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

### **FCC Limits**

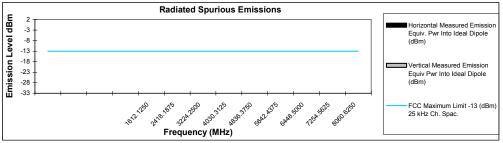
-Per 90.210(g)(3) and 90.691(a)(2), radiated spurious emissions shall be attenuated below the maximum level of emission of the carrier frequency in accordance with the following formula:

Spurious attenuation in dB = 43 + 10 log<sub>10</sub> (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 (U516) 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. Data is presented for both primary source and alternate source Power Amplifier (U516).
- 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.

#### **Transmitter Radiated Spurious Emissions: Maximum Power Setting**

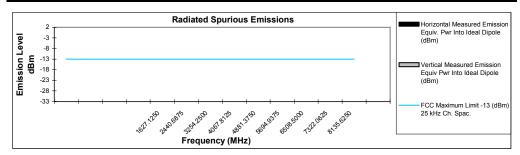
	806.0625 MHz		Channel Spacing 25 kHz S/N 1205 364AD		N 1205 364ADE0038
				Horizontal Measured	Vertical Measured
ı			FCC Maximum Limit -13	Emission Equiv. Pwr Into	Emission Equiv Pwr Into
	Spur	Frequency (MHz)	(dBm) 25 kHz Ch. Spac.	Ideal Dipole (dBm)	Ideal Dipole (dBm)
			-13		
			-13		
			-13		
			-13		
	2XFund	1612.1250	-13	<-33 dBm	<-33 dBm
	3XFund	2418.1875	-13	<-33 dBm	<-33 dBm
	4XFund	3224.2500	-13	<-33 dBm	<-33 dBm
	5XFund	4030.3125	-13	*	*
	6XFund	4836.3750	-13	*	*
	7XFund	5642.4375	-13	*	*
	8XFund	6448.5000	-13	*	*
	9XFund	7254.5625	-13	*	*
	10XFund	8060.6250	-13	*	*



<sup>\*</sup> Indicates the spurious emission was less than -33dBm or could not be detected due to noise limitations or ambients.

#### Transmitter Radiated Spurious Emissions: Maximum Power Setting 813.5625 MHz Channel Spacing 25 kHz S/N i205 364ADE0038

			<u> </u>	
		FCC Maximum Limit -13	Horizontal Measured Emission Equiv. Pwr Into	Vertical Measured Emission Equiv Pwr Into
Spur	Frequency (MHz)	(dBm) 25 kHz Ch. Spac.	Ideal Dipole (dBm)	Ideal Dipole (dBm)
		-13		
		-13		
		-13		
		-13		
2XFund	1627.1250	-13	<-33 dBm	<-33 dBm
3XFund	2440.6875	-13	<-33 dBm	<-33 dBm
4XFund	3254.2500	-13	<-33 dBm	<-33 dBm
5XFund	4067.8125	-13	*	*
6XFund	4881.3750	-13	*	*
7XFund	5694.9375	-13	*	*
8XFund	6508.5000	-13	*	*
9XFund	7322.0625	-13	*	*
10XFund	8135.6250	-13	*	*



<sup>\*</sup> Indicates the spurious emission was less than -33dBm or 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.

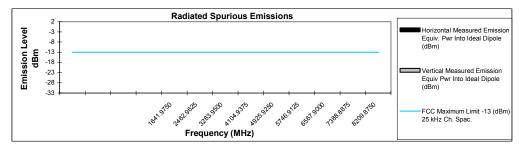
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March 21, 2003

Figure 6-23a: Primary PA (U516) Source Maximum Power Setting Transmitter Spurious Emissions

<b>Transmitter Radiated Spurious</b>	<b>Emissions: Maximum Power Setting</b>
820.9875 MHz	Channel Spacing 25 kHz S/N i205 364ADE0038

