

# **Intentional Radiator Test Report**

**Test Standards:  
FCC Part 15 (Subpart C – Intentional Radiators)  
Industry Canada RSS-210**

**Prepared For:  
Socket Mobile, Inc.  
37400 Central Court  
Newark, CA 94560**

**Equipment Under Test:  
Compact Flash Wi-Fi Card**

**Model:  
GO WI-FI! P500**

**M/N:  
8510-00251**

**Prepared by:**



**44366 S. Grimmer Blvd.  
Fremont, CA 94538  
USA**

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## 1.0 CUSTOMER INFORMATION

<b>Test Laboratory:</b>	EMCE Engineering 44366 S. Grimmer Blvd. Fremont, CA 94538 USA  Tel: 510-490-4307 Fax: 510-490-3441 bob@universalcompliance.com
<b>FCC registration number</b>	0007-1981-20
<b>Customer:</b>	Socket Mobile, Inc. 37400 Central Court Newark, CA  Tel: 510-744-2700 Fax: 510-744-2701
<b>Contact Person:</b>	Thomas Moyland
<b>Receipt of EUT:</b>	06/20/07
<b>Test plan reference:</b>	FCC Part 2, 15 (15.247) / IC RSS-210
<b>FCC ID:</b>	LUB-P500CF-1
<b>IC #:</b>	2529A-P500CF1
<b>Date of testing:</b>	06/20/07 – 11/12/07
<b>Date of Report:</b>	11/12/07

*The tests listed in this report have been completed to demonstrate compliance to the CFR 47 Section 15.247, as well as Industry Canada Radio Standard RSS-210, Issue 6.*

Contents approved:


Name: Bob Cole Title: President

## 2.0 EUT AND ACCESSORY INFORMATION

### EUT description

The EUT is a Socket Communications, Inc. **Compact Flash WiFi Card, M/N: GO WI-FI! P500.**

### EUT and accessories

The table below lists all EUTs and accessories used in the tests. Later in this report, only numbers in the last column are used to refer to the devices in each test.

### Software

The computers were equipped with test software provided by the customer. The software was used to control the EUT in the tests.

	Name	Type	S/N	Number
<b>EUT</b>	<b>CF Wi-Fi Card</b>	<b>GO WI-FI! P500</b>	N/A	E0001
<b>Accessories</b>	Laptop Computer	Compaq Presario M/N: 1694	3882A744	S0001
<b>Software</b>	MediaTek	WLAN RF Test	N/A	N/A

### EUT Information

Product Specification	Description
Model Name	GO WI-FI! P500
Type of Modulation	DSS
Number of Channels	11
Operating Frequency Range	2412 – 2462 MHz
Type of Equipment	Portable
Extreme Operating Temperature Range	-20 C – 55 C
Extreme Operating Voltage Range	108 – 132 VAC
Type of Antenna	Integral
Antenna Gain (dBi)	-0.0
Transmitter Method of Frequency Generation	Synthesized
Transmitter Aggregate Data Rate	>250kbps
Transmitter Duty Type	Continuous
Transmitter Duty Cycle	
Continuous Operation for Testing Purposes?	Yes

### 3.0 SUMMARY OF TEST RESULTS

	Section in CFR 47	Results
15.245 (b)(1)	Peak output power (Radiated Emissions)	PASSED
R&O 97-114	Power Density	PASSED
15.247 (a)(2)	6 dB Bandwidth	PASSED
15.247, c	Band-edge compliance of RF emissions	PASSED
15.247, (4)(c)	Restricted Band	PASSED
15.247,c	Spurious radiated emissions	PASSED

PASS            The EUT passed that particular test.  
FAIL            The EUT failed that particular test.

## **4.0 STANDARDS AND MEASUREMENT METHODS**

The tests were performed in guidance of CFR 47 section 15.247, FCC Public Notice DA 00-705 (March 30, 2000), FCC Report & Order 97-114 (April 10, 1997), and ANSI C63.4 (2003). Deviations, modifications or clarifications (if any) to above mentioned documents are written in each section under “Test method”. For the test equipment, see device list in the end of this test.

### **4.1 Selection of operation mode for tests**

Before tests, several operation modes, and modulation patterns were tried. The worst case was selected for each test and those results reported.

## 5.0 TEST SETUPS

To fulfill all requirements for the testing, total of two different test setups were used. One EUT was used, unmodified for radiated tests.

SMA connector added in place of internal antenna for Antenna Conducted measurements.

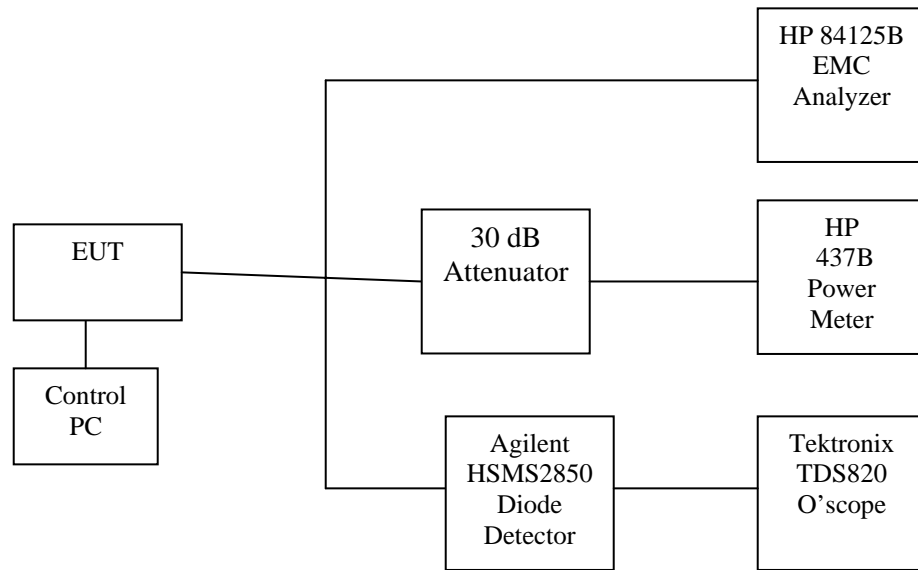
### Setup A (Antenna Conducted measurements)

#### Operational description

#### ANTENNA CONDUCTED EMISSIONS MEASUREMENTS

The EUT was connected to the Laptop Computer through the serial port (COM1), the antenna bypassed and the SMA Cable connected to the Spectrum Analyzer. This setup was used for the **PEAK POWER OUTPUT, POWER DENSITY, 6 dB BW, BAND-EDGE COMPLIANCE, and RESTRICTED BAND** measurements.

#### *Block Diagram*



The solid lines are coaxial cables and the dashed lines are either EUT insertion to the test board or control cables between test setup devices. The measurement results were adjusted with the attenuation of the coaxial cable.

## Setup B (Radiated measurements)

### Operational description

#### RADIATED EMISSIONS MEASUREMENTS

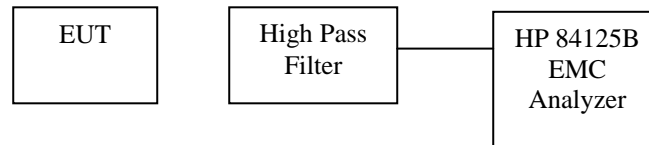
This setup was used in radiated emissions measurements.

The EUT was tested in 3 orthogonal orientations.

Worst case data is presented.

THIS SETUP USED FOR *RADIATED SPURIOUS EMISSIONS*

### *Block diagram*



Note: The high –pass filter is used for the Radiated Spurious emissions above 2.4835 GHz. A pass-thru connector is used for Radiated Spurious emissions measurements from 30 MHz – 2.4 GHz.

The solid lines are coaxial cables and the dashed lines are either EUT insertion to the test board or control cables between test setup devices.



## 6.0 TEST RESULTS

The measurement results were adjusted for the attenuation of the cable between the EUT connector and receiver.

### PEAK OUTPUT POWER

Peak Output Power [CFR 47, 15.247(b)(1) and RSS-210 6.2.2(o)]

<b>EUT</b>	<b>GO WI-FI! P500</b>
<b>Test setup</b>	A (conducted)
<b>Temp, Humidity, Air Pressure</b>	68° F, 30.28
<b>Date of Measurement</b>	6/25/07
<b>Measured by</b>	Bob Cole
<b>Result</b>	PASSED

### Modes Tested (Worst Case Data Presented)

Modulation	Data Rate (MB/Sec)
OFDM	54
OFDM	6
CCK	11
CCK	5.5
CCK	1.0

### Limits and results

#### PEAK OUTPUT POWER

EUT Channel Info	Limit (dBm)	Test results (dBm)
2412 OFDM 6 MB/S	30.0	17.11
2437 OFDM 6 MB/S	30.0	16.33
2467 OFDM 6 MB/S	30.0	16.09

Note: Peak Output Power measured using the HP 437B Power Meter in Peak Mode per FCC Publication Number 558074, "New Guidance on Measurements for Digital Transmissions Systems in Section 15.247"

## POWER DENSITY

### Peak Output Power [R&O 97-114]

<b>EUT</b>	<b>GO WI-FI! P500</b>
<b>Test setup</b>	A (conducted)
<b>Temp, Humidity, Air Pressure</b>	70° F, 30.79
<b>Date of Measurement</b>	10/11/07
<b>Measured by</b>	Bob Cole
<b>Result</b>	PASSED

### Modes Tested (Worst Case Data Presented)

Modulation	Data Rate (MB/Sec)
OFDM	54
OFDM	48
OFDM	36
OFDM	24
OFDM	12
OFDM	9
OFDM	6
CCK	11
CCK	5.5
CCK	1.0

### Limits and results

#### POWER DENSITY

EUT Channel	Limit (dBm)
2412 OFDM 6 MB/S	8.0
2467 OFDM 6 MB/S	8.0

**Worst Case Data presented for each channel.**

Note: Power spectral Density measured using “PSD Option 1” per FCC Publication Number 558074, “New Guidance on Measurements for Digital Transmissions Systems in Section 15.247”

## PSD – Channel 1 / 2412 MHz / CCK Mod / 1 MBS Data Rate

Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 • 510-490-4307

Customer: **SocketMobile, Inc.**  
 Specification: **DSS PSD Channel 1 CCK**  
 Work Order #: **2721** Date: 10/11/2007  
 Test Type: **Conducted Emissions** Time: 11:41:34 AM  
 Equipment: **CF WLAN** Sequence#: 2  
 Manufacturer: **SocketMobile** Tested By: **Bob Cole**  
 Model: **Go WiFi! P500** N/A  
 S/N:

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
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**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
CF WLAN*	SocketMobile	Go WiFi! P500	

**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

RBW = 3 kHz VBW = 10 kHz Sweep Time = 500 sec CCK Modulation Data Rate 1 MBS
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**Transducer Legend:**

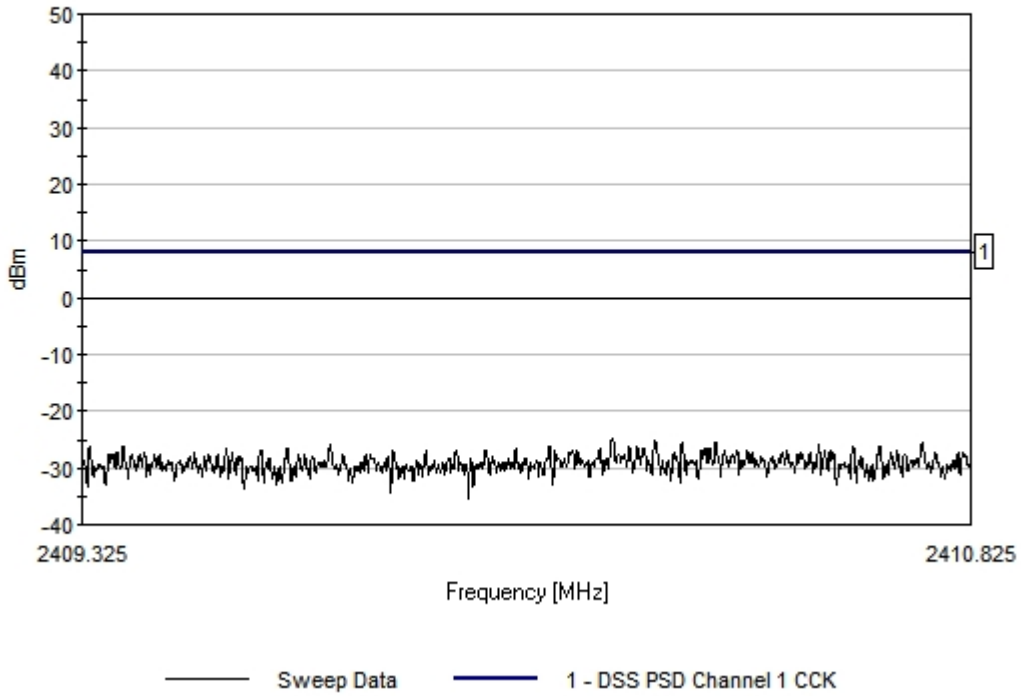
T1=dBuV - dBm conversion
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Ext Attn: 0 dB

**Measurement Data:** Reading listed by margin. Test Lead: Antenna

#	Freq MHz	Rdng dBuV	T1 dB	dB	dB	dB	Dist Table	Corr dBm	Spec dBm	Margin dB	Polar Ant
1	2410.220M	82.2	-107.0				+0.0	-24.8	8.0	-32.8	Anten
2	2410.337M	81.4	-107.0				+0.0	-25.6	8.0	-33.6	Anten
3	2410.395M	81.4	-107.0				+0.0	-25.6	8.0	-33.6	Anten
4	2410.742M	81.4	-107.0				+0.0	-25.6	8.0	-33.6	Anten
5	2409.742M	81.1	-107.0				+0.0	-25.9	8.0	-33.9	Anten
6	2410.568M	81.0	-107.0				+0.0	-26.0	8.0	-34.0	Anten
7	2410.671M	80.9	-107.0				+0.0	-26.1	8.0	-34.1	Anten
8	2409.338M	80.8	-107.0				+0.0	-26.2	8.0	-34.2	Anten
9	2410.114M	80.7	-107.0				+0.0	-26.3	8.0	-34.3	Anten
10	2410.627M	80.7	-107.0				+0.0	-26.3	8.0	-34.3	Anten

EMCE Engineering Date: 10/11/2007 Time: 11:41:34 AM SocketMobile, Inc. WO#: 2721  
DSS PSD Channel 1 CCK Test Lead: Antenna N/A Sequence#: 2



## PSD – Channel 1 / 2412 MHz / OFDM Mod / 6 MBS Data Rate

Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 • 510-490-4307

Customer: **SocketMobile, Inc.**  
 Specification: **DSS PSD Channel One OFDM**  
 Work Order #: **2721**  
 Test Type: **Conducted Emissions**  
 Equipment: **CF WLAN**  
 Manufacturer: **SocketMobile**  
 Model: **Go WiFi! P500**  
 S/N:

Date: 10/11/2007  
 Time: 11:20:57 AM  
 Sequence#: 1  
 Tested By: Bob Cole  
 N/A

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
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**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
CF WLAN*	SocketMobile	Go WiFi! P500	

**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

RBW = 3 kHz VBW = 10 kHz Sweep Time = 500 sec OFDM Modulation Data Rate = 6 MBS
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**Transducer Legend:**

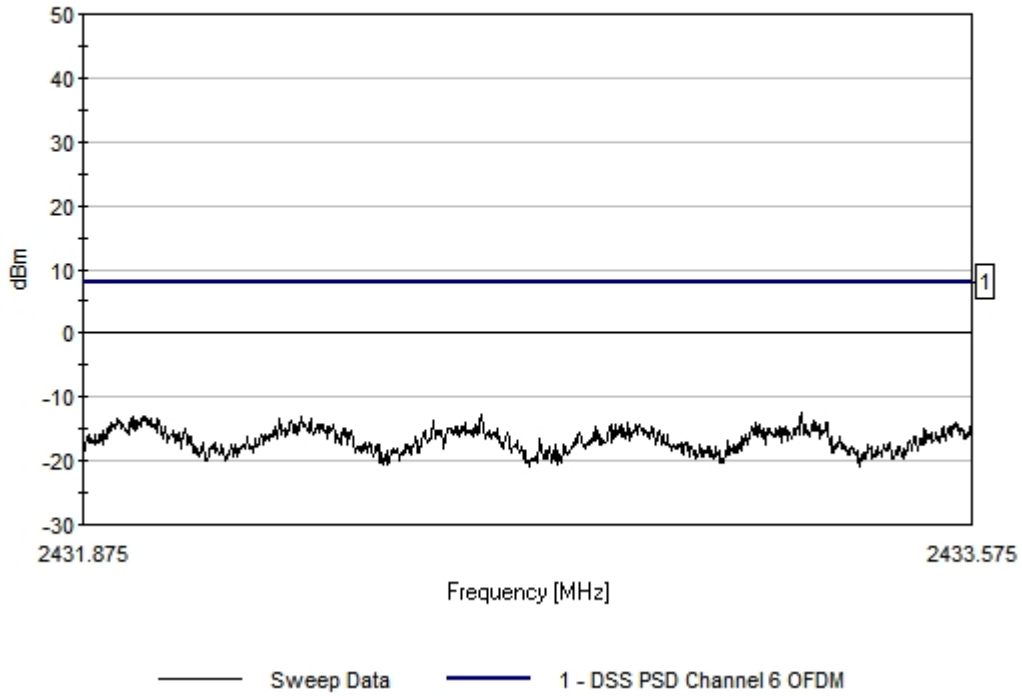
T1=dBuV - dBm conversion
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Ext Attn: 0 dB

**Measurement Data:**      Reading listed by margin.      Test Lead: Antenna

#	Freq MHz	Rdng dBuV	T1 dB	dB	dB	dB	Dist Table	Corr dBm	Spec dBm	Margin dB	Polar Ant
1	2418.243M	95.4	-107.0				+0.0	-11.6	8.0	-19.6	Anten
2	2417.884M	95.1	-107.0				+0.0	-11.9	8.0	-19.9	Anten
3	2418.275M	94.7	-107.0				+0.0	-12.3	8.0	-20.3	Anten
4	2418.193M	94.6	-107.0				+0.0	-12.4	8.0	-20.4	Anten
5	2417.645M	94.5	-107.0				+0.0	-12.5	8.0	-20.5	Anten
6	2417.271M	94.3	-107.0				+0.0	-12.7	8.0	-20.7	Anten
7	2417.607M	94.3	-107.0				+0.0	-12.7	8.0	-20.7	Anten
8	2418.553M	93.5	-107.0				+0.0	-13.5	8.0	-21.5	Anten
9	2418.582M	93.4	-107.0				+0.0	-13.6	8.0	-21.6	Anten
10	2418.576M	93.2	-107.0				+0.0	-13.8	8.0	-21.8	Anten

EMCE Engineering Date: 10/11/2007 Time: 12:15:21 PM SocketMobile, Inc. WO#: 2721  
DSS PSD Channel 6 OFDM Test Lead: Antenna N/A Sequence#: 3



**PSD – Channel 6 / 2437 MHz / CCK Mod / 1 MBS Data Rate**

Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 • 510-490-4307

Customer: **SocketMobile, Inc.**  
 Specification: **DSS PSD Channel 6 CCK**  
 Work Order #: **2721**  
 Test Type: **Conducted Emissions**  
 Equipment: **CF WLAN**  
 Manufacturer: **SocketMobile**  
 Model: **Go WiFi! P500**  
 S/N:

Date: 10/11/2007  
 Time: 12:00:50 PM  
 Sequence#: 2  
 Tested By: Bob Cole  
 N/A

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
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**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
CF WLAN*	SocketMobile	Go WiFi! P500	

**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

RBW = 3 kHz VBW = 10 kHz Sweep Time = 500 sec Channel 6 / 2437 MHz CCK Modulation Data Rate = 1 MBS
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**Transducer Legend:**

T1=dBuV - dBm conversion
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Ext Attn: 0 dB

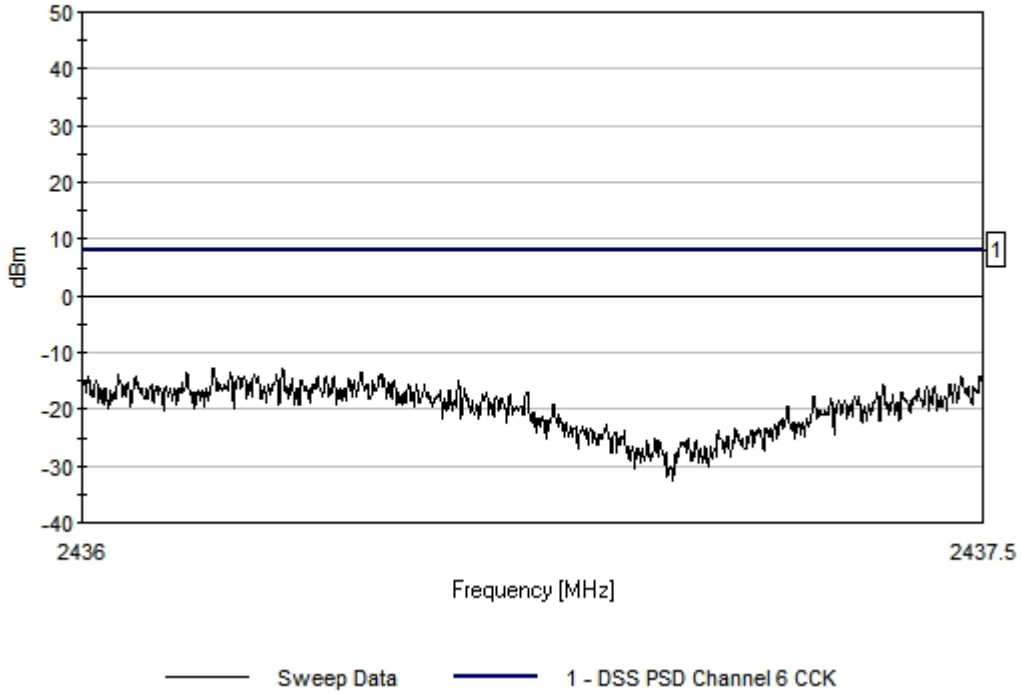
**Measurement Data:** Reading listed by margin.

