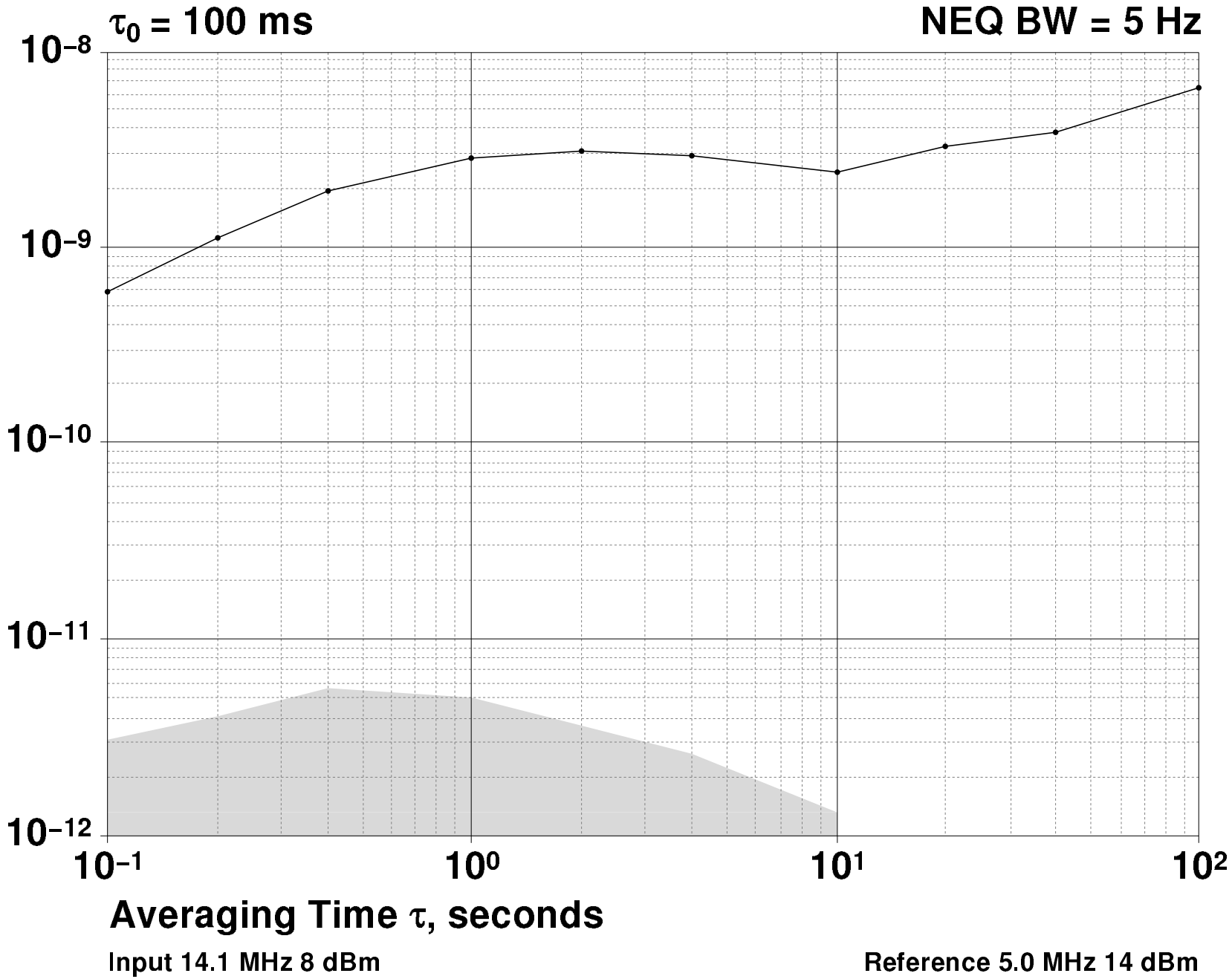
18 May 2008 22:33:44
6m

TSC 5120A

Allan Deviation $\sigma_y(\tau)$



Input 14.1 MHz 8 dBm

Reference 5.0 MHz 14 dBm

18 May 2008 22:33:44
6m

TSC 5120A

Allan Deviation $\sigma_y(\tau)$

Avg. Time (s)	Allan Deviation $\sigma_y(\tau)$	Noise Floor
0.1	5.90×10^{-10}	3.04531×10^{-12}
0.2	1.107×10^{-9}	4.09219×10^{-12}
0.4	1.90×10^{-9}	5.71900×10^{-12}
1	2.85×10^{-9}	5.05467×10^{-12}
2	3.10×10^{-9}	3.66829×10^{-12}
4	2.86×10^{-9}	2.58747×10^{-12}
10	2.39×10^{-9}	1.30367×10^{-12}
20	3.2×10^{-9}	
40	3.9×10^{-9}	
100	6.4×10^{-9}	

