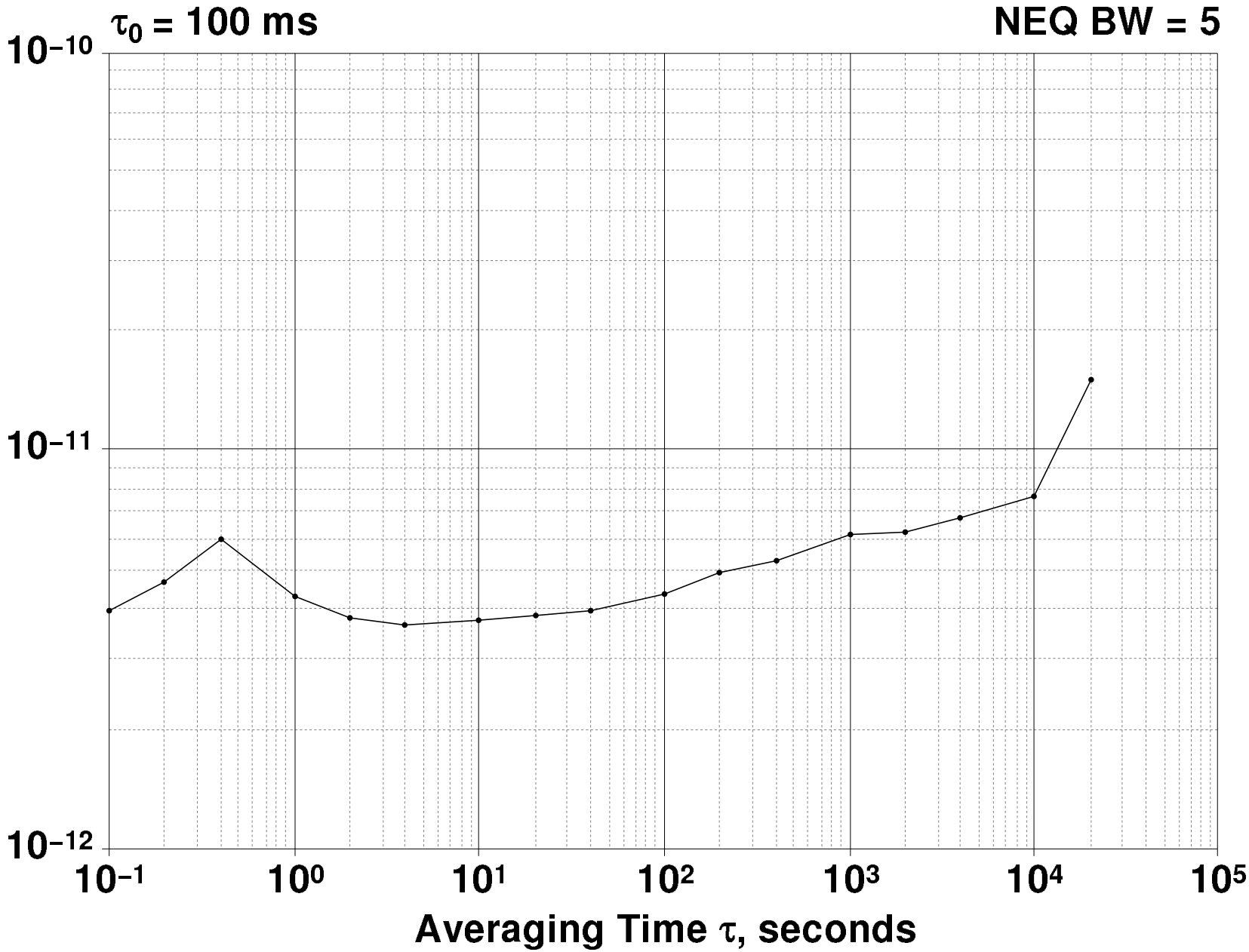
27/05/2007 17:21:00
16h 19m

TSC 5120A

Allan Deviation $\sigma_y(\tau)$



Input 5.0 MHz 15 dBm

Reference 5.0 MHz 13 dBm

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16h 19m

TSC 5120A

Allan Deviation $\sigma_y(\tau)$

τ_0 = 100 ms

Avg. Time (s)	Allan Deviation $\sigma_y(\tau)$
0.1	3.945×10^{-12}
0.2	4.679×10^{-12}
0.4	5.949×10^{-12}
1	4.286×10^{-12}
2	3.794×10^{-12}
4	3.649×10^{-12}
10	3.729×10^{-12}
20	3.85×10^{-12}
40	3.95×10^{-12}
100	4.38×10^{-12}
200	4.91×10^{-12}
400	5.30×10^{-12}
1000	6.2×10^{-12}
2000	6.2×10^{-12}
4000	6.8×10^{-12}
10000	7.7×10^{-12}
20000	1.5×10^{-11}

