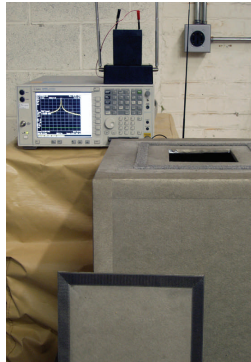
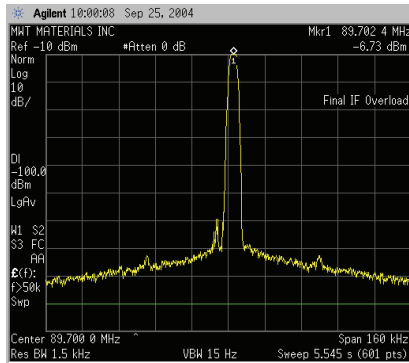


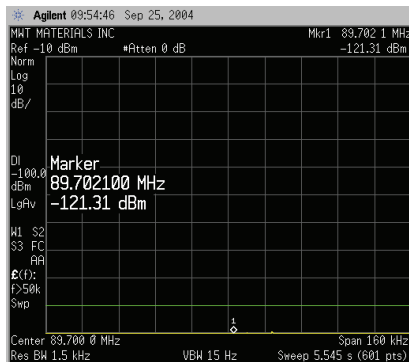
Demonstration of FlexiShield® Radio Frequency Shielding Material

A simple solution for extremely effective signal attenuation

A plywood box of approximately one cubic meter is covered with the shielding material. It is applied using commercially available vinyl wallpaper paste using standard techniques. The same material is used to cover a plywood lid. The lid has conductive Velcro attached in order to secure it.



A portable (battery powered) one watt transmitter set to 89.7 MHz is placed outside of the isolation chamber (with lid open). The graph on a spectrum analyzer at left shows the reference peak (no shielding).



The transmitter is placed inside the isolation chamber and the lid is closed. The material is punctured several times with a screwdriver. The spectrum analyzer now shows signal attenuation in the range of -120 dB.

Notes:

- **Nail, screw and staple punctures have no effect on the signal attenuation (or isolation).**
- The measurement of TRANSMISSION ISOLATION is measured in dB (decibels). The definition of a dB is $10 \text{ Log} (P1/P2)$ where P1 is measured power and P2 is reference power.
- For a typical 1 watt transmission, as shown above, a -100 dB Isolation is subject to a reduction in power to 1/1,000,000,000 watts or 99.99999999 % of the energy being blocked. Therefore, a -120 dB Isolation reduces the radiated power to 1/100,000,000,000 watts with **99.999999999% of the energy being blocked.**

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