

The 432 & UP
Swedish EME Meeting
organized by SM4IVE
in [Örebro](#) May 2011 & 2012

ENR calibration

Reference ENR
Agilent SNS N4000A
S/N MY44420135
Cal 3-Dec-2010

Test Description

The Excess Noise Ratio (ENR) test is based on comparing the DUT test results to a reference standard test results.

The ENR of DUT is then calculated at the cardinal frequency points using the following equation:

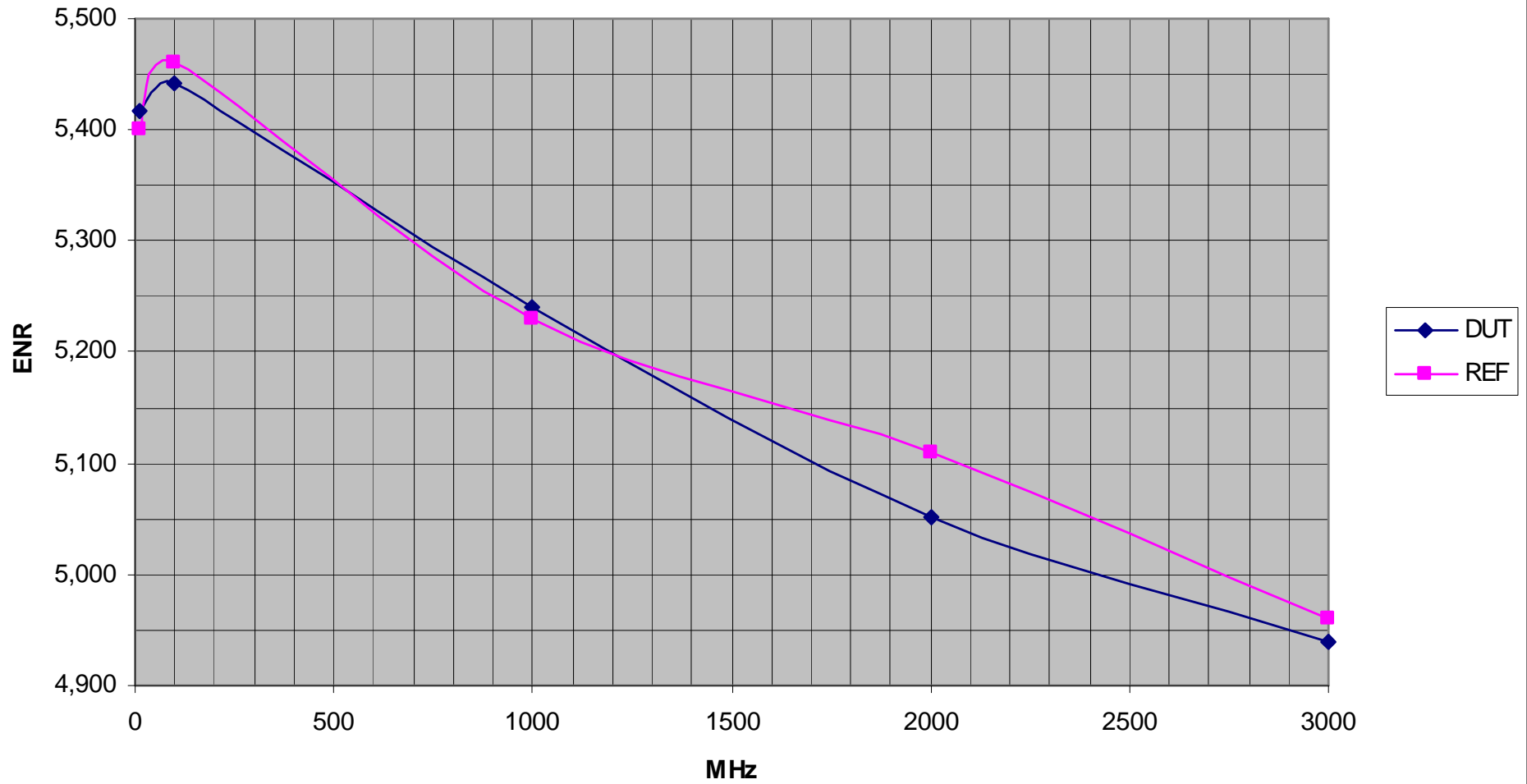
$$ENR_{dut} = 10 \times \log \left[\frac{(Y_{dut} - 1) \times \left(T_0 \times \frac{\left(10^{\frac{ENR_{ref}}{10}} \right)}{(Y_{ref} - 1)} \right)}{T_0} \right]$$

In the following graphs:

