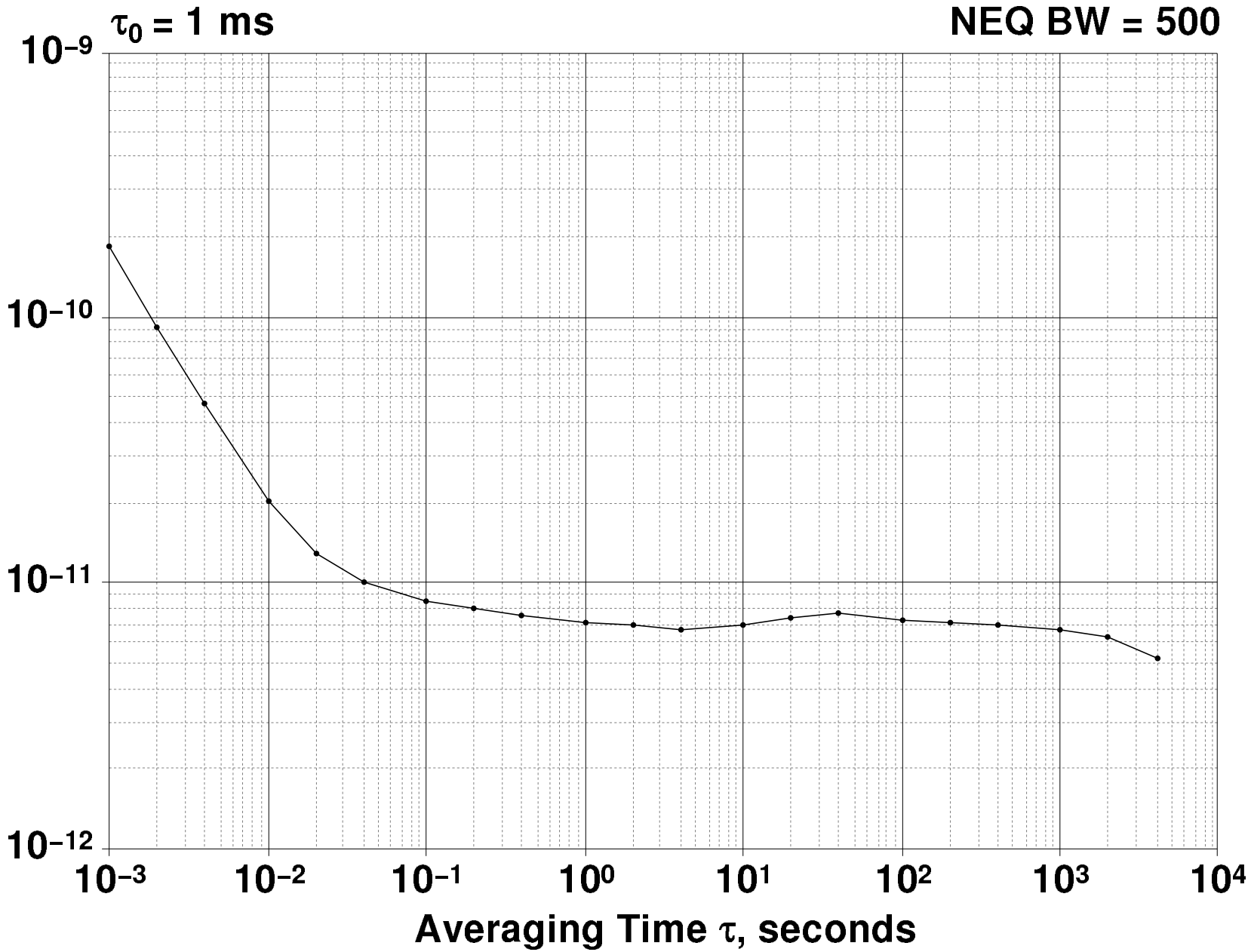
29/03/2007 20:39:20
2h 57m

TSC 5120A

Allan Deviation $\sigma_y(\tau)$



Input 10.0 MHz 6 dBm

Reference 5.0 MHz 13 dBm

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2h 57m

TSC 5120A

Allan Deviation $\sigma_y(\tau)$

τ_0 = 1 ms

NEQ BW = 500

Avg. Time (s)	Allan Deviation $\sigma_y(\tau)$
0.001	1.8387×10^{-10}
0.002	9.2294×10^{-11}
0.004	4.7451×10^{-11}
0.01	2.0483×10^{-11}
0.02	1.2881×10^{-11}
0.04	1.0056×10^{-11}
0.1	8.609×10^{-12}
0.2	8.012×10^{-12}
0.4	7.609×10^{-12}
1	7.14×10^{-12}
2	6.92×10^{-12}
4	6.70×10^{-12}
10	6.97×10^{-12}
20	7.35×10^{-12}
40	7.72×10^{-12}
100	7.2×10^{-12}
200	7.0×10^{-12}
400	6.9×10^{-12}
1000	6.7×10^{-12}
2000	6.2×10^{-12}
4000	5.2×10^{-12}

