
0.00
-0.02
-0.04
RMS Error Attenuation / dB (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
3.0
True Value Attenuation / dB

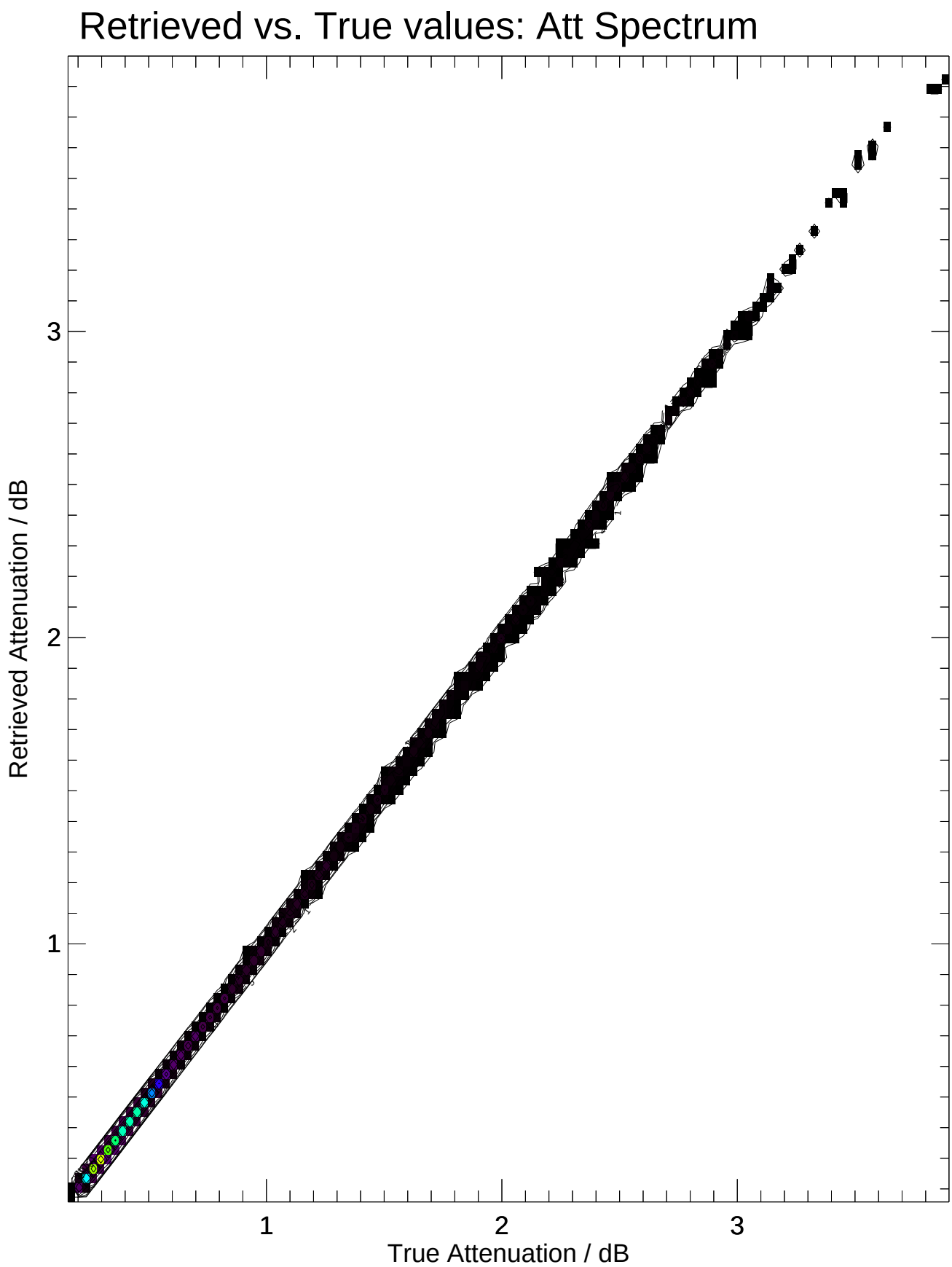

Relative Error (amplitude dependent)
F = 33.510 GHz
N=4274
N=2992
N=657
N=432
N=335
N=258
N=205
N=158
N=125
N=169
N=95
N=69
N=31
N=8
N=9
N=3
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
0.5
1.0
1.5
2.0
2.5
3.0
True Value Attenuation / dB

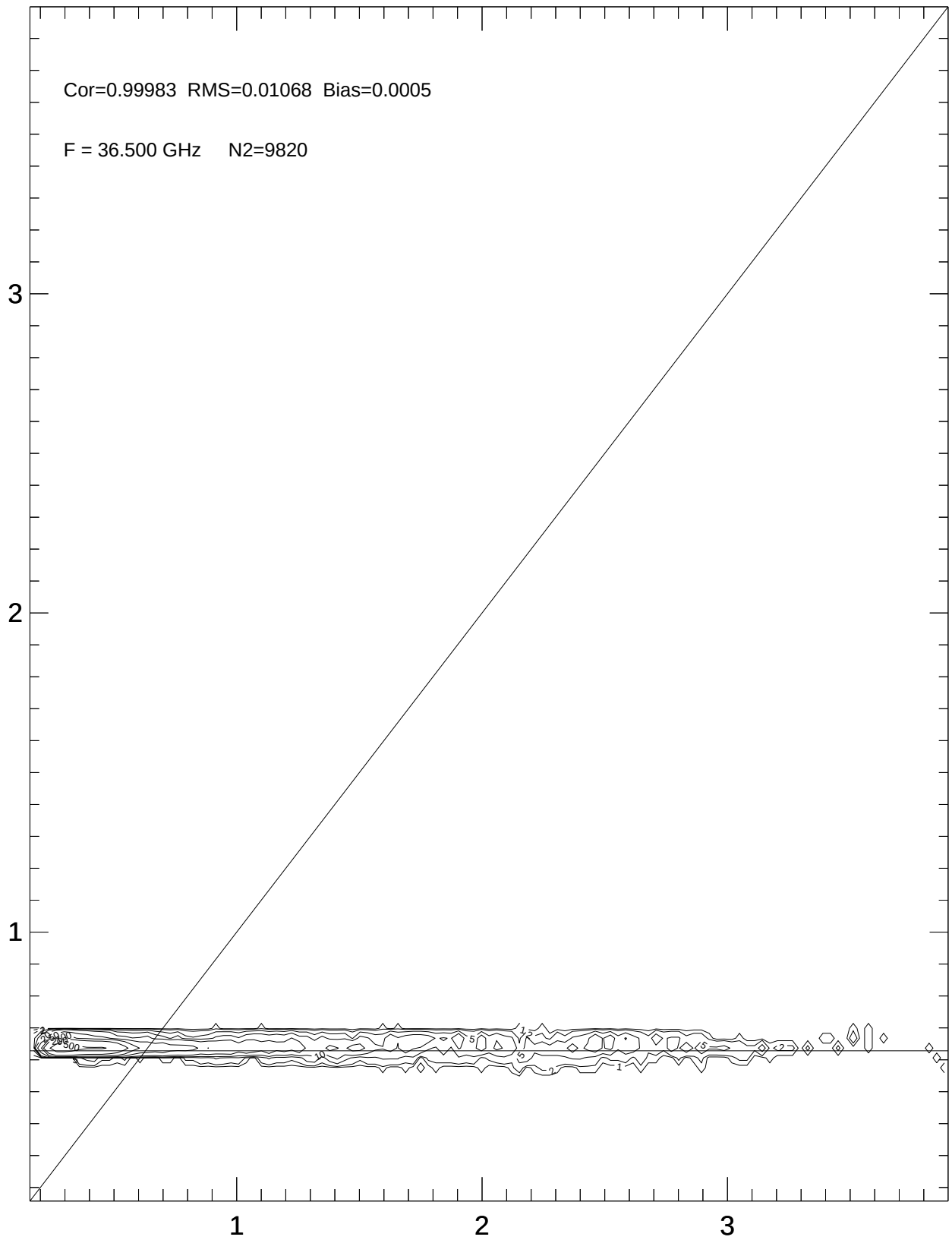

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
0.5
1.0
1.5
2.0
2.5
3.0

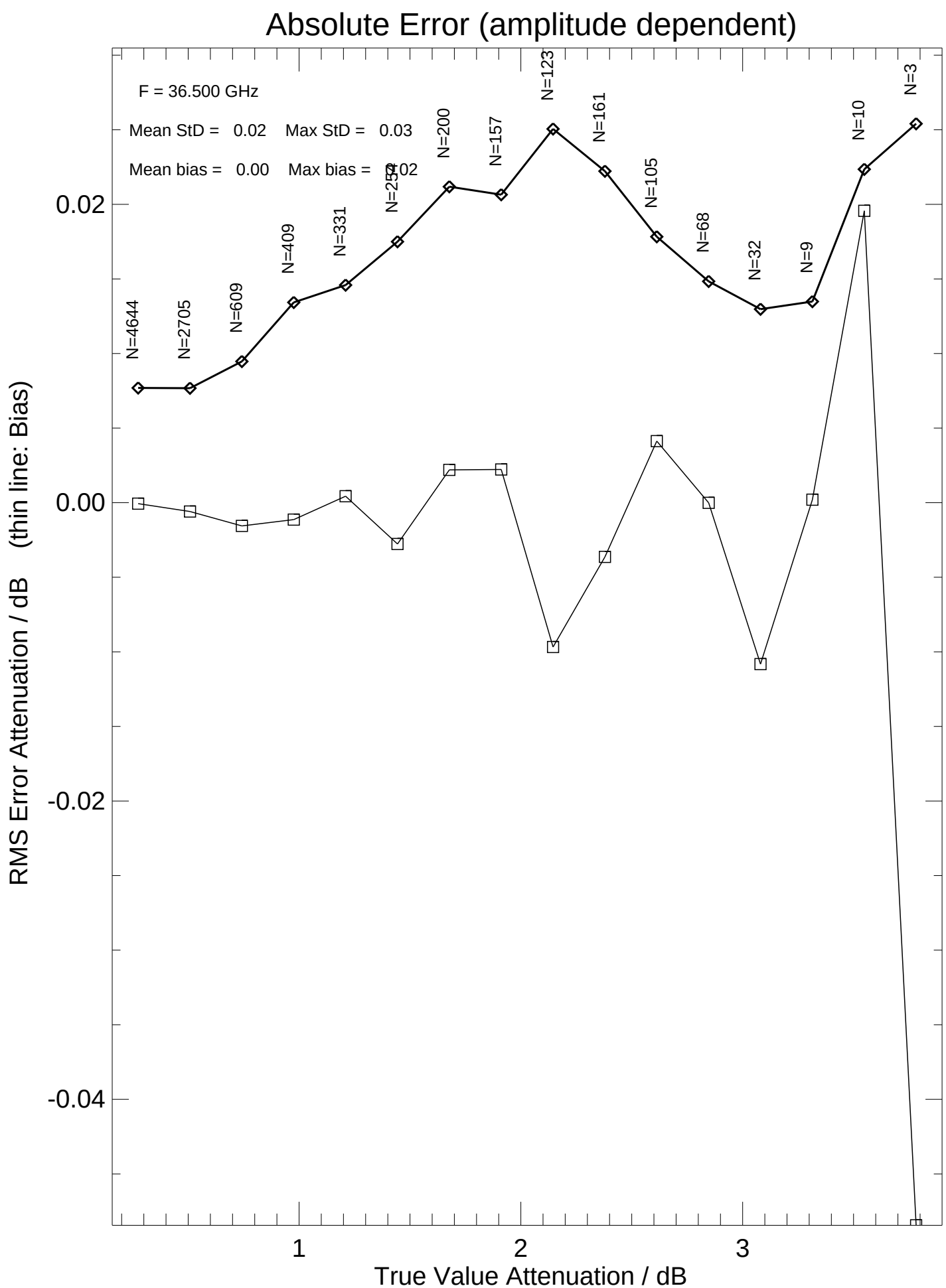

Cor=0.99980 RMS=0.01030 Bias=0.0004
F = 34.000 GHz N2=9820
3.0
2.5
2.0
1.5
1.0
0.5
0.5
1.0
1.5
2.0
2.5
3.0

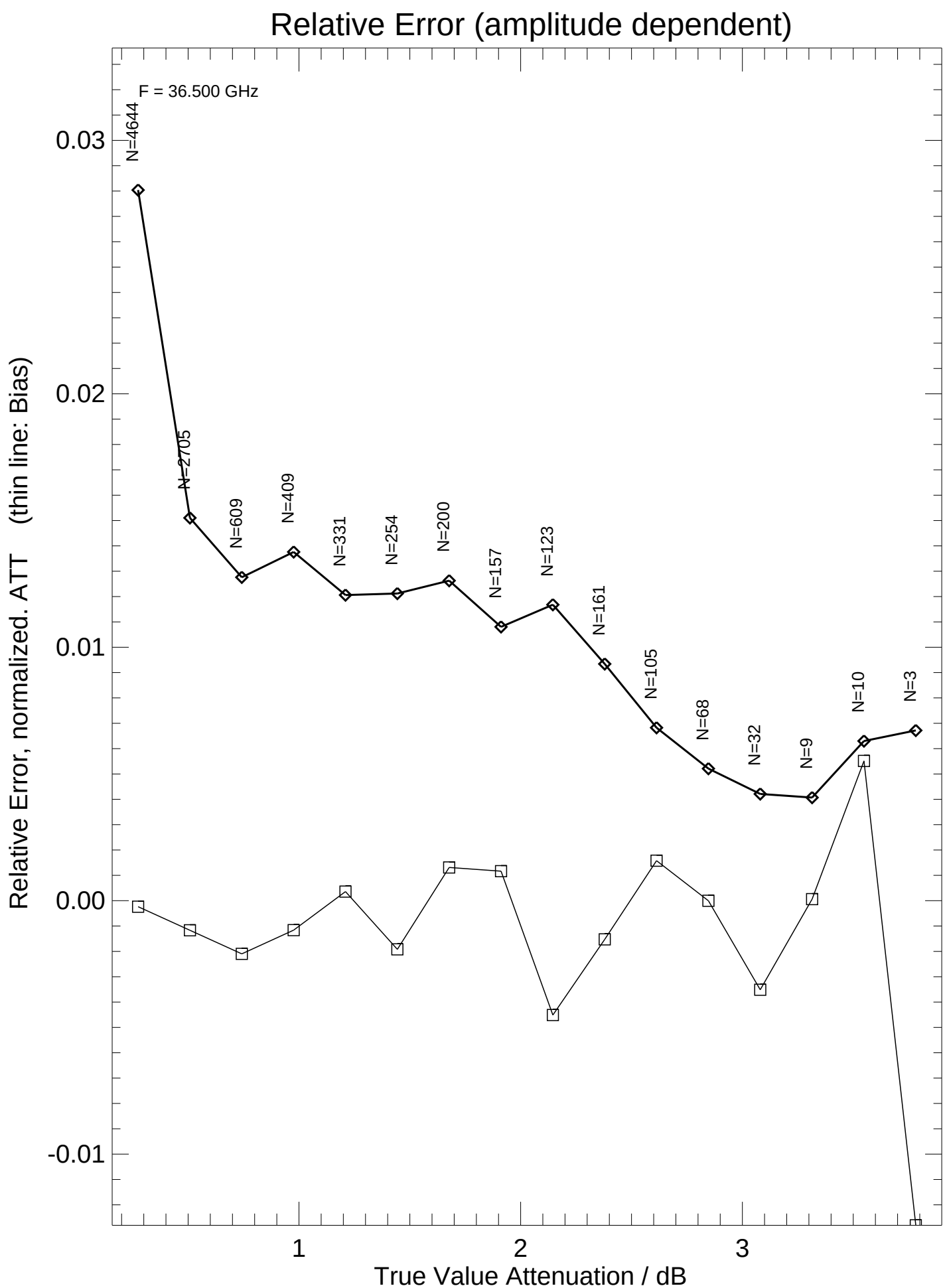

Absolute Error (amplitude dependent)
F = 34.000 GHz
Mean StD = 0.02 Max StD = 0.03
Mean bias = 0.00 Max bias = 0.02
N=4347
N=2944
N=641
N=425
N=338
N=255
N=203
N=158
N=124
N=170
N=95
N=69
N=30
N=9
N=9
N=3
0.02
0.00
-0.02
-0.04
0.5
1.0
1.5
2.0
2.5
3.0
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

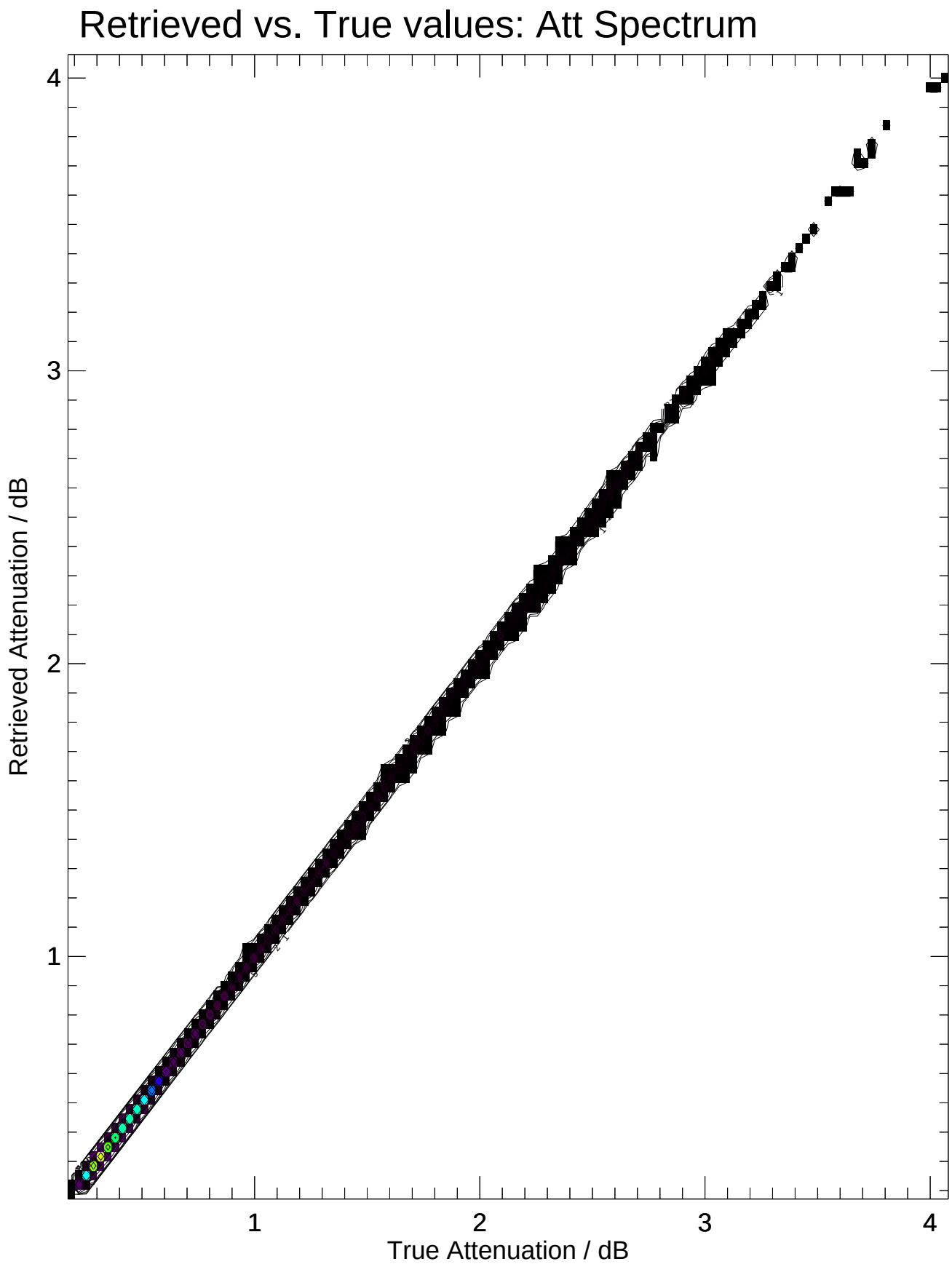

Relative Error (amplitude dependent)
F = 34.000 GHz
N=4347
N=2944
N=641
N=425
N=338
N=255
N=203
N=158
N=124
N=170
N=95
N=69
N=30
N=9
N=9
N=3
0.03
0.02
0.01
0.00
-0.01
0.5
1.0
1.5
2.0
2.5
3.0
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

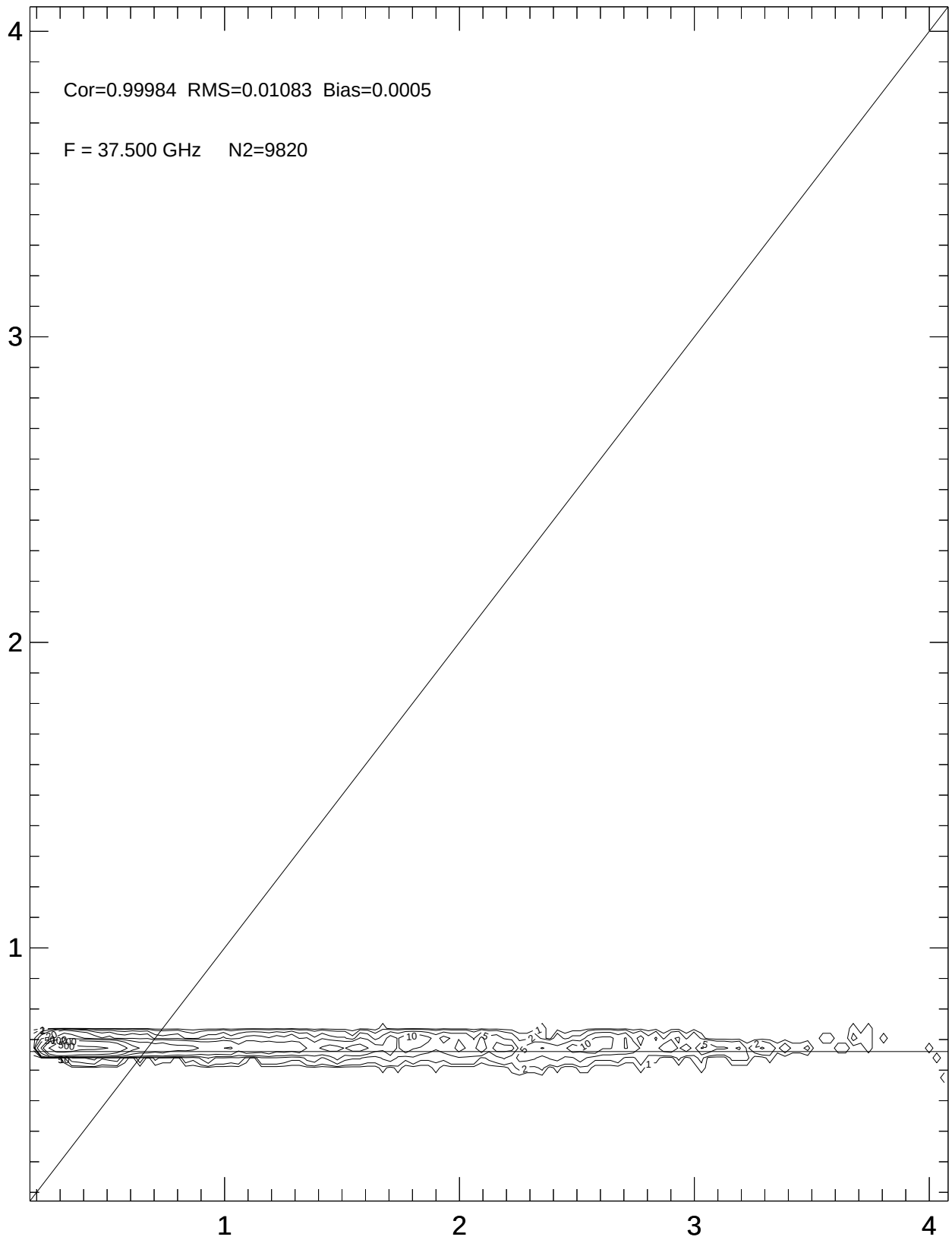

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
1
2
3
1
2
3

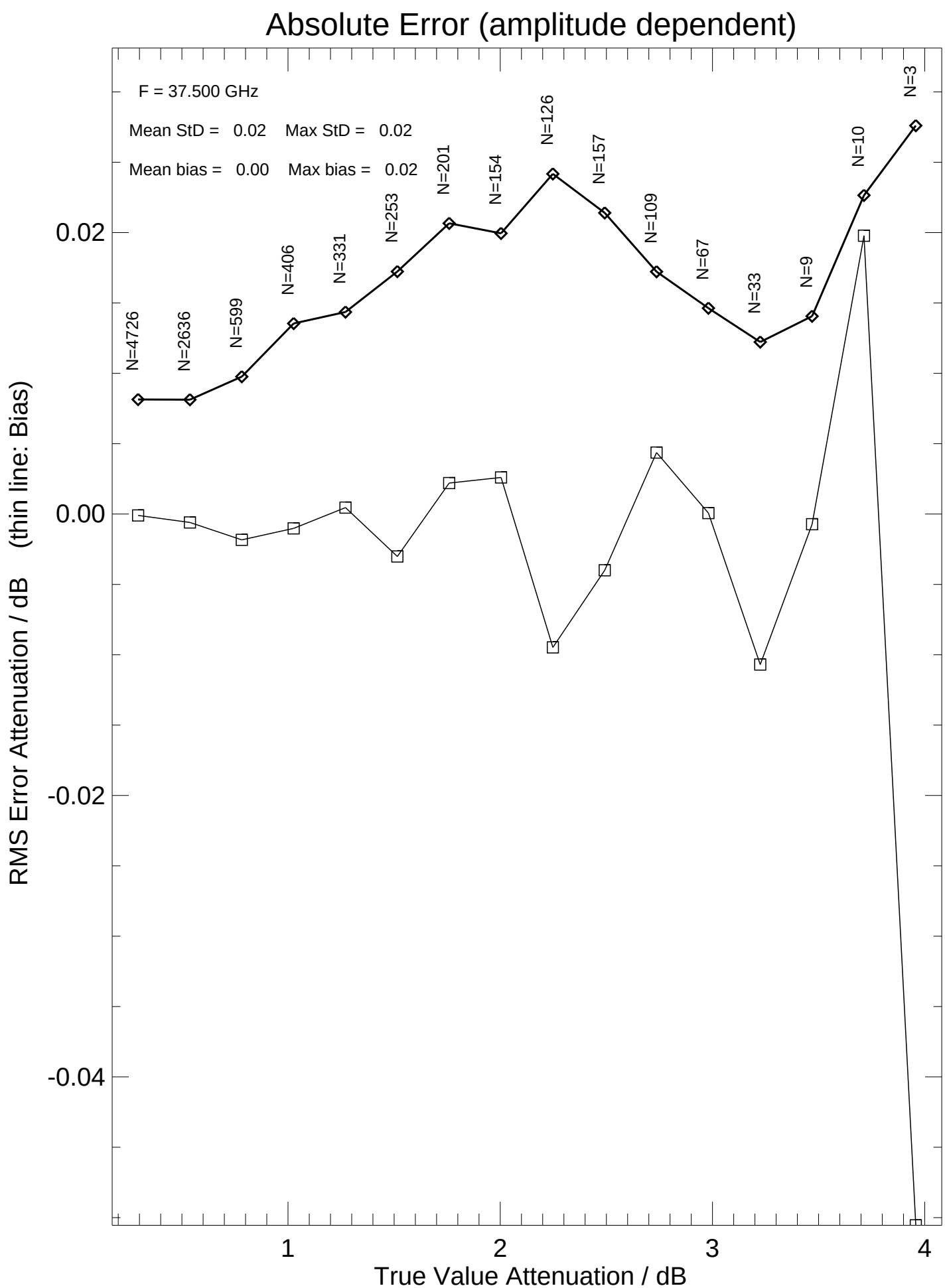

Cor=0.99983 RMS=0.01068 Bias=0.0005
F = 36.500 GHz N2=9820
3
2
1
1
2
3

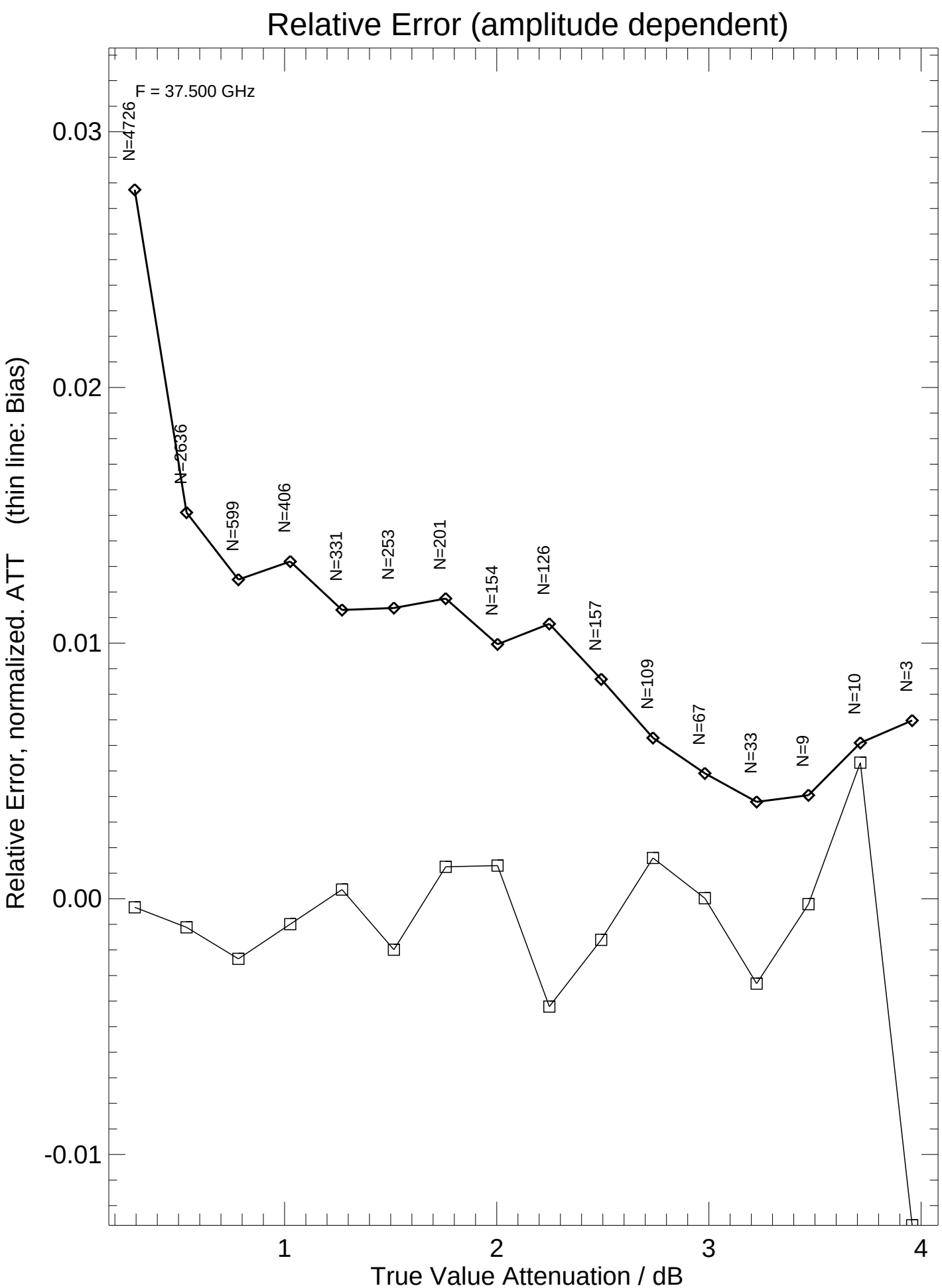

Absolute Error (amplitude dependent)
F = 36.500 GHz
Mean StD = 0.02 Max StD = 0.03
Mean bias = 0.00 Max bias = 0.02
N=4644
N=2705
N=609
N=409
N=331
N=252
N=200
N=157
N=123
N=161
N=105
N=68
N=32
N=9
N=10
N=3
0.02
0.00
-0.02
-0.04
RMS Error Attenuation / dB (thin line: Bias)
1
2
3
True Value Attenuation / dB

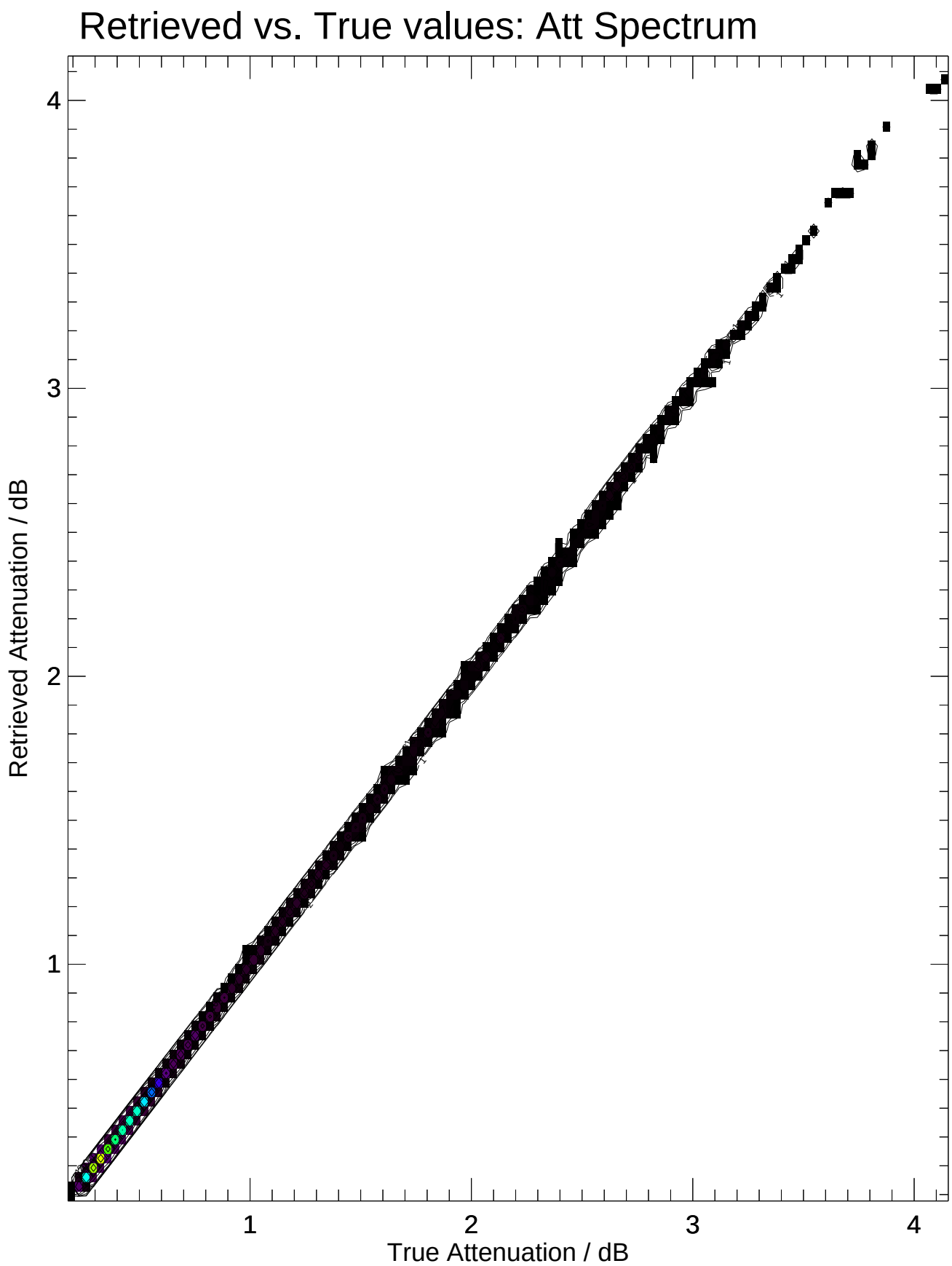

Relative Error (amplitude dependent)
F = 36.500 GHz
N=4644
N=2705
N=609
N=409
N=331
N=254
N=200
N=157
N=123
N=161
N=105
N=68
N=32
N=9
N=10
N=3
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
1
2
3
True Value Attenuation / dB

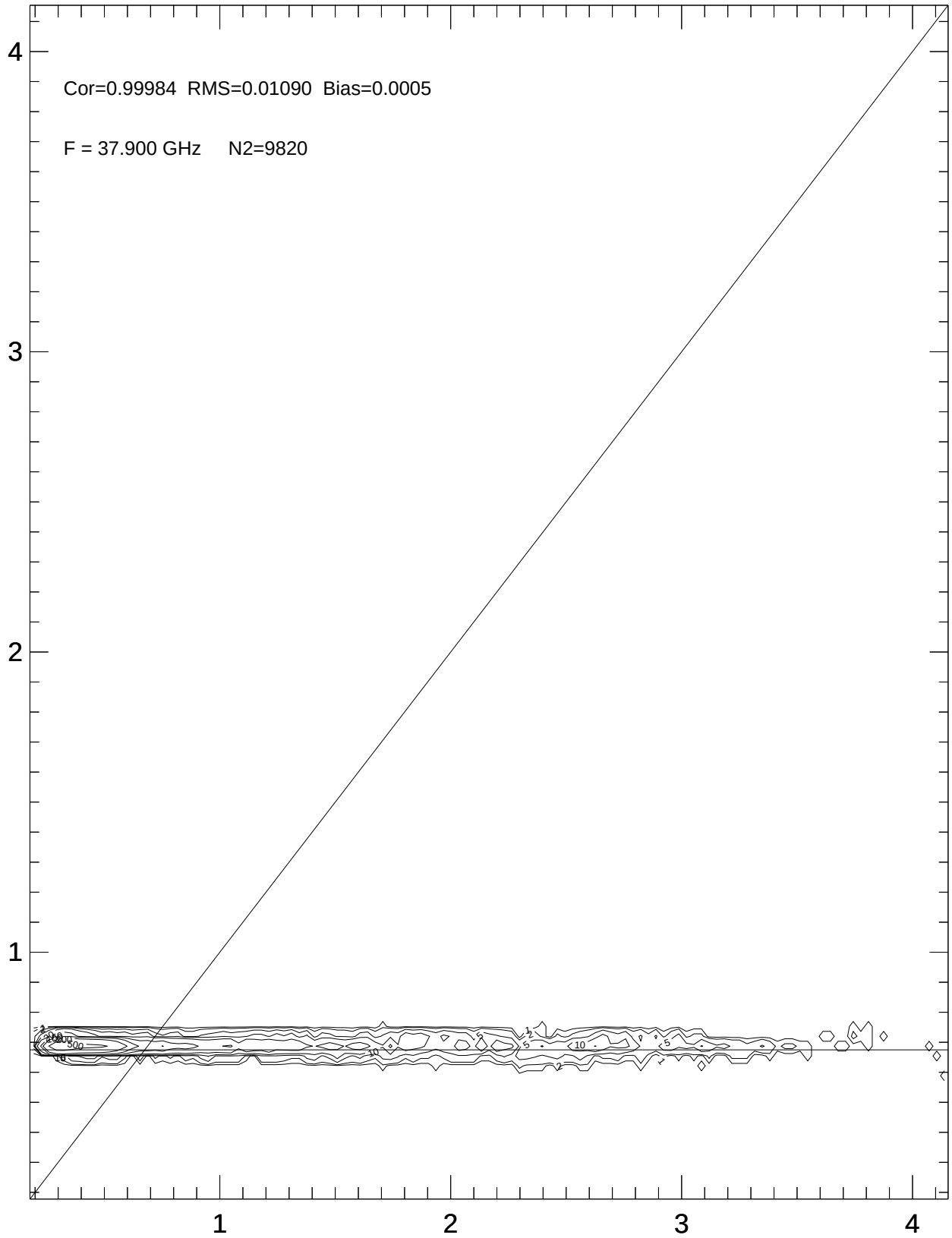

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
1
2
3
4
1
2
3
4

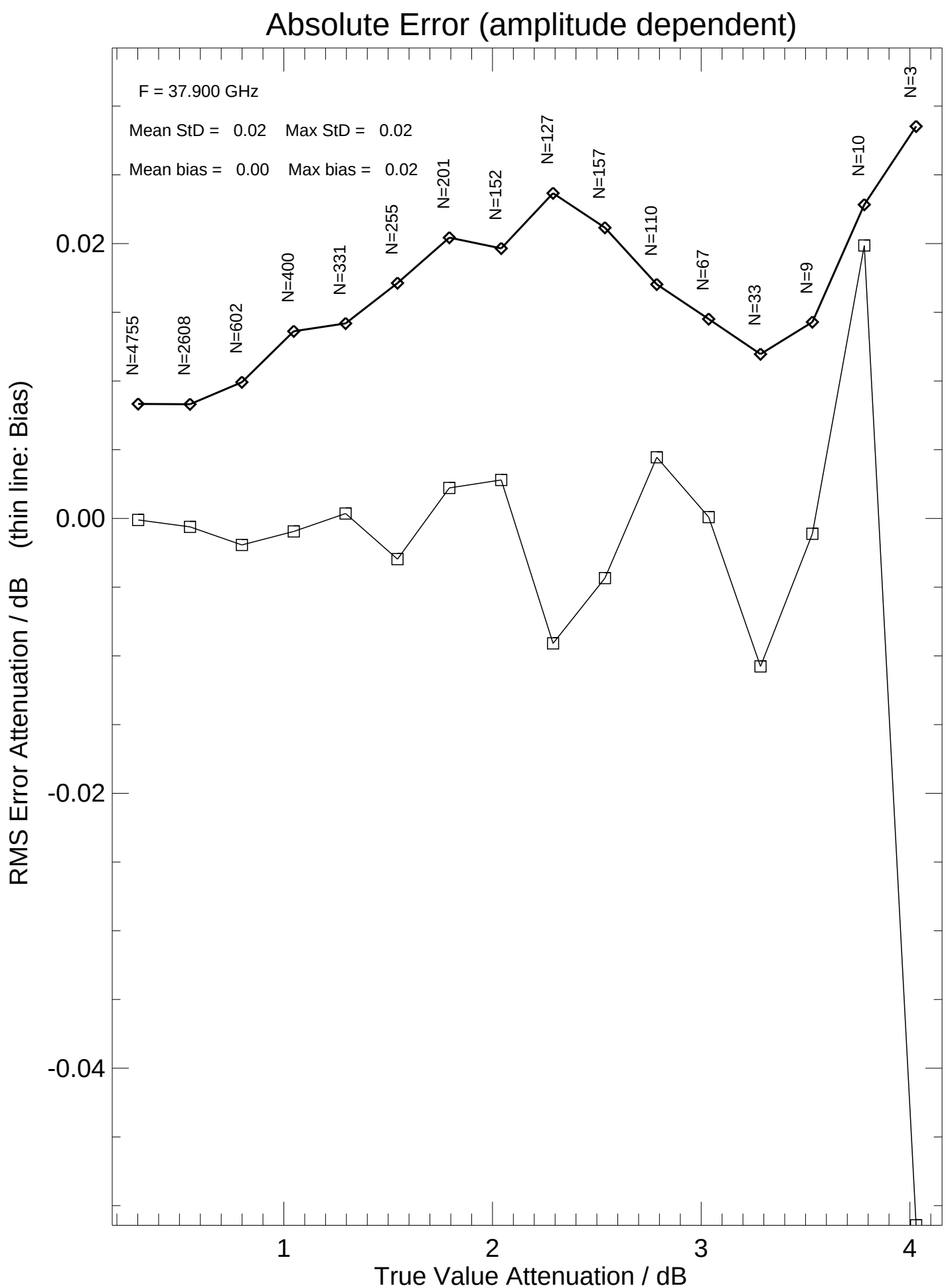

Cor=0.99984 RMS=0.01083 Bias=0.0005
F = 37.500 GHz N2=9820
4
3
2
1
1
2
3
4

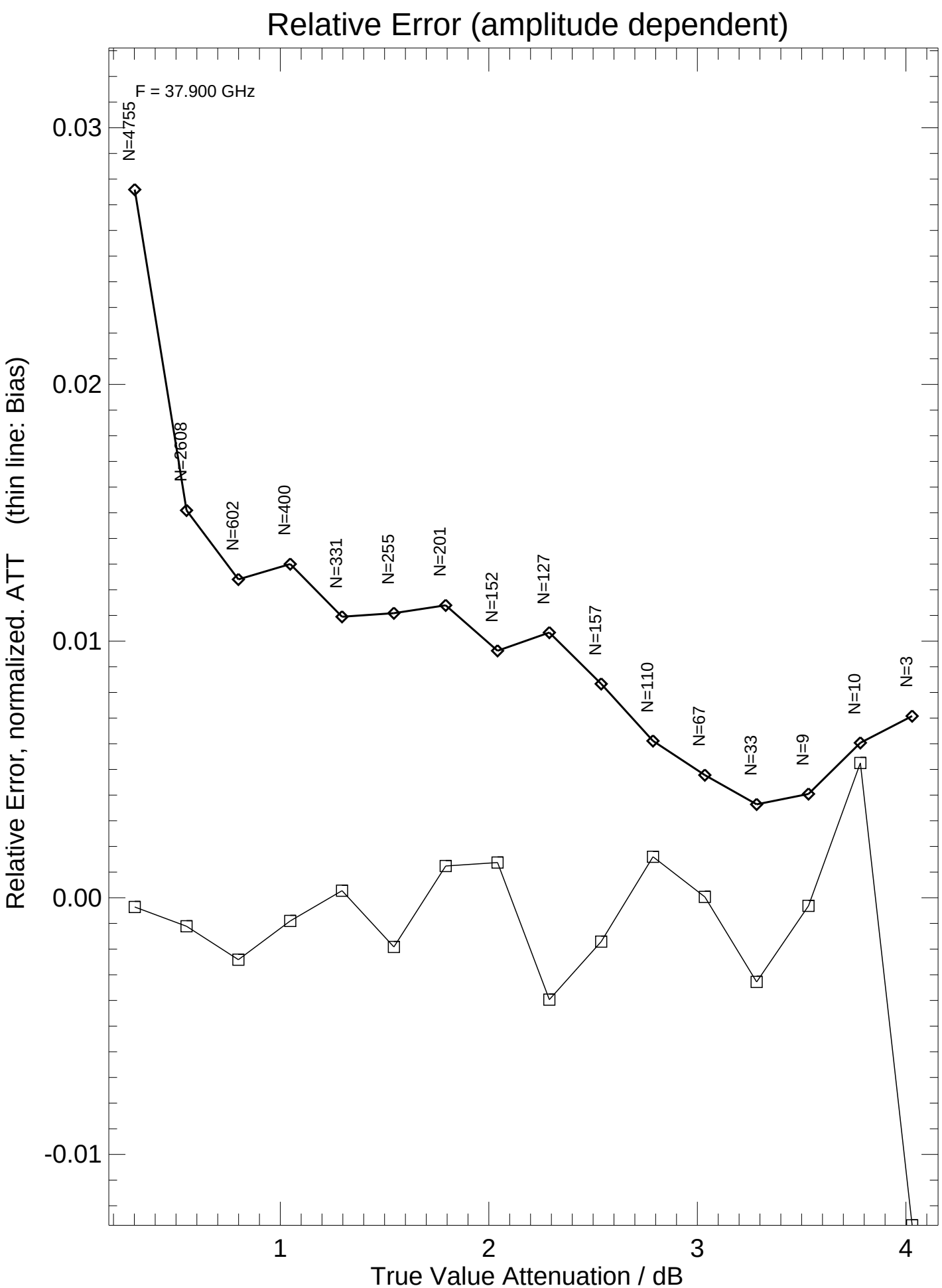

Absolute Error (amplitude dependent)
F = 37.500 GHz
Mean StD = 0.02 Max StD = 0.02
Mean bias = 0.00 Max bias = 0.02
N=4726
N=2636
N=599
N=406
N=331
N=253
N=201
N=154
N=126
N=157
N=109
N=67
N=33
N=9
N=10
N=3
0.02
0.00
-0.02
-0.04
RMS Error Attenuation / dB (thin line: Bias)
1
2
3
4
True Value Attenuation / dB

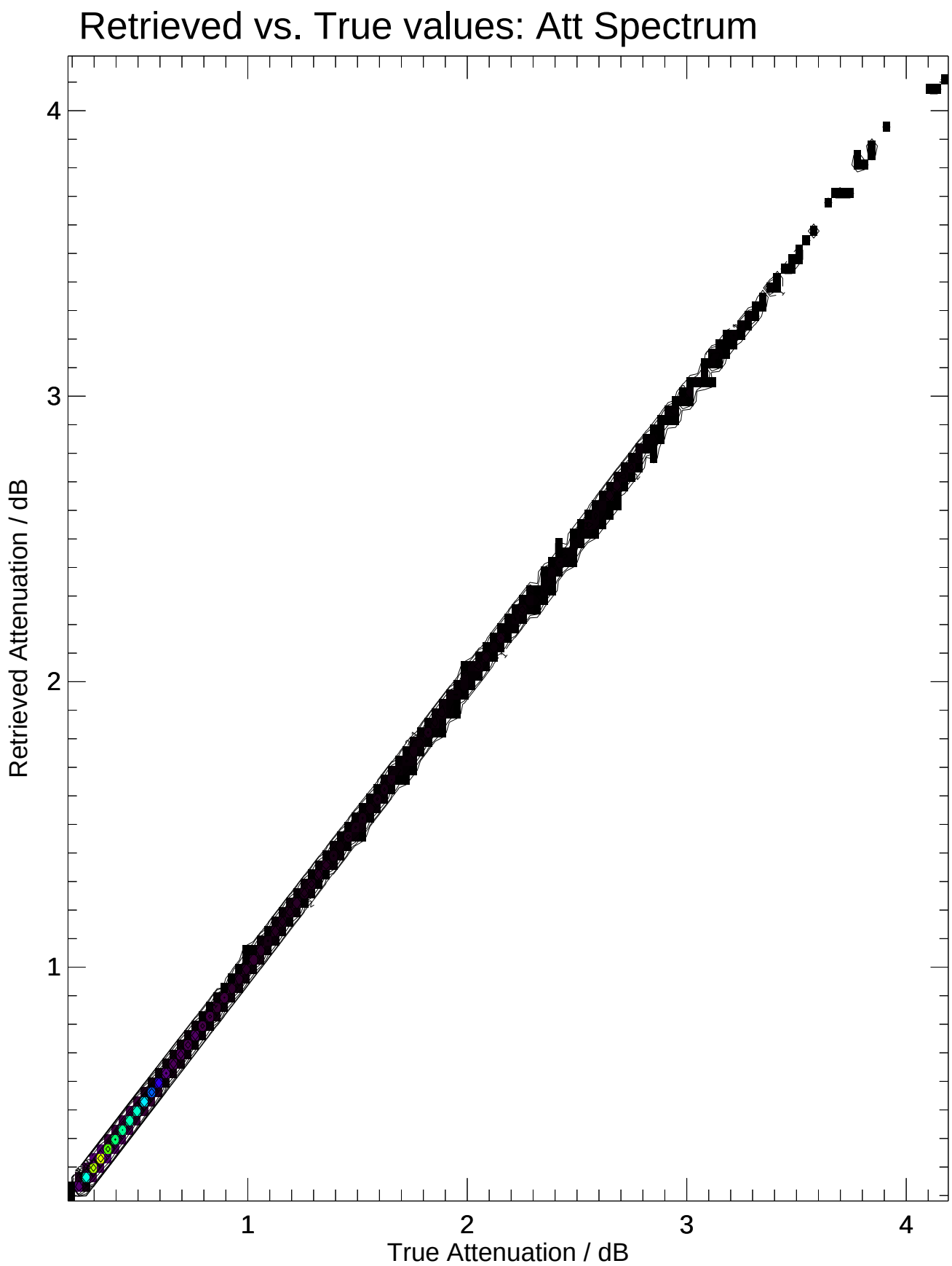

Relative Error (amplitude dependent)
F = 37.500 GHz
N=4726
N=2636
N=599
N=406
N=331
N=253
N=201
N=154
N=126
N=157
N=109
N=67
N=33
N=9
N=10
N=3
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
1
2
3
4
True Value Attenuation / dB

