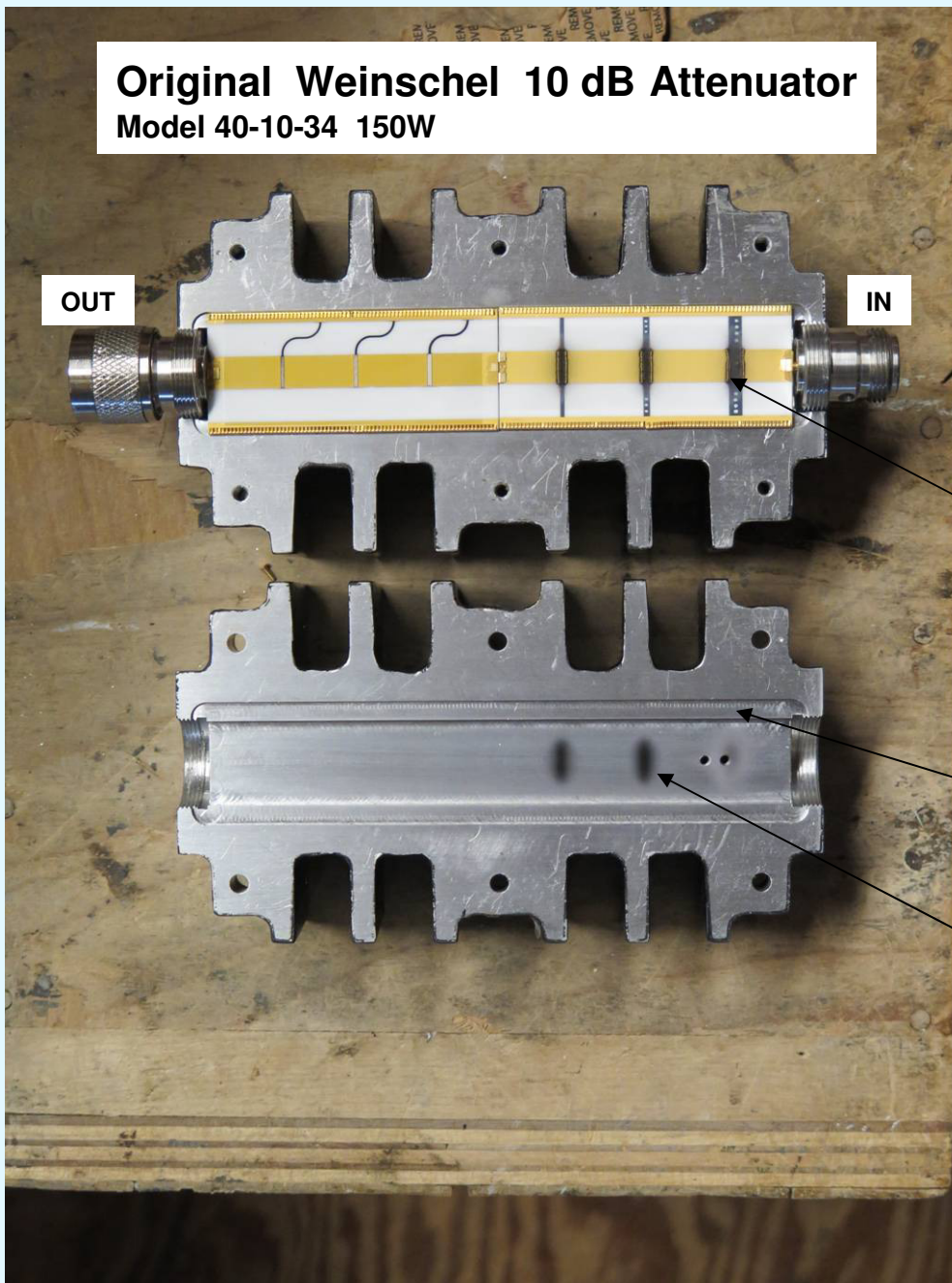


# **Repair and Modifications of a Weinschel 150 W Attenuator**

Jacques Audet VE2AZX  
Feb. 2025

