



# Test Report

Product Name	Mobile Clinical Assistant C5
Model No.	CFT-001
FCC ID	MSQCFT01
Transmitter Module.	Intel / WM3945ABG

Applicant	ASUSTeK COMPUTER INC.
Address	4FL., No. 150, Li-Te Rd., Peitou, Taipei, Taiwan, R.O.C.

Date of Receipt	Apr. 17, 2007
Issued Date	May 17, 2007
Report No.	074L109-RFUSP05V01

The test results relate only to the samples tested.  
 The test report shall not be reproduced except in full without the written approval of Quietek Corporation.  
 This report must not be used to claim product endorsement by NVLAP any agency of the U.S. Government

# Test Report Certification

Issued Date: May 17, 2007

Report No.: 074L109-RFUSP05V01



Product Name	Mobile Clinical Assistant C5
Applicant	ASUSTeK COMPUTER INC.
Address	4FL., No. 150, Li-Te Rd., Peitou, Taipei, Taiwan, R.O.C.
Manufacturer	ASUSTeK COMPUTER INC.
Model No.	CFT-001
FCC ID.	MSQCFT01
Rated Voltage	AC 120V/60Hz
Working Voltage	AC 120V/60Hz
Trade Name	Motion Computing Incorporated
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2005 ANSI C63.4: 2003
Test Result	Complied



Test results relate only to the samples tested.

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This report must not be used to claim product endorsement by NVLAP any agency of the U.S. Government

Documented By : Rita Huang  
( Engineering Adm. Specialist / Rita Huang )



Tested By : Tim Sung  
( Engineer / Tim Sung )



Approved By : Gene Chang  
( President / Gene Chang )

0914

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Attachment 1: EUT Test Photographs		
Attachment 2: EUT Detailed Photographs		

## 1. GENERAL INFORMATION

### 1.1. EUT Description

Product Name	Mobile Clinical Assistant C5
Trade Name	Motion Computing Incorporated
Model No.	CFT-001
FCC ID	MSQCFT01
Frequency Range	2412MHz - 2462MHz, 5150-5250MHz, 5745-5825MHz
Number of Channels	11 in 2.4GHz band, 5 in 5GHz band
Channel Separation	5MHz in 2.4GHz band, 20MHz in 5GHz band
Channel Control	Auto
Data Rate	802.11b – 1, 2, 5.5, 11Mbps
	802.11a/g – 6, 9, 12, 18, 24, 36, 48, 54Mbps
Type of Modulation	DSSS/ OFDM
Antenna Type	Connector
Antenna Gain	Refer to the table “Antenna List”
Power Adapter	MFR: DELTA, M/N: ADP-50HH REV.B Cable Out: Non-Shielded, 1.8m with one ferrite core bonded. Power Cord: Shielded, 1.8m

#### Antenna List (WLAN)

No.	Manufacturer	Part No.	Peak Gain
1	Yageo	CAN4313580012501B (Main) CAN4313580022501B (Aux)	1.72 dBi for 2.4 GHz 2.91 dBi for 5.15-5.35 GHz 1.14 dBi for 5.725-5.850 GHz

## Frequency of Each Channel (2.4GHz):

Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 1:	2412 MHz	Channel 5:	2432 MHz	Channel 9:	2452 MHz
Channel 2:	2417 MHz	Channel 6:	2437 MHz	Channel 10:	2457 MHz
Channel 3:	2422 MHz	Channel 7:	2442 MHz	Channel 11:	2462 MHz
Channel 4:	2427 MHz	Channel 8:	2447 MHz		

## Frequency of Each Channel (5GHz):

Channel	Frequency	Channel	Frequency
Channel 1:	5745 MHz	Channel 5:	5825 MHz
Channel 2:	5765 MHz		
Channel 3:	5785 MHz		
Channel 4:	5805 MHz		

## Note:

1. This device is a Mobile Clinical Assistant C5 with a built-in 2.4GHz and 5GHz transceiver.
2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
3. Lowest and highest data rates are tested in each mode. Only worst case is shown in the report. (802.11b is 1Mbps, 802.11g and 802.11a are 6Mbps)
4. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.
5. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

## 1.2. Operational Description

EUT is a Mobile Clinical Assistant C5 with a built-in 2.4GHz and 5GHz transceiver. There are 11 channels in 2412 – 2462MHz and 5 channels in 5745 – 5825MHz. The channels are separated by 5MHz in 2.4GHz band and 20MHz in 5GHz band. This device supports the data rates of 1, 2, 5.5, 11Mbps in 802.11b mode and 6, 9, 12, 18, 24, 36, 48, 54Mbps in 802.11a/g mode. The signals are modulated by DSSS in 802.11b mode and OFDM in 802.11a/g mode. The antennas are Connector and use diversity to improve the receiving sensitivity.

This Mobile Clinical Assistant C5, complied with IEEE 802.11b, IEEE 802.11g, and IEEE 802.11a, is a high-efficiency Wireless LAN adapter. It allows your computer to connect to a wireless network and to share resources, such as files or printers without network wires. Wired Equivalent Protection (WEP) algorithm is used. In addition, its standard compliance ensures that it can communicate with any IEEE 802.11b, IEEE 802.11g, and IEEE 802.11a network.

Test Mode	Mode 1: Transmitter 802.11a-Intel:WM3945ABG
	Mode 2: Transmitter 802.11b-Intel:WM3945ABG
	Mode 3: Transmitter 802.11g-Intel:WM3945ABG

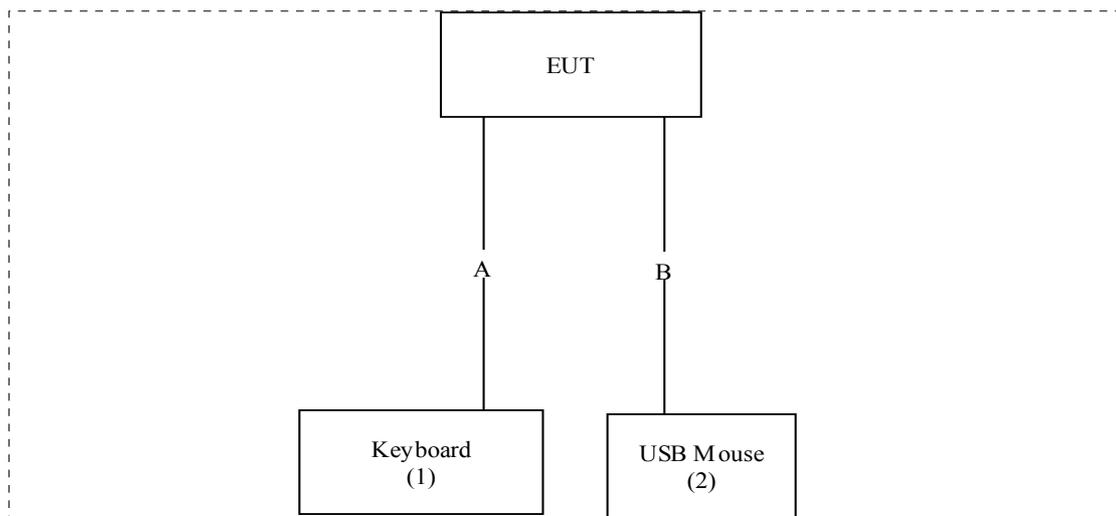
### 1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	Power Cord
(1) Keyboard	BTC	5200U	N/A	N/A
(2) USB Mouse	Logitech	M-BE58	HCA30103100	N/A

Signal Cable Type	Signal cable Description
A. Keyboard Cable	Shielded, 1.8m
B. Mouse Cable	Shielded, 1.8m

### 1.4. Configuration of tested System



### 1.5. EUT Exercise Software

- (1) Setup the EUT as shown in Section 1.4
- (2) Execute CRTU Version 4.0.18.0000 on the notebook.
- (3) Configure the test mode, the test channel, and the data rate.
- (4) Press “OK” to start the continuous transmission.
- (5) Verify that the EUT works properly.

**1.6. Test Facility**

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

Site Description: File on  
 Federal Communications Commission  
 FCC Engineering Laboratory  
 7435 Oakland Mills Road  
 Columbia, MD 21046  
 Reference 31040/SIT1300F2



Accreditation on NVLAP  
 NVLAP Lab Code: 200533-0



Site Name: Quietek Corporation  
 Site Address: No. 5-22, Ruei-Shu Valley, Ruei-Ping Tsuen,  
 Lin-Kou Shiang, Taipei,  
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 E-Mail : [service@quietek.com](mailto:service@quietek.com)



## 2. Conducted Emission

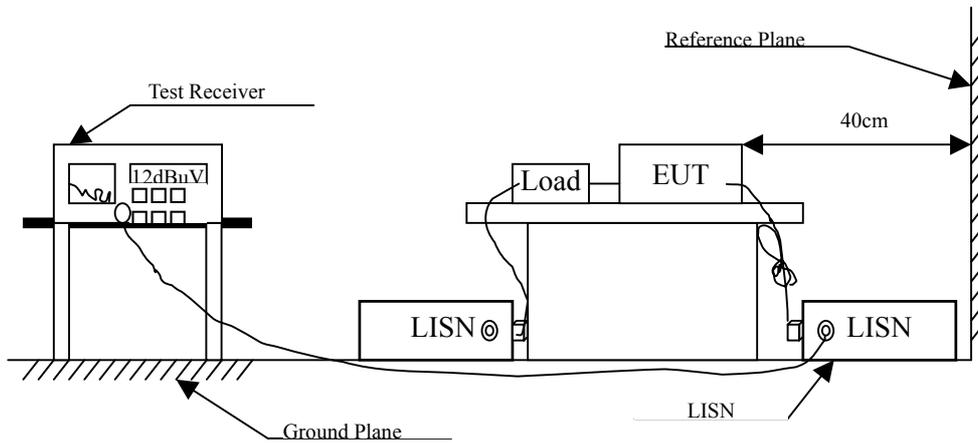
### 2.1. Test Equipment

The following test equipment are used during the conducted emission test:

Item	Instrument	Manufacturer	Type No./Serial No	Last Cal.	Remark
1	Test Receiver	R & S	ESCS 30/825442/17	May, 2007	
2	L.I.S.N.	R & S	ESH3-Z5/825016/6	May, 2007	EUT
3	L.I.S.N.	Kyoritsu	KNW-407/8-1420-3	May, 2007	Peripherals
4	Pulse Limiter	R & S	ESH3-Z2	May, 2007	
5	No.1 Shielded Room			N/A	

Note: All equipments are calibrated every one year.

### 2.2. Test Setup



### 2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit		
Frequency MHz	Limits	
	QP	AV
0.15 - 0.50	66-56 <sub>(註)</sub>	56-46 <sub>(註)</sub>
0.50-5.0	56	46
5.0 - 30	60	50

## 2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

## 2.5. Uncertainty

± 2.26 dB

## 2.6. Test Result of Conducted Emission

Product : Mobile Clinical Assistant C5  
 Test Item : Conducted Emission Test  
 Power Line : Line 1  
 Test Mode : Mode 1: Transmitter 802.11a-Intel:WM3945ABG (5785MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
<b>LINE 1</b>					
<b>Quasi-Peak</b>					
0.205	0.202	54.660	54.862	-9.567	64.429
0.275	0.211	47.570	47.782	-14.647	62.429
0.345	0.214	39.510	39.724	-20.705	60.429
0.415	0.215	37.760	37.975	-20.454	58.429
0.485	0.216	26.590	26.806	-29.623	56.429
0.545	0.217	32.300	32.517	-23.483	56.000
<b>Average</b>					
0.205	0.202	36.060	36.262	-18.167	54.429
0.275	0.211	32.380	32.592	-19.837	52.429
0.345	0.214	26.060	26.274	-24.155	50.429
0.415	0.215	24.230	24.445	-23.984	48.429
0.485	0.216	19.180	19.396	-27.033	46.429
0.545	0.217	20.290	20.507	-25.493	46.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Mobile Clinical Assistant C5  
 Test Item : Conducted Emission Test  
 Power Line : Line 2  
 Test Mode : Mode 1: Transmitter 802.11a-Intel:WM3945ABG (5785MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
<b>LINE 2</b>					
<b>Quasi-Peak</b>					
0.205	0.202	51.860	52.062	-12.367	64.429
0.275	0.203	47.610	47.813	-14.616	62.429
0.345	0.214	39.350	39.564	-20.865	60.429
0.415	0.215	38.620	38.835	-19.594	58.429
0.485	0.216	30.860	31.076	-25.353	56.429
0.545	0.217	34.800	35.017	-20.983	56.000
<b>Average</b>					
0.205	0.202	35.190	35.392	-19.037	54.429
0.275	0.203	27.220	27.423	-25.006	52.429
0.345	0.214	24.750	24.964	-25.465	50.429
0.415	0.215	25.050	25.265	-23.164	48.429
0.485	0.216	19.430	19.646	-26.783	46.429
0.545	0.217	20.810	21.027	-24.973	46.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Mobile Clinical Assistant C5  
 Test Item : Conducted Emission Test  
 Power Line : Line 1  
 Test Mode : Mode 2: Transmitter 802.11b-Intel:WM3945ABG (2437MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
<b>LINE 1</b>					
<b>Quasi-Peak</b>					
0.205	0.202	55.290	55.492	-8.937	64.429
0.270	0.210	46.740	46.950	-15.621	62.571
0.340	0.214	40.050	40.264	-20.307	60.571
0.410	0.215	40.780	40.995	-17.576	58.571
0.480	0.216	33.010	33.226	-23.345	56.571
0.550	0.217	33.760	33.977	-22.023	56.000
<b>Average</b>					
0.205	0.202	35.330	35.532	-18.897	54.429
0.270	0.210	28.400	28.610	-23.961	52.571
0.340	0.214	24.550	24.764	-25.807	50.571
0.410	0.215	25.860	26.075	-22.496	48.571
0.480	0.216	21.690	21.906	-24.665	46.571
0.550	0.217	21.580	21.797	-24.203	46.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "█" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Mobile Clinical Assistant C5  
 Test Item : Conducted Emission Test  
 Power Line : Line 2  
 Test Mode : Mode 2: Transmitter 802.11b-Intel:WM3945ABG (2437MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
<b>LINE 2</b>					
<b>Quasi-Peak</b>					
0.203	0.202	53.190	53.392	-11.094	64.486
0.273	0.203	48.690	48.893	-13.593	62.486
0.343	0.214	39.650	39.864	-20.622	60.486
0.412	0.215	39.200	39.415	-19.099	58.514
0.482	0.216	30.860	31.076	-25.438	56.514
0.542	0.217	32.360	32.577	-23.423	56.000
<b>Average</b>					
0.203	0.202	34.190	34.392	-20.094	54.486
0.273	0.203	30.480	30.683	-21.803	52.486
0.343	0.214	24.690	24.904	-25.582	50.486
0.412	0.215	24.720	24.935	-23.579	48.514
0.482	0.216	20.630	20.846	-25.668	46.514
0.542	0.217	19.590	19.807	-26.193	46.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Mobile Clinical Assistant C5  
 Test Item : Conducted Emission Test  
 Power Line : Line 1  
 Test Mode : Mode 3: Transmitter 802.11g-Intel:WM3945ABG (2437MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
<b>LINE 1</b>					
<b>Quasi-Peak</b>					
0.205	0.202	54.080	54.282	-10.147	64.429
0.275	0.211	47.450	47.662	-14.767	62.429
0.345	0.214	37.350	37.564	-22.865	60.429
0.415	0.215	36.580	36.795	-21.634	58.429
0.475	0.216	30.030	30.246	-26.468	56.714
0.545	0.217	35.480	35.697	-20.303	56.000
<b>Average</b>					
0.205	0.202	34.860	35.062	-19.367	54.429
0.275	0.211	29.820	30.032	-22.397	52.429
0.345	0.214	22.880	23.094	-27.335	50.429
0.415	0.215	22.650	22.865	-25.564	48.429
0.475	0.216	18.840	19.056	-27.658	46.714
0.545	0.217	22.630	22.847	-23.153	46.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "█" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Mobile Clinical Assistant C5  
 Test Item : Conducted Emission Test  
 Power Line : Line 2  
 Test Mode : Mode 3: Transmitter 802.11g-Intel:WM3945ABG (2437MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
<b>LINE 2</b>					
<b>Quasi-Peak</b>					
0.205	0.202	53.760	53.962	-10.467	64.429
0.275	0.203	47.410	47.613	-14.816	62.429
0.345	0.214	37.270	37.484	-22.945	60.429
0.405	0.215	32.080	32.295	-26.419	58.714
0.475	0.216	29.890	30.106	-26.608	56.714
0.545	0.217	35.360	35.577	-20.423	56.000
<b>Average</b>					
0.205	0.202	34.860	35.062	-19.367	54.429
0.275	0.203	29.970	30.173	-22.256	52.429
0.345	0.214	22.960	23.174	-27.255	50.429
0.405	0.215	18.390	18.605	-30.109	48.714
0.475	0.216	18.980	19.196	-27.518	46.714
0.545	0.217	22.550	22.767	-23.233	46.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "█" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

### 3. Peak Power Output

#### 3.1. Test Equipment

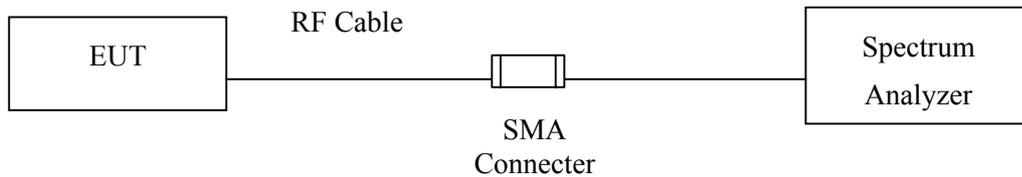
The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2007

Note: 1. All equipments are calibrated every one year.  
 2. The test instruments marked by “X” are used to measure the final test results.

#### 3.2. Test Setup

##### Conduction Power Measurement



#### 3.3. Limits

The maximum peak power shall be less 1 Watt.