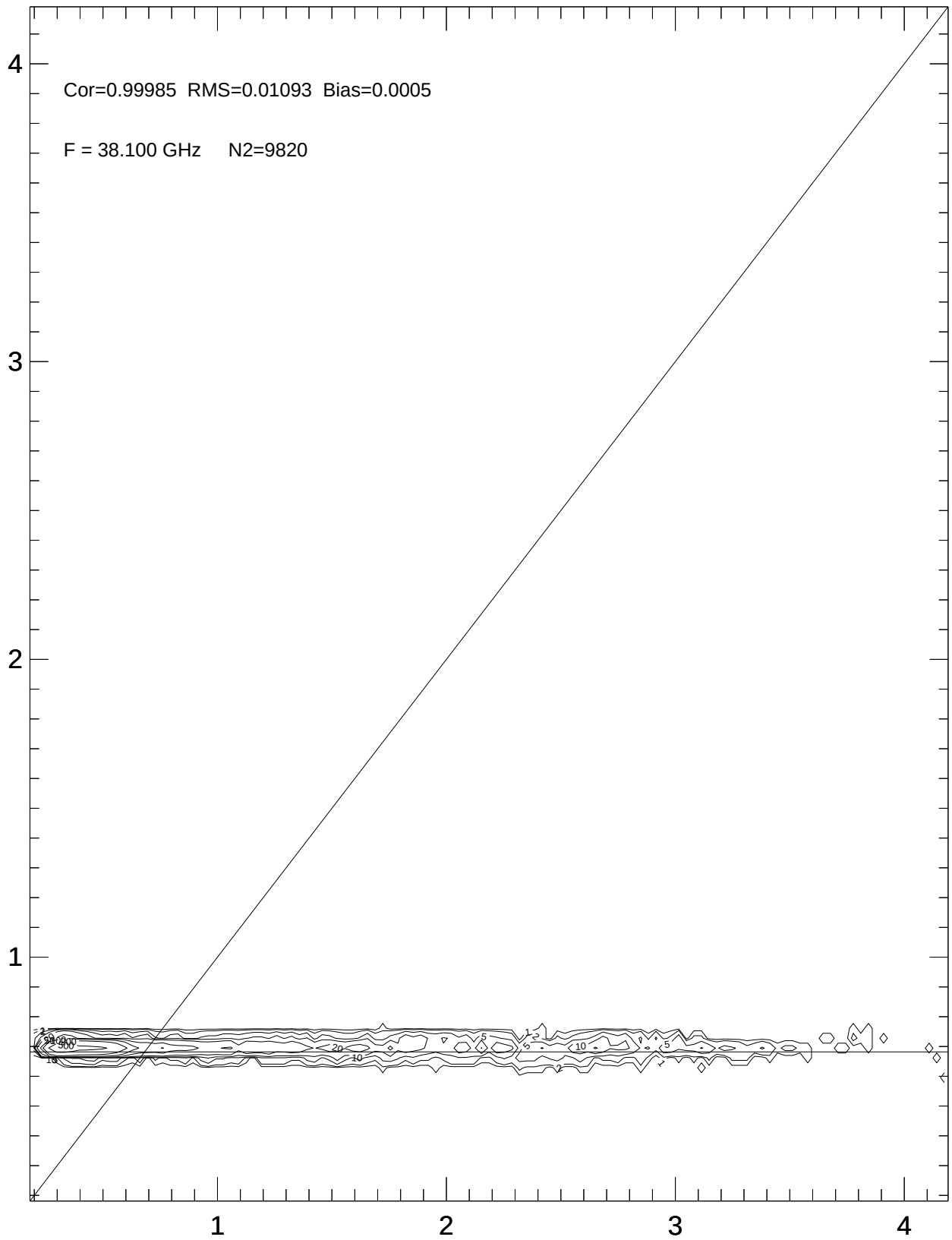

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
1
2
3
4
1
2
3
4

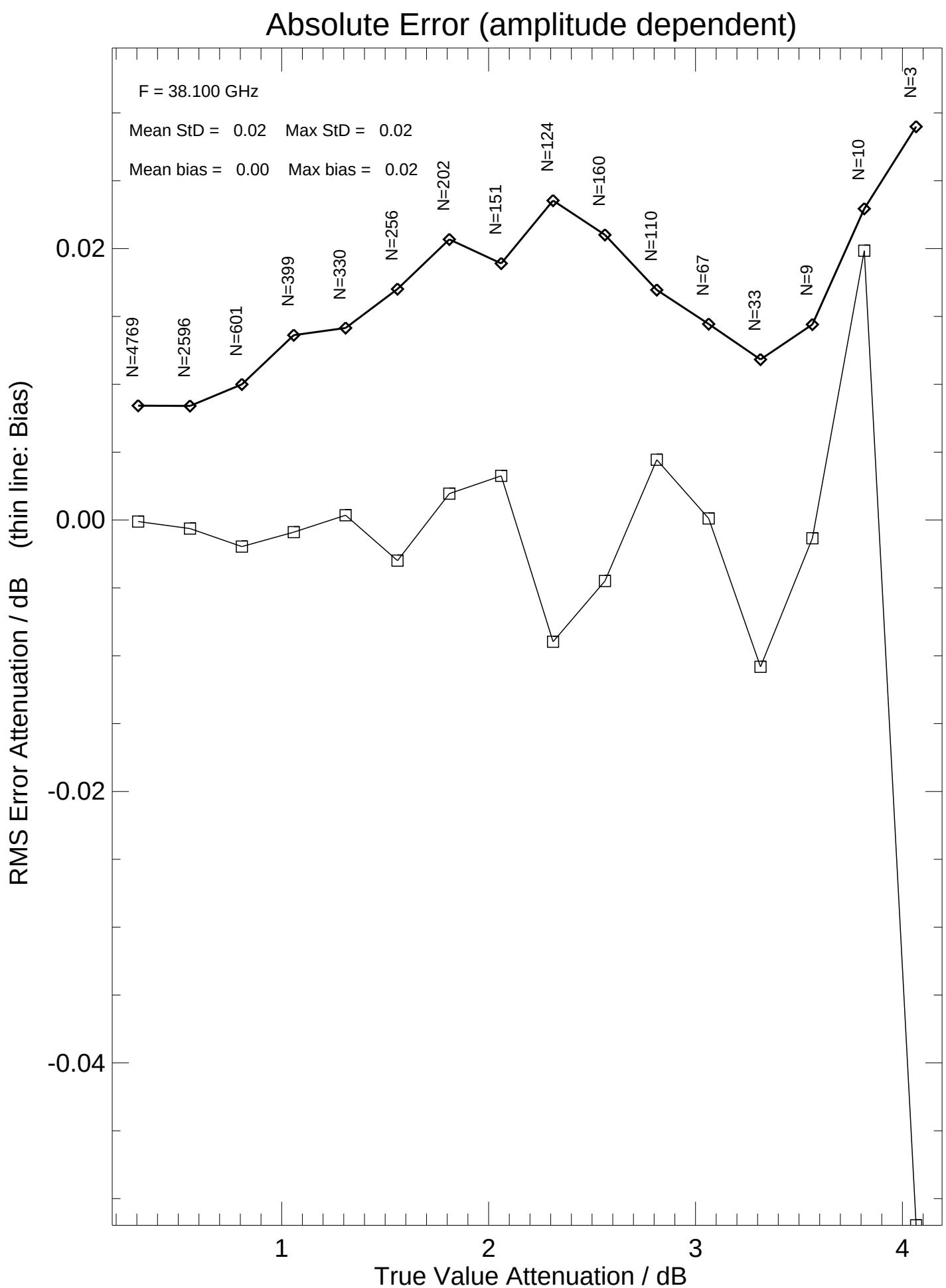

Cor=0.99984 RMS=0.01090 Bias=0.0005
F = 37.900 GHz N2=9820
4
3
2
1
1
2
3
4

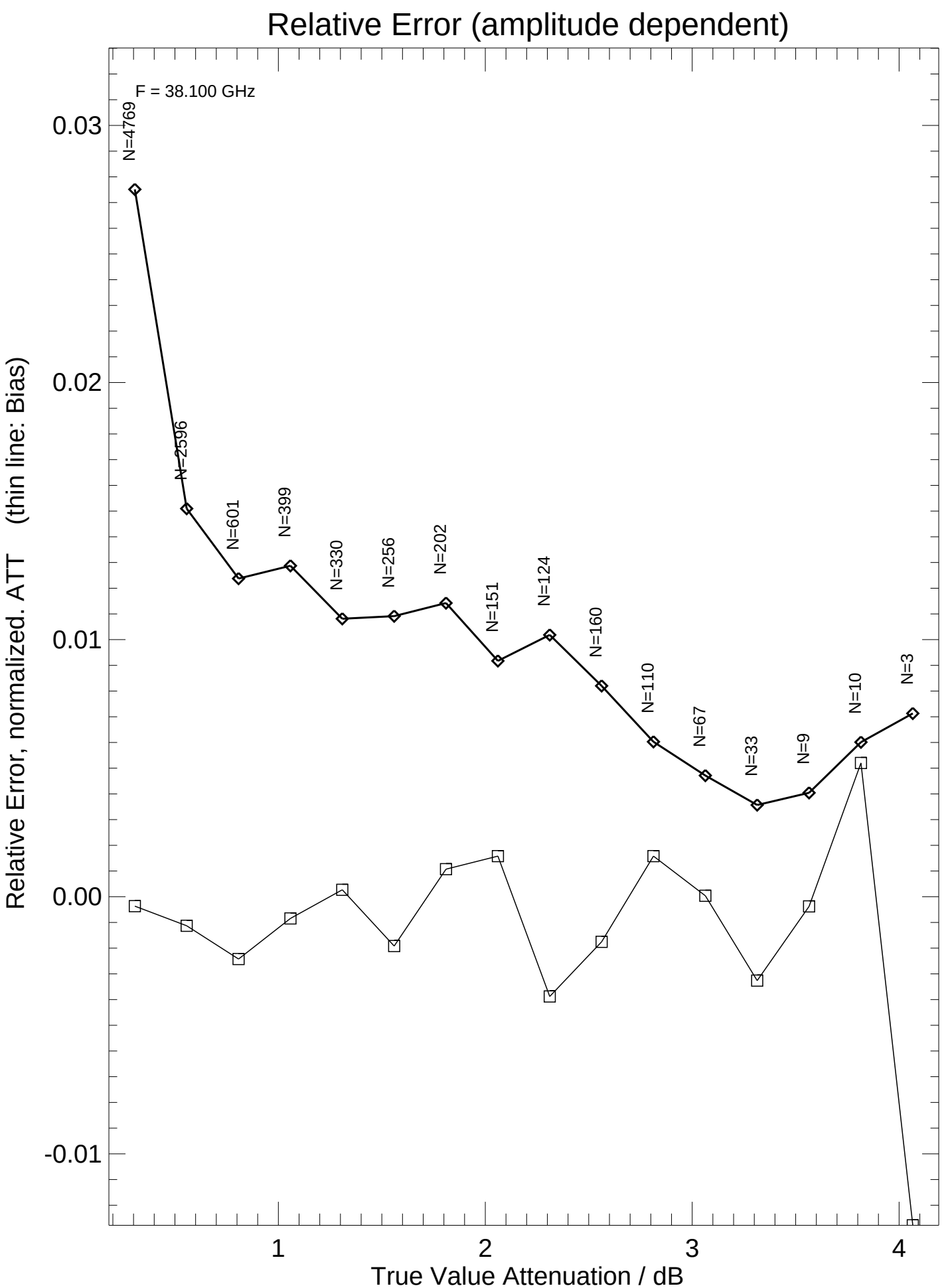

Absolute Error (amplitude dependent)
F = 37.900 GHz
Mean StD = 0.02 Max StD = 0.02
Mean bias = 0.00 Max bias = 0.02
N=4755
N=2608
N=602
N=400
N=331
N=255
N=201
N=152
N=127
N=157
N=110
N=67
N=33
N=9
N=10
N=3
0.02
0.00
-0.02
-0.04
RMS Error Attenuation / dB (thin line: Bias)
1
2
3
4
True Value Attenuation / dB

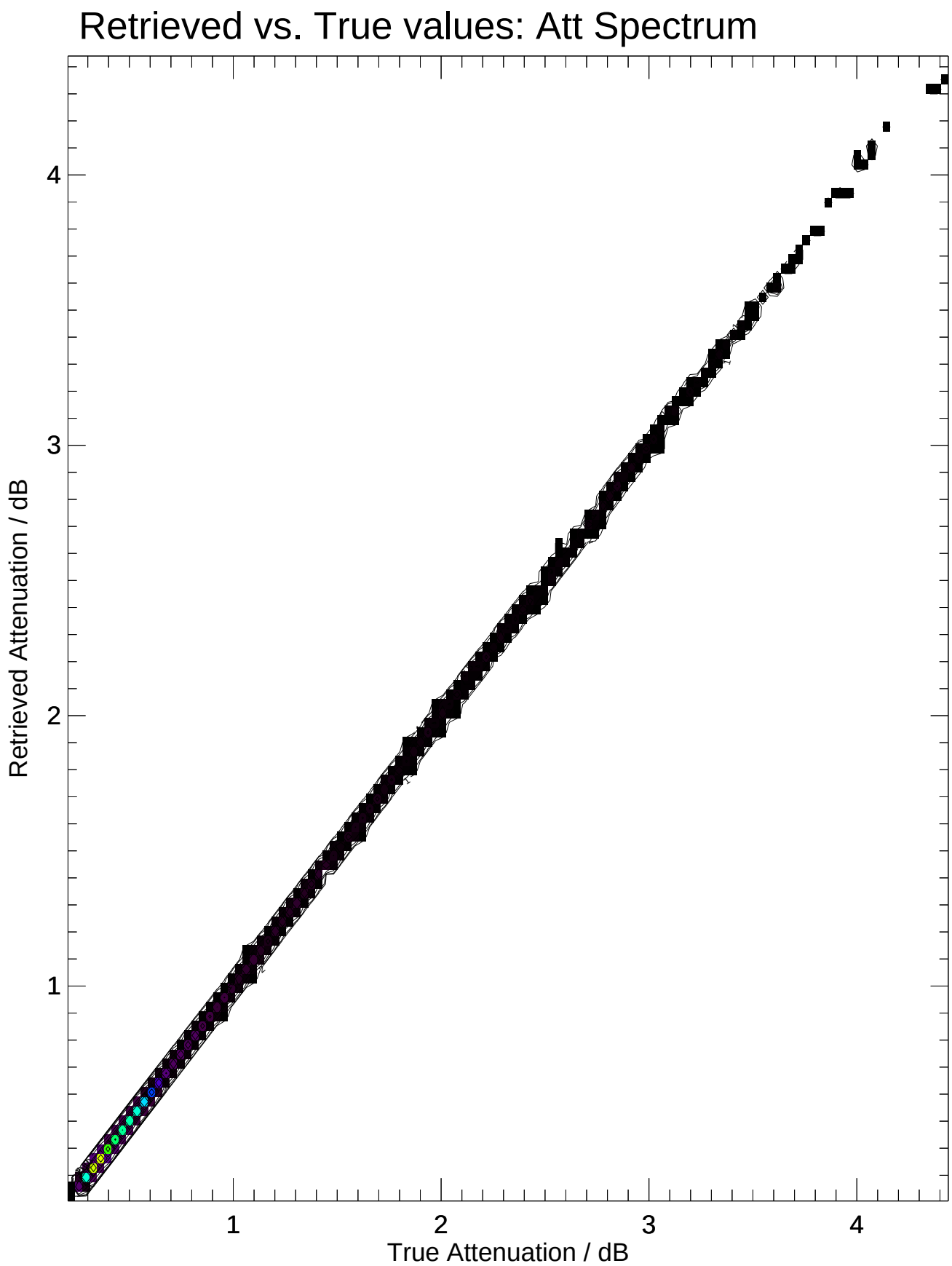

Relative Error (amplitude dependent)
F = 37.900 GHz
N=4755
N=2608
N=602
N=400
N=331
N=255
N=201
N=152
N=127
N=157
N=110
N=67
N=33
N=9
N=10
N=3
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
1
2
3
4
True Value Attenuation / dB

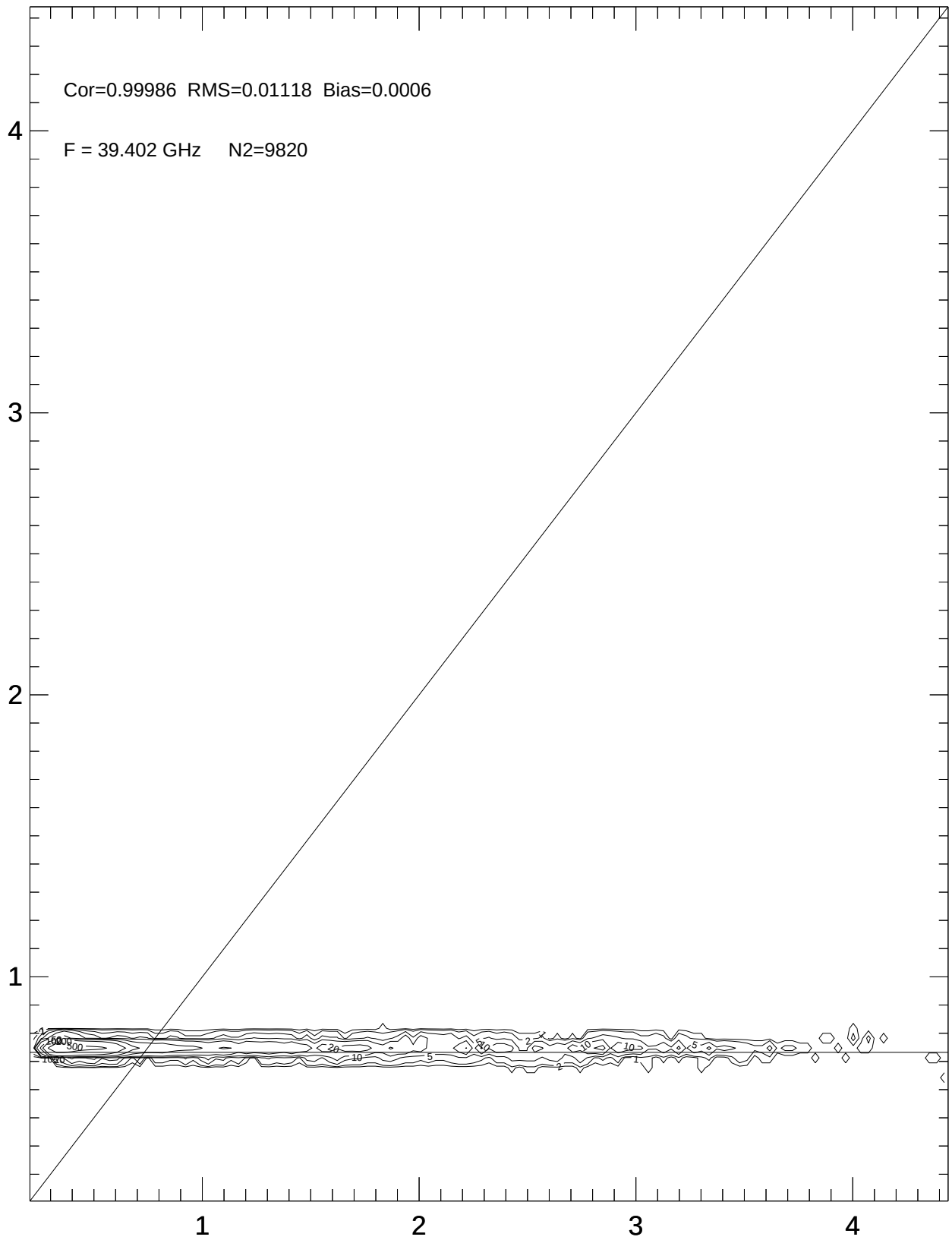

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
1
2
3
4
1
2
3
4

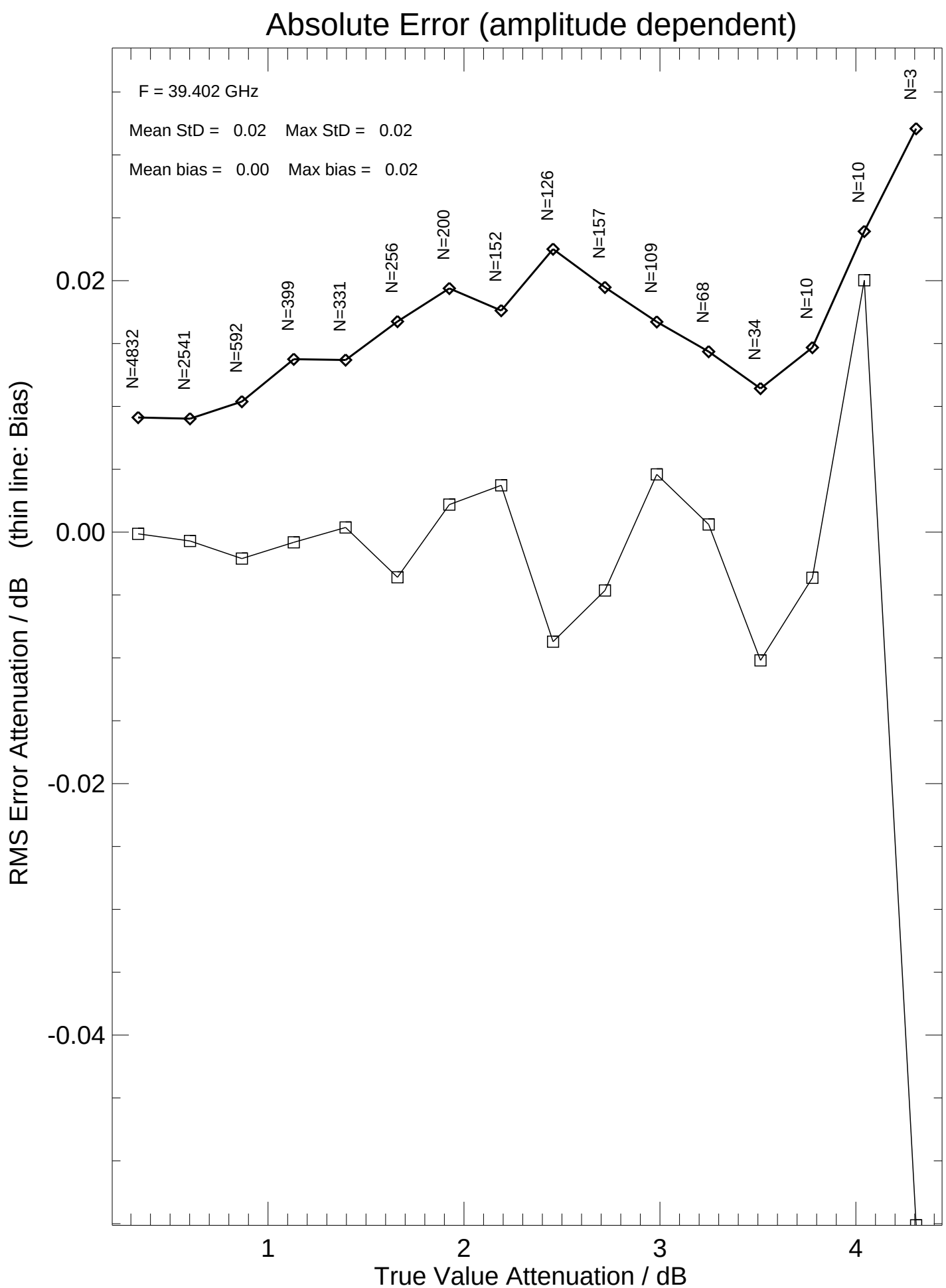

Cor=0.99985 RMS=0.01093 Bias=0.0005
F = 38.100 GHz N2=9820
4
3
2
1
1
2
3
4

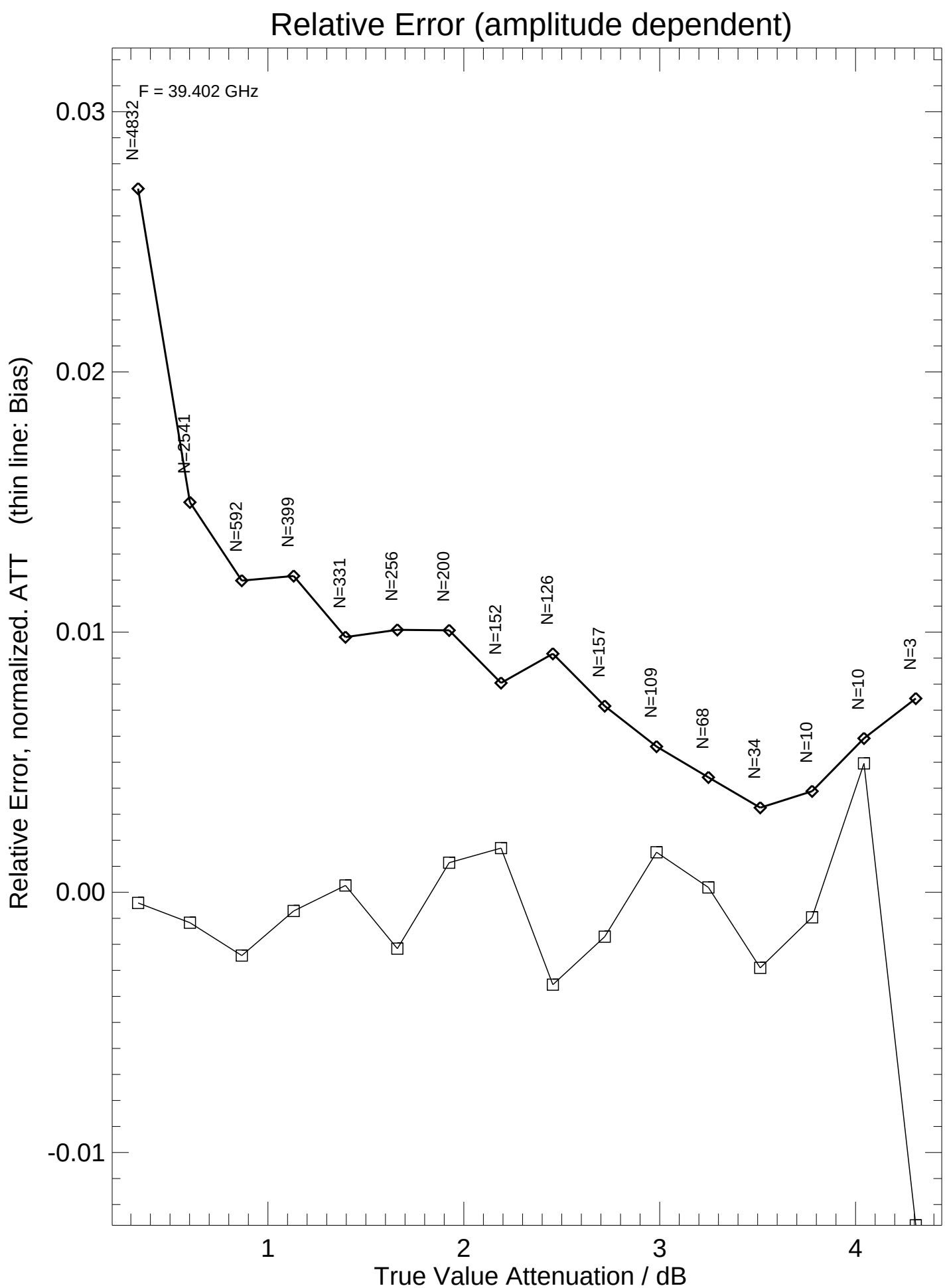

Absolute Error (amplitude dependent)
F = 38.100 GHz
Mean StD = 0.02 Max StD = 0.02
Mean bias = 0.00 Max bias = 0.02
N=4769
N=2596
N=601
N=399
N=330
N=256
N=202
N=151
N=124
N=160
N=110
N=67
N=33
N=9
N=10
N=3
0.02
0.00
-0.02
-0.04
RMS Error Attenuation / dB (thin line: Bias)
1
2
3
4
True Value Attenuation / dB

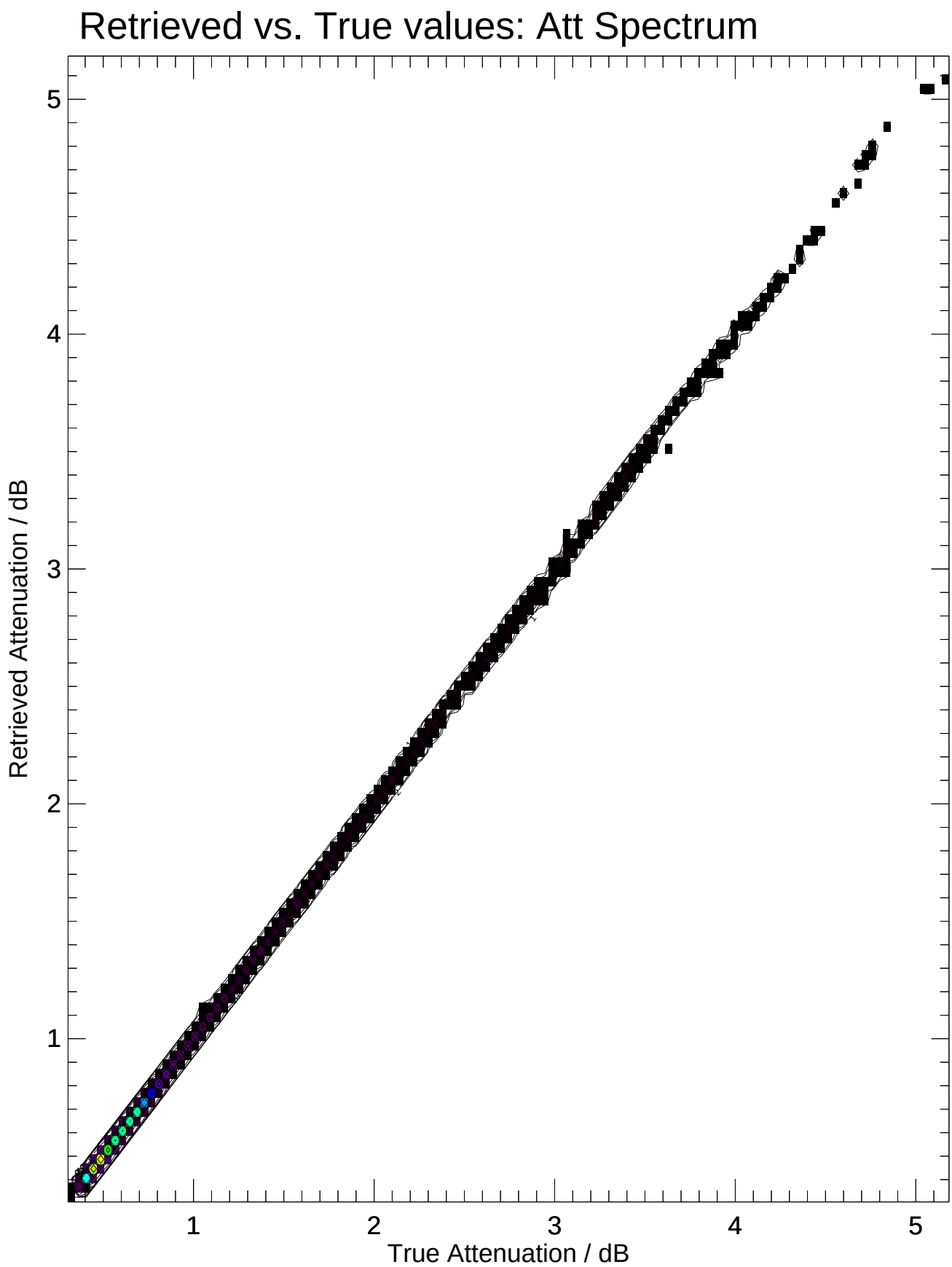

Relative Error (amplitude dependent)
F = 38.100 GHz
N=4769
N=2596
N=601
N=399
N=330
N=256
N=202
N=151
N=124
N=160
N=110
N=67
N=33
N=9
N=10
N=3
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
1
2
3
4
True Value Attenuation / dB

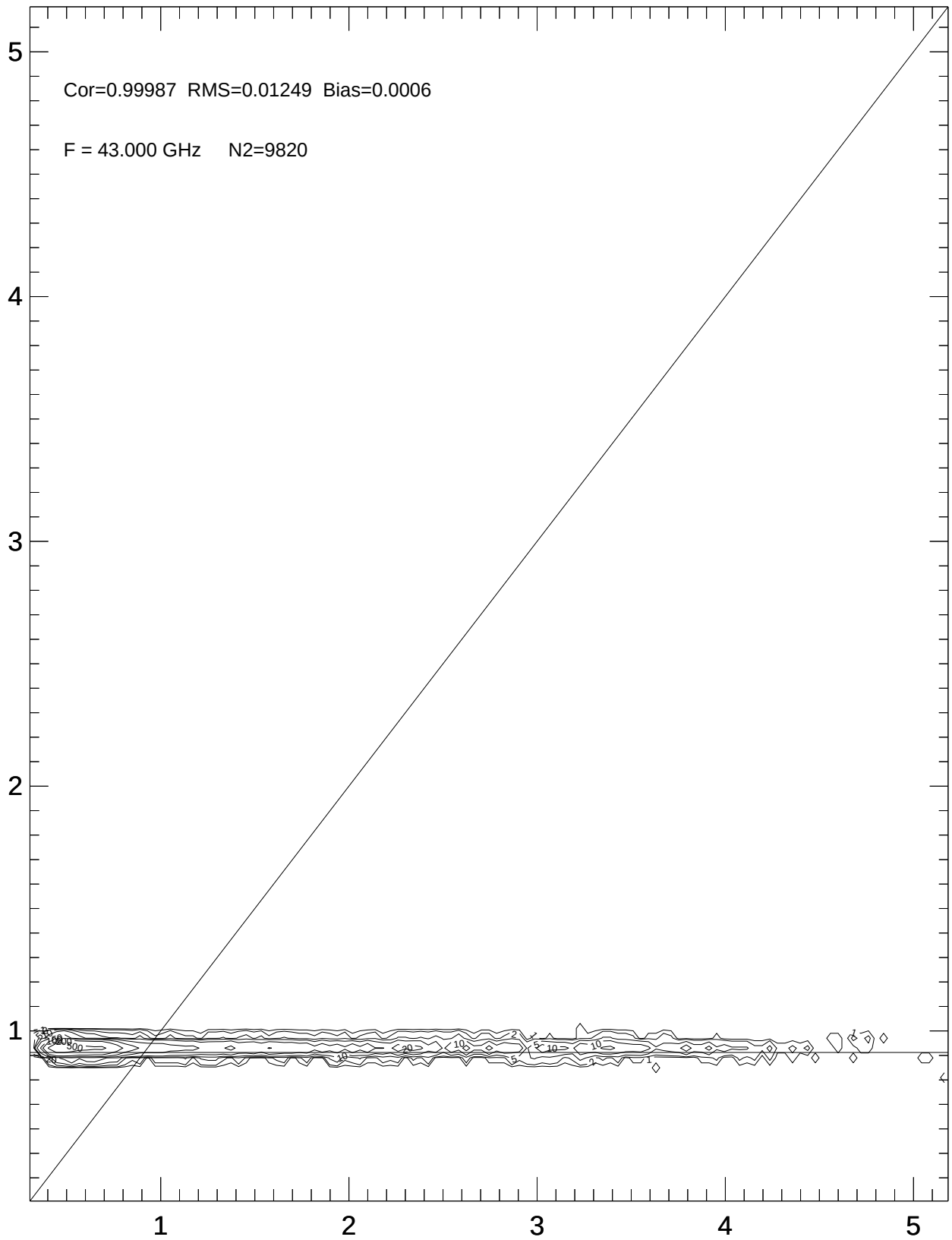

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
1
2
3
4
1
2
3
4

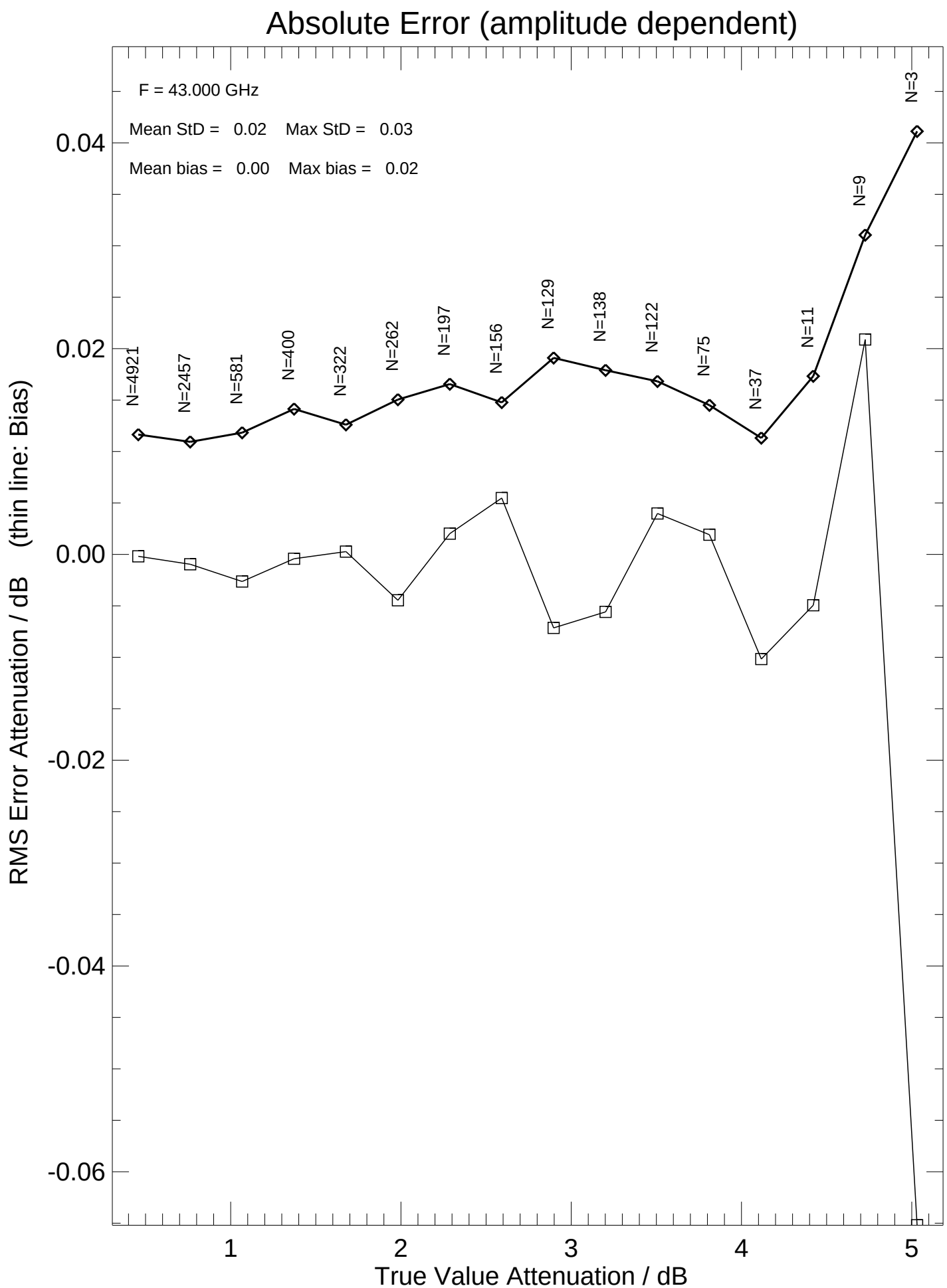

Cor=0.99986 RMS=0.01118 Bias=0.0006
F = 39.402 GHz N2=9820
1
2
3
4
1
2
3
4

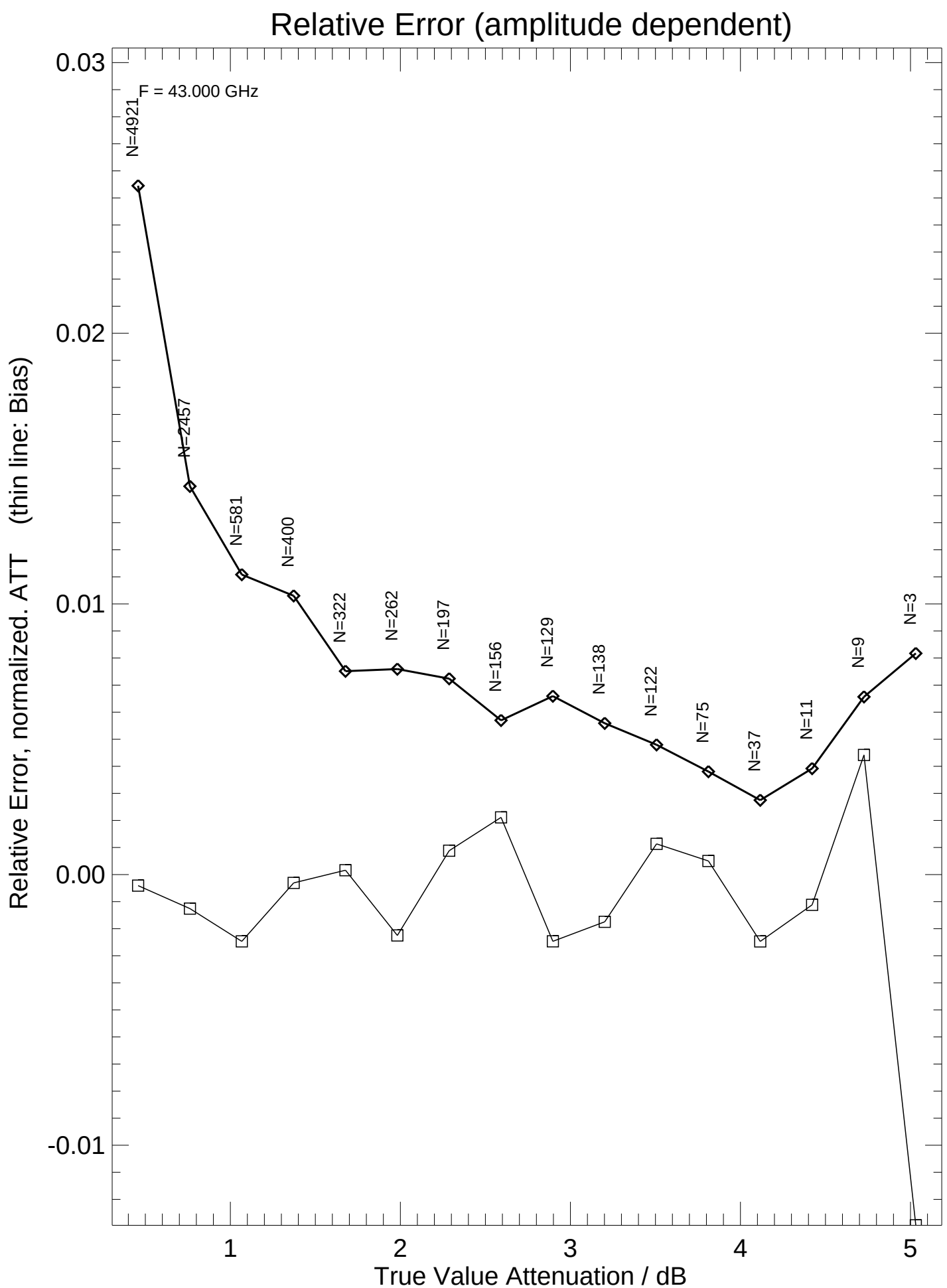

Absolute Error (amplitude dependent)
F = 39.402 GHz
Mean StD = 0.02 Max StD = 0.02
Mean bias = 0.00 Max bias = 0.02
N=4832
N=2541
N=592
N=399
N=331
N=256
N=200
N=152
N=126
N=157
N=109
N=68
N=34
N=10
N=10
N=3
0.02
0.00
-0.02
-0.04
RMS Error Attenuation / dB (thin line: Bias)
1
2
3
4
True Value Attenuation / dB

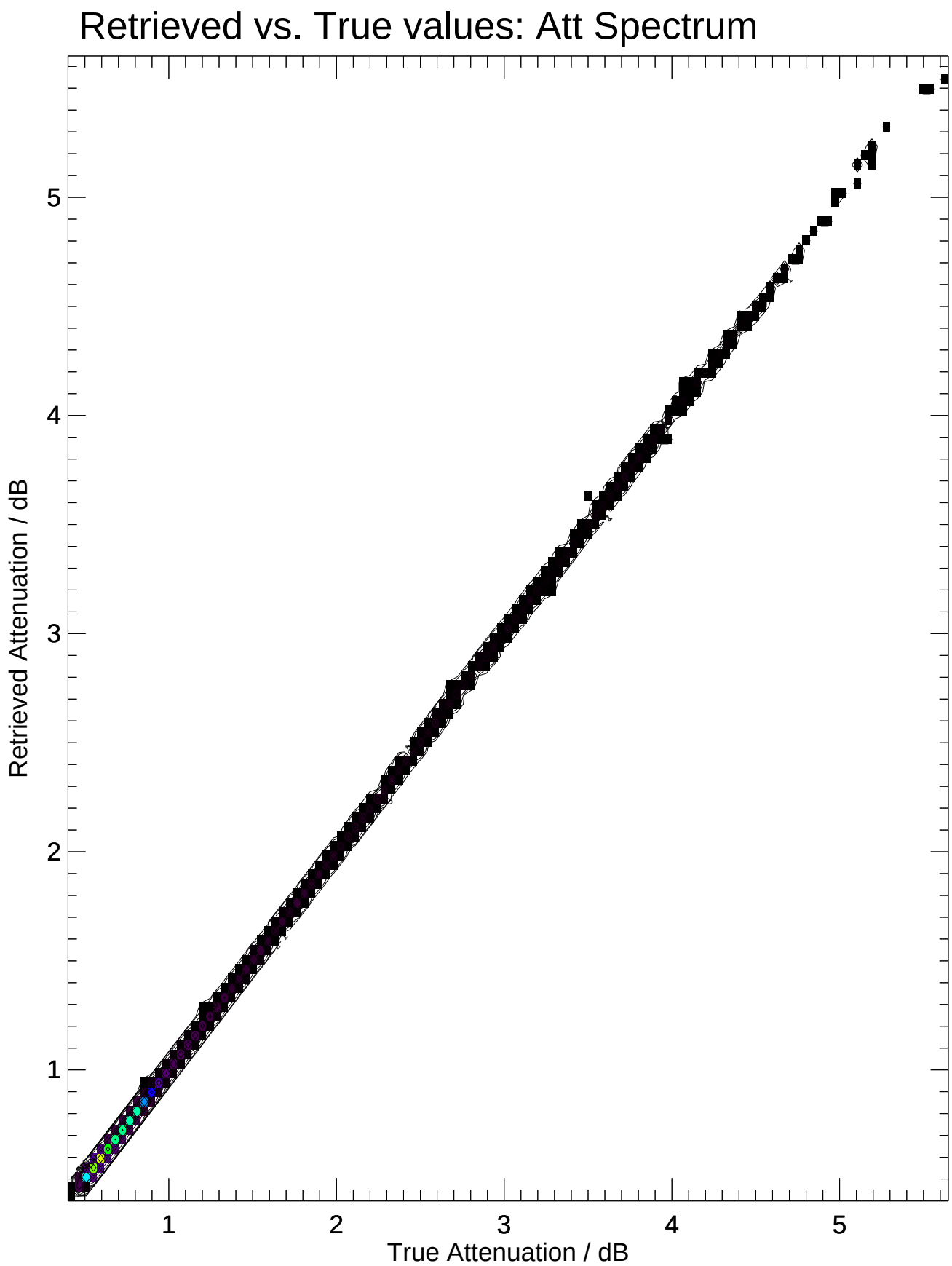

Relative Error (amplitude dependent)
F = 39.402 GHz
N=4832
N=2541
N=592
N=399
N=331
N=256
N=200
N=152
N=126
N=157
N=109
N=68
N=34
N=10
N=10
N=3
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
1
2
3
4
True Value Attenuation / dB

