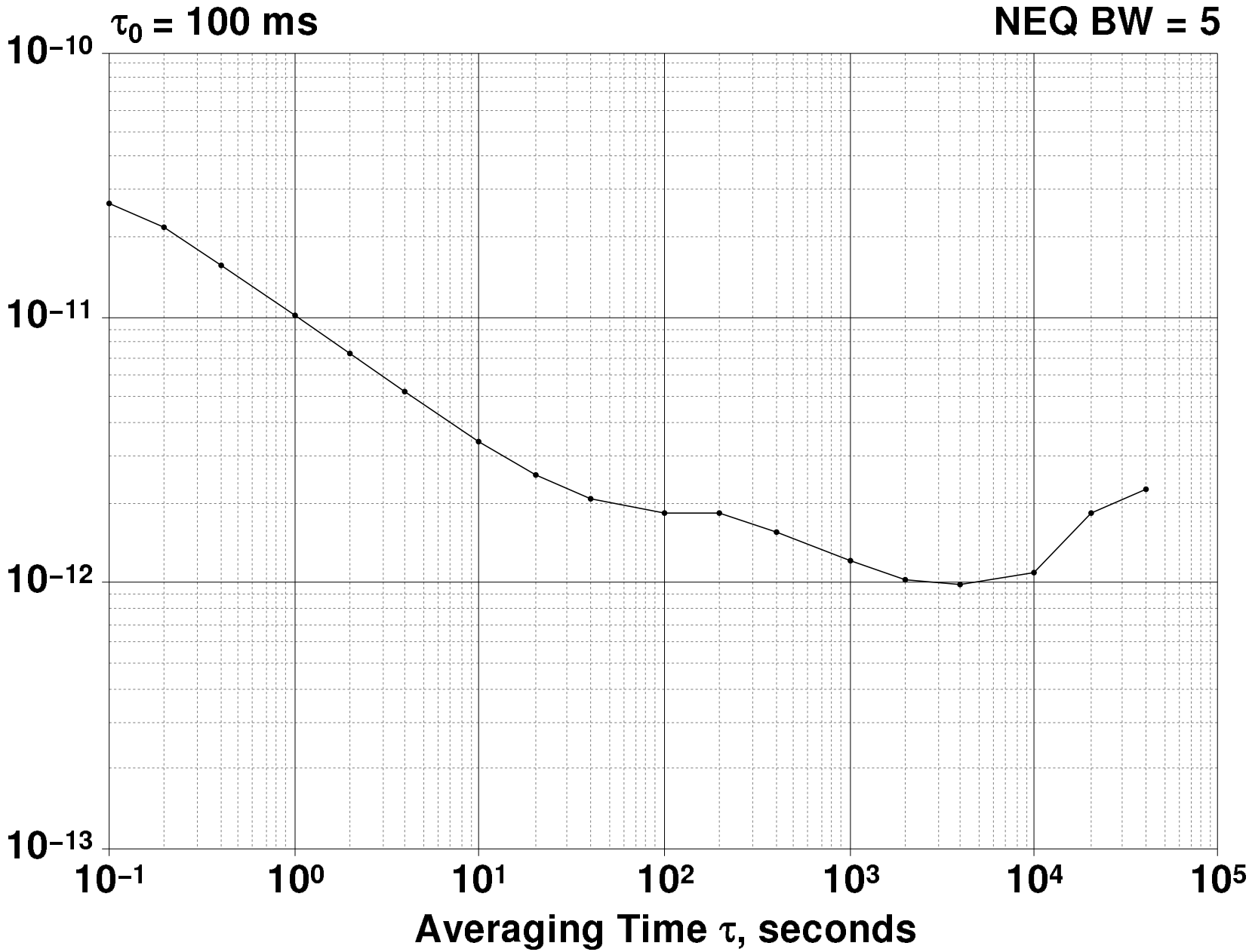
06/03/2007 23:57:33
2d 1h

TSC 5120A

Allan Deviation $\sigma_y(\tau)$



Input 10.0 MHz 6 dBm

Reference 5.0 MHz 13 dBm

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2d 1h

TSC 5120A

Allan Deviation $\sigma_y(\tau)$

τ_0 = 100 ms

NEQ BW = 5

Avg. Time (s)	Allan Deviation $\sigma_y(\tau)$
0.1	2.6759×10^{-11}
0.2	2.1585×10^{-11}
0.4	1.5751×10^{-11}
1	1.0197×10^{-11}
2	7.293×10^{-12}
4	5.188×10^{-12}
10	3.383×10^{-12}
20	2.553×10^{-12}
40	2.092×10^{-12}
100	1.847×10^{-12}
200	1.82×10^{-12}
400	1.54×10^{-12}
1000	1.22×10^{-12}
2000	1.02×10^{-12}
4000	9.9×10^{-13}
10000	1.09×10^{-12}
20000	1.8×10^{-12}
40000	2.2×10^{-12}