#### 3.4. Uncertainty

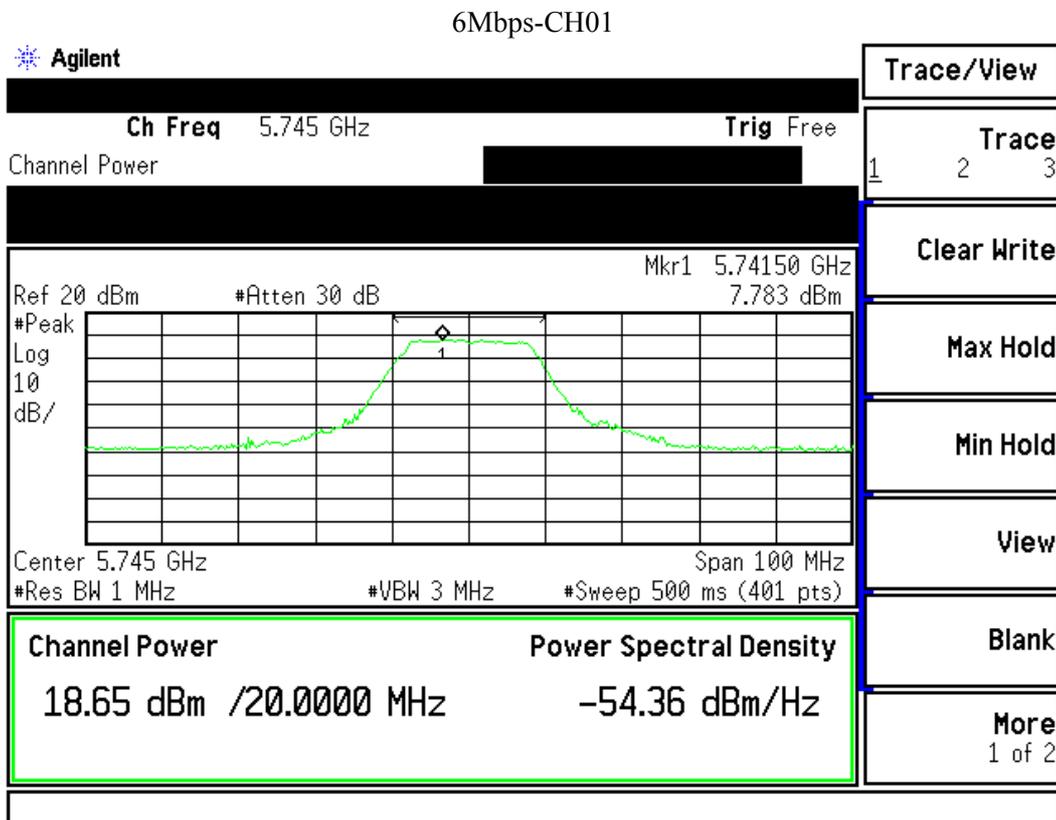
± 1.27 dB

### 3.5. Test Result of Peak Power Output

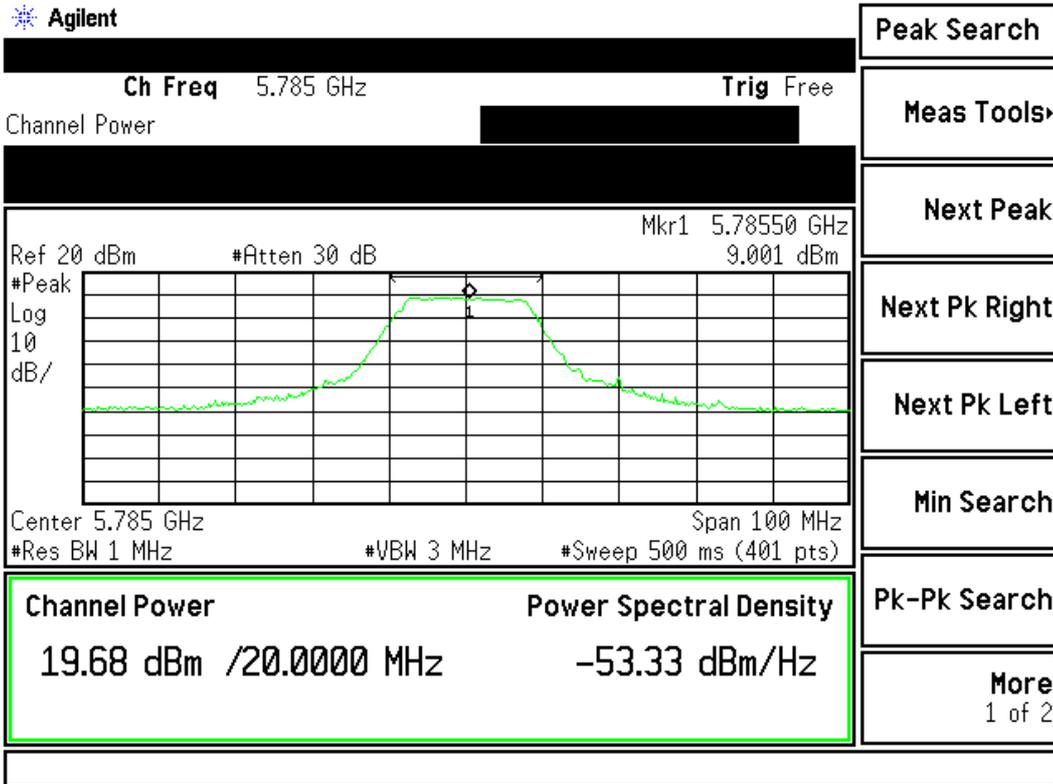
Product : Mobile Clinical Assistant C5  
 Test Item : Peak Power Output Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmitter 802.11a-Intel:WM3945ABG

**Data Speed: 6Mbps**

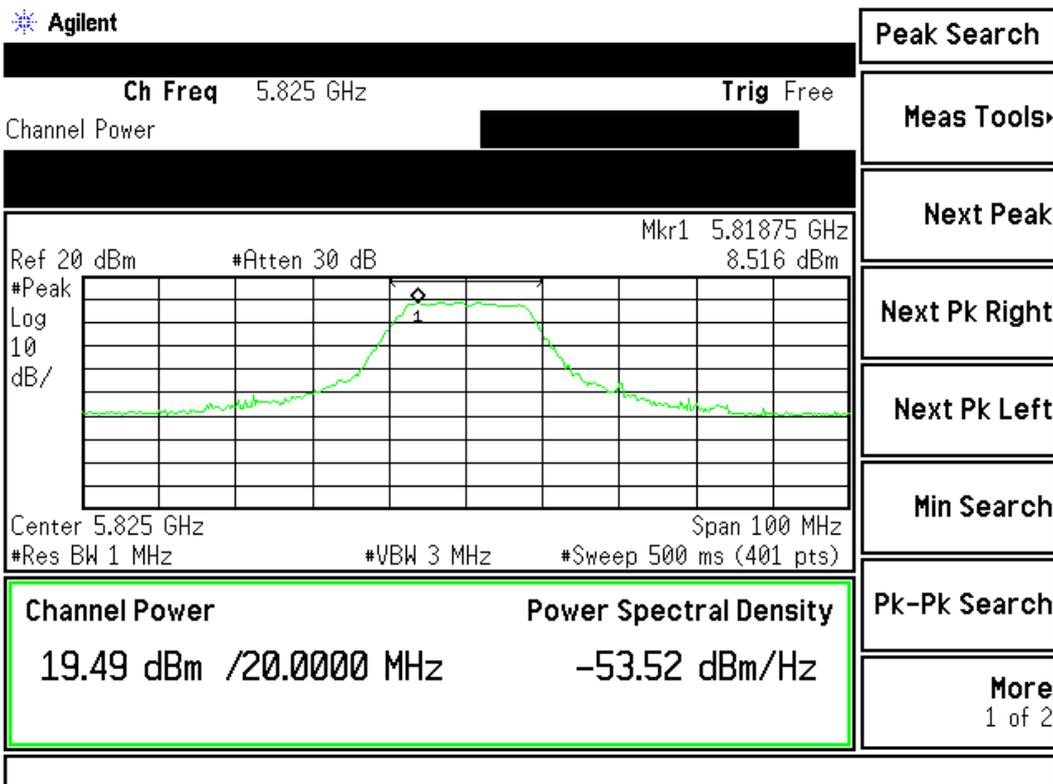
Channel No.	Frequency (MHz)	Measurement	Required Limit	Result
1	5745.00	18.65 dBm	1Watt= 30 dBm	Pass
3	5785.00	19.68 dBm	1Watt= 30 dBm	Pass
5	5825.00	19.49dBm	1Watt= 30 dBm	Pass



6Mbps-CH 3



6Mbps-CH 5

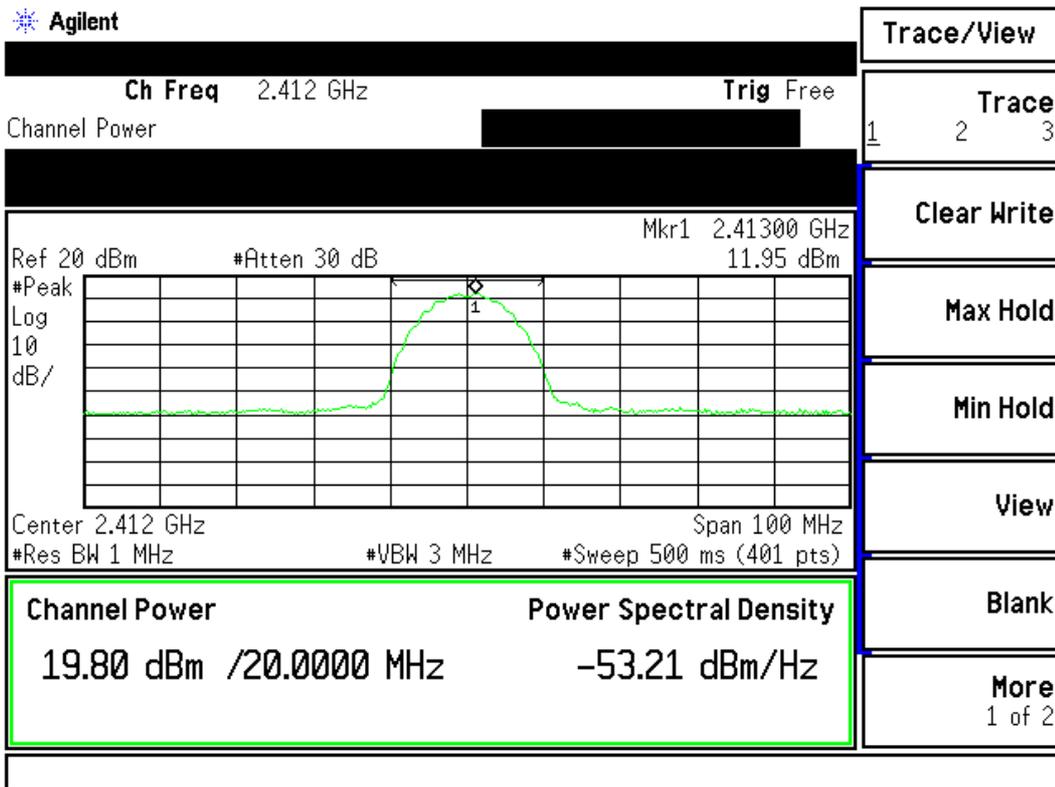


Product : Mobile Clinical Assistant C5  
 Test Item : Peak Power Output Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11b-Intel:WM3945ABG

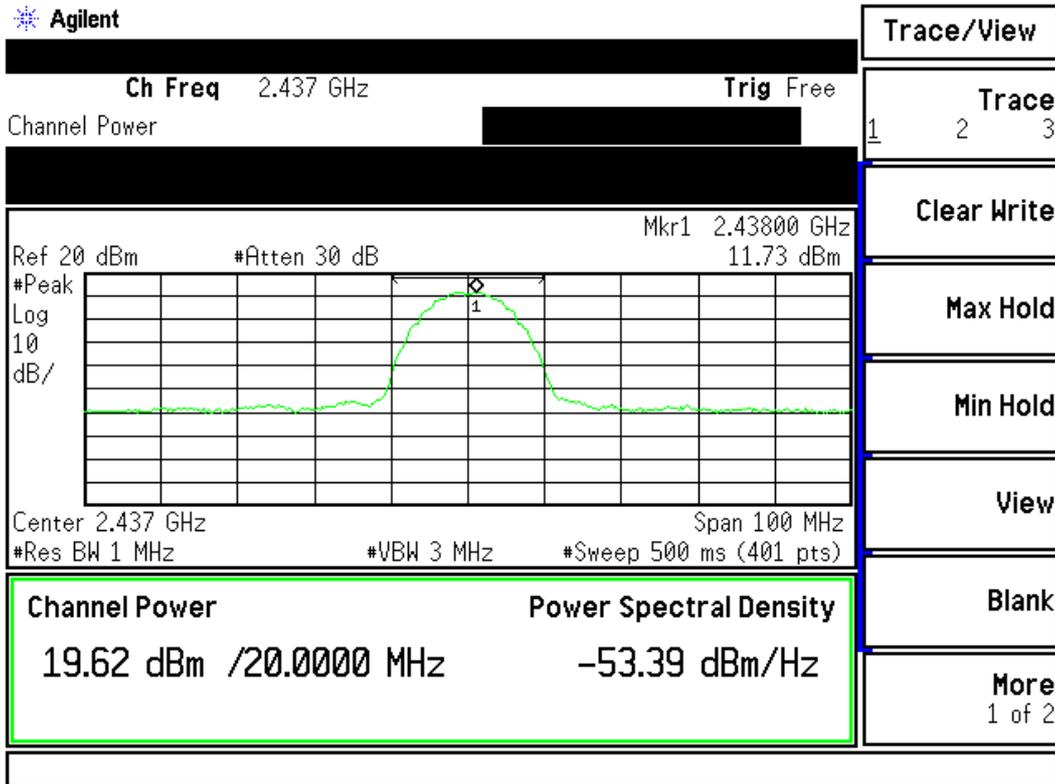
**Data Speed: 1Mbps**

Channel No.	Frequency (MHz)	Measurement	Required Limit	Result
1	2412.00	19.80 dBm	1Watt= 30 dBm	Pass
6	2437.00	19.62 dBm	1Watt= 30 dBm	Pass
11	2462.00	19.63dBm	1Watt= 30 dBm	Pass

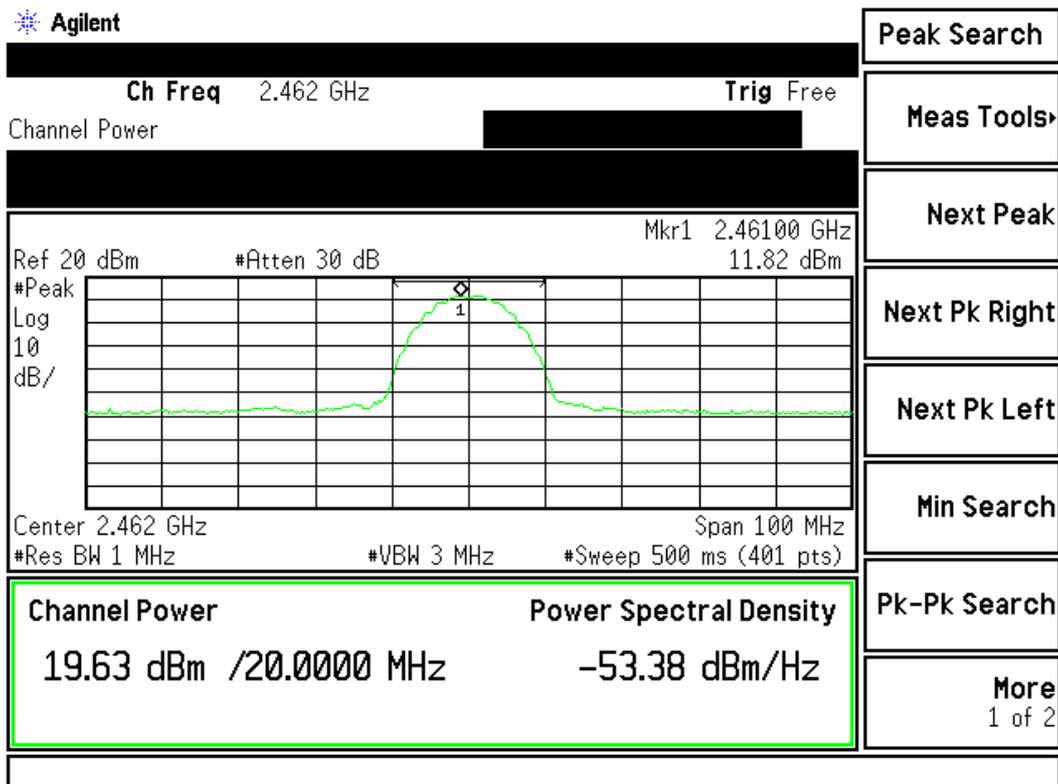
1Mbps-CH01



1Mbps-CH 06



1Mbps-CH 11

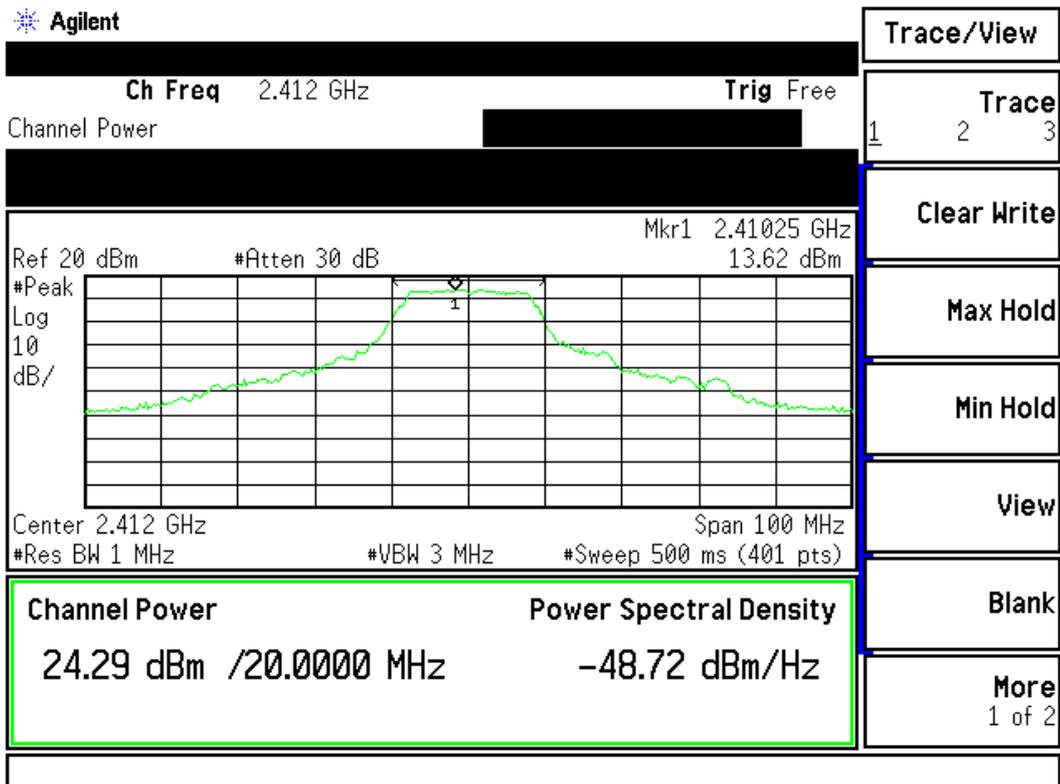


Product : Mobile Clinical Assistant C5  
 Test Item : Peak Power Output Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmitter 802.11g-Intel:WM3945ABG