**Original Weinschel 10 dB Attenuator**  
Model 40-10-34 150W

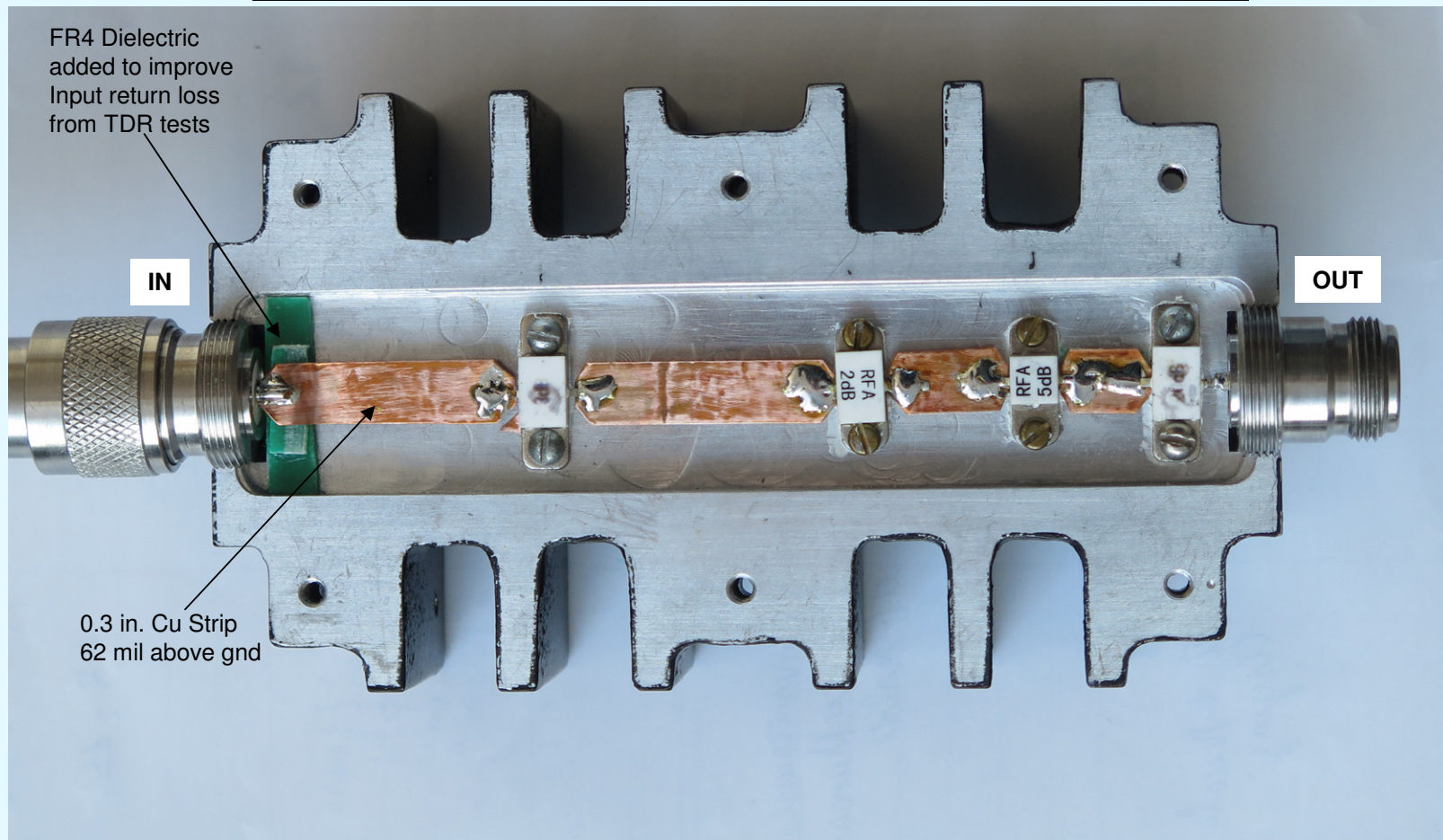
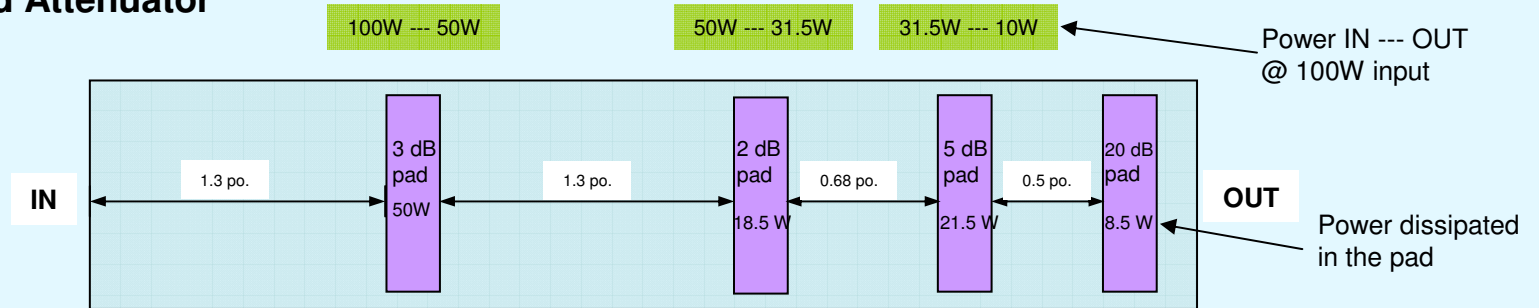