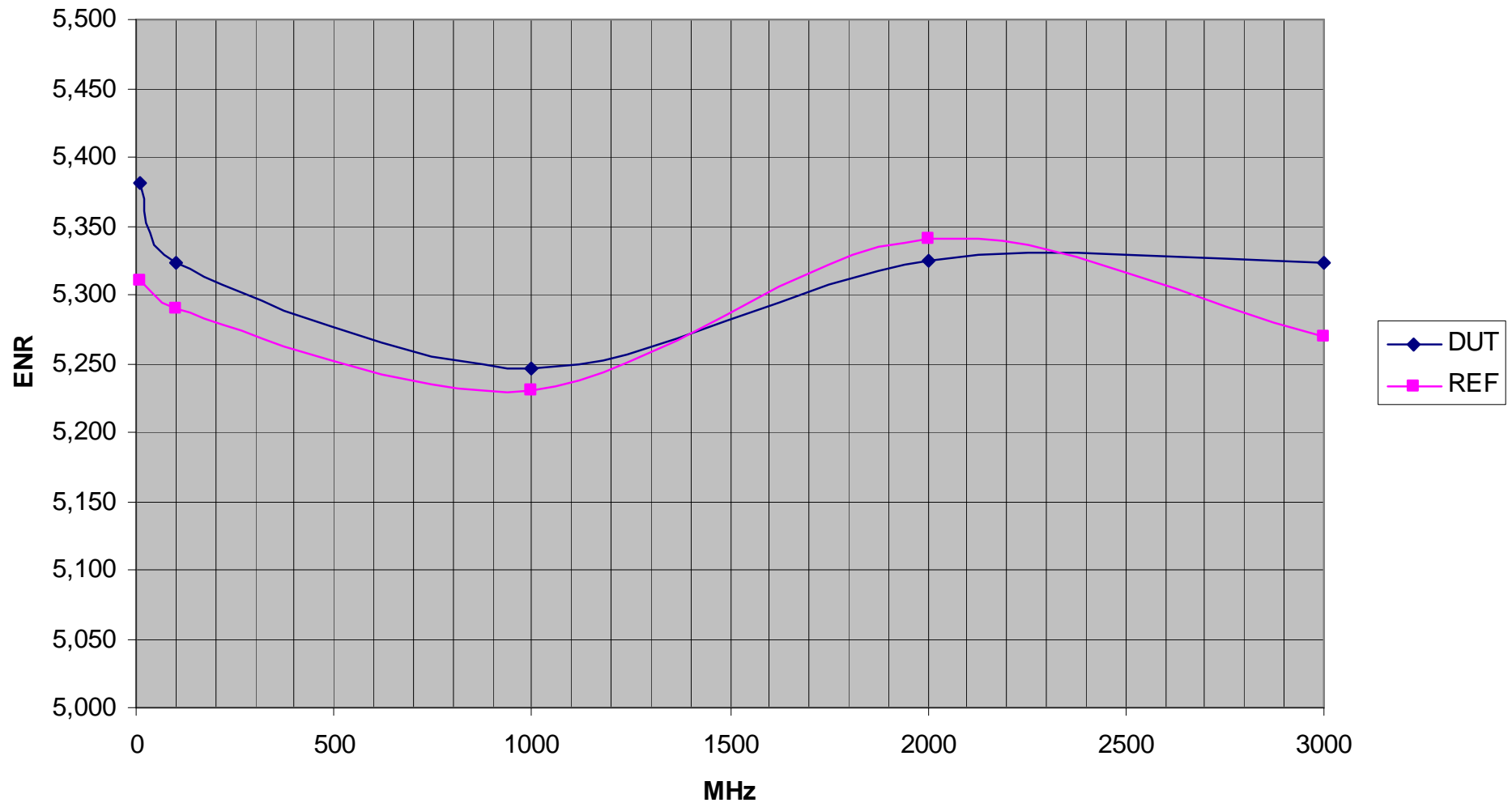
DUT = The calculated ENR values

REF = Previously recorded ENR values if available

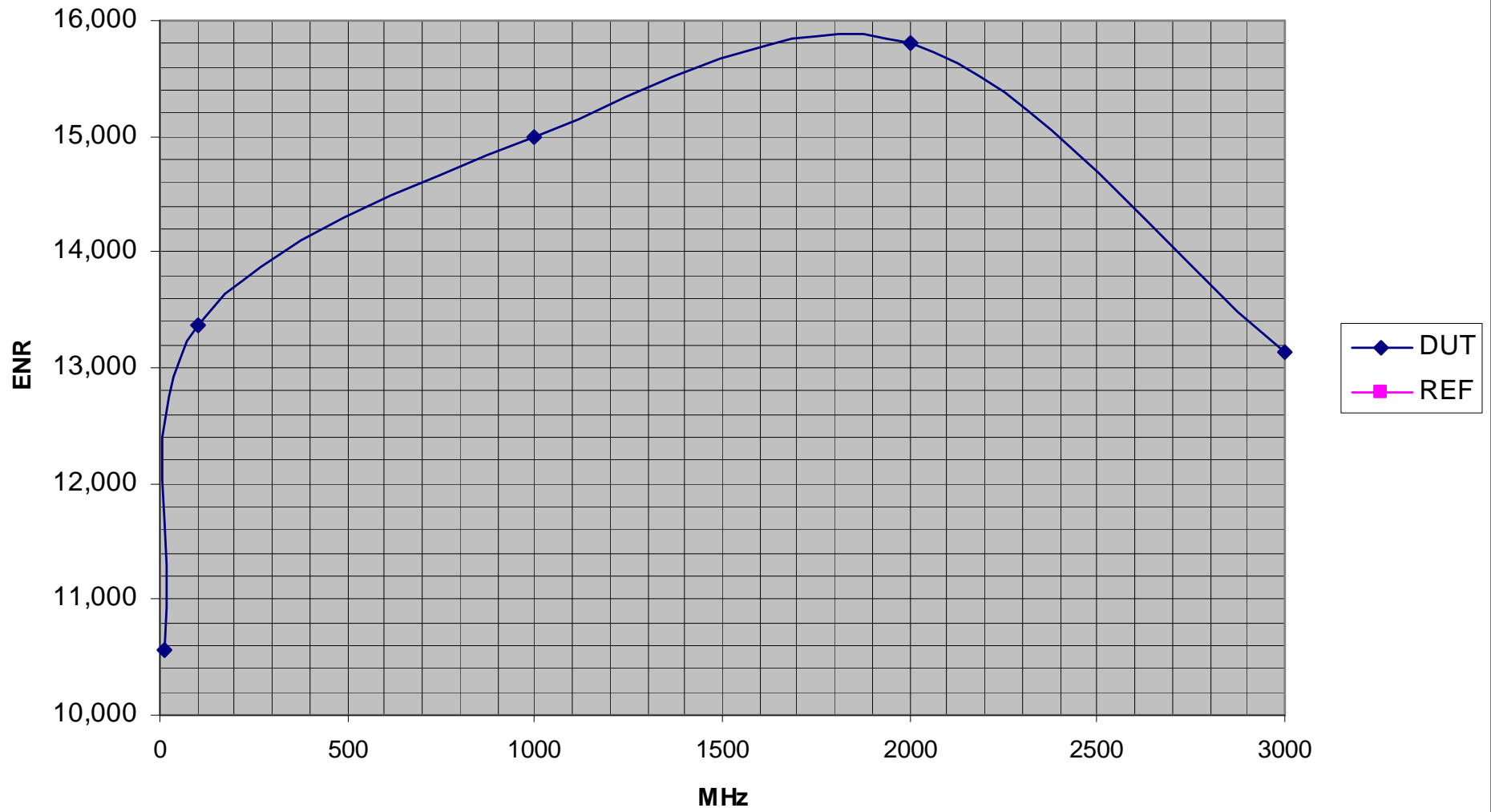
PA7JB



