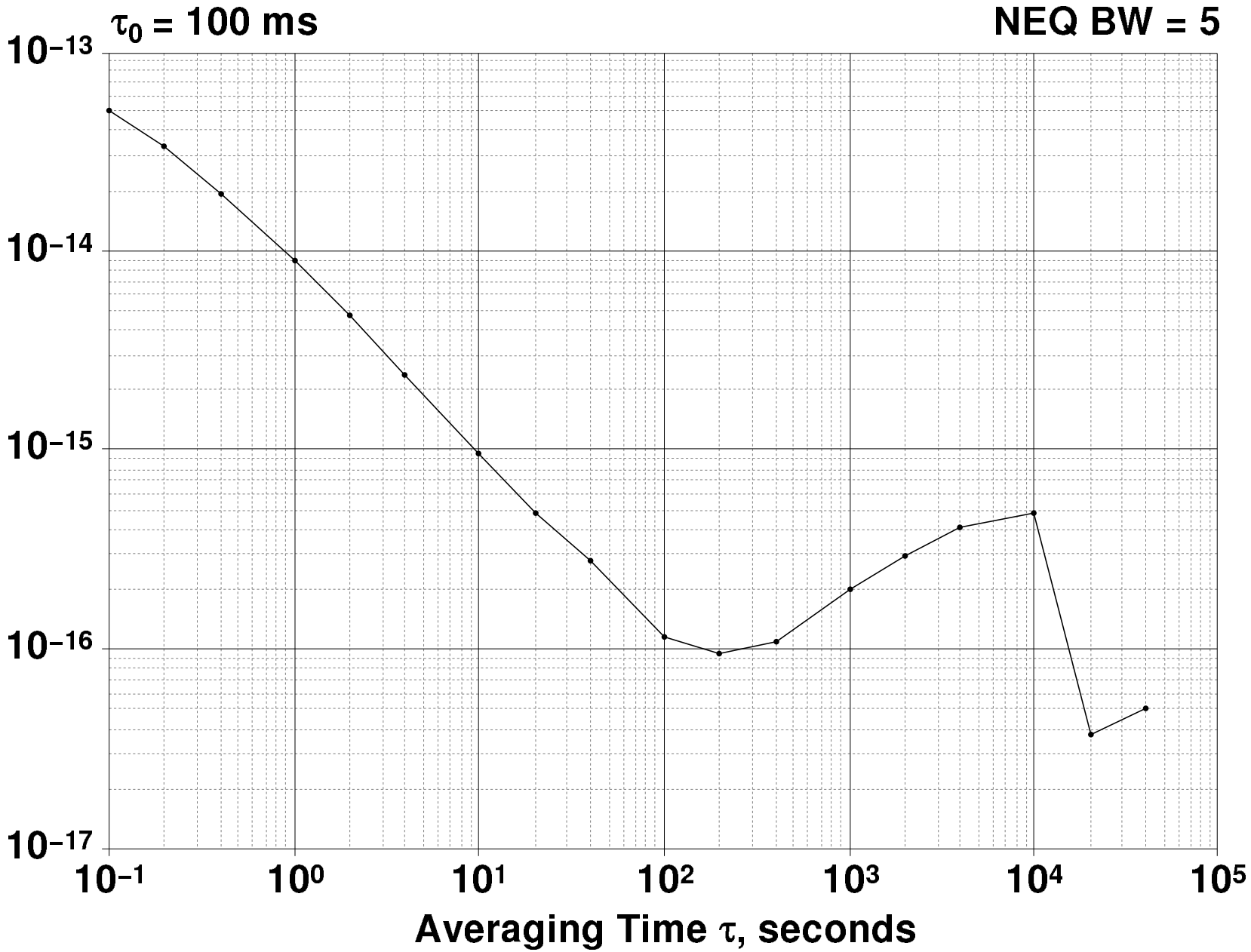
14/06/2007 22:35:51
1d 0h

TSC 5120A

Allan Deviation $\sigma_y(\tau)$



Input 5.0 MHz 11 dBm

Reference 5.0 MHz 11 dBm

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1d 0h

TSC 5120A

Allan Deviation $\sigma_y(\tau)$

τ_0 = 100 ms

NEQ BW = 5

Avg. Time (s)	Allan Deviation $\sigma_y(\tau)$
0.1	5.094×10^{-14}
0.2	3.3119×10^{-14}
0.4	1.9243×10^{-14}
1	8.792×10^{-15}
2	4.680×10^{-15}
4	2.348×10^{-15}
10	9.66×10^{-16}
20	4.86×10^{-16}
40	2.77×10^{-16}
100	1.166×10^{-16}
200	9.51×10^{-17}
400	1.11×10^{-16}
1000	2.02×10^{-16}
2000	2.96×10^{-16}
4000	4.0×10^{-16}
10000	4.8×10^{-16}
20000	3.8×10^{-17}
40000	5.0×10^{-17}