Damaged Attenuator Pads

This step had to be machined to be equal with the center surface.

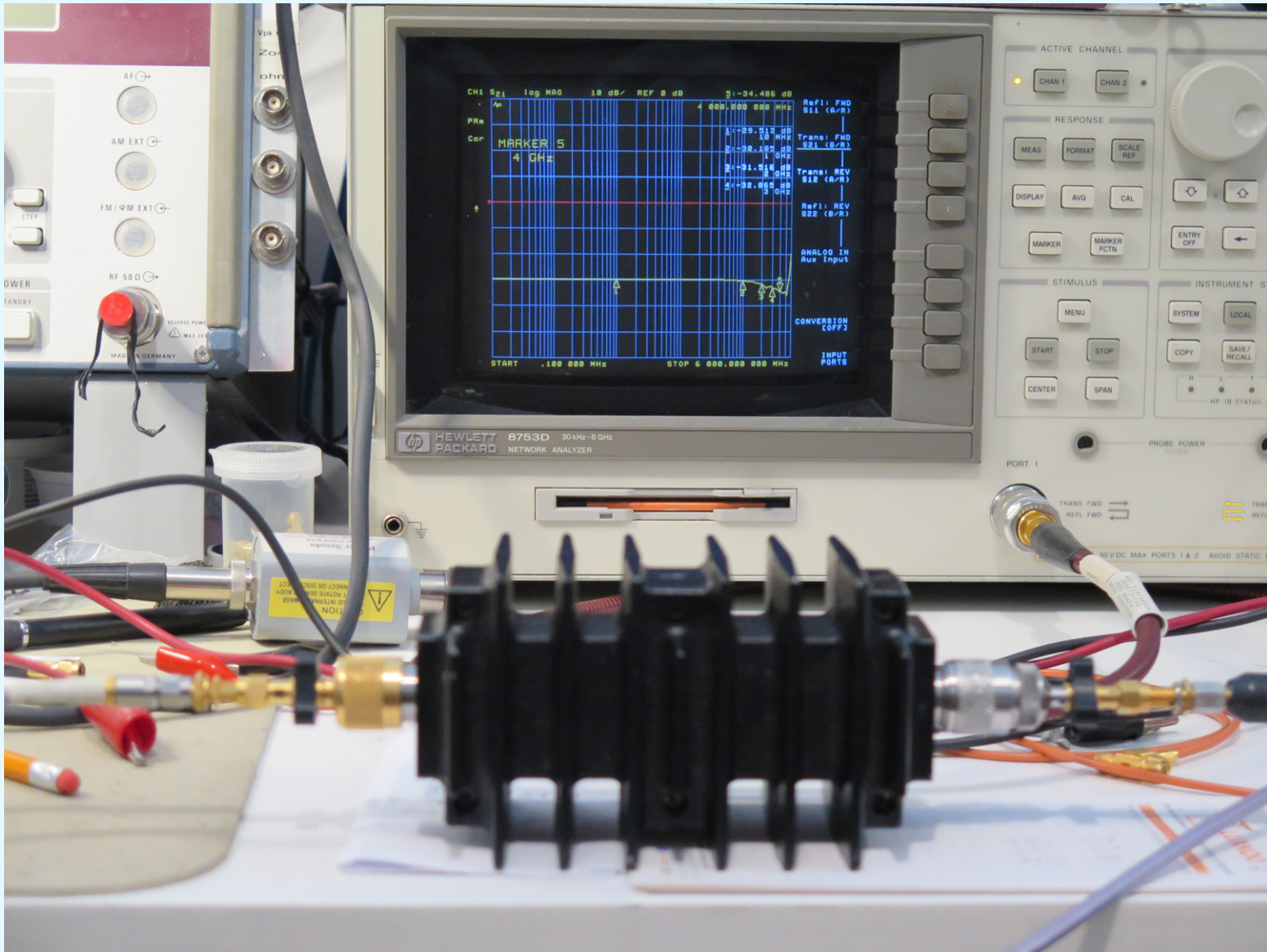
Carbon residues

# The Modified Attenuator Now 30 dB