NEQ BW = 5

Input 5.0 MHz 15 dBm

Reference 5.0 MHz 13 dBm

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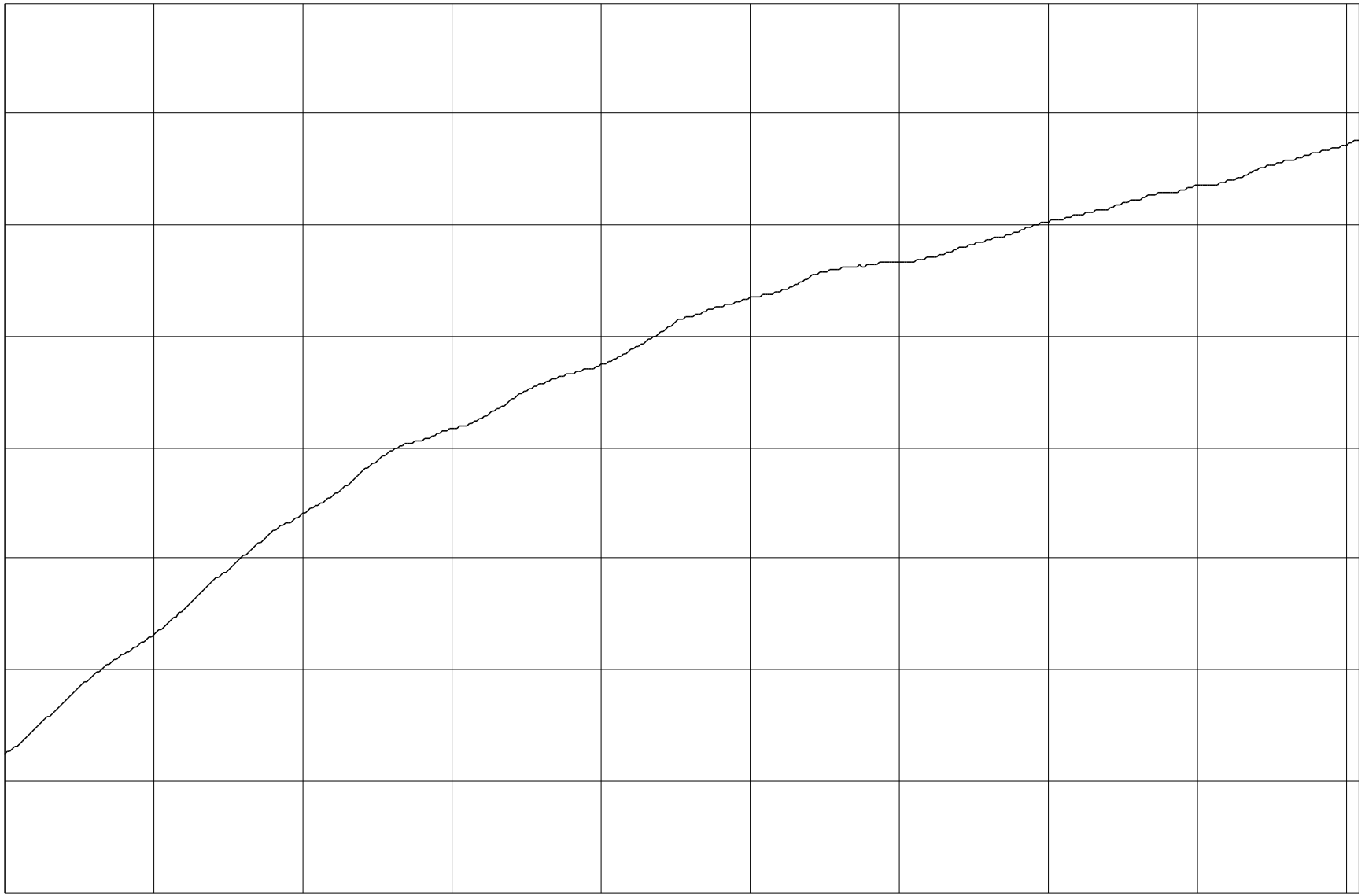
16h 19m