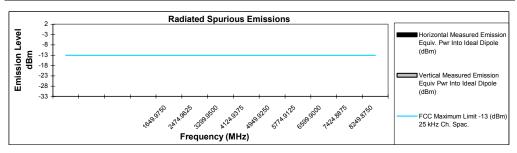
			Horizontal Measured	Vertical Measured
		FCC Maximum Limit -13	Emission Equiv. Pwr Into	Emission Equiv Pwr Into
Spur	Frequency (MHz)	(dBm) 25 kHz Ch. Spac.	Ideal Dipole (dBm)	Ideal Dipole (dBm)
		-13		
		-13		
		-13		
		-13		
2XFund	1641.9750	-13	<-33 dBm	<-33 dBm
3XFund	2462.9625	-13	<-33 dBm	<-33 dBm
4XFund	3283.9500	-13	<-33 dBm	<-33 dBm
5XFund	4104.9375	-13	*	*
6XFund	4925.9250	-13	*	*
7XFund	5746.9125	-13	*	*
8XFund	6567.9000	-13	*	*
9XFund	7388.8875	-13	*	*
10XFund	8209.8750	-13	*	*



<sup>\*</sup> Indicates the spurious emission was less than -33 dBm or could not be detected due to noise limitations or ambients.

## Transmitter Radiated Spurious Emissions: Maximum Power Setting 824.9875 MHz Channel Spacing 25 kHz S/N i205 364ADE0038

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	1649.9750	-13	<-33 dBm	<-33 dBm
3XFund	2474.9625	-13	<-33 dBm	<-33 dBm
4XFund	3299.9500	-13	<-33 dBm	<-33 dBm
5XFund	4124.9375	-13	*	*
6XFund	4949.9250	-13	*	*
7XFund	5774.9125	-13	*	*
8XFund	6599.9000	-13	*	*
9XFund	7424.8875	-13	*	*
10XFund	8249.8750	-13	*	*



<sup>\*</sup> Indicates the spurious emission was less than -33 dBm or 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.

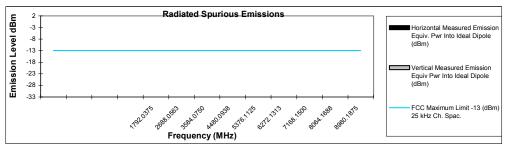
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March 21, 2003

Figure 6-23b: Primary PA (U516) Source Maximum Power Setting Transmitter Spurious Emissions

# Transmitter Radiated Spurious Emissions: Maximum Power Setting 896.01875 MHz Channel Spacing 25 kHz S/N i205 364.

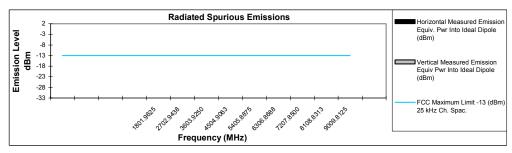
	896.01875 MHz		Channel	Spacing 25 kHz S/I	N i205 364ADE0038
	Spur	Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
Г			-13		
Π			-13		
ı			-13		
ı			-13		
Γ	2XFund	1792.0375	-13	<-33 dBm	<-33 dBm
	3XFund	2688.0563	-13	<-33 dBm	<-33 dBm
Γ	4XFund	3584.0750	-13	<-33 dBm	<-33 dBm
ı	5XFund	4480.0938	-13	*	*
ı	6XFund	5376.1125	-13	*	*
ı	7XFund	6272.1313	-13	*	*
ı	8XFund	7168.1500	-13	*	*
	9XFund	8064.1688	-13	*	*
ı	10XFund	8960 1875	-13	*	*



<sup>\*</sup> Indicates the spurious emission was less than -33 dBm or could not be detected due to noise limitations or ambients.

### Transmitter Radiated Spurious Emissions: Maximum Power Setting 900.98125 MHz Channel Spacing 25 kHz S/N i205 364ADE0038

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	<-33 dBm	<-33 dBm
3XFund	2702.9438	-13	<-33 dBm	<-33 dBm
4XFund	3603.9250	-13	<-33 dBm	<-33 dBm
5XFund	4504.9063	-13	*	*
6XFund	5405.8875	-13	*	*
7XFund	6306.8688	-13	*	*
8XFund	7207.8500	-13	*	*
9XFund	8108.8313	-13	*	*
10XFund	9009.8125	-13	*	*



<sup>\*</sup> Indicates the spurious emission was less than -33 dBm or 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.

