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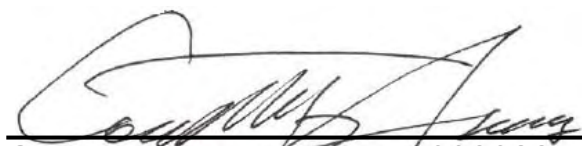
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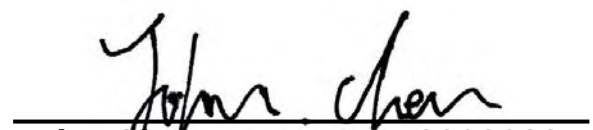
Part 15 C Measurement Report



Report No.	: 0902FR13
Applicant	: Applied Wireless Identifications Group Inc.
Trade Mark	: AWID
Product Model	: HH-6600
Product Type	: RFID Handheld Terminal
FCC ID	: OGSHH6600
Dates of Test	: Feb. 04 ~ 24, 2009
Test Specification	: Part 15 Subpart C (15.247)
	PUBLIC NOTICE :DA 00-705 Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems
Location of Test Lab.	: Chang-an Lab.

1. The test operations have to be performed with cautious behavior, the test results are as attached.
2. The test results are under chamber environment of A Test Lab Techno Corp. A Test Lab Techno Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples.
3. The measurement report has to be written approval of A Test Lab Techno Corp. It may only be reproduced or published in full.


Country Huang 20090225
Measurement Center Manager


John Cheng 20090225
Testing Engineer



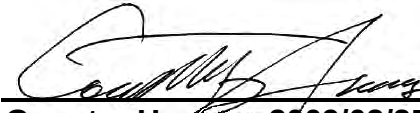
CERTIFICATION

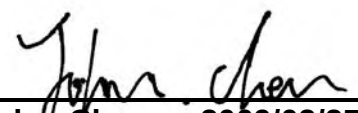
We here by verify that:

The test data, data evaluation, test procedures and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4:2003. All test were conducted by *A Test Lab Techno Corp. No.140-1, Chang-an St., Bade City, Tao-Yuan County 334, Taiwan (R.O.C.)* Also, we attest to the accuracy of each.

We further submit that the energy emitted by the sample EUT tested as described in the report is in compliance with Class B radiated and conducted emission limit of FCC Rules Part 15 Subpart C (15.247).

EUT : PDA Phone
Applicant : Applied Wireless Identifications Group Inc.
18300 Sutter Blvd, Morgan Hill, CA 95037 USA
Model No : HH-6600
FCC ID : OGSHH6600

Approved by : 
Country Huang 2009/02/25

Prepared by : 
John Cheng 2009/02/25

A Test Lab Techno Corp.

*No.140-1, Chang-an St., Bade City, Tao-Yuan County 334, Taiwan (R.O.C.)
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1. GENERAL

1.1 Description of Equipment under Test (EUT)

Applicant :

Applied Wireless Identifications Group Inc.
18300 Sutter Blvd, Morgan Hill, CA 95037 USA.

Manufacturer : Applied Wireless Identifications Group Inc.
Manufacturer Address : 18300 Sutter Blvd, Morgan Hill, CA 95037 USA
Product Type : RFID Handheld Terminal
Trade Name : AWID
Model Name : HH-6600
FCC ID : OGSHH6600
Antenna Gain : 0dBi
Input Rating : 7.4 Vdc / 1850mA
Frequency of Channel : See Table 1
Type of Modulation : Direct Sequence Spread Spectrum
Type of Antenna : PCB antenna

During testing the EUT was operated at Tx or Rx mode for each emission measured. This was done in order to ensure that maximum emission levels were attained.

802.11b/g Mode	
CH	Frequency
1	2412
2	2417
3	2422
4	2427
5	2432
6	2437
7	2442
8	2447
9	2452
10	2457
11	2462

Table 1. WLAN Frequency of Each Channel (Working Frequency)



1.2 Introduction

The following measurement report is submitted on behalf of **Applied Wireless Identifications Group Inc.** In support of a Class B Digital Device certification in accordance with Part 2 Subpart J and Part 15 Subpart A and B&C of the Commission's and Regulations.

1.3 Summary of Tests

47 CFR Part 15 Subpart C			
Reference	Test	Results	Note
15.107	AC Power Conducted Emission	PASS	
15.247(c)	Transmitter Radiated Emissions	PASS	
15.247(b)	Max. Output Power	PASS	
15.247(a)(2)	6dB RF Bandwidth	PASS	
15.247(d)	Max. Power Density	PASS	
15.247(c)	Out of Band Conducted Spurious Emission	PASS	
15.247(c)	Band Edge Measurement	PASS	
15.203	Antenna Requirement	PASS	



1.4 Description of Support Equipment

Computer	: DELL
Model No.	: PP49L
Serial No.	: UF230 A03
FCC ID	: E2KWM3945ABC
Keyboard	: DELL
Model No.	: SK-8115
Serial No.	: MY-0DJ325-71619-7113-1366
FCC ID	: FCC DOC
Monitor	: DELL
Model No.	: E177FPc
Serial No.	: CN-0FJ179-64180-6BT-4LYS
FCC ID	: FCC DOC
Mouse	: DELL
Model No.	: M056U0A
Serial No.	: F1F026E1
FCC ID	: FCC DOC
Printer	: EPSON
Model No.	: C60
Serial No.	: DR3K041323
FCC ID	: FCC DOC

1.5 Configuration of System under Test

PC USB Link

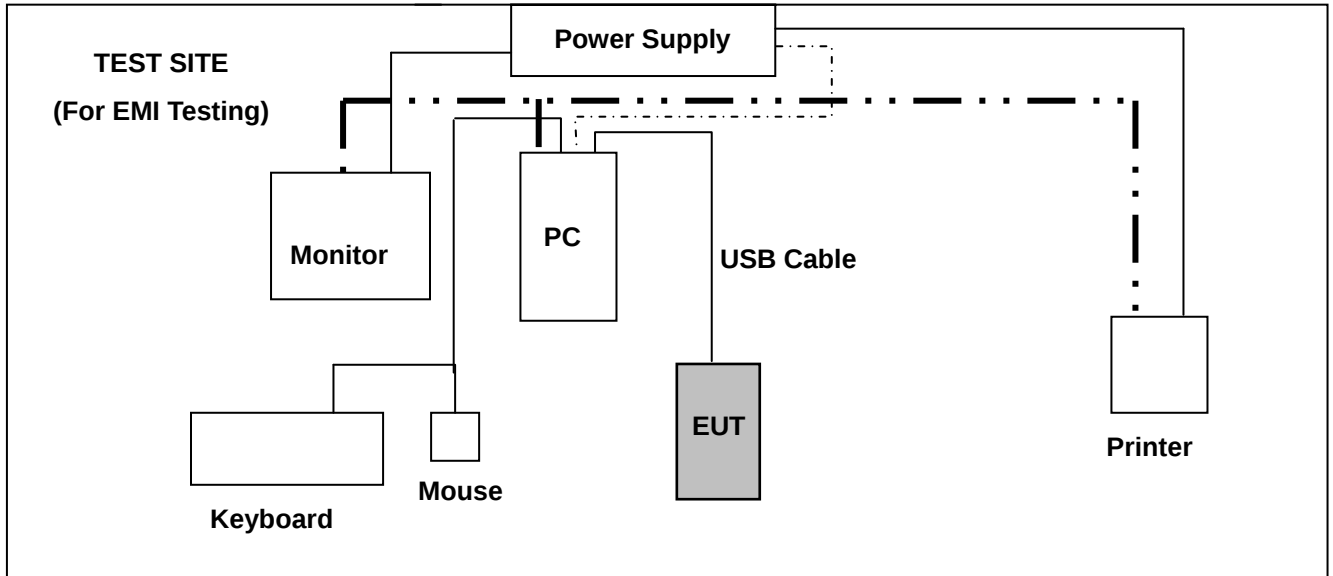


Figure 1. Configuration of System Under Test for PC USB Link

During EMI testing the EUT (RFID Handheld Terminal)'s USB port connected to the USB port of AE PC. A mouse was connected to the mouse port of IBM PC. And a keyboard was connected to the mouse port of IBM PC. And a printer was connected to the parallel port.

AC Adapter Link

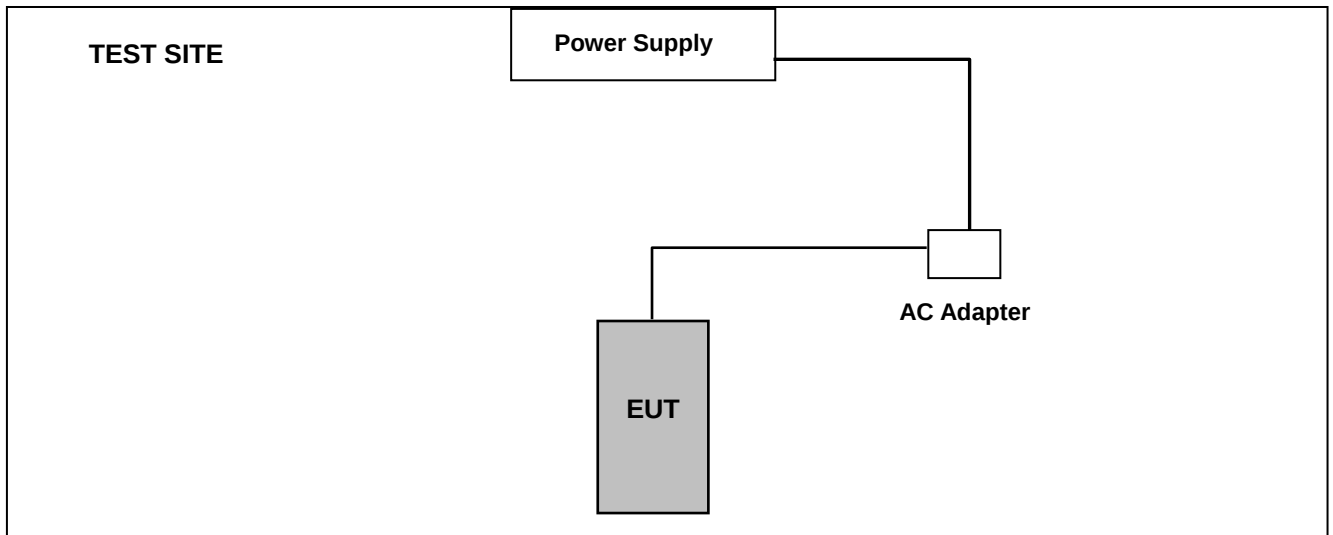


Figure 2. Configuration of System Under Test

During EMI testing (LINK) the EUT (RFID Handheld Terminal)'s Power port was connected to AC Adapter.



1.6 Test Procedure

All measurements contained in this report were performed according to the techniques described in Measurement procedure ANSI C63.4-2003 "Measurement of un-Intentional Radiators."

1.7 General Test Condition

The conditions under which the EUT operates were varied to determine their effect on the equipment's emission characteristics. The final configuration of the test system and the mode of operation used during these tests were chosen as that which produced the highest emission levels. However, only those conditions which the EUT was considered likely to encounter in normal use were investigated. The system's radiated and conducted emissions were investigated while the computer alternately transferred data to the EUT as well as to the monitor and printer. Using a test program which sent a continuous data and transferred data to and from the EUT was proven to worst case emissions. The system's physical layout and cabling was randomly arranged to ensure that maximum emission levels were attained.

1.8 Test Modes

Preliminary tests were performed in different data rate to find the worst case. The data rate shown in the table below is the worst-case rate (Blue color). Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

802.11b		
Channel	Data Rate (Mbps)	Power (dBm)
1	1	18.24
6		19.25
11		17.29

802.11g		
Channel	Data Rate (Mbps)	Power (dBm)
1	6	19.61
6		19.11
11		18.73

Comment:

1. Wi-Fi 802.11b output power worst is 1 of data rate.
2. Wi-Fi 802.11g output power worst is 6 of data rate.



2. Conducted Emissions Requirements

2.1 General & Setup:

The EUT was setup to ANSI C63.4, 2003; tested to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The power line conducted emission measurements were performed in a shielded enclosure. The EUT was assembled on a wooden table which is 80 centimeters high, was placed 40 centimeters from the back wall and at least 1 meter from the sidewall.

Power was fed to the EUT from the public utility power grid through a line filter and EMCO Model 3162/2 SH Line Impedance Stabilization Networks (LISN). The LISN housing, measuring instrumentation case, ground plane, etc., were electrically bonded together at the same RF potential. The Spectrum analyzer was connected to the AC line through an isolation transformer. The 50-ohm output of the LISN was connected to the spectrum analyzer directly. Conducted emission levels were in the CISPR quasi-peak detection mode. The analyzer's 6 dB bandwidth was set to 9 KHz. No post-detector video filter was used.

The spectrum was scanned from 150 KHz to 30 MHz. The physical arrangement of the test system and associated cabling was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude and frequency. All spurious emission frequencies were observed. The highest emission amplitudes relative to the appropriate limit were measured and have been recorded in paragraph 2.6.

2.2 Test Equipment List:

Describe	Manufacturer	Model	Serial Number	Calibration	
				Cal. Date	Due Date
Spectrum Analyzer	Advantest	R3132	160300103	Mar. 06, 2008	Mar. 06, 2009
Test Receiver	R&S	ESCI	100367	Jun. 05, 2008	Jun. 05, 2009
LISN	EMCO	3816/2 SH	00060110	Jun. 03, 2008	Jun. 03, 2009
LISN	EMCO	3816/2 SH	00060111	Jun. 30, 2008	Jun. 30, 2009
Transient Limiter	ELECTRO-METRICS	EM-7600	777	Jun. 26, 2008	Jun. 26, 2009

2.3 Test Configuration:



Figure 3. Front View of the Test Configuration



Figure 4. Rear View of the Test Configuration



2.4 Test condition:

EUT tested in accordance with the specifications given by the Manufacturer, and exercised in the most unfavorable manner.

2.5 Conducted Emissions Limits:

Frequency range (MHz)	Limits (dBuV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5.0	56	46
5.0 to 30	60	50



2.6 Measurement Data of Conducted Emissions:

2.6.1 Conducted Emissions (Subpart C)

The following table show a summary of the highest emissions of power line conducted emissions to the HOT and NATURAL conductor of the EUT power.

Applicant : Applied Wireless Identifications Group Inc.
Model No : HH-6600
EUT : RFID Handheld Terminal
Test Mode : Stand By Mode
Test Date : 01/16/2009

Please refer to next pager of detail testing data.

Notes:

1. L1: One end & Ground L2: The other end & Ground
2. Height of table on which the EUT was placed: 0.8 m.
3. The Quasi-Peak Value have already met the Average Value Limit showed on above limits.
4. The above test results are obtained under the normal condition.

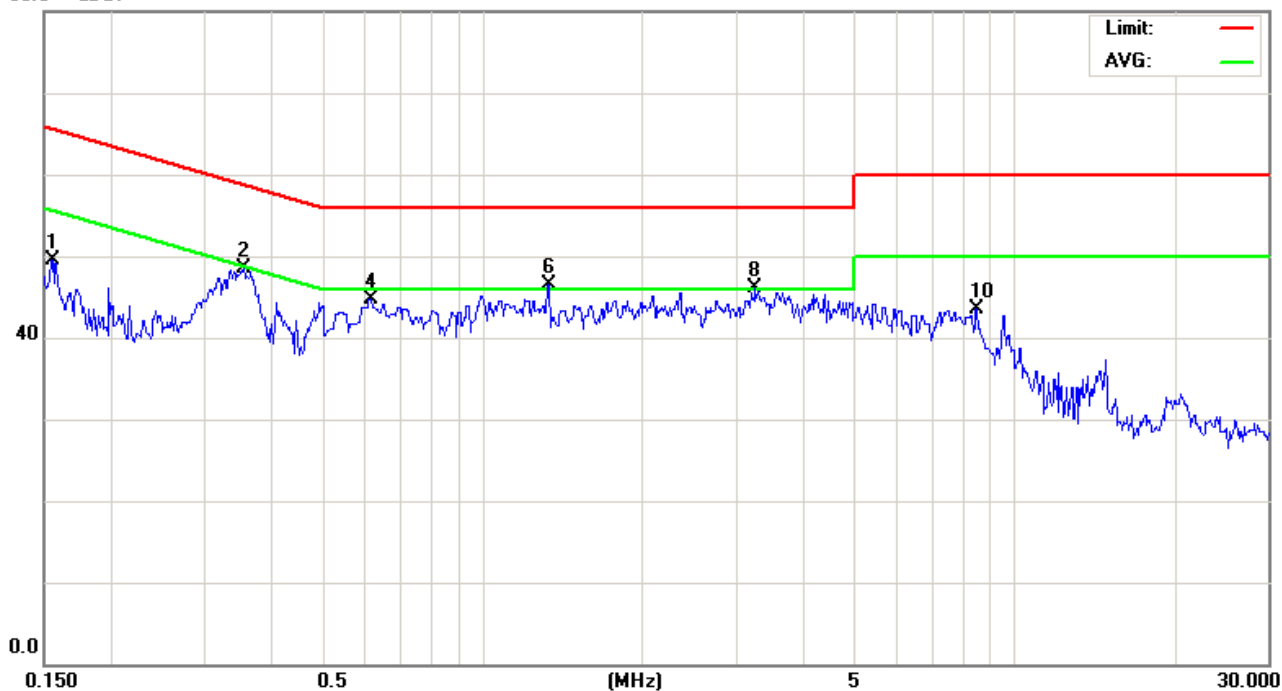


Data :#1

Date: 2009/1/16

Time: 上午 03:43:52

80.0 dBuV



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N: 09-0020-E

Mode: IDLE

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1549	39.86	9.73	49.59	65.73	-16.14	peak	
2		0.3551	38.74	9.78	48.52	58.84	-10.32	peak	
3		0.3551	29.32	9.78	39.10	48.84	-9.74	AVG	
4		0.6170	34.88	9.79	44.67	56.00	-11.33	peak	
5		0.6170	21.51	9.79	31.30	46.00	-14.70	AVG	
6	*	1.3280	36.76	9.82	46.58	56.00	-9.42	peak	
7		1.3280	23.48	9.82	33.30	46.00	-12.70	AVG	
8		3.2540	36.26	9.91	46.17	56.00	-9.83	peak	
9		3.2540	21.19	9.91	31.10	46.00	-14.90	AVG	
10		8.5000	33.39	10.09	43.48	60.00	-16.52	peak	

*:Maximum data x:Over limit !:over margin

●Reference Only

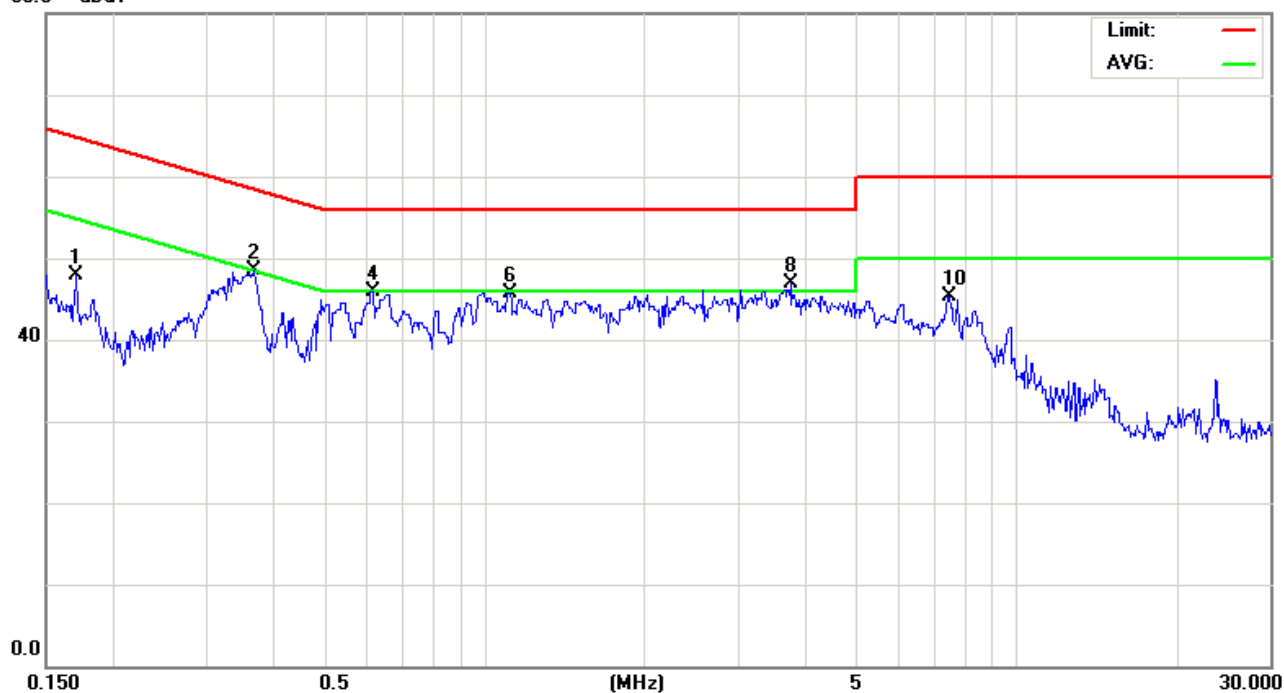


Data :#2

Date: 2009/1/16

Time: 上午 03:51:58

80.0 dBuV



Site site#1

Phase: L2

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N: 09-0020-E

Mode: IDLE

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1710	38.15	9.73	47.88	64.91	-17.03	peak	
2		0.3691	38.75	9.78	48.53	58.52	-9.99	peak	
3	*	0.3691	30.62	9.78	40.40	48.52	-8.12	AVG	
4		0.6170	36.11	9.79	45.90	56.00	-10.10	peak	
5		0.6170	25.11	9.79	34.90	46.00	-11.10	AVG	
6		1.1119	35.97	9.80	45.77	56.00	-10.23	peak	
7		1.1119	23.90	9.80	33.70	46.00	-12.30	AVG	
8		3.7580	36.89	9.95	46.84	56.00	-9.16	peak	
9		3.7580	23.05	9.95	33.00	46.00	-13.00	AVG	
10		7.4500	35.22	10.09	45.31	60.00	-14.69	peak	

*:Maximum data x:Over limit !:over margin

●Reference Only



2.6.2 Conducted Emissions (Subpart C)

The following table show a summary of the highest emissions of power line conducted emissions to the HOT and NATURAL conductor of the EUT power.

Applicant : Applied Wireless Identifications Group Inc.
Model No : HH-6600
EUT : RFID Handheld Terminal
Test Mode : AC Adapter _ 802.11b CH Low & Middle & High
Test Date : 01/16/2009

Please refer to next pager of detail testing data.

Notes:

1. L1: One end & Ground L2: The other end & Ground
2. Height of table on which the EUT was placed: 0.8 m.
3. The Quasi-Peak Value have already met the Average Value Limit showed on above limits.
4. The above test results are obtained under the normal condition.

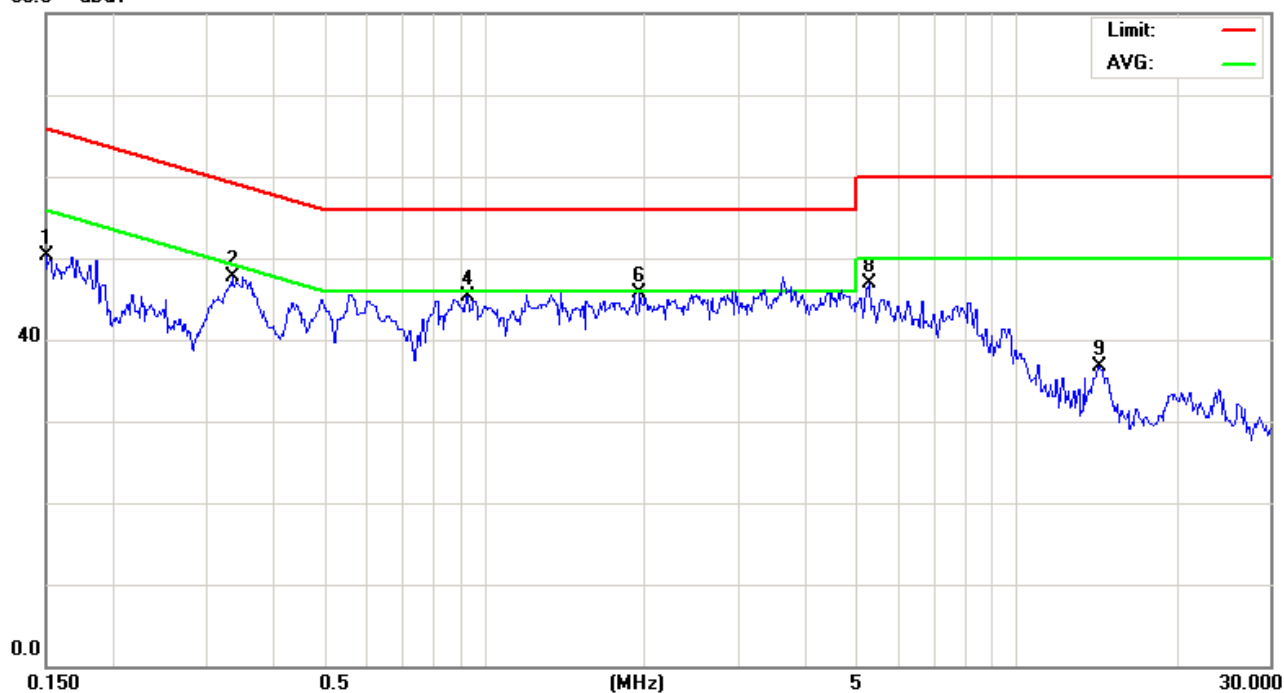


Data :#1

Date: 2009/1/16

Time: 上午 01:57:56

80.0 dBuV



Site site#1

Phase: L1

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N: 09-0020-E

Mode: WIFI(11b)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	40.49	9.73	50.22	65.99	-15.77	peak	
2		0.3347	37.97	9.78	47.75	59.33	-11.58	peak	
3		0.3347	24.32	9.78	34.10	49.33	-15.23	AVG	
4		0.9320	35.45	9.81	45.26	56.00	-10.74	peak	
5		0.9320	23.59	9.81	33.40	46.00	-12.60	AVG	
6	*	1.9579	35.82	9.84	45.66	56.00	-10.34	peak	
7		1.9579	22.76	9.84	32.60	46.00	-13.40	AVG	
8		5.3000	36.82	10.06	46.88	60.00	-13.12	peak	
9		14.2500	26.59	10.20	36.79	60.00	-23.21	peak	

*:Maximum data x:Over limit !:over margin

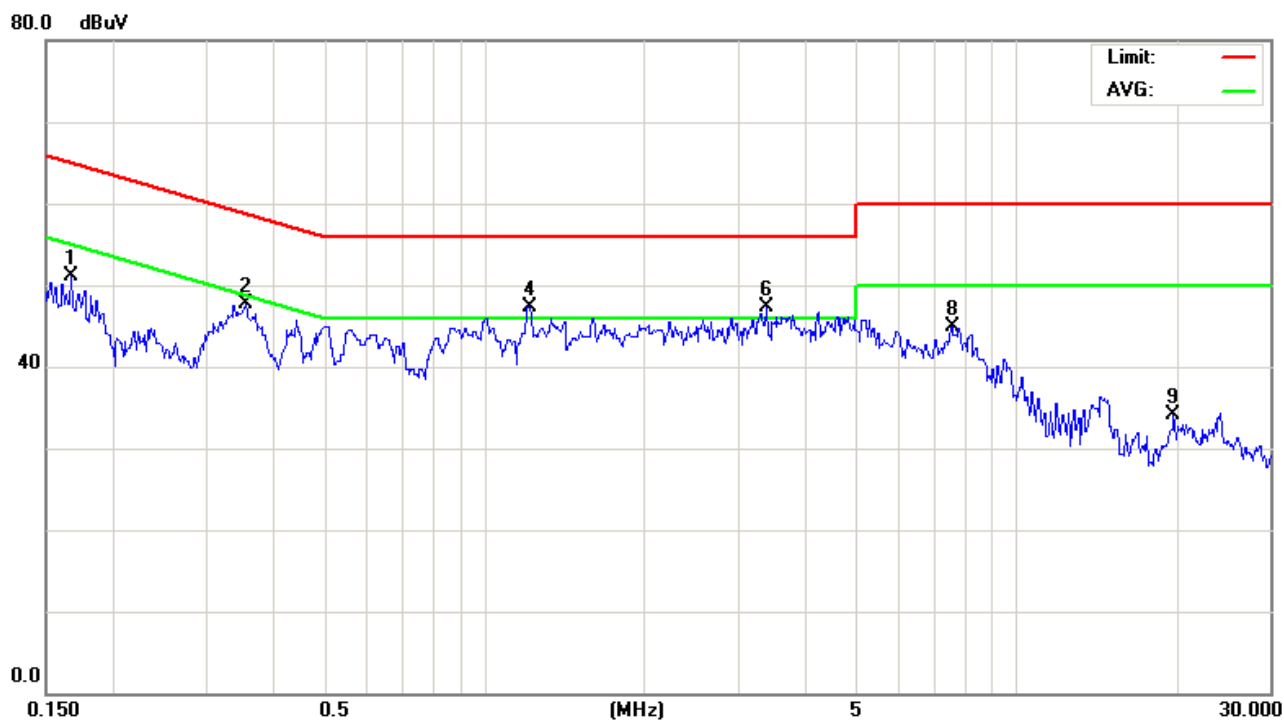
●Reference Only



Data :#2

Date: 2009/1/16

Time: 上午 01:59:31



Site site#1

Phase: **L2**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N: 09-0020-E

Mode: WIFI(11b)

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1668	41.42	9.73	51.15	65.11	-13.96	peak	
2		0.3558	37.86	9.78	47.64	58.82	-11.18	peak	
3		0.3558	24.62	9.78	34.40	48.82	-14.42	AVG	
4		1.2109	37.50	9.81	47.31	56.00	-8.69	peak	
5		1.2109	23.49	9.81	33.30	46.00	-12.70	AVG	
6	*	3.3890	37.42	9.94	47.36	56.00	-8.64	peak	
7		3.3890	22.06	9.94	32.00	46.00	-14.00	AVG	
8		7.5500	34.74	10.09	44.83	60.00	-15.17	peak	
9		19.7000	23.91	10.26	34.17	60.00	-25.83	peak	

*:Maximum data x:Over limit !:over margin

●Reference Only



2.6.3 Conducted Emissions (Subpart C)

The following table show a summary of the highest emissions of power line conducted emissions to the HOT and NATURAL conductor of the EUT power.

Applicant : Applied Wireless Identifications Group Inc.
Model No : HH-6600
EUT : RFID Handheld Terminal
Test Mode : AC Adapter _ 802.11g CH Low & Middle & High
Test Date : 01/16/2009

Please refer to next pager of detail testing data.

Notes:

1. L1: One end & Ground L2: The other end & Ground
2. Height of table on which the EUT was placed: 0.8 m.
3. The Quasi-Peak Value have already met the Average Value Limit showed on above limits.
4. The above test results are obtained under the normal condition.

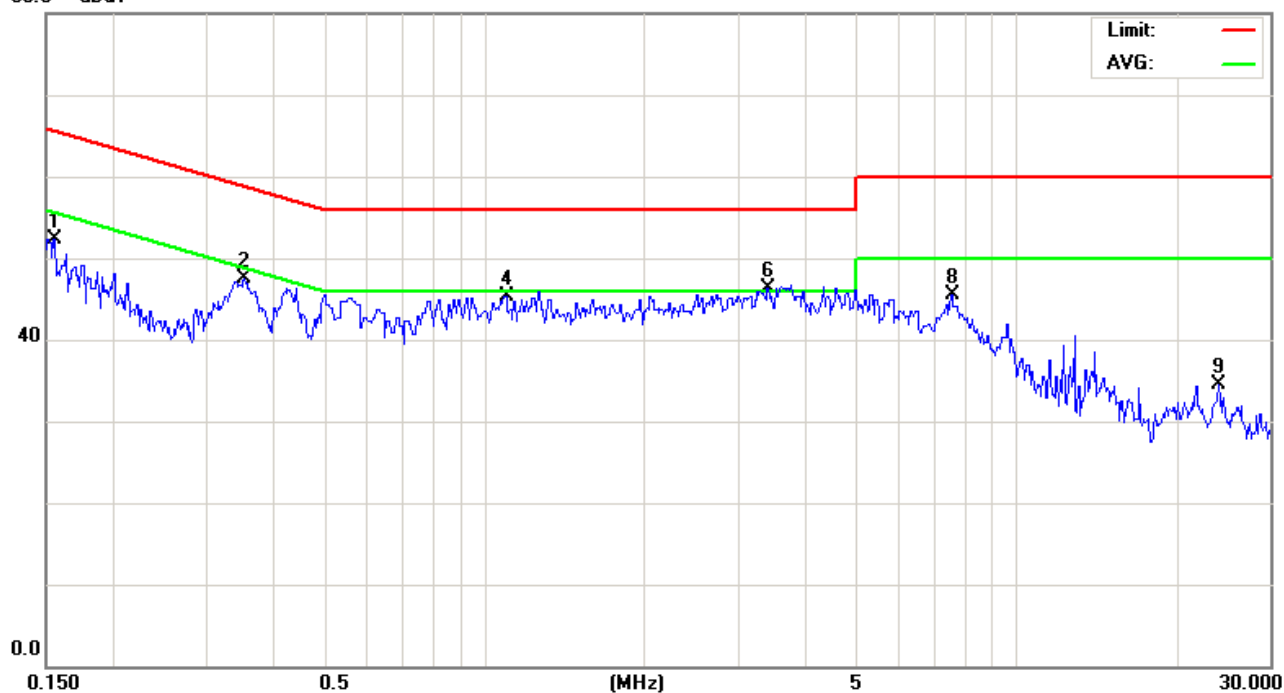


Data :#1

Date: 2009/1/16

Time: 上午 02:06:37

80.0 dBuV



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N: 09-0020-E

Mode: WIFI(11g)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1549	42.63	9.73	52.36	65.73	-13.37	peak	
2		0.3530	37.73	9.78	47.51	58.89	-11.38	peak	
3		0.3530	24.72	9.78	34.50	48.89	-14.39	AVG	
4		1.0940	35.50	9.80	45.30	56.00	-10.70	peak	
5		1.0940	22.60	9.80	32.40	46.00	-13.60	AVG	
6	*	3.4070	36.30	9.95	46.25	56.00	-9.75	peak	
7		3.4070	21.85	9.95	31.80	46.00	-14.20	AVG	
8		7.5500	35.34	10.09	45.43	60.00	-14.57	peak	
9		23.9500	24.21	10.30	34.51	60.00	-25.49	peak	

*:Maximum data x:Over limit !:over margin

●Reference Only

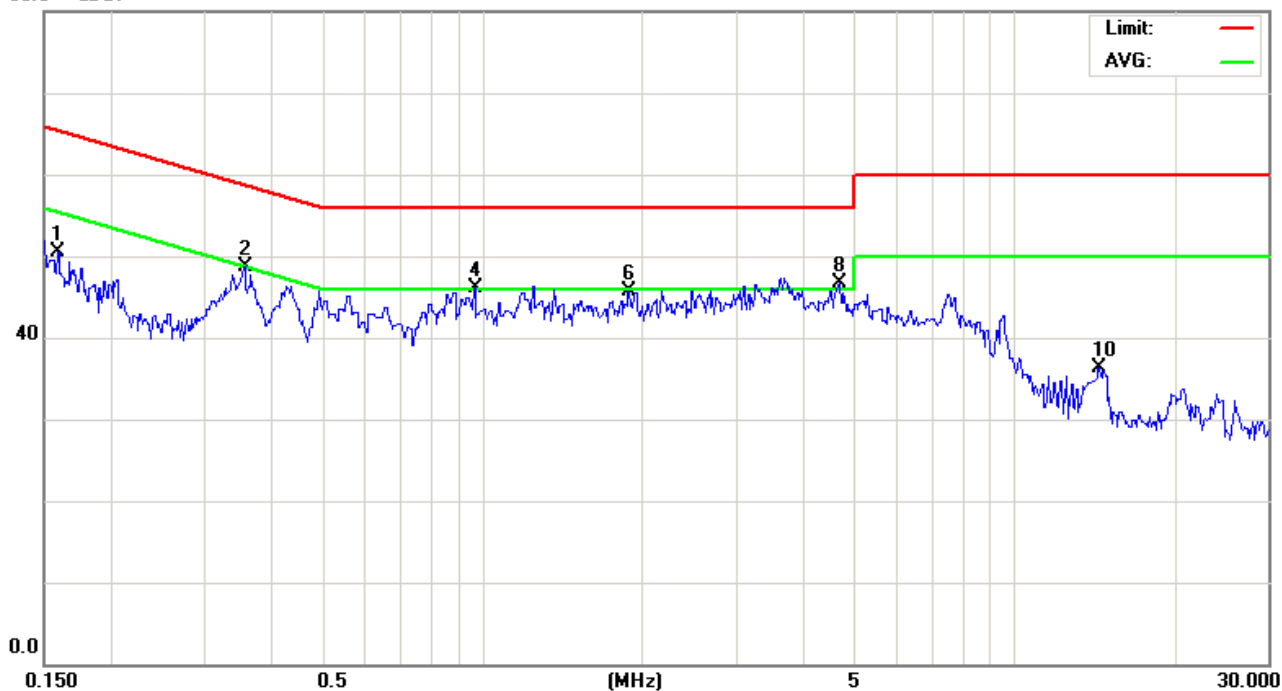


Data :#2

Date: 2009/1/16

Time: 上午 02:08:11

80.0 dBuV



Site site#1

Phase: **L2**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N: 09-0020-E

Mode: WIFI(11g)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1590	40.74	9.73	50.47	65.51	-15.04	peak	
2		0.3565	38.86	9.78	48.64	58.81	-10.17	peak	
3		0.3565	25.62	9.78	35.40	48.81	-13.41	AVG	
4		0.9680	36.34	9.81	46.15	56.00	-9.85	peak	
5		0.9680	17.69	9.81	27.50	46.00	-18.50	AVG	
6		1.8860	35.91	9.83	45.74	56.00	-10.26	peak	
7		1.8860	17.37	9.83	27.20	46.00	-18.80	AVG	
8	*	4.6850	36.74	10.01	46.75	56.00	-9.25	peak	
9		4.6850	16.69	10.01	26.70	46.00	-19.30	AVG	
10		14.4000	26.13	10.20	36.33	60.00	-23.67	peak	

*:Maximum data x:Over limit !:over margin

●Reference Only



3. Radiated Emissions Requirements

3.1 Final radiation measurements were made on a three-meter:

The EUT was setup to ANSI C63.4, 2003; tested to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Final radiation measurements were made on a three-meter, Semi Anechoic Chamber. The EUT system was placed on a nonconductive turntable which is 0.8 meters height, top surface 1.0 x 1.5 meter. The spectrum was examined from 250 MHz to 2.5 GHz in order to cover the whole spectrum below 10th harmonic which could generate from the EUT. During the test, EUT was set to transmit continuously & Measurements spectrum range from 30 MHz to 26.5 GHz is investigated.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

A nonconductive material surrounded the EUT to supporting the EUT for standing on three orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

SCHWARZBECK MESS-ELEKTRONIK Biconilog Antenna (model VULB9163) at 3 Meter and the SCHWARZBECK Double Ridged Guide Antenna (model BBHA9120D&9170) was used in frequencies 1 – 26.5 GHz at a distance of 1 meter. All test results were extrapolated to equivalent signal at 3 meters utilizing an inverse linear distance extrapolation Factor (20dB/decade).



For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post – detector video filters were used in the test.

The spectrum analyzer's 6 dB bandwidth was set to 1 MHz, and the analyzer was operated in the peak detection mode, for frequencies both below and up 1 GHz. The average levels were obtained by subtracting the duty cycle correction factor from the peak readings.

The following procedures were used to convert the emission levels measured in decibels referenced to 1 microvolt (dBuV) into field intensity in micro volts per meter (uV/m).

The actual field intensity in decibels referenced to 1 microvolt in to field intensity in micro volts per meter (dBuV/m).

The actual field intensity in referenced to 1 microvolt per meter (dBuV/m) is determined by algebraically adding the measured reading in dBuV, the antenna factor (dB), and cable loss (dB) and Subtracting the gain of preamplifier (dB) is auto calculate in spectrum analyzer.

$$(1) \text{ Amplitude (dBuV/m) = FI (dBuV) + AF (dBuV) + CL (dBuV) - Gain (dB)}$$

FI= Reading of the field intensity.

AF= Antenna factor.

CL= Cable loss.