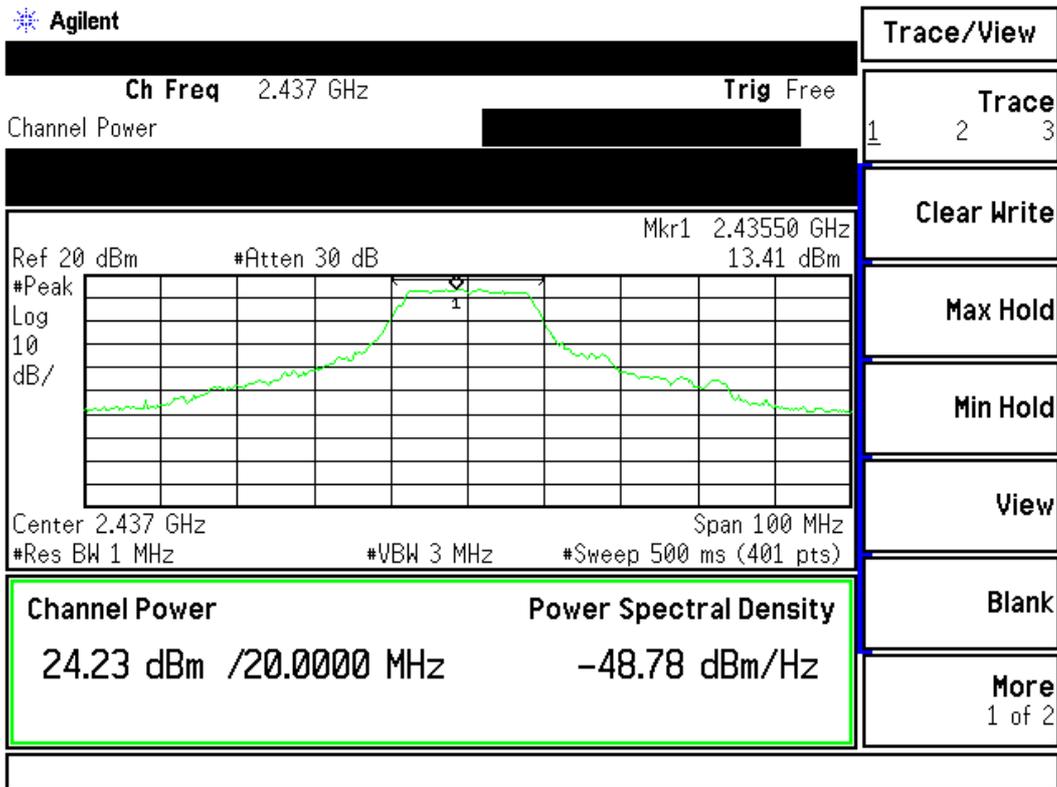
**Data Speed: 6Mbps**

Channel No.	Frequency (MHz)	Measurement	Required Limit	Result
1	2412.00	24.29 dBm	1 Watt= 30 dBm	Pass
6	2437.00	24.23 dBm	1 Watt= 30 dBm	Pass
11	2462.00	23.86 dBm	1 Watt= 30 dBm	Pass

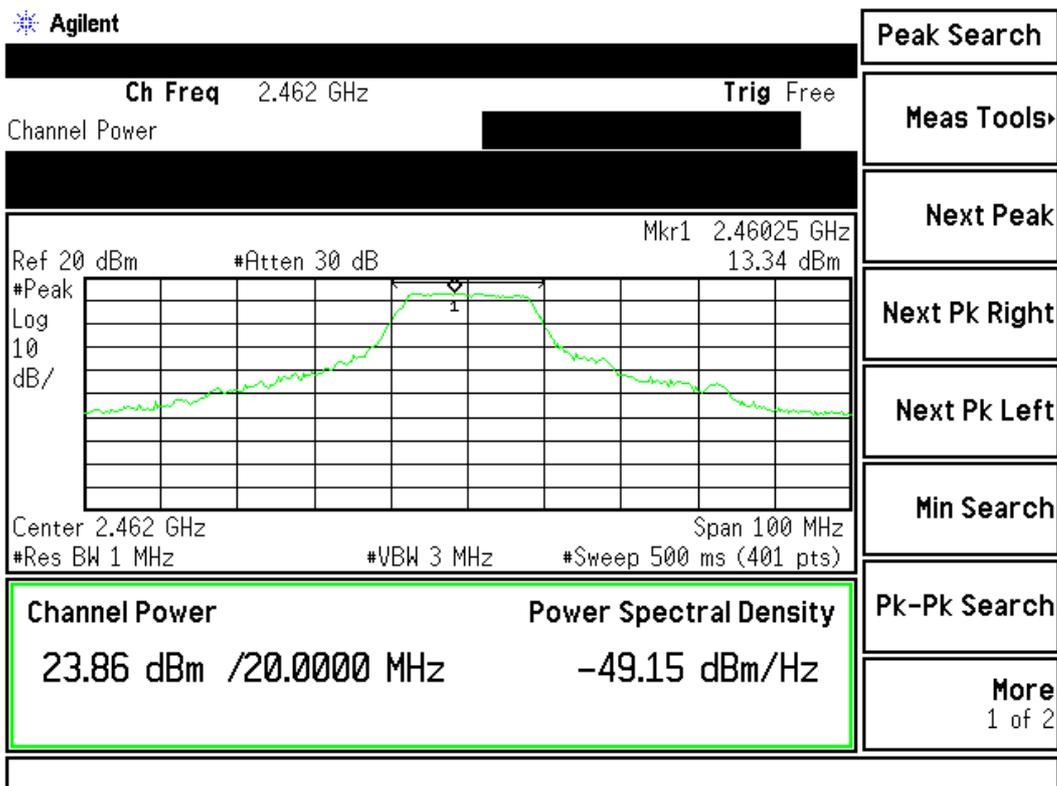
6Mbps-CH01



6Mbps-CH 06



6Mbps-CH11



## 4. Radiated Emission

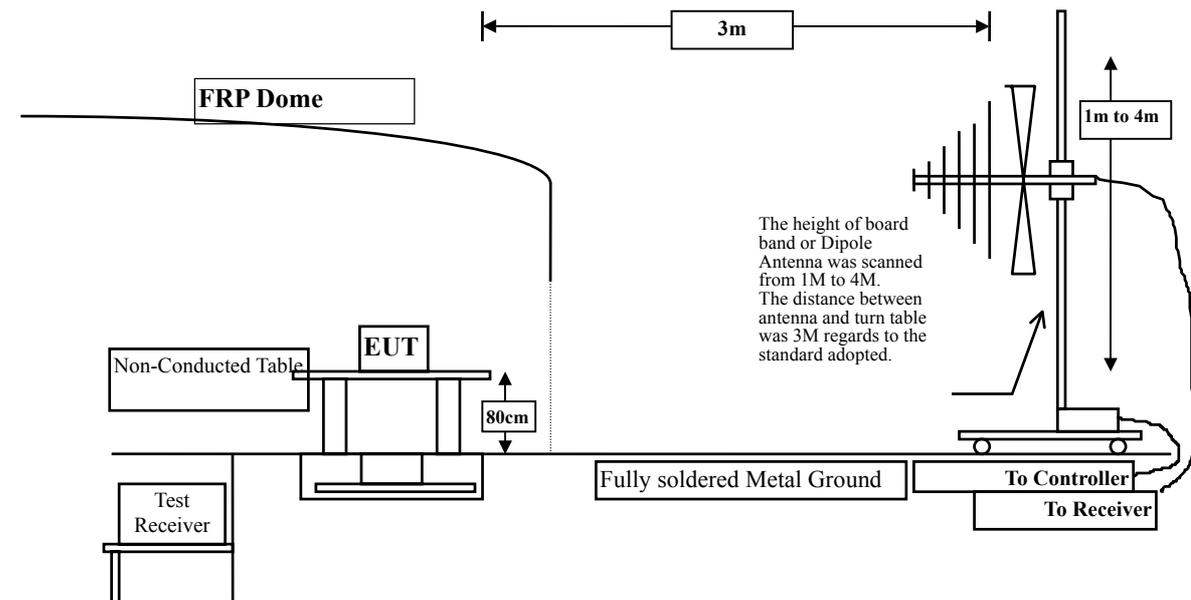
### 4.1. Test Equipment

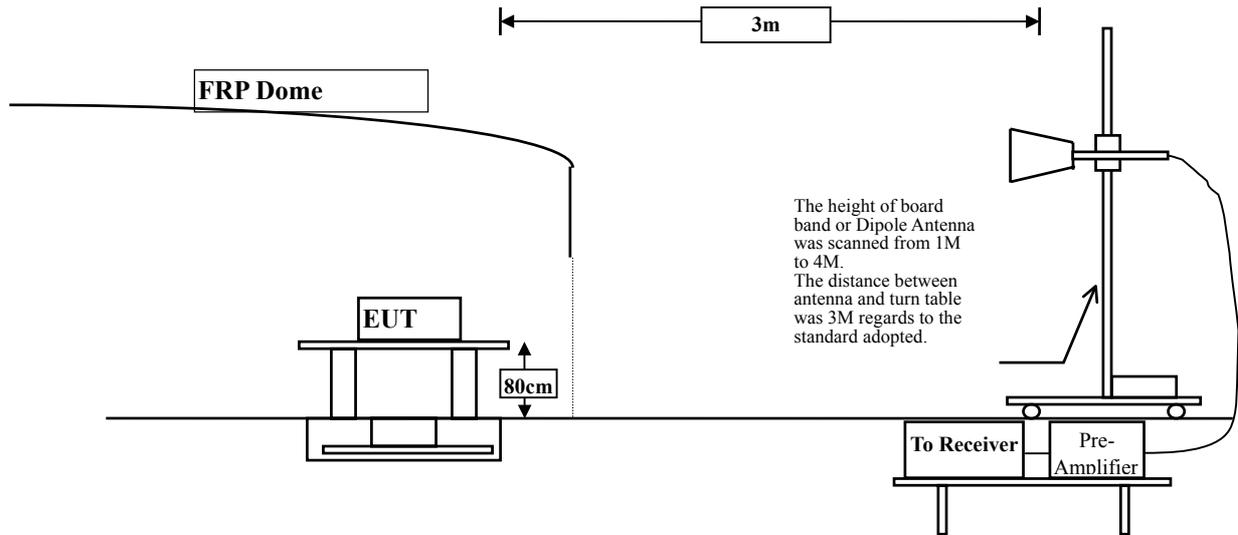
The following test equipment are used during the radiated emission test:

Test Site	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Site # 1	Test Receiver	R & S	ESCS 30 / 825442/14	May, 2007
	Spectrum Analyzer	Advantest	R3261C / 71720140	May, 2007
	Pre-Amplifier	HP	8447D/3307A01812	May, 2007
	Bilog Antenna	Chase	CBL6112B / 12452	Sep., 2006
	Horn Antenna	EM	EM6917 / 103325	May, 2007
Site # 2	Test Receiver	R & S	ESCS 30 / 825442/17	May, 2007
	Spectrum Analyzer	Advantest	R3261C / 71720609	May, 2007
	Pre-Amplifier	HP	8447D/3307A01814	May, 2007
	Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2006
	Horn Antenna	EM	EM6917 / 103325	May, 2007
Site # 3	X Test Receiver	R & S	ESI 26 / 838786 / 004	May, 2007
	X Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2007
	X Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2007
	X Bilog Antenna	SCHAFFNER	CBL6112B / 2697	May, 2007
	X Horn Antenna	ETS	3115 / 0005-6160	July, 2006
	X Pre-Amplifier	QTK	QTK-AMP-01 / 0001	July, 2006

- Note:
1. All equipments are calibrated every one year.
  2. The test instruments marked by “X” are used to measure the final test results.

### 4.2. Test Setup





### 4.3. Limits

#### ➤ General Radiated Emission Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209(a) Limits		
Frequency MHz	uV/m @3m	dBuV/m@3m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

- Remarks :
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
  2. In the Above Table, the tighter limit applies at the band edges.
  3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

#### 4.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated measurement.

The additional latch filter below 1GHz was used to measure the level of harmonics radiated emission during field strength of harmonics measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 kHz, above 1GHz are 1 MHz. The frequency range from 30MHz to 10th harmonics is checked.

#### 4.5. Uncertainty

± 3.8 dB below 1GHz

± 3.9 dB above 1GHz

#### 4.6. Test Result of Radiated Emission

Product : Mobile Clinical Assistant C5  
 Test Item : Harmonic Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmitter 802.11a-Intel:WM3945ABG (5745 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
<b>Peak Detector</b>					
11490.000	15.526	35.996	51.521	-22.479	74.000
17235.000	14.291	35.516	49.807	-24.193	74.000
<b>Average Detector</b>					
--					
<b>Vertical</b>					
<b>Peak Detector</b>					
11490.000	15.526	36.360	51.885	-22.115	74.000
17235.000	14.291	35.884	50.175	-23.825	74.000
<b>Average Detector</b>					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz.
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz
4. Measurement Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Mobile Clinical Assistant C5  
 Test Item : Harmonic Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmitter 802.11a-Intel:WM3945ABG (5785MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
<b>Peak Detector</b>					
11570.000	14.910	35.897	50.806	-23.194	74.000
17355.000	14.144	36.742	50.887	-23.113	74.000
<b>Average Detector</b>					
--					
<b>Vertical</b>					
<b>Peak Detector</b>					
11570.000	14.910	36.086	50.995	-23.005	74.000
17355.000	14.144	35.791	49.936	-24.064	74.000
<b>Average Detector</b>					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz.
4. Measurement Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Mobile Clinical Assistant C5  
 Test Item : Harmonic Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmitter 802.11a-Intel:WM3945ABG (5825 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
<b>Peak Detector</b>					
11650.000	14.691	36.403	51.093	-22.907	74.000
17475.000	13.864	36.841	50.705	-23.295	74.000
<b>Average Detector</b>					
--					
<b>Vertical</b>					
<b>Peak Detector</b>					
11650.000	14.691	36.074	50.764	-23.236	74.000
17475.000	13.864	36.759	50.623	-23.377	74.000
<b>Average Detector</b>					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz.
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz.
4. Measurement Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Mobile Clinical Assistant C5  
 Test Item : Harmonic Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11b-Intel:WM3945ABG (2412MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
<b>Peak Detector</b>					
4824.000	3.723	40.038	43.761	-30.239	74.000
7236.000	9.439	37.617	47.055	-26.945	74.000
9648.000	11.829	35.169	46.998	-27.002	74.000
<b>Average Detector</b>					
--					
<b>Vertical</b>					
<b>Peak Detector</b>					
4824.000	3.723	38.804	42.527	-31.473	74.000
7236.000	9.439	36.036	45.474	-28.526	74.000
9648.000	11.829	35.301	47.130	-26.870	74.000
<b>Average Detector</b>					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz.
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz.
4. Measurement Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Mobile Clinical Assistant C5  
 Test Item : Harmonic Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11b-Intel:WM3945ABG (2437MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
<b>Peak Detector</b>					
4874.000	3.893	37.468	41.360	-32.640	74.000
7311.000	9.624	35.651	45.275	-28.725	74.000
9748.000	11.805	35.200	47.006	-26.994	74.000
<b>Average Detector</b>					
--					
<b>Vertical</b>					
<b>Peak Detector</b>					
4874.000	3.893	37.031	40.923	-33.077	74.000
7311.000	9.624	35.620	45.244	-28.756	74.000
9748.000	11.805	35.561	47.367	-26.633	74.000
<b>Average Detector</b>					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz.
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz.
4. Measurement Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Mobile Clinical Assistant C5  
 Test Item : Harmonic Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11b-Intel:WM3945ABG (2462MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
<b>Peak Detector</b>					
4924.000	4.075	37.529	41.603	-32.397	74.000
7386.000	9.812	36.107	45.919	-28.081	74.000
9848.000	11.819	35.892	47.711	-26.289	74.000
<b>Average Detector</b>					
--					
<b>Vertical</b>					
<b>Peak Detector</b>					
4924.000	4.075	37.376	41.450	-32.550	74.000
7386.000	9.812	35.988	45.800	-28.200	74.000
9848.000	11.819	36.855	48.674	-25.326	74.000
<b>Average Detector</b>					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz.
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz.
4. Measurement Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Mobile Clinical Assistant C5  
 Test Item : Harmonic Radiated Emission Data  
 Test Site : No.3OATS  
 Test Mode : Mode 3: Transmitter 802.11g-Intel:WM3945ABG (2412 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
<b>Peak Detector</b>					
4824.000	3.723	36.565	40.288	-33.712	74.000
7236.000	9.439	36.239	45.677	-28.323	74.000
9648.000	11.829	35.634	47.463	-26.537	74.000
<b>Average Detector</b>					
--					
<b>Vertical</b>					
<b>Peak Detector</b>					
4824.000	3.723	36.469	40.192	-33.808	74.000
7236.000	9.439	35.571	45.009	-28.991	74.000
9648.000	11.829	34.742	46.571	-27.429	74.000
<b>Average Detector</b>					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz.
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz.
4. Measurement Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Mobile Clinical Assistant C5  
 Test Item : Harmonic Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmitter 802.11g-Intel:WM3945ABG (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
<b>Peak Detector</b>					
4874.000	3.893	34.970	38.862	-35.138	74.000
7311.000	9.624	34.823	44.447	-29.553	74.000
9748.000	11.805	35.742	47.548	-26.452	74.000
<b>Average Detector</b>					
--					
<b>Vertical</b>					
<b>Peak Detector</b>					
4874.000	3.893	35.773	39.665	-34.335	74.000
7311.000	9.624	35.916	45.540	-28.460	74.000
9748.000	11.805	35.442	47.248	-26.752	74.000
<b>Average Detector</b>					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz.
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz.
4. Measurement Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Mobile Clinical Assistant C5  
 Test Item : Harmonic Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmitter 802.11g-Intel:WM3945ABG (2462 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
<b>Peak Detector</b>					
4924.000	4.075	36.642	40.716	-33.284	74.000
7386.000	9.812	35.994	45.806	-28.194	74.000
9848.000	11.819	36.760	48.579	-25.421	74.000
<b>Average Detector</b>					
--					
<b>Vertical</b>					
<b>Peak Detector</b>					
4924.000	4.075	36.268	40.342	-33.658	74.000
7386.000	9.812	35.406	45.218	-28.782	74.000
9848.000	11.819	35.753	47.572	-26.428	74.000
<b>Average Detector</b>					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz.
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz.
4. Measurement Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Mobile Clinical Assistant C5  
 Test Item : General Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmitter 802.11a-Intel:WM3945ABG (5785 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
<b>Peak Detector</b>					
97.900	11.961	26.690	38.651	-4.849	43.500
107.600	13.064	25.294	38.358	-5.142	43.500
240.975	12.077	29.138	41.215	-4.785	46.000
260.375	14.513	22.910	37.423	-8.577	46.000
456.800	18.477	20.771	39.248	-6.752	46.000
527.125	18.485	20.912	39.397	-6.603	46.000
<b>Vertical</b>					
<b>Peak Detector</b>					
228.850	11.151	27.139	38.290	-7.710	46.000
240.975	12.463	29.386	41.849	-4.151	46.000
335.550	14.360	27.103	41.463	-4.537	46.000
432.550	19.299	19.115	38.414	-7.586	46.000
456.800	18.502	17.769	36.271	-9.729	46.000
527.125	18.888	22.734	41.622	-4.378	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. "█" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions below 1GHz of the lowest, middle, highest frequency are pretested. Only the worst case is shown on the report.