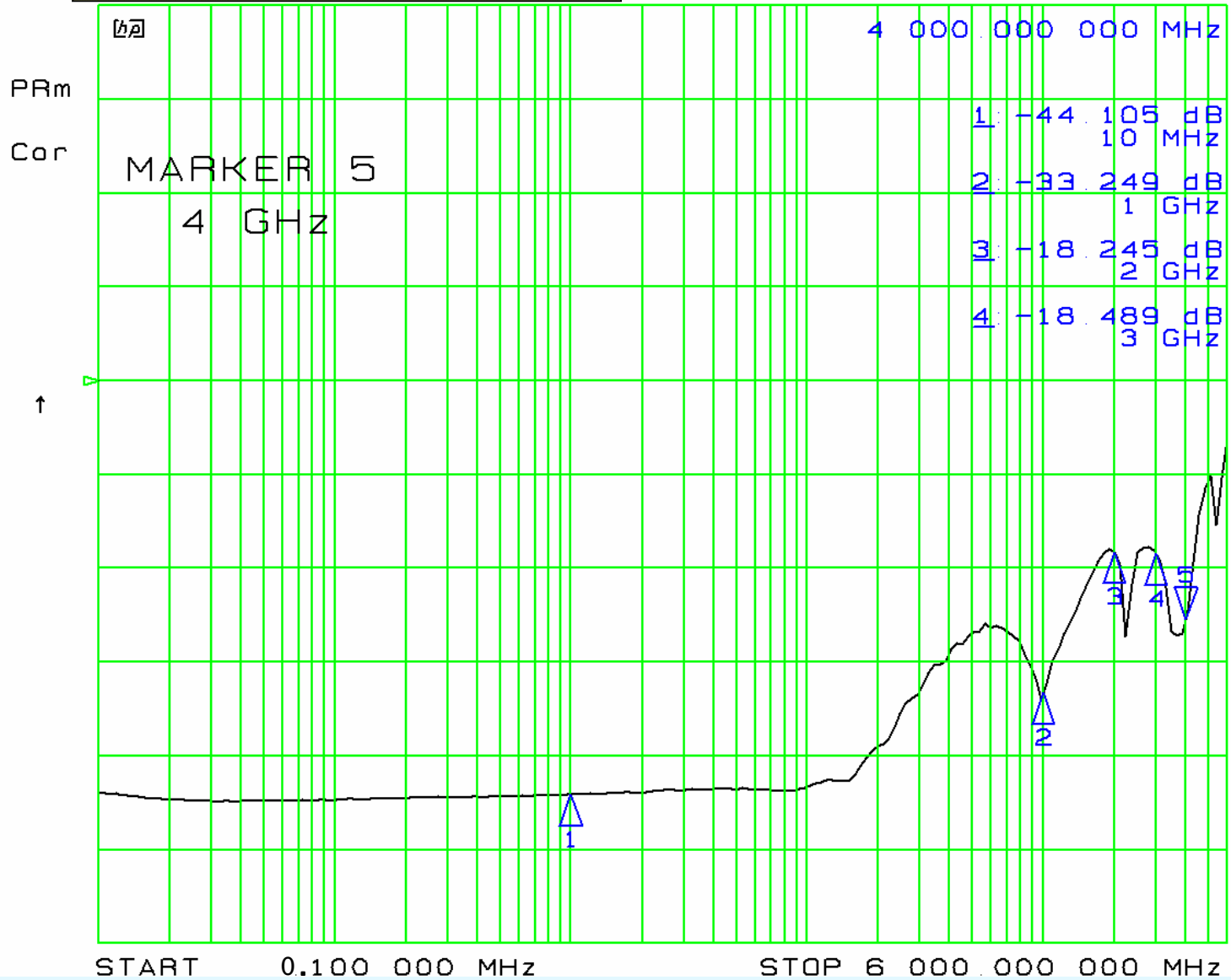




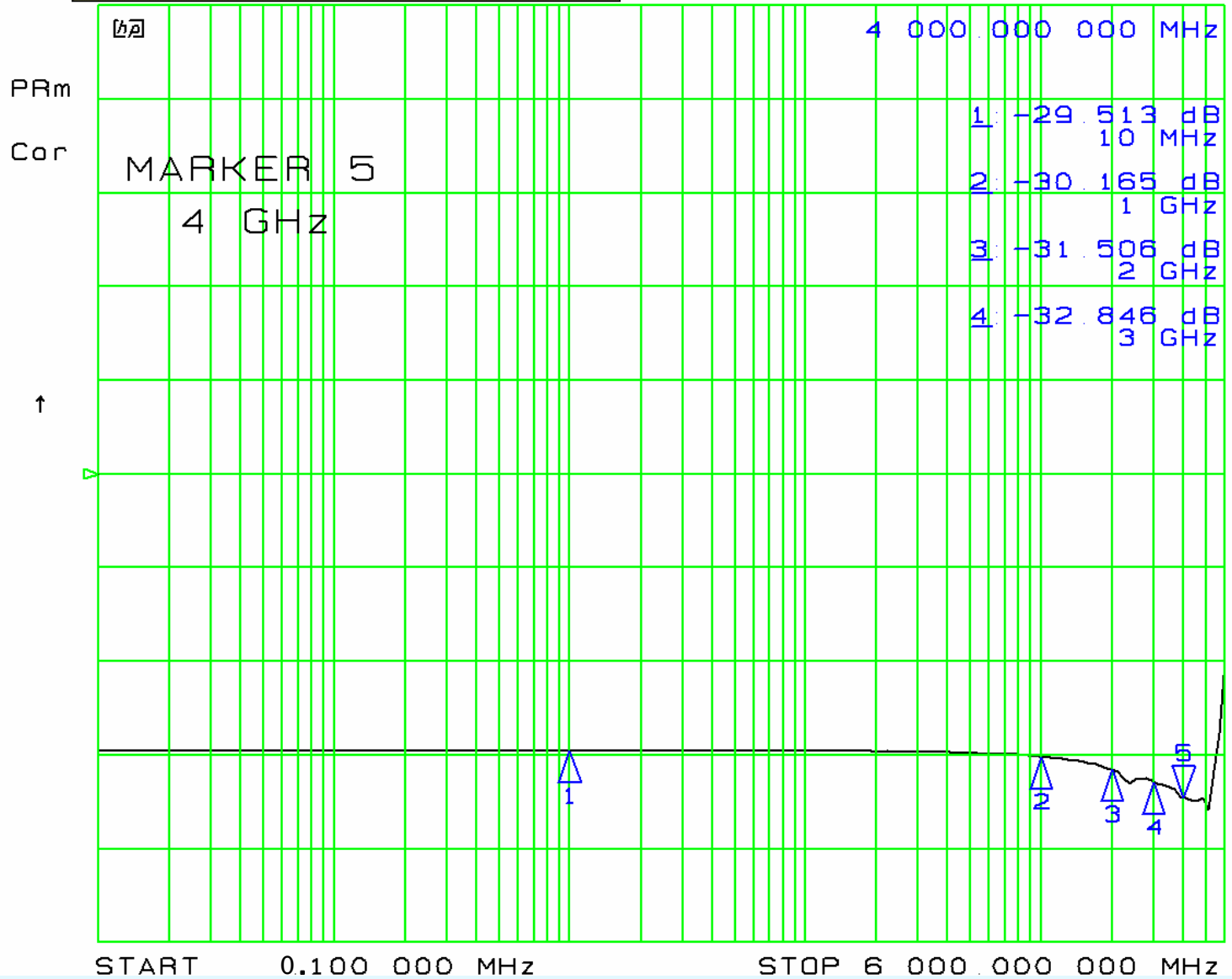
## Ready for S Parameter Testing