P.S Amplitude is auto calculate in spectrum analyzer.

$$(2) \text{ Actual Amplitude (dBuV/m) = Amplitude (dBuV) - Dis(dB)}$$

The FCC specified emission limits were calculated according the EUT operating frequency and by following linear interpolation equations:

(a) For fundamental frequency :

Transmitter Output < +30dBm

(b) For spurious frequency :

Spurious emission limits = fundamental emission limit /10



3.2 Test Equipment List:

Describe	Manufacturer	Model	Serial Number	Calibration	
				Cal. Date	Due Date
Spectrum Analyzer	Agilent	E4408B	MY45107753	Jun. 05, 2008	Jun. 05, 2009
Pre Amplifier	Agilent	8449B	3008A02237	Jun. 03, 2008	Jun. 03, 2009
Pre Amplifier	Agilent	8447D	2944A10961	Jun. 10, 2008	Jun. 10, 2009
Test Receiver	R&S	ESCI	100367	Jun. 05, 2008	Jun. 05, 2009
Biconilog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	Jun. 26, 2008	Jun. 26, 2009
Horn Antenna	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	Jun. 26, 2008	Jun. 26, 2009
Horn Antenna	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	Jun. 09, 2008	Jun. 09, 2009
Horn Antenna	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120E	0899	Jun. 26, 2008	Jun. 26, 2009

3.3 Test Configuration:

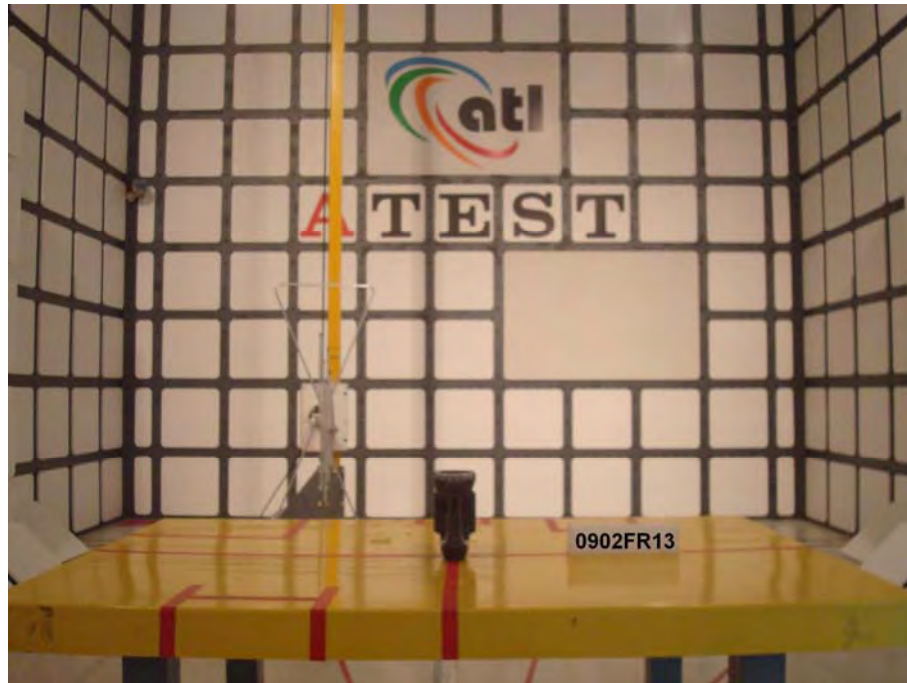


Figure 5. Front View of the Test Configuration

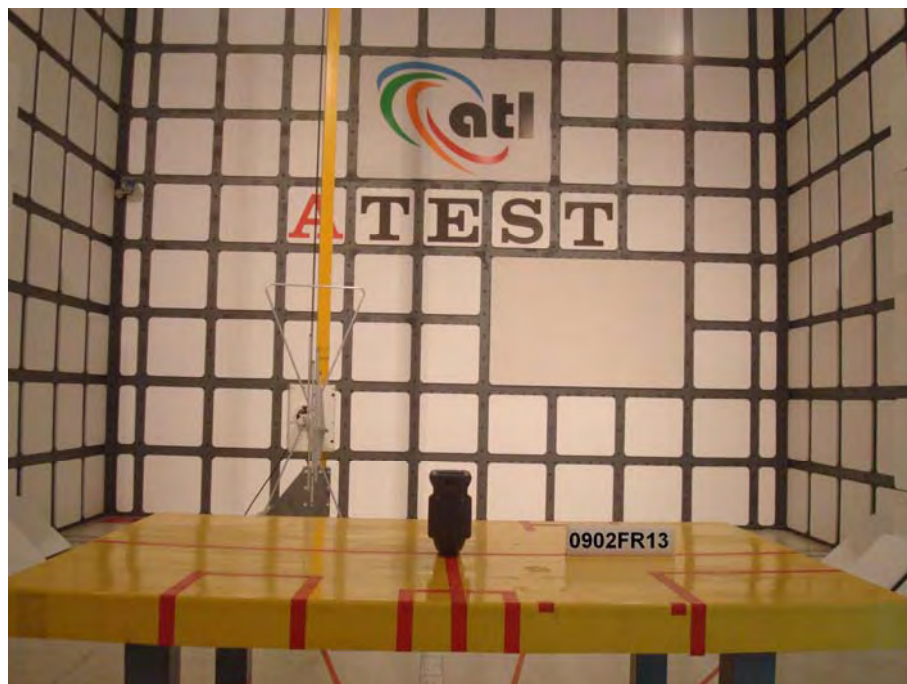


Figure 6. Rear View of the Test Configuration

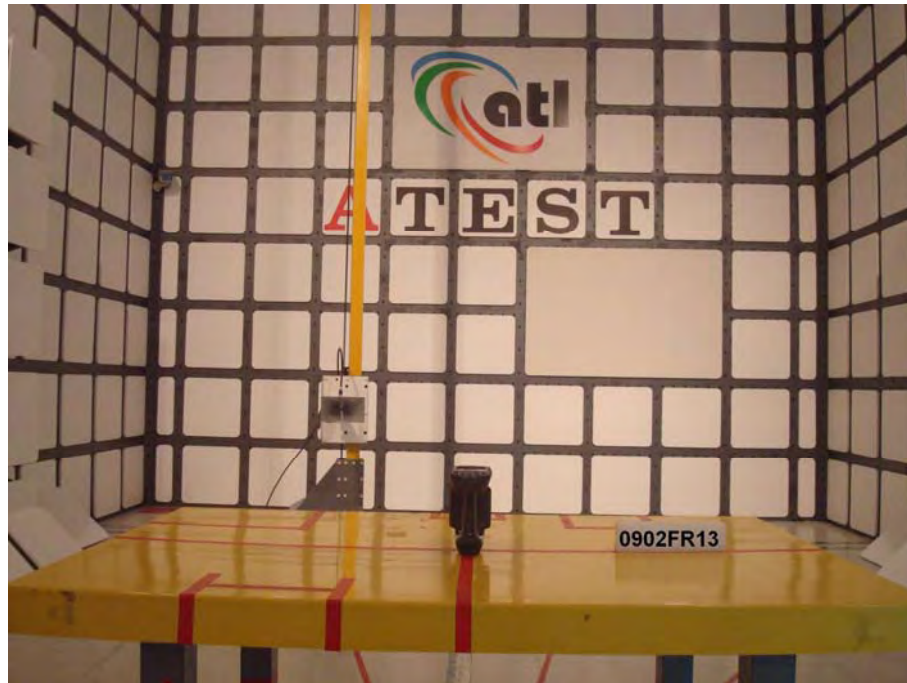


Figure 7. Front View of the Test Configuration



Figure 8. Rear View of the Test Configuration



3.4 Test condition:

EUT tested in accordance with the specifications given by the manufacturer, and exercised in the most unfavorable manner.

3.5 Radiated Emissions Limits:

Frequency range (MHz)	Peak(dBuV)
30 to 88	40
88 to 216	43.5
216 to 960	46
Above 960	54



3.6 Measurement Data of Radiated Emissions:

3.6.1 Open Field Radiated Emissions (Subpart C)

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation, etc. are recorded on the following.

Applicant : Applied Wireless Identifications Group Inc.
Model No : HH-6600
EUT : RFID Handheld Terminal
Test Mode : AC Adapter _ 802.11b CH1 2412.000 (Local Frequency: 2412.000 MHz)
Test Date : 02/06 ~ 02/24/2009

Please refer to next pager of detail testing data.

Notes:

1. Margin= Amplitude - Limits
2. Distance of Measurement: 3 Meter (30-1000MHz) & (1-10GHz), 1 Meter (10-26.5GHz)
3. Height of table for EUT placed: 0.8 Meter.
4. ANT= Antenna height.
5. Amplitude= Reading Amplitude – Amplifier gain + Cable loss + Antenna factor
(Auto calculate in spectrum analyzer)
6. The EUT was worst case on X axis after pretest on X & Y & Z axis setting.
7. The testing data only show below 18GHz's data because measure data above 18GHz was only ambient noise.
8. All frequencies from 30MHz to 26.5GHz have been tested



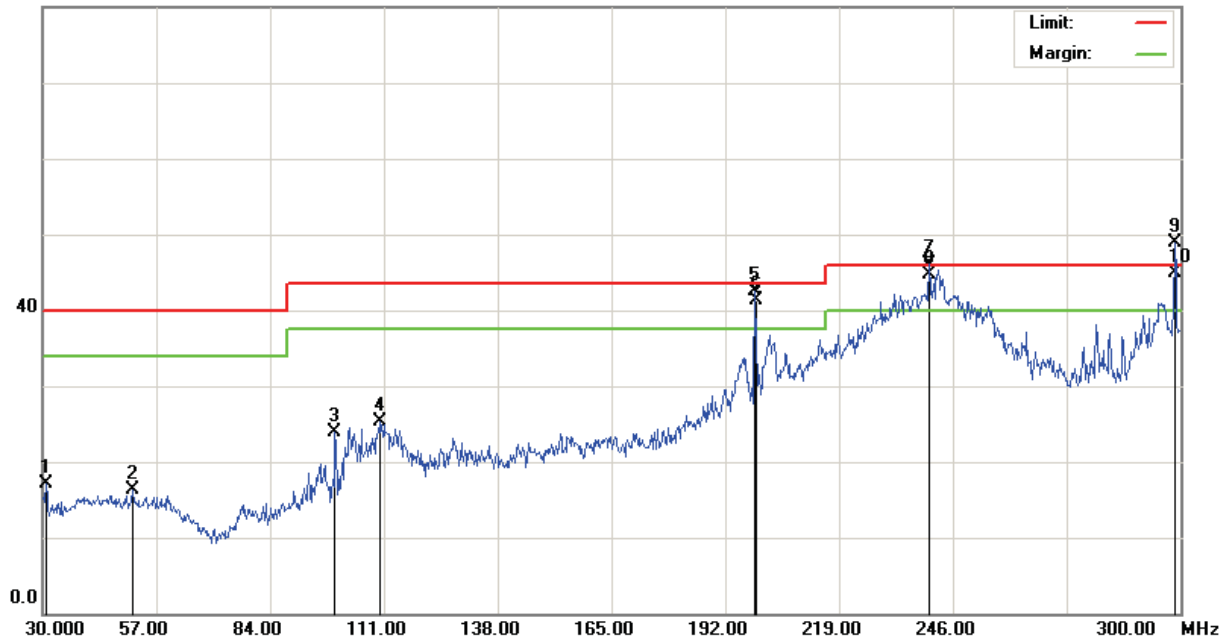
File :RH767(11b)

Data :#1

Date: 2009/2/24

Time:

80.0 dBuV



Site

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0020-E

Mode: WIFI(11b)

Note: 2412

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1		30.8100	30.38	-13.30	17.08	40.00	-22.92			peak
2		51.3300	28.50	-12.17	16.33	40.00	-23.67			peak
3		99.3900	35.75	-11.80	23.95	43.50	-19.55			peak
4		110.1900	37.89	-12.54	25.35	43.50	-18.15			peak
5	!	199.0200	55.75	-13.16	42.59	43.50	-0.91			peak
6	!	199.0533	54.43	-13.16	41.27	43.50	-2.23	102	341	QP
7	X	240.3300	57.60	-11.42	46.18	46.00	0.18			peak
8	!	240.3300	56.10	-11.42	44.68	46.00	-1.32			QP
9	*	298.5807	58.95	-10.04	48.91	46.00	2.91			peak
10	!	298.5807	54.86	-10.04	44.82	46.00	-1.18	162	2	QP

*:Maximum data x:Over limit !:over margin

●Reference Only



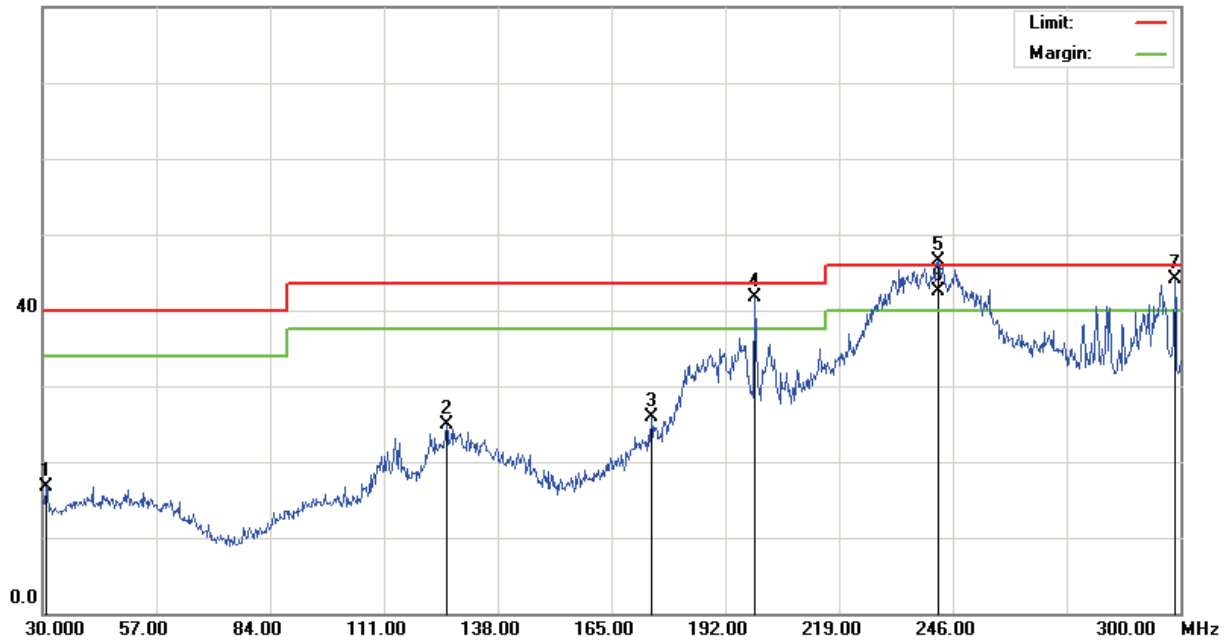
File :RH767(11b)

Data :#3

Date: 2009/2/24

Time:

80.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0020-E

Mode: WIFI(11b)

Note: 2412

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree	Comment
1		30.8100	30.06	-13.30	16.76	40.00	-23.24	peak		
2		125.8500	40.05	-15.14	24.91	43.50	-18.59	peak		
3		174.4500	40.64	-14.72	25.92	43.50	-17.58	peak		
4	!	199.0200	54.90	-13.16	41.74	43.50	-1.76	peak		
5	*	242.4900	57.93	-11.34	46.59	46.00	0.59	peak		
6	!	242.4900	53.87	-11.34	42.53	46.00	-3.47	QP	122	293
7	!	298.6500	54.05	-10.04	44.01	46.00	-1.99	peak		

*:Maximum data x:Over limit !:over margin

●Reference Only



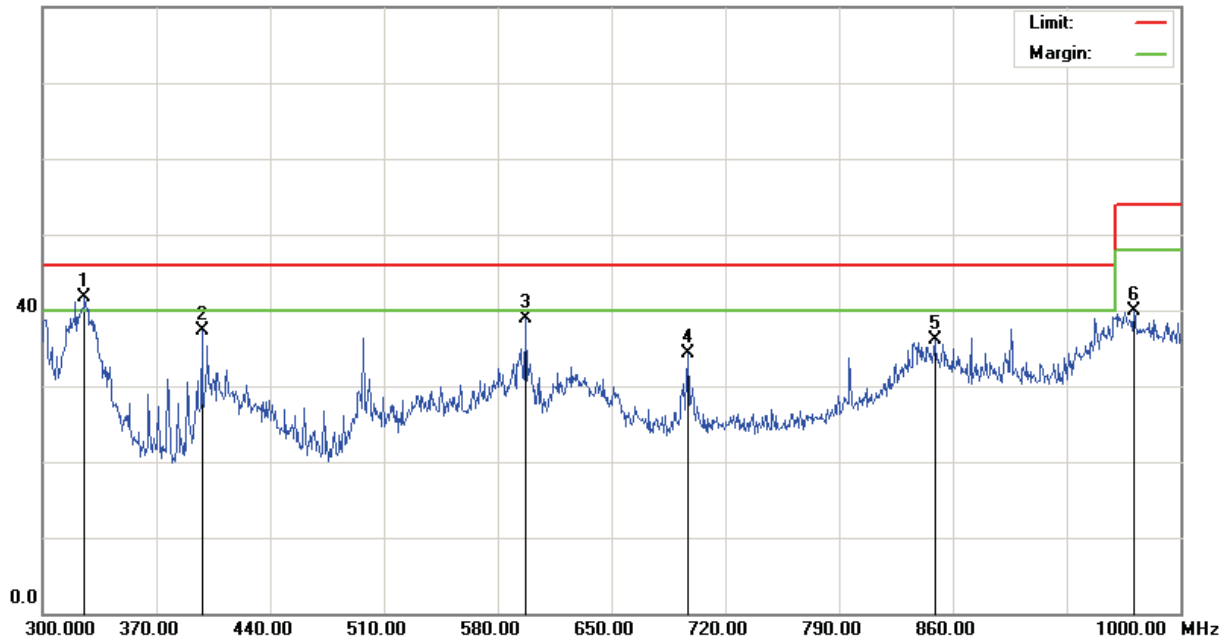
File :RH767(11b)

Data :#2

Date: 2009/2/24

Time:

80.0 dBuV



Site

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0020-E

Mode: WIFI(11b)

Note: 2412

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	325.9000	51.28	-9.57	41.71	46.00	-4.29	peak		
2		398.0000	45.67	-8.39	37.28	46.00	-8.72	peak		
3		597.5000	43.82	-4.89	38.93	46.00	-7.07	peak		
4		696.9000	38.18	-3.85	34.33	46.00	-11.67	peak		
5		848.8000	37.34	-1.25	36.09	46.00	-9.91	peak		
6		971.3000	39.19	0.70	39.89	54.00	-14.11	peak		

*:Maximum data x:Over limit !:over margin

●Reference Only



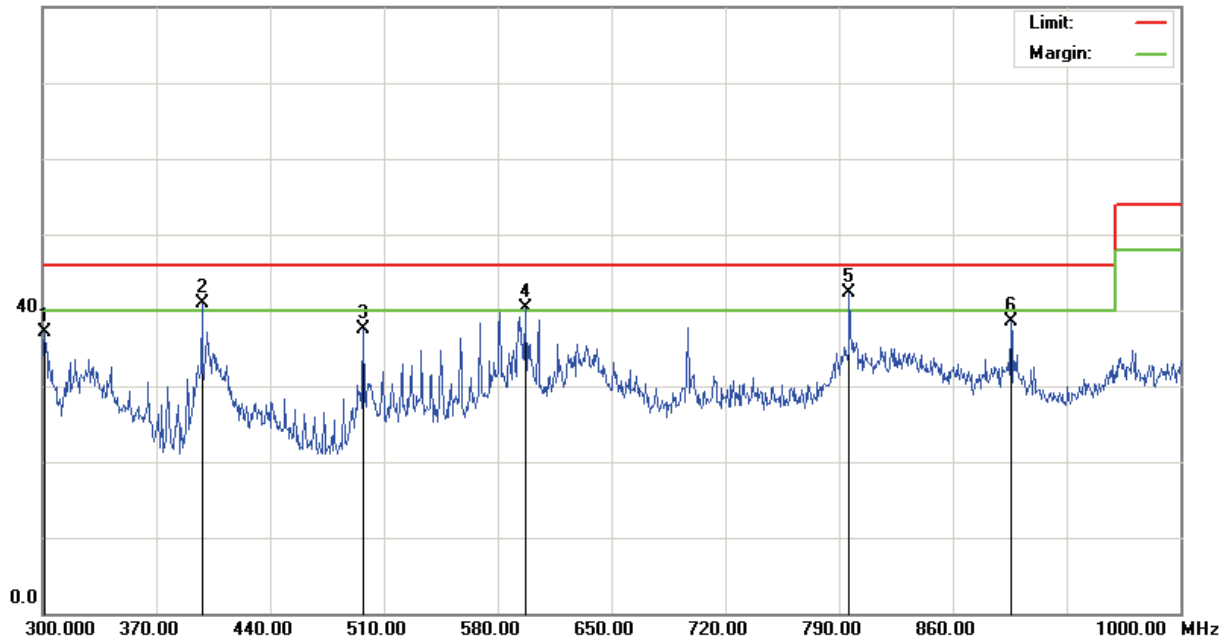
File :RH767(11b)

Data :#4

Date: 2009/2/24

Time:

80.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0020-E

Mode: WIFI(11b)

Note: 2412

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	301.4000	47.22	-10.02	37.20	46.00	-8.80	peak		
2	!	398.0000	49.23	-8.39	40.84	46.00	-5.16	peak		
3		497.4000	44.70	-7.12	37.58	46.00	-8.42	peak		
4	!	596.8000	45.17	-4.88	40.29	46.00	-5.71	peak		
5	*	796.3000	44.68	-2.35	42.33	46.00	-3.67	peak		
6		895.7000	38.91	-0.49	38.42	46.00	-7.58	peak		

*:Maximum data x:Over limit !:over margin

●Reference Only



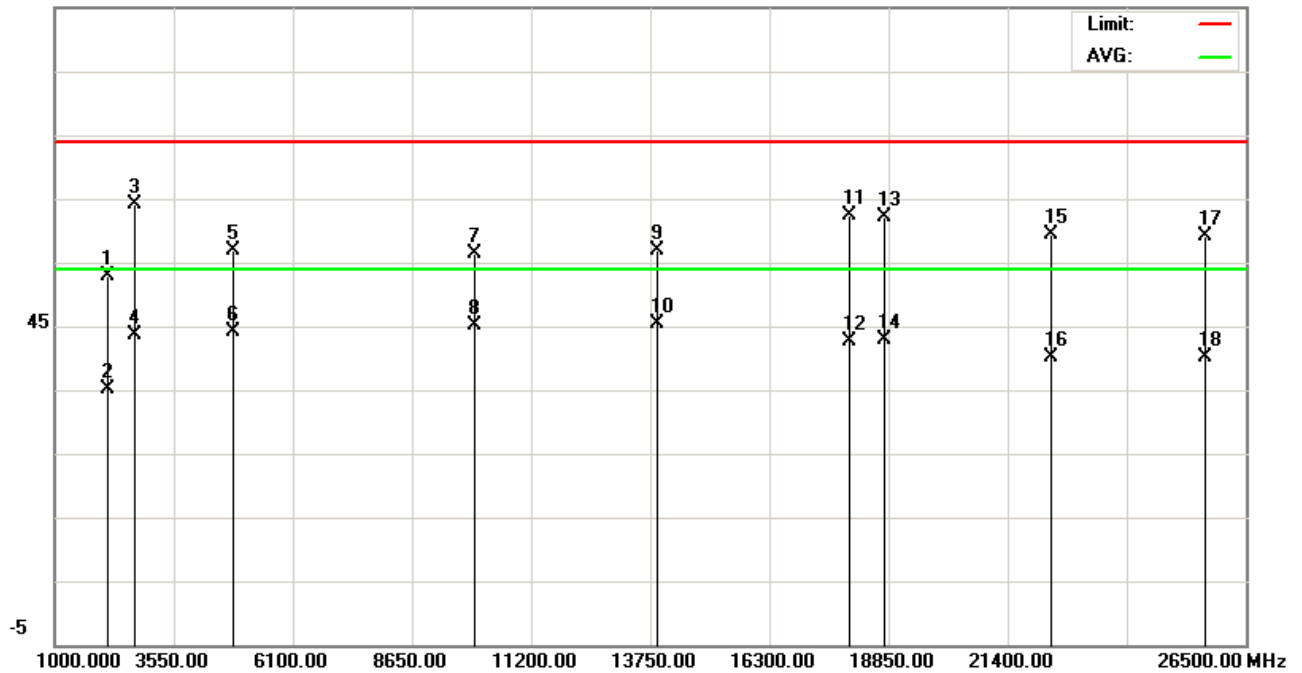
File :RH767(CH01)

Data :#14

Date: 2009/2/6

Time: 上午 02:31:07

95.0 dBuV



Site site#1

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance:

M/N: 09-0020-E

Mode: WIFI(11b)

Note: CH01(2412MHz) , Antenna100cm , NB01

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2132.200	53.16	-0.21	52.95	74.00	-21.05	peak		
2		2132.200	35.37	-0.21	35.16	54.00	-18.84	AVG		
3		2700.000	41.49	22.58	64.07	74.00	-9.93	peak		
4		2700.000	21.06	22.58	43.64	54.00	-10.36	AVG		
5		4817.000	49.52	7.42	56.94	74.00	-17.06	peak		
6		4817.000	36.77	7.42	44.19	54.00	-9.81	AVG		
7		9981.750	38.44	17.88	56.32	74.00	-17.68	peak		
8		9981.750	27.29	17.88	45.17	54.00	-8.83	AVG		
9		13880.00	38.58	18.38	56.96	74.00	-17.04	peak		
10	*	13880.00	26.94	18.38	45.32	54.00	-8.68	AVG		
11		18000.00	36.70	25.57	62.27	74.00	-11.73	peak		
12		18000.00	17.10	25.57	42.67	54.00	-11.33	AVG		
13		18743.75	39.04	23.13	62.17	74.00	-11.83	peak		

*:Maximum data x:Over limit !:over margin

●Reference Only



Site site#1

Limit: FCC part 15 (PK)

EUT:

M/N: 09-0020-E

Mode: WIFI(11b)

Note: CH01(2412MHz) , Antenna100cm , NB01

Polarization: **Vertical**

Power:

Distance:

Temperature: 22 °C

Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree
14		18743.75	19.69	23.13	42.82	54.00	-11.18	AVG		
15		22313.75	38.45	20.97	59.42	74.00	-14.58	peak		
16		22313.75	19.24	20.97	40.21	54.00	-13.79	AVG		
17		25628.75	40.29	18.89	59.18	74.00	-14.82	peak		
18		25628.75	21.31	18.89	40.20	54.00	-13.80	AVG		

*:Maximum data x:Over limit !:over margin

●Reference Only



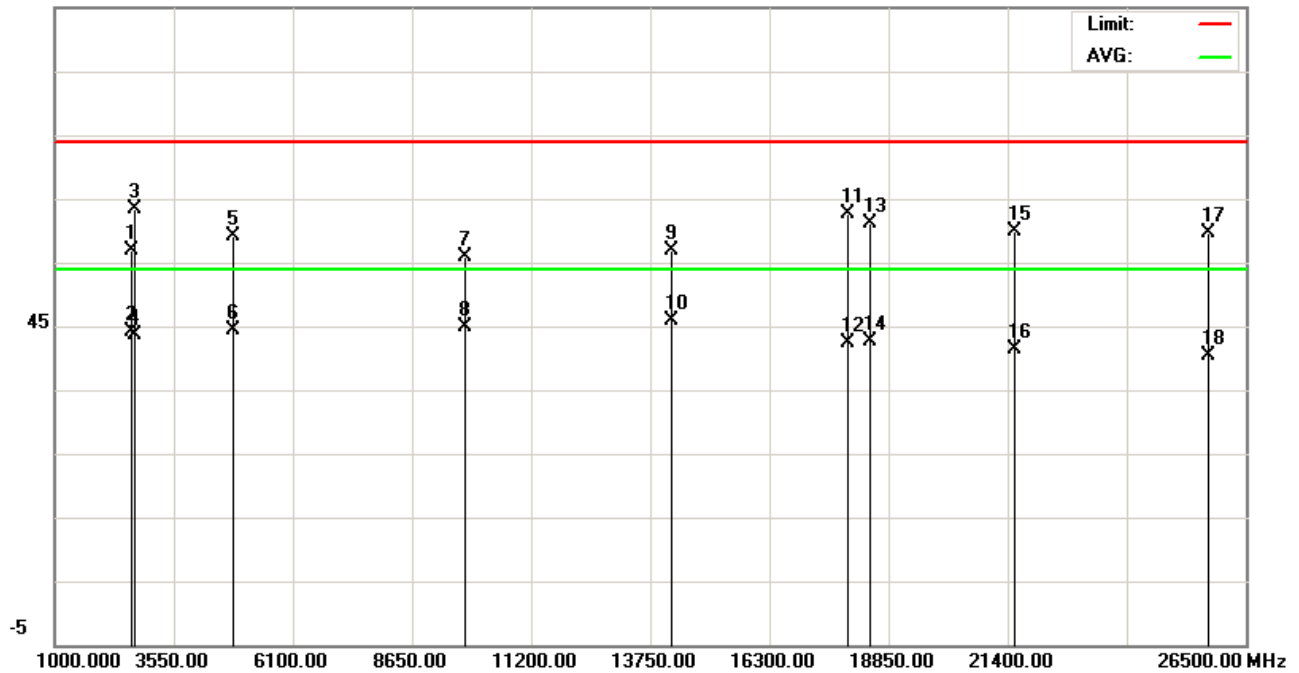
File :RH767(CH01)

Data :#16

Date: 2009/2/6

Time: 上午 02:35:06

95.0 dBuV



Site site#1

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance:

M/N: 09-0020-E

Mode: WIFI(11b)

Note: CH01(2412MHz) , Antenna100cm , NB01

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2628.600	55.95	0.89	56.84	74.00	-17.16	peak		
2		2628.600	43.16	0.89	44.05	54.00	-9.95	AVG		
3		2700.000	40.75	22.58	63.33	74.00	-10.67	peak		
4		2700.000	21.01	22.58	43.59	54.00	-10.41	AVG		
5		4817.000	51.75	7.42	59.17	74.00	-14.83	peak		
6		4817.000	37.00	7.42	44.42	54.00	-9.58	AVG		
7		9762.750	38.18	17.70	55.88	74.00	-18.12	peak		
8		9762.750	27.23	17.70	44.93	54.00	-9.07	AVG		
9		14200.00	38.02	18.86	56.88	74.00	-17.12	peak		
10	*	14200.00	27.00	18.86	45.86	54.00	-8.14	AVG		
11		17980.00	37.33	25.21	62.54	74.00	-11.46	peak		
12		17980.00	17.26	25.21	42.47	54.00	-11.53	AVG		
13		18467.50	38.02	23.12	61.14	74.00	-12.86	peak		

*:Maximum data x:Over limit !:over margin

●Reference Only



Site site#1

Limit: FCC part 15 (PK)

EUT:

M/N: 09-0020-E

Mode: WIFI(11b)

Note: CH01(2412MHz) , Antenna100cm , NB01

Polarization: **Horizontal**

Power:

Distance:

Temperature: 22 °C

Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree
14		18467.50	19.47	23.12	42.59	54.00	-11.41	AVG		
15		21548.75	38.66	21.33	59.99	74.00	-14.01	peak		
16		21548.75	19.94	21.33	41.27	54.00	-12.73	AVG		
17		25671.25	40.84	18.85	59.69	74.00	-14.31	peak		
18		25671.25	21.50	18.85	40.35	54.00	-13.65	AVG		

*:Maximum data x:Over limit !:over margin

●Reference Only



3.6.2 Open Field Radiated Emissions (Subpart C)

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation, etc. are recorded on the following

Applicant : Applied Wireless Identifications Group Inc.
Model No : HH-6600
EUT : RFID Handheld Terminal
Test Mode : AC Adapter _ 802.11b CH6 2437.000 (Local Frequency: 2437.000 MHz)
Test Date : 02/06 ~ 02/24/2009

Please refer to next pager of detail testing data.

Notes:

1. Margin= Amplitude - Limits
2. Distance of Measurement: 3 Meter (30-1000MHz) & (1-10GHz), 1 Meter (10-26.5GHz)
3. Height of table for EUT placed: 0.8 Meter.
4. ANT= Antenna height.
5. Amplitude= Reading Amplitude – Amplifier gain + Cable loss + Antenna factor
(Auto calculate in spectrum analyzer)
6. The EUT was worst case on X axis after pretest on X & Y & Z axis setting.
7. The testing data only show below 18GHz's data because measure data above 18GHz was only ambient noise.
8. All frequencies from 30MHz to 26.5GHz have been tested



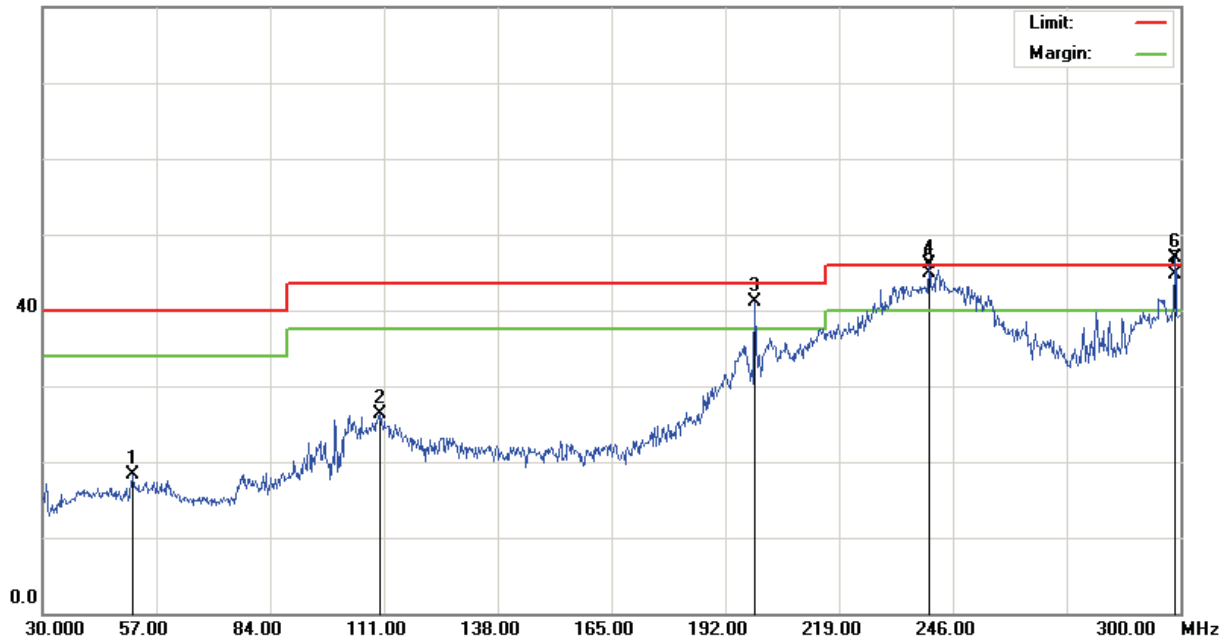
File :RH767(11b)

Data :#5

Date: 2009/2/24

Time:

80.0 dBuV



Site

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0020-E

Mode: WIFI(11b)

Note: 2437

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		51.3300	30.50	-12.17	18.33	40.00	-21.67	peak		
2		110.1900	38.89	-12.54	26.35	43.50	-17.15	peak		
3	!	199.0200	54.25	-13.16	41.09	43.50	-2.41	peak		
4	X	240.3300	57.60	-11.42	46.18	46.00	0.18	peak		
5	!	240.3300	56.30	-11.42	44.88	46.00	-1.12	QP		
6	*	298.6500	56.95	-10.04	46.91	46.00	0.91	peak		
7	!	298.6500	54.73	-10.04	44.69	46.00	-1.31	QP		

*:Maximum data x:Over limit !:over margin

●Reference Only



File :RH767(11b)

Data :#7

Date: 2009/2/24

Time:

80.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0020-E

Mode: WIFI(11b)

Note: 2437

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		41.8800	30.59	-11.87	18.72	40.00	-21.28	peak		
2		96.9600	33.71	-11.93	21.78	43.50	-21.72	peak		
3		125.8500	40.55	-15.14	25.41	43.50	-18.09	peak		
4	!	199.0200	54.90	-13.16	41.74	43.50	-1.76	peak		
5	*	242.4900	58.94	-11.35	47.59	46.00	1.59	peak		
6	!	242.4900	56.21	-11.35	44.86	46.00	-1.14	QP		
7	!	282.4500	51.39	-10.35	41.04	46.00	-4.96	peak		
8	!	298.6500	54.55	-10.04	44.51	46.00	-1.49	peak		

*:Maximum data x:Over limit !:over margin

●Reference Only



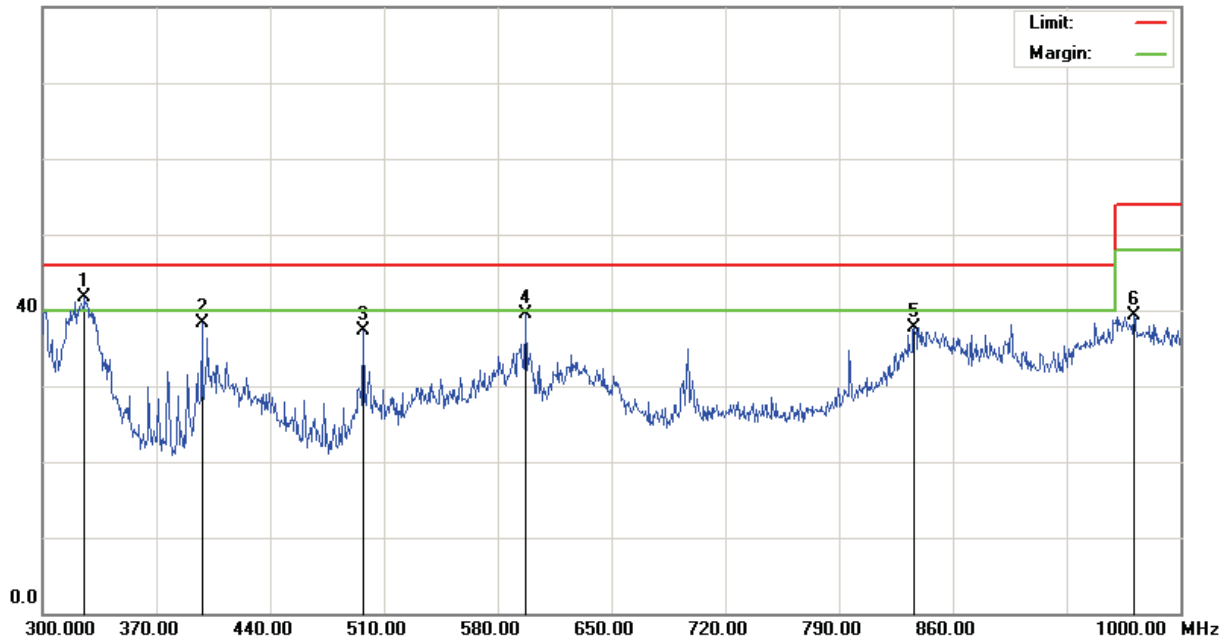
File :RH767(11b)

Data :#6

Date: 2009/2/24

Time:

80.0 dBuV



Site

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0020-E

Mode: WIFI(11b)

Note: 2437

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	325.9000	51.28	-9.57	41.71	46.00	-4.29	peak		
2		398.0000	46.67	-8.39	38.28	46.00	-7.72	peak		
3		497.4000	44.47	-7.12	37.35	46.00	-8.65	peak		
4		597.5000	44.32	-4.89	39.43	46.00	-6.57	peak		
5		836.2000	39.16	-1.39	37.77	46.00	-8.23	peak		
6		971.3000	38.69	0.70	39.39	54.00	-14.61	peak		

