

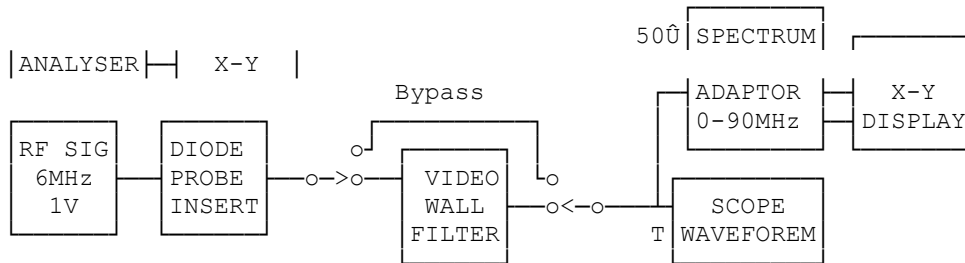
Spectrum Harmonic Demo circuit

By G8MNY

(Updated May 09)

(8 Bit ASCII Graphics use code page 437 or 850)

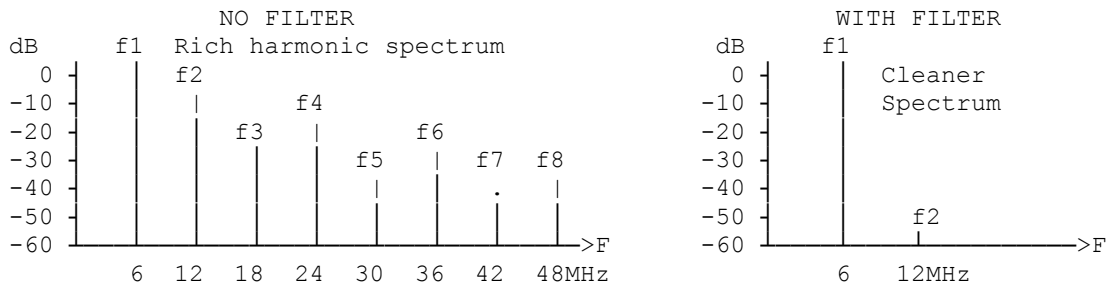
Being involved with ham training, I have been doing all the technical demos including AM and FM (Signal Generator) and this one for harmonics....



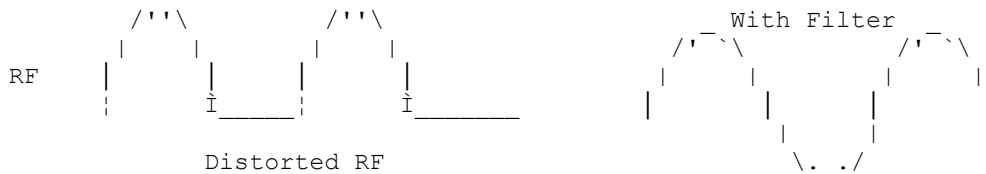
I cheated with the use of a diode probe (series schotky diode for UHF) insert to produce a poor signal when the sig gen is set to 1V output. This caused the RF sine wave is bent enough to see the harmonics on 6MHz on a scope (>20MHz) & the diode output is terminated into 50Ω by the spectrum analyser.

The filter I had is an 8 section M derived video LPF & is 40dB down @ 8MHz, but only 2dB down @ 6MHz. But any suitable filter will show the benefits of a LPF after a harmonic rich source.

SPECTRUM DISPLAYS



SCOPE DISPLAYS



See also my bul "SSB Demo circuit".

Why don't U send an interesting bul?

73 de John G8MNY @ GB7CIP