

#### 6.4. Radiated Spurious Emissions -- Pursuant 47 CFR 2.1053, 2.1057, 90.210(g)(3), 90.691(a)(2)

##### FCC Limits

-Per 90.210(g)(3) and 90.691(a)(2), radiated spurious emissions shall be attenuated below the maximum level of emission of the carrier frequency in accordance with the following formula:

Spurious attenuation in dB =  $43 + 10 \log_{10}(P)$   
(Thus the effective limit is -13 dBm for any transmitter 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.*

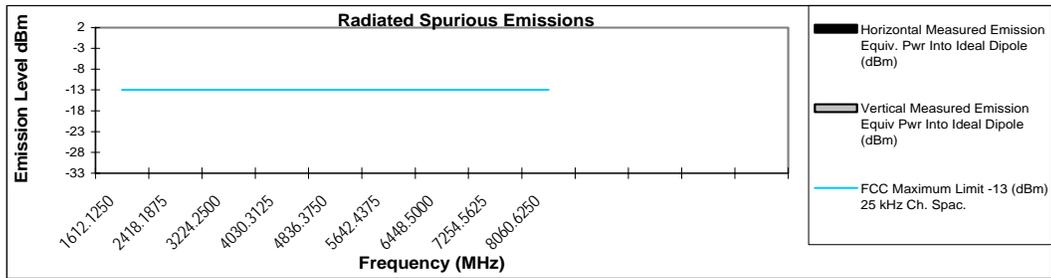
Motorola Inc.

FCC ID:AZ489FT5843

**Transmitter Radiated Spurious Emissions: i930**

**806.0625 MHz      0.64      Channel Spacing 25KHZ    S/N 805AFC000Z**

Spur	Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
2XFund	1612.1250	-13	*	*
3XFund	2418.1875	-13	*	*
4XFund	3224.2500	-13	*	*
5XFund	4030.3125	-13	*	*
6XFund	4836.3750	-13	*	*
7XFund	5642.4375	-13	*	*
8XFund	6448.5000	-13	*	*
9XFund	7254.5625	-13	*	*
10XFund	8060.6250	-13	*	*

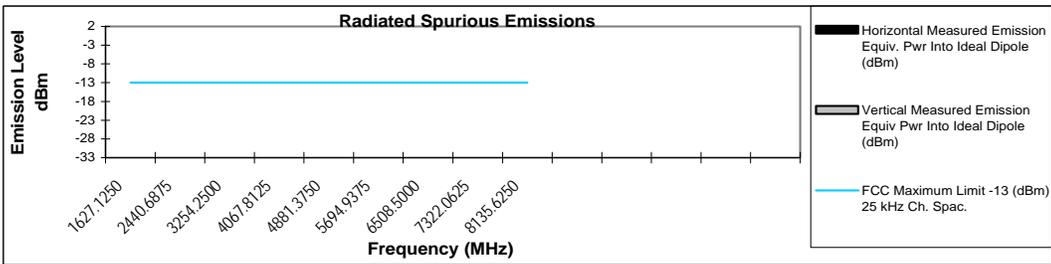


\* Indicates the spurious emission could not be detected due to noise limitations or ambients.

**Transmitter Radiated Spurious Emissions: i930**

**813.5625 MHz      0.64      Channel Spacing 25KHZ    S/N 805AFC000Z**

Spur	Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
2XFund	1627.1250	-13	*	*
3XFund	2440.6875	-13	*	*
4XFund	3254.2500	-13	*	*
5XFund	4067.8125	-13	*	*
6XFund	4881.3750	-13	*	*
7XFund	5694.9375	-13	*	*
8XFund	6508.5000	-13	*	*
9XFund	7322.0625	-13	*	*
10XFund	8135.6250	-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

April 12, 2005

**Figure 6-90a: Maximum Power Setting Transmitter Spurious Emissions**

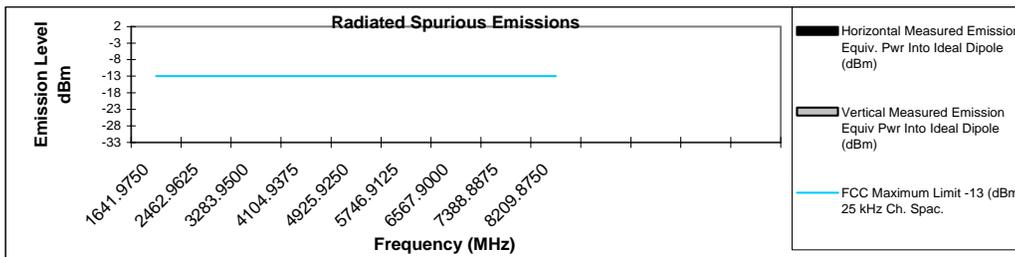
Motorola Inc.

