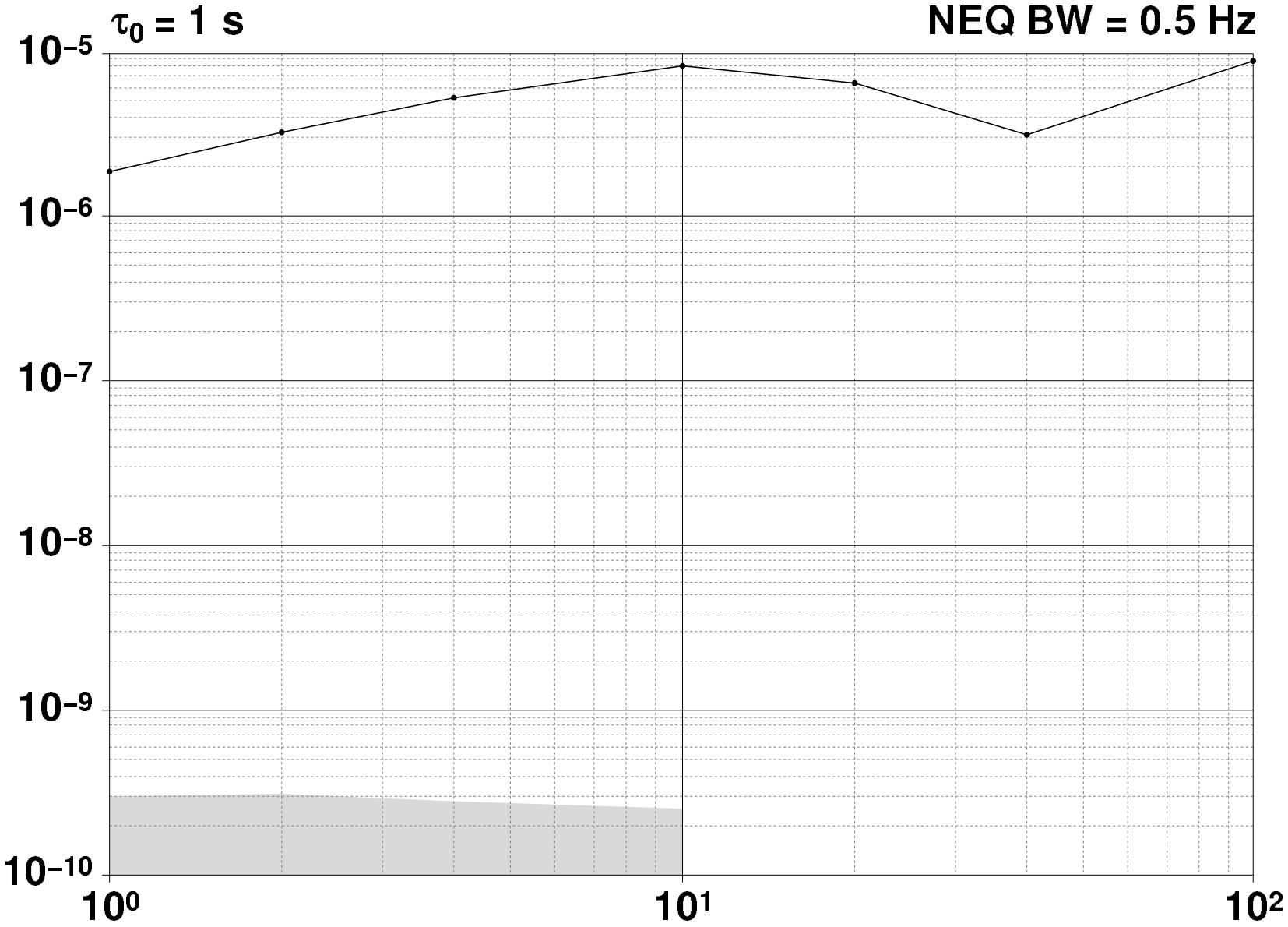
07/02/2012 00:08:38
4m

TSC 5120A

Allan Deviation $\sigma_y(\tau)$



Input 10.0 MHz 4 dBm

Reference 5.0 MHz 14 dBm

07/02/2012 00:08:38
4m

TSC 5120A

Allan Deviation $\sigma_y(\tau)$

Avg. Time (s)	Allan Deviation $\sigma_y(\tau)$	Noise Floor
1	1.87×10^{-6}	3.00172×10^{-10}
2	3.21×10^{-6}	3.10032×10^{-10}
4	5.1×10^{-6}	2.79816×10^{-10}
10	8.1×10^{-6}	2.55451×10^{-10}
20	6.3×10^{-6}	
40	3.1×10^{-6}	
100	8.6×10^{-6}	