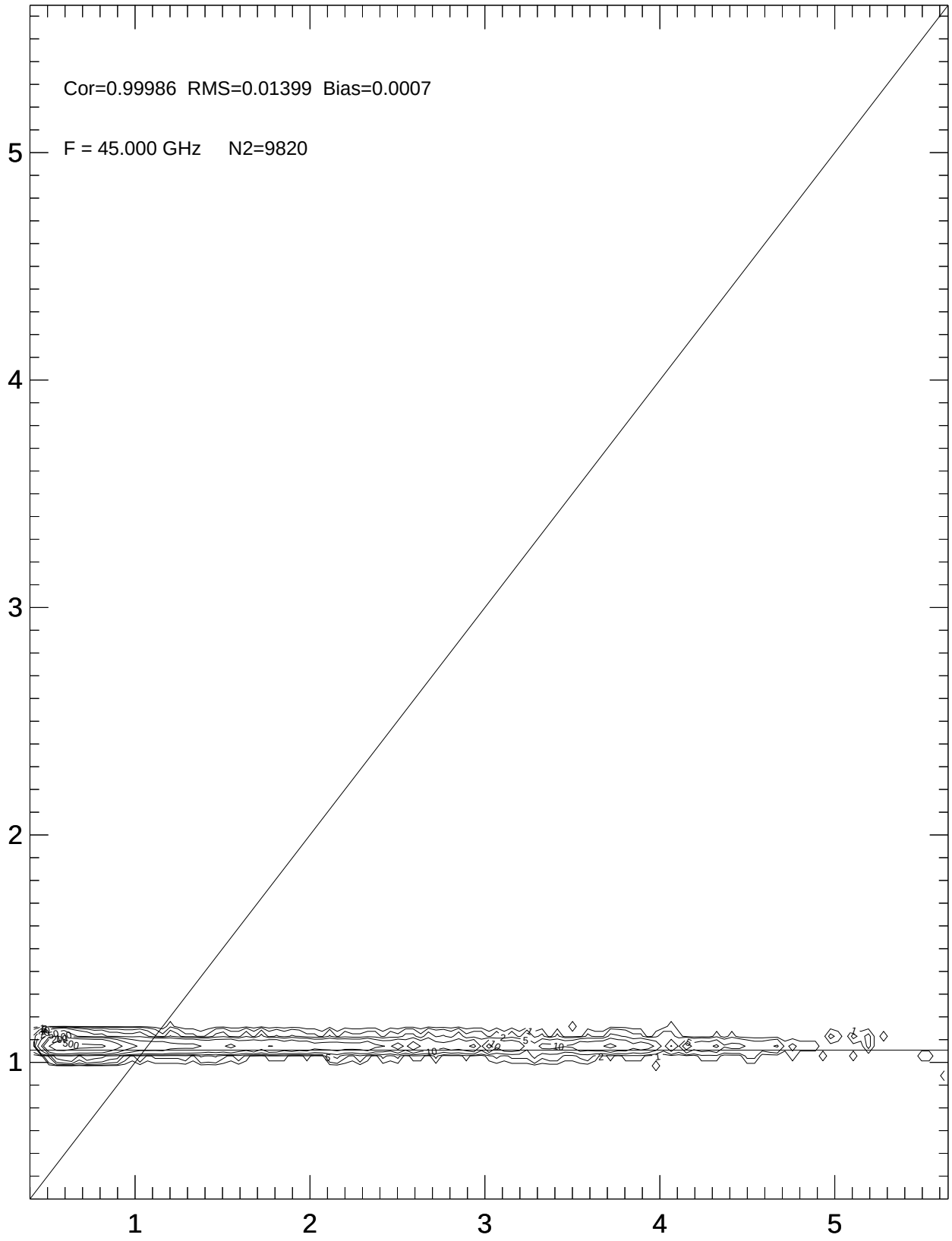

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
1
2
3
4
5

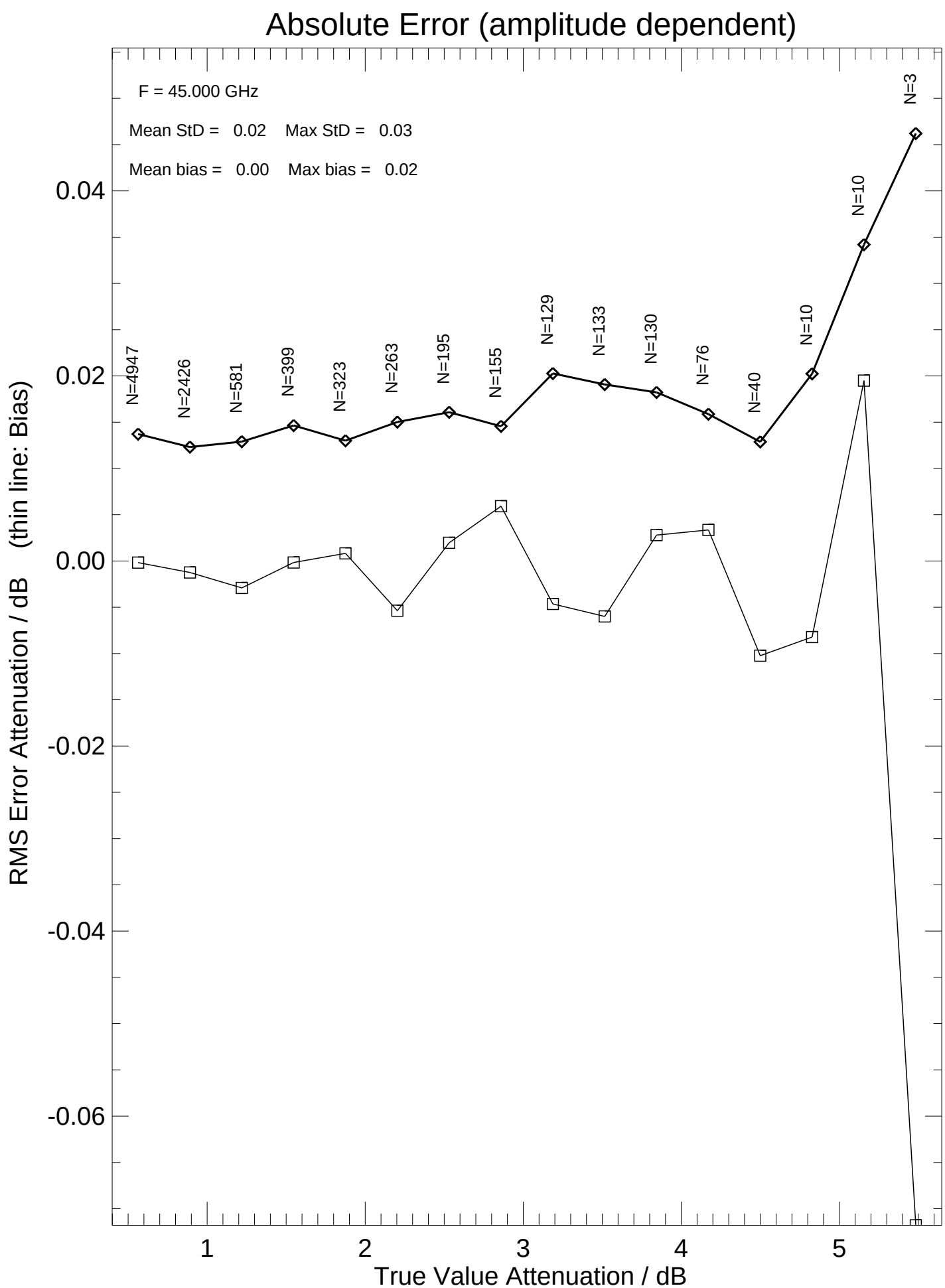

Cor=0.99987 RMS=0.01249 Bias=0.0006
F = 43.000 GHz N2=9820
5
4
3
2
1
1
2
3
4
5

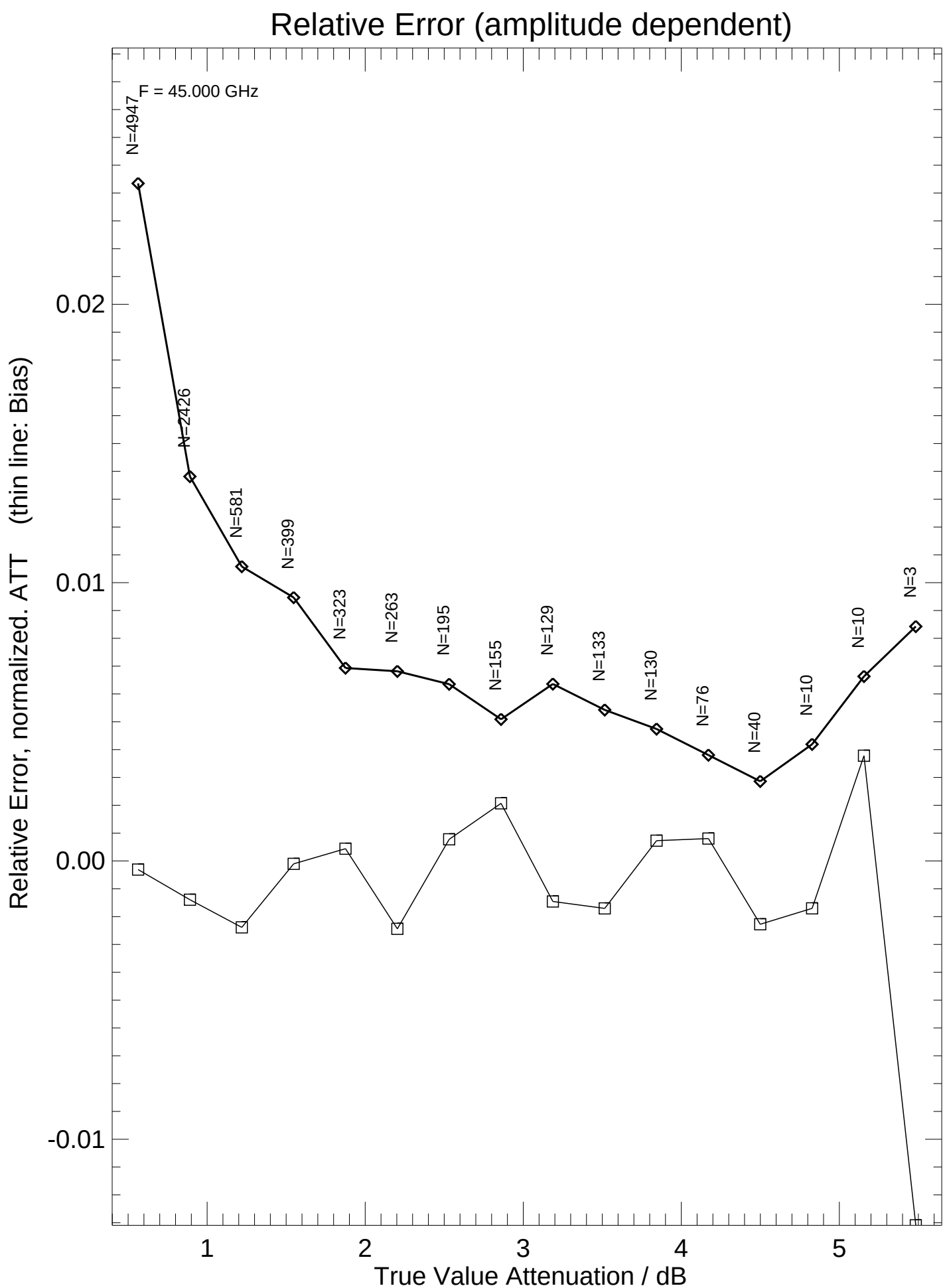

Absolute Error (amplitude dependent)
F = 43.000 GHz
Mean StD = 0.02 Max StD = 0.03
Mean bias = 0.00 Max bias = 0.02
N=4921
N=2457
N=581
N=400
N=322
N=262
N=197
N=156
N=129
N=138
N=122
N=75
N=37
N=11
N=9
N=3
0.04
0.02
0.00
-0.02
-0.04
-0.06
RMS Error Attenuation / dB (thin line: Bias)
1
2
3
4
5
True Value Attenuation / dB

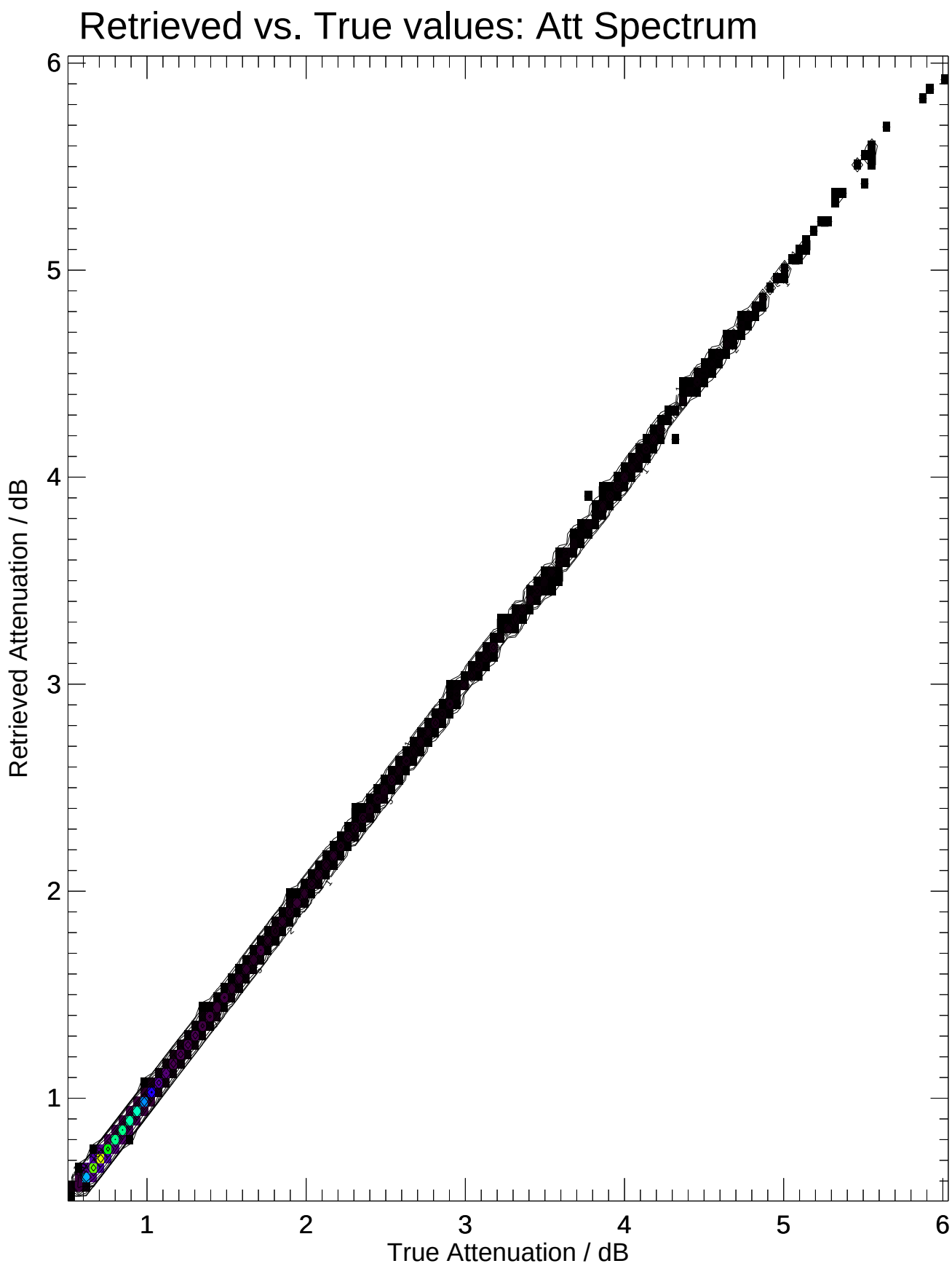

Relative Error (amplitude dependent)
F = 43.000 GHz
N=4921
N=2457
N=581
N=400
N=322
N=262
N=197
N=156
N=129
N=138
N=122
N=75
N=37
N=11
N=9
N=3
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
1
2
3
4
5
True Value Attenuation / dB

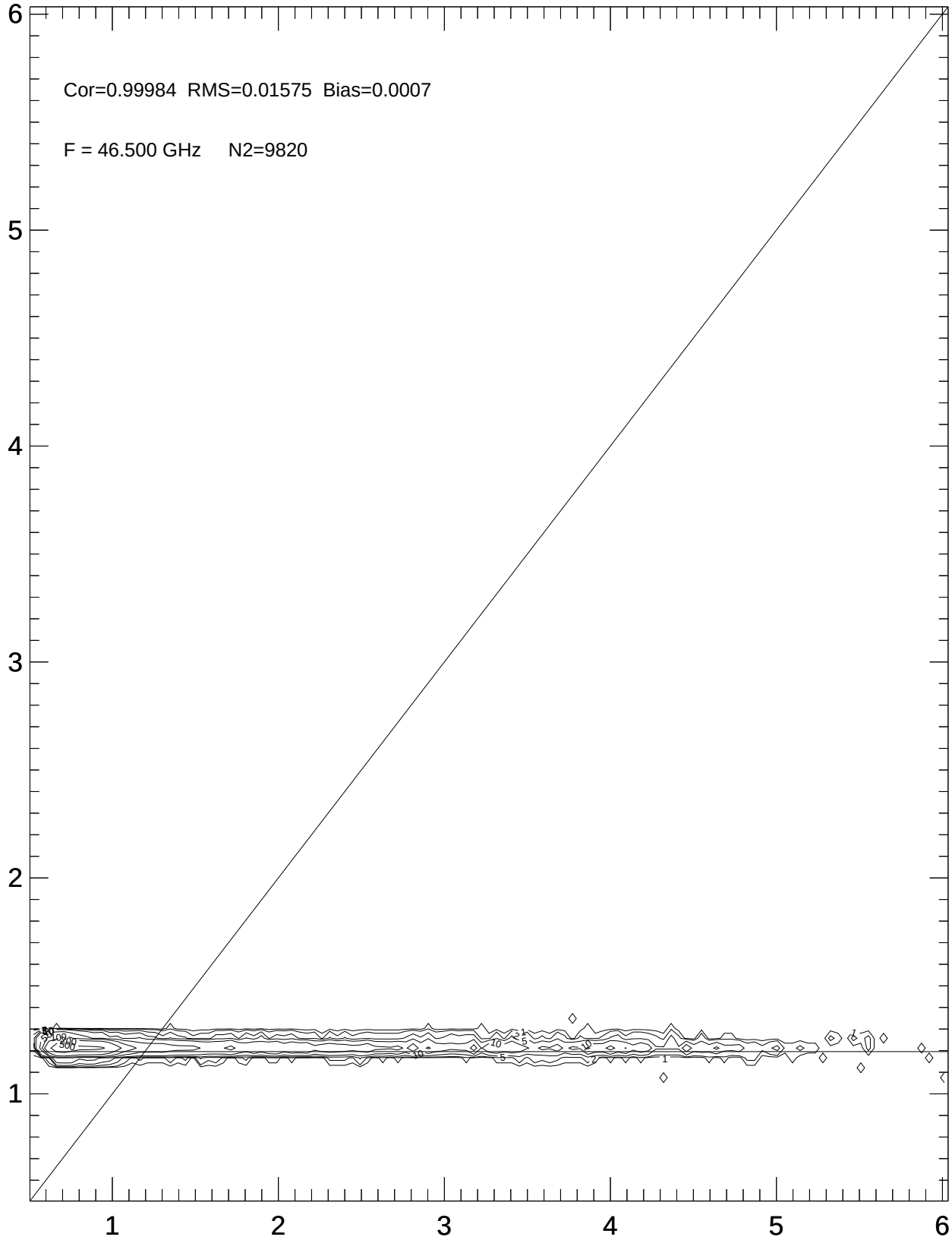

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
1
2
3
4
5

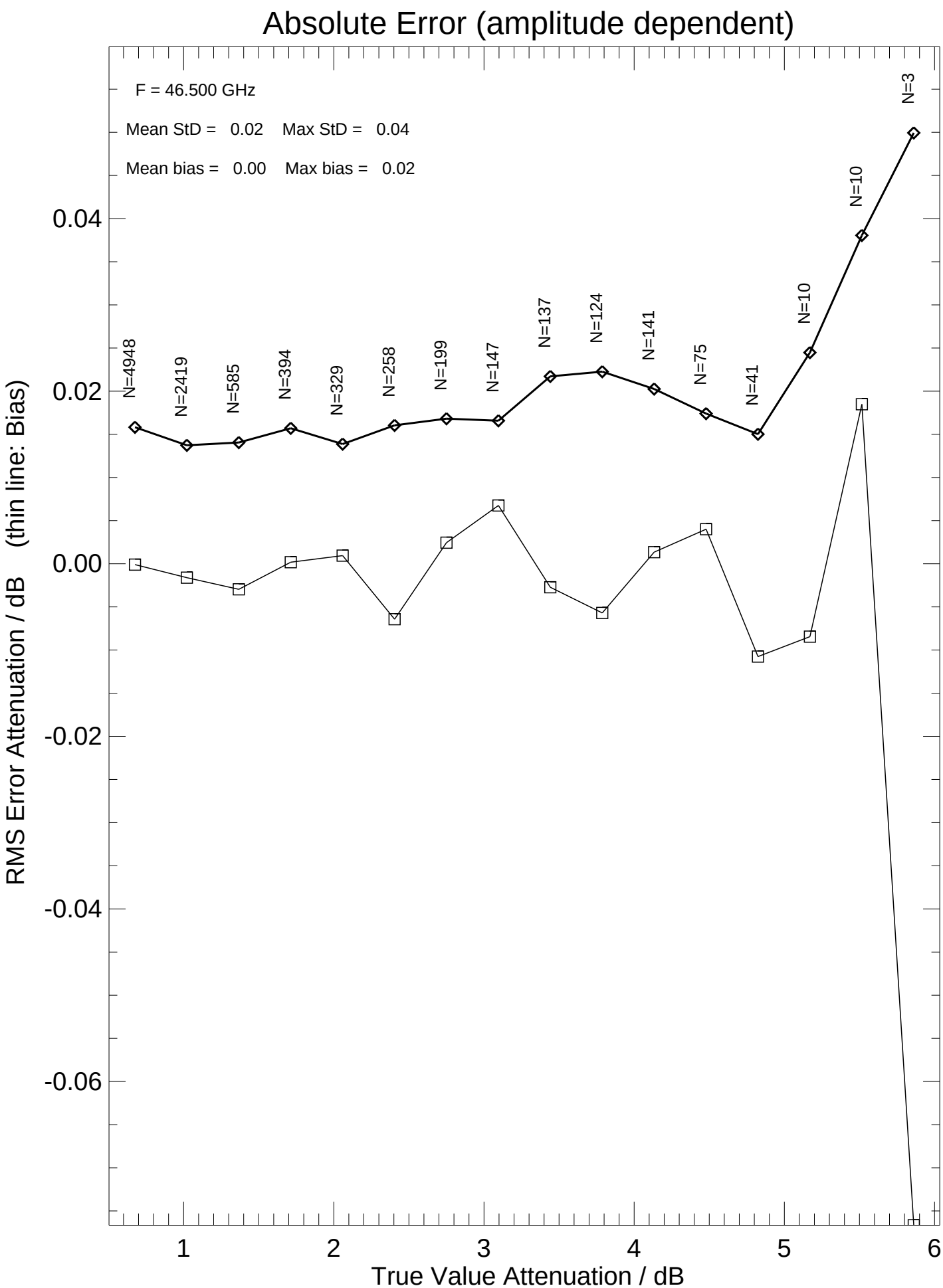

Cor=0.99986 RMS=0.01399 Bias=0.0007
F = 45.000 GHz N2=9820
1
2
3
4
5
1
2
3
4
5

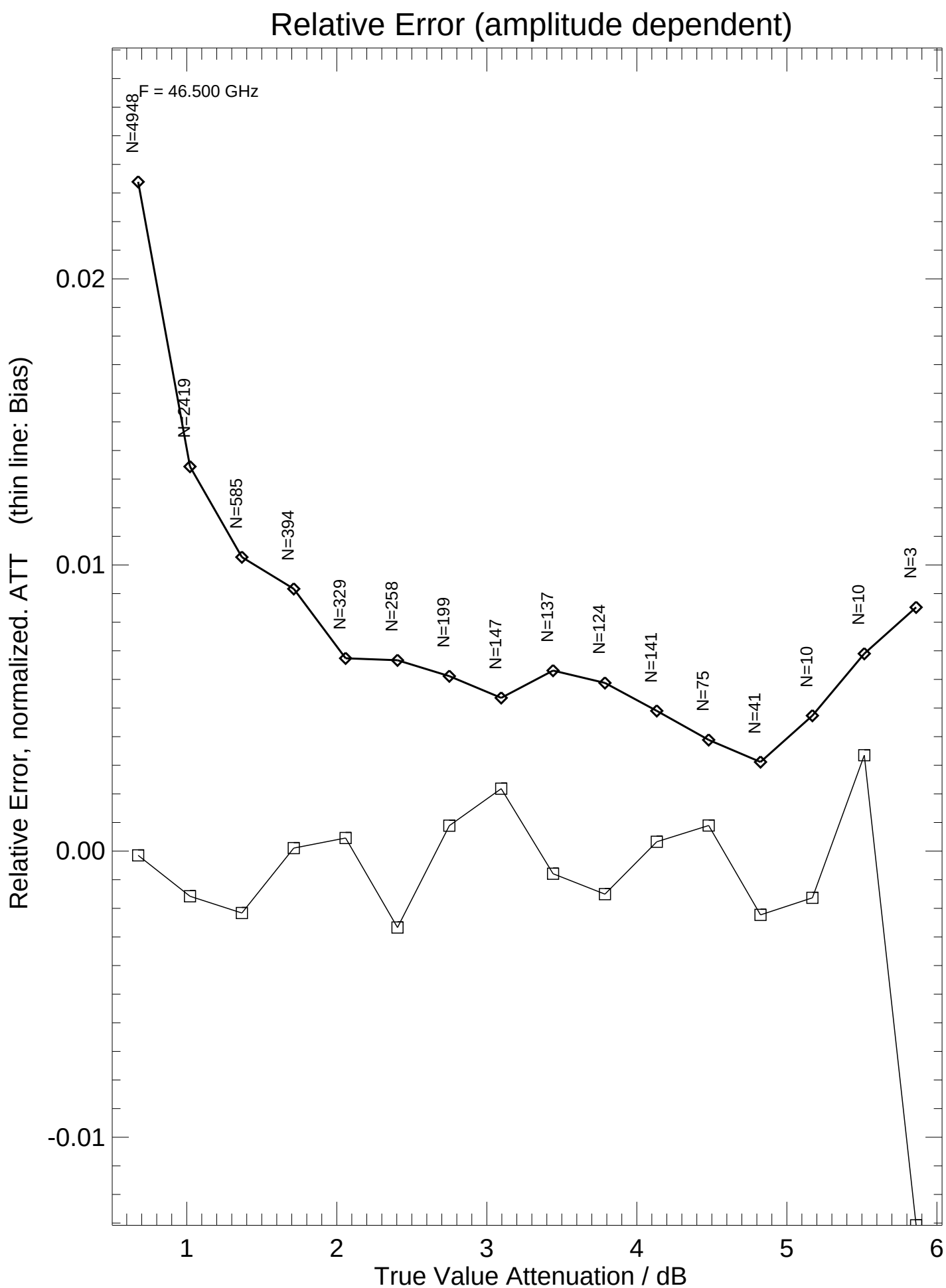

Absolute Error (amplitude dependent)
F = 45.000 GHz
Mean StD = 0.02 Max StD = 0.03
Mean bias = 0.00 Max bias = 0.02
N=4947
N=2426
N=581
N=399
N=323
N=263
N=195
N=155
N=129
N=133
N=130
N=76
N=40
N=10
N=10
N=3
0.04
0.02
0.00
-0.02
-0.04
-0.06
RMS Error Attenuation / dB (thin line: Bias)
1
2
3
4
5
True Value Attenuation / dB

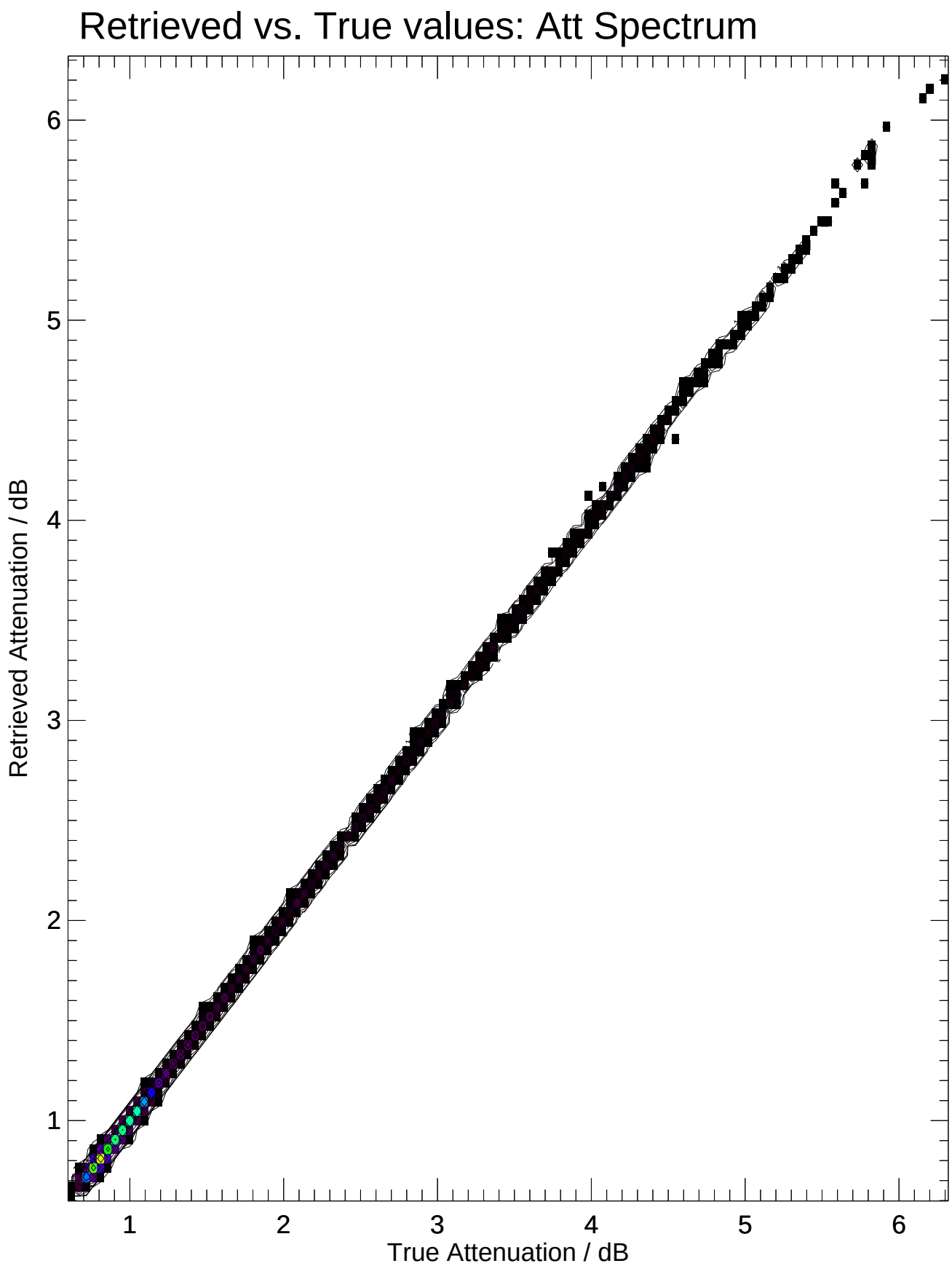

Relative Error (amplitude dependent)
F = 45.000 GHz
N=4947
N=2426
N=581
N=399
N=323
N=263
N=195
N=155
N=129
N=133
N=130
N=76
N=40
N=10
N=10
N=3
0.02
0.01
0.00
-0.01
1
2
3
4
5
Relative Error, normalized. ATT (thin line: Bias)
True Value Attenuation / dB

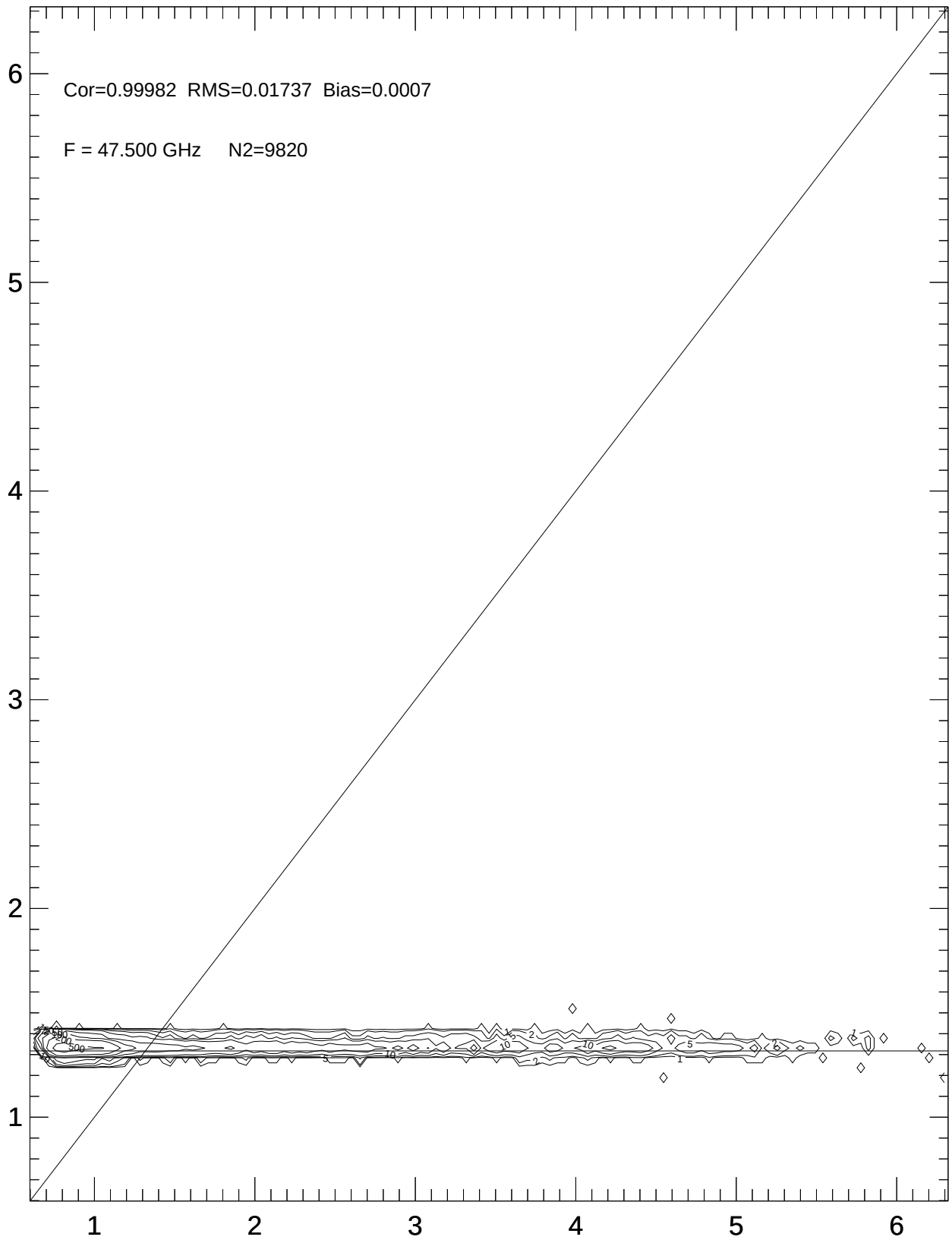

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
1
2
3
4
5
6

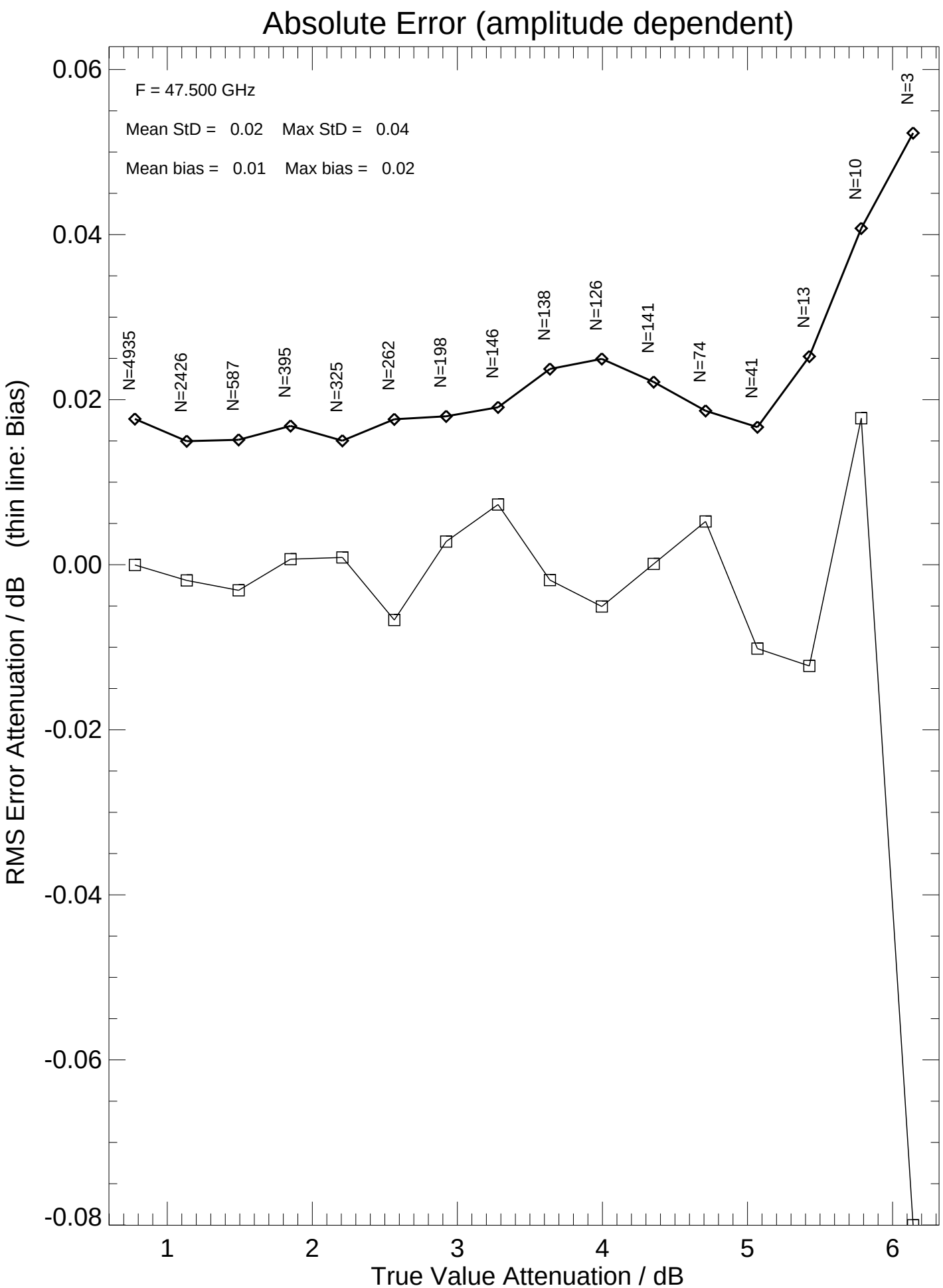

Cor=0.99984 RMS=0.01575 Bias=0.0007
F = 46.500 GHz N2=9820
6
5
4
3
2
1
1
2
3
4
5
6

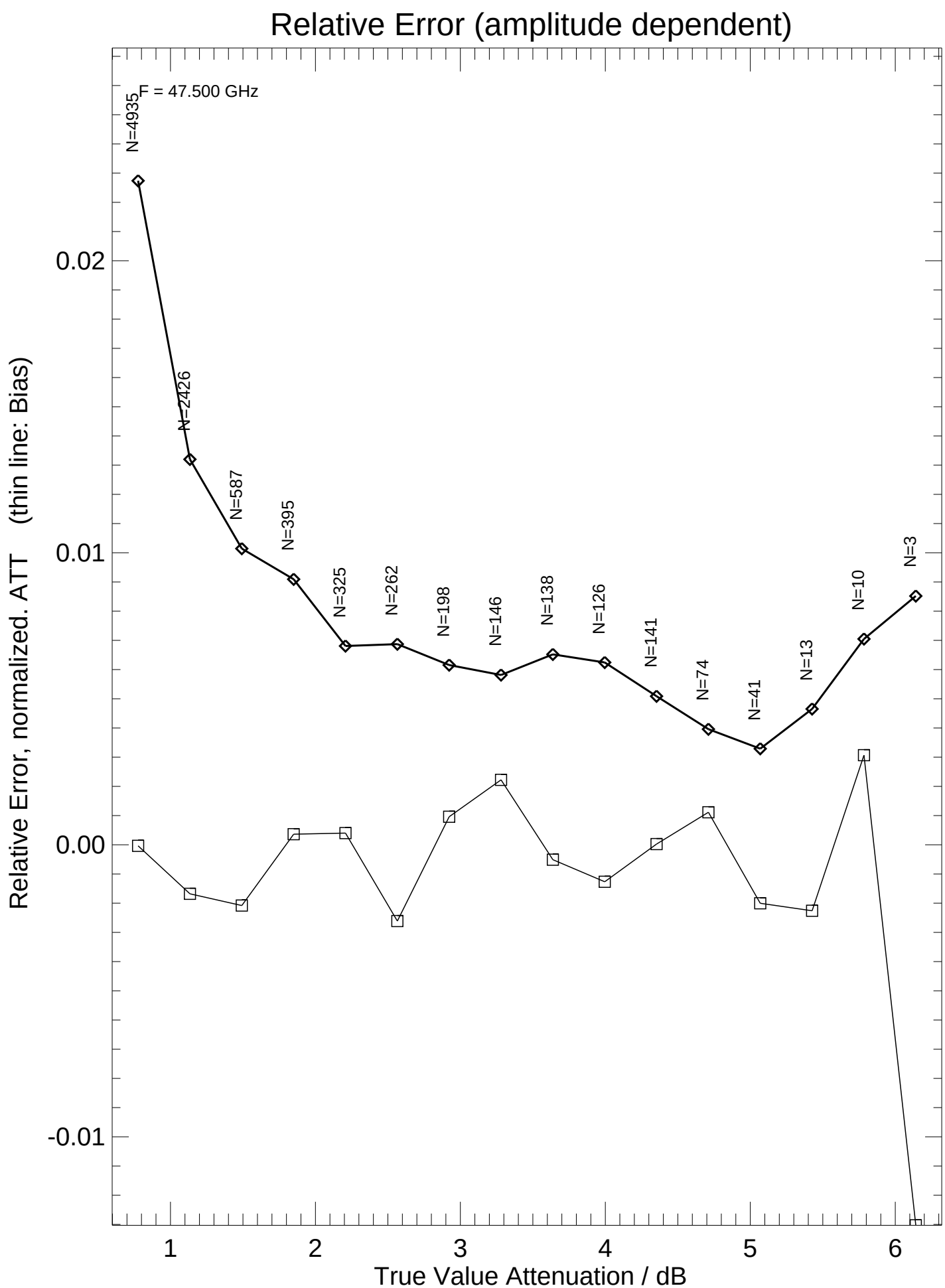

Absolute Error (amplitude dependent)
F = 46.500 GHz
Mean StD = 0.02 Max StD = 0.04
Mean bias = 0.00 Max bias = 0.02
N=4948
N=2419
N=585
N=394
N=329
N=258
N=199
N=147
N=137
N=124
N=141
N=75
N=41
N=10
N=10
N=3
0.04
0.02
0.00
-0.02
-0.04
-0.06
RMS Error Attenuation / dB (thin line: Bias)
1
2
3
4
5
6
True Value Attenuation / dB

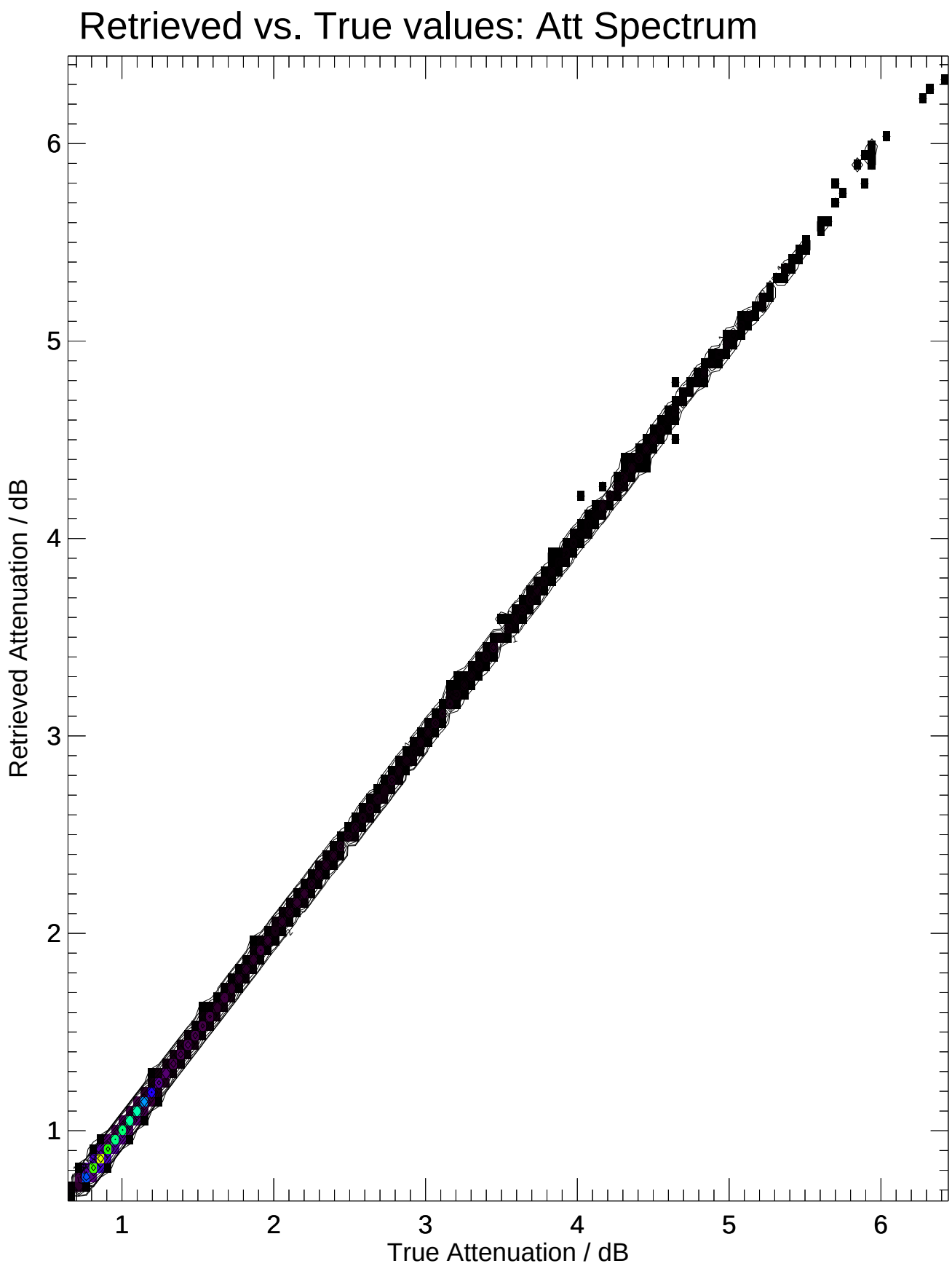

Relative Error (amplitude dependent)
F = 46.500 GHz
N=4948
N=2419
N=585
N=394
N=329
N=258
N=199
N=147
N=137
N=124
N=141
N=75
N=41
N=10
N=10
N=3
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
1
2
3
4
5
6
True Value Attenuation / dB

