

Conducted EMI results from CFL

Ver1.1

20-03-2014

Configuration Parameters for SA

Signal analyser N9000A Agilent 9Khz-7.5Ghz

- Input freq. range : 10Khz-1Mhz
- CF step size : 99Khz
- Residual BW: 30Hz
- Video BW : 30Hz
- VBW: 3-dB RBW : 1.0
- Span: 106
- RBW Control[Gaussian, -3dB]
- Sweep ~274ms [FFT : 1001Pts]
- Attenuation: 0.00dB
- AMPTD Y ref: -40dBm

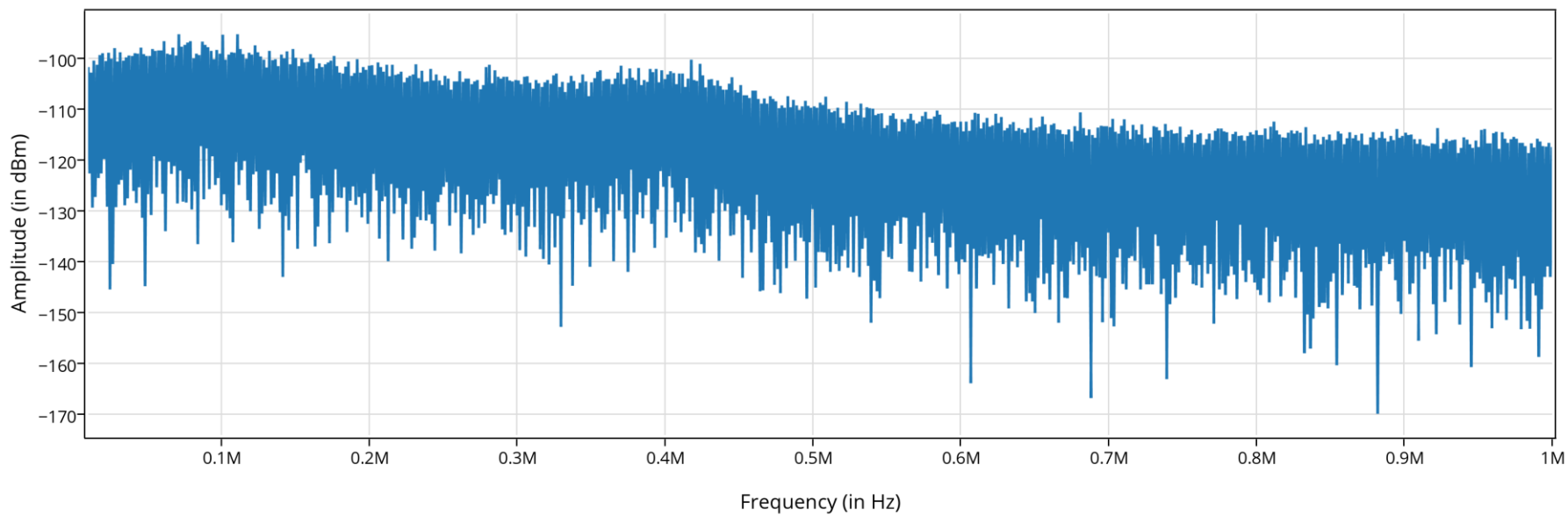
*BW Bandwidth

Hardware modifications

- HF probes Tektronix 20Mhz Input impedance of 1Mohm are used now.
- Earlier 2 CFL lights were connected as a bunch now only one to identify individual signature.