Test Lead: Antenna

#	Freq MHz	Rdng dBuV	T1 dB	dB	dB	dB	Dist Table	Corr dBm	Spec dBm	Margin dB	Polar Ant
1	2436.218M	94.3	-107.0				+0.0	-12.7	8.0	-20.7	Anten
2	2436.334M	94.1	-107.0				+0.0	-12.9	8.0	-20.9	Anten
3	2436.465M	93.5	-107.0				+0.0	-13.5	8.0	-21.5	Anten
4	2436.174M	93.3	-107.0				+0.0	-13.7	8.0	-21.7	Anten
5	2436.287M	93.1	-107.0				+0.0	-13.9	8.0	-21.9	Anten
6	2436.323M	93.1	-107.0				+0.0	-13.9	8.0	-21.9	Anten
7	2436.060M	93.0	-107.0				+0.0	-14.0	8.0	-22.0	Anten
8	2436.496M	93.0	-107.0				+0.0	-14.0	8.0	-22.0	Anten
9	2436.500M	93.0	-107.0				+0.0	-14.0	8.0	-22.0	Anten

10	2437.495M	92.8	-107.0	+0.0	-14.2	8.0	-22.2	Anten
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EMCE Engineering Date: 10/11/2007 Time: 12:00:50 PM SocketMobile, Inc. WO#: 2721  
DSS PSD Channel 6 CCK Test Lead: Antenna N/A Sequence#: 2





**PSD – Channel 6 / 2437 MHz / OFDM Mod / 6 MBS Data Rate**

Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 • 510-490-4307

Customer: **SocketMobile, Inc.**  
 Specification: **DSS PSD Channel 6 OFDM**  
 Work Order #: **2721**  
 Test Type: **Conducted Emissions**  
 Equipment: **CF WLAN**  
 Manufacturer: **SocketMobile**  
 Model: **Go WiFi! P500**  
 S/N:

Date: 10/11/2007  
 Time: 12:15:21 PM  
 Sequence#: 3  
 Tested By: Bob Cole  
 N/A

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
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**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
CF WLAN*	SocketMobile	Go WiFi! P500	

**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

RBW = 3 kHz VBW = 10 kHz Sweep Time = 500 sec Channel 6 / 2437 MHz Data Rate = 6 MBS
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**Transducer Legend:**

T1=dBuV - dBm conversion
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Ext Attn: 0 dB

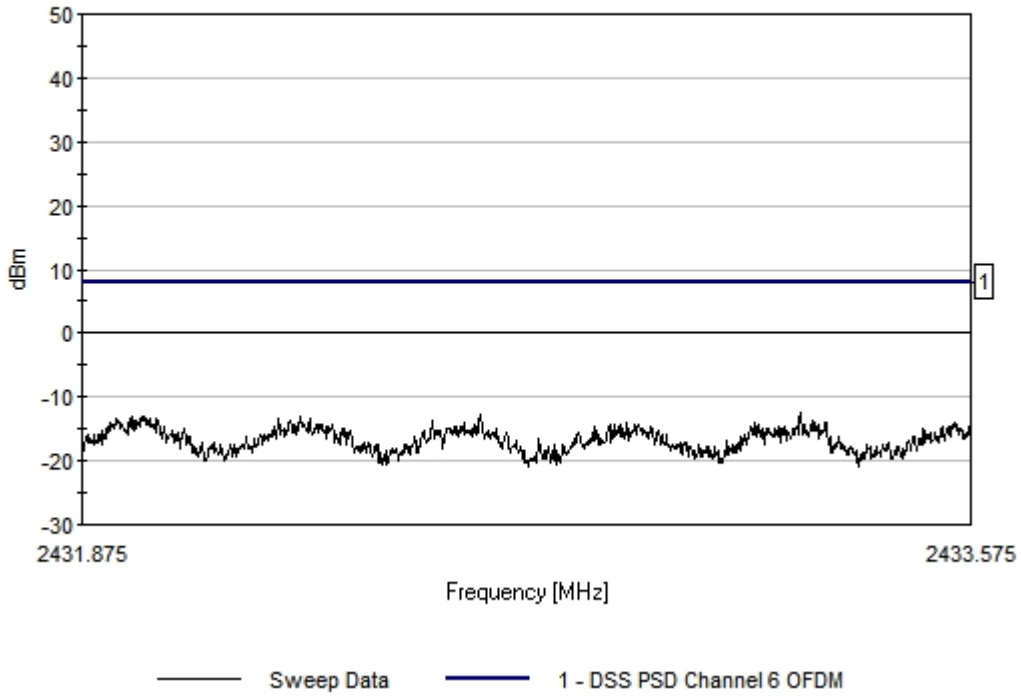
**Measurement Data:**

Reading listed by margin.

Test Lead: Antenna

#	Freq MHz	Rdng dBμV	T1 dB	dB	dB	dB	Dist Table	Corr dBm	Spec dBm	Margin dB	Polar Anten
1	2433.248M	94.5	-107.0				+0.0	-12.5	8.0	-20.5	Anten
2	2432.636M	94.1	-107.0				+0.0	-12.9	8.0	-20.9	Anten
3	2432.292M	94.0	-107.0				+0.0	-13.0	8.0	-21.0	Anten
4	2431.971M	93.9	-107.0				+0.0	-13.1	8.0	-21.1	Anten
5	2431.989M	93.9	-107.0				+0.0	-13.1	8.0	-21.1	Anten
6	2432.250M	93.7	-107.0				+0.0	-13.3	8.0	-21.3	Anten
7	2431.942M	93.6	-107.0				+0.0	-13.4	8.0	-21.4	Anten
8	2432.310M	93.6	-107.0				+0.0	-13.4	8.0	-21.4	Anten
9	2432.018M	93.5	-107.0				+0.0	-13.5	8.0	-21.5	Anten
10	2432.545M	93.2	-107.0				+0.0	-13.8	8.0	-21.8	Anten

EMCE Engineering Date: 10/11/2007 Time: 12:15:21 PM SocketMobile, Inc. WO#: 2721  
DSS PSD Channel 6 OFDM Test Lead: Antenna N/A Sequence#: 3



## PSD – Channel 11 / 2462 MHz / CCK Mod / 1 MBS Data Rate

Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 • 510-490-4307

Customer: **SocketMobile, Inc.**

Specification: **DSS PSD Channel 11 CCK**

Work Order #: **2721**

Date: 10/11/2007

Test Type: **Conducted Emissions**

Time: 12:53:43 PM

Equipment: **CF WLAN**

Sequence#: 5

Manufacturer: SocketMobile

Tested By: Bob Cole

Model: Go WiFi! P500

N/A

S/N:

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
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**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
CF WLAN*	SocketMobile	Go WiFi! P500	

**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

RBW = 3 kHz VBW = 10 kHz Sweep Time = 500 sec Channel 11 / 2462 MHz Data Rate = 1 MBS
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**Transducer Legend:**

T1=dBuV - dBm conversion
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Ext Attn: 0 dB

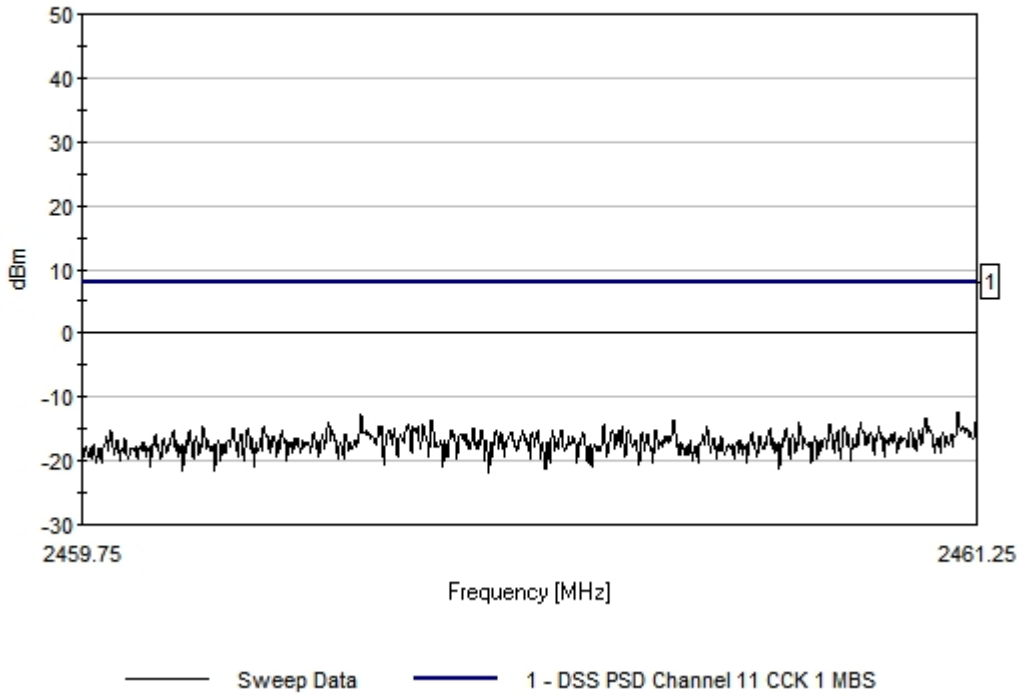
**Measurement Data:**

Reading listed by margin.

Test Lead: Antenna

#	Freq MHz	Rdng dBμV	T1 dB	dB	dB	dB	Dist Table	Corr dBm	Spec dBm	Margin dB	Polar Anten
1	2461.219M	94.7	-107.0				+0.0	-12.3	8.0	-20.3	Anten
2	2460.217M	94.1	-107.0				+0.0	-12.9	8.0	-20.9	Anten
3	2460.336M	93.4	-107.0				+0.0	-13.6	8.0	-21.6	Anten
4	2460.742M	93.3	-107.0				+0.0	-13.7	8.0	-21.7	Anten
5	2460.163M	93.0	-107.0				+0.0	-14.0	8.0	-22.0	Anten
6	2460.953M	92.9	-107.0				+0.0	-14.1	8.0	-22.1	Anten
7	2461.054M	92.9	-107.0				+0.0	-14.1	8.0	-22.1	Anten
8	2460.625M	92.8	-107.0				+0.0	-14.2	8.0	-22.2	Anten
9	2461.003M	92.8	-107.0				+0.0	-14.2	8.0	-22.2	Anten
10	2460.296M	92.7	-107.0				+0.0	-14.3	8.0	-22.3	Anten

EMCE Engineering Date: 10/11/2007 Time: 12:53:43 PM SocketMobile, Inc. WO#: 2721  
DSS PSD Channel 11 CCK 1 MBS Test Lead: Antenna N/A Sequence#: 5



Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 • 510-490-4307

Customer: **SocketMobile, Inc.**  
 Specification: **2466.875DSS PSD Channel 11 OFDM**  
 Work Order #: **2721**  
 Test Type: **Conducted Emissions**  
 Equipment: **CF WLAN**  
 Manufacturer: **SocketMobile**  
 Model: **Go WiFi! P500**  
 S/N:

Date: 10/11/2007  
 Time: 12:40:33 PM  
 Sequence#: 4  
 Tested By: Bob Cole  
 N/A

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
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**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
CF WLAN*	SocketMobile	Go WiFi! P500	

**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

RBW = 3 kHz  
 VBW = 10 kHz  
 Sweep Time = 500 sec  
 Channel 11 / 2462 MHz  
 Data Rate = 6 MBS

**Transducer Legend:**

T1=dBuV - dBm conversion

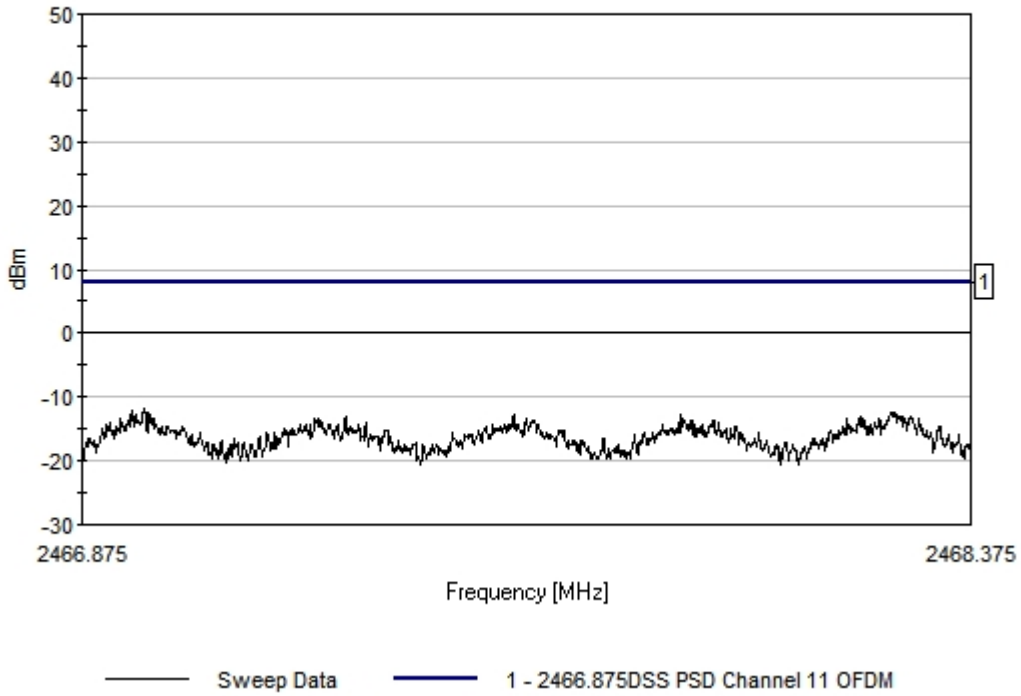
Ext Attn: 0 dB

**Measurement Data:** Reading listed by margin.

Test Lead: Antenna

#	Freq MHz	Rdng dBuV	T1 dB	dB	dB	dB	Dist Table	Corr dBm	Spec dBm	Margin dB	Polar Anten
1	2466.980M	95.3	-107.0				+0.0	-11.7	8.0	-19.7	Anten
2	2466.988M	94.7	-107.0				+0.0	-12.3	8.0	-20.3	Anten
3	2468.241M	94.7	-107.0				+0.0	-12.3	8.0	-20.3	Anten
4	2467.886M	94.3	-107.0				+0.0	-12.7	8.0	-20.7	Anten
5	2467.603M	94.1	-107.0				+0.0	-12.9	8.0	-20.9	Anten
6	2468.188M	94.0	-107.0				+0.0	-13.0	8.0	-21.0	Anten
7	2467.320M	93.8	-107.0				+0.0	-13.2	8.0	-21.2	Anten
8	2467.268M	93.7	-107.0				+0.0	-13.3	8.0	-21.3	Anten
9	2468.167M	93.7	-107.0				+0.0	-13.3	8.0	-21.3	Anten
10	2468.287M	93.6	-107.0				+0.0	-13.4	8.0	-21.4	Anten

EMCE Engineering Date: 10/11/2007 Time: 12:40:33 PM SocketMobile, Inc. WO#: 2721  
2466.875DSS PSD Channel 11 OFDM Test Lead: Antenna N/A Sequence#: 4



## 6 dB Bandwidth

**6 dB Bandwidth [CFR 47 15.247 (a)(1)(ii) and RSS-210 6.2.2(o)]**

<b>EUT</b>	<b>GO WI-FI! P500</b>
<b>Test setup</b>	A (conducted)
<b>Temp, Humidity, Air Pressure</b>	68° F, 30.47
<b>Date of Measurement</b>	6/25/07
<b>Measured by</b>	Bob Cole
<b>Result</b>	PASSED

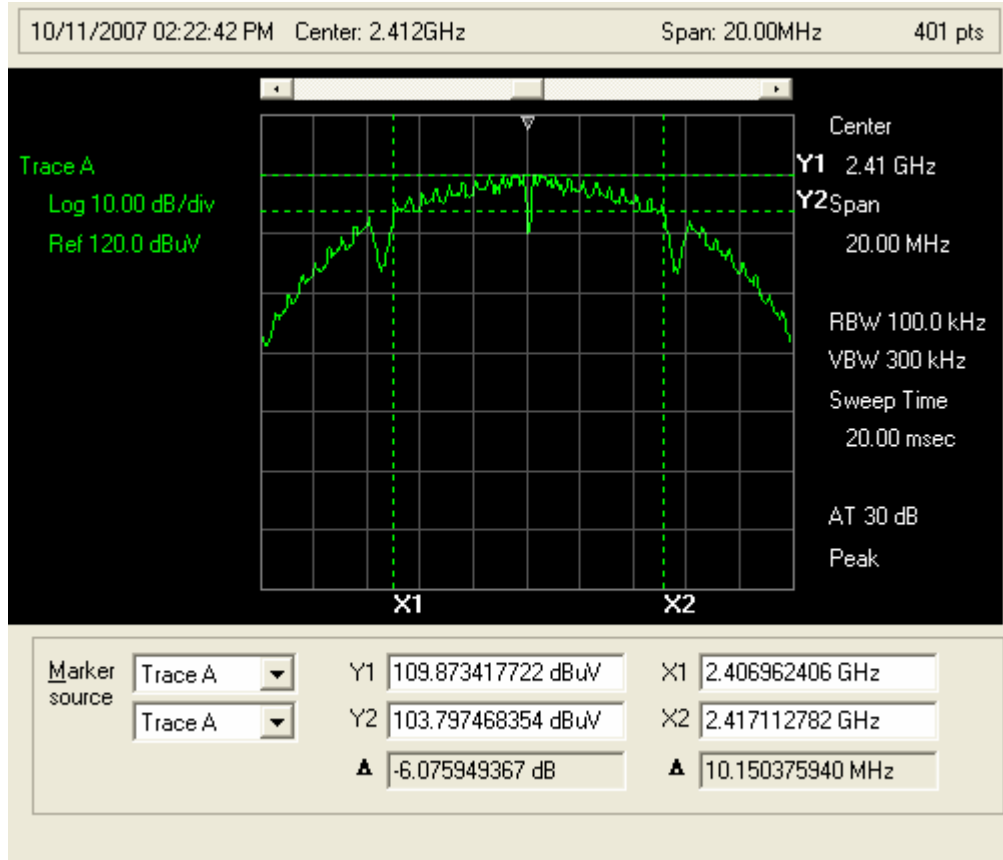
### Limits and Results

#### 6 dB BANDWIDTH

EUT Channel	Limit (MHz)	Test results (MHz)
2412 OFDM 6 MB/S	>/= .500	PASS
2437 OFDM 6 MB/S	>/= .500	PASS
2467 OFDM 6 MB/S	>/= .500	PASS