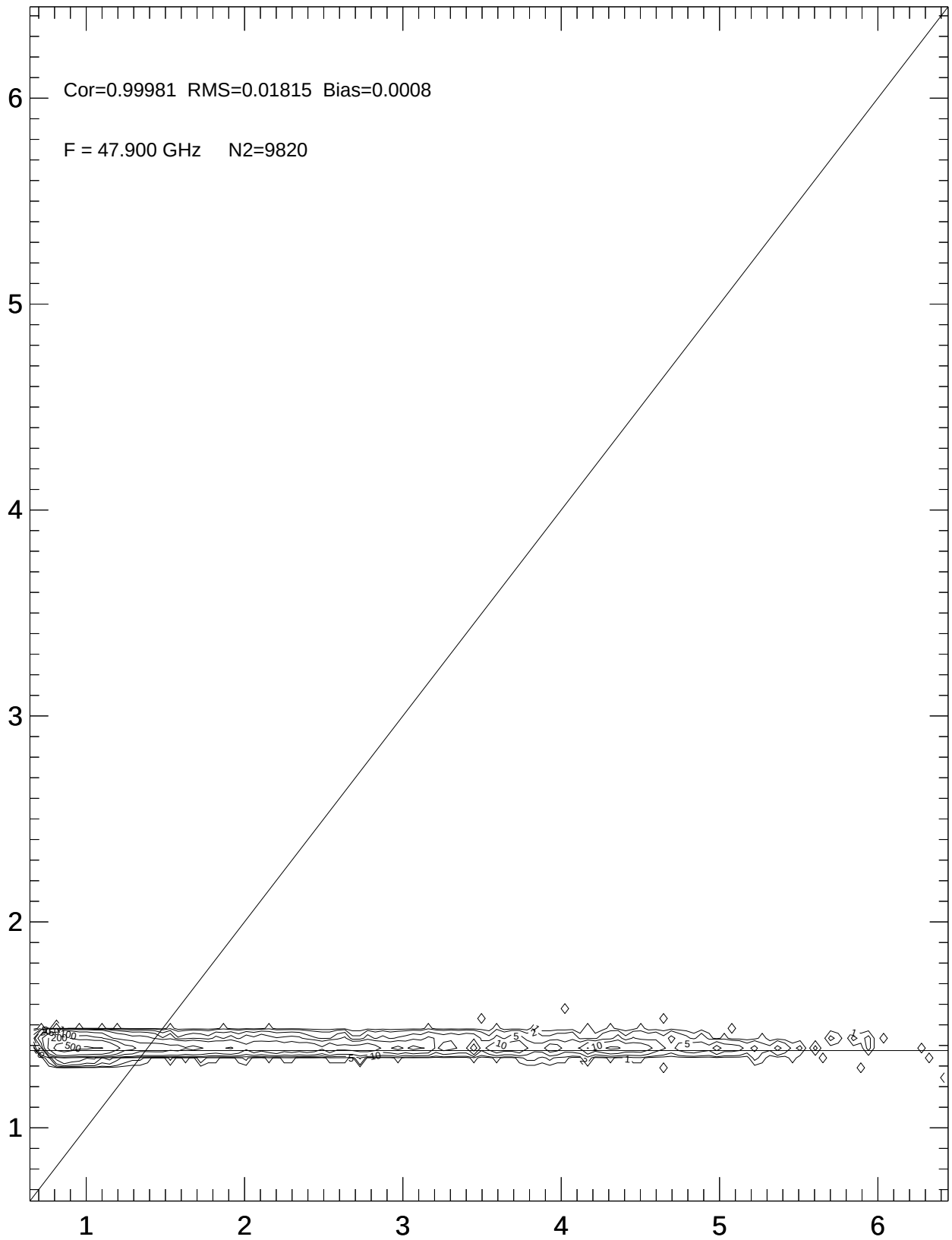

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
1
2
3
4
5
6

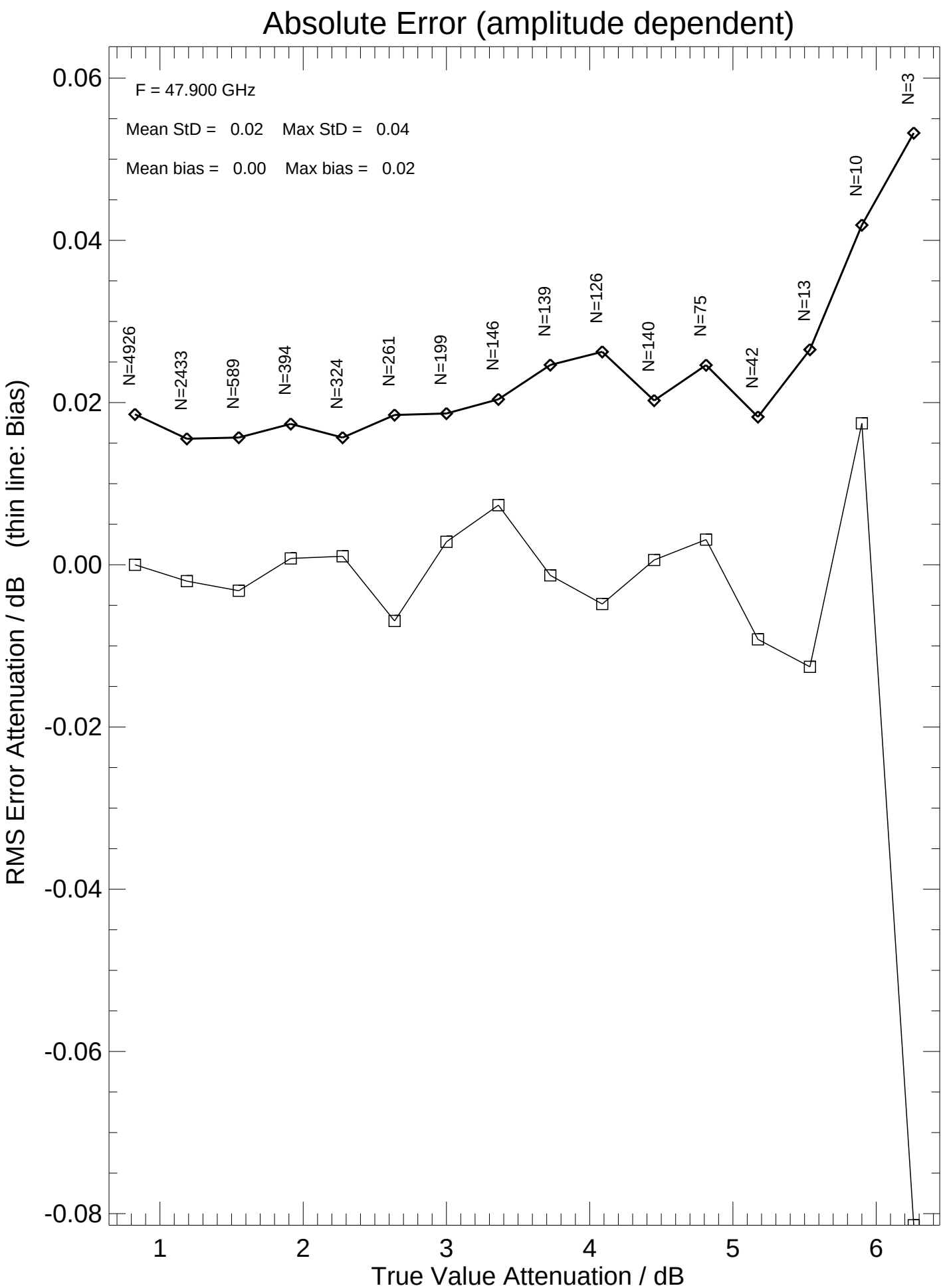

Cor=0.99982 RMS=0.01737 Bias=0.0007
F = 47.500 GHz N2=9820
1
2
3
4
5
6

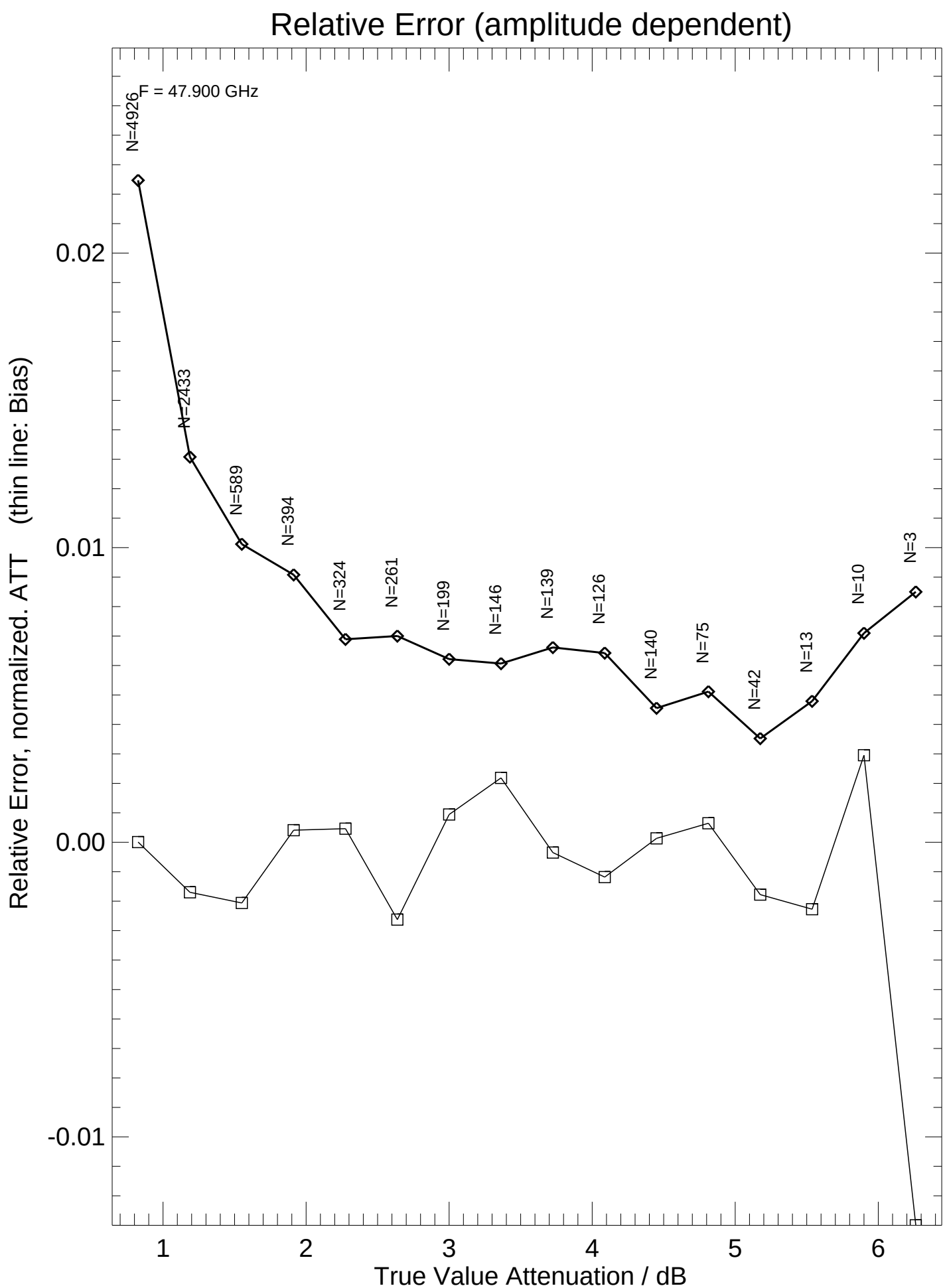

Absolute Error (amplitude dependent)
F = 47.500 GHz
Mean StD = 0.02 Max StD = 0.04
Mean bias = 0.01 Max bias = 0.02
N=4935
N=2426
N=587
N=395
N=325
N=262
N=198
N=146
N=138
N=126
N=141
N=74
N=41
N=13
N=10
N=3
0.06
0.04
0.02
0.00
-0.02
-0.04
-0.06
-0.08
1
2
3
4
5
6
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

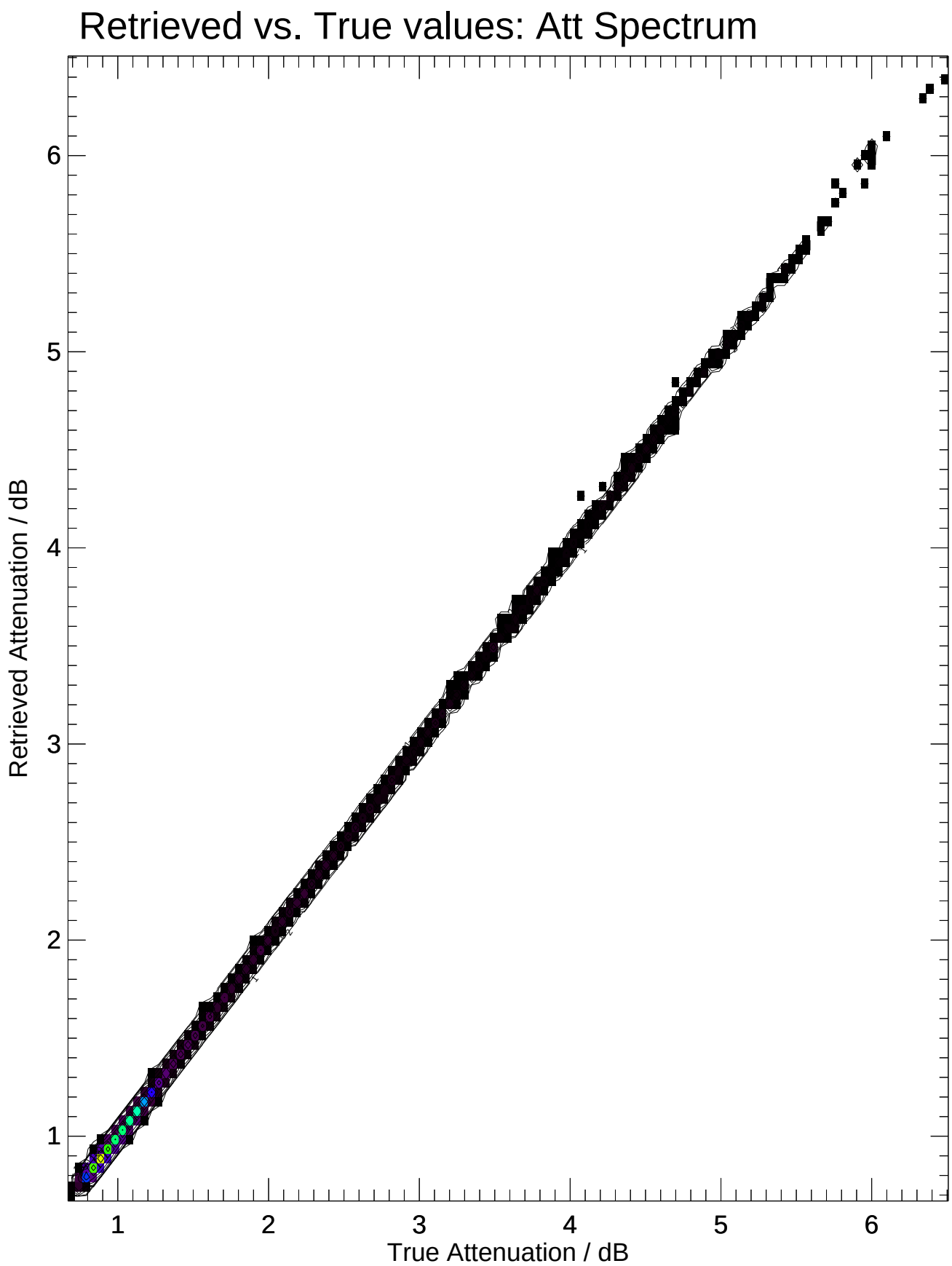

Relative Error (amplitude dependent)
F = 47.500 GHz
N=4935
N=2426
N=587
N=395
N=325
N=262
N=198
N=146
N=138
N=126
N=141
N=74
N=41
N=13
N=10
N=3
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
1
2
3
4
5
6
True Value Attenuation / dB

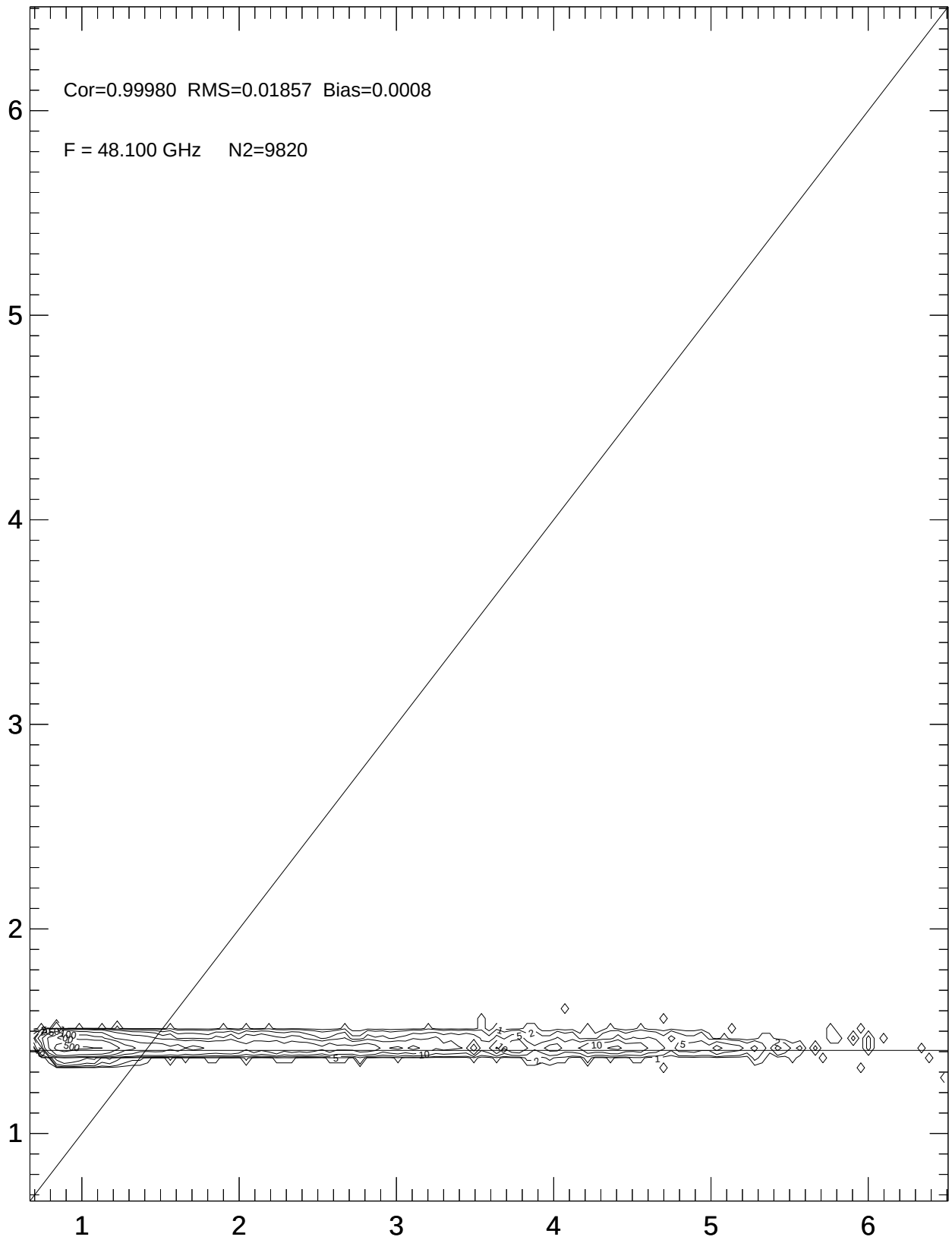

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
1
2
3
4
5
6

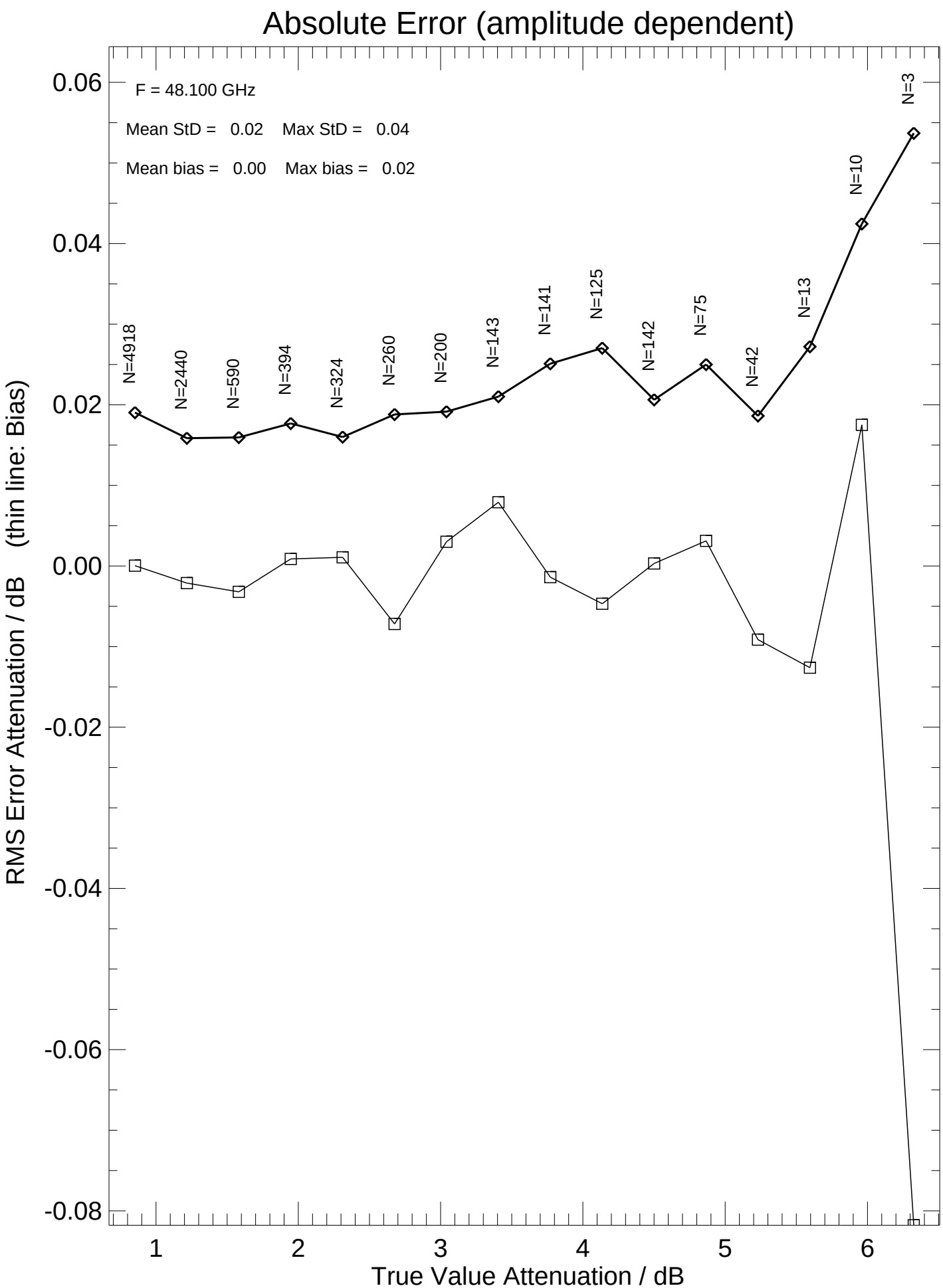

Cor=0.99981 RMS=0.01815 Bias=0.0008
F = 47.900 GHz N2=9820
1
2
3
4
5
6

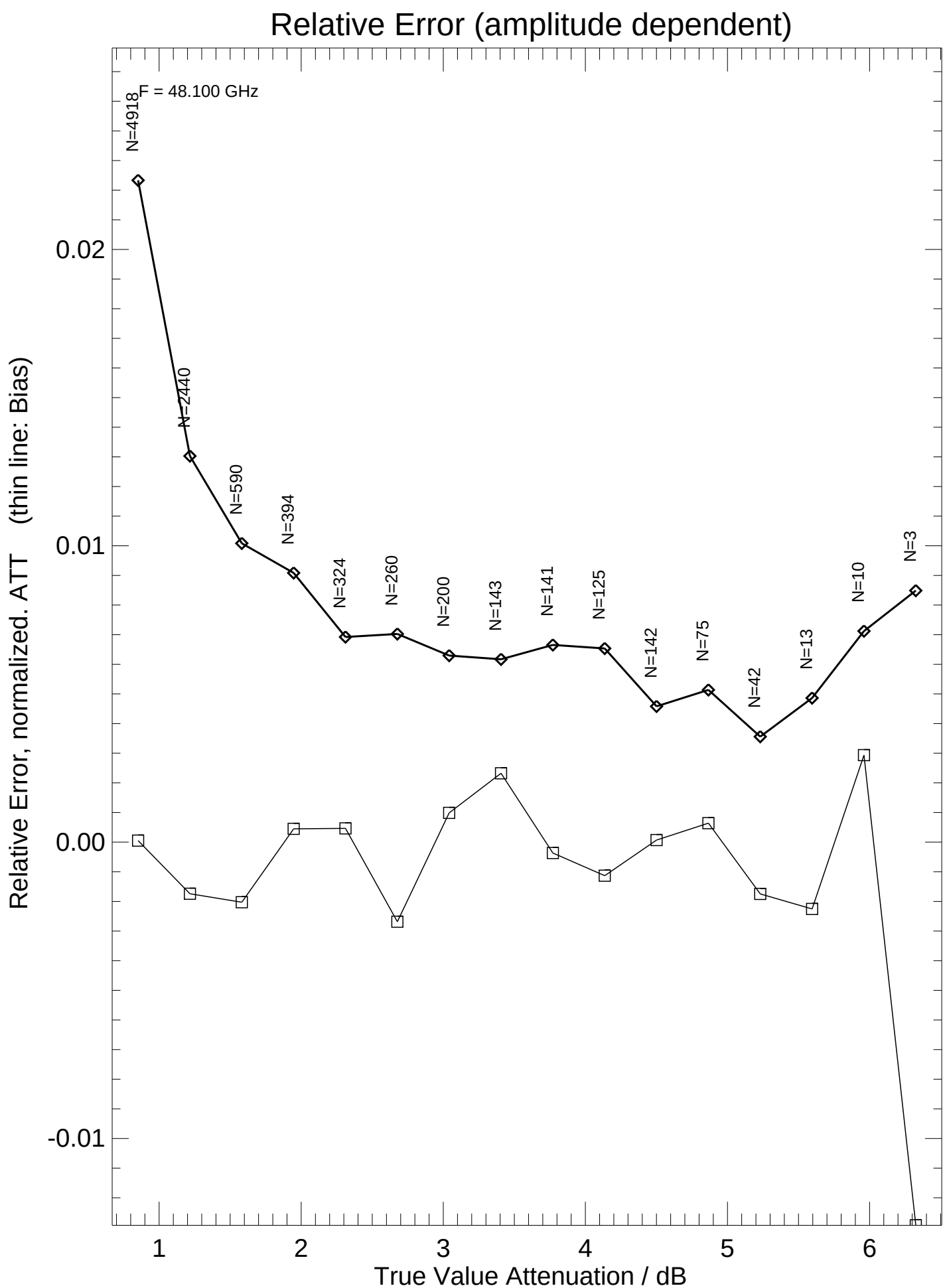

Absolute Error (amplitude dependent)
F = 47.900 GHz
Mean StD = 0.02 Max StD = 0.04
Mean bias = 0.00 Max bias = 0.02
N=4926
N=2433
N=589
N=394
N=324
N=261
N=199
N=146
N=139
N=126
N=140
N=75
N=42
N=13
N=10
N=3
0.06
0.04
0.02
0.00
-0.02
-0.04
-0.06
-0.08
1
2
3
4
5
6
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

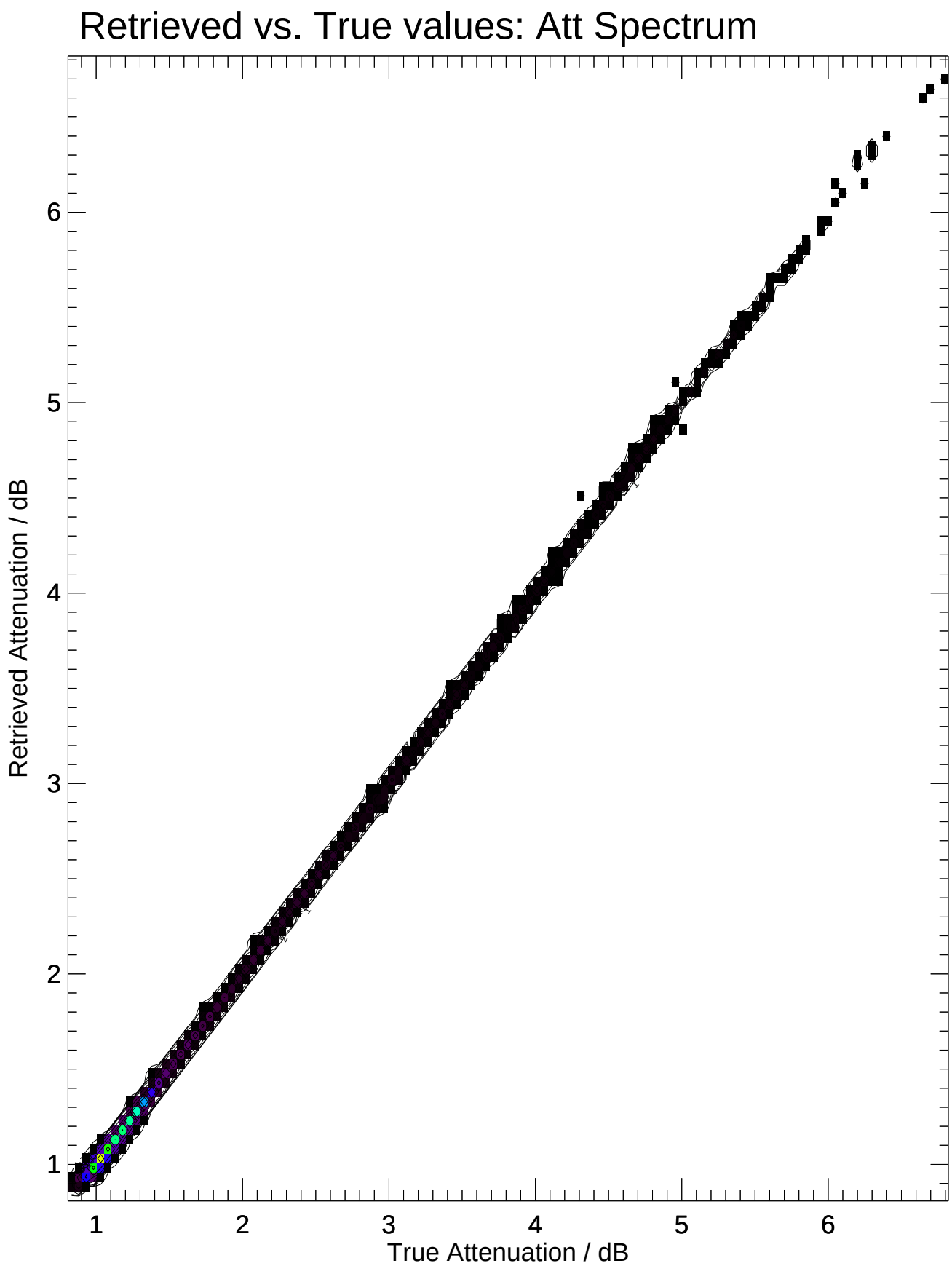

Relative Error (amplitude dependent)
F = 47.900 GHz
N=4926
N=2433
N=589
N=394
N=324
N=261
N=199
N=146
N=139
N=126
N=140
N=75
N=42
N=13
N=10
N=3
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
1
2
3
4
5
6
True Value Attenuation / dB

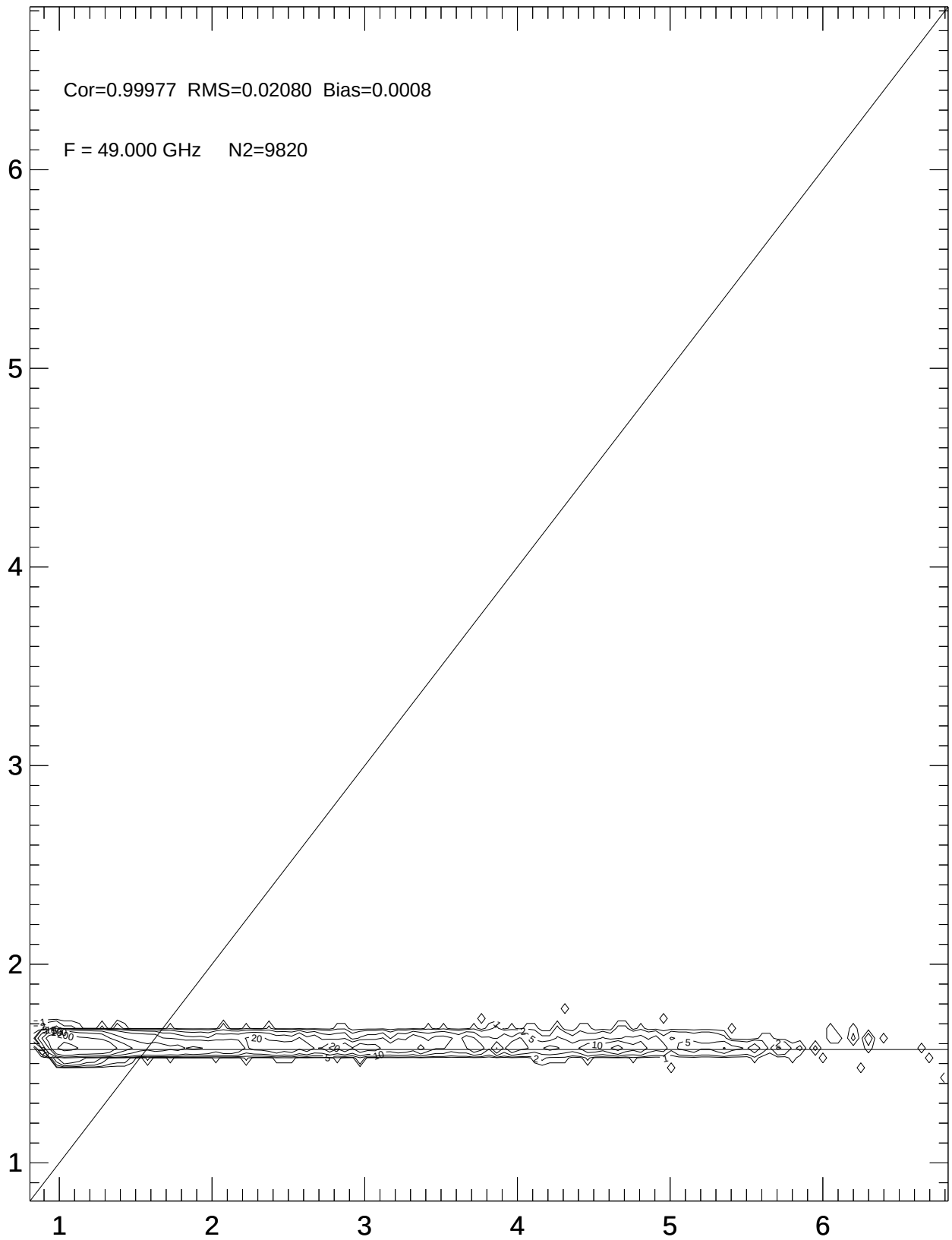

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
1
2
3
4
5
6

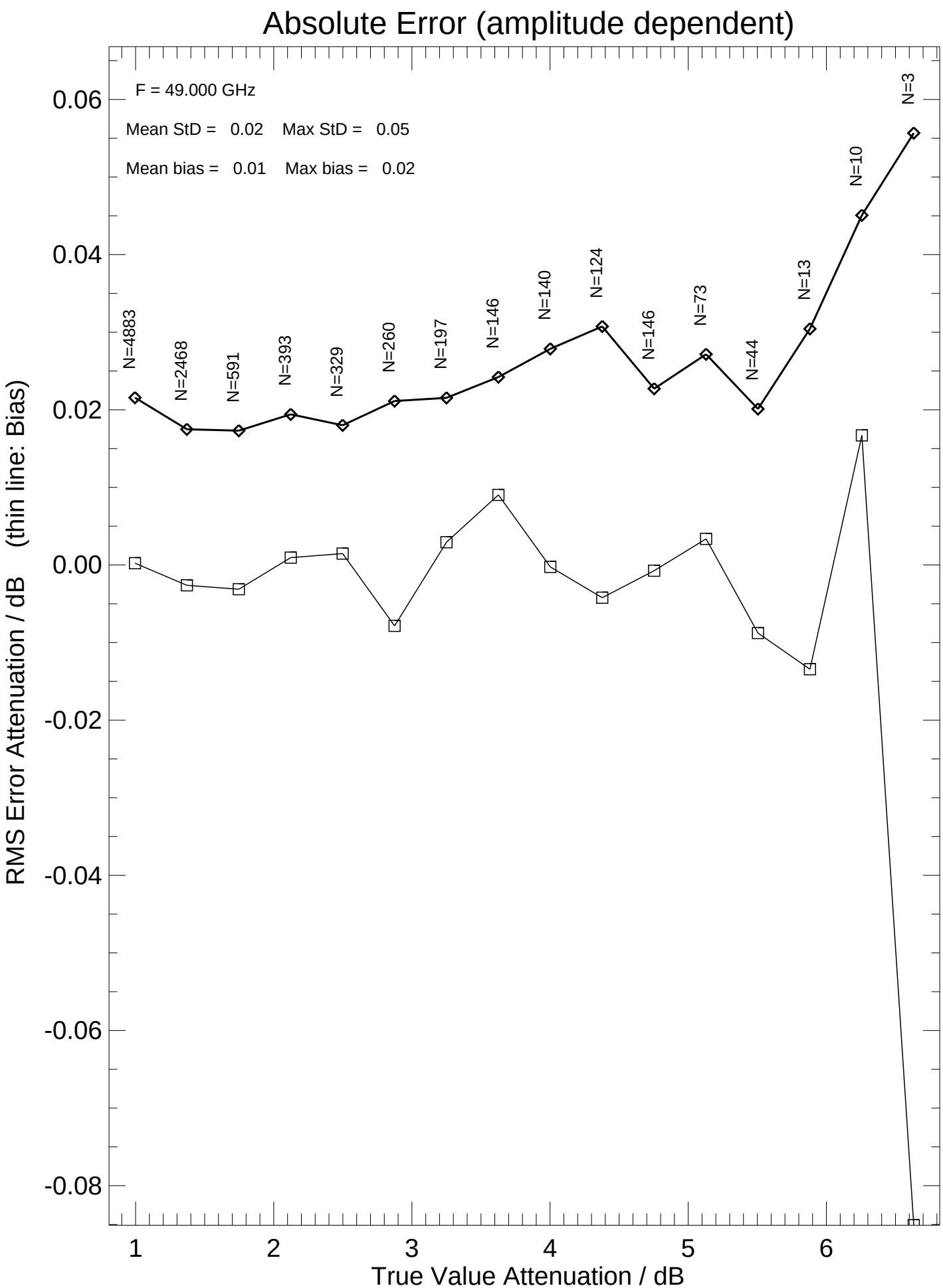

Cor=0.99980 RMS=0.01857 Bias=0.0008
F = 48.100 GHz N2=9820
1
2
3
4
5
6

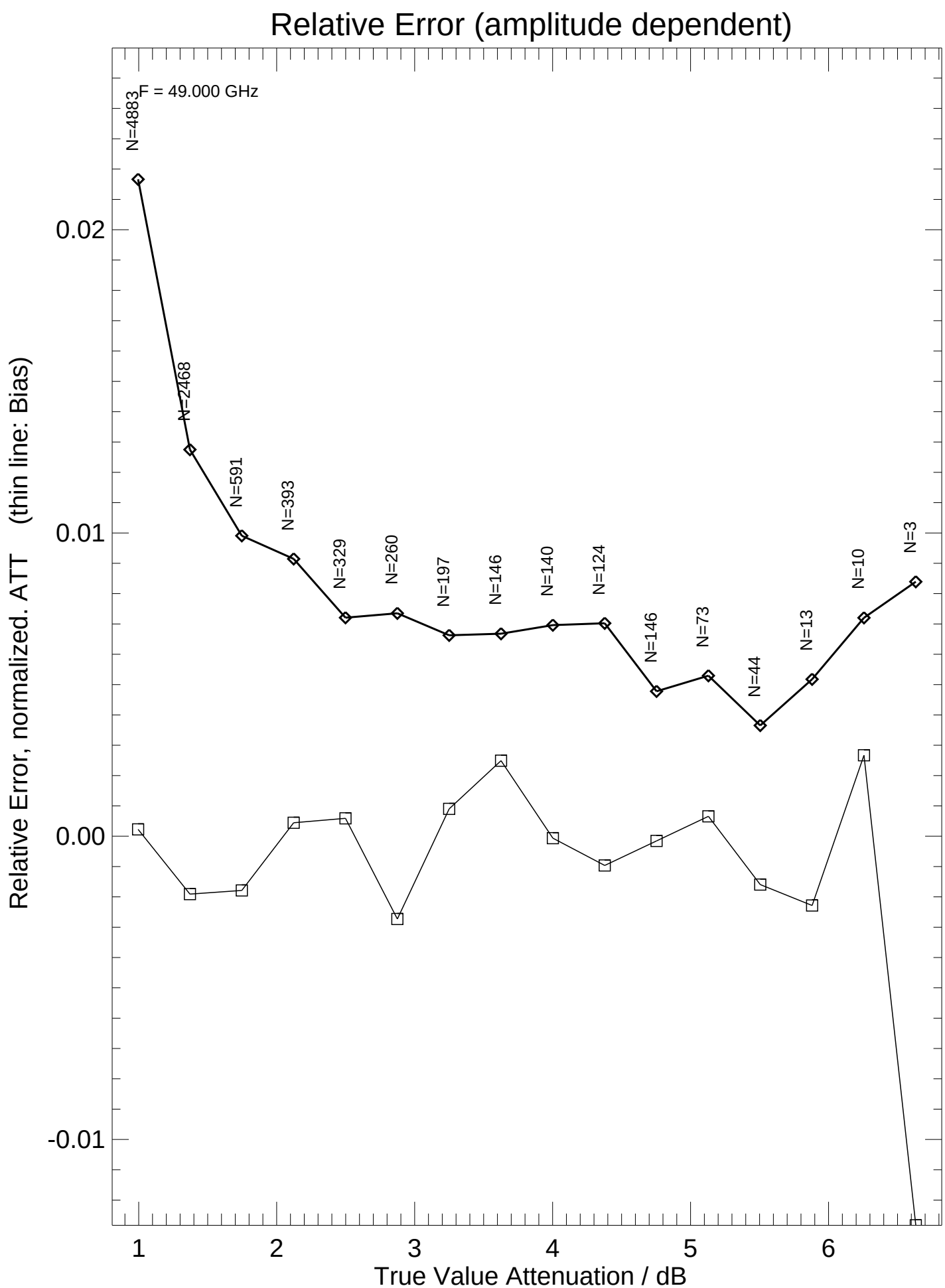

Absolute Error (amplitude dependent)
F = 48.100 GHz
Mean StD = 0.02 Max StD = 0.04
Mean bias = 0.00 Max bias = 0.02
N=4918
N=2440
N=590
N=394
N=324
N=260
N=200
N=143
N=141
N=125
N=142
N=75
N=42
N=13
N=10
N=3
0.06
0.04
0.02
0.00
-0.02
-0.04
-0.06
-0.08
1
2
3
4
5
6
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

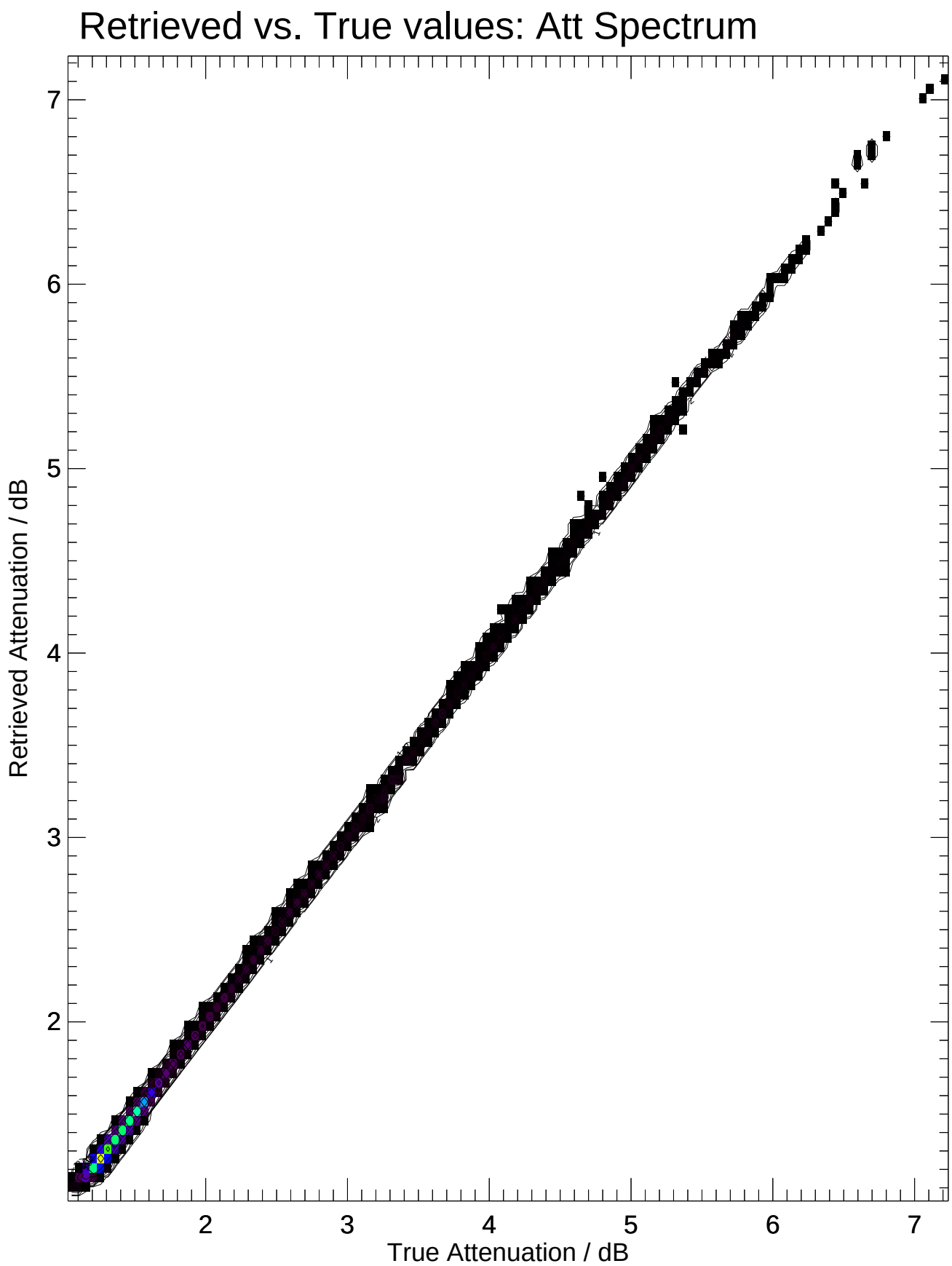

Relative Error (amplitude dependent)
F = 48.100 GHz
N=4918
N=2440
N=590
N=394
N=324
N=260
N=200
N=143
N=141
N=125
N=142
N=75
N=42
N=13
N=10
N=3
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
1
2
3
4
5
6
True Value Attenuation / dB