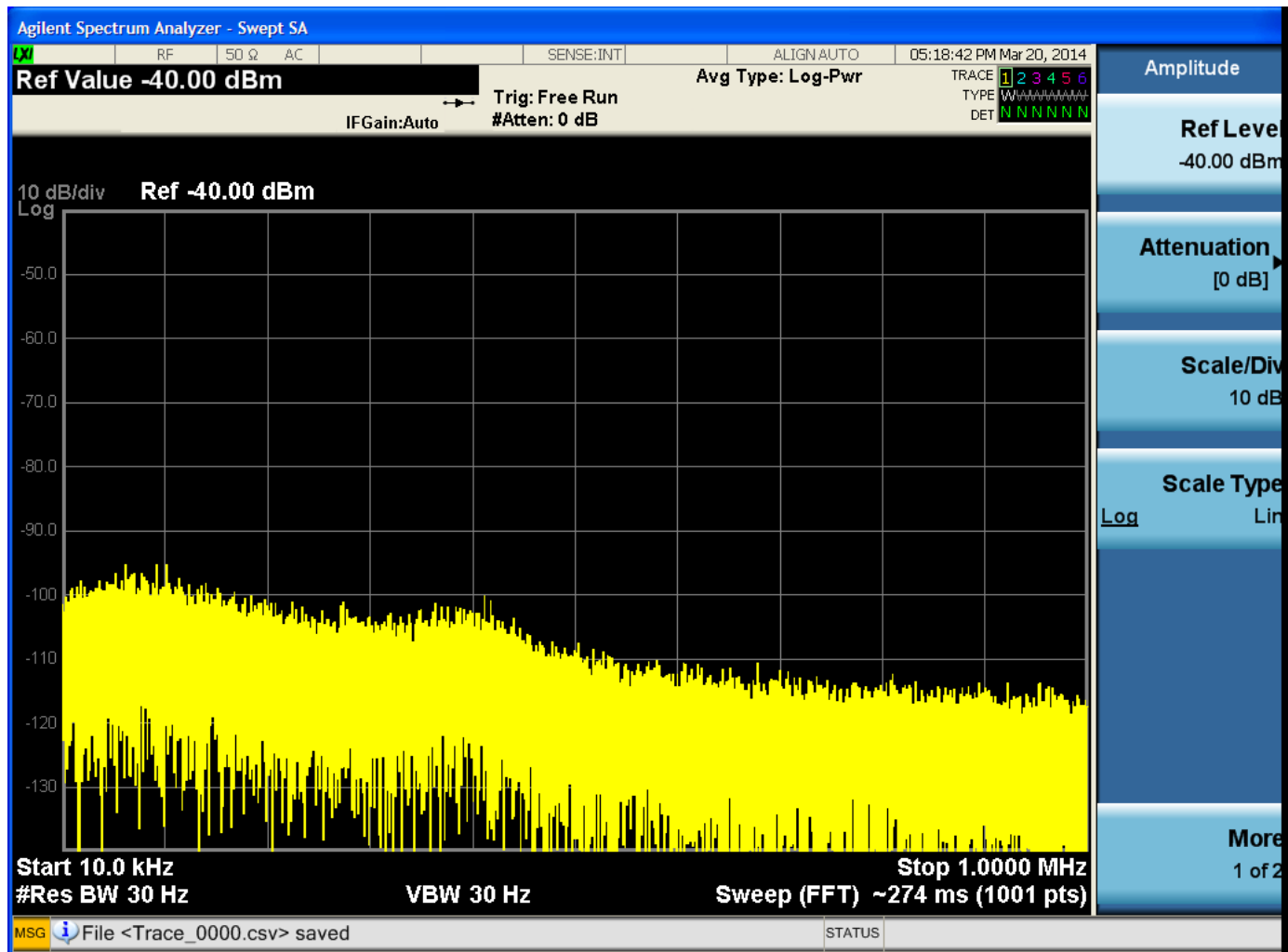
Test_00

Trace_00 without any connection to SA



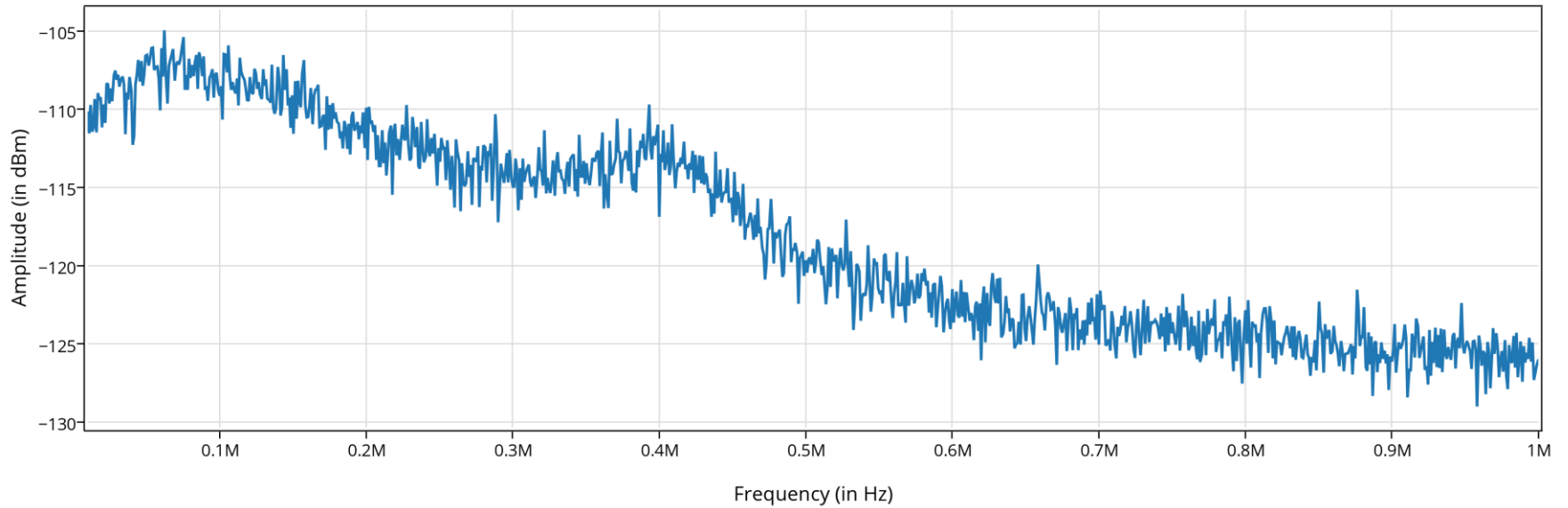
Source: Trace_00

Test_00



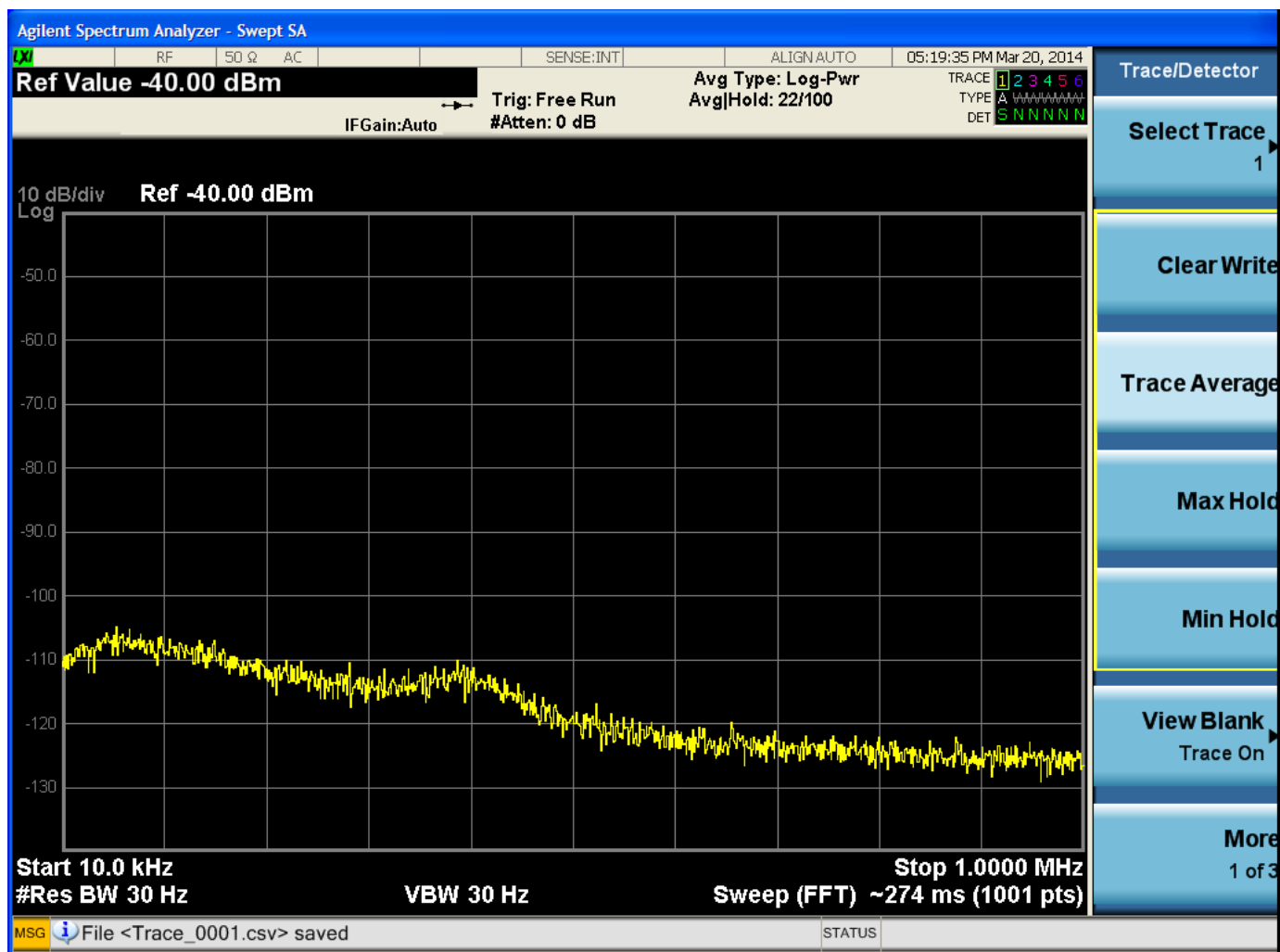
Test_01

Trace_01 without any connection to SA (Averaged)