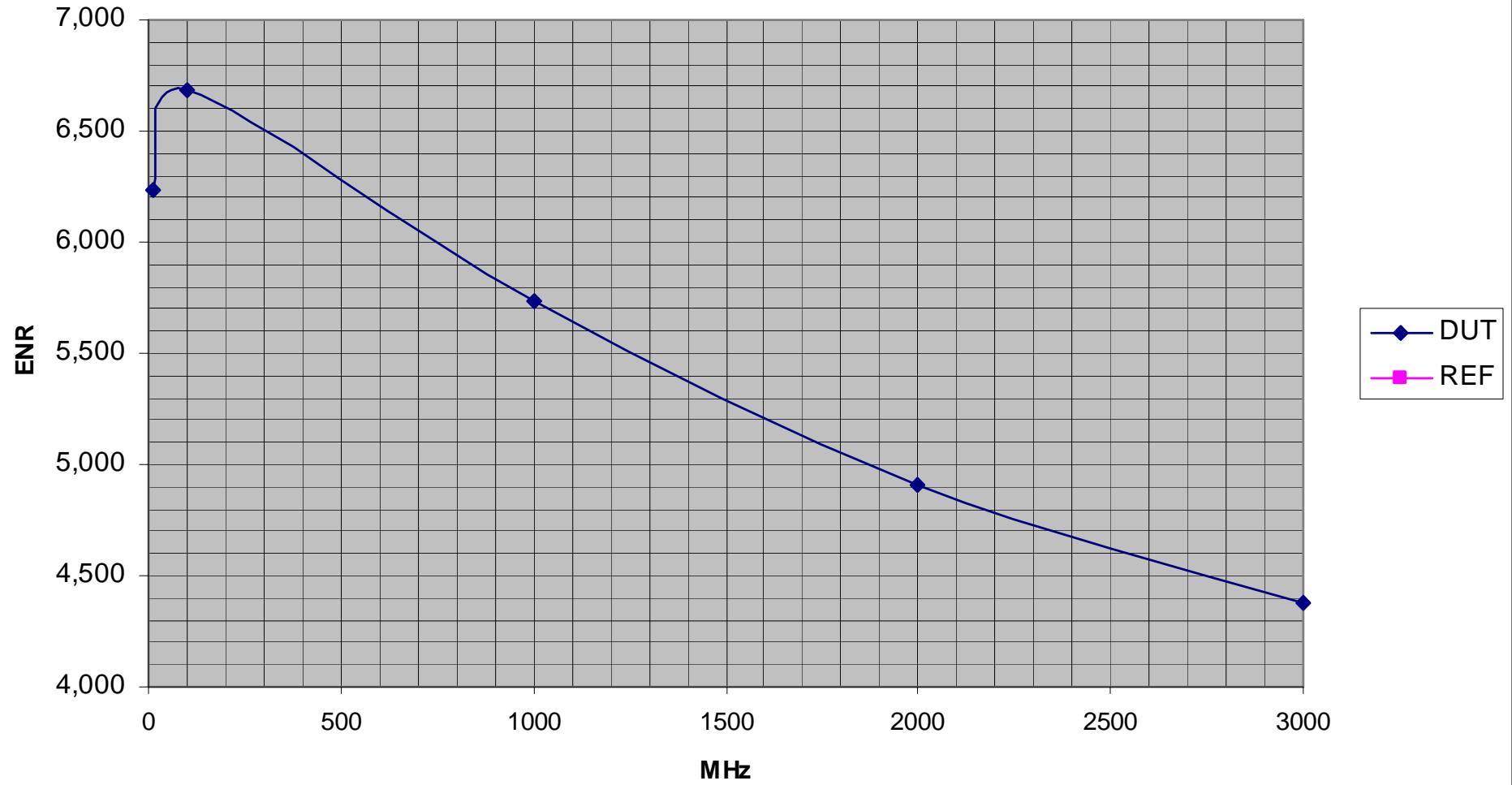
SM0ERR_MY44420333



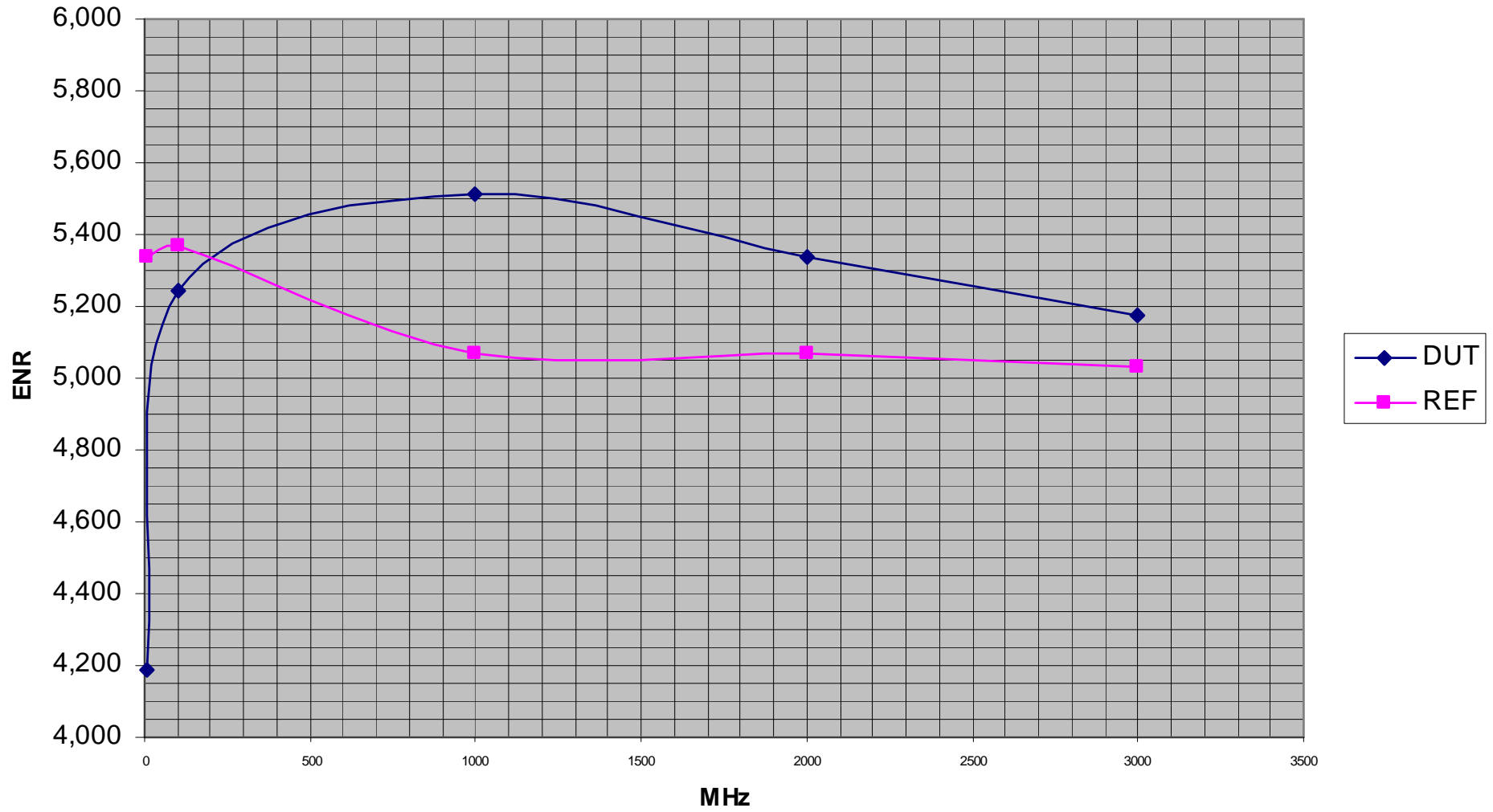
SM2CEW



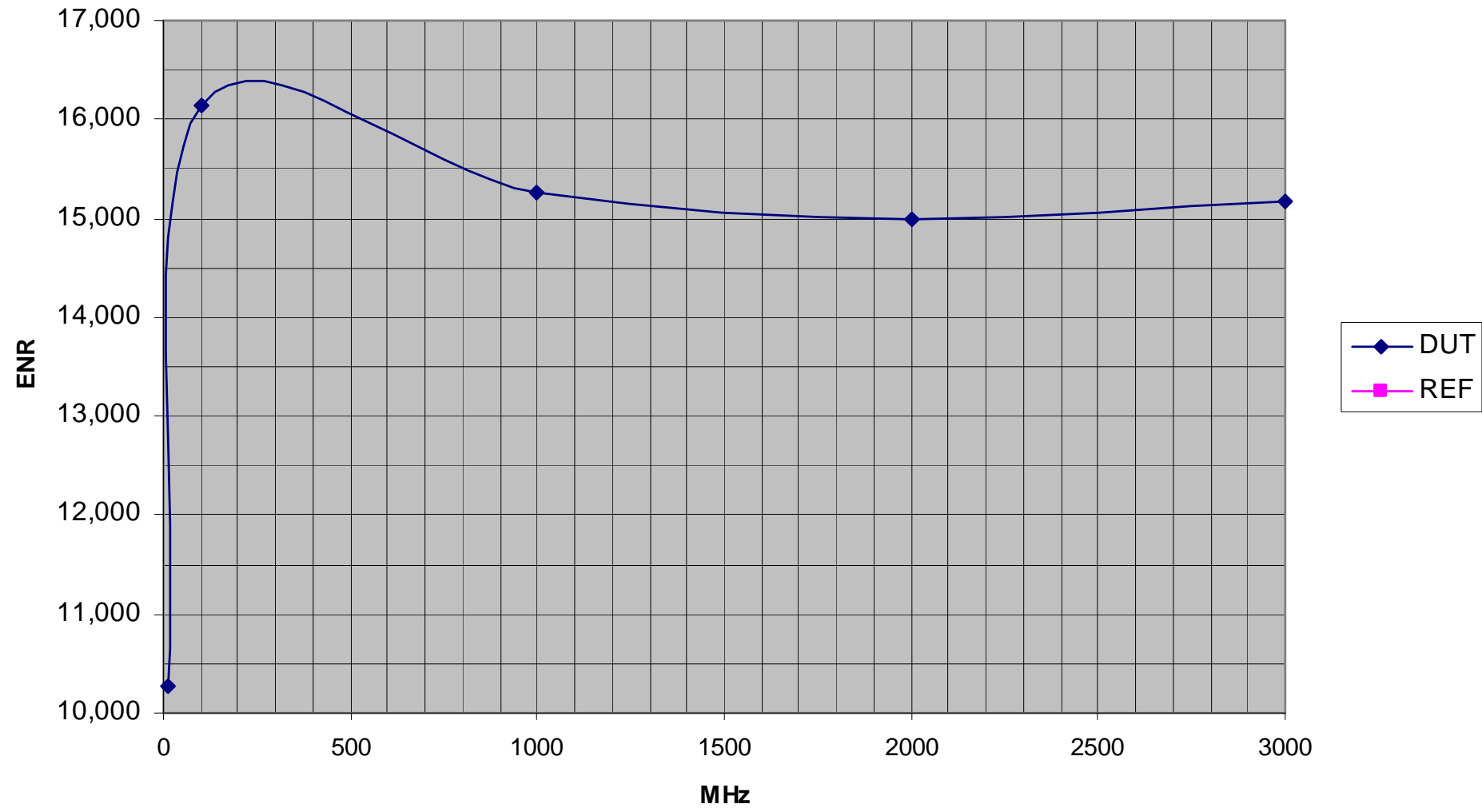
SM3JQU



