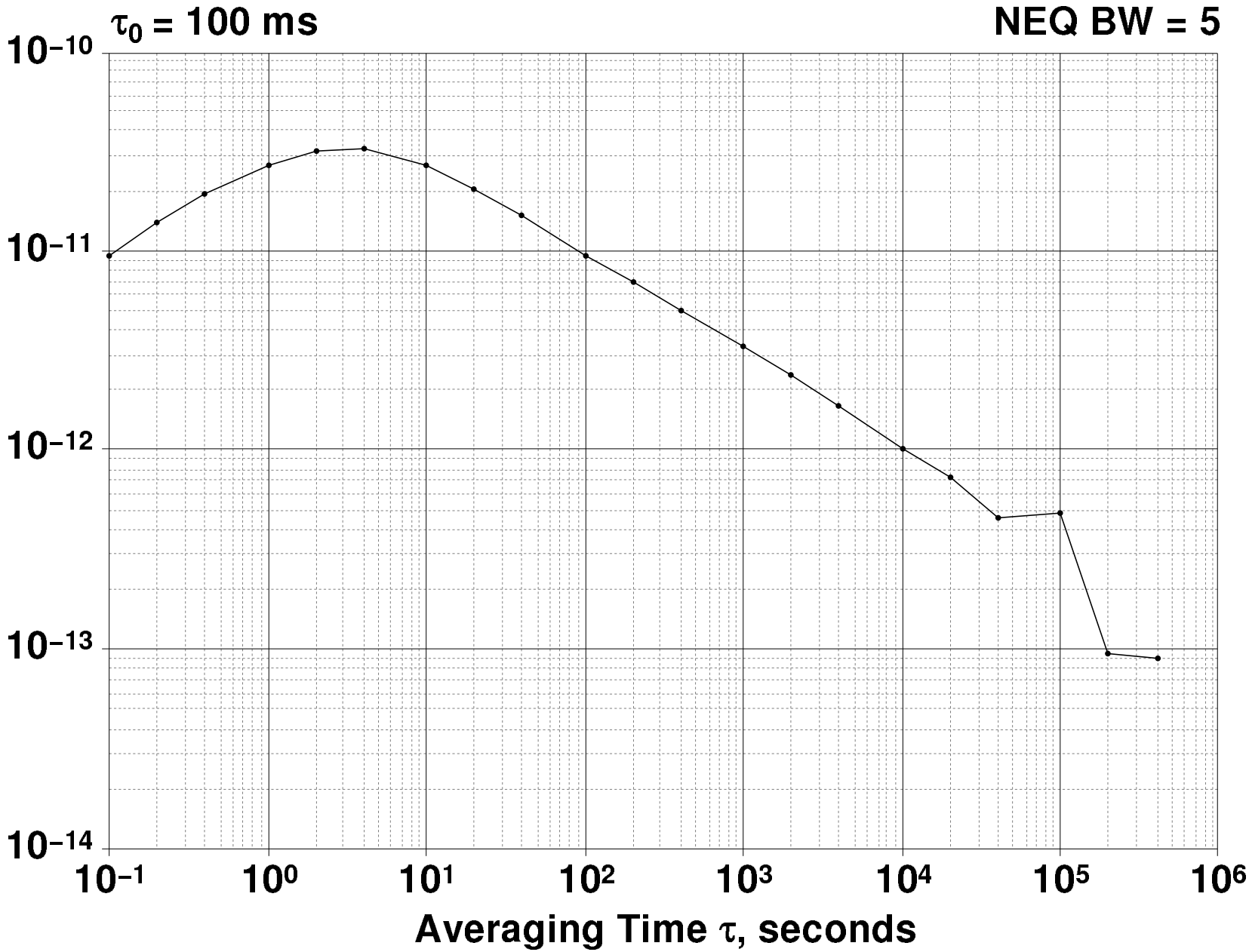
20/04/2007 16:29:39
12d 16h

TSC 5120A

Allan Deviation $\sigma_y(\tau)$



Input 5.0 MHz 14 dBm

Reference 5.0 MHz 13 dBm

20/04/2007 16:29:39
12d 16h

TSC 5120A

Allan Deviation $\sigma_y(\tau)$

τ_0 = 100 ms

NEQ BW = 5

Avg. Time (s)	Allan Deviation $\sigma_y(\tau)$
0.1	9.3136×10^{-12}
0.2	1.3803×10^{-11}
0.4	1.9102×10^{-11}
1	2.6884×10^{-11}
2	3.1493×10^{-11}
4	3.225×10^{-11}
10	2.640×10^{-11}
20	2.013×10^{-11}
40	1.491×10^{-11}
100	9.53×10^{-12}
200	6.88×10^{-12}
400	5.03×10^{-12}
1000	3.35×10^{-12}
2000	2.38×10^{-12}
4000	1.65×10^{-12}
10000	1.02×10^{-12}
20000	7.2×10^{-13}
40000	4.5×10^{-13}
100000	4.9×10^{-13}
200000	9.6×10^{-14}
400000	9.0×10^{-14}