Input 5.0 MHz 11 dBm

Reference 5.0 MHz 11 dBm

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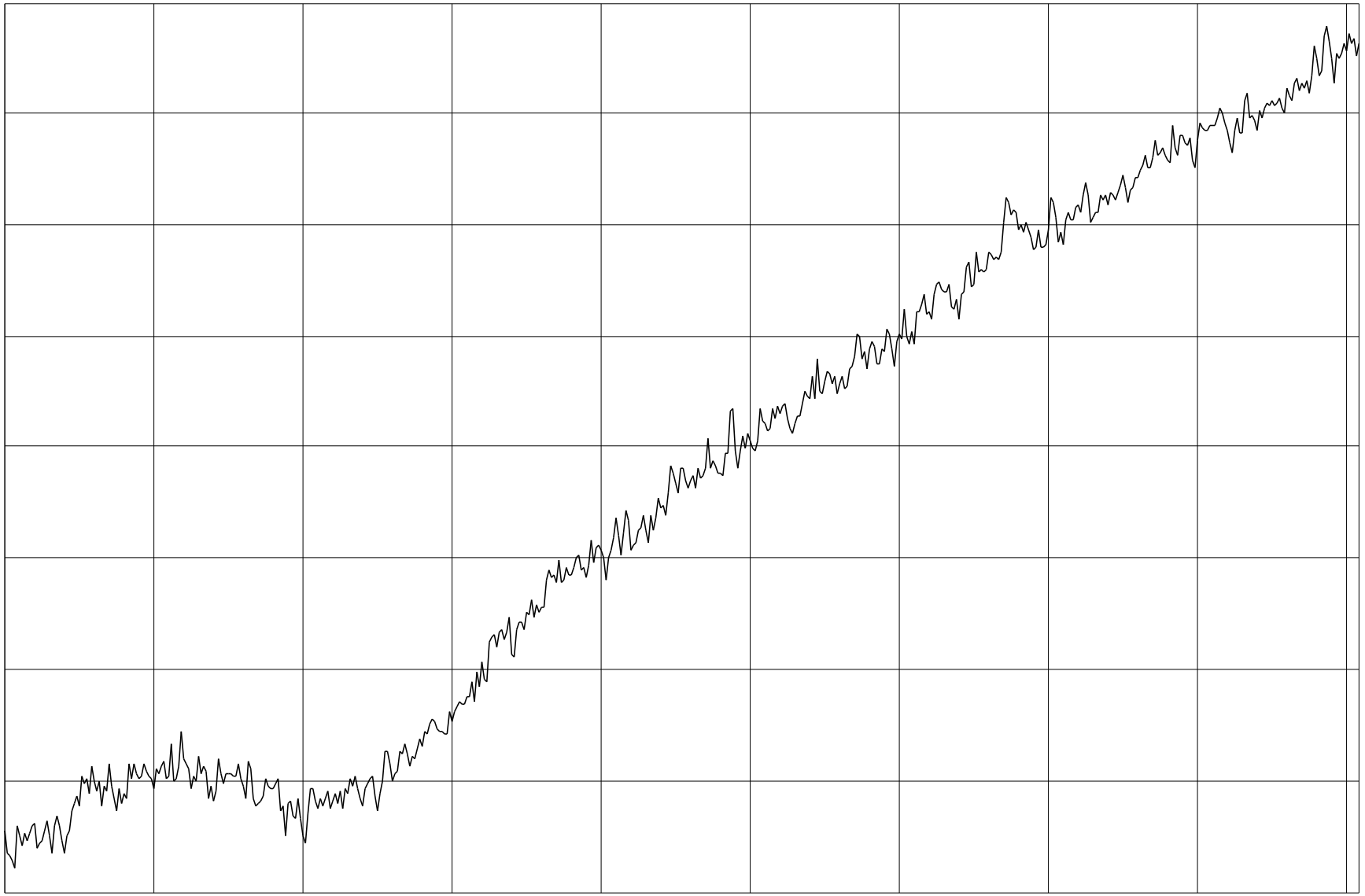
Phase Difference

