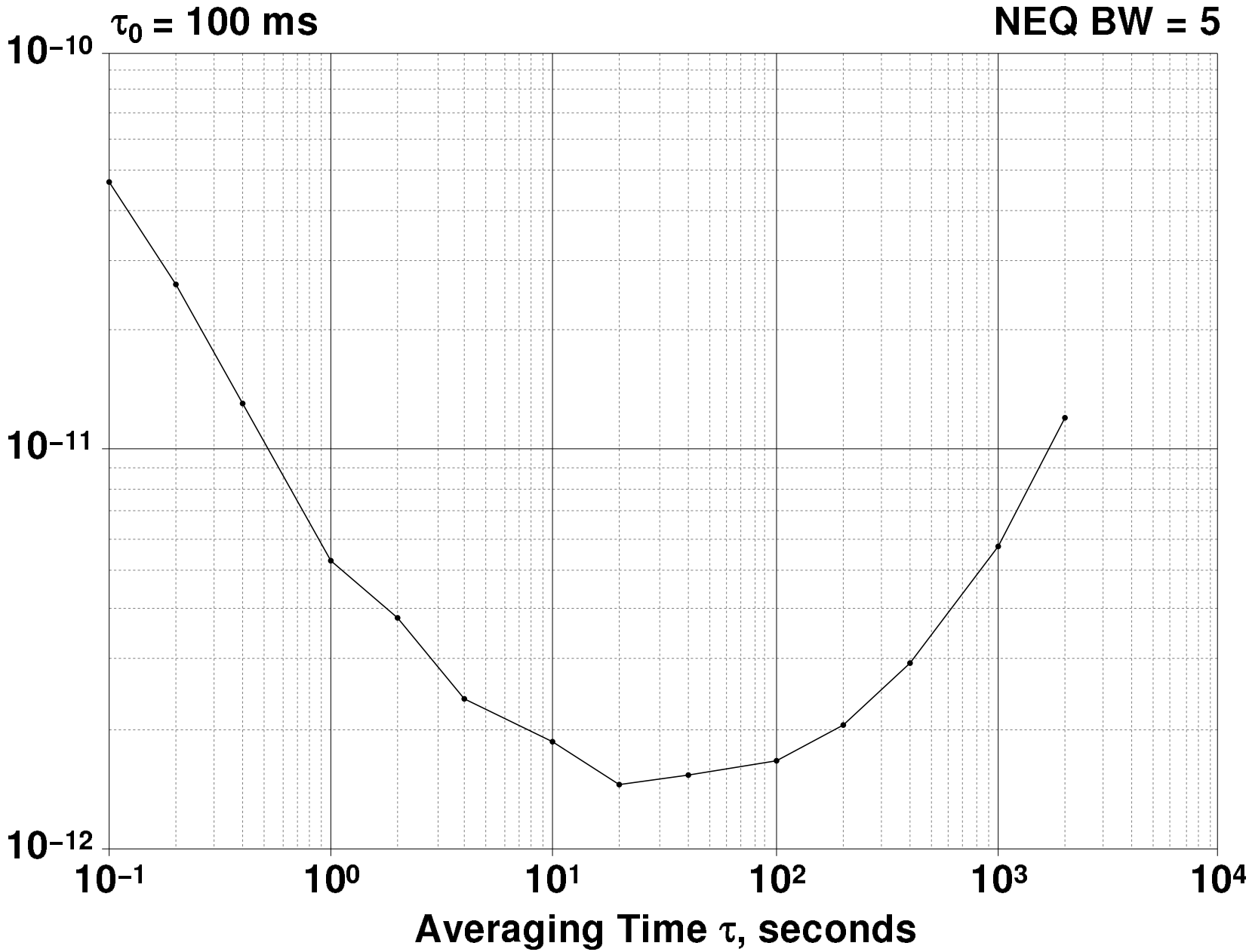
24/03/2007 15:13:48
2h 0m

TSC 5120A

Allan Deviation $\sigma_y(\tau)$



Input 5.0 MHz 13 dBm

Reference 5.0 MHz 13 dBm

24/03/2007 15:13:48
2h 0m

TSC 5120A

Allan Deviation $\sigma_y(\tau)$

τ_0 = 100 ms

Avg. Time (s)	Allan Deviation $\sigma_y(\tau)$
0.1	4.696×10^{-11}
0.2	2.610×10^{-11}
0.4	1.304×10^{-11}
1	5.30×10^{-12}
2	3.80×10^{-12}
4	2.38×10^{-12}
10	1.87×10^{-12}
20	1.45×10^{-12}
40	1.52×10^{-12}
100	1.66×10^{-12}
200	2.03×10^{-12}
400	2.9×10^{-12}
1000	5.7×10^{-12}
2000	1.2×10^{-11}

