



# Wireless RF Test Enclosures

## JRE TVK Test Verification Set

### Complete set to verify isolation of RF Shielded enclosures

- Verify proper isolation of any test enclosure
- High power source allows measuring isolation of over 120 dB
- All settings preconfigured, nothing to adjust or set, tuned to 2.45 GHz
- Sensitivity down to -115 dBm easily pinpoints the tiniest leakage
- Li-Ion battery powered
- Small directional Yagi antenna to pinpoint any leakage
- Ideal for periodic tests and verification, especially useful after shipping or reconfigurations
- Rivals performance of multi \$10K equipment at low cost of \$1295

Verify proper shielding isolation of your entire test set up using this handy test verification kit. Consisting of a sensitive hand held spectrum analyzer and a high power test signal source in a rugged equipment case, one can easily measure test enclosure isolation better than -100 dB. Completely adjustment free reduces any chance for misreadings or set up, operation is simple - just turn it on.



The JRE HPSS-1 Test Signal Source is a synthesized high power source at 2.45 GHz - matching the STA-1. This frequency is a good match for antenna size, RF power generation and ease of measurement.

Let's take a look at how we do the actual test. Both the HPSS-1 signal source and STA-1 hand held spectrum analyzer are switched on and you will see its signal pip on the analyzer's screen. Hold the Yagi antenna close to the signal source's antenna and note that the signal pip goes all the way up to the top of the analyzer's screen. The top of the screen is the high level water mark, as you move the antenna away, you will see the signal drop off, just like you would expect (just like driving further away from the local radio station or moving farther away from the street light. Power drops off as we move away!)

Now that we have seen the signal pip on the analyzer with the source on, place the source inside the enclosure and slowly close the door. Notice the signal getting weaker and weaker until it is way down on your spectrum analyzer screen. You are able to see down to -115 dBm, and the enclosure without any I/O cables is spec'd at -95 dB isolation, so the pip you will see will be in that general range -90 to 100 dB. So, we can see that the enclosure has the proper degree of isolation and this is with the antenna mere centimeters from the enclosure - factor in the 20 dB minimum path loss of 2.45 GHz at a meter distant and you end up with an isolation figure of 100 to 110 dB.

## FEATURES & BENEFITS

- 115 dB of dynamic range, easily tracks down any leakage
- Matched components play well together
- Simple operation, nothing to misinterpret due to wrong settings
- Directional Yagi pinpoints areas of concern
- Long lasting rechargeable Li-Ion battery
- Synthesized, no drifting or adjustments



Dimensions: 14" H x 18" W x 7" D 355 x 460 x 180 mm

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