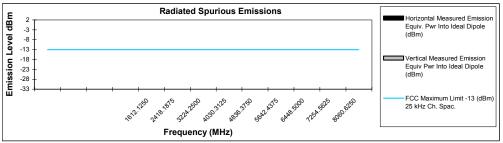
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March 21, 2003

Figure 6-24: Primary PA (U516) Source Maximum Power Setting Transmitter Spurious Emissions

## Transmitter Radiated Spurious Emissions: Minimum Power Setting 806.0625 MHz Channel Spacing 25 kHz S/N i205 364ADE0038

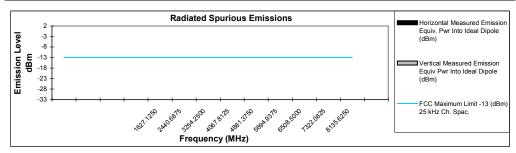
000.0023 WITIZ		Chairner Spacing 25 kirz 3/14 1205 304ADE0050		
Spur	Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
		-13		
		-13		
		-13		
		-13		
2XFund	1612.1250	-13	<-33 dBm	<-33 dBm
3XFund	2418.1875	-13	<-33 dBm	<-33 dBm
4XFund	3224.2500	-13	<-33 dBm	<-33 dBm
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 was less than -33dBm or could not be detected due to noise limitations or ambients.

#### Transmitter Radiated Spurious Emissions: Minimum Power Setting 813.5625 MHz Channel Spacing 25 kHz S/N i205 364ADE0038

			<u> </u>	
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	1627.1250	-13	<-33 dBm	<-33 dBm
3XFund	2440.6875	-13	<-33 dBm	<-33 dBm
4XFund	3254.2500	-13	<-33 dBm	<-33 dBm
5XFund	4067.8125	-13	*	*
6XFund	4881.3750	-13	*	*
7XFund	5694.9375	-13	*	*
8XFund	6508.5000	-13	*	*
9XFund	7322.0625	-13	*	*
10XFund	8135.6250	-13	*	*



<sup>\*</sup> Indicates the spurious emission was less than -33dBm or 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.

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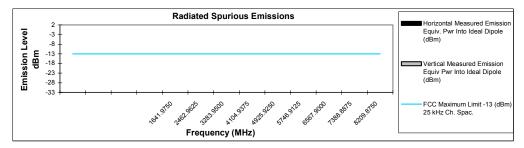
March 21, 2003

Motorola Inc. FCC ID:AZ489FT5822

Figure 6-25a: Primary PA (U516) Source Minimum Power Setting Transmitter Spurious Emissions

Transmitter Radiated Spurious E	missions: Minimum Pov	wer Setting
820.9875 MHz	Channel Spacing 25 kHz	S/N i205 364ADE0038

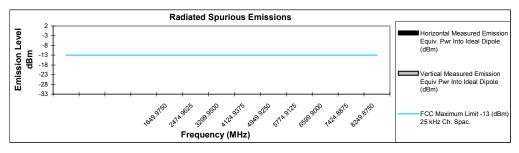
			Horizontal Measured	Vertical Measured
		FCC Maximum Limit -13	Emission Equiv. Pwr Into	Emission Equiv Pwr Into
Spur	Frequency (MHz)	(dBm) 25 kHz Ch. Spac.	Ideal Dipole (dBm)	Ideal Dipole (dBm)
		-13		
		-13		
		-13		
		-13		
2XFund	1641.9750	-13	<-33 dBm	<-33 dBm
3XFund	2462.9625	-13	<-33 dBm	<-33 dBm
4XFund	3283.9500	-13	<-33 dBm	<-33 dBm
5XFund	4104.9375	-13	*	*
6XFund	4925.9250	-13	*	*
7XFund	5746.9125	-13	*	*
8XFund	6567.9000	-13	*	*
9XFund	7388.8875	-13	*	*
10XFund	8209.8750	-13	*	*



<sup>\*</sup> Indicates the spurious emission was less than -33 dBm or could not be detected due to noise limitations or ambients.