NEQ BW = 5

Input 5.0 MHz 13 dBm

Reference 5.0 MHz 13 dBm

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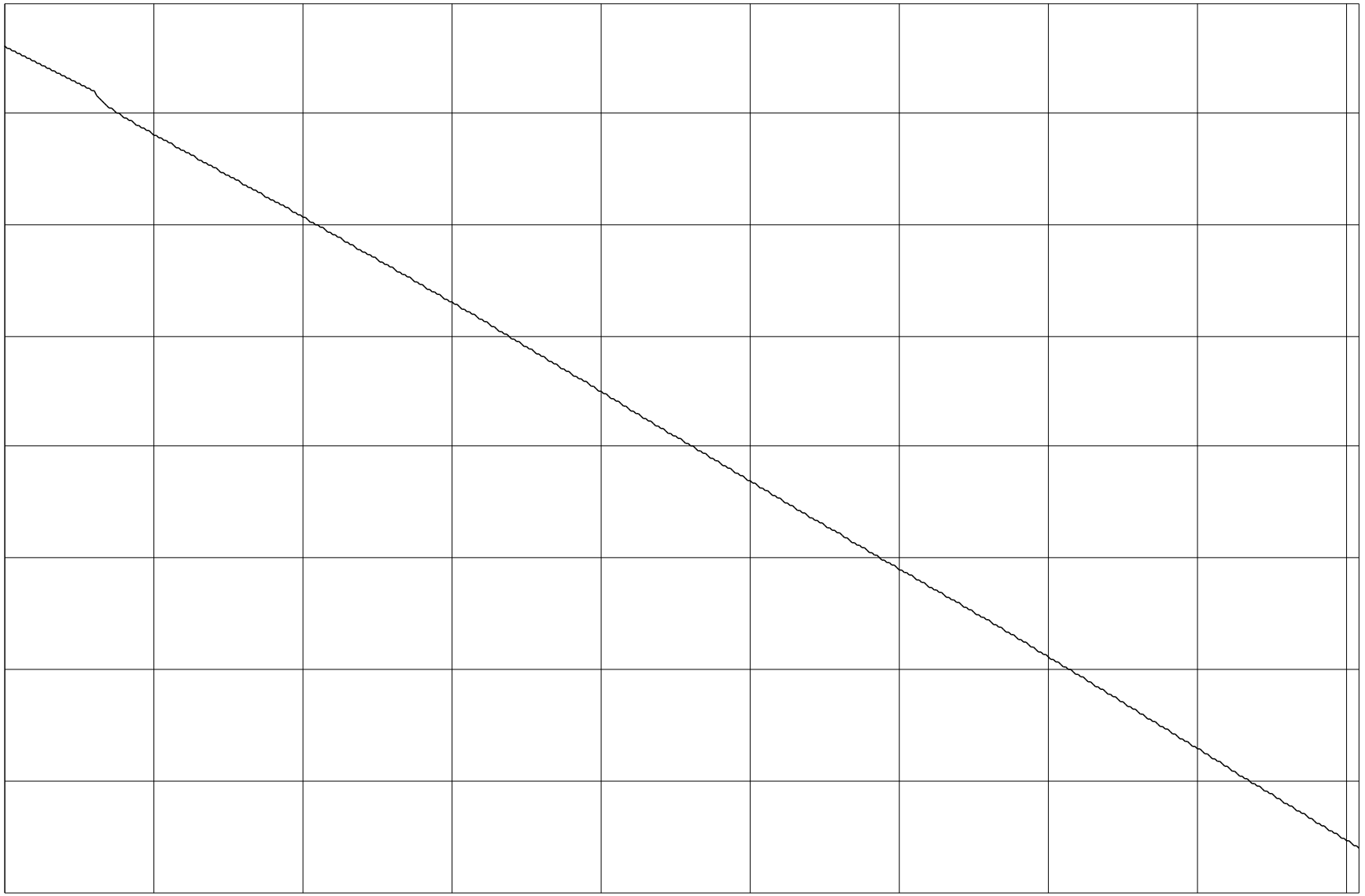
2h 0m