FCC ID:AZ489FT5843

**Transmitter Radiated Spurious Emissions: i930**

**820.9875 MHz      0.64      Channel Spacing 25KHZ      S/N 805AFC000Z**

Spur	Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
2XFund	1641.9750	-13	*	*
3XFund	2462.9625	-13	*	*
4XFund	3283.9500	-13	*	*
5XFund	4104.9375	-13	*	*
6XFund	4925.9250	-13	*	*
7XFund	5746.9125	-13	*	*
8XFund	6567.9000	-13	*	*
9XFund	7388.8875	-13	*	*
10XFund	8209.8750	-13	*	*

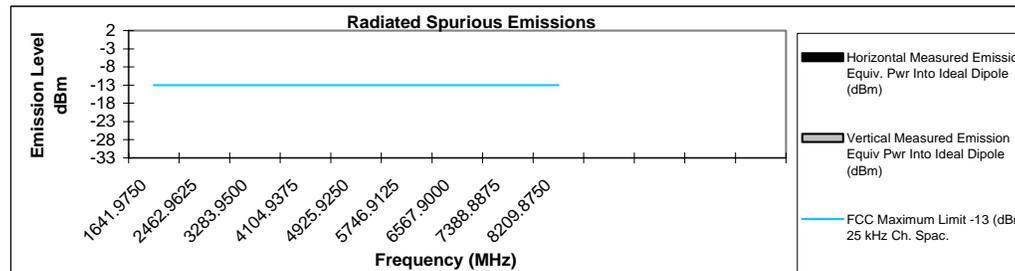


\* Indicates the spurious emission could not be detected due to noise limitations or ambients.

**Transmitter Radiated Spurious Emissions: i930**

**824.9875 MHz      0.64      Channel Spacing 25KHZ      S/N 805AFC000Z**

Spur	Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
2XFund	1641.9750	-13	*	*
3XFund	2462.9625	-13	*	*
4XFund	3283.9500	-13	*	*
5XFund	4104.9375	-13	*	*
6XFund	4925.9250	-13	*	*
7XFund	5746.9125	-13	*	*
8XFund	6567.9000	-13	*	*
9XFund	7388.8875	-13	*	*
10XFund	8209.8750	-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

April 12, 2005

FCC Registration: 91932 / Industry Canada: IC3679

**Figure 6-90b: Maximum Power Setting Transmitter Spurious Emissions**

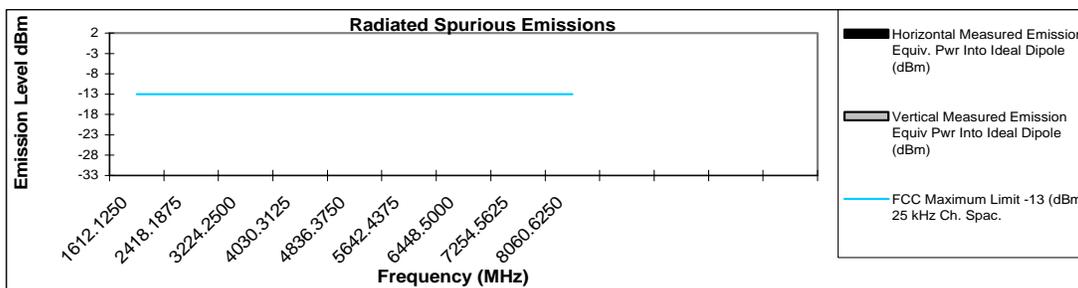


Motorola Inc.

FCC ID:AZ489FT5843

**Transmitter Radiated Spurious Emissions: i930**

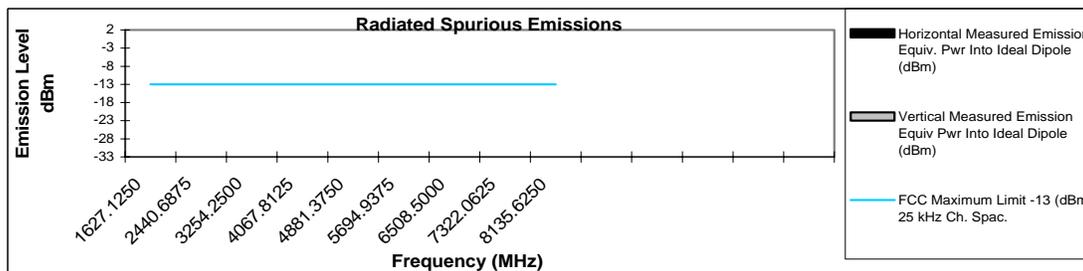
806.0625 MHz		cutback		Channel Spacing 25KHZ		S/N 805AFC000Z	
Spur	Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)			
2XFund	1612.1250	-13	*	*			
3XFund	2418.1875	-13	*	*			
4XFund	3224.2500	-13	*	*			
5XFund	4030.3125	-13	*	*			
6XFund	4836.3750	-13	*	*			
7XFund	5642.4375	-13	*	*			
8XFund	6448.5000	-13	*	*			
9XFund	7254.5625	-13	*	*			
10XFund	8060.6250	-13	*	*			