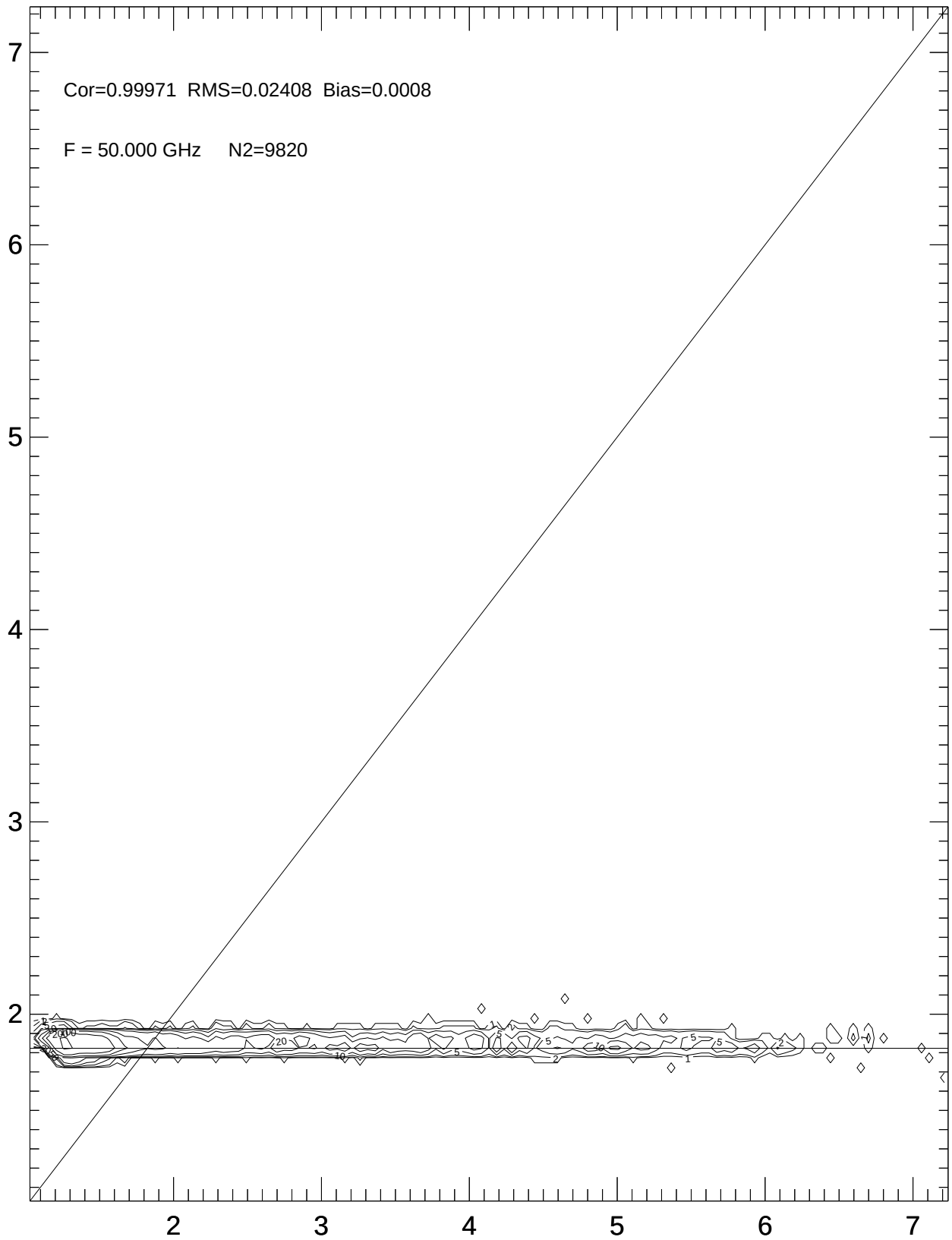

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
1
2
3
4
5
6

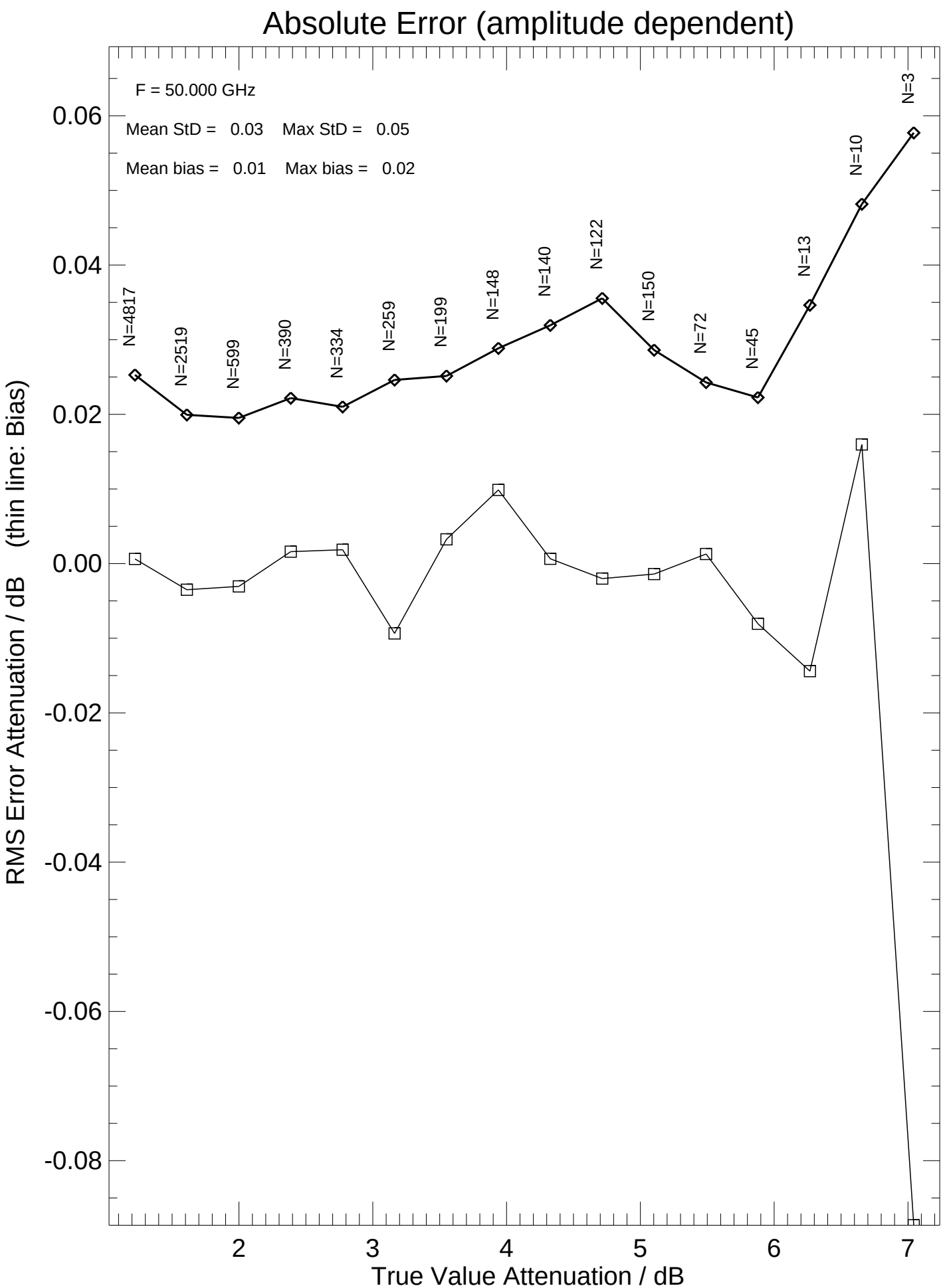

Cor=0.99977 RMS=0.02080 Bias=0.0008
F = 49.000 GHz N2=9820
1
2
3
4
5
6

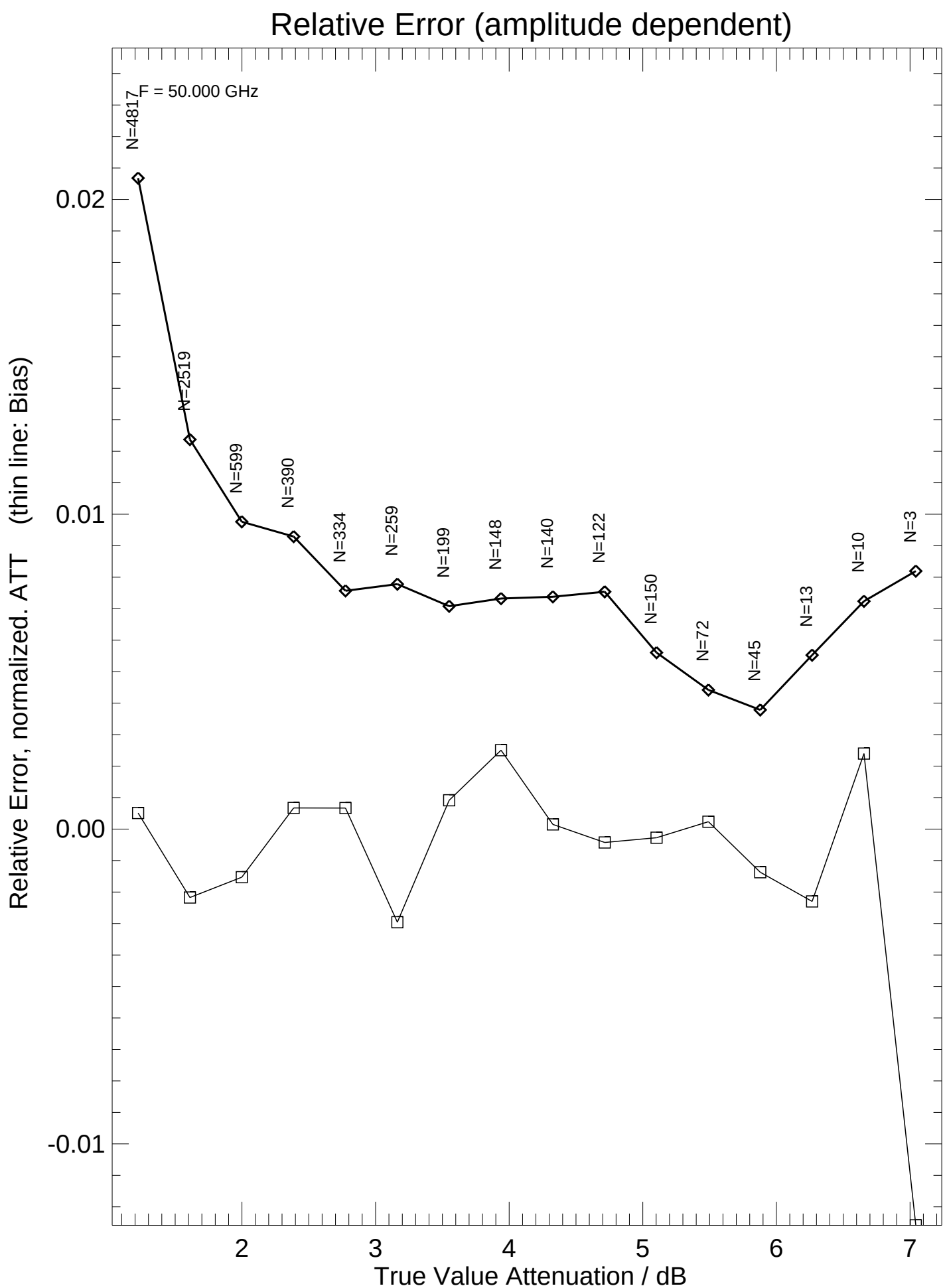

Absolute Error (amplitude dependent)
F = 49.000 GHz
Mean StD = 0.02 Max StD = 0.05
Mean bias = 0.01 Max bias = 0.02
N=4883
N=2468
N=591
N=393
N=329
N=260
N=197
N=146
N=140
N=124
N=146
N=73
N=44
N=13
N=10
N=3
0.06
0.04
0.02
0.00
-0.02
-0.04
-0.06
-0.08
1
2
3
4
5
6
RMS Error Attenuation / dB (thin line: Bias)
True Value Attenuation / dB

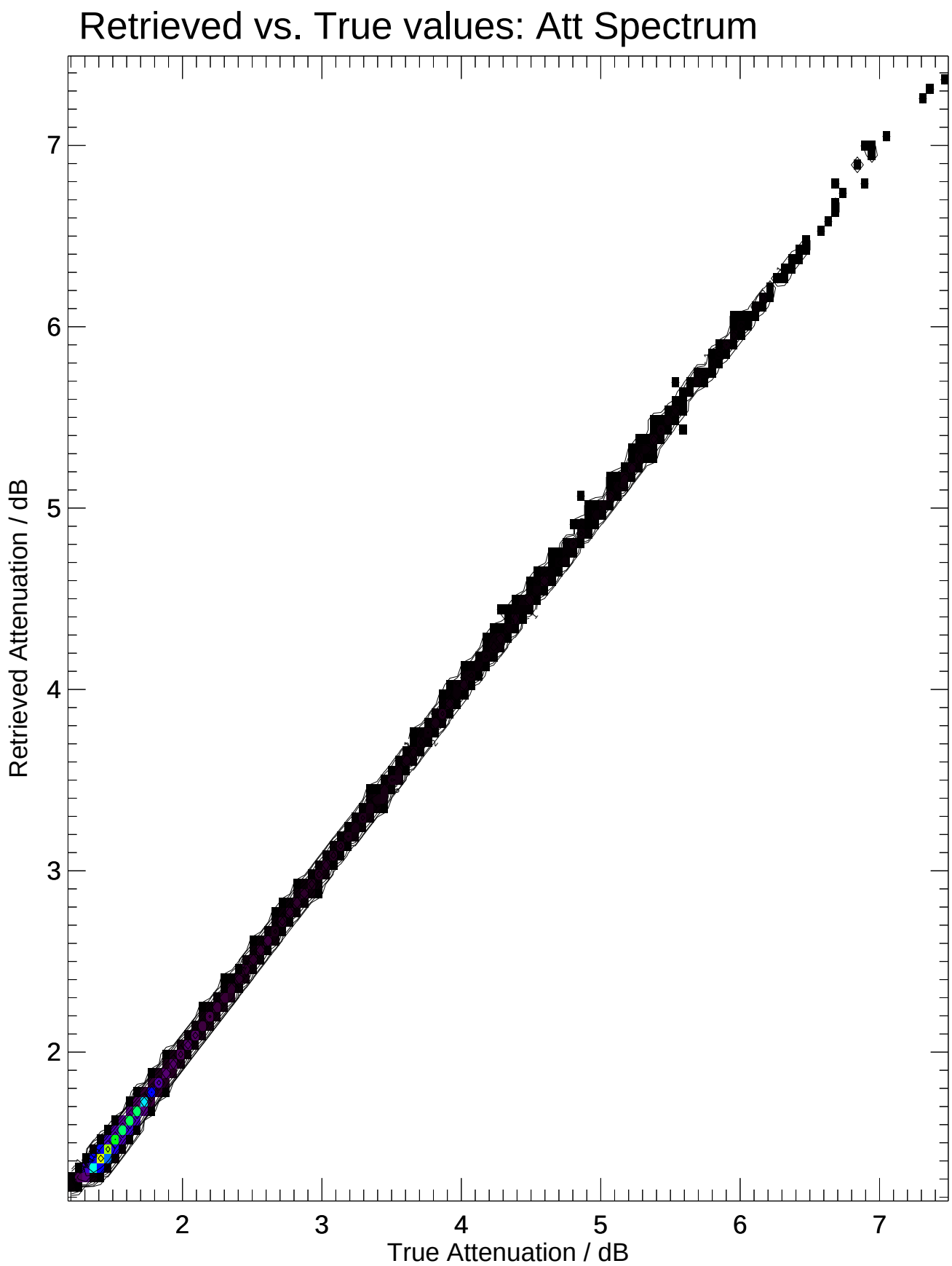

Relative Error (amplitude dependent)
F = 49.000 GHz
N=4883
N=2468
N=591
N=393
N=329
N=260
N=197
N=146
N=140
N=124
N=146
N=73
N=44
N=13
N=10
N=3
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
1
2
3
4
5
6
True Value Attenuation / dB

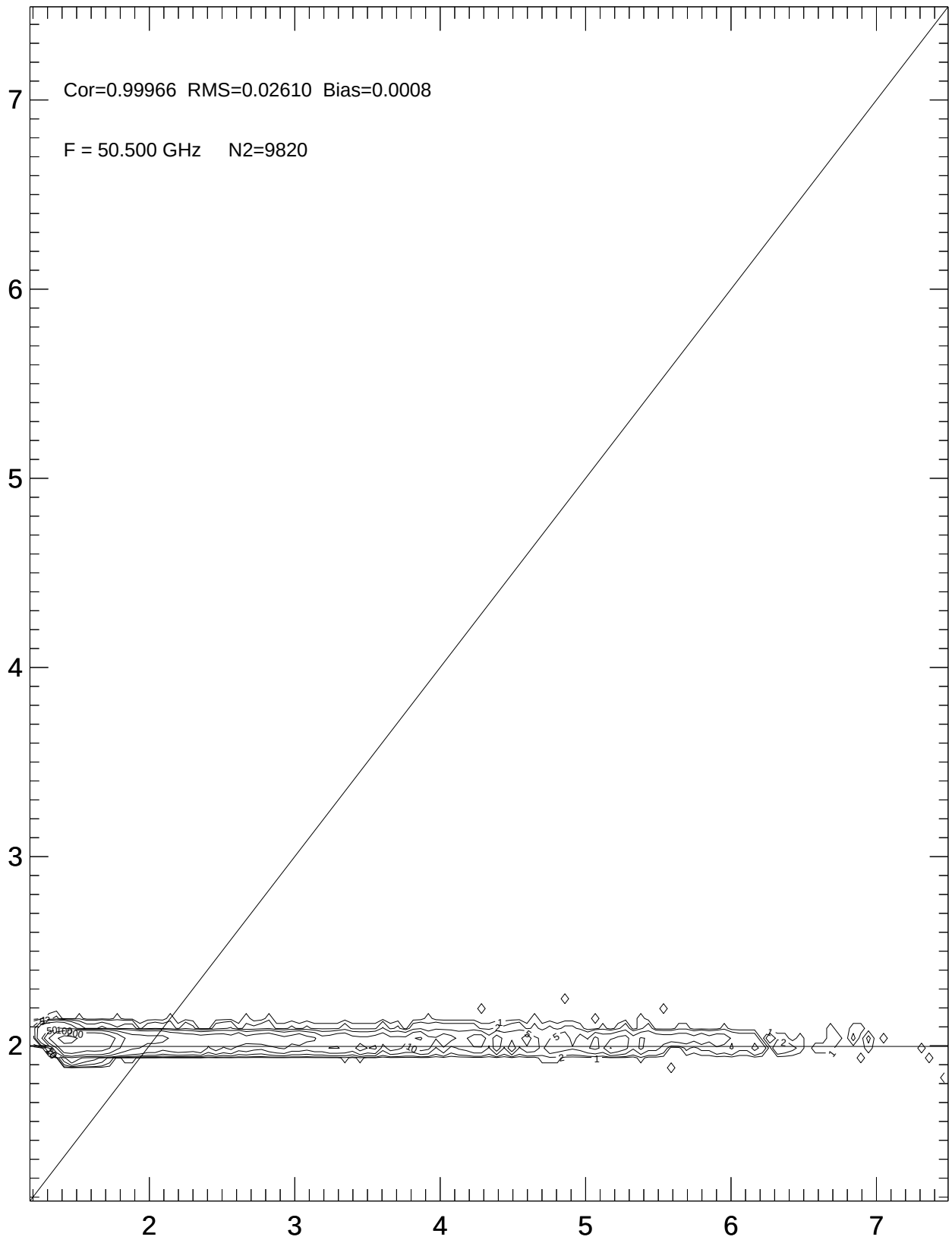

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
2
3
4
5
6
7

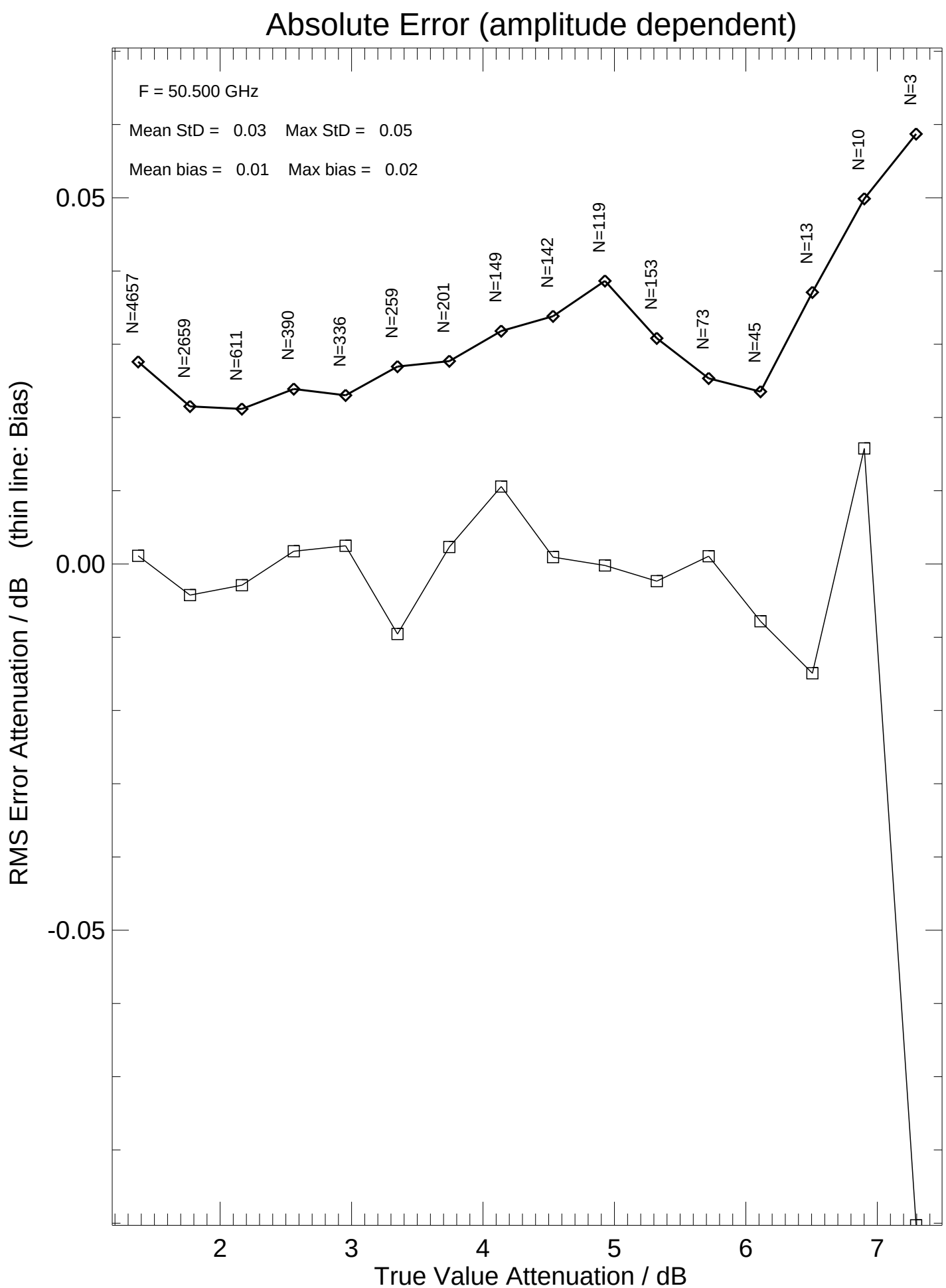

Cor=0.99971 RMS=0.02408 Bias=0.0008
F = 50.000 GHz N2=9820
7
6
5
4
3
2
2
3
4
5
6
7

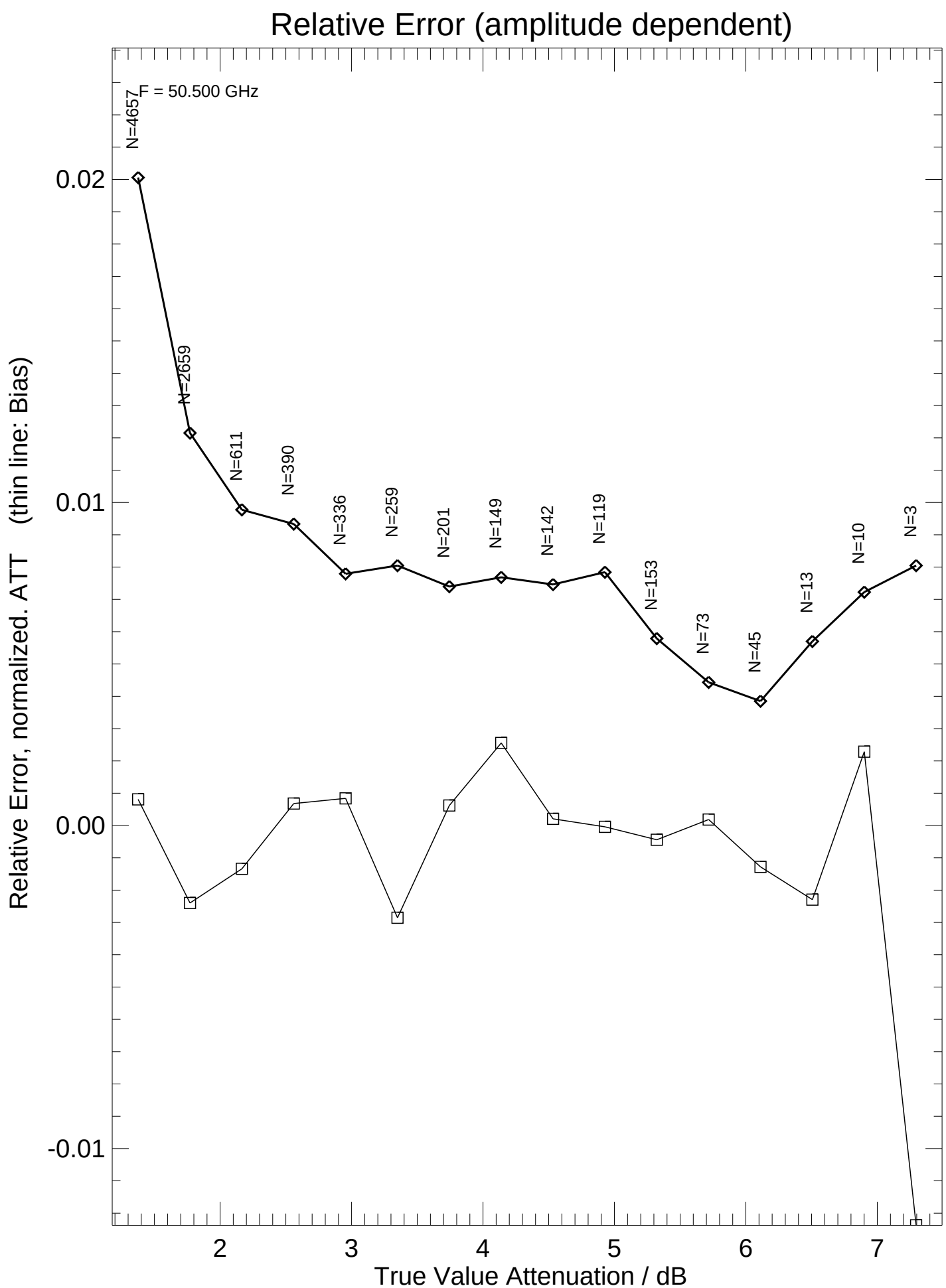

Absolute Error (amplitude dependent)
F = 50.000 GHz
Mean StD = 0.03 Max StD = 0.05
Mean bias = 0.01 Max bias = 0.02
N=4817
N=2519
N=599
N=390
N=334
N=259
N=199
N=148
N=140
N=122
N=150
N=72
N=45
N=13
N=10
N=3
0.06
0.04
0.02
0.00
-0.02
-0.04
-0.06
-0.08
RMS Error Attenuation / dB (thin line: Bias)
2
3
4
5
6
7
True Value Attenuation / dB

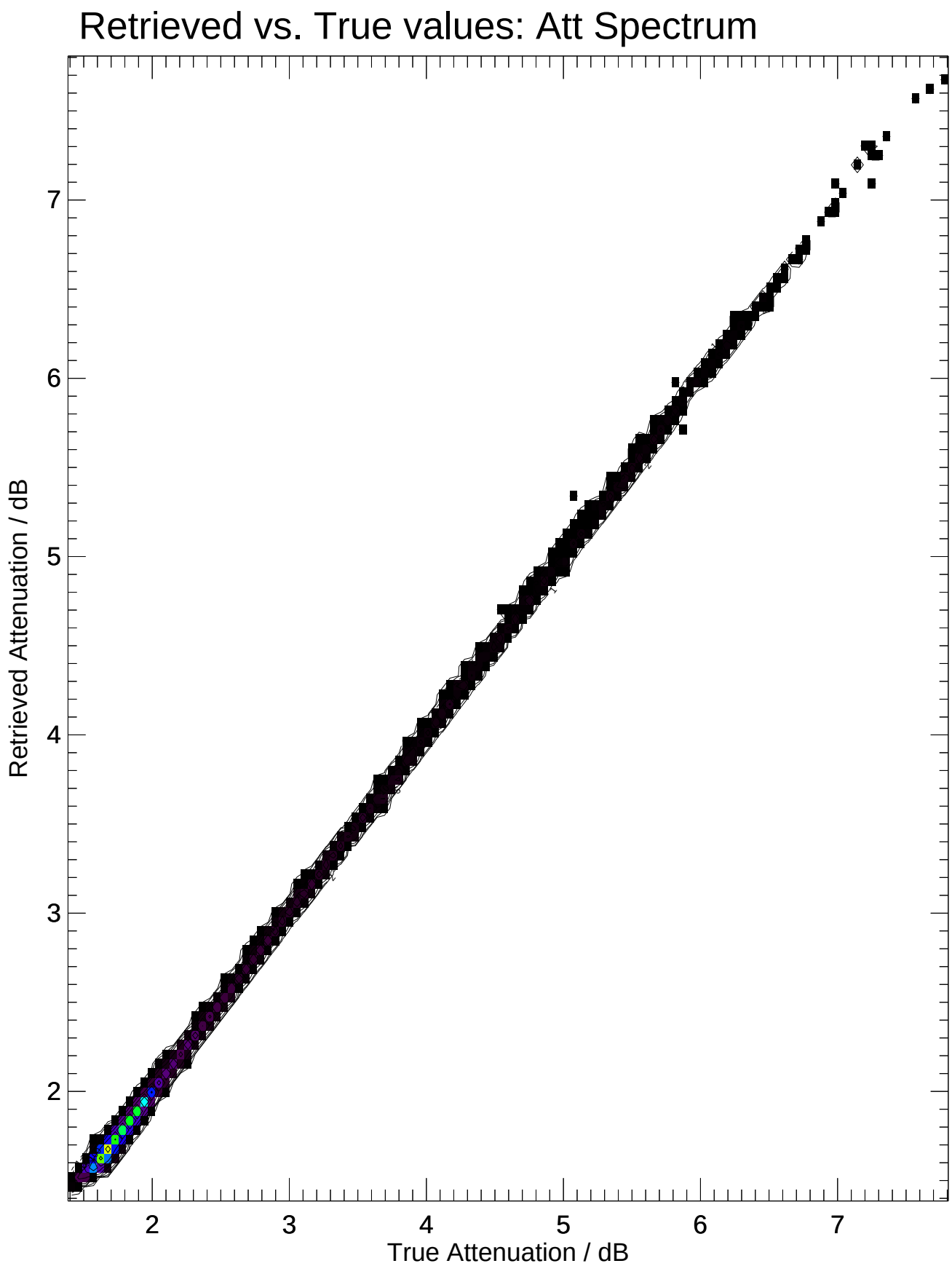

Relative Error (amplitude dependent)
F = 50.000 GHz
N=4817
N=2519
N=599
N=390
N=334
N=259
N=199
N=148
N=140
N=122
N=150
N=72
N=45
N=13
N=10
N=3
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
2
3
4
5
6
7
True Value Attenuation / dB

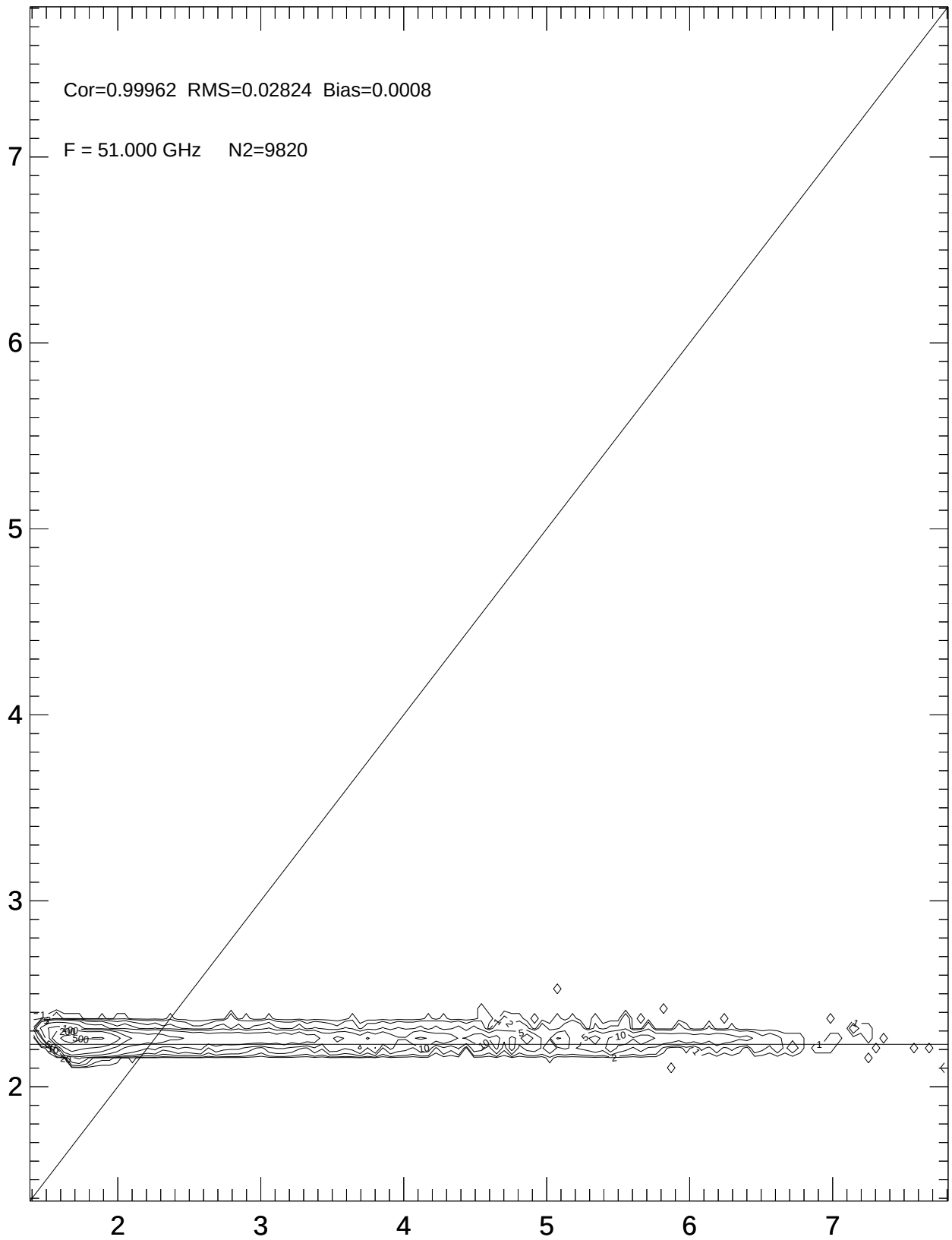

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
2
3
4
5
6
7

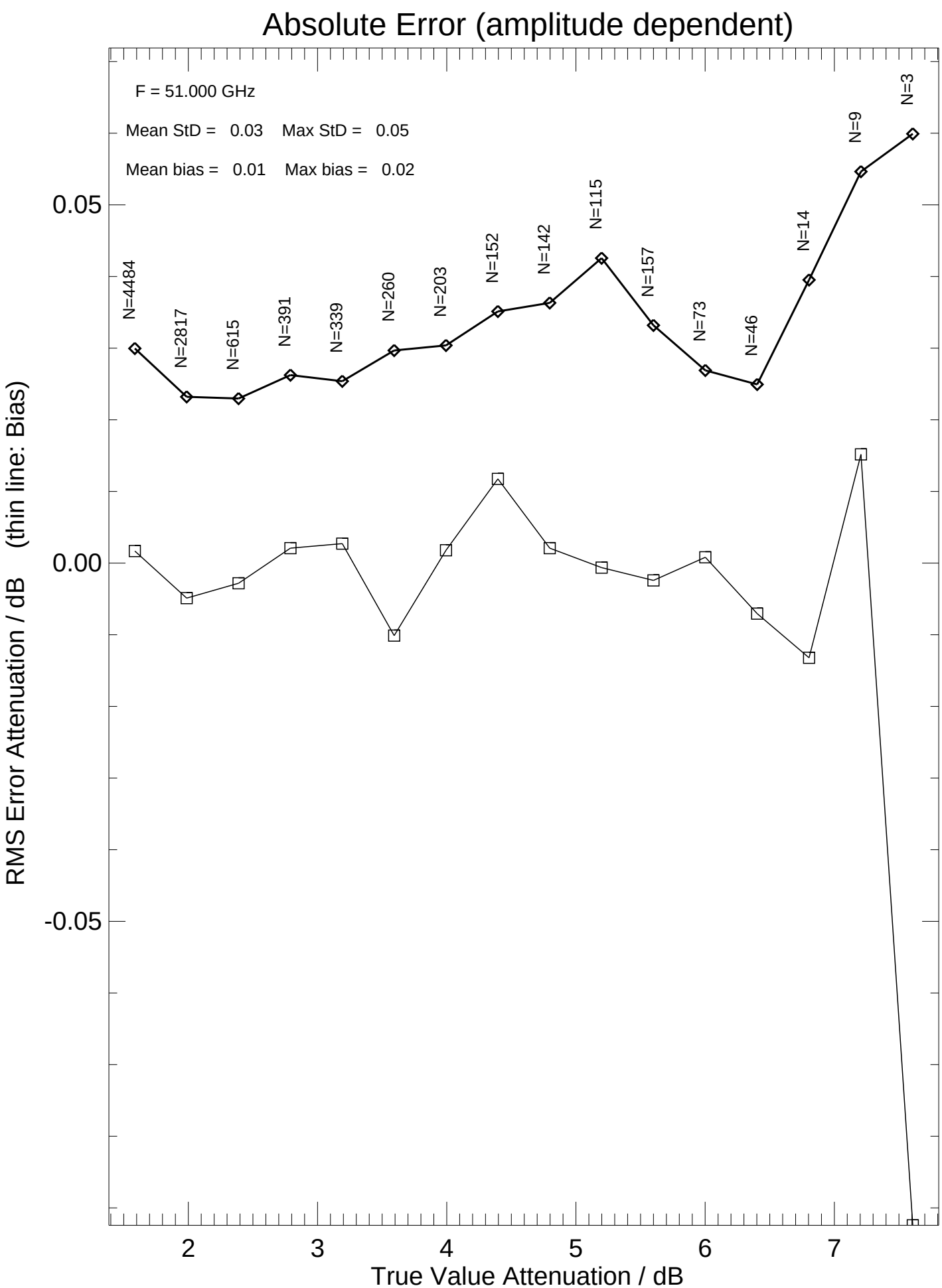

Cor=0.99966 RMS=0.02610 Bias=0.0008
F = 50.500 GHz N2=9820
7
6
5
4
3
2
2
3
4
5
6
7

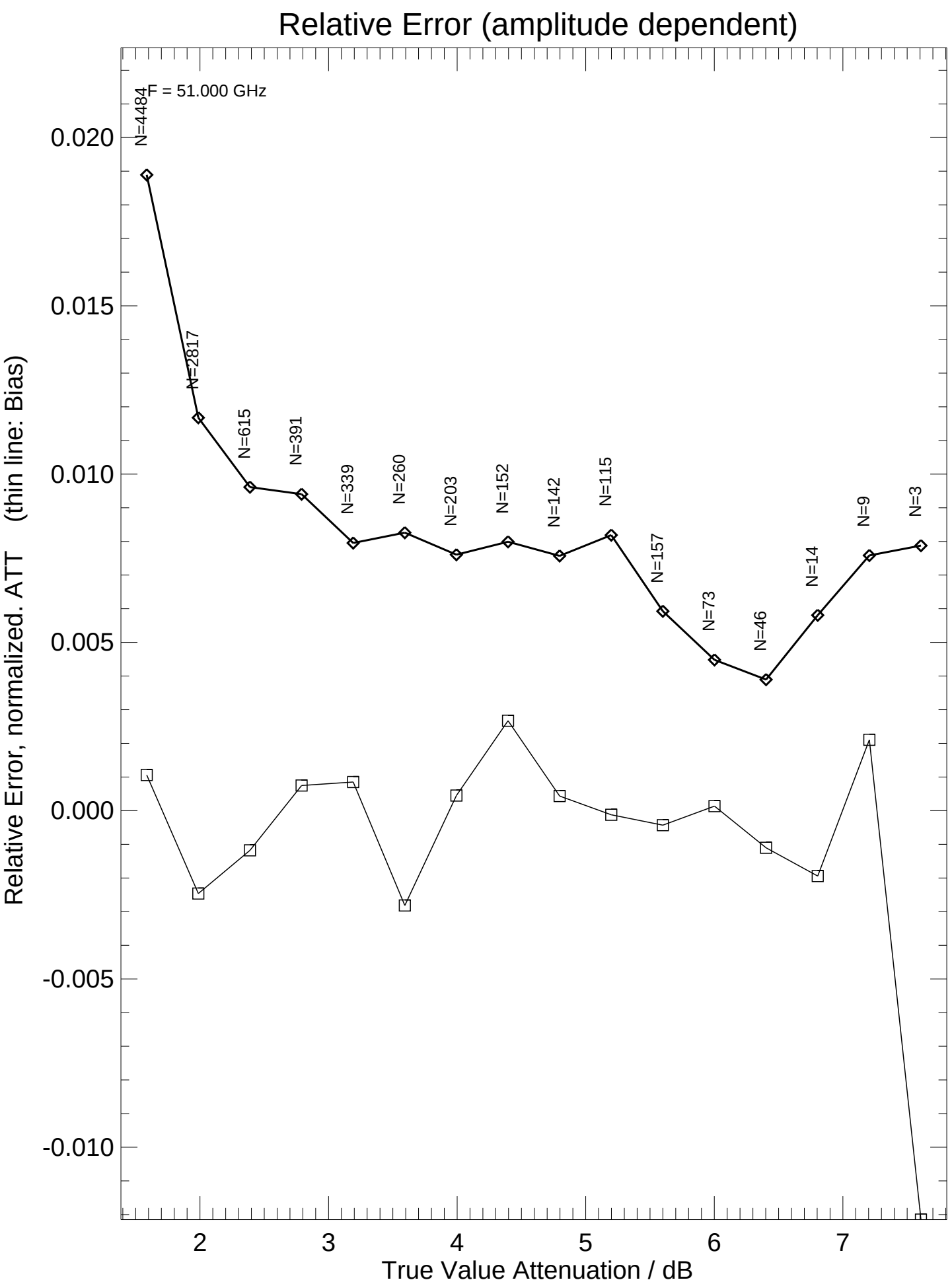

Absolute Error (amplitude dependent)
F = 50.500 GHz
Mean StD = 0.03 Max StD = 0.05
Mean bias = 0.01 Max bias = 0.02
N=4657
N=2659
N=611
N=390
N=336
N=259
N=201
N=149
N=142
N=119
N=153
N=73
N=45
N=13
N=10
N=3
0.05
0.00
-0.05
RMS Error Attenuation / dB (thin line: Bias)
2
3
4
5
6
7
True Value Attenuation / dB

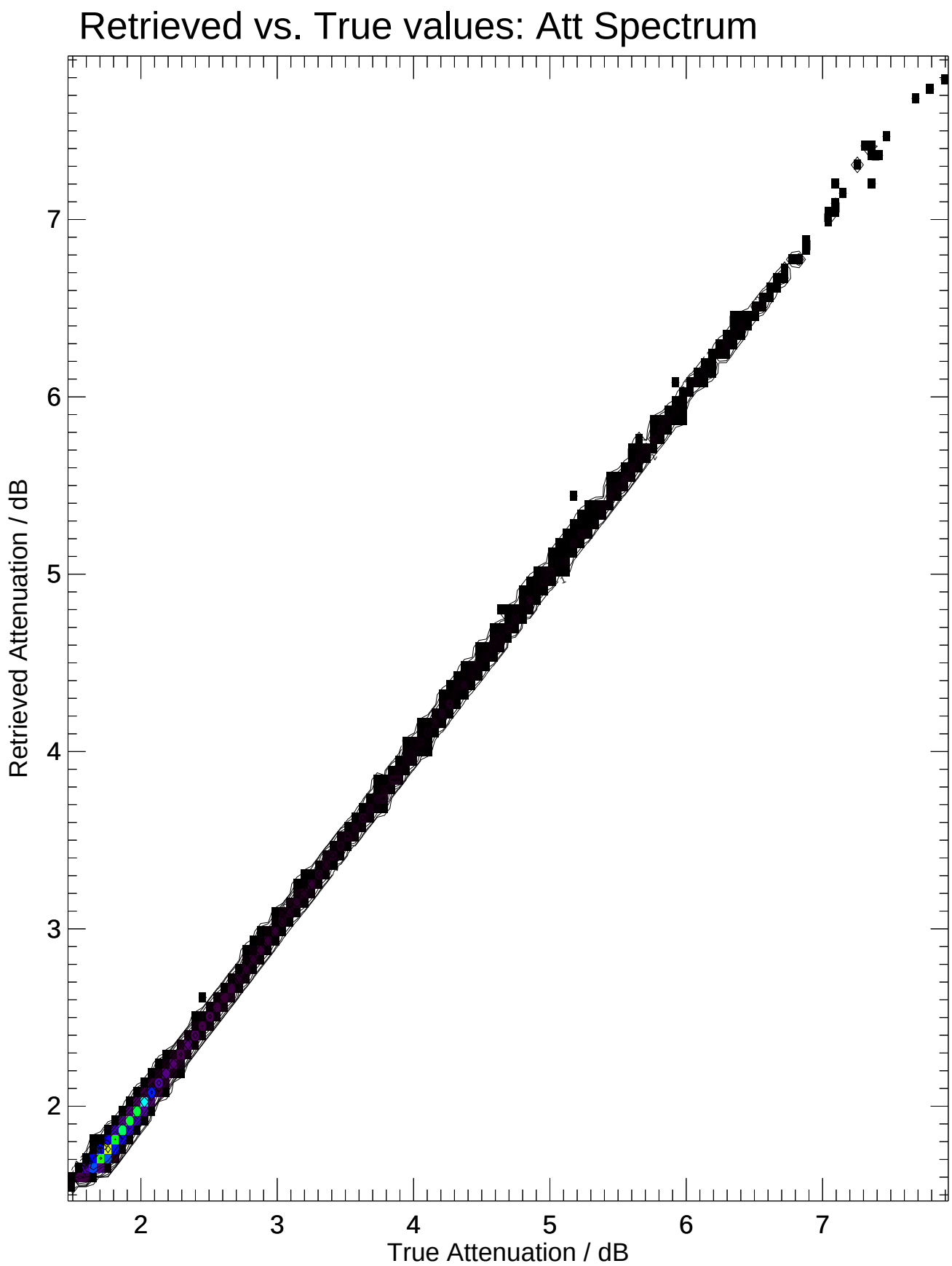

Relative Error (amplitude dependent)
F = 50.500 GHz
N=4657
N=2659
N=611
N=390
N=336
N=259
N=201
N=149
N=142
N=119
N=153
N=73
N=45
N=13
N=10
N=3
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
2
3
4
5
6
7
True Value Attenuation / dB

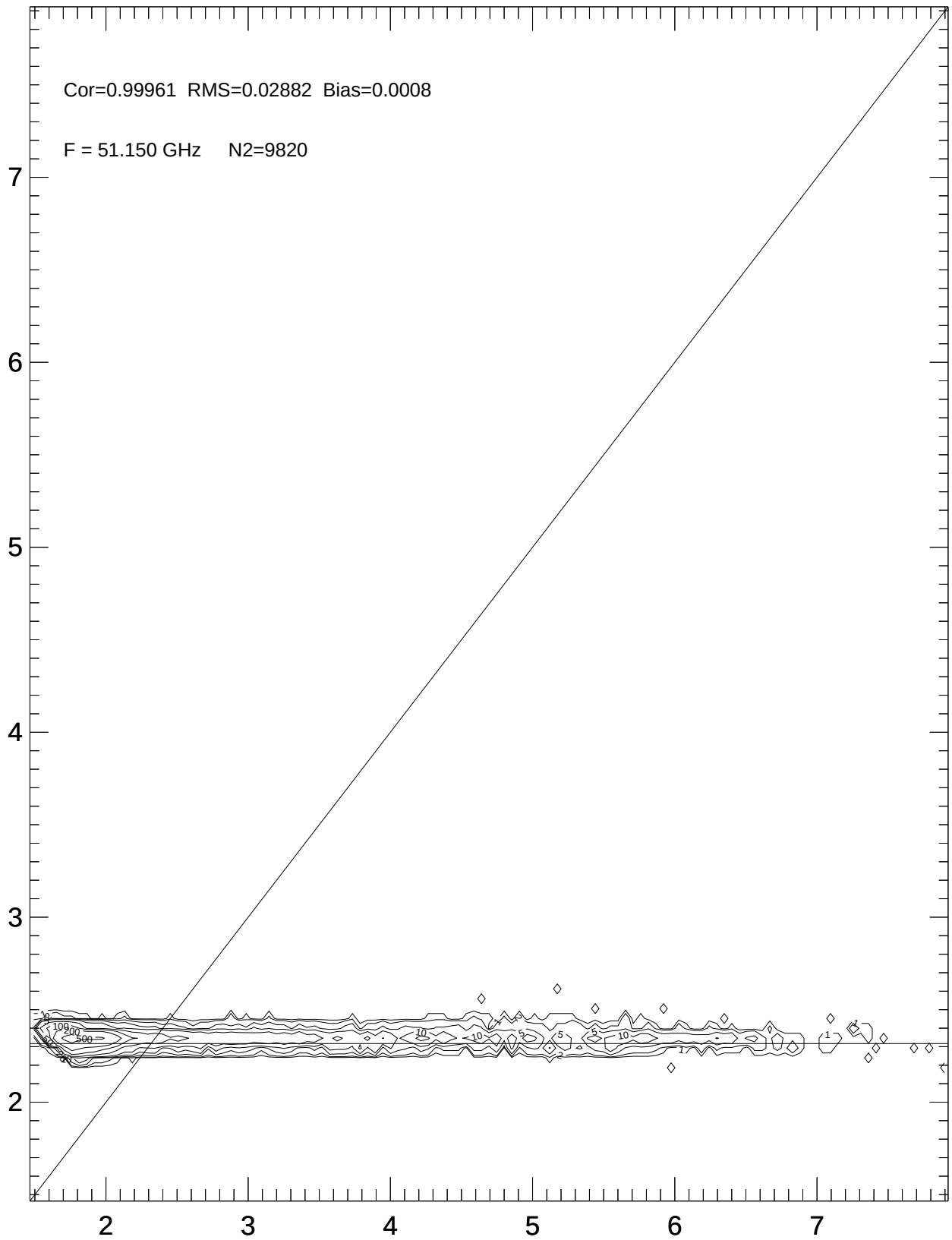

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
2
3
4
5
6
7

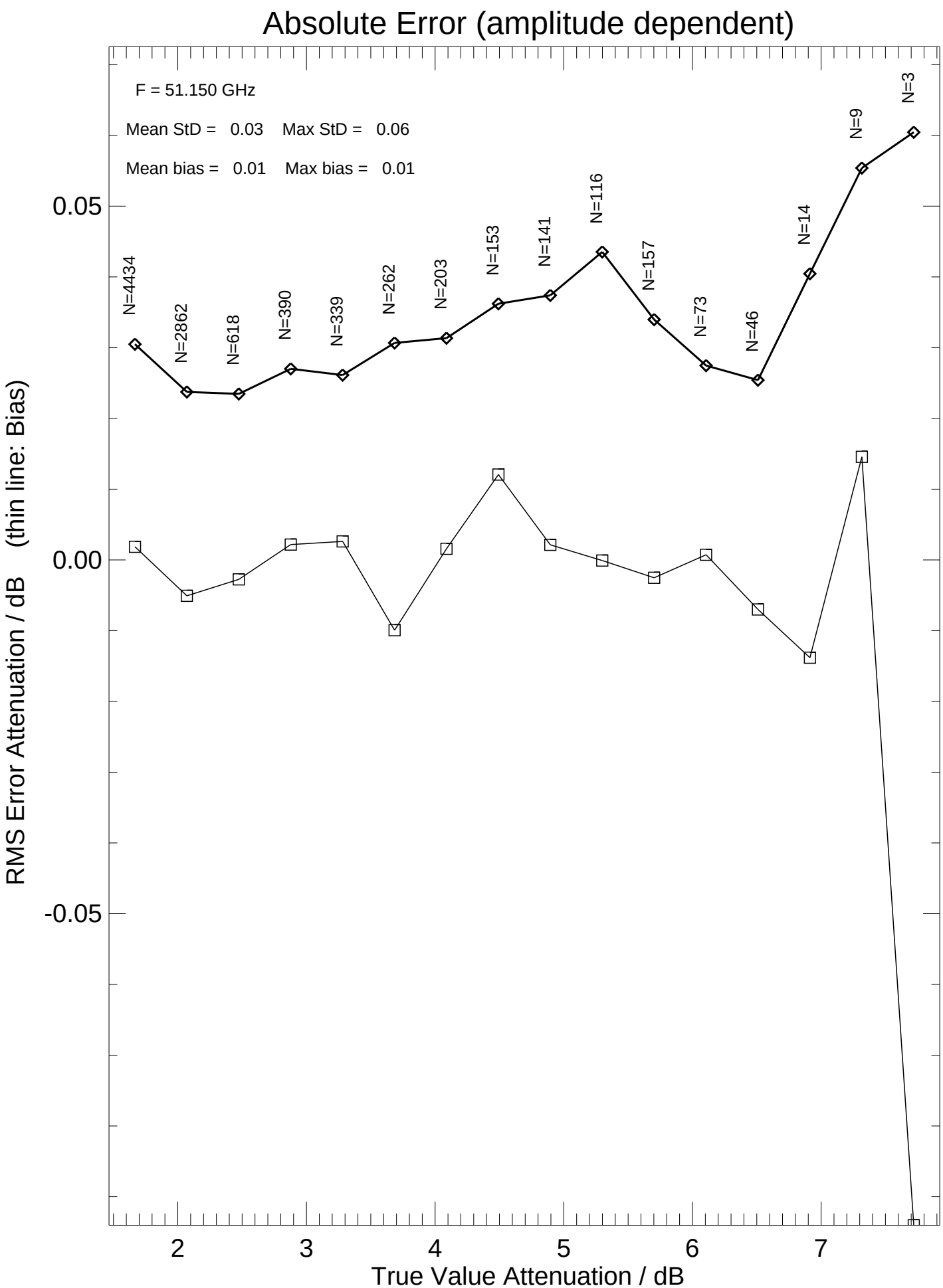

Cor=0.99962 RMS=0.02824 Bias=0.0008
F = 51.000 GHz N2=9820
7
6
5
4
3
2
2
3
4
5
6
7