TSC 5120A

Phase Difference

4.0x10^{-09} s/div

Center: –1.4944x10^{-07} s



60s/div

Input 5.0 MHz 13 dBm

Reference 5.0 MHz 13 dBm

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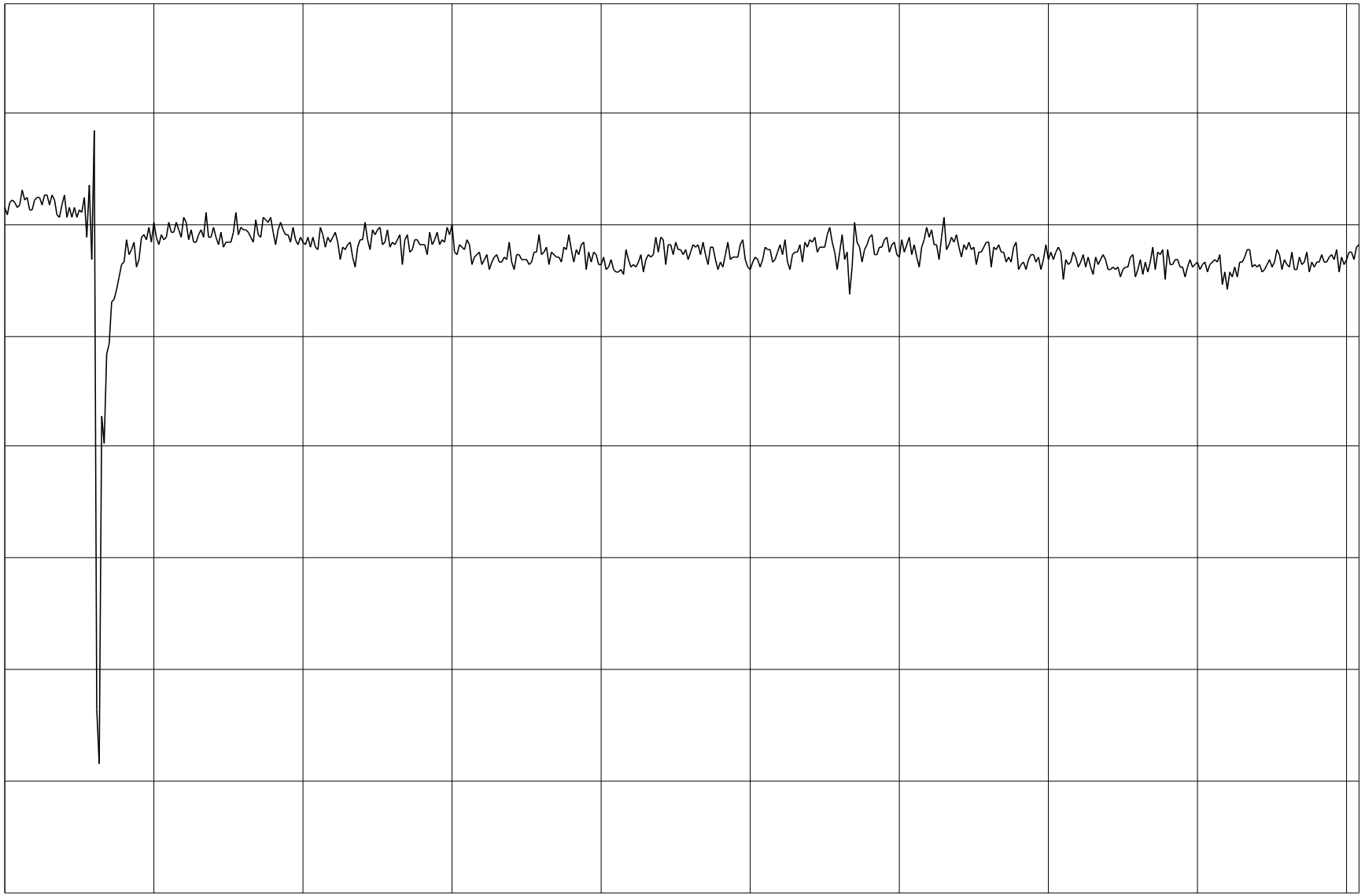
2h 0m

