

RF-S (Variable RF Sampler – 200 Watts)

The model **RF-S** is a higher output special sampler for low power feedback requirements. Designed utilizing a Hammond Manufacturing Die Cast aluminum chassis for superior EMI/RFI shielding, it provides a proven plug-and-play solution for directly sampling the RF envelope from handheld, mobile, or low-power transmitters and amplifiers such as Hermes Lite 2 and low power P.A's. It delivers a clean, un-rectified, variable non-directional sample at the BNC output, ideal for spectrum analysis, oscilloscope RF envelope monitoring (SSB, AM, FM, CW), frequency counting and control, or generating digital pre-distortion feedback signals for compatible SDR systems operating at lower power levels.



The RF-S offers passive-flat VSWR performance across a wide frequency range with an extremely low insertion loss of <0.1 dB. VNA performance sweeps are available in the Product Info Sheet PDF.

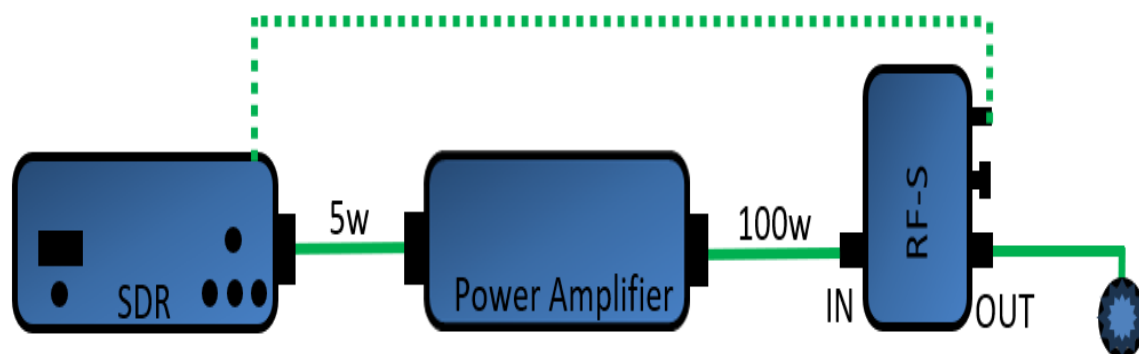
All CleanRF Systems enclosures are built, assembled, and tested in the USA near the grounds of WWV. Each unit features a rugged baked-on black textured finish and Hammond die cast chassis with long-barrel SO-239 connectors for easy installation, and is fully warranted against electrical and mechanical defects. Every RF-S includes a 6 ft. RG-58 BNC cable and UHF male-to-male adapter for true plug-and-play operation.
6 Ft. cable and adapter included!

RF-S Specifications

- Frequency Response: HF: 1.5 ~ 30 MHz
6m: 45 ~ 60 MHz
- Rated Input: 0w ~ 200w PEP
- Sampler Output: HF: -48dBm
6m: -45dBm
- Connectors In: SO-239
- Connectors Out: SO-239 and BNC
- Controls: Variable RF Output 12dB
- VSWR: < 1:1.1
- Insertion Loss: < 0.1 dB
- Cable and Adapter: 6 Ft. BNC Male-to-BNC Male and UHF Male-to-Male Adapter
- Applications:
 - Oscilloscope Vertical "Y" In (Post-Amplifier Reference Signal)
 - RF Modulation Envelope Monitor
 - Peak Envelope Power Monitor
 - Spectrum Analysis / Adaptive Pre-Distortion / Pure Signal ®
- Dimensions: Hammond Die Cast W 2.38" x L 4.40" x H 1.65"