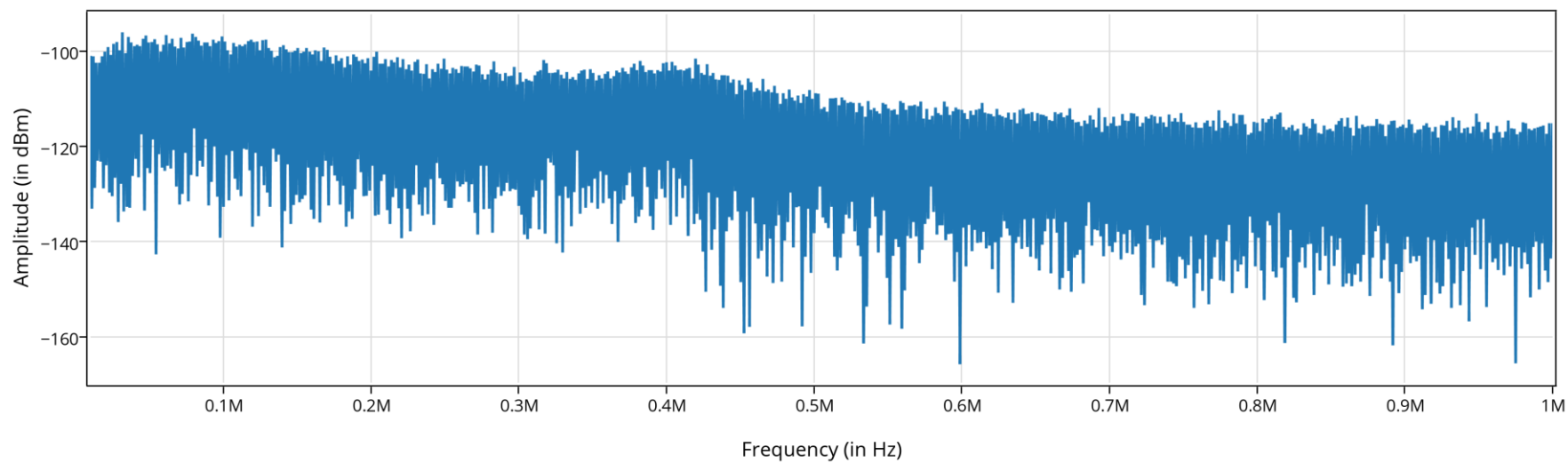
Source: Trace_01

Test_01



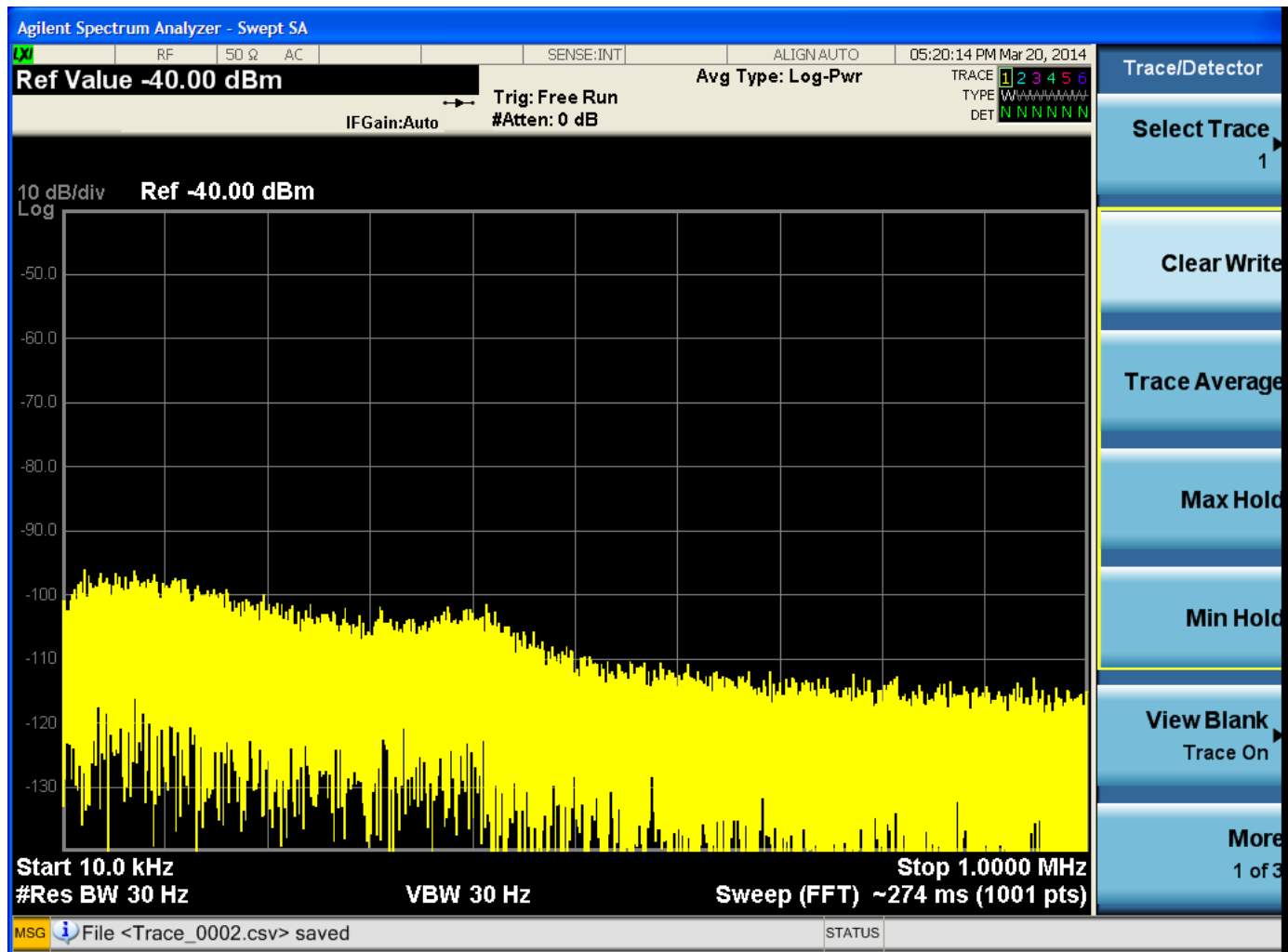
Test_02

Trace_02 with probe connected to SA o/p open ended



