

Results:

The table below lists the frequencies of all emissions detected, and the amplitudes in dBc after adjustments for antenna factors, coax losses, etc. Part 87.139 requires that all emissions removed from the assigned frequency by more than 250 percent of the authorized bandwidth (25 Khz) be attenuated by at least

$$43 + 10\log(pY) \quad \text{dB} \quad (\text{base } 10 \log)$$

where for this transmitter carrier power is
5 watts and mean radiated power is assumed
to be $1.5 \times 5 = 7.5$ watts

$$43 + 10\log(1.5 \times 5) = 51.75 \text{ dB}$$

The table shows that the M15 transmitter does meet this requirement.

FCC ID BULM15
TRANSMITTER PART 2.993 TESTS - RADIATED SPURS
M15 #2 FEBRUARY 18, 1991
OPEN FIELD SITE AT SPECTRUM CONTROL CO., FAIRVIEW, PA.

FREQ, MHZ	dBc
42.066	-78.9
84.133	-75.7
126.200	0
168.266	-64.6
252.400	-76.2
378.600	-75.4
504.800	-62.4
631.000	-66.8
757.200	-76.7
883.400	-73.7
1009.600	-76.2
1135.800	-79.4
1262.000	-76.1

5. Frequency Stability - Part 2.995

Part A - Temperature Stability

Equipment:

M15 (FCC ID BULM15)
Temperature Chamber, Tenney Model SST
Thermometer, Tenney Model 4200
Regulated Power Supply, Deltron Model SP
Coaxial attenuator, 20 watts 20 dB, Bird Model 8306-200-N20
Frequency Counter, BK Precision Model 1851