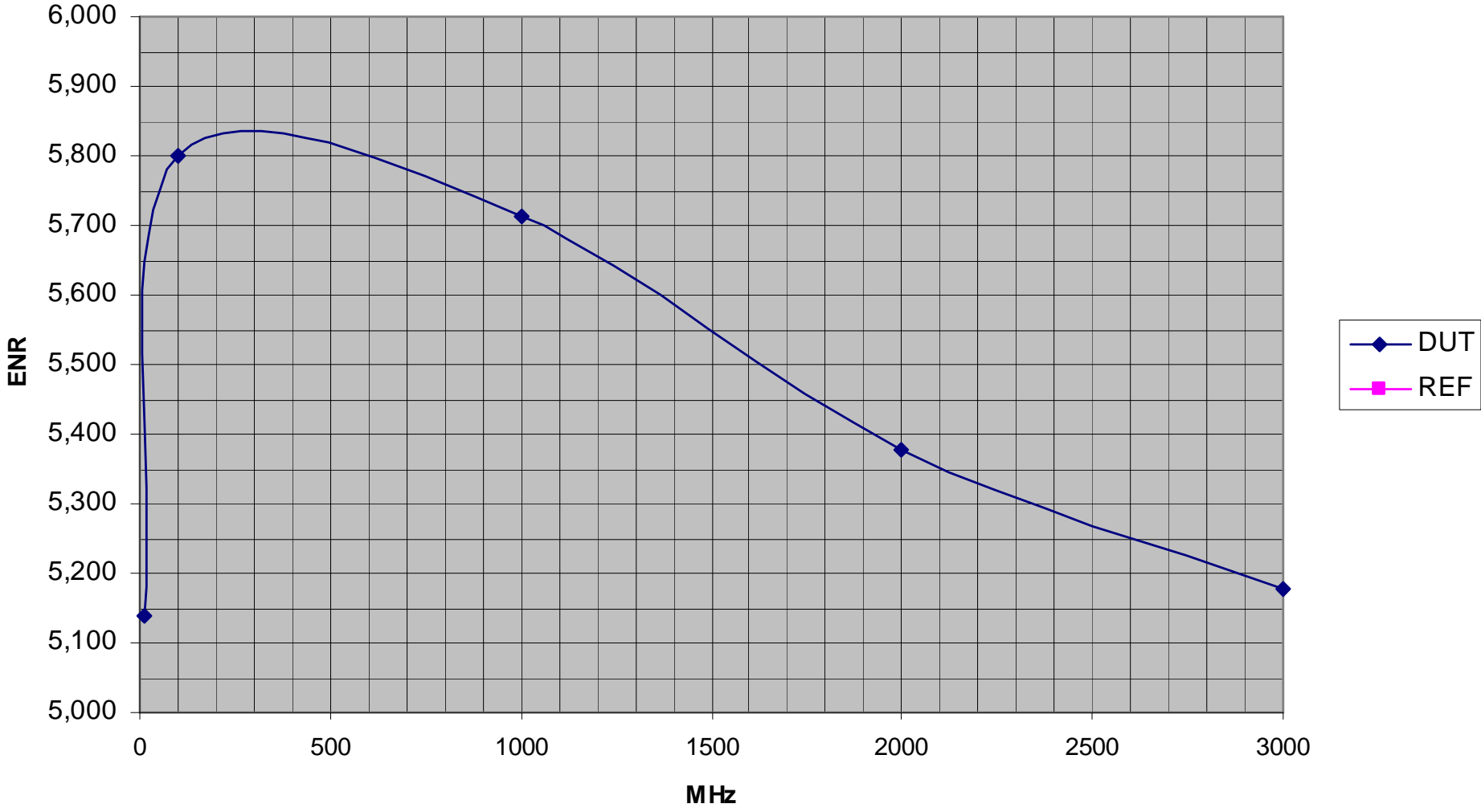
SM4DHN



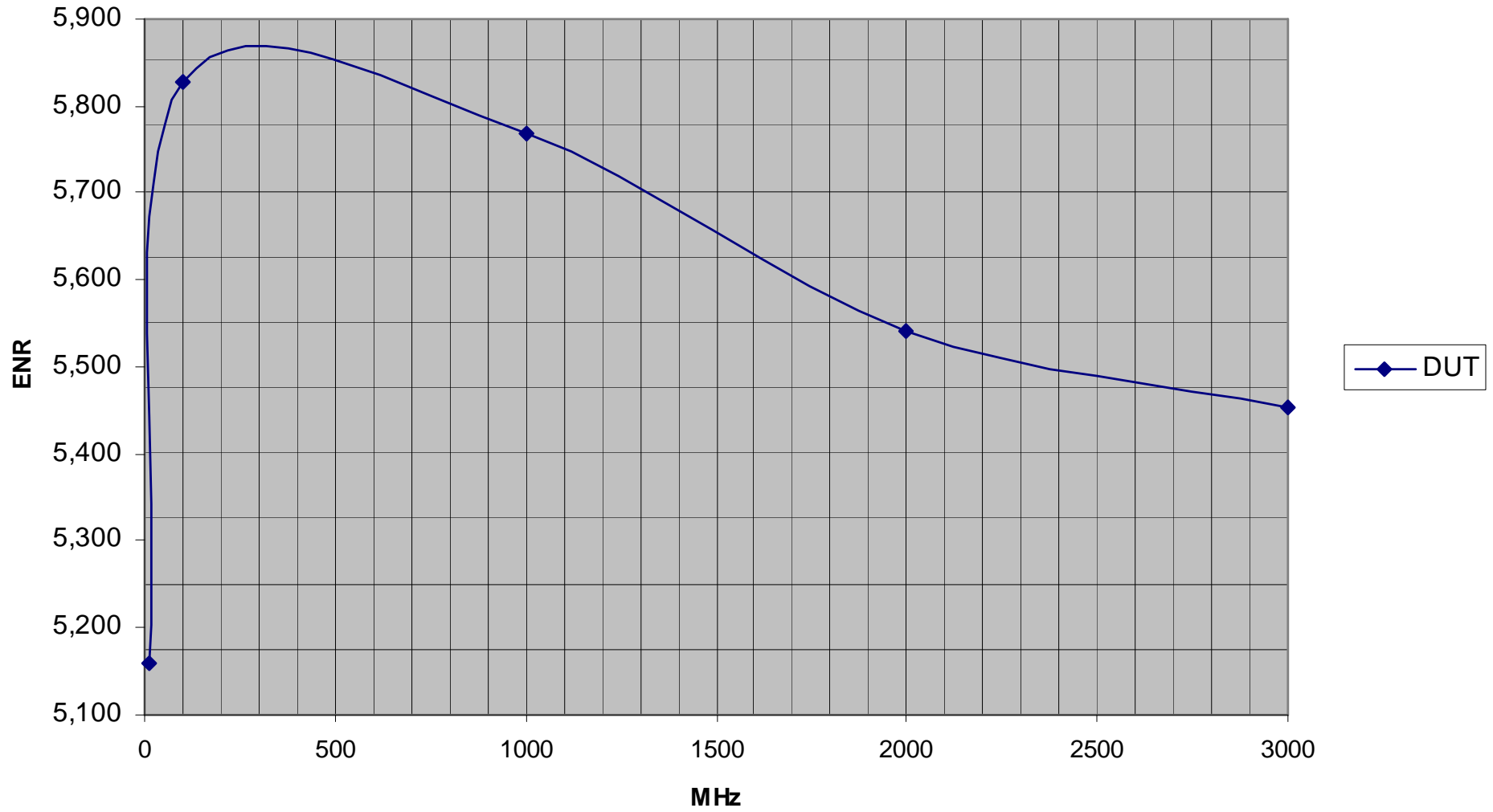
SM4DHN_hb



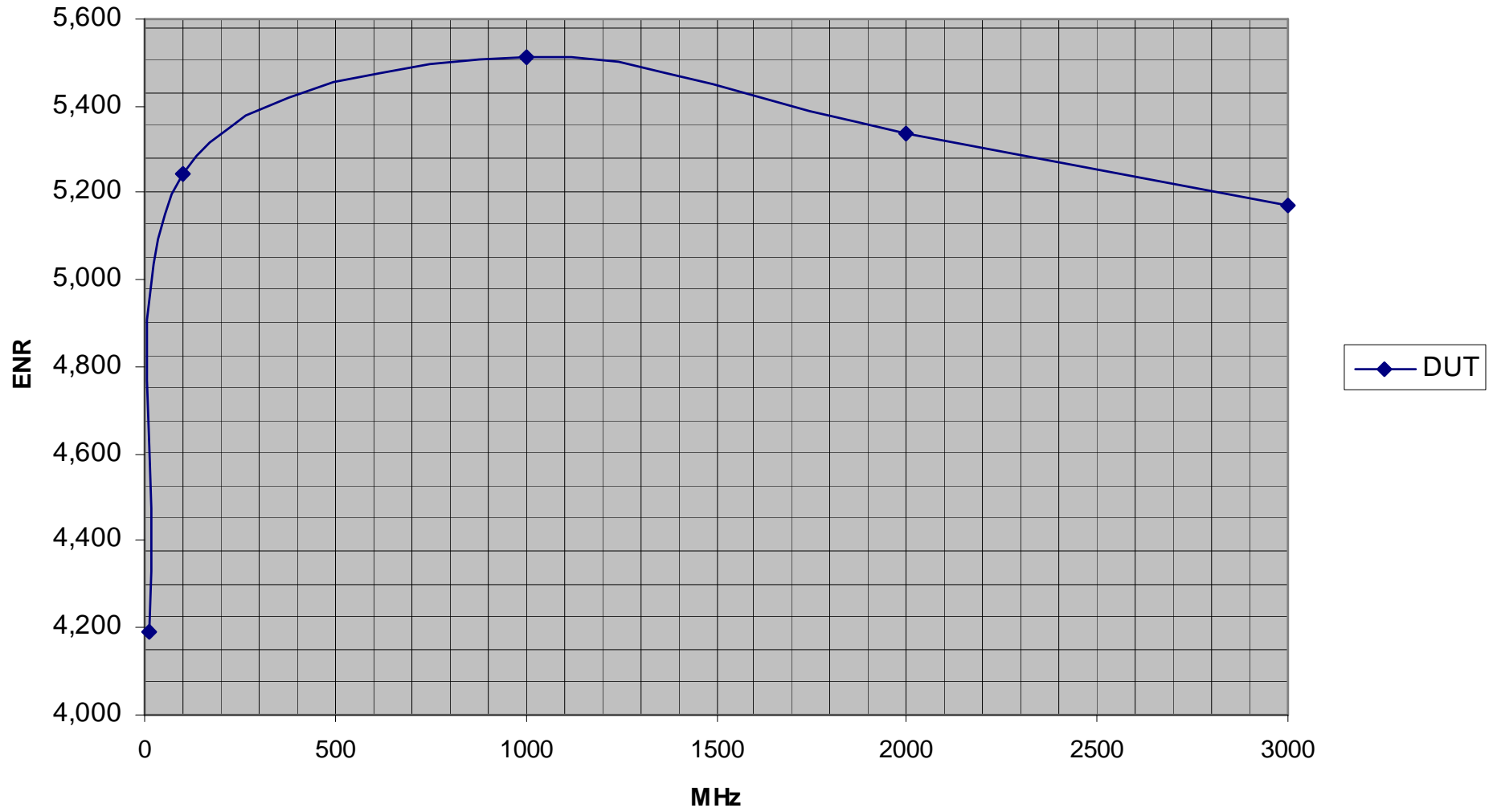
SM4DHN_magn



