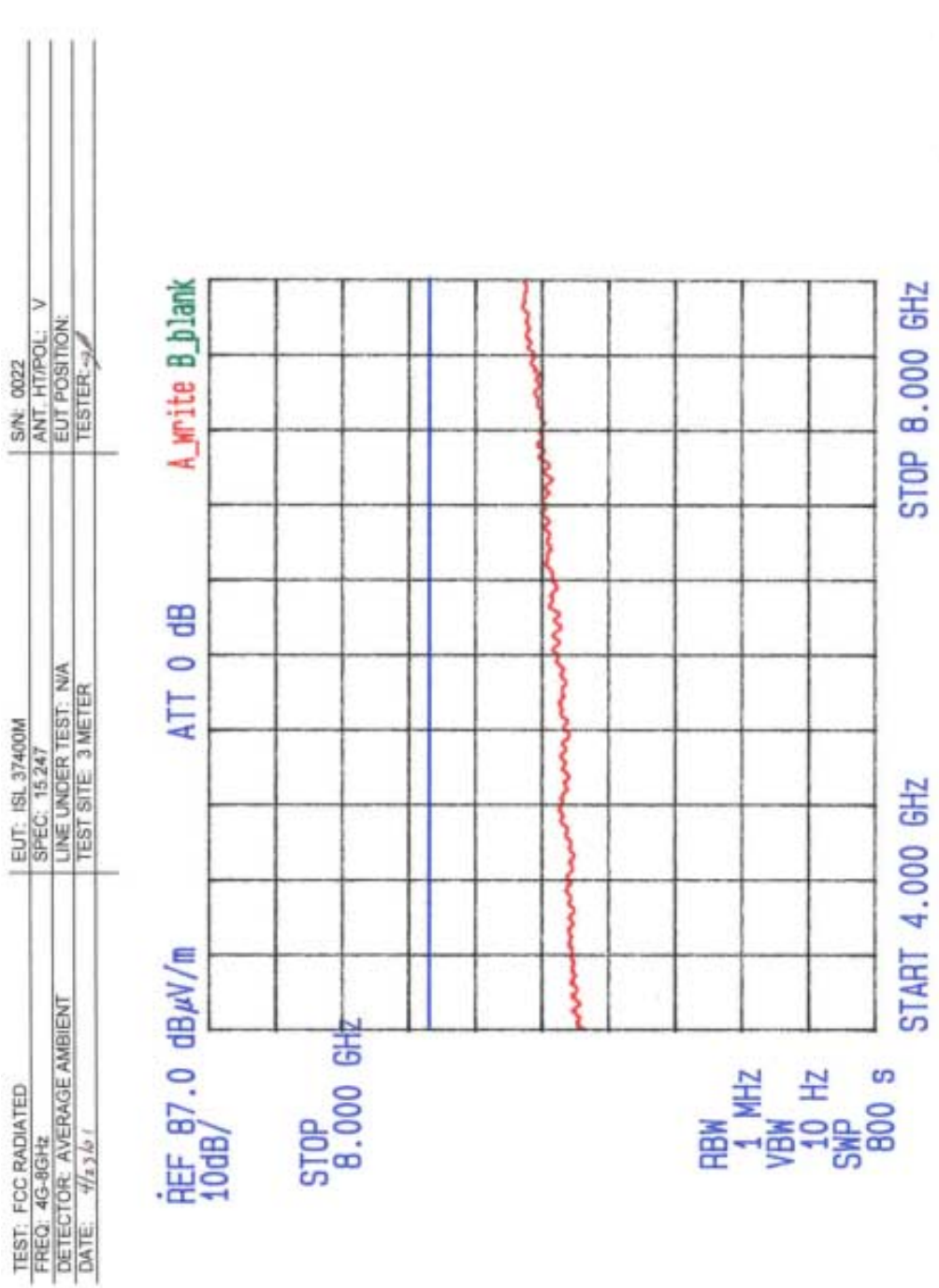
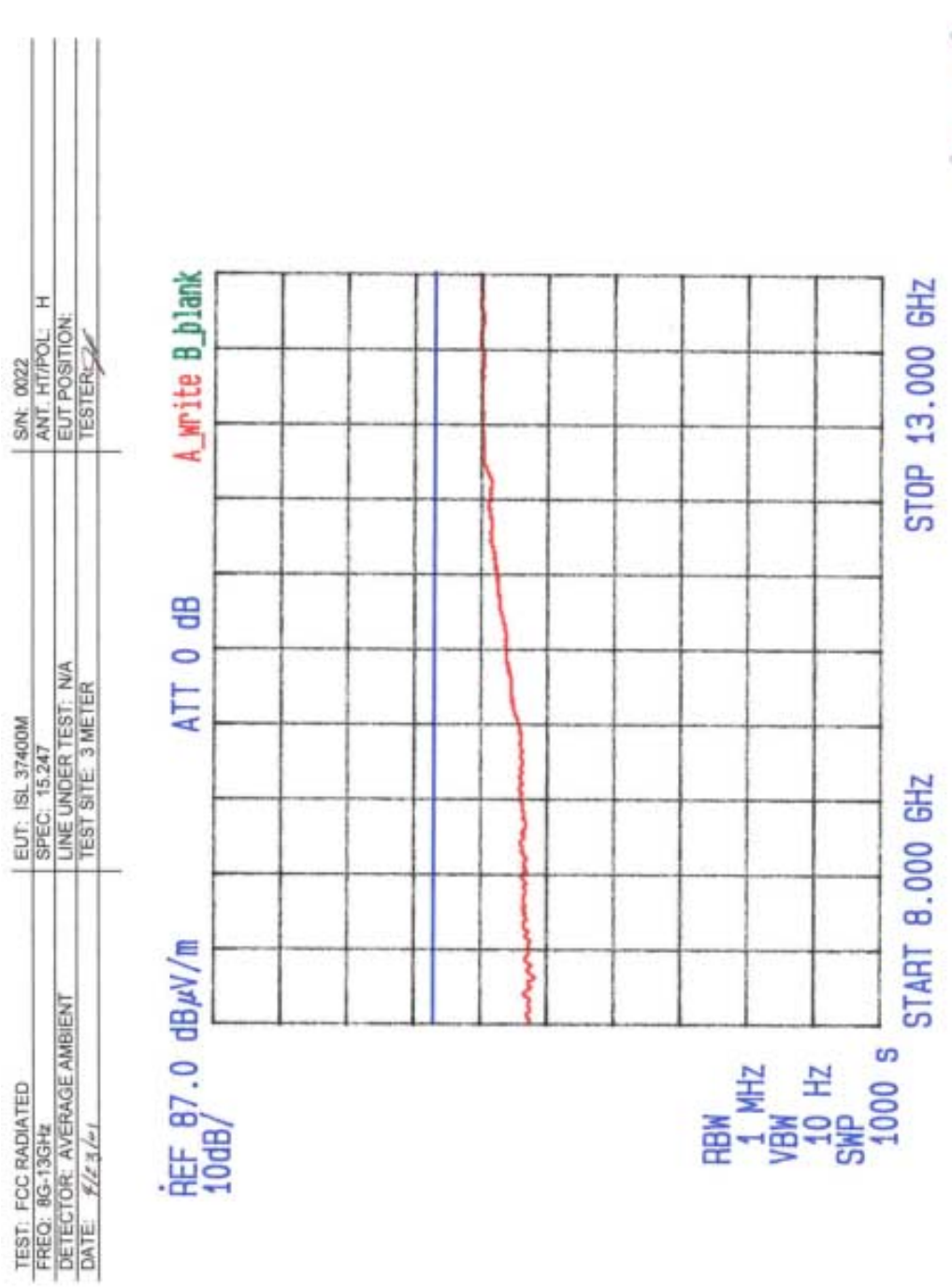


DATA SHEET 6.3.3-16



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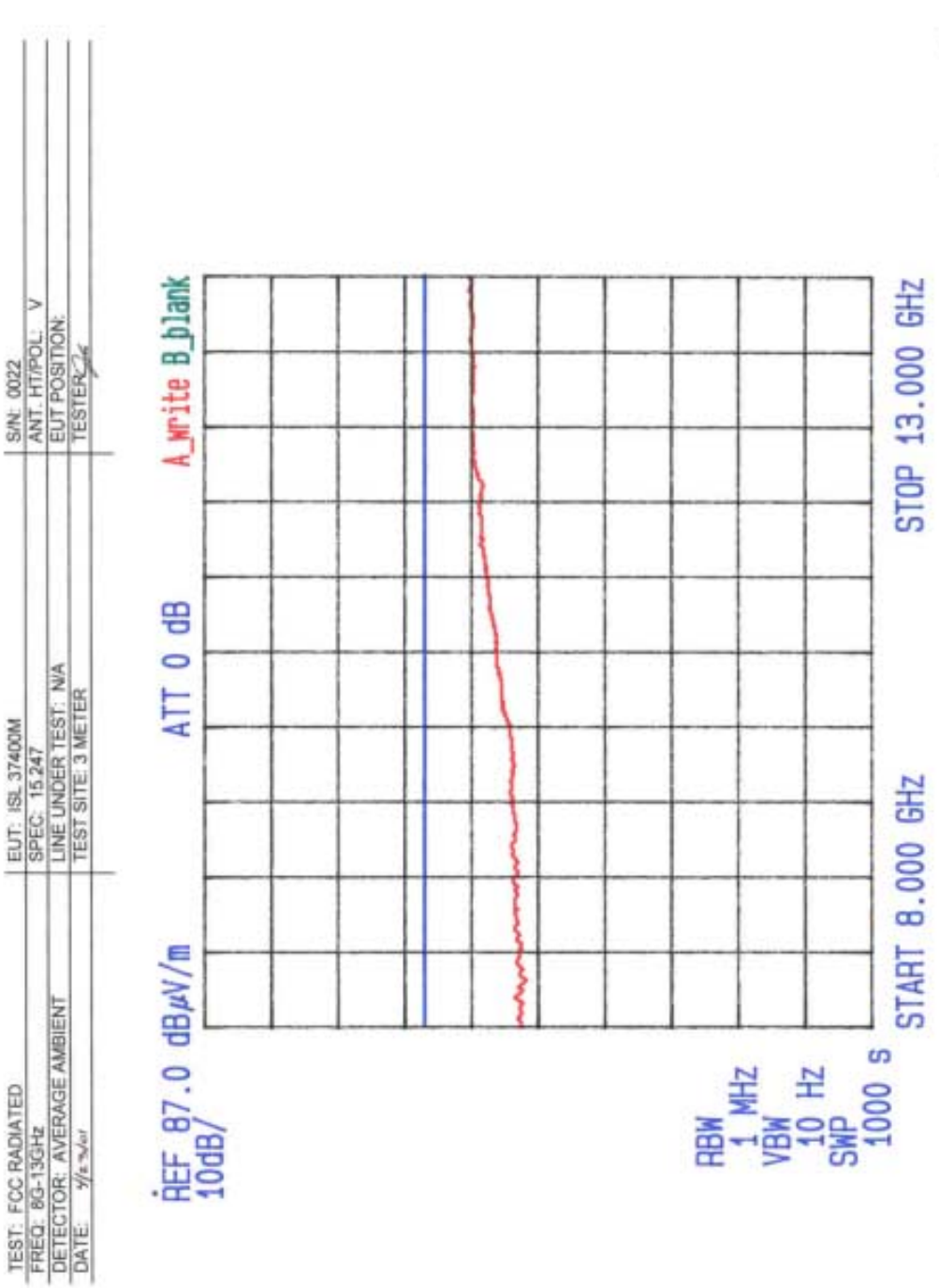
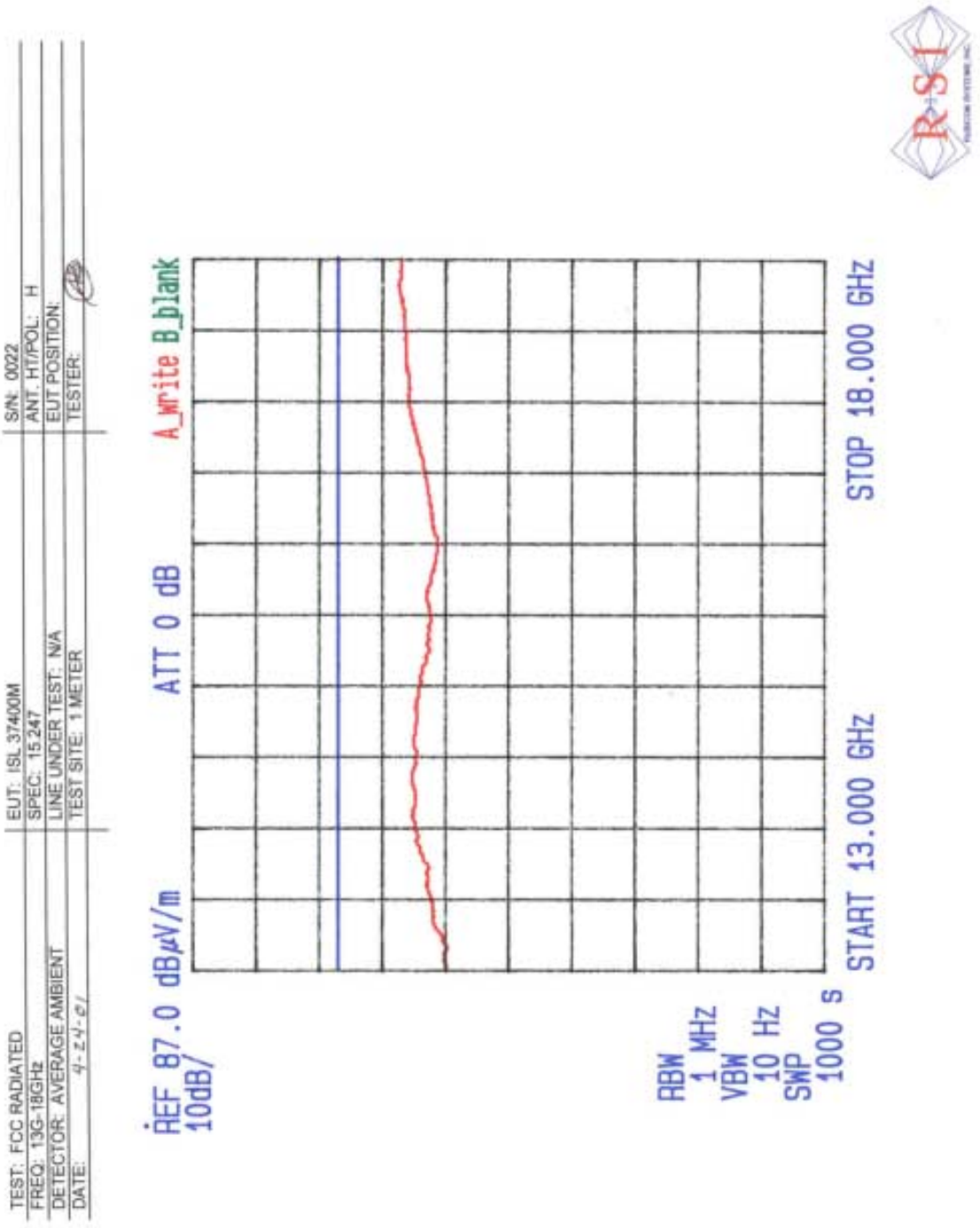
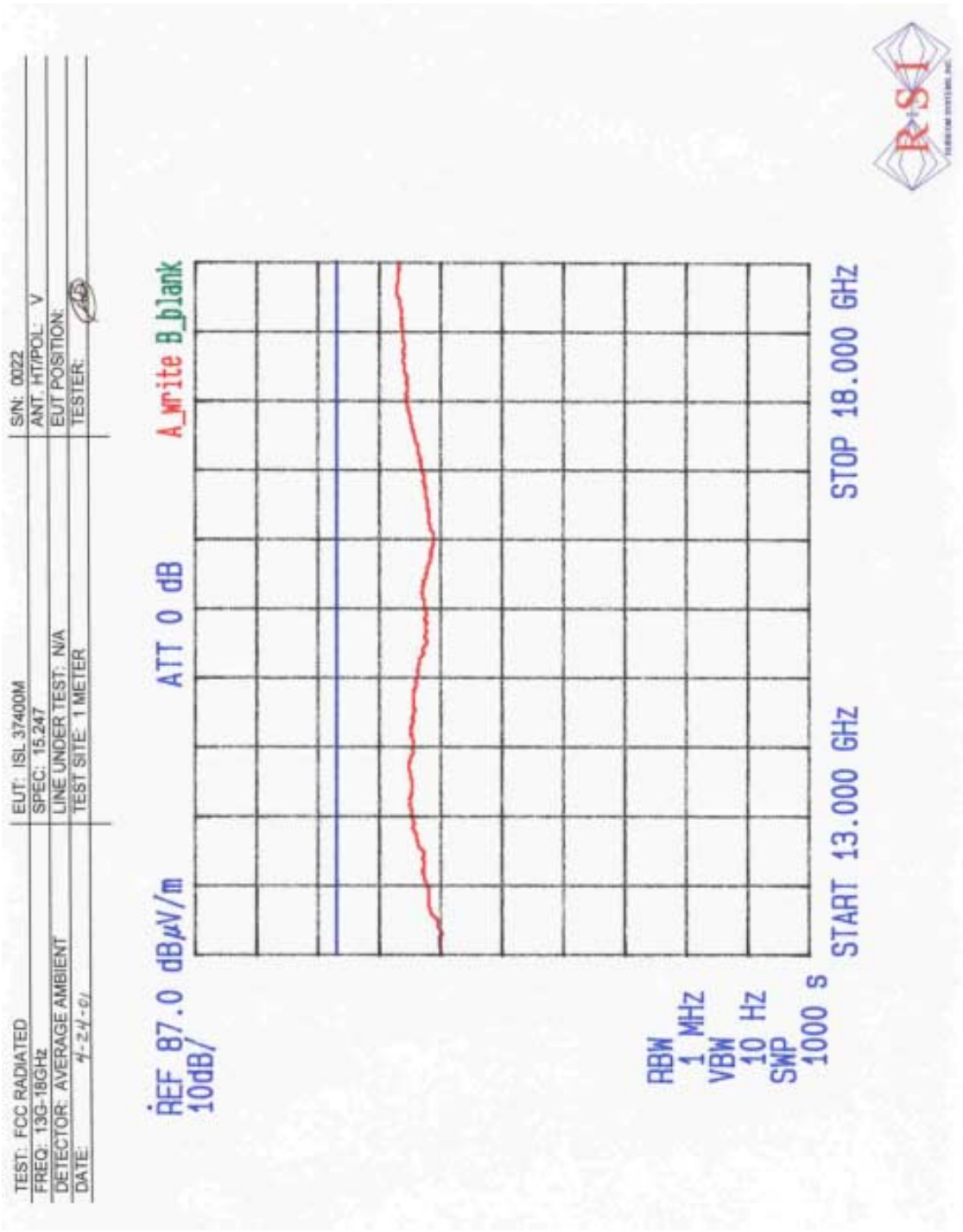


