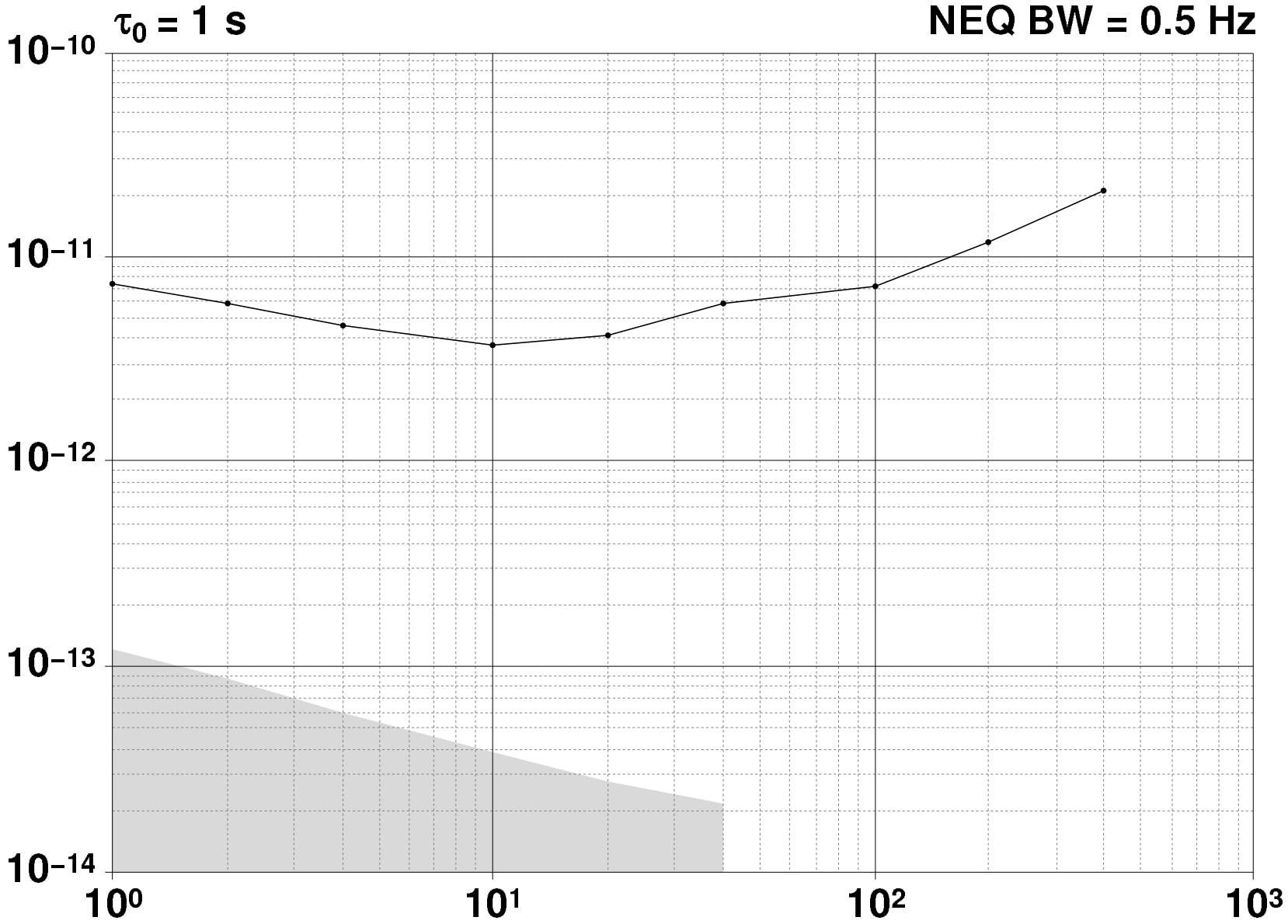
05/02/2012 14:42:43
15m

TSC 5120A

Allan Deviation $\sigma_y(\tau)$



Input 10.0 MHz 7 dBm

Reference 5.0 MHz 12 dBm

Allan Deviation $\sigma_y(\tau)$

Avg. Time (s)	Allan Deviation $\sigma_y(\tau)$	Noise Floor
1	7.41×10^{-12}	1.20453×10^{-13}
2	5.87×10^{-12}	8.84457×10^{-14}
4	4.55×10^{-12}	6.03898×10^{-14}
10	3.65×10^{-12}	3.84546×10^{-14}
20	4.1×10^{-12}	2.76320×10^{-14}
40	5.9×10^{-12}	2.18379×10^{-14}
100	7.0×10^{-12}	
200	1.2×10^{-11}	
400	2.1×10^{-11}	