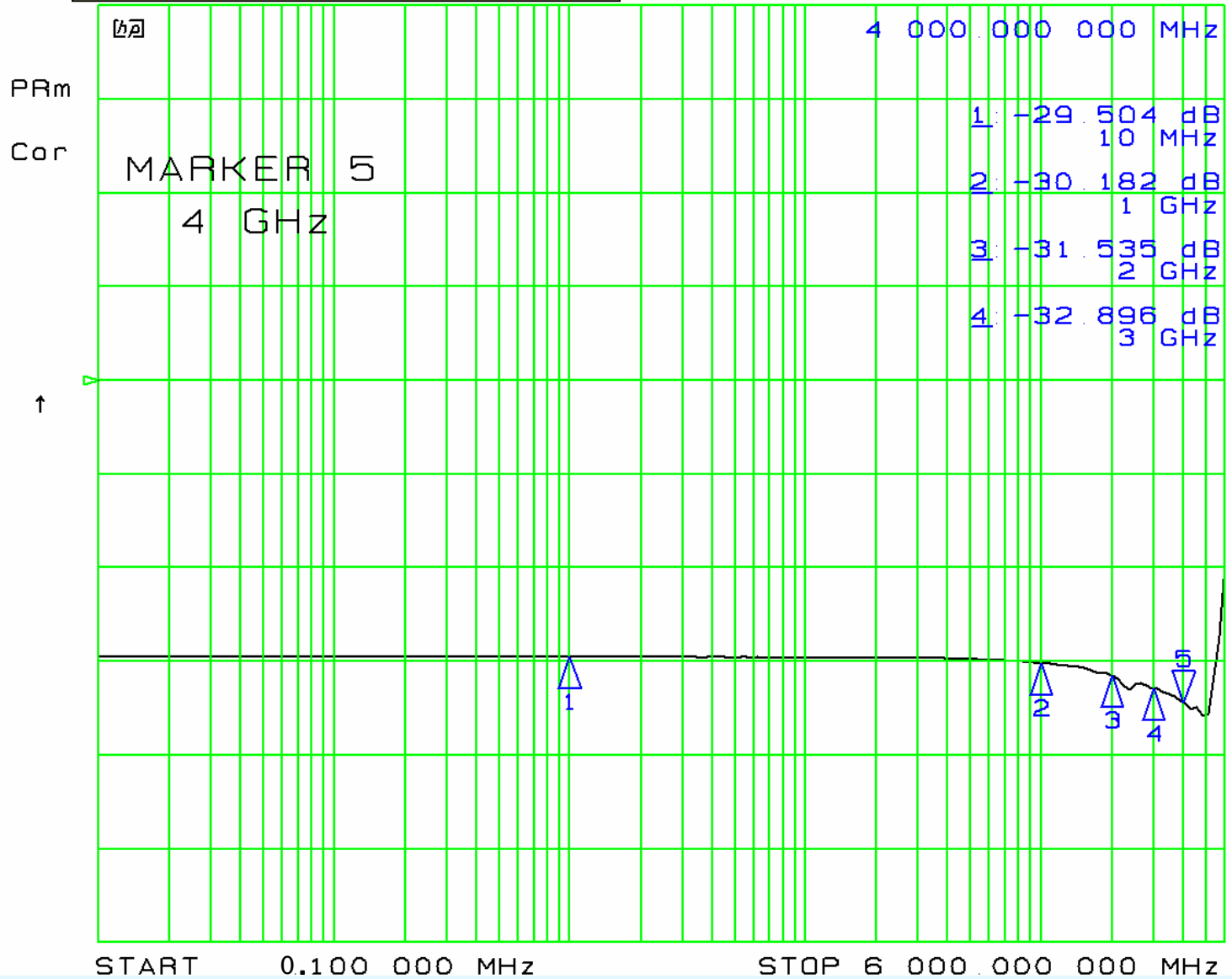
CH1 S<sub>11</sub> log MAG 10 dB/ REF 0 dB 5: -25.399 dB