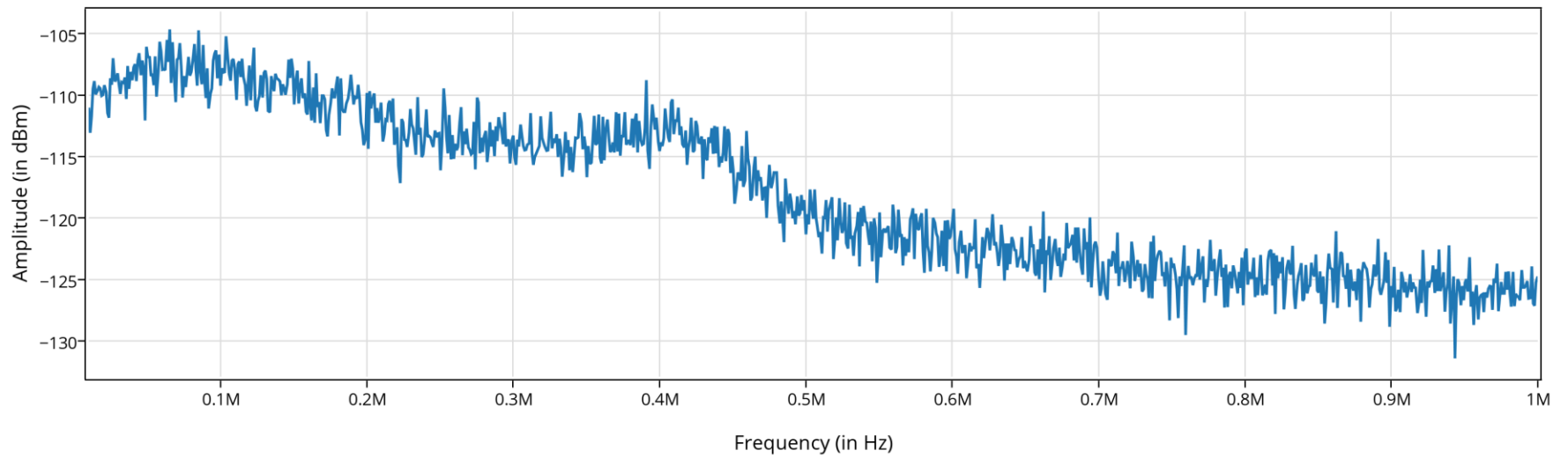
Source: Trace_02

Test_02



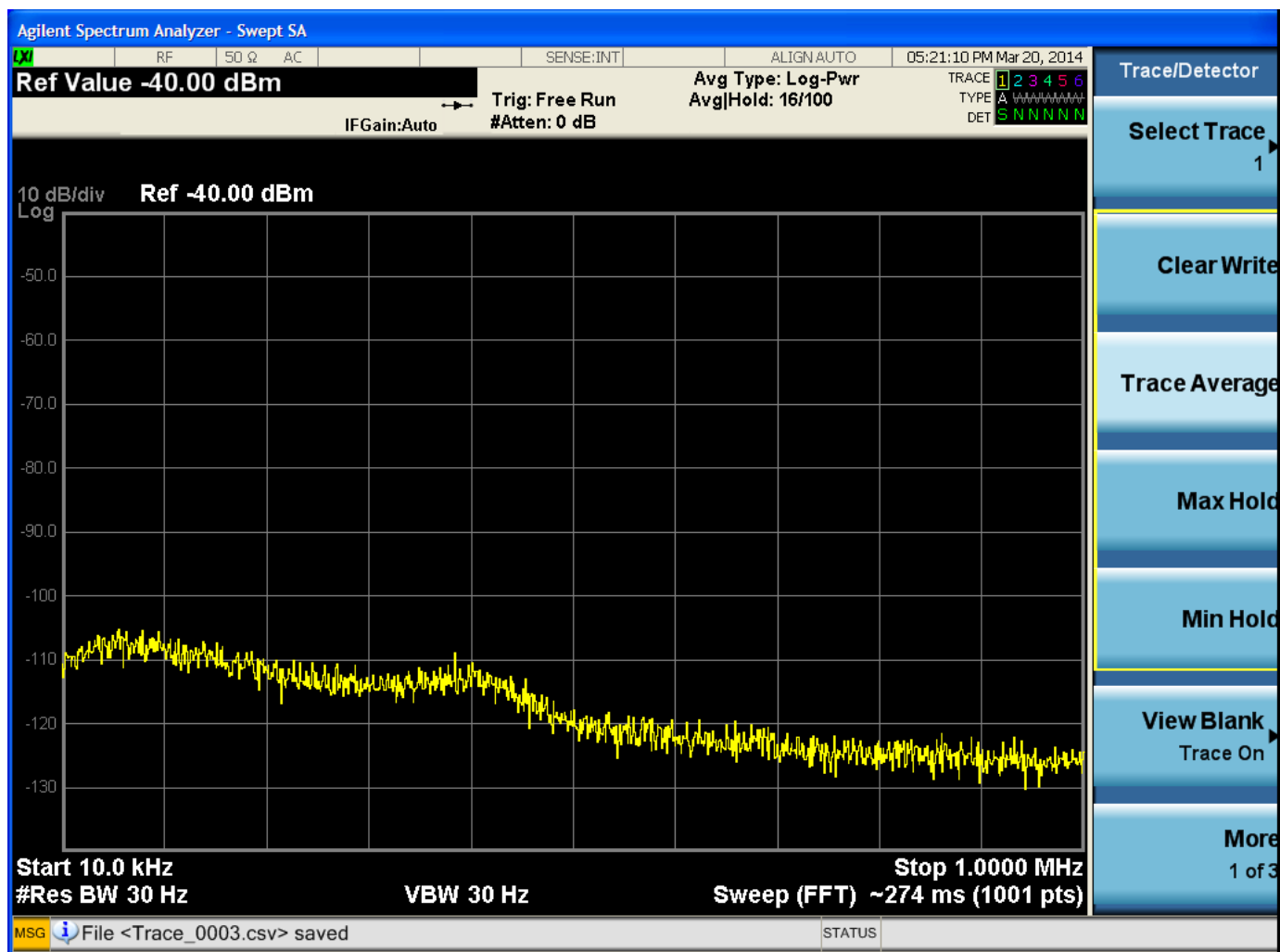
Test_03

Trace_03 with probe connected to SA o/p open ended(Averaged)



