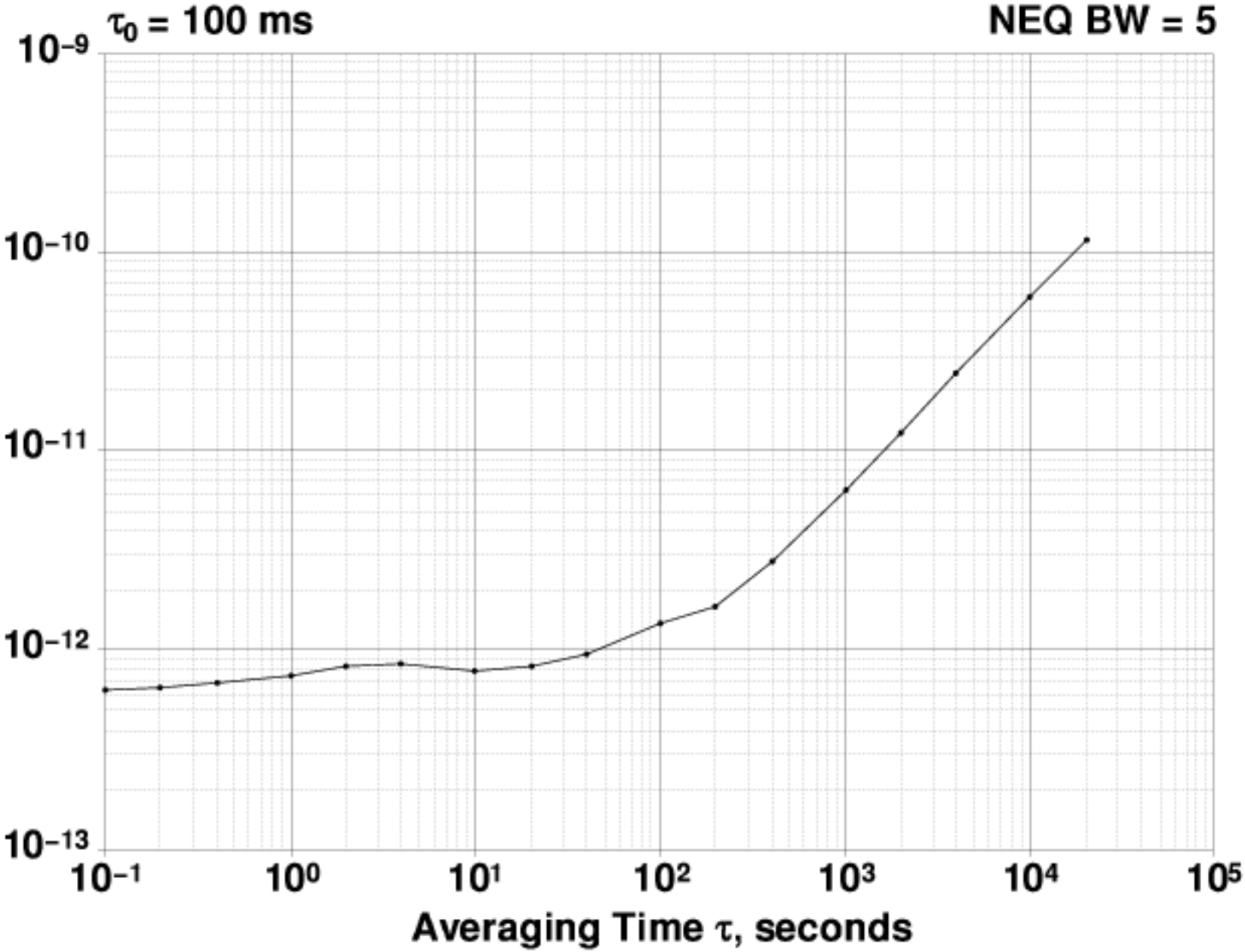
24/03/2007 13:03:48
17h 43m

TSC 5120A

Allan Deviation $\sigma_y(\tau)$



Input 10.0 MHz 3 dBm

Reference 5.0 MHz 13 dBm

Allan Deviation $\sigma_y(\tau)$

τ_0 = 100 ms

Avg. Time (s)	Allan Deviation $\sigma_y(\tau)$
0.1	6.344×10^{-13}
0.2	6.547×10^{-13}
0.4	6.773×10^{-13}
1	7.385×10^{-13}
2	8.217×10^{-13}
4	8.60×10^{-13}
10	7.82×10^{-13}
20	8.32×10^{-13}
40	9.40×10^{-13}
100	1.35×10^{-12}
200	1.64×10^{-12}
400	2.80×10^{-12}
1000	6.4×10^{-12}
2000	1.24×10^{-11}
4000	2.4×10^{-11}
10000	5.8×10^{-11}
20000	1.1×10^{-10}