### Transmitter Radiated Spurious Emissions: Minimum Power Setting 824.9875 MHz Channel Spacing 25 kHz S/N i205 364ADE0038

		FCC Maximum Limit -13	Horizontal Measured Emission Equiv. Pwr Into	Vertical Measured Emission Equiv Pwr Into
0	[(NALI=)			
Spur	Frequency (MHz)	(dBm) 25 kHz Ch. Spac.	Ideal Dipole (dBm)	Ideal Dipole (dBm)
		-13		
		-13		
		-13		
		-13		
2XFund	1649.9750	-13	<-33 dBm	<-33 dBm
3XFund	2474.9625	-13	<-33 dBm	<-33 dBm
4XFund	3299.9500	-13	<-33 dBm	<-33 dBm
5XFund	4124.9375	-13	*	*
6XFund	4949.9250	-13	*	*
7XFund	5774.9125	-13	*	*
8XFund	6599.9000	-13	*	*
9XFund	7424.8875	-13	*	*
10XFund	8249.8750	-13	*	*



<sup>\*</sup> Indicates the spurious emission was less than -33 dBm or 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.

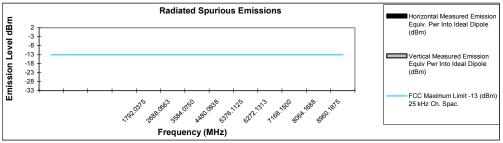
Motorola Plantation EMC Lab – Test Performed by: Frank Baader

March 21, 2003

Figure 6-25b: Primary PA (U516) Source Minimum Power Setting Transmitter Spurious Emissions

# Transmitter Radiated Spurious Emissions: Minimum Power Setting 896.01875 MHz Channel Spacing 25 kHz S/N i205 364ADE0038

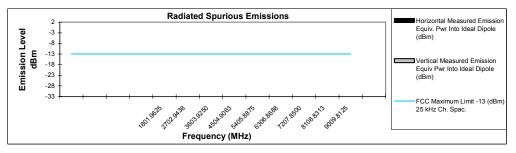
		-			
ľ			50014	Horizontal Measured	Vertical Measured
ı			FCC Maximum Limit -13	Emission Equiv. Pwr Into	Emission Equiv Pwr Into
	Spur	Frequency (MHz)	(dBm) 25 kHz Ch. Spac.	Ideal Dipole (dBm)	Ideal Dipole (dBm)
I			-13		
			-13		
Γ			-13		
Γ			-13		
Г	2XFund	1792.0375	-13	<-33 dBm	<-33 dBm
Г	3XFund	2688.0563	-13	<-33 dBm	<-33 dBm
Ι	4XFund	3584.0750	-13	<-33 dBm	<-33 dBm
Г	5XFund	4480.0938	-13	*	*
Γ	6XFund	5376.1125	-13	*	*
Г	7XFund	6272.1313	-13	*	*
Γ	8XFund	7168.1500	-13	*	*
ſ	9XFund	8064.1688	-13	*	*
ſ	10XFund	8960.1875	-13	*	*



<sup>\*</sup> Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

## Transmitter Radiated Spurious Emissions: Minimum Power Setting 900.98125 MHz Channel Spacing 25 kHz S/N i205 364ADE0038

			Horizontal Measured	Vertical Measured
		FCC Maximum Limit -13	Emission Equiv. Pwr Into	Emission Equiv Pwr Into
Spur	Frequency (MHz)	(dBm) 25 kHz Ch. Spac.	Ideal Dipole (dBm)	Ideal Dipole (dBm)
		-13		
		-13		
		-13		
		-13		
2XFund	1801.9625	-13	<-33 dBm	<-33 dBm
3XFund	2702.9438	-13	<-33 dBm	<-33 dBm
4XFund	3603.9250	-13	<-33 dBm	<-33 dBm
5XFund	4504.9063	-13	*	*
6XFund	5405.8875	-13	*	*
7XFund	6306.8688	-13	*	*
8XFund	7207.8500	-13	*	*
9XFund	8108.8313	-13	*	*
10XFund	9009.8125	-13	*	*



<sup>\*</sup> Indicates the spurious emission was less than -70dBm or 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.