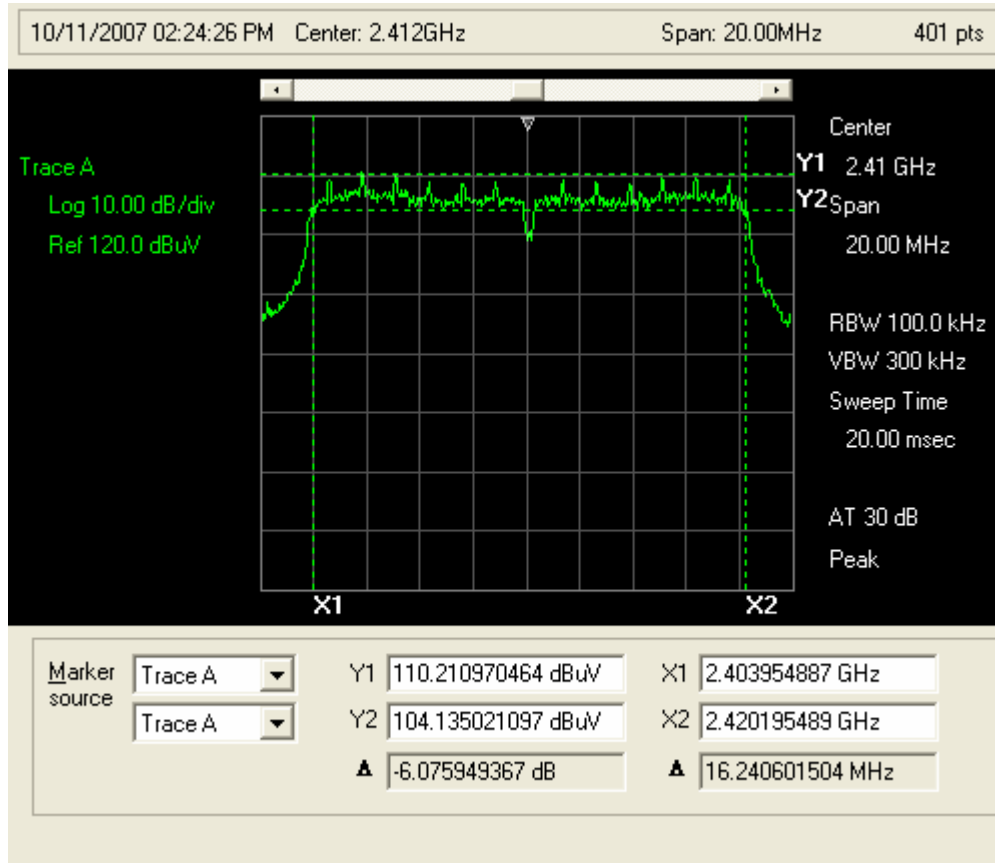
### Screen Shots

#### 6 dB BW Channel 1, 2412 MHz / 1 MBS CCK Modulation

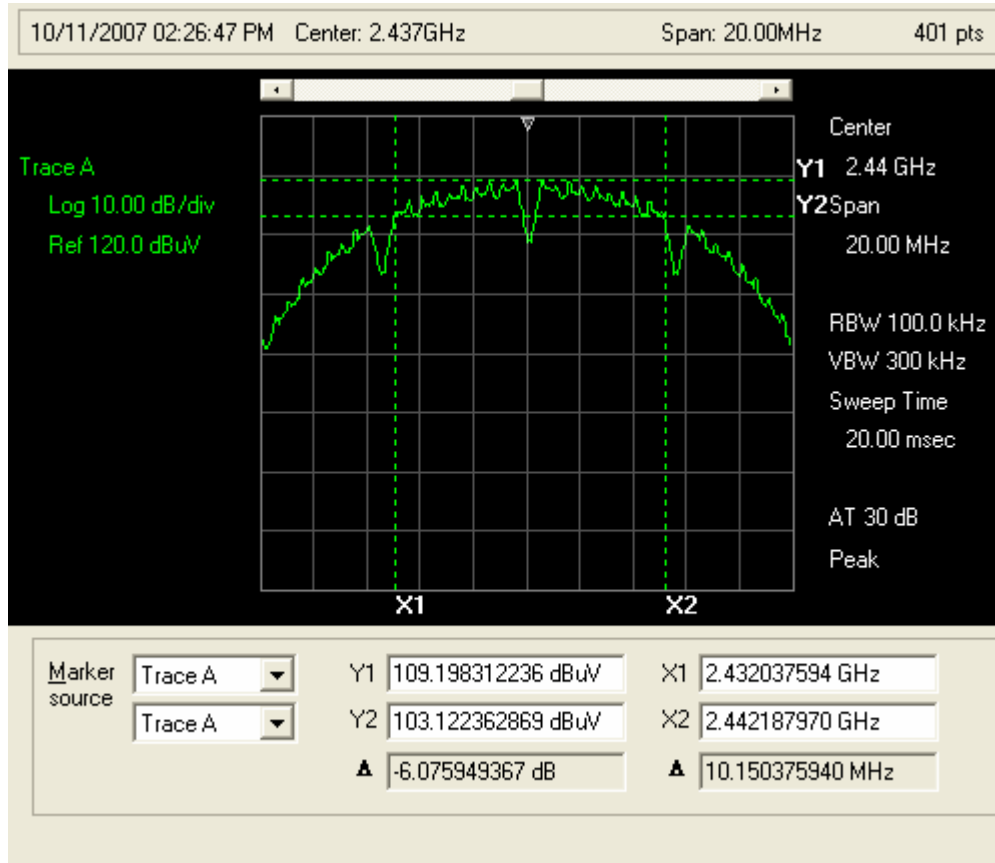




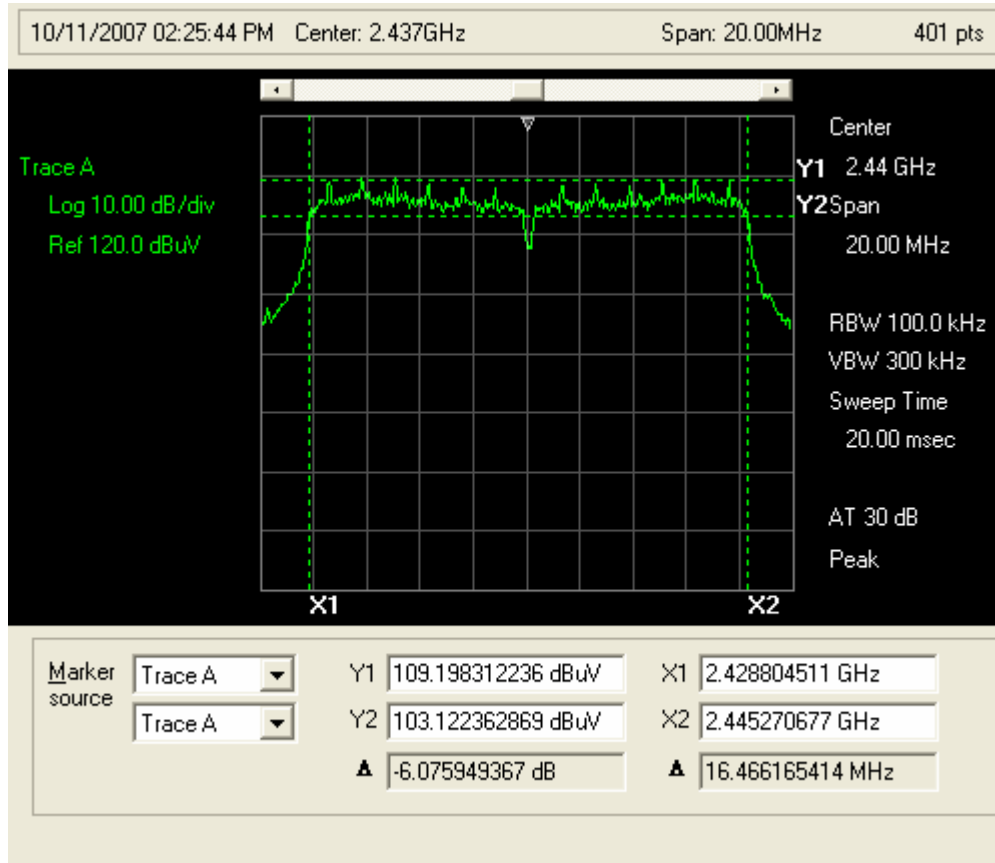
### 6 dB BW 2437 MHz / 6 Mbit OFDM Modulation



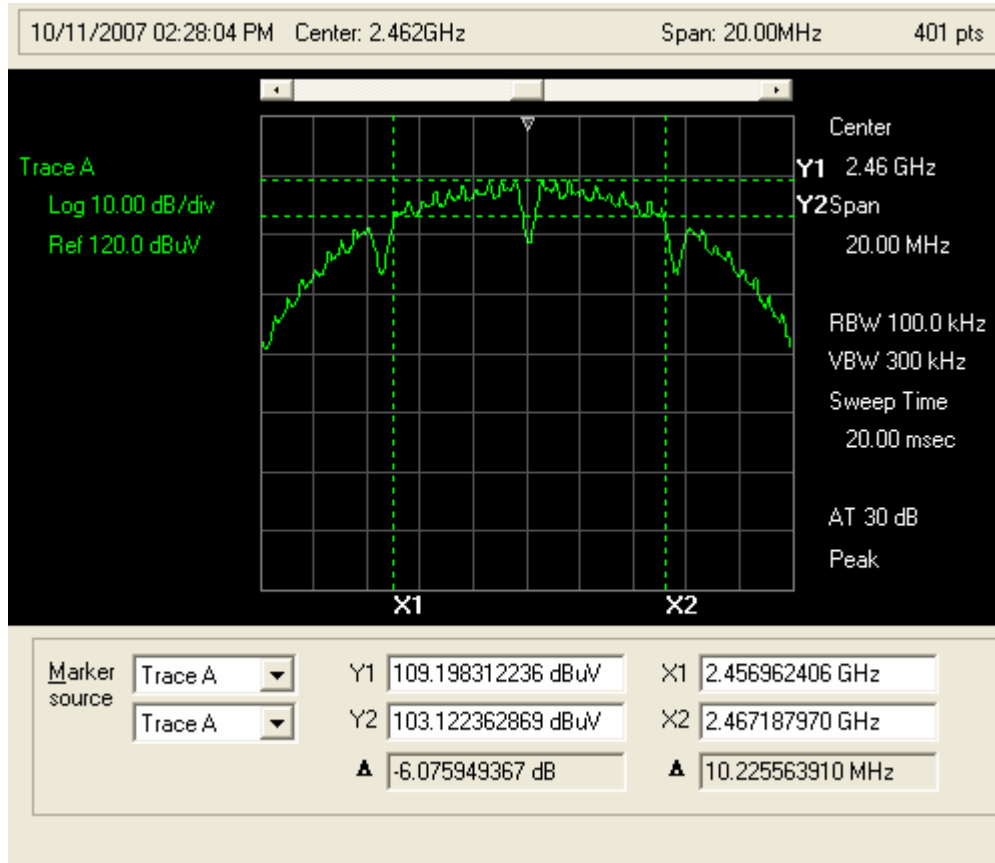
### 6 dB BW Channel 6, 2437 MHz / 1 MBS / CCK Modulation



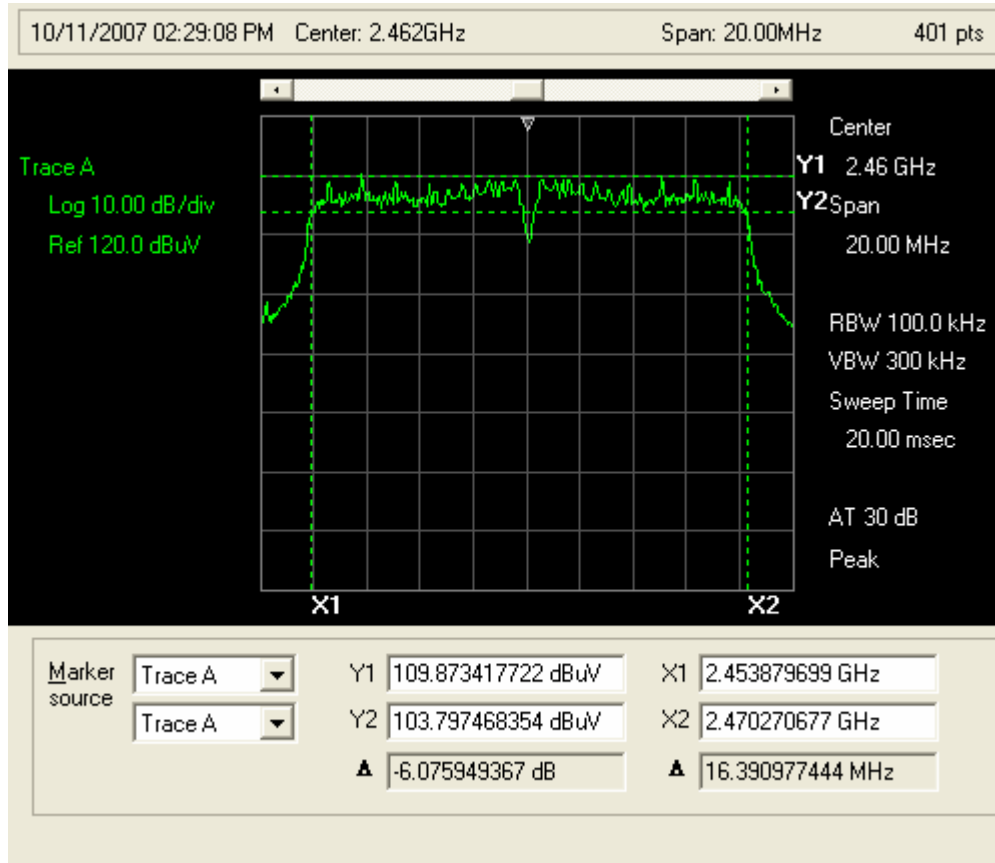
### 6 dB BW Channel 6, 2437 MHz / 6 MBS / OFDM Modulation



### 6 dB BW Channel 11, 2462 MHz / 1 MBS / CCK Modulation



### 6dB BW Channel 11, 2462 MHz / 6 MBS / OFDM Modulation



## BANEDGE MEASUREMENTS

### FCC ID: LUB-P500CF-1 Bandedge Measurement [Channel 1 / 2412 MHz CCK / 1 MBS - AVERAGE]

#### Channel 1 Average Power [Radiated]

Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 • 510-490-4307

Customer: **SocketMobile, Inc.**  
 Specification: **FCC 2412 MHz AVE**  
 Work Order #: **2725**  
 Test Type: **Radiated Scan**  
 Equipment:  
 Manufacturer:  
 Model:  
 S/N:

Date: 11/24/2007  
 Time: 4:21:57 PM  
 Sequence#: 12  
 Tested By: Bob Cole

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
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**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
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**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

2412 MHz CCK 1 MBS AVE 1 MHz RBW 10 Hz VBW 1 Meter
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**Transducer Legend:**

T1=A.H. SAS-200/571 Horn 1 meter	T2=84125 RF Amps
T3=cable1 2.4 GHz test	

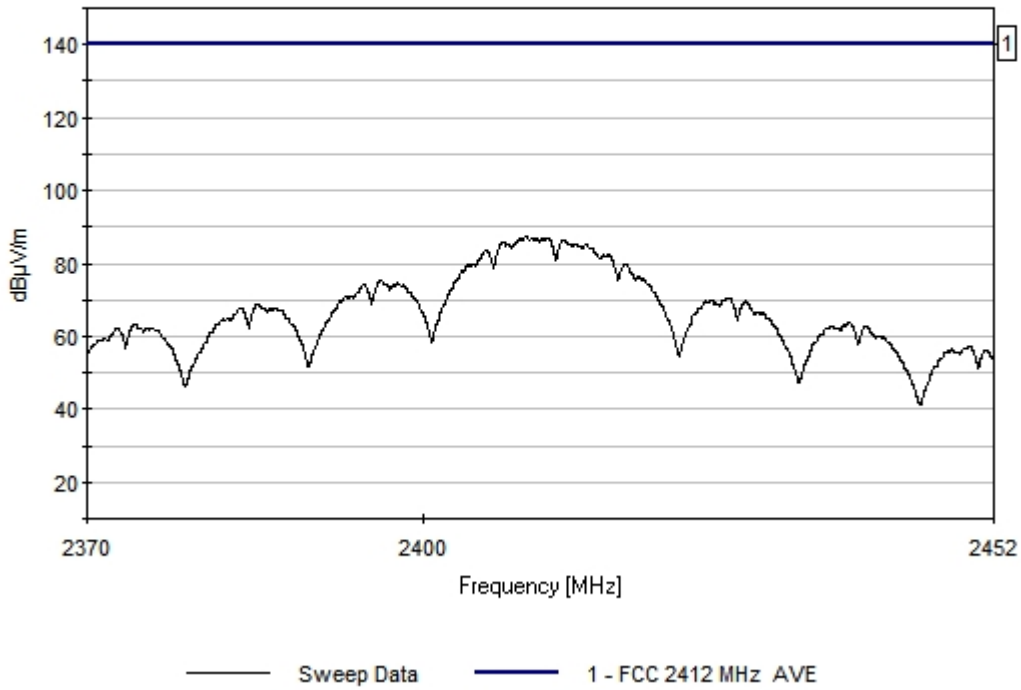
Ext Attn: 0 dB

**Measurement Data:** Reading listed by margin. Test Distance: 1 Meter

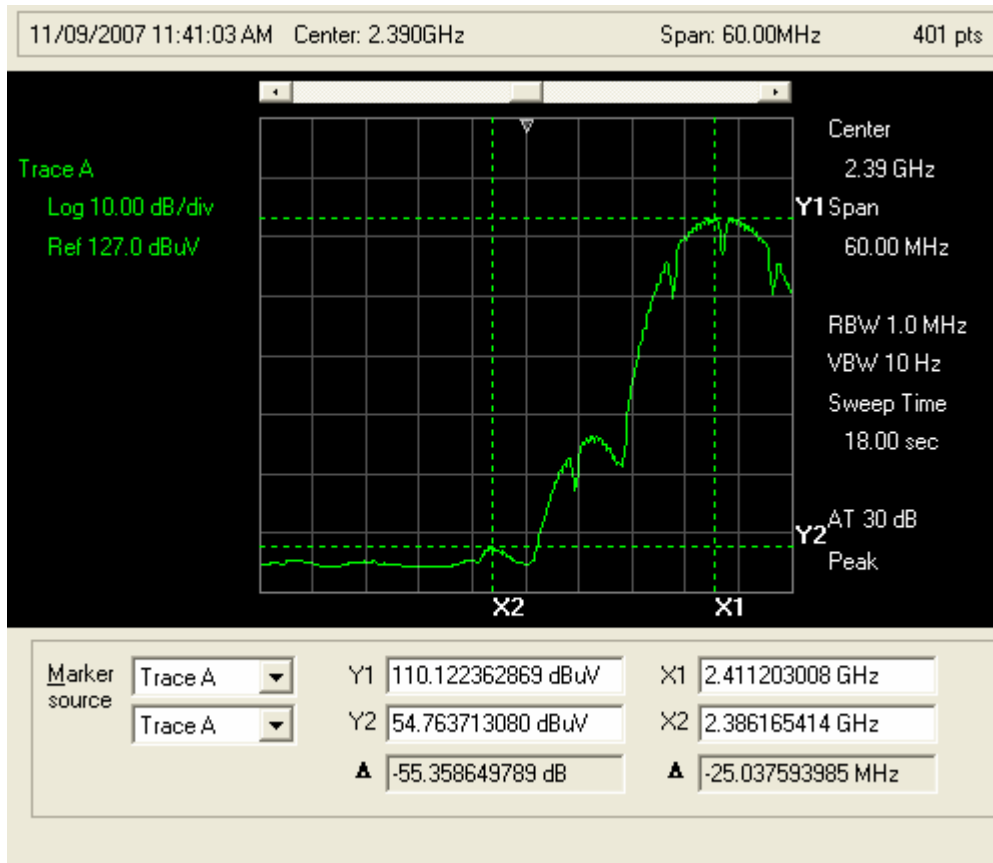
#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	Dist dB	Corr dB	Spec dBµV/m	Margin dB	Polar Ant
1	2409.291M	115.0	+29.2	+54.9	+8.0	-10.0	<b>87.3</b>			Vert
2	2412.708M	114.1	+29.2	+54.9	+8.0	-10.0	86.4			Vert
3	2405.656M	111.1	+29.2	+54.9	+8.0	-10.0	83.4			Vert
4	2418.283M	107.4	+29.2	+54.9	+8.0	-10.0	79.7			Vert
5	2396.236M	103.1	+29.1	+54.9	+8.0	-10.0	75.3			Vert
6	2397.785M	102.3	+29.2	+54.9	+8.0	-10.0	74.6			Vert
7	2394.614M	101.8	+29.1	+54.9	+8.0	-10.0	74.0			Vert

8	2427.639M	98.2	+29.2	+54.9	+8.1	-10.0	70.6	Vert
9	2429.242M	97.2	+29.2	+54.9	+8.1	-10.0	69.6	Vert
10	2385.181M	96.6	+29.1	+54.9	+8.0	-10.0	68.8	Vert

EMCE Engineering Date: 11/24/2007 Time: 4:21:57 PM SocketMobile, Inc. WO#: 2725  
FCC 2412 MHz AVE Test Distance: 1 Meter Sequence#: 12



**Bandedge Measurement [Average]**



Bandedge Calculation:

Radiated Amplitude – Distance Factor (1 Meter) – Conducted Delta = Bandedge Amplitude

$$87.3 - 55.36 = 31.94 \text{ dBuV}$$

$$31.94 < 54 \text{ dB Limit}$$

**PASS**



**FCC ID: LUB-P500CF-1**  
**Bandedge Measurement**  
**[Channel 1 / 2412 MHz CCK / 1 MBS - PEAK]**

**Channel 1 Peak Power [Radiated]**

Test Location: EMCE Engineering • 44366 S. Grimmer Blvd • Fremont, CA 94538 • 510-490-4307

Customer: **SocketMobile, Inc.**  
Specification: **FCC 2412 MHz PK**  
Work Order #: **2725**  
Test Type: **Radiated Scan**  
Equipment:  
Manufacturer:  
Model:  
S/N:

Date: 11/24/2007  
Time: 4:23:37 PM  
Sequence#: 13  
Tested By: Bob Cole

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
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**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
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**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

2412 MHz CCK 1 MBS PK 1 MHz RBW 1 MHz VBW 1 Meter
---

**Transducer Legend:**

T1=A.H. SAS-200/571 Horn 1 meter	T2=84125 RF Amps
T3=cable1 2.4 GHz test	

Ext Attn: 0 dB

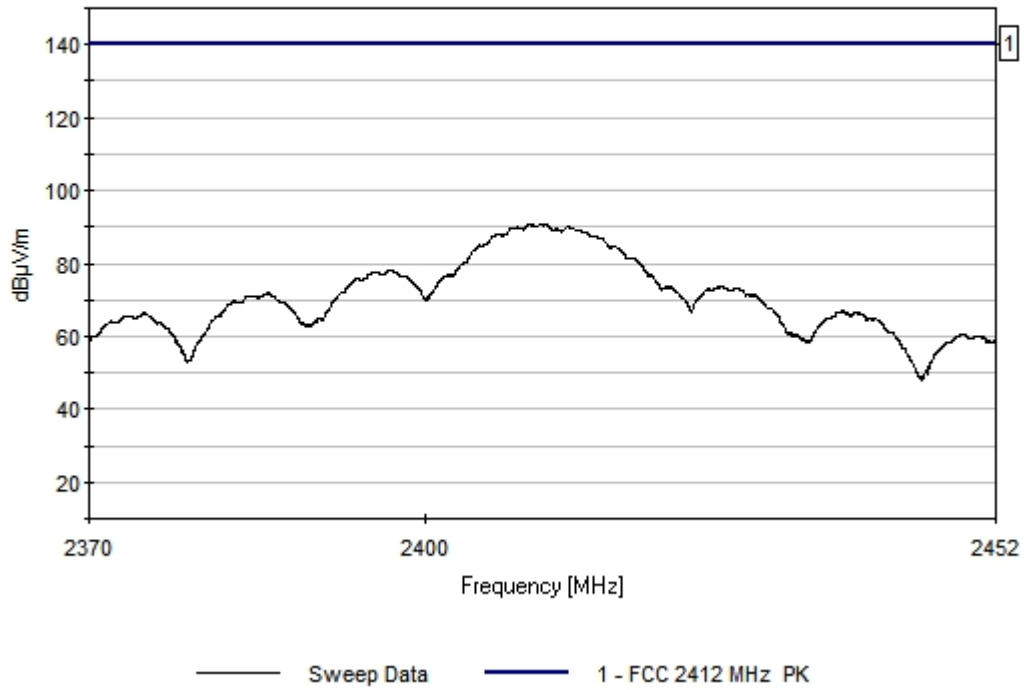
**Measurement Data:**

Reading listed by margin.