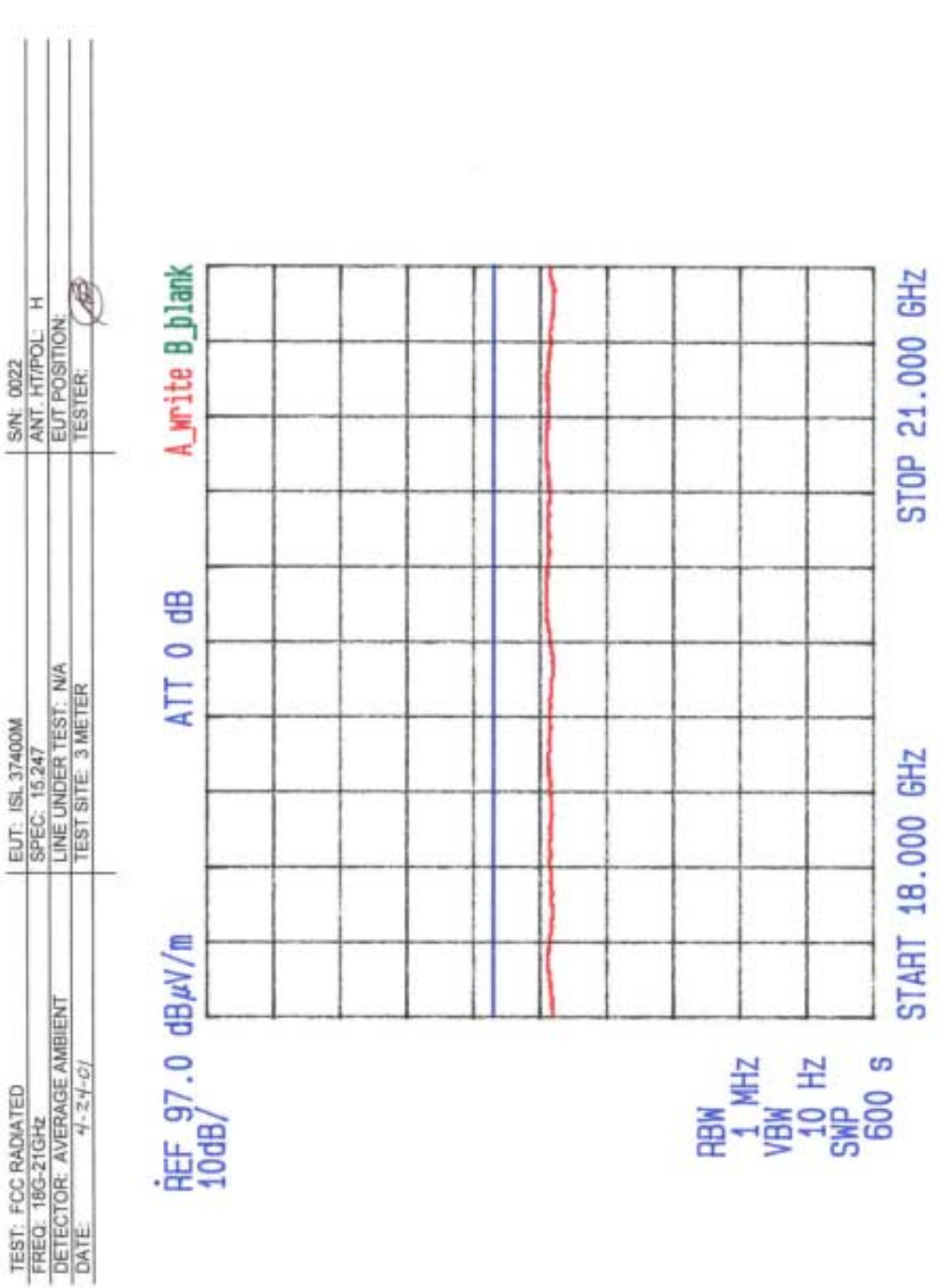
DATA SHEET 6.3.3-18



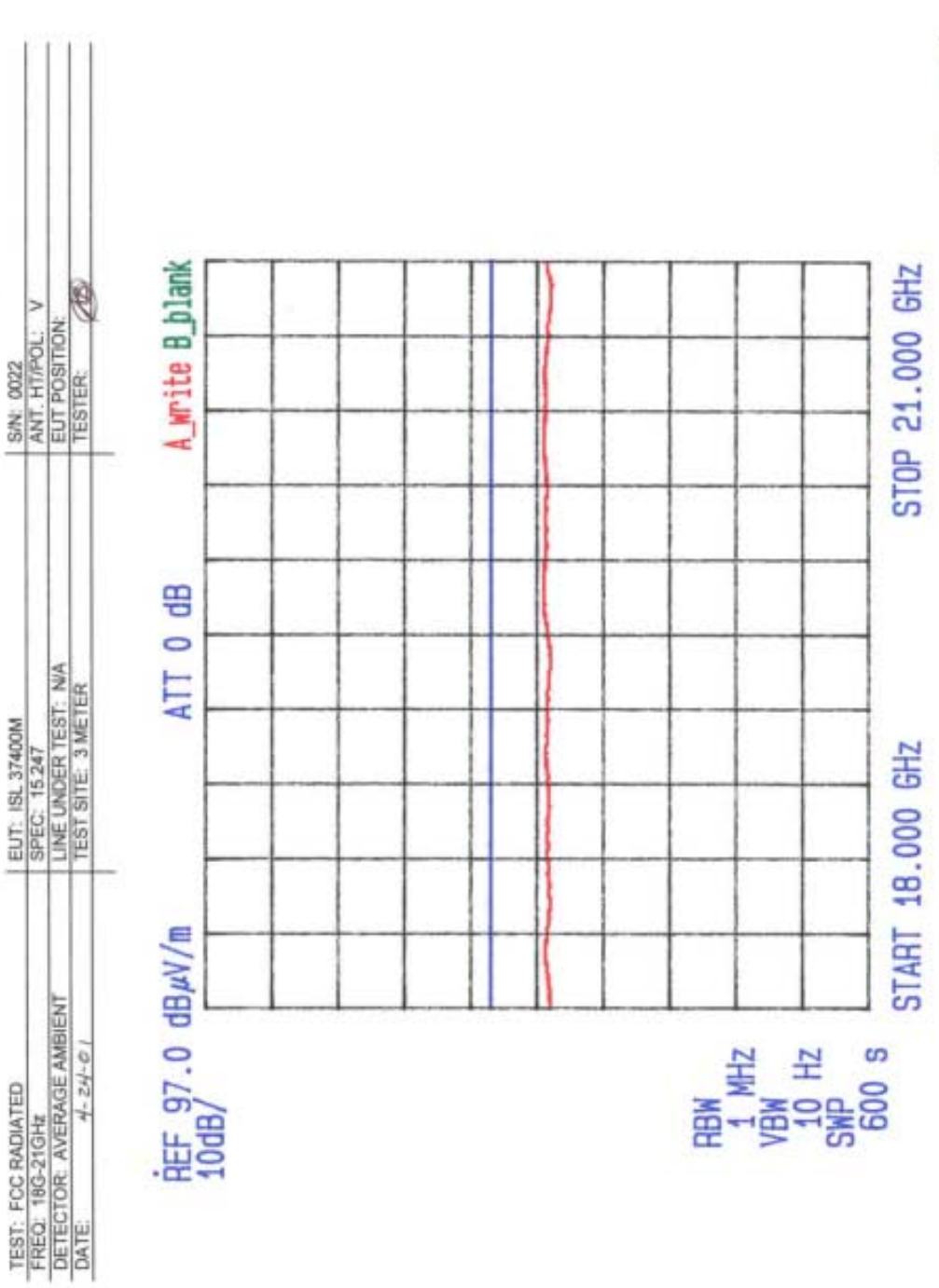
DATA SHEET 6.3.3-19



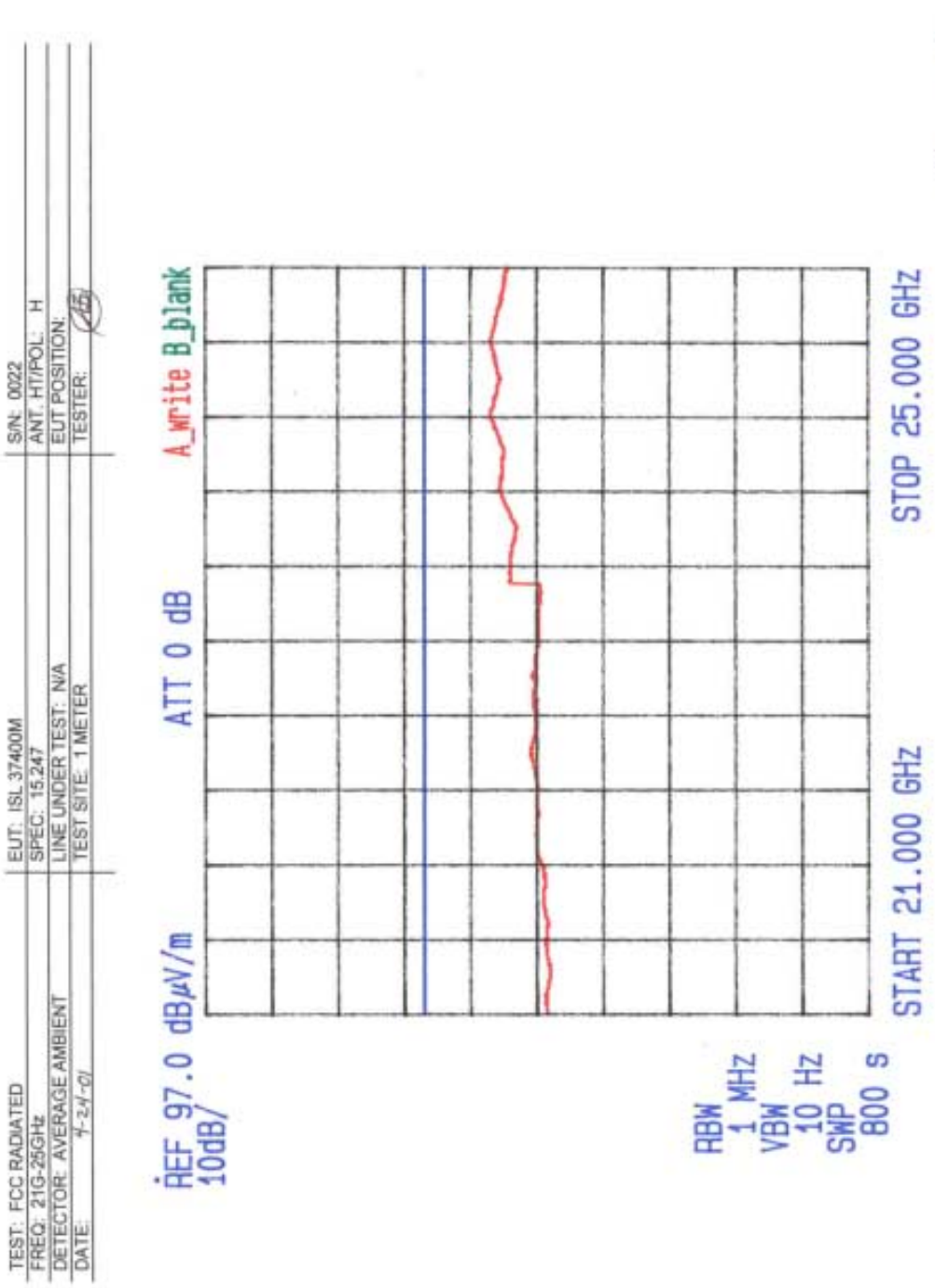
DATA SHEET 6.3.3-20



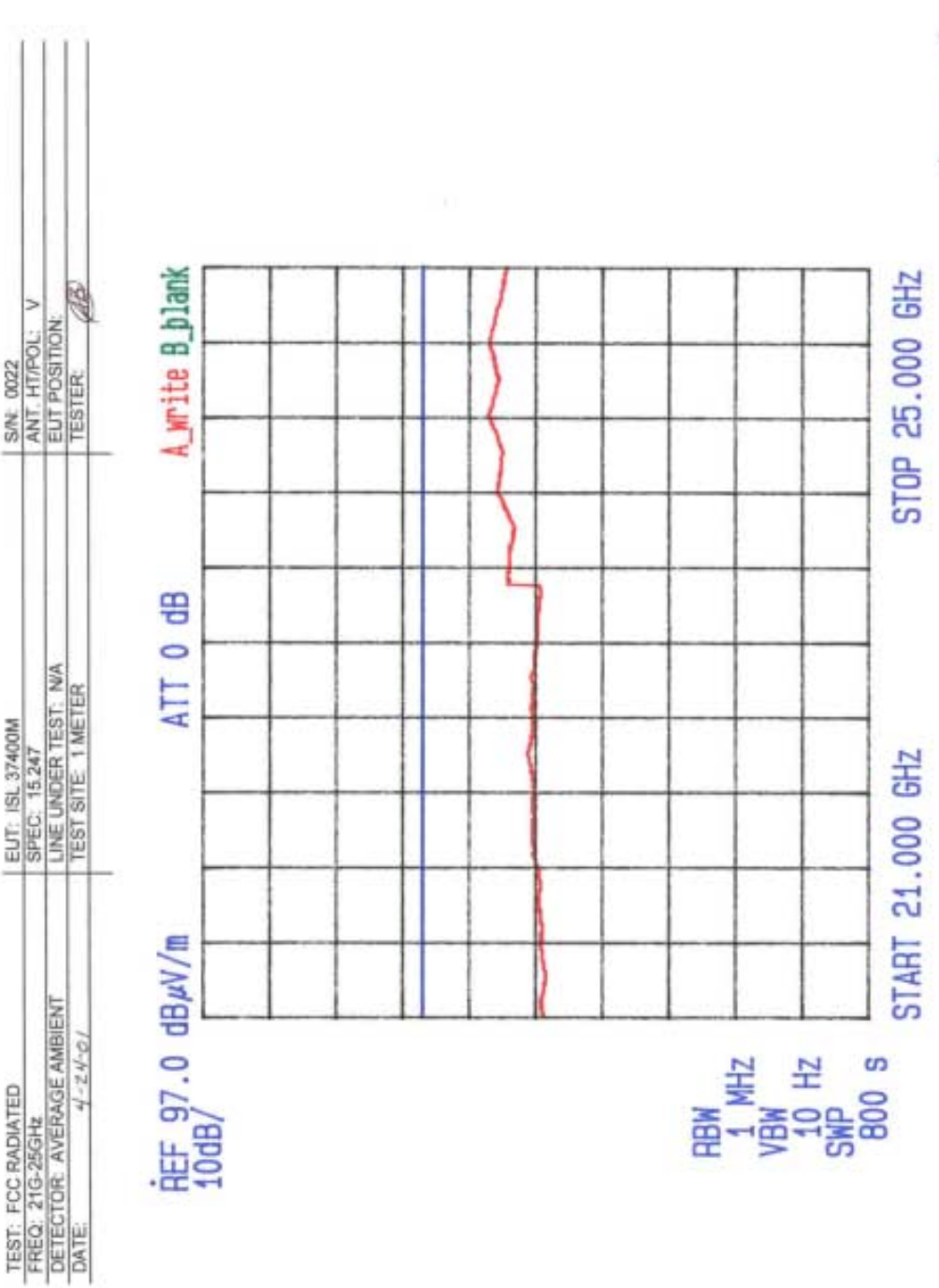
DATA SHEET 6.3.3-21



DATA SHEET 6.3.3-22



DATA SHEET 6.3.3-23



DATA SHEET 6.3.3-24

6.4 Operation Within The Bands (2.4GHz-2.4835GHz) 15.204(2)(b)(c)(d)

6.4.1 6dB Bandwidth 15.247(2)

The minimum 6dB bandwidth must be greater than 500KHz. Data Sheets 6.4.1-1 through 6.4.1-6 show the measured 6dB points to give bandwidths between 10.8 and 11.5MHz at the MIN, MID and MAX frequency tested. Data plots were made for the MIN and MAX data rates. The system exceeds the 500KHz minimum bandwidth.

Photo 3 is representative of the 6dB bandwidth setup.