NEQ BW = 5

Input 10.0 MHz 3 dBm

Reference 5.0 MHz 13 dBm

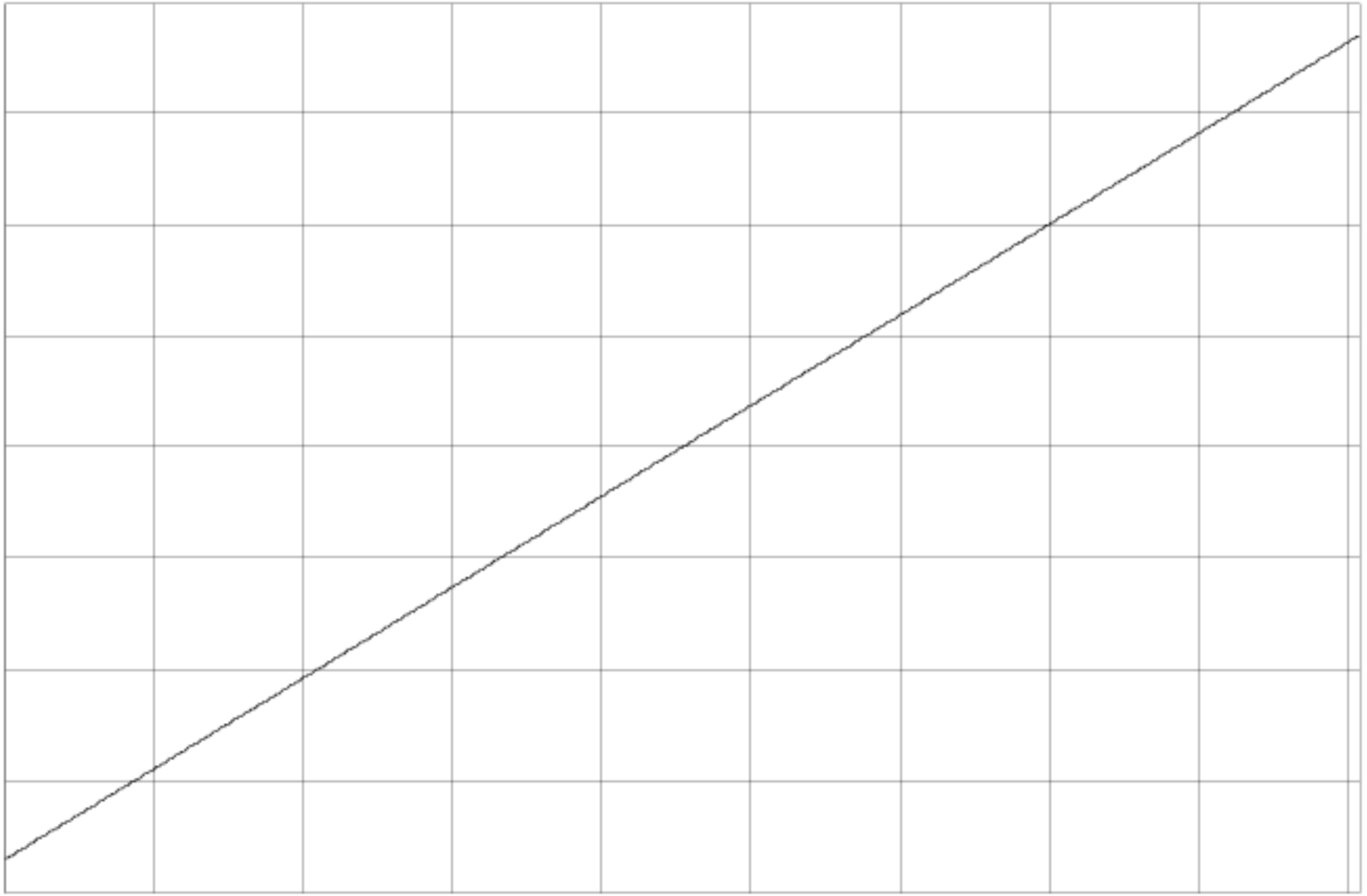
24/03/2007 13:03:48
17h 43m

TSC 5120A

Phase Difference

4.0x10^{-08} s/div

Center: 1.87092x10^{-05} s



60s/div

Input 10.0 MHz 3 dBm

Reference 5.0 MHz 13 dBm