Input 10.0 MHz 6 dBm

Reference 5.0 MHz 13 dBm

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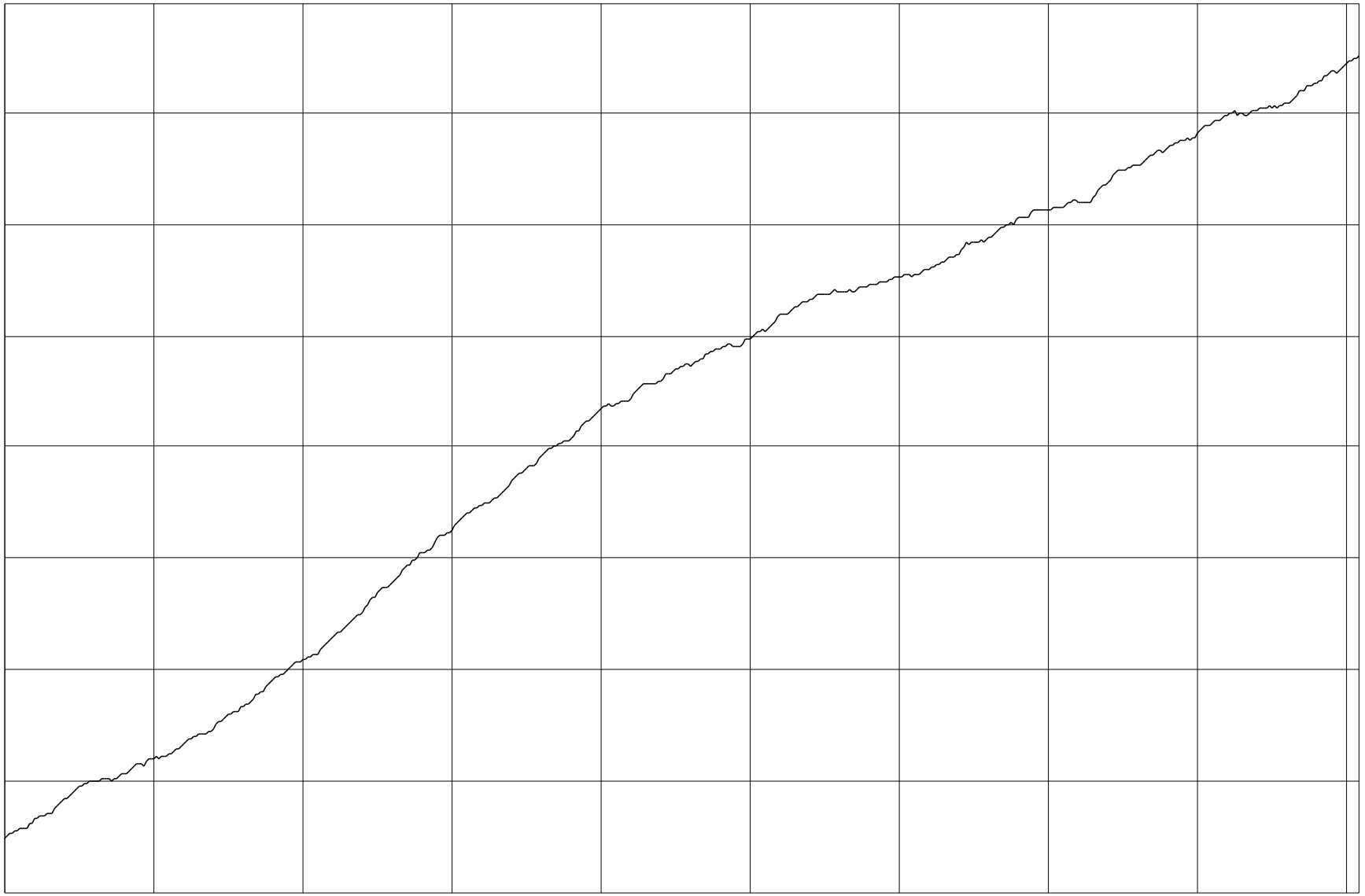
2d 1h