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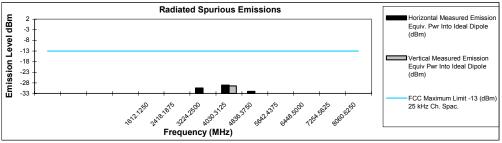
March 21, 2003

Motorola Inc. FCC ID:5822

Figure 6-26: Primary PA (U516) Source Minimum Power Setting Transmitter Spurious Emissions

#### **Transmitter Radiated Spurious Emissions: Maximum Power Setting**

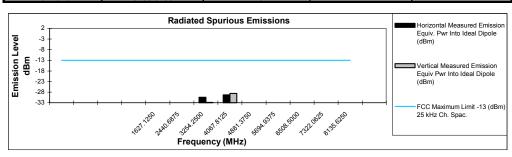
	806.0625 MHZ		Channel	Spacing 25 kHz S/N	1 1205 364ADE002Q
Ī	Spur	Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
Г			-13		
Γ			-13		
I			-13		
I			-13		
Г	2XFund	1612.1250	-13	<-33 dBm	<-33 dBm
I	3XFund	2418.1875	-13	<-33 dBm	<-33 dBm
	4XFund	3224.2500	-13	-30.36	<-33 dBm
Г	5XFund	4030.3125	-13	-29.03	-29.40
I	6XFund	4836.3750	-13	-31.96	*
	7XFund	5642.4375	-13	*	*
Ι	8XFund	6448.5000	-13	*	*
	9XFund	7254.5625	-13	*	*
Г	10XFund	8060.6250	-13	*	*



<sup>\*</sup> Indicates the spurious emission was less than -33 dBm or could not be detected due to noise limitations or ambients.

## Transmitter Radiated Spurious Emissions: Maximum Power Setting 813.5625 MHz Channel Spacing 25 kHz S/N i205 364ADE002Q

			1 0	
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	1627.1250	-13	<-33 dBm	<-33 dBm
3XFund	2440.6875	-13	<-33 dBm	<-33 dBm
4XFund	3254.2500	-13	-30.39	-32.80
5XFund	4067.8125	-13	-29.26	-28.64
6XFund	4881.3750	-13	*	*
7XFund	5694.9375	-13	*	*
8XFund	6508.5000	-13	*	*
9XFund	7322.0625	-13	*	*
10XFund	8135.6250	-13	*	*



<sup>\*</sup> Indicates the spurious emission was less than -33 dBm or 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.

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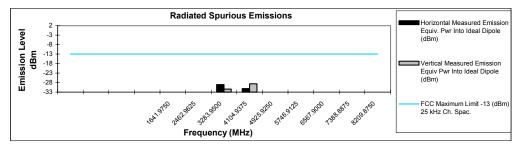
March 24, 2003

Figure 6-27a: Alternate PA (U516) Source Maximum Power Setting Transmitter Spurious Emissions

Motorola Inc. FCC ID:AZ489FT5822

Transmitter Radiated Spurious Emissions: Maximum Power Setting
820.9875 MHz Channel Spacing 25 kHz S/N i205 364ADE002Q

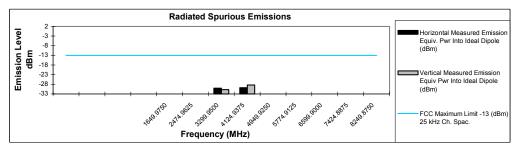
			Horizontal Measured	Vertical Measured
		FCC Maximum Limit -13	Emission Equiv. Pwr Into	Emission Equiv Pwr Into
Spur	Frequency (MHz)	(dBm) 25 kHz Ch. Spac.	Ideal Dipole (dBm)	Ideal Dipole (dBm)
		-13		
		-13		
		-13		
		-13		
2XFund	1641.9750	-13	<-33 dBm	<-33 dBm
3XFund	2462.9625	-13	<-33 dBm	<-33 dBm
4XFund	3283.9500	-13	-29.08	-31.37
5XFund	4104.9375	-13	-31.14	-28.67
6XFund	4925.9250	-13	*	*
7XFund	5746.9125	-13	*	*
8XFund	6567.9000	-13	*	*
9XFund	7388.8875	-13	*	*
10XFund	8209.8750	-13	*	*



<sup>\*</sup> Indicates the spurious emission was less than -33 dBm or could not be detected due to noise limitations or ambients.