Input 5.0 MHz 14 dBm

Reference 5.0 MHz 13 dBm

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TSC 5120A

Phase Difference

4.0x10^{-09} s/div

Center: –5.227979x10^{-05} s

60s/div

Input 5.0 MHz 14 dBm

Reference 5.0 MHz 13 dBm

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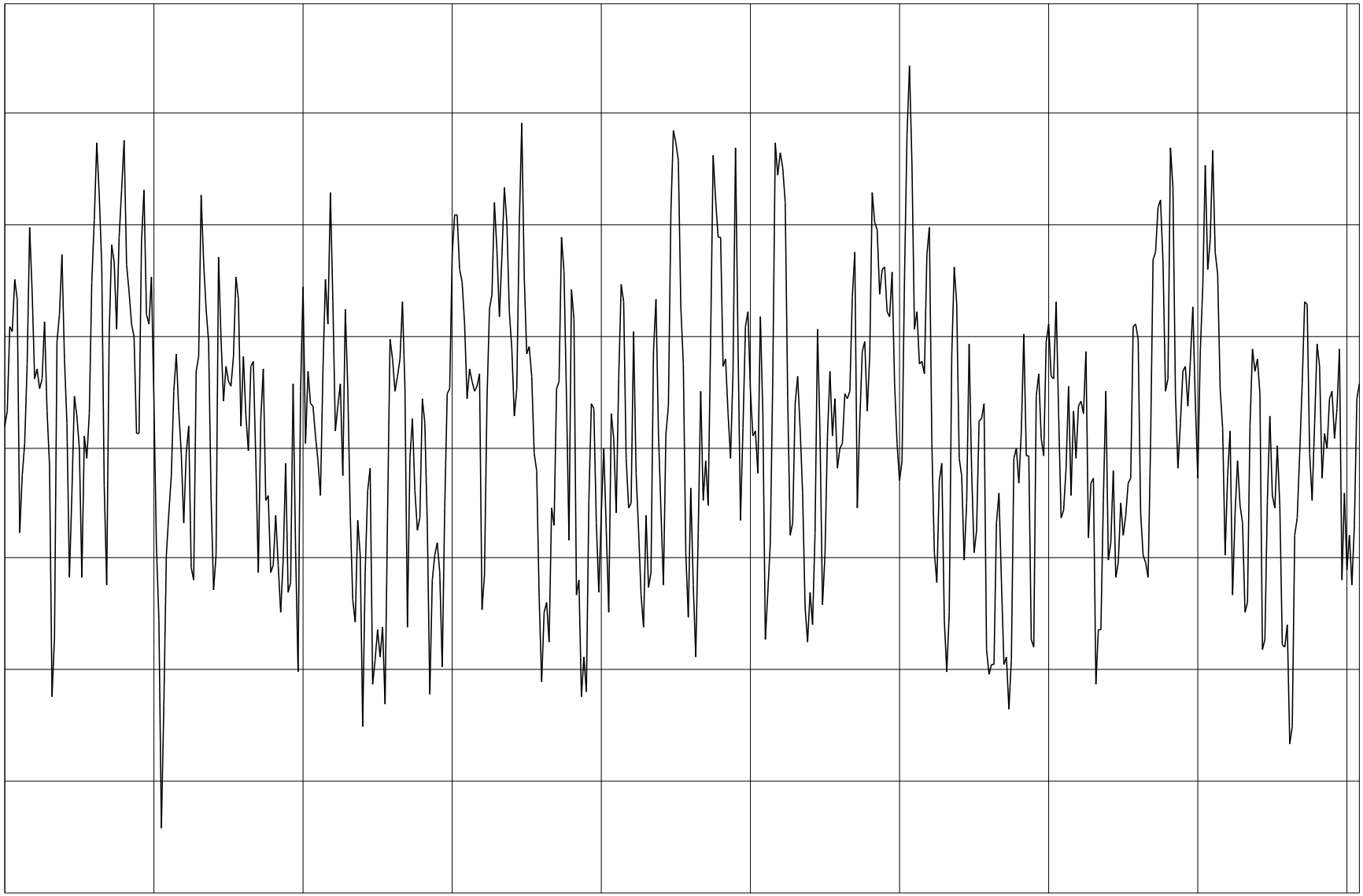
Frequency Difference