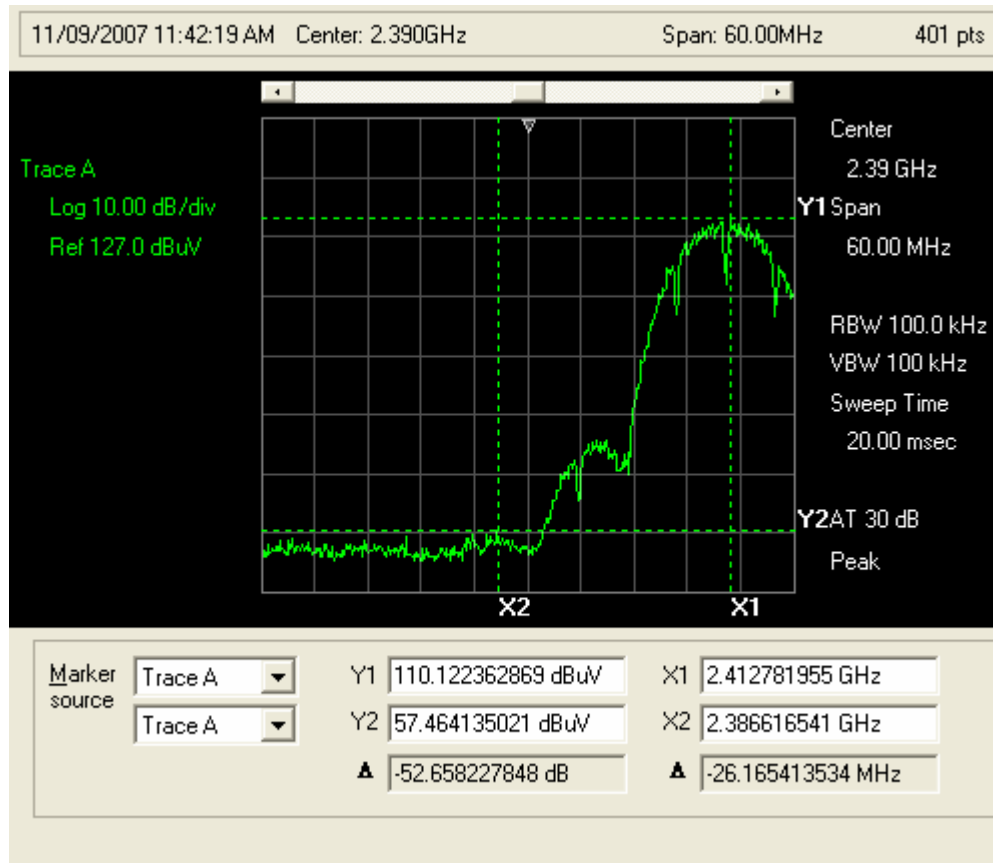
Test Distance: 1 Meter

#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	T3 dB	Dist dB	Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	2410.494M	118.4	+29.2	+54.9	+8.0	-10.0		<b>90.7</b>			Vert
2	2396.912M	106.1	+29.1	+54.9	+8.0	-10.0		78.3			Vert
3	2397.020M	105.9	+29.1	+54.9	+8.0	-10.0		78.1			Vert
4	2426.838M	101.3	+29.2	+54.9	+8.1	-10.0		73.7			Vert
5	2385.830M	99.6	+29.1	+54.9	+8.0	-10.0		71.8			Vert
6	2437.921M	94.6	+29.2	+54.9	+8.1	-10.0		67.0			Vert
7	2374.855M	94.2	+29.1	+54.9	+8.0	-10.0		66.4			Vert
8	2448.894M	88.3	+29.2	+55.0	+8.1	-10.0		60.6			Vert

EMCE Engineering Date: 11/24/2007 Time: 4:23:37 PM SocketMobile, Inc. WO#: 2725  
FCC 2412 MHz PK Test Distance: 1 Meter Sequence#: 13



### Bandedge Measurement [Peak]



Bandedge Calculation:

Radiated Amplitude – Conducted Delta = Bandedge Amplitude

$$90.7 - 52.85 = 37.85 \text{ dBuV}$$

$$37.85 < 74 \text{ dB Limit}$$

**PASS**

**FCC ID: LUB-P500CF-1**  
**Bandedge Measurement**  
**[Channel 1 / 2412 MHz OFDM / 6 MBS - AVERAGE]**

**Channel 1 Average Power [Radiated]**

Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 • 510-490-4307

Customer: **SocketMobile, Inc.**  
Specification: **FCC 2412 MHz AVE**  
Work Order #: **2725**  
Test Type: **Radiated Scan**  
Equipment:  
Manufacturer:  
Model:  
S/N:

Date: 11/23/2007  
Time: 12:35:10 PM  
Sequence#: 9  
Tested By: Bob Cole

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
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**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
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**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

2412 MHz OFDM 6 MBS AVE 1 MHz RBW 10 Hz VBW 1 Meter
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**Transducer Legend:**

T1=A.H. SAS-200/571 Horn 1 meter	T2=84125 RF Amps
T3=cable1 2.4 GHz test	

Ext Attn: 0 dB

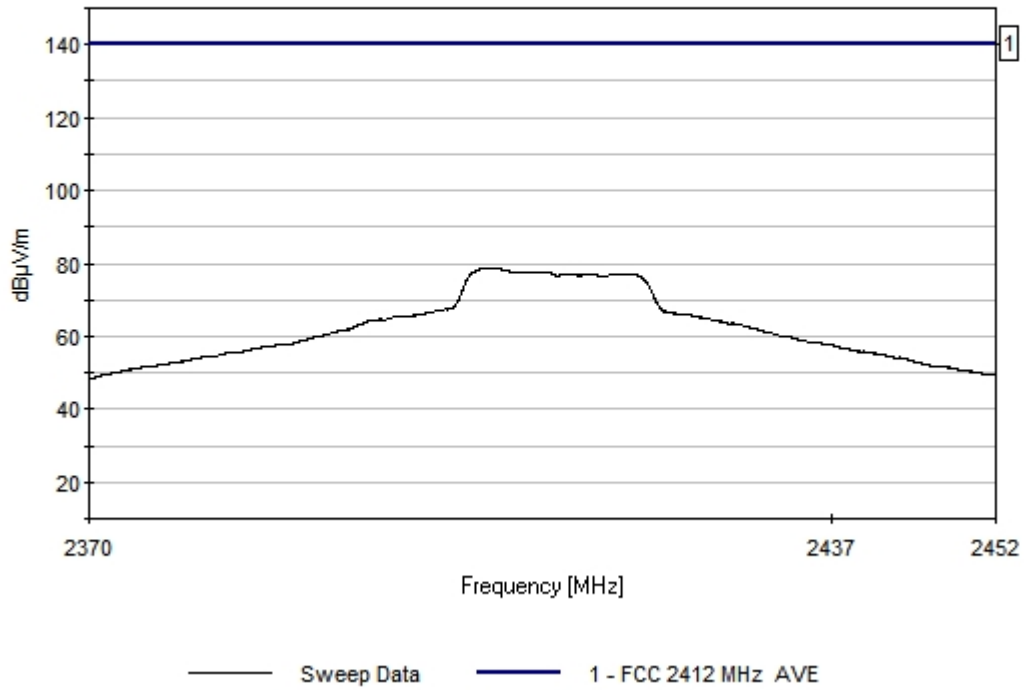
**Measurement Data:**

Reading listed by margin.

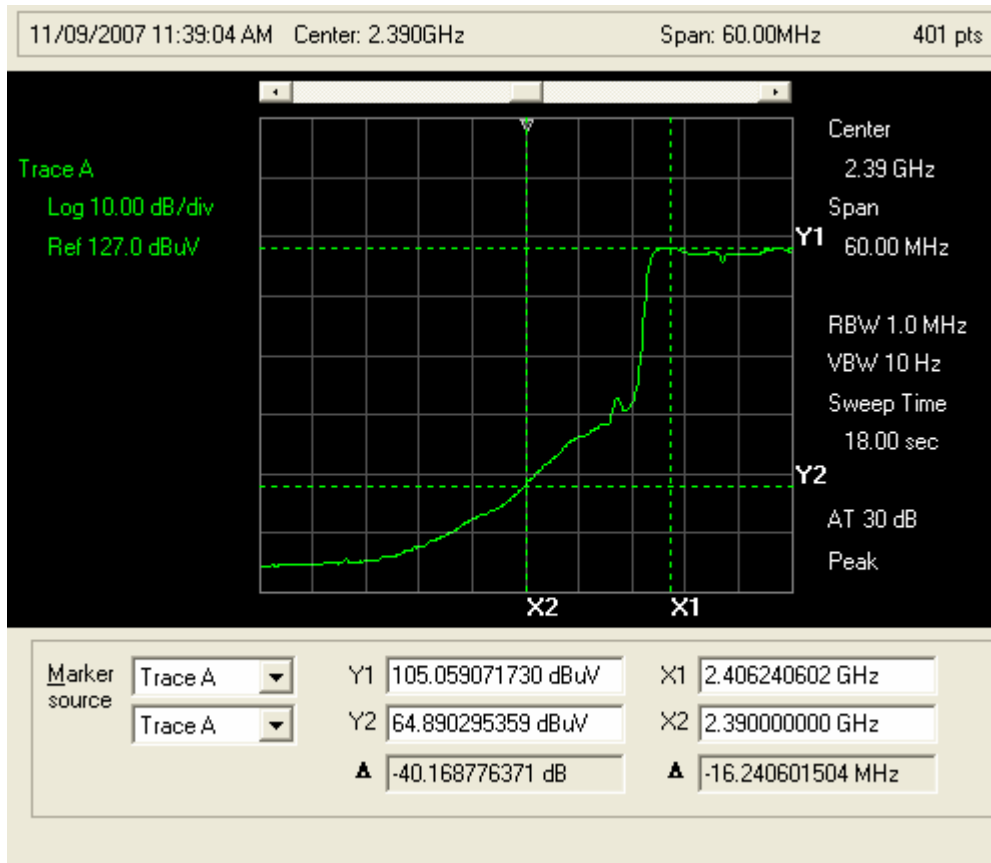
Test Distance: 1 Meter

#	Freq MHz	Rdng dB $\mu$ V	T1 dB	T2 dB	T3 dB	Dist dB	Table	Corr dB $\mu$ V/m	Spec dB $\mu$ V/m	Margin dB	Polar Ant
1	2405.137M	104.6	+29.2	+54.9	+8.0	+0.0		<b>86.9</b>			Vert
2	2424.350M	91.7	+29.2	+54.9	+8.1	+0.0		74.1			Vert
3	2396.939M	90.9	+29.1	+54.9	+8.0	+0.0		73.1			Vert

EMCE Engineering Date: 11/23/2007 Time: 1:02:07 PM SocketMobile, Inc. WO#: 2725  
FCC 2412 MHz AVE Test Distance: 1 Meter Sequence#: 10



**Bandedge Measurement [Average]**



Bandedge Calculation:

Radiated Amplitude – Distance Factor (1 Meter) – Conducted Delta = Bandedge Amplitude

$$86.9 - 40.17 = 46.73 \text{ dBuV}$$

$$46.73 < 54 \text{ dB Limit}$$

**PASS**

**FCC ID: LUB-P500CF-1**  
**Bandedge Measurement**  
**[Channel 1 / 2412 MHz OFDM / 6 MBS - PEAK]**

**Channel 1 Peak Power [Radiated]**

Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 • 510-490-4307

Customer: **SocketMobile, Inc.**  
Specification: **FCC 2412 MHz PK**  
Work Order #: **2725**  
Test Type: **Radiated Scan**  
Equipment:  
Manufacturer:  
Model:  
S/N:

Date: 11/23/2007  
Time: 12:38:17 PM  
Sequence#: 10  
Tested By: Bob Cole

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
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**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
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**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

2412 MHZ OFDM 6 MBS PK 1 MHz RBW 1 MHz VBW 1 Meter
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**Transducer Legend:**

T1=A.H. SAS-200/571 Horn 1 meter	T2=84125 RF Amps
T3=cable1 2.4 GHz test	

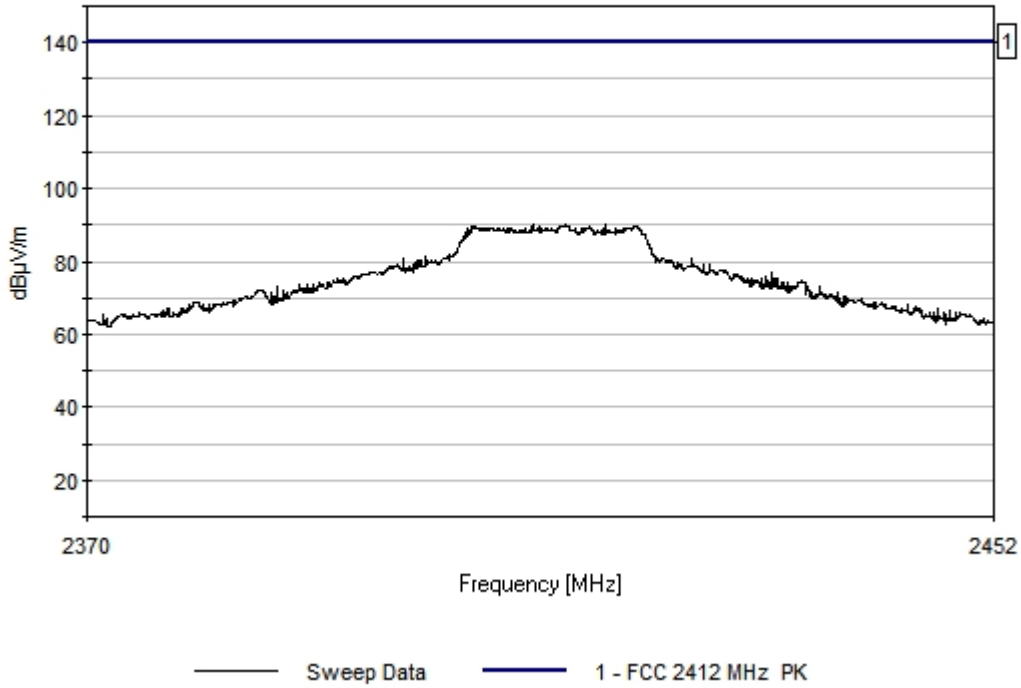
Ext Attn: 0 dB

**Measurement Data:** Reading listed by margin. Test Distance: 1 Meter

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	Dist dB	Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	2409.947M	117.7	+29.2	+54.9	+8.0	-10.0		<b>90.0</b>			Vert
2	2403.989M	116.9	+29.2	+54.9	+8.0	-10.0		89.2			Vert
3	2400.354M	108.9	+29.2	+54.9	+8.0	-10.0		81.2			Vert
4	2398.332M	108.3	+29.2	+54.9	+8.0	-10.0		80.6			Vert
5	2424.323M	108.2	+29.2	+54.9	+8.1	-10.0		80.6			Vert
6	2425.428M	107.0	+29.2	+54.9	+8.1	-10.0		79.4			Vert
7	2425.953M	106.8	+29.2	+54.9	+8.1	-10.0		79.2			Vert
8	2396.885M	105.9	+29.1	+54.9	+8.0	-10.0		78.1			Vert

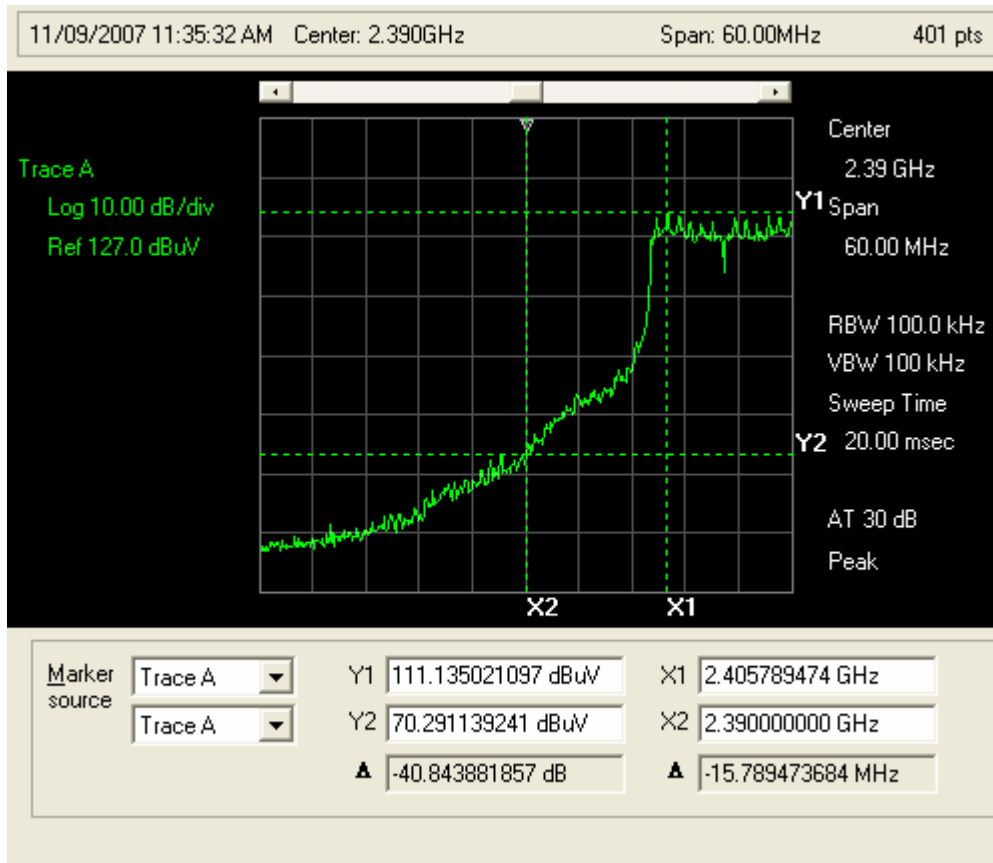
9	2431.592M	104.4	+29.2	+54.9	+8.1	-10.0	76.8	Vert
10	2431.094M	103.5	+29.2	+54.9	+8.1	-10.0	75.9	Vert

EMCE Engineering Date: 11/23/2007 Time: 12:38:17 PM SocketMobile, Inc. WO#: 2725  
FCC 2412 MHz PK Test Distance: 1 Meter Sequence#: 10





### Bandedge Measurement [Peak]



Bandedge Calculation:

Radiated Amplitude – Distance Factor (1 Meter) – Conducted Delta = Bandedge Amplitude

$$90.0 - 40.84 = 49.16 \text{ dBuV}$$

$$49.16 < 74 \text{ dB Limit}$$

**PASS**

**FCC ID: LUB-P500CF-1**  
**Bandedge Measurement**  
**[Channel 11 / 2462 MHz CCK / 1 MBS - AVERAGE]**

**Channel 11 Average Power [Radiated]**

Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 • 510-490-4307

Customer: **SocketMobile, Inc.**  
Specification: **FCC 2462 MHz AVE**  
Work Order #: **2725**  
Test Type: **Radiated Scan**  
Equipment:  
Manufacturer:  
Model:  
S/N:

Date: 11/23/2007  
Time: 1:05:25 PM  
Sequence#: 11  
Tested By: Bob Cole

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
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**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
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**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

2462 MHZ OFDM 6 MBS AVE 1 MHz RBW 10 Hz VBW 1 Meter
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**Transducer Legend:**

T1=A.H. SAS-200/571 Horn 1 meter	T2=84125 RF Amps
T3=cable 1 2.4 GHz test	

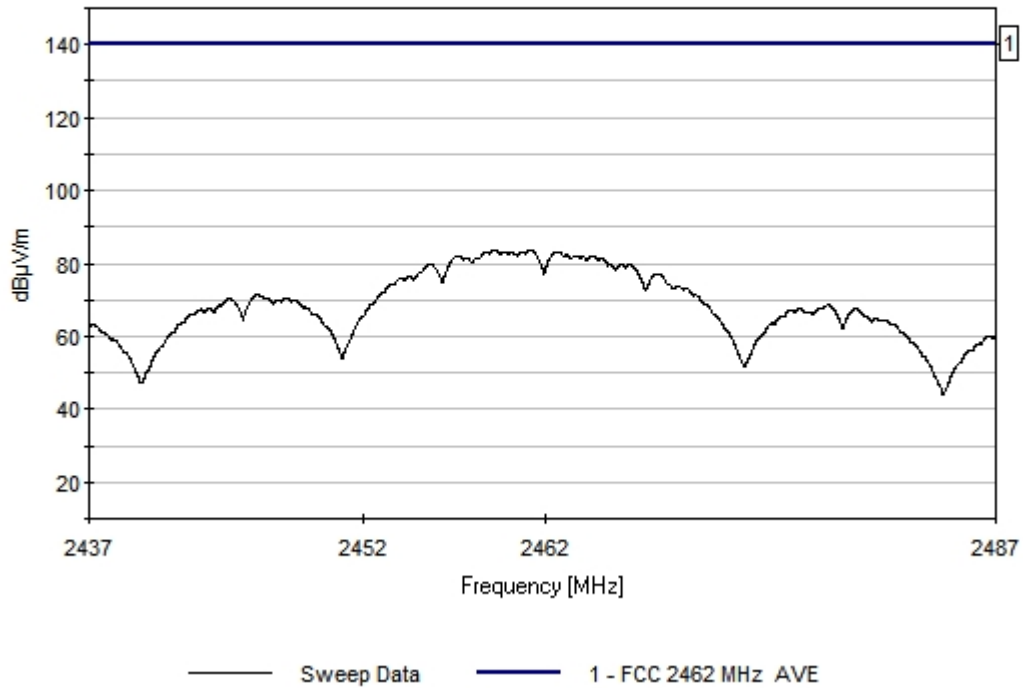
Ext Attn: 0 dB

**Measurement Data:** Reading listed by margin. Test Distance: 1 Meter

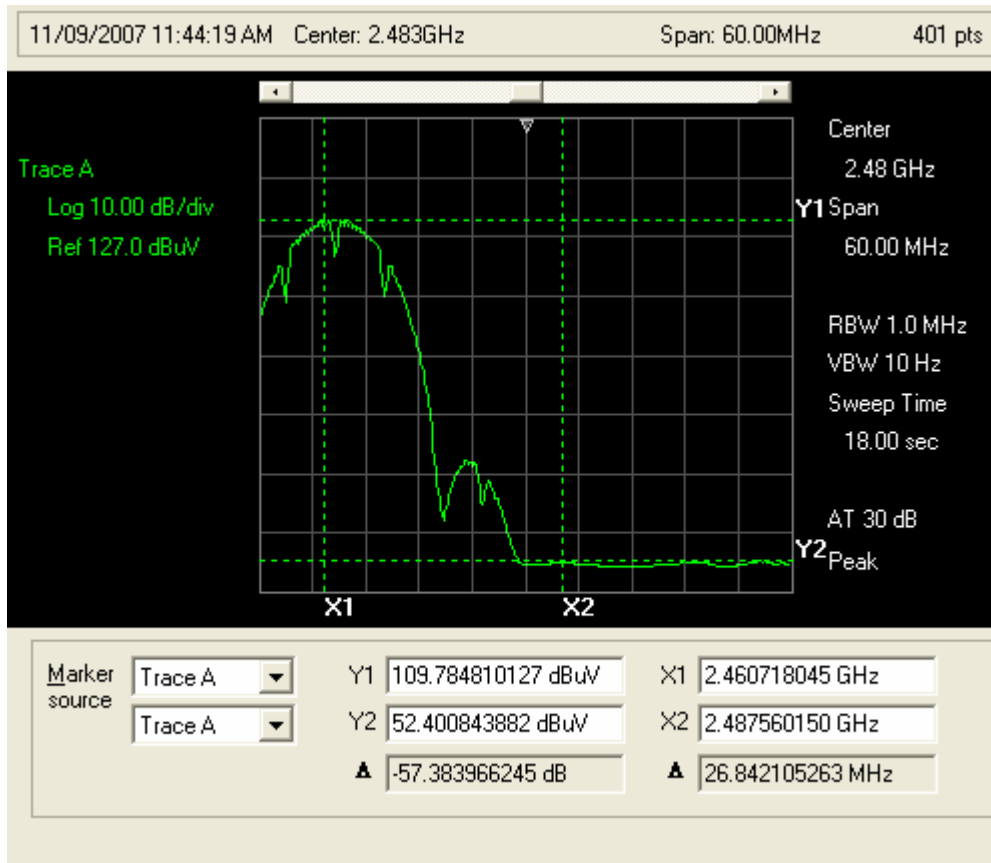
#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	Dist dB	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	2459.168M	111.2	+29.2	+55.0	+8.1	-10.0	<b>83.5</b>			Vert
2	2462.602M	110.9	+29.2	+55.0	+8.1	-10.0	83.2			Vert
3	2455.617M	107.4	+29.2	+55.0	+8.1	-10.0	79.7			Vert
4	2468.203M	104.8	+29.3	+55.0	+8.1	-10.0	77.2			Vert
5	2453.533M	102.1	+29.2	+55.0	+8.1	-10.0	74.4			Vert
6	2446.185M	99.0	+29.2	+54.9	+8.1	-10.0	71.4			Vert
7	2470.220M	99.0	+29.3	+55.0	+8.1	-10.0	71.4			Vert
8	2444.646M	97.9	+29.2	+54.9	+8.1	-10.0	70.3			Vert