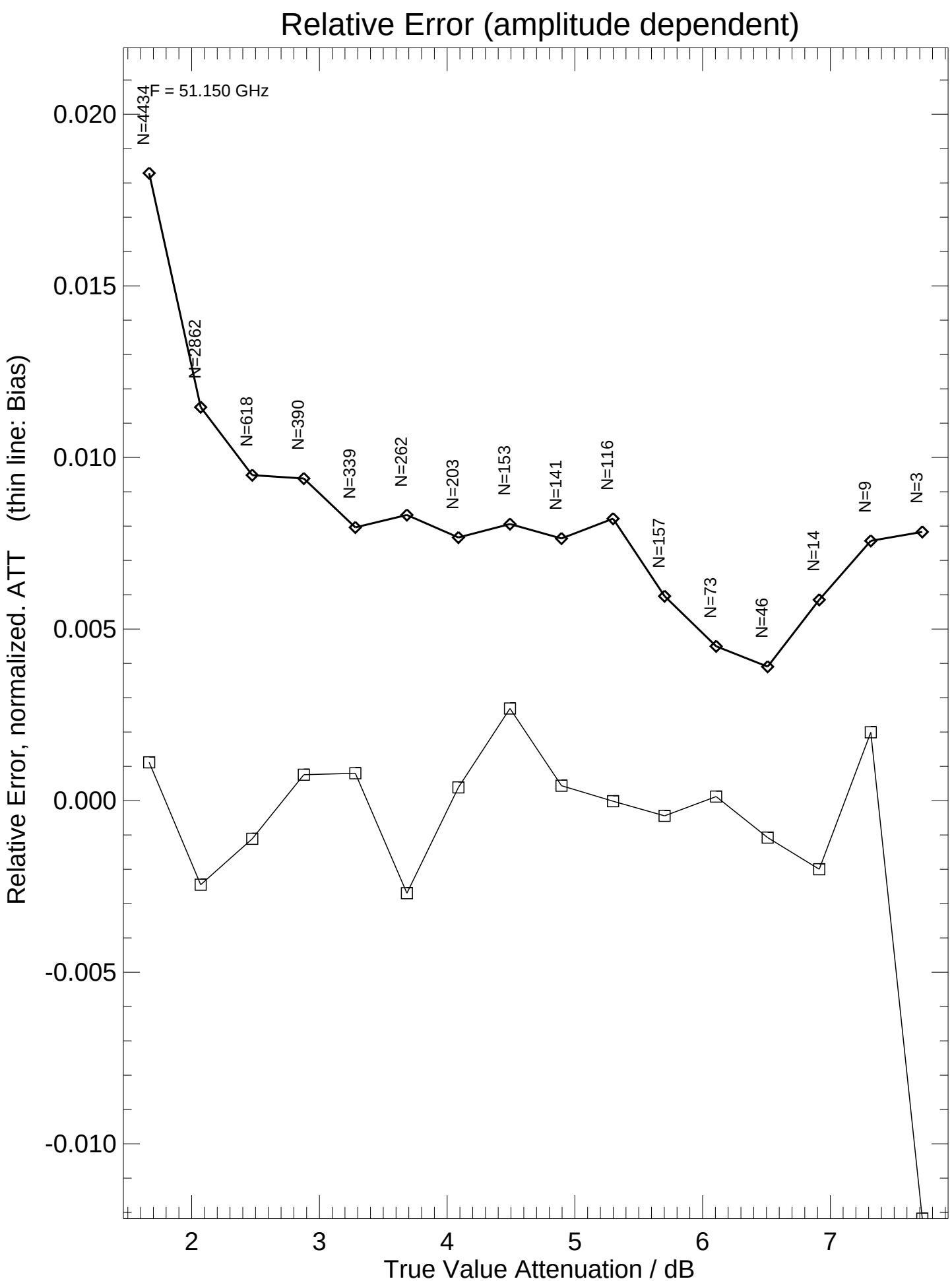

Absolute Error (amplitude dependent)
F = 51.000 GHz
Mean StD = 0.03 Max StD = 0.05
Mean bias = 0.01 Max bias = 0.02
N=4484
N=2817
N=615
N=391
N=339
N=260
N=203
N=152
N=142
N=115
N=157
N=73
N=46
N=14
N=9
N=3
0.05
0.00
-0.05
RMS Error Attenuation / dB (thin line: Bias)
2
3
4
5
6
7
True Value Attenuation / dB

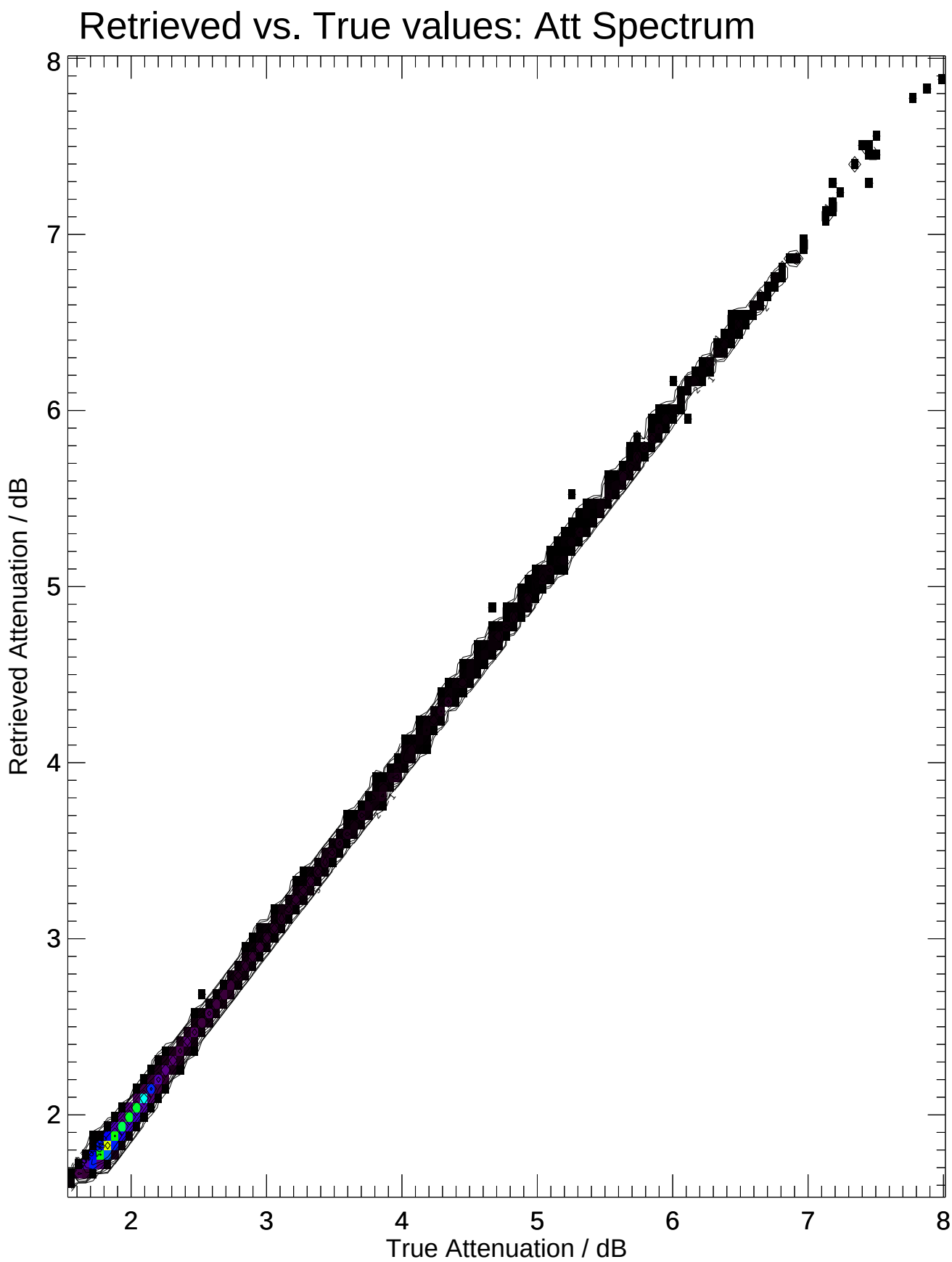

Relative Error (amplitude dependent)
F = 51.000 GHz
N=4484
N=2817
N=615
N=391
N=339
N=260
N=203
N=152
N=142
N=115
N=157
N=73
N=46
N=14
N=9
N=3
0.020
0.015
0.010
0.005
0.000
-0.005
-0.010
Relative Error, normalized. ATT (thin line: Bias)
2
3
4
5
6
7
True Value Attenuation / dB

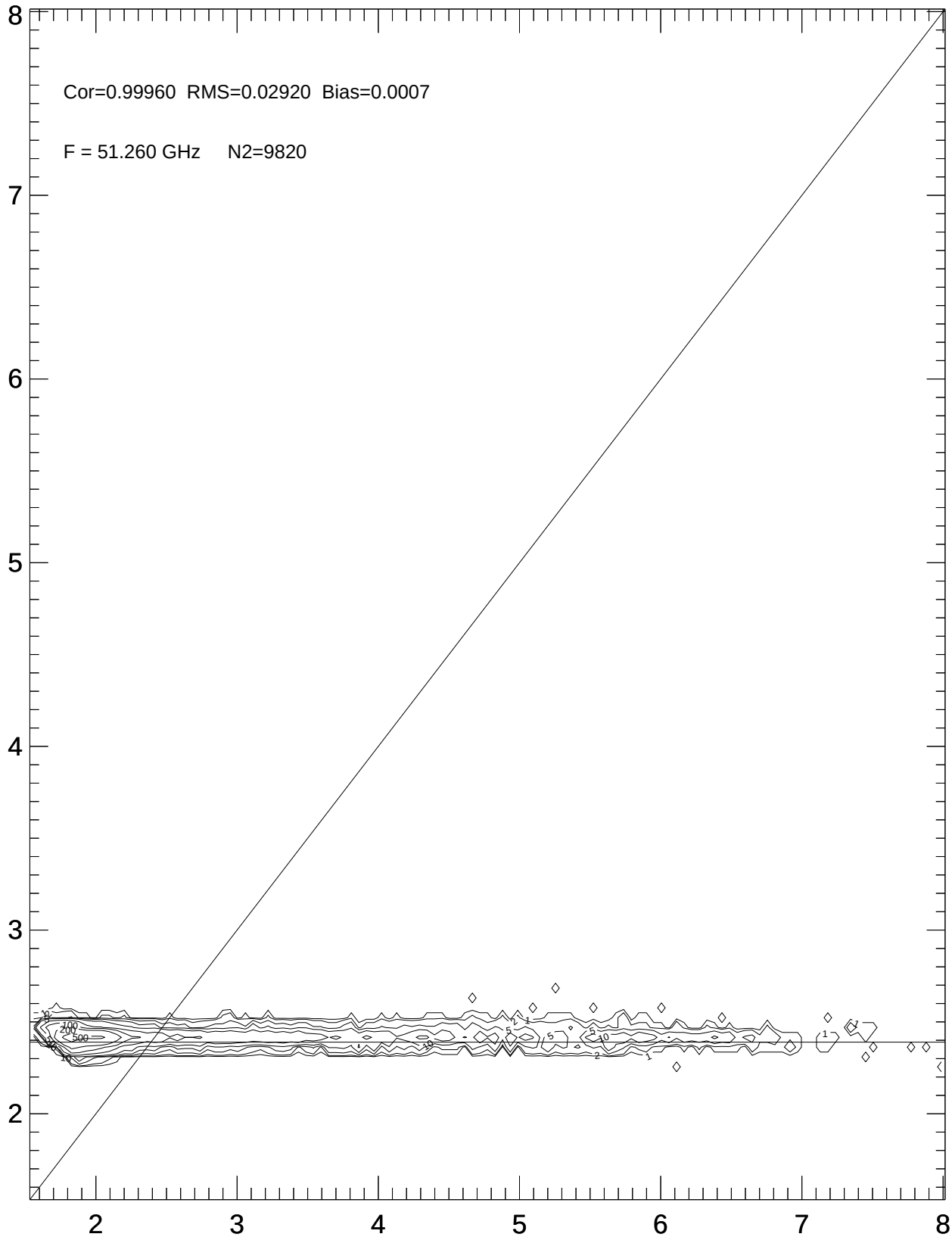

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
2
3
4
5
6
7

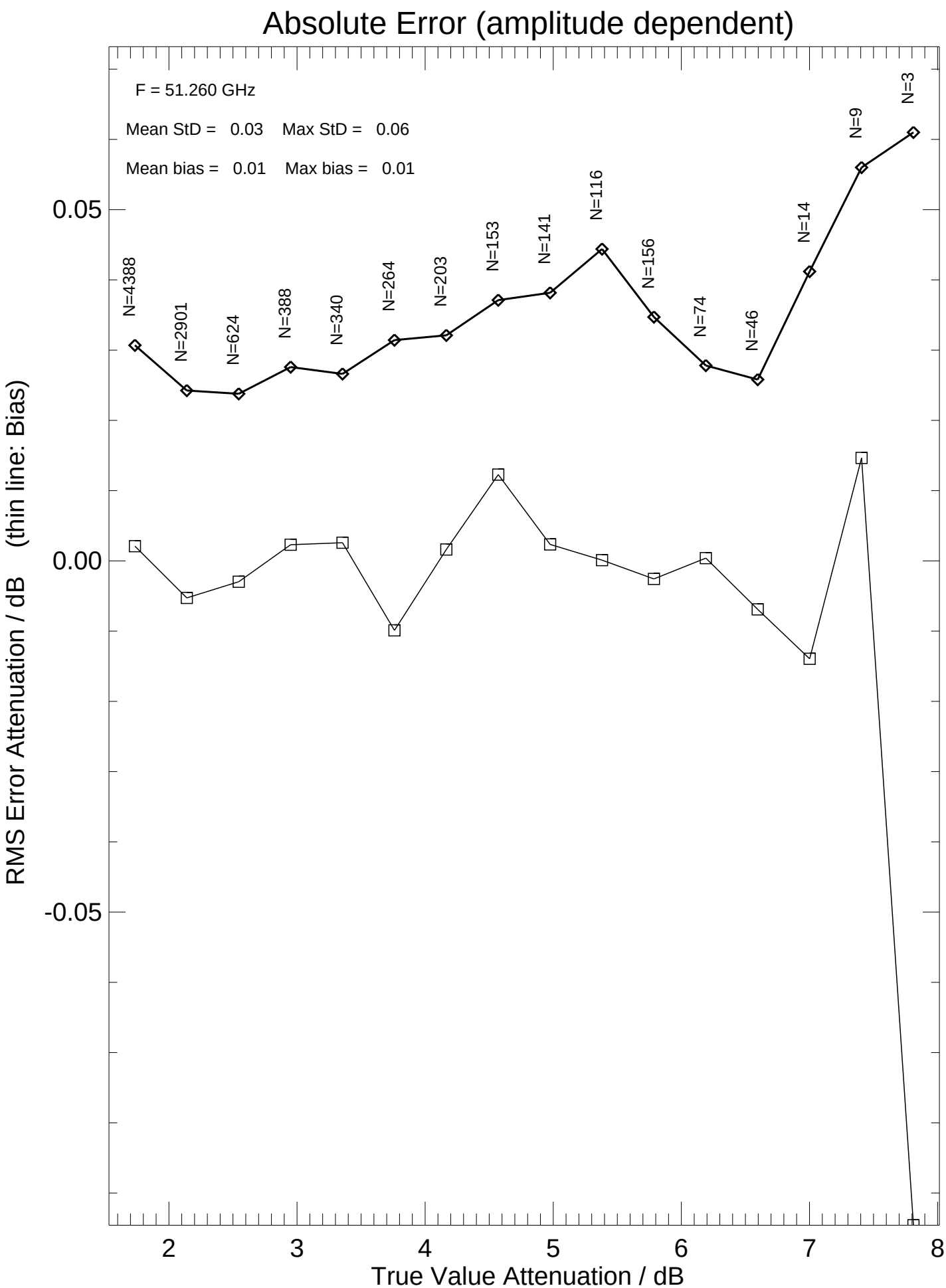

Cor=0.99961 RMS=0.02882 Bias=0.0008
F = 51.150 GHz N2=9820
7
6
5
4
3
2
2
3
4
5
6
7

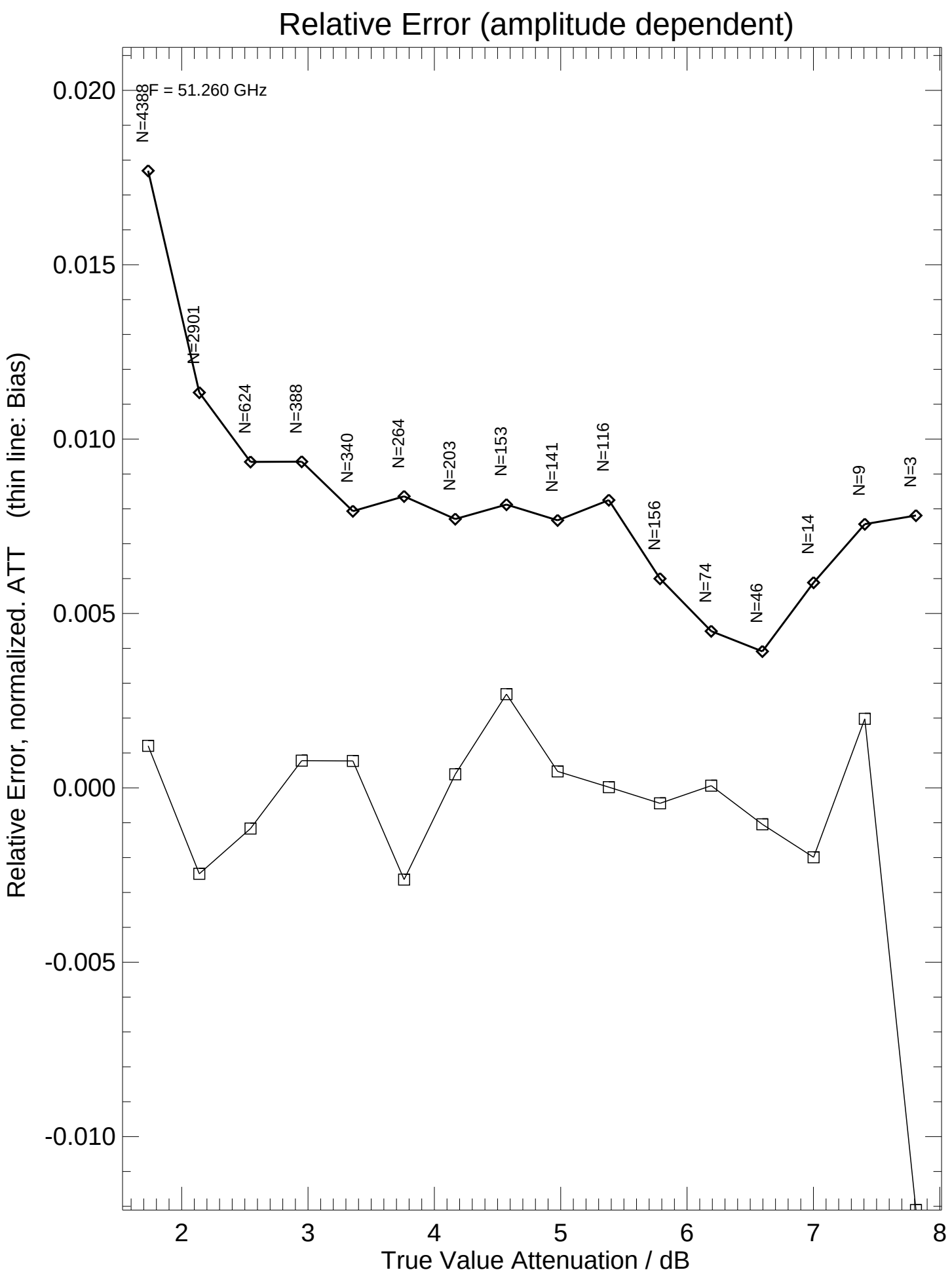

Absolute Error (amplitude dependent)
F = 51.150 GHz
Mean StD = 0.03 Max StD = 0.06
Mean bias = 0.01 Max bias = 0.01
N=4434
N=2862
N=618
N=390
N=339
N=262
N=203
N=153
N=141
N=116
N=157
N=73
N=46
N=14
N=9
N=3
0.05
0.00
-0.05
RMS Error Attenuation / dB (thin line: Bias)
2
3
4
5
6
7
True Value Attenuation / dB

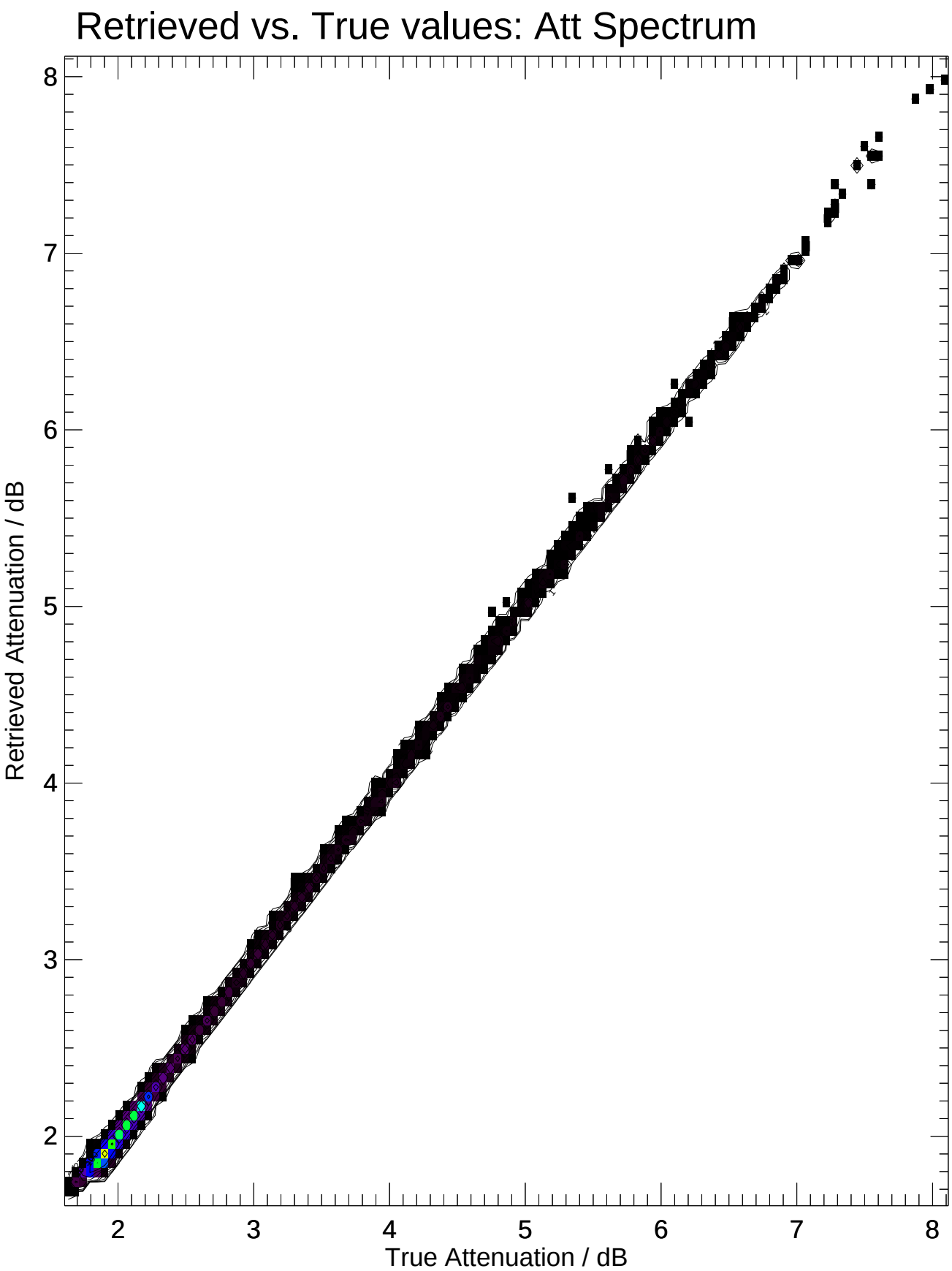

Relative Error (amplitude dependent)
F = 51.150 GHz
N=4434
N=2862
N=618
N=390
N=339
N=262
N=203
N=153
N=141
N=116
N=157
N=73
N=46
N=14
N=9
N=3
0.020
0.015
0.010
0.005
0.000
-0.005
-0.010
Relative Error, normalized. ATT (thin line: Bias)
2
3
4
5
6
7
True Value Attenuation / dB

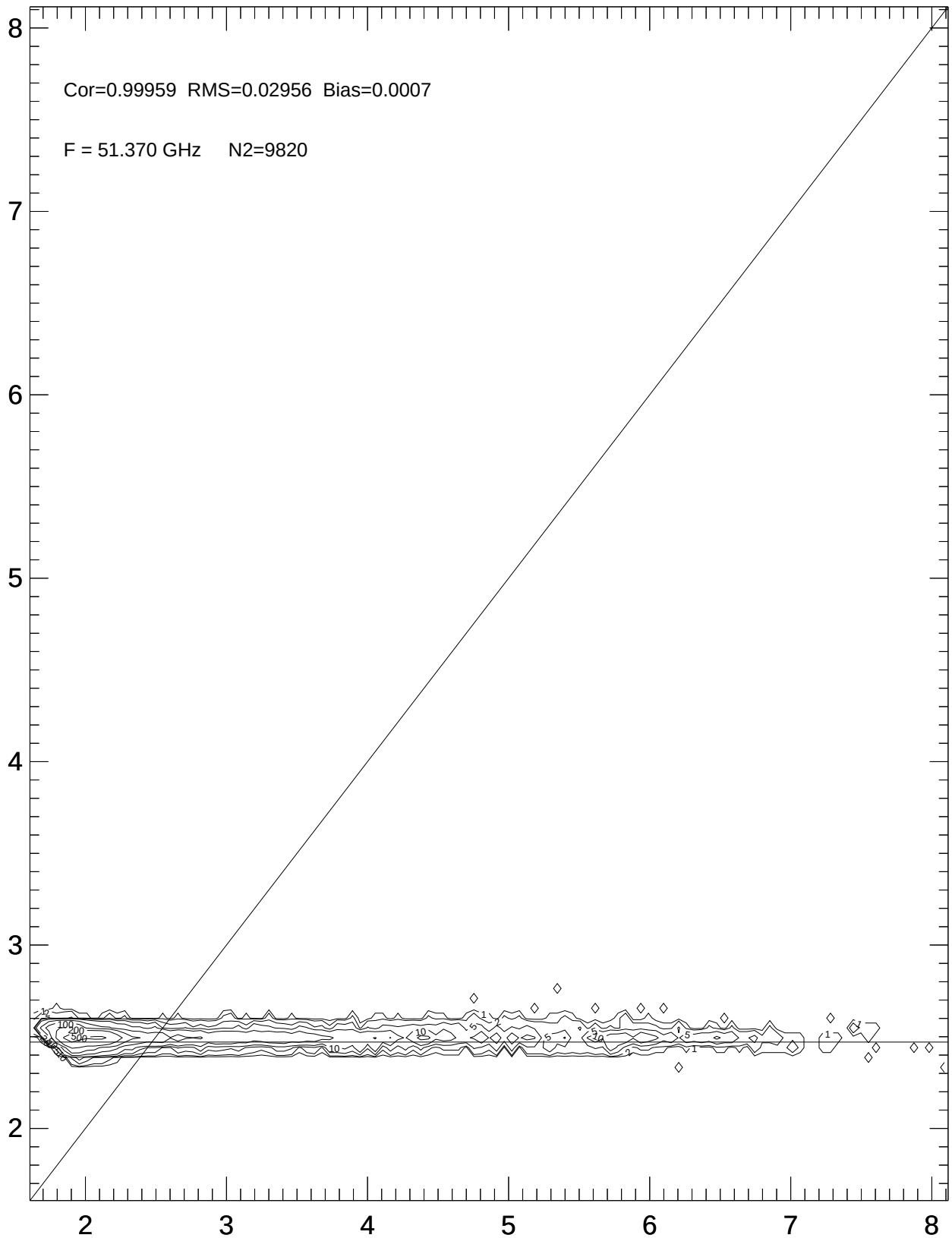

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
2
3
4
5
6
7
8

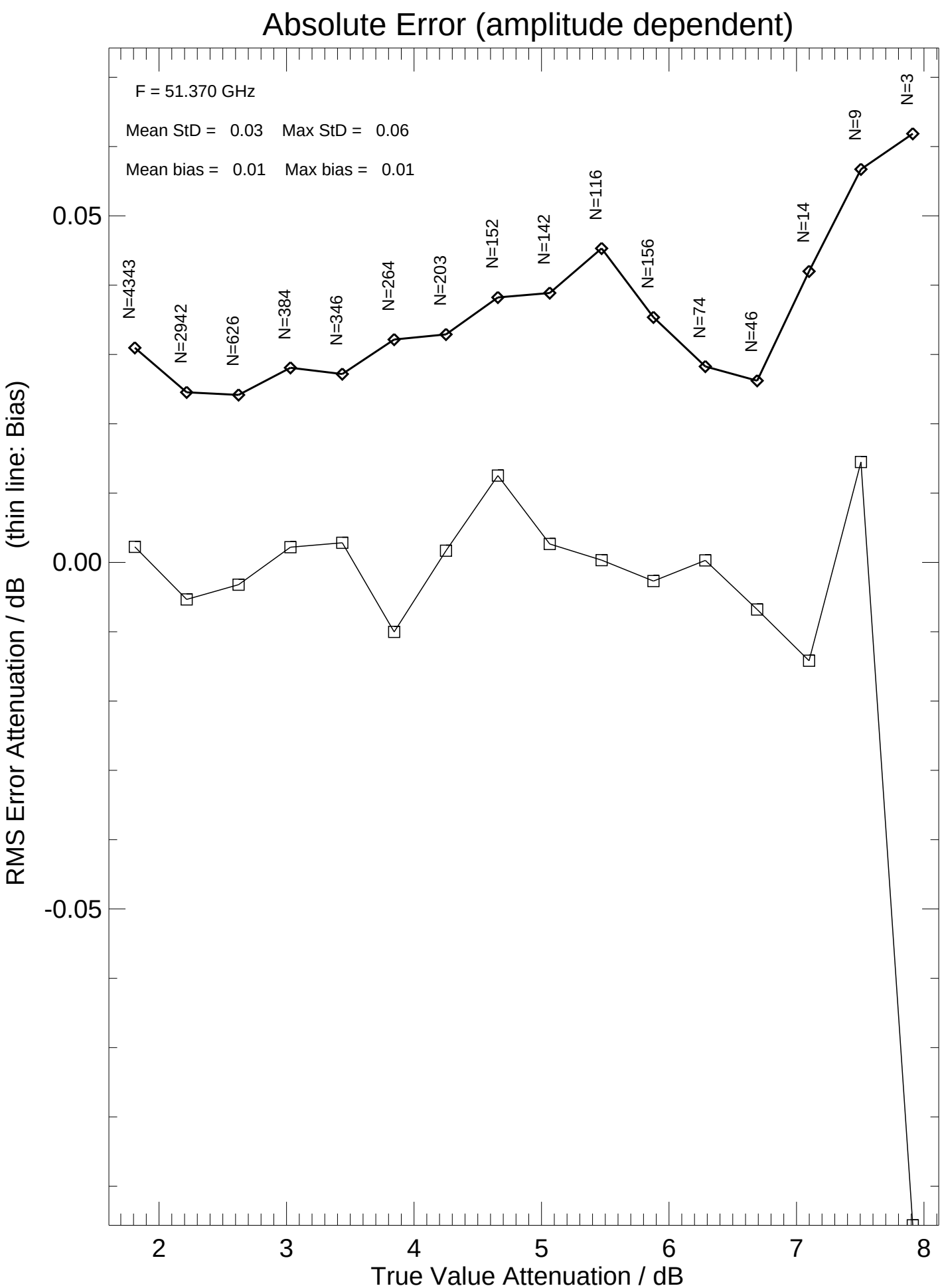

Cor=0.99960 RMS=0.02920 Bias=0.0007
F = 51.260 GHz N2=9820
8
7
6
5
4
3
2
2
3
4
5
6
7
8

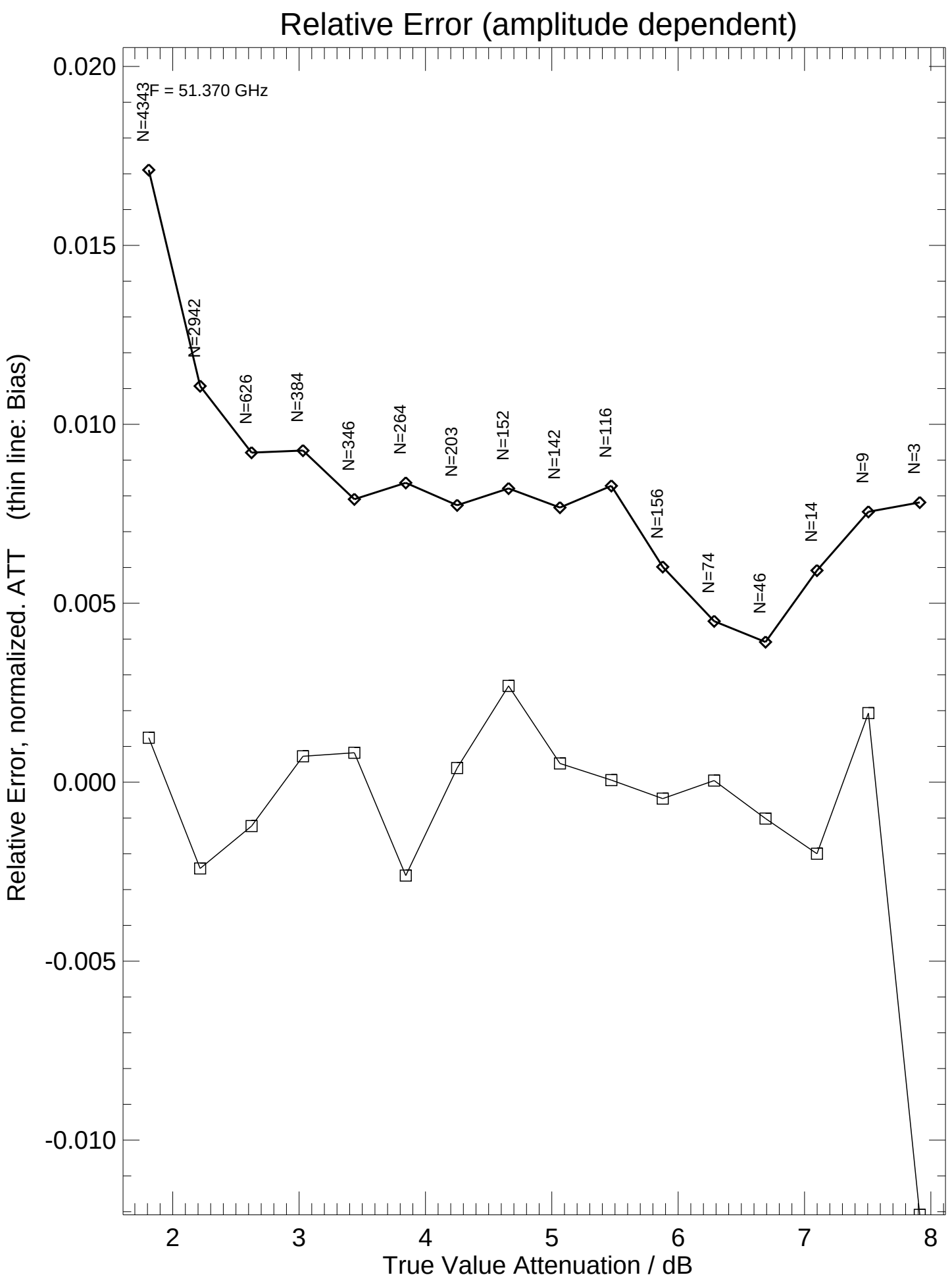

Absolute Error (amplitude dependent)
F = 51.260 GHz
Mean StD = 0.03 Max StD = 0.06
Mean bias = 0.01 Max bias = 0.01
N=4388
N=2901
N=624
N=388
N=340
N=264
N=203
N=153
N=141
N=116
N=156
N=74
N=46
N=14
N=9
N=3
0.05
0.00
-0.05
RMS Error Attenuation / dB (thin line: Bias)
2
3
4
5
6
7
8
True Value Attenuation / dB

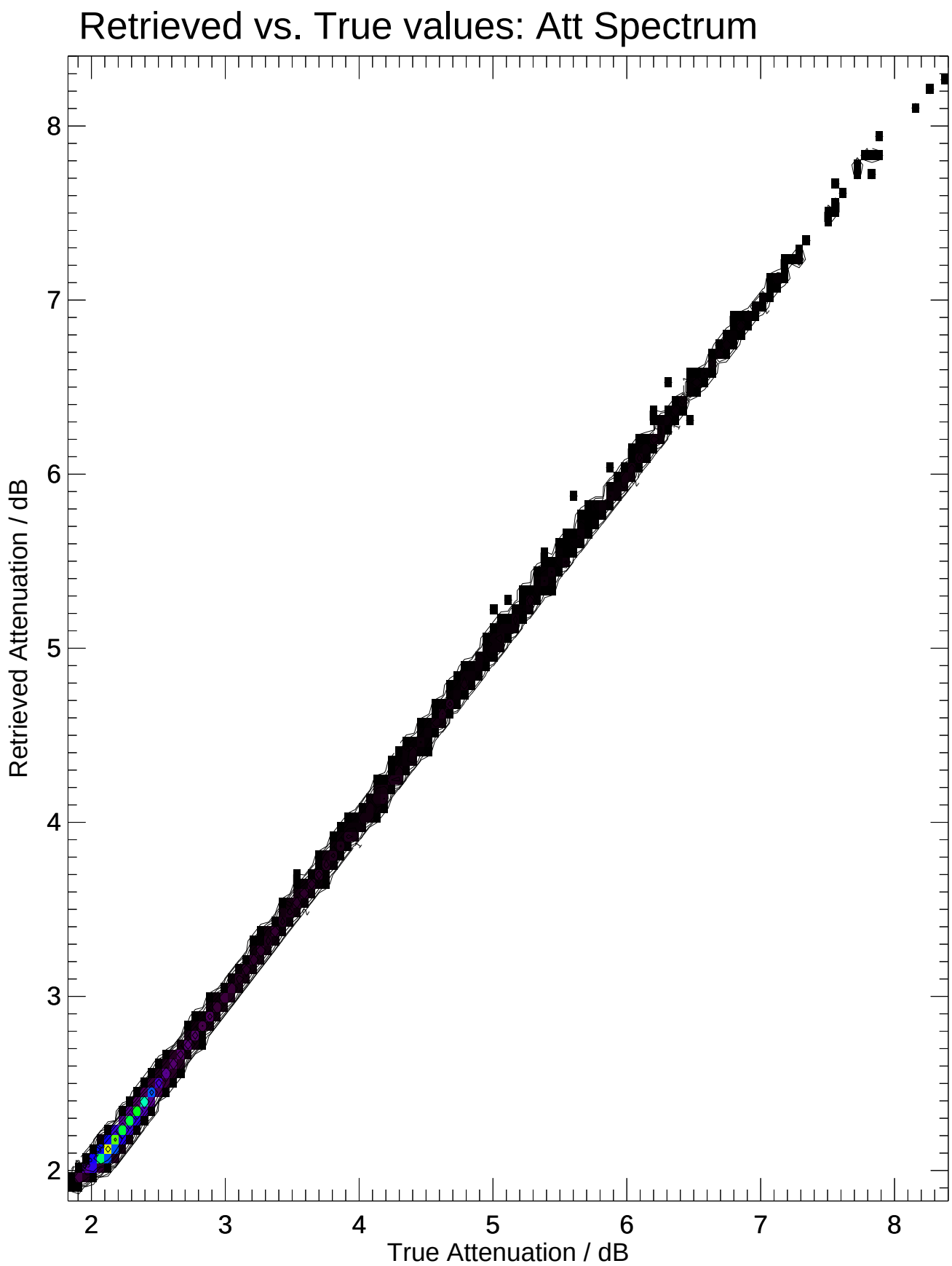

Relative Error (amplitude dependent)
F = 51.260 GHz
N=4388
N=2901
N=624
N=388
N=340
N=264
N=203
N=153
N=141
N=116
N=156
N=74
N=46
N=14
N=9
N=3
0.020
0.015
0.010
0.005
0.000
-0.005
-0.010
Relative Error, normalized. ATT (thin line: Bias)
2
3
4
5
6
7
8
True Value Attenuation / dB

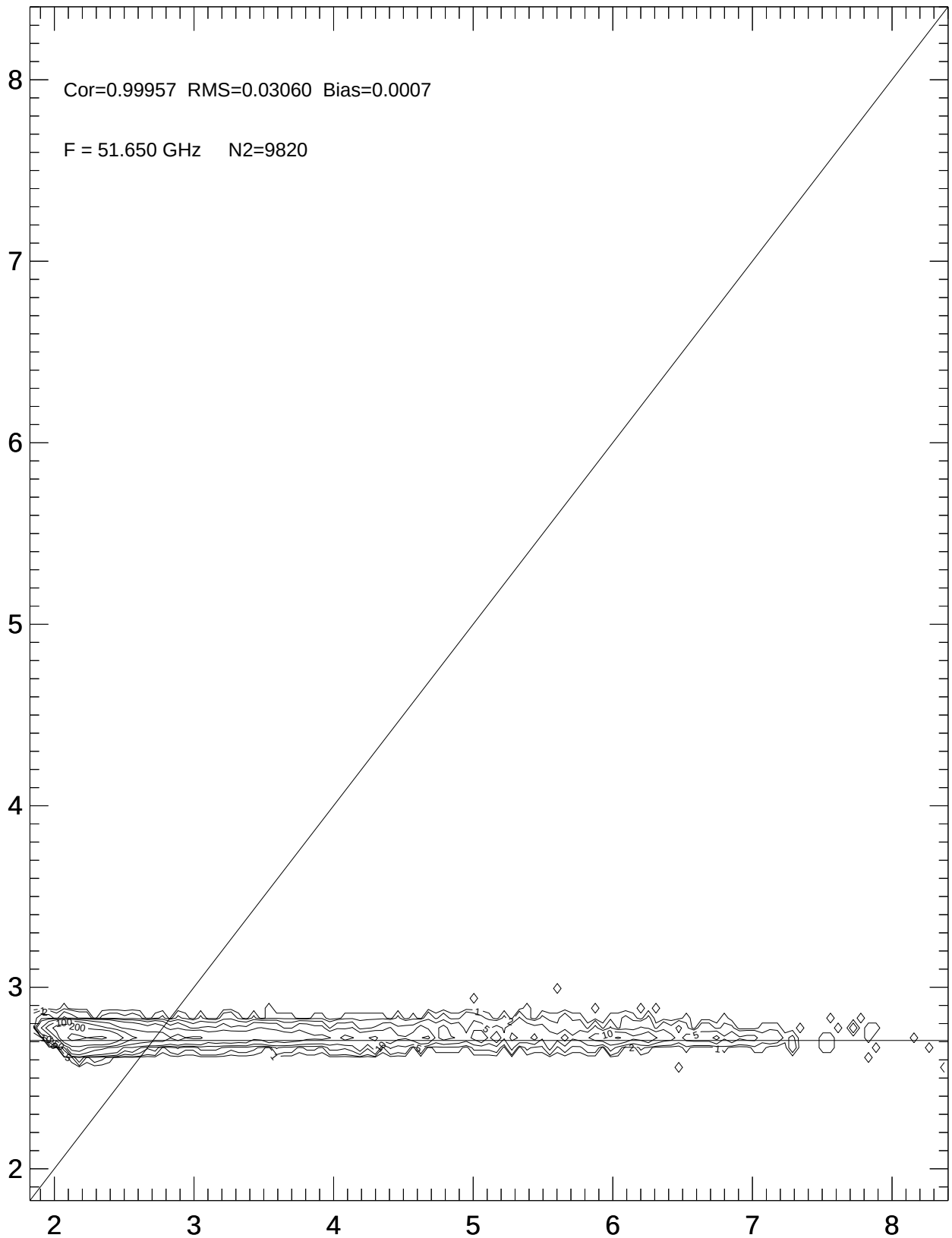

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
2
3
4
5
6
7
8

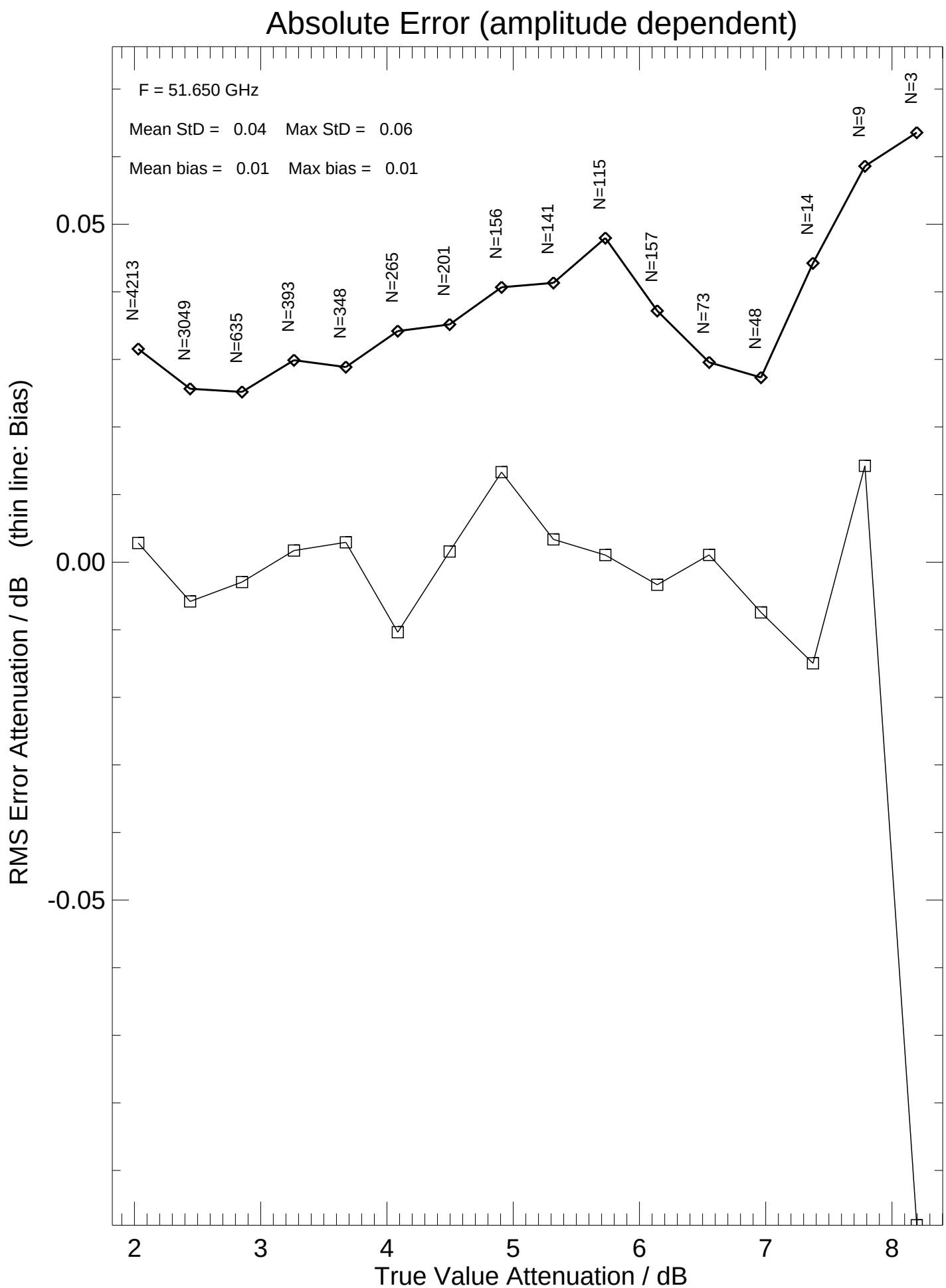

Cor=0.99959 RMS=0.02956 Bias=0.0007
F = 51.370 GHz N2=9820
8
7
6
5
4
3
2
2
3
4
5
6
7
8