## Transmitter Radiated Spurious Emissions: Maximum Power Setting 824.9875 MHz Channel Spacing 25 kHz S/N i205 364ADE002Q

			<u> </u>	
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	1	
		-13		
		-13		
		-13		
2XFund	1649.9750	-13	<-33 dBm	<-33 dBm
3XFund	2474.9625	-13	<-33 dBm	<-33 dBm
4XFund	3299.9500	-13	-30.05	-30.77
5XFund	4124.9375	-13	-29.75	-28.39
6XFund	4949.9250	-13	*	*
7XFund	5774.9125	-13	*	*
8XFund	6599.9000	-13	*	*
9XFund	7424.8875	-13	*	*
10XFund	8249 8750	-13	*	*



<sup>\*</sup> Indicates the spurious emission was less than -33 dBm or 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.

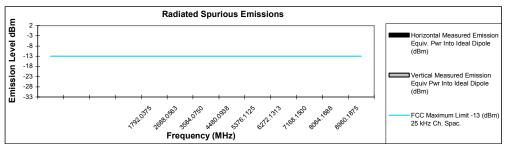
Motorola Plantation EMC Lab – Test Performed by: Frank Baader FCC Registration: 91932 / Industry Canada: IC3679

March 24, 2003

Figure 6-27b: Alternate PA (U516) Source Maximum Power Setting Transmitter Spurious Emissions

### Transmitter Radiated Spurious Emissions: Maximum Power Setting

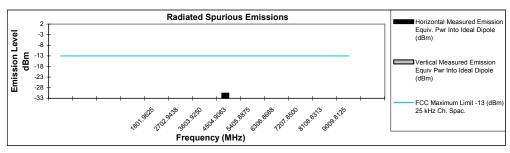
896.01875 MHz Channel Spacing 25 kHz S/N i205 364ADE002Q Horizontal Measured FCC Maximum Limit -13 Emission Equiv. Pwr Into Emission Equiv Pwr Into Spur Frequency (MHz) (dBm) 25 kHz Ch. Spac. Ideal Dipole (dBm) Ideal Dipole (dBm) -13 -13 2XFund 1792.0375 -13 <-33 dBm <-33 dBm 2688.0563 3XFund -13 <-33 dBm <-33 dBm 4XFund 3584.0750 <-33 dBm <-33 dBm 4480.0938 6XFund 5376.1125 -13 7XFund 6272.1313 -13 8XFund 7168,1500 -13 9XFund 8064 1688 -13 10XFund 8960.1875 -13



Indicates the spurious emission was less than -33 dBm or could not be detected due to noise limitations or ambients.

## Transmitter Radiated Spurious Emissions: Maximum Power Setting 900.98125 MHz Channel Spacing 25 kHz S/N i205 364ADE002Q

		1		
			Horizontal Measured	Vertical Measured
I		FCC Maximum Limit -13	Emission Equiv. Pwr Into	Emission Equiv Pwr Into
Spur	Frequency (MHz)	(dBm) 25 kHz Ch. Spac.	Ideal Dipole (dBm)	Ideal Dipole (dBm)
		-13		
		-13		
		-13		
		-13		
2XFur	nd 1801.9625	-13	<-33 dBm	<-33 dBm
3XFur	nd 2702.9438	-13	<-33 dBm	<-33 dBm
4XFur	nd 3603.9250	-13	<-33 dBm	<-33 dBm
5XFur	nd 4504.9063	-13	-30.56	*
6XFur	nd 5405.8875	-13	*	*
7XFur	nd 6306.8688	-13	*	*
8XFur	nd 7207.8500	-13	*	*
9XFur	nd 8108.8313	-13	*	*
10XFu	nd 9009.8125	-13	*	*



<sup>\*</sup> Indicates the spurious emission was less than -33 dBm or 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.