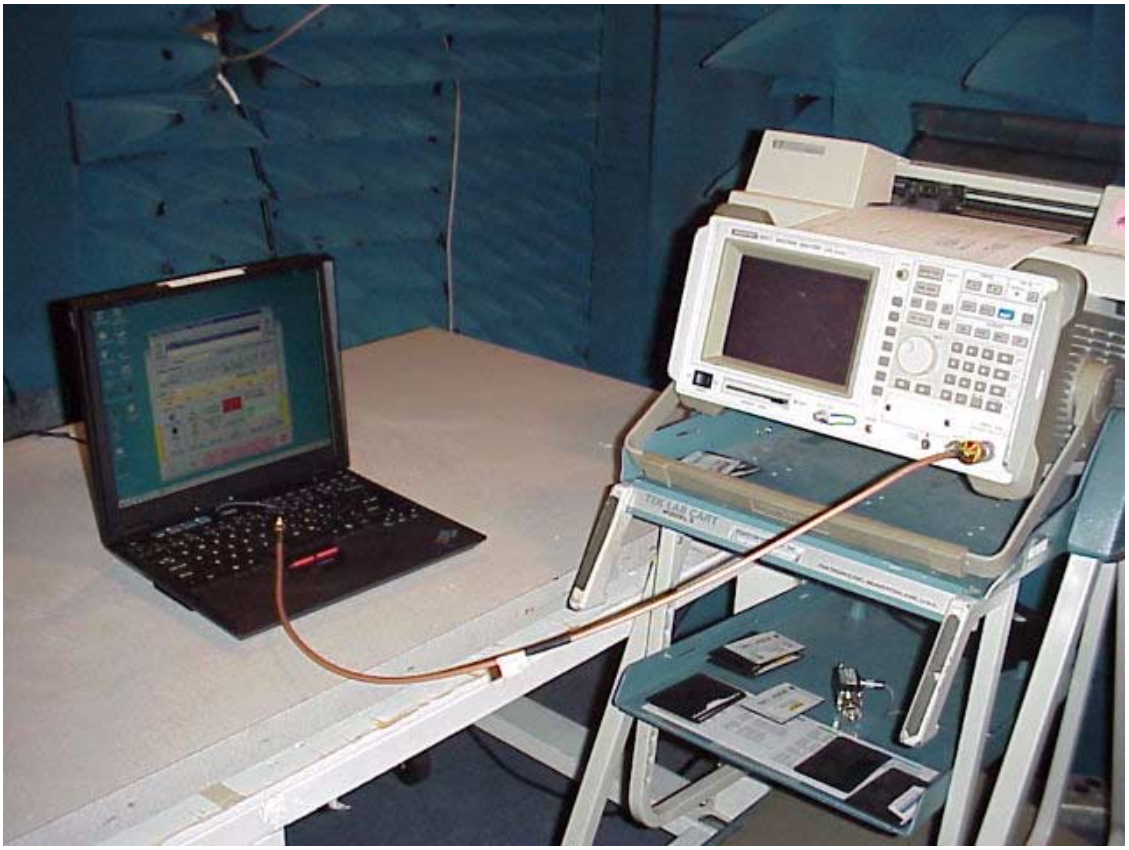
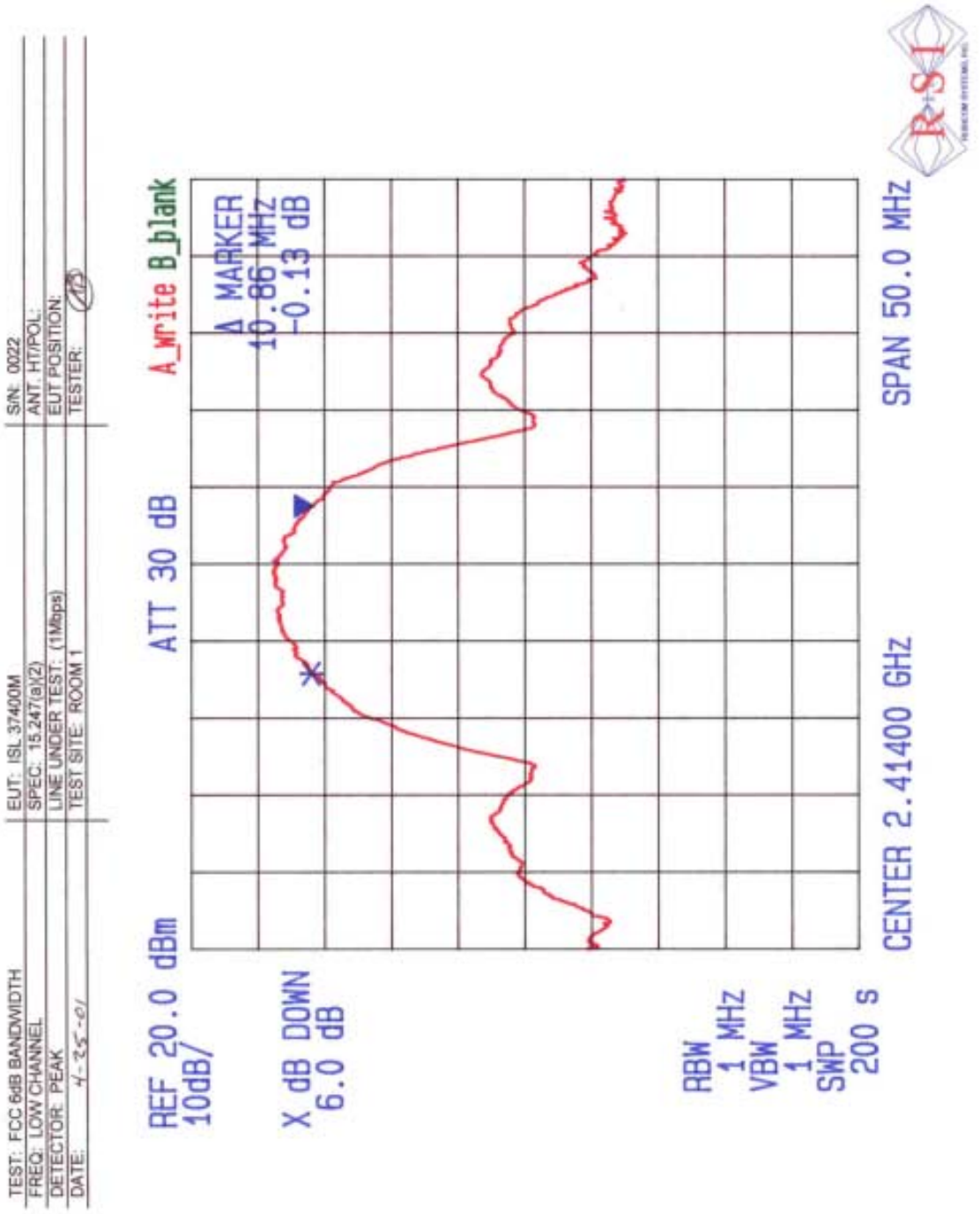
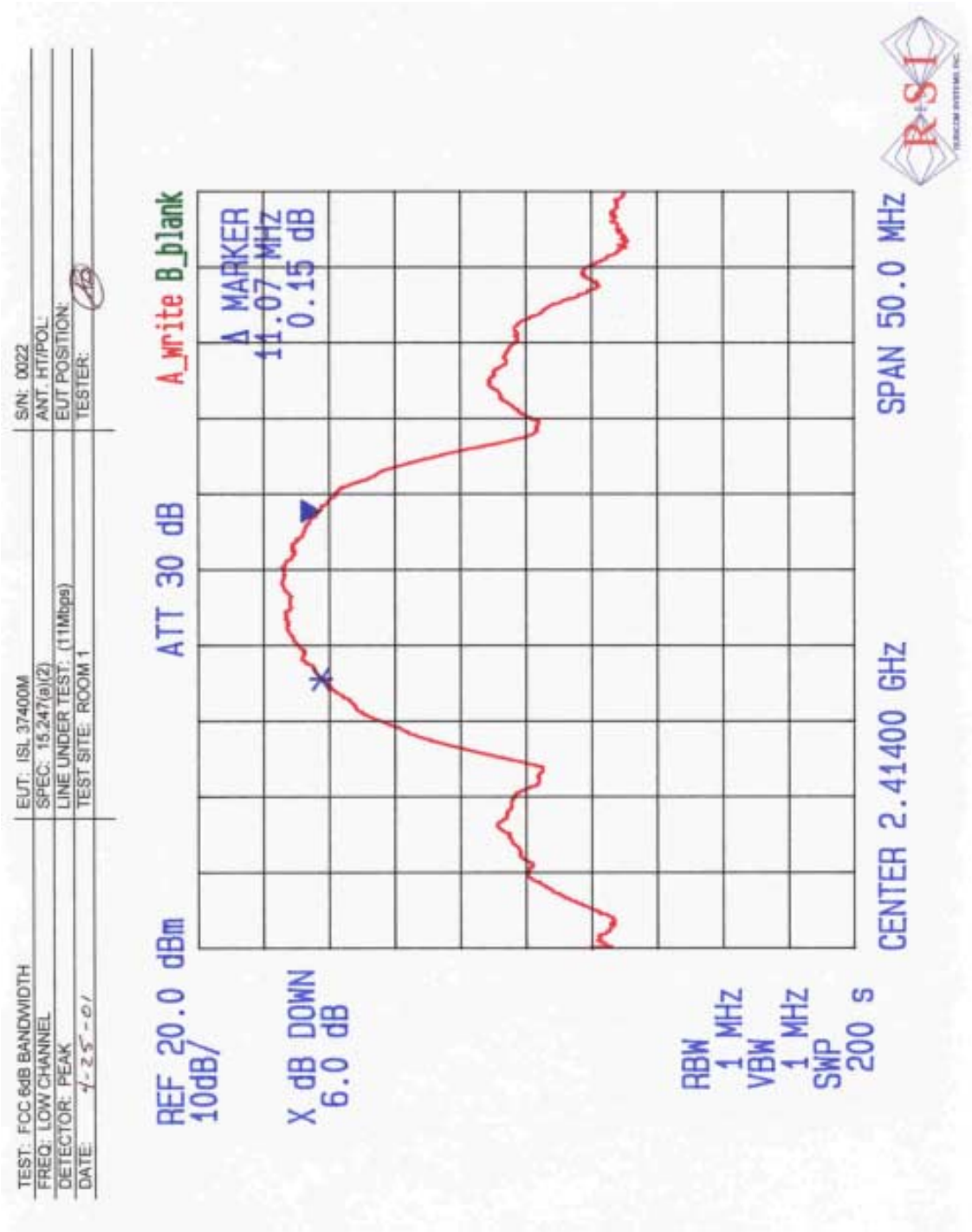