TSC 5120A

Phase Difference

8.0x10^{-10} s/div

Center: 1.061748x10^{-06} s



60s/div

Input 10.0 MHz 6 dBm

Reference 5.0 MHz 13 dBm

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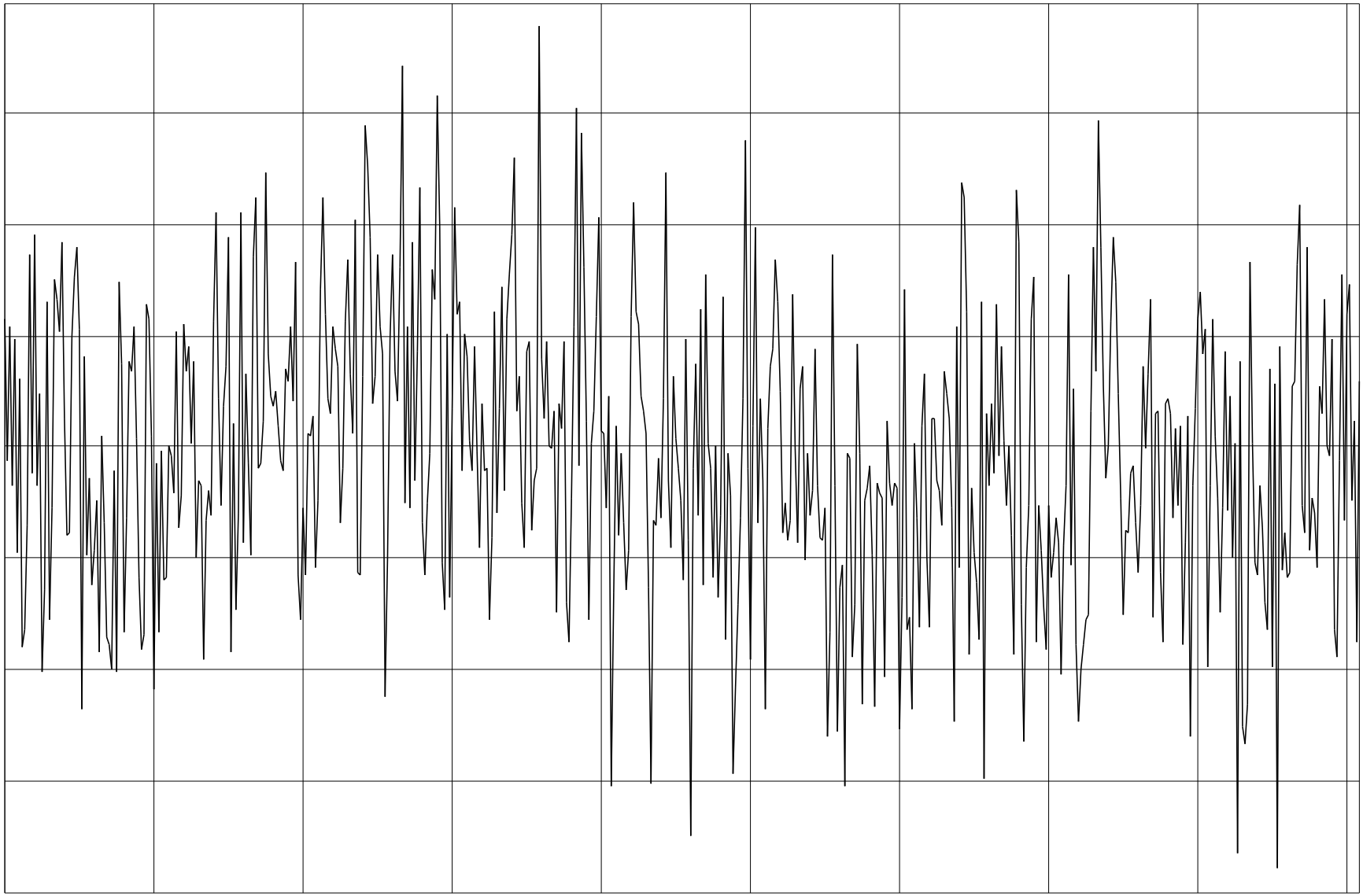
2d 1h