Input 10.0 MHz 6 dBm

Reference 5.0 MHz 13 dBm

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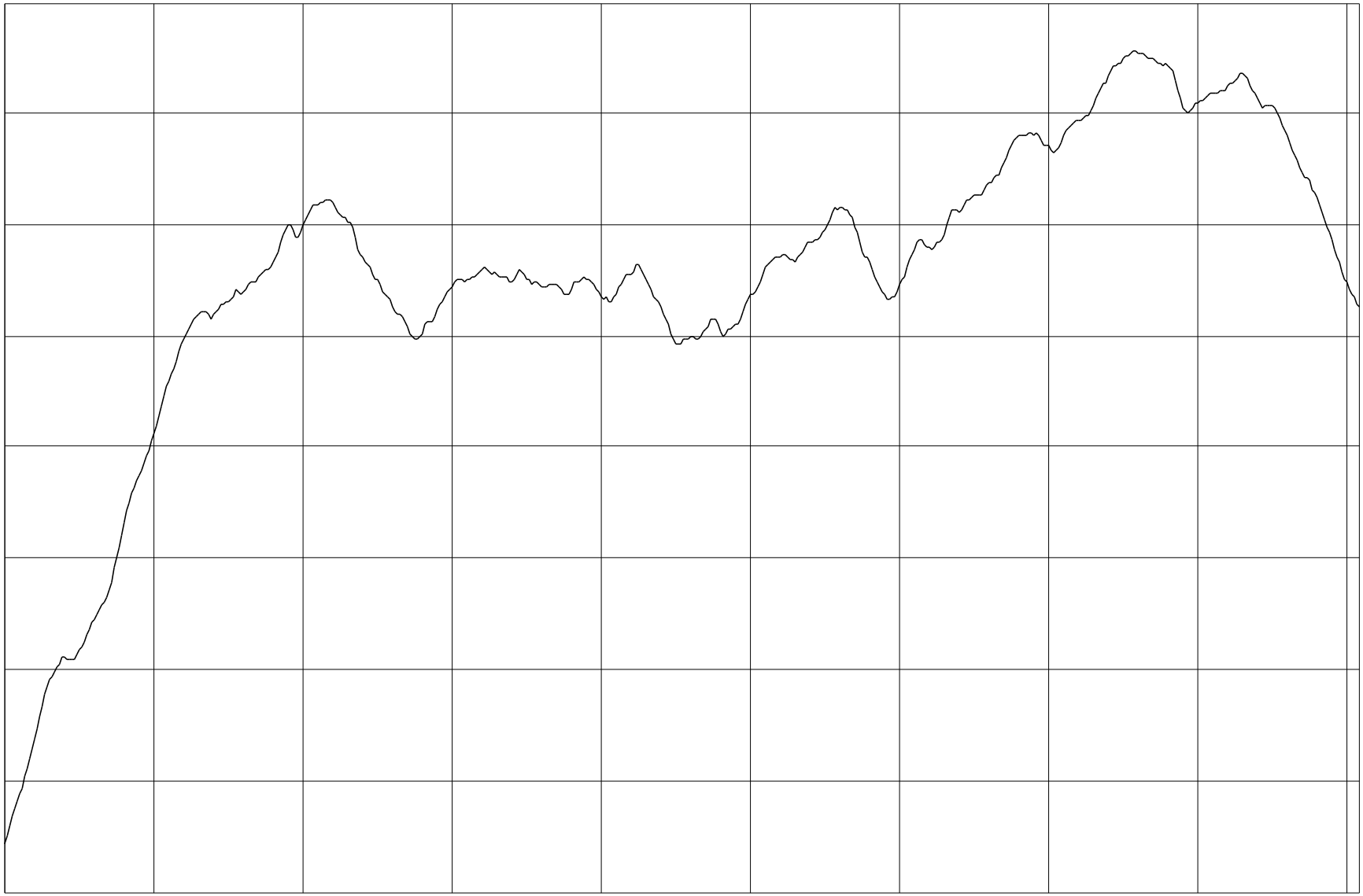
2h 57m