5.0x10^{-14} s/div

Center: –2.1792x10^{-12} s



60s/div

Input 5.0 MHz 11 dBm

Reference 5.0 MHz 11 dBm

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1d 0h

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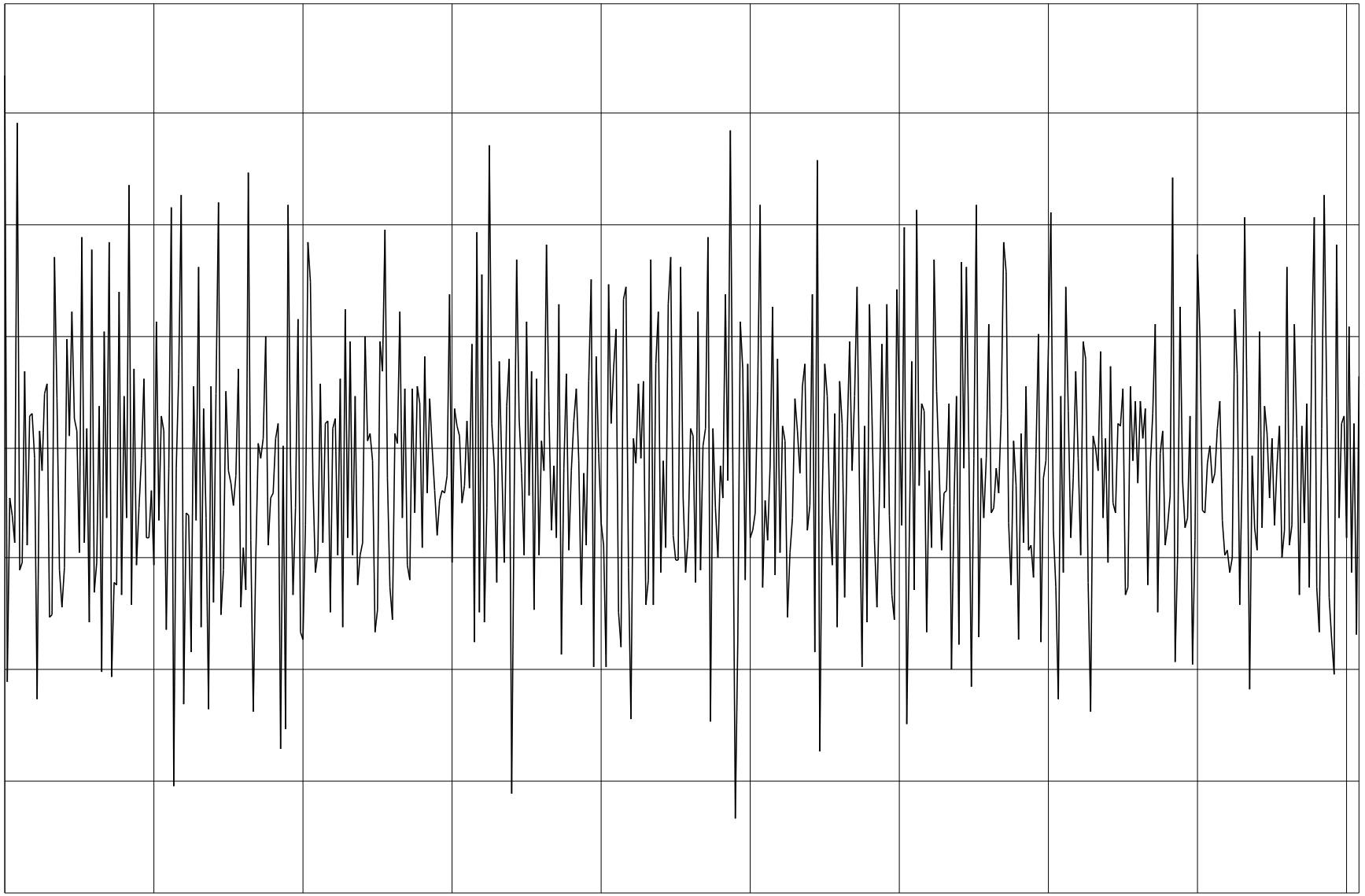
Frequency Difference