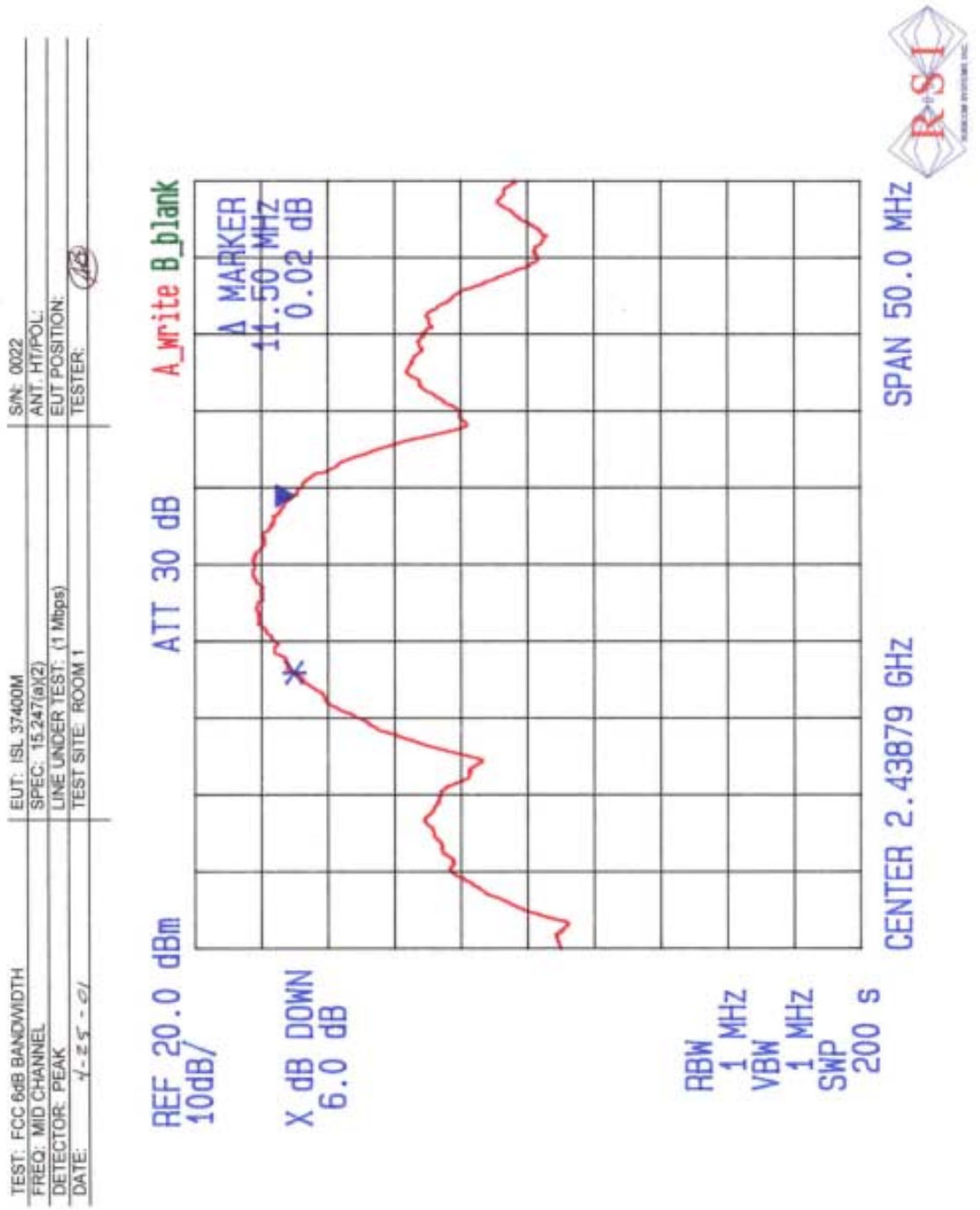
PHOTO 3



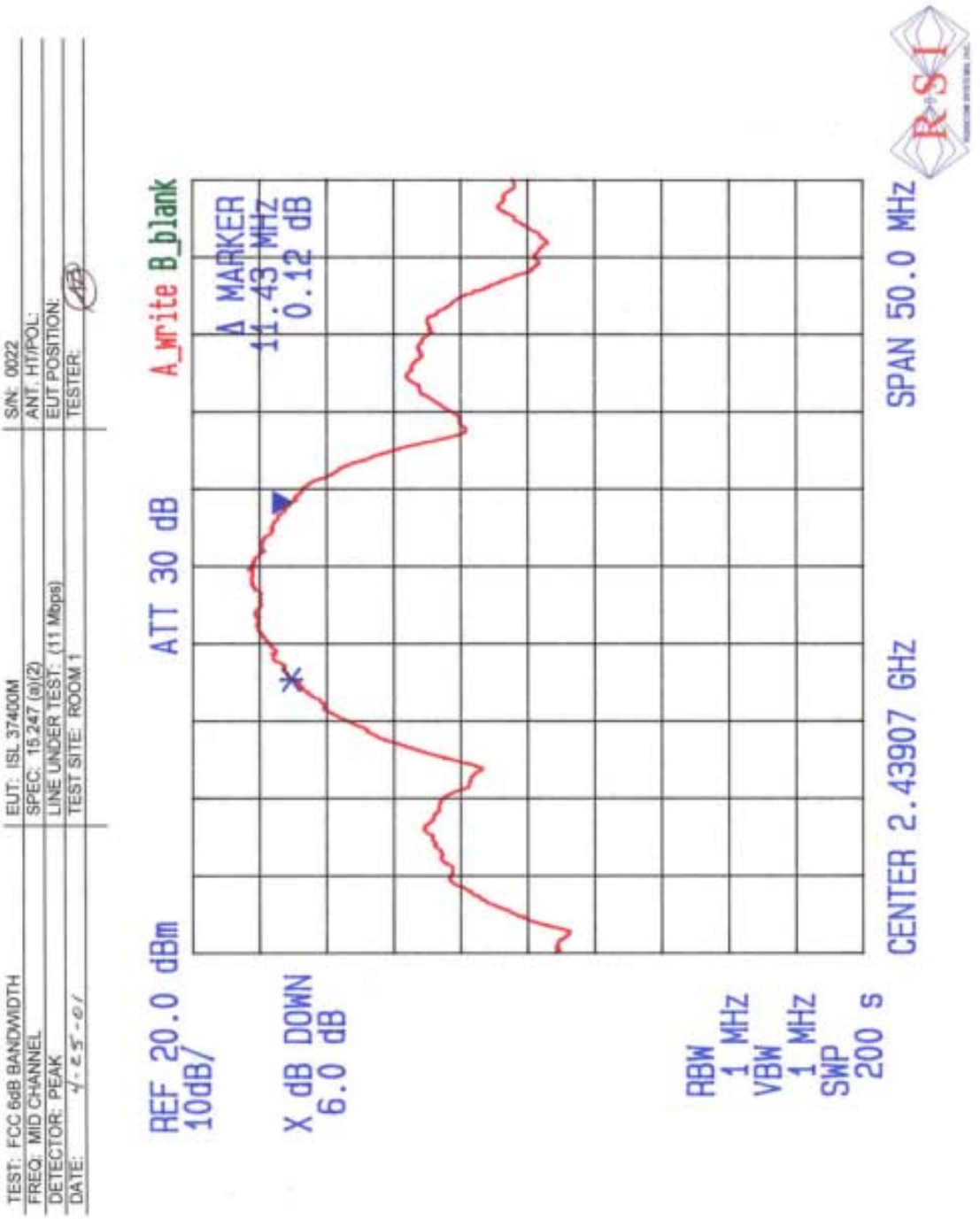
DATA SHEET 6.4.1-1



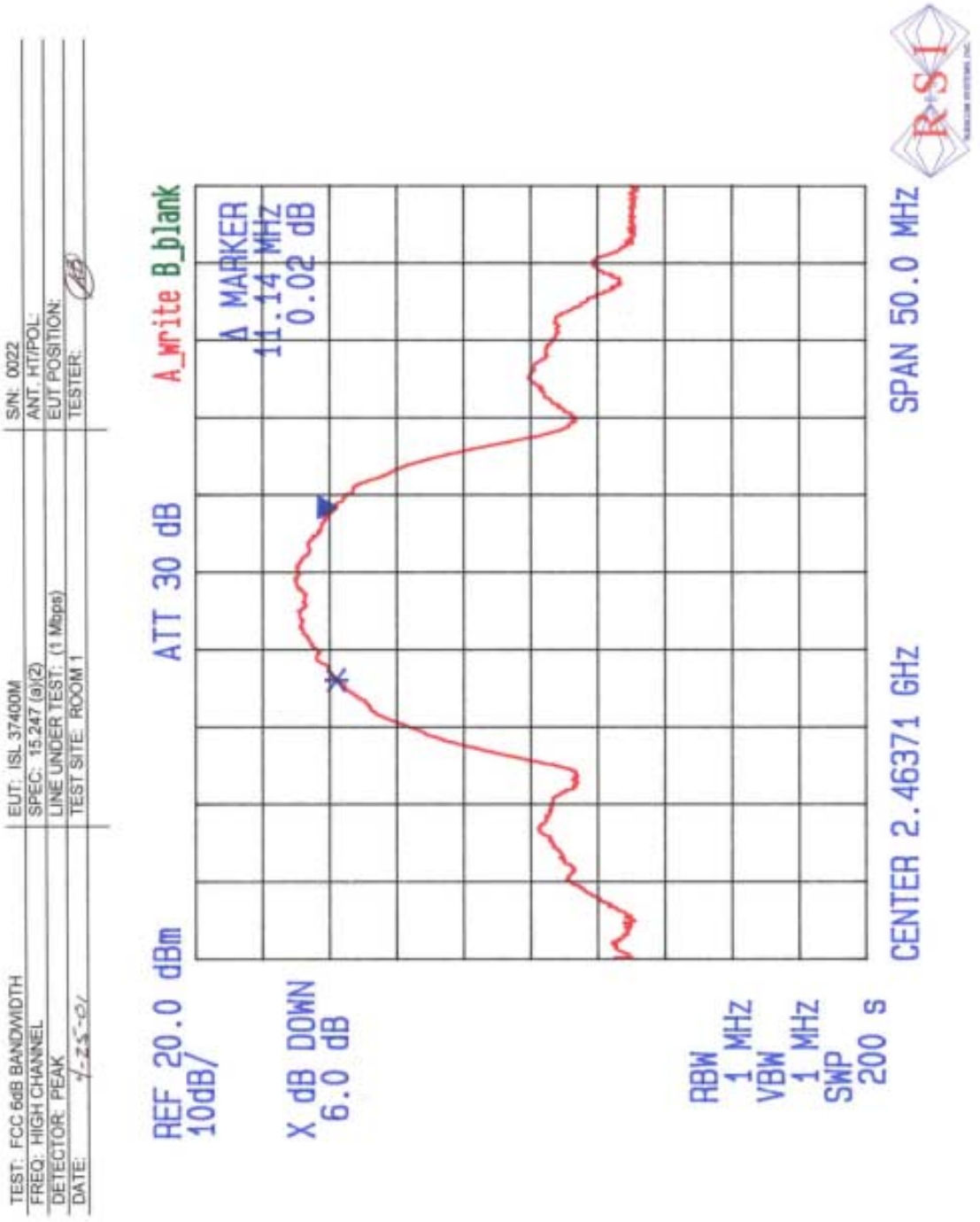
DATA SHEET 6.4.1-2



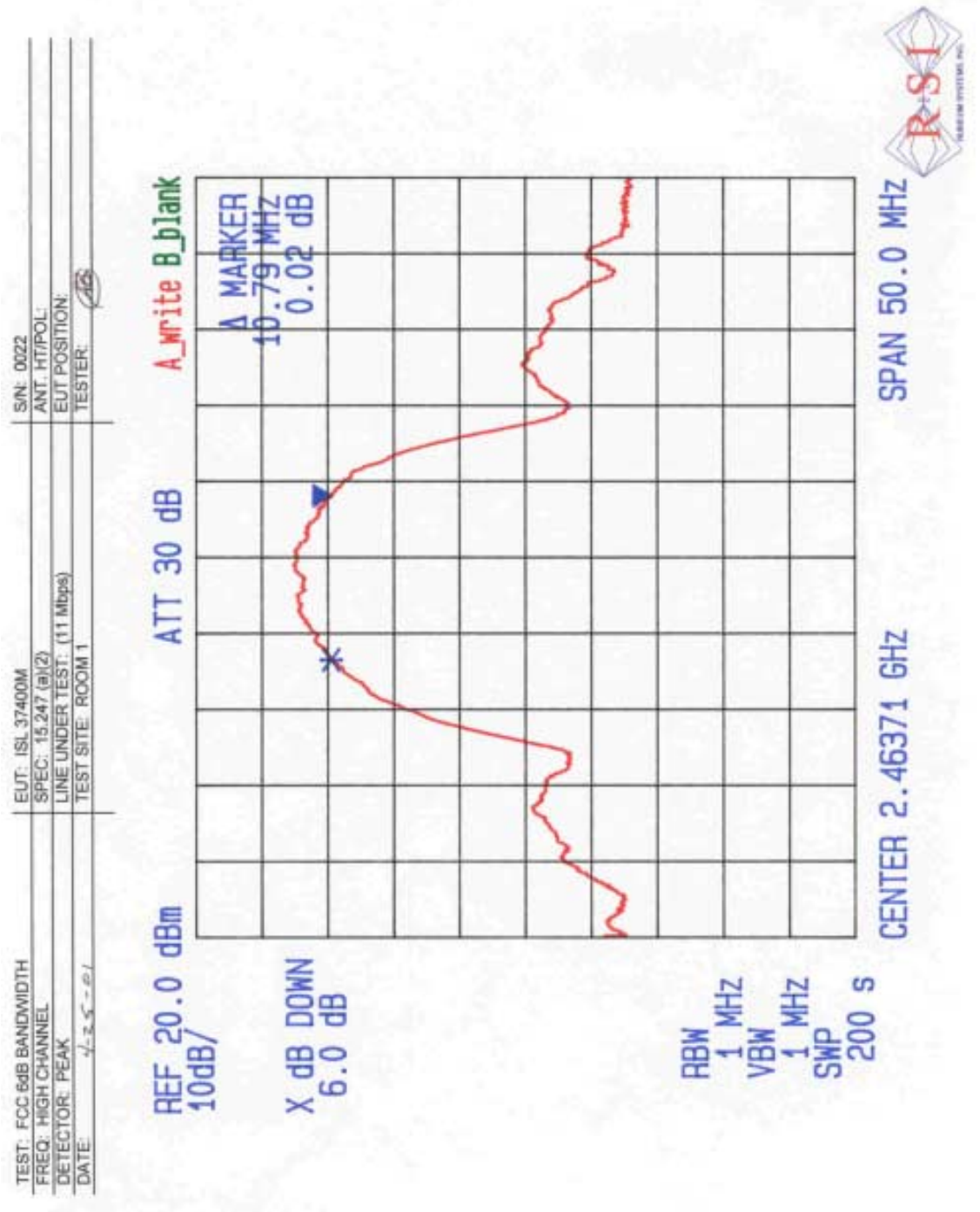
DATA SHEET 6.4.1-3



DATA SHEET 6.4.1-4



DATA SHEET 6.4.1-5



DATA SHEET 6.4.1-6

6.4.2 Peak Output Power 15.247(2)(b)

The peak output power to the antenna shall not exceed 1 watt.

The equipment under test (EUT) was configured to continuously transmit. The highest emission level within the authorized band was measured. The peak power level is recorded below. The carrier frequency of the EUT was 2.412GHz, 2.437GHz and 2.462GHz. The MID, MIN and MAX data rates were used.

Photo 4 is representative of this setup.

The data is presented below for each frequency. All levels were below the 1 watt peak power limit.

MIN TX FREQ. 2.412GHz	DATA RATE MIN: -11.8dBw MID: -11.8dBw MAX: -11.9dBw
MID TX FREQ. 2.437GHz	DATA RATE MIN: -11.7dBw MID: -11.7dBw MAX: -11.8dBw
MAX TX FREQ. 2.462GHz	DATA RATE MIN: -12.0dBw MID: -11.9dBw MAX: -12.1dBw

6.4.3 Out of Band Emission 15.247(2)(c)

Out of band measurements were made on the antenna port of the RF unit. The measurement was made over the 1-25GHz range using the 100KHz RBW. Data Sheets 6.4.3-1 through 6.4.3-12 present the transmit and receive scans across the entire range at the MIN, MID and MAX channels at MIN and MAX modulation rates. The plots demonstrate that there is greater than 20dB separation between the intended signal and any other signals in the range.

Data Sheet 6.4.3-13 is included to show the spectrum analyzer setup for restricted band testing where the start frequency and marker number “1” represented one restricted band (2.310-2.390GHz). Marker number “2” is the beginning of the 2.4835-2.5GHz restricted band. All signals falling into the restricted band were below

the display line, which represents the peak or average limit. These measurements were radiated measurements.

Data Sheets 6.4.3-14 through 6.4.3-37 present the peak and average measurements for the MIN, MID and MAX channels at the MIN and MAX data rates.

All signals that fall into the restricted bands are below the requirement of 15.209(a).

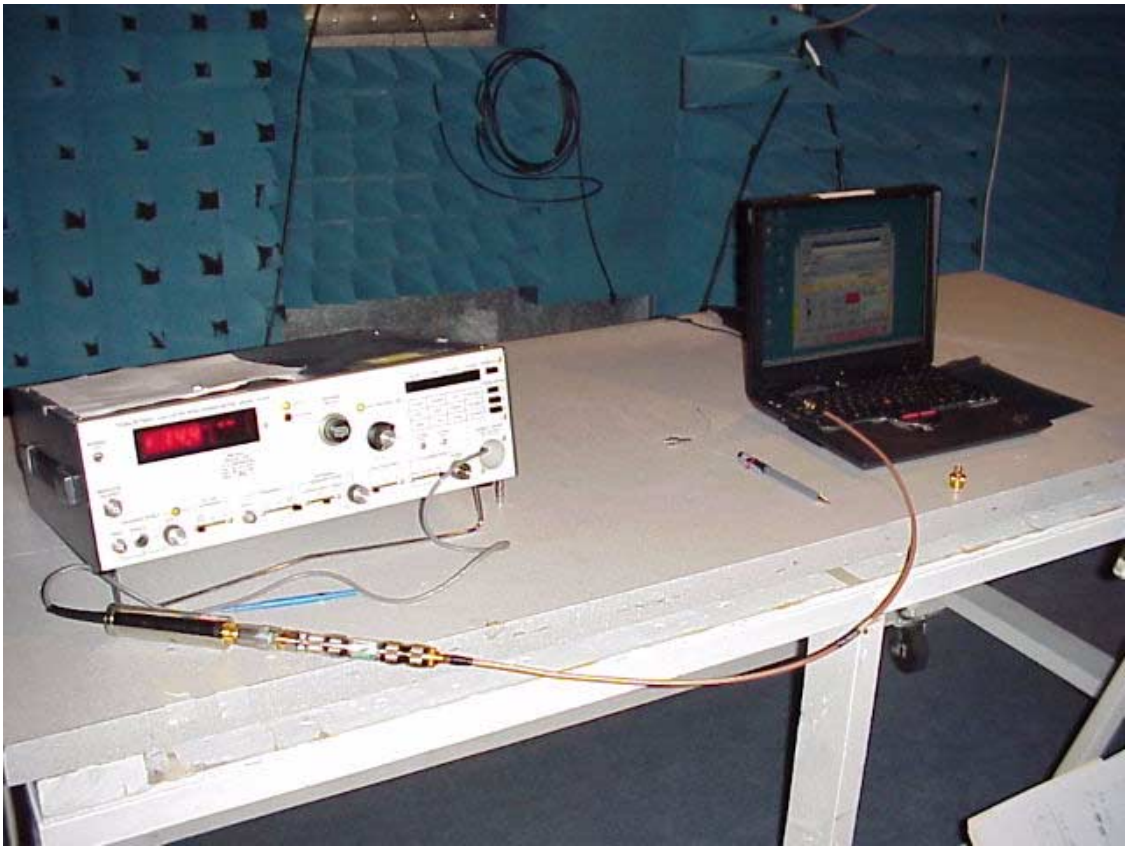
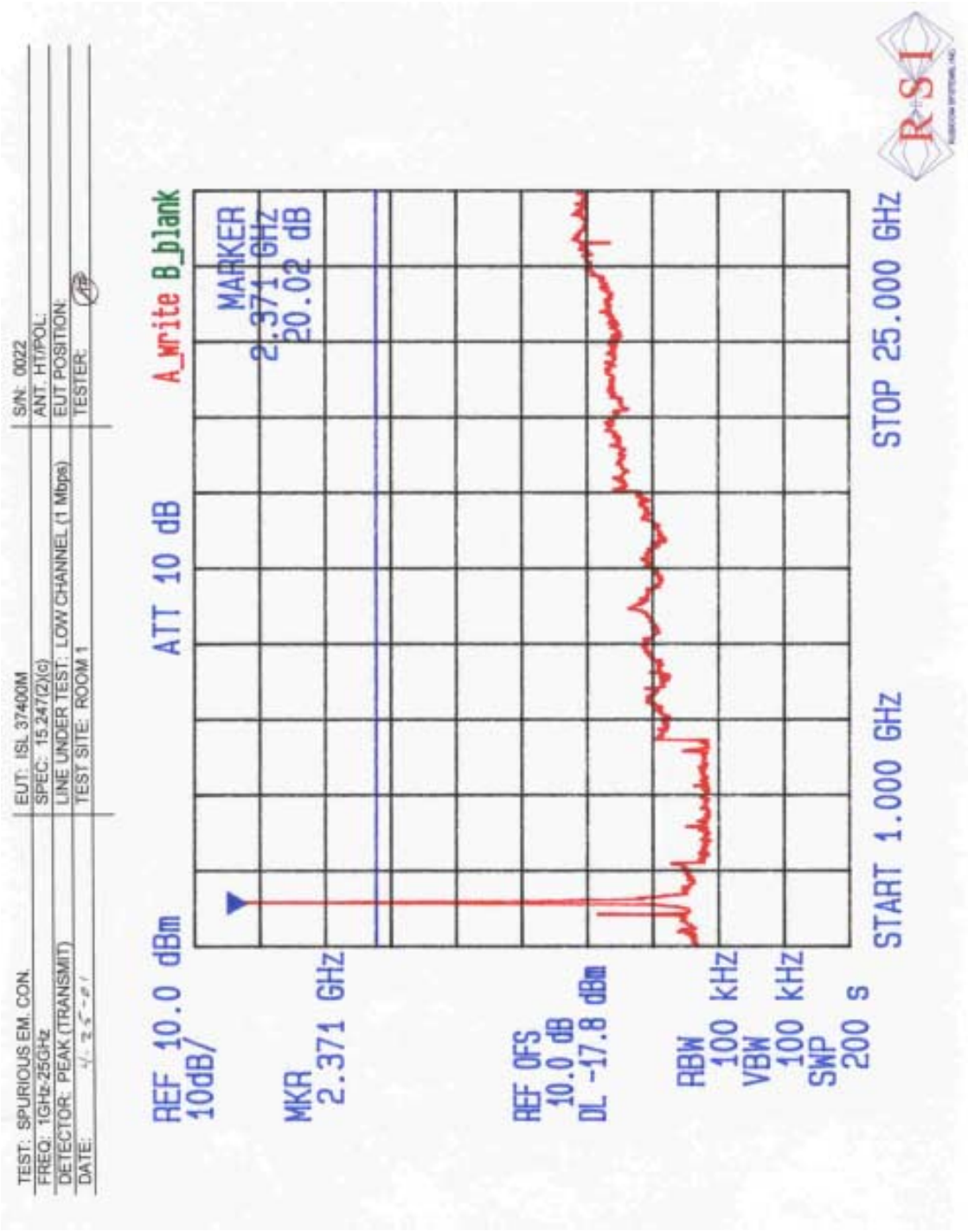
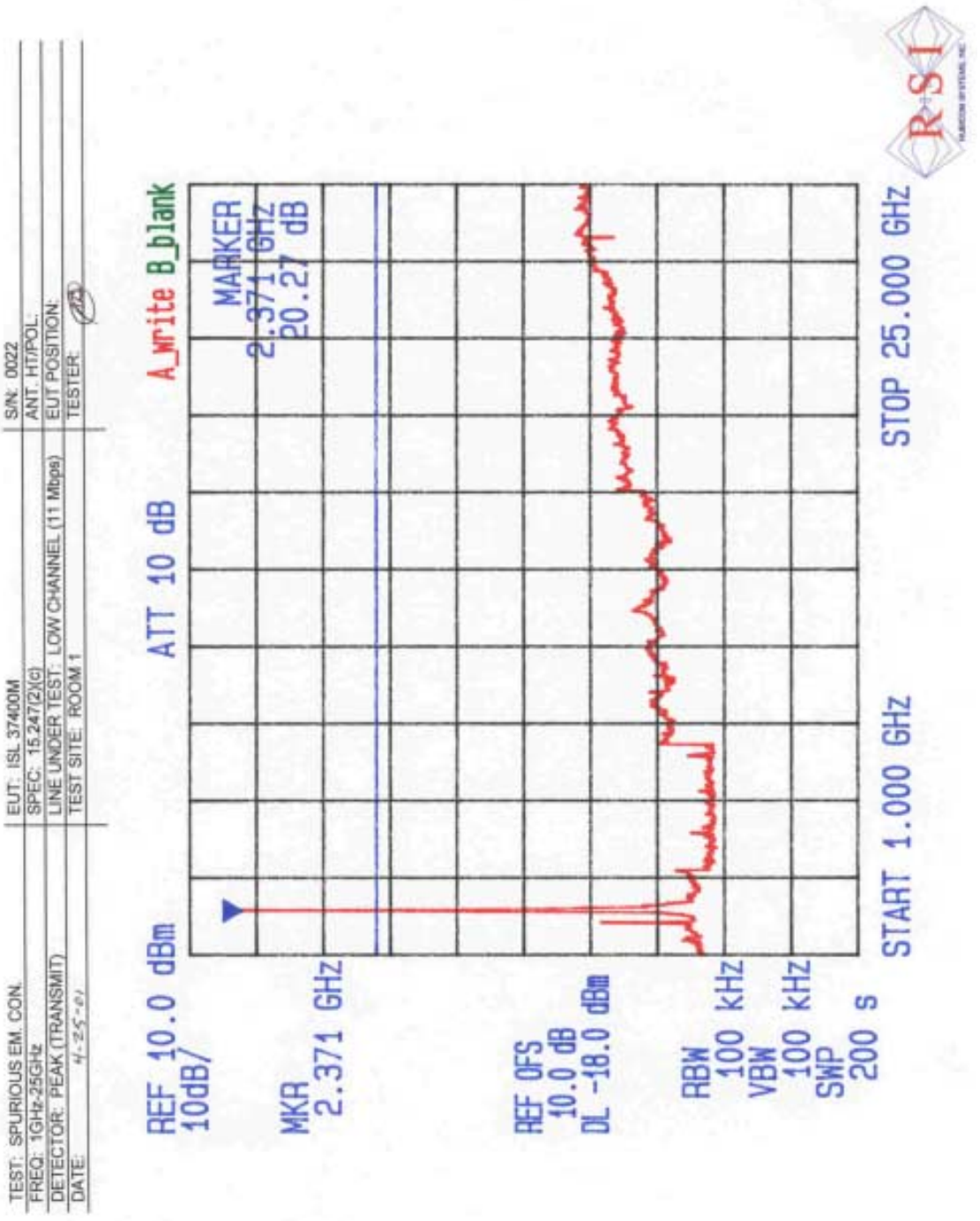