TSC 5120A

Phase Difference

4.0x10^{-10} s/div

Center: 1.29446x10^{-07} s



60s/div

Input 10.0 MHz 6 dBm

Reference 5.0 MHz 13 dBm

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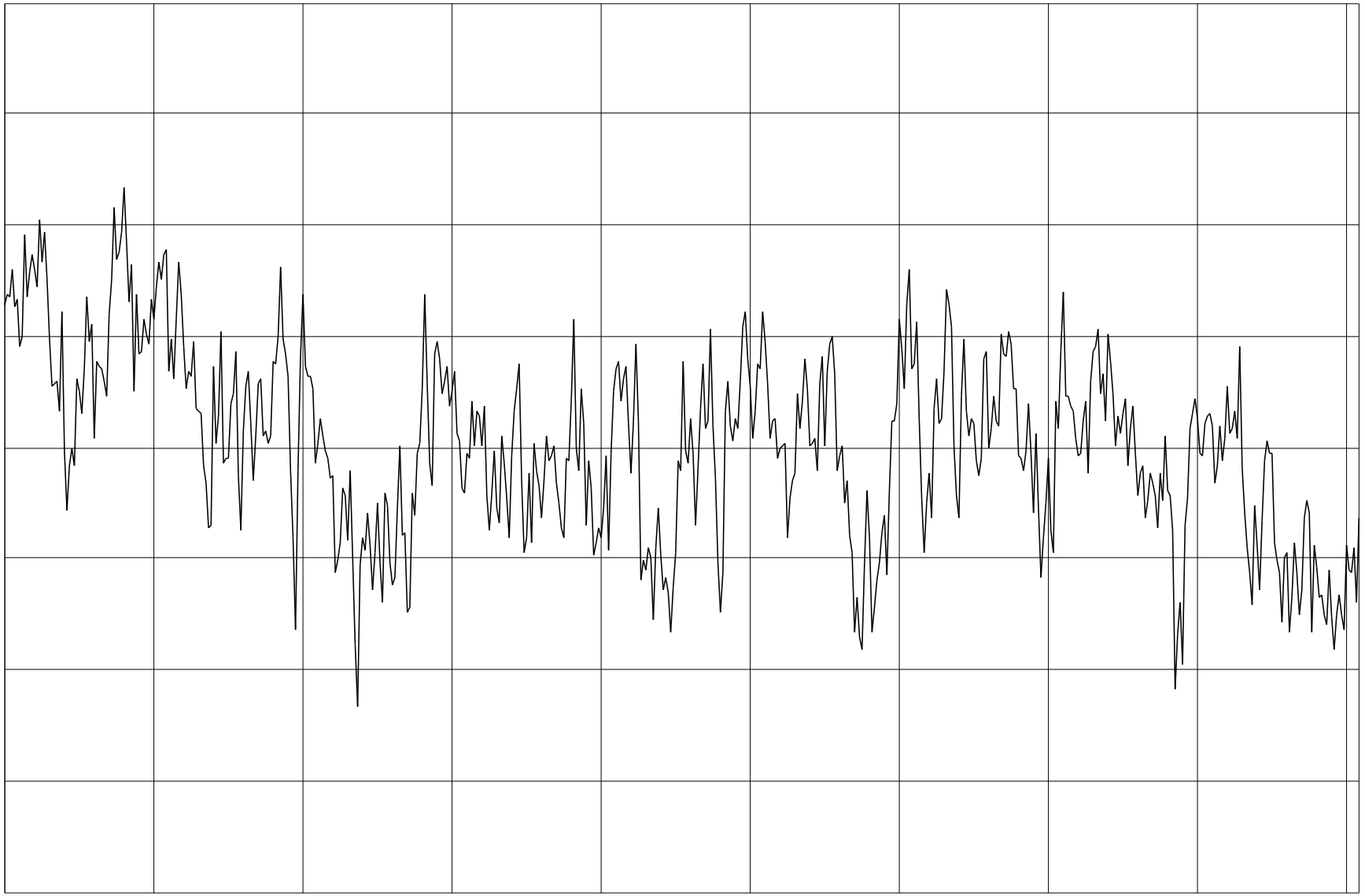
2h 57m