τ_0 = 100 ms NEQ BW = 5 Hz

Input 14.1 MHz 8 dBm

Reference 5.0 MHz 14 dBm

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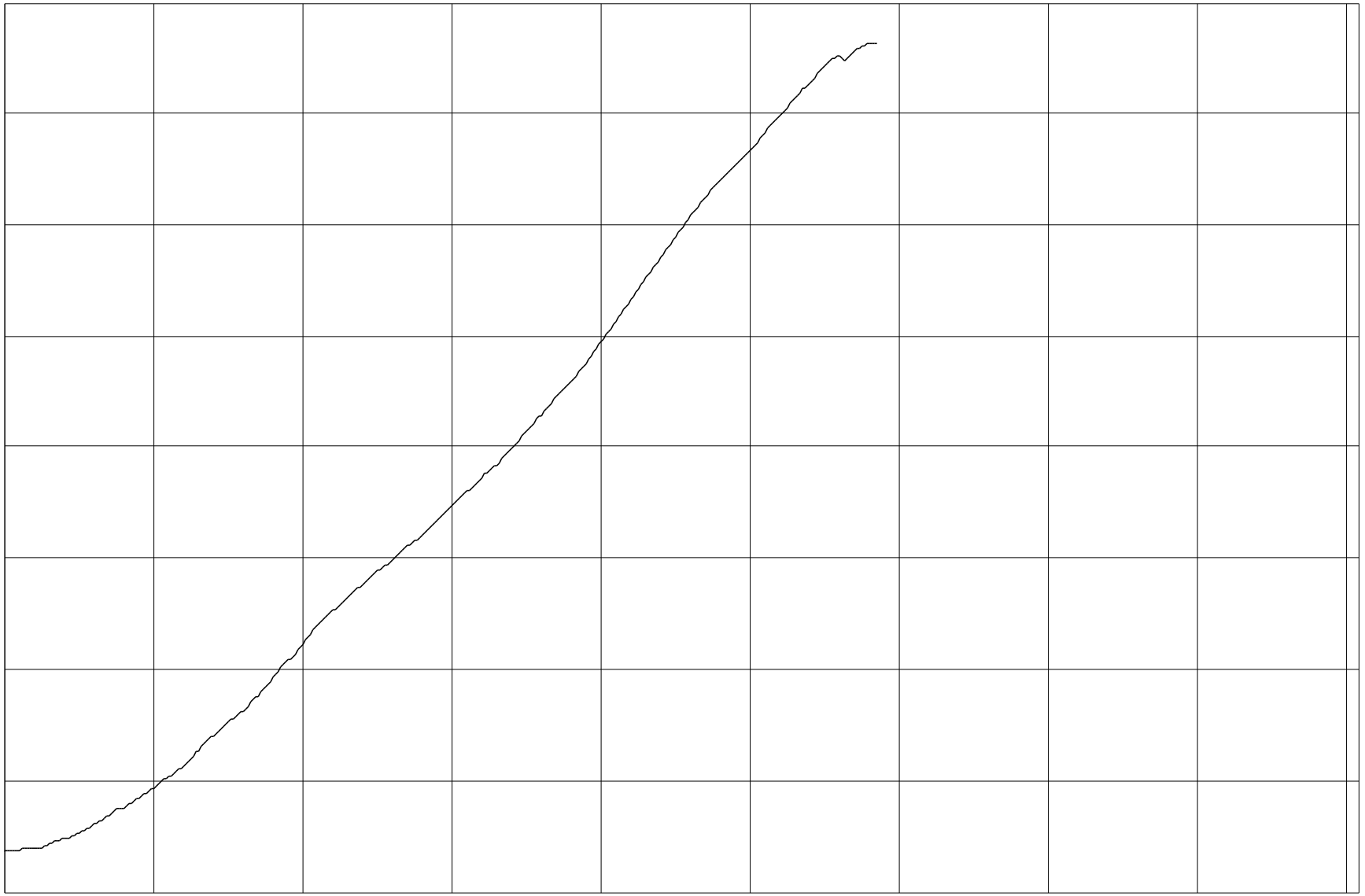
TSC 5120A