*:Maximum data x:Over limit !:over margin

●Reference Only



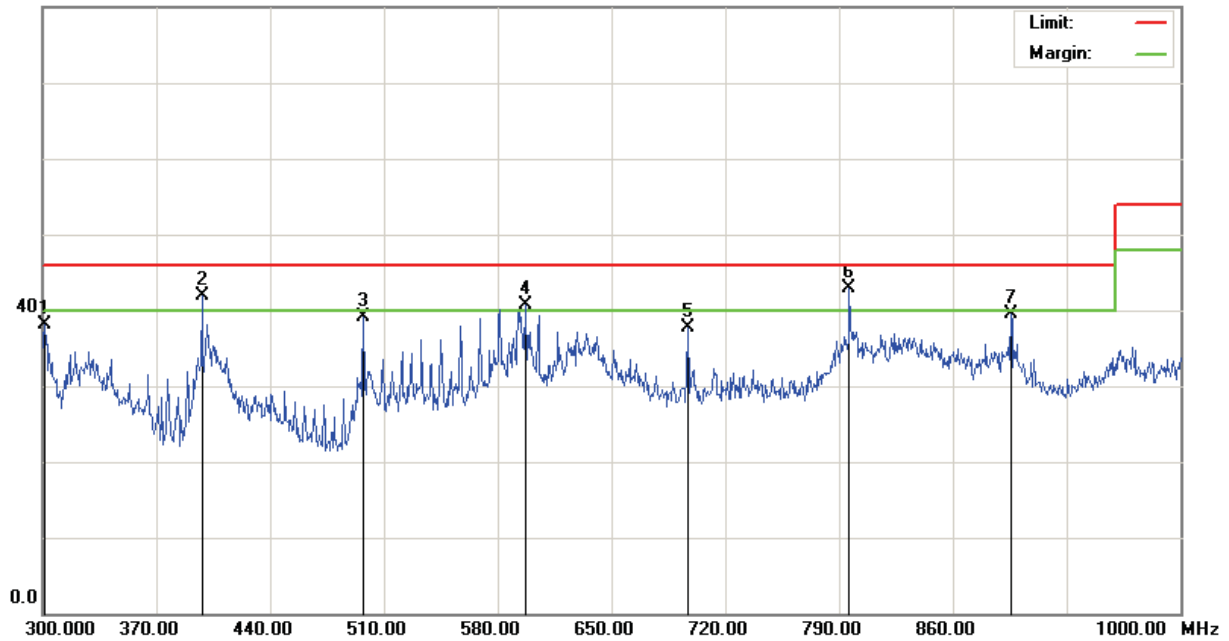
File :RH767(11b)

Data :#8

Date: 2009/2/24

Time:

80.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0020-E

Mode: WIFI(11b)

Note: 2437

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		301.4000	48.22	-10.02	38.20	46.00	-7.80	peak		
2	!	398.0000	50.23	-8.39	41.84	46.00	-4.16	peak		
3		497.4000	46.20	-7.12	39.08	46.00	-6.92	peak		
4	!	596.8000	45.67	-4.88	40.79	46.00	-5.21	peak		
5		696.9000	41.54	-3.85	37.69	46.00	-8.31	peak		
6	*	796.3000	45.18	-2.35	42.83	46.00	-3.17	peak		
7		895.7000	39.91	-0.49	39.42	46.00	-6.58	peak		

*:Maximum data x:Over limit !:over margin

●Reference Only



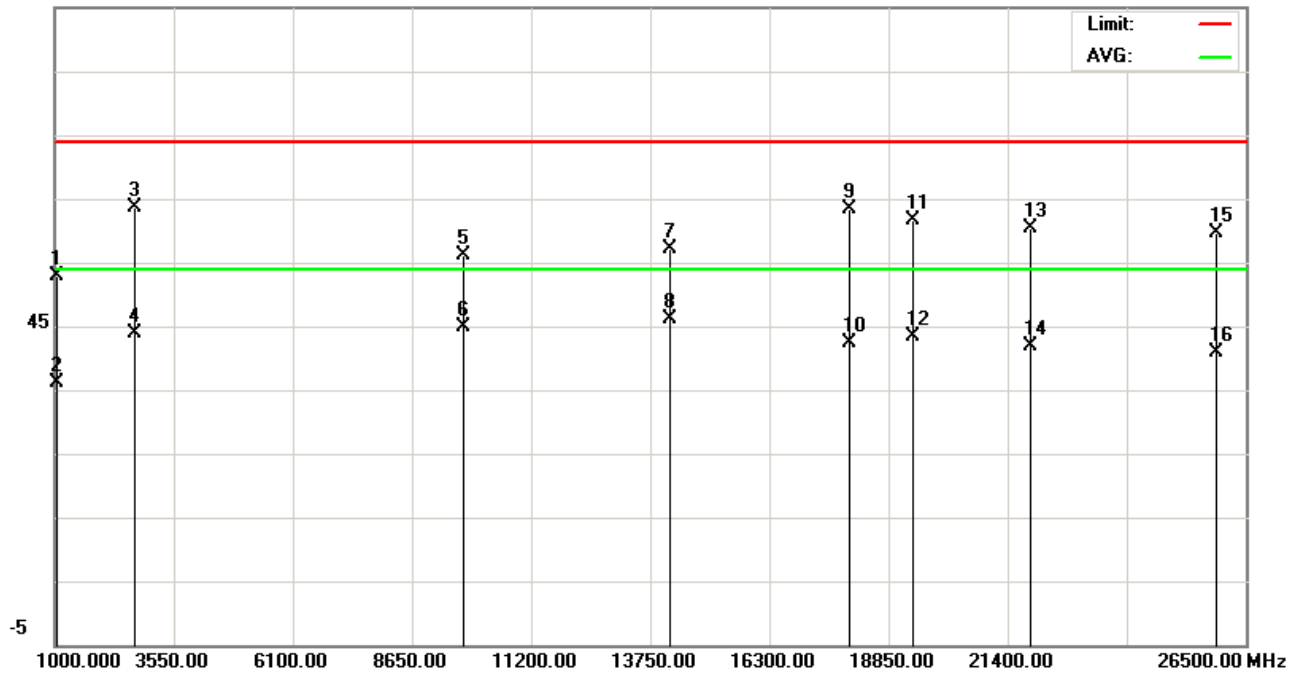
File :RH767(CH06)

Data :#14

Date: 2009/2/6

Time: 上午 02:40:51

95.0 dBuV



Site site#1

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance:

M/N: 09-0020-E

Mode: WIFI(11b)

Note: CH06(2437MHz) , Antenna100cm , NB01

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		1047.600	58.87	-6.07	52.80	74.00	-21.20	peak		
2		1047.600	42.18	-6.07	36.11	54.00	-17.89	AVG		
3		2700.000	41.11	22.58	63.69	74.00	-10.31	peak		
4		2700.000	21.30	22.58	43.88	54.00	-10.12	AVG		
5		9726.250	38.47	17.60	56.07	74.00	-17.93	peak		
6		9726.250	27.24	17.60	44.84	54.00	-9.16	AVG		
7		14140.00	38.25	18.84	57.09	74.00	-16.91	peak		
8	*	14140.00	27.25	18.84	46.09	54.00	-7.91	AVG		
9		18000.00	37.69	25.57	63.26	74.00	-10.74	peak		
10		18000.00	16.85	25.57	42.42	54.00	-11.58	AVG		
11		19360.00	38.72	22.84	61.56	74.00	-12.44	peak		
12		19360.00	20.47	22.84	43.31	54.00	-10.69	AVG		
13		21867.50	39.11	21.19	60.30	74.00	-13.70	peak		

*:Maximum data x:Over limit !:over margin

●Reference Only



Site site#1

Limit: FCC part 15 (PK)

EUT:

M/N: 09-0020-E

Mode: WIFI(11b)

Note: CH06(2437MHz) , Antenna100cm , NB01

Polarization: **Vertical**

Power:

Distance:

Temperature: 22 °C

Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree
14		21867.50	20.57	21.19	41.76	54.00	-12.24	AVG		
15		25862.50	41.05	18.67	59.72	74.00	-14.28	peak		
16		25862.50	22.19	18.67	40.86	54.00	-13.14	AVG		

*:Maximum data x:Over limit !:over margin

●Reference Only



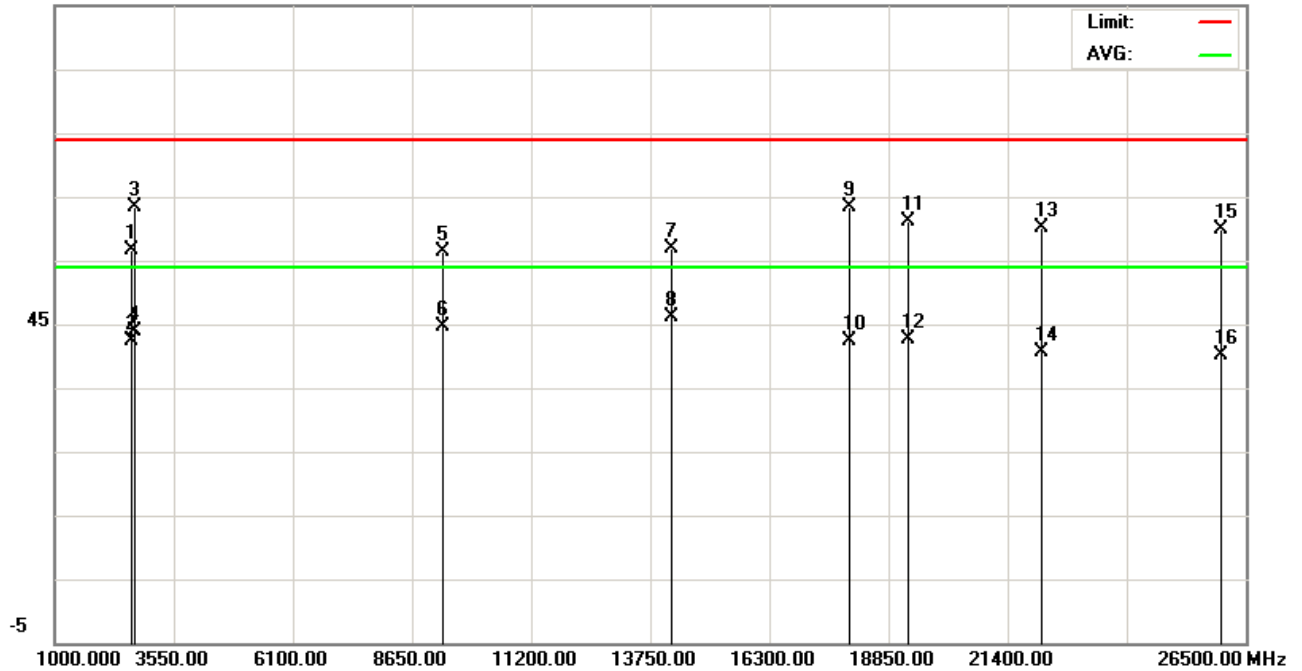
File :RH767(CH06)

Data :#16

Date: 2009/2/6

Time: 上午 02:45:07

95.0 dBuV



Site site#1

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance:

M/N: 09-0020-E

Mode: WIFI(11b)

Note: CH06(2437MHz) , Antenna100cm , NB01

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2652.400	55.78	0.95	56.73	74.00	-17.27	peak		
2		2652.400	41.54	0.95	42.49	54.00	-11.51	AVG		
3		2700.000	40.91	22.58	63.49	74.00	-10.51	peak		
4		2700.000	21.23	22.58	43.81	54.00	-10.19	AVG		
5		9288.250	39.65	16.78	56.43	74.00	-17.57	peak		
6		9288.250	27.78	16.78	44.56	54.00	-9.44	AVG		
7		14200.00	37.98	18.86	56.84	74.00	-17.16	peak		
8	*	14200.00	27.30	18.86	46.16	54.00	-7.84	AVG		
9		18000.00	37.85	25.57	63.42	74.00	-10.58	peak		
10		18000.00	16.84	25.57	42.41	54.00	-11.59	AVG		
11		19253.75	38.11	22.92	61.03	74.00	-12.97	peak		
12		19253.75	19.61	22.92	42.53	54.00	-11.47	AVG		
13		22101.25	39.08	21.06	60.14	74.00	-13.86	peak		

*:Maximum data x:Over limit !:over margin

●Reference Only



Site site#1	Polarization: Horizontal	Temperature: 22 °C
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT:	Distance:	
M/N: 09-0020-E		
Mode: WIFI(11b)		
Note: CH06(2437MHz) , Antenna100cm , NB01		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree
14		22101.25	19.54	21.06	40.60	54.00	-13.40	AVG		
15		25947.50	41.23	18.60	59.83	74.00	-14.17	peak		
16		25947.50	21.52	18.60	40.12	54.00	-13.88	AVG		

*:Maximum data x:Over limit !:over margin

●Reference Only



3.6.3 Open Field Radiated Emissions (Subpart C)

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation, etc. are recorded on the following.

Applicant : Applied Wireless Identifications Group Inc.
Model No : HH-6600
EUT : RFID Handheld Terminal
Test Mode : AC Adapter _ 802.11b CH11 2462.000 (Local Frequency: 2462.000 MHz)
Test Date : 02/06 ~ 02/24/2009

Please refer to next pager of detail testing data.

Notes:

1. Margin= Amplitude - Limits
2. Distance of Measurement: 3 Meter (30-1000MHz) & (1-10GHz), 1 Meter (10-26.5GHz)
3. Height of table for EUT placed: 0.8 Meter.
4. ANT= Antenna height.
5. Amplitude= Reading Amplitude – Amplifier gain + Cable loss + Antenna factor
(Auto calculate in spectrum analyzer)
6. The EUT was worst case on X axis after pretest on X & Y & Z axis setting.
7. The testing data only show below 18GHz's data because measure data above 18GHz was only ambient noise.
8. All frequencies from 30MHz to 26.5GHz have been tested



File :RH767(11b)

Data :#9

Date: 2009/2/24

Time:

80.0 dBuV



Site

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0020-E

Mode: WIFI(11b)

Note: 2462

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		59.7000	29.06	-12.52	16.54	40.00	-23.46	peak		
2		99.3900	37.75	-11.80	25.95	43.50	-17.55	peak		
3		152.8500	39.65	-15.95	23.70	43.50	-19.80	peak		
4	!	199.0200	54.75	-13.16	41.59	43.50	-1.91	peak		
5	X	240.3300	58.60	-11.42	47.18	46.00	1.18	peak		
6	!	240.3300	55.71	-11.42	44.29	46.00	-1.71	QP		
7	*	298.6500	57.45	-10.04	47.41	46.00	1.41	peak		
8	!	298.6500	54.77	-10.04	44.73	46.00	-1.27	QP		

*:Maximum data x:Over limit !:over margin

●Reference Only



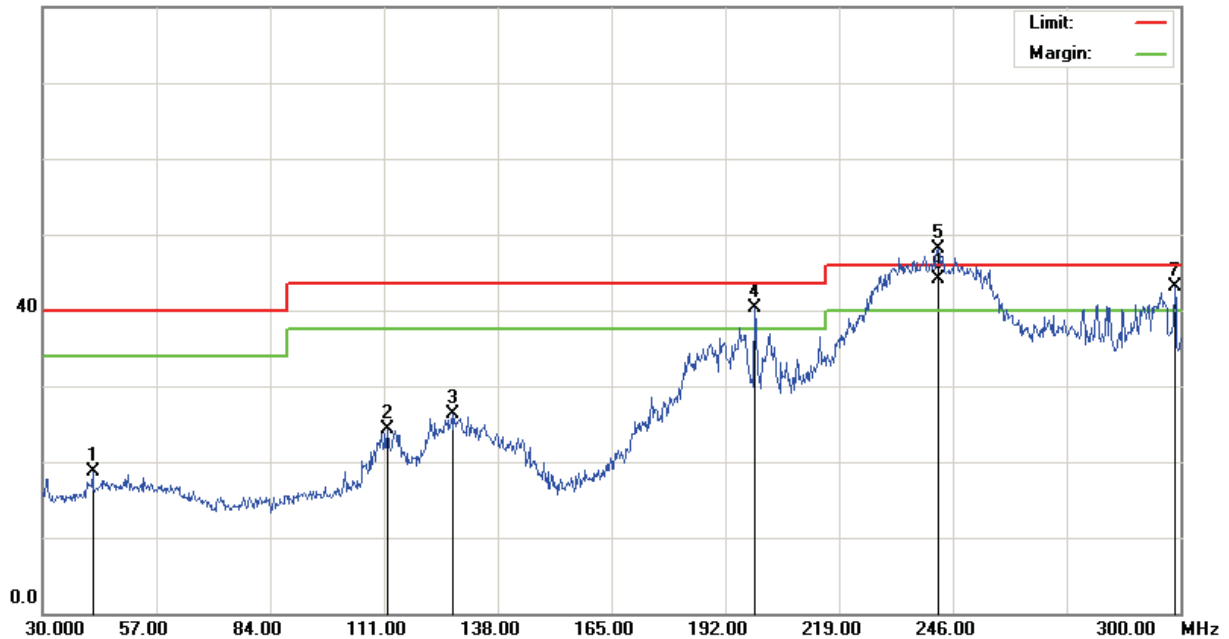
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Data :#11

Date: 2009/2/24

Time:

80.0 dBuV



Site

Limit: FCC Class B 3M Radiation

EUT:

M/N: 09-0020-E

Mode: WIFI(11b)

Note: 2462

Polarization: *Horizontal*

Power:

Distance: 3m

Temperature: 22 °C

Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1		41.8800	30.59	-11.87	18.72	40.00	-21.28	peak		
2		111.8100	37.11	-12.81	24.30	43.50	-19.20	peak		
3		127.2000	41.64	-15.30	26.34	43.50	-17.16	peak		
4	!	199.0200	53.40	-13.16	40.24	43.50	-3.26	peak		
5	*	242.4900	59.44	-11.35	48.09	46.00	2.09	peak		
6	!	242.4900	55.52	-11.35	44.17	46.00	-1.83	QP		
7	!	298.6500	53.05	-10.04	43.01	46.00	-2.99	peak		

*:Maximum data x:Over limit !:over margin

●Reference Only



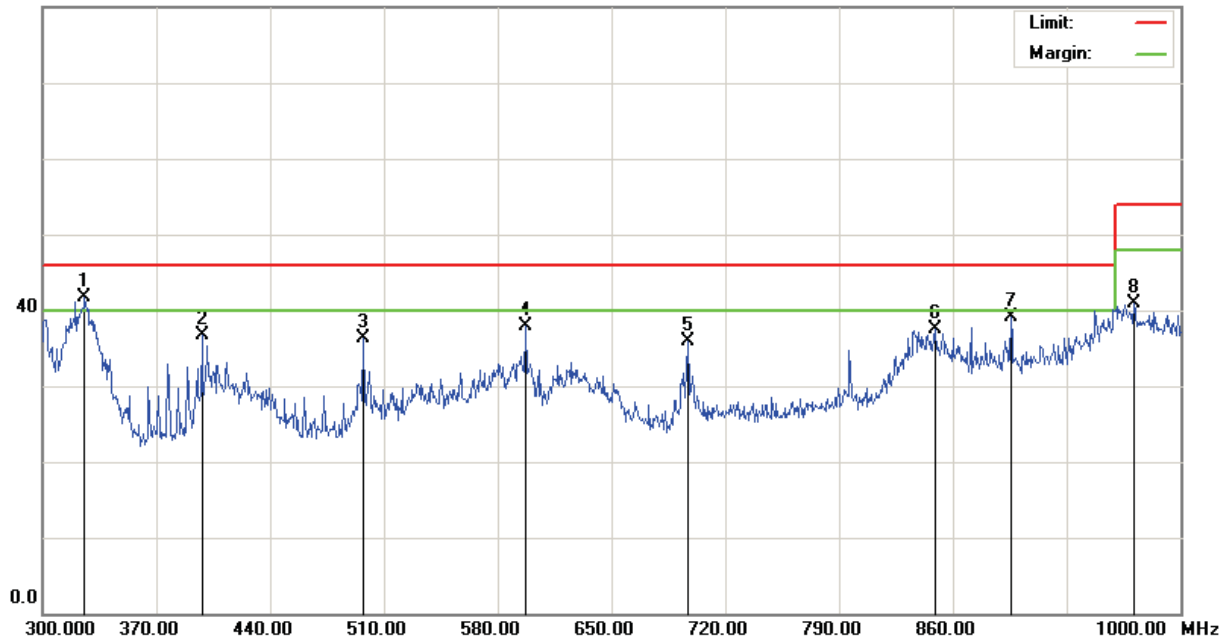
File :RH767(11b)

Data :#10

Date: 2009/2/24

Time:

80.0 dBuV



Site

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0020-E

Mode: WIFI(11b)

Note: 2462

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	cm	degree	Comment
1	*	325.9000	51.28	-9.57	41.71	46.00	-4.29	peak		
2		398.0000	45.17	-8.39	36.78	46.00	-9.22	peak		
3		497.4000	43.47	-7.12	36.35	46.00	-9.65	peak		
4		597.5000	42.82	-4.89	37.93	46.00	-8.07	peak		
5		696.9000	39.68	-3.85	35.83	46.00	-10.17	peak		
6		848.8000	38.84	-1.25	37.59	46.00	-8.41	peak		
7		895.7000	39.51	-0.49	39.02	46.00	-6.98	peak		
8		971.3000	40.19	0.70	40.89	54.00	-13.11	peak		

*:Maximum data x:Over limit !:over margin

●Reference Only



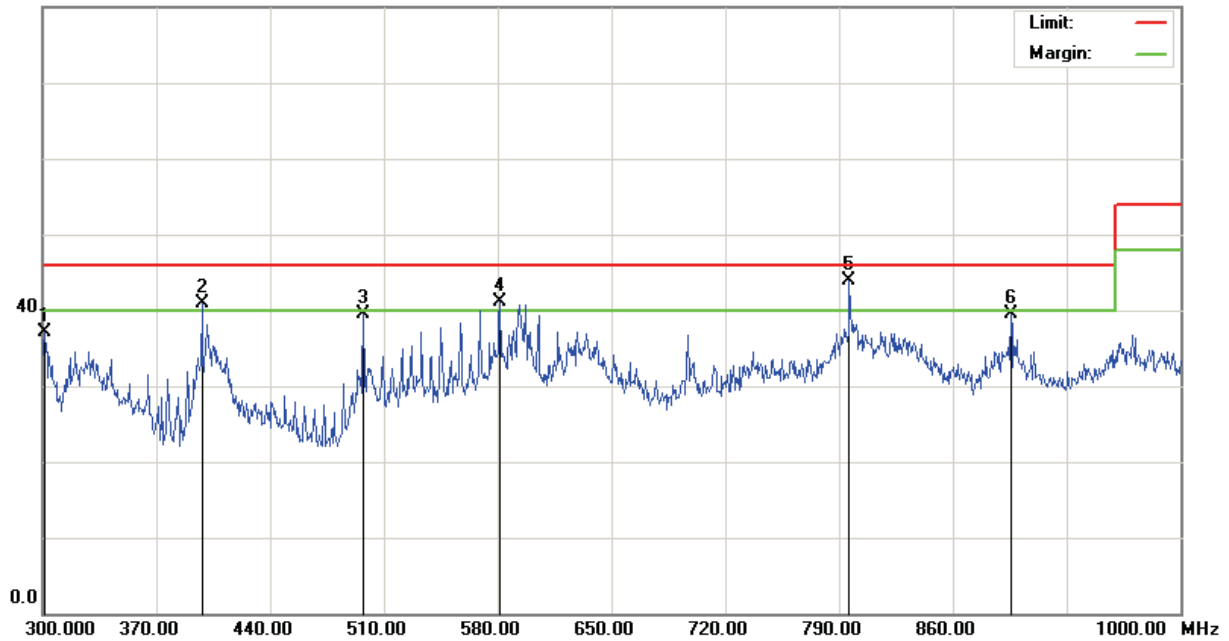
File :RH767(11b)

Data :#12

Date: 2009/2/24

Time:

80.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0020-E

Mode: WIFI(11b)

Note: 2462

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		301.4000	47.22	-10.02	37.20	46.00	-8.80	peak		
2	!	398.0000	49.23	-8.39	40.84	46.00	-5.16	peak		
3		497.4000	46.70	-7.12	39.58	46.00	-6.42	peak		
4	!	581.4000	46.34	-5.22	41.12	46.00	-4.88	peak		
5	*	796.3000	46.18	-2.35	43.83	46.00	-2.17	peak		
6		895.7000	39.91	-0.49	39.42	46.00	-6.58	peak		

*:Maximum data x:Over limit !:over margin

●Reference Only



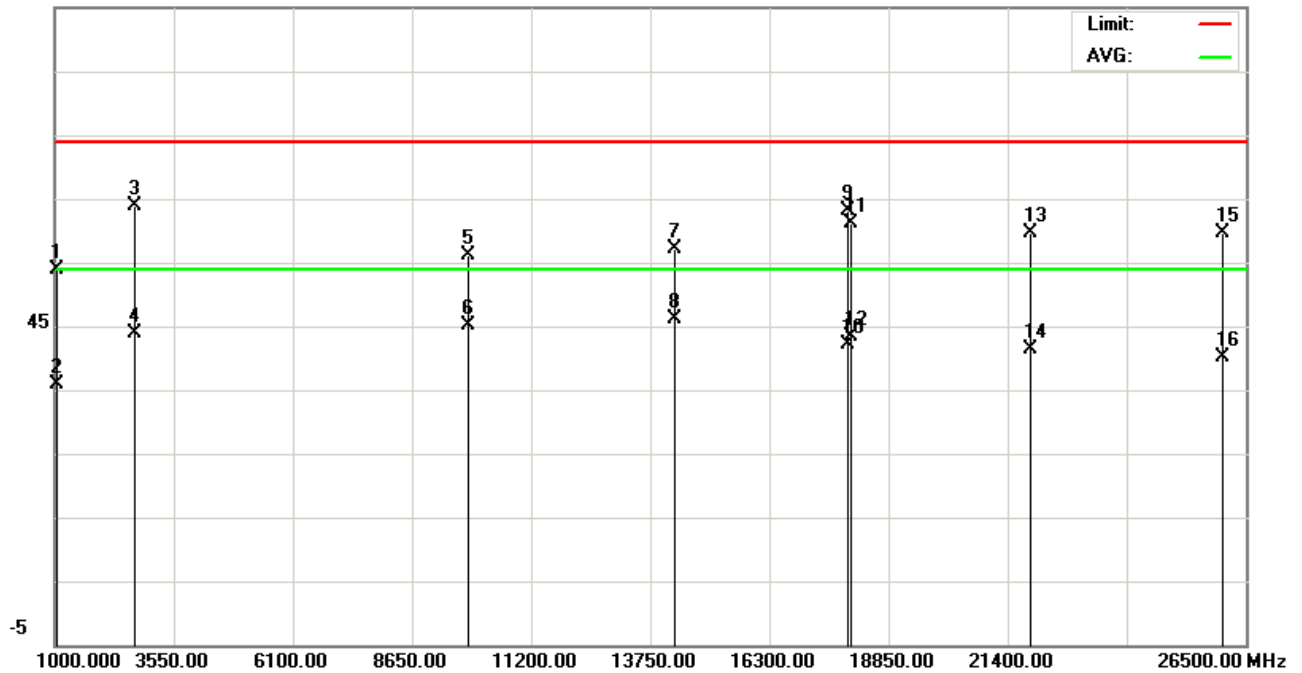
File :RH767(CH11)

Data :#14

Date: 2009/2/6

Time: 上午 02:49:49

95.0 dBuV



Site site#1

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance:

M/N: 09-0020-E

Mode: WIFI(11b)

Note: CH11(2462MHz) , Antenna100cm , NB01

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		1044.200	59.98	-6.09	53.89	74.00	-20.11	peak		
2		1044.200	41.95	-6.09	35.86	54.00	-18.14	AVG		
3		2700.000	41.24	22.58	63.82	74.00	-10.18	peak		
4		2700.000	21.29	22.58	43.87	54.00	-10.13	AVG		
5		9835.750	38.24	17.83	56.07	74.00	-17.93	peak		
6		9835.750	27.24	17.83	45.07	54.00	-8.93	AVG		
7		14240.00	38.46	18.71	57.17	74.00	-16.83	peak		
8	*	14240.00	27.45	18.71	46.16	54.00	-7.84	AVG		
9		17980.00	37.89	25.21	63.10	74.00	-10.90	peak		
10		17980.00	17.04	25.21	42.25	54.00	-11.75	AVG		
11		18042.50	37.95	23.27	61.22	74.00	-12.78	peak		
12		18042.50	20.11	23.27	43.38	54.00	-10.62	AVG		
13		21867.50	38.45	21.19	59.64	74.00	-14.36	peak		

*:Maximum data x:Over limit !:over margin

●Reference Only



Site site#1

Limit: FCC part 15 (PK)

EUT:

M/N: 09-0020-E

Mode: WIFI(11b)

Note: CH11(2462MHz) , Antenna100cm , NB01

Polarization: **Vertical**

Power:

Distance:

Temperature: 22 °C

Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree
14		21867.50	20.22	21.19	41.41	54.00	-12.59	AVG		
15		25990.00	41.11	18.56	59.67	74.00	-14.33	peak		
16		25990.00	21.69	18.56	40.25	54.00	-13.75	AVG		

*:Maximum data x:Over limit !:over margin

●Reference Only



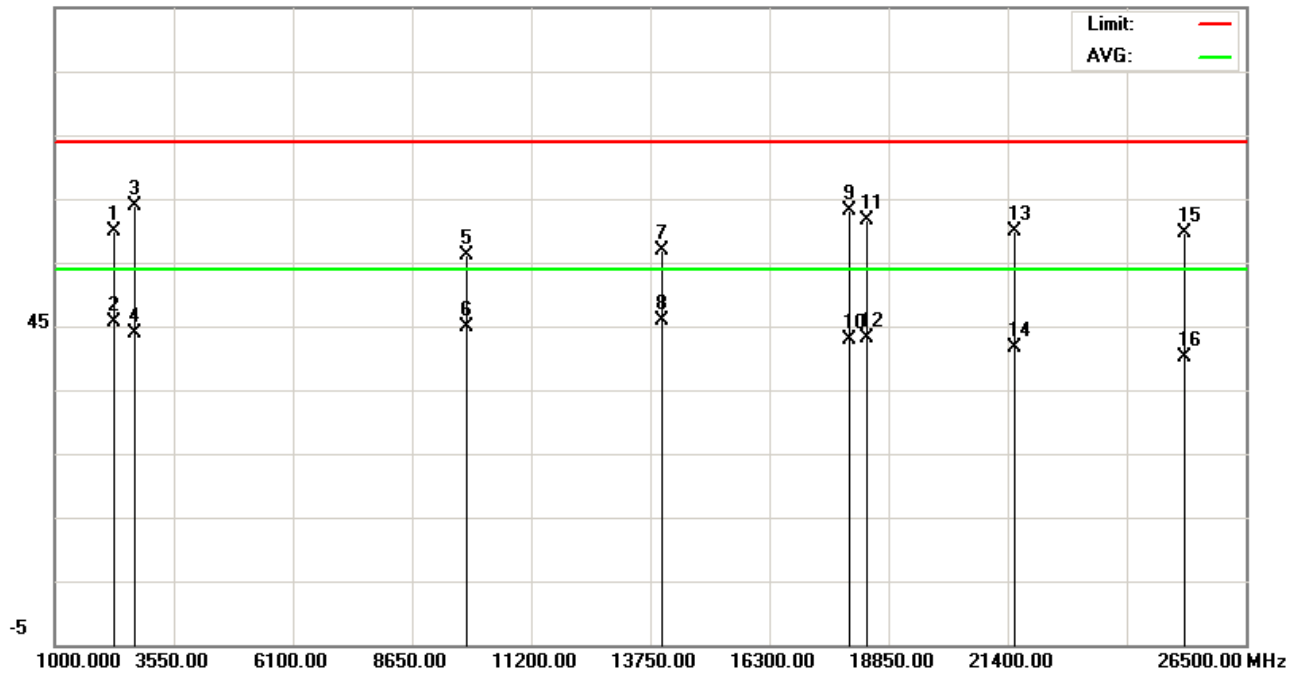
File :RH767(CH11)

Data :#16

Date: 2009/2/6

Time: 上午 02:53:48

95.0 dBuV



Site site#1

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance:

M/N: 09-0020-E

Mode: WIFI(11b)

Note: CH11(2462MHz) , Antenna100cm , NB01

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2251.200	59.45	0.49	59.94	74.00	-14.06	peak		
2		2251.200	45.17	0.49	45.66	54.00	-8.34	AVG		
3		2700.000	41.29	22.58	63.87	74.00	-10.13	peak		
4		2700.000	21.38	22.58	43.96	54.00	-10.04	AVG		
5		9799.250	38.36	17.67	56.03	74.00	-17.97	peak		
6		9799.250	27.22	17.67	44.89	54.00	-9.11	AVG		
7		14000.00	38.15	18.67	56.82	74.00	-17.18	peak		
8	*	14000.00	27.28	18.67	45.95	54.00	-8.05	AVG		
9		18000.00	37.45	25.57	63.02	74.00	-10.98	peak		
10		18000.00	17.20	25.57	42.77	54.00	-11.23	AVG		
11		18382.50	38.56	23.16	61.72	74.00	-12.28	peak		
12		18382.50	20.08	23.16	43.24	54.00	-10.76	AVG		
13		21548.75	38.55	21.33	59.88	74.00	-14.12	peak		

*:Maximum data x:Over limit !:over margin

●Reference Only



Site site#1

Limit: FCC part 15 (PK)

EUT:

M/N: 09-0020-E

Mode: WIFI(11b)

Note: CH11(2462MHz) , Antenna100cm , NB01

Polarization: **Horizontal**

Power:

Distance:

Temperature: 22 °C

Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree
14		21548.75	20.21	21.33	41.54	54.00	-12.46	AVG		
15		25182.50	40.36	19.20	59.56	74.00	-14.44	peak		
16		25182.50	20.90	19.20	40.10	54.00	-13.90	AVG		

*:Maximum data x:Over limit !:over margin

●Reference Only



3.6.4 Open Field Radiated Emissions (Subpart C)

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation, etc. are recorded on the following.

Applicant : Applied Wireless Identifications Group Inc.
Model No : HH-6600
EUT : RFID Handheld Terminal
Test Mode : AC Adapter _ 802.11g CH1 2412.000 (Local Frequency: 2412.000 MHz)
Test Date : 02/06 ~ 02/24/2009

Please refer to next pager of detail testing data.

Notes:

1. Margin= Amplitude - Limits
2. Distance of Measurement: 3 Meter (30-1000MHz) & (1-10GHz), 1 Meter (10-26.5GHz)
3. Height of table for EUT placed: 0.8 Meter.
4. ANT= Antenna height.
5. Amplitude= Reading Amplitude – Amplifier gain + Cable loss + Antenna factor
(Auto calculate in spectrum analyzer)
6. The EUT was worst case on X axis after pretest on X & Y & Z axis setting.
7. The testing data only show below 18GHz's data because measure data above 18GHz was only ambient noise.
8. All frequencies from 30MHz to 26.5GHz have been tested



File :RH767(11g)

Data :#1

Date: 2009/2/24

Time:

80.0 dBuV



Site

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0020-E

Mode: WIFI(11g)

Note: 2412

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		30.8100	30.38	-13.30	17.08	40.00	-22.92	peak		
2		110.1900	37.89	-12.54	25.35	43.50	-18.15	peak		
3		161.7600	41.92	-15.43	26.49	43.50	-17.01	peak		
4	!	199.0200	54.25	-13.16	41.09	43.50	-2.41	peak		
5	!	240.3300	55.60	-11.42	44.18	46.00	-1.82	peak		
6	*	298.6500	58.45	-10.04	48.41	46.00	2.41	peak		
7	!	298.6500	54.77	-10.04	44.73	46.00	-1.27	QP		

*:Maximum data x:Over limit !:over margin

●Reference Only



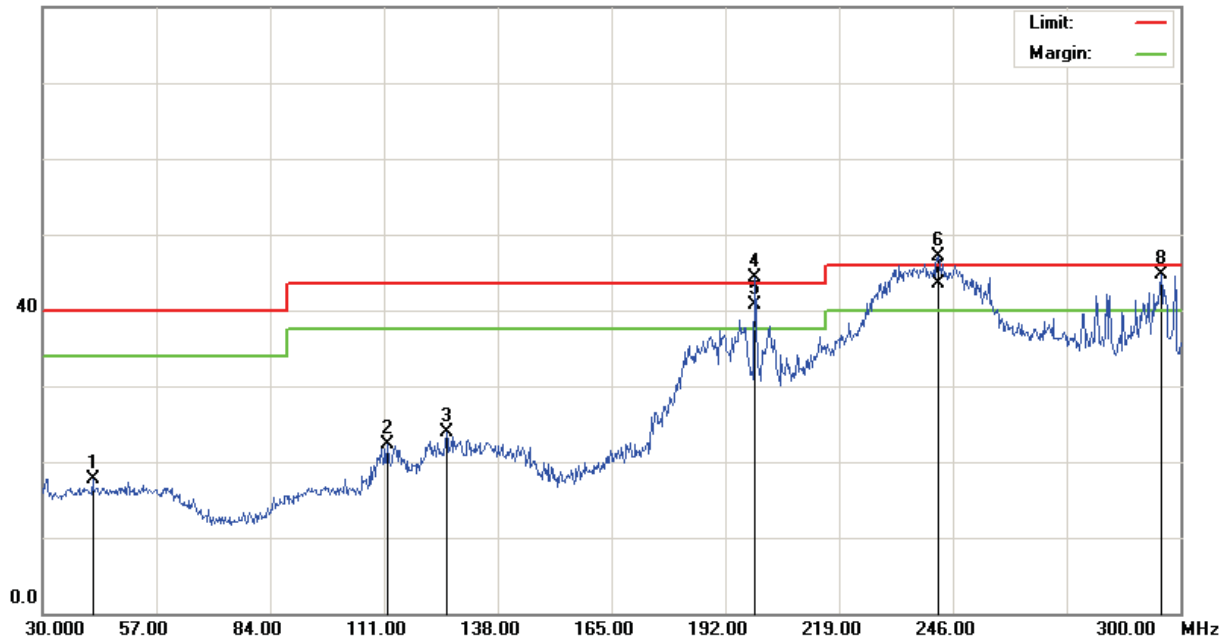
File :RH767(11g)

Data :#3

Date: 2009/2/24

Time:

80.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0020-E

Mode: WIFI(11g)

Note: 2412

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		41.8800	29.59	-11.87	17.72	40.00	-22.28	peak		
2		111.8100	35.11	-12.81	22.30	43.50	-21.20	peak		
3		125.8500	39.05	-15.14	23.91	43.50	-19.59	peak		
4	X	199.0200	57.40	-13.16	44.24	43.50	0.74	peak		
5	!	199.0200	53.95	-13.16	40.79	43.50	-2.71	QP		
6	*	242.4900	58.44	-11.35	47.09	46.00	1.09	peak		
7	!	242.4900	54.93	-11.35	43.58	46.00	-2.42	QP		
8	!	295.4100	54.93	-10.18	44.75	46.00	-1.25	peak		

*:Maximum data x:Over limit !:over margin

●Reference Only



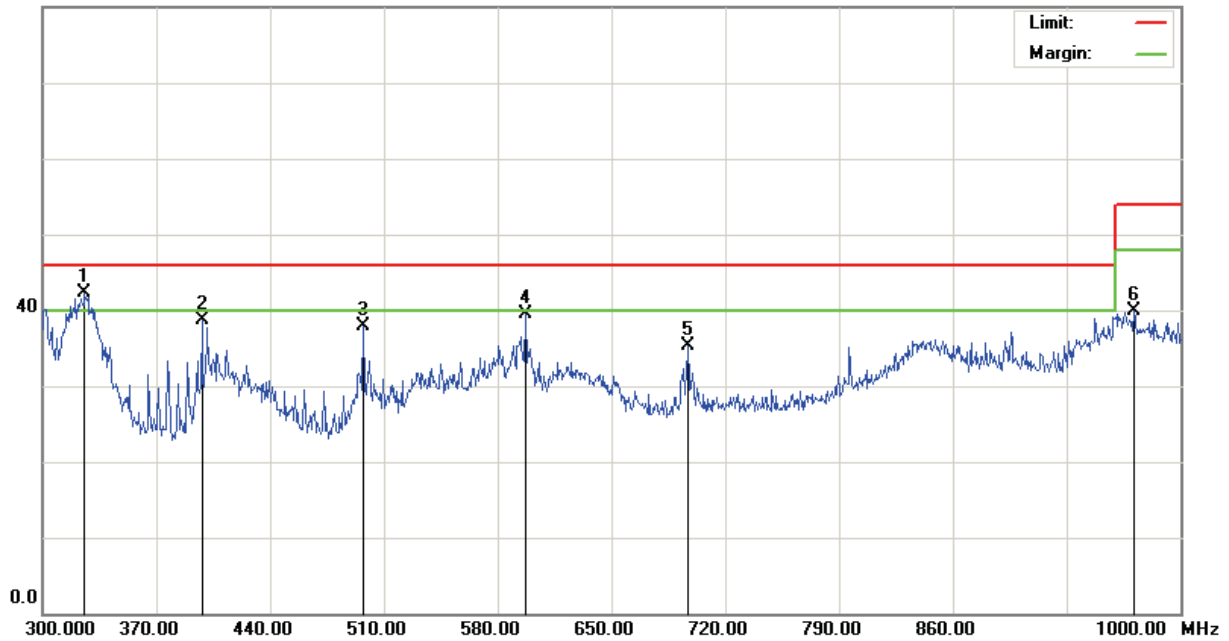
File :RH767(11g)

Data :#2

Date: 2009/2/24

Time:

80.0 dBuV



Site

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0020-E

Mode: WIFI(11g)