Product : Mobile Clinical Assistant C5  
 Test Item : General Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11b-Intel:WM3945ABG (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
<b>Peak Detector</b>					
97.900	11.961	25.900	37.861	-5.639	43.500
228.850	10.940	27.899	38.839	-7.161	46.000
240.975	12.077	29.780	41.857	-4.143	46.000
335.550	14.410	26.066	40.476	-5.524	46.000
432.550	17.666	21.801	39.467	-6.533	46.000
527.125	18.485	23.103	41.588	-4.412	46.000
<b>Vertical</b>					
<b>Peak Detector</b>					
97.900	10.460	28.726	39.186	-4.314	43.500
240.975	12.463	30.185	42.648	-3.352	46.000
260.375	14.610	25.671	40.281	-5.719	46.000
335.550	14.360	27.735	42.095	-3.905	46.000
432.550	19.299	16.096	35.395	-10.605	46.000
527.125	18.888	23.678	42.566	-3.434	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. "█" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The radiated emissions below 1GHz of the lowest, middle, highest frequency are pretested. Only the worst case is shown on the report.

Product : Mobile Clinical Assistant C5  
 Test Item : General Radiated Emission Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmitter 802.11g-Intel:WM3945ABG (2437 MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
<b>Horizontal</b>					
<b>Peak Detector</b>					
97.900	11.961	25.919	37.880	-5.620	43.500
228.850	10.940	28.002	38.942	-7.058	46.000
335.550	14.410	24.904	39.314	-6.686	46.000
432.550	17.666	20.099	37.765	-8.235	46.000
456.800	18.477	18.027	36.504	-9.496	46.000
527.125	18.485	23.609	42.094	-3.906	46.000

<b>Vertical</b>					
<b>Peak Detector</b>					
97.900	10.460	28.915	39.375	-4.125	43.500
260.375	14.610	27.494	42.104	-3.896	46.000
335.550	14.360	26.104	40.464	-5.536	46.000
432.550	19.299	18.300	37.599	-8.401	46.000
456.800	18.502	18.647	37.149	-8.851	46.000
527.125	18.888	23.846	42.734	-3.266	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. "█" means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor
4. The radiated emissions below 1GHz of the lowest, middle, highest frequency are pretested. Only the worst case is shown on the report.

## 5. Band Edge

### 5.1. Test Equipment

The following test equipments are used during the band edge tests:

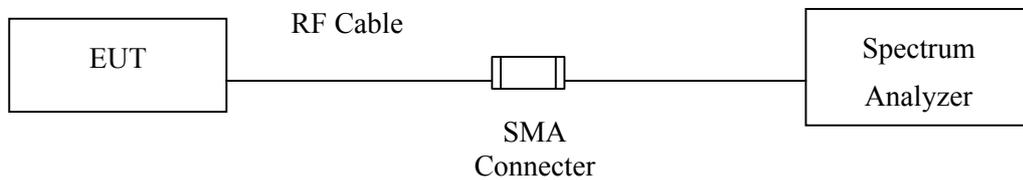
Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X Test Receiver	R & S	ESI 26 / 838786 / 004	May, 2007
X Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2007
X Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2007
X Bilog Antenna	SCHAFFNER	CBL6112B / 2697	May, 2007
X Horn Antenna	ETS	3115 / 0005-6160	July, 2006
X Pre-Amplifier	QTK	QTK-AMP-01 / 0001	July, 2006

Test Site: Site 3

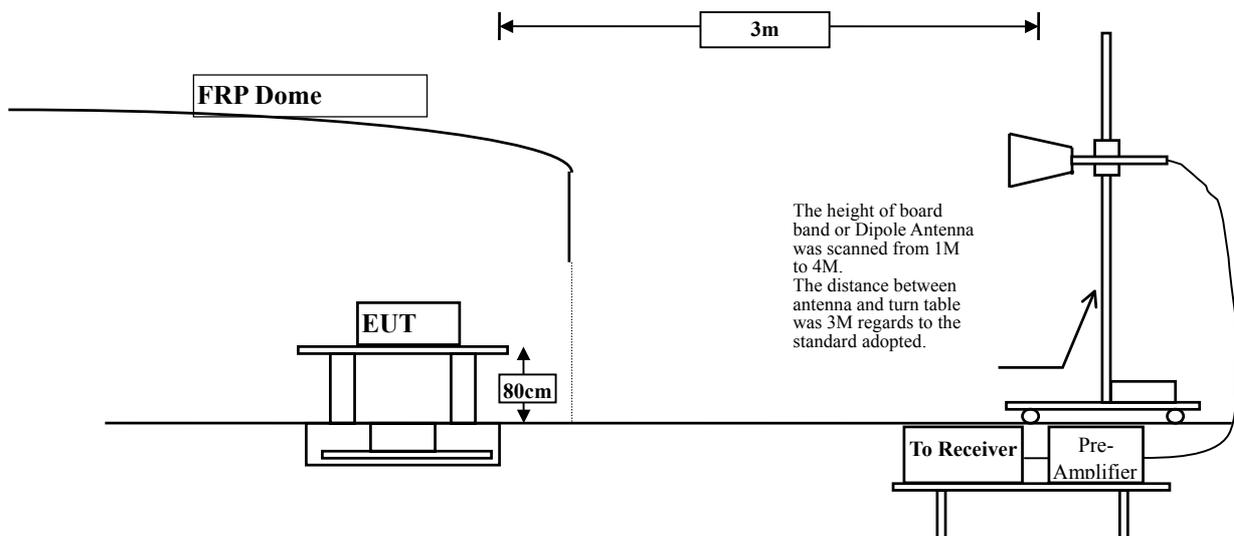
- Note:
1. All equipments are calibrated every one year.
  2. The test instruments marked by "X" are used to measure the final test results.

### 5.2. Test Setup

#### RF Conducted Measurement:



#### RF Radiated Measurement:



### 5.3. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

### 5.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 kHz, above 1GHz are 1 MHz.

### 5.5. Uncertainty

Conducted is  $\pm 1.27$  dB

Radiated is  $\pm 3.9$  dB

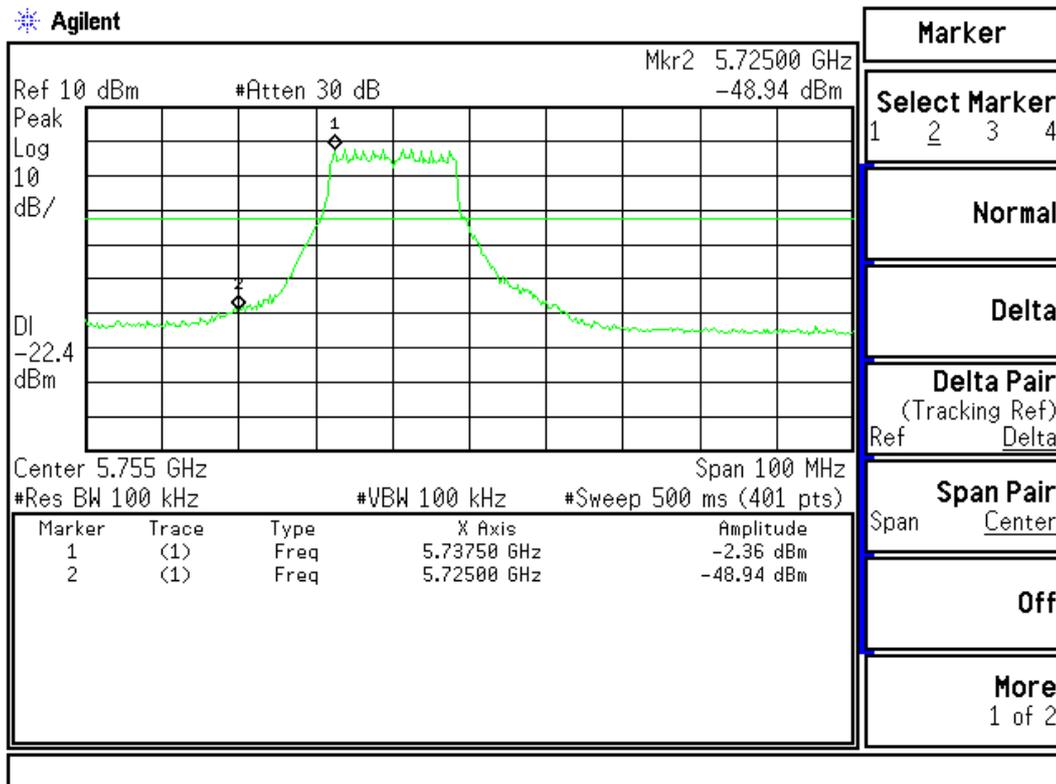
**5.6. Test Result of Band Edge**

Product : Mobile Clinical Assistant C5  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmitter 802.11a-Intel:WM3945ABG (5745MHz)

**RF Conducted Measurement:**

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
1	< 5725	>20	Pass

**Figure Channel 1:**

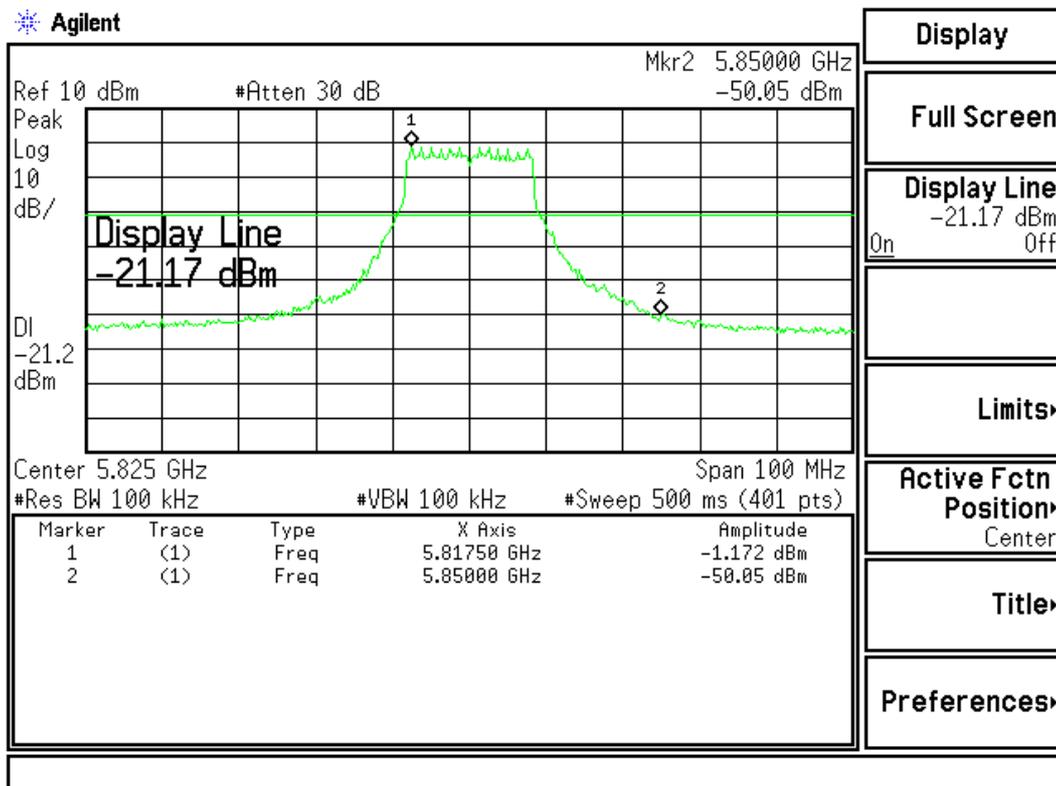


Product : Mobile Clinical Assistant C5  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmitter 802.11a-Intel:WM3945ABG (5825MHz)

**RF Conducted Measurement:**

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
5	> 5850	>20	Pass

**Figure Channel 5:**



Product : Mobile Clinical Assistant C5  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11b-Intel:WM3945ABG (2412MHz)

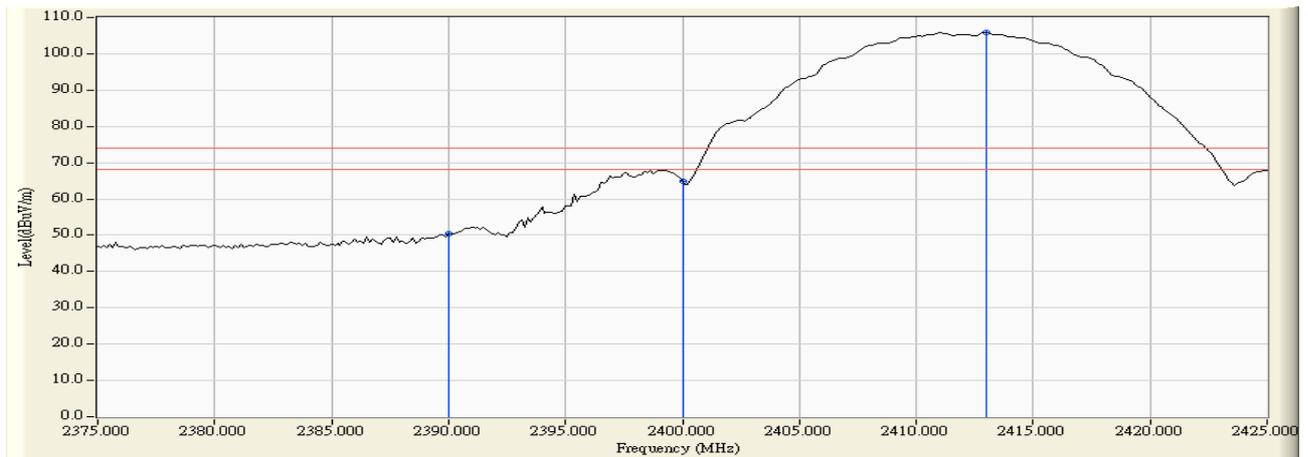
**RF Radiated Measurement:**

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
1 (Horizontal)	<2400	>20	Pass

**RF Radiated Measurement (Horizontal):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
1 (Peak)	2390.000	-2.378	52.890	50.513	74.00	54.00	Pass
1 (Average)	--	--	--	--	74.00	54.00	Pass

**Figure Channel 1: Horizontal (Peak)**



Note: RBW=1MHz, VBW=1MHz, Sweep=500ms

Product : Mobile Clinical Assistant C5  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11b-Intel:WM3945ABG (2412MHz)

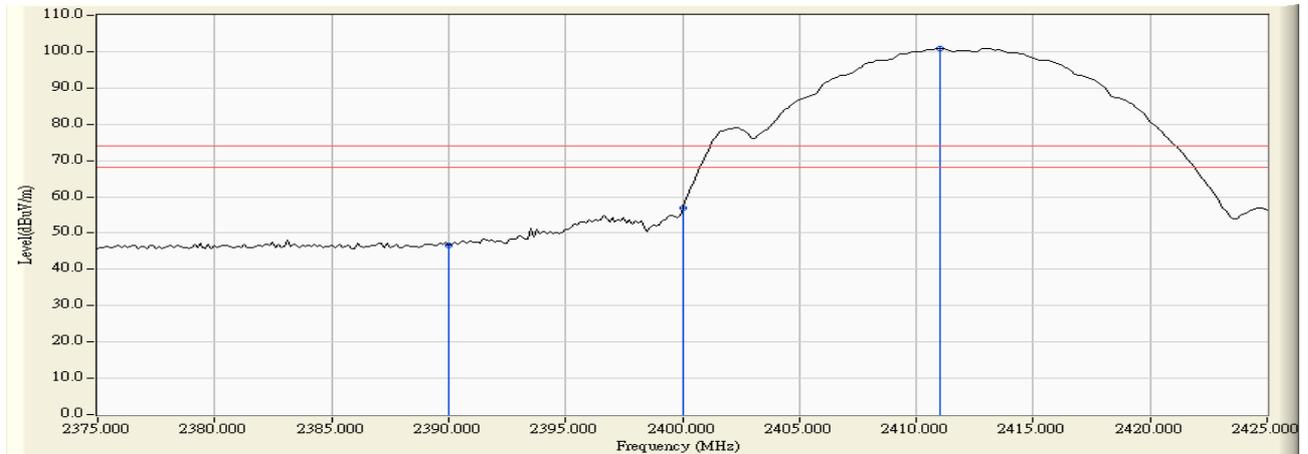
**RF Radiated Measurement:**

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
1 (Vertical)	<2400	>20	Pass

**RF Radiated Measurement (Vertical):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
1 (Peak)	2390.000	-2.378	48.928	46.551	74.00	54.00	Pass
1 (Average)	--	--	--	--	74.00	54.00	Pass

**Figure Channel 1: Vertical (Peak)**



Note: RBW=1MHz, VBW=1MHz, Sweep=500ms

Product : Mobile Clinical Assistant C5  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11b-Intel:WM3945ABG (2462MHz)

**RF Radiated Measurement:**

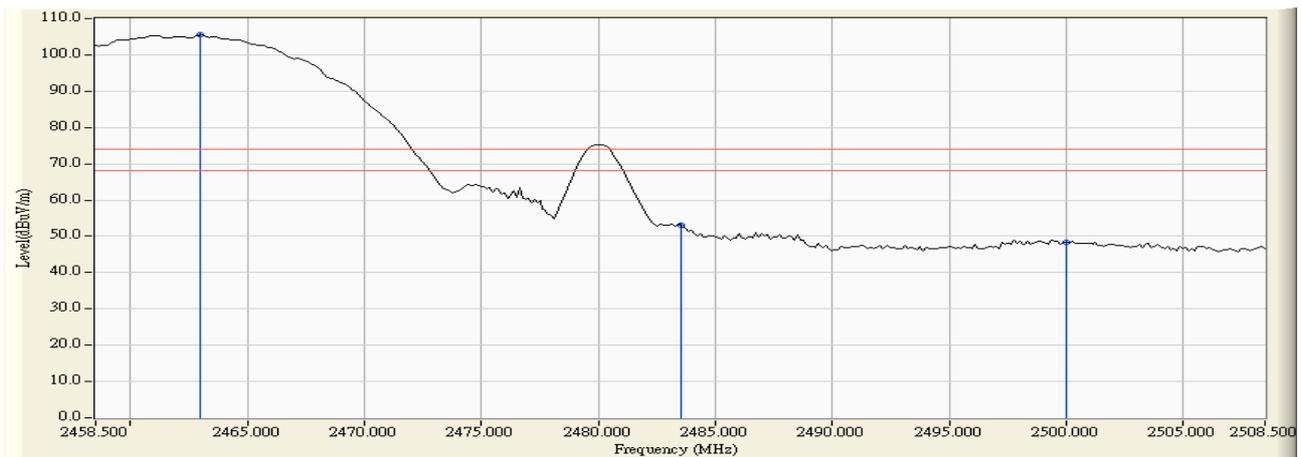
Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
11 (Horizontal)	>2483.5	>20	Pass