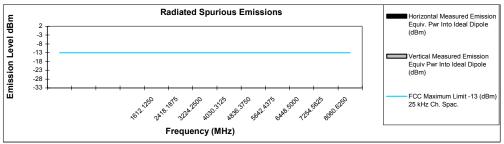
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Figure 6-28: Alternate PA (U516) Source Maximum Power Setting Transmitter Spurious Emissions

#### **Transmitter Radiated Spurious Emissions: Minimum Power Setting**

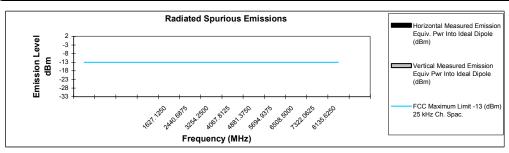
806.0625 MHz		Channel	Spacing 25 kHz S/N	i 205 364ADE002Q
Spur	Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
		-13		
		-13		
		-13		
		-13		
2XFund	1612.1250	-13	<-33 dBm	<-33 dBm
3XFund	2418.1875	-13	<-33 dBm	<-33 dBm
4XFund	3224.2500	-13	<-33 dBm	<-33 dBm
5XFund	4030.3125	-13	*	*
6XFund	4836.3750	-13	*	*
7XFund	5642.4375	-13	*	*
8XFund	6448.5000	-13	*	*
9XFund	7254.5625	-13	*	*
10XFund	8060.6250	-13	*	*



<sup>1</sup> Indicates the spurious emission was less than -33 dBm or could not be detected due to noise limitations or ambients.

## Transmitter Radiated Spurious Emissions: Minimum Power Setting 813.5625 MHz Channel Spacing 25 kHz S/N i205 364ADE002Q

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)
	. , ,	10	,	,
		-13		
		-13		
		-13		
		-13		
2XFund	1627.1250	-13	<-33 dBm	<-33 dBm
3XFund	2440.6875	-13	<-33 dBm	<-33 dBm
4XFund	3254.2500	-13	<-33 dBm	<-33 dBm
5XFund	4067.8125	-13	*	*
6XFund	4881.3750	-13	*	*
7XFund	5694.9375	-13	*	*
8XFund	6508.5000	-13	*	*
9XFund	7322.0625	-13	*	*
10XFund	8135.6250	-13	*	*



<sup>\*</sup> Indicates the spurious emission was less than -33 dBm or 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.

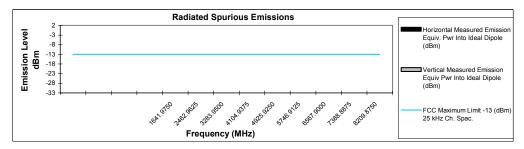
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March 24, 2003

Figure 6-29a: Alternate PA (U516) Source Minimum Power Setting Transmitter Spurious Emissions

<b>Transmitter Radiated Spurious</b>	Emissions: Minimum Po	wer Setting
820.9875 MHz	Channel Spacing 25 kHz	S/N i205 364ADE002Q

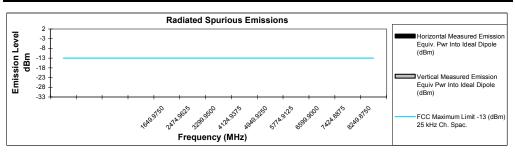
		FCC Maximum Limit -13	Horizontal Measured Emission Equiv. Pwr Into	Vertical Measured Emission Equiv Pwr Into
Spur	Frequency (MHz)	(dBm) 25 kHz Ch. Spac.	Ideal Dipole (dBm)	Ideal Dipole (dBm)
		-13		
		-13		
		-13		
		-13		
2XFund	1641.9750	-13	<-33 dBm	<-33 dBm
3XFund	2462.9625	-13	<-33 dBm	<-33 dBm
4XFund	3283.9500	-13	<-33 dBm	<-33 dBm
5XFund	4104.9375	-13	*	*
6XFund	4925.9250	-13	*	*
7XFund	5746.9125	-13	*	*
8XFund	6567.9000	-13	*	*
9XFund	7388.8875	-13	*	*
10XFund	8209.8750	-13	*	*



<sup>\*</sup> Indicates the spurious emission was less than -33 dBm or could not be detected due to noise limitations or ambients.