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

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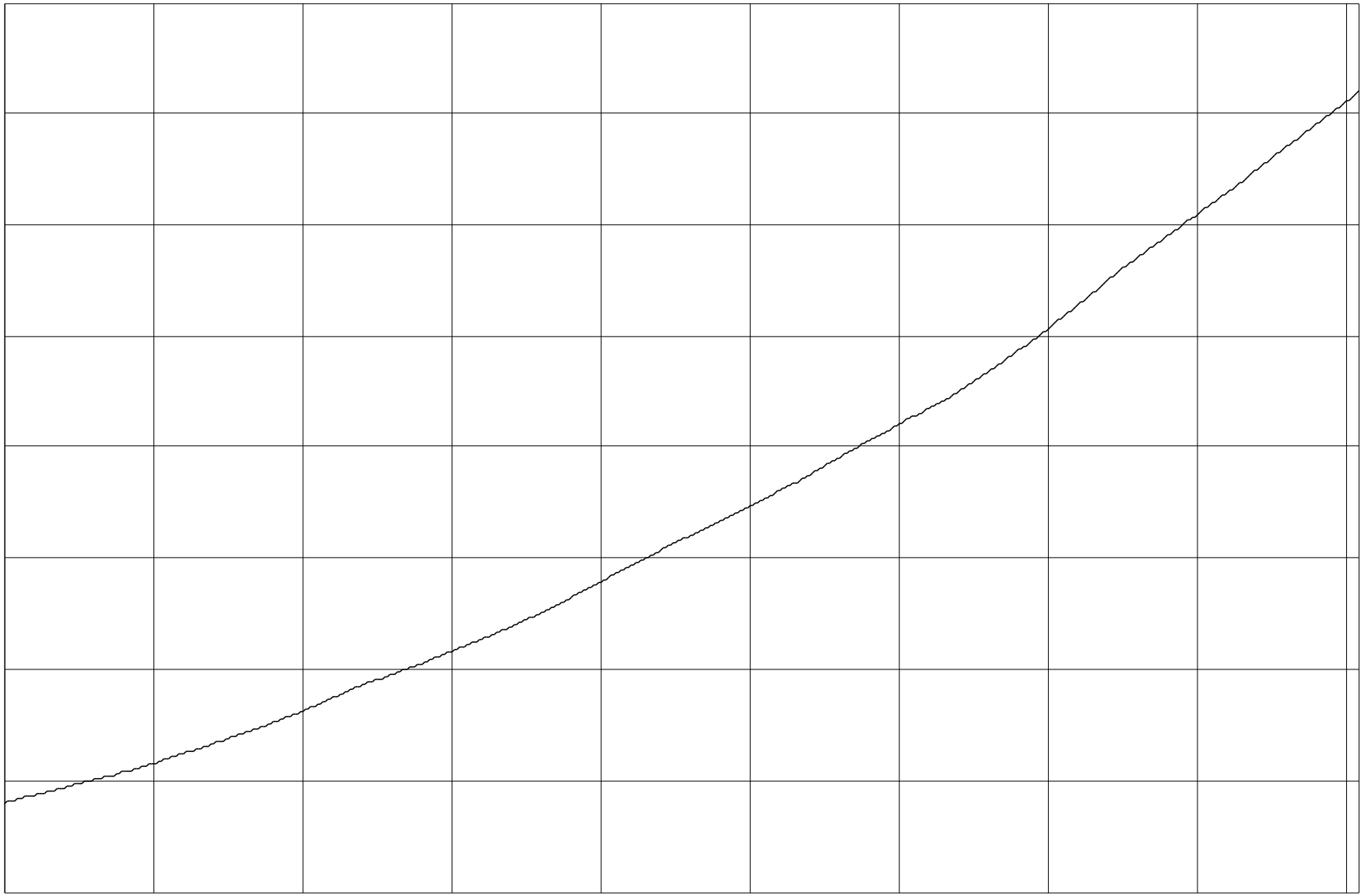
TSC 5120A