**RF Radiated Measurement (Horizontal):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11(Peak)	2483.500	-1.937	55.165	53.228	74.00	54.00	Pass
11(Average)	--	--	--	--	74.00	54.00	Pass

**Figure Channel 11:**

**Horizontal (Peak)**



Note: RBW=1MHz, VBW=1MHz, Sweep=500ms

Product : Mobile Clinical Assistant C5  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11b-Intel:WM3945ABG (2462MHz)

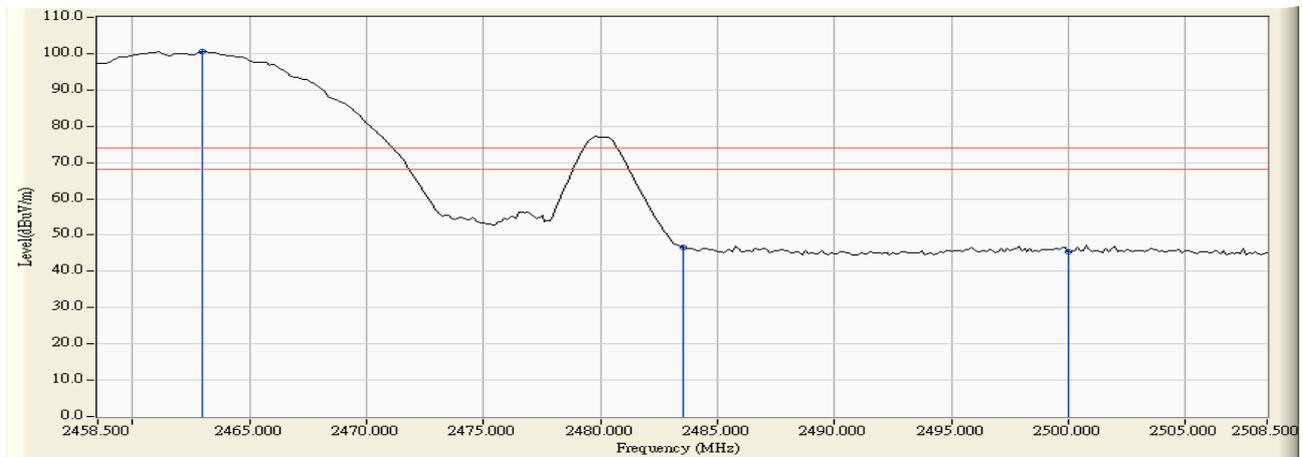
**RF Radiated Measurement:**

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
11 (Vertical)	>2483.5	>20	Pass

**RF Radiated Measurement (Vertical):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11(Peak)	2483.500	-1.937	48.532	46.595	74.00	54.00	Pass
11(Average)	--	--	--	--	74.00	54.00	Pass

**Figure Channel 11: Vertical (Peak )**



Note: RBW=1MHz, VBW=1MHz, Sweep=500ms

Product : Mobile Clinical Assistant C5  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmitter 802.11g-Intel:WM3945ABG (2412MHz)

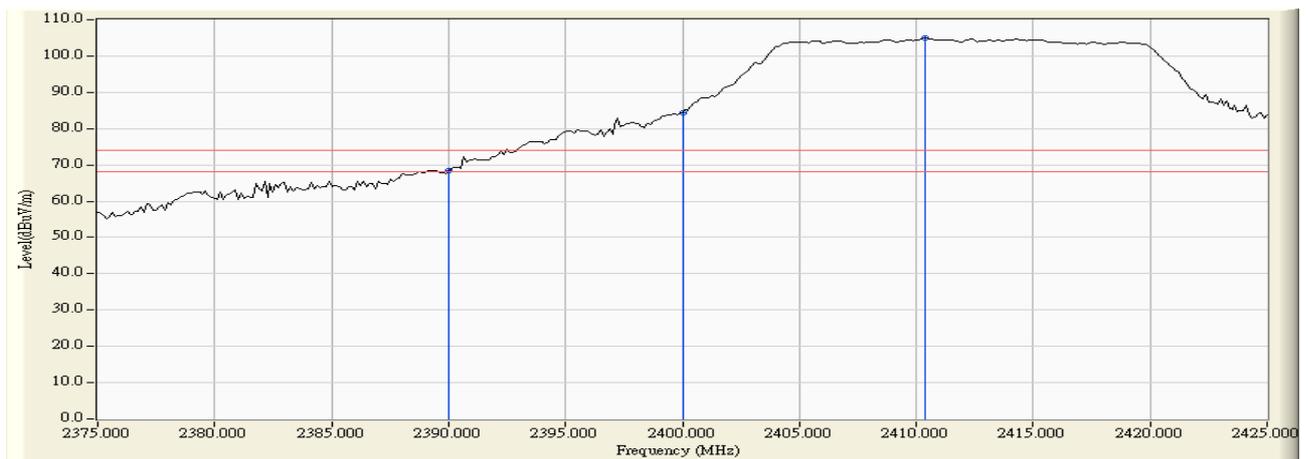
**RF Radiated Measurement:**

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
1 (Horizontal)	<2400	>20	Pass

**RF Radiated Measurement (Horizontal):**

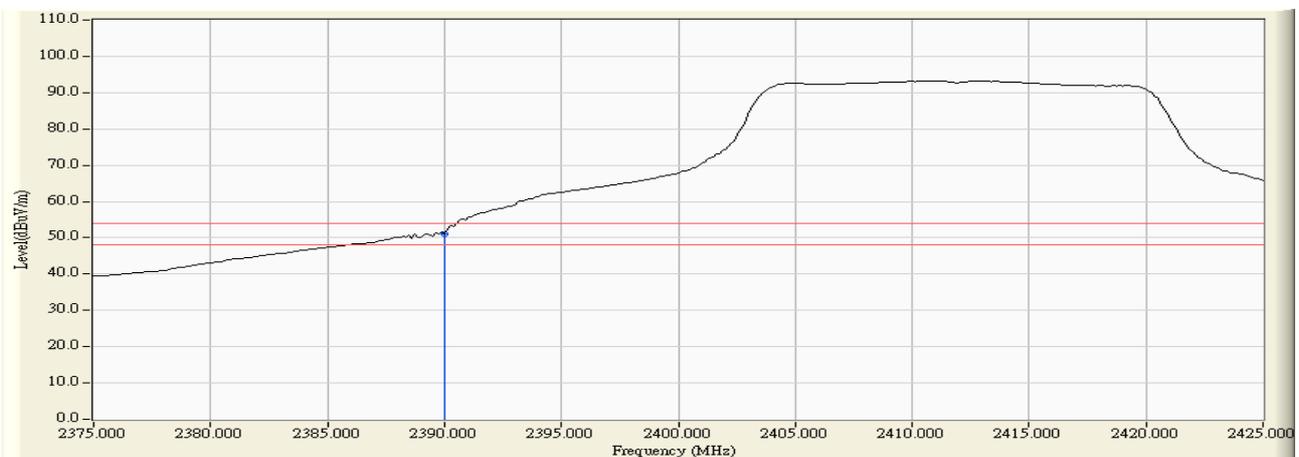
Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
1 (Peak)	2390.000	-2.378	70.785	68.408	74.00	54.00	Pass
1 (Average)	2390.000	-2.378	53.323	50.946	74.00	54.00	Pass

**Figure Channel 1: Horizontal (Peak)**



Note: RBW=1MHz, VBW=1MHz, Sweep=500ms

**Figure Channel 1: Horizontal (Average)**



Note: RBW=1MHz, VBW=300Hz, Sweep=500ms

Product : Mobile Clinical Assistant C5  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmitter 802.11g-Intel:WM3945ABG(2412MHz)

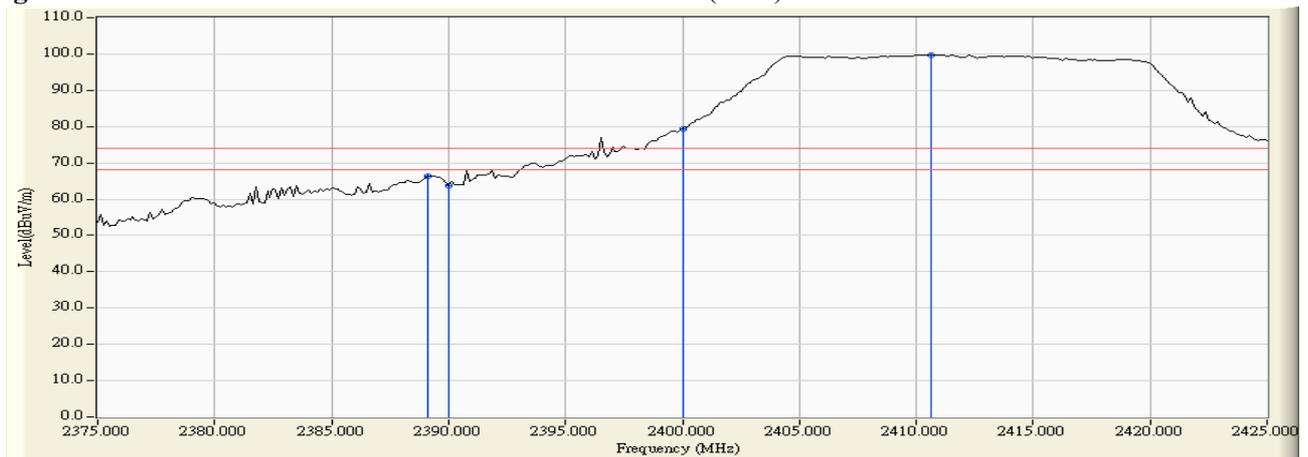
**RF Radiated Measurement:**

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
1 (Vertical)	<2400	>20	Pass

**RF Radiated Measurement (Vertical):**

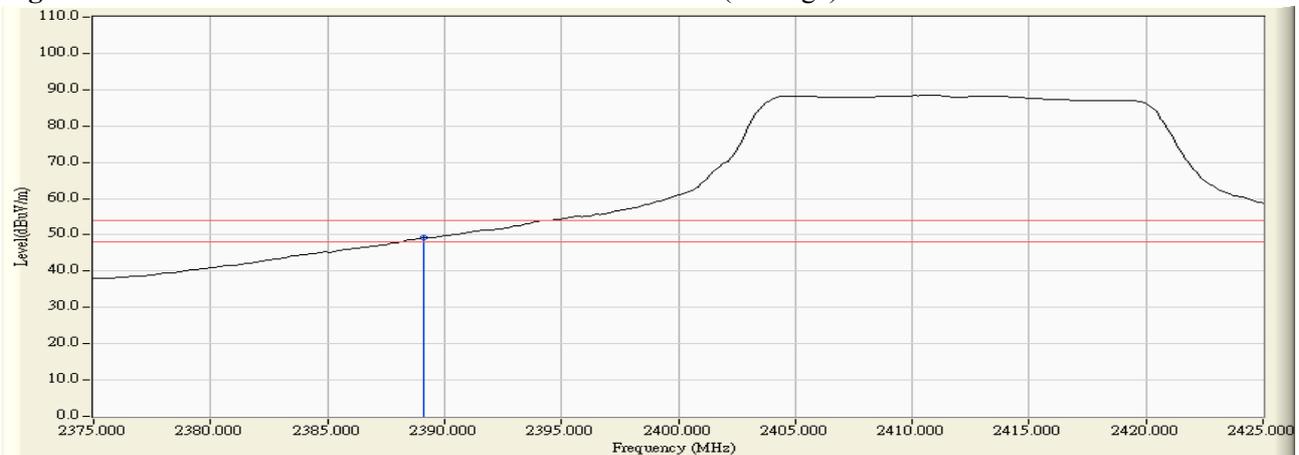
Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
1 (Peak)	2389.125	-2.382	68.779	66.398	74.00	54.00	Pass
1 (Average)	2389.125	-2.382	51.510	49.129	74.00	54.00	Pass

**Figure Channel 1: Vertical (Peak)**



Note: RBW=1MHz, VBW=1MHz, Sweep=500ms

**Figure Channel 1: Vertical (Average)**



Note: RBW=1MHz, VBW=300Hz, Sweep=500ms

Product : Mobile Clinical Assistant C5  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmitter 802.11g-Intel:WM3945ABG (2462MHz)

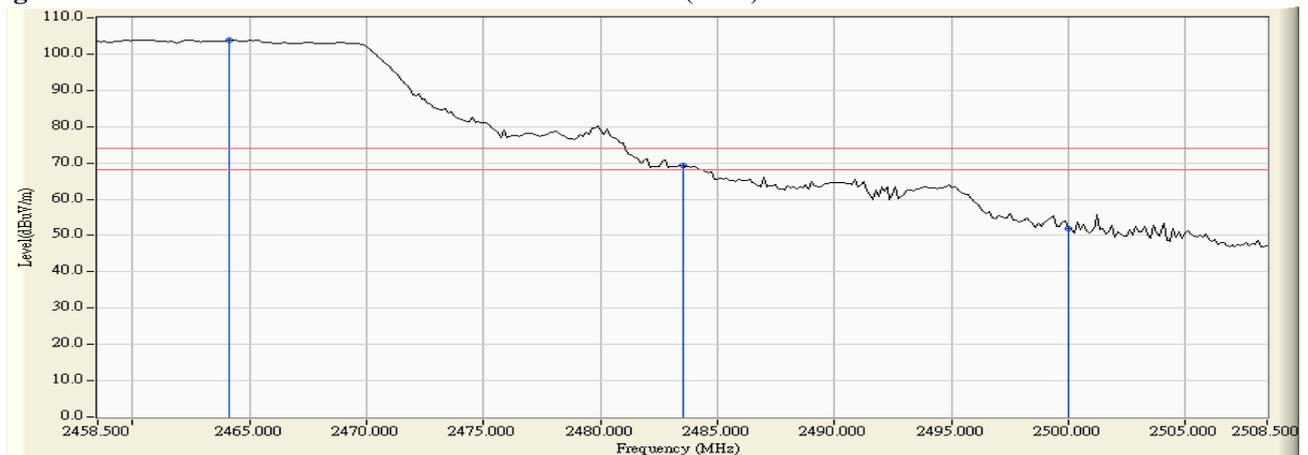
**RF Radiated Measurement:**

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
11 (Horizontal)	>2483.5	>20	Pass

**RF Radiated Measurement (Horizontal):**

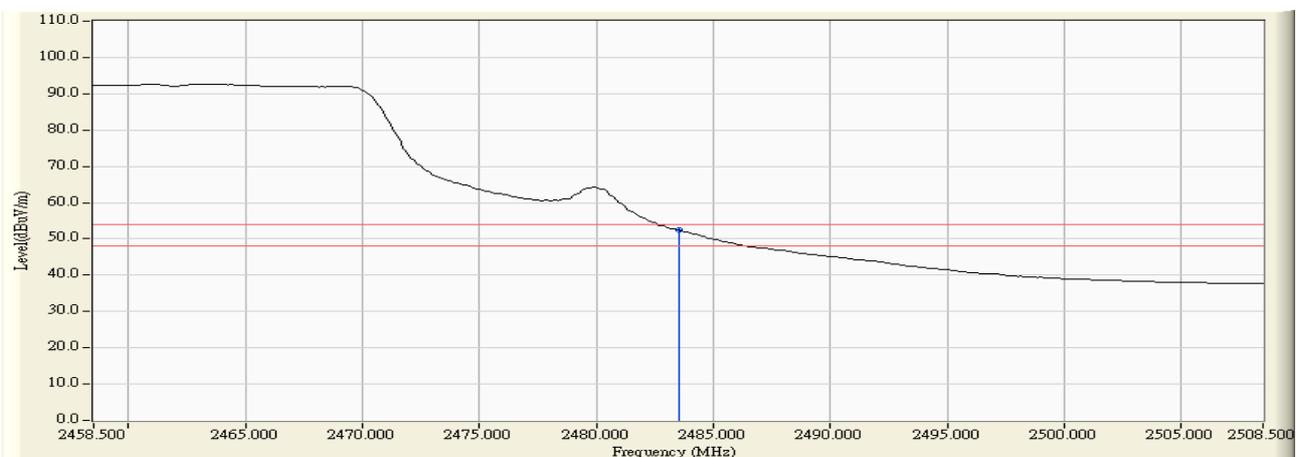
Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2483.500	-1.937	71.161	69.224	74.00	54.00	Pass
11(Average)	2483.500	-1.937	54.309	52.372	74.00	54.00	Pass

**Figure Channel 11: Horizontal (Peak)**



Note: RBW=1MHz, VBW=1MHz, Sweep=500ms

**Figure Channel 11: Horizontal (Average)**



Note: RBW=1MHz, VBW=300Hz, Sweep=500ms

Product : Mobile Clinical Assistant C5  
 Test Item : Band Edge Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmitter 802.11g-Intel:WM3945ABG(2462MHz)

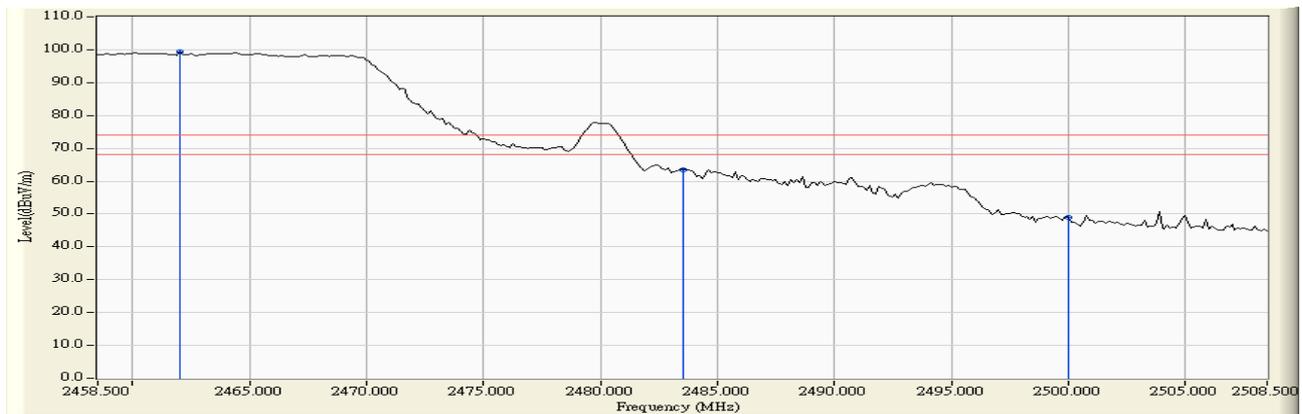
**RF Radiated Measurement:**

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
11 (Vertical)	>2483.5	>20	Pass