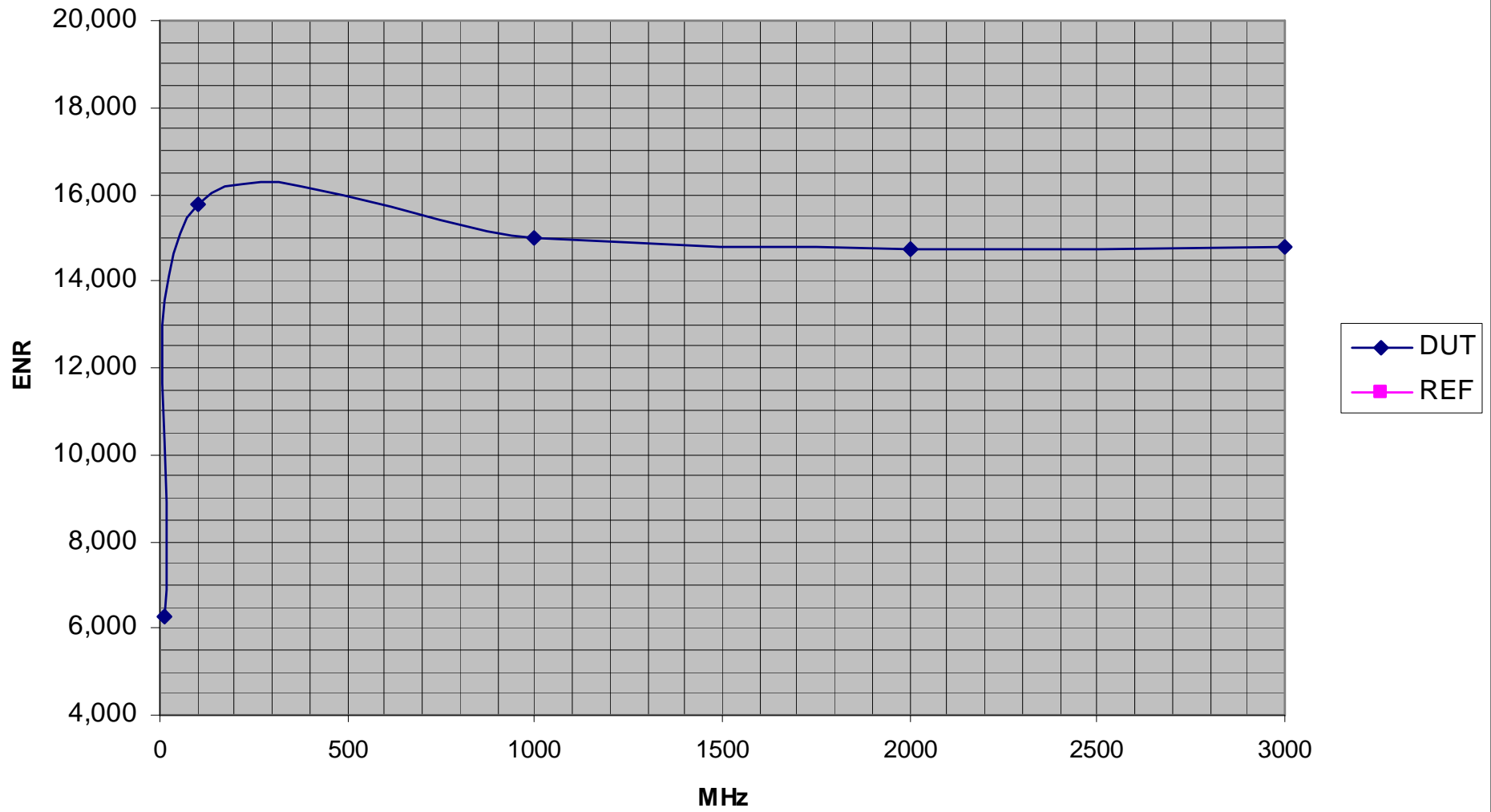
SM4FXR_1



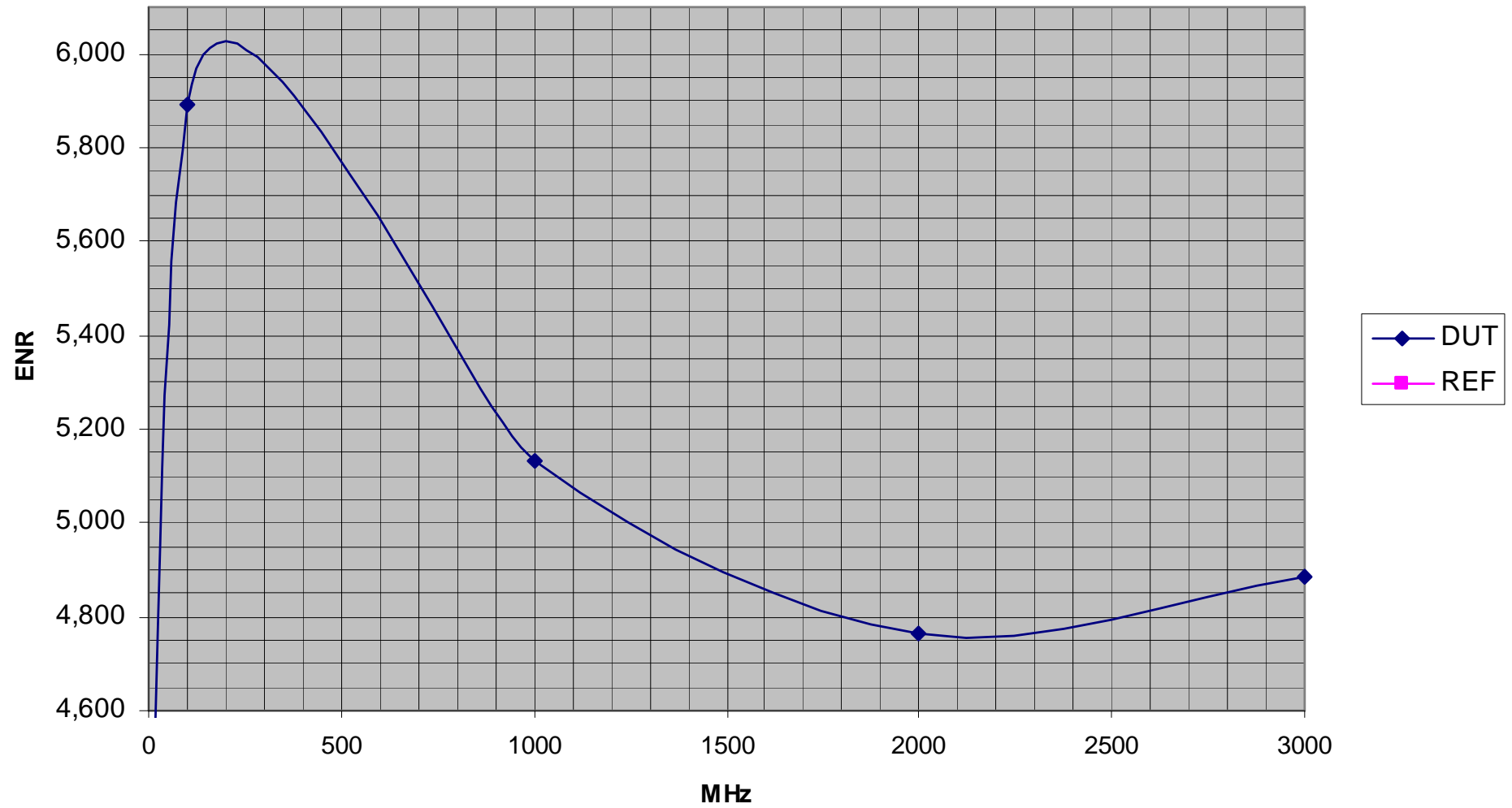
SM4FXR_2



SM4IVE



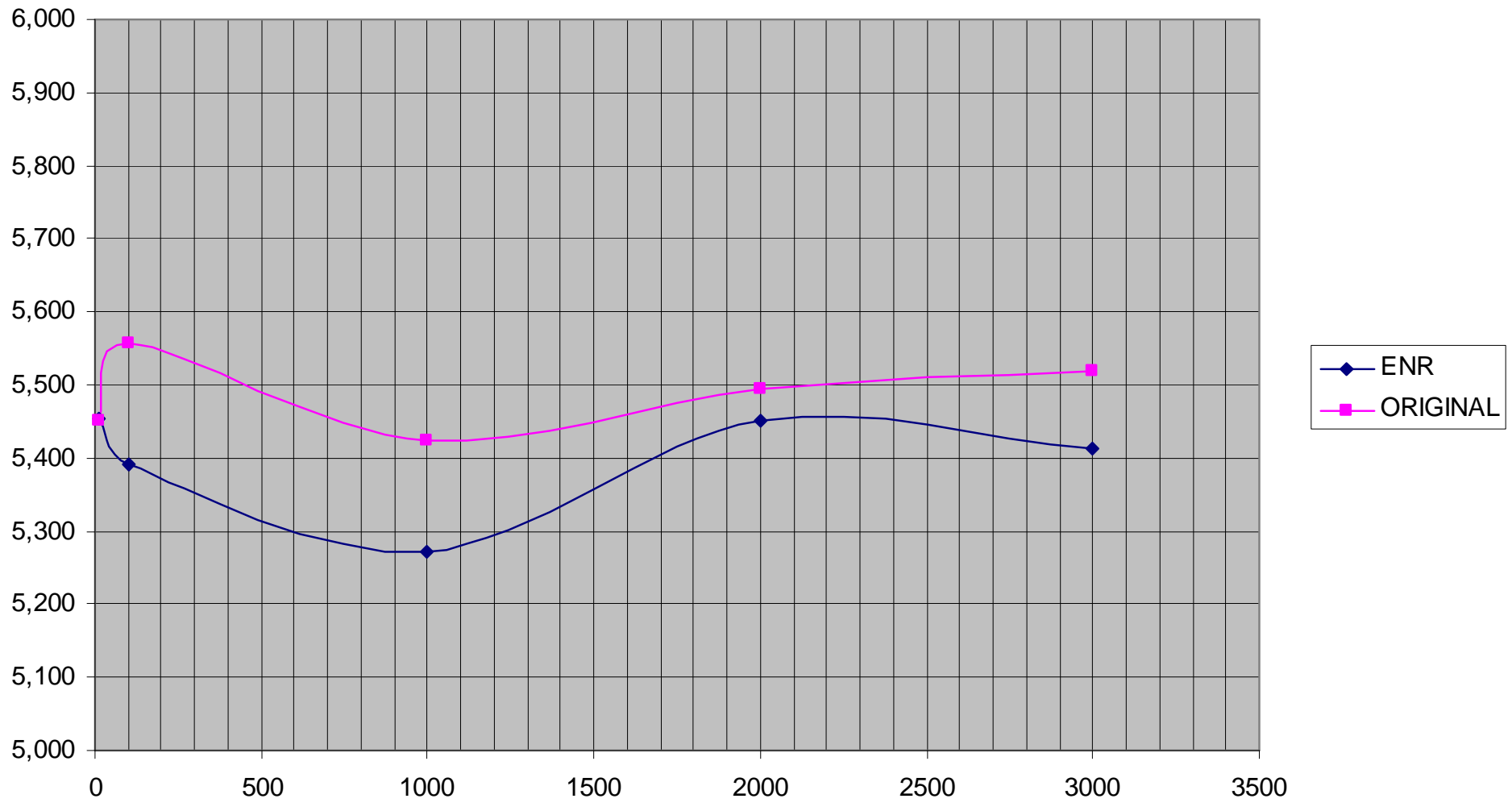
SM4IVE-10dB