Phase Difference

5.0x10^{-09} s/div

Center: 2.552x10^{-08} s



60s/div

Input 10.0 MHz 7 dBm

Reference 5.0 MHz 12 dBm

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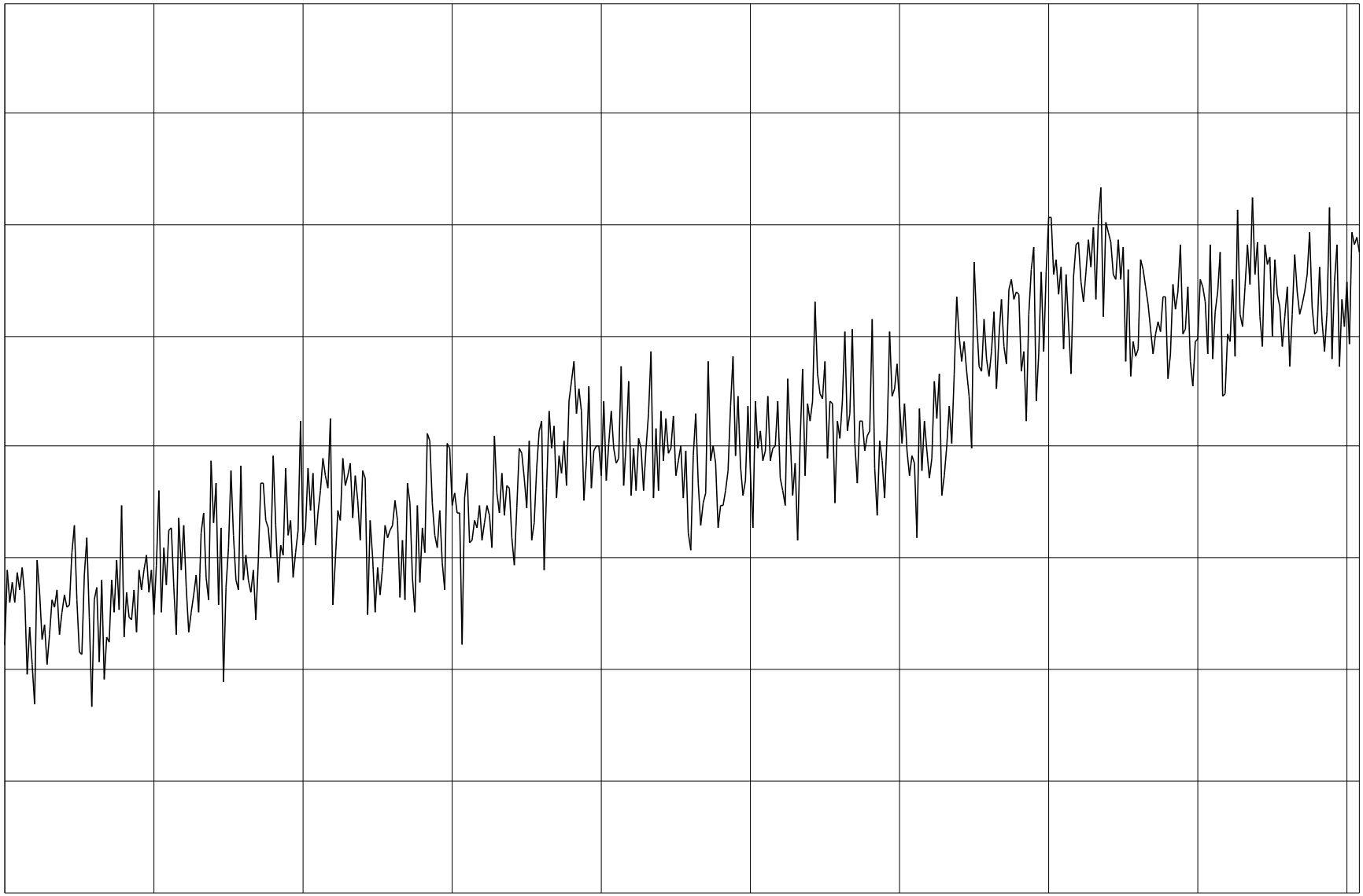
15m