4.0x10^{-11} /div

Center: –5.060x10^{-11}



60s/div

Input 5.0 MHz 14 dBm

Reference 5.0 MHz 13 dBm

Frequency Counter

Sample Time (s)	Frequency (MHz)
1	4.9999999998682
10	5.00000000012958
100	5.000000000034644
1000	4.999999999974685

Reference Frequency: 5.0 MHz (auto)

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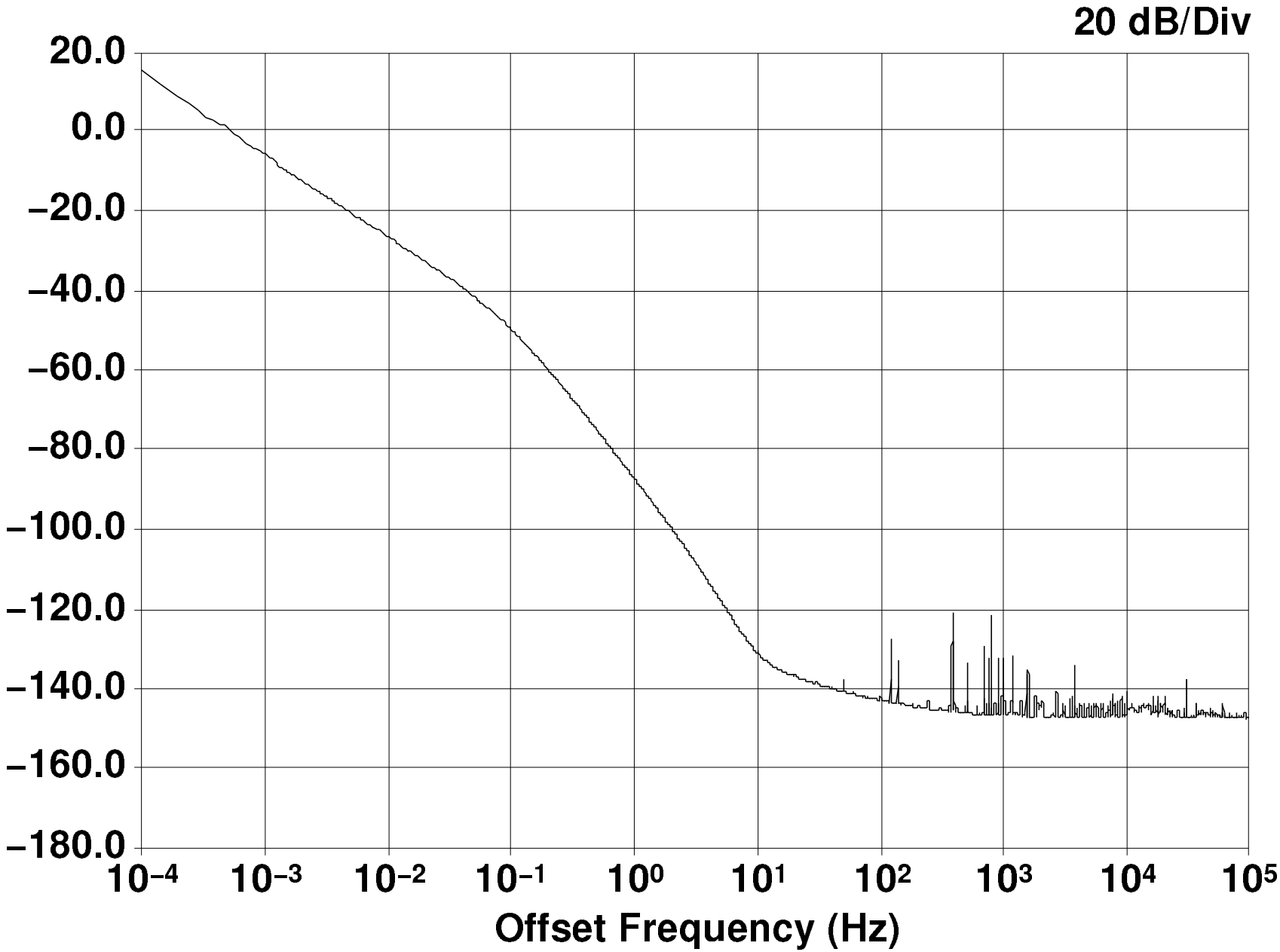
ℒ(f) Phase Noise at 5.0 MHz (dBc/Hz)



Input 5.0 MHz 14 dBm

Reference 5.0 MHz 13 dBm