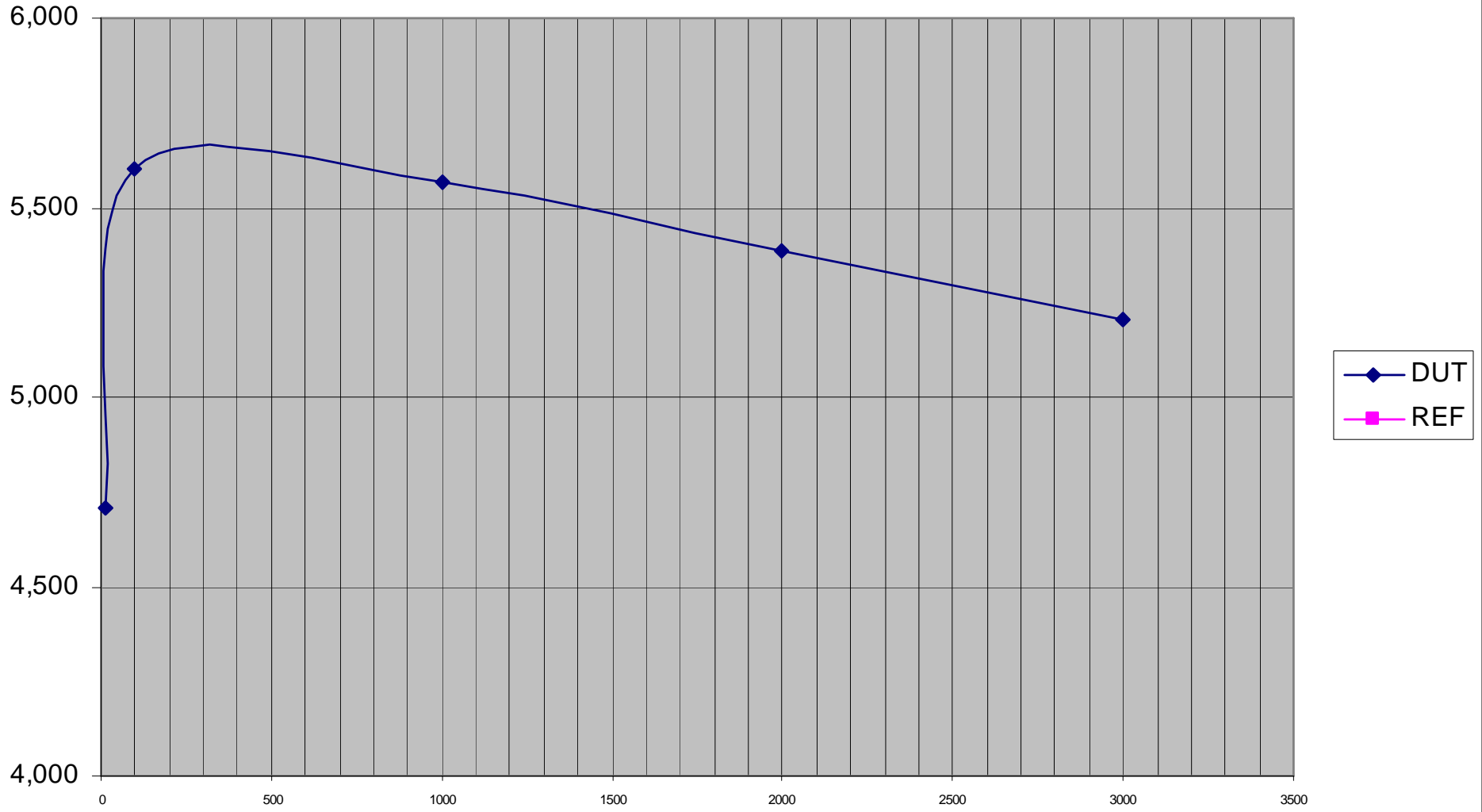
Örebro 2012

- Following ENR tested during meeting 2012

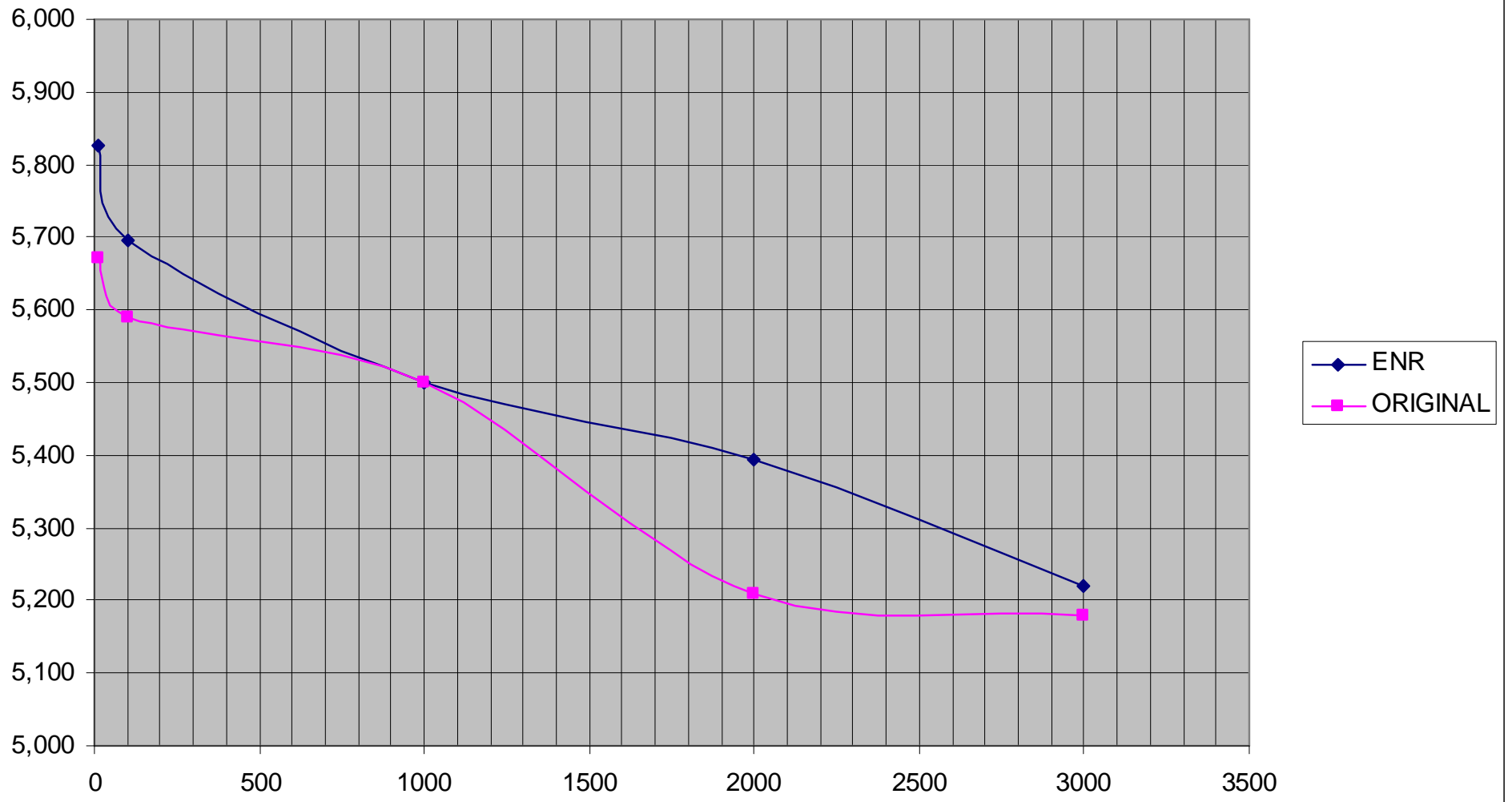
HB9BBD SNS US41120217 + APC to N adapter