Note: 2412

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	325.9000	51.78	-9.57	42.21	46.00	-3.79	peak		
2		398.0000	47.17	-8.39	38.78	46.00	-7.22	peak		
3		497.4000	44.97	-7.12	37.85	46.00	-8.15	peak		
4		597.5000	44.32	-4.89	39.43	46.00	-6.57	peak		
5		696.9000	39.18	-3.85	35.33	46.00	-10.67	peak		
6		971.3000	39.19	0.70	39.89	54.00	-14.11	peak		

*:Maximum data x:Over limit !:over margin

●Reference Only



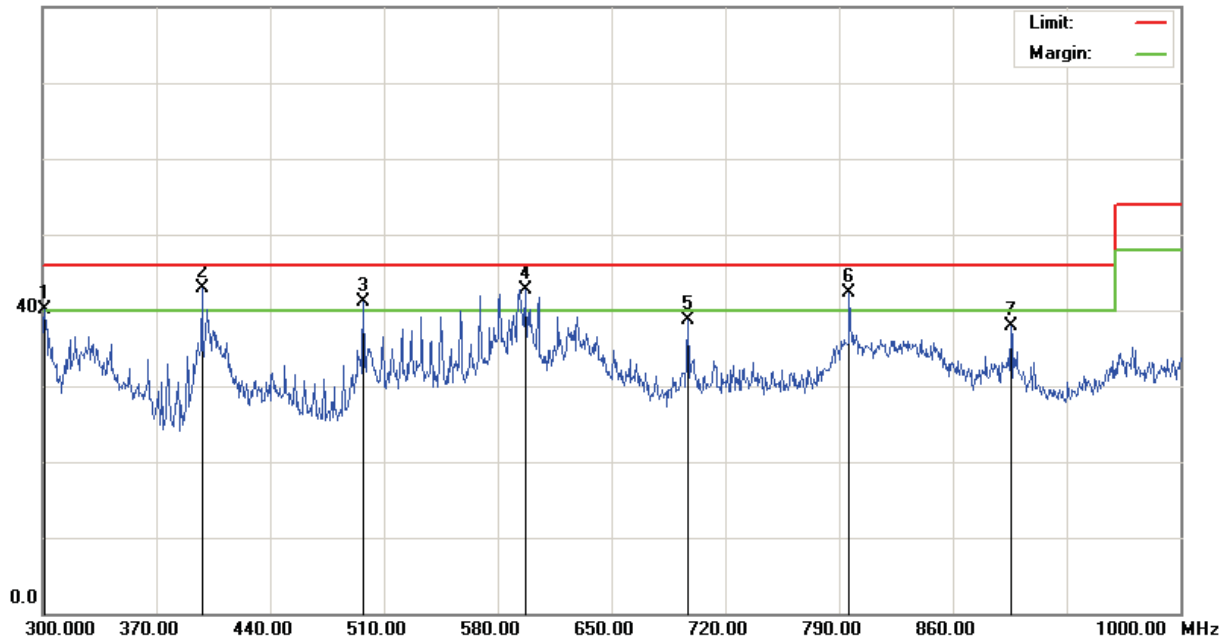
File :RH767(11g)

Data :#4

Date: 2009/2/24

Time:

80.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0020-E

Mode: WIFI(11g)

Note: 2412

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1	!	301.4000	50.22	-10.02	40.20	46.00	-5.80	peak		
2	*	398.0000	51.23	-8.39	42.84	46.00	-3.16	peak		
3	!	497.4000	48.20	-7.12	41.08	46.00	-4.92	peak		
4	!	596.8000	47.67	-4.88	42.79	46.00	-3.21	peak		
5		696.9000	42.54	-3.85	38.69	46.00	-7.31	peak		
6	!	796.3000	44.68	-2.35	42.33	46.00	-3.67	peak		
7		895.7000	38.41	-0.49	37.92	46.00	-8.08	peak		

*:Maximum data x:Over limit !:over margin

●Reference Only

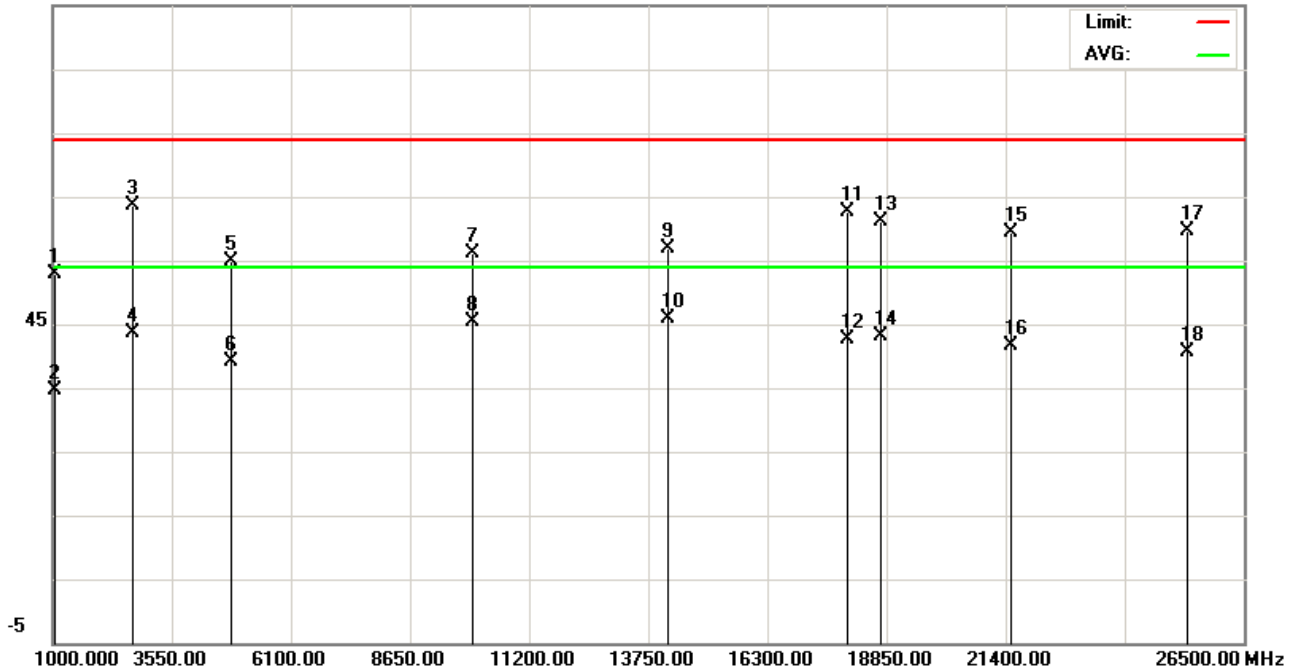


Data :#14

Date: 2009/2/6

Time: 上午 02:21:06

95.0 dBuV



Site site#1

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance:

M/N: 09-0020-E

Mode: WIFI(11g)

Note: CH01(2412MHz) , Antenna100cm , NB01

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		1040.800	58.92	-6.12	52.80	74.00	-21.20	peak		
2		1040.800	40.86	-6.12	34.74	54.00	-19.26	AVG		
3		2700.000	41.06	22.58	63.64	74.00	-10.36	peak		
4		2700.000	21.11	22.58	43.69	54.00	-10.31	AVG		
5		4817.000	47.49	7.42	54.91	74.00	-19.09	peak		
6		4817.000	31.74	7.42	39.16	54.00	-14.84	AVG		
7		9981.750	38.33	17.88	56.21	74.00	-17.79	peak		
8		9981.750	27.43	17.88	45.31	54.00	-8.69	AVG		
9		14180.00	38.03	18.85	56.88	74.00	-17.12	peak		
10	*	14180.00	26.99	18.85	45.84	54.00	-8.16	AVG		
11		18000.00	37.16	25.57	62.73	74.00	-11.27	peak		
12		18000.00	17.09	25.57	42.66	54.00	-11.34	AVG		
13		18722.50	38.13	23.12	61.25	74.00	-12.75	peak		

*:Maximum data x:Over limit !:over margin

●Reference Only



Site site#1

Limit: FCC part 15 (PK)

EUT:

M/N: 09-0020-E

Mode: WIFI(11g)

Note: CH01(2412MHz) , Antenna100cm , NB01

Polarization: **Vertical**

Power:

Distance:

Temperature: 22 °C

Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree
14		18722.50	20.05	23.12	43.17	54.00	-10.83	AVG		
15		21506.25	38.03	21.35	59.38	74.00	-14.62	peak		
16		21506.25	20.22	21.35	41.57	54.00	-12.43	AVG		
17		25288.75	40.57	19.11	59.68	74.00	-14.32	peak		
18		25288.75	21.44	19.11	40.55	54.00	-13.45	AVG		

*:Maximum data x:Over limit !:over margin

●Reference Only

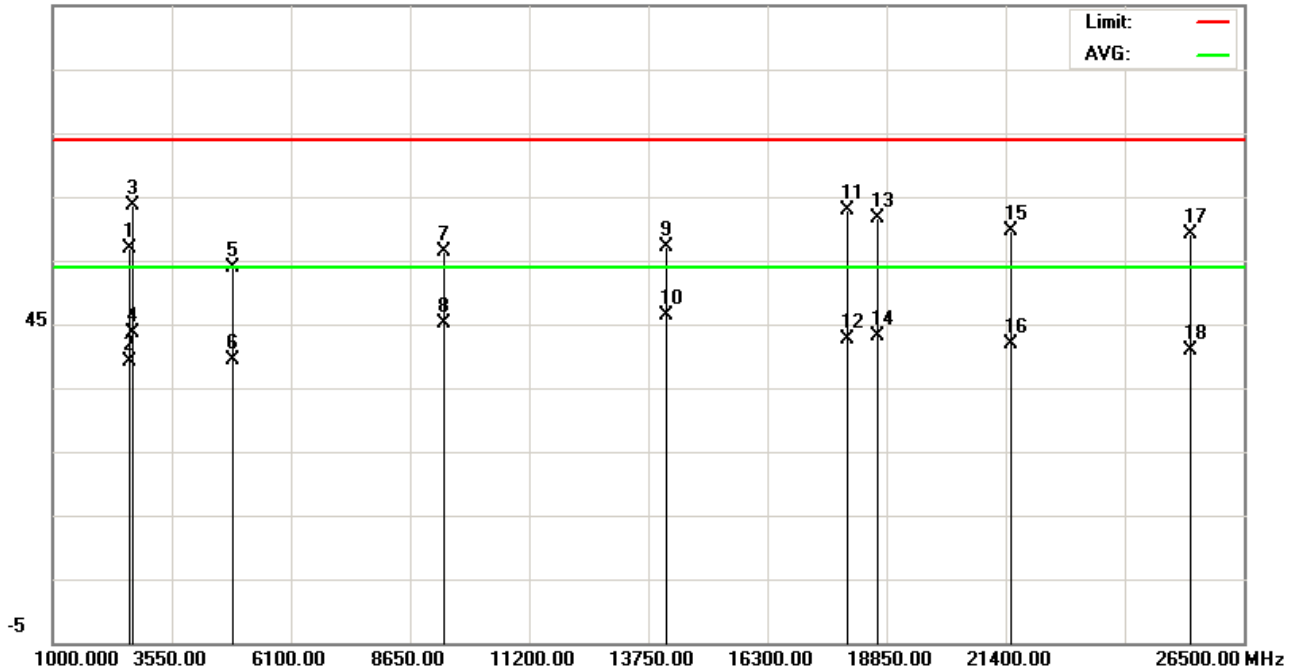


Data :#16

Date: 2009/2/6

Time: 上午 02:24:59

95.0 dBuV



Site site#1

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance:

M/N: 09-0020-E

Mode: WIFI(11g)

Note: CH01(2412MHz) , Antenna100cm , NB01

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2621.800	56.21	0.79	57.00	74.00	-17.00	peak		
2		2621.800	38.42	0.79	39.21	54.00	-14.79	AVG		
3		2700.000	40.97	22.58	63.55	74.00	-10.45	peak		
4		2700.000	21.11	22.58	43.69	54.00	-10.31	AVG		
5		4835.250	46.26	7.61	53.87	74.00	-20.13	peak		
6		4835.250	31.66	7.61	39.27	54.00	-14.73	AVG		
7		9343.000	39.44	16.93	56.37	74.00	-17.63	peak		
8		9343.000	28.13	16.93	45.06	54.00	-8.94	AVG		
9		14120.00	38.23	18.87	57.10	74.00	-16.90	peak		
10	*	14120.00	27.45	18.87	46.32	54.00	-7.68	AVG		
11		18000.00	37.42	25.57	62.99	74.00	-11.01	peak		
12		18000.00	16.96	25.57	42.53	54.00	-11.47	AVG		
13		18637.50	38.47	23.08	61.55	74.00	-12.45	peak		

*:Maximum data x:Over limit !:over margin

●Reference Only



Site site#1

Limit: FCC part 15 (PK)

EUT:

M/N: 09-0020-E

Mode: WIFI(11g)

Note: CH01(2412MHz) , Antenna100cm , NB01

Polarization: **Horizontal**

Power:

Distance:

Temperature: 22 °C

Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree
14		18637.50	20.07	23.08	43.15	54.00	-10.85	AVG		
15		21527.50	38.17	21.35	59.52	74.00	-14.48	peak		
16		21527.50	20.62	21.35	41.97	54.00	-12.03	AVG		
17		25352.50	40.02	19.07	59.09	74.00	-14.91	peak		
18		25352.50	21.75	19.07	40.82	54.00	-13.18	AVG		

*:Maximum data x:Over limit !:over margin

●Reference Only



3.6.5 Open Field Radiated Emissions (Subpart C)

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation, etc. are recorded on the following

Applicant : Applied Wireless Identifications Group Inc.
Model No : HH-6600
EUT : RFID Handheld Terminal
Test Mode : AC Adapter _ 802.11g CH6 2437.000 (Local Frequency: 2437.000 MHz)
Test Date : 02/06 ~ 02/24/2009

Please refer to next pager of detail testing data.

Notes:

1. Margin= Amplitude - Limits
2. Distance of Measurement: 3 Meter (30-1000MHz) & (1-10GHz), 1 Meter (10-26.5GHz)
3. Height of table for EUT placed: 0.8 Meter.
4. ANT= Antenna height.
5. Amplitude= Reading Amplitude – Amplifier gain + Cable loss + Antenna factor
(Auto calculate in spectrum analyzer)
6. The EUT was worst case on X axis after pretest on X & Y & Z axis setting.
7. The testing data only show below 18GHz's data because measure data above 18GHz was only ambient noise.
8. All frequencies from 30MHz to 26.5GHz have been tested



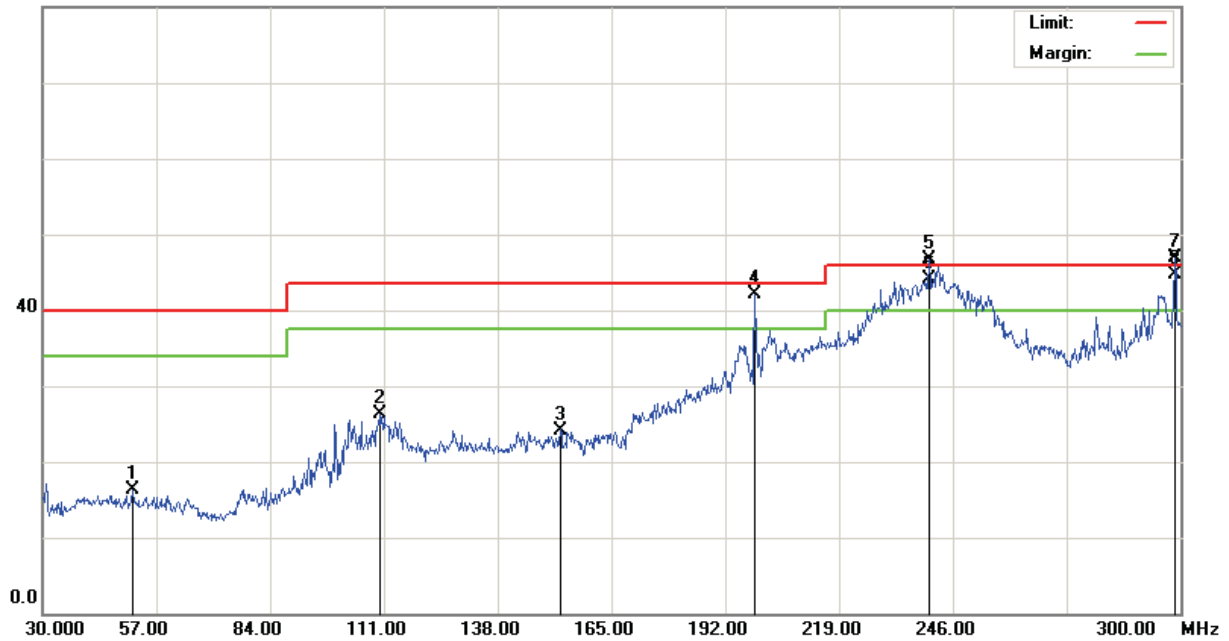
File :RH767(11g)

Data :#5

Date: 2009/2/24

Time:

80.0 dBuV



Site

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0020-E

Mode: WIFI(11g)

Note: 2437

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		51.3300	28.50	-12.17	16.33	40.00	-23.67	peak		
2		110.1900	38.89	-12.54	26.35	43.50	-17.15	peak		
3		152.8500	40.15	-15.95	24.20	43.50	-19.30	peak		
4	!	199.0200	55.25	-13.16	42.09	43.50	-1.41	peak		
5	X	240.3300	58.10	-11.42	46.68	46.00	0.68	peak		
6	!	240.3300	55.55	-11.42	44.13	46.00	-1.87	QP		
7	*	298.6500	56.95	-10.04	46.91	46.00	0.91	peak		
8	!	298.6500	54.73	-10.04	44.69	46.00	-1.31	QP		

*:Maximum data x:Over limit !:over margin

●Reference Only



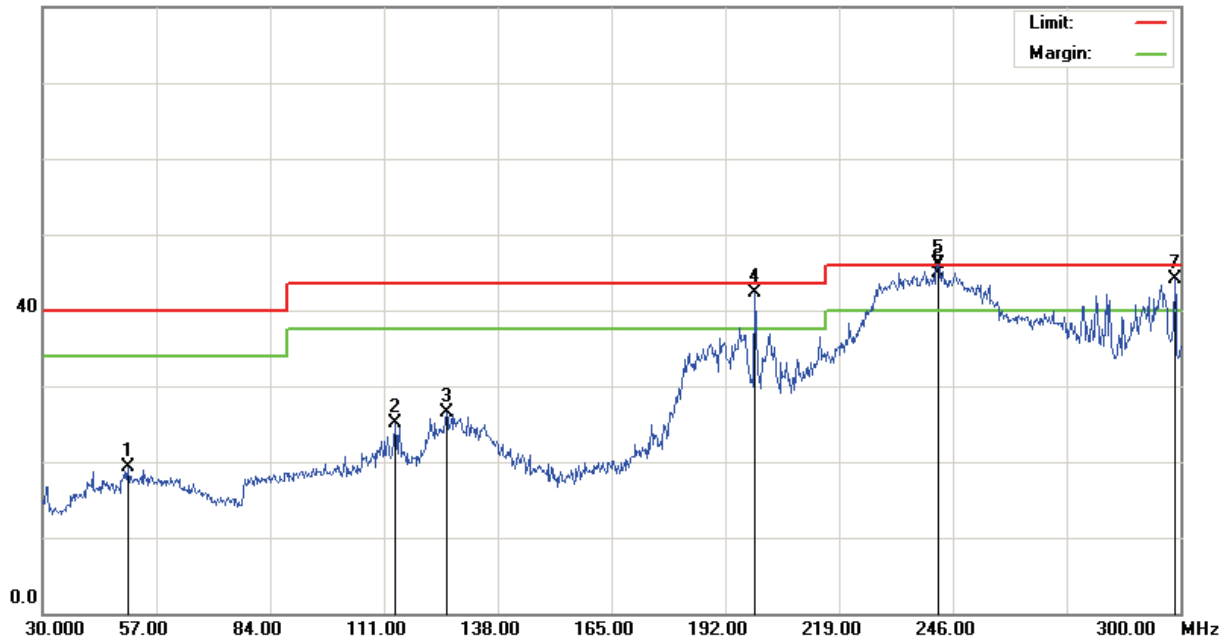
File :RH767(11g)

Data :#7

Date: 2009/2/24

Time:

80.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0020-E

Mode: WIFI(11g)

Note: 2437

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		50.2500	31.51	-12.16	19.35	40.00	-20.65	peak		
2		113.7000	38.24	-13.12	25.12	43.50	-18.38	peak		
3		125.8500	41.55	-15.14	26.41	43.50	-17.09	peak		
4	!	199.0200	55.40	-13.16	42.24	43.50	-1.26	peak		
5	*	242.4900	57.44	-11.35	46.09	46.00	0.09	peak		
6	!	242.4900	56.21	-11.35	44.86	46.00	-1.14	QP		
7	!	298.6500	54.05	-10.04	44.01	46.00	-1.99	peak		

*:Maximum data x:Over limit !:over margin

●Reference Only



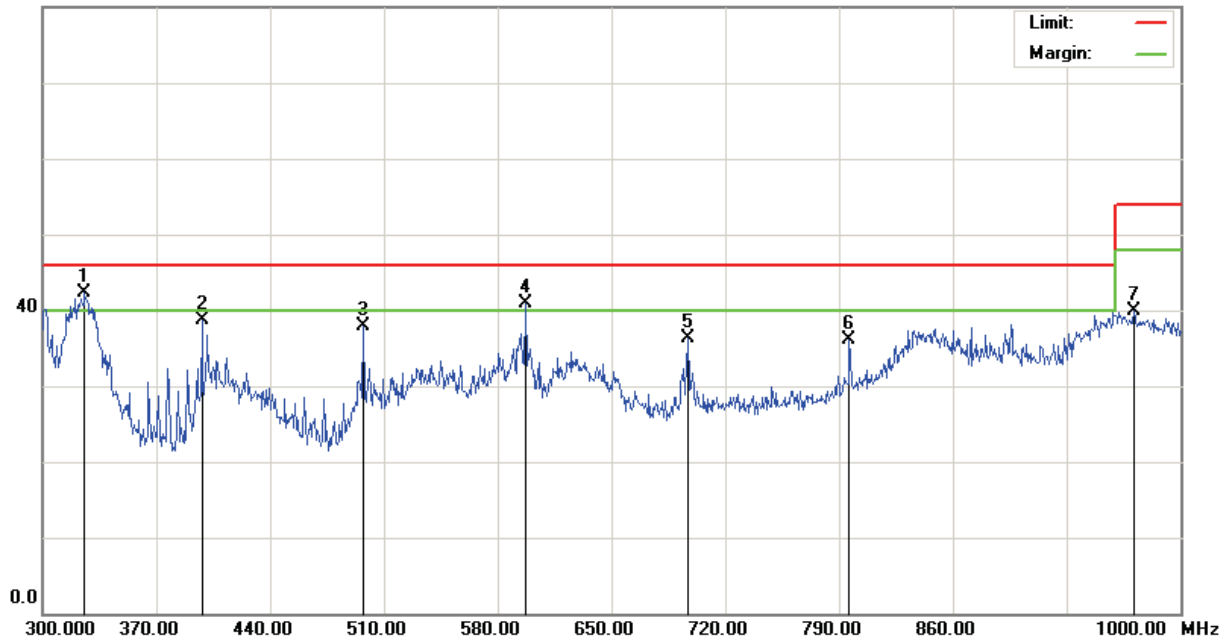
File :RH767(11g)

Data :#6

Date: 2009/2/24

Time:

80.0 dBuV



Site

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0020-E

Mode: WIFI(11g)

Note: 2437

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	325.9000	51.78	-9.57	42.21	46.00	-3.79	peak		
2		398.0000	47.17	-8.39	38.78	46.00	-7.22	peak		
3		497.4000	44.97	-7.12	37.85	46.00	-8.15	peak		
4	!	597.5000	45.82	-4.89	40.93	46.00	-5.07	peak		
5		696.9000	40.18	-3.85	36.33	46.00	-9.67	peak		
6		796.3000	38.53	-2.35	36.18	46.00	-9.82	peak		
7		971.3000	39.19	0.70	39.89	54.00	-14.11	peak		

*:Maximum data x:Over limit !:over margin

●Reference Only



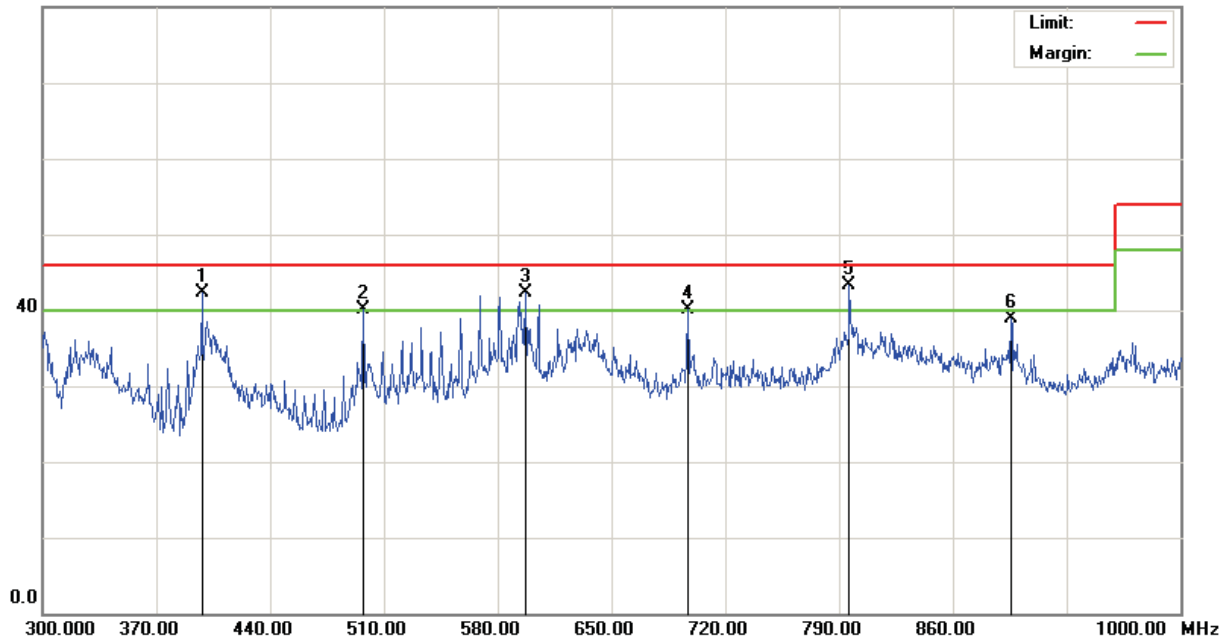
File :RH767(11g)

Data :#8

Date: 2009/2/24

Time:

80.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0020-E

Mode: WIFI(11g)

Note: 2437

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1	!	398.0000	50.73	-8.39	42.34	46.00	-3.66	peak		
2	!	497.4000	47.20	-7.12	40.08	46.00	-5.92	peak		
3	!	596.8000	47.17	-4.88	42.29	46.00	-3.71	peak		
4	!	696.9000	44.04	-3.85	40.19	46.00	-5.81	peak		
5	*	796.3000	45.68	-2.35	43.33	46.00	-2.67	peak		
6		895.7000	39.41	-0.49	38.92	46.00	-7.08	peak		

*:Maximum data x:Over limit !:over margin

●Reference Only

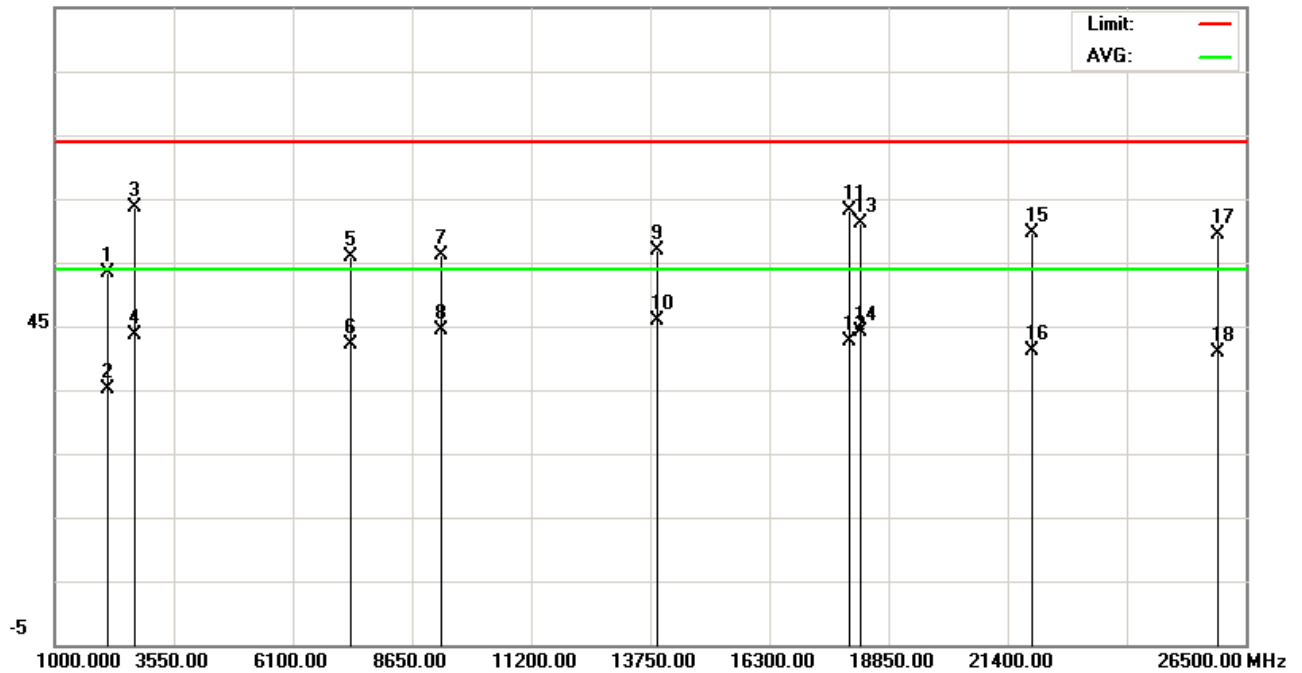


Data :#14

Date: 2009/2/6

Time: 上午 02:11:34

95.0 dBuV



Site site#1

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance:

M/N: 09-0020-E

Mode: WIFI(11g)

Note: CH06(2437MHz) , Antenna100cm , NB01

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2125.400	53.76	-0.28	53.48	74.00	-20.52	peak		
2		2125.400	35.47	-0.28	35.19	54.00	-18.81	AVG		
3		2700.000	40.98	22.58	63.56	74.00	-10.44	peak		
4		2700.000	21.01	22.58	43.59	54.00	-10.41	AVG		
5		7317.250	42.35	13.45	55.80	74.00	-18.20	peak		
6		7317.250	28.58	13.45	42.03	54.00	-11.97	AVG		
7		9270.000	39.54	16.61	56.15	74.00	-17.85	peak		
8		9270.000	27.81	16.61	44.42	54.00	-9.58	AVG		
9		13900.00	38.35	18.53	56.88	74.00	-17.12	peak		
10	*	13900.00	27.41	18.53	45.94	54.00	-8.06	AVG		
11		18000.00	37.57	25.57	63.14	74.00	-10.86	peak		
12		18000.00	17.11	25.57	42.68	54.00	-11.32	AVG		
13		18233.75	37.94	23.21	61.15	74.00	-12.85	peak		

*:Maximum data x:Over limit !:over margin

●Reference Only



Site site#1

Limit: FCC part 15 (PK)

EUT:

M/N: 09-0020-E

Mode: WIFI(11g)

Note: CH06(2437MHz) , Antenna100cm , NB01

Polarization: **Vertical**

Power:

Distance:

Temperature: 22 °C

Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree
14		18233.75	20.81	23.21	44.02	54.00	-9.98	AVG		
15		21931.25	38.42	21.15	59.57	74.00	-14.43	peak		
16		21931.25	19.87	21.15	41.02	54.00	-12.98	AVG		
17		25883.75	40.62	18.65	59.27	74.00	-14.73	peak		
18		25883.75	22.16	18.65	40.81	54.00	-13.19	AVG		

*:Maximum data x:Over limit !:over margin

●Reference Only

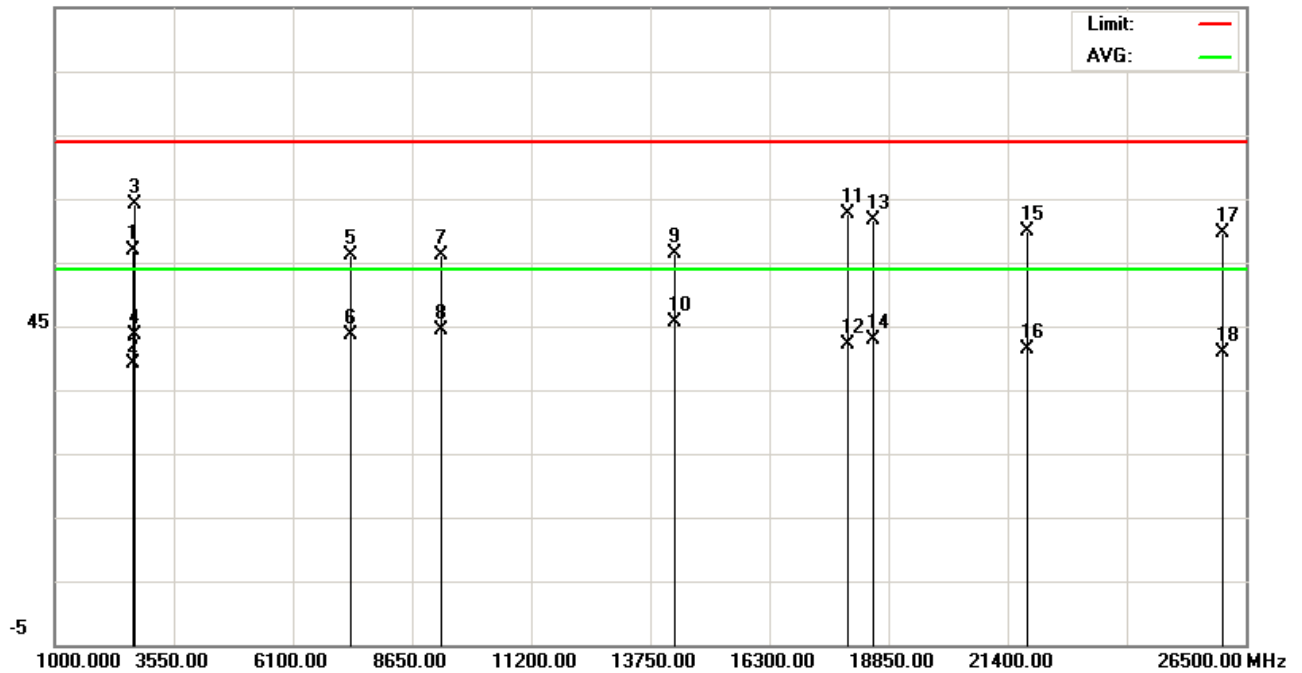


Data :#16

Date: 2009/2/6

Time: 上午 02:15:59

95.0 dBuV



Site site#1

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance:

M/N: 09-0020-E

Mode: WIFI(11g)

Note: CH06(2437MHz) , Antenna100cm , NB01

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2662.600	55.86	0.95	56.81	74.00	-17.19	peak		
2		2662.600	38.17	0.95	39.12	54.00	-14.88	AVG		
3		2700.000	41.53	22.58	64.11	74.00	-9.89	peak		
4		2700.000	21.04	22.58	43.62	54.00	-10.38	AVG		
5		7317.250	42.67	13.45	56.12	74.00	-17.88	peak		
6		7317.250	30.07	13.45	43.52	54.00	-10.48	AVG		
7		9270.000	39.53	16.61	56.14	74.00	-17.86	peak		
8		9270.000	27.87	16.61	44.48	54.00	-9.52	AVG		
9		14280.00	37.72	18.63	56.35	74.00	-17.65	peak		
10	*	14280.00	27.02	18.63	45.65	54.00	-8.35	AVG		
11		17980.00	37.34	25.21	62.55	74.00	-11.45	peak		
12		17980.00	17.01	25.21	42.22	54.00	-11.78	AVG		
13		18510.00	38.42	23.10	61.52	74.00	-12.48	peak		

*:Maximum data x:Over limit !:over margin

●Reference Only



Site site#1

Limit: FCC part 15 (PK)

EUT:

M/N: 09-0020-E

Mode: WIFI(11g)

Note: CH06(2437MHz) , Antenna100cm , NB01

Polarization: **Horizontal**

Power:

Distance:

Temperature: 22 °C

Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree
14		18510.00	19.67	23.10	42.77	54.00	-11.23	AVG		
15		21803.75	38.79	21.21	60.00	74.00	-14.00	peak		
16		21803.75	20.13	21.21	41.34	54.00	-12.66	AVG		
17		25990.00	41.05	18.56	59.61	74.00	-14.39	peak		
18		25990.00	22.27	18.56	40.83	54.00	-13.17	AVG		

*:Maximum data x:Over limit !:over margin

●Reference Only



3.6.6 Open Field Radiated Emissions (Subpart C)

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation, etc. are recorded on the following.

Applicant : Applied Wireless Identifications Group Inc.
Model No : HH-6600
EUT : RFID Handheld Terminal
Test Mode : AC Adapter _ 802.11g CH11 2462.000 (Local Frequency: 2462.000 MHz)
Test Date : 02/06 ~ 02/24/2009

Please refer to next pager of detail testing data.