9	2477.599M	96.0	+29.3	+55.0	+8.2	-10.0	68.5	Vert
10	2479.192M	95.1	+29.3	+55.0	+8.2	-10.0	67.6	Vert

EMCE Engineering Date: 11/23/2007 Time: 1:05:25 PM SocketMobile, Inc. WO#: 2725  
FCC 2462 MHz AVE Test Distance: 1 Meter Sequence#: 11



**Bandedge Measurement [Average]**



Bandedge Calculation:

Radiated Amplitude – Distance Factor (1 Meter) – Conducted Delta = Bandedge Amplitude

$$83.5 - 57.38 = 26.12 \text{ dBuV}$$

$$26.12 < 54 \text{ dB Limit}$$

**PASS**

**FCC ID: LUB-P500CF-1**  
**Bandedge Measurement**  
**[Channel 11 / 2462 MHz CCK / 1 MBS - PEAK]**

**Channel 11 Peak Power [Radiated]**

Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 • 510-490-4307

Customer: **SocketMobile, Inc.**  
Specification: **FCC 2462 MHz PK**  
Work Order #: **2725**  
Test Type: **Radiated Scan**  
Equipment:  
Manufacturer:  
Model:  
S/N:

Date: 11/23/2007  
Time: 1:07:42 PM  
Sequence#: 12  
Tested By: Bob Cole

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
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**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
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**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

2462 MHz CCK 1 MBS PK 1 MHz RBW 1 MHz VBW 1 Meter
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**Transducer Legend:**

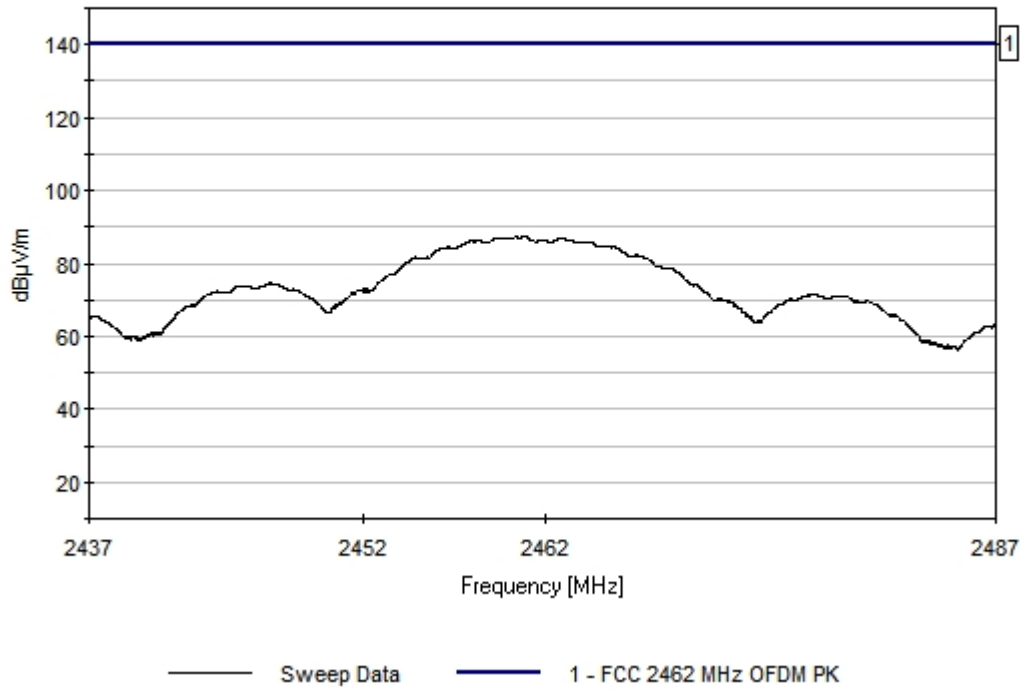
T1=A.H. SAS-200/571 Horn 1 meter	T2=84125 RF Amps
T3=cable1 2.4 GHz test	

Ext Attn: 0 dB

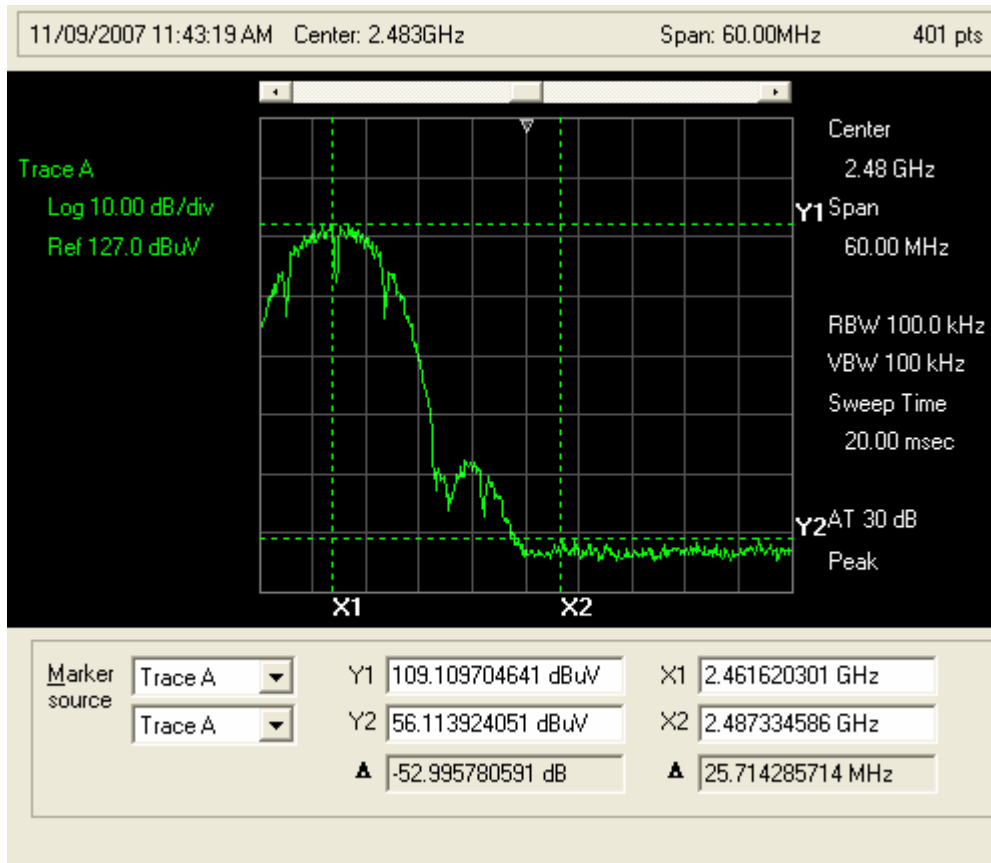
**Measurement Data:** Reading listed by margin. Test Distance: 1 Meter

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	Dist dB	Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	2460.802M	115.0	+29.2	+55.0	+8.1	-10.0		<b>87.3</b>			Vert
2	2453.434M	104.6	+29.2	+55.0	+8.1	-10.0		76.9			Vert
3	2446.897M	102.2	+29.2	+54.9	+8.1	-10.0		74.6			Vert
4	2470.304M	101.7	+29.3	+55.0	+8.1	-10.0		74.1			Vert
5	2476.895M	99.2	+29.3	+55.0	+8.2	-10.0		71.7			Vert
6	2437.281M	93.1	+29.2	+54.9	+8.1	-10.0		65.5			Vert
7	2486.973M	90.6	+29.3	+55.0	+8.2	-10.0		63.1			Vert

EMCE Engineering Date: 11/23/2007 Time: 1:07:42 PM SocketMobile, Inc. WO#: 2725  
FCC 2462 MHz OFDM PK Test Distance: 1 Meter Sequence#: 12



### Bandedge Measurement [Peak]



Bandedge Calculation:

Radiated Amplitude – Distance Factor (1 Meter) – Conducted Delta = Bandedge Amplitude

$$87.30 - 53.00 = 34.30 \text{ dBuV}$$

$$34.30 < 74 \text{ dB Limit}$$

**PASS**

**FCC ID: LUB-P500CF-1**  
**Bandedge Measurement**  
**[Channel 11 / 2462 MHz OFDM / 6 MBS - AVERAGE]**

**Channel 11 Average Power [Radiated]**

Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 • 510-490-4307

Customer: **SocketMobile, Inc.**  
Specification: **FCC 2462 MHz AVE**  
Work Order #: **2725**  
Test Type: **Radiated Scan**  
Equipment:  
Manufacturer:  
Model:  
S/N:

Date: 11/23/2007  
Time: 12:59:08 PM  
Sequence#: 16  
Tested By: Bob Cole

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
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**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
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**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

2462 MHZ OFDM 6 MBS AVE 1 MHz RBW 10 Hz VBW 1 Meter
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**Transducer Legend:**

T1=A.H. SAS-200/571 Horn 1 meter	T2=84125 RF Amps
T3=cable 1 2.4 GHz test	

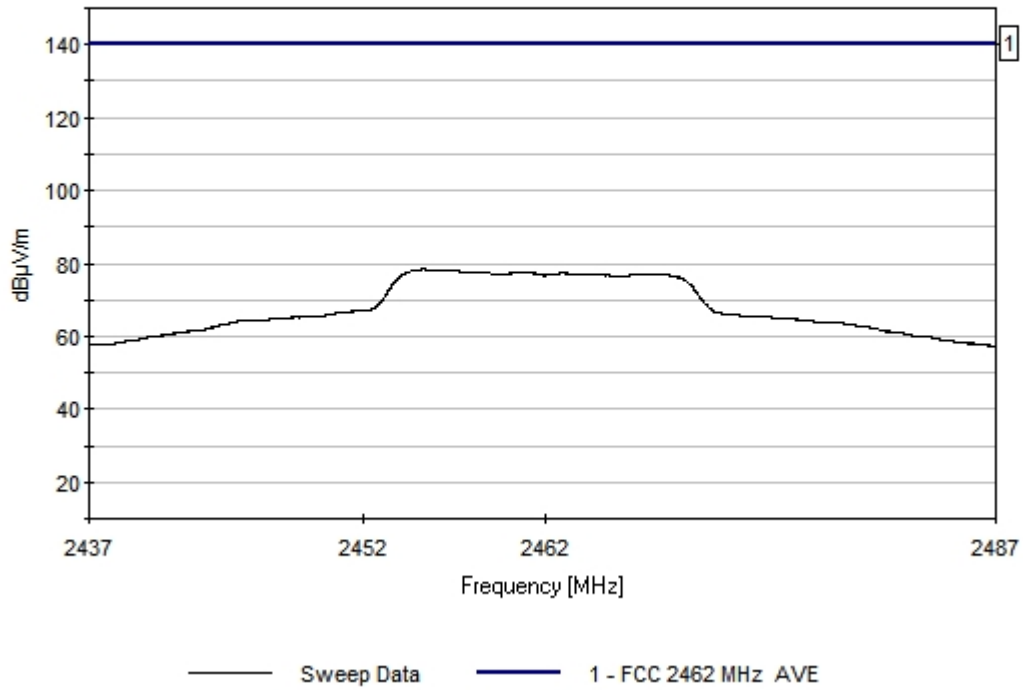
Ext Attn: 0 dB

**Measurement Data:** Reading listed by margin. Test Distance: 1 Meter

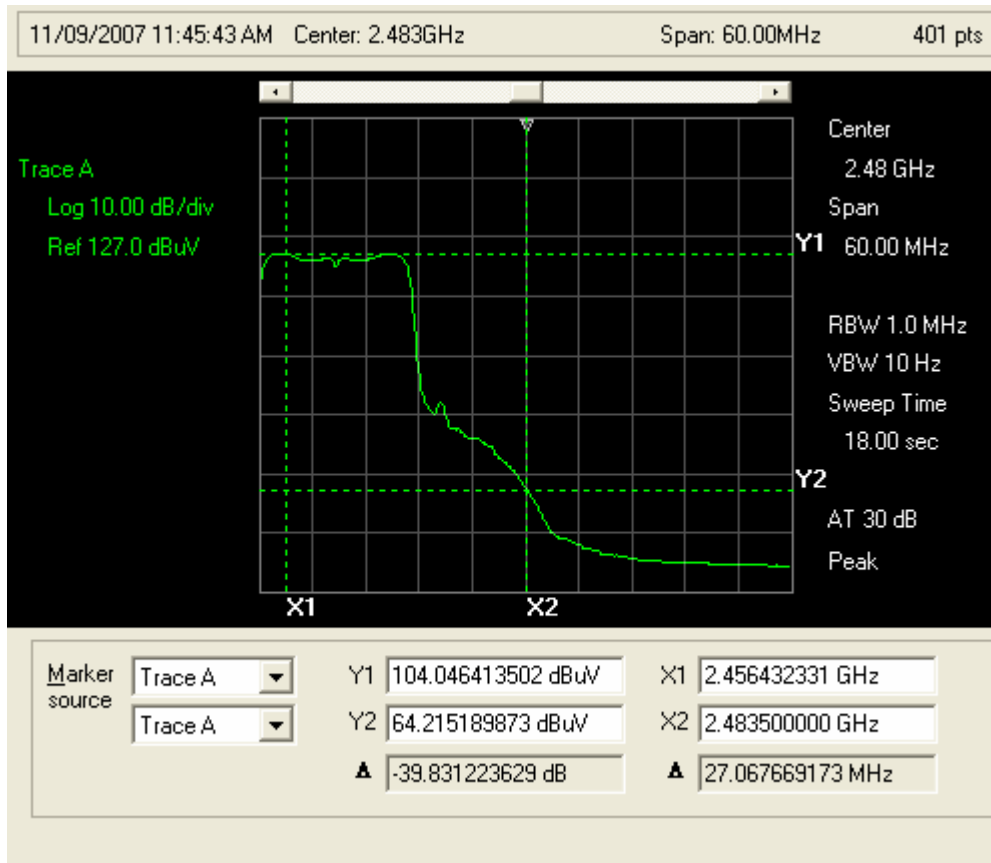
#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	2455.250M	106.1	+29.2	+55.0	+8.1	-10.0	<b>78.4</b>			Horiz
2	2453.533M	101.2	+29.2	+55.0	+8.1	-10.0	73.5			Horiz
3	2470.220M	100.6	+29.3	+55.0	+8.1	-10.0	73.0			Horiz



EMCE Engineering Date: 11/23/2007 Time: 12:59:08 PM SocketMobile, Inc. WO#: 2725  
FCC 2462 MHz AVE Test Distance: 1 Meter Sequence#: 16



**Bandedge Measurement [Average]**



Bandedge Calculation:

Radiated Amplitude – Distance Factor (1 Meter) – Conducted Delta = Bandedge Amplitude

$$78.40 - 39.83 = 38.57 \text{ dBuV}$$

$$38.57 < 54 \text{ dB Limit}$$

**PASS**

**FCC ID: LUB-P500CF-1**  
**Bandedge Measurement**  
**[Channel 11 / 2462 MHz OFDM / 6 MBS - PEAK]**

**Channel 11 Peak Power [Radiated]**

Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 • 510-490-4307

Customer: **SocketMobile, Inc.**  
Specification: **FCC 2462 MHz PK**  
Work Order #: **2725**  
Test Type: **Radiated Scan**  
Equipment:  
Manufacturer:  
Model:  
S/N:

Date: 11/23/2007  
Time: 12:54:51 PM  
Sequence#: 16  
Tested By: Bob Cole

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
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**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
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**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

2462 MHz OFDM 6 MBS PK 1 MHz RBW 1 MHz VBW 1 Meter
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**Transducer Legend:**

T1=A.H. SAS-200/571 Horn 1 meter	T2=84125 RF Amps
T3=cable 1 2.4 GHz test	

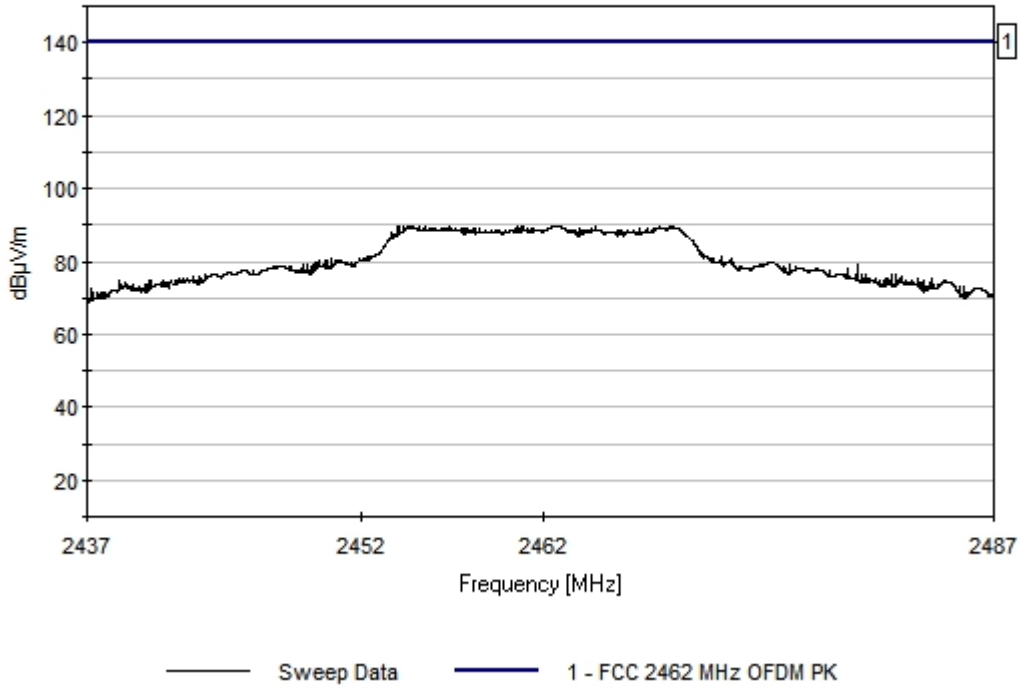
Ext Attn: 0 dB

**Measurement Data:** Reading listed by margin. Test Distance: 1 Meter

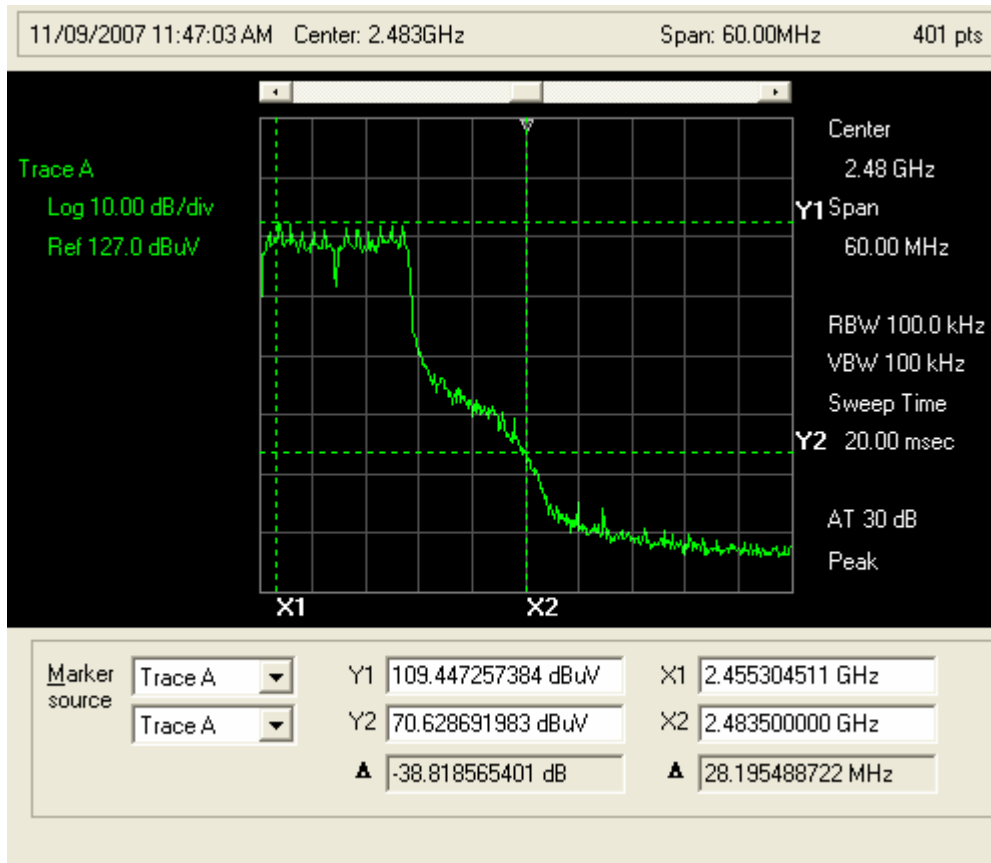
#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	Dist dB	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	2454.333M	117.5	+29.2	+55.0	+8.1	-10.0	<b>89.8</b>			Horiz
2	2462.985M	117.5	+29.2	+55.0	+8.1	-10.0	89.8			Horiz
3	2460.568M	117.3	+29.2	+55.0	+8.1	-10.0	89.6			Horiz
4	2454.033M	117.2	+29.2	+55.0	+8.1	-10.0	89.5			Horiz
5	2453.717M	115.7	+29.2	+55.0	+8.1	-10.0	88.0			Horiz
6	2453.683M	115.5	+29.2	+55.0	+8.1	-10.0	87.8			Horiz
7	2470.220M	113.4	+29.3	+55.0	+8.1	-10.0	85.8			Horiz
8	2453.451M	113.4	+29.2	+55.0	+8.1	-10.0	85.7			Horiz

9	2472.450M	108.3	+29.3	+55.0	+8.1	-10.0	80.7	Horiz
10	2449.446M	107.2	+29.2	+55.0	+8.1	-10.0	79.5	Horiz

EMCE Engineering Date: 11/23/2007 Time: 12:54:51 PM SocketMobile, Inc. WO#: 2725  
FCC 2462 MHz OFDM PK Test Distance: 1 Meter Sequence#: 16



**Bandedge Measurement [Peak]**



Bandedge Calculation:

Radiated Amplitude – Distance Factor (1 Meter) – Conducted Delta = Bandedge Amplitude

$$89.80 - 38.81 = 50.99 \text{ dBuV}$$

$$50.99 < 74 \text{ dB Limit}$$

**PASS**

## RESTRICTED BAND MEASUREMENTS

### Restricted Band Measurements [CFR 47, 15.247(c) and RSS-210 6.2.2(o)]

<b>EUT</b>	<b>GO WI-FI! P500</b>
<b>Test setup</b>	B (Radiated)
<b>Temp, Humidity, Air Pressure</b>	68° F, 30.02
<b>Date of Measurement</b>	11/23/07
<b>Measured by</b>	Bob Cole
<b>Result</b>	PASSED

*All Restricted Band measurements made in both horizontal and vertical polarizations with the worst case data reported.*

### Restricted Band Spurious Radiated Emissions 30 - 1000 MHz

Test Location: EMCE Engineering • 44366 S. Grimmer Blvd • Fremont, CA 94538 • 510-490-4307

Customer:	<b>Socket Communications</b>	
Specification:	<b>FCC Restricted Band 30 - 1000</b>	
Work Order #:	<b>2725</b>	Date: 5/23/2007
Test Type:	<b>Radiated Scan</b>	Time: 11:12:26 AM
Equipment:	<b>CF WLAN</b>	Sequence#: 4
Manufacturer:	SocketMobile	Tested By: Bob Cole
Model:	Go WiFi! P500	
S/N:		

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
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**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
CF WLAN*	SocketMobile	Go WiFi! P500	

**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

RBW = 100 kHz
VBW = 300 kHz
Tested Channel 1, 6, 11 at 6 MBS (OFDM) and 1 MBS (CCK)
Peak measurements meet Average Limits

Reading listed by margin.