TSC 5120A

Phase Difference

2.0x10^{-09} s/div

Center: –2.0734x10^{-07} s



60s/div

Input 5.0 MHz 15 dBm

Reference 5.0 MHz 13 dBm

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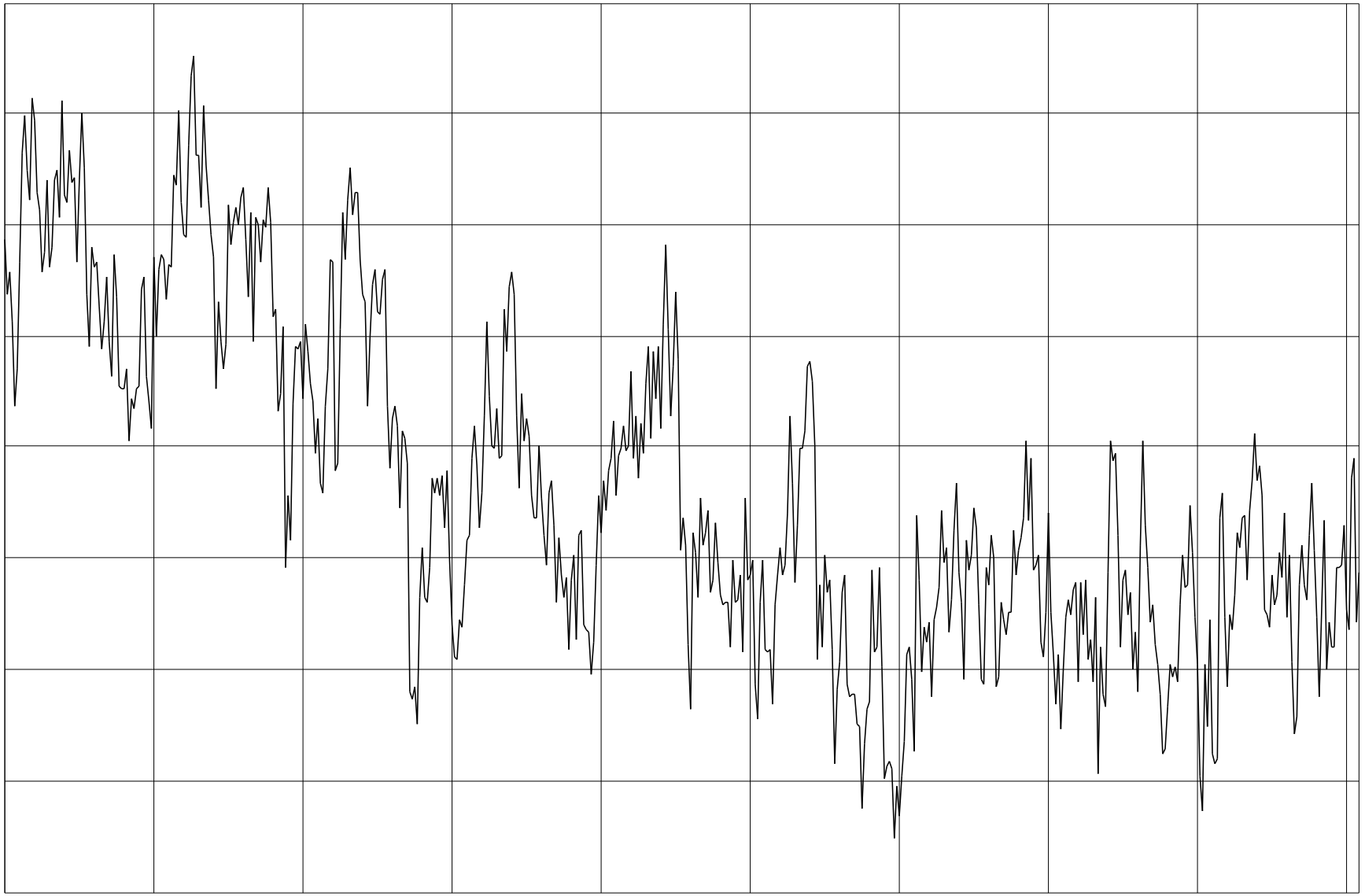
TSC 5120A