Notes:

1. Margin= Amplitude - Limits
2. Distance of Measurement: 3 Meter (30-1000MHz) & (1-10GHz), 1 Meter (10-26.5GHz)
3. Height of table for EUT placed: 0.8 Meter.
4. ANT= Antenna height.
5. Amplitude= Reading Amplitude – Amplifier gain + Cable loss + Antenna factor
(Auto calculate in spectrum analyzer)
6. The EUT was worst case on X axis after pretest on X & Y & Z axis setting.
7. The testing data only show below 18GHz's data because measure data above 18GHz was only ambient noise.
8. All frequencies from 30MHz to 26.5GHz have been tested



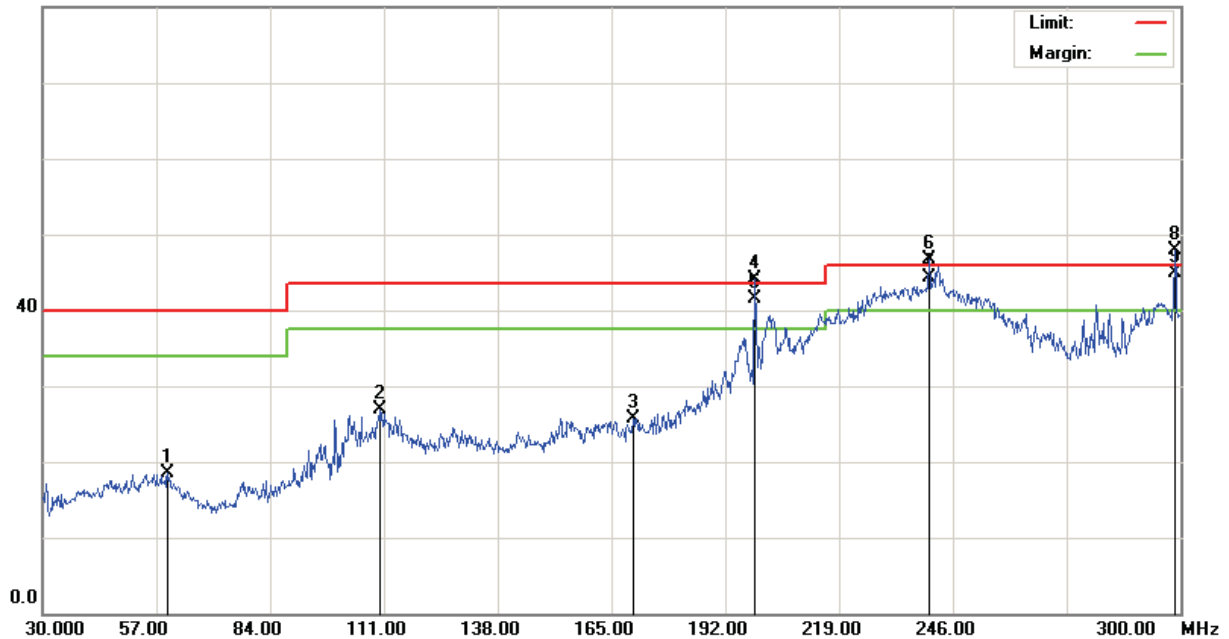
File :RH767(11g)

Data :#9

Date: 2009/2/24

Time:

80.0 dBuV



Site

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0020-E

Mode: WIFI(11g)

Note: 2462

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		59.7000	31.06	-12.52	18.54	40.00	-21.46	peak		
2		110.1900	39.39	-12.54	26.85	43.50	-16.65	peak		
3		170.1300	41.20	-15.40	25.80	43.50	-17.70	peak		
4	X	199.0200	57.25	-13.16	44.09	43.50	0.59	peak		
5	!	199.0200	54.70	-13.16	41.54	43.50	-1.96	QP		
6	X	240.3300	58.10	-11.42	46.68	46.00	0.68	peak		
7	!	240.3300	55.71	-11.42	44.29	46.00	-1.71	QP		
8	*	298.6500	57.95	-10.04	47.91	46.00	1.91	peak		
9	!	298.6500	55.02	-10.04	44.98	46.00	-1.02	QP		

*:Maximum data x:Over limit !:over margin

●Reference Only



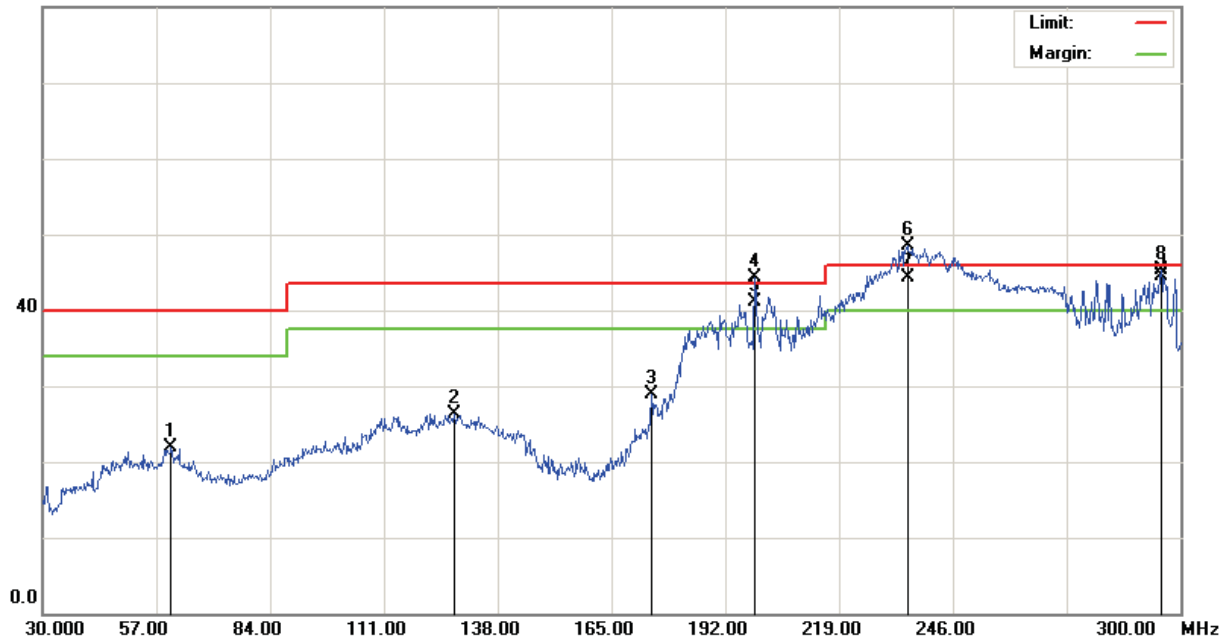
File :RH767(11g)

Data :#11

Date: 2009/2/24

Time:

80.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0020-E

Mode: WIFI(11g)

Note: 2462

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		60.5100	34.56	-12.72	21.84	40.00	-18.16	peak		
2		127.7400	41.64	-15.37	26.27	43.50	-17.23	peak		
3		174.4500	43.64	-14.72	28.92	43.50	-14.58	peak		
4	X	199.0200	57.40	-13.16	44.24	43.50	0.74	peak		
5	!	199.0200	54.34	-13.16	41.18	43.50	-2.32	QP		
6	*	235.2000	60.12	-11.71	48.41	46.00	2.41	peak		
7	!	235.2000	56.10	-11.71	44.39	46.00	-1.61	QP		
8	!	295.4100	55.43	-10.18	45.25	46.00	-0.75	peak		
9	!	295.4100	54.75	-10.18	44.57	46.00	-1.43	QP		

*:Maximum data x:Over limit !:over margin

●Reference Only



File :RH767(11g)

Data :#10

Date: 2009/2/24

Time:

80.0 dBuV



Site

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0020-E

Mode: WIFI(11g)

Note: 2462

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	320.3000	53.33	-9.81	43.52	46.00	-2.48	peak		
2	!	398.0000	50.17	-8.39	41.78	46.00	-4.22	peak		
3	!	497.4000	50.47	-7.12	43.35	46.00	-2.65	peak		
4	!	597.5000	48.32	-4.89	43.43	46.00	-2.57	peak		
5		696.9000	43.68	-3.85	39.83	46.00	-6.17	peak		
6	!	871.2000	42.10	-0.87	41.23	46.00	-4.77	peak		
7		966.4000	41.06	0.69	41.75	54.00	-12.25	peak		

*:Maximum data x:Over limit !:over margin

●Reference Only



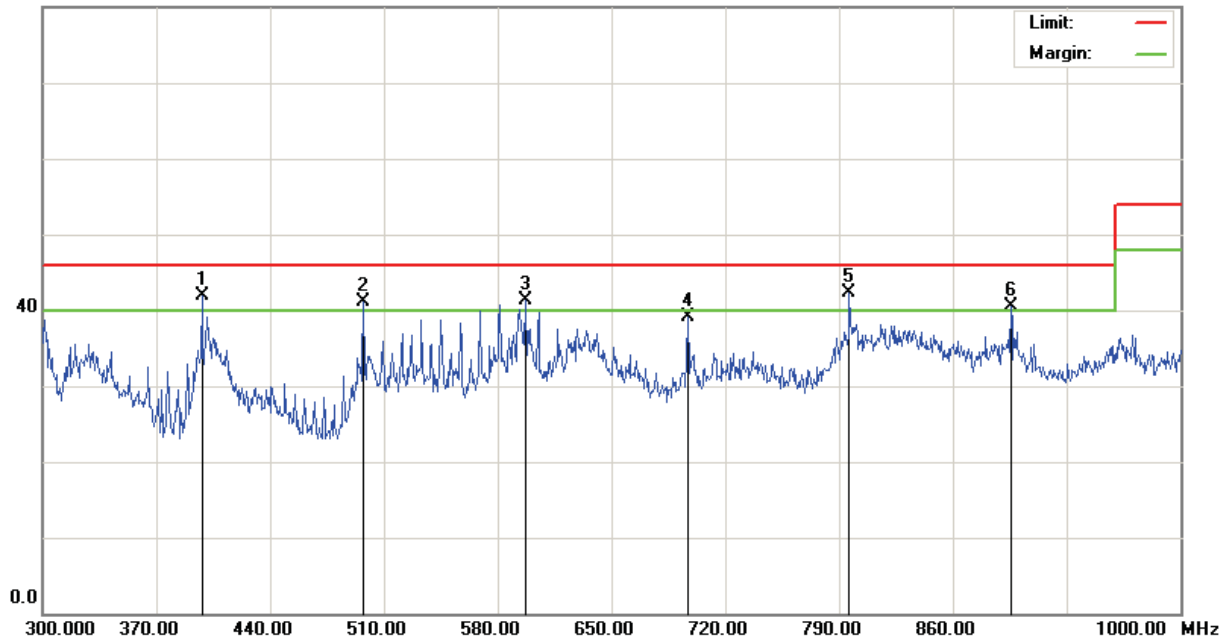
File :RH767(11g)

Data :#12

Date: 2009/2/24

Time:

80.0 dBuV



Site

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0020-E

Mode: WIFI(11g)

Note: 2462

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1	!	398.0000	50.23	-8.39	41.84	46.00	-4.16	peak		
2	!	497.4000	48.20	-7.12	41.08	46.00	-4.92	peak		
3	!	596.8000	46.17	-4.88	41.29	46.00	-4.71	peak		
4		696.9000	43.04	-3.85	39.19	46.00	-6.81	peak		
5	*	796.3000	44.68	-2.35	42.33	46.00	-3.67	peak		
6	!	895.7000	40.91	-0.49	40.42	46.00	-5.58	peak		

*:Maximum data x:Over limit !:over margin

●Reference Only

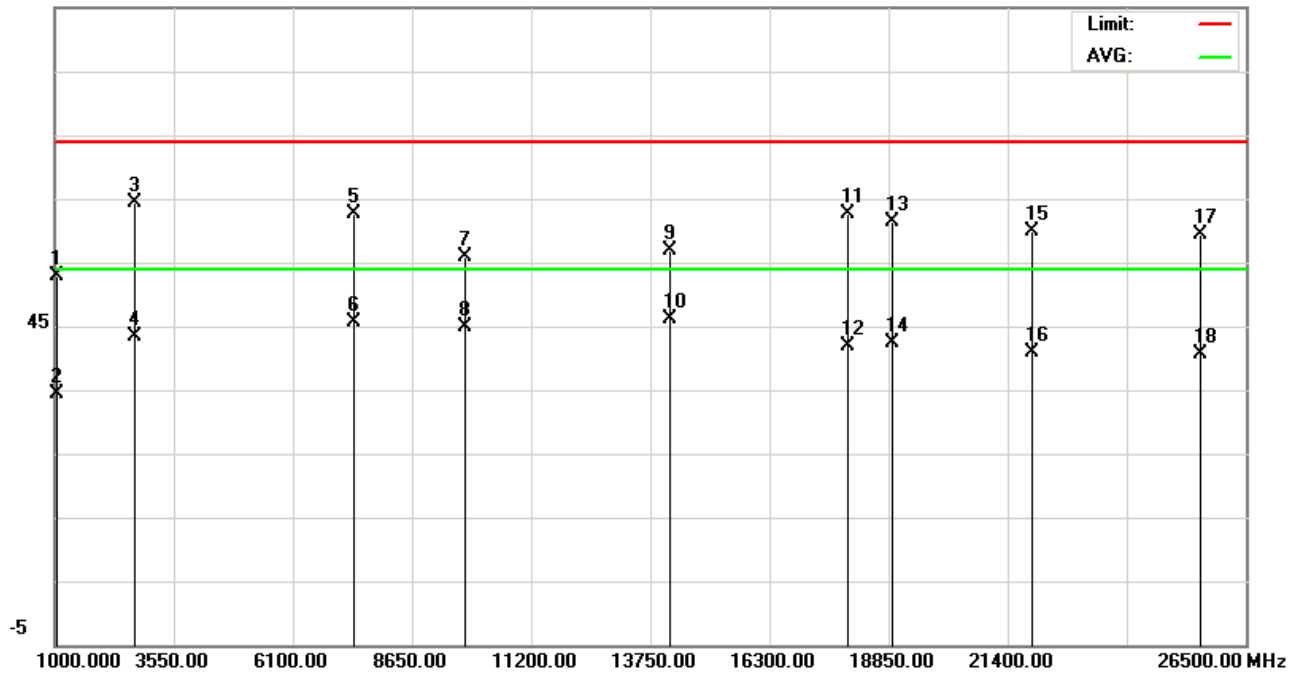


Data :#14

Date: 2009/2/6

Time: 上午 02:01:33

95.0 dBuV



Site site#1

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance:

M/N: 09-0020-E

Mode: WIFI(11g)

Note: CH11(2462MHz) , Antenna100cm , NB01

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		1044.200	59.08	-6.09	52.99	74.00	-21.01	peak		
2		1044.200	40.46	-6.09	34.37	54.00	-19.63	AVG		
3		2700.000	41.82	22.58	64.40	74.00	-9.60	peak		
4		2700.000	20.91	22.58	43.49	54.00	-10.51	AVG		
5		7390.250	49.13	13.59	62.72	74.00	-11.28	peak		
6		7390.250	31.95	13.59	45.54	54.00	-8.46	AVG		
7		9781.000	38.31	17.69	56.00	74.00	-18.00	peak		
8		9781.000	27.22	17.69	44.91	54.00	-9.09	AVG		
9		14140.00	38.03	18.84	56.87	74.00	-17.13	peak		
10	*	14140.00	27.38	18.84	46.22	54.00	-7.78	AVG		
11		17960.00	37.71	24.84	62.55	74.00	-11.45	peak		
12		17960.00	16.96	24.84	41.80	54.00	-12.20	AVG		
13		18913.75	38.34	23.14	61.48	74.00	-12.52	peak		

*:Maximum data x:Over limit !:over margin

●Reference Only



Site site#1

Limit: FCC part 15 (PK)

EUT:

M/N: 09-0020-E

Mode: WIFI(11g)

Note: CH11(2462MHz) , Antenna100cm , NB01

Polarization: **Vertical**

Power:

Distance:

Temperature: 22 °C

Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree
14		18913.75	19.26	23.14	42.40	54.00	-11.60	AVG		
15		21931.25	38.64	21.15	59.79	74.00	-14.21	peak		
16		21931.25	19.69	21.15	40.84	54.00	-13.16	AVG		
17		25522.50	40.46	18.97	59.43	74.00	-14.57	peak		
18		25522.50	21.58	18.97	40.55	54.00	-13.45	AVG		

*:Maximum data x:Over limit !:over margin

●Reference Only



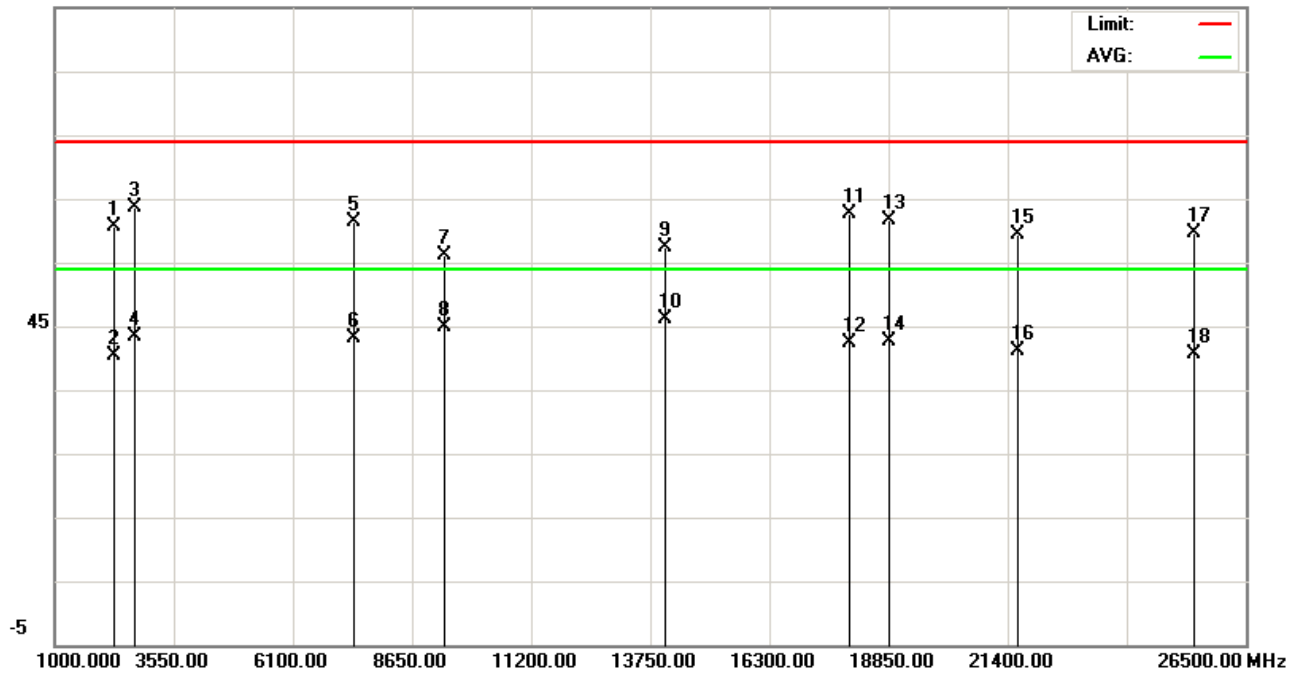
File :RH767(CH11)

Data :#16

Date: 2009/2/6

Time: 上午 02:05:47

95.0 dBuV



Site site#1

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance:

M/N: 09-0020-E

Mode: WIFI(11g)

Note: CH11(2462MHz) , Antenna100cm , NB01

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2254.600	60.08	0.48	60.56	74.00	-13.44	peak		
2		2254.600	39.81	0.48	40.29	54.00	-13.71	AVG		
3		2700.000	41.10	22.58	63.68	74.00	-10.32	peak		
4		2700.000	20.86	22.58	43.44	54.00	-10.56	AVG		
5		7390.250	47.86	13.59	61.45	74.00	-12.55	peak		
6		7390.250	29.62	13.59	43.21	54.00	-10.79	AVG		
7		9324.750	39.13	16.91	56.04	74.00	-17.96	peak		
8		9324.750	28.08	16.91	44.99	54.00	-9.01	AVG		
9		14060.00	38.57	18.72	57.29	74.00	-16.71	peak		
10	*	14060.00	27.37	18.72	46.09	54.00	-7.91	AVG		
11		18000.00	37.12	25.57	62.69	74.00	-11.31	peak		
12		18000.00	16.80	25.57	42.37	54.00	-11.63	AVG		
13		18850.00	38.41	23.15	61.56	74.00	-12.44	peak		

*:Maximum data x:Over limit !:over margin

●Reference Only



Site site#1

Limit: FCC part 15 (PK)

EUT:

M/N: 09-0020-E

Mode: WIFI(11g)

Note: CH11(2462MHz) , Antenna100cm , NB01

Polarization: **Horizontal**

Power:

Distance:

Temperature: 22 °C

Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree
14		18850.00	19.41	23.15	42.56	54.00	-11.44	AVG		
15		21591.25	38.17	21.30	59.47	74.00	-14.53	peak		
16		21591.25	19.78	21.30	41.08	54.00	-12.92	AVG		
17		25395.00	40.68	19.04	59.72	74.00	-14.28	peak		
18		25395.00	21.53	19.04	40.57	54.00	-13.43	AVG		

*:Maximum data x:Over limit !:over margin

●Reference Only

4. Maximum Conducted Output Power Requirements

4.1 Test Condition & Setup:

The EUT was setup to ANSI C63.4, 2003; tested to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

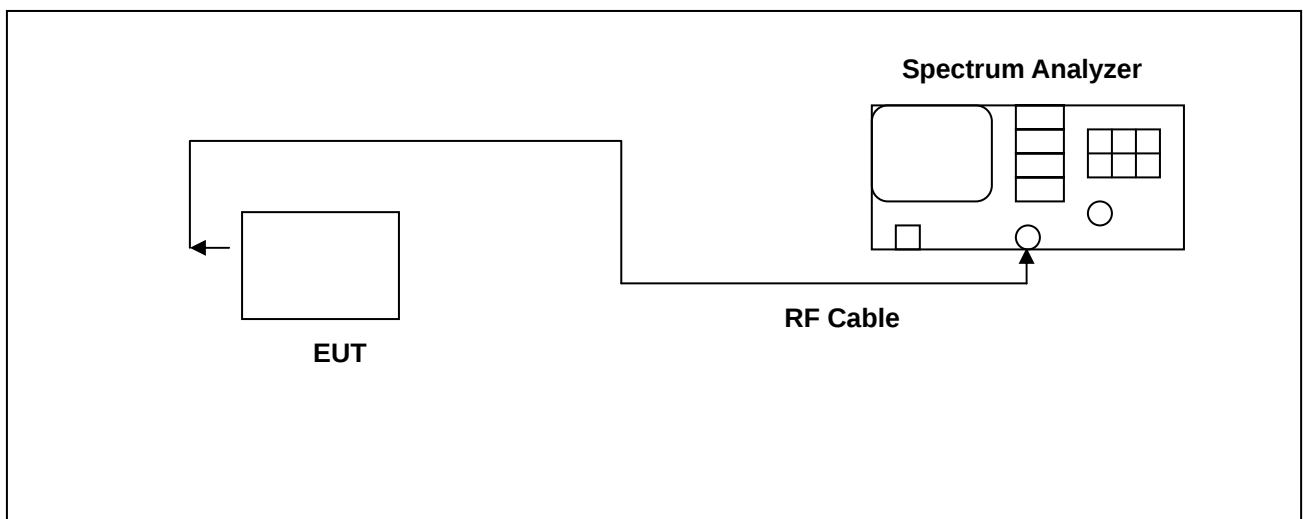
The tests below are run with the EUT's transmitter set at high power in TX mode. The EUT is needed to force selection of output power level and channel number. While testing, EUT was set to transmit continuously. Remove the Subjective device's antenna and connect the RF output port to spectrum analyzer. The maximum peak output power shall not exceed 1 watt.

Use a direct connection between the antenna port of transmitter and the spectrum Analyzer, for prevent the spectrum analyzer input attenuation 40-50 dB. Set the RBW Bandwidth of the emission or use a channel power meter mode.

For antennas with gains of 6 dBi or less, maximum allowed transmitter output is 1 watt (+30 dBm). For antennas with gains greater than 6 dBi, transmitter output level must be decreased by an amount equal to $(\text{GAIN} - 6)/3$ dBm.

The antenna port of the EUT was connected to the input of a power meter. Power was read directly and cable loss correction was added to the reading to obtain power at the EUT antenna terminals.

4.2 Test Instruments Configuration:





4.3 Test Equipment List:

Describe	Manufacturer	Model	Serial Number	Calibration	
				Cal. Date	Due Date
Spectrum Analyzer	Agilent	E4445A	MY45300744	Dec. 22, 2008	Dec. 22, 2009

4.4 Test Result:

802.11b

Frequency (MHz)	Output (dBm)	Required Limit
2412	18.24	<30dBm
2437	19.25	<30dBm
2462	17.29	<30dBm

802.11g

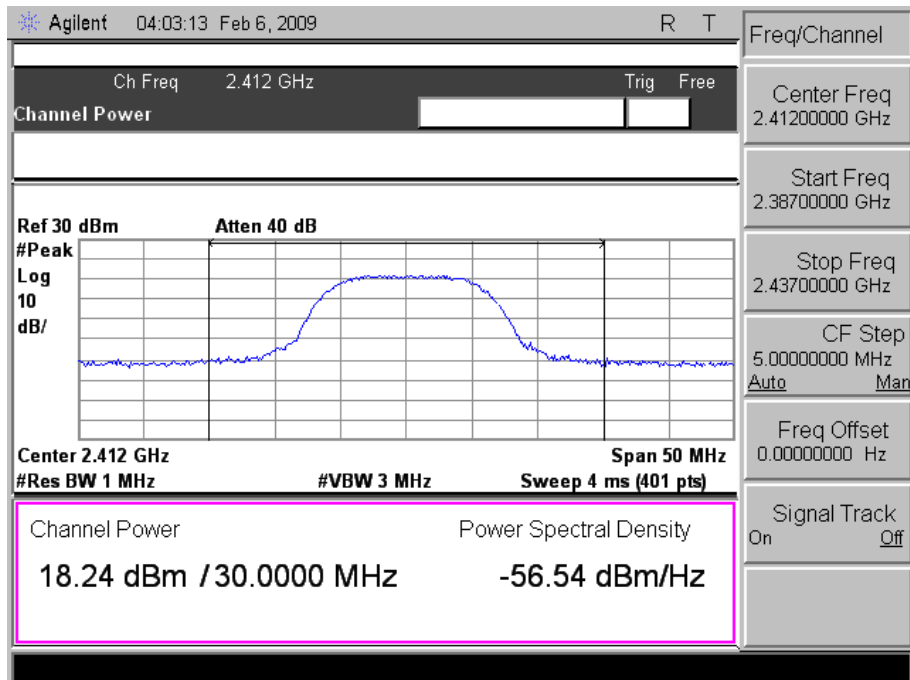
Frequency (MHz)	Output (dBm)	Required Limit
2412	19.61	<30dBm
2437	19.11	<30dBm
2462	18.73	<30dBm

Note: Test Graphs See next page.

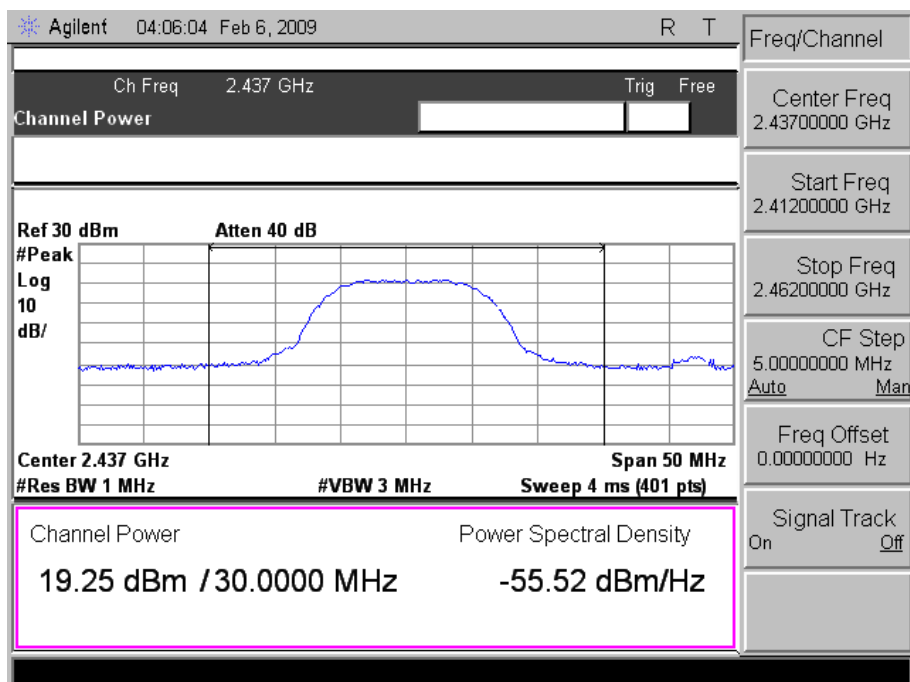


4.5 Test Graphs

802.11b CH1 (2412MHz)

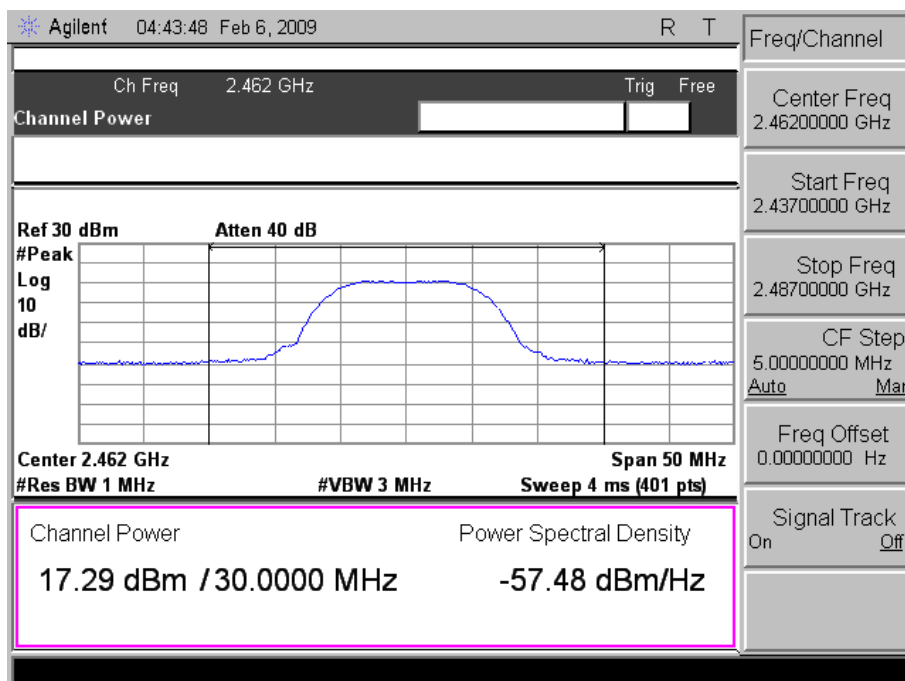


802.11b CH6 (2437MHz)



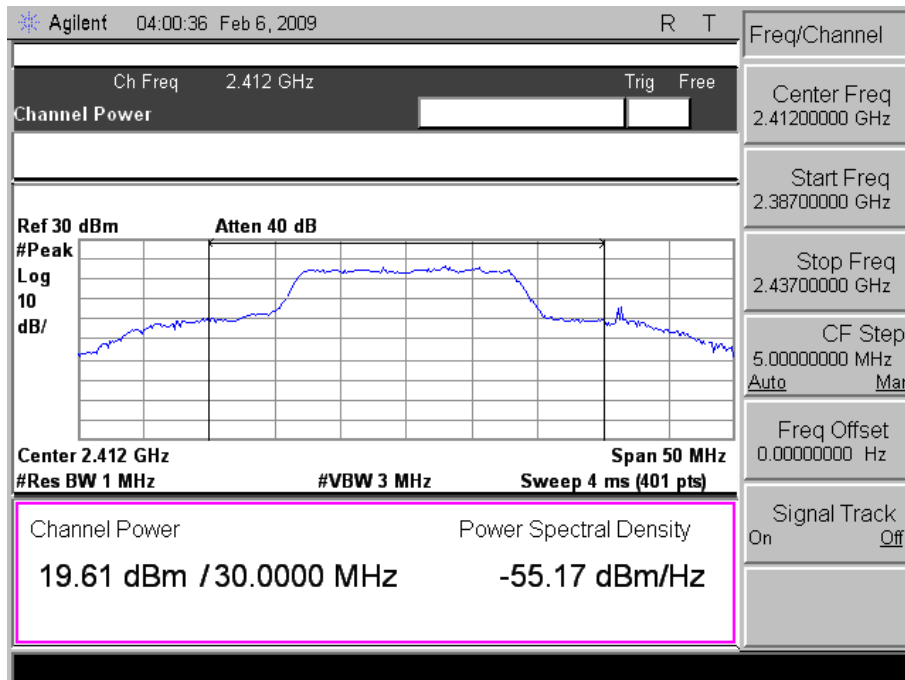


802.11b CH11 (2462MHz)

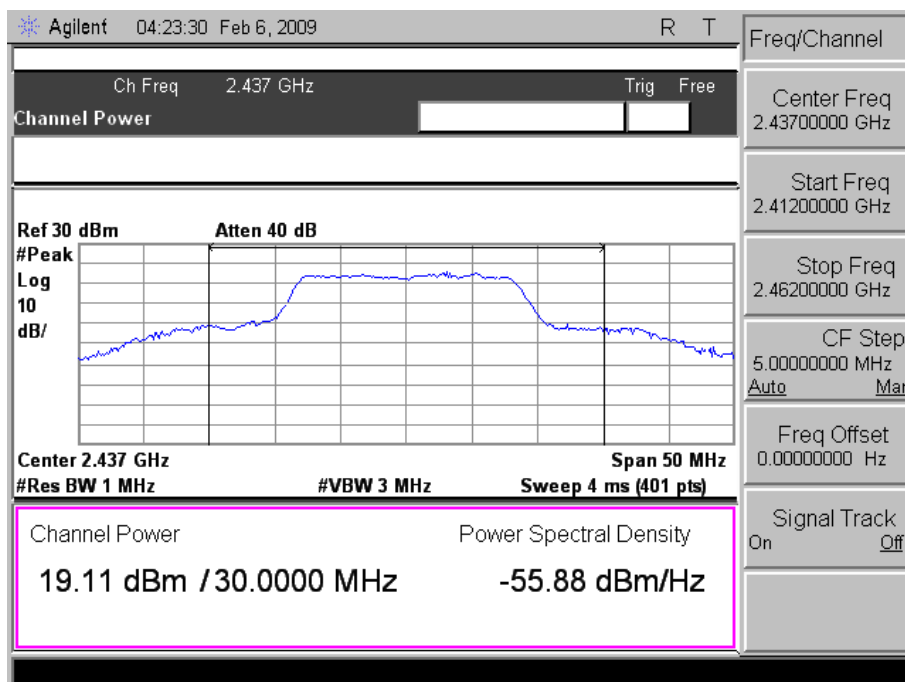




802.11g CH1 (2412MHz)

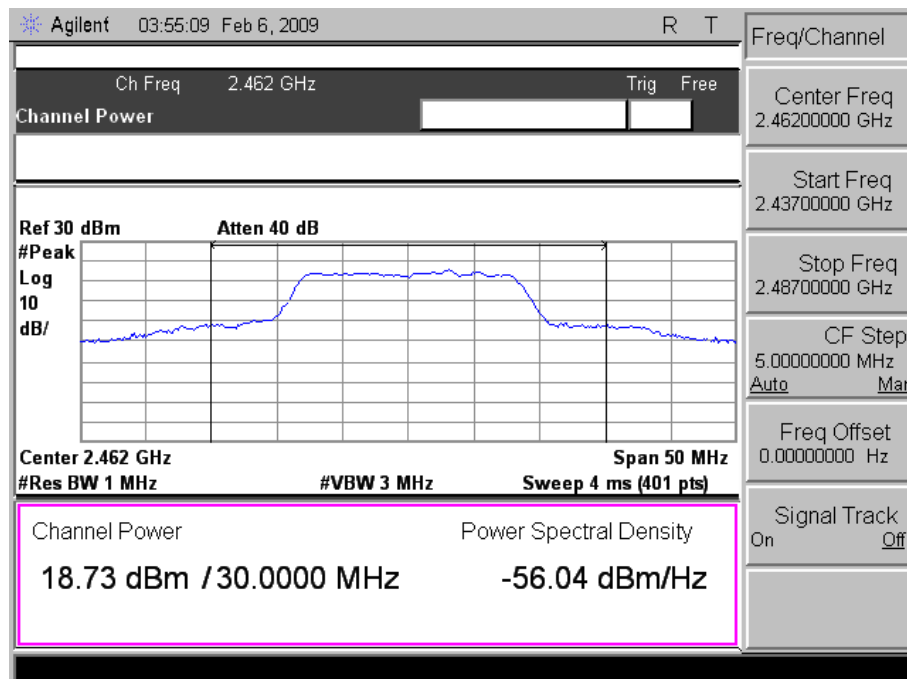


802.11g CH6 (2437MHz)





802.11g CH11 (2462MHz)





5. Minimum 6dB RF Bandwidth Requirements

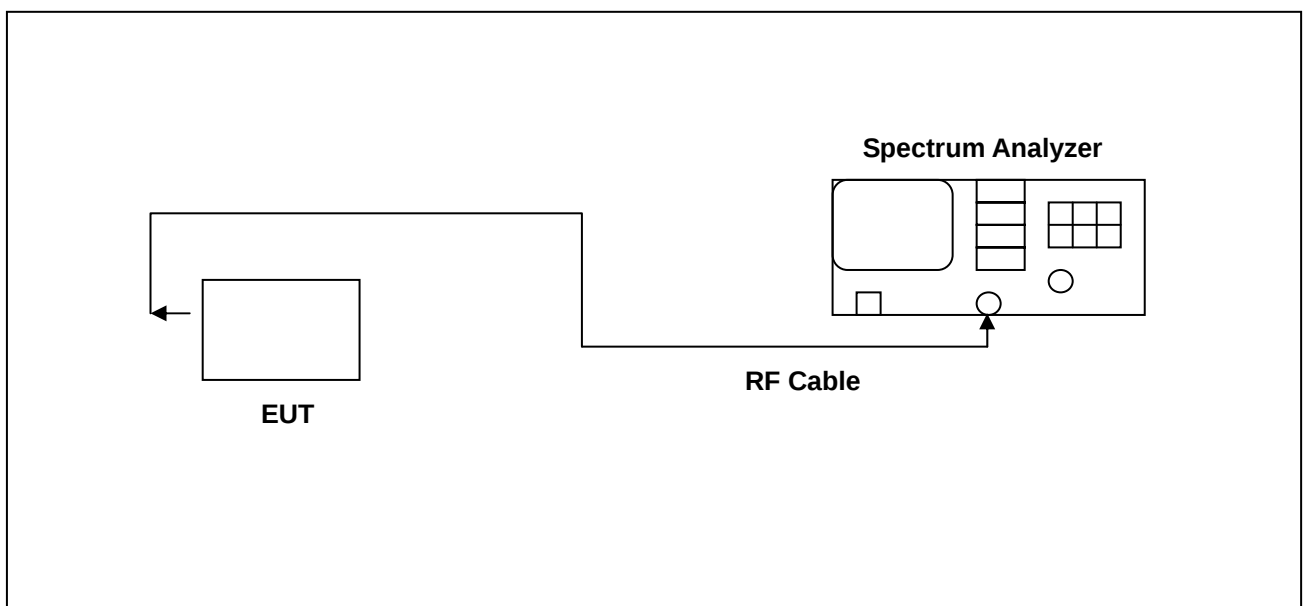
5.1 Test Condition & Setup:

The EUT was setup to ANSI C63.4, 2003; tested to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RES BW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK output reading was taken, a DISPLAY line was drawn 6 dB lower than PEAK level. The 6 dB bandwidth was determined from where the channel output spectrum intersected the display line.

The test was performed at 3 channels (Channel 1, 6, 11)

5.2 Test Instruments Configuration:



5.3 Test Equipment List:

Describe	Manufacturer	Model	Serial Number	Calibration	
				Cal. Date	Due Date
Spectrum Analyzer	Agilent	E4445A	MY45300744	Dec. 22, 2008	Dec. 22, 2009



5.4 Test Result:

802.11b

Frequency (MHz)	Min. 6dB Bandwidth (MHz)	Required Limit
2412	12.000	> 500 KHz
2437	10.875	> 500 KHz
2462	11.500	> 500 KHz

802.11g

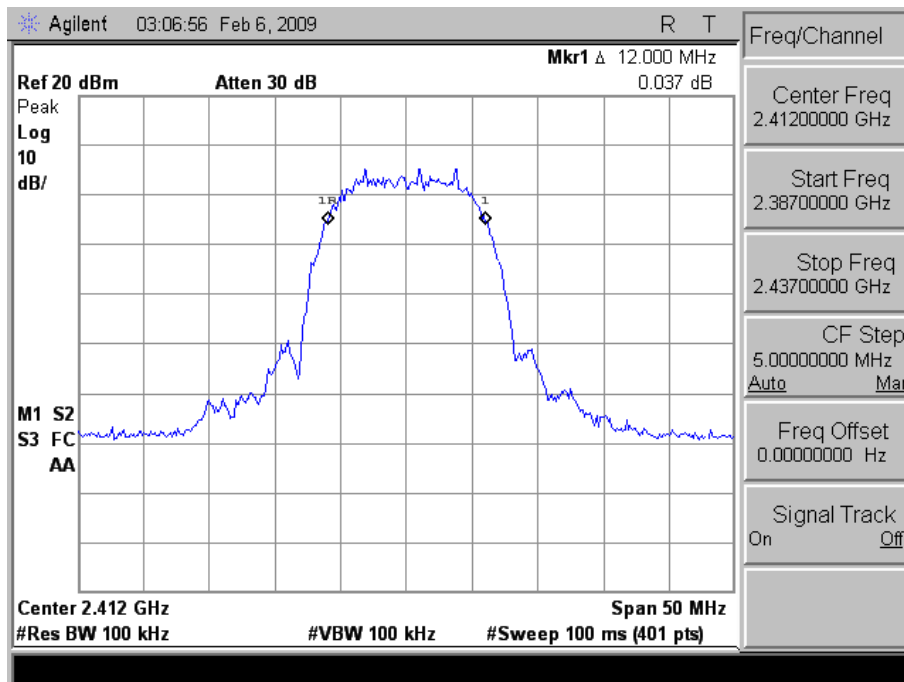
Frequency (MHz)	Min. 6dB Bandwidth (MHz)	Required Limit
2412	17.300	> 500 KHz
2437	17.125	> 500 KHz
2462	17.250	> 500 KHz

Note: Test Graphs See next page.