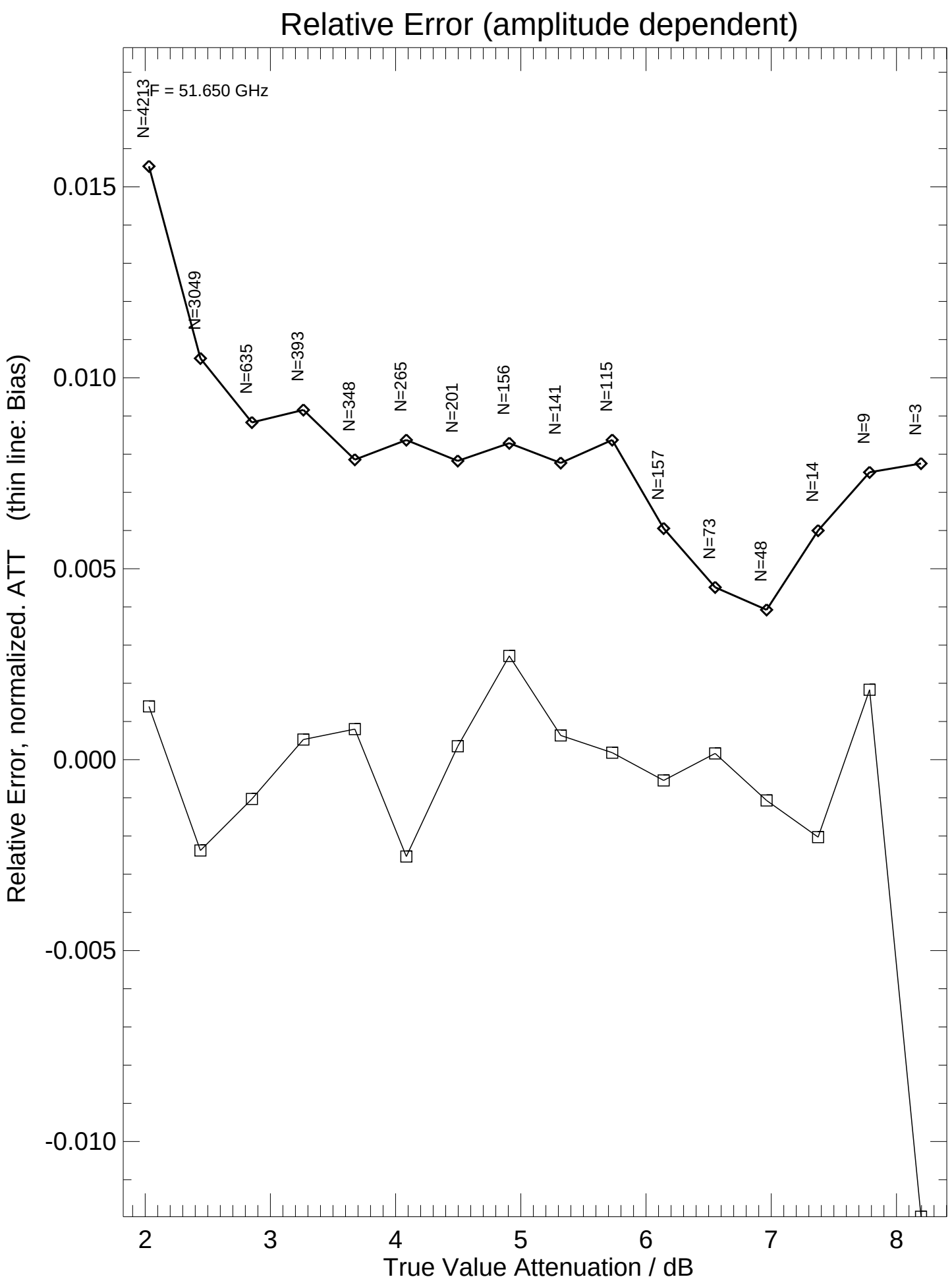

Absolute Error (amplitude dependent)
F = 51.370 GHz
Mean StD = 0.03 Max StD = 0.06
Mean bias = 0.01 Max bias = 0.01
N=4343
N=2942
N=626
N=384
N=346
N=264
N=203
N=152
N=142
N=116
N=156
N=74
N=46
N=14
N=9
N=3
0.05
0.00
-0.05
RMS Error Attenuation / dB (thin line: Bias)
2
3
4
5
6
7
8
True Value Attenuation / dB

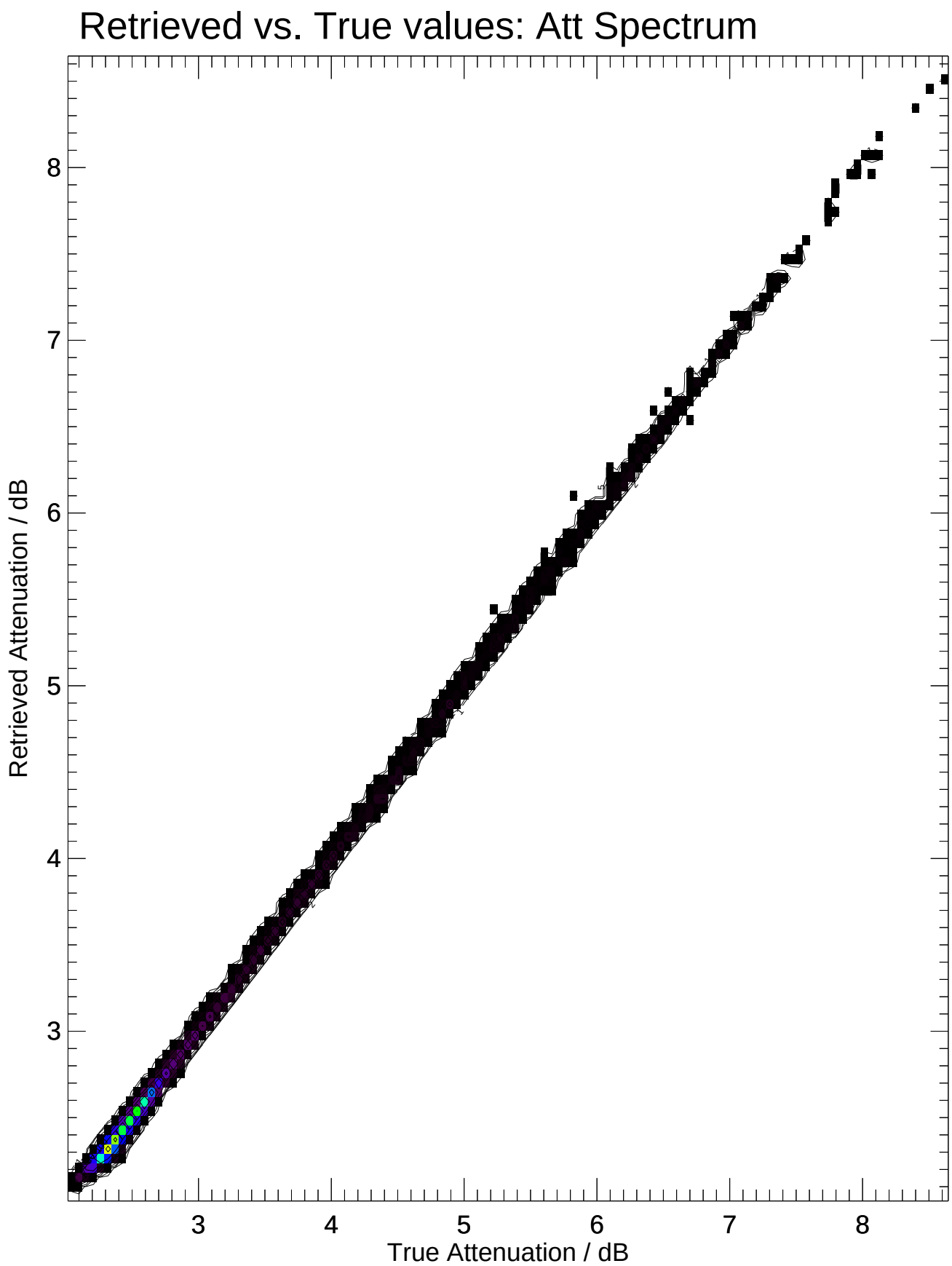

Relative Error (amplitude dependent)
F = 51.370 GHz
N=4343
N=2942
N=626
N=384
N=346
N=264
N=203
N=152
N=142
N=116
N=156
N=74
N=46
N=14
N=9
N=3
0.020
0.015
0.010
0.005
0.000
-0.005
-0.010
Relative Error, normalized. ATT (thin line: Bias)
2
3
4
5
6
7
8
True Value Attenuation / dB

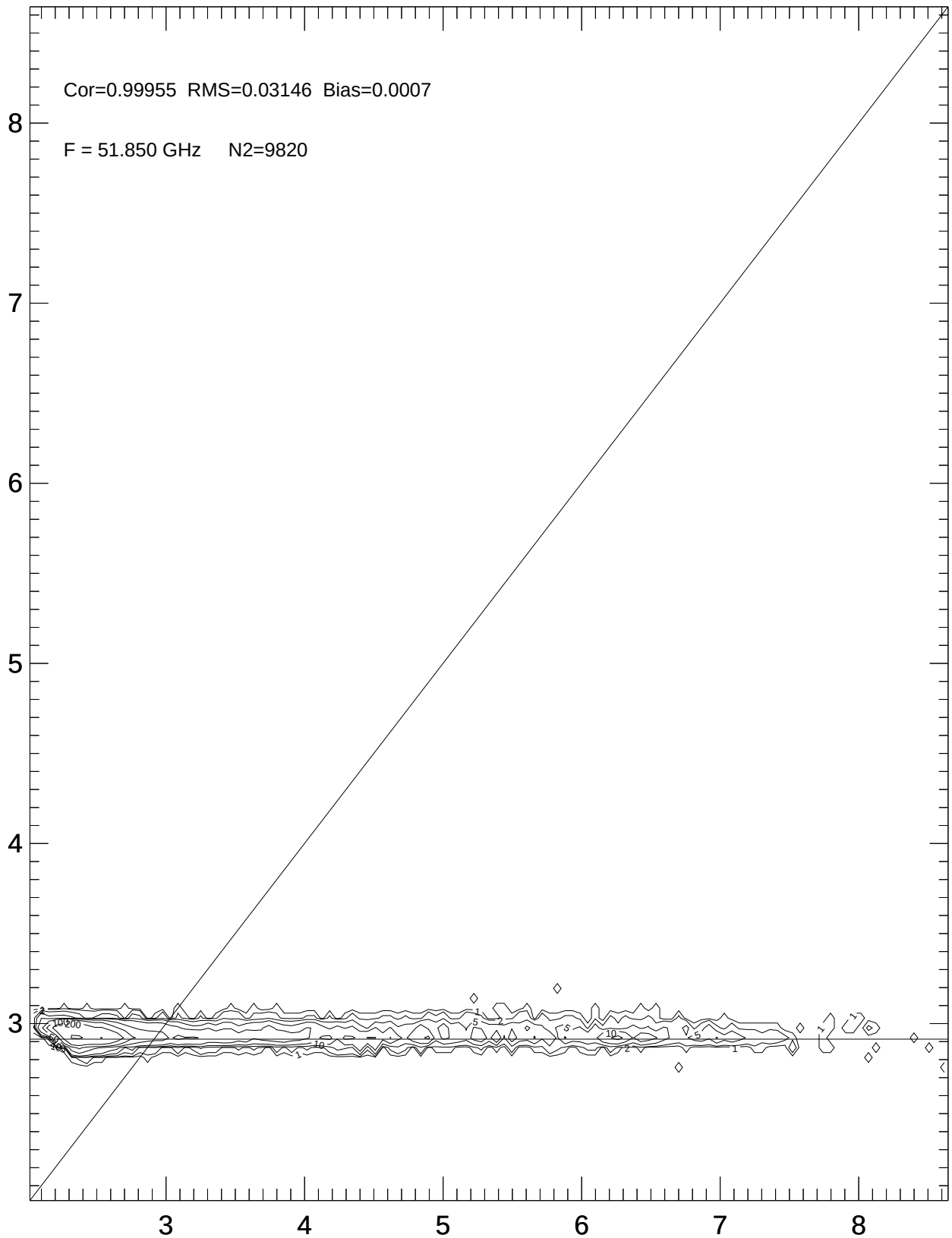

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
2
3
4
5
6
7
8

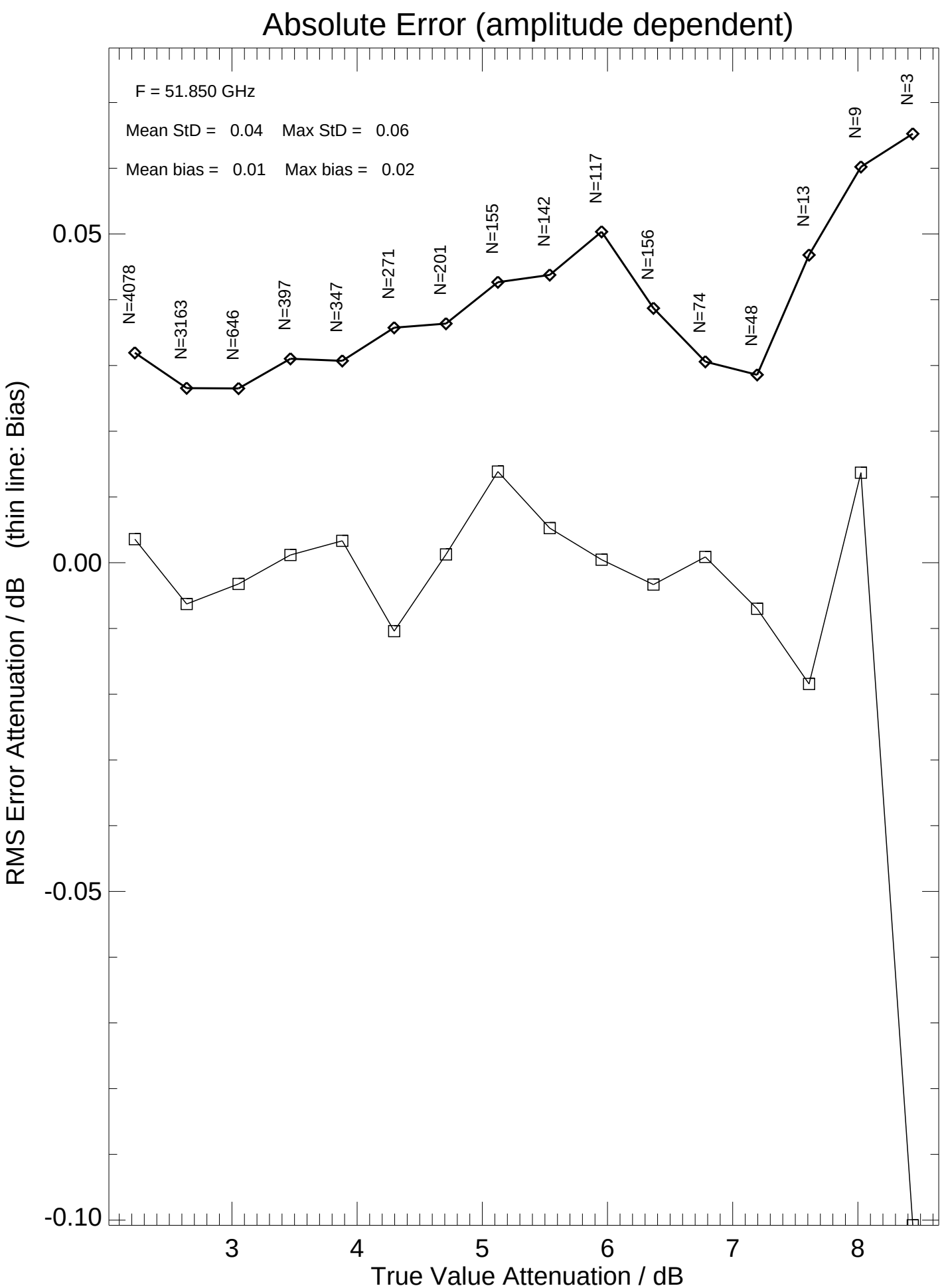

Cor=0.99957 RMS=0.03060 Bias=0.0007
F = 51.650 GHz N2=9820
8
7
6
5
4
3
2
2
3
4
5
6
7
8

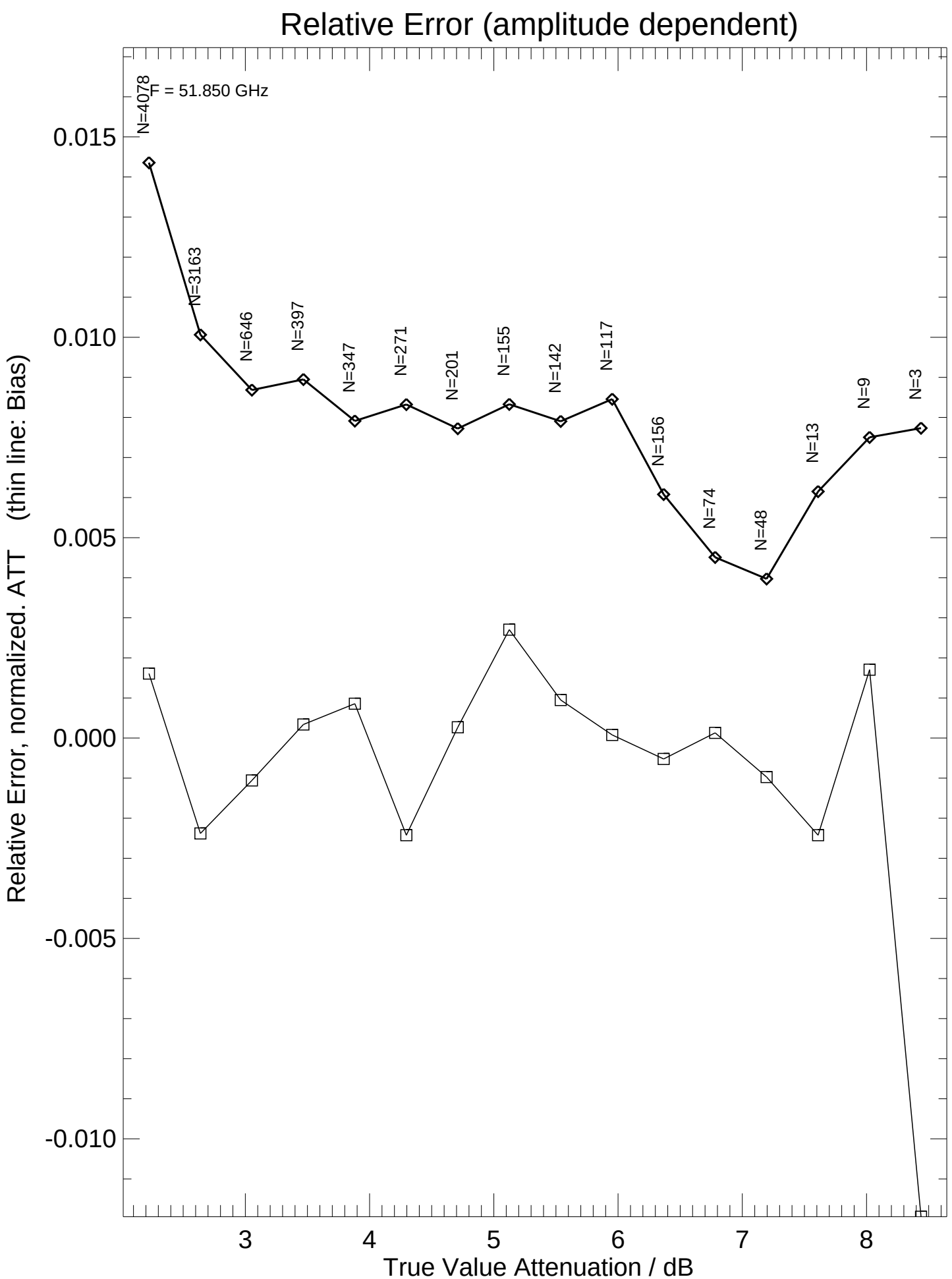

Absolute Error (amplitude dependent)
F = 51.650 GHz
Mean StD = 0.04 Max StD = 0.06
Mean bias = 0.01 Max bias = 0.01
N=4213
N=3049
N=635
N=393
N=348
N=265
N=201
N=156
N=141
N=115
N=157
N=73
N=48
N=14
N=9
N=3
0.05
0.00
-0.05
RMS Error Attenuation / dB (thin line: Bias)
2
3
4
5
6
7
8
True Value Attenuation / dB

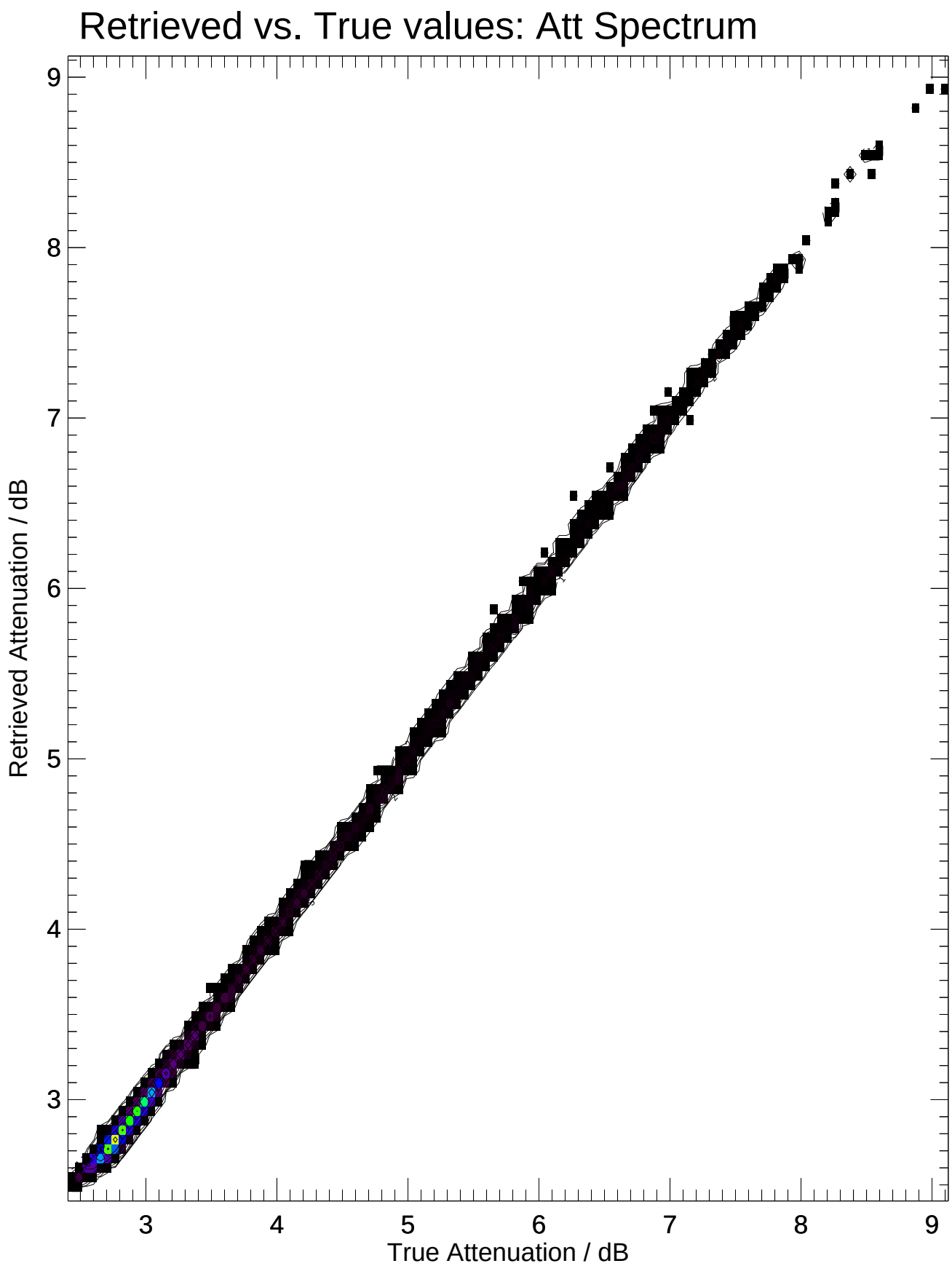

Relative Error (amplitude dependent)
F = 51.650 GHz
N=4213
N=3049
N=635
N=393
N=348
N=265
N=201
N=156
N=141
N=115
N=157
N=73
N=48
N=14
N=9
N=3
0.015
0.010
0.005
0.000
-0.005
-0.010
Relative Error, normalized. ATT (thin line: Bias)
2
3
4
5
6
7
8
True Value Attenuation / dB

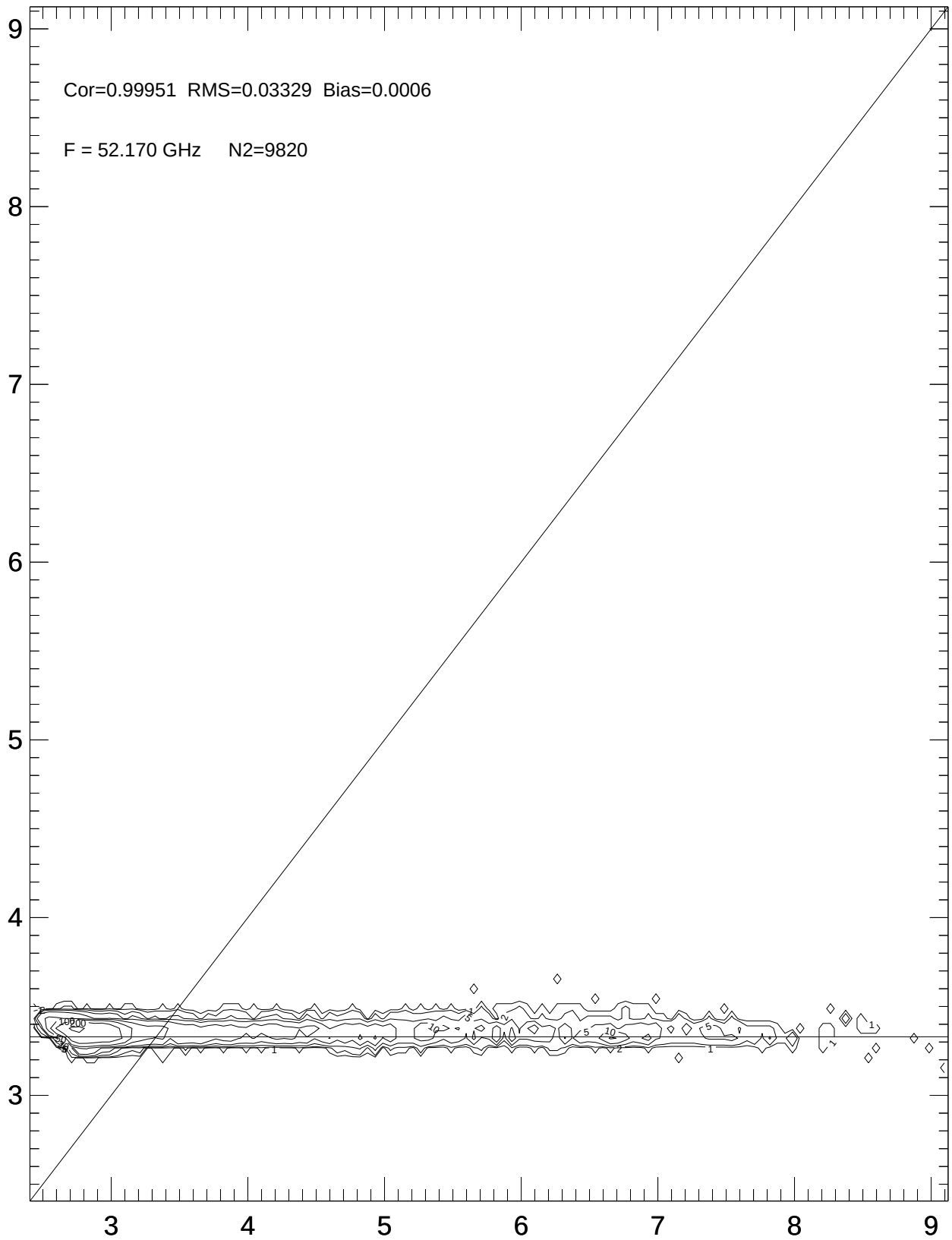

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
3
4
5
6
7
8

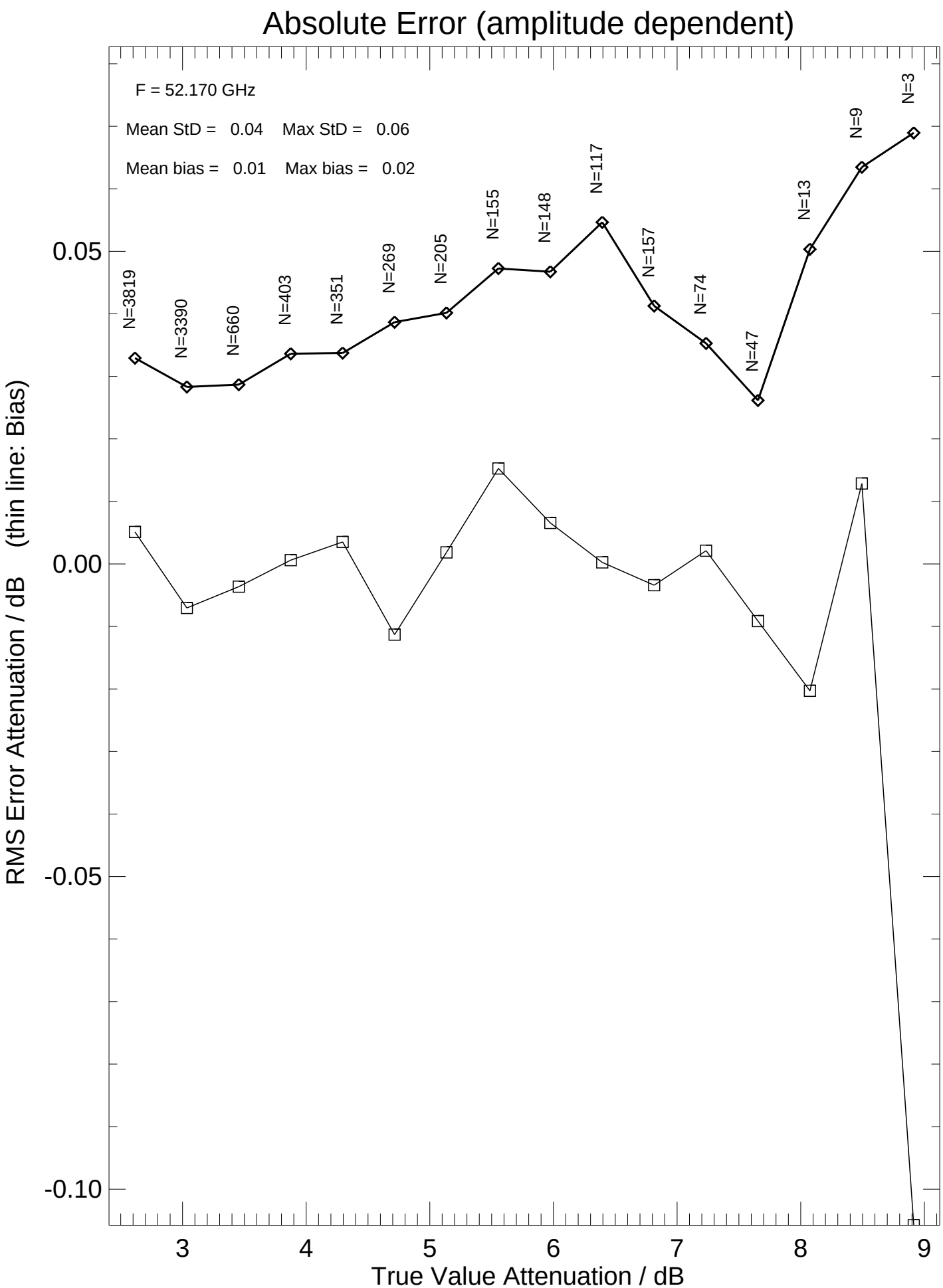

Cor=0.99955 RMS=0.03146 Bias=0.0007
F = 51.850 GHz N2=9820
8
7
6
5
4
3
3
4
5
6
7
8

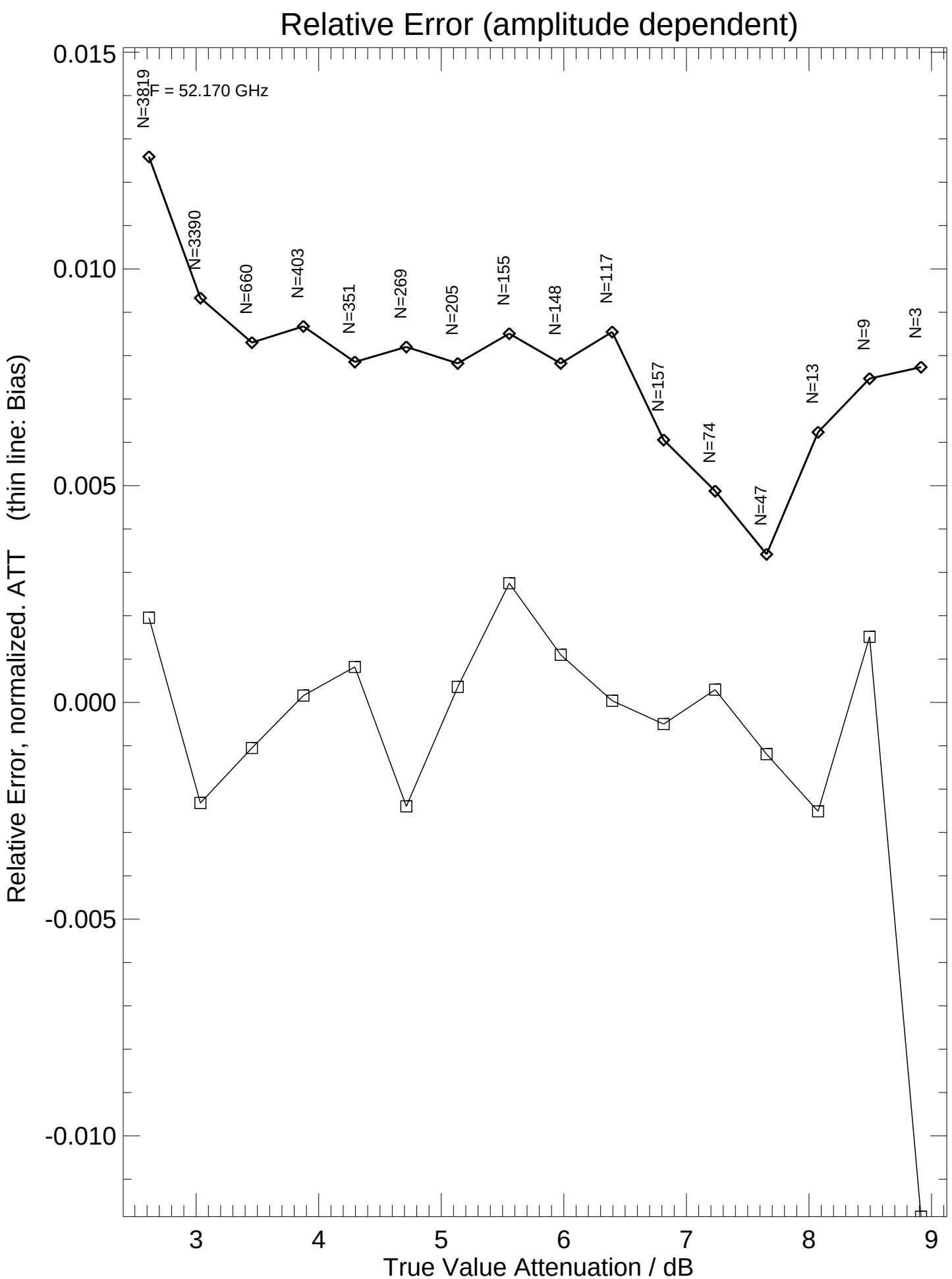

Absolute Error (amplitude dependent)
F = 51.850 GHz
Mean StD = 0.04 Max StD = 0.06
Mean bias = 0.01 Max bias = 0.02
N=4078
N=3163
N=646
N=397
N=347
N=271
N=201
N=155
N=142
N=117
N=156
N=74
N=48
N=13
N=9
N=3
0.05
0.00
-0.05
-0.10
RMS Error Attenuation / dB (thin line: Bias)
3
4
5
6
7
8
True Value Attenuation / dB

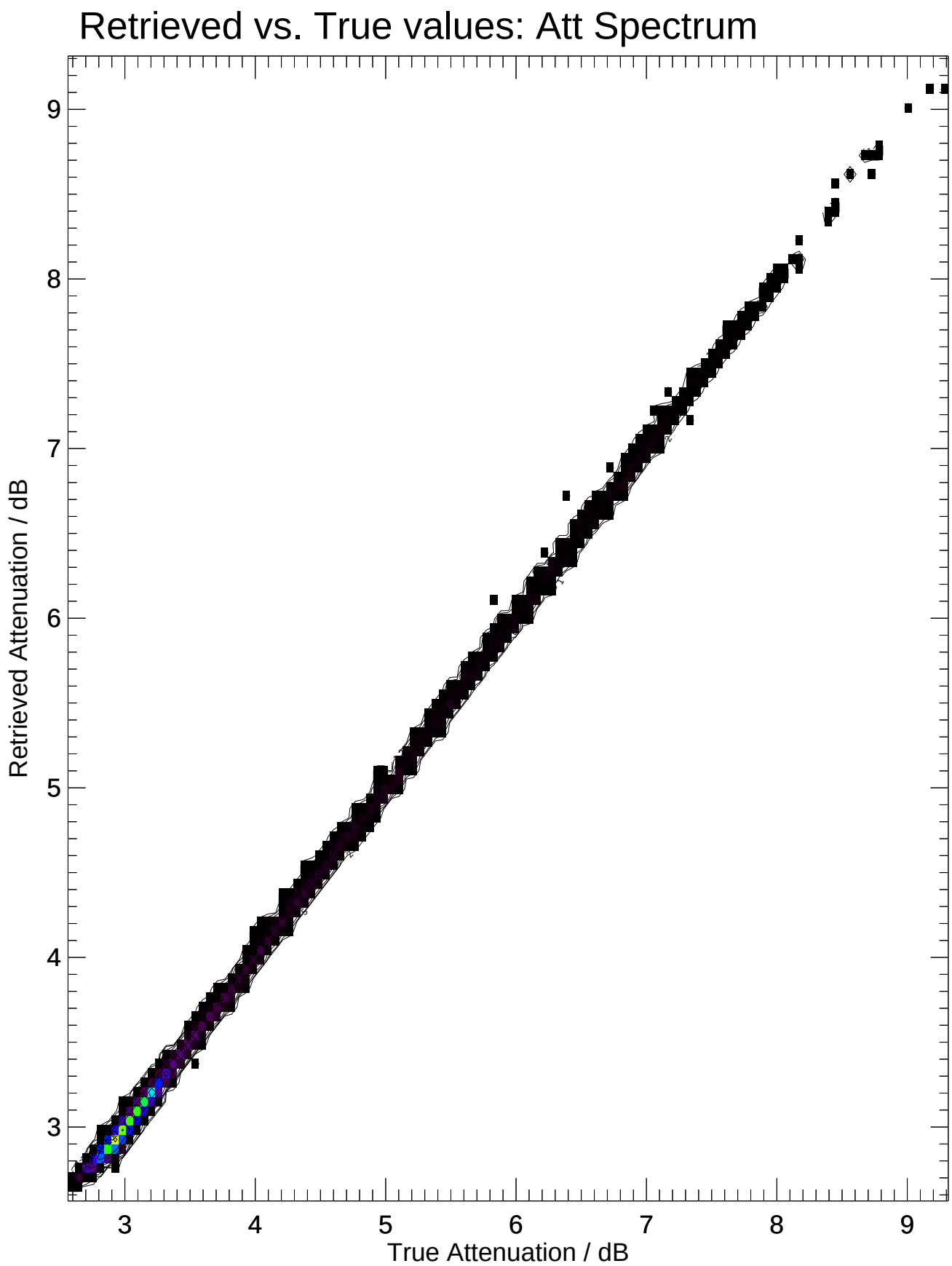

Relative Error (amplitude dependent)
F = 51.850 GHz
N=4078
N=3163
N=646
N=397
N=347
N=271
N=201
N=155
N=142
N=117
N=156
N=74
N=48
N=13
N=9
N=3
0.015
0.010
0.005
0.000
-0.005
-0.010
Relative Error, normalized. ATT (thin line: Bias)
3
4
5
6
7
8
True Value Attenuation / dB

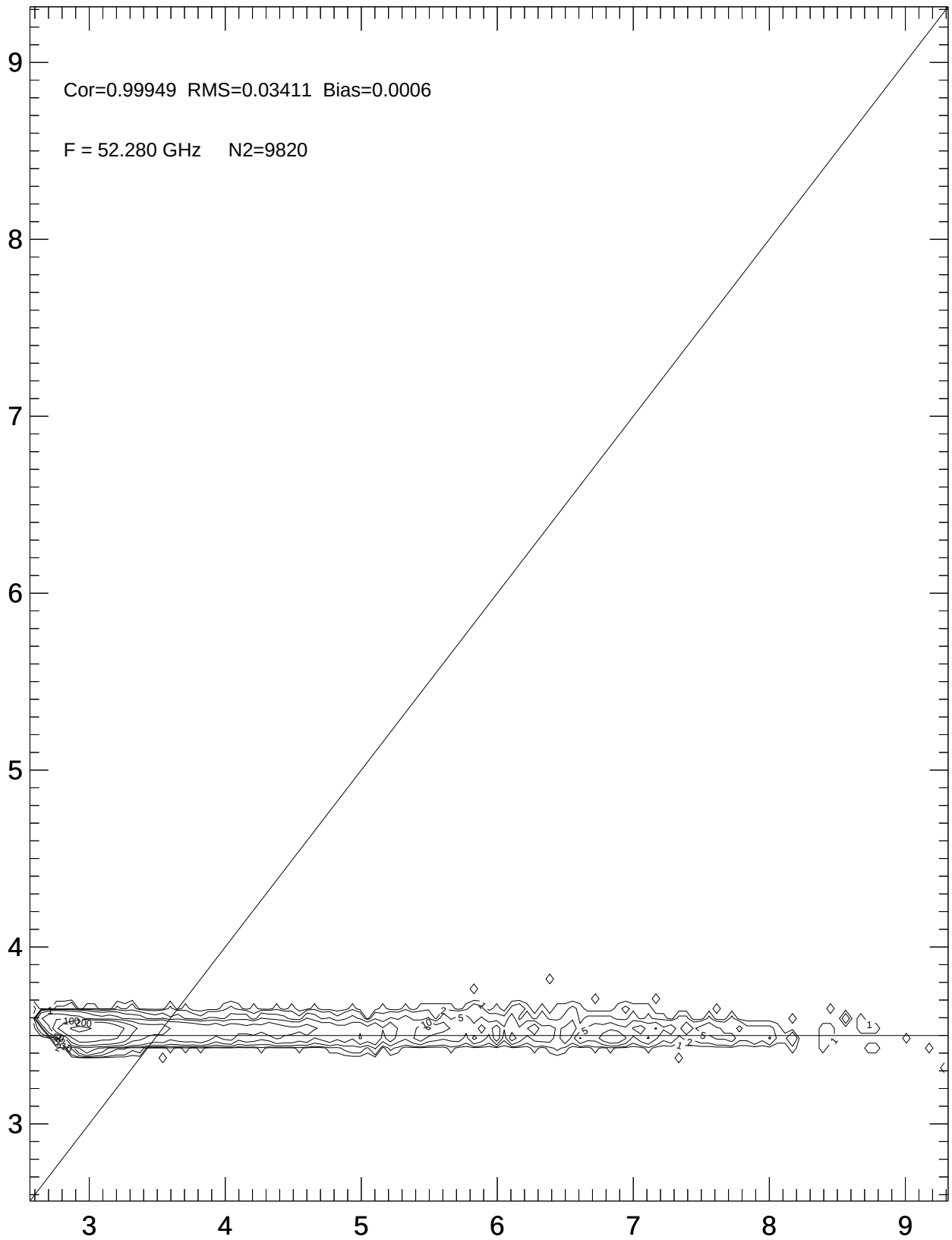

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
3
4
5
6
7
8
9

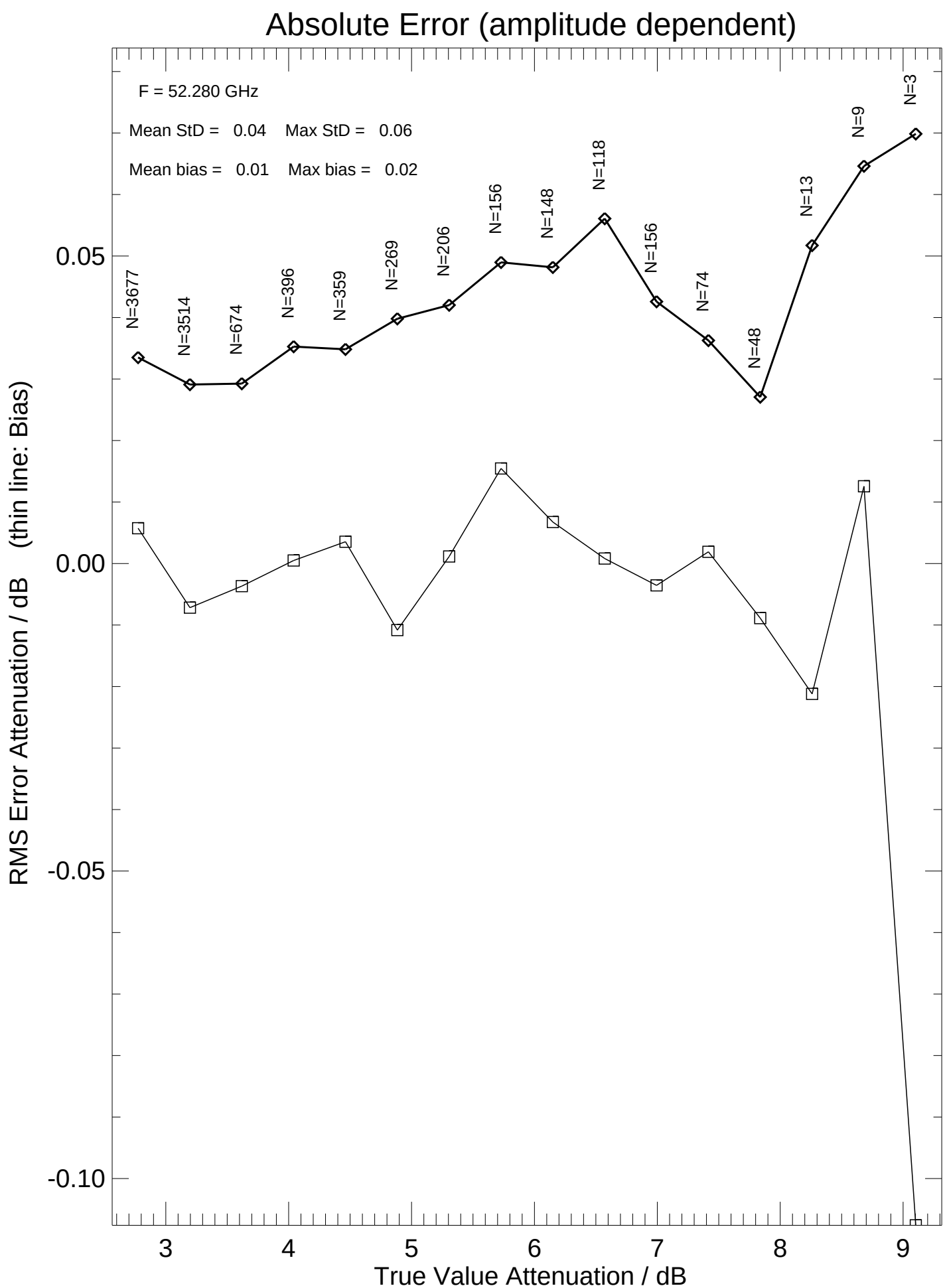

Cor=0.99951 RMS=0.03329 Bias=0.0006
F = 52.170 GHz N2=9820
9
8
7
6
5
4
3
3
4
5
6
7
8
9

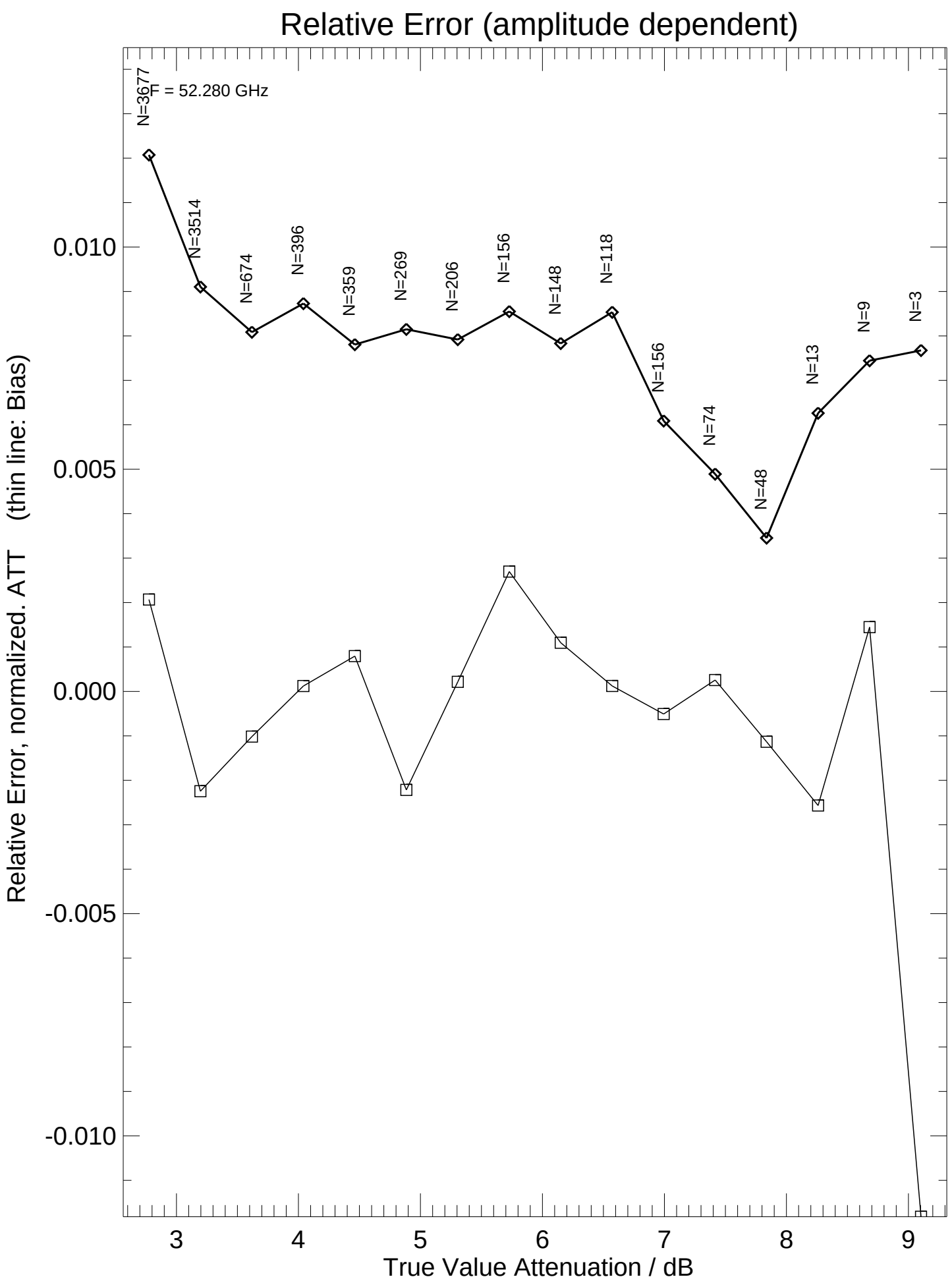

Absolute Error (amplitude dependent)
F = 52.170 GHz
Mean StD = 0.04 Max StD = 0.06
Mean bias = 0.01 Max bias = 0.02
N=3819
N=3390
N=660
N=403
N=351
N=269
N=205
N=155
N=148
N=117
N=157
N=74
N=47
N=13
N=9
N=3
0.05
0.00
-0.05
-0.10
RMS Error Attenuation / dB (thin line: Bias)
3
4
5
6
7
8
9
True Value Attenuation / dB