**RF Radiated Measurement (Vertical):**

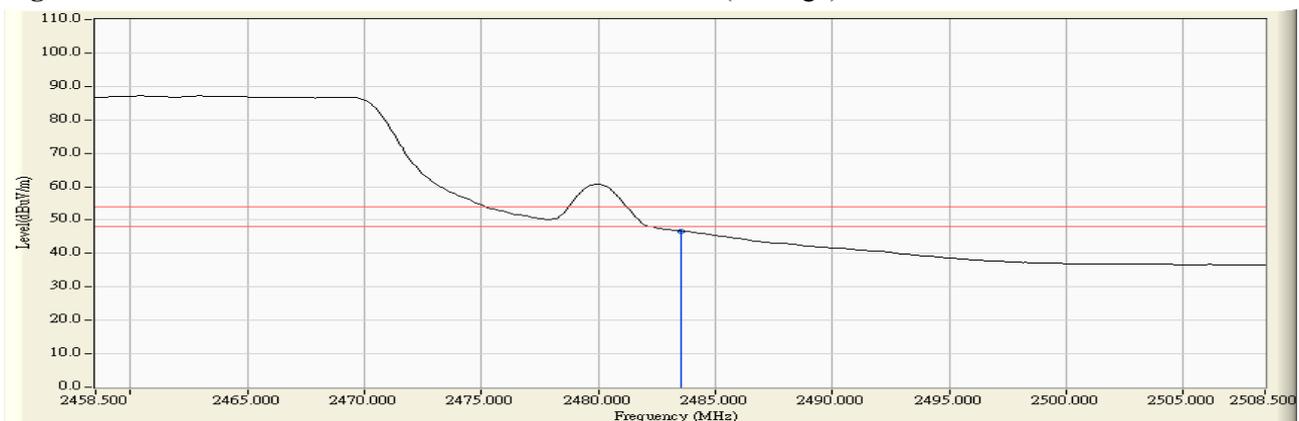
Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2483.500	-1.937	65.337	63.400	74.00	54.00	Pass
11 (Average)	2483.500	-1.937	48.646	46.709	74.00	54.00	Pass

**Figure Channel 11: Vertical (Peak)**



Note: RBW=1MHz, VBW=1MHz, Sweep=500ms

**Figure Channel 11: Vertical (Average)**



Note: RBW=1MHz, VBW=300Hz, Sweep=500ms

Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

**6. Occupied Bandwidth**

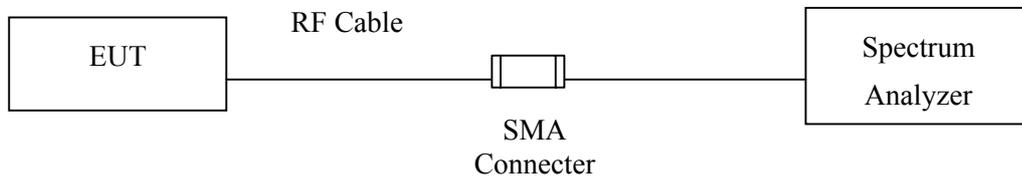
**6.1. Test Equipment**

The following test equipments are used during the radiated emission tests:

Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2007

- Note: 1. All equipments are calibrated every one year.  
 2. The test instruments marked by “X” are used to measure the final test results.

**6.2. Test Setup**



**6.3. Limits**

The minimum bandwidth shall be at least 500kHz.

**6.4. Uncertainty**

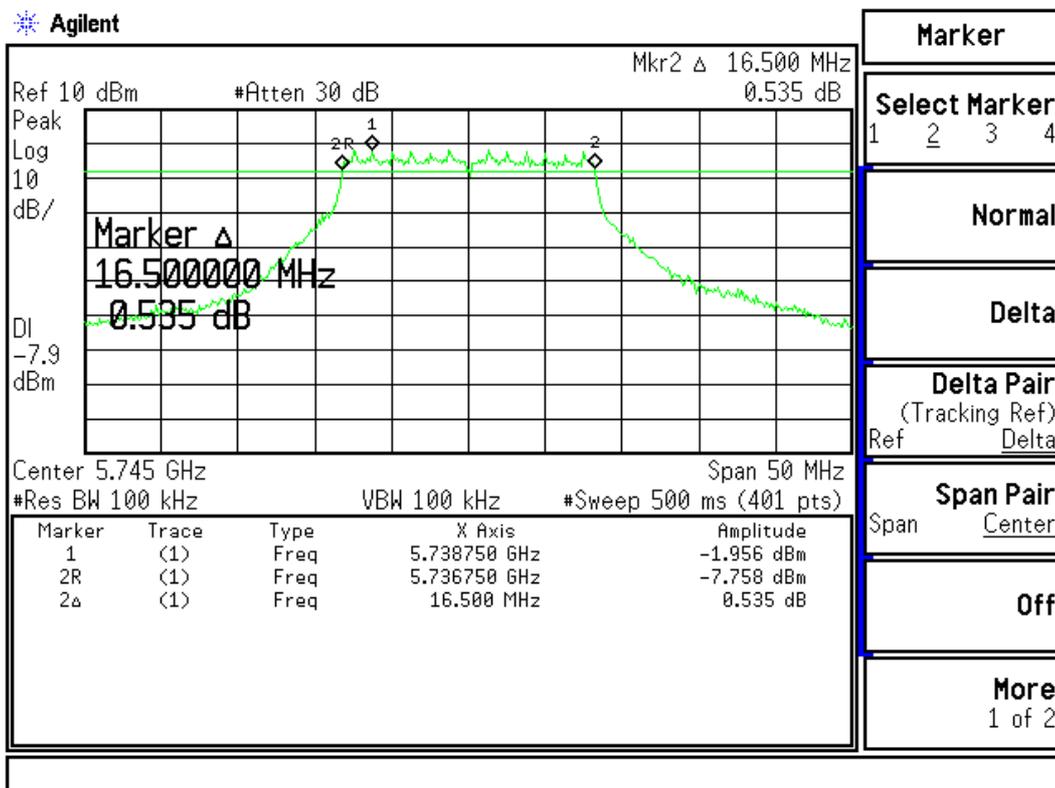
± 150Hz

### 6.5. Test Result of Occupied Bandwidth

Product : Mobile Clinical Assistant C5  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmitter 802.11a-Intel:WM3945ABG (5745MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1 (6Mbps)	5745.00	16500	>500	Pass

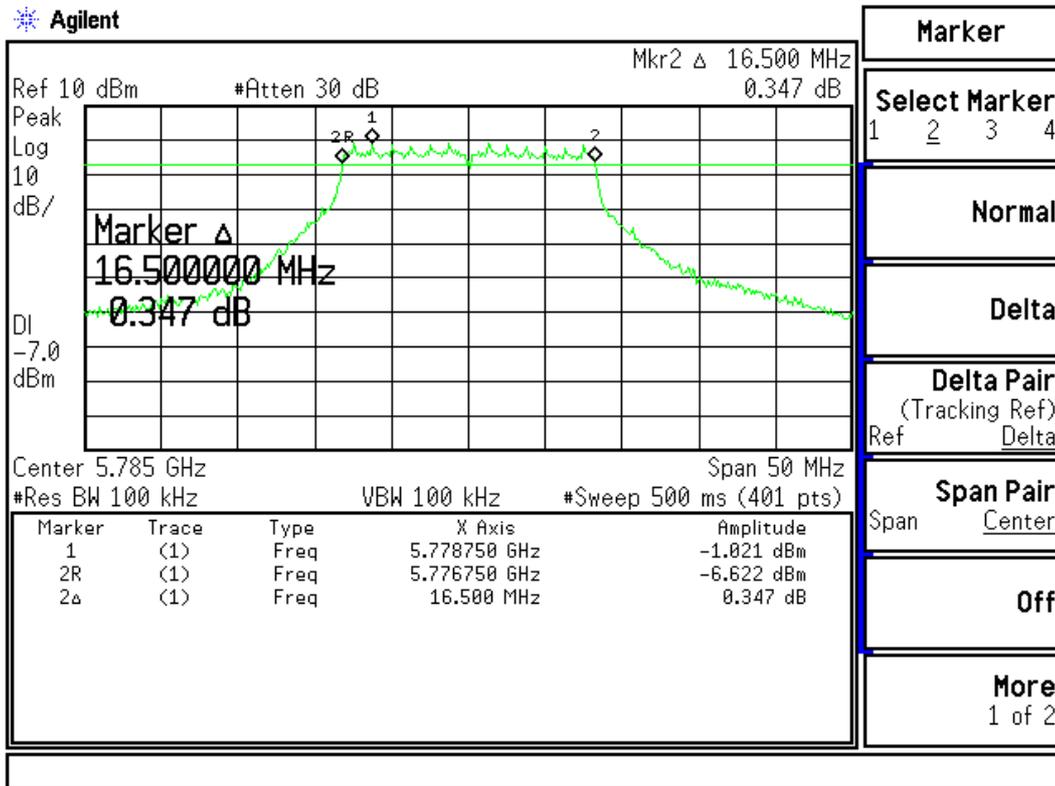
**Figure Channel 1:**



Product : Mobile Clinical Assistant C5  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11b-Intel:WM3945ABG (5785MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
3 (6Mbps)	5785.00	16500	>500	Pass

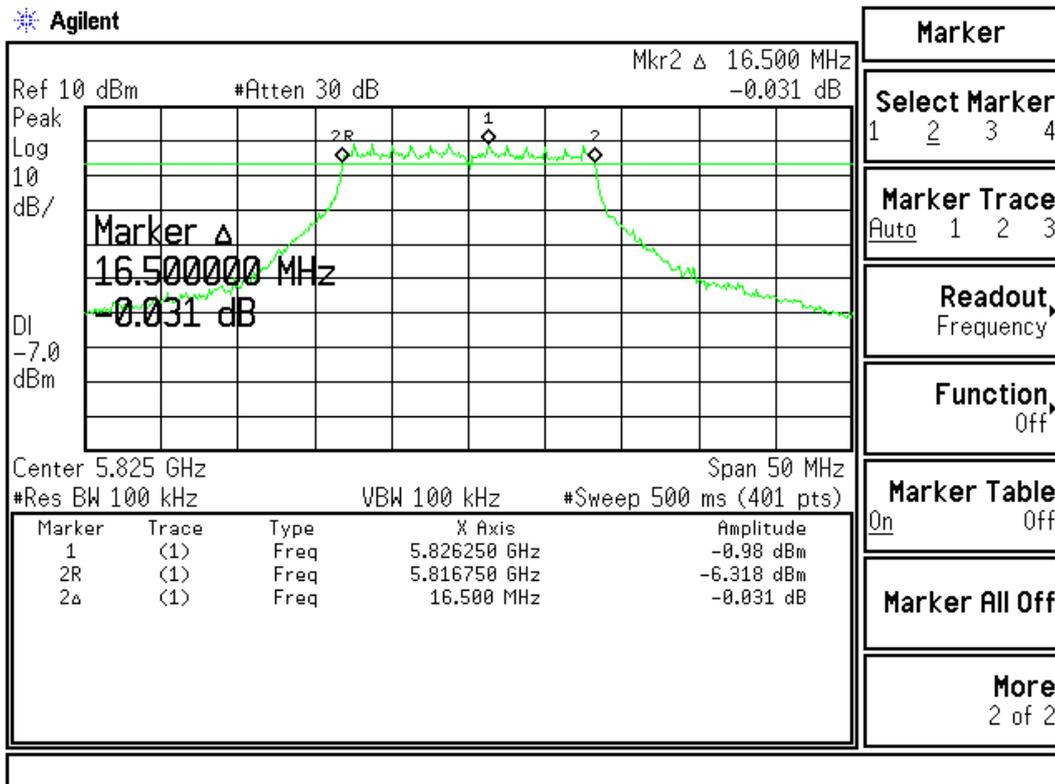
**Figure Channel 3:**



Product : Mobile Clinical Assistant C5  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11b-Intel:WM3945ABG (5825MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
5 (6Mbps)	5825.00	16500	>500	Pass

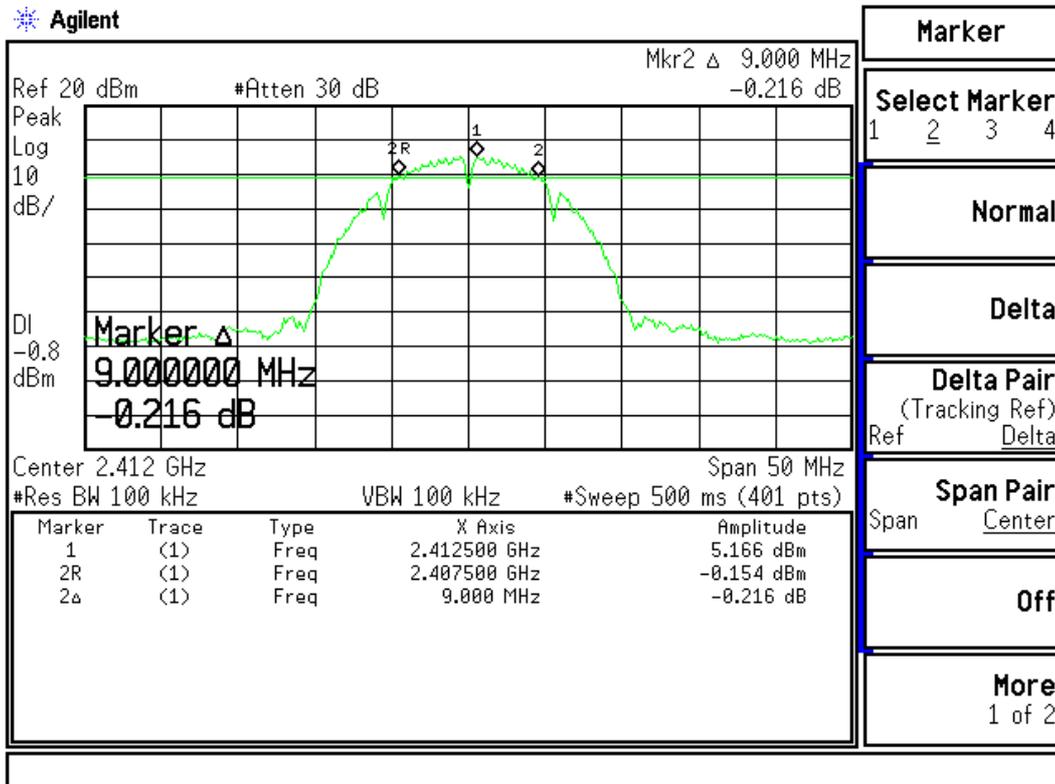
**Figure Channel 5:**



Product : Mobile Clinical Assistant C5  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11b-Intel:WM3945ABG (2412MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1 (1Mbps)	2412.00	9000	>500	Pass

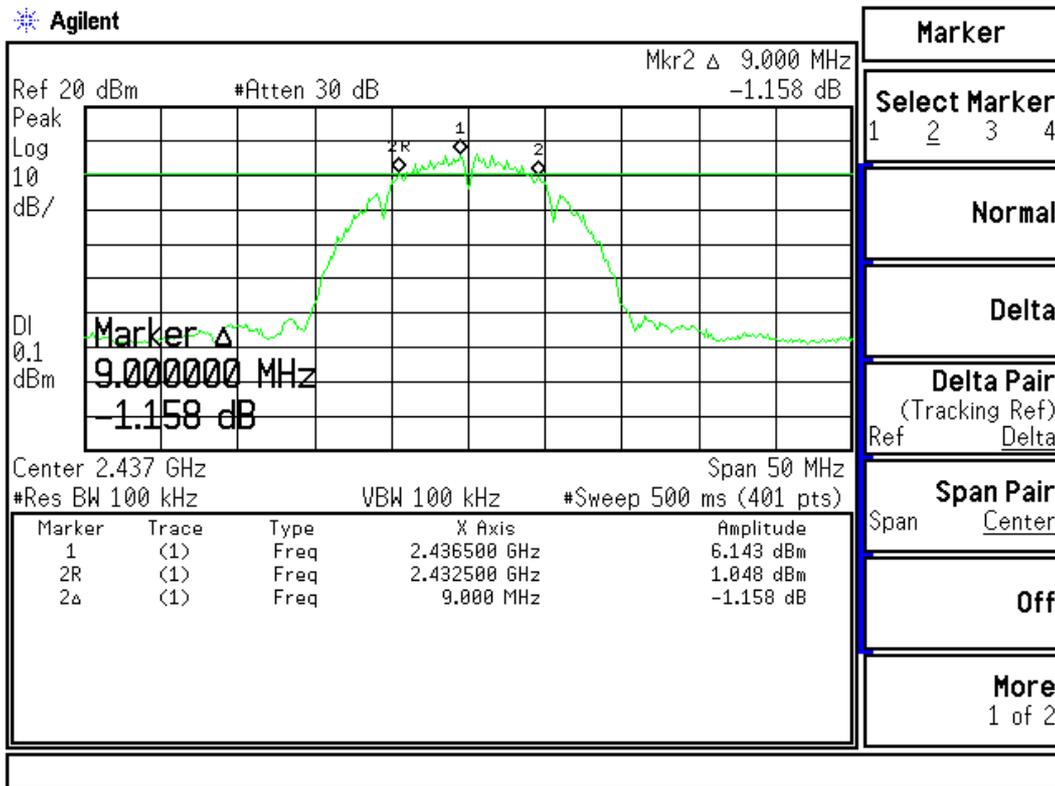
**Figure Channel 1:**



Product : Mobile Clinical Assistant C5  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11b-Intel:WM3945ABG (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6 (1Mbps)	2437.00	9000	>500	Pass

