SOME OF MY FAVORITE TEST GEAR COMES FROM CHINA

Michael Davis, KB1JEY Phil-Mont General Meeting March 14, 2018

Introduction

- Idea came from N.E.W.S. Friday Workshop,
 Microwaves Without a Wheelbarrow of Dollars
 - Inexpensive VHF-UHF "Antenna Analyzer"
 - RF Explorer Spectrum Analyzer, Signal Generator
- Some of KB1JEY's test gear already from China
- Interest in test gear started with Heathkits
- Acquired HP and Tek gear for test bench
 - Problem is finding the gear in good condition for less than the price of your car
 - Alternative is new Chinese gear not lab-grade but good enough for amateur use

Heathkit "5280" Gear KB1JEY Test Rack





What Gear Do I Need?

- Power meter or at least a detector
- Frequency counter
- Signal generator or signal source
- Attenuator
- Spectrum analyzer
- Network analyzer
- Noise Figure Meter
- Digital oscilloscope

AAI N1201SA UHF-VHF Vector Impedance Analyzer

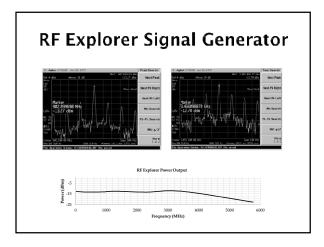


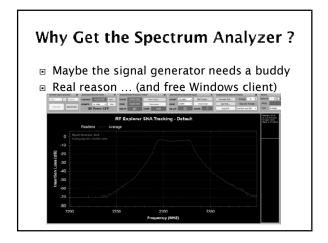
Cheap Enough to Drop from a Tower
And graphs too

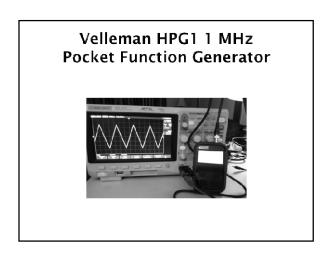
RF Explorer Signal Generator

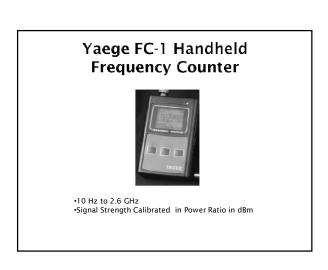


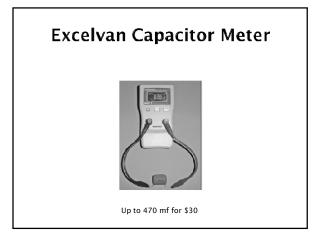
6 GHz for under \$200

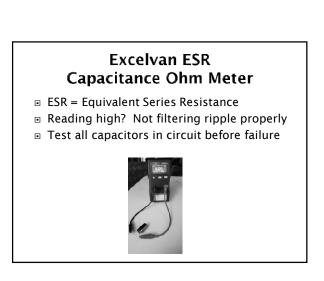












Surecom SF401 Plus



•Useful range 100 MHz to 3 GHz •Can use with both analog and digital radios

Circuit Specialists CSI-Premier-75w

•Very solid soldering station for less than \$60 •5% discount on first order



Coming Attractions

- Signal source from 137 MHz through 4.4 GHz with LCD display for \$65 on eBay. Harmonics take it into 10-24 GHz range
- Power meter covers up to 8 GHz , -55 to -5 dBm with OLED display on eBay for \$34
- Bare-bones Digital Inductance-Capacitance Meter with instructions for \$30 from MPJA.com

Cautions

- Instructions may be skimpy and menus sometimes cryptic
- Have to wait for some items to be shipped from China
- ☐ Thin instructions and engineering increase the possibility of releasing the "magic smoke"

$\ \, Acknowledgements$

- Paul Wade W1GHZ
- Tom Frederiksen KA3FQS