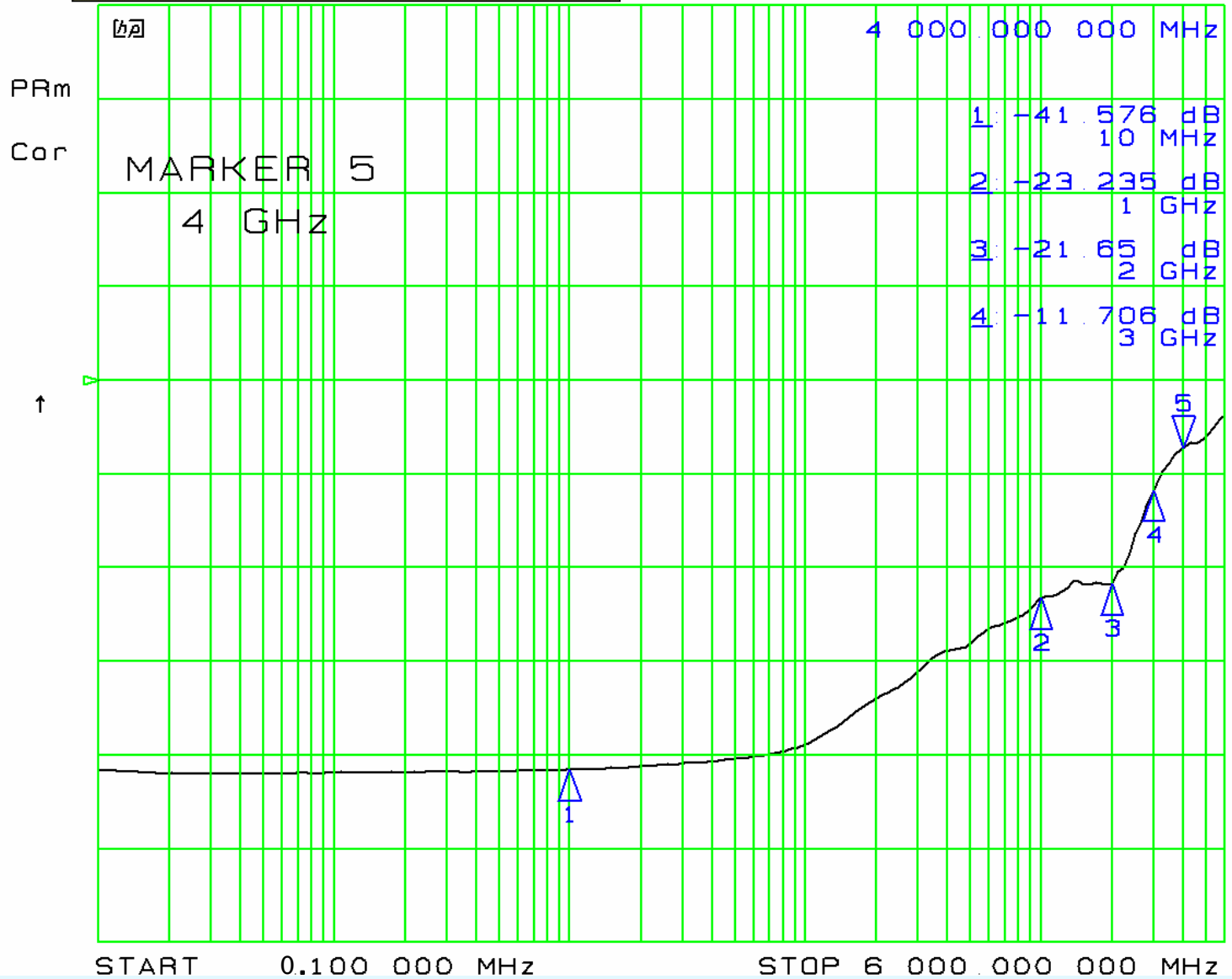
CH1 S<sub>21</sub> log MAG 10 dB/ REF 0 dB 5: -34.49 dB



