The NPR-S/K is a rack mounted piece of lab equipment that produces a pedestal of noise with a deep notch at several satcon frequency bands.

Systems for L, S, C, Ku, K, & Ka Band in a Single Test Set

Multi-tone, NPR, ACPR . . .

Custom frequencies + Bandwidths Available

Self contained Noise Source + Filters

Manual or Computer Controlled
Non-linear Systems Analysis/ Simulation Services

Prediction of System Performance:
  C/I, NPR, spectral spreading, ACP, bit error rate, eye pattern, etc., for different forms of modulation (BPSK, QPSK, OQPSK, MSK, OFDM, QAM...)

Benefits of Linearization:
  Advantages and trades provided by different forms of linearization
  (predistortion, feed forward, feedback, digital/baseband correction...)

Link Budget Calculation for Satellite & Terrestrial Systems:
  Including noise analysis, adjacent channel/satellite interference and rain availability (Crane model).

Advantage of Coding:
  Including error correcting codes (Reed-Solomon, convolutional and turbo...)

1. Frequency Bands
   L-Band .......................... 1.0 to 2.0 GHz
   S + C-Band ..................... 2.0 to 6.0 GHz
   Ku-Band ........................ 10.5 to 13.5 GHz
   K-Band .......................... 18.0 to 22.0 GHz
   Ka-Band ........................ 26.0 to 32.0 GHz

*Requires 2 LO inputs

2. Noise Bandwidth .................. 40 MHz (custom BW available)
3. Test-Set Notch Depth ........... ≥ 38 dB
4. Band Pass Flatness .............. 1.25 dB
5. Test-Set Output Power .......... -20 dBm (custom output power available)
6. Power Requirements ............. 110Vac/220Vac
7. Rack Mount (2U) ................. 3.4 “(H) x 19”(W)