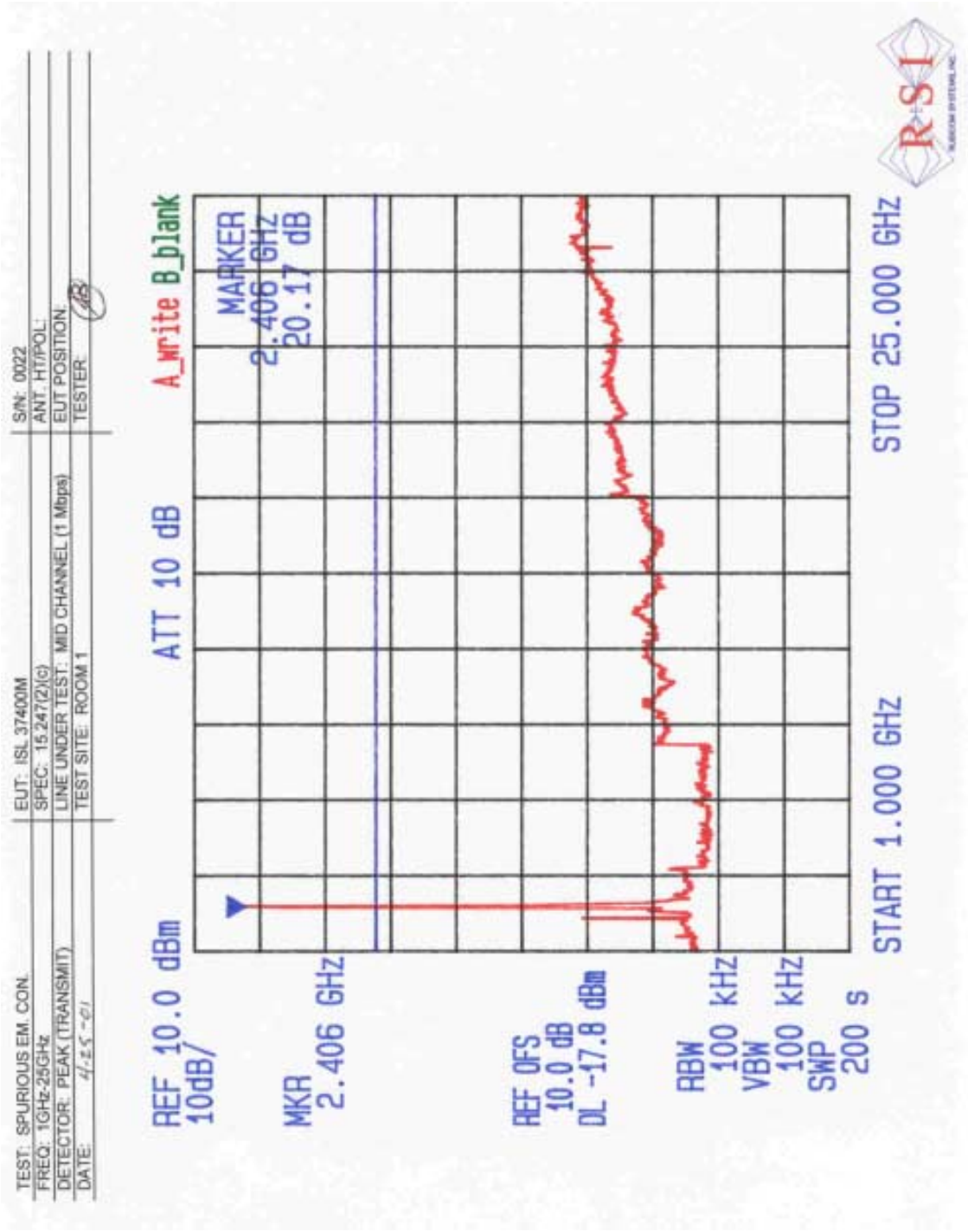
PHOTO 4



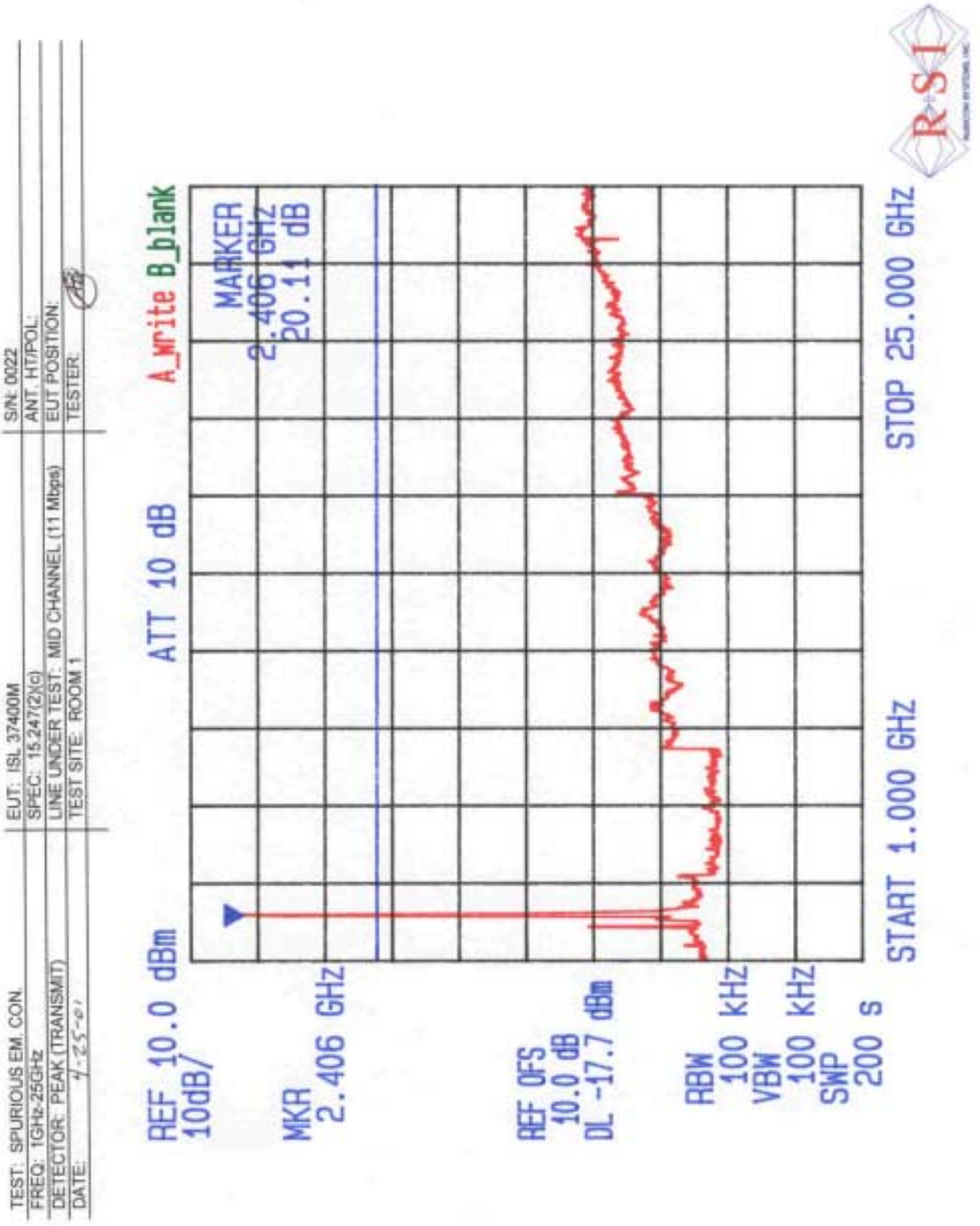
DATA SHEET 6.4.3-1



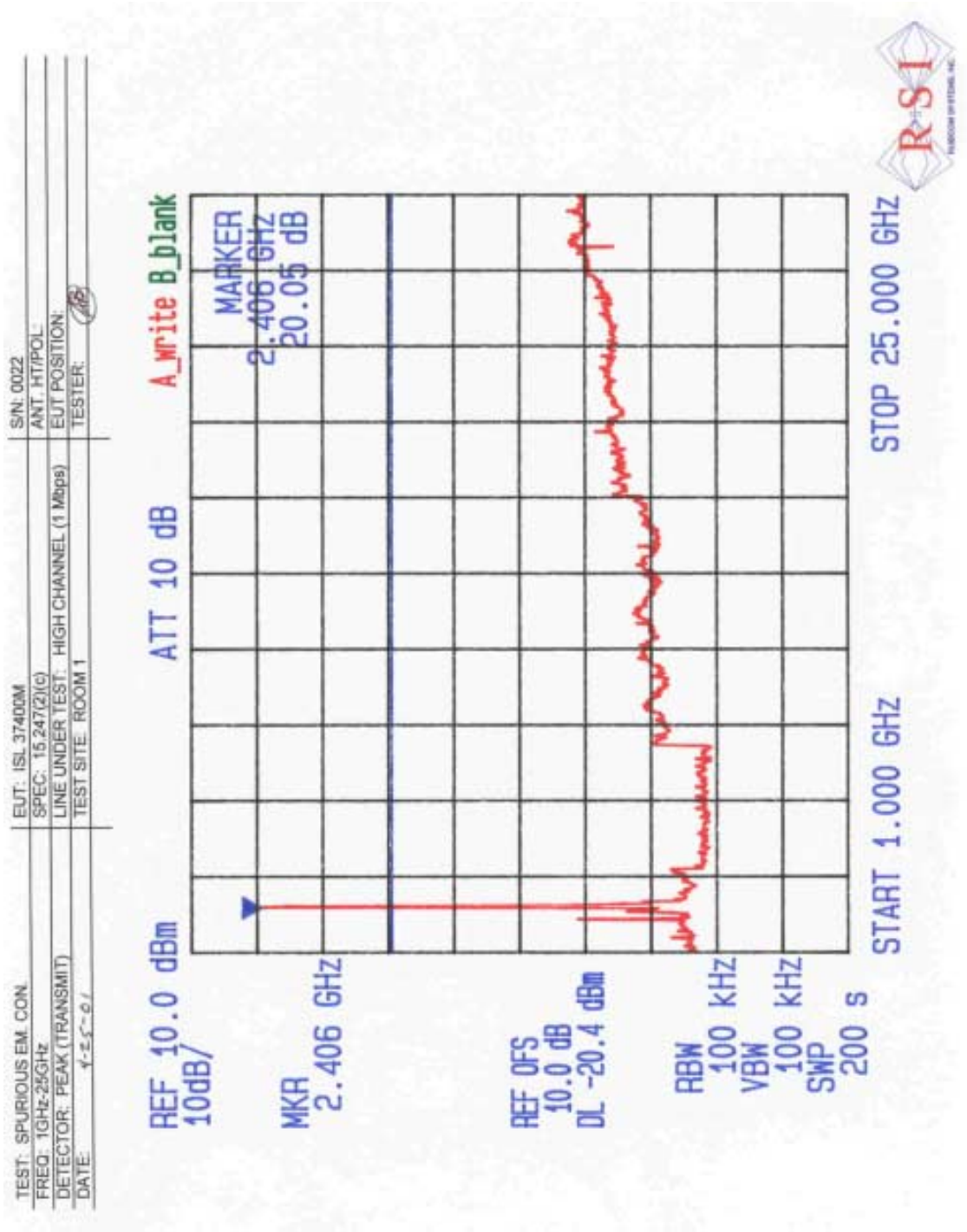
DATA SHEET 6.4.3-2



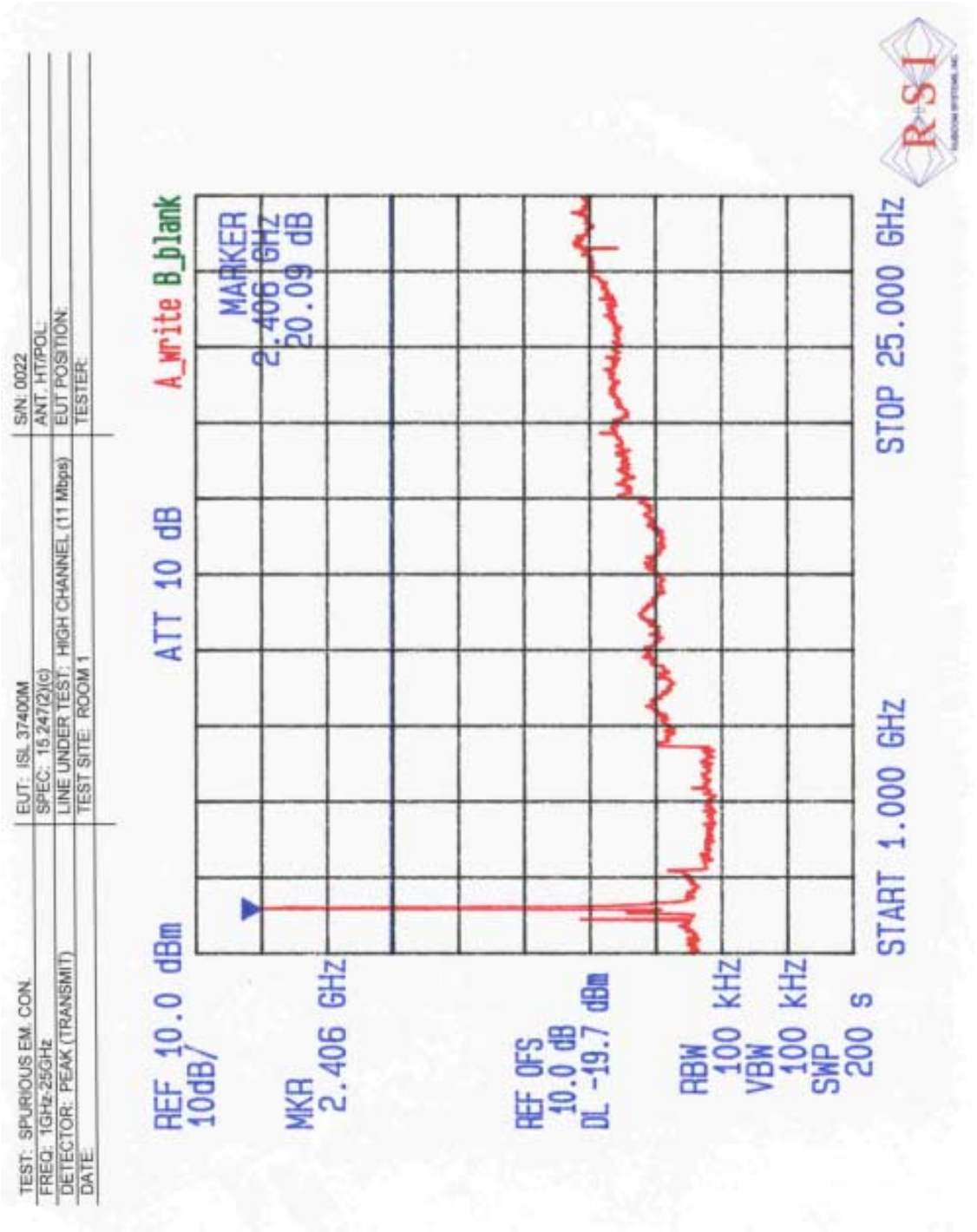
DATA SHEET 6.4.3-3



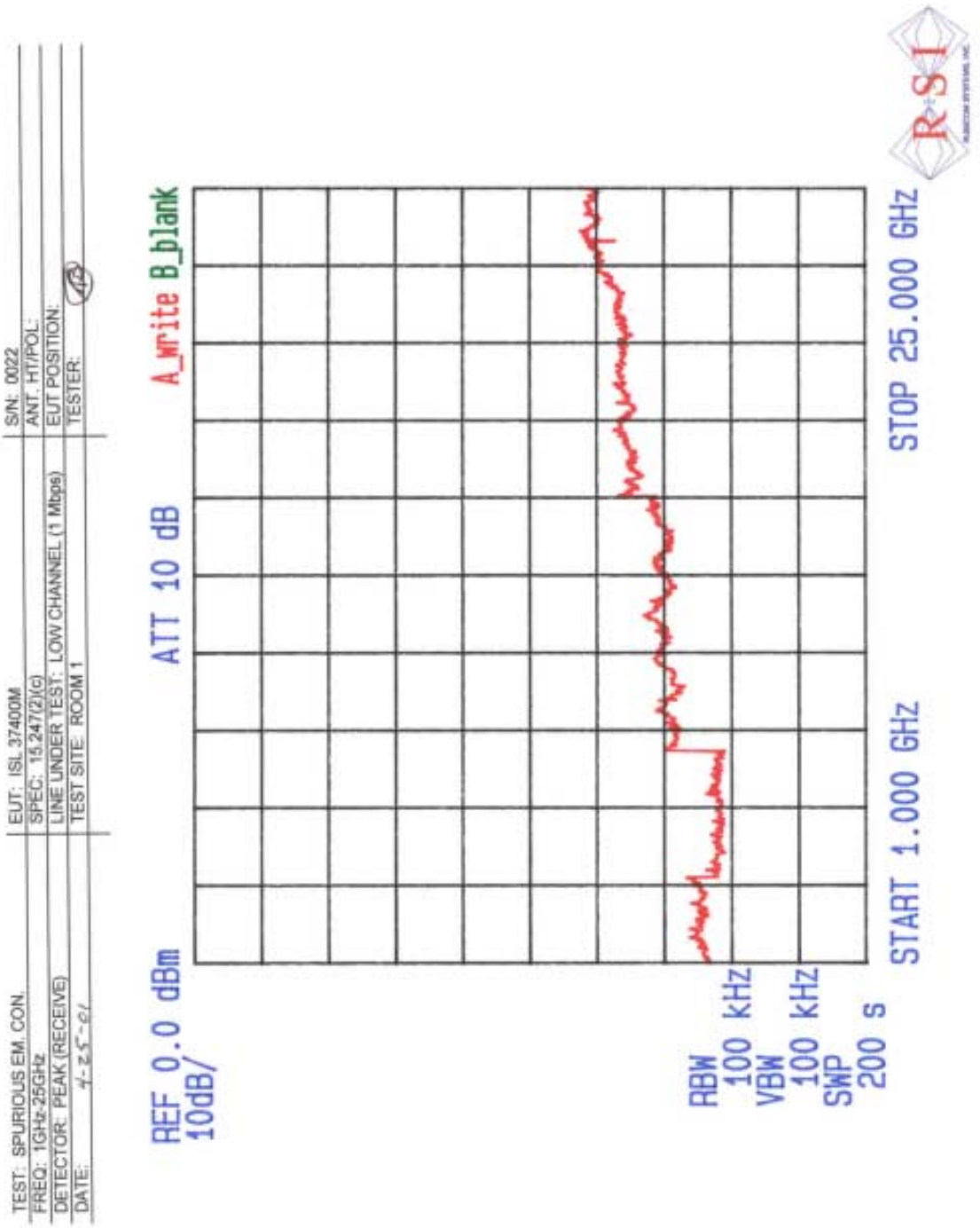
DATA SHEET 6.4.3-4