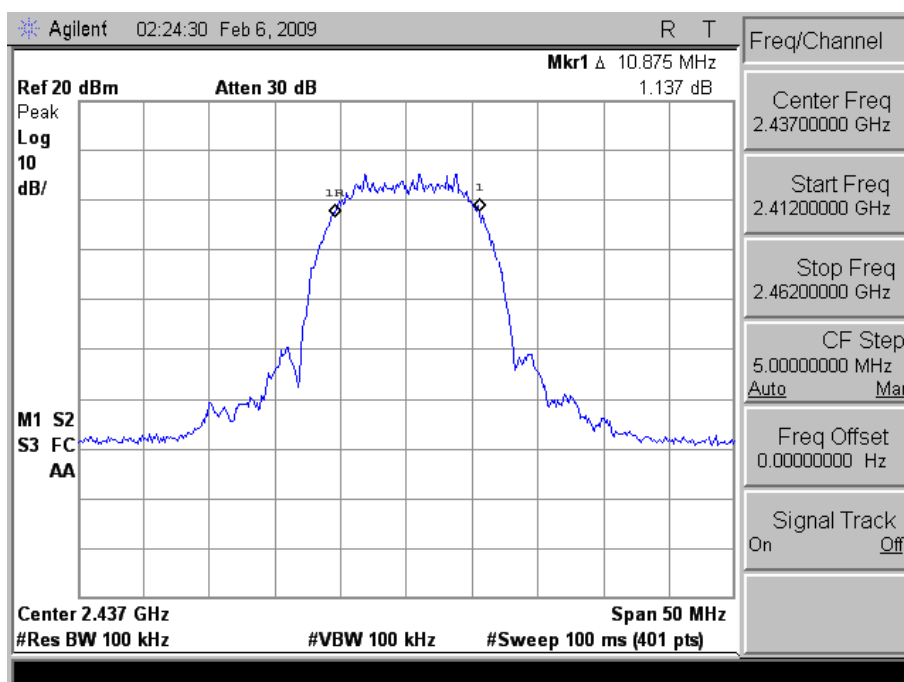


5.5 Test Graphs

802.11b (2412MHz)

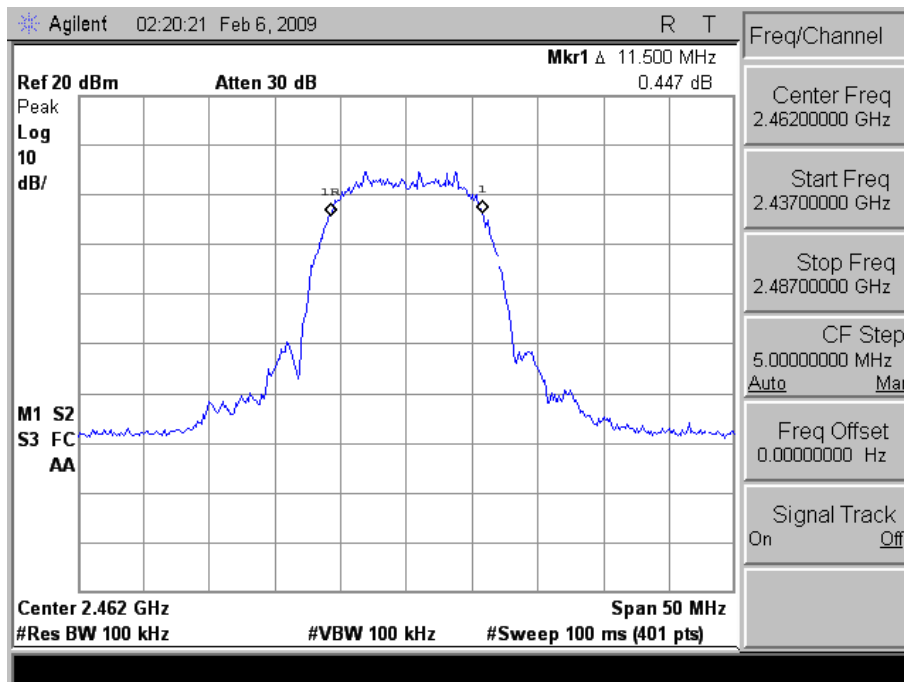


802.11b (2437MHz)



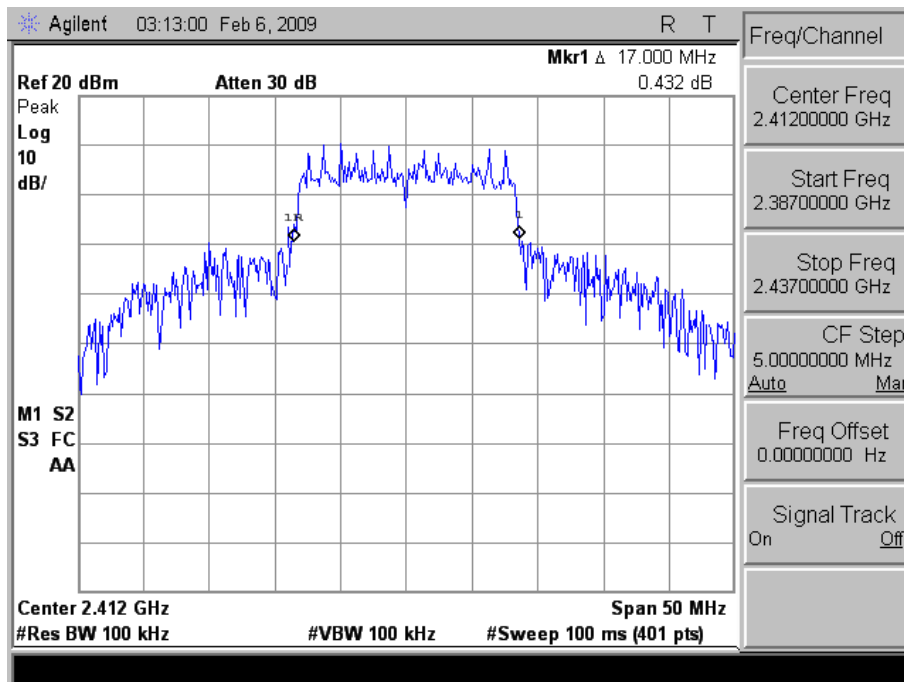


802.11b (2462MHz)

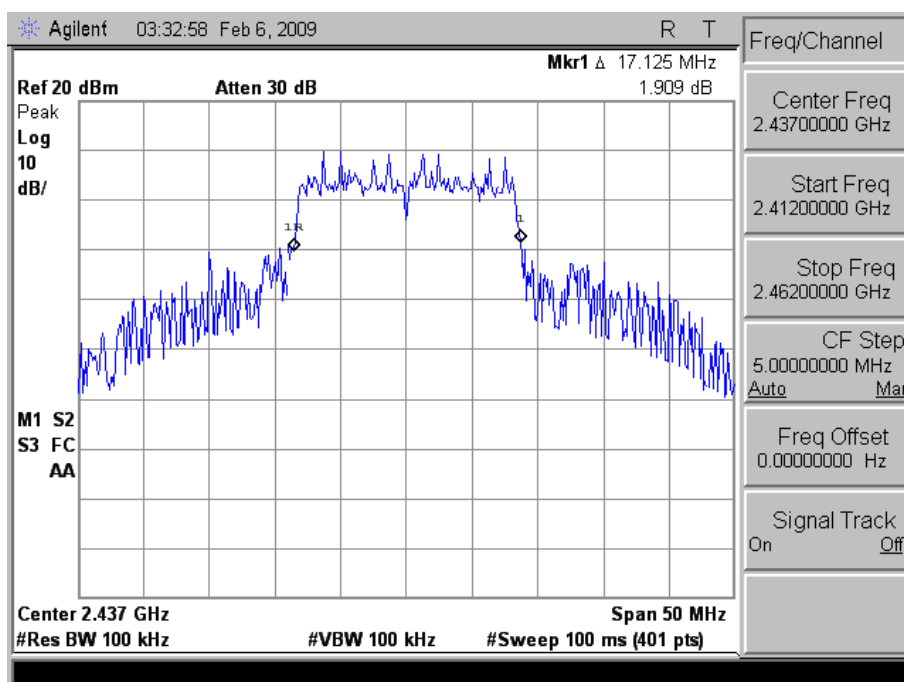




802.11g (2412MHz)

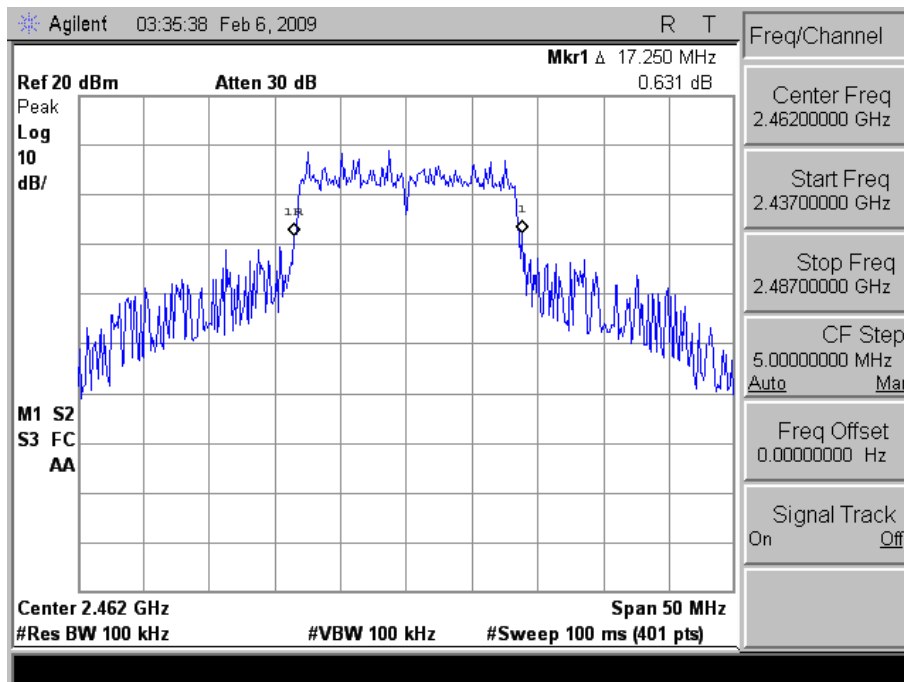


802.11g (2437MHz)





802.11g (2462MHz)



6. Maximum Power Density Requirements

6.1 Test Condition & Setup:

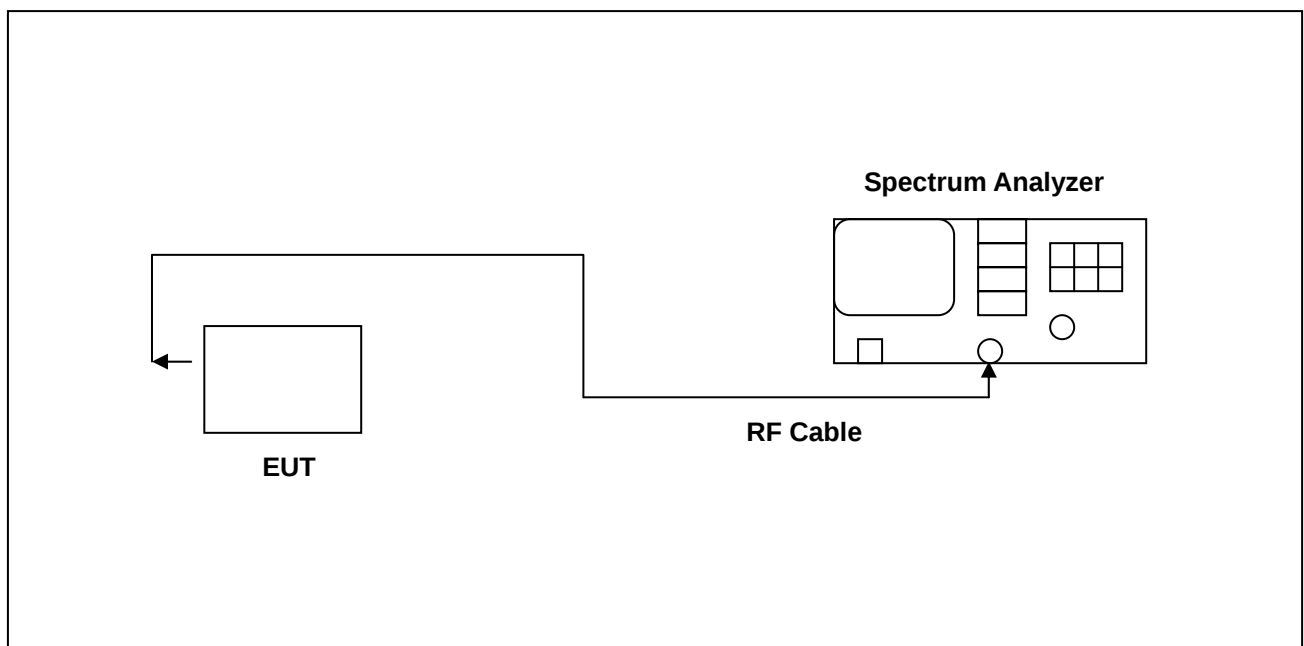
The EUT was setup to ANSI C63.4, 2003; tested to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The spectrum analyzer RES BW was set to 3 kHz. The START and STOP frequencies were set to the band edges of the maximum output pass band. If there is no clear maximum amplitude in any given portion of the band, it may be necessary to make measurements at a number of bands defined by several START and STOP frequency pairs. The specification calls for a 1 second interval at each 3 kHz bandwidth; total SWEEP TIME is calculated as follows:

$$\text{SWEEP TIME (SEC)} = (\text{Fstop, kHz} - \text{Fstart, kHz}) / 3 \text{ kHz}$$

Antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function.

6.2 Test Instruments Configuration:





6.3 Test Equipment List:

Describe	Manufacturer	Model	Serial Number	Calibration	
				Cal. Date	Due Date
Spectrum Analyzer	Agilent	E4445A	MY45300744	Dec. 22, 2008	Dec. 22, 2009

6.4 Test Result:

802.11b

Frequency (MHz)	Power Density (dBm)	Required Limit
2412	-8.816	<8dBm
2437	-10.530	<8dBm
2462	-11.430	<8dBm

802.11g

Frequency (MHz)	Power Density (dBm)	Required Limit
2412	-10.55	<8dBm
2437	-10.39	<8dBm
2462	-10.83	<8dBm

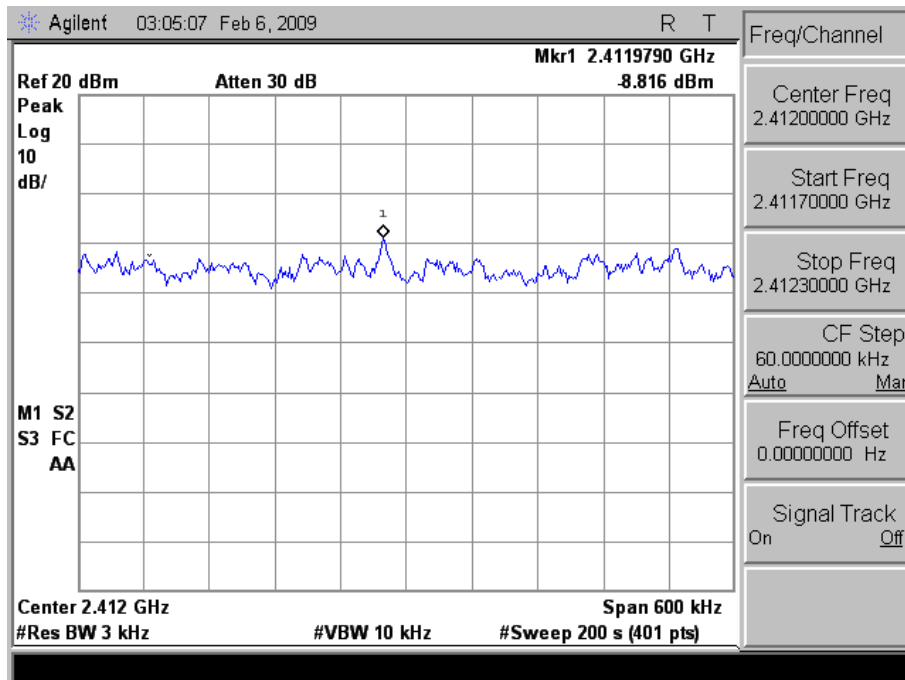
Note:

1. Frequency Span= 600 kHz
2. Sweep Time = Frequency Span/3 kHz=200secs
3. Test Graphs See next page.

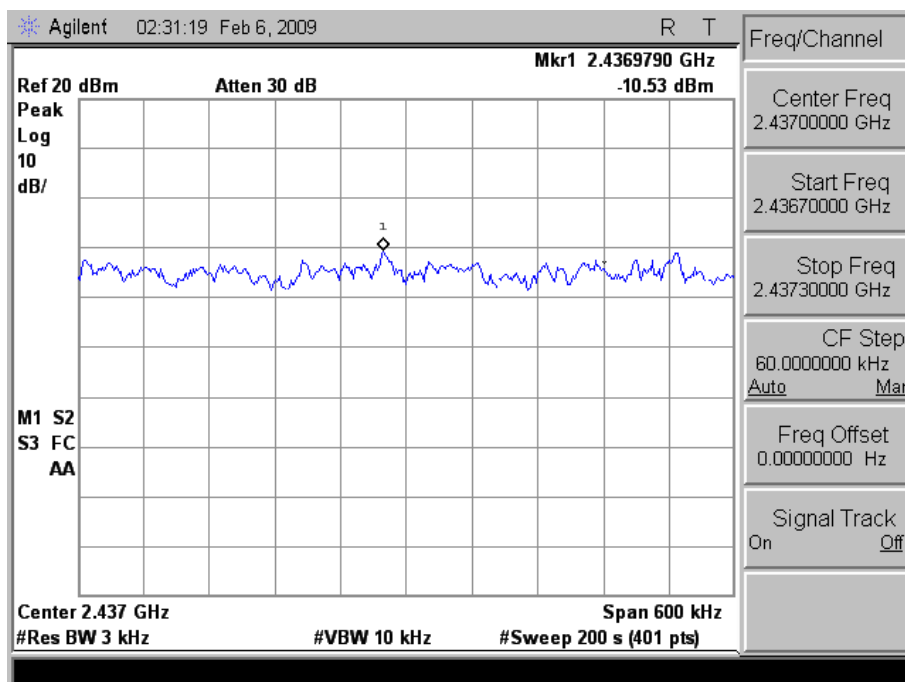


6.5 Test Graphs

802.11b (2412MHz)

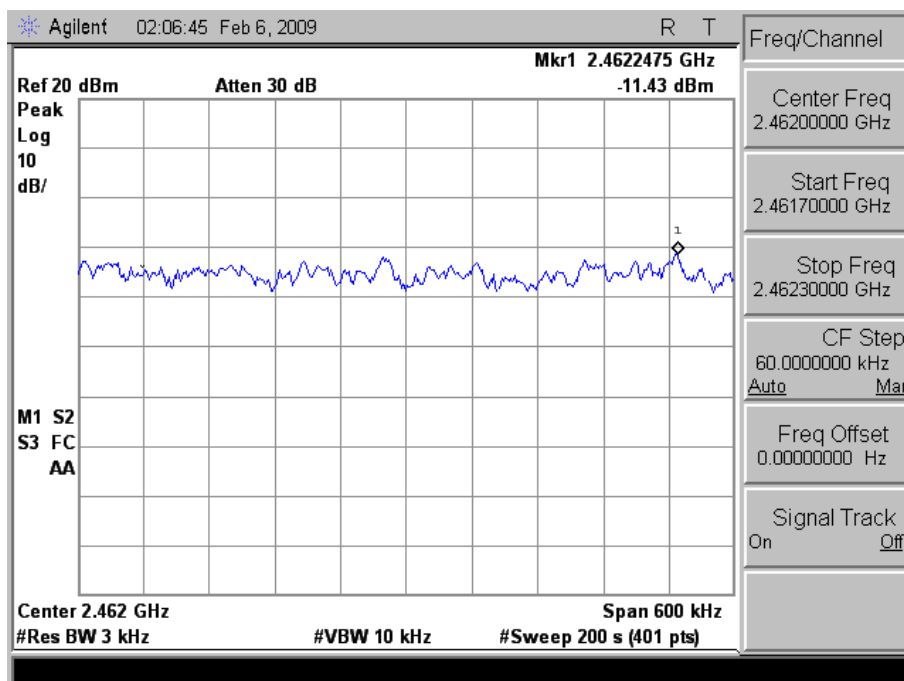


802.11b (2437MHz)



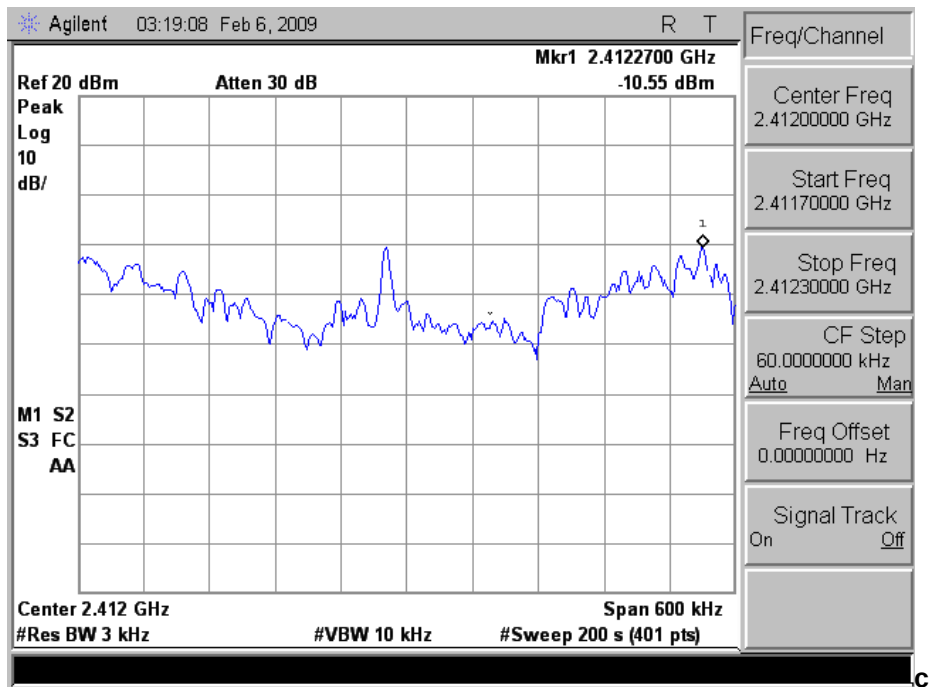


802.11b (2462MHz)

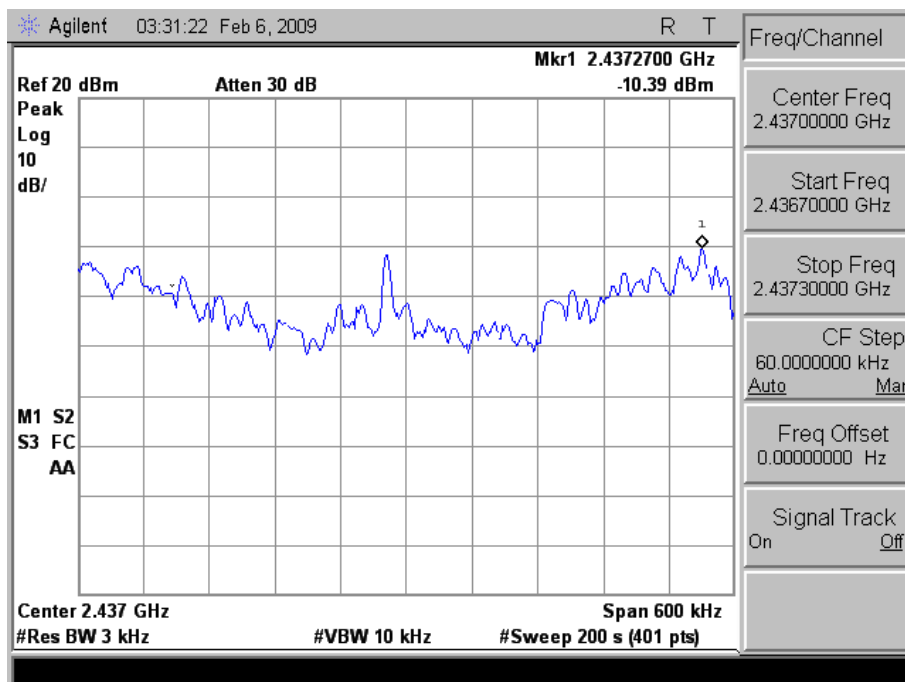




802.11g (2412MHz)

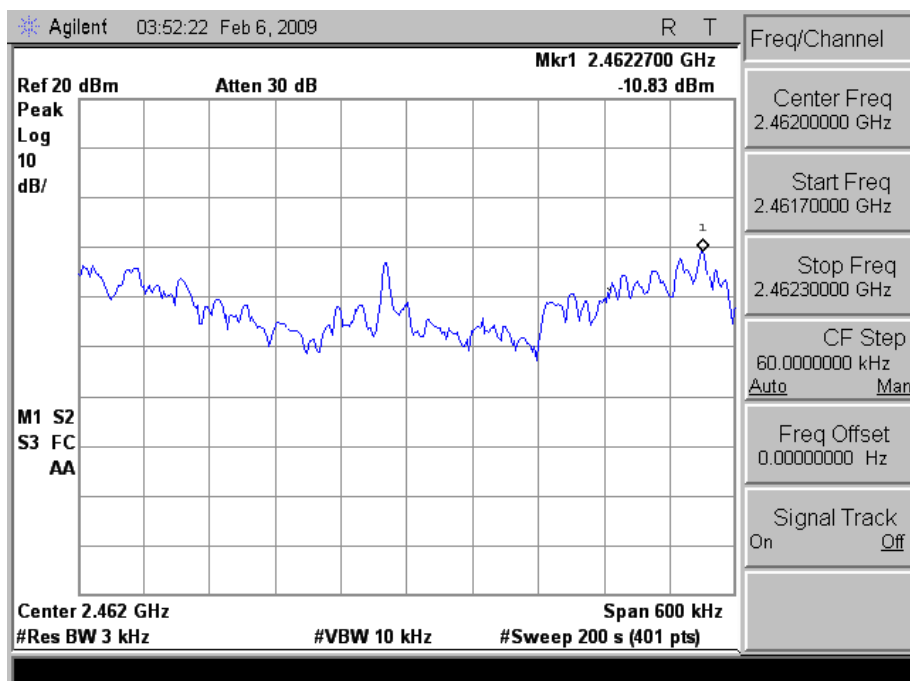


802.11g (2437MHz)





802.11g (2462MHz)



7. Out of Band Conducted Emissions Requirements

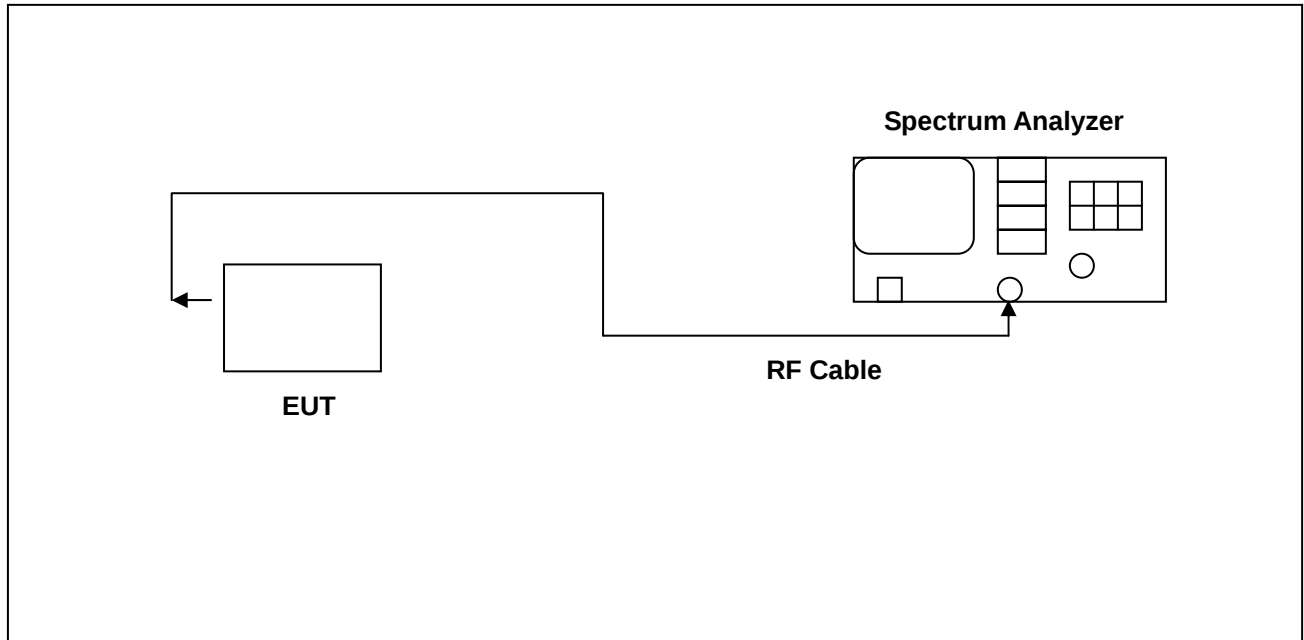
7.1 Test Condition & Setup:

The EUT was setup to ANSI C63.4, 2003; tested to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

In any 100 kHz bandwidth outside the EUT pass band, the RF power produced by the modulation products of the spreading sequence, the information sequence, and the carrier frequency shall be at least 20 dB below that of the maximum in-band 100 kHz emission, antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function.

All other types of emissions from the EUT shall meet the general limits for radiated frequencies outside the pass band. The test was performed at 3 channels (Channel 1, 6, 11)

7.2 Test Instruments Configuration:





7.3 Test Equipment List:

Describe	Manufacturer	Model	Serial Number	Calibration	
				Cal. Date	Due Date
Spectrum Analyzer	Agilent	E4445A	MY45300744	Dec.22, 2008	Dec.22, 2009

7.4 Test Result:

Refer to attached data sheets. Data shows out of band emissions are suppressed well below the -20 dBc minimum required by the Rules.

Note: Test Graphs See next page.



7.5 Test Graphs

7.5.1 802.11b Test Graphs

Please refer to next pager of detail testing data.



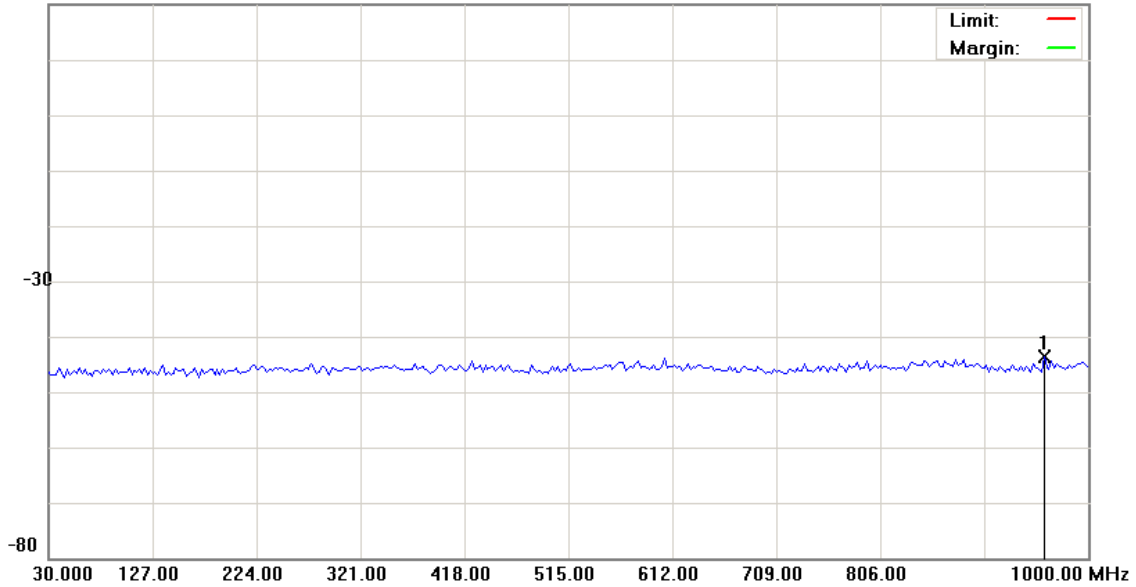
File :WIFI(11b)

Data :#1

Date:2009/2/5

Time: 下午 04:36:44

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0020-E

Mode: WIFI(11b)

Note: 2412MHz

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	dBm	Factor	ment	dBm	dB	Height	Degree	
				dB	dBm			cm	degree	Comment
1	*	958.7750	-44.68	1.00	-43.68			peak		

*:Maximum data x:Over limit !:over margin



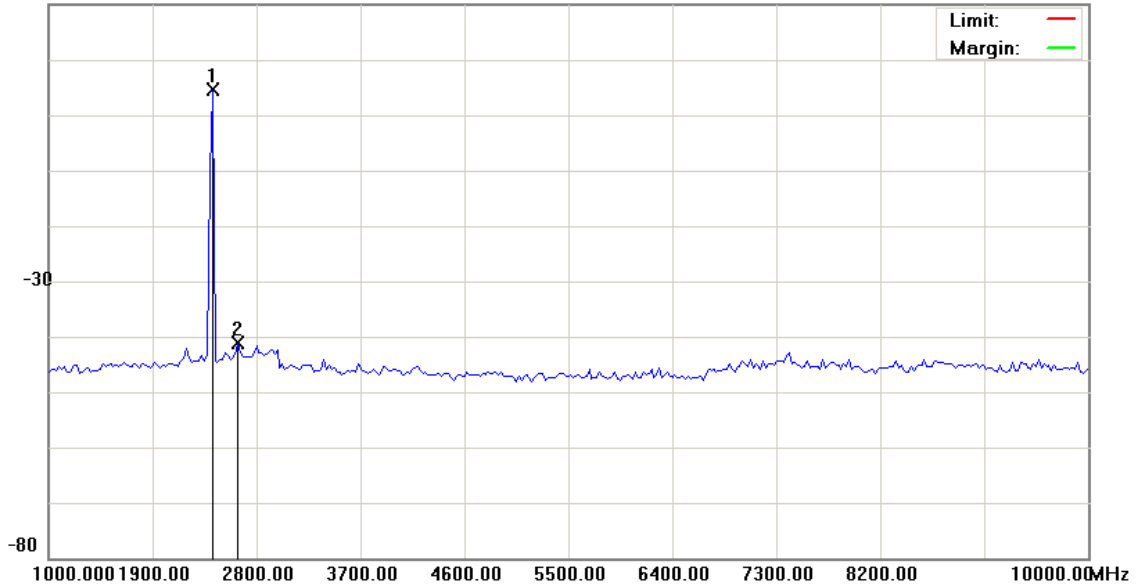
File :WIFI(11b)

Data :#2

Date:2009/2/5

Time: 下午 04:36:58

20.0 dBm



Site: site #1

Limit:

EUT:

M/N: 09-0020-E

Mode: WIFI(11b)

Note: 2412MHz

Polarization:

Power: AC 110V/60Hz

Distance:

Temperature: 26 °C

Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2417.500	3.69	1.00	4.69					peak
2		2642.500	-42.14	1.00	-41.14					peak

*:Maximum data x:Over limit !:over margin



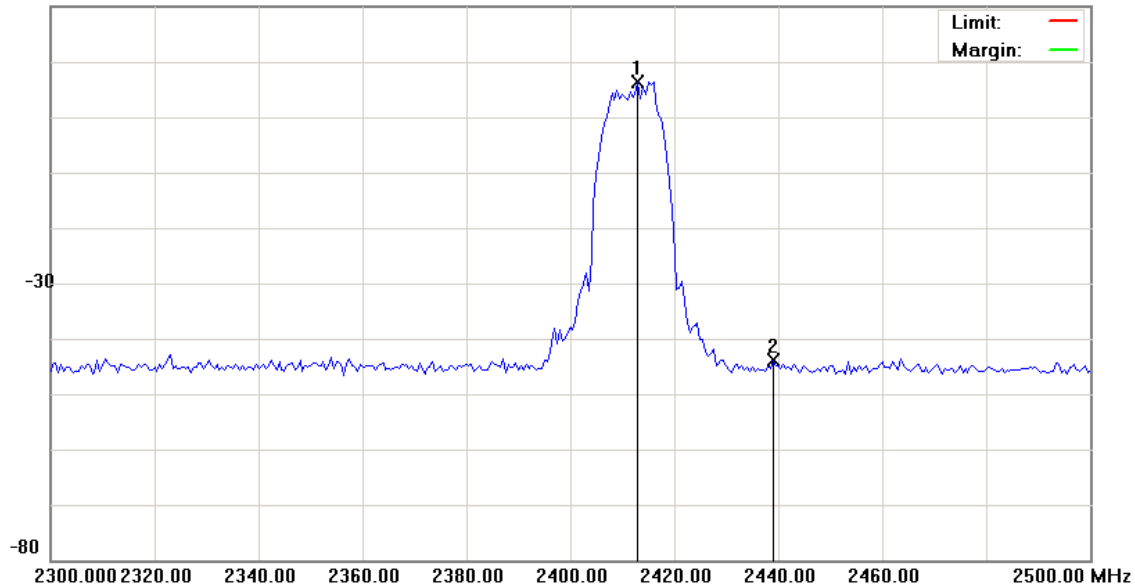
File :WIFI(11b)

Data :#3

Date:2009/2/5

Time: 下午 04:37:12

20.0 dBm



Site: site #1

Limit:

EUT:

M/N: 09-0020-E

Mode: WIFI(11b)

Note: 2412MHz

Polarization:

Power: AC 110V/60Hz

Distance:

Temperature: 26 °C

Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2413.000	5.42	1.00	6.42			peak		
2		2439.000	-44.85	1.00	-43.85			peak		

*:Maximum data x:Over limit !:over margin



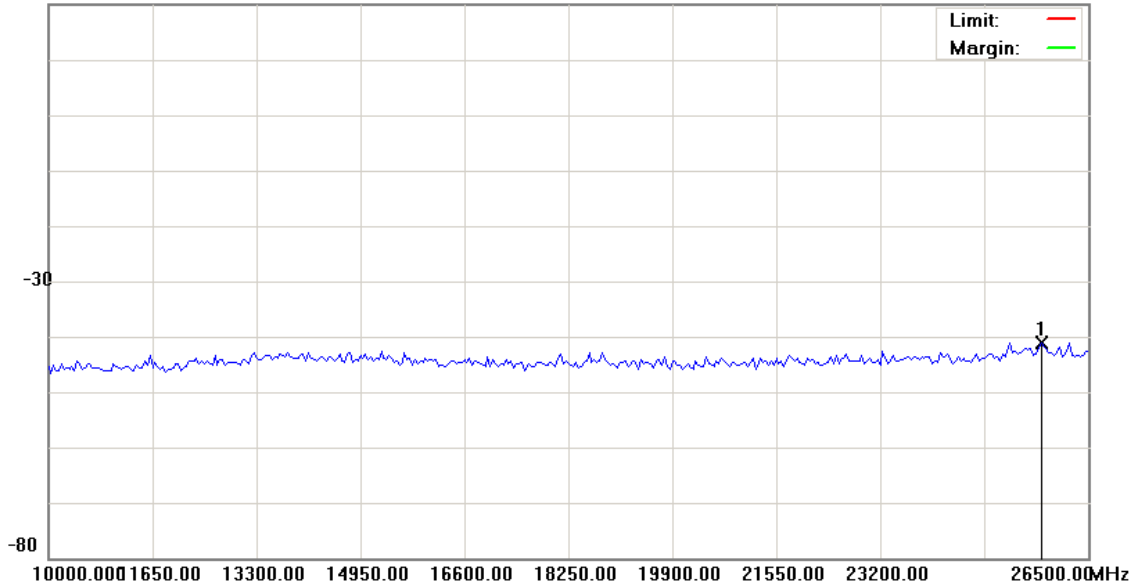
File :WIFI(11b)

Data :#4

Date:2009/2/5

Time: 下午 04:37:26

20.0 dBm



Site: site #1	Polarization:	Temperature: 26 °C
Limit:	Power: AC 110V/60Hz	Humidity: 55 %
EUT:	Distance:	
M/N: 09-0020-E		
Mode: WIFI(11b)		
Note: 2412MHz		

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	25757.500	-42.10	1.00	-41.10			peak		

*:Maximum data x:Over limit !:over margin



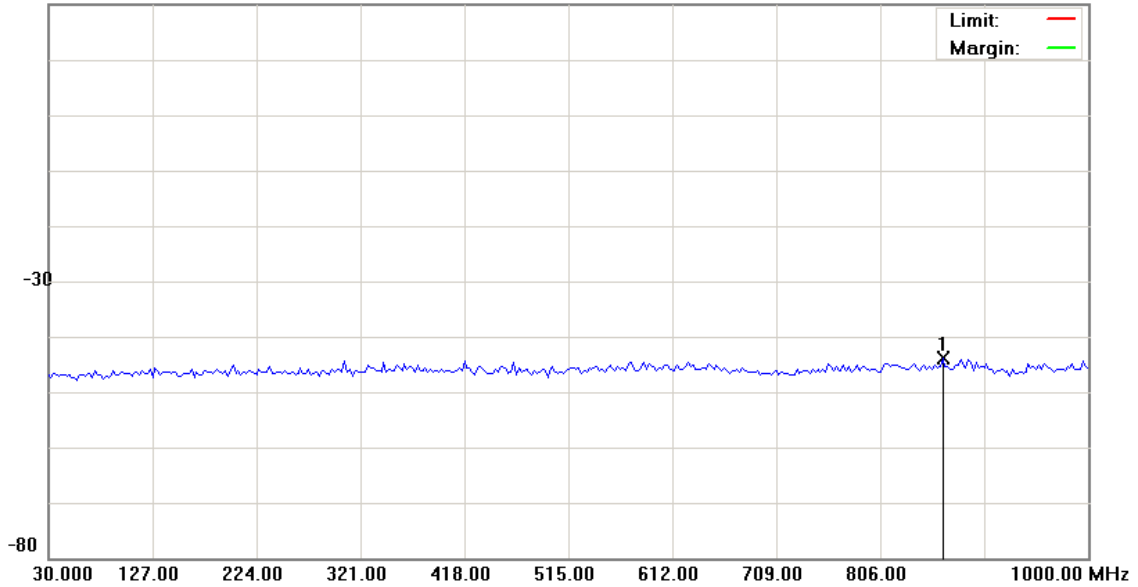
File :WIFI(11b)