Frequency Difference

8.0x10^{-12} /div

Center: 2.315x10^{-11}



60s/div

Input 5.0 MHz 15 dBm

Reference 5.0 MHz 13 dBm

Frequency Counter

Sample Time (s)	Frequency (MHz)
1	5.0000000016250
10	5.00000000168224
100	5.000000001716547
1000	5.000000001661944

Reference Frequency: 5.0 MHz (auto)

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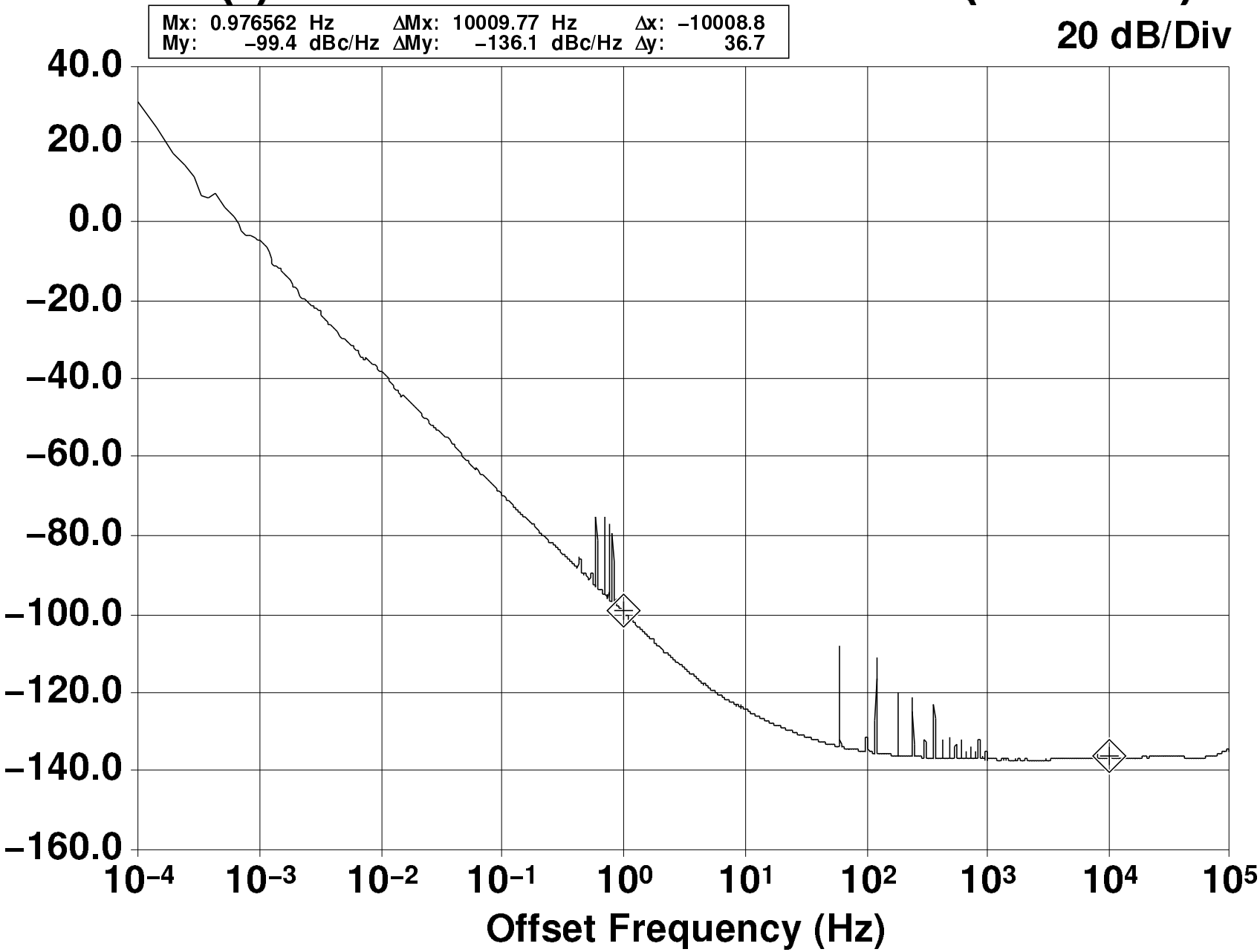
TSC 5120A

ℒ(f) Phase Noise at 5.0 MHz (dBc/Hz)



Input 5.0 MHz 15 dBm

Reference 5.0 MHz 13 dBm