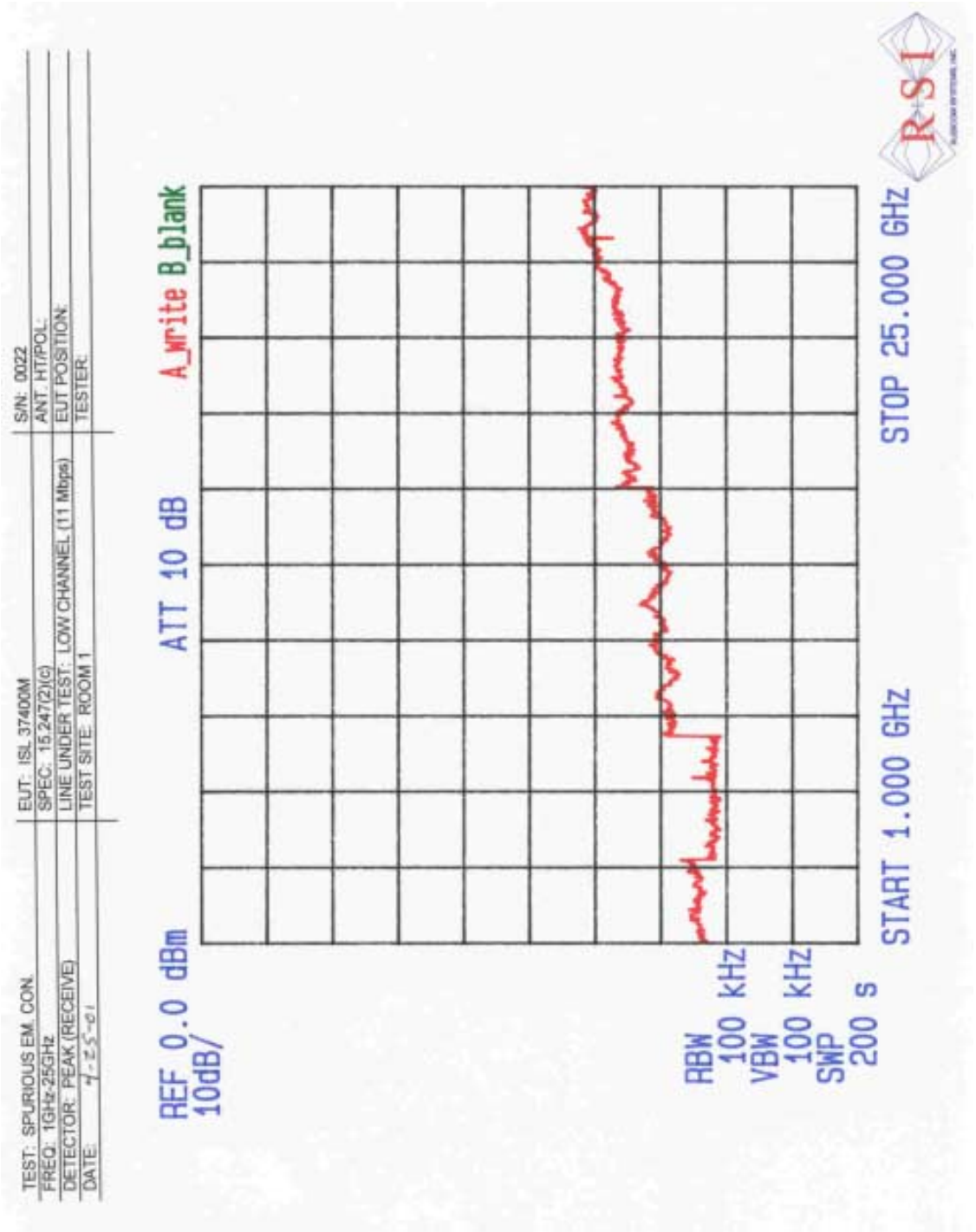
DATA SHEET 6.4.3-5



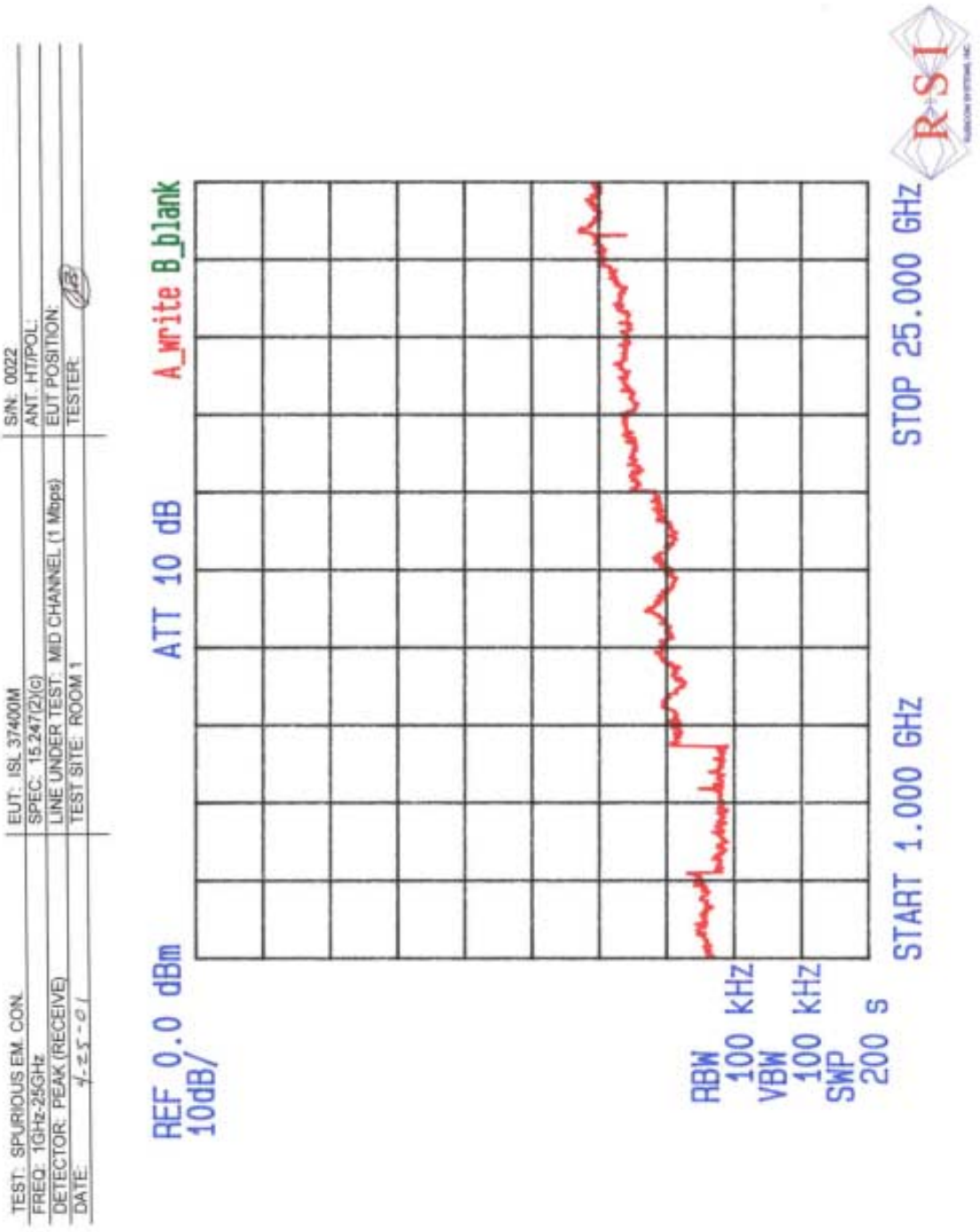
DATA SHEET 6.4.3-6



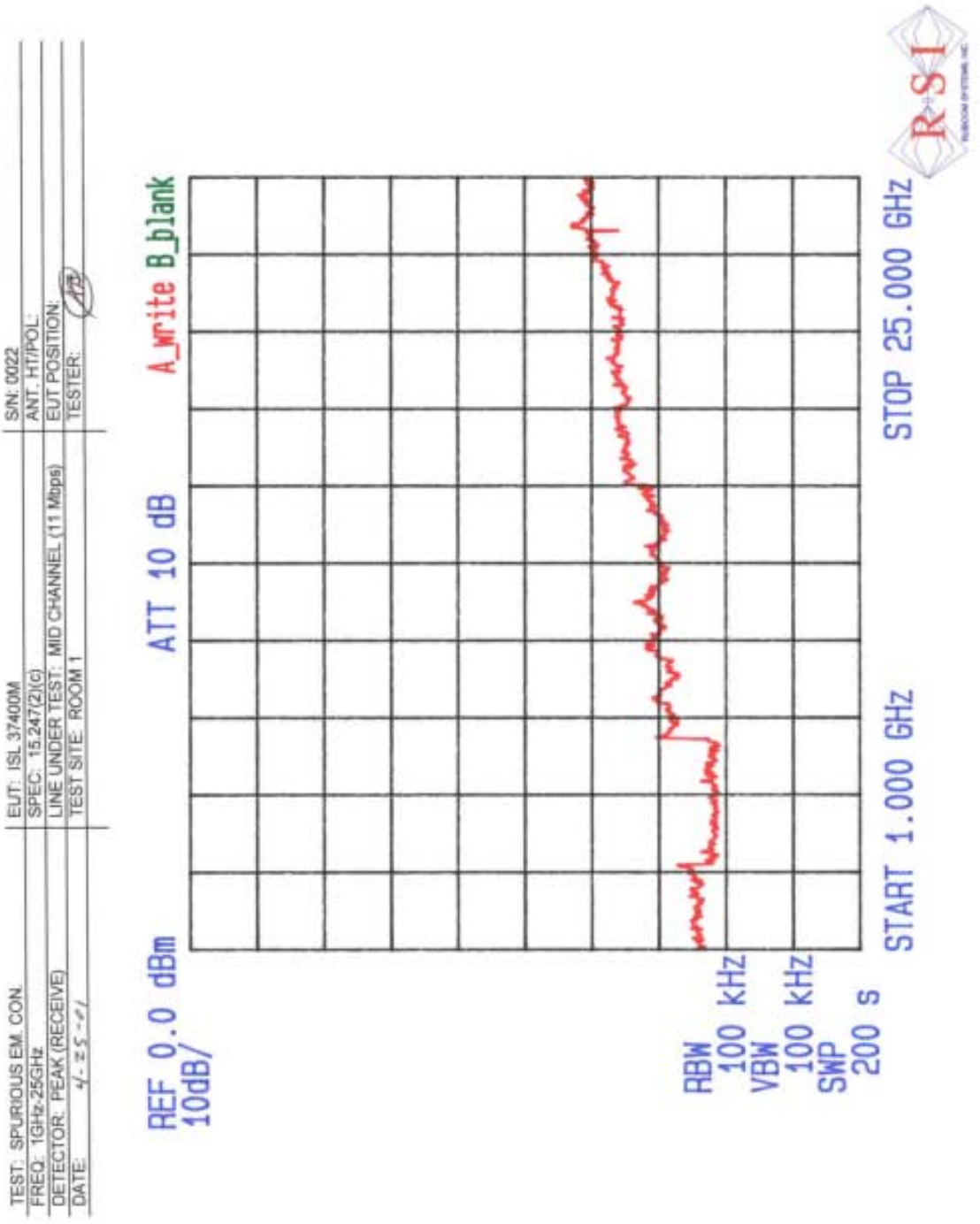
DATA SHEET 6.4.3-7



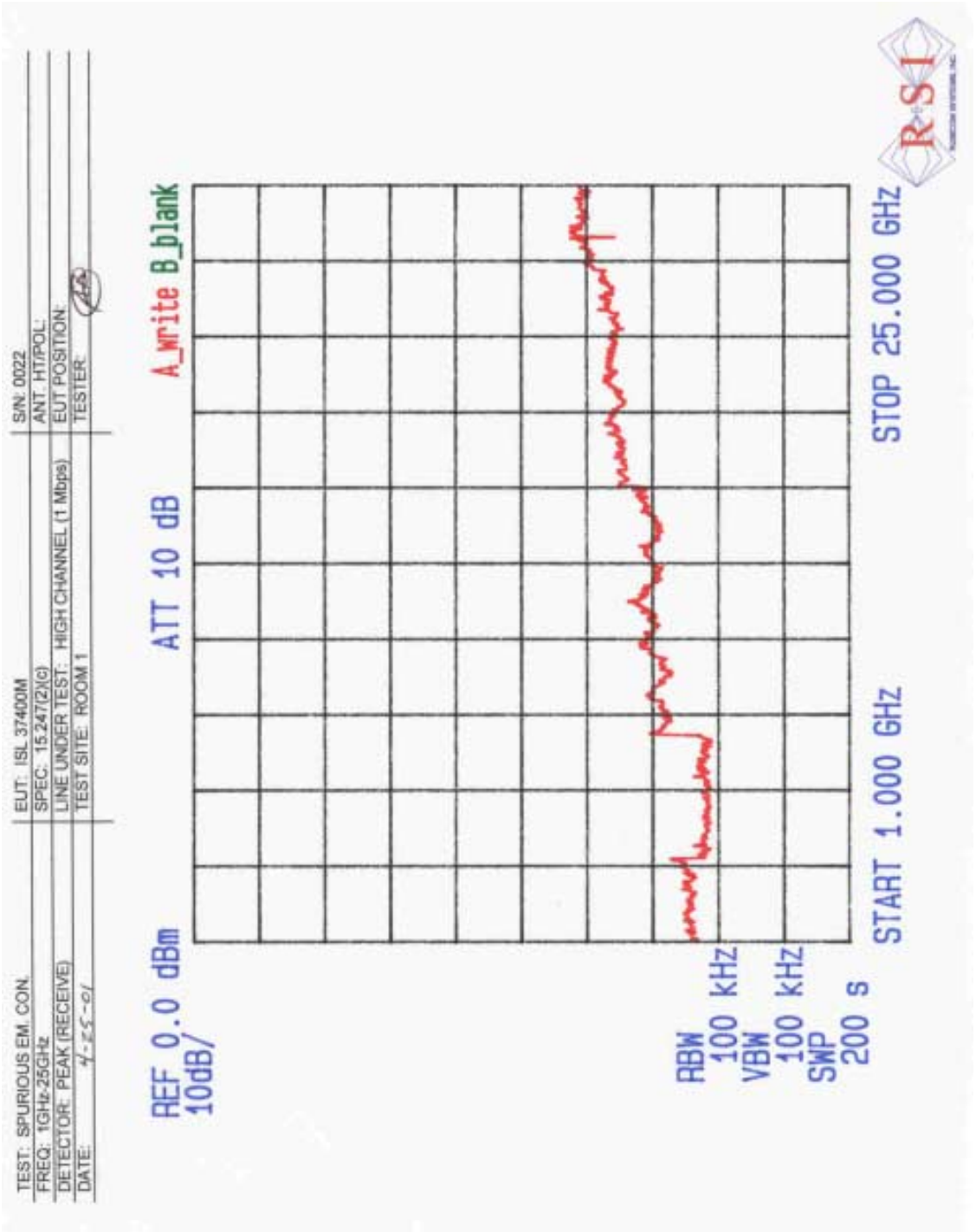
DATA SHEET 6.4.3-8



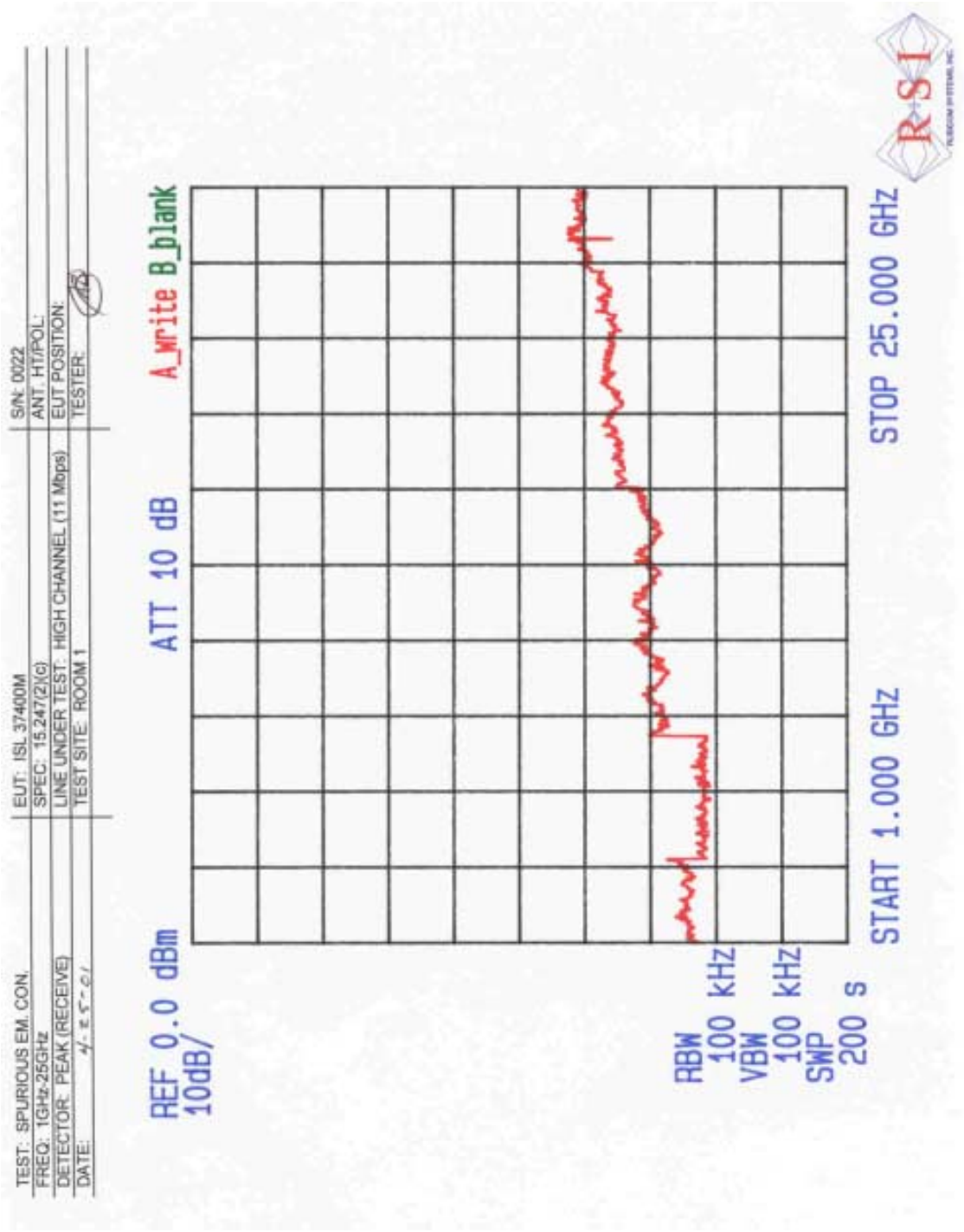
DATA SHEET 6.4.3-9