Test Distance: 1 Meter

**Measurement Data:**

#	Freq MHz	Rdng dBµV	dB	dB	dB	dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
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*No Signals Detected Within 10 dB of the limits.*

## Restricted Band Spurious Radiated Emissions 1000 - 2400 MHz Channel 1 / 2412 MHz / CCK Peak

Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 • 510-490-4307

Customer: **Socket Communications**  
 Specification: **FCC Peak Restricted Band 1000-2400**  
 Work Order #: **2721** Date: 11/13/2007  
 Test Type: **Radiated Scan** Time: 2:15:53 PM  
 Equipment: **CF WLAN** Sequence#: 15  
 Manufacturer: **SocketMobile** Tested By: Bob Cole  
 Model: **CFWLAN II**  
 S/N:

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
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**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
CF WLAN*	SocketMobile	CFWLAN II	

**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

RBW = 1 MHz VBW = 1 MHz Channel 1 / 2412 MHz 1 MBS / CCK
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**Transducer Legend:**

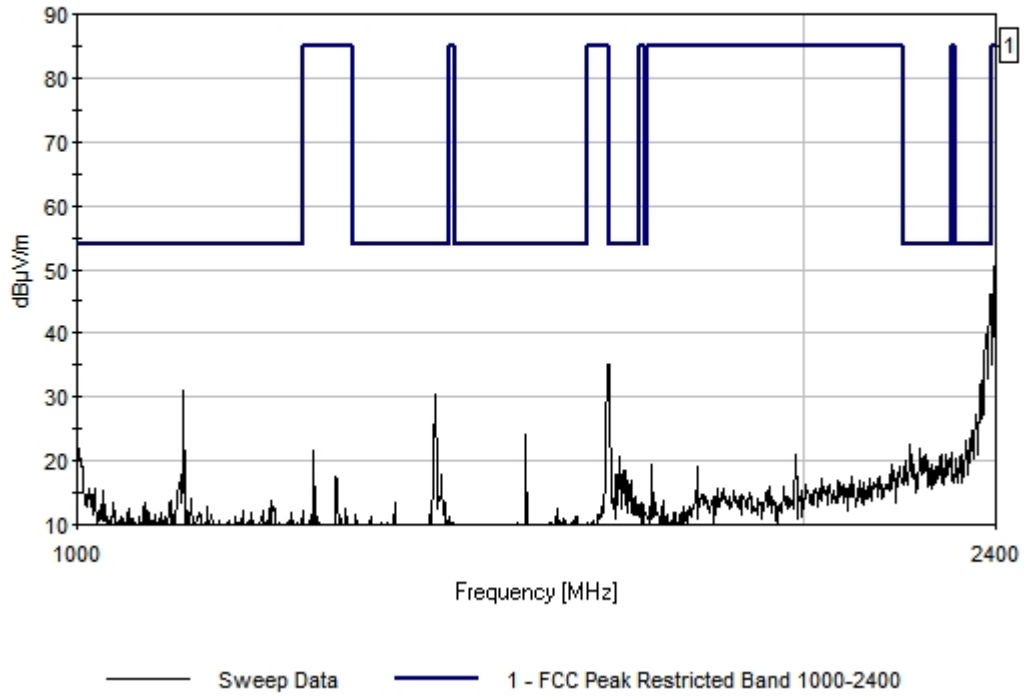
--

Ext Attn: 0 dB

**Measurement Data:** Reading listed by margin. Test Distance: 1 Meter

#	Freq MHz	Rdng dBµV	dB	dB	dB	dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	2387.852M	56.0					-10.0	46.0	54.0	-8.0	Vert
2	2377.222M	49.9					-10.0	39.9	54.0	-14.1	Vert
3	2366.593M	42.7					-10.0	32.7	54.0	-21.3	Vert
4	1661.027M	42.6					-10.0	32.6	54.0	-21.4	Vert
5	1106.754M	41.1					-10.0	31.1	54.0	-22.9	Vert
6	1406.955M	40.3					-10.0	30.3	54.0	-23.7	Vert
7	2354.445M	37.3					-10.0	27.3	54.0	-26.7	Vert
8	1532.857M	34.1					-10.0	24.1	54.0	-29.9	Vert
9	2331.667M	33.3					-10.0	23.3	54.0	-30.7	Vert
10	1000.847M	32.9					-10.0	22.9	54.0	-31.1	Vert

EMCE Engineering Date: 11/13/2007 Time: 2:15:53 PM Socket Communications WO#: 2721  
FCC Peak Restricted Band 1000-2400 Test Distance: 1 Meter Sequence#: 15





## Channel 1 / 2412 MHz / OFDM Peak

Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 • 510-490-4307

Customer: **Socket Communications**  
 Specification: **FCC Peak Restricted Band 1000-2400**  
 Work Order #: **2721** Date: 11/13/2007  
 Test Type: **Radiated Scan** Time: 2:13:59 PM  
 Equipment: **CF WLAN** Sequence#: 14  
 Manufacturer: **SocketMobile** Tested By: Bob Cole  
 Model: **CFWLAN II**  
 S/N:

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
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**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
CF WLAN*	SocketMobile	CFWLAN II	

**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

RBW = 1 MHz VBW = 1 MHz Channel 1 / 2412 MHz 6 MBS / OFDM
---

**Transducer Legend:**

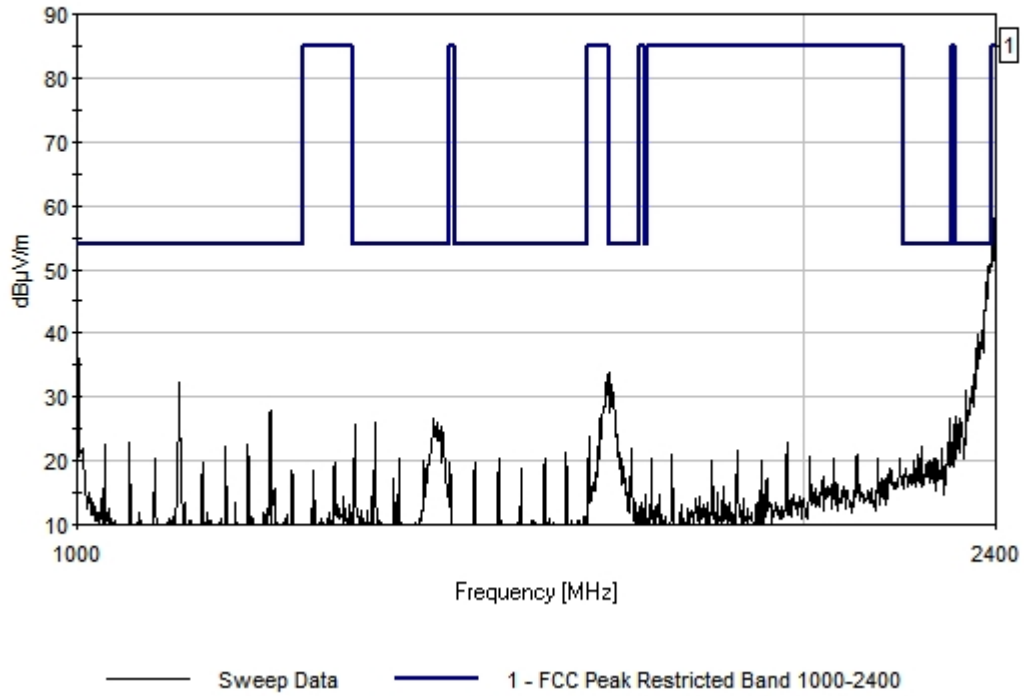
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Ext Attn: 0 dB

**Measurement Data:** Reading listed by margin. Test Distance: 1 Meter

#	Freq MHz	Rdng dB $\mu$ V	dB	dB	dB	dB	Dist Table	Corr dB $\mu$ V/m	Spec dB $\mu$ V/m	Margin dB	Polar Ant
1	2384.815M	60.8					-10.0	50.8	54.0	-3.2	Vert
2	2366.593M	50.3					-10.0	40.3	54.0	-13.7	Vert
3	2357.482M	49.9					-10.0	39.9	54.0	-14.1	Vert
4	1001.695M	46.1					-10.0	36.1	54.0	-17.9	Vert
5	1101.670M	42.4					-10.0	32.4	54.0	-21.6	Vert
6	1663.296M	42.1					-10.0	32.1	54.0	-21.9	Vert
7	1661.027M	41.4					-10.0	31.4	54.0	-22.6	Vert
8	2331.667M	40.9					-10.0	30.9	54.0	-23.1	Vert
9	1202.493M	38.0					-10.0	28.0	54.0	-26.0	Vert
10	2398.481M	68.9					-10.0	58.9	85.0	-26.1	Vert

EMCE Engineering Date: 11/13/2007 Time: 2:13:59 PM Socket Communications WO#: 2721  
FCC Peak Restricted Band 1000-2400 Test Distance: 1 Meter Sequence#: 14



## Channel 1 / 2412 MHz / CCK Average

Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 • 510-490-4307

Customer: **Socket Communications**  
 Specification: **FCC Rad Average Limits 1000-2400**  
 Work Order #: **2721**  
 Test Type: **Radiated Scan**  
 Equipment: **CF WLAN**  
 Manufacturer: **SocketMobile**  
 Model: **CFWLAN II**  
 S/N:

Date: 11/13/2007  
 Time: 2:20:13 PM  
 Sequence#: 11  
 Tested By: Bob Cole

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
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**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
CF WLAN*	SocketMobile	CFWLAN II	

**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

RBW = 1 MHz VBW = 10 Hz Channel 1 / 2412 MHz 1 MBS / CCK
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**Transducer Legend:**

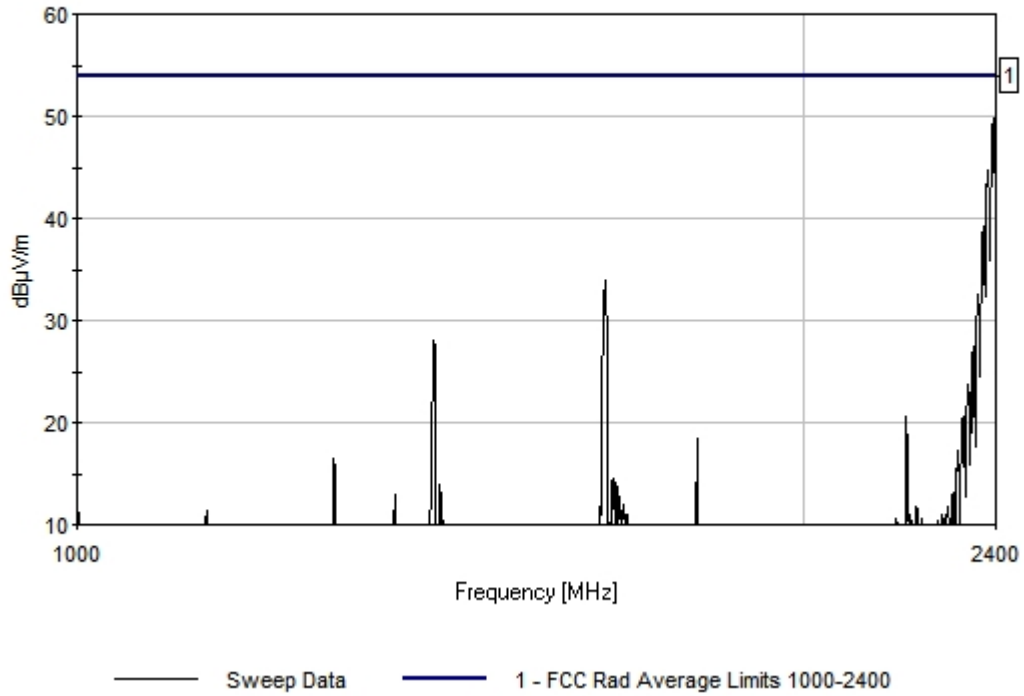
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Ext Attn: 0 dB

**Measurement Data:** Reading listed by margin. Test Distance: 1 Meter

#	Freq MHz	Rdng dBµV	dB	dB	dB	dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	2393.926M	59.9					-10.0	49.9	54.0	-4.1	Vert
2	2381.778M	54.8					-10.0	44.8	54.0	-9.2	Vert
3	2371.148M	49.2					-10.0	39.2	54.0	-14.8	Vert
4	1653.087M	44.0					-10.0	34.0	54.0	-20.0	Vert
5	2359.000M	42.6					-10.0	32.6	54.0	-21.4	Vert
6	1404.687M	38.0					-10.0	28.0	54.0	-26.0	Vert
7	2348.371M	37.4					-10.0	27.4	54.0	-26.6	Vert
8	2337.741M	33.7					-10.0	23.7	54.0	-30.3	Vert
9	2204.114M	30.6					-10.0	20.6	54.0	-33.4	Vert
10	2327.112M	30.6					-10.0	20.6	54.0	-33.4	Vert

EMCE Engineering Date: 11/13/2007 Time: 2:20:13 PM Socket Communications WO#: 2721  
FCC Rad Average Limits 1000-2400 Test Distance: 1 Meter Sequence#: 11



## Channel 1 / 2412 MHz / OFDM Average

Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 • 510-490-4307

Customer: **Socket Communications**  
 Specification: **FCC Rad Average Limits 1000-2400**  
 Work Order #: **2721**  
 Test Type: **Radiated Scan**  
 Equipment: **CF WLAN**  
 Manufacturer: **SocketMobile**  
 Model: **CFWLAN II**  
 S/N:

Date: 11/13/2007  
 Time: 11:32:52 AM  
 Sequence#: 10  
 Tested By: Bob Cole

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
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**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
CF WLAN*	SocketMobile	CFWLAN II	

**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

RBW = 1 MHz VBW = 10 Hz Channel 1 / 2412 MHz 6 MBS / OFDM
---

**Transducer Legend:**

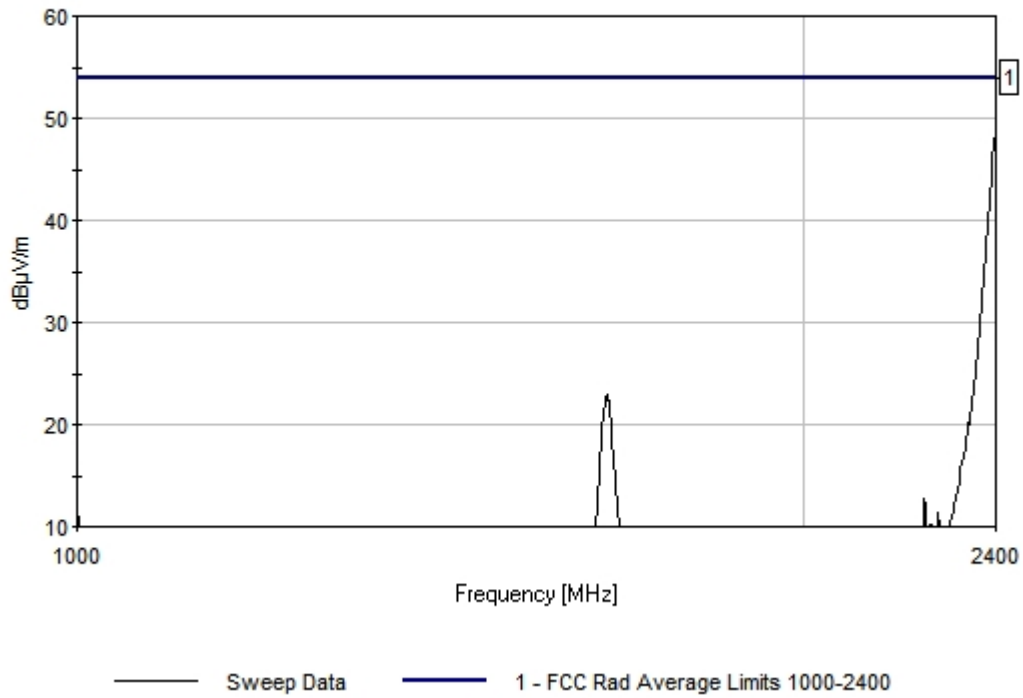
--

Ext Attn: 0 dB

**Measurement Data:** Reading listed by margin. Test Distance: 1 Meter

#	Freq MHz	Rdng dBµV	dB	dB	dB	dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	2398.481M	58.5					-10.0	48.5	54.0	-5.5	Vert
2	1656.490M	33.0					-10.0	23.0	54.0	-31.0	Vert
3	1000.000M	23.3					-10.0	13.3	54.0	-40.7	Vert
4	2242.076M	22.8					-10.0	12.8	54.0	-41.2	Vert

EMCE Engineering Date: 11/13/2007 Time: 11:32:52 AM Socket Communications WO#: 2721  
FCC Rad Average Limits 1000-2400 Test Distance: 1 Meter Sequence#: 10



## Channel 6 / 2437 MHz / CCK Average

Test Location: EMCE Engineering • 44366 S. Grimmer Blvd • Fremont, CA 94538 • 510-490-4307

Customer: **SocketMobile, Inc.**  
 Specification: **FCC Restricted Band Peak 1M -2.4M**  
 Work Order #: **2725** Date: 11/24/2007  
 Test Type: **Radiated Scan** Time: 2:56:47 PM  
 Equipment: **CF WLAN** Sequence#: 8  
 Manufacturer: SocketMobile Tested By: Bob Cole  
 Model: Go WiFi! P500  
 S/N:

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
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**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
CF WLAN*	SocketMobile	Go WiFi! P500	

**Support Devices:**

Function	Manufacturer	Model #	S/N
PDA (Host)	Dell	C22	

**Test Conditions / Notes:**

Channel 6 / 2437 MHz / CCK / 1 MBS RBW = 1 MHz VBW = 10 Hz 1 Meter
--

**Transducer Legend:**

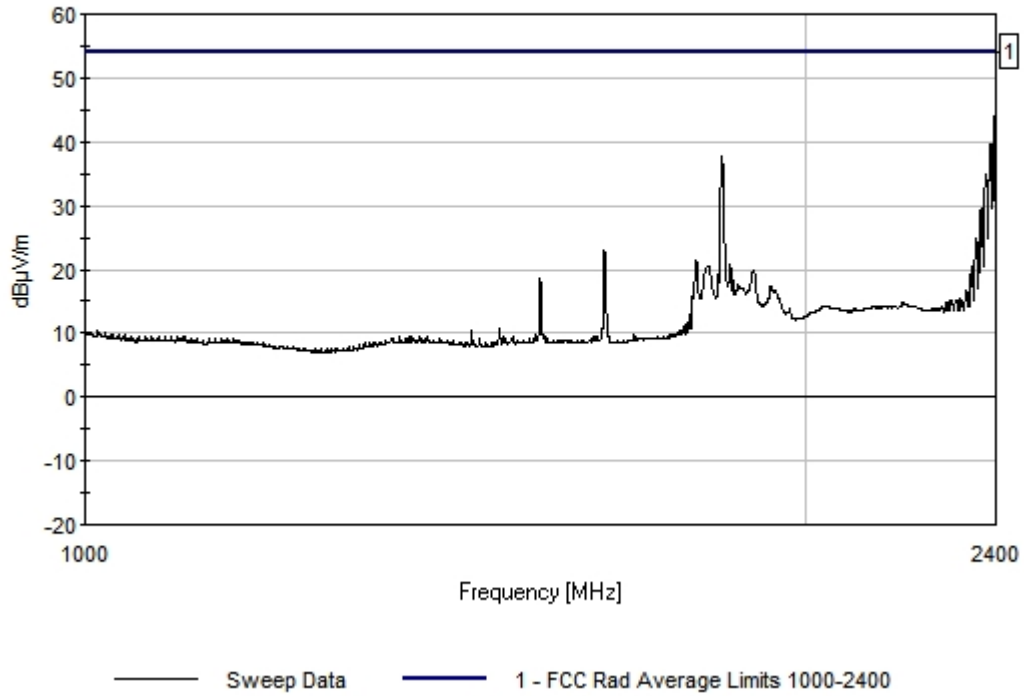
T1=84125 RF Amps	T2=A.H. SAS-200/571 Horn 1 meter
T3=cable1 18 GHz test	

Ext Attn: 0 dB

**Measurement Data:** Reading listed by margin. Test Distance: 1 Meter

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	Dist dB	Corr dB	Spec dBµV/m	Margin dB	Polar Ant
1	1511.660M	66.0	+54.9	+24.5	+1.1	-10.0	26.7	54.0	-27.3	Vert
2	2257.238M	61.3	+54.9	+28.9	+1.3	-10.0	26.6	54.0	-27.4	Vert
3	1144.668M	66.7	+54.8	+23.7	+0.8	-10.0	26.4	54.0	-27.6	Vert
4	1893.953M	62.9	+55.0	+27.2	+1.3	-10.0	26.4	54.0	-27.6	Vert
5	1000.000M	63.5	+54.8	+0.0	+0.7	-10.0	-0.6	54.0	-54.6	Vert

EMCE Engineering Date: 11/24/2007 Time: 4:01:03 PM SocketMobile, Inc. WO#: 2725  
FCC Rad Average Limits 1000-2400 Test Distance: 1 Meter Sequence#: 25





## Channel 6 / 2437 MHz / CCK PK

Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 • 510-490-4307

Customer: **SocketMobile, Inc.**  
 Specification: **FCC Peak Restricted Band 1000-2400**  
 Work Order #: **2725** Date: 11/24/2007  
 Test Type: **Radiated Scan** Time: 3:48:15 PM  
 Equipment: **CF WLAN** Sequence#: 23  
 Manufacturer: SocketMobile Tested By: Bob Cole  
 Model: Go WiFi! P500  
 S/N:

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
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**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
CF WLAN*	SocketMobile	Go WiFi! P500	