TSC 5120A

Frequency Difference

2.0x10^{-11} /div

Center: –8.787x10^{-11}



60s/div

Input 5.0 MHz 13 dBm

Reference 5.0 MHz 13 dBm

Frequency Counter

Sample Time (s)	Frequency (MHz)
1	5.0000001132749
10	5.00000011328071
100	5.000000113296832
1000	5.000000113264186

Reference Frequency: 5.0 MHz (auto)

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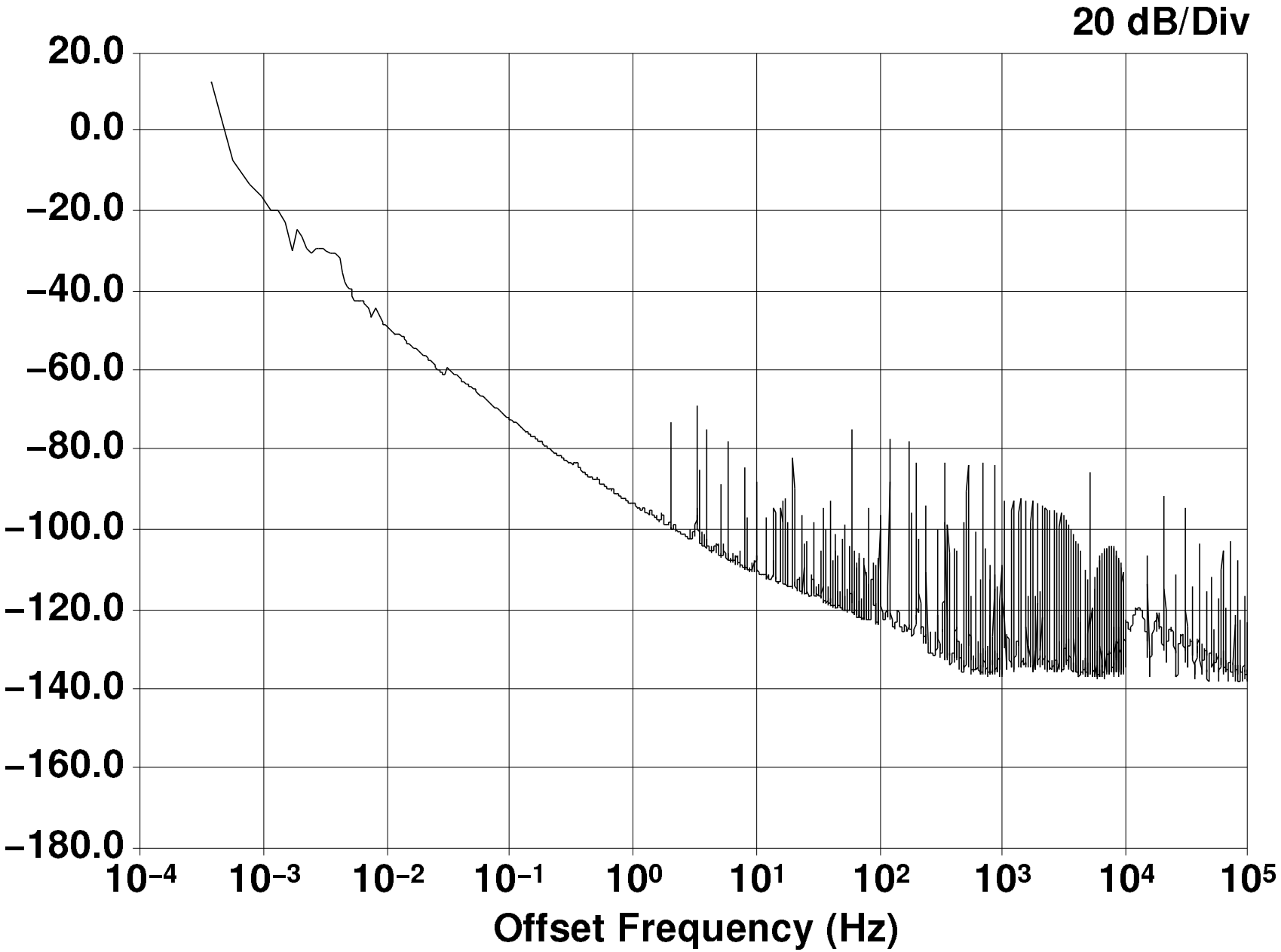
2h 0m

TSC 5120A

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



Input 5.0 MHz 13 dBm

Reference 5.0 MHz 13 dBm