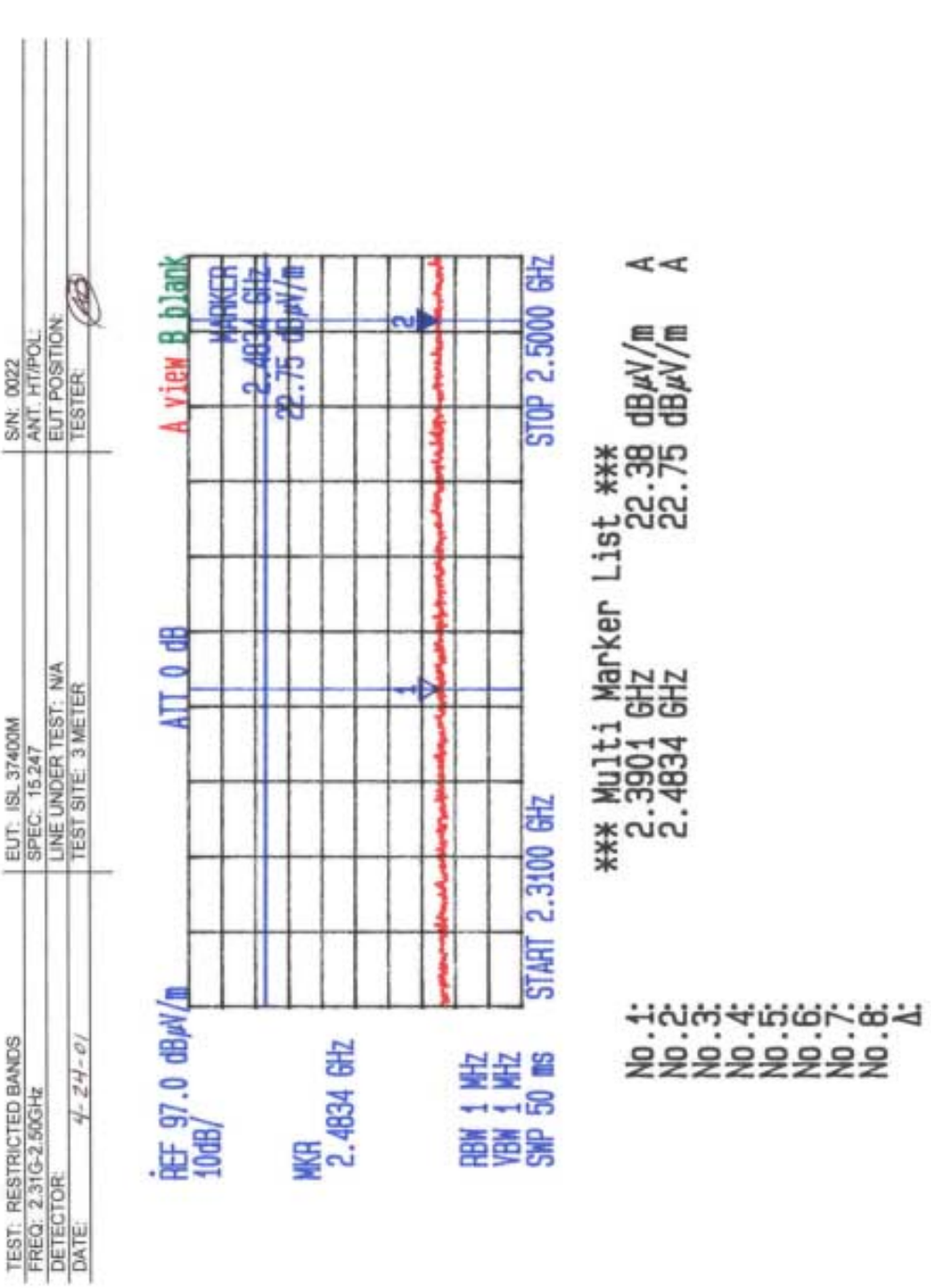
DATA SHEET 6.4.3-10



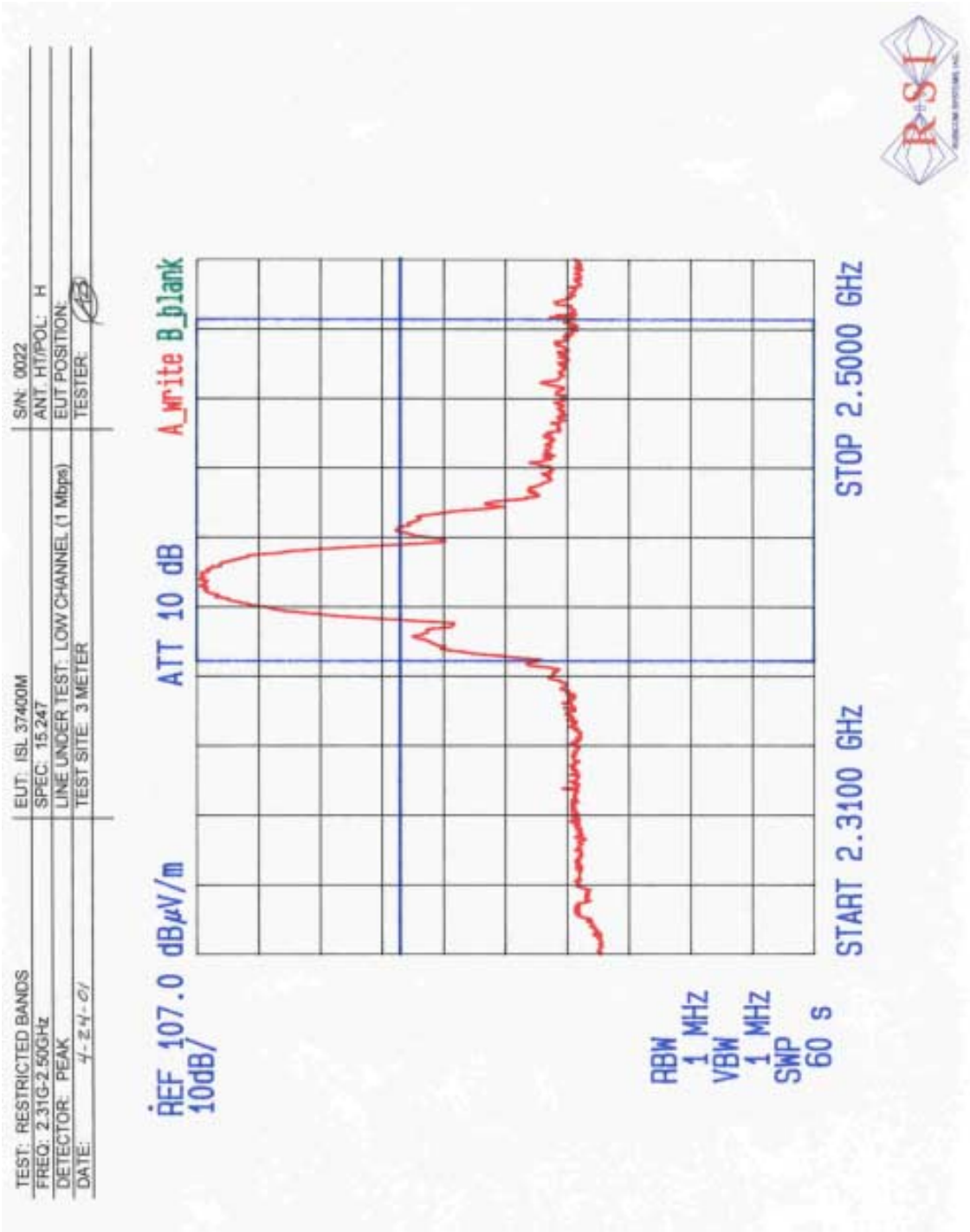
DATA SHEET 6.4.3-11



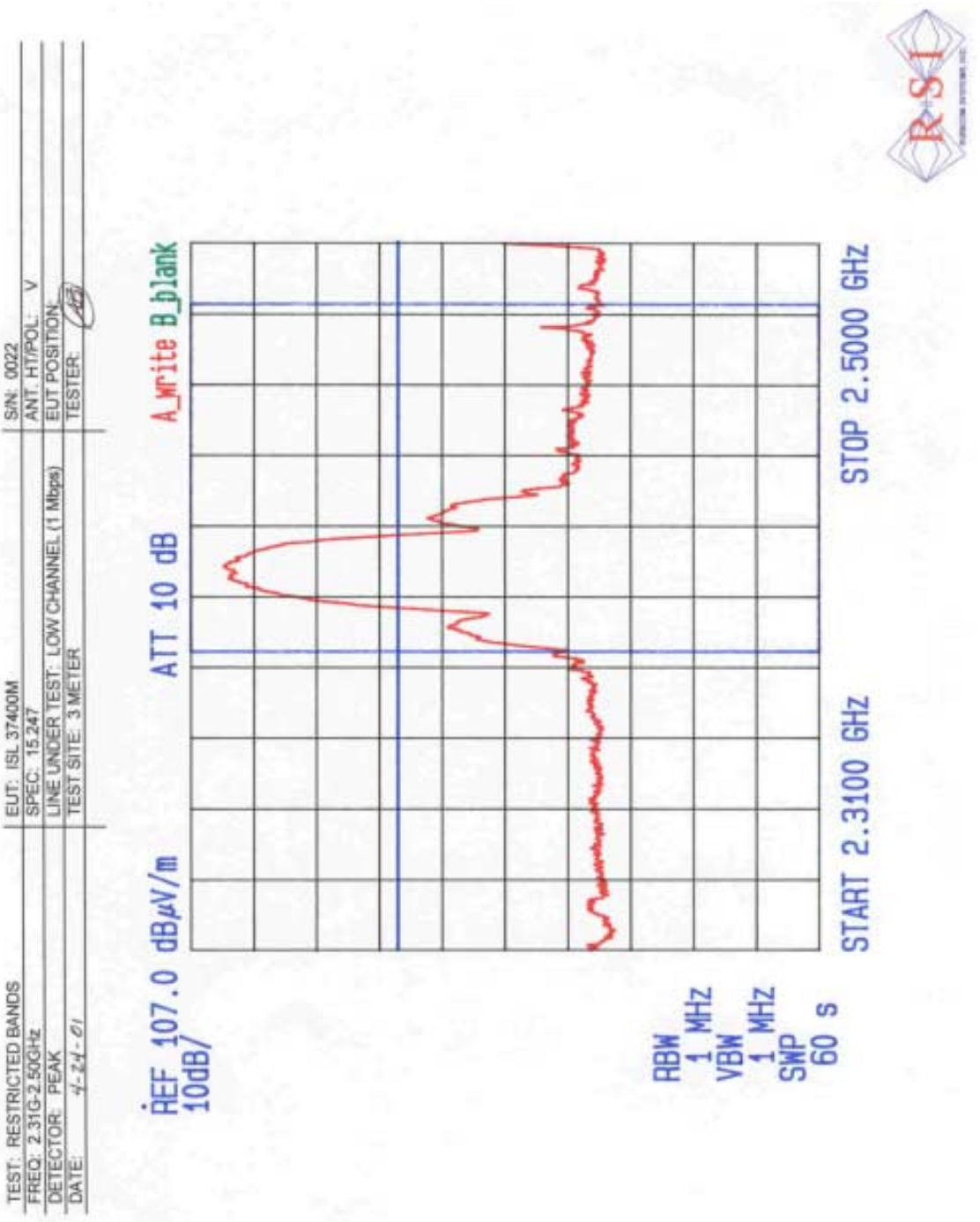
DATA SHEET 6.4.3-12



DATA SHEET 6.4.3-13



DATA SHEET 6.4.3-14



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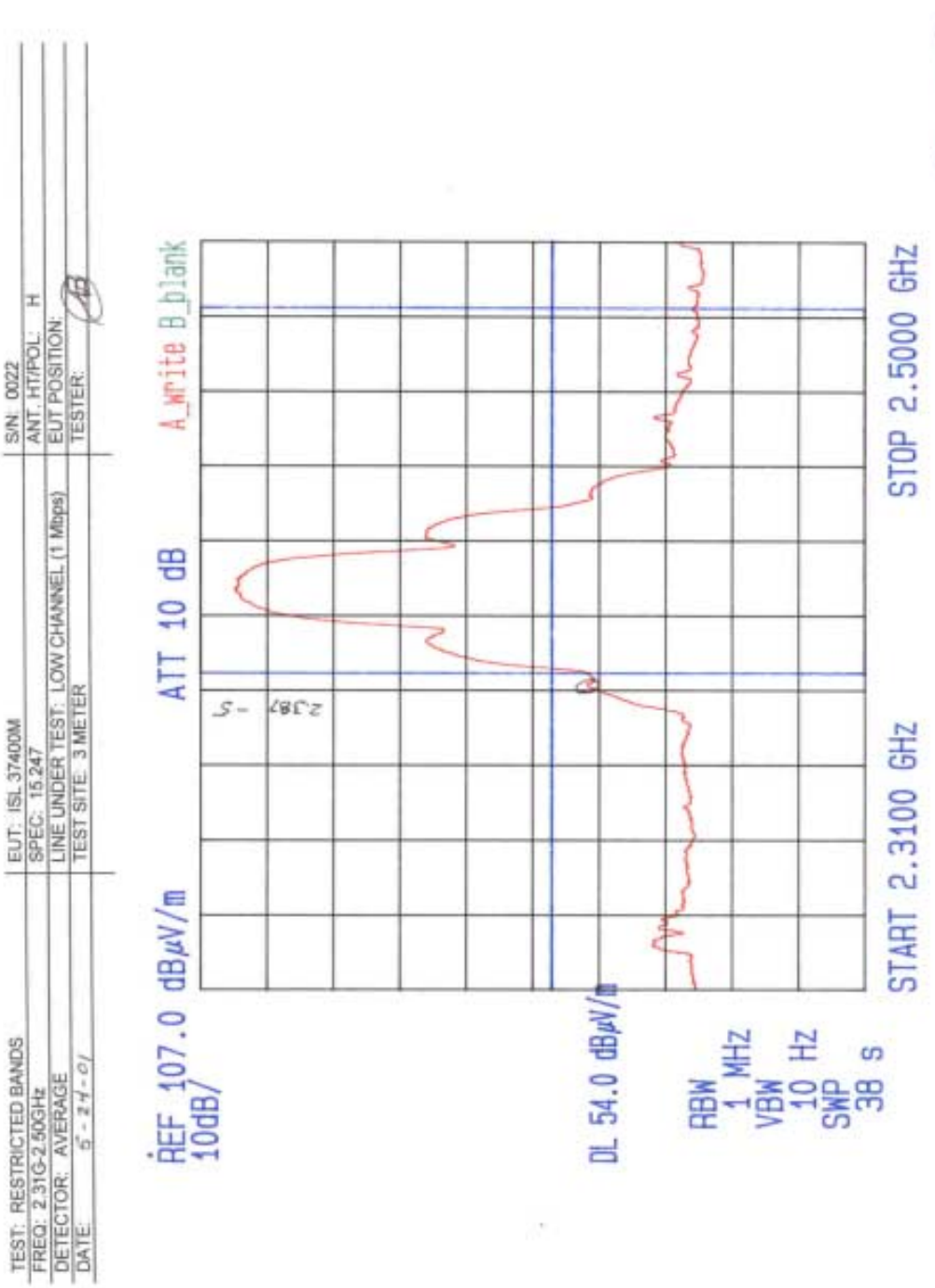