**Support Devices:**

Function	Manufacturer	Model #	S/N
PDA (Host)	Dell	C22	

**Test Conditions / Notes:**

Channel 6 / 2437 MHz / CCK / 1 MBS RBW = 1 MHz VBW = 1 MHz 1 Meter
--

**Transducer Legend:**

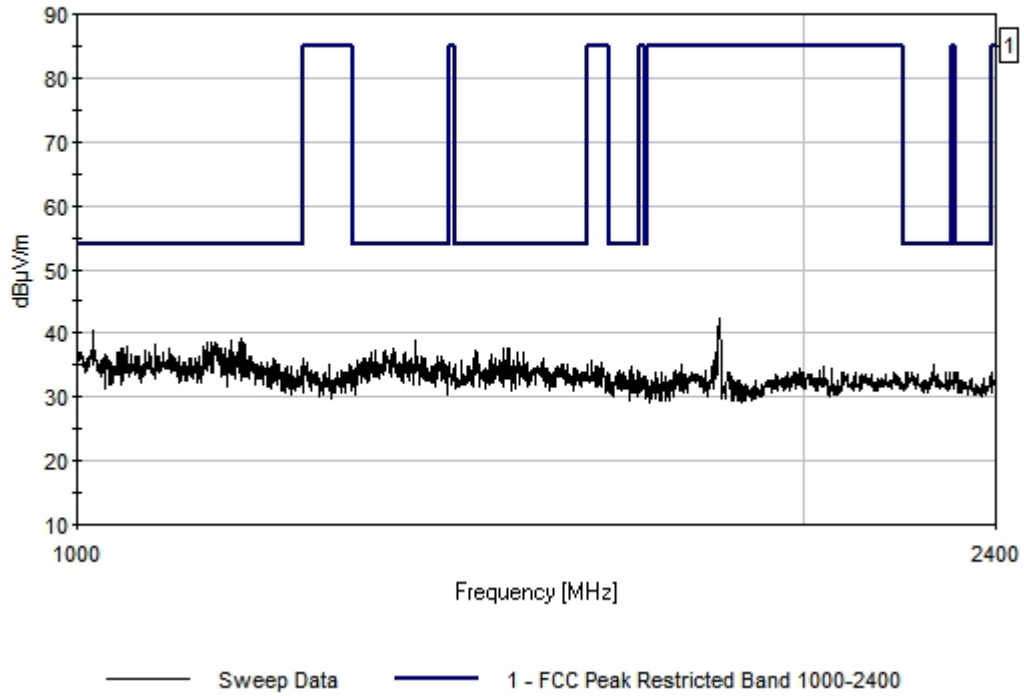
T1=84125 RF Amps	T2=A.H. SAS-200/571 Horn 1 meter
T3=cable1 18 GHz test	

Ext Attn: 0 dB

**Measurement Data:** Reading listed by margin. Test Distance: 1 Meter

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	1015.585M	81.1	+54.8	+23.5	+0.7	-10.0	40.5	54.0	-13.5	Vert	
2	1169.400M	79.4	+54.8	+23.7	+0.8	-10.0	39.1	54.0	-14.9	Vert	
3	1381.448M	78.7	+54.9	+24.2	+1.0	-10.0	39.0	54.0	-15.0	Vert	
4	1157.542M	79.1	+54.8	+23.7	+0.8	-10.0	38.8	54.0	-15.2	Vert	
5	1136.875M	79.0	+54.8	+23.7	+0.8	-10.0	38.7	54.0	-15.3	Vert	
6	1166.351M	79.0	+54.8	+23.7	+0.8	-10.0	38.7	54.0	-15.3	Vert	
7	1132.132M	78.9	+54.8	+23.7	+0.8	-10.0	38.6	54.0	-15.4	Vert	
8	1141.280M	78.9	+54.8	+23.7	+0.8	-10.0	38.6	54.0	-15.4	Vert	
9	1077.924M	78.7	+54.8	+23.6	+0.8	-10.0	38.3	54.0	-15.7	Vert	
10	1128.744M	78.3	+54.8	+23.7	+0.8	-10.0	38.0	54.0	-16.0	Vert	

EMCE Engineering Date: 11/24/2007 Time: 3:48:15 PM SocketMobile, Inc. WO#: 2725  
FCC Peak Restricted Band 1000-2400 Test Distance: 1 Meter Sequence#: 23



## Channel 6 / 2437 MHz / OFDM Average

Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 • 510-490-4307

Customer: **SocketMobile, Inc.**  
 Specification: **FCC Rad Average Limits 1000-2400**  
 Work Order #: **2725**  
 Test Type: **Radiated Scan**  
 Equipment: **CF WLAN**  
 Manufacturer: SocketMobile  
 Model: Go WiFi! P500  
 S/N:

Date: 11/24/2007  
 Time: 4:04:27 PM  
 Sequence#: 10  
 Tested By: Bob Cole

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
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**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
CF WLAN*	SocketMobile	Go WiFi! P500	

**Support Devices:**

Function	Manufacturer	Model #	S/N
PDA (Host)	Dell	C22	

**Test Conditions / Notes:**

Channel 6 / 2437 MHz / OFDM / 6 MBS RBW = 1 MHz VBW = 10 Hz 1 Meter
---

**Transducer Legend:**

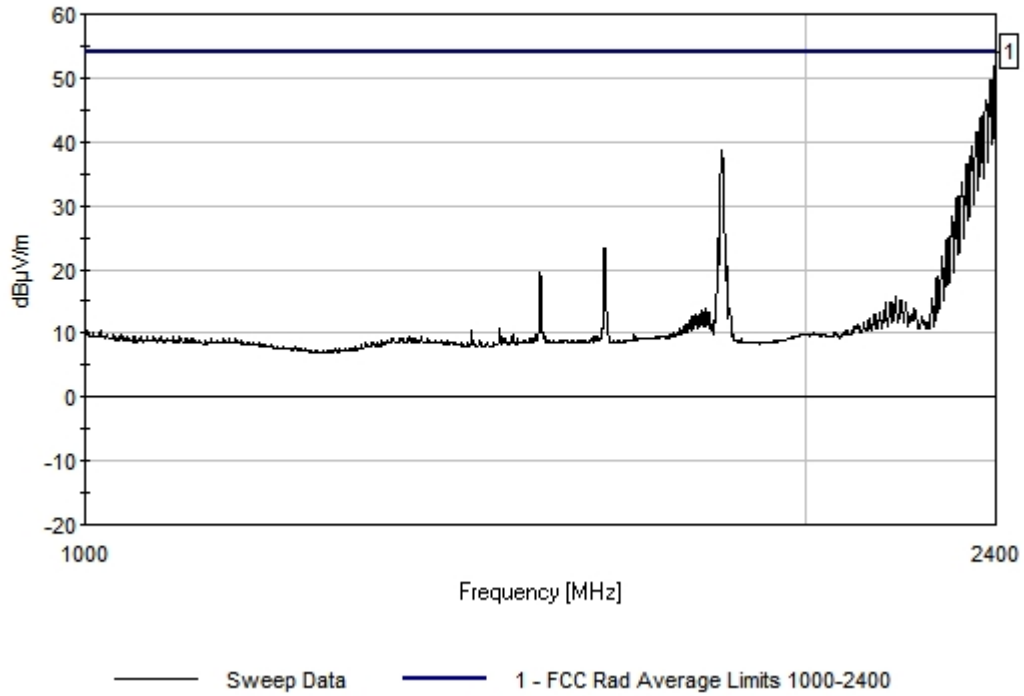
T1=84125 RF Amps	T2=A.H. SAS-200/571 Horn 1 meter
T3=cable1 18 GHz test	

Ext Attn: 0 dB

**Measurement Data:** Reading listed by margin. Test Distance: 1 Meter

#	Freq MHz	Rdng dB $\mu$ V	T1 dB	T2 dB	T3 dB	Dist Table dB	Corr dB $\mu$ V/m	Spec dB $\mu$ V/m	Margin dB	Polar Ant
1	2399.393M	87.4	+54.8	+29.2	+1.3	-10.0	53.1	54.0	-0.9	Vert
2	2387.850M	84.0	+54.8	+29.1	+1.3	-10.0	49.6	54.0	-4.4	Vert
3	2378.130M	81.0	+54.8	+29.1	+1.3	-10.0	46.6	54.0	-7.4	Vert
4	2365.980M	78.3	+54.8	+29.1	+1.3	-10.0	43.9	54.0	-10.1	Vert
5	2355.045M	76.0	+54.8	+29.1	+1.3	-10.0	41.6	54.0	-12.4	Vert
6	2345.325M	73.6	+54.8	+29.1	+1.3	-10.0	39.2	54.0	-14.8	Vert
7	1844.137M	76.0	+55.0	+26.6	+1.2	-10.0	38.8	54.0	-15.2	Vert
8	2334.390M	70.9	+54.8	+29.1	+1.3	-10.0	36.5	54.0	-17.5	Vert
9	2323.455M	68.2	+54.8	+29.0	+1.3	-10.0	33.7	54.0	-20.3	Vert
10	2312.520M	65.8	+54.8	+29.0	+1.3	-10.0	31.3	54.0	-22.7	Vert

EMCE Engineering Date: 11/24/2007 Time: 4:04:27 PM SocketMobile, Inc. WO#: 2725  
FCC Rad Average Limits 1000-2400 Test Distance: 1 Meter Sequence#: 10



## Channel 6 / 2437 MHz / OFDM Peak

Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 • 510-490-4307

Customer: **SocketMobile, Inc.**  
 Specification: **FCC Peak Restricted Band 1000-2400**  
 Work Order #: **2725** Date: 11/24/2007  
 Test Type: **Radiated Scan** Time: 3:44:08 PM  
 Equipment: **CF WLAN** Sequence#: 21  
 Manufacturer: **SocketMobile** Tested By: **Bob Cole**  
 Model: **Go WiFi! P500**  
 S/N:

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
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**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
CF WLAN*	SocketMobile	Go WiFi! P500	

**Support Devices:**

Function	Manufacturer	Model #	S/N
PDA (Host)	Dell	C22	

**Test Conditions / Notes:**

Channel 6 / 2437 MHz / OFDM / 6 MBS RBW = 1 MHz VBW = 1 MHz 1 Meter
---

**Transducer Legend:**

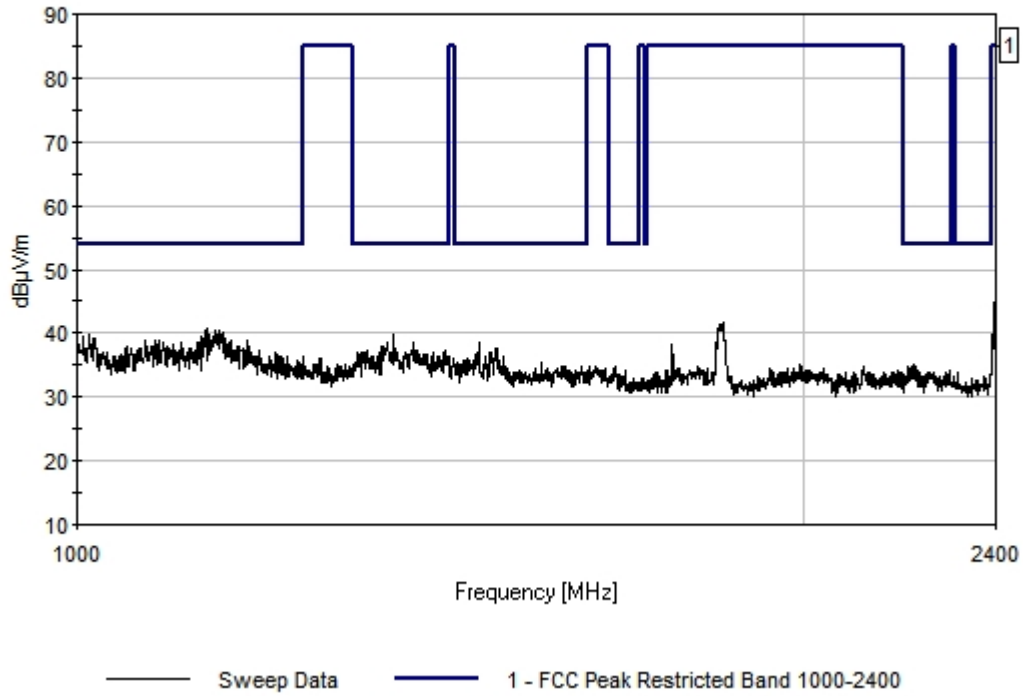
T1=84125 RF Amps	T2=A.H. SAS-200/571 Horn 1 meter
T3=cable1 18 GHz test	

Ext Attn: 0 dB

**Measurement Data:** Reading listed by margin. Test Distance: 1 Meter

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	1132.132M	81.2	+54.8	+23.7	+0.8		-10.0	40.9	54.0	-13.1	Vert
2	1145.684M	80.8	+54.8	+23.7	+0.8		-10.0	40.5	54.0	-13.5	Vert
3	1130.777M	80.7	+54.8	+23.7	+0.8		-10.0	40.4	54.0	-13.6	Vert
4	1140.602M	80.7	+54.8	+23.7	+0.8		-10.0	40.4	54.0	-13.6	Vert
5	1149.072M	80.5	+54.8	+23.7	+0.8		-10.0	40.2	54.0	-13.8	Vert
6	1011.858M	80.3	+54.8	+23.5	+0.7		-10.0	39.7	54.0	-14.3	Vert
7	1352.411M	79.5	+54.9	+24.1	+1.0		-10.0	39.7	54.0	-14.3	Vert
8	1005.421M	80.1	+54.8	+23.5	+0.7		-10.0	39.5	54.0	-14.5	Vert
9	1126.034M	79.7	+54.8	+23.7	+0.8		-10.0	39.4	54.0	-14.6	Vert
10	1016.940M	79.8	+54.8	+23.5	+0.7		-10.0	39.2	54.0	-14.8	Vert

EMCE Engineering Date: 11/24/2007 Time: 3:44:08 PM SocketMobile, Inc. WO#: 2725  
FCC Peak Restricted Band 1000-2400 Test Distance: 1 Meter Sequence#: 21



## Channel 11 / 2462 MHz / CCK PK

Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 • 510-490-4307

Customer: **Socket Communications**  
 Specification: **FCC Restricted Band 2483.5 - 18000**  
 Work Order #: **2721**  
 Test Type: **Radiated Scan**  
 Equipment: **CF WLAN**  
 Manufacturer: **SocketMobile**  
 Model: **CFWLAN II**  
 S/N:

Date: 11/13/2007  
 Time: 12:47:43 PM  
 Sequence#: 12  
 Tested By: Bob Cole

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
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**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
CF WLAN*	SocketMobile	CFWLAN II	

**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

RBW = 1 MHz VBW = 1 MHz Channel 11 / 2462 MHz 1 MBS / CCK
---

**Transducer Legend:**

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Ext Attn: 0 dB

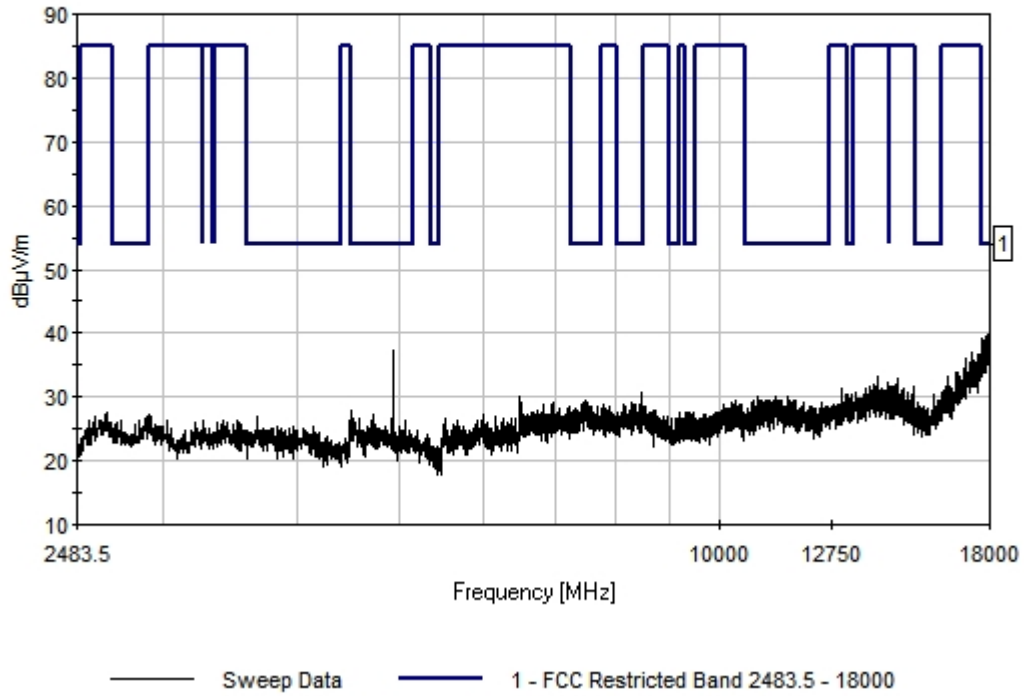
**Measurement Data:**

Reading listed by margin.

Test Distance: 1 Meter

#	Freq MHz	Rdng dB $\mu$ V	dB	dB	dB	dB	Dist Table	Corr dB $\mu$ V/m	Spec dB $\mu$ V/m	Margin dB	Polar Ant
1	17992.480M	50.2					-10.0	40.2	54.0	-13.8	Vert
2	17845.790M	49.5					-10.0	39.5	54.0	-14.5	Vert
3	17707.880M	49.3					-10.0	39.3	54.0	-14.7	Vert
4	17788.120M	48.8					-10.0	38.8	54.0	-15.2	Vert
5	17818.210M	48.0					-10.0	38.0	54.0	-16.0	Vert
6	4928.942M	47.4					-10.0	37.4	54.0	-16.6	Vert
7	14485.990M	41.8					-10.0	31.8	54.0	-22.2	Vert
8	8469.980M	40.6					-10.0	30.6	54.0	-23.4	Vert
9	13314.820M	40.5					-10.0	30.5	54.0	-23.5	Vert
10	15934.940M	40.5					-10.0	30.5	54.0	-23.5	Vert

EMCE Engineering Date: 11/13/2007 Time: 12:47:43 PM Socket Communications WO#: 2721  
FCC Restricted Band 2483.5 - 18000 Test Distance: 1 Meter Sequence#: 12





## Channel 11 / 2462 MHz / OFDM PK

Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 • 510-490-4307

Customer: **Socket Communications**  
 Specification: **FCC Restricted Band 2483.5 - 18000**  
 Work Order #: **2721**  
 Test Type: **Radiated Scan**  
 Equipment: **CF WLAN**  
 Manufacturer: **SocketMobile**  
 Model: **CFWLAN II**  
 S/N:

Date: 11/13/2007  
 Time: 12:50:59 PM  
 Sequence#: 13  
 Tested By: Bob Cole

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
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**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
CF WLAN*	SocketMobile	CFWLAN II	

**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

RBW = 1 MHz VBW = 1 MHz Channel 11 / 2462 MHz 6 MBS / OFDM
--

**Transducer Legend:**

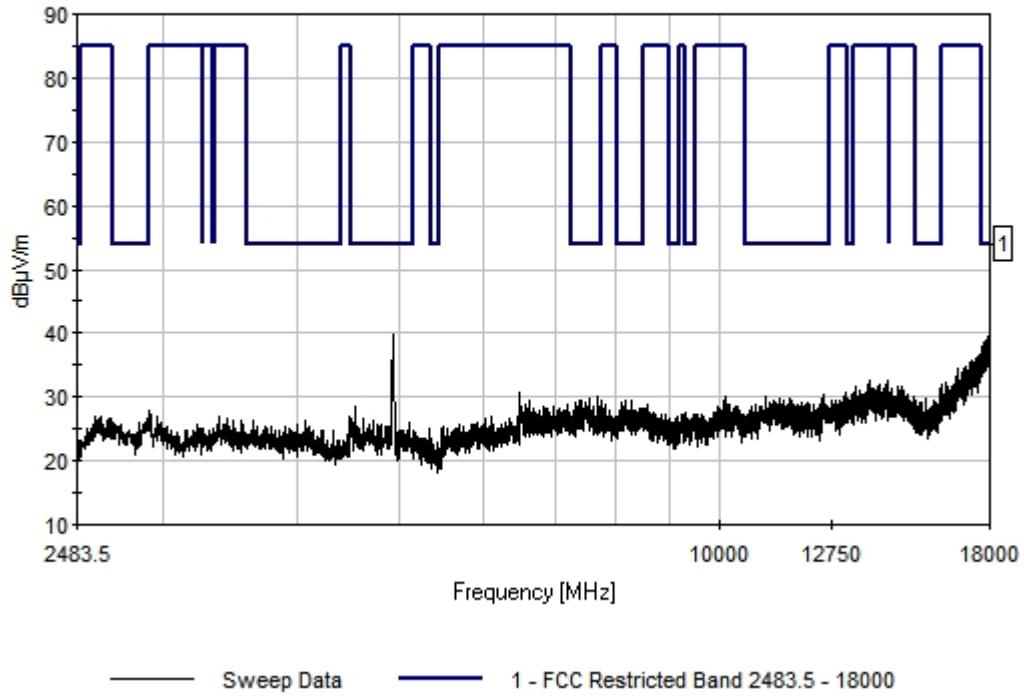
--

Ext Attn: 0 dB

**Measurement Data:** Reading listed by margin. Test Distance: 1 Meter

#	Freq MHz	Rdng dBµV	dB	dB	dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	4928.942M	49.8				-10.0	39.8	54.0	-14.2	Vert
2	17968.660M	49.7				-10.0	39.7	54.0	-14.3	Vert
3	17729.190M	48.5				-10.0	38.5	54.0	-15.5	Vert
4	17734.210M	48.2				-10.0	38.2	54.0	-15.8	Vert
5	17781.850M	47.8				-10.0	37.8	54.0	-16.2	Vert
6	17791.880M	47.2				-10.0	37.2	54.0	-16.8	Vert
7	16185.190M	42.0				-10.0	32.0	54.0	-22.0	Vert
8	14491.000M	40.7				-10.0	30.7	54.0	-23.3	Vert
9	13339.840M	40.4				-10.0	30.4	54.0	-23.6	Vert
10	13397.400M	40.4				-10.0	30.4	54.0	-23.6	Vert

EMCE Engineering Date: 11/13/2007 Time: 12:50:59 PM Socket Communications WO#: 2721  
FCC Restricted Band 2483.5 - 18000 Test Distance: 1 Meter Sequence#: 13



## Channel 11 / 2462 MHz / CCK Average

Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 • 510-490-4307

Customer: **Socket Communications**  
 Specification: **FCC Rad Average Limits 2483.5 - 12750**  
 Work Order #: **2721** Date: 11/13/2007  
 Test Type: **Radiated Scan** Time: 12:19:50 PM  
 Equipment: **CF WLAN** Sequence#: 12  
 Manufacturer: SocketMobile Tested By: Bob Cole  
 Model: CFWLAN II  
 S/N:

