

### 6b.3 Radiated Spurious Emissions -- Pursuant 47 CFR 2.1053, 2.1057, and 24.133(a)(1)(ii)

#### 6b3.1 901-902 MHz Band

##### FCC Limits

-Per 47 CFR 24.133(a)(1), radiated spurious emissions shall be attenuated below the lesser of the attenuations given below:

- $43 + 10 \log_{10}(P)$  (Thus the effective limit is -13 dBm for any transmitter power level)
- 80 dB (Corresponds to -51.9 dBm for this particular transmitter's power level)

*NOTE 1: Spurious emissions are dependent on the linearity of the Power Amplifier and are independent of modulation type or TDM interleaving. Thus emissions were tested with the radio set to Quad-16QAM at both maximum and minimum radio output power settings.*

*NOTE 2: An asterisk (\*) in the data indicates the spurious emission was less than -33 dBm or could not be detected due to noise limitations or ambients.*

*NOTE 3: Spurious emission levels were measured with the non-detachable antenna mounted on the radio product, as in intended use. Measurement setup is described in Exhibit 7.3.*

*NOTE 4: Spurious emissions are dependent on the linearity of the Power Amplifier (U500) and are independent of modulation type or TDM interleaving. Thus, for the Land Mobile Band, emissions were tested with the radio set to Quad-16QAM.*

Motorola Inc.

FCC ID: IHDT56HG1

Transmit Radiated Spurious Emissions: i290

Tx Power: 640 mWatts

901.49375 MHz

Channel Spacing 25kHz | S/N 364VHEMM87

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1802.9875	-13	*	*
2704.4813	-13	*	*
3605.9750	-13	*	*
4507.4688	-13	*	*
5408.9625	-13	*	*
6310.4563	-13	*	*
7211.9500	-13	*	*
8113.4438	-13	*	*
9014.9375	-13	*	*

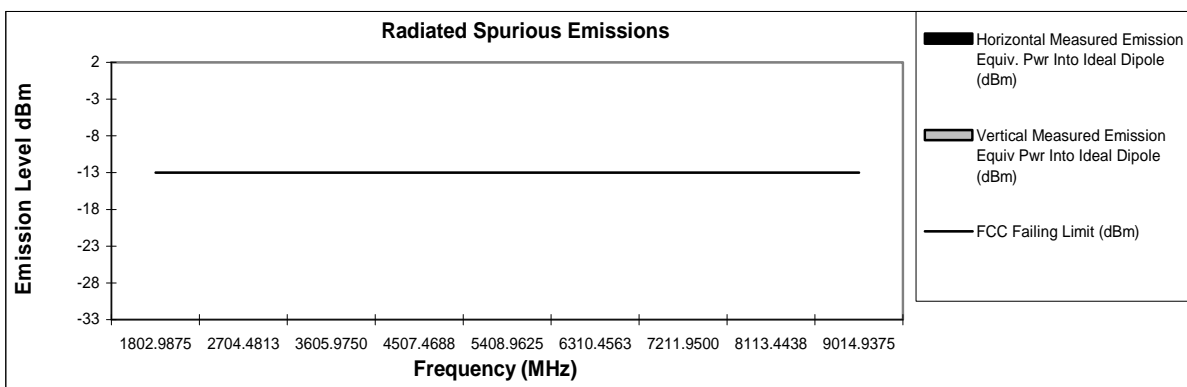


Table 6b.2.1. Spurious emissions at 900.49375 MHz

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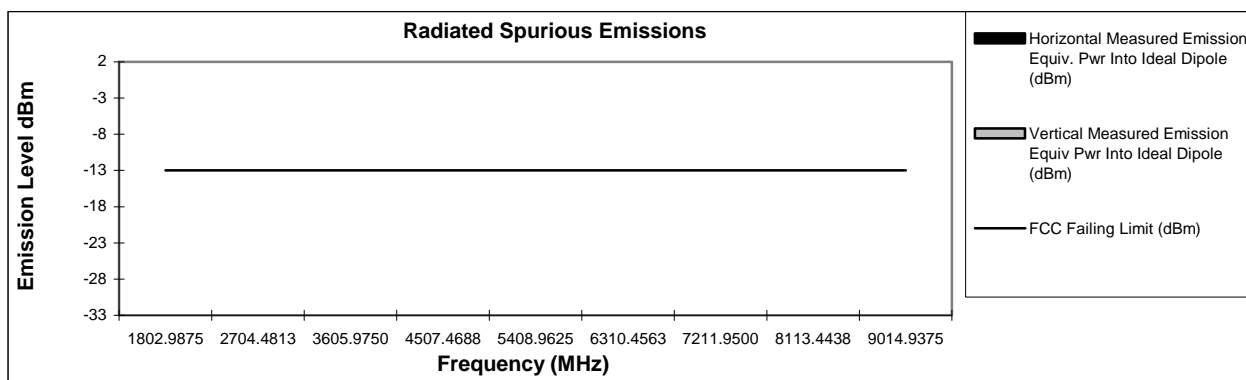
**Transmit Radiated Spurious Emissions: i290**

**Tx Power: Cutback Watts**

**901.49375 MHz**

**Channel Spacing 25kHz | S/N 364VHEMM87**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1802.9875	-13	*	*
2704.4813	-13	*	*
3605.9750	-13	*	*
4507.4688	-13	*	*
5408.9625	-13	*	*
6310.4563	-13	*	*
7211.9500	-13	*	*
8113.4438	-13	*	*
9014.9375	-13	*	*



\* Indicates the spurious emission could not be detected due to noise limitations or ambients.

The data presented here was taken using the substitution method as found in the TIA/EIA-603 document.

Motorola Plantation EMC Lab – Test Performed by: Frank Baader  
 FCC Registration: 91932 / Industry Canada: IC3679A-1

June 15, 2007

Table 6b.2.2. Spurious emissions at 900.49375 MHz (Lowest Power – 34 dB Cutback)