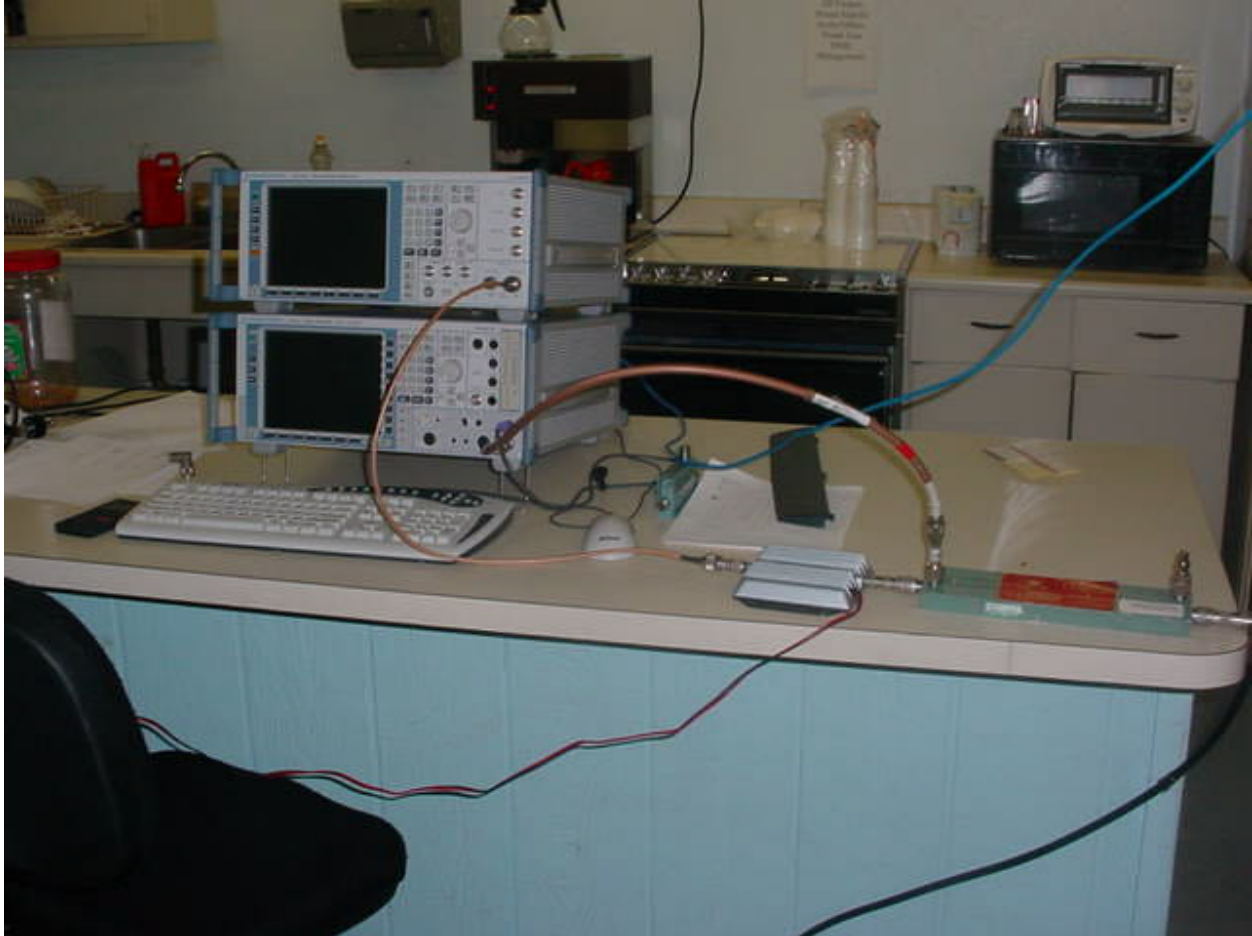


**PHOTO: RF POWER OUTPUT, EMISSIONS LIMITATIONS
GSM/TDMA, OCCUPIED BANDWIDTH
GSM/TDMA, CONDUCTED SPURIOUS
EMISSIONS AT ANTENNA TERMINALS**

Notes:



PHOTOS: RADIATED FIELD STRENGTH OF SPURIOUS EMISSIONS

Notes:



Appendix A

Photographs

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RF Exposure – MPE Calculations

Calculations

The following results shall be assumed to be accurate for the far-field only. These predictions will over-estimate power density in the near-field. Based on the use of a ¼ wavelength radiator, a distance of 20 cm is considered to be in the far-field for all cases.

$$S = PG/4*PI*R^2$$

@ 806 – 825 MHz

P is 140 mW

G is 2 dB (Antenna gain – loss) or $10^{(2/10)}$ or 1.58

R is 20 cm

$$\underline{S = 0.044 \text{ mW/cm}^2}$$

For Occupational/Controlled Exposure

From 300 to 1500 MHz, power density limit is $f/300 \text{ mW/cm}^2$

@ 806 MHz, power density limit is **2.69 mW/cm² for 6 minutes.**

For General Population/Uncontrolled Exposure

From 300 to 1500 MHz, power density limit is $f/1500 \text{ mW/cm}^2$

@ 806 MHz, Power density limit is **0.54 mW/cm² for 30 minutes.**

Conclusion: Meets MPE limits

@ 1850 – 1910 MHz

P is 250 mW

G is 1 dB (Antenna gain – loss) or $10^{(1/10)}$ or 1.26

R is 20 cm

$$\underline{S = 0.063 \text{ mW/cm}^2}$$

For Occupational/Controlled Exposure

From 1,500 to 100,000 MHz, power density limit is **5 mW/cm² for 6 minutes.**

For General Population/Uncontrolled Exposure

From 1,500 to 100,000 MHz, power density limit is **1 mW/cm² for 30 minutes.**

Conclusion: Meets MPE limits