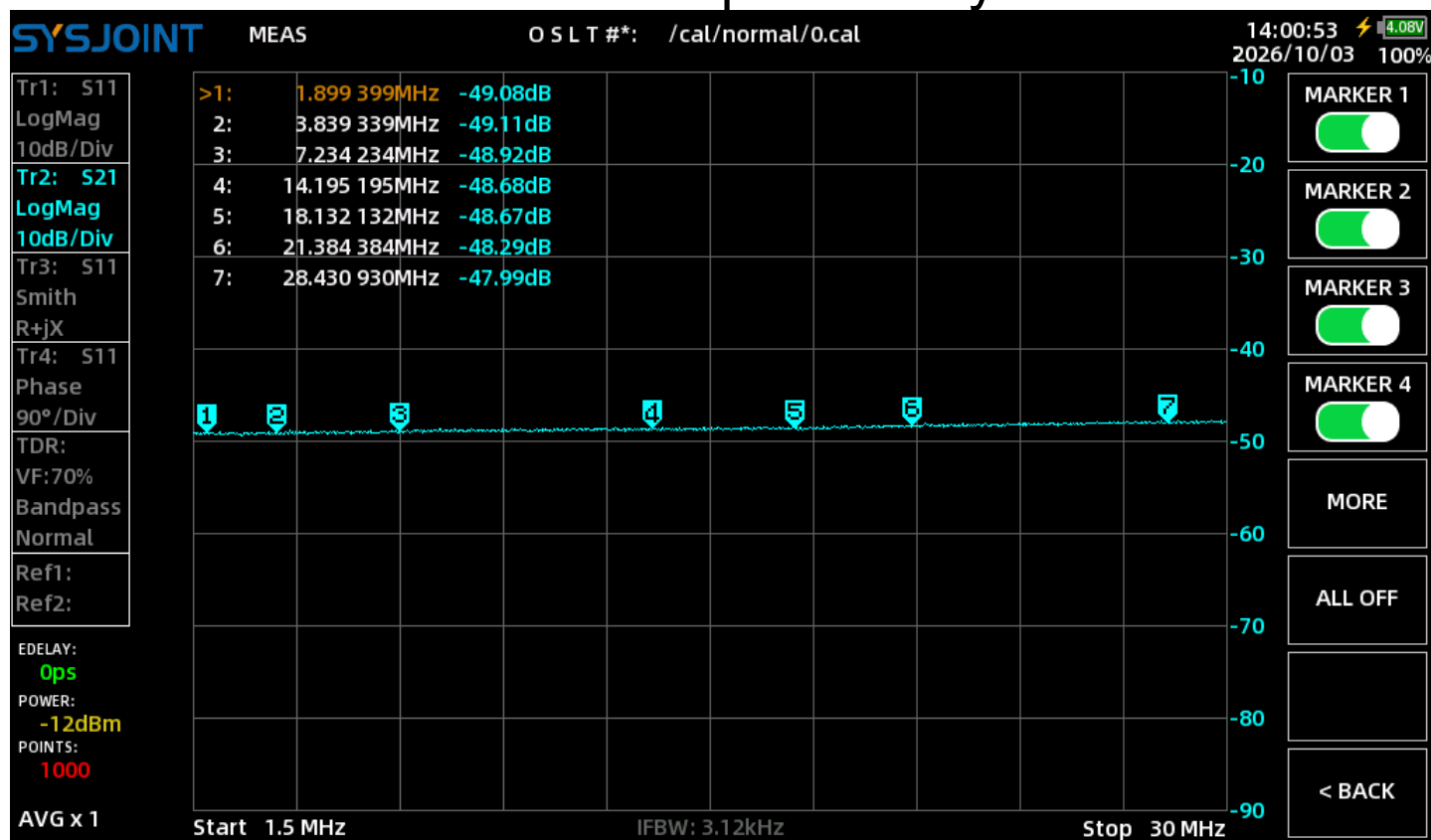


Conceptual illustration shown for adaptive pre-distortion feedback to
Pin header; 6 center / 3&4 shield of RF3 SMA input of Hermes Lite 2