$\tau_0 = 1$ s NEQ BW = 0.5 Hz

Input 10.0 MHz 4 dBm

Reference 5.0 MHz 14 dBm

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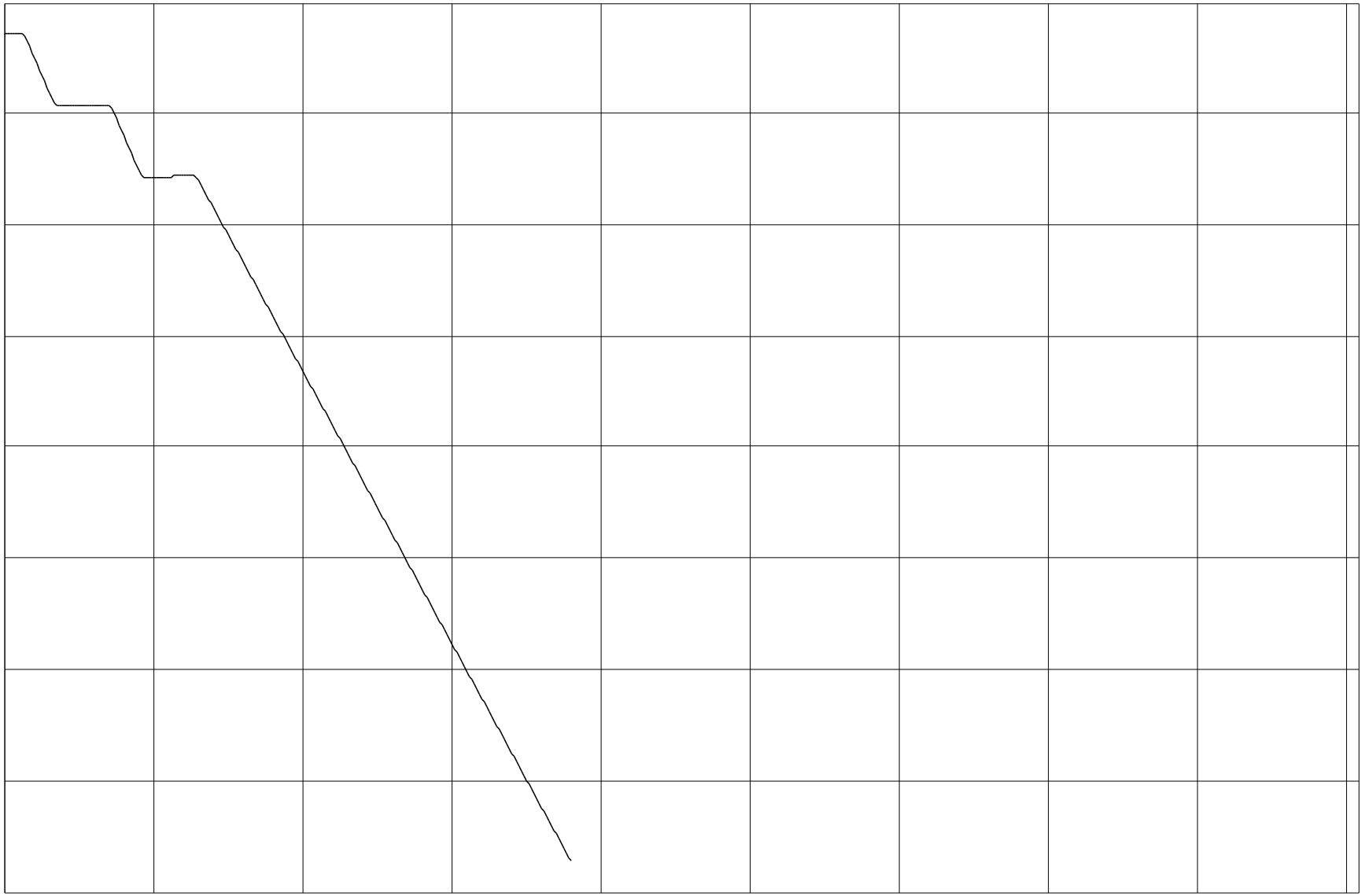
4m