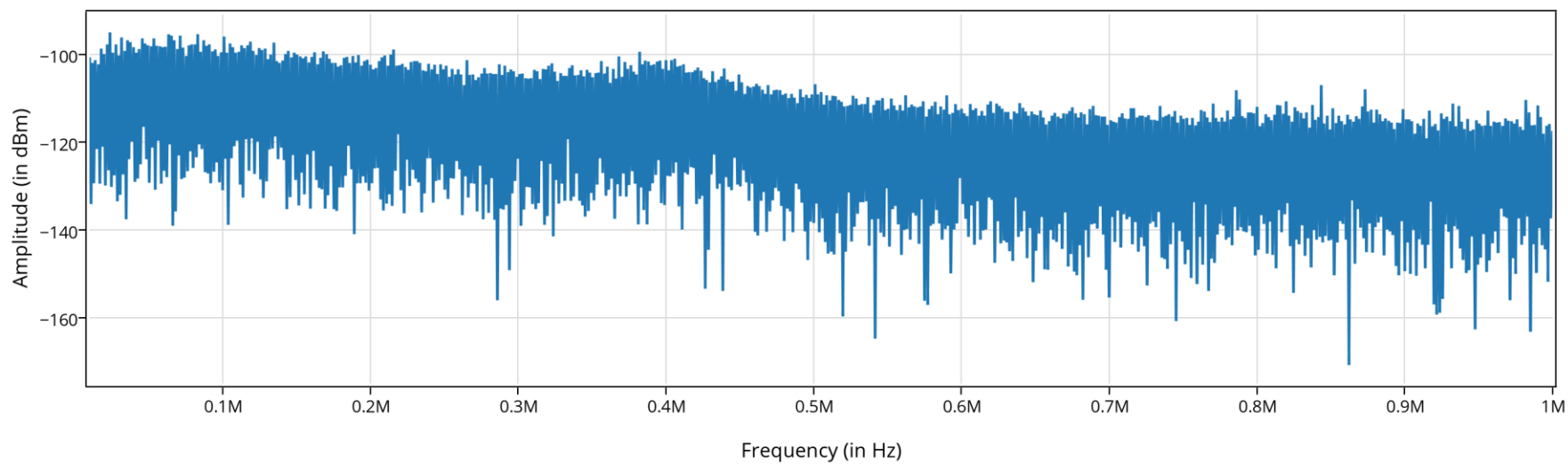
Source: Trace_03

Test_03



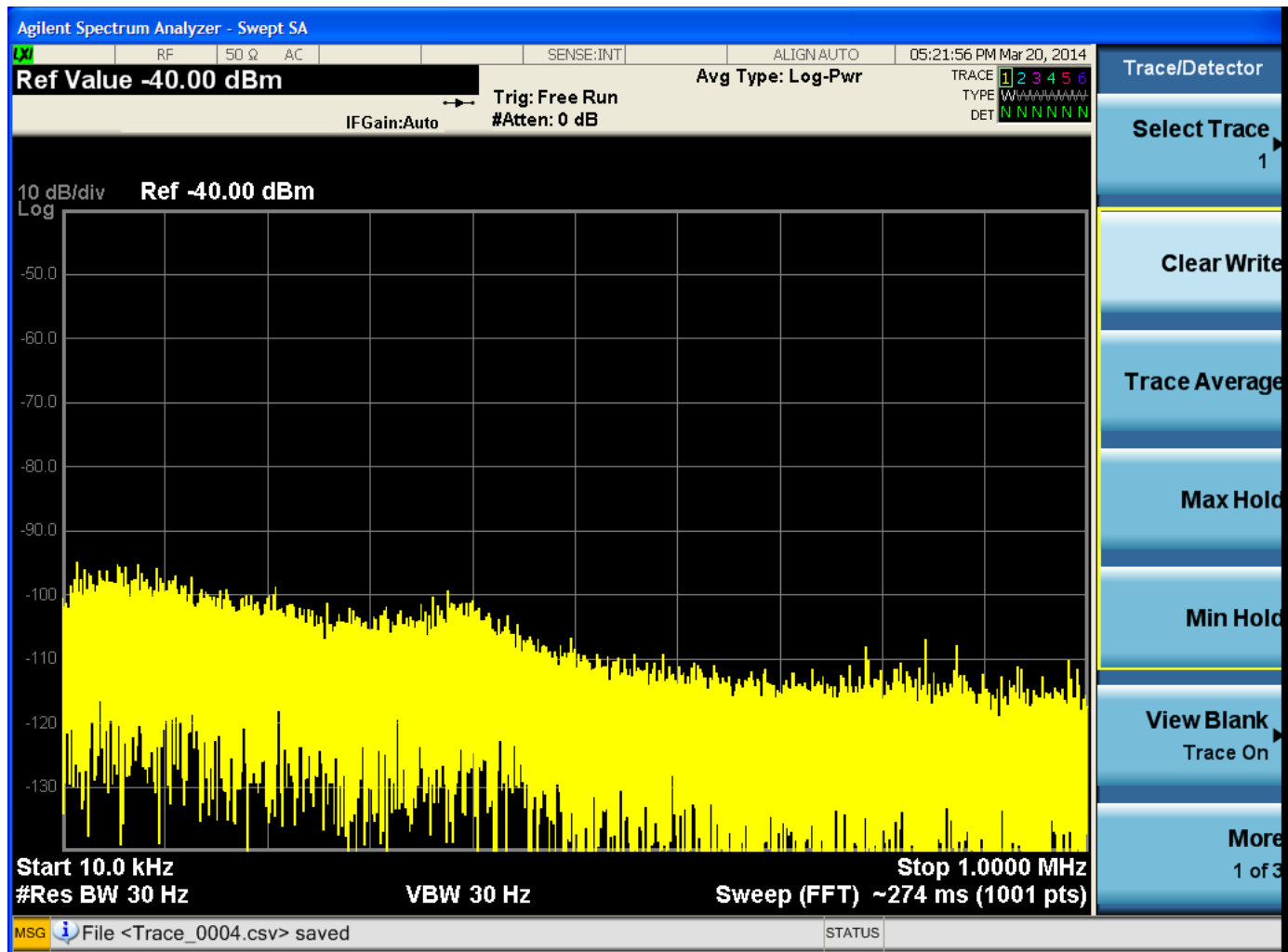
Test_04

Trace_04 with probe connected to SA o/p connected to HPF o/p