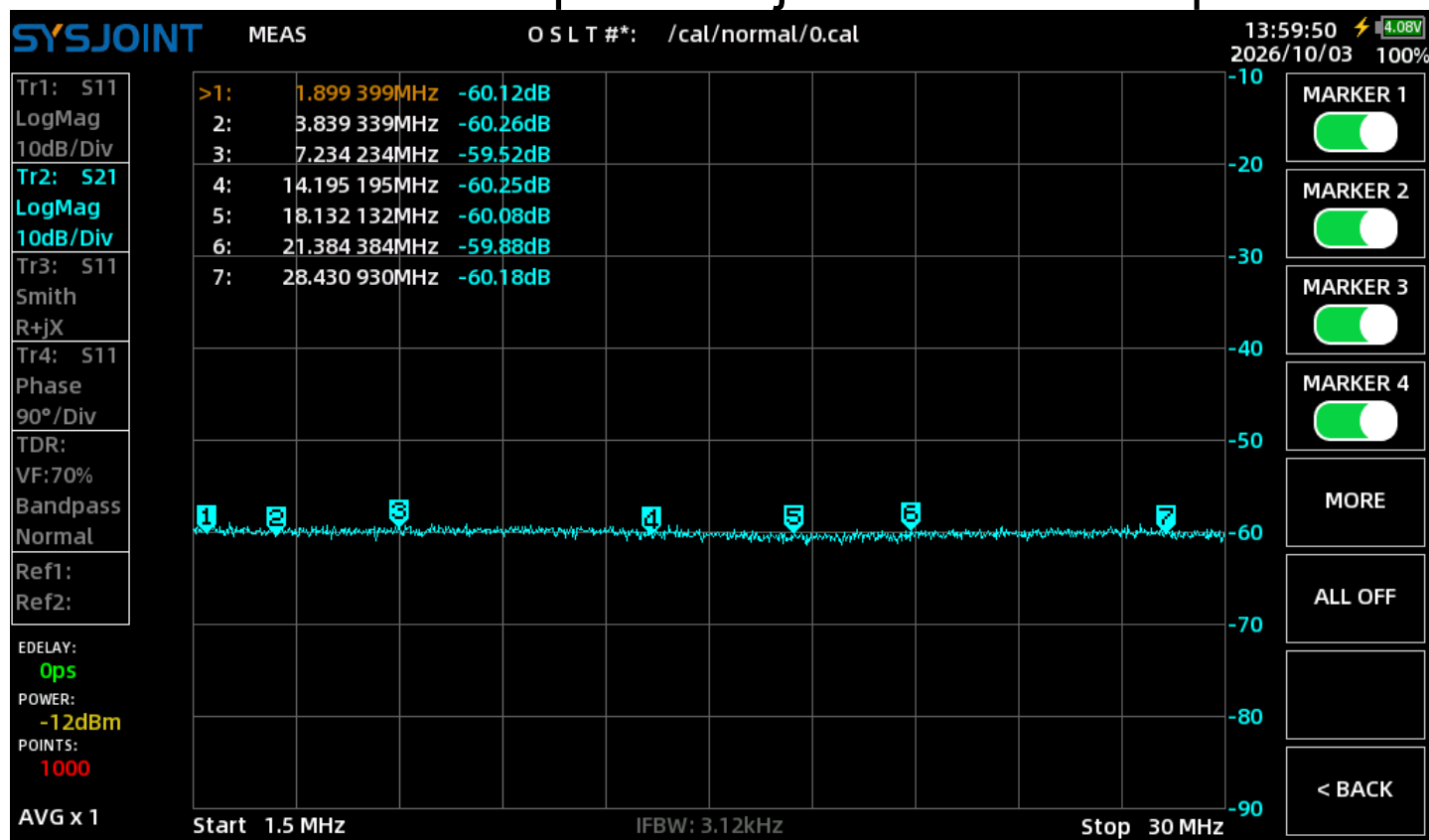


50 Ohm / Tuner / Antenna Out

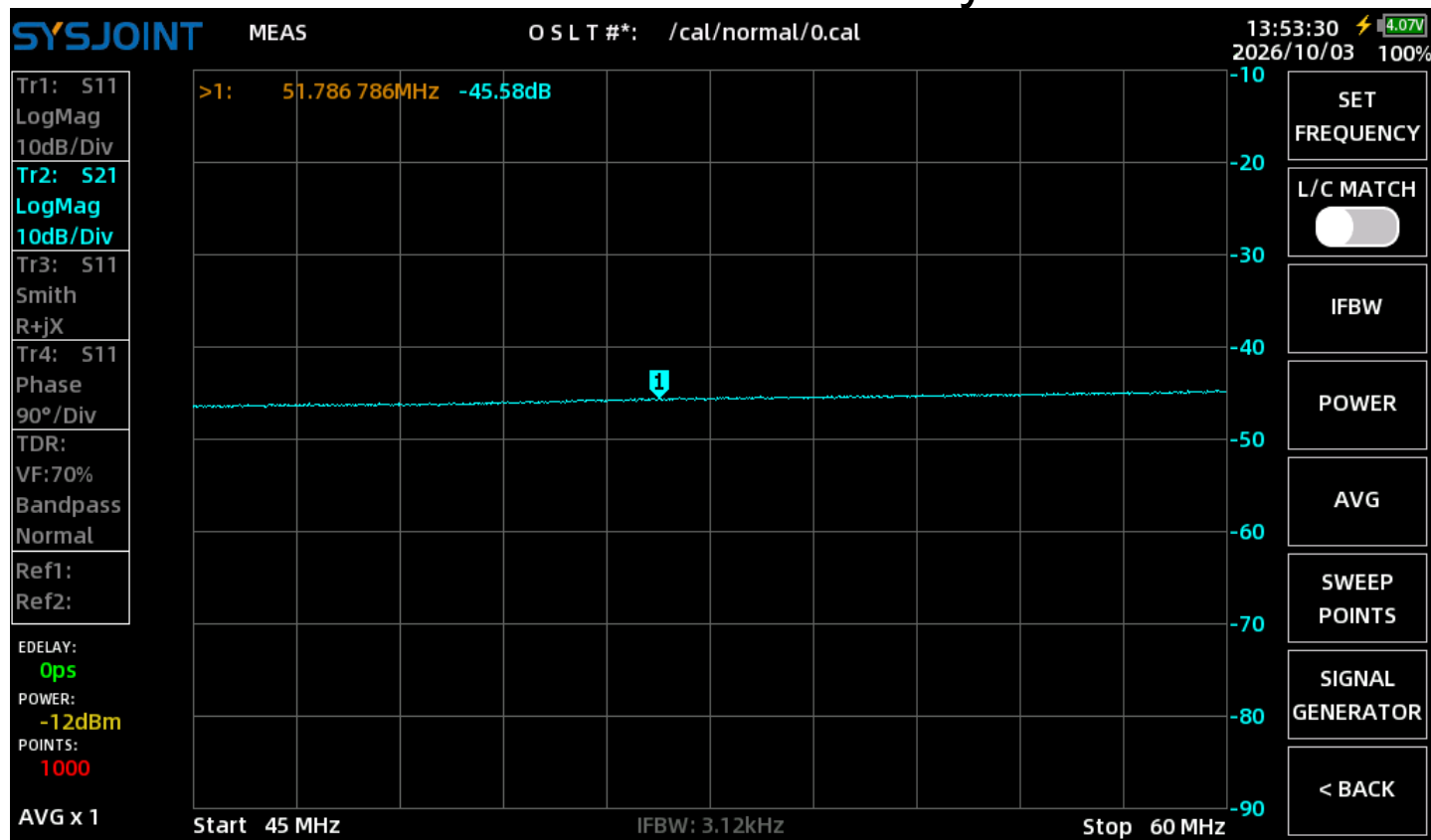