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
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**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
CF WLAN*	SocketMobile	CFWLAN II	

**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

RBW = 1 MHz VBW = 10 Hz 1MBS CCK
----------------------------------

**Transducer Legend:**

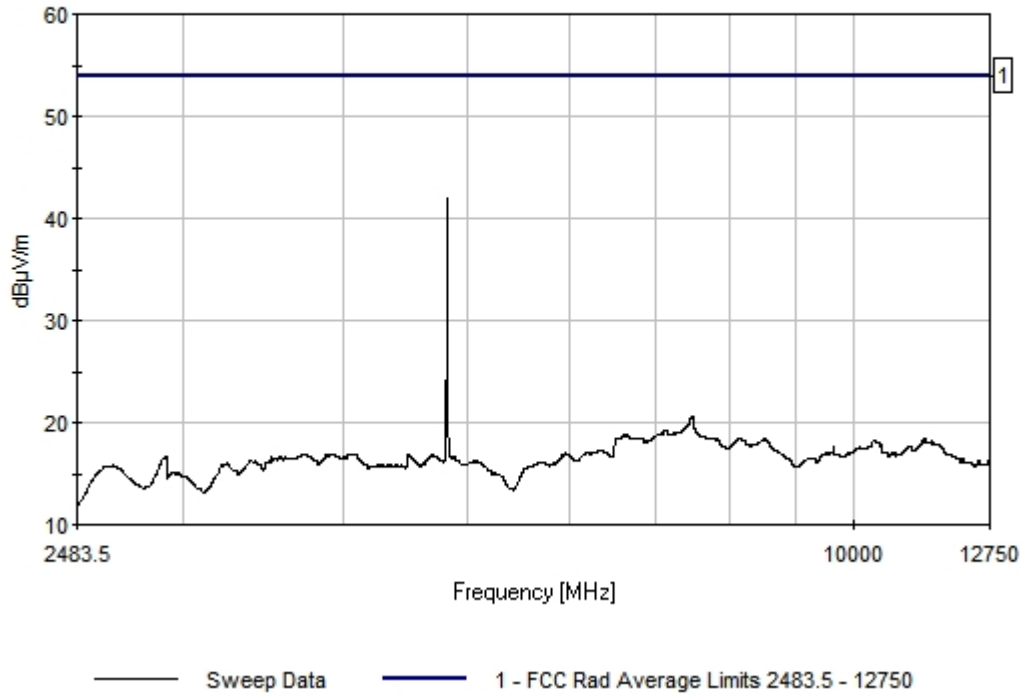
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Ext Attn: 0 dB

**Measurement Data:** Reading listed by margin. Test Distance: 1 Meter

#	Freq MHz	Rdng dBµV	dB	dB	dB	dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	4818.833M	51.9					-10.0	41.9	54.0	-12.1	Vert
2	4828.842M	37.7					-10.0	27.7	54.0	-26.3	Vert
3	4808.822M	34.2					-10.0	24.2	54.0	-29.8	Vert
4	7473.985M	30.5					-10.0	20.5	54.0	-33.5	Vert
5	7496.507M	29.6					-10.0	19.6	54.0	-34.4	Vert
6	8492.503M	28.5					-10.0	18.5	54.0	-35.5	Vert
7	11320.330M	28.4					-10.0	18.4	54.0	-35.6	Vert
8	10364.370M	28.3					-10.0	18.3	54.0	-35.7	Vert
9	11513.020M	28.0					-10.0	18.0	54.0	-36.0	Vert
10	6320.333M	27.3					-10.0	17.3	54.0	-36.7	Vert

EMCE Engineering Date: 11/13/2007 Time: 12:19:50 PM Socket Communications WO#: 2721  
FCC Rad Average Limits 2483.5 - 12750 Test Distance: 1 Meter Sequence#: 12



## Channel 11 / 2462 MHz / OFDM Average

Test Location: EMCE Engineering • 44366 S. Grimmer Blvd • Fremont, CA 94538 • 510-490-4307

Customer: **Socket Communications**  
 Specification: **FCC Rad Average Limits 2483.5 - 12750**  
 Work Order #: **2721** Date: 11/13/2007  
 Test Type: **Radiated Scan** Time: 12:54:21 PM  
 Equipment: **CF WLAN** Sequence#: 14  
 Manufacturer: **SocketMobile** Tested By: Bob Cole  
 Model: **CFWLAN II**  
 S/N:

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
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**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
CF WLAN*	SocketMobile	CFWLAN II	

**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

RBW = 1 MHz VBW = 10 Hz Channel 11 / 2462 MHz 6 MBS / OFDM
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**Transducer Legend:**

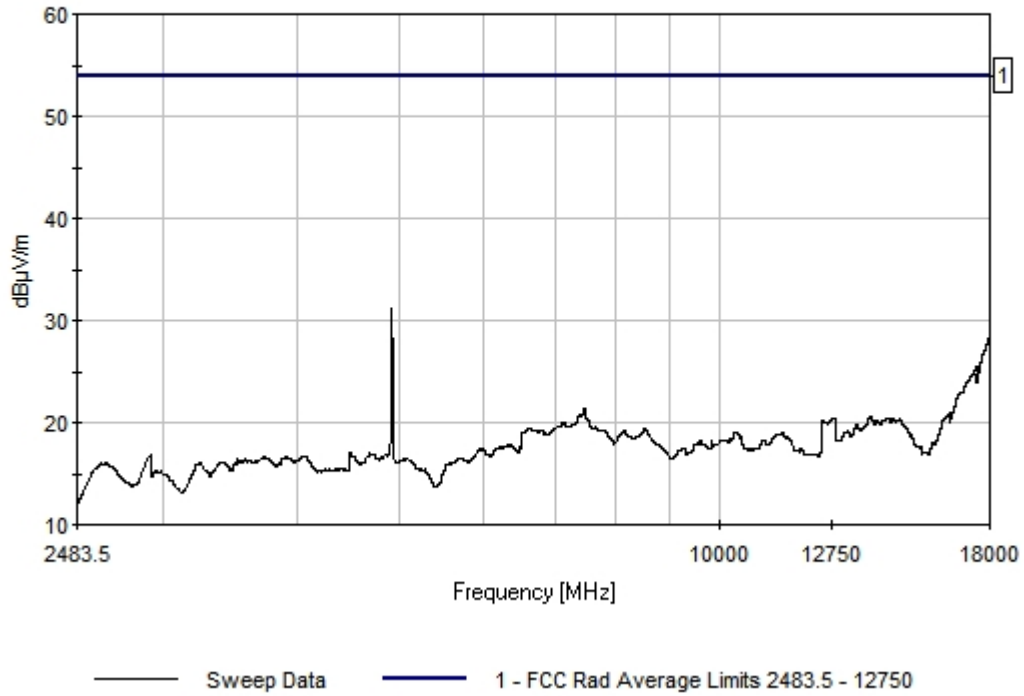
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Ext Attn: 0 dB

**Measurement Data:** Reading listed by margin. Test Distance: 1 Meter

#	Freq MHz	Rdng dBµV	dB	dB	dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	4916.430M	41.1				-10.0	31.1	54.0	-22.9	Vert
2	17981.190M	38.5				-10.0	28.5	54.0	-25.5	Vert
3	17473.970M	35.4				-10.0	25.4	54.0	-28.6	Vert
4	7468.980M	31.3				-10.0	21.3	54.0	-32.7	Vert
5	16487.990M	31.0				-10.0	21.0	54.0	-33.0	Vert
6	13920.420M	30.6				-10.0	20.6	54.0	-33.4	Vert
7	7489.000M	30.4				-10.0	20.4	54.0	-33.6	Vert
8	12816.820M	30.4				-10.0	20.4	54.0	-33.6	Vert
9	14778.780M	30.4				-10.0	20.4	54.0	-33.6	Vert
10	13482.490M	29.9				-10.0	19.9	54.0	-34.1	Vert

EMCE Engineering Date: 11/13/2007 Time: 12:54:21 PM Socket Communications WO#: 2721  
FCC Rad Average Limits 2483.5 - 12750 Test Distance: 1 Meter Sequence#: 14



# STAND-BY MODE RADIATED EMISSIONS MEASUREMENT

Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 • 510-490-4307

Customer: **SocketMobile, Inc.**  
 Specification: **FCC Restricted Band Peak 1000 - 18000**  
 Work Order #: **2721** Date: 6/18/2007  
 Test Type: **Radiated Scan** Time: 3:17:21 PM  
 Equipment: **CF WLAN** Sequence#: 14  
 Manufacturer: SocketMobile Tested By: Bob Cole  
 Model: CFWLAN II  
 S/N:

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
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**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
CF WLAN*	SocketMobile	CFWLAN II	

**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

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**Transducer Legend:**

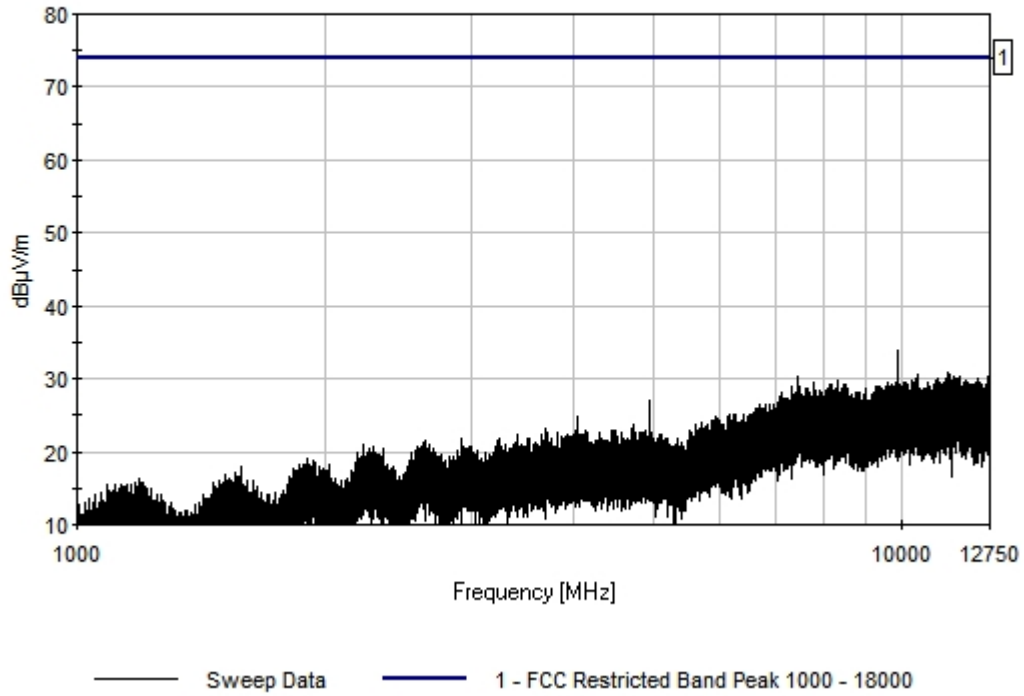
--

Ext Attn: 0 dB

**Measurement Data:** Reading listed by margin. Test Distance: 1 Meter

#	Freq MHz	Rdng dBµV	dB	dB	dB	dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	9888.127M	43.9					-10.0	33.9	74.0	-40.1	Vert
2	11359.850M	40.8					-10.0	30.8	74.0	-43.2	Vert
3	10404.400M	40.7					-10.0	30.7	74.0	-43.3	Vert
4	11386.690M	40.5					-10.0	30.5	74.0	-43.5	Vert
5	11545.980M	40.4					-10.0	30.4	74.0	-43.6	Vert
6	11739.040M	40.4					-10.0	30.4	74.0	-43.6	Vert
7	12686.860M	40.4					-10.0	30.4	74.0	-43.6	Vert
8	7443.047M	40.2					-10.0	30.2	74.0	-43.8	Vert
9	11600.150M	40.1					-10.0	30.1	74.0	-43.9	Vert
10	11643.260M	40.1					-10.0	30.1	74.0	-43.9	Vert

EMCE Engineering Date: 6/18/2007 Time: 3:17:21 PM SocketMobile, Inc. WO#: 2721  
FCC Restricted Band Peak 1000 - 18000 Test Distance: 1 Meter Sequence#: 14





## AC LINE CONDUCTED EMISSIONS MEASUREMENT

### AC Line Conducted Emissions Measurement 150 kHz – 30 MHz

<b>EUT</b>	<b>GO WI-FI! P500</b>
<b>Test setup</b>	C (conducted)
<b>Temp, Humidity, Air Pressure</b>	68° F, 30.69
<b>Date of Measurement</b>	6/3/06
<b>Measured by</b>	Bob Cole
<b>Result</b>	PASSED

### EUT operation mode

<b>EUT operation mode</b>	6 Mbit modulation [OFDM]
<b>EUT channel</b>	1
<b>EUT TX power level</b>	Maximum
<b>EUT operation voltage</b>	120 VAC

**LINE CONDUCTED EMISSIONS, .15 - 30 MHz**  
**EN 55022 Class B Limits**

**LINE 1**

Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 • 510-490-4307

Customer: **SocketMobile, Inc.**  
 Specification: **EN55022 B COND [AVE]**  
 Work Order #: **2725** Date: 6/3/2007  
 Test Type: **Conducted Emissions** Time: 3:11:54 PM  
 Equipment: **CF WLAN** Sequence#: 1  
 Manufacturer: **SocketMobile** Tested By: **Bob Cole**  
 Model: **Go WiFi! P500** 120V 60Hz  
 S/N:

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
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**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
CF WLAN*	SocketMobile	Go WiFi! P500	

**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

RBW = 100 kHz VBW = 100 kHz QPA = 9 kHz  Peak measurements meet Average Limits
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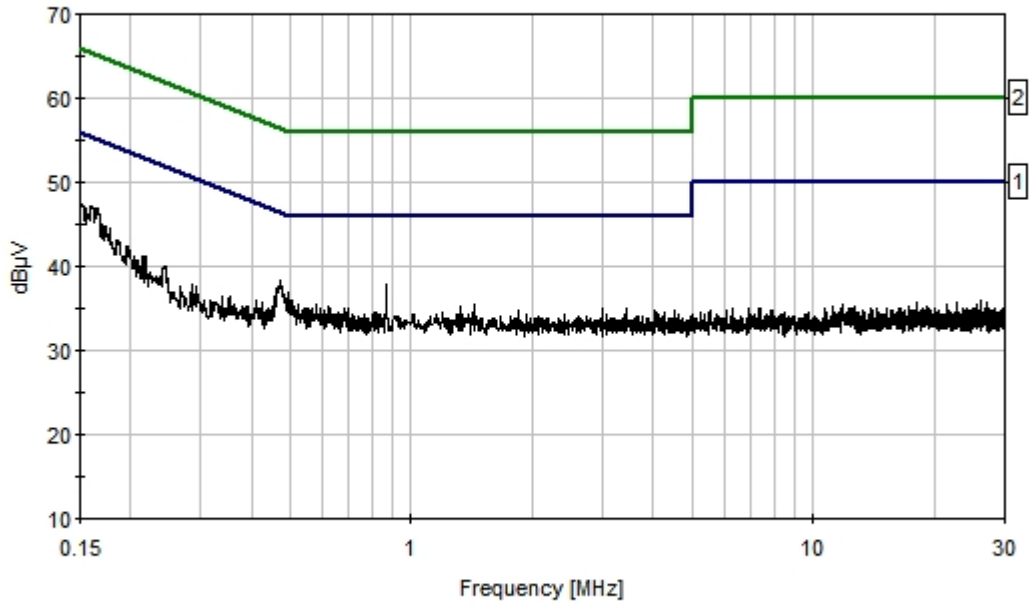
**Transducer Legend:**

T1=cable5 test T3=LISN 1	T2=HP 11947A Transient Limiter
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**Measurement Data:** Reading listed by margin. Test Lead: Line 1

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBµV	Spec dBµV	Margin dB	Polar Ant
1	866.292k	27.3	+0.1	+10.0	+0.5	+0.0	37.9	46.0	-8.1	Line	
2	472.877k	27.5	+0.1	+10.0	+0.7	+0.0	38.3	46.5	-8.2	Line	
3	150.000k	36.3	+0.0	+9.9	+1.1	+0.0	47.3	56.0	-8.7	Line	
4	1.430M	24.8	+0.1	+10.0	+0.6	+0.0	35.5	46.0	-10.5	Line	
5	26.190M	24.5	+0.4	+10.1	+1.0	+0.0	36.0	50.0	-14.0	Line	
6	18.121M	24.3	+0.3	+10.1	+0.9	+0.0	35.6	50.0	-14.4	Line	
7	11.824M	24.3	+0.2	+10.0	+0.9	+0.0	35.4	50.0	-14.6	Line	

EMCE Engineering Date: 6/3/2007 Time: 3:11:54 PM SocketMobile, Inc. WO#: 2725  
EN55022 B COND [AVE] Test Lead: Line 1 120V 60Hz Sequence#: 1



— Sweep Data    — 1 - EN55022 B COND [AVE]    — 2 - EN55022 B COND [QP]

Test Location: EMCE Engineering •44366 S. Grimmer Blvd • Fremont, CA 94538 • 510-490-4307

Customer: **SocketMobile, Inc.**  
 Specification: **EN55022 B COND [AVE]**  
 Work Order #: **2725**  
 Test Type: **Conducted Emissions**  
 Equipment: **CF WLAN**  
 Manufacturer: **SocketMobile**  
 Model: **Go WiFi! P500**  
 S/N:

Date: 6/3/2007  
 Time: 3:16:08 PM  
 Sequence#: 2  
 Tested By: Bob Cole  
 120V 60Hz

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
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**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
CF WLAN*	SocketMobile	Go WiFi! P500	

**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

RBW = 100 kHz VBW = 100 kHz QPA = 9 kHz  Peak measurements meet Average Limits
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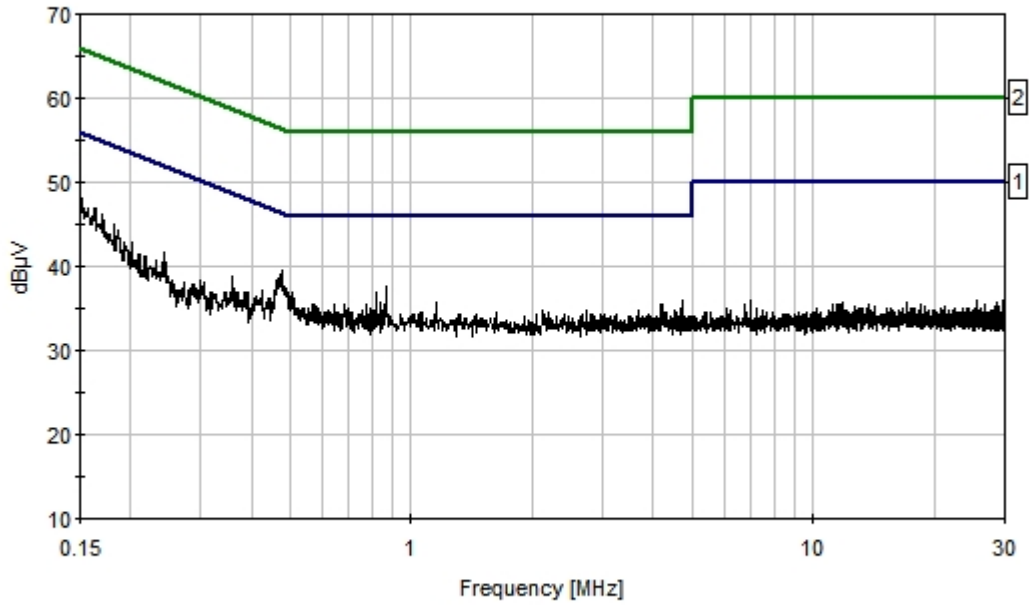
**Transducer Legend:**

T1=cable5 test T3=LISN 1	T2=HP 11947A Transient Limiter
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**Measurement Data:** Reading listed by margin. Test Lead: Line 2

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	Dist dB	Table	Corr dBµV	Spec dBµV	Margin dB	Polar Ant
1	475.058k	28.7	+0.1	+10.0	+0.7	+0.0		39.5	46.4	-6.9	Line
2	151.454k	37.1	+0.0	+9.9	+1.1	+0.0		48.1	55.9	-7.8	Line
3	867.019k	27.0	+0.1	+10.0	+0.5	+0.0		37.6	46.0	-8.4	Line
4	816.842k	26.2	+0.1	+10.0	+0.6	+0.0		36.9	46.0	-9.1	Line
5	4.756M	25.0	+0.2	+10.0	+0.7	+0.0		35.9	46.0	-10.1	Line
6	6.995M	24.9	+0.2	+10.0	+0.8	+0.0		35.9	50.0	-14.1	Line
7	25.656M	24.4	+0.4	+10.1	+1.0	+0.0		35.9	50.0	-14.1	Line
8	17.112M	24.4	+0.3	+10.0	+0.9	+0.0		35.6	50.0	-14.4	Line

EMCE Engineering Date: 6/3/2007 Time: 3:16:08 PM SocketMobile, Inc. WO#: 2725  
EN55022 B COND [AVE] Test Lead: Line 2 120V 60Hz Sequence#: 2



— Sweep Data    — 1 - EN55022 B COND [AVE]    — 2 - EN55022 B COND [QP]

## 7.0 TEST EQUIPMENT

Antenna Conducted Measurements:

Equipment	Type	Manufacturer	Calibration Due Date
Spectrum Analyzer	8593EM	Hewlett-Packard	2/1/08
Oscilloscope	TDS820	Tektronix	2/1/08
RF Power Meter	437B	Hewlett Packard	4/15/08
30 dB Attenuator		HP	11/10/08
Coaxial cable	SMA Male – Reverse SMA Male (Length = 20 cm)	EMCE	10/1/08

Spurious RF radiated emissions:

Equipment	Type	Manufacturer	Calibration Due Date
EMI Analyzer System	84125B	Hewlett-Packard	2/1/08
Spectrum Analyzer	8566B	Hewlett-Packard	4/15/08
Pre-Amp	83051A	Hewlett-Packard	2/1/08
Pre-Amp	83017A	Hewlett-Packard	2/1/08
High Pass Filter	9701	CMT	2/1/08
Horn Antenna	SAS 200/571	AH Systems	6/15/08
Cable	N – N (3 Meters)	EMCE	11/22/07

Note: The HP 84125B EMC Analyzer System is calibrated as a system, including the analyzer, pre-amps, filters, and cable.

EN 55022 (AC powerline conducted emissions)

Equipment	Type	Manufacturer	Calibration Due Date
Spectrum analyzer	8568B	Hewlett-Packard	2/1/08
LISN	3810/2	EMCO	10/1/08
Coaxial cable	N Type – BNC (5 Meters)	Own	10/1/08