TSC 5120A

Frequency Difference

8.0x10^{-12} /div

Center: 1.095x10^{-11}



60s/div

Input 10.0 MHz 6 dBm

Reference 5.0 MHz 13 dBm

Frequency Counter

Sample Time (s)	Frequency (MHz)
1	10.0000000007014
10	10.00000000075096
100	10.000000000728036
1000	10.000000000697881

Reference Frequency: 5.0 MHz (auto)

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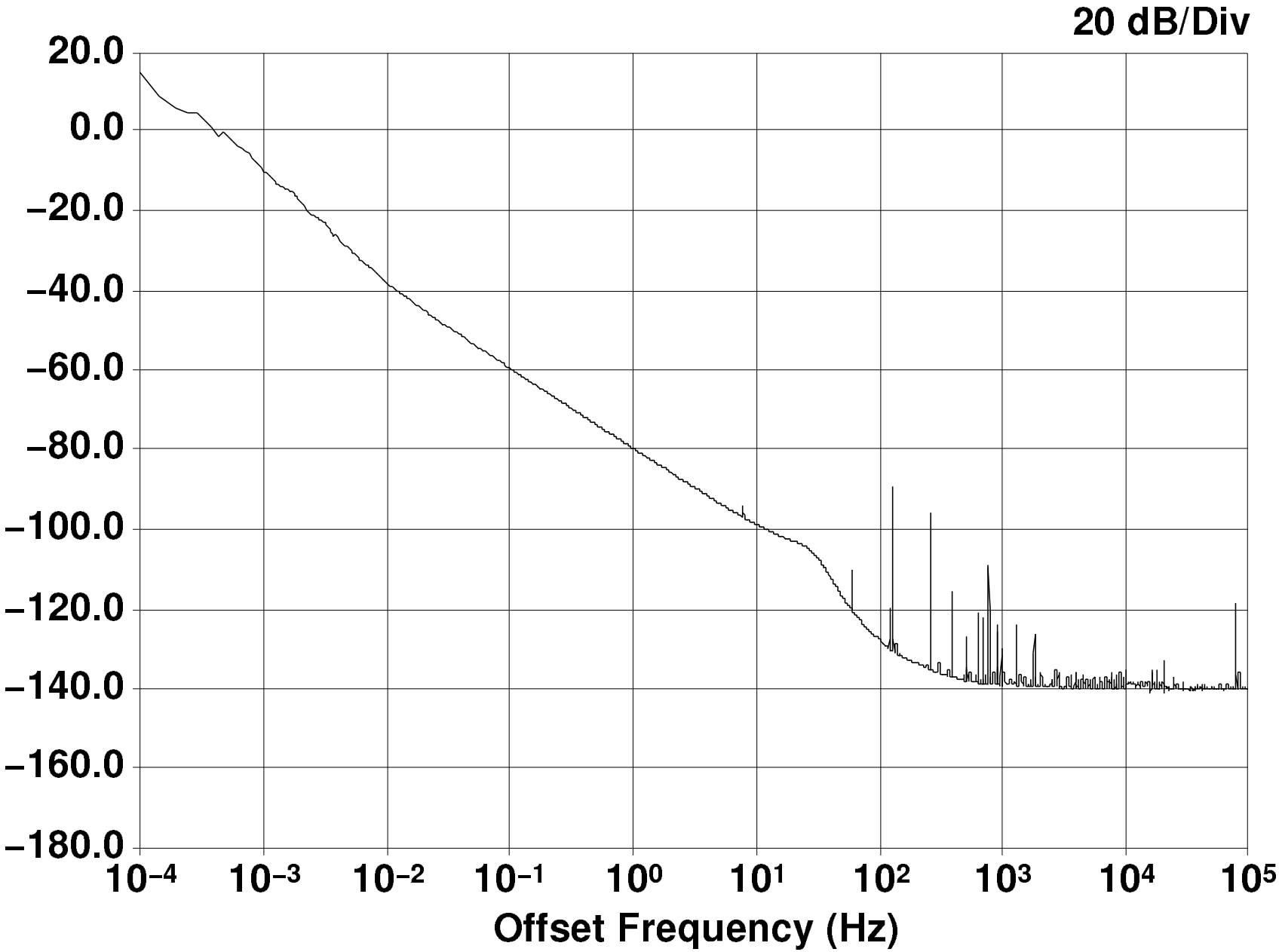
2d 1h

TSC 5120A

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



Input 10.0 MHz 6 dBm

Reference 5.0 MHz 13 dBm