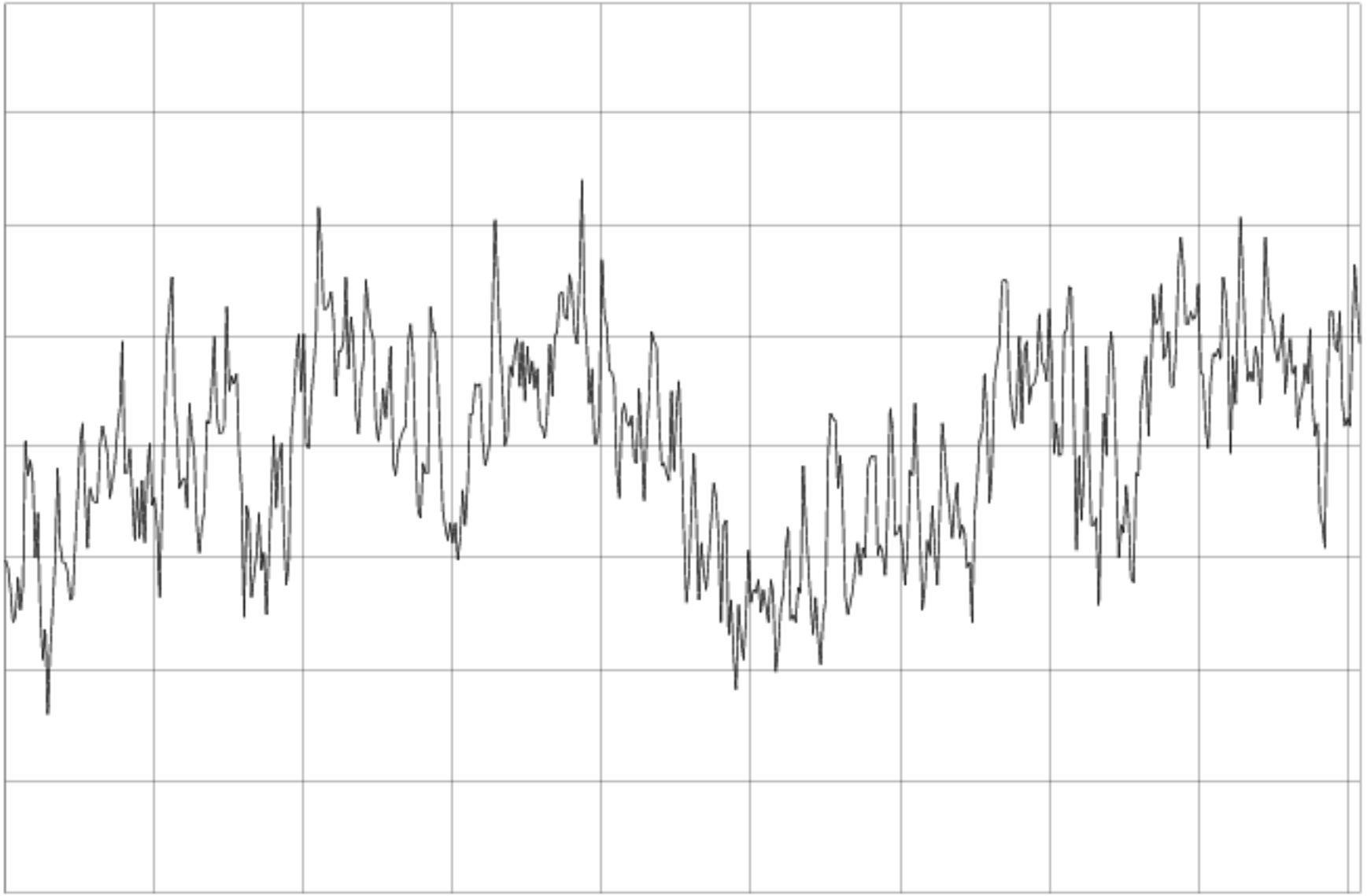
24/03/2007 13:03:48
17h 43m

TSC 5120A

Frequency Difference

2.0x10^{-12} /div

Center: 5.4252x10^{-10}



60s/div

Input 10.0 MHz 3 dBm

Reference 5.0 MHz 13 dBm

Frequency Counter

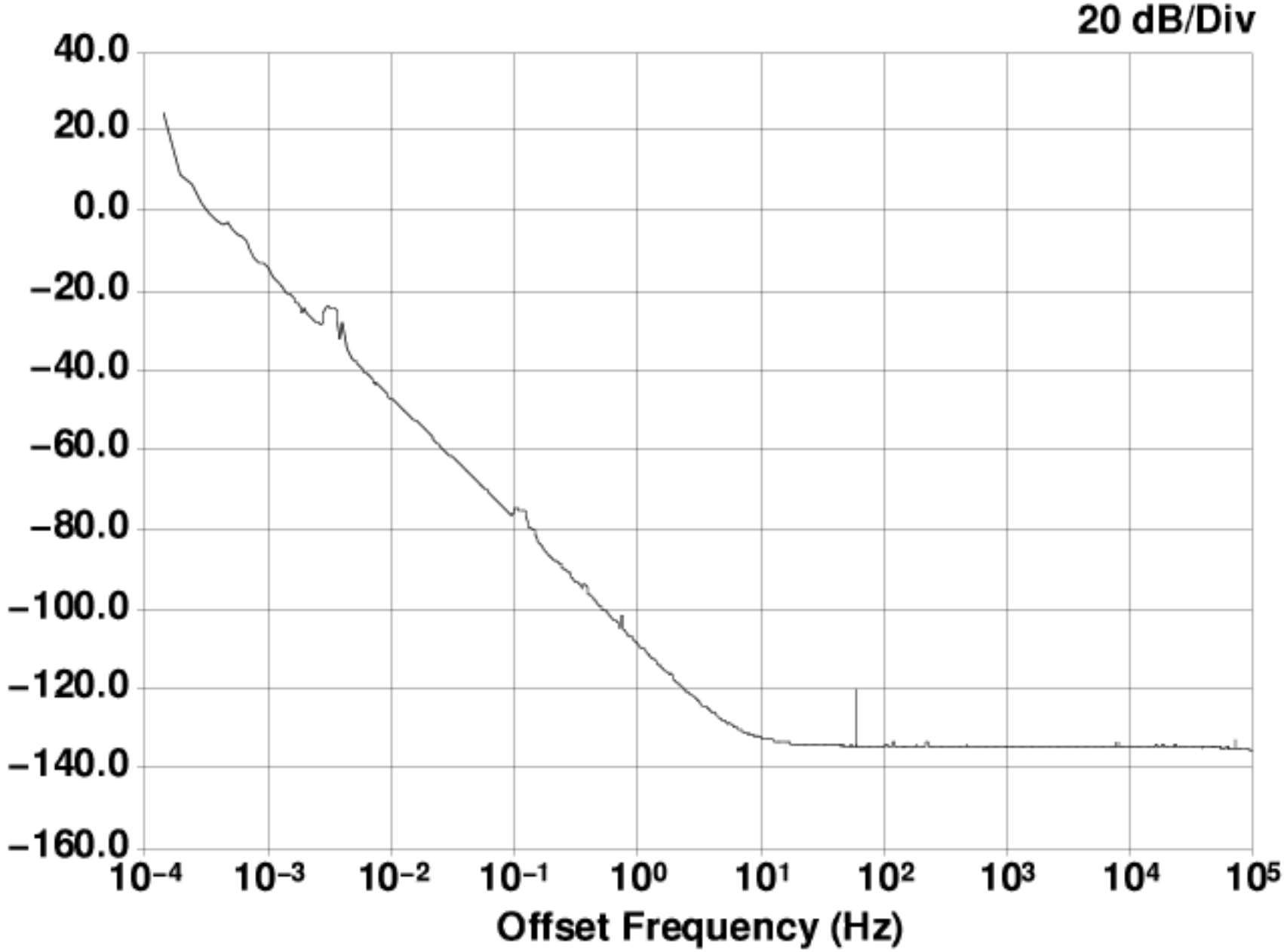
Sample Time (s)	Frequency (MHz)
1	9.9999998466047
10	9.99999984658944
100	9.999999846584848
1000	9.999999846605836

Reference Frequency: 5.0 MHz (auto)

24/03/2007 13:03:48
17h 43m

TSC 5120A

ℒ(f) Phase Noise at 10.0 MHz (dBc/Hz)



Input 10.0 MHz 3 dBm

Reference 5.0 MHz 13 dBm