Phase Difference

TSC 5120A

5.0x10^{-04} s/div

Center: –2.187x10^{-03} s



60s/div

Input 10.0 MHz 4 dBm

Reference 5.0 MHz 14 dBm

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4m

TSC 5120A

Frequency Difference

4.0x10^{-06} /div

Center: –1.263x10^{-05}

60s/div

Input 10.0 MHz 4 dBm

Reference 5.0 MHz 14 dBm

Frequency Counter

Sample Time (s)	Frequency (MHz)
1	9.9999999996754
10	9.99999999951806
100	9.999999995492186

Reference Frequency: 5.0 MHz (auto)

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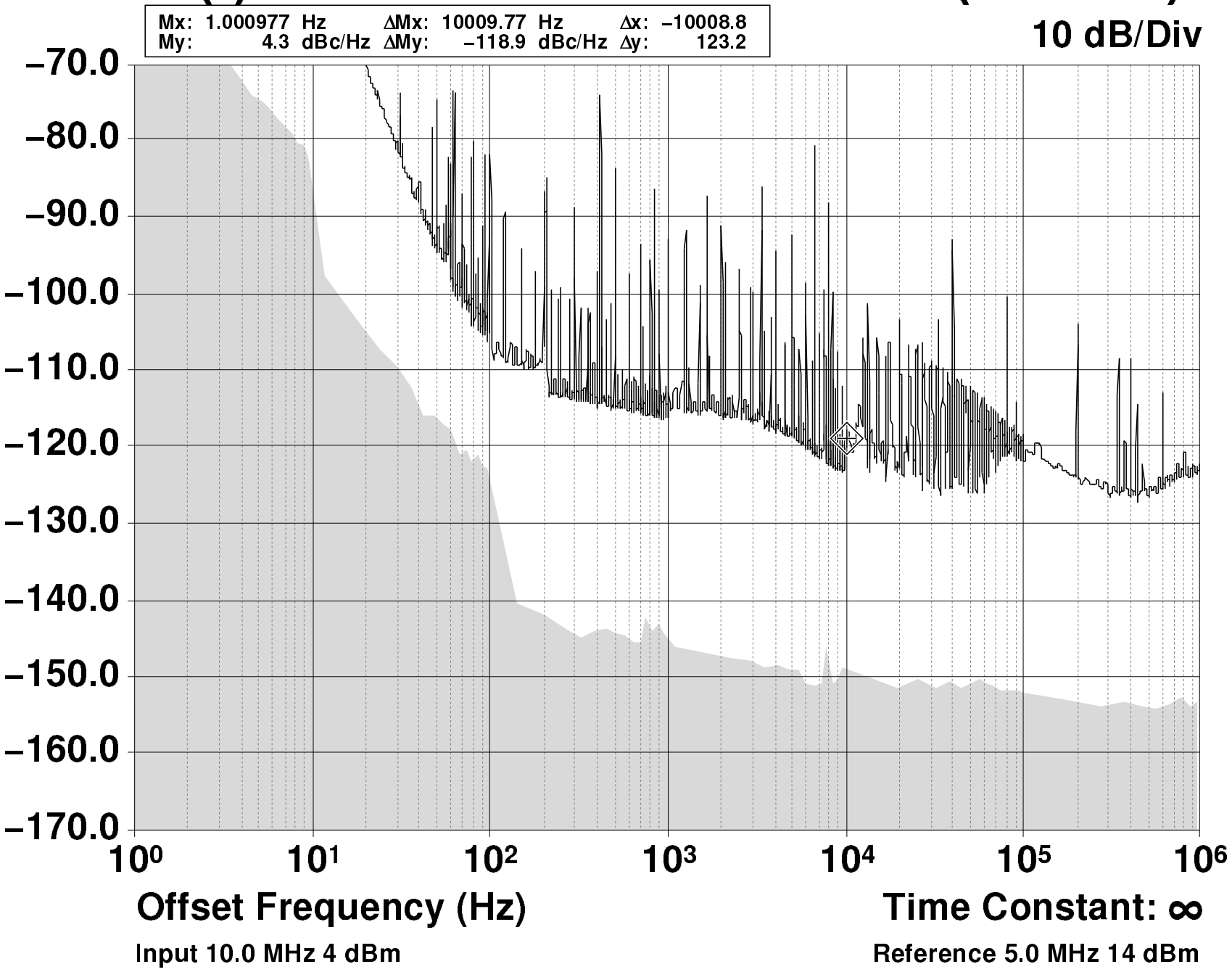
4m

TSC 5120A

ℒ(f) Phase Noise at 10.0 MHz (dBc/Hz)