Data :#5

Date:2009/2/5

Time: 下午 02:56:44

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0020-E

Mode: WIFI(11b)

Note: 2437MHz

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	864.2000	-44.93	1.00	-43.93			peak		

*:Maximum data x:Over limit !:over margin



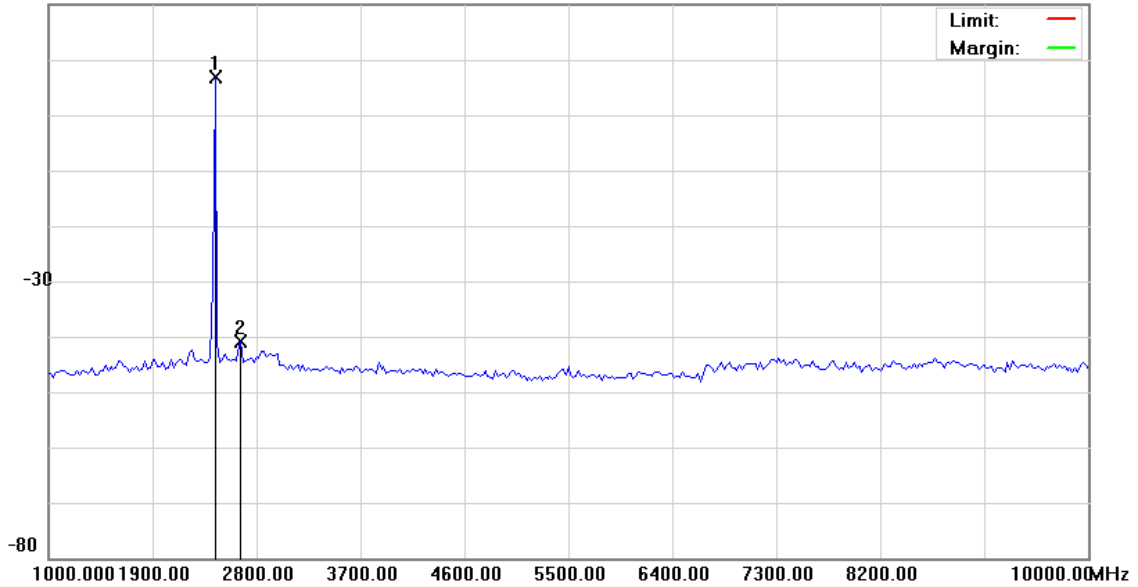
File :WIFI(11b)

Data :#6

Date:2009/2/5

Time: 下午 02:56:58

20.0 dBm



Site: site #1
Limit:
EUT:
M/N: 09-0020-E
Mode: WIFI(11b)
Note: 2437MHz

Polarization:
Power: AC 110V/60Hz
Distance:

Temperature: 26 °C
Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2440.000	5.86	1.00	6.86			peak		
2		2665.000	-41.76	1.00	-40.76			peak		

*:Maximum data x:Over limit !:over margin



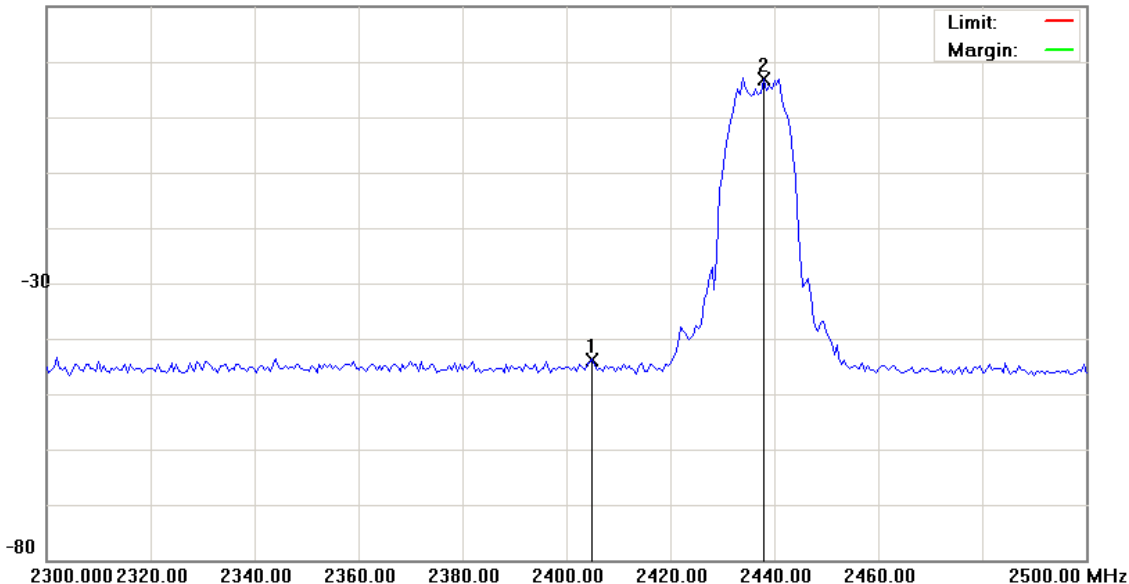
File :WIFI(11b)

Data :#7

Date:2009/2/5

Time: 下午 02:57:12

20.0 dBm



Site: site #1

Limit:

EUT:

M/N: 09-0020-E

Mode: WIFI(11b)

Note: 2437MHz

Polarization:

Power: AC 110V/60Hz

Distance:

Temperature: 26 °C

Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2405.000	-44.75	1.00	-43.75			peak		
2	*	2438.000	5.91	1.00	6.91			peak		

*:Maximum data x:Over limit !:over margin



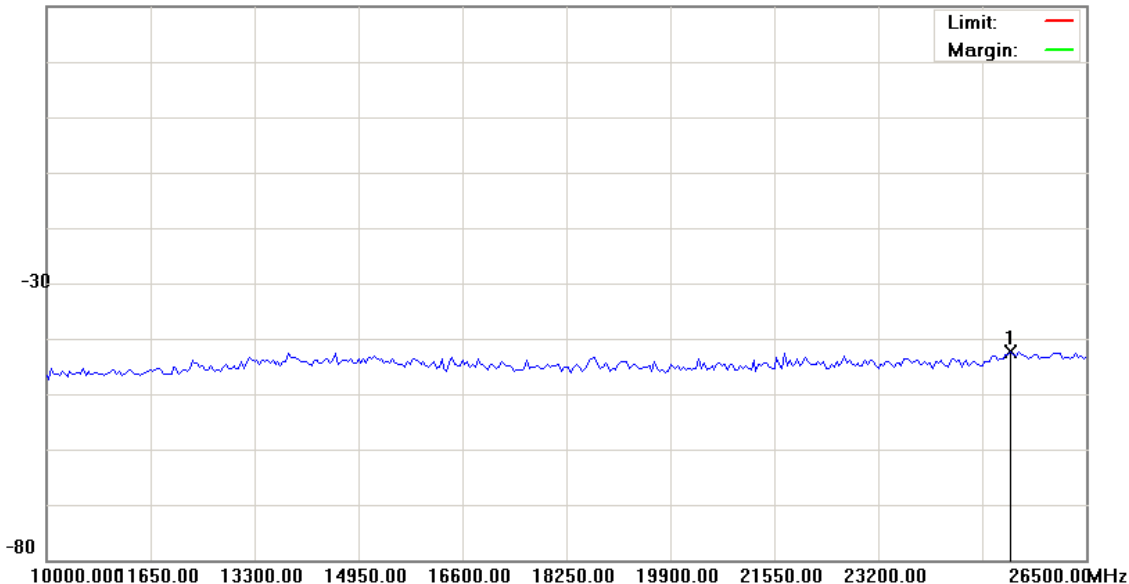
File :WIFI(11b)

Data :#8

Date:2009/2/5

Time: 下午 02:57:26

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0020-E

Mode: WIFI(11b)

Note: 2437MHz

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	25303.750	-43.38	1.00	-42.38			peak		

*:Maximum data x:Over limit !:over margin



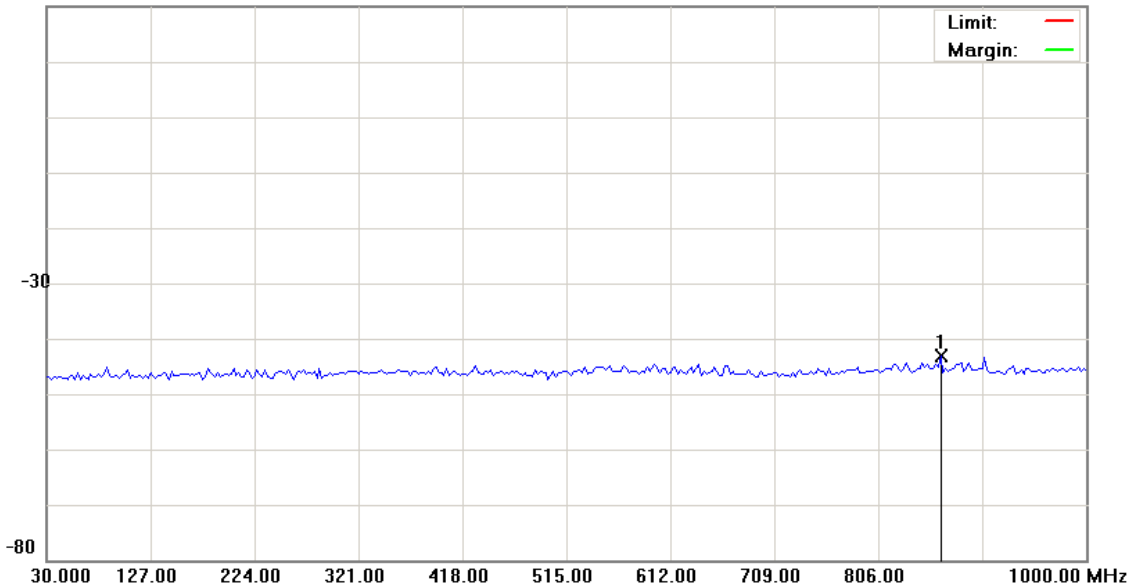
File :WIFI(11b)

Data :#9

Date:2009/2/5

Time: 下午 02:59:40

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0020-E

Mode: WIFI(11b)

Note: 2462MHz

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	864.2000	-44.13	1.00	-43.13			peak		

*:Maximum data x:Over limit !:over margin



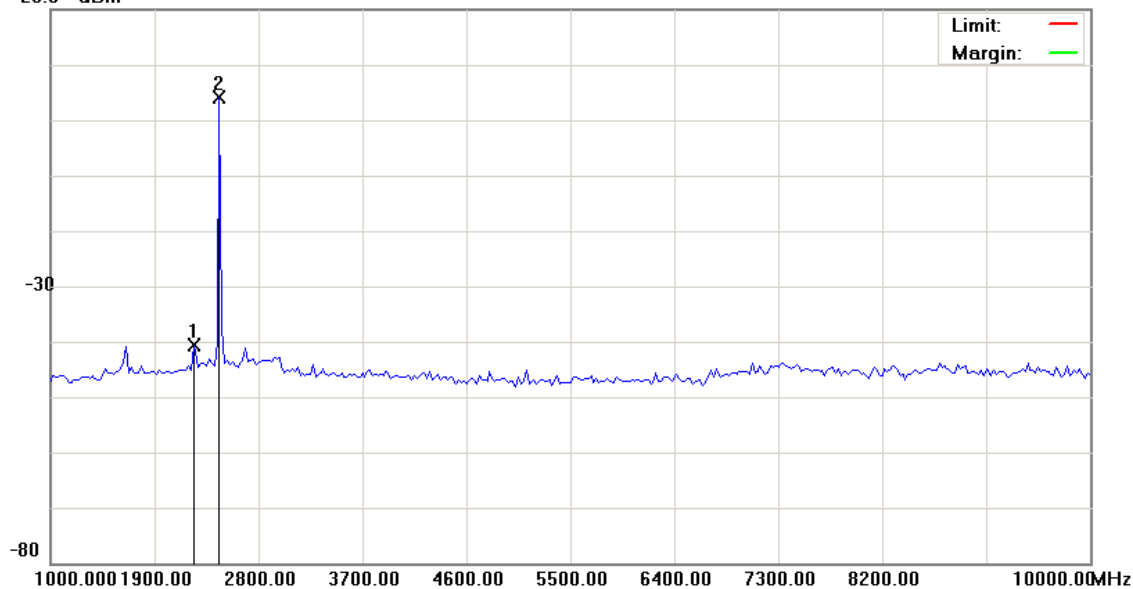
File :WIFI(11b)

Data :#10

Date:2009/2/5

Time: 下午 02:59:53

20.0 dBm



Site: site #1

Limit:

EUT:

M/N: 09-0020-E

Mode: WIFI(11b)

Note: 2462MHz

Polarization:

Power: AC 110V/60Hz

Distance:

Temperature: 26 °C

Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2237.500	-41.54	1.00	-40.54					peak
2	*	2462.500	3.22	1.00	4.22					peak

*:Maximum data x:Over limit !:over margin



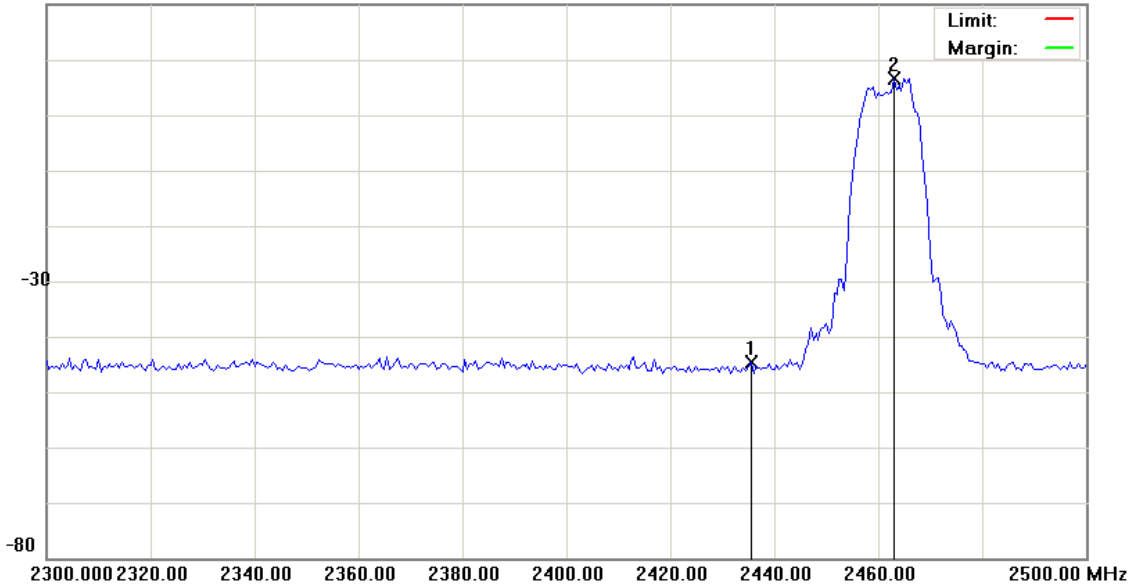
File :WIFI(11b)

Data :#11

Date:2009/2/5

Time: 下午 03:00:07

20.0 dBm



Site: site #1

Limit:

EUT:

M/N: 09-0020-E

Mode: WIFI(11b)

Note: 2462MHz

Polarization:

Power: AC 110V/60Hz

Distance:

Temperature: 26 °C

Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2435.500	-45.70	1.00	-44.70			peak		
2	*	2463.000	5.58	1.00	6.58			peak		

*:Maximum data x:Over limit !:over margin

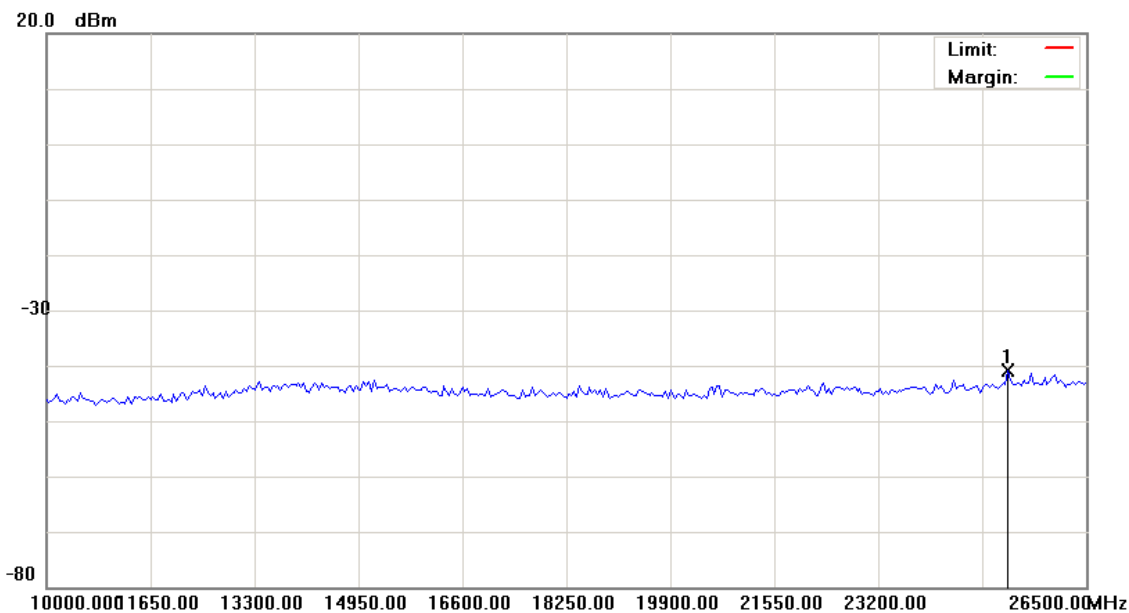


File :WIFI(11b)

Data :#12

Date:2009/2/5

Time: 下午 03:00:21



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0020-E

Mode: WIFI(11b)

Note: 2462MHz

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	25262.500	-41.81	1.00	-40.81			peak		

*:Maximum data x:Over limit !:over margin



7.5.2 802.11g Test Graphs

Please refer to next pager of detail testing data.

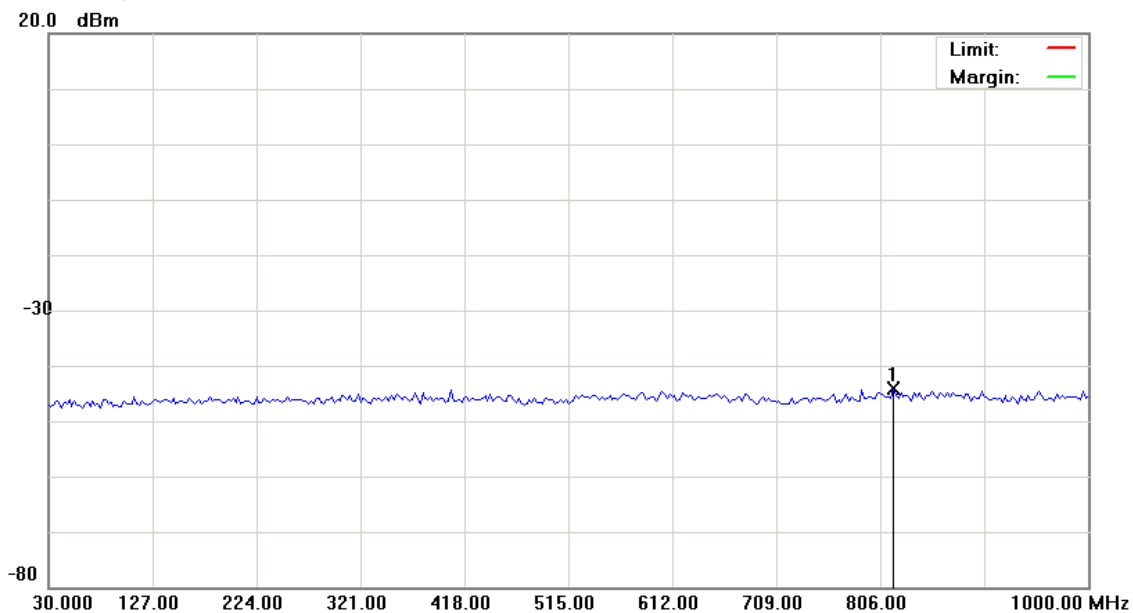


File :WIFI(11g)

Data :#1

Date:2009/2/5

Time: 下午 04:48:16



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0020-E

Mode: WIFI(11g)

Note: 2412MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree
		MHz	dBm	dB	dBm	dBm	dB	cm	degree
1	*	818.1250	-45.22	1.00	-44.22			peak	

*:Maximum data x:Over limit !:over margin



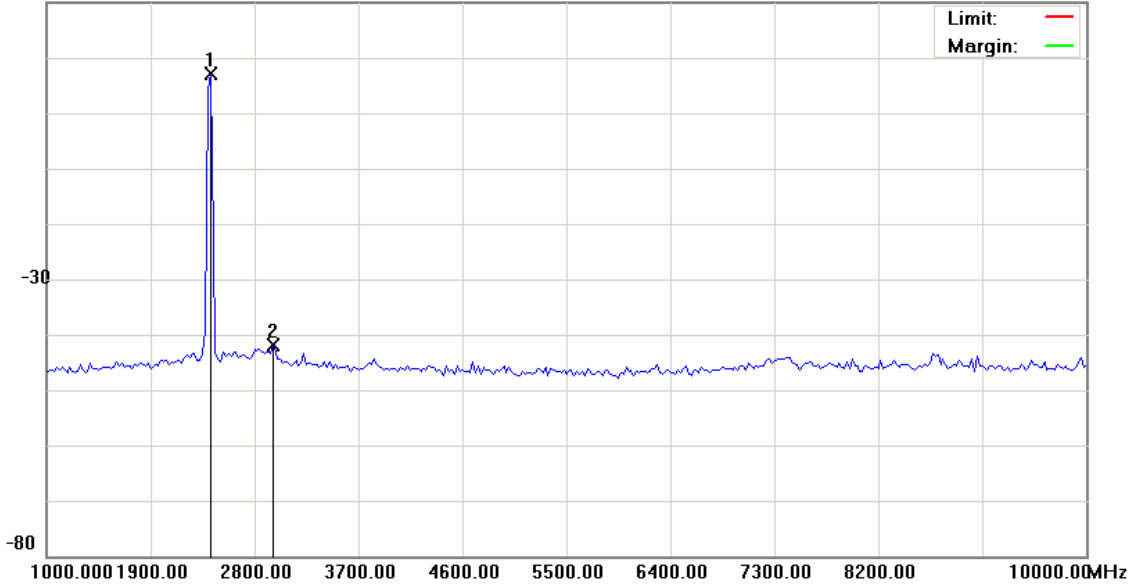
File :WIFI(11g)

Data :#2

Date:2009/2/5

Time: 下午 04:48:30

20.0 dBm



Site: site #1

Limit:

EUT:

M/N: 09-0020-E

Mode: WIFI(11g)

Note: 2412MHz

Polarization:

Power: AC 110V/60Hz

Distance:

Temperature: 26 °C

Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2417.500	6.24	1.00	7.24			peak		
2		2957.500	-42.95	1.00	-41.95			peak		

*:Maximum data x:Over limit !:over margin



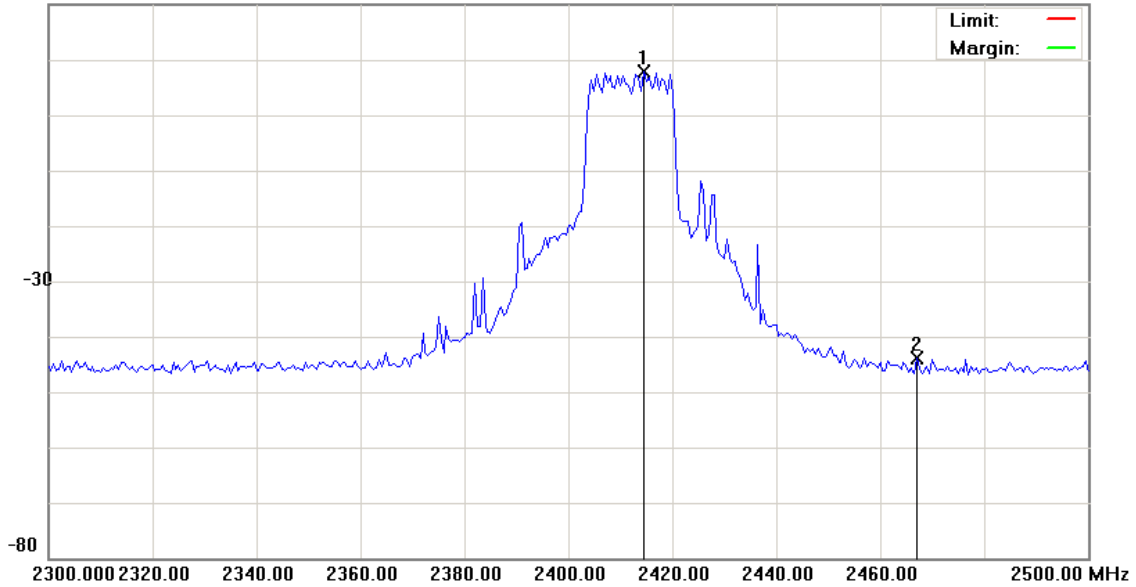
File :WIFI(11g)

Data :#3

Date:2009/2/5

Time: 下午 04:48:44

20.0 dBm



Site: site #1

Limit:

EUT:

M/N: 09-0020-E

Mode: WIFI(11g)

Note: 2412MHz

Polarization:

Power: AC 110V/60Hz

Distance:

Temperature: 26 °C

Humidity: 55 %

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table		
		MHz	dBm	Factor	ment			Height	Degree		
1	*	2414.500	6.85	1.00	7.85			cm	degree	Comment	
2		2467.000	-44.90	1.00	-43.90						

*:Maximum data x:Over limit !:over margin



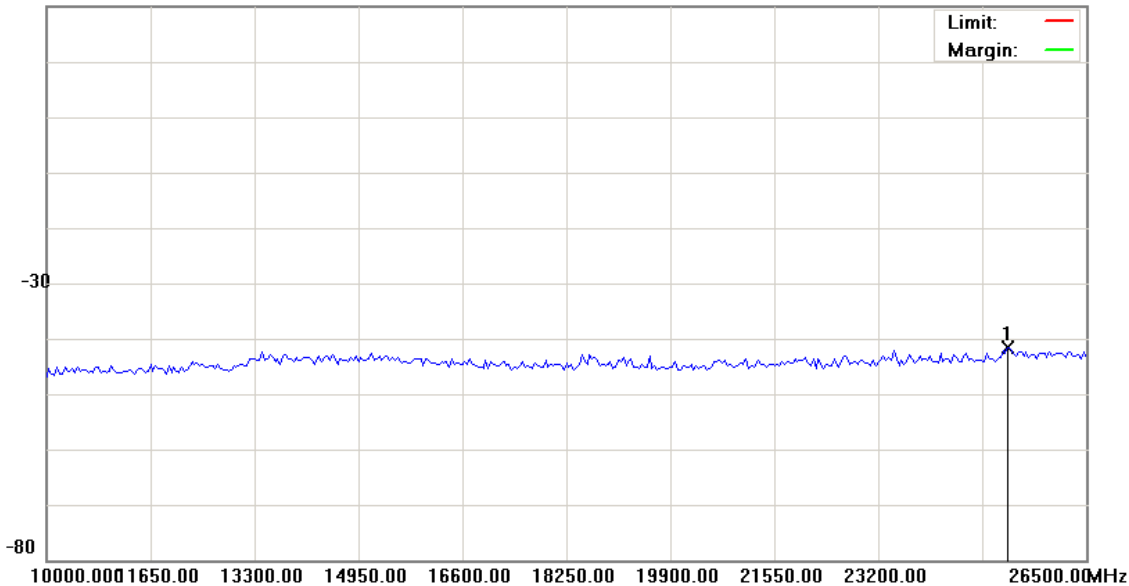
File :WIFI(11g)

Data :#4

Date:2009/2/5

Time: 下午 04:48:58

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0020-E

Mode: WIFI(11g)

Note: 2412MHz

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	25262.500	-42.65	1.00	-41.65			peak		

*:Maximum data x:Over limit !:over margin



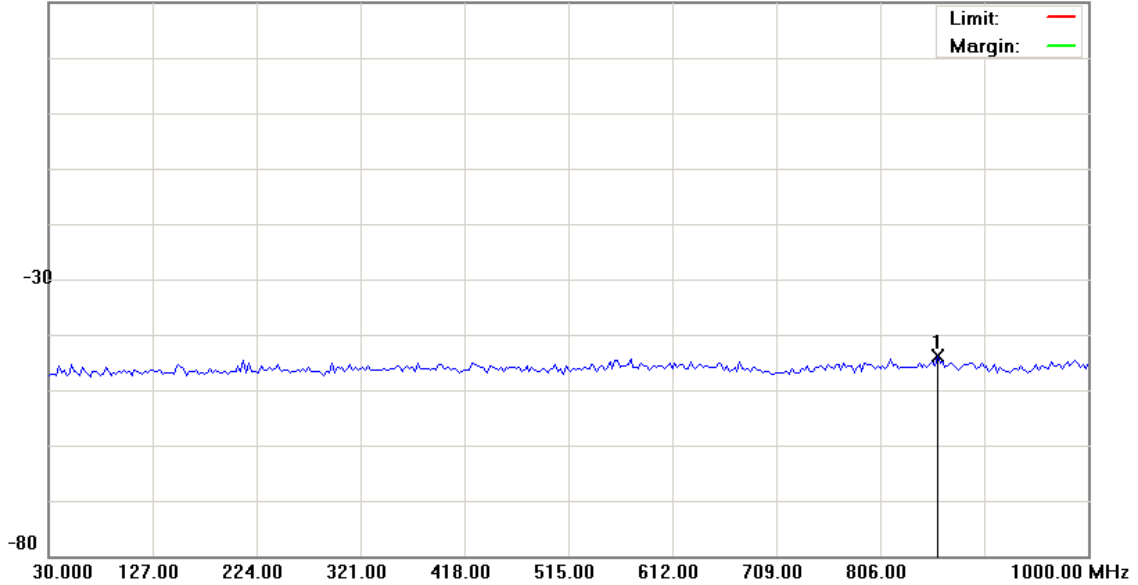
File :WIFI(11g)

Data :#5

Date:2009/2/5

Time: 下午 04:40:26

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0020-E

Mode: WIFI(11g)

Note: 2437MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree
		MHz	dBm	dB	dBm	dBm	dB	cm	degree
1	*	859.3500	-44.94	1.00	-43.94			peak	

*:Maximum data x:Over limit !:over margin



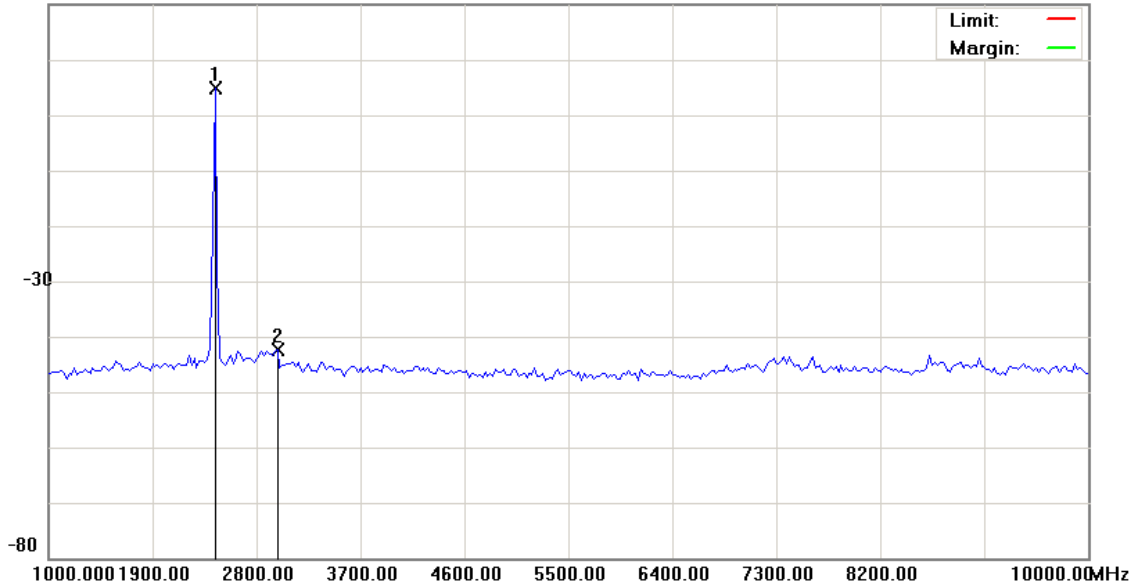
File :WIFI(11g)

Data :#6

Date:2009/2/5

Time: 下午 04:40:40

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0020-E

Mode: WIFI(11g)

Note: 2437MHz

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2440.000	3.78	1.00	4.78			peak		
2		2980.000	-43.30	1.00	-42.30			peak		

*:Maximum data x:Over limit !:over margin



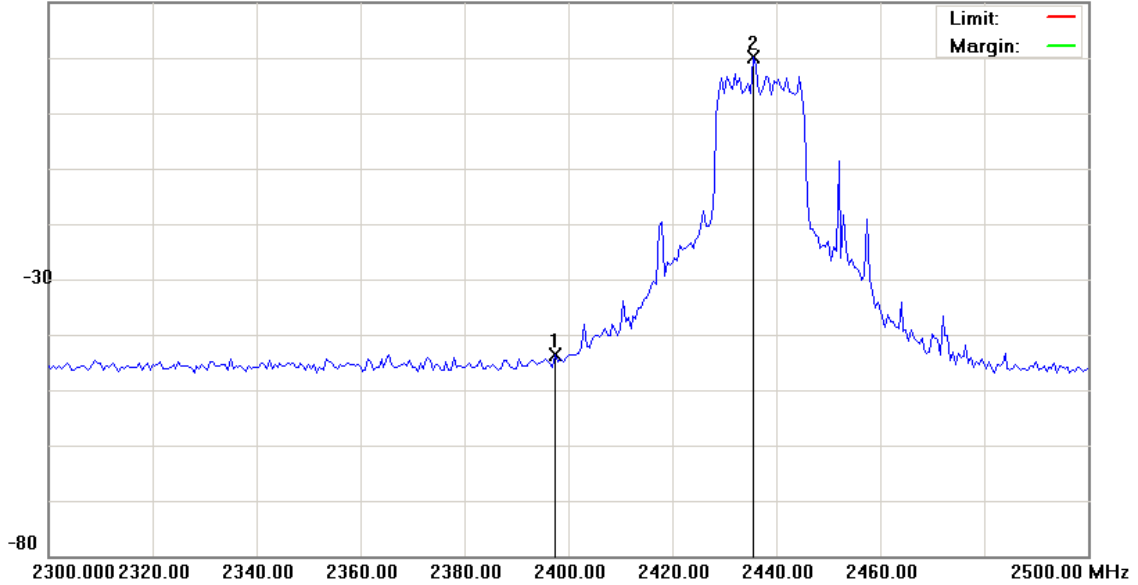
File :WIFI(11g)

Data :#7

Date:2009/2/5

Time: 下午 04:40:53

20.0 dBm



Site: site #1

Limit:

EUT:

M/N: 09-0020-E

Mode: WIFI(11g)

Note: 2437MHz

Polarization:

Power: AC 110V/60Hz

Distance:

Temperature: 26 °C

Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2397.500	-44.64	1.00	-43.64			peak		
2	*	2435.500	9.13	1.00	10.13			peak		

*:Maximum data x:Over limit !:over margin



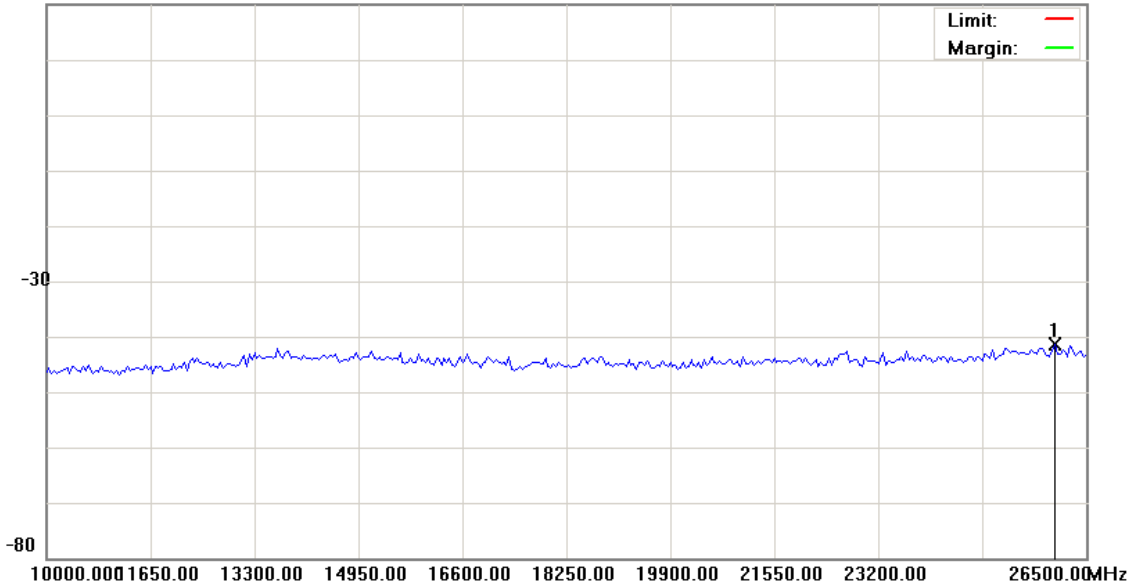
File :WIFI(11g)

Data :#8

Date:2009/2/5

Time: 下午 04:41:07

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0020-E

Mode: WIFI(11g)

Note: 2437MHz

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	26005.000	-42.37	1.00	-41.37			peak		

*:Maximum data x:Over limit !:over margin



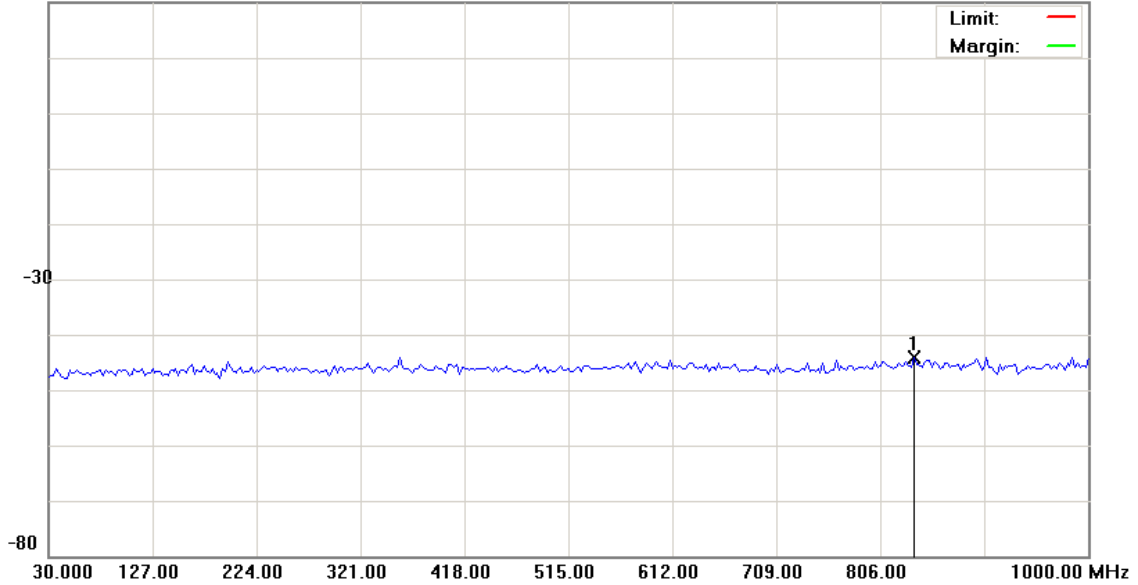
File :WIFI(11g)

Data :#9

Date:2009/2/5

Time: 下午 03:05:18

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0020-E

Mode: WIFI(11g)

Note: 2462MHz

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	837.5250	-45.05	1.00	-44.05			peak		