Phase Difference

8.0x10^{-07} s/div

Center: 2.561x10^{-06} s



60s/div

Input 14.1 MHz 8 dBm

Reference 5.0 MHz 14 dBm

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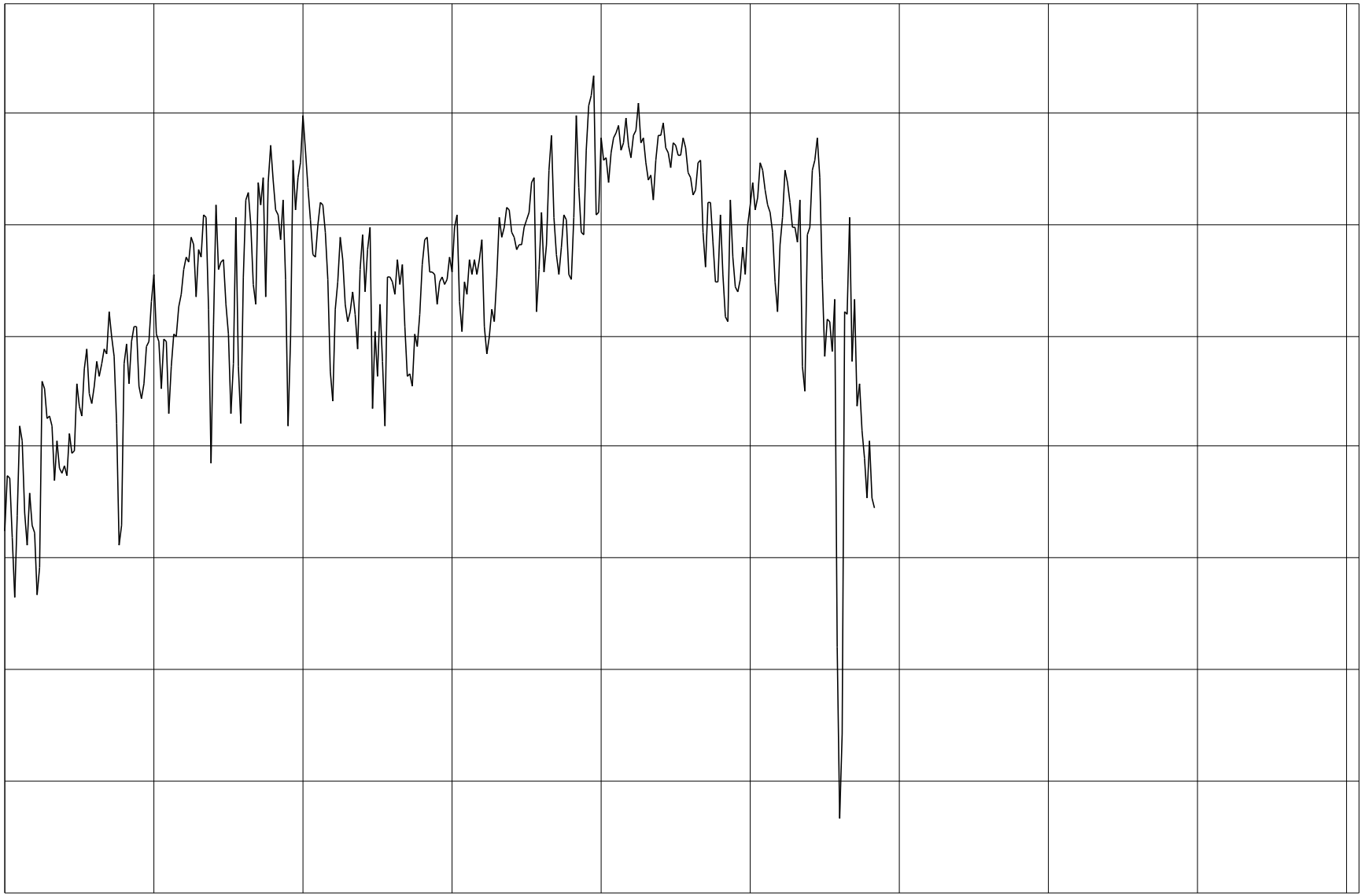
6m