TSC 5120A

Frequency Difference

2.0x10^{-11} /div

Center: 5.791x10^{-11}



60s/div

Input 10.0 MHz 7 dBm

Reference 5.0 MHz 12 dBm

Frequency Counter

Sample Time (s)	Frequency (MHz)
1	9.9999998444989
10	9.99999984432071
100	9.999999844338947

Reference Frequency: 5.0 MHz (auto)

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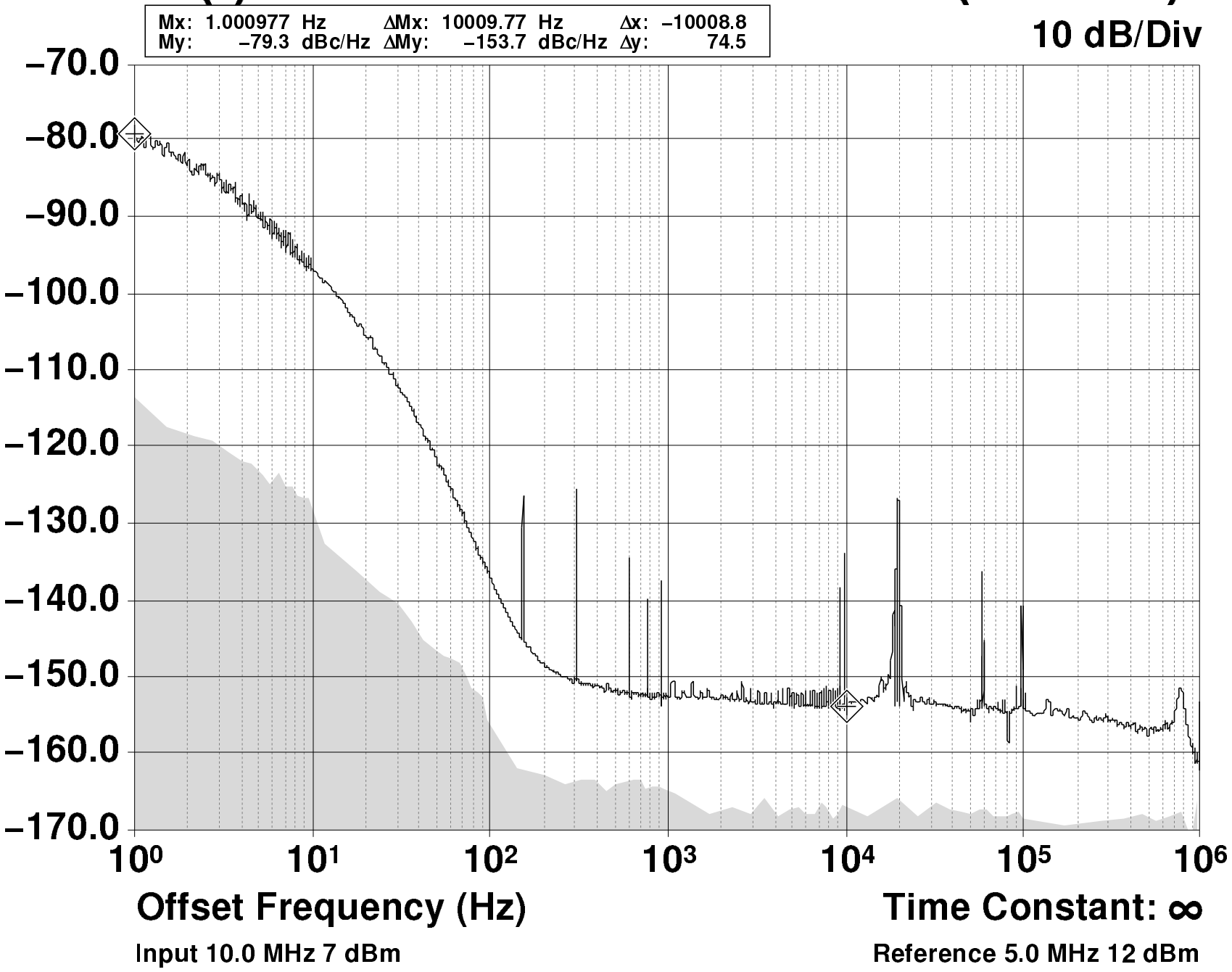
$\mathcal{L}$(f) Phase Noise at 10.0 MHz (dBc/Hz)



Input 10.0 MHz 7 dBm

Reference 5.0 MHz 12 dBm