HF VNA Sweep Pot Fully CW



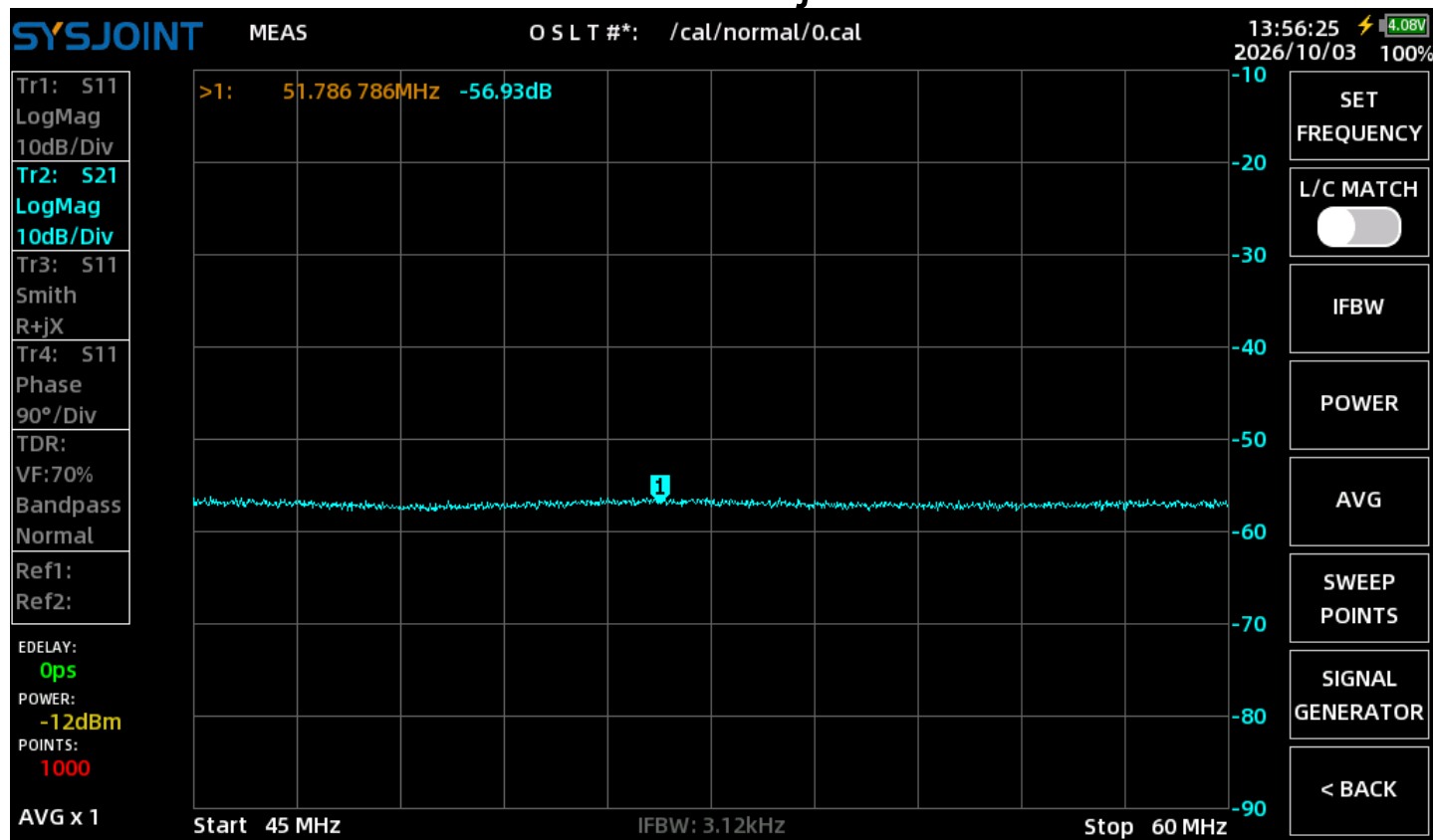
HF VNA Sweep Pot Adjust For Min Output



6m Band VNA Pot Fully CW



6m Band VNA Pot Adjusted For Min Out



VSWR Sweeps