TSC 5120A

Frequency Difference

7.0x10^{-09} /div

Center: 6.415x10^{-09}



60s/div

Input 14.1 MHz 8 dBm

Reference 5.0 MHz 14 dBm

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6m

Frequency Counter

TSC 5120A

Sample Time (s)	Frequency (MHz)
1	14.0998706167661
10	14.09987071360220
100	14.099870515031523

Reference Frequency: 5.0 MHz (auto)

Input 14.1 MHz 8 dBm

Reference 5.0 MHz 14 dBm

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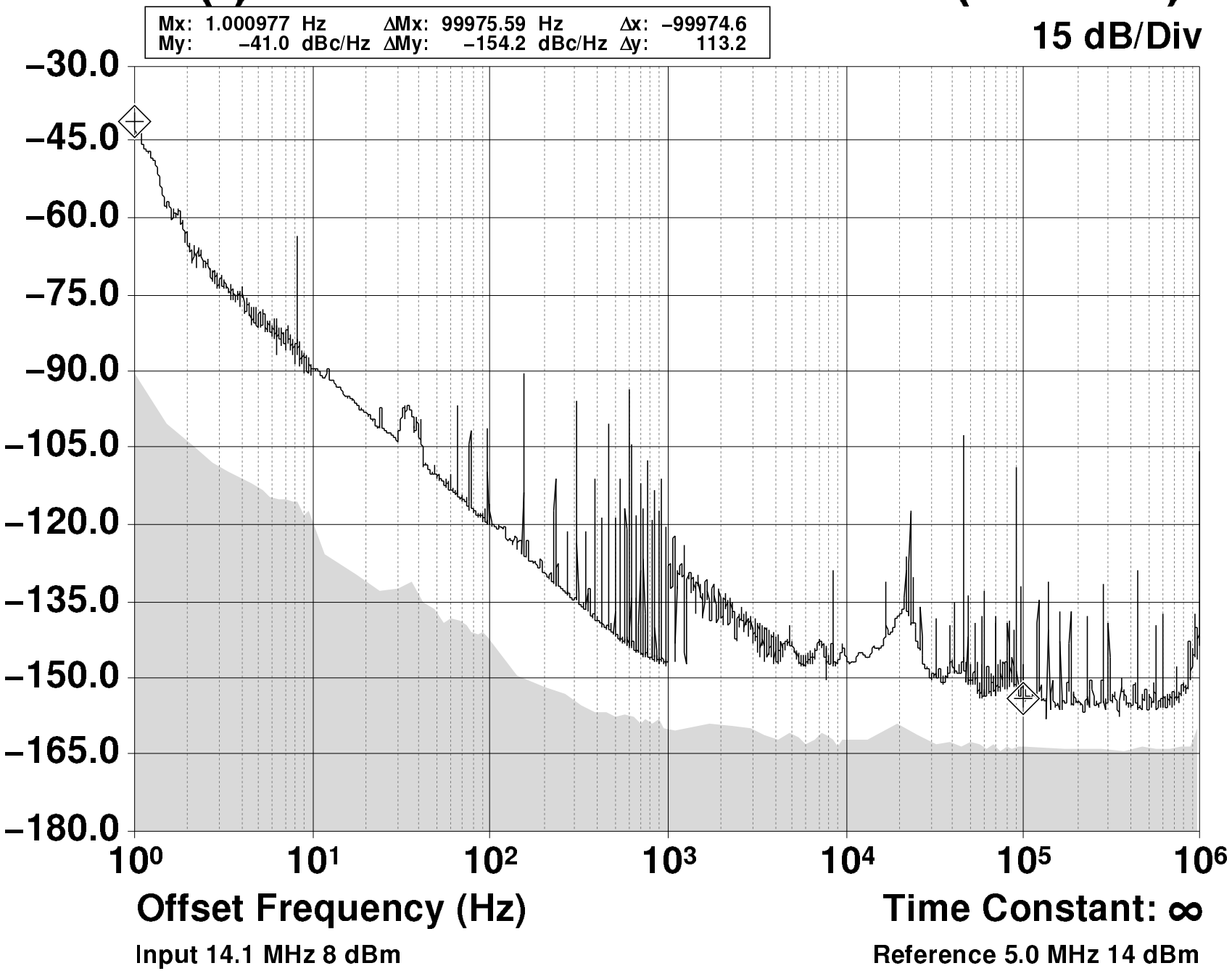
6m

TSC 5120A

$\mathcal{L}$(f) Phase Noise at 14.1 MHz (dBc/Hz)



Input 14.1 MHz 8 dBm

Reference 5.0 MHz 14 dBm