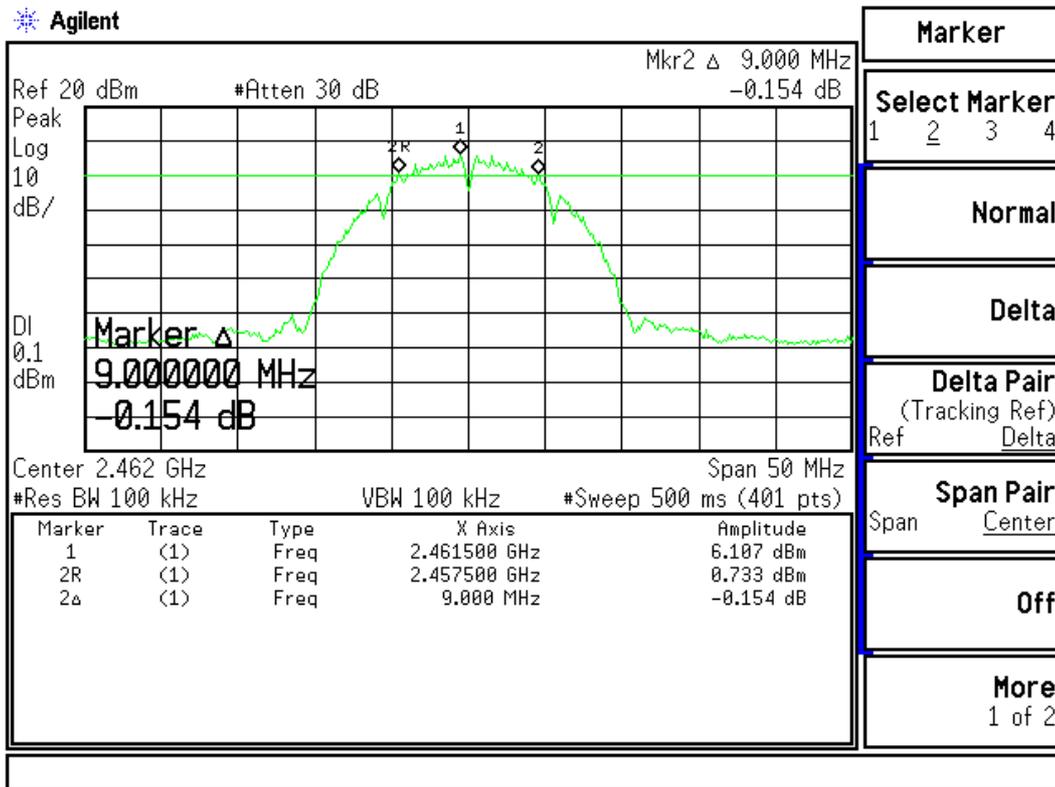
**Figure Channel 6:**



Product : Mobile Clinical Assistant C5  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11b-Intel:WM3945ABG (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11 (1Mbps)	2462.00	9000	>500	Pass

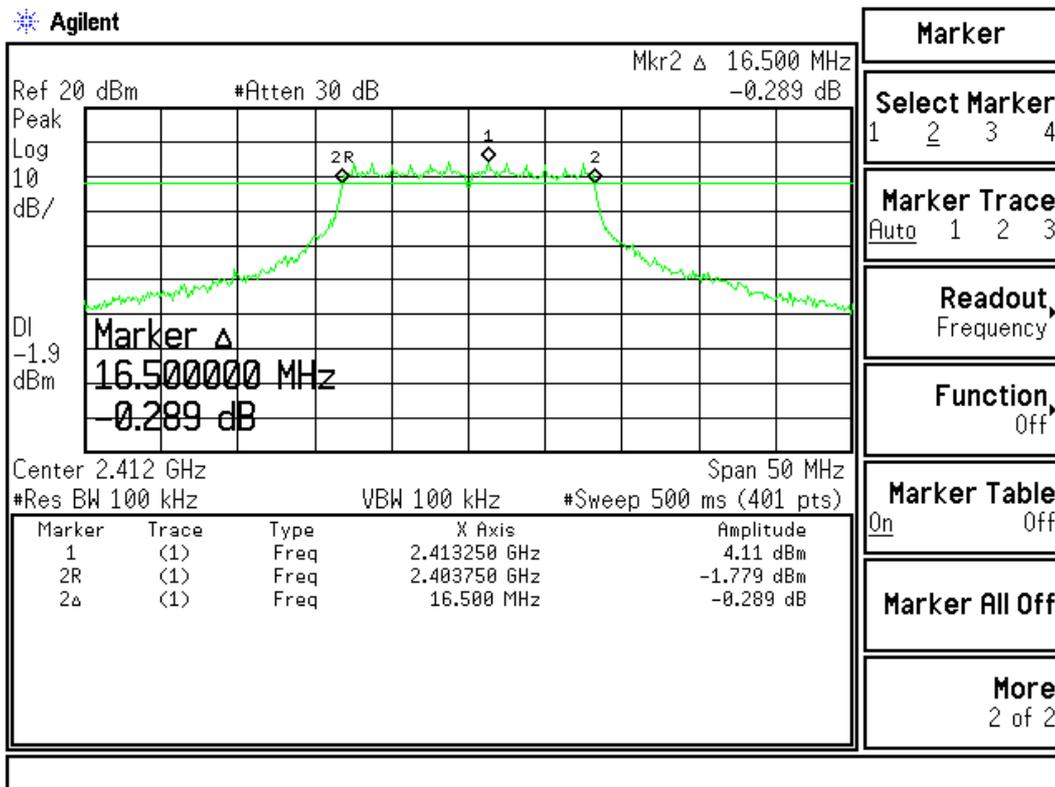
**Figure Channel 11:**



Product : Mobile Clinical Assistant C5  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmitter 802.11g-Intel:WM3945ABG (2412MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1 (6Mbps)	2412.00	16500	>500	Pass

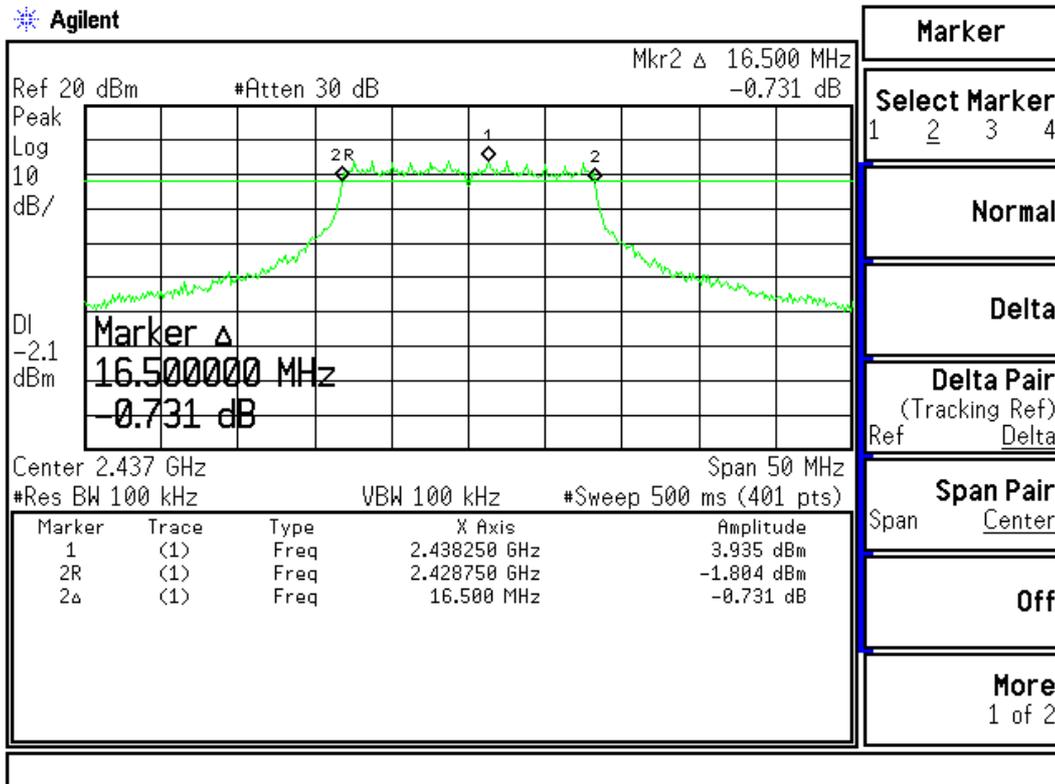
**Figure Channel 1:**



Product : Mobile Clinical Assistant C5  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmitter 802.11g-Intel:WM3945ABG (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6 (6Mbps)	2437.00	16500	>500	Pass

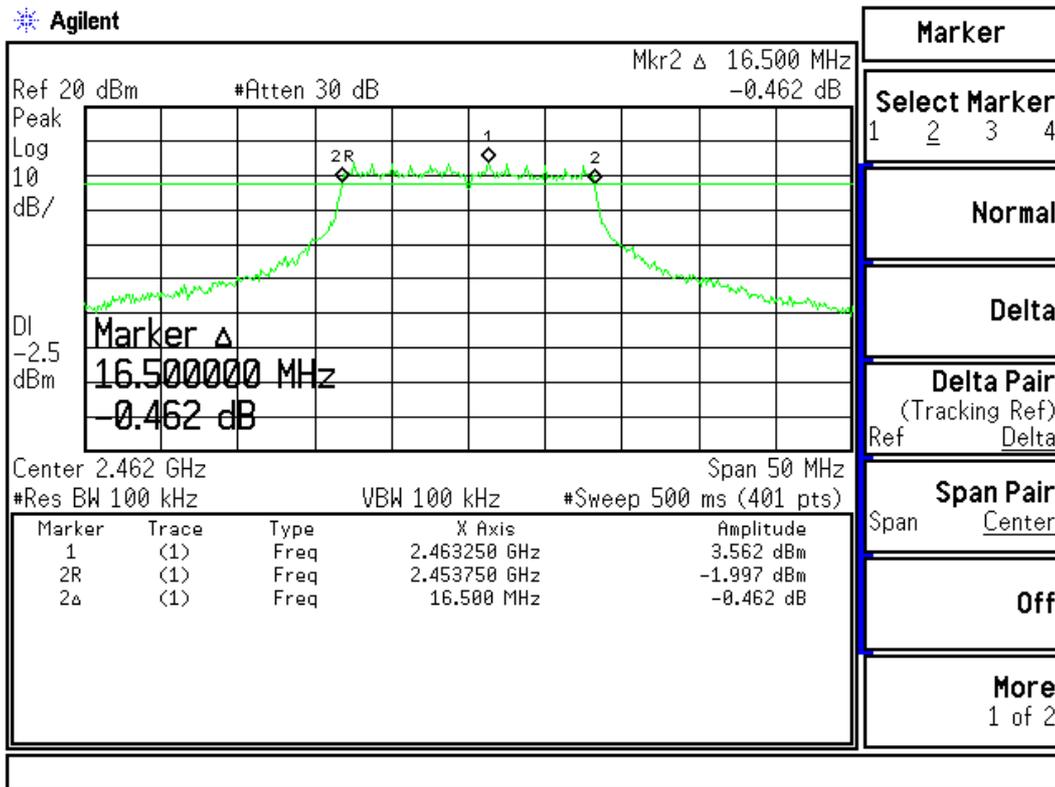
**Figure Channel 6:**



Product : Mobile Clinical Assistant C5  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmitter 802.11g-Intel:WM3945ABG (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11 (6Mbps)	2462.00	16500	>500	Pass

**Figure Channel 11:**



**7. Power Density**

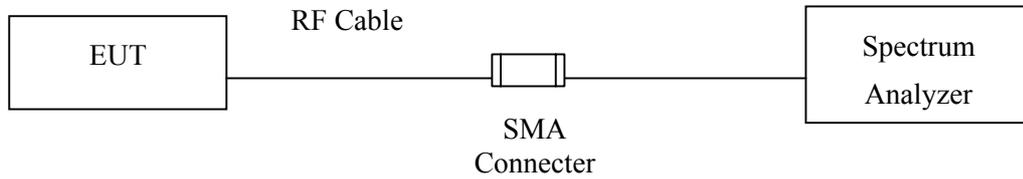
**7.1. Test Equipment**

The following test equipments are used during the radiated emission tests:

Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2007

- Note:
1. All equipments are calibrated every one year.
  2. The test instruments marked by “X” are used to measure the final test results.

**7.2. Test Setup**



**7.3. Limits**

The peak power spectral density conducted from the intentional radiator to the antenna shall not be greater 8dBm in any 3kHz band during any time interval of continuous transmission.

**7.4. Uncertainty**

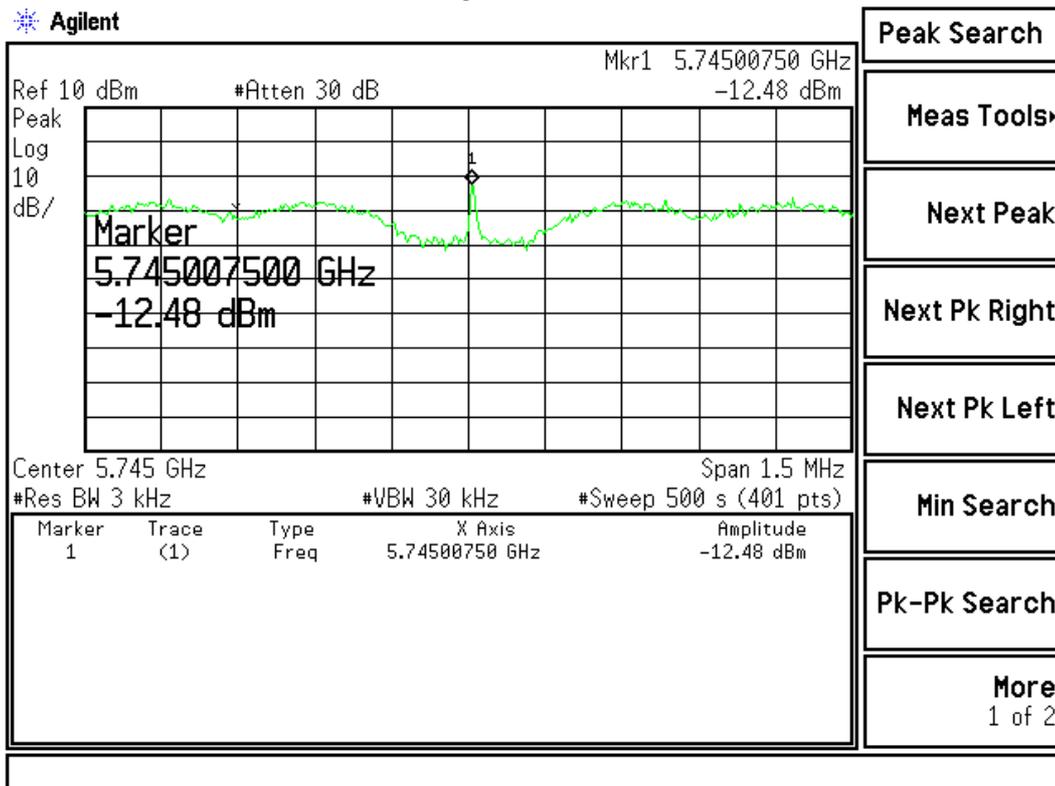
± 1.27 dB

**7.5. Test Result of Power Density**

Product : Mobile Clinical Assistant C5  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmitter 802.11a-Intel:WM3945ABG (5745MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1 (6Mbps)	5745	-12.48	< 8dBm	Pass

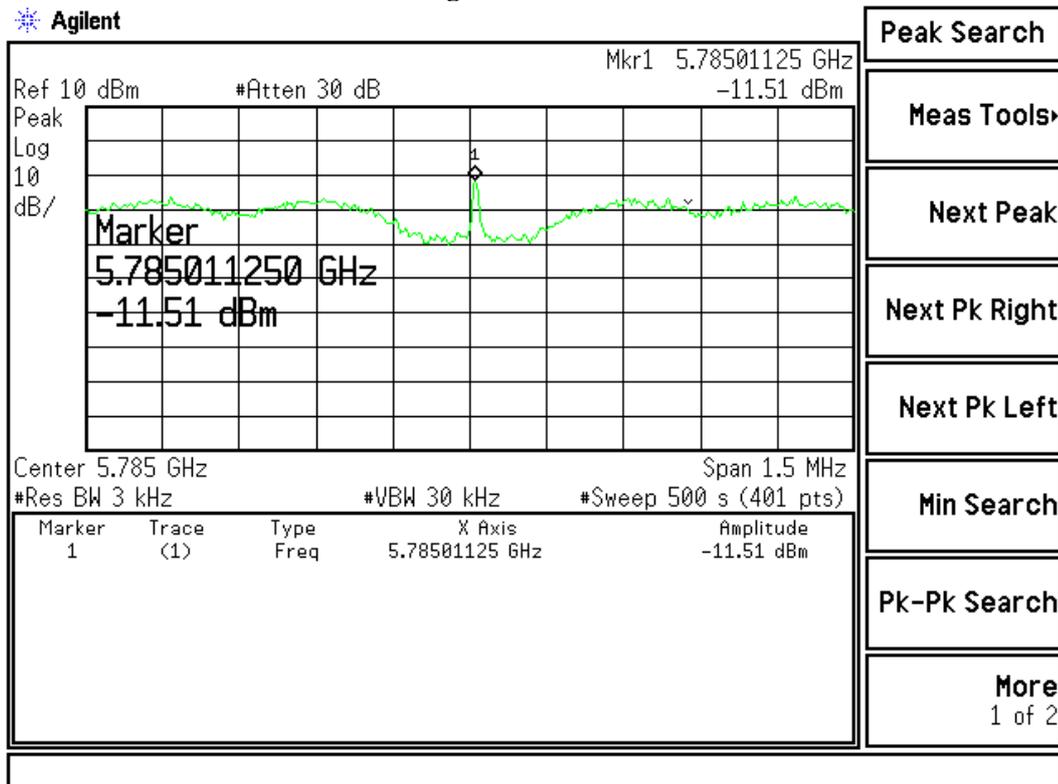
**Figure Channel 1:**



Product : Mobile Clinical Assistant C5  
 Test Item : Power Density Data  
 Test Site : No.3OATS  
 Test Mode : Mode 1: Transmitter 802.11a-Intel:WM3945ABG (5785MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
3 (6Mbps)	5785	-11.51	< 8dBm	Pass