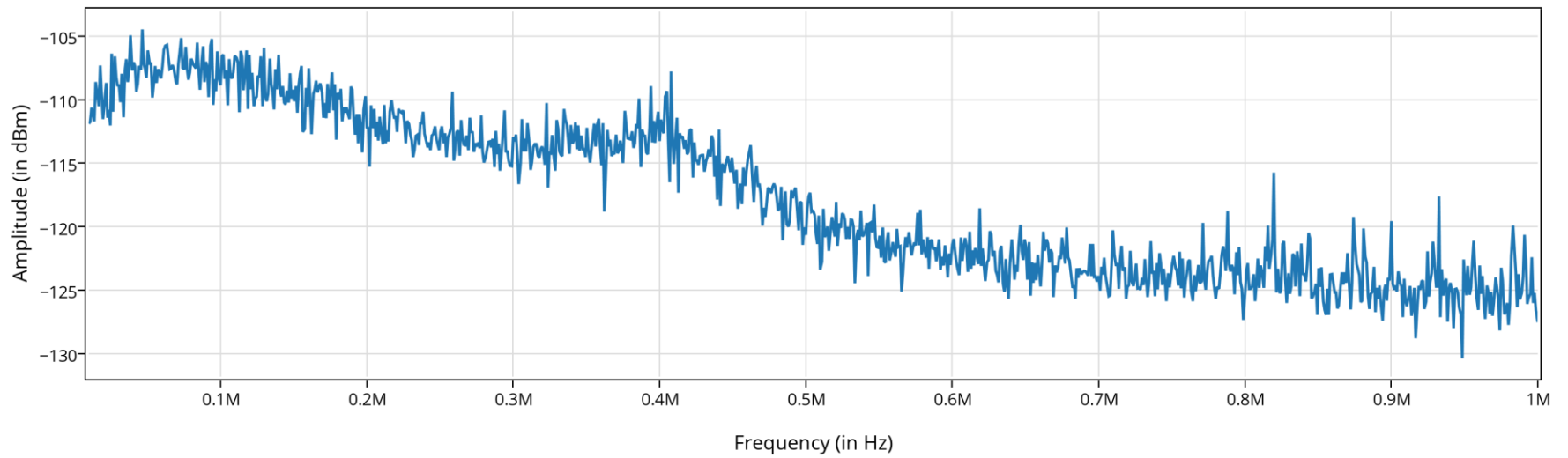
Source: Trace_04

Test_04



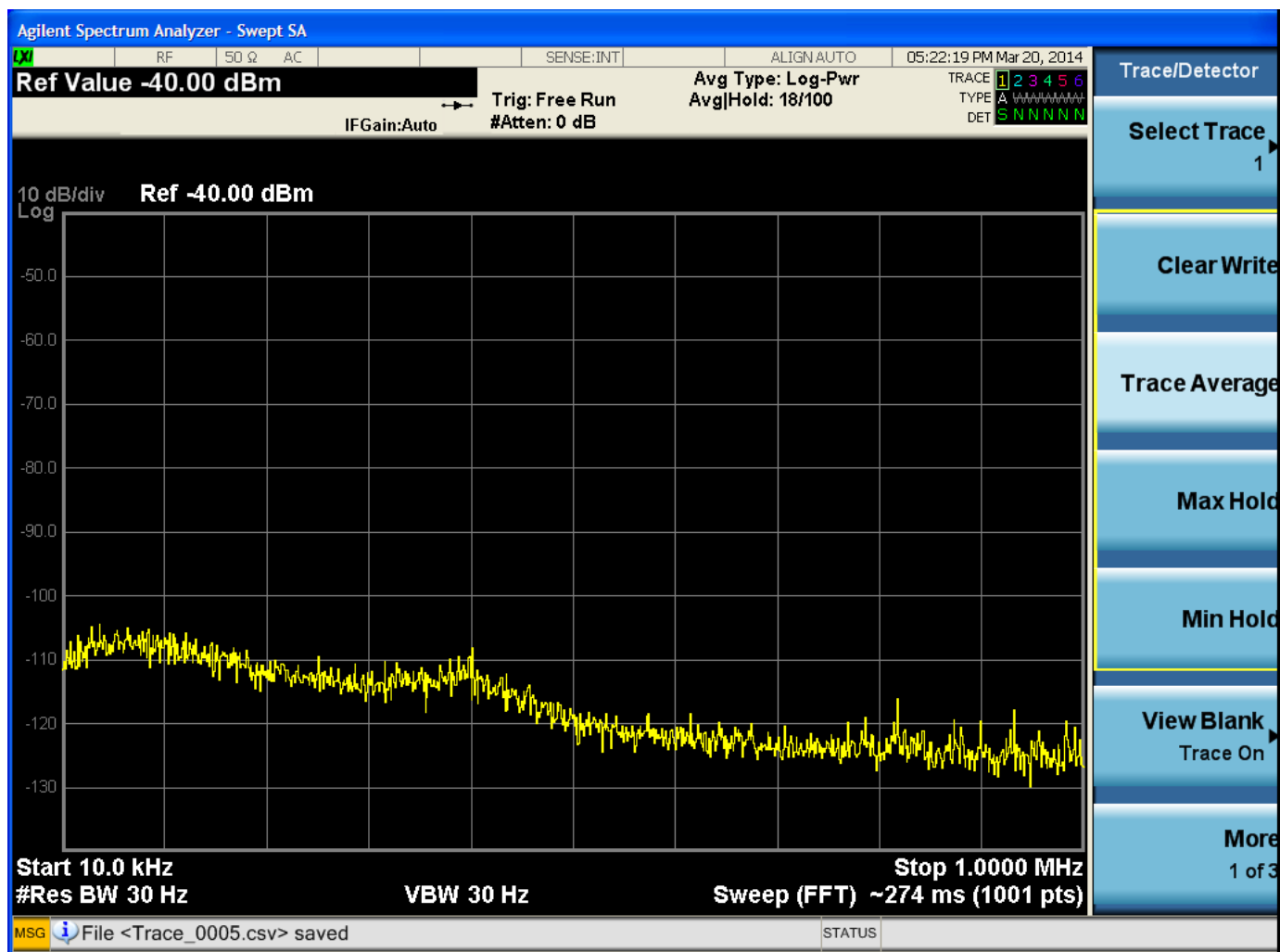
Test_05

Trace_05 with probe connected to SA o/p connected to HPF o/p(Averaged)