## Transmitter Radiated Spurious Emissions: Minimum Power Setting 824.9875 MHz Channel Spacing 25 kHz S/N i205 364ADE002Q

			Horizontal Measured	Vertical Measured
		FCC Maximum Limit -13	Emission Equiv. Pwr Into	Emission Equiv Pwr Into
Spur	Frequency (MHz)	(dBm) 25 kHz Ch. Spac.	Ideal Dipole (dBm)	Ideal Dipole (dBm)
		-13		
		-13		
		-13		
		-13		
2XFund	1649.9750	-13	<-33 dBm	<-33 dBm
3XFund	2474.9625	-13	<-33 dBm	<-33 dBm
4XFund	3299.9500	-13	<-33 dBm	<-33 dBm
5XFund	4124.9375	-13	*	*
6XFund	4949.9250	-13	*	*
7XFund	5774.9125	-13	*	*
8XFund	6599.9000	-13	*	*
9XFund	7424.8875	-13	*	*
10XFund	8249.8750	-13	*	*



<sup>\*</sup> Indicates the spurious emission was less than -33 dBm or 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.

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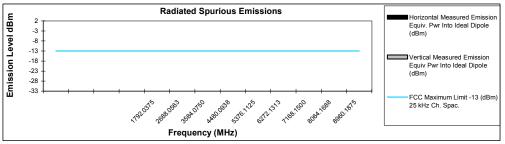
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Figure 6-29b: Alternate PA (U516) Source Minimum Power Setting Transmitter Spurious Emissions

10XFund

### Transmitter Radiated Spurious Emissions: Minimum Power Setting

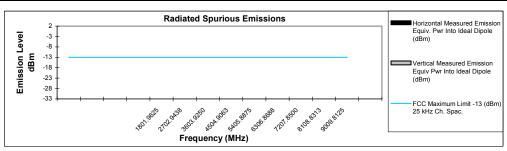
896.01875 MHz Channel Spacing 25 kHz S/N i205 364ADE002Q Horizontal Measured FCC Maximum Limit -13 Emission Equiv. Pwr Into Emission Equiv Pwr Into Ideal Dipole (dBm) Spur Frequency (MHz) (dBm) 25 kHz Ch. Spac. Ideal Dipole (dBm) -13 -13 2XFund 1792.0375 <-33 dBm <-33 dBm 3XFund <-33 dBm <-33 dBm 4XFund 3584.0750 <-33 dBm <-33 dBm 5XFund 4480.0938 -13 6XFund 5376,1125 -13 7XFund 6272 1313 -13 8XFund 7168.1500 -13 9XFund 8064,1688 -13



<sup>\*</sup> Indicates the spurious emission was less than -33 dBm or could not be detected due to noise limitations or ambients.

### Transmitter Radiated Spurious Emissions: Minimum Power Setting 900.98125 MHz Channel Spacing 25 kHz S/N i205 364ADE002Q

			Horizontal Measured	Vertical Measured
		FCC Maximum Limit -13	Emission Equiv. Pwr Into	Emission Equiv Pwr Into
Spur	Frequency (MHz)	(dBm) 25 kHz Ch. Spac.	Ideal Dipole (dBm)	Ideal Dipole (dBm)
		-13		
		-13		
		-13		
		-13		
2XFund	1801.9625	-13	<-33 dBm	<-33 dBm
3XFund	2702.9438	-13	<-33 dBm	<-33 dBm
4XFund	3603.9250	-13	<-33 dBm	<-33 dBm
5XFund	4504.9063	-13	*	*
6XFund	5405.8875	-13	*	*
7XFund	6306.8688	-13	*	*
8XFund	7207.8500	-13	*	*
9XFund	8108.8313	-13	*	*
10XFund	9009.8125	-13	*	*



<sup>\*</sup> Indicates the spurious emission was less than -33 dBm or 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.

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Figure 6-30: Alternate PA (U516) Source Minimum Power Setting Transmitter Spurious Emissions