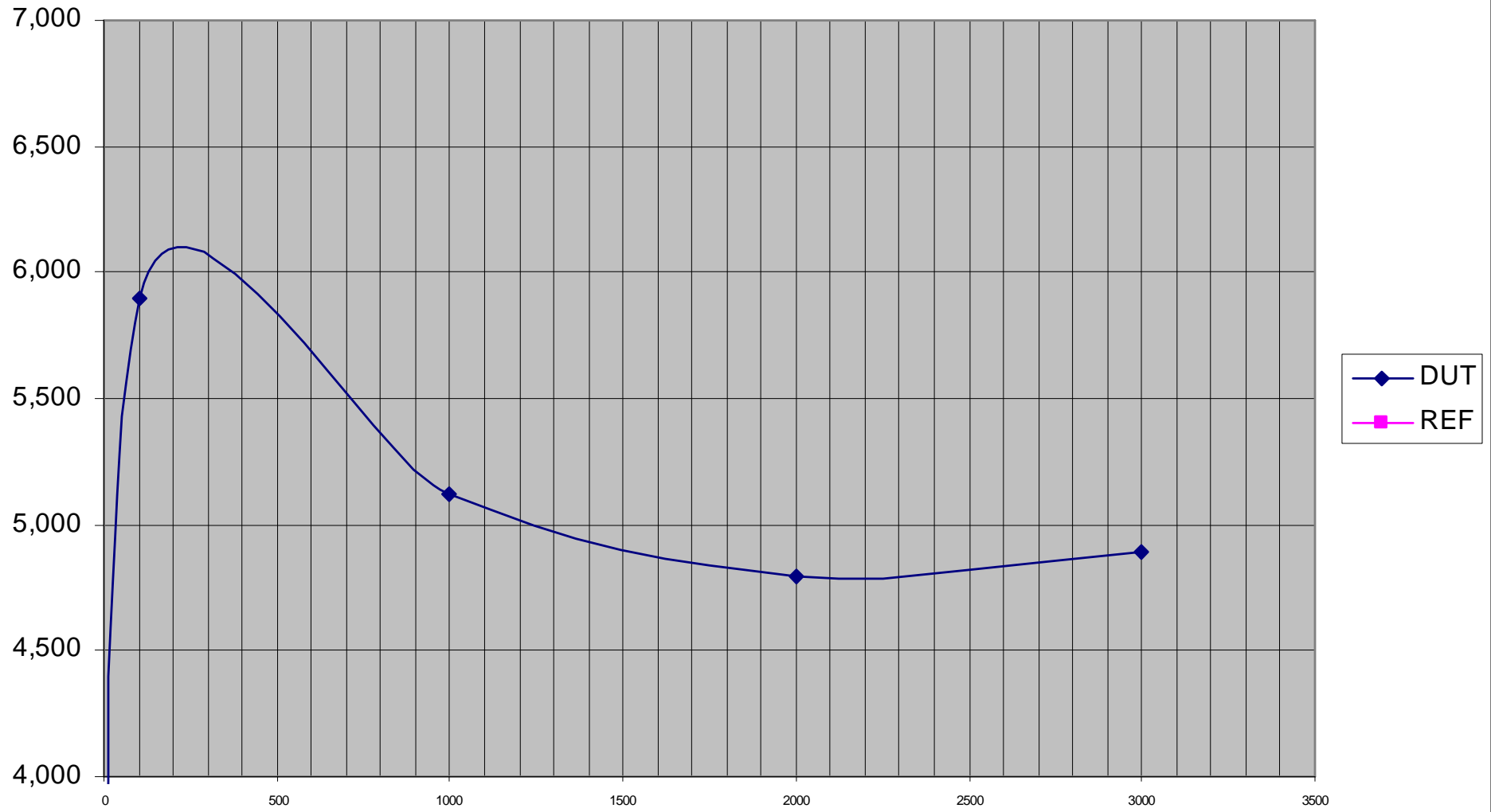
SM7GVF MSC638 +19dB att



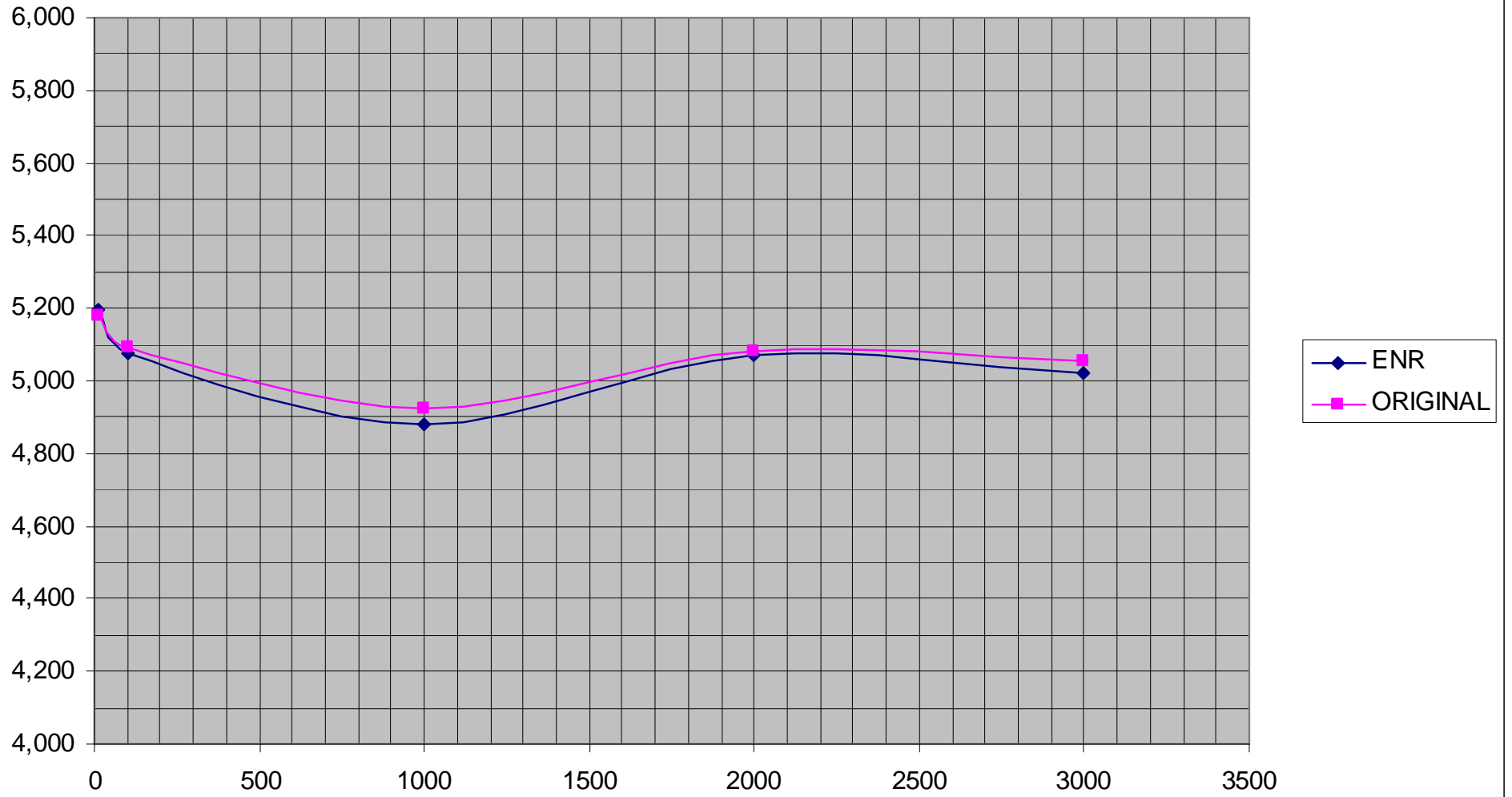
DJ8FR 346A



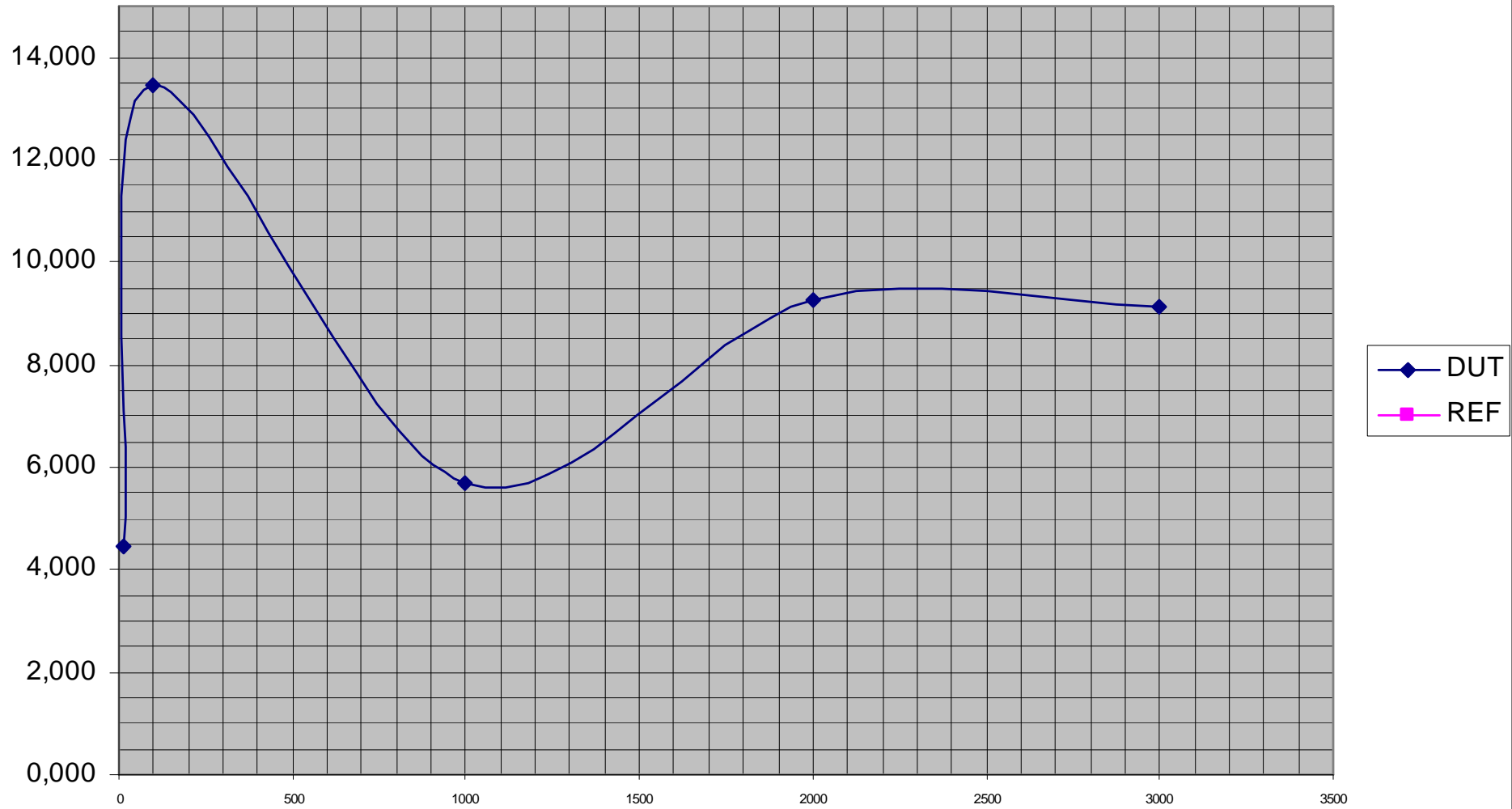
SM7FWZ



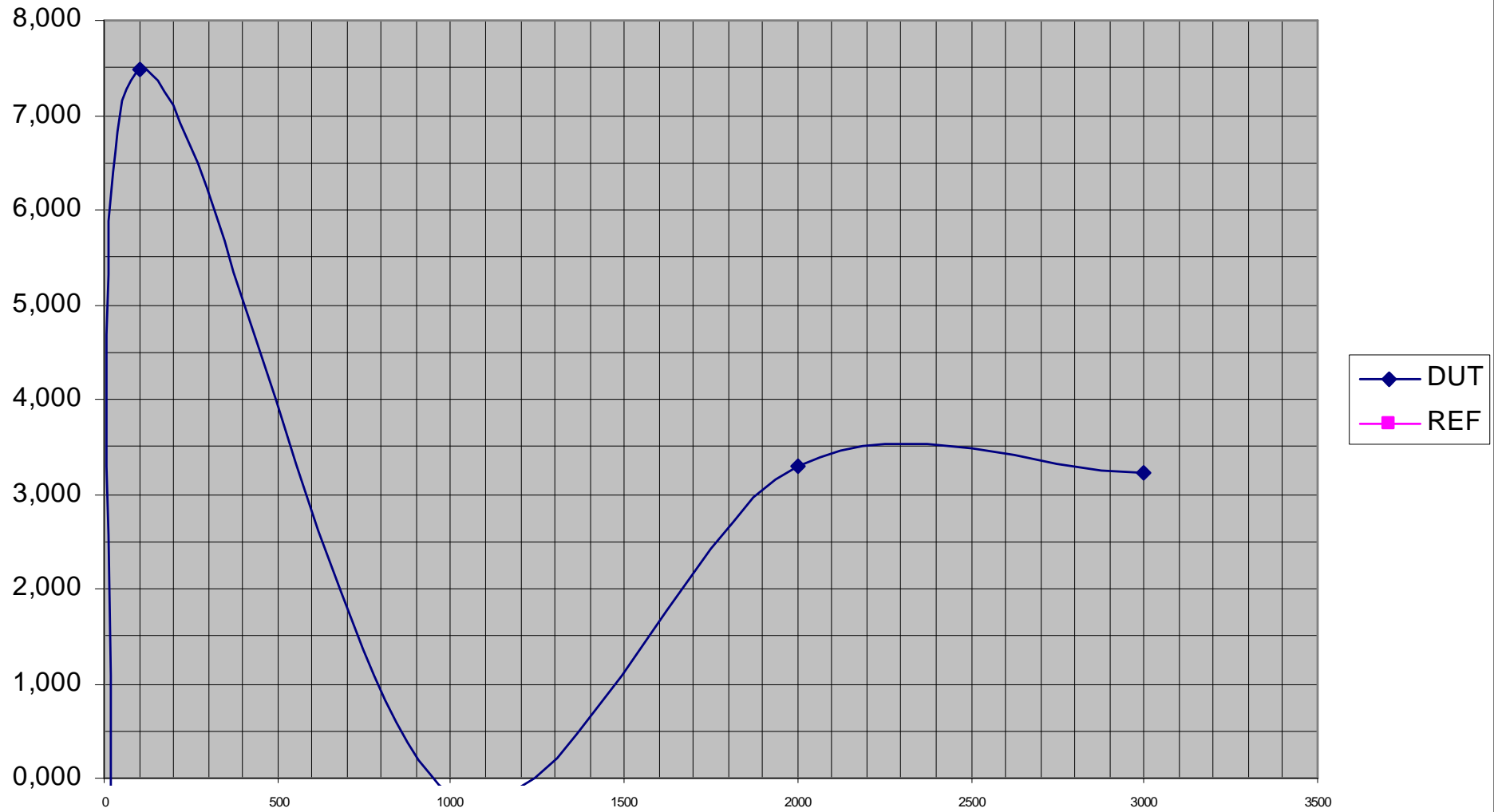
SM0ERR SNS1 to SNS2