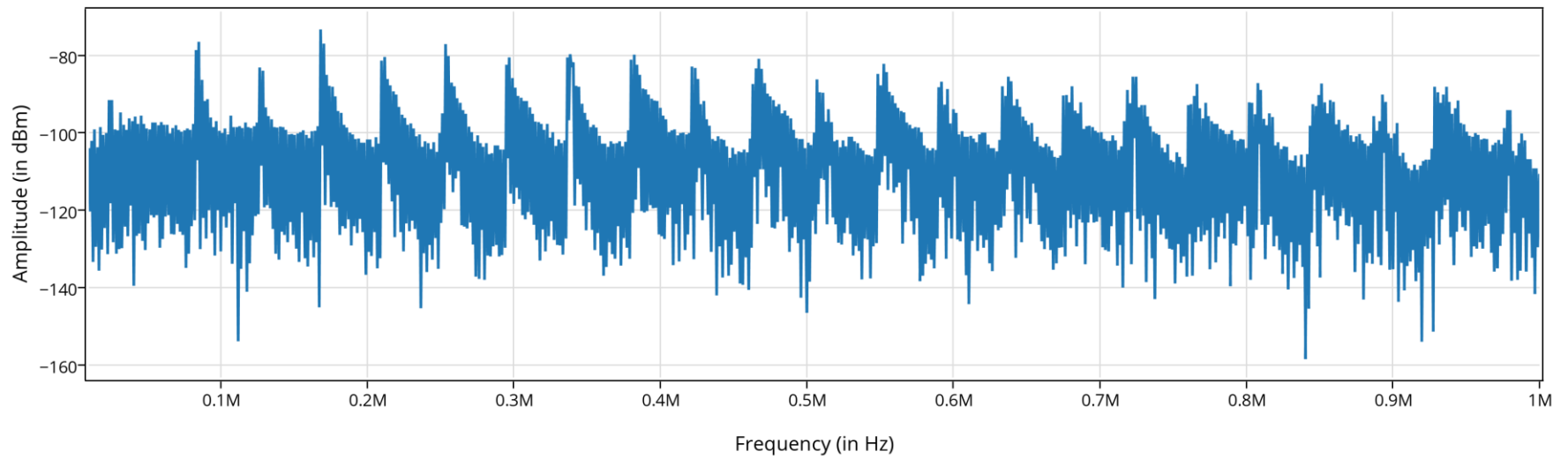
Source: Trace_05

Test_05



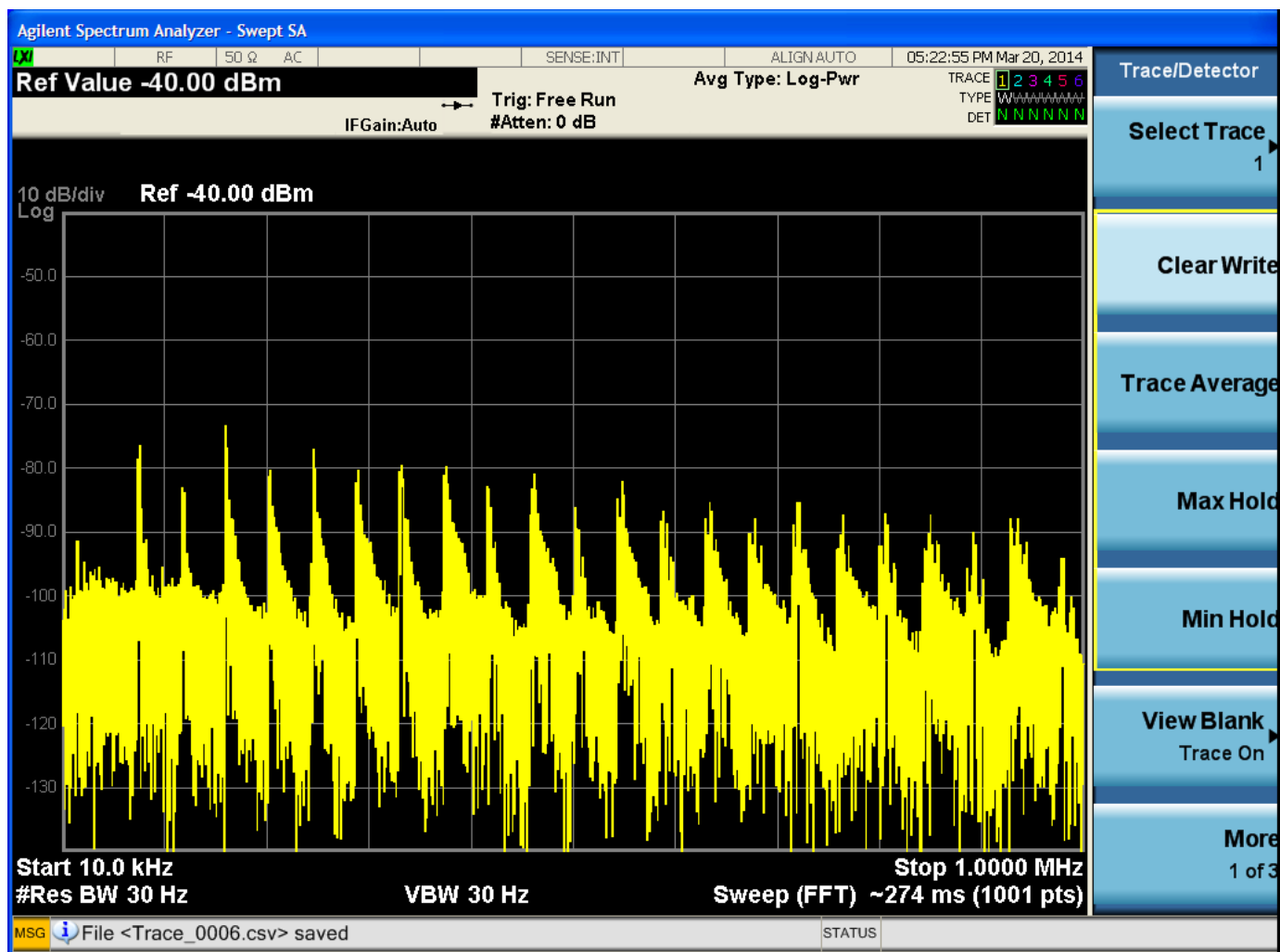
Test_06

Trace_06 with probe connected to SA o/p connected to HPF o/p with CFL as Load



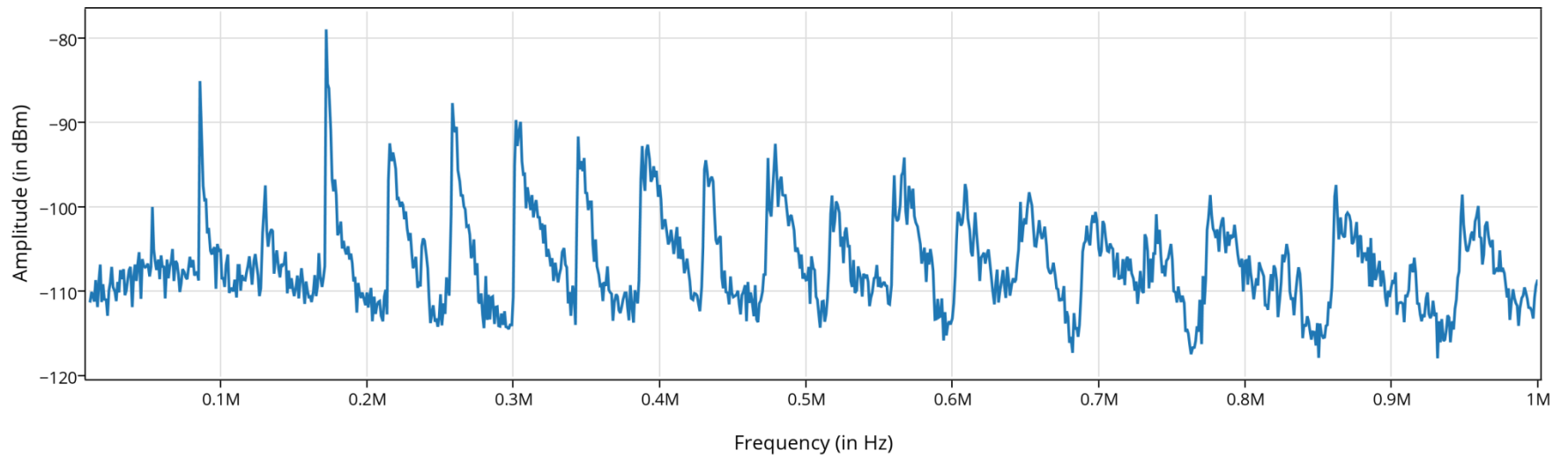
Source: Trace_06

Test_06



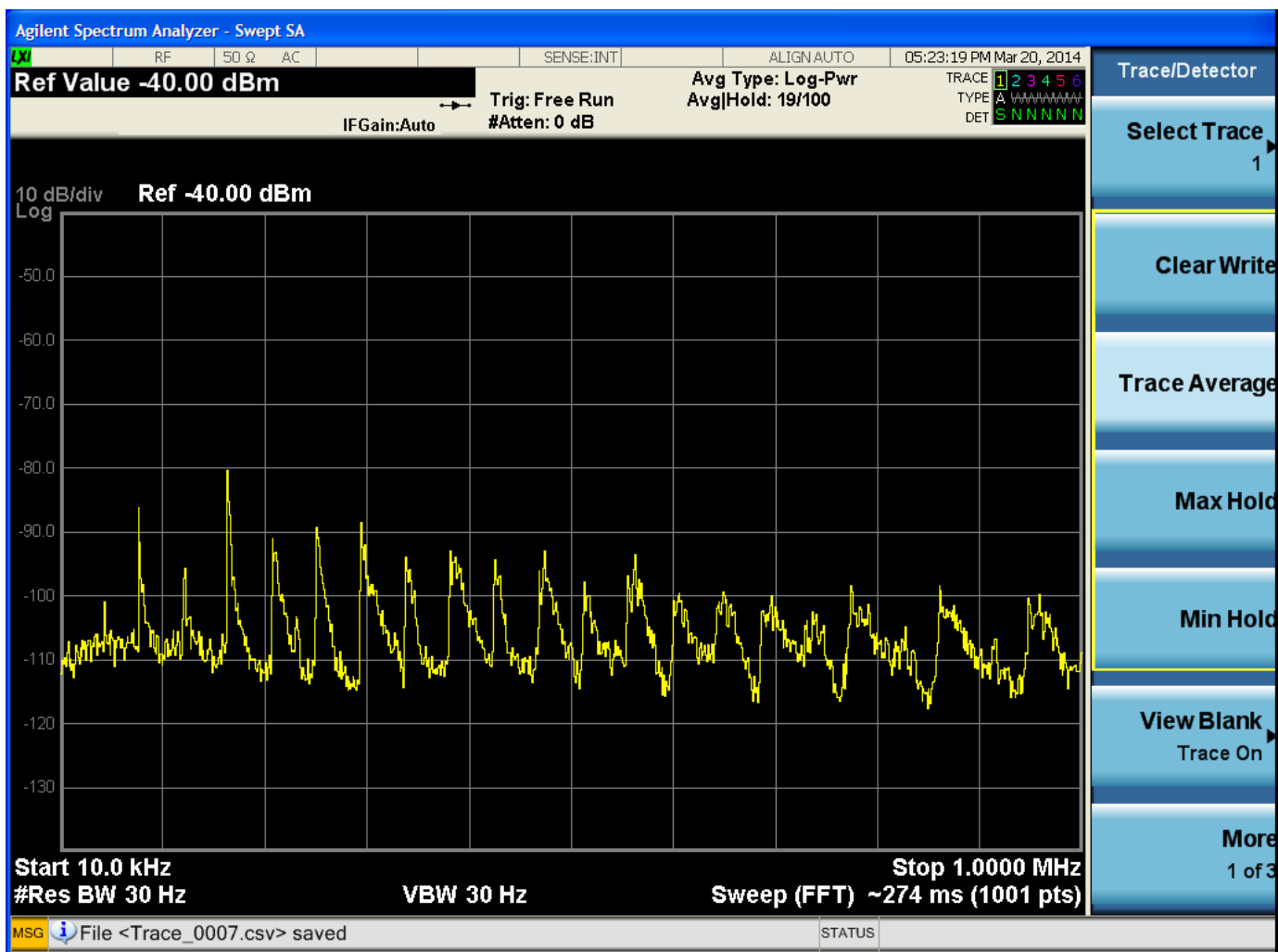