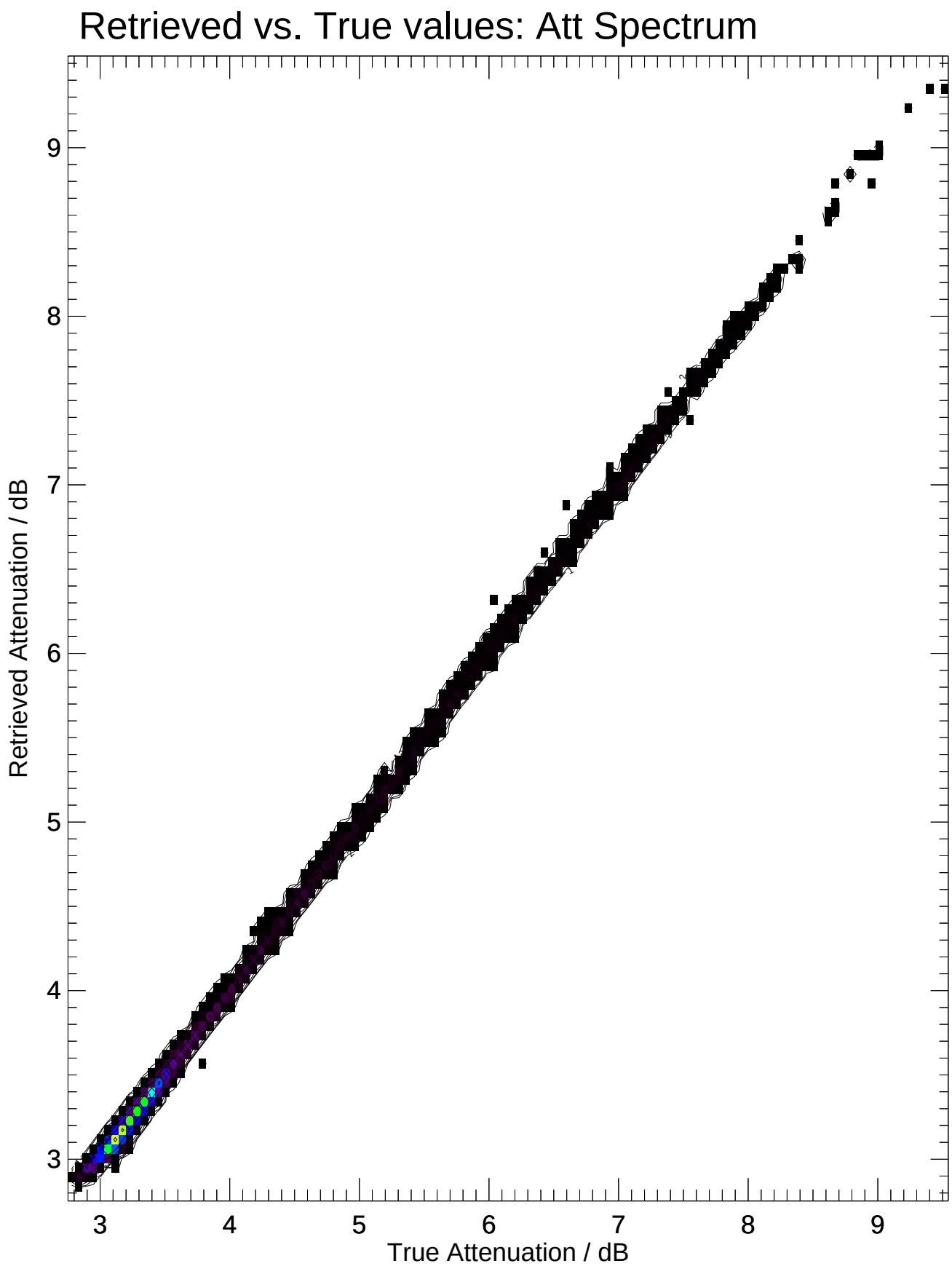

Relative Error (amplitude dependent)
F = 52.170 GHz
N=3819
N=3390
N=660
N=403
N=351
N=269
N=205
N=155
N=148
N=117
N=157
N=74
N=47
N=13
N=9
N=3
0.015
0.010
0.005
0.000
-0.005
-0.010
Relative Error, normalized. ATT (thin line: Bias)
3
4
5
6
7
8
9
True Value Attenuation / dB

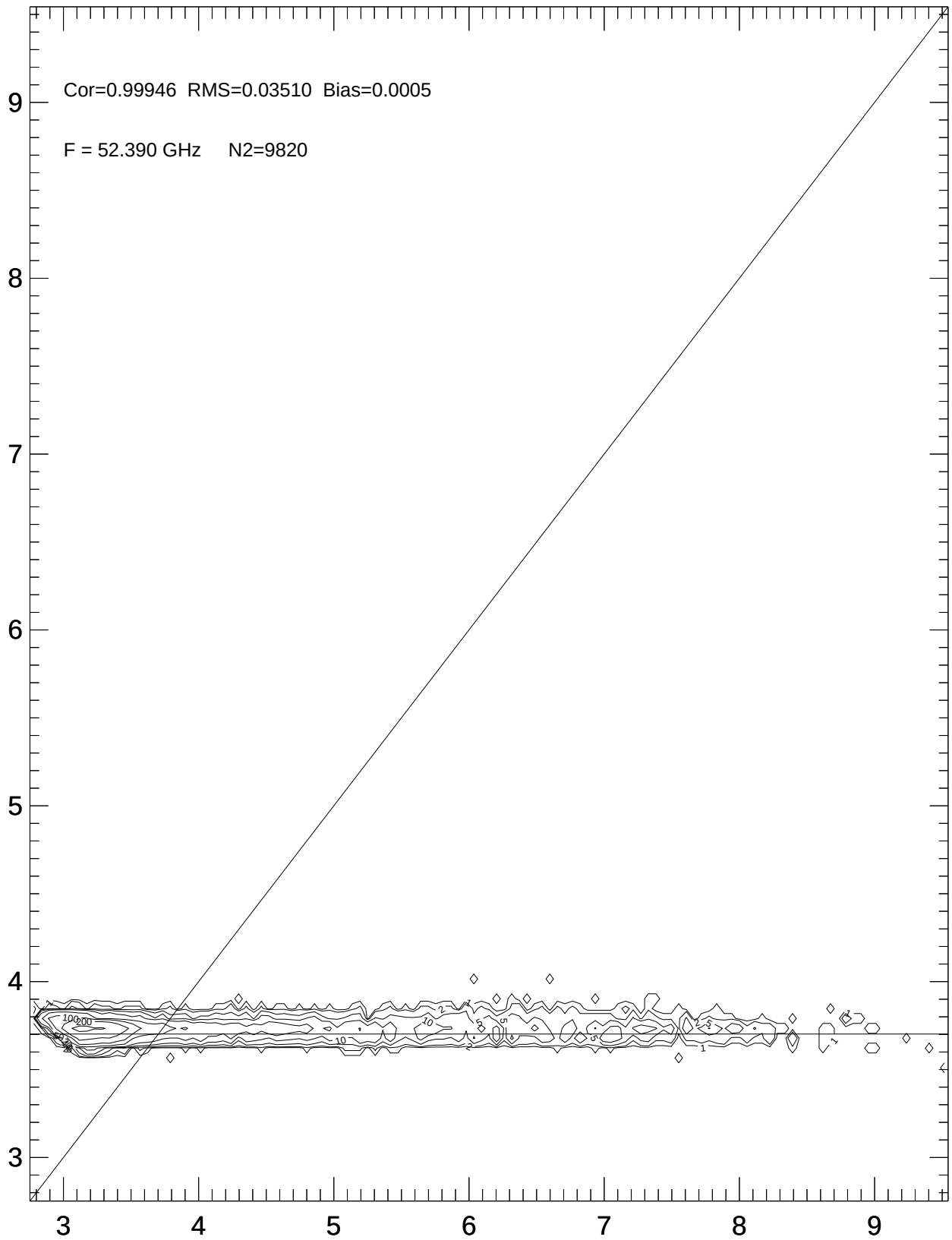

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
3
4
5
6
7
8
9

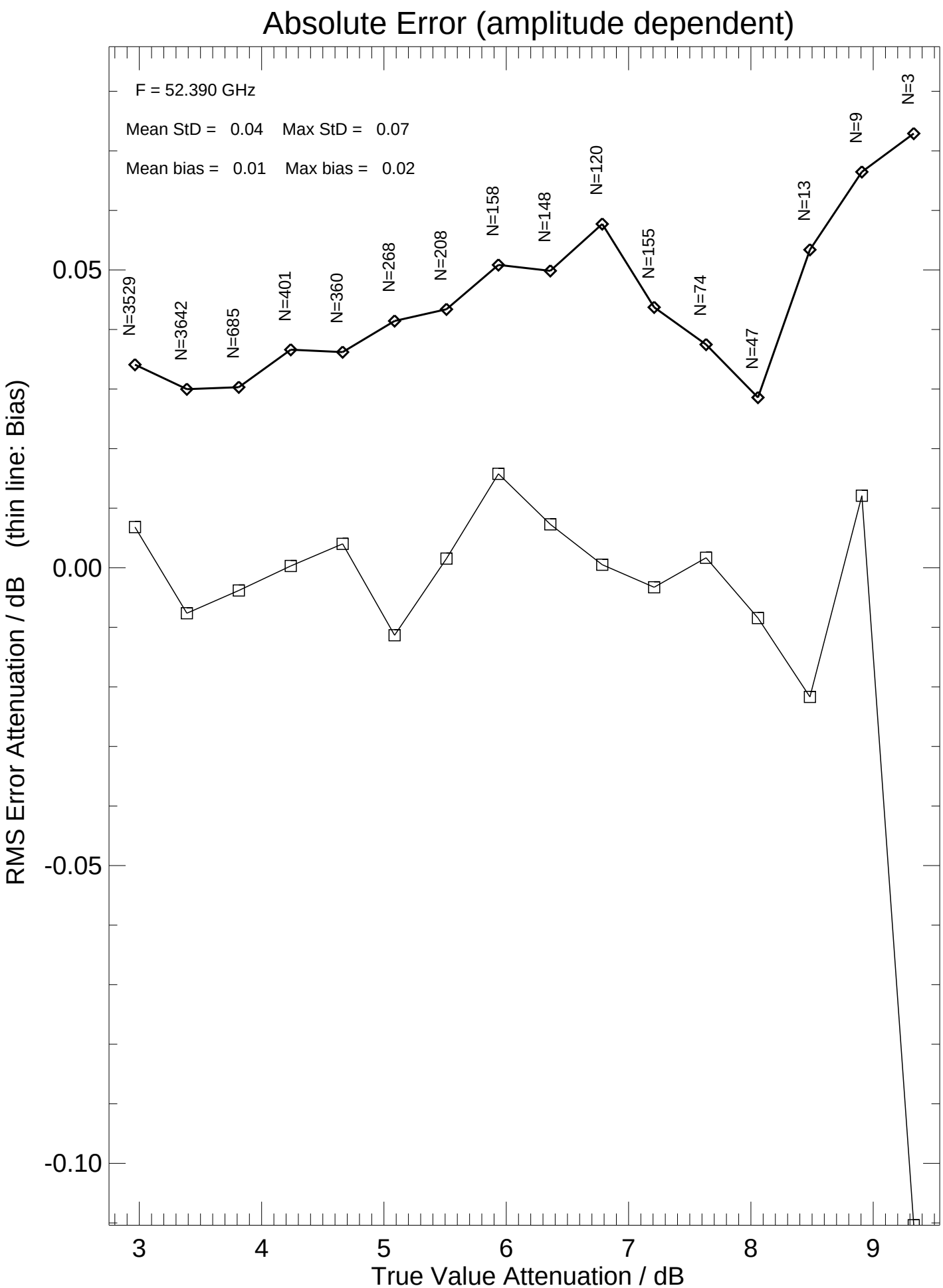

Cor=0.99949 RMS=0.03411 Bias=0.0006
F = 52.280 GHz N2=9820
9
8
7
6
5
4
3
3
4
5
6
7
8
9

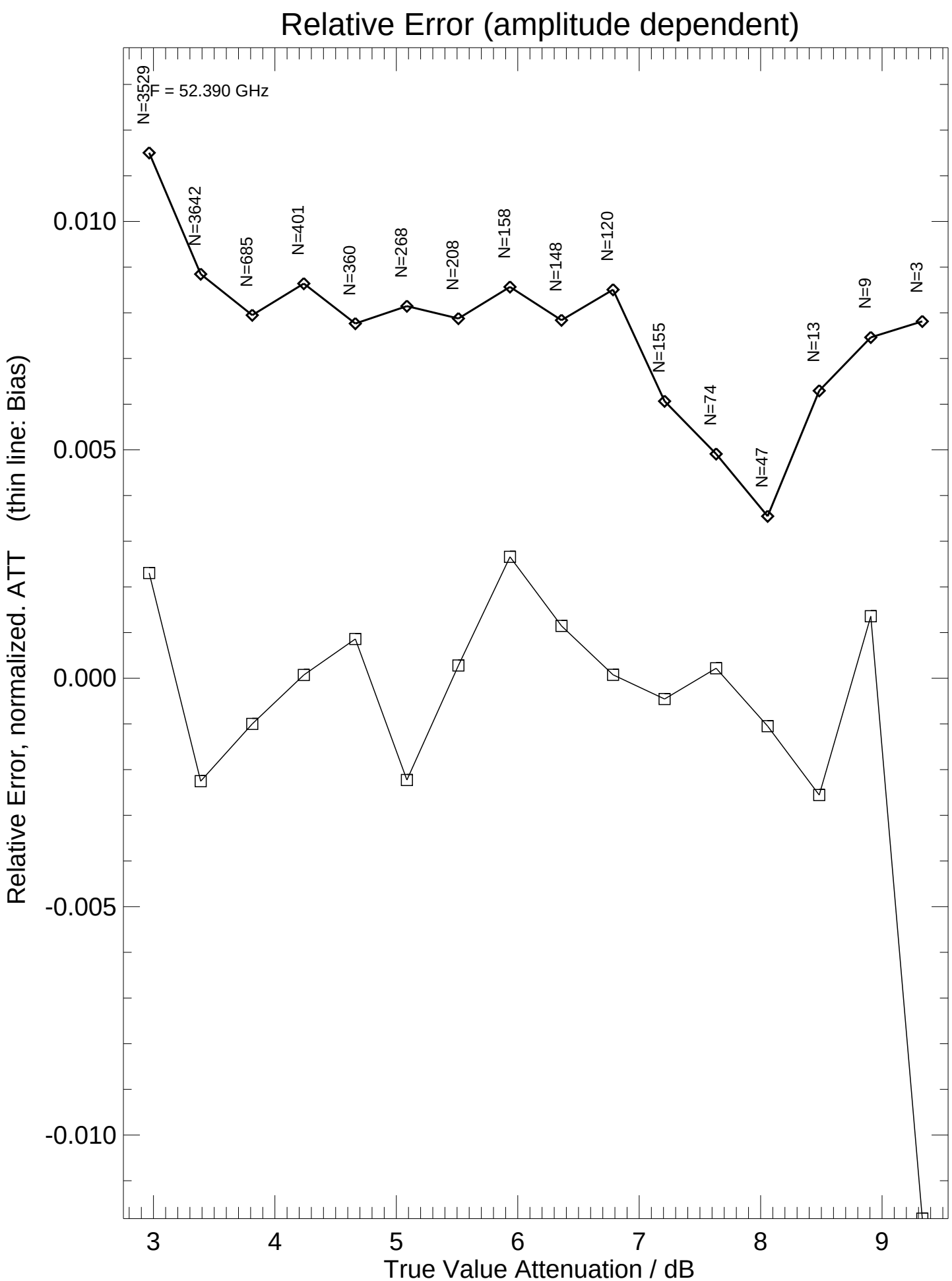

Absolute Error (amplitude dependent)
F = 52.280 GHz
Mean StD = 0.04 Max StD = 0.06
Mean bias = 0.01 Max bias = 0.02
N=3677
N=3514
N=674
N=396
N=359
N=269
N=206
N=156
N=148
N=118
N=156
N=74
N=48
N=13
N=9
N=3
0.05
0.00
-0.05
-0.10
RMS Error Attenuation / dB (thin line: Bias)
3
4
5
6
7
8
9
True Value Attenuation / dB

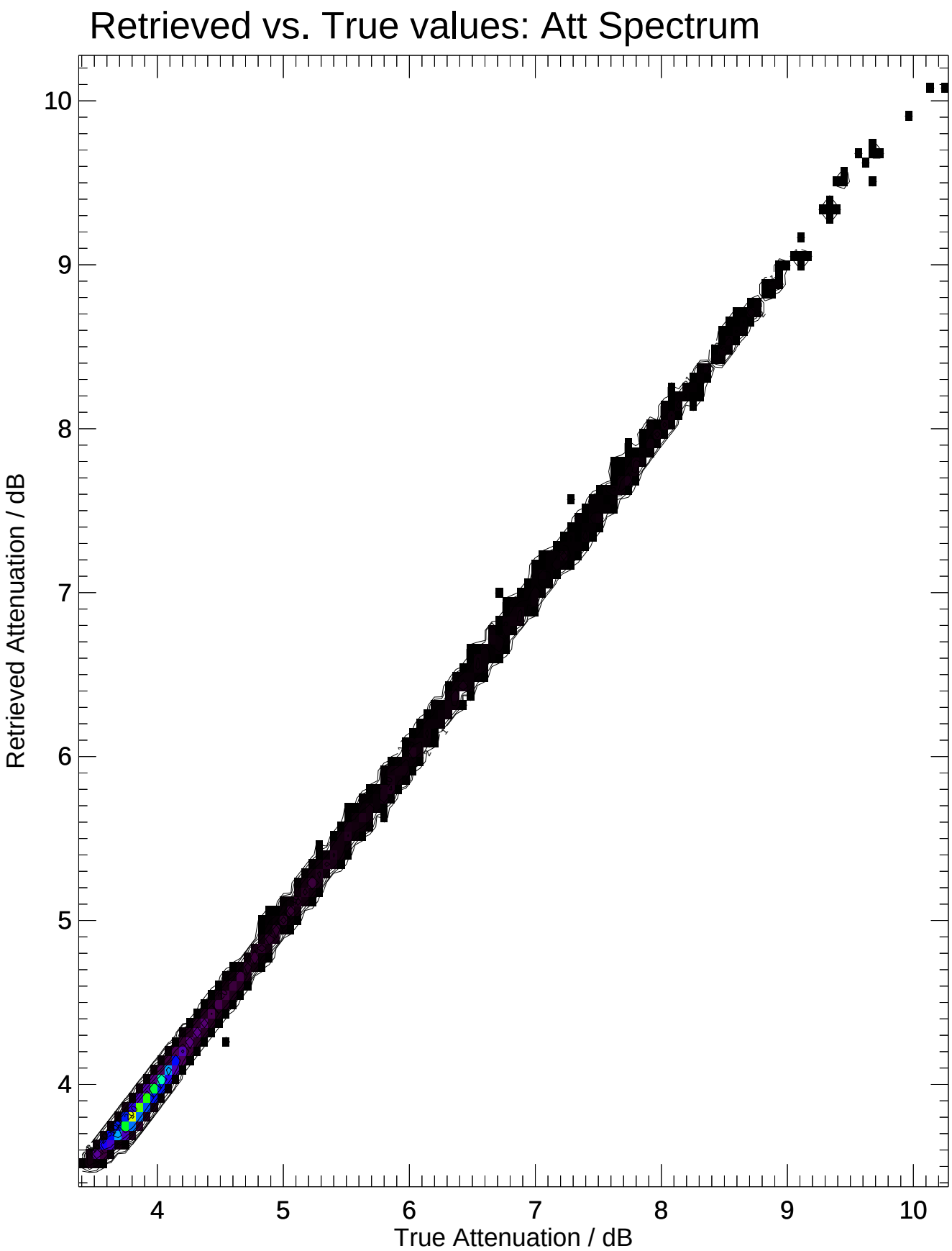

Relative Error (amplitude dependent)
F = 52.280 GHz
N=3677
N=3514
N=674
N=396
N=359
N=269
N=206
N=156
N=148
N=118
N=156
N=74
N=48
N=13
N=9
N=3
0.010
0.005
0.000
-0.005
-0.010
Relative Error, normalized. ATT (thin line: Bias)
3
4
5
6
7
8
9
True Value Attenuation / dB

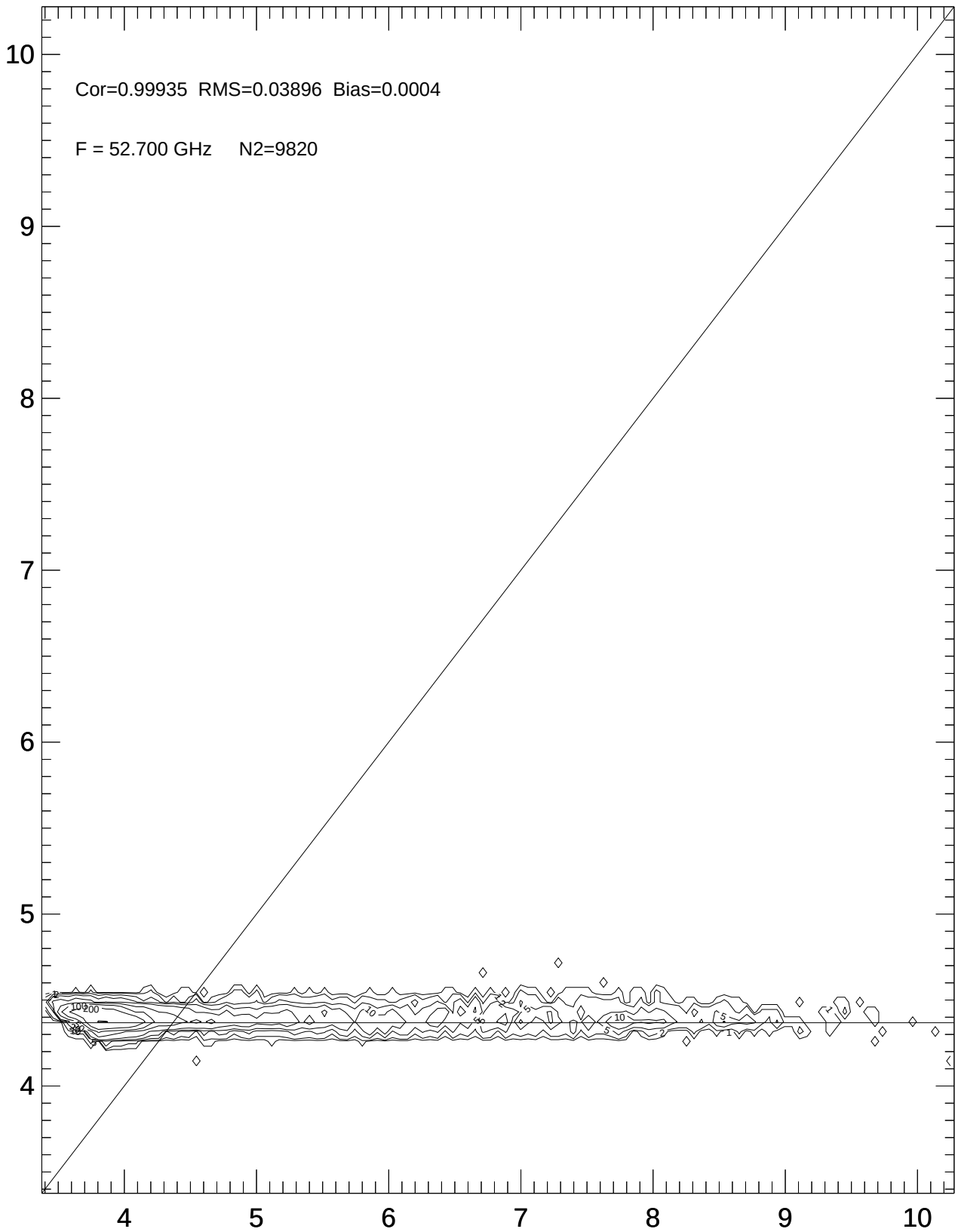

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
3
4
5
6
7
8
9

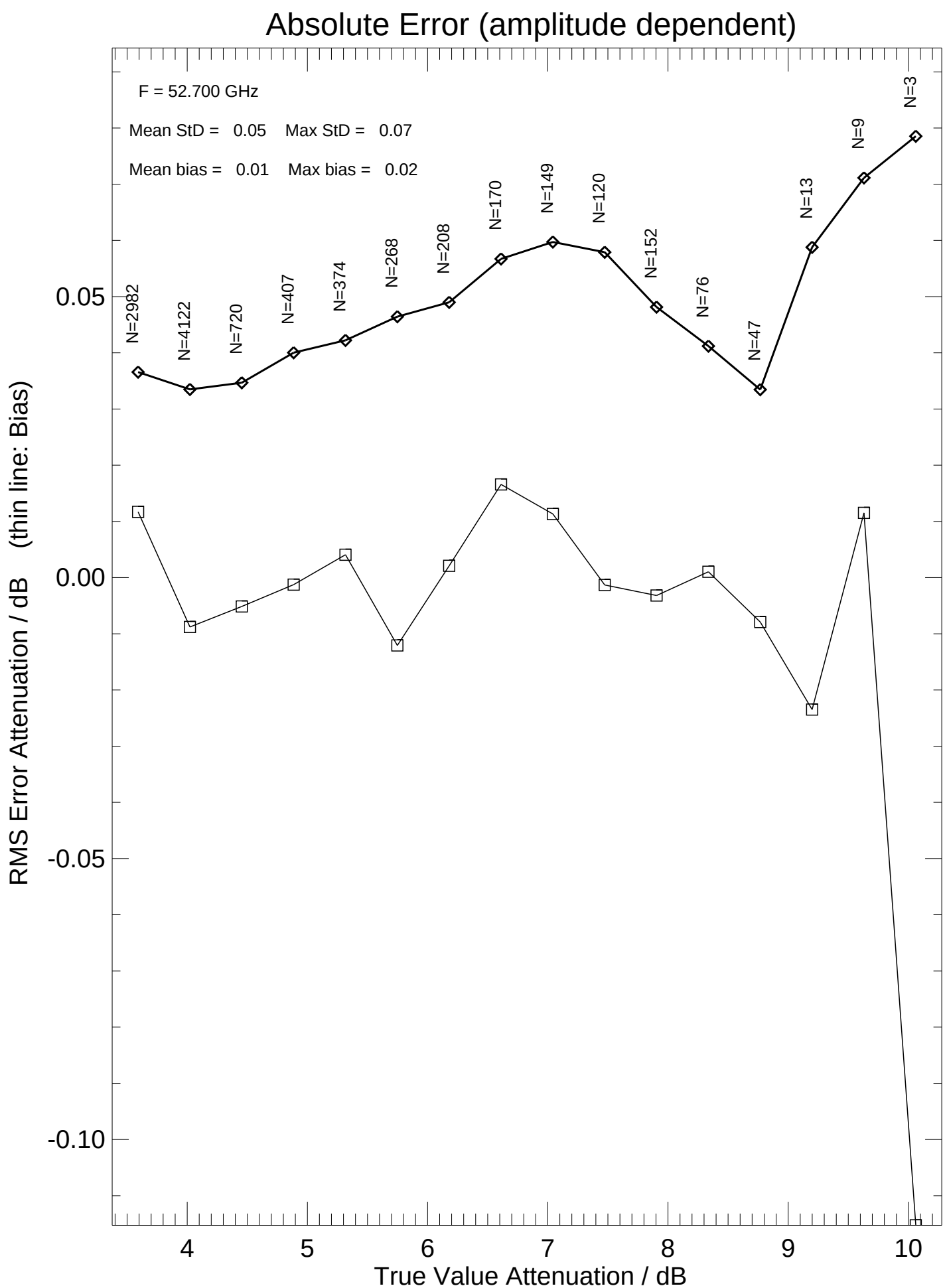

Cor=0.99946 RMS=0.03510 Bias=0.0005
F = 52.390 GHz N2=9820
9
8
7
6
5
4
3
3
4
5
6
7
8
9

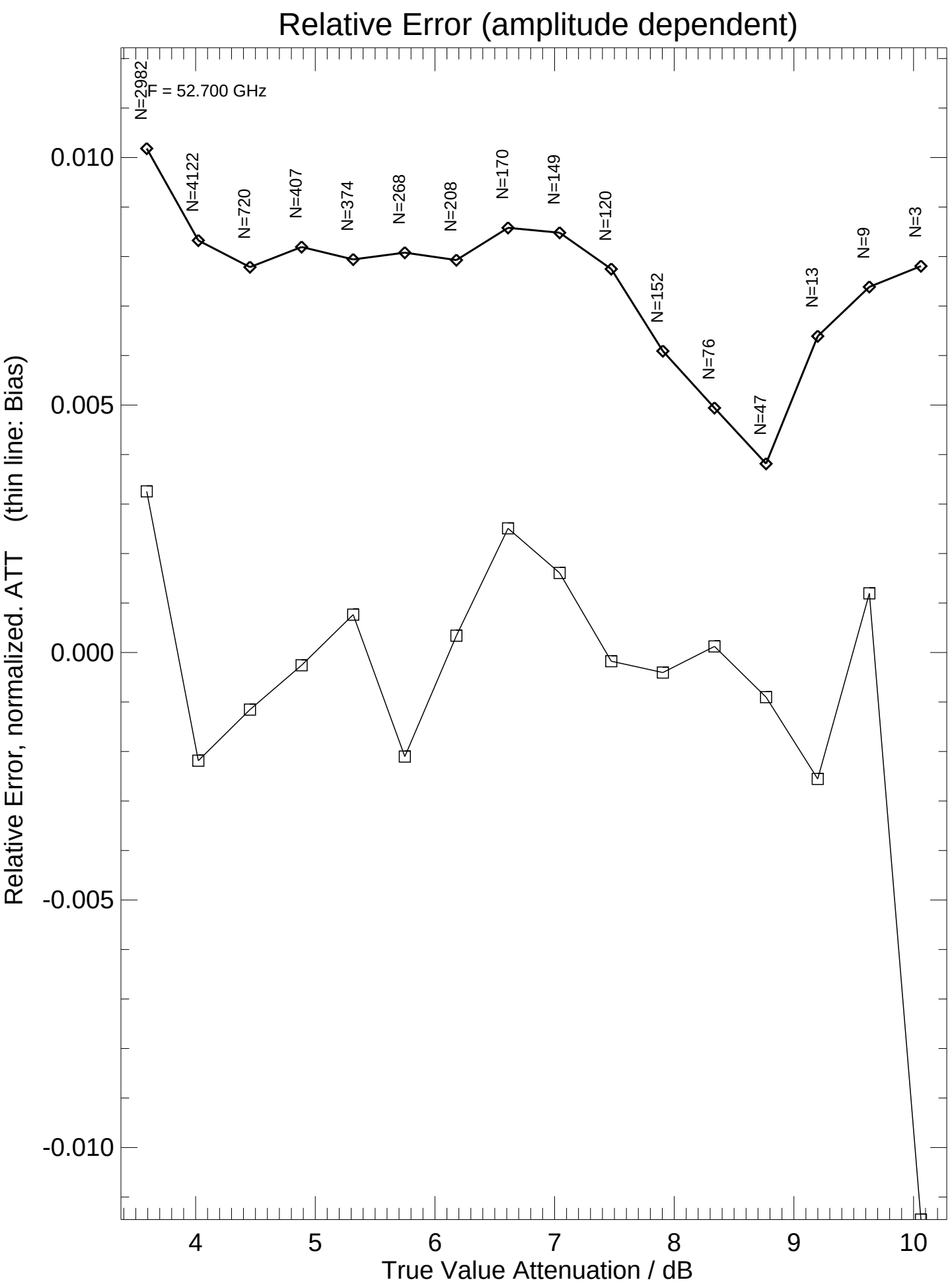

Absolute Error (amplitude dependent)
F = 52.390 GHz
Mean StD = 0.04 Max StD = 0.07
Mean bias = 0.01 Max bias = 0.02
N=3529
N=3642
N=685
N=401
N=360
N=268
N=208
N=158
N=148
N=120
N=155
N=74
N=47
N=13
N=9
N=3
0.05
0.00
-0.05
-0.10
RMS Error Attenuation / dB (thin line: Bias)
3
4
5
6
7
8
9
True Value Attenuation / dB

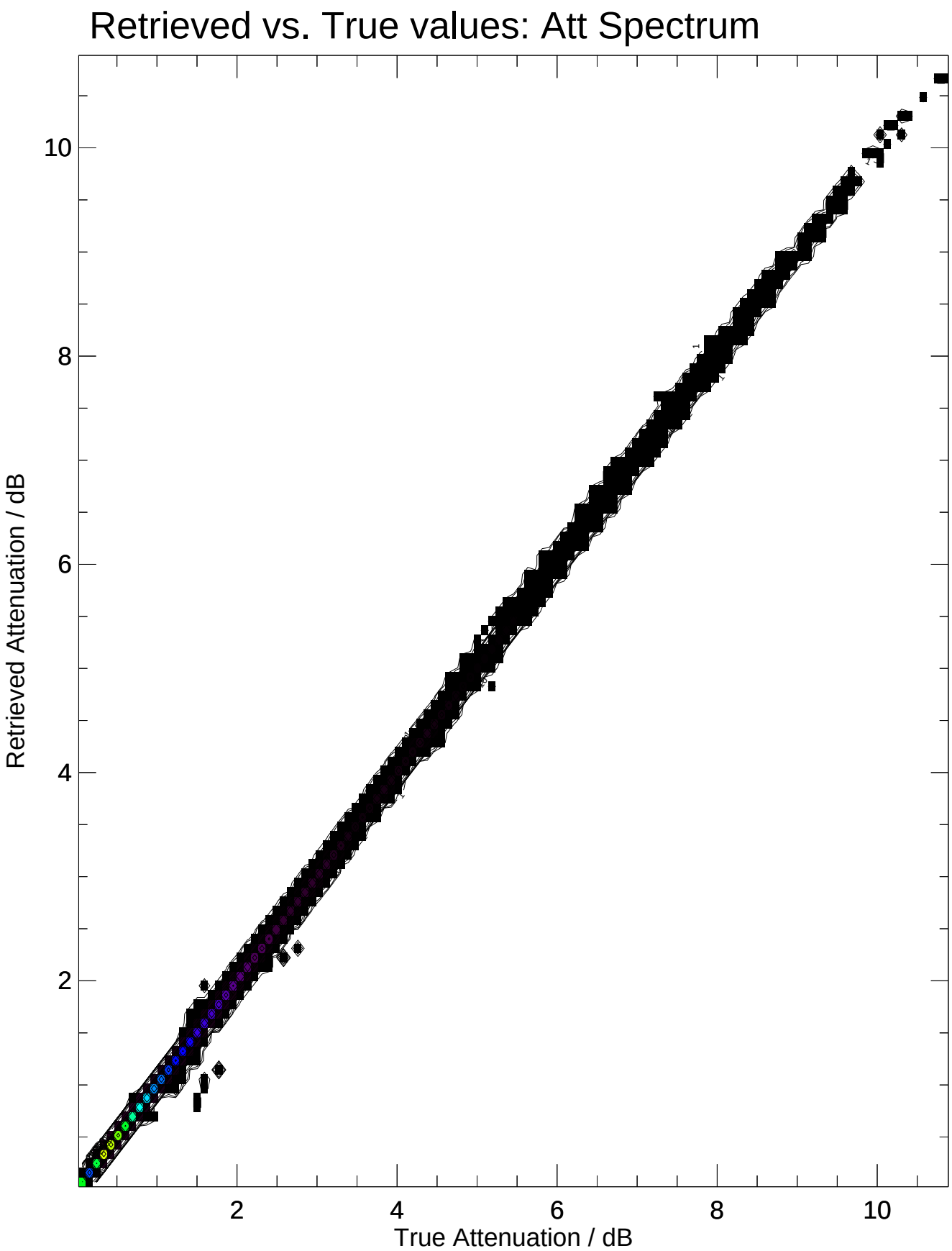

Relative Error (amplitude dependent)
F = 52.390 GHz
N=3529
N=3642
N=685
N=401
N=360
N=268
N=208
N=158
N=148
N=120
N=155
N=74
N=47
N=13
N=9
N=3
0.010
0.005
0.000
-0.005
-0.010
Relative Error, normalized. ATT (thin line: Bias)
3
4
5
6
7
8
9
True Value Attenuation / dB

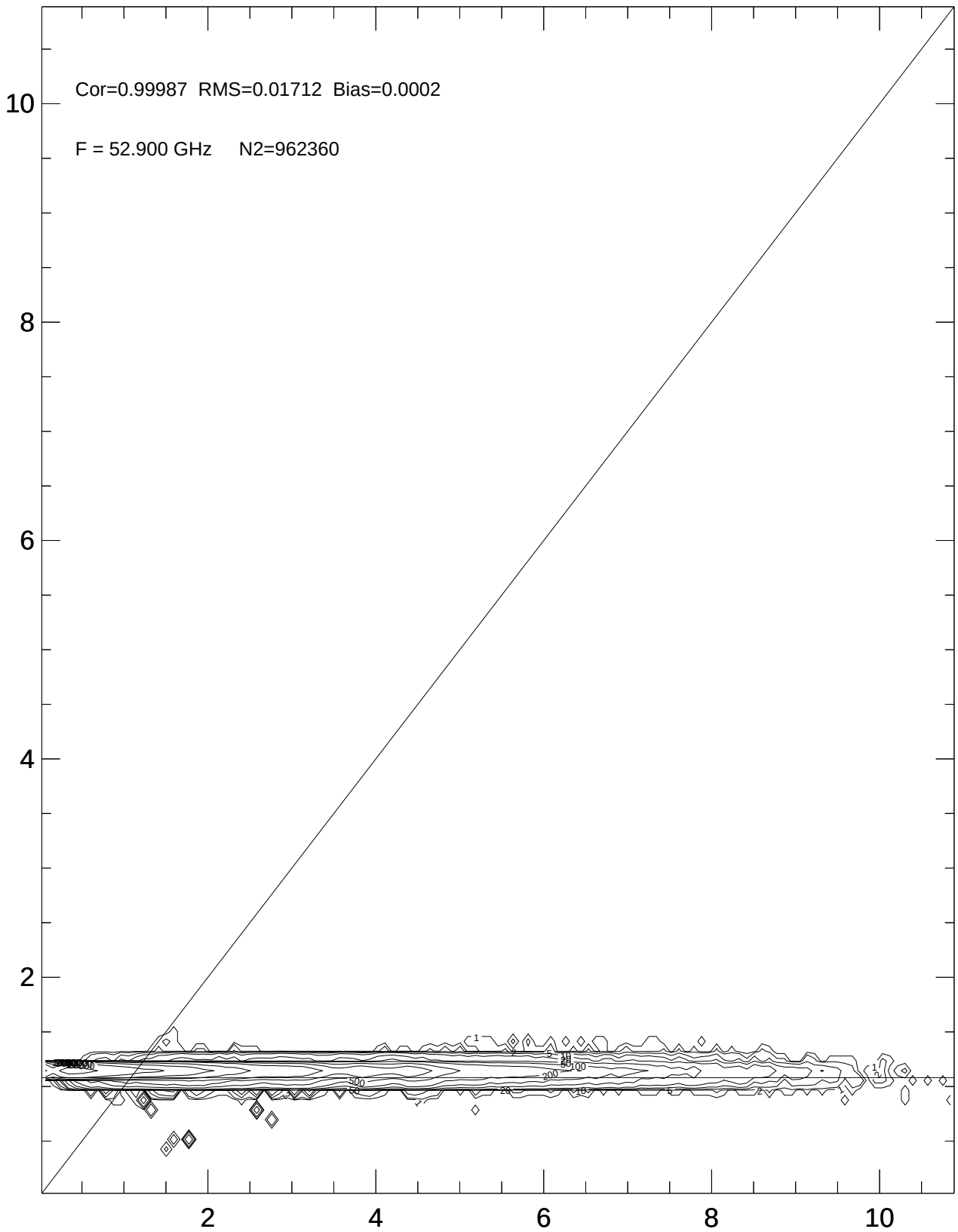

Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
4
5
6
7
8
9
10

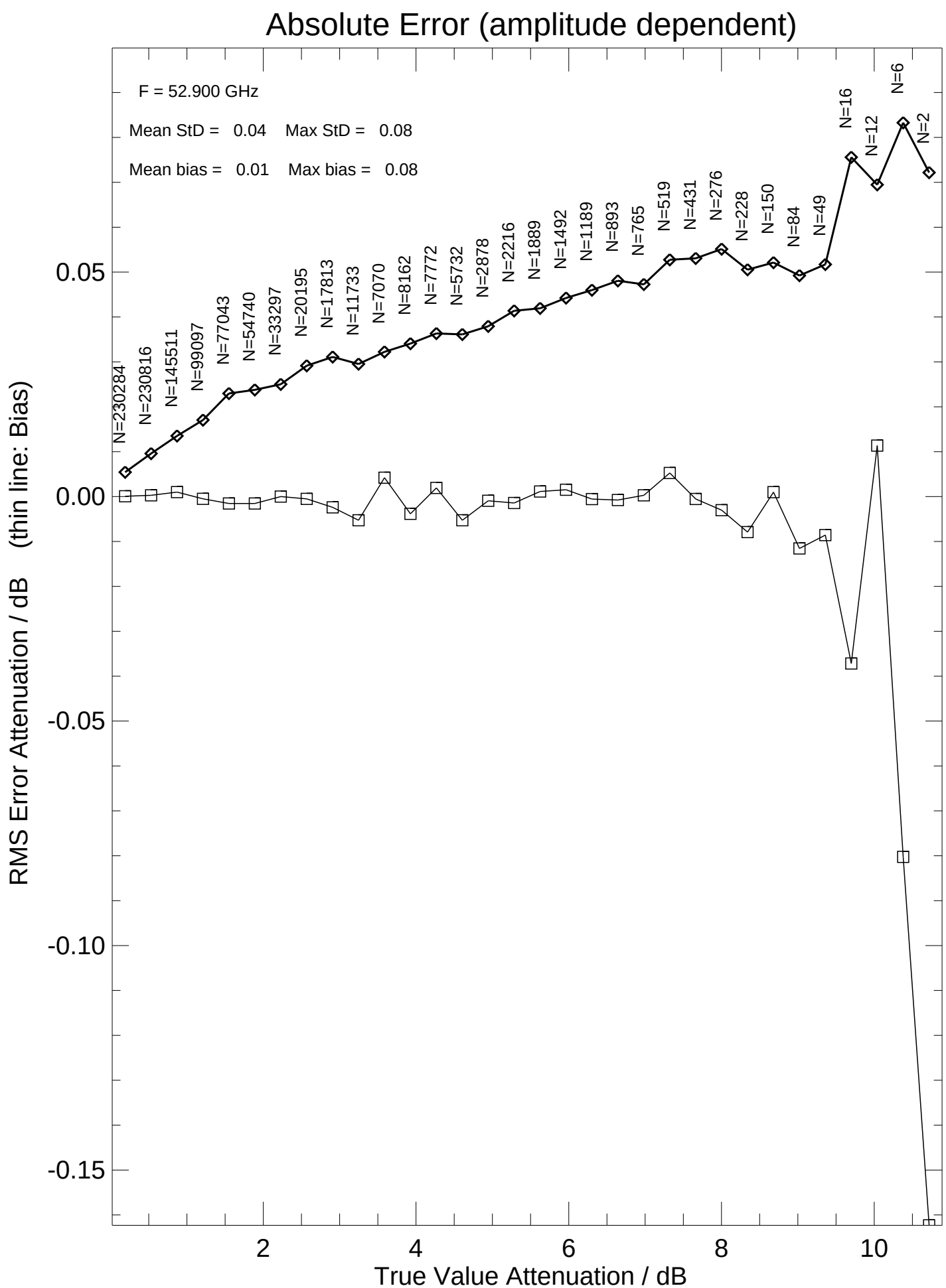

Cor=0.99935 RMS=0.03896 Bias=0.0004
F = 52.700 GHz N2=9820
10
9
8
7
6
5
4
4
5
6
7
8
9
10

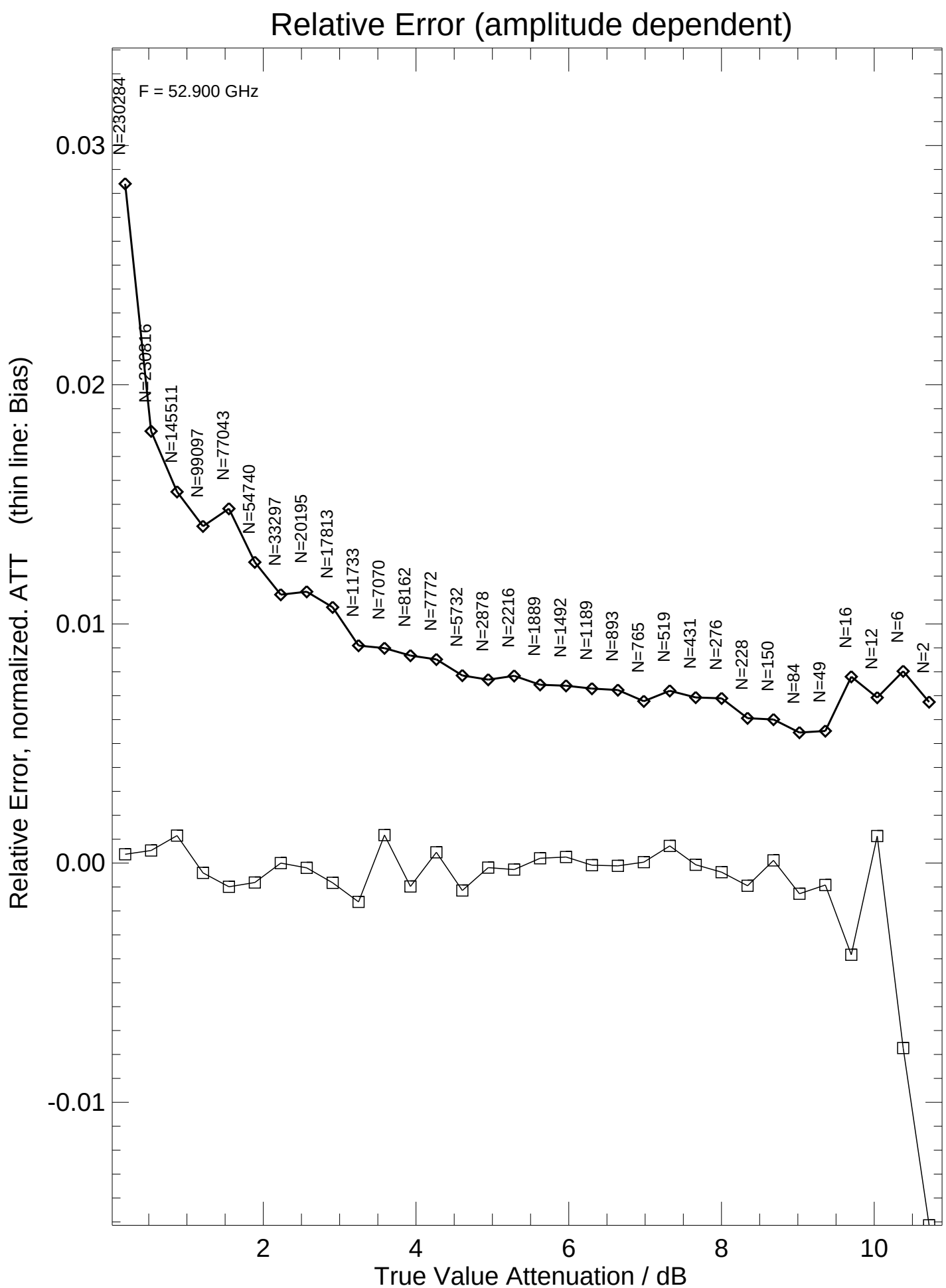

Absolute Error (amplitude dependent)
F = 52.700 GHz
Mean StD = 0.05 Max StD = 0.07
Mean bias = 0.01 Max bias = 0.02
N=2982
N=4122
N=720
N=407
N=374
N=268
N=208
N=170
N=149
N=120
N=152
N=76
N=47
N=13
N=9
N=3
0.05
0.00
-0.05
-0.10
RMS Error Attenuation / dB (thin line: Bias)
4
5
6
7
8
9
10
True Value Attenuation / dB


Relative Error (amplitude dependent)
F = 52.700 GHz
N=2982
N=4122
N=720
N=407
N=374
N=268
N=208
N=170
N=149
N=120
N=152
N=76
N=47
N=13
N=9
N=3
0.010
0.005
0.000
-0.005
-0.010
Relative Error, normalized. ATT (thin line: Bias)
4
5
6
7
8
9
10
True Value Attenuation / dB


Retrieved vs. True values: Att Spectrum
Retrieved Attenuation / dB
True Attenuation / dB
2
4
6
8
10


Cor=0.99987 RMS=0.01712 Bias=0.0002
F = 52.900 GHz N2=962360
10
8
6
4
2
2
4
6
8
10


Absolute Error (amplitude dependent)
F = 52.900 GHz
Mean StD = 0.04 Max StD = 0.08
Mean bias = 0.01 Max bias = 0.08
N=230284
N=230816
N=145511
N=99097
N=77043
N=54740
N=33297
N=20195
N=17813
N=11733
N=7070
N=8162
N=7772
N=5732
N=2878
N=2216
N=1889
N=1492
N=1189
N=893
N=765
N=519
N=431
N=276
N=228
N=150
N=84
N=49
N=16
N=12
N=6
N=2
0.05
0.00
-0.05
-0.10
-0.15
RMS Error Attenuation / dB (thin line: Bias)
2
4
6
8
10
True Value Attenuation / dB


Relative Error (amplitude dependent)
F = 52.900 GHz
N=230284
N=230816
N=145511
N=99097
N=77043
N=54740
N=33297
N=20195
N=17813
N=11733
N=7070
N=8162
N=7772
N=5732
N=2878
N=2216
N=1889
N=1492
N=1189
N=893
N=765
N=519
N=431
N=276
N=228
N=150
N=84
N=49
N=16
N=12
N=6
N=2
0.03
0.02
0.01
0.00
-0.01
Relative Error, normalized. ATT (thin line: Bias)
2
4
6
8
10
True Value Attenuation / dB