*:Maximum data x:Over limit !:over margin



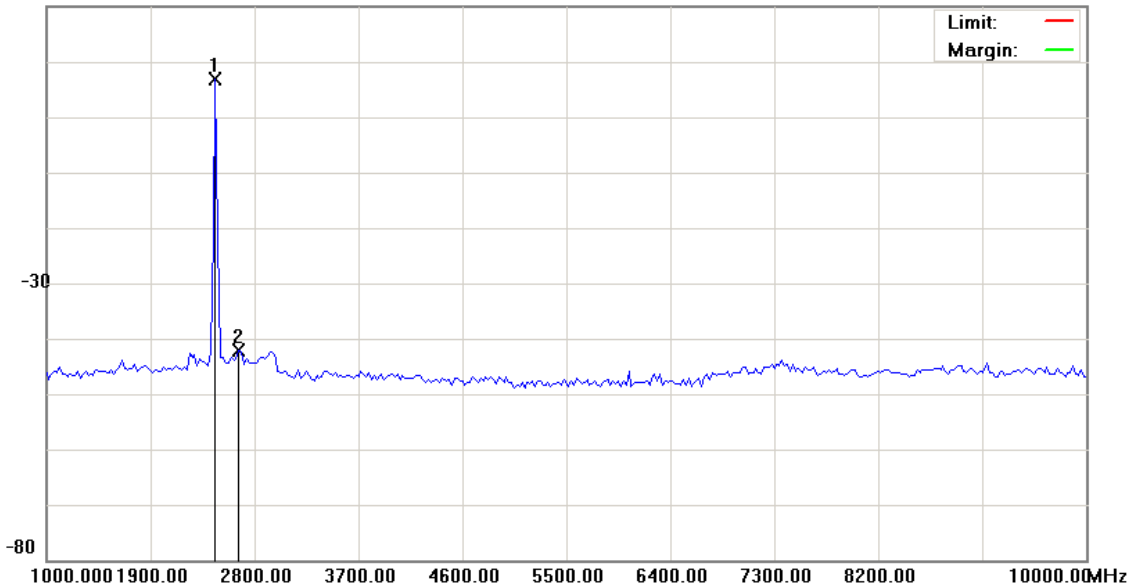
File :WIFI(11g)

Data :#10

Date:2009/2/5

Time: 下午 03:05:32

20.0 dBm



Site: site #1

Limit:

EUT:

M/N: 09-0020-E

Mode: WIFI(11g)

Note: 2462MHz

Polarization:

Power: AC 110V/60Hz

Distance:

Temperature: 26 °C

Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2462.500	5.86	1.00	6.86					peak
2		2665.000	-43.03	1.00	-42.03					peak

*:Maximum data x:Over limit !:over margin



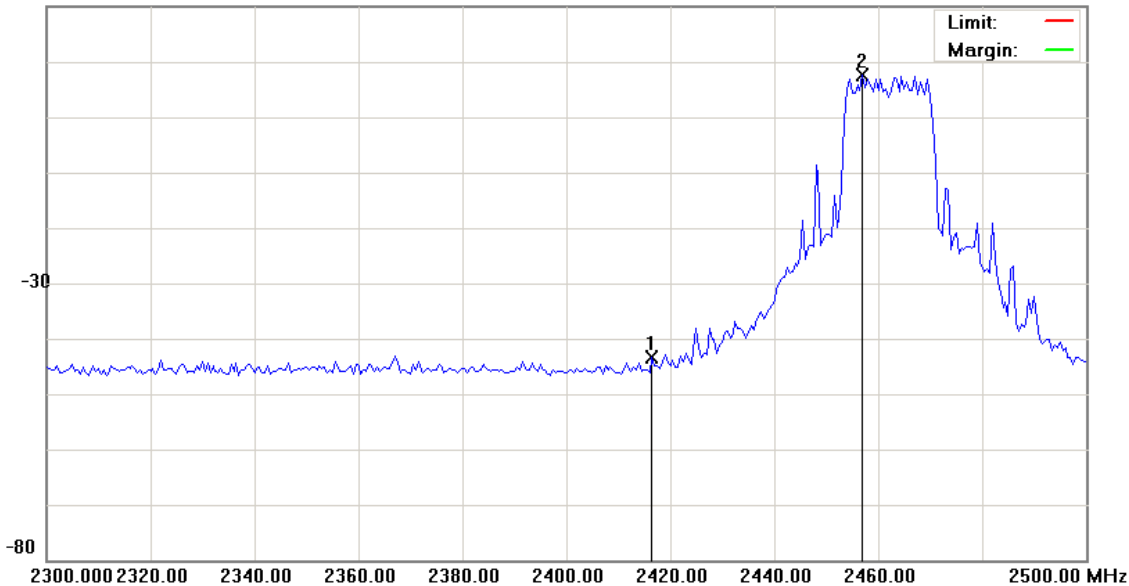
File :WIFI(11g)

Data :#11

Date: 2009/2/5

Time: 下午 03:05:45

20.0 dBm



Site: site #1

Limit:

EUT:

M/N: 09-0020-E

Mode: WIFI(11g)

Note: 2462MHz

Polarization:

Power: AC 110V/60Hz

Distance:

Temperature: 26 °C

Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2416.500	-44.32	1.00	-43.32			peak		
2	*	2457.000	6.56	1.00	7.56			peak		

*:Maximum data x:Over limit !:over margin



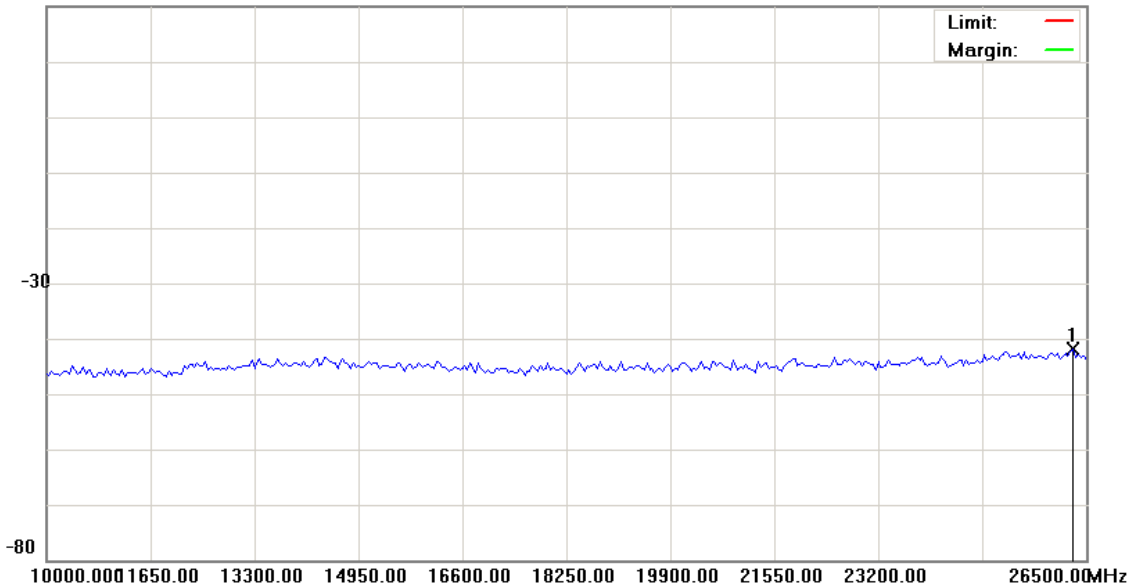
File :WIFI(11g)

Data :#12

Date:2009/2/5

Time: 下午 03:05:59

20.0 dBm



Site: site #1

Polarization:

Temperature: 26 °C

Limit:

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N: 09-0020-E

Mode: WIFI(11g)

Note: 2462MHz

No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	26293.750	-42.90	1.00	-41.90			peak		

*:Maximum data x:Over limit !:over margin

8. Band Edges Requirements

8.1 Test Condition & Setup:

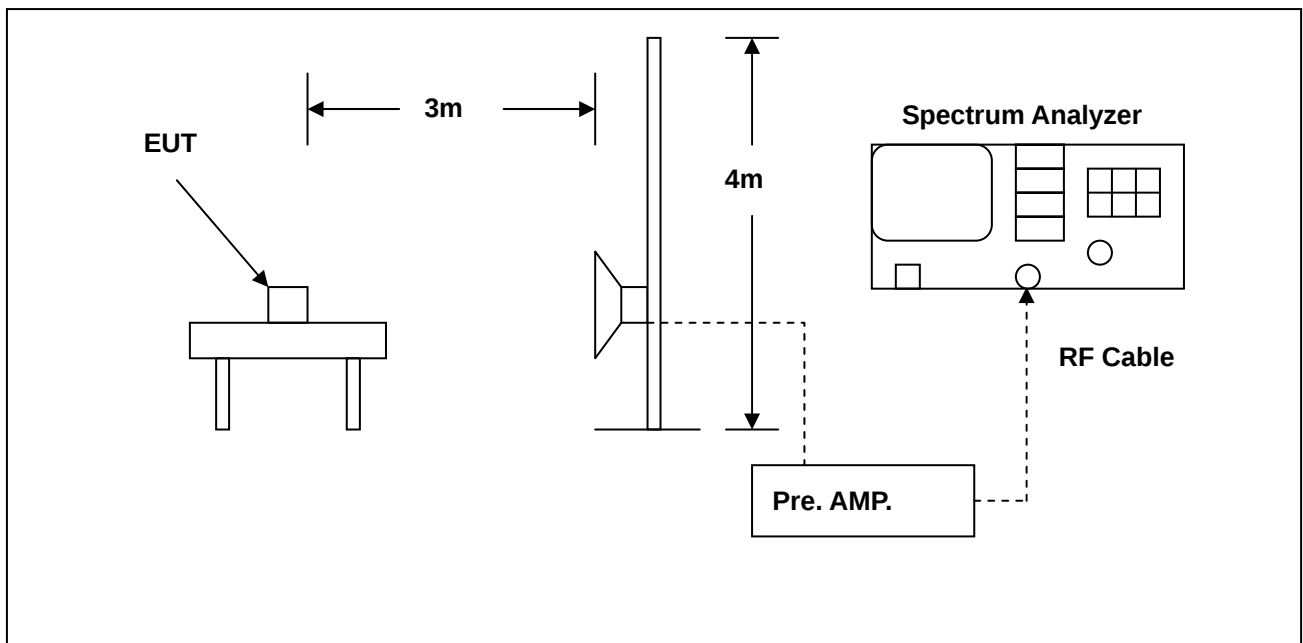
The EUT was setup to ANSI C63.4, 2003; tested to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The emissions on the harmonics frequencies, the limits, and the margin of compliance are presented. These tests were made when the transmitter was in full radiated power. The additional test was performed to show compliance with the requirement at the band-edge frequency 2483.5 MHz and up to 2500 MHz and at 2390.0 MHz.

The transmitter was configured with the worst case antenna and setup to transmit at the highest channel. Then the field strength was measured at 2483.5 MHz.

The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel. Then the field strength was measured at 2390.0 MHz. These tests were performed at 4 different bit rates.

8.2 Test Instruments Configuration:





8.3 Test Equipment List:

Describe	Manufacturer	Model	Serial Number	Calibration	
				Cal. Date	Due Date
Spectrum Analyzer	Agilent	E4408B	MY45107753	Jun. 05, 2008	Jun. 05, 2009
Pre Amplifier	Agilent	8449B	3008A02237	Jun. 03, 2008	Jun. 03, 2009
Horn Antenna	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	Jun. 26, 2008	Jun. 26, 2009



8.4 Test Result:

8.4.1 Test Result:

Applicant : Applied Wireless Identifications Group Inc.
Model No : HH-6600
EUT : RFID Handheld Terminal
Test Mode : 802.11b Low CH & High CH
Test Date : 02/03/2009

Test Graphs See next page.

Notes:

1. Margin= Amplitude - Limits
2. Height of table for EUT placed: 0.8 Meter.
3. ANT= Antenna height.
4. Duty= Duty cycle correction factor.
5. Dis= Distance extrapolation factor.
6. Amplitude= Reading Amplitude – Amplifier gain + Cable loss + Antenna factor
(Auto calculate in spectrum analyzer)
7. Actual Amp= Amplitude – Duty – Dis.

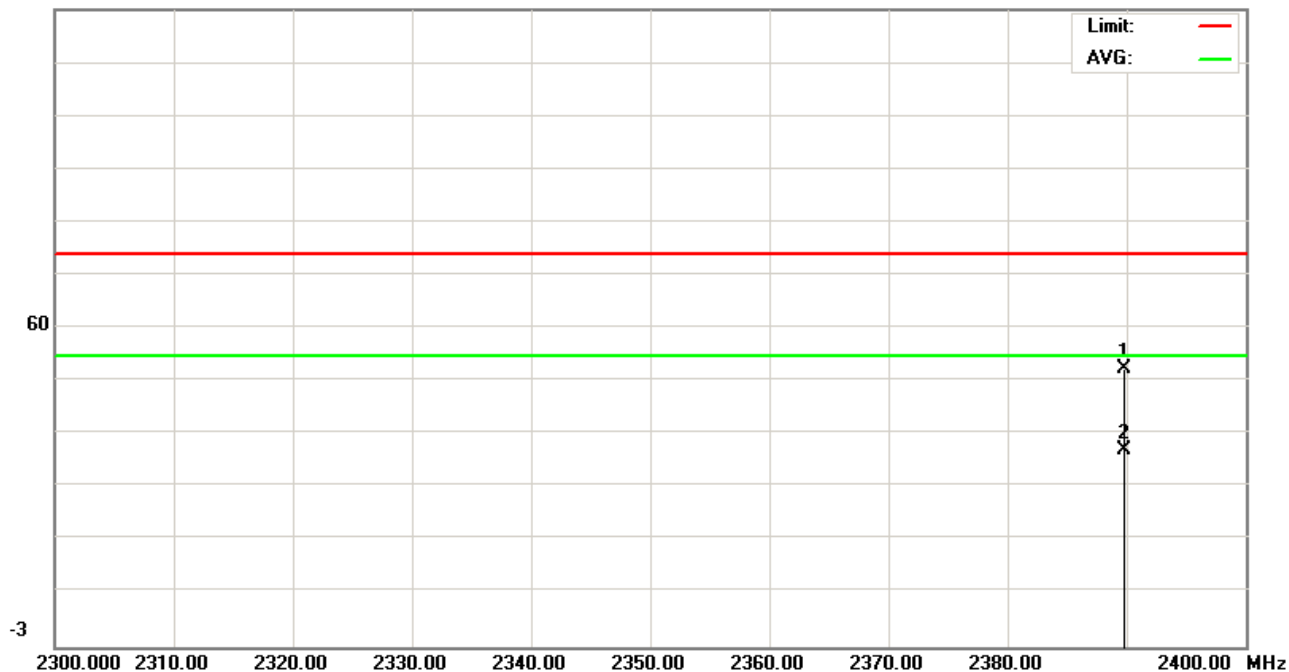


Data :#1

Date: 2009/02/03

Time: 下午 10:58:52

122.0 dBuV



Site site#1

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0020-E

Mode: BAND EDGE(11b)

Note: CH01(2412MHz) , Antenna 100cm

2.7G-10G AV Scan

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2389.800	51.51	0.16	51.67	74.00	-22.33	peak		
2	*	2389.800	35.31	0.16	35.47	54.00	-18.53	AVG		

*:Maximum data x:Over limit !:over margin

●Reference Only

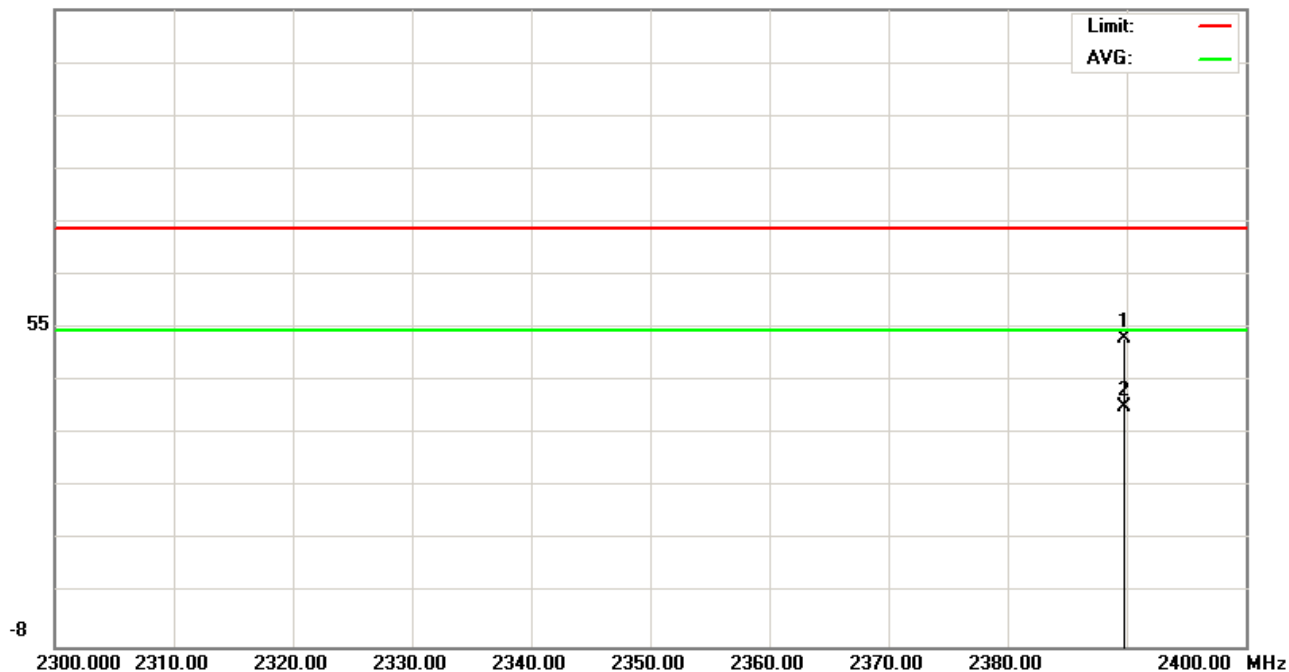


Data :#5

Date: 2009/02/03

Time: 下午 11:28:46

117.0 dBuV



Site site#1

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0020-E

Mode: BAND EDGE(11b)

Note: CH01(2412MHz) , Antenna 149cm

2.7G-10G AV Scan

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2389.800	52.24	0.16	52.40	74.00	-21.60	peak		
2	*	2389.800	38.97	0.16	39.13	54.00	-14.87	AVG		

*:Maximum data x:Over limit !:over margin

●Reference Only

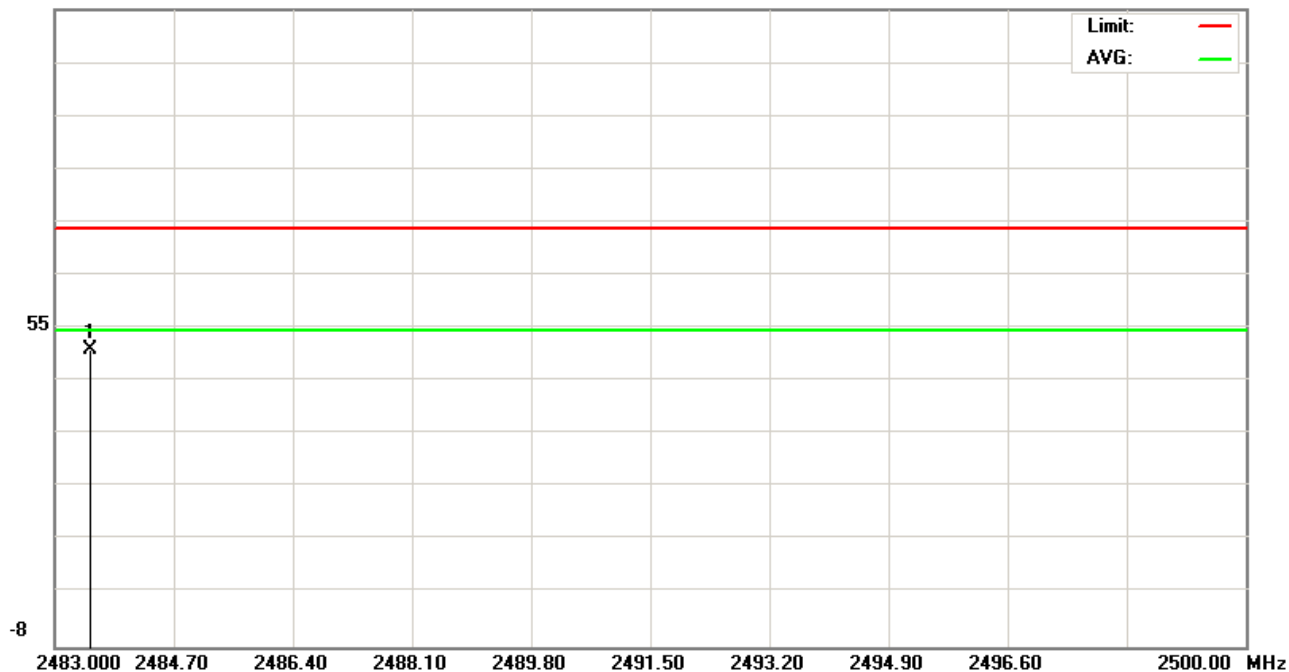


Data :#3

Date: 2009/02/03

Time: 下午 11:18:54

117.0 dBuV



Site site#1

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0020-E

Mode: BAND EDGE(11b)

Note: 等2分鐘工程模式執行完畢，約30秒~90秒EUT螢幕燈熄滅，執行測試。

2.7G-10G AV Scan

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree
1	*	2483.510	50.06	0.25	50.31	74.00	-23.69	peak		Comment

*:Maximum data x:Over limit !:over margin

●Reference Only

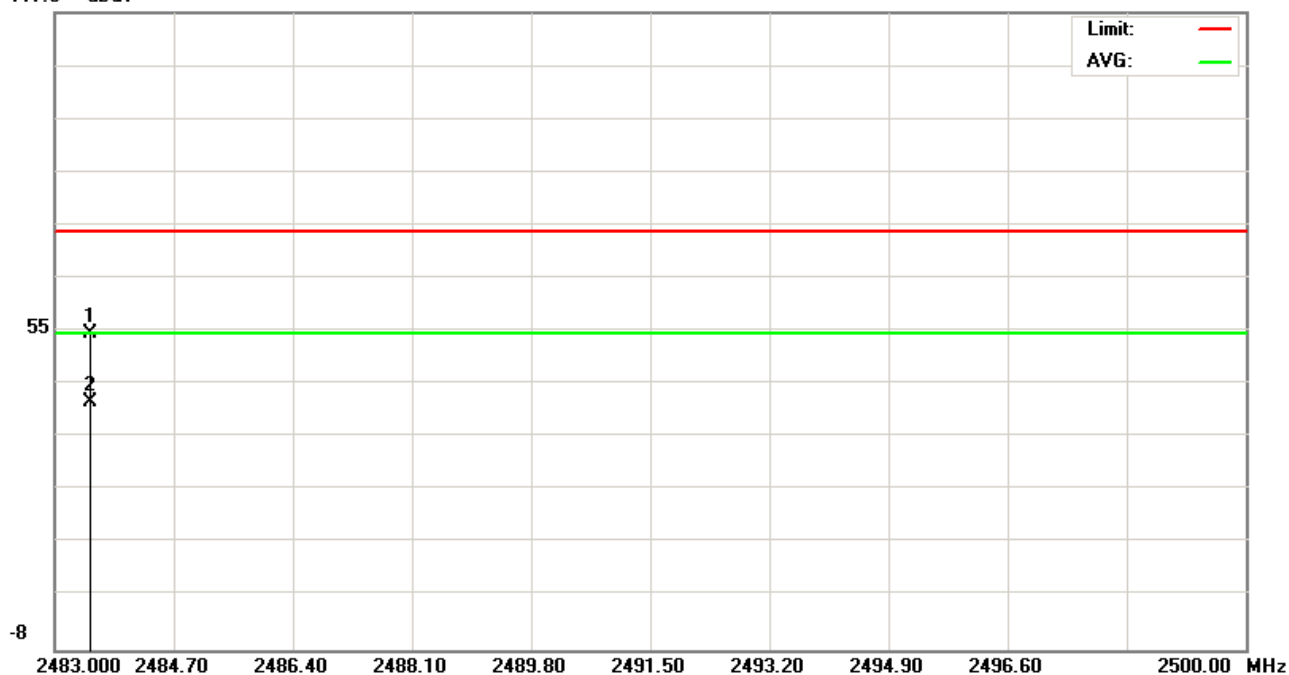


Data :#7

Date: 2009/02/03

Time: 下午 11:40:12

117.0 dBuV



Site site#1

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0020-E

Mode: BAND EDGE(11b)

Note: 等2分鐘工程模式執行完畢，約30秒~90秒EUT螢幕燈熄滅，執行測試。

2.7G-10G AV Scan

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2483.510	53.65	0.25	53.90	74.00	-20.10	peak		
2	*	2483.510	40.33	0.25	40.58	54.00	-13.42	AVG		

*:Maximum data x:Over limit !:over margin

●Reference Only



8.4.2 Test Result:

Applicant : Applied Wireless Identifications Group Inc.
Model No : HH-6600
EUT : RFID Handheld Terminal
Test Mode : 802.11g Low CH & High CH
Test Date : 02/03/2009

Test Graphs See next page.

Notes:

1. Margin= Amplitude - Limits
2. Height of table for EUT placed: 0.8 Meter.
3. ANT= Antenna height.
4. Duty= Duty cycle correction factor.
5. Dis= Distance extrapolation factor.
6. Amplitude= Reading Amplitude – Amplifier gain + Cable loss + Antenna factor
(Auto calculate in spectrum analyzer)
7. Actual Amp= Amplitude – Duty – Dis.

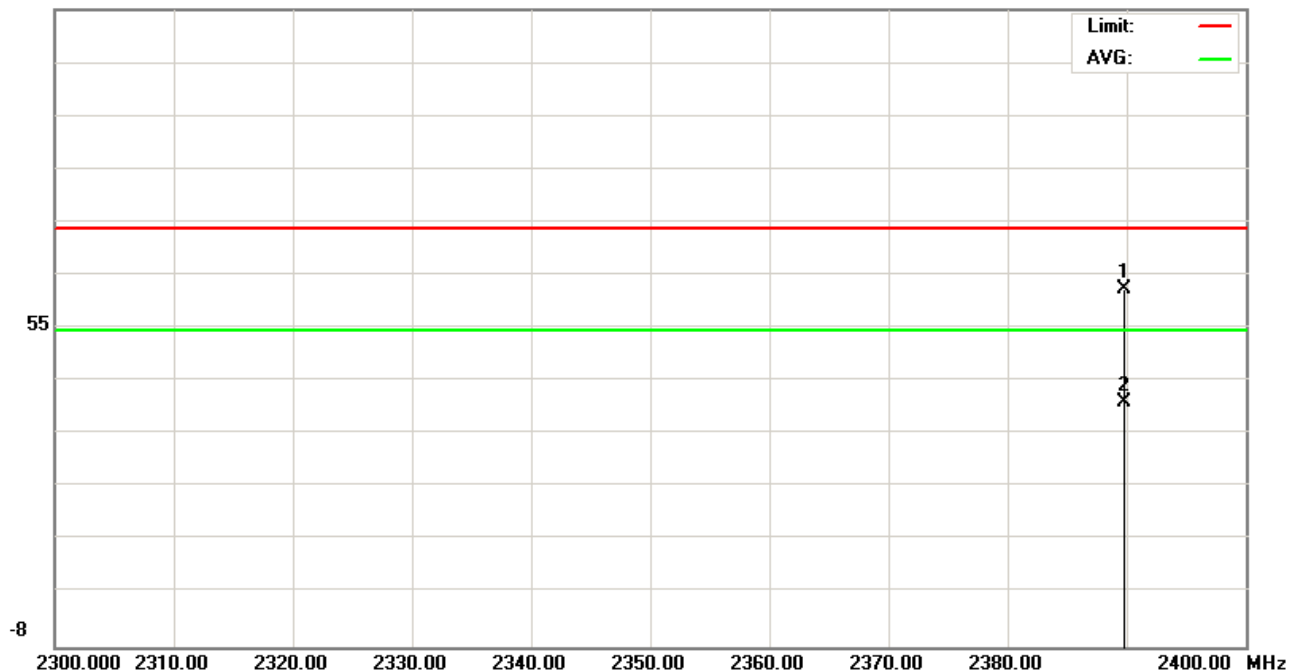


Data :#1

Date: 2009/02/04

Time: 下午 10:17:39

117.0 dBuV



Site site#1

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0020-E

Mode: BAND EDGE(11g)

Note: CH01(2412MHz) , Antenna100cm , NB01

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2389.800	62.01	0.16	62.17	74.00	-11.83	peak		
2		2389.800	39.92	0.16	40.08	54.00	-13.92	AVG		

*:Maximum data x:Over limit !:over margin

●Reference Only

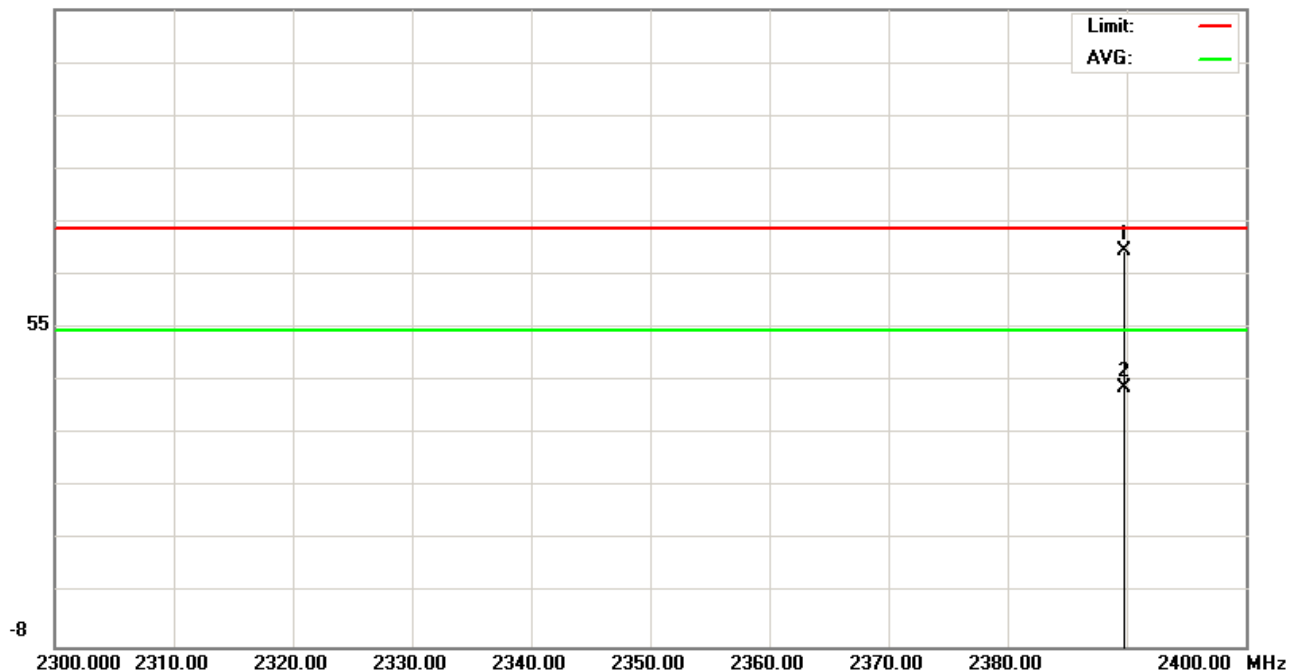


Data :#5

Date: 2009/02/04

Time: 上午 01:36:35

117.0 dBuV



Site site#1

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0020-E

Mode: BAND EDGE(11g)

Note: CH01(2412MHz) , Antenna119cm , NB01

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2389.800	69.45	0.16	69.61	74.00	-4.39	peak		
2		2389.800	42.51	0.16	42.67	54.00	-11.33	AVG		

*:Maximum data x:Over limit !:over margin

●Reference Only

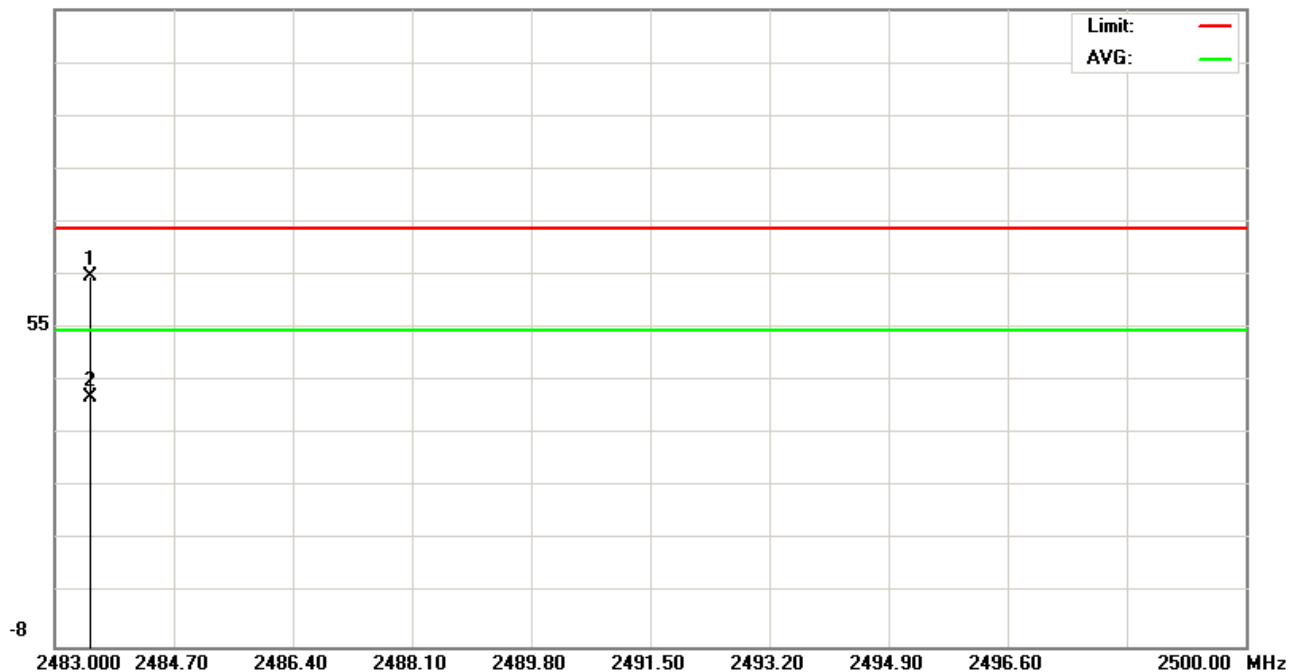


Data :#3

Date: 2009/02/04

Time: 下午 09:16:06

117.0 dBuV



Site site#1

Polarization: **Vertical**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0020-E

Mode: BAND EDGE(11g)

Note: CH11(2462MHz) , Antenna100cm , NB01

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	2483.510	64.36	0.25	64.61	74.00	-9.39	peak			
2		2483.510	40.78	0.25	41.03	54.00	-12.97	AVG			

*:Maximum data x:Over limit !:over margin

●Reference Only

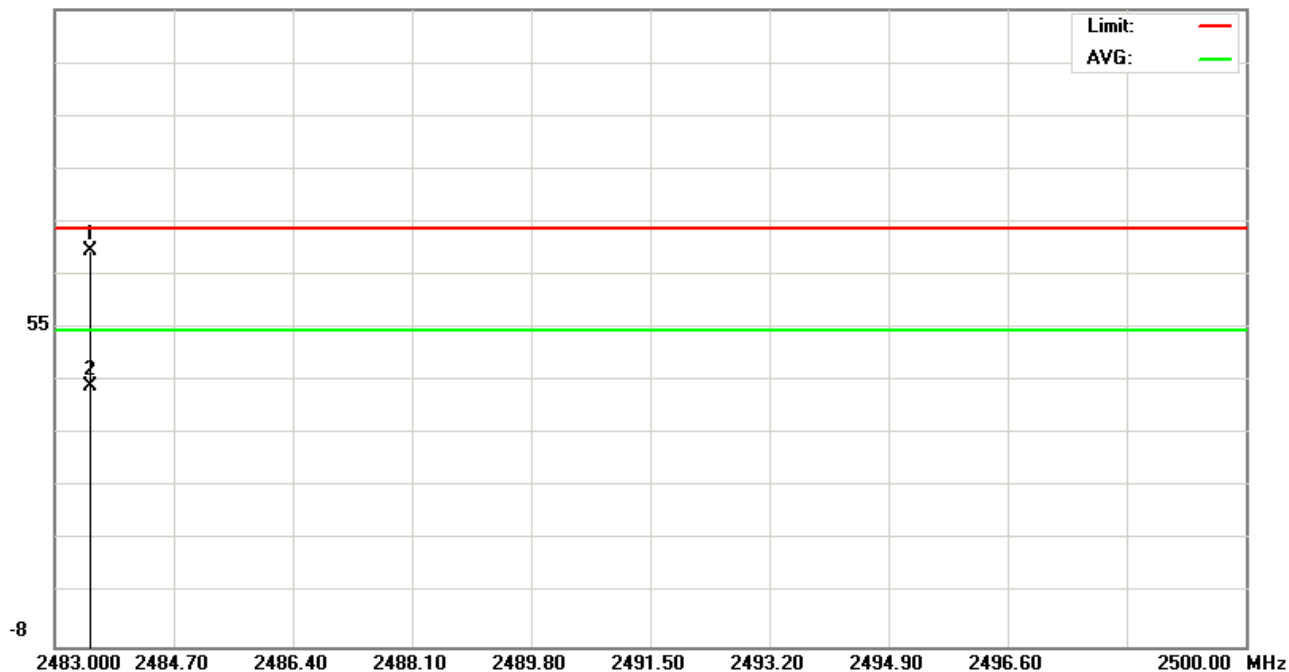


Data :#7

Date: 2009/02/04

Time: 上午 02:01:58

117.0 dBuV



Site site#1

Polarization: **Horizontal**

Temperature: 22 °C

Limit: FCC part 15 (PK)

Power:

Humidity: 60 %

EUT:

Distance: 3m

M/N: 09-0020-E

Mode: BAND EDGE(11g)

Note: CH11(2462MHz) , Antenna149cm , NB01

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	2483.510	69.26	0.25	69.51	74.00	-4.49	peak		
2		2483.510	43.00	0.25	43.25	54.00	-10.75	AVG		

*:Maximum data x:Over limit !:over margin

●Reference Only



9. Antenna Requirements

9.1 Standard Applicable:

For intentional device, according to 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

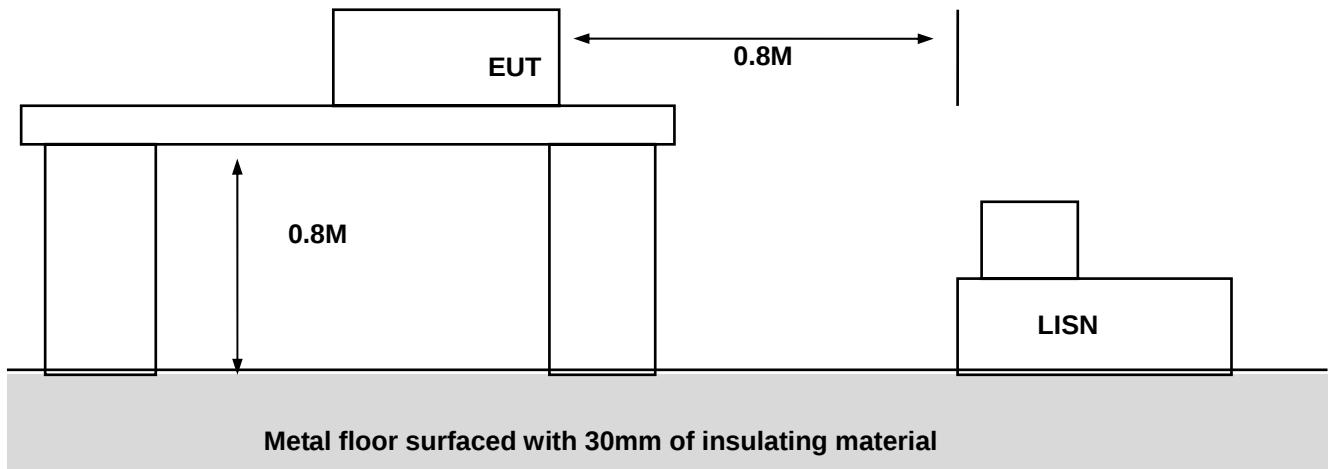
And According to 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

9.2 Antenna Connector Construction

The antenna used in this product is internal PCB antenna. And the maximum Gain of this antenna is only 0 dBi.

Appendix A - EUT Test SETUP

MEASUREMENT OF POWER LINE CONDUCTED RFI VOLTAGE



MEASUREMENT OF RADIATED EMISSION