TSC 5120A

Frequency Difference

2.0x10^{-11} /div

Center: 3.095x10^{-12}



60s/div

Input 10.0 MHz 6 dBm

Reference 5.0 MHz 13 dBm

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2h 57m

Frequency Counter

TSC 5120A

Sample Time (s)	Frequency (MHz)
1	9.9999999691334
10	9.99999996913306
100	9.999999969183794
1000	9.999999969033820

Reference Frequency: 5.0 MHz (auto)

Input 10.0 MHz 6 dBm

Reference 5.0 MHz 13 dBm

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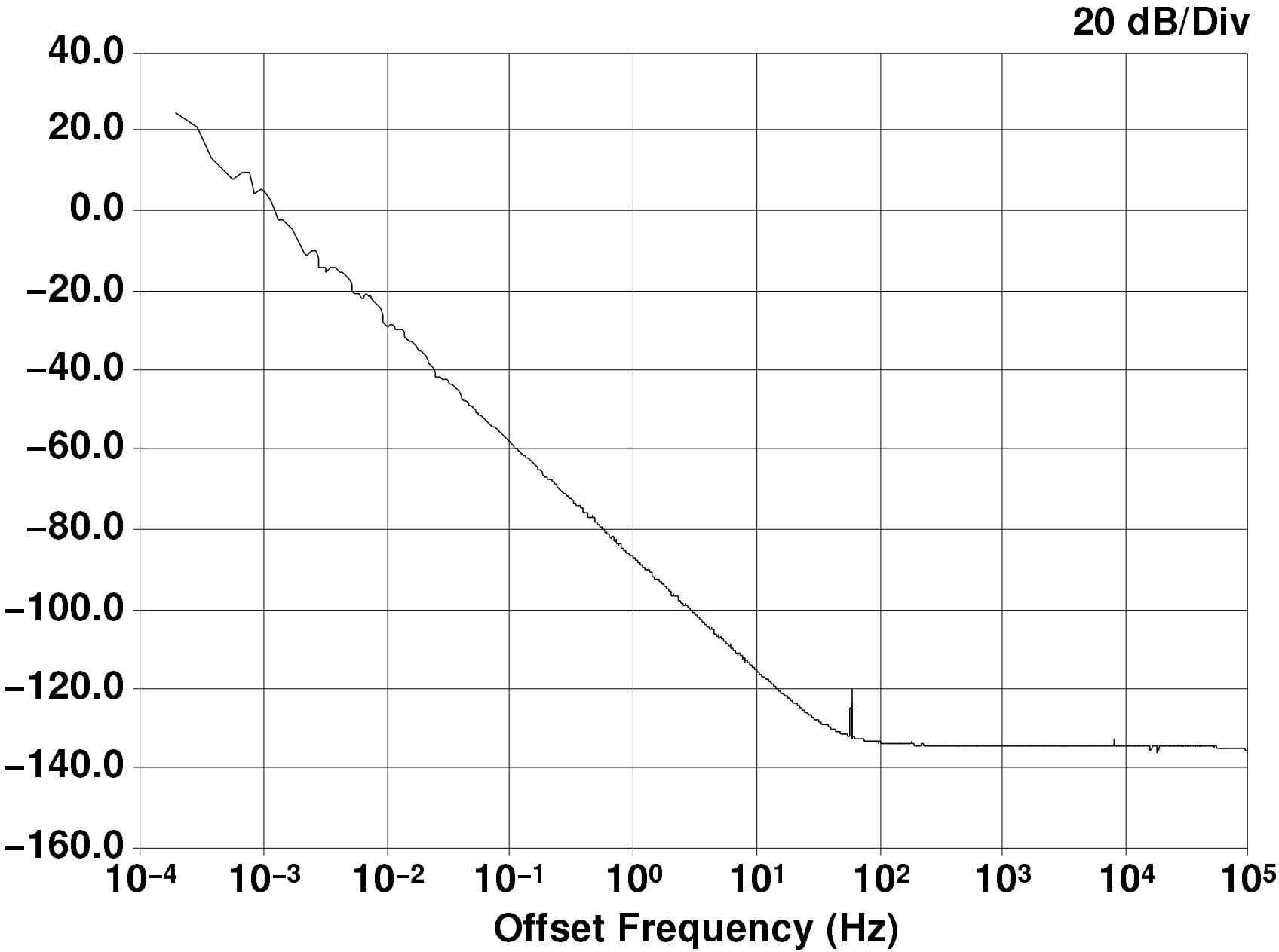
2h 57m

TSC 5120A

ℒ(f) Phase Noise at 10.0 MHz (dBc/Hz)



Input 10.0 MHz 6 dBm

Reference 5.0 MHz 13 dBm