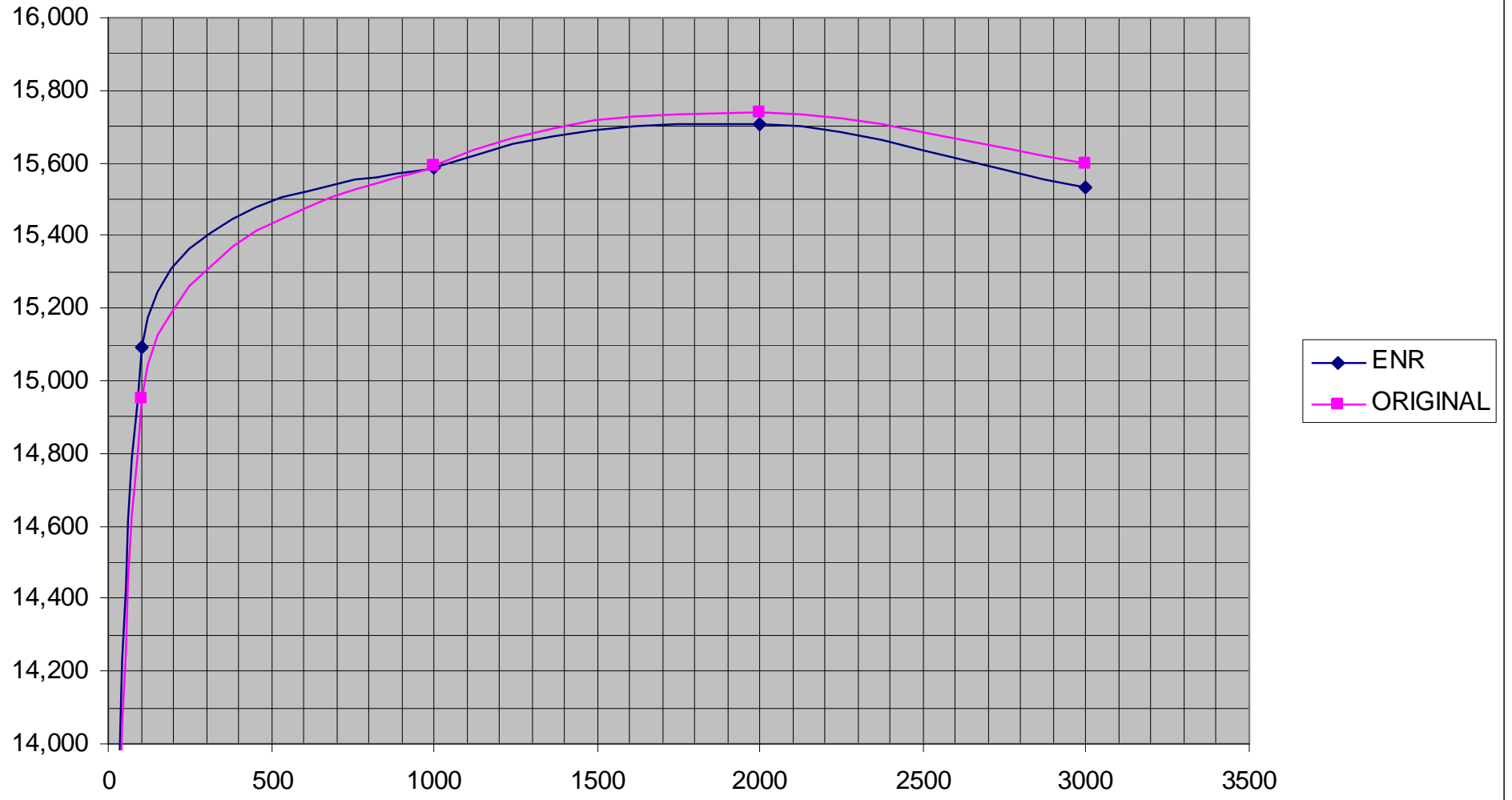
OZ4MM/DJ9BV + 20 dB att



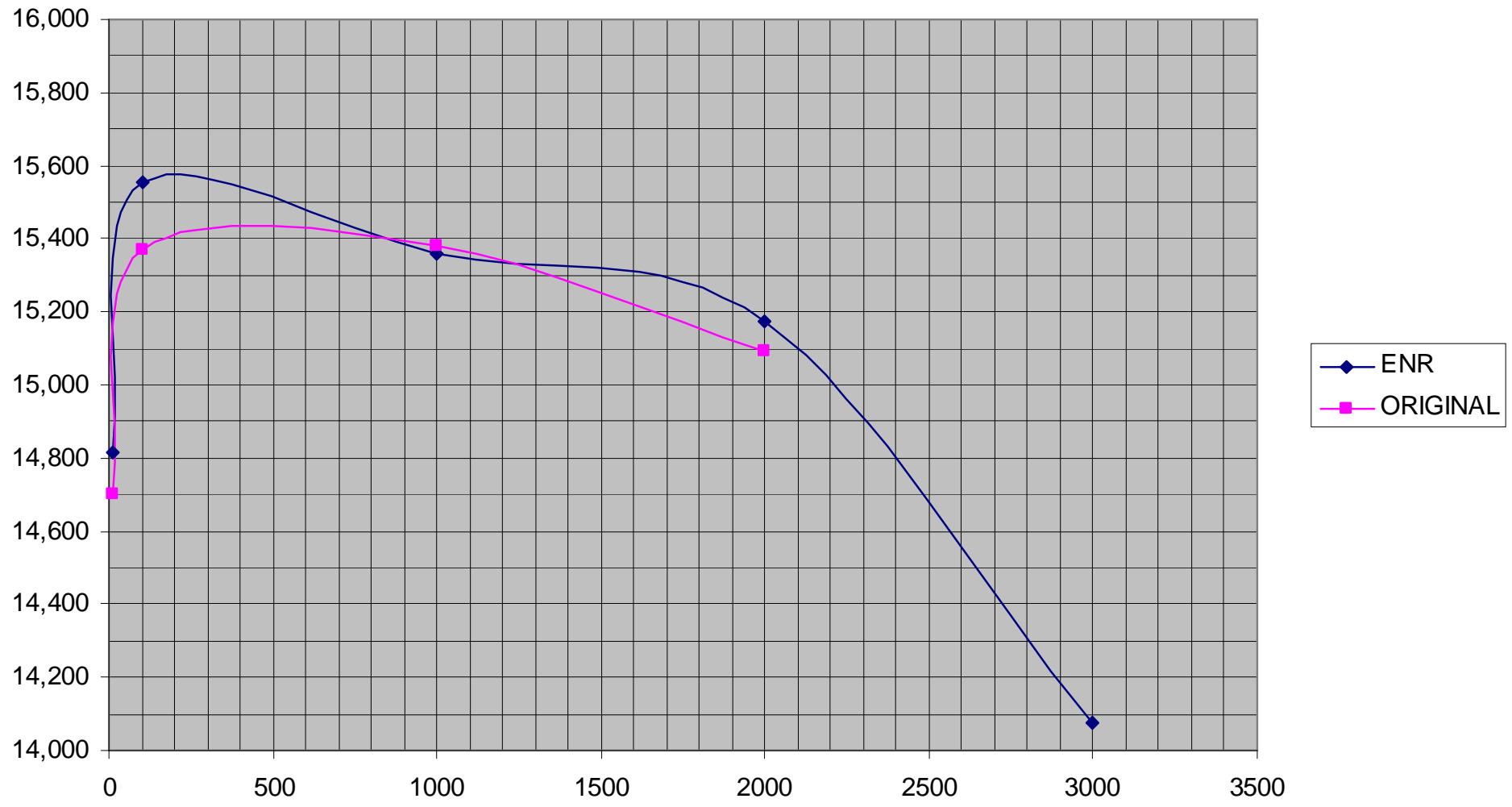
OZ4MM/DJ9BV + 26 dB att



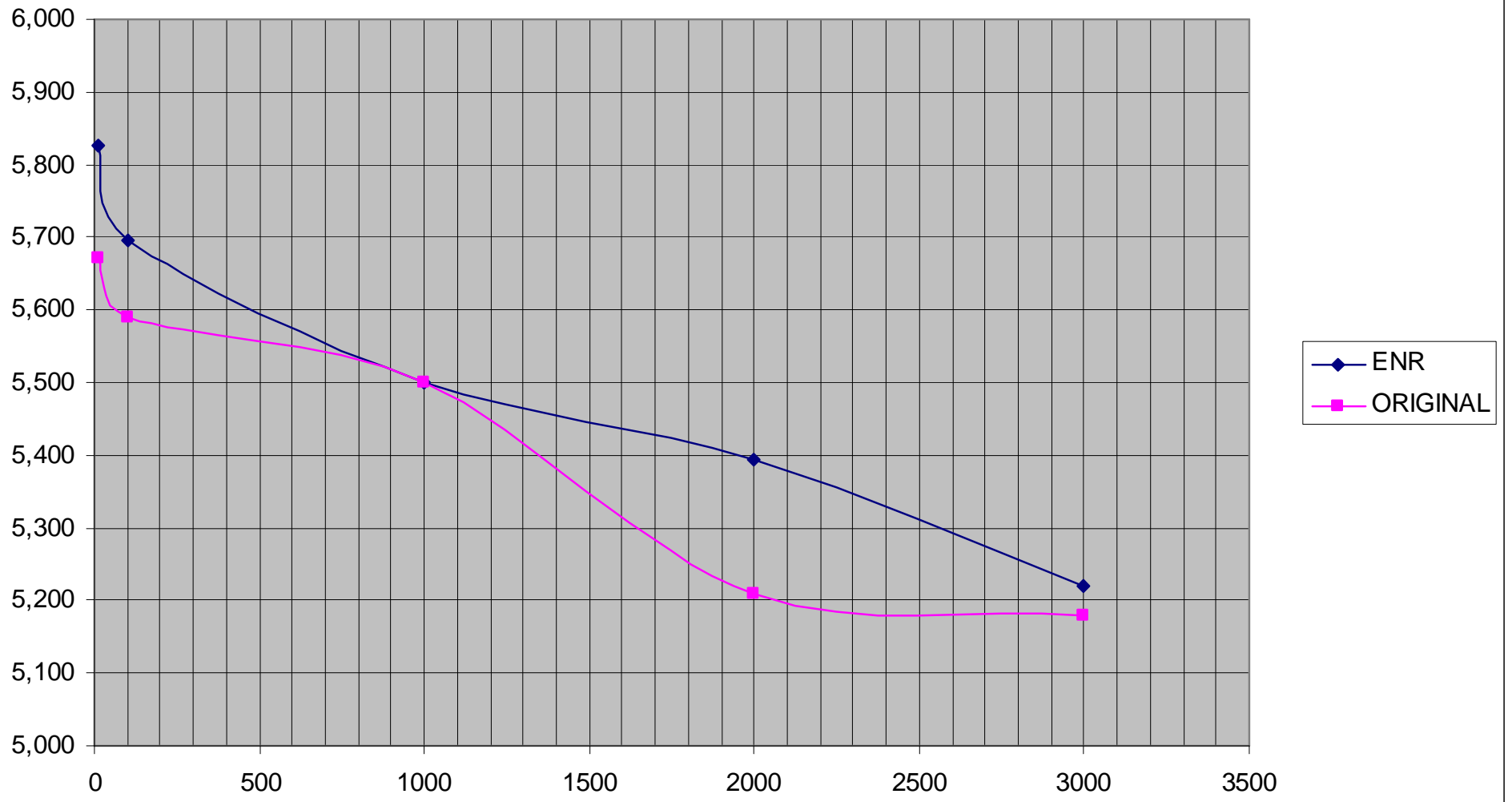
AIL7616



AL07615



DJ8FR 346A



SM4IVE +10dB att