Test_07

Trace_07 with probe connected to SA o/p connected to HPF o/p with CFL as Load (Averaged)



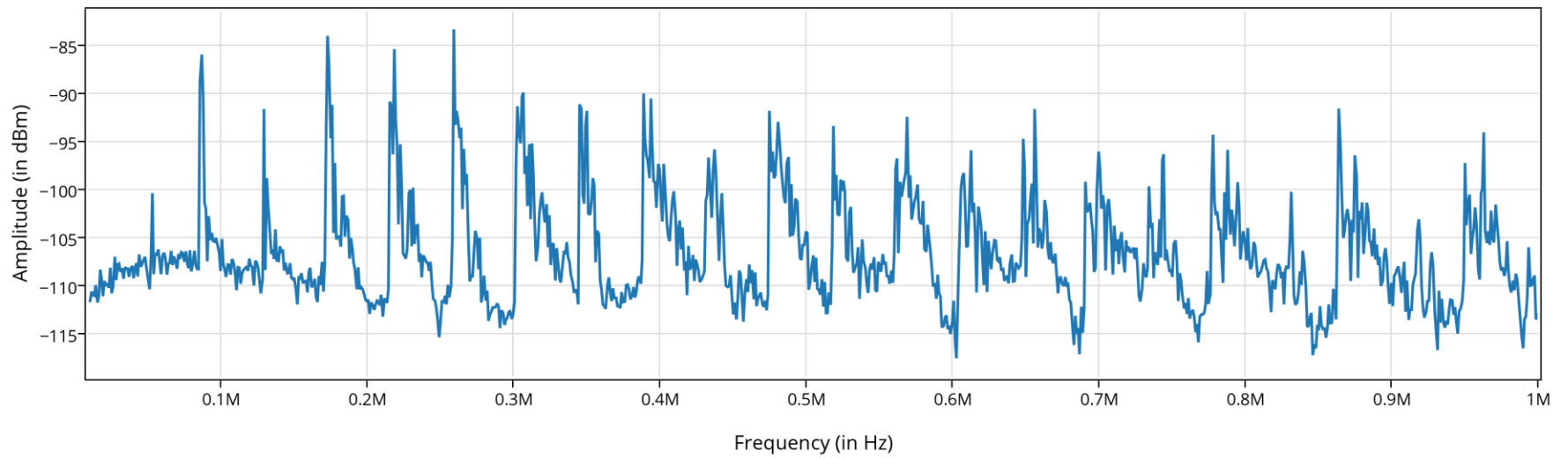
Source: Trace_07

Test_07



Test_08

Trace_08 with probe connected to SA o/p connected to HPF o/p with CFL as Load (Averaged)



Source: Trace_08

Test_08