CH1 S<sub>12</sub> log MAG 10 dB/ REF 0 dB 5: -34.396 dB



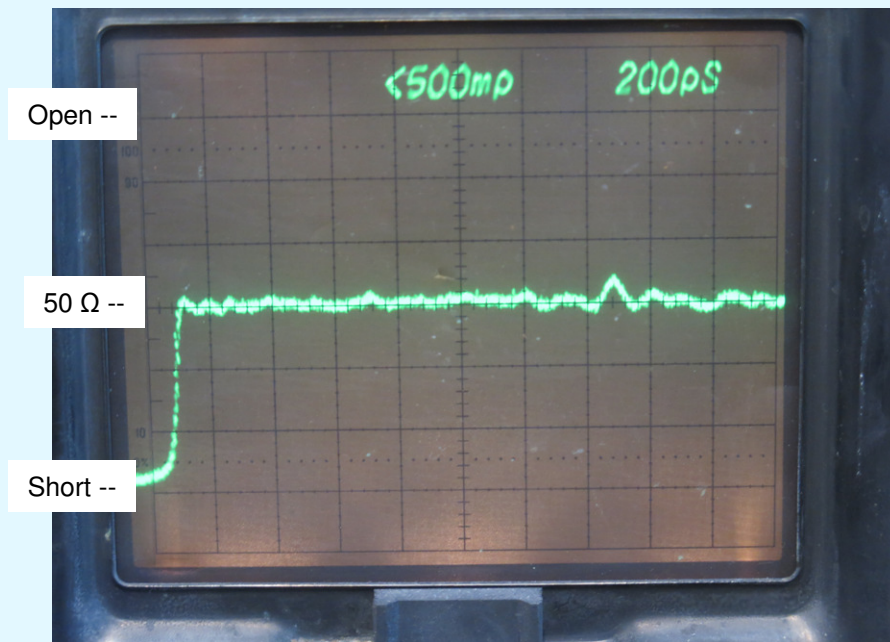
CH1 S<sub>22</sub> log MAG 10 dB/ REF 0 dB 5: -7.1905 dB



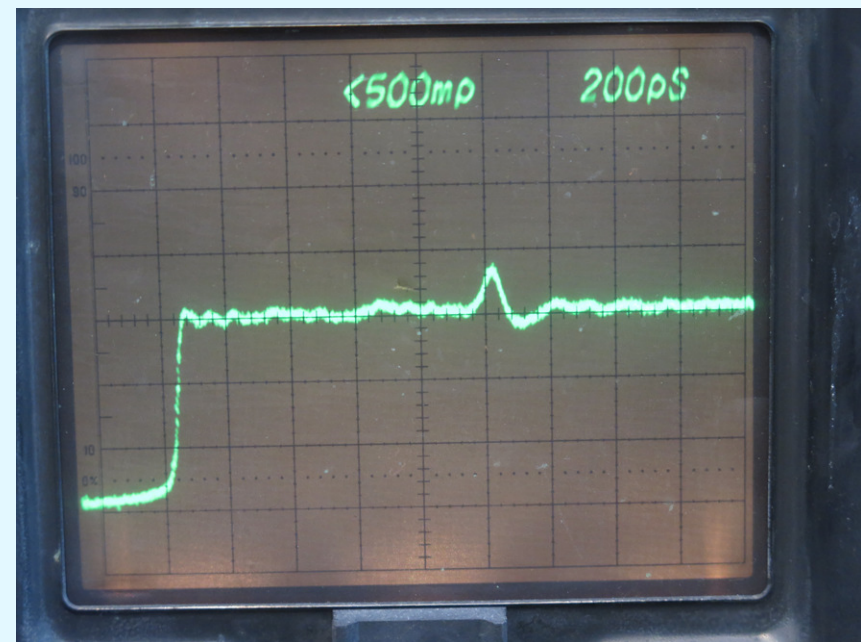


## TDR TESTS FOR REFLECTIONS

Allows locating Impedance deviations from  $50\Omega$



**Attenuator Input**



**Attenuator Output**  
No attempt to correct the peak.  
The S22 curve also shows worse R.L.