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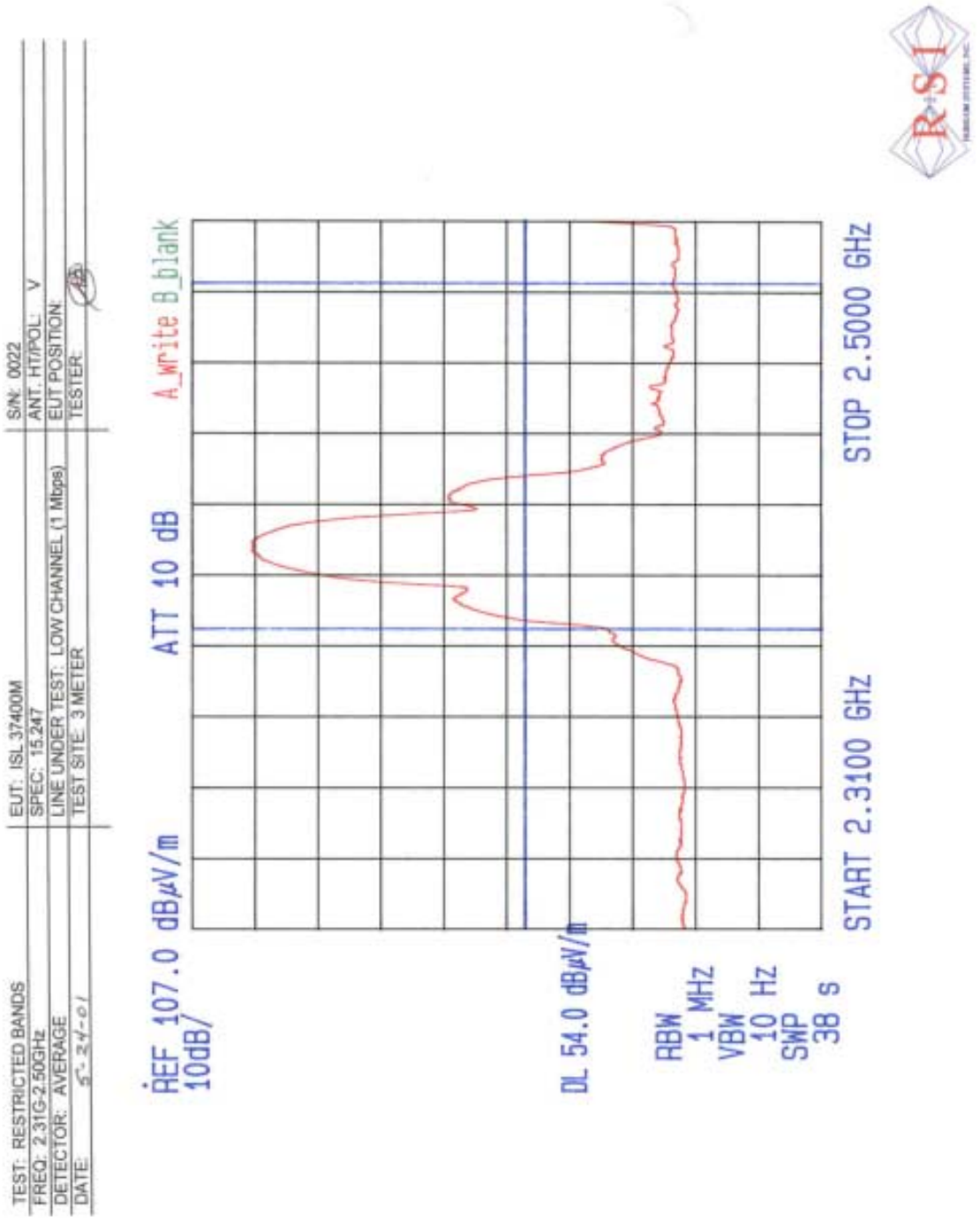

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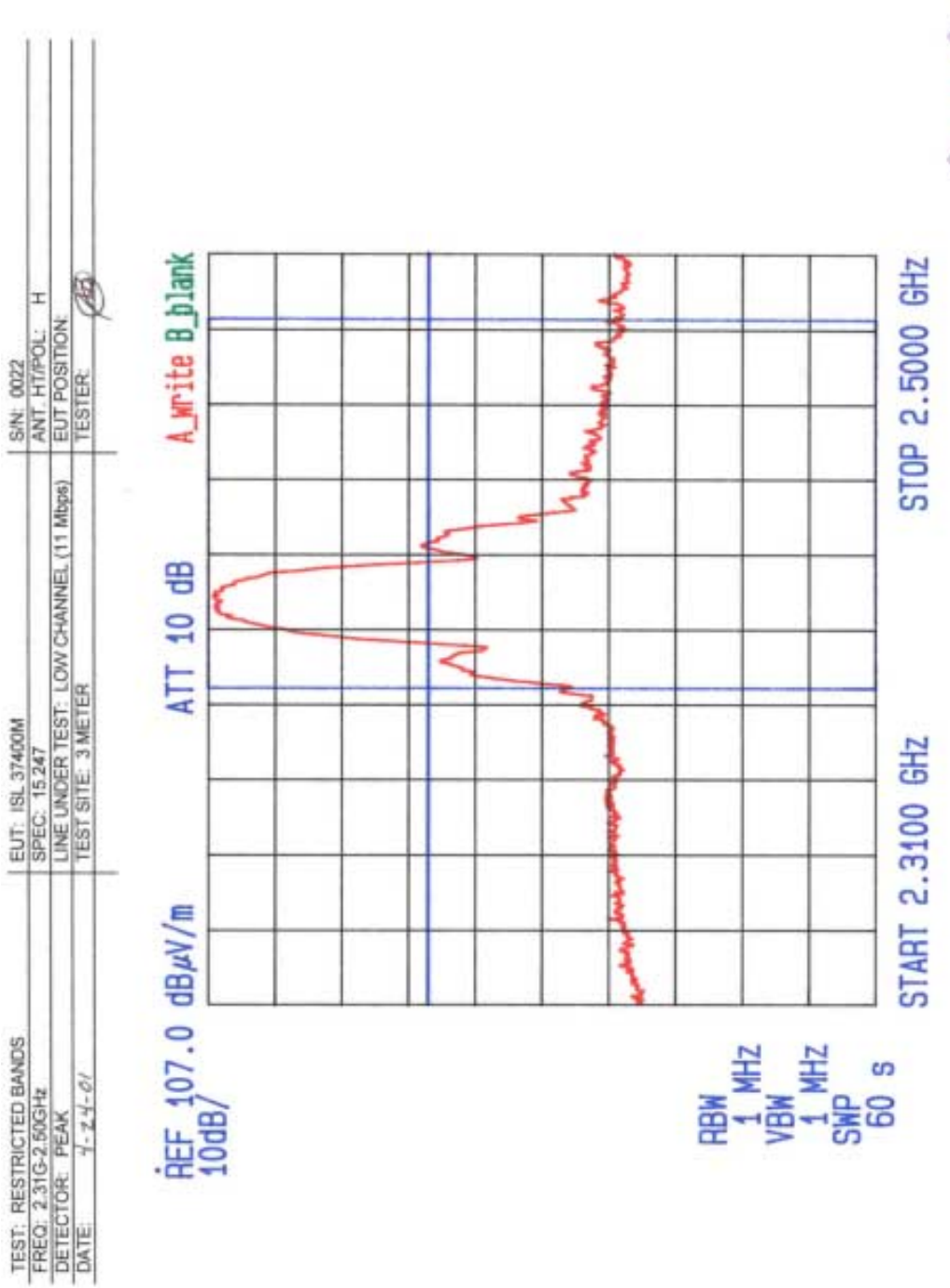

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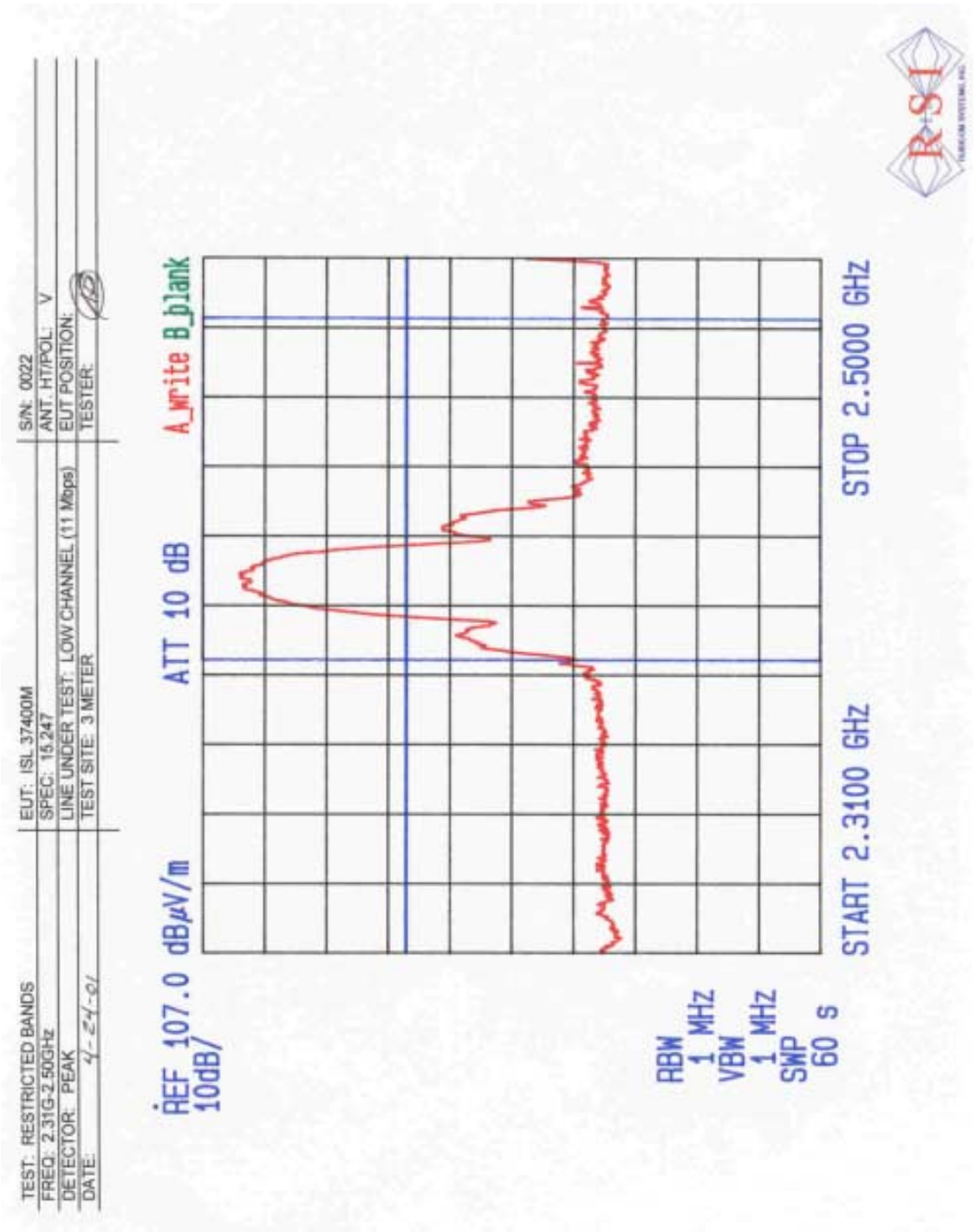
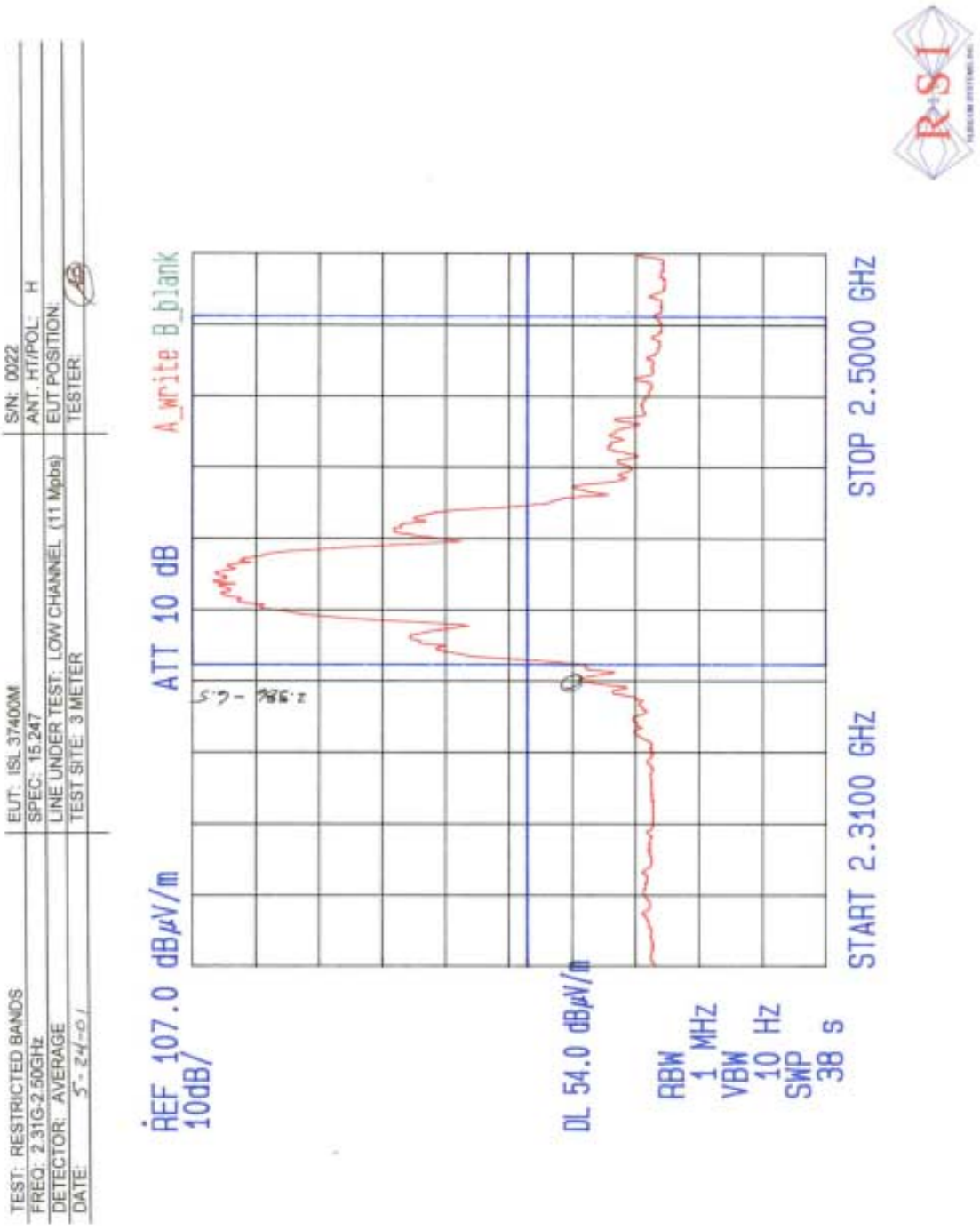
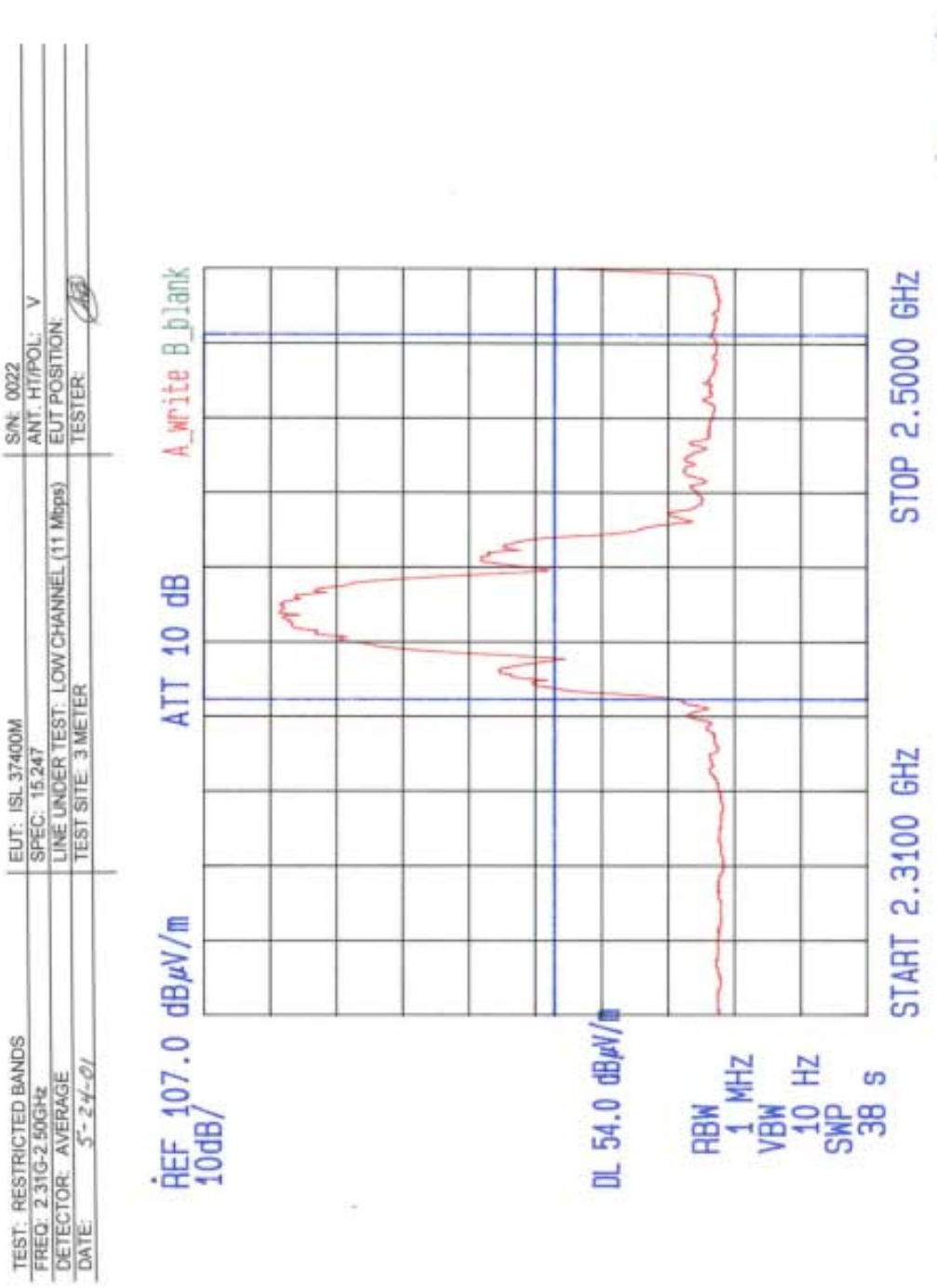


DATA SHEET 6.4.3-19



DATA SHEET 6.4.3-20



DATA SHEET 6.4.3-21