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

**Transmitter Radiated Spurious Emissions: i930**

813.5625 MHz		cutback		Channel Spacing 25KHZ		S/N 805AFC000Z	
Spur	Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)			
2XFund	1627.1250	-13	*	*			
3XFund	2440.6875	-13	*	*			
4XFund	3254.2500	-13	*	*			
5XFund	4067.8125	-13	*	*			
6XFund	4881.3750	-13	*	*			
7XFund	5694.9375	-13	*	*			
8XFund	6508.5000	-13	*	*			
9XFund	7322.0625	-13	*	*			
10XFund	8135.6250	-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: IC3679

April 12, 2005

**Figure 6-92a: Minimum Power Setting Transmitter Spurious Emissions**



Motorola Inc.

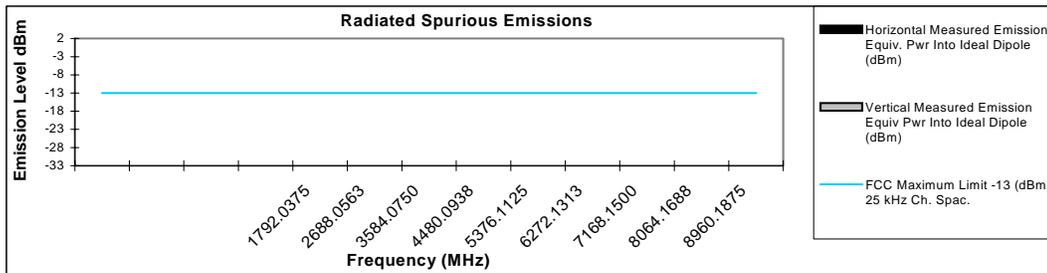
FCC ID:AZ489FT5833

**Transmitter Radiated Spurious Emissions: H73XAN6RR4AN**

**896.01875 MHz**

**Channel Spacing 25KHZ S/N 364AEEQLMM**

Spur	Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
		-13		
		-13		
		-13		
		-13		
2XFund	1792.0375	-13	*	*
3XFund	2688.0563	-13	*	*
4XFund	3584.0750	-13	*	*
5XFund	4480.0938	-13	*	*
6XFund	5376.1125	-13	*	*
7XFund	6272.1313	-13	*	*
8XFund	7168.1500	-13	*	*
9XFund	8064.1688	-13	*	*
10XFund	8960.1875	-13	*	*



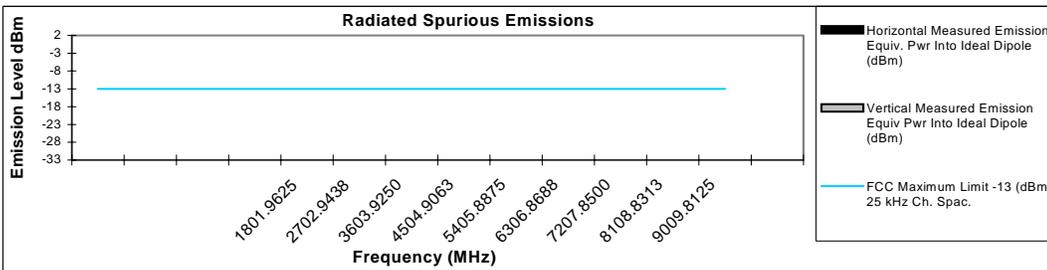
\* Indicates the spurious emission could not be detected due to noise limitations or ambients.

**Transmitter Radiated Spurious Emissions: H73XAN6RR4AN**

**900.98125 MHz**

**Channel Spacing 25KHZ S/N 364AEEQLMM**

Spur	Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
		-13		
		-13		
		-13		
		-13		
2XFund	1801.9625	-13	*	*
3XFund	2702.9438	-13	*	*
4XFund	3603.9250	-13	*	*
5XFund	4504.9063	-13	*	*
6XFund	5405.8875	-13	*	*
7XFund	6306.8688	-13	*	*
8XFund	7207.8500	-13	*	*
9XFund	8108.8313	-13	*	*
10XFund	9009.8125	-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: Constantin Belean

April 6, 2004

FCC Registration: 91932 / Industry Canada: IC3679

**Figure 6-93: Minimum Power Setting Transmitter Spurious Emissions**