6.0x10^{-15} /div

Center: 1.770x10^{-15}



60s/div

Input 5.0 MHz 11 dBm

Reference 5.0 MHz 11 dBm

Frequency Counter

Sample Time (s)	Frequency (MHz)
1	5.0000000000000
10	5.00000000000000
100	4.999999999999996
1000	4.999999999999997

Reference Frequency: 5.0 MHz (auto)

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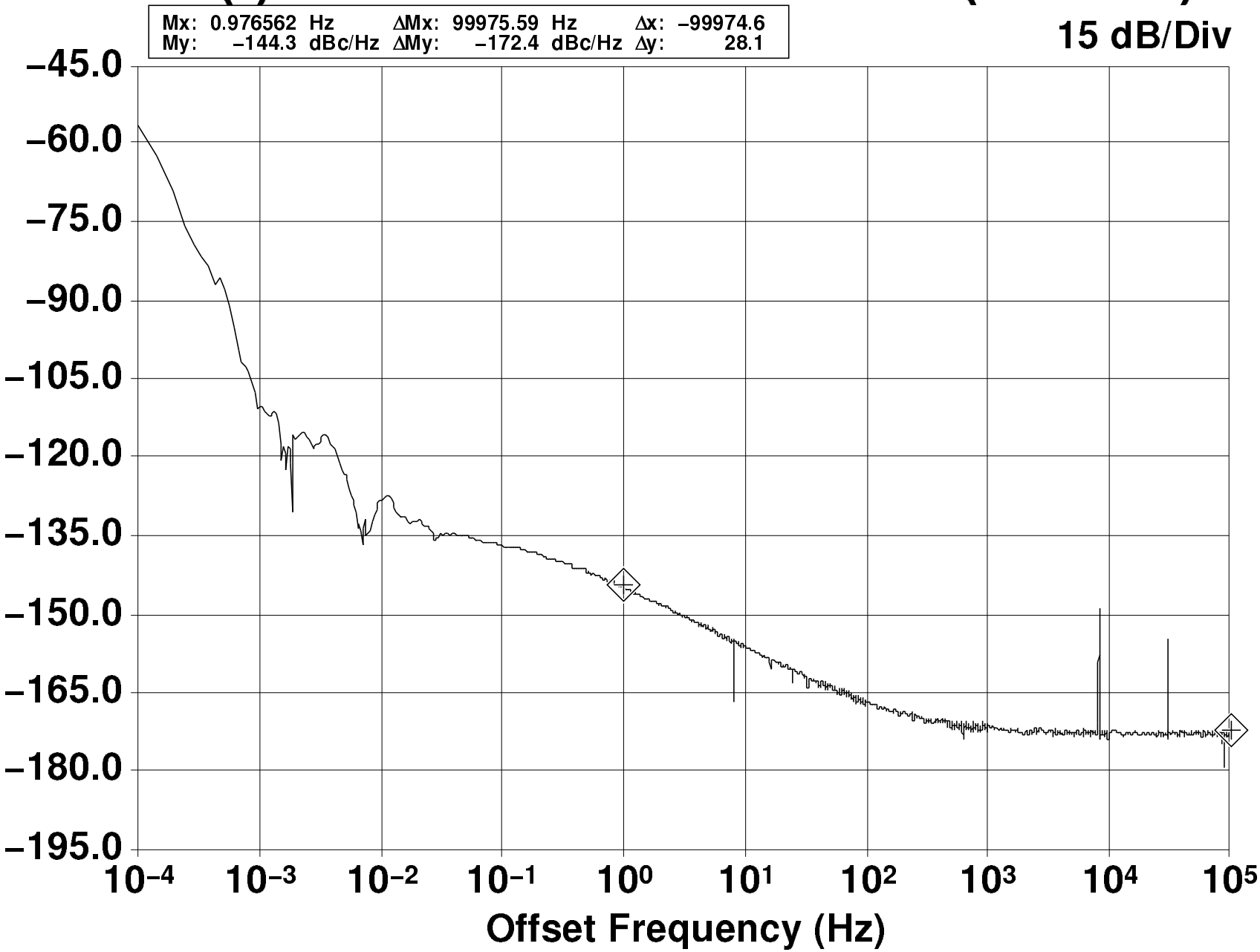
$\mathcal{L}$(f) Phase Noise at 5.0 MHz (dBc/Hz)



Input 5.0 MHz 11 dBm

Reference 5.0 MHz 11 dBm