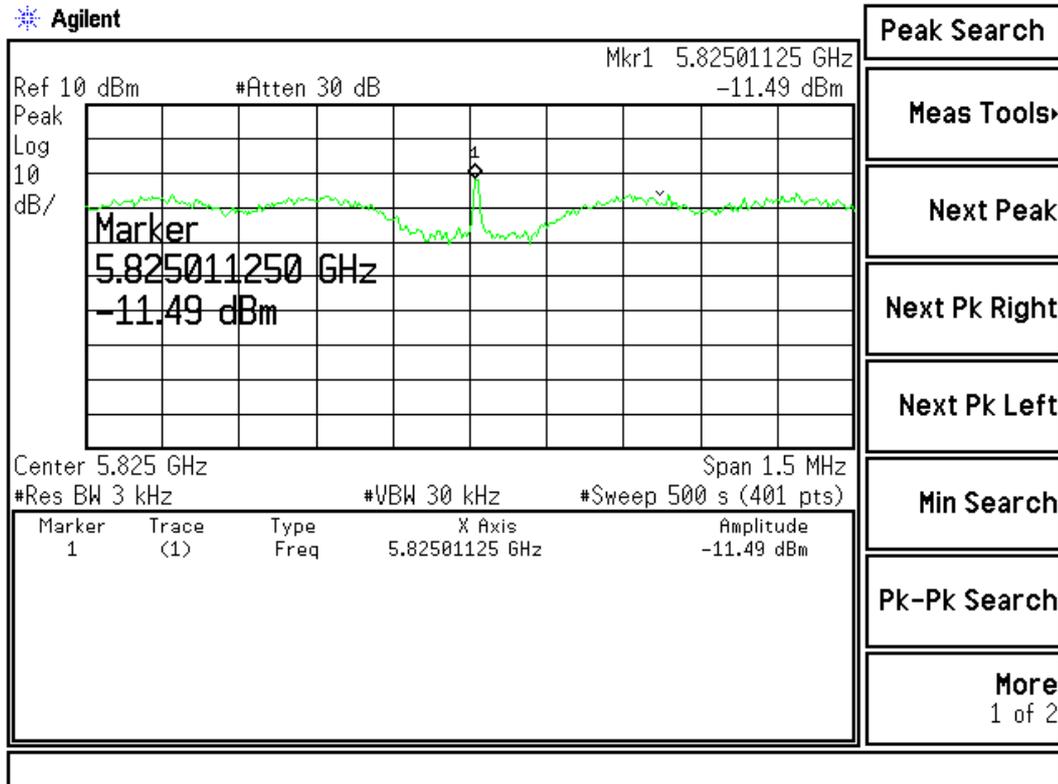
**Figure Channel 3:**



Product : Mobile Clinical Assistant C5  
 Test Item : Power Density Data  
 Test Site : No.3OATS  
 Test Mode : Mode 1: Transmitter 802.11a-Intel:WM3945ABG (5825MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
5 (6Mbps)	5825	-11.49	< 8dBm	Pass

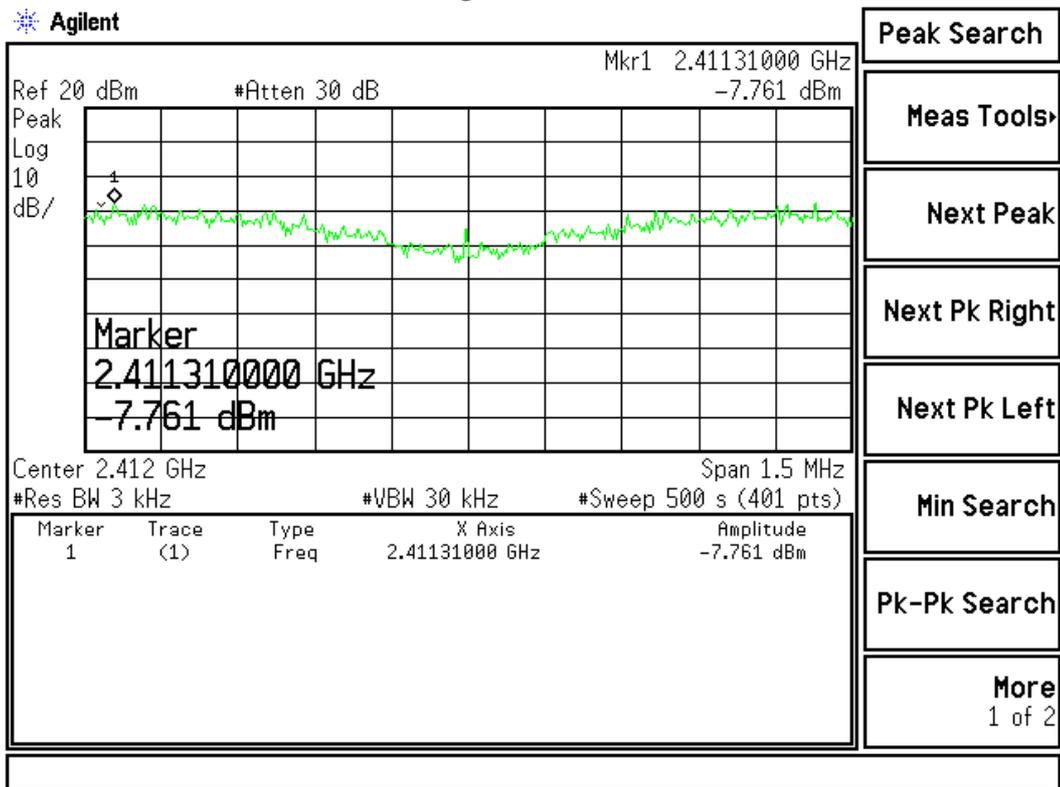
**Figure Channel 5:**



Product : Mobile Clinical Assistant C5  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11b-Intel:WM3945ABG (2412MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1 (1Mbps)	2412	-7.76	< 8dBm	Pass

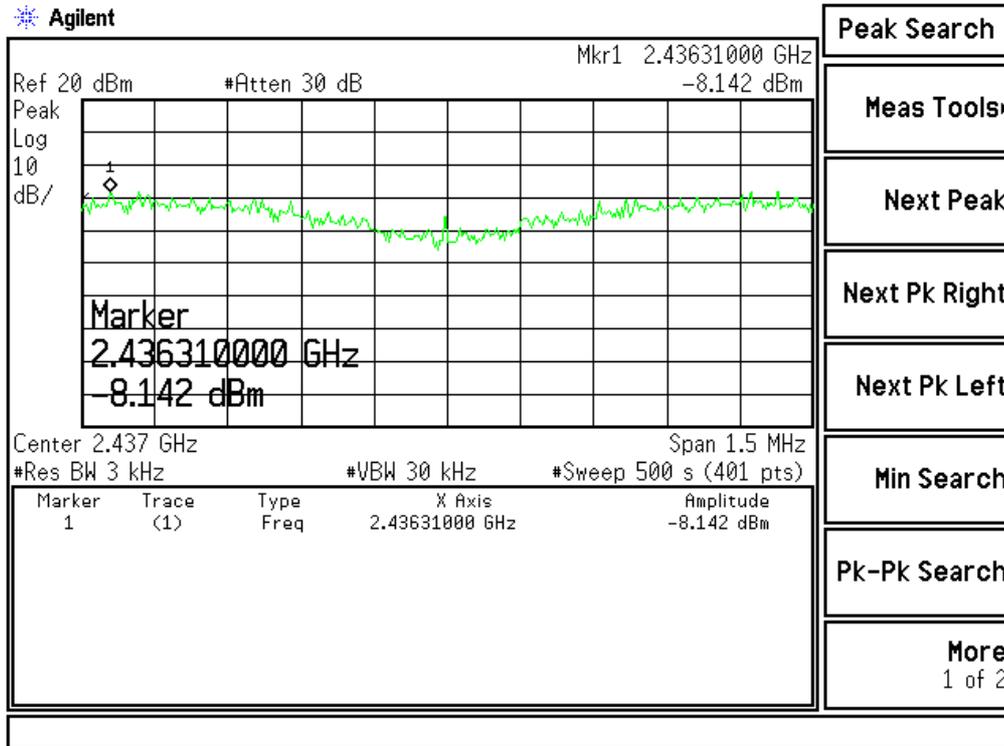
**Figure Channel 1:**



Product : Mobile Clinical Assistant C5  
 Test Item : Power Density Data  
 Test Site : No.3OATS  
 Test Mode : Mode 2: Transmitter 802.11b-Intel:WM3945ABG (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6 (1Mbps)	2437	-8.142	< 8dBm	Pass

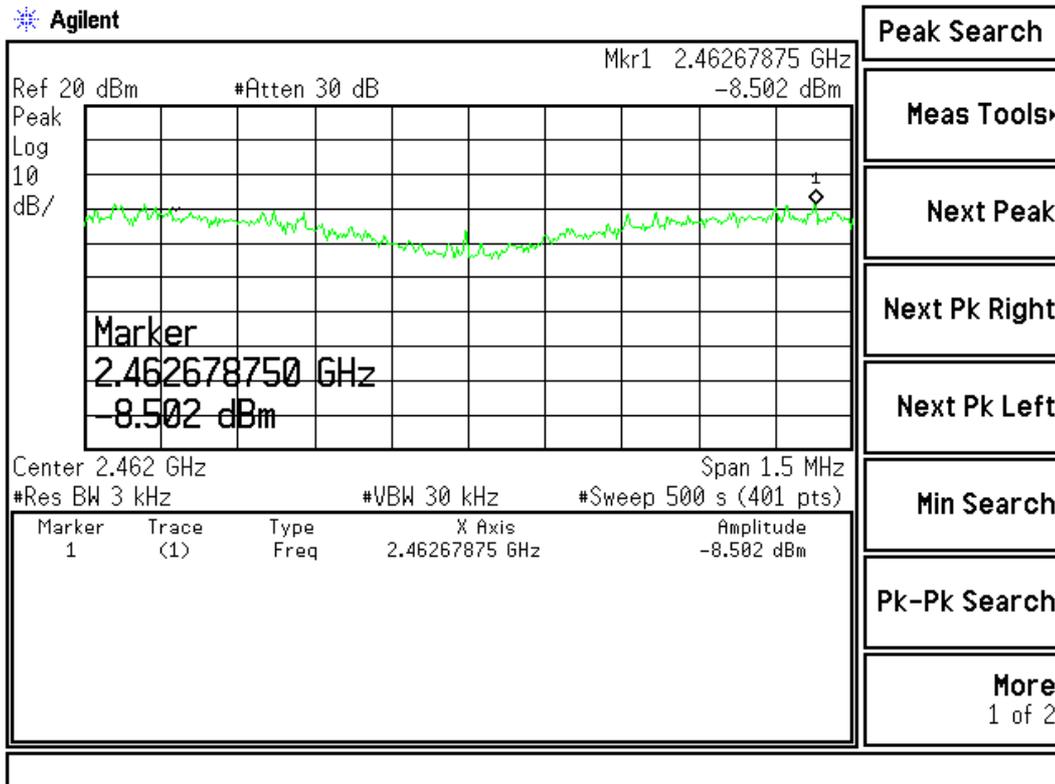
**Figure Channel 6:**



Product : Mobile Clinical Assistant C5  
 Test Item : Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 2: Transmitter 802.11b-Intel:WM3945ABG (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11 (1Mbps)	2462	-8.502	< 8dBm	Pass

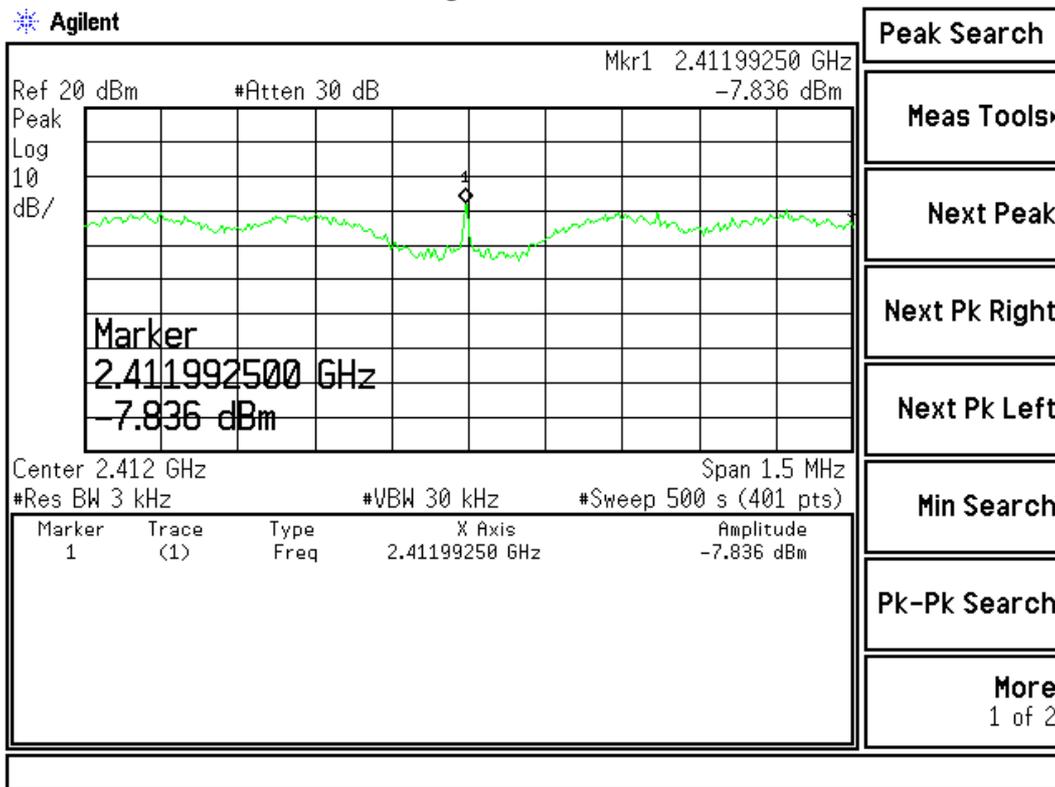
**Figure Channel 11:**



Product : Mobile Clinical Assistant C5  
 Test Item : Power Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmitter 802.11g-Intel:WM3945ABG (2412MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1 (6Mbps)	2412	-7.836	< 8dBm	Pass

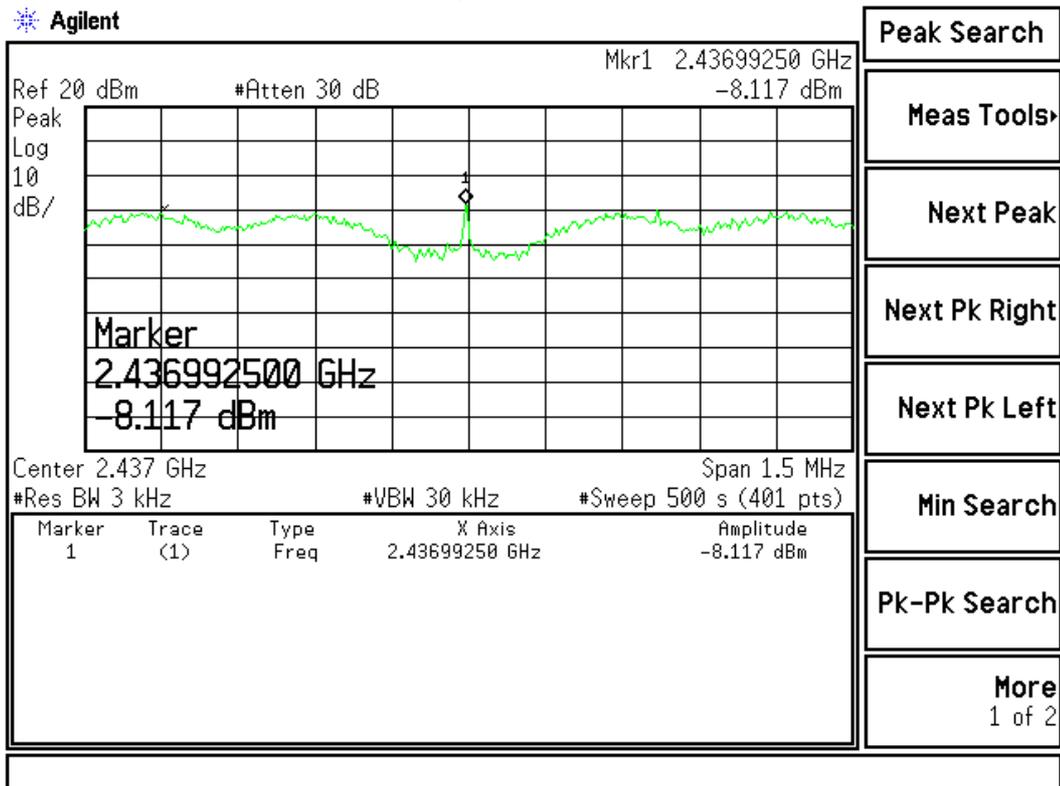
**Figure Channel 1:**



Product : Mobile Clinical Assistant C5  
 Test Item : Power Density Data  
 Test Site : No.3OATS  
 Test Mode : Mode 3: Transmitter 802.11g-Intel:WM3945ABG (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6 (6Mbps)	2437	-8.117	< 8dBm	Pass

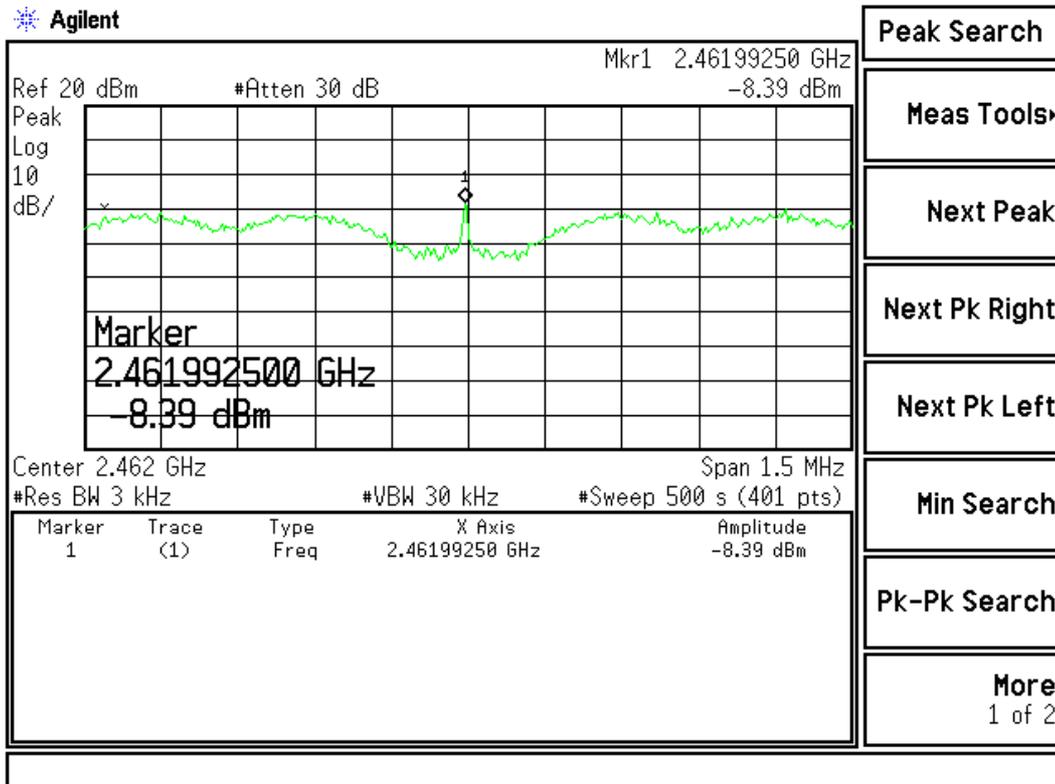
Figure Channel 6:



Product : Mobile Clinical Assistant C5  
 Test Item : Density Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 3: Transmitter 802.11g-Intel:WM3945ABG (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11 (6Mbps)	2462	-8.39	< 8dBm	Pass

**Figure Channel 11:**



## 8. EMI Reduction Method During Compliance Testing

No modification was made during testing.